KOMATSU

P&H

Parts Manual

Blasthole Drill

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77XR-S-P-MM-EN-0005

TABLE OF CONTENTS

Description	Page
PREFACE	2
PARTS MANUAL INSTRUCTIONS	3
ABBREVIATIONS	4
REVISION RECORD	5
77003 ROTARY DRILL PARTS MANUAL	
▪ CHASSIS	6
▪ ▪ POWER SKID MODULE	151
▪ CAB AND REAR DECK	215
▪ ▪ OPERATOR CAB	216
▪ LOWER WORKS	288
▪ MAST	306
▪ TOOLS AND SUPPLIES	392
▪ DECAL INSTALLATION, PH77XR	398
77003 ROTARY BLASTHOLE DRILL TECHNICAL DATA MANUAL (LINK)	

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PREFACE

Only use this manual for the serial numbered equipment for which it was prepared.

The Parts Manual is a ready means of identifying parts, assemblies and structures of Komatsu manufactured equipment. It is intended for parts ordering purposes only.

Do not use any parts lists in the Electrical or Technical Data Manual to order parts. Refer to the Parts Manual when you need to order.

Before you order parts, refer to the Komatsu on-line parts catalog database or contact your Komatsu representative for the latest release of this manual. Komatsu is not responsible for the use of older or outdated information.

Only authorized and qualified maintenance and test personnel who have read, and are familiar with, the Equipment Operator Manual should use the Electrical or Technical Data Manual.

For assembling, operating, or maintaining Komatsu machines, consult the separate manuals provided for these purposes, or contact your local Komatsu representative for assistance.

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General

This instruction includes information on the Parts Manuals created for Electric Rope Shovels, Blasthole Drills, Draglines, and Wheel Loaders. These equipment pieces have their own individually prepared Parts Manuals. Because these are electronic reproductions of controlled engineering documents, the documents in this manual are uncontrolled and therefore may not be the latest version, or may have been altered to suit this machine and any field changes applied to it.

Only use the Parts Manual for the serial numbered machine for which it was prepared. Before you order parts, refer to the Komatsu on-line parts catalog database or contact your Komatsu representative for the latest release of this manual.

This Parts Manual is best viewed electronically.

Your Komatsu Service Representative is available to answer your questions and assist you on request.

Manual Structure

This Parts Manual is divided into several major groups outlined in the Table of Contents.

The relationship of individual parts of assemblies or sub-assemblies is identified by a system of indented descriptions. Items indented one space are individual components or sub-assemblies of the complete assembly. If a sub-assembly can be further detailed, these details are linked to a separate detail page, or shown by additional indentions. An indention example would be “TRACKS, Slide” shown below. Since this item is indented three spaces, it indicates that this item is part of the “POWER UNIT” which is part of the larger sub-assembly “POWER UNIT ASSEMBLY”.

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SEAT, OPERATOR - W/O ARMRESTS

Item	Part No.	Description	Qty.
	R109781D1	SEAT, OPERATOR - W/O ARMRESTS	
01		NOT USED	1
02	R93312D8	• COVER, Back Cushion - w/ P&H Logo	1
03		NOT USED	1
04	R93312D10	• KIT, Recliner	1
05	R93312D11	• HANDLE, Recliner Adjustment	1
06	R93312D13	• CONNECTING POINT, Wide Suspension	1
07	R93312D14	• SPRING, Air	1
08	R93312D1	• SUSPENSION, Air	1
09	R93312D2	• SHOCK, Heavy Duty	1
10	R93312D5	• VALVE, Air - Lumbar & Height Control	1
11	R93312D4	• BEZEL, 3 Gang Valve	1
12	R93312D22	• POWER UNIT ASSEMBLY	1
13	R93312D12	• • POWER UNIT	1
13A	NP1000Z17055	• • • TRACKS, Slide	1
14	R93312D3	• • HARNESS, 6-Way	1

EXAMPLE

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15	R93312D21	• • SWITCH, 6-Way	1
16	R93312D7	• COVER, Seat Cushion	1
17		NOT USED	
18	NP1000Z13732	• SWITCH, Toggle - Heater/Massage (Not Shown)	1

If you needed only a “TRACKS, Slide”, you would order part number NP1000Z17055. Ordering “POWER UNIT” would provide you with the “POWER UNIT”, R93312D12 and the “TRACKS, Slide”, NP1000Z17055 which is part of the “POWER UNIT”.

Kits

Experience has shown that the most cost-effective method of repairing certain components is to replace all the wearable parts at one time. When this method of repair is recommended, all wearable parts are assembled into a kit, which is identified by one part number for the complete kit. In order to indicate which parts are contained in the kit, all component parts are illustrated and identified without part numbers.

When individual parts within a kit are shown without a part number, they are not available to order separately.

Quantities

Quantities in this manual are shown as follows:

1. For assemblies, the quantity is the number of assemblies per machine.
2. For piece parts, the quantity is the number of parts per assembly.
3. REF (Reference) in the quantity column shows that the item is not in the assembly. The item referenced can be a part of a different group or assembly. Use the search controls to find the item.

Abbreviations

Effort is made to avoid the use of abbreviations in the Parts Manual. To assist the reader when abbreviations are used, refer to the abbreviations page at the front of this manual for a list of commonly used abbreviations.

Search

Use the Search function in the Menu to identify the location of associated parts by part numbers, part descriptions, page titles, page references, page number, part number/descriptions, etc., throughout this Parts Manual. The search result displays the matching part(s) in ascending order and lists the pages on which the part(s) will appear. The search result also allows you to link directly to the page the item appears on.

More Help

Refer to the documentation located under the Help menu. It contains information that will help you maximize your use of the Parts Manual with the many features offered.

Instructions for Ordering Repair Parts

To help us provide prompt and accurate service, include the following information in each parts order:

1. Purchase Order Number.
2. Model and Serial Number of the machine.
3. Part Number.
4. Part Description.
5. Quantity of each part required.

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6. Complete Shipping Address and Instructions on Method of Shipment.

Confirm all telephone orders in writing. Be sure these orders are marked “Confirmation,” to avoid duplication of orders.

Continuous product improvements often lead to the replacement of part numbers or make part numbers obsolete. The parts you receive may have different part numbers than those shown in the Parts Manual. Refer to your local Komatsu office to reconcile part number identification.

Contact your local Komatsu Service Office to answer your questions and assist you when required.

Supersessions

When viewing your Parts Manual in WebView, superseded parts will appear in parentheses, and will have an Information Icon instead of a shopping cart icon. Click on the Information Icon to view supersession or discontinued information about that part.

Supersessions will not appear in books printed to PDF. When you print a complete manual to PDF, you will receive a link to the supersession manual, which contains all the superseded and discontinued parts.

Inspection of Shipments

Carefully inspect all shipments upon arrival. In the event of loss or damage, do not accept the shipment until the carrier either makes notification on the freight bill, or gives you an inspection report covering said damage or loss. In the event of concealed damage or loss, notify the carrier at once requesting that an inspection be made and damage or loss be acknowledged.

Contacting Product Training and Publications

If you have comments, questions, or suggestions concerning this Parts Manual, we would like to know about them.

Online:
Feedback regarding Parts Manual content can be communicated through the online Parts Manual site by using the Feedback menu item. This functionality is only available through the online Parts Manual site. Refer to the online Parts Manual help documentation for more information about this feature.

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ABBREVIATIONS

Abbreviation	Definition
#	NUMBER; POUND
2POS	2 POSITION
A	AMPERE
A/C	AIR CONDITIONING
AC	ALTERNATING CURRENT
ADJ / ADJ.	ADJUSTABLE; ADJUSTING
AL.	ALUMINUM
ALT	ALTERNATOR
AMB.	AMBIENT
AMP	AMPERE
APPROX.	APPROXIMATE
AR	AS REQUIRED
ASSY / ASSY.	ASSEMBLY
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BARFLAT	FLAT METAL BAR
BATT.	BATTERY
BL	BLACK
BLK.	BLOCK
BLU	BLUE
BRG / BRG.	BEARING
BRK / BRK.	BRAKE
BRKT	BRACKET
BRN	BROWN
BSHG	BUSHING
C	CENTIGRADE
C.E.	COMMUTATOR END
C.F.M.	CUBIC FEET PER MINUTE
CAC	CHARGE AIR COOLING; CHARGE AIR COOLER
CAD.	CADIUM
CAP / CAP.	CAP SCREW; CAPACITOR
CARR	CARRIAGE
CART	CARTRIDGE
CA-WT	CABLE WATERTIGHT
CCD	CHARGE COUPLED DEVICE
CCW	COUNTERCLOCKWISE
CEP	COMPONENT EXCHANGE PROGRAM
CHGING	CHARGING
CIRC BRKR	CIRCUIT BREAKER
CNTRL	CONTROL

ABBREVIATIONS

Abbreviation	Definition
COND	CONDUCTOR
CONT	CONTROL
CONV / CONV.	CONVERTER
CPRS	COMPRESSION; COMPRESSOR
CS	COUNTERSUNK
CSK.	COUNTERSUNK
CSKH	COUNTERSUNK HEAD
CTR	CENTER; CONTROLLER
CTS	COMPONENT TRACKING SYSTEM
CUYD	CUBIC YARD
CW	CLOCKWISE
CYL	CYLINDER
DC	DIRECT CURRENT
DE	DRIVE END
DEF	DIESEL EXHAUST FLUID
DEG / deg.	DEGREE
DIA.	DIAMETER
DIFF	DIFFERENTIAL
DPDT	DOUBLE POLE, DOUBLE THROW
DR.	DRIVER
DRILL	DRILLED
DWG.	DRAWING
E.L.	ELECTROLUMINESCENT
EA.	EACH
EL	ELBOW
ELEC	ELECTRICAL
ELEM	ELEMENT
EM	ELECTROMECHANICAL
EMGCY	EMERGENCY
ENG / ENG.	ENGINE
E-STOP	EMERGENCY STOP
EXH.	EXHAUST
EXT / EXT.	EXTERNAL
F	FAHRENHEIT
F.H.	FLAT HEAD
FIL HD	PHILISTER HEAD
FJ	FEMALE J.I.C. (HYDRAULIC FITTING)
FLEX	FLEXIBLE
FLTR	FILTER
FO	FEMALE O-RING

ABBREVIATIONS

Abbreviation	Definition
FOFS	FEMALE FACE SEAL
FOPS	FALLING OBJECT PROTECTION STRUCTURE
FP	FEMALE PIPE
FREQ.	FREQUENCY
FRIC	FRICTION
FT / FT.	FOOT
FTG	FITTING
GA	GAUGE
GAL	GALLON
GB	GIGABYTE
GEN.	GENERATOR
GET	GROUND ENGAGEMENT TOOLING
GL.	GALLON
GPM	GALLONS PER MINUTE
GR.	GRADE
GRN	GREEN
GRN/YEL	GREEN/YELLOW
GRY	GRAY
GUI	GRAPHIC USER INTERFACE
HD / HD.	HEAD
HDMI	HIGH-DEFINITION MULTIMEDIA INTERFACE
HEL	HELICAL
HEX	HEXAGON; HEXAGONAL
HHCS	HEX HEAD CAP SCREW
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HST	HOIST
HV	HIGH VOLTAGE
HX	HEXAGONAL
HYD / HYD.	HYDRAULIC
I/O	INPUT/OUTPUT
ID / I.D.	INSIDE DIAMETER; INSIDE DIMENSION
ILL	ILLUMINATED
IN / IN.	INCHES
IND	INDEPENDENT; INDUCTION
INS.	INSULATED
INST	INSTALL; INSTALLATION
INSTL	INSTALL; INSTALLATION
INT	INTERMEDIATE; INTERNAL
km	KILOMETERS

ABBREVIATIONS

Abbreviation	Definition
KMAP	KOMATSU MINING ANALYTICS PLATFORM
L.F.	LEFT FRONT
L.R.	LEFT REAR
LB.	POUND
LBS	POUNDS
LED	LIGHT EMITTING DIODE
LG	LONG
LH / L.H.	LEFT HAND
LRG.	LARGE
LUBE	LUBRICANT; LUBRICATION
LVCC	LOW VOLTAGE CONTROL CABINET
LW	LOCK WASHER
LWR	LOWER
m	METER
M.P.H.	MILES PER HOUR
MACH	MACHINE
MAG.	MAGNETIC
MAN	MANUAL
MAX.	MAXIMUM
MCC	MOTOR CONTROL CABINET; MAIN CONTROL CABINET
MECH	MECHANICAL
MED	MEDIUM
MF	MICRO FARAD
MFD	MICRO FARAD
MFLD	MANIFOLD
MICROF	MICRO FARAD
MICROH	MICRO HENRIES
MIN.	MINIMUM; MINUTE
MINEAIR	MINE AIR SYSTEMS
MJ	MALE J.I.C. (HYDRAULIC FITTING)
MLC	MINE LOGIC CONTROLLER
MLH	MILLI HENRIES
mm	MILLIMETER
MM	METRIC MALE (Hydraulic Fitting)
MMO	METRIC MALE STRAIGHT THREAD O-RING
MO	MALE O-RING
MOD	MODEL; MODIFIED; MODIFICATION
MOFS	MALE FACE SEAL
MOM	MOMENTARY
MOV	METAL OXIDE VARISTOR

ABBREVIATIONS

Abbreviation	Definition
MP	MALE PIPE
MTG	MOUNTING
N.P.N.	NO PART NUMBER
NC	NATIONAL COARSE
NC / N.C.	NORMALLY CLOSED
NDE	NON-DRIVE END
NEG / NEG.	NEGATIVE
NF	NATIONAL FINE
NO / N.O.	NORMALLY OPEN
NO.	NUMBER
NPT	NATIONAL PIPE THREAD
NS	NOT SHOWN
NSS	NOT SOLD SEPARATELY; NOT SERVICED SEPARATELY
NYL	NYLON
O.D.E.	OPPOSITE DRIVE END
OD / O.D.	OUTSIDE DIAMETER; OUTSIDE DIMENSION
OGL	OPEN GEAR LUBE
ORN	ORANGE
OUT	OUTLET
OZ.	OUNCE
P.E.	PINION END
P/N	PART NUMBER
PDT	PUMP DRIVE TRANSMISSION
PF	PICO FARAD
PFD	PICO FARAD
PH / P.H.	PAN HEAD
PHL	PHILIPS HEAD
PLC	PROGRAMMABLE LOGIC CONTROLLER
PN	PAN; PART NUMBER
POS / POS.	POSITION; POSITIVE
POT.	POTENTIOMETER
PRESS / PRESS.	PRESSURE
PRIM	PRIMARY
PSI	POUNDS PER SQUARE INCH
PT / PT.	POINT
PTZ	PAN-TILT-ZOOM
PUR	PURCHASED; PURPLE
QTY.	QUANTITY
QUAD	QUADRANGLE
R.F.	RIGHT FRONT

ABBREVIATIONS

Abbreviation	Definition
R.R.	RIGHT REAR
RAD.	RADIATOR
RCV	RESISTIVE/CAPACITIVE/INDUCTIVE
RD.	ROUND
RECT.	RECTIFIER
REF	REFERENCE
RES	RESISTANT
RET / RET.	RETAINER
RH / R.H.	RIGHT HAND
RLR	ROLLER
ROPS	ROLL OVER PROTECTION STRUCTURE
ROT	ROTARY
RPM	REVOLUTIONS PER MINUTE
RPT	ROTOR POSITION TRANSDUCER
RR	RIGHT REAR
RSVR	RESERVOIR
RTC	ROOM TEMPERATURE CURE
RTD	RESISTANCE TEMPERATURE DETECTOR
RTV	ROOM TEMPERATURE VULCANIZING (SEALANT)
S.H.	SOCKET HEAD
S.S.	STAINLESS STEEL
SEC	SEQUENTIAL EVENTS CONTROLLER; STANDARD ELECTRIC CONTROLLER
SEC / SEC.	SECONDARY
SECT.	SECTION
SECTN	SECTION
SF	SPLIT FLANGE
SHCS	SOCKET HEAD CAP SCREW
SHRK CLR	SHRINK CLEAR
SKT.	SOCKET
SM.	SMALL
SOC	SOCKET
SOC HD	SOCKET HEAD
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
SQ.	SQUARE
SR	SWITCHED RELUCTANCE
SS	STAINLESS STEEL
ST.	STREET
STD.	STANDARD
STR / STR.	STRAIGHT; STREET; STRUCTURE

ABBREVIATIONS

Abbreviation	Definition
STRG	STEERING
SUC	SUCTION
SW.	SWITCH
SWV	SWIVEL
T	TAPER; TOOTH
T/M	TRACTION MOTOR
TACH.	TACHOMETER
TEMP / TEMP.	TEMPERATURE
TERM / TERM.	TERMINAL
THD.	THREAD
THHN	THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED
TNDM.	TANDEM
TRANS	TRANSMISSION
TRF.	TRANSFORMER
UNC	UNIFIED NATIONAL COARSE
UNF	UNIFIED NATIONAL FINE
UNINS.	UNINSULATED
UPR	UPPER
UPS	UNINTERRUPTIBLE POWER SUPPLY
USB	UNIVERSAL SERIAL BUS
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
VDC	VOLTS DIRECT CURRENT
VR	VOLTAGE REGULATOR
W	WATT
W/	WITH
W/O	WITHOUT
WD	WIDE
WHT	WHITE
WP	WEATHER PROOF
WPR	WIPER
XFMR	TRANSFORMER
XMISSION	TRANSMISSION
YD	YARD

REVISION RECORD

Version	Revision Description	Author	Date
0000	Initial Release	CM	04/21
0001	Updated Drill Automation Control Panel. Added PDT Serviceable Components. Update Battery Cabinet Install. Add Battery Cab Decals. Updated ABBR page. Dust Curtain Actuator Obsolescence.	GRK	08/23
0002	Updates Engine Cable Install, Chassis TOC; Added Mast Pin Lock, PDT Cooler Routings Install; Corrected Revision page, Power Unit Module, Op Cab Module	GRK	10/24
0003	Added Rear Deck Egress Ladder; Updated Engine Cable Install, Rear Deck Main Stair Install, Angle Mast Dust Containment, Main Air Install; Removed Rear Deck Camera, Cab Heater Coolant Pump Kit	GRK	12/24
0004	Adds 300gal Tank Install, Illustration for Compressor Installation, Compressor Assembly; Updates Breakout Raise Cyl Install, Various Hardware Updates.	GRK	05/25
0005	Updates covers and Revision Records.	GRK	07/25

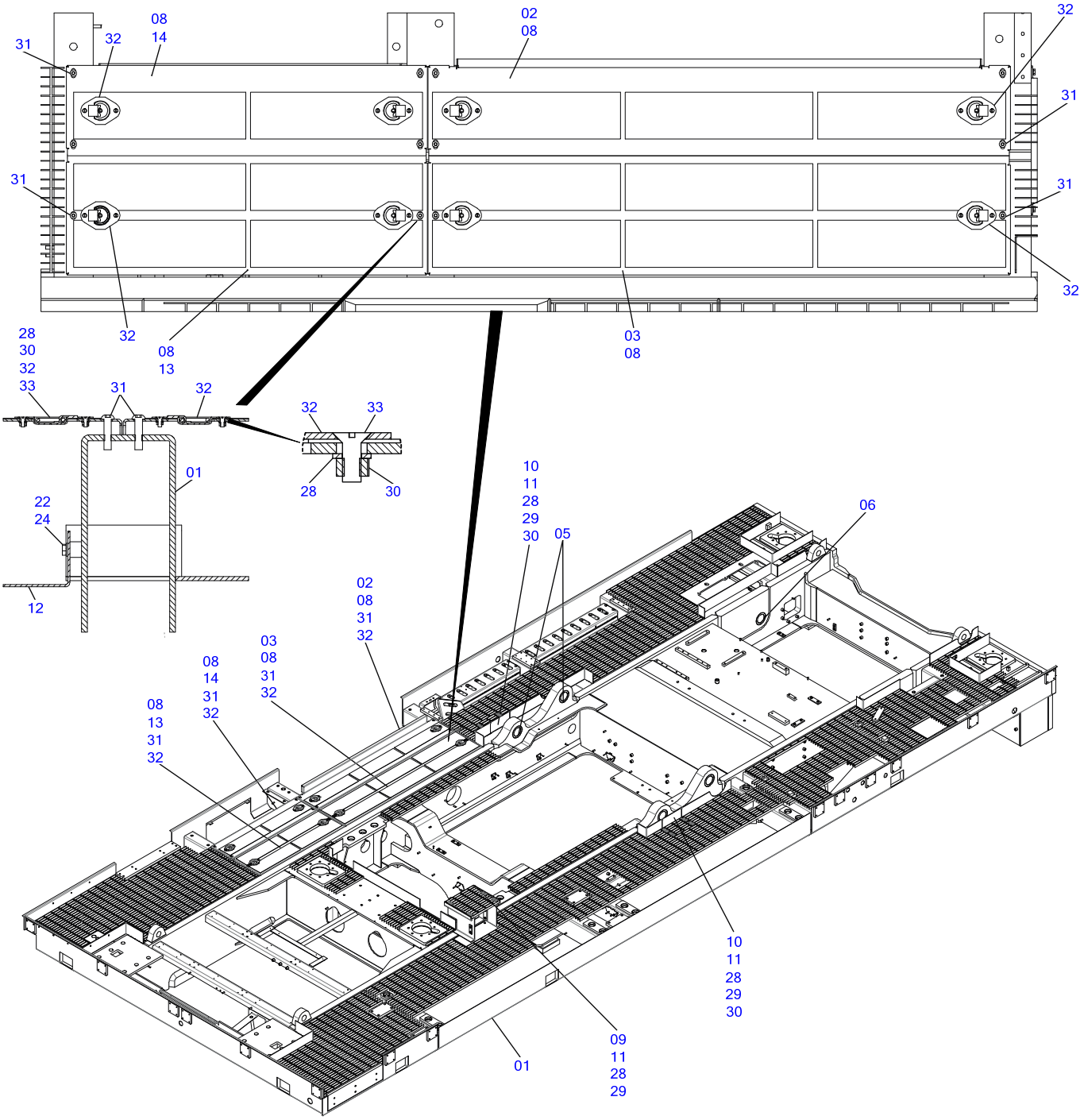
CHASSIS

Item	Description	Page
01	MAIN FRAME ASSEMBLY	7
02	REMOVABLE GRATING, MAIN FRAME, APU	8
03	A-FRAME	9
04	LEVELING JACKS	16
05	INSTALLATION, MAST RAISE CYLINDER	23
06	INSTALLATION, SINGLE FAN COOLERS	24
07	MAST REST	26
08	INSTALLATION, MAIN I/O AND BATTERY BOX	29
09	INSTALLATION, PDT COOLING ROUTINGS	59
10	INSTALLATION, MAIN FRAME LIGHTING	60
11	INSTALLATION, HYDRAULIC TANK	61
12	INJECTION, ARCTIC WATER SYSTEM	64
13	INSTALLATION, HYDRAULIC FILTER/DIVERTER	70
14	INSTALLATION, CHASSIS OPEN GEAR LUBE (OGL)	73
15	INSTALLATION, CHASSIS AUTOMATION HANDRAILS	75
16	ROUTINGS, CHASSIS HYDRAULIC	76
17	INSTALLATION, CHASSIS FRONT ELECTRICAL	104
18	INSTALLATION, CHASSIS REAR ELECTRICAL	106
19	INSTALLATION, CABLE, CONTROL TO CAB	108
20	INSTALLATION, CABLE, CHASSIS FRONT	109
21	INSTALLATION, CABLE, CHASSIS REAR	117
22	ASSEMBLY, MAINFRAME STAIR	125
23	INSTALLATION, HYDRAULIC SUCTION	127
24	INSTALLATION, CABLE, ENGINE	128
25	CABLE INSTALLATION, CUMMINS ENGINE, TIER 4	131
26	INSTALLATION, HYDRAULIC COOLING ROUTINGS	132
27	ROUTING, CHASSIS TO MAST HYDRAULIC	133
28	INSTALLATION, HVAC, DUAL AC	134
29	ANGLED STRUT GROUP	136
30	INSTALLATION, ANGLED A-FRAME GUARDRAIL	141
31	MAIN AIR GROUP, 2000CFM	142
32	ASSEMBLY, POWER UNIT, CUMMINS QST30 TIER 4	151
33	INSTALLATION, FUEL, COLD WEATHER, TIER 4	169
34	INSTALLATION, ENGINE COOLING ROUTINGS	170
35	QUICK FILL STATION	171
36	ROUTINGS INSTALLATION, DEF TANK AND HOSE	176
37	INSTALLATION, DEF TANK, QUICK FILL ROUTING	179
38	INSTALLATION, CHASSIS DECK CRANE CABLE	180
39	INSTALLATION, MAST ACCESS PLATFORM SKIRT	181
40	INSTALLATION, CHASSIS, AUTO LUBE SYSTEM	182

CHASSIS

Item	Description	Page
41	INSTALLATION, ELECTRICAL BOX, LUBE	184
42	INSTALLATION, CABLE ROUTING, TIER 4	187
43	ELECTRICAL INSTALLATION, FUEL PUMP	188
44	INSTALLATION, CONTROL POWER LIGHT	189
45	DECAL ASSEMBLY, GROUND DISCONNECT (Not Shown)	190
46	INSTALLATION, HPGPS	191
47	INSTALLATION, HAWKEYE	193
48	INSTALLATION, TELE-OP	197
49	INSTALLATION, CONTROL PANEL AUTOMATION	206
50	APU INSTALLATION, CUMMINS TIER 4	209
51	FUEL UPGRADE, COLD WEATHER, QST30 T4	212
52	ELECTRICAL CONTROLS INSTALLATION, 77XR COLD WEATHER	213
53	KIT, 300 GALLON WATER TANK	214

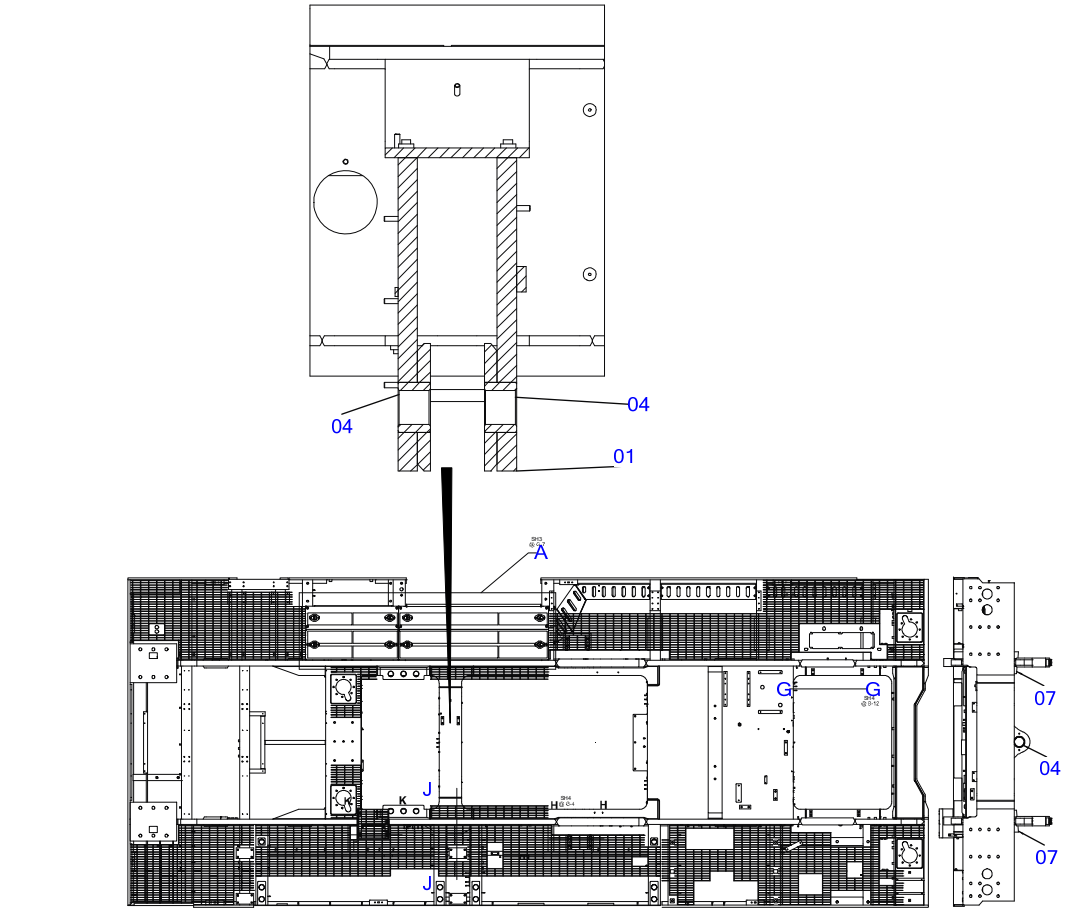
MAIN FRAME ASSEMBLY

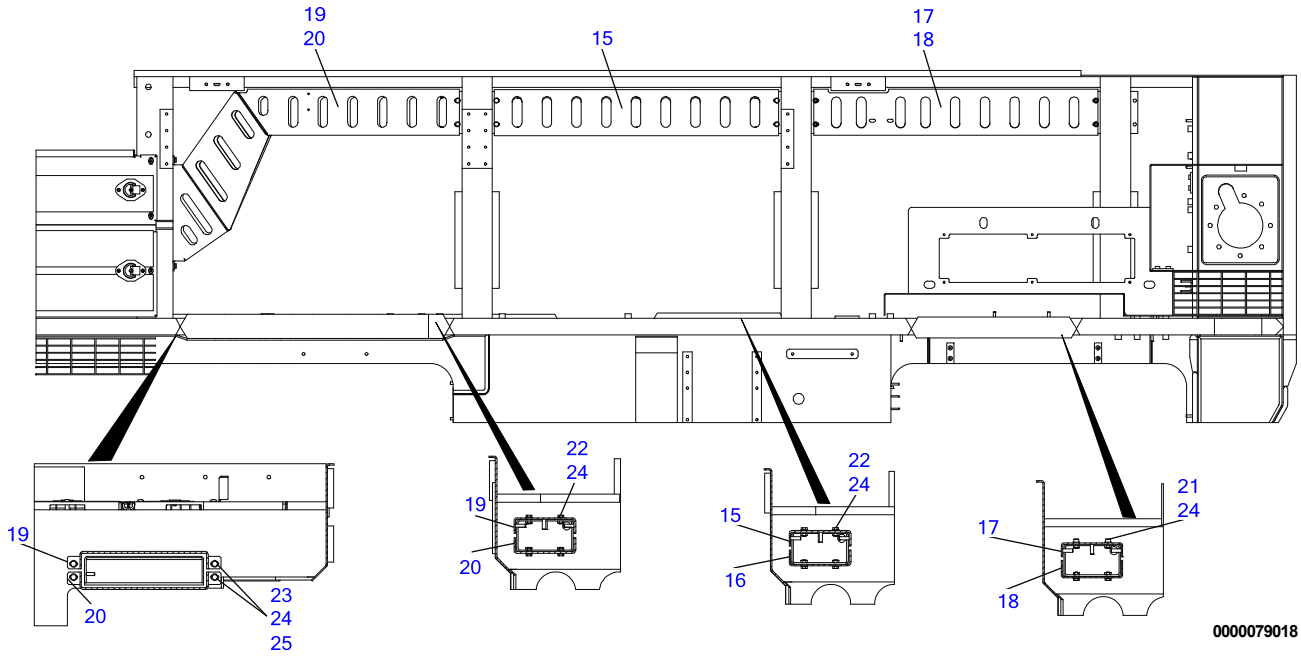


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MAIN FRAME ASSEMBLY

MAIN FRAME ASSEMBLY





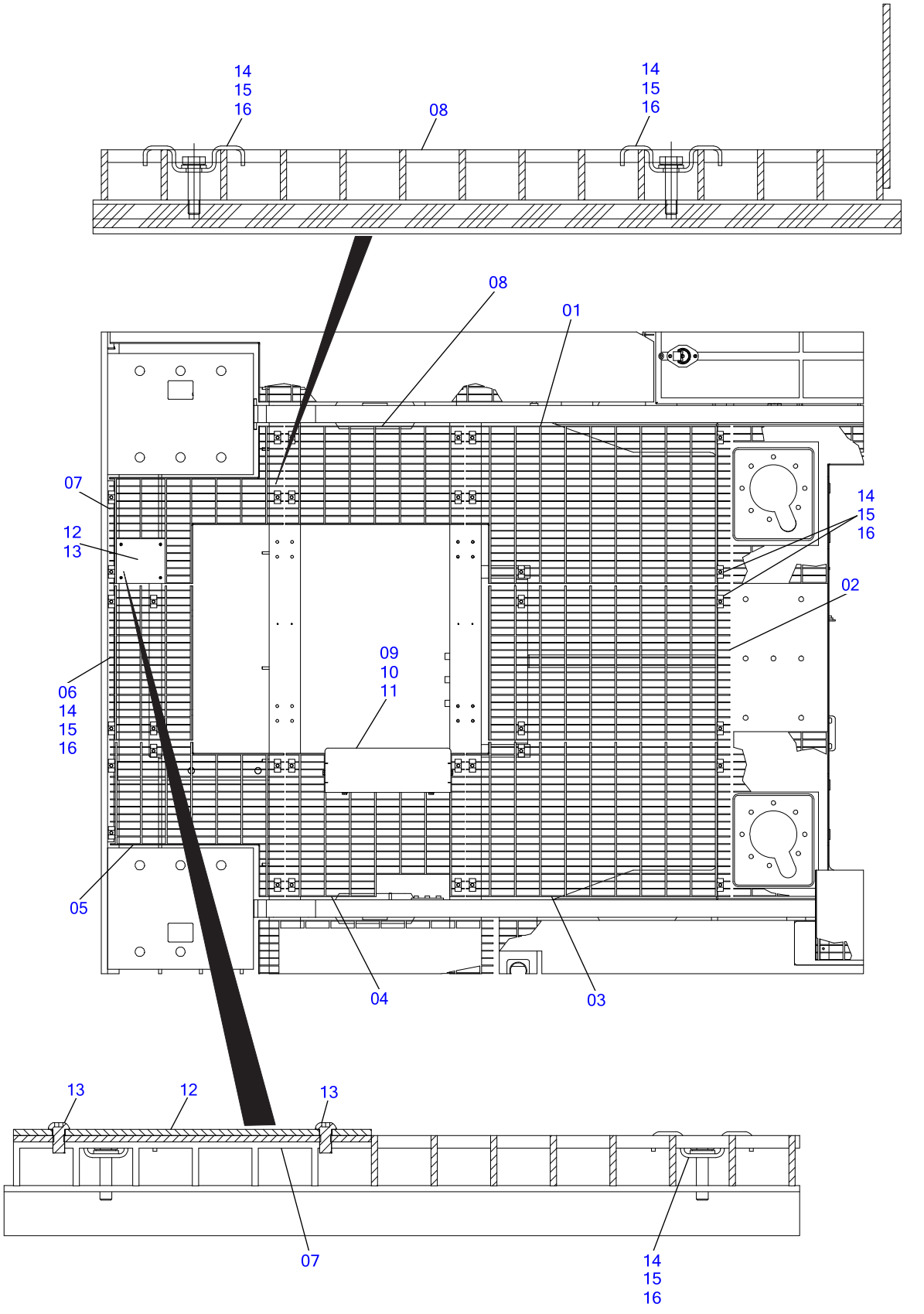
MAIN FRAME ASSEMBLY

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MAIN FRAME ASSEMBLY

Item	Part No.	Description	Qty.
	R109745F1	MAIN FRAME ASSEMBLY	
01	R109745D3	· FRAME	1
02	R99212D1	· COVER, Trough - I/O CAB	1
03	R99213D1	· COVER, Trough - I/O CAB	1
04	R90022D1	· BUSHING, Chassis	2
05	R89832D1	· BUSHING, Chassis	4
06	R89831D1	· BUSHING, Chassis	2
07	R99449D1	· BUMPER	2
08	R94400D22	· TAPE, Anti-Slip	1
09	R101930D1	· GRATING, Main Frame	1
10	R108031D1	· GRATING, Removable, Main Frame	2
11	R42539D2	· CLIP, Saddle (Grating Retention)	12
12	R107919D1	· SUPPORT TROUGH, Electrical	1
13	R107920D1	· COVER, Trough - Battery Box	1
14	R107921D1	· COVER, Trough - Battery Box	1
15	R103406D1	· TROUGH, Cable - Upper	1
16	R103409D1	· TROUGH, Cable	1
17	R108441D1	· TROUGH, Cable - Upper	1
18	R108442D1	· TROUGH, Cable - Lower	1
19	R108443D1	· TROUGH, Cable - Upper	1
20	R108444D1	· TROUGH, Cable - Lower	1
21	0630M10020	· SCREW, Socket Head	4
22	0825M10020	· BOLT, Hex Hd	20
23	0825M10030	· BOLT, Hex Hd	4
24	3648M010	· WASHER, Hardened	32
25	2104M010	· NUT, Hex	4
26	3632V006	· WASHER, Plain (Not Shown)	8
27	0825M12065	· BOLT, Hex Hd (Not Shown)	8
28	3648M006	· WASHER, Hardened	40
29	0825M06035	· BOLT, Hex Head	12
30	2104M006	· NUT, Hex	28
31	0836M12050	· SCREW, Button Hd Cap	12
32	R108445D1	· PULL HANDLE, Recessed, Folding	8
33	0844M06016	· SCREW, Flat Hd	16

REMOVABLE GRATING, MAIN FRAME, APU



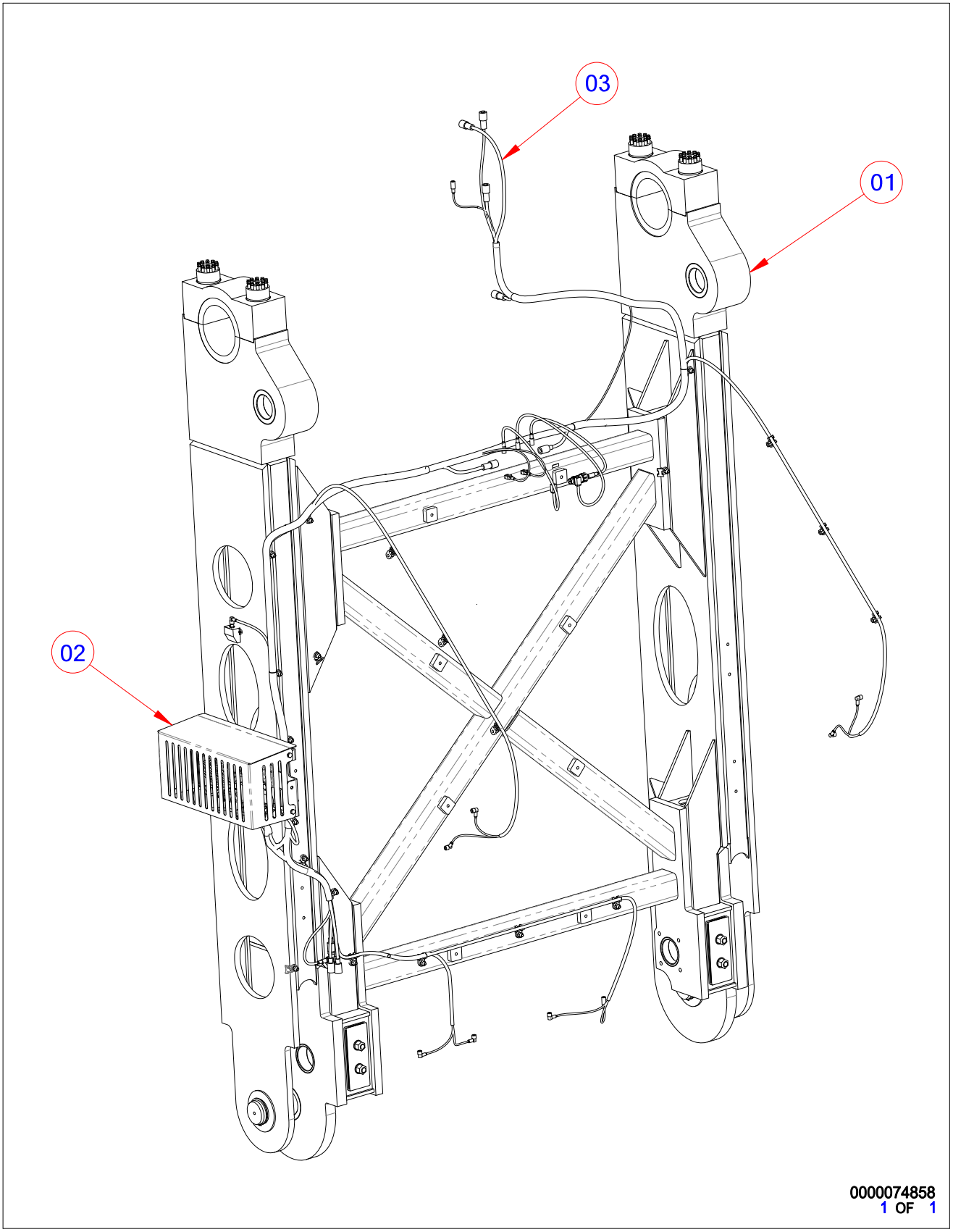
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REMOVABLE GRATING, MAIN FRAME

REMOVABLE GRATING, MAIN FRAME, APU

Item	Part No.	Description	Qty.
	R109746F1	REMOVABLE GRATING, MAIN FRAME, APU	
01	R107922D1	▪ GRATING, Main Frame	1
02	R107923D1	▪ GRATING, Main Frame	1
03	R107924D1	▪ GRATING, Main Frame	1
04	R101934D1	▪ GRATING, Main Frame	1
05	R107925D1	▪ GRATING, Main Frame	1
06	R107926D1	▪ GRATING, Main Frame	1
07	R107927D1	▪ GRATING, Main Frame	1
08	R107928D1	▪ GRATING, Main Frame	1
09	R102469D1	▪ COVER, Removable Grating	1
10	0825M10016	▪ BOLT, Hex Hd	4
11	3648M010	▪ WASHER, Hardened	4
12	R109737D1	▪ COVER PLATE, Removable Grating	1
13	0836M06012	▪ SCREW, Button Hd Cap	4
14	R42539D2	▪ CLIP, Saddle	35
15	0825M06025	▪ BOLT, Hex Hd	35
16	3648M006	▪ WASHER, Hardened	35

A-FRAME

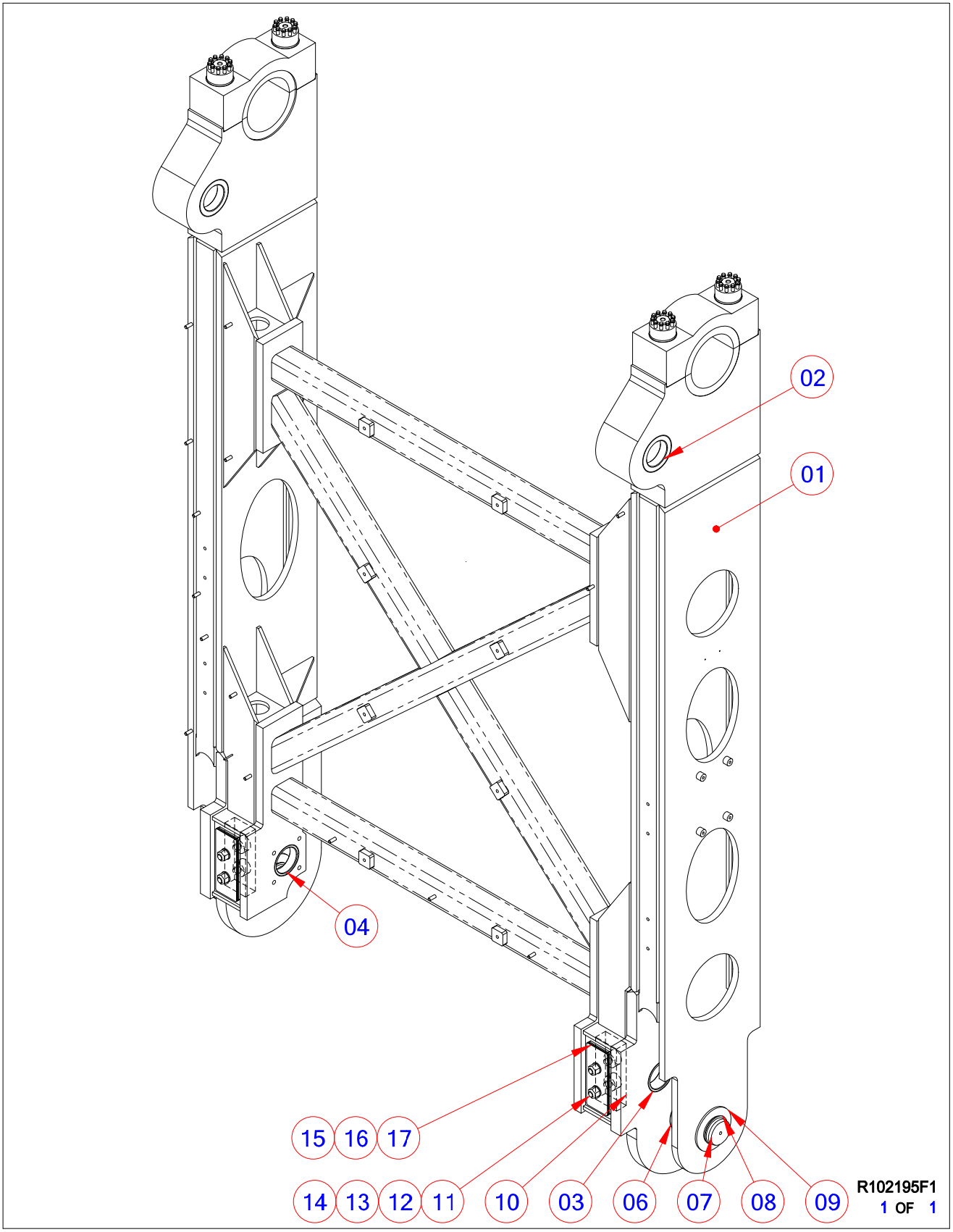


GROUP LEVEL,A-FRAME

A-FRAME

Item	Part No.	Description	Qty.	Page
	R102202F1	A-FRAME		
01	R102195F1	▪ A-FRAME ASSEMBLY	1	10
02	R104089F1	▪ ELECTRICAL INSTALLATION, A-Frame	1	11
03	R89725F1200	▪ CABLE INSTALLATION, A-Frame	1	12

A-FRAME ASSEMBLY

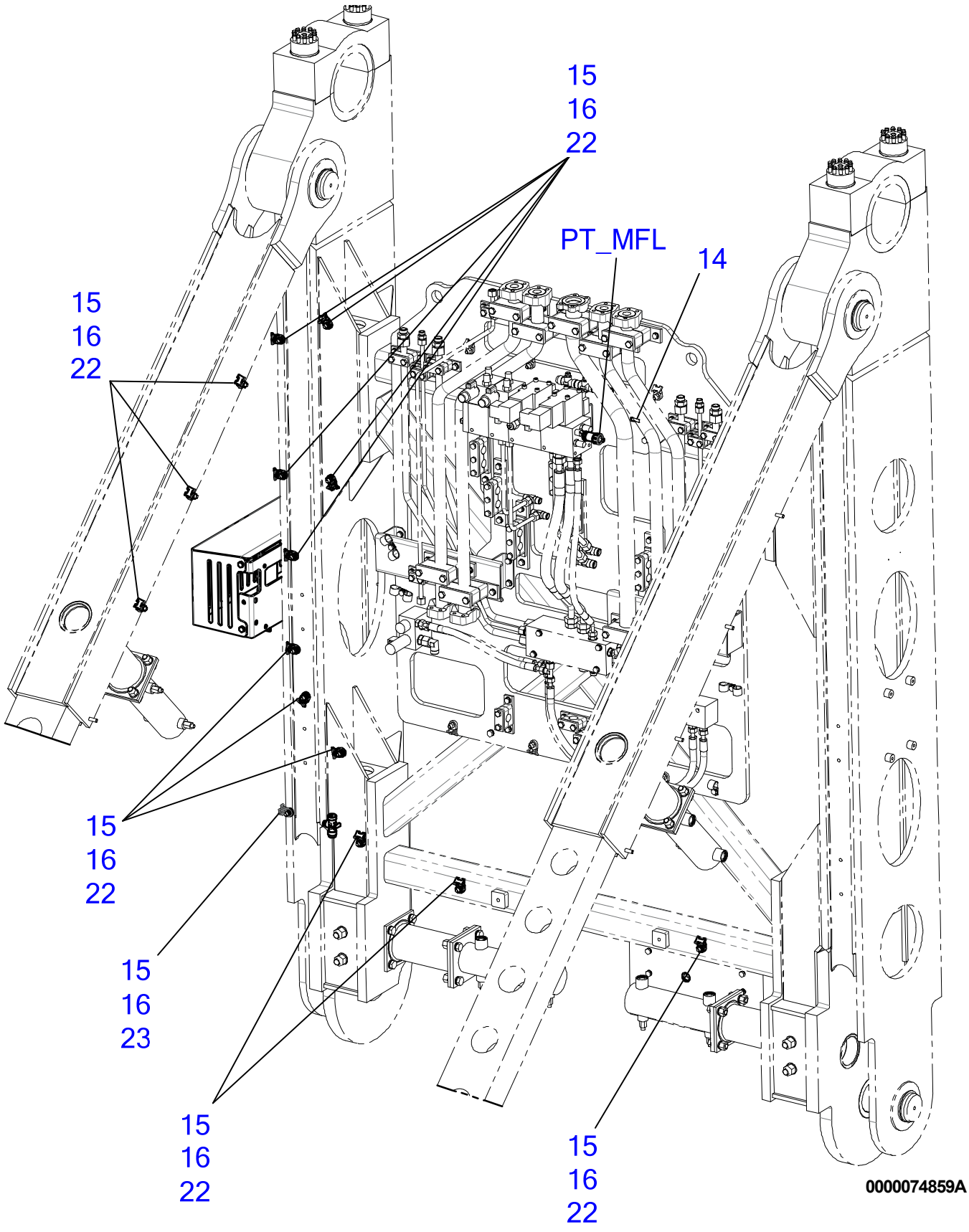


A-FRAME ASSEMBLY

A-FRAME ASSEMBLY

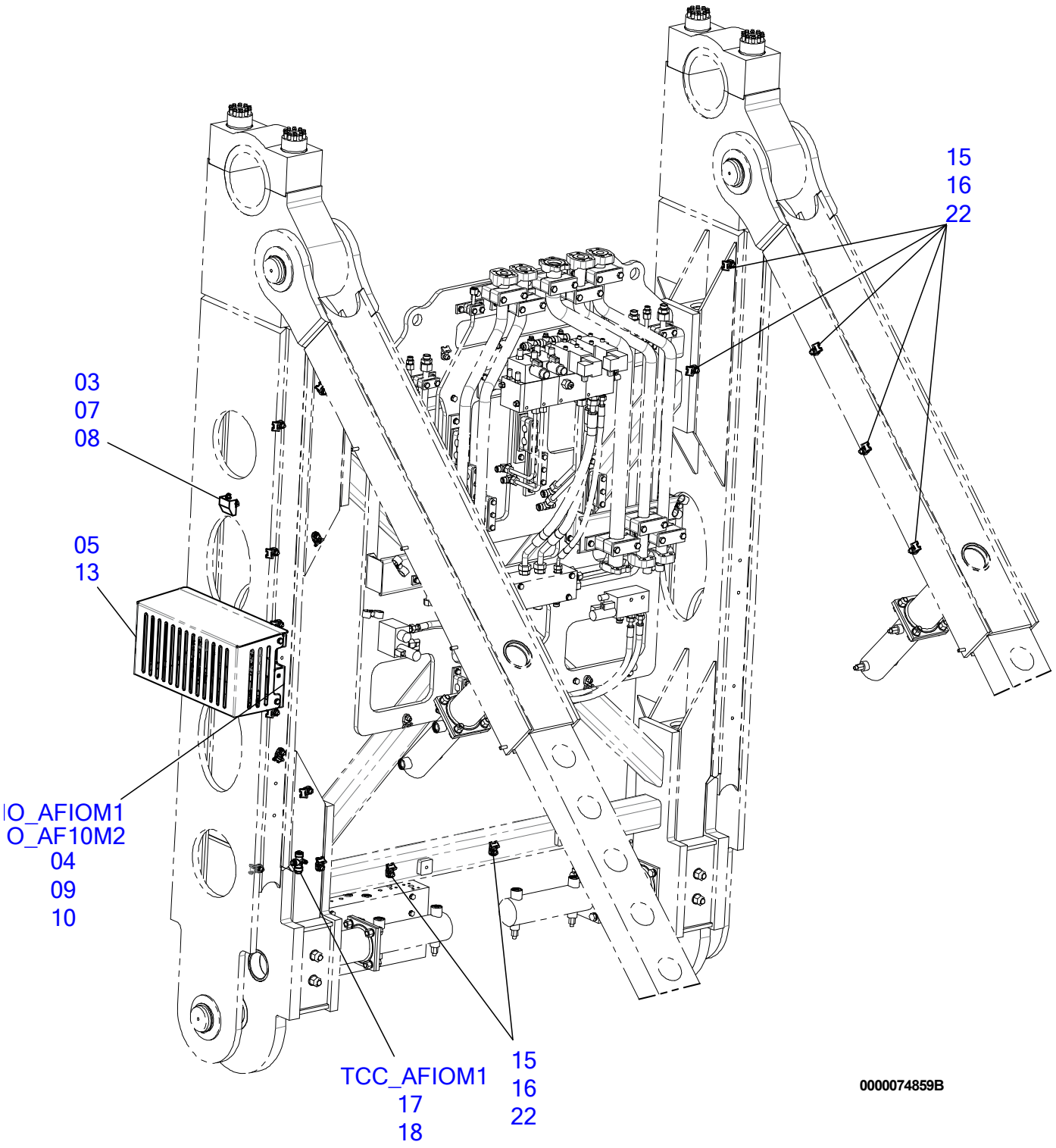
Item	Part No.	Description	Qty.
	R102195F1	A-FRAME ASSEMBLY	
01	R102164D2	・A-FRAME, Machining	1
02	R89837D1	・BUSHING	4
03	R89842D1	・BUSHING	2
04	R90023D1	・BUSHING	2
05	R89836D1	・BUSHING	2
06	R89835D1	・BUSHING	2
07	R89833D1	・PIN	2
08	R89724D90	・SNAP RING	4
09	R89834D1	・THRUST WASHER	4
10	R99107D1	・BUMPER	2
11	0825M20090	・BOLT, Hex Hd	4
12	3648M020	・WASHER, Hardened	8
13	2104M020	・NUT, Hex	4
14	21Z772D4	・COMPOUND, Sealing and Locking	1
15	R109481D1	・SHIM	4
16	R109481D2	・SHIM	4
17	R109481D3	・SHIM	4

ELECTRICAL INSTALLATION, A-FRAME



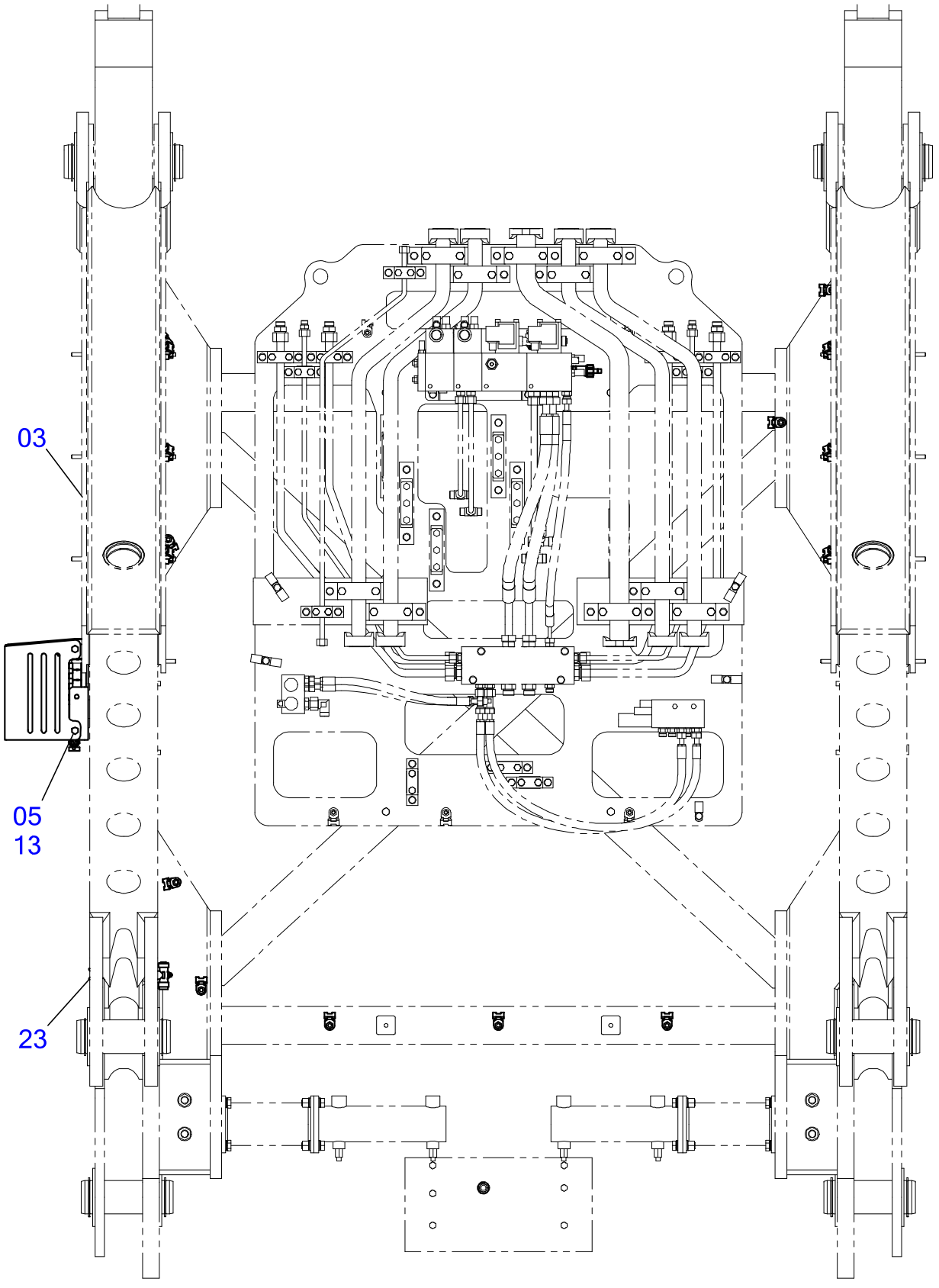
INSTALLATION, ELECTRICAL, A-FRAME

ELECTRICAL INSTALLATION, A-FRAME



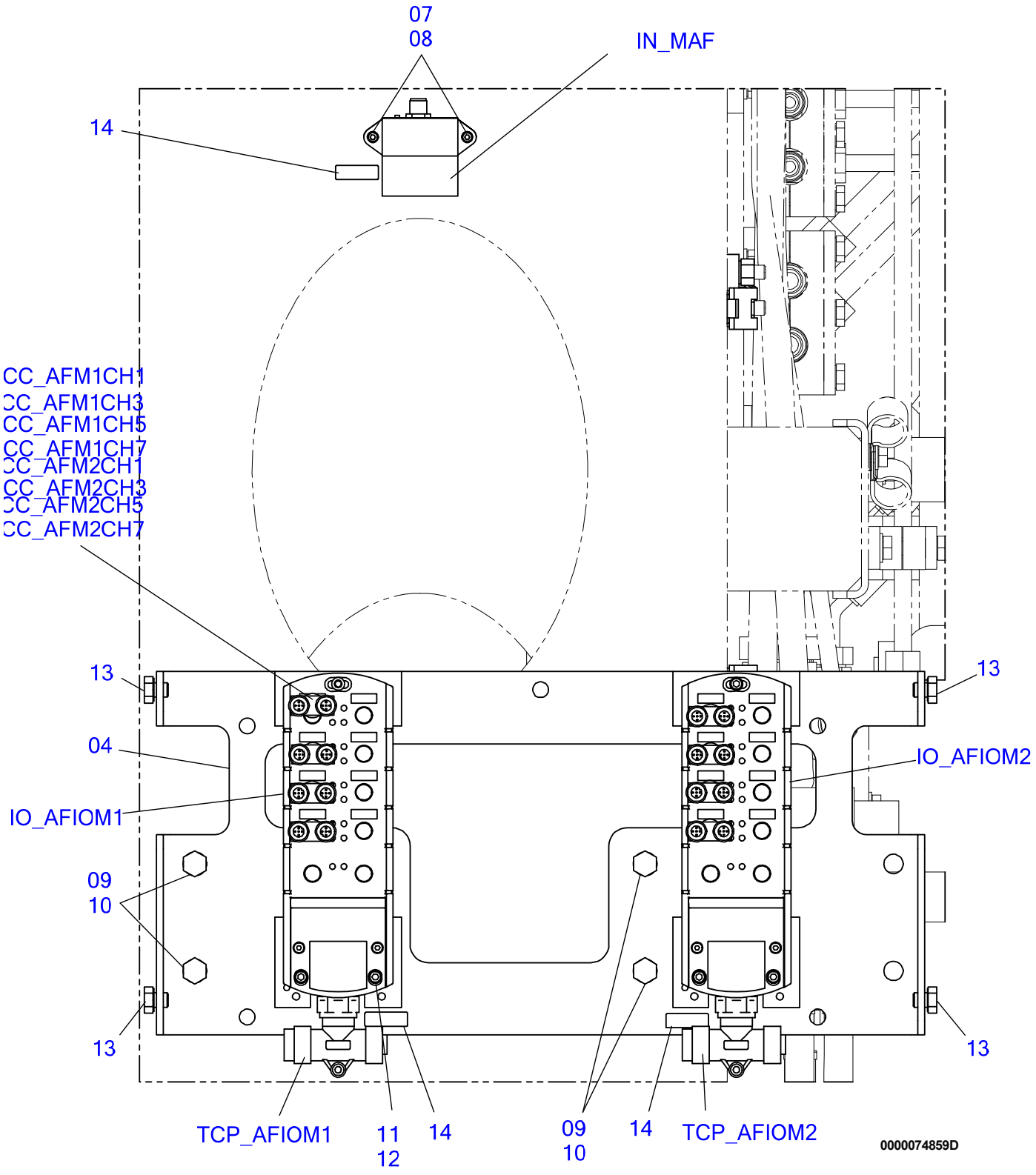
INSTALLATION, ELECTRICAL, A-FRAME CONT.

ELECTRICAL INSTALLATION, A-FRAME



INSTALLATION, ELECTRICAL, A-FRAME CONT.

ELECTRICAL INSTALLATION, A-FRAME



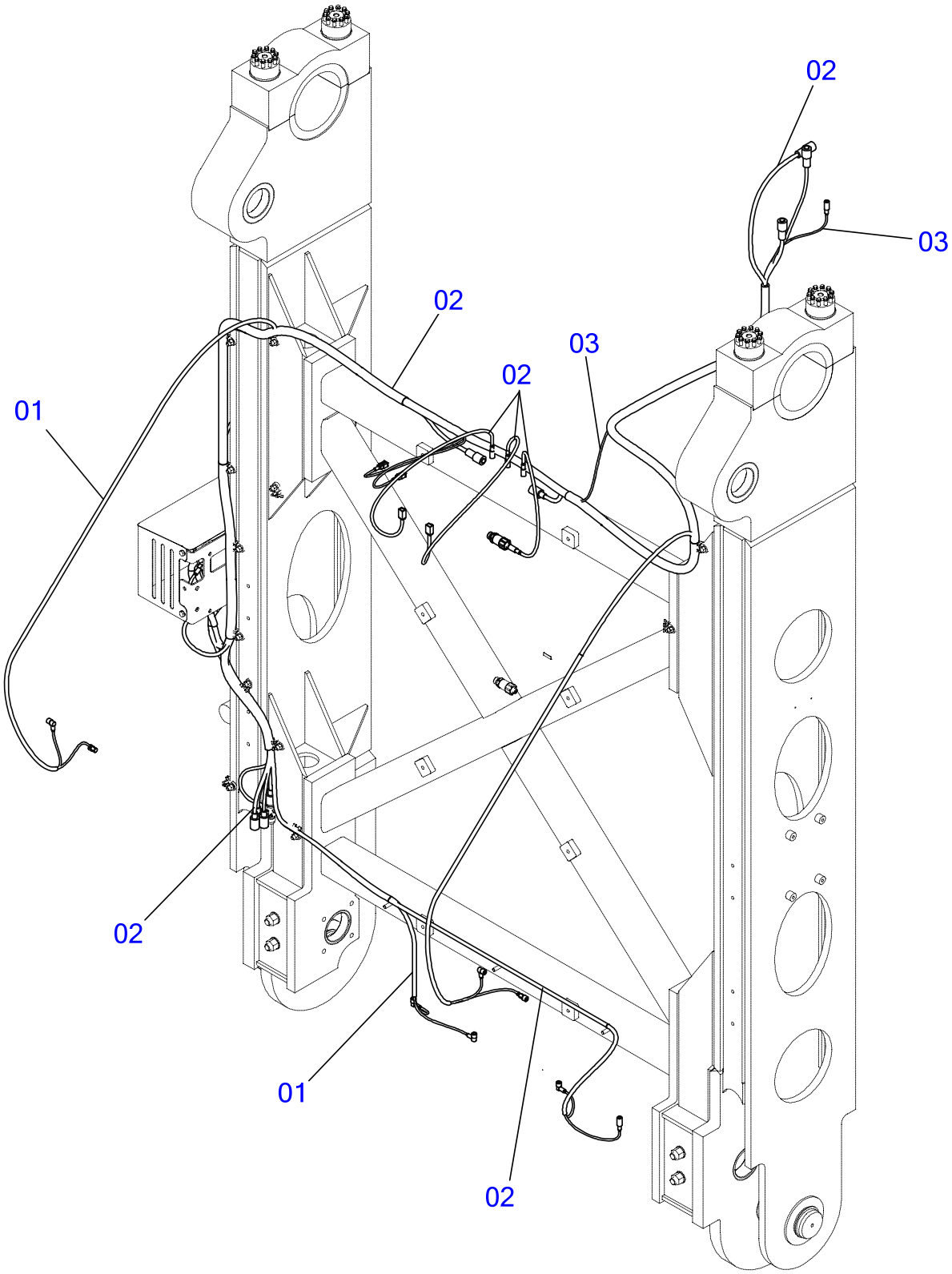
INSTALLATION, ELECTRICAL, A-FRAME CONT.

KOMATSU

ELECTRICAL INSTALLATION, A-FRAME

Item	Part No.	Description	Qty.	Unit
	R104089F1	ELECTRICAL INSTALLATION, A-FRAME		
IO_AFIOM1	R74817D1	· MODULE, I/O	1	
IO_AFIOM2	R74817D1	· MODULE, I/O	1	
02		NOT USED		
IN_MAFAI	R90555D1	· ACCELEROMETER/INCLINOMETER, Mast	1	
04	R89854D1	· BACK PLATE	1	
05	R89855D1	· HOOD	1	
PT_MFL	R90562D1	· TRANSDUCER, Pressure	1	
07	R80589D1	· WASHER, Lock	2	
08	0630M04012	· SCREW, Socket Head	2	
09	R82264D20	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4	
10	0825M10020	· BOLT, Hex Head	4	
11	18Q363D1	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6	Pair
12	0630M05025	· SCREW, Socket Head	6	
13	0825M10010	· BOLT, Hex Head	4	
14	R99172D1	· DECALS, A-Frame	1	
15	18Z3087D4	· WASHER, Conical Lock	21	
16	2104M010	· NUT, Hex	21	
17	2104M004	· NUT, Hex	1	
18	18Z3087D1	· WASHER, Conical Lock	1	
TCC_AFIOM1	R90737D1	· CONNECTOR, 5 Pole	1	
TCP_AFIOM1	R90736D1	· CONNECTOR, 3 Pole	1	
TCP_AFIOM2	R90736D1	· CONNECTOR, 3 Pole	1	
21		NOT USED		
22	R88247D1	· MOUNT, Single	20	
23	R90641D1	· CABLE MOUNT, Single Edge	1	
TCC_AFM1CH1	R91485D1	· Y-SPLITTER, M12	1	
TCC_AFM1CH3	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	
TCC_AFM1CH5	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	
TCC_AFM1CH7	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	
TCC_AFM2CH1	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	
TCC_AFM2CH3	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	
TCC_AFM2CH5	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	
TCC_AFM2CH7	R91485D1	· A-FRAME I/O MODULE #1 CH5 CAN T	1	

CABLE INSTALLATION, A-FRAME



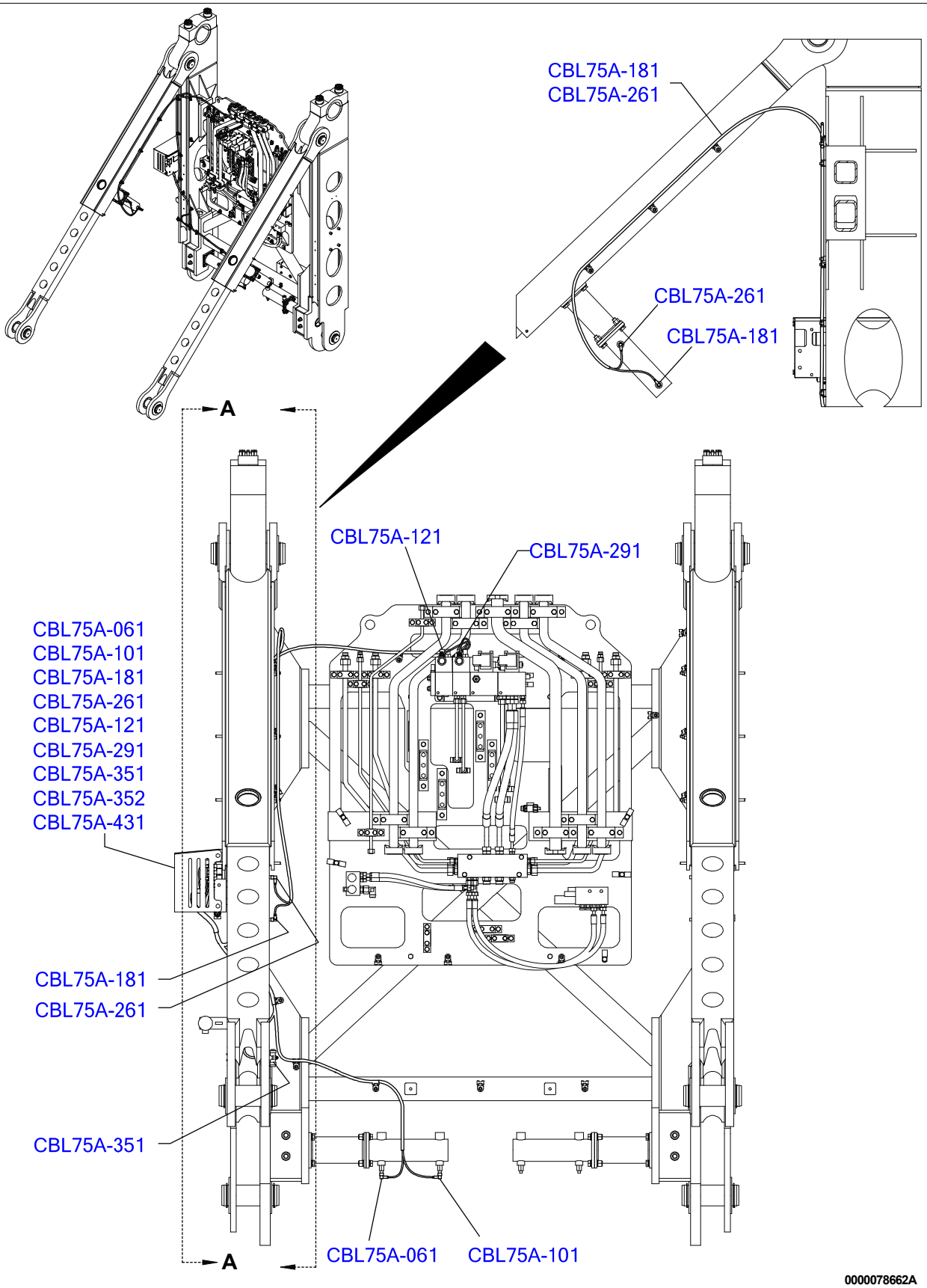
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CABLE INSTALLATION, A-FRAME

CABLE INSTALLATION, A-FRAME

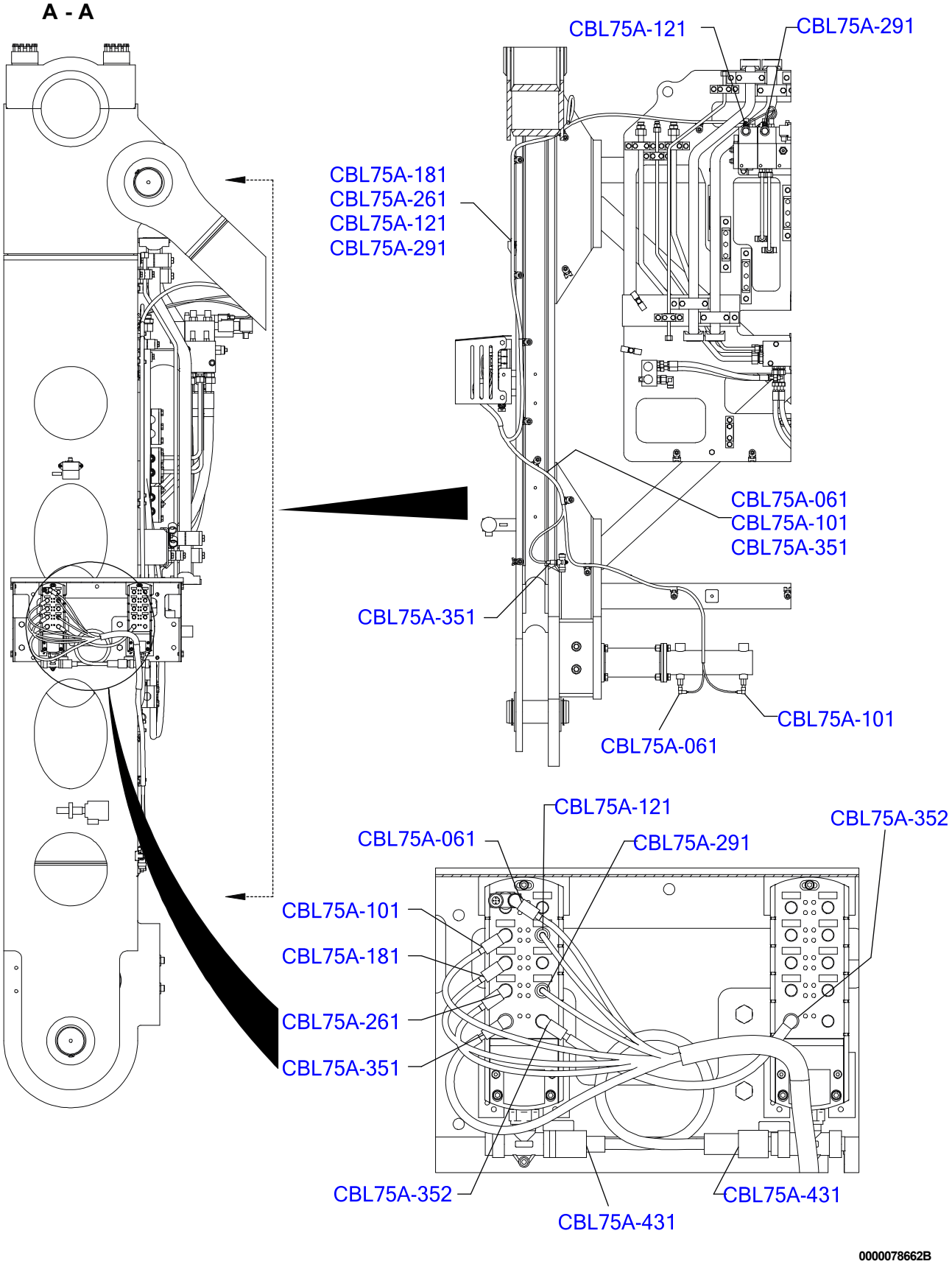
Item	Part No.	Description	Qty.	Page
	R89725F1200	CABLE INSTALLATION, A-FRAME		
01	R89725F1201	▪ CABLE INSTALLATION, Tilt	1	13
02	R89725F1202	▪ CABLE INSTALLATION, Mast Function	1	14
03	R89725F1203	▪ CABLE INSTALLATION, Mast Camera	1	15

CABLE INSTALLATION, TILT



CABLE INSTALLATION, TILT

CABLE INSTALLATION, TILT



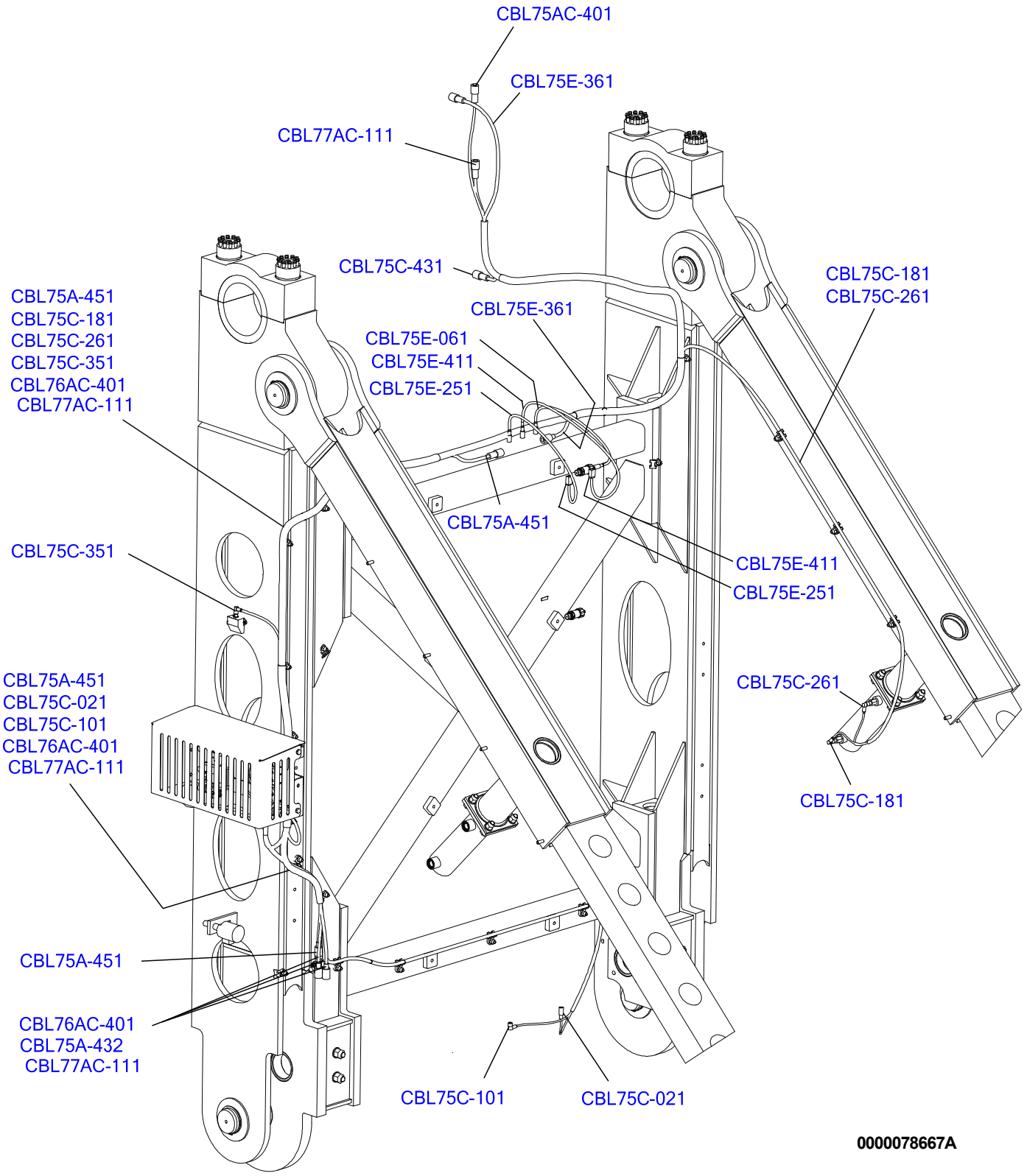
CABLE INSTALLATION, TILT CONT.

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CABLE INSTALLATION, TILT

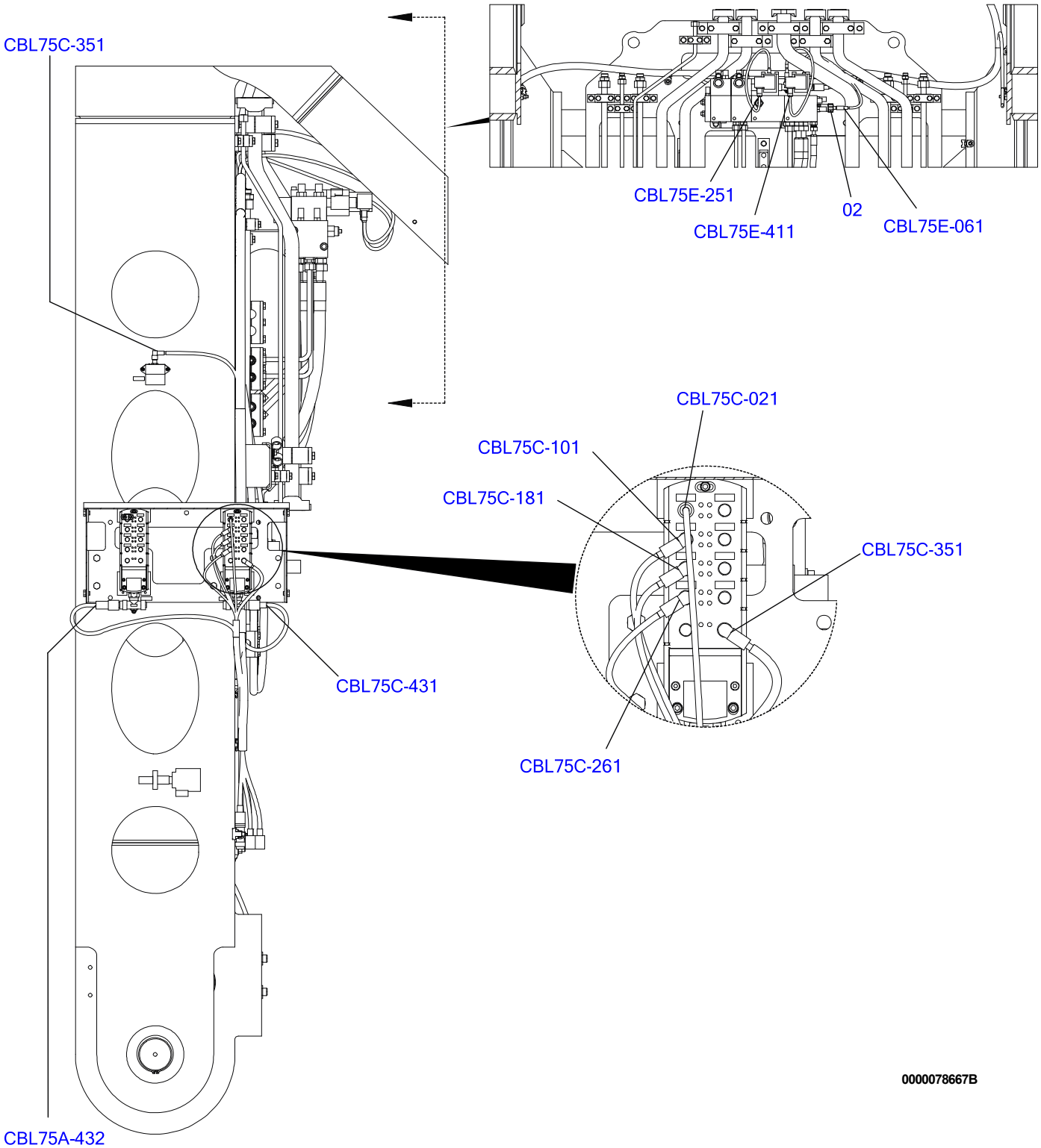
Item	Part No.	Description	Qty.
	R89725F1201	CABLE INSTALLATION, TILT	
01	R89740F1201	・WIRE LIST, Tilt	1
CBL75A-061	R90650T12D230	・・CABLE, 4 Pin	1
CBL75A-101	R90650T12D250	・・CABLE, 4 Pin	1
CBL75A-181	R90650T12D460	・・CABLE, 4 Pin	1
CBL75A-261	R90650T12D460	・・CABLE, 4 Pin	1
CBL75A-121	R90650T21D350	・・CABLE, 2 Pin	1
CBL75A-291	R90650T21D350	・・CABLE, 2 Pin	1
CBL75A-351	R90651T13D360	・・CABLE, 5 Pin	1
CBL75A-352	R90651T12D40	・・CABLE, 5 Pin	1
CBL75A-431	R90655T10D100	・・CABLE, 3 Pin	1
02	R88249D1	・TIE, Wire (Not Shown)	20

CABLE INSTALLATION, MAST FUNCTION



CABLE INSTALLATION, MAST FUNCTION

CABLE INSTALLATION, MAST FUNCTION



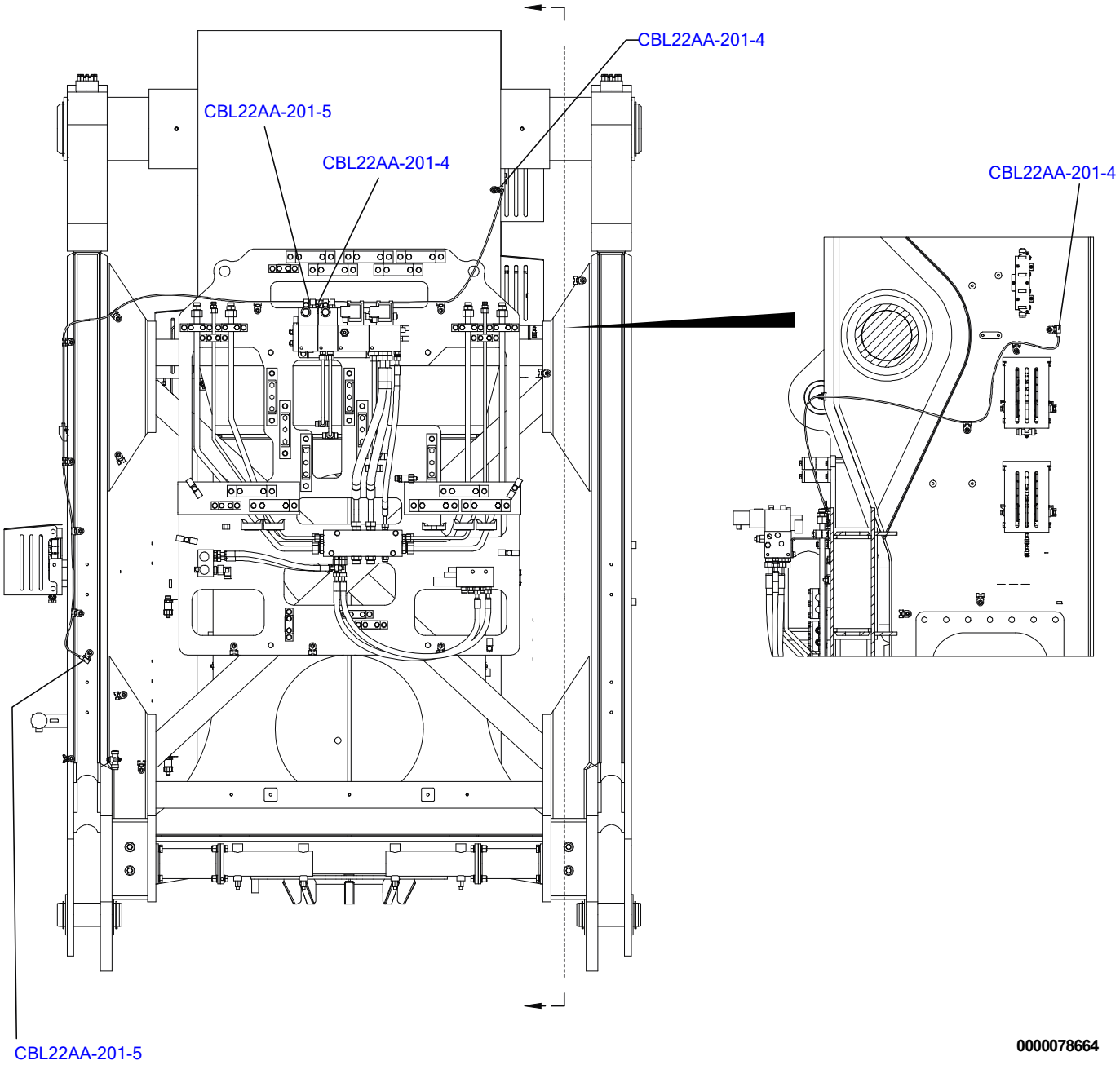
SIDE VIEW

KOMATSU

CABLE INSTALLATION, MAST FUNCTION

Item	Part No.	Description	Qty.
	R89725F1202	CABLE INSTALLATION, MAST FUNCTION	
01	R89740F1202	・WIRE LIST, Mast Function	1
CBL75A-451	R90652T10D290	・・CABLE, 5 Pin	1
CBL75C-021	R90650T11D310	・・CABLE, 4 Pin	1
CBL75C-101	R90650T12D300	・・CABLE, 4 Pin	1
CBL75C-181	R90650T12D610	・・CABLE, 4 Pin	1
CBL75C-261	R90650T12D610	・・CABLE, 4 Pin	1
CBL75C-351	R90651T12D150	・・CABLE, 5 Pin	1
CBL75C-431	R90655T10D500	・・CABLE, 3 Pin	1
CBL75E-061	R90651T10D60	・・CABLE, 5 Pin	1
CBL75E-251	R90651T25D90	・・CABLE, 4 Pin	1
CBL75E-411	R90651T25D90	・・CABLE, 4 Pin	1
CBL75E-361	R90652T10D270	・・CABLE, 5 Pin	1
CBL76AC-401	R90655T10D580	・・CABLE, 3 Pin	1
CBL75A-432	R90655T10D140	・・CABLE, 3 Pin	1
CBL77AC-111	R90652T10D560	・・CABLE, 5 Pin	1
02	R90562D1	・TRANSDUCER, Pressure	1
03	R88249D1	・TIE, Wire (Not Shown)	25

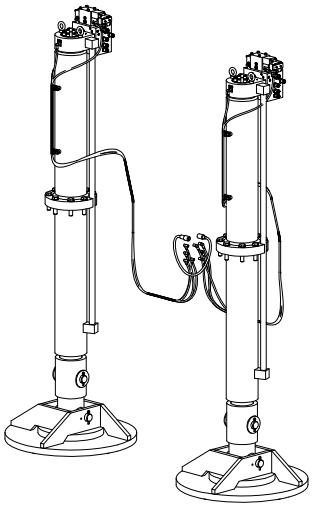
CABLE INSTALLATION, MAST CAMERA

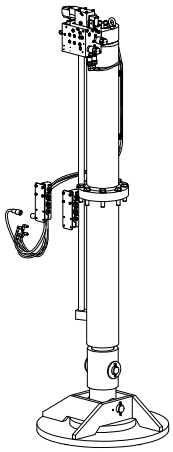


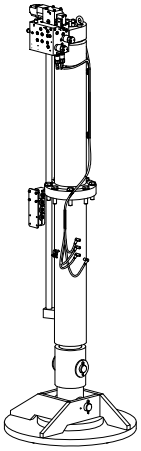
CABLE INSTALLATION, MAST CAMERA

Item	Part No.	Description	Qty.
	R89725F1203	CABLE INSTALLATION, MAST CAMERA	
01	R89740F1203	・WIRE LIST, Mast Camera	1
CBL22AA-201-4	R95939D1	・・CABLE ASSEMBLY	1
CBL22AA-201-5	R95939D1	・・CABLE ASSEMBLY	1
02	R88249D1	・TIE, Wire (Not Shown)	20

LEVELING JACKS







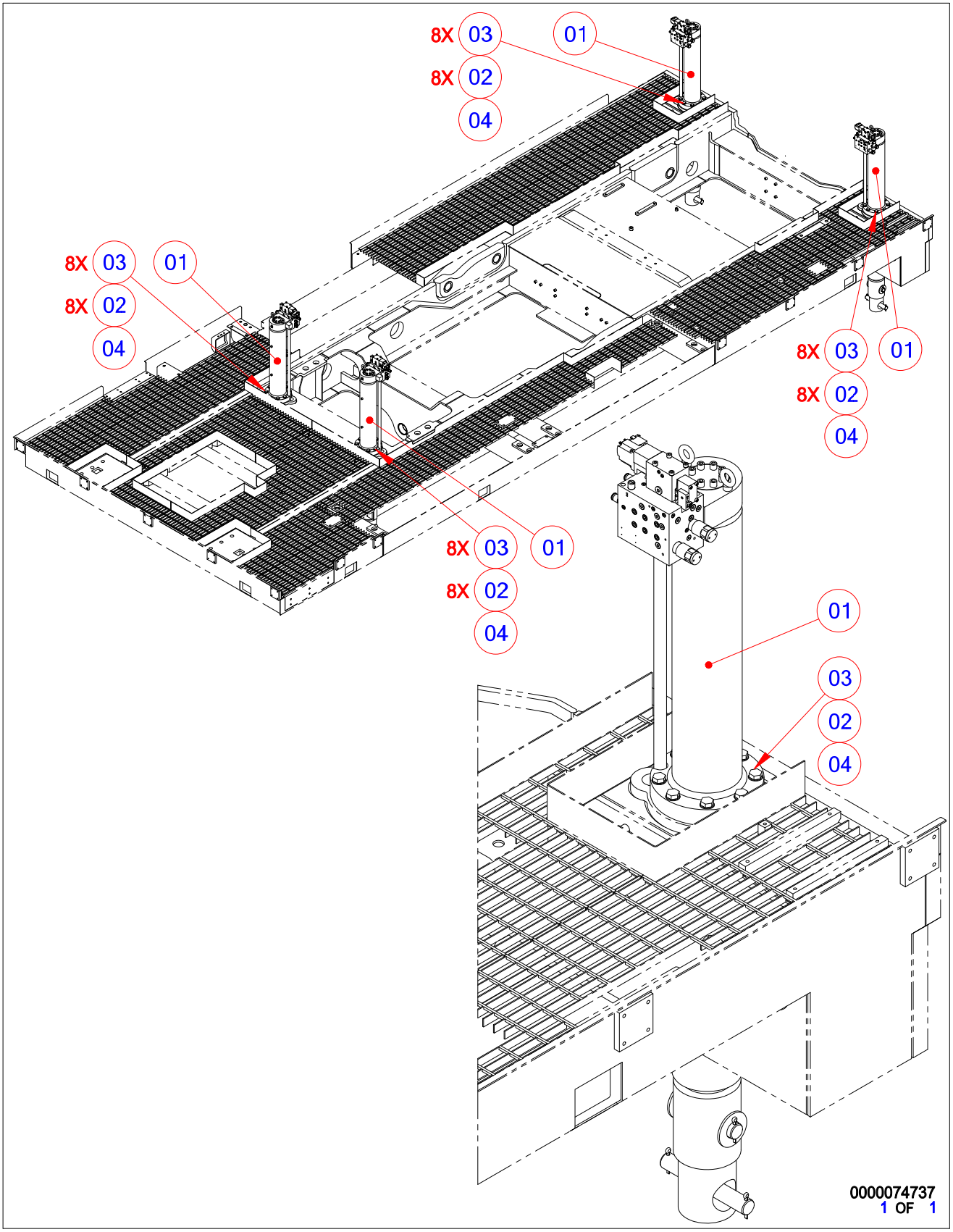
R110098F1
1 OF 1

GROUP LEVEL,LEVELING JACKS

LEVELING JACKS

Item	Part No.	Description	Qty.	Page
	R110098F1	LEVELING JACKS		
01	R89751F1	▪ INSTALLATION, Leveling Jacks	1	17
02	R105067F1	▪ ELECTRICAL INSTALLATION, Leveling Jacks	1	21
03	R111038F36	▪ CABLE INSTALLATION, Leveling Jacks	1	22
04	R110099D1	▪ JACK SHOE	4	

INSTALLATION, LEVELING JACKS

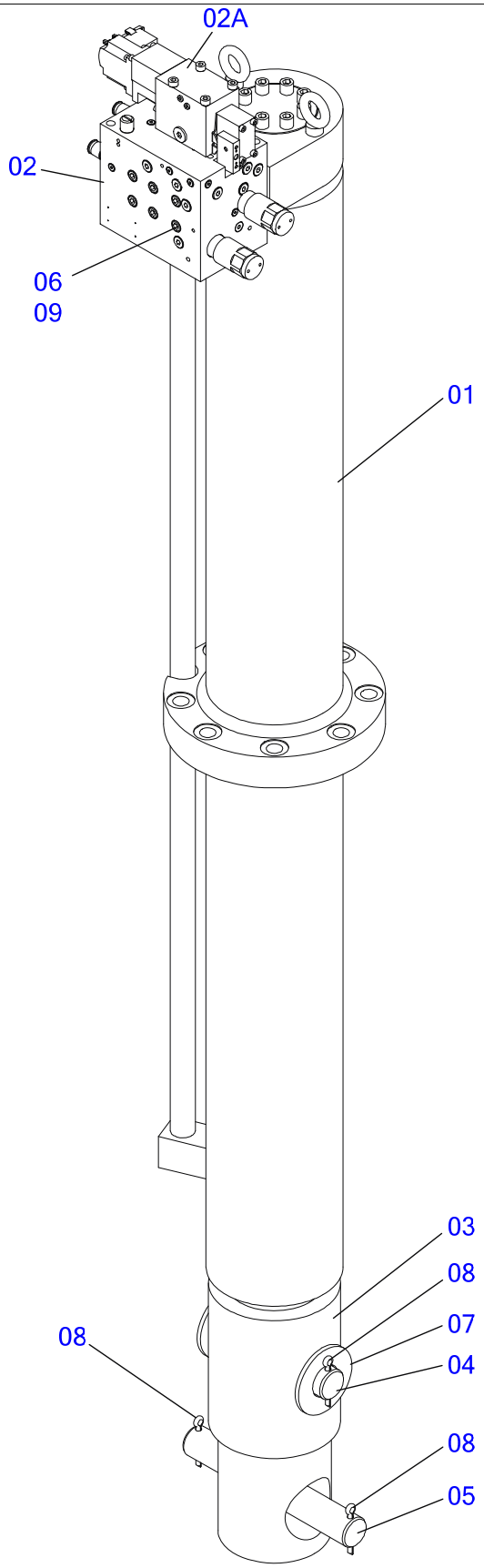


INSTALLATION, LEVELING JACKS

INSTALLATION, LEVELING JACKS

Item	Part No.	Description	Qty.	Page
	R89751F1	INSTALLATION, LEVELING JACKS		
01	R90020F1	▪ JACK, LEVELING	4	18
02	3648M020	▪ WASHER, Hardened	32	
03	0825M20090	▪ BOLT, Hex Hd	32	
04	21Z772D4	▪ COMPOUND	1	

JACK, LEVELING



LEVELING JACK

JACK, LEVELING

Item	Part No.	Description	Qty.	Page
	R90020F1	JACK, LEVELING		
01	R90021D2	・CYLINDER, Leveling Jack	1	19
02	R89821D1	・MANIFOLD, Leveling Jack	1	20
03	R90132D1	・ADAPTER, Jack Shoe	1	
04	19F66D30	・DRILLED PIN	1	
05	19F66D44	・PIN	1	
06	0830M10130	・SCREW, Socket Head	6	
07	3644V080	・WASHER, Plain	2	
08	2203V104	・COTTER PIN	4	
09	21Z772D4	・COMPOUND, Sealing and Locking	1	

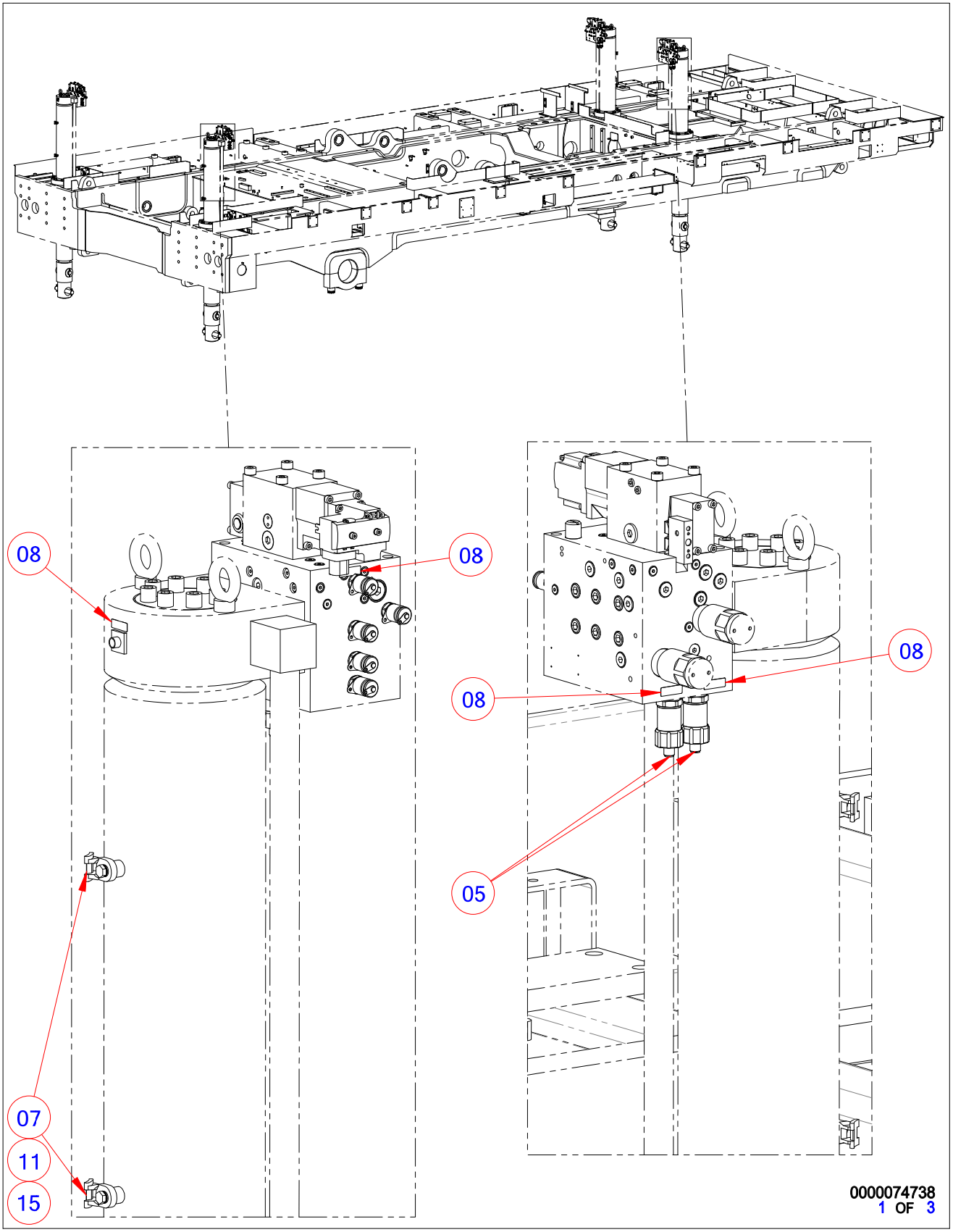
LEVELING JACK

Part No.	Description	Qty.
R90021D2	LEVELING JACK	1
R9017626D1	▪ BARREL	1
R9005478D1	▪ ROD	1
R9011609D1	▪ PISTON	1
R9011610D1	▪ HEAD GLAND	1
R9005350D5	▪ SENSOR, Linear Position	1
R9012656D1	▪ EYE BOLT	2
R9011611D1	▪ SEAL KIT	1

MANIFOLD, LEVELING JACK

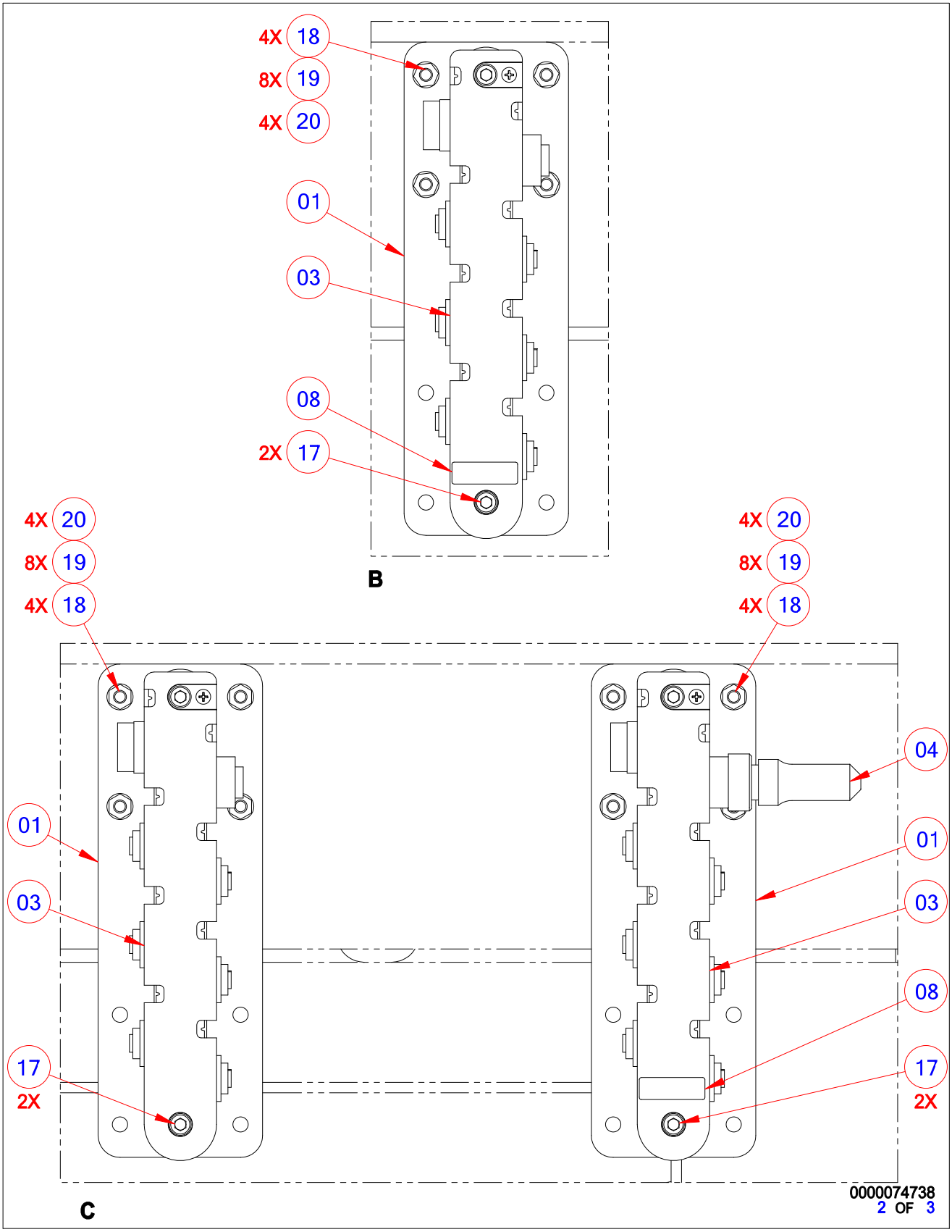
Item	Part No.	Description	Qty.
	R89821D1	MANIFOLD, LEVELING JACK	
01	R91523D1	▪ VALVE, Proportional	1
02	R9006034D1	▪ VALVE, Pressure Reducing	1
03	R9006047D1	▪ ORIFICE INSERT	1
04	R108794D1	▪ VALVE, Counterbalance	2
05	R9005943D1	▪ FITTING, Test Port	5
06	45Z91D120	▪ O-RING	2
07	0830M08090	▪ SCREW, Socket Hd	4
08	0830M10130	▪ SCREW, Socket Hd	6
09	R9007292D1	▪ KIT,SEAL	1

ELECTRICAL INSTALLATION, LEVELING JACKS



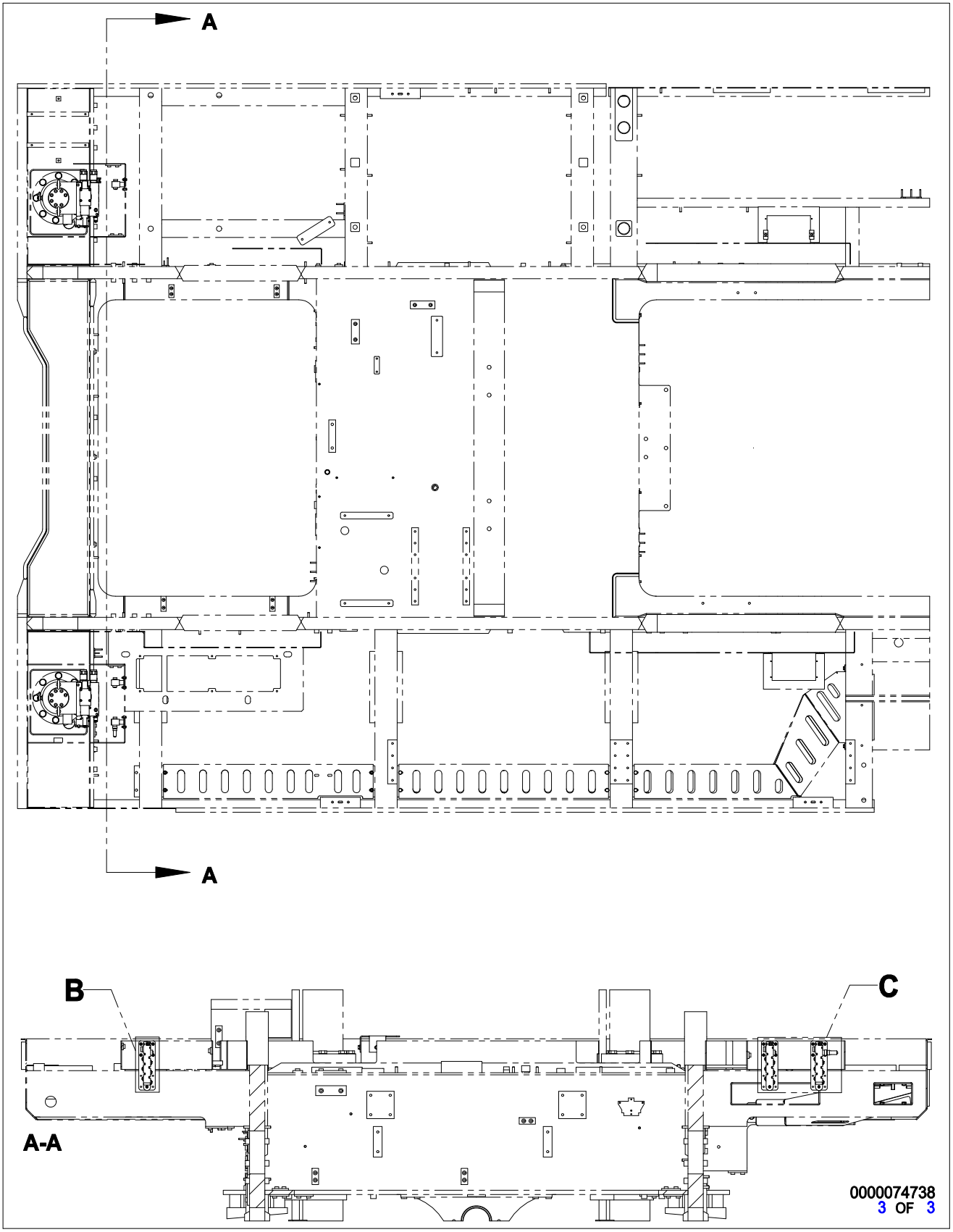
INSTALL,ELECTRICAL,JACKS

ELECTRICAL INSTALLATION, LEVELING JACKS



INSTALL,ELECTRICAL,JACKS

ELECTRICAL INSTALLATION, LEVELING JACKS

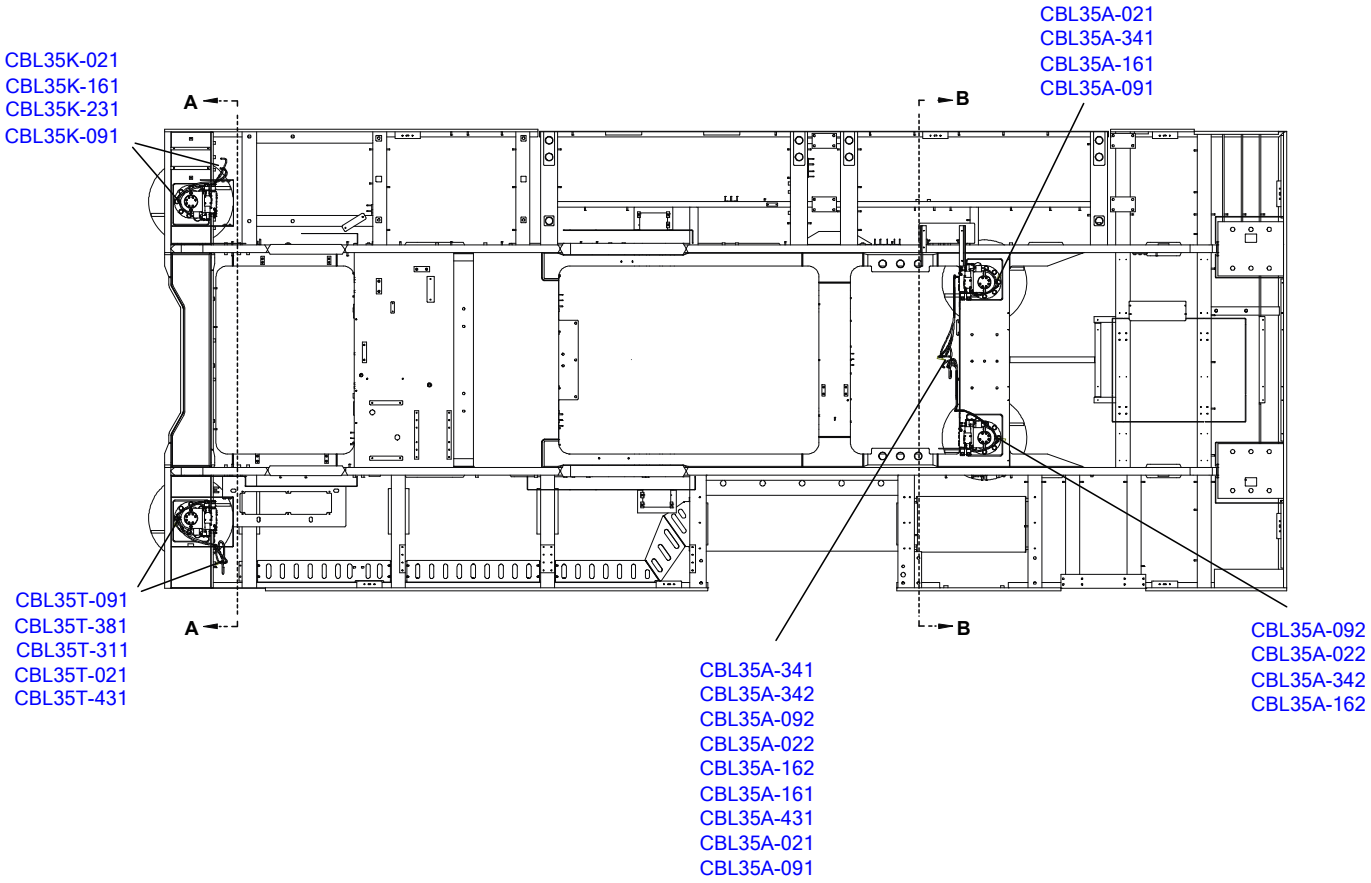


INSTALL,ELECTRICAL,JACKS

ELECTRICAL INSTALLATION, LEVELING JACKS

Item	Part No.	Description	Qty.
	R105067F1	ELECTRICAL INSTALLATION, LEVELING JACKS	
01	R109681D1	· BRACKET MOUNTING, Distribution Block	3
02		NOT USED	
03	R76316D2	· DISTRIBUTION BLOCK	3
04	R76245D1	· TERMINATING RESISTOR	1
05	R90562D1	· MAST CYLINDER LEFT BARREL PRESSURE XDCR	8
06		NOT USED	
07	R88247D1	· MOUNT, Single	9
08	R105150D1	· DECALS, Chassis Jacks	1
09		NOT USED	
10		NOT USED	
11	0825M08020	· BOLT, Hex Hd	8
12		NOT USED	
13	0825M10030	· BOLT, Hex Hd	1
14		NOT USED	
15	R82264D5	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	8
16	18Z3087D4	· WASHER, Conical Lock	1
17	0630M06055	· SCREW, Socket Head	6
18	0825M06020	· BOLT, Hex Hd	12
19	3612M006	· WASHER, Plain	24
20	2104M006	· NUT, Hex	12

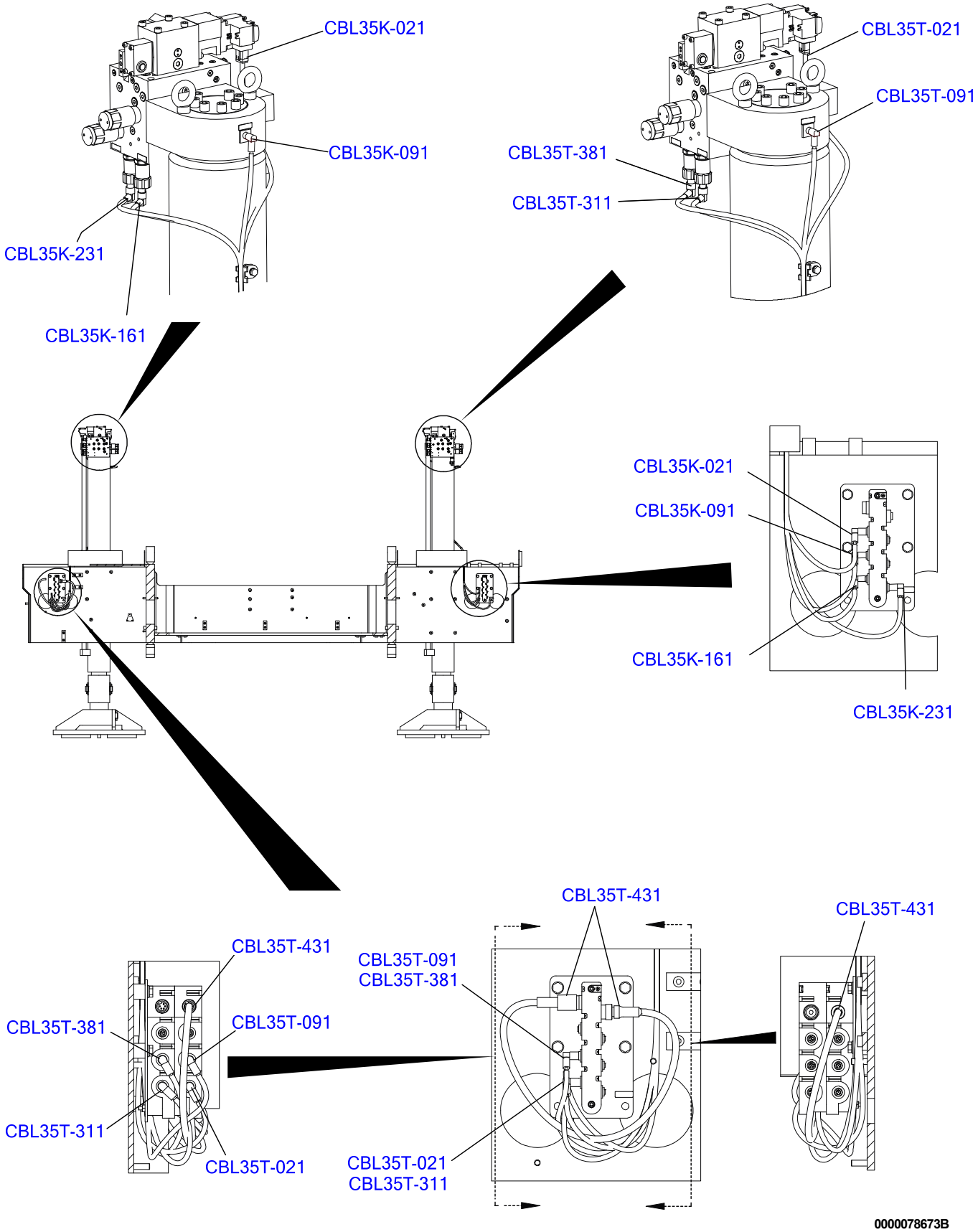
CABLE INSTALLATION, LEVELING JACKS



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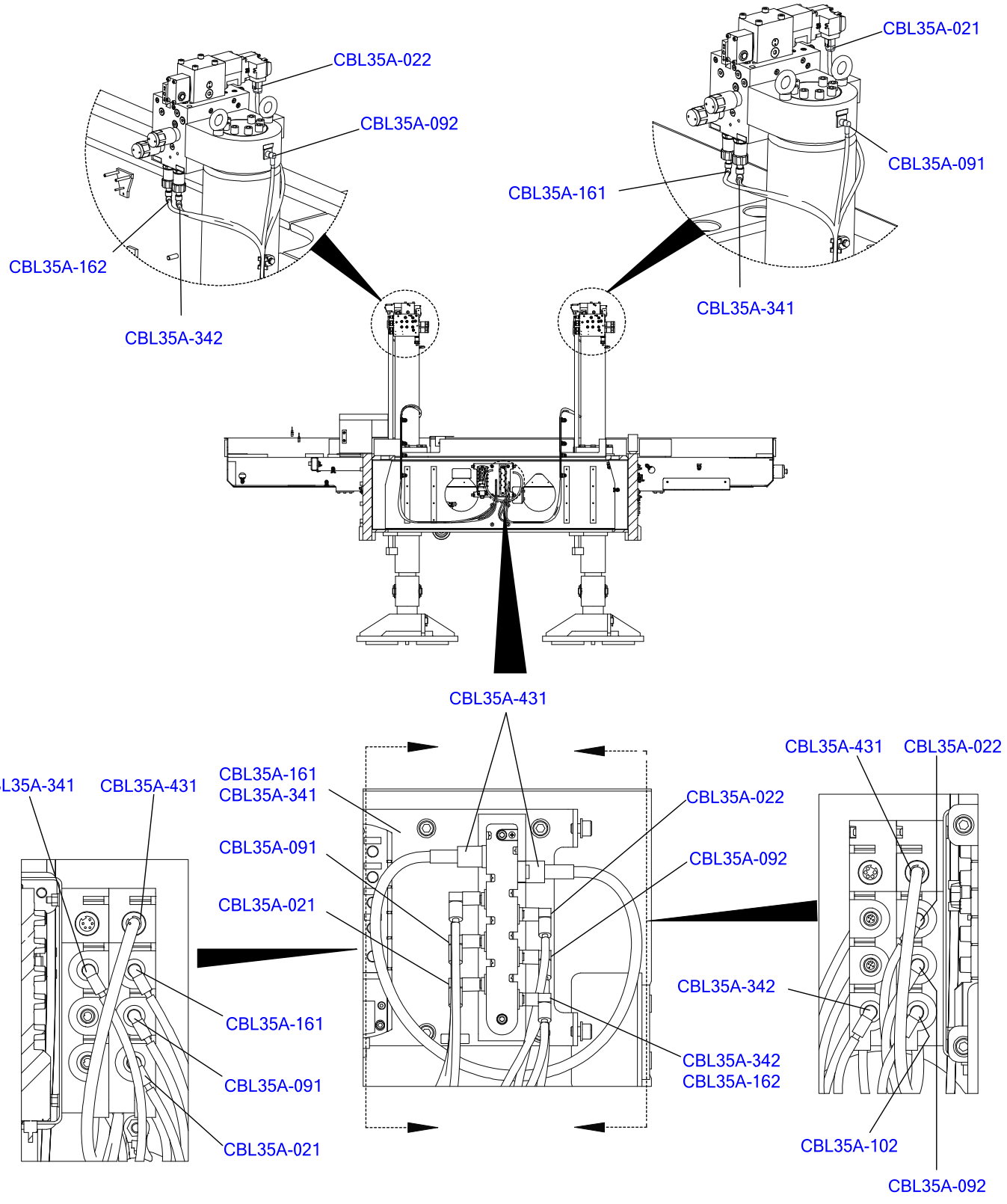
TOP VIEW

CABLE INSTALLATION, LEVELING JACKS



A-A REAR VIEW

CABLE INSTALLATION, LEVELING JACKS



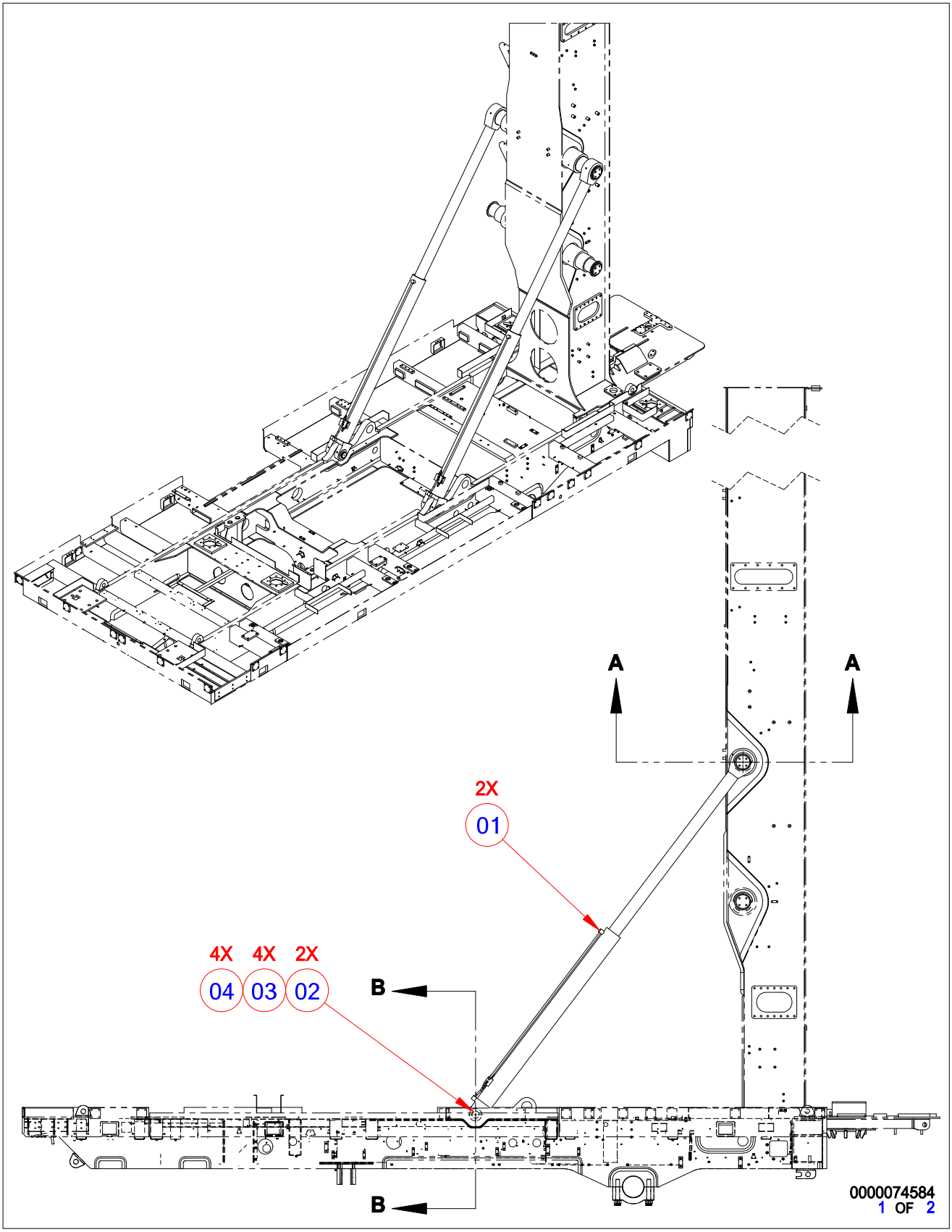
0000078673C

B-B FRONT VIEW

CABLE INSTALLATION, LEVELING JACKS

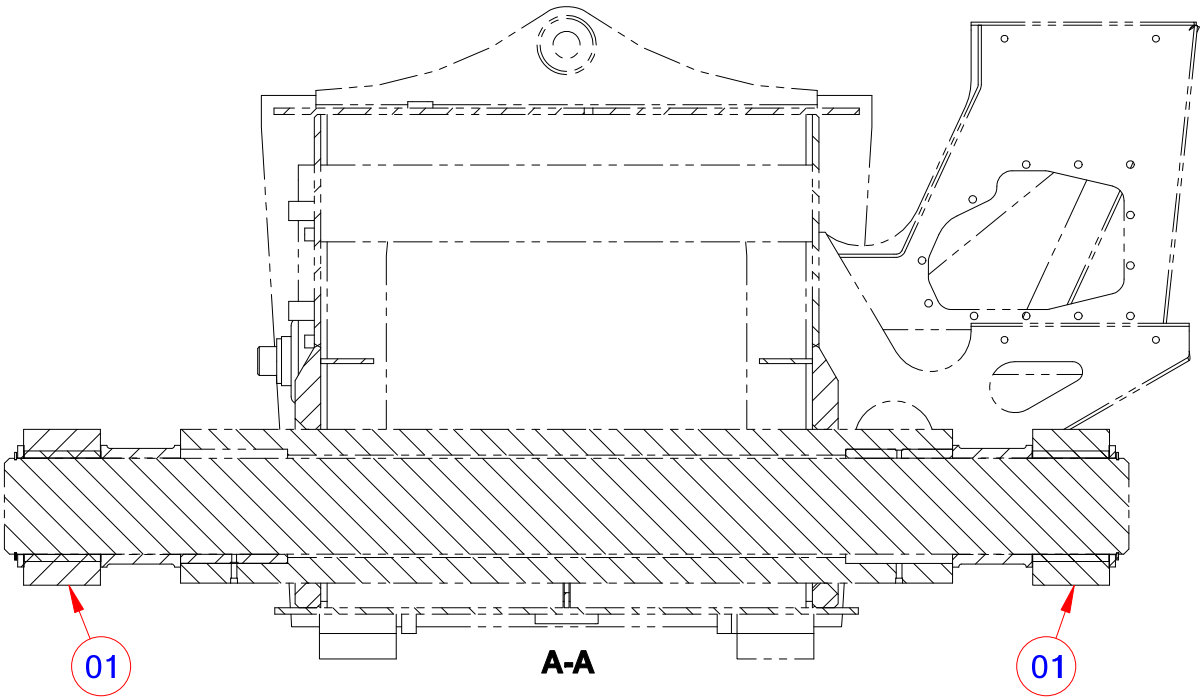
Item	Part No.	Description	Qty.
	R111038F36	CABLE INSTALLATION, LEVELING JACKS	
CBL35T-381	R90651T12D220	• CABLE	1
CBL35T-311	R90651T12D220	• CABLE	1
CBL35T-091	R90651T12D200	• CABLE	1
CBL35K-231	R90651T12D220	• CABLE	1
CBL35K-161	R90651T12D220	• CABLE	1
CBL35K-091	R90651T12D410	• CABLE	1
CBL35A-161	R90651T12D320	• CABLE	1
CBL35A-431	R90651T12D320	• CABLE	1
CBL35A-091	R90651T12D300	• CABLE	1
CBL35A-162	R90651T12D290	• CABLE	1
CBL35A-342	R90651T12D290	• CABLE	1
CBL35A-092	R90651T12D300	• CABLE	1
CBL35T-021	R90651T29D230	• CABLE	1
CBL35K-021	R90651T29D230	• CABLE	1
CBL35A-021	R90651T29D320	• CABLE	1
CBL35A-022	R90651T29D320	• CABLE	1
CBL35A-341	R90652T10D90	• CABLE	1
CBL35T-431	R90652T10D90	• CABLE	1
19	R88249D1	• TIE, Wire (Not Shown)	25

INSTALLATION, CYLINDER MAST RAISE

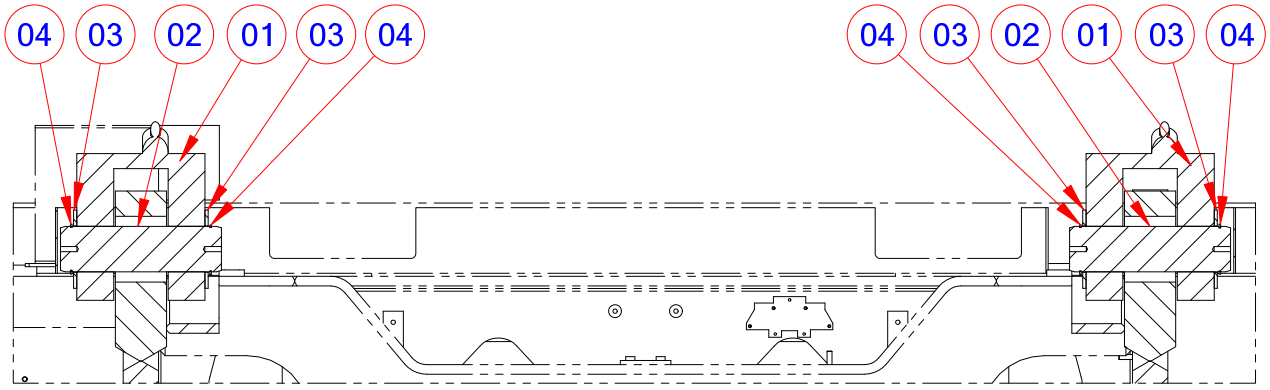


INSTL,CYLINDER,MAST RAISE

INSTALLATION, CYLINDER MAST RAISE



A-A



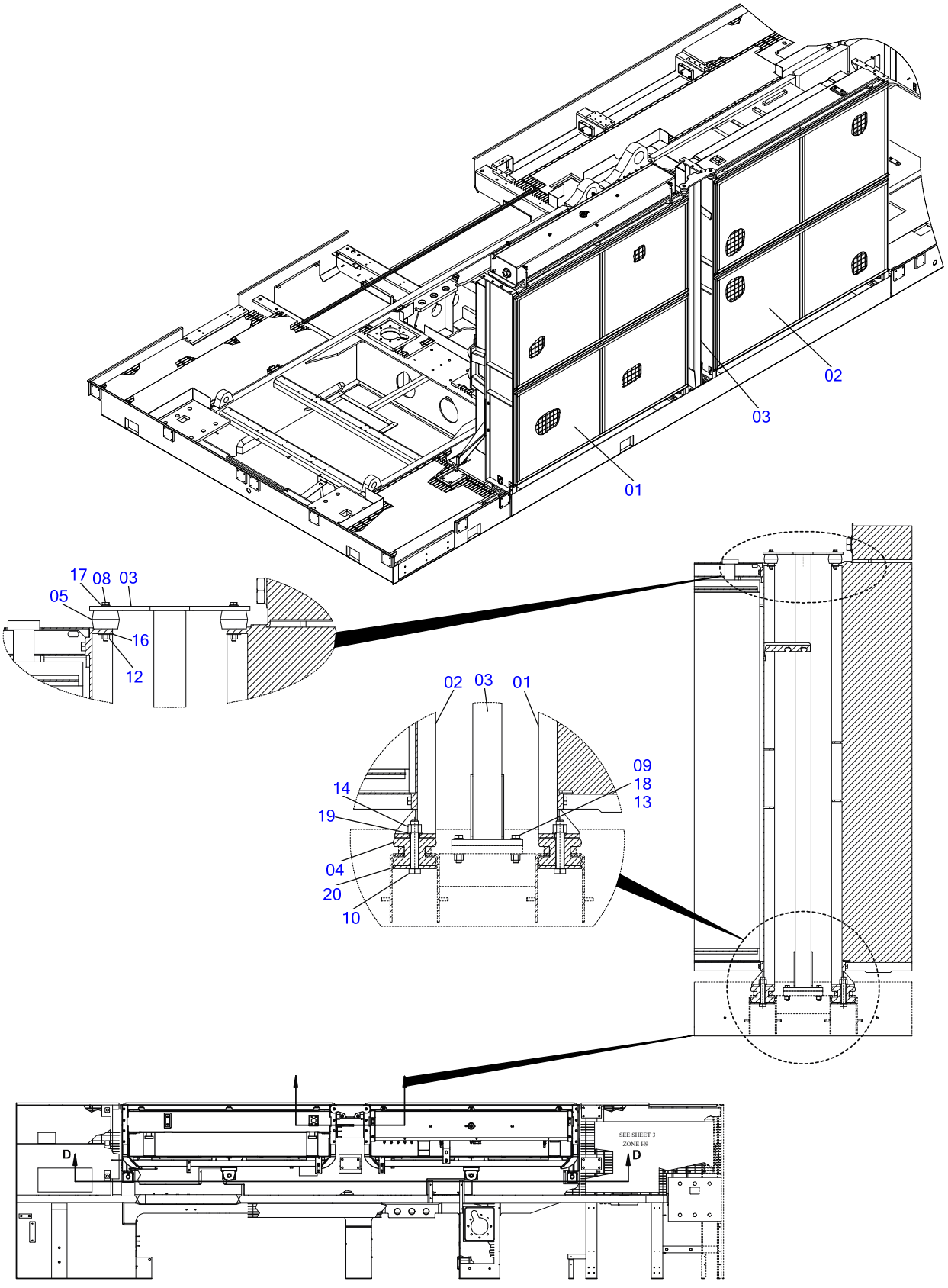
B-B

0000074584
2 OF 2

INSTALLATION, CYLINDER MAST RAISE

Item	Part No.	Description	Qty.
	R103197F1	INSTALLATION, CYLINDER MAST RAISE	
01	R90329D2	・CYLINDER, Mast Raise	2
01A	R89963D1	・・VALVE, Counterbalance	4
01B	R115397D1	・・SEAL KIT	2
02	R99006D1	・PIN	2
03	R89834D1	・WASHER, Thrust	4
04	R89724D90	・RING, Snap	4

INSTALLATION, SINGLE FAN COOLERS

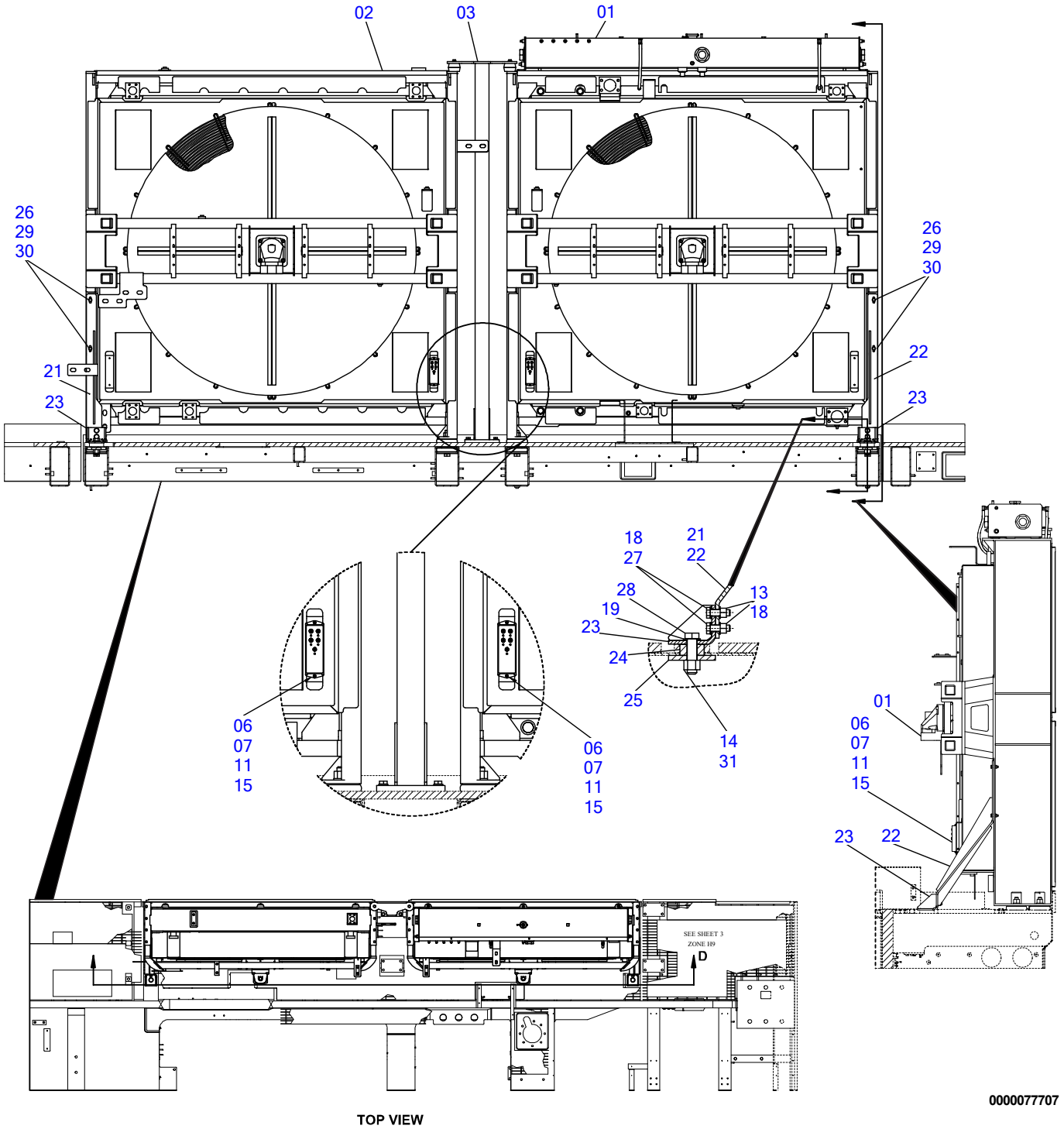


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TOP VIEW

INSTALLATION, SINGLE FAN COOLERS

INSTALLATION, SINGLE FAN COOLERS



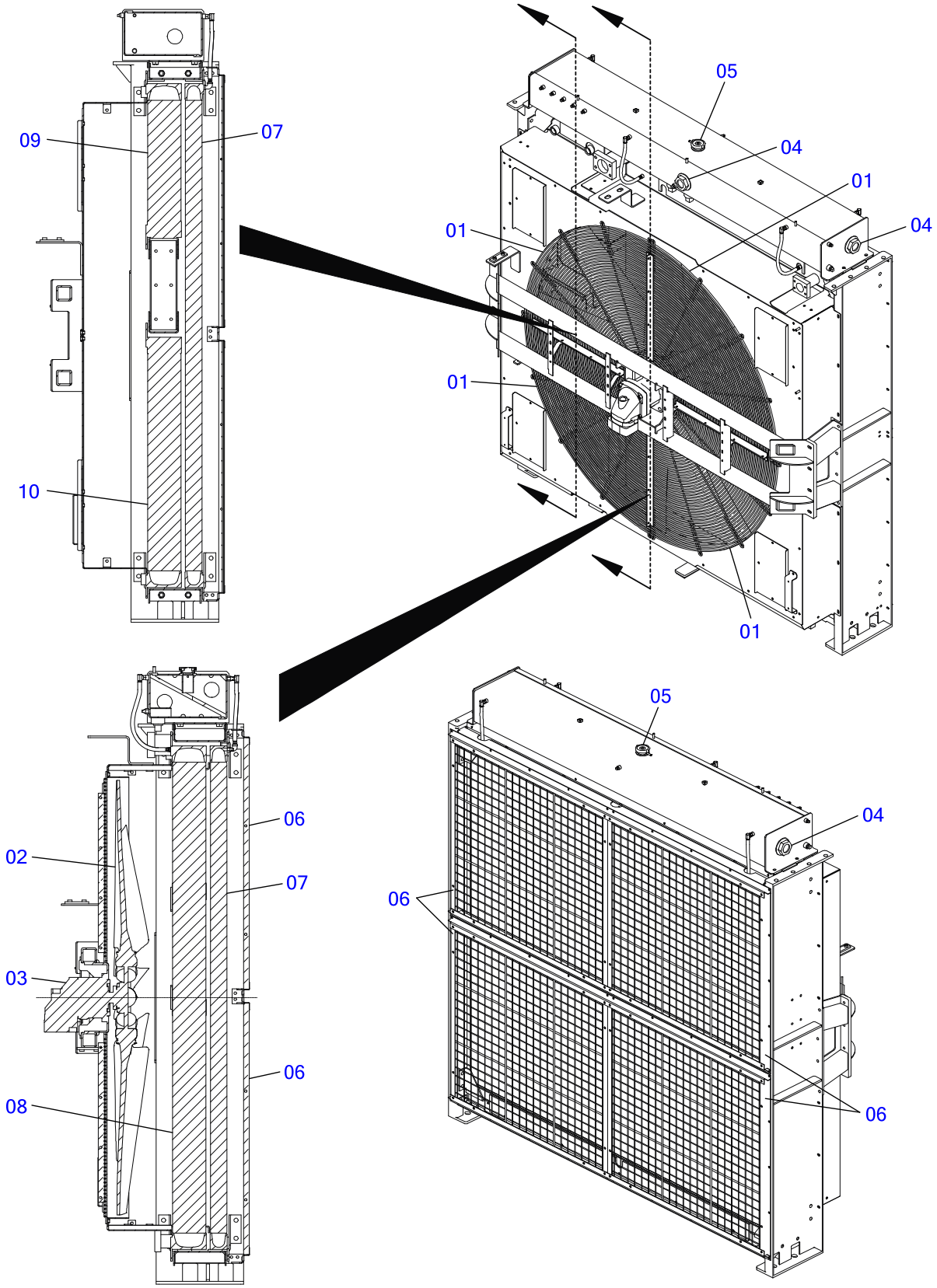
TOP VIEW

KOMATSU

INSTALLATION, SINGLE FAN COOLERS

Item	Part No.	Description	Qty.	Page
	R106998F1	INSTALLATION, SINGLE FAN COOLERS		
01	R105153D1	▪ RADIATOR ENGINE	1	25
02	R105154D1	▪ RADIATOR, Hydraulic/Main Compressor/Torque Converter	1	
03	R107409D1	▪ SUPPORT, Cooler Post	1	
04	R83014D1	▪ PAD, Isolation	8	
05	R99268D2	▪ ISOLATOR	4	
--	R99268D1	▪ ▪ ISOLATOR BUMPER	1	
06	R90742D1	▪ ENGINE I/O MODULE	2	
07	0630M04016	▪ SCREW, Socket Head	4	
08	0825M12100	▪ BOLT, Hex Hd	2	
09	0825M16075	▪ BOLT, Hex Hd	4	
10	0825M24150	▪ BOLT, Hex Hd	8	
11	2104M004	▪ NUT, Hex	4	
12	2104M012	▪ NUT, Hex	2	
13	2104M016	▪ NUT, Hex	8	
14	2104M024	▪ NUT, Hex	10	
15	3648M004	▪ WASHER, Flat	8	
16	3510M012	▪ WASHER, Plain	2	
17	3648M012	▪ WASHER, Hardened	2	
18	3648M016	▪ WASHER, Hardened	16	
19	3648M024	▪ WASHER, Hardened	10	
20	R74420D1	▪ WASHER, Two Piece Isolator	8	
21	R106018D1	▪ BRACE	1	
22	R106018D2	▪ BRACE	1	
23	R110694D1	▪ BRACKET MOUNT, Cooler Brace	2	
24	R110695D1	▪ SPACER	2	
25	R110969D1	▪ WASHER	2	
26	0825M10040	▪ BOLT, Hex Hd	4	
27	0825M16050	▪ BOLT, Hex Hd	4	
28	0825M24090	▪ BOLT, Hex Hd	2	
29	2104M010	▪ NUT, Hex	4	
30	3648M010	▪ WASHER, Hardened	8	
31	21Z772D4	▪ COMPOUND, Sealing and Locking	1	

RADIATOR, ENGINE TEMPERATURE, PDT AND FUEL



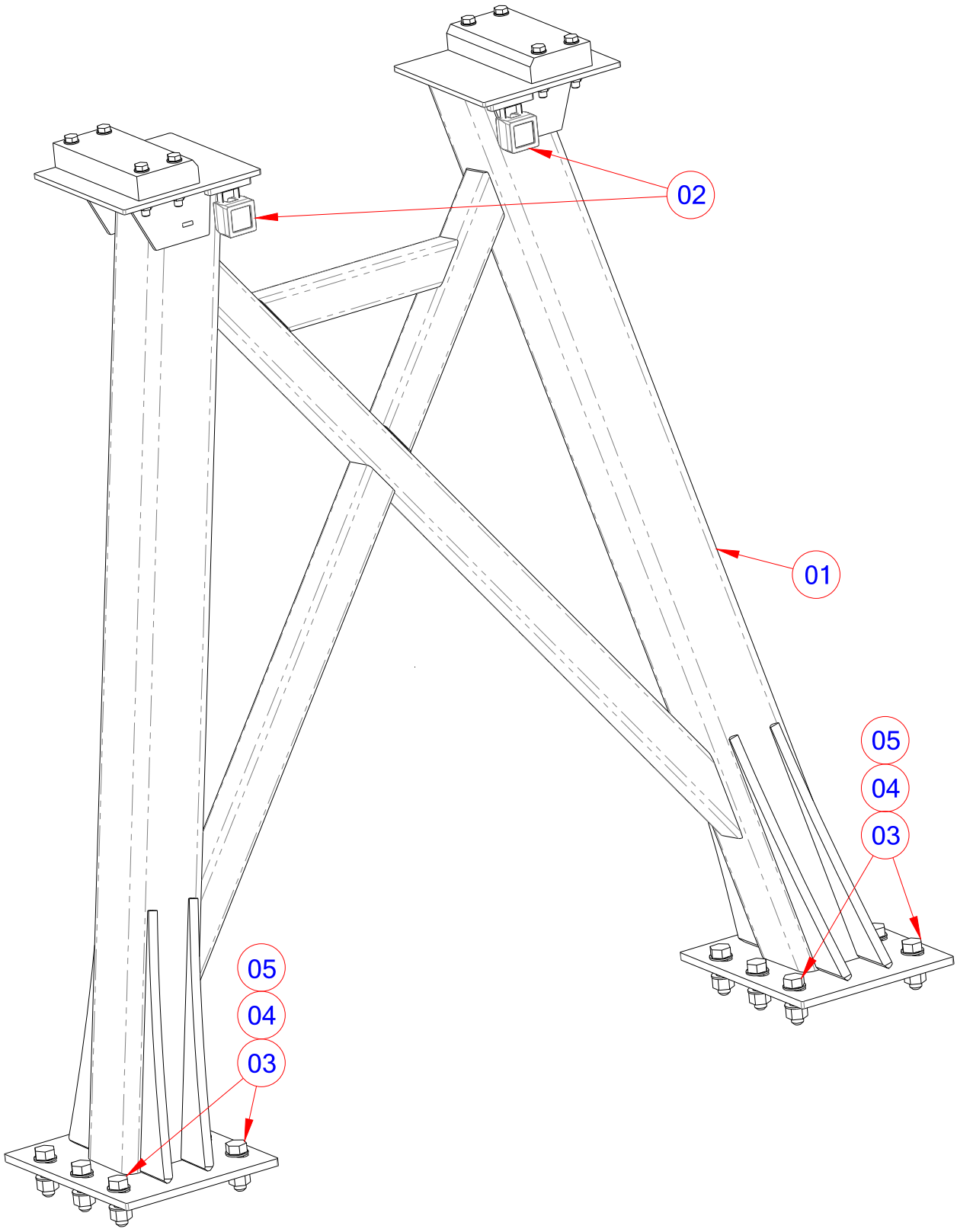
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RADIATOR, ENGINE TEMPERATURE, PDT AND FUEL

RADIATOR, ENGINE TEMPERATURE, PDT AND FUEL

Item	Part No.	Description	Qty.
	R105153D1	RADIATOR, ENGINE TEMPERATURE, PDT AND FUEL	1
01	R110785D1	· GUARD, Radiator Fan, Quarter	4
02	R110786D1	· FAN, 72in, 8 Blade	1
03	R110787D1	· MOTOR, Hydraulic	1
04	R110788D1	· SIGHT GLASS, Level	3
05	R110789D1	· CAP, Pressure, Radiator	1
06	R110790D1	· GUARD, Radiator Core	4
07	R110781D1	· CORE, Engine, High Temperature Circuit	1
08	R110782D1	· CORE, Engine, Low Temperature Circuit	1
09	R110783D1	· CORE, Engine, Fuel	1
10	R110784D1	· CORE, Pump Drive Transmission	1

MAST REST



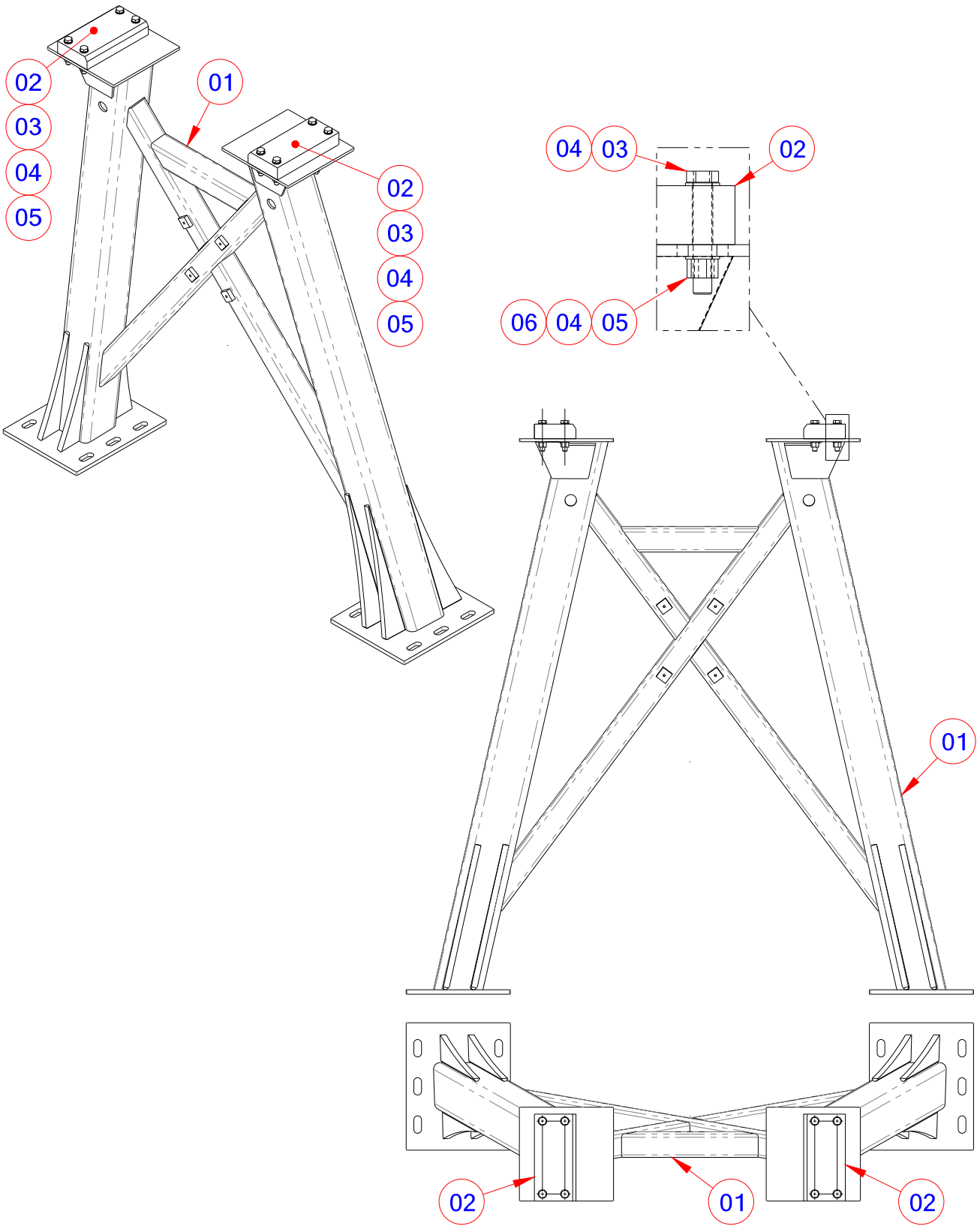
0000074276
1 OF 1

GROUP LEVEL, MAST REST

MAST REST

Item	Part No.	Description	Qty.	Page
	R90018F1	MAST REST		
01	R98827F1	▪ MAST REST ASSEMBLY	1	27
02	R90236F1	▪ ELECTRICAL ASSEMBLY	1	28
03	0825M30100	▪ BOLT, Hex Hd	12	
04	3648M030	▪ WASHER, Hardened	24	
05	2104M030	▪ NUT, Hex	12	

MAST REST ASSEMBLY



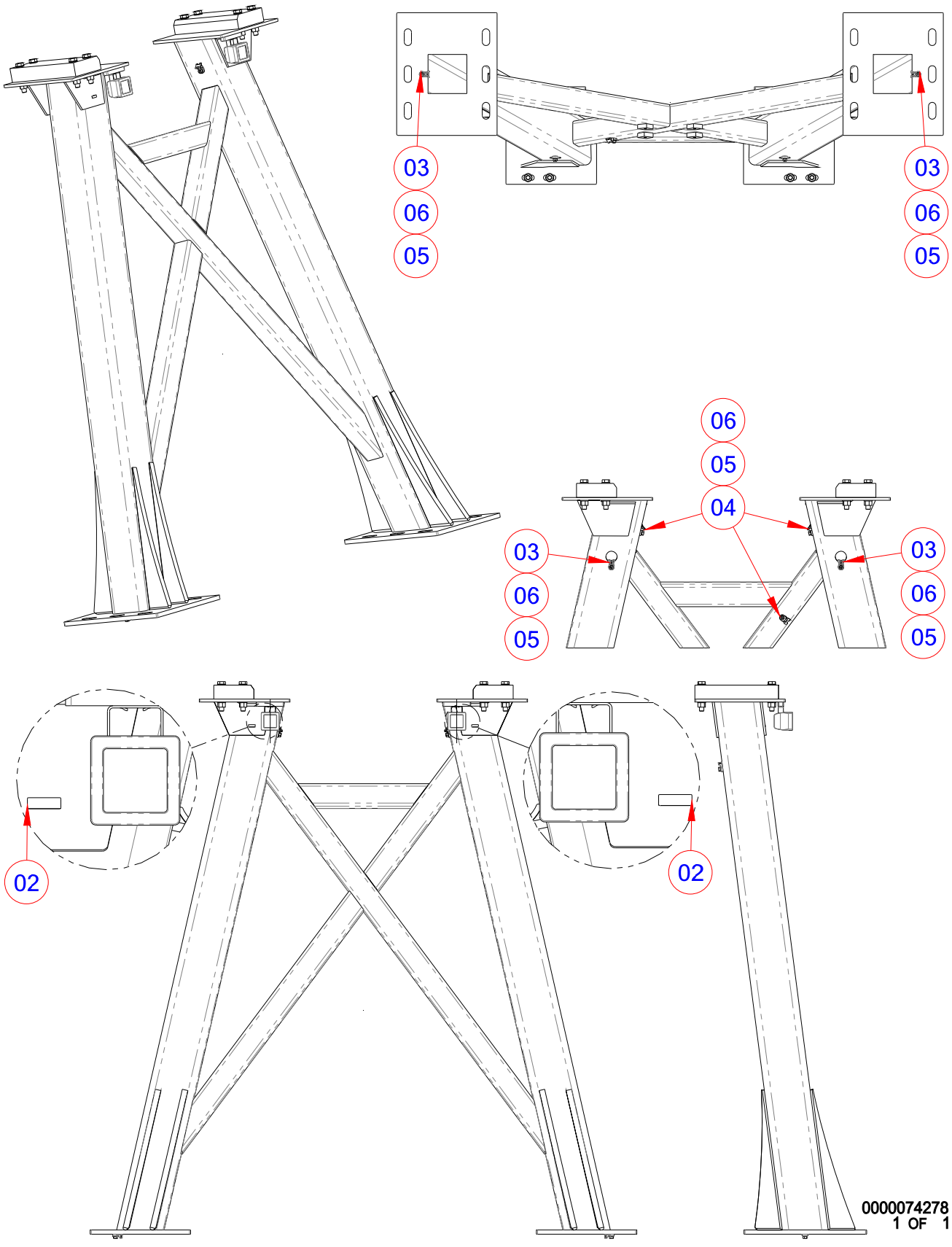
0000074277
1 OF 1

MAST REST ASSEMBLY

MAST REST ASSEMBLY

Item	Part No.	Description	Qty.
	R98827F1	MAST REST ASSEMBLY	
01	R90104D2	▪ MAST REST, Single Pass	1
02	R90019D1	▪ MAST REST BLOCK	2
03	0825M20120	▪ BOLT, Hex Hd	8
04	3648M020	▪ WASHER, Hardened	16
05	2104M020	▪ NUT, Hex	8
06	21Z772D6	▪ ADHESIVE, Thread	1

ELECTRICAL ASSEMBLY, MAST REST

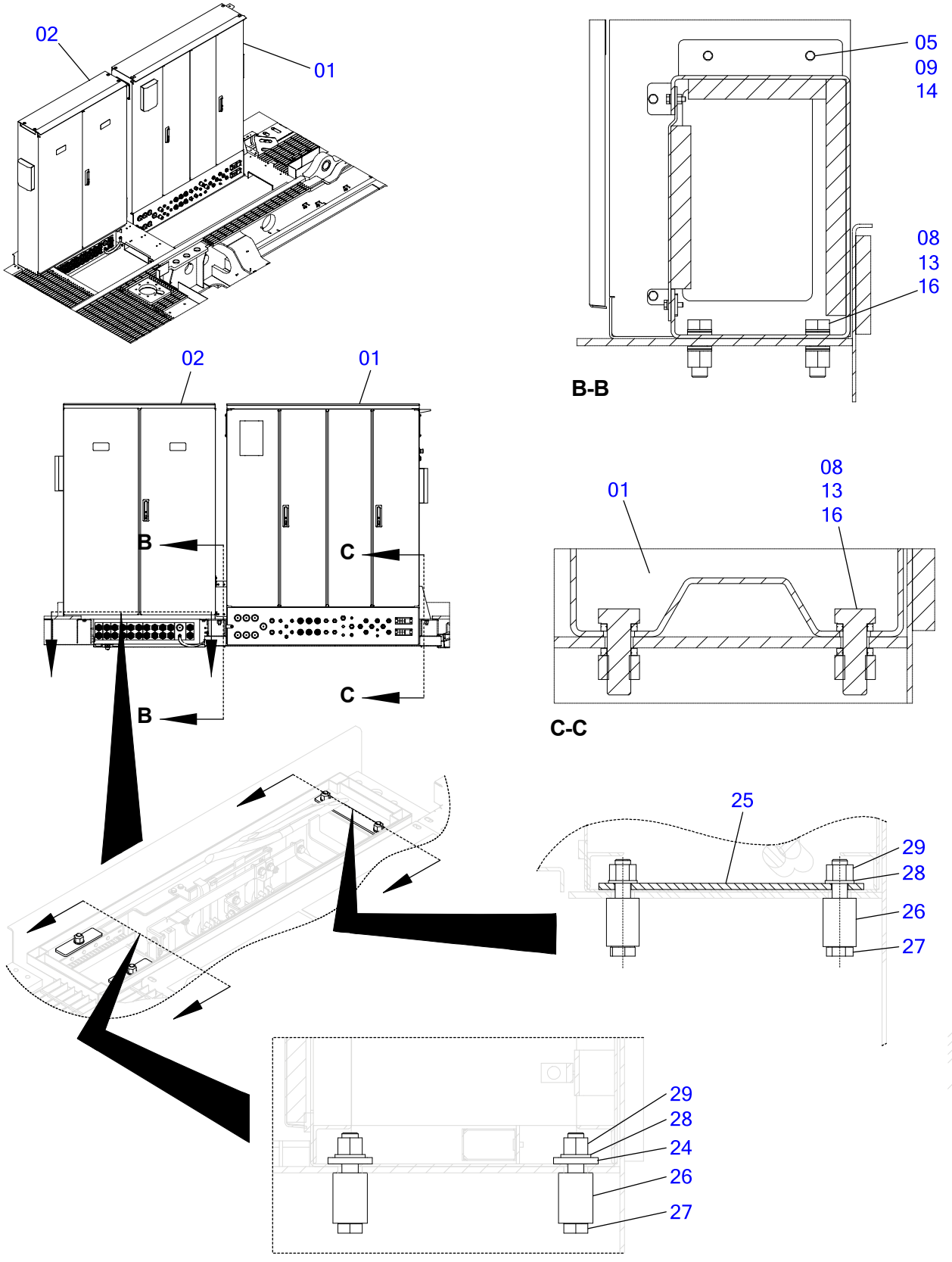


ELECTRICAL ASSEMBLY, MAST REST

ELECTRICAL ASSEMBLY, MAST REST

Item	Part No.	Description	Qty.
	R90236F1	ELECTRICAL ASSEMBLY, MAST REST	
01	R97643D1	▪ FLOODLIGHT, LED (Not Shown)	2
02	21Z772D4	▪ COMPOUND	1
03	R99173D1	▪ DECALS	1
04	R90641D1	▪ MOUNT, Cable	4
05	R88247D1	▪ MOUNT, Single	3
06	18Z3087D4	▪ WASHER, Lock	7
07	2104M010	▪ NUT, Hex (Not Shown)	7

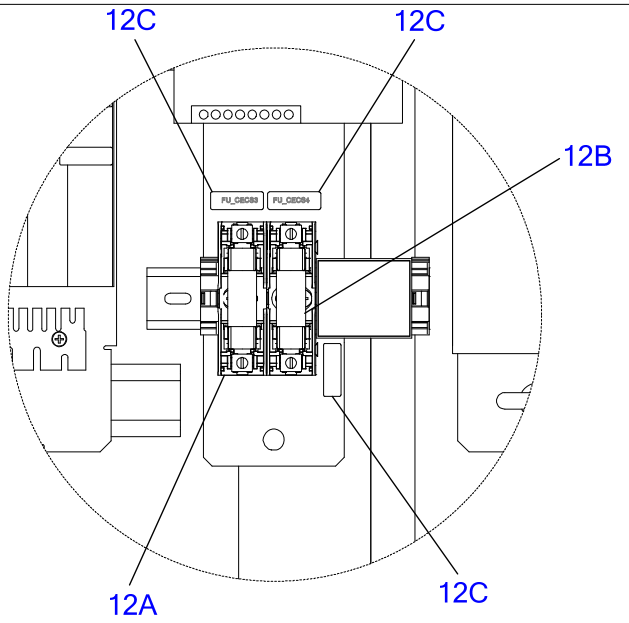
INSTALLATION, MAIN I/O AND BATTERY BOX

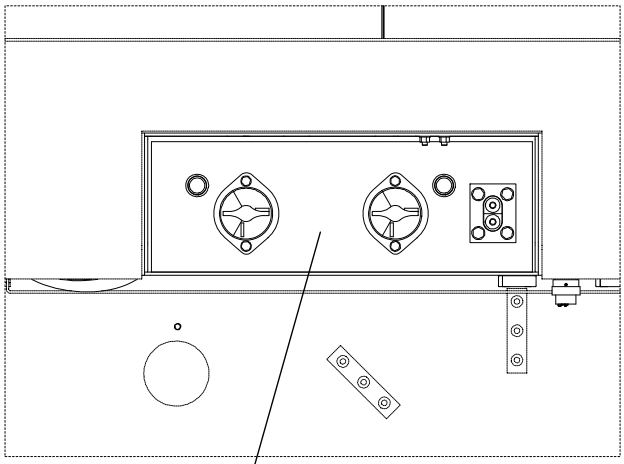


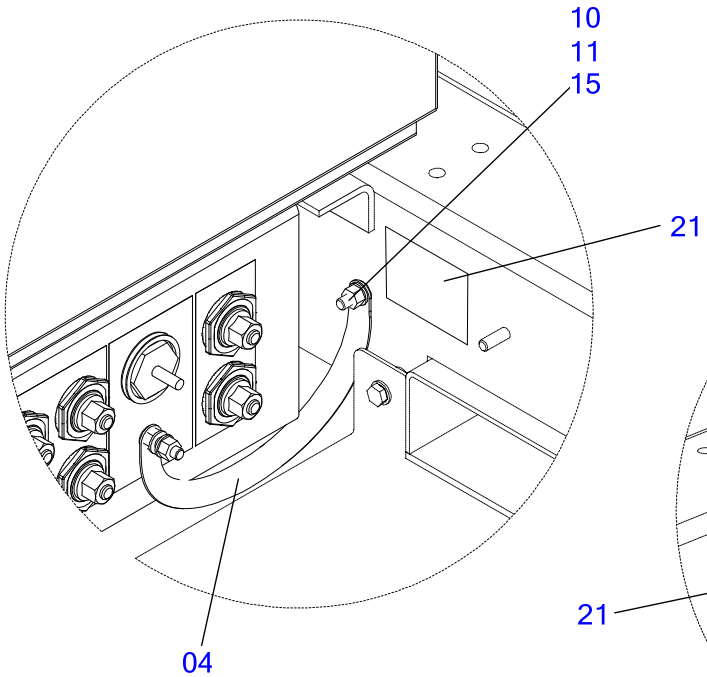
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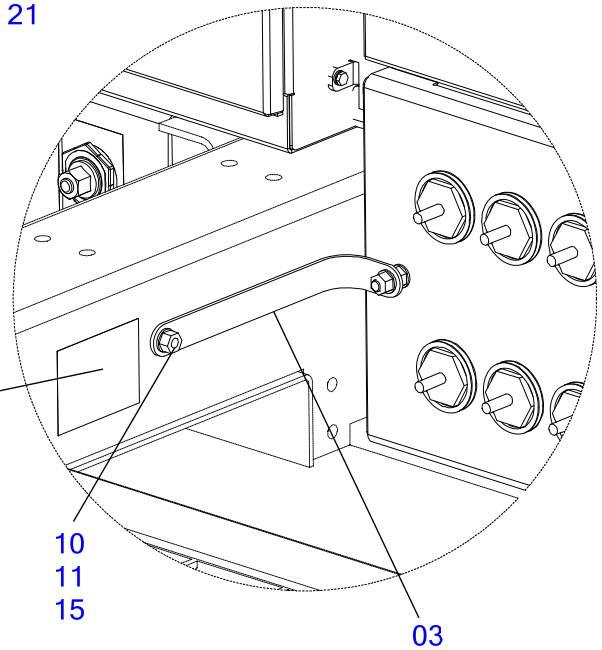
CABINET INSTALLATION, MAIN I/O & BATTERY BOX

INSTALLATION, MAIN I/O AND BATTERY BOX









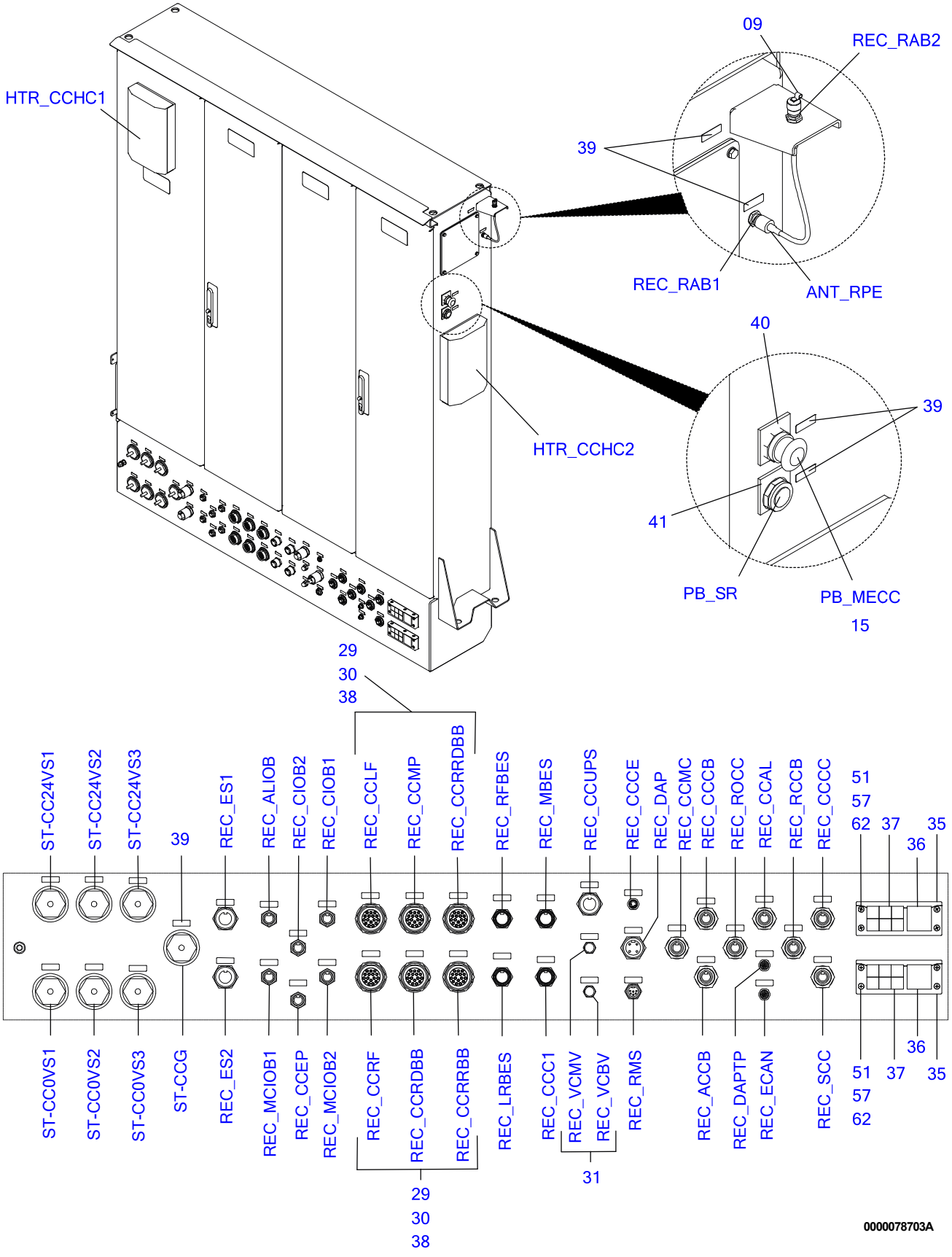
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GROUND STRAP AND DISCONNECT PANEL DECAL PLACEMENT

INSTALLATION, MAIN I/O AND BATTERY BOX

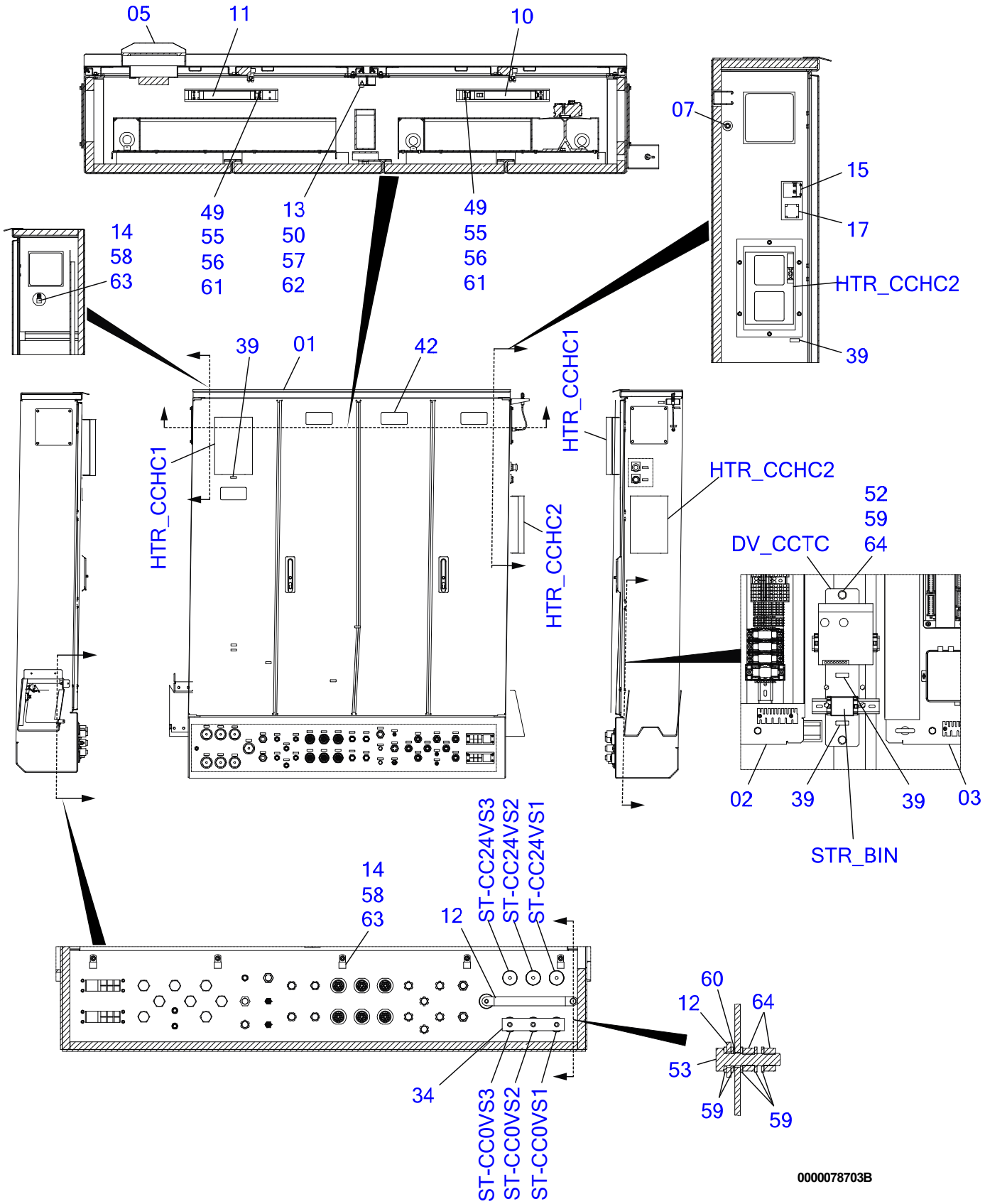
Item	Part No.	Description	Qty.	Page
	R108478F2	INSTALLATION, MAIN I/O AND BATTERY BOX		
		NOTE: This assembly has been mofified by kit R9004251F1 and is not as originally supplied. Order parts separately.		
01	R108044F1	· ASSEMBLY, Control Cabinet	1	30
02	R112937F2	· ASSEMBLY, Battery Cabinet	1	41
03	R99323D1	· GROUND STRAP, MBJ Braid	1	
04	R72153D1	· STRAP, Ground	1	
05	0825M06020	· BOLT, Hex Hd	4	
07	0825M20060	· BOLT, Hex Hd	4	
08	3612M006	· WASHER, Plain	8	
09	3612M010	· WASHER, Plain	4	
10	R106890D010	· WASHER, Lock, External Tooth	2	
11	R82264D23	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	8	
12	R115060F1	· FUSE ASSEMBLY, Control Cabinet - Tier 4 (Not Shown)	1	
12A	R23969D5	· · FUSE BLOCK, 2 Pole	1	
12B	79U2594D4	· · FUSE, 10A	2	
12C	R114984D1	· · DECALS, Fuse Block	1	
12D	R115060F1Y1	· · CABLE, 12AWG (Not Shown)	1	
13	2104M006	· NUT, Hex	4	
14	2104M010	· NUT, Hex	2	
15	2104M020	· NUT, Hex	4	
16	R111038F21	· WIRE LIST, Control and Battery Cabinet Interconnect (Not Shown)	1	57
18	R119729F1	· HEATER/COOLER AMBIENT FAN WIRING (Not Shown)	1	
19	R119279D1	· DECALS, Disconnect Panel (Not Shown)	1	
20	R119728F1	· INSTALLATION, Main Cabinet Sealant (Not Shown)	1	
21	R120495D1	· DECAL, Ground Disconnect	2	
22	R9004592F1	· DECALS, Cabinet Fuse List (Not Shown)	1	58
23	R9004251F2	· REINFORCEMENT KIT, Battery Cabinet	1	
24	R9004250D1	· · FLAT, Reinforcement	2	
25	R9004252D1	· · FLAT, Reinforcement	1	
26	R107799D16050	· · SPACER, Bolt	4	
27	0825M16090	· · BOLT, Hex Hd	4	
28	3648M016	· · WASHER, Hardened	4	
29	2104M016	· · NUT, Hex	4	

ASSEMBLY, CONTROL CABINET



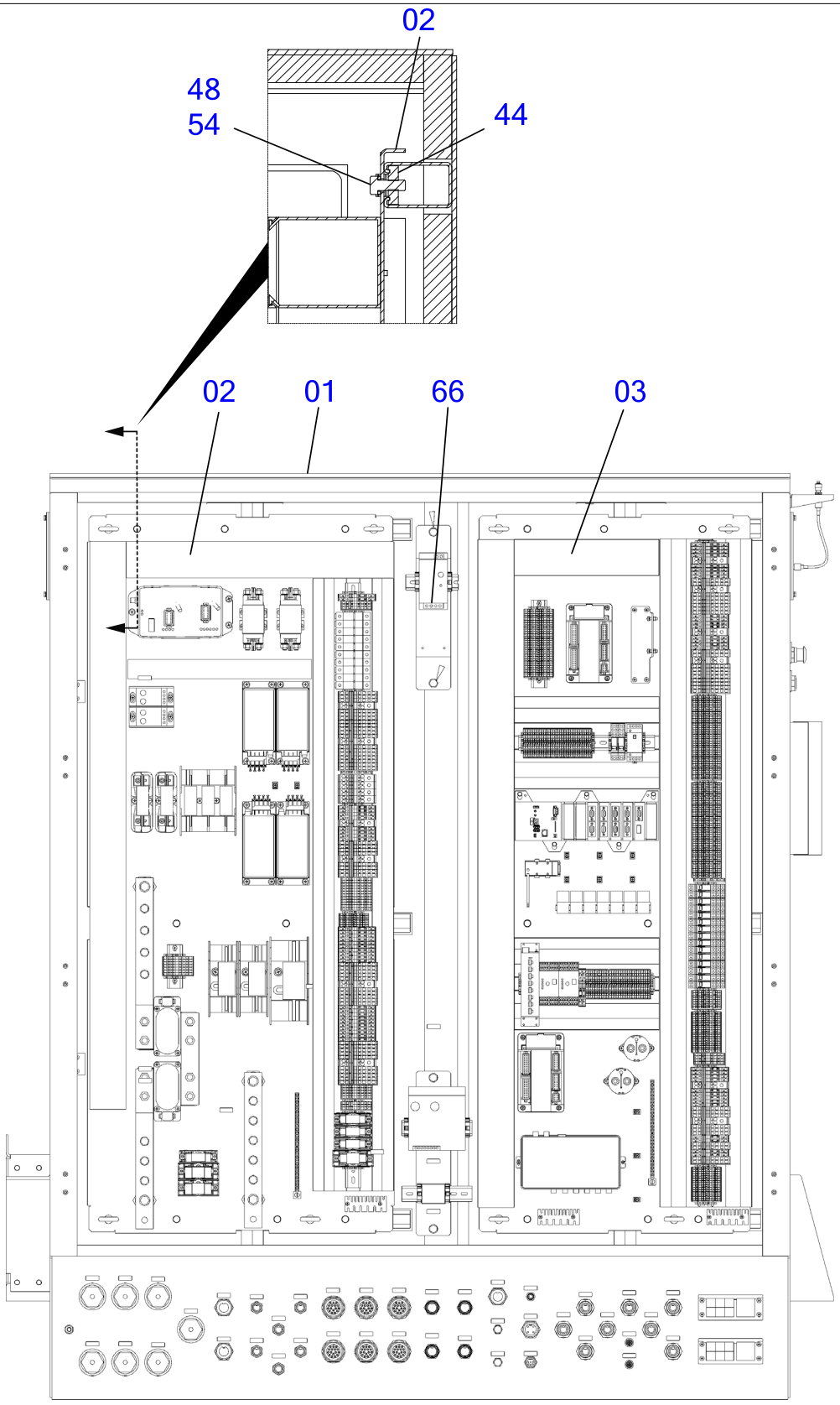
ASSEMBLY, CONTROL PANEL

ASSEMBLY, CONTROL CABINET



ASSEMBLY, CONTROL PANEL CONT.

ASSEMBLY, CONTROL CABINET



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ASSEMBLY, CONTROL PANEL CONT.

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ASSEMBLY, CONTROL CABINET

Item	Part No.	Description	Qty.	Page
	R108044F1	ASSEMBLY, CONTROL CABINET	1	
01	R108075F1	· CABINET, Main I/O	1	31
02	R108043F1	· CONTROL, Panel 1	1	35
03	R108003F1	· CONTROL, Panel 2	1	37
04	R110822F1	· THERMOSTAT ASSEMBLY	1	39
DV_CCTC		· THERMOSTAT ASSEMBLY (To Schematic)	1	
HTR_CCHC1	R109022D2	· HEATER/COOLER, Thermoelectric	1	
HTR_CCHC2	R109022D2	· HEATER/COOLER, Thermoelectric	1	
06		NOT USED		
REC_RAB1	R93284D3	· ADAPTER, TNC Female Bulkhead	1	
REC_RAB2	R93284D3	· ADAPTER, TNC Female Bulkhead	1	
ANT_RPE	R90664D1	· CABLE, TNC Male	1	
09	R93284D2	· CAP, TNC	1	
10	R95883D8	· LIGHT BAR, LED	1	
11	R95883D2	· LIGHT BAR, LED	1	
12	R99323D1	· GROUND STRAP, MBJ Braid	1	
13	32Z423D13	· CLAMP, Insulated	1	
14	32Z423D6	· CLAMP, Insulated	6	
15	79Z2721D7	· CONTACT BLOCK	1	
PB_MECC	79Z2717D60	· PUSH BUTTON, E-STOP	1	
PB_SR	79Z2717D5	· PUSHBUTTON, Momentary Yellow	1	
REC_CCMC	R90652T65D300	· CABLE, 5 Pin	1	
REC_CCCB	R90652T65D300	· CABLE, 5 Pin	1	
REC_ROCC	R90652T65D300	· CABLE, 5 Pin	1	
REC_CCAL	R90652T65D300	· CABLE, 5 Pin	1	
REC_RCCB	R90652T65D300	· CABLE, 5 Pin	1	
REC_CCCC	R90652T65D300	· CABLE, 5 Pin	1	
REC_ACCB	R90652T65D300	· CABLE, 5 Pin	1	
REC_SCC	R90652T65D300	· CABLE, 5 Pin	1	
REC_DAPTP	R110938D1	· BULKHEAD	1	
REC_ECAN	R110938D1	· BULKHEAD	1	
REC_CCCE	R113922D1	· CABLE, 4 Pin	1	
REC_DAP	R110301D1	· RECEPTACLE, Female	1	
REC_RMS	R110313D1	· RECEPTACLE, Female	1	
REC_ES1	R90654T65D300	· CABLE, 3 Pin	1	
REC_ES2	R90654T65D300	· CABLE, 3 Pin	1	
REC_CCUPS	R90654T65D300	· CABLE, 3 Pin	1	
REC_VCMV	R81997D1	· CONNECTOR, Bulkhead	1	
REC_VCBV	R81997D1	· CONNECTOR, Bulkhead	1	
REC_RFBES	R4265239	· CONNECTOR, Female	1	

KOMATSU

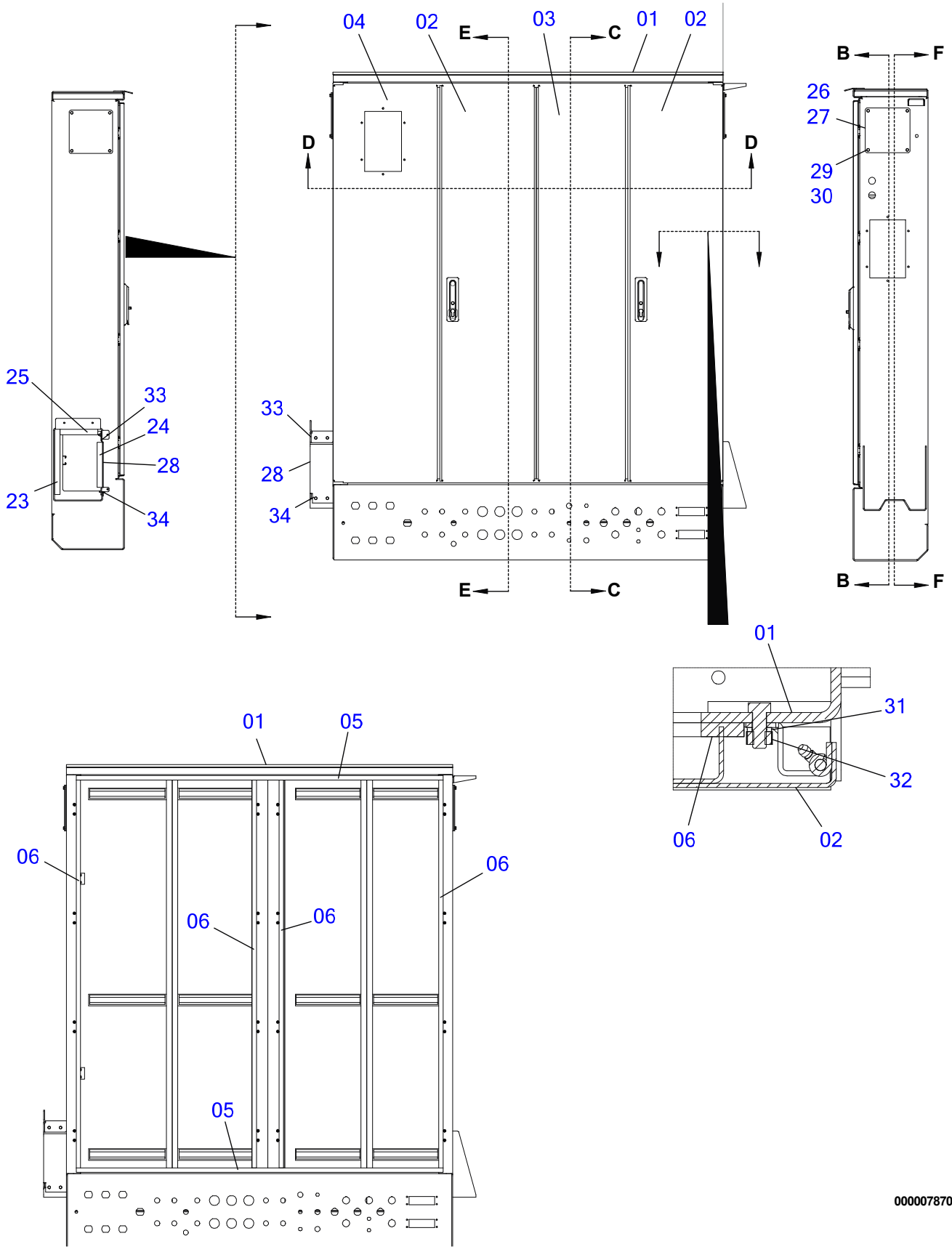
ASSEMBLY, CONTROL CABINET

Item	Part No.	Description	Qty.	Page
REC_MBES	R4265239	· CONNECTOR, Female	1	
REC_LRBES	R4265239	· CONNECTOR, Female	1	
REC_CCC1	R4265239	· CONNECTOR, Female	1	
REC_CCLF	R90727D10	· BULKHEAD, Female	1	
REC_CCMP	R90727D10	· BULKHEAD, Female	1	
REC_CCRRDBB	R90727D10	· BULKHEAD, Female	1	
REC_CCRF	R90727D10	· BULKHEAD, Female	1	
REC_CCRDBB	R90727D10	· BULKHEAD, Female	1	
REC_CCRRBB	R90727D10	· BULKHEAD, Female	1	
REC_ALIOB	R4282738	· RECEPTACLE, Female	1	
REC_CIOB2	R4282738	· RECEPTACLE, Female	1	
REC_CIOB1	R4282738	· RECEPTACLE, Female	1	
REC_MCIOB1	R4282738	· RECEPTACLE, Female	1	
REC_CCEP	R4282738	· RECEPTACLE, Female	1	
REC_MCIOB2	R4282738	· RECEPTACLE, Female	1	
28		NOT USED		
29	R90727D5	· CONNECTOR, Lock Washer	6	
30	R90727D6	· CONNECTOR, Nut	6	
31	R4255434	· CAP, Connector	2	
ST-CC24VS1	R80716D1	· BULKHEAD, Power Stud, Red	1	
ST-CC24VS2	R80716D1	· BULKHEAD, Power Stud, Red	1	
ST-CC24VS3	R80716D1	· BULKHEAD, Power Stud, Red	1	
ST-CC0VS1	R80717D1	· BULKHEAD, Power Stud, Black	1	
ST-CC0VS2	R80717D1	· BULKHEAD, Power Stud, Black	1	
ST-CC0VS3	R80717D1	· BULKHEAD, Power Stud, Black	1	
ST-CCG	R80717D1	· BULKHEAD, Power Stud, Black	1	
34	R108677D1	· BUS BAR	1	
35	R108701D2	· FRAME, Strain Relief	2	
36	R108703D20	· GROMMET, Large	2	
37	R108702D18	· GROMMET, Small	12	
38	R92458D6	· CONTACT SOCKET, Plug	121	
39	R108424D1	· DECALS, Control Cabinet (Sheet. Contains shown decals.)	1	
40	R90729D3	· NAMEPLATE, Emergency Stop, Yellow	1	
41	R90729D4	· NAMEPLATE, System Reset	1	
42	R89992D1	· DECAL, Warning, Electrical Hazard	4	
STR_BIN	R111315F1	· KIT, Spare Fuse	1	
44	20Z2097D5	· NUT, w/ Spring	16	
45		NOT USED		
46		NOT USED		
47		NOT USED		

ASSEMBLY, CONTROL CABINET

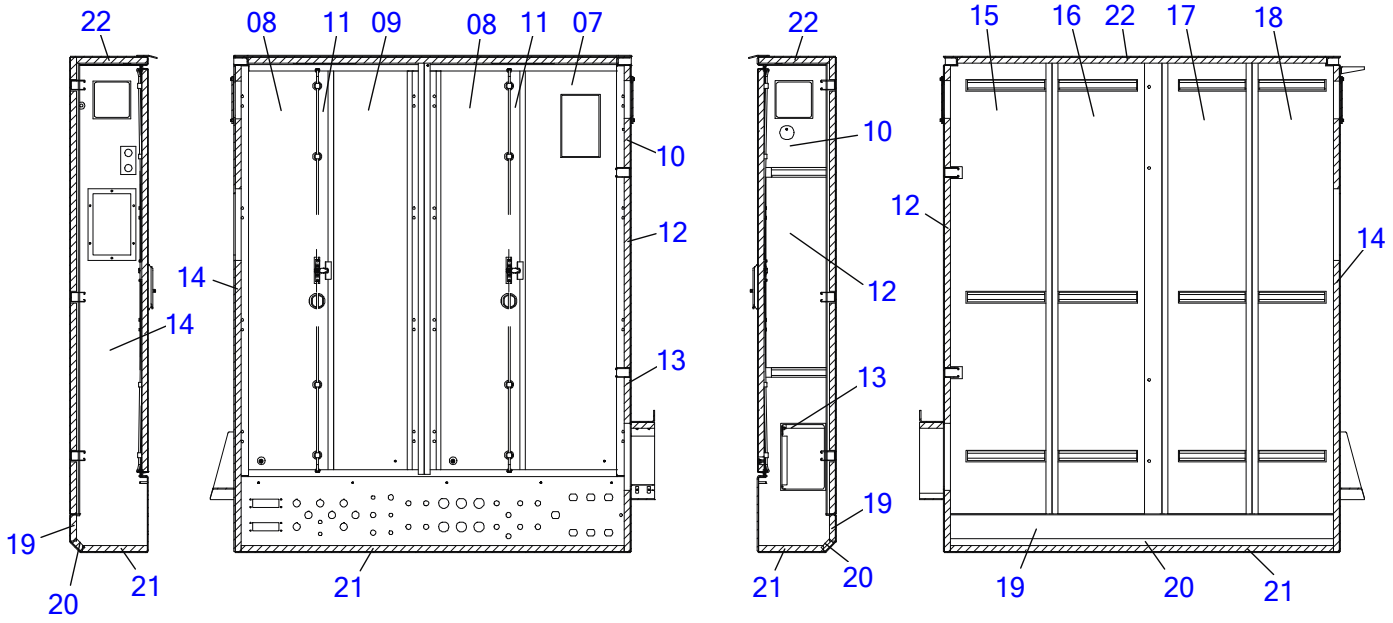
Item	Part No.	Description	Qty.	Page
48	20Q260D258	· BOLT, Hex Head	16	
49	0856M04016	· SCREW, Pan Head	8	
50	0856M05016	· SCREW, Pan Head	1	
51	0856M05025	· SCREW, Pan Head	8	
52	0825M10025	· BOLT, Hex Head	2	
53	0825M10045	· BOLT, Hex Head	1	
54	R82264D6	· WASHER, Lock	16	
55	3612M004	· WASHER, Flat	8	
56	3615M004	· WASHER, Lock	8	
57	3612M005	· WASHER, Flat	9	
58	3612M008	· WASHER, Flat	6	
59	3612M010	· WASHER, Flat	9	
60	R106890D010	· WASHER, Lock	1	
61	2104M004	· NUT, Hex	8	
62	2104M005	· NUT, Hex	9	
63	2104M008	· NUT, Hex	7	
64	2104M010	· NUT, Hex	4	
65	R111038F38	· WIRE LIST, Control Cabinet (Not Shown)	1	40
66	R114531F1	· BUFFER ASSEMBLY	1	

CABINET, MAIN I/O

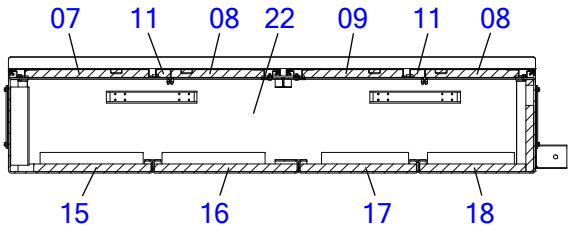


CABINET, MAIN I/O

CABINET, MAIN I/O



C-C B-B E-E F-F



D-D

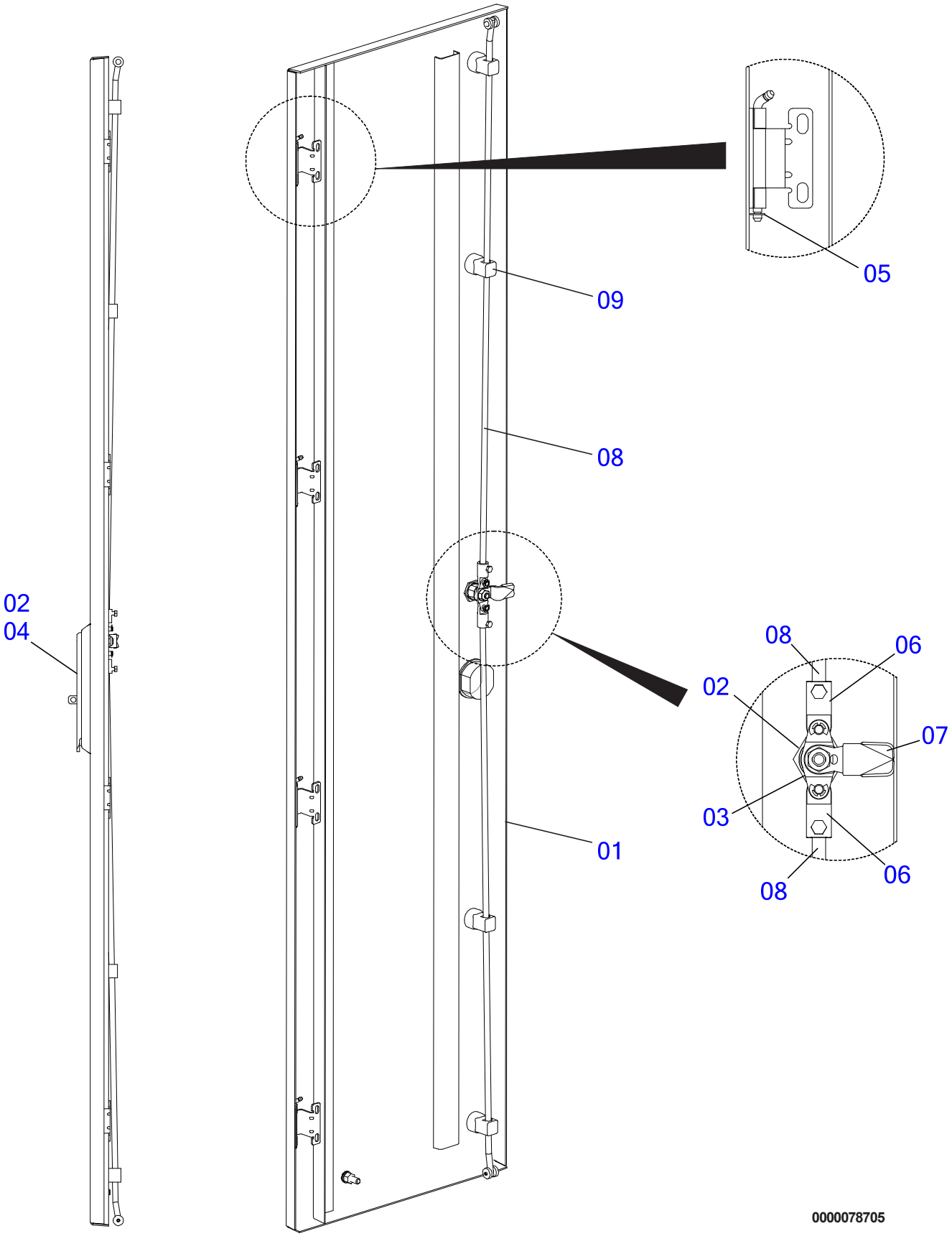
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CABINET, MAIN I/O

Item	Part No.	Description	Qty.	Page
	R108075F1	CABINET, MAIN I/O		
01	R108076D1	▪ CABINET, Main I/O, Weldment	1	
02	R110165F1	▪ DOOR, Control Cabinet	2	32
03	R110950F1	▪ DOOR ASSEMBLY, Control Cabinet, Right	1	33
04	R110167F1	▪ DOOR ASSEMBLY, Control Cabinet, Left	1	34
05	R108075Y5	▪ GASKET	2	
06	R108075Y6	▪ GASKET	4	
07	R108075Y7	▪ INSULATION	1	
08	R108075Y8	▪ INSULATION	2	
09	R108075Y9	▪ INSULATION	1	
10	R108075Y10	▪ INSULATION	1	
11	R108075Y11	▪ INSULATION	2	
12	R108075Y12	▪ INSULATION	1	
13	R108075Y13	▪ INSULATION	1	
14	R108075Y14	▪ INSULATION	1	
15	R108075Y15	▪ INSULATION	1	
16	R108075Y16	▪ INSULATION	1	
17	R108075Y17	▪ INSULATION	1	
18	R108075Y18	▪ INSULATION	1	
19	R108075Y19	▪ INSULATION	1	
20	R108075Y20	▪ INSULATION	1	
21	R108075Y21	▪ INSULATION	1	
22	R108075Y22	▪ INSULATION	1	
23	R108075Y23	▪ INSULATION	1	
24	R108075Y24	▪ INSULATION	1	
25	R108075Y25	▪ INSULATION	1	
26	R108646D1	▪ COVER, Cabinet, Main I/O	2	
27	R108647D1	▪ GASKET, Cover	2	
28	R90543D1	▪ COVER, Pass-Through, Power	1	
29	0825M06020	▪ BOLT, Hex Hd	12	
30	3612M006	▪ WASHER, Plain	12	
31	R82264D19	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	32	
32	2104M006	▪ NUT, Hex	34	
33	R118251D1	▪ GASKET, Upper, Pass Through Cover	1	
34	R118527D1	▪ GASKET, Lower, Pass Through Cover	1	

DOOR ASSEMBLY, CONTROL CABINET, LATCHING

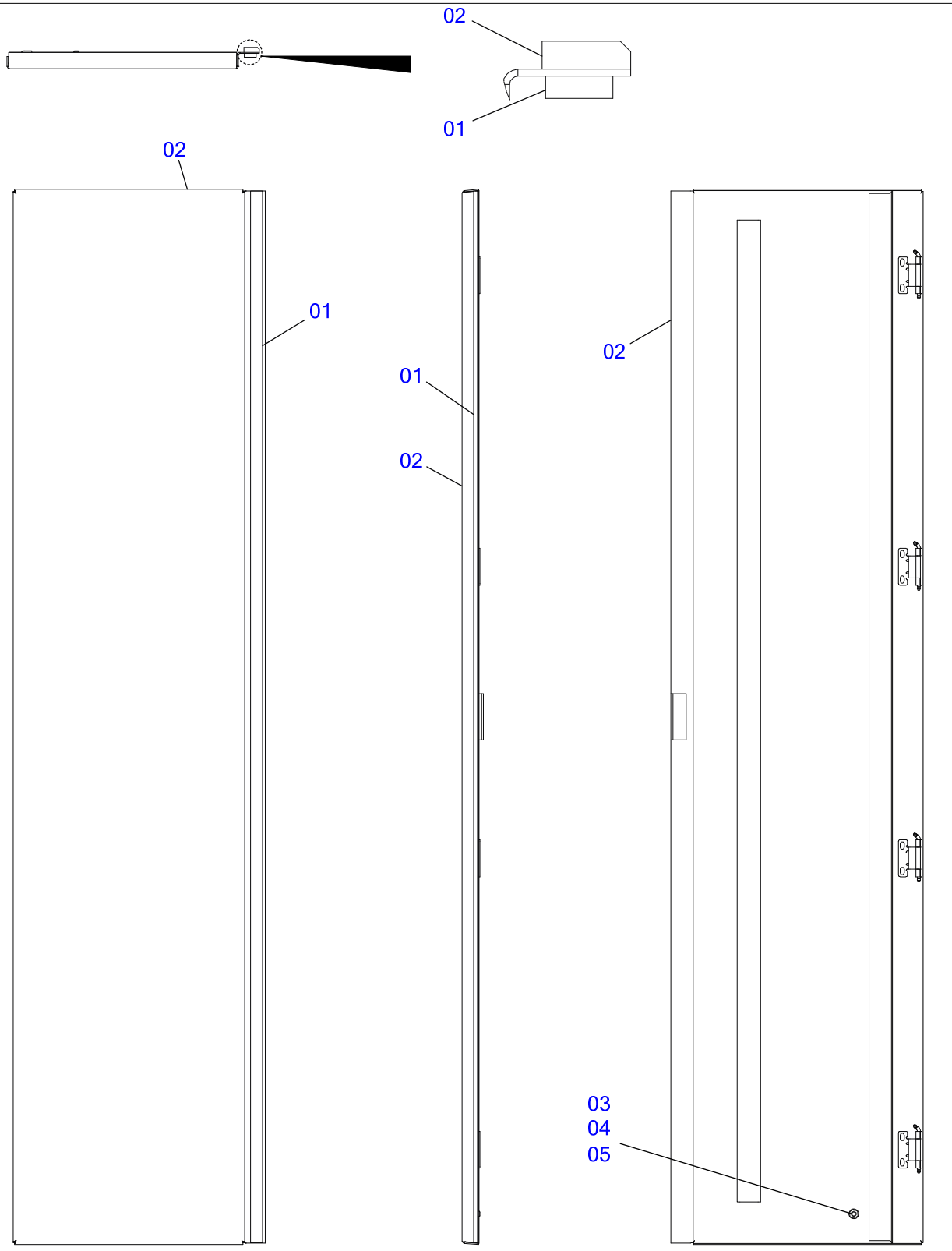


DOOR ASSEMBLY, CONTROL CABINET, LATCHING

DOOR ASSEMBLY, CONTROL CABINET, LATCHING

Item	Part No.	Description	Qty.
	R110165F1	DOOR ASSEMBLY, CONTROL CABINET, LATCHING	
01	R110166D1	▪ DOOR, Control Cabinet	1
02	R90521D1	▪ HANDLE, Swing	1
03	R90522D1	▪ CONTROL, Rod	1
04	R90523D1	▪ PLUG, Blind	1
05	R90524D1	▪ E-RING	4
06	R90525D1	▪ ADAPTER, Rod	2
07	R90526D1	▪ CAM	1
08	R110170D1	▪ ROD, Locking	2
09	R90602D1	▪ GUIDE, Rod	4

DOOR ASSEMBLY, CONTROL CABINET, RIGHT



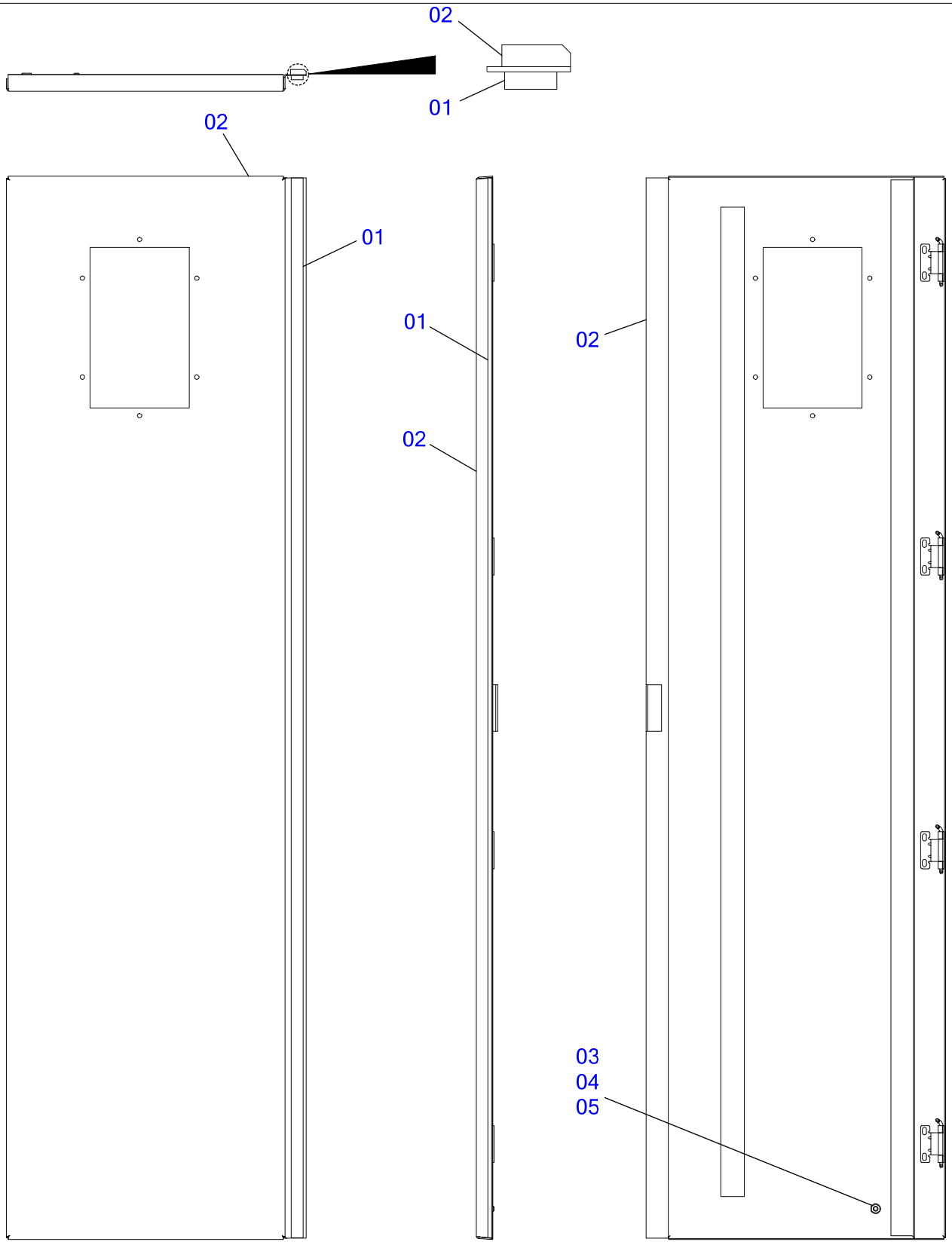
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DOOR ASSEMBLY, CONTROL CABINET, RIGHT

DOOR ASSEMBLY, CONTROL CABINET, RIGHT

Item	Part No.	Description	Qty.
	R110950F1	DOOR ASSEMBLY, CONTROL CABINET, RIGHT	
01	R110950Y1	▪ GASKET	1
02	R110949D1	▪ DOOR, Control Cabinet, Right	1
03	R106890D008	▪ WASHER, Lock, External Tooth	1
04	3612M008	▪ WASHER, Plain	2
05	2104M008	▪ NUT, Hex	1

DOOR ASSEMBLY, CONTROL CABINET, LEFT



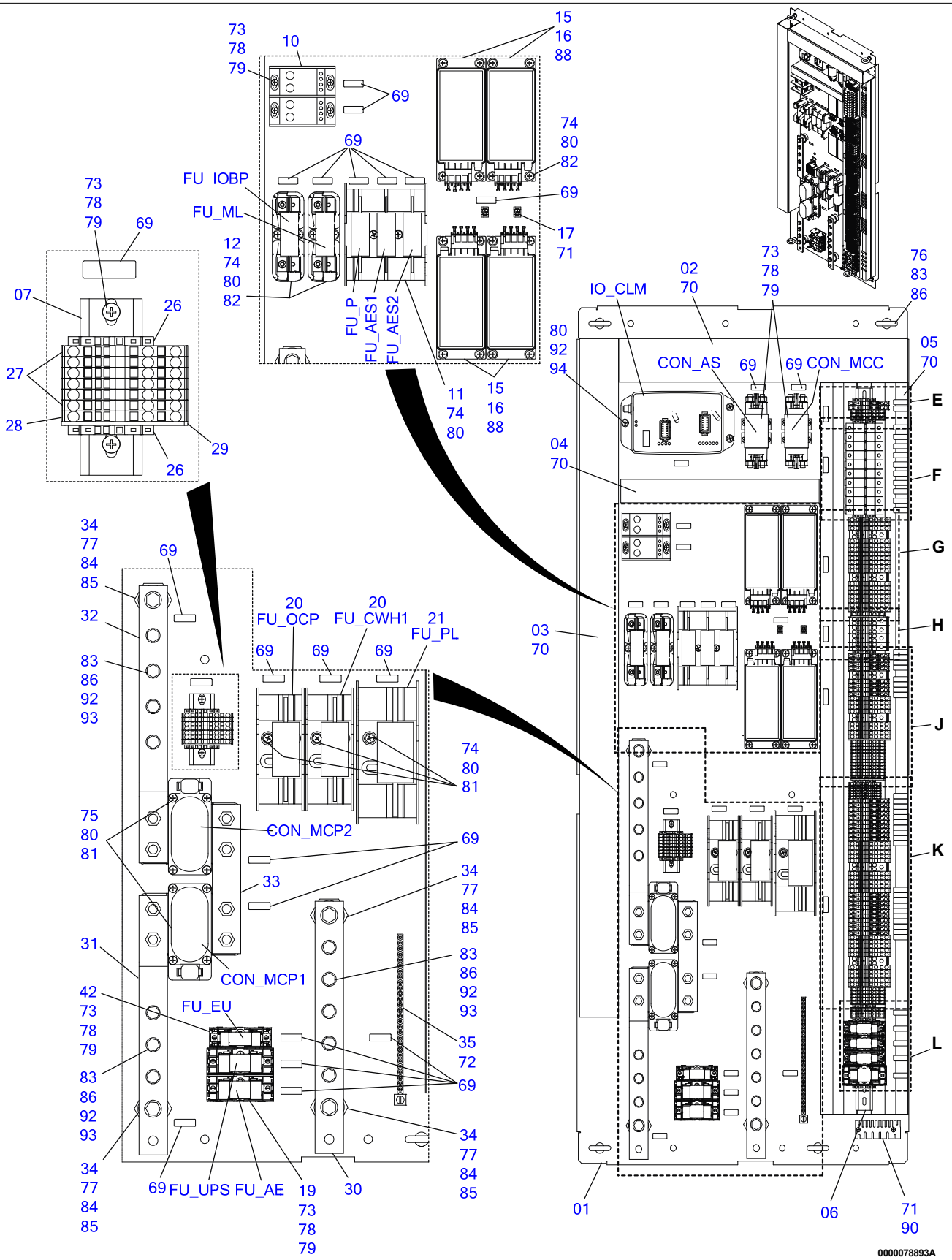
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DOOR ASSEMBLY, CONTROL CABINET, LEFT

DOOR ASSEMBLY, CONTROL CABINET, LEFT

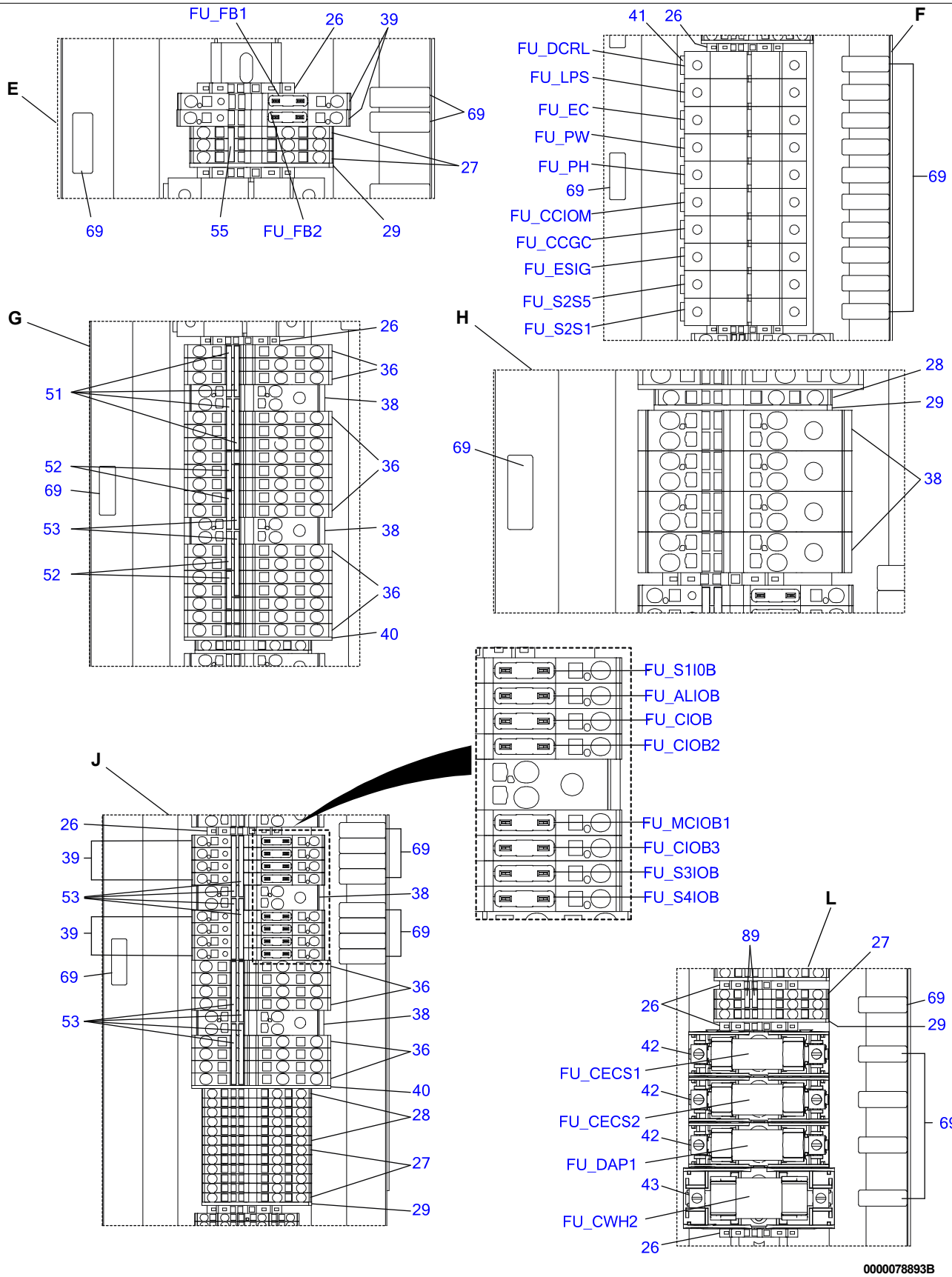
Item	Part No.	Description	Qty.
	R110167F1	DOOR ASSEMBLY, CONTROL CABINET, LEFT	
01	R110167Y1	▪ GASKET	1
02	R110168D1	▪ DOOR, Control Cabinet, Left	1
03	R106890D008	▪ WASHER, Lock, External Tooth	1
04	3612M008	▪ WASHER, Plain	2
05	2104M008	▪ NUT, Hex	1

ASSEMBLY, CONTROL PANEL 1



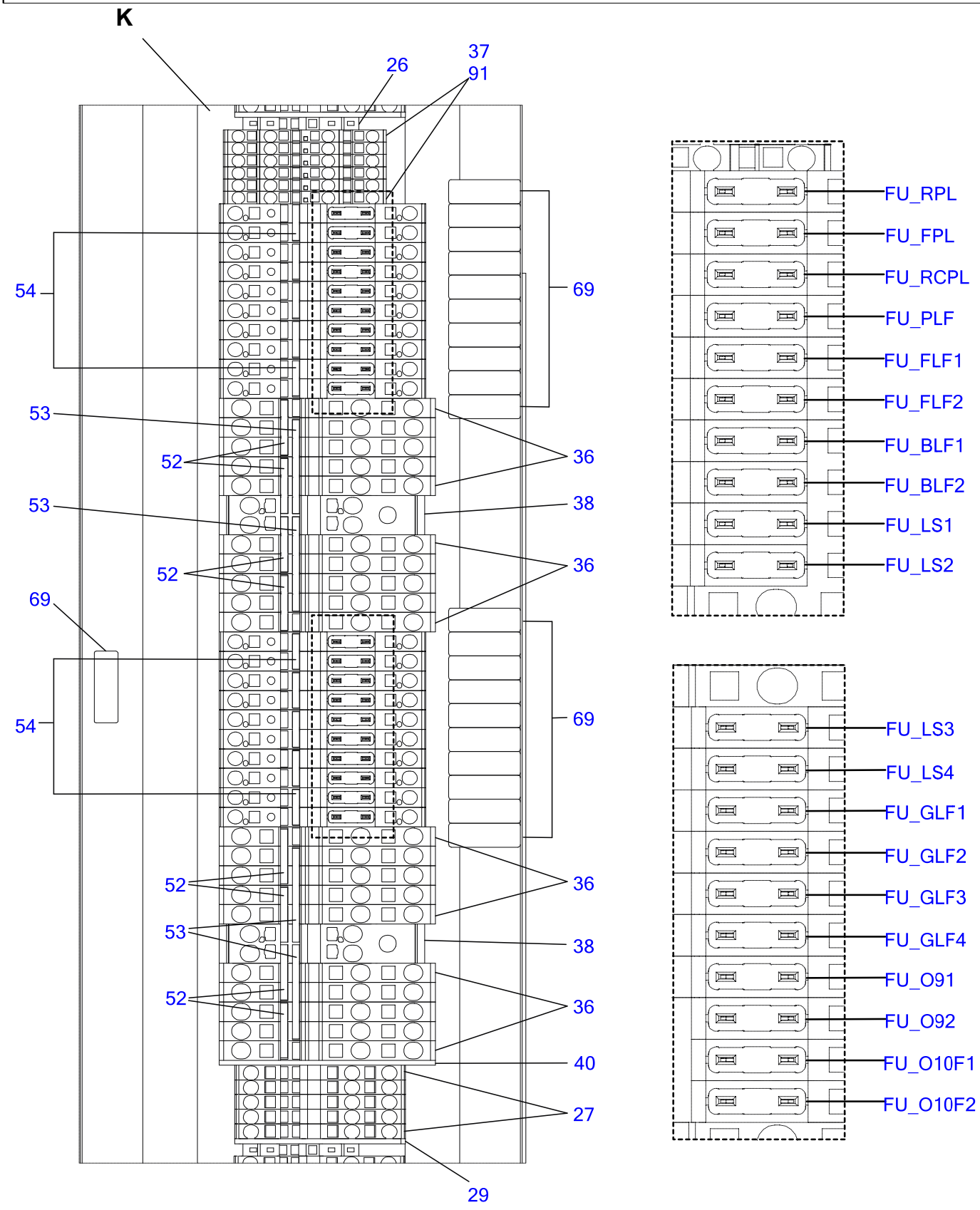
CONTROL, PANEL 1

ASSEMBLY, CONTROL PANEL 1



CONTROL, PANEL 1 - VIEWS E, F, G, H, J, L

ASSEMBLY, CONTROL PANEL 1



0000078893C

CONTROL, PANEL 1 - VIEW K

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ASSEMBLY, CONTROL PANEL 1

Item	Part No.	Description	Qty.	Page
	R108043F1	ASSEMBLY, CONTROL PANEL 1		
01	R108042D1	• CONTROL, Panel 1	1	
02	R110595D48	• DUCT	1	
03	R110595D105	• DUCT	1	
04	R110144D33	• DUCT	1	
05	R110623D110	• DUCT, Din Rail	1	
06	R105898D138	• DIN RAIL	1	
07	R105898D10	• DIN RAIL	1	
CON_AS	R82607D1	• STARTER RELAY, ASR Auxiliary	1	
CON_MCC	R82607D1	• STARTER RELAY, ASR Auxiliary	1	
IO_CLM	R98538D1	• POWER DISTRIBUTION MODULE, 100A	1	
10	R110652D1	• TERMINAL BLOCK	1	
11	R116687D7	• FUSE BLOCK, Ferrule,100A	1	
12	R23969D10	• FUSE BLOCK, 1 Pole	2	
FU_IOBP	79U2594D14	• FUSE, 70A	1	
FU_ML	79U2594D14	• FUSE, 70A	1	
FU_P	79U2594D17	• FUSE, 100A	1	
FU_AES1	79U2594D17	• FUSE, 100A	1	
FU_AES2	79U2594D17	• FUSE, 100A	1	
15	R103862D2	• CONVERTER, DC/DC, 300W	4	
16	R108389D1	• HEADER, MINIFIT SR, 4 Circuits	4	
17	20Z1497D7	• RETAINER, Tie Pad	2	
CON_MCP1	R82606D2	• MAIN CONTACTOR, Positive 2	1	
CON_MCP2	R82606D2	• MAIN CONTACTOR, Positive 2	1	
19	R23969D8	• FUSE BLOCK, 2 Pole	1	
20	R116687D4	• FUSE BLOCK, 200 A	2	
21	R116687D5	• FUSE BLOCK, 400 A	1	
FU_EU	79U2594D6	• FUSE, 20 AMP	1	
FU_CECS1	79U2594D6	• FUSE, 20 AMP	1	
FU_CECS2	79U2594D6	• FUSE, 20 AMP	1	
FU_DAP1	79U2594D6	• FUSE, 20 AMP	1	
FU_UPS	79U2594D13	• FUSE, 60 AMP	1	
FU_AE	79U2594D13	• FUSE, 60 AMP	1	
FU_CWH2	79U2594D13	• FUSE, 60 AMP	1	
FU_OCP	79U2594D20	• FUSE, 150 AMP	1	
FU_CWH1	79U2594D20	• FUSE, 150 AMP	1	
FU_PL	79U2594D23	• FUSE, 225 AMP	1	
26	R82712D1	• CLAMP, End	10	
27	R82620D1	• BLOCK, Terminal (Gray)	23	
28	R82620D7	• BLOCK, Terminal (Green/Yellow)	8	

ASSEMBLY, CONTROL PANEL 1

Item	Part No.	Description	Qty.	Page
29	R82705D1	• PLATE, Spacer	6	
30	R110774D1	• BUS BAR	1	
31	R110670D1	• BUS BAR	1	
32	R110710D1	• BUS BAR	1	
33	R90605D8	• BUS BAR	1	
34	R85627D2	• STANDOFF, Insulator	4	
35	R69367D2	• BAR, Equipment Grounding	1	
36	R88487D1	• BLOCK, Terminal	46	
37	R90745D1	• TERMINAL BLOCK, Double Level, Spring Cage	6	
38	R82621D1	• BLOCK, Terminal	10	
39	R80858D3	• BLOCK, Terminal, Fuse - w/ LED	30	
40	R88487D4	• END COVER, Terminal Block	3	
41	R90549D1	• FUSE HOLDER, 1-Pole	10	
42	R23969D4	• FUSE BLOCK, 1-Pole	4	
43	R23969D7	• FUSE BLOCK, 1-Pole	1	
FU_DCRL	R90548D19	• FUSE, 8A	1	
FU_ESIG	R90548D19	• FUSE, 8A	1	
FU_S2S5	R90548D19	• FUSE, 8A	1	
FU_EC	R90548D21	• FUSE, 10A	1	
FU_PH	R90548D21	• FUSE, 10A	1	
FU_PW	R90548D23	• FUSE, 15A	1	
FU_CCIOM	R90548D23	• FUSE, 15A	1	
FU_CCGC	R90548D23	• FUSE, 15A	1	
FU_S2S1	R90548D23	• FUSE, 15A	1	
FU_LPS	R90548D26	• FUSE, 30A	1	
FU_S1I0B	R82706D7	• FUSE, 10A	1	
FU_ALIOB	R82706D7	• FUSE, 10A	1	
FU_CIOB	R82706D7	• FUSE, 10A	1	
FU_CIOB2	R82706D7	• FUSE, 10A	1	
FU_MCIOB1	R82706D7	• FUSE, 10A	1	
FU_CIOB3	R82706D7	• FUSE, 10A	1	
FU_S3IOB	R82706D7	• FUSE, 10A	1	
FU_S4IOB	R82706D7	• FUSE, 10A	1	
FU_RPL	R82706D7	• FUSE, 10A	1	
FU_FPL	R82706D7	• FUSE, 10A	1	
FU_RCPL	R82706D7	• FUSE, 10A	1	
FU_PLF	R82706D7	• FUSE, 10A	1	
FU_FLF1	R82706D7	• FUSE, 10A	1	
FU_FLF2	R82706D7	• FUSE, 10A	1	
FU_BLF1	R82706D7	• FUSE, 10A	1	

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ASSEMBLY, CONTROL PANEL 1

Item	Part No.	Description	Qty.	Page
FU_BLF2	R82706D7	• FUSE, 10A	1	
FU_LS1	R82706D7	• FUSE, 10A	1	
FU_LS2	R82706D7	• FUSE, 10A	1	
FU_LS3	R82706D7	• FUSE, 10A	1	
FU_LS4	R82706D7	• FUSE, 10A	1	
FU_GLF1	R82706D7	• FUSE, 10A	1	
FU_GLF2	R82706D7	• FUSE, 10A	1	
FU_GLF3	R82706D7	• FUSE, 10A	1	
FU_GLF4	R82706D7	• FUSE, 10A	1	
FU_O91	R82706D7	• FUSE, 10A	1	
FU_O92	R82706D7	• FUSE, 10A	1	
FU_O10F1	R82706D7	• FUSE, 10A	1	
FU_O10F2	R82706D7	• FUSE, 10A	1	
FU_FB1	R82706D3	• FUSE, Blade, 3A, Purple	1	
FU_FB2	R82706D6	• FUSE, 7.5A	1	
51	R82385D3	• BRIDGE, Plug-In, 4 Position	4	
52	R82385D2	• BRIDGE, Plug-In, 3 Position	12	
53	R82385D4	• BRIDGE, Plug-In, 5 Position	14	
54	R82385D1	• BRIDGE, Plug-In, 2 Position	10	
55	R82378D2	• BRIDGE, Plug-In, 3 Position	1	
56	79U2522D40	• LUG, Terminal	24	
57	R90706D1	• MARKER, Terminal Block - No. 1-10	8	
58	R90706D2	• MARKER, Terminal Block - No. 11-20	6	
59	R90706D3	• MARKER, Terminal Block - No. 21-30	2	
60	R90706D4	• MARKER, Terminal Block - No. 31-40	2	
61	R90706D5	• MARKER, Terminal Block - No. 41-50	2	
62	R90705D1	• MARKER, Terminal Block - No. 101-110	2	
63	R90705D11	• MARKER, Terminal Block - No. 201-210	2	
64	R90621D2	• MARKER, Terminal Block - No. 11-20	2	
65	R90621D3	• MARKER, Terminal Block - No. 21-30	4	
66	R90621D1	• MARKER, Terminal Block - No. 1-10	6	
67	R90621D5	• MARKER, Terminal Block - No. 41-50	2	
68	R90621D6	• MARKER, Terminal Block - No. 51-60	2	
69	R108425D1	• DECALS, Control Panel 1	1	
70	20Z1684D1	• RIVET, Flat Hd	45	
71	0856M04010	• SCREW, Pan Head	4	
72	0830M04020	• SCREW, Socket Hd	2	
73	0856M05012	• SCREW, Socket Hd	17	
74	0856M06016	• SCREW, Socket Hd	28	
75	0856M06040	• SCREW, Socket Hd	8	

ASSEMBLY, CONTROL PANEL 1

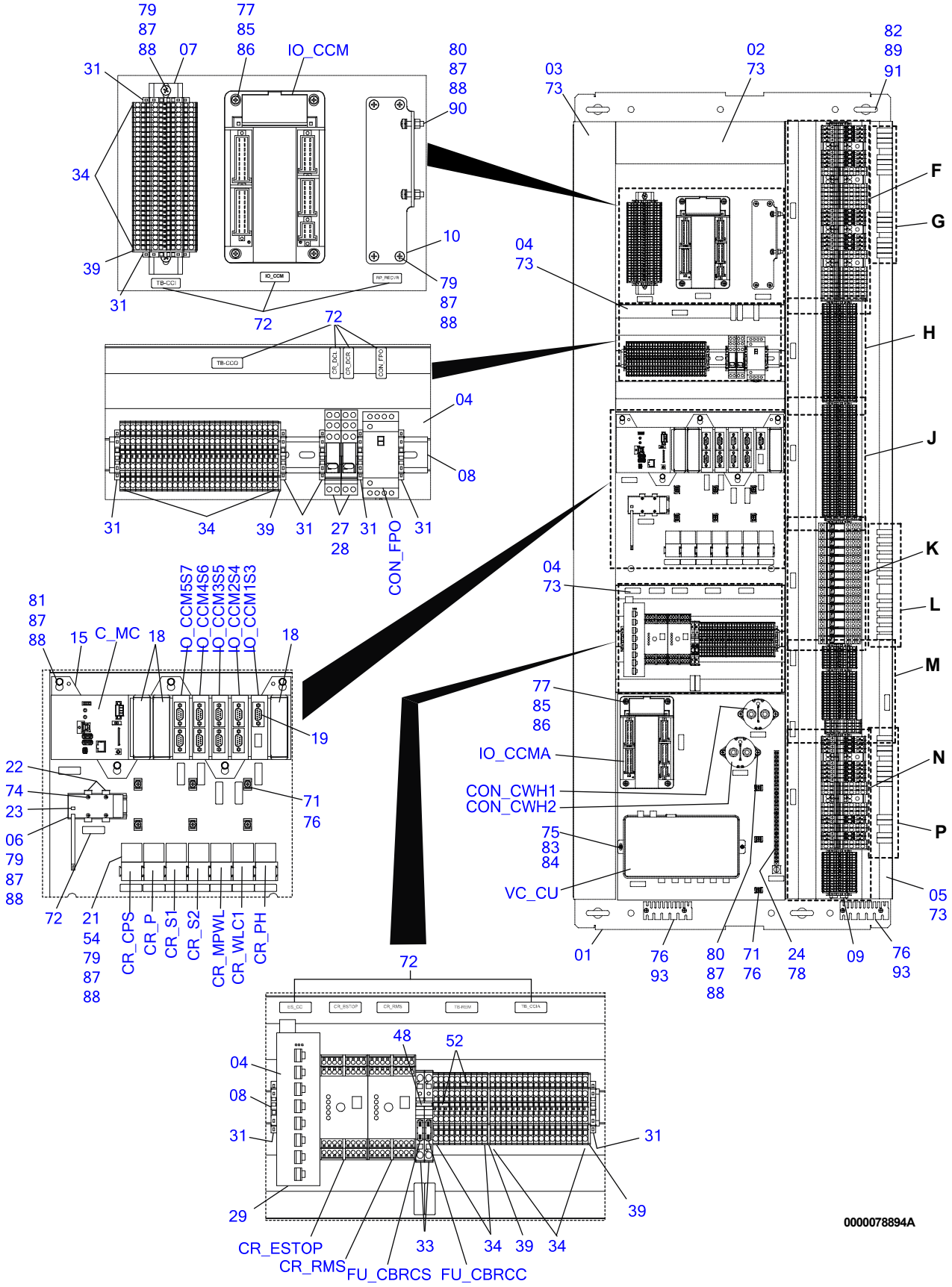
Item	Part No.	Description	Qty.	Page
76	R98953D1	• BOLT, Eye	4	
77	0825M12020	• BOLT, Hex Hd	8	
78	3612M005	• WASHER, Plain	17	
79	3615M005	• WASHER, Lock	17	
80	3612M006	• WASHER, Plain	39	
81	18Z3087D2	• WASHER, Conical Lock	14	
82	3615M006	• WASHER, Lock	31	
83	3612M010	• WASHER, Plain	31	
84	3612M012	• WASHER, Plain	8	
85	18Z3087D5	• WASHER, Conical Lock	8	
86	2104M010	• NUT, Hex	16	
87	R111038F39	• WIRE LIST, Control Panel 1 (Not Shown)	1	36
88	R108389D2	• CONNECTOR, Socket	16	
89	R82378D1	• BRIDGE, Plug-In, 2 Position	2	
90	R112841D2	• CABLE, Strain Relief Plate	1	
91	R112351D1	• MARKER, Terminal Block - No. 1-6	1	
92	0825M10025	• BOLT, Hex Hd	12	
93	18Z3087D4	• WASHER, Conical Lock	12	
94	0856M06020	• SCREW, Pan Head	3	
95	20Z40D21	• SCREW (Not Shown)	11	

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WIRE LIST, CONTROL PANEL 1 (Not Illustrated)

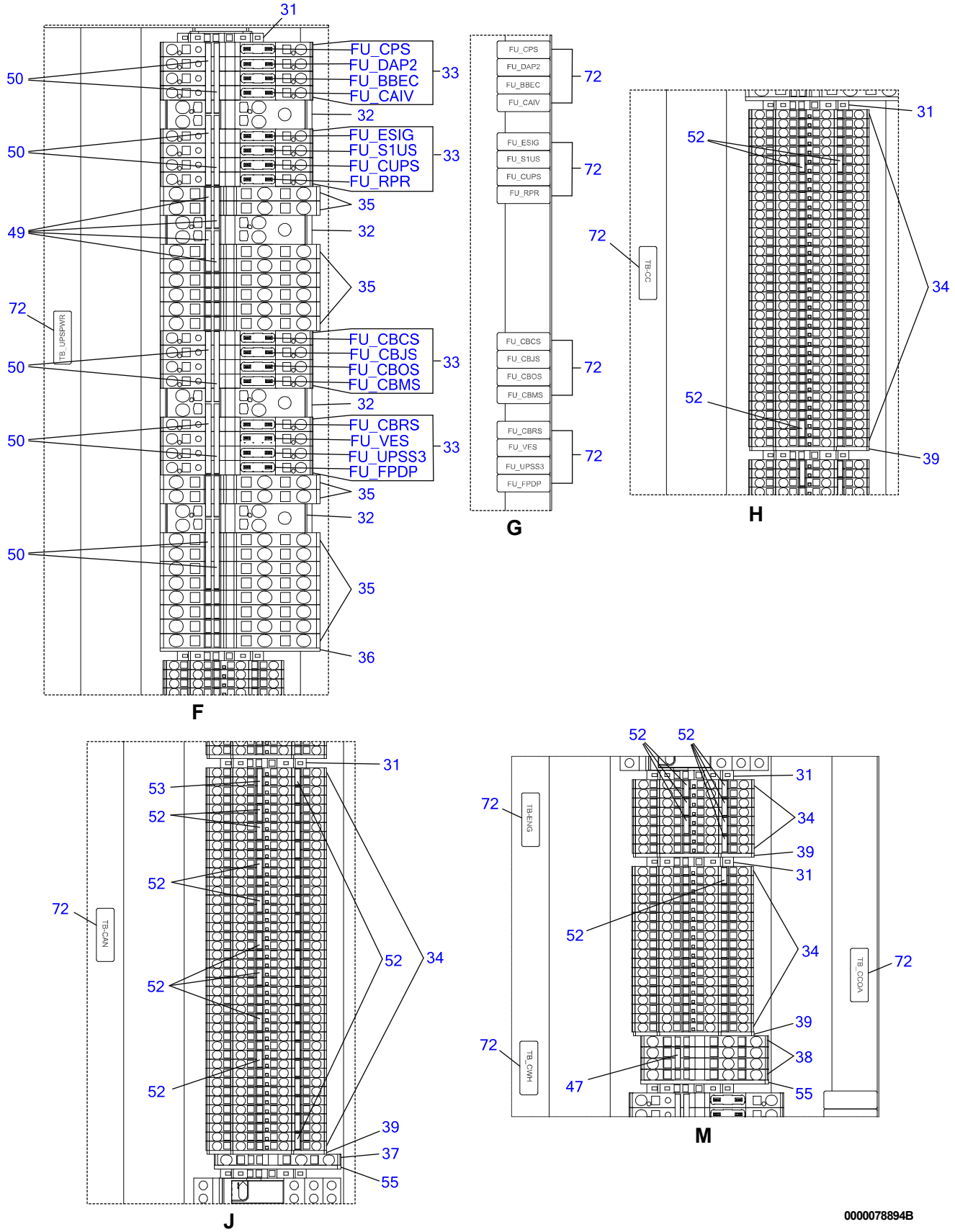
Item	Part No.	Description	Qty.	Unit
	R111038F39	WIRE LIST, CONTROL PANEL 1		
01		・CABLE, 12AWG, Green	1	
	208481360	・・CABLE, 12AWG, Green	12	Foot
02		・CABLE, 2AWG, Black	1	
	505581704	・・CABLE, 2AWG, Black	12	Foot
03		・BLE, 14AWG, Black	1	
	208481290	・・CABLE, 14AWG, Black	101	Foot
04		・CABLE, 6AWG, Black	1	
	208481537	・・CABLE, 6AWG, Black	48	Foot
05		・CABLE, 1/0AWG, Black	1	
	505581757	・・CABLE, 1/0AWG, Black	19	Foot
06		・CABLE, 12AWG, Black	1	
	208481356	・・CABLE, 12AWG, Black	101	Foot
07		・CABLE, 8AWG, Black	1	
	208481475	・・CABLE, 8AWG, Black	22	Foot
08	79U2522D13	・TERMINAL, Solderless	1	
09		NOT USED		
10	79U2522D30	・LUG, Terminal	5	
11	79U2522D44	・TERMINAL LUGS, Solderless	5	
12	R90748D1	・CONNECTOR, 12 Pin	1	
13	R90748D3	・CONNECTOR, 12 Pin	2	
14	R84897D8	・SOCKET, Plug Contact	24	
15	R90748D2	・CONNECTOR, 12 Pin	1	
16	79U2522D14	・LUG	2	
17	79U2522D29	・LUG, Terminal	2	

ASSEMBLY, CONTROL PANEL 2



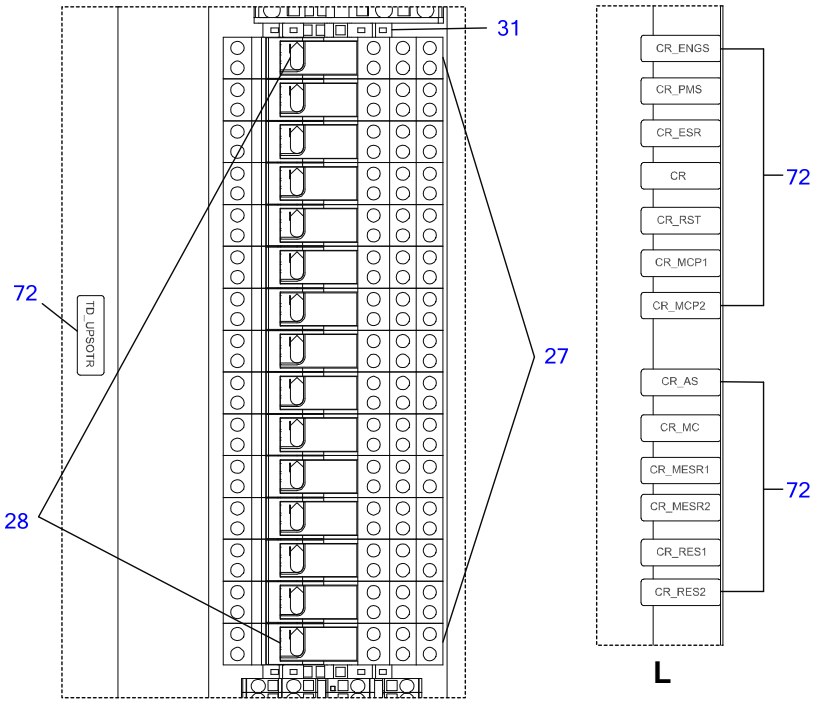
CONTROL, Panel 2

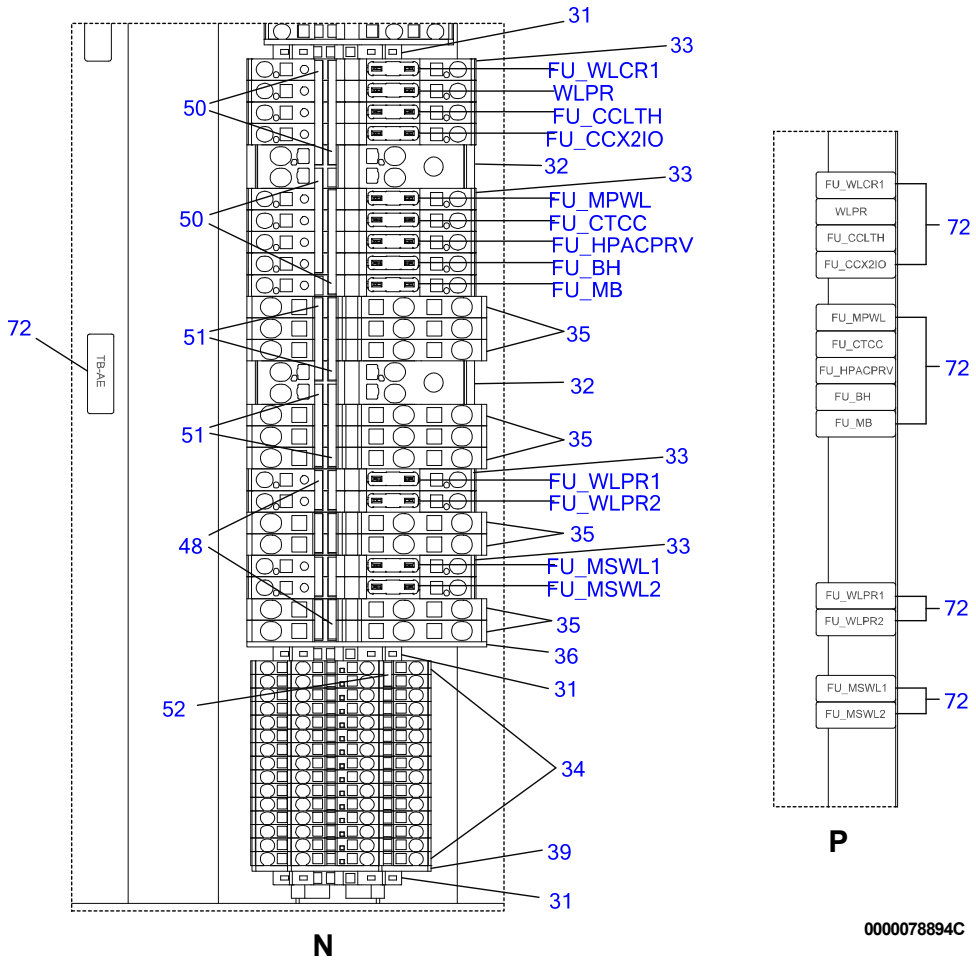
ASSEMBLY, CONTROL PANEL 2



CONTROL, Panel 2 Cont.

ASSEMBLY, CONTROL PANEL 2





CONTROL, Panel 2 Cont.

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ASSEMBLY, CONTROL PANEL 2

Item	Part No.	Description	Qty.	Page
	R108003F1	ASSEMBLY, CONTROL PANEL 2		
01	R108002D1	▪ PANEL, Electrical, Control 2	1	
02	R110595D26	▪ DUCT	1	
03	R110595D120	▪ DUCT	1	
04	R110596D26	▪ DUCT, Din Rail	2	
05	R110596D120	▪ DUCT, Din Rail	1	
06	R105898D8	▪ DIN RAIL	1	
07	R105898D20	▪ DIN RAIL	1	
08	R105898D31	▪ DIN RAIL	2	
09	R105898D152	▪ DIN RAIL	1	
10	R110594D1	▪ BRACKET, Receiver Mounting	1	
IO_CCM	R74818D1	▪ MODULE, I/O	1	
IO_CCMA	R74818D1	▪ MODULE, I/O	1	
12		NOT USED		
13		NOT USED		
CON_FPO	R110587D1	▪ CONTACTOR, 4 Pole	1	
15	R96424D1	▪ MOUNTING KIT, Panel (Includes Mounting Plate and Screws)	1	
C_MC	R91986D2	▪ CONTROLLER, Automation	1	
IO_CCM5S7	R4258752	▪ MODULE, VCU 2 Port CAN	1	
IO_CCM4S6	R4258752	▪ MODULE, VCU 2 Port CAN	1	
IO_CCM3S5	R4258752	▪ MODULE, VCU 2 Port CAN	1	
IO_CCM2S4	R4258752	▪ MODULE, VCU 2 Port CAN	1	
IO_CCM1S3	R4258752	▪ MODULE, VCU 2 Port CAN	1	
18	R4260947	▪ MODULE, Blank Filler	3	
19	R105526D1	▪ RESISTOR, 120 OHM	9	
CR_CPS	R4260950	▪ RELAY, 20A	1	
CR_P	R4260950	▪ RELAY, 20A	1	
CR_S1	R4260950	▪ RELAY, 20A	1	
CR_S2	R4260950	▪ RELAY, 20A	1	
CR_MPWL	R4260950	▪ RELAY, 20A	1	
CR_WLC1	R4260950	▪ RELAY, 20A	1	
CR_PH	R4260950	▪ RELAY, 20A	1	
21	R4260949	▪ BRACKET, Relay Mounting	7	
22	R4268363	▪ ID KEY	2	
23	R4286058	▪ ID KEY	1	
24	R69367D2	▪ BAR, Equipment Grounding	1	
VC_CU	R95938D1	▪ CONTROL UNIT	1	
CON_CWH1	R102510D1	▪ CONTACTOR, 200A	1	
CON_CWH2	R102510D1	▪ CONTACTOR, 200A	1	
27	R90623D2	▪ SOCKET, Relay	17	

ASSEMBLY, CONTROL PANEL 2

Item	Part No.	Description	Qty.	Page
28	R90623D1	· RELAY, 2 Pole	17	
29	R91996D1	· ETHERNET SWITCH, Control Cabinet	1	
CR_ESTOP	R82619D1	· RELAY, Safety	1	
CR_RMS	R82619D1	· RELAY, Safety	1	
31	R82712D1	· CLAMP, End	18	
32	R82621D1	· BLOCK, Terminal	6	
33	R80858D3	· BLOCK, Terminal, Fuse - w/ LED	31	
34	R90745D1	· TERMINAL BLOCK, Double Level, Spring Cage	208	
35	R88487D1	· BLOCK, Terminal	28	
36	R88487D4	· END COVER, Terminal Block	2	
37	R82620D7	· BLOCK, Terminal (Green/Yellow)	1	
38	R82620D1	· BLOCK, Terminal (Gray)	4	
39	R90745D2	· END COVER, Double Level	9	
FU_VES	R82706D3	· FUSE, 3A	1	
FU_WLCR1	R82706D5	· FUSE, 5A	1	
FU_CTCC	R82706D5	· FUSE, 5A	1	
FU_MB	R82706D5	· FUSE, 5A	1	
FU_ESIG	R82706D6	· FUSE, 7.5A	1	
FU_CBCS	R82706D6	· FUSE, 7.5A	1	
FU_CBJS	R82706D6	· FUSE, 7.5A	1	
FU_CBOS	R82706D6	· FUSE, 7.5A	1	
FU_CBMS	R82706D6	· FUSE, 7.5A	1	
FU_CBRS	R82706D6	· FUSE, 7.5A	1	
FU_FPDP	R82706D6	· FUSE, 7.5A	1	
FU_DAP2	R82706D7	· FUSE, 10A	1	
FU_CBRCC	R82706D7	· FUSE, 10A	1	
FU_CPS	R82706D7	· FUSE, 10A	1	
FU_HPACPRV	R82706D7	· FUSE, 10A	1	
FU_WLPR1	R82706D7	· FUSE, 10A	1	
FU_WLPR2	R82706D7	· FUSE, 10A	1	
FU_MSWL1	R82706D7	· FUSE, 10A	1	
FU_MSWL2	R82706D7	· FUSE, 10A	1	
FU_CBRCS	R82706D8	· FUSE, 15A	1	
FU_UPSS3	R82706D8	· FUSE, 15A	1	
FU_RPR	R82706D8	· FUSE, 15A	1	
FU_CUPS	R82706D8	· FUSE, 15A	1	
FU_CAIV	R82706D8	· FUSE, 15A	1	
FU_BBEC	R82706D8	· FUSE, 15A	1	
FU_CCLTH	R82706D8	· FUSE, 15A	1	
FU_CCX2IO	R82706D8	· FUSE, 15A	1	

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ASSEMBLY, CONTROL PANEL 2

Item	Part No.	Description	Qty.	Page
FU_BH	R82706D8	• FUSE, 15A	1	
WLPR	R82706D9	• FUSE, 20A	1	
FU_MPWL	R82706D9	• FUSE, 20A	1	
FU_S1US	R82706D11	• FUSE, 30A	1	
47	R82378D1	• BRIDGE, Plug-In, 2 Position	1	
48	R82385D1	• BRIDGE, Plug-In, 2 Position	9	
49	R82385D2	• BRIDGE, Plug-In, 3 Position	6	
50	R82385D4	• PLUG IN BRIDGE, 5 Position	14	
51	R82385D3	• BRIDGE, Plug-In, 4 Position	4	
52	R90732D1	• BRIDGE, Plug In, FBS 2-5	43	
53	R90732D2	• BRIDGE, Plug In, FBS 3-5	1	
54	R4260955	• CONNECTOR, w/ Tang	6	
55	R82705D1	• PLATE, Spacer	2	
56	R90705D1	• MARKER, Terminal Block, ZB 5, 101-110	18	
57	R90705D2	• MARKER, Terminal Block, ZB 5, 111-120	18	
58	R90705D3	• MARKER, Terminal Block, ZB 5,1 21-130	10	
59	R90705D4	• MARKER, Terminal Block, ZB 5, 131-140	4	
60	R90705D5	• MARKER, Terminal Block, ZB 5, 141-150	2	
61	R90705D11	• MARKER, Terminal Block, ZB 5, 201-210	18	
62	R90705D12	• MARKER, Terminal Block, ZB 5, 211-220	18	
63	R90705D13	• MARKER, Terminal Block, ZB 5, 221-230	10	
64	R90705D14	• MARKER, Terminal Block, ZB 5, 231-240	4	
65	R90705D15	• MARKER, Terminal Block, ZB 5, 241-250	2	
66	R90706D1	• MARKER, Terminal Block, ZB 8,1-10	4	
67	R90706D2	• MARKER, Terminal Block, ZB 8, 11-20	4	
68	R90706D3	• MARKER, Terminal Block, ZB 8, 21-30	4	
69	R90706D4	• MARKER, Terminal Block, ZB 8, 31-40	2	
70	R90621D1	• MARKER, Terminal Block, ZB 6, 1-10	4	
71	20Z1497D7	• RETAINER, Tie Pad	9	
72	R108430D1	• DECALS	1	
73	20Z1684D1	• RIVET, Flat Hd	54	
74	R4259297	• ID KEY	4	
75	0856M03010	• SCREW, Pan Head	2	
76	0856M04010	• SCREW, Pan Head	13	
77	0856M04025	• SCREW, Pan Head	8	
78	0830M04020	• SCREW, Socket Hd	2	
79	0856M05012	• SCREW, Pan Head	15	
80	0856M05020	• SCREW, Pan Head	8	
81	0627M05016	• SCREW, Hex Head Cap	5	
82	R98953D1	• BOLT, Eye	4	

ASSEMBLY, CONTROL PANEL 2

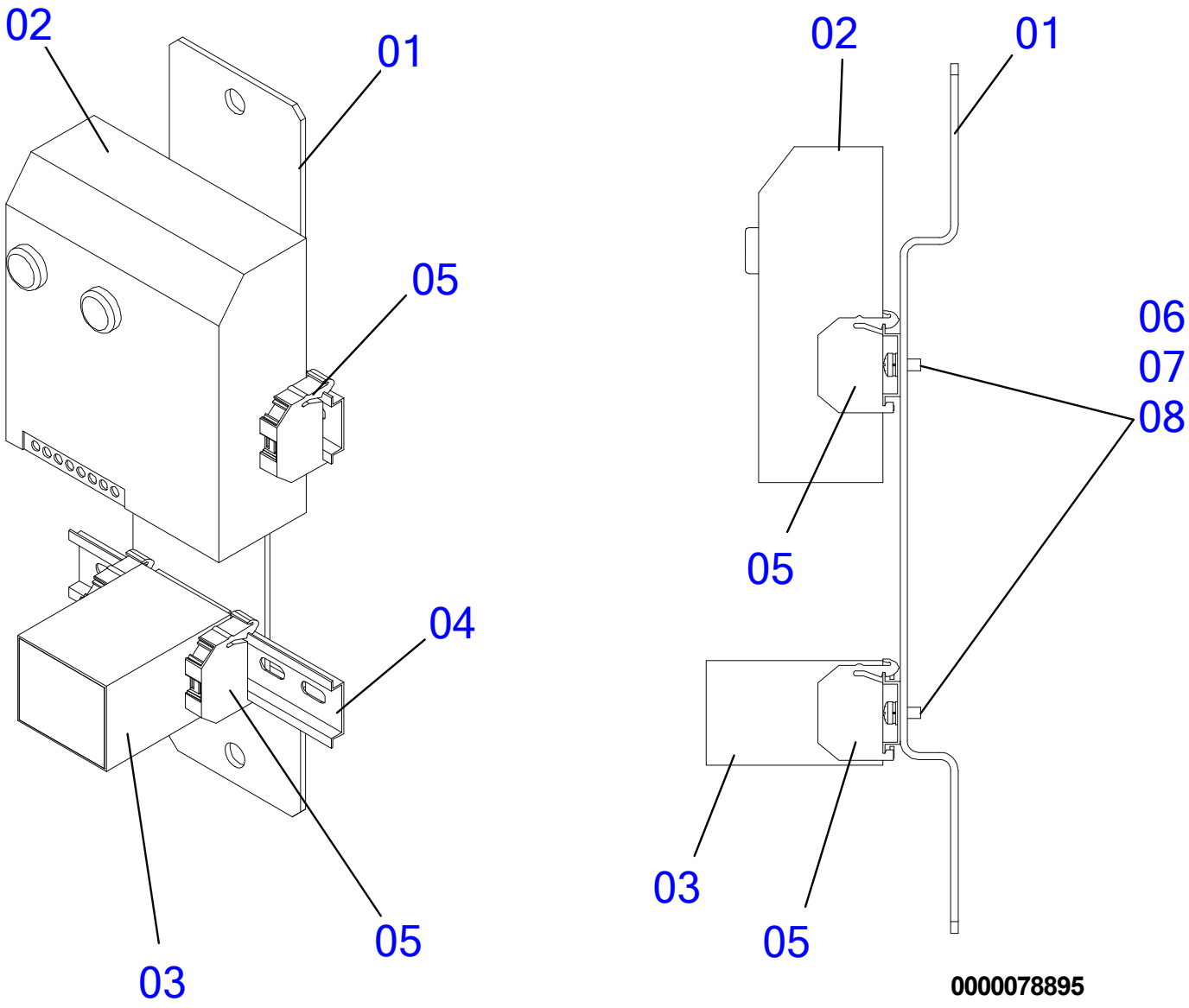
Item	Part No.	Description	Qty.	Page
83	3612M003	· WASHER, Plain	2	
84	3615M003	· WASHER, Lock	2	
85	3612M004	· WASHER, Plain	8	
86	3615M004	· WASHER, Lock	8	
87	3612M005	· WASHER, Plain	32	
88	3615M005	· WASHER, Lock	28	
89	3612M010	· WASHER, Plain	4	
90	2104M005	· NUT, Hex	4	
91	2104M010	· NUT, Hex	4	
92	R111038F40	· WIRE LIST, Control Panel 2 (Not Shown)	1	38
93	R112841D2	· CABLE, Strain Relief Plate	2	
94	20Z40D21	· SCREW (Not Shown)	16	

KOMATSU

WIRE LIST, CONTROL PANEL 2 (Not Illustrated)

Item	Part No.	Description	Qty.	Unit
	R111038F40	WIRE LIST, CONTROL PANEL 2		
01		▪ CABLE, Drop	1	
	5052B0001	▪ ▪ CABLE, Drop	8	Foot
02		▪ CABLE, 12AWG, Black	1	
	208481356	▪ ▪ CABLE, 12AWG, Black	22	Foot
03		▪ CABLE, 14AWG, Black	1	
	208481290	▪ ▪ CABLE, 14AWG, Black	346	Foot
04		▪ CABLE, 14AWG, Green	1	
	208481294	▪ ▪ CABLE, 14AWG, Green	9	Foot
05	R111038F40Y5	▪ CABLE, 16AWG, Black	1	
	208481190	▪ ▪ CABLE, 16AWG, Black	117	Foot
06		▪ CABLE, 6AWG, Black	1	
	208481537	▪ ▪ CABLE, 6AWG, Black	9	Foot
07		▪ CABLE, 20AWG, Black	1	
	0269810940	▪ ▪ CABLE, 20AWG, Black	4	Foot
08		▪ SHRINK TUBING, Black	1	
	185360187	▪ ▪ SHRINK TUBING, Black	?	Foot
09	R44437D1	▪ CABLE, Patch	1	
10	R76293D1	▪ CABLE W/ CONNECTOR, 6 Pole	2	
11	R76294D1	▪ CABLE W/ CONNECTOR, 14 Pole	4	
12	R76295D1	▪ CABLE W/ CONNECTOR, 18 Pole	4	
13	R90661T16D150	▪ CABLE, 9 Pin	9	
14	R110129D1	▪ CABLE, Serial	1	
15	R95938D4	▪ ADAPTER	1	
16		NOT USED		
17	R88249D1	▪ TIE, Wire	10	

THERMOSTAT ASSEMBLY



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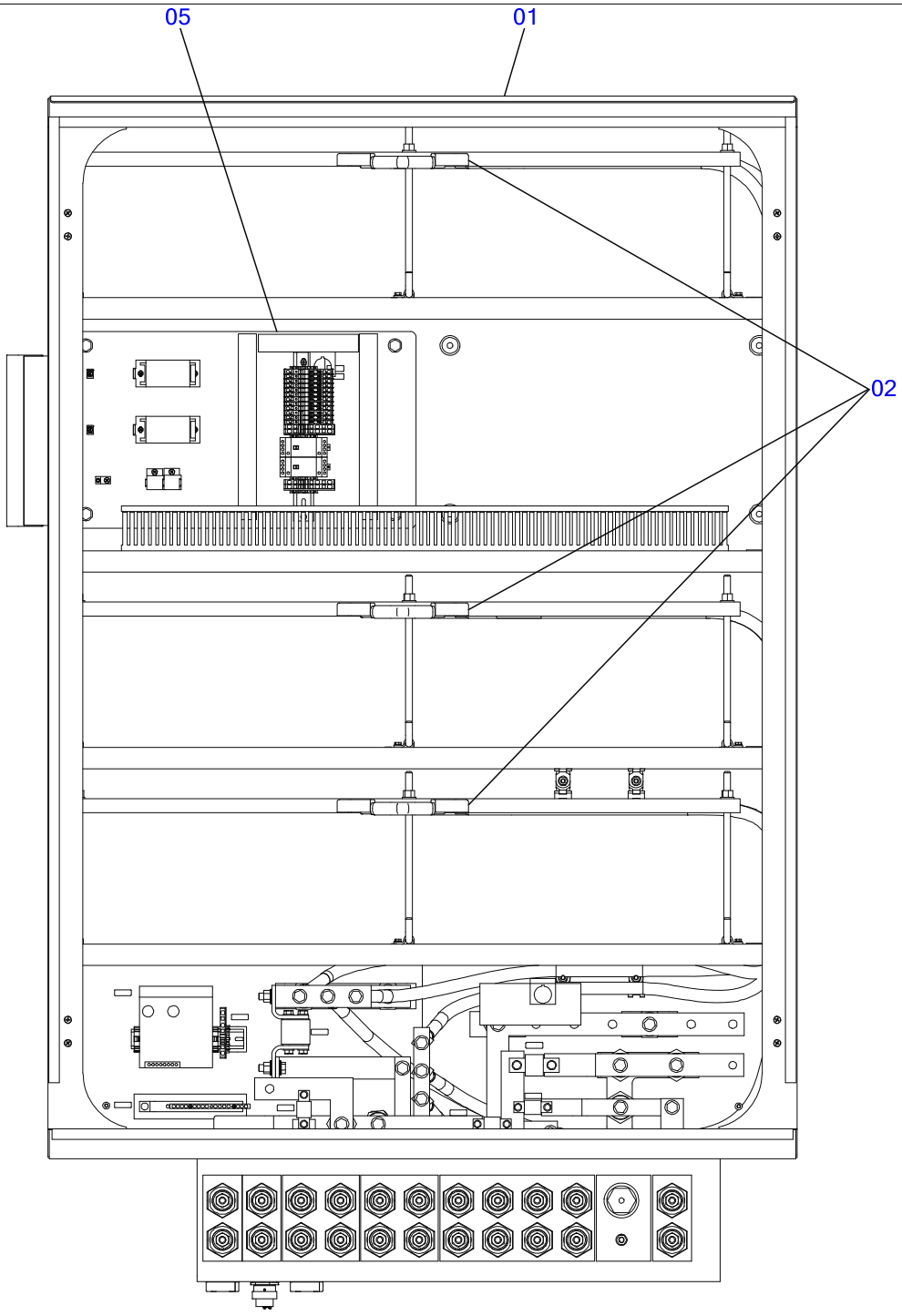
THERMOSTAT ASSEMBLY

Item	Part No.	Description	Qty.
	R110822F1	THERMOSTAT ASSEMBLY	
01	R110823D1	▪ BRACKET, Thermostat Mounting	1
02	R110661D1	▪ THERMOSTAT, Bimetallic	1
03	R110947D1	▪ DRAWER, Storage, Rail Mount	1
04	R105898D16	▪ RAIL, Mounting	2
05	R40118D12	▪ STOP, End	4
06	0856M05012	▪ SCREW, Pan Head	4
07	3612M005	▪ WASHER, Plain	4
08	3615M005	▪ WASHER, Lock	4

WIRE LIST, CONTROL CABINET (Not Illustrated)

Item	Part No.	Description	Qty.	Unit
	R111038F38	WIRE LIST, CONTROL CABINET (Not Illustrated)		
CBL10CA-261		・CABLE, 14AWG, Black	1	
	208481290	・・CABLE, 14AWG, Black	872	Foot
		・CABLE, 16AWG, Black	1	
	208481190	・・CABLE, 16AWG, Black	135	Foot
WID02		・CABLE, 6AWG, Black	1	
	208481537	・・CABLE, 6AWG, Black	22	Foot
WID10		・CABLE, 1/0 AWG, Black	1	
	505581757	・・CABLE, 1/0 AWG, Black	22	Foot
WID67		・CABLE, 6AWG, Green	1	
	208481538	・・CABLE, 6AWG, Green	15	Foot
WID68		・CABLE, 262 MCM, Black X 4M	1	
	505581765	・・CABLE, 262 MCM, Black X 4M	15	Foot
WID09		・CABLE, 2AWG, Black	1	
	505581704	・・CABLE, 2AWG, Black	28	Foot
CBL15AEA-041	R90651T16D300	・CABLE M12 F X FL 5 PIN	1	
CBL22AA-132	R95939D1	・CABLE, 2.5 Meter	2	
CBL19A-011	R90664D1	・CABLE TNC MALE TNC MALE	1	
CBL19A-031	R90664D2	・CABLE TNC MALE TNC MALE	1	
13	R95883D5	・CABLE	1	
14	79U2522D40	・LUG, Terminal	4	
15	79U2522D48	・LUG, Terminal	2	
16	79U2522D30	・LUG, Terminal	3	
17	79U2522D65	・LUG, Terminal	1	
18	79U2522D39	・LUG, Terminal	3	
19	79U2522D29	・LUG, Terminal	1	
WID78	R111038F38Y20	・CABLE, #8 AWG, BLACK X 6M	1	
WID61	R111038F38Y21	・CABLE, #12 AWG, GREEN X 3M	1	
22	79U2522D66	・LUG, Terminal	1	

ASSEMBLY, BATTERY CABINET



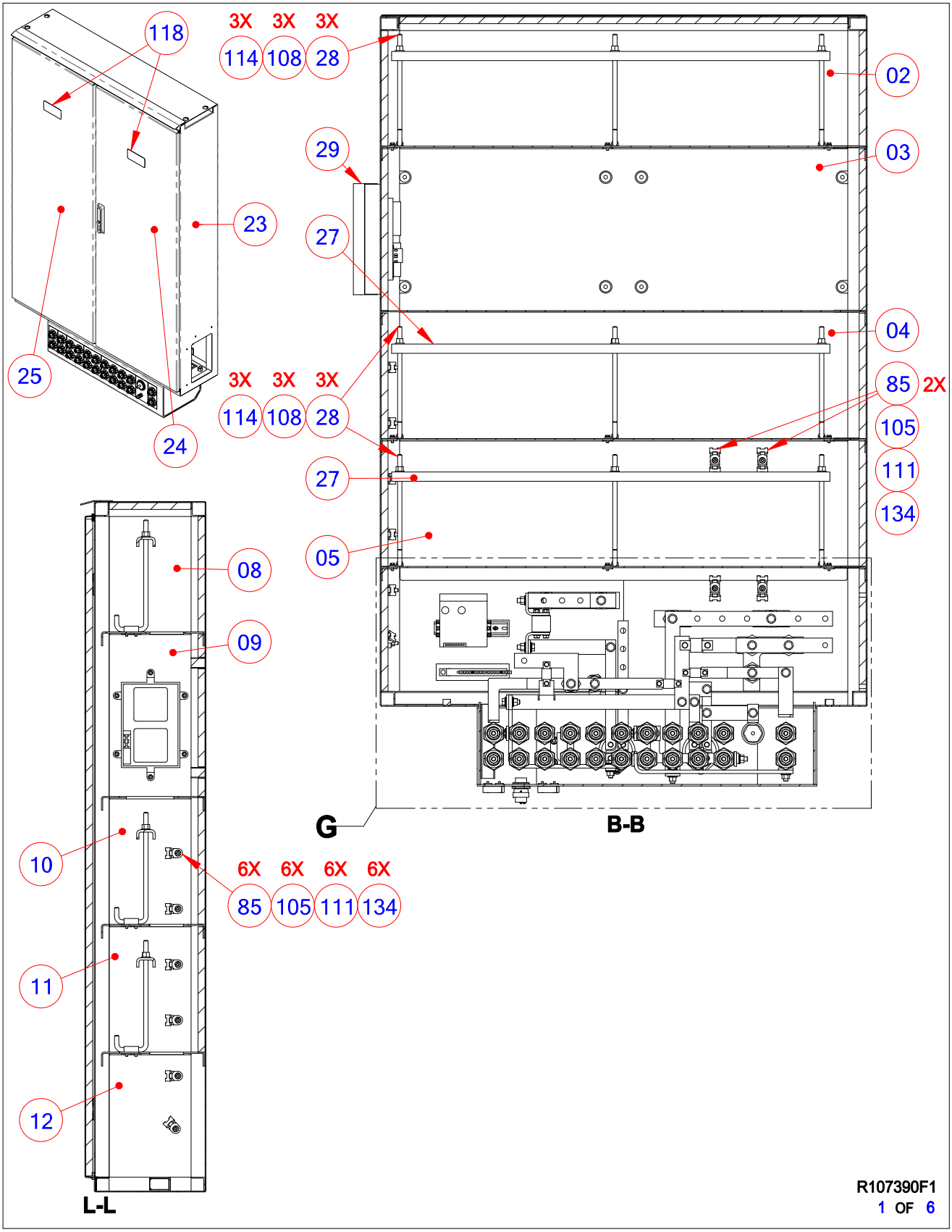
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ASSEMBLY, BATTERY CABINET

ASSEMBLY, BATTERY CABINET

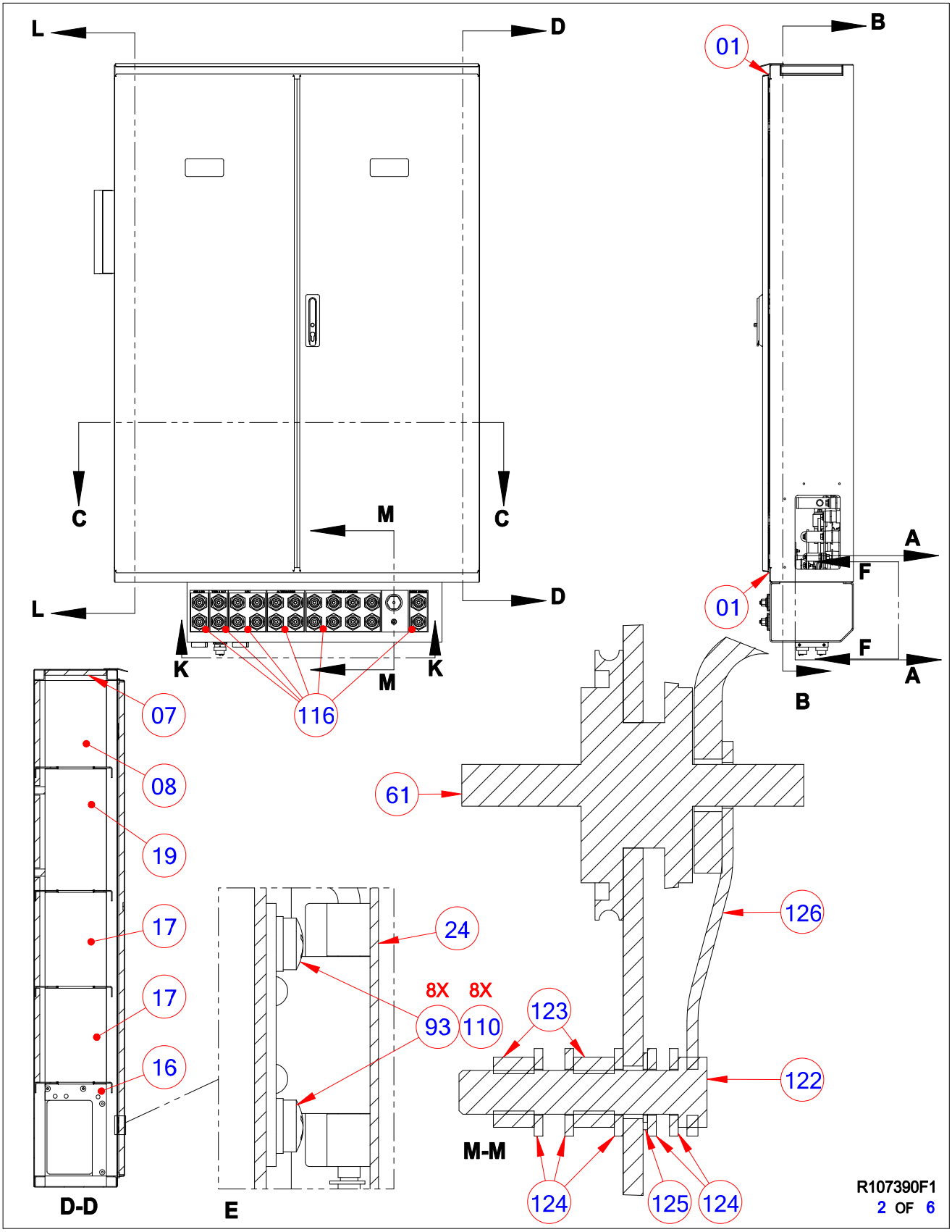
Item	Part No.	Description	Qty.	Page
	R112937F2	ASSEMBLY, BATTERY CABINET		
01	R107390F1	▪ ASSEMBLY, Battery Cabinet	1	42
02	R111038F20	▪ WIRE LIST, Battery Cables	1	48
03		NOT USED		
04	R112938D1	▪ DECALS, Battery Box (Not Shown)	1	53
05	R111367F1	▪ INSTALLATION, Electrical QST30 T4	1	54

ASSEMBLY, BATTERY CABINET



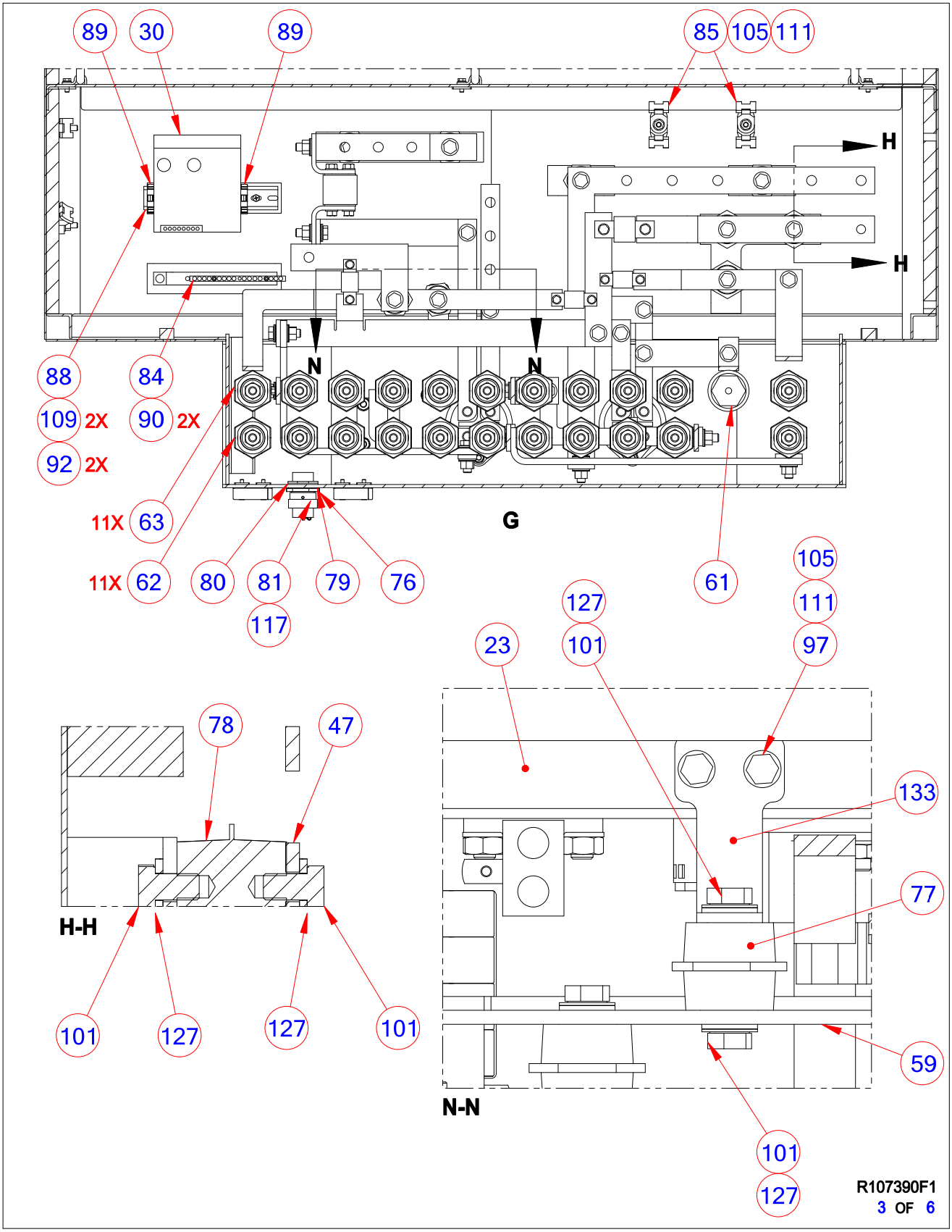
ASSEMBLY, BATTERY CABINET

ASSEMBLY, BATTERY CABINET



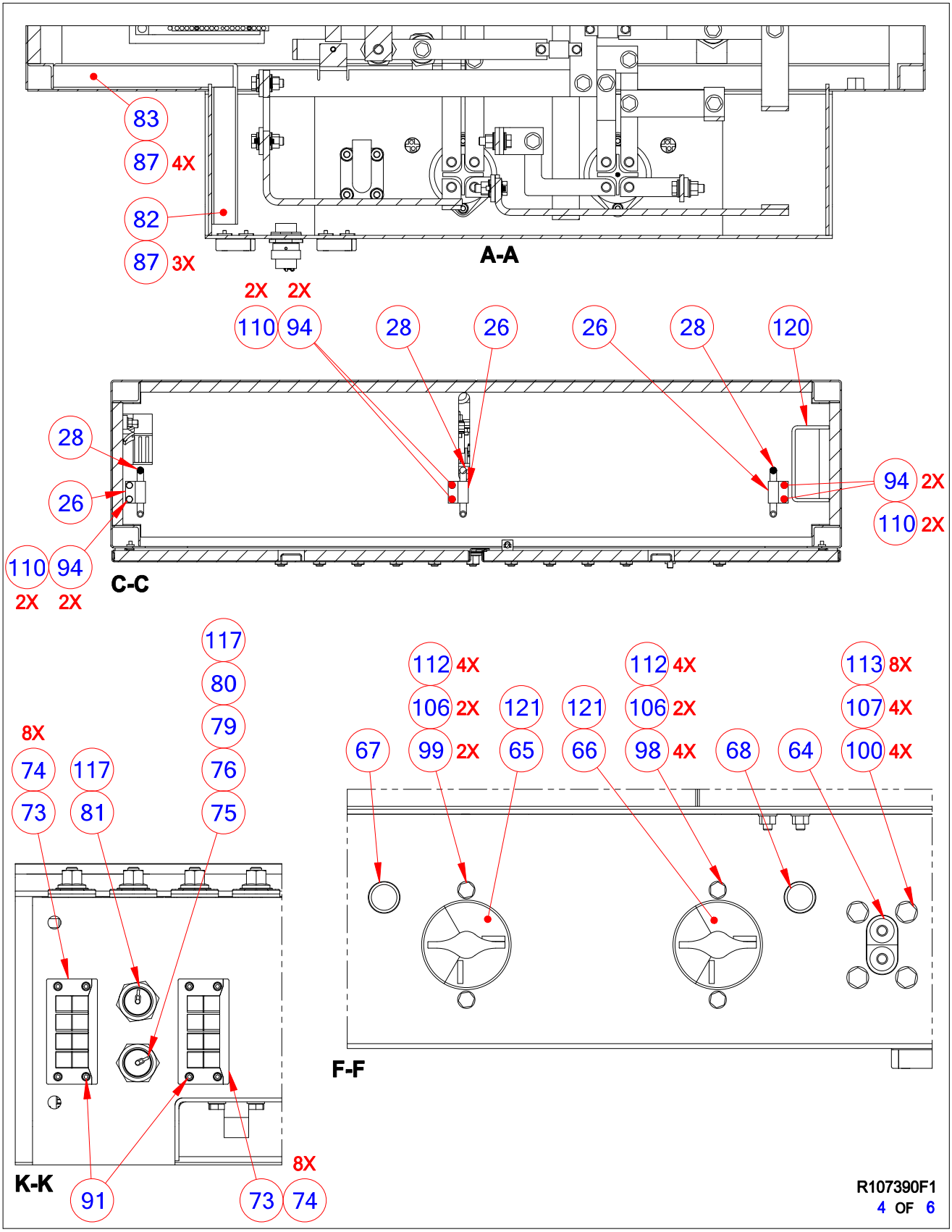
ASSEMBLY, BATTERY CABINET

ASSEMBLY, BATTERY CABINET



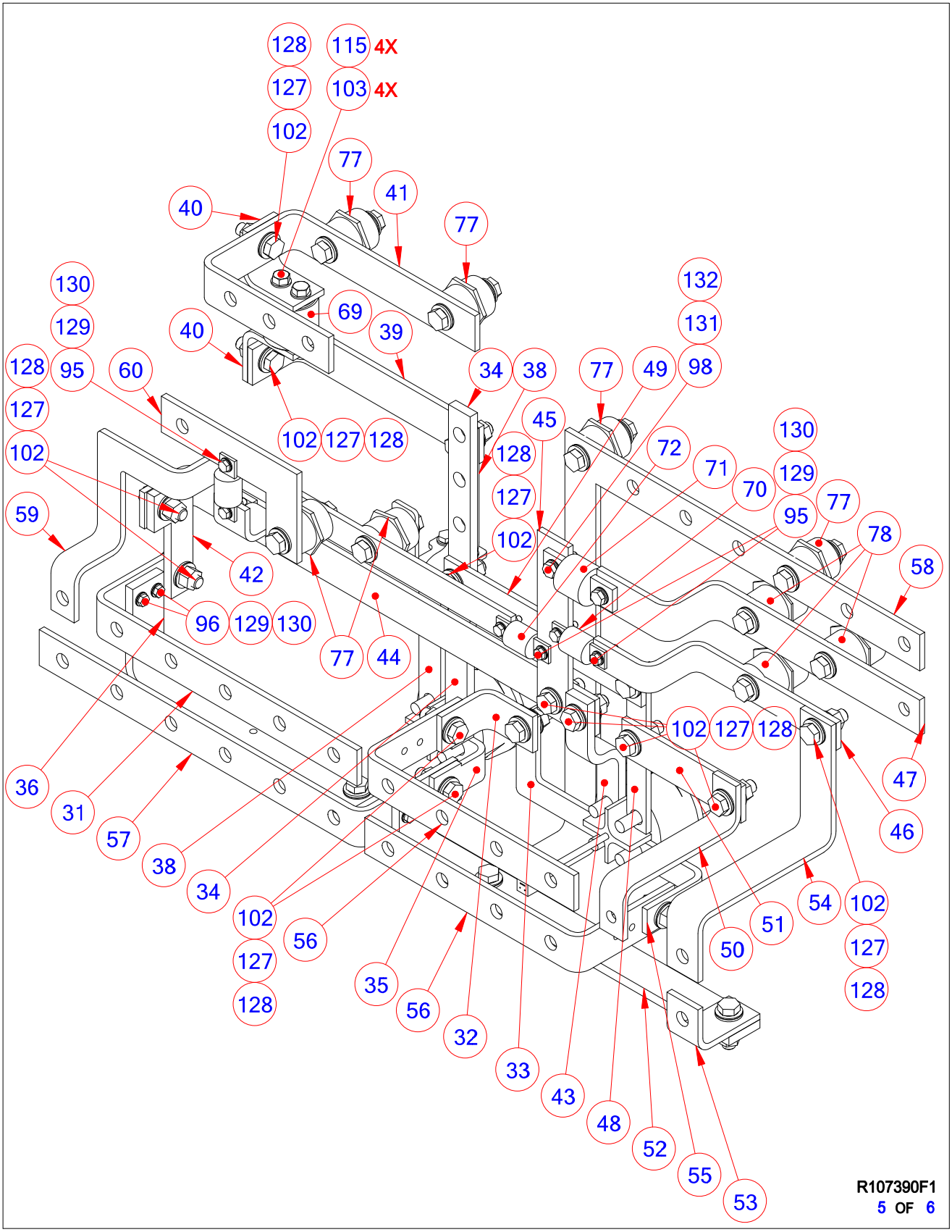
ASSEMBLY, BATTERY CABINET

ASSEMBLY, BATTERY CABINET



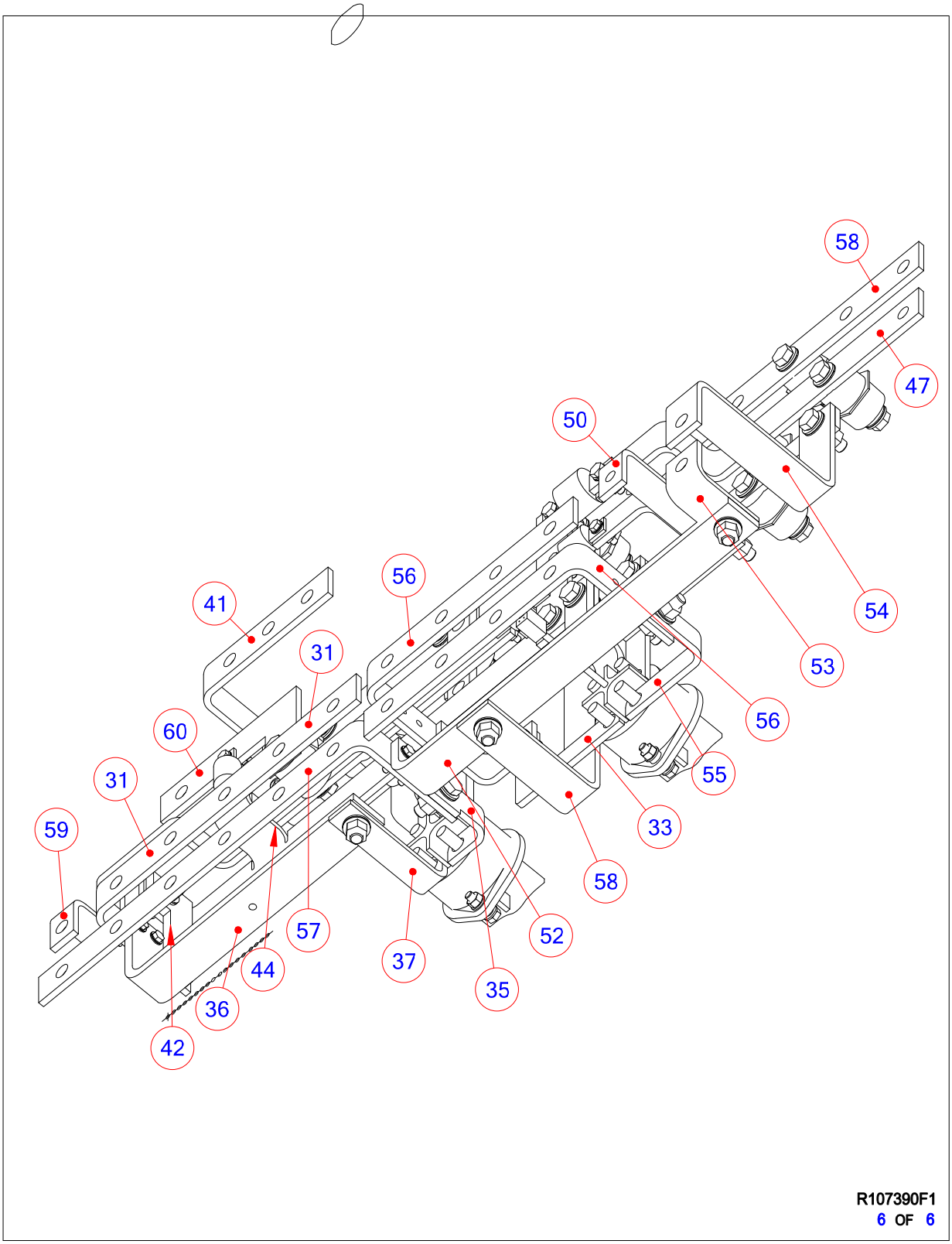
ASSEMBLY, BATTERY CABINET

ASSEMBLY, BATTERY CABINET



ASSEMBLY, BATTERY CABINET

ASSEMBLY, BATTERY CABINET



ASSEMBLY, BATTERY CABINET

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ASSEMBLY, BATTERY CABINET

Item	Part No.	Description	Qty.	Unit	Page
	R107390F1	ASSEMBLY, BATTERY CABINET			
01	R107390Y1	· FOAM	2		
02	R107390Y2	· INSULATION	1		
03	R107390Y3	· INSULATION	1		
04	R107390Y4	· INSULATION	1		
05	R107390Y5	· INSULATION	1		
06		NOT USED			
07	R107390Y7	· INSULATION	1		
08	R107390Y8	· INSULATION	2		
09	R107390Y9	· INSULATION	1		
10	R107390Y10	· INSULATION	1		
11	R107390Y11	· INSULATION	1		
12	R107390Y12	· INSULATION	1		
13		NOT USED			
14		NOT USED			
15		NOT USED			
16	R107390Y16	· INSULATION	1		
17	R107390Y17	· INSULATION	2		
18		NOT USED			
19	R107390Y19	· INSULATION	1		
20		NOT USED			
21		NOT USED			
22		NOT USED			
23	R107363D1	· CABINET, Battery Box (Modified by kit R9005578F1)	1		43
24	R107398F1	· DOOR ASSEMBLY, RH - Battery Box	1		44
25	R107399F1	· DOOR ASSEMBLY, LH - Battery Box	1		45
26	R90603D1	· CLAMPING BRACKET	9		
27	R107392D1	· CHANNEL, Hold Down	3		
28	R112928D1	· ROD	9		
29	R109022D2	· HEATER/COOLER, Thermoelectric	1		
30	R110661D1	· THERMOSTAT, Bimetallic	1		
31	R107694D1	· BUS BAR	1		
32	R107694D2	· BUS BAR	1		
33	R107694D3	· BUS BAR	1		
34	R115117D2	· BUS BAR	1		
35	R107694D5	· BUS BAR	1		
36	R107694D6	· BUS BAR	1		
37	R107694D7	· BUS BAR	1		
38	R115117D3	· BUS BAR	1		
39	R107694D9	· BUS BAR	1		

KOMATSU

ASSEMBLY, BATTERY CABINET

Item	Part No.	Description	Qty.	Unit	Page
40	R107694D10	· BUS BAR	2		
41	R107694D11	· BUS BAR	1		
42	R115117D1	· BUS BAR	1		
43	R107694D13	· BUS BAR	1		
44	R107694D14	· BUS BAR	1		
45	R107694D15	· BUS BAR	1		
46	R107694D16	· BUS BAR	1		
47	R107694D17	· BUS BAR	1		
48	R107694D18	· BUS BAR	1		
49	R107694D19	· BUS BAR	1		
50	R107694D20	· BUS BAR	1		
51	R107694D21	· BUS BAR	1		
52	R107694D22	· BUS BAR	1		
53	R107694D23	· BUS BAR	1		
54	R107694D24	· BUS BAR	1		
55	R107694D25	· BUS BAR	1		
56	R107694D27	· BUS BAR	2		
57	R107694D28	· BUS BAR	1		
58	R107694D26	· BUS BAR	1		
59	R107694D29	· BUS BAR	1		
60	R107694D30	· BUS BAR	1		
61	R80717D1	· BULKHEAD, Power Stud, Black	1		
62	R82605D1	· STUD, Pass-Through, Negative	11		
63	R82605D2	· STUD, Pass-Through, Positive	11		
CBL10AA-121	R4163355	· JUMP START RECEPTACLE	1		
65	R82608D2	· SWITCH, Rotary Disconnect	1		
66	R4267269	· SWITCH, Rotary Disconnect	1		
67	R4240048	· LIGHT, LED - Yellow	1		
68	R4240049	· LIGHT, LED - Red	1		
69	R107697D3	· FUSE	1		
70	R107698D5	· FUSE	1		
71	R107698D11	· FUSE	1		
72	R107698D6	· FUSE	2		
73	R109105D1	· FRAME, ICOTEK Strain Relief	2		
74	R105592D18	· GROMMET, Blind	16		
75	R90727D14	· CONNECTOR	1		
76	R90727D15	· CONNECTOR, Nut	2		
77	R85627D2	· STANDOFF, Insulator	6		
78	R85627D27	· STANDOFF, Insulator	3		
79	R90727D16	· CONNECTOR, Lock Washer	2		

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ASSEMBLY, BATTERY CABINET

Item	Part No.	Description	Qty.	Unit	Page
80	R90727D17	· GASKET, Receptacle	2		
81	R90727D20	· CONNECTOR	1		
82	R111279D16	· DUCT	1		
83	R111279D21	· DUCT	1		
84	R69367D1	· KIT, Grounding Bar	1		
85	R88247D1	· MOUNT, Single	14		
87	20Z1684D1	· RIVET, Flat Hd	7		
88	R105898D20	· DIN RAIL	1		
89	R40118D12	· STOP, End	2		
90	0830M04030	· SCREW, Socket Head	2		
91	0830M05025	· SCREW, Socket Head	8		
92	0856M05012	· SCREW, Pan Head	2		
93	0856M06016	· SCREW, Pan Head	8		
94	0825M06016	· BOLT, Hex Hd	18		
95	R113784D1	· BOLT, Hex Hd	6		
96	R113784D2	· BOLT, Hex Hd	4		
97	0825M08025	· BOLT, Hex Hd	2		
98	R86869D5	· BOLT, Hex Hd	4		
99	R86869D6	· BOLT, Hex Hd	2		
100	R86869D31	· BOLT, Hex Hd	4		
101	R86869D55	· BOLT, Hex Hd	18		
102	R86869D59	· BOLT, Hex Hd	19		
103	20Q262D256	· SCREW, Hex Head Cap	4		
104	2104M006	· NUT, Hex	2		
105	2104M008	· NUT, Hex	12		
106	R80596D4	· NUT, Hex	4		
107	R80596D5	· NUT, Hex	4		
108	2104M012	· NUT, Hex	9		
109	3612M005	· WASHER, Plain	2		
110	3648M006	· WASHER, Hardened	28		
111	3648M008	· WASHER, Hardened	14		
112	R80590D4	· WASHER, Plain	8		
113	R80590D5	· WASHER, Plain	8		
114	3648M012	· WASHER, Hardened	9		
115	3645V037	· WASHER	4		
116	R110923D1	· DECALS, Battery Cabinet	1		46
117	R90727D18	· CAP	2		
118	R89992D1	· DECAL, Warning - Electrical Hazard	2		
119	R111038F22	· WIRE LIST, Battery Cabinet	1		47
120	79Z5622D4	· GROMMET STRIP	1	Foot	

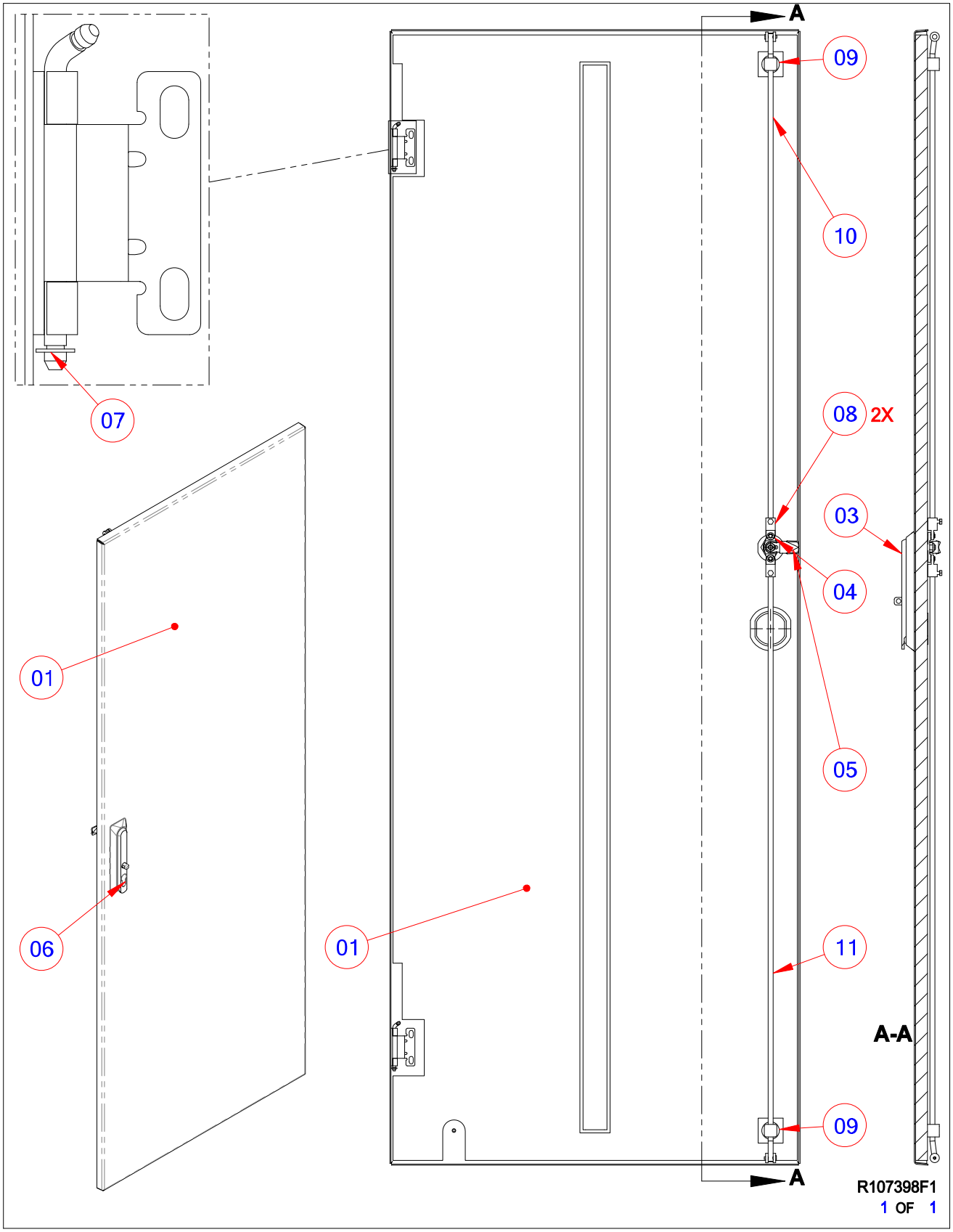
ASSEMBLY, BATTERY CABINET

Item	Part No.	Description	Qty.	Unit	Page
121	R112919D1	· GASKET, Battery Disconnect Switch	2		
122	0825M10050	· BOLT, Hex Hd	1		
123	2104M010	· NUT, Hex	2		
124	3612M010	· WASHER, Plain	5		
125	R106890D010	· WASHER, Lock, External Tooth	1		
126	R112952D1	· GROUND STRAP	1		
127	R113775D9	· WASHER, Nord Lock	56		
128	R86871D7	· NUT, Hex	19		
129	R113775D4	· WASHER, Nord Lock	20		
130	R86871D4	· NUT, Hex	10		
131	R113775D6	· WASHER, Nord Lock	4		
132	R86871D5	· NUT, Hex	2		
133	R113772D1	· BRACKET, Battery Cabinet Standoff	1		
134	R110325D1	· SPACER, Bolt	8		
135	R107390Y135	· FOAM (Not Shown)	2		

BREATHER VENTS INSTALLATION

Item	Part No.	Description	Qty.
	R9005578F1	BREATHER VENTS INSTALLATION	
01	R9001110D1	▪ BREATHER VENT, 1/2 NPT	4

DOOR ASSEMBLY, RH - BATTERY BOX

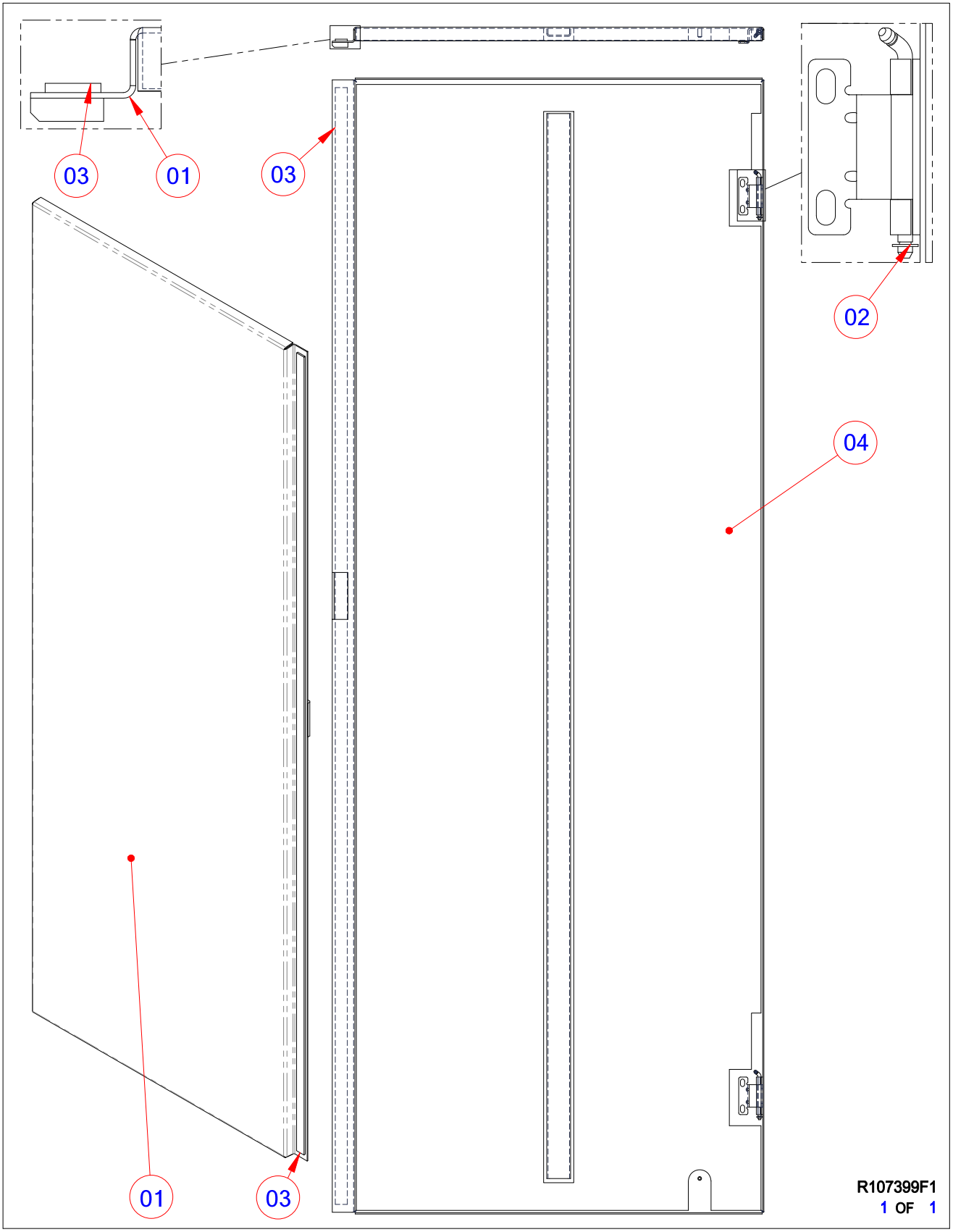


DOOR,ASSEMBLY,RH,BATTERY BOX

DOOR ASSEMBLY, RH - BATTERY BOX

Item	Part No.	Description	Qty.
	R107398F1	DOOR ASSEMBLY, RH - BATTERY BOX	
01	R107398D1	▪ WELDMENT, Door	1
02	R107398F1Y2	▪ INSULATION	1
03	R90521D1	▪ HANDLE, Swing	1
04	R90522D1	▪ CONTROL, Rod	1
05	R90526D1	▪ CAM	1
06	R90523D1	▪ PLUG, Blind	1
07	R90524D1	▪ CIRCLIP	2
08	R90525D1	▪ ADAPTER, Rod	2
09	R90602D1	▪ GUIDE, Rod	2
10	R107400D1	▪ LOCKING ROD, Battery Box - Bottom	1
11	R107400D2	▪ LOCKING ROD, Battery Box - Bottom	1

DOOR ASSEMBLY, LH - BATTERY BOX



DOOR,ASSEMBLY,LH,BATTERY BOX

DOOR ASSEMBLY, LH - BATTERY BOX

Item	Part No.	Description	Qty.
	R107399F1	DOOR ASSEMBLY, LH - BATTERY BOX	
01	R107399D1	▪ WELDMENT, Door	1
02	R90524D1	▪ CIRCLIP	2
03	R107399F1Y3	▪ FOAM	1
04	R107399F1Y4	▪ INSULATION	1

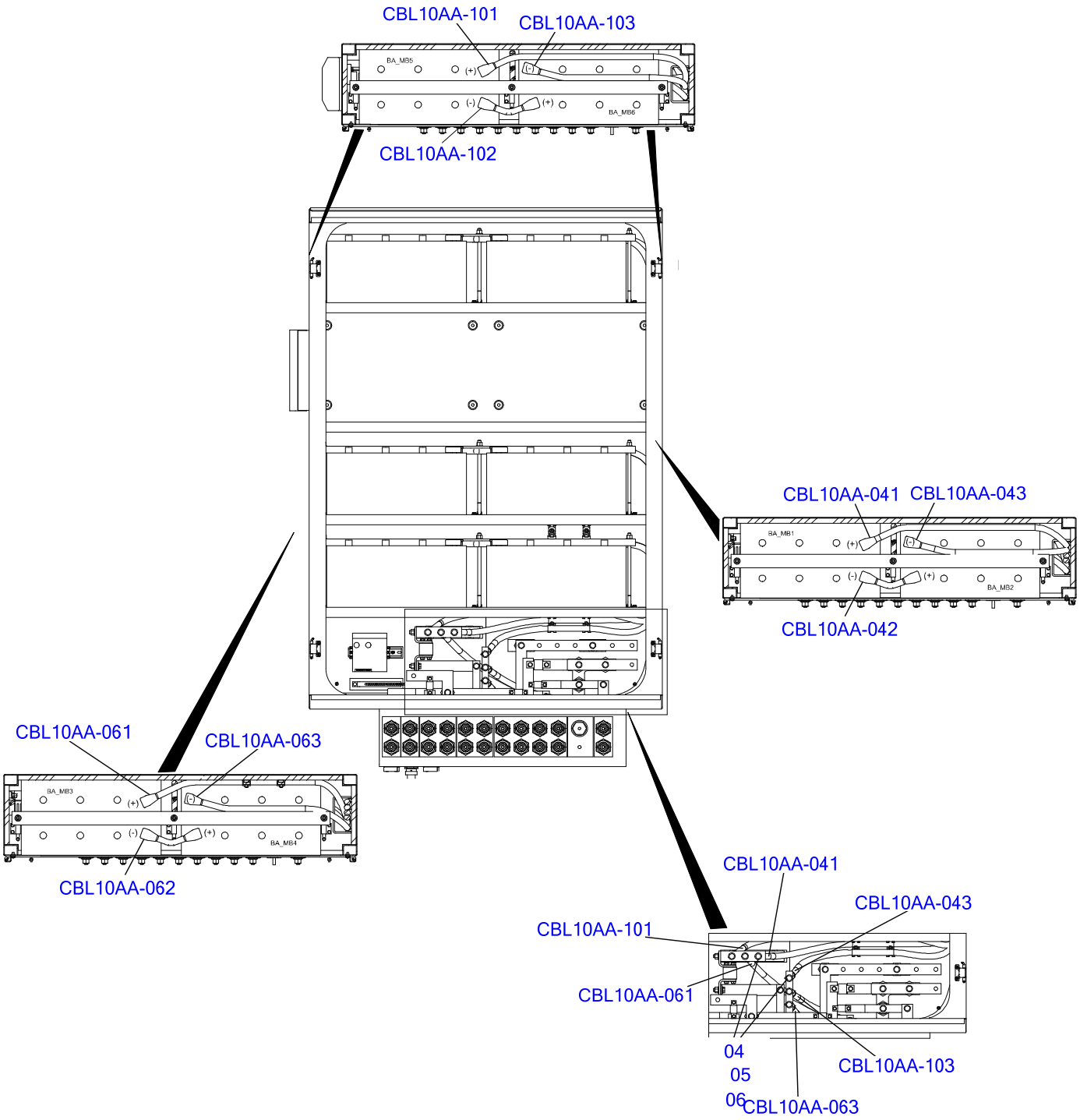
DECALS, BATTERY CABINET (NOT ILLUSTRATED)

Item	Part No.	Description	Qty.
01	R110923D1	DECALS, BATTERY CABINET	
02	R110923D2	▪ DECAL, ENGINE STARTERS	1
03	R110923D3	▪ DECAL, ALTERNATOR	1
04	R110923D4	▪ DECAL, APU	1
05	R110923D5	▪ DECAL, TIER 4 ALT	1
06	R110923D6	▪ DECAL, DECK CRANE	1
07	R110923D7	▪ DECAL, CWLDS	1
08	R110923D8	▪ DECAL, GROUND	1

WIRE LIST, BATTERY CABINET (Not Illustrated)

Item	Part No.	Description	Qty.	Unit
	R111038F22	WIRE LIST, BATTERY CABINET		
WID01		・CABLE, #14 AWG	1	
	208481290	・・CABLE, 14AWG, Black	35	Foot
02	79U2522D13	・TERMINAL, Solderless	1	
03	32Z890D1	・TIE, Wire	20	
WID11	R111038F22Y2	・CABLE, 2 AWG	1	
05	79U2522D7	・TERMINAL LUGS SOLDERLESS	3	
06	R113784D1	・BOLT, Hex Head	3	
07	R86869D57	・BOLT, Hex Head	1	
08	R113775D4	・WASHER, Nord Lock	6	
09	R113775D9	・WASHER, Nord Lock	2	
10	R86871D4	・NUT, Hex	3	
11	R86871D7	・NUT, Hex	1	
12	79U2522D41	・TERMINAL LUGS SOLDERLESS	1	

WIRE LIST, BATTERY CABLES

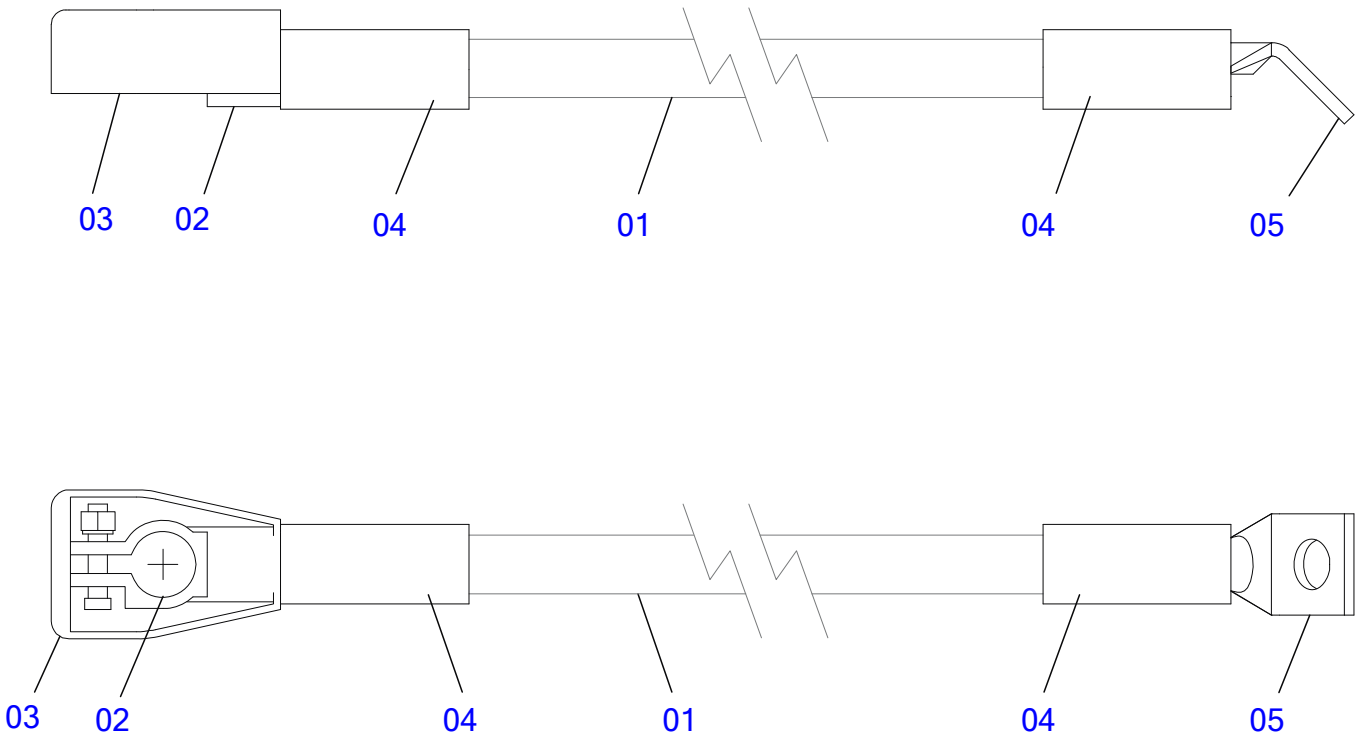


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WIRE LIST, BATTERY CABLES

Item	Part No.	Description	Qty.	Page
	R111038F20	WIRE LIST, BATTERY CABLES		
01	R4270134	▪ JUMPER BATTERY TO BATTERY	3	
CBL10AA-042			1	
CBL10AA-062			1	
CBL10AA-102			1	
02	R111878F1	▪ BATTERY CABLE, Positive	2	49
CBL10AA-041			1	
CBL10AA-061			1	
03	R111878F2	▪ BATTERY CABLE, Negative	2	50
CBL10AA-043			1	
CBL10AA-063			1	
04	R86869D57	▪ BOLT, Hex Hd	6	
05	R113775D9	▪ WASHER, Nord Lock	12	
06	R86871D7	▪ NUT, Hex	6	
07	R88249D1	▪ TIE, Wire	25	
08		NOT USED		
09	R111878F3	▪ BATTERY CABLE, Positive	1	51
CBL10AA-101			1	
10	R111878F4	▪ BATTERY CABLE, Negative	1	52
CBL10AA-103			1	

BATTERY CABLE, POSITIVE

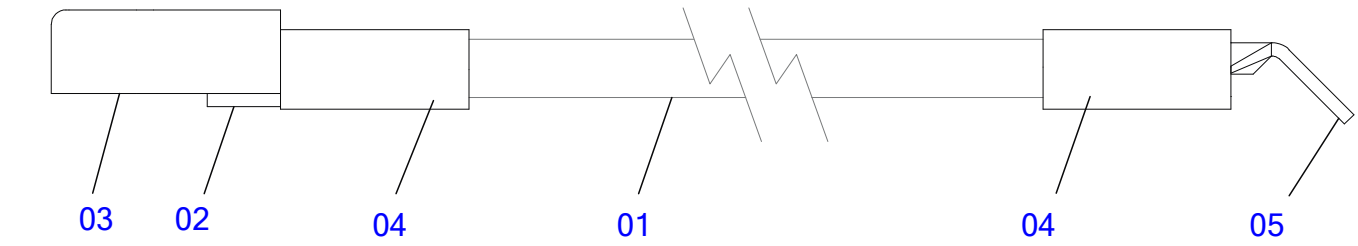


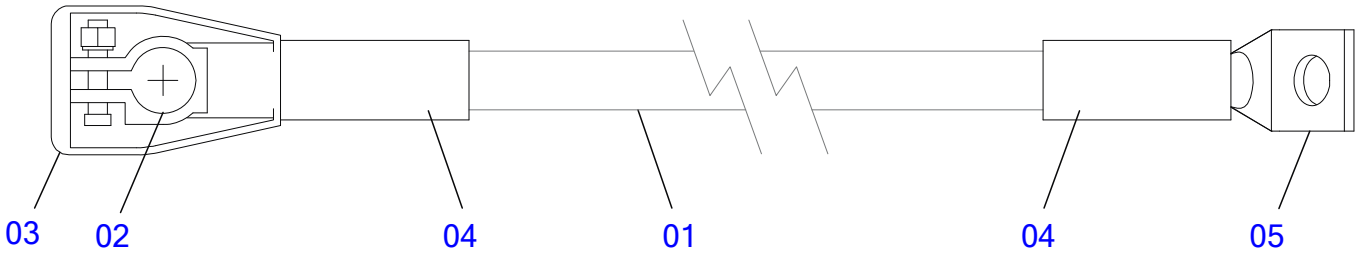
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BATTERY CABLE, POSITIVE

Item	Part No.	Description	Qty.	Unit
	R111878F1	BATTERY CABLE, POSITIVE		
01	R111878F1Y1	▪ CABLE, 4 AWG, 1 Cond	1	
02	R4140758	▪ BATTERY TERMINAL, Positive	1	
03	R4235607	▪ CAP, Battery Terminal	1	
04	R4170167	▪ HEAT SHRINK, Clear	2	Foot
05	R93952D37	▪ LUG	1	

BATTERY CABLE, NEGATIVE



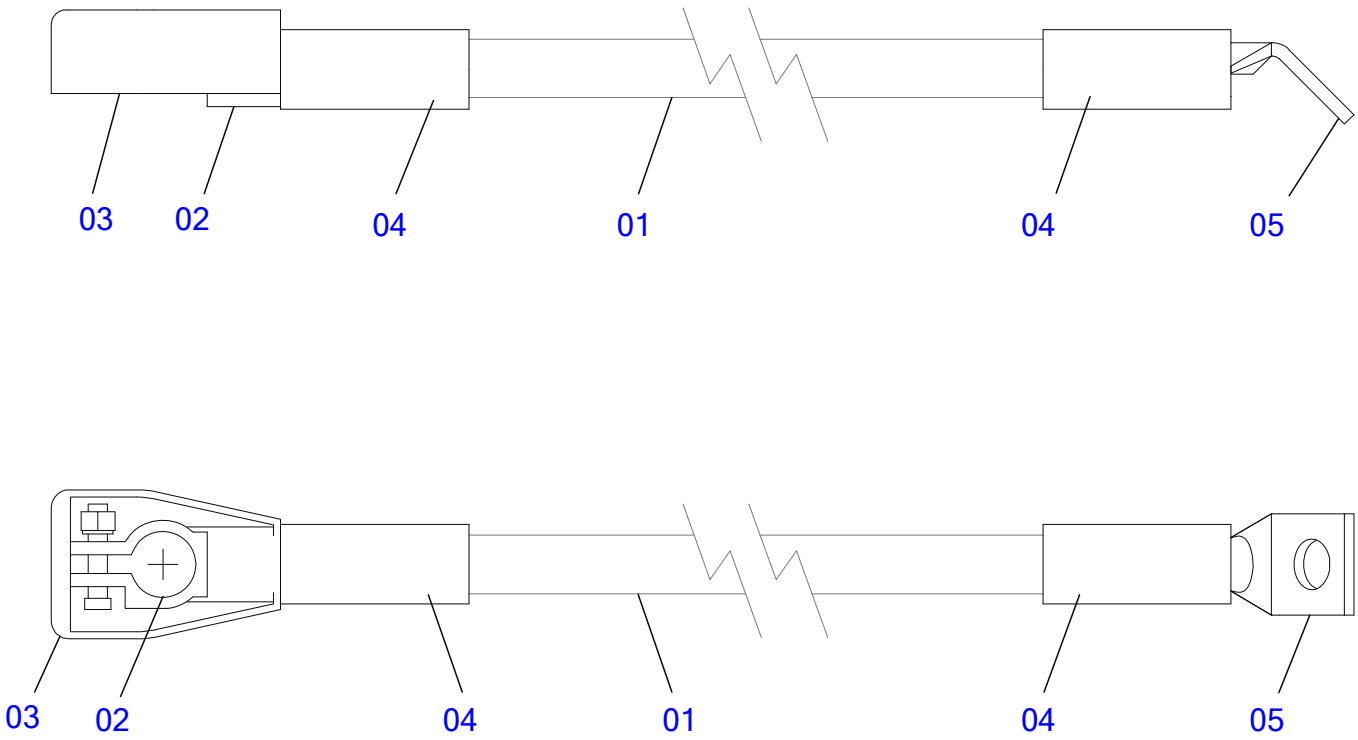


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BATTERY CABLE, NEGATIVE

Item	Part No.	Description	Qty.	Unit
	R111878F2	BATTERY CABLE, NEGATIVE		
01	R111878F2Y1	▪ CABLE, 4 AWG, 1 Cond	1	
02	R4140759	▪ BATTERY TERMINAL, Negative	1	
03	R4235607	▪ CAP, Battery Terminal	1	
04	R4170167	▪ HEAT SHRINK, Clear	2	Foot
05	R93952D37	▪ LUG	1	

BATTERY CABLE, POSITIVE

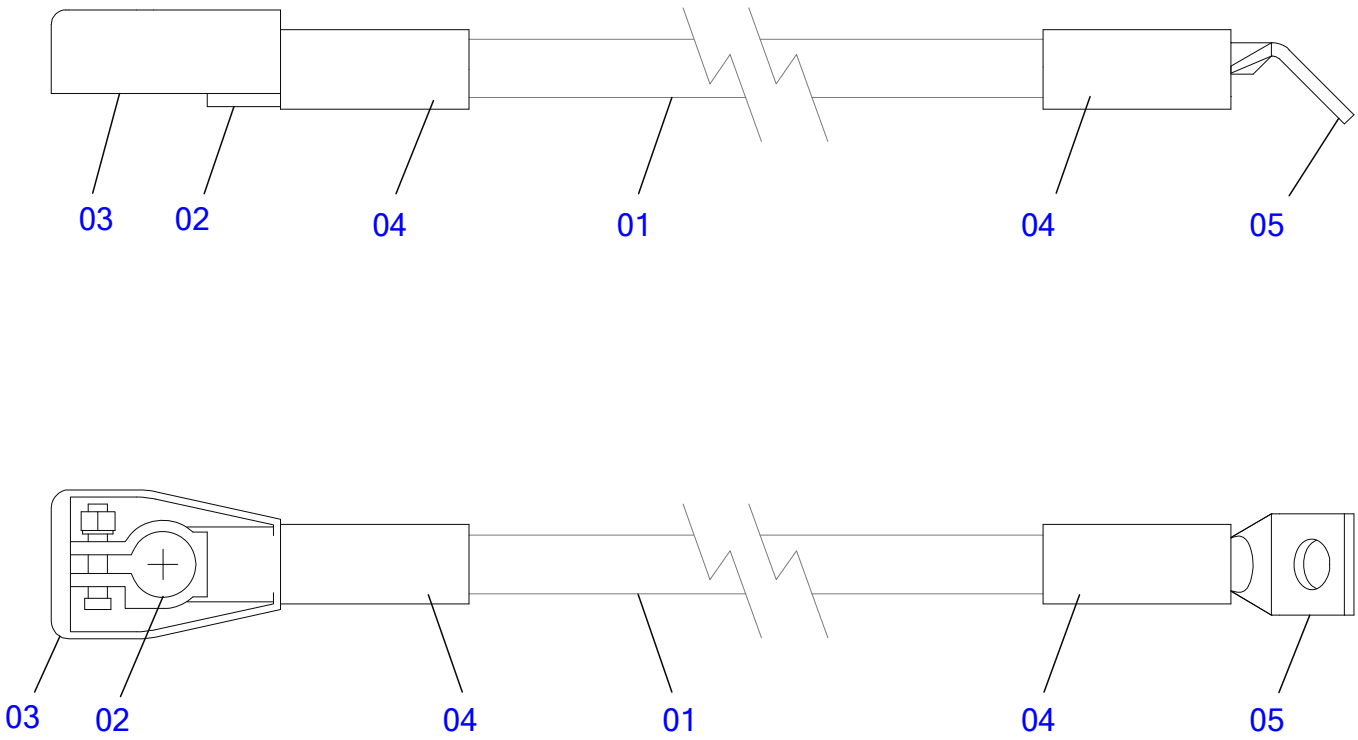


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BATTERY CABLE, POSITIVE

Item	Part No.	Description	Qty.	Unit
	R111878F3	BATTERY CABLE, POSITIVE		
01	R111878F3Y1	▪ CABLE, 4 AWG, 1 Cond	1	
02	R4140758	▪ BATTERY TERMINAL, Positive	1	
03	R4235607	▪ CAP, Battery Terminal	1	
04	R4170167	▪ HEAT SHRINK, Clear	2	Foot
05	R93952D37	▪ LUG	1	

BATTERY CABLE, NEGATIVE

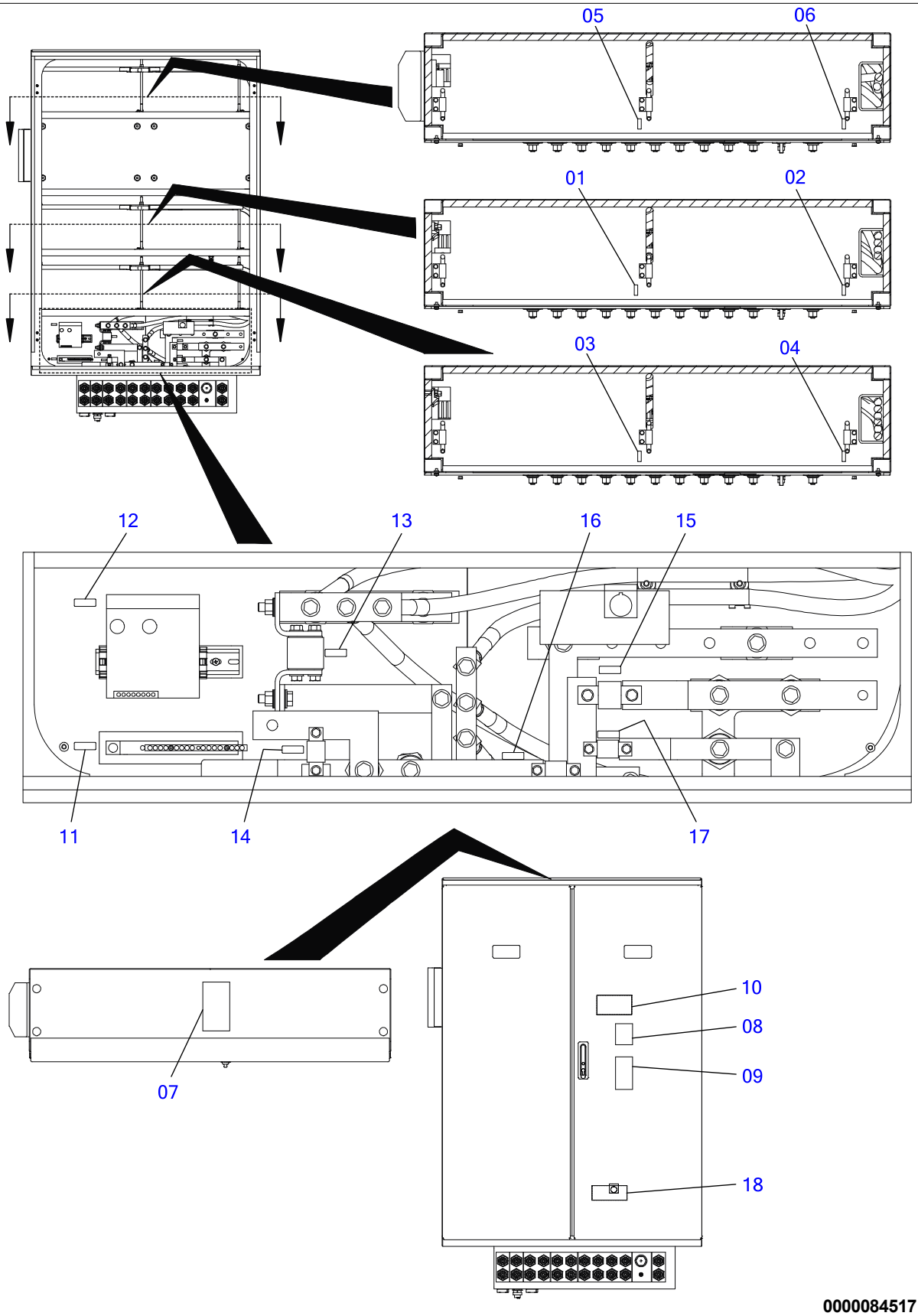


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BATTERY CABLE, NEGATIVE

Item	Part No.	Description	Qty.	Unit
	R111878F4	BATTERY CABLE, NEGATIVE		
01	R111878F4Y1	▪ CABLE, 4 AWG, 1 Cond	1	
02	R4140759	▪ BATTERY TERMINAL, Negative	1	
03	R4235607	▪ CAP, Battery Terminal	1	
04	R4170167	▪ HEAT SHRINK, Clear	2	Foot
05	R93952D37	▪ LUG	1	

DECALS, BATTERY BOX



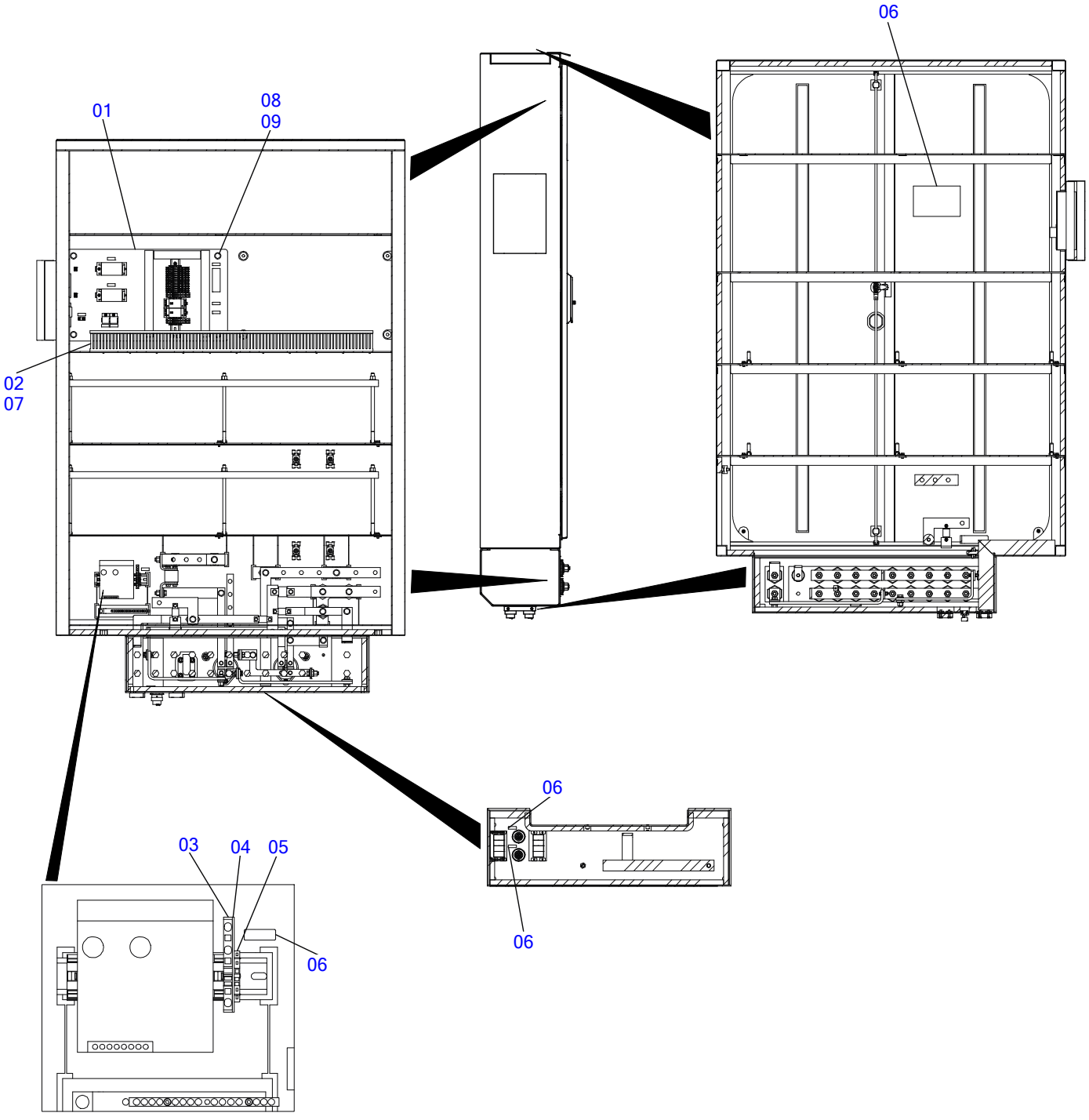
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DECALS, BATTERY BOX

DECALS, BATTERY BOX

Item	Part No.	Description	Qty.
	R112938D1	DECALS, BATTERY BOX	
01	R112938D2	▪ DECAL, BA_MB1	1
02	R112938D3	▪ DECAL, BA_MB2	1
03	R112938D4	▪ DECAL, BA_MB3	1
04	R112938D5	▪ DECAL, BA_MB4	1
05	R112938D6	▪ DECAL, BA_MB5	1
06	R112938D7	▪ DECAL, BA_MB6	1
07	R112938D8	▪ DECAL, BATTERY LIFTING	1
08	R112938D9	▪ DECAL, PPE WARNING	1
09	R112938D10	▪ DECAL, EXPLOSIVE WARNING	1
10	R112938D11	▪ DECAL, BATTERY INFORMATION	1
11	R112938D12	▪ DECAL, GR_BCGB	1
12	R112938D13	▪ DECAL, DV_BCTC	1
13	R112938D14	▪ DECAL, FU_MAIN	1
14	R112938D15	▪ DECAL, FU_T4	1
15	R112938D16	▪ DECAL, FU_CP	1
16	R112938D17	▪ DECAL, FU_CWP	1
17	R112938D18	▪ DECAL, FU_DC	1
18	R112938D19	▪ DECAL, FUSE INFORMATION	1

INSTALLATION, ELECTRICAL QST30 T4

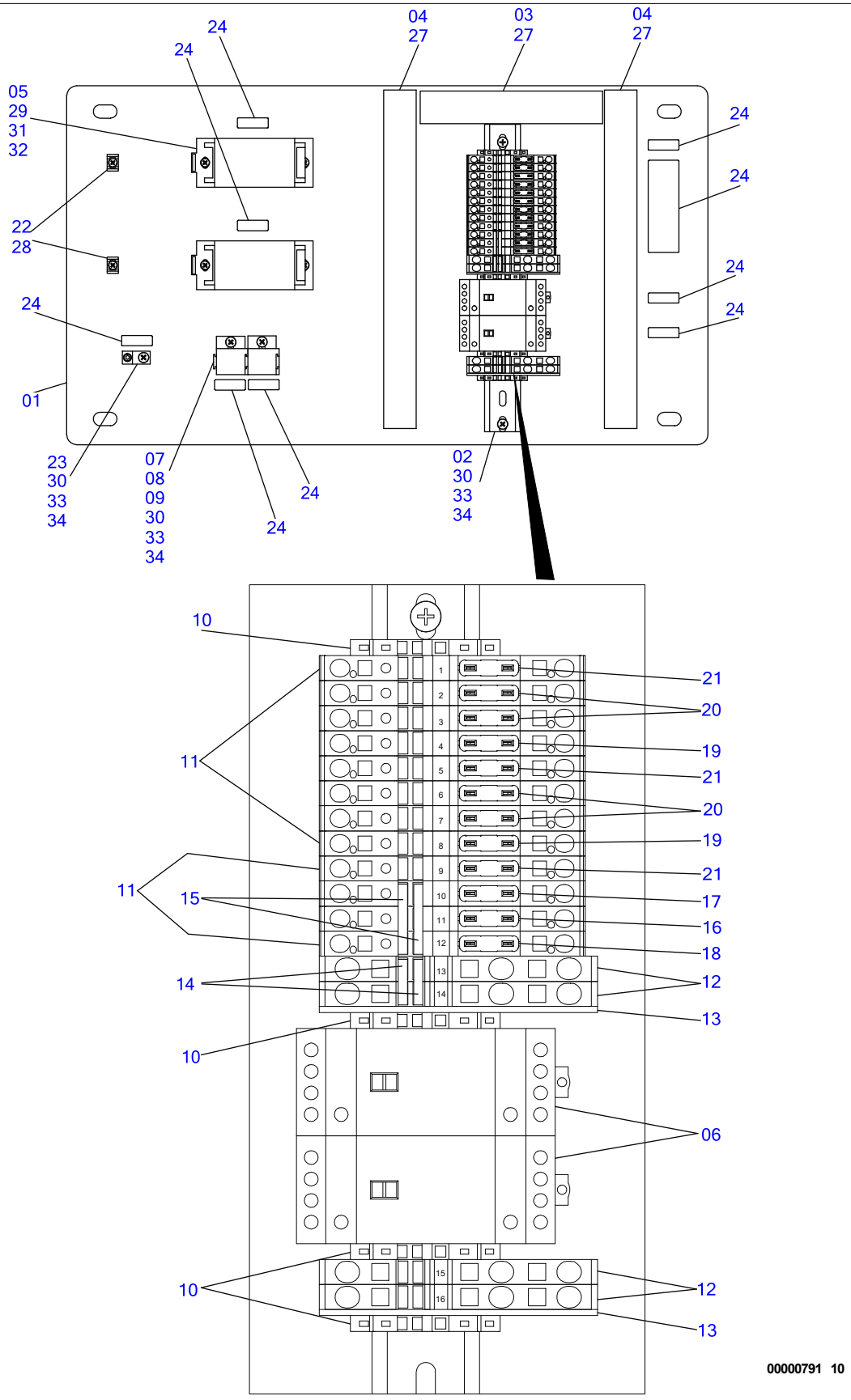


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INSTALLATION, ELECTRICAL QST30 T4

Item	Part No.	Description	Qty.	Page
	R111367F1	INSTALLATION, ELECTRICAL QST30 T4		
01	R111323F1	▪ PANEL ASSEMBLY, QST30 T4	1	55
02	R110046D85	▪ DUCT, Gray	1	
03	R88487D1	▪ BLOCK, Terminal	1	
04	R88487D4	▪ END COVER, Terminal Block	1	
05	R82712D1	▪ CLAMP, End	1	
06	R112224D1	▪ DECALS, Tier 4 Enclosure	1	
07	20Z1684D1	▪ RIVET, Flat Hd	22	
08	0825M12025	▪ BOLT, Hex Hd	4	
09	3612M012	▪ WASHER, Plain	4	
10	R111038F15	▪ WIRE LIST, Tier 4 Cabinet (Not Shown)	1	56

PANEL ASSEMBLY, QST30 TIER 4



PANEL ASSEMBLY, QST30 T4

PANEL ASSEMBLY, QST30 TIER 4

Item	Part No.	Description	Qty.
	R111323F1	PANEL ASSEMBLY, QST30 TIER 4	
01	R110773D1	· PLATE, Tier 4 Panel	1
02	R105898D30	· DIN RAIL, Type-O	1
03	R111279D14	· DUCT, Gray	1
04	R111279D26	· DUCT, Gray	2
05	R85635D1	· BLOCK, Power Distribution	2
06	R110587D1	· CONTACTOR, Modular	2
07	R4260949	· BRACKET, Relay Mounting	2
08	R4260950	· RELAY, 20A	2
09	R4260955	· CONNECTOR, w/ Tang	2
10	R82712D1	· CLAMP, End	4
11	R80858D1	· BLOCK, Terminal	12
12	R88487D1	· BLOCK, Terminal	4
13	R88487D4	· END COVER, Terminal Block	2
14	R82385D1	· BRIDGE, Plug-In, 2 Position	2
15	R82385D2	· BRIDGE, Plug-In, 3 Position	2
16	R82706D2	· FUSE, 2A	1
17	R82706D4	· FUSE, 4A	1
18	R82706D5	· FUSE, 5A	1
19	R82706D6	· FUSE, 7.5A	2
20	R82706D7	· FUSE, 10A	4
21	R82706D8	· FUSE, 15A	3
22	20Z1497D7	· RETAINER, Tie Pad	2
23	R96009D1	· GROUNDING LUG	1
24	R111593D1	· DECALS, Tier 4 Panel	1
25	R90706D2	· MARKER, Terminal Block (Not Shown)	2
26	R90706D1	· MARKER, Terminal Block (Not Shown)	2
27	20Z1684D1	· RIVET, Flat Hd	8
28	0856M04010	· SCREW, Pan Head	2
29	0856M04016	· SCREW, Pan Head	4
30	0856M05012	· SCREW, Pan Head	6
31	3612M004	· WASHER, Plain	4
32	3615M004	· WASHER, LOCK, REGULAR, M4	4
33	3612M005	· WASHER, Plain	6
34	3615M005	· M5 LOCKWASHER	6
35	R111038F16	· WIRE LIST, Tier 4 Panel (Not Shown)	1

WIRE LIST, TIER 4 CABINET (Not Illustrated)

Item	Part No.	Description	Qty.	Unit
	R111038F15	WIRE LIST, TIER 4 CABINET (Not Illustrated)		
CBL 12D-021		・CABLE, 16AWG, Black		
		・CABLE, 16AWG, Black	1	
CBL 12D-081	208481190	・・CABLE, 16AWG, Black	148	Foot
WID1		・CABLE, 4 AWG, Black	1	
	208481681	・・CABLE, 4 AWG, Black	22	Foot
WID5		・CABLE, 6AWG, Green	1	
	0250815380	・・CABLE, 6AWG, Green	19	Foot
04	R92456D5	・CONTACT PIN, Receptacle	9	
05	R94604D25	・CONTACT, Pin	5	
06	79U2522D35	・LUG, Terminal	2	
07		NOT USED		
08	R86869D57	・BOLT, Hex Hd	2	
09	R113775D9	・WASHER, Nord-Lock	4	
10	R86871D7	・NUT, Hex	2	

KOMATSU

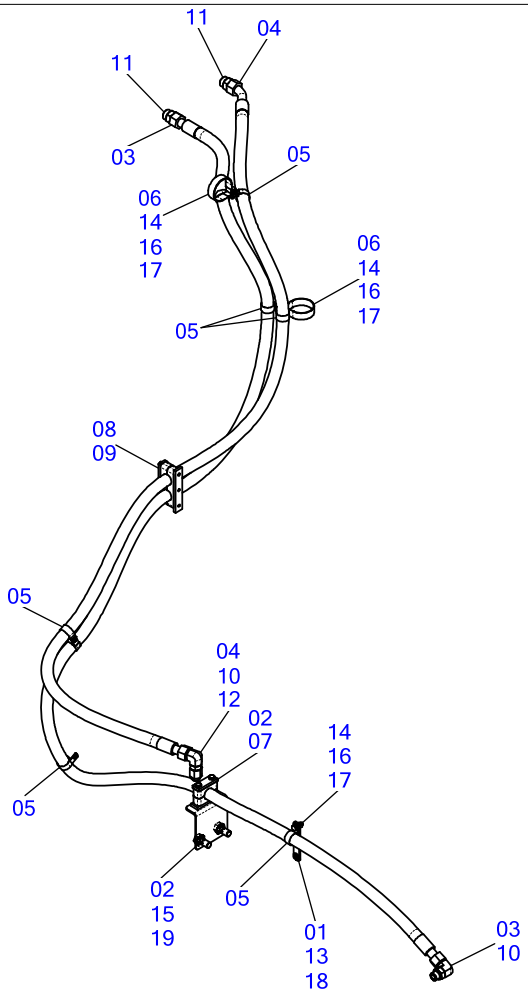
WIRE LIST, BATTERY CABINET INTERCONNECT (Not Illustrated)

Item	Part No.	Description	Qty.	Unit
	R111038F21	WIRE LIST, BATTERY CABINET INTERCONNECT		
01		▪ CABLE, 16AWG, Black	1	
	208481190	▪ ▪ CABLE, 16AWG, Black	35	Foot
02		▪ CABLE, 14AWG, Black	1	
	208481290	▪ ▪ CABLE, 14AWG, Black	101	Foot
03		▪ CABLE, 4/0 AWG, Black	1	
	505581722	▪ ▪ CABLE, 4/0 AWG, Black	15	Foot
04	R92457D1	▪ CONNECTOR, Receptacle	1	
05	R92457D3	▪ RECEPTACLE, Locking Wedge	1	
06	R92457D5	▪ CONNECTOR, Receptacle, Male Contact	4	
07	79U2522D13	▪ TERMINAL, Solderless	2	
08	79U2522D57	▪ LUG, Terminal	8	
09	R86869D57	▪ BOLT, Hex Hd	4	
10	R113775D9	▪ WASHER, Nord Lock	8	
11	R86871D7	▪ NUT, Hex	4	
12	32Z890D1	▪ TIE, Wire	20	

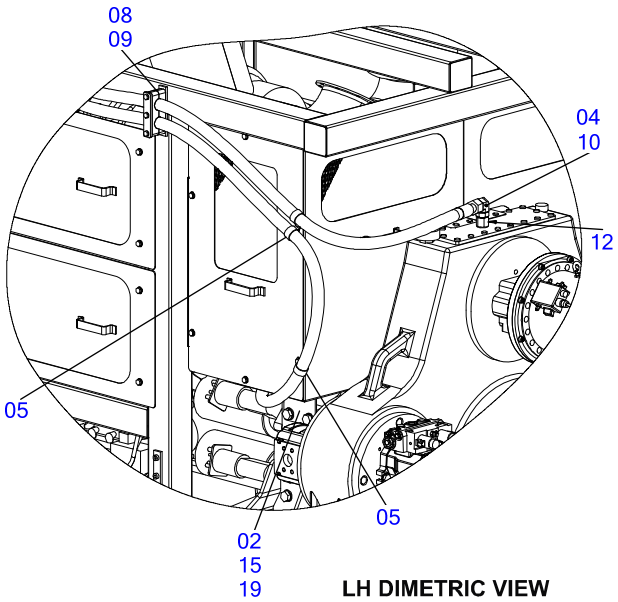
DECALS, CABINET FUSE LISTS (Not Illustrated)

Item	Part No.	Description	Qty.
	R9004592F1	DECALS, CABINET FUSE LISTS	
01	R9004588D1	▪ DECAL, Control Panel 1 - Fuse Block List	1
02	R9004589D1	▪ DECAL, Control Panel 1 - Fuse Terminal List	1
03	R9004590D1	▪ DECAL, Control Panel 2 - Fuse Terminal List	1
04	R9004591D1	▪ DECAL, Battery Cabinet Fuse List	1

INSTALLATION, PDT COOLING ROUTINGS

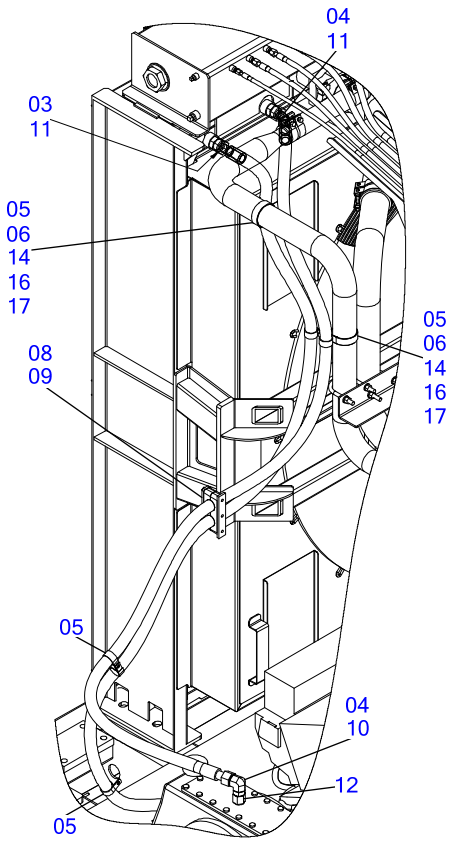


DIAMETRIC VIEW



LH DIMETRIC VIEW

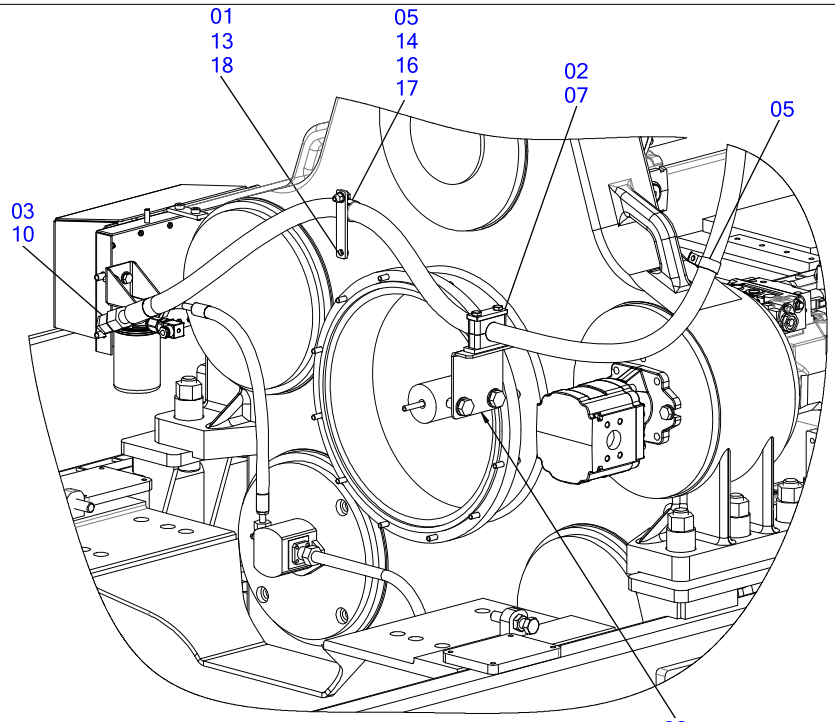
RADIATOR HIDDEN FOR CLARITY



PDT / RADIATOR RH ISOMETRIC VIEW

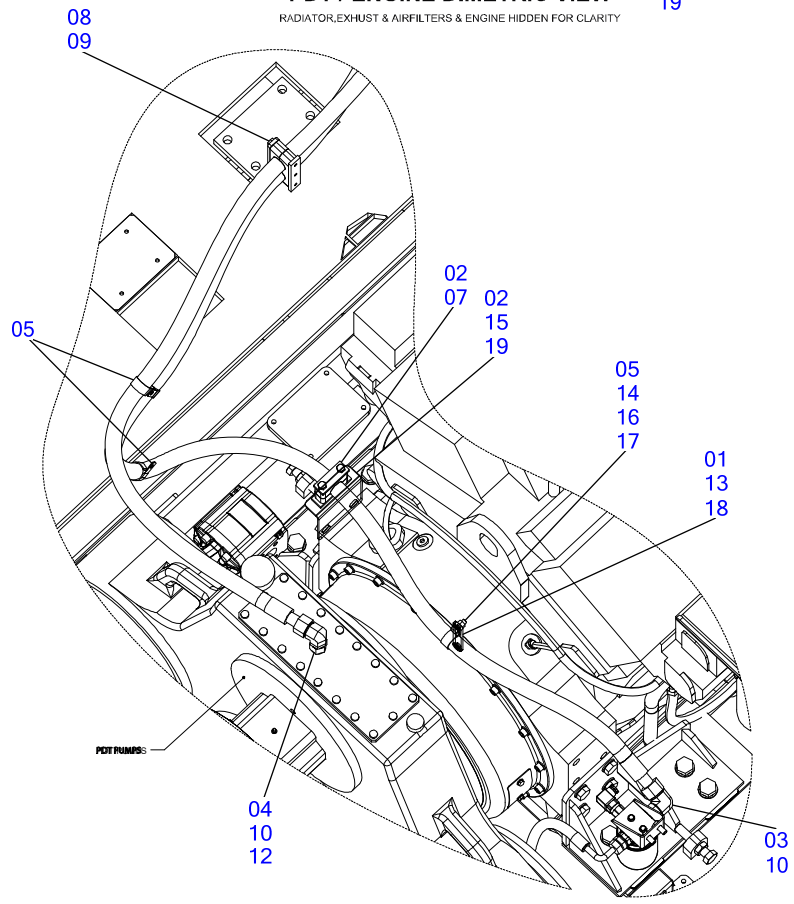
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INSTALLATION, PDT COOLING ROUTINGS



PDT / ENGINE DIMETRIC VIEW

RADIATOR,EXHUST & AIRFILTERS & ENGINE HIDDEN FOR CLARITY



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PDT / ENGINE TOP ISOMETRIC VIEW

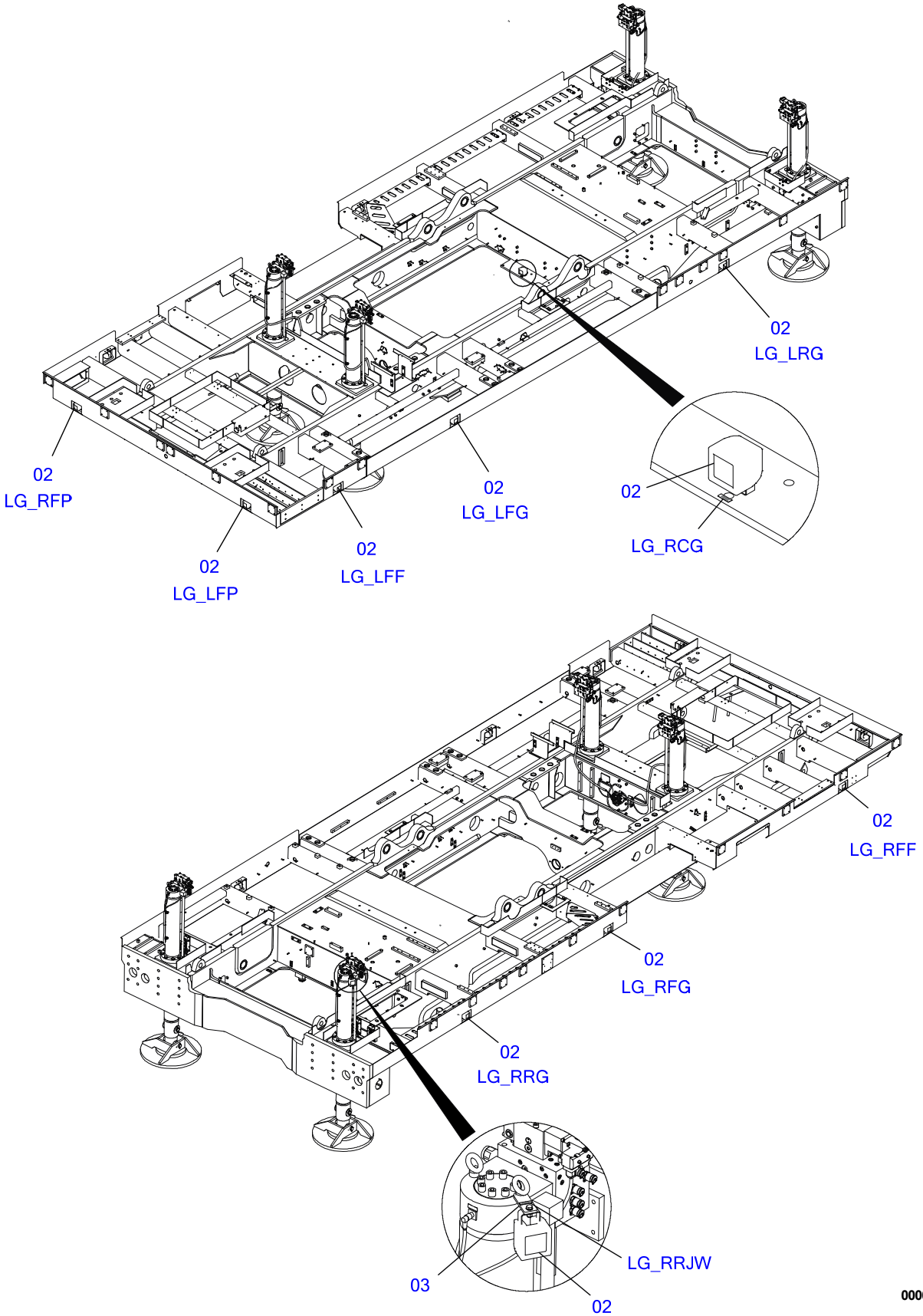
EXHUST & AIRFILTERS HIDDEN FOR CLARITY

INSTALLATION, PDT COOLING ROUTINGS

INSTALLATION, PDT COOLING ROUTINGS

Item	Part No.	Description	Qty.
	R104303F2	INSTALLATION, PDT COOLING ROUTINGS	
01	R104304D1	▪ PLATE, P Clamp	1
02	R104305D1	▪ CLAMP BASE, Twin	1
03	R86866T25D465	▪ HOSE ASSEMBLY	1
04	R86867T25D336	▪ HOSE ASSEMBLY	1
05	32Z423D4	▪ CLAMP, Insulated	8
06	32Z423D43	▪ CLAMP, Insulated	2
07	R78953D27	▪ CLAMP	1
08	R92795D10	▪ CLAMP, Heavy Twin	1
09	R92793D2	▪ PLATE, Heavy Twin Clamp Base	1
10	44Z2577D27	▪ 90 DEG BULKHEAD	2
11	44Z2574D7	▪ CONNECTOR, Reducing	2
12	R104306D1	▪ ADAPTER	1
13	0630M12040	▪ SCREW, Socket Head	1
14	0825M10030	▪ BOLT, Hex Hd	3
15	0825M20040	▪ BOLT, Hex Hd	2
16	2104M010	▪ NUT, Hex	3
17	3648M010	▪ WASHER, Hardened	6
18	3648M012	▪ WASHER, Hardened	1
19	3648M020	▪ WASHER, Hardened	2
20	21Z772D4	▪ COMPOUND, Sealing and Locking (Not Shown)	1

LIGHTING INSTALLATION, MAINFRAME

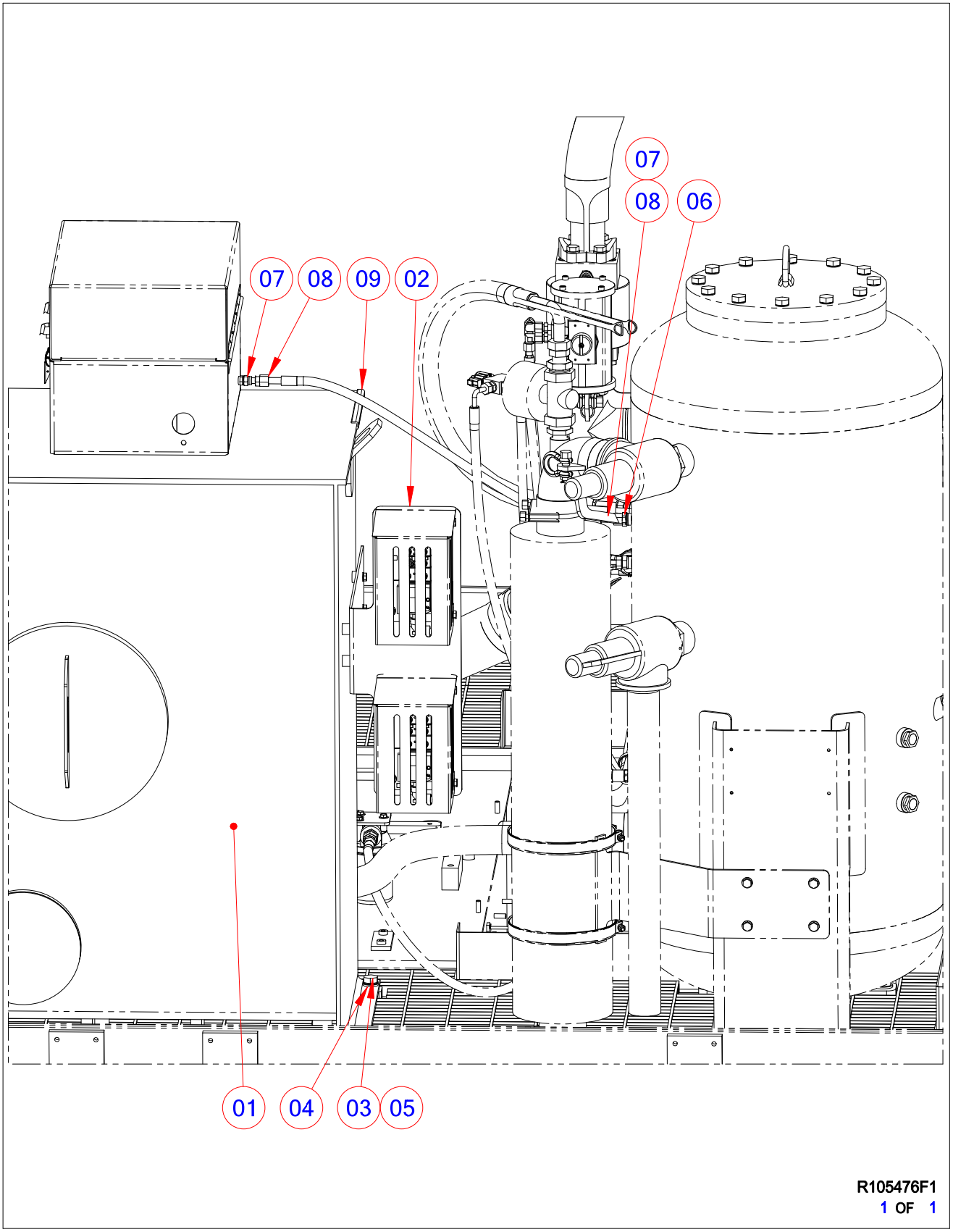


LIGHTING INSTALLATION, MAINFRAME

LIGHTING INSTALLATION, MAINFRAME

Item	Part No.	Description	Qty.
	R112441F1	LIGHTING INSTALLATION, MAINFRAME	
LG_LFF	R97643D1	・FLOODLIGHT, LED	1
LG_LFG	R97643D1	・FLOODLIGHT, LED	1
LG_LFP	R97643D1	・FLOODLIGHT, LED	1
LG_LRG	R97643D1	・FLOODLIGHT, LED	1
LG_RCG	R97643D1	・FLOODLIGHT, LED	1
LG_RFF	R97643D1	・FLOODLIGHT, LED	1
LG_RFG	R97643D1	・FLOODLIGHT, LED	1
LG_RFP	R97643D1	・FLOODLIGHT, LED	1
LG_RRG	R97643D1	・FLOODLIGHT, LED	1
LG_RRJW	R97643D1	・FLOODLIGHT, LED	1
02	R99508D1	・DECALS, Chassis, Lighting	1
03	R99535D1	・BRACKET, Light	1

INSTALLATION, HYDRAULIC TANK



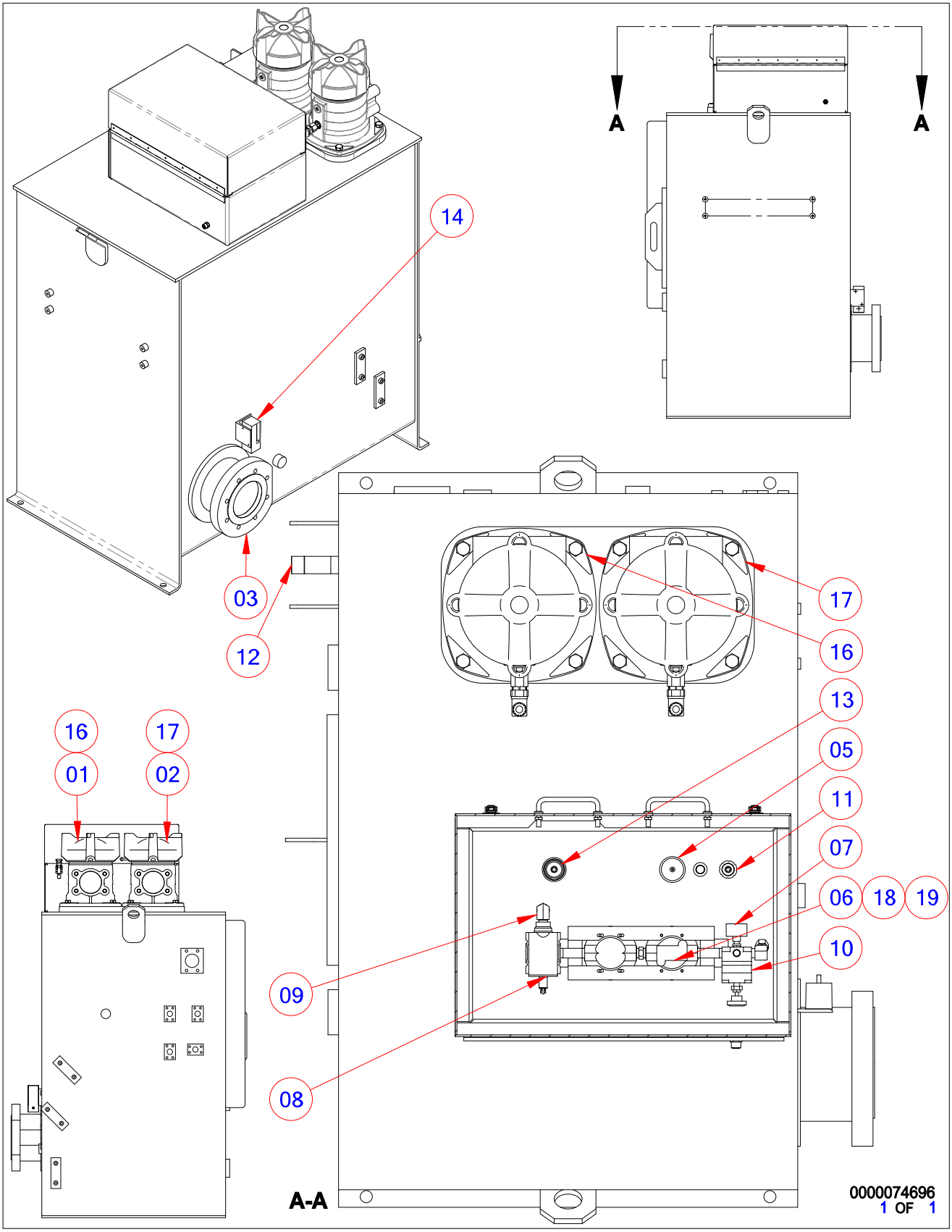
INSTL,HYD TANK

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INSTALLATION, HYDRAULIC TANK

Item	Part No.	Description	Qty.	Page
	R105476F1	INSTALLATION, HYDRAULIC TANK		
01	R90068D3	▪ ASSEMBLY, Hydraulic Tank	1	62
02	R90228F1	▪ ELECTRICAL I/O MODULES, Hydraulic Tank	1	63
03	0825M20090	▪ BOLT, Hex Hd	4	
04	R82264D12	▪ WASHER, Nord Lock	8	
05	2104M020	▪ NUT, Hex	4	
06	R87378D12	▪ ADAPTER, Straight	1	
07	R77921D5	▪ FITTING, Expander	1	
08	R81800T08D41	▪ HOSE ASSEMBLY	1	
09	R105476Y9	▪ TRIM, Quickedge	1	

ASSEMBLY, HYDRAULIC TANK

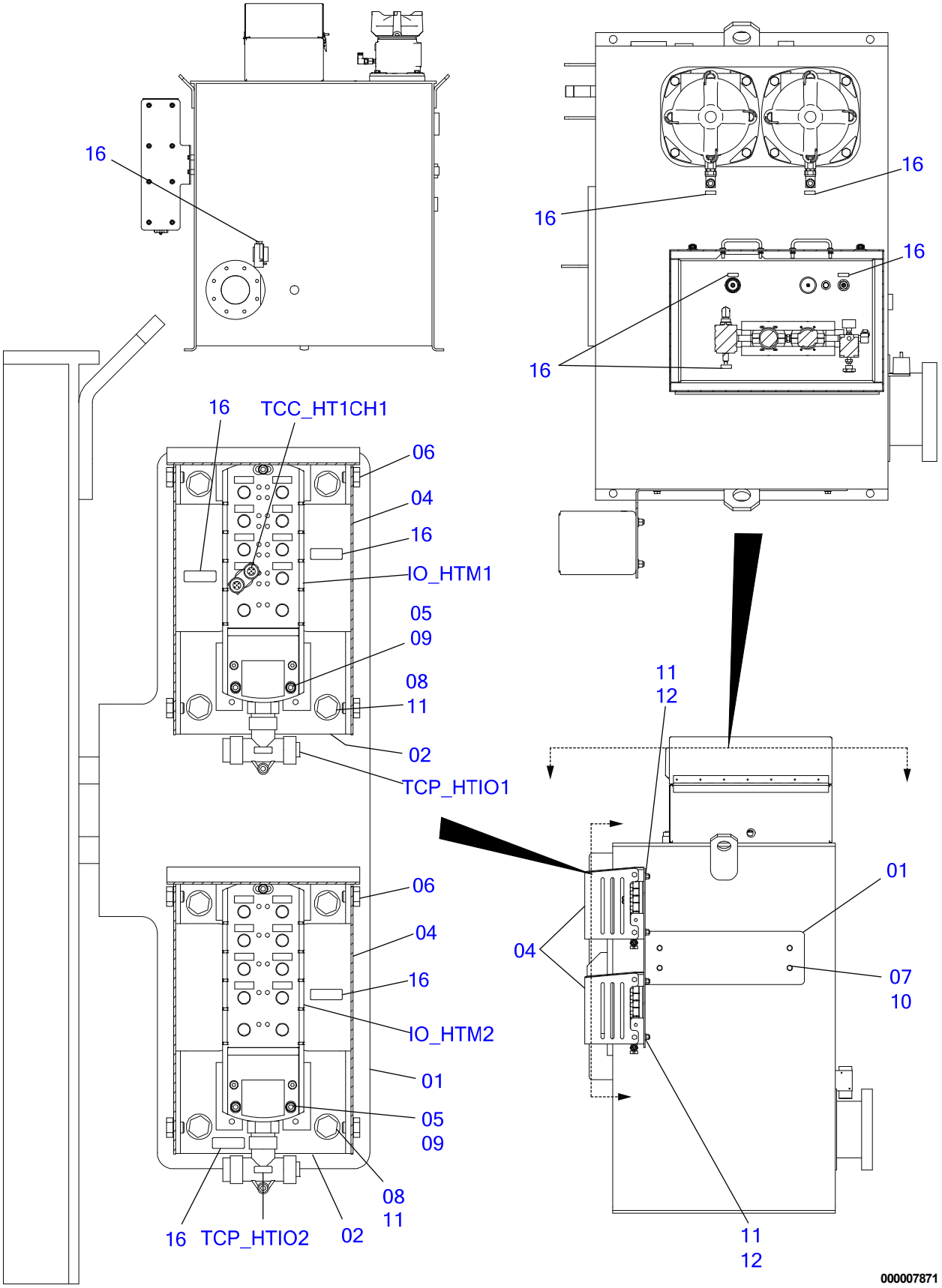


ASSY,HYD TANK

ASSEMBLY, HYDRAULIC TANK

Item	Part No.	Description	Qty.
	R90068D3	ASSEMBLY, HYDRAULIC TANK	
01	R89843D1	· FILTER, Main Return	1
02	R89844D1	· FILTER, Kidney Loop Return	1
03	R89845D1	· VALVE, Ball, 6 Inch	1
04	R89846D1	· VALVE, Ball	1
05	R89847D1	· VALVE, Air Relief	1
06	R89848D1	· DUAL AIR FILTERS, 5 and 0.3 Micron	1
07	R89849D1	· GAUGE, Pressure, 0-30 PSI	1
08	R89850D1	· SOLENOID VALVE, 3 Way, 2 Position	1
09	R89851D1	· SILENCER, Exhaust	1
10	R89852D1	· REGULATOR WITH GAUGE	1
11	R89853D1	· TRANSDUCER, Pressure	1
12	R95996D1	· GAUGE, Sight Level	1
13	R89868D1000	· TRANSDUCER, Level	1
LS_HTSPMO	79Q1867D18	· SWITCH, Limit	1
15	79Q1867D6	· ARM, Limit Switch	1
16	R89958D1	· FILTER ELEMENT, Main Hydraulic	1
17	R89959D1	· FILTER ELEMENT, Hydraulic Kidney Loop	1
18	R101379D1	· FILTER ELEMENT, First Stage Air	1
19	R101380D1	· FILTER ELEMENT, Second Stage Air	1

ELECTRICAL I/O MODULES, HYDRAULIC TANK

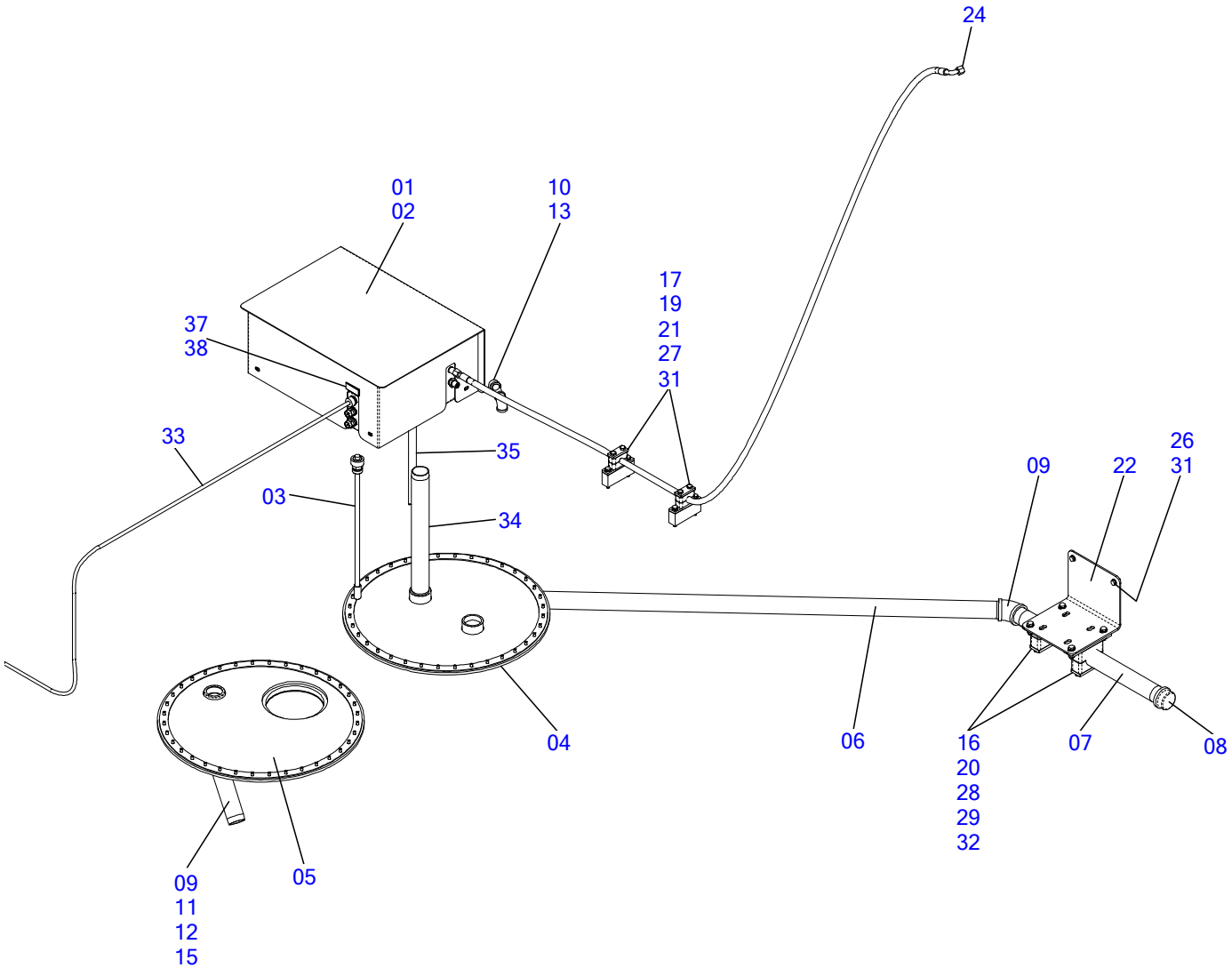


ELECTRICAL INSTALLATION, HYDRAULIC TANK

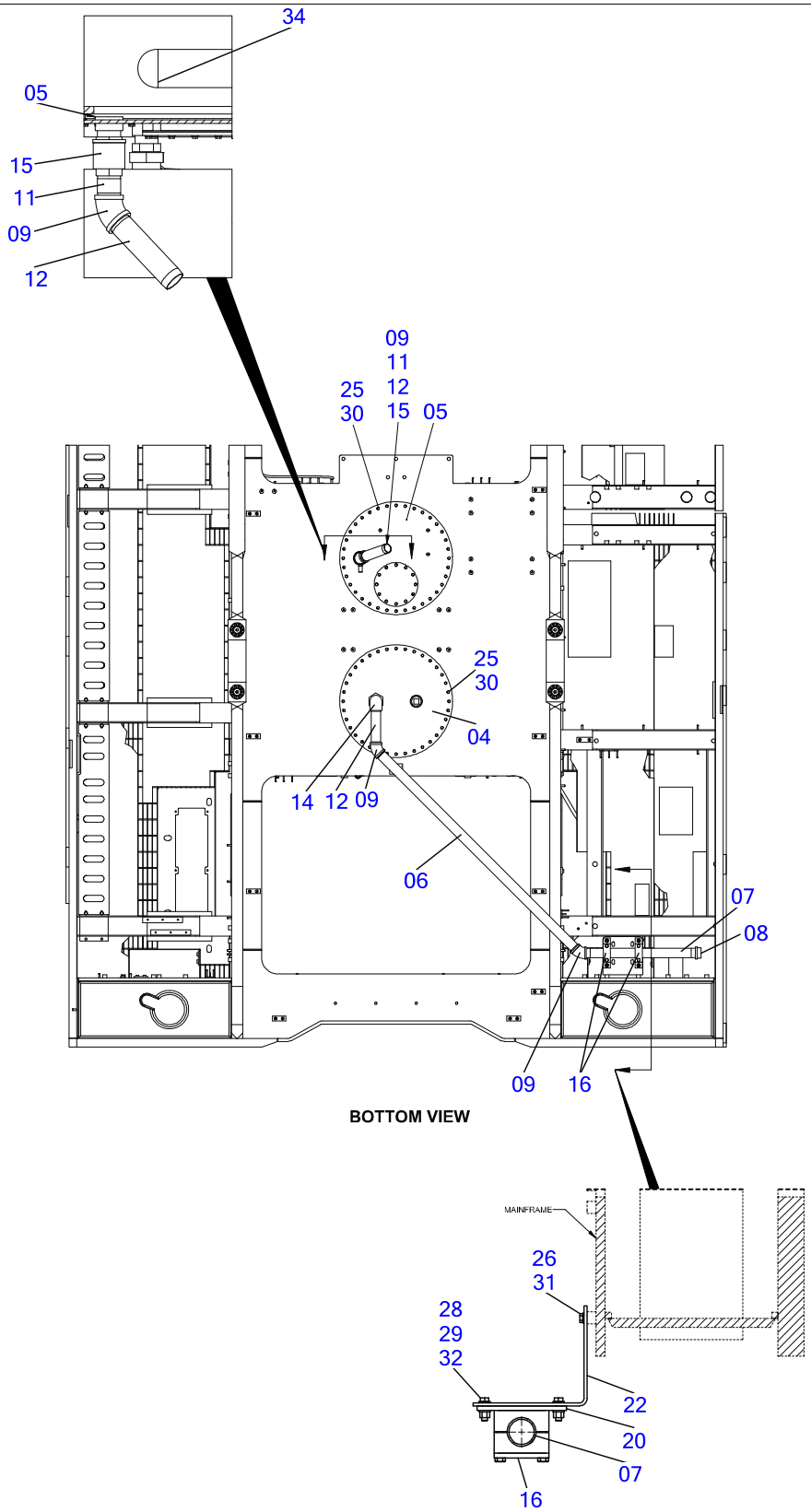
ELECTRICAL I/O MODULES, HYDRAULIC TANK

Item	Part No.	Description	Qty.	Unit
	R90228F1	ELECTRICAL I/O MODULES, HYDRAULIC TANK		
01	R116871D1	▪ BRACKET, I/O Mount	1	
02	R89856D1	▪ BACK PLATE, 1 I/O, Small	2	
IO_HTM1	R74817D1	▪ MODULE, I/O	1	
04	R89857D1	▪ HOOD, I/O	2	
05	0630M05025	▪ SCREW, Socket Head	6	
06	0825M10010	▪ BOLT, Hex Hd	8	
07	0825M10020	▪ BOLT, Hex Hd	4	
08	0825M12030	▪ BOLT, Hex Hd	8	
09	18Q363D1	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6	Pair
10	3612M010	▪ WASHER, Plain	4	
11	3612M012	▪ WASHER, Plain	16	
12	2104M012	▪ NUT, Hex	8	
13		NOT USED		
TCC_HT1CH1	R91485D1	▪ A-FRAME, I/O Module 1	1	
TCP_HTIO2	R90736D1	▪ CONNECTOR, 3 Pole	1	
TCP_HTIO1	R90736D1	▪ CONNECTOR, 3 Pole	1	
16	R91016D1	▪ DECALS, Hydraulic Assembly	1	
IO_HTM2	R74816D1	▪ MODULE, I/O	1	

INJECTION, ARCTIC WATER SYSTEM

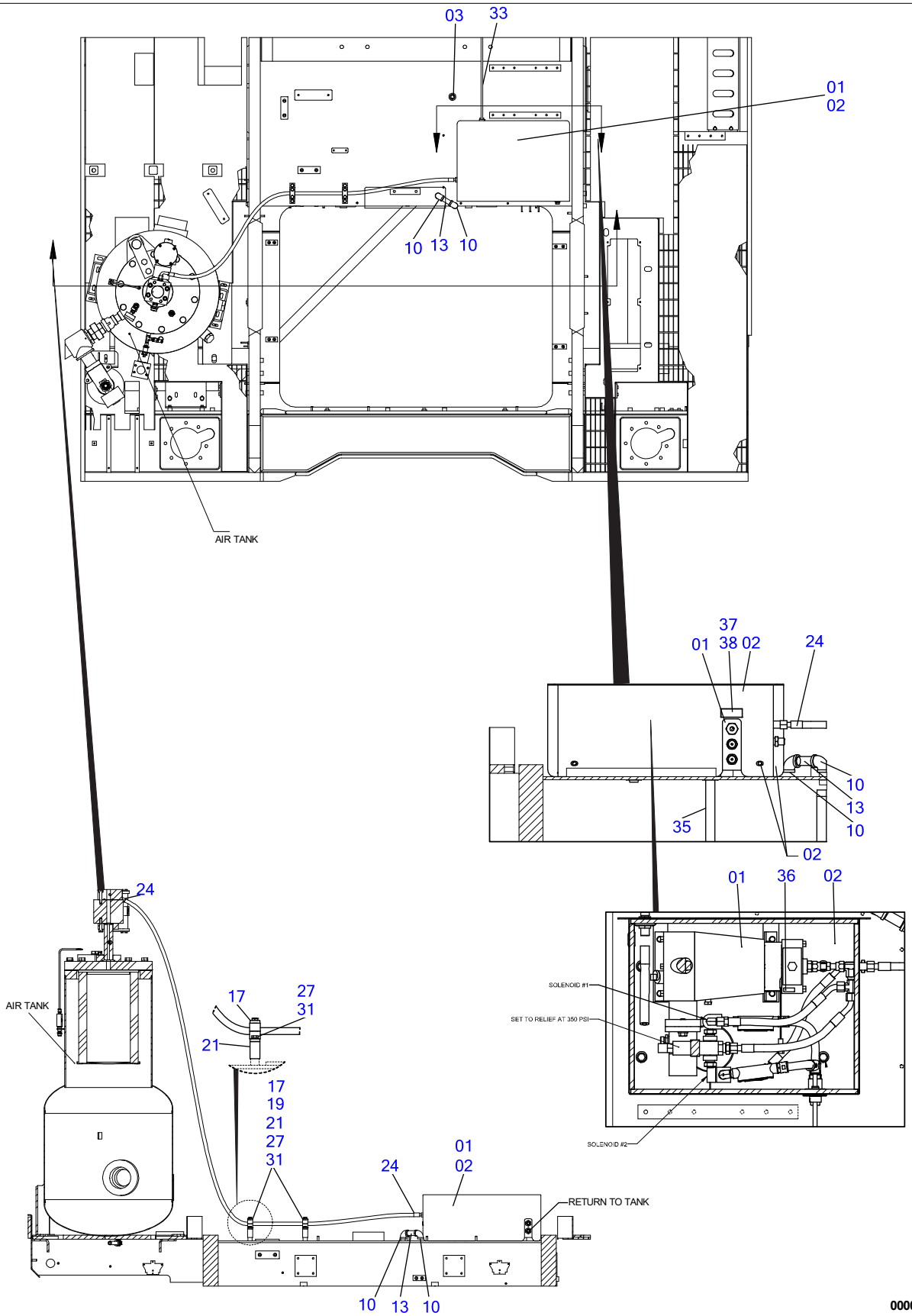


INJECTION, ARCTIC WATER SYSTEM



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INJECTION, ARCTIC WATER SYSTEM



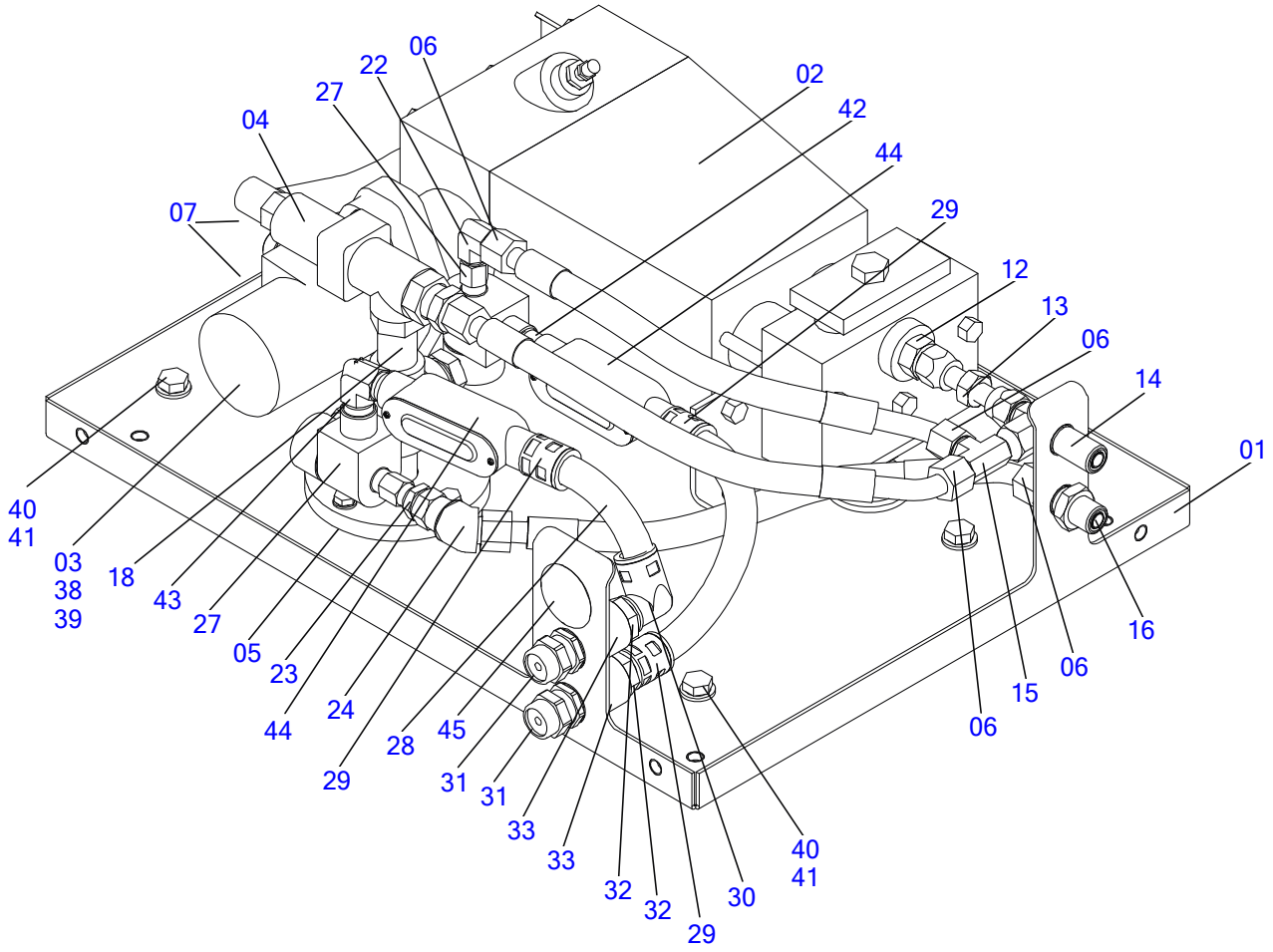
INJECTION, ARCTIC WATER SYSTEM

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INJECTION, ARCTIC WATER SYSTEM

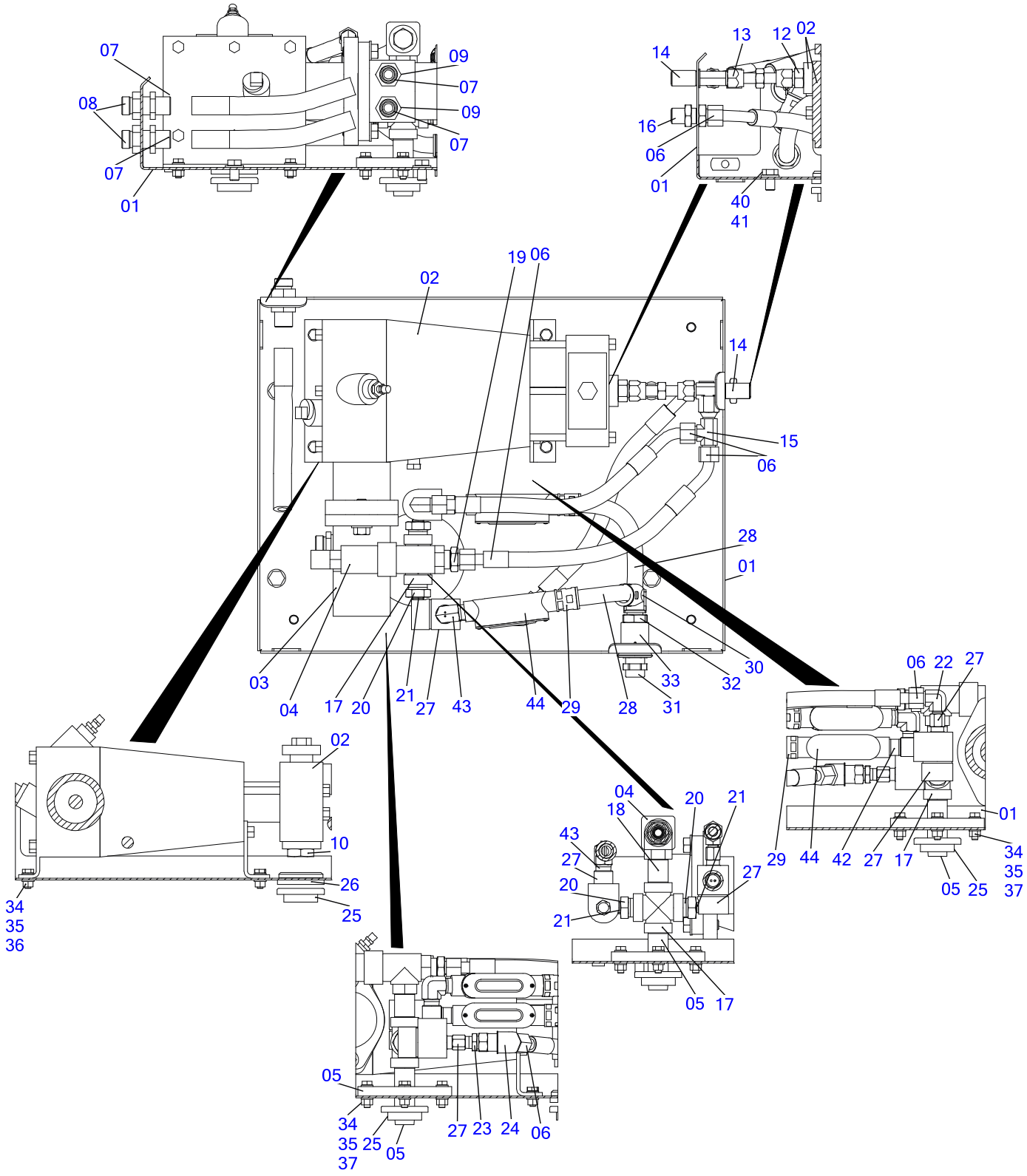
Item	Part No.	Description	Qty.	Page
	R102768F1	INJECTION, ARCTIC WATER SYSTEM		
01	R99182F1	· WATER INJECTION PIPING, Pump Enclosure	1	65
02	R117943F1	· INSTALLATION, Water Injection Cover	1	67
03	R89868D550	· DUST CONTROL WATER TANK LEVEL XDCR	1	
04	R99205F1	· COVER, Water Tank	1	68
05	R102766F1	· COVER, Water Tank	1	69
06	18P3237D33	· PIPE, Galvanized	1	
07	18P3237D2	· PIPE, Galvanized	1	
08	2403V009	· CAP, Pipe	1	
09	2414V009	· ELBOW, 45 Degree	3	
10	2414V020	· ELBOW, 90 Degree	2	
11	2419V258	· NIPPLE, Pipe	1	
12	2419V276	· NIPPLE, Pipe	2	
13	2419V140	· NIPPLE, Pipe	1	
14	2495V524	· UNION, Pipe	1	
15	R64005D1	· VALVE, Locking Ball	1	
16	R78952D22	· CLAMP	2	
17	R78953D15	· CLAMP	2	
18		NOT USED		
19	R88880D2	· BASE, Clamp	2	
20	R88880D4	· BASE, Clamp	2	
21	R99720D2	· SPACER, Hose Clamp	2	
22	R102793D1	· BRACKET, Water Pipe	1	
23		NOT USED		
24	R86868T12D345	· HOSE ASSEMBLY	1	
25	0825M08025	· BOLT, Hex Hd	72	
26	0825M10025	· BOLT, Hex Hd	2	
27	0825M10075	· BOLT, Hex Hd	4	
28	0825M12040	· BOLT, Hex Hd	4	
29	2104M012	· NUT, Hex	4	
30	3648M008	· WASHER, Hardened	72	
31	3648M010	· WASHER, Hardened	6	
32	3648M012	· WASHER, Hardened	8	
33	R115365F1	· ELECTRICAL INSTALLATION, Water Injection CWP	1	
34	18P3237D6	· PIPE, Galvanized	1	
35	R99164D1	· PIPE, Galvanized	1	
36	R117959D1	· DECALS, Arctic Water Injection	1	
37	R117948D1	· NAMEPLATE, Water Injection	1	
38	R102768Y38	· TAPE, Double Sided	1	

WATER INJECTION PIPING, PUMP ENCLOSURE



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WATER INJECTION PIPING, PUMP ENCLOSURE



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WATER INJECTION PIPING, PUMP ENCLOSURE

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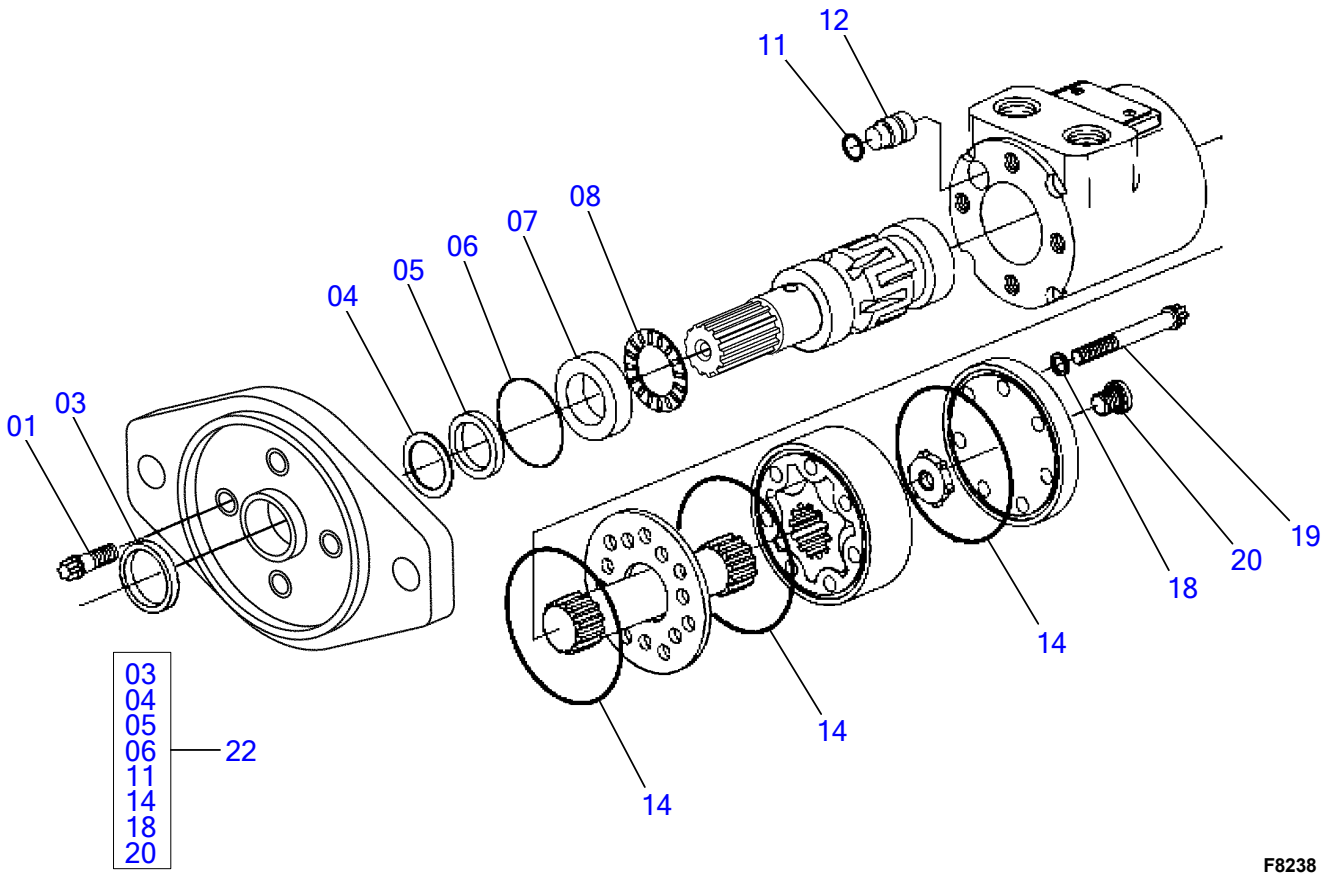
WATER INJECTION PIPING, PUMP ENCLOSURE

Item	Part No.	Description	Qty.	Page
	R99182F1	WATER INJECTION PIPING, PUMP ENCLOSURE		
01	R99181D1	· BASE, Water Injection	1	
02	R60204D1	· PUMP, 2 Piston Water	1	
03	R60205D1	· MOTOR, Hydraulic	1	66
04	R99227D1	· VALVE, Relief	1	
05	R99183D1	· DRAIN, Water	1	
06	R86867T12D37	· HOSE ASSEMBLY	3	
07	R89782T08M24D30	· HOSE ASSEMBLY	2	
08	R89775D3	· CONNECTOR	2	
09	R89777D7	· CONNECTOR	2	
10	44Z1714D5	· ADAPTER	1	
11		NOT USED		
12	44Z2574D16	· CONNECTOR, Reducing	1	
13	R60655D3	· UNION, Swivel	1	
14	44Z2586D3	· TEE, Bulkhead	1	
15	44Z2581D3	· TEE	1	
16	44Z2587D3	· UNION, Bulkhead	1	
17	2443V005	· 3/4 PIPE CROSS-150# MI	1	
18	2419V137	· NIPPLE, Standard	1	
19	44Z2597D11	· ADAPTER	1	
20	44Z826D8	· REDUCER, Pipe	2	
21	2419V035	· NIPPLE, Close	2	
22	44Z2599D21	· ELBOW, 90 Degree Adapter	1	
23	44Z2597D8	· ADAPTER	1	
24	R59492D3	· ELBOW, 45 Degree Swivel	1	
25	R99165D1	· GROMMET, Pipe	2	
26	R99200D1	· GROMMET, Sealing	1	
27	R99272D1	· DUST CONTROL WATER BYPASS SOLENOID 2	2	
28	R99277D1	· CONDUIT, Flexible	1	
29	R99278D1	· CONNECTOR, Straight	3	
30	R99279D1	· CONNECTOR, Elbow	1	
31	R91891D1	· GRIP, Cord	2	
32	44Z826D7	· REDUCER, Pipe	2	
33	R99303D1	· COUPLING	2	
34	3612M008	· WASHER, Plain	16	
35	2104M008	· NUT, Hex	8	
36	0825M08020	· BOLT, Hex Hd	4	
37	0825M08030	· BOLT, Hex Hd	4	
38	3631V009	· WASHER, Plain	2	
39	20Q260D328	· SCREW, Hex Head Cap	2	

WATER INJECTION PIPING, PUMP ENCLOSURE

Item	Part No.	Description	Qty.	Page
40	3612M012	▪ WASHER, Plain	4	
41	0825M12020	▪ BOLT, Hex Hd	4	
42	2419V103	▪ NIPPLE, Standard	1	
43	44Z1184D6	▪ ELBOW, 90 Degree	1	
44	R99922D1	▪ ACCESS PORT, Conduit	2	
45	R73880D4	▪ SEAL	1	

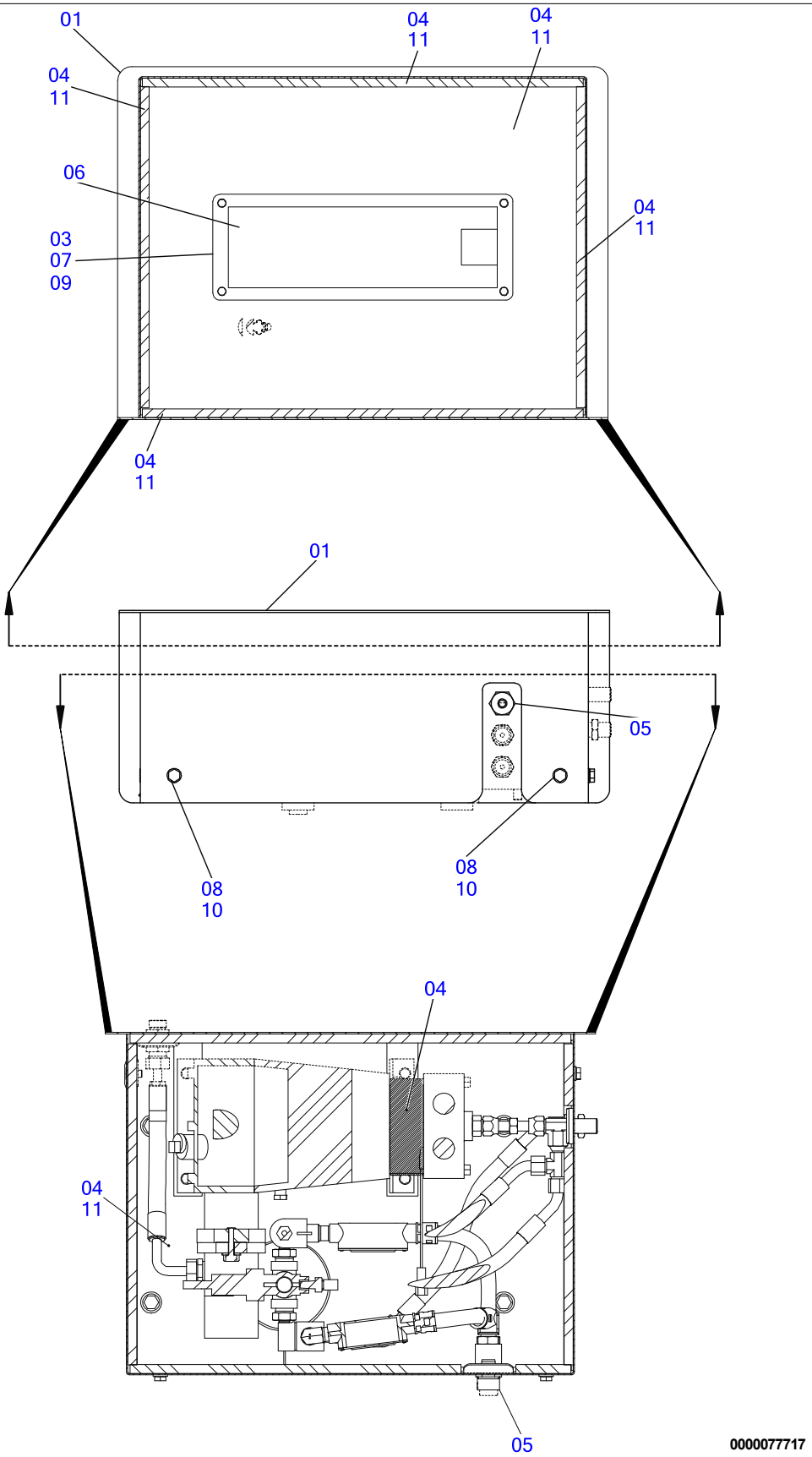
MOTOR, HYDRAULIC



MOTOR, HYDRAULIC

Item	Part No.	Description	Qty.
	R60205D1	MOTOR, HYDRAULIC	
01	NP1000Z10292	・SCREW	4
02		NOT USED	
03	NP1000Z10304	・SEAL, Exclusion	1
04	NP1000Z10294	・WASHER, Backup	1
05	NP1000Z10301	・SEAL, Pressure	1
06	NP1000Z10303	・SEAL	1
07	NP1000Z10299	・RACE, Thrust Bearing	1
08	NP1000Z10300	・BEARING, Thrust Needle	1
09		NOT USED	
10		NOT USED	
11	NP1000Z10296	・O-RING	1
12	NP1000Z10295	・PLUG	1
13		NOT USED	
14	1018Z9850	・SEAL	3
15 THRU 17		NOT USED	
18	NP1000Z10305	・SEAL, Washer	7
19	NP1000Z10293	・SCREW	7
20	1045Z2596	・O-RING	1
	NP1000Z10302	・・PLUG	1
22	NP1000Z10297	・KIT, Seal, Buna N	AR
	NP1000Z10298	・KIT, Seal, Composition	AR

INSTALLATION, WATER INJECTION COVER

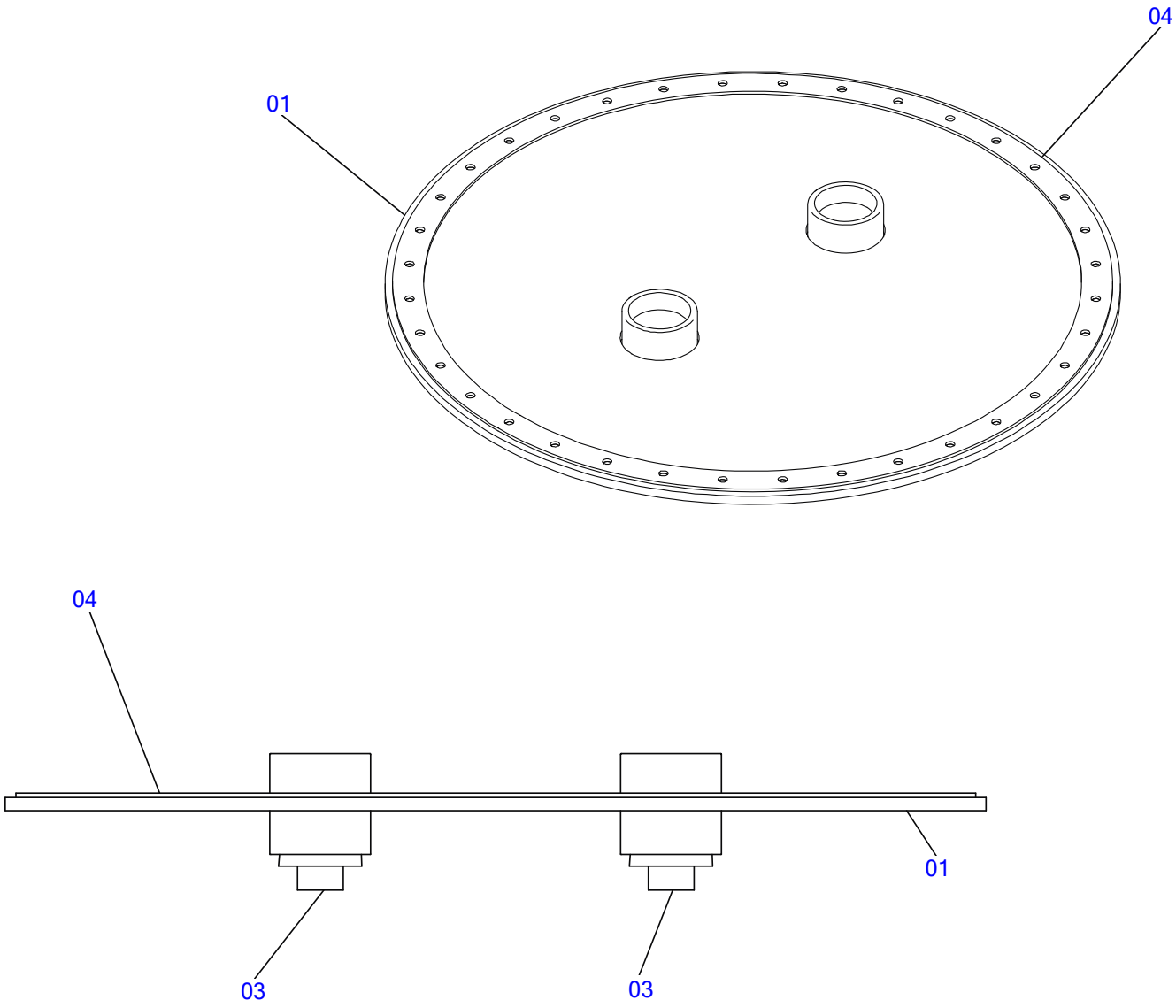


INSTALLATION, WATER INJECTION COVER

INSTALLATION, WATER INJECTION COVER

Item	Part No.	Description	Qty.	Unit
	R117943F1	INSTALLATION, WATER INJECTION COVER		
01	R117922D1	▪ COVER, Water Injection	1	
02	R99286D1	▪ FOAM, Insulation (Not Shown)	2	
03	R117942D1	▪ PLATE, Heat Pad	1	
04	R114053D2	▪ HEAT TRACE TAPE	1	
05	85Z24D4	▪ GRIP, Cord	1	
06	R101943D1	▪ COMPRESSOR AIR RESERVOIR HEATER #2	1	
07	0825M06012	▪ BOLT, Hex Hd	4	
08	0825M10016	▪ BOLT, Hex Hd	4	
09	3612M006	▪ WASHER, Plain	4	
10	3612M010	▪ WASHER, Plain	4	
11	R55110D1	▪ ADHESIVE	1	Quart (US)
12	R99318D1	▪ SEALANT, Silicone (Not Shown)	1	
13	R88249D1	▪ TIE, Wire (Not Shown)	4	

COVER, WATER TANK

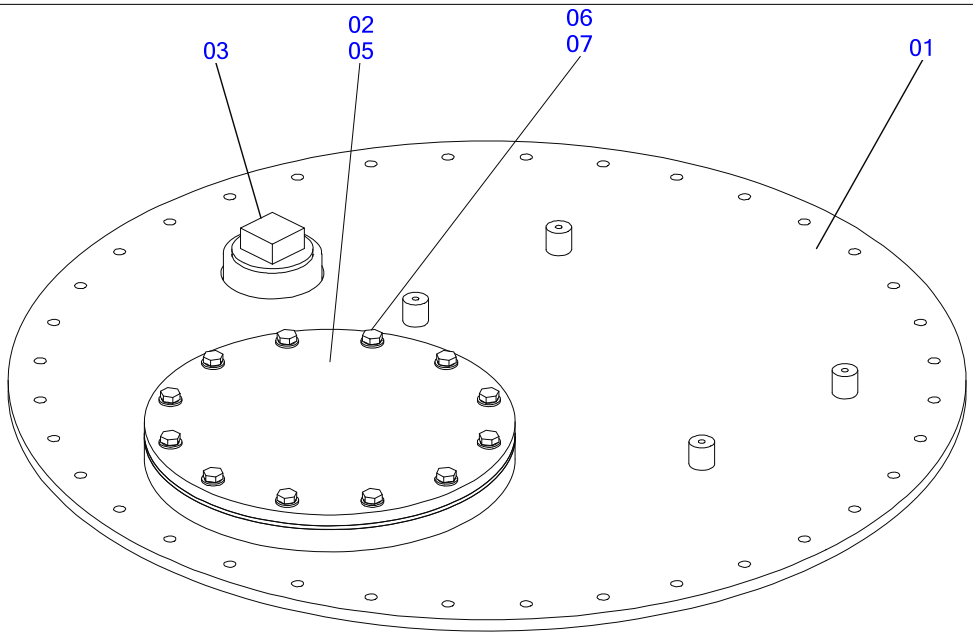


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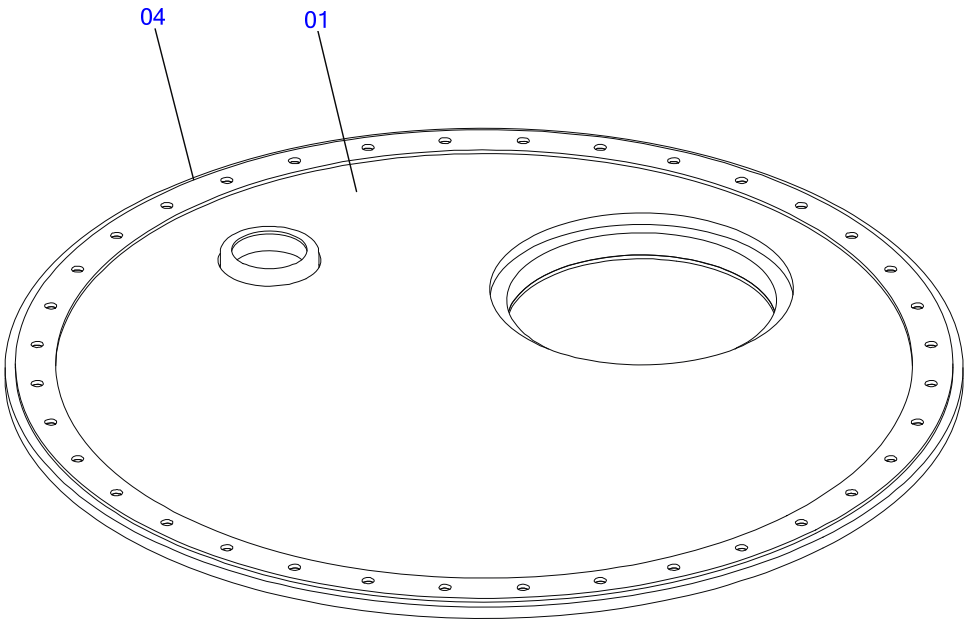
COVER, WATER TANK

Item	Part No.	Description	Qty.
	R99205F1	COVER, Water Tank	
01	R99206D1	▪ COVER, Water Tank	1
02		NOT USED	
03	2446V009	▪ PLUG, Pipe	2
04	R99207D1	▪ GASKET, Tank	1

COVER, WATER TANK



TOP ISOMETRIC VIEW



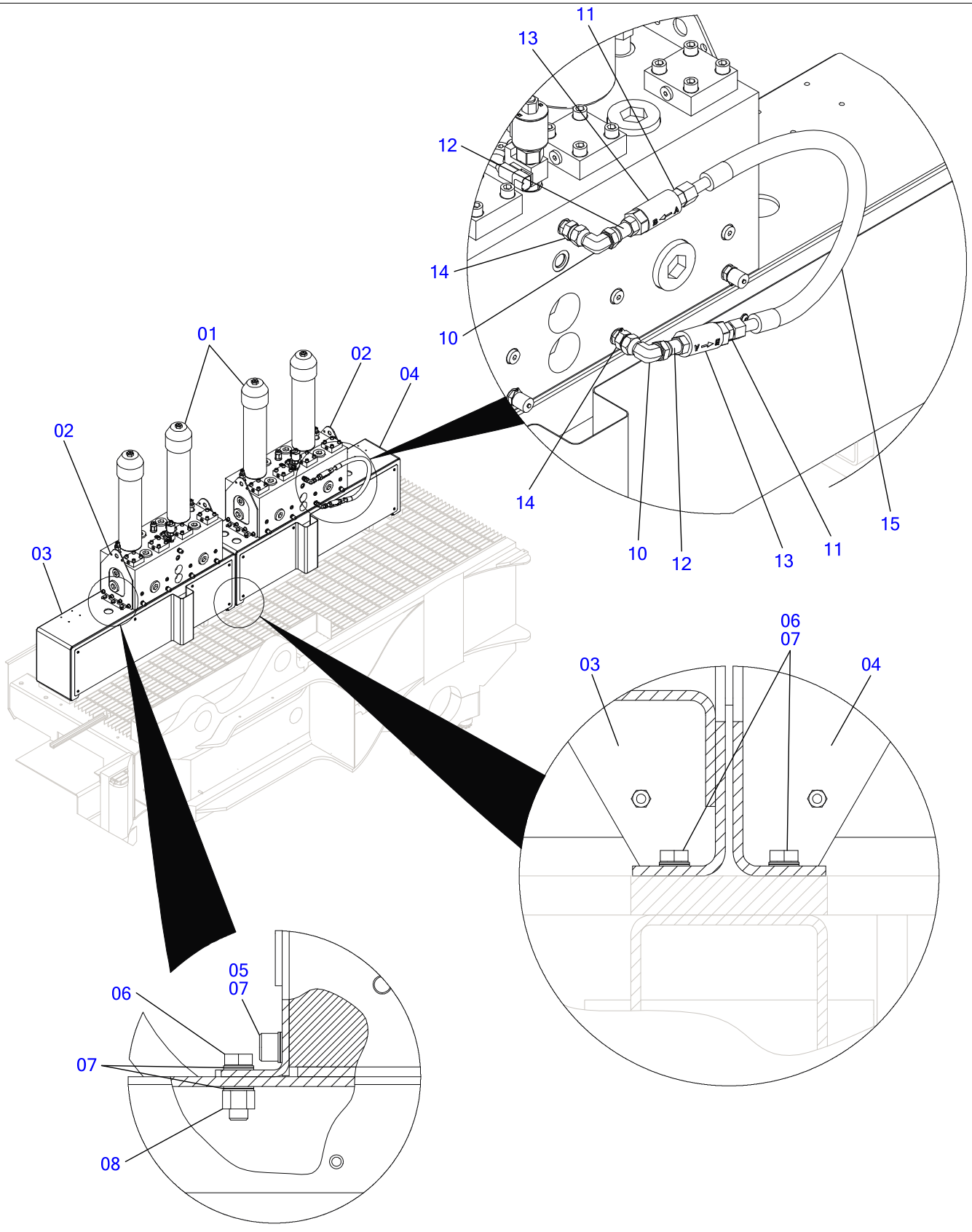
BOTTOM ISOMETRIC VIEW

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COVER, WATER TANK

Item	Part No.	Description	Qty.
	R102766F1	COVER, WATER TANK	
01	R102767D1	▪ COVER, Water Tank	1
02	R105550D1	▪ COVER, Heat Exchanger Port	1
03	2446V009	▪ PLUG, Pipe	1
04	R99207D1	▪ GASKET, Tank	1
05	R105550D2	▪ GASKET, Heat Exchanger	1
06	0825M08030	▪ BOLT, Hex Hd	12
07	3648M008	▪ WASHER, Hardened	12

HYDRAULIC INSTALLATION, FILTER / DIVERTER



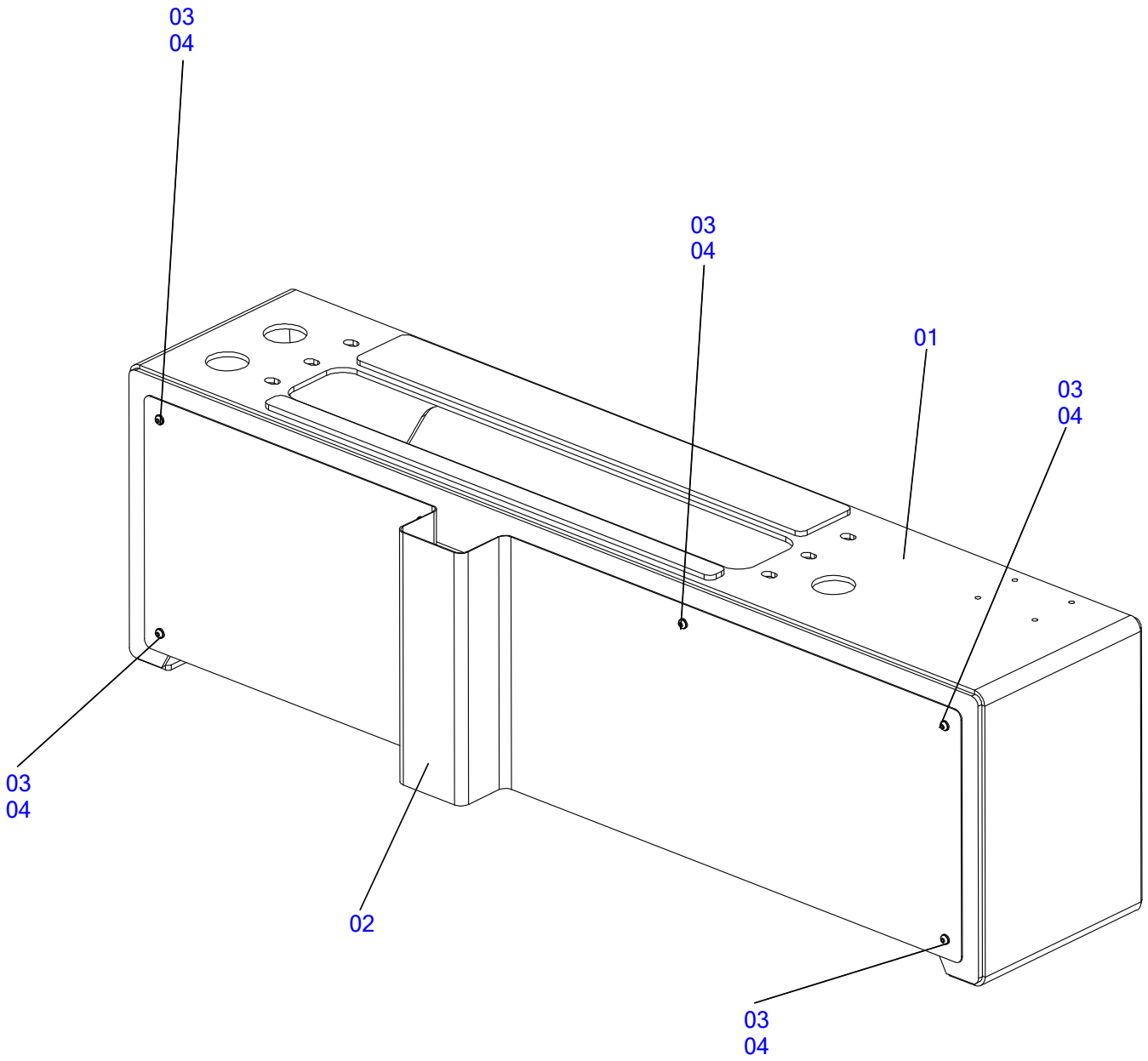
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HYDRAULIC INSTALLATION, FILTER / DIVERTER

HYDRAULIC INSTALLATION, FILTER / DIVERTER

Item	Part No.	Description	Qty.	Unit	Page
	R9012804F1	HYDRAULIC INSTALLATION, FILTER / DIVERTER	1		
01	R90061D1	· MANIFOLD ASSEMBLY, Filter Diverter	2	Each	
02	R99509D1	· BRACKET, Mounting	4	Each	
03	R101951F1	· STAND, Filter Diverter	1	Each	71
04	R101950F1	· STAND, Filter Diverter	1	Each	72
05	0630M12025	· SCREW, Socket Head	16	Each	
06	0825M12035	· BOLT, Hex Head	28	Each	
07	R82264D21	· WASHER, Nord-Lock	56	Each	
08	2104M012	· NUT, Hex	12	Each	
09	21Z772D4	· LOCTITE 242 (Blue) (Not Shown)	1	Each	
10	44Z2582D3	· ADAPTER	2	Each	
11	44Z2574D3	· CONNECTOR	2	Each	
12	R59736D3	· FITTING	2	Each	
13	R9003266D1	· VALVE, Check	2	Each	
14	R87378D11	· ADAPTER, Straight	2	Each	
15	R9003270T08D27	· HOSE ASSEMBLY, High Pressure	1	Each	

STAND, FILTER DIVERTER

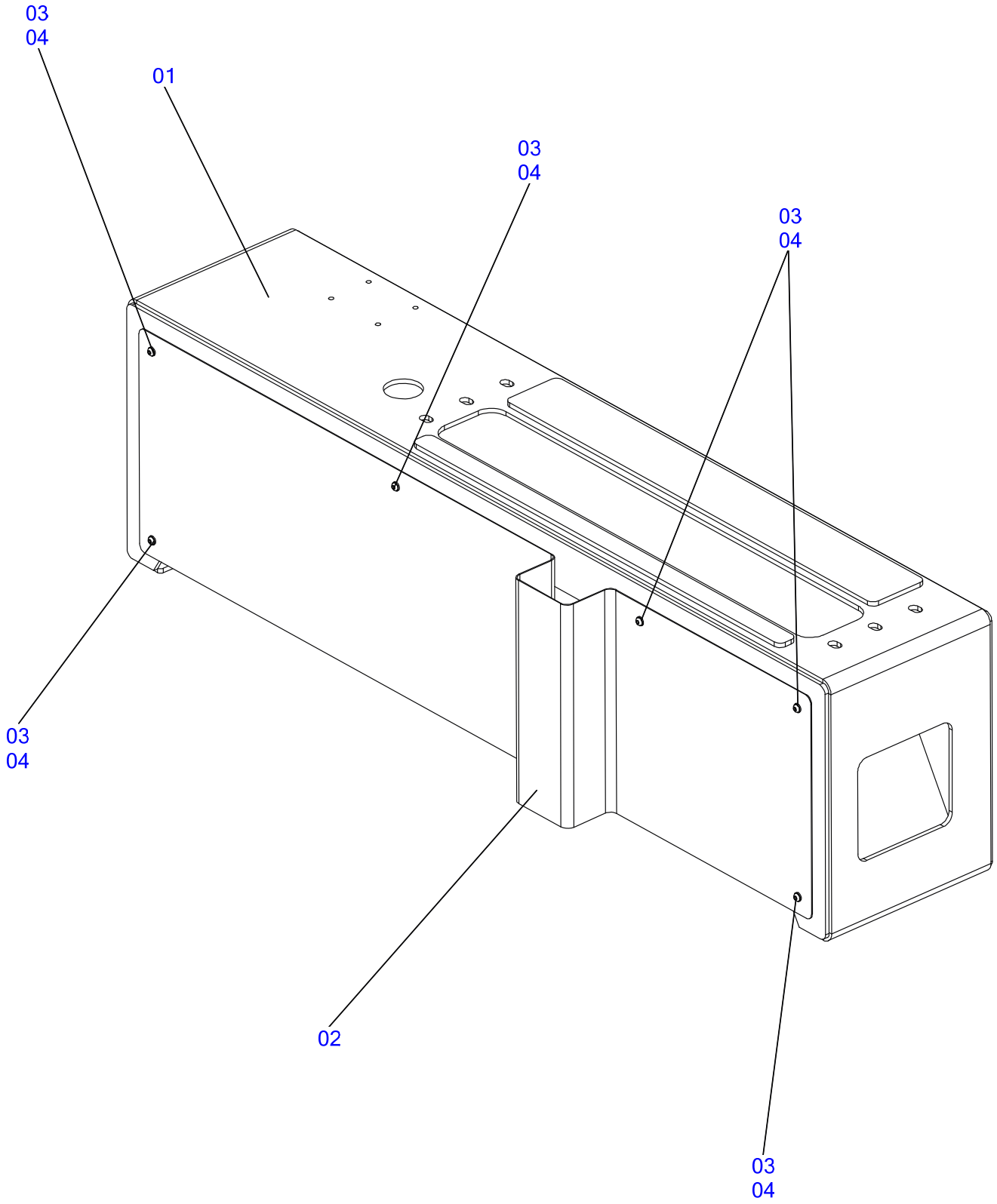


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STAND, FILTER DIVERTER

Item	Part No.	Description	Qty.
	R101951F1	STAND, FILTER DIVERTER	
01	R101713D1	▪ STAND, Filter Diverter Weldment	1
02	R101952D1	▪ COVER PLATE, Diverter Stand	1
03	0836M06020	▪ SCREW	6
04	3612M006	▪ WASHER, Plain	6

STAND, FILTER DIVERTER



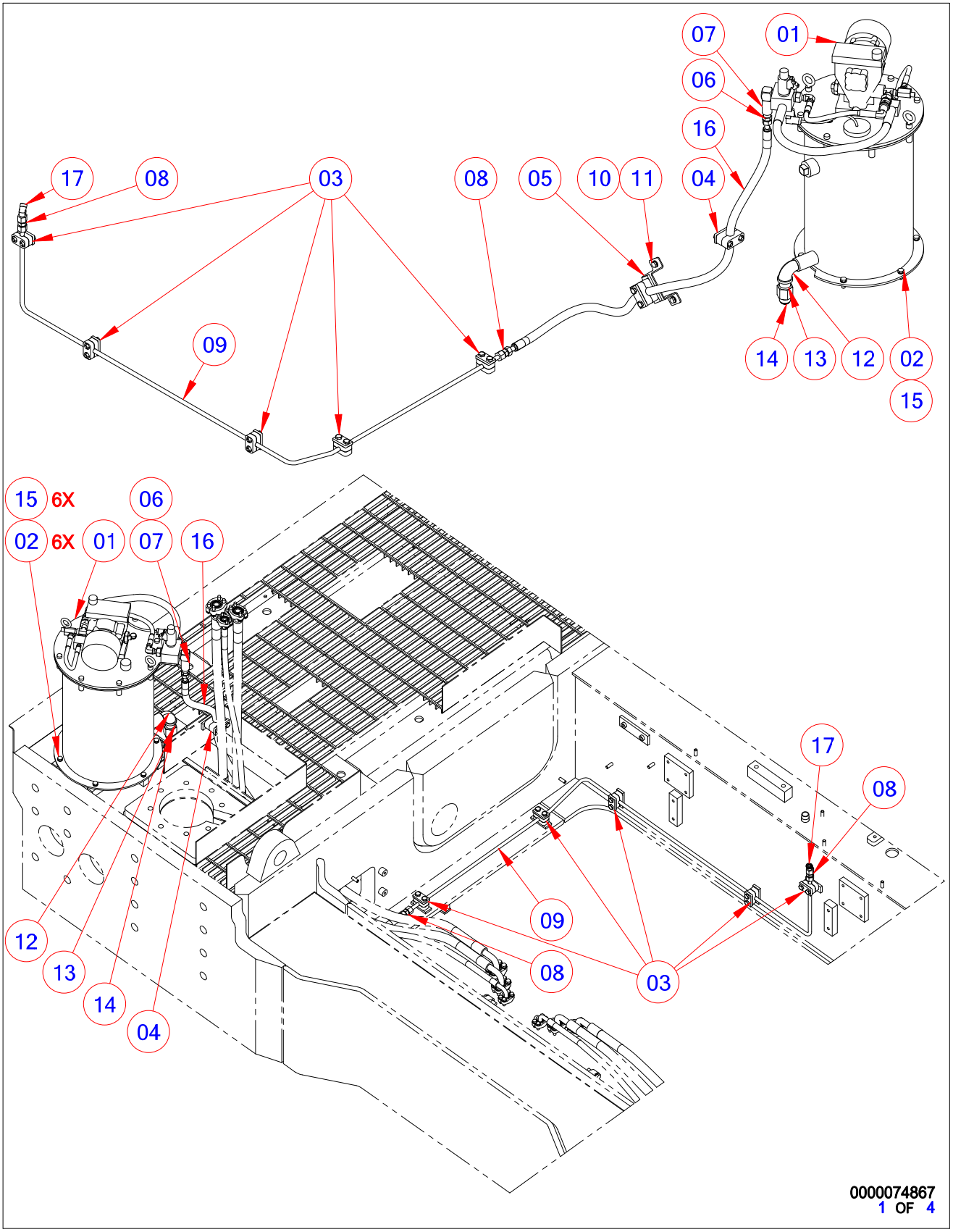
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STAND, FILTER DIVERTER

STAND, FILTER DIVERTER

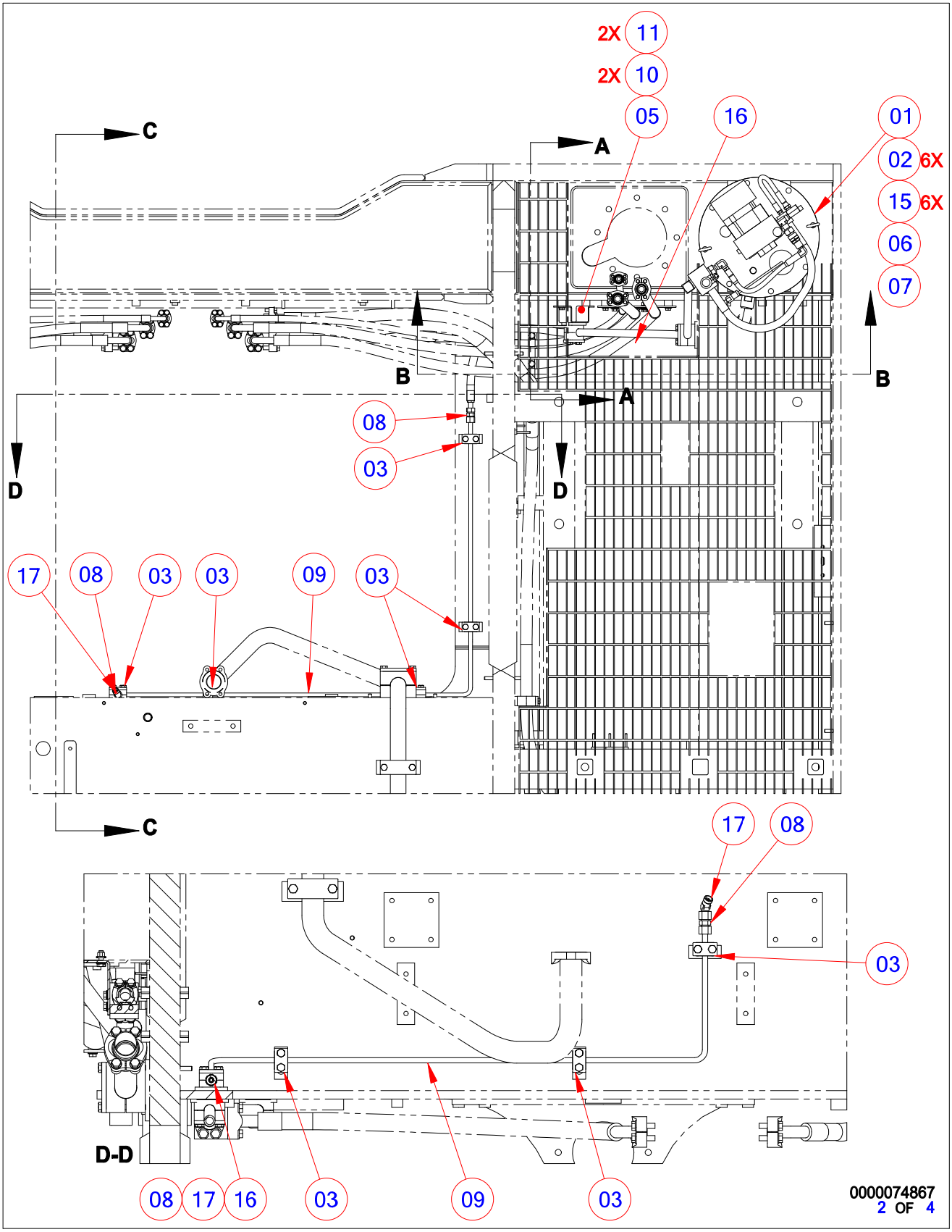
Item	Part No.	Description	Qty.
	R101950F1	STAND, FILTER DIVERTER	
01	R101714D1	▪ STAND, Filter Diverter Weldment	1
02	R101949D1	▪ COVER PLATE, Diverter Stand	1
03	0836M06020	▪ SCREW	6
04	3612M006	▪ WASHER, Plain	6

INSTALLATION, CHASSIS OGL



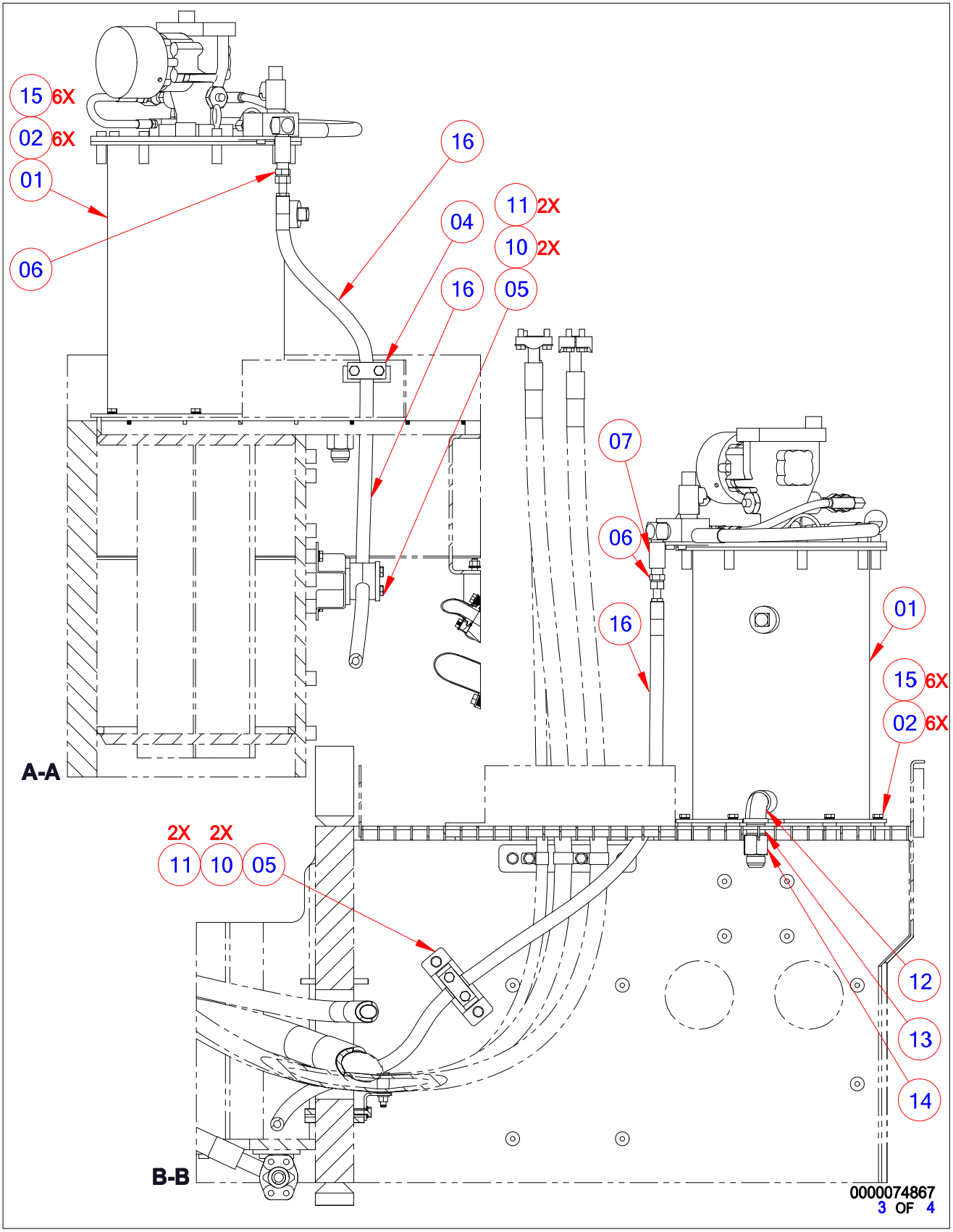
INSTL,OGL,CHASSIS

INSTALLATION, CHASSIS OGL



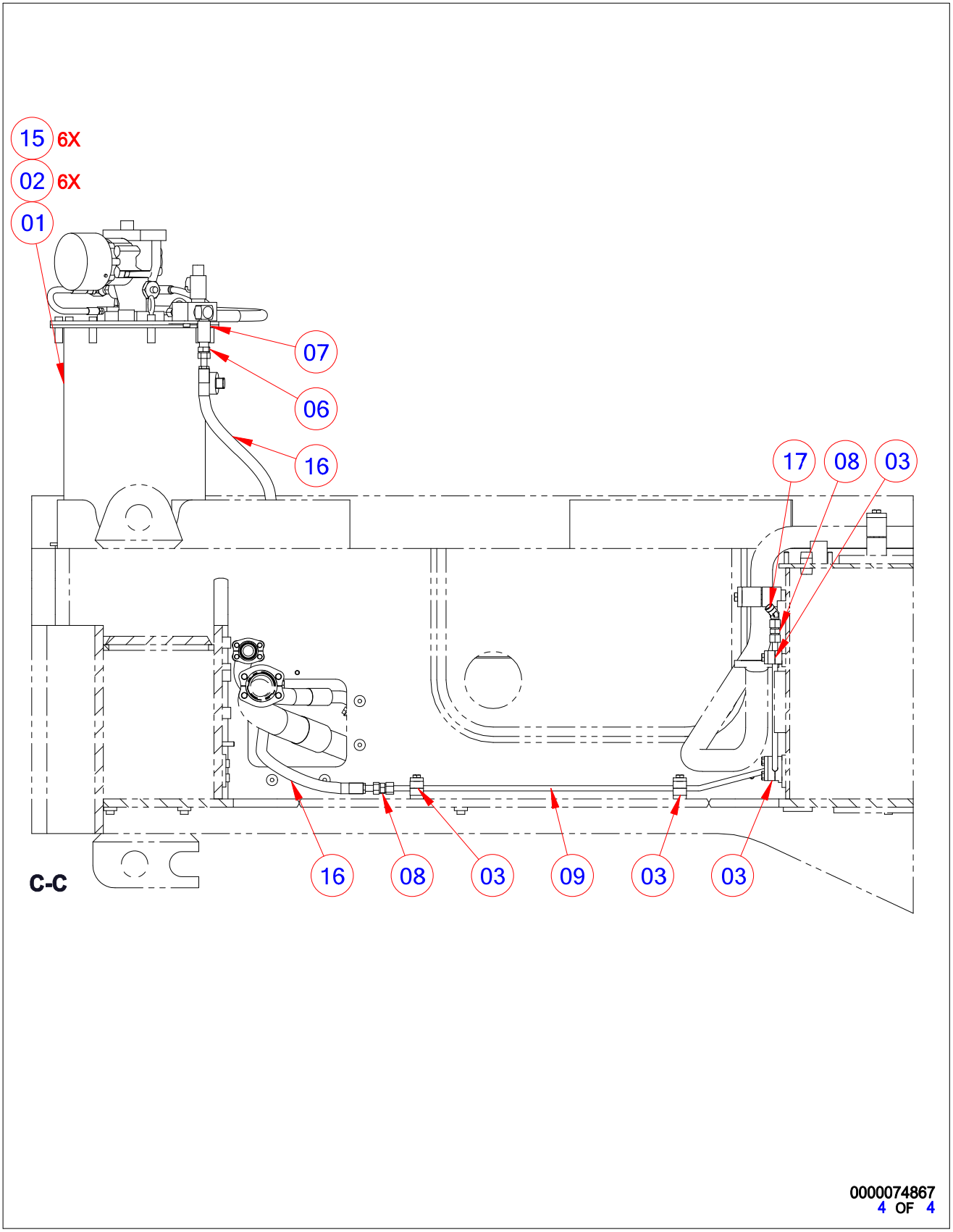
INSTL,OGL,CHASSIS

INSTALLATION, CHASSIS OGL



INSTL,OGL,CHASSIS

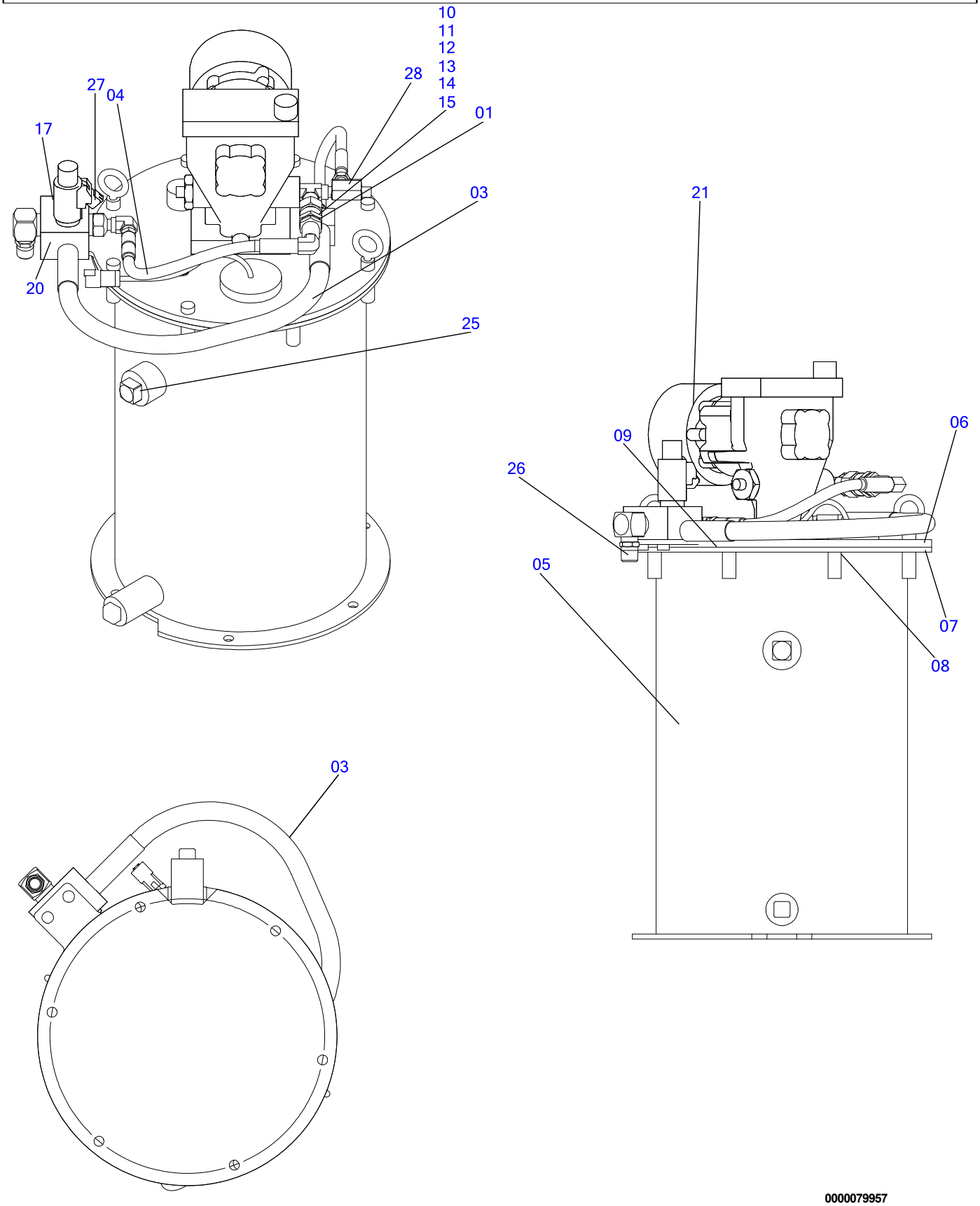
INSTALLATION, CHASSIS OGL



INSTALLATION, CHASSIS OGL

Item	Part No.	Description	Qty.	Page
	R103498F1	INSTALLATION, CHASSIS OGL		
01	R90982D1	▪ TANK AND PUMP, Lube	1	74
02	0825M10025	▪ BOLT, Hex Hd	6	
03	R78952D5	▪ CLAMP	5	
04	R78953D17	▪ CLAMP	1	
05	R108217D1	▪ WELDMENT, Hose Clamp	1	
	R78174D17	▪ ▪ CLAMP	1	
06	R89779D7	▪ CONNECTOR	1	
07	2435V004	▪ COUPLING, Pipe	1	
08	R89770D2	▪ CONNECTOR, Union	2	
09	R99792D1	▪ TUBE ASSEMBLY	1	
10	3612M010	▪ WASHER, Plain	2	
11	0825M10020	▪ BOLT, Hex Hd	2	
12	2416V021	▪ ELBOW, 90 Degree Street	1	
13	2419V166	▪ NIPPLE, Pipe	1	
14	44Z597D14	▪ CONNECTOR, Pipe	1	
15	R82264D6	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6	
16	R89780T08M20D152	▪ HOSE ASSEMBLY	1	
17	R89794D2	▪ CONNECTOR	1	

TANK AND PUMP, LUBE

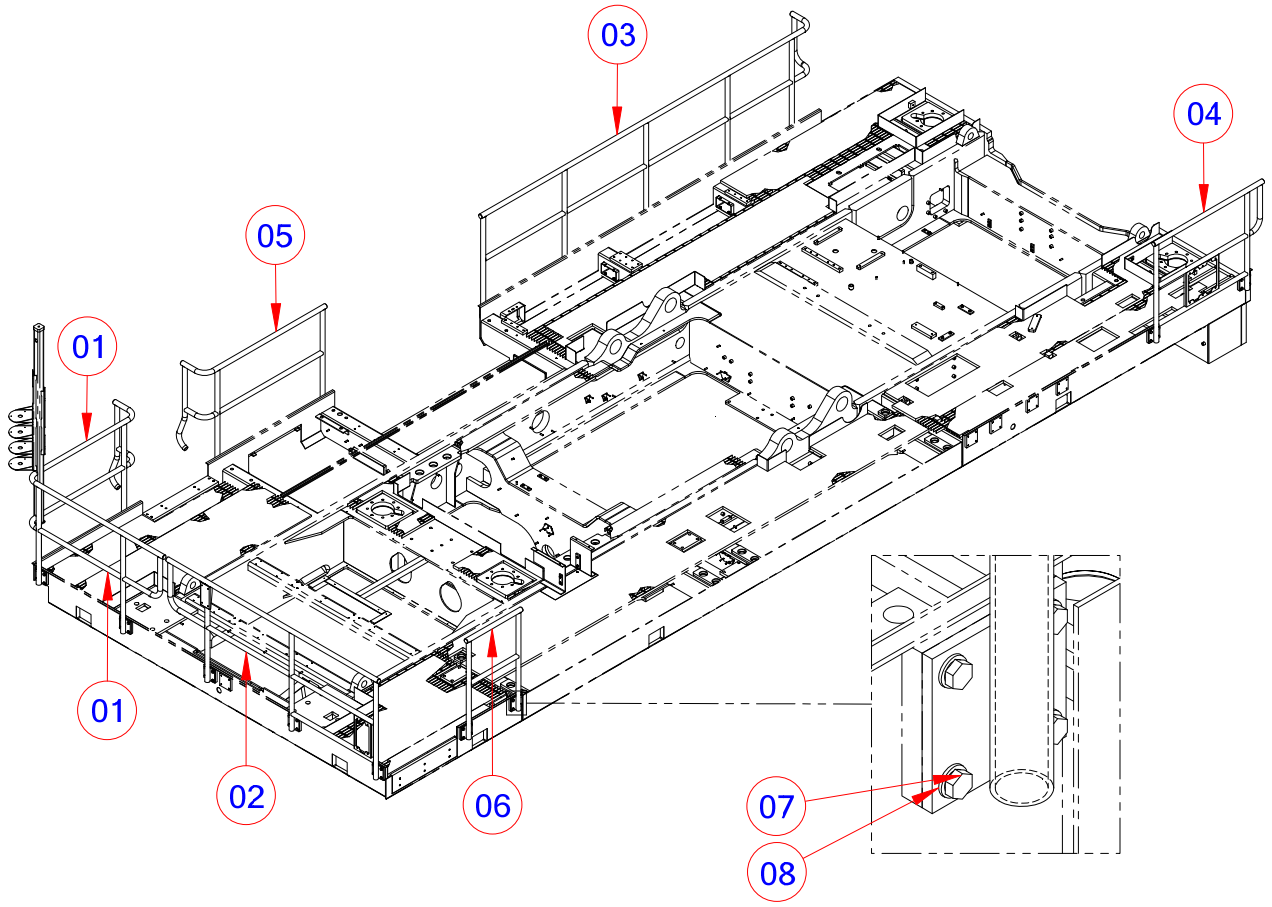


TANK AND PUMP, LUBE

TANK AND PUMP, LUBE

Item	Part No.	Description	Qty.
	R90982D1	TANK AND PUMP, LUBE	
01	R9005694D1	· ASSEMBLY, Outlet	1
02	R9005694D2	· ASSEMBLY, Follower	1
03	R9005694D3	· HOSE, Safety Unloader to Vent Valve	1
04	R9005694D4	· HOSE, Outlet Check Valve to Vent Valve	1
05	R9005694D5	· ASSEMBLY TANK	1
06	R9005694D6	· TANK COVER	1
07	R9005694D7	· GASKET, Tank Cover	1
08	R9005694D8	· GASKET, Vent Tube	1
09	R9005694D9	· GASKET, Pump	1
10	R9005694D10	· GASKET, Check	1
11	R9005694D11	· GASKET, Follower Assembly	1
12	R9005694D12	· BUSHING, Outlet Check	1
13	R9005694D13	· ASSEMBLY, Disk Check	1
14	R9005694D14	· SEAT, Check Ball	1
15	R9005694D15	· CHECK BALL, Steel	1
16	R9005694D16	· SWITCH, Roller	1
		NOTE: Item 17 is an assembly of Items 18 thru 20 pre-assembled.	
17	R9005695D1	· VALVE, Vent	1
18	R9005697D1	· VALVE, Cartridge	1
19	R9005697D2	· COIL, Solenoid 24V	1
20	R9005697D3	· BODY VALVE, Vent	1
		NOTE: Item 21 is an assembly of Items 22 thru 30 preassembled.	
21	R9005840D1	· PUMP, Electric	1
22	R9005841D1	· REPAIR KIT, Pump Soft Parts	1
23	R9005841D2	· REPAIR KIT, Upper Bushing and Plunger	1
24	R9005841D3	· PUMP MOTOR, 24VDC	1
25	R9005841D4	· ROD, Link	1
26	R9005841D5	· TUBE, Recipricating	1
27	R9005841D6	· HOUSING, Tube	1
28	R9005841D7	· UNLOADER, Safety	1
29	R9005841D8	· COUPLER, Motor	1
30	R9005841D9	· SEAT, Check	1

INSTALLATION, CHASSIS AUTOMATION HANDRAILS



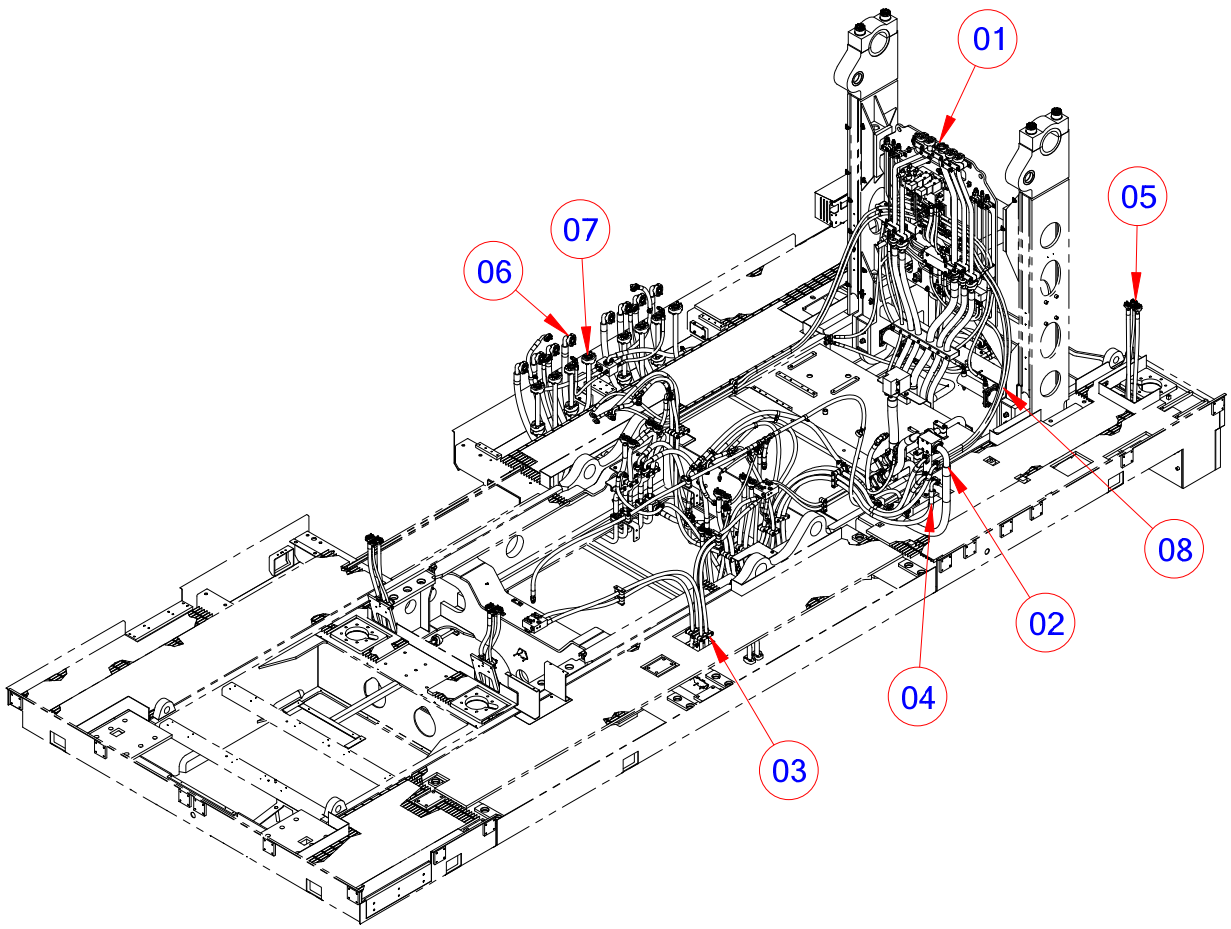
R109679F2
1 OF 1

INSTALL,HANDRAILS,CHASSIS,AUTOMATION

INSTALLATION, CHASSIS AUTOMATION HANDRAILS

Item	Part No.	Description	Qty.
	R109679F2	INSTALLATION, CHASSIS AUTOMATION HANDRAILS	
01	R107106D1	· HANDRAIL, Frame, GPS	1
02	R107498D1	· HANDRAIL, Frame	1
03	R98851D1	· HANDRAIL, Frame	1
04	R98852D1	· HANDRAIL, Frame	1
05	R98854D1	· HANDRAIL, Frame	1
06	R98857D1	· HANDRAIL, Frame	1
07	0825M12030	· BOLT, Hex Hd	72
08	3612M012	· WASHER, Plain	72
09	21Z772D4	· COMPOUND, Sealing and Locking (Not Shown)	1

HYDRAULIC ROUTINGS, CHASSIS



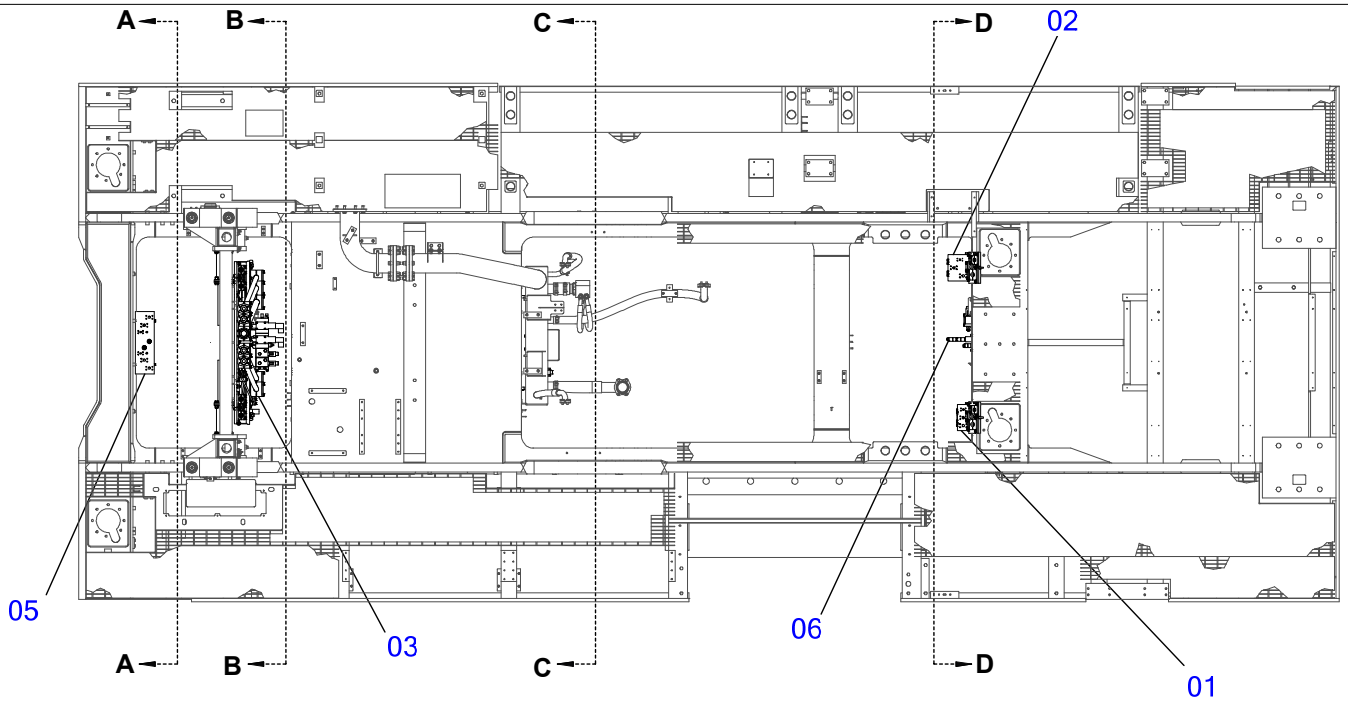
R107423F1
1 OF 1

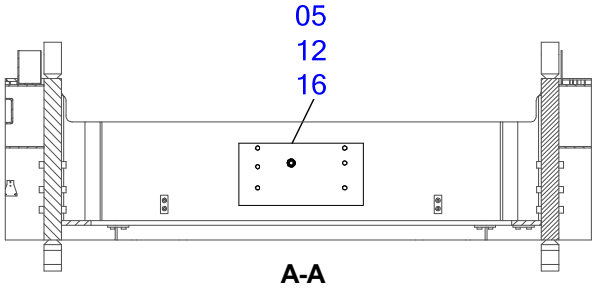
GROUP LEVEL,HYD ROUTINGS,CHASSIS

HYDRAULIC ROUTINGS, CHASSIS

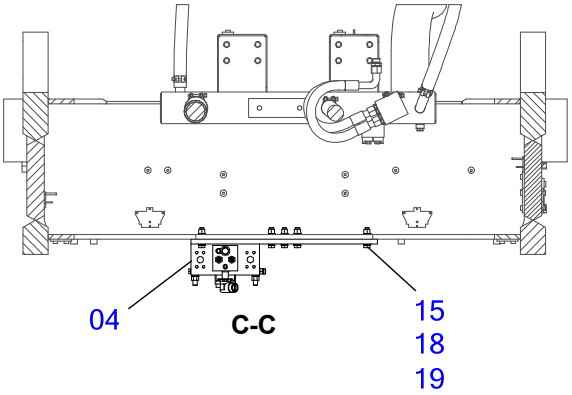
Item	Part No.	Description	Qty.	Page
	R107423F1	HYDRAULIC ROUTINGS, CHASSIS		
01	R107424F1	▪ INSTALLATION, Hydraulic Valves & Manifolds	1	77
02	R107425F1	▪ HYDRAULIC ROUTINGS, Return/Drain	1	83
03	R106614F1	▪ INSTALLATION, Hydraulic Routing Coolers	1	85
04	R107426F1	▪ HYDRAULIC ROUTING, Aux Pump	1	86
05	R107427F1	▪ HYDRAULIC ROUTING, Leveling Jacks	1	87
06	R101665F1	▪ HYDRAULIC ROUTING, Hydrostatic Diverter Input	1	91
07	R101666F1	▪ HYDRAULIC ROUTING, Hydrostatic Diverter Output	1	97
08	R101667F1	▪ HYDRAULIC ROUTING, Mast Valve Assembly	1	103

HYDRAULIC INSTALLATION, VALVES & MANIFOLDS - LEVELING JACKS

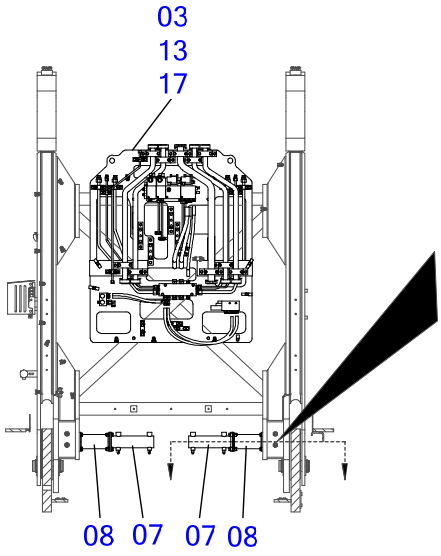




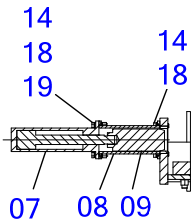
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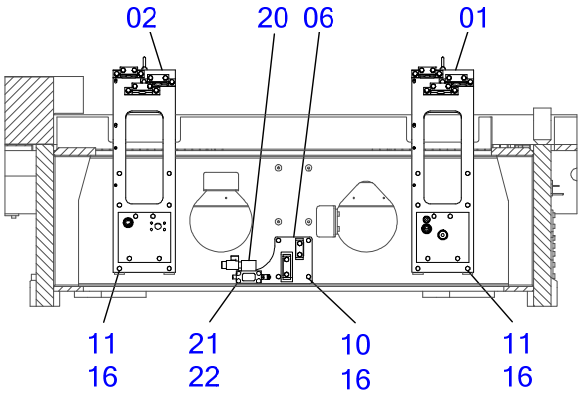


C-C



B-B





D-D

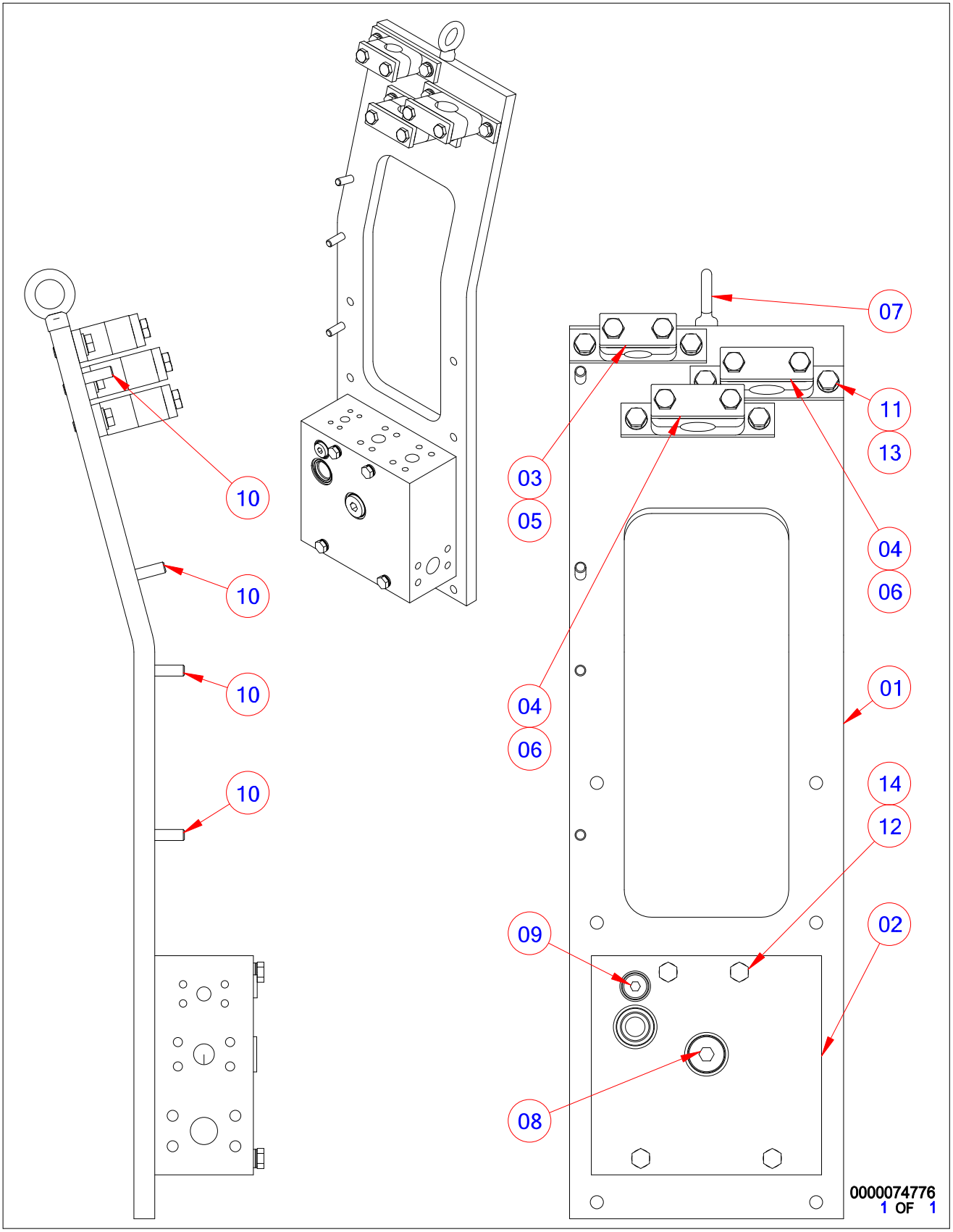
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TOP VIEW

HYDRAULIC INSTALLATION, VALVES & MANIFOLDS - LEVELING JACKS

Item	Part No.	Description	Qty.	Page
	R107424F1	HYDRAULIC INSTALLATION, VALVES & MANIFOLDS - LEVELING JACKS		
01	R101895F1	▪ MANIFOLD ASSEMBLY, Leveling Jack	1	78
02	R101887F1	▪ MANIFOLD ASSEMBLY, Leveling Jack	1	79
03	R101718F1	▪ VALVE ASSEMBLY, Mast Position	1	80
04	R102613F2	▪ VALVE ASSEMBLY, Relief	1	82
05	R101716D1	▪ MANIFOLD, Hydraulic Rear Jacks	1	
06	R101824F1	▪ CLAMP	1	
07	R90045D1	▪ CYLINDER, Mast Lock	2	
07A	R90577D1	▪ ▪ SWITCH, Proximity	2	
08	R90047D2	▪ MACHINING, Mast Lock Cylinder Mount	2	
08A	R90047D1	▪ ▪ WELDMENT, Mast Lock Cylinder Mount	1	
09	R90048D1	▪ PIN, Locking	2	
10	0825M10025	▪ BOLT, Hex Hd	4	
11	0825M10040	▪ BOLT, Hex Hd	12	
12	0825M10170	▪ BOLT, Hex Hd	6	
13	0825M12040	▪ BOLT, Hex Hd	6	
14	0825M16050	▪ BOLT, Hex Hd	16	
15	0825M16070	▪ BOLT, Hex Hd	5	
16	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	22	
17	R82264D21	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6	
18	R82264D10	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	34	
19	2104M016	▪ NUT, Hex	13	
20	R115879D1	▪ VALVE ASSEMBLY, Propel Brake Release	1	
21	0825M10080	▪ BOLT, Hex Hd	4	
22	20Z2139D3	▪ NUT, Lock	4	

MANIFOLD ASSEMBLY, LEVELING JACK

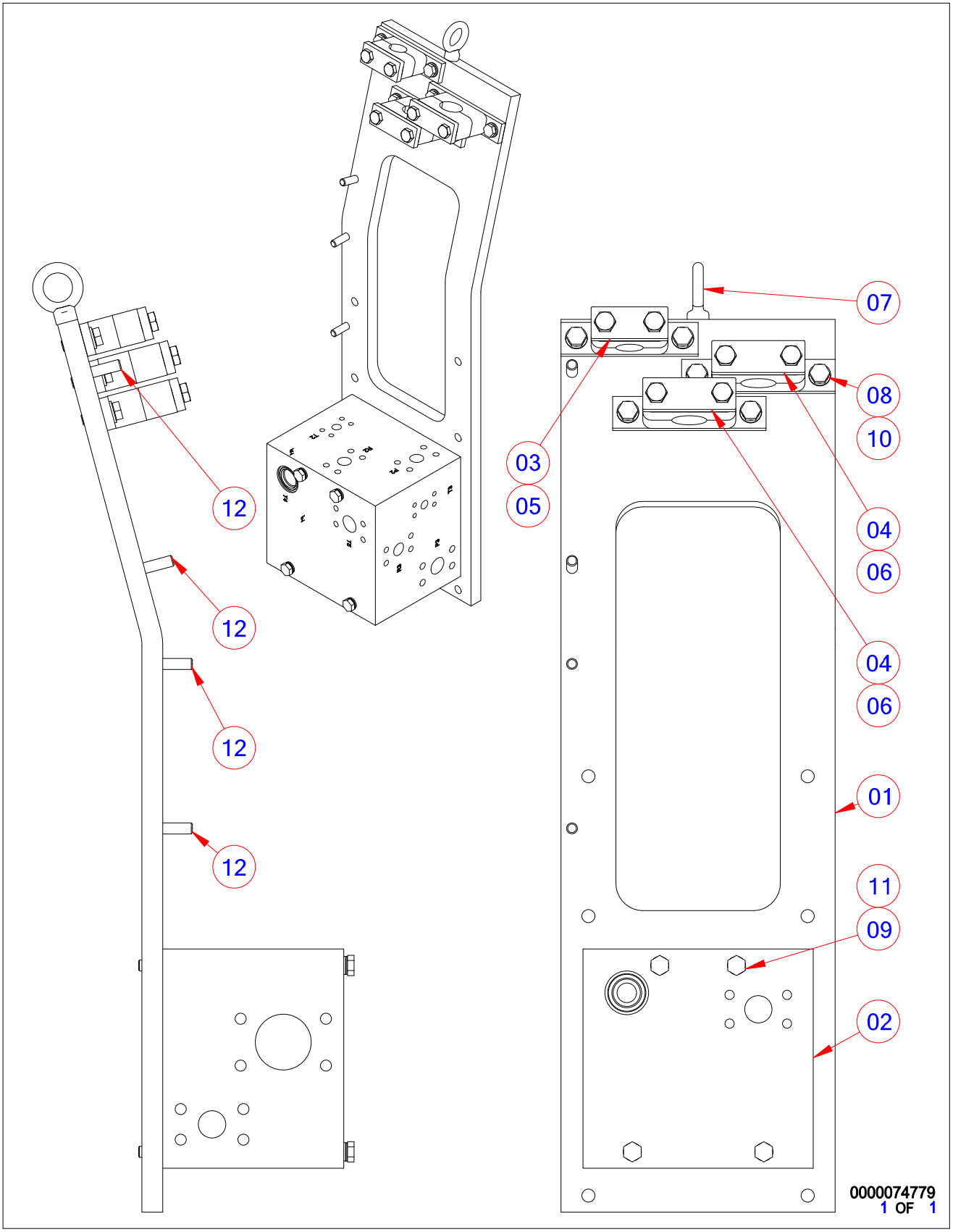


MANIFOLD ASSEMBLY,LEVELING JACK

MANIFOLD ASSEMBLY, LEVELING JACK

Item	Part No.	Description	Qty.
	R101895F1	MANIFOLD ASSEMBLY, LEVELING JACK	
01	R101894D1	▪ MOUNTING PLATE, Manifold	1
02	R101893D1	▪ MANIFOLD, Hydraulic	1
03	R78953D18	▪ CLAMP	1
04	R78953D24	▪ CLAMP	2
05	R88880D2	▪ BASE, Clamp	1
06	R88880D3	▪ BASE, Clamp	2
07	R98953D1	▪ BOLT, Eye	1
08	R89216D9	▪ PLUG	1
09	R89216D5	▪ PLUG	1
10	R92375D8	▪ STUD, Weld	4
11	0825M10030	▪ BOLT, Hex Hd	6
12	0825M10110	▪ BOLT, Hex Hd	4
13	3612M010	▪ WASHER, Plain	6
14	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4

MANIFOLD ASSEMBLY, LEVELING JACK

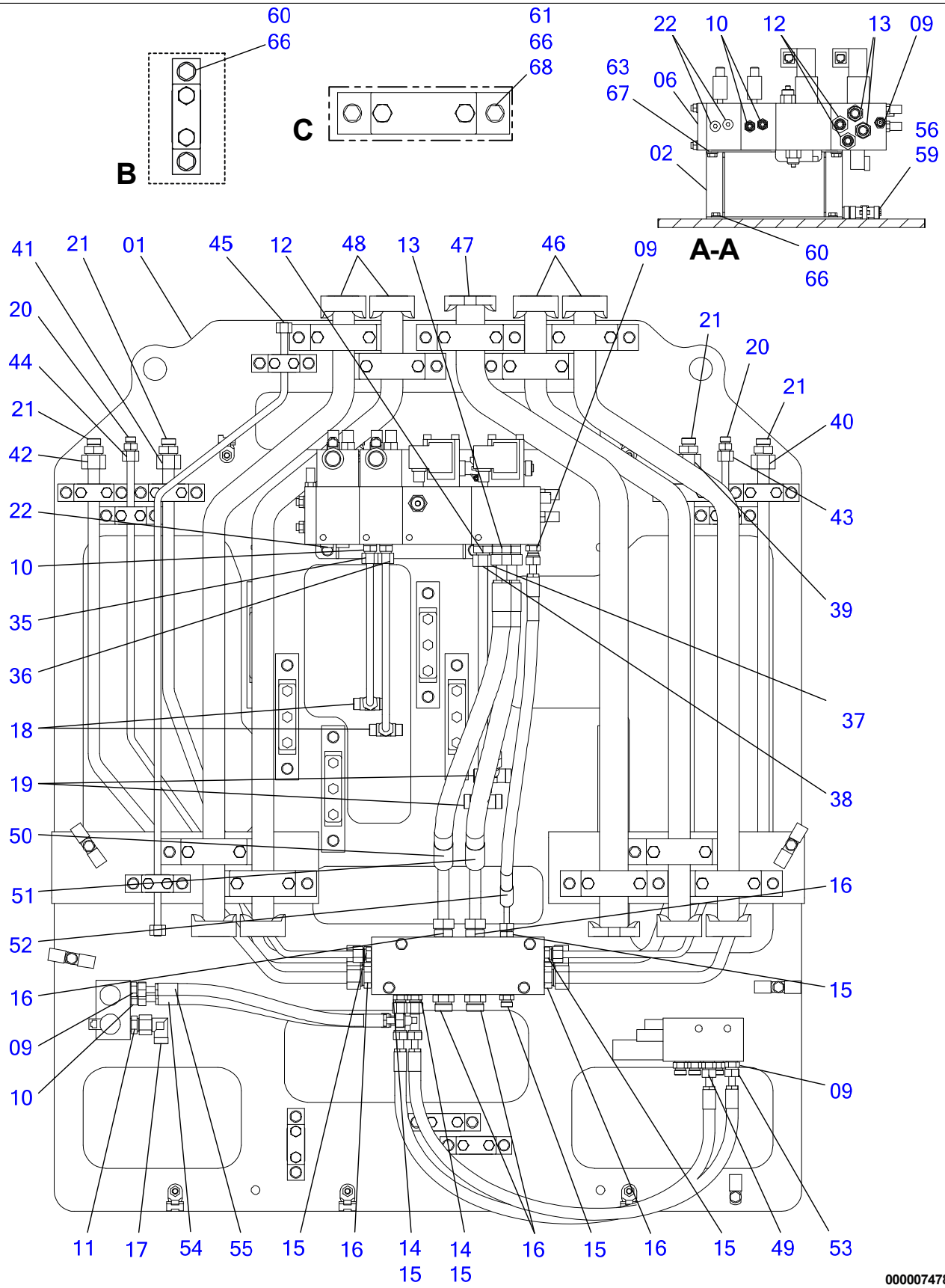


MANIFOLD ASSEMBLY,LEVELING JACK

MANIFOLD ASSEMBLY, LEVELING JACK

Item	Part No.	Description	Qty.
	R101887F1	MANIFOLD ASSEMBLY, LEVELING JACK	
01	R101888D1	· MOUNTING PLATE, Manifold	1
02	R101886D1	· MANIFOLD, Hydraulic	1
03	R78953D18	· CLAMP	1
04	R78953D24	· CLAMP	2
05	R88880D2	· BASE, Clamp	1
06	R88880D3	· BASE, Clamp	2
07	R98953D1	· BOLT, Eye	1
08	0825M10030	· BOLT, Hex Hd	6
09	0825M10190	· BOLT, Hex Hd	4
10	3612M010	· WASHER, Plain	6
11	R82264D20	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4
12	R92375D8	· STUD, Weld	4

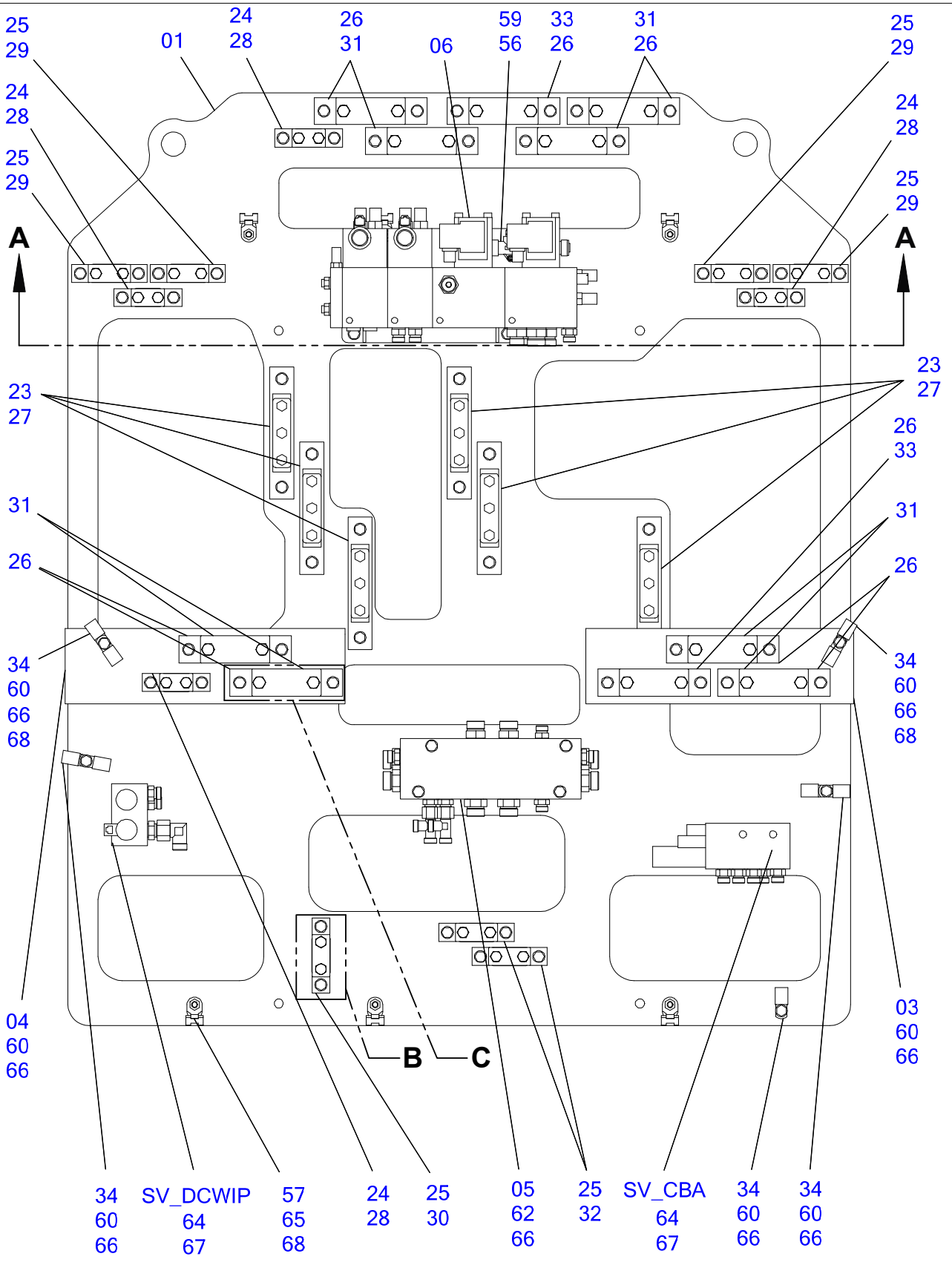
VALVE ASSEMBLY, MAST POSITION



VALVE ASSEMBLY, MAST POSITION

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VALVE ASSEMBLY, MAST POSITION



VALVE ASSEMBLY, MAST POSITION

KOMATSU

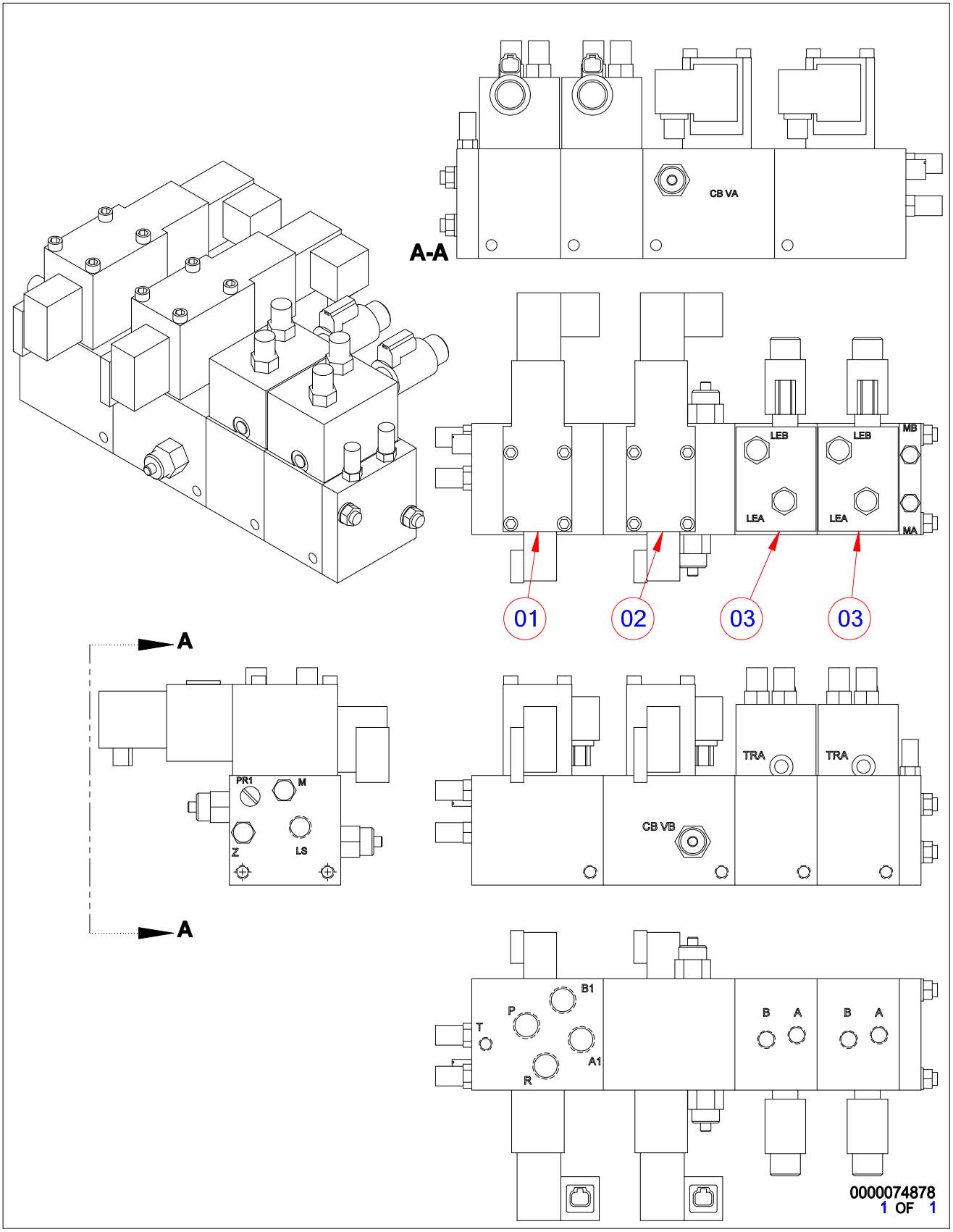
VALVE ASSEMBLY, MAST POSITION

Item	Part No.	Description	Qty.	Page
	R101718F1	VALVE ASSEMBLY, MAST POSITION		
01	R101717D1	· PLATE, Valve Mount	1	
02	R102805D1	· BRACKET, Valve Mount	1	
TCC_MFB	R101737D1	· BRACKET, Clamp Mount	1	
TCC_MFL	R101737D1	· BRACKET, Clamp Mount	1	
TCC_MRL	R101737D1	· BRACKET, Clamp Mount	1	
04	R102206D1	· BRACKET, Clamp Mount	1	
05	R99204D1	· BLOCK, Manifold	1	
06	R89814D1	· VALVE ASSEMBLY, Mast Position Control	1	81
SV_DCWIP	R89819D1	· VALVE, Water Injection Control	1	
SV_CBA	R89820D2	· CONTROL, Main Air	1	
09	R89792D4	· CONNECTOR, ISO	7	
10	R89792D5	· CONNECTOR, ISO	3	
11	R89792D9	· CONNECTOR, ISO	1	
12	R89792D11	· CONNECTOR, ISO	2	
13	R89792D14	· CONNECTOR, ISO	2	
14	R89795D2	· CONNECTOR, ISO	2	
15	R89778D3	· CONNECTOR, ISO	6	
16	R89778D8	· CONNECTOR, ISO	8	
17	R89793D3	· CONNECTOR, ISO	1	
18	R89773D2	· CONNECTOR, ISO	2	
19	R89773D3	· CONNECTOR, ISO	2	
20	R89771D1	· CONNECTOR, ISO	2	
21	R89771D6	· CONNECTOR, ISO	4	
22	R99663D3	· PLUG	2	
23	R92813D1	· BASE, Clamp	6	
24	R88880D1	· PLATE, Elongated Clamp Base	4	
25	R88880D2	· BASE, Clamp	7	
26	R88880D4	· BASE, Clamp	10	
27	R92795D6	· CLAMP	6	
28	R78952D5	· CLAMP	4	
29	R78952D9	· CLAMP	4	
30	R78953D18	· CLAMP	1	
31	R78952D17	· CLAMP	8	
32	R78953D21	· CLAMP	2	
33	R78952D20	· CLAMP	2	
34	32Z423D2	· CLAMP, Insulated	9	
35	R99381D1	· TUBE ASSEMBLY	1	
36	R99382D1	· TUBE ASSEMBLY	1	
37	R99383D1	· TUBE ASSEMBLY	1	

VALVE ASSEMBLY, MAST POSITION

Item	Part No.	Description	Qty.	Page
38	R99384D1	· TUBE ASSEMBLY	1	
39	R99387D1	· TUBE ASSEMBLY	1	
40	R99388D1	· TUBE ASSEMBLY	1	
41	R99389D1	· TUBE ASSEMBLY	1	
42	R99390D1	· TUBE ASSEMBLY	1	
43	R99394D1	· TUBE ASSEMBLY	1	
44	R99395D1	· TUBE ASSEMBLY	1	
45	R102203D1	· TUBE ASSEMBLY	1	
46	R102193D1	· TUBE ASSEMBLY	2	
47	R102200D1	· TUBE ASSEMBLY	1	
48	R102201D1	· TUBE ASSEMBLY	2	
49	R89780T06M20D93	· HOSE ASSEMBLY	1	
50	R89781T12M30D72	· HOSE ASSEMBLY	1	
51	R89781T12M30D69	· HOSE ASSEMBLY	1	
52	R89781T06M20D68	· HOSE ASSEMBLY	1	
53	R89780T06M20D92	· HOSE ASSEMBLY	1	
54	R89780T06M20D43	· HOSE ASSEMBLY	1	
55	R89780T06M20D45	· HOSE ASSEMBLY	1	
56	R90737D1	· ADAPTER, T-Connector	3	
57	R88247D1	· MOUNT, Single	6	
58	R92375D8	· STUD, Arc Weld (Not Shown)	6	
59	0630M04030	· SCREW, Socket Head	3	
60	0825M10025	· BOLT, Hex Hd	59	
61	0825M10030	· BOLT, Hex Hd	12	
62	0825M10120	· BOLT, Hex Hd	4	
63	0825M12020	· BOLT, Hex Hd	2	
64	0825M12035	· BOLT, Hex Hd	5	
65	18Z3087D4	· WASHER, Conical Lock	6	
66	3612M010	· WASHER, Plain	90	
67	3612M012	· WASHER, Plain	7	
68	2104M010	· NUT, Hex	20	

VALVE ASSEMBLY, MAST POSITION CONTROL

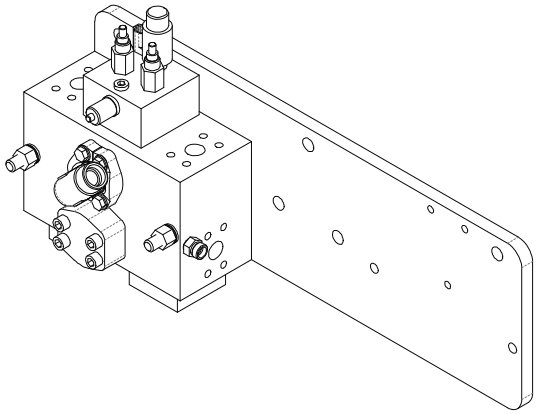


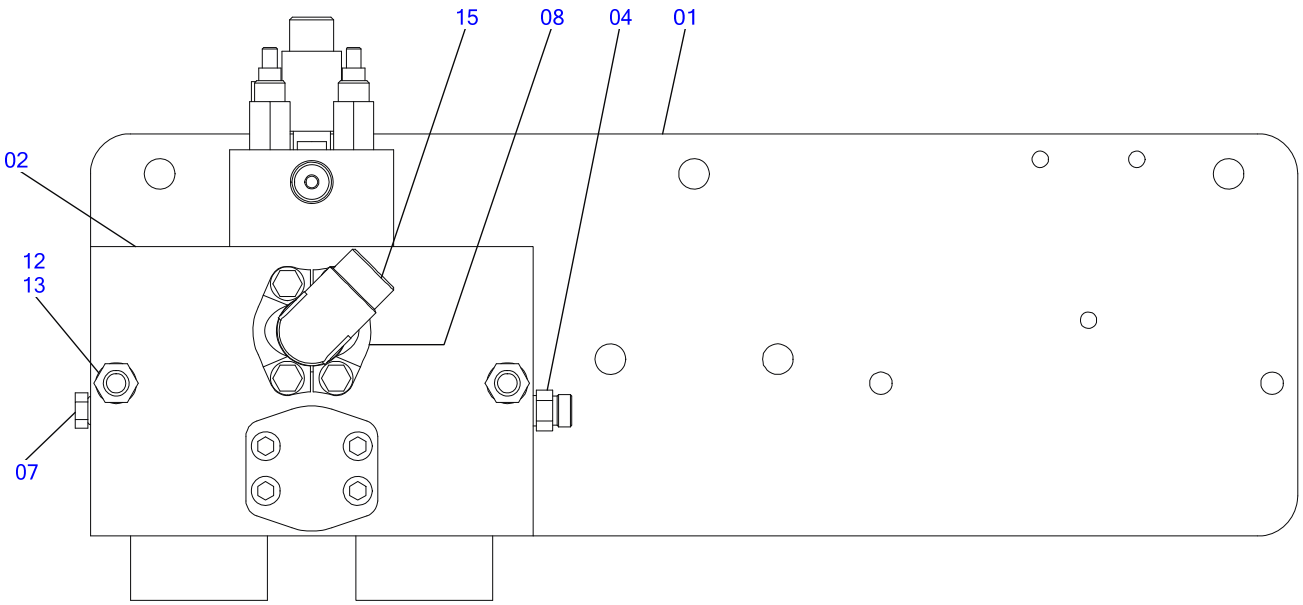
VALVE ASSEMBLY, MAST POSITION CONTROL

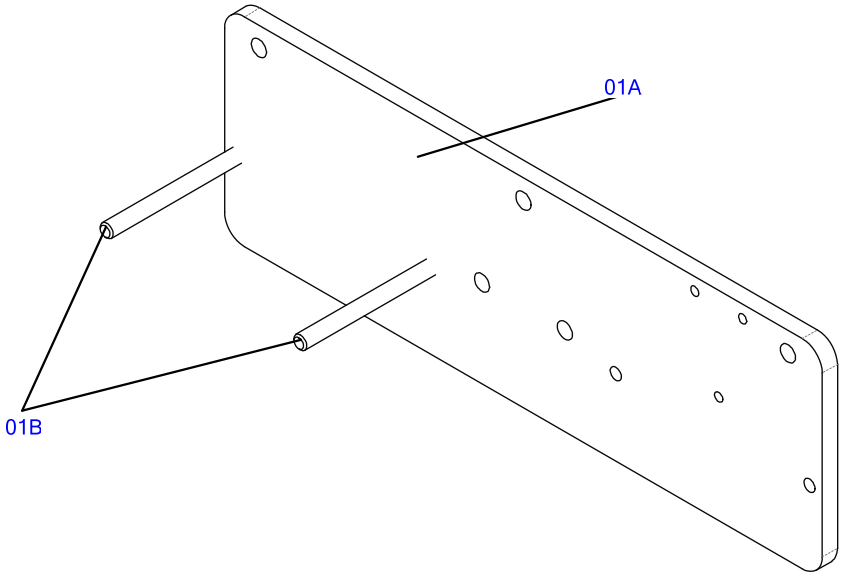
VALVE ASSEMBLY, MAST POSITION CONTROL

Item	Part No.	Description	Qty.
	R89814D1	VALVE ASSEMBLY, MAST POSITION CONTROL	
01	R91523D1	▪ VALVE, Proportional	1
02	R110089D1	▪ VALVE,PROPORTIONAL,63 LPM	1
03	R91525D1	▪ VALVE, Selector	2

VALVE ASSEMBLY, RELIEF







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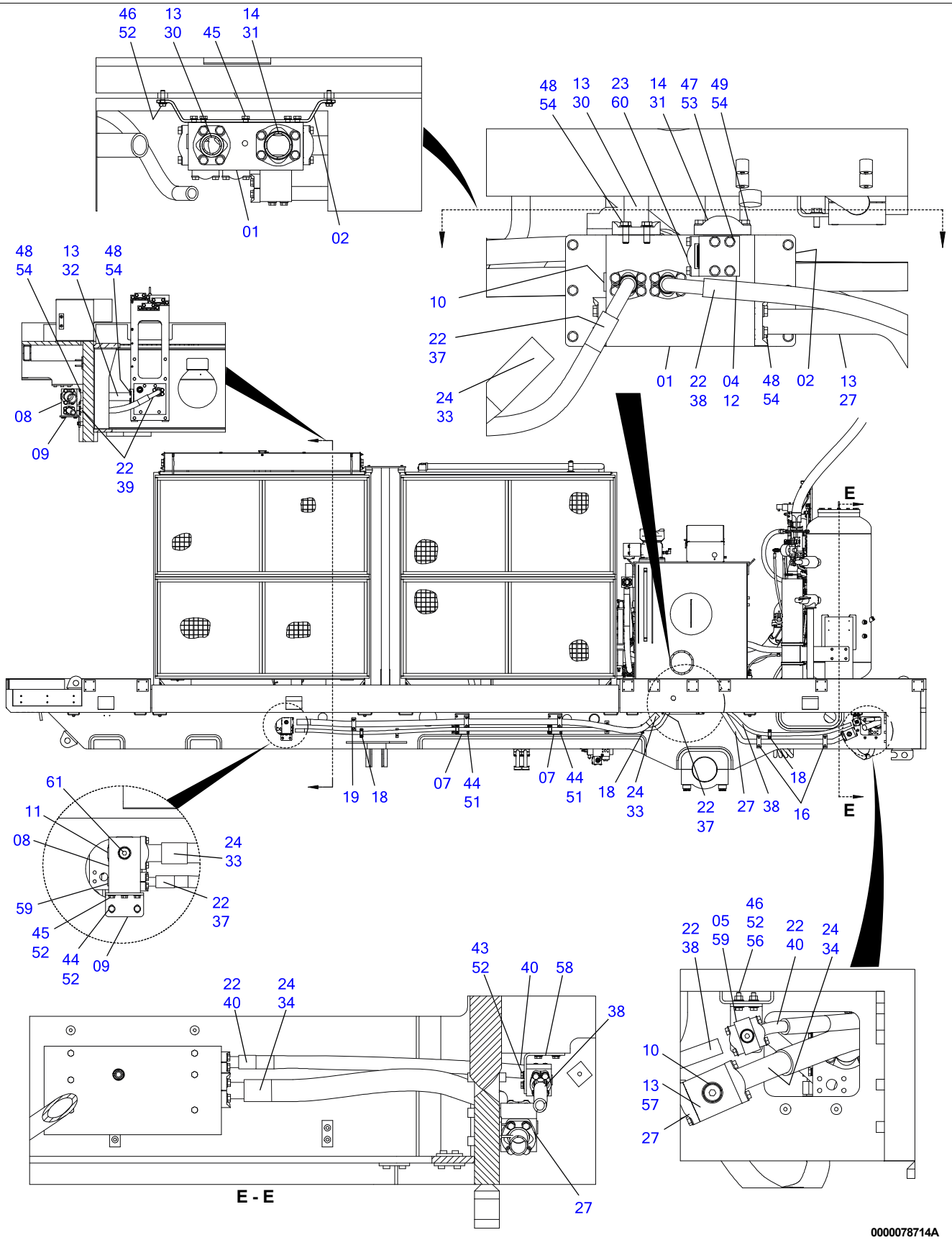
VALVE ASSEMBLY, RELIEF

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VALVE ASSEMBLY, RELIEF

Item	Part No.	Description	Qty.
	R102613F2	VALVE ASSEMBLY, RELIEF	
01	R102610F2	▪ PLATE, Relief Valve	1
01A	R102611D1	▪ ▪ PLATE, Relief Valve	1
01B	R84057D1	▪ ▪ ROD, Threaded	2
02	R91420D1	▪ VALVE ASSEMBLY, Relief	1
03		NOT USED	
04	R89792D4	▪ CONNECTOR, ISO	1
05		NOT USED	
06		NOT USED	
07	R92940D1	▪ PLUG, Hex Hd	1
08	R87258D4	▪ KIT, Split Flange	1
09		NOT USED	
10		NOT USED	
11		NOT USED	
12	R82264D10	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	2
13	2104M016	▪ NUT, Hex	2
14		NOT USED	
15	R89861D3	▪ CONNECTOR, ISO	1

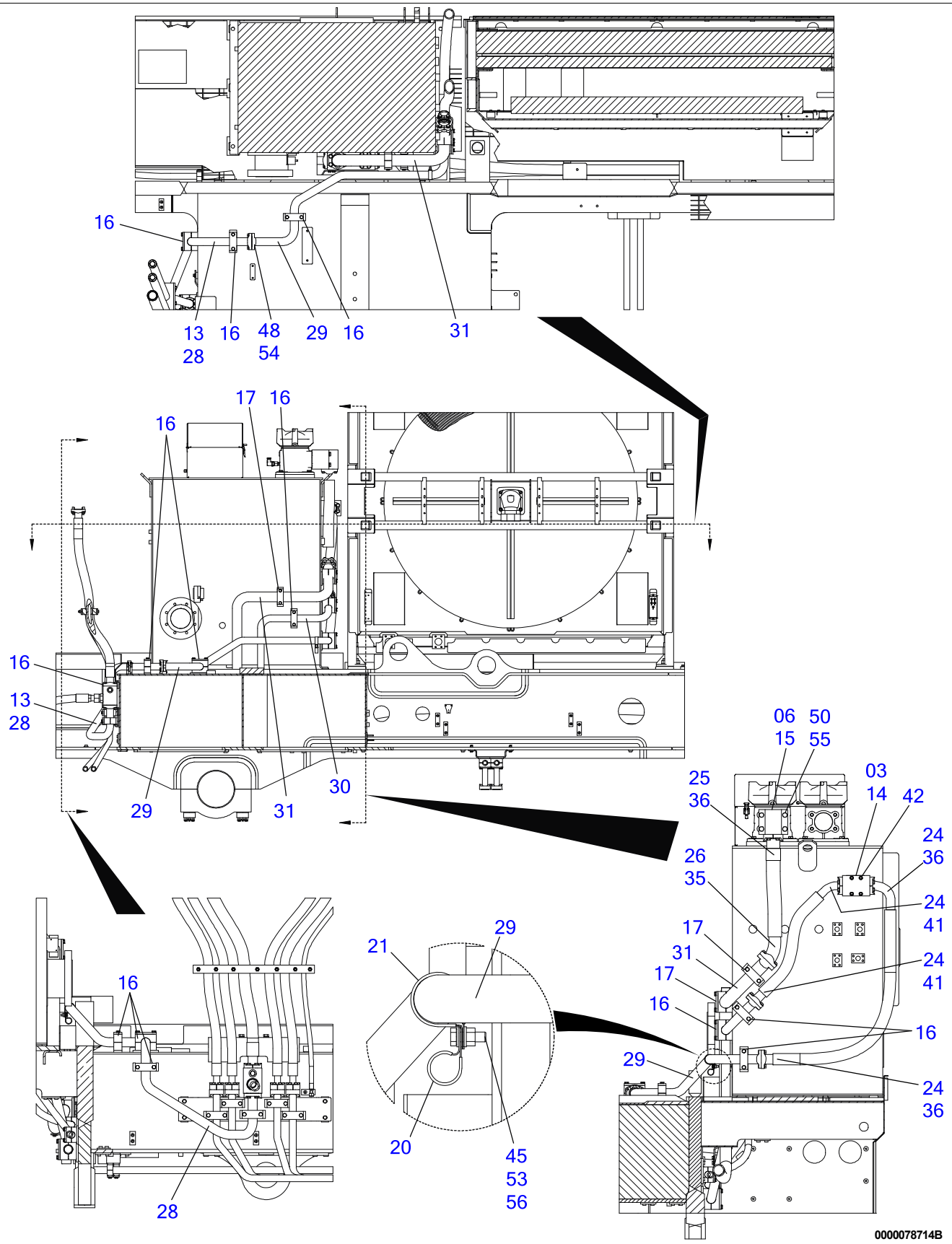
HYDRAULIC ROUTINGS, RETURN/DRAIN



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HYDRAULIC ROUTINGS, RETURN/DRAIN

HYDRAULIC ROUTINGS, RETURN/DRAIN



HYDRAULIC ROUTINGS, RETURN/DRAIN CONT.

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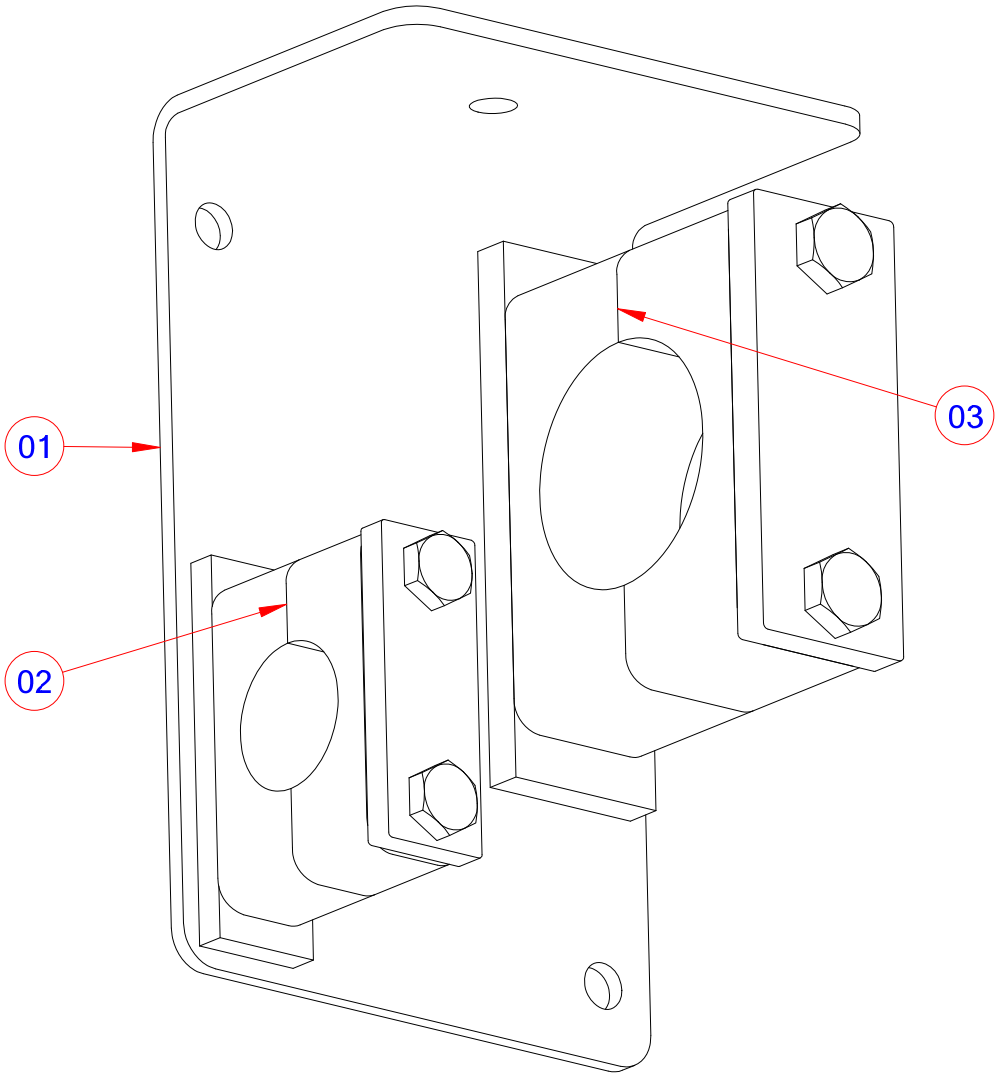
HYDRAULIC ROUTINGS, RETURN/DRAIN

Item	Part No.	Description	Qty.	Page
	R107425F1	HYDRAULIC ROUTINGS, RETURN/DRAIN		
01	R102170D1	· MANIFOLD, Return/Tank	1	
02	R102171D1	· BRACKET, Manifold Mount	1	
03	R98336D1	· BLOCK, Manifold Drain	1	
04	R101942D1	· ELBOW	1	
05	R105794D1	· ADAPTER	1	
06	R80958D1	· ADAPTER	1	
07	R103100F1	· CLAMP	2	84
08	R107411D1	· MANIFOLD, Hydraulic Drain	1	
09	R102921D1	· BRACKET, Manifold Mount	1	
10	R89216D10	· PLUG	2	
11	2422V006	· PLUG, Pipe	1	
12	45Z479D22	· O-RING	1	
13	45Z479D24	· O-RING	6	
14	45Z479D47	· O-RING	2	
15	45Z479D50	· O-RING	1	
16	R78952D20	· CLAMP	8	
17	R78952D24	· CLAMP	2	
18	R78953D27	· CLAMP	3	
19	R78953D40	· CLAMP	1	
20	32Z423D26	· CLAMP, Insulated	1	
21	32Z423D34	· CLAMP	1	
22	R87258D3	· KIT, Split Flange	8	
23	R87258D4	· KIT, Split Flange	1	
24	R87258D6	· KIT, Split Flange	8	
25	R87256D7	· KIT, Split Flange	1	
26	R87258D7	· KIT, Split Flange	1	
27	R105792D1	· TUBE ASSEMBLY	1	
28	R102150D1	· TUBE ASSEMBLY	1	
29	R102735D1	· TUBE ASSEMBLY	1	
30	R102161D1	· TUBE ASSEMBLY	1	
31	R102162D1	· TUBE ASSEMBLY	1	
32	R102218D1	· TUBE, ISO	1	
33	R89790T32D428	· HOSE ASSEMBLY	1	
34	R89790T32D99	· HOSE ASSEMBLY	1	
35	R89790T40D73	· HOSE ASSEMBLY	1	
36	R89791T32D154	· HOSE ASSEMBLY	1	
37	R89791T16D450	· HOSE ASSEMBLY	1	
38	R89791T16D215	· HOSE ASSEMBLY	1	
39	R89791T16D61	· HOSE ASSEMBLY	1	

HYDRAULIC ROUTINGS, RETURN/DRAIN

Item	Part No.	Description	Qty.	Page
40	R89864T16D102	▪ HOSE ASSEMBLY	1	
41	R89790T32D87	▪ HOSE ASSEMBLY	1	
42	0830M12130	▪ SCREW, Socket Head	4	
43	0825M10020	▪ BOLT, Hex Hd	2	
44	0825M10025	▪ BOLT, Hex Hd	6	
45	0825M10030	▪ BOLT, Hex Hd	10	
46	0825M10035	▪ BOLT, Hex Hd	8	
47	0825M10090	▪ BOLT, Hex Hd	4	
48	0825M12035	▪ BOLT, Hex Hd	24	
49	0825M12040	▪ BOLT, Hex Hd	4	
50	0825M16150	▪ BOLT, Hex Hd	4	
51	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	10	
52	R86393D8	▪ WASHER, Nord Lock	17	
53	3648M010	▪ WASHER, Hardened	6	
54	3648M012	▪ WASHER, Hardened	28	
55	R82264D10	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4	
56	2104M010	▪ NUT, Hex	3	
57	R105793D1	▪ ADAPTER	1	
58	R105795D1	▪ BRACKET, Adapter Mount	1	
59	R89216D7	▪ PLUG, O-Ring	2	
60	44T842D8	▪ PLUG, Flange	1	
61	R89216D9	▪ PLUG	1	

CLAMP



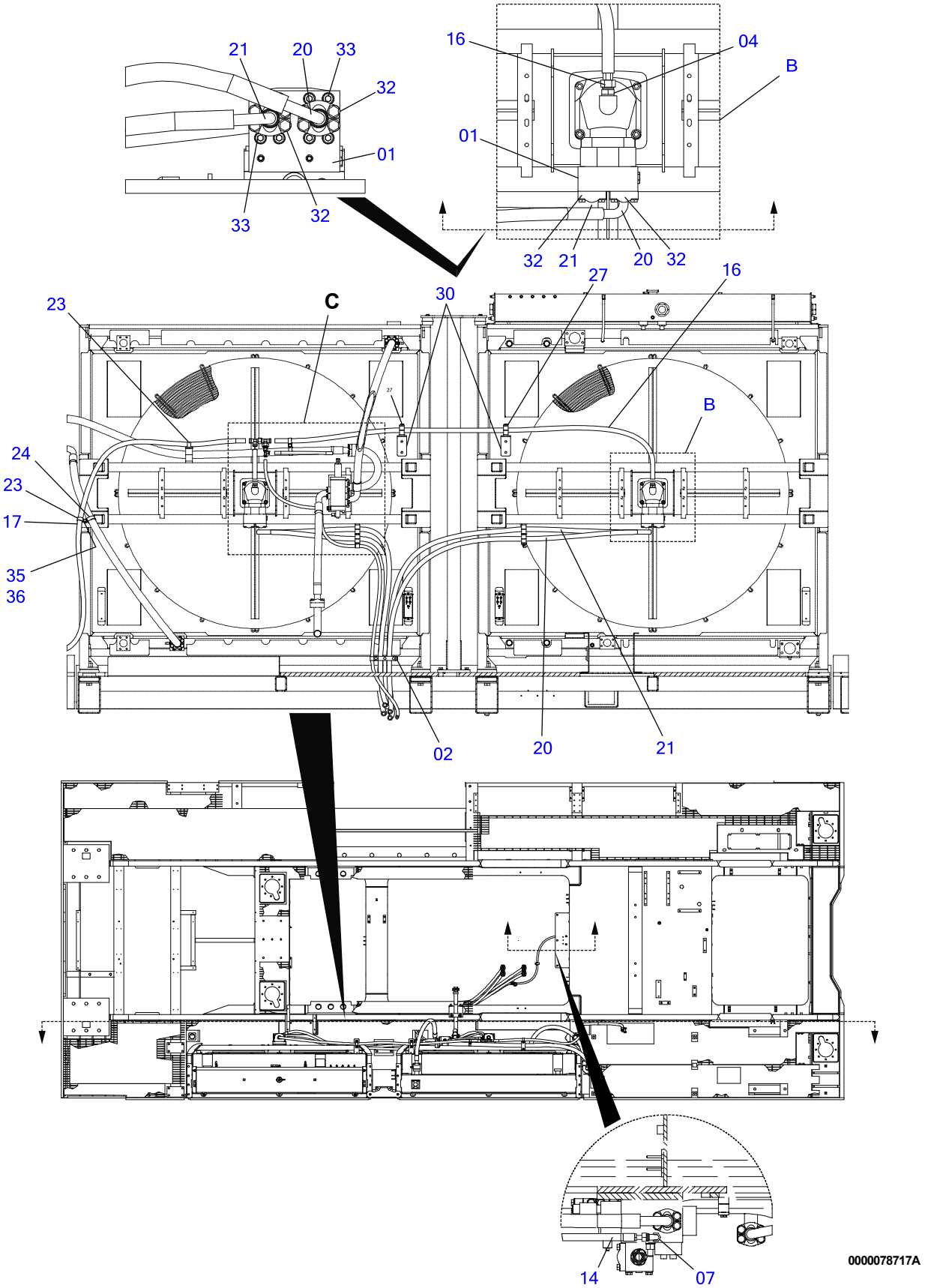
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CLAMP

CLAMP

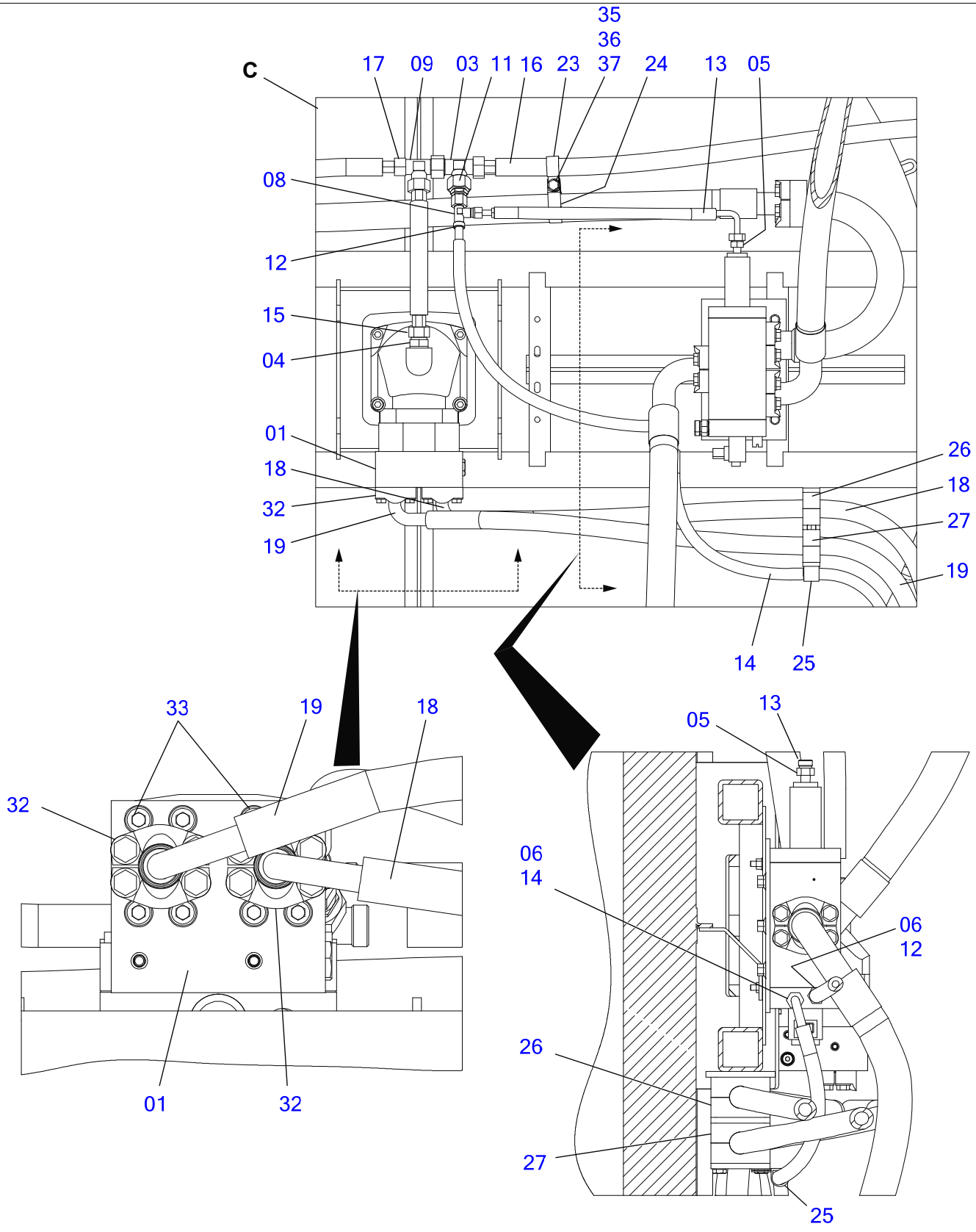
Item	Part No.	Description	Qty.
	R103100F1	CLAMP	
01	R103099D1	▪ BRACKET, Clamp Mount	1
02	R78174D27	▪ CLAMP	1
03	R78174D40	▪ CLAMP	1

INSTALLATION, HYDRAULIC ROUTING COOLERS



INSTALLATION, HYDRAULIC ROUTING COOLERS

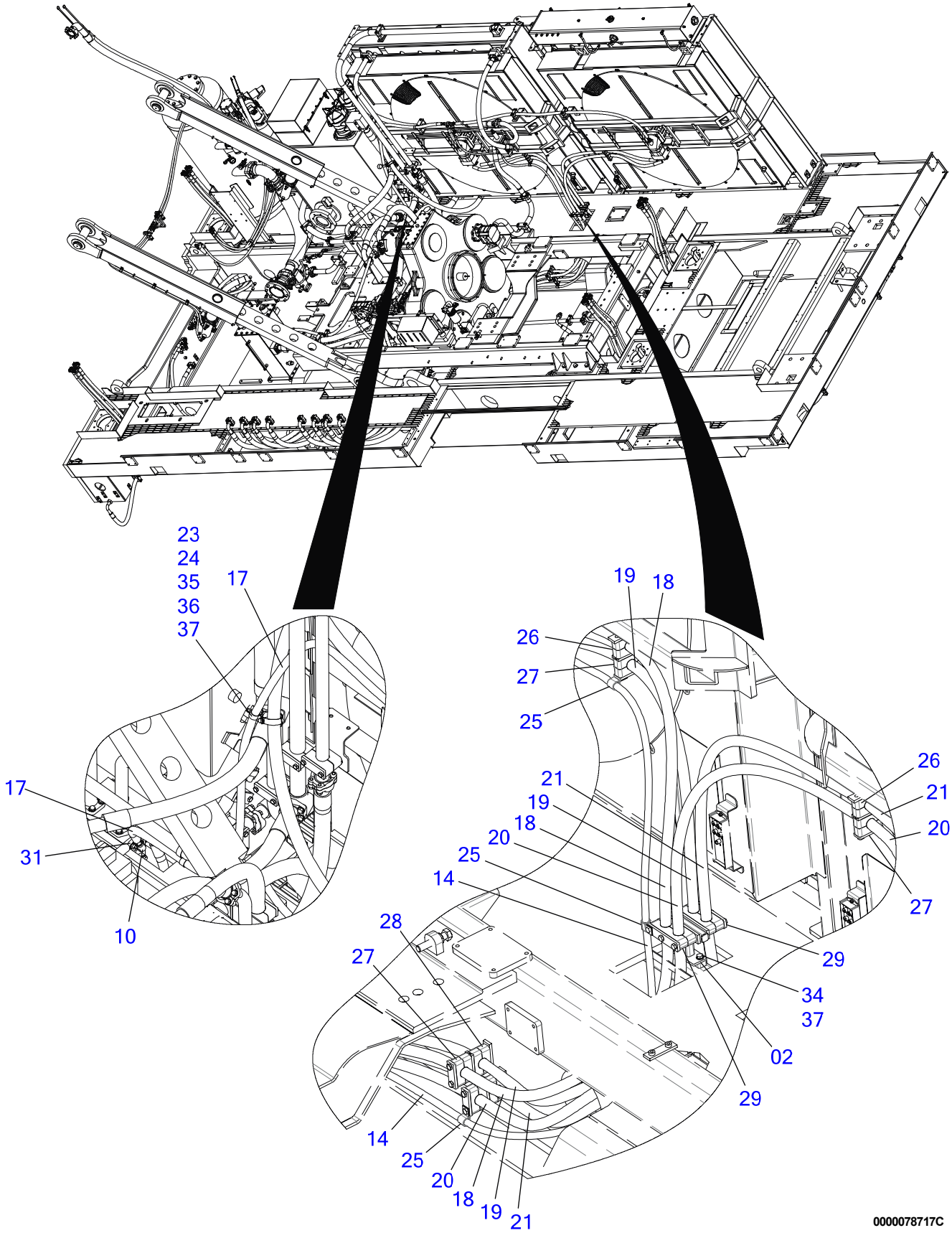
INSTALLATION, HYDRAULIC ROUTING COOLERS



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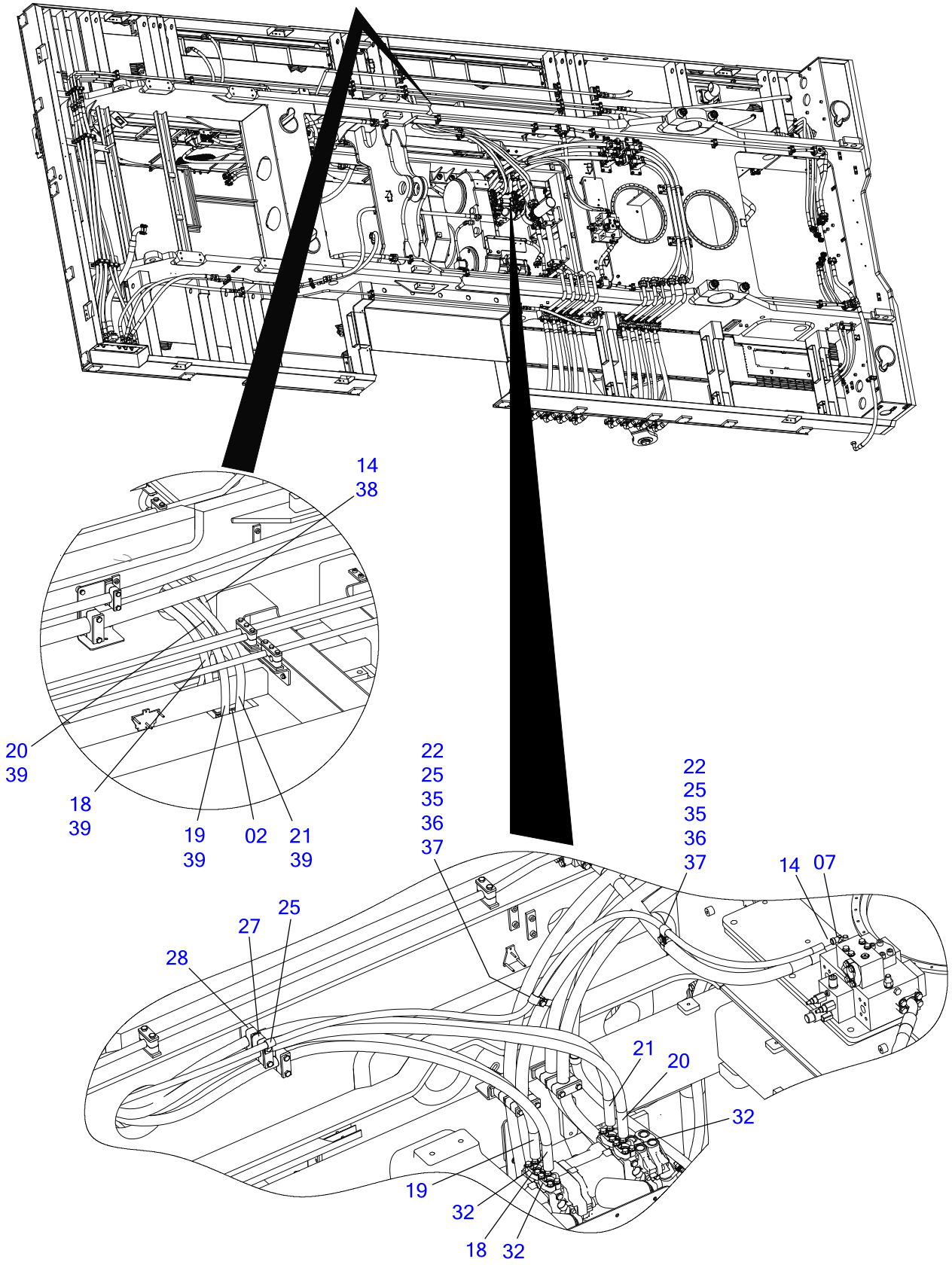
INSTALLATION, HYDRAULIC ROUTING COOLERS CONT.

INSTALLATION, HYDRAULIC ROUTING COOLERS



TOP ISO VIEW

INSTALLATION, HYDRAULIC ROUTING COOLERS



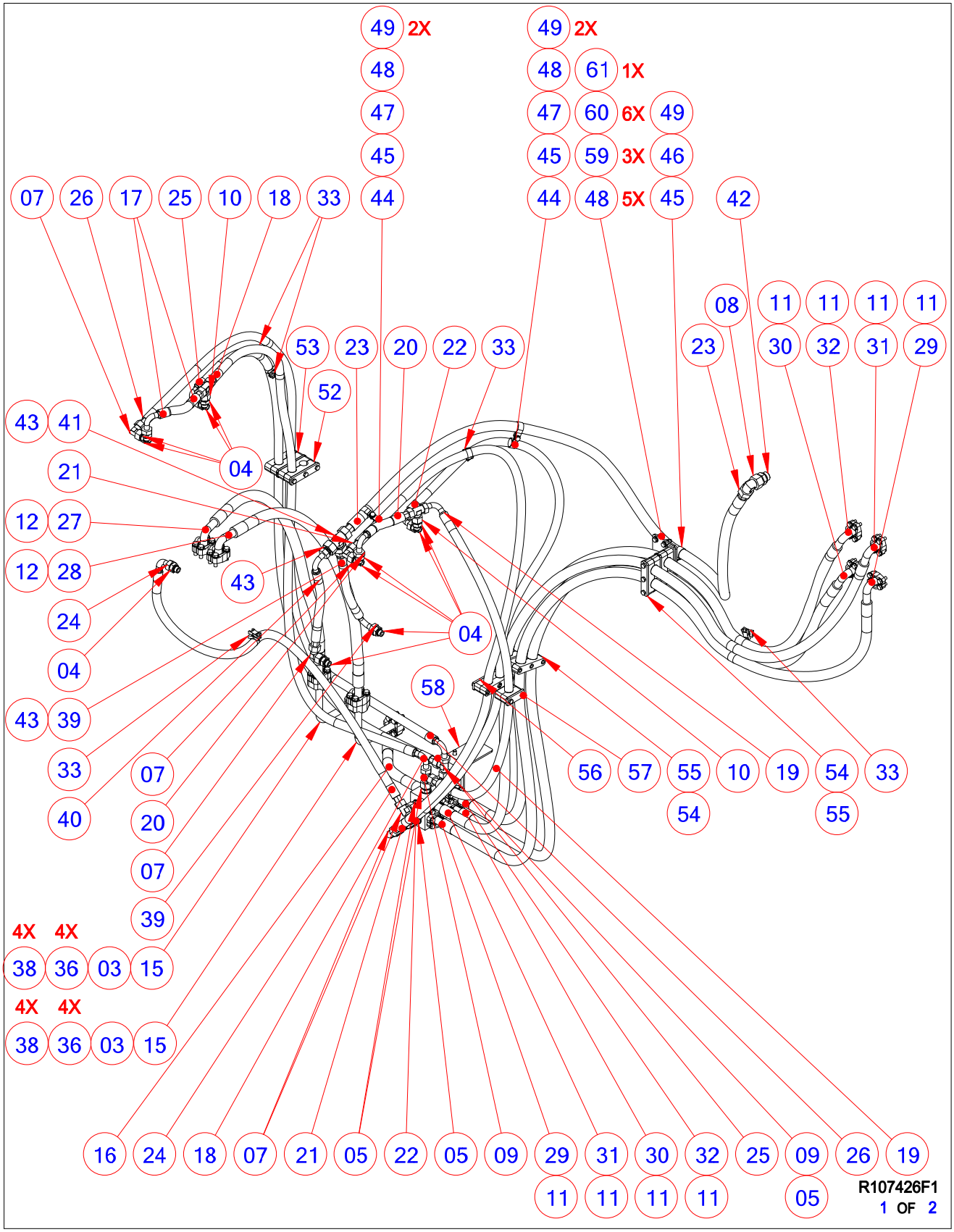
BOTTOM ISO VIEW

INSTALLATION, HYDRAULIC ROUTING COOLERS

Item	Part No.	Description	Qty.
	R106614F1	INSTALLATION, HYDRAULIC ROUTING COOLERS	
01	R106805D1	• MANIFOLD, Fan Drive Motor	2
02	R106615D1	• BRACKET, Hose Clamp	1
03	R89773D4	• CONNECTOR, ISO Union	1
04	R89777D11	• CONNECTOR, ISO	2
05	R89779D5	• CONNECTOR, ISO	1
06	R89792D4	• CONNECTOR, ISO	2
07	R89793D2	• CONNECTOR, ISO	1
08	R89795D2	• CONNECTOR, ISO	1
09	R89795D4	• CONNECTOR, ISO	1
10	R89861D1	• CONNECTOR, ISO	1
11	R89862D5	• CONNECTOR, ISO Union	1
12	R89780T06M20D66	• HOSE ASSEMBLY	1
13	R89782T06M20D46	• HOSE ASSEMBLY	1
14	R89782T06M20D450	• HOSE ASSEMBLY	1
15	R89783T12M30D26	• HOSE ASSEMBLY	1
16	R89783T12M30D286	• HOSE ASSEMBLY	1
17	R89783T12M30D303	• HOSE ASSEMBLY	1
18	R89788T12D387	• HOSE ASSEMBLY	1
19	R89788T12D406	• HOSE ASSEMBLY	1
20	R89788T12D494	• HOSE ASSEMBLY	1
21	R89788T12D503	• HOSE ASSEMBLY	1
22	32Z423D4	• CLAMP, Insulated	2
23	32Z423D26	• CLAMP, Insulated	3
24	32Z423D34	• CLAMP	2
25	32Z423D44	• CLAMP, Insulated	5
26	R78949D24	• CLAMP	2
27	R78953D24	• CLAMP	6
28	R88404D24	• CLAMP	2
29	R92795D8	• CLAMP, Heavy Twin	2
30	R106996D1	• BRACKET, Clamp	2
31	R87258D2	• KIT, Split Flange	1
32	R87259D2	• KIT, Split Flange	8
33	0830V085	• SCREW, Socket Head Cap	16
34	0825M10025	• BOLT, Hex Hd	2
35	0825M10030	• BOLT, Hex Hd	4
36	2104M010	• NUT, Hex	4
37	3648M010	• WASHER, Hardened	10
38	R103138T12D1	• SLEEVE, Spiral Hose Wrap	1
39	R103138T20D12	• SLEEVE, Spiral Hose Wrap	1

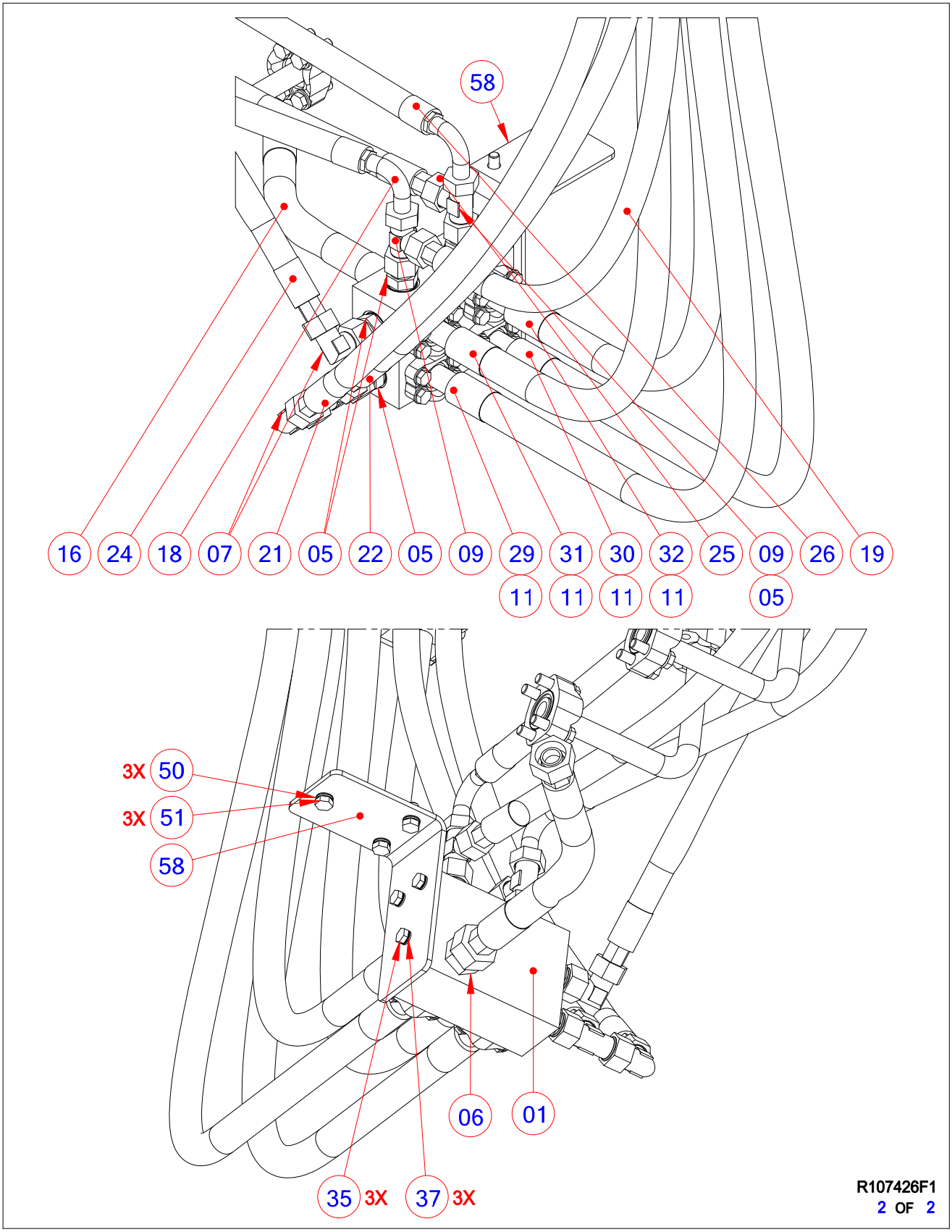
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HYDRAULIC ROUTING, AUX PUMP



HYD ROUTING,AUX PUMP

HYDRAULIC ROUTING, AUX PUMP



HYD ROUTING,AUX PUMP

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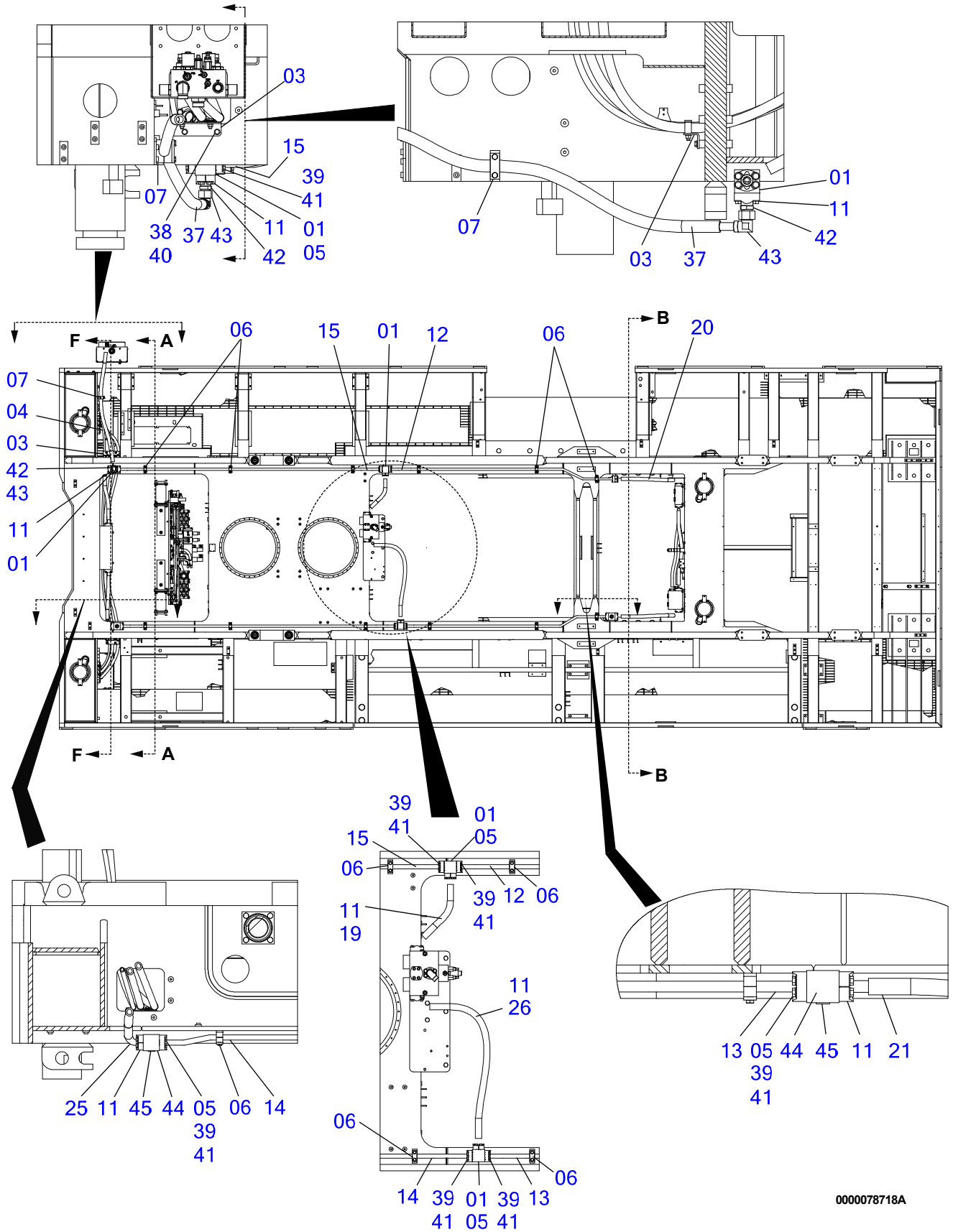
HYDRAULIC ROUTING, AUX PUMP

Item	Part No.	Description	Qty.
	R107426F1	HYDRAULIC ROUTING, AUX PUMP	
01	R107418D1	• MANIFOLD, Hydraulic Drain	1
03	45Z479D21	• O-RING	2
04	R89778D8	• CONNECTOR, ISO	11
05	R89778D9	• CONNECTOR, ISO	4
06	R89778D11	• CONNECTOR, ISO	1
07	R89793D4	• CONNECTOR, ISO	5
08	R89793D5	• CONNECTOR, ISO	1
09	R89795D4	• CONNECTOR, ISO	3
10	R89796D4	• CONNECTOR, ISO	2
11	R87258D3	• KIT, Split Flange	8
12	R87259D3	• KIT, Split Flange	4
15	R102946D1	• TUBE ASSEMBLY	2
16	R89783T16M36D43	• HOSE ASSEMBLY	1
17	R89785T12M30D28	• HOSE ASSEMBLY	1
18	R89785T12M30D245	• HOSE ASSEMBLY	1
19	R89785T12M30D195	• HOSE ASSEMBLY	1
20	R89785T12M30D27	• HOSE ASSEMBLY	1
21	R89783T12M30D250	• HOSE ASSEMBLY	1
22	R89785T12M30D250	• HOSE ASSEMBLY	1
23	R89783T16M36D268	• HOSE ASSEMBLY	1
24	R89785T12M30D160	• HOSE ASSEMBLY	1
25	R89785T12M30D240	• HOSE ASSEMBLY	1
26	R89785T12M30D285	• HOSE ASSEMBLY	1
27	R89788T16D124	• HOSE ASSEMBLY	1
28	R89788T16D125	• HOSE ASSEMBLY	1
29	R89791T16D350	• HOSE ASSEMBLY	1
30	R89791T16D340	• HOSE ASSEMBLY	1
31	R89791T16D330	• HOSE ASSEMBLY	1
32	R89791T16D328	• HOSE ASSEMBLY	1
33	R89384D1	• SPACER, Dual Saddle	15
34	R88249D1	• TIE, Wire	12
35	0825M10025	• BOLT, Hex Hd	3
36	0825M12045	• BOLT, Hex Hd	8
37	R82264D20	• LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	3
38	3648M012	• WASHER, Hardened	8
39	R89785T12M30D52	• HOSE ASSEMBLY	1
40	R89785T12M30D49	• HOSE ASSEMBLY	1
41	R89773D5	• CONNECTOR, Union	1
42	R89778D12	• CONNECTOR, ISO	1

HYDRAULIC ROUTING, AUX PUMP

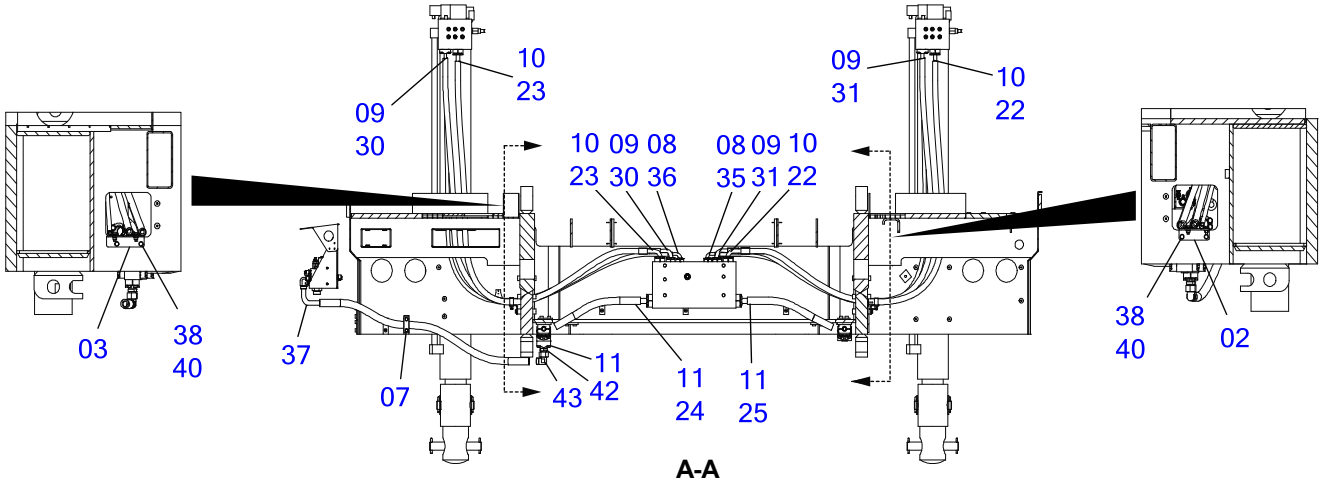
Item	Part No.	Description	Qty.
43	R89862D10	• CONNECTOR, Union	2
44	32Z423D26	• CLAMP, Insulated	2
45	32Z423D29	• CLAMP, Insulated	3
46	0825M10016	• BOLT, Hex Hd	1
47	0825M10030	• BOLT, Hex Hd	2
48	2104M010	• NUT, Hex	5
49	3648M010	• WASHER, Hardened	5
50	R82264D21	• LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	3
51	0825M12025	• BOLT, Hex Hd	3
52	R92795D8	• CLAMP, Heavy Twin	1
53	R92810D8	• CLAMP, Heavy Twin	1
54	R92795D10	• CLAMP, Heavy Twin	2
55	R92810D10	• CLAMP, Heavy Twin	2
56	R104958D8	• CLAMP, Twin	1
57	R85406D23	• CLAMP	1
58	R110807D1	• BRACKET MOUNTING, Aux Drain Manifold	1
59	0825M10035	• BOLT, Hex Hd	3
60	R86393D8	• WASHER, Nord Lock	6
61	R111227D1	• BRACKET MOUNTING, Aux Drain Manifold	1

HYDRAULIC ROUTING, LEVELING JACKS

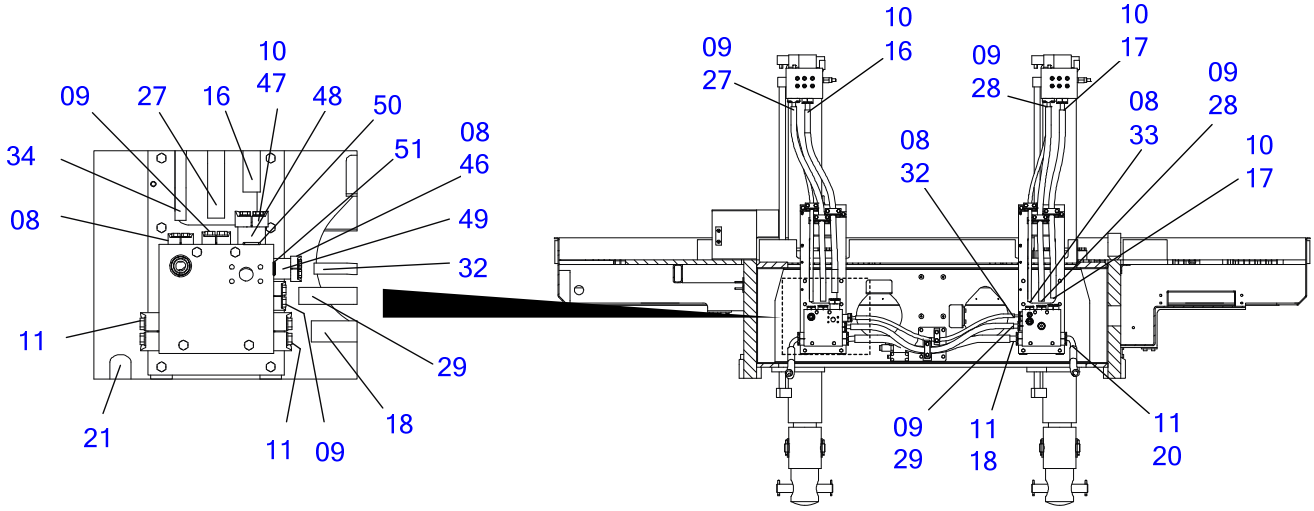


HYDRAULIC ROUTING, LEVELING JACKS

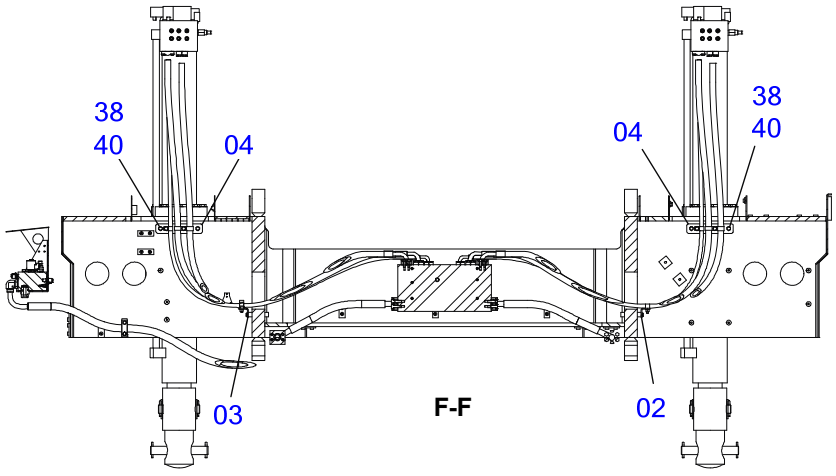
HYDRAULIC ROUTING, LEVELING JACKS



A-A



B-B



F-F

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HYDRAULIC ROUTING, LEVELING JACKS

KOMATSU

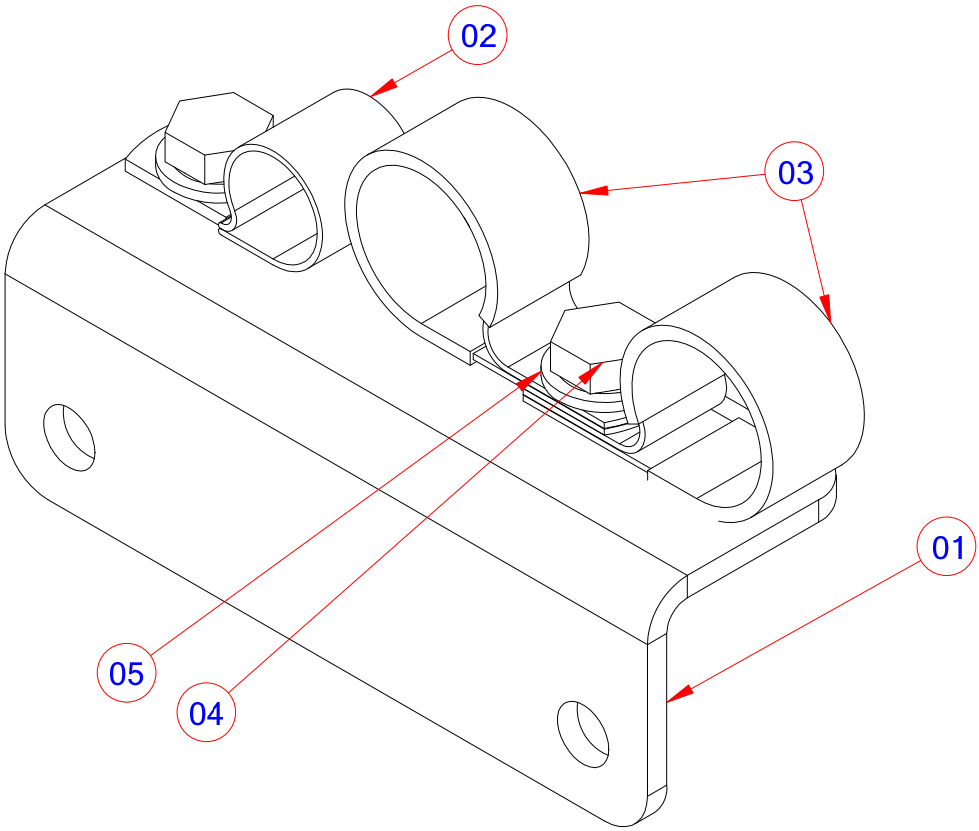
HYDRAULIC ROUTING, LEVELING JACKS

Item	Part No.	Description	Qty.	Page
	R107427F1	HYDRAULIC ROUTING, LEVELING JACKS		
01	R99627D1	• TEE, Run	3	
02	R101854F1	• CLAMP	1	88
03	R101854F2	• CLAMP	1	89
04	R101927F1	• CLAMP	2	90
05	45Z479D21	• O-RING	7	
06	R78952D11	• CLAMP	12	
07	R78953D27	• CLAMP	1	
08	R87258D1	• KIT, Split Flange	10	
09	R87258D2	• KIT, Split Flange	10	
10	R87259D2	• KIT, Split Flange	8	
11	R87259D3	• KIT, Split Flange	15	
12	R101829D1	• TUBE ASSEMBLY	1	
13	R107417D1	• TUBE ASSEMBLY	1	
14	R105705D1	• TUBE ASSEMBLY	1	
15	R102498D1	• TUBE ASSEMBLY	1	
16	R89786T12D119	• HOSE ASSEMBLY	1	
17	R89786T12D120	• HOSE ASSEMBLY	1	
18	R89786T16D101	• HOSE ASSEMBLY	1	
19	R89787T16D56	• HOSE ASSEMBLY	1	
20	R89788T16D80	• HOSE ASSEMBLY	1	
21	R89788T16D82	• HOSE ASSEMBLY	1	
22	R89788T12D266	• HOSE ASSEMBLY	1	
23	R89788T12D256	• HOSE ASSEMBLY	1	
24	R89788T16D70	• HOSE ASSEMBLY	1	
25	R89788T16D69	• HOSE ASSEMBLY	1	
26	R89788T16D125	• HOSE ASSEMBLY	1	
27	R89789T12D122	• HOSE ASSEMBLY	1	
28	R89789T12D119	• HOSE ASSEMBLY	1	
29	R89789T12D106	• HOSE ASSEMBLY	1	
30	R89791T12D264	• HOSE ASSEMBLY	1	
31	R89791T12D263	• HOSE ASSEMBLY	1	
32	R89863T08D101	• HOSE ASSEMBLY	1	
33	R89863T08D121	• HOSE ASSEMBLY	1	
34	R89863T08D122	• HOSE ASSEMBLY	1	
35	R89865T08D265	• HOSE ASSEMBLY	1	
36	R89865T08D269	• HOSE ASSEMBLY	1	
37	R89782T16M36D150	• HOSE ASSEMBLY	1	
38	0825M10025	• BOLT, Hex Hd	8	
39	0825M12045	• BOLT, Hex Hd	28	

HYDRAULIC ROUTING, LEVELING JACKS

Item	Part No.	Description	Qty.	Page
40	3648M010	• WASHER, Hardened	8	
41	3648M012	• WASHER, Hardened	28	
42	R89858D4	• CONNECTOR, ISO	1	
43	R89793D5	• CONNECTOR, ISO	1	
44	R105704D1	• ADAPTER, ISO	2	
45	R89216D9	• PLUG	2	
46	0825M08055	• BOLT, Hex Hd	4	
47	0825M10070	• BOLT, Hex Hd	4	
48	R116891D1	• MANIFOLD, Gauge Port	1	
49	R116890D1	• MANIFOLD, Gauge Port	1	
50	45Z479D46	• O-RING	1	
51	45Z479D19	• O-RING	1	

CLAMP



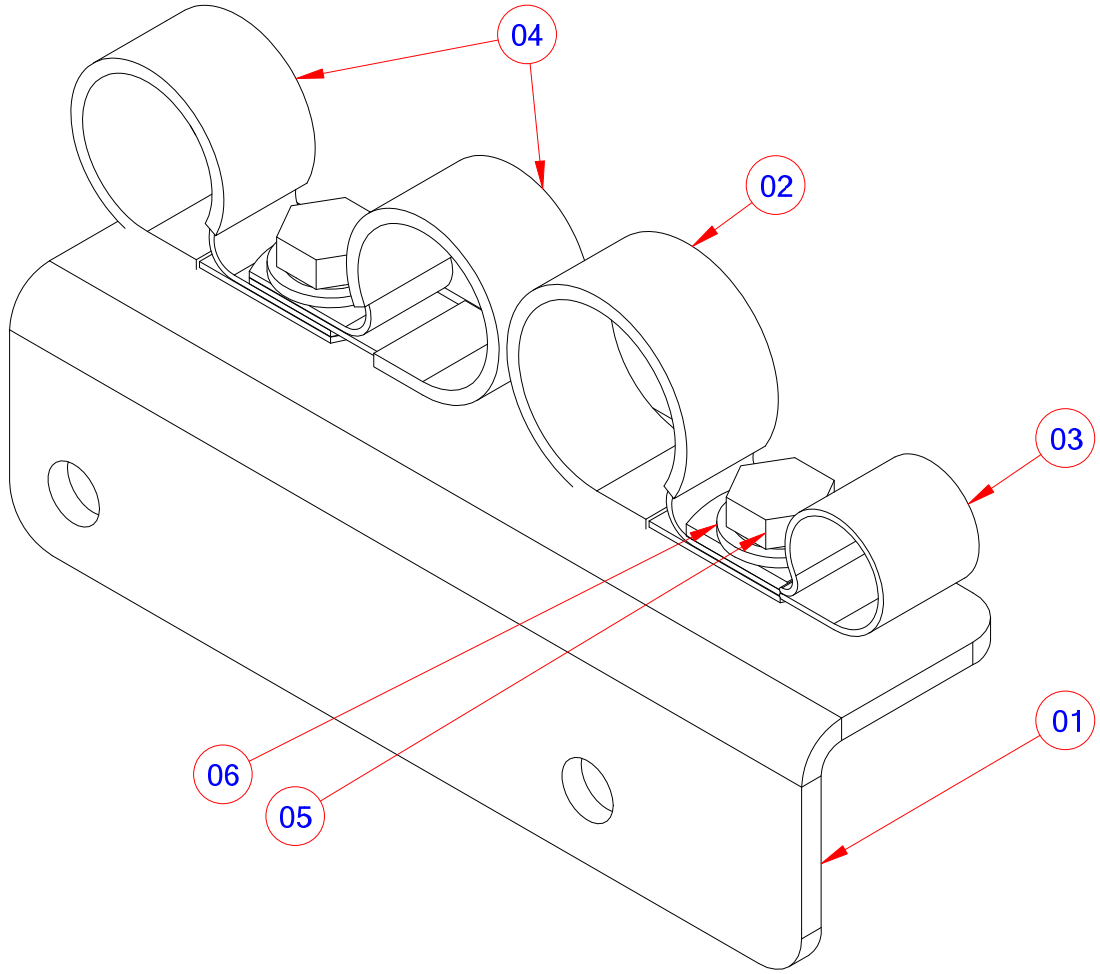
R101854F1
1 OF 1

CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R101854F1	CLAMP	
01	R102435D1	▪ BRACKET, Clamp Mount	1
02	32Z423D21	▪ CLAMP	1
03	32Z423D26	▪ CLAMP	2
04	0825M10030	▪ BOLT, Hex Hd	2
05	3648M010	▪ WASHER, Hardened	4
06	2104M010	▪ NUT, Hex (Not Shown)	2

CLAMP



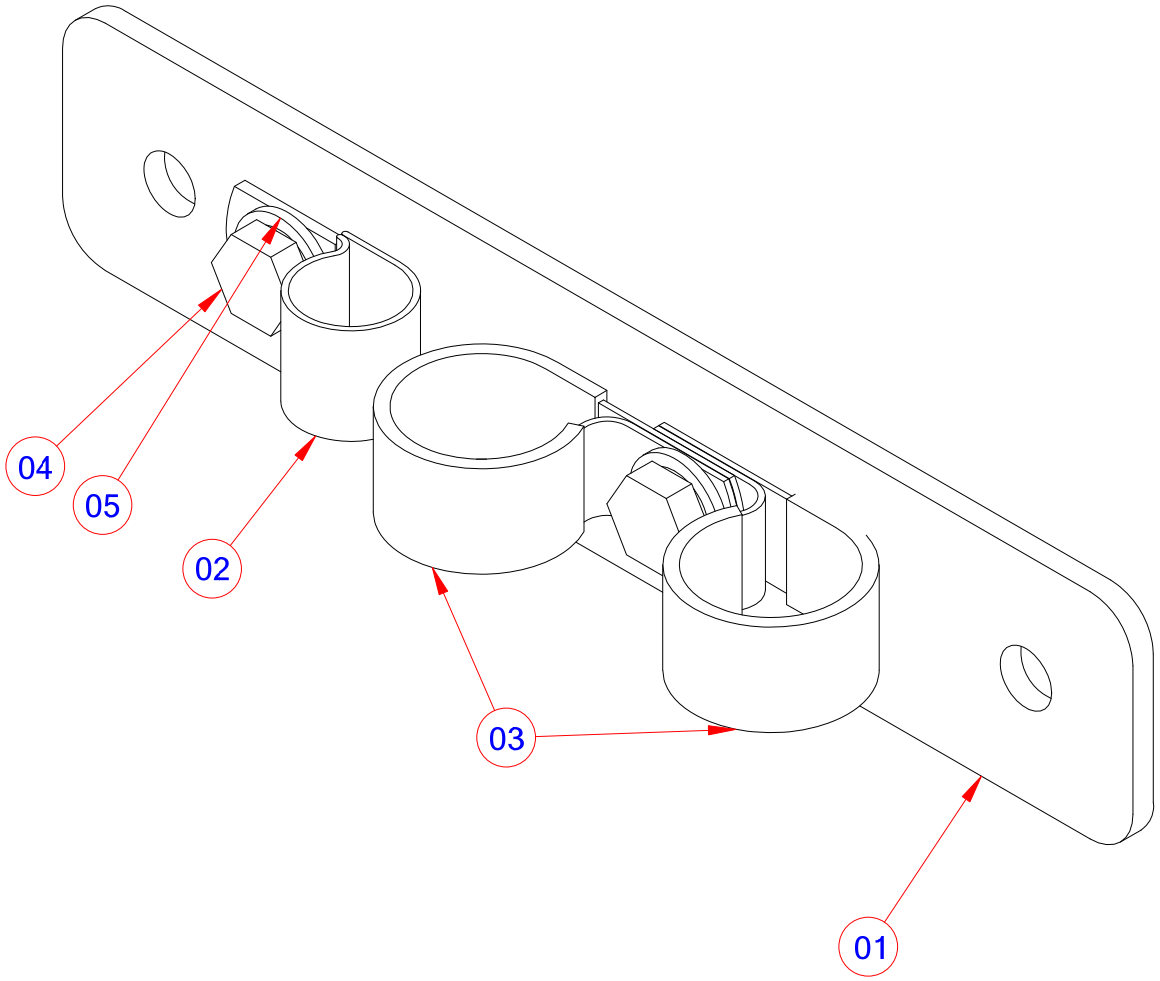
R101854F2
1 OF 1

CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R101854F2	CLAMP	
01	R101853D1	▪ BRACKET, Clamp Mount	1
02	32Z423D4	▪ CLAMP, Insulated	1
03	32Z423D21	▪ CLAMP	1
04	32Z423D26	▪ CLAMP	2
05	0825M10030	▪ BOLT, Hex Hd	2
06	3648M010	▪ WASHER, Hardened	4
07	2104M010	▪ NUT, Hex (Not Shown)	2

CLAMP



R101927F1
1 OF 1

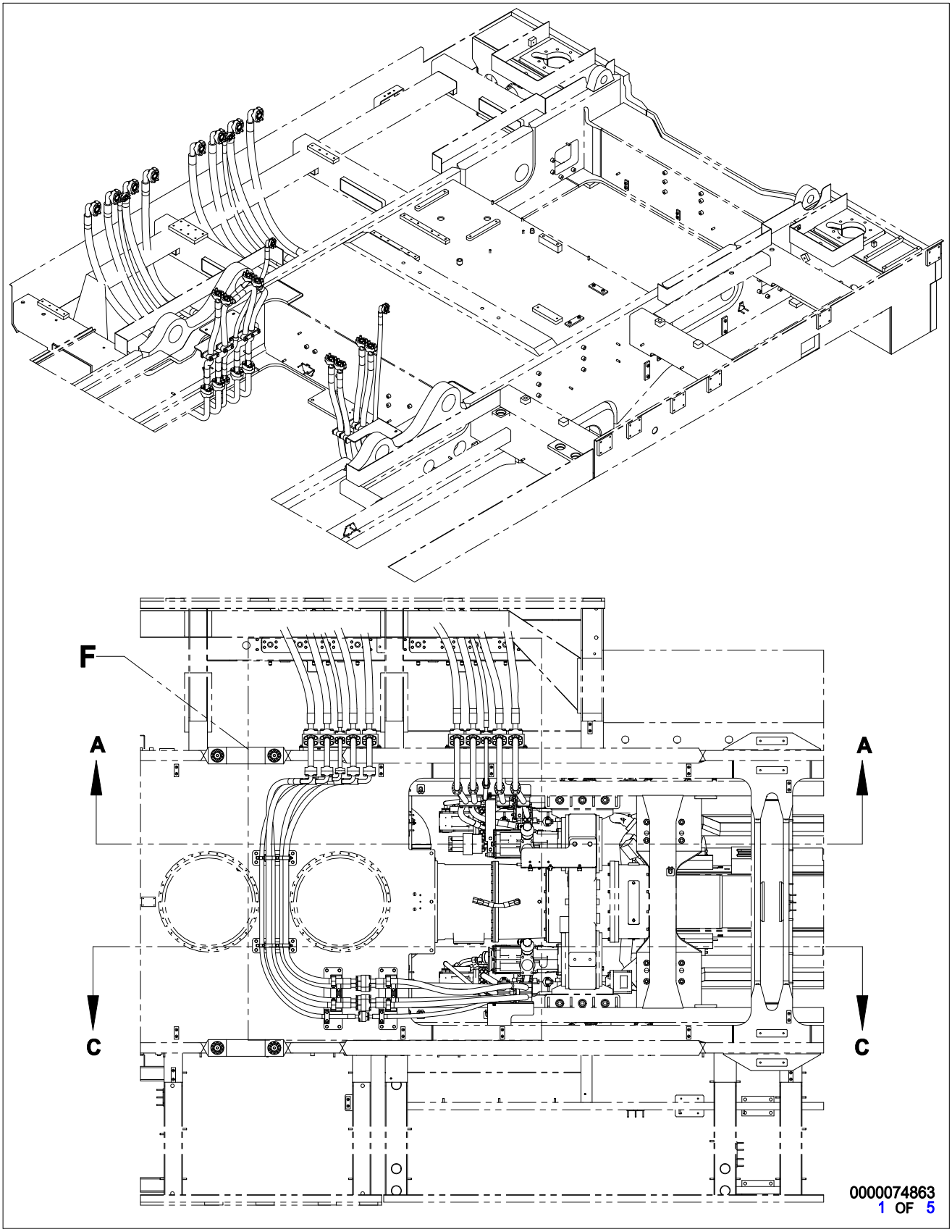
CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R101927F1	CLAMP	
01	R101926D1	▪ BRACKET, Clamp Mount	1
02	32Z423D21	▪ CLAMP	1
03	32Z423D26	▪ CLAMP	2
04	0825M10025	▪ BOLT, Hex Hd	2
05	3648M010	▪ WASHER, Hardened	4
06	2104M010	▪ NUT, Hex (Not Shown)	2

KOMATSU

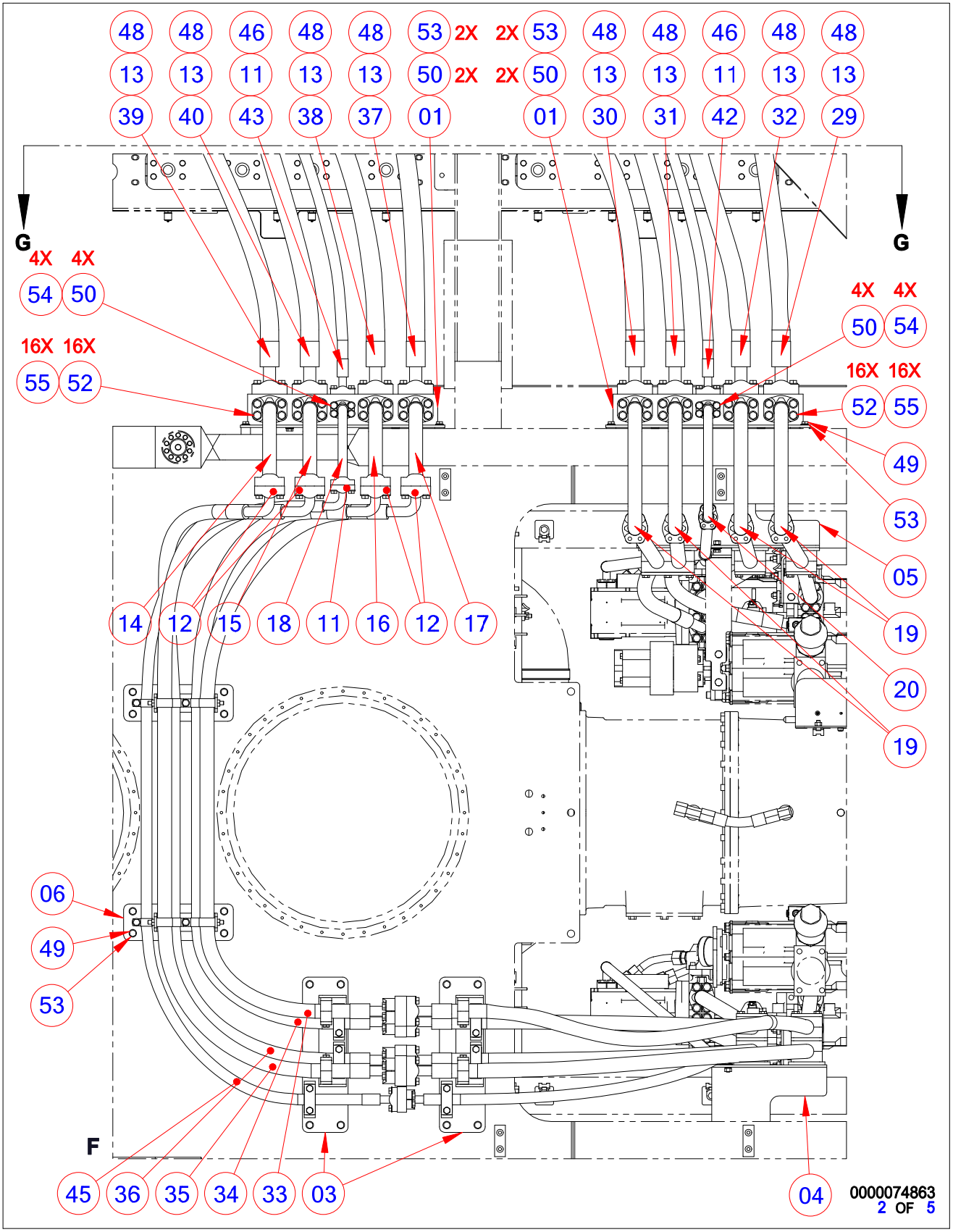
HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT



HYD ROUTING,HYDROSTATIC,DVTR INPUT

KOMATSU

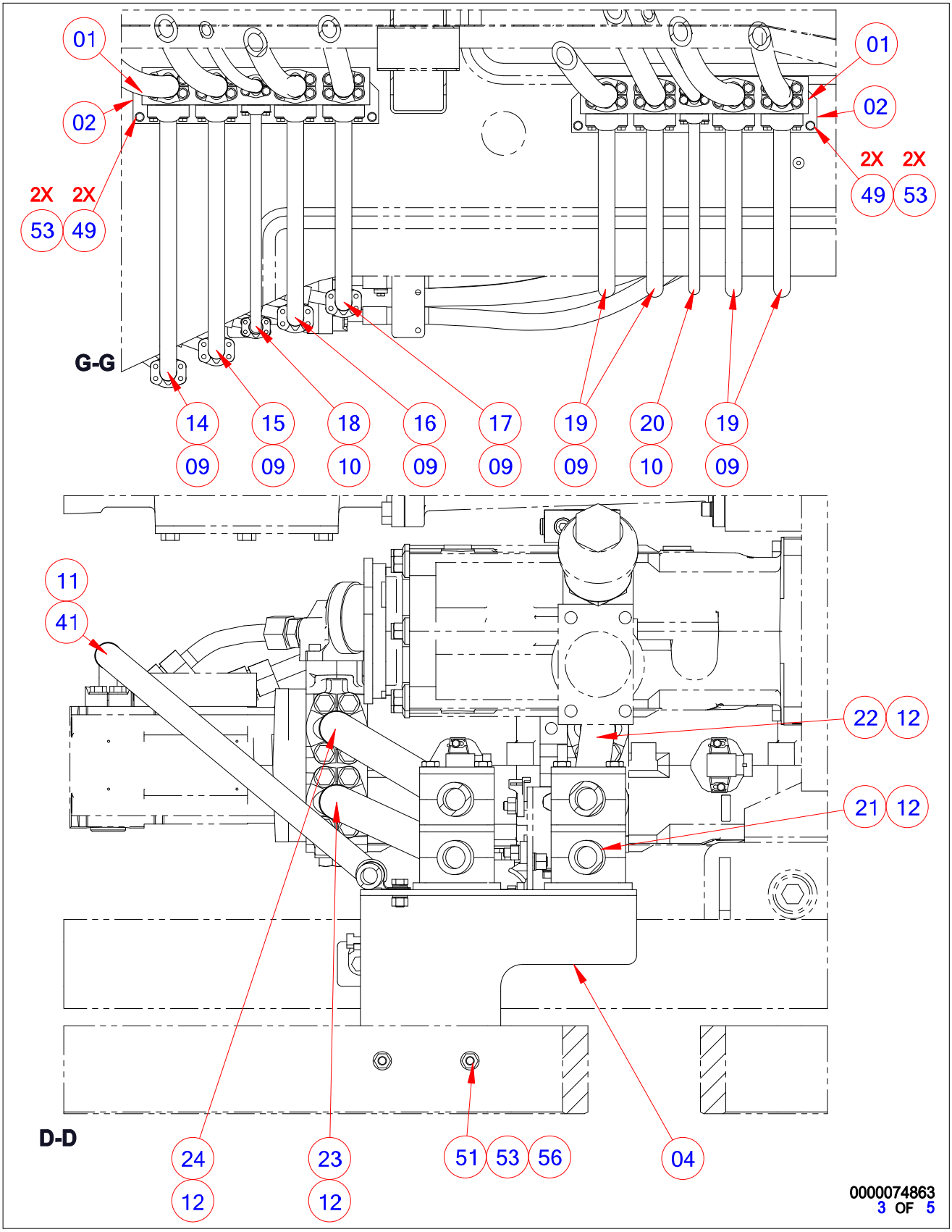
HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT



HYD ROUTING,HYDROSTATIC,DVTR INPUT

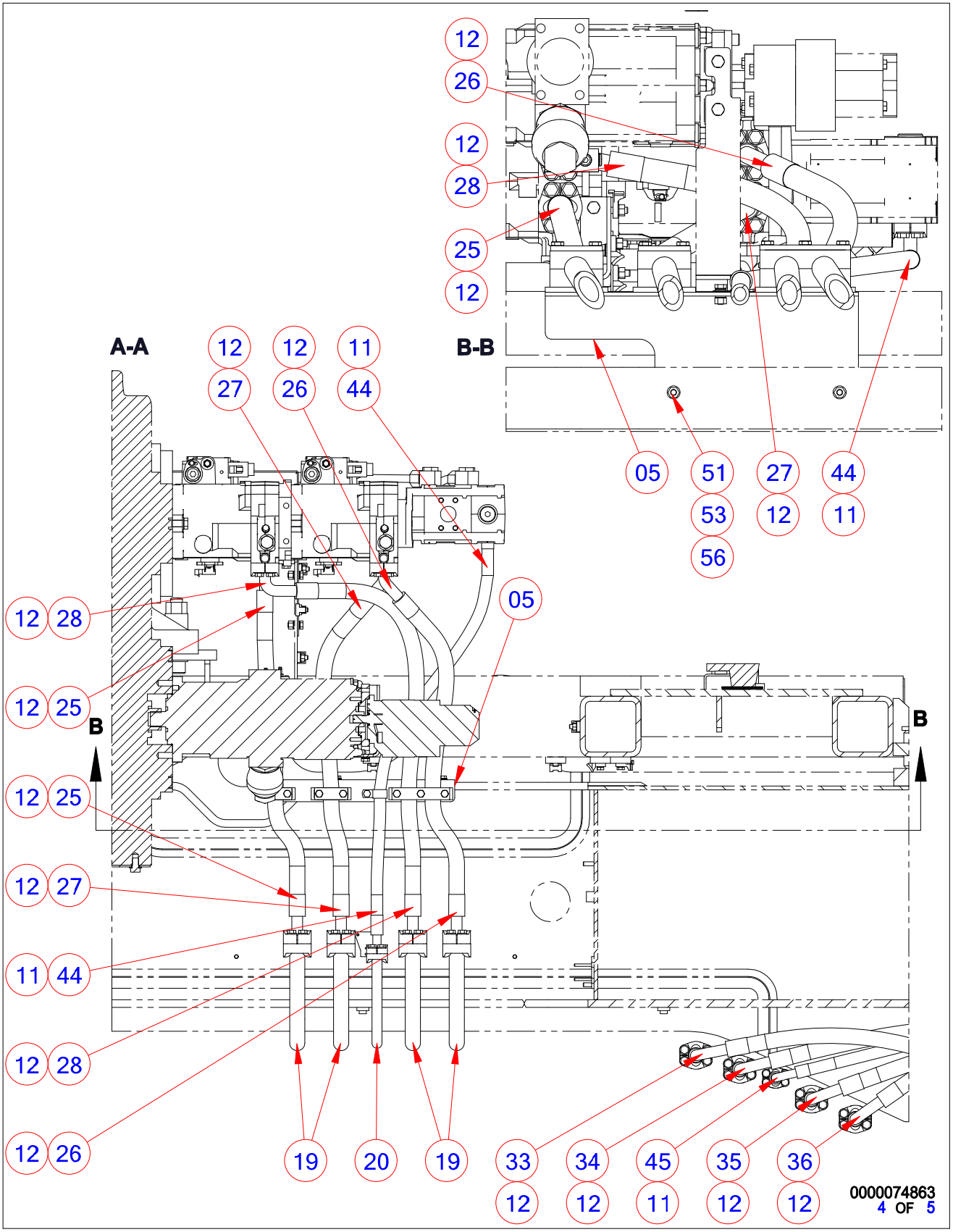
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HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT



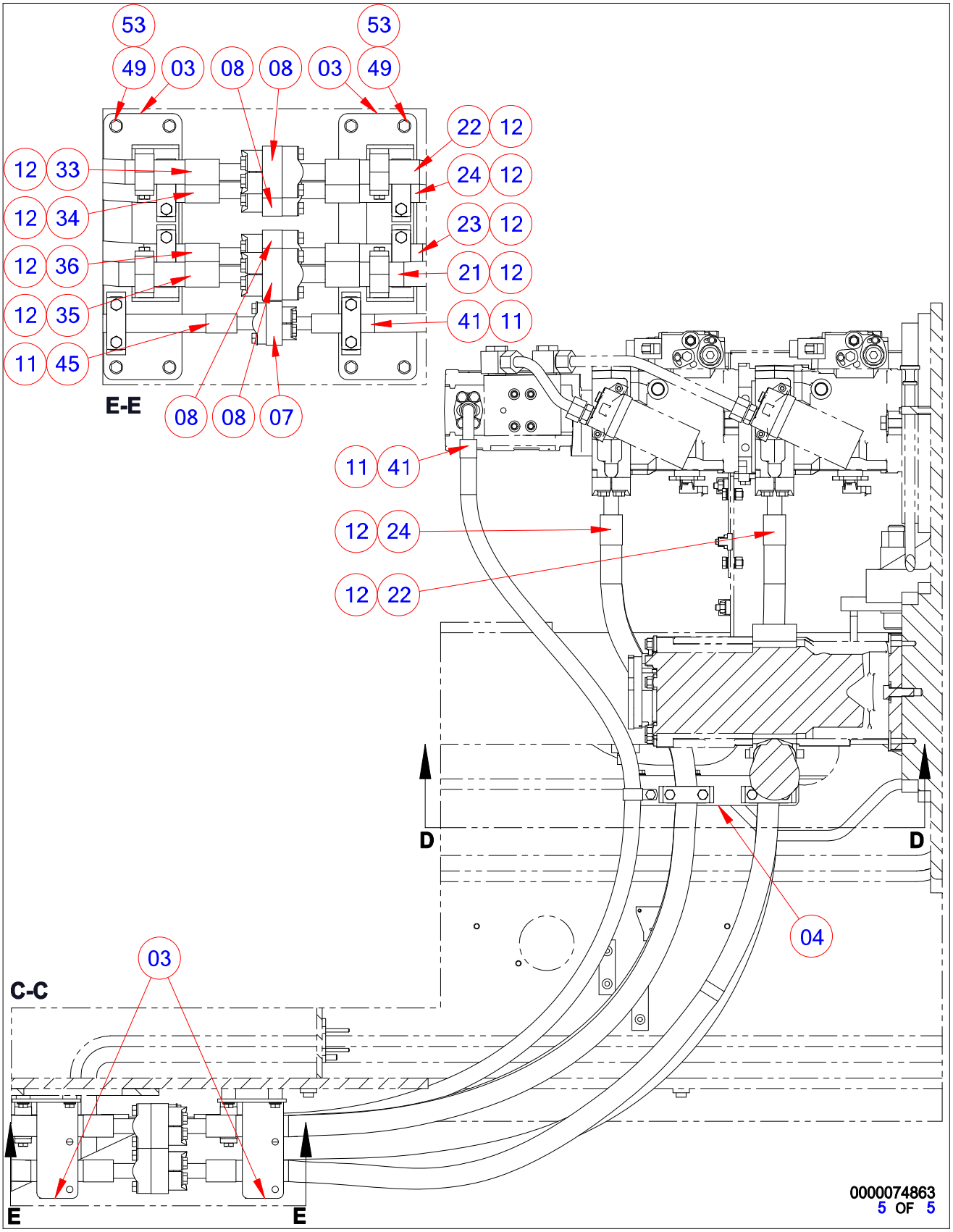
HYD ROUTING,HYDROSTATIC,DVTR INPUT

HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT



HYD ROUTING,HYDROSTATIC,DVTR INPUT

HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT



HYD ROUTING,HYDROSTATIC,DVTR INPUT

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HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT

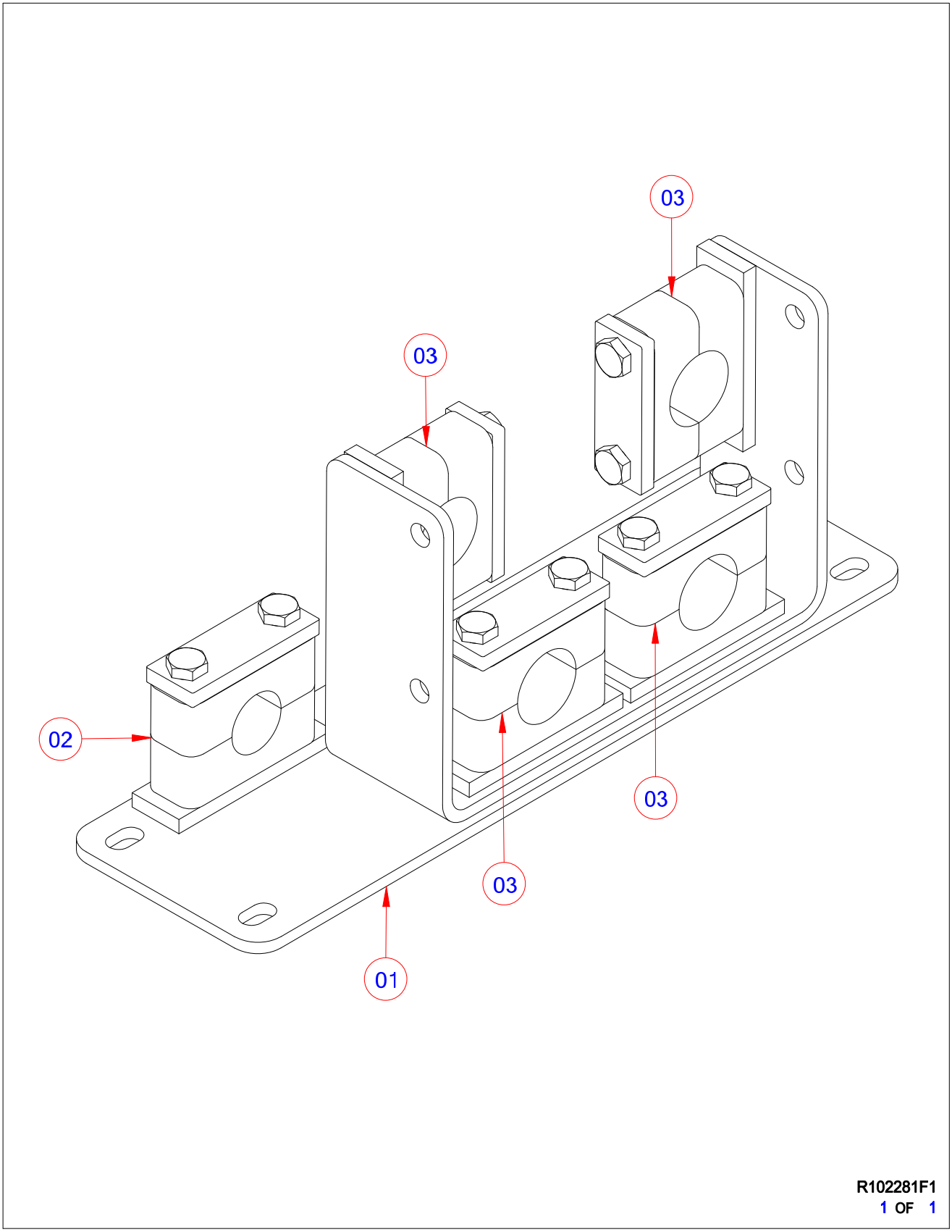
Item	Part No.	Description	Qty.	Page
	R101665F1	HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT		
01	R102296D1	· MANIFOLD, Diverter Input	2	
02	R102549D1	· MOUNTING PLATE	2	
03	R102281F1	· CLAMP	2	92
04	R102304F1	· CLAMP	1	94
05	R102344F1	· CLAMP	1	95
06	R102573F1	· CLAMP	2	96
07	R107489D1	· ADAPTER	1	
08	R102577D1	· ADAPTER	4	
09	45Z479D22	· O-RING	8	
10	45Z479D46	· O-RING	2	
11	R87258D2	· KIT, Split Flange	10	
12	R87259D3	· KIT, Split Flange	24	
13	R87259D4	· KIT, Split Flange	16	
14	R102284D1	· TUBE ASSEMBLY	1	
15	R102305D1	· TUBE ASSEMBLY	1	
16	R102306D1	· TUBE ASSEMBLY	1	
17	R102307D1	· TUBE ASSEMBLY	1	
18	R102285D1	· TUBE ASSEMBLY	1	
19	R102324D1	· TUBE ASSEMBLY	4	
20	R102341D1	· TUBE ASSEMBLY	1	
21	R89786T16D208	· HOSE ASSEMBLY	1	
22	R89786T16D211	· HOSE ASSEMBLY	1	
23	R89786T16D193	· HOSE ASSEMBLY	1	
24	R89786T16D194	· HOSE ASSEMBLY	1	
25	R89786T16D104	· HOSE ASSEMBLY	1	
26	R89787T16D109	· HOSE ASSEMBLY	1	
27	R89787T16D107	· HOSE ASSEMBLY	1	
28	R89788T16D127	· HOSE ASSEMBLY	1	
29	R89788T20D139	· HOSE ASSEMBLY	1	
30	R89788T20D143	· HOSE ASSEMBLY	1	
31	R89788T20D134	· HOSE ASSEMBLY	1	
32	R89788T20D137	· HOSE ASSEMBLY	1	
33	R89788T16D218	· HOSE ASSEMBLY	1	
34	R89788T16D217	· HOSE ASSEMBLY	1	
35	R89788T16D233	· HOSE ASSEMBLY	1	
36	R89788T16D227	· HOSE ASSEMBLY	1	
37	R89788T20D136	· HOSE ASSEMBLY	1	
38	R89788T20D138	· HOSE ASSEMBLY	1	
39	R89788T20D141	· HOSE ASSEMBLY	1	

KOMATSU

HYDRAULIC ROUTING, HYDROSTATIC DIVERTER INPUT

Item	Part No.	Description	Qty.	Page
40	R89788T20D136	· HOSE ASSEMBLY	1	
41	R89865T12D206	· HOSE ASSEMBLY	1	
42	R89865T12D128	· HOSE ASSEMBLY	1	
43	R89865T12D131	· HOSE ASSEMBLY	1	
44	R89865T12D123	· HOSE ASSEMBLY	1	
45	R89865T12D252	· HOSE ASSEMBLY	1	
46	R103138T20D14	· SLEEVE, Spiral Hose Wrap	1	
47	R103138T24D14	· SLEEVE, Spiral Hose Wrap	1	
48	R103138T28D40	· SLEEVE, Spiral Hose Wrap	1	
49	0825M10025	· BOLT, Hex Hd	20	
50	0825M10030	· BOLT, Hex Hd	12	
51	0825M10045	· BOLT, Hex Hd	4	
52	0825M12045	· BOLT, Hex Hd	32	
53	R86393D8	· WASHER, Nord Lock	32	
54	3648M010	· WASHER, Hardened	8	
55	3648M012	· WASHER, Hardened	32	
56	2104M010	· NUT, Hex	4	

CLAMP

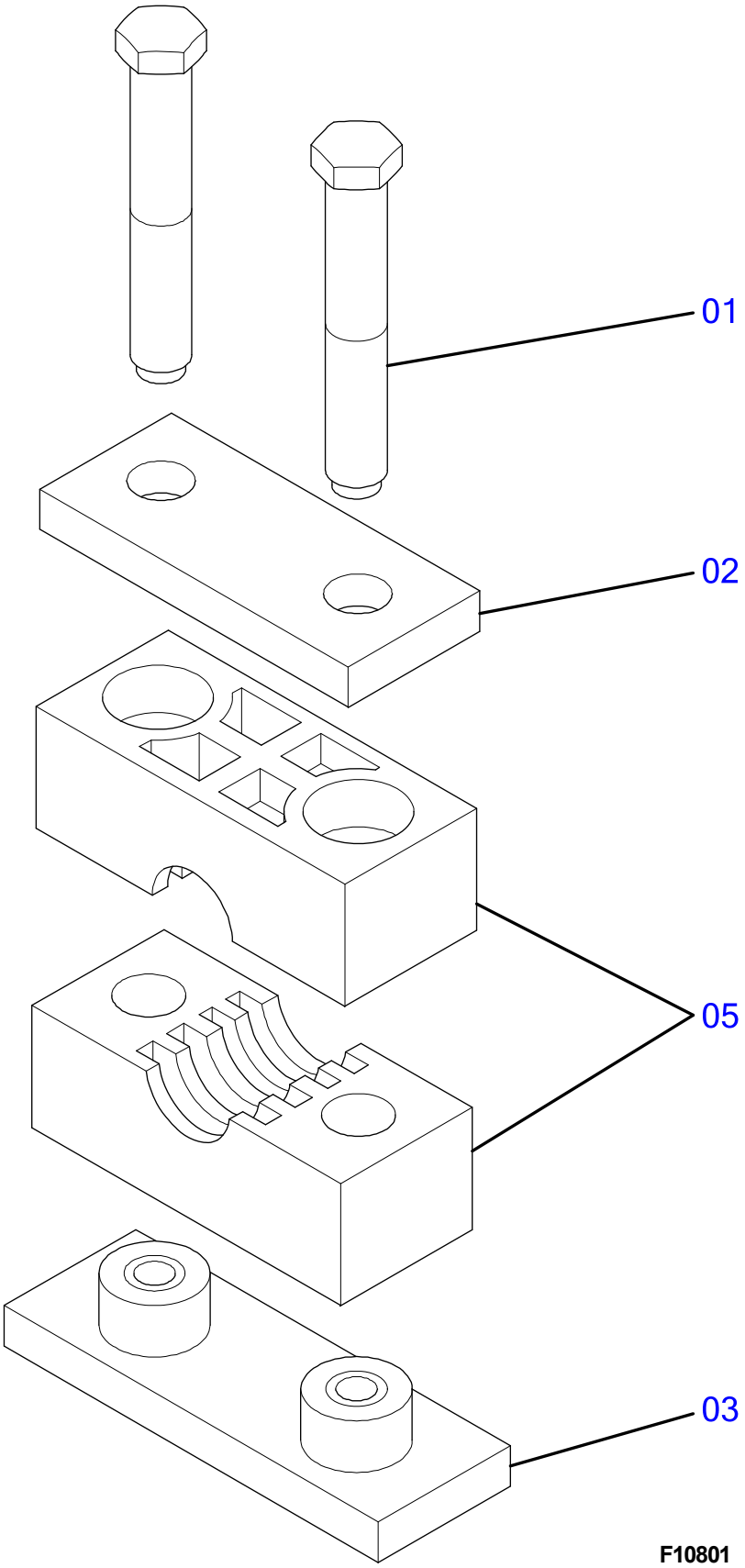


CLAMP

CLAMP

Item	Part No.	Description	Qty.	Page
	R102281F1	CLAMP		
01	R102585D1	▪ BRACKET	1	
02	R78174D24	▪ CLAMP	1	93
03	R78174D27	▪ CLAMP	4	

CLAMP

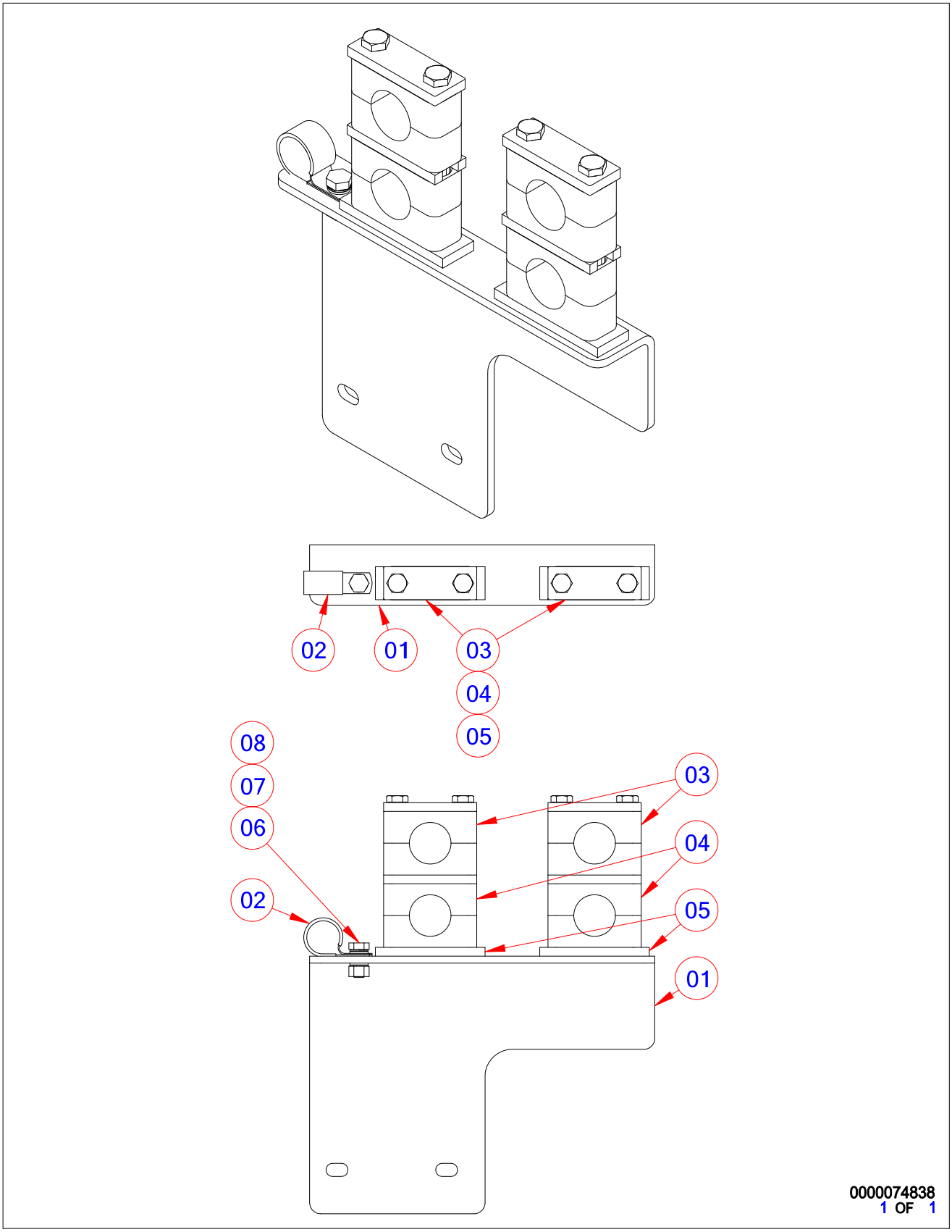


CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R78174D24	CLAMP	
01	NP1000Z15770	▪ BOLT	2
02	NP1000Z15769	▪ PLATE, Top	1
03	NP1000Z15768	▪ PLATE, Weld	1
04		NOT USED	
05		▪ CLAMP (NSS)	2

CLAMP

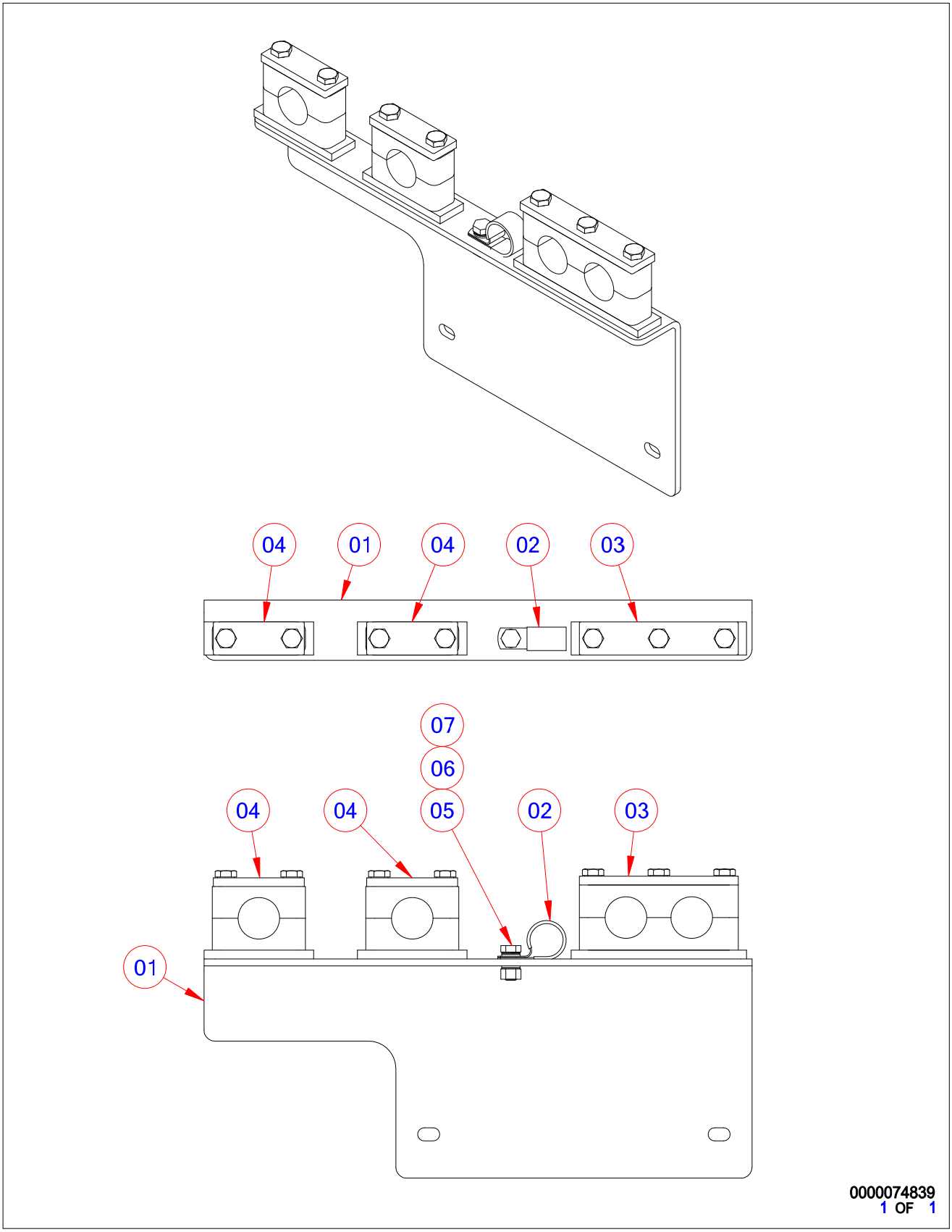


CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102304F1	CLAMP	
01	R102303D1	▪ BRACKET, Clamp Mount	1
02	32Z423D26	▪ CLAMP	1
03	R78953D27	▪ CLAMP, Hose, Weld Plates	2
04	R88404D27	▪ CLAMP	2
05	R88707D3	▪ PLATE, Clamp	2
06	0825M10025	▪ BOLT, Hex Hd	1
07	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	2
08	2104M010	▪ NUT, Hex	1

CLAMP



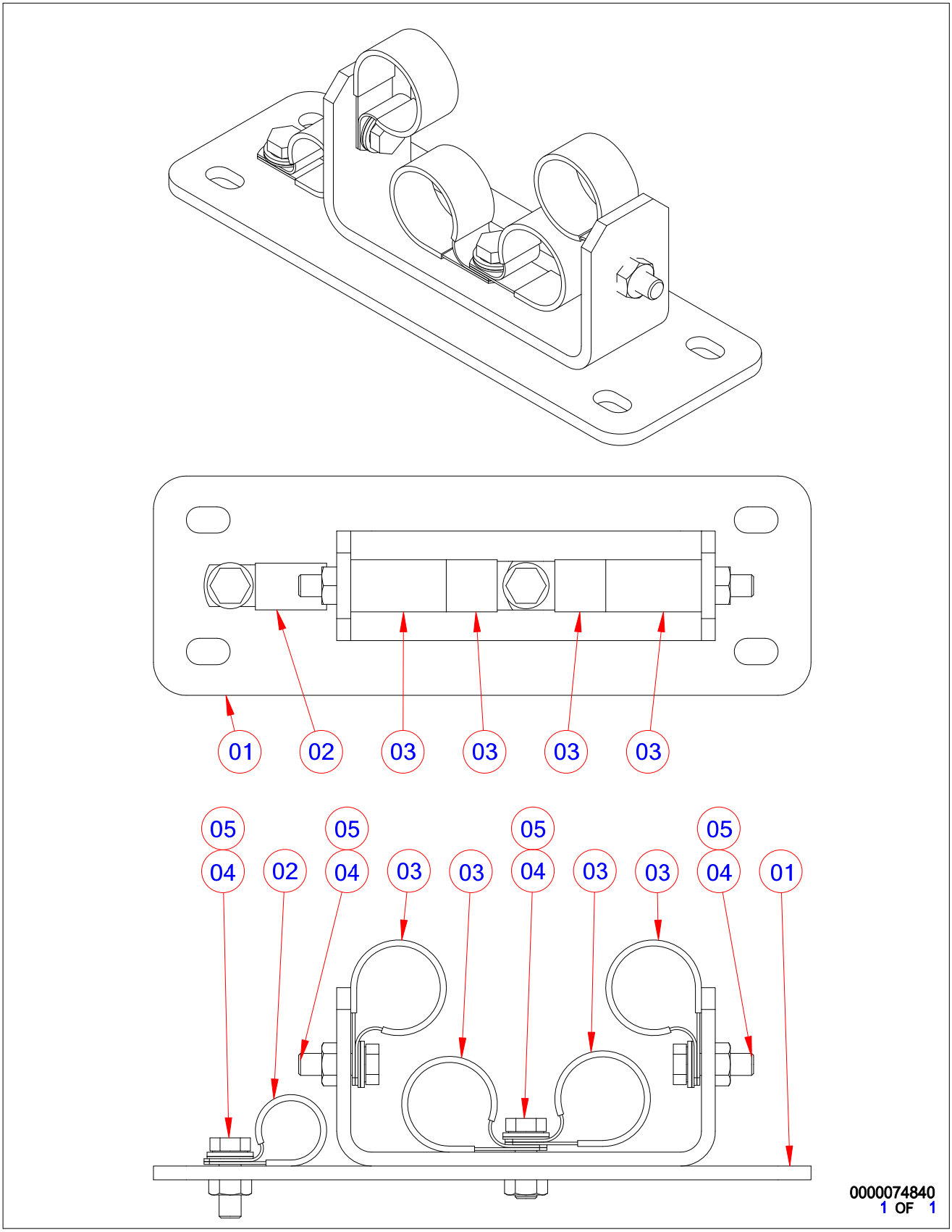
CLAMP

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CLAMP

Item	Part No.	Description	Qty.
	R102344F1	CLAMP	
01	R102345D1	▪ BRACKET, Clamp Mount	1
02	32Z423D26	▪ CLAMP	1
03	R78955D10	▪ CLAMP	1
04	R78174D27	▪ CLAMP	2
05	0825M10025	▪ BOLT, Hex Hd	1
06	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	2
07	2104M010	▪ NUT, Hex	1

CLAMP


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1 OF 1

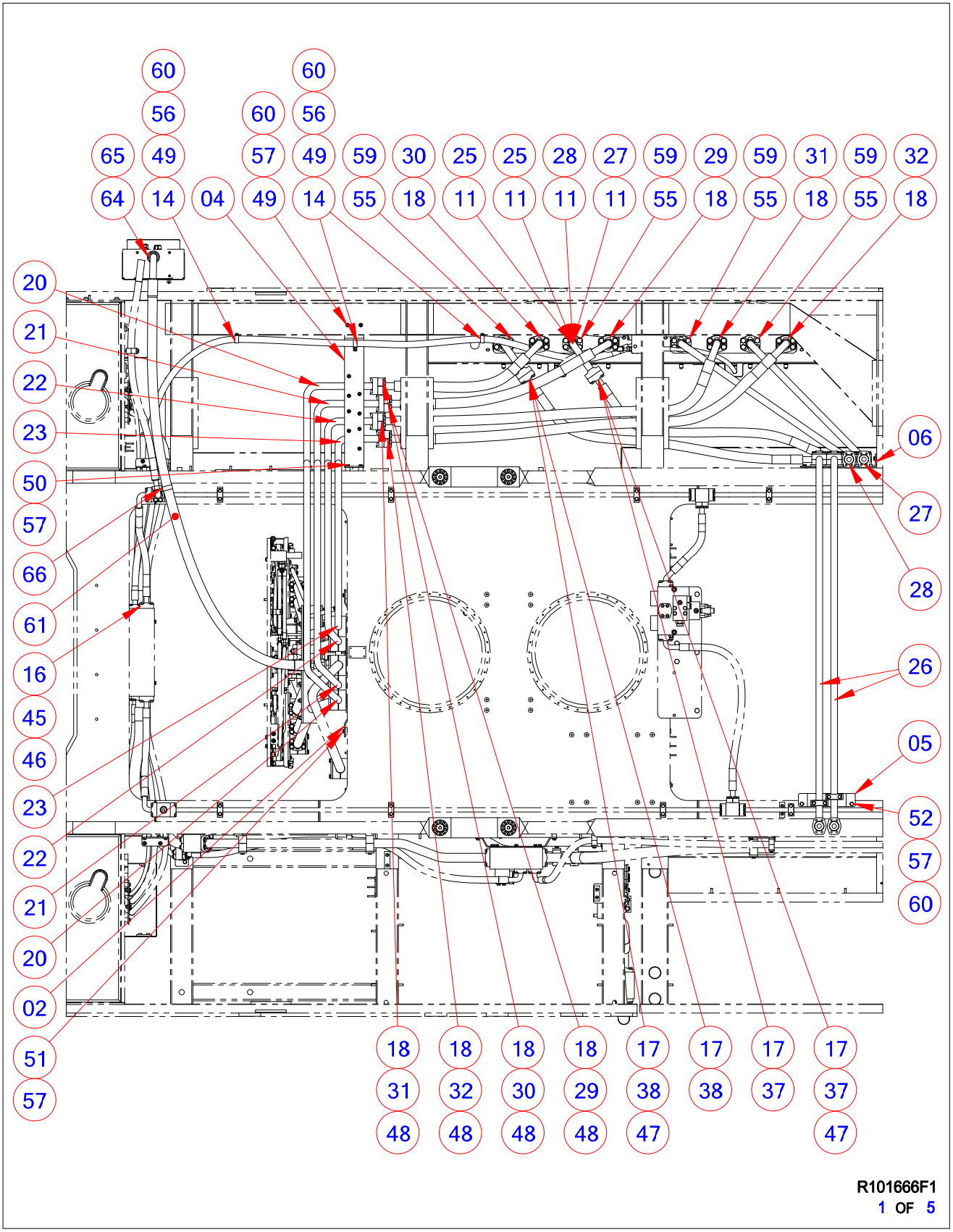
CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102573F1	CLAMP	
01	R102282D1	▪ BRACKET, Clamp Mount	1
02	32Z423D24	▪ CLAMP, Insulated	1
03	32Z423D30	▪ CLAMP	4
04	0825M10030	▪ BOLT, Hex Hd	4
05	R86393D8	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4

KOMATSU

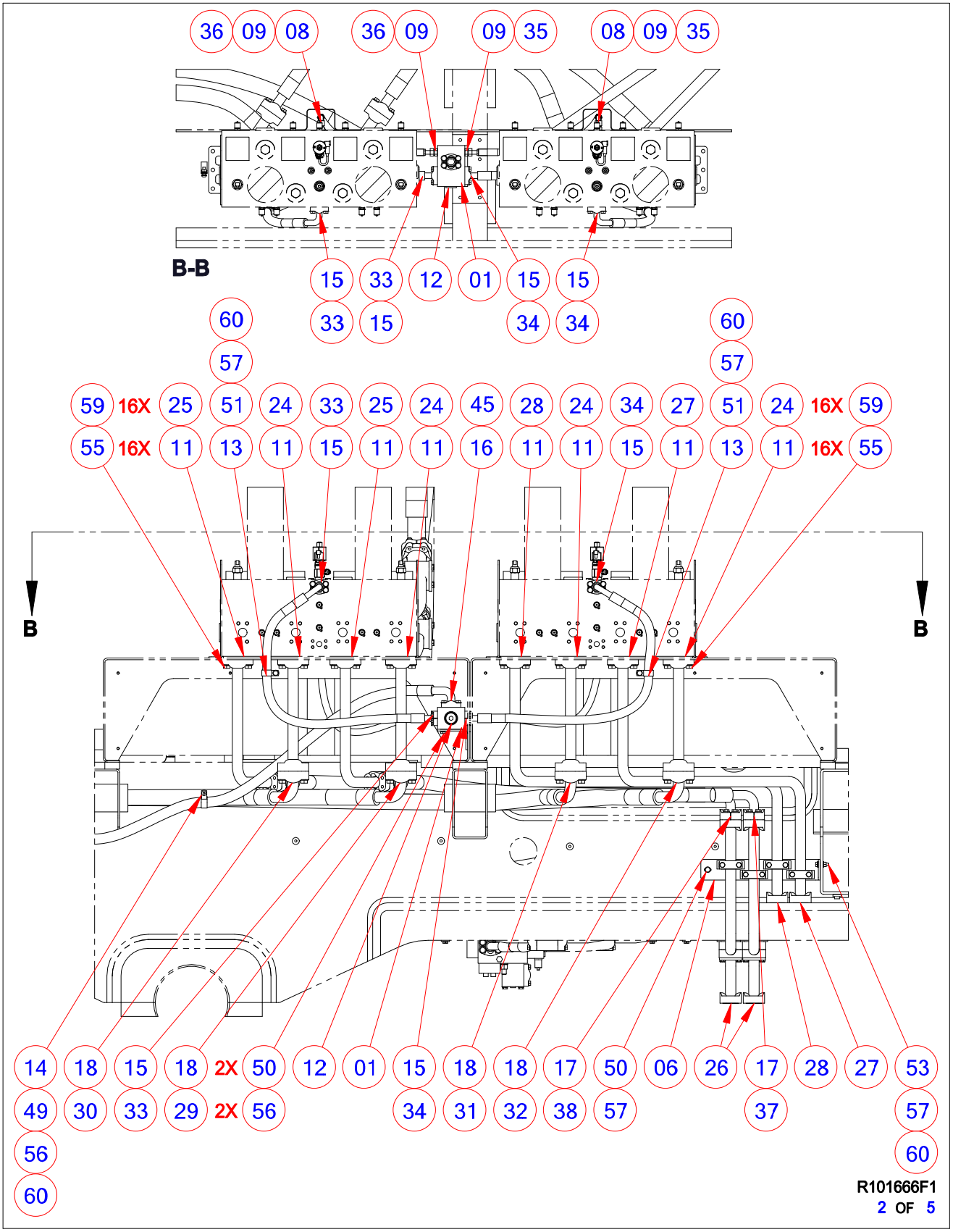
HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT



HYD ROUTING,HYDROSTATIC,DVTR OUTPUT

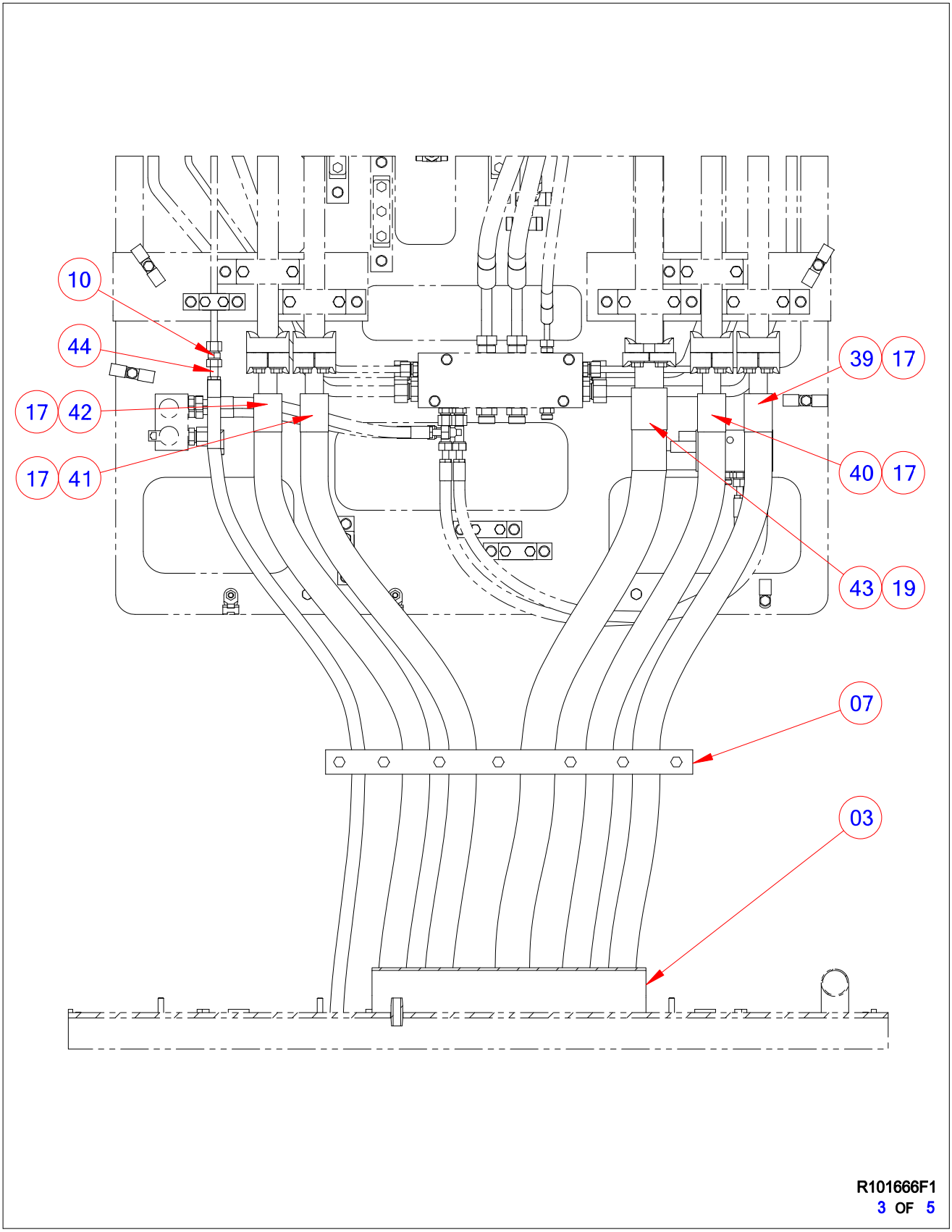
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HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT



HYD ROUTING,HYDROSTATIC,DVTR OUTPUT

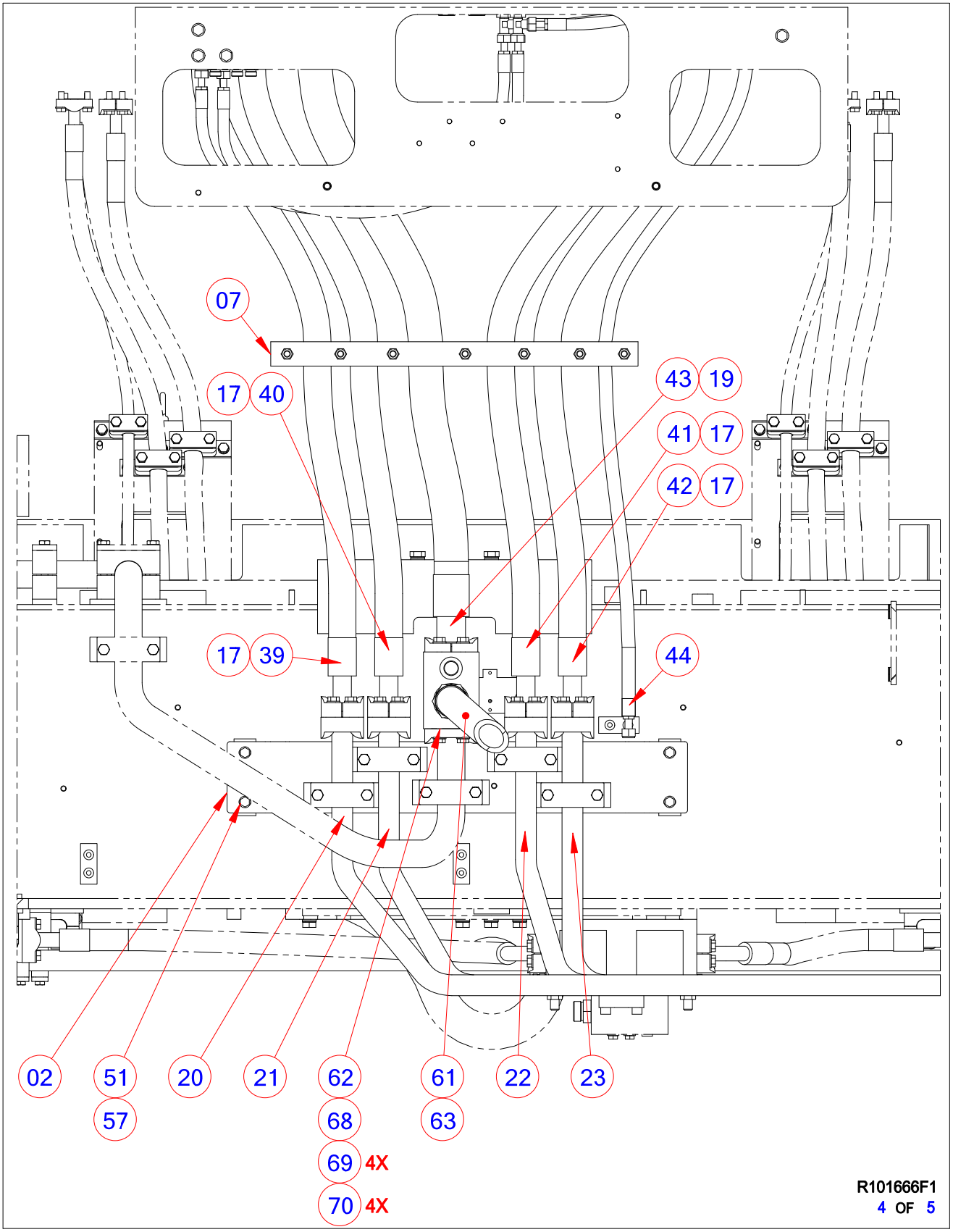
HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT



HYD ROUTING,HYDROSTATIC,DVTR OUTPUT

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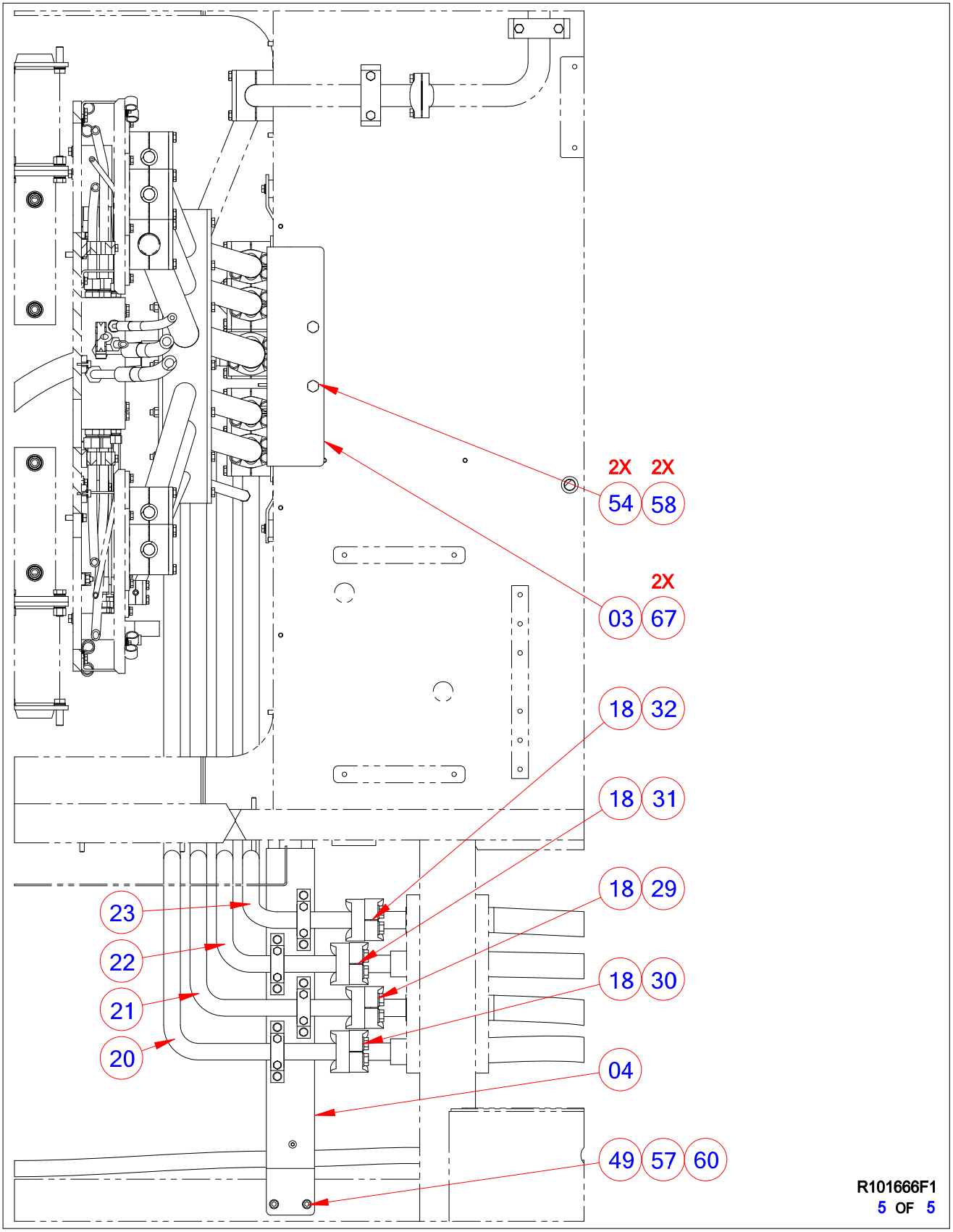
HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT



HYD ROUTING,HYDROSTATIC,DVTR OUTPUT

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HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT



HYD ROUTING,HYDROSTATIC,DVTR OUTPUT

KOMATSU

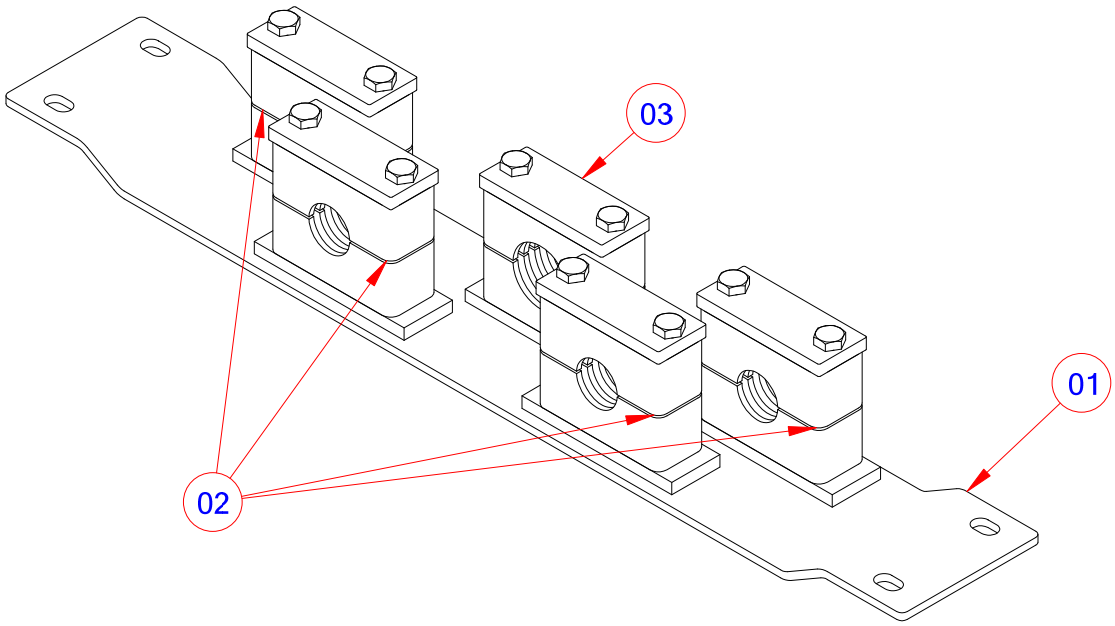
HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT

Item	Part No.	Description	Qty.	Page
	R101666F1	HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT		
01	R102280D1	• MANIFOLD, Diverter Drain	1	
02	R98332D1	• BRACKET ASSEMBLY	1	98
03	R104620D1	• GUARD, Hose	1	
04	R102264F1	• CLAMP	1	99
05	R102272F1	• CLAMP	1	100
06	R102319F1	• CLAMP	1	101
07	R98340D1	• CLAMP, Machined	1	102
08	R89793D2	• CONNECTOR, ISO	2	
09	R89778D4	• CONNECTOR, ISO	4	
10	R89770D2	• CONNECTOR, ISO	1	
11	45Z479D23	• O-RING	8	
12	R89216D10	• PLUG	1	
13	32Z423D26	• CLAMP, Insulated	2	
14	32Z423D4	• CLAMP, Insulated	3	
15	R87258D2	• KIT, Split Flange	4	
16	R87258D3	• KIT, Split Flange	2	
17	R87259D4	• KIT, Split Flange	12	
18	R87259D5	• KIT, Split Flange	8	
19	R87258D6	• KIT, Split Flange	2	
20	R102250D1	• TUBE ASSEMBLY	1	
21	R102252D1	• TUBE ASSEMBLY	1	
22	R102253D1	• TUBE ASSEMBLY	1	
23	R102254D1	• TUBE ASSEMBLY	1	
24	R102256D1	• TUBE ASSEMBLY	4	
25	R102270D1	• TUBE ASSEMBLY	2	
26	R102269D1	• TUBE ASSEMBLY	2	
27	R102275D1	• TUBE ASSEMBLY	1	
28	R102276D1	• TUBE ASSEMBLY	1	
29	R89788T24D137	• HOSE ASSEMBLY	1	
30	R89788T24D102	• HOSE ASSEMBLY	1	
31	R89788T24D220	• HOSE ASSEMBLY	1	
32	R89788T24D248	• HOSE ASSEMBLY	1	
33	R89791T12D120	• HOSE ASSEMBLY	1	
34	R89791T12D122	• HOSE ASSEMBLY	1	
35	R89780T08M20D85	• HOSE ASSEMBLY	1	
36	R89780T08M20D83	• HOSE ASSEMBLY	1	
37	R89788T20D157	• HOSE ASSEMBLY	1	
38	R89788T20D188	• HOSE ASSEMBLY	1	
39	R89786T20D153	• HOSE ASSEMBLY	1	

HYDRAULIC ROUTING, HYDROSTATIC DIVERTER OUTPUT

Item	Part No.	Description	Qty.	Page
40	R89786T20D152	· HOSE ASSEMBLY	1	
41	R89786T20D154	· HOSE ASSEMBLY	1	
42	R89786T20D155	· HOSE ASSEMBLY	1	
43	R89789T32D139	· HOSE ASSEMBLY	1	
44	R89780T08M20D156	· HOSE ASSEMBLY	1	
45	R89791T16D442	· HOSE ASSEMBLY	1	
46	R103138T24D18	· SLEEVE, Spiral Hose Wrap	1	
47	R103138T28D13	· SLEEVE, Spiral Hose Wrap	1	
48	R103138T36D25	· SLEEVE, Spiral Hose Wrap	1	
49	0836M10030	· SCREW, Button Hd Cap	5	
50	0825M10025	· BOLT, Hex Hd	5	
51	0825M10030	· BOLT, Hex Hd	6	
52	0825M10045	· BOLT, Hex Hd	2	
53	0825M10040	· BOLT, Hex Hd	1	
54	0825M16065	· BOLT, Hex Hd	2	
55	0825M16055	· BOLT, Hex Hd	32	
56	R82264D20	· LOCKWASHER SET (The set includes two washers necessary for application.)	8	
57	R86393D8	· WASHER, Nord Lock	21	
58	R82264D10	· LOCKWASHER SET (The set includes two washers necessary for application.)	2	
59	3648M016	· WASHER, Hardened	32	
60	2104M010	· NUT, Hex	10	
61	R89909T24M52D290	· HOSE ASSEMBLY	1	
62	R104290D1	· BLOCK, Run	1	
63	R89777D20	· CONNECTOR, ISO	1	
64	R89749D8	· CONNECTOR, ISO	1	
65	R89771D12	· CONNECTOR, ISO	1	
66	32Z423D35	· CLAMP, Insulated	1	
67	R104618D1	· SPACER	2	
68	45Z479D24	· O-RING	1	
69	3648M012	· WASHER, Hardened	4	
70	0825M12035	· BOLT, Hex Hd	4	

ASSEMBLY, BRACKET

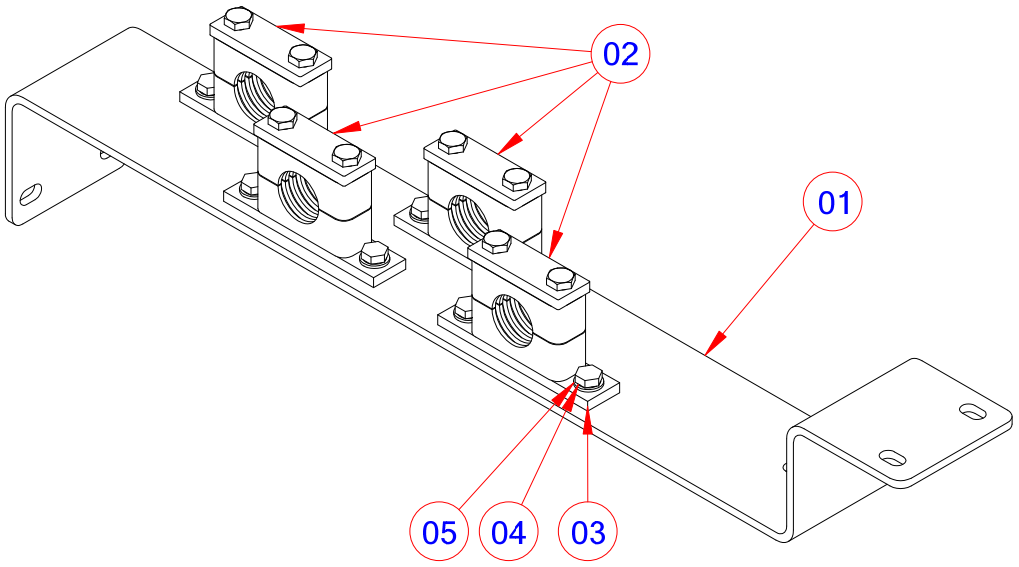


R98332D1
1 OF 1

ASSEMBLY, BRACKET

Item	Part No.	Description	Qty.
	R98332D1	ASSEMBLY, BRACKET	
01	R98332Y1	▪ PLATE	1
02	R78173D17	▪ CLAMP	4
03	R78173D20	▪ CLAMP	1

CLAMP



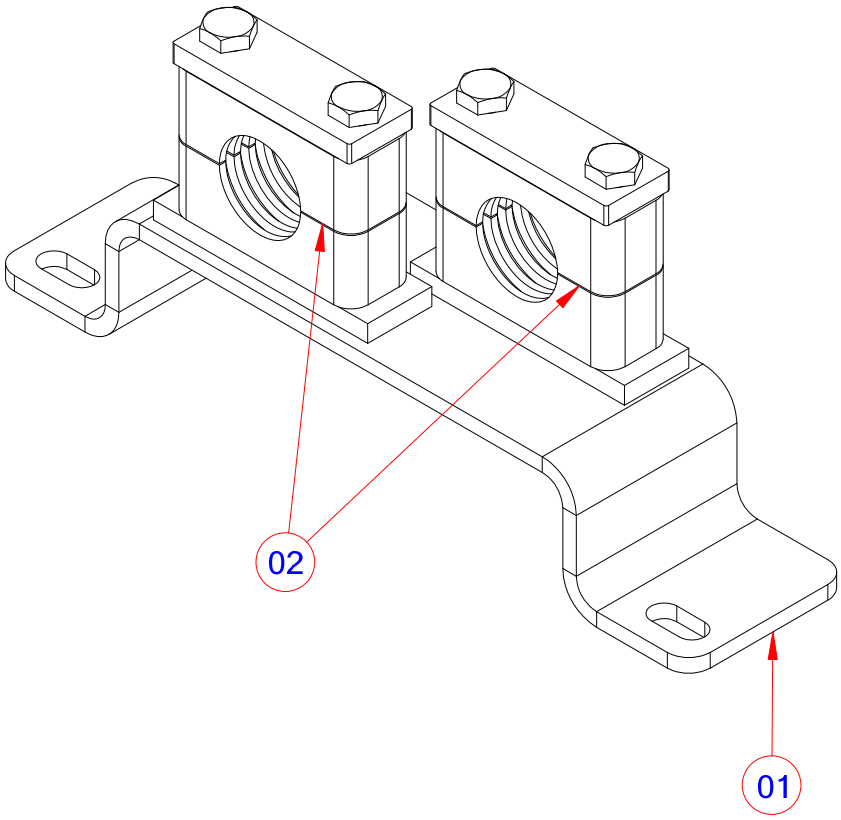
R102264F1
1 OF 1

CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102264F1	CLAMP	
01	R102263D1	▪ BRACKET, Clamp	1
02	R78952D15	▪ CLAMP	4
03	R88880D3	▪ BASE, Clamp	4
04	0825M10030	▪ BOLT, Hex Hd	8
05	3612M010	▪ WASHER, Plain	16
06	2104M010	▪ NUT, Hex (Not Shown)	8

CLAMP



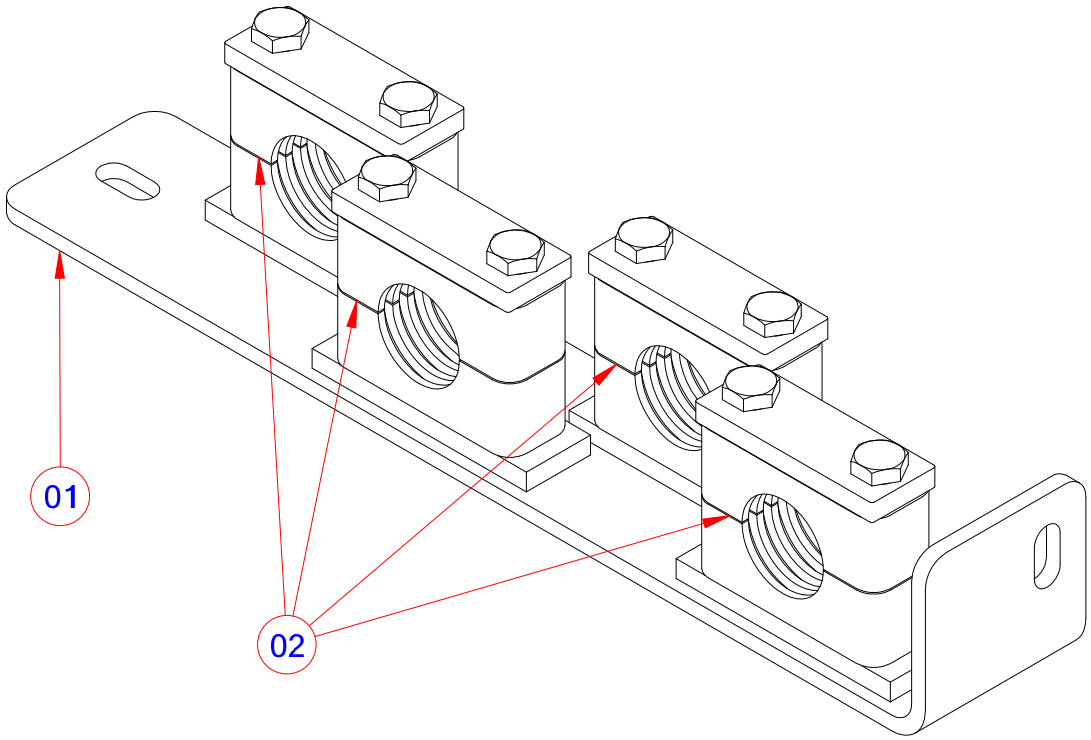
R102272F1
1 OF 1

CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102272F1	CLAMP	
01	R102273D1	▪ BRACKET, Clamp Mount	1
02	R78173D15	▪ CLAMP	2

CLAMP



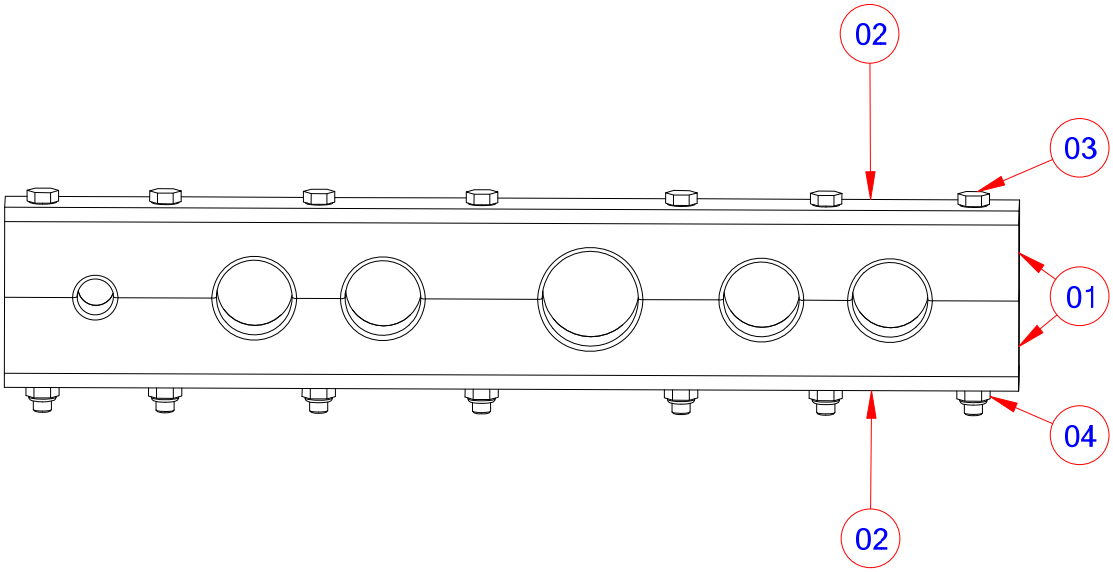
R102319F1
1 OF 1

CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102319F1	CLAMP	
01	R102320D1	▪ BRACKET, Clamp Mount	1
02	R78173D15	▪ CLAMP	4

CLAMP, MACHINED



R98340D1
1 OF 1

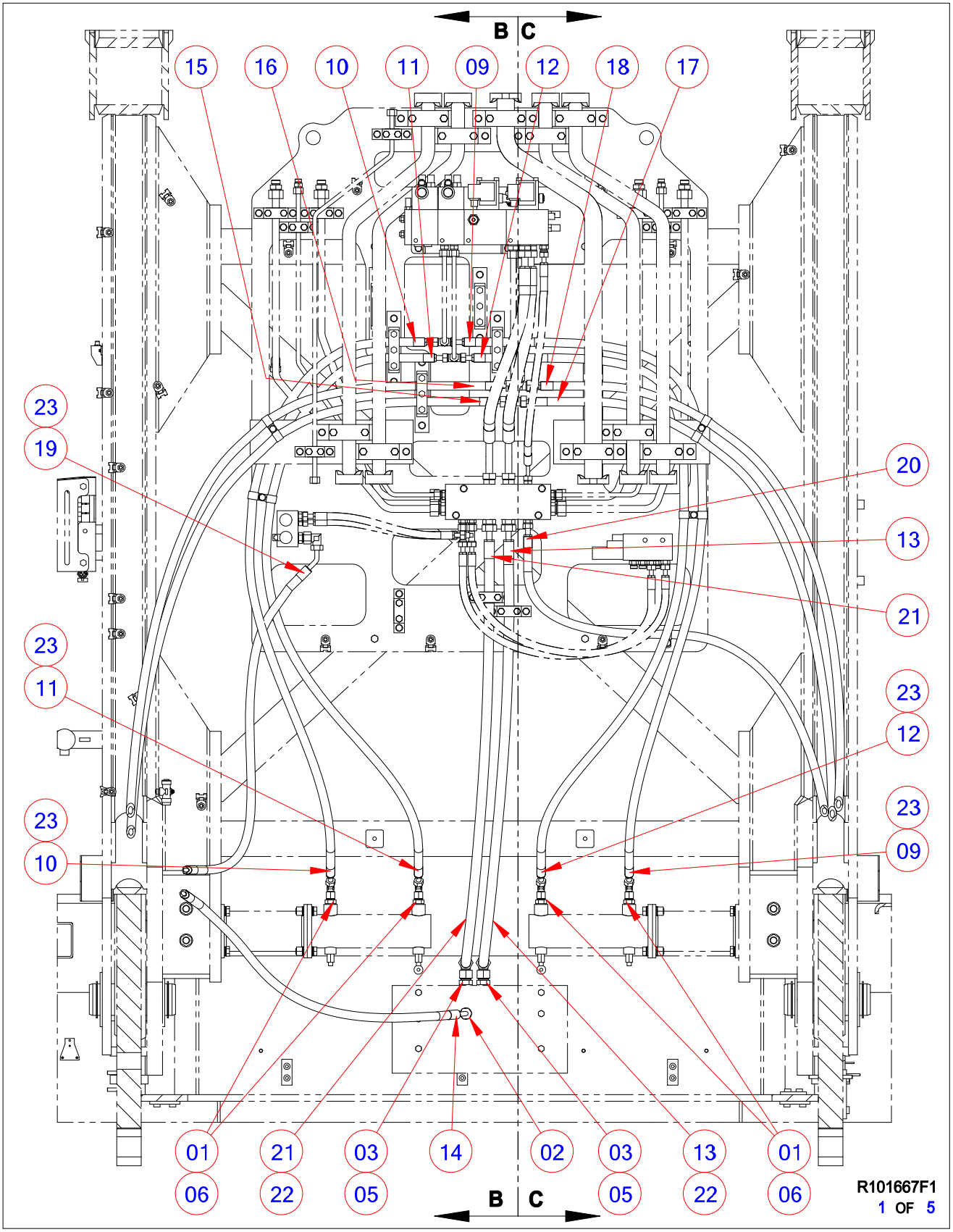
CLAMP, MACHINED

CLAMP, MACHINED

Item	Part No.	Description	Qty.
	R98340D1	CLAMP, MACHINED	
01	R98340Y1	▪ BODY, Clamp	1
02	R98340Y2	▪ PLATE	2
03	0825M12140	▪ BOLT, Hex Hd	7
04	20Z1659D13	▪ NUT, Lock	7

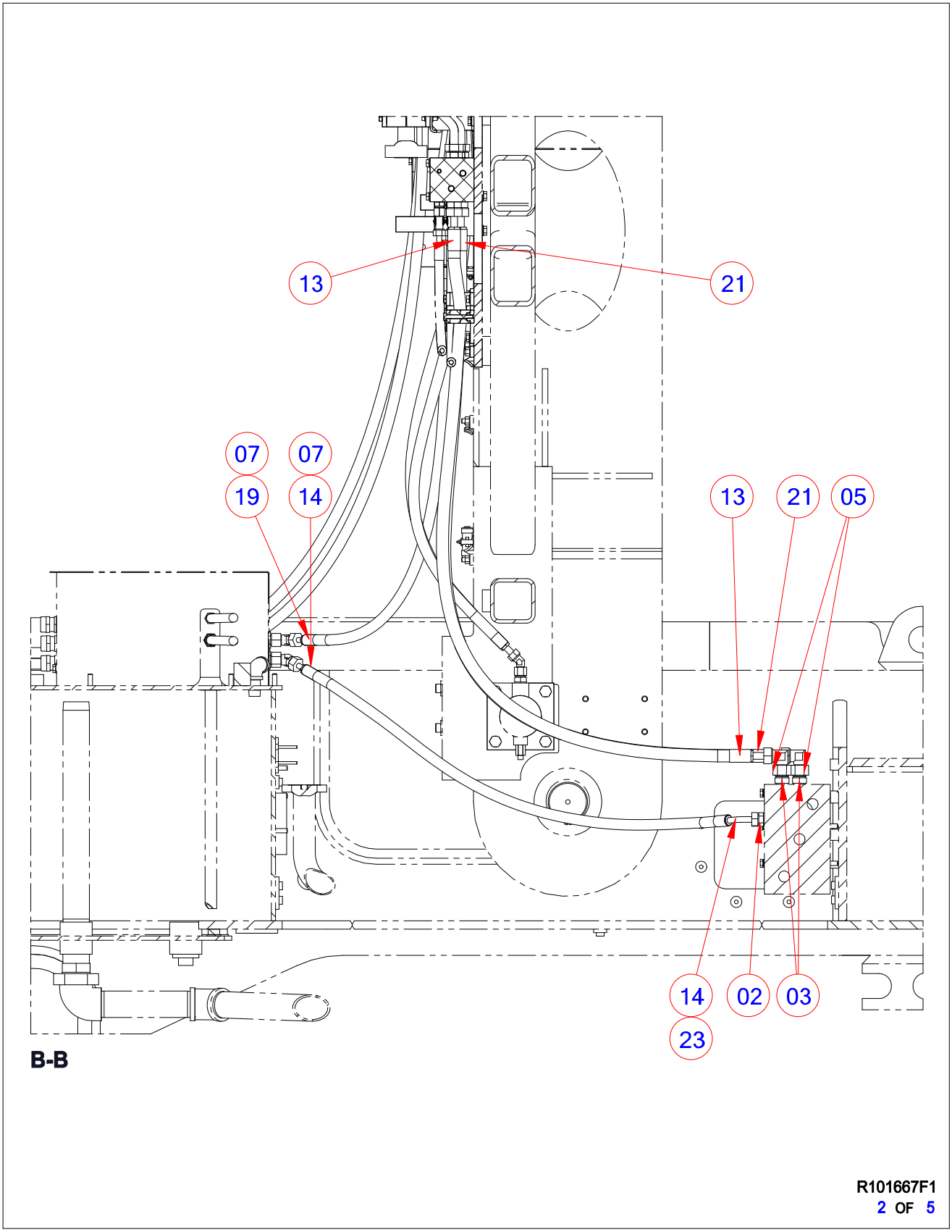
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HYDRAULIC ROUTING, MAST VALVE ASSEMBLY



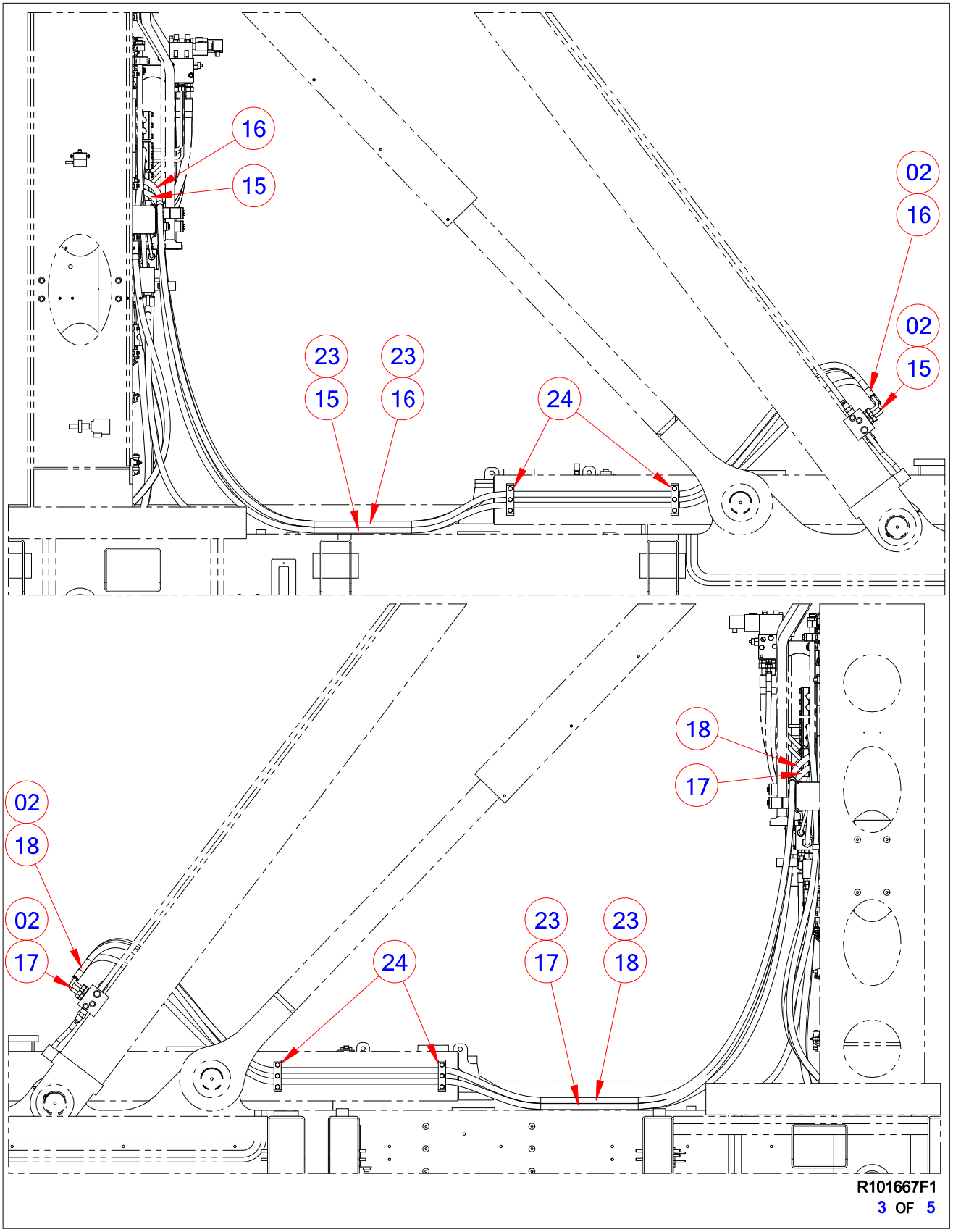
HYD ROUTING,MAST VALVE ASSY

HYDRAULIC ROUTING, MAST VALVE ASSEMBLY



HYD ROUTING,MAST VALVE ASSY

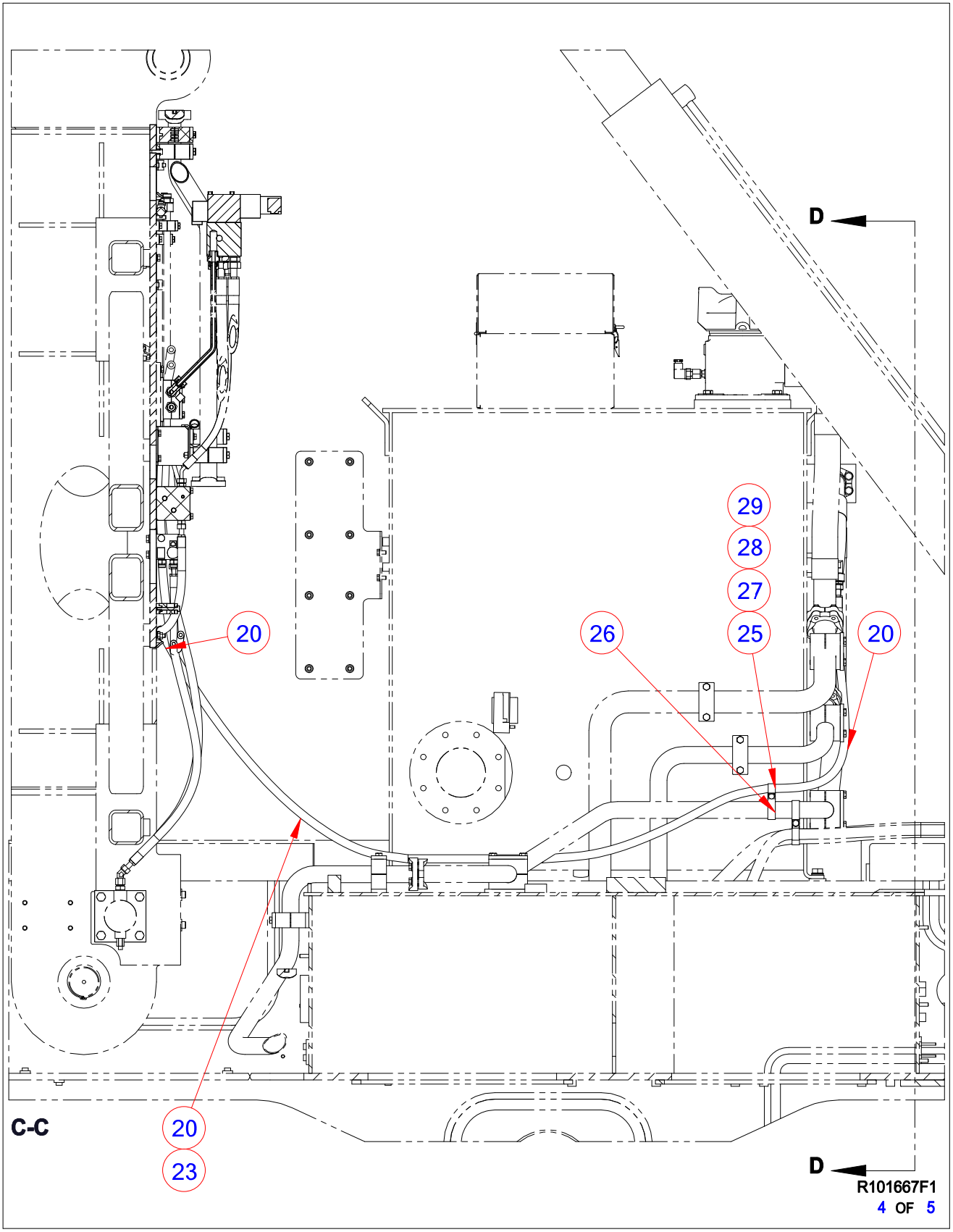
HYDRAULIC ROUTING, MAST VALVE ASSEMBLY



HYD ROUTING,MAST VALVE ASSY

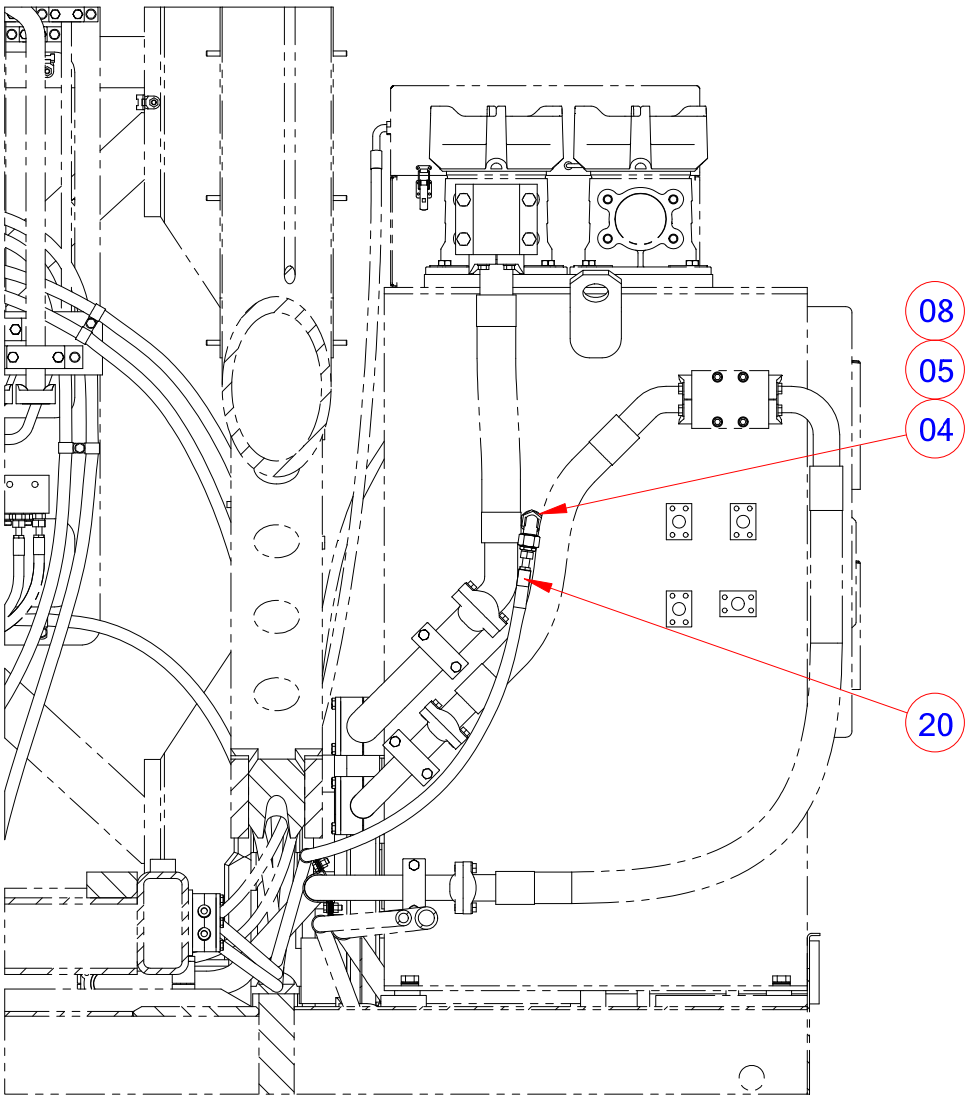
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HYDRAULIC ROUTING, MAST VALVE ASSEMBLY



HYD ROUTING,MAST VALVE ASSY

HYDRAULIC ROUTING, MAST VALVE ASSEMBLY



D-D

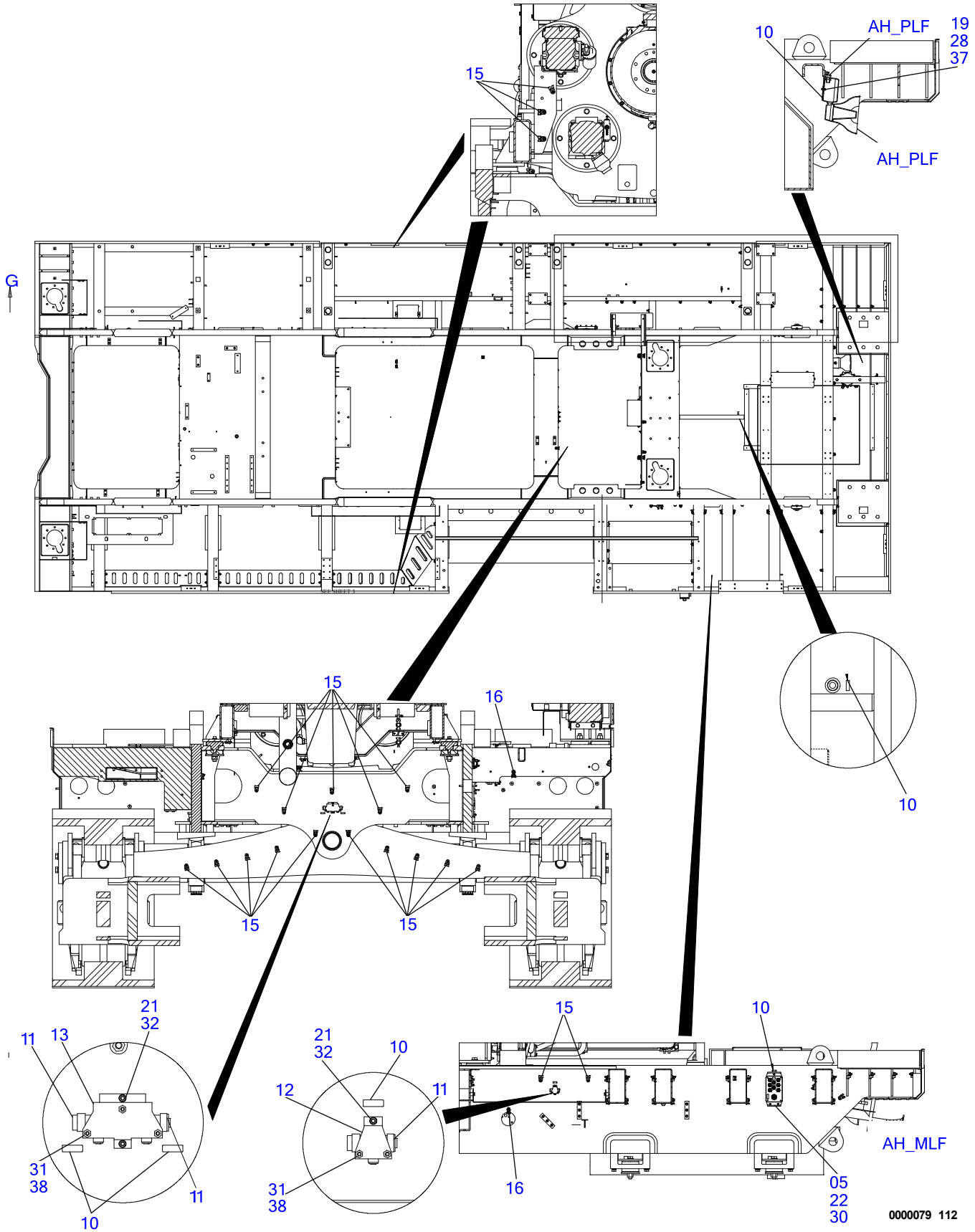
R101667F1
5 OF 5

HYD ROUTING,MAST VALVE ASSY

HYDRAULIC ROUTING, MAST VALVE ASSEMBLY

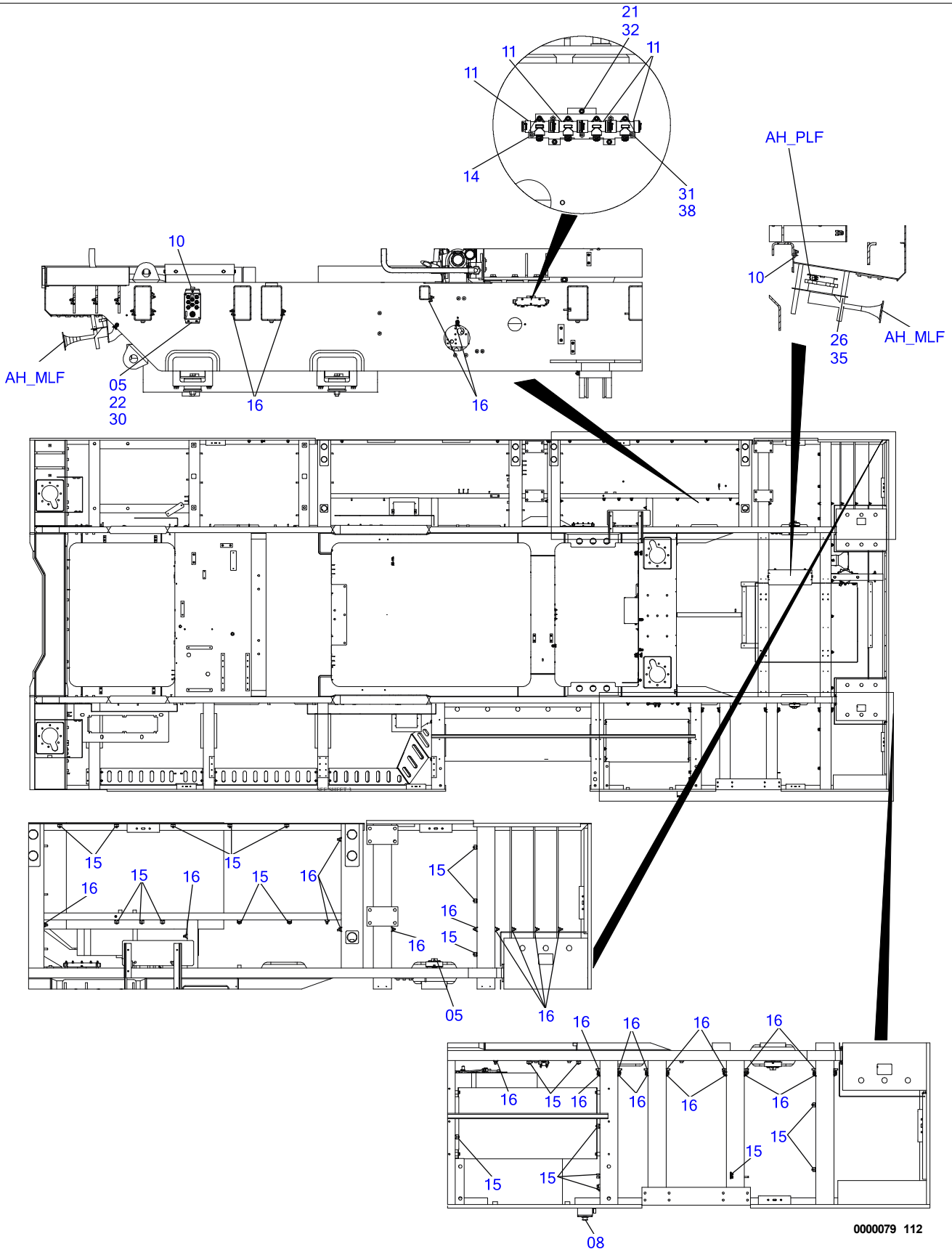
Item	Part No.	Description	Qty.
	R101667F1	HYDRAULIC ROUTING, MAST VALVE ASSEMBLY	
01	R89778D5	· CONNECTOR, ISO	4
02	R89778D6	· CONNECTOR, ISO	5
03	R89778D8	· CONNECTOR, ISO	2
04	R89778D10	· CONNECTOR, ISO	1
05	R89793D4	· CONNECTOR, ISO	3
06	R89794D2	· CONNECTOR, ISO	4
07	R89794D3	· CONNECTOR, ISO	2
08	R89862D5	· CONNECTOR, ISO	1
09	R89780T08M20D224	· HOSE ASSEMBLY, ISO	1
10	R89780T08M20D202	· HOSE ASSEMBLY, ISO	1
11	R89780T08M20D206	· HOSE ASSEMBLY, ISO	1
12	R89780T08M20D223	· HOSE ASSEMBLY, ISO	1
13	R89780T10M30D188	· HOSE ASSEMBLY, ISO	1
14	R89781T08M24D144	· HOSE ASSEMBLY, ISO	1
15	R89782T08M24D515	· HOSE ASSEMBLY, ISO	1
16	R89782T08M24D519	· HOSE ASSEMBLY, ISO	1
17	R89782T08M24D500	· HOSE ASSEMBLY, ISO	1
18	R89782T08M24D504	· HOSE ASSEMBLY, ISO	1
19	R89781T08M24D130	· HOSE ASSEMBLY, ISO	1
20	R89780T08M20D403	· HOSE ASSEMBLY, ISO	1
21	R89780T10M30D189	· HOSE ASSEMBLY, ISO	1
22	R103138T20D12	· SLEEVE, Spiral Hose Wrap	1
23	R103138T16D75	· SLEEVE, Spiral Hose Wrap	1
24	R104958D6	· CLAMP 25.40 INCH	4
25	32Z423D2	· CLAMP, Insulated	1
26	32Z423D34	· CLAMP	1
27	0825M10025	· BOLT, Hex Hd	1
28	3612M010	· WASHER, Plain	2
29	2104M010	· NUT, Hex	1

ELECTRICAL INSTALLATION, CHASSIS FRONT



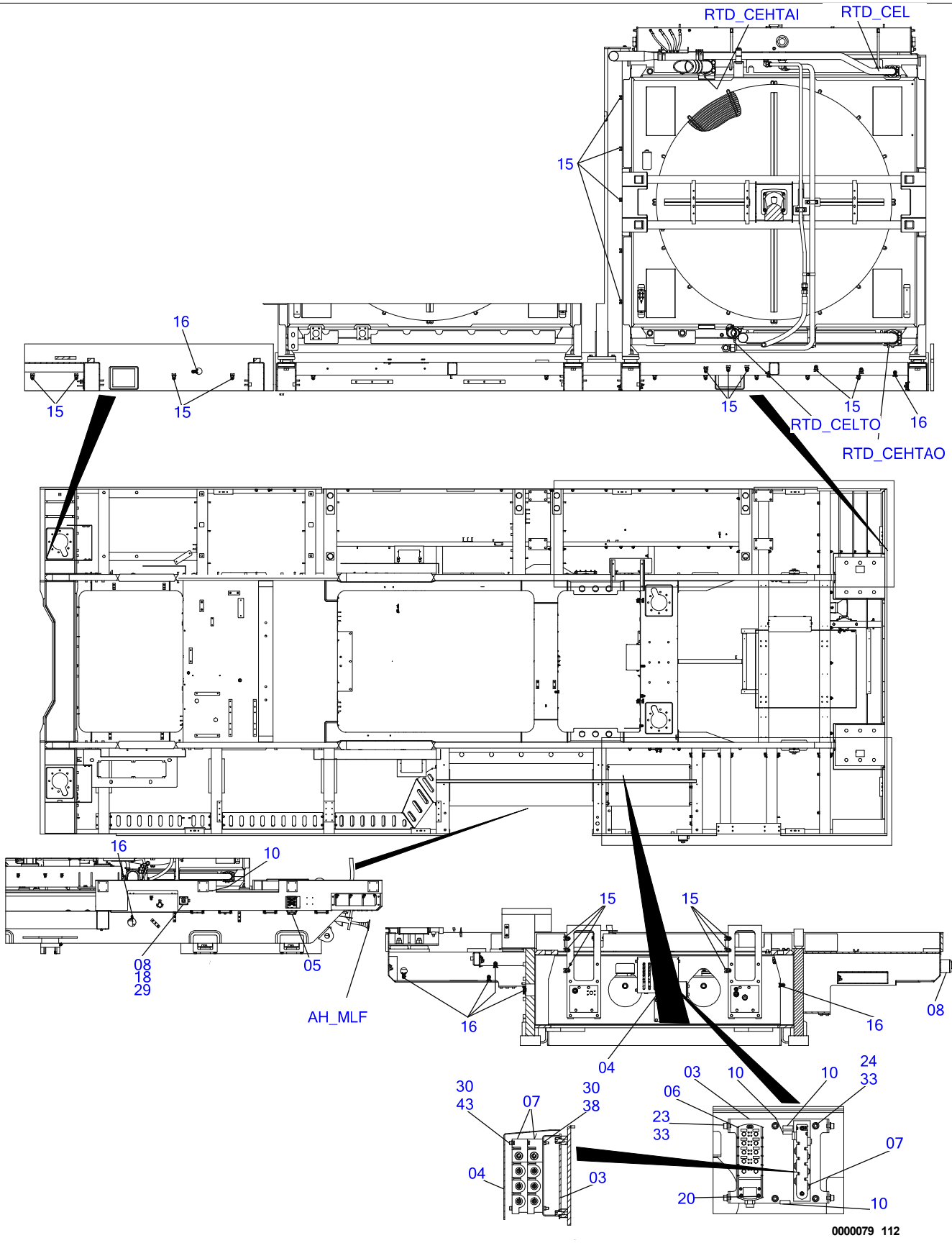
ELECTRICAL INSTALLATION, CHASSIS FRONT

ELECTRICAL INSTALLATION, CHASSIS FRONT



ELECTRICAL INSTALLATION, CHASSIS FRONT

ELECTRICAL INSTALLATION, CHASSIS FRONT



ELECTRICAL INSTALLATION, CHASSIS FRONT

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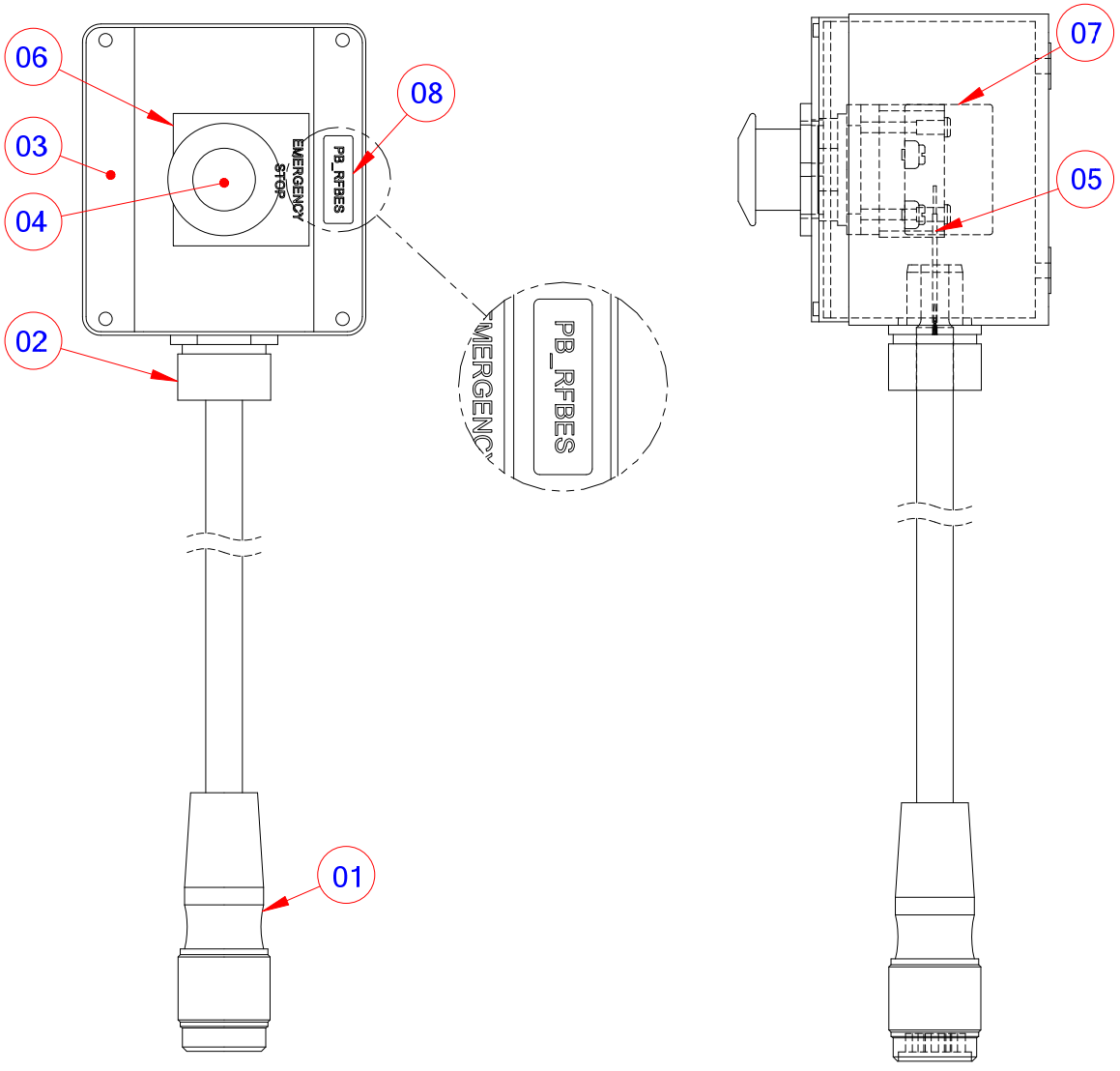
ELECTRICAL INSTALLATION, CHASSIS FRONT

Item	Part No.	Description	Qty.	Page
	R103933F1	ELECTRICAL INSTALLATION, CHASSIS FRONT		
AH_PLF	R89374D1	· SIREN, Electric - Propel	1	
AH_MLF	R89372D1	· HORN, Electric - Send Truck	1	
03	R107274D1	· BACK PLATE, Twin I/O	1	
04	R107275D1	· HOOD, Dual I/O	1	
05	R90735D1	· MAST PLATFORM BREAKOUT BOX RECEPTACLE	2	
06	R74817D1	· MODULE, I/O	1	
07	R76316D2	· DISTRIBUTION BLOCK, 6 Port, Canbus	2	
08	R90734F3	· PB STATION, E-Stop, Right Front	1	105
AH_PLF	85Z24D1	· GRIP, Cord	2	
10	R91001D1	· DECALS, Chassis Front	1	
11	R90737D1	· PIPE SLIDE WRENCH LINEAR POSITION COMMUNICATION T	7	
12	R100974D1	· TEE MOUNT, Cover Plate, One	1	
13	R100976D1	· TEE MOUNT, Cover Plate, Two	1	
14	R100980D1	· TEE MOUNT, Cover Plate, Three	1	
15	R88247D1	· MOUNT, Single	74	
16	R90641D1	· CABLE MOUNT, Single Edge	48	
17		NOT USED		
18	0830M05010	· SCREW, Socket Head	4	
19	0830M05016	· SCREW, Socket Head	2	
20	0830M05025	· SCREW, Socket Head	3	
21	0830M06008	· SCREW, Socket Head	6	
22	0830M06020	· SCREW, Socket Head	6	
23	0830M10012	· SCREW, Socket Head	4	
24	0830M10016	· SCREW, Socket Head	4	
25	0825M10030	· BOLT, Hex Hd	2	
26	0825M12020	· BOLT, Hex Hd	2	
27		NOT USED		
28	3612M005	· WASHER, Plain	4	
29	18Z3087D1	· WASHER, Conical Lock	4	
30	3612M006	· WASHER, Plain	6	
31	18Z3087D2	· WASHER, Conical Lock	10	
32	R82264D19	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6	
33	3612M010	· WASHER, Plain	8	
34	18Z3087D4	· WASHER, Conical Lock (Not Shown)	124	
35	3612M012	· WASHER, Plain	2	
36		NOT USED		
37	2104M005	· NUT, Hex	2	
38	2104M006	· NUT, Hex	10	

ELECTRICAL INSTALLATION, CHASSIS FRONT

Item	Part No.	Description	Qty.	Page
39	2104M010	▪ NUT, Hex (Not Shown)	122	
40	21Z772D4	▪ COMPOUND, Sealing and Locking (Not Shown)	1	
41	R95254D2	▪ STANDOFF, Insulator (Not Shown)	2	
42	3632V002	▪ WASHER, Plain (Not Shown)	4	
43	0624V009	▪ SCREW, Hex Hd Cap	2	
44	0624V010	▪ SCREW, Hex Hd Cap (Not Shown)	2	
RTD_CEHTAO	R89812D1	▪ COOLING ENGINE HIGH TEMP AIR OUTLET TEMPERATURE	1	
RTD_CEHTAI	R89812D1	▪ COOLING ENGINE HIGH TEMP AIR INLET TEMPERATURE	1	
RTD_CELTAI	R89812D1	▪ COOLING ENGINE LOW TEMP INLET TEMPERATURE	1	
RTD_CELTO	R89812D1	▪ COOLING ENGINE LOW TEMP OUTLET TEMPERATURE	1	

PUSH BUTTON STATION, RIGHT FRONT E-STOP



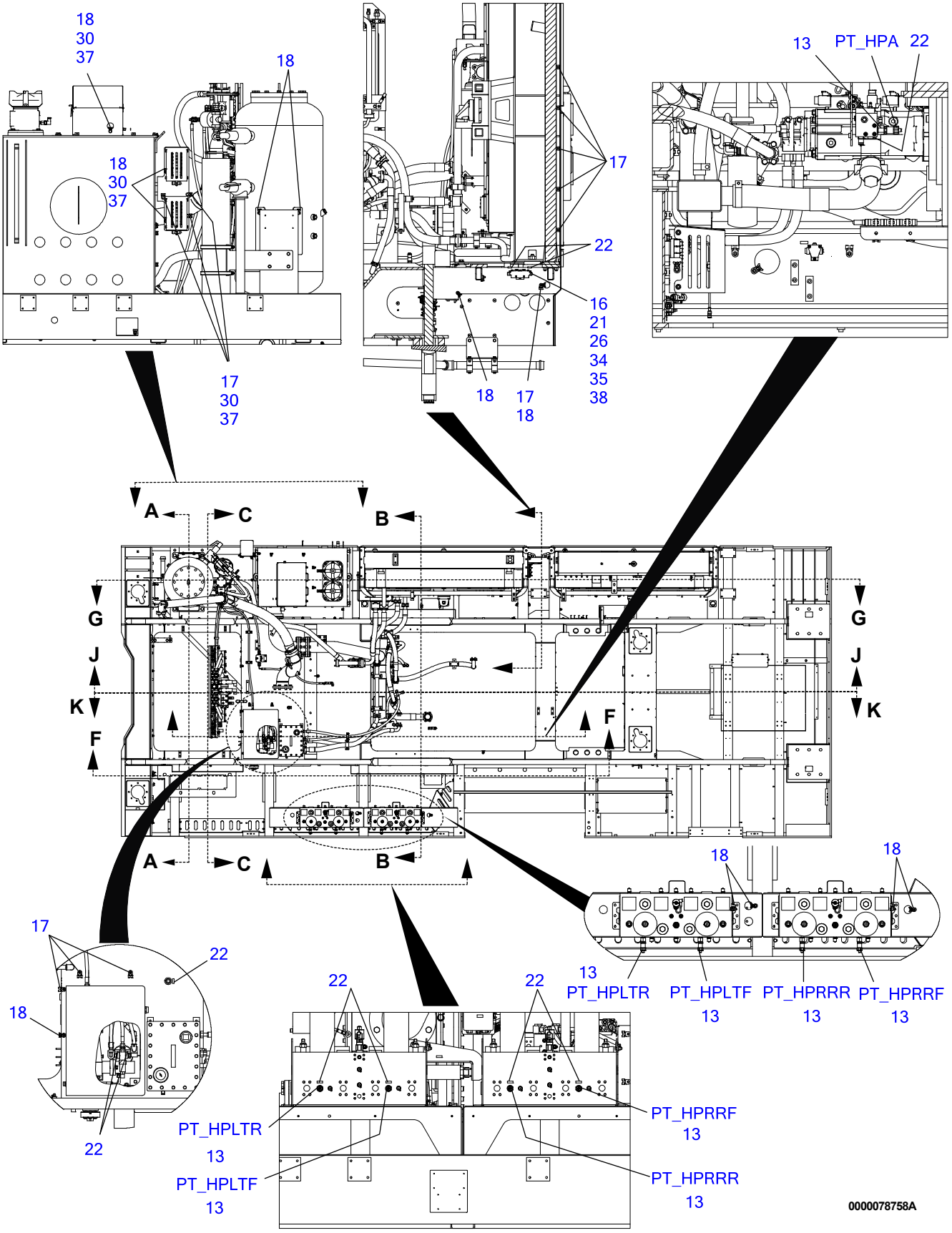
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1 OF 1

PUSH BUTTON STATION, RIGHT FRONT E-STOP

PUSH BUTTON STATION, RIGHT FRONT E-STOP

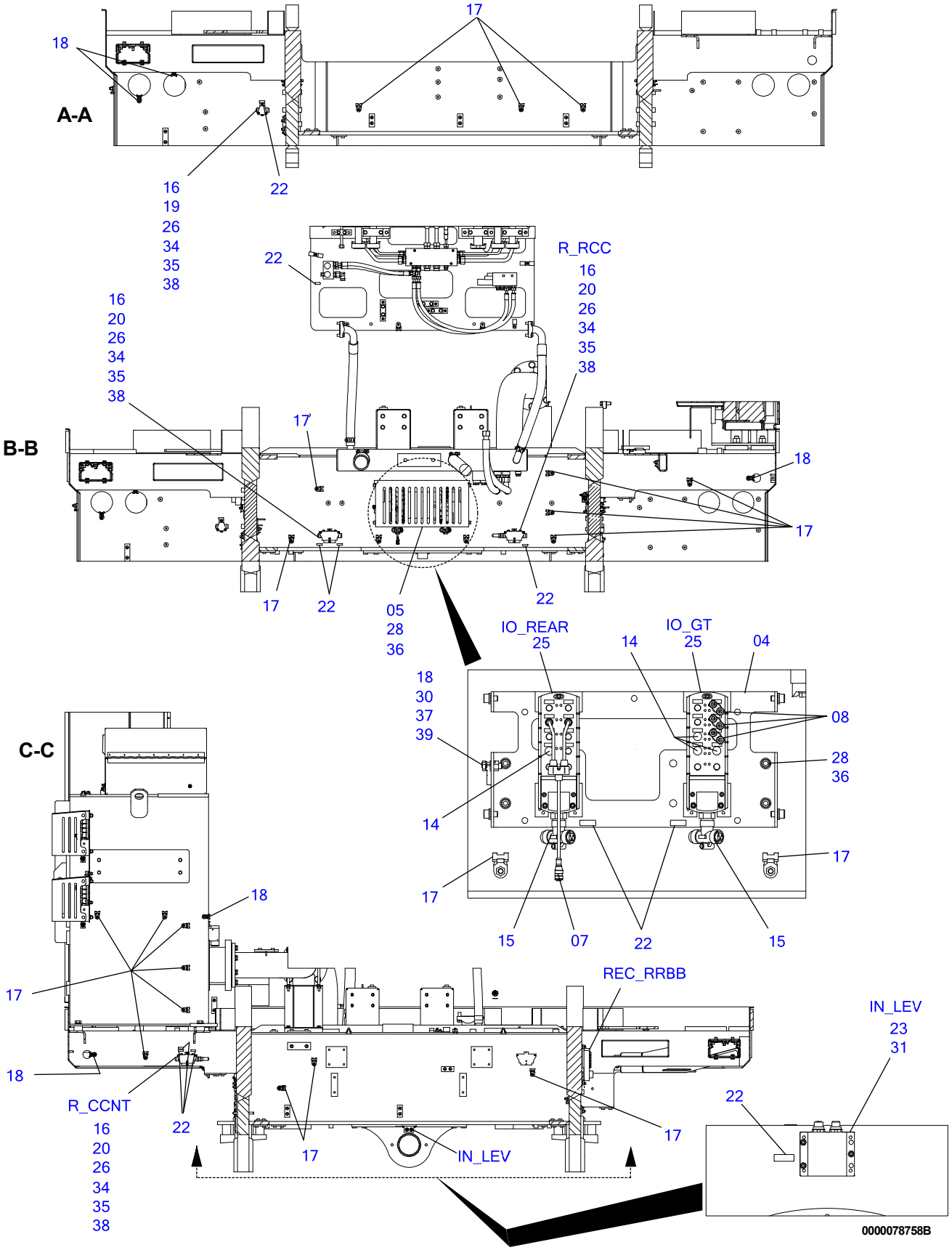
Item	Part No.	Description	Qty.
	R90734F3	PUSH BUTTON STATION, RIGHT FRONT E-STOP	
01	R4262045	・CABLE	1
02	85Z24D4	・GRIP, Cord	1
03	R90731D1	・ENCLOSURE	1
PB_RFBES	79Z2717D60	・E-STOP PUSH BUTTON	1
	79Z2721D3	・・CONTACT, NC	2
05	79Z2721D7	・CONTACT BLOCK	1
06	R90729D3	・NAMEPLATE, Emergency Stop	1
07	R89890D1	・LABELS, Right Front Boarding Wire	1
08	R91019D1	・DECALS, Right Front Boarding	1
	R91019D3	・・DECAL, Right Front Boarding	1

ELECTRICAL INSTALLATION, CHASSIS REAR



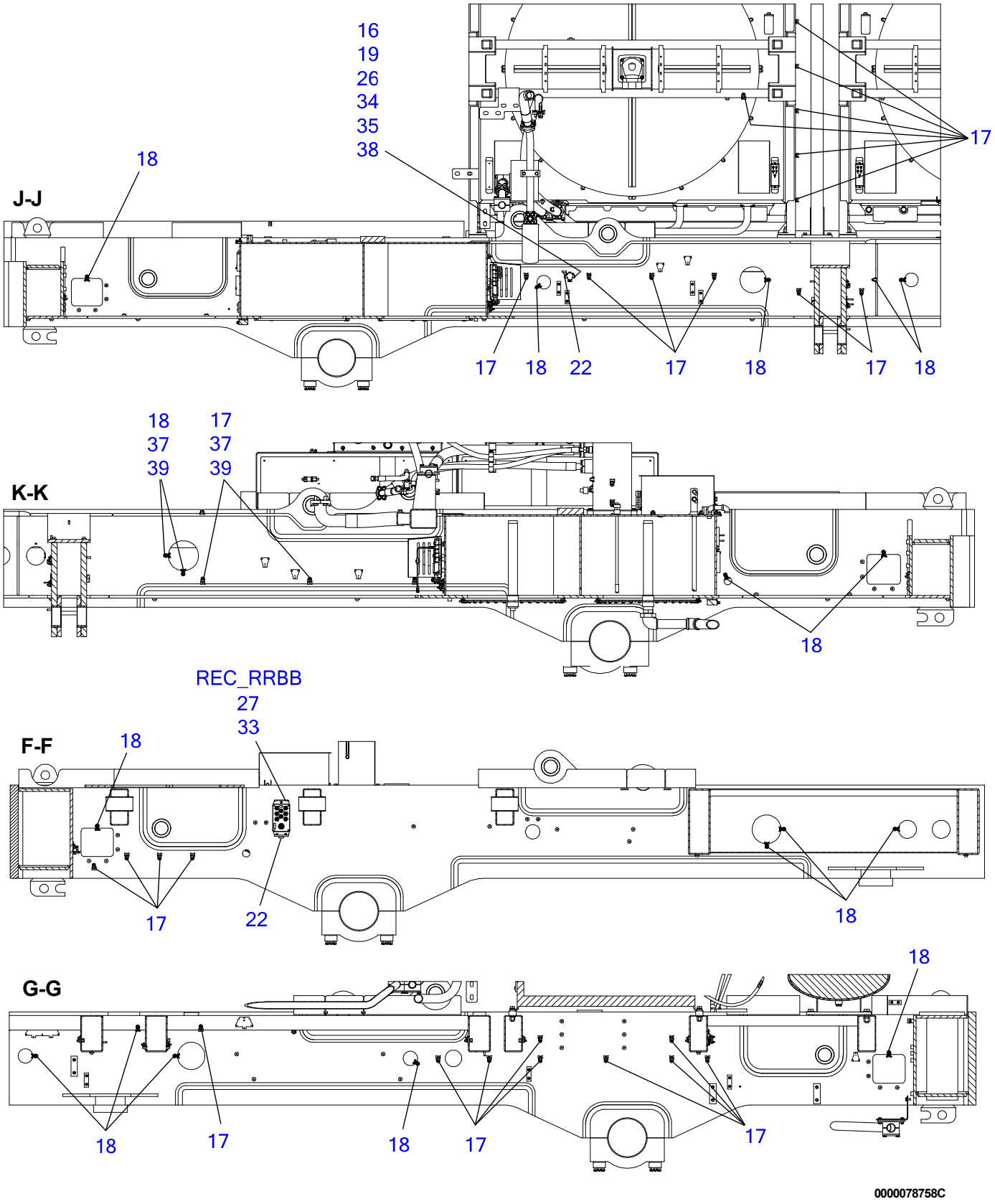
TOP VIEW

ELECTRICAL INSTALLATION, CHASSIS REAR



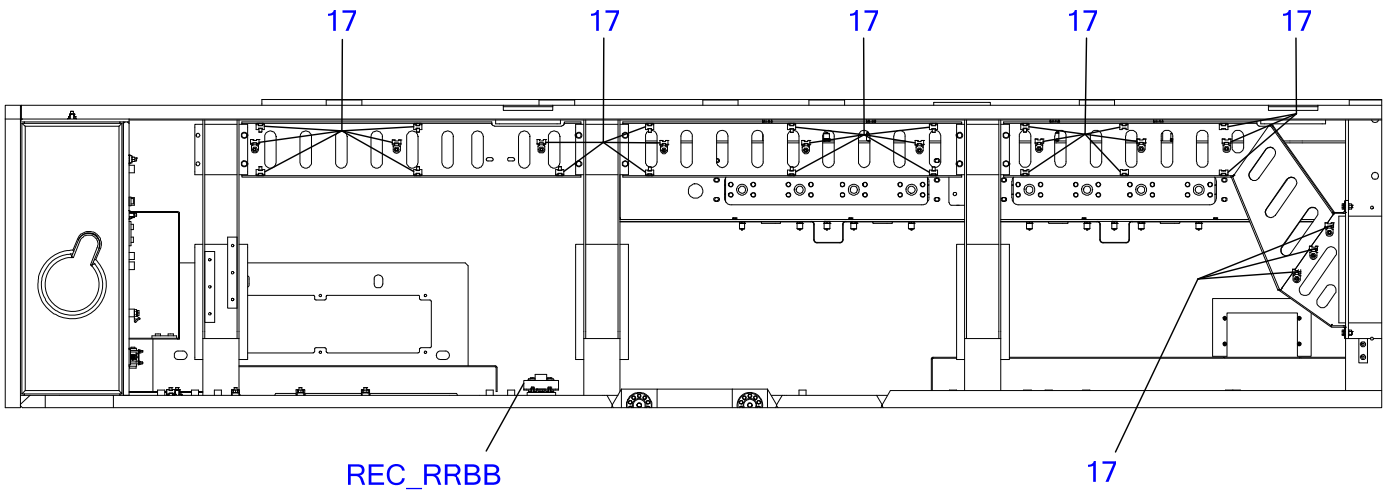
SECTIONS A-A, B-B & C-C

ELECTRICAL INSTALLATION, CHASSIS REAR



SECTIONS J-J, K-K, F-F & G-G

ELECTRICAL INSTALLATION, CHASSIS REAR



0000078758D

BOTTOM VIEW CABLE TROUGH

KOMATSU

ELECTRICAL INSTALLATION, CHASSIS REAR

Item	Part No.	Description	Qty.	Page
	R103949F1	ELECTRICAL INSTALLATION, CHASSIS REAR		
IO_GT	R74817D1	· MODULE, I/O	1	
IO_REAR	R74816D1	· MODULE, I/O	1	
REC_RRBB	R90735D1	· RECEPTACLE, Breakout Box	1	
04	R89854D1	· BACK PLATE, 2 I/O, Small	1	
05	R89855D1	· HOOD, 2 I/O, Small	1	
IN_LEV	R105938D2	· INCLINOMETER	1	
07	R91487D1	· CABLE, Splitter, CANopen	1	
08	R91485D1	· Y-SPLITTER, I/O	3	
R_CCNT	R76245D1	· TERMINATING RESISTOR	1	
R_RCC	R76245D1	· TERMINATING RESISTOR	1	
PT_HPA	R90562D1	· TRANSDUCER, Pressure	1	
PT_HPLTR	R90562D1	· TRANSDUCER, Pressure	1	
PT_HPLTF	R90562D1	· TRANSDUCER, Pressure	1	
PT_HPRRF	R90562D1	· TRANSDUCER, Pressure	1	
PT_HPRRR	R90562D1	· TRANSDUCER, Pressure	1	
11		NOT USED		
12		NOT USED		
13	R107159D3	· CONNECTOR	5	
14	R4255434	· RECEPTACLE, Video Camera, Front View	13	
15	R90736D1	· CONNECTOR, 3 Pole	2	
16	R90737D1	· CONNECTOR, 5 Pole	11	
17	R88247D1	· MOUNT, Single	115	
18	R90641D1	· CABLE MOUNT, Single Edge	48	
19	R100974D1	· TEE MOUNT, Cover Plate, One	2	
20	R100976D1	· TEE MOUNT, Cover Plate, Two	3	
21	R100978D1	· TEE MOUNT, Cover Plate, Three	1	
22	R107110D1	· DECALS, Chassis, Rear	1	107
23	0830M04010	· SCREW, Socket Head	3	
25	0830M05025	· SCREW, Socket Head	6	
26	0830M06008	· SCREW, Socket Head	11	
27	0830M06020	· SCREW, Socket Head	3	
28	0830M10016	· SCREW, Socket Head	8	
29	0825M10020	· BOLT, Hex Head (Not Shown)	2	
30	0825M10030	· BOLT, Hex Head	9	
31	3612M004	· WASHER, Plain	3	
33	3612M006	· WASHER, Plain	3	
34	18Z3087D2	· WASHER, Conical Lock	17	
35	R82264D19	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	11	
36	3612M010	· WASHER, Plain	8	

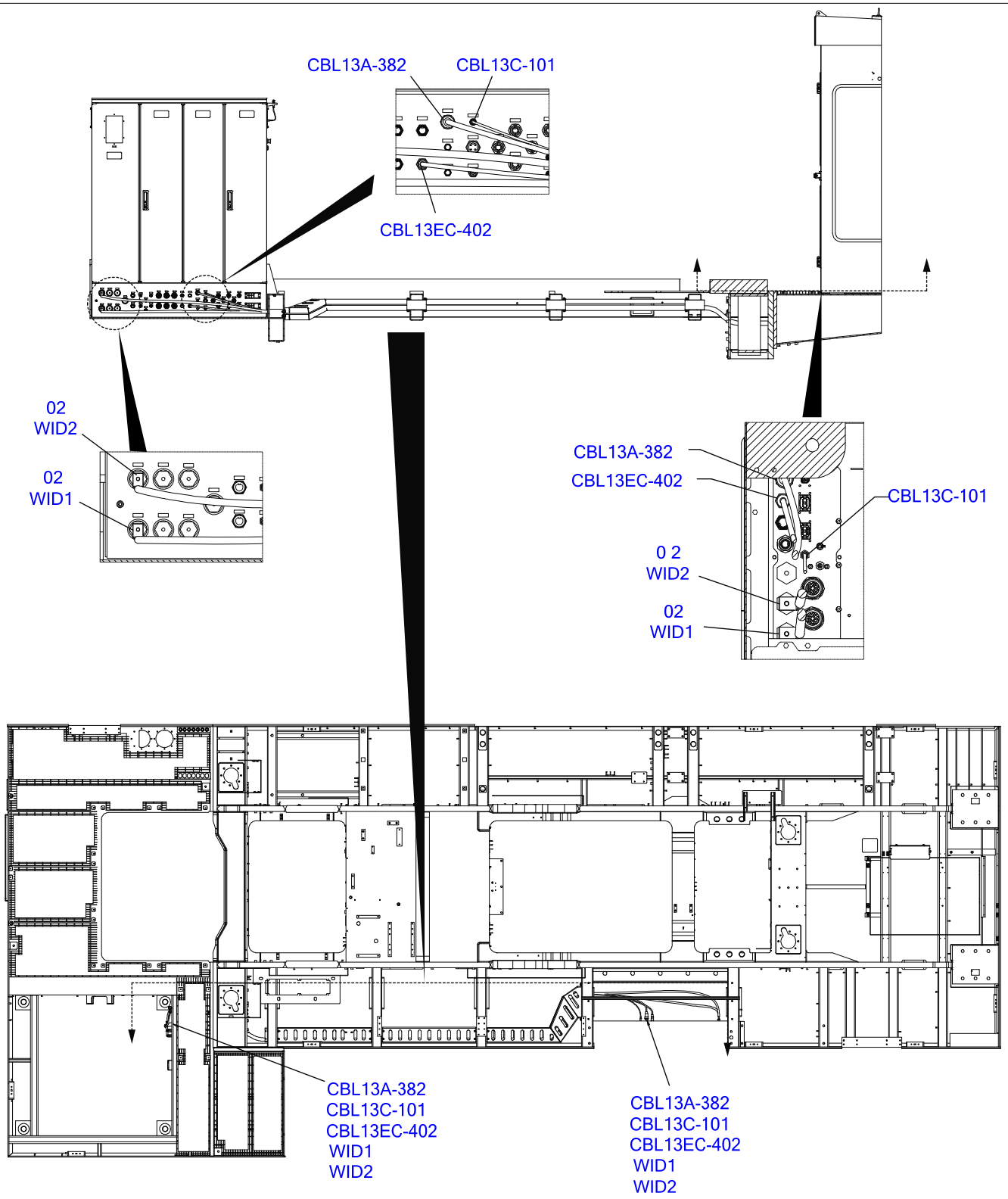
ELECTRICAL INSTALLATION, CHASSIS REAR

Item	Part No.	Description	Qty.	Page
37	18Z3087D4	▪ WASHER, Conical Lock	163	
38	2104M006	▪ NUT, Hex	17	
39	2104M010	▪ NUT, Hex	157	
40	21Z772D4	▪ COMPOUND, Sealing and Locking (Not Shown)	1	

DECALS, CHASSIS, REAR

Item	Part No.	Description	Qty.
	R107110D1	DECALS, CHASSIS, REAR	
01	R107110D2	▪ DECAL, IN_LEV	1
02	R107110D3	▪ DECAL, IO_GT	1
03	R107110D4	▪ DECAL, IO_REAR	1
04	R107110D5	▪ DECAL, LT_DCWTL	1
05	R107110D6	▪ DECAL, SV_DCWB1	1
06	R107110D7	▪ DECAL, SV_DCWB2	1
07	R107110D8	▪ DECAL, SV_DCWIP	1
08	R107110D9	▪ DECAL, REC_RRBB	1
09	R107110D15	▪ DECAL, TCC_HPAP	1
10	R107110D17	▪ DECAL, PT_HPA	1
11	R107110D18	▪ DECAL, PT_HPLTR	1
12	R107110D19	▪ DECAL, PT_HPLTF	1
13	R107110D20	▪ DECAL, PT_HPRRR	1
14	R107110D21	▪ DECAL, PT_HPRRF	1
15	R107110D22	▪ DECAL, R_CCNT	1
16	R107110D23	▪ DECAL, R_RCC	1
17	R107110D24	▪ DECAL, TCC_CBC	1
18	R107110D25	▪ DECAL, TCC_COIP	1
19	R107110D26	▪ DECAL, TCC_GTIO	1
20	R107110D27	▪ DECAL, TCC_ENG	1
21	R107110D28	▪ DECAL, TCC_CC	1
22	R107110D29	▪ DECAL, TCC_HPVIO	1
23	R107110D30	▪ DECAL, TCC_HTIO	1
24	R107110D31	▪ DECAL, TCC_CAOR	1

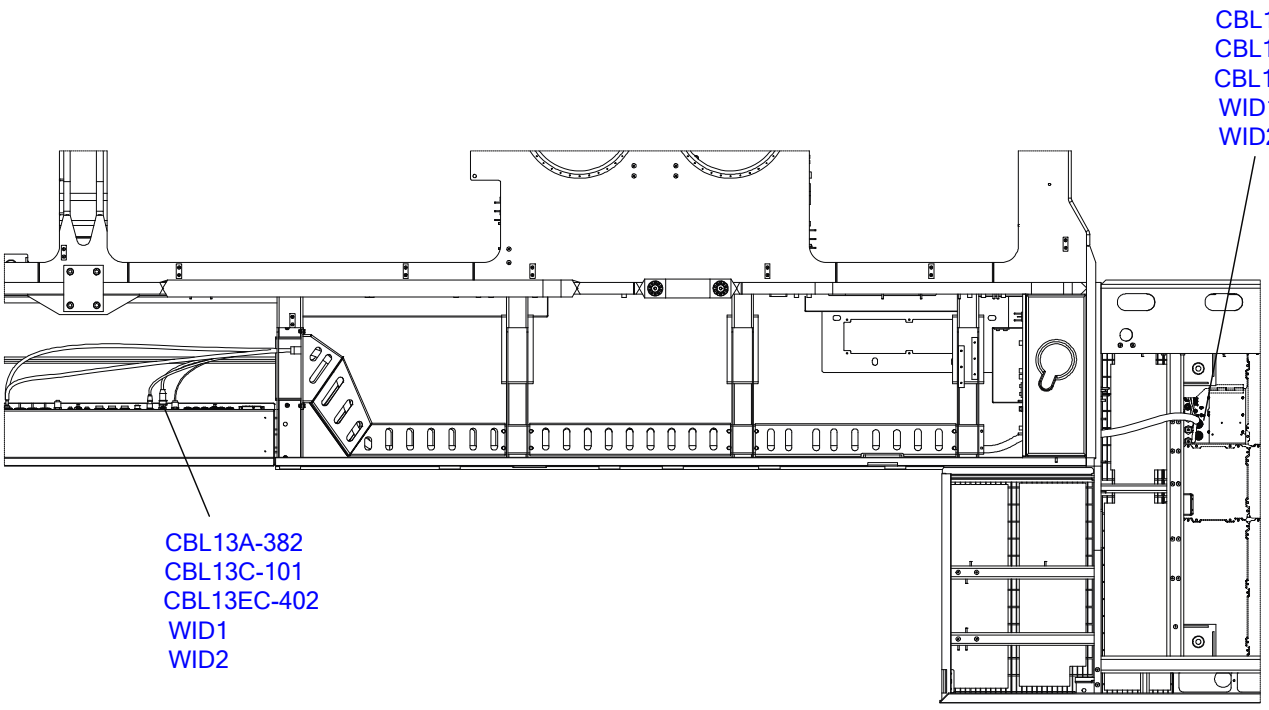
CABLE INSTALLATION, CONTROL TO CAB



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TOP VIEW

CABLE INSTALLATION, CONTROL TO CAB



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BOTTOM VIEW

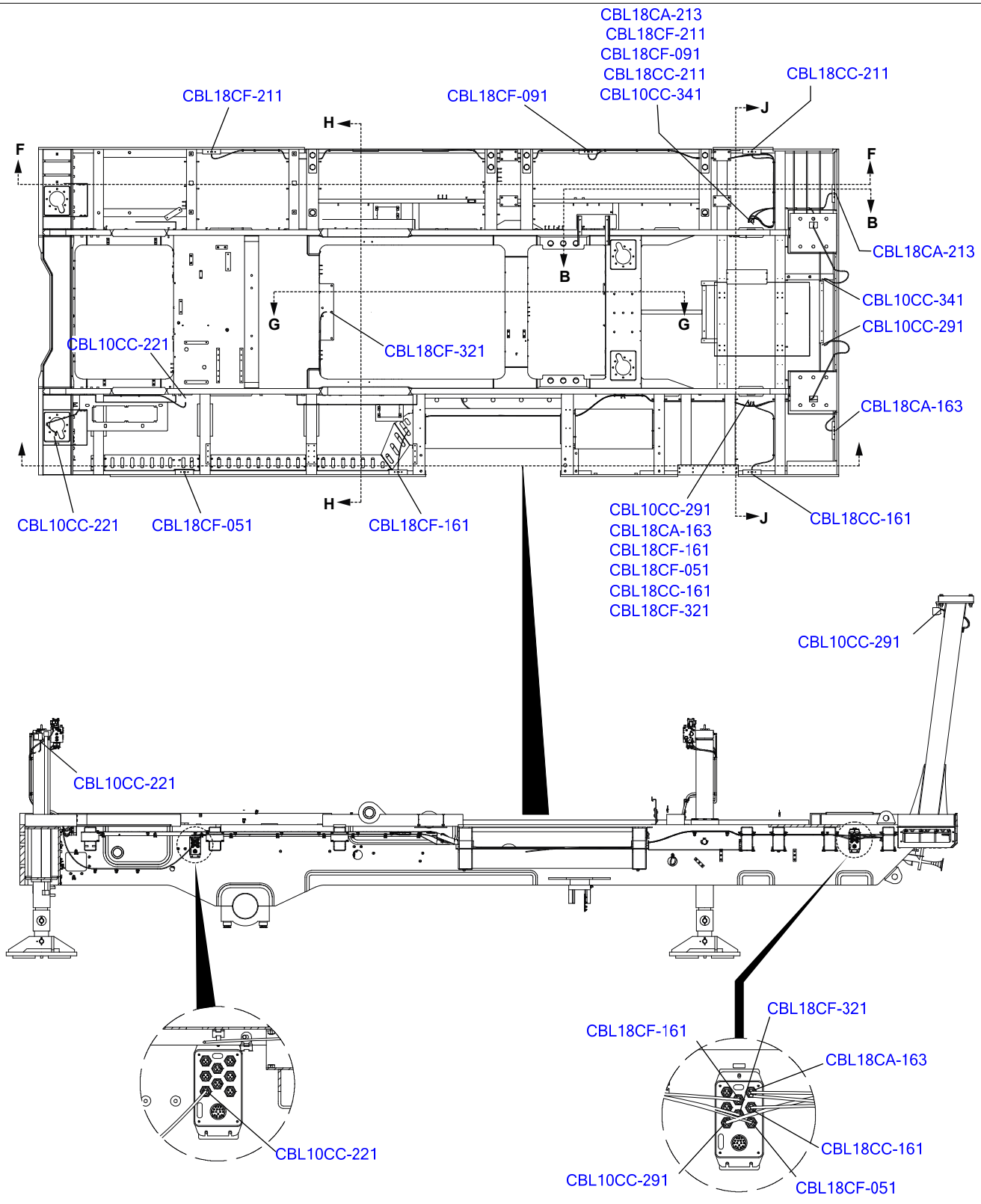
CABLE INSTALLATION, CONTROL TO CAB

Item	Part No.	Description	Qty.	Unit
	R89725F800	CABLE INSTALLATION, CONTROL TO CAB		
01	R89740F800	・WIRE LIST, Control To Cab	1	
		・・CABLE, 4/0 AWG, Black	1	
WID1	505581722	・・・CABLE, 4/0 AWG, Black	24	Foot
		・・CABLE, 4/0 AWG, Black	1	
WID2	505581722	・・・CABLE, 4/0 AWG, Black	24	Foot
CBL13A-382	R90654T10D700	・・CABLE, 3 Pin	1	
CBL13C-101	R90653T10D700	・・CABLE, 4 Pin	1	
CBL13EC-402	R90656T10D700	・・CABLE, 12 Pin	1	
02	R93951D40	・LUG	4	
03	R88249D1	・TIE, Wire (Not Shown)	12	

CABLE INSTALLATION, CHASSIS, FRONT

Item	Part No.	Description	Qty.	Page
	R111038F2000	CABLE INSTALLATION, CHASSIS, FRONT		
01	R111038F201	▪ CABLE INSTALLATION, Chassis, Lights	1	110
02	R89725F202	▪ CABLE INSTALLATION, Chassis, Engine Coolers	1	111
03	R111038F203	▪ CABLE INSTALLATION, Chassis, Leveling Network	1	112
04	R111038F2004	▪ CABLE INSTALLATION, Chassis, Front Miscellaneous	1	113
05	R89725F205	▪ CABLE INSTALLATION, Crawlers	1	114
06	R111038F206	▪ CABLE INSTALLATION, Chassis, Front Horns	1	115

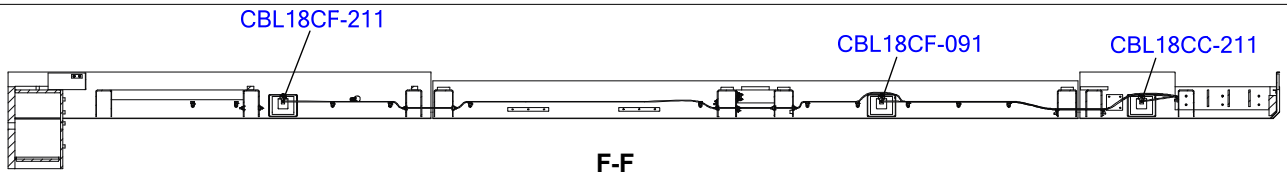
CABLE INSTALLATION, CHASSIS, LIGHTS



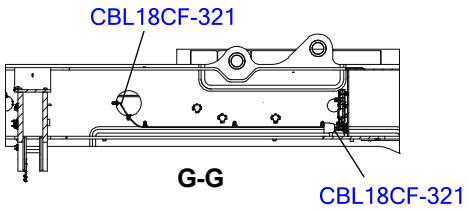
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TOP VIEW

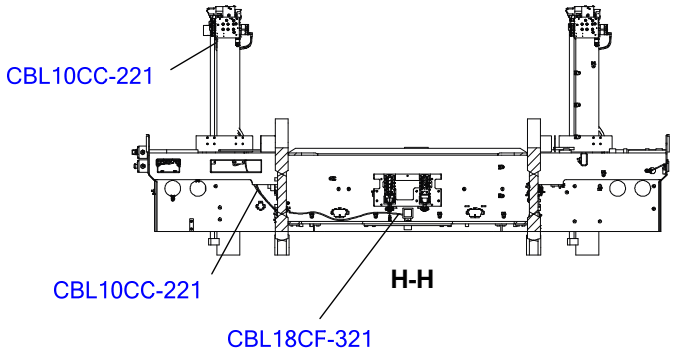
CABLE INSTALLATION, CHASSIS, LIGHTS



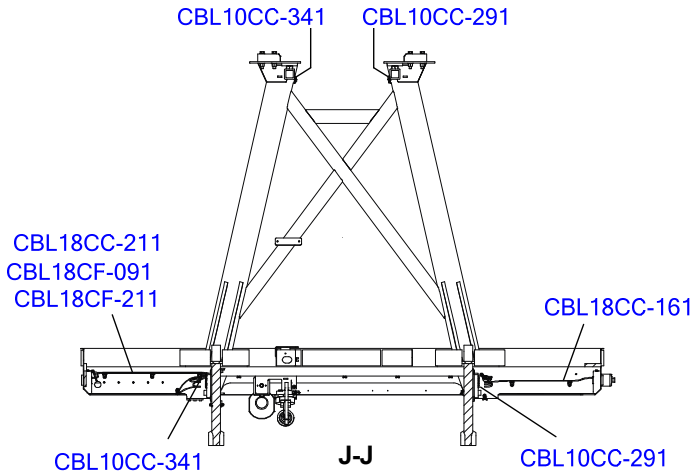
F-F



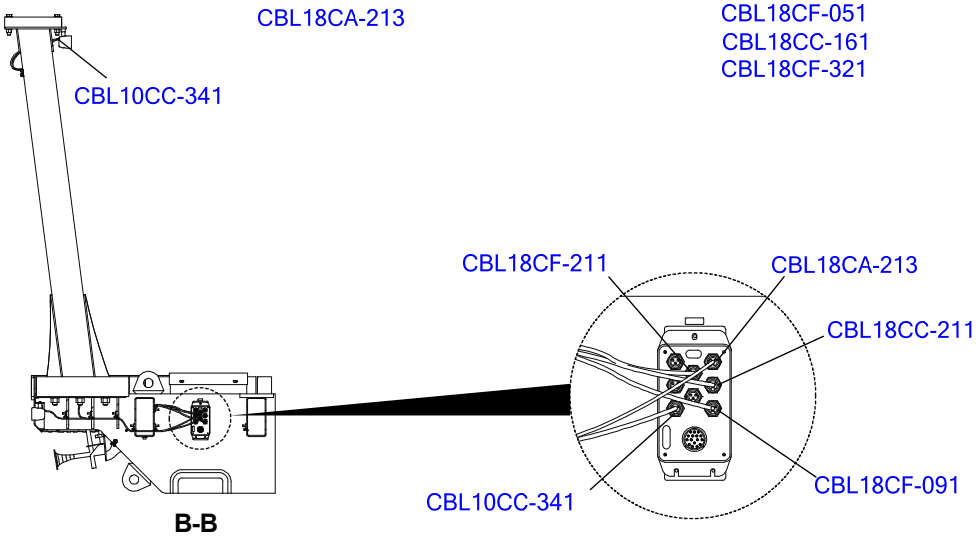
G-G



H-H



J-J

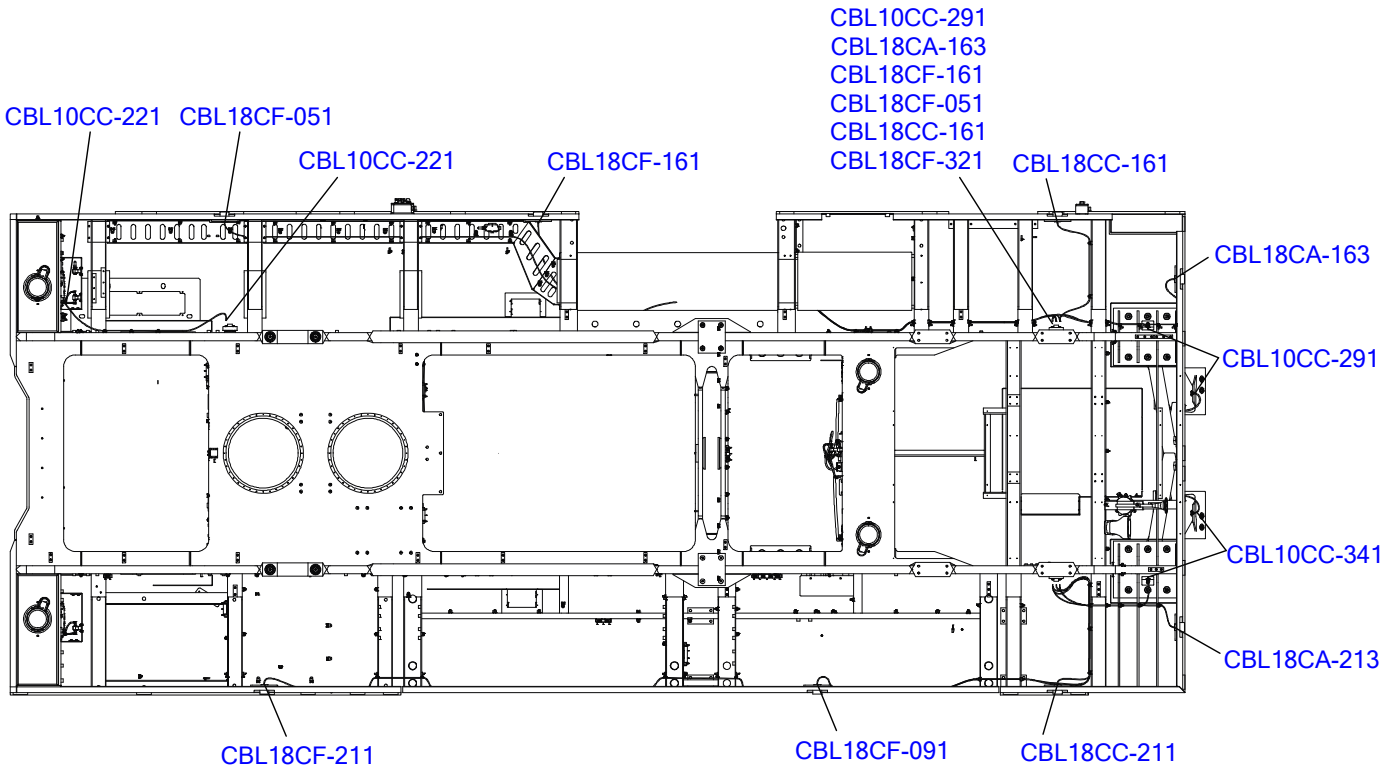


B-B

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TOP VIEW SECTIONS

CABLE INSTALLATION, CHASSIS, LIGHTS



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BOTTOM VIEW

KOMATSU

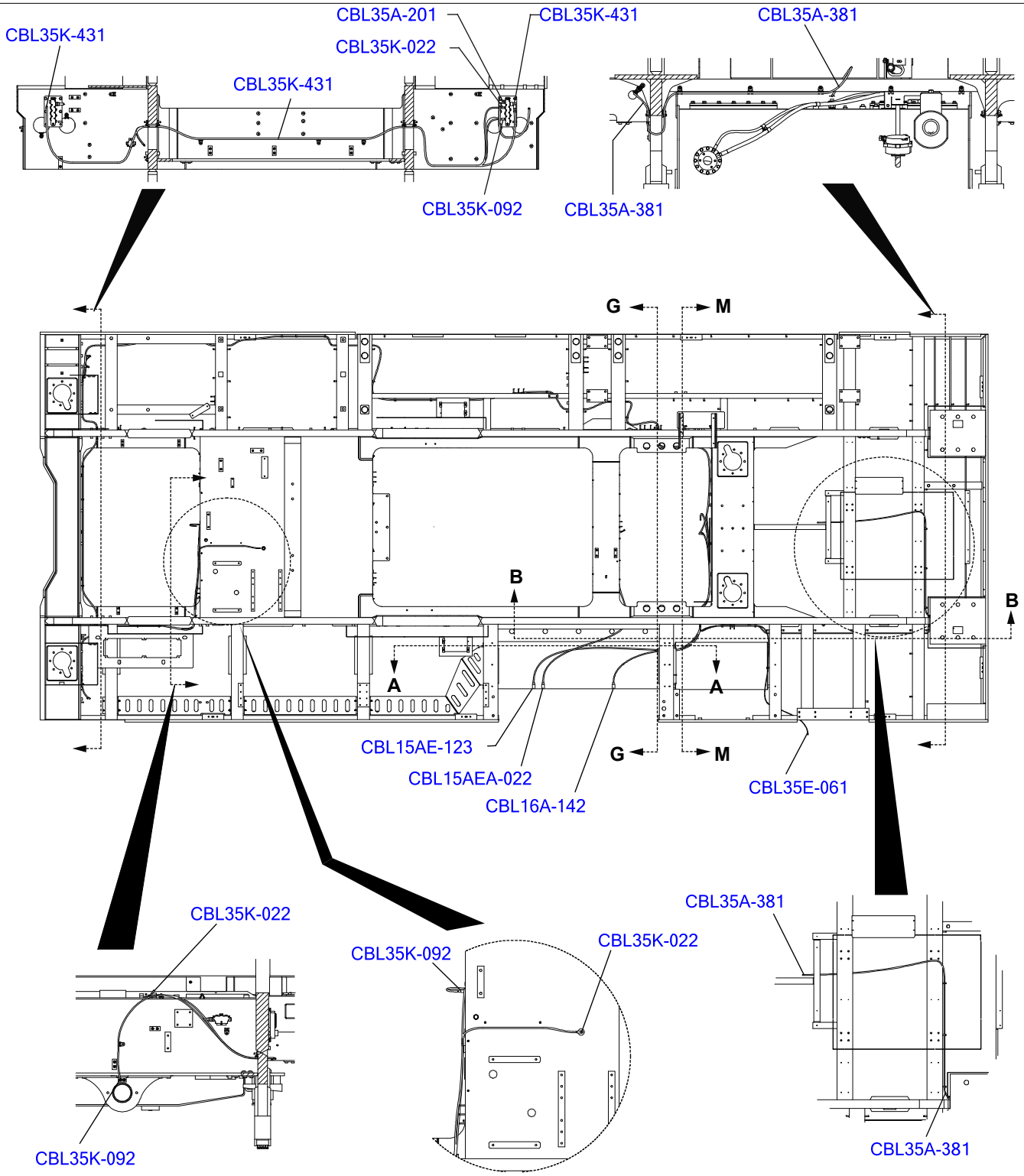
CABLE INSTALLATION, CHASSIS, LIGHTS

Item	Part No.	Description	Qty.
	R111038F201	CABLE INSTALLATION, CHASSIS, LIGHTS	
CBL10CC-291	R90655T20D400	・CABLE, 3 Pin	1
CBL10CC-341	R90655T20D420	・CABLE, 3 Pin	1
CBL18CA-163	R90655T20D180	・CABLE, 3 Pin	1
CBL18CF-161	R90655T20D550	・CABLE, 3 Pin	1
CBL18CF-051	R90655T20D800	・CABLE, 3 Pin	1
CBL18CC-161	R90655T20D140	・CABLE, 3 Pin	1
CBL18CF-321	R90655T20D720	・CABLE, 3 Pin	1
CBL18CC-211	R90655T20D180	・CABLE, 3 Pin	1
CBL18CF-091	R90655T20D400	・CABLE, 3 Pin	1
CBL18CF-211	R90655T20D900	・CABLE, 3 Pin	1
CBL18CA-213	R90655T20D150	・CABLE, 3 Pin	1
CBL10CC-221	R90655T20D350	・CABLE, 3 Pin	1
13	R88249D1	・TIE, Wire (Not Shown)	50

CABLE INSTALLATION, CHASSIS, ENGINE COOLERS

Item	Part No.	Description	Qty.
	R89725F202	CABLE INSTALLATION, CHASSIS, ENGINE COOLERS	
01	R89740F202	・WIRE LIST, Chassis, Engine Coolers	1
02	R90650T14D240	・・CABLE, 4 Pin	1
03	R90650T14D530	・・CABLE, 4 Pin	1
04	R90650T14D370	・・CABLE, 4 Pin	1
05	R90650T12D400	・・CABLE, 4 Pin	1
06	R90652T10D260	・・CABLE, 5 Pin	1
07	R90651T12D90	・・CABLE, 5 Pin	1
08	R88249D1	・TIE, Wire	50

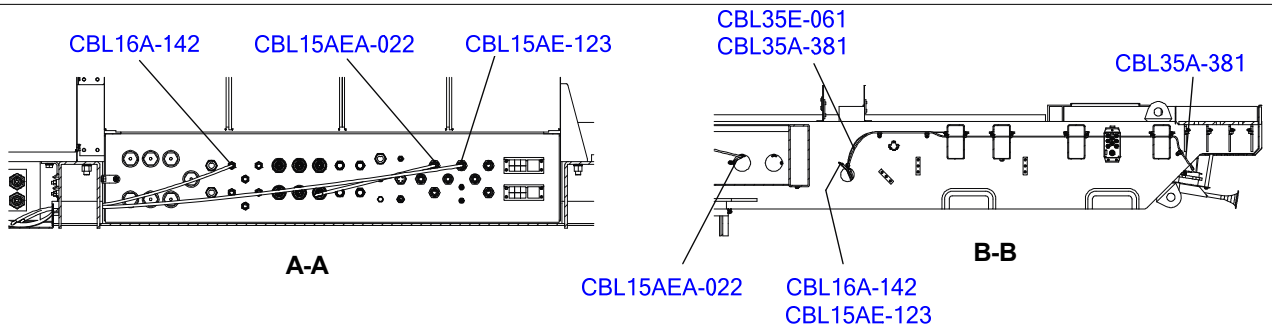
CABLE INSTALLATION, CHASSIS, LEVELING NETWORK

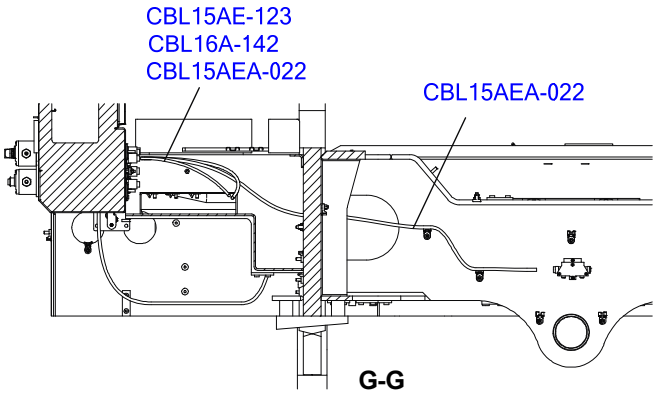


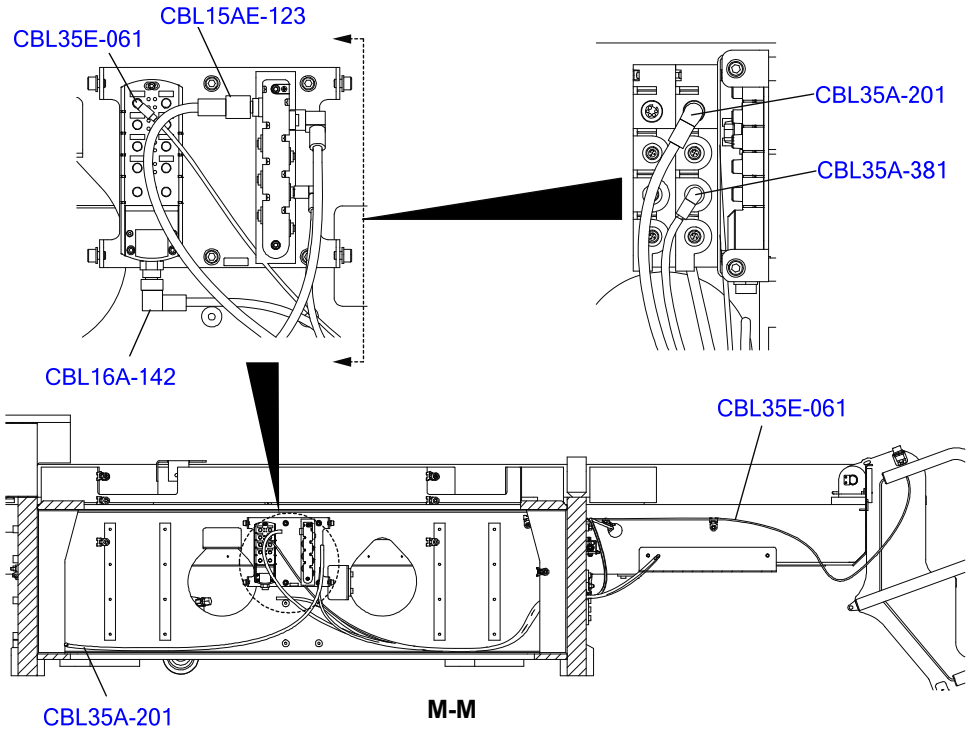
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TOP VIEW

CABLE INSTALLATION, CHASSIS, LEVELING NETWORK







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TOP VIEW SECTIONS

CABLE INSTALLATION, CHASSIS, LEVELING NETWORK

Item	Part No.	Description	Qty.
	R111038F203	CABLE INSTALLATION, CHASSIS, LEVELING NETWORK	
CBL15AEA-022	R90652T10D260	• CABLE, 5 Pin	1
CBL16A-142	R90655T11D340	• CABLE, 3 Pin	1
CBL15AE-123	R90652T10D400	• CABLE, 5 Pin	1
CBL35K-431	R90652T12D530	• CABLE, 5 Pin	1
CBL35A-201	R90652T12D1200	• CABLE, 5 Pin	1
CBL35K-022	R90651T13D680	• CABLE, 5 Pin	1
CBL35K-092	R90651T10D700	• CABLE, 5 Pin	1
CBL35A-381	R90651T12D720	• CABLE, 5 Pin	1
CBL35E-061	R90650T14D460	• CABLE, 5 Pin	1
10		NOT USED	
11		NOT USED	
12	R88249D1	• TIE, Wire (Not Shown)	25

KOMATSU

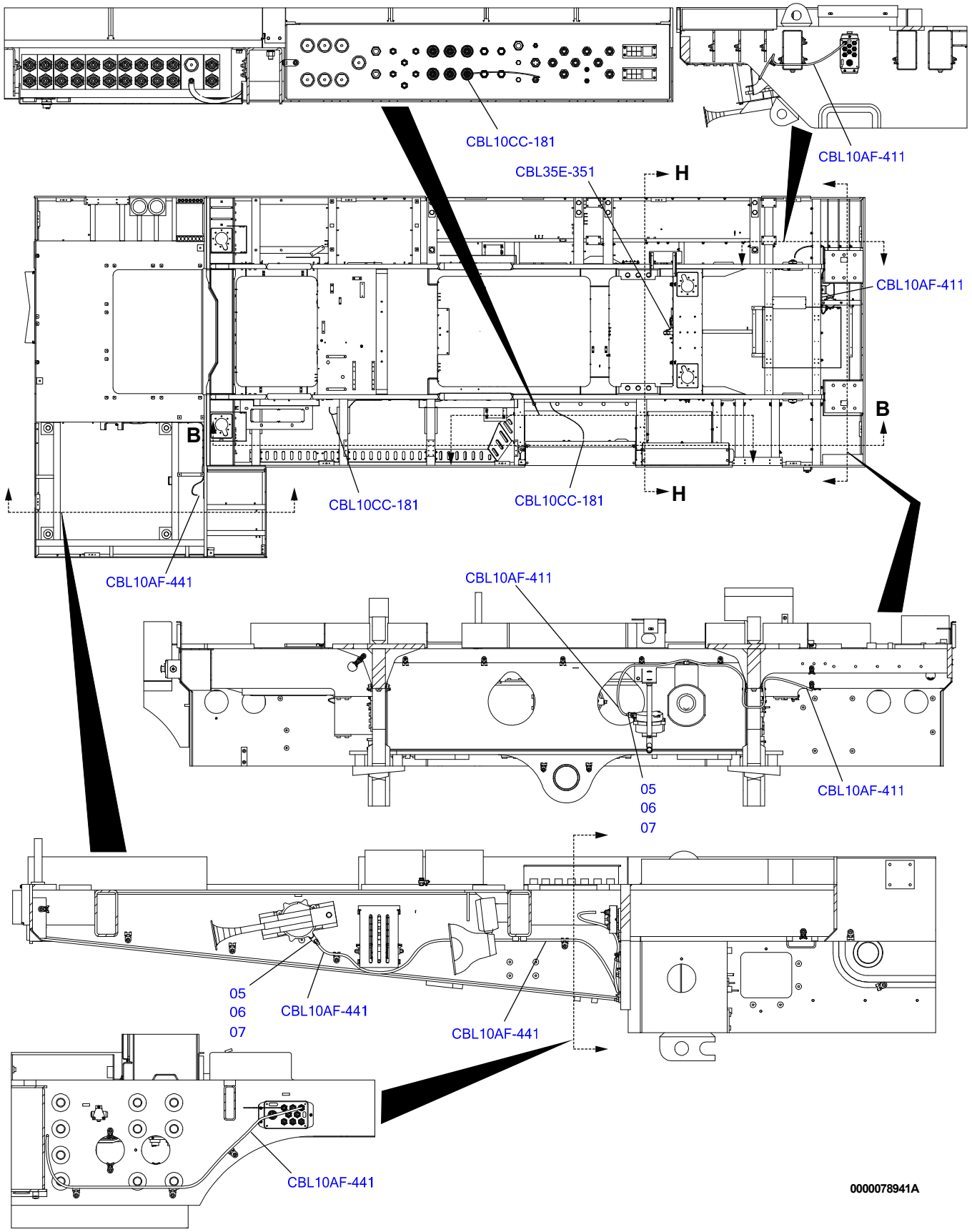
CABLE INSTALLATION, CHASSIS, FRONT MISCELLANEOUS

Item	Part No.	Description	Qty.	Unit
	R111038F2004	CABLE INSTALLATION, CHASSIS, FRONT MISCELLANEOUS		
WID1		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	20	Foot
WID2		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE,4/0 AWG,BLACK	20	Foot
CBL10AA-261	R84894D4	▪ CABLE, 4/0AWG with 300A In-Line Fuse	1	
CBL10AA-281	R84894D4	▪ CABLE, 4/0AWG with 300A In-Line Fuse	1	
CBL13EC-082	R90656T10D520	▪ CABLE	1	
CBL15AF-123	R90652T10D250	▪ CABLE, 5-Pin	1	
CBL18CA-162	R90660F1	▪ CABLE BREAKOUT BOX	1	
CBL18CA-212	R90660F1	▪ CABLE BREAKOUT BOX	1	
CBL35E-291	R90650T17D720	▪ CABLE, w/ Plug	1	
CBL21AA-371	R90655T20D1270	▪ CABLE ASSEMBLY	1	
CBL21AA-221	R90652T10D480	▪ CABLE, 5-Pin	1	
12	79U2522D60	▪ LUG, Terminal	8	
13	R88249D1	▪ TIE, Wire	50	
14	R4170167	▪ TUBING, Shrink - Clear	4	Foot
15	R4235607	▪ TERMINAL, Battery	2	
16	R119930D1	▪ BRACKET, Clamp Mounting	1	
17	R119931D1	▪ BRACKET, Clamp Mounting	1	
18	32Z423D34	▪ CLAMP, Insulated	5	
19	0825M12030	▪ BOLT, Hex Hd	2	
20	0627M12016	▪ SCREW, Hex Head	2	
21	0825M10030	▪ BOLT, Hex Hd	3	
22	0825M10016	▪ BOLT, Hex Hd	2	
23	R89928D8	▪ WASHER, Oversized	2	
24	R89928D7	▪ WASHER, Oversized	3	
25	R82264D21	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	2	
26	3612M012	▪ WASHER, Plain	2	
27	3612M010	▪ WASHER, Plain	5	
28	2104M010	▪ NUT, Hex	3	

INSTALL,CABLE,CRAWLERS

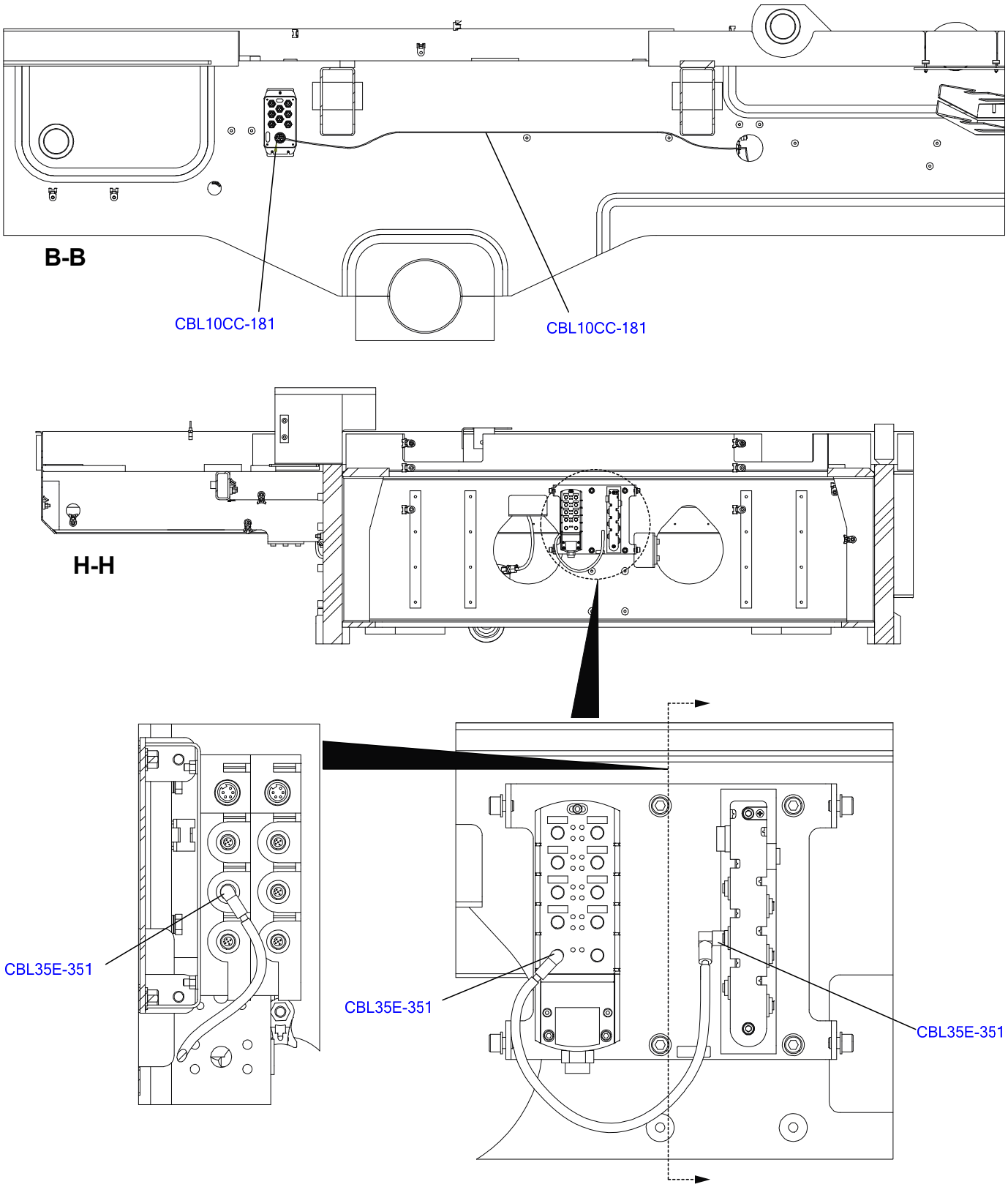
Item	Part No.	Description	Qty.
	R89725F205	CABLE INSTALLATION, Crawlers	
01	R89740F205	・WIRE LIST, Crawlers	1
	R90650T21D500	・・CABLE, 2 Pin	1
	R90650T22D750	・・CABLE, 2 Pin	1
	R90650T22D800	・・CABLE, 2 Pin	1
02	R88249D1	・TIE, Wire	25

CABLE INSTALLATION, CHASSIS, FRONT, HORNS



CABLE INSTALLATION, FRONT CHASSIS, HORNS

CABLE INSTALLATION, CHASSIS, FRONT, HORNS



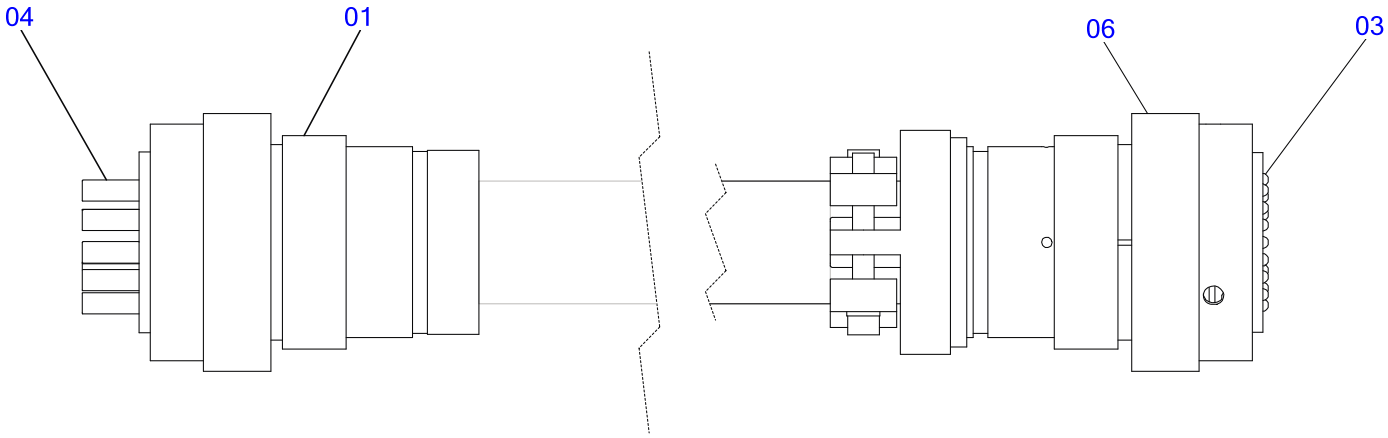
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CABLE INSTALLATION, CHASSIS, FRONT, HORNS CONT.

CABLE INSTALLATION, CHASSIS, FRONT, HORNS

Item	Part No.	Description	Qty.	Page
	R111038F206	CABLE INSTALLATION, CHASSIS, FRONT, HORNS		
CBL10AF-411	R90655T15D190	▪ CABLE, 3 Pin	1	
CBL35E-351	R90651T12D40	▪ CABLE, 5 Pin	1	
CBL10CC-181	R90660F1	▪ BREAKOUT BOX, Cable	1	116
	R90660F1	▪ BREAKOUT BOX, Cable (To Schematic)	1	
CBL10AF-441	R90655T15D290	▪ CABLE, 3 Pin	1	
05	R113638D002	▪ CONNECTOR, 2 Pin	2	
06	R113638D201	▪ CABLE SEAL, Weather Pack	4	
07	R113638D502	▪ TERMINAL	4	
08	R88249D1	▪ TIE, Wire (Not Shown)	50	

CABLE BREAKOUT BOX



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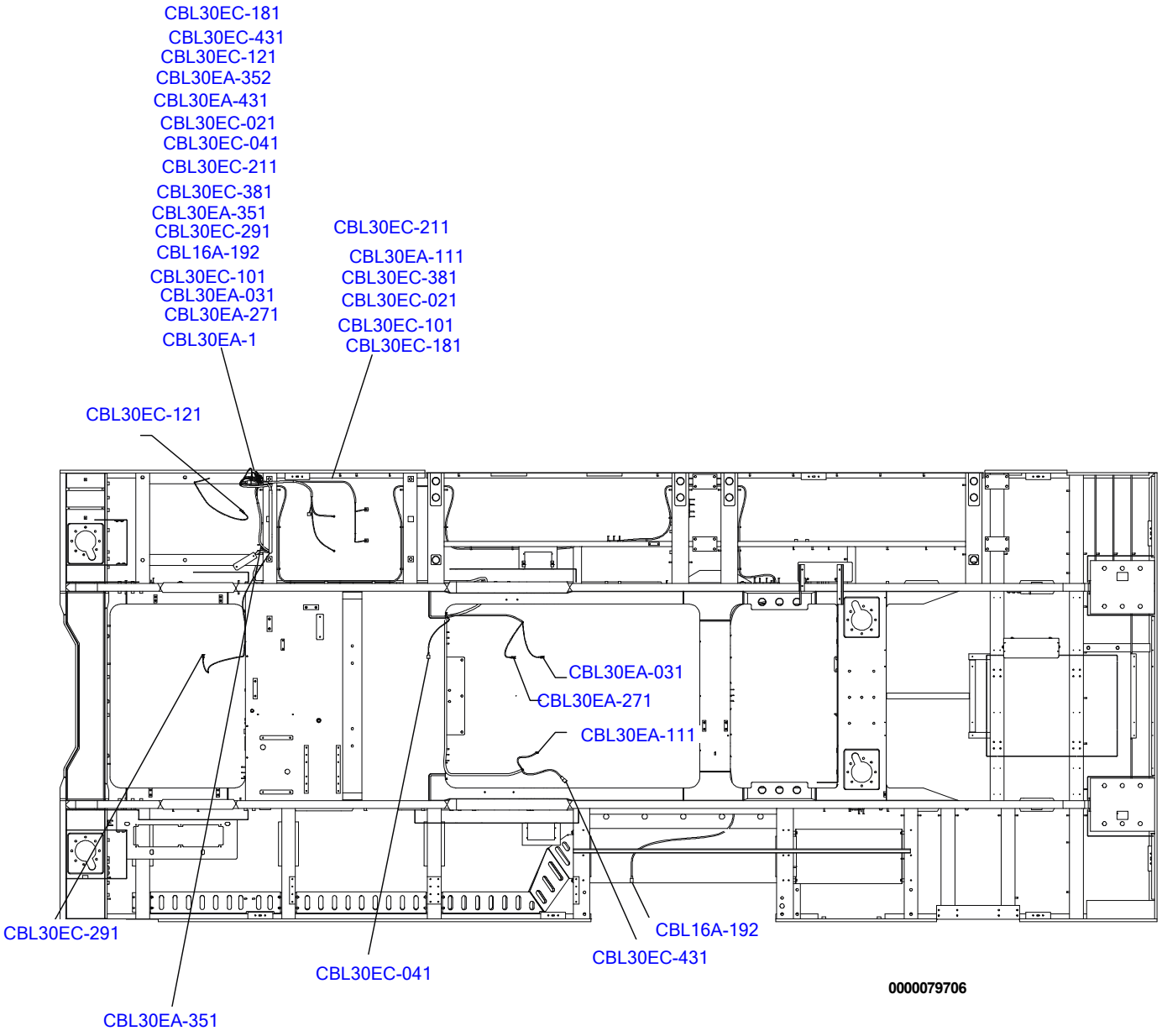
CABLE BREAKOUT BOX

Item	Part No.	Description	Qty.	Unit
	R90660F1	CABLE BREAKOUT BOX		
01	R90727D1	▪ CONNECTOR, Deutsch, 16 Pin	1	
02		NOT USED		
03	R92458D5	▪ CONTACT PIN, Receptacle	16	
04	R92458D6	▪ RECEPTACLE, Right Rear Breakout Box, Control Cabinet	16	
05		▪ CABLE, 14AWG, 16 Cond (Not Shown)	1	
	205480262	▪ ▪ CABLE, 14AWG, 16 Cond (Not Shown)	25	Foot
06	R90727D8	▪ CONNECTOR, Deutsch, 16 Pin	1	

CABLE INSTALLATION, CHASSIS, REAR (Not Illustrated)

Item	Part No.	Description	Qty.	Page
	R111038F400	CABLE INSTALLATION, CHASSIS, REAR (Not Illustrated)		
01	R111038F401	▪ CABLE INSTALLATION, Hydraulic Tank, Rear	1	118
02	R89725F402	▪ CABLE INSTALLATION, Hydraulic Pump, Rear	1	119
03	R111038F403	▪ CABLE INSTALLATION, Coolers, Rear	1	120
04	R111038F404	▪ CABLE INSTALLATION, Lube, Rear	1	121
05	R89725F405	▪ CABLE INSTALLATION, Diverters	1	122
06	R111038F406	▪ CABLE INSTALLATION, Dust Control	1	123
07	R89725F407	▪ CABLE INSTALLATION, Mast Cylinder	1	124

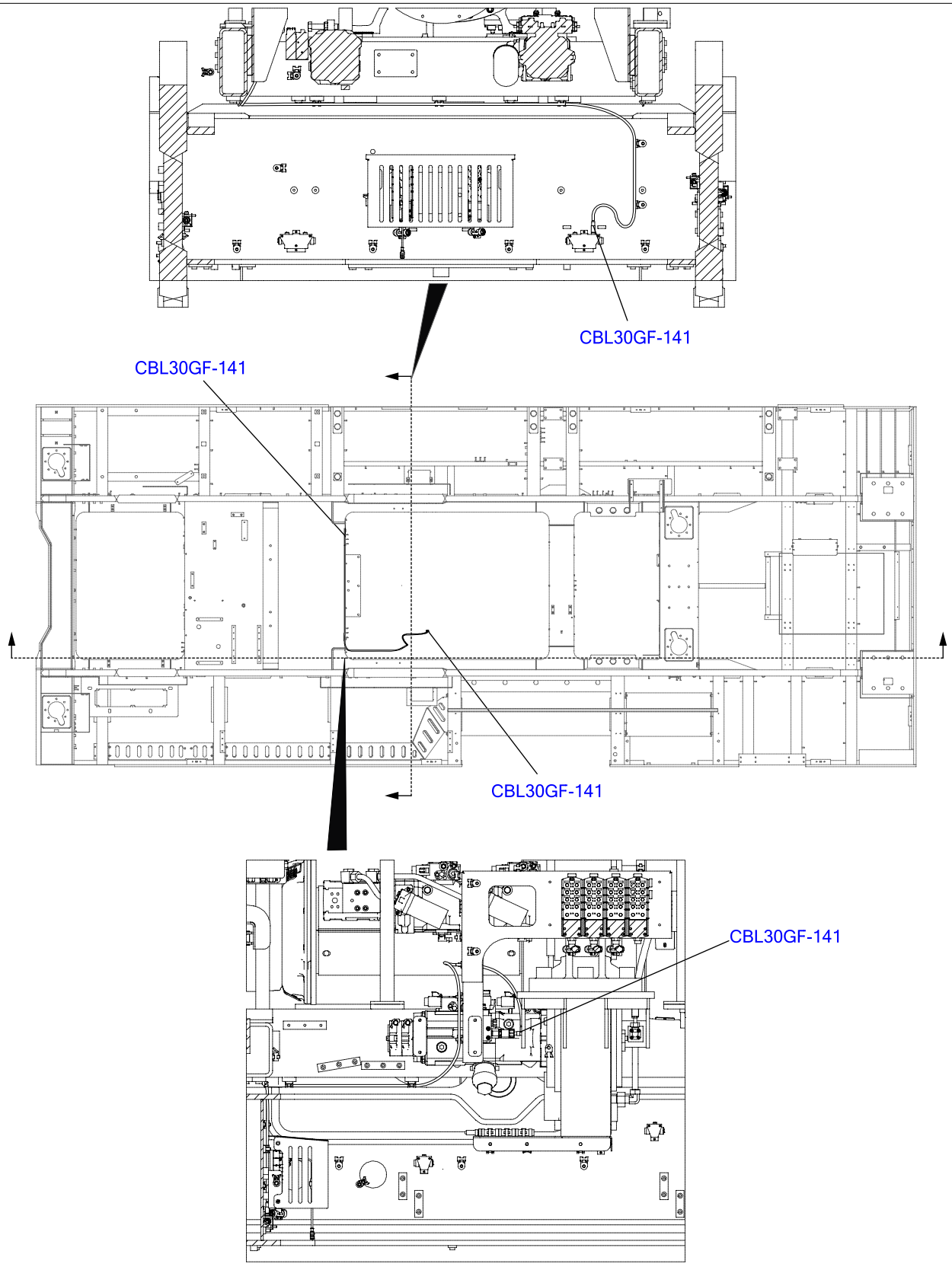
CABLE INSTALLATION, HYDRAULIC TANK, REAR



CABLE INSTALLATION, HYDRAULIC TANK, REAR

Item	Part No.	Description	Qty.
	R111038F401	CABLE INSTALLATION, HYDRAULIC TANK, REAR	
01	R111038F411	・WIRE LIST	1
CBL30EC-431	R90655T10D860	・・CABLE, 3-Pin	1
CBL30EA-352	R90651T12D90	・・CABLE, 5-Pin	1
CBL30EA-431	R90655T10D100	・・CABLE, 3-Pin	1
CBL30EC-021	R90650T11D200	・・CABLE, 4-Pin	1
CBL30EC-101	R9008181T1D200	・・CABLE, Form A	1
CBL30EC-181	R9008181T1D230	・・CABLE, Form A	1
CBL30EC-211	R90650T35D150	・・CABLE, Form C	1
CBL30EC-381	R90651T11D170	・・CABLE, 5-Pin	1
CBL30EA-351	R90651T13D210	・・CABLE, 5-Pin	1
CBL30EC-291	R90650T21D480	・・CABLE, 2-Pin	1
CBL16A-192	R90655T10D1470	・・CABLE, 3-Pin	1
CBL30EC-121	R90650T21D560	・・CABLE, 5-Pin	1
CBL30EC-041	R90650T31D700	・・CABLE, 4 Pin	1
CBL30EA-031	R90650T22D640	・・CABLE, 4 Pin	1
CBL30EA-271	R90650T22D640	・・CABLE, 4 Pin	1
CBL30EA-111	R90650T22D780	・・CABLE, 2-Pin	1
02	R88249D1	・CABLE TIES, Heavy Duty (Not Shown)	50

CABLE INSTALLATION, HYDRAULIC PUMP, REAR



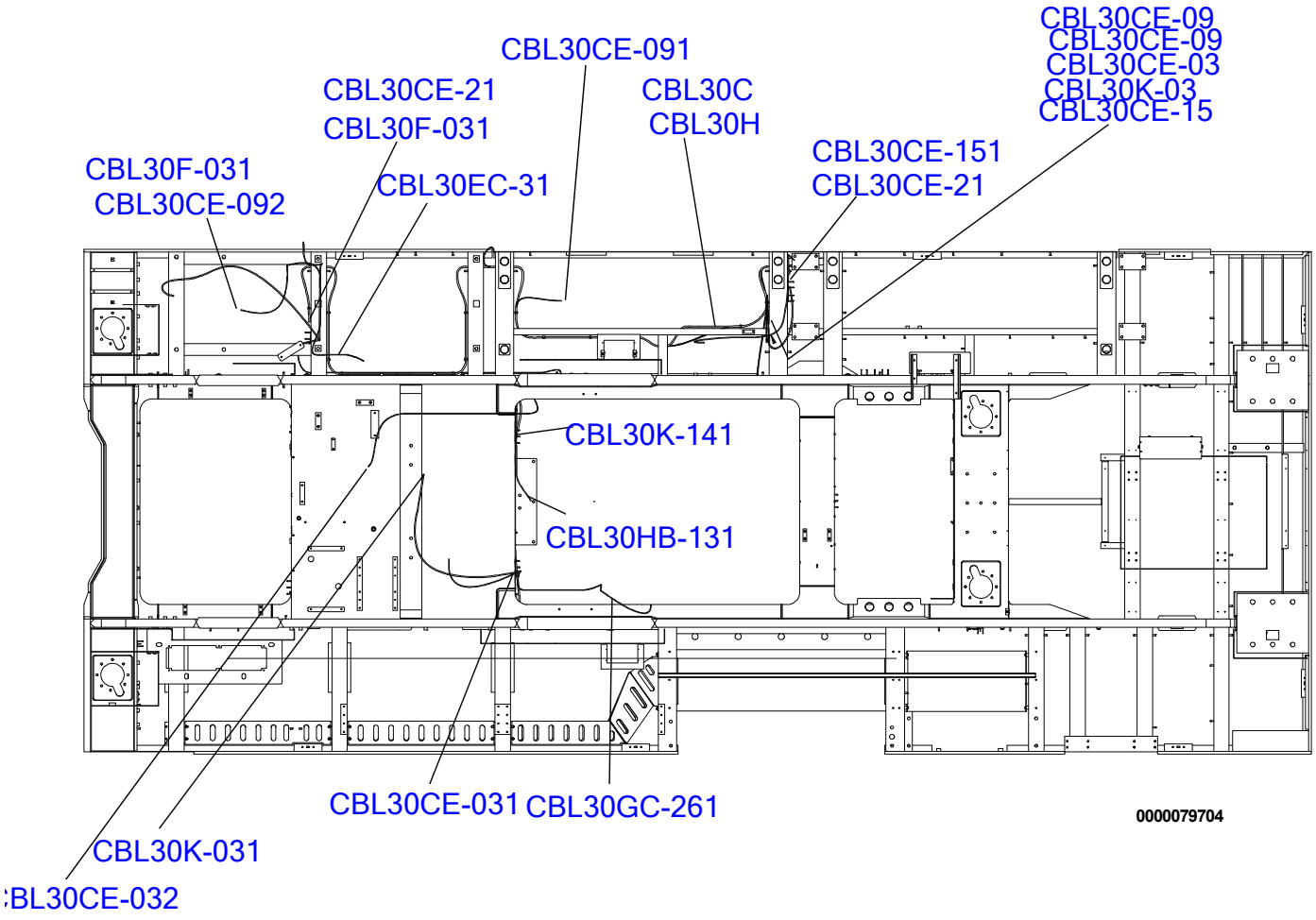
0000078749

CABLE INSTALLATION, CHASSIS, HYDRAULIC PUMP, REAR

CABLE INSTALLATION, HYDRAULIC PUMP, REAR

Item	Part No.	Description	Qty.
	R89725F402	CABLE INSTALLATION, HYDRAULIC PUMP, REAR	
01	R89740F402	▪ WIRE LIST, Hydraulic Pump, Rear	1
CBL30GF-141	R90651T13D400	▪ ▪ CABLE, 5 Pin	1
02	R88249D1	▪ TIE, Wire (Not Shown)	15

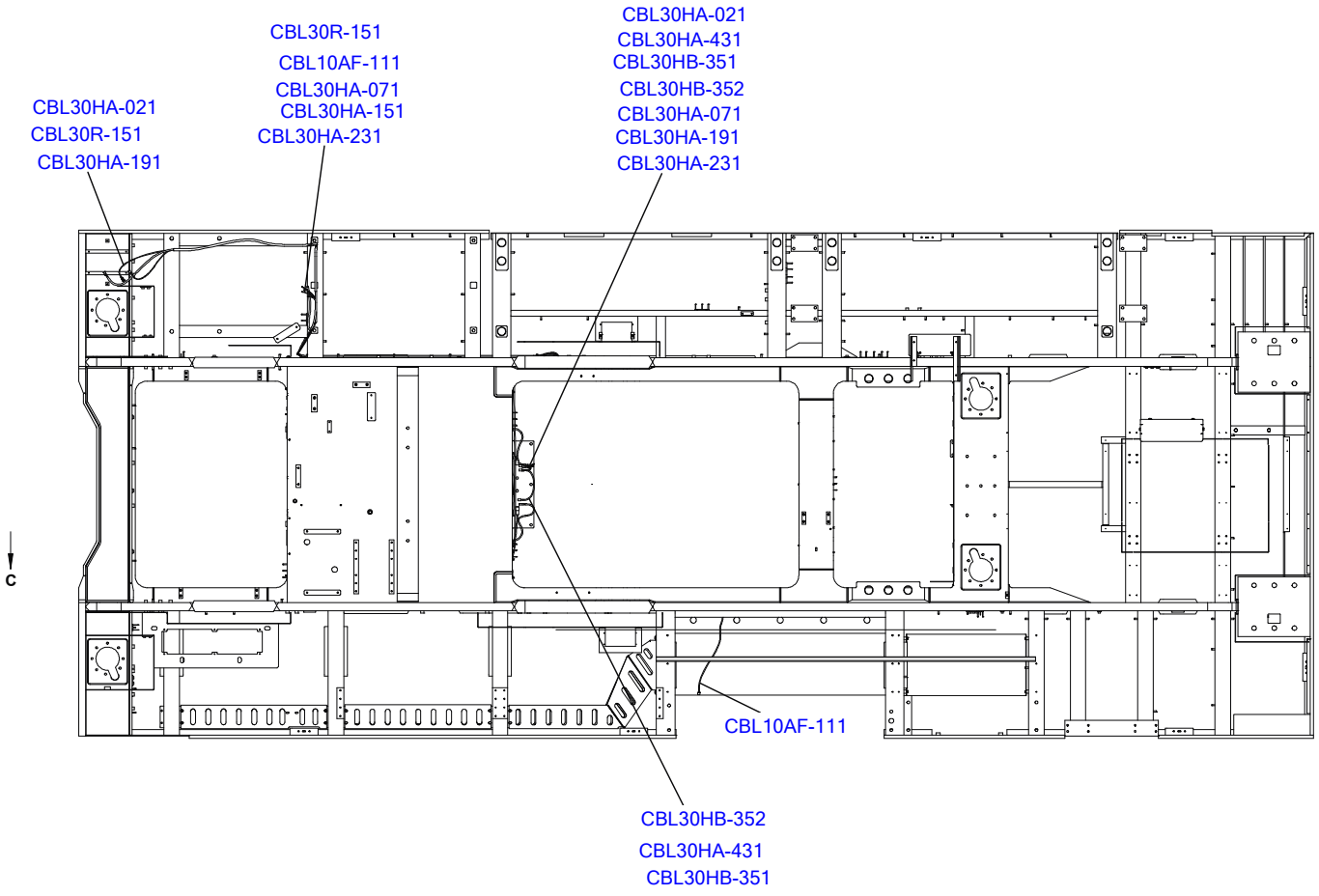
CABLE INSTALLATION, COOLERS, REAR



CABLE INSTALLATION, COOLERS, REAR

Item	Part No.	Description	Qty.
	R111038F403	CABLE INSTALLATION, Coolers, Rear	
CBL30EC-311	R90650T17D640	▪ CABLE, 5-Pin	1
CBL30CE-092	R90650T10D1000	▪ CABLE, 4-Pin	1
CBL30CE-151	R90651T11D100	▪ CABLE, 5-Pin	1
CBL30CE-211	R90652T10D800	▪ CABLE, 5-Pin	1
CBL30F-031	R90651T13D350	▪ CABLE, 5-Pin	1
CBL30CE-031	R90650T10D440	▪ CABLE, 4-Pin	1
CBL30HB-131	R90650T18D730	▪ CABLE, 4-Pin	1
CBL30CE-032	R90650T10D580	▪ CABLE, 4-Pin	1
CBL30CE-091	R90650T10D400	▪ CABLE, 4-Pin	1
CBL30K-031	R90651T10D270	▪ CABLE, 5-Pin	1
CBL30K-141	R90652T10D200	▪ CABLE, 5-Pin	1
12	R88249D1	▪ CABLE TIES, Heavy Duty (Not Shown)	50
CBL30GC-261	R90650T11D350	▪ CABLE, 4-Pin	1

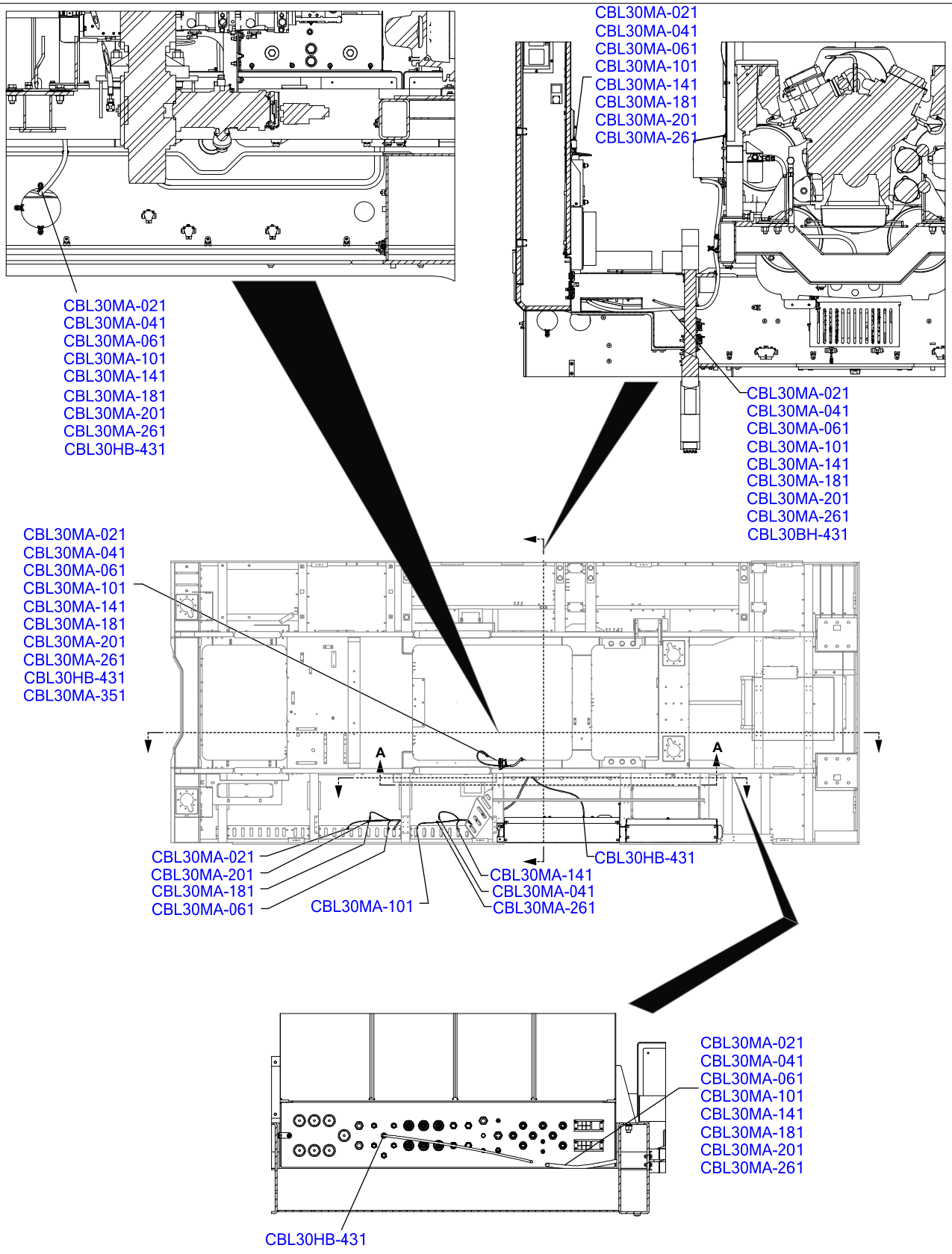
CABLE INSTALLATION, LUBE, REAR



CABLE INSTALLATION, LUBE, REAR

Item	Part No.	Description	Qty.	Unit
	R111038F404	CABLE INSTALLATION, LUBE, REAR		
CBL10AF-111		・CABLE, #10 AWG	1	
CBL10AF-AAA	205480383	・・CABLE, Power Lead-In	32	Foot
CBL30HB-351	R90651T10D80	・CABLE, 5-Pin	1	
CBL30HB-352	R90651T10D50	・CABLE, 5-Pin	1	
CBL30HA-431	R90655T10D100	・CABLE, 3-Pin	1	
CBL30HA-021	R90650T10D760	・CABLE, 4-Pin	1	
CBL30HA-191	R90650T21D760	・CABLE, 2-Pin	1	
CBL30HA-231	R90650T15D540	・CABLE, 4-Pin	1	
CBL30HA-071	R90650T15D540	・CABLE, 4-Pin	1	
CBL30HA-151	R90650T15D540	・CABLE, 4-Pin	1	
CBL30R-151	R88494D400	・CABLE, Deutsch	1	
11	R108702D13	・GROMMET (Not Shown)	1	
12	R88249D1	・CABLE TIES, Heavy Duty (Not Shown)	50	

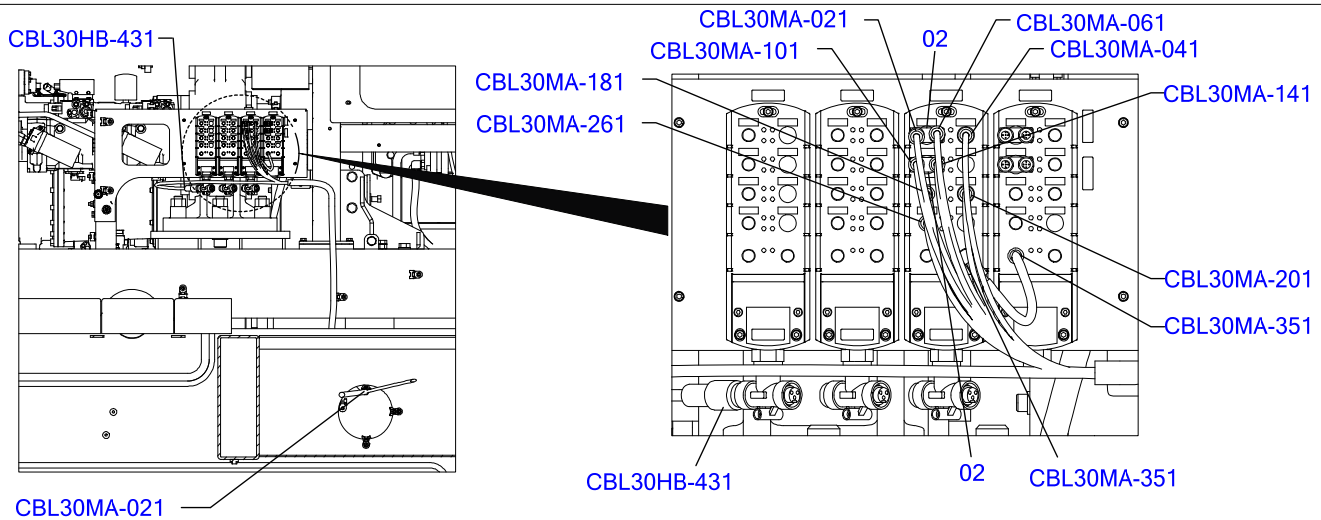
CABLE INSTALLATION, DIVERTERS



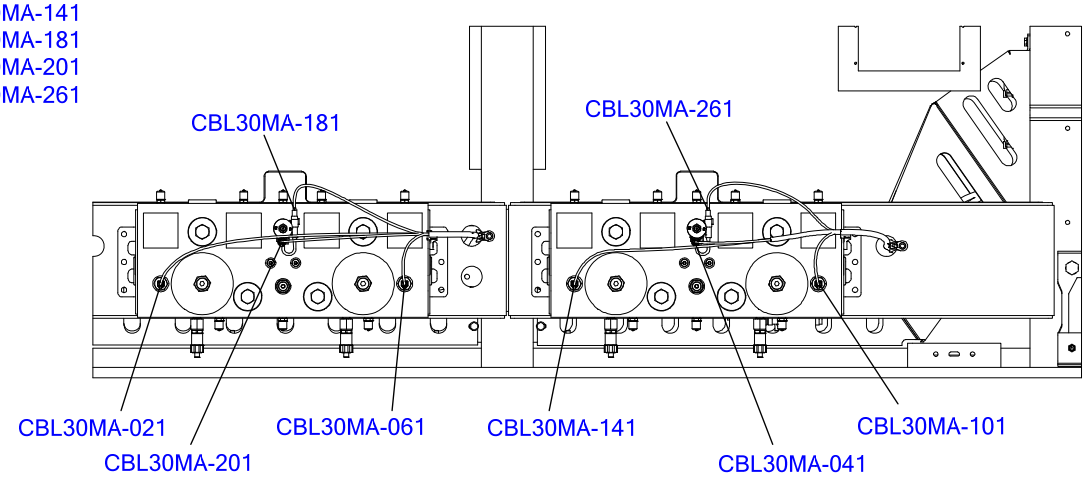
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TOP VIEW

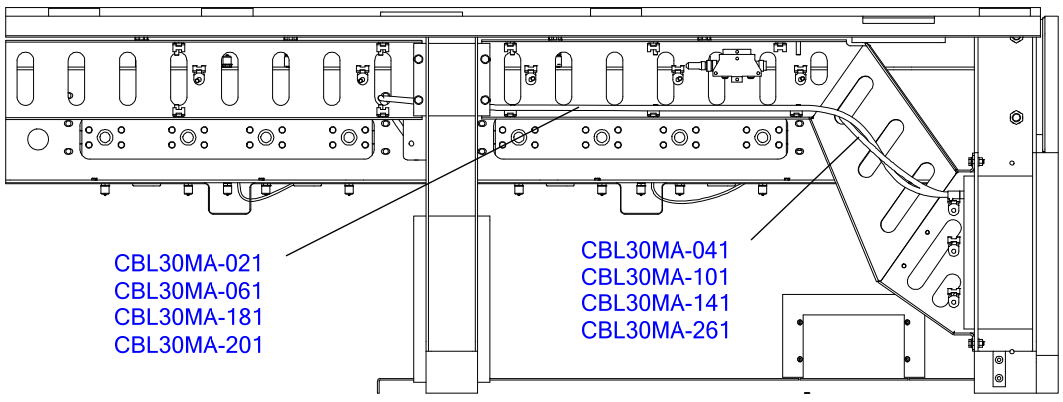
CABLE INSTALLATION, DIVERTERS



CBL30MA-021
CBL30MA-041
CBL30MA-061
CBL30MA-101
CBL30HB-431
CBL30MA-141
CBL30MA-181
CBL30MA-201
CBL30MA-261



TOP VIEW



BOTT OM VIEW

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SECTION A-A

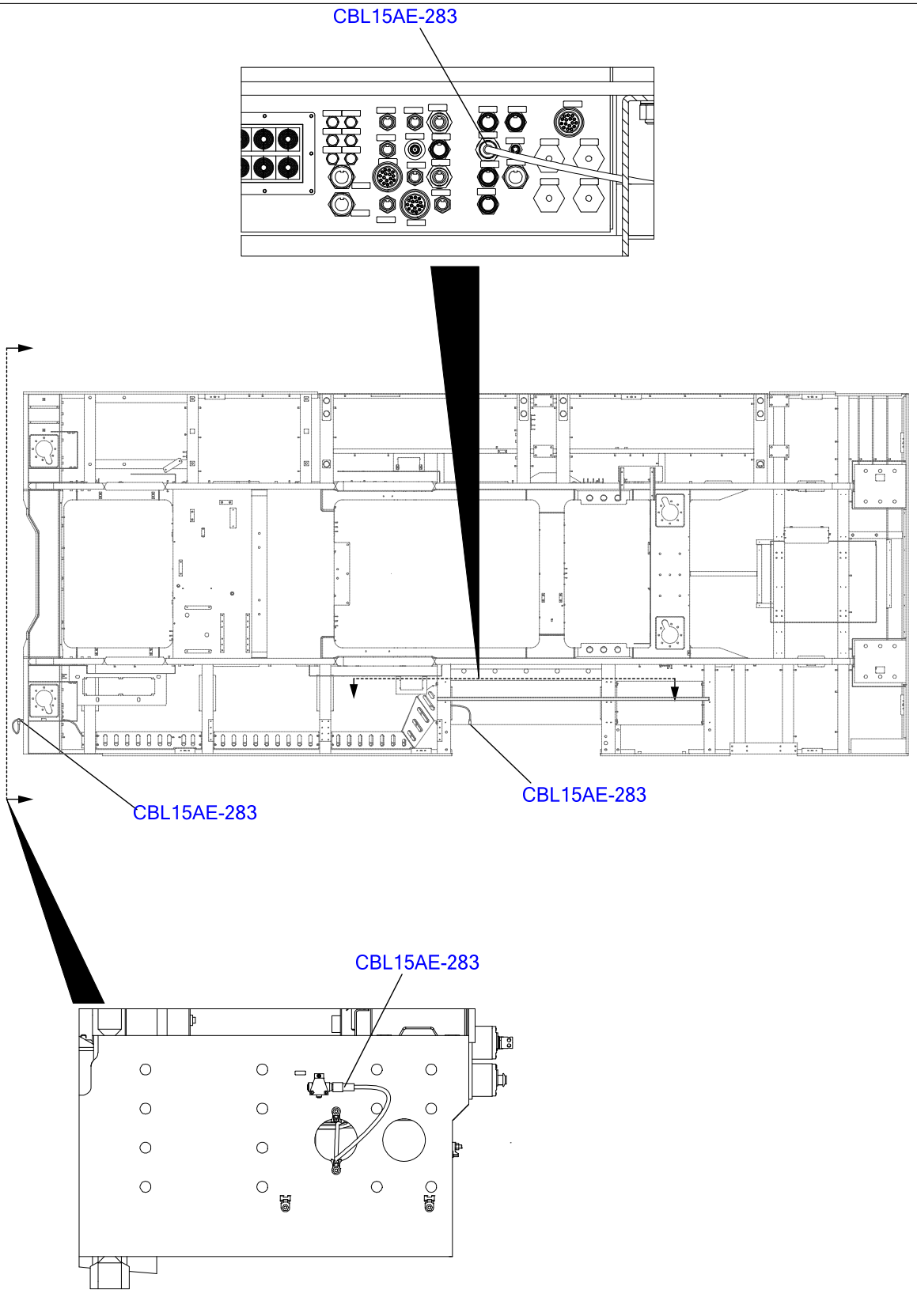
CABLE INSTALLATION, DIVERTERS

Item	Part No.	Description	Qty.
	R89725F405	INSTALL,CABLE,CHASSIS,DIVERTERS	
01	R89740F405	・WIRE LIST, Diverters	1
CBL30MA-021	R90650T20D580	・・CABLE, 2 Pin	1
CBL30MA-041	R90650T21D420	・・CABLE, 2 Pin	1
CBL30MA-061	R90650T20D520	・・CABLE, 2 Pin	1
CBL30MA-101	R90650T20D400	・・CABLE, 2 Pin	1
CBL30MA-141	R90650T20D450	・・CABLE, 2 Pin	1
CBL30MA-181	R90650T10D540	・・CABLE, 4 Pin	1
CBL30MA-201	R90650T21D540	・・CABLE, 2 Pin	1
CBL30MA-261	R90651T10D420	・・CABLE, 5 Pin	1
CBL30HB-431	R90655T10D370	・・CABLE, 3 Pin	1
CBL30MA-351	R90651T11D40	・・CABLE, 5 Pin	1
02	R91485D1	・Y-SPLITTER, CAN	2
03	R88249D1	・TIE, Wire (Not Shown)	25

CABLE INSTALLATION, DUST CONTROL

Item	Part No.	Description	Qty.
	R111038F406	CABLE INSTALLATION, DUST CONTROL	
CBL15AE-373	R90652T10D690	· CABLE, 5 Pin	1
CBL30MC-431	R90655T10D900	· CABLE, 3 Pin, 10A	1
CBL30HB-221	R90650T22D530	· CABLE, 2 Pin, 4 A	1
CBL13EC-242	R90656T10D800	· CABLE, 12 Pin, 7A	1
CBL30HB-062	R90650T15D310	· CABLE, 4 PIN, 4 A	1
CBL30HB-061	R90650T15D310	· CABLE, 4 PIN, 4 A	1
CBL16A-292	R90655T10D690	· CABLE, 3 PIN, 10A	1
CBL16A-342	R90655T10D690	· CABLE, 3 PIN, 10A	1
CBL18CA-092	R90660F1	· CABLE, Breakout Box	1
CBL18CG-052	R90660F1	· CABLE, Breakout Box	1
CBL13EC-312	R90656T10D570	· CABLE, 12 PIN, 7 A	1
CBL15AF-371	R90652T10D700	· CABLE, 5 PIN	1
CBL35T-022	R90651T12D360	· CABLE, 5 PIN	1
CBL35T-092	R90651T12D320	· CABLE, 5 PIN	1
CBL35T-312	R90651T12D470	· CABLE, 5 PIN	1
CBL35T-382	R90651T12D430	· CABLE, 5 PIN	1
CBL35T-431	R90652T12D40	· CABLE, 5 PIN	1
CBL18CA-092-1	R115669F1	· CABLE, Breakout Box, Extension	1
19	R88249D1	· TIES, Cable, Heavy Duty	25

CABLE INSTALLATION, MAST CYLINDER



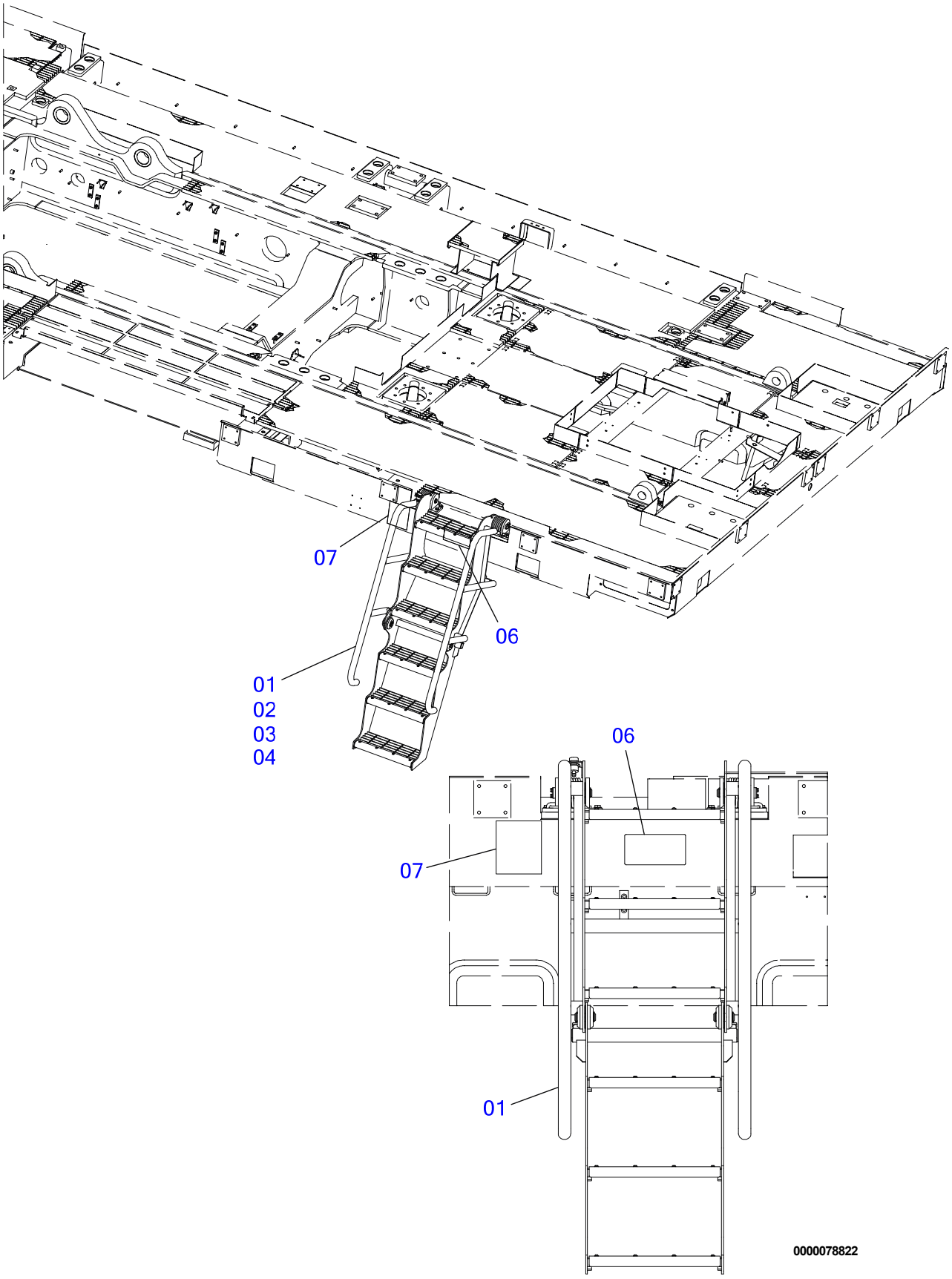
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CABLE INSTALLATION, MAST CYLINDER

CABLE INSTALLATION, MAST CYLINDER

Item	Part No.	Description	Qty.
	R89725F407	CABLE INSTALLATION, MAST CYLINDER	
01	R89740F407	▪ WIRE LIST, Mast Cylinder	1
CBL15AE-283	R90652T10D620	▪ ▪ CABLE, 5 Pin	1
02	R88249D1	▪ TIE, Wire (Not Shown)	25

STAIR ASSEMBLY, MAINFRAME



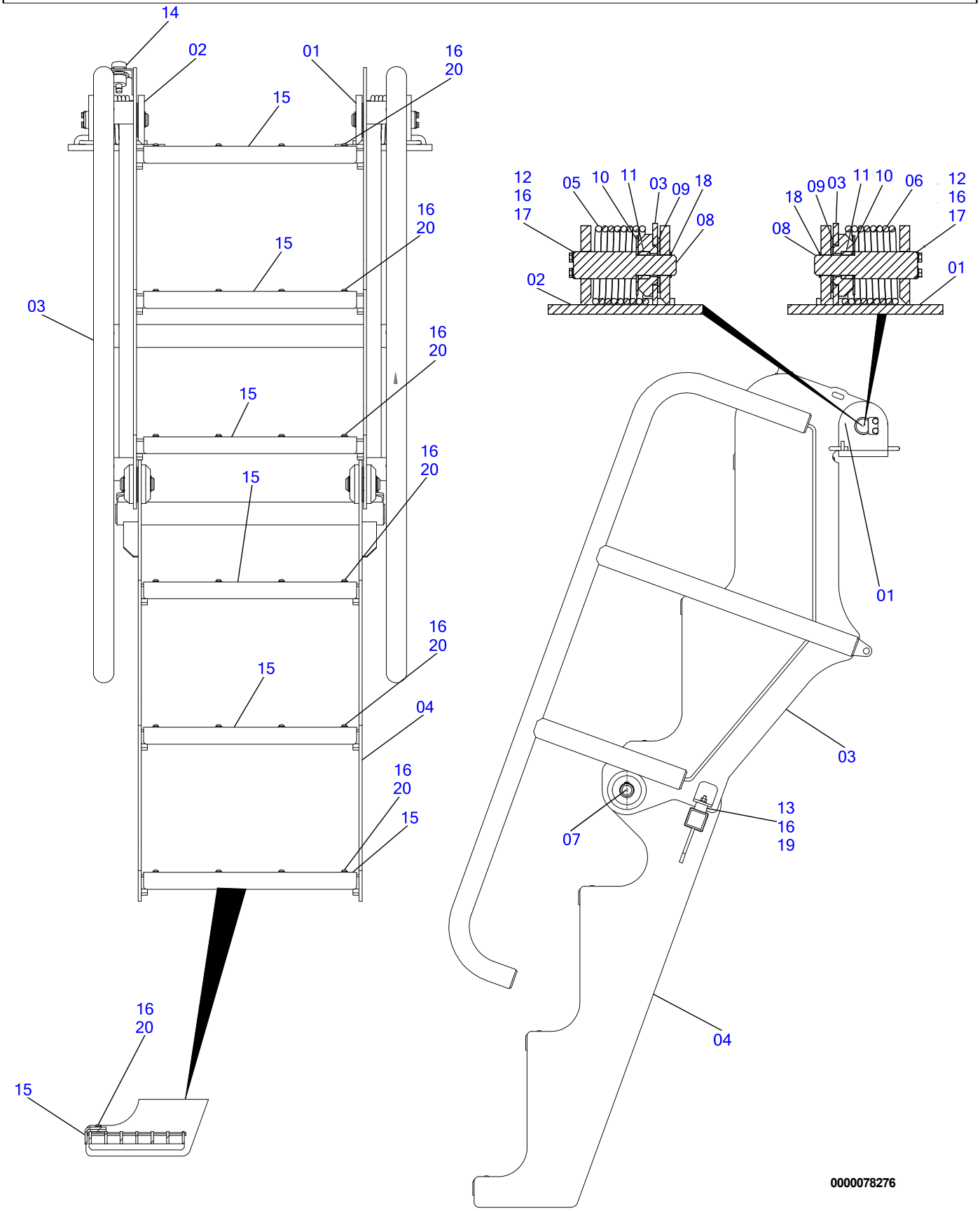
INSTALLATION, STAIR ASSEMBLY, MAINFRAME

KOMATSU

STAIR ASSEMBLY, MAINFRAME

Item	Part No.	Description	Qty.	Page
	R103306F2	STAIR ASSEMBLY, MAINFRAME		
01	R107771F1	▪ ACCESS LADDER, Auxiliary	1	126
02	0825M12065	▪ BOLT, Hex Hd	8	
03	3648M012	▪ WASHER, Hardened	16	
04	2104M012	▪ NUT, Hex	8	
05	21Z772D4	▪ COMPOUND, Sealing and Locking	1	
06	R89990D1	▪ DECAL, Crush or Pinch Area	1	
07	R83396D1	▪ DECAL, Warning, Silica Dust (English)	1	

ACCESS LADDER, AUXILLARY

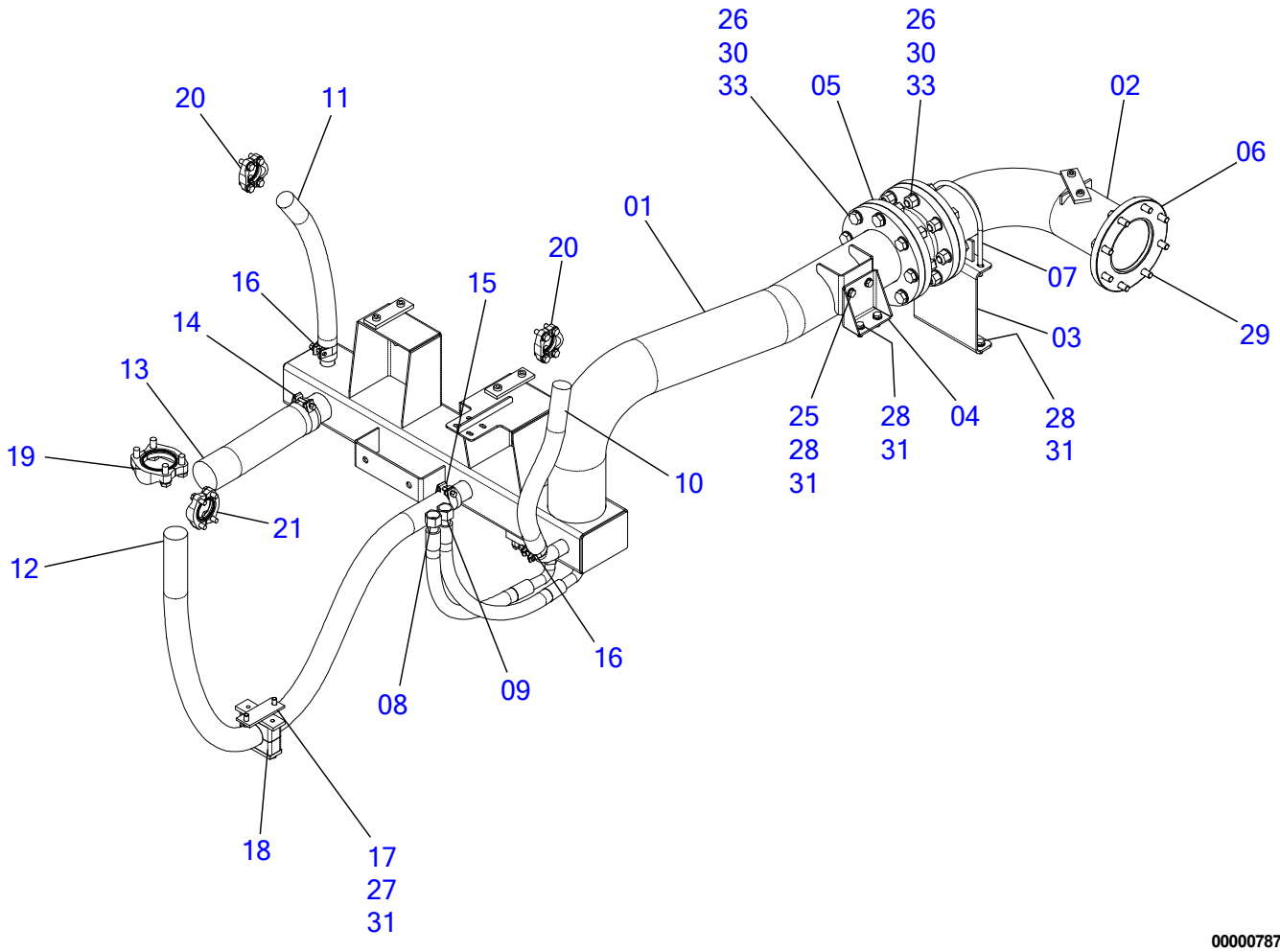


ACCESS LADDER, AUX

ACCESS LADDER, AUXILLARY

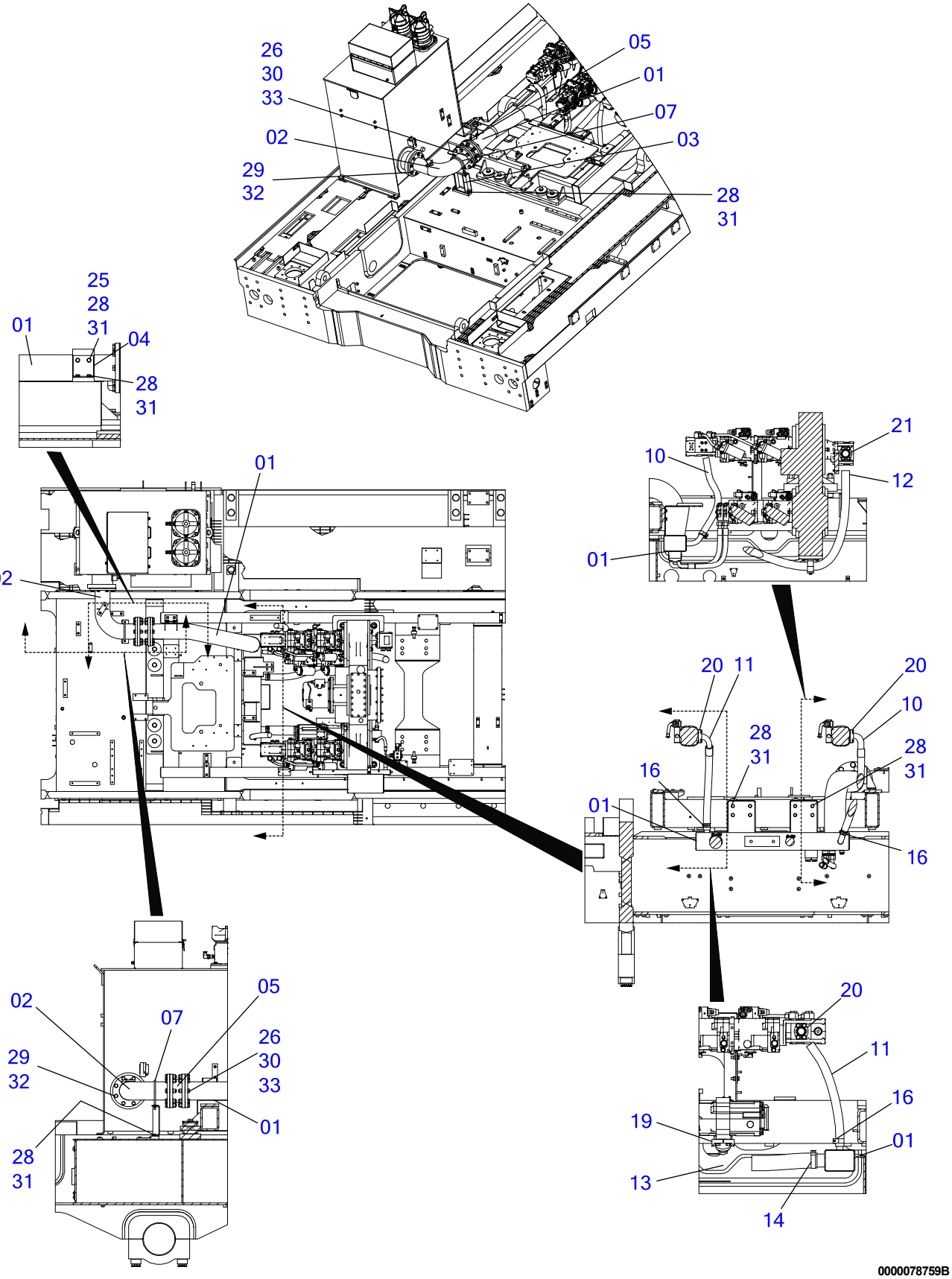
Item	Part No.	Description	Qty.
	R107771F1	ACCESS LADDER, AUXILLARY	
01	R90254D2	· BRACKET, Right Side	1
02	R90255D2	· BRACKET, Left Side	1
03	R107769D2	· AUXILIARY STAIRS, Upper	1
04	R107770D2	· AUXILIARY STAIRS, Lower	1
05	R90259D1	· SPRING, Torsion - RH	1
06	R90259D2	· SPRING, Torsion - LH	1
07	R90253D1	· PIN	2
08	R90252D1	· PIN	2
09	R13548D4	· WASHER, Thrust	4
10	R13548D5	· WASHER, Thrust	2
11	R90250D1	· BUSHING, Auxiliary Ladder	6
12	R97677D1	· BLOCK, Stop	2
13	R99028D1	· BUMPER, Rubber - Medium	2
14	R90575D1	· SWITCH, Proximity - Mast Carriage	1
15	R106272D1	· NOSE PLATE	6
16	3648M006	· WASHER, Hardened	30
17	0825M06020	· BOLT, Hex Hd	4
18	R89724D26	· RING, Snap	6
19	2104M006	· NUT, Hex	2
20	0836M06016	· SCREW	24

INSTALLATION, HYDRAULIC SUCTION



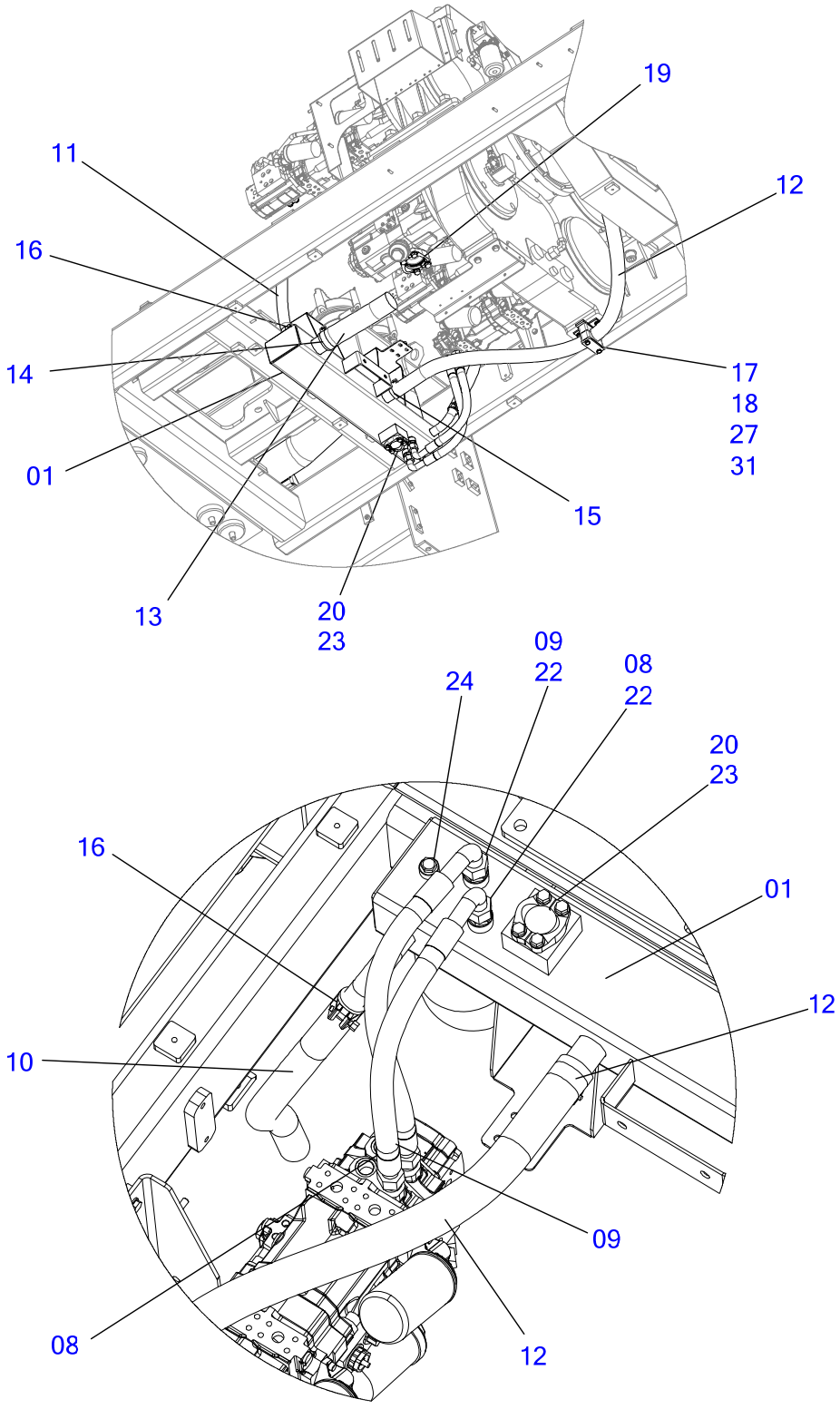
ISO VIEW

INSTALLATION, HYDRAULIC SUCTION



TOP VIEW

INSTALLATION, HYDRAULIC SUCTION



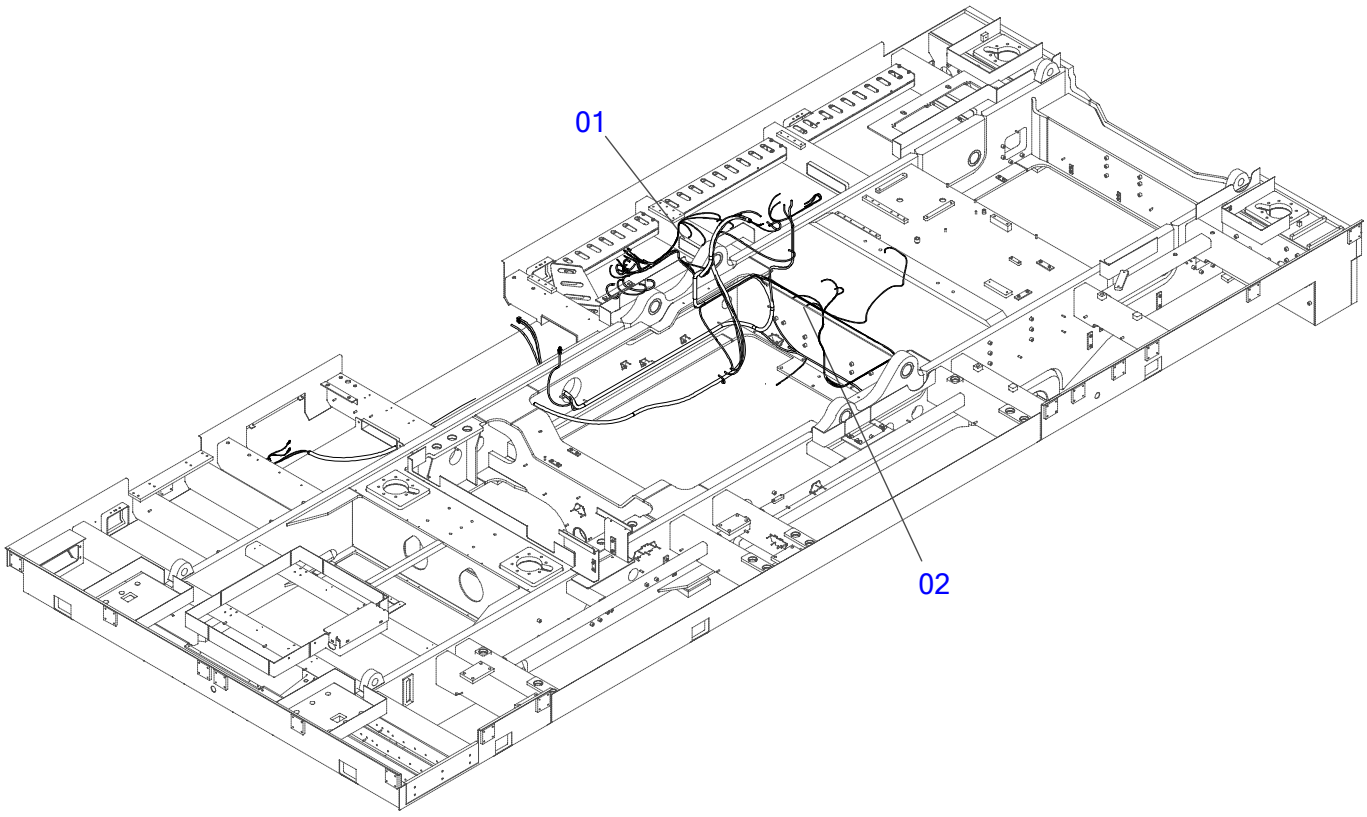
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BOTTOM VIEW

INSTALLATION, HYDRAULIC SUCTION

Item	Part No.	Description	Qty.
	R99467F4	INSTALLATION, HYDRAULIC SUCTION	
01	R107901D1	▪ HEADER, Hydraulic Suction	1
01A	R88707D4	▪ ▪ PLATE, Clamp	2
01B	R117342D1	▪ ▪ ADAPTER BLOCK	1
01C	R78959D3	▪ ▪ COUPLING, Half	1
01D	R78959D5	▪ ▪ COUPLING, Half	2
02	R99406D1	▪ TUBE, Hydraulic Suction	1
03	R99465D2	▪ WELDMENT, Pipe Stand	1
04	R99404D1	▪ BRACKET, Mounting	1
05	R92769D2	▪ JOINT, Expansion	1
06	R99654D1	▪ GASKET	1
07	20Q3D19	▪ U-BOLT	1
08	R81846T16D26	▪ HOSE ASSEMBLY	1
09	R81846T16D27	▪ HOSE ASSEMBLY	1
10	R99482T24D71	▪ HOSE ASSEMBLY	1
11	R99482T24D73	▪ HOSE ASSEMBLY	1
12	R99482T32D200	▪ HOSE ASSEMBLY	1
13	R99482T48D56	▪ HOSE ASSEMBLY	1
14	R84807D21	▪ CLAMP, T-Bolt	1
15	R84807D16	▪ CLAMP, T-Bolt	1
16	R84807D13	▪ CLAMP, T-Bolt	2
17	R99440D1	▪ WELDMENT, Clamp Base	1
18	R78953D40	▪ CLAMP	1
19	R87258D8	▪ KIT, Split Flange	1
20	R87258D5	▪ KIT, Split Flange	3
21	R87258D6	▪ KIT, Split Flange	1
22	44Z485D24	▪ CONNECTOR	2
23	44T842D9	▪ PLUG, Flange	1
24	44Z536D5	▪ PLUG	1
25	2104M012	▪ NUT, Hex	2
26	2104M020	▪ NUT, Hex	16
27	0825M12025	▪ BOLT, Hex Hd	2
28	0825M12030	▪ BOLT, Hex Hd	14
29	0825M16050	▪ BOLT, Hex Hd	8
30	0825M20080	▪ BOLT, Hex Hd	16
31	3612M012	▪ WASHER, Plain	18
32	3612M016	▪ WASHER, Plain	8
33	3612M020	▪ WASHER, Plain	32

CABLE INSTALLATION, ENGINE

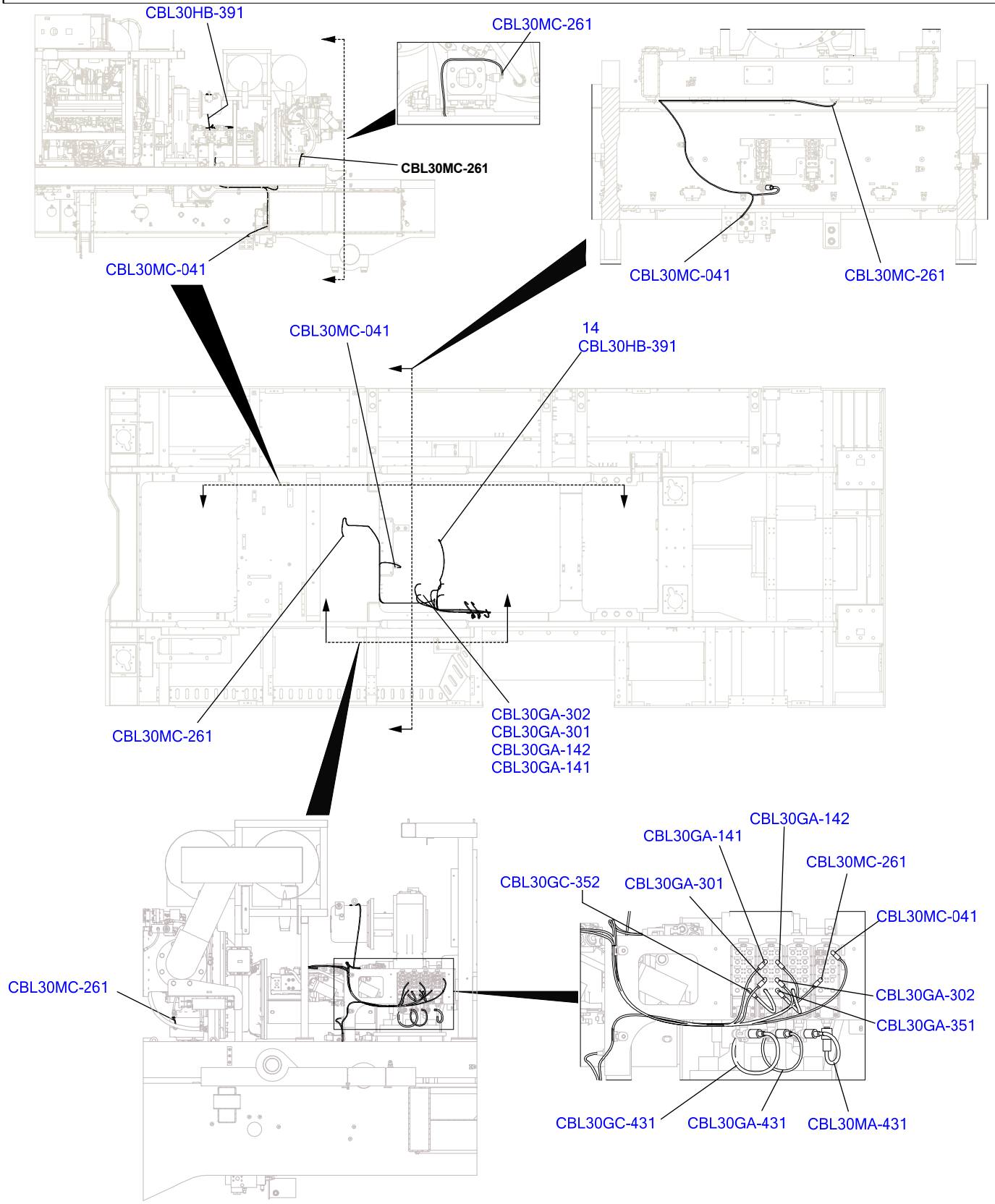


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CABLE INSTALLATION, ENGINE

Item	Part No.	Description	Qty.	Page
	R111038F4100	CABLE INSTALLATION, ENGINE		
01	R111038F4101	▪ CABLE INSTALLATION, Engine, Right	1	129
02	R111038F4102	▪ CABLE INSTALLATION, Engine, Left	1	130

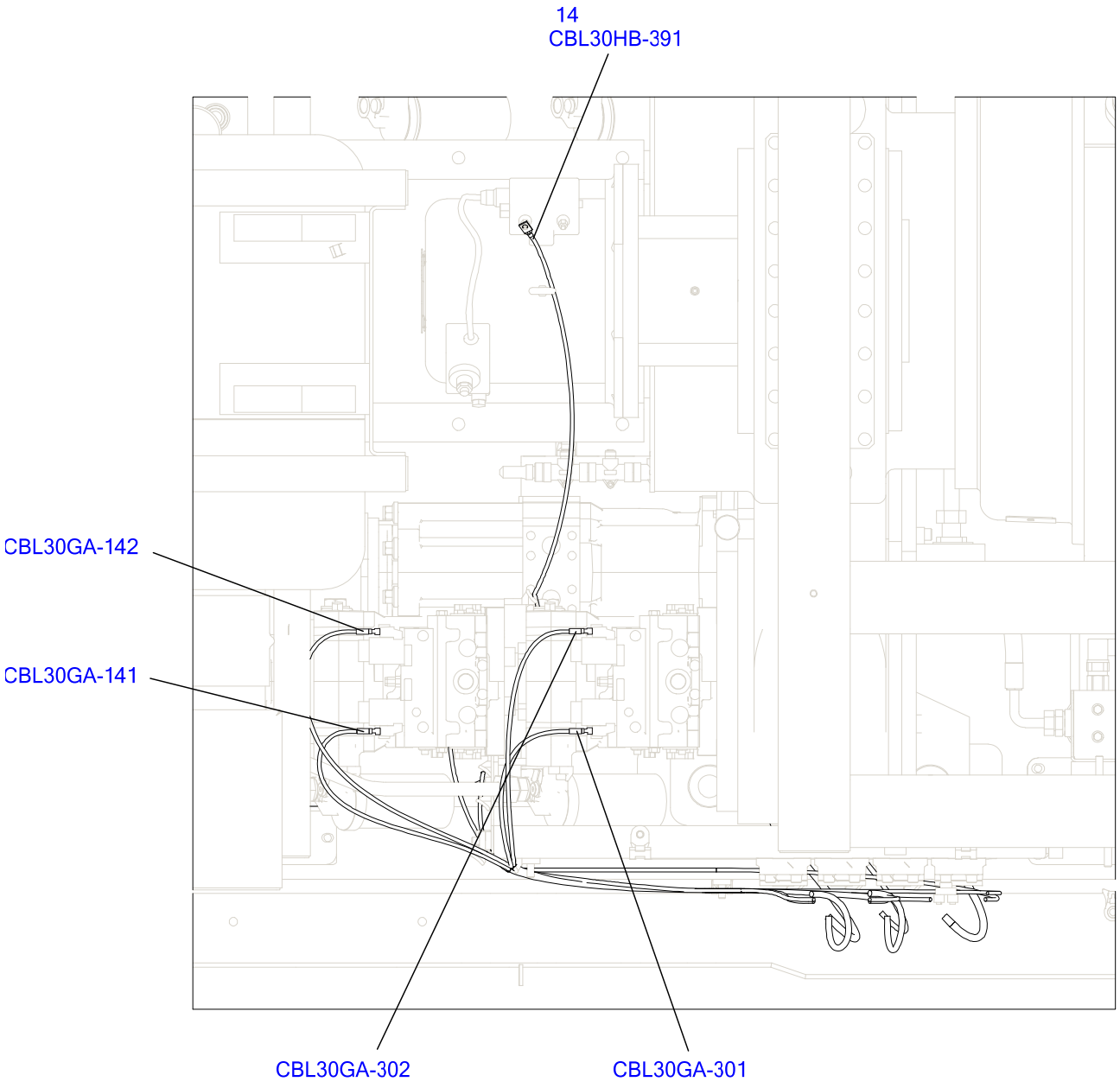
CABLE INSTALLATION, ENGINE, RIGHT



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CABLE INSTALLATION, ENGINE, RIGHT

CABLE INSTALLATION, ENGINE, RIGHT



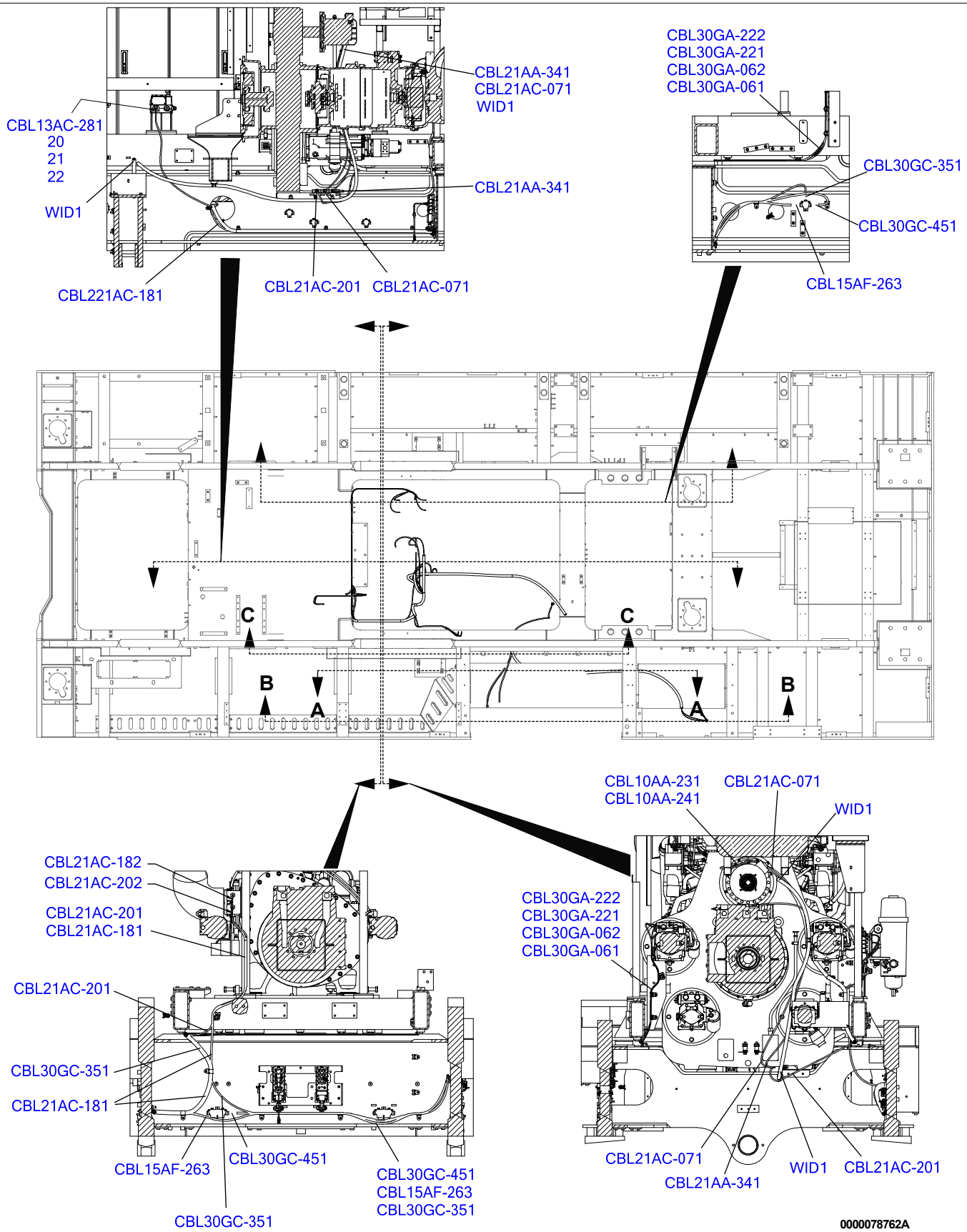
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TOP VIEW

CABLE INSTALLATION, ENGINE, RIGHT

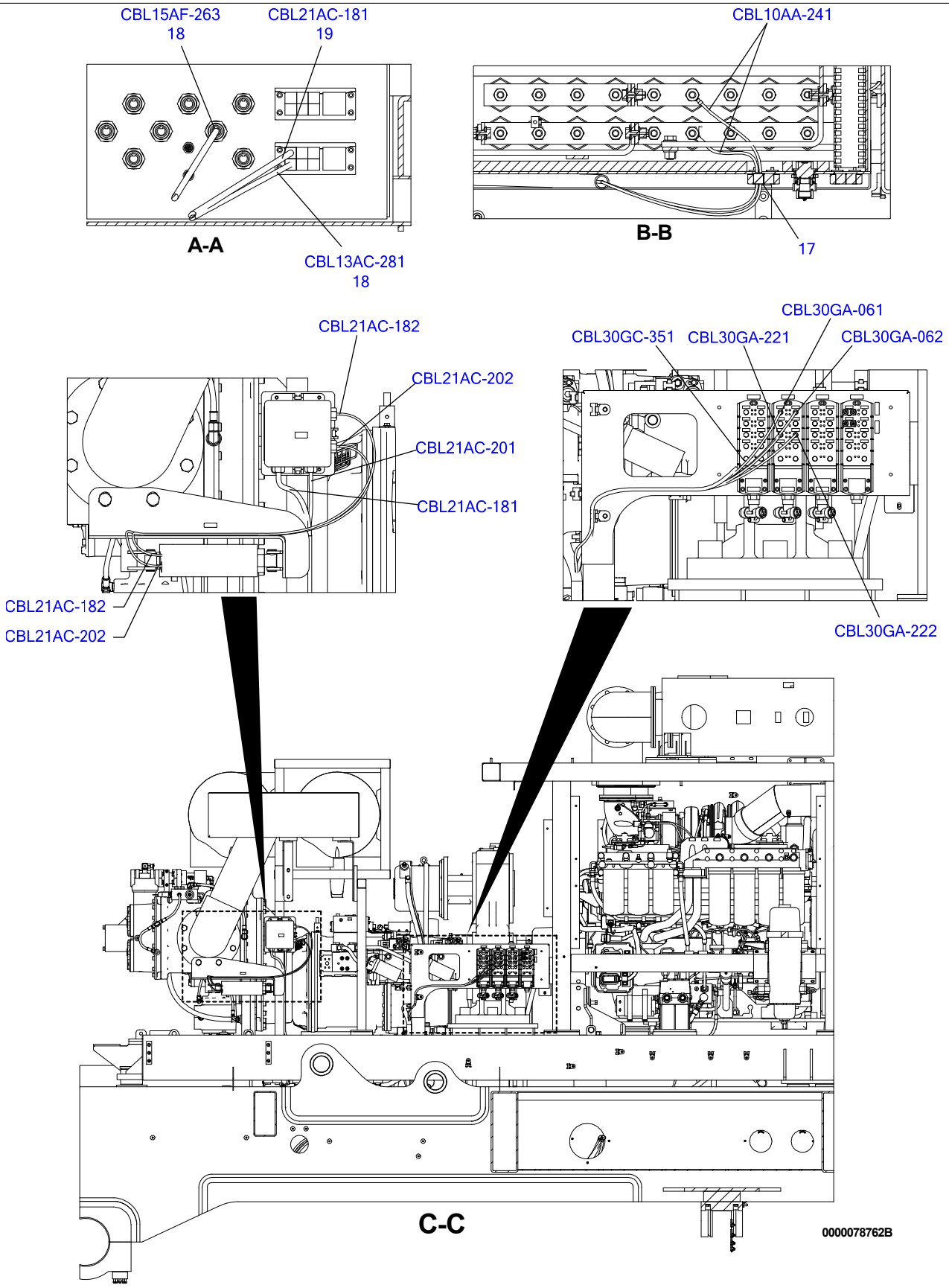
Item	Part No.	Description	Qty.
	R111038F4101	CABLE INSTALLATION, ENGINE, RIGHT	
01	R111038F4101Y1	▪ SHRINK TUBING, Clear (Not Shown)	1
CBL30GA-141	R90650T22D150	▪ CABLE, 2 Pin	1
CBL30GA-142	R90650T22D150	▪ CABLE, 2 Pin	1
CBL30GA-301	R90650T22D150	▪ CABLE, 2 Pin	1
CBL30GA-302	R90650T22D150	▪ CABLE, 2 Pin	1
CBL30MA-431	R90655T10D50	▪ CABLE, 3 Pin	1
CBL30MC-261	R90650T17D400	▪ CABLE, 4 Pin	1
CBL30GC-352	R90651T11D50	▪ CABLE, 5 Pin	1
CBL30GC-431	R90655T10D70	▪ CABLE, 3 Pin	1
CBL30GA-351	R90651T11D50	▪ CABLE, 5 Pin	1
CBL30GA-431	R90655T10D70	▪ CABLE, 3 Pin	1
CBL30HB-391	R90655T15D330	▪ CABLE, 3 Pin	1
CBL30MC-041	R90650T21D390	▪ CABLE, 2 Pin	1
14	79U2522D4	▪ TERMINAL LUG	1
15	R88249D1	▪ TIE, Wire (Not Shown)	50

CABLE INSTALLATION, ENGINE, LEFT



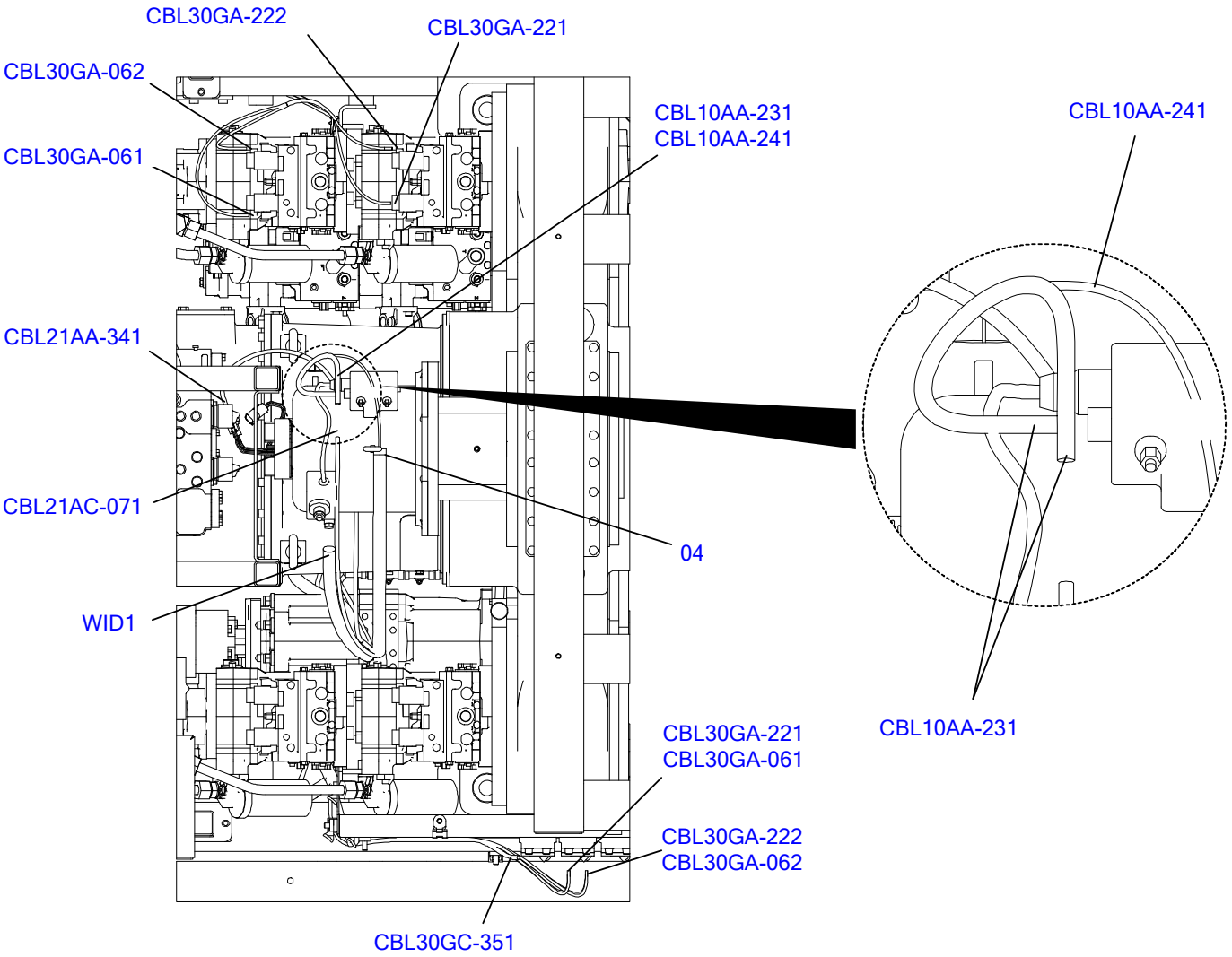
TOP VIEW 1

CABLE INSTALLATION, ENGINE, LEFT



SECTIONS A-A, B-B & C-C

CABLE INSTALLATION, ENGINE, LEFT



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TOP VIEW 2

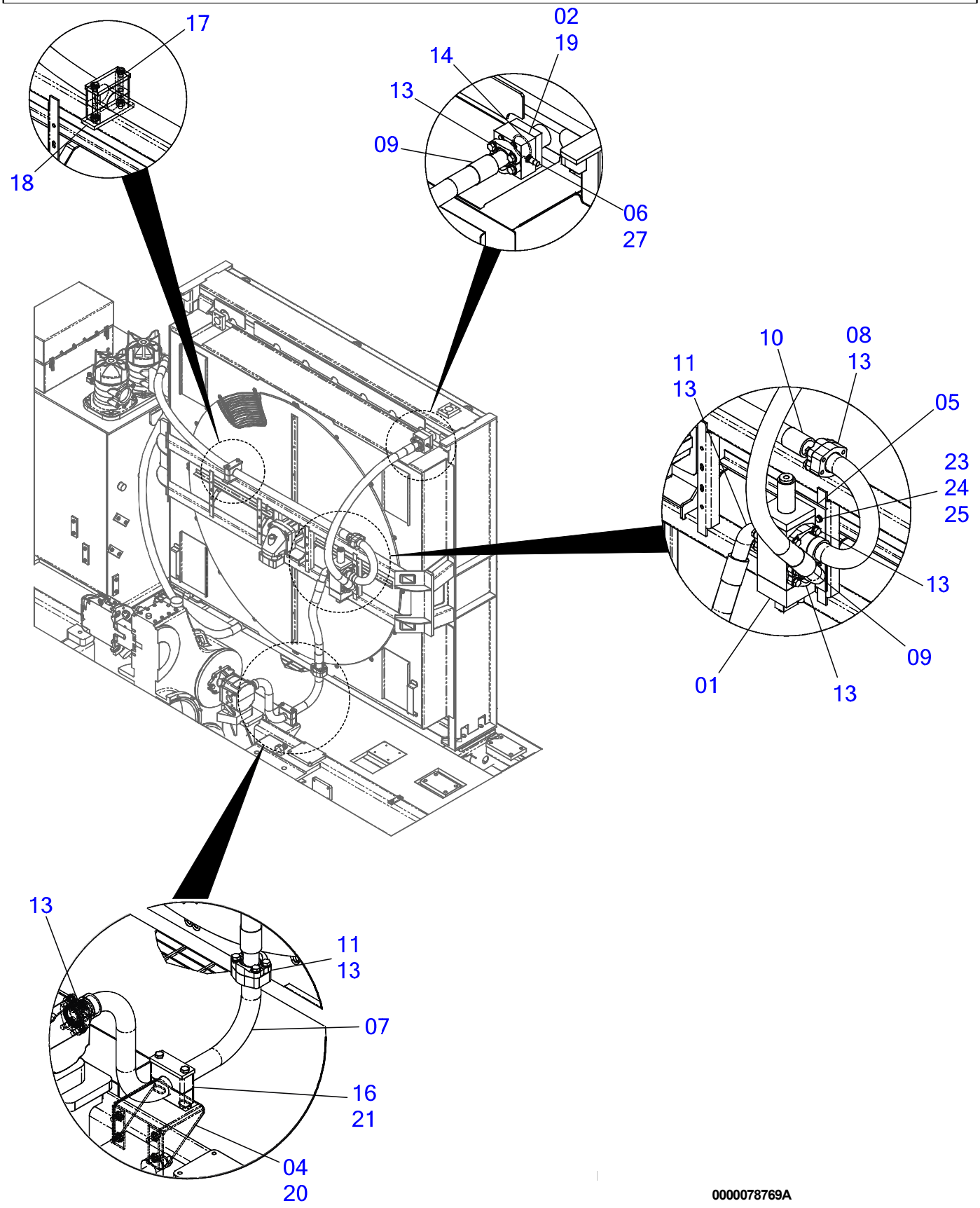
CABLE INSTALLATION, ENGINE, LEFT

Item	Part No.	Description	Qty.	Unit
	R111038F4102	CABLE INSTALLATION, ENGINE, LEFT		
		▪ CABLE, 262 MCM, Black	1	
WID1	505581765	▪ ▪ CABLE, 262 MCM, Black	15	Foot
		▪ CABLE, 14AWG, 3 Cond	1	
CBL21AC-181	201280251	▪ ▪ CABLE, 14AWG, 3 Cond	22	Foot
		▪ CABLE, 16AWG, 2 Cond	1	
CBL13AC-281	201280150	▪ ▪ CABLE, 16AWG, 2 Cond	15	Foot
		▪ CONDUIT, Flexible	1	
04	304B13180	▪ ▪ CONDUIT, Flexible	25	Foot
CBL30GA-061	R90650T22D550	▪ CABLE, 2 Pin	1	
CBL30GA-062	R90650T22D550	▪ CABLE, 2 Pin	1	
CBL30GA-221	R90650T22D550	▪ CABLE, 2 Pin	1	
CBL30GA-222	R90650T22D550	▪ CABLE, 2 Pin	1	
CBL21AC-071	R90651T20D200	▪ CABLE, 3 Pin	1	
CBL21AC-201	R90651T15D300	▪ CABLE, 5 Pin	1	
CBL10AA-231	R112136D1	▪ CABLE, Temp Comp, Leader	1	
CBL10AA-241	R112136D1	▪ CABLE, Temp Comp, Leader	1	
CBL21AA-341	R90651T21D250	▪ CABLE, 3 Pin	1	
CBL30GC-451	R90652T10D250	▪ CABLE, 5 Pin	1	
CBL15AF-263	R90652T10D540	▪ CABLE, 5 Pin	1	
CBL30GC-351	R90651T13D450	▪ CABLE, 5 Pin	1	
16		NOT USED		
17	R111731D2	▪ GROMMET, Dual Clamping	1	
18	R108702D8	▪ GROMMET, Small	1	
19	R108702D10	▪ GROMMET, Small	1	
20	85Z24D39	▪ CORD GRIP	1	
21	0944V014	▪ LOCKNUT, Conduit	1	
22	R111320D1	▪ CONNECTOR, Spring Pressure (2 Conductor)	1	
23		NOT USED		
24	R88249D1	▪ TIE, Wire (Not Shown)	50	

CABLE INSTALLATION, CHASSIS, CUMMINS TIER 4

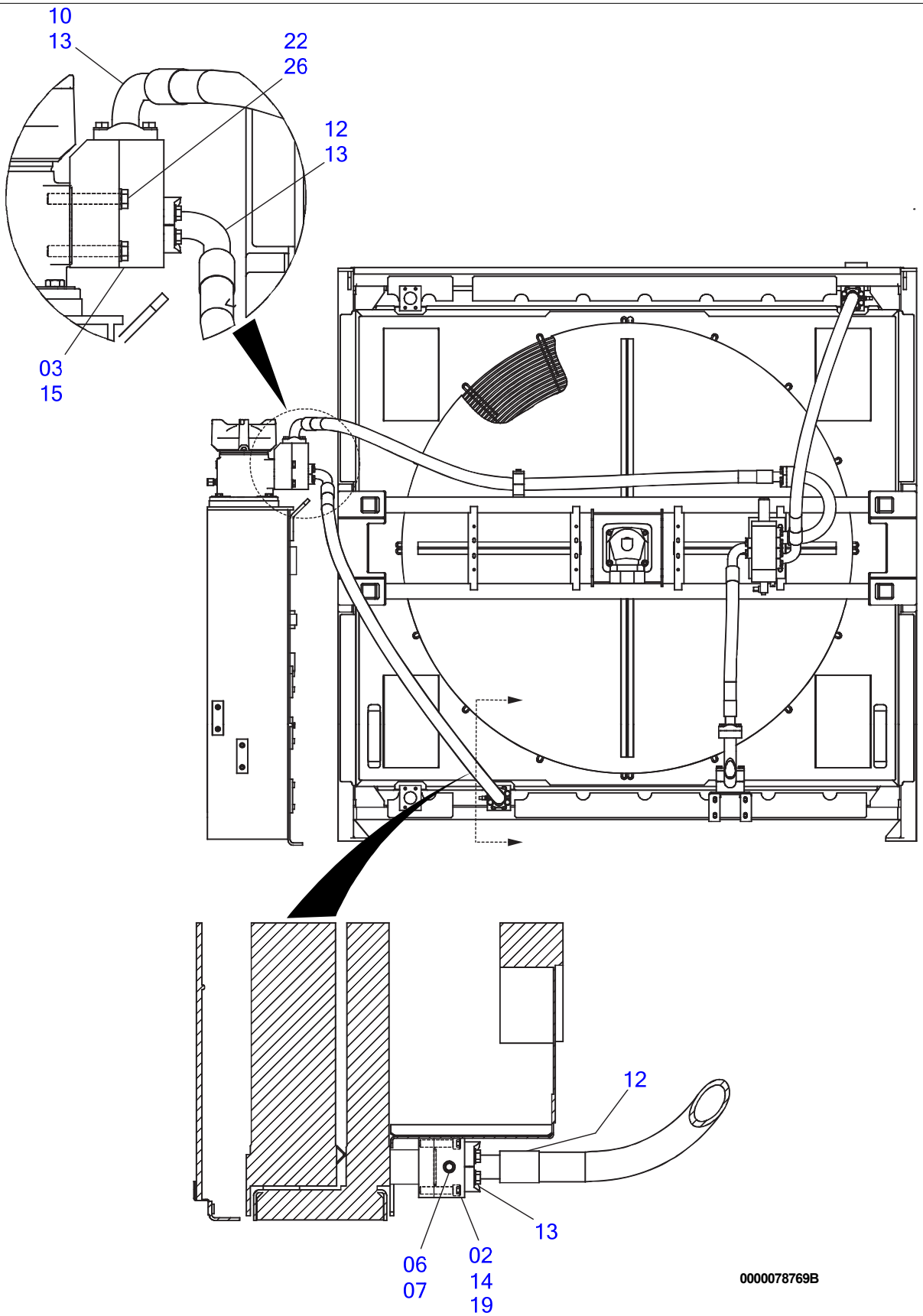
Item	Part No.	Description	Qty.	Unit
	R111038F5100	CABLE INSTALLATION, CHASSIS, CUMMINS TIER 4		
WID5		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	18	Foot
WID6		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	18	Foot
WID7		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	4	Foot
WID9		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	18	Foot
WID10		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	18	Foot
WID11		▪ CABLE, 4/0 AWG, Black	1	
	505582725	▪ ▪ CABLE, 4/0 AWG, Black	4	Foot
07		▪ SHRINK TUBING, Clear, 0.750	1	
	185310180	▪ ▪ TUBING, Shrink - Clear	1	
CBL15AF-061	R90651T20D800	▪ CABLE, Adapter	1	
CBL10AC-162	R90654T15D830	▪ CABLE, 3-Pin, Single-Ended	1	
CBL10AC-262	R90654T15D830	▪ CABLE, 3-Pin, Single-Ended	1	
CBL12A-311	R90655T20D840	▪ CABLE, Adapter	1	
CBL12A-341	R4265232	▪ CABLE, Extension, 3 Pin	1	
12	R4281241	▪ ▪ SNAP RING, Mini	1	
CBL12CA-061	R115058F1	▪ CABLE, Deutsch, 16 Pin	1	
CBL12CC-311	R115059F1	▪ CABLE, Deutsch, 23 Pin	1	
15	R93952D37	▪ LUG, 45 Degree	8	
16	R93951D41	▪ LUG, 90 Degree	4	
17	79U2522D11	▪ LUG, Terminal	4	
18	R108702D15	▪ GROMMET	1	
19	R108702D10	▪ GROMMET	1	
20	R88249D1	▪ TIE, Wire	35	
CBL13AC-171		▪ CABLE, 14 AWG, 2 Conductor	1	
	201280250	▪ ▪ CABLE, 14 AWG, 2 Conductor	16	Foot
22	R108702D9	▪ GROMMET	1	

INSTALLATION, HYDRAULIC COOLING ROUTINGS



ISO VIEW

INSTALLATION, HYDRAULIC COOLING ROUTINGS

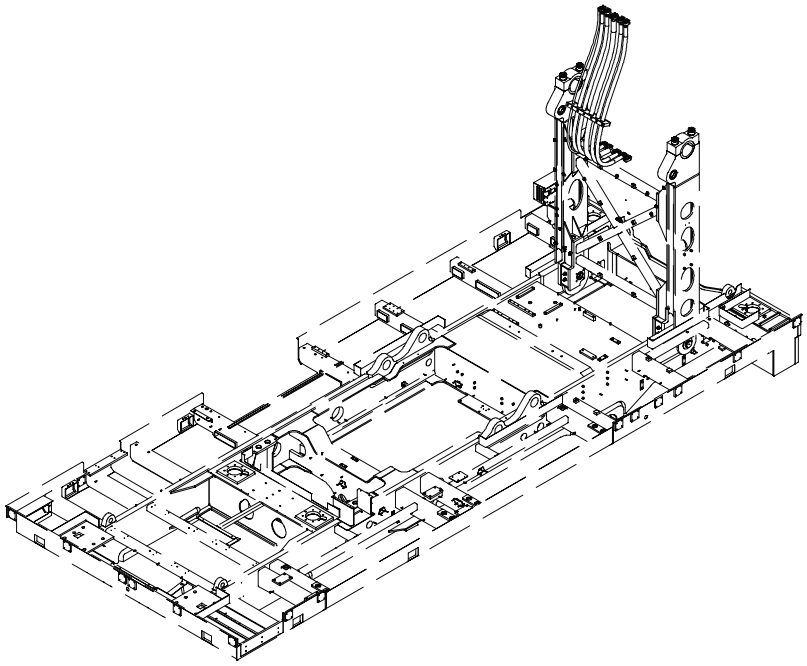


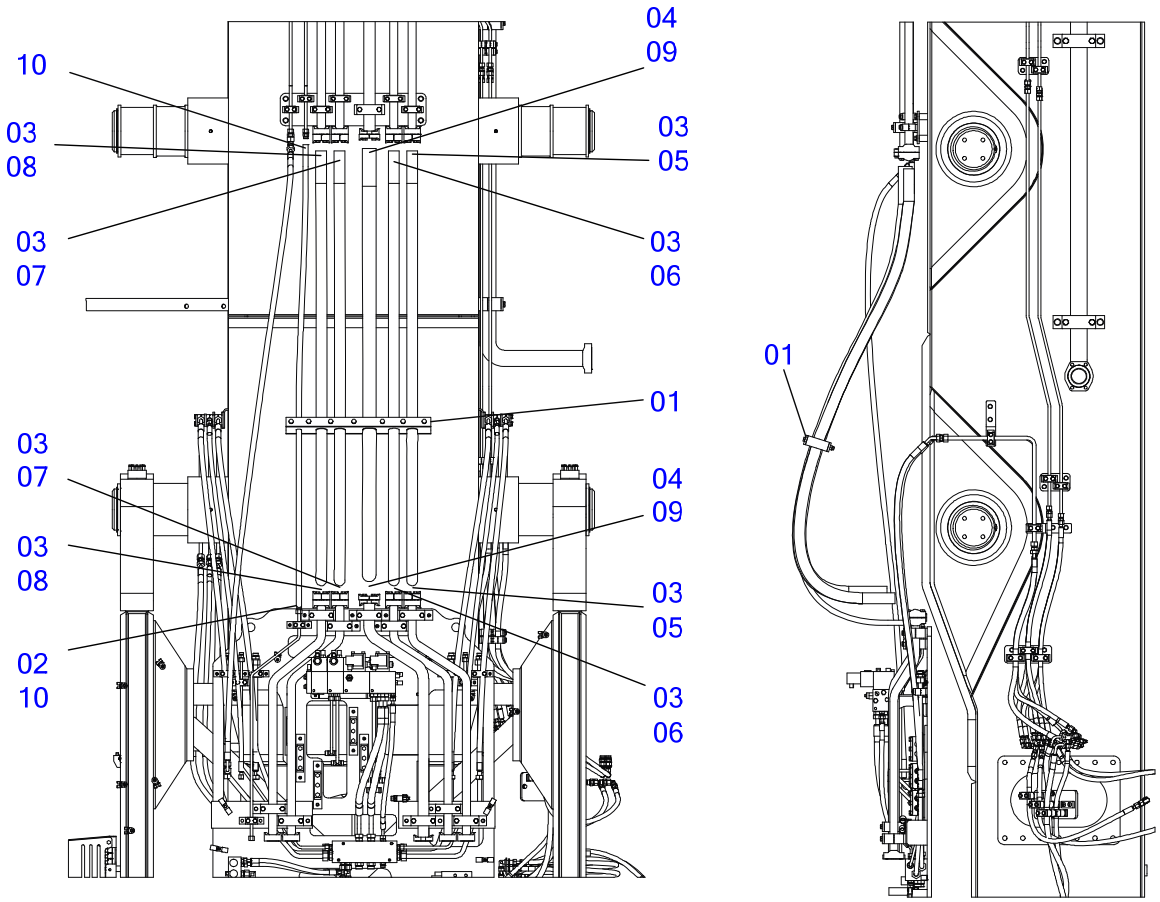
VIEW OF RADIATOR

INSTALLATION, HYDRAULIC COOLING ROUTINGS

Item	Part No.	Description	Qty.
	R105350F1	INSTALLATION, HYDRAULIC COOLING ROUTINGS	
01	R89799D1	▪ MIXING VALVE, Hydraulic Oil Thermal	1
02	R72351D5	▪ ADAPTER	2
03	R106928D1	▪ ADAPTER	1
04	R99902D1	▪ BRACKET, Support	1
05	R105960D1	▪ MOUNT, Hydraulic Bypass Valve	1
06	R89812D1	▪ COOLING ENGINE, High Temp Air Outlet	2
07	R99900D1	▪ PIPE, Hydraulic Cooler Inlet	1
08	R106017D1	▪ PIPE, Hydraulic Cooler Inlet	1
09	R89791T24D158	▪ HOSE ASSEMBLY	1
10	R89791T24D224	▪ HOSE ASSEMBLY	1
11	R89791T24D78	▪ HOSE ASSEMBLY	1
12	R89791T24D209	▪ HOSE ASSEMBLY	1
13	R87258D5	▪ KIT, Split Flange	10
14	45Z479D24	▪ O-RING	2
15	45Z479D50	▪ O-RING	1
16	R78173D19	▪ CLAMP	1
17	R78953D35	▪ CLAMP 50.80	1
18	R88707D4	▪ PLATE, Clamp	1
19	0830M12055	▪ SCREW, Socket Head	8
20	0894M12025	▪ BOLT, Flange Hex Hd	7
21	0825M12120	▪ BOLT, Hex Hd	2
22	0825M16110	▪ BOLT, Hex Hd	4
23	0825M08030	▪ BOLT, Hex Hd	2
24	2104M008	▪ NUT, Hex	2
25	3648M008	▪ WASHER, Hardened	4
26	3648M016	▪ WASHER, Hardened	4
27	R100015D1	▪ WASHER, Copper	2

HYDRAULIC ROUTING, CHASSIS TO MAST





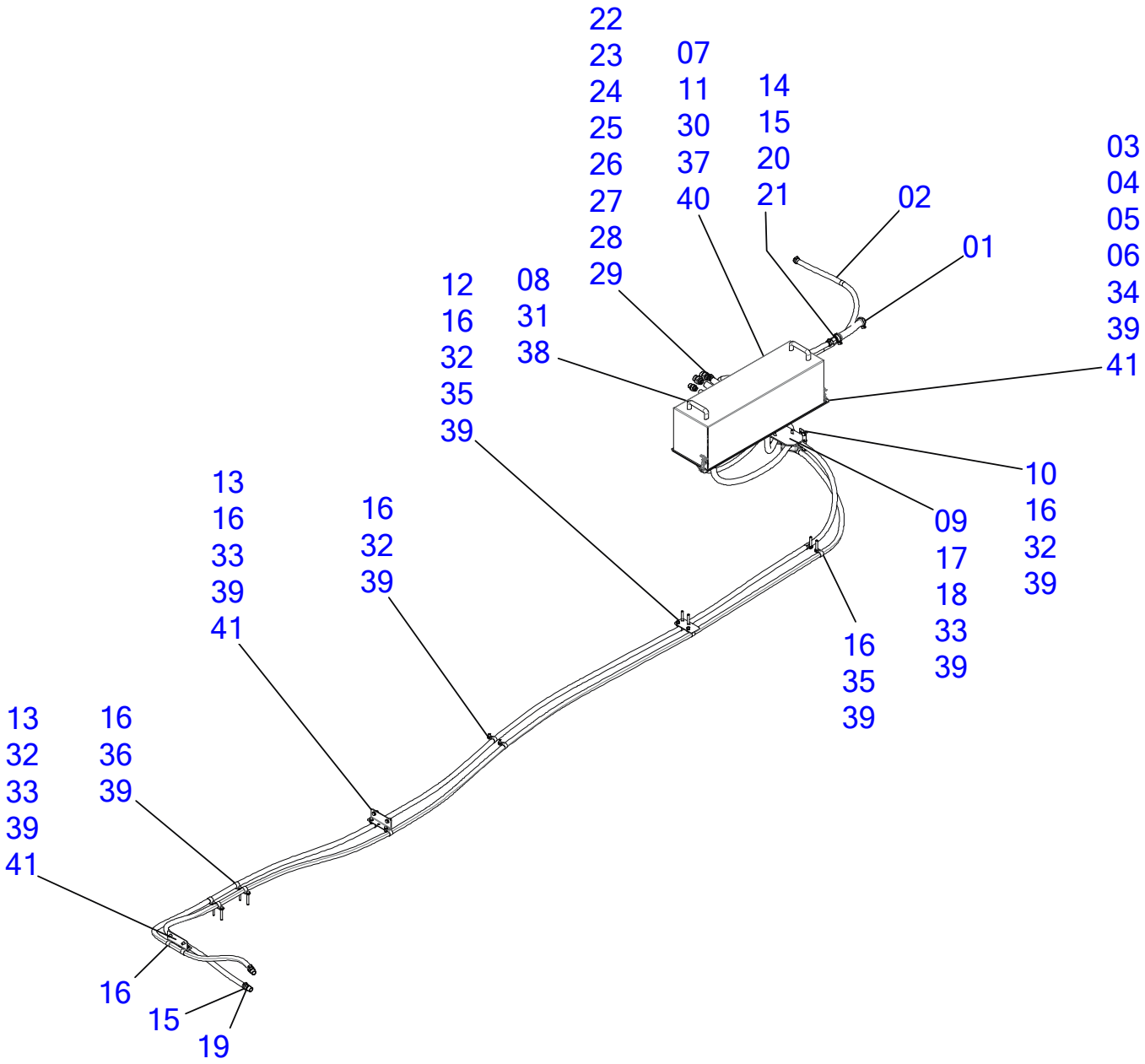
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HYDRAULIC ROUTING, CHASSIS TO MAST

HYDRAULIC ROUTING, CHASSIS TO MAST

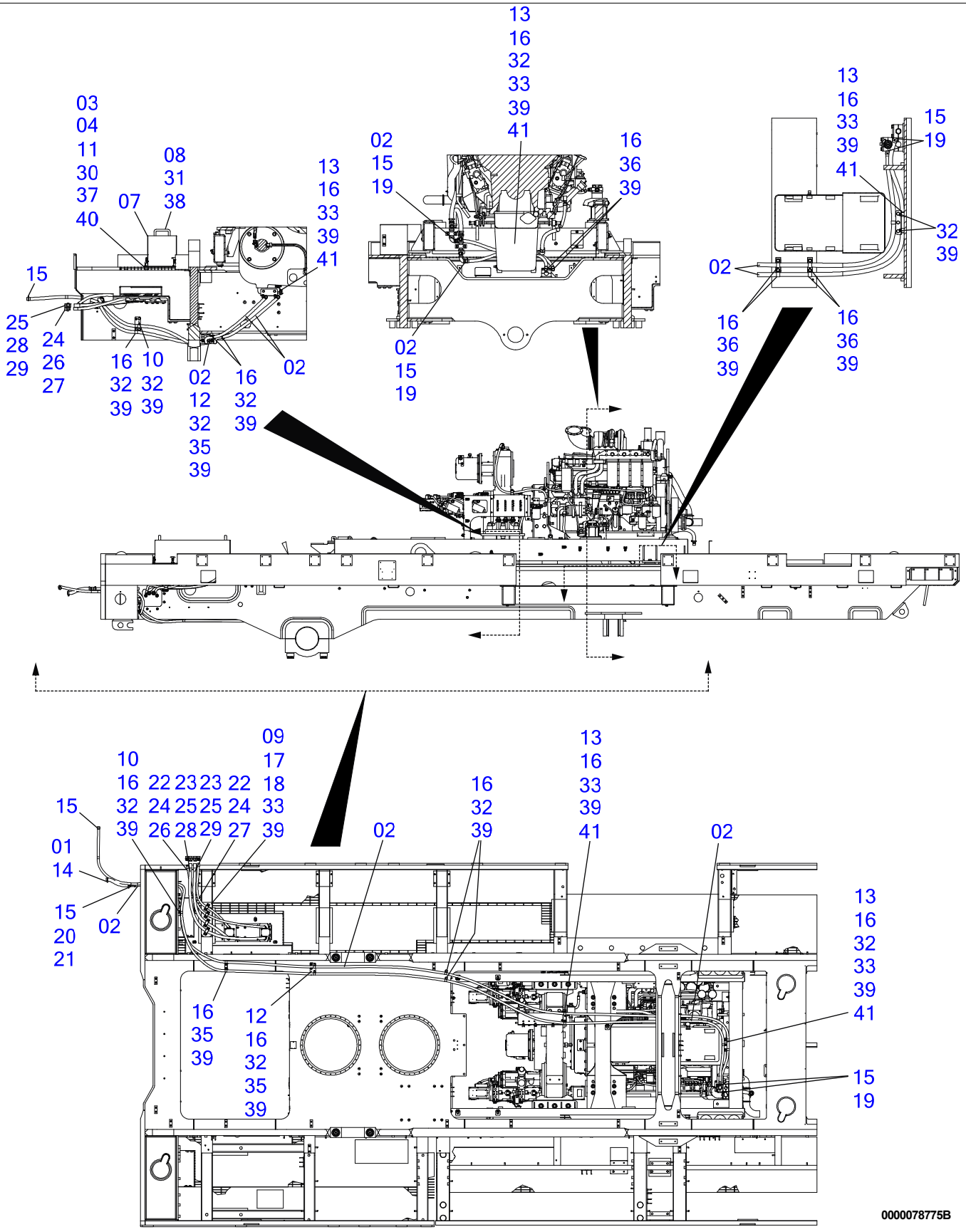
Item	Part No.	Description	Qty.	Page
	R103252F1	HYDRAULIC ROUTING, CHASSIS TO MAST		
01	R98340D1	• CLAMP, Machined	1	102
02	R89772D2	• UNION	1	
03	R87259D4	• KIT, Split Flange	8	
04	R87258D6	• KIT, Split Flange	2	
05	R89788T20D258	• HOSE ASSEMBLY	1	
06	R89788T20D260	• HOSE ASSEMBLY	1	
07	R89788T20D257	• HOSE ASSEMBLY	1	
08	R89788T20D259	• HOSE ASSEMBLY	1	
09	R89791T32D260	• HOSE ASSEMBLY	1	
10	R89780T08M20D268	• HOSE ASSEMBLY	1	

INSTALLATION, HVAC, DUAL AC



ISO VIEW

INSTALLATION, HVAC, DUAL AC



TOP / SIDE VIEW

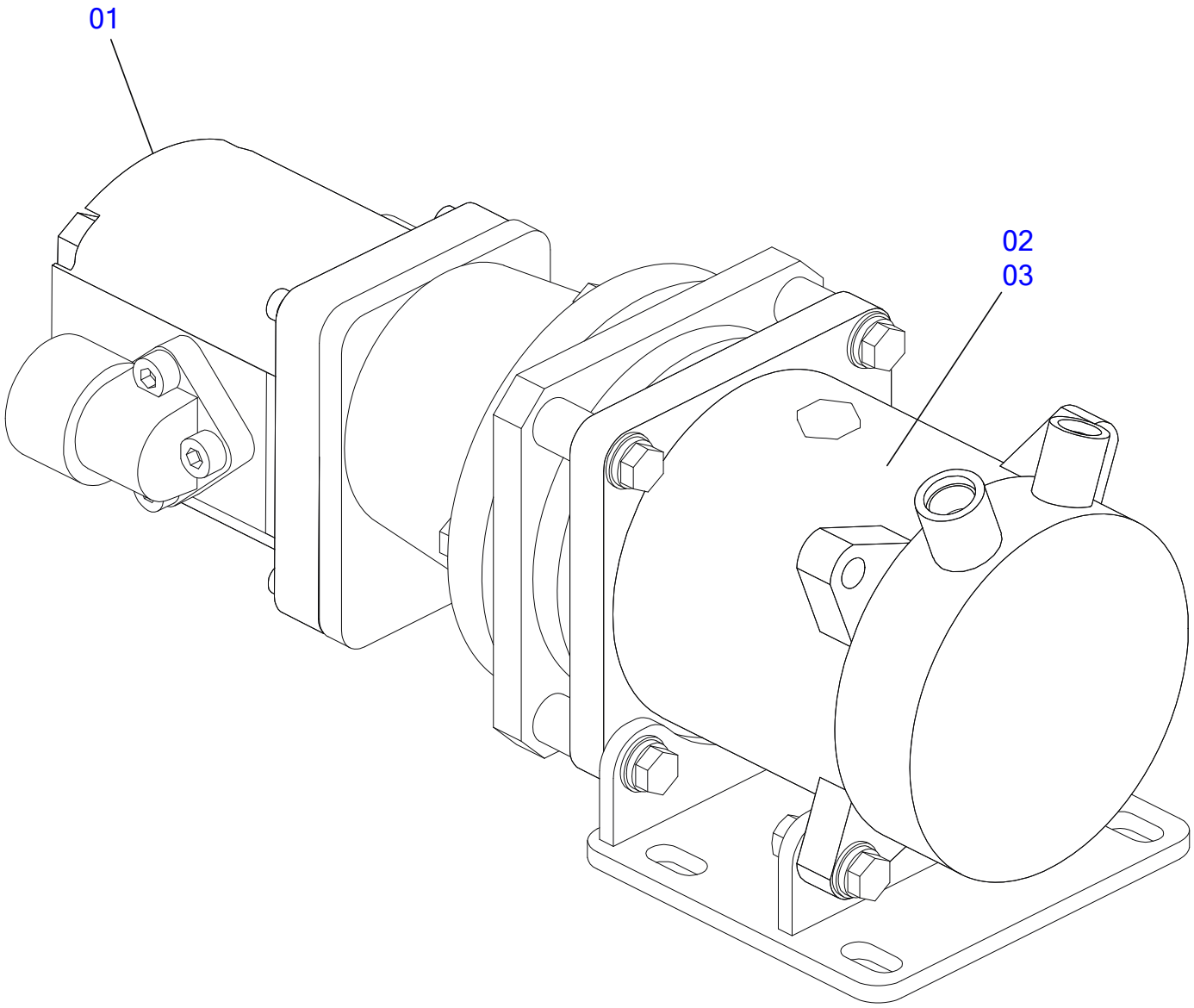
INSTALLATION, HVAC, DUAL AC

Item	Part No.	Description	Qty.	Unit	Page
	R109909F1	INSTALLATION, HVAC, DUAL AC			
01		▪ HOSE	1		
	508265110	▪ ▪ HOSE	14	Inch	
02	R91407T19D1800	▪ HOSE, Heater	1		
03	R103578D2	▪ MOUNT, Compressor, HVAC, Op Cab	1		
04	R98956D2	▪ FOAM, Adhesive Backed	1		
05	R103645D1	▪ SPACER	8		
06	R95902D1	▪ HYDRAULIC COMPRESSOR, SE7H15	2		135
07	R103613D1	▪ COVER, Compressor	1		
08	R97618D1	▪ HANDLE, Door, Black	2		
09	R104327D1	▪ WELDMENT, Mount, Hose Clamps	1		
10	R103892D1	▪ MOUNT, Coolant Routing	1		
11	R103625D1	▪ DRAW LATCH, Weather Resistant	4		
12	R103894D1	▪ MOUNT, Coolant Routing	1		
13	R103871D1	▪ ANGLE MOUNT, Coolant Routing	2		
14	R92065D2	▪ CLAMP	2		
15	R92065D1	▪ CLAMP	4		
16	32Z423D2	▪ CLAMP, Insulated	17		
17	R78953D17	▪ CLAMP	2		
18	R78953D24	▪ CLAMP	2		
19	R98508D25	▪ NIPPLE, Brass	2		
20	R98508D26	▪ NIPPLE, Brass	1		
21	R98480D1	▪ HOSE FITTING	1		
22	R89792D10	▪ CONNECTOR	2		
23	R89792D14	▪ CONNECTOR	2		
24	R89778D7	▪ CONNECTOR	2		
25	R89778D10	▪ CONNECTOR	2		
26	R89781T08M24D158	▪ HOSE ASSEMBLY	1		
27	R89780T08M24D112	▪ HOSE ASSEMBLY	1		
28	R89783T12M30D172	▪ HOSE ASSEMBLY	1		
29	R89783T12M30D125	▪ HOSE ASSEMBLY	1		
30	0836M03012	▪ SCREW, Button Head Cap	12		
31	0630V026	▪ SCREW, Socket Head Cap	4		
32	0825M10020	▪ BOLT, Hex Hd	9		
33	0825M10025	▪ BOLT, Hex Hd	19		
34	0825M10045	▪ BOLT, Hex Hd	8		
35	0825M10065	▪ BOLT, Hex Hd	4		
36	0825M10075	▪ BOLT, Hex Hd	4		
37	3612M003	▪ WASHER, Plain	24		
38	3631V006	▪ WASHER, Plain	4		

INSTALLATION, HVAC, DUAL AC

Item	Part No.	Description	Qty.	Unit	Page
39	3612M010	・WASHER, Plain	59		
40	2104M003	・NUT, Hex	12		
41	2104M010	・NUT, Hex	15		

COMPRESSOR, AC HYDRAULIC

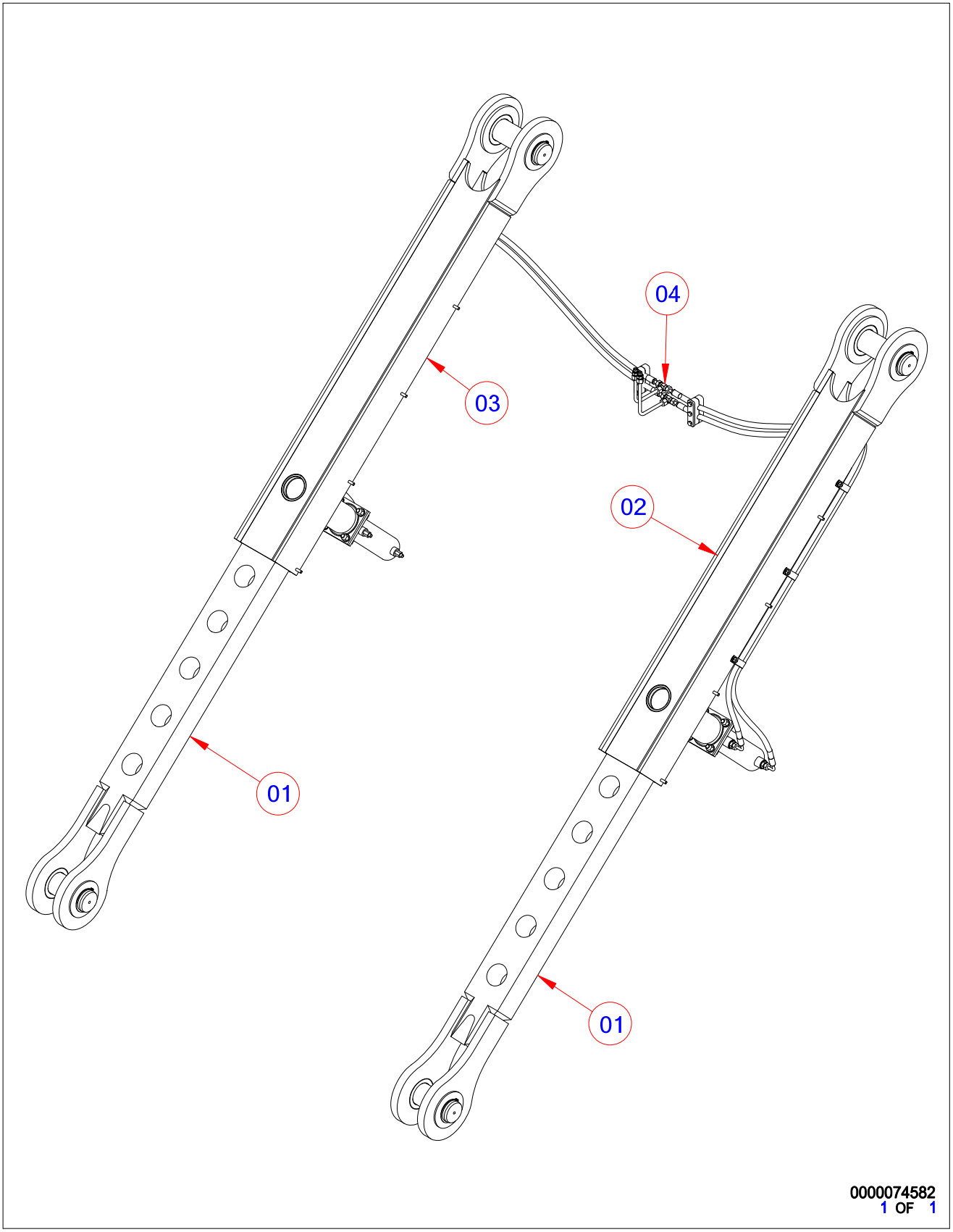


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COMPRESSOR, AC HYDRAULIC

Item	Part No.	Description	Qty.
	R95902D1	COMPRESSOR, AC Hydraulic	
01	R104379D1	▪ MOTOR, Hydraulic, 19CC	1
02	R104380D1	▪ COMPRESSOR, AC	1
03	R104381D1	▪ SEAL, Shaft, Hydraulic Motor	1

ANGLED STRUT GROUP

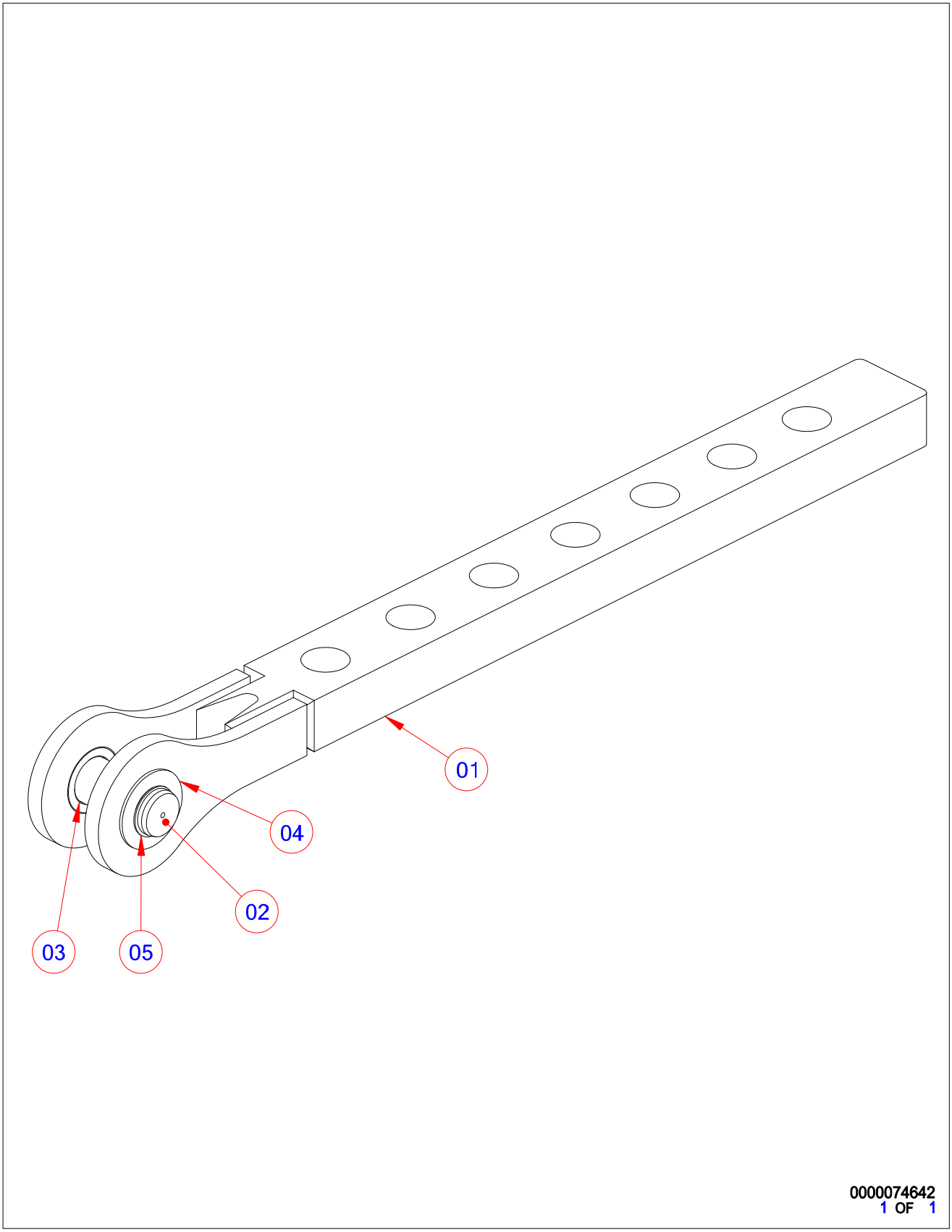


GROUP, ANGLED STRUT

ANGLED STRUT GROUP

Item	Part No.	Description	Qty.	Page
	R102197F1	ANGLED STRUT GROUP		
01	R102198F1	▪ ASSEMBLY, Lower Strut	2	137
02	R102199F2	▪ ASSEMBLY, Upper Strut, LH	1	138
03	R102199F1	▪ ASSEMBLY, Upper Strut, RH	1	139
04	R103293F1	▪ HYDRAULIC ROUTING, Mast Tilt Lock	1	140

ASSEMBLY, LOWER STRUT

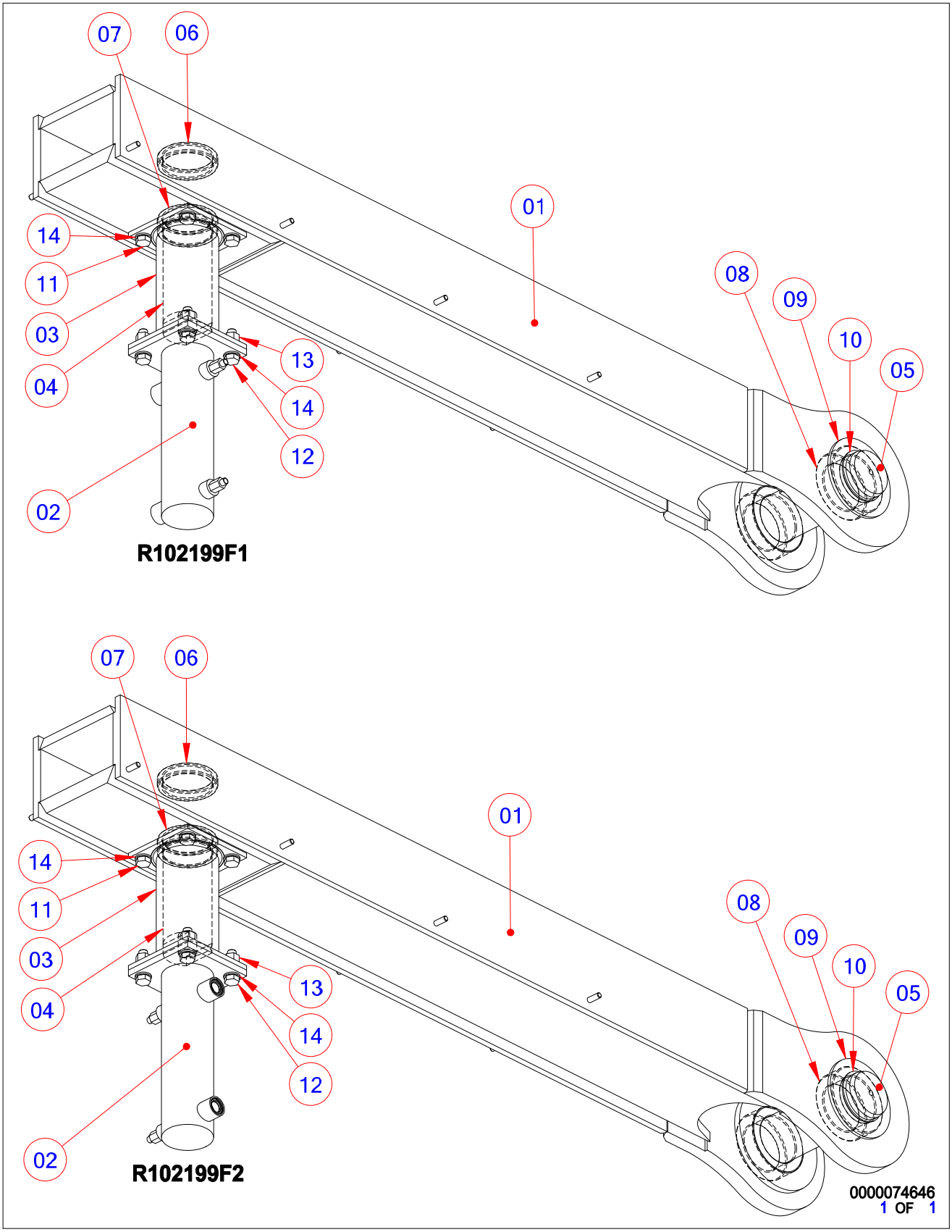


ASSEMBLY,STRUT,LOWER

ASSEMBLY, LOWER STRUT

Item	Part No.	Description	Qty.
	R102198F1	ASSEMBLY, LOWER STRUT	
01	R102167D2	・STRUT, Lower, Machining	1
	R102167D1	・・STRUT, Lower, Weldment	1
	R102168D1	・・・ARM, Strut, Locking	1
02	R89839D1	・PIN	1
03	R89841D1	・BUSHING	2
04	R89834D1	・WASHER, Thrust	2
05	R89724D90	・RING, Snap	2

ASSEMBLY, UPPER STRUT, LEFT SIDE

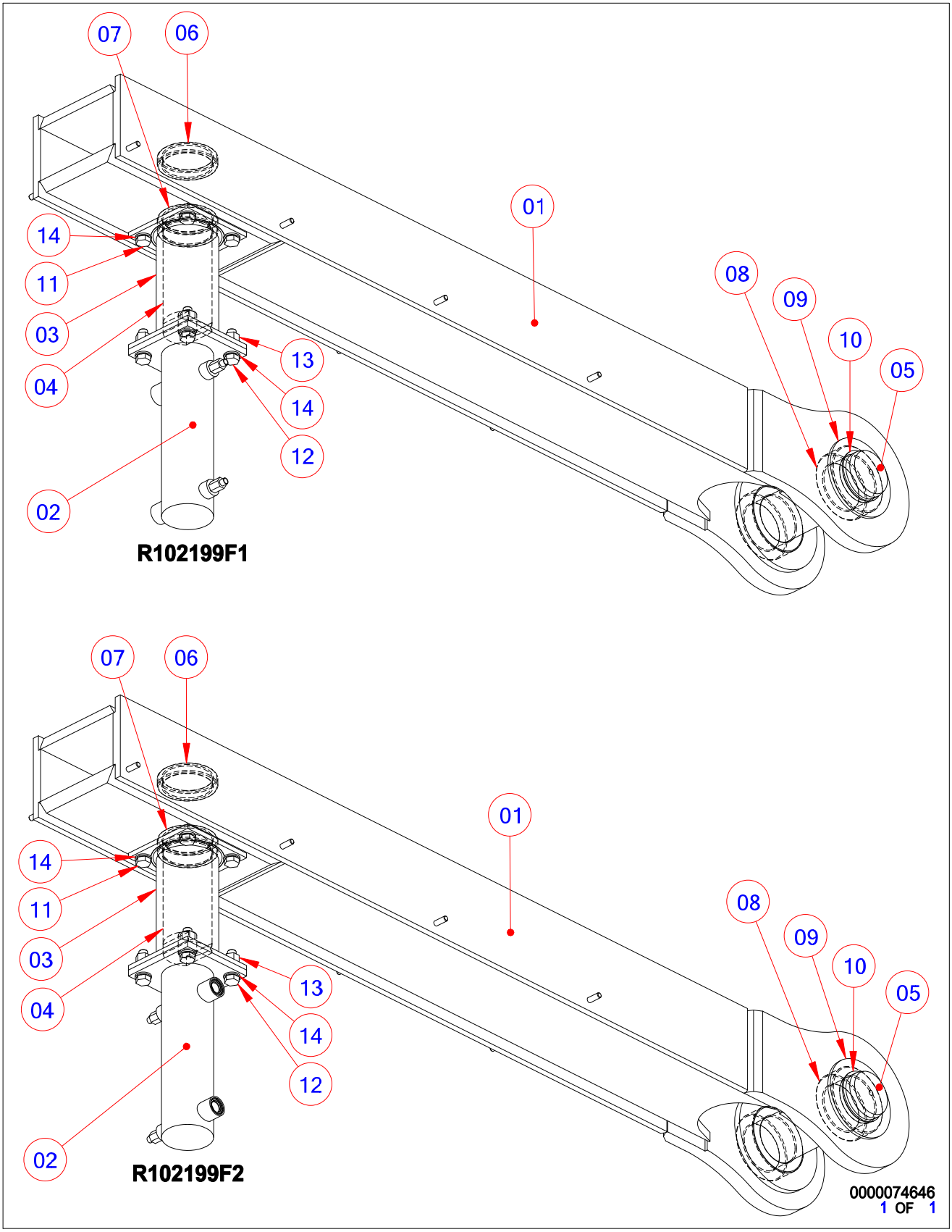


ASSEMBLY, STRUT, UPPER

ASSEMBLY, UPPER STRUT, LEFT SIDE

Item	Part No.	Description	Qty.
	R102199F2	ASSEMBLY, UPPER STRUT, LEFT SIDE	
01	R102169D2	・STRUT, Upper, Machining	1
02	R90045D1	・CYLINDER, Mast Lock	1
	R90577D1	・・SWITCH, Proximity (Not Shown)	2
03	R90047D2	・MOUNT, Mast Lock Cylinder	1
	R90047D1	・・WELDMENT, Mast Lock Cylinder Mount	1
04	R90048D1	・PIN, Locking	1
05	R100026D1	・PIN, Chassis	1
06	R90024D1	・BUSHING, Chassis	1
07	R90025D1	・BUSHING, Chassis	1
08	R89835D1	・BUSHING	2
09	R89834D1	・WASHER, Thrust	2
10	R89724D90	・RING, Snap	2
11	0825M16040	・BOLT, Hex Hd	4
12	0825M16055	・BOLT, Hex Hd	4
13	2104M016	・NUT, Hex	4
14	3648M016	・WASHER, Hardened	12

ASSEMBLY, UPPER STRUT, RIGHT SIDE

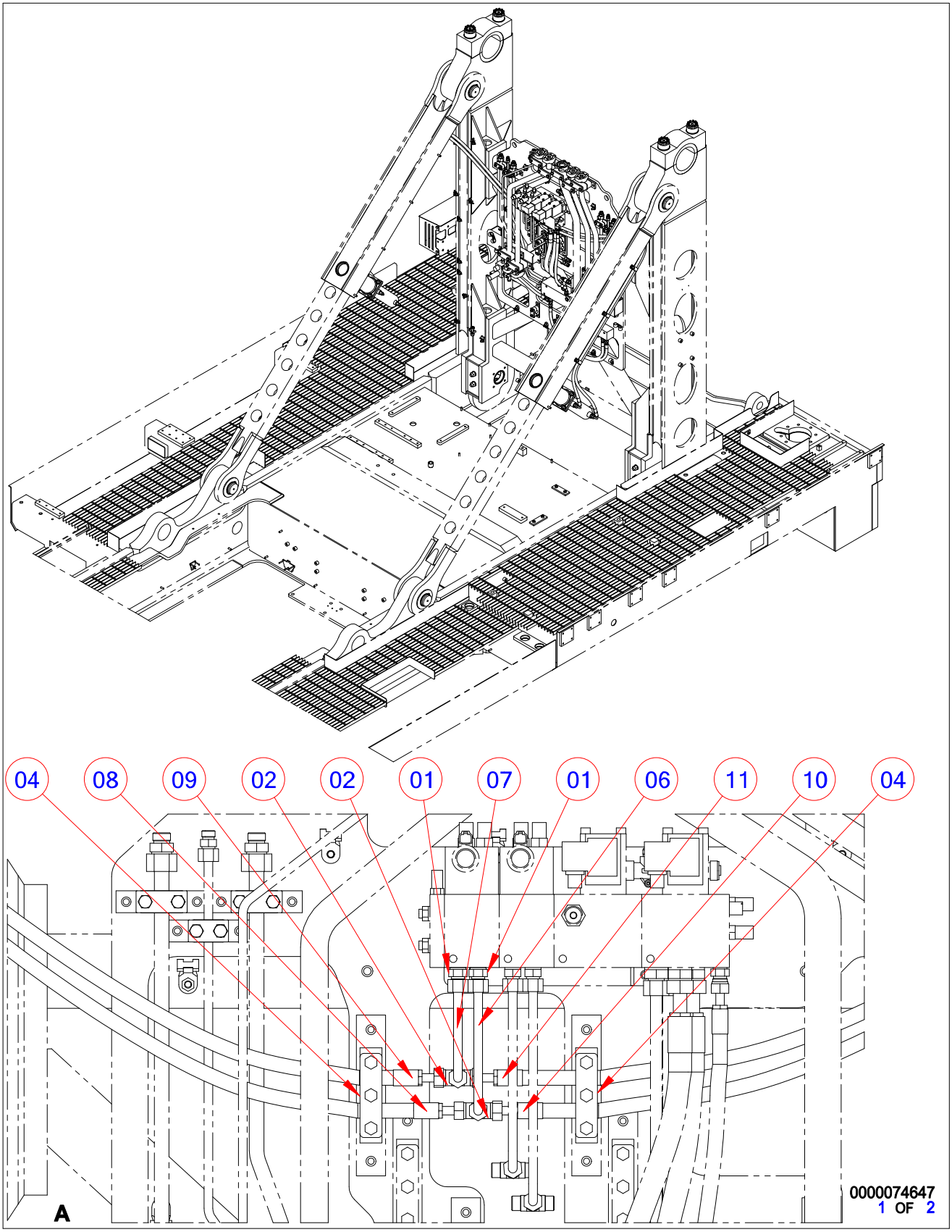


ASSEMBLY, STRUT, UPPER

ASSEMBLY, UPPER STRUT, RIGHT SIDE

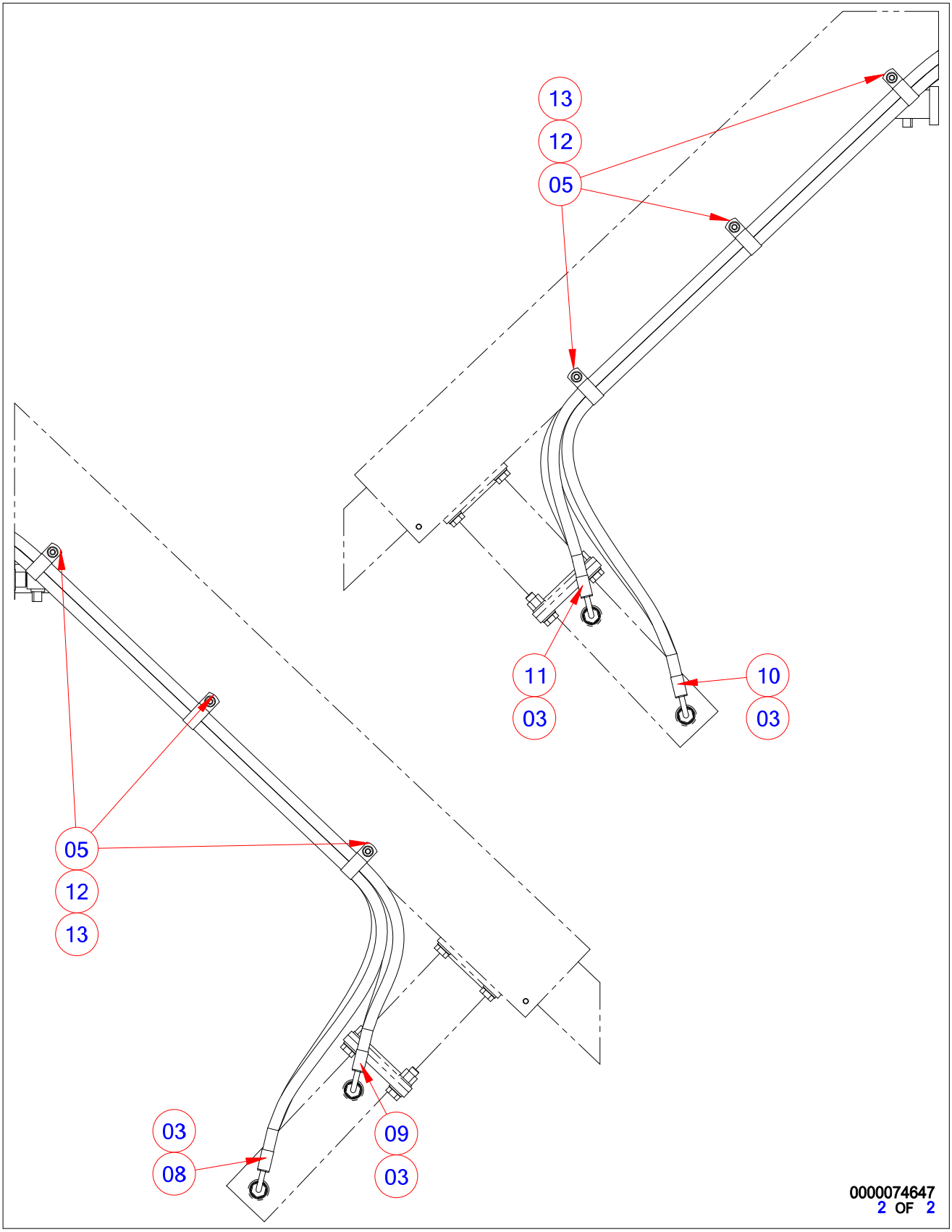
Item	Part No.	Description	Qty.
	R102199F1	ASSEMBLY, UPPER STRUT, RIGHT SIDE	
01	R102169D2	・STRUT, Upper, Machining	1
	R102169D1	・・STRUT, Upper, Weldment	1
02	R90045D1	・CYLINDER, Mast Lock	1
	R90577D1	・・SWITCH, Proximity	2
03	R90047D2	・MOUNT, Mast Lock Cylinder	1
	R90047D1	・・WELDMENT, Mast Lock Cylinder Mount	1
04	R90048D1	・PIN, Locking	1
05	R100026D1	・PIN, Chassis	1
06	R90024D1	・BUSHING, Chassis	1
07	R90025D1	・BUSHING, Chassis	1
08	R89835D1	・BUSHING	2
09	R89834D1	・WASHER, Thrust	2
10	R89724D90	・RING, Snap	2
11	0825M16040	・BOLT, Hex Hd	4
12	0825M16055	・BOLT, Hex Hd	4
13	2104M016	・NUT, Hex	4
14	3648M016	・WASHER, Hardened	12

HYDRAULIC ROUTING, MAST TILT LOCK



HYD ROUTING,MAST TILT LOCK

HYDRAULIC ROUTING, MAST TILT LOCK

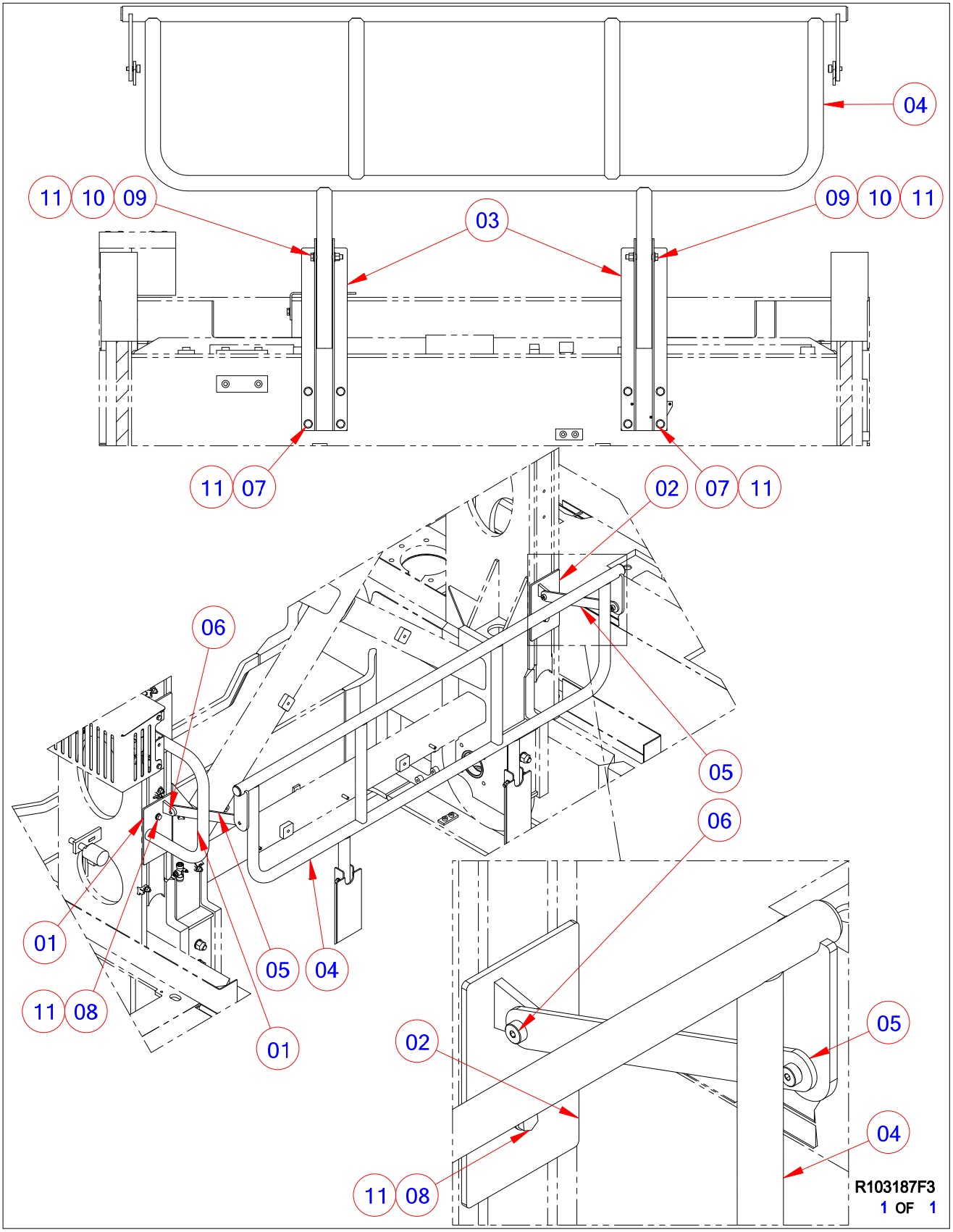


HYD ROUTING,MAST TILT LOCK

HYDRAULIC ROUTING, MAST TILT LOCK

Item	Part No.	Description	Qty.
	R103293F1	HYDRAULIC ROUTING, MAST TILT LOCK	
01	R89792D5	・CONNECTOR	2
02	R89773D2	・UNION	2
03	R89778D5	・CONNECTOR	4
04	R92795D3	・CLAMP, Heavy Twin	2
05	32Z1233D47	・CLAMP	6
06	R99380D1	・TUBE ASSEMBLY	1
07	R99379D1	・TUBE ASSEMBLY	1
08	R89782T06M20D270	・HOSE ASSEMBLY	1
09	R89782T06M20D248	・HOSE ASSEMBLY	1
10	R89782T06M20D299	・HOSE ASSEMBLY	1
11	R89782T06M20D281	・HOSE ASSEMBLY	1
12	3612M010	・WASHER, Plain	6
13	2104M010	・NUT, Hex	6

INSTALLATION, GUARDRAIL, A-FRAME ANGLED

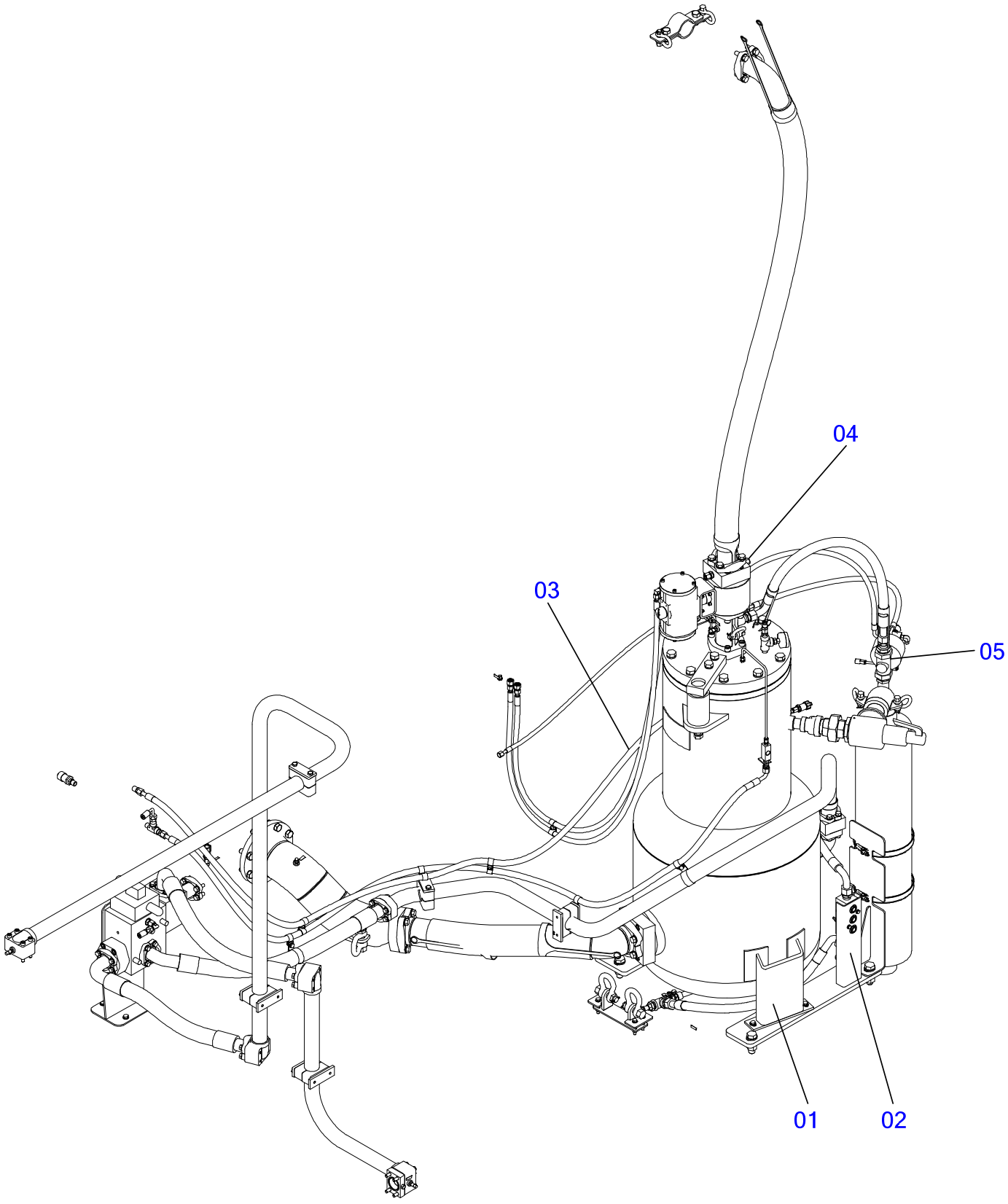


INSTALL,GUARDRAIL,A-FRAME ANGLED

INSTALLATION, GUARDRAIL, A-FRAME ANGLED

Item	Part No.	Description	Qty.
	R103187F3	INSTALLATION, GUARDRAIL, A-FRAME ANGLED	
01	R106357D1	・BRACKET, RH	1
02	R106357D2	・BRACKET, LH	1
03	R106954D2	・BRACKET, Mounting	2
	R106954D1	・・BRACKET, Mounting, Weldment	1
04	R106599D1	・GUARDRAIL	1
05	R107626D1	・BAR, Linkage	2
06	R92097D1	・BOLT, Shoulder	4
07	0825M12020	・BOLT, Hex Hd	8
08	0825M12025	・BOLT, Hex Hd	6
09	0825M12080	・BOLT, Hex Hd	2
10	2104M012	・NUT, Hex	2
11	3648M012	・WASHER, Hardened	18

MAIN AIR GROUP - 2000 CFM



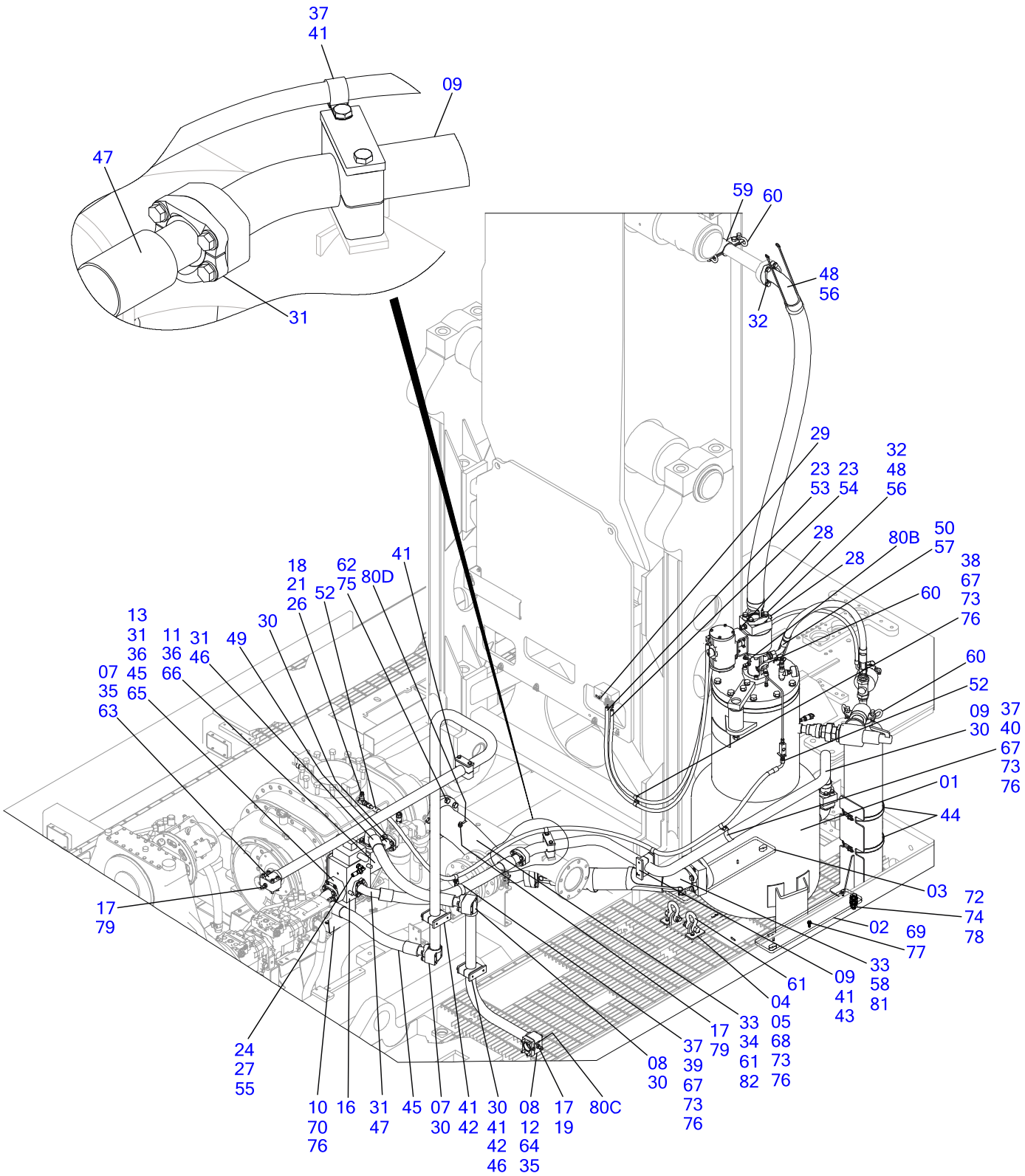
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MAIN AIR GROUP - 2000 CFM

MAIN AIR GROUP - 2000 CFM

Item	Part No.	Description	Qty.	Page
	R9012808F1	MAIN AIR GROUP - 2000 CFM		
01	R115707F1	▪ MAIN AIR INSTALLATION - 2000 CFM	1	143
02	R9003261F1	▪ SIGHT GLASS KIT	1	147
03	R9003323F1	▪ FIELD KIT, Second Oil Scavange Line	1	148
04	R9003681F1	▪ PRESSURIZATION KIT, Hydraulic Tank	1	149
05	R9003826F1	▪ SOLENOID KIT, Dump Valve	1	150

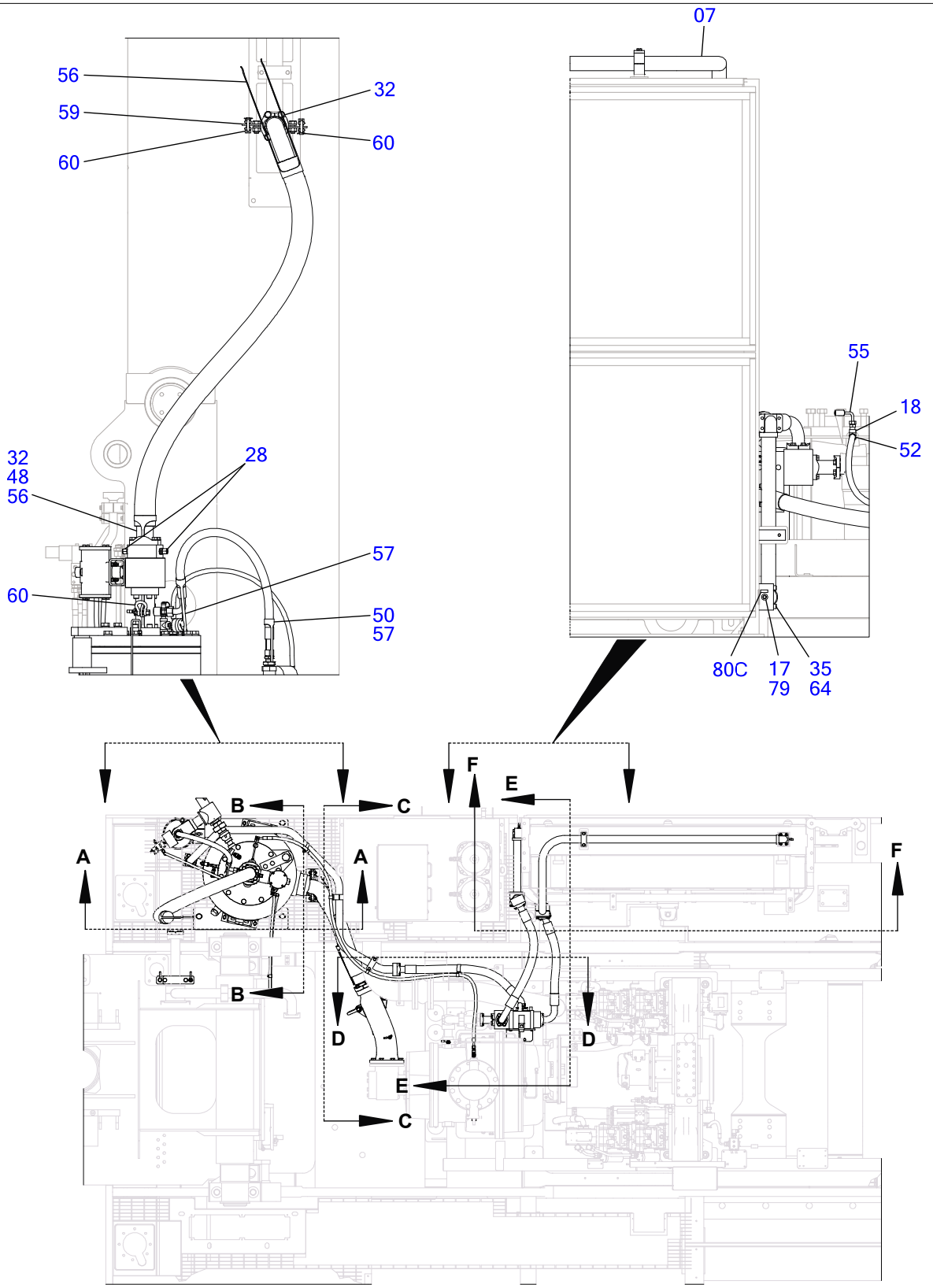
INSTALLATION, MAIN AIR



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ISO VIEW

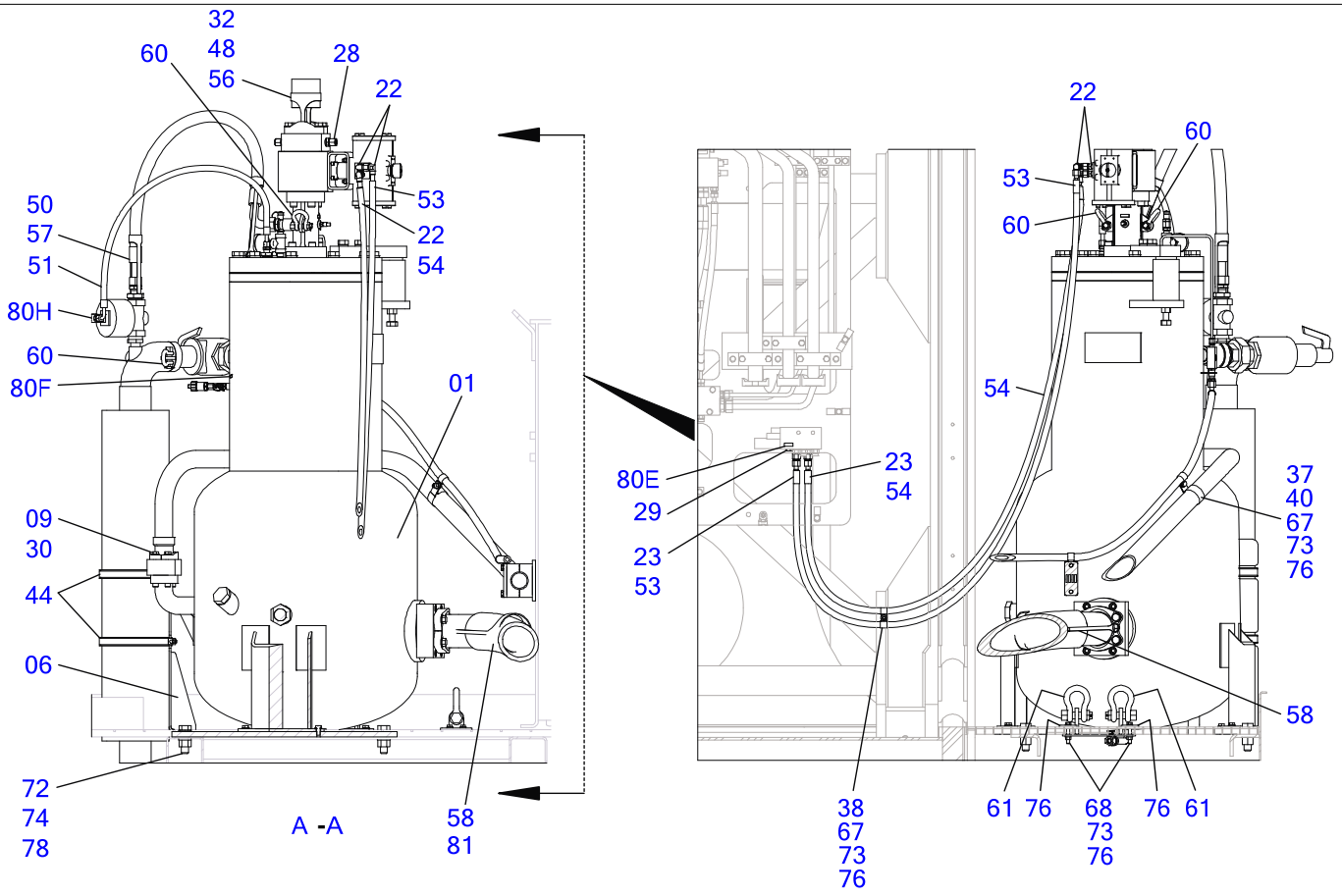
INSTALLATION, MAIN AIR

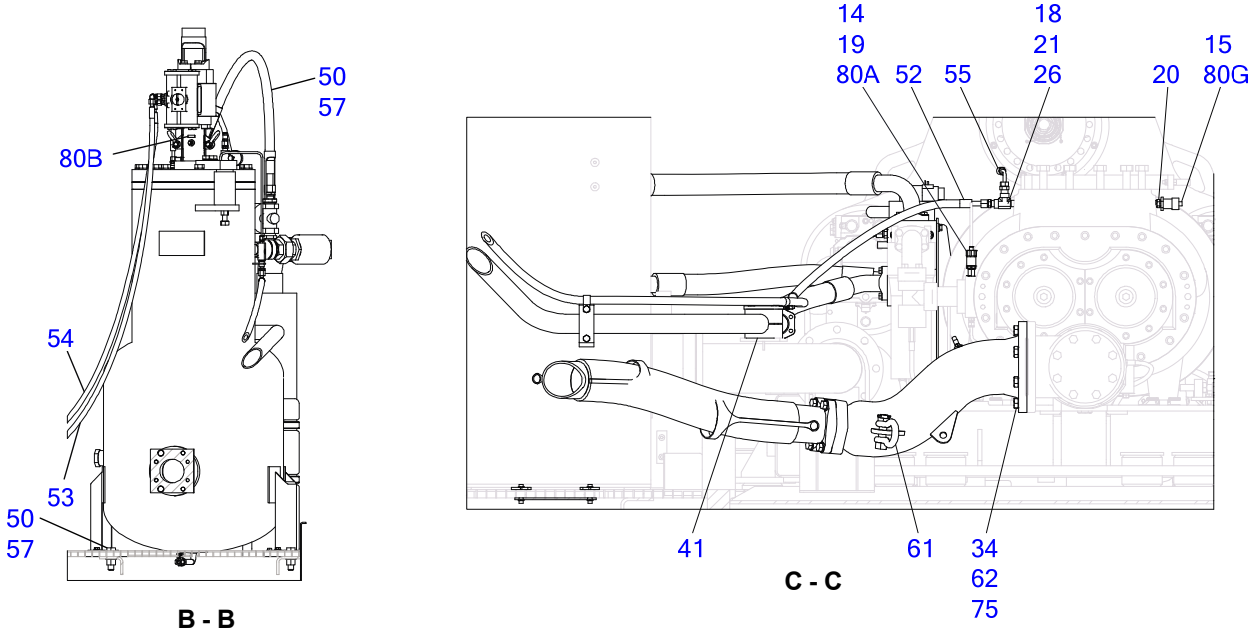


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TOP VIEW

INSTALLATION, MAIN AIR

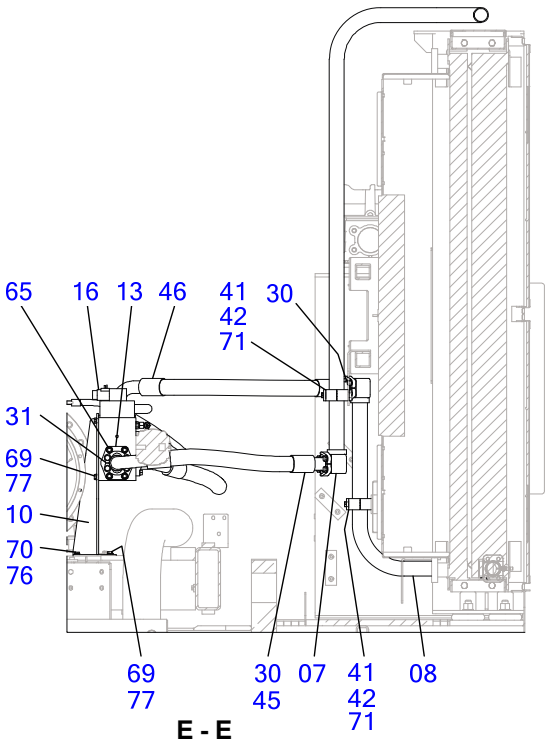




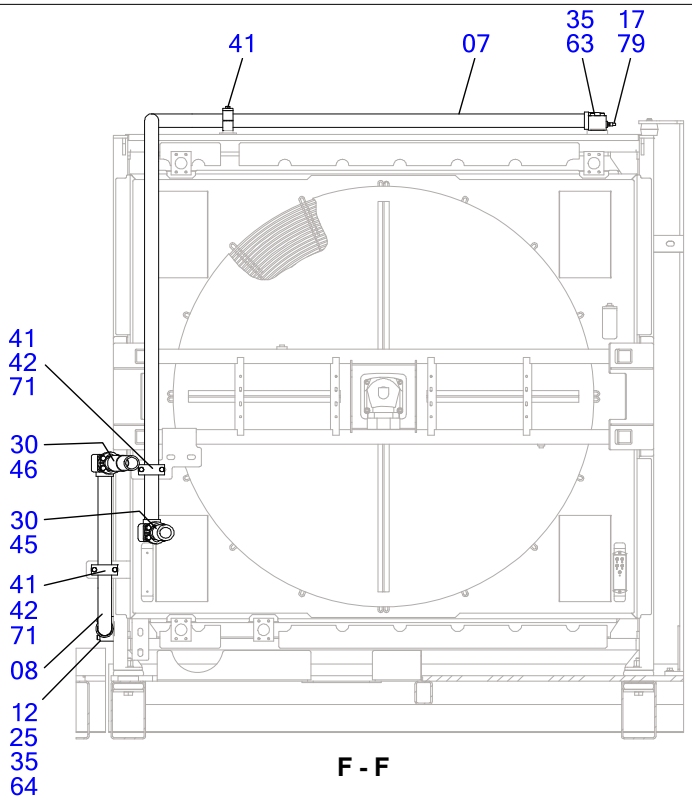
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SECTIONS A-A, B-B & C-C

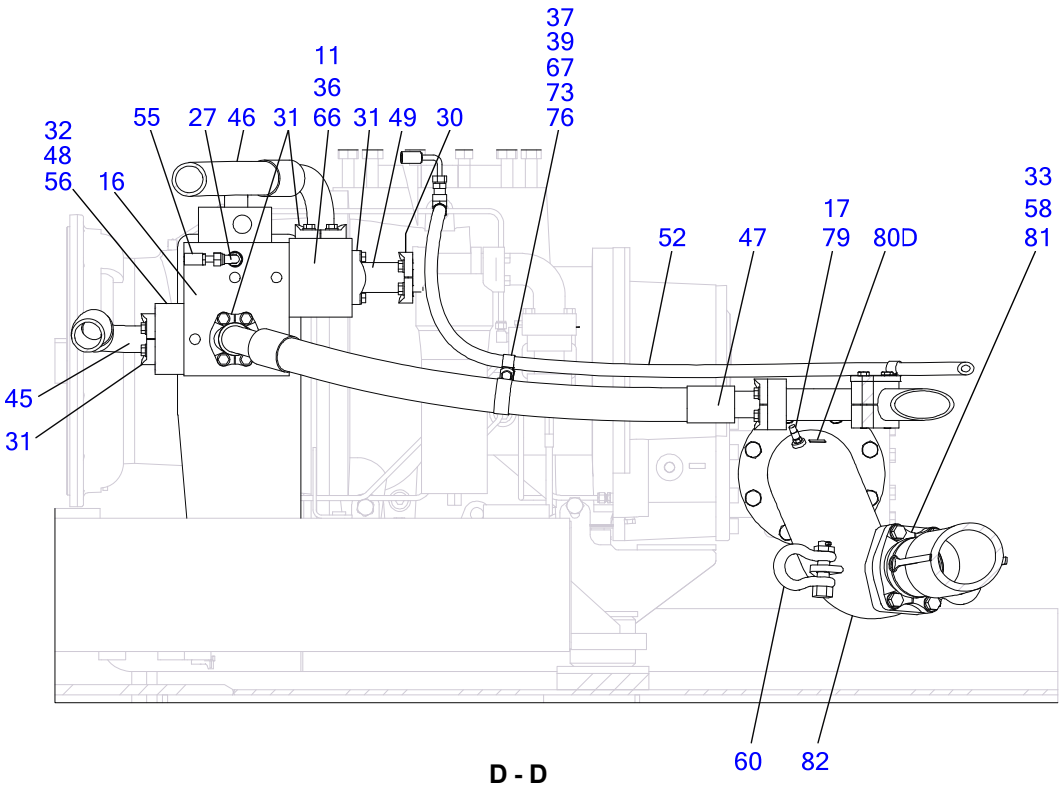
INSTALLATION, MAIN AIR



E - E



F - F



D - D

0000084995D

SECTIONS D-D, E-E & F-F

INSTALLATION, MAIN AIR

Item	Part No.	Description	Qty.	Page
	R115707F1	INSTALLATION, MAIN AIR		
01	R115708F1	• RECEIVER, Main Air Assembly	1	144
02	R115904D1	• BRACKET, LH Mounting	1	
03	R115905D1	• BRACKET, RH Mounting	1	
04	R115909D1	• BRACKET, Hold Down, Whipsock	1	
05	R115907D1	• PLATE, Hold Down, Whipsock	2	
06	R115903D1	• BRACKET, Silencer	1	
07	R105404D1	• PIPE, Cooler, MAO Inlet	1	
08	R106616D1	• PIPE, Cooler, MAO Outlet	1	
09	R115906D1	• PIPE, Air Supply, 2000-2700	1	
10	R104245D1	• BRACKET, Diverter Valve	1	
11	R104540D1	• TEE BLOCK, Branch	1	
12	R64895D1	• SPACER, Port	1	
13	R104583D1	• ADAPTER, Code 61, -48 to -32	1	
14	R75775D1	• BAPT TRANSDUCER PRESSURE CANopen	1	
15	R73710D1	• TRANSDUCER, Vacuum	1	
16	R89378F1	• MANIFOLD ASSEMBLY, Cooler Bypass	1	146
17	R89812D1	• SENSOR, Temperature	3	
18	44Z686D4	• TEE, Service	1	
19	R73761D4	• ADAPTER	1	
20	44Z826D5	• REDUCER, Pipe	1	
21	R89779D7	• CONNECTOR, ISO	1	
22	R89793D1	• CONNECTOR, ISO	3	
23	R89862D1	• CONNECTOR, Union	2	
24	R89778D4	• CONNECTOR, ISO	1	
25	44Z536D4	• PLUG (Not Shown)	1	
26	44Z2597D10	• ADAPTER	1	
27	R89793D2	• CONNECTOR, ISO	1	
28	44Z2593D3	• CAP	2	
29	R97481D1	• PLUG, Hex	1	
30	R87256D6	• KIT, Split Flange	4	
31	R87258D6	• KIT, Split Flange	5	
32	R87258D8	• KIT, Split Flange	2	
33	R87256D10	• KIT, Split Flange	2	
34	45Z91D32	• O-RING	1	
35	45Z91D84	• O-RING	3	
36	45Z91D105	• O-RING	2	
37	32Z423D2	• CLAMP, Insulated	4	
38	32Z423D21	• CLAMP, Insulated	2	
39	32Z423D39	• CLAMP, Insulated	1	

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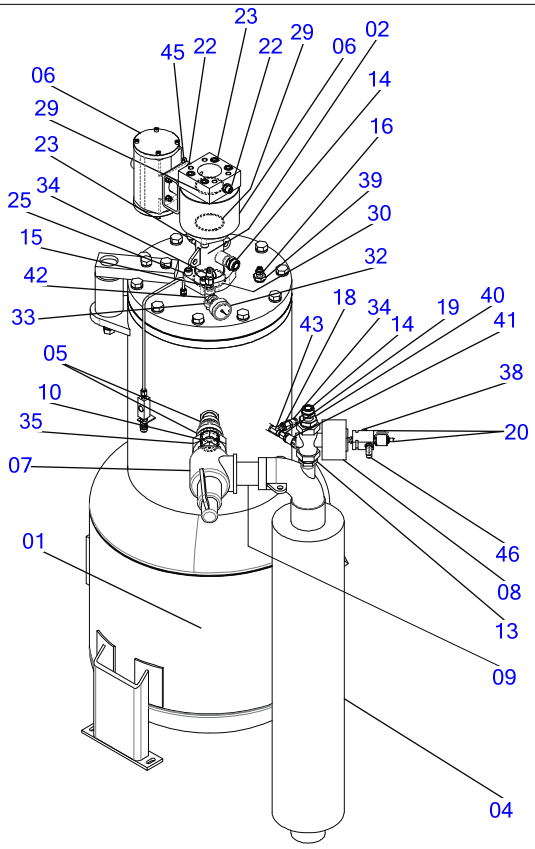
INSTALLATION, MAIN AIR

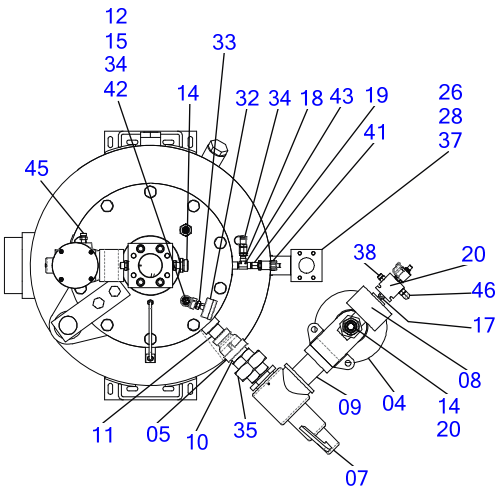
Item	Part No.	Description	Qty.	Page
40	32Z423D46	• CLAMP, Insulated	1	
41	R78952D22	• CLAMP	5	
42	R88707D4	• PLATE, Clamp	2	
43	44Z2564D4	• PLATE, Single Clamp	1	
44	R55461D8	• CLAMP, T-Bolt	2	
45	R70871D35	• HOSE ASSEMBLY	1	
46	R70871D41	• HOSE ASSEMBLY	1	
47	R70873D47	• HOSE ASSEMBLY	1	
48	R98309T48D225	• HOSE ASSEMBLY	1	
49	R109477D1	• TUBE ASSEMBLY	1	
50	R115908T16D47	• HOSE ASSEMBLY	1	
51	R115908T06D45	• HOSE ASSEMBLY	1	
52	R115908T08D130	• HOSE ASSEMBLY	1	
53	R89780T06M18D256	• HOSE ASSEMBLY, ISO	1	
54	R89780T06M18D244	• HOSE ASSEMBLY, ISO	1	
55	R89909T06M20D100	• HOSE ASSEMBLY, ISO	1	
56	R102232D1	• WHIP SOCK	1	
57	R102233D1	• WHIP SOCK	1	
58	R105509D3	• WHIP SOCK	1	
59	R102239D1	• CLAMP, Hose Hobble	1	
60	R101917D2	• SHACKLE	6	
61	R101917D3	• SHACKLE	4	
62	20Q324D448	• SCREW, Hex Head Cap	8	
63	7830M12085	• SCREW, Socket Hd	4	
64	7830M12110	• SCREW, Socket Hd	4	
65	0830M16055	• SCREW, Socket Hd	4	
66	0830M16130	• SCREW, Socket Hd	4	
67	0825M10025	• BOLT, Hex Hd	3	
68	0825M10065	• BOLT, Hex Hd	4	
69	0825M12025	• BOLT, Hex Hd	11	
70	0825M10030	• BOLT, Hex Hd	1	
71	0825M12110	• BOLT, Hex Hd (Not Shown)	4	
72	0825M24080	• BOLT, Hex Hd	4	
73	2104M010	• NUT, Hex	7	
74	2104M024	• NUT, Hex	4	
75	18Z1732D8	• WASHER, Conical Lock	8	
76	3648M010	• WASHER, Hardened	15	
77	3648M012	• WASHER, Hardened	11	
78	3648M024	• WASHER, Hardened	8	
79	R100015D1	• WASHER, Copper	3	

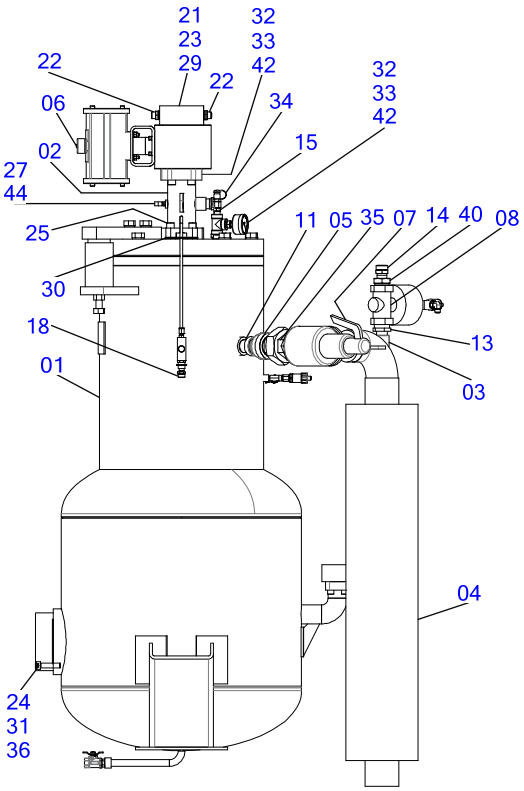
INSTALLATION, MAIN AIR

Item	Part No.	Description	Qty.	Page
80	R99412D1	・DECALS, AIR / OIL Tank (Not sold separately)	1	
80A		・・DECAL, PT_COIP		
80B		・・DECAL, RTD_CBA		
80C		・・DECAL, RTD_CCHO		
80D		・・DECAL, RTD_CO		
80E		・・DECAL, SV_CBA		
80F		・・DECAL, TTP_CAOR		
80G		・・DECAL, PT_CAI		
80H		・・DECAL, SV_MAR		
81	R109475D4	・HOSE ASSEMBLY, Metal, Comp Discharge	1	
82	R107018D1	・PIPE, Discharge	1	

RECEIVER, MAIN AIR ASSEMBLY







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RECEIVER, MAIN AIR ASSEMBLY

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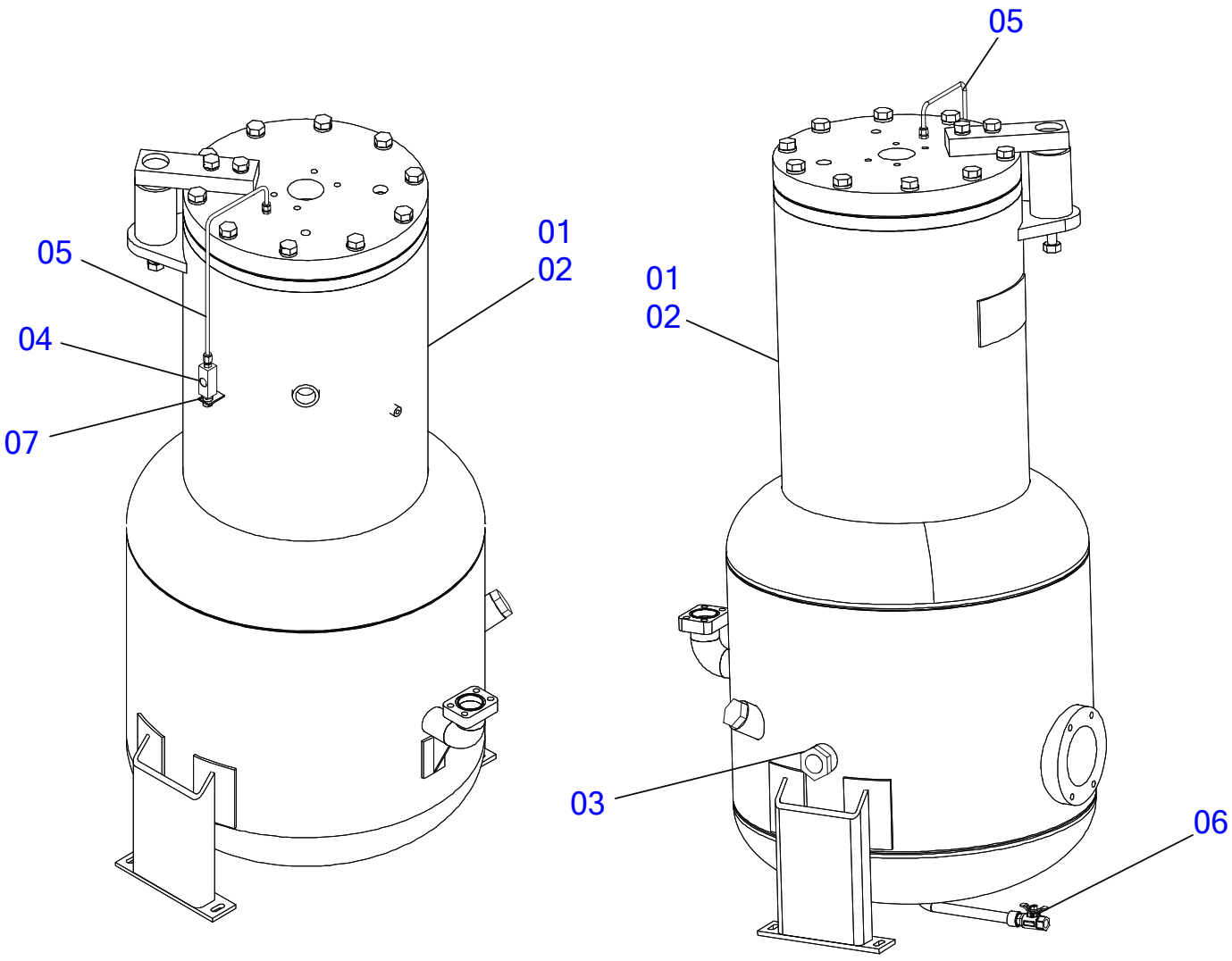
RECEIVER, MAIN AIR ASSEMBLY

Item	Part No.	Description	Qty.	Page
	R115708F1	RECEIVER, MAIN AIR ASSEMBLY		
01	R115708D1	· KIT, Receiver Tank 300PSIG	1	145
02	R115581D1	· PIPE ASSEMBLY	1	
03	R98394D1	· MANIFOLD, Exhaust Air	1	
04	27Q762D1	· MUFFLER	1	
05	2411V019	· COUPLING	1	
06	R98395D1	· VALVE, W/Actuator Ball	1	
07	R12262D8	· VALVE, Air Relief	1	
08	R56220D3	· VALVE, Pilot Operated	1	
09	2419V295	· NIPPLE, Pipe	1	
10	2450V254	· NIPPLE, Pipe	1	
11	2450V199	· NIPPLE, Pipe	1	
12	2450V103	· NIPPLE, Pipe	1	
13	44Z943D12	· NIPPLE, Reducing Pipe	1	
14	44Z2597D19	· ADAPTER	2	
15	44Z2597D10	· ADAPTER	1	
16	44Z2597D7	· ADAPTER	1	
17	44Z940D5	· ADAPTER	1	
18	44Z2597D8	· ADAPTER	2	
19	R73761D3	· ADAPTER	1	
20	R102814D1	· VALVE, 3-Way Spool	1	
21	R98358D1	· BLOCK, Injector	1	
22	R87378D12	· ADAPTER	2	
23	0830M16065	· SCREW, Socket Head	8	
24	0830V104	· SCREW, Socket Head	4	
25	0830V103	· SCREW, Socket Head Cap	4	
26	0830V084	· SCREW, Socket Head Cap	4	
27	R100015D1	· WASHER, Copper	1	
28	45Z532D228	· 2-RING, 75 Duro Viton	1	
29	45Z532D237	· O-RING	2	
30	45Z532D241	· O-RING	1	
31	45Z532D253	· O-RING	1	
32	R105965D2	· PRESSURE GAUGE, 600psi	1	
33	44Z826D5	· REDUCER, Pipe	1	
34	R18208D3	· COUPLING, Pressure Test	2	
35	2428V009	· UNION	1	
36	R115805D1	· ADAPTER, Flange - Code 61	1	
37	R115832D1	· ADAPTER	1	
38	44Z2574D2	· CONNECTOR, Reducing	1	
39	44Z826D11	· REDUCER, Pipe	1	

RECEIVER, MAIN AIR ASSEMBLY

Item	Part No.	Description	Qty.	Page
40	44Z826D16	▪ REDUCER, Pipe	1	
41	R75775D1	▪ BAPT TRANSDUCER PRESSURE CANopen	1	
42	2474V004	▪ 1/2 PIPE TEE-300# M.I.	1	
43	44Z686D2	▪ TEE, Service	1	
44	R89812D2	▪ TEMPERATURE SENSOR, RTD	1	
45	R89779D2	▪ CONNECTOR	2	
46	44Z2577D2	▪ ELBOW, 90 Degree	1	

TANK KIT, RECEIVER

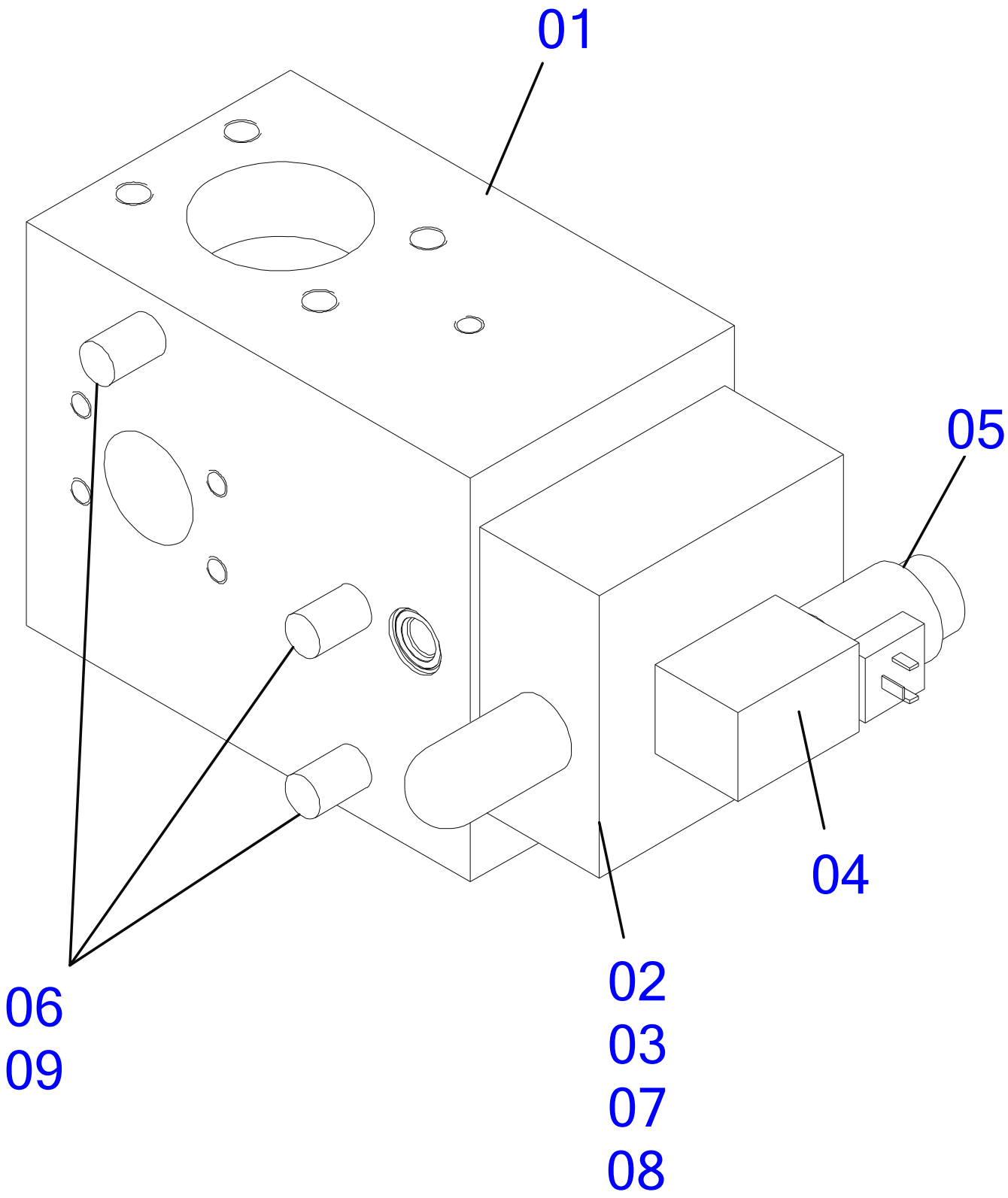


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TANK KIT, RECEIVER

Item	Part No.	Description	Qty.
	R115708D1	TANK KIT, RECEIVER	
01	R115709D1	▪ TANK, Air/Oil	1
02	R115709D2	▪ ELEMENT, Separator	1
03	R115709D3	▪ GAUGE, Sight, Oil Level	1
04	R115709D4	▪ GAUGE, Sight, Oil Return	1
05	R115709D5	▪ TUBE, Scavenge	1
06	R115709D6	▪ VALVE, Ball	1
07	R115709D7	▪ INSERT, Strainer Assembly	1

MANIFOLD ASSEMBLY, COOLER BYPASS

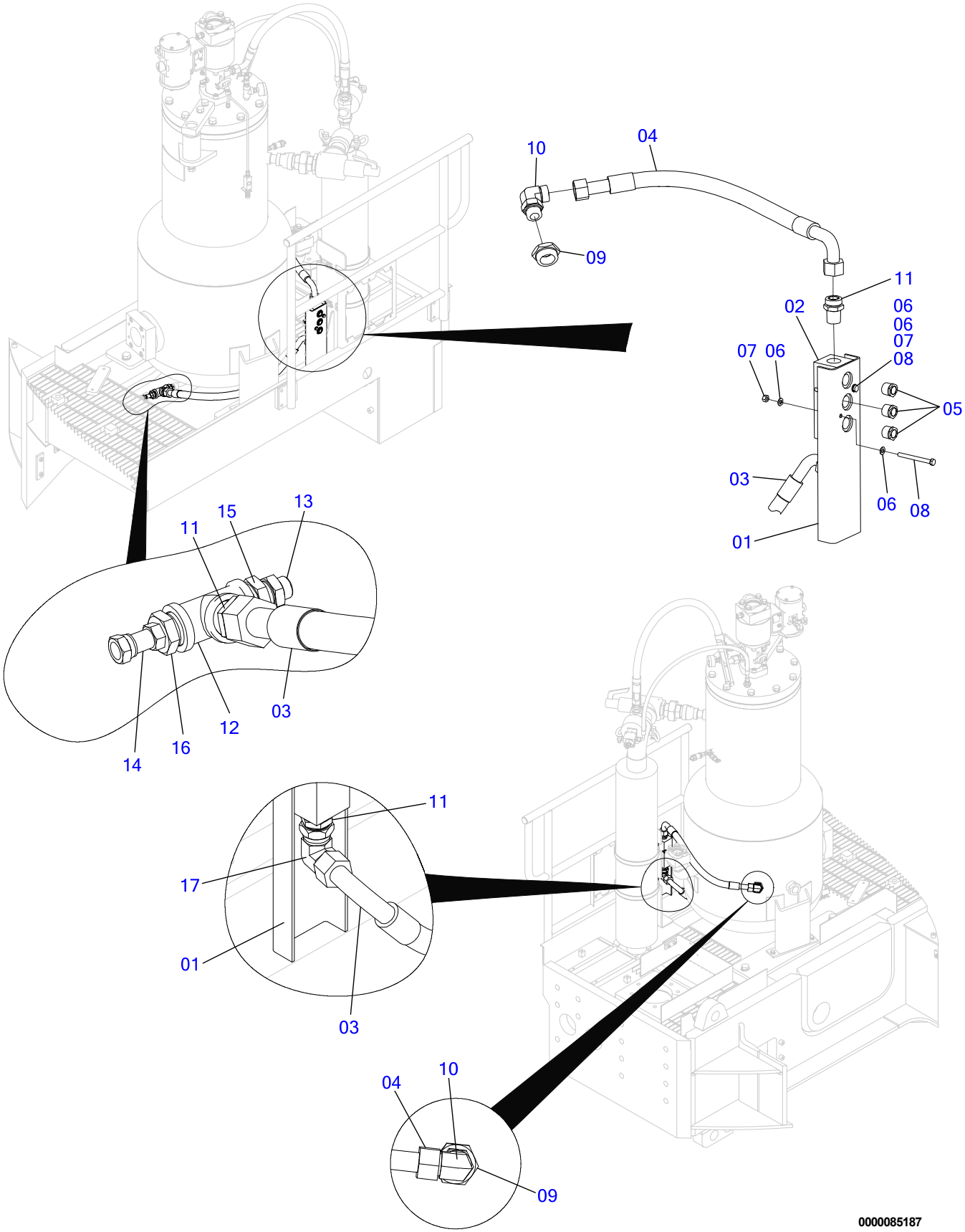


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MANIFOLD ASSEMBLY, COOLER BYPASS

Item	Part No.	Description	Qty.
	R89378F1	MANIFOLD ASSEMBLY, Cooler Bypass	
01	R89378D1	▪ BLOCK, Manifold	1
02	R89378D2	▪ VALVE, Logic - Pressure Control	1
03	R89378D3	▪ COVER, Logic Valve - Pressure Control	1
04	R89378D4	▪ VALVE, Directional Control	1
05	R89378D5	▪ SOLENOID, Control Valve	1
06	R89686D2	▪ TAP, Pressure	3
07	R9006874D1	▪ SEAL KIT, Pressure Control Logic Valve	1
08	R9006879D1	▪ SEAL KIT, Pressure Control Logic Valve Cover	1
09	R9006880D1	▪ SEAL KIT, Directional Control Valve	1

INSTALLATION KIT, SIGHT GLASS - MAIN AIR

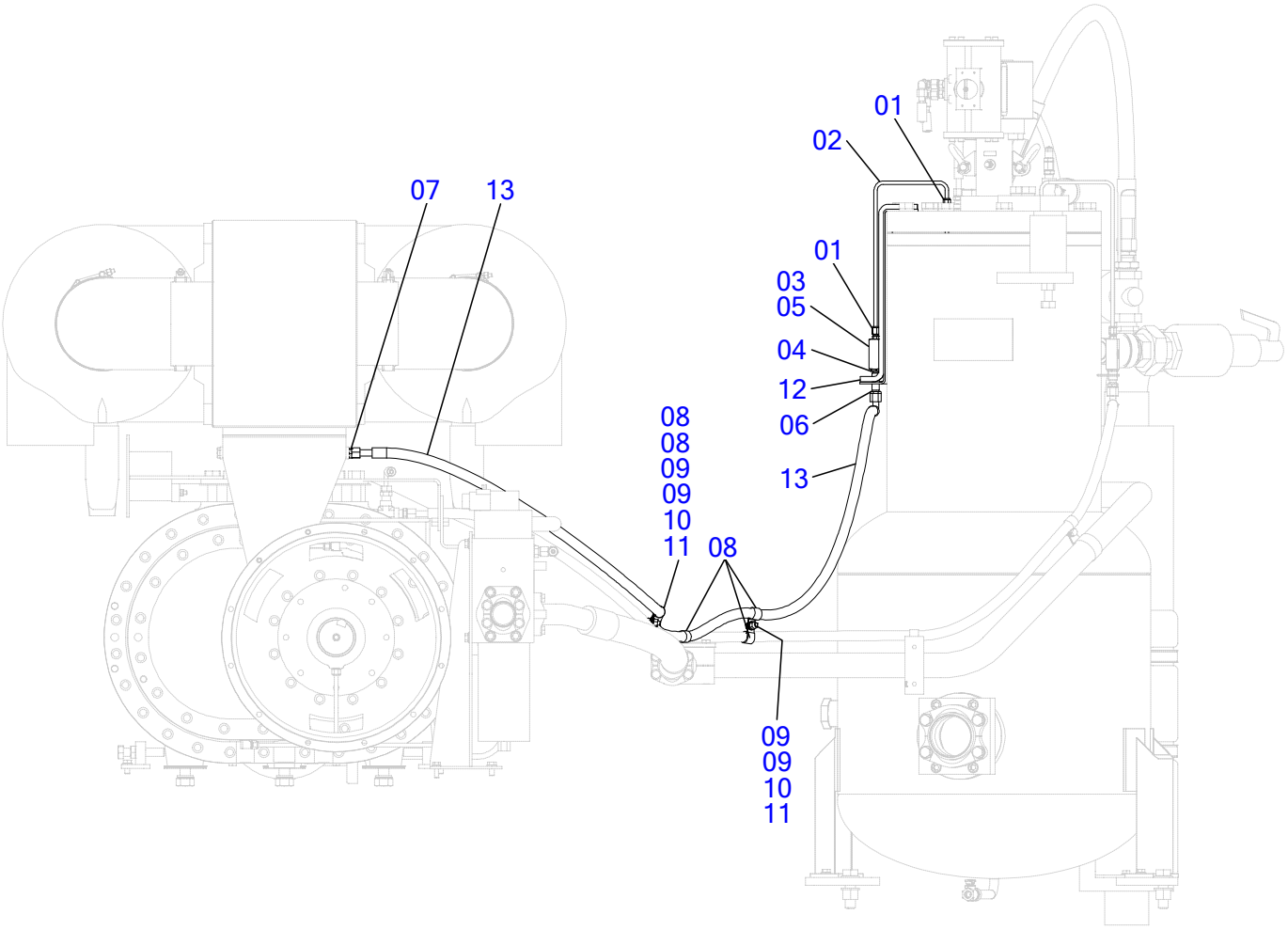


INSTALLATION KIT, SIGHT GLASS - MAIN AIR

INSTALLATION KIT, SIGHT GLASS - MAIN AIR

Item	Part No.	Description	Qty.
	R9003261F1	INSTALLATION KIT, SIGHT GLASS - MAIN AIR	
01	R9003265D1	· BRACKET, Sight Glass Manifold Mounting	1
02	R9003262D1	· MANIFOLD, Sight Glass	1
03	R81834T16D39	· HOSE ASSEMBLY	1
04	R81834T16D32	· HOSE ASSEMBLY	1
05	R9003263D1	· GAUGE, Sight	3
06	3648M008	· WASHER, Hardened	4
07	2104M008	· NUT, Hex	2
08	0825M08090	· BOLT, Hex Hd	2
09	44Z787D25	· CONNECTOR, Reducing	1
10	44Z2577D7	· ELBOW, 90 Degree	1
11	44Z2597D19	· ADAPTER	3
12	2425V006	· TEE, Pipe	1
13	44Z2597D11	· ADAPTER	1
14	R58095D6	· ADAPTER, Straight	1
15	44Z826D12	· REDUCER, Pipe	1
16	44Z826D11	· REDUCER, Pipe	1
17	44Z2582D7	· ELBOW, 90 Degree	1

FIELD KIT, SECOND OIL SCAVANGE LINE

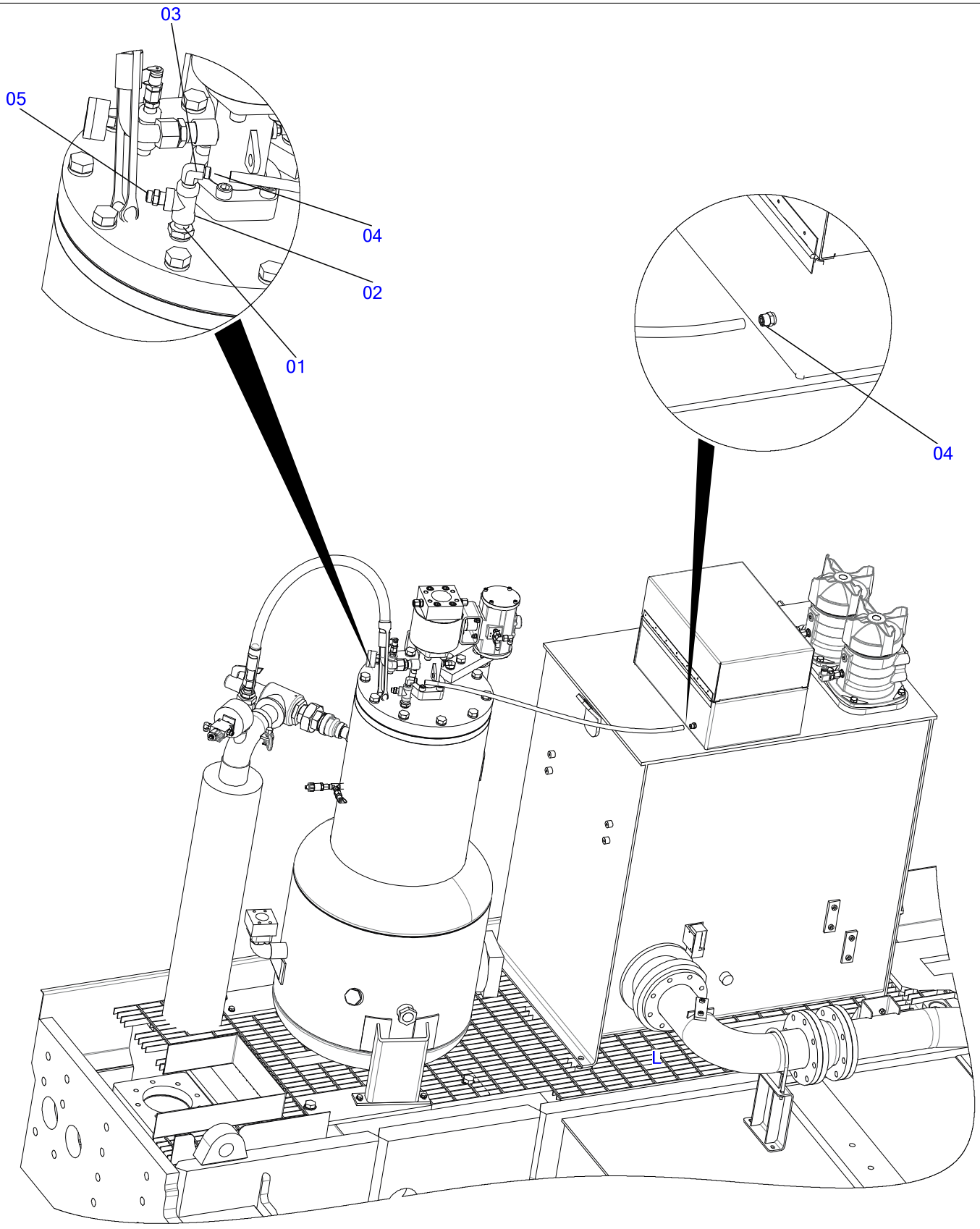


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FIELD KIT, SECOND OIL SCAVANGE LINE

Item	Part No.	Description	Qty.
	R9003323F1	FIELD KIT, SECOND OIL SCAVANGE LINE	
01	44Z803D11	· STRAIGHT ADAPTER	2
02	R115709D5	· TUBE, Scavenge	1
03	R115709D4	· GAUGE, Sight, Oil Return	1
04	R115709D8	· ADAPTER	1
05	R115709D7	· INSERT, Strainer Assembly	1
06	44Z2597D8	· ADAPTER	1
07	44Z2597D10	· ADAPTER	1
08	32Z423D2	· CLAMP, Insulated	5
09	0825M10025	· BOLT, Hex Hd	2
10	2104M010	· NUT, Hex	2
11	3648M010	· WASHER, Hardened	4
12	R9003619D1	· BRACKET, Scavenge Line, Receiver Tank	1
13	R115908T08D117	· HOSE ASSEMBLY	1

PRESSURIZATION KIT, HYDRAULIC TANK



KIT, HYDRAULIC TANK PRESSURIZATION

PRESSURIZATION KIT, HYDRAULIC TANK

Item	Part No.	Description	Qty.
	R9003681F1	PRESSURIZATION KIT, HYDRAULIC TANK	
01	2450V103	▪ NIPPLE	1
02	2474V004	▪ TEE	1
03	44Z2599D5	▪ ADAPTER	1
04	R81800T06D50	▪ HOSE ASSEMBLY	1
05	44Z2597D7	▪ CONNECTOR, Pipe	1

SOLENOID KIT, DUMP VALVE

Item	Part No.	Description	Qty.	Unit
	R9003826F1	SOLENOID KIT, DUMP VALVE		
01	R9003826Y1	・CABLE , 18 AWG, 2 Conductor	1	
	201280116	・・CABLE*PH2012* #18-2 COND	2	Foot
02	R121873D1	・PNEUMATIC SOLENOID VALVE, 3-Way	1	
03	44Z2597D24	・ADAPTER	1	
04	2419V102	・NIPPLE, Close	1	
05	R84897D1	・CONNECTOR, Receptacle, 2-Pin	1	
06	R84897D3	・WEDGE LOCK, Receptacle, 2-Pin	1	
07	R84897D5	・CONTACT PIN, Receptacle	2	
08	R66036D1	・CONNECTOR, Spring Pressure (2 Wire)	2	
09	R91787D2	・PULL ELBOW, 90 Degree	1	
10	85Z24D1	・GRIP, Cord	1	
11	79Z1918D1	・RING, Sealing	1	
12	0944V001	・LOCKNUT, Conduit	1	

POWER SKID ASSEMBLY

Item	Description	Page
01	PDT PUMPS ASSEMBLY	152
02	ENGINE INSTALLATION, CUMMINS QST30, Tier 4	157
03	FILTERS INSTALLATION, Exhaust and Air, CUMMINS QST30, Tier 4	161
04	DRIVE SHAFT INSTALLATION, 2000CFM Compressor	163
05	COMPRESSOR INSTALLATION, 2000CFM	164

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PDT PUMPS ASSEMBLY

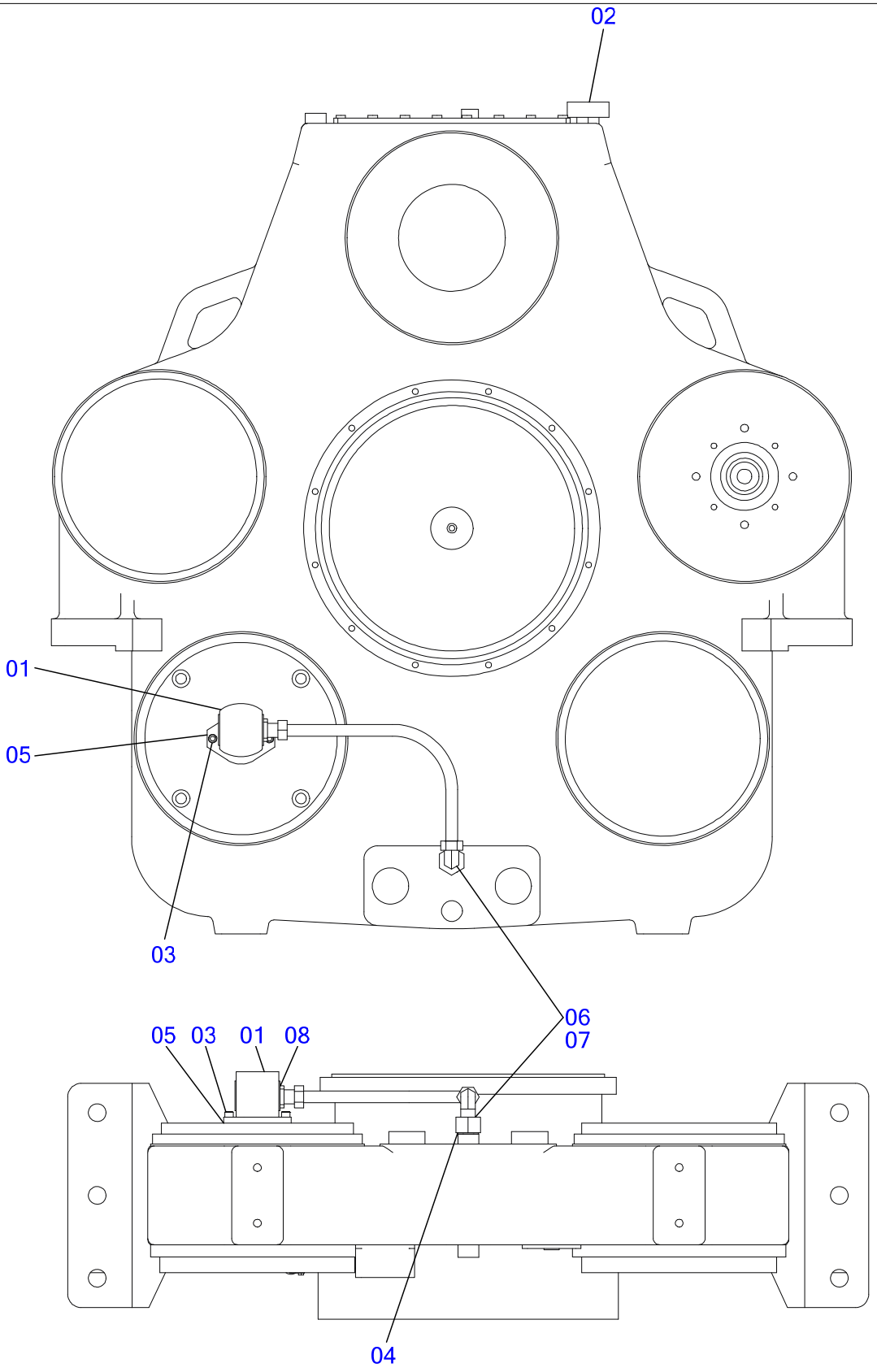
Item	Part No.	Description	Qty.	Page
	R9012809F1	PDT PUMPS ASSEMBLY		
01	R103315D2	▪ FRAME, Powerskid	1	
02	R90055D4	▪ PUMP DRIVE TRANSMISSION (PDT)	1	153
03	R89801D1	▪ PUMP ASSEMBLY, Hydrostatic / Charge	2	154
04	R89804D1	▪ PUMP, Auxiliary Hydraulic	1	155
05	R89800D1	▪ PUMP, Recirculation	1	
06	R100357D1	▪ FILTER ASSEMBLY	1	
	R100413D1	▪ ▪ ELEMENT, Filter	1	
07	R98553D2	▪ ADAPTER, Overhung Load	1	
08	R98591D1	▪ PLATE, Adapter, Alternator to PDT	1	
09	R90060D1	▪ ALTERNATOR, Auxiliary Power Unit	1	
10	R103694D1	▪ RAIL, Electrical Support	1	
11	R91294D1	▪ BRACKET, Cable	1	
12	R122359D1	▪ BRACKET, Pump Support	1	
13	R122360D1	▪ BRACKET, Pump Support	1	
14	R100358D2	▪ BRACKET, Filter Mounting	1	
15	R89909T08M24D69	▪ HOSE ASSEMBLY	1	
16	R100353D1	▪ ADAPTER	1	
17	R89777D8	▪ CONNECTOR	1	
18	R74417D1	▪ ISOLATOR, Two-Piece	10	
19	R74420D1	▪ WASHER, Two-Piece Isolator	10	
20	45Z91D63	▪ O-RING	6	
21	R88247D1	▪ MOUNT, Single	34	
22	R88247D2	▪ MOUNT, Single	1	
23	R90641D1	▪ STANDOFF, Cable	5	
24	R74817D1	▪ MODULE, I/O	3	
25	R90736D1	▪ TEE, Cable	4	
26	R90737D1	▪ TEE, Cable	3	
27	R76245D1	▪ RESISTOR, Terminating	1	
28	R99323D1	▪ STRAP, Ground	1	
29	R74816D1	▪ I/O MODULE	1	
30	R103696D3	▪ MOUNTING COVER, Quad I/O Module	1	
31	R91485D1	▪ I/O MODULE, A-Frame	6	
32	R4255434	▪ RECEPTACLE, Video Camera Front View	10	
33	20Q260D189	▪ SCREW, Hex Head Cap	2	
34	0630M10040	▪ SCREW, Socket Hd	8	
35	0630M10055	▪ SCREW, Socket Hd	12	
36	0630M30160	▪ SCREW, Socket Hd	6	
37	0825M12025	▪ BOLT, Hex Hd	11	
38	0630M12170	▪ SCREW, Socket Hd	4	

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PDT PUMPS ASSEMBLY

Item	Part No.	Description	Qty.	Page
39	0825M16025	• BOLT, Hex Hd	4	
40	0825M16045	• BOLT, Hex Hd	10	
41	R92400D2	• BOLT, Hex Hd Tap	4	
42	0825M24140	• BOLT, Hex Hd	4	
43	0825M24170	• BOLT, Hex Hd	6	
44	0825M12040	• BOLT, Hex Hd	2	
45	0630M04040	• SCREW, Socket Hd	2	
46	0630M05025	• SCREW, Socket Hd	12	
47	0630M05016	• SCREW, Socket Hd	4	
48	0825M10020	• BOLT, Hex Hd	12	
49	0825M10030	• BOLT, Hex Hd	3	
50	2104M024	• NUT, Hex	6	
51	2104M030	• NUT, Hex	6	
52	R43649D8	• NUT, Hex Jam	4	
53	2104M012	• NUT, Hex	2	
54	2104M004	• NUT, Hex	2	
55	2104M010	• NUT, Hex	27	
56	R99488D1	• SPACER, Engine Mount	6	
57	18Z694D2	• WASHER, Hardened	2	
58	3648M010	• WASHER, Hardened	21	
59	3648M012	• WASHER, Hardened	13	
60	3648M016	• WASHER, Hardened	14	
61	3648M024	• WASHER, Hardened	15	
62	3648M030	• WASHER, Hardened	6	
63	3510M012	• WASHER, Oversized	6	
64	18Z3087D1	• WASHER, Conical Lock	16	
65	18Z3087D4	• WASHER, Conical Lock	41	
66	18Z3087D5	• WASHER, Conical Lock	1	
67	3510M004	• WASHER, Oversized	4	
68	R104298D1	• DECALS, PDT Powerskid	1	
69	R120495D1	• DECAL, Ground Disconnect	1	
70	21Z772D4	• COMPOUND, Sealing and Locking	1	
71	R106804D1	• PUMP ASSEMBLY, Hydrostatic	1	156

TRANSMISSION, PUMP DRIVE (PDT)



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TRANSMISSION, PUMP DRIVE (PDT)

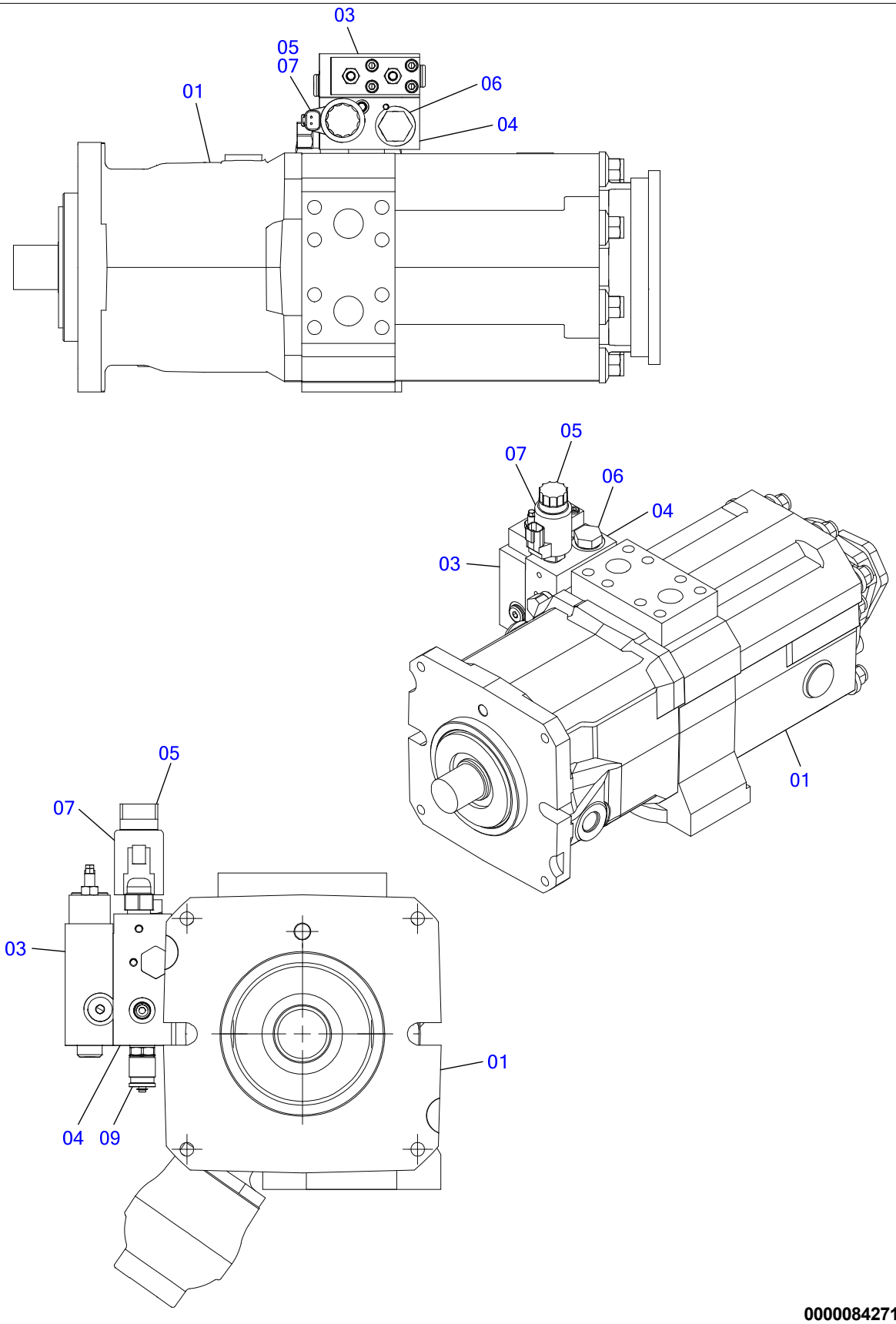
TRANSMISSION, PUMP DRIVE (PDT)

Item	Part No.	Description	Qty.
	R90055D4	TRANSMISSION, PUMP DRIVE (PDT)	
01	R100195D1	▪ PUMP, Lube	1
02	R114810D1	▪ BREATHER	1
03	0830M10025	▪ SCREW, Socket Hd	2
04	R100200D1	▪ SEAL, Ring	1
05	R100206D1	▪ ORING	1
06	45Z490D13	▪ O-RING	1
07	R9006872D1	▪ SEAL, Ring	1
08	R9006873D1	▪ O-RING, Gear Pump Flange Adapter	1

PUMP ASSEMBLY, HYDROSTATIC / CHARGE

Item	Part No.	Description	Qty.
	R89801D1	PUMP ASSEMBLY, HYDROSTATIC / CHARGE	
01	R89802D1	▪ PUMP, Hydrostatic	2
	R89964D1	▪ ▪ FILTER, Charge	1
02	R89803D1	▪ PUMP, Charge	1
03	R89964D1	▪ FILTER, Charge	2
04	R9006107D1	▪ TRANSDUCER, Swash Angle	2
05	R9006108D1	▪ COIL, Solenoid	4
06	R9006063D1	▪ O-RING, 80 DURO VITON	1
07	R9006065D1	▪ O-RING, 80 DURO VITON	1
08	R9006066D1	▪ O-RING, 80 DURO VITON	2
09	45Z91D59	▪ O-RING	1
10	R9006060D1	▪ TUBING KIT, Supercharge	2
11	44Z473D7	▪ FITTING, Swivel, 90 Degree	2
12	44Z472D7	▪ SWIVEL NUT	1
13	0627M12045	▪ SCREW, Hex Head Cap	2
14	0630M10040	▪ SCREW, Socket Hd	4
15	44Z2688D9	▪ ADAPTER	2
16	R9006061D1	▪ VALVE, High Pressure Relief	4
17	R9006062D1	▪ ADAPTER, Pump	1
18	0828M12045	▪ BOLT, Hex Head, Metric	2
19	0630M16055	▪ SCREW, Socket Hd	2
20	R107799D16010	▪ SPACER, Bolt	2

PUMP, AUXILIARY HYDRAULIC



0000084271

PUMP, AUXILIARY HYDRAULIC

PUMP, AUXILIARY HYDRAULIC

Item	Part No.	Description	Qty.
	R89804D1	PUMP, AUXILIARY HYDRAULIC	
01	R9005933D1	・HYDRAULIC PUMP, Tandem Axial, 105cc	1
02	R9005934D1	・SEAL KIT, Pump (Not Shown)	1
03	R9005935D1	・HYDRAULIC MODULE, LP Control	1
04	R9005936D1	・HYDRAULIC MODULE, LP Pressure Control	1
05	R9005937D1	・CARTRIDGE VALVE, Proportional Relief	1
	R119599D122	・・KIT, Seal	1
06	R9005938D1	・CARTRIDGE VALVE, Flow Control	1
	R119599D5	・・KIT, Seal	1
07	R87203D3	・COIL	1
08	R9005939D1	・CARTRIDGE, Filter (Not Shown)	1
	R9005940D1	・・FILTER ELEMENT	1
09	R9005943D1	・FITTING, Test Point, G1/4	1
10	R9005945D1	・O-RING, 90 DURO VITON, -012 (Not Shown)	7
11	0630M06050	・SCREW, Socket Hd (Not Shown)	1
12	0630M08075	・SCREW, Socket Hd (Not Shown)	3

PUMP ASSEMBLY, HYDROSTATIC

Item	Part No.	Description	Qty.
	R106804D1	PUMP ASSEMBLY, HYDROSTATIC	
01	R89964D2	· FILTER, Charge	2
02	R9011785D1	· PUMP, Hydrostatic	1
03	R9011786D1	· TUBING KIT, Supercharge	1
04	R9011896D1	· ADAPTER	2
05	R114315D10	· ADAPTER	2
06	R114315D11	· ADAPTER	2
07	0630M16055	· SCREW, Socket Hd	2
08	R9011788D1	· SEAL KIT	2
09	44Z472D6	· ELBOW, 45 Degree Swivel	1
10	R9011793D1	· ELBOW, 90 Degree	2
11	0630M12085	· SCREW, Socket Hd	2
12	R9011895D1	· O-RING, 80 DURO Viton, 115mm	1
13	R9006063D1	· O-RING, 80 DURO Viton, 132mm	1
14	R9006066D1	· O-RING, 80 DURO Viton, 84mm	2
15	R9006108D1	· COIL, Solenoid	4
16	R9012067D1	· PRESSURE RELIEF, 300 BAR	4
17	R9012068D1	· FLANGE, Intermediate Pump	1
18	R107799D16010	· SPACER, Bolt	2

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ENGINE INSTALLATION, CUMMINS QST30, TIER 4

Item	Part No.	Description	Qty.	Unit	Page
	R103739F5	ENGINE INSTALLATION, CUMMINS QST30, TIER 4			
01		▪ HOSE	1		
	508265110	▪ ▪ HOSE	68	Inch	
02	R106244D1	▪ ENGINE, CUMMINS QST30, Tier 4	1		158
03	R103310D1	▪ COUPLING, Elastometric Engine, with Failsafe	1		160
04	R103127D2	▪ HOUSING, Flywheel	1		
05	R103575D2	▪ MOUNT, Front Engine	1		
06	R103412D2	▪ ENGINE MOUNT, Rear - Right Side	1		
07	R103411D2	▪ ENGINE MOUNT, Rear - Left Side	1		
08	2433V008	▪ ELBOW, 90 Degree Reducing	1		
09	2433V011	▪ ELBOW, 90 Degree Reducing	1		
10	2416V020	▪ ELBOW, 90 Degree Street	1		
11	2478V011	▪ TEE, Reducing	2		
12	2478V027	▪ TEE, Reducing	1		
13	R98508D26	▪ NIPPLE, Brass, Barbed to NPT	1		
14	R98508D27	▪ NIPPLE, Brass, Barbed to NPT	3		
15	2419V172	▪ NIPPLE, Pipe	2		
16	2446V005	▪ PLUG, Pipe	5		
17	R58095D7	▪ FITTING, Straight	1		
18	R89217D12	▪ STUD, Adaptor	1		
19	44Z2582D4	▪ ADAPTER, 90 Degree	1		
20	R78953D25	▪ CLAMP 1.33 INCH	2		
21	R92065D2	▪ CLAMP 1.25 INCH TO 2.00 INCH	4		
22	32Z423D29	▪ CLAMP, Insulated	1		
23	32Z423D4	▪ CLAMP, Insulated	1		
24	R109416D1	▪ COVER, Mag Switch	1		
25	R101921D1	▪ COVER, Flywheel Access	3		
26	0630V104	▪ SCREW, Socket Head Cap	6		
27	0630M12035	▪ SCREW, Socket Head Cap, Metric	16		
28	0825M08016	▪ BOLT, Hex Hd	6		
29	0825M10030	▪ BOLT, Hex Hd	9		
30	0825M20040	▪ BOLT, Hex Hd	11		
31	0825M20100	▪ BOLT, Hex Hd	2		
32	0825M24060	▪ BOLT, Hex Hd	4		
33	0825M24080	▪ BOLT, Hex Hd	8		
34	2104M006	▪ NUT, Hex	2		
35	2104M010	▪ NUT, Hex	7		
36	2104M020	▪ NUT, Hex	2		
37	2104M024	▪ NUT, Hex	8		
38	3648M006	▪ WASHER, Hardened	2		

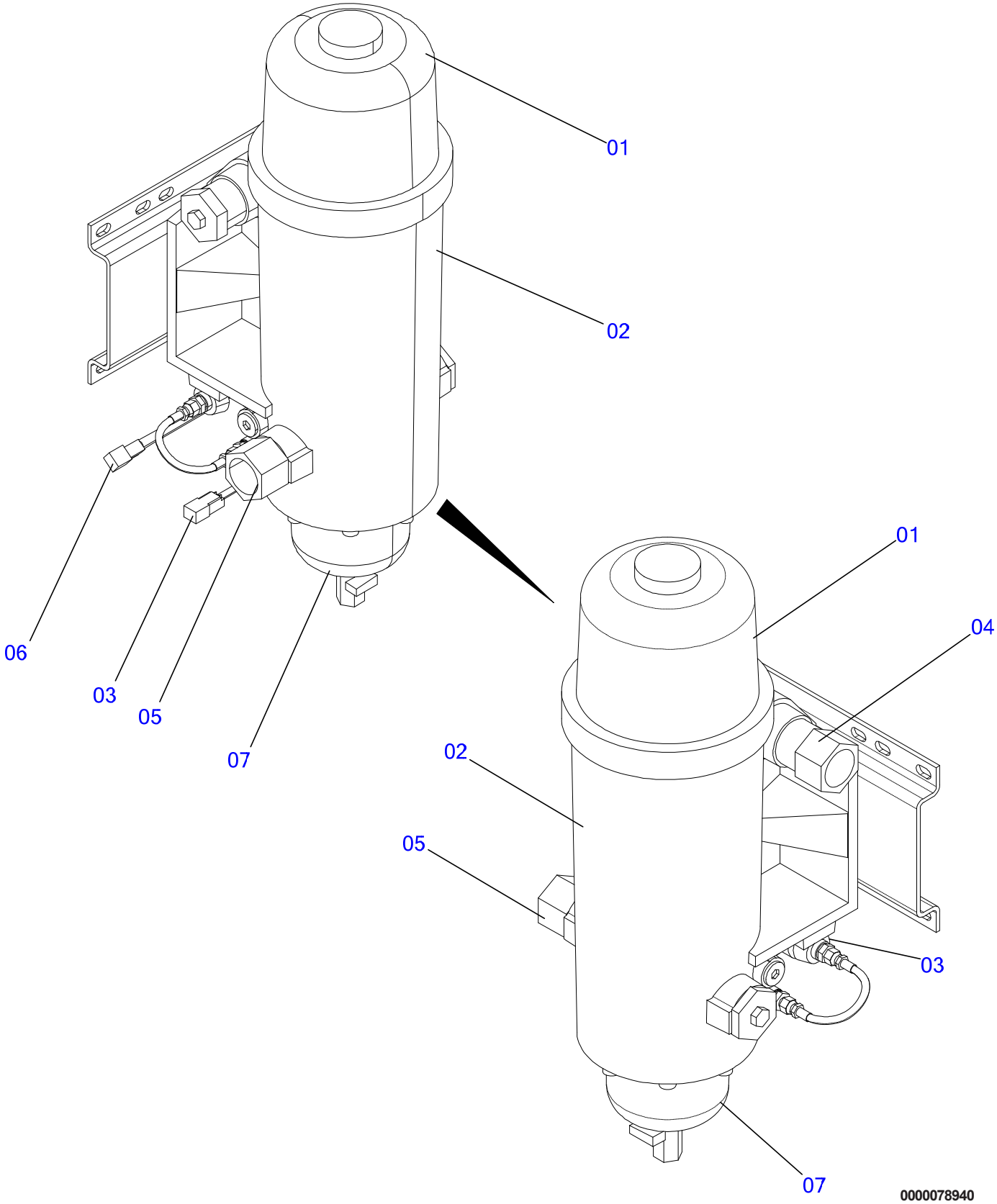
ENGINE INSTALLATION, CUMMINS QST30, TIER 4

Item	Part No.	Description	Qty.	Unit	Page
39	3648M008	· WASHER, Hardened	6		
40	3648M010	· WASHER, Hardened	14		
41	3648M012	· WASHER, Hardened	16		
42	3648M020	· WASHER, Hardened	12		
43	3648M024	· WASHER, Hardened	20		
44	20Z2490D9	· SHIM, .005	36		
45	20Z2490D10	· SHIM, .015	36		
46	20Z2490D11	· SHIM, .050	24		
47	20Z2490D12	· SHIM, .100	12		
48	R104301D1	· DECALS, Engine Powerskid	1		
49	21Z772D4	· COMPOUND, Sealing and Locking	1		

ENGINE, CUMMINS QST30, TIER 4

Item	Part No.	Description	Qty.	Page
	R106244D1	ENGINE, CUMMINS QST30, TIER 4		
01	R105138D1	▪ PUMP, Fuel Priming	1	
02	R103585D2	▪ GASKET, Turbo Exhaust Flange	2	
03	R103638D3	▪ GASKET, Flange	4	
04	R105243D1	▪ VALVE, Check	1	
05	R103457D1	▪ BRACKET, SCR Unit Mounting	4	
06	R103458D1	▪ SCR UNIT, CUMMINS, 4000 Series	2	
07	R107006D1	▪ CONNECTOR, Straight	4	
08	R105410D1	▪ MODULE, DEF Supply, 12V/24V	2	
	R107007D1	▪ ▪ KIT, Filter Cartridge	1	
09	R103551D2	▪ FILTER ASSEMBLY, Fuel - Stage 1	1	159
10	R105787D1	▪ SENSOR, Temperature	2	
11	R109991D1	▪ HARNESS, Fuel Filter Extension Wiring	1	
12	R115061D1	▪ SWITCH, Coolant Level	1	

FILTER ASSEMBLY, FUEL - STAGE 1

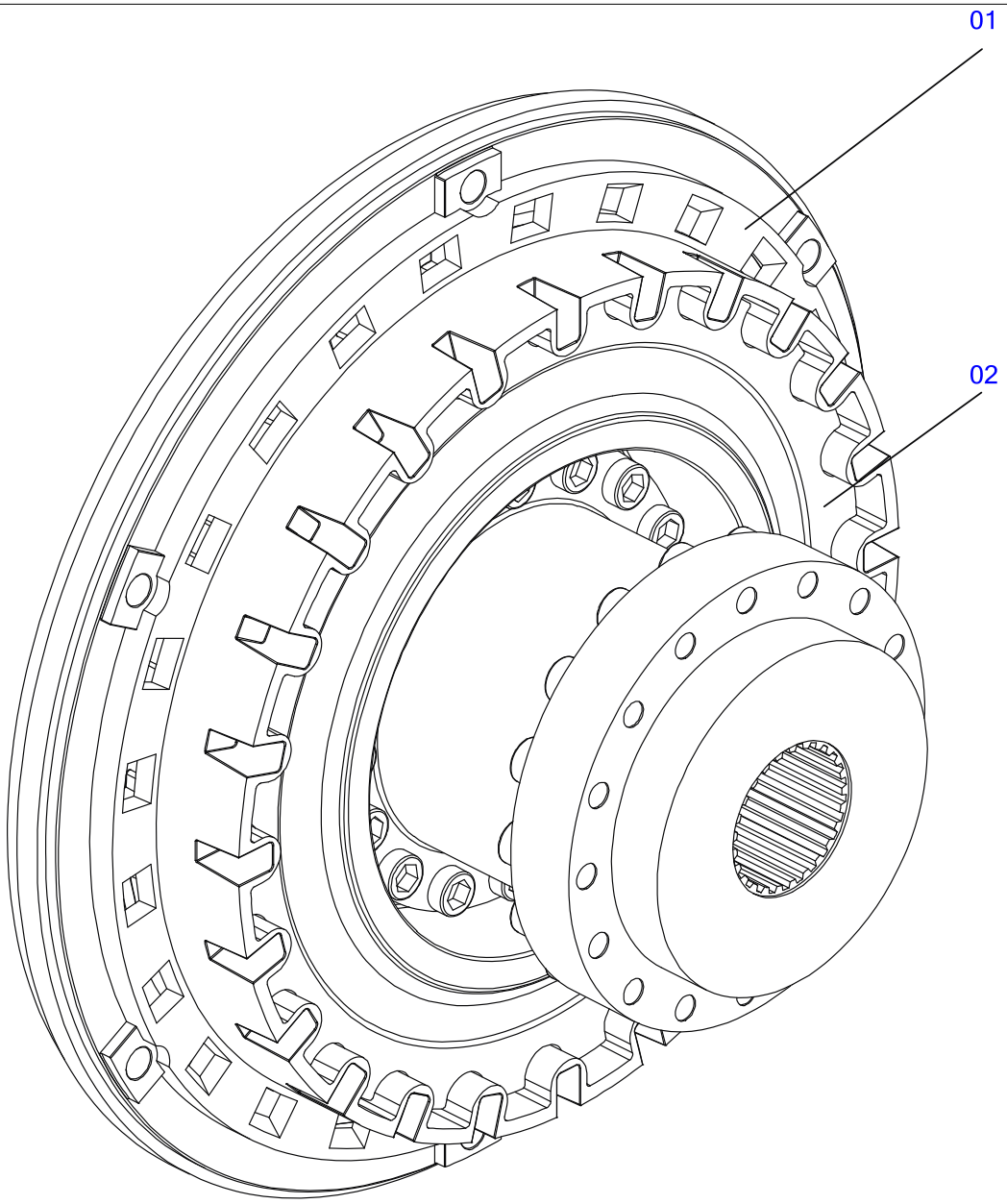


FILTER ASSEMBLY, FUEL - STAGE 1

FILTER ASSEMBLY, FUEL - STAGE 1

Item	Part No.	Description	Qty.
	R103551D2	FILTER ASSEMBLY, FUEL - STAGE 1	
01	R106961D1	· COVER ASSEMBLY	1
02	R106962D1	· ELEMENT, Filter	1
03	R106963D1	· PUMP, Priming	1
04	R106964D1	· VALVE, Check, Extended	1
05	R106965D1	· VALVE, Check, Bypass	1
06	R106966D1	· SENSOR, Water-in-Fuel	1
07	R106967D1	· BOWL ASSEMBLY, Bottom	1
08	R106968D1	· HARNESS, Water-in-Fuel Sensor (Not Shown)	1
09	R106969D1	· PRE-HEATER (Not Shown)	1

COUPLING, ELASTOMETRIC, WITH FAILSAFE



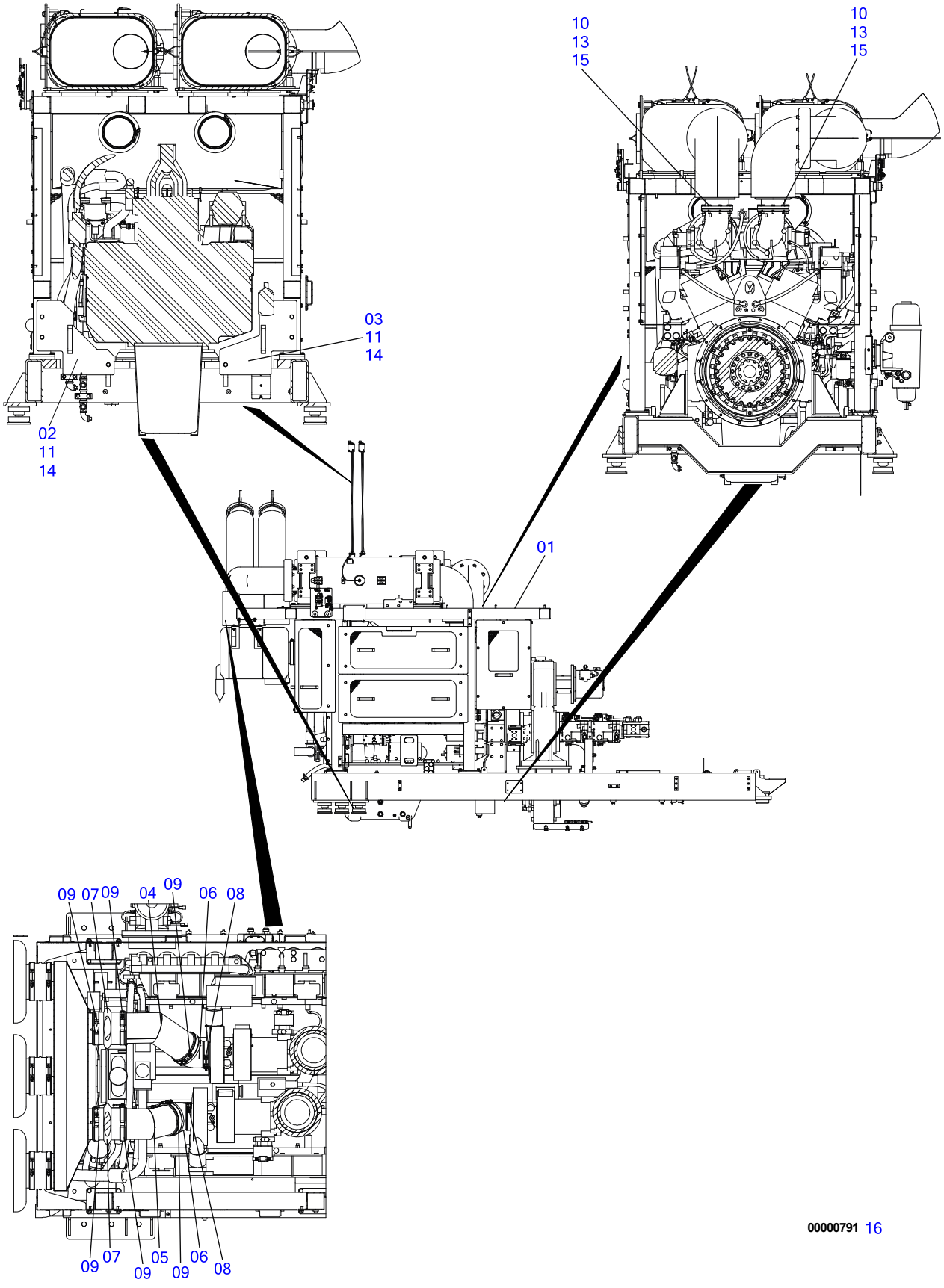
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COUPLING, ELASTOMETRIC W/FAILSAFE

COUPLING, ELASTOMETRIC, WITH FAILSAFE

Item	Part No.	Description	Qty.
	R103310D1	COUPLING, ELASTOMETRIC, WITH FAILSAFE	
01	R104913D1	▪ COUPLING FLANGE, Elastomeric	1
02	R104914D1	▪ COUPLING ELEMENT, Elastomeric	1

FILTERS INSTALLATION, EXHAUST AND AIR, CUMMINS TIER 4



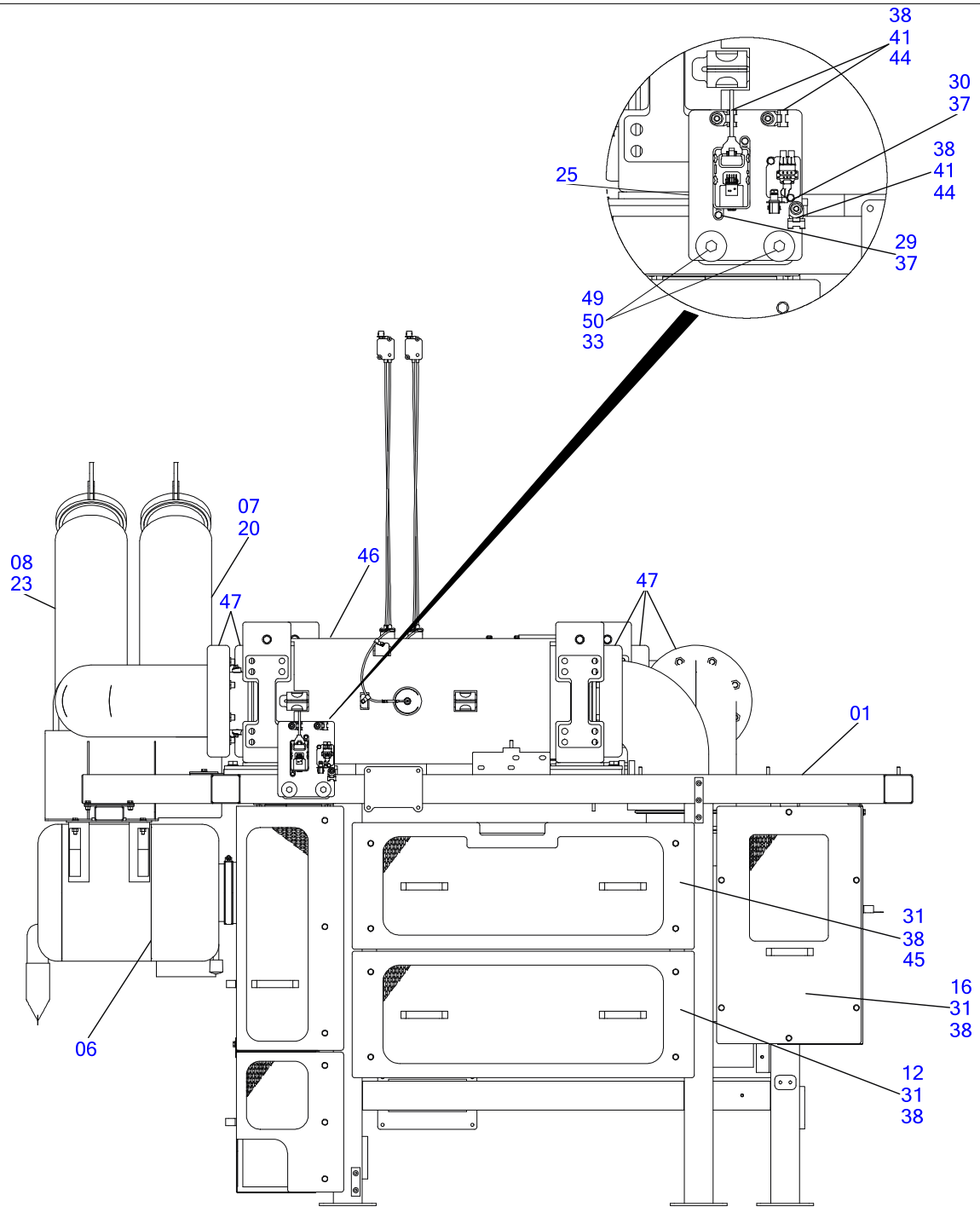
INSTALLATION, EXHAUST & AIR FILTERS, CUMMINS T4

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FILTERS INSTALLATION, EXHAUST AND AIR, CUMMINS TIER 4

Item	Part No.	Description	Qty.	Page
	R103349F3	FILTERS INSTALLATION, Exhaust and Air, CUMMINS QST30, Tier 4		
01	R103377F3	· FILTERS ASSEMBLY, Exhaust and Air, CUMMINS Tier 4	1	162
02	R103597D1	· GUARD, Engine	1	
03	R103598D1	· GUARD, Engine	1	
04	R104869D1	· DUCT, Engine Air Intake	1	
05	R104870D1	· DUCT, Engine Air Intake	1	
06	R103802D1	· REDUCER, Silicone Air Intake	2	
07	44Z808D6	· HOSE, Hump	2	
08	R55461D2	· CLAMP, T-Bolt	2	
09	R55461D13	· CLAMP, T-Bolt	6	
10	0825M10050	· BOLT, Hex Hd	16	
11	0825M12020	· BOLT, Hex Hd	6	
12	0825M12025	· BOLT, Hex Hd (Not Shown)	16	
13	3648M010	· WASHER, Hardened	32	
14	3648M012	· WASHER, Hardened	22	
15	2104M010	· NUT, Hex	16	

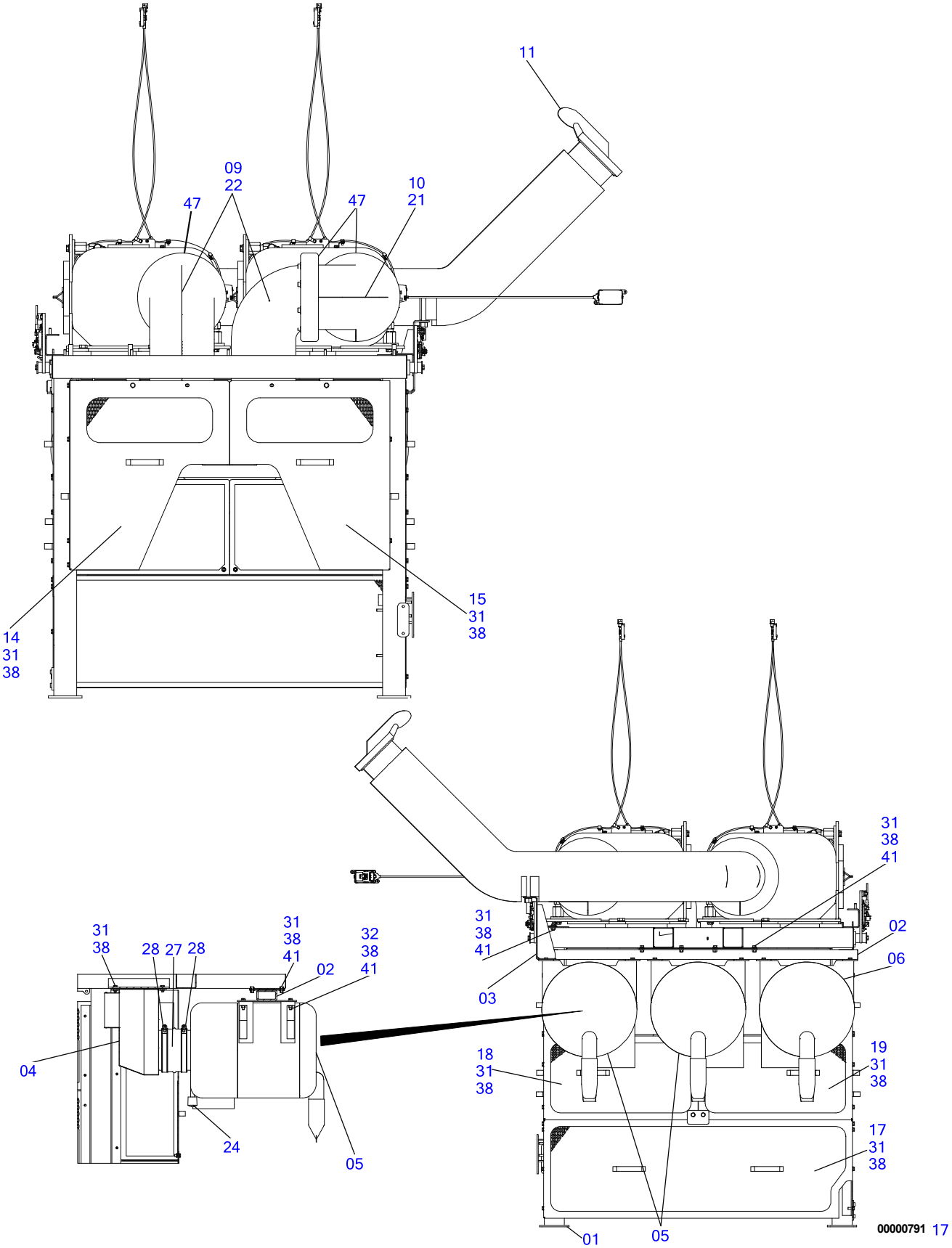
FILTERS ASSEMBLY, EXHAUST AND AIR, CUMMINS TIER 4



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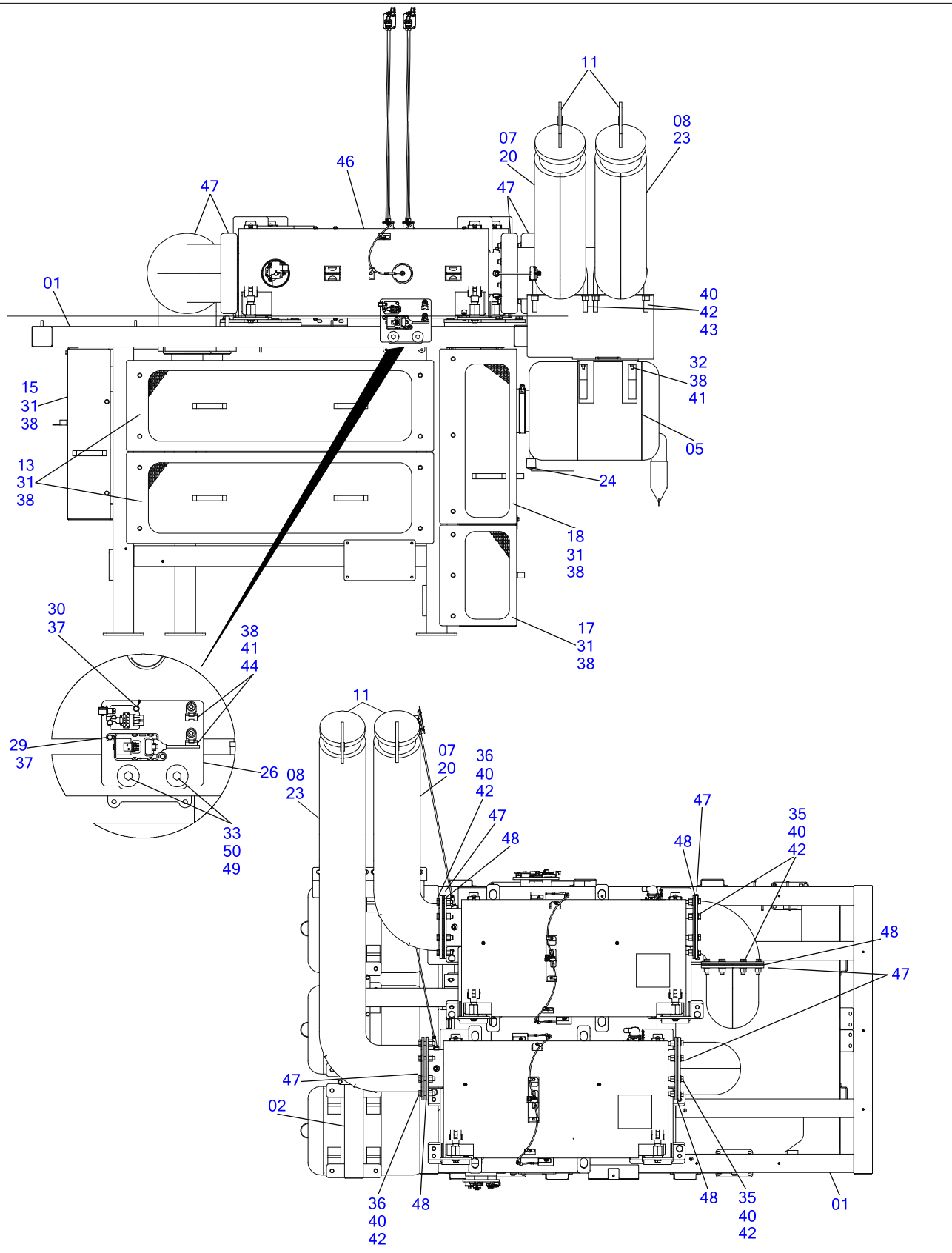
ASSEMBLY, EXHAUST & AIR FILTERS, CUMMINS T4

FILTERS ASSEMBLY, EXHAUST AND AIR, CUMMINS TIER 4



ASSEMBLY, EXHAUST & AIR FILTERS, CUMMINS T4

FILTERS ASSEMBLY, EXHAUST AND AIR, CUMMINS TIER 4



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ASSEMBLY, EXHAUST & AIR FILTERS, CUMMINS T4

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FILTERS ASSEMBLY, EXHAUST AND AIR, CUMMINS TIER 4

Item	Part No.	Description	Qty.
	R103377F3	FILTERS ASSEMBLY, EXHAUST AND AIR, CUMMINS TIER 4	
01	R104865D1	· SUPPORT, Exhaust & Air Cleaner	1
02	R105148D1	· BRACKET, Filter Support	1
03	R105186D1	· BRACKET, Exhaust Stack Support	1
04	R105343D1	· PLENUM, Intake Air	1
05	R97942D1	· FILTER, Air	2
06	R97942D3	· AIR FILTER, Engine	1
07	R103527D1	· EXHAUST STACK, Flanged	1
08	R105187D1	· EXHAUST STACK, Flanged	1
09	R105249D1	· CONNECTOR, Flex 90, Exhaust	2
10	R103945D2	· ELBOW, Exhaust	1
11	R76556D1	· CAP, Rain	2
12	R98875D1	· GUARD, Engine	1
13	R103530D1	· GUARD, Engine	2
14	R103975D1	· GUARD, Engine	1
15	R103976D1	· GUARD, Engine	1
16	R103974D1	· GUARD, Engine	1
17	R104660D1	· GUARD, Engine - Lower	1
18	R105260D1	· GUARD, Engine - Upper RH	1
19	R105260D2	· GUARD, Engine - Upper LH	1
20	R103568D2	· BLANKET, Insulating - Exhaust Stack	1
21	R103649D2	· BLANKET, Insulating - Flex Exhaust	1
22	R103649D4	· BLANKET, Insulating - Flex Exhaust	2
23	R105188D2	· BLANKET, Insulating - Exhaust Stack	1
24	R104680D3	· INDICATOR, Air Filter, Visual	3
25	R119338D1	· MOUNTING BRACKET, Screen Sensor Modules - Right	1
26	R119335D1	· MOUNTING BRACKET, Screen Sensor Modules - Left	1
27	44Z808D13	· HOSE, Hump	3
28	R55461D15	· CLAMP, T-Bolt	6
29	0825M06012	· BOLT, Hex Hd	4
30	0825M06025	· BOLT, Hex Hd	4
31	0825M10025	· BOLT, Hex Hd	53
32	0825M10050	· BOLT, Hex Hd	12
33	0825M12070	· BOLT, Hex Hd	4
34	0825M20040	· BOLT, Hex Hd (Not Shown)	12
35	0825M20070	· BOLT, Hex Hd	24
36	0825M20075	· BOLT, Hex Hd	16
37	3648M006	· WASHER, Hardened	8
38	3648M010	· WASHER, Hardened	91
40	3648M020	· WASHER, Hardened	96

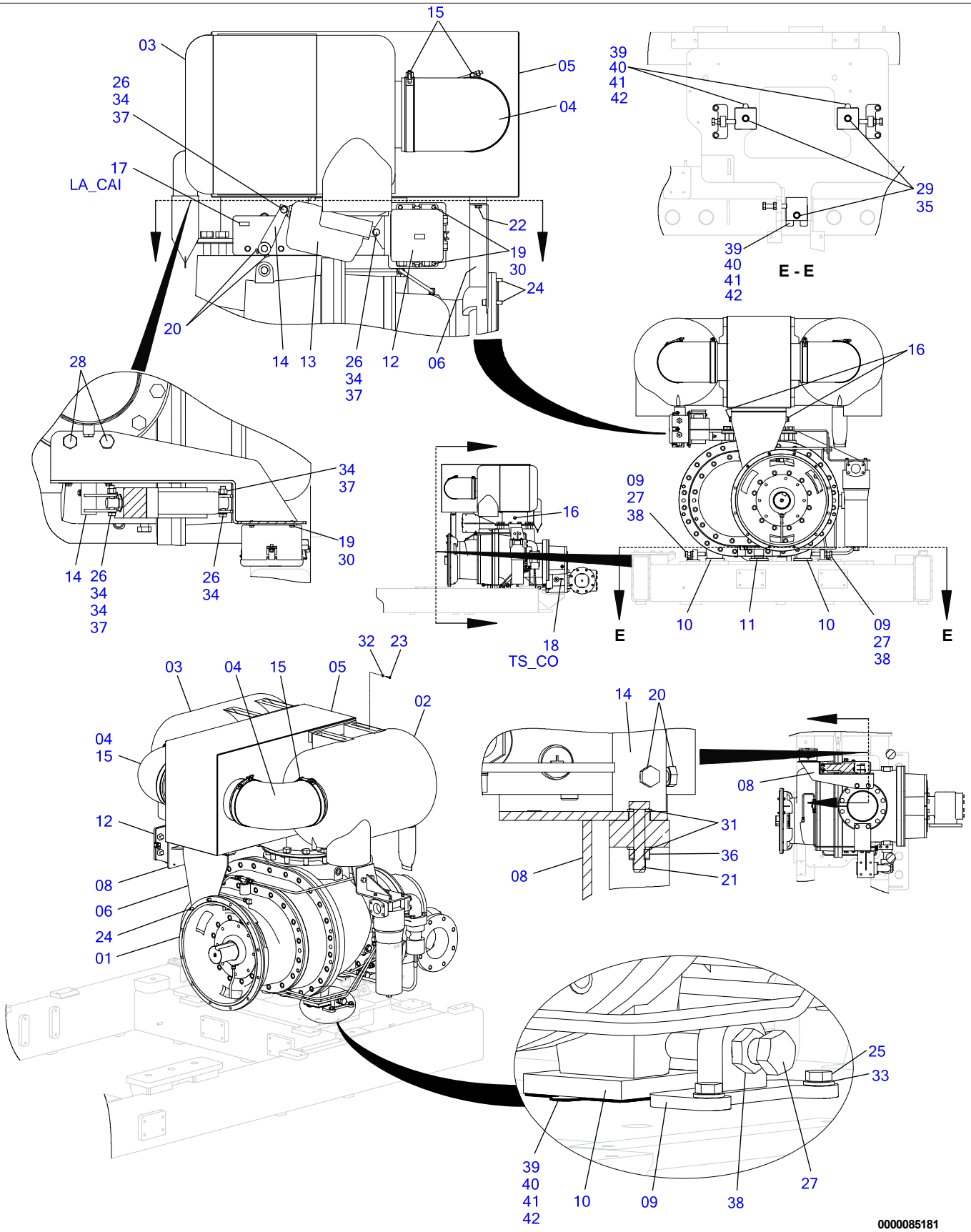
FILTERS ASSEMBLY, EXHAUST AND AIR, CUMMINS TIER 4

Item	Part No.	Description	Qty.
41	2104M010	· NUT, Hex	26
42	2104M020	· NUT, Hex	44
43	R87756D12	· U-BOLT	2
44	R88247D1	· MOUNT, Single	5
45	R108239D1	· GUARD, Engine	1
46	R109385D1	· BLANKET, Insulating	2
47	R103649D9	· BLANKET, Insulating - Flange	5
48	R103638D2	· GASKET, 8.00 IN ANSI Flange	5
49	R119333D1	· ISOLATOR	4
50	R119336D1	· WASHER, Snubbing	4

DRIVE SHAFT INSTALLATION, 2000CFM COMPRESSOR

Item	Part No.	Description	Qty.
	R103904F1	DRIVE SHAFT INSTALLATION, 2000CFM COMPRESSOR	
01	R101614D1	· COVER, Driveshaft End - PDT	1
02	R101615D1	· COVER, Driveshaft Bottom	1
03	R101616D1	· COVER, Driveshaft End - Compressor	1
04	R101875D1	· COVER, Driveshaft Top	1
05	R101617D1	· HUB, Driveshaft	1
06	R101770D1	· WASHER, Input Hub Retainer	1
07	R89726D127	· SNAP RING, Internal Metric,127mm	1
08	R101874D1	· YOKE, Driveshaft Flange	1
09	R103313D1	· DRIVE SHAFT	1
10	R99584D2	· KEY, Shaft	1
11	0683M16025	· SET SCREW, Hex Socket, Cup Point	1
12	0830M10025	· SCREW, Socket Head	12
13	0830M10050	· SCREW, Socket Head	12
14	0825M12035	· BOLT, Hex Hd	12
15	0825M12060	· BOLT, Hex Hd	8
16	0825M16040	· BOLT, Hex Hd	14
17	20Q324D328	· SCREW, Hex Head Cap	1
18	2104M016	· NUT, Hex	8
19	3648M010	· WASHER, Hardened	24
20	3648M016	· WASHER, Hardened	22
21	21Z772D4	· COMPOUND, Sealing and Locking	1

COMPRESSOR INSTALLATION, 2000CFM



COMPRESSOR INSTALLATION, 2000CFM

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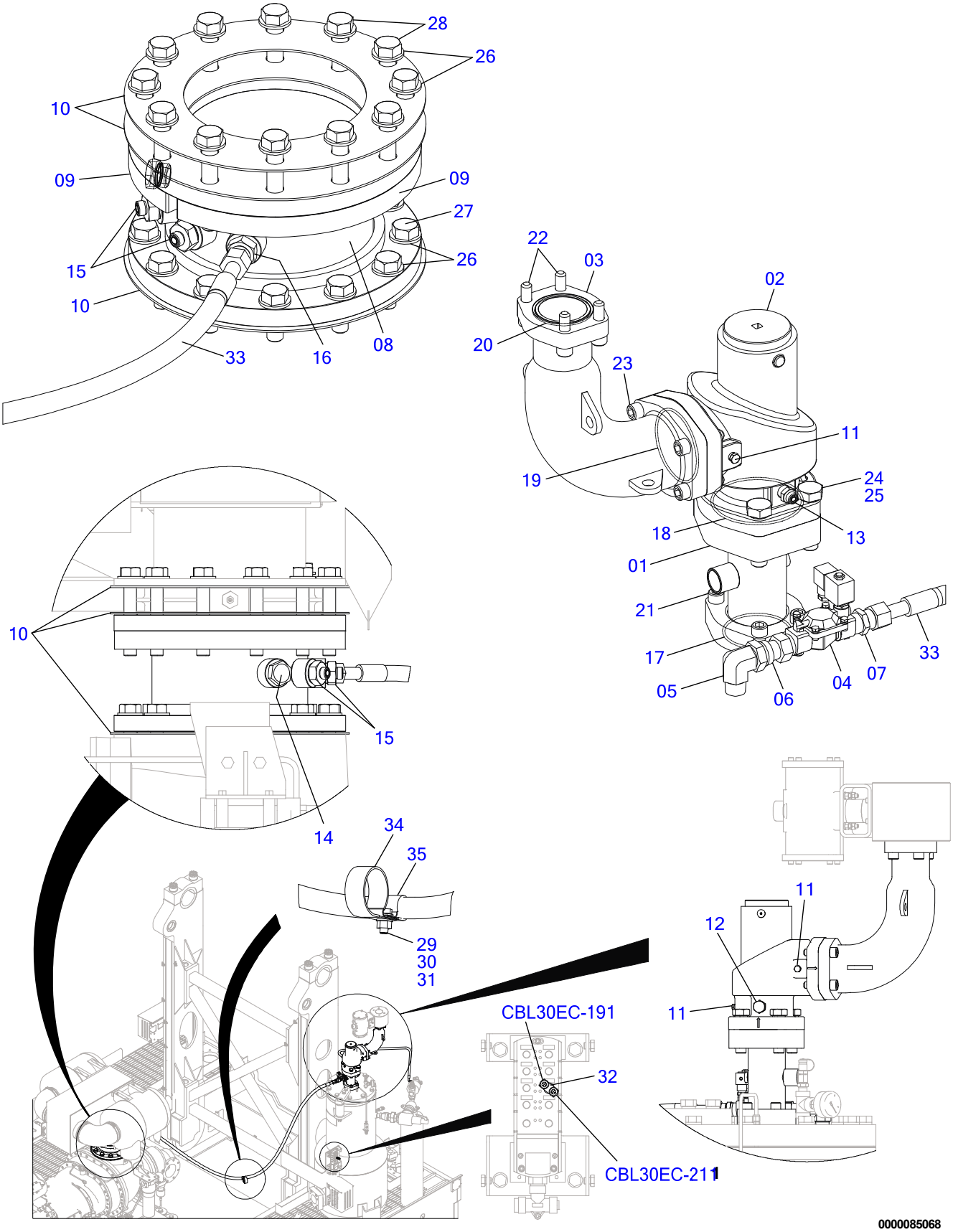
COMPRESSOR INSTALLATION, 2000CFM

Item	Part No.	Description	Qty.	Page
		COMPRESSOR INSTALLATION, 2000CFM (Originially R9012810F1.)		
		NOTE: This assembly modified by Minimum Pressure Valve Kit R9016533F1.		165
01		▪ ASSEMBLY, COMPRESSOR - 2000CFM (When replacing the compressor, order kit R9030372 Field Replacement kit. This kit does include a new Compressor Assembly.)	1	166
02	R97942D4	▪ FILTER, AIR - Main Compressor LH	1	
02A	R98865D1	▪ ▪ ELEMENT, Filter - Primary	1	
02B	R98865D2	▪ ▪ ELEMENT, Filter - Safety	1	
03	R97942D5	▪ FILTER, AIR - Main Compressor RH	1	
03A	R98865D1	▪ ▪ ELEMENT, Filter - Primary	1	
03B	R98865D2	▪ ▪ ELEMENT, Filter - Safety	1	
04	R76643D1	▪ ELBOW, 90 Degree Rubber	2	
05	R122362D1	▪ AIR INTAKE, Compressor	1	
06	R122443D1	▪ BRACKET, Intake Plenum Support	1	
07	R104915D2	▪ GASKET, Butterfly Valve (Not Shown)	1	
08	R9002190D1	▪ BRACKET, Actuator, Compressor Inlet	1	
09	R103725D1	▪ BLOCK, Adjustment	2	
10	R101490D1	▪ BLOCK, Compressor Spacer	2	
11	R101492D1	▪ BLOCK, Compressor Spacer	1	
12	R99714F2	▪ JUNCTION BOX, Compressor Inlet	1	168
13	R99126D1	▪ ACTUATOR, Linear	1	
14	R122354D1	▪ LINKAGE, Compressor Inlet Valve	1	
15	R55461D16	▪ CLAMP, T-Bolt	4	
16	44Z1010D4	▪ PLUG, Pipe	2	
17	R104299D2	▪ DECAL	1	
18	R104299D1	▪ DECALS, Compressor Powerskid	1	
19	0825M06012	▪ BOLT, Hex Hd	4	
20	0825M08016	▪ BOLT, Hex Hd	2	
21	0825M08045	▪ BOLT, Hex Hd	2	
22	0825M10030	▪ BOLT, Hex Hd	2	
23	0830M10035	▪ SCREW, Socket Hd	8	
24	0830M10050	▪ SCREW, Socket Hd	2	
25	0825M12025	▪ BOLT, Hex Hd	4	
26	0825M12070	▪ BOLT, Hex Hd	2	
27	R92400D2	▪ BOLT, Hex Hd Tap	3	
28	20Q324D499	▪ SCREW, Hex Head Cap	4	
29	20Q324D539	▪ SCREW, Hex Head Cap	3	
30	3648M006	▪ WASHER, Hardened	4	
31	3648M008	▪ WASHER, Hardened	4	
32	3648M010	▪ WASHER, Hardened	12	
33	3648M012	▪ WASHER, Hardened	4	

COMPRESSOR INSTALLATION, 2000CFM

Item	Part No.	Description	Qty.	Page
34	R82264D21	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4	
35	18Z694D10	▪ WASHER, Hardened	3	
36	2104M008	▪ NUT, Hex	2	
37	2104M012	▪ NUT, Hex	2	
38	R43649D8	▪ NUT, Hex Jam	3	
39	20Z2490D9	▪ SHIM, .005	9	
40	20Z2490D10	▪ SHIM, .015	9	
41	20Z2490D11	▪ SHIM, .050	6	
42	20Z2490D12	▪ SHIM, .100	3	
43	21Z772D4	▪ COMPOUND, Sealing and Locking (Not Shown)	1	

ADAPTER KIT, MINIMUM PRESSURE VALVE



ADAPTER KIT, MINIMUM PRESSURE VALVE

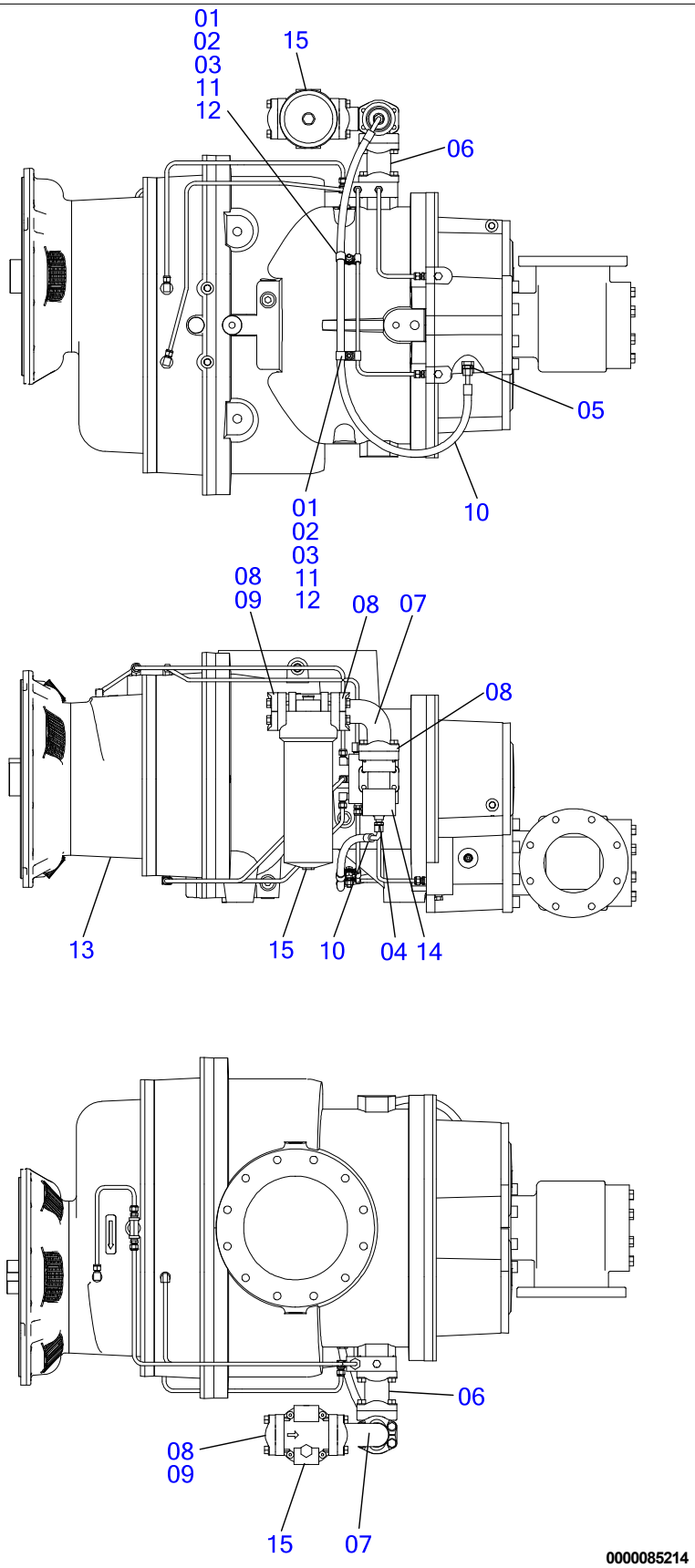
ADAPTER KIT, MINIMUM PRESSURE VALVE

Item	Part No.	Description	Qty.
	R9016533F1	ADAPTER KIT, MINIMUM PRESSURE VALVE	
01	R9016459	· PIPE ASSEMBLY	1
02	R9012633	· VALVE, Minimum Pressure	1
03	R9012638	· ELBOW, Flanged	1
04	R9011492D1	· VALVE, Solenoid	1
05	44Z2599D16	· ELBOW, 90 Degree Adapter	1
06	R58095D9	· ADAPTER, Straight	1
07	44Z2597D17	· ADAPTER	1
08	R9011016	· ADAPTER, Recirculation	1
09	R9011455	· TAP BLOCK	2
10	R104915D2	· GASKET, Butterfly Valve	3
11	44Z1010D2	· PLUG, Pipe	3
12	44Z1010D5	· PLUG, Pipe	1
13	44Z2597D7	· ADAPTER	1
14	R108705D10	· PLUG	1
15	44Z2574D18	· CONNECTOR, Reducing	2
16	44Z2574D23	· CONNECTOR, Reducing	1
17	45Z532D241	· O-RING	1
18	45Z532D252	· O-RING	1
19	45Z532D245	· O-RING	1
20	45Z532D237	· O-RING	1
21	0830V103	· SCREW, Socket Head Cap	4
22	0830M16055	· SCREW, Socket Hd	4
23	0830M16065	· SCREW, Socket Hd	4
24	3648M016	· WASHER, Hardened	4
25	0625M16055	· SCREW, Hex Hd Cap	4
26	18Z2070D9	· WASHER, Hardened	24
27	20Q324D494	· SCREW, Hex Head Cap	12
28	20Q324D504	· SCREW, Hex Head Cap	12
29	3648M010	· WASHER, Hardened	2
30	0825M10025	· BOLT, Hex Hd	1
31	2104M010	· NUT, Hex	1
32	R91485D1	· I/O MODULE, A-Frame No. 1	1
CBL30EC-191		· · CABLE	1
CBL30EC-211		· · CABLE	1
33	R113213T12D132	· HOSE ASSEMBLY	1
34	32Z423D46	· CLAMP, Insulated	1
35	32Z423D24	· CLAMP, Insulated	1
36	R89377D1	· SPACER, Dual Saddle (Not Shown)	5
37	R88249D1	· TIE, Wire (Not Shown)	10

ADAPTER KIT, MINIMUM PRESSURE VALVE

Item	Part No.	Description	Qty.
38	R90650T31D200	• CABLE, Adapter (Not Shown)	1
40	21Z772D4	• COMPOUND, Sealing and Locking (Not Shown)	1

FIELD REPLACEMENT KIT, AIR COMPRESSOR

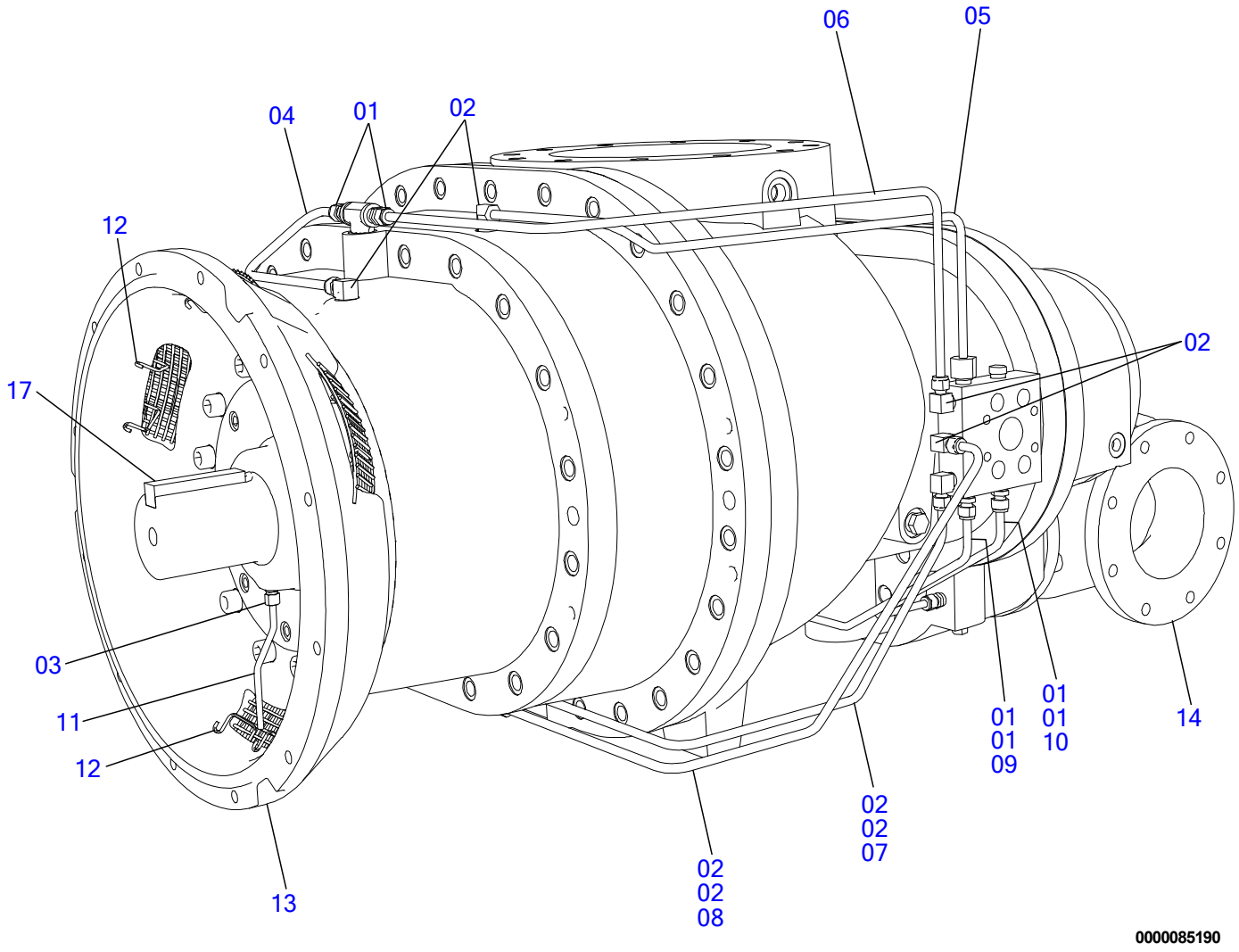


FIELD REPLACEMENT KIT, AIR COMPRESSOR

FIELD REPLACEMENT KIT, AIR COMPRESSOR

Item	Part No.	Description	Qty.	Page
	R9030372	FIELD REPLACEMENT KIT, AIR COMPRESSOR		
01	0825M10025	▪ BOLT, Hex Hd	2	
02	32Z423D3	▪ CLAMP, Insulated	2	
03	32Z423D50	▪ CLAMP, Insulated	2	
04	44Z2597D6	▪ ADAPTER	1	
05	44Z2597D7	▪ ADAPTER	1	
06	R9027725	▪ ADAPTER, Union	1	
07	R9028272	▪ ADAPTER	1	
08	R115838D6	▪ KIT, Split Flange	5	
09	44T842D10	▪ PLUG, Flange	1	
10	R113214T06D51	▪ HOSE ASSEMBLY	1	
11	2104M010	▪ NUT, Hex	2	
12	3648M010	▪ WASHER, Hardened	4	
13	R9025609D1	▪ COMPRESSOR ASSEMBLY	1	167
14	R9025646	▪ VALVE, Oil Stop	1	
15	R9023884	▪ FILTER ASSEMBLY, 20 Micron	1	
15A	R100422D1	▪ ▪ ELEMENT, Filter		
15B	R9006997D1	▪ ▪ OIL FILTER KIT, Bowel and Dust Seal		
15C	R9006996D1	▪ ▪ INDICATOR, Oil Filter Maintenance		

COMPRESSOR ASSEMBLY



COMPRESSOR ASSEMBLY

Item	Part No.	Description	Qty.	Unit
	R9025609D1	COMPRESSOR ASSEMBLY		
01	R9025619	▪ FITTING, Straight	7	Each
02	R9025620	▪ FITTING, Elbow	7	Each
03	R9026305	▪ CONNECTOR	1	Each
04	R9025612	▪ TUBE, Ooutboard Bearing	1	Each
05	R9026500	▪ TUBE, Inboard Bearing	1	Each
06	R9026501	▪ TUBE, Gear Mesh	1	Each
07	R9026502	▪ TUBE, MaleInlet Bearing	1	Each
08	R9026503	▪ TUBE, Female Inlet Bearing	1	Each
09	R9026504	▪ TUBE, Male Discharge Bearing	1	Each
10	R9026505	▪ TUBE, Female Discharge Bearing	1	Each
11	R9026304	▪ TUBE, Seal Drain	1	Each
12	R9025622	▪ GUARD, SAE Adapter Wire	4	Each
13	R9025610	▪ KIT, SAE Adapter	1	Each
14	R9025611	▪ VALVE, Discharge Assembly	1	Each
15	R9025621	▪ KIT, Shaft Seal (Not Shown)	1	Each
16	R9025623	▪ O-RING (Between Compressor and Discharge Check Valve) (Not Shown)	1	Each
17	R9026492	▪ KEY, 7/8 inch x 7/8 inch	1	Each

JBOX, COMPRESSOR INLET

Item	Part No.	Description	Qty.
	R99714F2	JBOX, COMPRESSOR INLET	
01	R99714Y1	· DIN RAIL, Type-O	1
02	14Z545D4	· NEMA 4 ENCLOSURE/PANEL	1
03	85Z24D1	· GRIP, Cord	4
04	R90745D1	· TERMINAL BLOCK, Double Level	9
05	R90705D1	· MARKER, Terminal Block	1
06	R90705D11	· MARKER, Terminal Block	1
07	R82620D7	· BLOCK, Terminal (Green/Yellow)	1
08	R90745D2	· END COVER, Double Level	1
09	R82705D1	· PLATE, Spacer	1
10	R82712D1	· CLAMP, End	2
11	0856M05012	· SCREW, Pan Head	2
12	18Z3087D1	· WASHER, Conical Lock	2
13	R91025D1	· DECALS, Compressor J-Box	1

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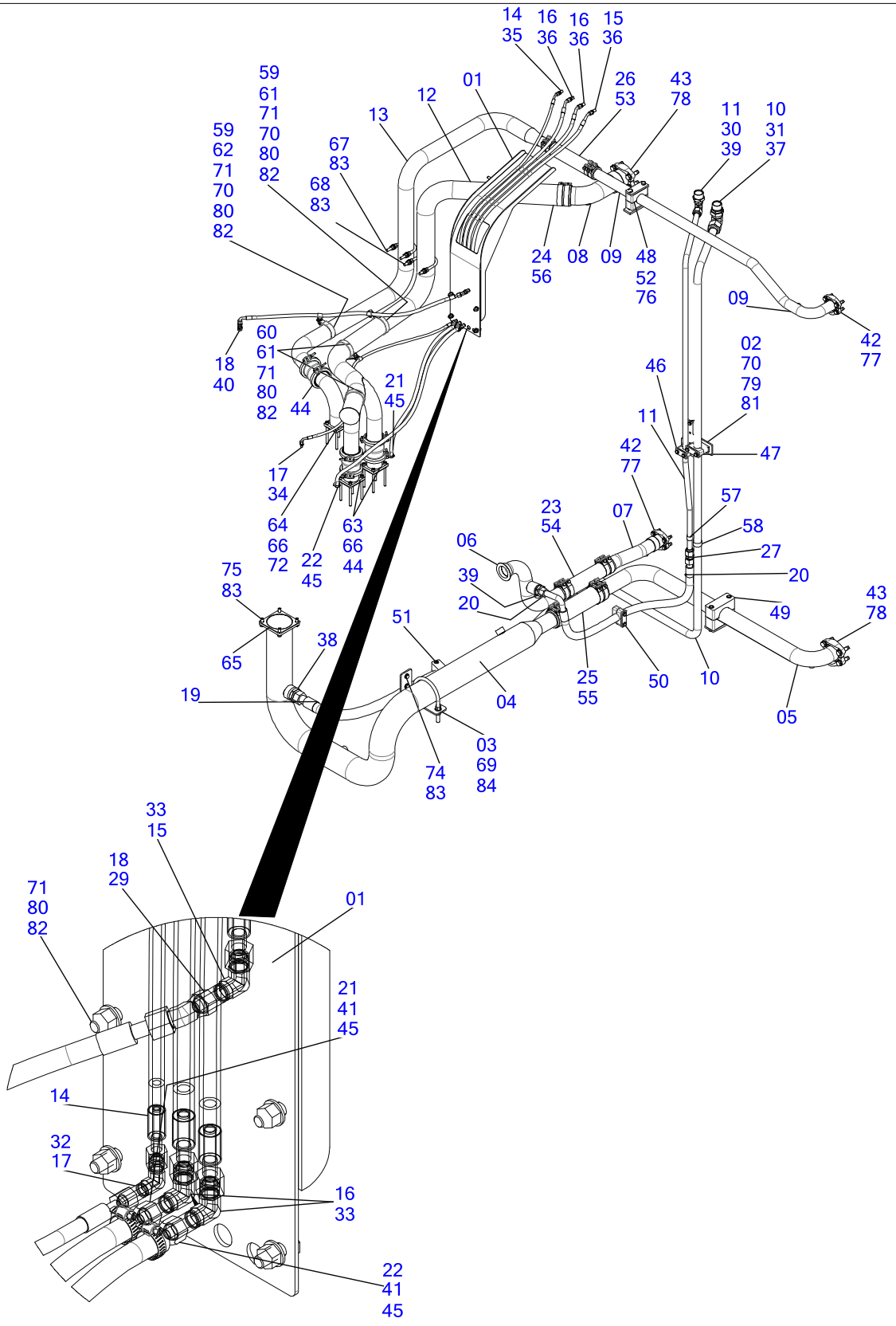
FUEL INSTALLATION, COLD WEATHER, QST30 TIER 4

Item	Part No.	Description	Qty.	Unit
	R111964F1	FUEL INSTALLATION, COLD WEATHER, QST30 T4		
01		▪ HOSE, Fuel	1	
	441065093	▪ ▪ HOSE, 3/8in ID	7	Foot
02	R89366D24	▪ HOSE ASSEMBLY	1	
03	R89366D25	▪ HOSE ASSEMBLY	1	
04	R89366D45	▪ HOSE ASSEMBLY	1	
05	R89366D80	▪ HOSE ASSEMBLY	1	
06	R89366D103	▪ HOSE ASSEMBLY	1	
07	R89366D135	▪ HOSE ASSEMBLY	1	
08	R91786D33	▪ HOSE ASSEMBLY	1	
09	R108391D23	▪ HOSE ASSEMBLY	1	
10	R105229D1	▪ TUBE ASSEMBLY, Fuel	1	
11	R108179D1	▪ TUBE ASSEMBLY, Fuel	1	
12	R86692D1	▪ VALVE, 3-Way - Thermostatic Bypass	1	
13	R88880D3	▪ BASE, Clamp	1	
14	R99486D1	▪ BRACKET, Fuel Tube Support	1	
15	R108180D1	▪ BRACKET, Fuel Tube Support	1	
16	2401V015	▪ BUSHING, Pipe	1	
17	2446V005	▪ PLUG, Pipe	1	
18	44Q44D28	▪ UNION	1	
19	44Z473D10	▪ ELBOW, 90 Degree Swivel	2	
20	44Z487D10	▪ TEE, Swivel	2	
21	44Z485D50	▪ FITTING, O-Ring Connector	1	
22	44Z485D17	▪ FITTING, O-Ring Connector	4	
23	44Z590D25	▪ CONNECTOR, Male	2	
24	44Z590D20	▪ CONNECTOR, Male	2	
25	44Z491D10	▪ TEE, Union	1	
26	44Z1417D18	▪ REDUCER, Female/Male	1	
27	44Z1181D5	▪ ADAPTOR	1	
28	R74921D3	▪ FITTING, 90 Degree Hose Elbow, Barbed	2	
29	R99605D4	▪ FITTING, Barbed Hose, Brass	1	
30	R108122D17	▪ ADAPTER	1	
31	32Z423D6	▪ CLAMP, Insulated	4	
32	R78953D26	▪ CLAMP	6	
33	32Z423D26	▪ CLAMP, Insulated	2	
34	R88404D26	▪ CLAMP	1	
35	R85405D11	▪ CLAMP	2	
36	R88707D2	▪ PLATE, Clamp	2	
37	R96354D1	▪ CLAMP, Worm-Drive Hose	6	
38	0825M10025	▪ BOLT, Hex Hd	2	

FUEL INSTALLATION, COLD WEATHER, QST30 TIER 4

Item	Part No.	Description	Qty.	Unit
39	0825M10065	▪ BOLT, Hex Hd	4	
40	0825M12020	▪ BOLT, Hex Hd	8	
41	0825M12035	▪ BOLT, Hex Hd	2	
42	2104M010	▪ NUT, Hex	2	
43	2104M012	▪ NUT, Hex	2	
44	3648M010	▪ WASHER, Hardened	4	
45	3648M012	▪ WASHER, Hardened	12	

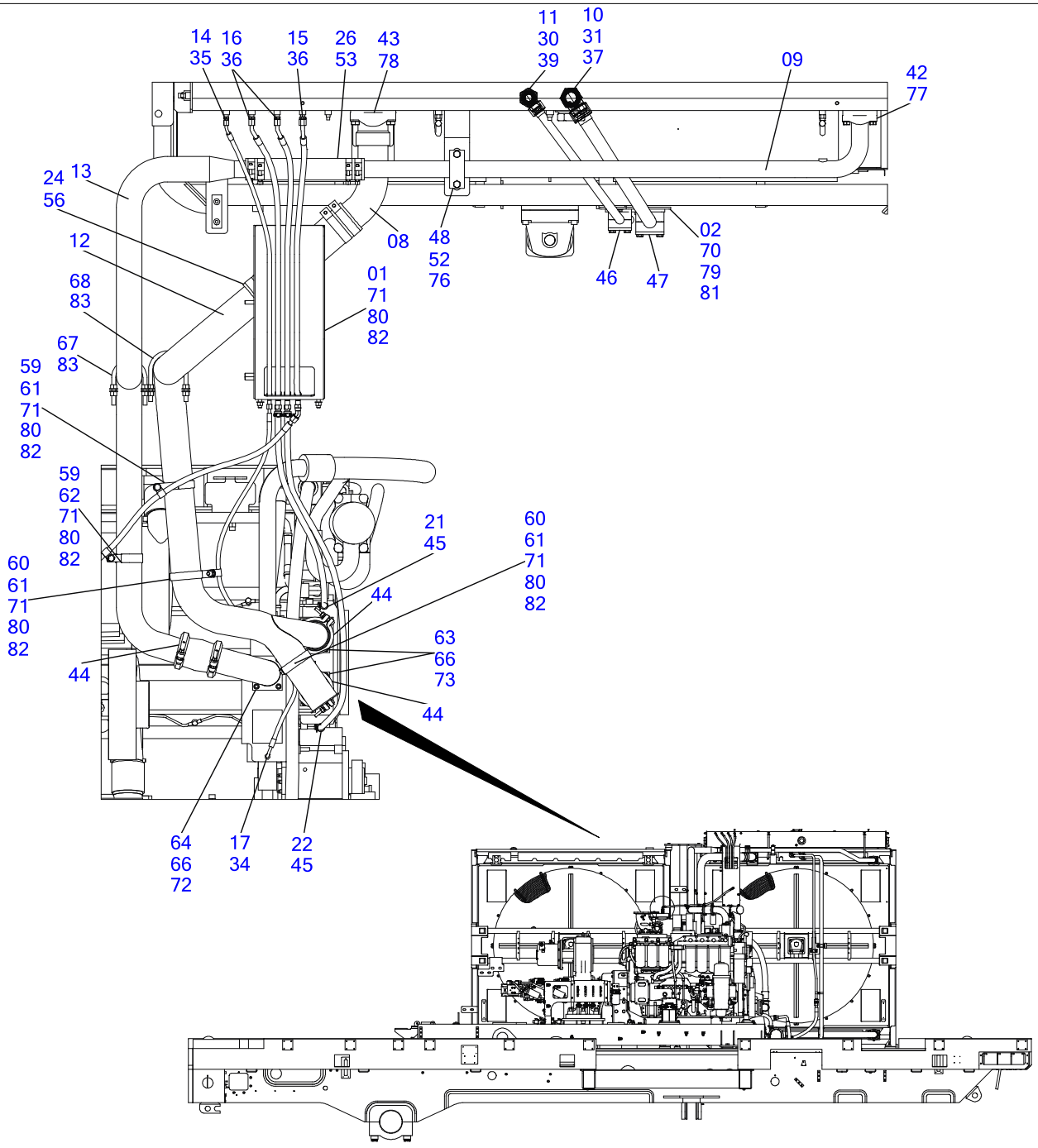
INSTALLATION, ENGINE COOLING ROUTINGS



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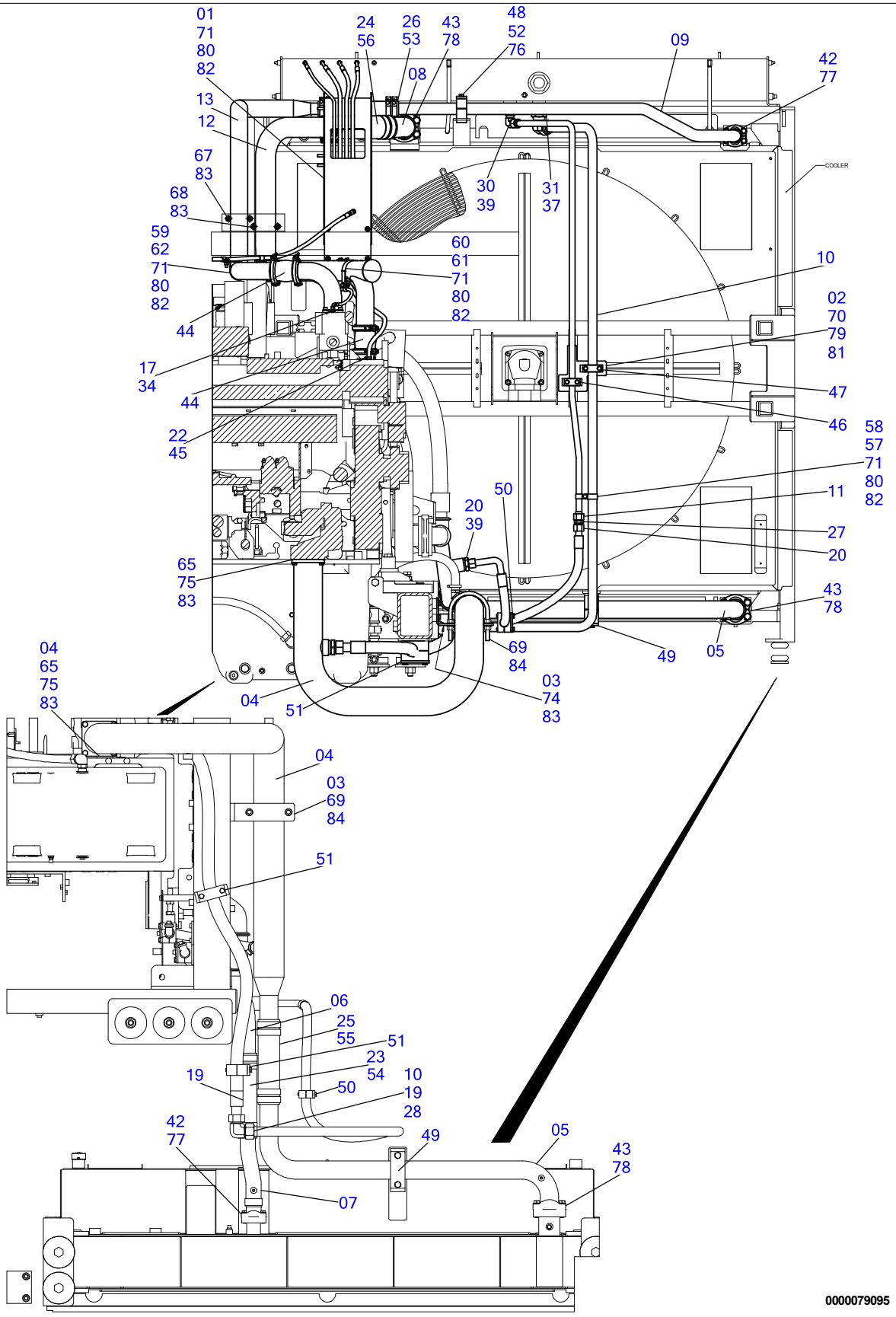
INSTALLATION, ENGINE COOLING ROUTINGS

INSTALLATION, ENGINE COOLING ROUTINGS



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INSTALLATION, ENGINE COOLING ROUTINGS



INSTALLATION, ENGINE COOLING ROUTINGS

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INSTALLATION, ENGINE COOLING ROUTINGS

Item	Part No.	Description	Qty.
	R106205F2	INSTALLATION, ENGINE COOLING ROUTINGS	
01	R106611D1	▪ BRACKET, Engine Vent Line Support	1
02	R106995D1	▪ BRACKET, Hose Clamp	1
03	R106992D5	▪ BRACKET, Hose Clamp	1
04	R105658D1	▪ TUBE, HTC Inlet	1
05	R105659D1	▪ TUBE, HTC Inlet	1
06	R105660D1	▪ TUBE, HTC Inlet	1
07	R105661D1	▪ TUBE, LTC Inlet	1
08	R105663D1	▪ TUBE, HTC Inlet	1
09	R105665D1	▪ TUBE, LTC Inlet	1
10	R106609D1	▪ TUBE ASSEMBLY, Coolant, HTC	1
11	R106610D1	▪ TUBE ASSEMBLY, Coolant, HTC	1
12	R109466D1	▪ TUBE, HTC Outlet	1
13	R109468D1	▪ TUBE, LTC Outlet	1
14	R81813T04D56	▪ HOSE ASSEMBLY	1
15	R81813T06D47	▪ HOSE ASSEMBLY	1
16	R81813T06D56	▪ HOSE ASSEMBLY	2
17	R81814T04D49	▪ HOSE ASSEMBLY	1
18	R81814T06D48	▪ HOSE ASSEMBLY	1
19	R81844T24D75	▪ HOSE ASSEMBLY	1
20	R81847T16D51	▪ HOSE ASSEMBLY	1
21	R36762D32	▪ HOSE, Radiator	1
22	R36762D46	▪ HOSE, Radiator	1
23	R78788D14	▪ HOSE, Radiator	1
24	R86844D15	▪ HOSE	1
25	R104681D14	▪ HOSE, Radiator	1
26	R104721D14	▪ HOSE, Radiator	1
27	44Q44D28	▪ UNION	1
28	44Q47D28	▪ MALE ELBOW	1
29	44Z472D5	▪ SWIVEL W/NUT	1
30	44Z473D10	▪ ELBOW, 90 Degree Swivel	1
31	44Z473D12	▪ ELBOW, 90 Degree	1
32	44Z489D3	▪ ELBOW, 90 Degree Bulkhead	1
33	44Z489D5	▪ BULKHEAD UNION	3
34	44Z590D3	▪ CONNECTOR, Male	1
35	44Z590D4	▪ CONNECTOR, Male	1
36	44Z590D7	▪ CONNECTOR, Male	3
37	44Z590D23	▪ CONNECTOR, Male	1
38	44Z590D29	▪ CONNECTOR, Male	1
39	44Z590D35	▪ CONNECTOR, Male	2

INSTALLATION, ENGINE COOLING ROUTINGS

Item	Part No.	Description	Qty.
40	R72386D2	▪ ADAPTER	1
41	R104746D1	▪ HOSE END, Barbed	2
42	R87258D6	▪ KIT, Split Flange	2
43	R87258D8	▪ KIT, Split Flange	2
44	R106612D1	▪ FLEXMASTER JOINT	3
45	R65032D1	▪ CLAMP	4
46	R78952D11	▪ CLAMP, Tube	1
47	R78952D15	▪ CLAMP, Tube	1
48	R78952D20	▪ CLAMP, Tube	1
49	R78952D26	▪ CLAMP, Tube, W/O Weld Plates	1
50	R78953D27	▪ CLAMP, Hose	1
51	R78953D35	▪ CLAMP, 50.80 O.D. HOSE, W/O WELD PLATES	2
52	R88707D4	▪ PLATE, Clamp	1
53	R84807D17	▪ CLAMP, T-Bolt	4
54	R84807D19	▪ CLAMP, T-Bolt	4
55	R84807D22	▪ CLAMP, T-Bolt	4
56	R84807D23	▪ CLAMP, T-Bolt	4
57	32Z423D2	▪ CLAMP, Insulated	1
58	32Z423D4	▪ CLAMP, Insulated	1
59	32Z423D6	▪ CLAMP, Insulated	2
60	32Z423D10	▪ CLAMP, Insulated	2
61	32Z423D37	▪ CLAMP, Insulated	3
62	32Z423D43	▪ CLAMP, Insulated	1
63	R106607D1	▪ BRACKET, Hose Mounting	2
64	R109467D1	▪ BRACKET, Hose Mounting - 90 Deg	1
65	R104729D1	▪ GASKET, Engine Coolant Inlet	1
66	R104729D2	▪ GASKET, Engine Coolant Inlet	3
67	R87756D6	▪ U-BOLT	1
68	R87756D7	▪ U-BOLT	1
69	R87756D9	▪ U-BOLT	1
70	0825M08030	▪ BOLT, Hex Hd	2
71	0825M10030	▪ BOLT, Hex Hd	9
72	0630M10120	▪ SCREW, Socket Head	4
73	0630M10130	▪ SCREW, Socket Head	8
74	0825M12025	▪ BOLT, Hex Hd	2
75	0825M12035	▪ BOLT, Hex Hd	4
76	0825M12110	▪ BOLT, Hex Hd	2
77	0825M12045	▪ BOLT, Hex Hd	8
78	0825M16060	▪ BOLT, Hex Hd	8
79	2104M008	▪ NUT, Hex	2

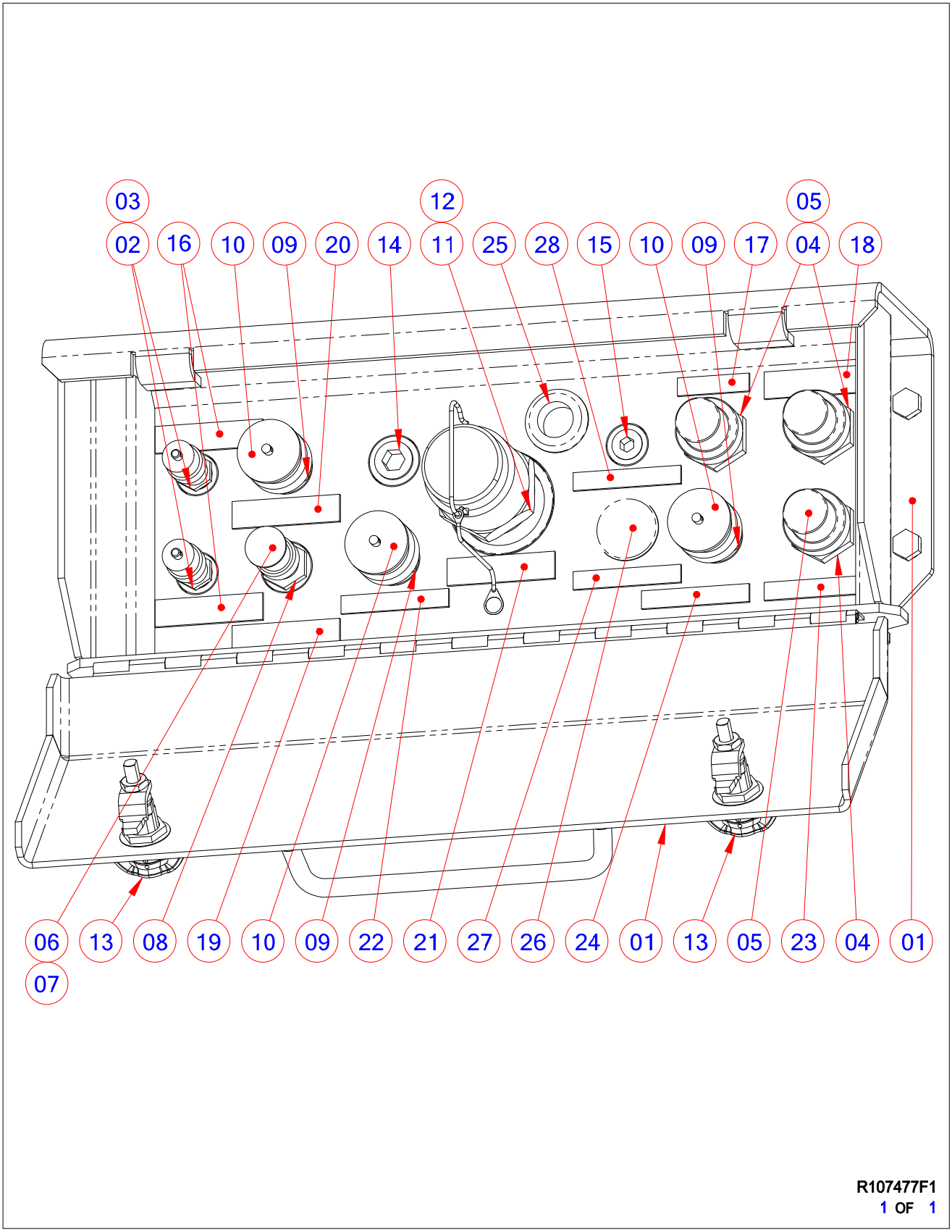
INSTALLATION, ENGINE COOLING ROUTINGS

Item	Part No.	Description	Qty.
80	2104M010	▪ NUT, Hex	9
81	3648M008	▪ WASHER, Hardened	4
82	3648M010	▪ WASHER, Hardened	18
83	3648M012	▪ WASHER, Hardened	14
84	3648M016	▪ WASHER, Hardened	4
85	21Z926	▪ COMPOUND, Locking (Not Shown)	1

QUICK FILL STATION (Not Illustrated)

Item	Part No.	Description	Qty.	Page
	R109469F1	QUICK FILL STATION		
01	R107478F1	・INSTALLATION, Quick Fill Station	1	
02	R107477F1	・・ASSEMBLY, Quick Fill Station	1	172
03	2104M012	・・NUT, Hex	4	
04	3648M012	・・WASHER, Hardened	4	
05	R107479F1	・INSTALLATION, Quick Fill Routing	1	174

ASSEMBLY, QUICK FILL STATION



ASSEMBLY, QUICK FILL STATION

ASSEMBLY, QUICK FILL STATION

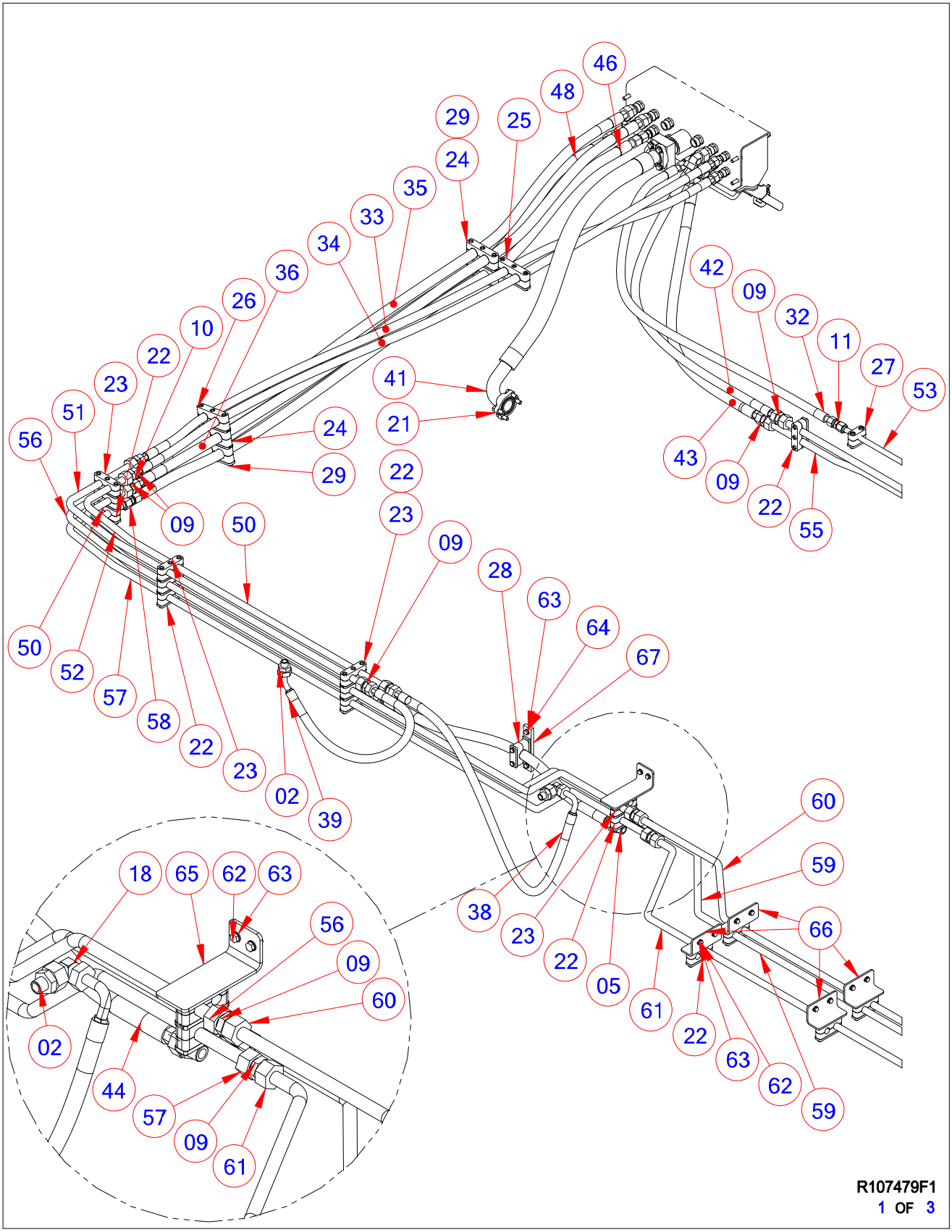
Item	Part No.	Description	Qty.	Page
	R107477F1	ASSEMBLY, QUICK FILL STATION		
01	R107476D1	· BOX, Quick Fill, Weldment	1	173
02	52Z169	· RECEIVER, Quick Disconnect Coolant	2	
03	52Z170	· CAP, Quick Disconnect Coolant	2	
04	27Z1041	· CONNECTION, Hydraulic Quick Connect	3	
05	27Z1040	· CAP, Quick Connect	3	
06	27Z1416	· RECEIVER, Transmission	1	
07	27Z1415	· CAP, Transmission Receiver	1	
08	2401V008	· BUSHING, Pipe	1	
09	27Z1042	· FITTING, Inlet	3	
10	27Z1043	· CAP, Inlet Fitting	3	
11	27Z535	· CONNECTOR	1	
12	27Z534	· CAP, Connector	1	
13	R80849D1	· LATCH, Wing Knob	2	
14	2422V005	· PLUG, Pipe	1	
15	2422V004	· PLUG, Pipe	1	
16	32P451D137	· NAMEPLATE	2	
17	32P451D124	· NAMEPLATE	1	
18	32P451D139	· NAMEPLATE	1	
19	32P451D140	· NAMEPLATE	1	
20	32P451D141	· NAMEPLATE	1	
21	32P451D142	· NAMEPLATE	1	
22	R99525D1	· NAMEPLATE, Torque Converter	1	
23	R103497D1	· NAMEPLATE, Hydraulic Tank Oil Drain	1	
24	R103497D2	· NAMEPLATE, Open Gear Lube	1	
25	R98812D76	· GROMMET, Push-In, Rubber	1	
26	R107913D1	· PLUG	1	
27	R103497D3	· NAMEPLATE, DEF	1	
28	R103497D4	· NAMEPLATE, DTH Coolant	1	

BOX, QUICK FILL, WELDMENT (Not Illustrated)

Item	Part No.	Description	Qty.
	R107476D1	BOX, QUICK FILL, WELDMENT	
01	R90152D1	▪ HINGE, Door	1
02	44Z994D4	▪ COUPLING, Pipe	3
03	44Z994D5	▪ NPT COUPLING	8
04	2439V009	▪ COUPLING, Pipe	1
05	R92161D1	▪ HANDLE, Pull	1
06	0825M12035	▪ BOLT, Hex Hd	4

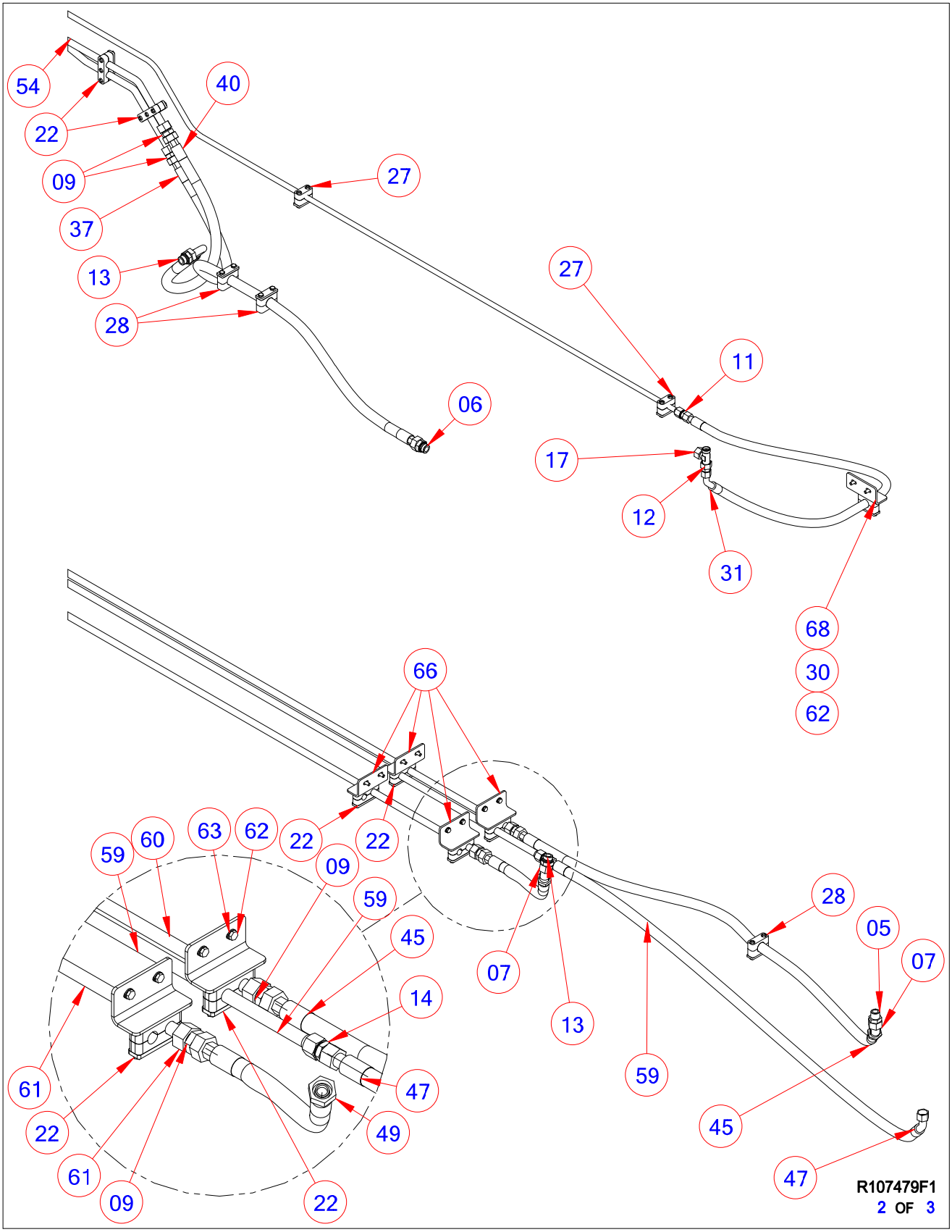
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INSTALLATION, QUICK FILL, ROUTINGS



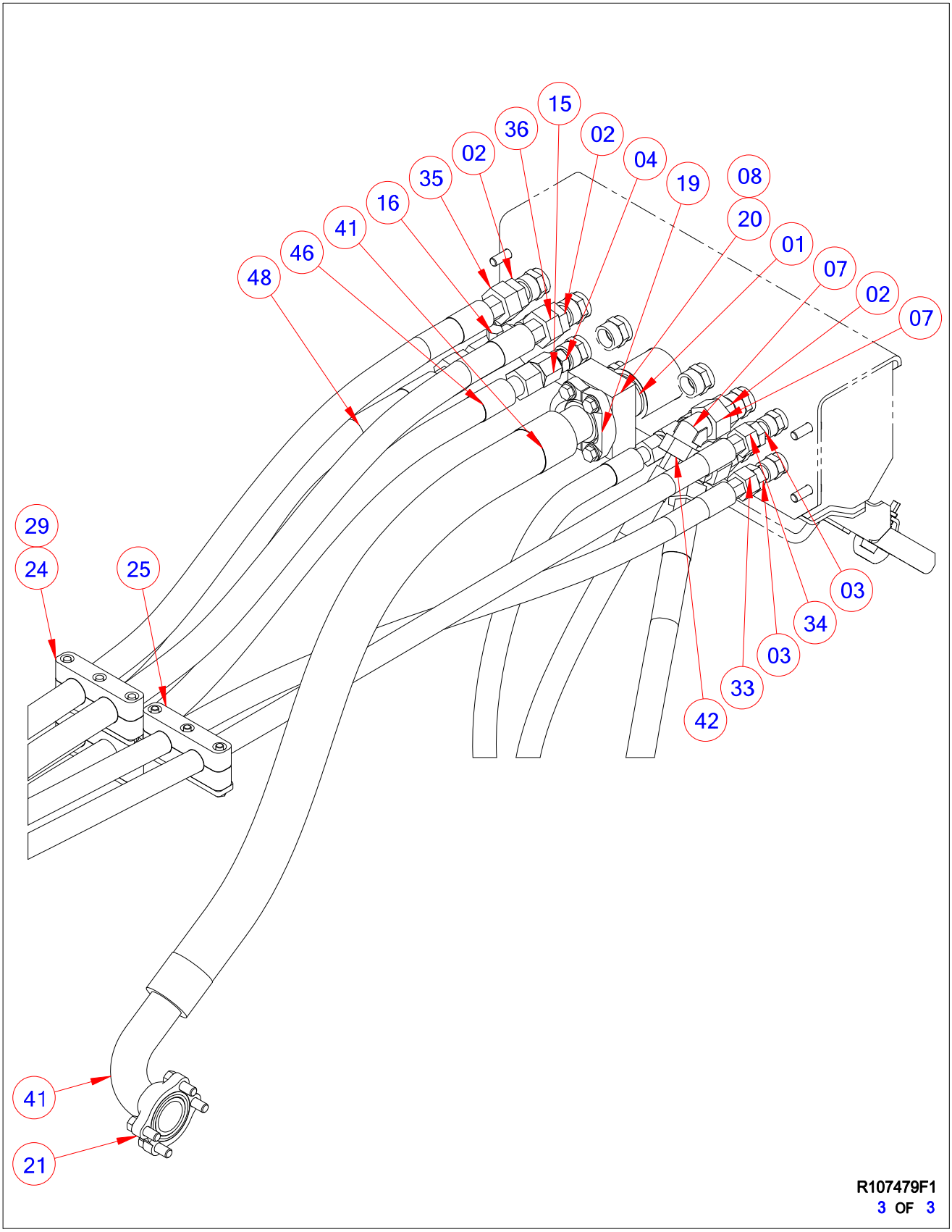
INSTALL,QUICK FILL,ROUTINGS

INSTALLATION, QUICK FILL, ROUTINGS



INSTALL,QUICK FILL,ROUTINGS

INSTALLATION, QUICK FILL, ROUTINGS



INSTALL,QUICK FILL,ROUTINGS

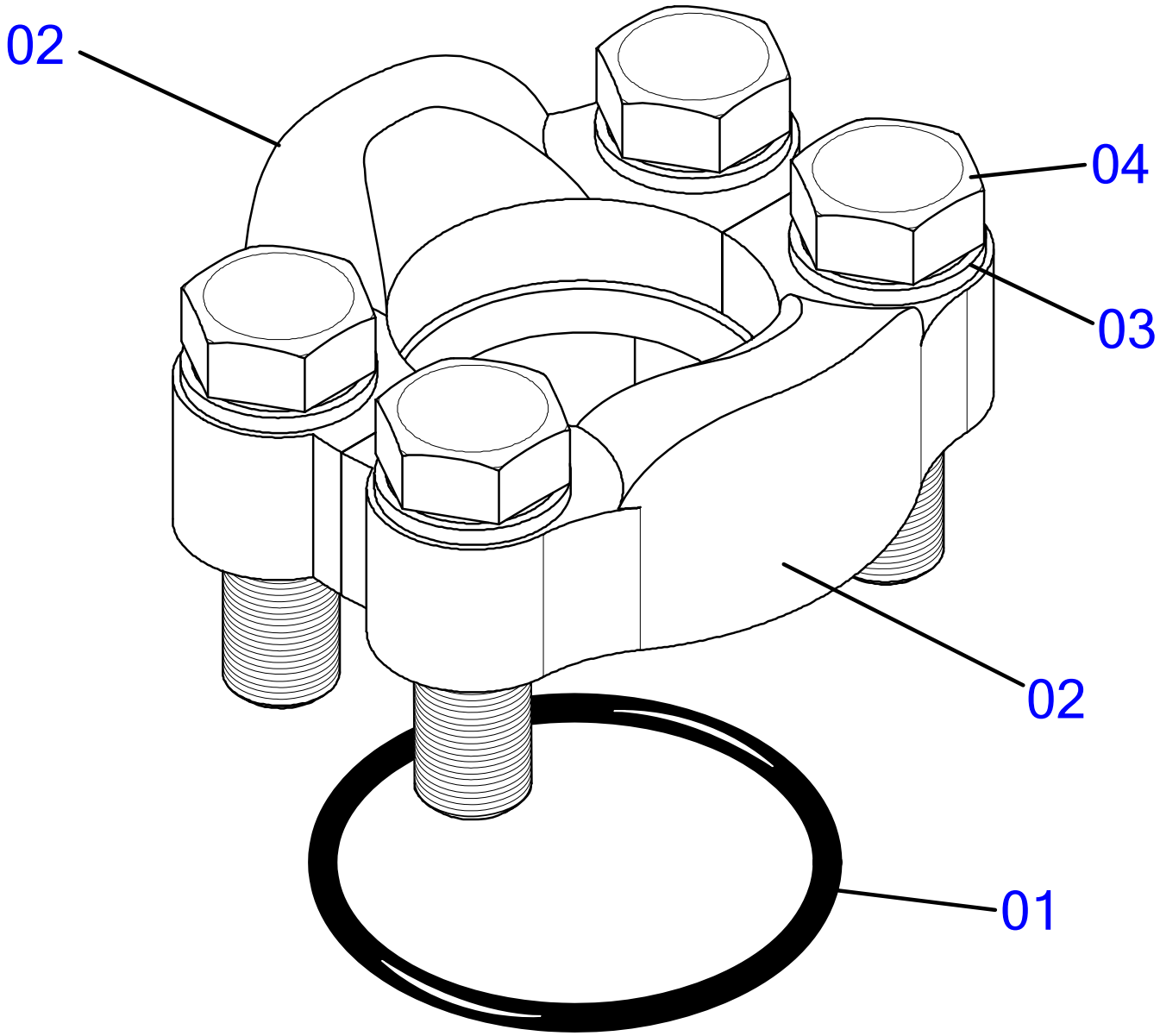
INSTALLATION, QUICK FILL, ROUTINGS

Item	Part No.	Description	Qty.	Page
	R107479F1	INSTALLATION, QUICK FILL, ROUTINGS		
01	2419V255	• NIPPLE, Close	1	
02	R89779D14	• CONNECTOR	7	
03	R89779D11	• CONNECTOR	2	
04	44Z558D5	• NIPPLE, Pipe	3	
05	R89779D15	• CONNECTOR	2	
06	R89792D18	• CONNECTOR	1	
07	R89794D5	• CONNECTOR	4	
08	44Z597D12	• CONNECTOR, Pipe	1	
09	R89770D5	• CONNECTOR, Union	14	
10	R89771D8	• CONNECTOR, Union	2	
11	44Q44D24	• UNION	2	
12	R103348D1	• ADAPTER, Swivel	1	
13	R89778D12	• CONNECTOR	2	
14	44Q44D28	• UNION	3	
15	44Z597D25	• CONNECTOR	1	
16	R103492D1	• VALVE, Check	1	
17	R89796D4	• CONNECTOR	1	
18	R89793D5	• CONNECTOR	1	
19	R87258D6	• KIT, Split Flange	1	
20	R88333D1	• FLANGE	1	
21	R60258F1	• FLANGE ASSEMBLY	1	175
22	R92795D6	• CLAMP	15	
23	R92810D6	• CLAMP	7	
24	R92810D10	• CLAMP, Heavy Twin	2	
25	R92795D8	• CLAMP, Heavy Twin	1	
26	R92810D8	• CLAMP, Heavy Twin	1	
27	R78952D9	• CLAMP	3	
28	R78953D27	• CLAMP	4	
29	R92795D10	• CLAMP, Heavy Twin	2	
30	R78953D24	• CLAMP	1	
31	R81845T12D82	• HOSE ASSEMBLY	1	
32	R81844T12D74	• HOSE ASSEMBLY	1	
33	R89783T12M30D270	• HOSE ASSEMBLY	1	
34	R89783T12M30D278	• HOSE ASSEMBLY	1	
35	R89783T16M36D270	• HOSE ASSEMBLY	1	
36	R89783T16M36D279	• HOSE ASSEMBLY	1	
37	R89783T16M36D309	• HOSE ASSEMBLY	1	
38	R89785T12M36D198	• HOSE ASSEMBLY	1	
39	R89784T12M36D110	• HOSE ASSEMBLY	1	

INSTALLATION, QUICK FILL, ROUTINGS

Item	Part No.	Description	Qty.	Page
40	R89785T16M36D192	• HOSE ASSEMBLY	1	
41	R88342D50	• HOSE ASSEMBLY	1	
42	R89783T12M36D165	• HOSE ASSEMBLY	1	
43	R89783T16M36D144	• HOSE ASSEMBLY	1	
44	R89783T16M36D115	• HOSE ASSEMBLY	1	
45	R89783T16M36D222	• HOSE ASSEMBLY	1	
46	R81844T16D108	• HOSE ASSEMBLY	1	
47	R81845T16D98	• HOSE ASSEMBLY	1	
48	R89783T16M36D260	• HOSE ASSEMBLY	1	
49	R89783T16M36D58	• HOSE ASSEMBLY	1	
50	R99750D1	• TUBE ASSEMBLY	1	
51	R99751D1	• TUBE ASSEMBLY	1	
52	R99752D1	• TUBE ASSEMBLY	1	
53	R99726D1	• TUBE ASSEMBLY	1	
54	R99753D1	• TUBE ASSEMBLY	1	
55	R99754D1	• TUBE ASSEMBLY	1	
56	R103543D1	• TUBE ASSEMBLY	1	
57	R103544D1	• TUBE ASSEMBLY	1	
58	R103483D1	• TUBE ASSEMBLY	1	
59	R103484D1	• TUBE ASSEMBLY	1	
60	R103545D1	• TUBE ASSEMBLY	1	
61	R103546D1	• TUBE ASSEMBLY	1	
62	0825M10025	• BOLT, Hex Hd	20	
63	3612M010	• WASHER, Plain	22	
64	0825M10030	• BOLT, Hex Hd	2	
65	R103292D1	• BRACKET, Clamp	1	
66	R103461D1	• BRACKET, Clamp	8	
67	R88878D3	• BASE, Clamp	1	
68	R103493D1	• BRACKET, Clamp	1	

FLANGE ASSEMBLY



F8103

FLANGE ASSEMBLY

Item	Part No.	Description	Qty.
	R60258F1	FLANGE ASSEMBLY	
01	45Z479D24	▪ O-RING	1
02	44Q26D6	▪ FLANGE	2
03	18Z3087D5	▪ WASHER, Lock	4
04	20Q260D328	▪ SCREW, Hex Head Cap	4

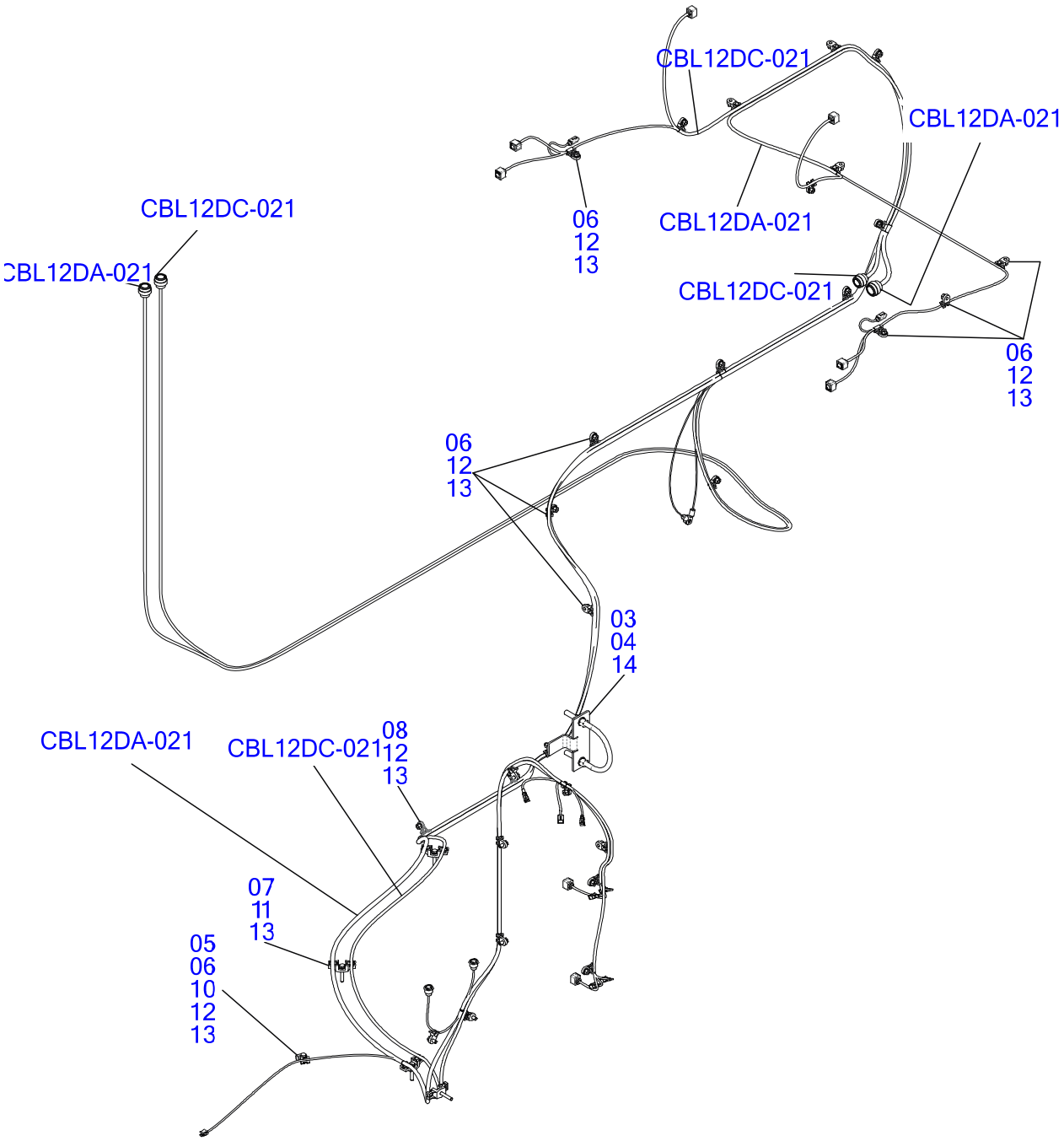
INSTALLATION, DEF TANK AND HOSE ROUTINGS

Item	Part No.	Description	Qty.	Page
	R105789F1	INSTALLATION, DEF TANK AND HOSE ROUTINGS		
01	R107914F1	▪ WIRING HARNESS INSTALLATION, Aftertreatment	1	177
02	R105409D1	▪ STAND, Def Tank	1	
03	R108507F1	▪ ASSEMBLY, 60 Gallon Def Tank	1	178
04	R108857D1	▪ BRACKET, Hose Support	1	
05	R108884D1	▪ BRACKET, Coolant Valves	1	
06	R106086D1	▪ BRACKET, Clamp	1	
07	R105781D109	▪ HOSE, Heated Def	1	
08	R105781D167	▪ HOSE, Heated Def	1	
09	R105783D678	▪ HOSE, Heated Def	1	
10	R105783D922	▪ HOSE, Heated Def	1	
11	R105784D653	▪ HOSE, Heated Def	1	
12	R105784D867	▪ HOSE, Heated Def	1	
13	R105654T06D104	▪ HOSE, Coolant - Silicone	1	
14	R105654T10D324	▪ HOSE, Coolant - Silicone	1	
15	R105654T12D912	▪ HOSE, Coolant - Silicone	1	
16	R105702D1	▪ VALVE, Solenoid - Coolant	2	
17	R106359D2	▪ TEE, Orb	1	
18	R106359D4	▪ TEE, Orb	5	
19	44Z787D4	▪ CONNECTOR, Reducing W/O-Ring	1	
20	44Z787D7	▪ 23B6O-RING REDUCE	2	
21	44Z787D9	▪ PLUG	6	
22	R73761D10	▪ ADAPTER	1	
23	R105913D1	▪ HOSE END	4	
24	R106629D1	▪ CONNECTOR, Straight	4	
25	R106629D3	▪ CONNECTOR, Straight	1	
26	R106629D4	▪ CONNECTOR, Straight	4	
27	R106629D5	▪ CONNECTOR, Straight	6	
28	R106630D3	▪ ELBOW	3	
29	R106630D4	▪ ELBOW	1	
30	R106630D5	▪ ELBOW	1	
31	R104958D7	▪ CLAMP	4	
32	32Z423D2	▪ CLAMP, Insulated	2	
33	32Z423D23	▪ CLAMP, Insulated	4	
34	32Z423D24	▪ CABLE HANGER	6	
35	32Z423D25	▪ CABLE HANGER	2	
36	32Z423D28	▪ CABLE HANGER	1	
37	32Z423D30	▪ CLAMP, Insulated	14	
38	32Z423D33	▪ CLAMP	8	
39	44Z12D16	▪ CLAMP, Hose	24	

INSTALLATION, DEF TANK AND HOSE ROUTINGS

Item	Part No.	Description	Qty.	Page
40	44Z12D18	▪ CLAMP, Hose	8	
41	0630M06012	▪ SCREW, Socket Head	8	
42	0825M10020	▪ BOLT, Hex Hd	11	
43	0825M10025	▪ BOLT, Hex Hd	9	
44	0825M08025	▪ BOLT, Hex Hd	4	
45	0825M12045	▪ BOLT, Hex Hd	8	
46	0825M16090	▪ BOLT, Hex Hd	8	
47	2104M010	▪ NUT, Hex	23	
48	2104M012	▪ NUT, Hex	8	
49	2104M016	▪ NUT, Hex	8	
50	3648M006	▪ WASHER, Hardened	8	
51	3648M008	▪ WASHER, Hardened	4	
52	3648M010	▪ WASHER, Hardened	44	
53	3648M012	▪ WASHER, Hardened	16	
54	3648M016	▪ WASHER, Hardened	16	

WIRING HARNESS INSTALLATION, AFTERTREATMENT

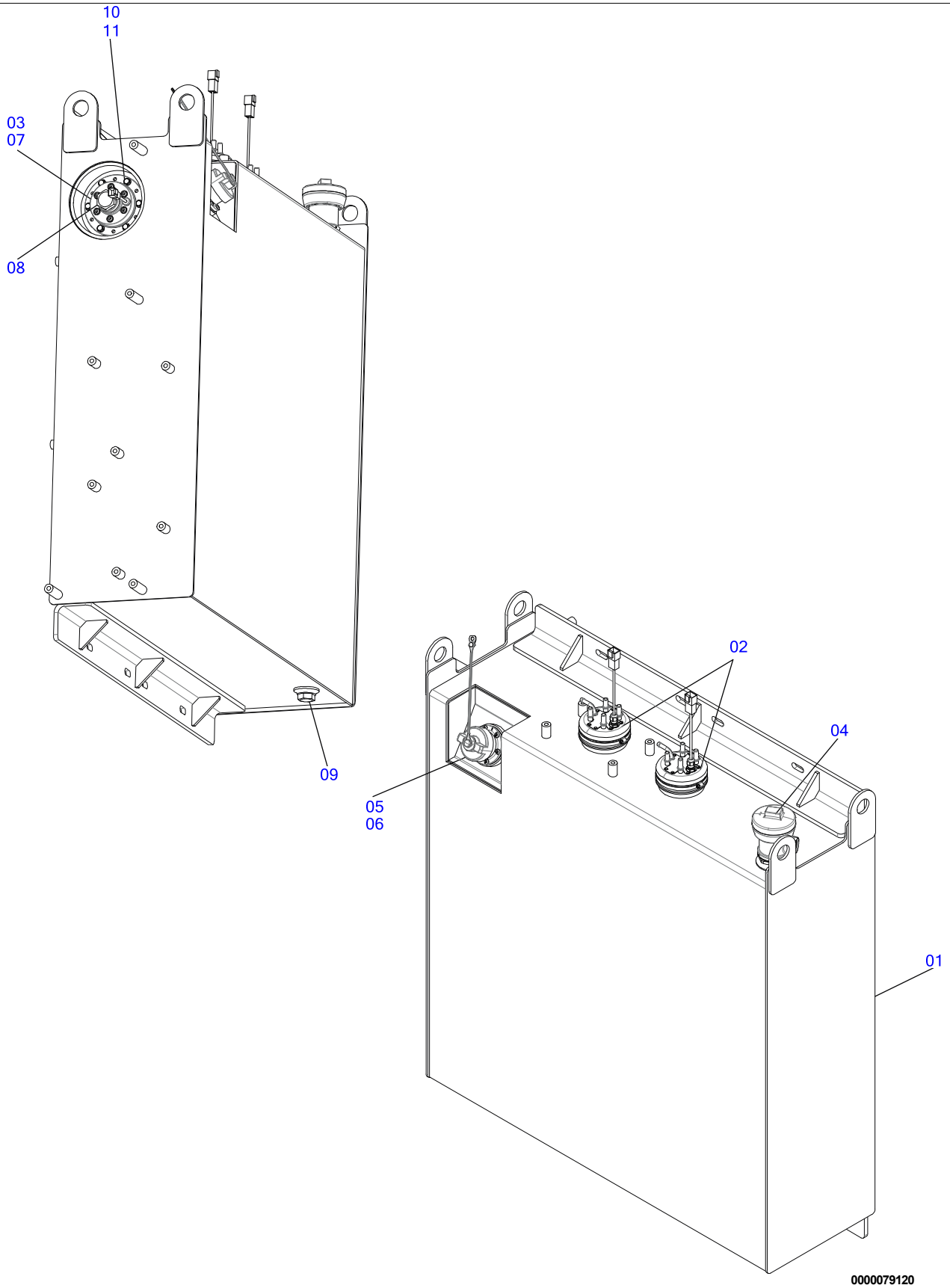


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WIRING HARNESS INSTALLATION, AFTERTREATMENT

Item	Part No.	Description	Qty.
	R107914F1	WIRING HARNESS INSTALLATION, AFTERTREATMENT	
CBL12DC-021	R107915F1	▪ HARNESS, Aftertreatment - 31 Pin	1
CBL12DA-021	R107917F1	▪ HARNESS, Aftertreatment - 47 Pin	1
03	R107918D1	▪ PLATE, U-Bolt Mount	1
04	R87756D9	▪ U-BOLT	1
05	32Z423D21	▪ CLAMP, Insulated	1
06	R88247D1	▪ MOUNT, Single	28
07	R88248D1	▪ MOUNT, Double	4
08	R90641D1	▪ CABLE MOUNT, Single Edge	2
09	0825M10025	▪ BOLT, Hex Hd (Not Shown)	5
10	0825M10030	▪ BOLT, Hex Hd	1
11	0825M10060	▪ BOLT, Hex Hd (Not Shown)	4
12	2104M010	▪ NUT, Hex	25
13	3648M010	▪ WASHER, Hardened	35
14	3648M016	▪ WASHER, Hardened	4
15	R88249D1	▪ TIE, Wire (Not Shown)	40
16	21Z926	▪ COMPOUND, Locking (Not Shown)	1

ASSEMBLY, 60 GALLON DEF TANK



ASSEMBLY, 60 GALLON DEF TANK

ASSEMBLY, 60 GALLON DEF TANK

Item	Part No.	Description	Qty.
	R108507F1	ASSEMBLY, 60 GALLON DEF TANK	
01	R108507D1	▪ WELDMENT, 60 Gallon DEF Tank	1
02	R107428D1	▪ ASSEMBLY, DEF Suction	2
	R107899D1	▪ ▪ FILTER	1
03	R107906D1	▪ VALVE, Automatic Shut-Off	1
04	R107905D1	▪ VENT, DEF Tank	1
	R107900D1	▪ ▪ FILTER, DEF Vent	1
05	R107912D1	▪ ASSEMBLY, DEF Fill Adapter	1
06	R107911D1	▪ CAP, Non-Locking DEF Tank	1
07	R108704D1	▪ O-RING	1
08	R108705D10	▪ PLUG	1
09	R108705D8	▪ PLUG	1
10	20Q260D191	▪ SCREW, Hex Head Cap	6
11	18Z694D2	▪ WASHER, Hardened	6

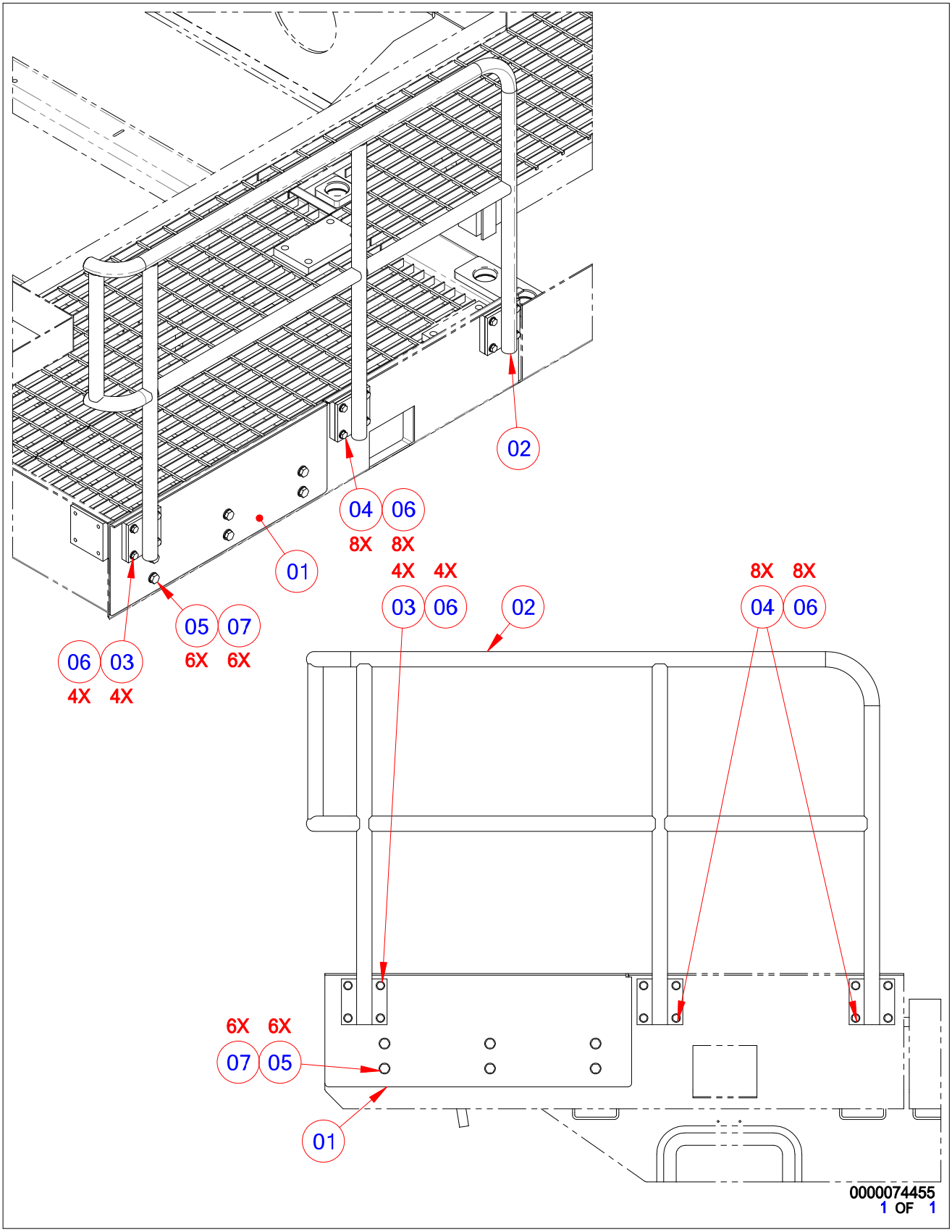
INSTALLATION, DEF TANK, QUICK FILL ROUTING

Item	Part No.	Description	Qty.
	R109480F1	INSTALLATION, DEF TANK, QUICK FILL ROUTING	
01	R107904D185	· HOSE ASSEMBLY	1
02	R107902D1	· RECEIVER	1
03	R107910D1	· SPACER, Aluminum	1
04	R107907D15	· ELBOW	1
05	R107909D34	· CONNECTOR	1
06	32Z423D39	· CLAMP, Insulated	10
07	0825M10020	· BOLT, Hex Hd	8
08	0825M10080	· BOLT, Hex Hd	1
09	2104M010	· NUT, Hex	1
10	3648M010	· WASHER, Hardened	10

INSTALLATION, CHASSIS DECK CRANE CABLE

Item	Part No.	Description	Qty.
	R111038F27	INSTALLATION, CHASSIS DECK CRANE CABLE	
01	R111038F270	・WIRE LIST, Chassis Deck Crane (Not Shown)	1
02	R111038F270Y1	・・WIRE, 1/0AWG, Black	
03	R118796F1	・・CONTROL CABLE, Deck Crane	
04	R118796F1Y1	・・・CABLE, 14 AWG, 2 Conductor	1
05	R118796F1Y2	・・・TUBING, Shrink, Black	1
06	R95763D1	・・・HOLDER, Fuse, Inline	1
07	R95762D1	・・・FUSE, Mini Blade, 15A	1
08	79Z1129D1	・・・TERMINAL, Insulated, Female	2
09	R88249D1	・CABLE TIES, Heavy Duty	50
10	R93951D26	・LUG	2
11	79U2522D47	・TERMINAL, Solderless	2

SKIRT INSTALLATION, MAST ACCESS PLATFORM

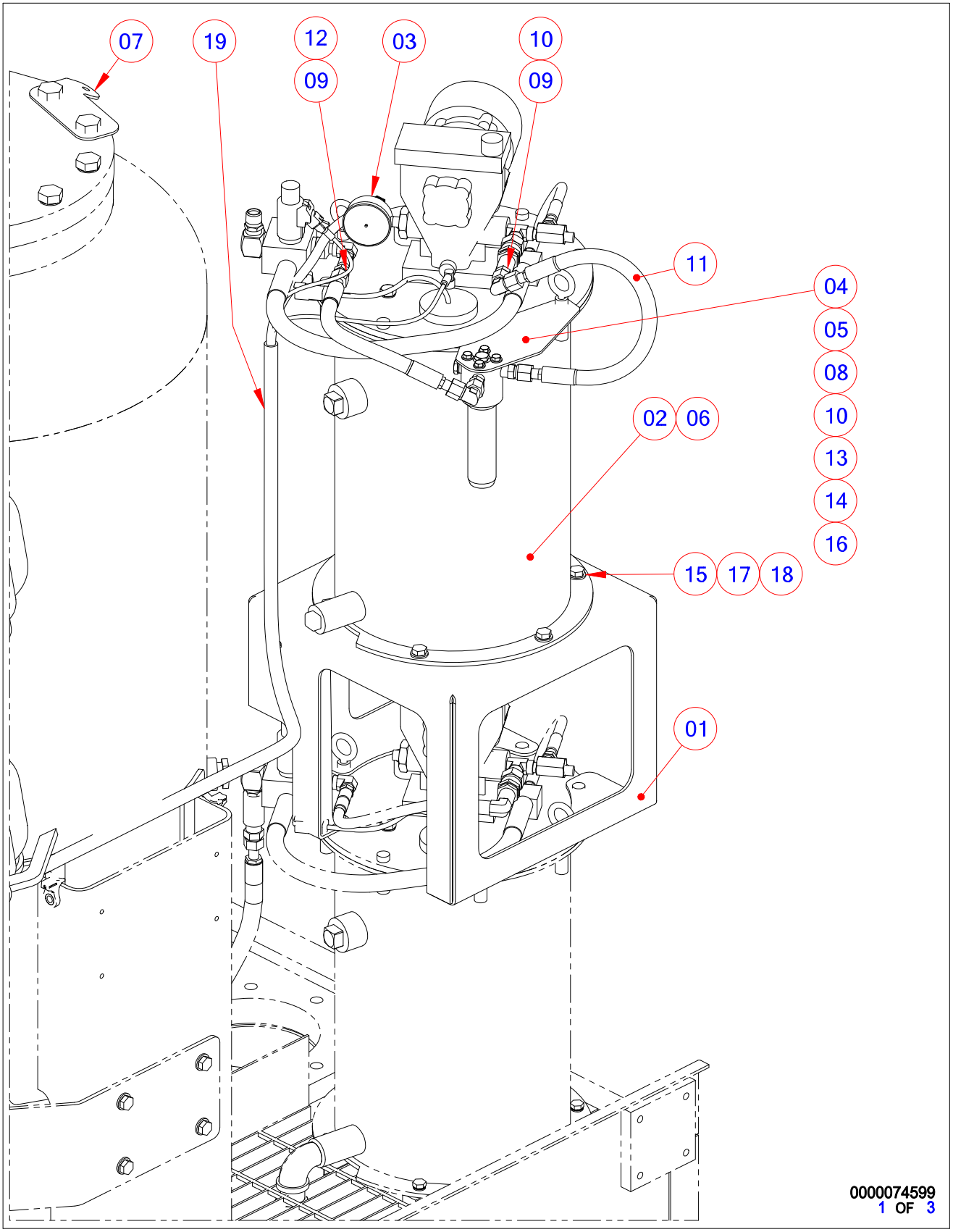


INSTALL, SKIRT, MAST ACCESS PLATFORM

SKIRT INSTALLATION, MAST ACCESS PLATFORM

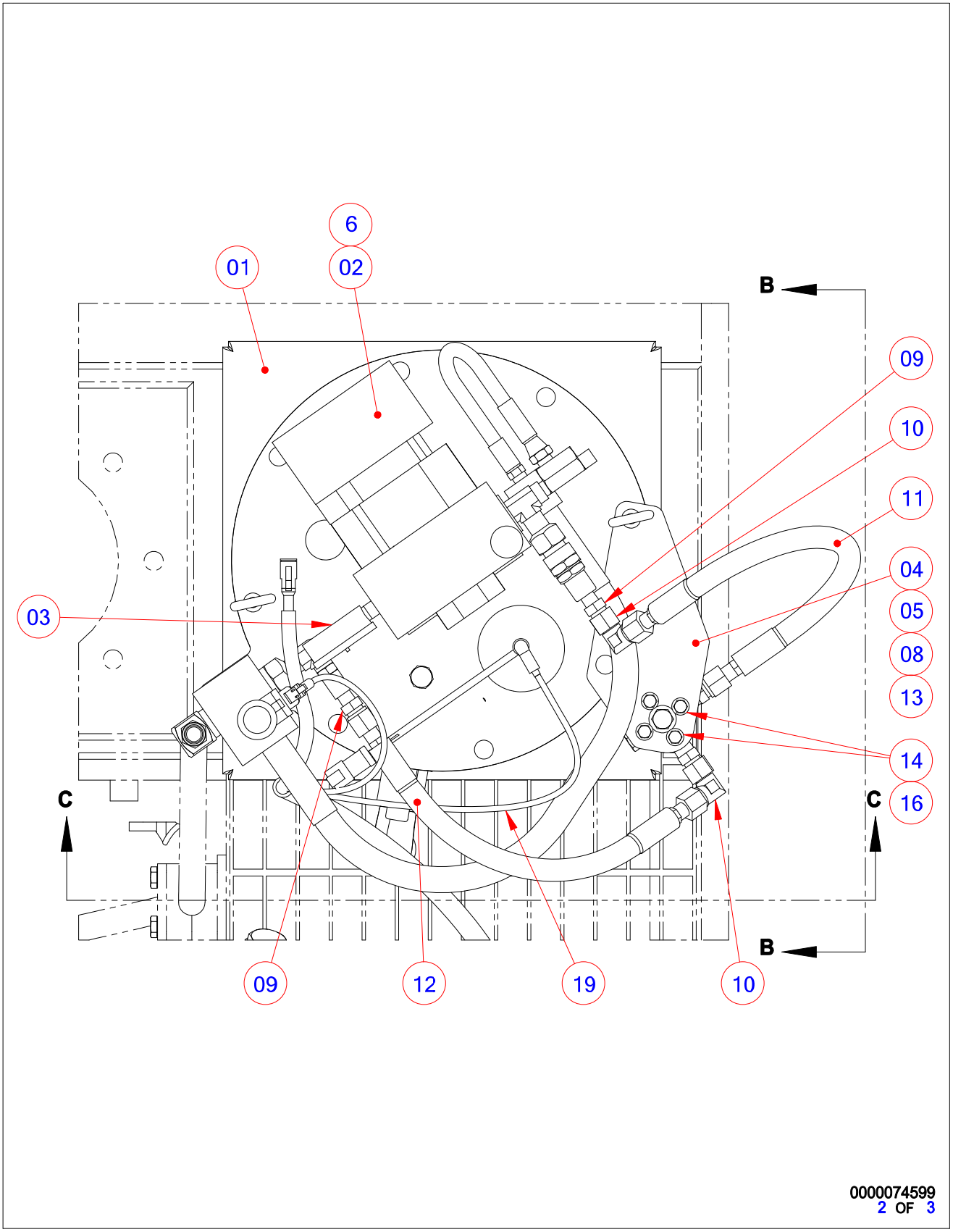
Item	Part No.	Description	Qty.
	R90142F1	SKIRT INSTALLATION, MAST ACCESS PLATFORM	
01	R90140D1	▪ SKIRT, Mast Access Platform	1
02	R90141D1	▪ HANDRAIL, Mast Access Skirt	1
03	0825M12025	▪ BOLT, Hex Hd	4
04	0825M12030	▪ BOLT, Hex Hd	8
05	0825M16035	▪ BOLT, Hex Hd	6
06	3612M012	▪ WASHER, Plain	12
07	3612M016	▪ WASHER, Plain	6

INSTALLATION, CHASSIS, AUTO LUBE SYSTEM



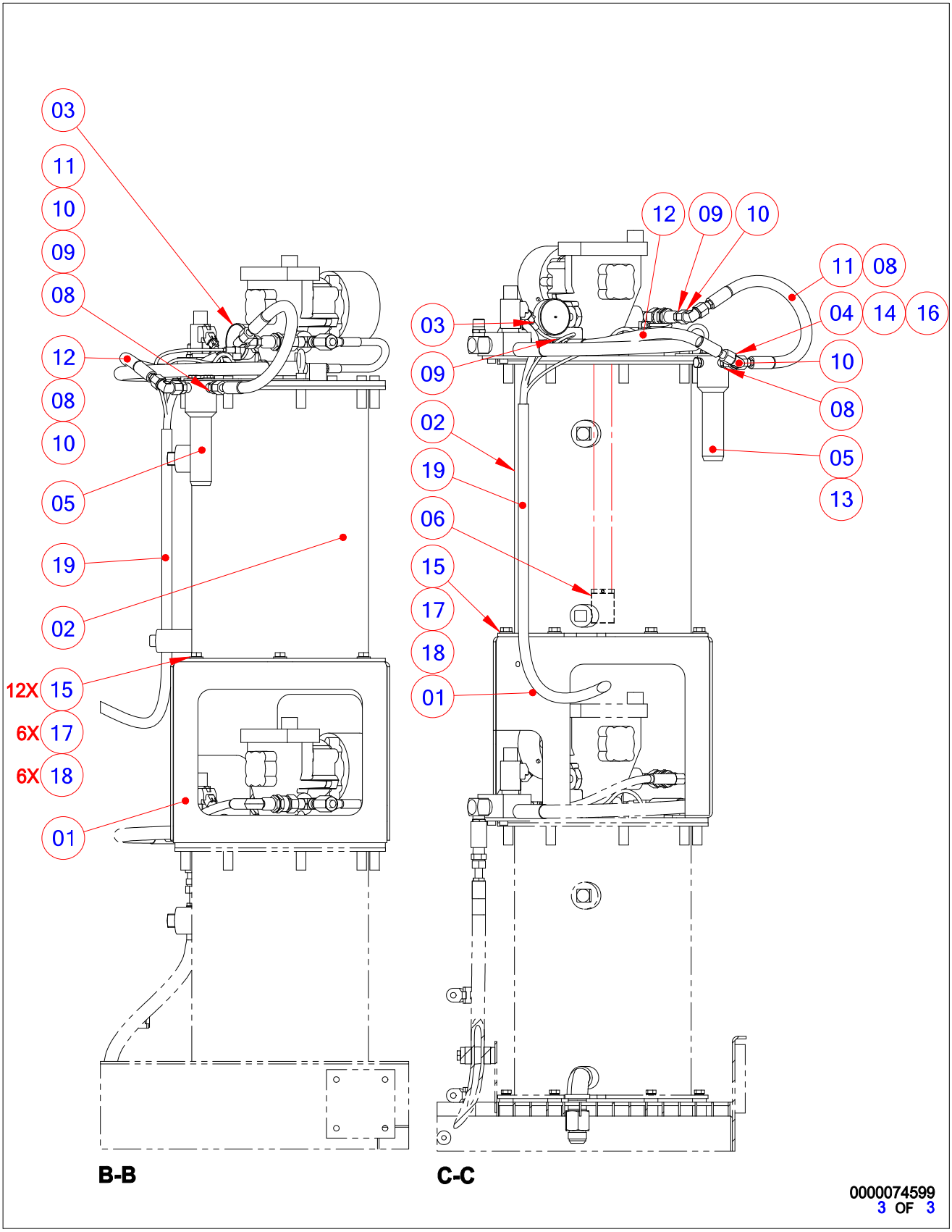
INSTALL,CHASSIS,AUTO LUBE SYSTEM

INSTALLATION, CHASSIS, AUTO LUBE SYSTEM



INSTALL,CHASSIS,AUTO LUBE SYSTEM

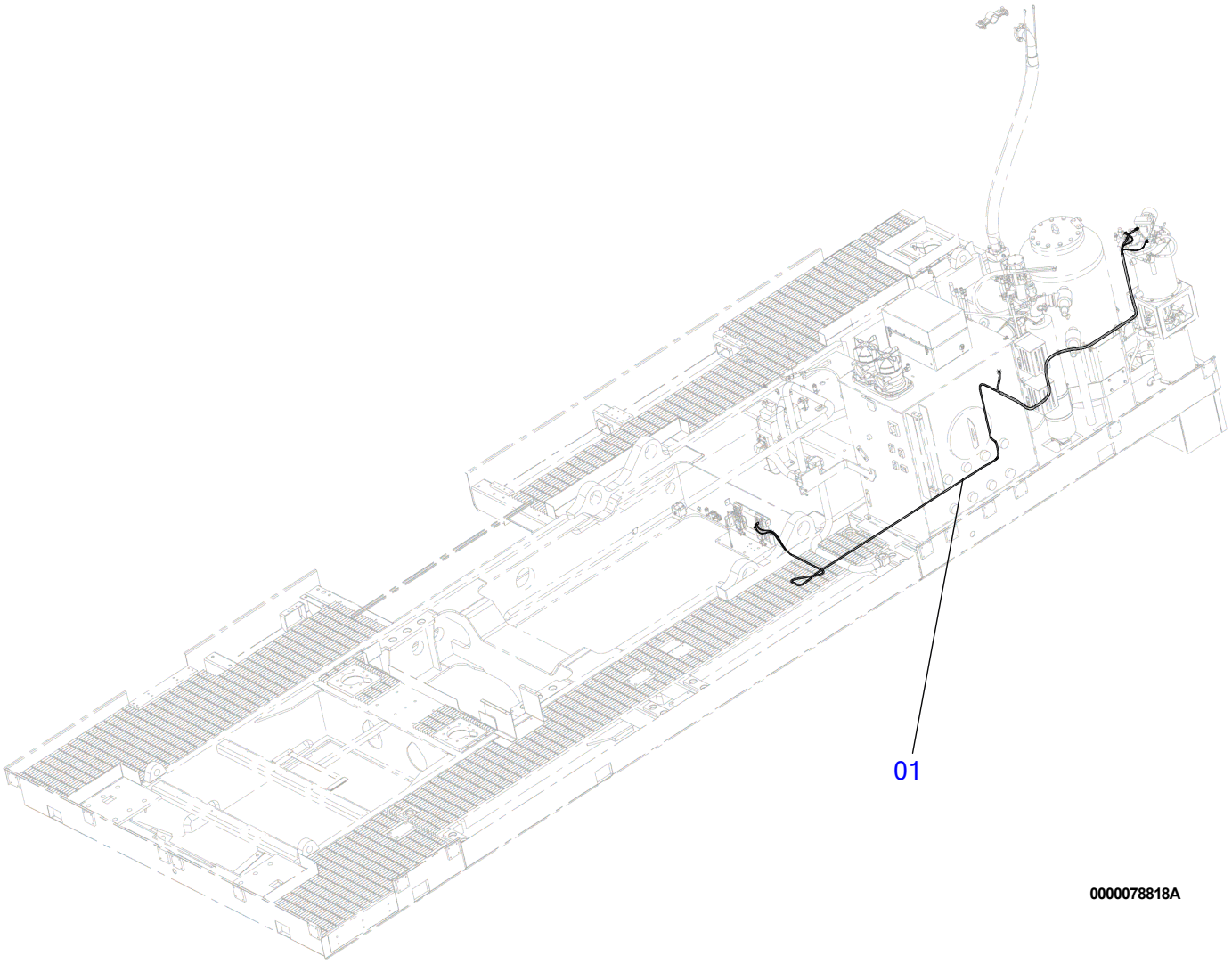
INSTALLATION, CHASSIS, AUTO LUBE SYSTEM



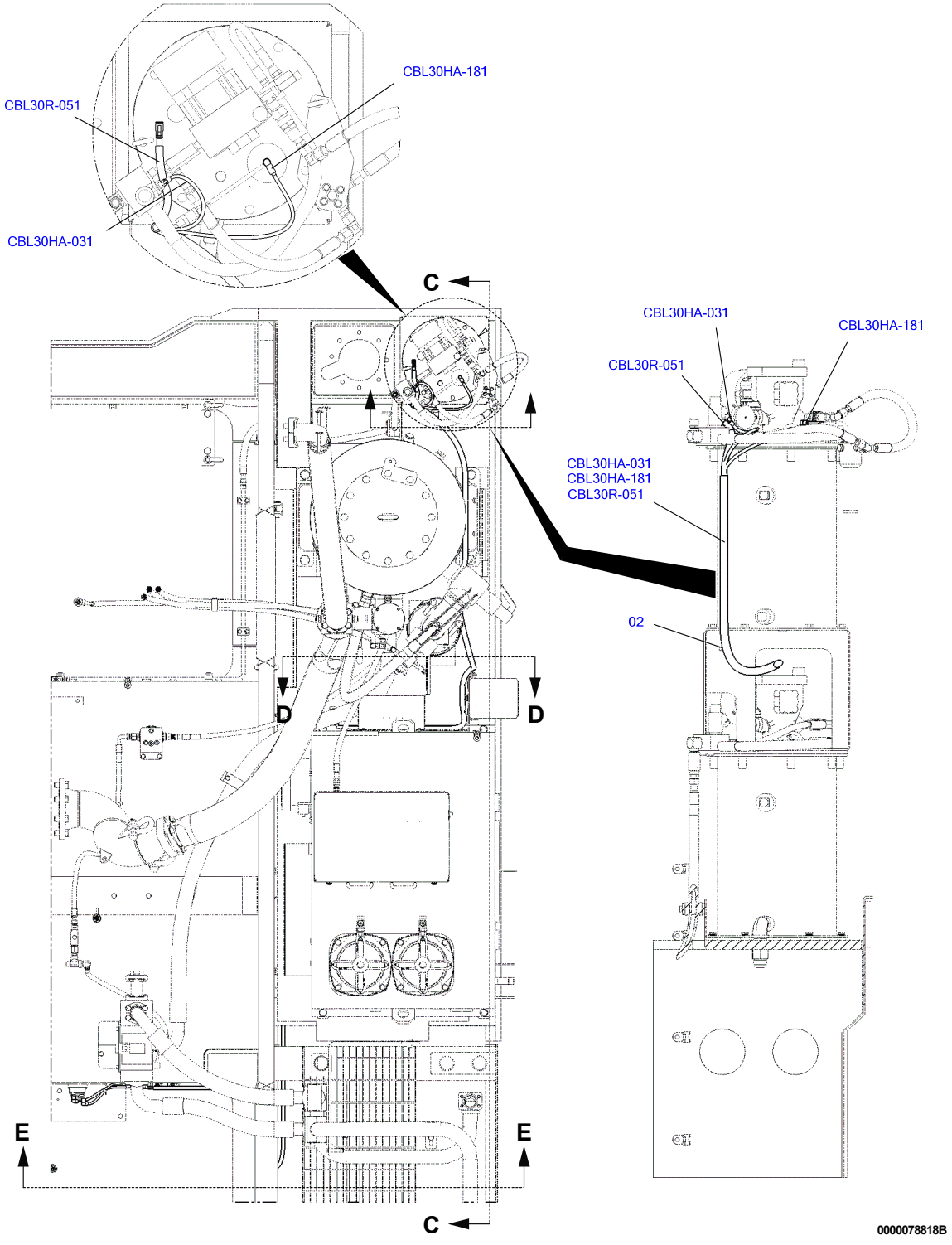
INSTALLATION, CHASSIS, AUTO LUBE SYSTEM

Item	Part No.	Description	Qty.	Page
	R106149F2	INSTALLATION, CHASSIS, AUTO LUBE SYSTEM		
01	R106567D1	▪ MOUNT, Pump/Tank	1	
02	R90982D1	▪ PUMP, Tank, OGL	1	
03	R106617D1	▪ GAUGE, Pressure, 0-5000 PSI	1	
04	R106626D1	▪ BRACKET, Filter	1	
05	R47385D1	▪ ASSEMBLY, Filter	1	
06	R57111D1	▪ FILTER, Grease Pump Inlet	1	
07	R106677D1	▪ MOUNT, P-Clamp, Main Air Receiver	1	
08	R89779D3	▪ CONNECTOR	2	
09	R89779D2	▪ CONNECTOR	2	
10	R89793D1	▪ ELBOW	2	
11	R89780T06M18D47	▪ HOSE ASSEMBLY	1	
12	R89780T06M18D38	▪ HOSE ASSEMBLY	1	
13	44Z1010D3	▪ PLUG, Pipe	2	
14	3631V005	▪ WASHER, Plain	4	
15	3612M012	▪ WASHER, Plain	12	
16	20Q260D191	▪ SCREW, Hex Head	4	
17	0825M12035	▪ BOLT, Hex Head	6	
18	2104M012	▪ NUT, Hex	6	
19	R89725F31	▪ CABLE INSTALLATION, Auto Lube, Chassis	1	183

CABLE INSTALLATION, AUTO LUBE, CHASSIS

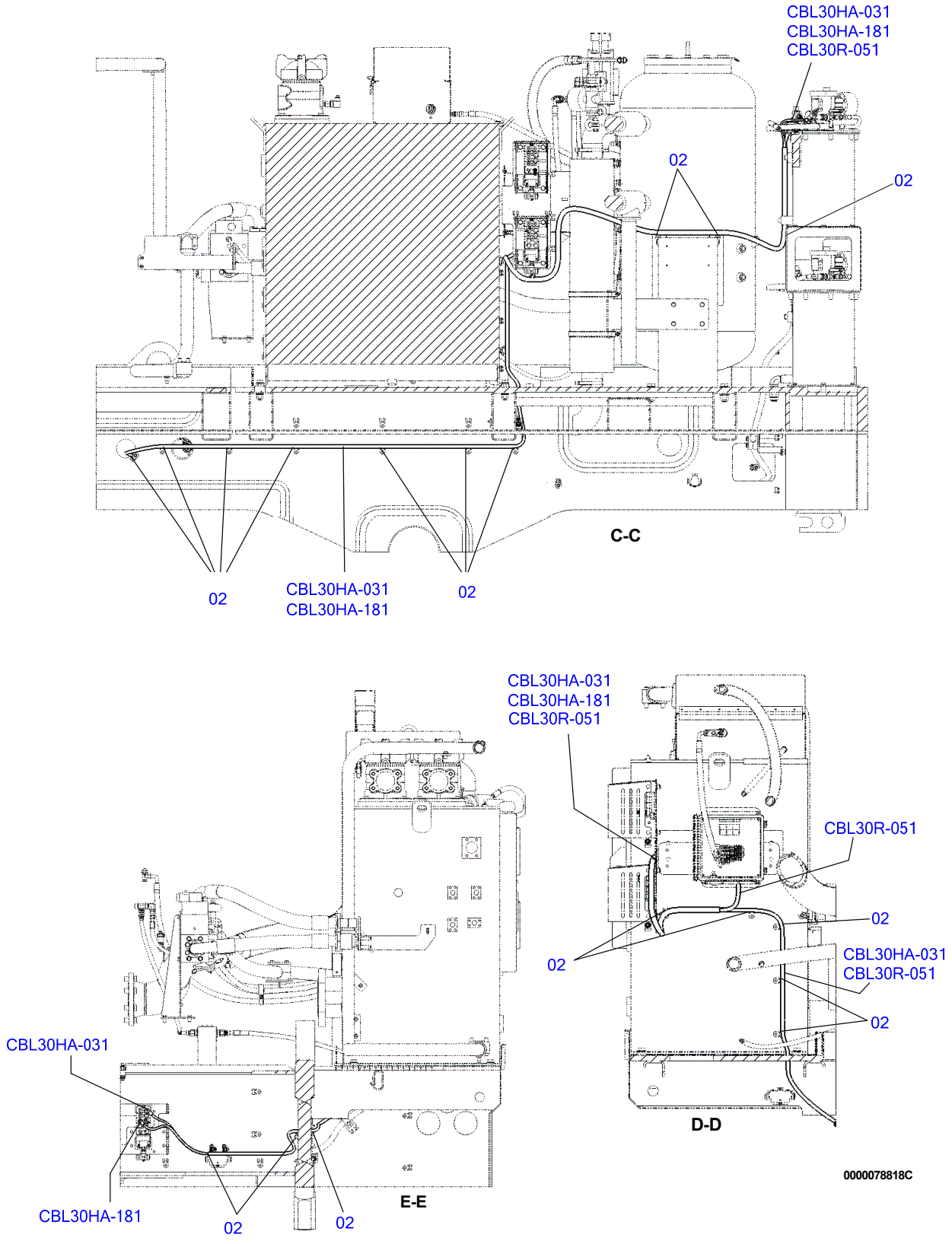


CABLE INSTALLATION, AUTO LUBE, CHASSIS



TOP VIEW

CABLE INSTALLATION, AUTO LUBE, CHASSIS

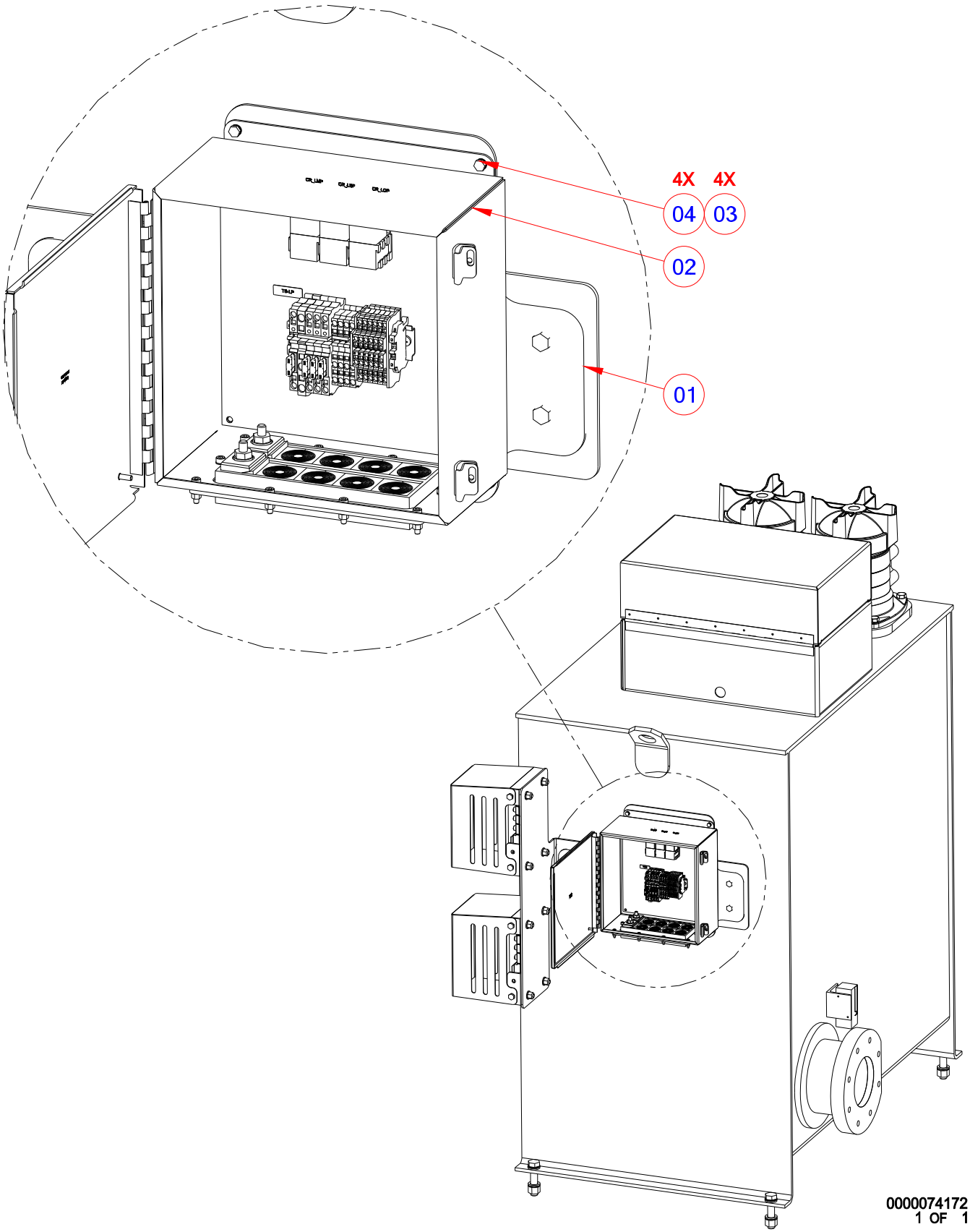


SECTIONS C-C, D-D & E-E

CABLE INSTALLATION, AUTO LUBE, CHASSIS

Item	Part No.	Description	Qty.
	R89725F31	CABLE INSTALLATION, AUTO LUBE, CHASSIS	
01	R89740F31	・WIRE LIST, Auto Lube, Chassis	1
CBL30HA-031	R90650T21D800	・・CABLE, 2 Pin	1
CBL30HA-181	R90650T12D810	・・CABLE, 4 Pin	1
CBL30R-051	R88494D400	・・CABLE ASSEMBLY	1
02	R88249D1	・TIE, Wire	25

INSTALLATION, ELECTRICAL BOX, LUBE

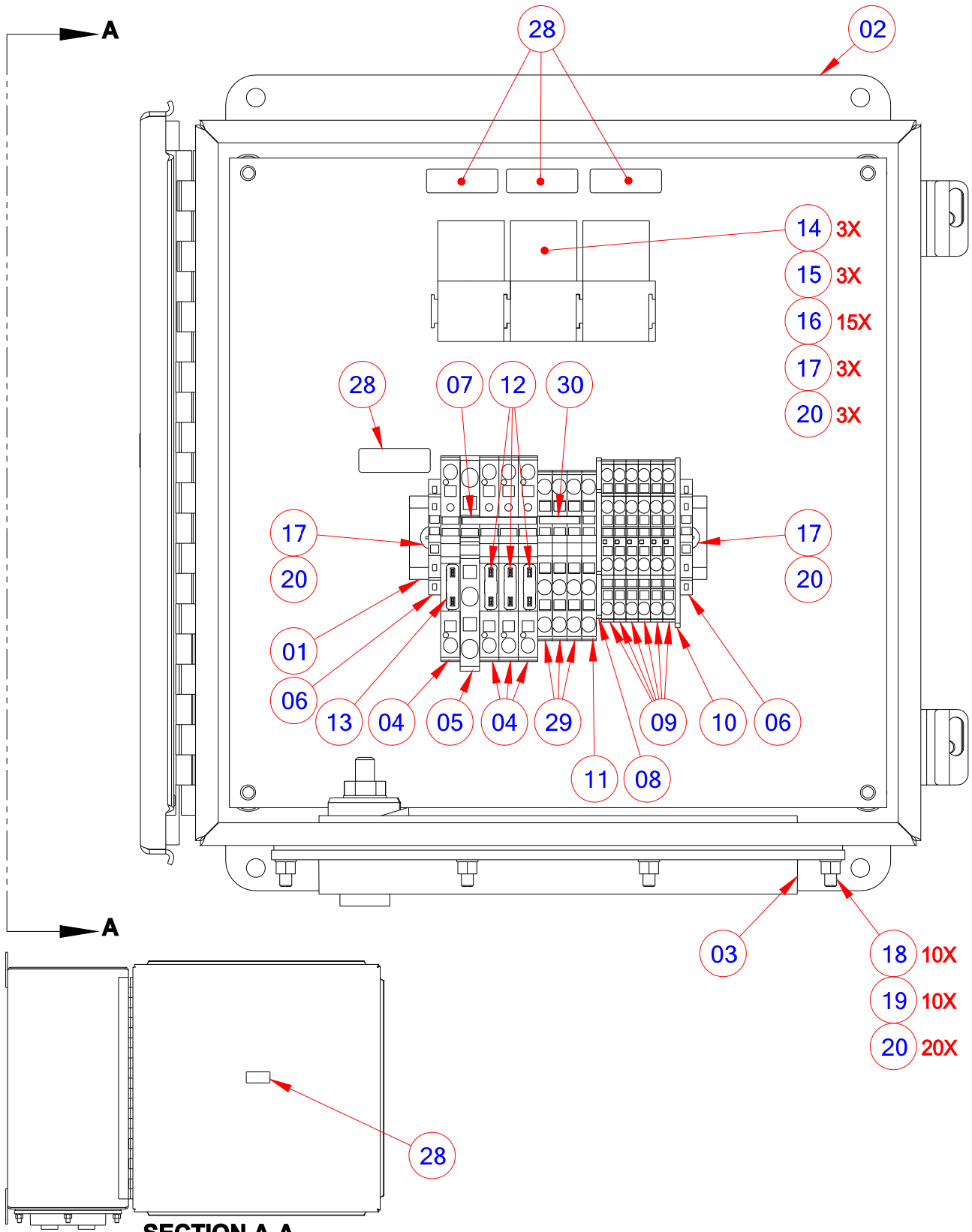


INSTALL, ELECTRICAL BOX, LUBE

INSTALLATION, ELECTRICAL BOX, LUBE

Item	Part No.	Description	Qty.	Page
	R100021F1	INSTALLATION, ELECTRICAL BOX, LUBE		
01	R99976D1	▪ BRACKET, Electrical Box Mounting	1	
02	R99748F1	▪ JBOX, Lube Pump Control	1	185
03	R82264D19	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4	
04	0825M06016	▪ BOLT, Hex Hd	4	

JUNCTION BOX, LUBE PUMP CONTROL



SECTION A-A
SCALE 1 : 6

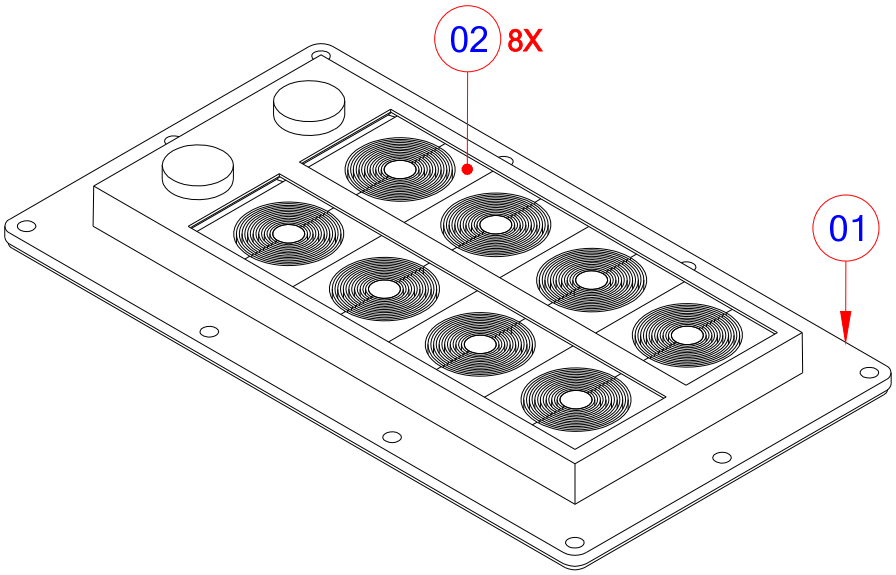
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1 OF 1

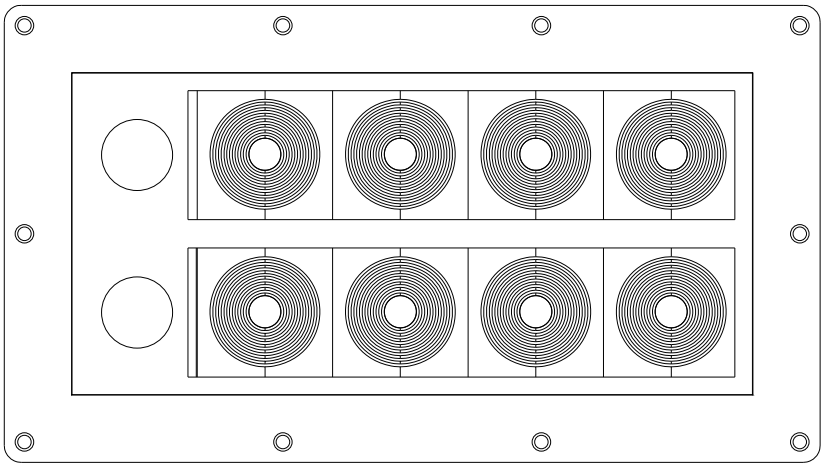
JBOX, LUBE PUMP CONTROL

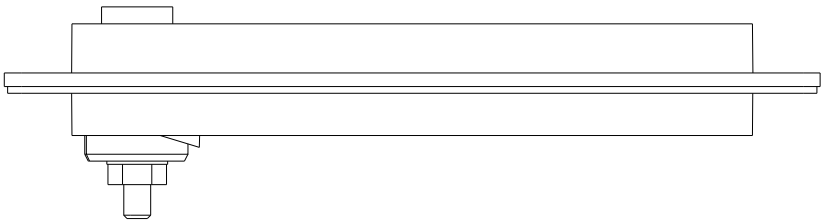
JUNCTION BOX, LUBE PUMP CONTROL

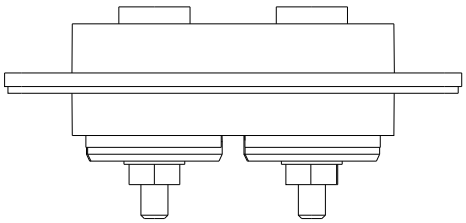
Item	Part No.	Description	Qty.	Unit	Page
	R99748F1	JUNCTION BOX, LUBE PUMP CONTROL			
01	R99748Y1	▪ DIN RAIL	1		
	500603575	▪ ▪ RAIL, Mounting	10	Inch	
02	R99749F1	▪ JUNCTION BOX, Modified	1		
	14Z545D8	▪ ▪ ENCLOSURE	1		
03	R89543F1	▪ CLAMP, Compression	1		186
04	R80858D3	▪ BLOCK, Terminal, Fuse - w/LED	4		
05	R88487D1	▪ BLOCK, Terminal	1		
06	R82712D1	▪ CLAMP, End	2		
07	R82385D3	▪ BRIDGE, Plug In, 4 Position	1		
08	R90745D2	▪ END COVER,	1		
09	R90745D1	▪ TERMINAL BLOCK, Double Level, Spring Cage	6		
10	R82705D1	▪ PLATE, Spacer	1		
11	R82620D7	▪ BLOCK, Terminal Green/Yellow	1		
12	R82706D7	▪ FUSE, 10A	3		
13	R82706D11	▪ FUSE, 30A	1		
14	R4260950	▪ RELAY, 20A	3		
15	R4260949	▪ BRACKET, Relay Mounting	3		
16	R4260955	▪ CONNECTOR, W/ Tang	15		
17	0856M05012	▪ SCREW, Pan Head	5		
18	0830M05020	▪ SCREW, Socket Head	10		
19	2104M005	▪ NUT, Hex	10		
20	18Z3087D1	▪ WASHER, Lock	25		
21		NOT USED			
22		NOT USED			
23	R90706D1	▪ MARKER, Terminal Block	1		
24	R90705D2	▪ MARKER, Terminal Block	1		
25	R90705D11	▪ MARKER, Terminal Block	1		
26	R90705D12	▪ MARKER, Terminal Block	1		
27	R90497D1	▪ LABELS, Wire, Lube Pump Control	1		
28	R91048D1	▪ DECALS	1		
29	R82620D1	▪ BLOCK, Terminal - Gray	3		
30	R82378D2	▪ BRIDGE, Plug In, 3 Position	1		

CLAMP, COMPRESSION









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1 OF 1

CLAMPING ASSEMBLY, COMPRESSION

CLAMP, COMPRESSION

Item	Part No.	Description	Qty.
	R89543F1	CLAMP, COMPRESSION	
01	R89543D1	▪ FRAME	1
02	R92760D1	▪ CLAMPING MODULE, Adjustable	8
03	R57558D31	▪ LUBRICANT (Not Shown)	1

KOMATSU

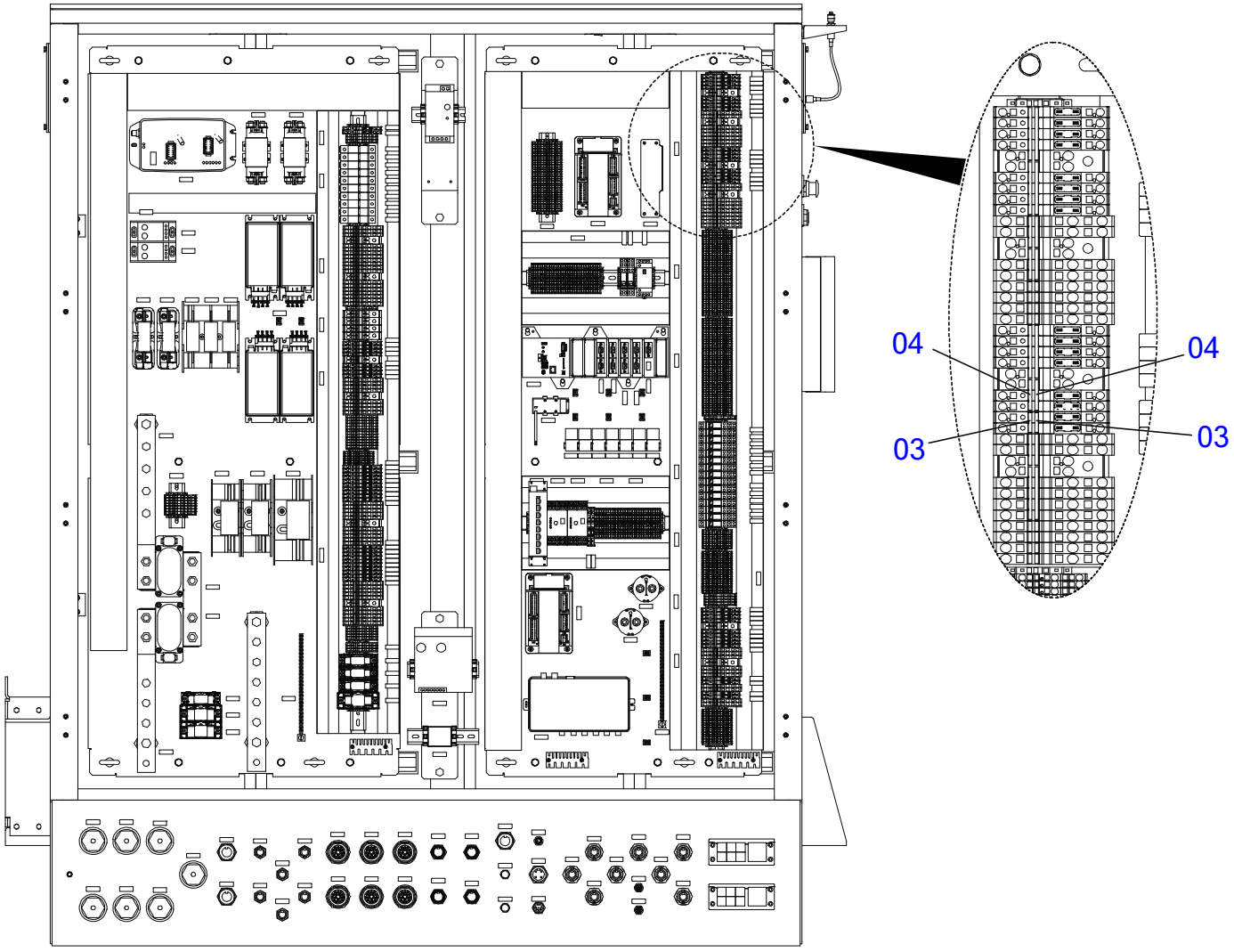
INSTALLATION, CABLE ROUTING, TIER 4

Item	Part No.	Description	Qty.	Unit
	R111038F17	INSTALLATION, CABLE ROUTING, TIER 4		
WID2		· CABLE, 4/0 AWG, Black	1	
	505581722	· · CABLE, 4/0 AWG, Black	19	Foot
WID3		· CABLE, 16AWG, 2 Cond	1	
	5079D8150	· · CABLE, 16AWG, 2 Cond	19	Foot
		· SHRINK TUBING	1	
	185310500	· · SHRINKABLE TUBING	?	Foot
CBL12D-401	R111723F1	· CABLE	1	
		· · CABLE, 16AWG, 2 Cond	1	
	5079D8150	· · · CABLE, 16AWG, 2 Cond	35	Foot
	R84897D2	· · CONNECTOR, Plug	1	
	R84897D6	· · PLUG, Socket	2	
	R84897D4	· · WEDGE LOCK, Pin	1	
CBL12D-441	R111723F1	· CABLE	1	
		· · CABLE, 16AWG, 2 Cond	1	
	5079D8150	· · · CABLE, 16AWG, 2 Cond	35	Foot
	R84897D2	· · CONNECTOR, Plug	1	
	R84897D6	· · PLUG, Socket	2	
	R84897D4	· · WEDGE LOCK, Pin	1	
CBL12D-421	R111723F1	· CABLE	1	
		· · CABLE, 16AWG, 2 Cond	1	
	5079D8150	· · · CABLE, 16AWG, 2 Cond	35	Foot
	R84897D2	· · CONNECTOR, Plug	1	
	R84897D6	· · PLUG, Socket	2	
	R84897D4	· · WEDGE LOCK, Pin	1	
CBL12D-381	R111724F1	· CABLE, Weather Pack	1	
		· · CABLE, 14AWG, 3 Cond	1	
	205480251	· · · CABLE, 14AWG, 3 Cond	35	Foot
	R113638D102	· · CONNECTOR, 2 Pin	1	
	R113638D202	· · CABLE SEAL, Weather Pack	2	
	R113638D402	· · TERMINAL, Weather Pack	2	
CBL12DE-061	R90708D2	· CABLE, Follower Alternator	1	
CBL21AC-251	R90652T10D50	· CABLE	1	
CBL21AC-391	R90651T20D500	· CABLE	1	
11	R90737D1	· PIPE SLIDE WRENCH LINEAR POSITION COMMUNICATION T	1	
13	R93951D41	· LUG	3	
14	79U2522D60	· LUG, Terminal	3	
15	R108702D7	· GROMMET, Small	3	
17	R108702D13	· GROMMET, Small	1	
18	0830M04040	· SCREW, Socket Head	1	

INSTALLATION, CABLE ROUTING, TIER 4

Item	Part No.	Description	Qty.	Unit
19	3510M004	▪ WASHER, Oversized	2	
20	2104M004	▪ NUT, Hex	1	
21	R88249D1	▪ TIE, Wire	35	
CBL12DE-091	R84894D1	▪ CABLE	1	
23		▪ CABLE, 4/0 AWG, Black	1	
	505581722	▪ ▪ CABLE, 4/0 AWG, Black	38	Foot
24	R84897D1	▪ CONNECTOR, Receptacle	1	
25	R84897D2	▪ CONNECTOR, Plug	1	
26	R84897D3	▪ WEDGE LOCK, Receptacle	1	
27	R84897D4	▪ WEDGE LOCK, Pin	1	
28	R84897D5	▪ PIN, Receptacle	2	
29	R84897D6	▪ PLUG, Socket	2	
30	79U2522D10	▪ TERMINAL, Solderless	1	

ELECTRICAL INSTALLATION, FUEL PUMP

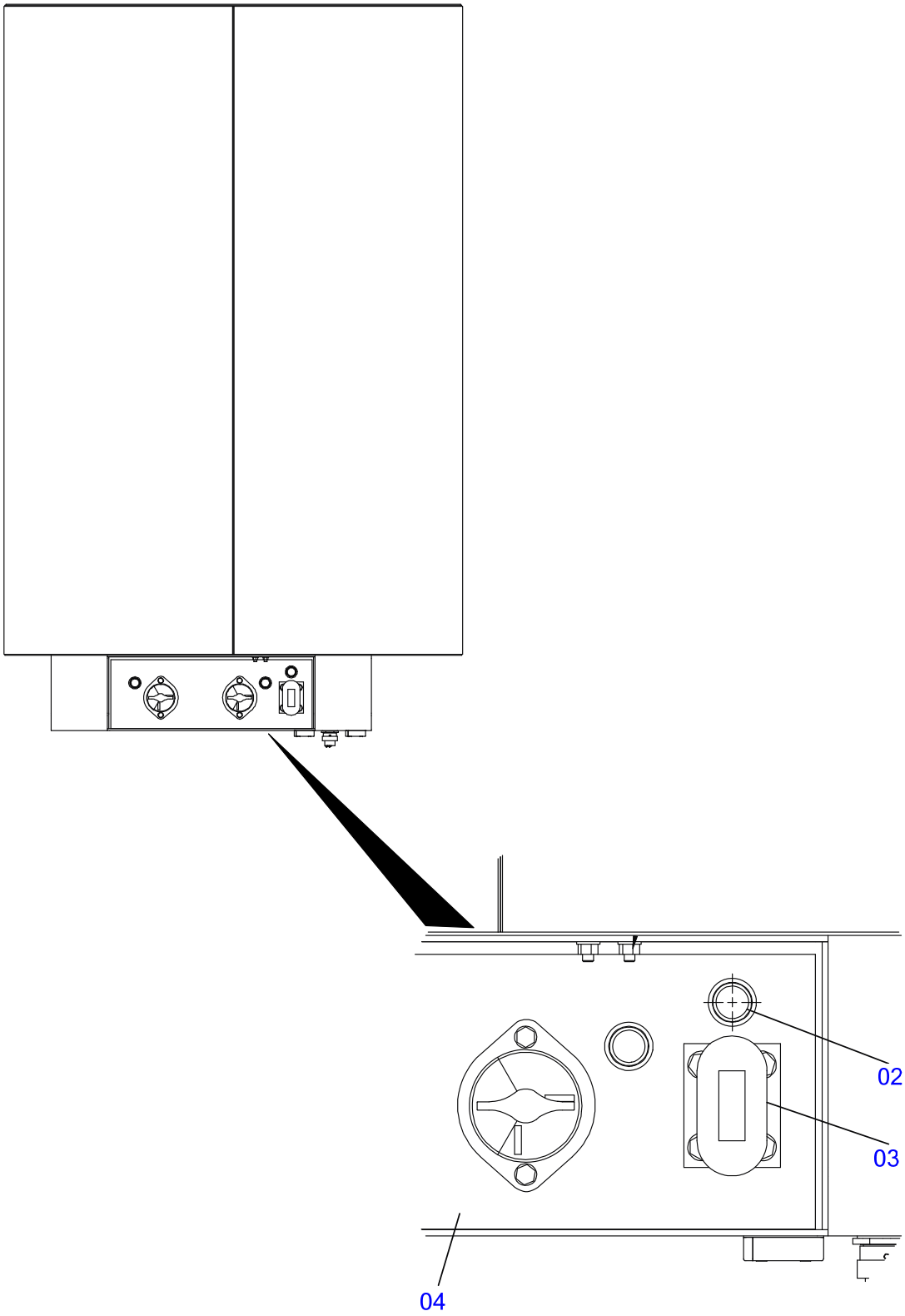


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ELECTRICAL INSTALLATION, FUEL PUMP

Item	Part No.	Description	Qty.	Unit
	R120558F1	ELECTRICAL INSTALLATION, FUEL PUMP		
01		・CABLE, 12AWG, Black (Not Shown)	1	
	208481356	・・CABLE, 12AWG, Black (Not Shown)	10	Foot
02	79U2522D20	・TERMINAL LUGS, Solderless (Not Shown)	1	
03	R82385D1	・BRIDGE, Plug-In, 2 Position	2	
04	R82385D2	・BRIDGE, Plug-In, 3 Position	2	

INSTALLATION, CONTROL POWER LIGHT



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INSTALLATION, CONTROL POWER LIGHT

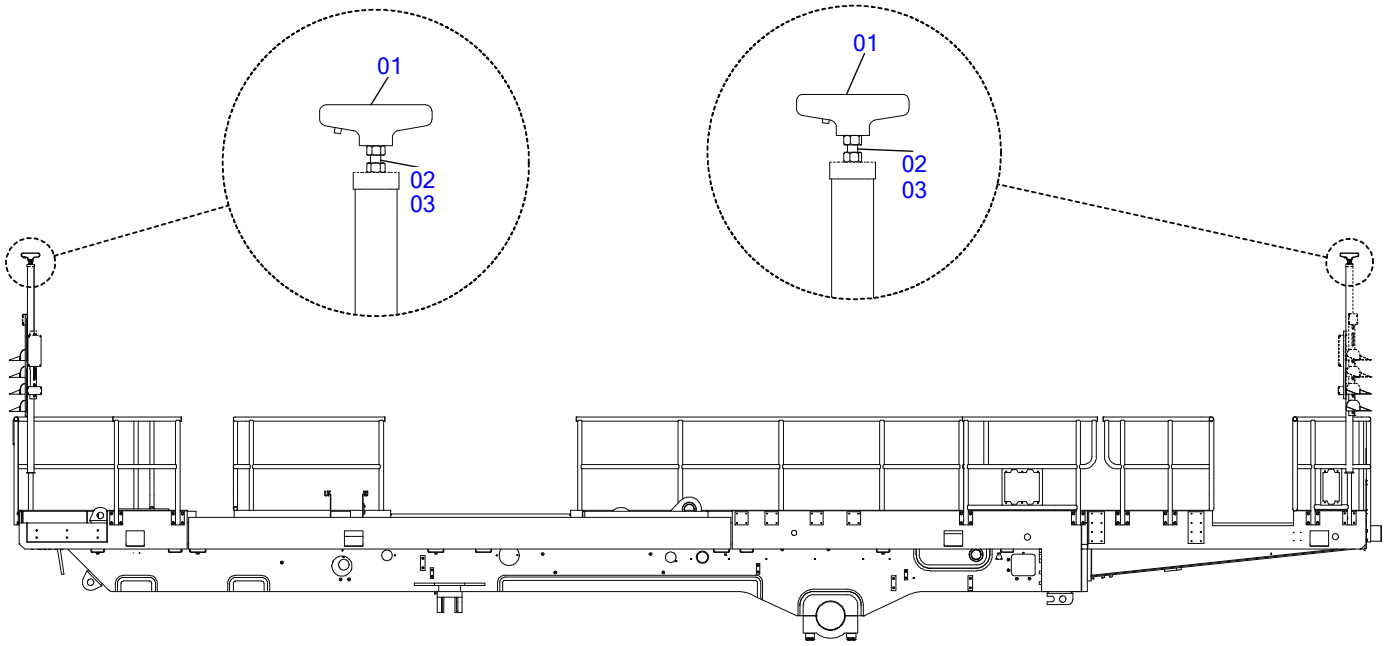
INSTALLATION, CONTROL POWER LIGHT

Item	Part No.	Description	Qty.	Unit
	R121641F1	INSTALLATION, CONTROL POWER LIGHT		
WID01		・CABLE, 14AWG, Black	1	
WID02	208481290	・・CABLE, 14AWG, Black	55	Foot
02	R120695D1	・LIGHT ASSEMBLY, w/Green LED	1	
03	R121639D1	・DUST CAP, Battery Charging Socket	1	
04	R119279D2	・DECAL, Disconnect Panel	1	

DECAL ASSEMBLY, GROUND DISCONNECT

Item	Part No.	Description	Qty.
	R121851F1	DECAL ASSEMBLY, GROUND DISCONNECT	
01	R120495D1	▪ DECAL, Ground Disconnect	4

INSTALLATION, HPGPS



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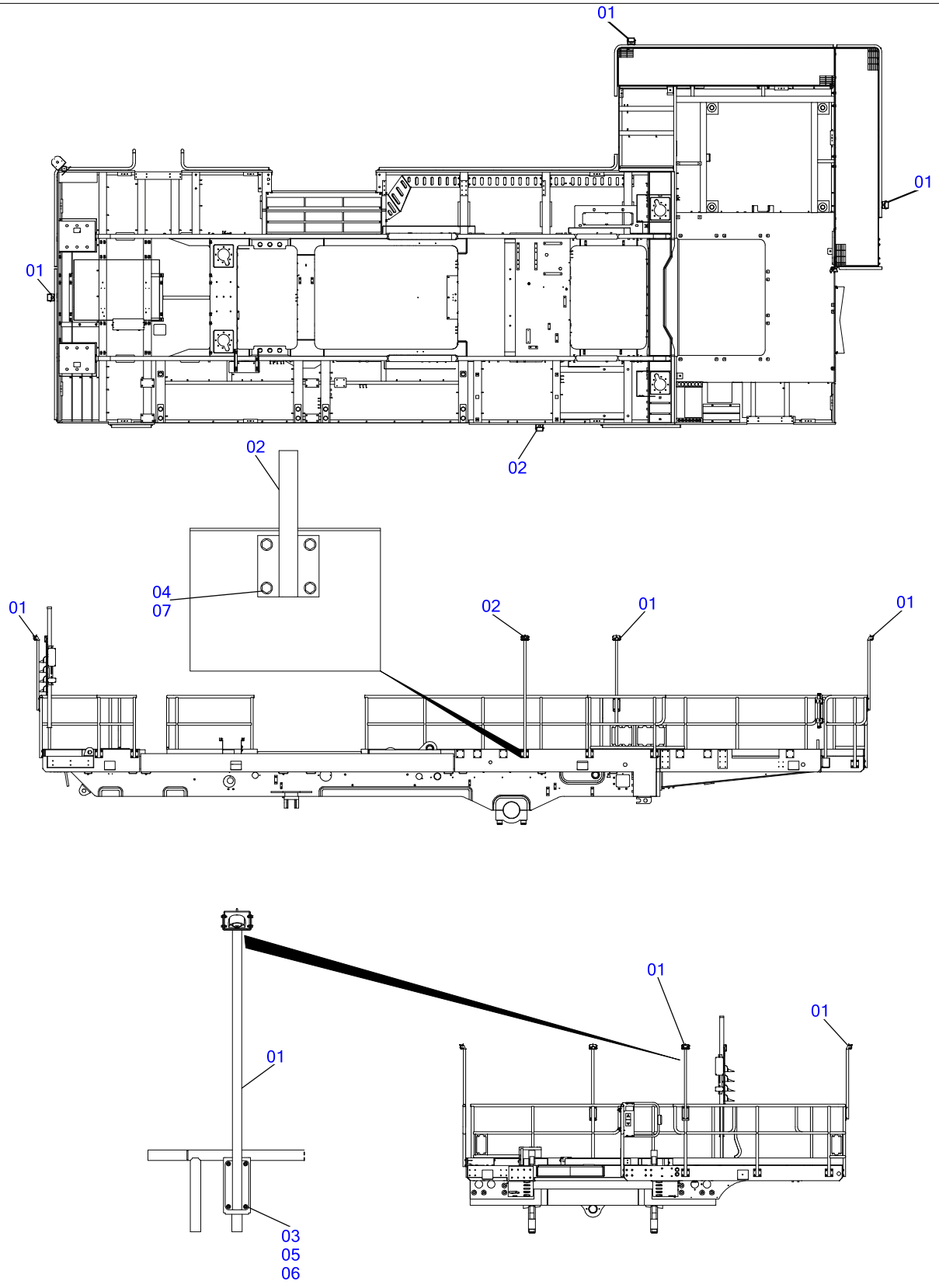
INSTALLATION, HPGPS

Item	Part No.	Description	Qty.	Page
	R113851F1	INSTALLATION, HPGPS		
01	R92162D1	▪ GPS ANTENNA #2	2	
02	R108520D1	▪ ROD, Threaded	2	
03	20Q270D40	▪ NUT, Hex	4	
04	R111038F5505	▪ CABLE INSTALLATION, HPGPS (Not Shown)	1	192

CABLE INSTALLATION, HPGPS (Not Illustrated)

Item	Part No.	Description	Qty.
	R111038F5505	CABLE INSTALLATION, HPGPS	
CBL20R-401	R112138D600	▪ CABLE	1
CBL20R-441	R112138D1000	▪ CABLE	1
CBL25A-061	R112138D1200	▪ CABLE	1
04	R112140D1	▪ COUPLING	1

INSTALLATION, HAWKEYE



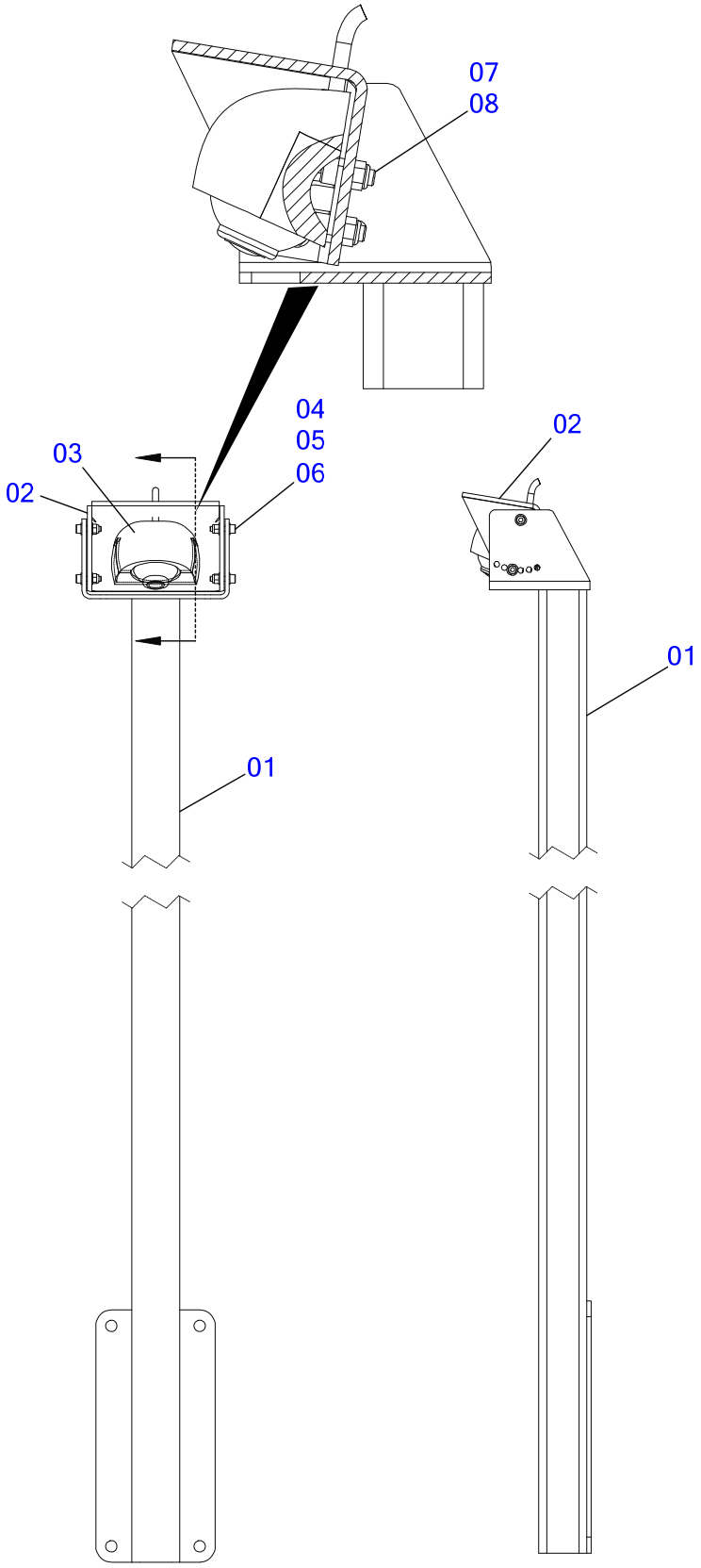
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INSTALLATION, HAWKEYE

INSTALLATION, HAWKEYE

Item	Part No.	Description	Qty.	Page
	R113852F1	INSTALLATION, HAWKEYE		
01	R106876F1	▪ HAWKEYE POST, Short	3	194
02	R106876F2	▪ HAWKEYE POST, Tall	1	195
03	0630M08025	▪ SCREW, Socket Head	12	
04	0825M12030	▪ BOLT, Hex Hd	4	
05	2104M008	▪ NUT, Hex	12	
06	3648M008	▪ WASHER, Hardened	24	
07	3648M012	▪ WASHER, Hardened	4	
08	R111038F5501	▪ CABLE INSTALLATION, Hawkeye (Not Shown)	1	196

HAWKEYE POST, SHORT



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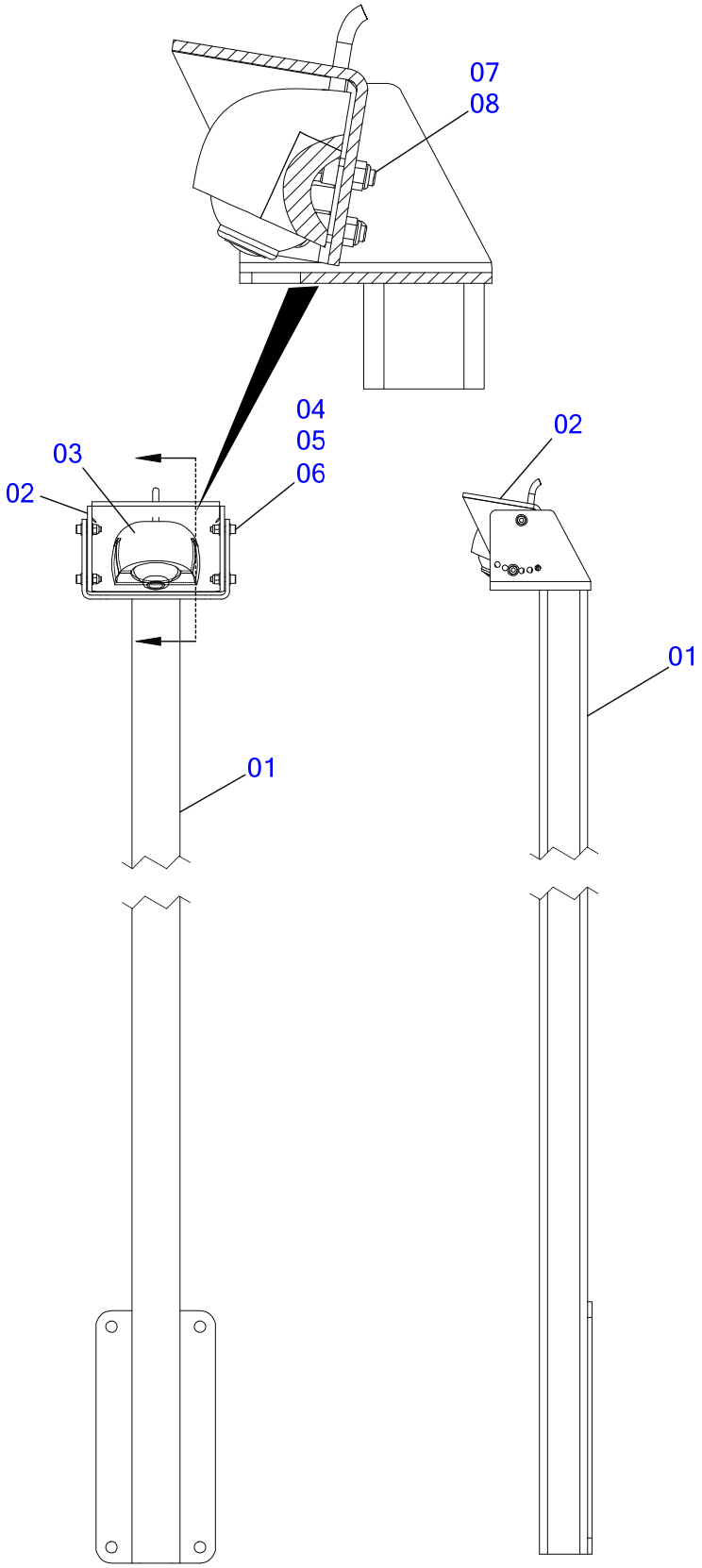
HAWKEYE POST

KOMATSU

HAWKEYE POST, SHORT

Item	Part No.	Description	Qty.
	R106876F1	HAWKEYE POST, SHORT	
01	R108349D1	▪ HAWKEYE POST, Short	1
02	R106889D1	▪ BRACKET, Camera, Hawkeye	1
03	R95938D2	▪ CAMERA	1
04	20Z1659D4	▪ NUT, Lock	4
05	0630M04016	▪ SCREW, Socket Head	4
06	3612M004	▪ WASHER, Plain	8
07	20Z1659D5	▪ NUT, Lock	4
08	0630M05012	▪ SCREW, Socket Head	4

HAWKEYE POST, TALL



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HAWKEYE POST

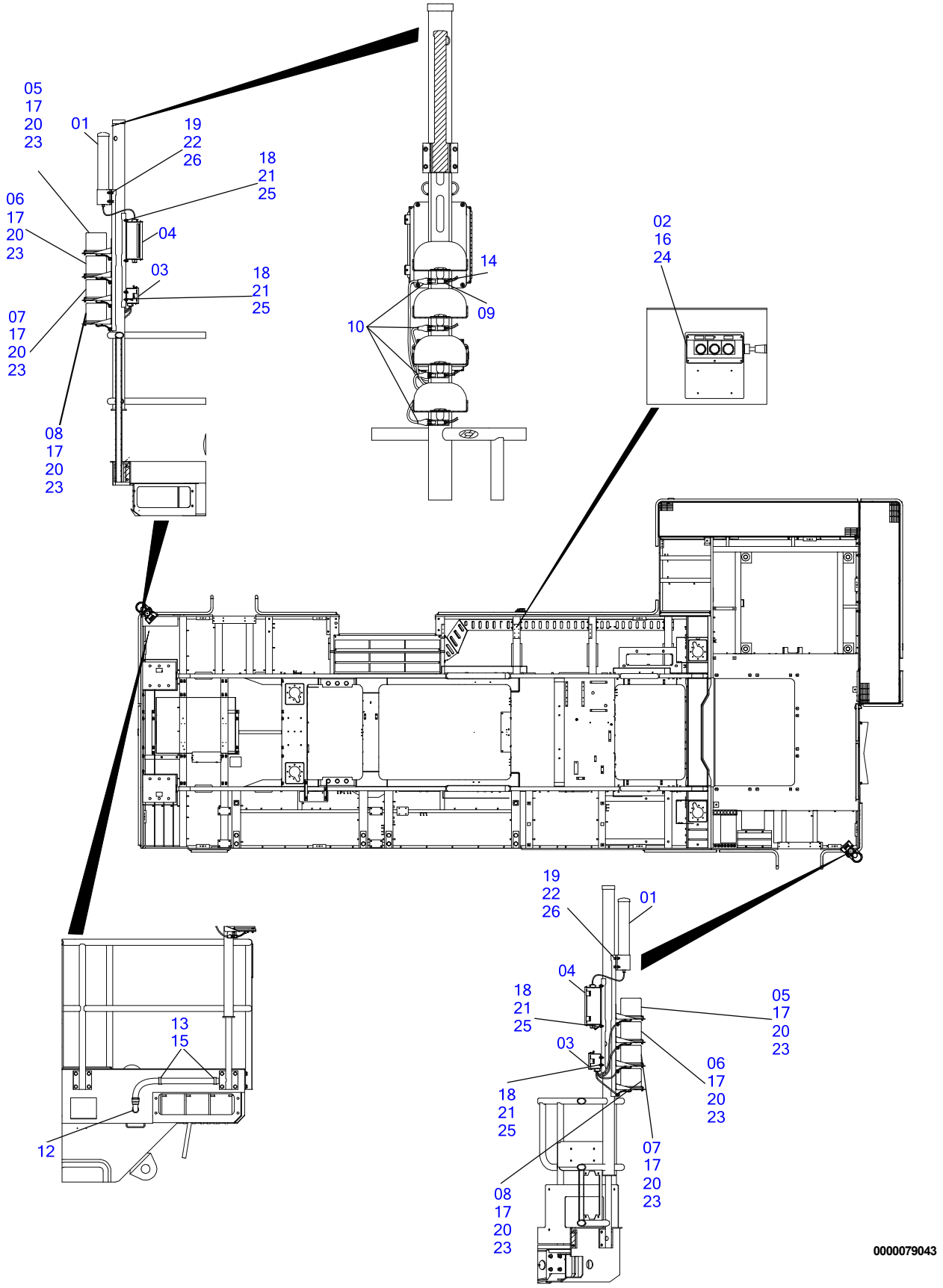
HAWKEYE POST, TALL

Item	Part No.	Description	Qty.
	R106876F2	HAWKEYE POST, TALL	
01	R108384D1	▪ HAWKEYE POST, Tall	1
02	R106889D1	▪ BRACKET, Camera, Hawkeye	1
03	R95938D2	▪ CAMERA	1
04	0630M04016	▪ SCREW, Socket Head	4
05	3612M004	▪ WASHER, Plain	8
06	20Z1659D4	▪ NUT, Lock	4
07	20Z1659D5	▪ NUT, Lock	4
08	0630M05012	▪ SCREW, Socket Head	4

CABLE INSTALLATION, HAWKEYE (Not Illustrated)

Item	Part No.	Description	Qty.
	R111038F5501	CABLE INSTALLATION, HAWKEYE (Not Illustrated)	
CBL20C-261	R95939D3	▪ CABLE ASSEMBLY	1
CBL20C-281	R95939D2	▪ CABLE, 10 Meter	5
CBL20C-341-2	R95939D4	▪ CABLE, 20 Meter	1

INSTALLATION, TELE-OP

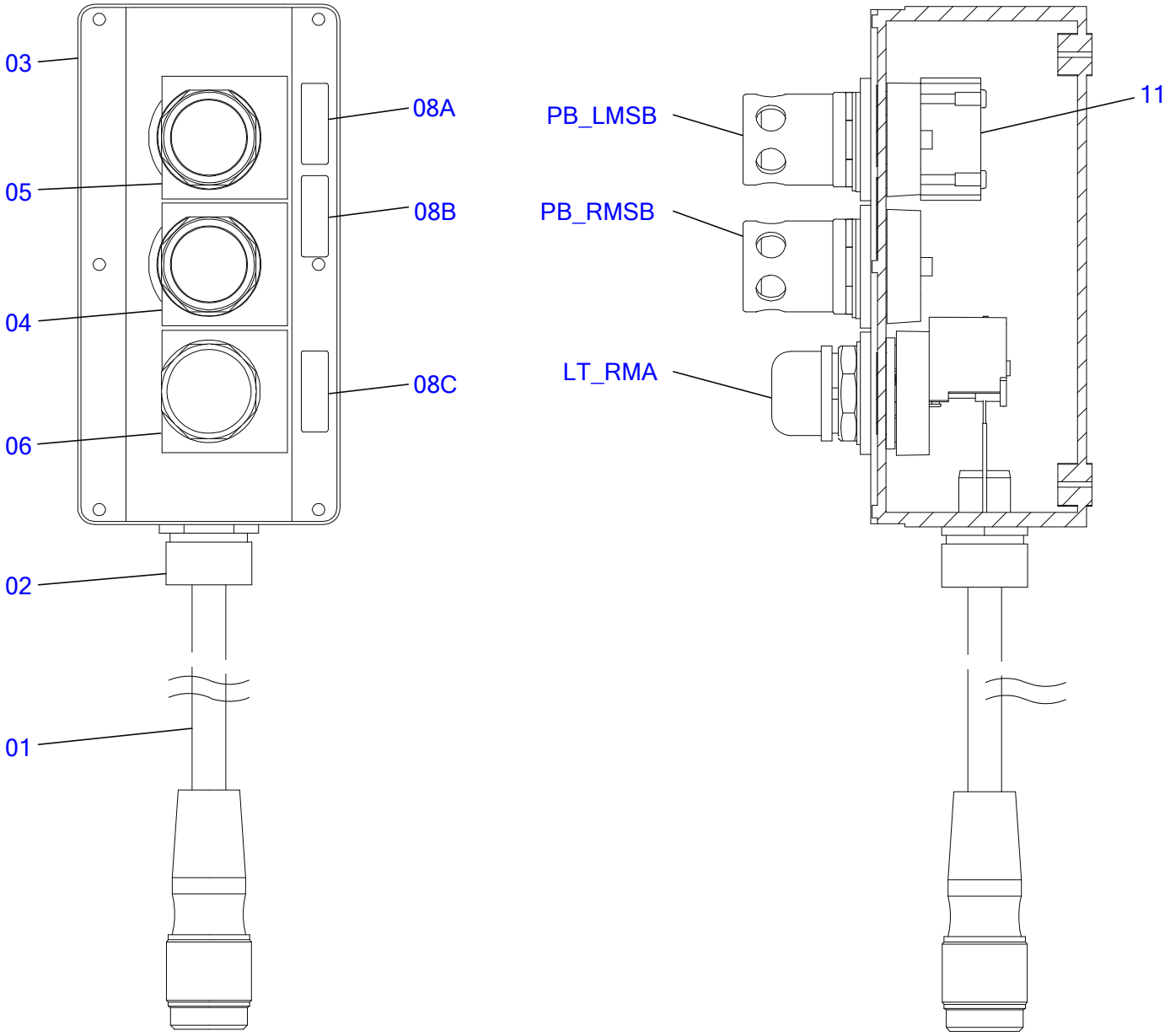


INSTALLATION, TELE-OP

INSTALLATION, TELE-OP

Item	Part No.	Description	Qty.	Page
	R113854F1	INSTALLATION, TELE-OP		
01	R105323D1	▪ ANTENNA, WIFI	2	
02	R90734F1	▪ PB STATION, Remote Operation (Not Shown)	1	198
03	R105290F1	▪ ENCLOSURE, Strobe Terminals	2	199
04	R105287F1	▪ ENCLOSURE, Fluid Mesh	2	200
05	R111234F1	▪ STROBE LIGHT WITH 2 PIN CONNECTOR, Red	2	201
06	R111234F2	▪ STROBE LIGHT WITH 2 PIN CONNECTOR, Green	2	202
07	R111234F3	▪ STROBE LIGHT WITH 2 PIN CONNECTOR, Blue	2	203
08	R111234F4	▪ STROBE LIGHT WITH 2 PIN CONNECTOR, Amber	2	204
09	R111402D1	▪ CLIP, Deutsch Connector Mounting	8	
10	R111231D46	▪ CABLE, Deutsch	8	
11	R110929T2M25D5	▪ CONDUIT, Flexible (Not Shown)	1	
12	R110990D1	▪ CONDUIT, Bulkhead	1	
13	R110919D1	▪ CLAMP, Conduit	2	
14	0863V093	▪ SCREW, Pan Hd	8	
15	0630M05016	▪ SCREW, Socket Head	2	
16	0630M05020	▪ SCREW, Socket Head	4	
17	7830M05025	▪ SCREW, Socket Head	24	
18	0630M06020	▪ SCREW, Socket Head	16	
19	0630M08030	▪ SCREW, Socket Head	8	
20	2104M005	▪ NUT, Hex	24	
21	2104M006	▪ NUT, Hex	16	
22	2104M008	▪ NUT, Hex	8	
23	3648M005	▪ WASHER, Hardened	50	
24	18Z3087D1	▪ WASHER, Conical Lock	4	
25	R86393D4	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	32	
26	R82264D5	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	16	
27	R111038F5502	▪ CABLE INSTALLATION, TELE-OP, Chassis (Not Shown)	1	205

PUSHBUTTON STATION, REMOTE OPERATION

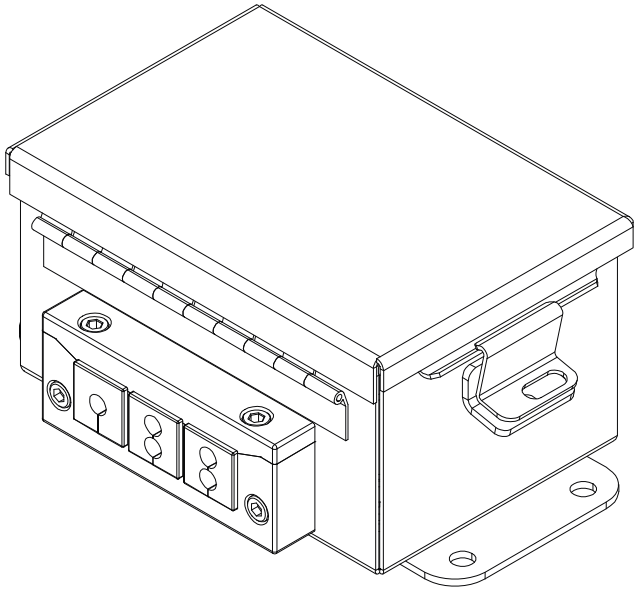


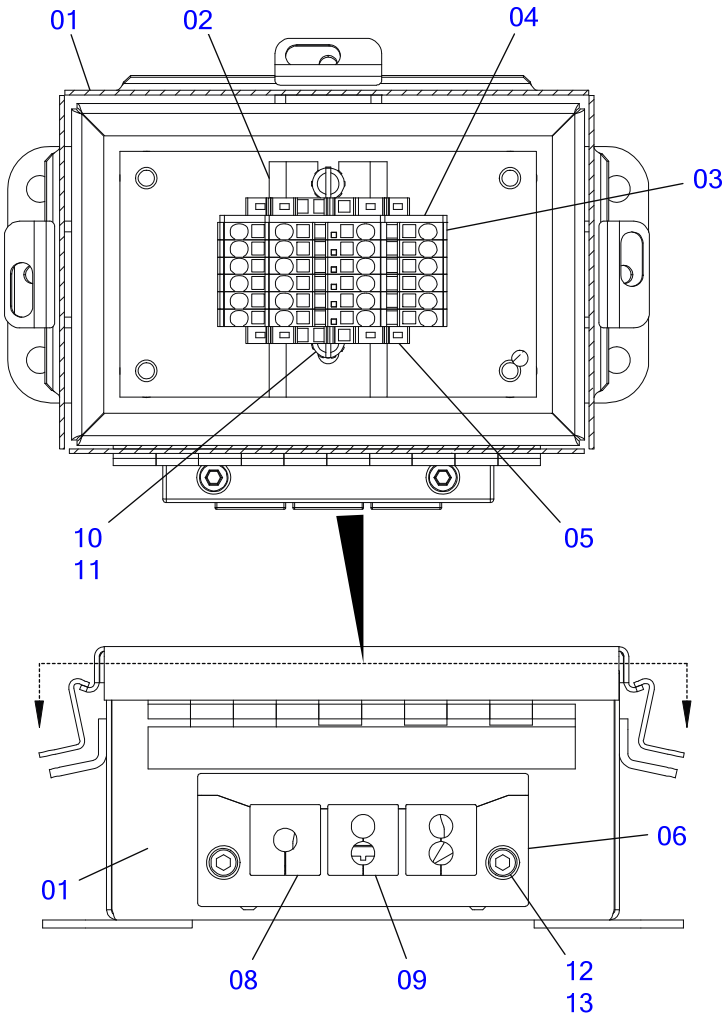
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PUSHBUTTON STATION, REMOTE OPERATION

Item	Part No.	Description	Qty.
	R90734F1	PUSHBUTTON STATION, REMOTE OPERATION	
01	R4262045	・CABLE, Turck, 12-PIN	1
02	85Z24D4	・GRIP, Cord	1
03	R90731D3	・LOCAL MODE SELECT (BOARDING)	1
04	R90729D2	・NAMEPLATE, Remote Mode Select	1
05	R90729D1	・NAMEPLATE, Local Mode Select	1
06	R90729D6	・NAMEPLATE, Remote Mode Available	1
07		NOT SHOWN	
08	R91020D1	・DECALS, TELEOP Pushbutton	1
08A	R91020D3	・・DECAL, PB_LMSB	1
08B	R91020D4	・・DECAL, PB_RMSB	1
08C	R91020D5	・・DECAL, LT_RMA	1
PB_LMSB	R97604D1	・PUSHBUTTON, Momentary Green	1
PB_RMSB	R97604D1	・PUSHBUTTON, Momentary Green	1
LT_RMA	R97604D2	・PILOT LIGHT, Amber LED	1
11	79Z2721D7	・CONTACT BLOCK	1

ENCLOSURE, STROBE TERMINAL





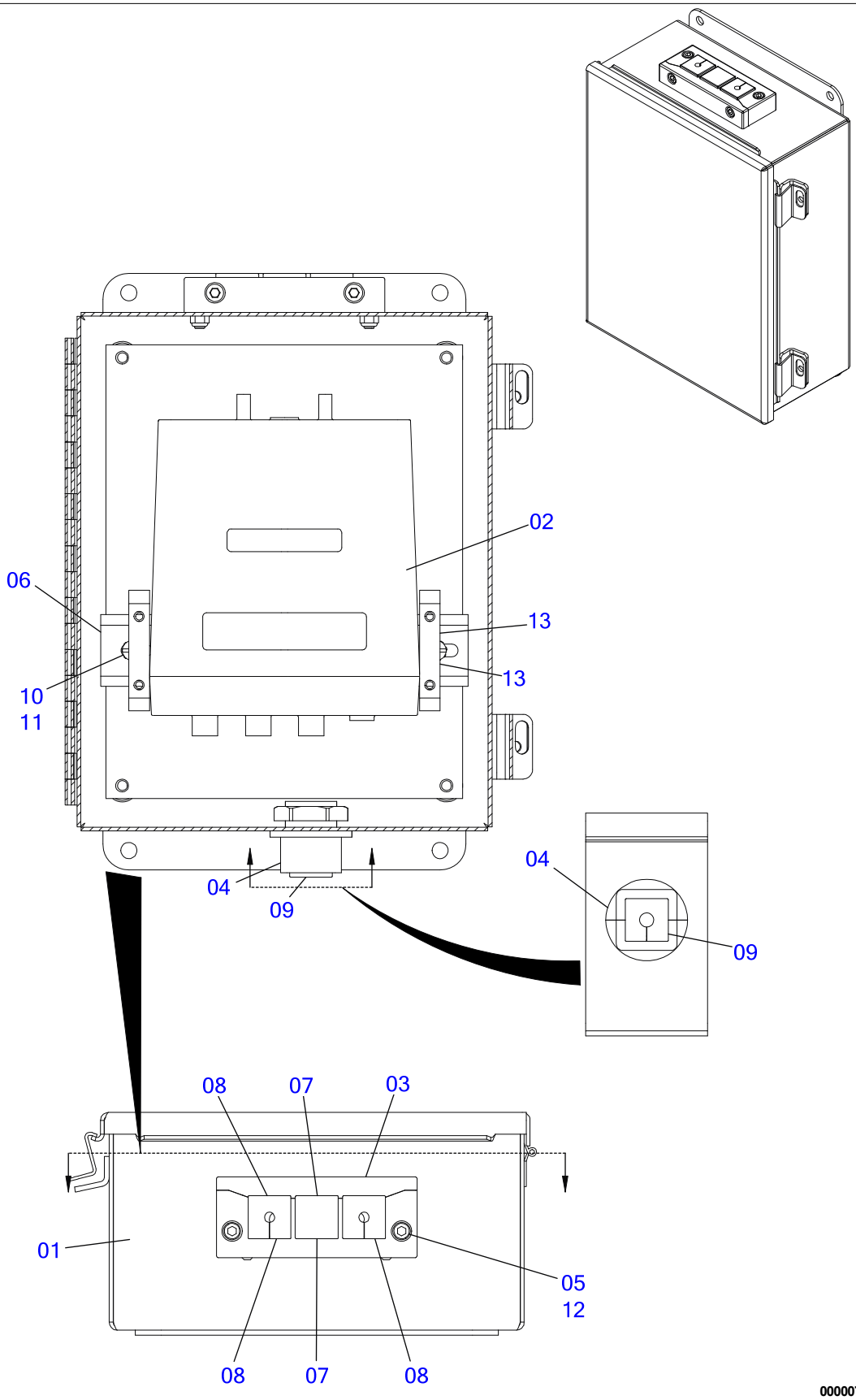
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ENCLOSURE, STROBE TERMINAL

ENCLOSURE, STROBE TERMINAL

Item	Part No.	Description	Qty.
	R105290F1	ENCLOSURE, STROBE TERMINAL	
01	R110334D1	· ENCLOSURE	1
02	R105898D7	· RAIL, Mounting	1
03	R90745D1	· TERMINAL BLOCK, Double Level, Spring Cage	6
04	R90745D2	· END COVER, Double Level	1
05	R82712D1	· CLAMP, End	2
06	R96480D1	· GRIP, Cord, 3-Cable	1
07		NOT USED	
08	R105592D7	· GROMMET	1
09	R105614D7	· GROMMET	2
10	R106890D005	· WASHER, Lock, External Tooth	2
11	0662M05008	· SCREW, Pan Head	2
12	0630M05020	· SCREW, Socket Head	2
13	20Z1659D5	· NUT, Lock	2
14	R102663D1	· MARKER, Terminal Block, ZBF 5, 101-110	2
15	R102663D2	· MARKER, Terminal Block, ZBF 5, 111-120	2

ENCLOSURE, FLUID MESH

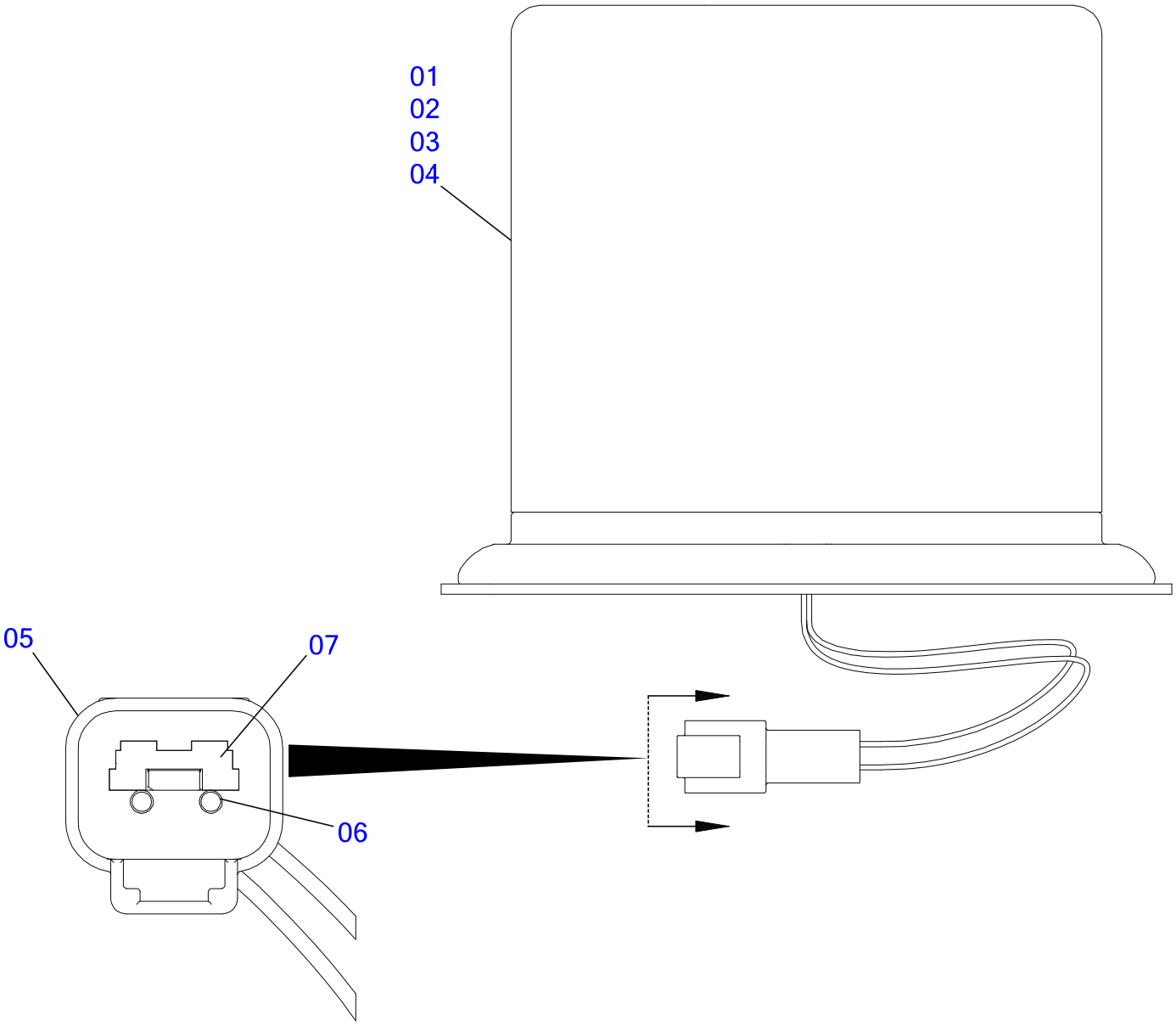


ENCLOSURE, FLUID MESH

ENCLOSURE, FLUID MESH

Item	Part No.	Description	Qty.
	R105287F1	ENCLOSURE, FLUID MESH	
01	R110335D1	・ENCLOSURE, Fluid Mesh, Machining	1
02	R110425D1	・WIRELESS RECEIVER, GPS	1
03	R96480D1	・CORD GRIP, 3 Cable	1
04	R110381D1	・FRAME, Single Grommet	1
05	20Z1659D5	・NUT, Lock	2
06	R105898D18	・DIN RAIL	1
07	R105592D18	・GROMMET, Blind (Used during shipping)	5
08	R105592D5	・GROMMET	2
09	R105592D7	・GROMMET	1
10	0662M05008	・SCREW, Pan Head	3
11	R106890D005	・WASHER, Lock, External Tooth	3
12	0630M05020	・SCREW, Socket Head	2
13	R82393D1	・CLAMP, End	2

STROBE LIGHT, 2 PIN CONNECTOR, RED



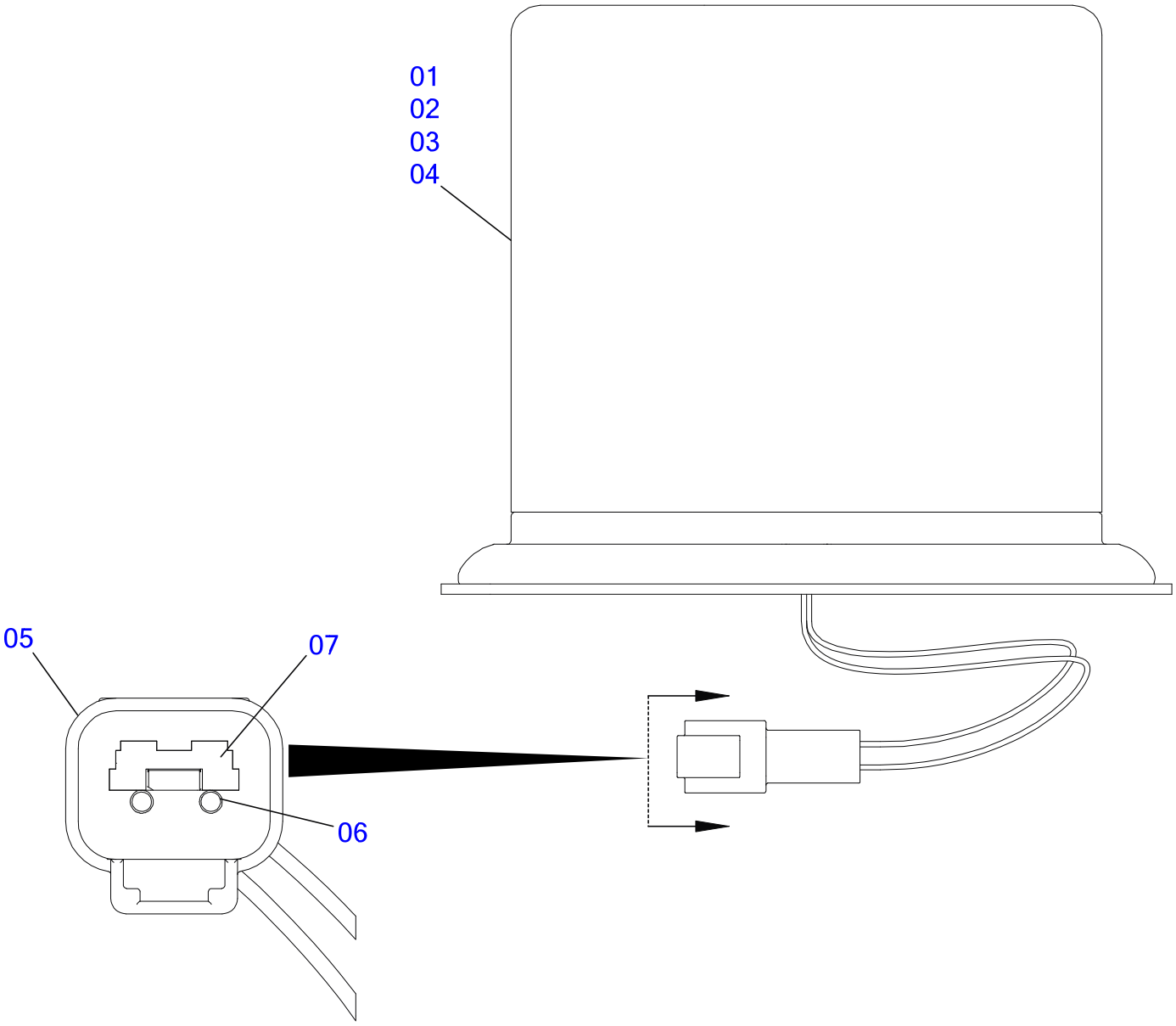
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STROBE LIGHT, 2 PIN CONNECTOR

STROBE LIGHT, 2 PIN CONNECTOR, RED

Item	Part No.	Description	Qty.
	R111234F1	STROBE LIGHT, 2 PIN CONNECTOR, RED	
01	R111235D1	▪ LED BEACON, 12/24VDC, Red	1
02		NOT USED	
03		NOT USED	
04		NOT USED	
05	R84897D1	▪ CONNECTOR, Receptacle	1
06	R84897D5	▪ PIN, Receptacle	2
07	R84897D3	▪ WEDGE LOCK, Receptacle	1

STROBE LIGHT, 2 PIN CONNECTOR, GREEN



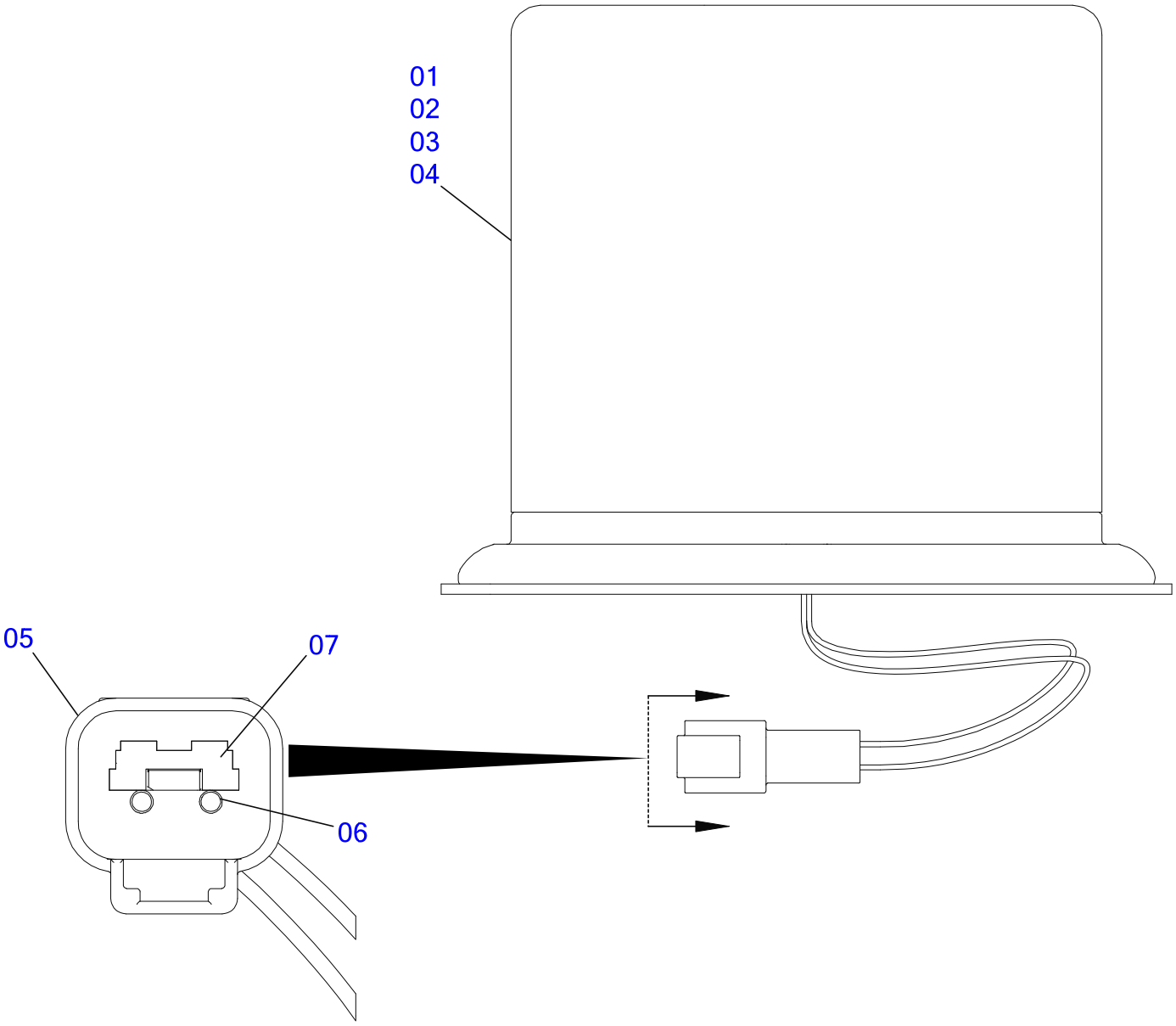
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STROBE LIGHT, 2 PIN CONNECTOR

STROBE LIGHT, 2 PIN CONNECTOR, GREEN

Item	Part No.	Description	Qty.
	R111234F2	STROBE LIGHT, 2 PIN CONNECTOR, GREEN	
01		NOT USED	
02	R111235D2	▪ LED BEACON, 12/24VDC, Green	1
03		NOT USED	
04		NOT USED	
05	R84897D1	▪ CONNECTOR, Receptacle	1
06	R84897D5	▪ PIN, Receptacle	2
07	R84897D3	▪ WEDGE LOCK, Receptacle	1

STROBE LIGHT, 2 PIN CONNECTOR, BLUE



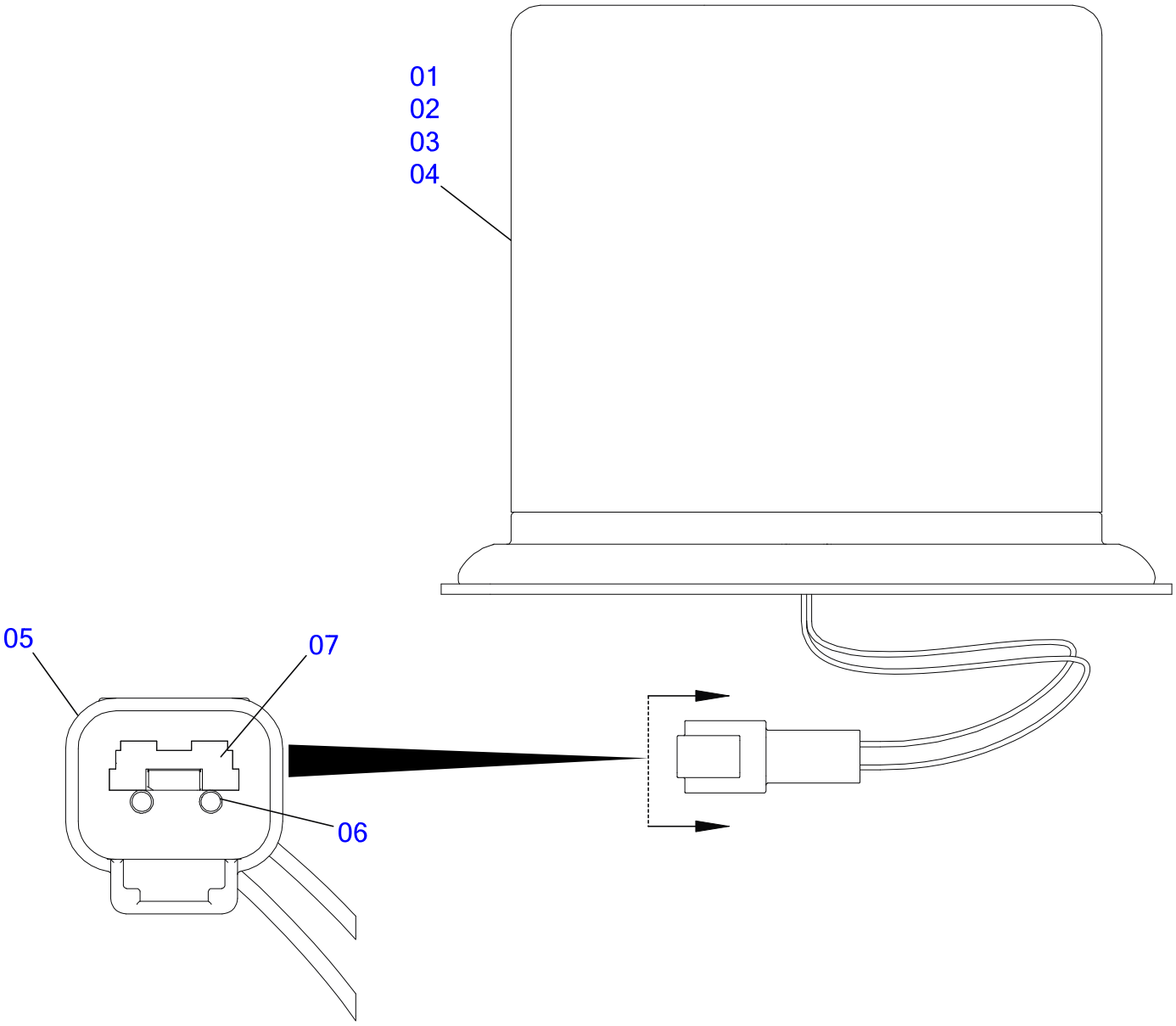
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STROBE LIGHT, 2 PIN CONNECTOR

STROBE LIGHT, 2 PIN CONNECTOR, BLUE

Item	Part No.	Description	Qty.
	R111234F3	STROBE LIGHT, 2 PIN CONNECTOR, BLUE	
01		NOT USED	
02		NOT USED	
03	R111235D3	▪ LED BEACON, 12/24VDC, Blue	1
04		NOT USED	
05	R84897D1	▪ CONNECTOR, Receptacle	1
06	R84897D5	▪ PIN, Receptacle	2
07	R84897D3	▪ WEDGE LOCK, Receptacle	1

STROBE LIGHT, 2 PIN CONNECTOR, AMBER



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STROBE LIGHT, 2 PIN CONNECTOR

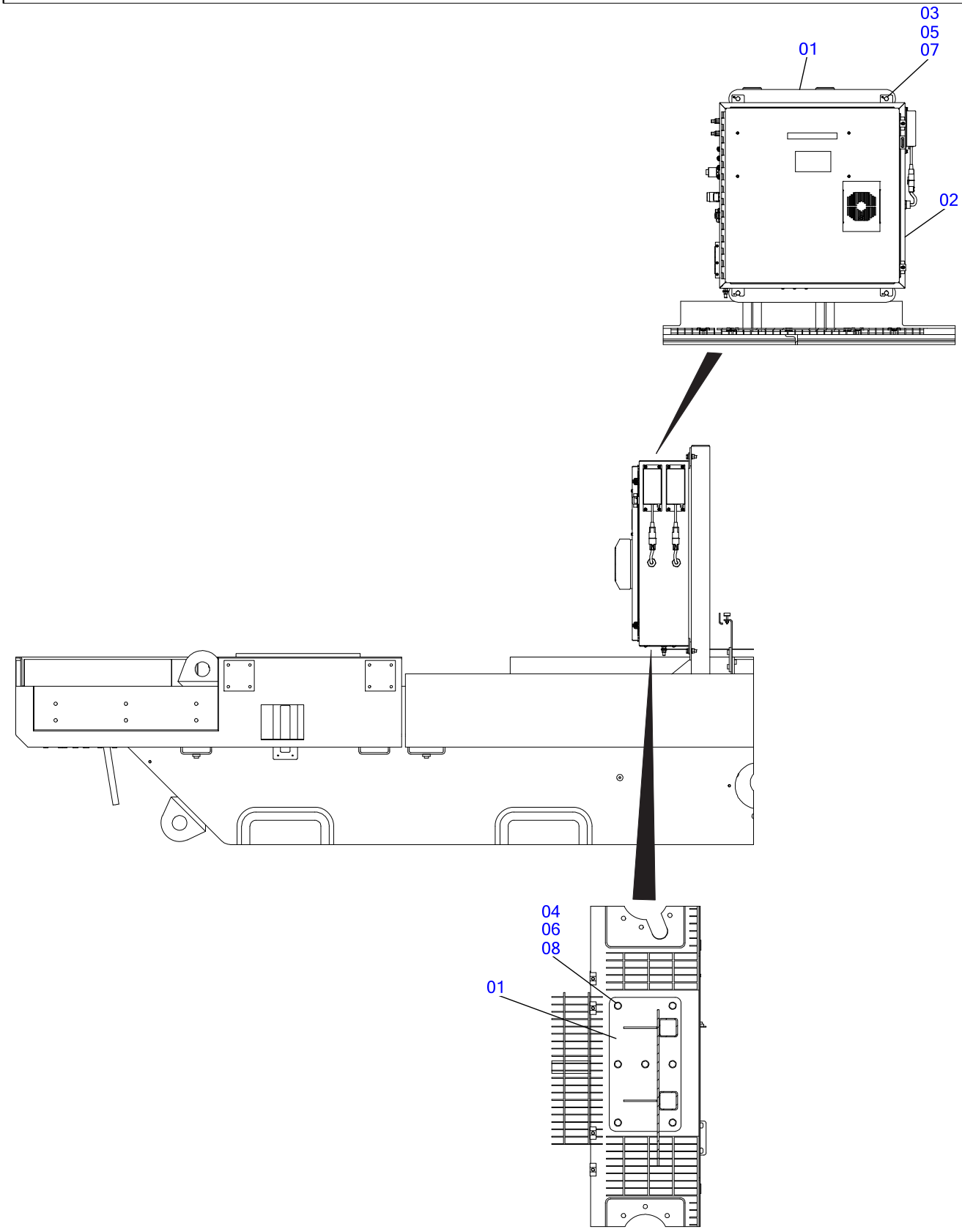
STROBE LIGHT, 2 PIN CONNECTOR, AMBER

Item	Part No.	Description	Qty.
	R111234F4	STROBE LIGHT, 2 PIN CONNECTOR, AMBER	
01		NOT USED	
02		NOT USED	
03		NOT USED	
04	R111235D4	・LED BEACON, 12/24VDC, Amber	1
05	R84897D1	・CONNECTOR, Receptacle	1
06	R84897D5	・PIN, Receptacle	2
07	R84897D3	・WEDGE LOCK, Receptacle	1

INSTALLATION, TELE-OP CABLE (Not Illustrated)

Item	Part No.	Description	Qty.
	R111038F5502	INSTALLATION, TELE-OP CABLE (Not Illustrated)	
CBL19AC-252	R112028D800	・CABLE	1
CBL20E-142	R112026D1200	・CABLE	1
CBL20E-162	R112026D1000	・CABLE	1
CBL20S-042	R112027D1200	・CABLE	1
CBL20S-122	R112027D1000	・CABLE	1
CBL20T-022	R90656T10D1300	・CABLE	2
CBL20T-162	R112061D600	・CABLE	1
CBL25A-021	R112056D600	・CABLE	1

INSTALLATION, AUTOMATION CONTROL PANEL



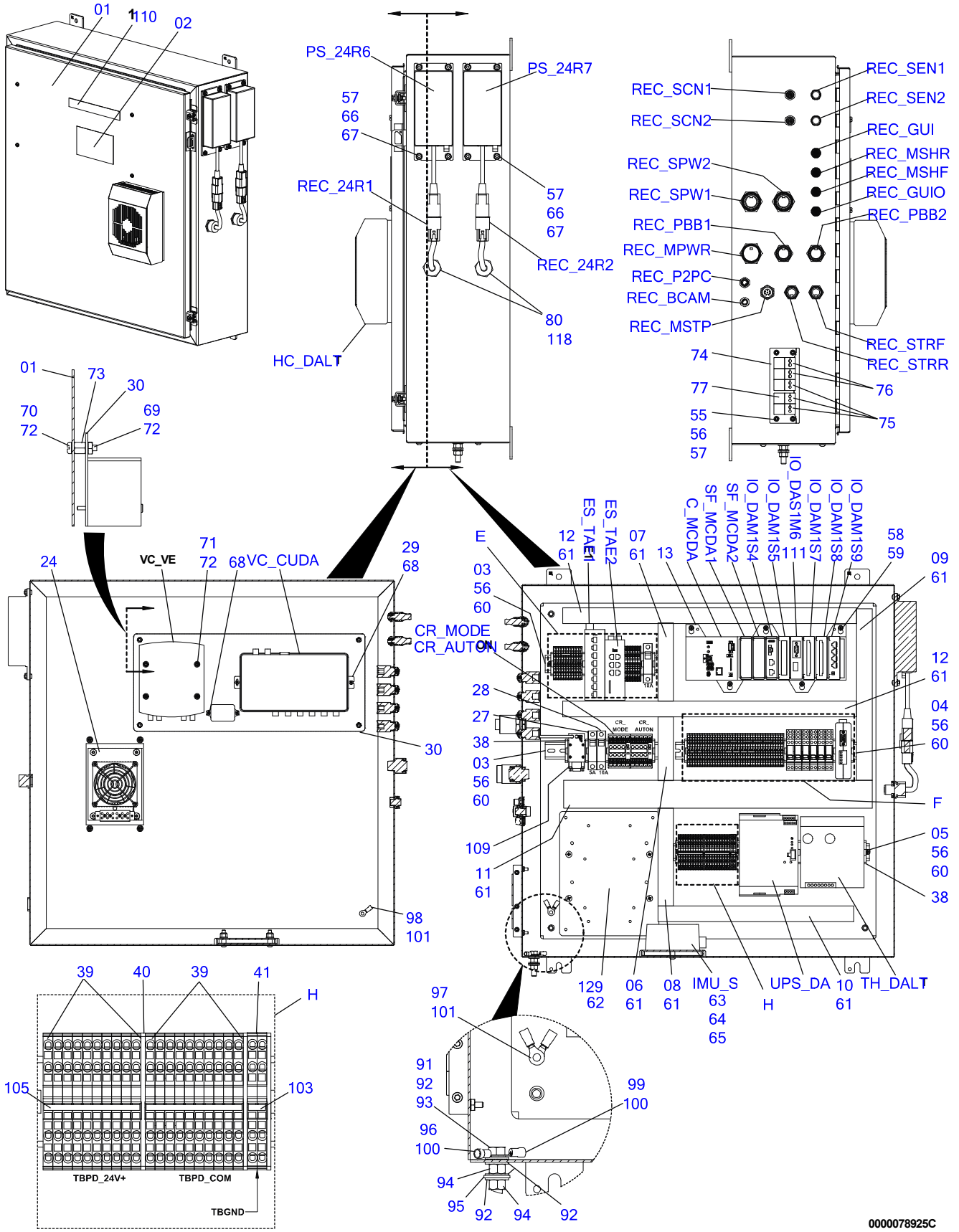
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INSTALLATION, CONTROL PANEL - AUTOMATION

INSTALLATION, AUTOMATION CONTROL PANEL

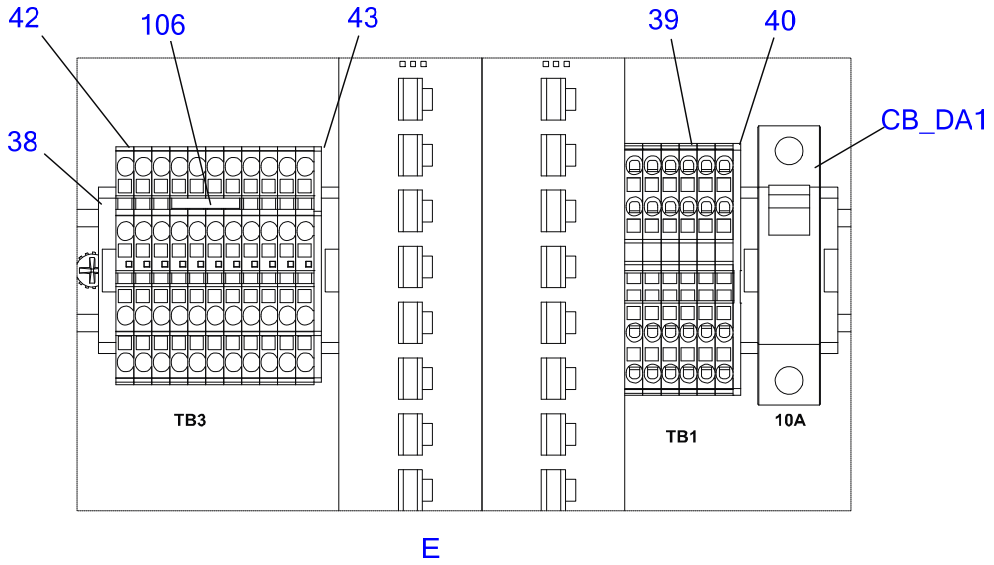
Item	Part No.	Description	Qty.	Page
	R113857F1	INSTALLATION, CONTROL PANEL - AUTOMATION		
01	R109066D1	▪ STAND, TELE-OP I/O Weldment	1	
02	R110810F1	▪ ENCLOSURE, Drill Auto	1	207
03	0825M10035	▪ BOLT, Hex Hd	4	
04	0825M16065	▪ BOLT, Hex Hd	7	
05	2104M010	▪ NUT, Hex	4	
06	2104M016	▪ NUT, Hex	7	
07	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	8	
08	3648M016	▪ WASHER, Hardened	14	
09	R111038F5500	▪ INSTALLATION, Automation Control Panel Cable (Not Shown)	1	208
		DRILL AUTOMATION PANEL SCHEMATICS	1	

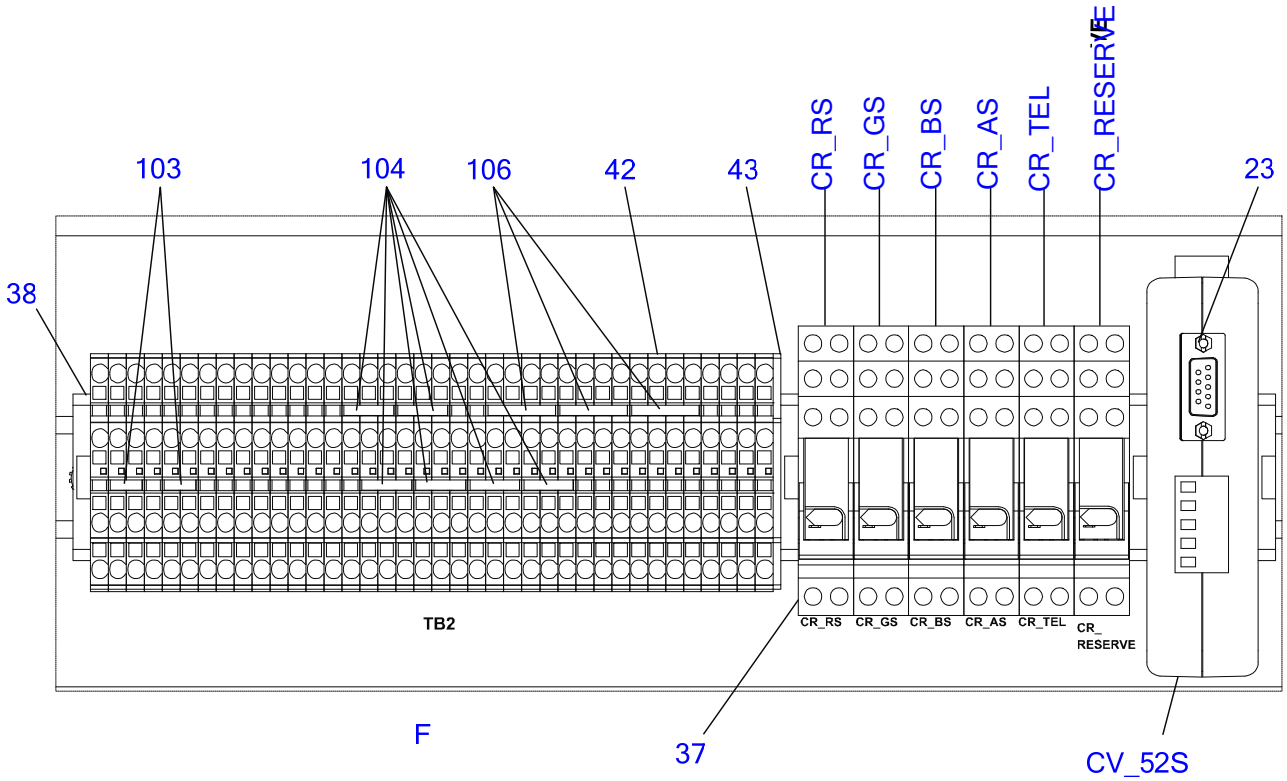
ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)



ENCLOSURE ASSEMBLY, DRILL AUTOMATION

ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)





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KOMATSU

ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)

Item	Part No.	Description	Qty.	Unit
	R110810F1	ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)		
	R109981F1	· PANEL ASSEMBLY, DRILL AUTOMATION (UNPROGRAMMED)		
01	R109331D1	· · ENCLOSURE	1	
02	R83829D1	· · DECAL, Warning, Voltage Present	1	
03	R105898D23	· · RAIL, Mounting	2	
04	R105898D37	· · RAIL, Mounting	1	
05	R105898D40	· · RAIL, Mounting	1	
06	R107535D13	· · DUCT, Wire	1	
07	R107535D16	· · DUCT, Wire	1	
08	R107535D20	· · DUCT, Wire	1	
09	R107535D35	· · DUCT, Wire	1	
10	R107535D38	· · DUCT, Wire	1	
11	R107536D62	· · DUCT, Wire	1	
12	R107535D60	· · DUCT, Wire	2	
13	R96424D1	· · MOUNTING KIT, Panel (Includes Mounting Plate and Screws)	1	
C_MCDA	R91986D2	· · CONTROLLER, Automation	1	
SF_MCDA1	R4260947	· · MODULE, Blank Filler	1	
SF_MCDA2	R4260947	· · MODULE, Blank Filler	1	
IO_DAS1M6	R4258752	· · MODULE, VCU 2 Port CAN	1	
IO_DAM1S4	R92454D1	· · CARD, Profinet, Slave	1	
IO_DAM1S5	R110560D1	· · MODULE, Digital Input/Output	1	
IO_DAM1S7	R110562D1	· · MODULE, Digital Output	1	
IO_DAM1S8	R110562D1	· · MODULE, Digital Output	1	
IO_DAM1S9	R110563D1	· · MODULE, Input/Output	1	
UPS_DA	R9001155F1	· · KIT, Power Supply, 24VDC	1	
	R117353D1	· · · POWER SUPPLY, 24VDC	1	
	R117353D2	· · · CABLE, USB (3m)	1	
		· · · CABLE, 14AWG, Black	1	
	208481290	· · · · CABLE, 14AWG, Black	10	Foot
CV_52S	R107261D1	· · CONVERTER, Signal	1	
23	R107264D1	· · GENDER CHANGER	1	
HC_DALT	R109022D1	· · COOLER, Enclosure	1	
TH_DALT	R110661D1	· · THERMOSTAT	1	
26		NOT USED		
27	R81153D6	· · BREAKER, Circuit - 1 Pole, 5 Amp	1	
28	R81153D10	· · BREAKER, Circuit - 1 Pole, 10 Amp	1	
CB_DA1	R81153D10	· · BREAKER, Circuit - 1 Pole, 10 Amp	1	
VC_CUDA	R95938D1	· · CONTROL UNIT	1	
	R95938D3	· · · HARNESS, Cable - w/ Power Filter	1	
	R95938D4	· · · CABLE, Splitter	1	

ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)

Item	Part No.	Description	Qty.	Unit
30	R110070D1	・・PLATE, Mounting	1	
VC_VE	R95746D1	・・ENCODER, Video	1	
IMU_S	R105072D1	・・SENSOR UNIT, Inertial Measurement	1	
33		NOT USED		
CR_AUTON	R92035D1	・・RELAY, Contactor	2	
CR_MODE	R92036D1	・・RELAY, Auxiliary	2	
CR_AS	R90623D1	・・RELAY, 2-Pole	1	
CR_BS	R90623D1	・・RELAY, 2-Pole	1	
CR_GS	R90623D1	・・RELAY, 2-Pole	1	
CR_RS	R90623D1	・・RELAY, 2-Pole	1	
CR_TEL	R90623D1	・・RELAY, 2-Pole	1	
CR_RESERVE	R90623D1	・・RELAY, 2-Pole	1	
37	R90623D2	・・SOCKET, Relay	6	
38	R40118D11	・・STOP, End	16	
39	R110054D1	・・BLOCK, Terminal (Gray)	26	
40	R110054D2	・・PLATE, End (Terminal Block)	4	
41	R110054D3	・・BLOCK, Terminal (Green)	2	
42	R90745D1	・・BLOCK, Terminal (Spring Cage)	49	
43	R90745D2	・・COVER, End	2	
PS_24R6	R103862D1	・・CONVERTER, DC-DC	1	
PS_24R7	R103862D1	・・CONVERTER, DC-DC	1	
REC_GUI	R107772D1	・・CONNECTOR, Panel Mount	1	
REC_GUIO	R107772D1	・・CONNECTOR, Panel Mount	1	
REC_MSHF	R107772D1	・・CONNECTOR, Panel Mount	1	
REC_MSHR	R107772D1	・・CONNECTOR, Panel Mount	1	
REC_P2PC	R110073D1	・・RECEPTACLE, w/ Cable	1	
REC_MSTP	R110074D1	・・RECEPTACLE, w/ Cable	1	
REC_STRF	R110075D1	・・RECEPTACLE, w/ Cable	1	
REC_STRR	R110075D1	・・RECEPTACLE, w/ Cable	1	
REC_PBB1	R110076D1	・・RECEPTACLE, w/ Cable	1	
REC_PBB2	R110076D1	・・RECEPTACLE, w/ Cable	1	
REC_MPWR	R110077D1	・・RECEPTACLE, w/ Cable	1	
REC_SPW1	R110078D1	・・RECEPTACLE, w/ Cable	1	
REC_SPW2	R110078D1	・・RECEPTACLE, w/ Cable	1	
REC_SCN1	R110079D1	・・RECEPTACLE, w/ Cable	1	
REC_SCN2	R110079D1	・・RECEPTACLE, w/ Cable	1	
53		NOT USED		
54	R110675D1	・・RECEPTACLE, w/ Cable	1	
55	0630V006	・・SCREW, Socket Head Cap	4	
56	18Z2936D6	・・WASHER, Lock, External Tooth	23	

ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)

Item	Part No.	Description	Qty.	Unit
57	2136V005	・・NUT, Hex	12	
58	0856V055	・・SCREW, Pan Hd Mach	21	
59	18Z2936D5	・・WASHER, Lock, External Tooth	5	
60	0856V064	・・SCREW, Pan Hd Mach	20	
61	20Z1684D1	・・RIVET, Flat Hd	54	
62	0856V109	・・SCREW, Pan Hd Mach	4	
63	3631V005	・・WASHER, Plain	3	
64	0737V025	・・SCREW, Button Hd Socket	3	
65	20H1614D2	・・NUT, Self-Locking	3	
66	3631V004	・・WASHER, Plain	8	
67	0856V066	・・SCREW, Pan Hd Mach	8	
68	0856V052	・・SCREW, Pan Hd Mach	4	
69	2137V005	・・NUT, Hex	4	
70	0863V092	・・SCREW, Pan Hd Mach	4	
71	0830V010	・・SCREW, Socket Head Cap	4	
72	18Z733D7	・・WASHER, Lock, Internal Tooth	12	
73	R110072D1	・・STANDOFF	4	
74	R105567D1	・・FRAME, Grommet	1	
75	R105614D5	・・GROMMET, Dual	3	
76	R105614D6	・・GROMMET, Dual	2	
77	R105592D18	・・GROMMET, Blind	5	
78	R110129D1	・・CABLE, Serial (Not Shown)	1	
79	R110130D1	・・CABLE, Serial (Not Shown)	1	
80	85Z24D4	・・GRIP, Cord	2	
REC_24R1	R110101D1	・・CABLE, w/ Plug	1	
REC_24R2	R110101D1	・・CABLE, w/ Plug	1	
82	R88752D3	・・CABLE, Data (Not Shown)	1	
83	R89522D100	・・CABLE, Communication (Not Shown)	2	
84	R110666D1	・・CABLE, w/ Plug (Not Shown)	1	
85-90		NOT USED		
91	20H3531D59	・・BOLT, Tap	1	
92	3631V007	・・WASHER, Plain	4	
93	18Z2936D10	・・WASHER, Lock, External Tooth	1	
94	20Q270D24	・・NUT, Hex	2	
95	R72153D1	・・STRAP, Ground	1	
96	79Q242D108	・・TERMINAL, Insulated	1	
97	79Q242D104	・・TERMINAL, Insulated	2	
98	79Q242D107	・・TERMINAL, Insulated	1	
99	79Q242D105	・・TERMINAL, Insulated	1	
100		・・CABLE, 10AWG, Green	1	

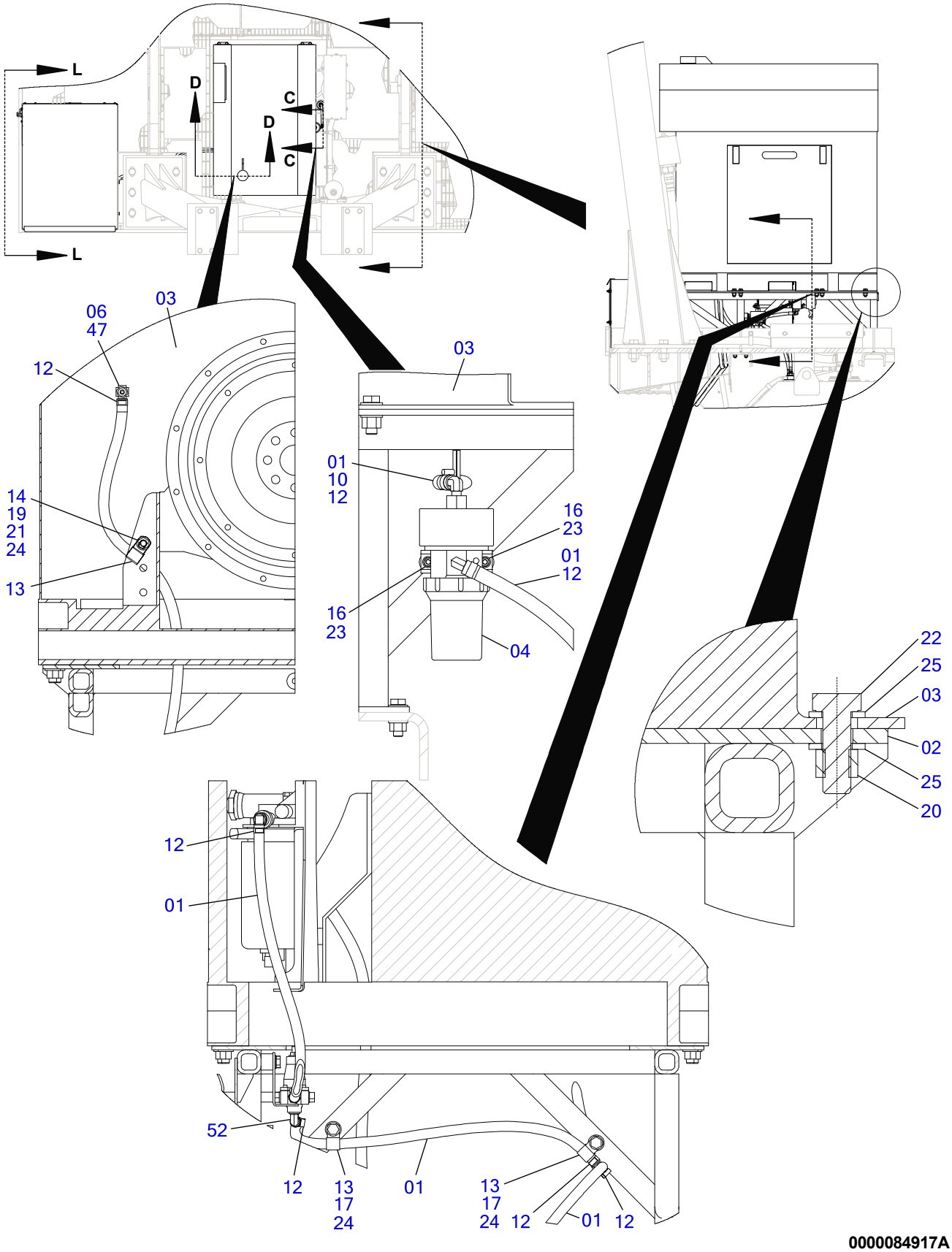
ENCLOSURE, DRILL AUTOMATION (PROGRAMMED)

Item	Part No.	Description	Qty.	Unit
	208481415	・・・CABLE, 10AWG, Green	3	Foot
101		・・CABLE, 14AWG, Green	1	
	208481294	・・・CABLE, 14AWG, Green	12	Foot
102		・・CABLE, 14AWG, Black (Not Shown)	1	
	208481290	・・・CABLE, 14AWG, Black	150	Foot
103	R90732D1	・・BRIDGE, Plug-In, 2 Position	5	
104	R90732D2	・・BRIDGE, Plug-In, 3 Position	6	
105	R90732D5	・・BRIDGE, Plug-In, 10 Position	2	
106	R90732D3	・・BRIDGE, Plug-In, 4 Position	4	
107	20Z1497D7	・・RETAINER, Tie Pad (Not Shown)	16	
108	32Z890D1	・・TIE, Wire (Not Shown)	20	
109	R4282757	・・CARD, Machine Identification Key	1	
110	R110248D1	・・NAMEPLATE, Drill Automation	1	
111	R105526D1	・・RESISTOR, 120Ω	1	
112	R102663D20	・・MARKER, Terminal Block (1-10) - Not Shown	5	
113	R102663D21	・・MARKER, Terminal Block (11-20) - Not Shown	3	
114	R102663D22	・・MARKER, Terminal Block (21-30) - Not Shown	4	
115	R102663D23	・・MARKER, Terminal Block (31-40) - Not Shown	3	
116	R102663D24	・・MARKER, Terminal Block (41-50) - Not Shown	3	
117	R102663D25	・・MARKER, Terminal Block (51-60) - Not Shown	1	
118	0944V002	・・LOCKNUT, Conduit	2	
ES_TAE1	R118643D1	・・SWITCH, Ethernet, 8 Port	1	
ES_TAE2	R121967D1	・・MODULE, Ethernet Router, 6Port	1	
121	R114095D1	・・BULKHEAD, Ethernet (Not Shown)	1	
122	R111452D30	・・CABLE, Ethernet (Not Shown)	4	
123	R122157D80	・・CABLE, Ethernet (Not Shown)	1	
124	R122157D100	・・CABLE, Ethernet (Not Shown)	1	
125	R111455D100	・・CABLE, Ethernet (Not Shown)	1	
126	R111455D140	・・CABLE, Ethernet (Not Shown)	1	
127	R110673D60	・・CABLE, Ethernet (Not Shown)	1	
REC_SEN1	R9002200D30	・・CABLE, Ethernet	1	
REC_SEN2	R9002200D30	・・CABLE, Ethernet	1	
129	R117817D2	・・PLATE, Mounting	1	

CABLE INSTALLATION, CONTROL PANEL, AUTOMATION (Not Illustrated)

Item	Part No.	Description	Qty.
	R111038F5500	CABLE INSTALLATION, CONTROL PANEL, AUTOMATION	
CBL10AE-152	R111962D800	▪ CABLE, 4 Pin	1
CBL15AG-033	R90651T10D800	▪ CABLE, 5 Pin	1
CBL20E-062	R112026D1300	▪ CABLE, 8 Pin	1
CBL20F-222	R112026D1300	▪ CABLE, 8 Pin	1
CBL20P-172	R90650T10D1300	▪ CABLE, 4 Pin	1

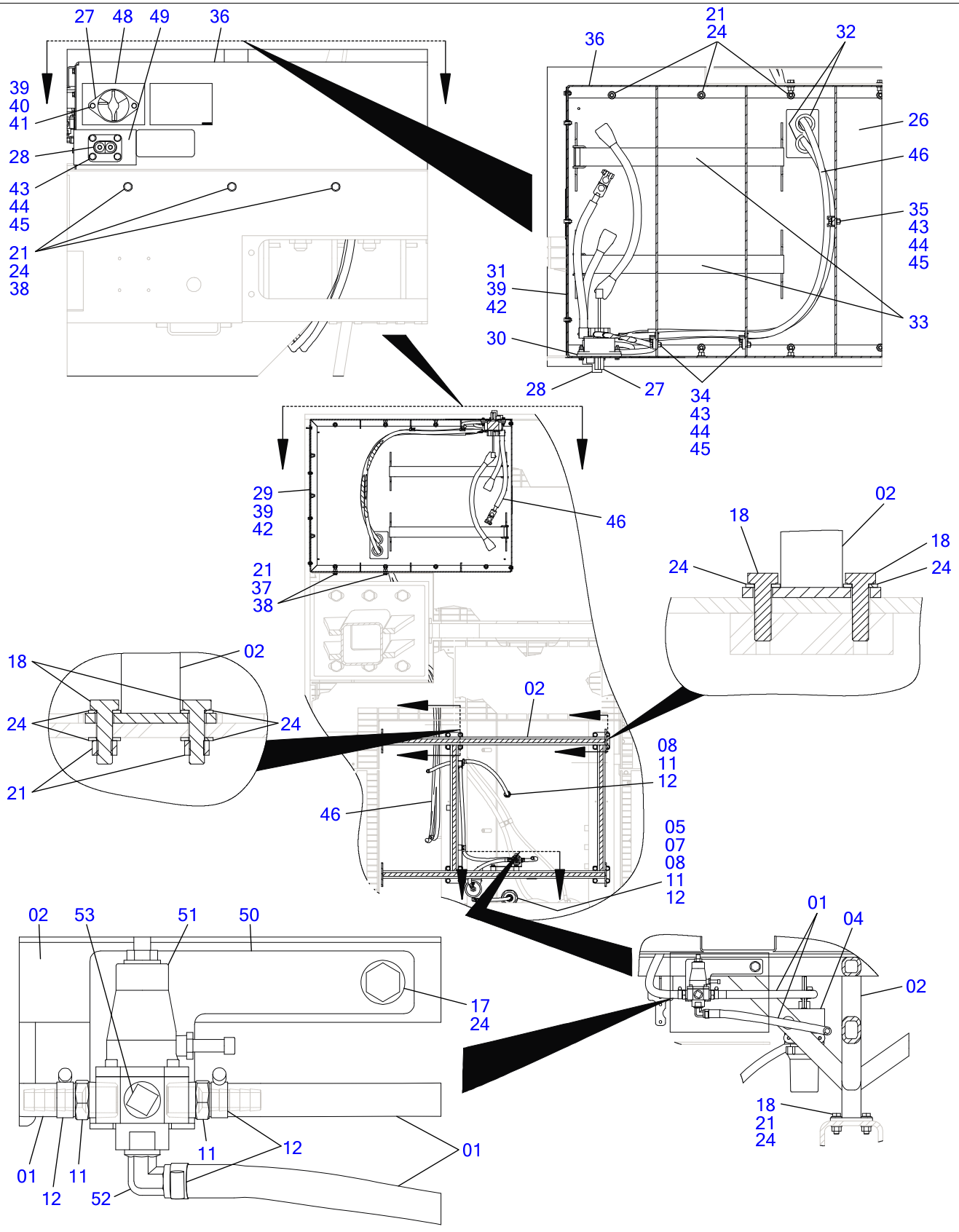
APU INSTALLATION, CUMMINS TIER 4



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APU INSTALLATION, CUMMINS TIER 4

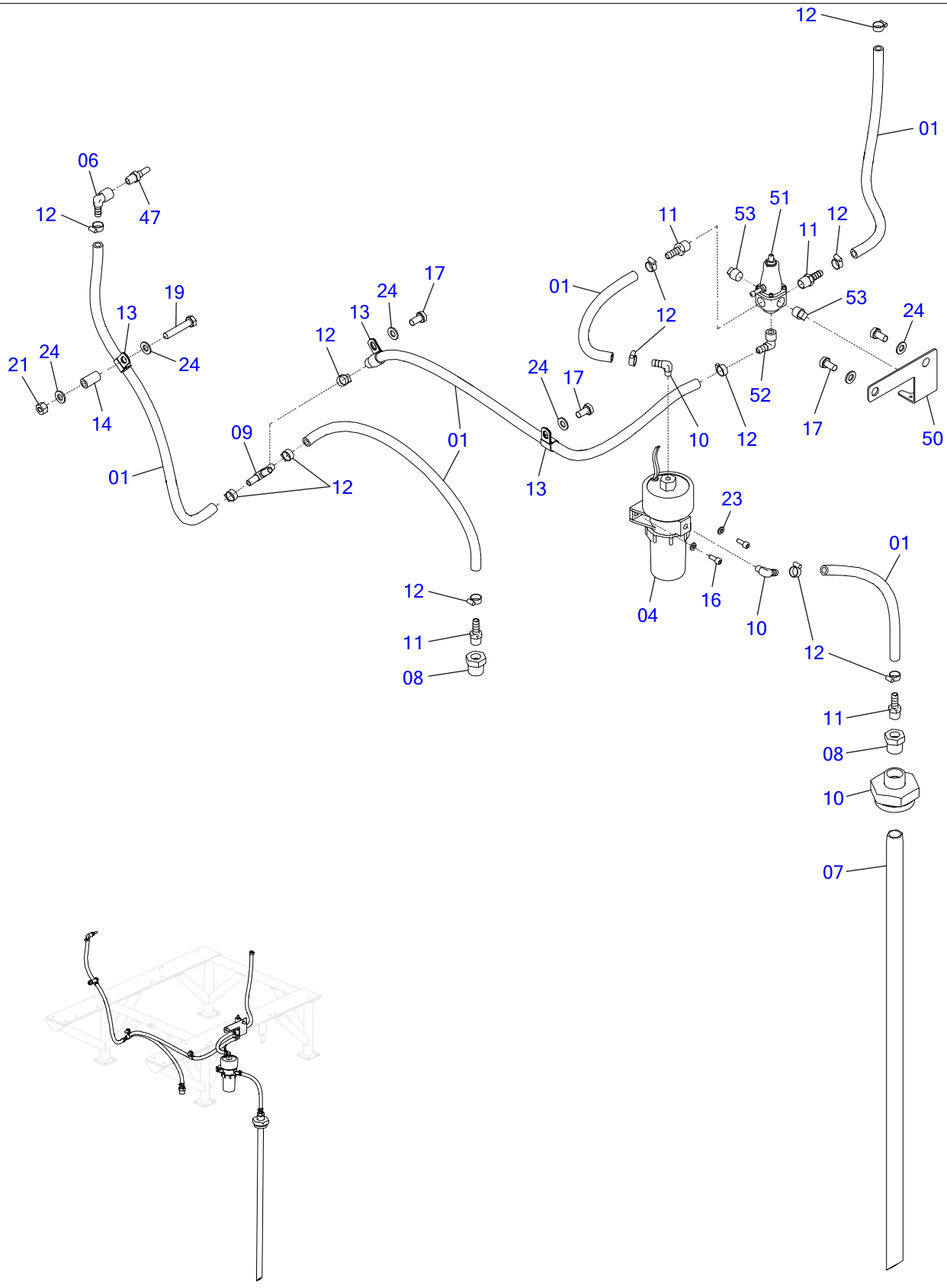
APU INSTALLATION, CUMMINS TIER 4



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APU INSTALLATION, CUMMINS TIER 4

APU INSTALLATION, CUMMINS TIER 4



APU INSTALLATION, CUMMINS TIER 4

KOMATSU

APU INSTALLATION, CUMMINS TIER 4

Item	Part No.	Description	Qty.	Page
	R121680F1	APU INSTALLATION, CUMMINS TIER 4		
01	R121680F1Y1	▪ HOSE, Low Pressure Fuel	1	
02	R107533D1	▪ STAND, APU	1	
03	R107443D2	▪ APU, Tier 4	1	210
04	R92956D1	▪ PUMP, Fuel	1	
05	R108429D1	▪ PLUG	1	
06	R118517D1	▪ ELBOW, 90 Degree Pipe/Hose	1	
07	R108778D1	▪ PIPE, Fuel Tank Port	1	
08	44Z826D9	▪ REDUCER, Pipe	2	
09	R74922D3	▪ FITTING, Hose Barb	1	
10	R99605D2	▪ ELBOW, 90 Degree Pipe/Hose	2	
11	R98508D14	▪ NIPPLE, Barbed Hose	4	
12	R96354D1	▪ CLAMP, Worm-Drive Hose	12	
13	32Z423D6	▪ CLAMP, Insulated	3	
14	R108772D30	▪ SPACER, Bolt	1	
15	R88249D1	▪ TIE, Wire (Not Shown)	5	
16	0630M06016	▪ SCREW, Socket Hd	2	
17	0825M10020	▪ BOLT, Hex Hd	4	
18	0825M10035	▪ BOLT, Hex Hd	16	
19	0825M10055	▪ BOLT, Hex Hd	1	
20	0825M12035	▪ BOLT, Hex Hd	12	
21	2104M010	▪ NUT, Hex	25	
22	2104M012	▪ NUT, Hex	12	
23	3648M006	▪ WASHER, Hardened	2	
24	3648M010	▪ WASHER, Hardened	30	
25	3648M012	▪ WASHER, Hardened	24	
26	R113305D1	▪ TRAY, APU Batteries	1	
27	R82608D2	▪ SWITCH, Rotary Disconnect	1	
28	R4163355	▪ RECEPTACLE, Jump Start	1	
29	R113307D1	▪ COVER, Battery Cabinet	1	
30	R112919D1	▪ GASKET, Battery Disconnect Switch	1	
31	R113307D2	▪ FRONT COVER, Battery Cabinet	1	
32	R98815D55	▪ GROMMET, Push-In	2	
33	R113379D1	▪ STRAP, Cinching	2	
34	R90641D1	▪ STANDOFF, Cable	2	
35	R88247D1	▪ MOUNT, Single	1	
36	R112818D1	▪ CABINET, APU Batteries	1	
37	3612M010	▪ WASHER, Plain	24	
38	0825M10030	▪ BOLT, Hex Hd	8	
39	3612M006	▪ WASHER, Plain	22	

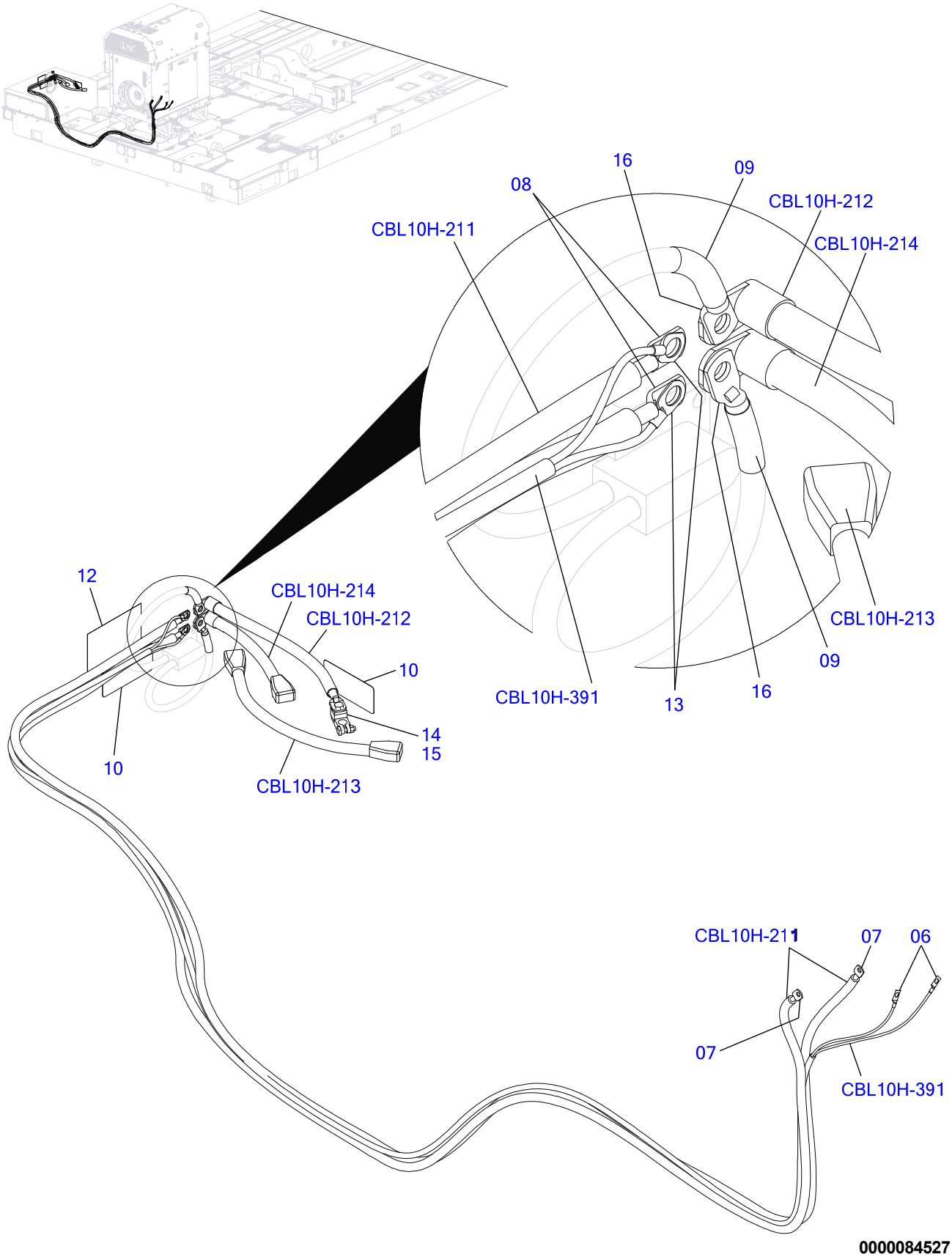
APU INSTALLATION, CUMMINS TIER 4

Item	Part No.	Description	Qty.	Page
40	2104M006	▪ NUT, Hex	2	
41	0825M06035	▪ BOLT, Hex Hd	2	
42	0825M06016	▪ BOLT, Hex Hd	17	
43	3612M008	▪ WASHER, Plain	14	
44	2104M008	▪ NUT, Hex	7	
45	0825M08025	▪ BOLT, Hex Hd	7	
46	R111038F5910	▪ CABLE INSTALLATION, APU	1	211
47	R118515D1	▪ FITTING, Quick Connect	1	
48	R118612D1	▪ DECAL, APU Starter Disconnect	1	
49	R118612D2	▪ DECAL, APU Jump Start Receptacle	1	
50	R119252D1	▪ MOUNTING BRACKET, Fuel Pressure Regulator	1	
51	R113785D1	▪ REGULATOR, Fuel	1	
52	R120988D1	▪ FITTING, Brass	1	
53	2446V003	▪ PLUG, Pipe	2	

APU, TIER 4

Item	Part No.	Description	Qty.
	R107443D2	APU, Tier IV	
01	R108919D1	▪ FILTER, Fuel - Stage 1	1
02	R108920D1	▪ FILTER, Fuel - Stage 2	1
04	R108922D1	▪ FILTER, Air - Primary	1
05	R108923D1	▪ FILTER, Air - Secondary	1
06	R108924D1	▪ BELT, Accessory Drive	1
07	R111159D1	▪ HEAD, Stage 1 Fuel Filter	1
08	R108921D2	▪ FILTER,OIL,LUBRICATING,CUMMINS	1

CABLE INSTALLATION, APU

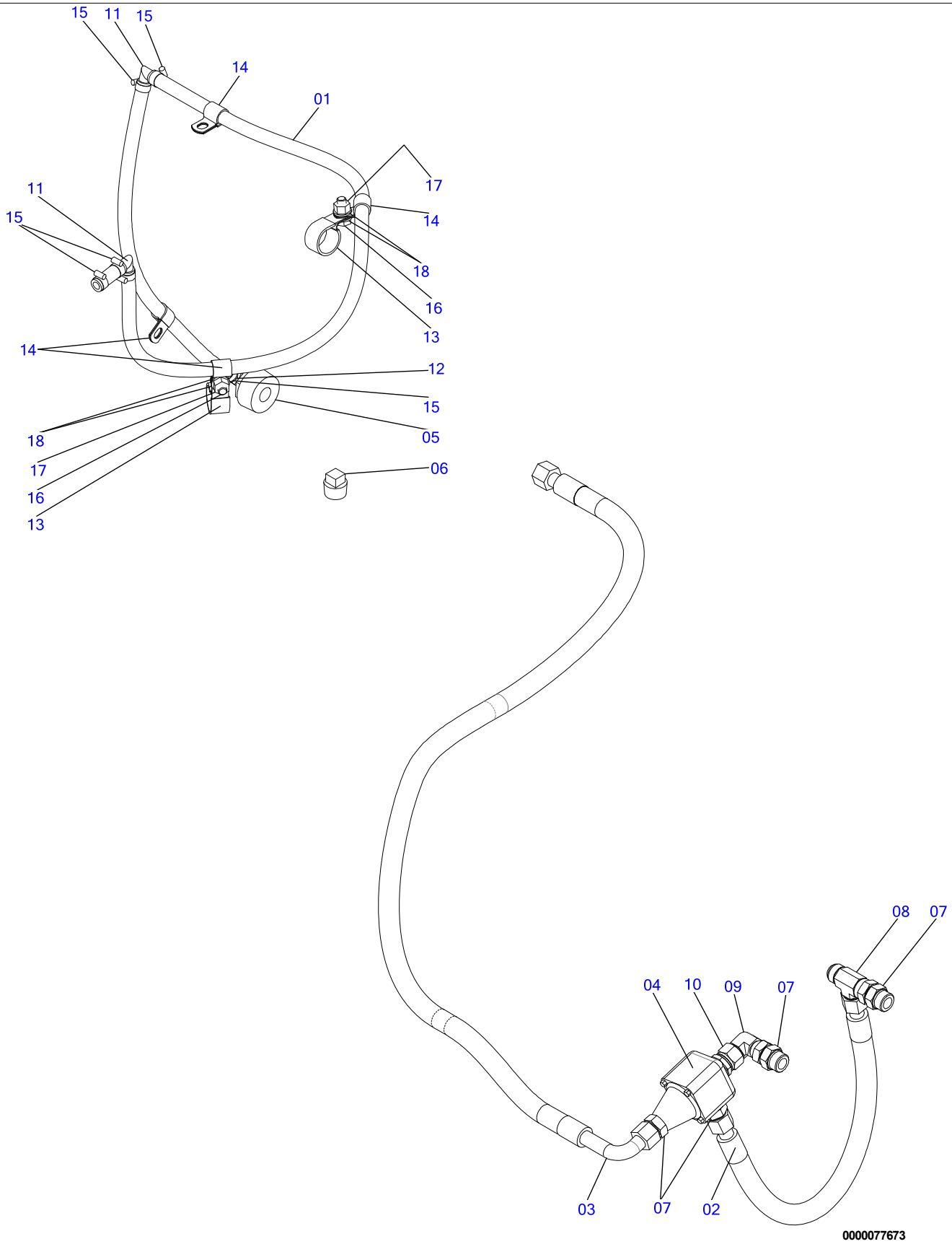


CABLE INSTALLATION, APU

CABLE INSTALLATION, APU

Item	Part No.	Description	Qty.
	R111038F5910	CABLE INSTALLATION, APU	1
CBL10H-391	R111038F5910Y1	・CABLE, 10 AWG, 3 Conductor	1
CBL10H-211	R111038F5910Y2	・CABLE, 1/0 AWG, Black	1
CBL10H-214	R113504F2	・CABLE, Battery, Negative	1
CBL10H-213	R113509F1	・CABLE, Battery, Jumper	1
CBL10H-212	R121681F1	・CABLE, Battery, Positive	1
06	R69438D3	・LUG, Solderless	2
07	79U2522D43	・LUG, Solderless	2
08	79U2522D44	・LUG, Solderless	2
09	R106336T9D2	・SHRINK TUBE	2
10	R89992D1	・DECAL, Warning, Electrical Hazard	2
11	R88249D1	・CABLE TIES, Heavy Duty (Not Shown)	15
12	R119623D1	・DECAL, Engine Warning, APU	1
13	79U2522D20	・LUG, Solderless	2
14	R119535D3	・FUSE, 400A	1
15	R119536D1	・FUSE HOLDER, Battery Mounted	1
16	79U2522D48	・LUG, Solderless	2

COLD WEATHER FUEL UPGRADE

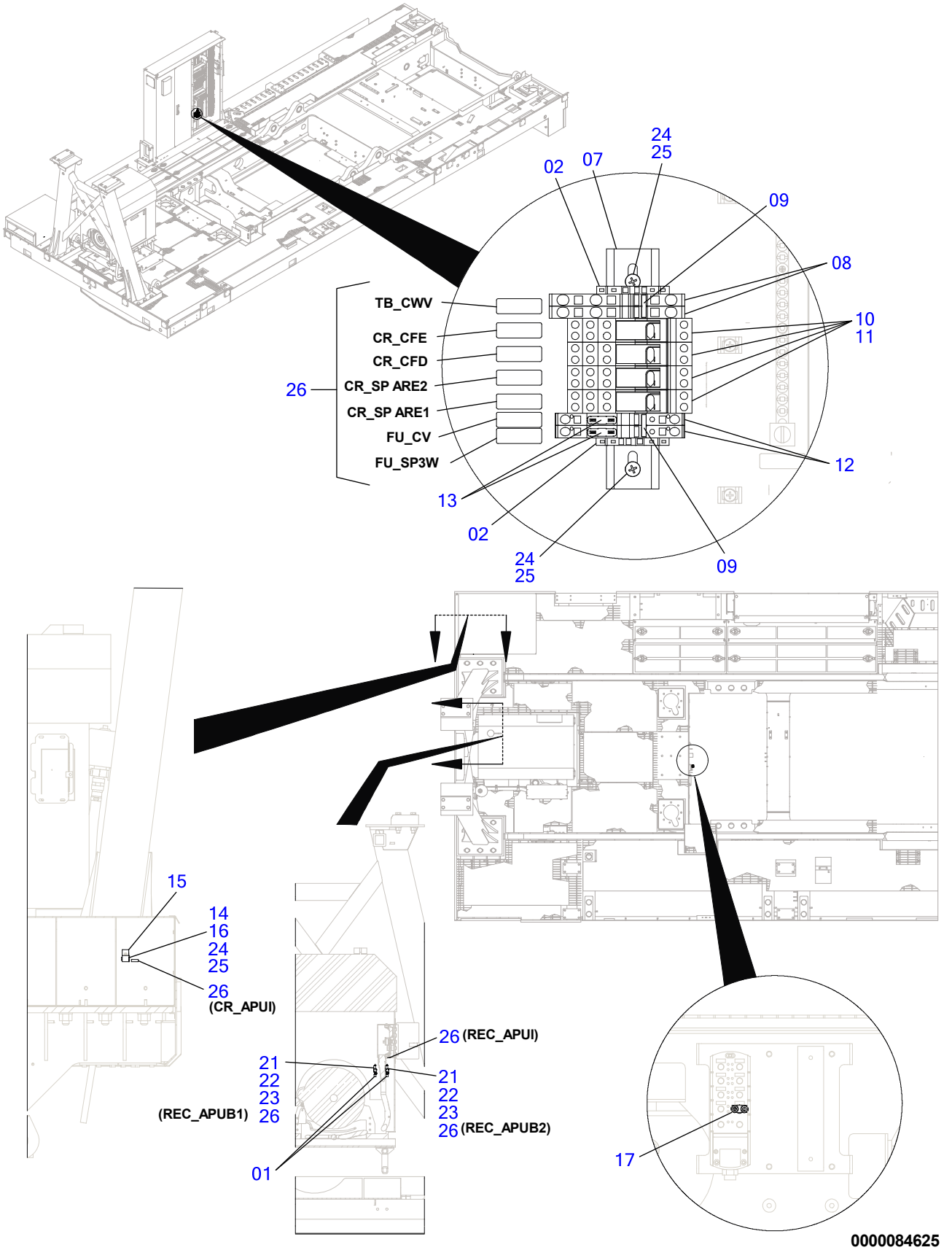


COLD WEATHER FUEL UPGRADE

COLD WEATHER FUEL UPGRADE

Item	Part No.	Description	Qty.	Unit
	R111964F3	COLD WEATHER FUEL UPGRADE		
01		・HOSE, Low Pressure Fuel	1	
	441065093	・・HOSE	7	Foot
02	R91786D33	・HOSE ASSEMBLY	1	
03	R89366D80	・HOSE ASSEMBLY	1	
04	R86692D1	・VALVE, 3-Way - Thermostatic Bypass	1	
05	2401V015	・BUSHING, Pipe	1	
06	2446V005	・PLUG, Pipe	1	
07	44Z485D17	・CONNECTOR	4	
08	44Z487D10	・TEE, Swivel	1	
09	44Z473D10	・ELBOW, 90 Degree Swivel	1	
10	44Z1181D5	・ADAPTOR	1	
11	R74921D3	・FITTING, 90 Degree Elbow	2	
12	R99605D4	・FITTING, Brass	1	
13	32Z423D26	・CLAMP, Insulated	2	
14	32Z423D6	・CLAMP, Insulated	4	
15	R96354D1	・CLAMP, Worm-Drive Hose	6	
16	0825M10025	・BOLT, Hex Hd	2	
17	2104M010	・NUT, Hex	2	
18	3648M010	・WASHER, Hardened	4	

ELECTRICAL CONTROLS INSTALLATION, 77XR COLD WEATHER

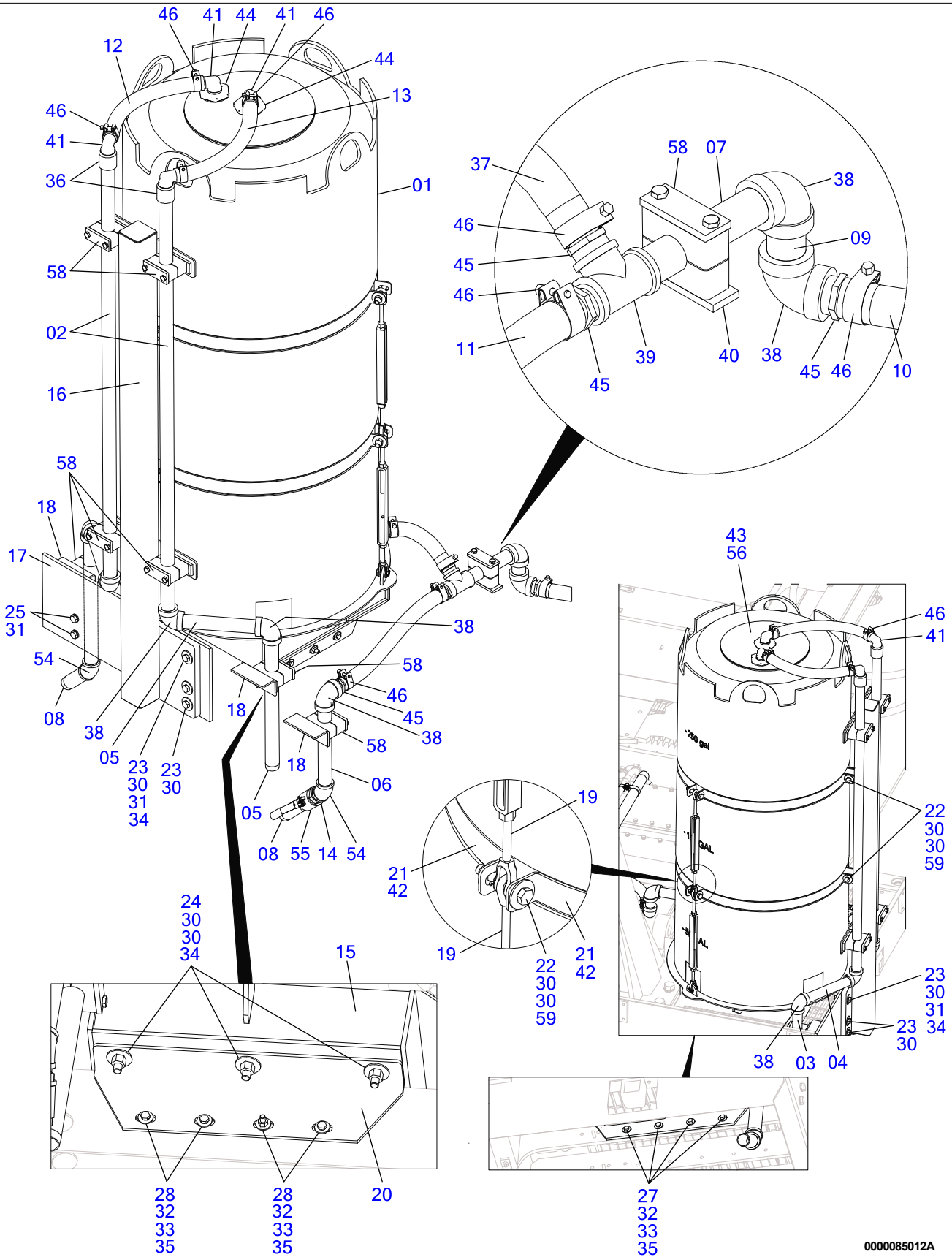


ELECTRICAL CONTROLS INSTALLATION, 77XR COLD WEATHER

ELECTRICAL CONTROLS INSTALLATION, 77XR COLD WEATHER

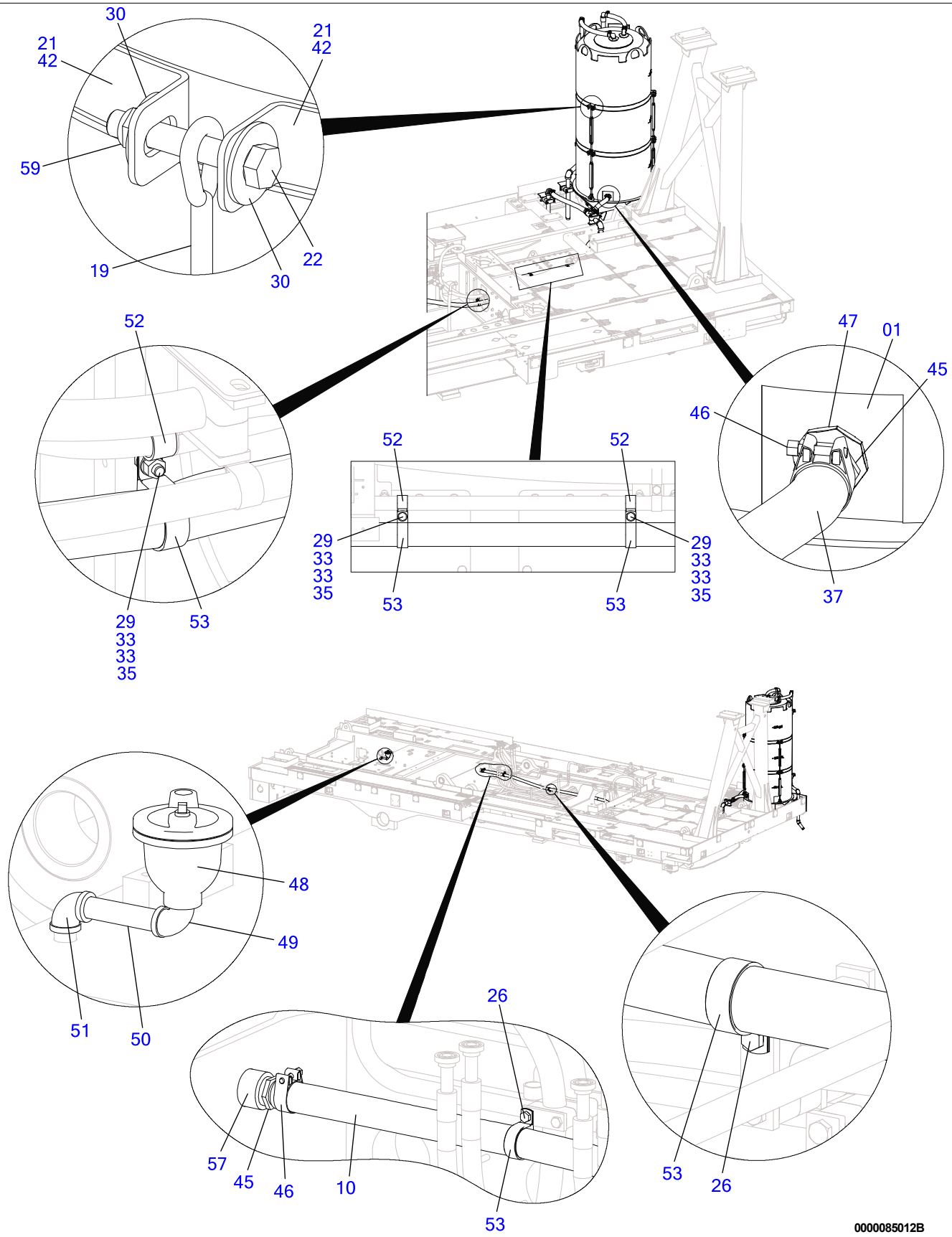
Item	Part No.	Description	Qty.
	R123617F1	ELECTRICAL CONTROLS INSTALLATION, 77XR COLD WEATHER	
01	R88494D600	▪ CABLE, Deutsch	2
02	R82712D1	▪ CLAMP, End	2
03	R123617F1Y3	▪ WIRE, 14AWG, Black (Not Shown)	1
04	R123617F1Y4	▪ WIRE, 14AWG, Black (Not Shown)	1
05	R123617F1Y5	▪ CABLE, 14AWG (Not Shown)	1
06	R90650T15D1220	▪ CABLE, 4-Pin	1
07	R105898D16	▪ DIN RAIL	1
08	R88487D1	▪ TERMINAL BLOCK	2
09	R82385D1	▪ BRIDGE, 2 Position Plug In	2
10	R90623D2	▪ RELAY, Remote E-Stop 2	4
11	R90623D1	▪ RELAY, Remote E-Stop 2	4
12	R80858D3	▪ BLOCK, Fused Terminal with LED	2
13	R82706D2	▪ FUSE, Blade, 2A, Gray	2
14	R4260949	▪ RELAY, Floor Condensor Fan 1	1
15	R4260950	▪ RELAY, 20A	1
16	R4260955	▪ RELAY, Floor Condensor Fan 1	5
17	R91485D1	▪ I/O MODULE, A-Frame, No.1	1
18	R108702D10	▪ GROMMET, Small (Not Shown)	1
19	R108702D12	▪ GROMMET, Small (Not Shown)	1
20	85Z24D2	▪ CORD GRIP (Not Shown)	1
21	R84897D1	▪ CONNECTOR, Receptacle, 2-Pin	2
22	R84897D3	▪ LOCKING WEDGE, Receptacle, 2-Pin	2
23	R84897D7	▪ CONTACT PIN, Receptacle	4
24	0856M05012	▪ SCREW, Pan Head	3
25	3612M005	▪ WASHER, Flat	3
26	R9001102D1	▪ DECALS, 77XR Cold Weather (Individual decals not sold separately.)	1

KIT, 300 GALLON WATER TANK



KIT, 300 GALLON WATER TANK

KIT, 300 GALLON WATER TANK



KIT, 300 GALLON WATER TANK

KIT, 300 GALLON WATER TANK

Item	Part No.	Description	Qty.
	R9001586F1	KIT, 300 GALLON WATER TANK	
01	R9001367D1	· WATER TANK, 300 Gallon	1
02	R9001593D178	· PIPE, Galvanized, NPT	2
03	R9001593D56	· PIPE, Galvanized, NPT	2
04	R9001593D31	· PIPE, Galvanized, NPT	1
05	R9001593D29	· PIPE, Galvanized, NPT	1
06	R9001593D36	· PIPE, Galvanized, NPT	1
07	R9001593D23	· PIPE, Galvanized, NPT	1
08	R9001593D15	· PIPE, Galvanized, NPT	2
09	R9001593D8	· PIPE, Galvanized, NPT	1
10	R9001586Y10	· HOSE, 1.5 ID, Low Pressure	1
11	R9001586Y11	· HOSE, 1.5 ID, Low Pressure	1
12	R9001586Y12	· HOSE, 1.5 ID, Low Pressure	1
13	R9001586Y13	· HOSE, 1.5 ID, Low Pressure	1
14	R9001593D4	· PIPE, Galvanized, NPT	1
15	R9001369D1	· BASE, Water Tank	1
16	R9001370D1	· TUBE, Water Tank Mounting	1
17	R9001584D1	· PLATE, Water Tank Tube Mounting	1
18	R9001582D1	· BASE, Clamp, 90 Degree	2
19	R9001368D1	· TURNBUCKLE	4
20	R9001583D1	· ANGLE, Water Tank Base Mounting	1
21	R9001371D1	· STRAP, Water Tank Retaining	6
22	0825M16100	· BOLT, Hex Hd	6
23	0825M16075	· BOLT, Hex Hd	6
24	0825M16055	· BOLT, Hex Hd	3
25	0825M16050	· BOLT, Hex Hd	2
26	0825M10070	· BOLT, Hex Hd	2
27	0825M10050	· BOLT, Hex Hd	4
28	0825M10040	· BOLT, Hex Hd	4
29	0825M10025	· BOLT, Hex Hd	3
30	3610M016	· WASHER, Oversized	24
31	3612M016	· WASHER, Plain	4
32	3610M010	· WASHER, Oversized	8
33	3612M010	· WASHER, Plain	14
34	2104M016	· NUT, Hex	5
35	2104M010	· NUT, Hex	11
36	R106061D8	· COUPLING, Stainless Steel	2
37	R9001586Y14	· HOSE, 1.5 ID, Low Pressure	1
38	2412V023	· ELBOW, 90 Degree	7
39	2425V008	· TEE, Pipe	1

KIT, 300 GALLON WATER TANK

Item	Part No.	Description	Qty.
40	R88707D4	· PLATE, Clamp	1
41	R9001588D1	· ELBOW, Male, 90 Degree	4
42	R9001585D1	· STRIP, Neoprene	2
43	R9001587D1	· COVER, Water Tank	1
44	R9001589D1	· FITTING, Tank Bulkhead	2
45	R9001590D1	· ADAPTER, Male	6
46	R84807D14	· CLAMP, T-Bolt	10
47	R9001591D1	· BUSHING, Reducing	1
48	R103749D1	· VALVE, Air Release	1
49	2416V020	· ELBOW, 90 Degree Street	1
50	2419V148	· NIPPLE, Pipe	1
51	2414V020	· ELBOW, 90 Degree	1
52	32Z423D25	· CLAMP, Insulated	3
53	32Z423D34	· CLAMP, Insulated	5
54	2414V008	· ELBOW, 45 Degree	2
55	36Q511D7	· VALVE, Locking Ball	1
56	R9001592D1	· SHEET, Neoprene	1
57	2435V008	· COUPLING, Pipe	1
58	R78952D19	· CLAMP, Tube	8
59	20Z1659D18	· NUT, Lock	6

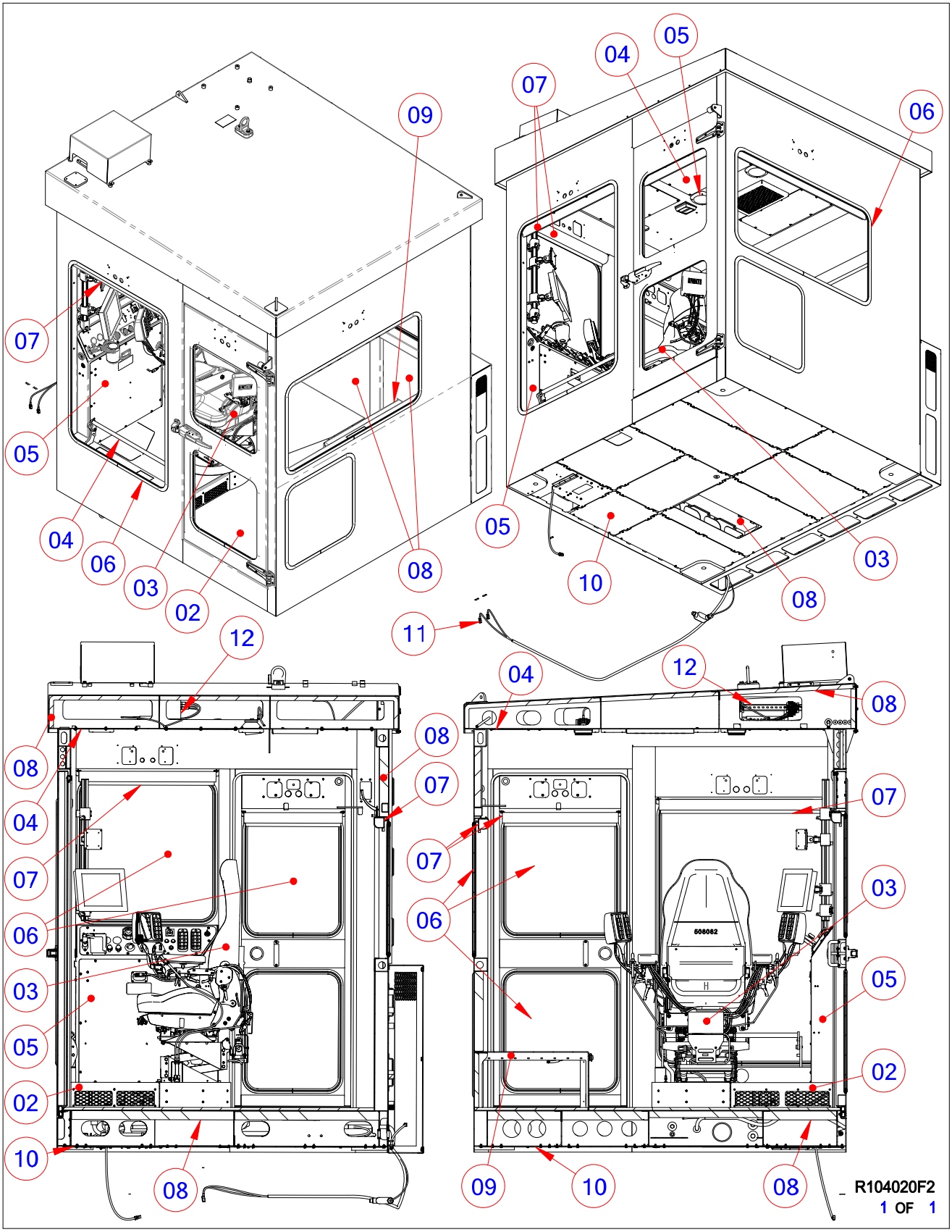
CAB AND REAR DECK

Item	Description	Page
01	MODULE, CAB WITH OPTIONS	216
02	REAR DECK	256
03	ELECTRICAL, REAR DECK	257
04	LIGHTING, REAR DECK	260
05	INSTALLATION, CAB TO REAR DECK	261
06	CABLE ASSEMBLY, REAR DECK	262
07	HANDRAIL INSTALLATION, REAR DECK, GPS	265
08	HARDWARE, REAR DECK	266
09	HVAC INSTALLATION, REAR DECK, STANDARD	267
10	DUST CONTAINMENT, REAR DECK	269
11	DUST CONTAINMENT, MAST, ANGLE	275
12	PLATFORM INSTALLATION, REAR DECK	278
13	INSTALLATION, DECK CRANE	279
14	ELECTRICAL, DECK CRANE	281
15	INSTALLATION, STAIR ASSEMBLY, REAR DECK	282
16	INSTALLATION, EGRESS STAIR ASSEMBLY, REAR DECK	285
17	INSTALLATION, BIT LUBE	286

MODULE, CAB WITH OPTIONS

Item	Description	Page
01	ASSEMBLY, STANDARD CAB	217
02	INSTALLATION, OPERATOR CAB HVAC - STANDARD	243
03	INSTALLATION, STEREO	244
04	ASSEMBLY, TRAINER SEAT	245
05	INSTALLATION, DELUXE JOYSTICKS	246
06	WINDSHIELD WIPER, OPERATOR CAB	249
07	INSTALLATION, AUTOMATION MONITOR AND HMI	251
08	INSTALLATION, TELE-OP	253
09	INSTALLATION, PTZ	255

DRILL CAB ASSEMBLY, STANDARD

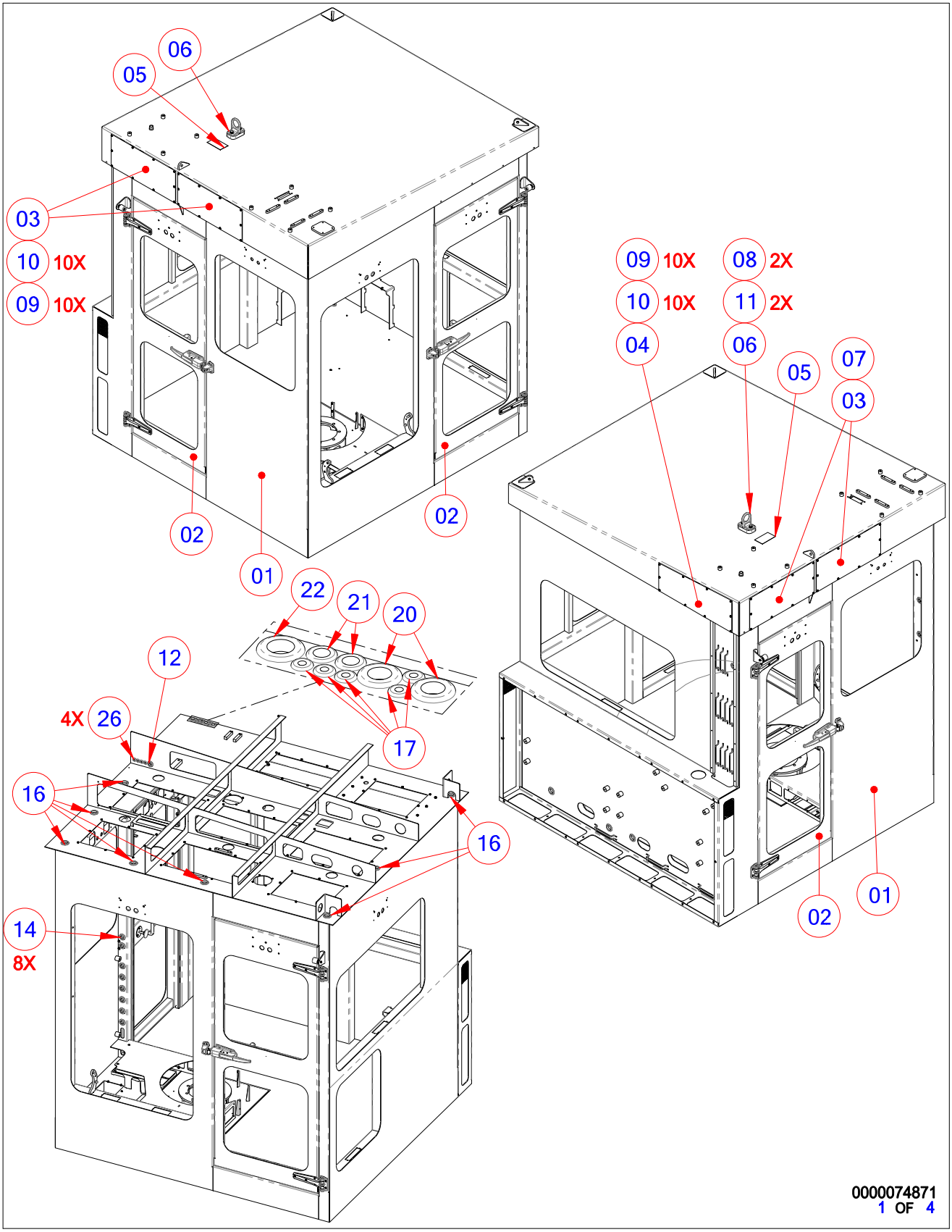


DRILL CAB ASSEMBLY, STANDARD

DRILL CAB ASSEMBLY, STANDARD

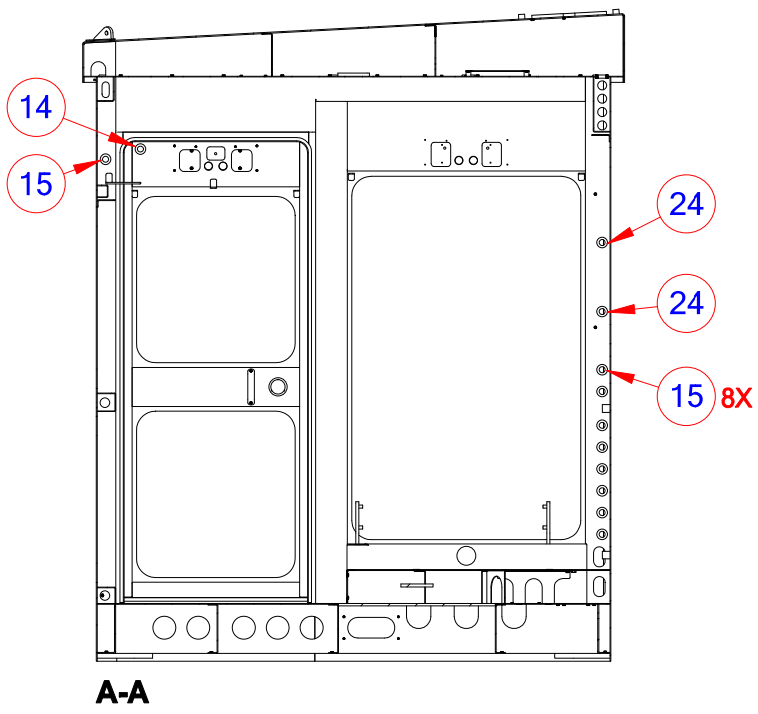
Item	Part No.	Description	Qty.	Page
	R104020F2	DRILL CAB ASSEMBLY, STANDARD		
01	R104021F1	▪ STRUCTURE ASSEMBLY, Cab	1	218
02	R101228F1	▪ INSTALLATION, Flooring - Operator Cab	1	220
03	R103668F1	▪ INSTALLATION, Seat	1	221
04	R102380F1	▪ INSTALLATION, Interior Trim	1	223
05	R109262F2	▪ INSTALLATION, Electrical Components, Cab	1	224
06	R94425F1	▪ WINDOW INSTALLATION, Operator Cab	1	232
07	R101017F1	▪ WINDOW SHADES, Operator Cab	1	233
08	R102337F1	▪ INSTALLATION, Insulation	1	234
09	R97560F1	▪ SHROUD ASSEMBLY, Refrigerator, Standard	1	235
10	R101293F1	▪ INSTALLATION, Cover Plates, Cab Bottom	1	236
11	R99696F4	▪ CABLE ASSEMBLY, Operator Cab - Standard	1	237
12	R103584F2	▪ INSTALLATION, Prevail	1	242

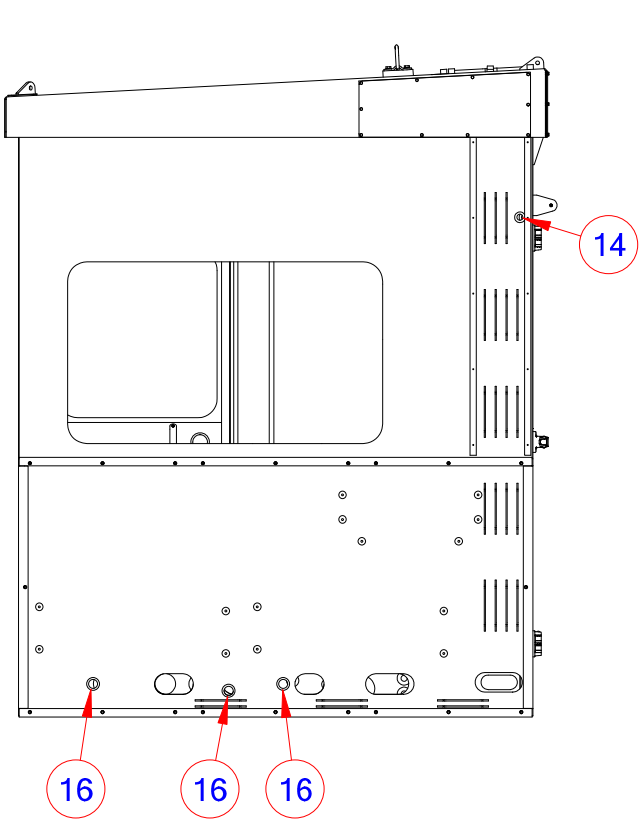
STRUCTURE ASSEMBLY, OPERATOR CAB

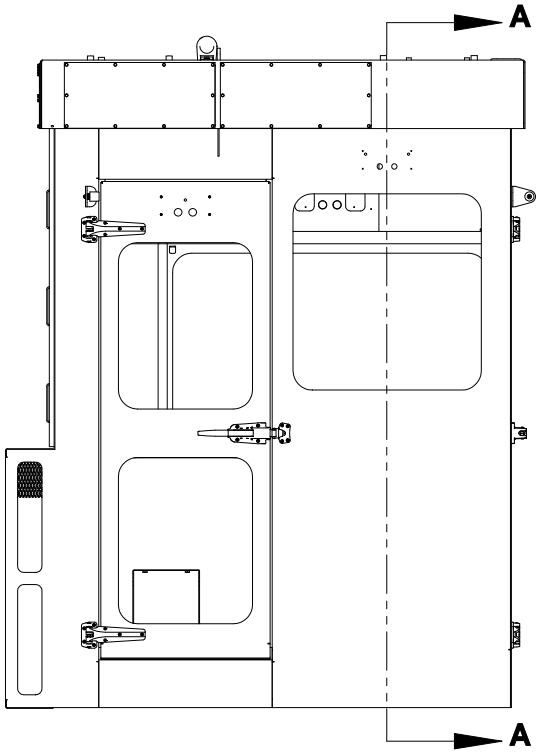


DRILL CAB ASSEMBLY - ISO TOP VIEW

STRUCTURE ASSEMBLY, OPERATOR CAB



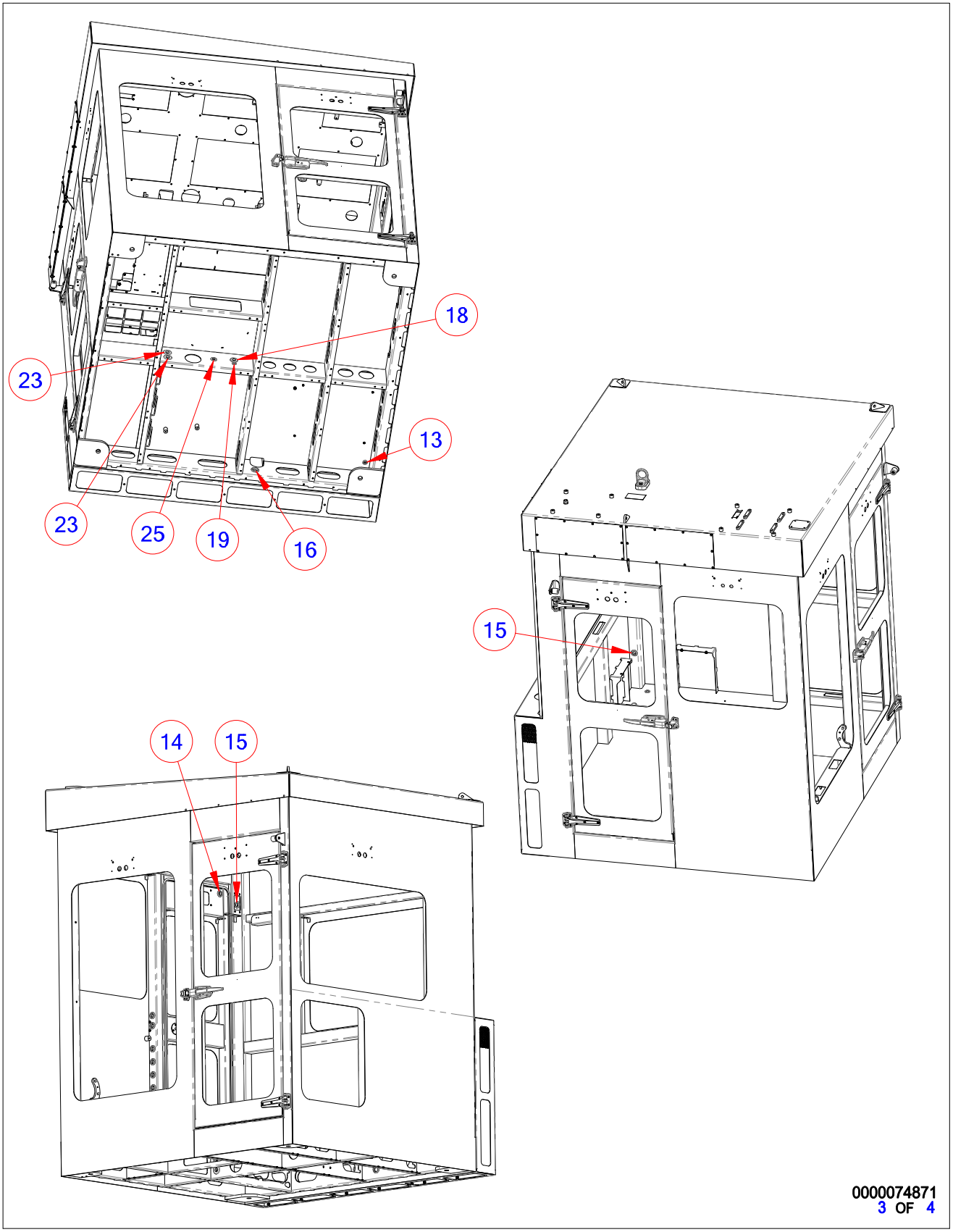




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2 OF 4

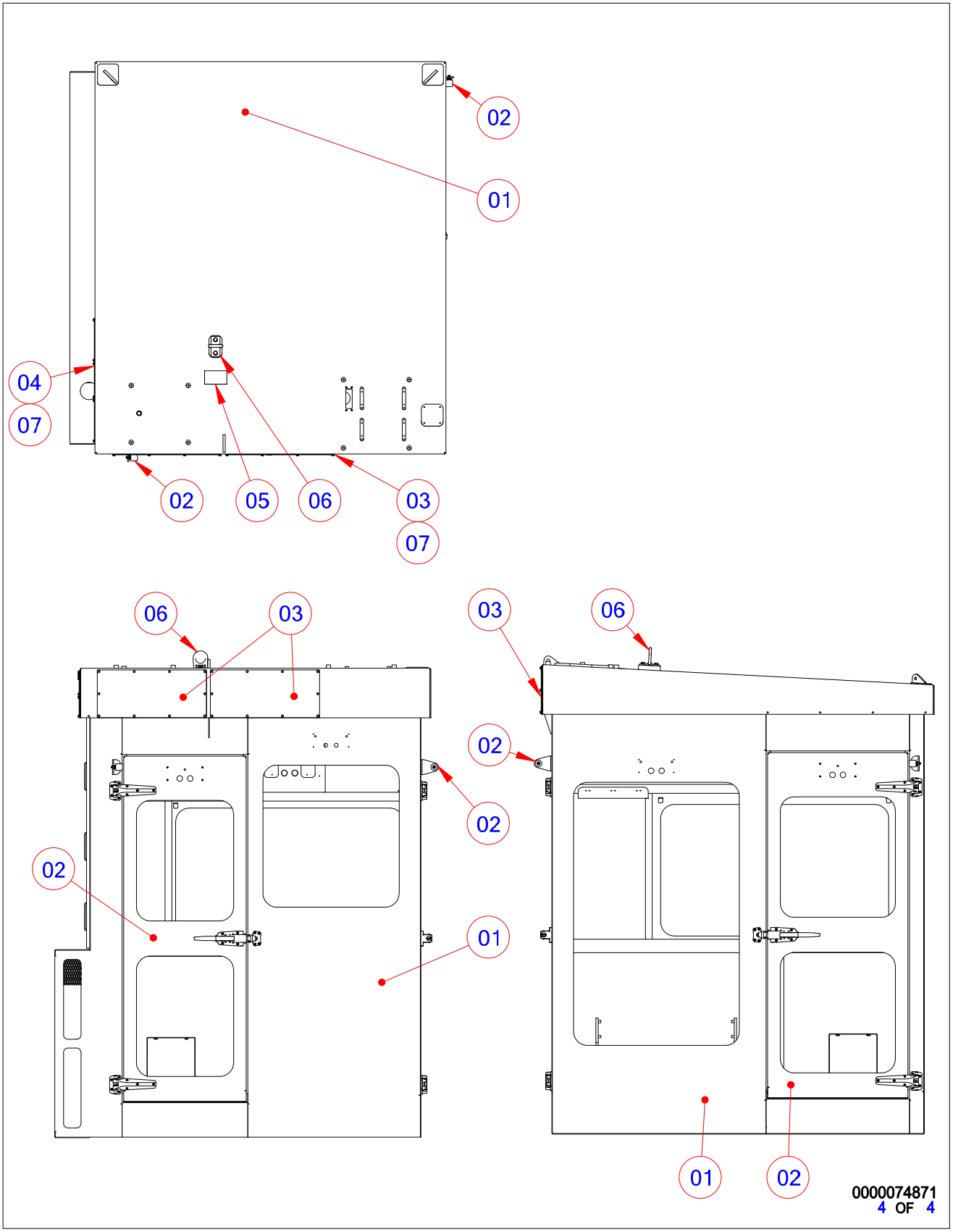
DRILL CAB ASSEMBLY - SIDE A

STRUCTURE ASSEMBLY, OPERATOR CAB



DRILL CAB ASSEMBLY - ISO BOTTOM

STRUCTURE ASSEMBLY, OPERATOR CAB



DRILL CAB ASSEMBLY - SIDE B

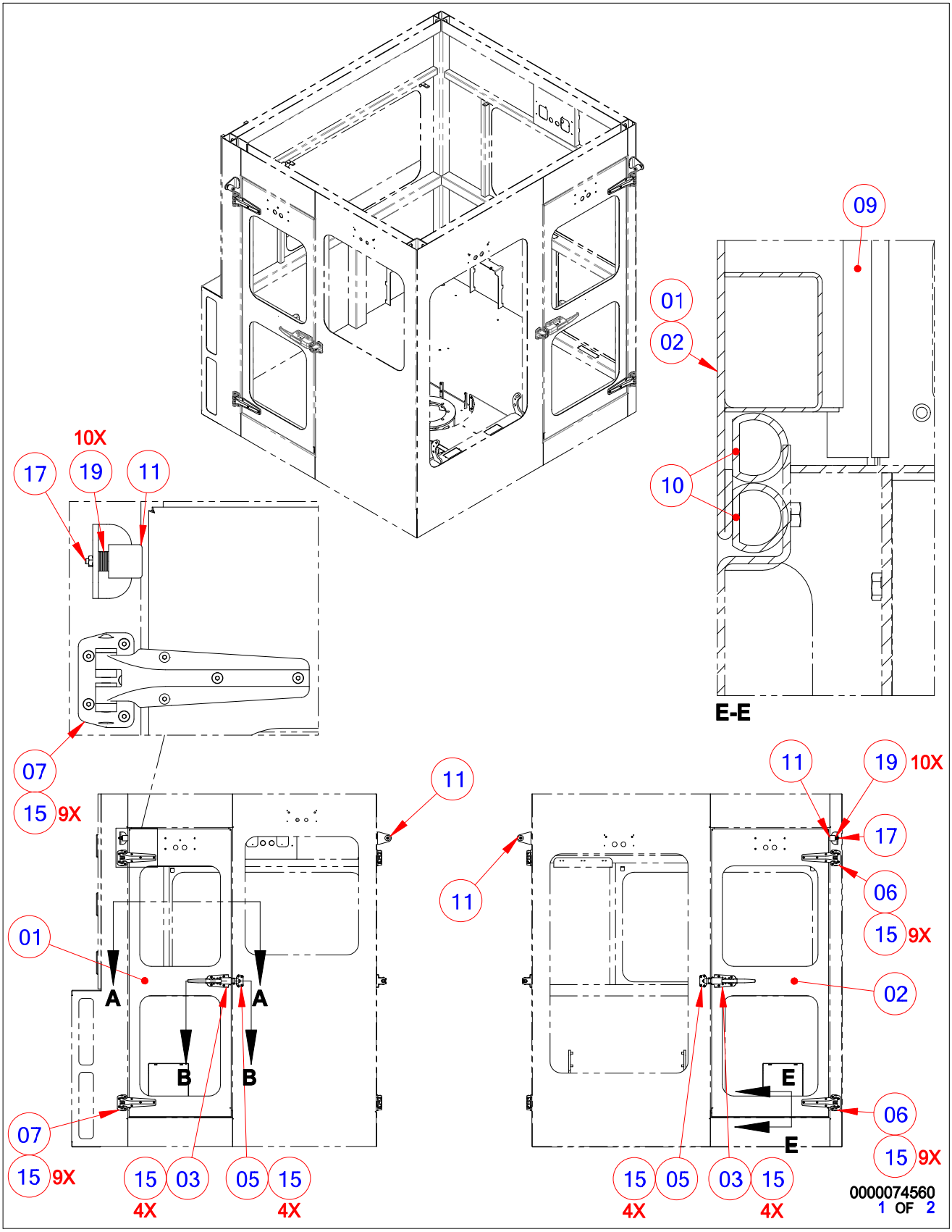
KOMATSU

STRUCTURE ASSEMBLY, OPERATOR CAB

Item	Part No.	Description	Qty.	Page
	R104021F1	STRUCTURE ASSEMBLY, OPERATOR CAB		
01	R104022D1	▪ DRILL CAB	1	
02	R103384F1	▪ DOOR INSTALLATION, Cab	1	219
03	R103104D1	▪ HATCH COVER, Roof	2	
04	R103104D2	▪ HATCH COVER, Roof	1	
05	R55615D1	▪ SIGN, Warning, Clip Usage	1	
06	R55570D1	▪ CONNECTOR, D-Ring	1	
07	R94436D1	▪ CORK, Adhesive Backed	1	
08	0825M12035	▪ BOLT, Hex Hd	2	
09	0825M06020	▪ BOLT, Hex Hd	30	
10	3648M006	▪ WASHER, Plain	30	
11	3648M012	▪ WASHER, Hardened	2	
12	R98814D102	▪ GROMMET, Push In, Rubber	1	
13	R98814D81	▪ GROMMET, Push In, Rubber	1	
14	R98812D74	▪ GROMMET, Push In, Rubber	11	
15	R98812D76	▪ GROMMET, Push In, Rubber	11	
16	R98812D88	▪ GROMMET, Push In, Rubber	12	
17	R98815D14	▪ GROMMET, Push In, Silicone	5	
18	R98812D85	▪ GROMMET, Push In, Rubber	1	
19	R98812D57	▪ GROMMET, Push In, Rubber	1	
20	R98815D50	▪ GROMMET, Push In, Silicone	2	
21	R98815D35	▪ GROMMET, Push In, Silicone	2	
22	R98815D53	▪ GROMMET, Push In, Silicone	1	
23	R98812D93	▪ GROMMET, Push In, Rubber	2	
24	R98812D72	▪ GROMMET, Push In, Rubber	2	
25	R98814D101	▪ GROMMET, Push In, Rubber	1	
26	R98812D49	▪ GROMMET, Push In, Rubber	4	

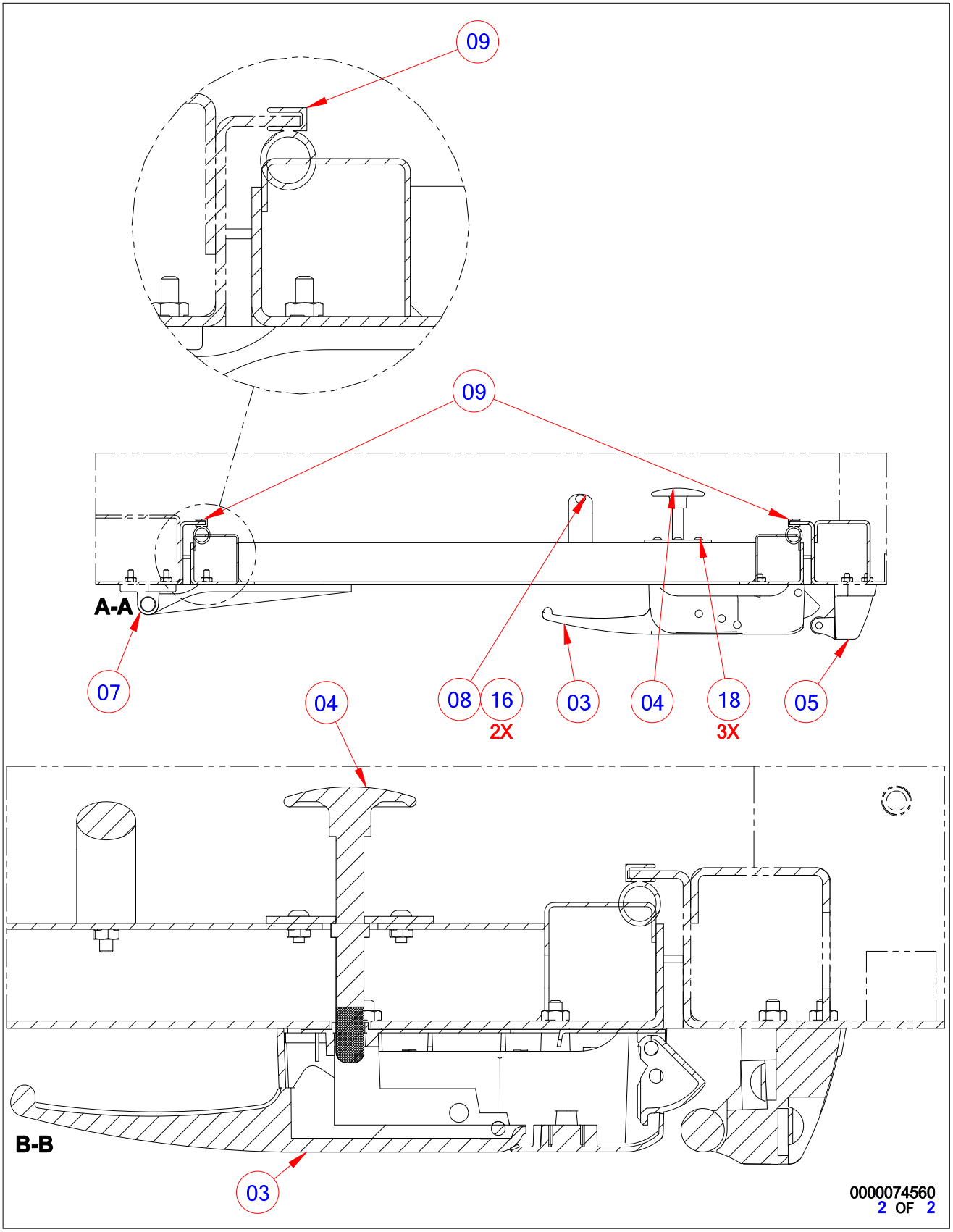
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DOOR INSTALLATION, CAB



INSTALL,DOORS,CAB

DOOR INSTALLATION, CAB

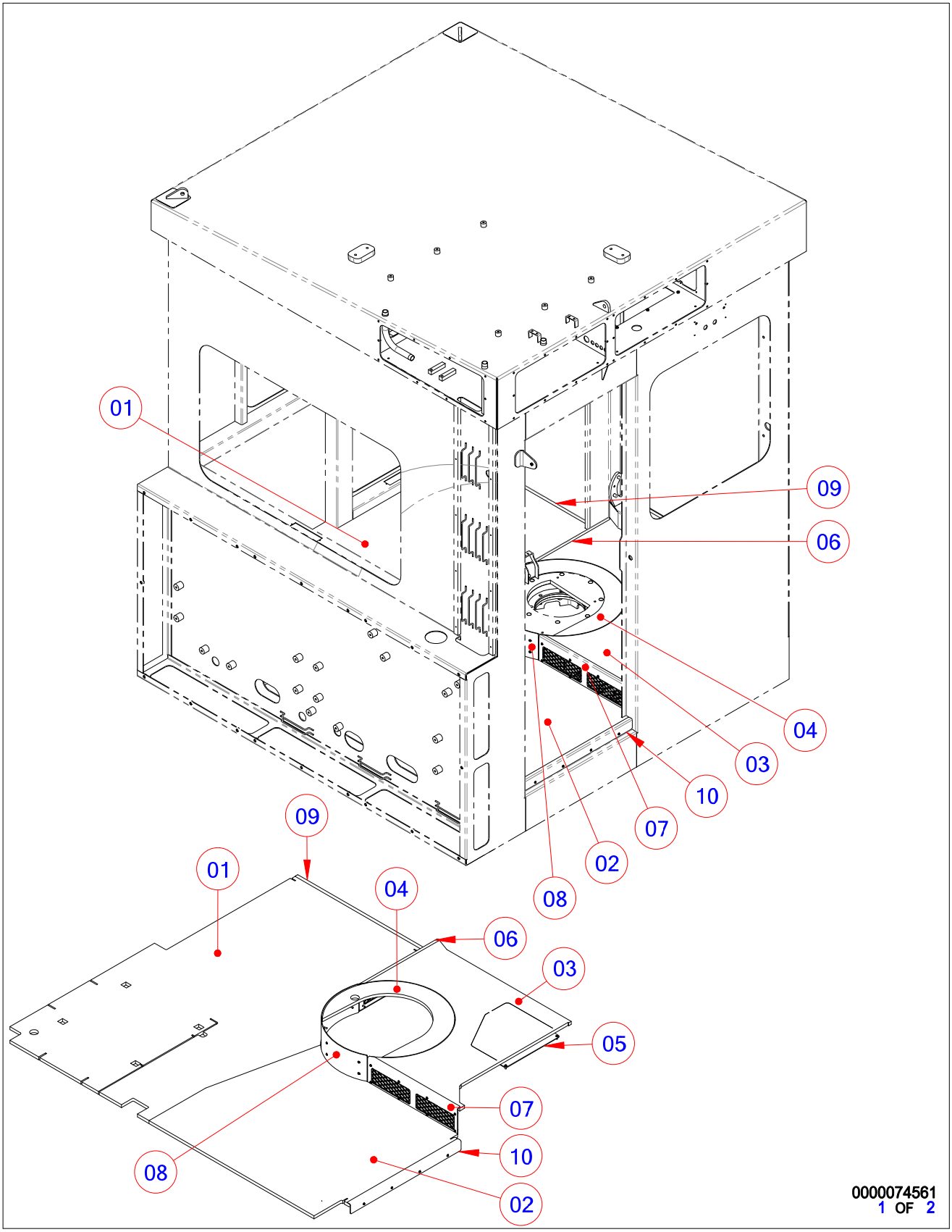


INSTALL,DOORS,CAB

DOOR INSTALLATION, CAB

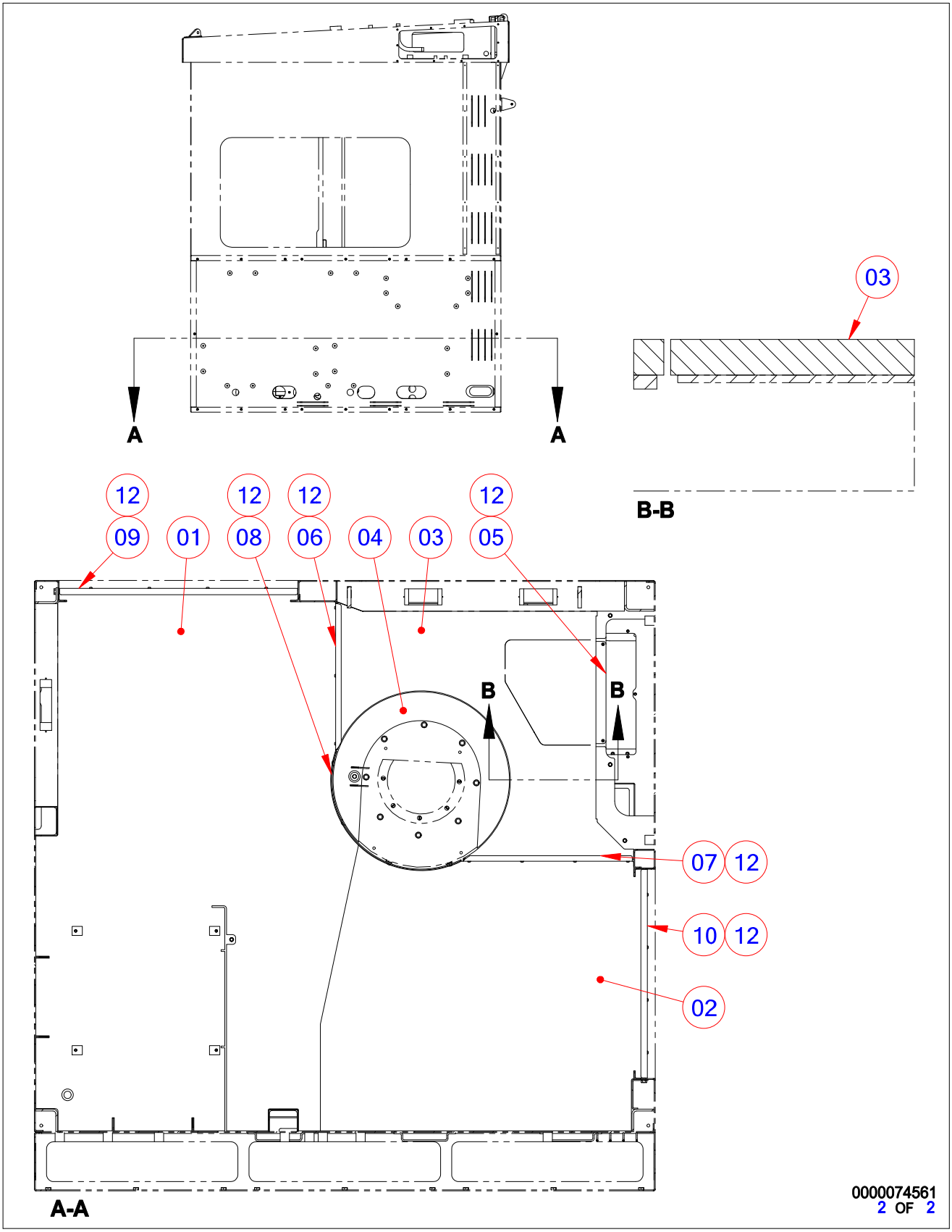
Item	Part No.	Description	Qty.
	R103384F1	DOOR INSTALLATION, CAB	
01	R103386D1	▪ DOOR, Weldment, RH	1
02	R103387D1	▪ DOOR, Weldment, LH	1
03	R103666D1	▪ LATCH, Door	2
04	R103666D2	▪ INSIDE RELEASE, Door Latch	2
05	R103666D3	▪ STRIKE, Latch	2
06	R103667D1	▪ HINGE, Walk-In, RH	2
07	R103667D2	▪ HINGE, Walk-In, LH	2
08	R97618D2	▪ PULL HANDLE	2
09	R97308D1	▪ BULB SEAL	2
10	R103384Y10	▪ SEAL	1
11	R79429D1	▪ BUMPER	2
12		NOT USED	
13		NOT USED	
14	21Z772D4	▪ COMPOUND (Not Shown)	1
15	R92152D1	▪ ADHESIVE	4
16	R80587D5	▪ SCREW	52
17	0830M06025	▪ SCREW, Socket Head	4
18	0830M06055	▪ SCREW, Socket Head	2
19	0836M05012	▪ SCREW	6
20	R101012D1	▪ WASHER, Fender (Not Shown)	20

FLOORING INSTALLATION, CAB



INSTALL,FLOORING,CAB

FLOORING INSTALLATION, CAB

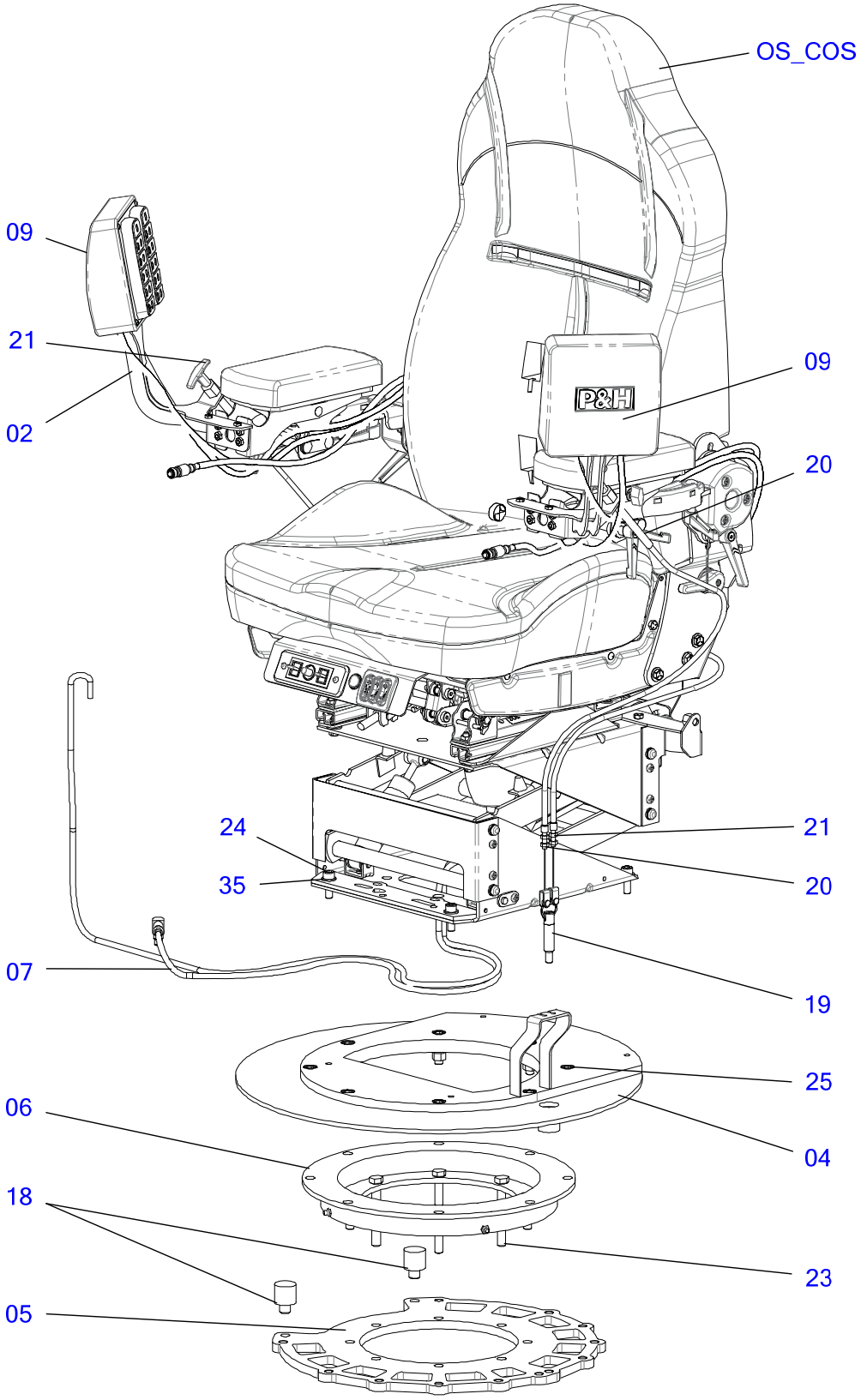


INSTALL,FLOORING,CAB

FLOORING INSTALLATION, CAB

Item	Part No.	Description	Qty.
	R101228F1	FLOORING INSTALLATION, CAB	
05	R102308D1	· FLOOR PLATE, Removable	1
06	R94421D1	· FLOOR THRESHOLD PLATE, Vented, LH	1
07	R94421D2	· FLOOR THRESHOLD PLATE, Vented, RH	1
08	R94421D3	· COVER PLATE, Seat Swivel	1
09	R94421D4	· THRESHOLD PLATE, Door, LH	1
10	R94421D5	· THRESHOLD PLATE, Door, RH	1
11	R61370D1	· ADHESIVE, Spray (Not Shown)	1
12	0836M06016	· SCREW	32
	R101229D1	· FLOOR MAT, Operator Cab, Left	
	R101229D2	· FLOOR MAT, Operator Cab, Right	
	R101229D3	· FLOOR MAT, Operator Cab, Upper	
	R101229D4	· FLOOR MAT, Operator Cab, Swivel	

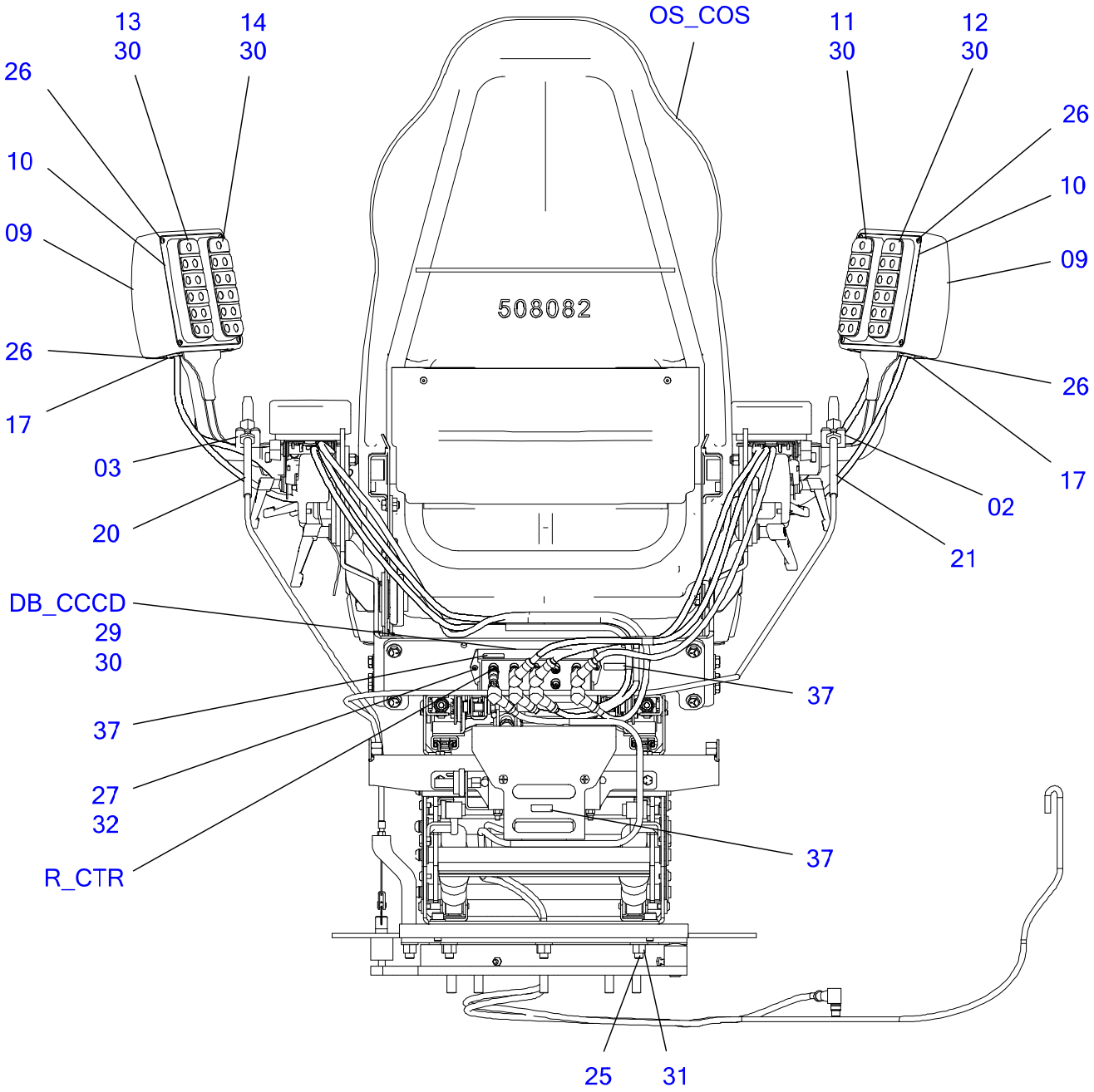
SEAT INSTALLATION, OPERATOR



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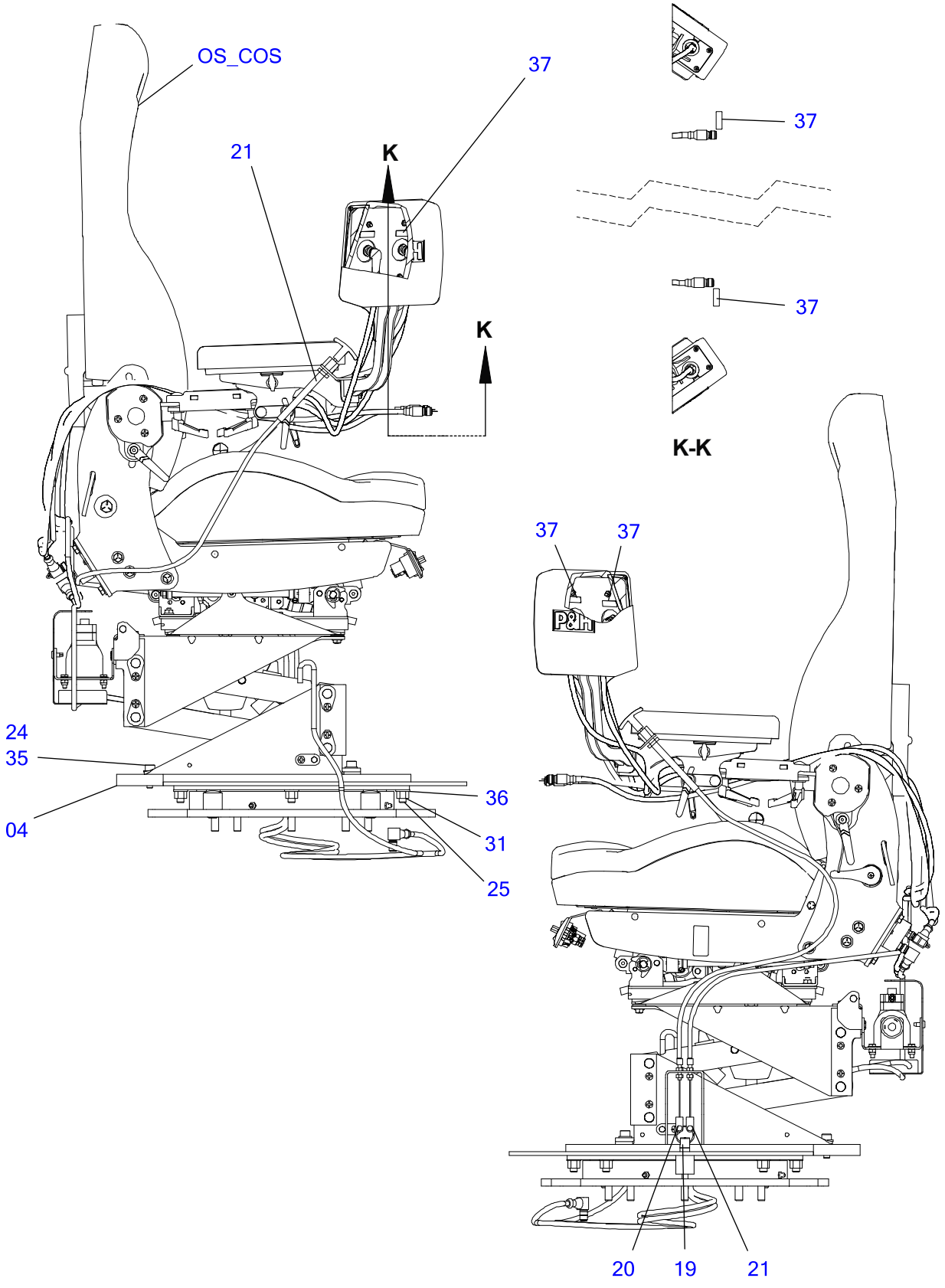
SEAT INSTALLATION, OPERATOR

SEAT INSTALLATION, OPERATOR



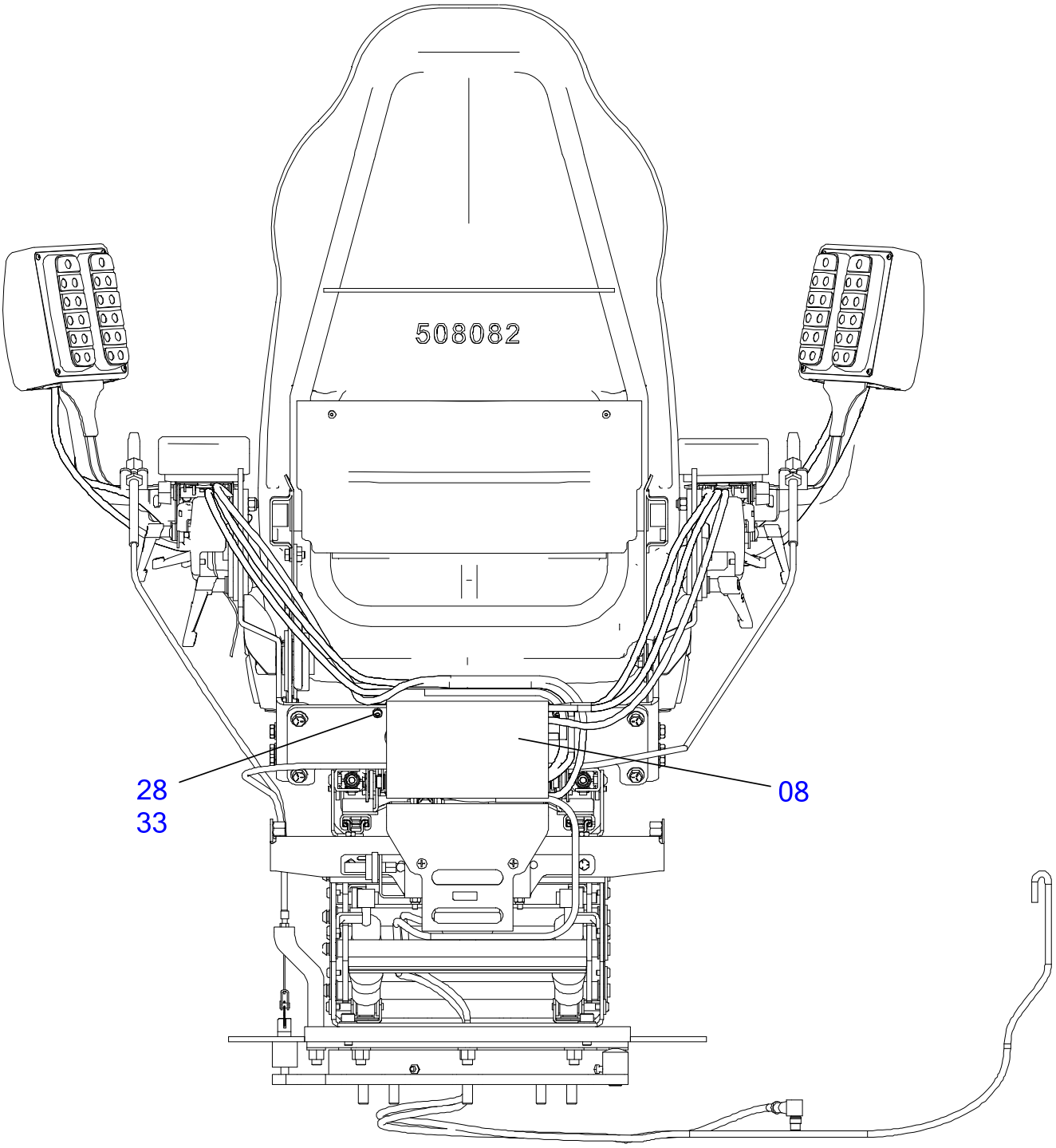
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SEAT INSTALLATION, OPERATOR



SEAT INSTALLATION, OPERATOR

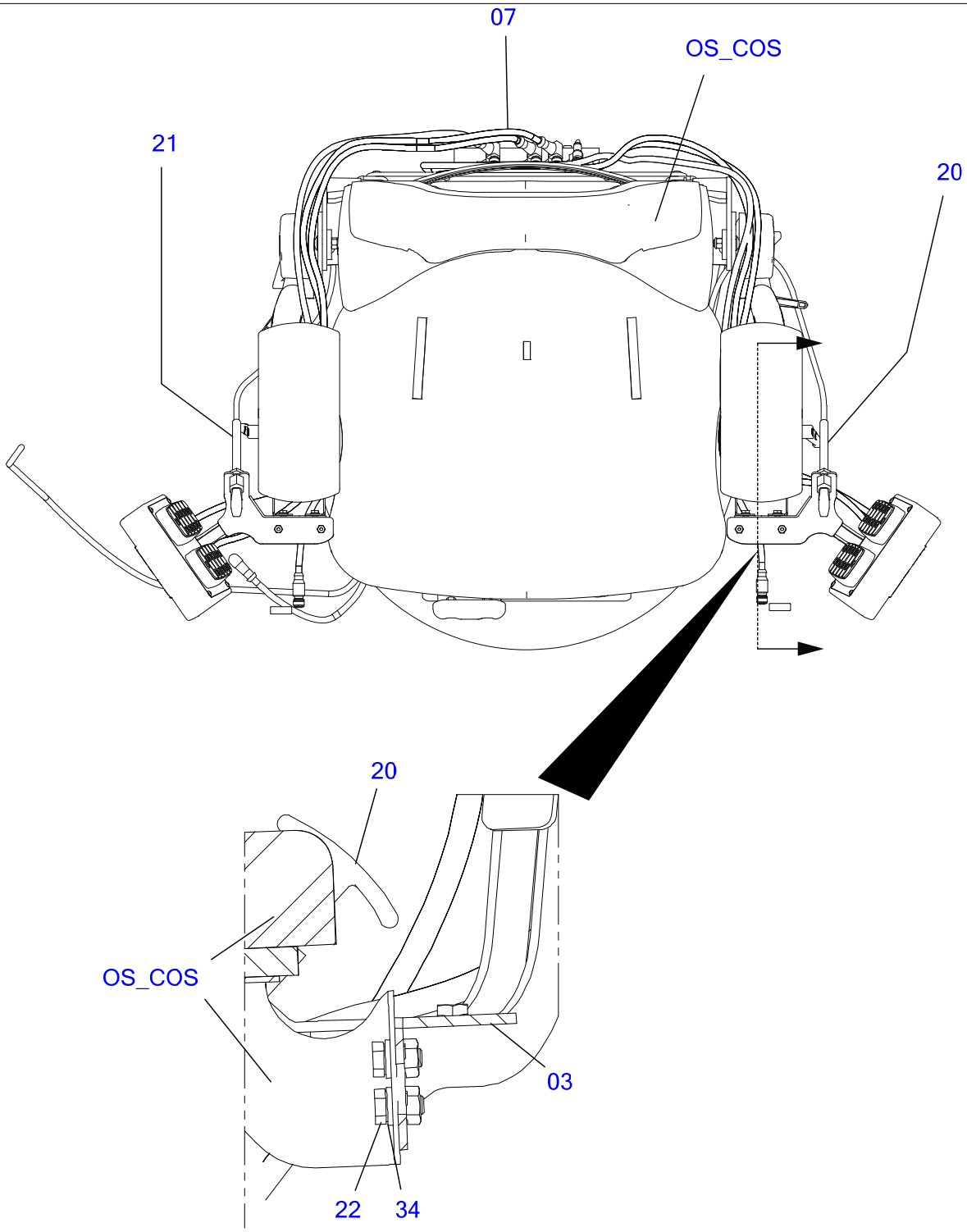
SEAT INSTALLATION, OPERATOR



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SEAT INSTALLATION, OPERATOR

SEAT INSTALLATION, OPERATOR



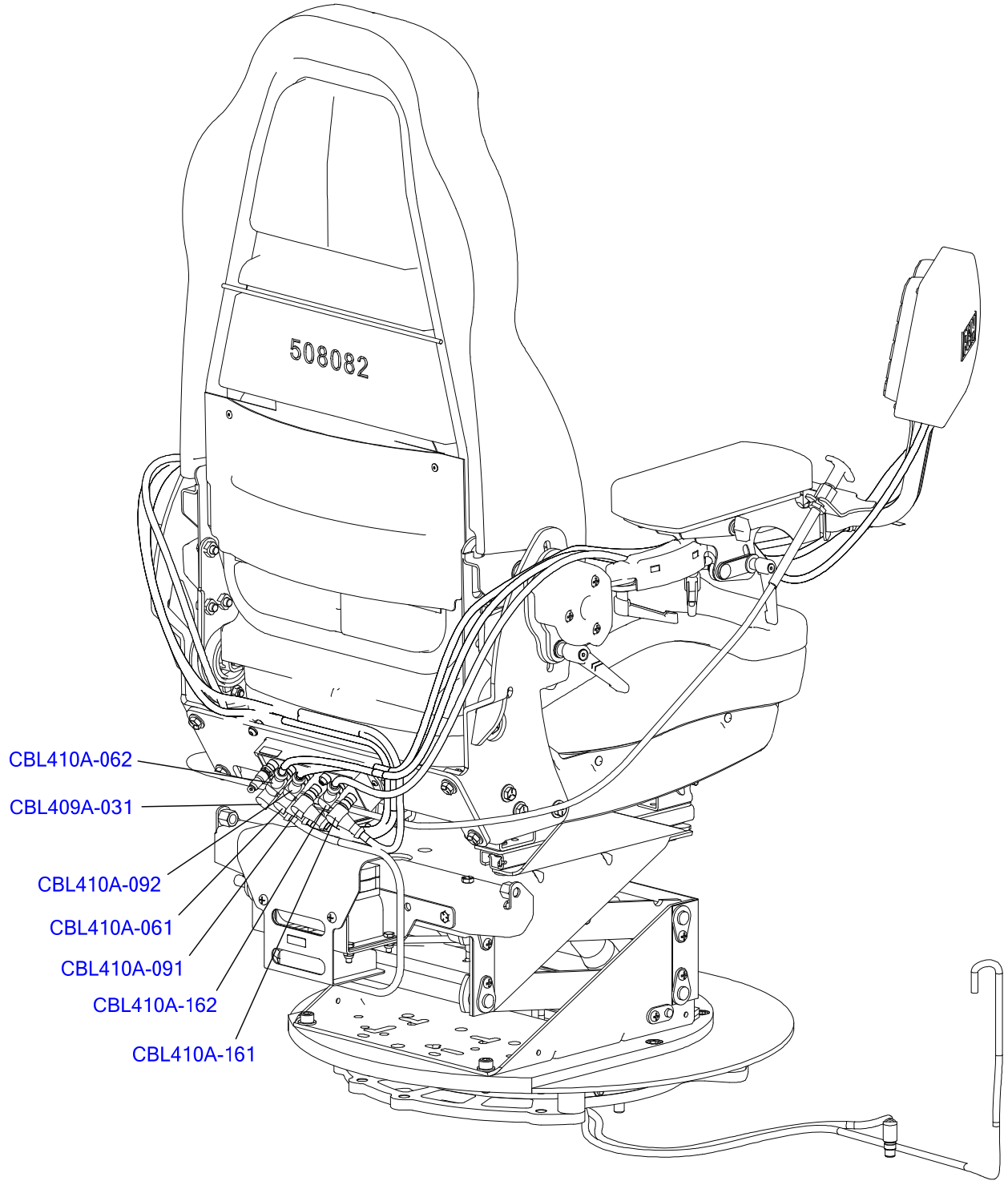
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SEAT INSTALLATION, OPERATOR

Item	Part No.	Description	Qty.	Page
	R103668F1	SEAT INSTALLATION, OPERATOR		
OS_COS	R99289D3	▪ SEAT, Operator, w/Air Suspension	1	
02	R104019D1	▪ ARMREST KEYPAD MOUNT, RH	1	
03	R104019D2	▪ ARMREST KEYPAD MOUNT, LH	1	
04	R97979D1	▪ MOUNTING WELDMENT, Seat	1	
05	R97975D1	▪ PLATE, Pin Stop, Op Cab Seat	1	
06	R80478D1	▪ BEARING	1	
07	R89725F176	▪ CABLE INSTALLATION, Operator Cab Seat	1	222
08	R94449D1	▪ COVER, Distribution Block	1	
09	R98097D1	▪ CONSOLE BASE, Armrest, w/Logo	2	
10	R98097D2	▪ BACK PLATE, Console	2	
11	R90556D3	▪ CAB RIGHT KEYPAD 1	1	
12	R90556D4	▪ CAB RIGHT KEYPAD 2	1	
13	R90556D5	▪ CAB LEFT KEYPAD 1	1	
14	R90556D6	▪ CAB LEFT KEYPAD 2	1	
DB_CCCD	R76306D2	▪ DISTRIBUTION BLOCK	1	
R_CTR	R76246D1	▪ TERMINATOR	1	
17	R98812D58	▪ GROMMET, Push-In	4	
18	R98785D1	▪ STOP, Rubber, Steel Reinforced	2	
19	R98786D1	▪ RETRACTABLE PIN, Spring Return	1	
20	R98543D2	▪ PULL CABLE, T-Handle	1	
21	R98543D1	▪ PULL CABLE, T-Handle	1	
22	0825M06012	▪ BOLT, Hex Hd	8	
23	0825M12045	▪ BOLT, Hex Hd	8	
24	0830M10030	▪ SCREW, Socket Head	4	
25	0830M12035	▪ SCREW, Socket Head	8	
26	0836M04012	▪ SCREW	16	
27	0836M04016	▪ SCREW, Button Hd Cap	2	
28	0836M06016	▪ SCREW	2	
29	2104M004	▪ NUT, Hex	2	
30	2136V004	▪ NUT, Hex	8	
31	2104M012	▪ NUT, Hex	8	
32	3612M004	▪ WASHER, Plain	2	
33	3612M006	▪ WASHER, Plain	2	
34	3648M006	▪ WASHER, Hardened	8	
35	3648M010	▪ WASHER, Hardened	4	
36	3648M012	▪ WASHER, Hardened	8	
37	R91711D1	▪ DECALS	1	

CABLE INSTALLATION, SEAT, CAB



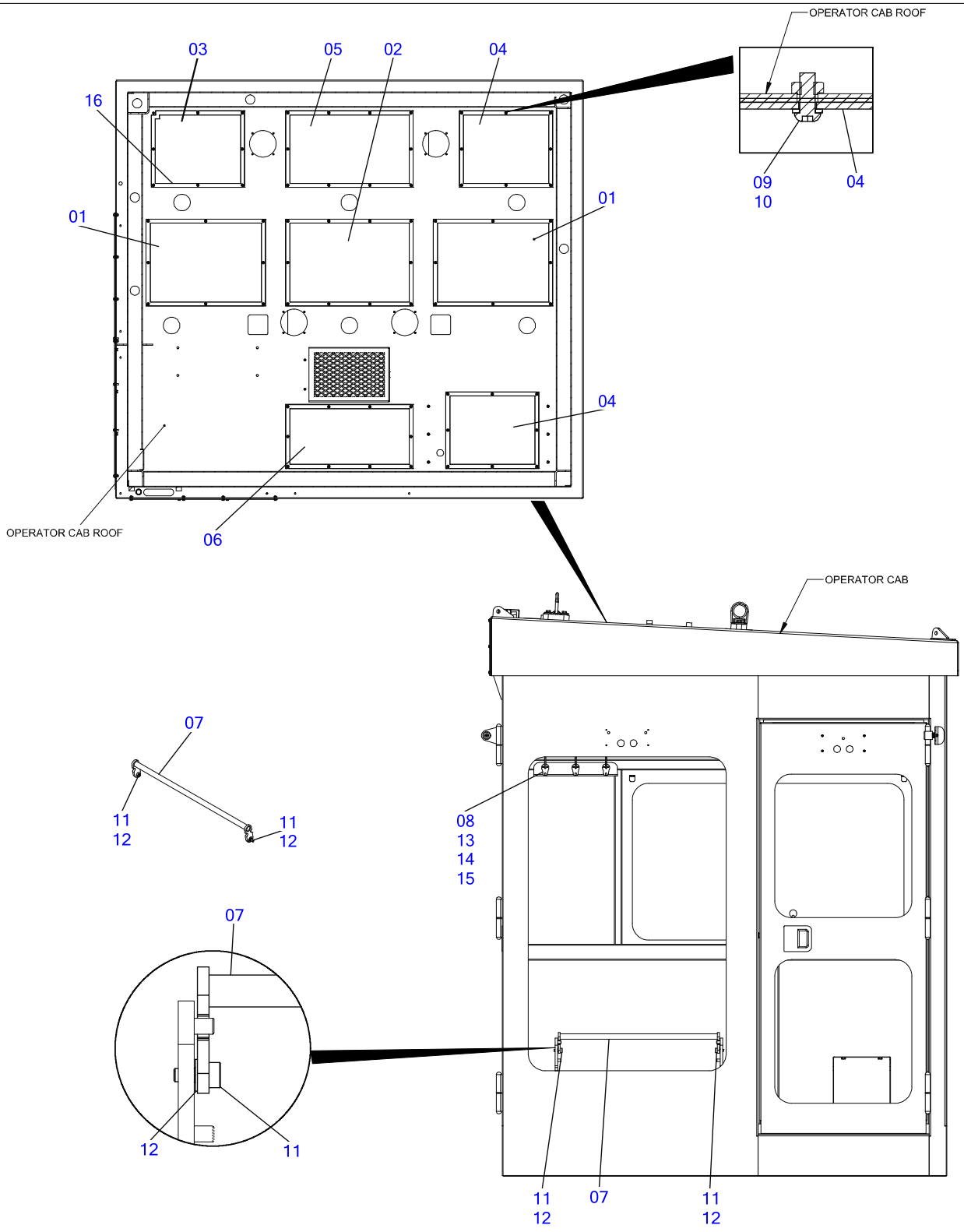
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CABLE INSTALLATION, SEAT, CAB

CABLE INSTALLATION, SEAT, CAB

Item	Part No.	Description	Qty.
	R89725F176	CABLE INSTALLATION, SEAT, CAB	
01	R89740F176	・WIRE LIST, Seat, Cab	1
CBL410A-061	R90651T12D180	・・CABLE, 5 Pin	1
CBL410A-062	R90651T12D180	・・CABLE, 5 Pin	1
CBL410A-091	R90651T12D180	・・CABLE, 5 Pin	1
CBL410A-092	R90651T12D180	・・CABLE, 5 Pin	1
CBL409A-031	R90651T12D220	・・CABLE, 5 Pin	1
CBL410A-161	R90651T11D150	・・CABLE, 5 Pin	1
CBL410A-162	R90651T11D150	・・CABLE, 5 Pin	1
09	R89740F176Y4	・・CONDUIT (Not Shown)	1
10	32Z890D118	・WIRE-TIE, Black-Weather Resistant (Not Shown)	12

INSTALLATION, INTERIOR TRIM



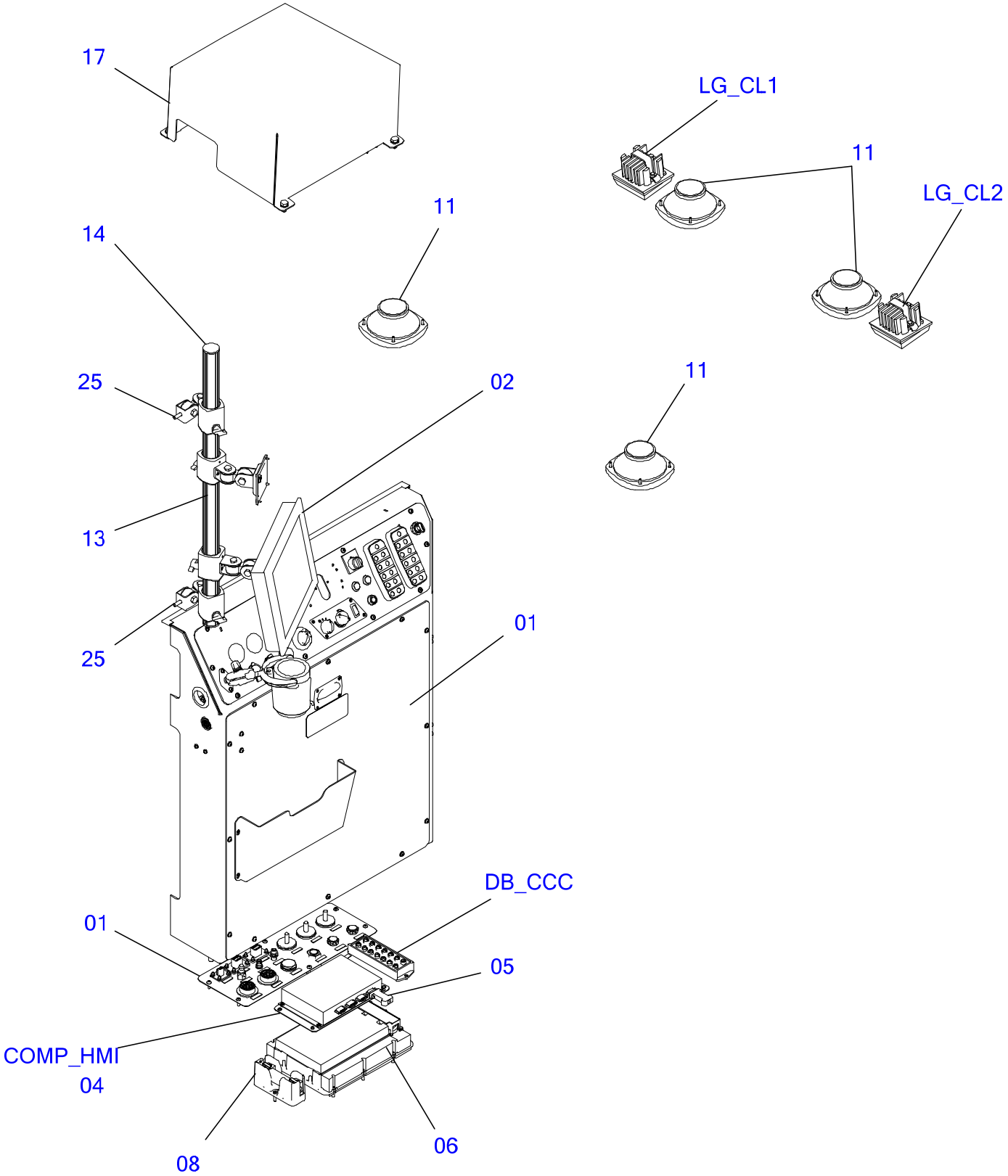
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INSTALLATION, INTERIOR TRIM

INSTALLATION, INTERIOR TRIM

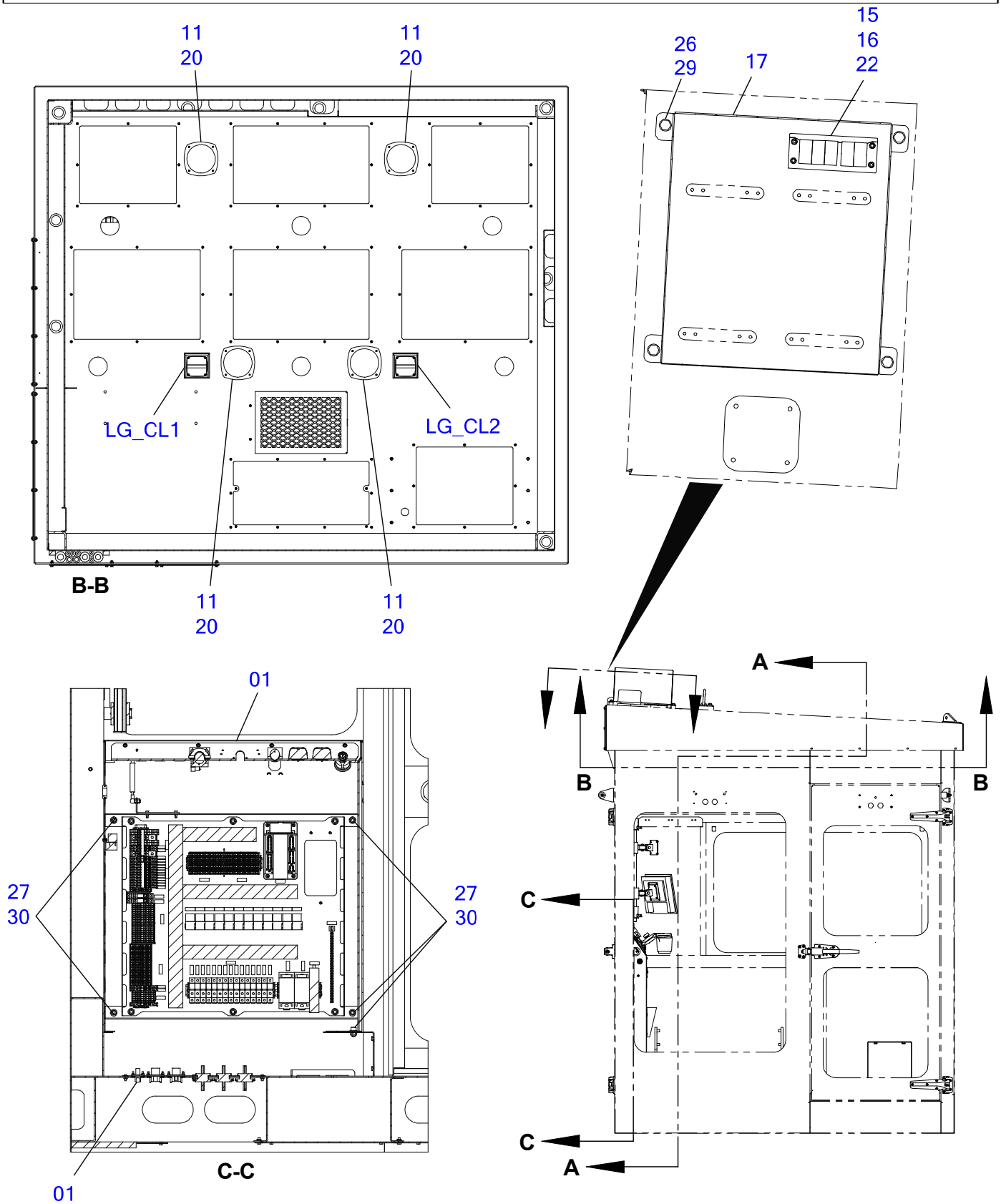
Item	Part No.	Description	Qty.
	R102380F1	INSTALLATION, INTERIOR TRIM	
01	R97518D1	▪ ACCESS PANEL, Ceiling	2
02	R97518D2	▪ ACCESS PANEL, Ceiling	1
03	R97518D5	▪ ACCESS PANEL, Ceiling	1
04	R97518D3	▪ ACCESS PANEL, Ceiling	2
05	R97518D4	▪ ACCESS PANEL, Ceiling	1
06	R97518D6	▪ ACCESS PANEL, Ceiling	1
07	R99234D1	▪ FOOT REST, Operator	1
08	R99679D1	▪ COAT HOOK, 2 Prong	3
09	0836M06016	▪ SCREW	69
10	3612M006	▪ WASHER, Plain	69
11	R92097D1	▪ BOLT, Shoulder	2
12	R91920D1	▪ BEARING, Thrust	2
13	0836M03012	▪ SCREW	6
14	3612M003	▪ WASHER, Plain	6
15	2104M003	▪ NUT, Hex	6
16	R102935D1	▪ TAPE, Cork/Rubber	1

INSTALLATION, CAB ELECTRICAL COMPONENTS



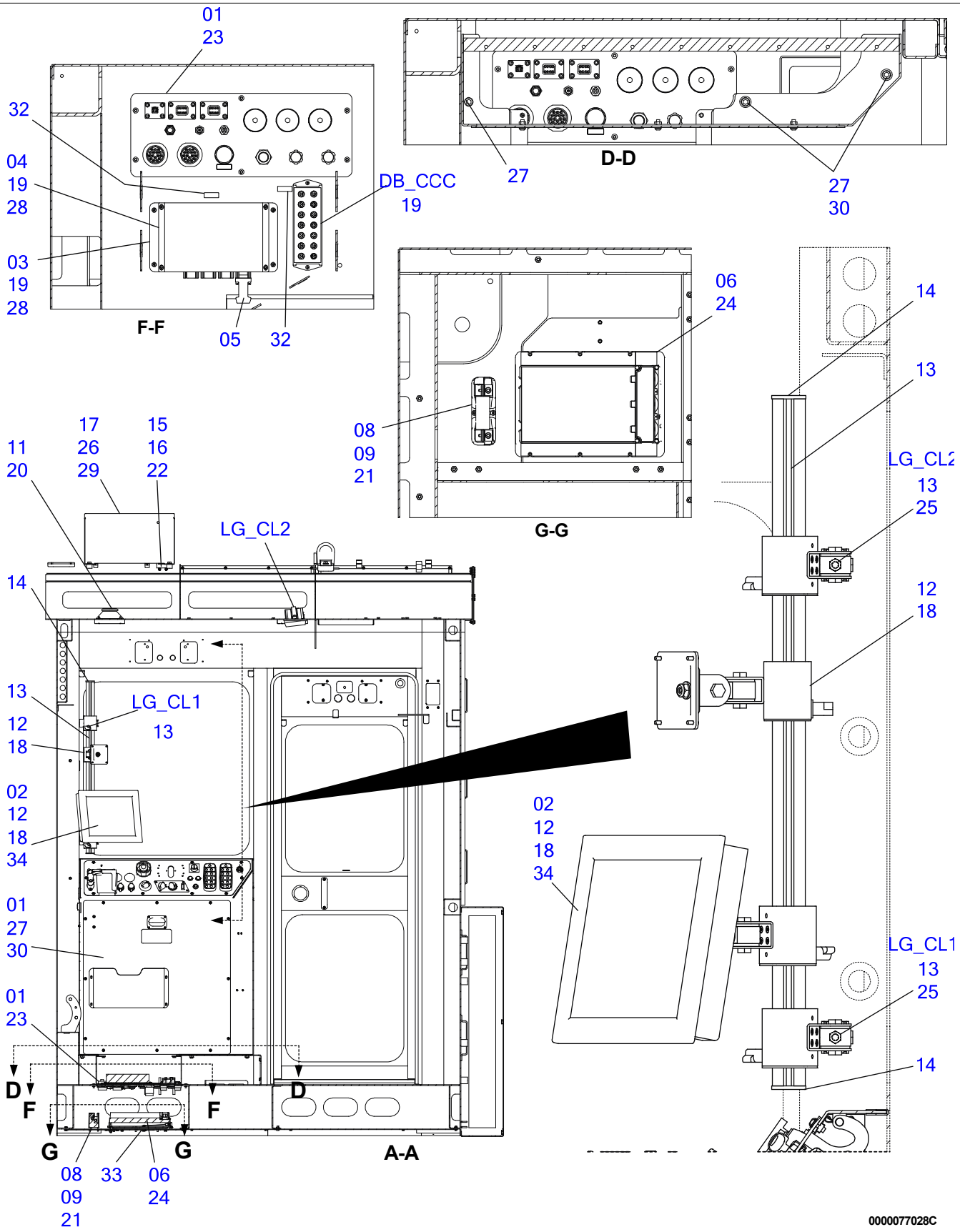
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INSTALLATION, CAB ELECTRICAL COMPONENTS



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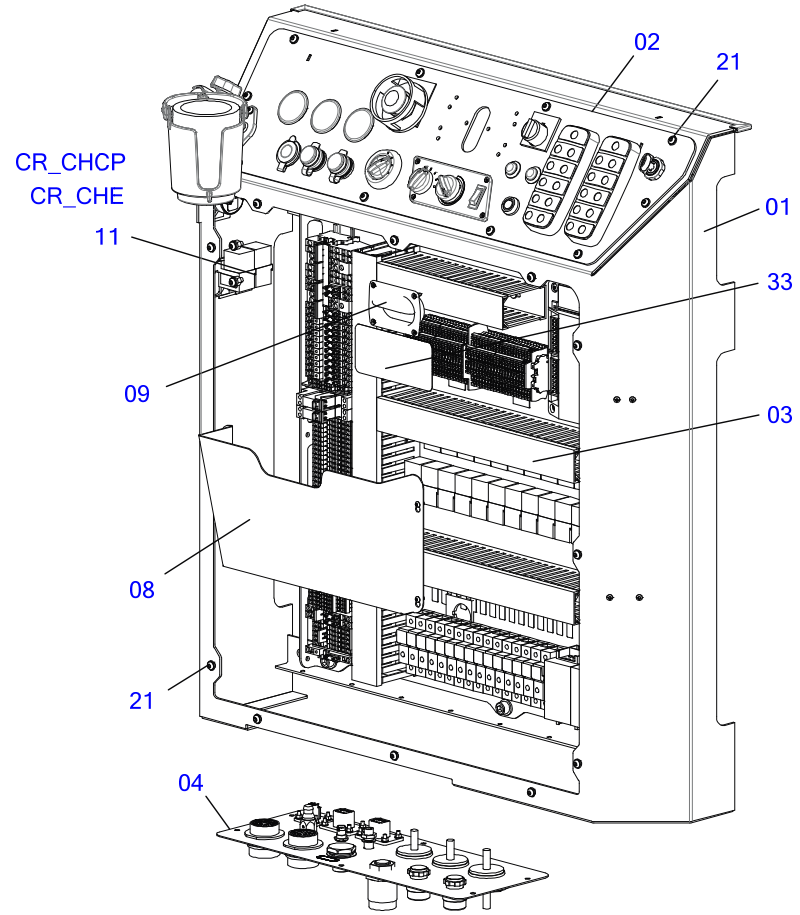
INSTALLATION, CAB ELECTRICAL COMPONENTS

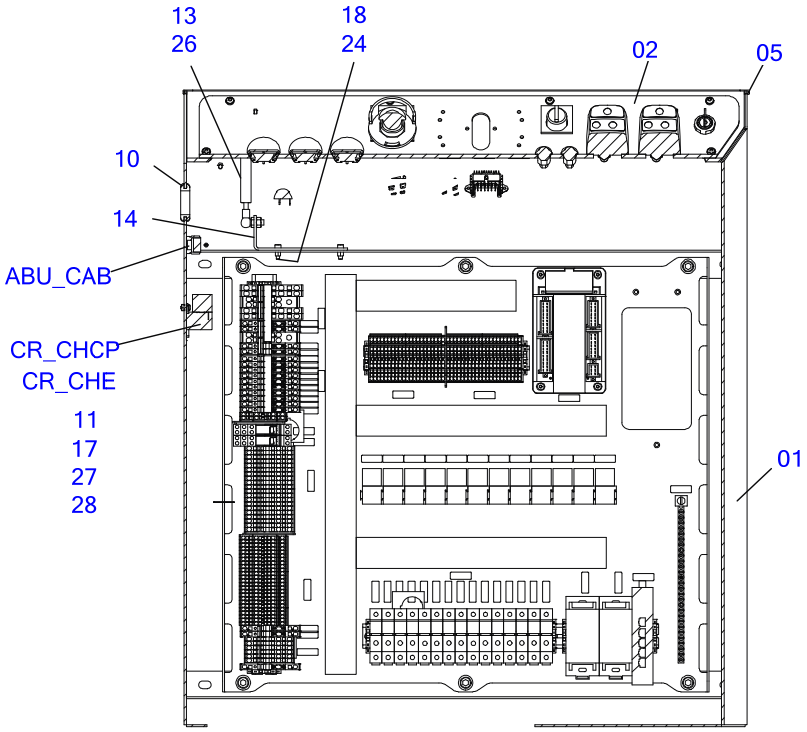


INSTALLATION, CAB ELECTRICAL COMPONENTS

Item	Part No.	Description	Qty.	Page
	R109262F2	INSTALLATION, CAB ELECTRICAL COMPONENTS		
01	R109257F1	▪ CABINET ASSEMBLY, Electrical, Cab	1	225
02	R107263D1	▪ TOUCHSCREEN	1	
COMP_HMI	R114266D1	▪ ADAPTER, Mount, HMI	1	
04	R111487F2	▪ COMPUTER, Programmed	1	
05	R4239844	▪ ADAPTER, Communication Port	1	
06	R76258D1	▪ CONVERTER, Voltage	1	
DB_CCC	R76306D1	▪ BLOCK, Distribution, 12 Port	1	
08	R23969D10	▪ FUSE BLOCK, 1-Pole	1	
09	79U2594D14	▪ FUSE, 70A	1	
LG_CL1	R88312D1	▪ CAB LIGHT	1	
LG_CL2	R88312D1	▪ CAB LIGHT	1	
11	R74156D1	▪ SPEAKER	4	
12	R92949D1	▪ SWIVEL MOUNT, Rail	6	
13	R92968D2	▪ RAIL	1	
14	R93032D1	▪ CAP, End	2	
15	R105567D1	▪ FRAME, Grommet	1	
16	R105592D18	▪ GROMMET, Blind	10	
17	R107968D1	▪ COVER, Electrical, Pass Through	1	
18	R93028D1	▪ NUT, T-Slot	8	
19	0836M04010	▪ SCREW, Button Hd Cap	10	
20	0830M04025	▪ SCREW, Socket Head	16	
21	0820M05025	▪ SCREW, Fl Hd Ctsk	2	
22	0630M05025	▪ SCREW, Socket Head	4	
23	0836M06016	▪ SCREW, Button Hd Cap	6	
24	0836M06025	▪ SCREW, Button Hd Cap	6	
25	0825M08025	▪ BOLT, Hex Hd	2	
26	0825M10020	▪ BOLT, Hex Hd	4	
27	0830M10020	▪ SCREW, Socket Head	7	
28	3612M004	▪ WASHER, Plain	8	
29	3612M010	▪ WASHER, Plain	4	
30	3648M010	▪ WASHER, Hardened	6	
31	R109496F670	▪ WIRE LIST, Internal, Cab (Not Shown)	1	231
32	R102904D1	▪ DECALS	1	
33	R89992D1	▪ DECAL, Warning, Electrical Hazard	1	
34	R88249D1	▪ TIE, Wire	4	

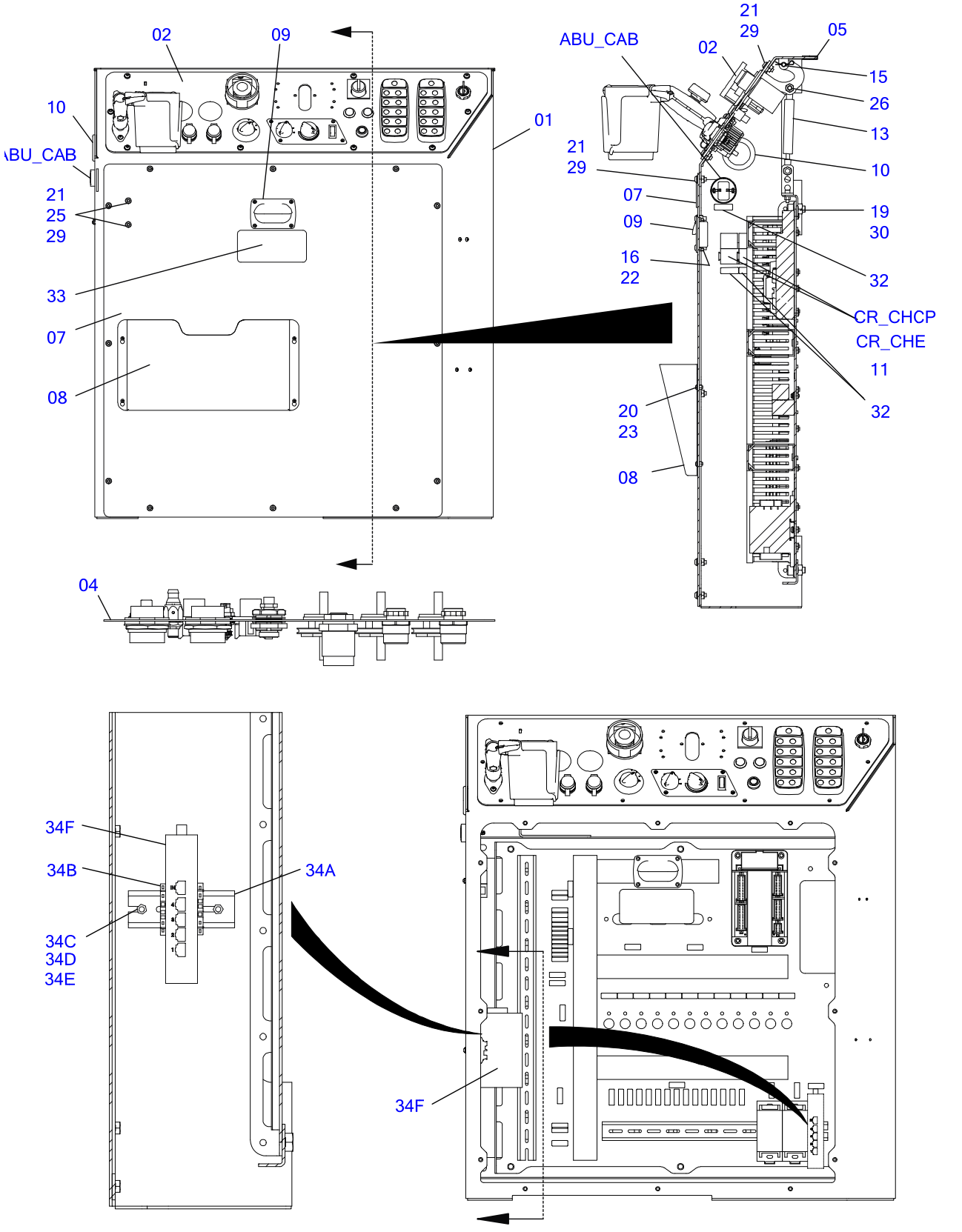
CABINET ASSEMBLY, CAB ELECTRICAL





CABINET ASSEMBLY, ELECTRICAL, CAB

CABINET ASSEMBLY, CAB ELECTRICAL



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SIDE VIEW AND ETHERNET RELOCATION

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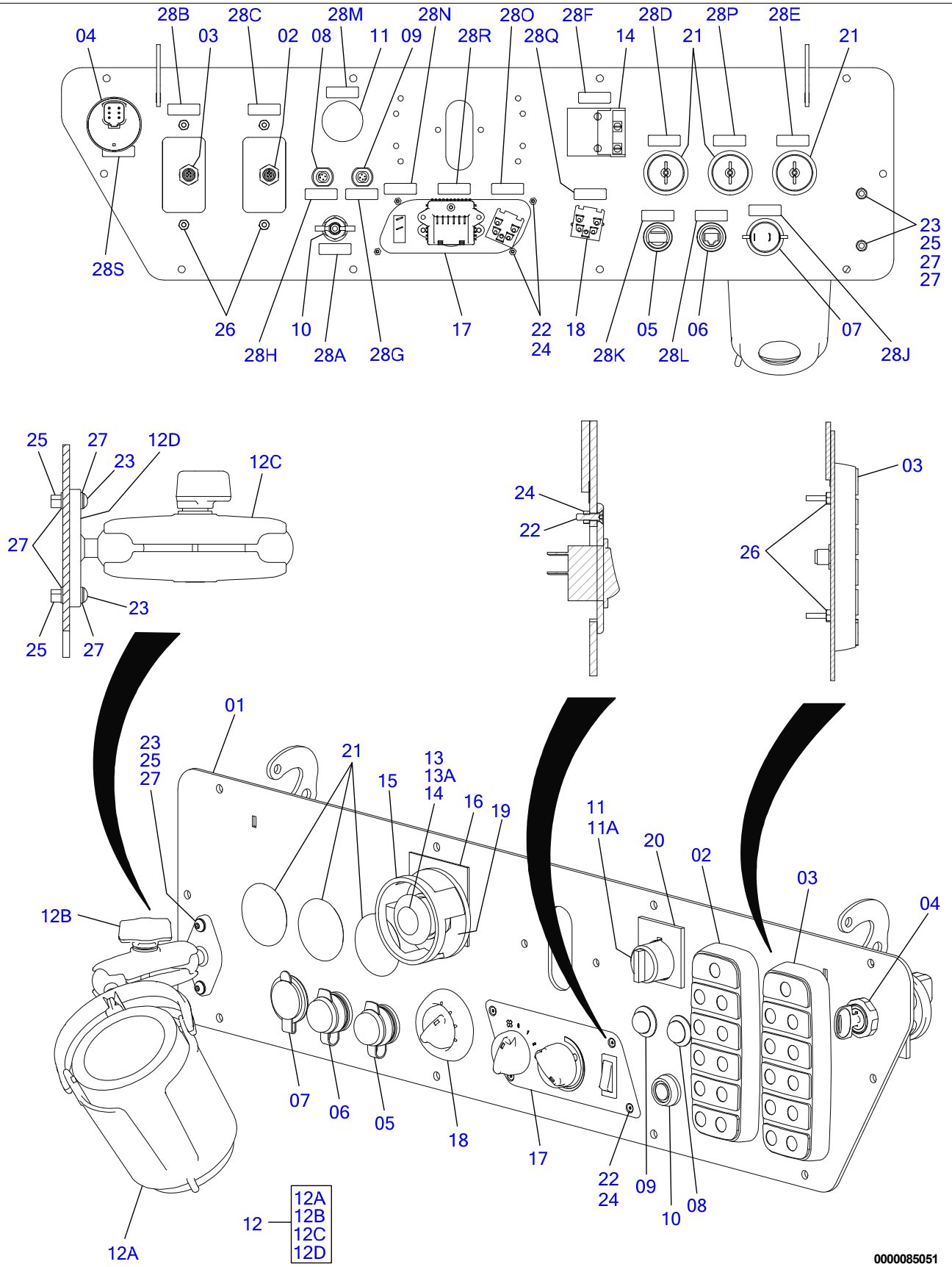
CABINET ASSEMBLY, CAB ELECTRICAL

Item	Part No.	Description	Qty.	Page
	R109257F1	CABINET ASSEMBLY, CAB ELECTRICAL		
01	R94451D1	▪ CABINET, Electrical, Cab	1	
02	R98046F4	▪ CONTROL PANEL, Rotating	1	226
03	R109329F1	▪ SUBPANEL, Cabinet (This assembly has been modified by R9012391F1.)	1	227
04	R98025F3	▪ PLATE ASSEMBLY, Interface	1	229
05	R109257F1Y5	▪ TRIM, Quickedge	1	
ABU_CAB	R4094849	▪ ALARM BUZZER, Operator Cab	1	
07	R94451D2	▪ COVER, Electrical Cabinet	1	
08	R98723D1	▪ DOCUMENT HOLDER	1	
09	R98724D1	▪ PULL HANDLE, Recessed	1	
10	R98812D88	▪ GROMMET, Push-In	1	
11	R4260949	▪ BRACKET, Relay Mounting	2	
CR_CHCP	R4260950	▪ RELAY, 20A	1	
CR_CHE	R4260950	▪ RELAY, 20A	1	
13	R80813D3	▪ GAS SPRING	1	
14	R94420D1	▪ MOUNTING PLATE, Gas Spring	1	
15	R104024D10	▪ CLEVIS PIN, w/Cotter Pin	2	
16	0820M03012	▪ SCREW, Flat Head Socket	4	
17	0836M04012	▪ SCREW, Button Hd Cap	2	
18	0630M05016	▪ SCREW, Socket Head	2	
19	0630M10020	▪ SCREW, Socket Head	6	
20	0836M04010	▪ SCREW, Button Hd Cap	8	
21	0836M06016	▪ SCREW, Button Hd Cap	24	
22	2104M003	▪ NUT, Hex	4	
23	2104M004	▪ NUT, Hex	8	
24	2104M005	▪ NUT, Hex	2	
25	2104M006	▪ NUT, Hex	2	
26	20Q270D20	▪ NUT, Hex	2	
27	3612M004	▪ WASHER, Plain	2	
28	3615M004	▪ WASHER, Lock	2	
29	3612M006	▪ WASHER, Plain	24	
30	3648M010	▪ WASHER, Hardened	6	
31	R109496F69	▪ WIRE LIST, Cabinet, Cab (Not Shown)	1	230
32	R109395D1	▪ DECALS, Cabinet Assembly, Cab	1	
33	R89992D1	▪ DECAL, Warning, Electrical Hazard	1	
34	R9012391F1	RELOCATION INSTALLATION, Ethernet Switch	1	
34A	R9012391Y1	▪ RAIL, Mounting	1	
34B	R82712D1	▪ CLAMP, End	2	
34C	2104M005	▪ NUT, Hex	2	
34D	0836M05012	▪ SCREW, Button Hd Cap	2	

CABINET ASSEMBLY, CAB ELECTRICAL

Item	Part No.	Description	Qty.	Page
34E	3612M005	▪ WASHER, Plain	2	
34F	R95148D1	▪ ETHERNET SWITCH, Prevail (This item is not part of the Relocation Installation, order separately.)	1	

CONTROL PANEL ASSEMBLY, CAB ROTATING



CONTROL PANEL ASSEMBLY, CAB ROTATING

KOMATSU

CONTROL PANEL ASSEMBLY, CAB ROTATING

Item	Part No.	Description	Qty.	Unit
	R98046F4	CONTROL PANEL ASSEMBLY, CAB ROTATING		
01	R98046D4	・CONTROL PANEL, Rotating Wall	1	
02	R90556D1	・CONSOLE KEYPAD 2	1	
03	R90556D2	・CONSOLE KEYPAD 1	1	
04	R75191D2	・KEYSWITCH, Cab Ignition / Crank	1	
05	R75056D1	・RECEPTACLE, USB	1	
06	R75057D1	・RECEPTACLE, RJ45	1	
07	R75192D1	・PLUG, Accessory	1	
08	R95026D3	・INDICATOR LIGHT, LED, Yellow	1	
09	R95026D4	・INDICATOR LIGHT, LED, Red	1	
10	R4239848	・I-BUTTON, Read Head	1	
11	79Z2719D1	・SWITCH, Selector, 2-Position	1	
11A	79Z2721D25	・・COVER, Locking - On/Off Switch	1	
12	R75383D2	・MOUNT, Drink Holder w/Arm and Base	1	
	R75383D1	・・HOLDER, Drink	1	
	R75402D1	・・BASE	1	
	R75402D2	・・・BASE	1	
	R75402D3	・・・ARM	1	
13	79Z2717D60	・PUSHBUTTON, E-Stop	1	
13A	79Z2721D3	・・CONTACT, NC	2	
14	79Z2721D7	・BLOCK, Contact	1	
15	79Z2721D48	・GUARD, Pushbutton	1	
16	79Z2721D49	・PLATE, Emergency Stop	1	
17	R95904D1	・SWITCH, Air Conditioner On / Off	1	
18	R98725D1	・SWITCH, Pressurizer Control	1	
19	R92485D1	・NAMEPLATE, Emergency Stop	1	
20	R90729D5	・NAMEPLATE, Working Lights	1	
21	R73880D4	・SEAL, Hole	3	
22	0820M03012	・SCREW, Socket, Flat Hd Countersunk	4	
23	0836M05020	・SCREW, Button Hd Cap	2	
24	2104M003	・NUT, Hex	4	
25	2104M005	・NUT, Hex	2	
26	2136V004	・NUT, Hex	4	
27	3612M005	・WASHER, Plain	4	
28	R91046D1	・DECALS, Cab Console Top	1	
28A	R91046D2	・・DECAL, I_BUTTON	1	Each
28B	R91046D3	・・DECAL, KP_C1	1	Each
28C	R91046D4	・・DECAL, KP_C2	1	Each
28D	R91046D5	・・DECAL, LT_RMAC	1	Each
28E	R91046D6	・・DECAL, PB_LMS	1	Each

CONTROL PANEL ASSEMBLY, CAB ROTATING

Item	Part No.	Description	Qty.	Unit
28F	R91046D7	・・DECAL, PB_MEOC	1	Each
28G	R91046D8	・・DECAL, PB_RMS	1	Each
28H	R91046D9	・・DECAL, PL_RAL	1	Each
28J	R91046D10	・・DECAL, PL_YWL	1	Each
28K	R91046D11	・・DECAL, REC_ACC	1	Each
28L	R91046D12	・・DECAL, REC_CCUSB	1	Each
28M	R91046D13	・・DECAL, REC_CEP	1	Each
28N	R91046D14	・・DECAL, SS_WLC	1	Each
28O	R91046D15	・・DECAL, SW_AC	1	Each
28P	R91046D16	・・DECAL, SW_ACB	1	Each
28Q	R91046D17	・・DECAL, SW_CICK	1	Each
28R	R91046D18	・・DECAL, SW_P	1	Each
28S	R91046D19	・・DECAL, TH_ACM	1	Each

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SUBPANEL ASSEMBLY, OPERATOR CAB CABINET

Item	Part No.	Description	Qty.	Unit	Page
	R109329F1	SUBPANEL ASSEMBLY, OPERATOR CAB CABINET			
01	R94452D2	・PANEL, Component Mounting	1		
02		・RAIL, Mounting	1		
	500603575	・・RAIL, Mounting	12	Inch	
03		・RAIL, Mounting	1		
	500603575	・・RAIL, Mounting	25	Inch	
04		・RAIL, Mounting	1		
	500603575	・・RAIL, Mounting	19	Inch	
05		・DUCT, Wire	1		
	509201235	・・DUCT, Wire	11	Inch	
06		・DUCT, Wire	1		
	509201235	・・DUCT, Wire	25	Inch	
07		・DUCT, Wire	2		
	509201235	・・DUCT, Wire	17	Inch	
08	R74818D1	・MODULE, I/O	1		
09	R69367D2	・BAR, Equipment Grounding	1		
10		・ETHERNET SWITCH, Prevail (This item has been relocated to assembly R109257F1.)	1		225
11	R85635D1	・BLOCK, Power Distribution	2		
12	R90623D1	・RELAY, 2-Pole	2		
13	R90623D2	・SOCKET, Relay	2		
14	R88487D1	・BLOCK, Terminal	4		
15	R4260949	・BRACKET, Relay Mounting	12		
16	R4260950	・RELAY, 20A	12		
17	R82620D1	・BLOCK, Terminal (Gray)	25		
18	R82620D7	・BLOCK, Terminal (Green/Yellow)	1		
19	R82621D1	・BLOCK, Terminal	2		
20	R80858D2	・BLOCK, Fuse Terminal	4		
21	R80858D3	・BLOCK, Terminal, Fuse - w/ LED	13		
22	R90549D1	・HOLDER, Fuse	15		
23	R90548D16	・FUSE, 5A	2		
24	R90548D19	・FUSE, 8A	2		
25	R90548D24	・FUSE, 20A	2		
26	R90548D23	・FUSE, 15A	8		
27	R82706D5	・FUSE, 5A	4		
28	R82706D7	・FUSE, 10A	1		
29	R82706D8	・FUSE, 15A	11		
30	R82706D11	・FUSE, 30A	1		
31	R82712D1	・CLAMP, End	8		
32	R82705D1	・PLATE, Spacer	4		

SUBPANEL ASSEMBLY, OPERATOR CAB CABINET

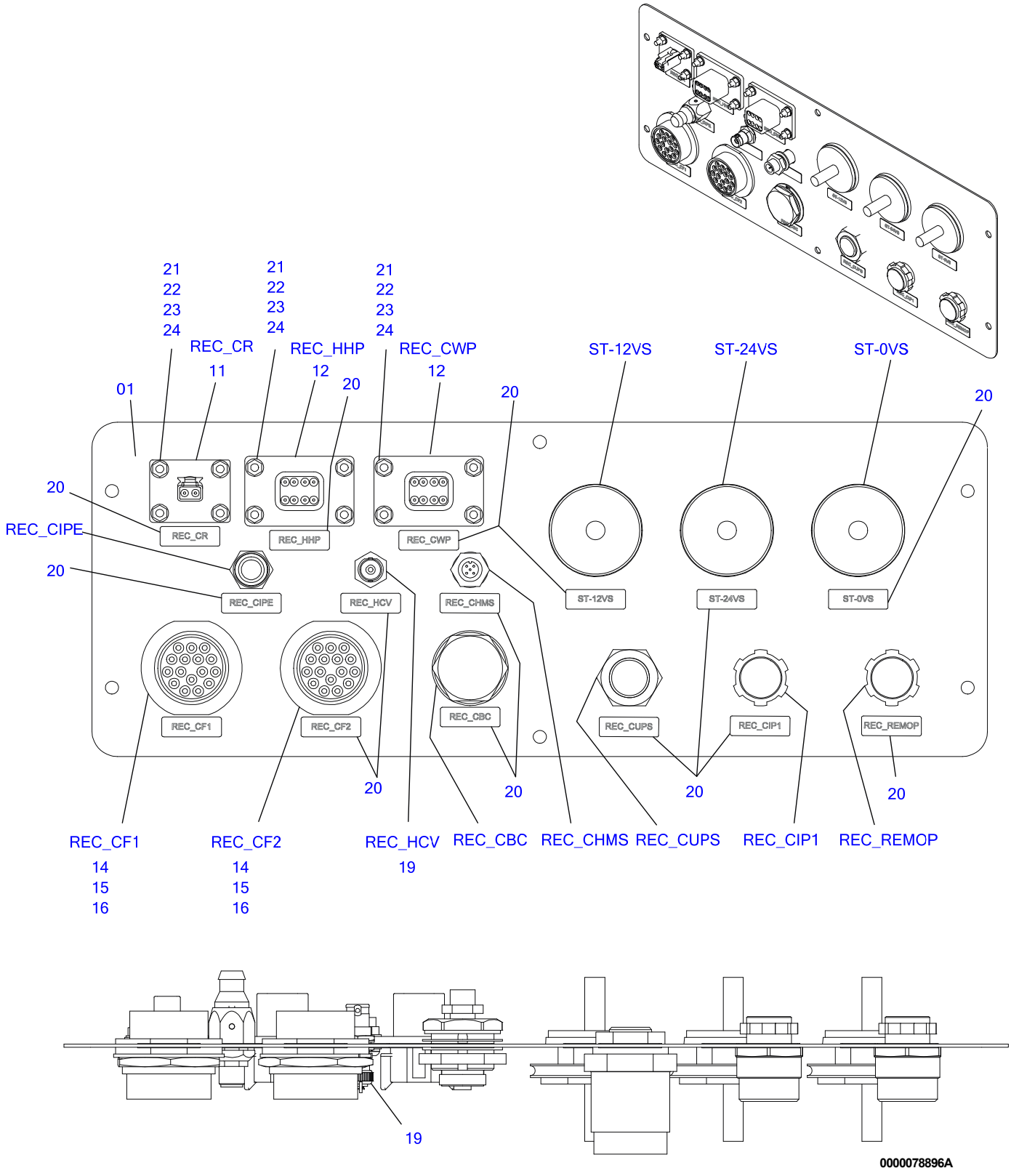
Item	Part No.	Description	Qty.	Unit	Page
33	R80892D1	▪ PLATE, Partition	3		
34	R90745D1	▪ BLOCK, Terminal (Spring Cage)	68		
35	R90745D4	▪ BLOCK, Terminal (Spring Cage Ground)	1		
36	R90745D2	▪ COVER, End	4		
37	R90745D3	▪ PLATE, Partition	1		
38	R82385D2	▪ BRIDGE, Plug-In, 3 Position	8		
39	R82385D1	▪ BRIDGE, Plug-In, 2 Position	1		
40	R90705D1	▪ MARKER, Terminal Block - No. 101-110	3		
41	R90705D2	▪ MARKER, Terminal Block - No. 111-120	3		
42	R90705D3	▪ MARKER, Terminal Block - No. 121-130	1		
43	R90705D11	▪ MARKER, Terminal Block - No. 201-210	3		
44	R90705D12	▪ MARKER, Terminal Block - No. 211-220	3		
45	R90705D13	▪ MARKER, Terminal Block - No. 221-230	1		
46	R90706D1	▪ MARKER, Terminal Block - No. 1-10	2		
47	R90621D1	▪ MARKER, Terminal Block - No. 1-10	2		
48	R90621D2	▪ MARKER, Terminal Block - No. 11-20	1		
49	R82378D2	▪ BRIDGE, Plug-In, 3 Position	1		
50	20Z1684D1	▪ RIVET, Flat Hd	21		
51	0836M04012	▪ SCREW, Button Hd Cap	12		
52	0630M04020	▪ SCREW, Socket Hd	2		
53	0836M05012	▪ SCREW, Button Hd Cap	20		
54	0836M05025	▪ SCREW, Button Hd Cap	4		
55	3612M004	▪ WASHER, Plain	12		
56	3612M005	▪ WASHER, Plain	20		
57	3615M004	▪ WASHER, Lock	12		
58	3615M005	▪ WASHER, Lock	20		
59	R102653D1	▪ DECALS, Cab Control Panel	1		
60	R109496F70	▪ WIRE LIST, Operator Cab, Cabinet Subpanel	1		228
61	R90548D26	▪ FUSE, 30A	1		

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WIRE LIST, OPERATOR CAB, CABINET SUBPANEL (NOT ILLUSTRATED)

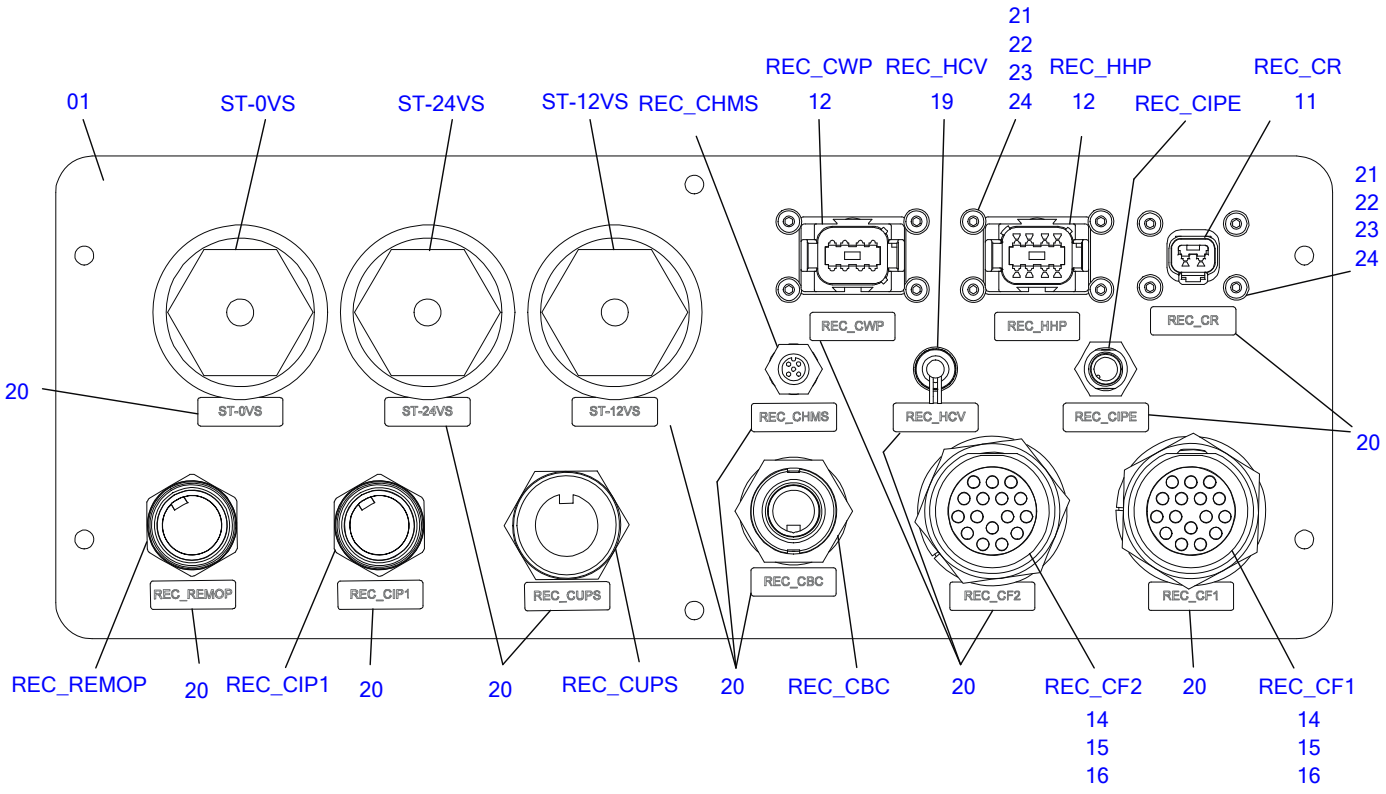
Item	Part No.	Description	Qty.	Unit
	R109496F70	WIRE LIST, Operator Cab, Cabinet Subpanel		
01		・CABLE, 10 AWG, 105 Strand, Green	1	
	208481415	・・CABLE, 10 AWG, Green	5	Foot
02		・CABLE, 12 AWG, 65 Strand, Black	1	
	208481356	・・CABLE, 12 AWG, Black	9	Foot
03		・CABLE, 12 AWG, 65 Strand, Red	1	
	208481357	・・CABLE, 12 AWG, Red	28	Foot
04		・CABLE, 14 AWG, 41 Strand, Black	1	
	208481290	・・CABLE, 14 AWG, Black	5	Foot
05		・CABLE, 14 AWG, 41 Strand, Green	1	
	208481294	・・CABLE, 14AWG, Green	12	Foot
06		・CABLE, 14 AWG, 41 Strand, Red	1	
	208481291	・・CABLE, 14 AWG, Red	30	Foot
07		・CABLE, 16 AWG, 26 Strand, Black	1	
	208481190	・・CABLE, 16 AWG, Black	30	Foot
08		・CABLE, 16 AWG, 26 Strand, Red	1	
	208481191	・・CABLE, 16AWG, Red	32	Foot
09		・CABLE, 6 AWG, 133 Strand, Black	1	
	208481537	・・CABLE, 6AWG, Black	5	Foot
10	R76293D1	・CABLE W/ CONNECTOR, 6-Pole	1	
11	R76294D1	・CABLE W/ CONNECTOR, 14-Pole	2	
12	R76295D1	・CABLE W/ CONNECTOR, 18-Pole	2	

INTERFACE PLATE ASSEMBLY, CAB



TOP VIEW (FACING CABINET)

INTERFACE PLATE ASSEMBLY, CAB



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BOTTOM VIEW (FACING EXTERIOR OF CAB)

INTERFACE PLATE ASSEMBLY, CAB

Item	Part No.	Description	Qty.
	R98025F3	INTERFACE PLATE ASSEMBLY, CAB	
01	R98025D3	▪ PLATE, Electrical Interface	1
ST-12VS	R80716D1	▪ BULKHEAD, Power Stud, Red	1
ST-24VS	R80716D1	▪ BULKHEAD, Power Stud, Red	1
ST-0VS	R80717D1	▪ BULKHEAD, Power Stud, Black	1
REC_CBC	R90652T80D100	▪ RECEPTACLE, Can Bus Communications	1
REC_CUPS	R90654T60D100	▪ RECEPTACLE, UPS	1
REC_CIP1	R90656T60D100	▪ RECEPTACLE, Cab Tele-Op Interface Plate	1
REC_REMOP	R90656T60D100	▪ RECEPTACLE, Cab Tele-Op Interface Plate	1
REC_CIPE	R90653T63D120	▪ RECEPTACLE, Ethernet	1
REC_CR	R98959D1	▪ RECEPTACLE, Refrigerator	1
REC_HHP	R98959D14	▪ RECEPTACLE, Flange Mount	1
REC_CWP	R98959D15	▪ RECEPTACLE, Washer Pump	1
11	R99498D1	▪ WEDGELOCK, 2 Pin	1
12	R99498D5	▪ WEDGELOCK, 8 Pin	2
REC_CF1	R90727D10	▪ CONNECTOR, 16 Pin	1
REC_CF2	R90727D10	▪ CONNECTOR, 16 Pin	1
14	R90727D5	▪ CONNECTOR, Lock Washer	2
15	R90727D6	▪ CONNECTOR, Nut	2
16	R90727D11	▪ GASKET	2
REC_CHMS	R4266255	▪ RECEPTACLE, Cooling Comp/Hyd Fan 1 Speed	1
REC_HCV	R102791D1	▪ RECEPTACLE, Hawkeye Camera Video	1
19	R62628D1	▪ CAP	1
20	R102808D1	▪ DECALS	2
21	0836M04016	▪ SCREW, Button Hd Cap	12
22	3615M004	▪ WASHER, Lock	12
23	3612M004	▪ WASHER, Plain	24
24	2104M004	▪ NUT, Hex	12

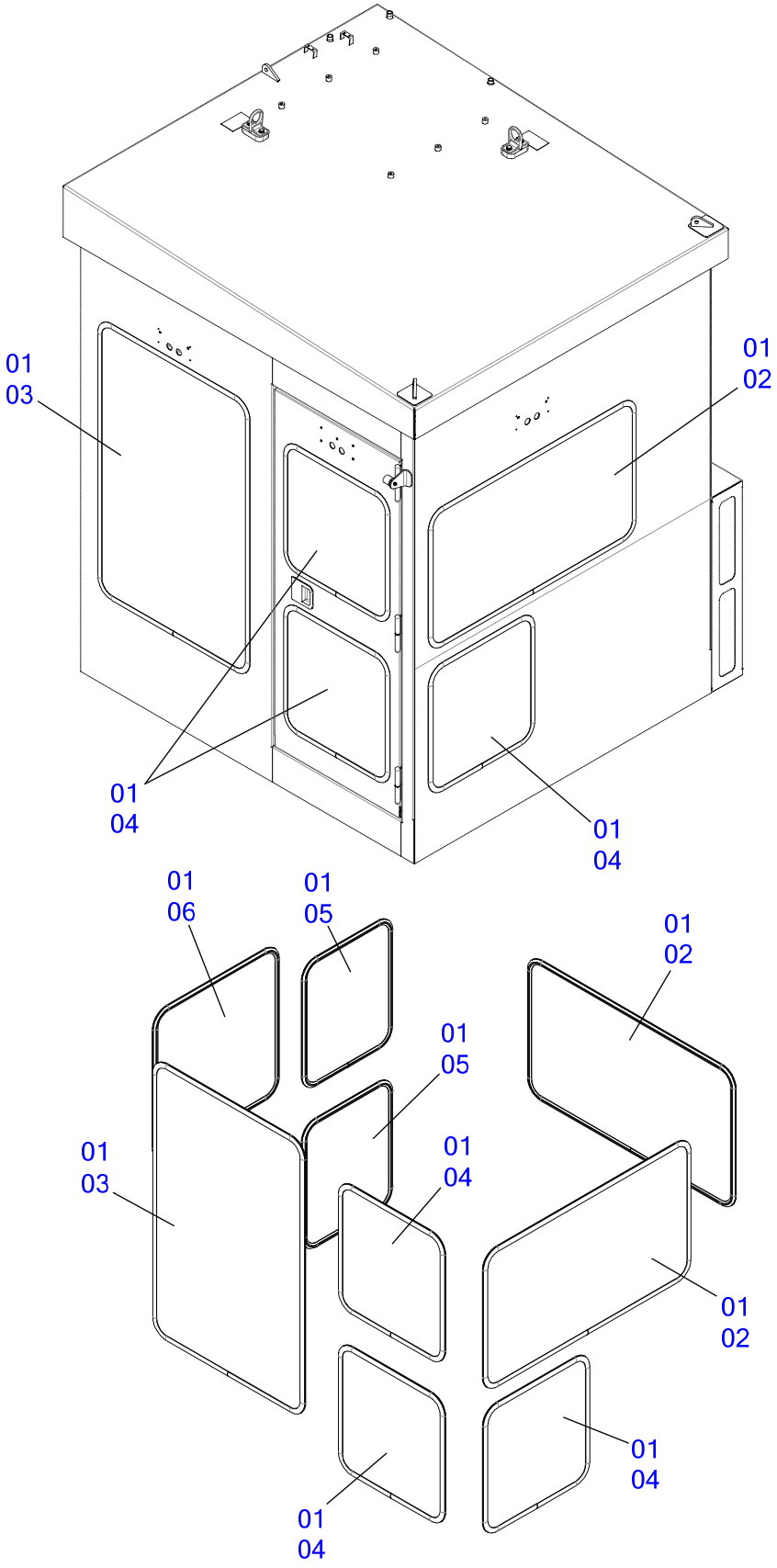
WIRE LIST, OPERATOR CAB CABINET (NOT ILLUSTRATED)

Item	Part No.	Description	Qty.	Unit
	R109496F69	WIRE LIST, OPERATOR CAB CABINET		
01		・CABLE, 14AWG, Black	1	
	208481290	・・CABLE, 14AWG, Black	57	Foot
02		・CABLE, 14AWG, Red	1	
	208481291	・・CABLE, 14AWG, Red	128	Foot
03		・CABLE, 16AWG, Black	1	
	208481190	・・CABLE, 16AWG, Black	?	Foot
04		・CABLE, 16AWG, Red	1	
	208481191	・・CABLE, 16AWG, Red	65	Foot
05		・CABLE, 6AWG, Red	1	
	208481535	・・CABLE, 6AWG, Red	5	Foot
06		・CABLE, 4/0AWG, Black	1	
	505581722	・・CABLE, 4/0AWG, Black	9	Foot
07	79Z810D5	・TERMINAL	2	
08	R44437D6	・CABLE, Ethernet Patch	1	
09	R84897D5	・CONTACT PIN, Receptacle	8	
10	R90650T16D200	・CABLE, w/ Plug	2	
11	R92458D6	・CONTACT SOCKET, Plug	25	
12	R38227D21	・TERMINAL, Lugs	2	
13	R90727D7	・PLUG, Sealing	7	
14	R84897D7	・CONTACT PIN, Receptacle	2	
15	R92456D5	・CONTACT PIN, Receptacle	5	
16		・CABLE, 12AWG, Black	1	
	208481356	・・CABLE, 12AWG, Black	5	Foot
17		・CABLE, 12AWG, Red	1	
	208481357	・・CABLE #12 AWG, 65 STRD,RED (TYPE SIS)	5	Foot
18		・CABLE, 14AWG, Green	1	
	208481294	・・CABLE, 14AWG, Green	5	Foot

WIRE LIST, INTERNAL, CAB (Not Illustrated)

Item	Part No.	Description	Qty.
	R109496F670	WIRE LIST, INTERNAL, CAB	
W1D1	R109496F670Y1	・CABLE, 16AWG, Black	1
W1D2	R109496F670Y2	・CABLE, 16AWG, Red	1
W1D3	R109496F670Y3	・CABLE, 14AWG, Green	1
CBL404E-241	R109496F670Y4	・CABLE, 16AWG, 3 Cond	1
CBL404E-112	R4268346	・CABLE, USB	1
CBL404E-111	R112537D3	・CABLE, HDMI	1
CBL404E-151	R4268538	・CABLE	1
CBL404E-061	R107151D1	・CABLE, USB	1
CBL407EF-322	R90651T15D100	・CABLE, 5 Pin	1
CBL409A-141	R90651T12D150	・CABLE, 5 Pin	1
CBL409A-221	R90651T12D150	・CABLE, 5 Pin	1
11	R97382D4	・CABLE, Ethernet	1
12	79U2522D8	・TERMINAL LUGS, Solderless	1

WINDOW INSTALLATION, OPERATOR CAB



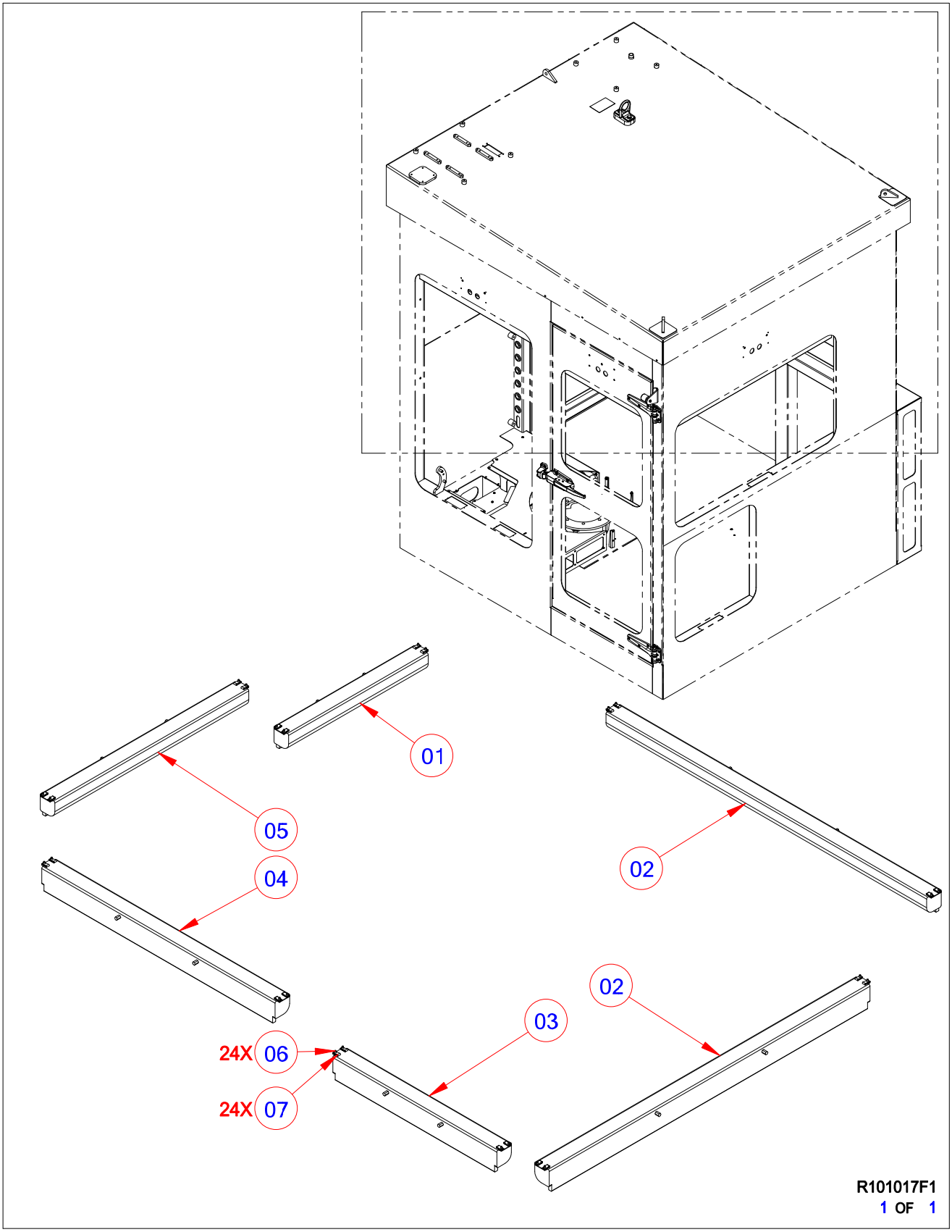
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WINDOW INSTALLATION, OPERATOR CAB

WINDOW INSTALLATION, OPERATOR CAB

Item	Part No.	Description	Qty.	Unit
	R94425F1	WINDOW INSTALLATION, OPERATOR CAB		
01		・STRIP, Weather and Lock	1	
	5011A0002	・・STRIP, Weather and Lock	102	Foot
		・KIT, Window Installation, Glass	1	
02	R94426D2	・・LAMINATED GLASS, Tinted, Rear and Side	2	
03	R94427D1	・・LAMINATED GLASS, Windshield, No Tint	1	
04	R94428D2	・・LAMINATED GLASS, Tinted, Front Door	3	
05	R94429D2	・・LAMINATED GLASS, Tinted, RH Door	2	
06	R94430D2	・・LAMINATED GLASS, Tinted, RH Wall	1	

WINDOW SHADES, OPERATOR CAB

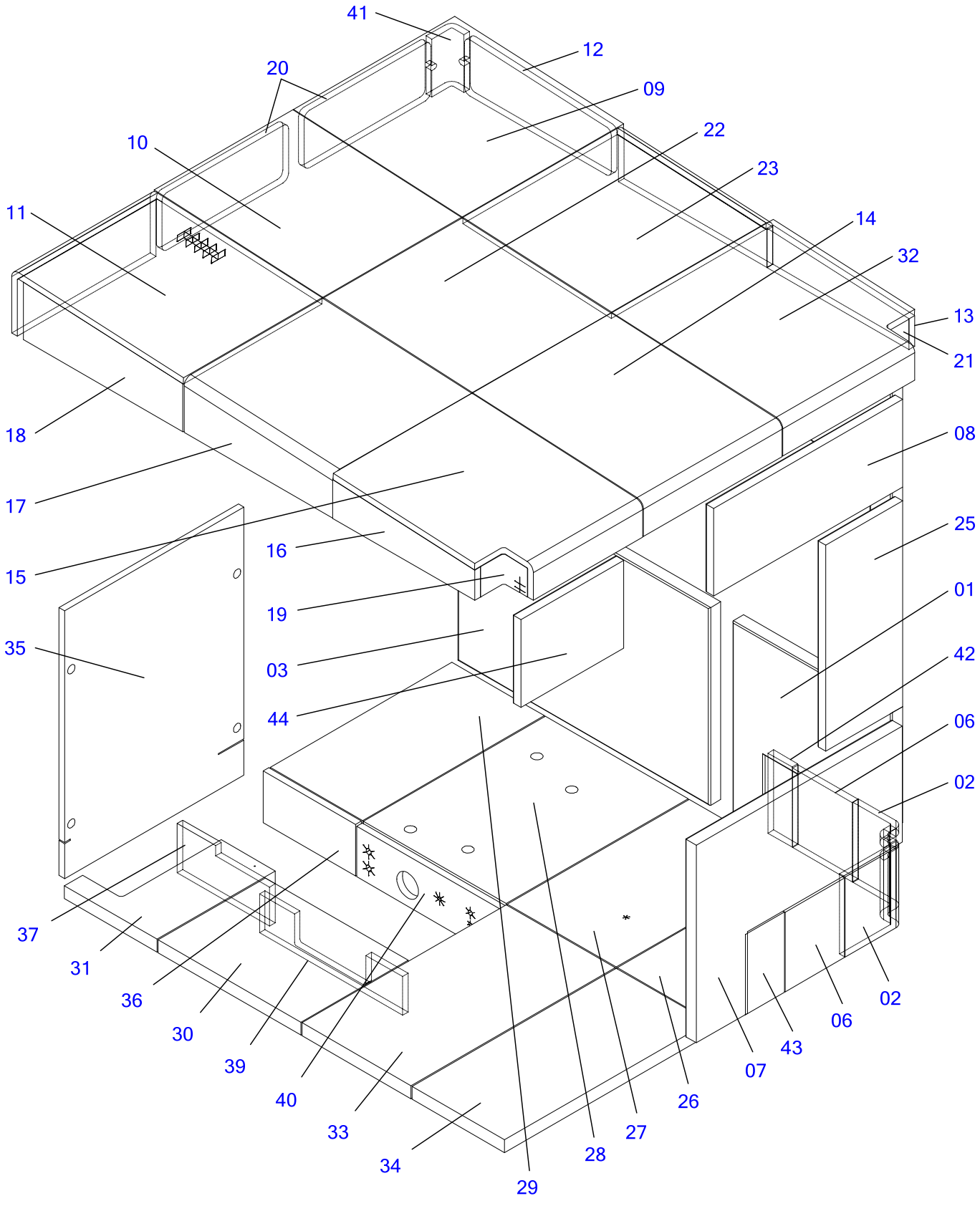


WINDOW SHADES,OP CAB,ASSEMBLY

WINDOW SHADES, OPERATOR CAB

Item	Part No.	Description	Qty.
	R101017F1	WINDOW SHADES, OPERATOR CAB	
01	R98106D1	▪ WINDOW SHADE, Cantilever Arm	1
02	R97544D1	▪ WINDOW SHADE, Cantilever Arm	2
03	R97545D1	▪ WINDOW SHADE, Cantilever Arm	1
04	R97546D1	▪ WINDOW SHADE, Cantilever Arm	1
05	R98107D1	▪ WINDOW SHADE, Cantilever Arm	1
06	0836M04012	▪ SCREW, Button Hd Cap	24
07	R80597D1	▪ NUT, Clip-On	24

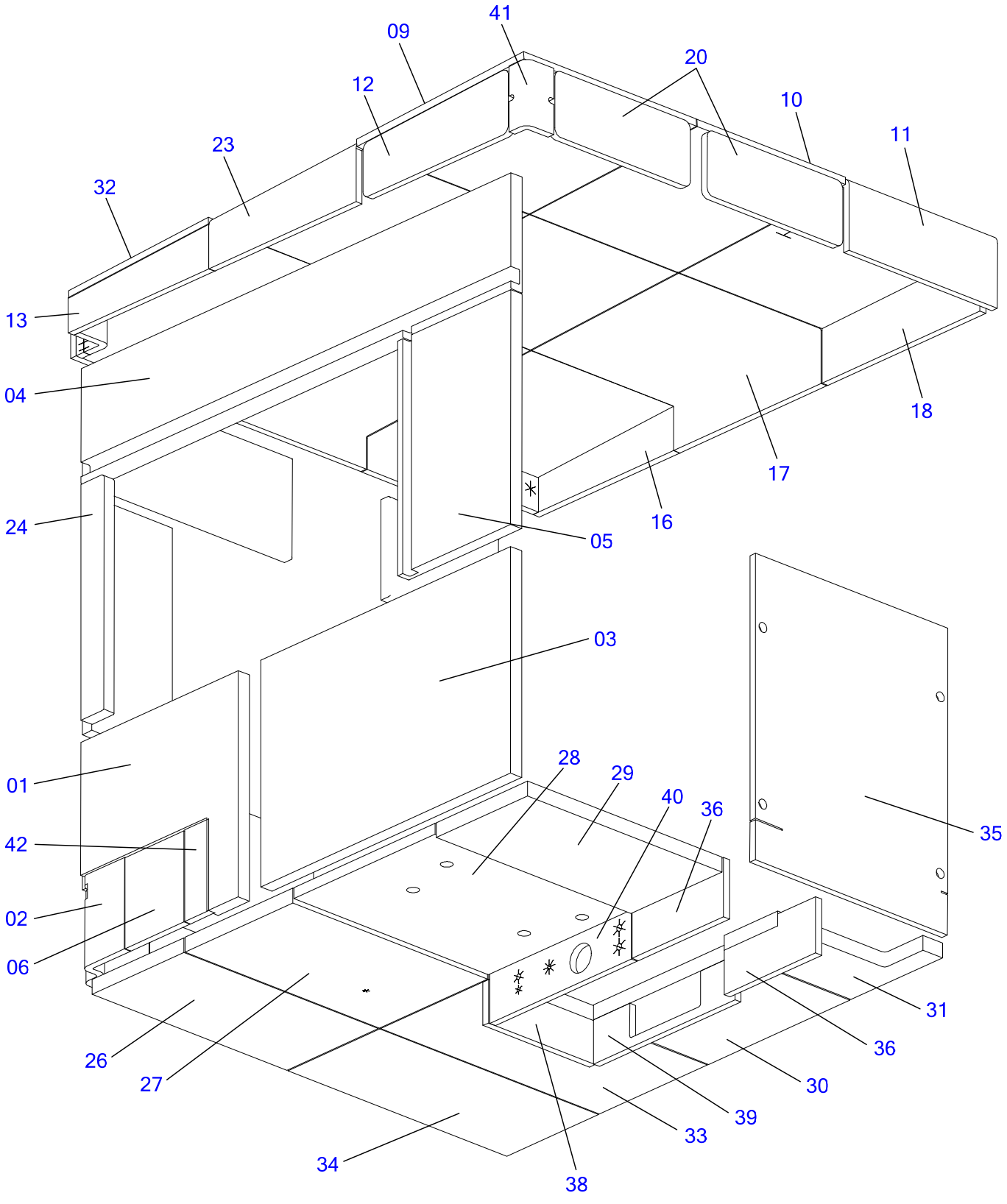
INSULATION INSTALLATION, OPERATOR CAB



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INSTALLATION, OPERATOR CAB INSULATION

INSULATION INSTALLATION, OPERATOR CAB



INSTALLATION, OPERATOR CAB INSULATION

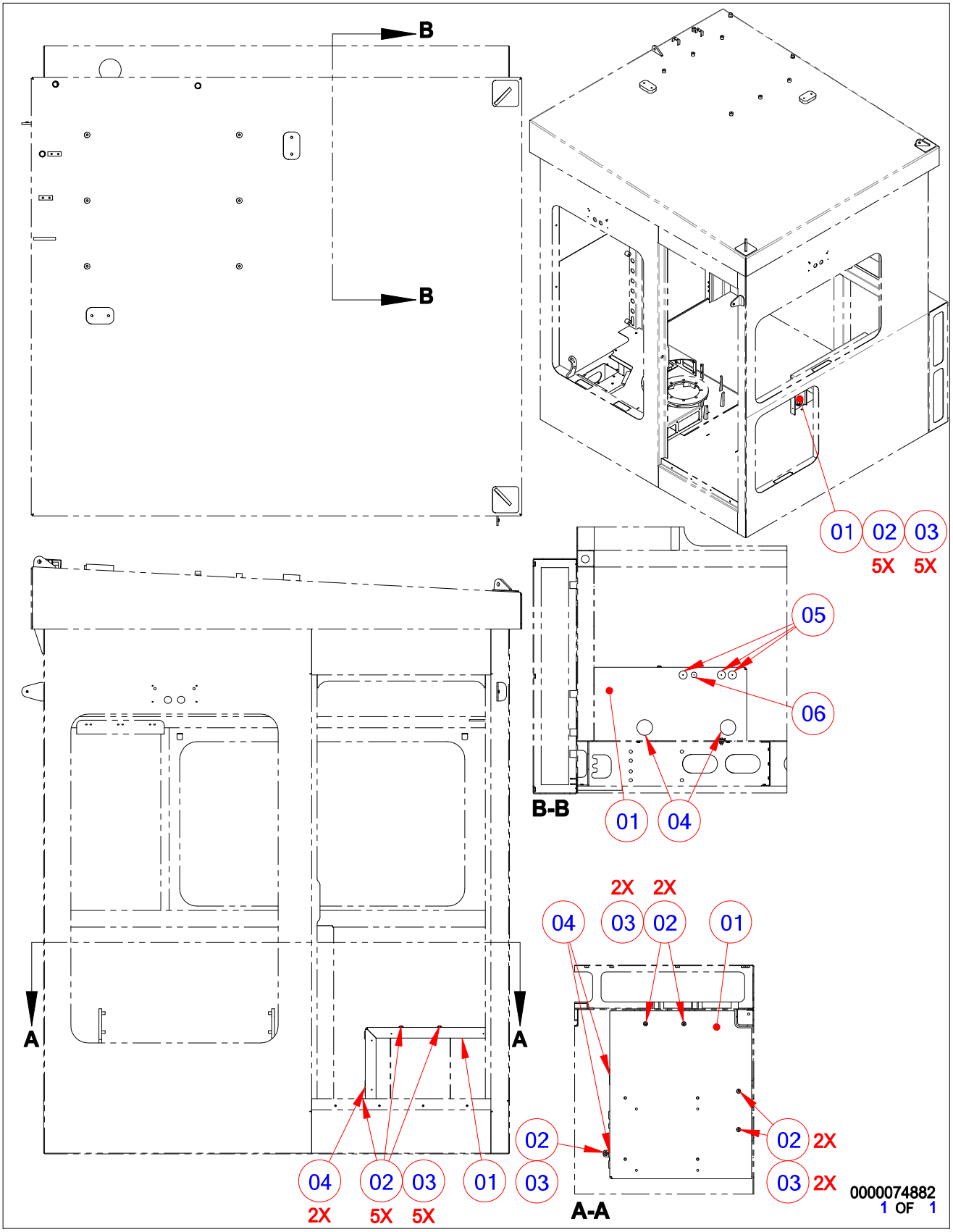
INSULATION INSTALLATION, OPERATOR CAB

Item	Part No.	Description	Qty.
	R102337F1	INSULATION INSTALLATION, OPERATOR CAB	
01	R102338D1	▪ INSULATION, Interior Trim	1
02	R102338D2	▪ INSULATION, Interior	1
03	R102338D3	▪ INSULATION, Interior Trim	1
04	R102338D4	▪ INSULATION, Interior Trim	1
05	R102338D5	▪ INSULATION, Interior Trim	1
06	R102338D6	▪ INSULATION, Interior	2
07	R102338D7	▪ INSULATION, Interior Trim	1
08	R102338D8	▪ INSULATION, Interior Trim	1
09	R102338D9	▪ INSULATION, Ceiling	1
10	R102338D10	▪ INSULATION, Ceiling	1
11	R102338D11	▪ INSULATION, Ceiling	1
12	R102338D12	▪ INSULATION, Ceiling	1
13	R102338D13	▪ INSULATION, Ceiling	1
14	R102338D14	▪ INSULATION, Ceiling	1
15	R102338D15	▪ INSULATION, Ceiling	1
16	R102338D16	▪ INSULATION, Ceiling	1
17	R102338D17	▪ INSULATION, Ceiling	1
18	R102338D18	▪ INSULATION, Ceiling	1
19	R102338D19	▪ INSULATION, Ceiling	1
20	R102338D20	▪ INSULATION, Ceiling	2
21	R102338D21	▪ INSULATION, Ceiling	1
22	R102338D22	▪ INSULATION, Ceiling	1
23	R102338D23	▪ INSULATION, Ceiling	1
24	R102338D24	▪ INSULATION, Interior Trim	1
25	R102338D25	▪ INSULATION, Interior Trim	1
26	R102338D26	▪ INSULATION, Floor	1
27	R102338D27	▪ INSULATION, Floor	1
28	R102338D28	▪ INSULATION, Floor	1
29	R102338D29	▪ INSULATION, Floor	1
30	R102338D30	▪ INSULATION, Floor	1
31	R102338D31	▪ INSULATION, Floor	1
32	R102338D32	▪ INSULATION, Ceiling	1
33	R102338D33	▪ INSULATION, Floor	1
34	R102338D34	▪ INSULATION, Floor	1
35	R102338D35	▪ INSULATION, Interior	1
36	R102338D36	▪ INSULATION, Floor	1
37	R102338D37	▪ INSULATION, Floor	1
38	R102338D38	▪ INSULATION, Floor	1
39	R102338D39	▪ INSULATION, Floor	1

INSULATION INSTALLATION, OPERATOR CAB

Item	Part No.	Description	Qty.
40	R102338D40	▪ INSULATION, Floor	1
41	R102338D41	▪ INSULATION, Interior	1
42	R102338D42	▪ INSULATION, Interior	1
43	R102338D43	▪ INSULATION, Interior	1
44	R102338D44	▪ INSULATION, Interior	1

SHROUD ASSEMBLY, REFRIGERATOR, STANDARD

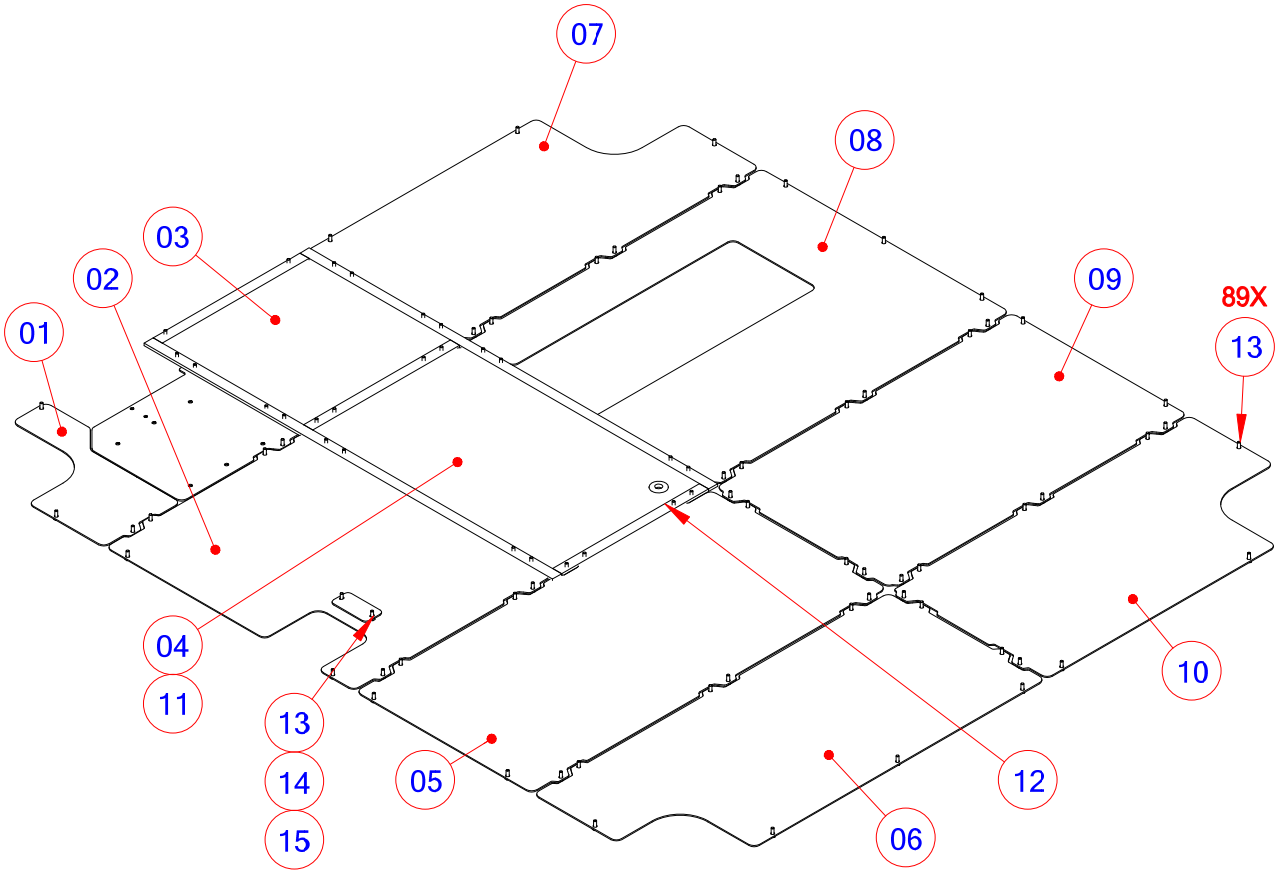


SHROUD ASSEMBLY, REFRIGERATOR, STANDARD

SHROUD ASSEMBLY, REFRIGERATOR, STANDARD

Item	Part No.	Description	Qty.
	R97560F1	SHROUD ASSEMBLY, REFRIGERATOR, STANDARD	
01	R97647D1	▪ SHROUD, Refrigerator, Drawer	1
02	0836M10025	▪ SCREW, Button Hd Cap	5
03	3612M010	▪ WASHER, Plain	5
04	R94424D26	▪ HOLE PLUG	2
05	R94423D12	▪ HOLE PLUG	3
06	R94423D4	▪ HOLE PLUG	1

INSTALLATION, COVER PLATES, CAB BOTTOM



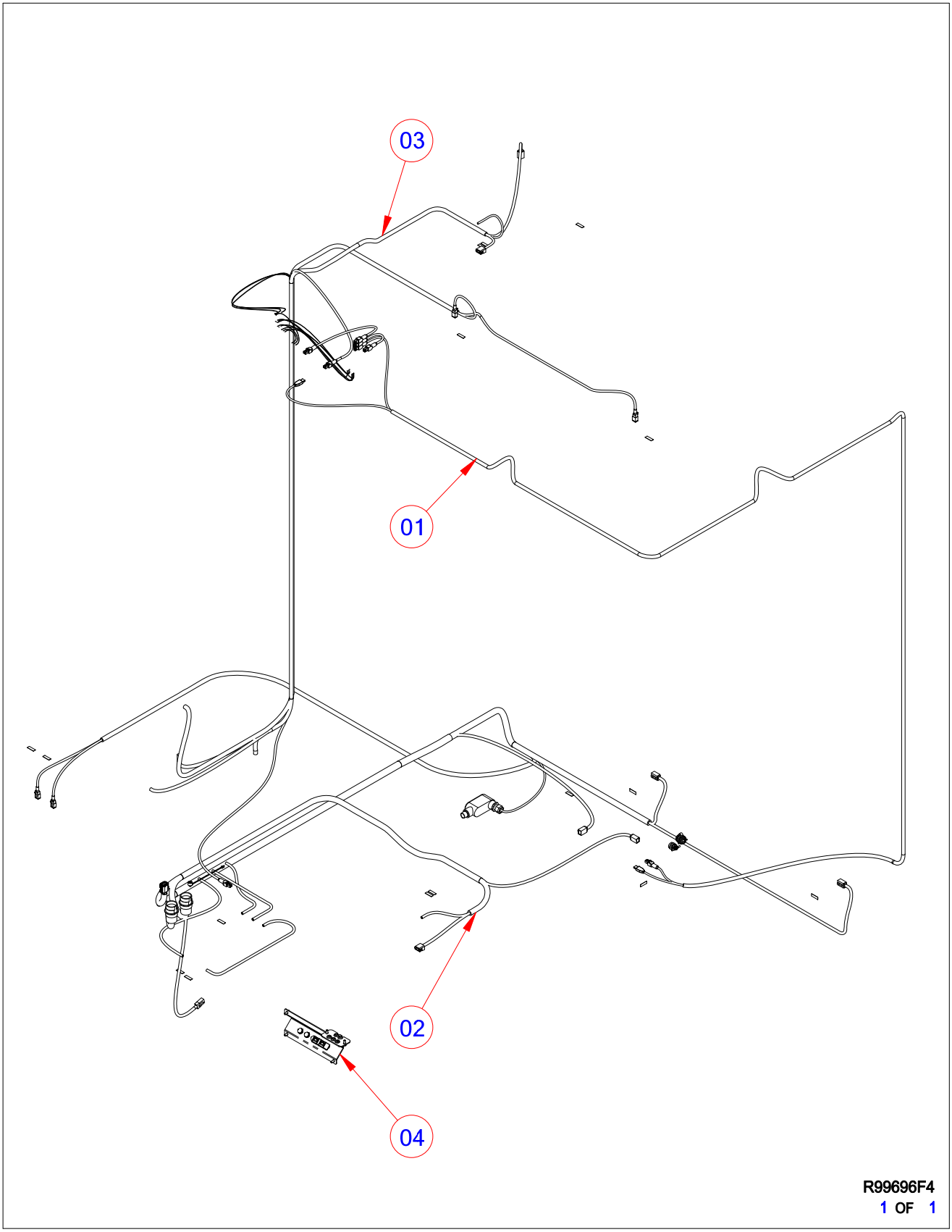
R101293F1
1 OF 1

INSTALL,CAB BOTTOM COVER PLATES

INSTALLATION, COVER PLATES, CAB BOTTOM

Item	Part No.	Description	Qty.
	R101293F1	INSTALLATION, COVER PLATES, CAB BOTTOM	
01	R101293D1	▪ COVER PLATE, Hinged	1
02	R101293D2	▪ COVER PLATE	1
03	R101293D3	▪ COVER PLATE	1
04	R101293D4	▪ COVER PLATE	1
05	R101293D5	▪ COVER PLATE	1
06	R101293D6	▪ COVER PLATE	1
07	R101293D7	▪ COVER PLATE	1
08	R101293D8	▪ COVER PLATE	1
09	R101293D9	▪ COVER PLATE	1
10	R101293D10	▪ COVER PLATE	1
11	R98814D100	▪ GROMMET, Push-In, Rubber	1
12	R98956D2	▪ FOAM, Adhesive Backed	1
13	0825M06016	▪ BOLT, Hex Hd	89
14	R107802D1	▪ PLATE, Cover	1
15	3612M006	▪ WASHER, Plain	2

CABLE ASSEMBLY, OPERATOR CAB, STANDARD

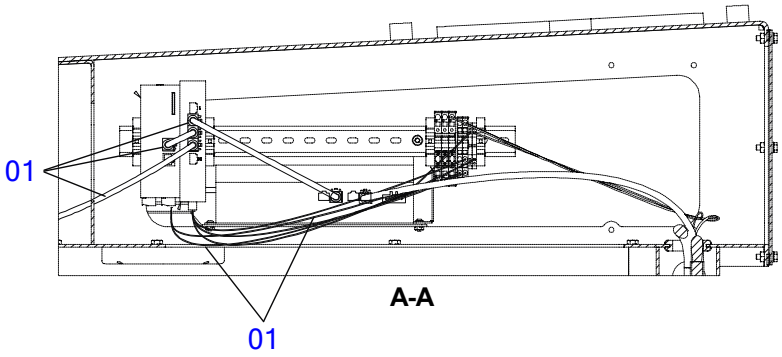


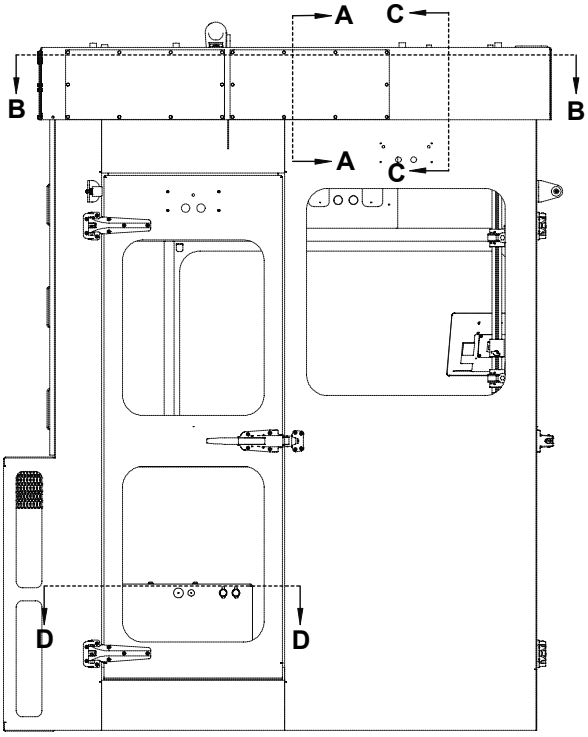
GATHER,CABLES,OP CAB,STANDARD

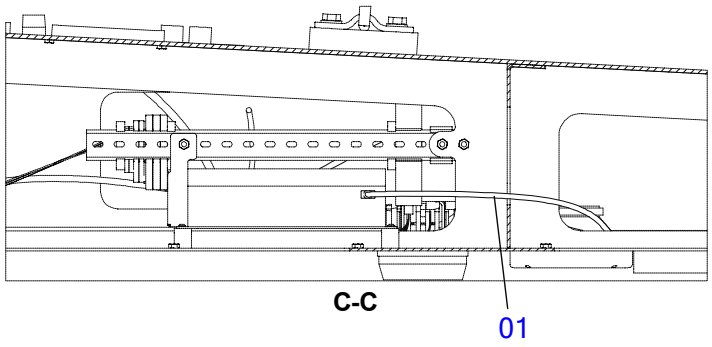
CABLE ASSEMBLY, OPERATOR CAB, STANDARD

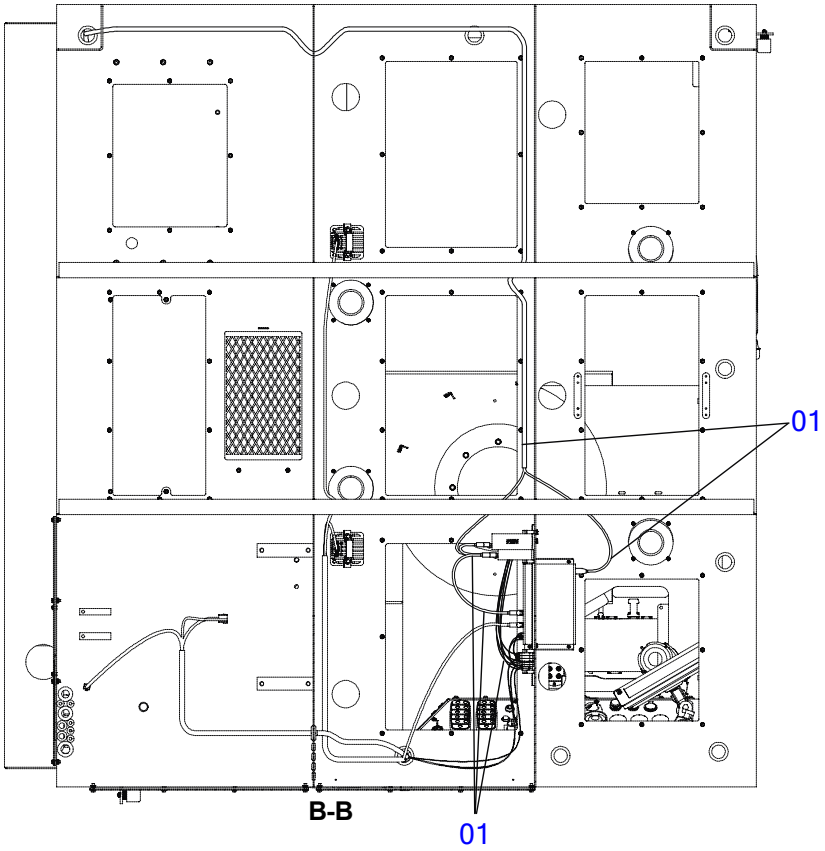
Item	Part No.	Description	Qty.	Page
	R99696F4	CABLE ASSEMBLY, OPERATOR CAB, STANDARD		
01	R89725F64	▪ CABLE INSTALLATION, Prevail	1	238
02	R109497F65	▪ CABLE INSTALLATION, Cab Floor	1	239
03	R109497F660	▪ CABLE INSTALLATION, Cab Ceiling	1	240
04	R108638F1	▪ INSTALLATION, Automation, Electrical Components	1	241

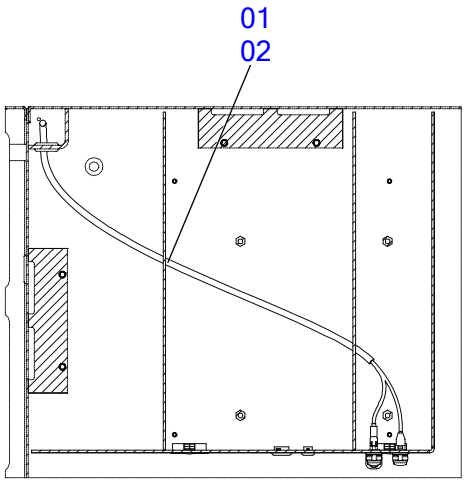
CABLE INSTALLATION, PREVAIL









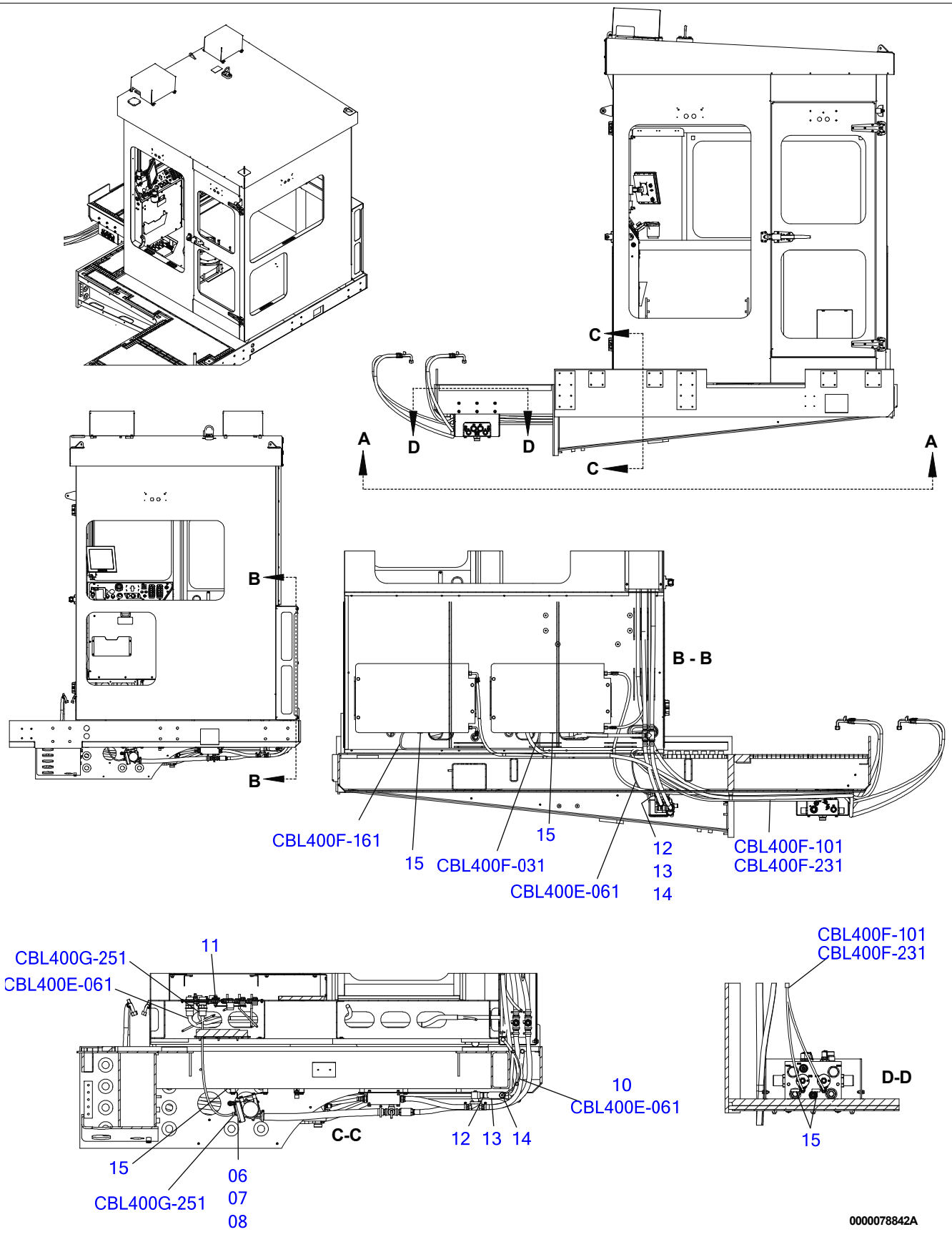


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CABLE INSTALLATION, PREVAIL

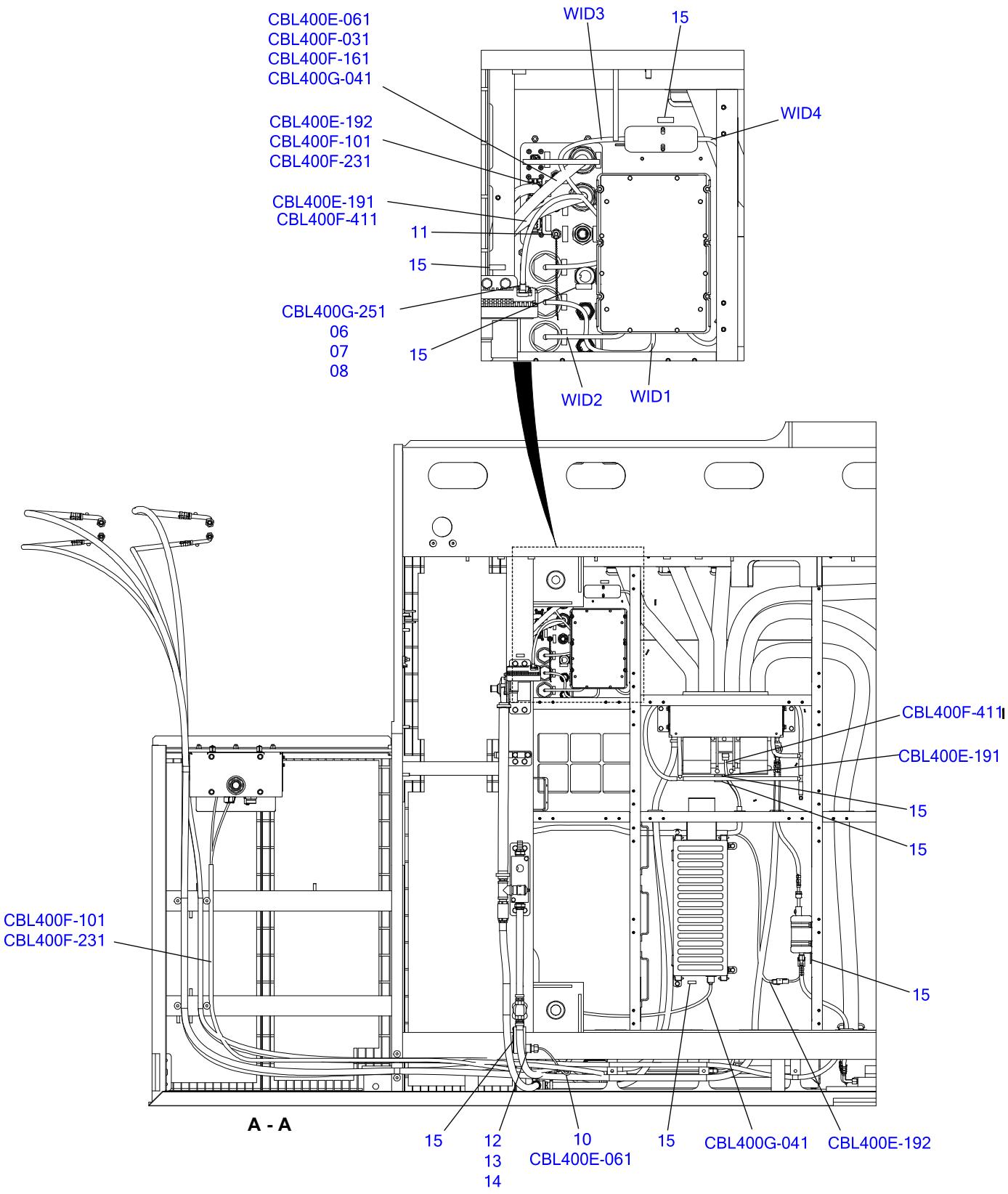
Item	Part No.	Description	Qty.	Unit
	R89725F64	CABLE INSTALLATION, PREVAIL		
	R89740F64	・WIRE LIST, PREVAIL	1	
		・・CABLE, 16AWG, Black	1	
01	208481190	・・・CABLE, 16AWG, Black	6	Foot
		・・CABLE, 16AWG, Green	1	
	208481194	・・・CABLE, 16AWG, Green	6	Foot
		・・CABLE, 16AWG, Red	1	
	208481191	・・・CABLE, 16AWG, Red	6	Foot
	R92286D1	・・POWER CABLE, Refrigerator	2	
	R44437D3	・・CABLE, Ethernet	1	
	R107151D3	・・CABLE, USB	1	
02	R88249D1	・TIE, Wire	6	

CABLE INSTALLATION, CAB, FLOOR



CABLE INSTALLATION, CAB, FLOOR

CABLE INSTALLATION, CAB, FLOOR



SECTION A-A

KOMATSU

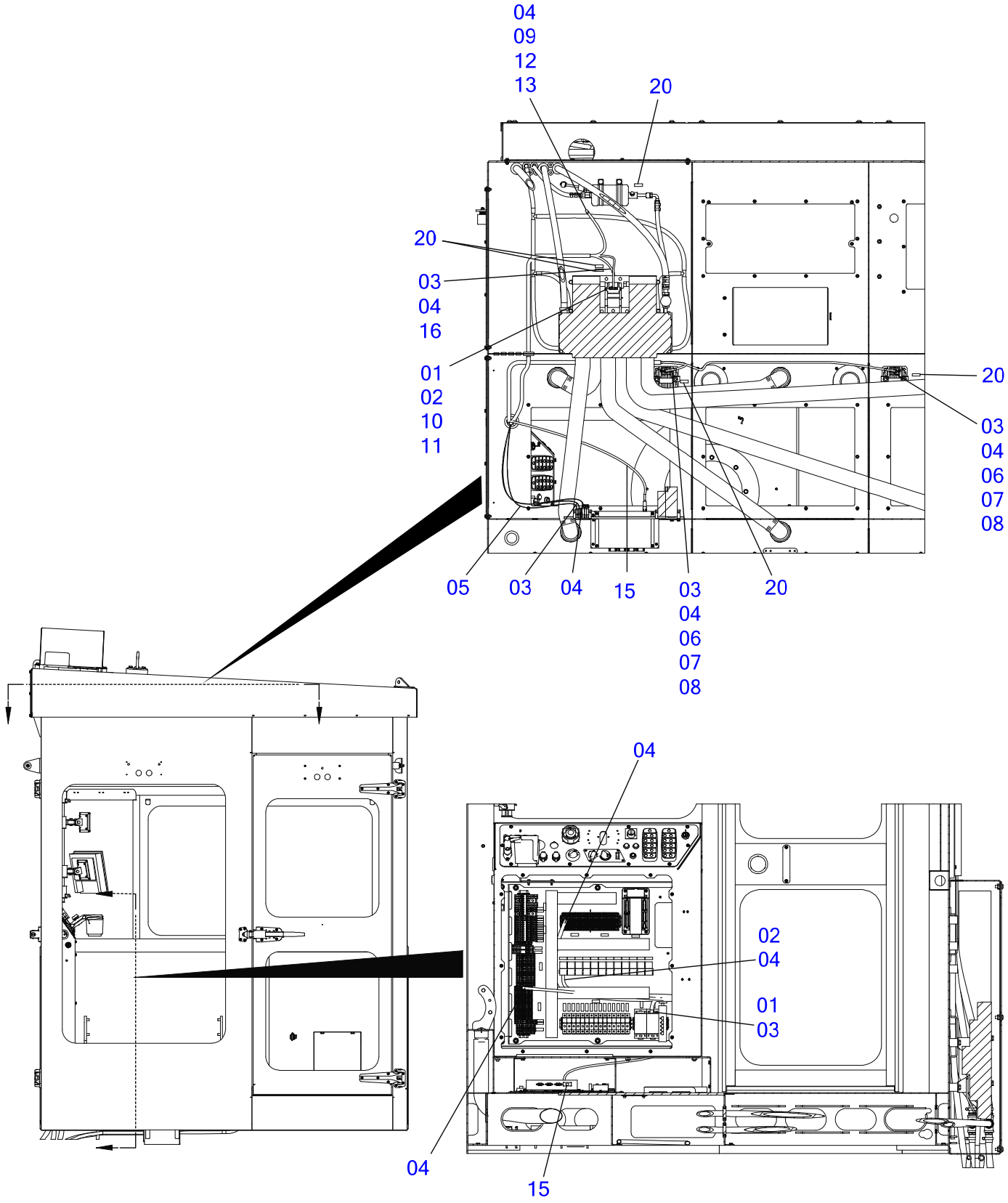
CABLE INSTALLATION, CAB, FLOOR

Item	Part No.	Description	Qty.
	R109497F65	CABLE INSTALLATION, CAB, FLOOR	
WID2	R109497F65Y1	· CABLE, 6AWG, Black	1
WID1	R109497F65Y2	· CABLE, 6AWG, Red	1
WID3	R109497F65Y2	· CABLE, 6AWG, Red	
WID4	R109497F65Y2	· CABLE, 6AWG, Red	
CBL400F-161	R109692D1	· CABLE ASSEMBLY, Cab Floor 1	1
	508780252	· · CABLE, 14AWG, 4 Cond	1
	R92457D2	· · CONNECTOR, Plug, 4 Pin	1
	R84897D8	· · CONTACT SOCKET, Plug	4
	R92457D4	· · PLUG, Locking Wedge, 4 Pin	1
CBL400F-031	R109692D1	· CABLE ASSEMBLY, Cab Floor 1	1
	508780252	· · CABLE, 14AWG, 4 Cond	1
	R92457D2	· · CONNECTOR, Plug, 4 Pin	1
	R84897D8	· · CONTACT SOCKET, Plug	4
	R92457D4	· · PLUG, Locking Wedge, 4 Pin	1
CBL400E-061	R109692D1	· CABLE ASSEMBLY, Cab Floor 1	1
	508780251	· · CABLE, 14AWG, 3 Cond	1
	R90727D8	· · CONNECTOR, 16 Pin	1
	R90727D7	· · SEALING PLUG	1
	R92458D5	· · CONTACT PIN, Receptacle	15
CBL400G-041	R109692D1	· CABLE ASSEMBLY, Cab Floor 1	1
	508780252	· · CABLE, 14AWG, 4 Cond	1
	R92458D22	· · CONNECTOR, Plug, 4 Pin	1
	R92458D6	· · CONTACT SOCKET, Plug	4
	R92458D32	· · PLUG, Locking Wedge, 4 Pin	1
CBL400G-251	R109694D1	· CABLE ASSEMBLY, Cab Floor 2	1
	R109694Y3	· · CABLE, 12AWG, 3 Cond	1
	R92458D5	· · CONTACT PIN, Receptacle	3
	R92458D25	· · CONNECTOR, Plug, 4 Pin	1
	R92458D6	· · CONTACT SOCKET, Plug	3
	R90727D7	· · SEALING PLUG	1
	R92458D32	· · PLUG, Locking Wedge, 4 Pin	1
CBL400E-191	R109694D1	· CABLE ASSEMBLY, Cab Floor 2	1
	508780251	· · CABLE, 14AWG, 3 Cond	1
	R90727D8	· · CONNECTOR, 16 Pin	1
	R90727D7	· · SEALING PLUG	6
	R92458D5	· · CONTACT PIN, Receptacle	3
	79Z1129D7	· · TERMINAL, Insulated, Female	3
CBL400F-411	R109694D1	· CABLE ASSEMBLY, Cab Floor 2	1
	508780252	· · CABLE, 14AWG, 4 Cond	1

CABLE INSTALLATION, CAB, FLOOR

Item	Part No.	Description	Qty.
	R92458D5	・・CONTACT PIN, Receptacle	4
	R99938D1	・・CONNECTOR, 4 Pin, Female, Body	1
	R99938D2	・・CONNECTOR, 4 Pin, Female, Terminal	4
CBL400F-101	R109695D1	・CABLE ASSEMBLY, Heater Hydr Proportional	1
	508780150	・・CABLE, 16AWG, 2 Cond	1
	R84897D2	・・CONNECTOR, Plug, 2 Pin	1
	R84897D4	・・PLUG, Locking Wedge, 2 Pin	1
	R84897D6	・・CONTACT SOCKET, Plug	2
CBL400F-231	R109695D1	・CABLE ASSEMBLY, Heater Hydr Proportional	1
	508780150	・・CABLE, 16AWG, 2 Cond	1
	R84897D2	・・CONNECTOR, Plug, 2 Pin	1
	R84897D4	・・PLUG, Locking Wedge, 2 Pin	1
	R84897D6	・・CONTACT SOCKET, Plug	2
CBL400E-192	R109695D1	・CABLE ASSEMBLY, Heater Hydr Proportional	1
	508780152	・・CABLE, 16AWG, 4 Cond	1
	R99502D2	・・CONNECTOR, Plug, 8 Pin	1
	R99502D4	・・PLUG, Locking Wedge, 8 Pin	1
	R92457D2	・・CONNECTOR, Plug, 4 Pin	1
	R92457D4	・・PLUG, Locking Wedge, 4 Pin	1
	R87897D6	・・CONTACT SOCKET, Plug	12
06	R94604D8	・CONNECTOR, Plug, 6-Pin	1
07	R94604D20	・WEDGE LOCK, Plug, 6-Pin	1
08	R90727D7	・SEALING PLUG	6
09	79Z810D8	・TERMINAL (Not Shown)	6
10	R66036D1	・CONNECTOR, Cage Clamp (2 Wire)	3
11	R84513D1	・CAP, w/ Chain	1
12	2419V102	・NIPPLE, Close	1
13	R91787D1	・PULL ELBOW, 90 Degree	1
14	85Z24D2	・GRIP, Cord	1
15	R109712D1	・DECALS	1
16	R88249D1	・TIE, Wire (Not Shown)	10

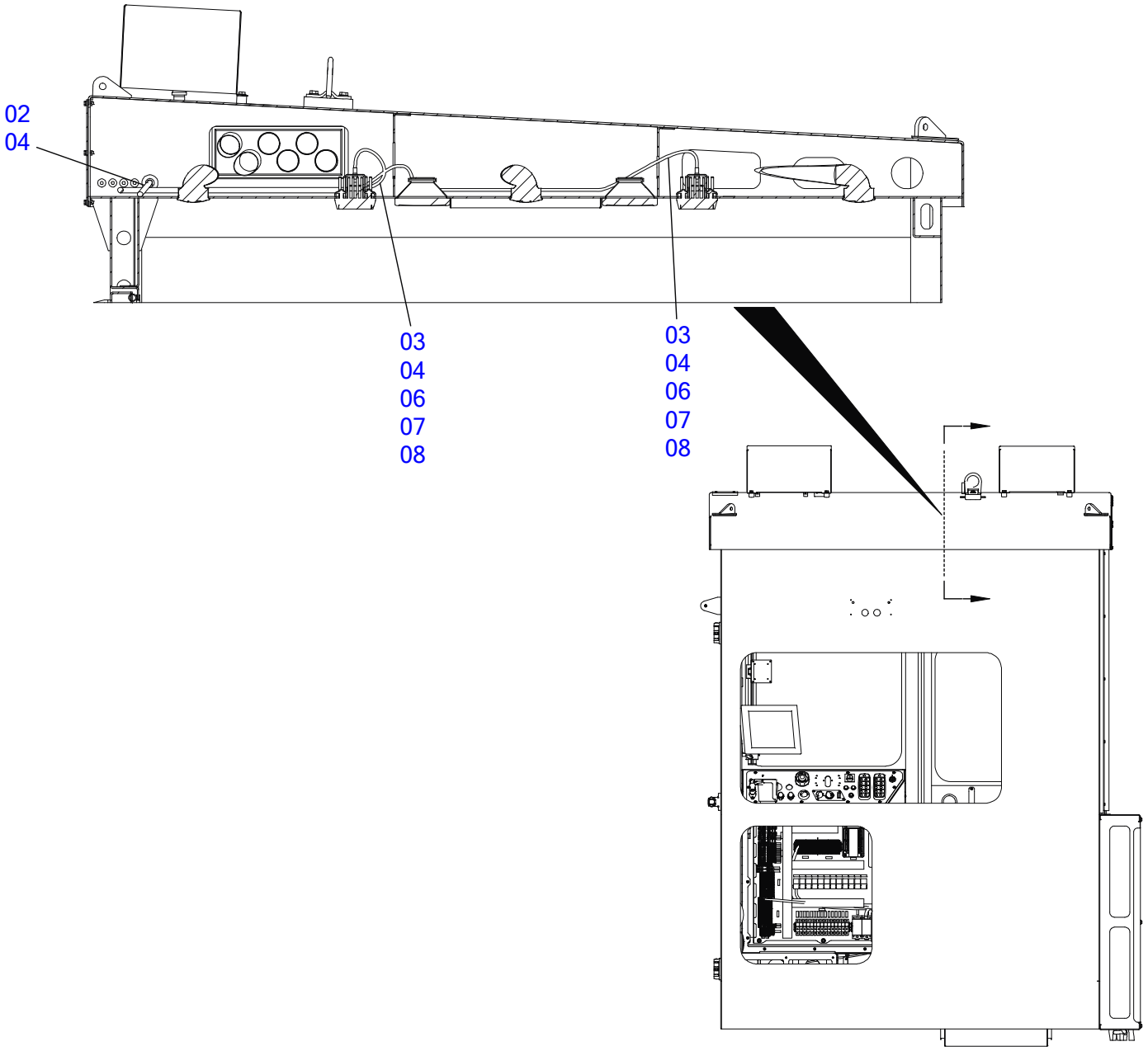
CABLE INSTALLATION, CAB, CEILING



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CABLE INSTALLATION, CAB, CEILING

CABLE INSTALLATION, CAB, CEILING

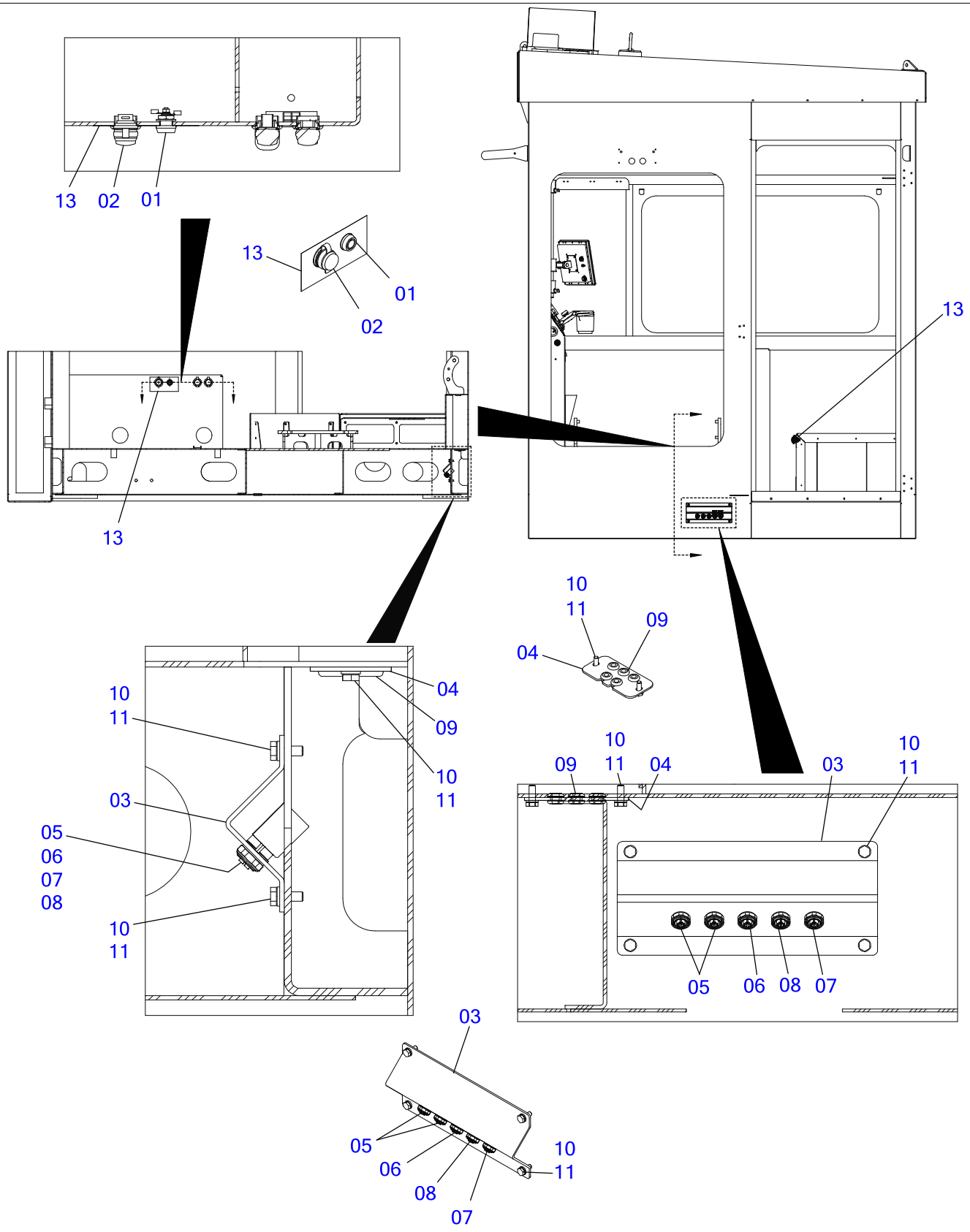


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CABLE INSTALLATION, CAB, CEILING

Item	Part No.	Description	Qty.
	R109497F660	CABLE INSTALLATION, CAB, CEILING	
01	R109497F660Y1	▪ CABLE, 14AWG, Black	1
02	R109497F660Y2	▪ CABLE, 14AWG, Red	1
03	R109497F660Y3	▪ CABLE, 16AWG, Black	1
04	R109497F660Y4	▪ CABLE, 16AWG, Red	1
05	R109497F660Y5	▪ CABLE, 16AWG, Green	1
06	R84897D2	▪ CONNECTOR, Plug	2
07	R84897D4	▪ WEDGE LOCK, Pin	2
08	R84897D6	▪ PLUG, Socket	4
09	R92457D2	▪ CONNECTOR, Plug, 4 Pin	1
10	R99938D1	▪ CONNECTOR, 4 Pin	1
11	R99938D2	▪ CONNECTOR, 4 Pin	4
12	R92457D4	▪ PLUG, Locking Wedge, 4 Pin	1
13	R92457D6	▪ CONTACT SOCKET, Plug	4
14	R4260955	▪ CONNECTOR, W/ Tang (Not Shown)	5
15	R44437D3	▪ CABLE, Ethernet	1
16	79Z1129D7	▪ TERMINAL	3
17	R44437D2	▪ CABLE, Patch, Ethernet (Not Shown)	1
18	R105592D5	▪ GROMMET (Not Shown)	1
19	R88249D1	▪ TIE, Wire (Not Shown)	10
20	R91043D1	▪ DECALS, Cab, Ceiling	1

ELECTRICAL INSTALLATION, AUTOMATION COMPONENTS



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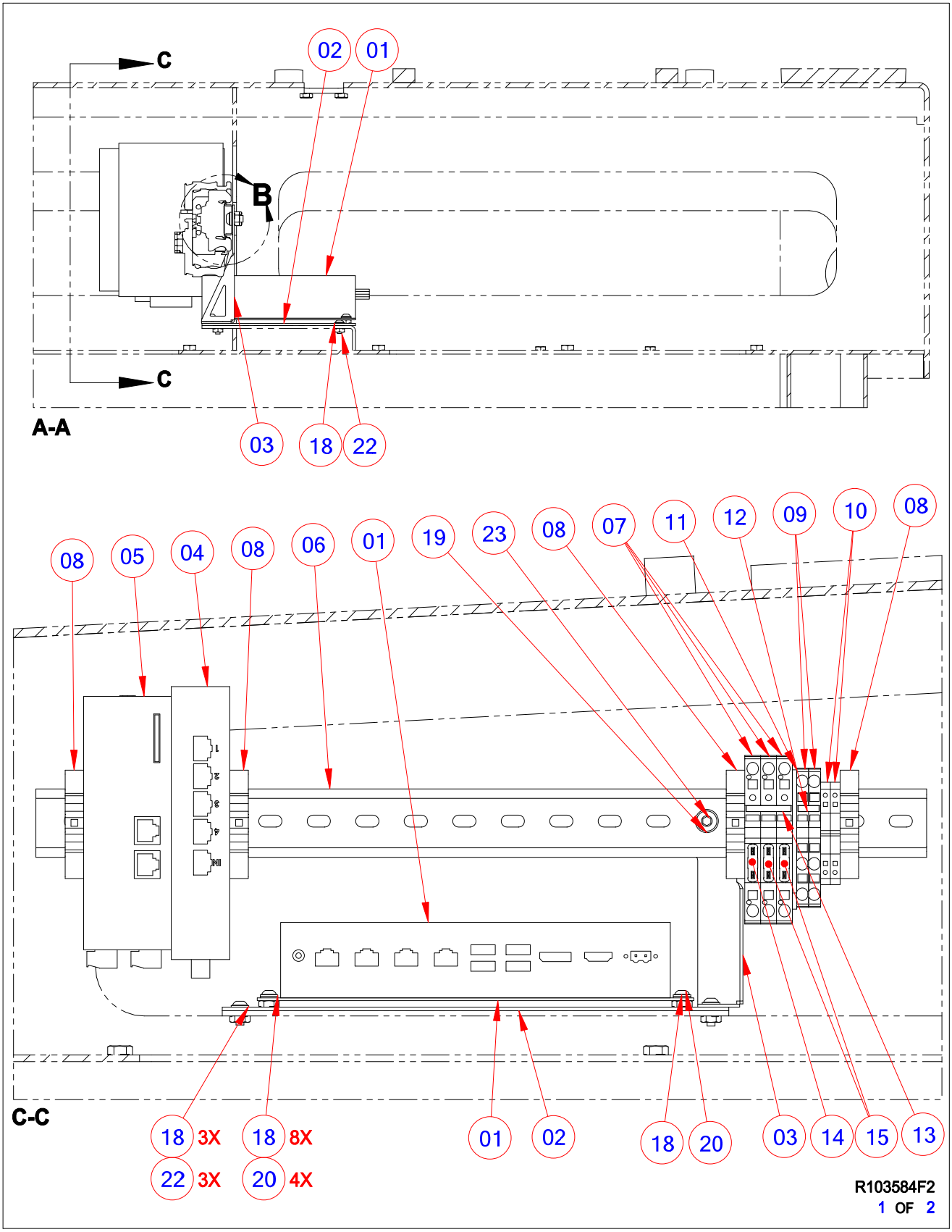
ELECTRICAL INSTALLATION, AUTOMATION COMPONENTS

ELECTRICAL INSTALLATION, AUTOMATION COMPONENTS

Item	Part No.	Description	Qty.
	R108638F1	ELECTRICAL INSTALLATION, AUTOMATION COMPONENTS	
01	R4239848	▪ I-BUTTON, Read Head	1
02	R75056D1	▪ RECEPTACLE, USB	1
03	R107741D2	▪ BRACKET, Interface	1
04	R107802D2	▪ PLATE, Grommet	1
05	R107772D1	▪ CONNECTOR, Panel Mount, M12 to RJ45	2
06	R112054D600	▪ CABLE, M12 5-Pin	1
07	R112059D600	▪ CABLE, M12 8-Pin	1
08	R112060D600	▪ CABLE, M12 4-Pin	1
09	R98812D22	▪ GROMMET, Rubber	5
10	3612M006	▪ WASHER, Plain	6
11	0825M06016	▪ BOLT, Hex Head	6
12	R114370F200	▪ CABLE INSTALLATION, Standard, Automation (Not Shown)	1
CBL25C-101	R107151D3	▪ ▪ CABLE, USB Adapter	1
CBL25C-161	R107298D5	▪ ▪ CABLE, Ethernet, 5m	1
CBL25C-201	R107298D5	▪ ▪ CABLE, Ethernet, 5m	1
CBL25C-281	R114937D750	▪ ▪ CABLE, Communication	1
13	R122169D1	▪ DECAL, Automation, Operator Cab Buddy Seat	

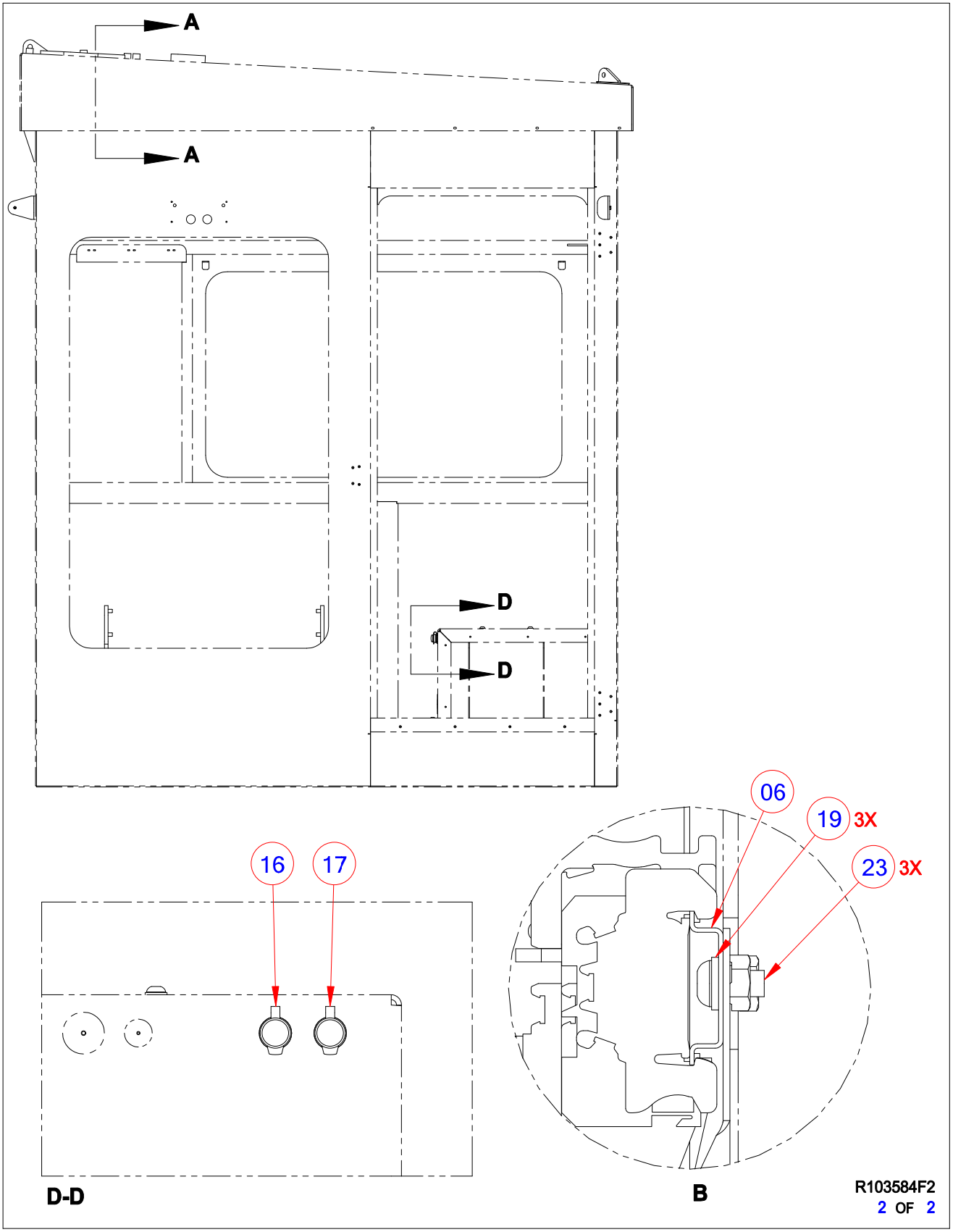
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PREVAIL INSTALLATION, OPERATOR CAB



INSTALL,PREVAIL,OP CAB

PREVAIL INSTALLATION, OPERATOR CAB

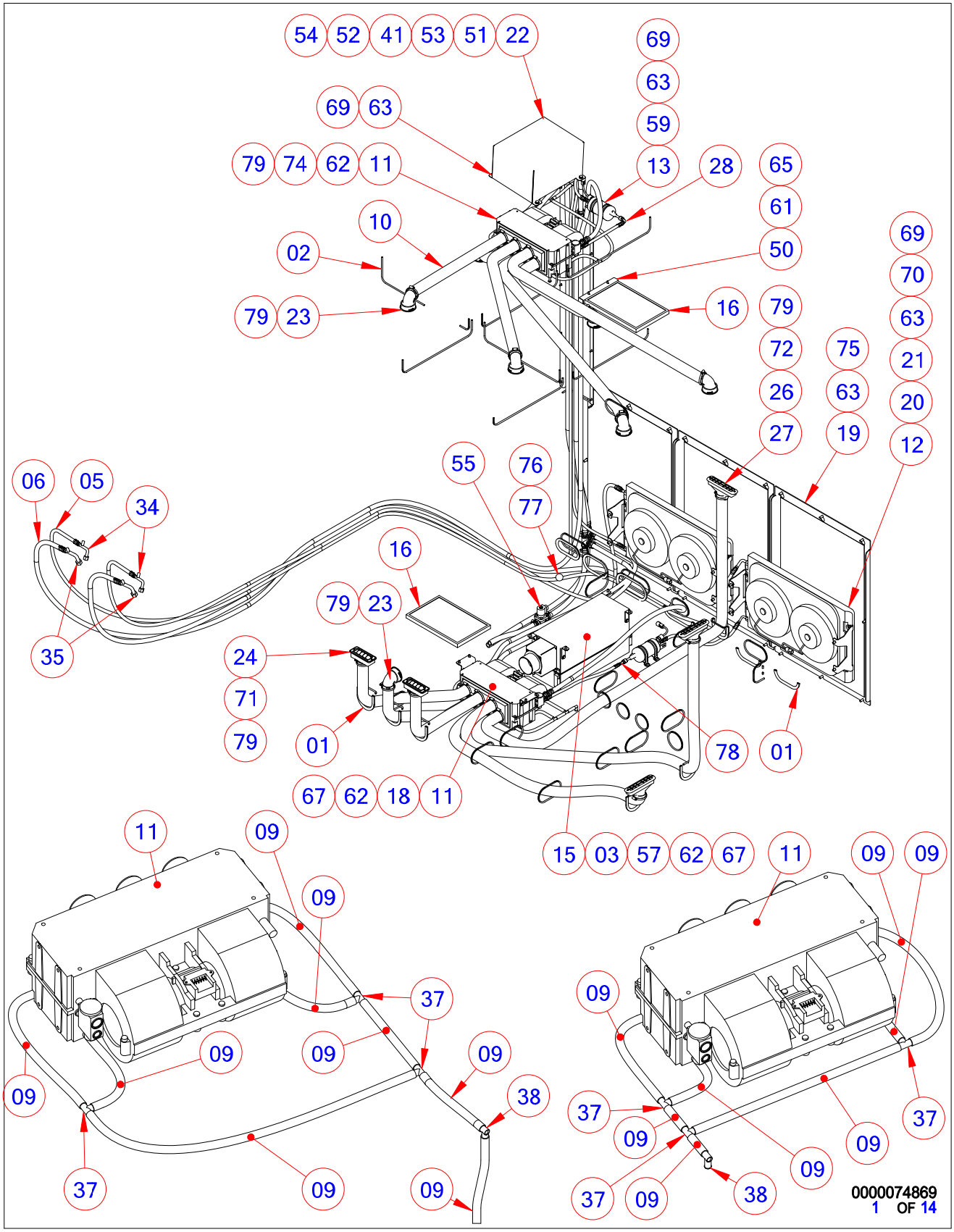


INSTALL,PREVAIL,OP CAB

PREVAIL INSTALLATION, OPERATOR CAB

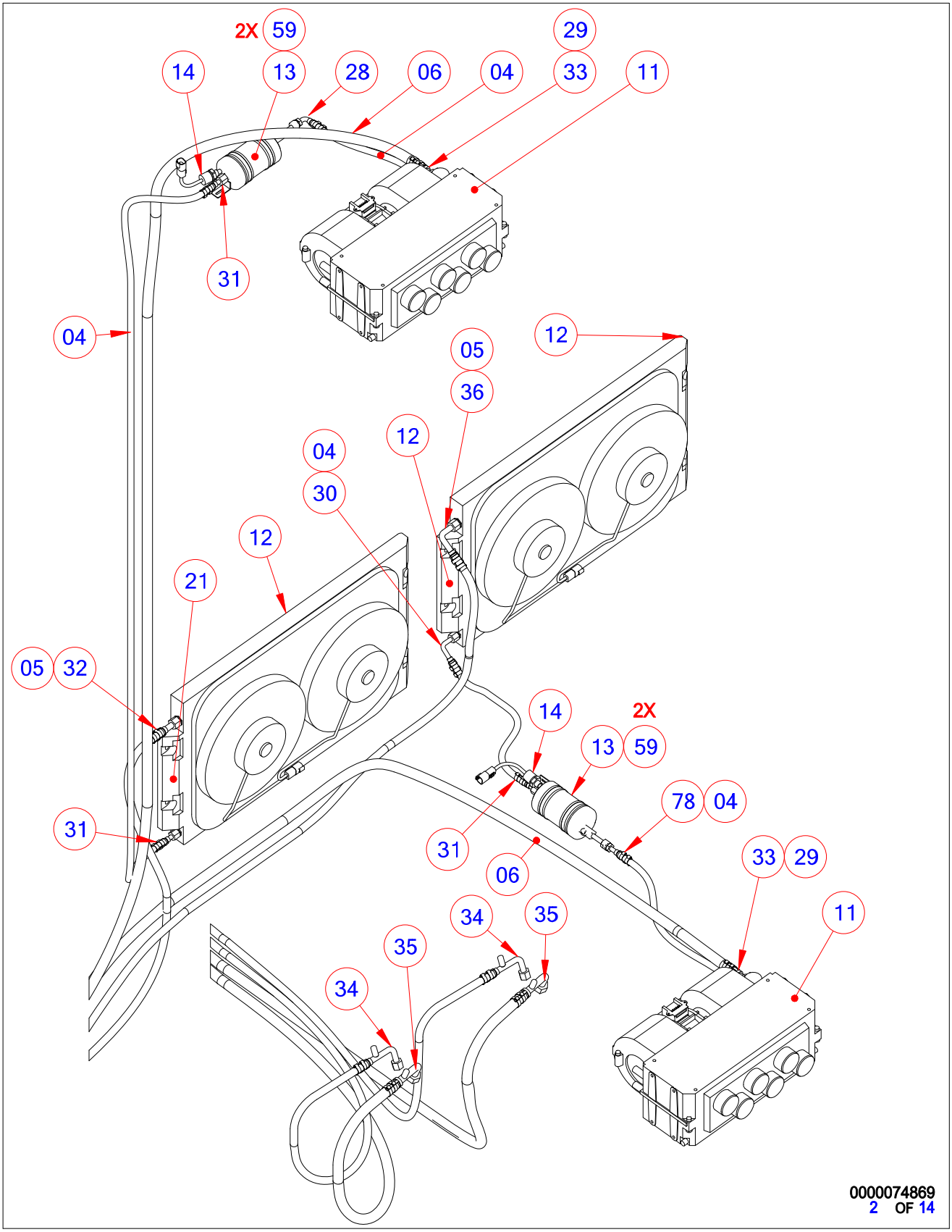
Item	Part No.	Description	Qty.
	R103584F2	PREVAIL INSTALLATION, OPERATOR CAB	
01	R111487F3	· DATALOGGER, Prevail	1
02	R114266D1	· ADAPTER, Human Machine Interface (HMI) Mount	1
03	R104569D1	· BRACKET	1
04	R95148D1	· ETHERNET SWITCH, Prevail	1
05	R81019D1	· ROUTER	1
06	R57761D23	· RAIL, Mounting	1
07	R80858D3	· BLOCK, Terminal, Fuse - with LED	3
08	R82376D1	· CLAMP, End	4
09	R82620D1	· BLOCK, Terminal (Gray)	2
10	R40118D62	· BLOCK, Terminal (Ground)	2
11	R82705D1	· PLATE, Spacer	1
12	R82378D1	· BRIDGE, Plug-In, 2 Position	1
13	R82385D2	· BRIDGE, Plug-In, 3 Position	1
14	R82706D2	· FUSE, 2A	1
15	R82706D5	· FUSE, 5A	2
16	R75057D1	· RECEPTACLE, RJ45	1
17	R75056D1	· RECEPTACLE, USB	1
18	3612M004	· WASHER, Plain	12
19	3612M006	· WASHER, Plain	3
20	0836M04008	· SCREW, Button Head Cap	4
21	0836M04012	· SCREW, Button Head Cap (Not Shown)	1
22	0836M04010	· SCREW, Button Head Cap	3
23	0836M06012	· SCREW, Button Head	3
24	R122162D1	· DECAL, Prevail, Operator Cab Buddy Seat (Not Shown)	1

HVAC INSTALLATION, OPERATOR CAB, STANDARD



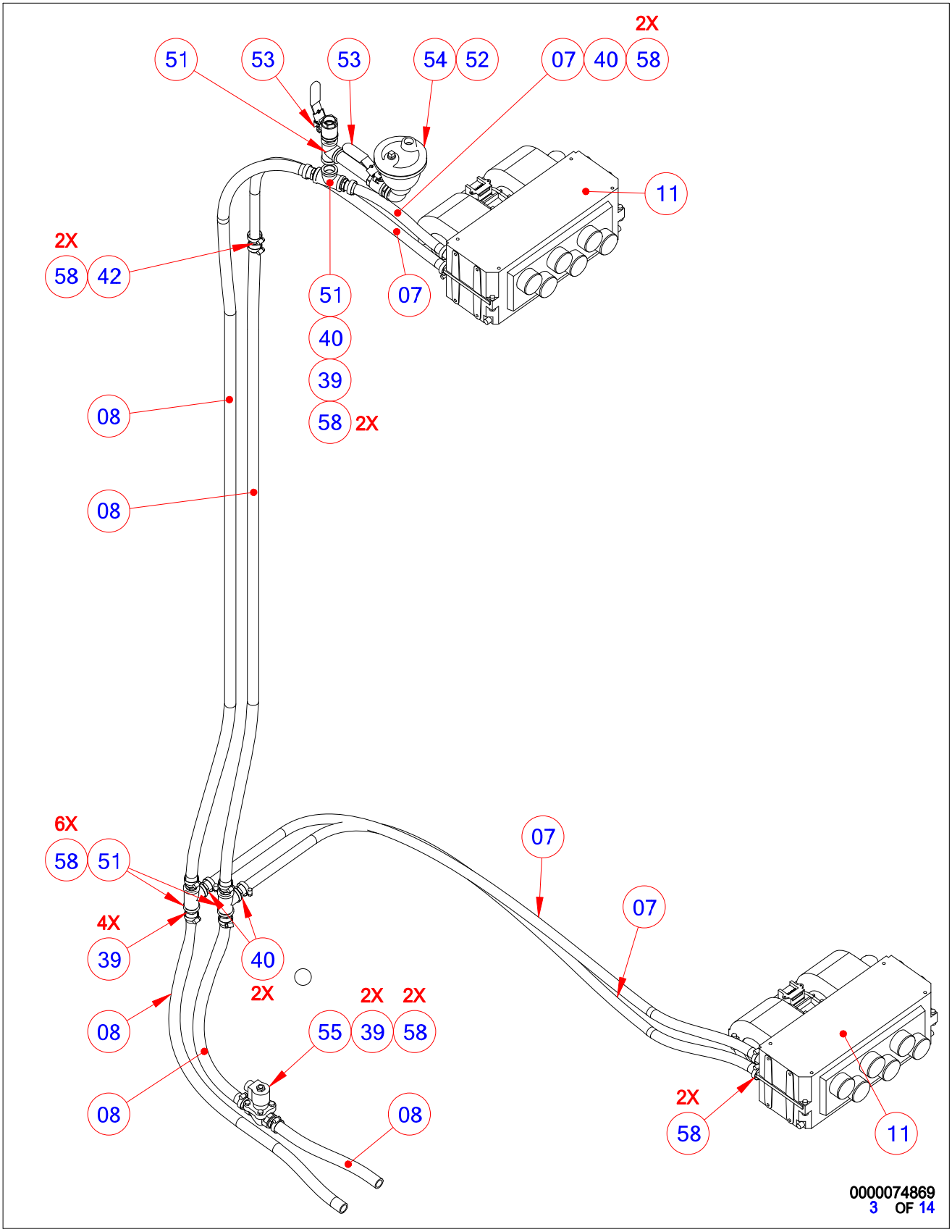
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



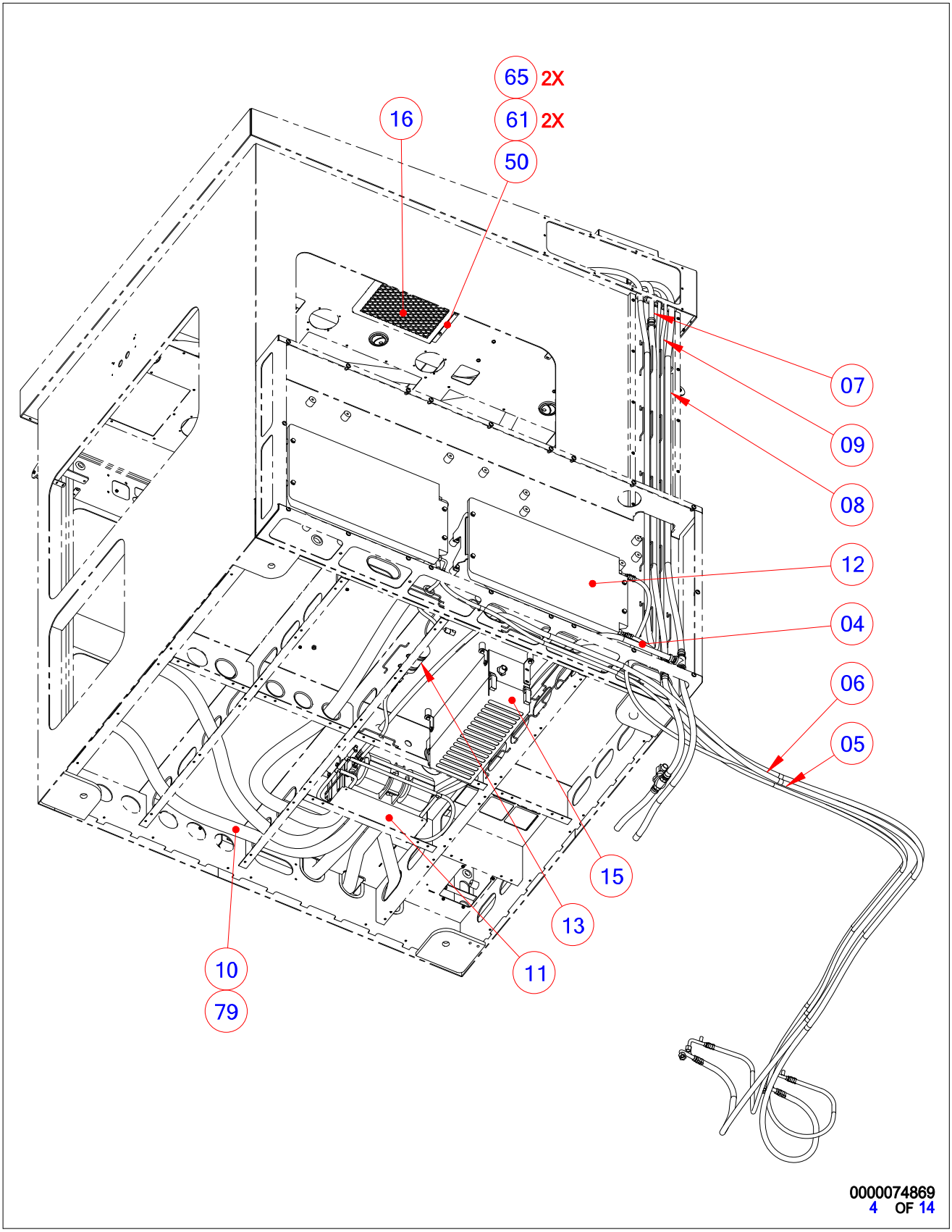
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



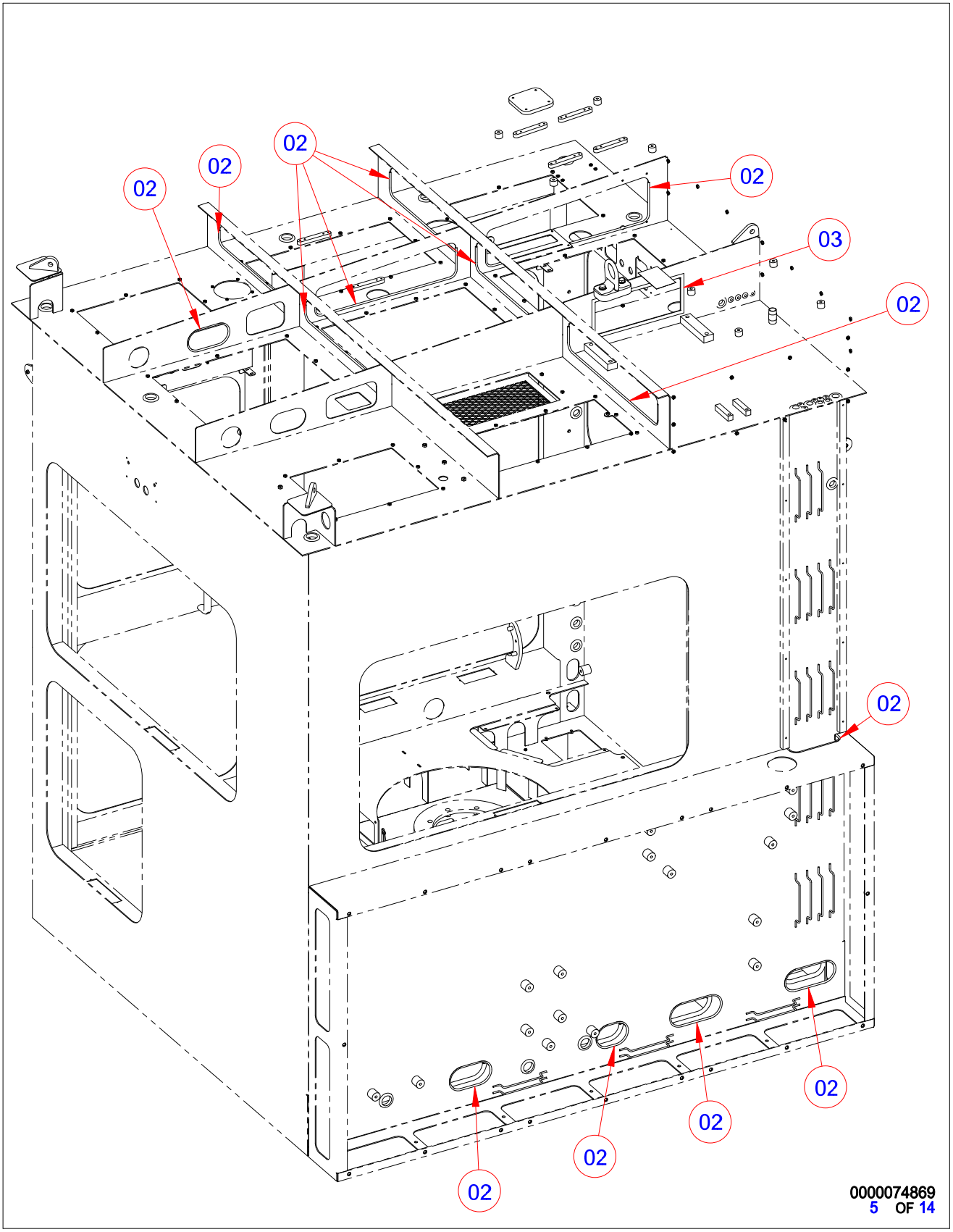
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



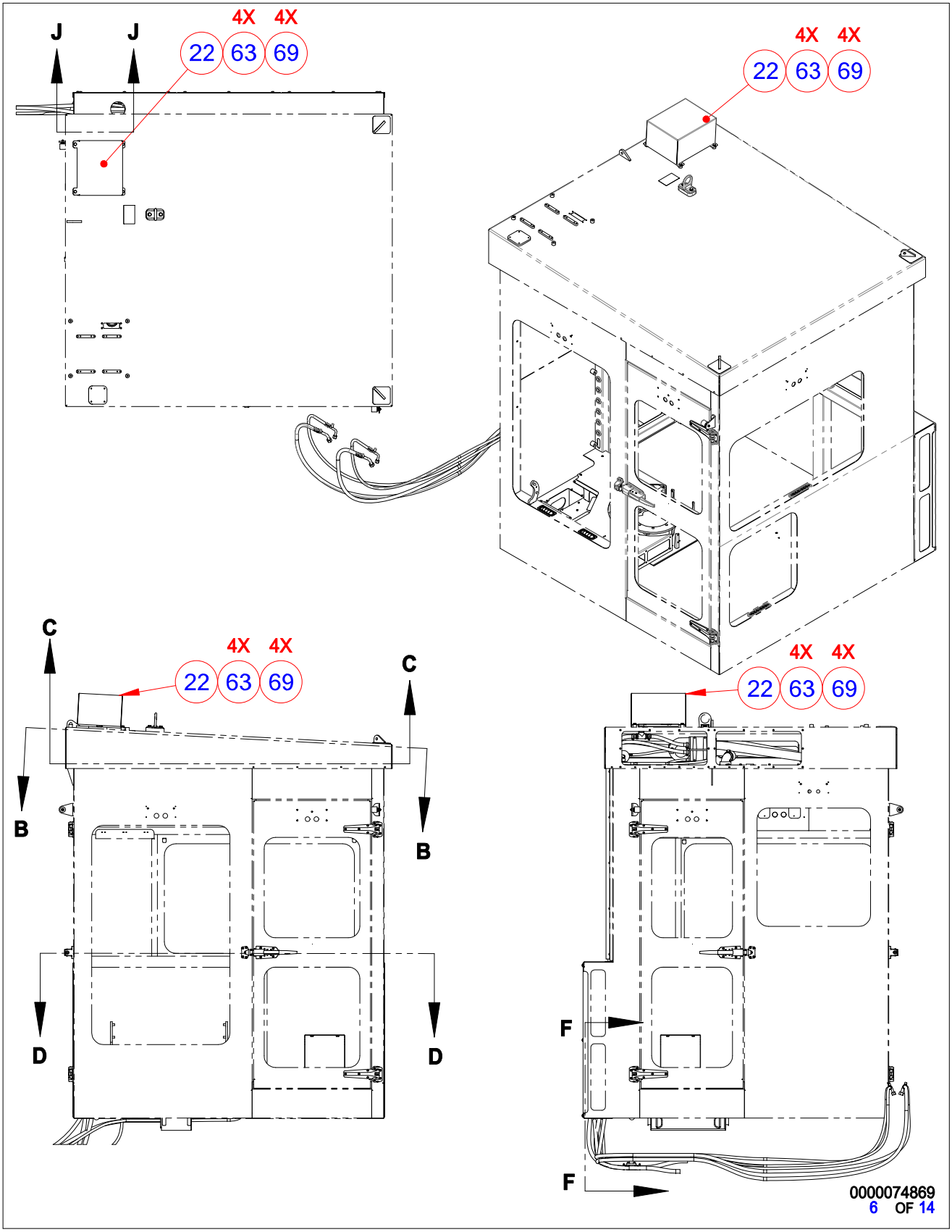
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



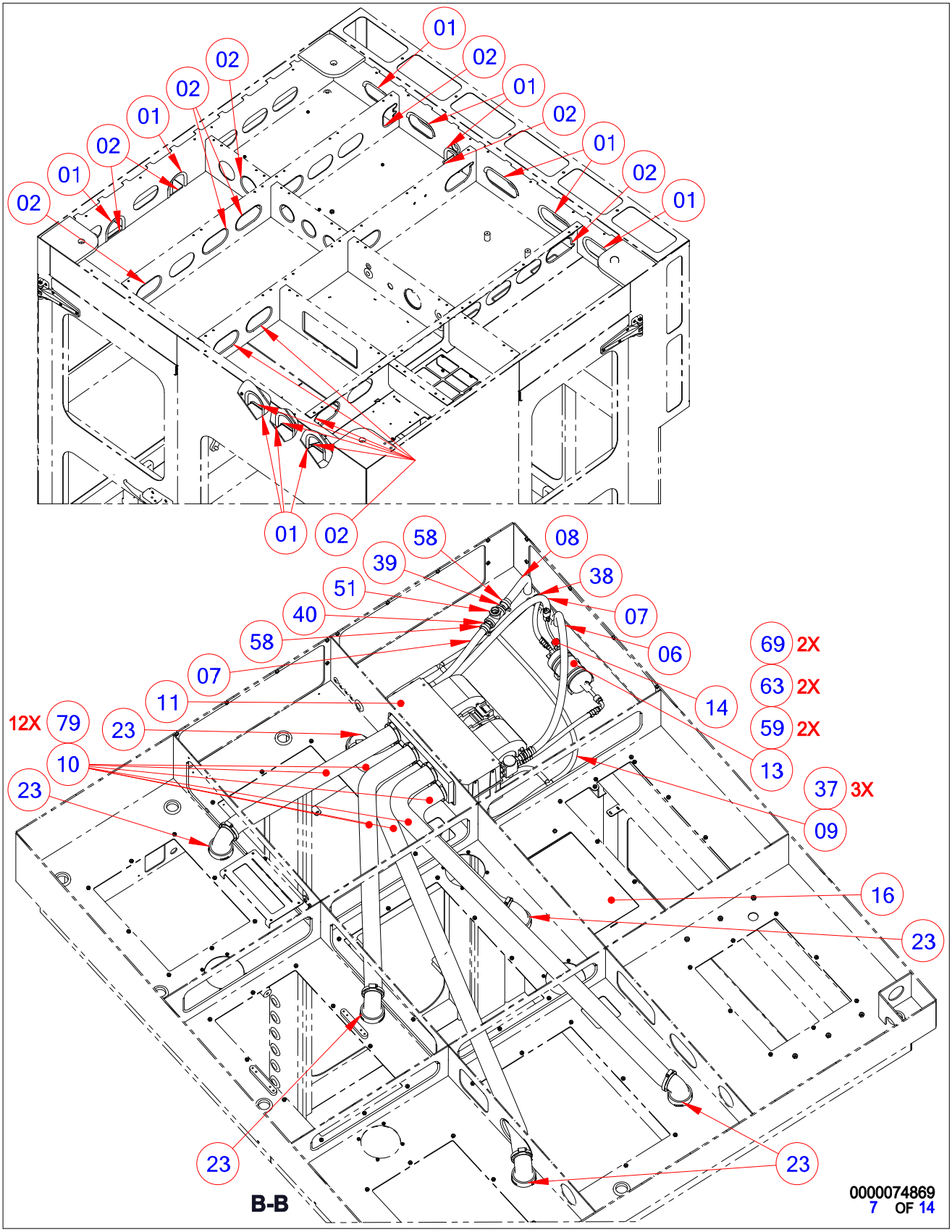
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



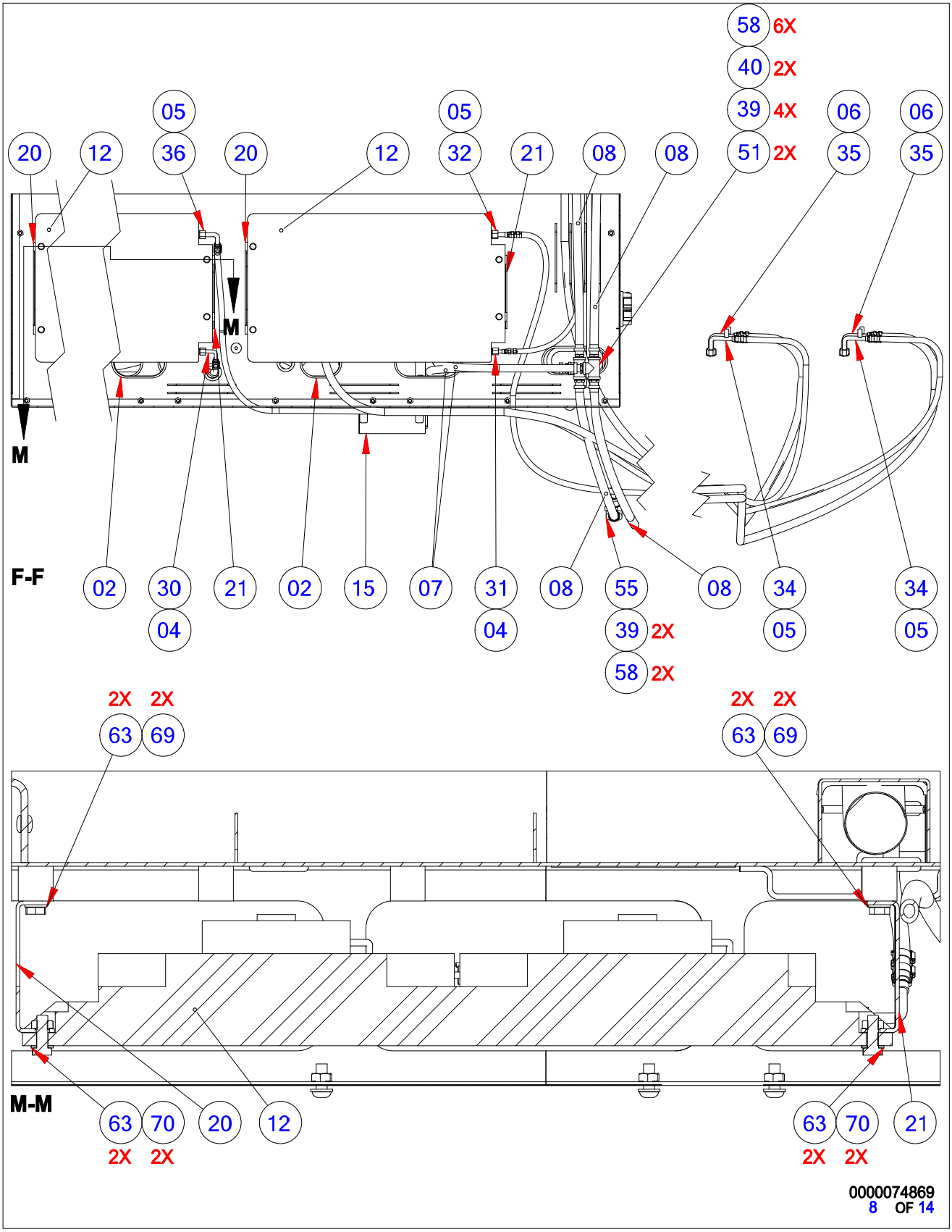
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



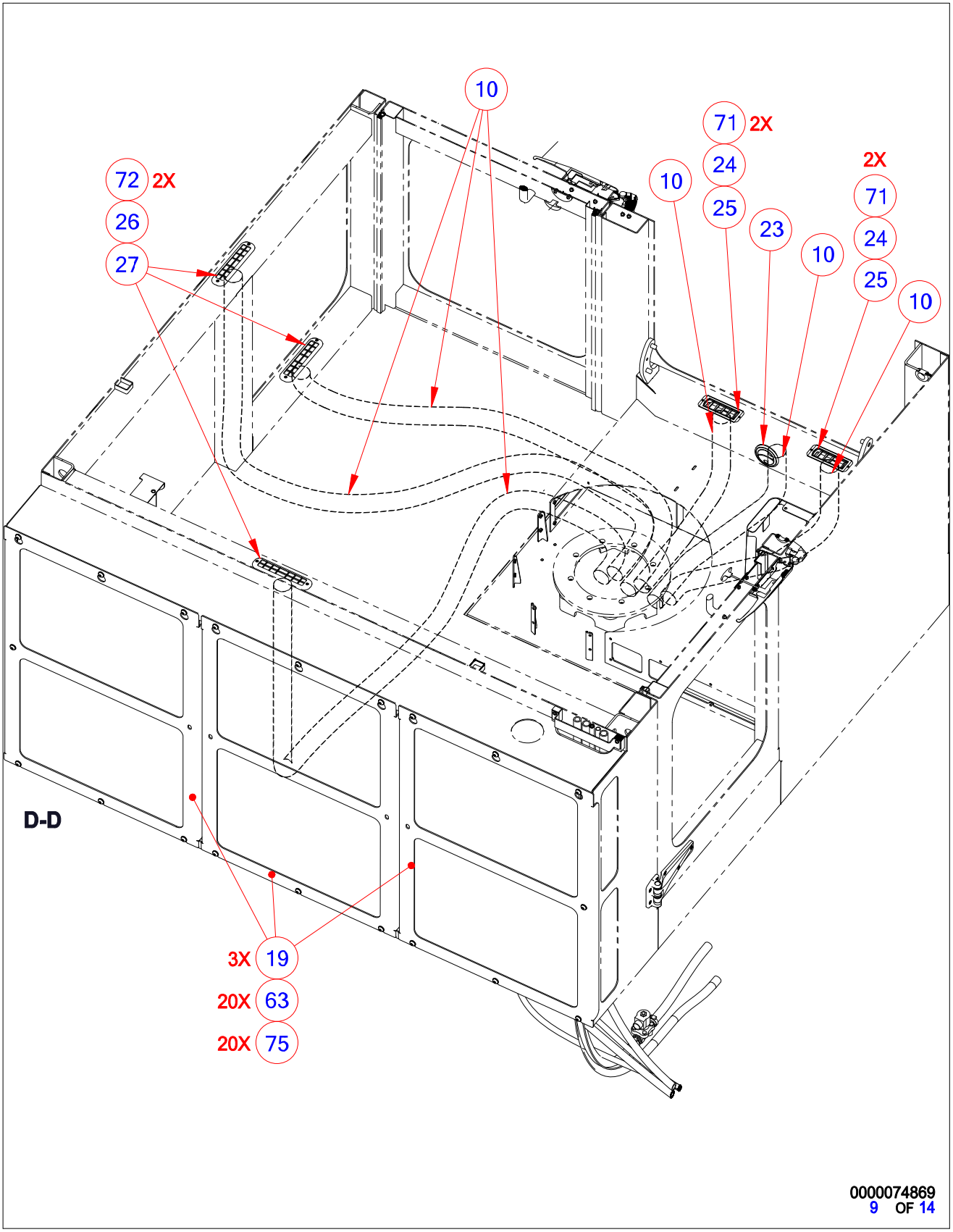
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD

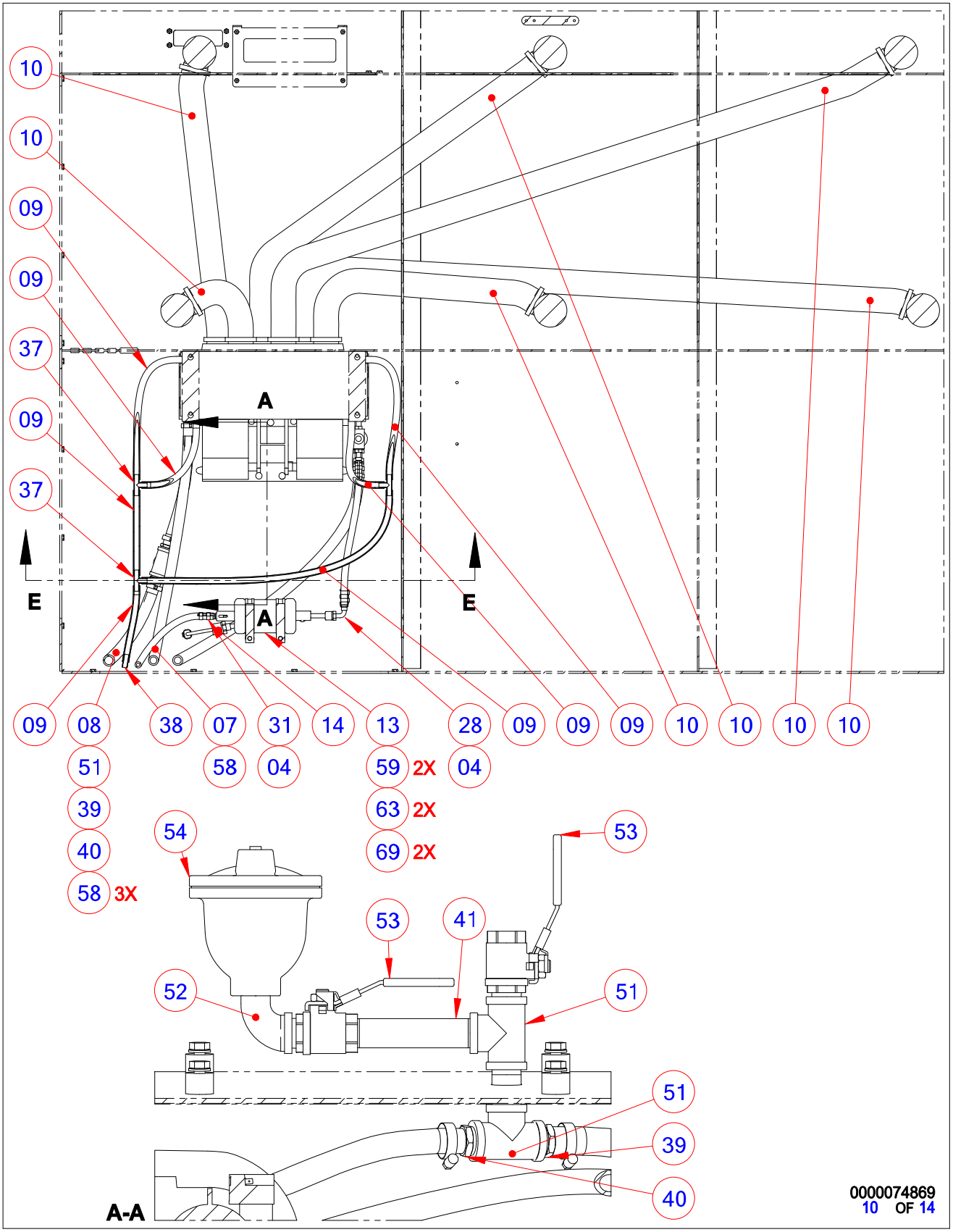


HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD

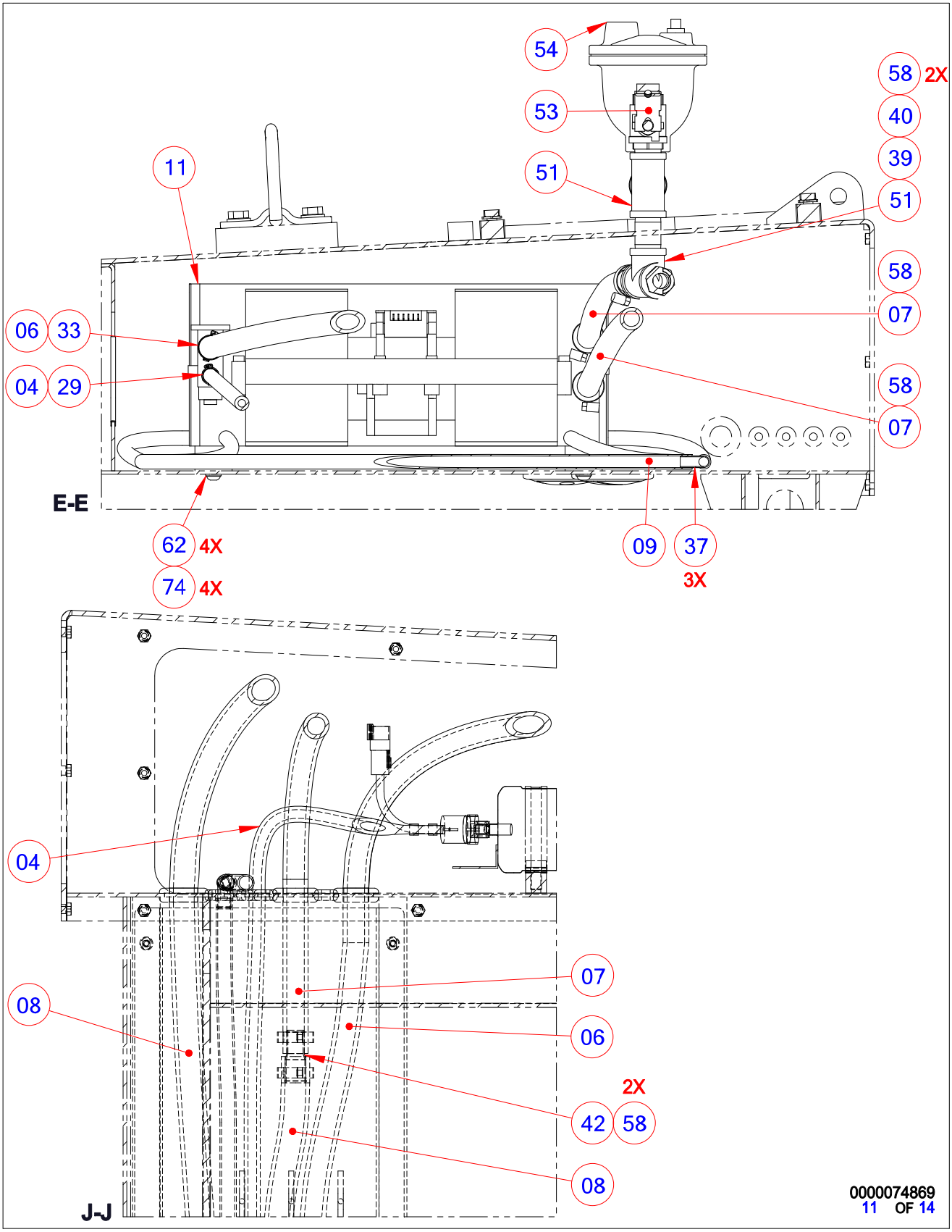


HVAC INSTALLATION, OPERATOR CAB, STANDARD



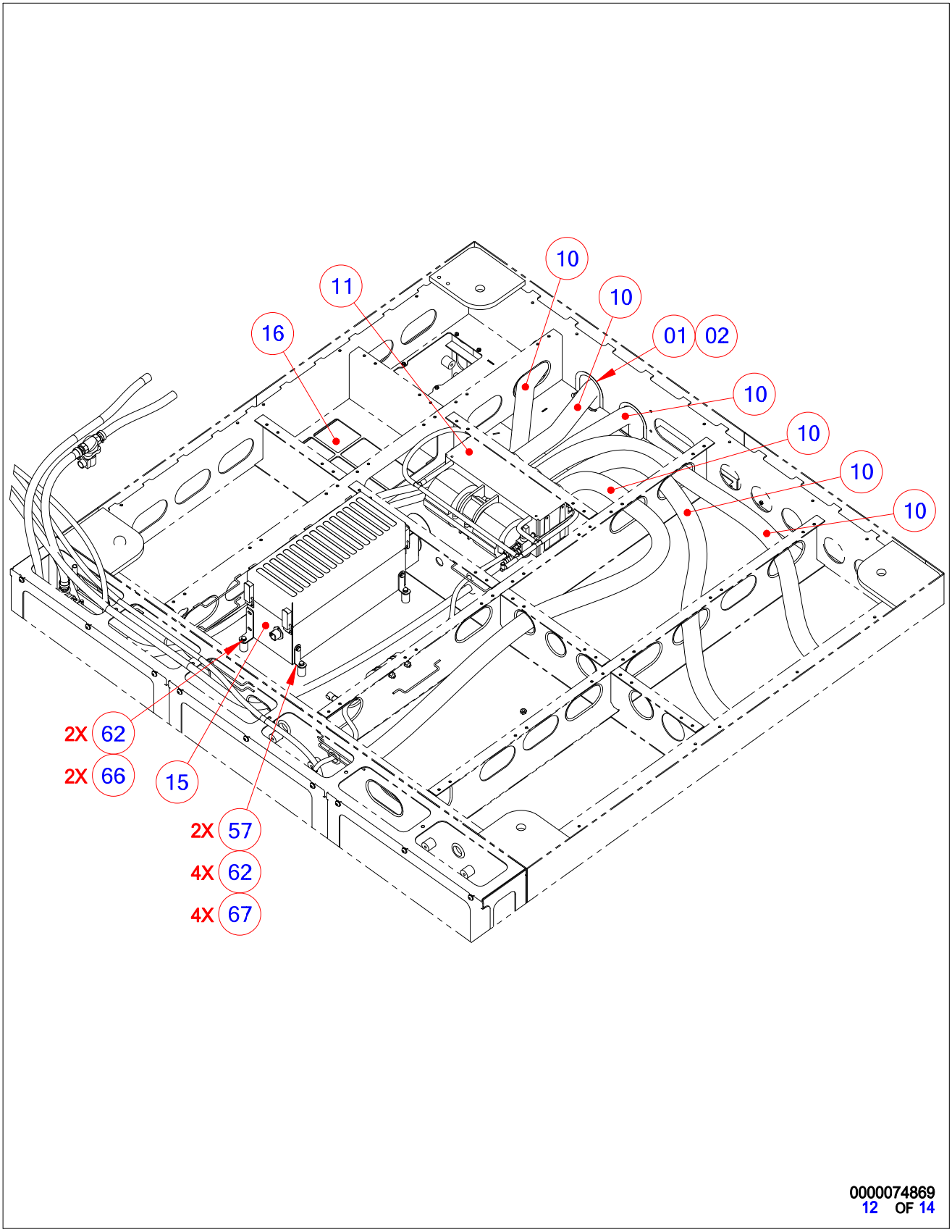
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HVAC INSTALLATION, OPERATOR CAB, STANDARD



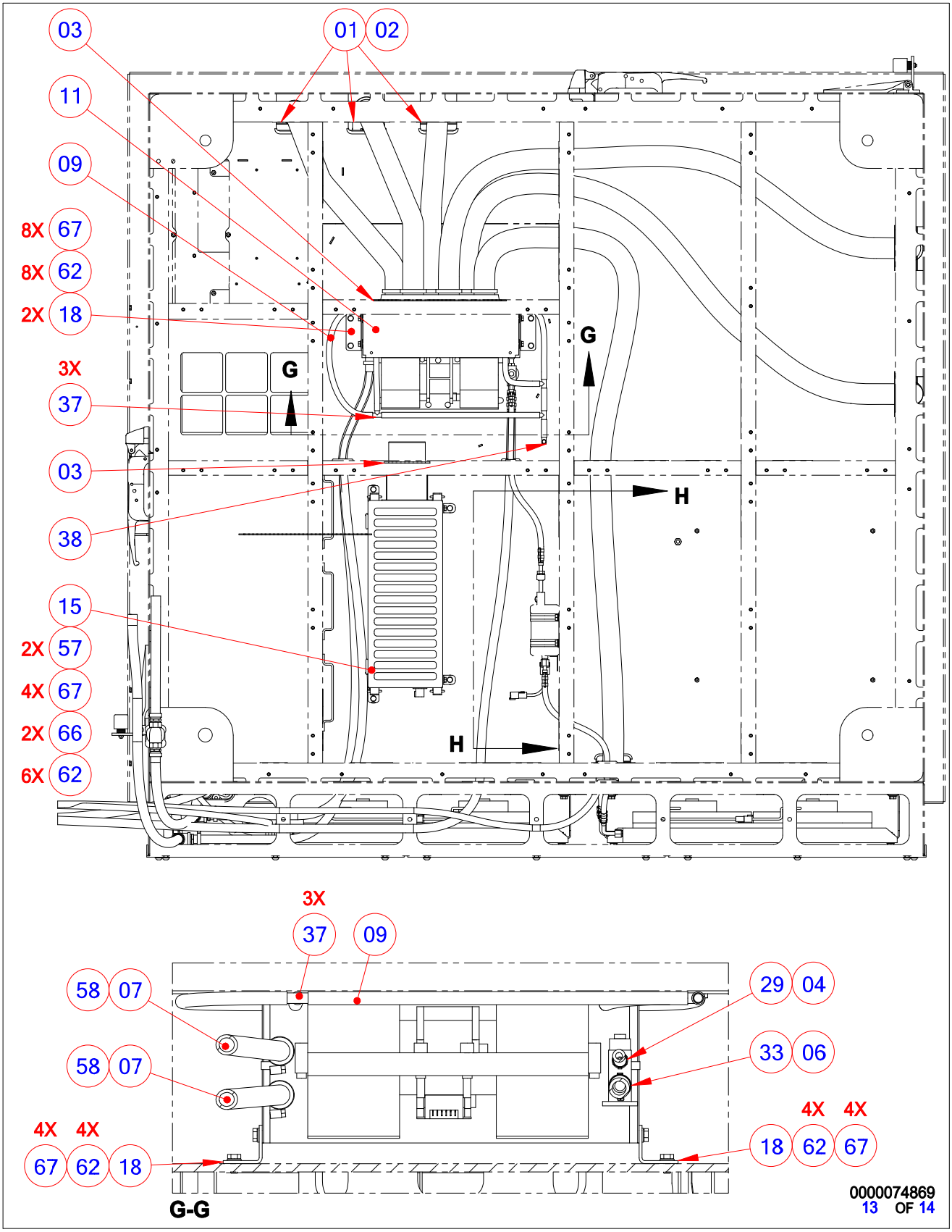
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



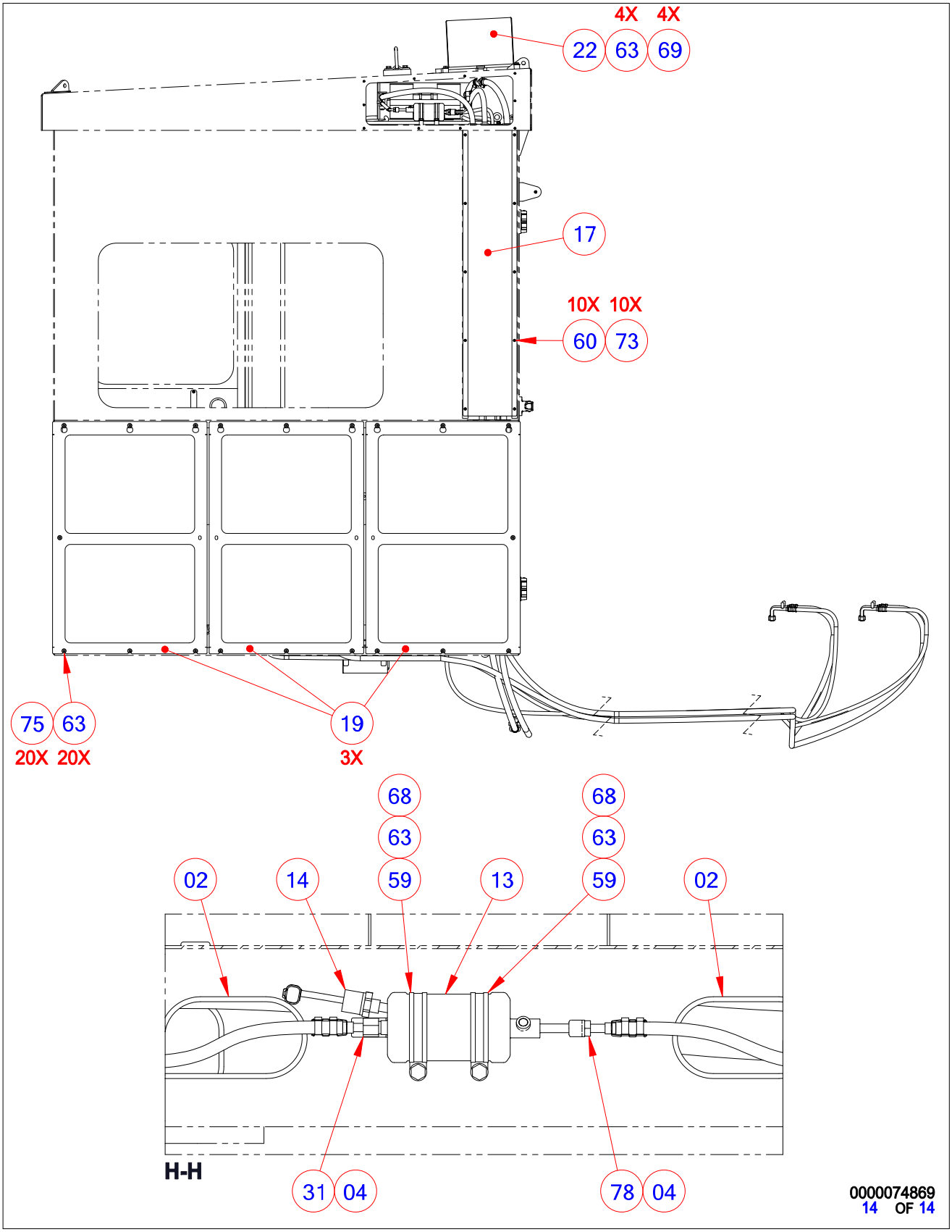
HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



HVAC INSTALLATION, OPERATOR CAB, STANDARD

HVAC INSTALLATION, OPERATOR CAB, STANDARD



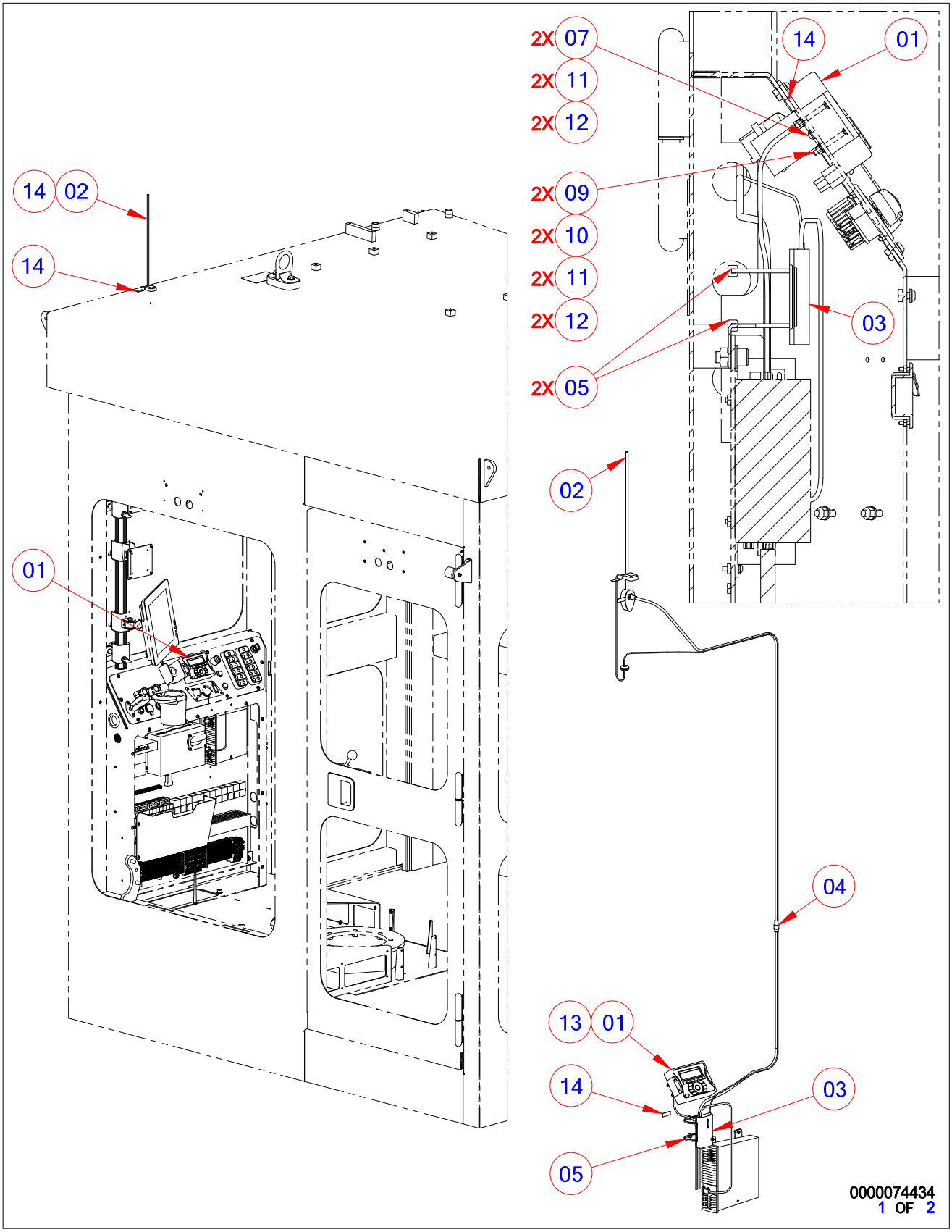
HVAC INSTALLATION, OPERATOR CAB, STANDARD

Item	Part No.	Description	Qty.	Unit
	R103520F1	HVAC INSTALLATION, OPERATOR CAB, STANDARD		
01		▪ TRIM, Quickedge	1	
	3312A2912	▪ ▪ TRIM, Quickedge	160	Inch
02		▪ EDGE GUARD	1	
	5102C10960	▪ ▪ EDGE GUARD	46	Foot
03	R98956D1	▪ FOAM, Adhesive Backed	1	
04	R103670T06D420	▪ HOSE, AC	1	
05	R103670T08D1035	▪ HOSE, AC	1	
06	R103670T12D1340	▪ HOSE, AC	1	
07	R91407T16D460	▪ HOSE, Heater	1	
08	R91407T19D700	▪ HOSE, Heater	1	
09	R95905D500	▪ HOSE, Drain	1	
10	R95914D1	▪ PIPE, Air	1	
11	R95897D1	▪ EVAPORATOR, Floor	2	
	R95897D2	▪ ▪ BLOCK, Expansion	1	
12	R95898D1	▪ CONDENSER, Floor	2	
13	R95899D2	▪ DRIER Receiver	2	
14	R117127D1	▪ SWITCH, Pressure	2	
15	R95915D1	▪ HVAC PRESSURIZER	1	
	R95915D2	▪ ▪ FILTER, Pressurizer	1	
16	R92250D1	▪ FILTER, Air	2	
17	R101235D1	▪ SHROUD, HVAC Lines	1	
18	R98562D1	▪ MOUNTING BRACKET, Floor HVAC	2	
19	R101234D1	▪ COVER	3	
20	R103770D1	▪ MOUNT, Condenser	2	
21	R103771D1	▪ MOUNT, Condenser	2	
22	R104054D1	▪ COVER, Fill/Vent Port	1	
23	R95911D2	▪ LOUVER, 90 Deg	7	
24	R95913D1	▪ CONNECTOR	2	
25	R95912D1	▪ LOUVER, Rectangular	2	
26	R95913D2	▪ VENT HOUSING, Rectangular	3	
27	R95913D3	▪ VENT, Rectangular	3	
28	R103671D320	▪ FITTING, 90 Degree	1	
29	R103671D230	▪ FITTING, Straight	2	
30	R103671D50	▪ FITTING, 90 Degree	1	
31	R103671D1	▪ FITTING, Straight	3	
32	R103671D3	▪ FITTING, Straight	1	
33	R103671D234	▪ FITTING, Straight	2	
34	R103671D151	▪ FITTING, 90 Degree	2	
35	R103671D141	▪ FITTING, 90 Degree	2	

HVAC INSTALLATION, OPERATOR CAB, STANDARD

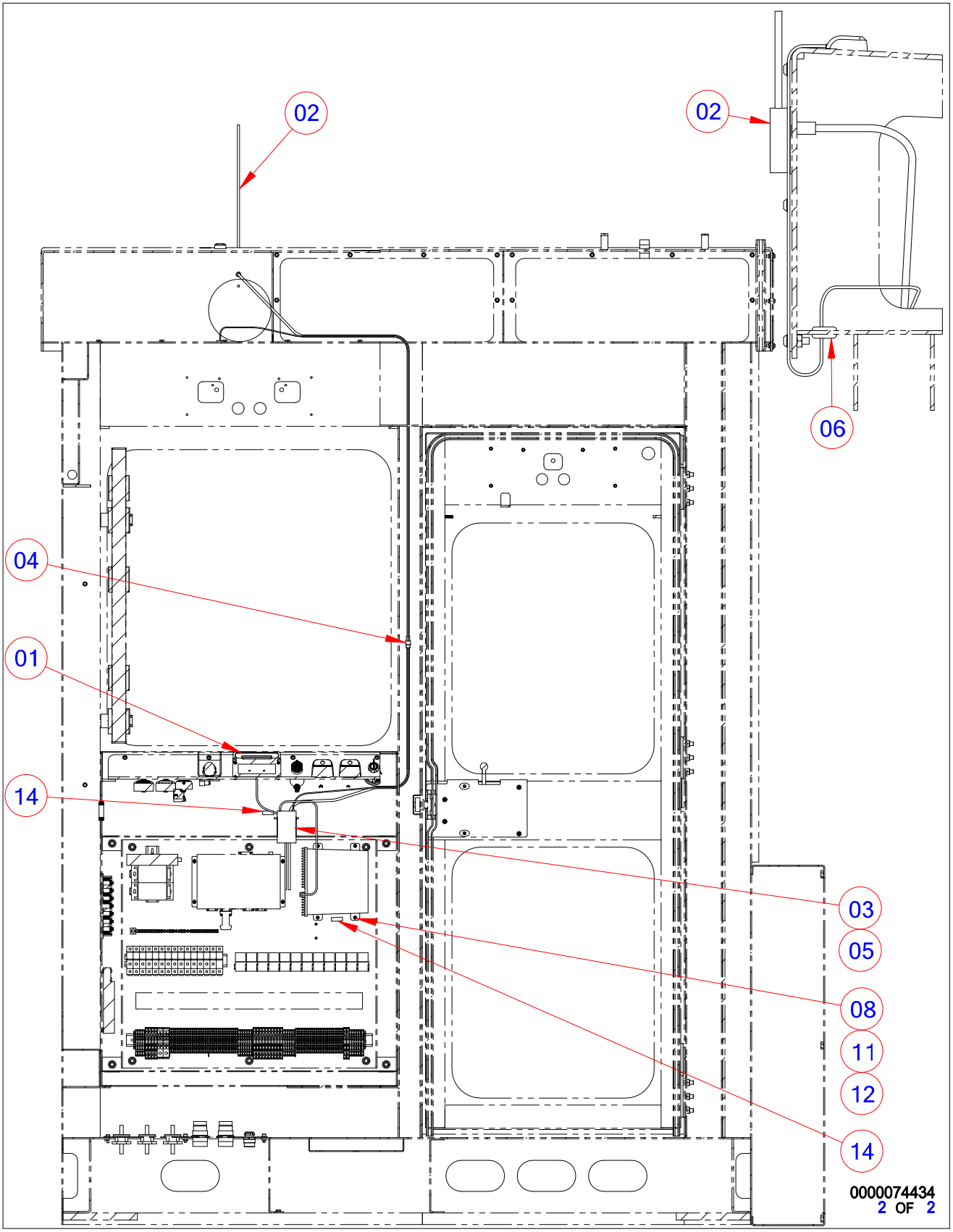
Item	Part No.	Description	Qty.	Unit
36	R103671D53	· FITTING, 90 Degree	1	
37	R95906D12	· FITTING, Tee	6	
38	R95906D20	· ELBOW	2	
39	R98508D25	· NIPPLE, Brass	7	
40	R98508D23	· NIPPLE, Brass	3	
41	2419V148	· NIPPLE, Pipe	1	
42	R95906D9	· FITTING, Straight	1	
43 THRU 49		NOT USED		
50	R102262D1	· BRACKET, HVAC Filter	1	
51	2425V005	· TEE, Pipe	4	
52	2416V020	· ELBOW, 90 Degree Street	1	
53	R68806D4	· VALVE, Locking Ball	2	
54	R103749D1	· VALVE, Air Release	1	
55	R102309D1	· COLD WEATHER COOLANT BYPASS SOLENOID (OPTIONAL)	1	
56	32Z890D118	· TIE, Wire (Not Shown)	10	
57	R103914D1	· MOUNTING BRACKET, Pressurizer	2	
58	R92065D1	· CLAMP	16	
59	R73213D1	· CLAMP	4	
60	3612M006	· WASHER, Plain	10	
61	3648M006	· WASHER, Hardened	2	
62	3612M008	· WASHER, Plain	18	
63	3612M010	· WASHER, Plain	46	
64	2104M010	· NUT, Hex (Not Shown)	2	
65	0825M06016	· BOLT, Hex Hd	2	
66	0825M08020	· BOLT, Hex Hd	2	
67	0825M08016	· BOLT, Hex Hd	12	
68	0825M10025	· BOLT, Hex Hd	2	
69	0825M10020	· BOLT, Hex Hd	14	
70	0825M10030	· BOLT, Hex Hd	8	
71	0836M03012	· SCREW, Button Hd Cap	4	
72	0836M04016	· SCREW, Button Hd Cap	6	
73	0836M06016	· SCREW, Button Hd Cap	10	
74	0836M08040	· SCREW, Button Hd Cap	4	
75	0836M10025	· SCREW, Button Hd Cap	20	
76	32Z1806	· SEALANT, Weather	1	
77	R103669D2	· REFRIGERANT OIL, SP-15 (1 FL OZ)	2	
78	R103671D310	· FITTING, Straight	1	
79	R92065D3	· CLAMP	24	

STEREO INSTALLATION, SELECTED



INSTALL, STEREO, SELECTED

STEREO INSTALLATION, SELECTED

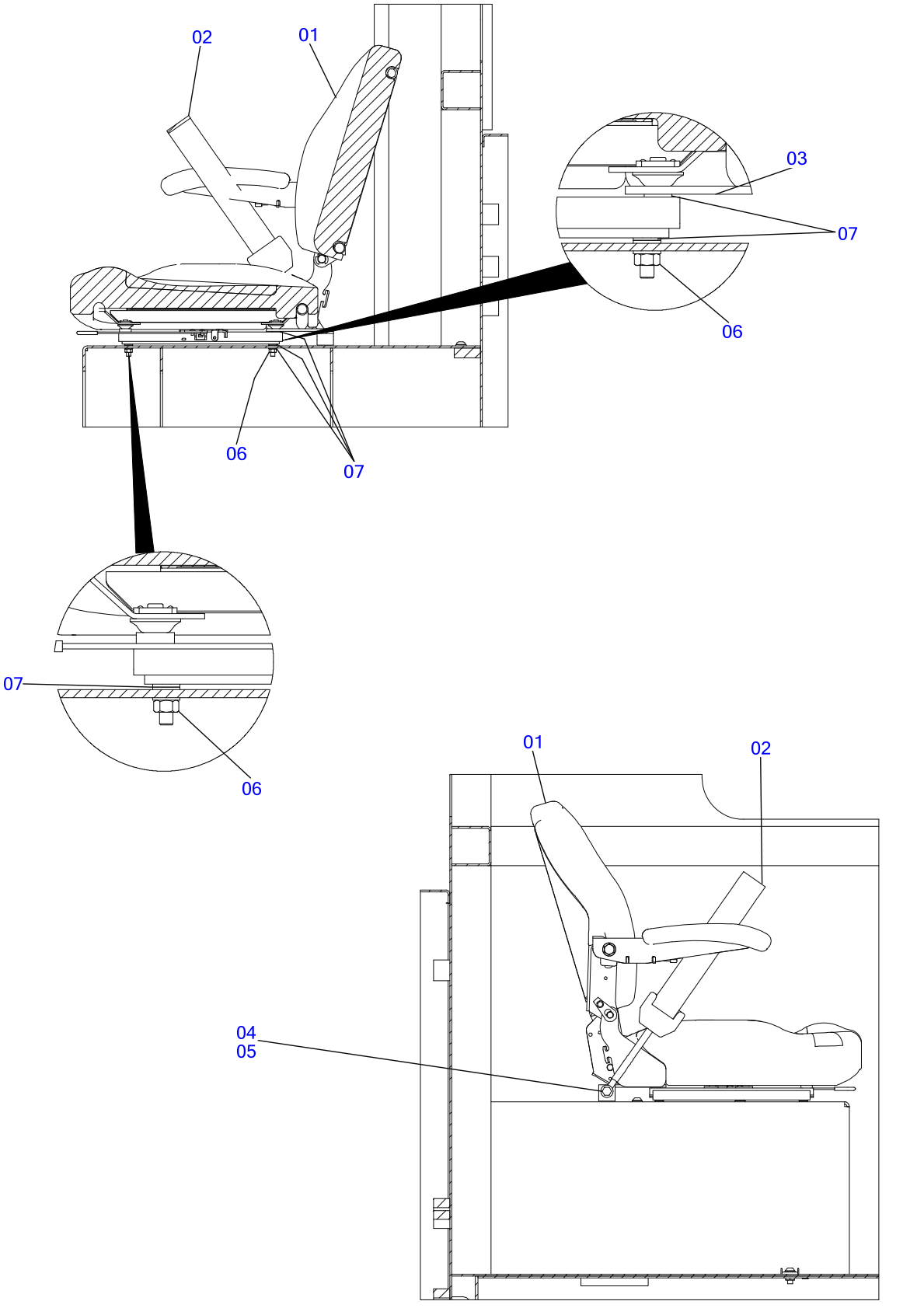


INSTALL, STEREO, SELECTED

STEREO INSTALLATION, SELECTED

Item	Part No.	Description	Qty.
	R99433F1	STEREO INSTALLATION, SELECTED	
01	R90746D1	· RECEIVER, Stereo, 2-Piece	1
02	R73236D4	· ANTENNA	1
03	R99316D1	· RADIO, Satelite	1
04	R73236D6	· CABLE, Antenna	1
05	32Z890D118	· WIRE-TIE, Black-Weather Resistant (Not Shown)	2
06	R98812D43	· GROMMET, PUSH-IN	1
07	0836M04012	· SCREW	2
08	0836M04016	· SCREW, Button Hd Cap	4
09	0820M04035	· SCREW	4
10	2104M004	· NUT, Hex	4
11	3612M004	· WASHER, Plain	10
12	3615M004	· WASHER, Lock	10
13		NOT USED	
14	R91051D1	· DECALS, Cab Radio	1

SEAT ASSEMBLY, TRAINER, 2 POINT



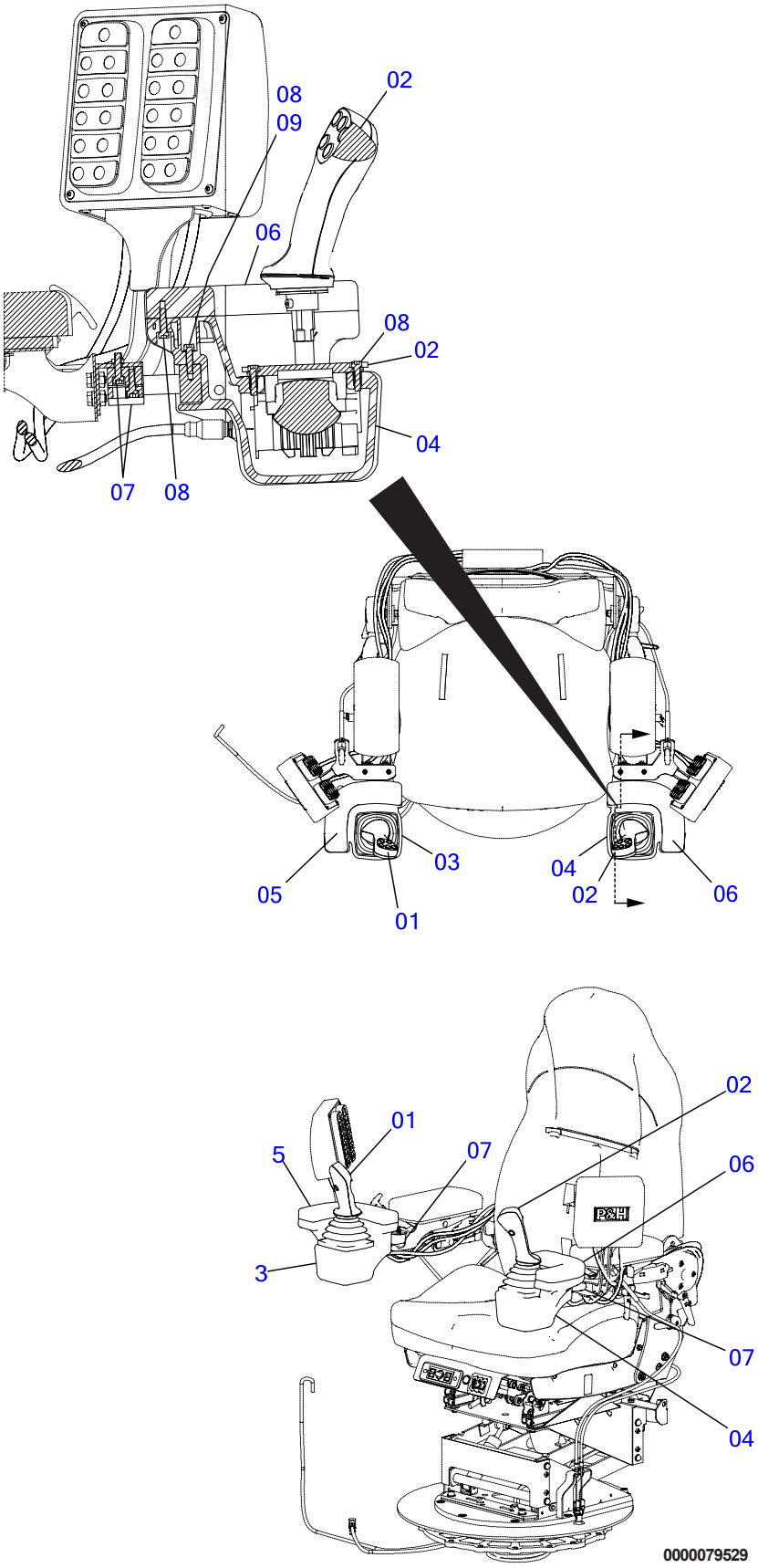
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SEAT ASSEMBLY, TRAINER, 2 POINT

SEAT ASSEMBLY, TRAINER, 2 POINT

Item	Part No.	Description	Qty.
	R97564F1	SEAT ASSEMBLY, TRAINER, 2 POINT	
01	R56110D1	▪ SEAT, Auxiliary (Trainer's)	1
02	R57909D1	▪ SEATBELT, Auxiliary Seat	1
03	R97209D1	▪ BRACKET, Trainer Seat Seatbelt	1
04	3612M012	▪ WASHER, Plain	2
05	20Q262D295	▪ SCREW, Hex Head Cap	2
06	20Q270D20	▪ NUT, Hex	4
07	3612M008	▪ WASHER, Plain	14

JOYSTICKS INSTALLATION

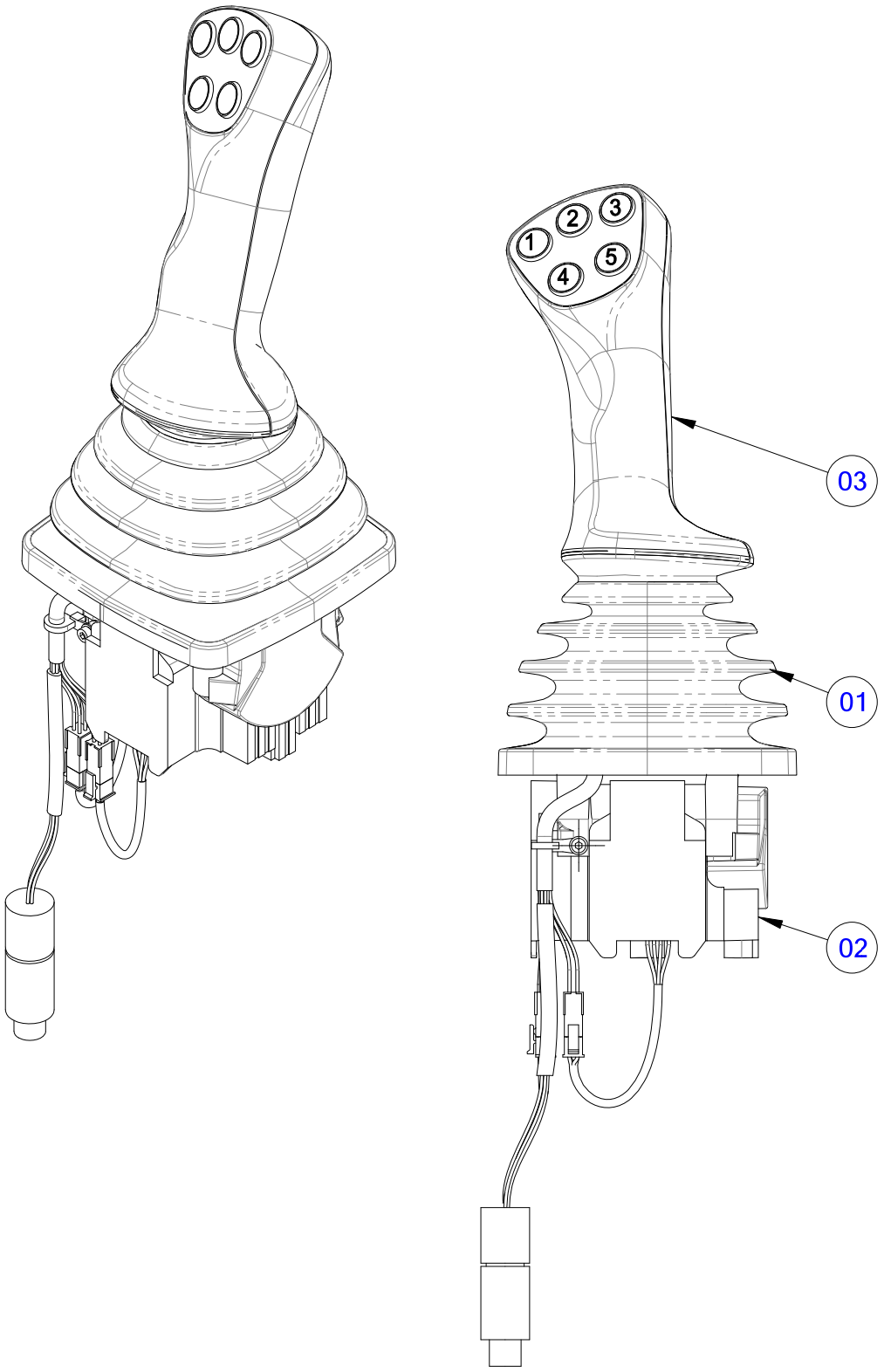


JOYSTICKS INSTALLATION

JOYSTICKS INSTALLATION

Item	Part No.	Description	Qty.	Page
	R104023F1	JOYSTICKS INSTALLATION		
01	R103719D1	・JOYSTICK ASSEMBLY, RH	1	247
02	R103719D2	・JOYSTICK ASSEMBLY, LH	1	248
03	R104642D1	・JOYSTICK POD, Deluxe, RH	1	
03A	R94158D2	・・INSERT, Threaded	4	
04	R104642D2	・JOYSTICK POD, Deluxe, LH	1	
04A	R94158D2	・・INSERT, Threaded	4	
05	R103674D1	・PALM PAD, RH	1	
06	R103674D2	・PALM PAD, LH	1	
07	R92113D1	・HOLDER, Control	2	
08	0630M05020	・SCREW, Socket Hd	22	
09	3648M005	・WASHER, Hardened	4	

JOYSTICK ASSEMBLY, RIGHT HAND

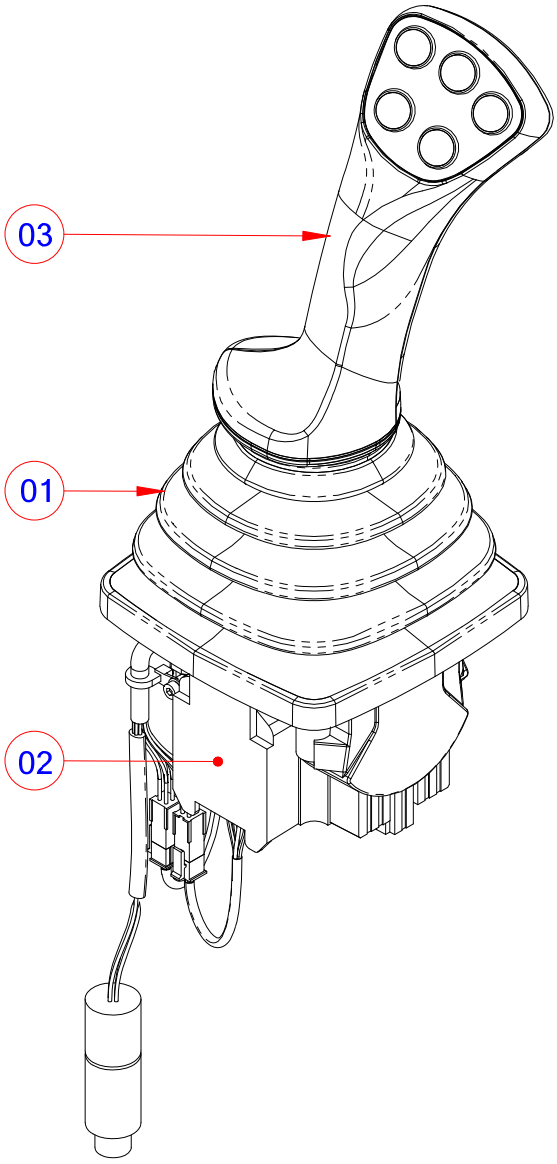


JOYSTICK ASSY,RH

JOYSTICK ASSEMBLY, RIGHT HAND

Item	Part No.	Description	Qty.
	R103719D1	JOYSTICK ASSEMBLY, RIGHT HAND	
01	R75218D1	▪ BOOT	1
02	R103719D3	▪ BASE, Joystick	1
03	R103719D4	▪ JOYSTICK, Right Hand	1

JOYSTICK ASSEMBLY, LEFT HAND



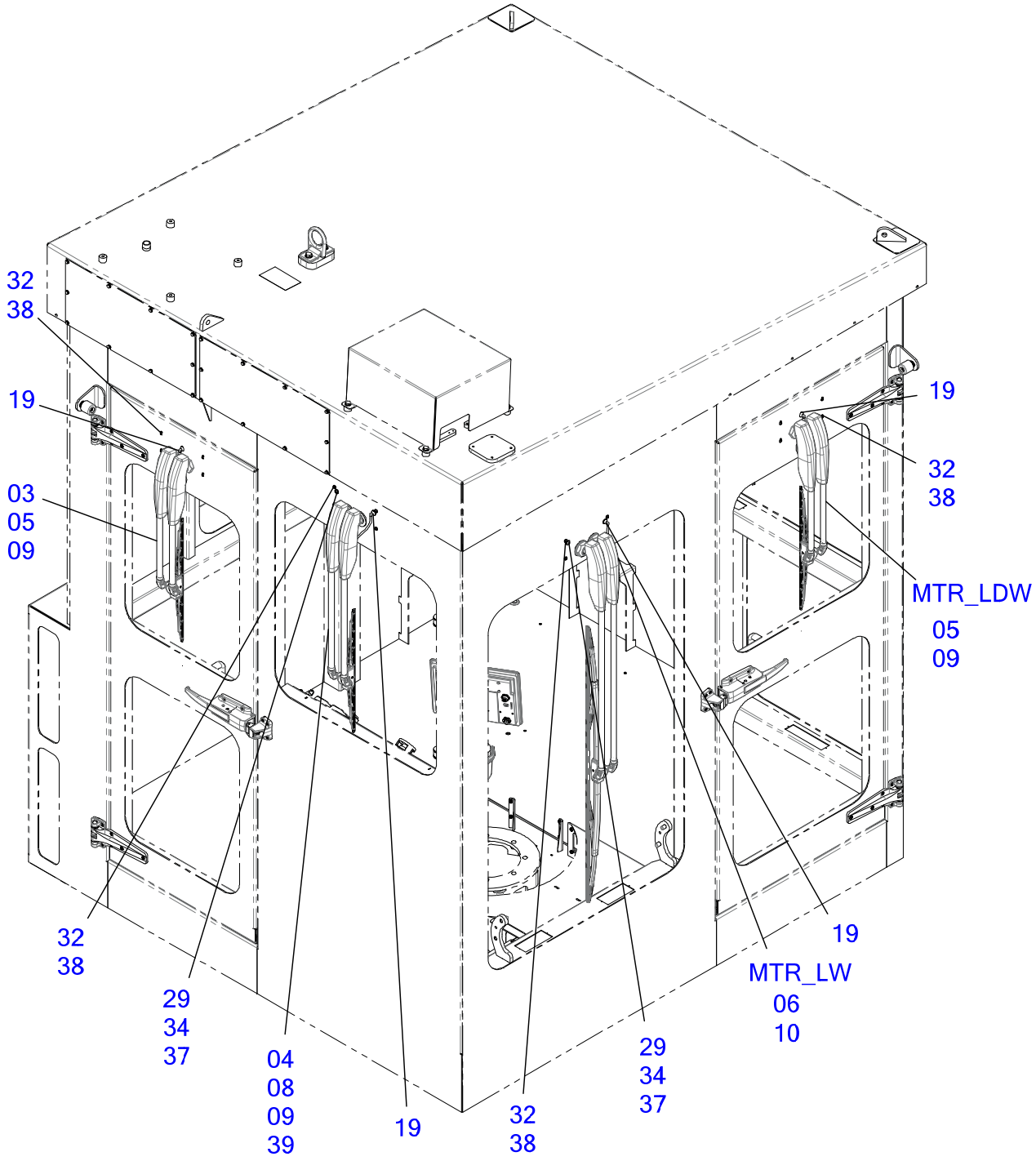
R103719D2
1 OF 1

JOYSTICK ASSY,LH

JOYSTICK ASSEMBLY, LEFT HAND

Item	Part No.	Description	Qty.
	R103719D2	JOYSTICK ASSEMBLY, LEFT HAND	
01	R75218D1	▪ BOOT	1
02	R103719D3	▪ BASE, Joystick	1
03	R103719D5	▪ JOYSTICK, Left Hand	1

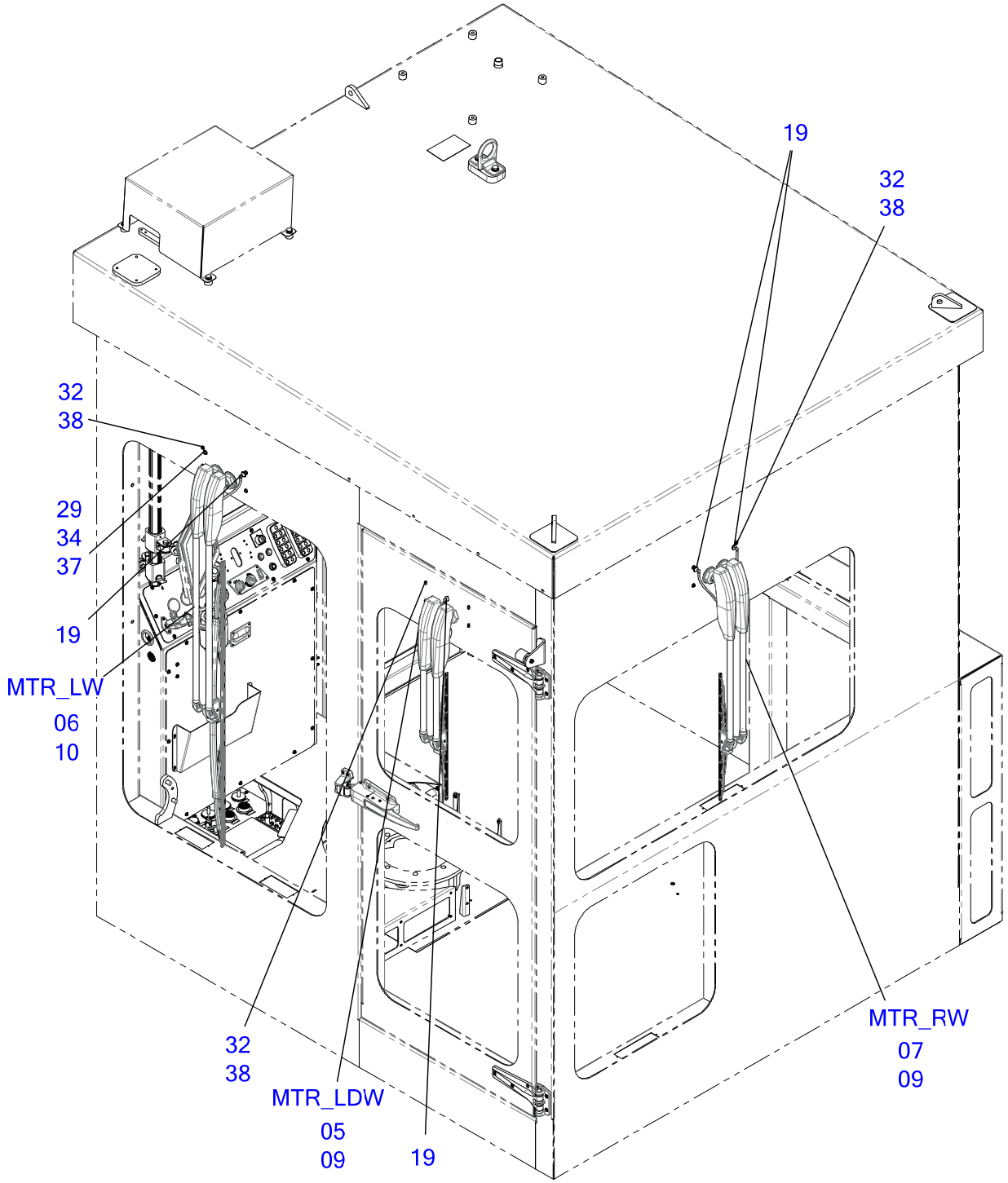
WINDSHIELD WIPER, OPERATOR CAB



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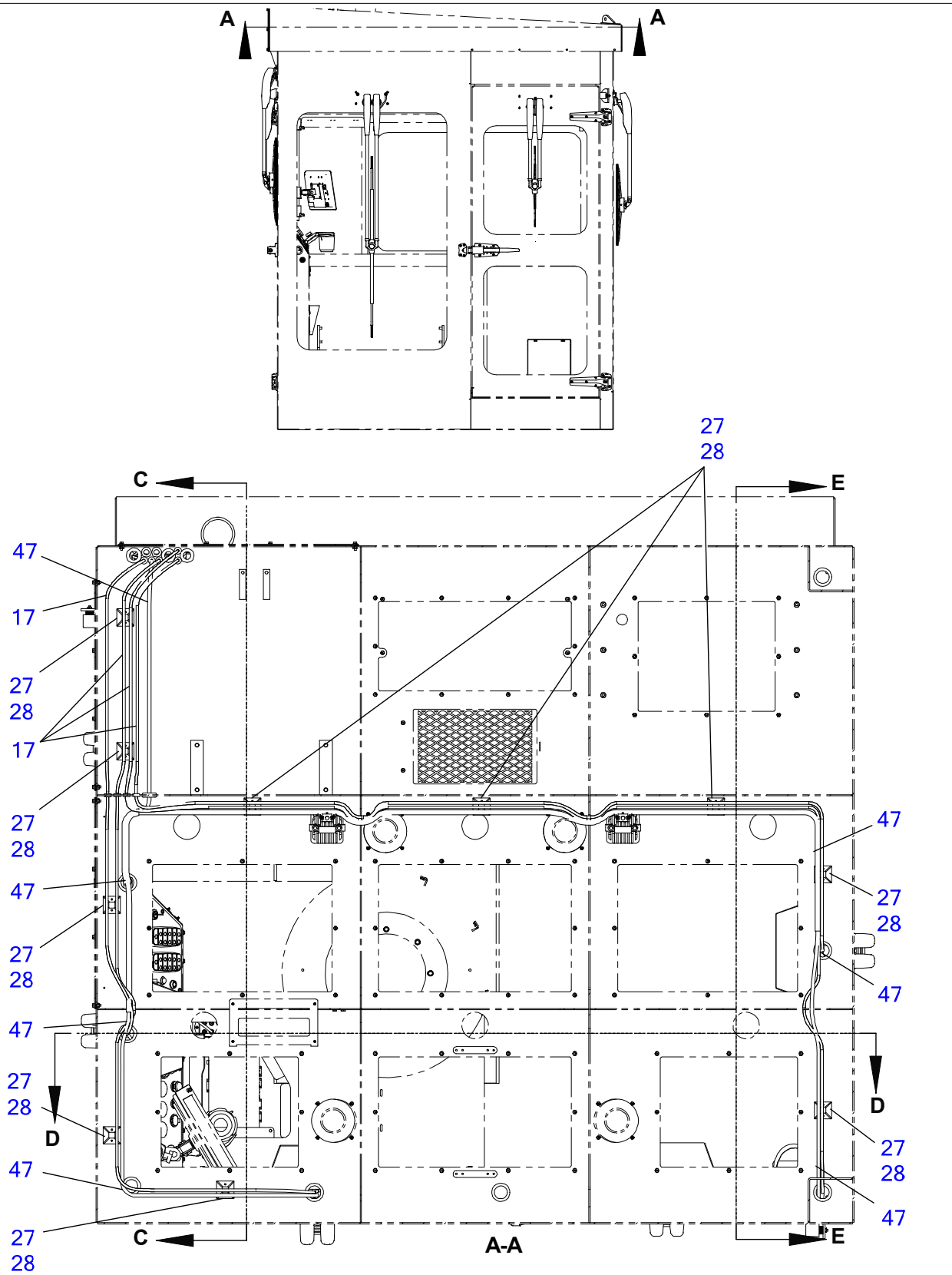
WINDSHIELD WIPER, OPERATOR CAB

WINDSHIELD WIPER, OPERATOR CAB



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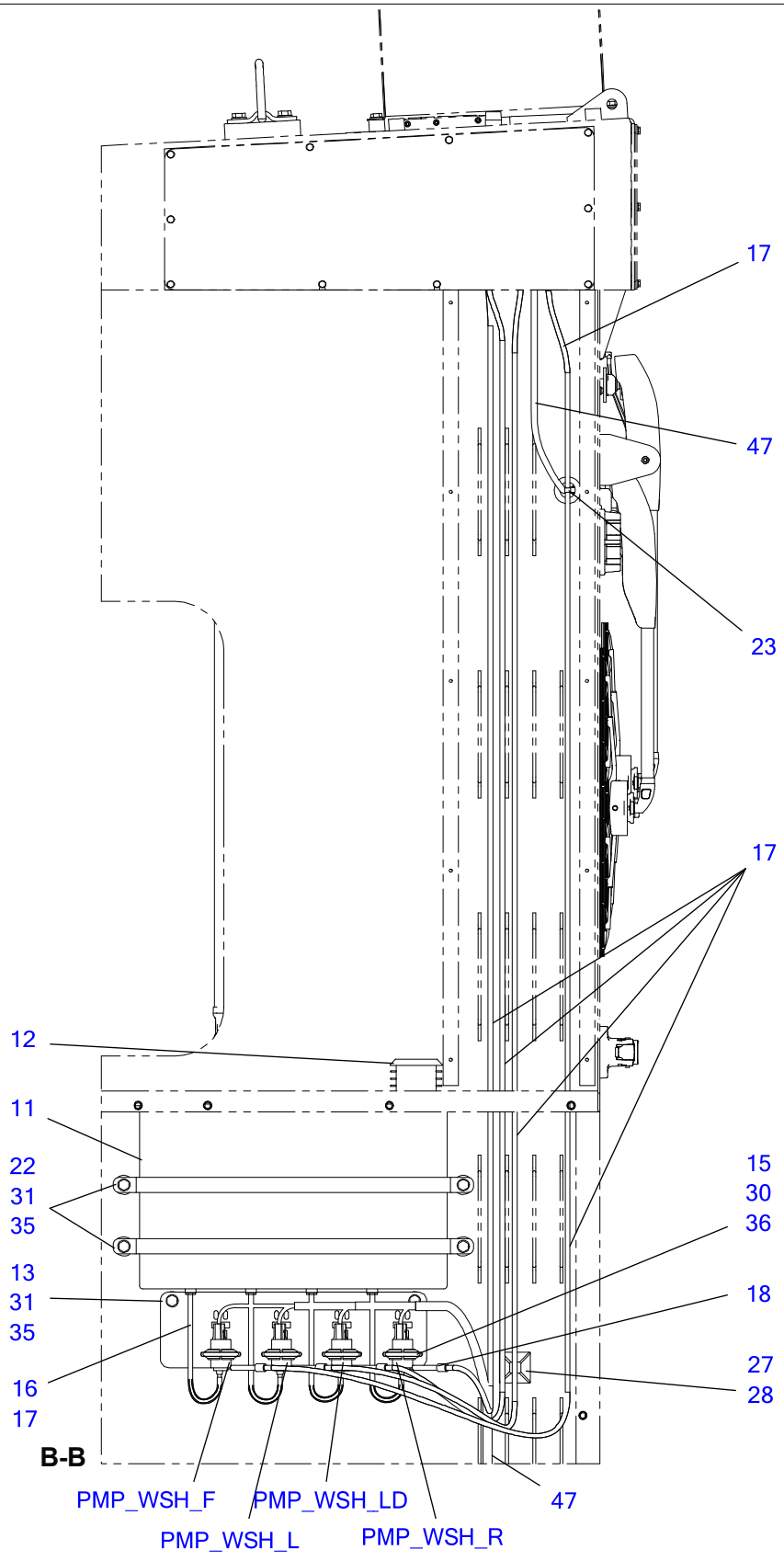
WINDSHIELD WIPER, OPERATOR CAB



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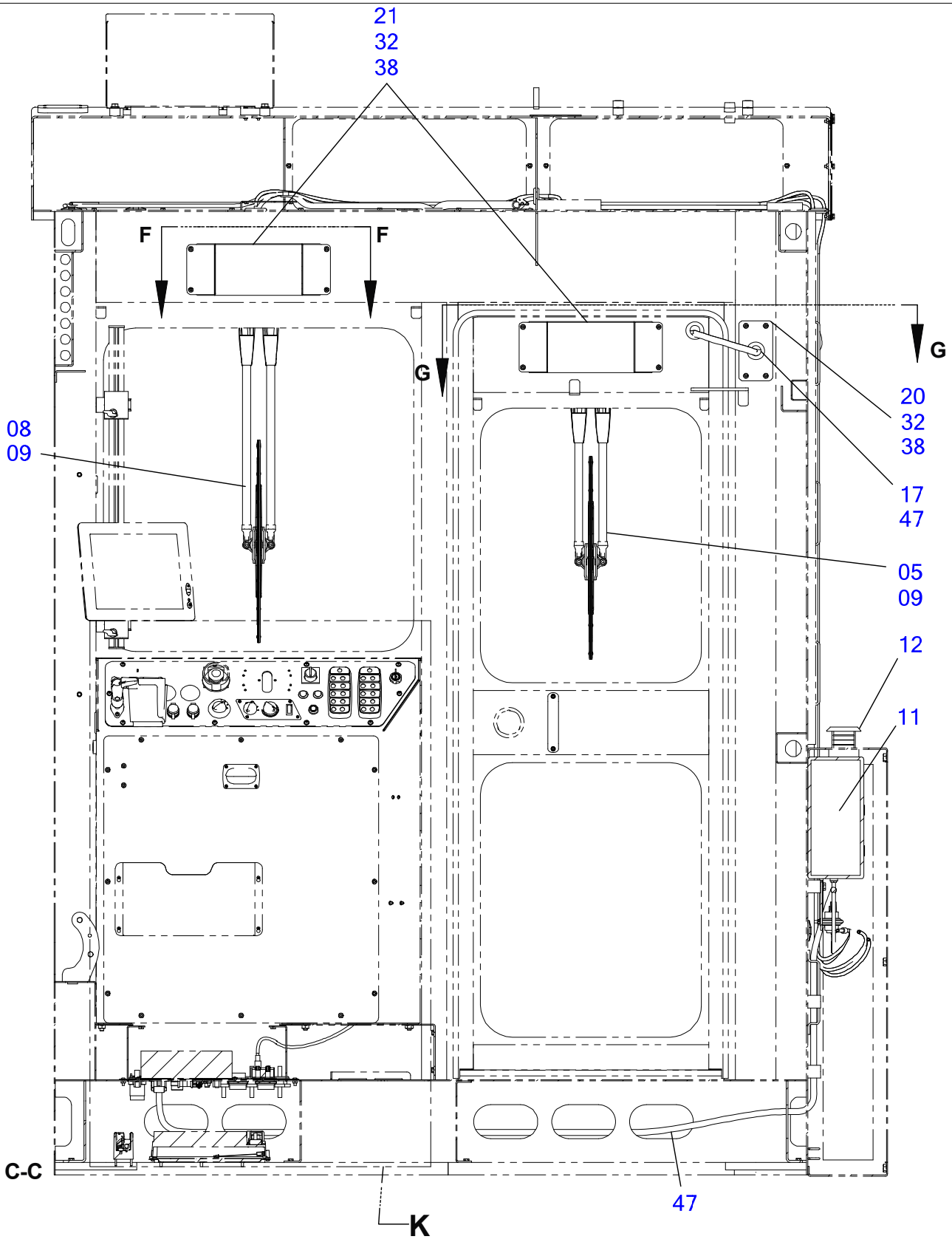
WINDSHIELD WIPER, OPERATOR CAB

WINDSHIELD WIPER, OPERATOR CAB



WINDSHIELD WIPER, OPERATOR CAB

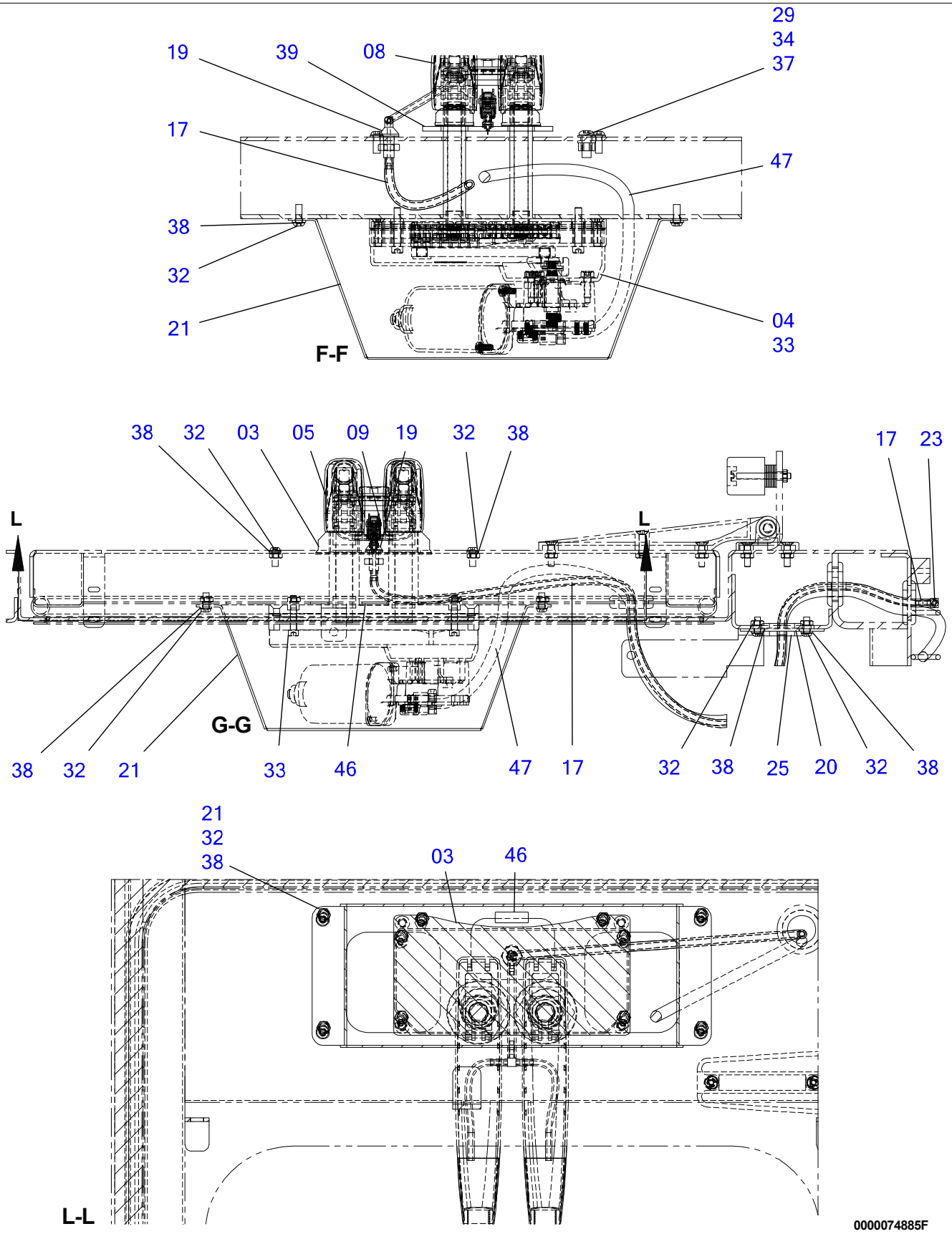
WINDSHIELD WIPER, OPERATOR CAB



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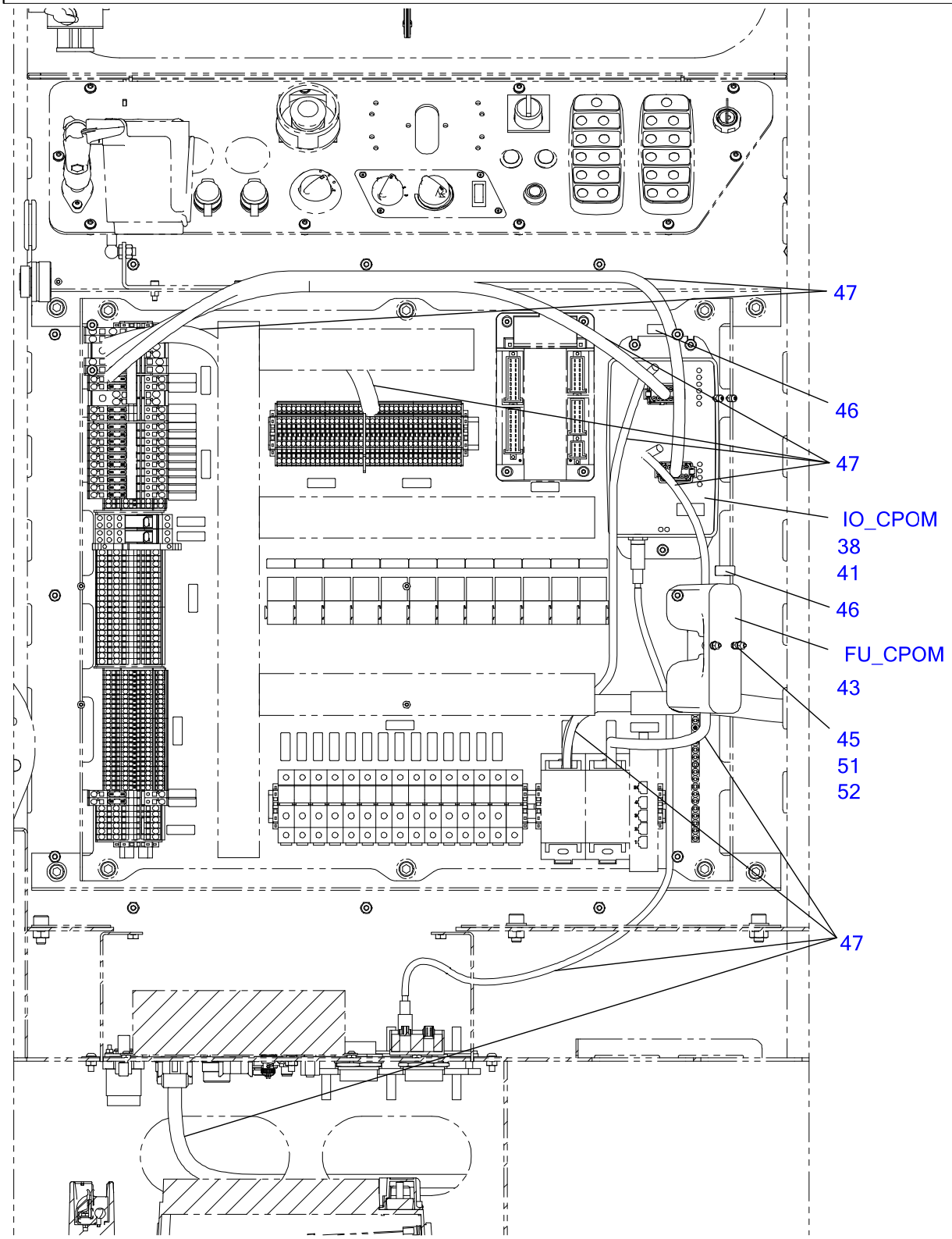
WINDSHIELD WIPER, OPERATOR CAB

WINDSHIELD WIPER, OPERATOR CAB



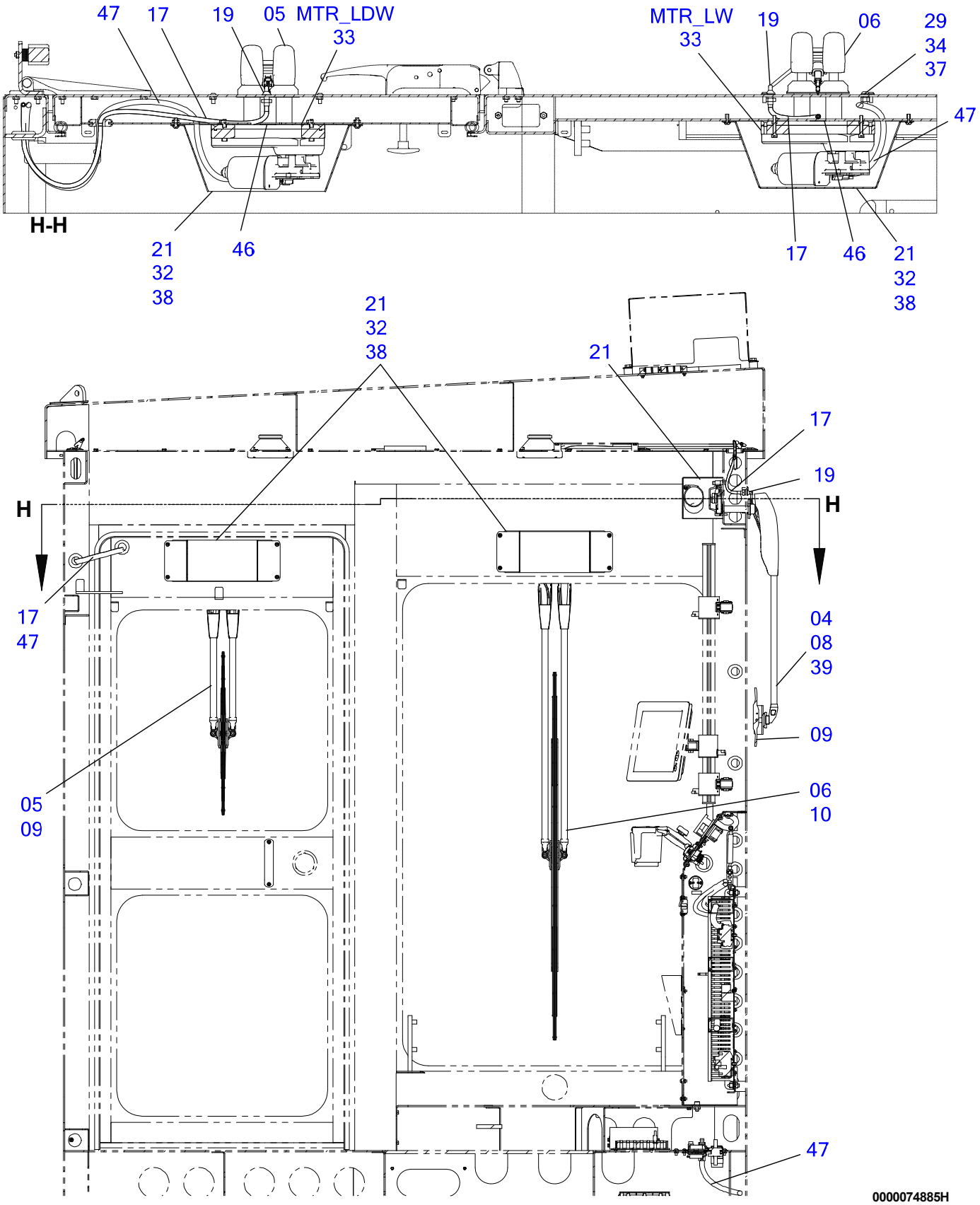
WINDSHIELD WIPER, OPERATOR CAB

WINDSHIELD WIPER, OPERATOR CAB



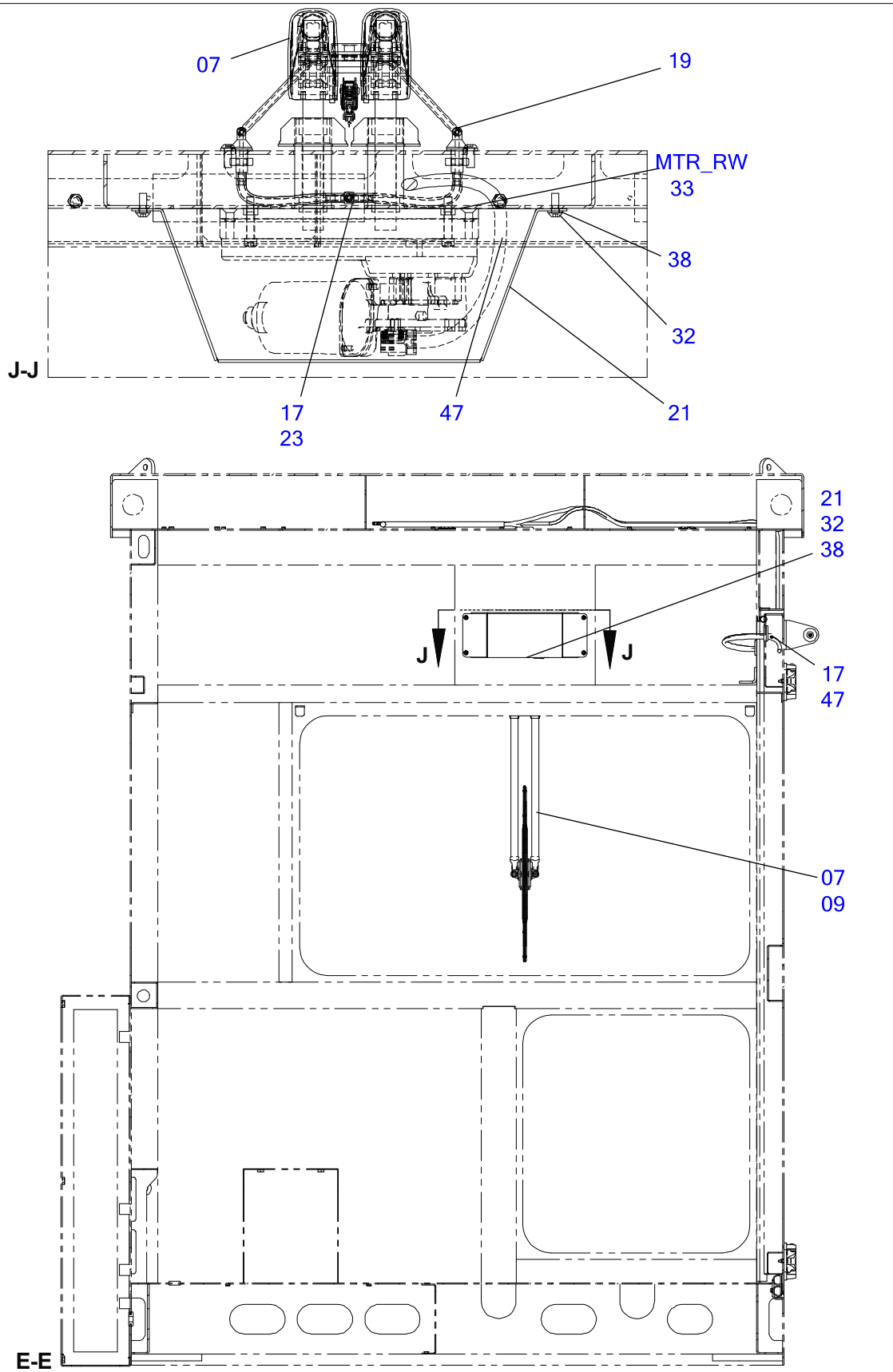
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WINDSHIELD WIPER, OPERATOR CAB



WINDSHIELD WIPER, OPERATOR CAB

WINDSHIELD WIPER, OPERATOR CAB



WINDSHIELD WIPER, OPERATOR CAB

KOMATSU

WINDSHIELD WIPER, OPERATOR CAB

Item	Part No.	Description	Qty.	Page
	R97548F1	WINDSHIELD WIPER, OPERATOR CAB		
MTR_LDW	R80583D1	· MOTOR, Wiper	1	
MTR_LW	R80583D1	· MOTOR, Wiper	1	
MTR_RW	R80583D5	· WIPER MOTOR, Rear	1	
03	R80583D6	· WIPER MOTOR, Front Door	1	
04	R99186D1	· WIPER MOTOR, Front	1	
05	R79277D5	· WIPER ARM, Double Drive	2	
06	R79277D3	· WIPER ARM, Double Drive	1	
07	R79277D4	· WIPER ARM, Double Drive	1	
08	R99187D1	· WIPER ARM, Double Drive	1	
09	R79278D5	· BLADE, Wiper	4	
10	R79278D3	· BLADE, Wiper	1	
11	R98872D1	· TANK, Washer Fluid, 5 Gallon	1	
12	R99120D1	· CAP, Vent	1	
13	R99115D1	· BRACKET, Washer Pump	1	
PMP_WSH_LD	R90559D1	· WASHER PUMP, Rear	1	
PMP_WSH_F	R90559D1	· WASHER PUMP, Rear	1	
PMP_WSH_R	R90559D1	· WASHER PUMP, Rear	1	
PMP_WSH_L	R90559D1	· WASHER PUMP, Rear	1	
15	R99117D1	· CLAMP, U-Bolt	4	
16	R80803D1	· FITTING, Hose Barb	4	
17	R91847D1	· TUBE	2	
18	R97863D1	· VALVE, Check	4	
19	R80584D1	· ELBOW ASSEMBLY, 90 Degree Bulkhead	6	
20	R99118D1	· COVER, Corner Post	1	
21	R99171D1	· SHROUD, Wiper Motor	5	
22	R99116D1	· MOUNT, Washer Fluid Tank	2	
23	R91788D1	· TEE, Barbed	4	
24		NOT USED		
25	R98812D74	· GROMMET, Push-In, Rubber	1	
26		NOT USED		
27	R99138D1	· MOUNT, Cable Tie	11	
28	R88249D1	· TIE, Wire	16	
29	2104M008	· NUT, Hex	2	
30	20Q270D16	· NUT, Hex	8	
31	0825M10020	· BOLT, Hex Hd	6	
32	0836M06016	· SCREW, Button Hd Cap	44	
33	0831M06035	· SCREW, Socket Head	10	
34	0836M08020	· SCREW, Button Hd Cap	2	
35	3612M010	· WASHER, Plain	6	

WINDSHIELD WIPER, OPERATOR CAB

Item	Part No.	Description	Qty.	Page
36	3631V005	▪ WASHER, Plain	8	
37	3612M008	▪ WASHER, Plain	4	
38	3612M006	▪ WASHER, Plain	47	
39	3632V010	▪ WASHER, Plain	2	
IO_CPOM	R98538D1	▪ POWER DISTRIBUTION MODULE, 100A	1	
41	0836M06025	▪ SCREW, Button Hd Cap	3	
42		NOT USED		
43	R23969D10	▪ FUSE BLOCK, 1-Pole	1	
FU_CPOM	79U2594D14	▪ FUSE, 70A	1	
45	0830M04020	▪ SCREW, Socket Head	2	
46	R91044D1	▪ DECALS	1	
47	R89740F71	▪ WIRE LIST, Cab Wiper	1	250
48		NOT USED		
49		NOT USED		
50		NOT USED		
51	3612M004	▪ WASHER, Plain	4	
52	2104M004	▪ NUT, Hex	2	

KOMATSU

WIRE LIST, CAB WIPER (Not Illustrated)

Item	Part No.	Description	Qty.	Unit
	R89740F71	WIRE LIST, CAB WIPER		
01		NOT USED		
02		NOT USED		
03		▪ CABLE, 14AWG, Red	1	
	208481291	▪ ▪ CABLE, 14AWG, Red	81	Foot
04		▪ CABLE, 16AWG, Black	1	
	208481190	▪ ▪ CABLE, 16AWG, Black	132	Foot
05		▪ CABLE, 16AWG, Red	1	
	208481191	▪ ▪ CABLE, 16AWG, Red	390	Foot
06		▪ CABLE, 2AWG, Black	1	
	505581704	▪ ▪ CABLE, 2AWG, Black	?	Foot
07	79U2522D37	▪ LUG, Terminal	1	
08	R4264188	▪ CABLE, 5 Pin	1	
09	R84897D5	▪ PIN, Receptacle	8	
10	R84897D7	▪ PIN, Receptacle Contact	24	
11	R90748D1	▪ CONNECTOR, 12 Pin	1	
12	R90748D2	▪ CONNECTOR, 12 Pin	1	
13	R90748D3	▪ CONNECTOR, 12 Pin	2	
14	R90749D1	▪ CONNECTOR, 2 Pole	4	
15	R90749D2	▪ CONNECTOR, Terminal	8	
16	R99502D2	▪ CONNECTOR PLUG, 8 Pin	1	
17	R99502D4	▪ PLUG, Locking Wedge, 8 Pin	1	
18	R99601D1	▪ PLUG, Wiper Motor, Housing	5	
19	R99601D2	▪ PLUG, Wiper Motor, Receptacle Terminal	25	
20	R99601D3	▪ PLUG, Wiper Motor, Wire Seal	25	
21	R99601D4	▪ PLUG, Wiper Motor, Wire Seal	5	
22	R99601D5	▪ PLUG, Wiper Motor, Rear Holder	5	
23	R90493D1	▪ LABELS, Wire, Cab Wiper	1	

KOMATSU

INSTALLATION, AUTOMATION MONITOR AND HMI

Item	Part No.	Description	Qty.	Page
	R113860F1	INSTALLATION, AUTOMATION MONITOR AND HMI		
01	R92949D1	▪ SWIVEL MOUNT, Rail	1	
02	R107797D1	▪ MOUNT, Pan Tilt Zoom (PTZ) Power Supply	1	
03	R111487F1	▪ COMPUTER, Human Machine Interface (HMI) - Programmed	1	
04	R57761D2	▪ RAIL, Mounting	1	
05	R80858D3	▪ BLOCK, Terminal, Fuse - with LED	2	
06	R82620D1	▪ BLOCK, Terminal (Gray)	2	
07	R93028D1	▪ NUT, T-Slot	1	
08	R120926D1	▪ TOUCHSCREEN	1	
09	R82385D1	▪ BRIDGE, Plug-In, 2 Position	1	
10	R82378D1	▪ BRIDGE, Plug-In, 2 Position	1	
11	R82706D2	▪ FUSE, 2A	1	
12	R82376D1	▪ CLAMP, End	2	
13	R82706D5	▪ FUSE, 5A	1	
14	R82705D1	▪ PLATE, Spacer	1	
15	0836M04016	▪ SCREW, Button Hd Cap	4	
16	3612M004	▪ WASHER, Plain	8	
17	3612M006	▪ WASHER, Plain	8	
18	0825M06016	▪ BOLT, Hex Hd	4	
19	2104M006	▪ NUT, Hex	2	
20	2104M004	▪ NUT, Hex	4	
21	0836M06020	▪ SCREW, Button Hd Cap	2	
22	R4239844	▪ ADAPTER, Communication Port	1	
23	R114370F296	▪ CABLE INSTALLATION, Automation, Human Machine Interface (HMI)	1	252

INSTALLATION, AUTOMATION HMI CABLE OPTION (Not Illustrated)

Item	Part No.	Description	Qty.
	R114370F296	INSTALLATION, AUTOMATION HMI CABLE OPTION (Not Illustrated)	
WID001	R114370F296Y1	▪ CABLE, #16 Black	1
WID002	R114370F296Y2	▪ CABLE, #16 Black	1
WID003	R114370F296Y3	▪ CABLE, #16 Black	1
WID004	R114370F296Y4	▪ CABLE, #16 Black	1
CBL25C-08A	R112537D1	▪ CABLE, HDMI	1
CBL25C-12A	R4268346	▪ CBL USB 2.0 A/B IP65 5M	1

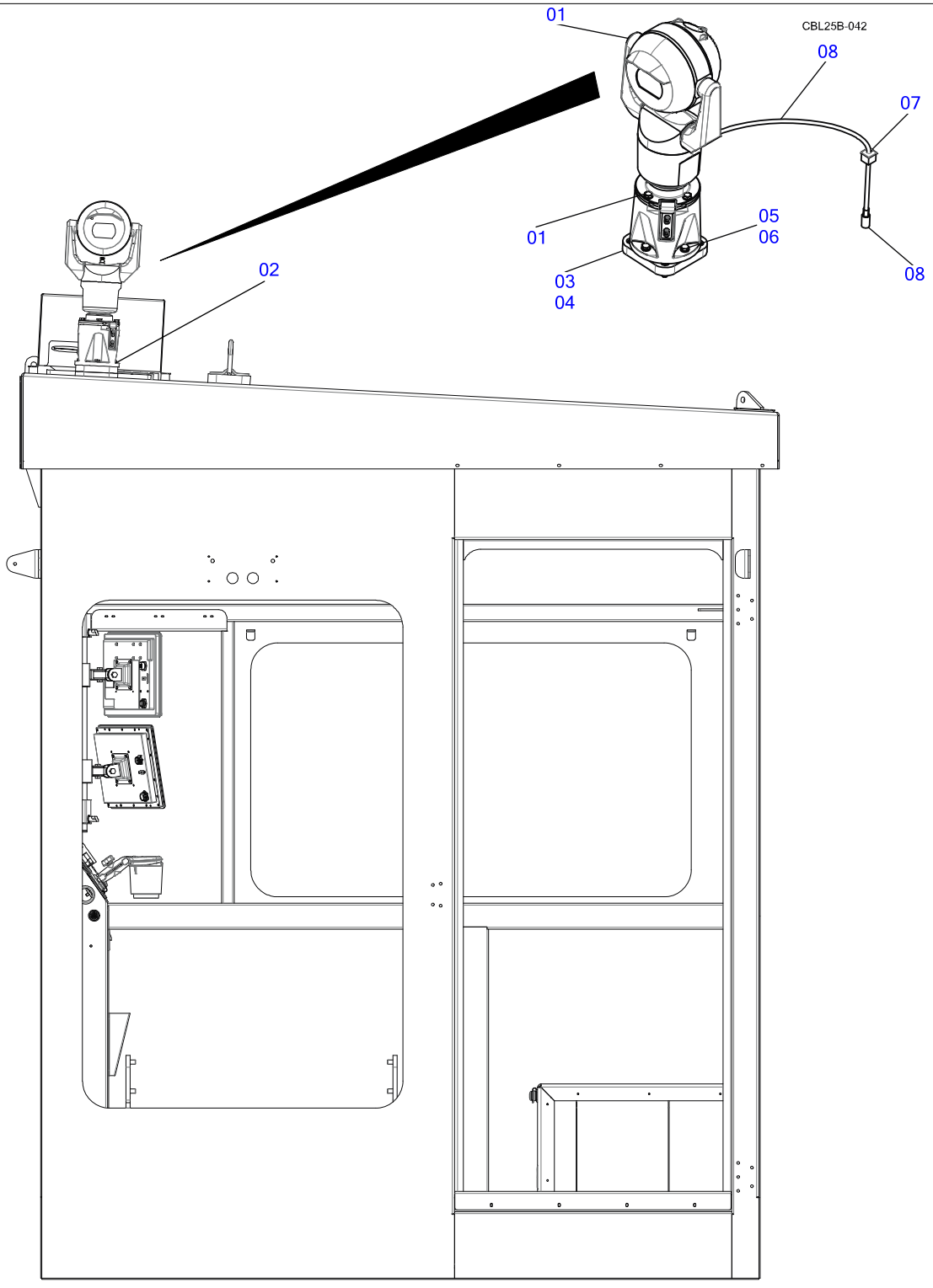
INSTALLATION, TELE-OP

Item	Part No.	Description	Qty.	Page
	R113862F1	INSTALLATION, TELE-OP		
01	R97604D1	▪ LOCAL MODE SELECT PUSHBUTTON (CAB)	2	
02	R97604D2	▪ REMOTE MODE AVAILABLE (CAB)	1	
03	R114370F298	▪ INSTALLATION, TELE-OP Buttons Cable Option	1	254
04	79Z2721D7	▪ CONTACT BLOCK	1	

INSTALLATION, TELE-OP BUTTONS CABLE OPTION (Not Illustrated)

Item	Part No.	Description	Qty.
	R114370F298	INSTALLATION, TELE-OP BUTTONS CABLE OPTION (Not Illustrated)	
WID001	R114370F298Y1	・CABLE #14, Black	1
WID002	R114370F298Y2	・CABLE #14, Black	1
WID003	R114370F298Y3	・CABLE #14, Black	1
WID004	R114370F298Y4	・CABLE #14, Black	1
WID005	R114370F298Y5	・CABLE #14, Black	1
WID006	R114370F298Y6	・CABLE #14, Black	1
WID007	R114370F298Y7	・CABLE #14, Black	1
WID008	R114370F298Y8	・CABLE #14, Black	1
WID009	R114370F298Y9	・CABLE #14, Black	1
WID010	R114370F298Y10	・CABLE #14, Black	1
WID011	R114370F298Y11	・CABLE #14, Black	1
WID012	R114370F298Y12	・CABLE #14, Black	1
WID013	R114370F298Y13	・CABLE #14, Black	1

INSTALLATION, PTZ



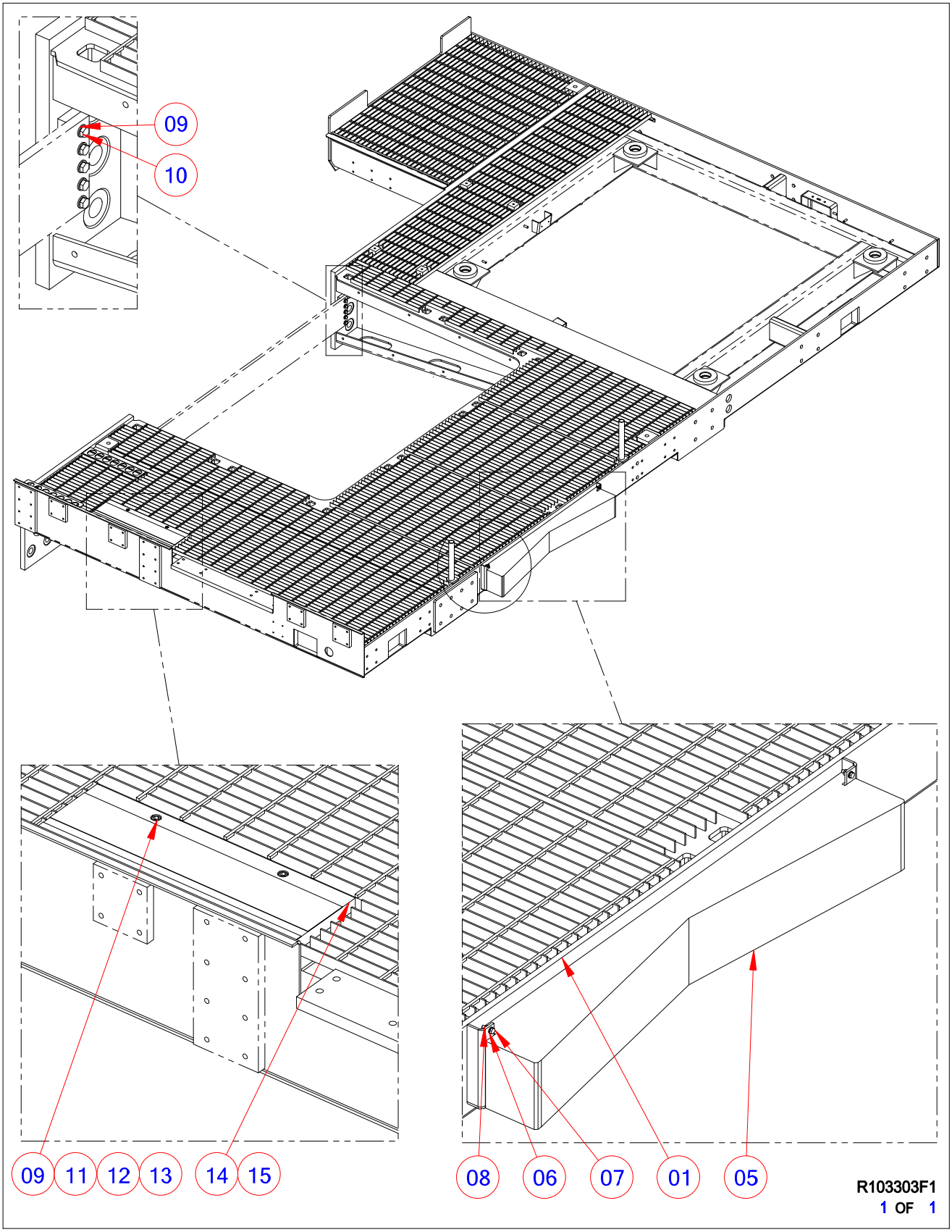
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INSTALLATION, PTZ

INSTALLATION, PTZ

Item	Part No.	Description	Qty.
	R113861F2	INSTALLATION, PTZ	
01	R117629D1	▪ CAMERA, PTZ	1
02	R119091D1	▪ BASE, PTZ Mount	1
03	R122318D1	▪ ADAPTER PLATE	1
04	0630M08020	▪ SCREW, Socket Head	4
05	0825M08030	▪ BOLT, Hex Hd	4
06	3612M008	▪ WASHER, Flat	4
07	R105592D7	▪ GROMMET, ICOTEK	1
CBL25B-042	R118230D250	▪ CABLE	1

REAR DECK

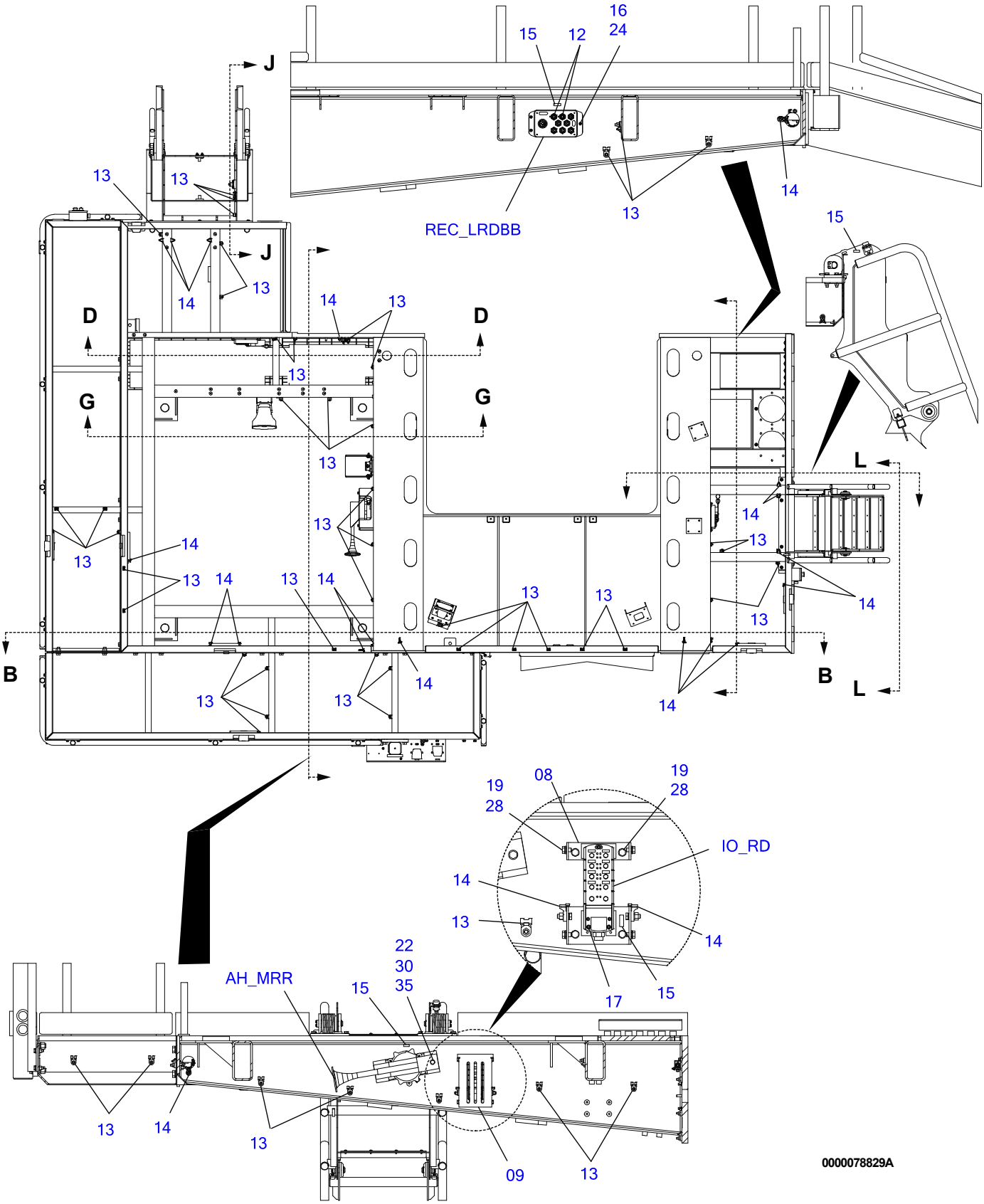


REAR DECK ASSEMBLY

REAR DECK

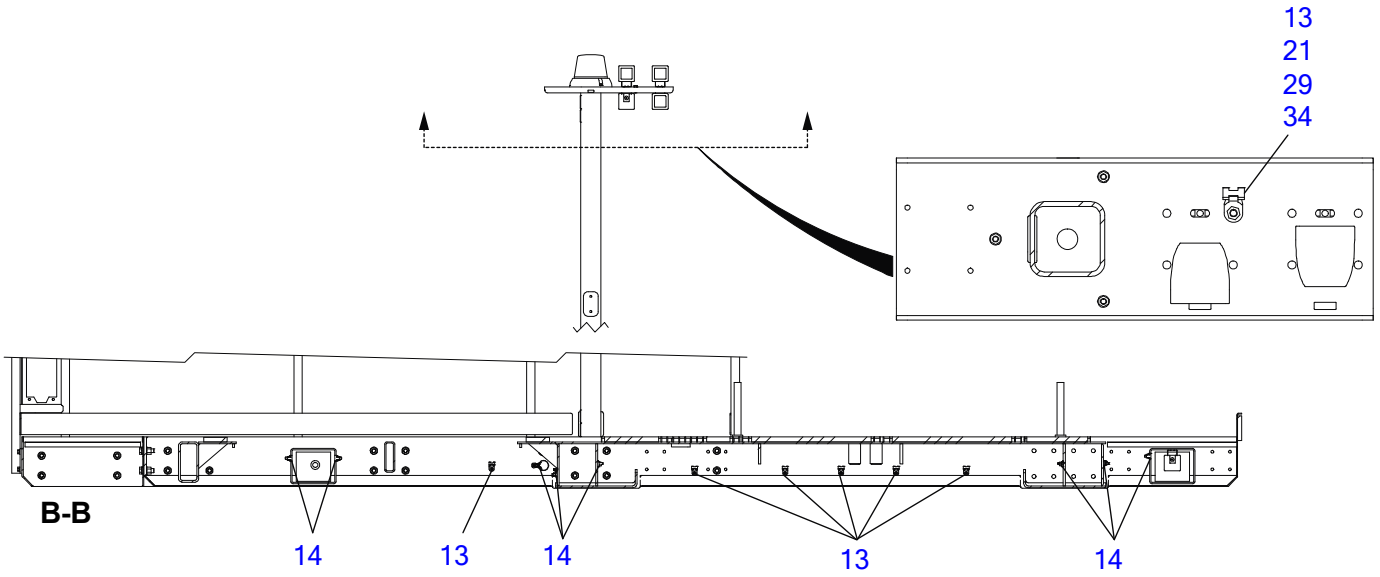
Item	Part No.	Description	Qty.
	R103303F1	REAR DECK	
01	R103301D2	▪ REAR DECK	1
02-04		NOT USED	
05	R98493D1	▪ BUMPER, Rear Deck	1
06	3648M006	▪ WASHER, Hardened	4
07	0825M06020	▪ BOLT, Hex Hd	2
08	2104M006	▪ NUT, Hex	2
09	3648M012	▪ WASHER, Hardened	4
10		NOT USED	
11	0630M12040	▪ SCREW, Socket Head	4
12	21Z772D4	▪ COMPOUND, Sealing and Locking	1
13	2104M012	▪ NUT, Hex	4
14	R104357D1	▪ COVER, Rear Deck	1
15	R94400D16	▪ TAPE	1

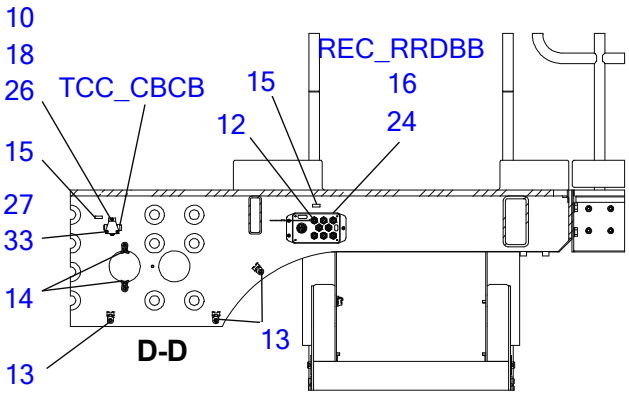
ELECTRICAL, REAR DECK

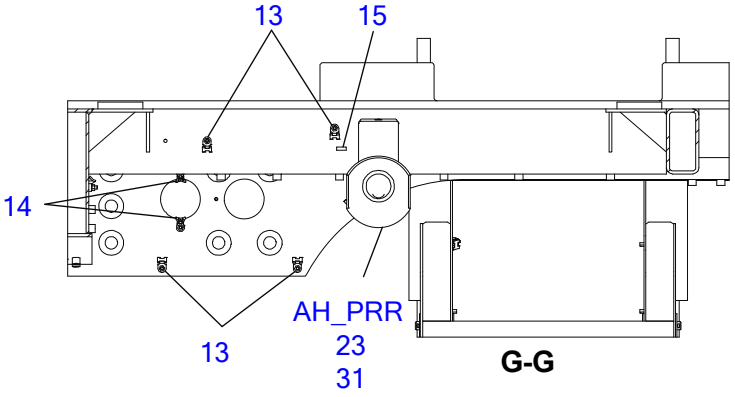


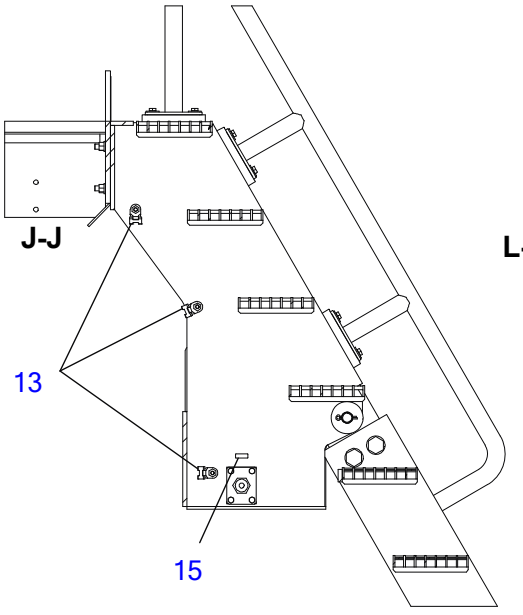
ELECTRICAL, REAR DECK

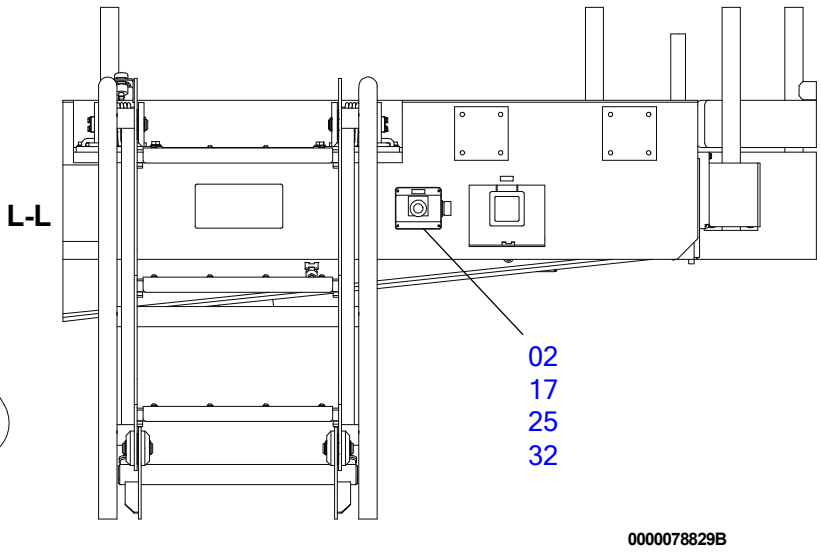
ELECTRICAL, REAR DECK







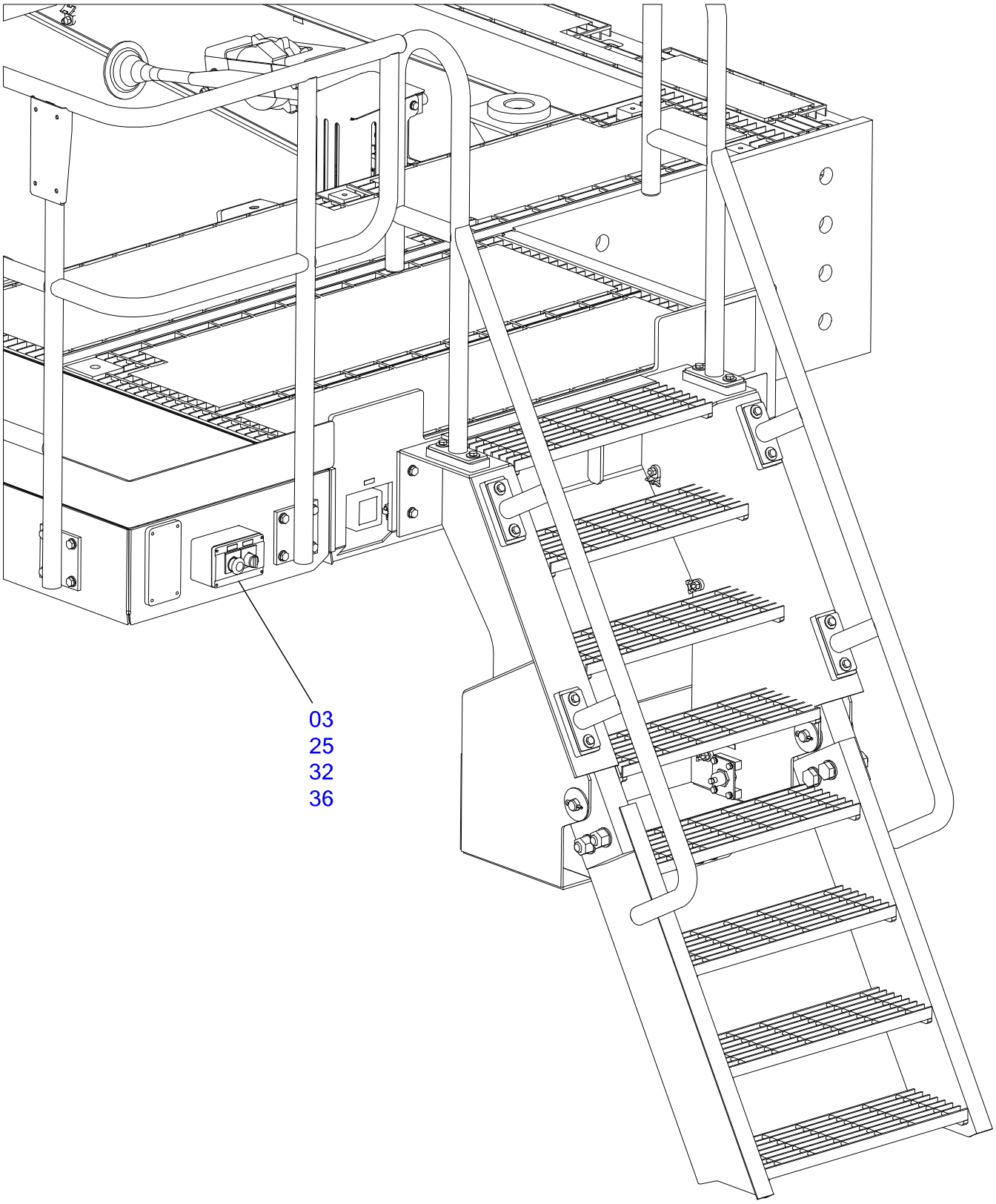




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ELECTRICAL, REAR DECK CONT.

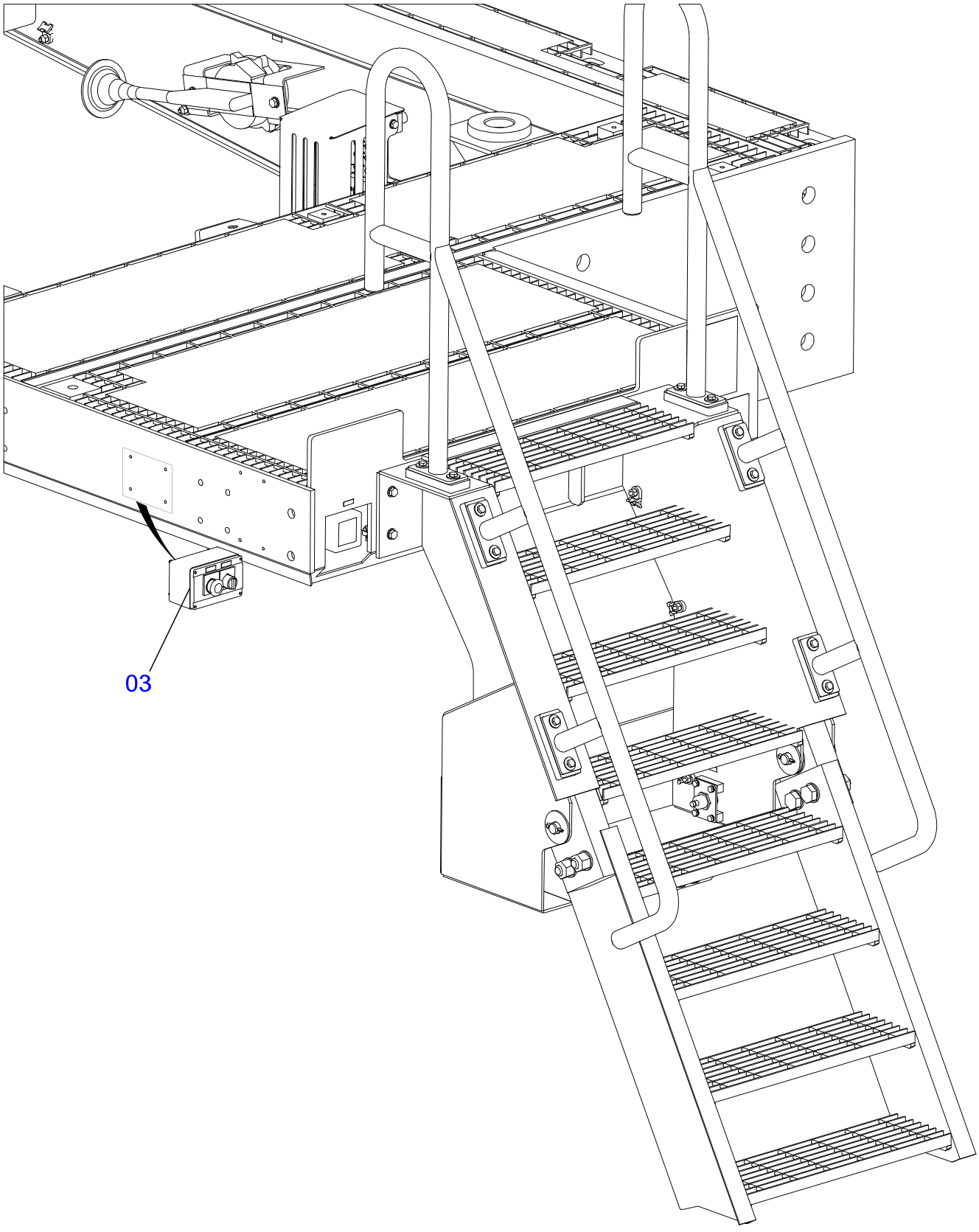
ELECTRICAL, REAR DECK



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OPTION WITH REAR DECK PLATFORM

ELECTRICAL, REAR DECK



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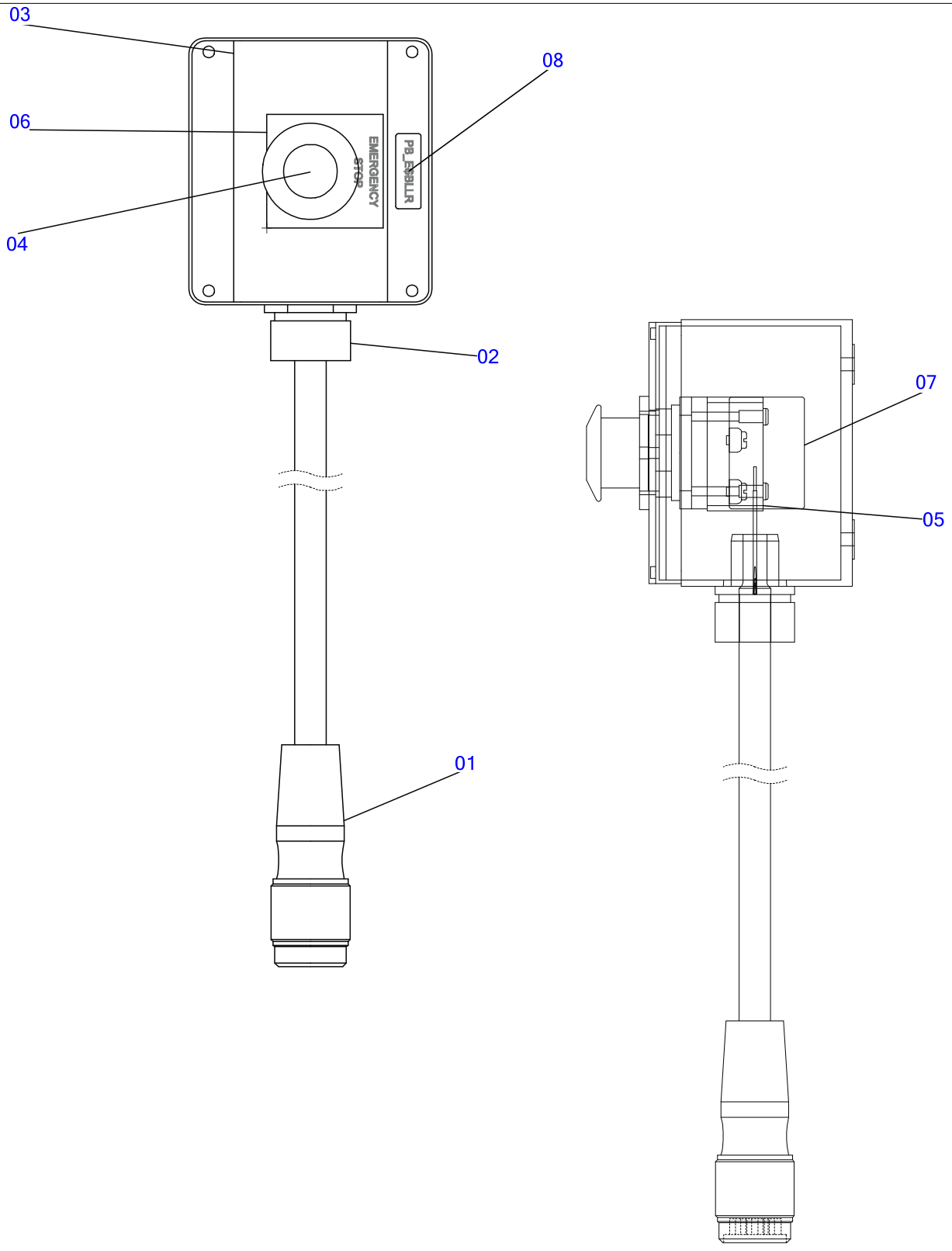
OPTION WITHOUT REAR DECK PLATFORM

KOMATSU

ELECTRICAL, REAR DECK

Item	Part No.	Description	Qty.	Page
	R104382F1	ELECTRICAL, REAR DECK		
REC_RRDBB	R90735D1	▪ RECEPTACLE, Breakout Box	1	
REC_LRDBB	R90735D1	▪ RECEPTACLE, Breakout Box	1	
02	R90734F5	▪ PB STATION, E-Stop, Left Rear	1	258
03	R90734F2	▪ PB STATION, E-Stop, Main Boarding	1	259
IO_RD	R74817D1	▪ MODULE, I/O	1	
AH_PRR	R89374D1	▪ SIREN, Electric - Propel	1	
AH_MRR	R89372D1	▪ HORN, Electric - Send Truck	1	
TCC_CBCB	R90737D1	▪ CONNECTOR, 5 Pole	1	
08	R89856D1	▪ BACK PLATE, 1 I/O, Small	1	
09	R89857D1	▪ HOOD, 1 I/O, Small	1	
10	R100974D1	▪ TEE MOUNT, One, Cover Plate	1	
11		NOT USED		
12	R73191D1	▪ CAP	3	
13	R88247D1	▪ MOUNT, Single	41	
14	R90641D1	▪ CABLE MOUNT, Edge, Single	21	
15	R91005D1	▪ DECALS	1	
16	0630M04016	▪ SCREW, Socket Head	8	
17	0630M05025	▪ SCREW, Socket Head	7	
18	0630M06008	▪ SCREW, Socket Head	1	
19	0825M10016	▪ BOLT, Hex Hd	8	
20		NOT USED		
21	0825M10030	▪ BOLT, Hex Hd	3	
22	0825M12030	▪ BOLT, Hex Hd	2	
23	3612M004	▪ WASHER, Plain	4	
24	R89928D3	▪ WASHER, Oversized	6	
25	18Z3087D1	▪ WASHER, Conical Lock	16	
26	R82264D19	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	1	
27	18Z3087D2	▪ WASHER, Conical Lock	2	
28	3612M010	▪ WASHER, Plain	8	
29	18Z3087D4	▪ WASHER, Conical Lock	64	
30	3612M012	▪ WASHER, Plain	4	
31	2104M004	▪ NUT, Hex	2	
32	2104M005	▪ NUT, Hex	8	
33	2104M006	▪ NUT, Hex	2	
34	2104M010	▪ NUT, Hex	61	
35	2104M012	▪ NUT, Hex	2	
36	0630M05030	▪ SCREW, Socket Head	4	

PUSHBUTTON STATION, LEFT REAR E-STOP



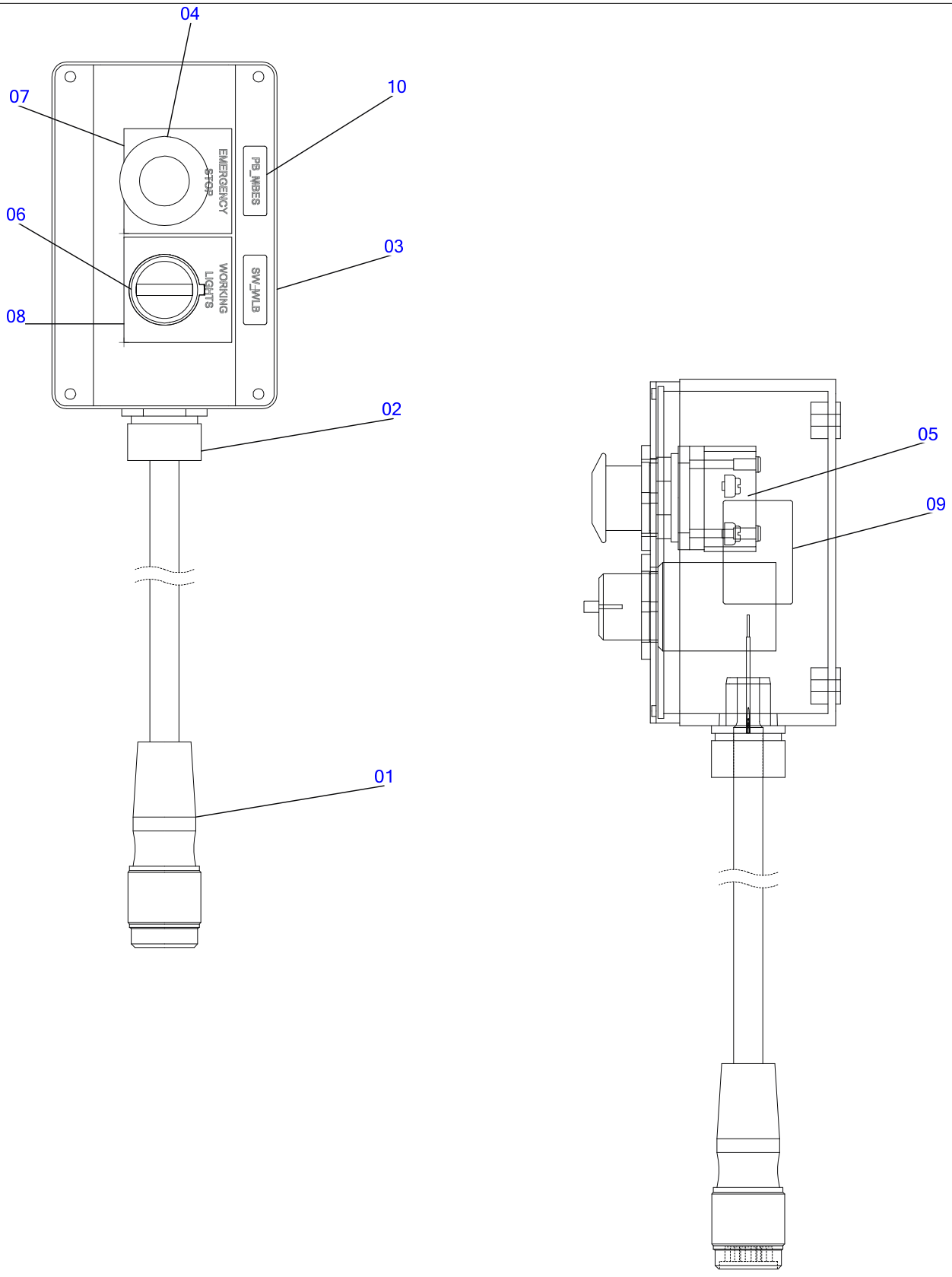
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PB STATION, LEFT REAR E-STOP

PUSHBUTTON STATION, LEFT REAR E-STOP

Item	Part No.	Description	Qty.
	R90734F5	PUSHBUTTON STATION, LEFT REAR E-STOP	
01	R90656T15D1000	▪ CABLE	1
02	85Z24D4	▪ GRIP, Cord	1
03	R90731D1	▪ ENCLOSURE, Pushbutton NEMA	1
04	79Z2717D60	▪ E-STOP PUSH BUTTON	1
05	79Z2721D7	▪ CONTACT BLOCK	1
06	R90729D3	▪ NAMEPLATE, Emergency Stop	1
07	R89888D1	▪ LABELS, Left Rear Boarding Wire	1
08	R91017D1	▪ DECALS, Left Rear Boarding	1

PUSHBUTTON STATION, MAIN BOARDING E-STOP



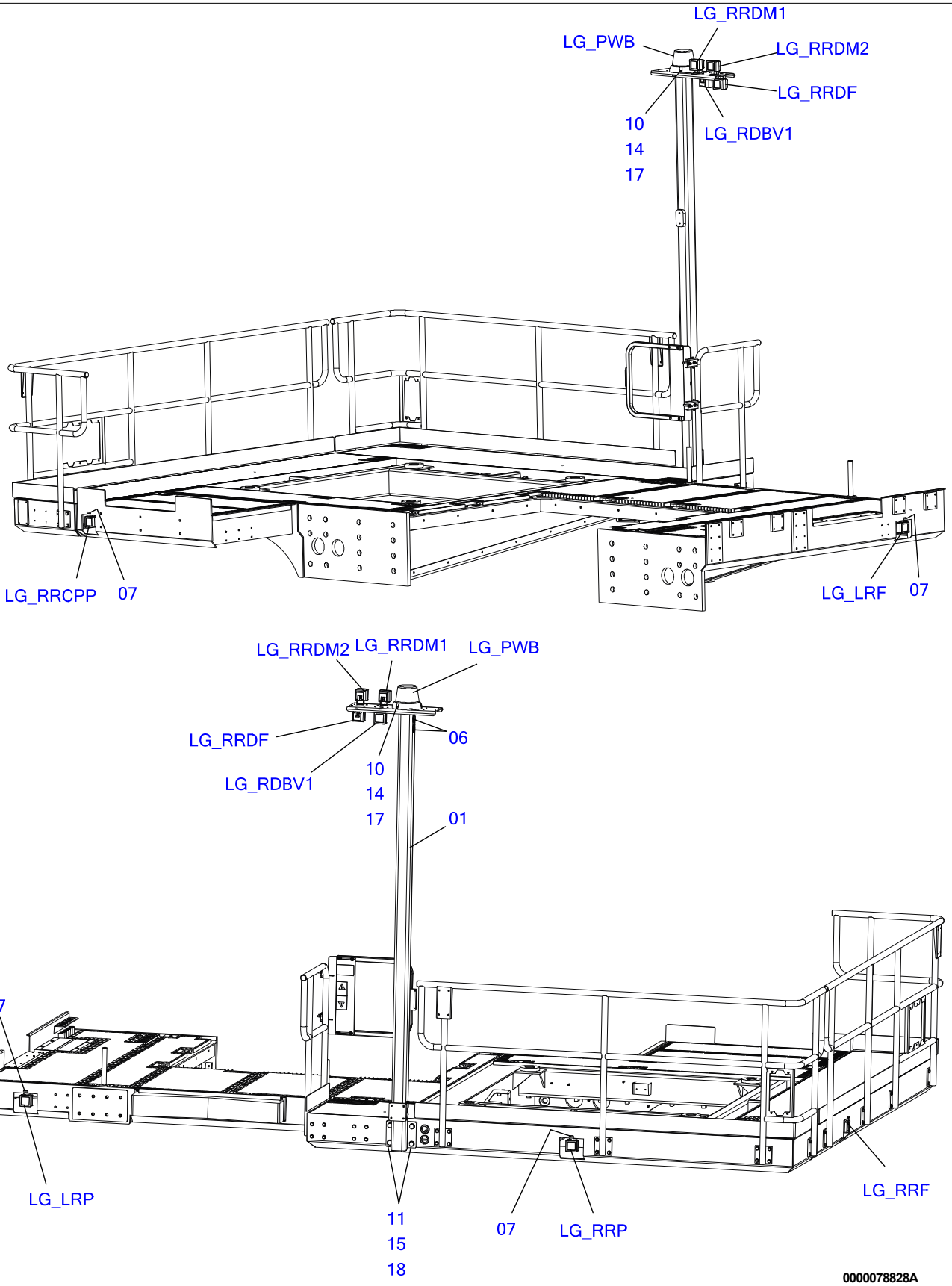
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PB STATION, MAIN BOARDING E-STOP

PUSHBUTTON STATION, MAIN BOARDING E-STOP

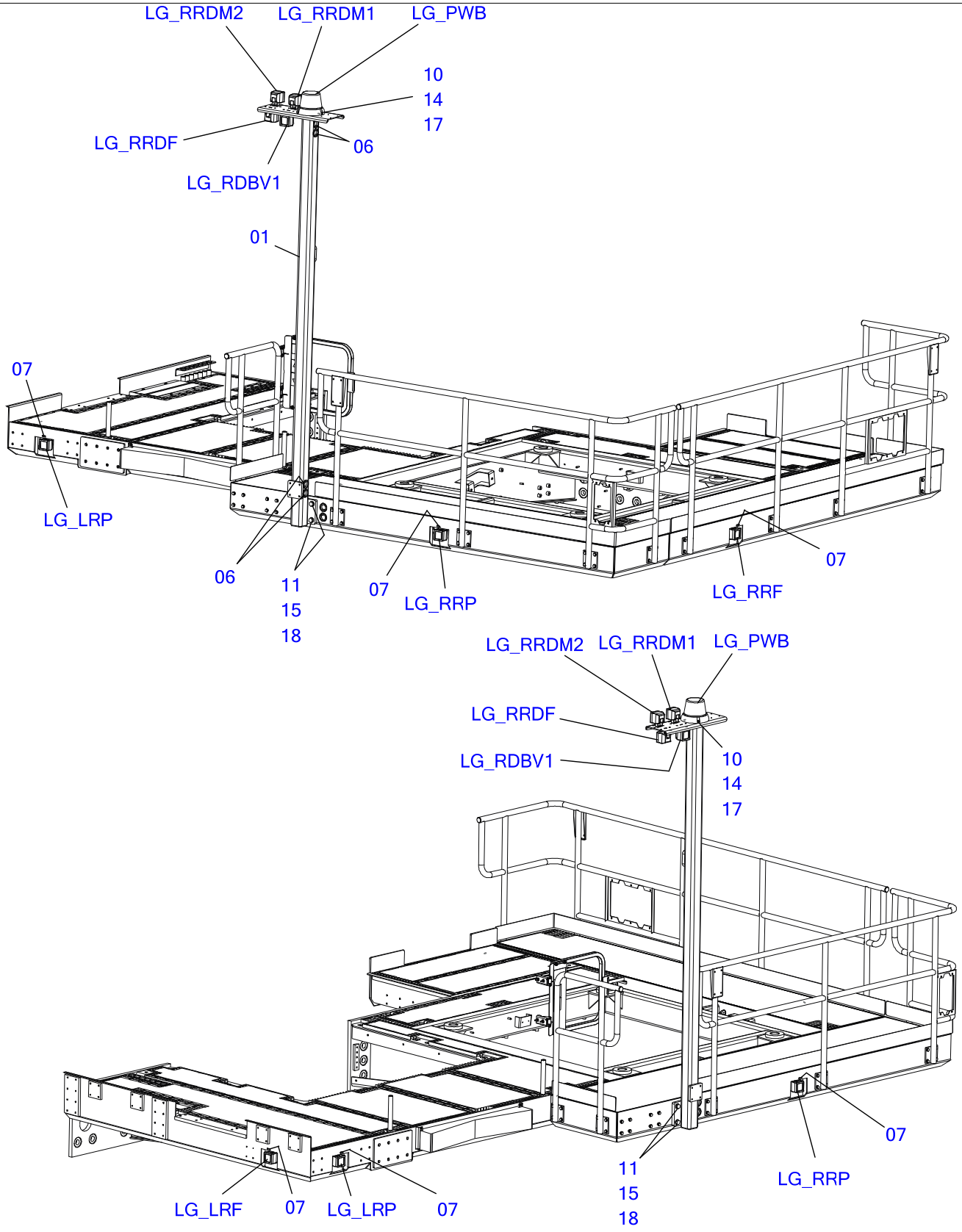
Item	Part No.	Description	Qty.
	R90734F2	PUSHBUTTON STATION, MAIN BOARDING E-STOP	
01	R4262045	▪ CABLE	1
02	85Z24D4	▪ GRIP, Cord	1
03	R90731D2	▪ ENCLOSURE	1
04	79Z2717D60	▪ E-STOP PUSH BUTTON	1
05	79Z2721D7	▪ CONTACT BLOCK	1
06	79Z2719D1	▪ SWITCH, 2 Position Selector	1
07	R90729D3	▪ NAMEPLATE, Emergency Stop, Yellow	1
08	R90729D5	▪ NAMEPLATE, Working Lights	1
09	R89889D1	▪ LABELS, Right Rear Boarding Wire	1
10	R91018D1	▪ DECALS, Right Rear Boarding	1

LIGHTING, REAR DECK



FRONT AND BACK VIEWS

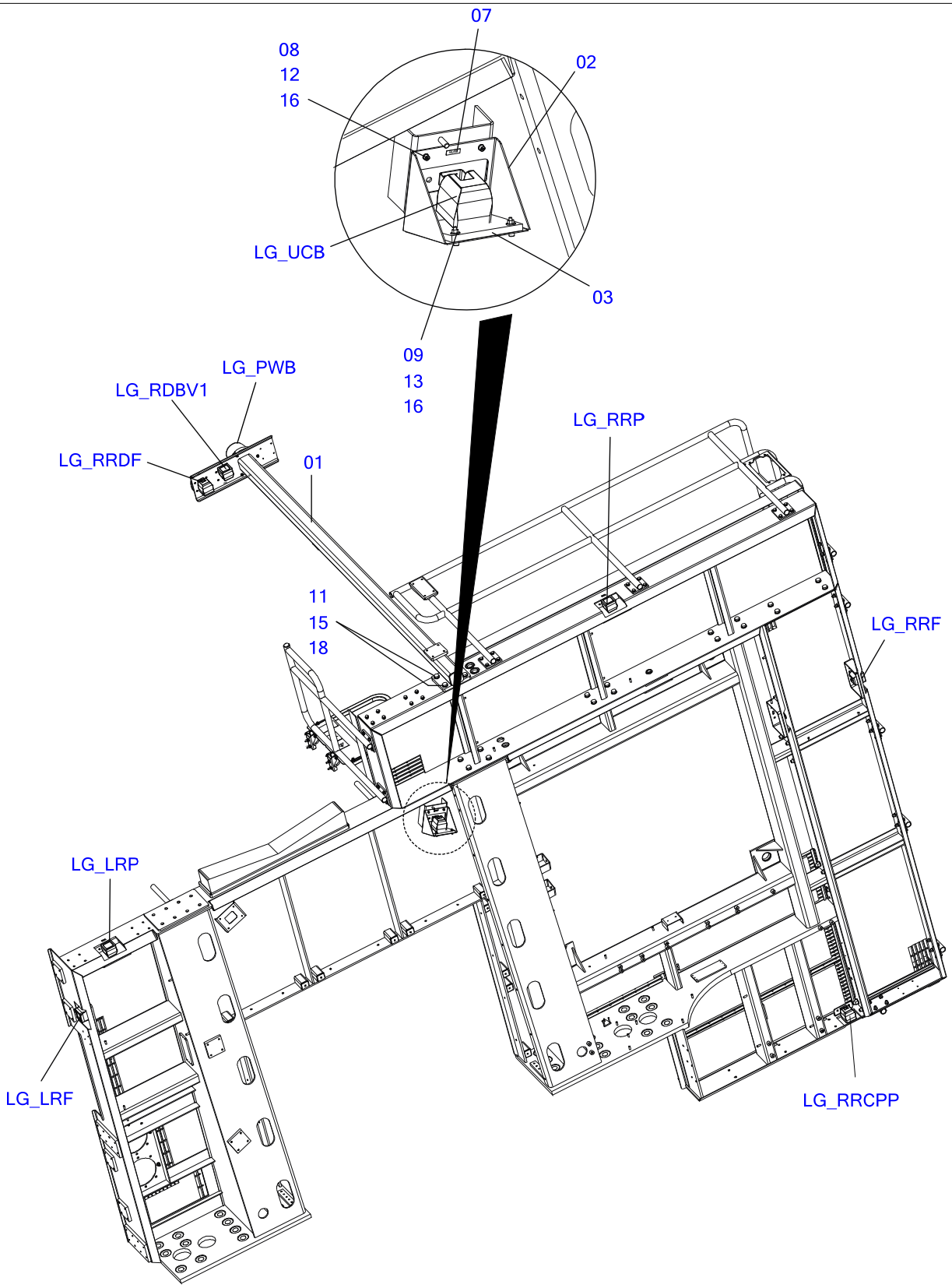
LIGHTING, REAR DECK



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FRONT AND BACK / SIDE VIEWS

LIGHTING, REAR DECK



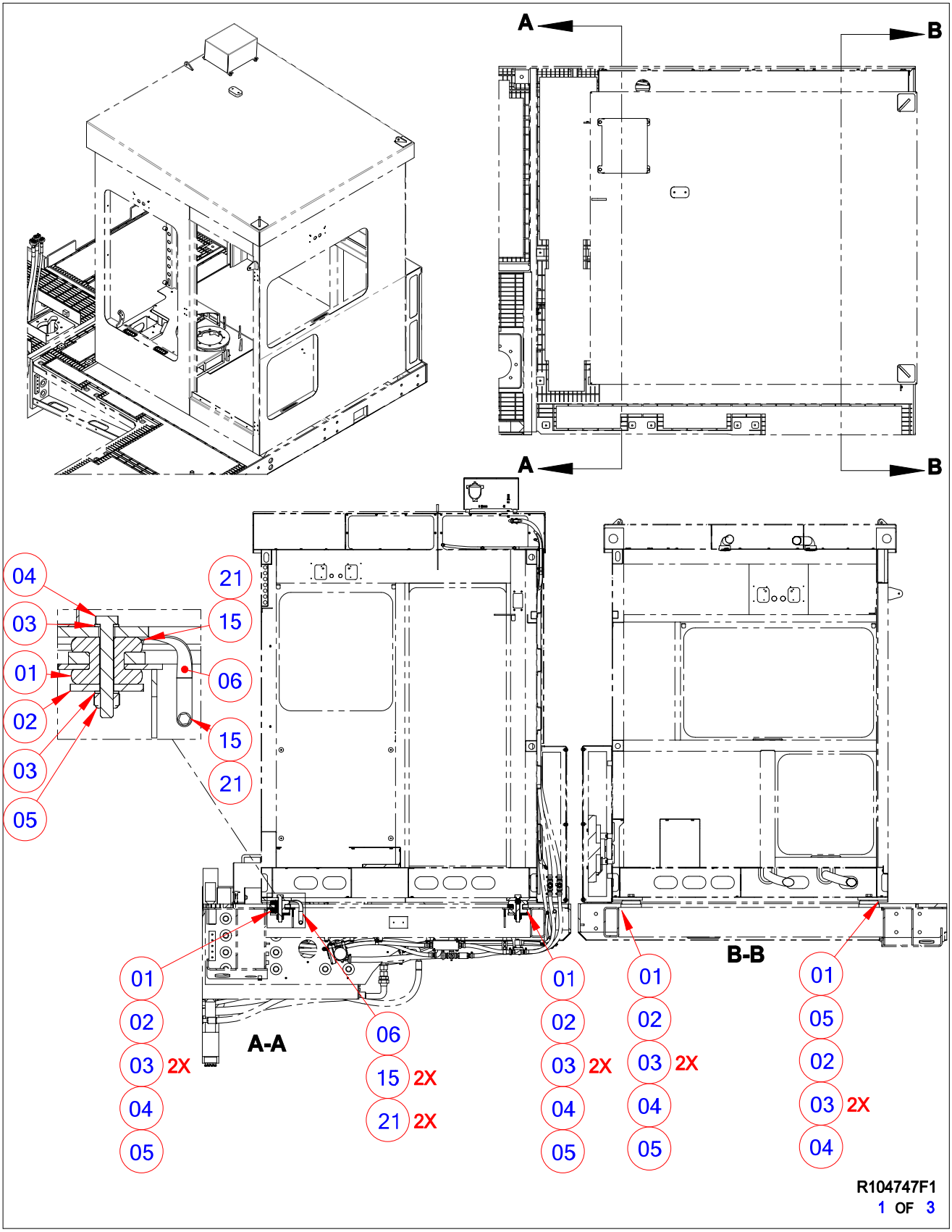
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BOTTOM VIEW

LIGHTING, REAR DECK

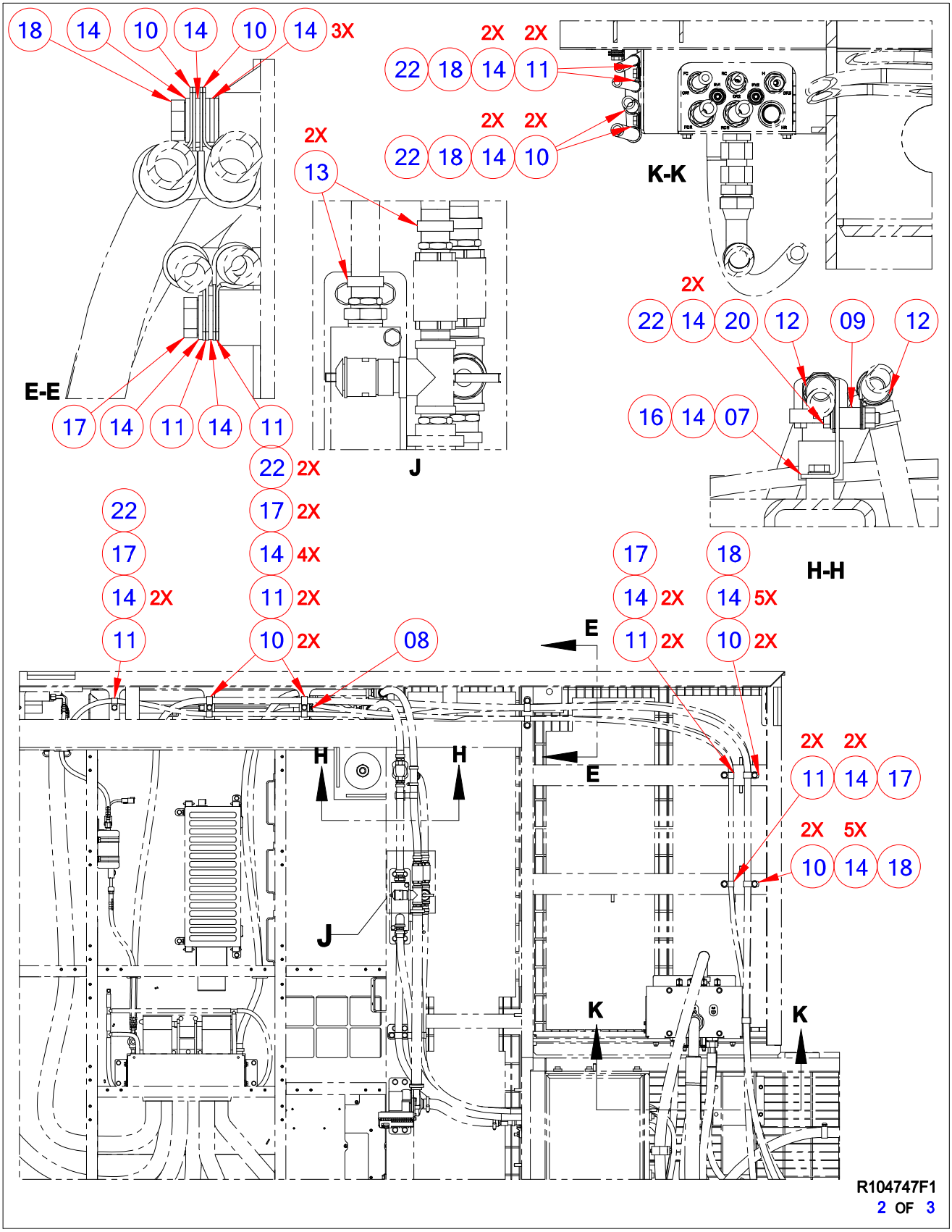
Item	Part No.	Description	Qty.
	R104383F1	LIGHTING, REAR DECK	
01	R99106D1	▪ POST, Light	1
02	R99418D1	▪ GUARD, Light	1
03	R99422D1	▪ GUARD, Clear	1
LG_PWB	R76313D1	▪ LIGHT, Amber Beacon	1
LG_UCB	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RRDM1	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RRDM2	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RRDF	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RDBV1	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RRCPP	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_LRF	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RRF	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_RRP	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
LG_LRP	R97643D1	▪ LIGHT, Flood, 2400 Lumen	1
06	R98812D97	▪ GROMMET, Push-In	4
07	R99424D1	▪ DECALS	1
08	0630M06020	▪ SCREW, Socket Head	4
09	0630M06030	▪ SCREW, Socket Head	4
10	0630M08025	▪ SCREW, Socket Head	3
11	0825M20070	▪ BOLT, Hex Hd	4
12	7612M006	▪ WASHER, Plated	8
13	R89928D5	▪ WASHER, Oversized	8
14	3612M008	▪ WASHER, Plain	6
15	3612M020	▪ WASHER, Plain	8
16	2104M006	▪ NUT, Hex	8
17	2104M008	▪ NUT, Hex	3
18	2104M020	▪ NUT, Hex	4

INSTALLATION, CAB TO REAR DECK



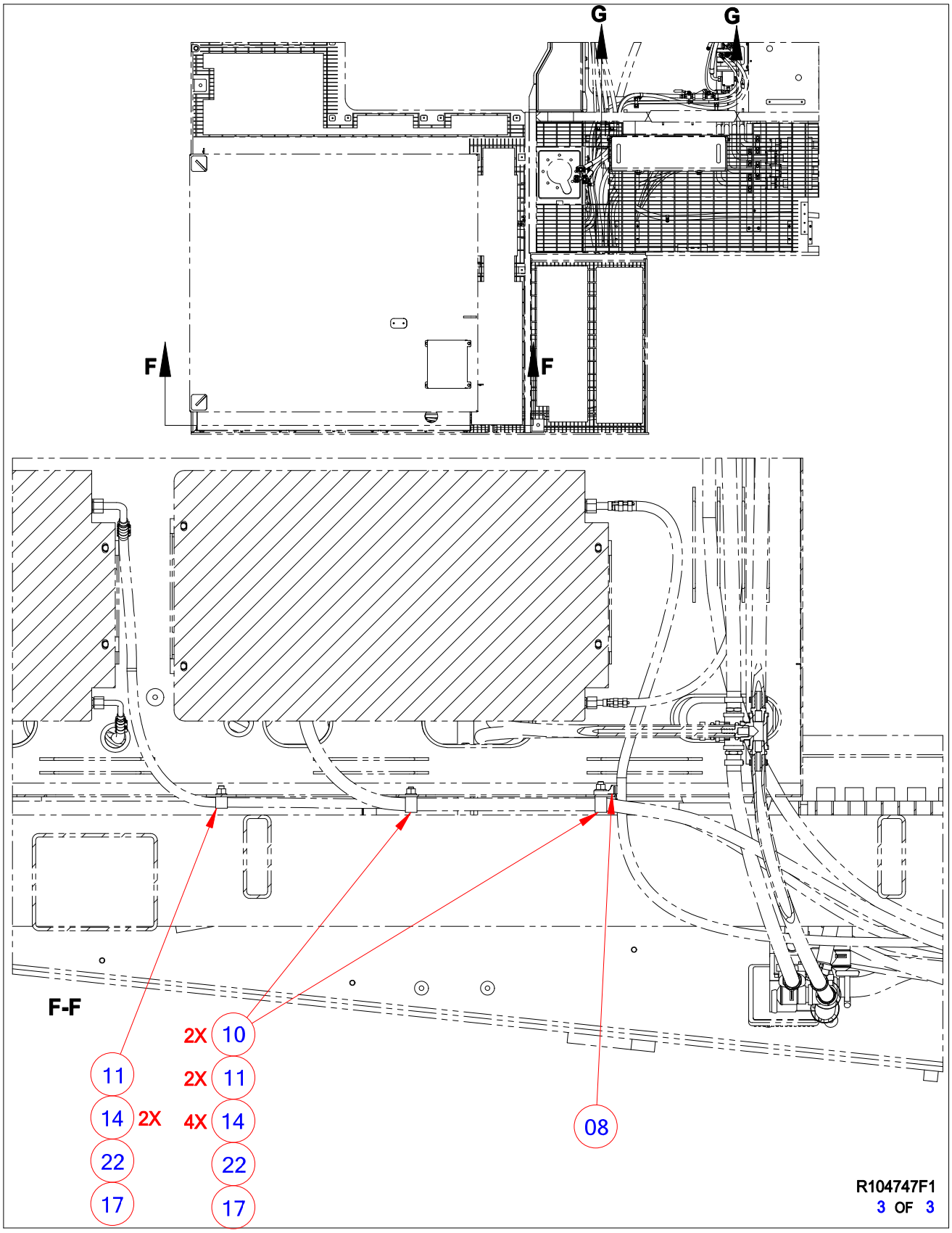
INSTALLATION, CAB TO REAR DECK

INSTALLATION, CAB TO REAR DECK



INSTALLATION, CAB TO REAR DECK

INSTALLATION, CAB TO REAR DECK



INSTALLATION, CAB TO REAR DECK

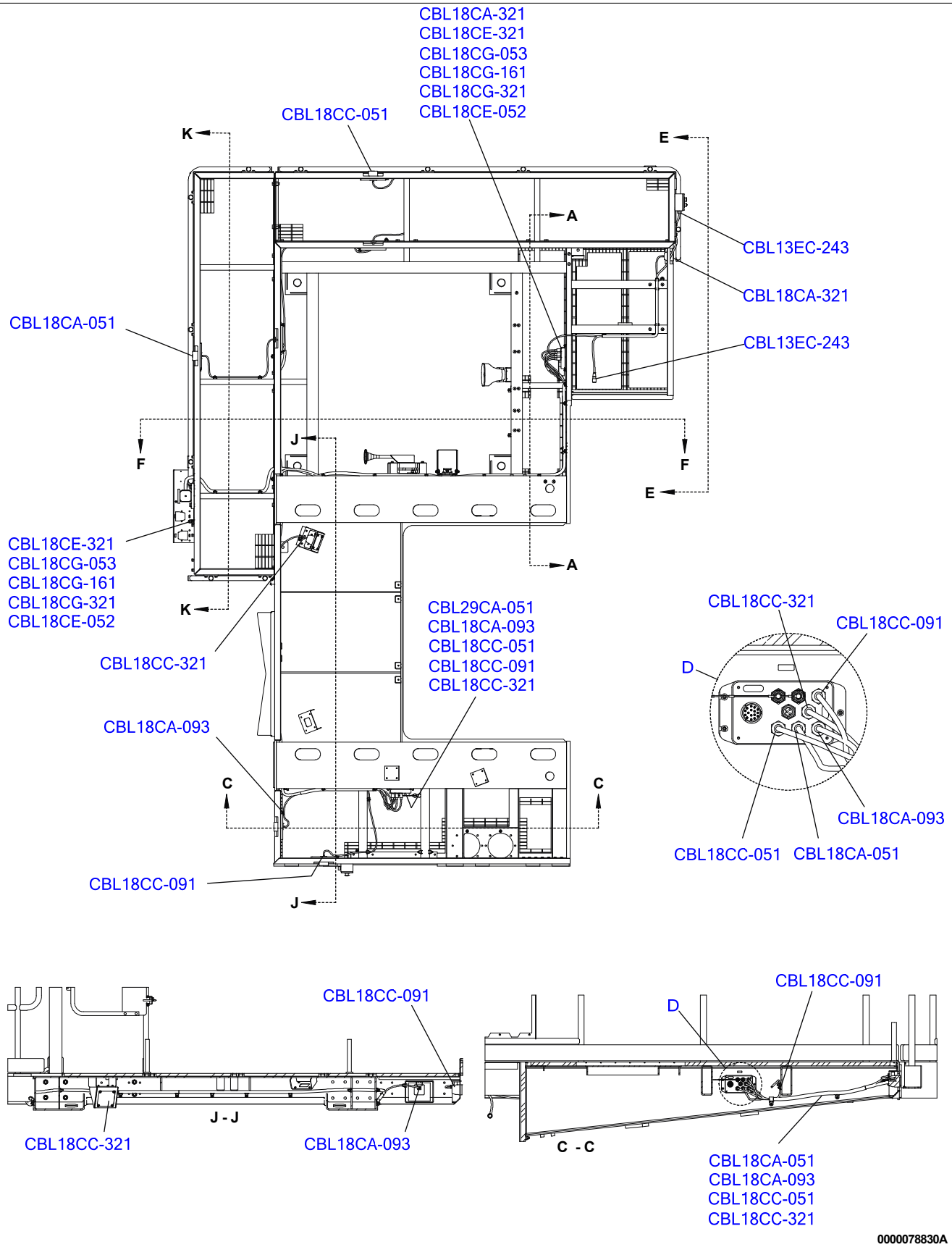
INSTALLATION, CAB TO REAR DECK

Item	Part No.	Description	Qty.
	R104747F1	INSTALLATION, CAB TO REAR DECK	
01	R92689D1	· MOUNT, Vibration Isolator - Yellow	4
02	R83015D1	· WASHER, Rebound	4
03	3648M024	· WASHER, Hardened	8
04	0825M24170	· BOLT, Hex Hd	4
05	R92442D1	· NUT, Lock	4
06	R99323D1	· GROUND STRAP, MBJ Braid	1
07	R103792D1	· BRACKET, Coolant Routing	1
08	R90641D1	· MOUNT, Cable	1
09	R103645D1	· SPACER	1
10	32Z423D22	· CLAMP, Insulated	10
11	32Z423D5	· CLAMP, Insulated	11
12	32Z423D2	· CLAMP	2
13	R92065D1	· CLAMP	2
14	3612M010	· WASHER, Plain	34
15	3612M012	· WASHER, Plain	2
16	0825M10020	· BOLT, Hex Hd	1
17	0825M10025	· BOLT, Hex Hd	5
18	0825M10030	· BOLT, Hex Hd	5
19	0825M10035	· BOLT, Hex Hd	1
20	0825M10045	· BOLT, Hex Hd	1
21	0825M12020	· BOLT, Hex Hd	2
22	2104M010	· NUT, Hex	6
23	R88249D1	· TIE, Wire (Not Shown)	10
24	R103669D2	· REFRIGERANT OIL (Not Shown)	6
25	R120495D1	· DECAL, Ground Disconnect (Not Shown)	1

CABLE ASSEMBLY, REAR DECK (Not Illustrated)

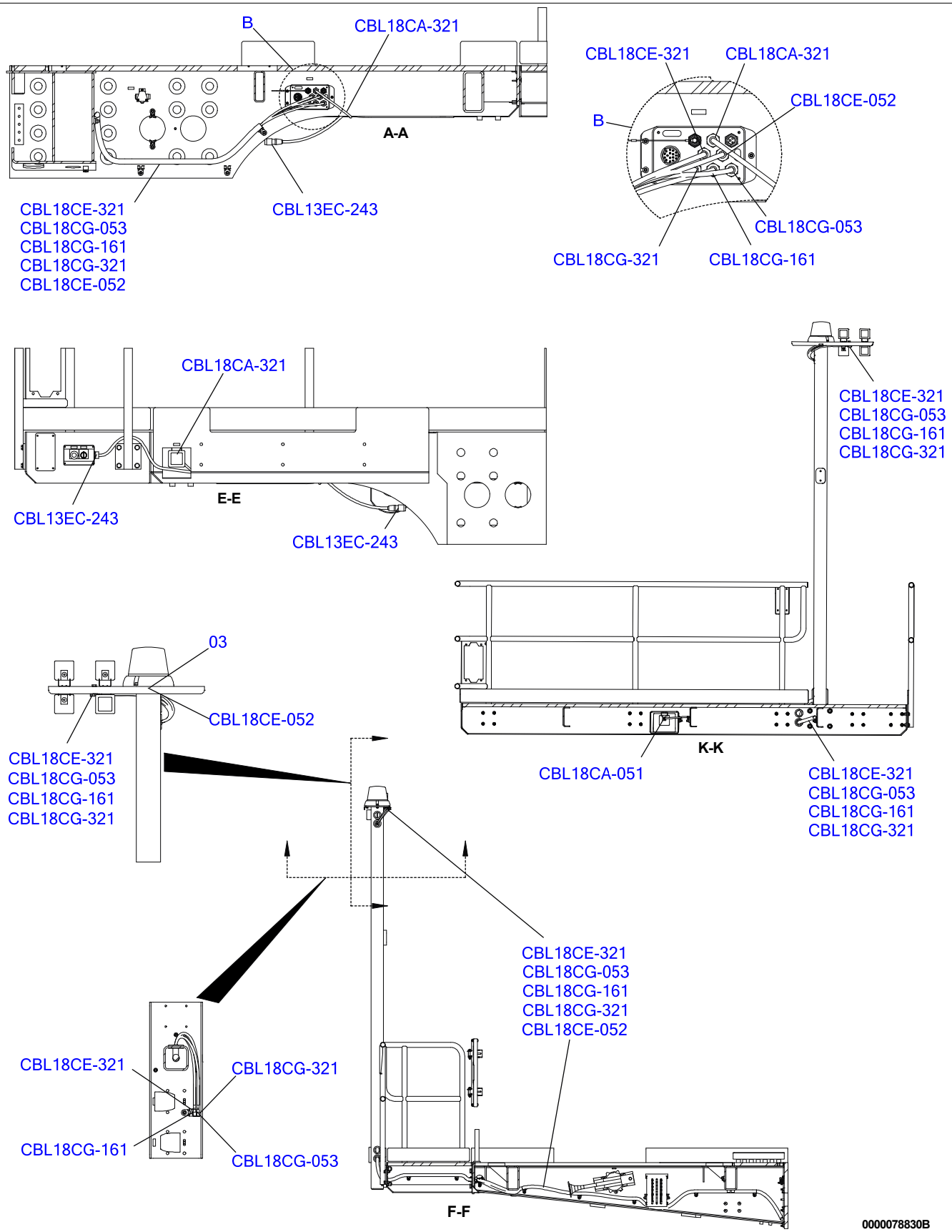
Item	Part No.	Description	Qty.	Page
	R89725F600	CABLE ASSEMBLY, REAR DECK		
01	R89725F601	▪ CABLE INSTALLATION - Rear Deck Lights	1	263
02	R89725F602	▪ CABLE INSTALLATION - Rear Deck	1	264

CABLE INSTALLATION, REAR DECK LIGHTS



BOTTOM VIEW

CABLE INSTALLATION, REAR DECK LIGHTS

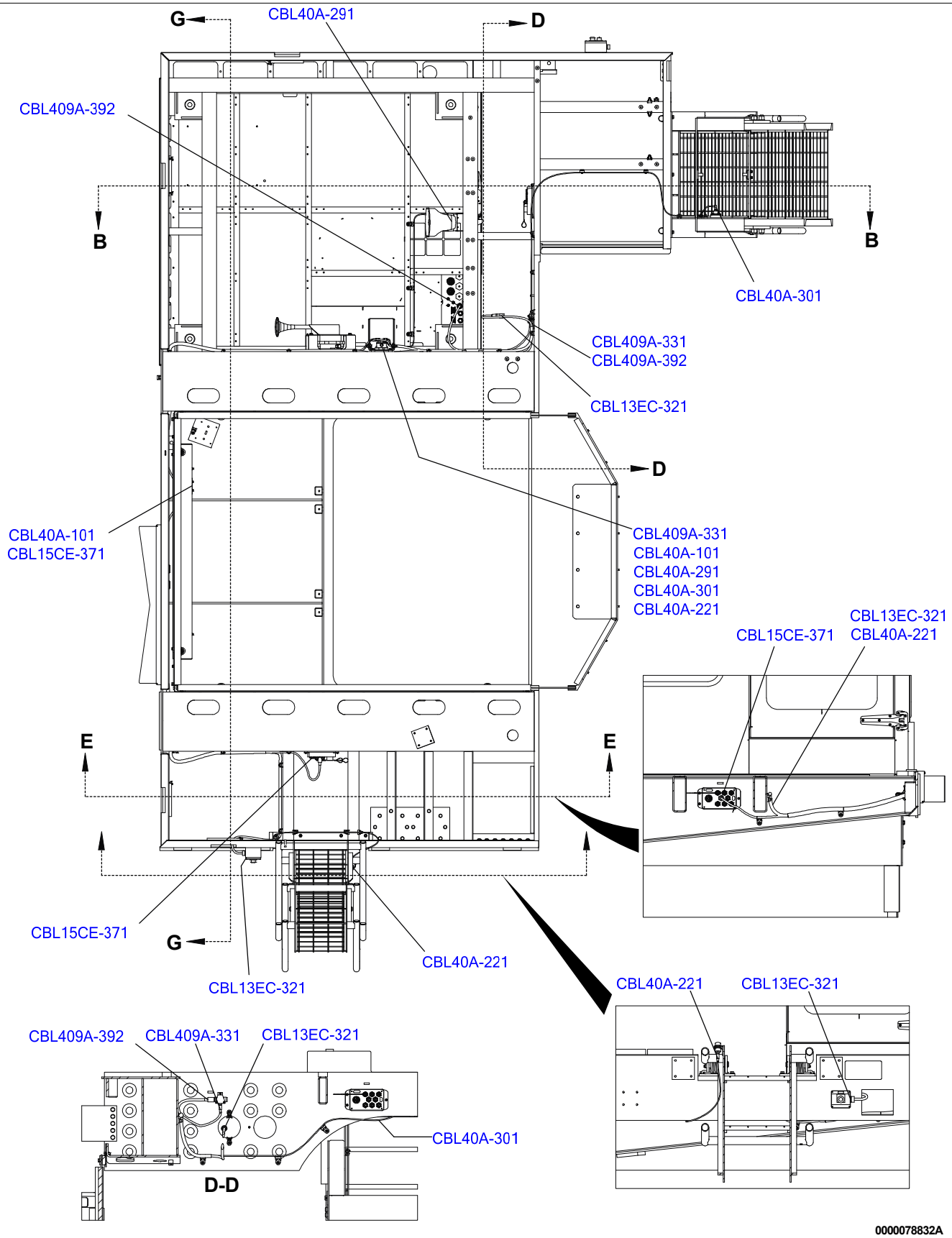


SECTION VIEWS

CABLE INSTALLATION, REAR DECK LIGHTS

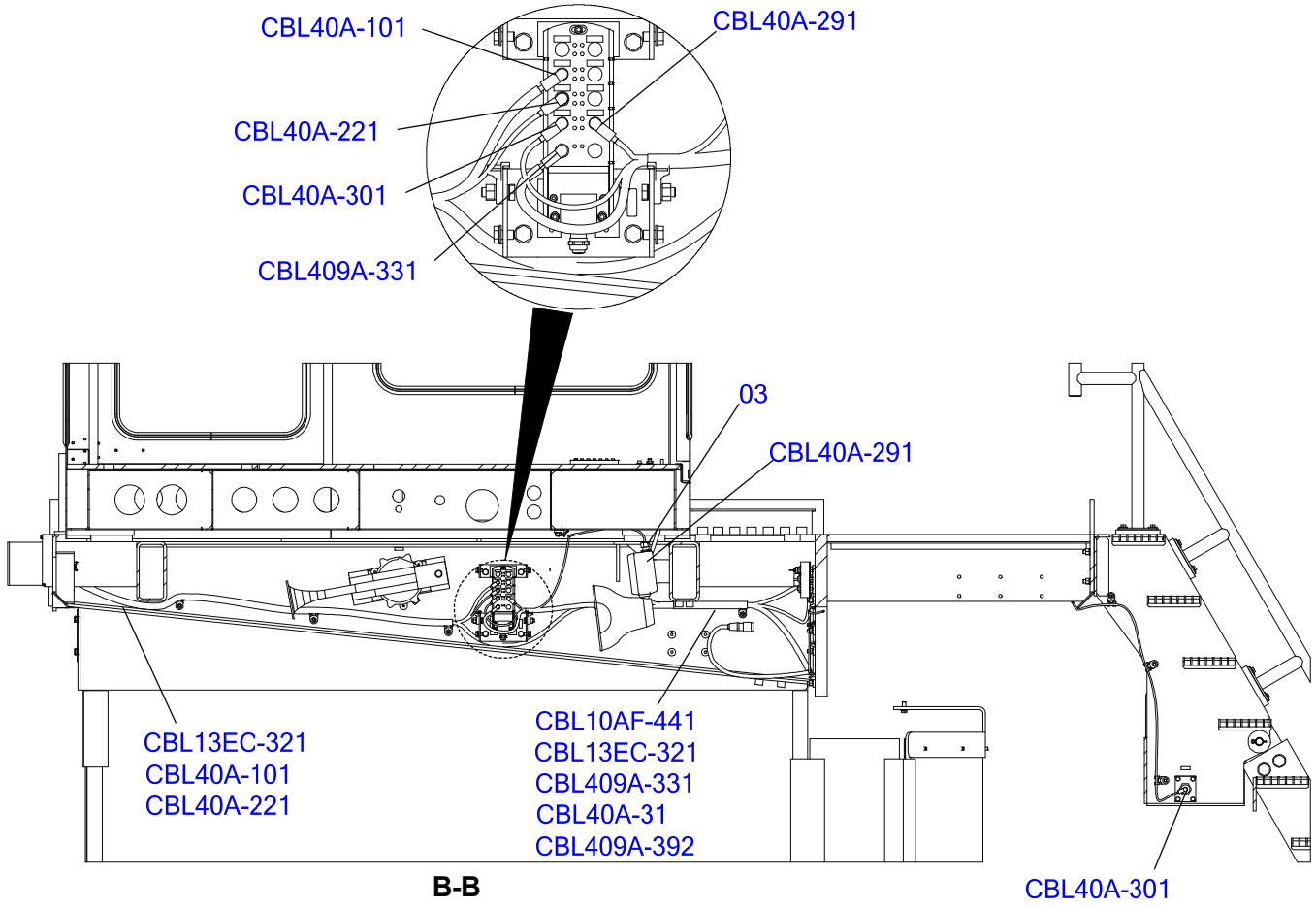
Item	Part No.	Description	Qty.
	R89725F601	CABLE INSTALLATION, REAR DECK LIGHTS	
01	R89740F601	・WIRE LIST, Rear Deck, Lights	1
CBL18CA-051	R90655T20D850	・・CABLE, 3 Pin	1
CBL18CA-093	R90655T20D170	・・CABLE, 3 Pin	1
CBL18CA-321	R90655T20D220	・・CABLE, 3 Pin	1
CBL18CC-051	R90655T20D670	・・CABLE, 3 Pin	1
CBL18CC-091	R90655T20D190	・・CABLE, 3 Pin	1
CBL18CE-321	R90655T20D870	・・CABLE, 3 Pin	1
CBL18CG-053	R90655T20D870	・・CABLE, 3 Pin	1
CBL18CG-161	R90655T20D870	・・CABLE, 3 Pin	1
CBL18CG-321	R90655T20D870	・・CABLE, 3 Pin	1
CBL18CC-321	R90655T20D380	・・CABLE, 3 Pin	1
CBL18CE-052	R90655T15D900	・・CABLE, 3 Pin	1
02	R88249D1	・TIE, Wire (Not Shown)	53
03	R111320D1	・CONNECTOR, Spring Pressure (2 Conductor)	2

CABLE INSTALLATION, REAR DECK

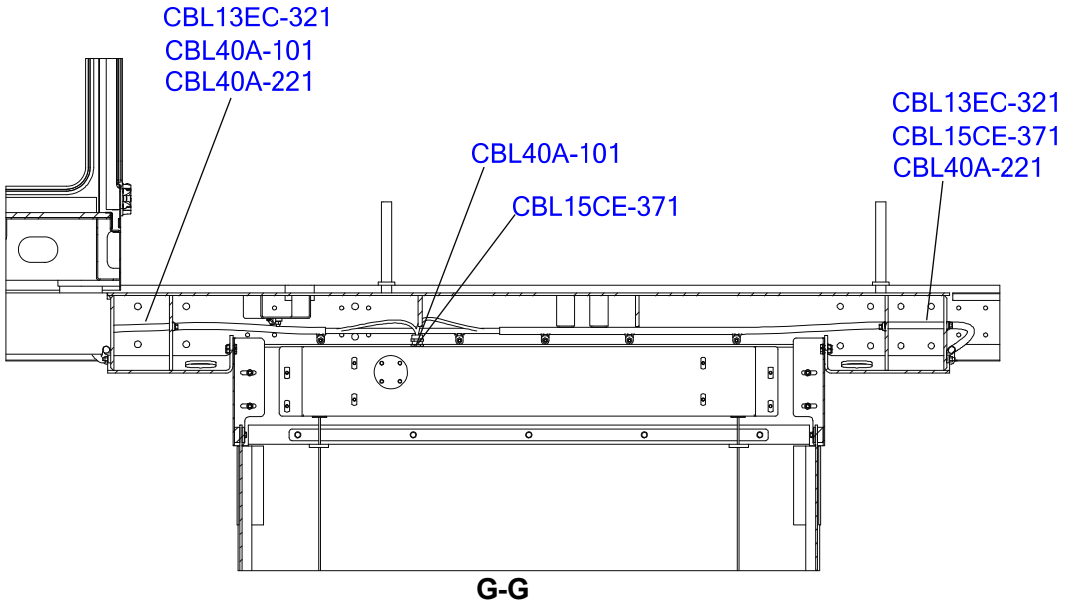


BOTTOM VIEW

CABLE INSTALLATION, REAR DECK



B-B



G-G

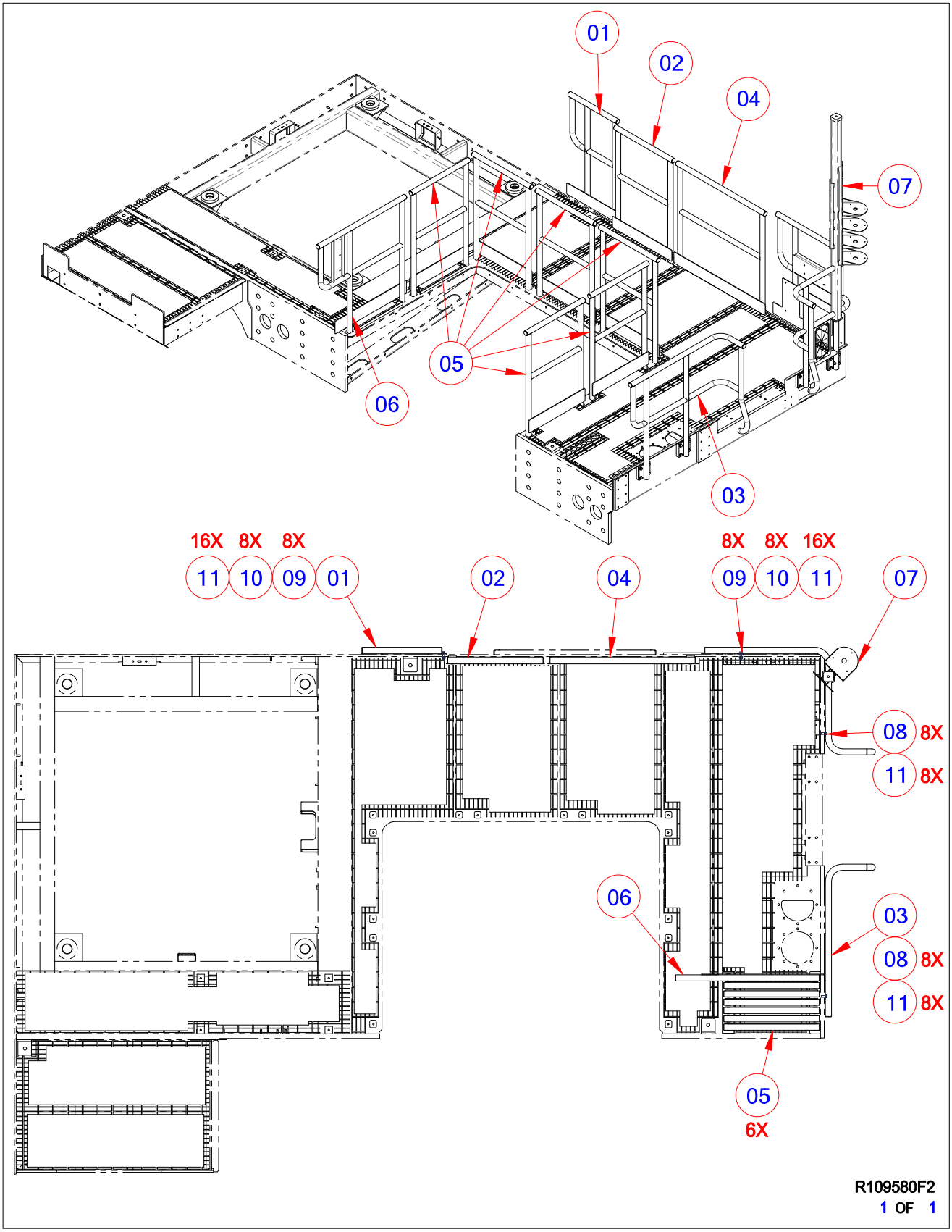
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SECTION VIEWS

CABLE INSTALLATION, REAR DECK

Item	Part No.	Description	Qty.
	R89725F602	CABLE INSTALLATION, REAR DECK	
01	R89740F602	・WIRE LIST, Rear Deck	1
CBL409A-331	R90651T13D580	・・CABLE, 5 Pin	1
CBL40A-101	R90650T17D280	・・CABLE, 4 Pin	1
CBL40A-291	R90650T17D170	・・CABLE, 4 Pin	1
CBL40A-301	R90650T12D470	・・CABLE, 4 Pin	1
CBL409A-392	R90652T10D140	・・CABLE, 5 Pin	1
CBL15CE-371	R90655T15D330	・・CABLE, 3 Pin	1
CBL40A-221	R90650T12D740	・・CABLE, 4 Pin	1
02	R88249D1	・TIE, Wire (Not Shown)	53
03	85Z24D1	・GRIP, Cord	1

HANDRAIL INSTALLATION, REAR DECK, GPS

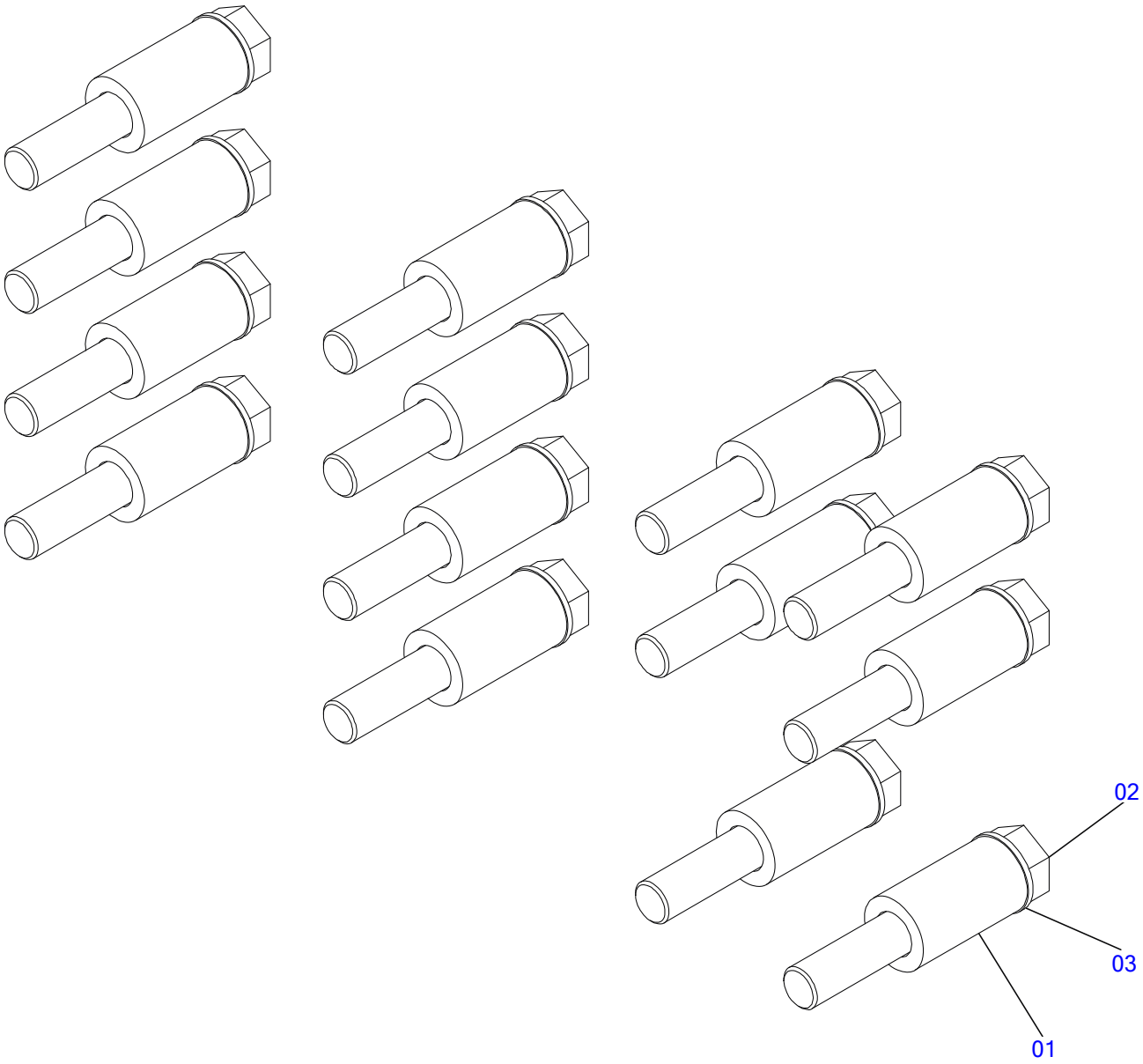


HANDRAIL INSTALLATION, REAR DECK, GPS

HANDRAIL INSTALLATION, REAR DECK, GPS

Item	Part No.	Description	Qty.
	R109580F2	HANDRAIL INSTALLATION, REAR DECK, GPS	
01	R99513D1	▪ HANDRAIL, Rear Deck	1
02	R99514D1	▪ HANDRAIL, Rear Deck, Pivot	1
03	R105252D1	▪ HANDRAIL, Rear Deck, LH	1
04	R99518D1	▪ HANDRAIL, Rear Deck, Pivot	1
05	R99519D1	▪ HANDRAIL, Rear Deck, Maintenance	6
06	R103185D1	▪ HANDRAIL, Rear Deck, Removable	1
07	R107137D1	▪ HANDRAIL, Antenna, Cab, Side	1
08	0825M12030	▪ BOLT, Hex Hd	16
09	0825M12045	▪ BOLT, Hex Hd	16
10	2104M012	▪ NUT, Hex	16
11	3648M012	▪ WASHER, Hardened	48
12	21Z772D4	▪ COMPOUND, Sealing and Locking	1

HARDWARE, REAR DECK

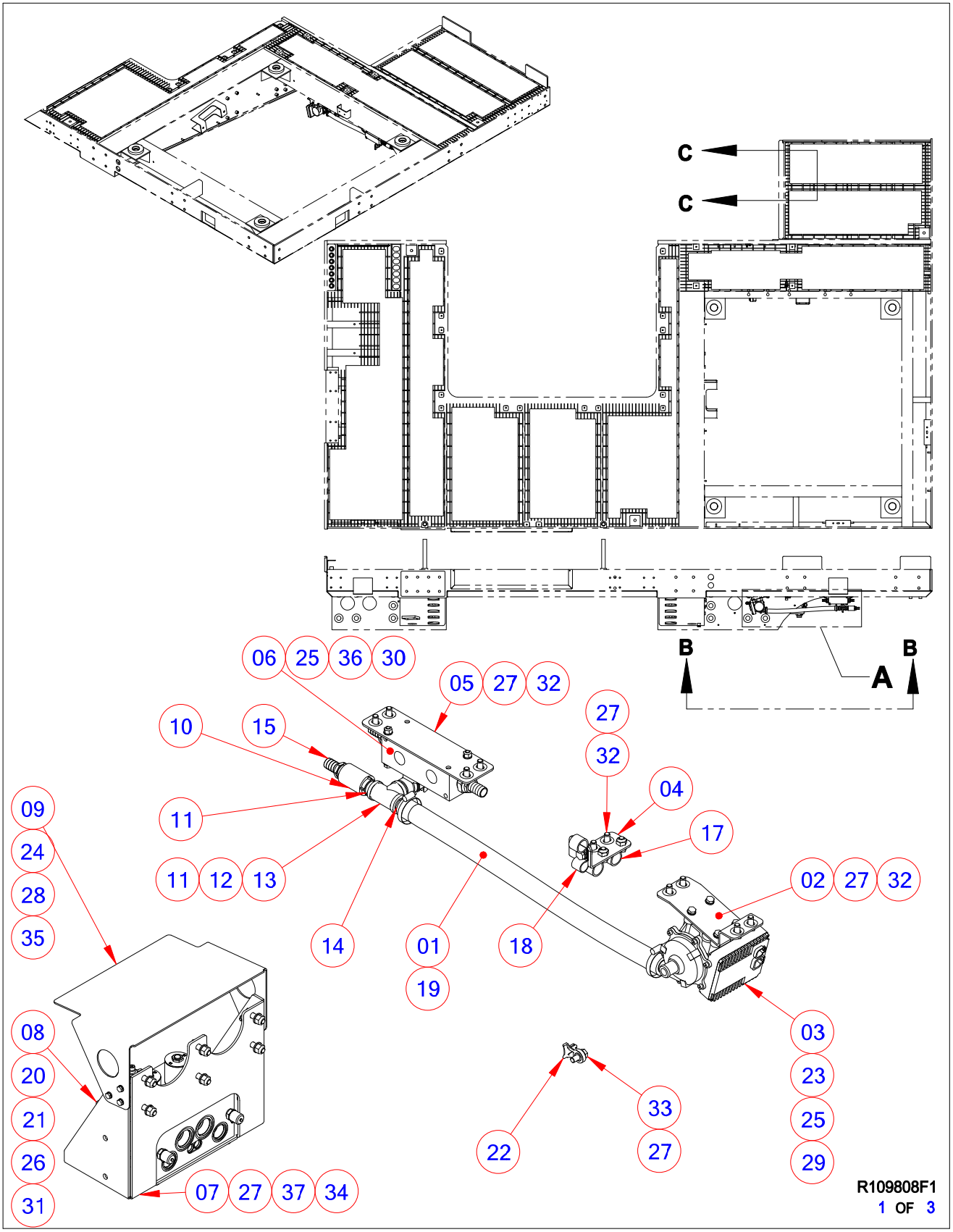


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HARDWARE, REAR DECK

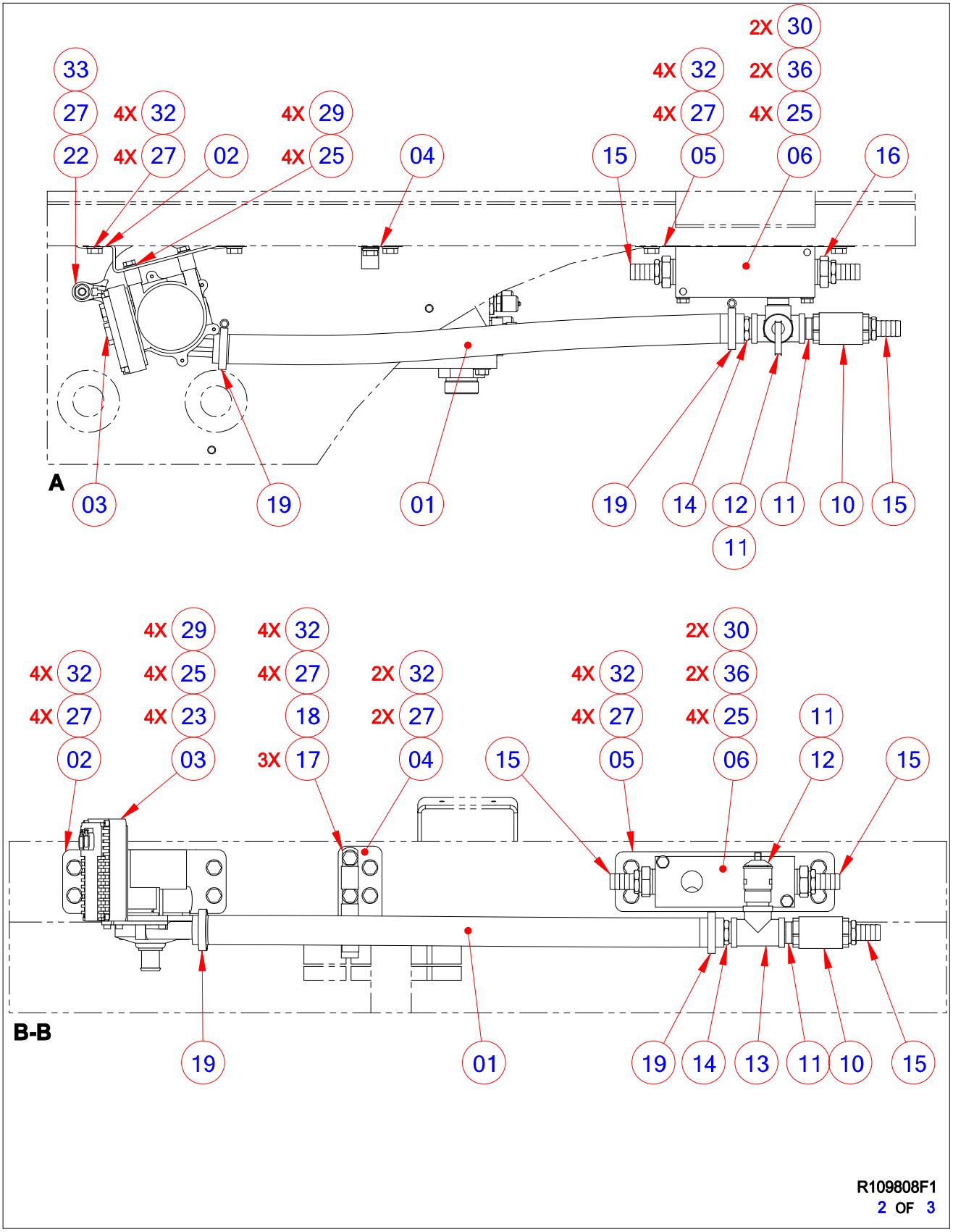
Item	Part No.	Description	Qty.
	R98491F1	HARDWARE, REAR DECK	
01	R98492D1	▪ SPACER	28
02	0825M36220	▪ BOLT, Hex Head	28
03	3648M036	▪ WASHER, Hardened	28

HVAC INSTALLATION, REAR DECK, STANDARD



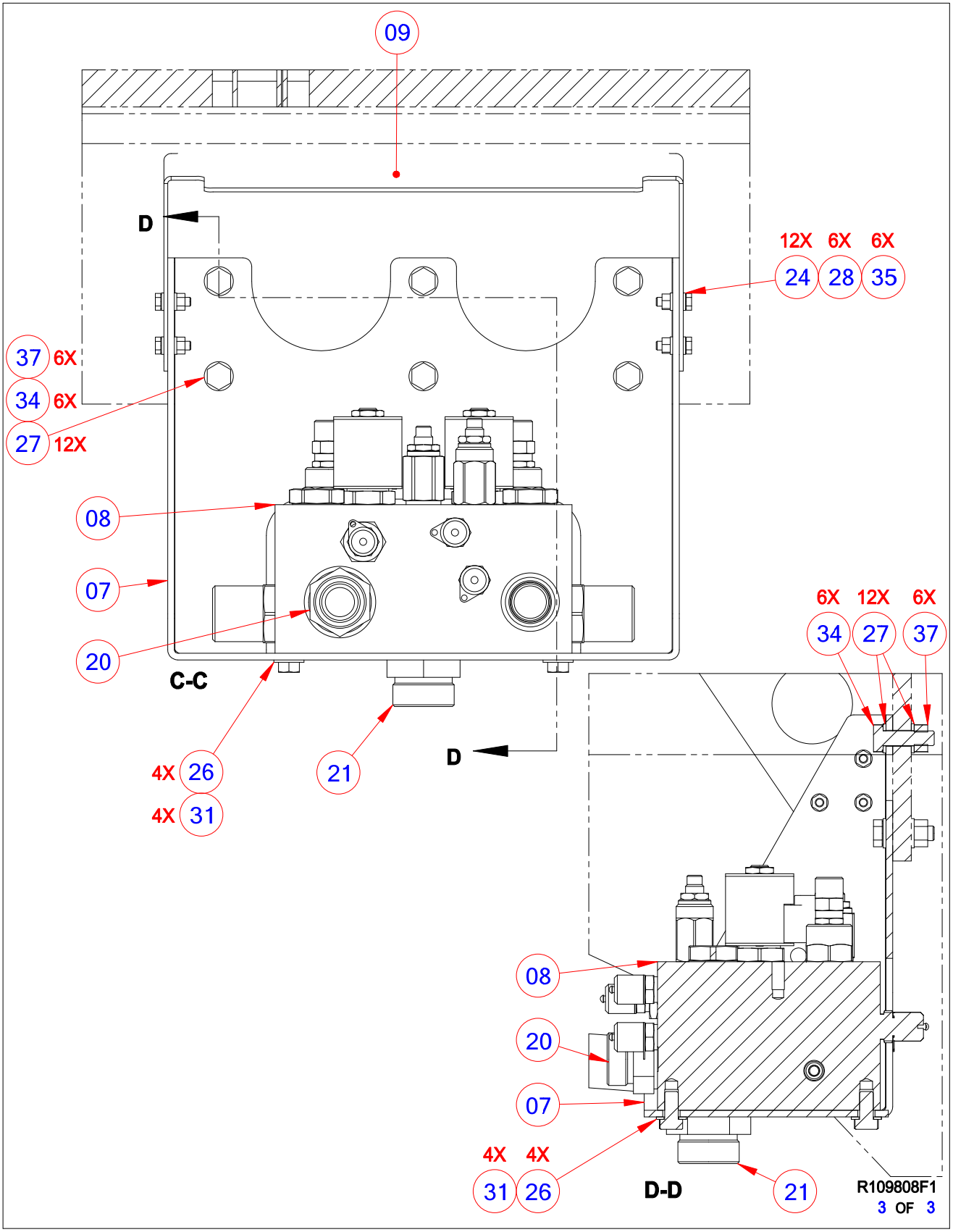
HVAC INSTALLATION, REAR DECK, STANDARD

HVAC INSTALLATION, REAR DECK, STANDARD



HVAC INSTALLATION, REAR DECK, STANDARD

HVAC INSTALLATION, REAR DECK, STANDARD



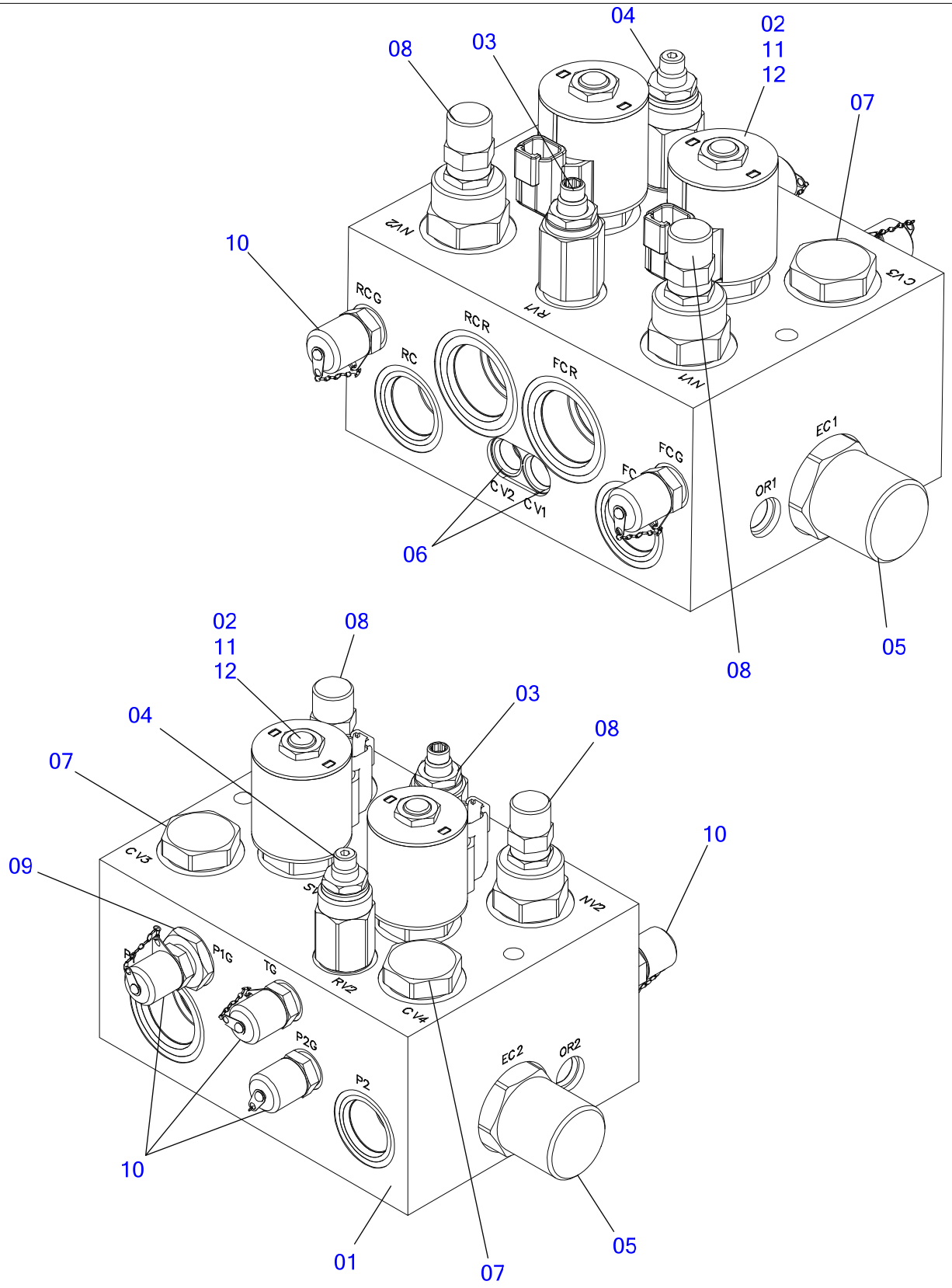
HVAC INSTALLATION, REAR DECK, STANDARD

KOMATSU

HVAC INSTALLATION, REAR DECK, STANDARD

Item	Part No.	Description	Qty.	Unit	Page
	R109808F1	HVAC INSTALLATION, REAR DECK, STANDARD			
01	R109808Y1	▪ HOSE,1.00 IN ID	1		
	508265110	▪ ▪ HOSE,1.00 IN ID	30	Inch	
02	R103870D1	▪ MOUNT, Pump	1		
03	R4267796	▪ PUMP, Water	1		
04	R103843D1	▪ BRACKET, Routing, Coolant, Weldment	1		
05	R103883D1	▪ MOUNT, Manifold	1		
06	R99621D2	▪ HEADER BLOCK, Hydraulic	1		
07	R103796D3	▪ MOUNTING PLATE, HVAC Hydraulic Manifold	1		
08	R108700D1	▪ MANIFOLD ASSEMBLY, Cab HVAC	1		268
09	R103796D2	▪ COVER, Manifold	1		
10	R98505D1	▪ VALVE, Check	1		
11	2419V134	▪ NIPPLE, Close	2		
12	R102792D1	▪ VALVE, Relief	1		
13	2425V005	▪ TEE, Pipe	1		
14	R98508D26	▪ NIPPLE, Brass	1		
15	R98508D25	▪ NIPPLE, Brass	3		
16	44Z826D12	▪ FITTING, Reducer	2		
17	32Z423D2	▪ CLAMP, Insulated	3		
18	32Z423D3	▪ CLAMP, Insulated	1		
19	R92065D2	▪ CLAMP	2		
20	R89778D12	▪ CONNECTOR	1		
21	R89778D14	▪ CONNECTOR	1		
22	R90641D1	▪ CABLE MOUNT, Single Edge	1		
23	R103645D1	▪ SPACER	4		
24	3612M006	▪ WASHER, Plain	12		
25	3612M008	▪ WASHER, Plain	8		
26	18Z694D5	▪ WASHER, Hardened	4		
27	3612M010	▪ WASHER, Plain	26		
28	0825M06020	▪ BOLT, Hex Hd	6		
29	0825M08035	▪ BOLT, Hex Hd	4		
30	0825M08080	▪ BOLT, Hex Hd	2		
31	20Q260D256	▪ SCREW, Hex Head Cap	4		
32	0825M10020	▪ BOLT, Hex Hd	13		
33	0825M10025	▪ BOLT, Hex Hd	1		
34	0825M10035	▪ BOLT, Hex Hd	6		
35	2104M006	▪ NUT, Hex	6		
36	2104M008	▪ NUT, Hex	2		
37	2104M010	▪ NUT, Hex	6		

MANIFOLD ASSEMBLY, CAB HVAC



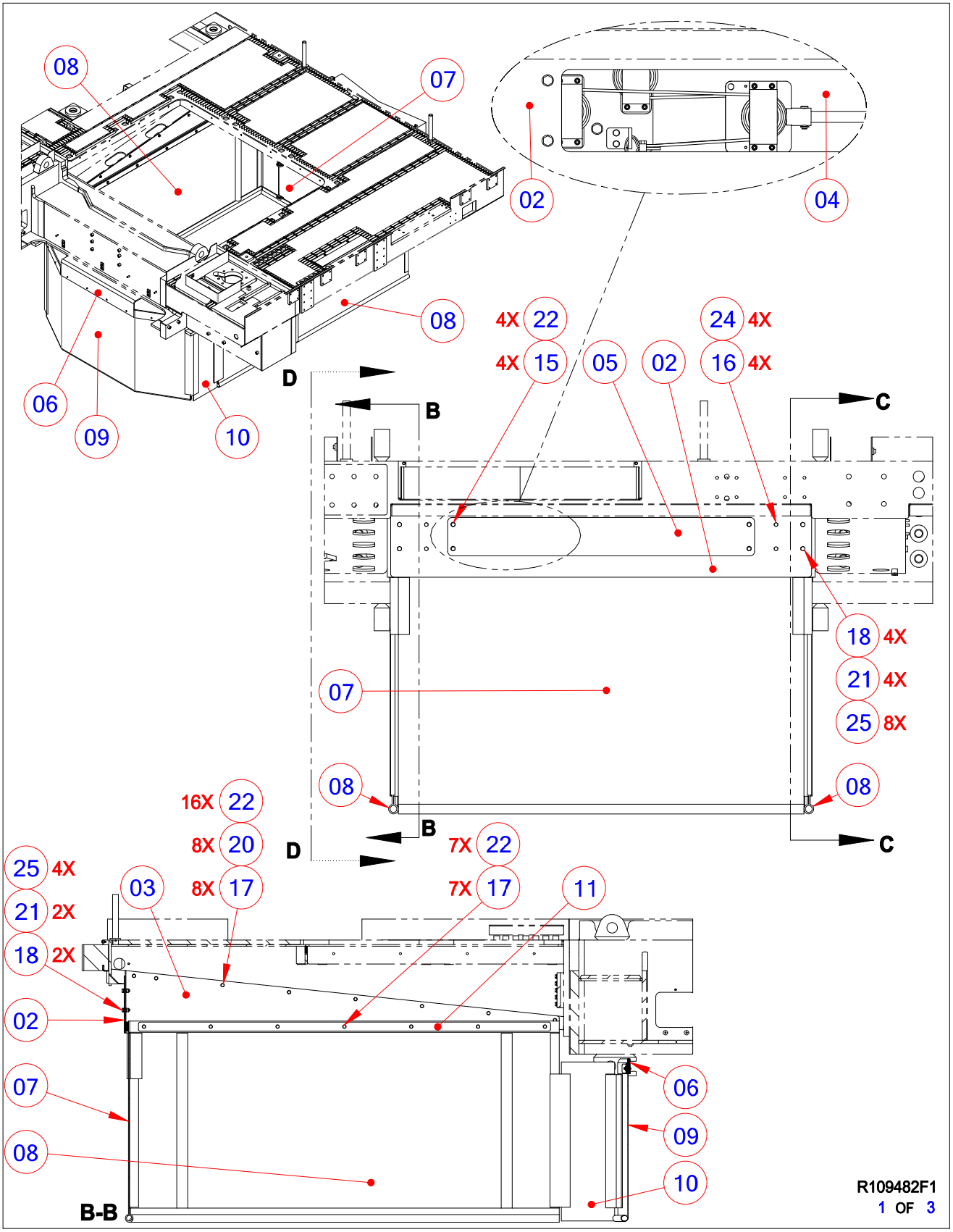
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MANIFOLD ASSEMBLY, CAB HVAC

MANIFOLD ASSEMBLY, CAB HVAC

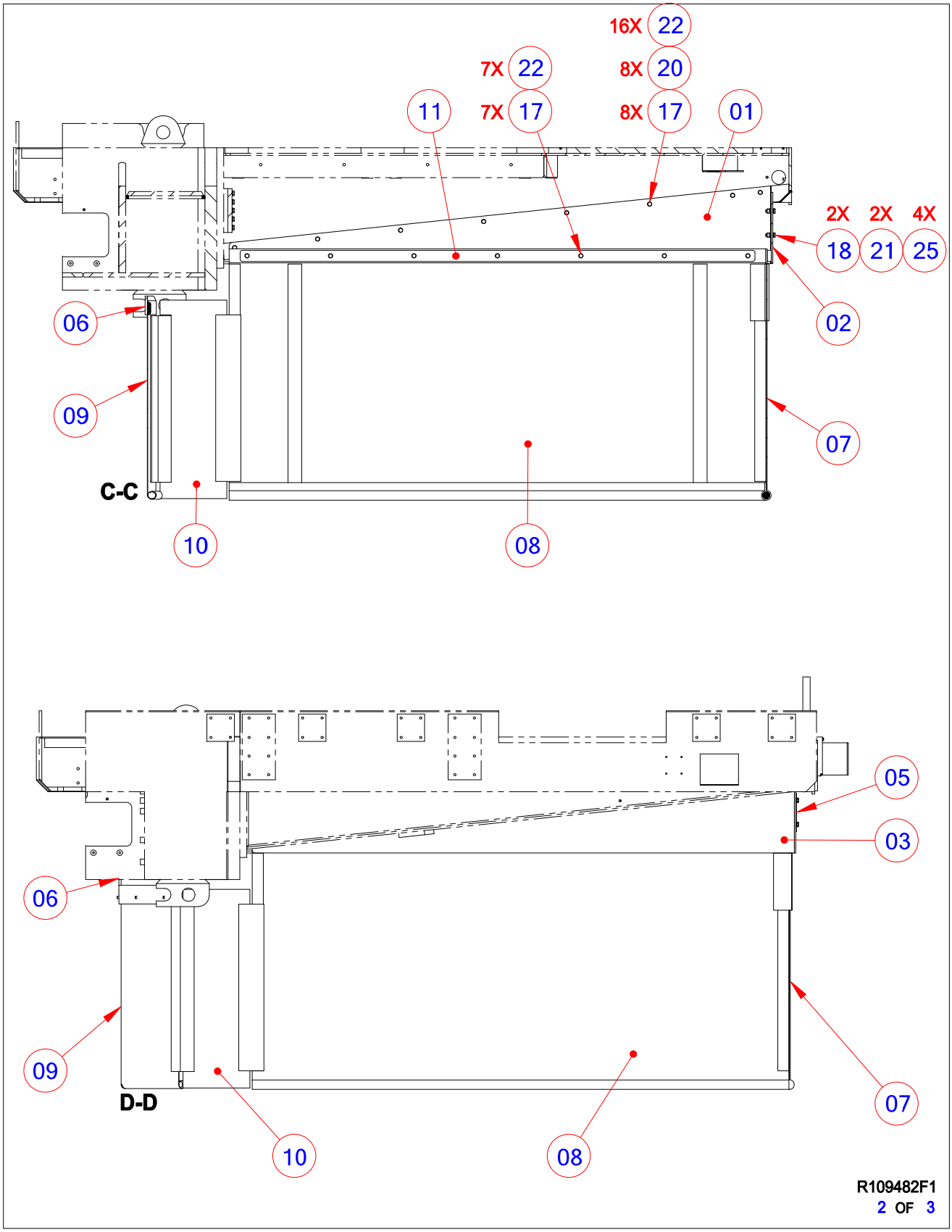
Item	Part No.	Description	Qty.
	R108700D1	MANIFOLD ASSEMBLY, CAB HVAC	
01	R108699D1	▪ MANIFOLD BLOCK	1
02	R104198D1	▪ VALVE, Cartridge, N.C.	2
03	R104196D1	▪ VALVE, Relief	1
04	R99649D3	▪ VALVE, Relief	1
05	R104200D1	▪ PRESSURE COMPENSATOR, Cartridge	2
06	R104193D2	▪ CHECK VALVE, Cartridge	2
07	R104194D1	▪ CHECK VALVE, Cartridge	2
08	R104201D1	▪ NEEDLE VALVE, Cartridge	2
09	R109849D1	▪ BUSHING	1
10	R99674D1	▪ TEST POINT	5
11	R99675D1	▪ E-COIL	2
12	R99676D2	▪ COIL NUT	2

DUST CONTAINMENT, LIFT, REAR DECK



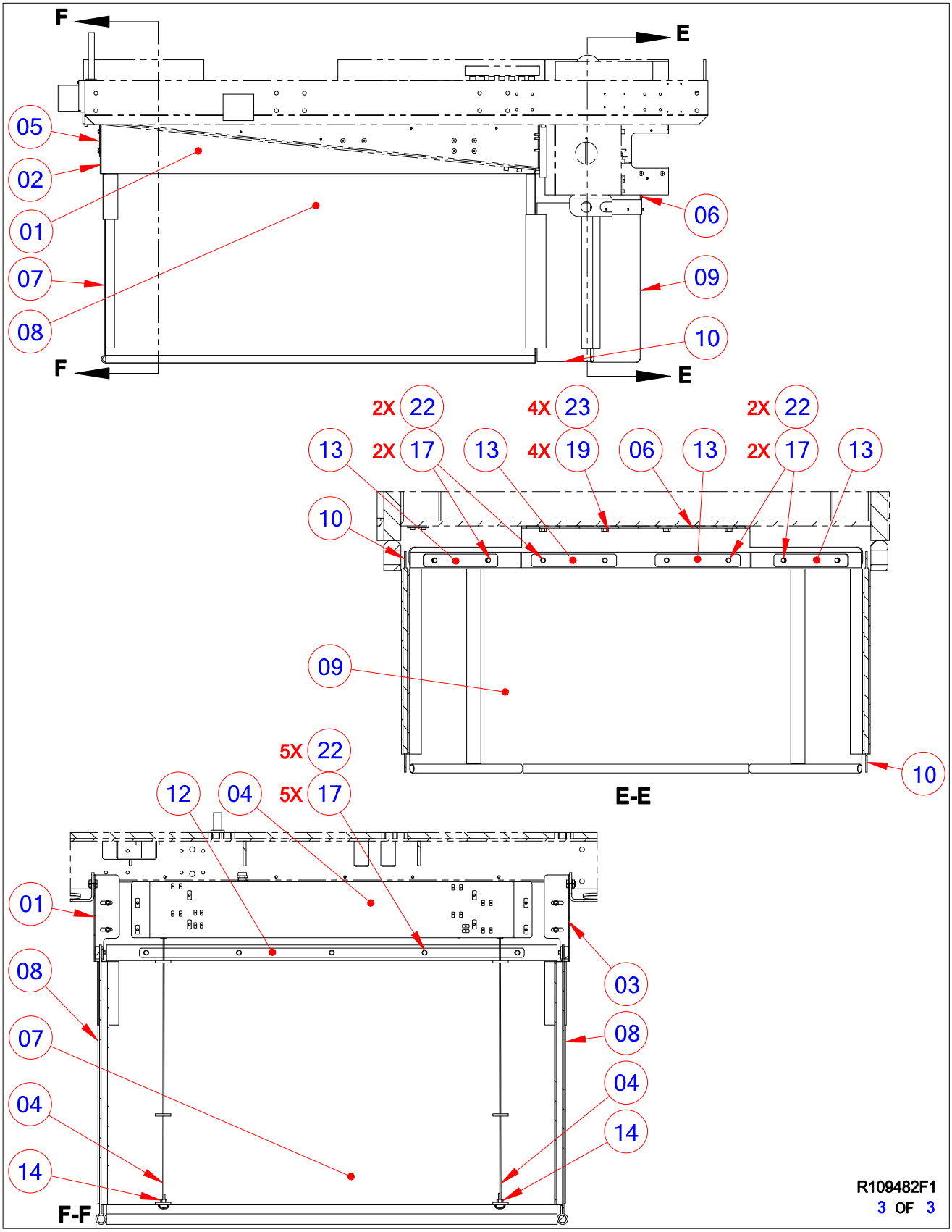
DUST CONTAINMENT, LIFT, REAR DECK

DUST CONTAINMENT, LIFT, REAR DECK



DUST CONTAINMENT, LIFT, REAR DECK

DUST CONTAINMENT, LIFT, REAR DECK



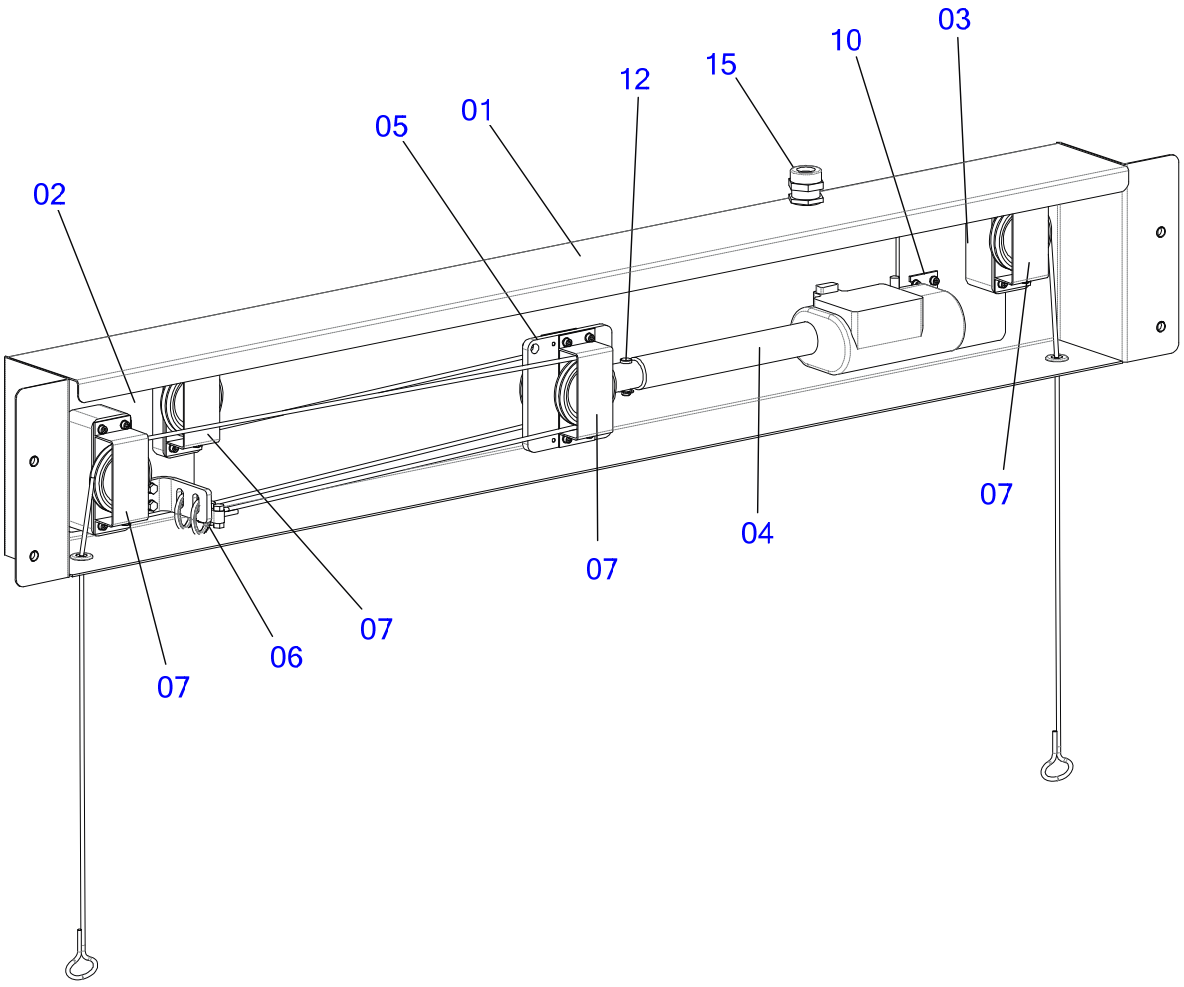
DUST CONTAINMENT, LIFT, REAR DECK

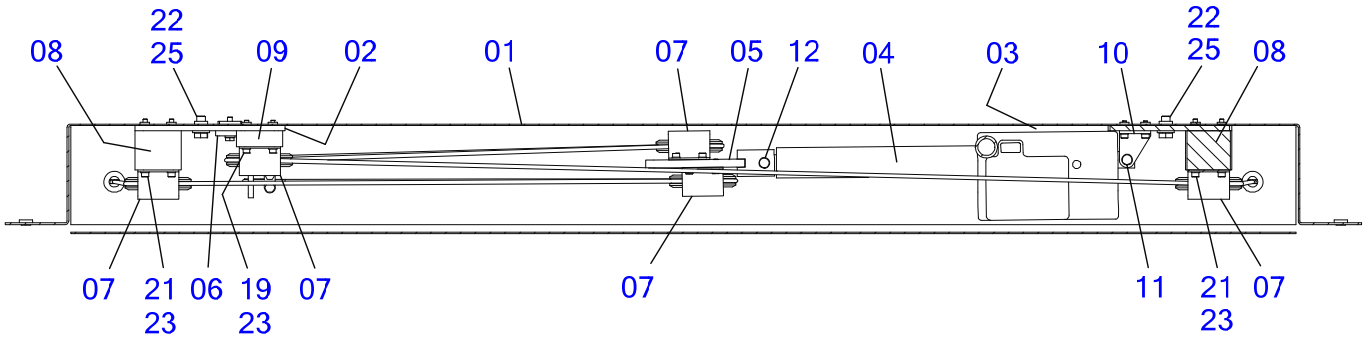
KOMATSU

DUST CONTAINMENT, LIFT, REAR DECK

Item	Part No.	Description	Qty.	Page
	R109482F1	DUST CONTAINMENT, LIFT, REAR DECK		
01	R98758D1	▪ MOUNT, Dust Containment, RH	1	
02	R98795D1	▪ MOUNT, Dust Containment, Rear	1	
03	R98796D1	▪ MOUNT, Dust Containment, LH	1	
04	R109483F1	▪ LIFT, Dust Containment, Door	1	270
05	R98755D1	▪ COVER, Access	1	
06	R104059D1	▪ BRACKET, Front, Curtain	1	
07	R98727D1	▪ DUST CURTAIN, Door	1	272
08	R98728D1	▪ DUST CURTAIN, Side	2	273
09	R98729D1	▪ DUST CURTAIN, Front	1	274
10	R104060D1	▪ EXTENSION, Dust Curtain	2	
11	R98633D1	▪ CURTAIN, Mount, Side	2	
12	R98759D1	▪ PLATE, Dust Containment	1	
13	R98767D4	▪ PLATE, Dust Curtain	4	
14	R109101D1	▪ ROPE CLAMP, w/Thimble	2	
15	0825M10016	▪ BOLT, Hex Hd	4	
16	0825M10020	▪ BOLT, Hex Hd	4	
17	0825M10030	▪ BOLT, Hex Hd	43	
18	0825M12035	▪ BOLT, Hex Hd	4	
19	0825M16030	▪ BOLT, Hex Hd	4	
20	2104M010	▪ NUT, Hex	16	
21	2104M012	▪ NUT, Hex	4	
22	3648M010	▪ WASHER, Hardened	63	
23	3648M016	▪ WASHER, Hardened	4	
24	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4	
25	R82264D21	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	8	

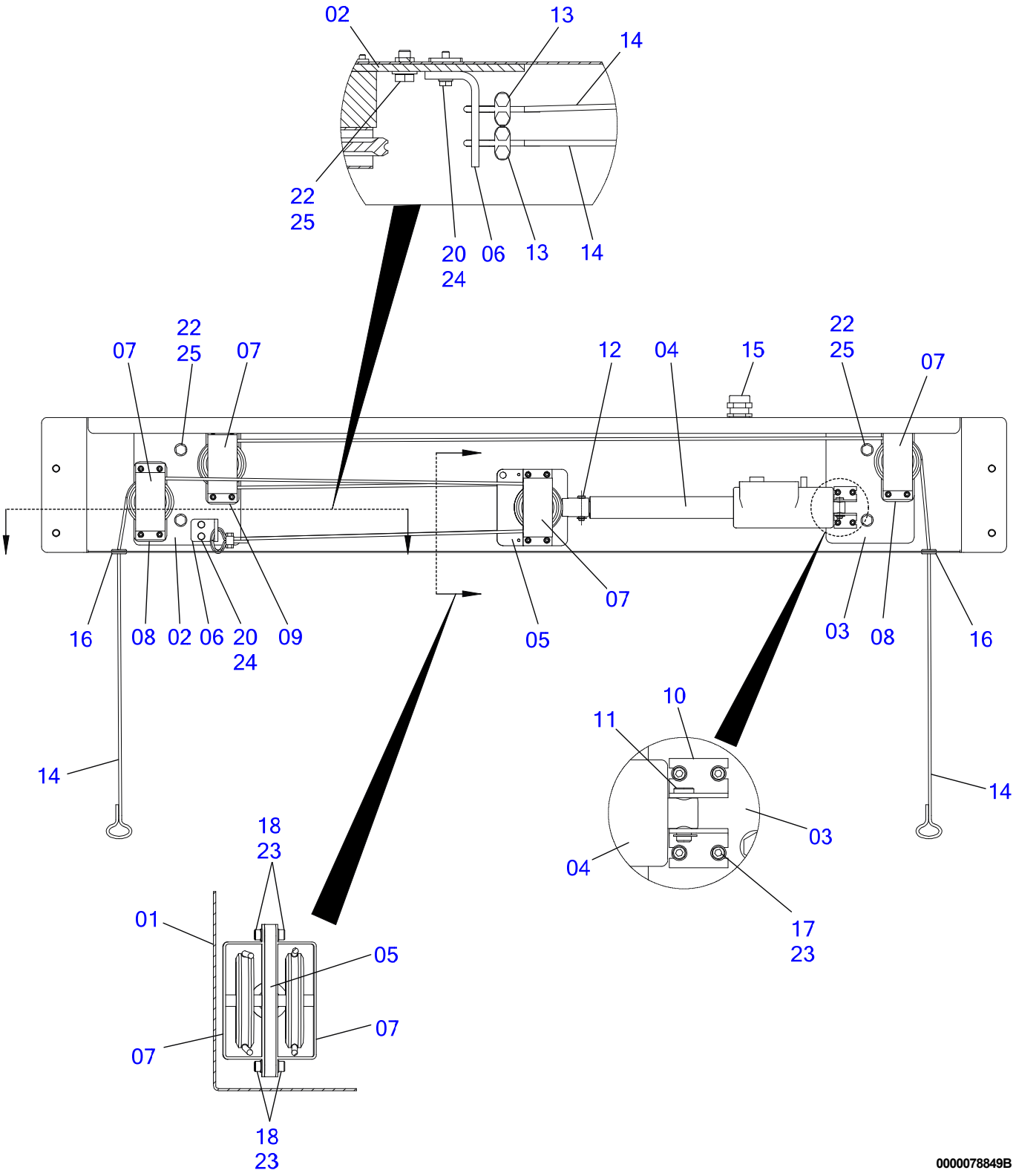
LIFT, DUST CONTAINMENT, DOOR





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LIFT, DUST CONTAINMENT, DOOR

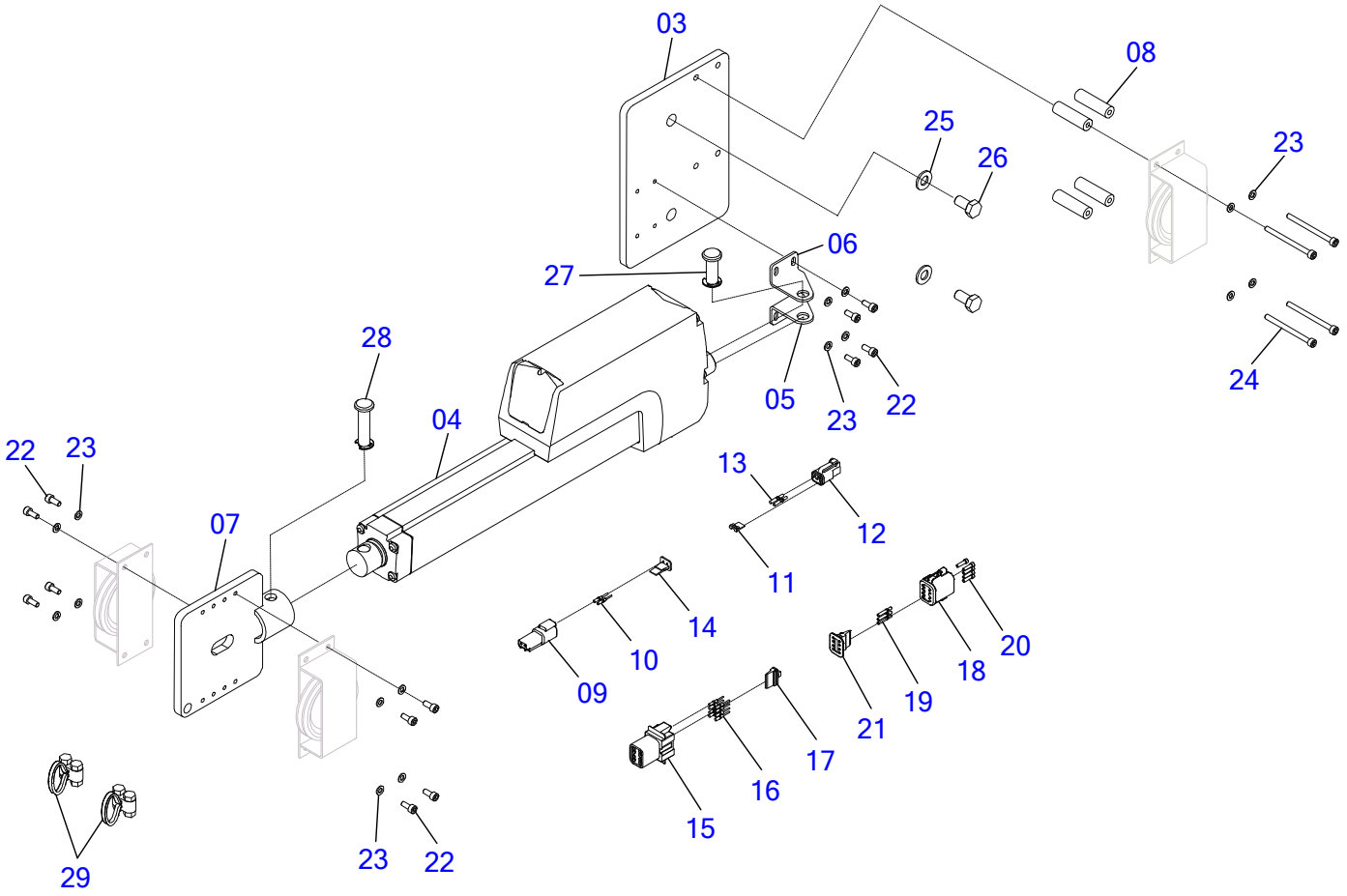


SECTION VIEW

LIFT, DUST CONTAINMENT, DOOR

Item	Part No.	Description	Qty.
	R109483F1	LIFT, DUST CONTAINMENT, DOOR	
01	R109484D1	▪ BOX, Dust Door	1
02	R110700D1	▪ BASE PLATE, Pulley System	1
03	R110700D2	▪ BASE PLATE, Pulley System	1
		NOTE: The ACTUATOR MOTOR R98929D1 has been obsoleted. Use Kit R9015211 the first time it needs to be replaced to install new motor and mounting components.	**271**
	R98929D1	▪ ACTUATOR MOTOR, Dust Curtain	1
05	R109088D1	▪ BRACKET, Pulley, Dual	1
06	R98634D1	▪ BRACKET, Wire Rope	1
07	R108881D1	▪ PULLEY	5
08	R109087D1	▪ SPACER, Pulley	2
09	R109087D2	▪ SPACER, Pulley	1
10	R98975D1	▪ BRACKET, Pivot	1
11	R98868D2	▪ PIN, Clevis	1
12	R98868D3	▪ PIN, Clevis	1
13	R109101D1	▪ ROPE CLAMP, w/Thimble	2
14	R109223D1	▪ WIRE ROPE	25
15	R91891D1	▪ GRIP, Cord	1
16	R98814D48	▪ GROMMET, Push-In	2
17	0830M05016	▪ SCREW, Socket Head	4
18	0830M05012	▪ SCREW, Socket Head	8
19	0830M05035	▪ SCREW, Socket Head	4
20	0825M06025	▪ BOLT, Hex Hd	2
21	0830M05065	▪ SCREW, Socket Head	8
22	0825M10020	▪ BOLT, Hex Hd	4
23	3612M005	▪ WASHER, Plain	24
24	3612M006	▪ WASHER, Plain	2
25	3648M010	▪ WASHER, Hardened	4

REPLACEMENT KIT, DUST CURTAIN ACTUATOR

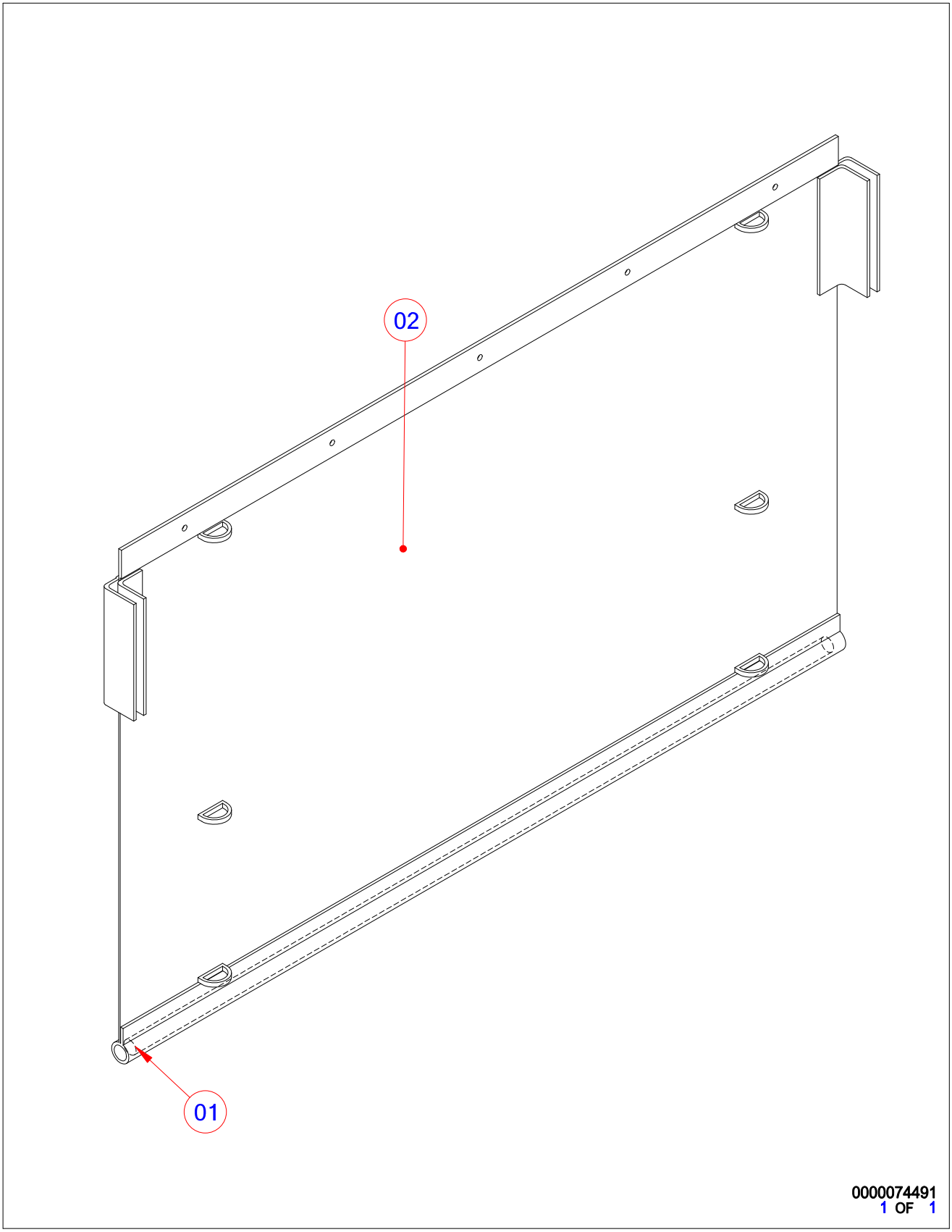


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REPLACEMENT KIT, DUST CURTAIN ACTUATOR

Item	Part No.	Description	Qty.	Unit
	R9015211	REPLACEMENT KIT, DUST CURTAIN ACTUATOR	1	
01	R9015211Y1	· SHRINK TUBING, Clear (Not Shown)	1	Each
02	R9015211Y2	· SHRINK TUBING, Clear (Not Shown)	1	Each
03	R9015213	· PLATE	1	Each
04	R9015212	· ACTUATOR, Dust Curtain	1	Each
05	R9015214	· BRACKET, Actuator - Left	1	Each
06	R9015215	· BRACKET, Actuator - Right	1	Each
07	R9015216	· BRACKET, Dual Pulley	1	Each
08	R9005161D45	· SPACER	4	Each
09	R84897D1	· CONNECTOR, Receptacle, 2-Pin	1	Each
10	R84897D7	· CONTACT PIN, Receptacle	2	Each
11	R84897D4	· WEDGE LOCK, Plug, 2-Pin	1	Each
12	R84897D2	· CONNECTOR, Plug, 2-Pin	1	Each
13	R84897D8	· CONTACT PLUG, Socket	2	Each
14	R84897D3	· WEDGE LOCK, Receptacle, 2-Pin	1	Each
15	R99502D1	· CONNECTOR, Rceptacle, A Key	1	Each
16	R84897D5	· CONTACT PIN, Receptacle	8	Each
17	R99502D3	· RECEPTACLE, Locking Wedge, 8 Pin	1	Each
18	R99502D2	· CONNECTOR, Plug, 8-Pin	1	Each
19	R84897D6	· CONTACT PLUG, Socket	3	Each
20	R90727D7	· PLUG, Sealing	5	Each
21	R99502D4	· WEDGE LOCK, Plug, 8-Pin	1	Each
22	0830M05012	· SCREW, Socket Hd	12	Each
23	3612M005	· WASHER, Plain	16	Each
24	0830M05065	· SCREW, Socket Hd	4	Each
25	3648M010	· WASHER, Hardened	2	Each
26	0825M10020	· BOLT, Hex Hd	2	Each
27	R9015219	· CLEVIS PIN	1	Each
28	R9015220	· CLEVIS PIN	1	Each
29	R109101D1	· CLAMP, Rope	2	Each

DUST CURTAIN, DOOR

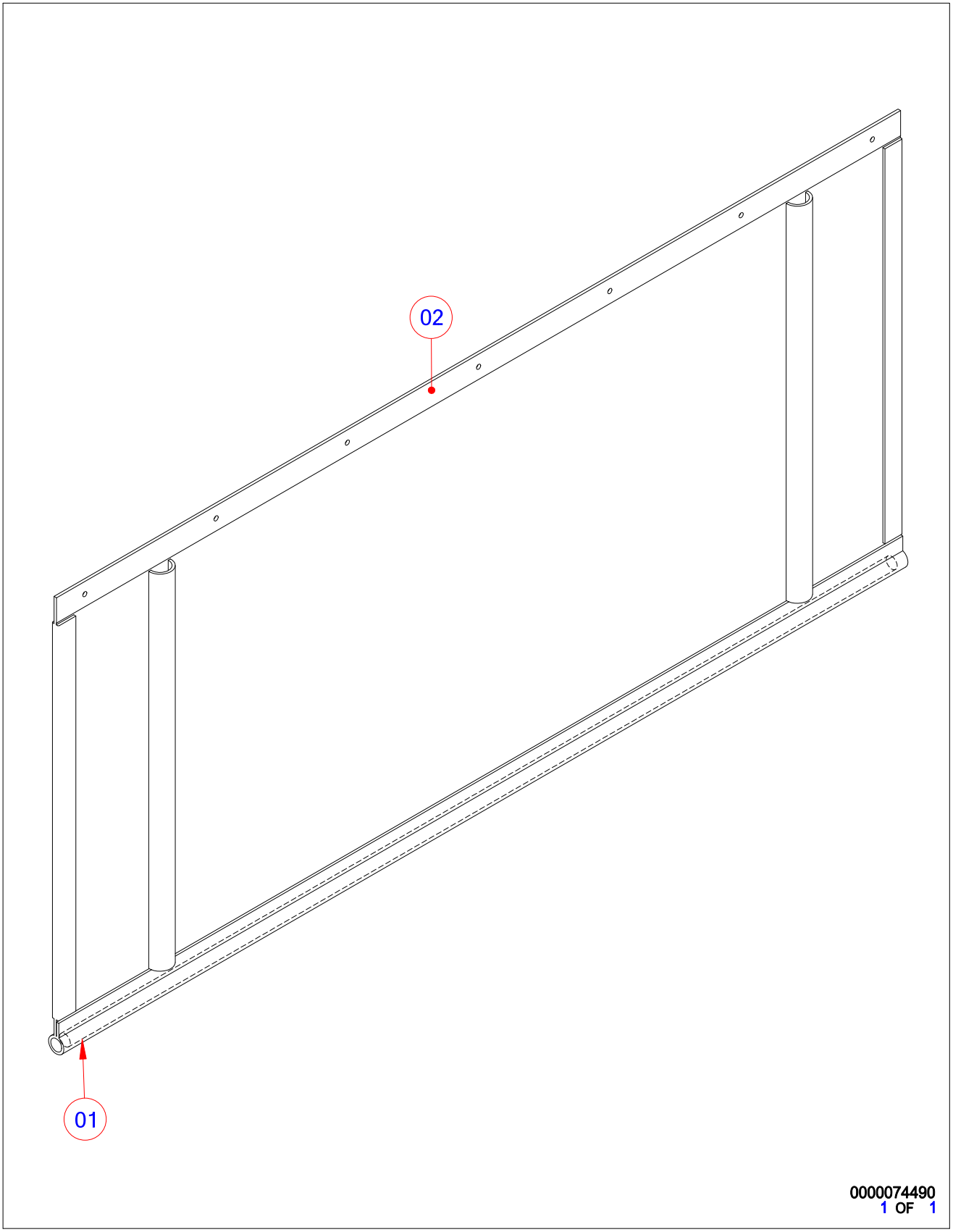


CURTAIN, DUST, DOOR

DUST CURTAIN, DOOR

Item	Part No.	Description	Qty.
	R98727D1	DUST CURTAIN, DOOR	
01	R98727D2	▪ ROD	1
02	R98727D3	▪ DUST CURTAIN, Door	1

DUST CURTAIN, SIDE

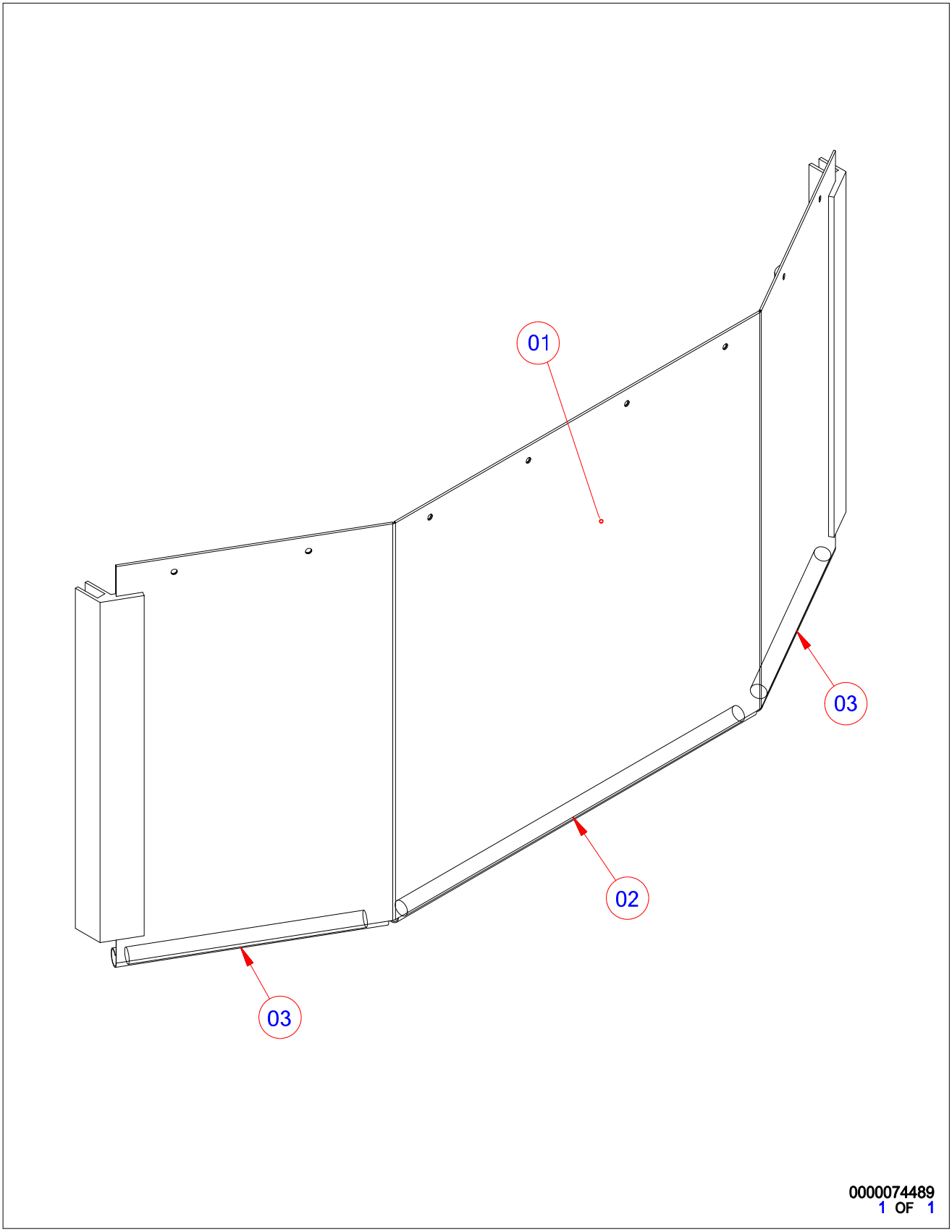


CURTAIN, SIDE DUST

DUST CURTAIN, SIDE

Item	Part No.	Description	Qty.
	R98728D1	DUST CURTAIN, SIDE	
01	R98728D2	▪ ROD	1
02	R98728D3	▪ DUST CURTAIN, Side	1

DUST CURTAIN, FRONT

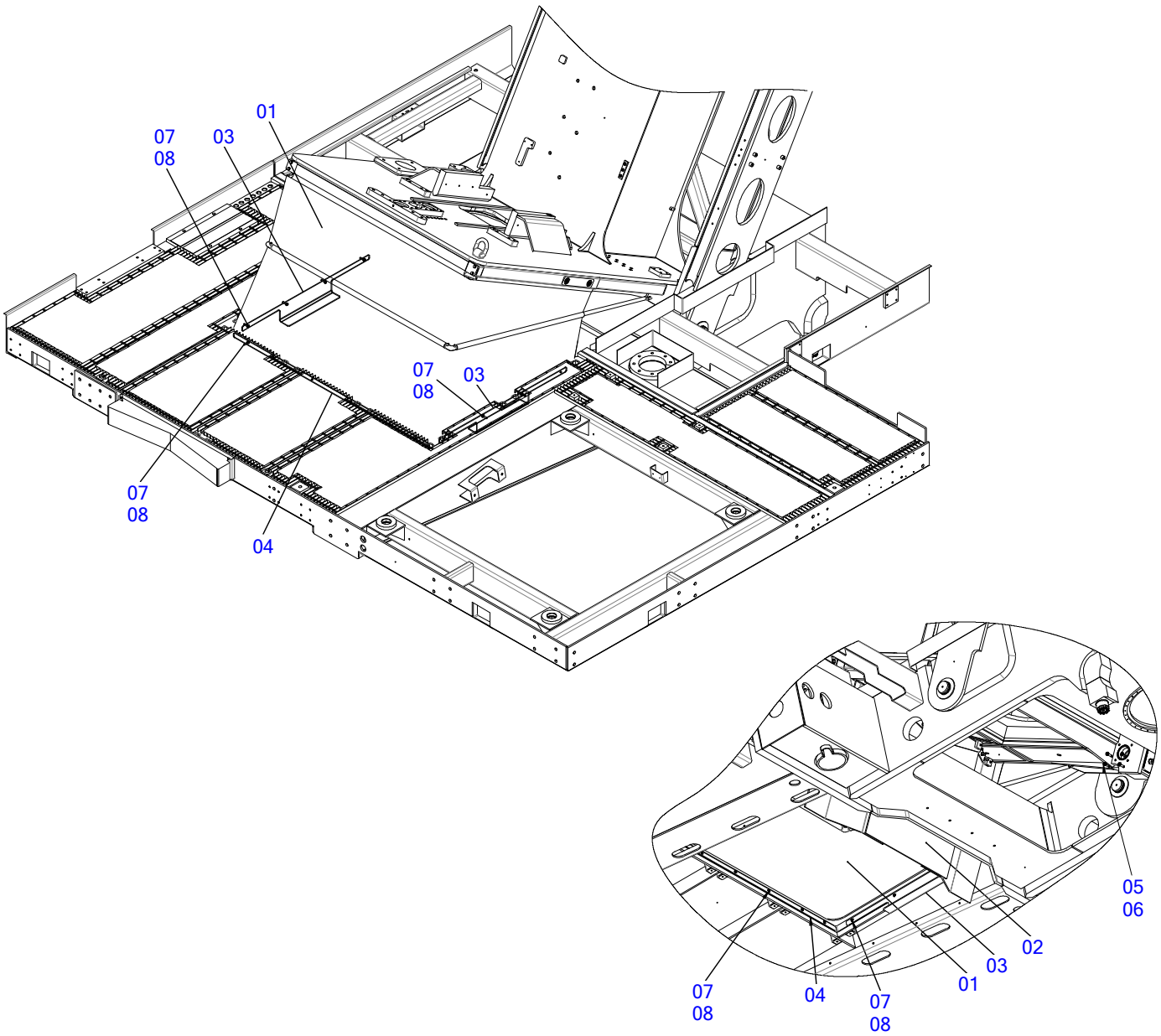


CURTAIN, FRONT DUST

DUST CURTAIN, FRONT

Item	Part No.	Description	Qty.
	R98729D1	DUST CURTAIN, FRONT	
01	R98729D2	▪ DUST CURTAIN, Front	1
02	R98729D3	▪ ROD	1
03	R98729D4	▪ ROD	2

DUST CONTAINMENT, ANGLE MAST

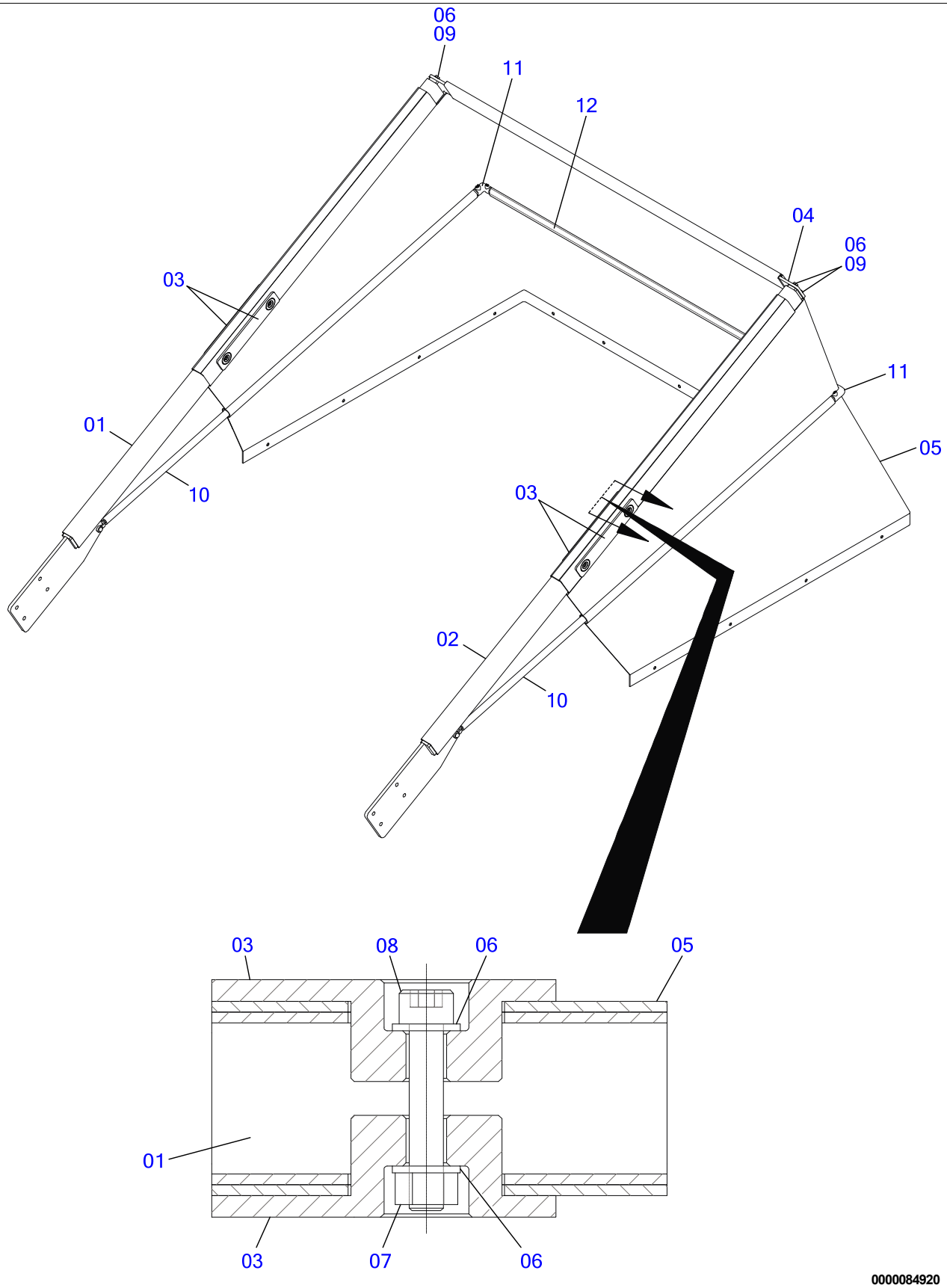


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DUST CONTAINMENT, ANGLE MAST

Item	Part No.	Description	Qty.	Page
	R115779F1	DUST CONTAINMENT, ANGLE MAST		
01	R115778F1	▪ CURTAIN, Dust, Angled Mast	1	276
02	R115179F3	▪ INSTALLATION, Bit Dust Cutains	1	277
03	R98767D2	▪ PLATE, Dust Curtain	2	
04	R98767D3	▪ PLATE, Dust Curtain	1	
05	0825M12050	▪ BOLT, Hex Hd	8	
06	3612M012	▪ WASHER, Plain	8	
07	0836M10040	▪ SCREW, Button Hd Cap	14	
08	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	14	

CURTAIN ASSEMBLY, ANGLE MAST DUST

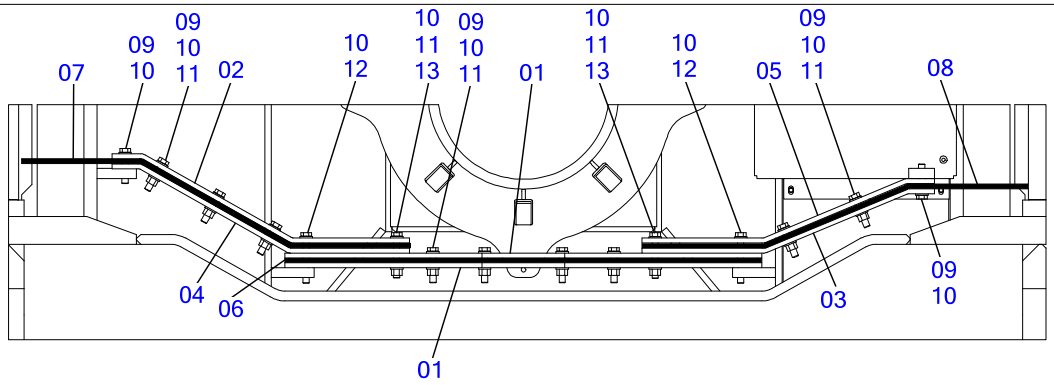


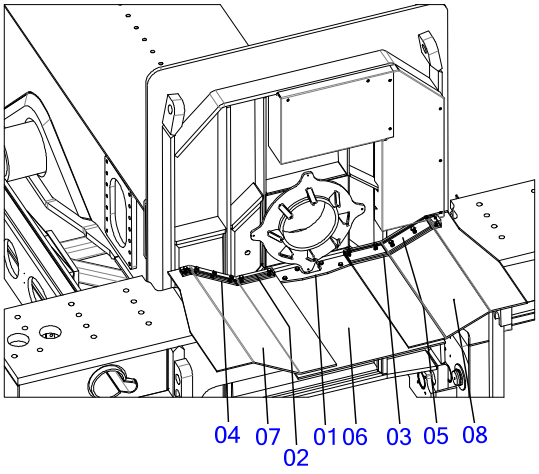
CURTAIN ASSEMBLY, ANGLE MAST DUST

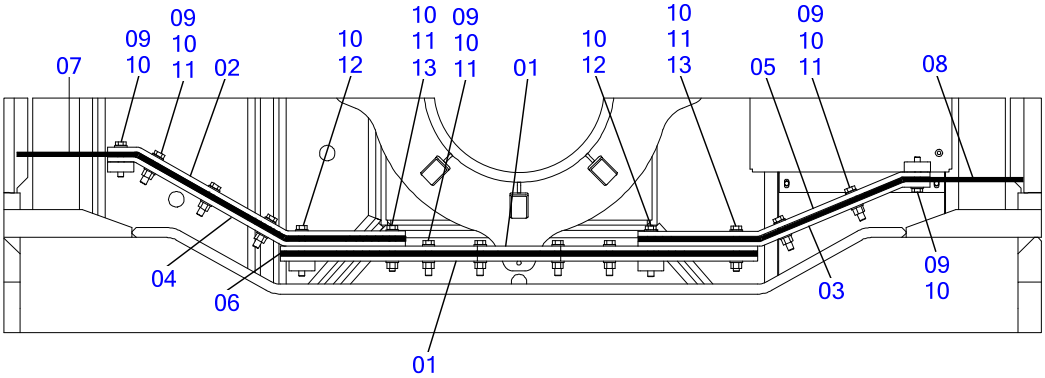
CURTAIN ASSEMBLY, ANGLE MAST DUST

Item	Part No.	Description	Qty.
	R115778F1	CURTAIN ASSEMBLY, ANGLE MAST DUST	
01	R115771D1	· BEAM, Dust Curtain	1
02	R115772D1	· BEAM, Dust Curtain	1
03	R115768D1	· RETAINER, Dust Curtain	4
04	R115780D1	· BRACE, Dust Curtain	1
05	R115773D1	· CURTAIN, Angle Mast Dust	1
06	3612M010	· WASHER, Plain	12
07	2104M010	· NUT, Hex	4
08	0630M10055	· SCREW, Socket Hd	4
09	0825M10025	· BOLT, Hex Hd	4
10	R115770D1	· CLEVIS, Support Rod	2
11	R98867D1	· ELBOW, Slip On	2
12	R98866D2	· TUBE, Support	1

BIT DUST CURTAINS







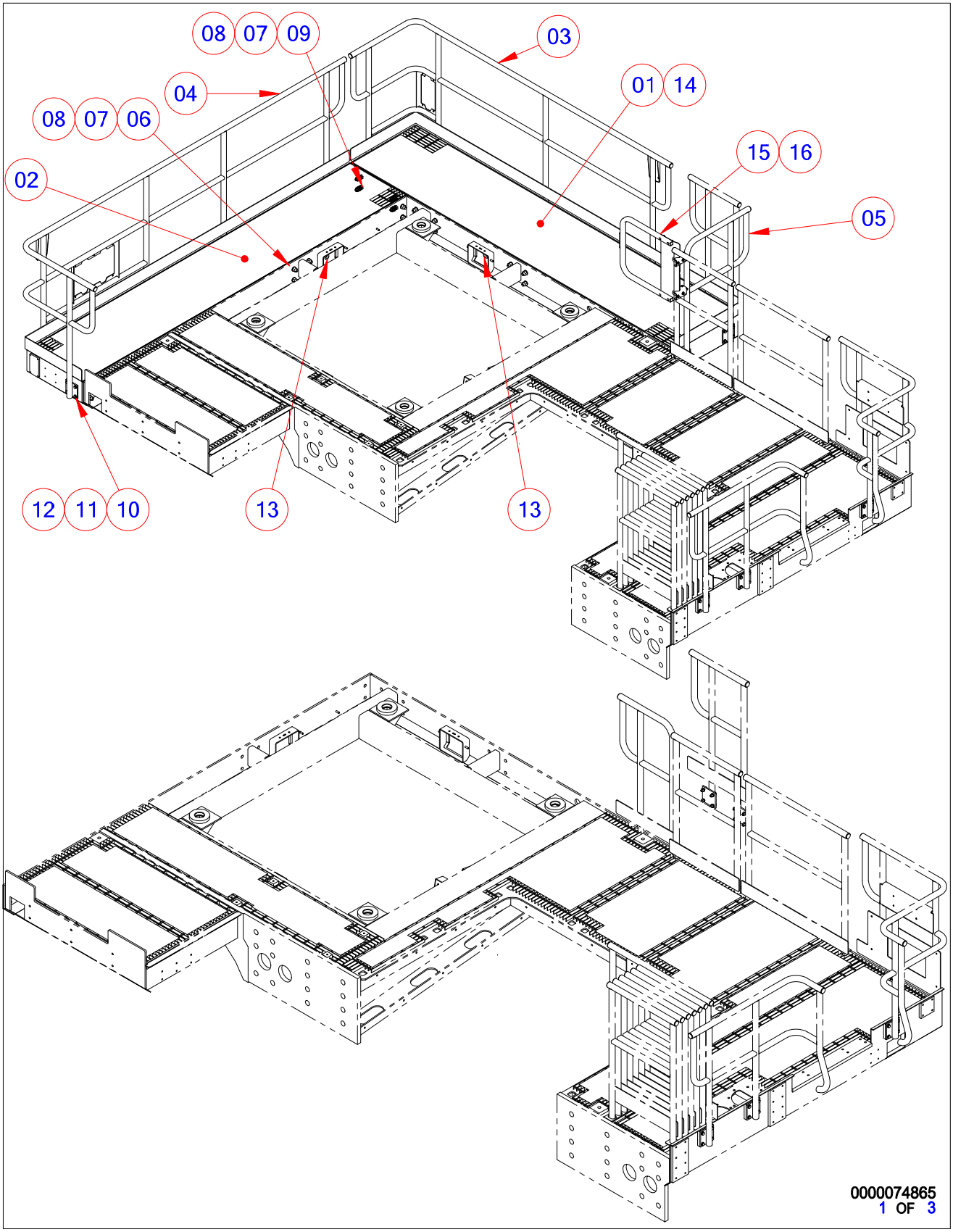
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BIT DUST CURTAINS

BIT DUST CURTAINS

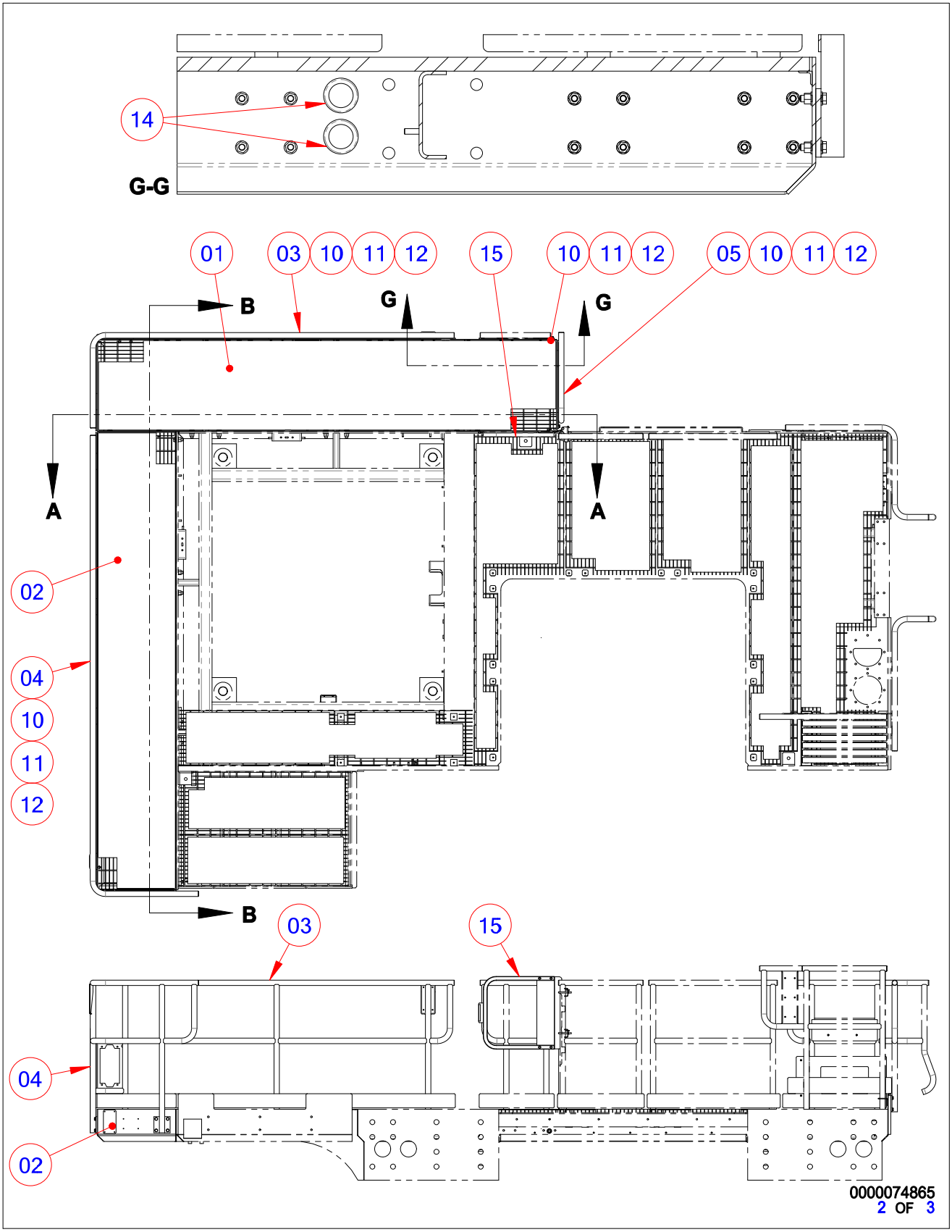
Item	Part No.	Description	Qty.
	R115179F3	BIT DUST CURTAINS	
01	R114803D1	▪ PLATE, Dust Curtain Mounting	2
02	R114804D1	▪ RETAINER, Dust Curtain	1
03	R114805D1	▪ RETAINER, Dust Curtain	1
04	R114806D1	▪ RETAINER, Dust Curtain	1
05	R114807D1	▪ RETAINER, Dust Curtain	1
06	R115173D1	▪ CURTAIN, Dust	1
07	R115174D1	▪ CURTAIN, Dust	1
08	R115175D1	▪ CURTAIN, Dust	1
09	0825M12060	▪ BOLT, Hex Hd	11
10	3612M012	▪ WASHER, Plain	26
11	2104M012	▪ NUT, Hex	11
12	0825M12090	▪ BOLT, Hex Hd	2
13	0825M12080	▪ BOLT, Hex Hd	2

PLATFORM INSTALLATION, REAR DECK



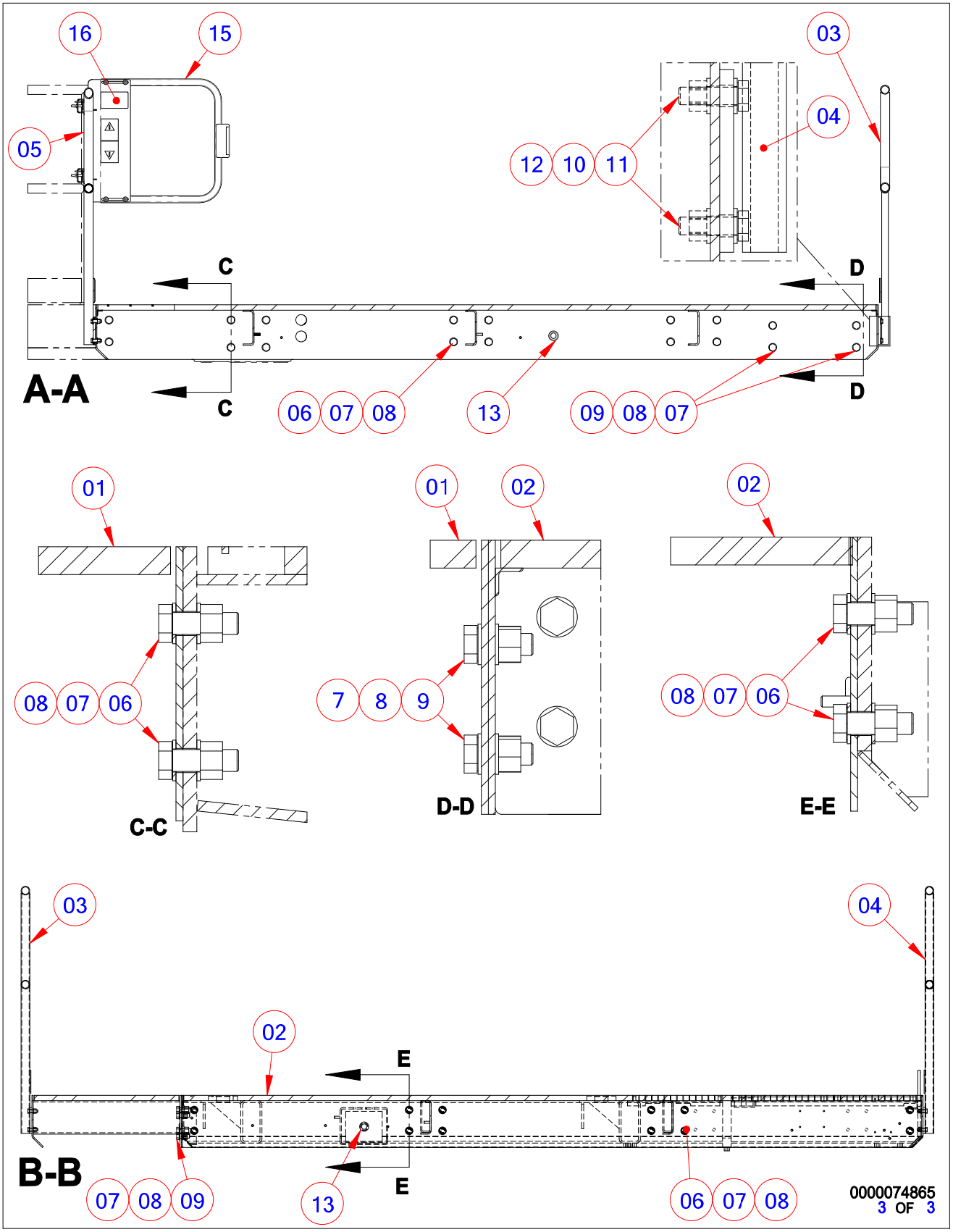
PLATFORM INSTALLATION, REAR DECK

PLATFORM INSTALLATION, REAR DECK



PLATFORM INSTALLATION, REAR DECK

PLATFORM INSTALLATION, REAR DECK

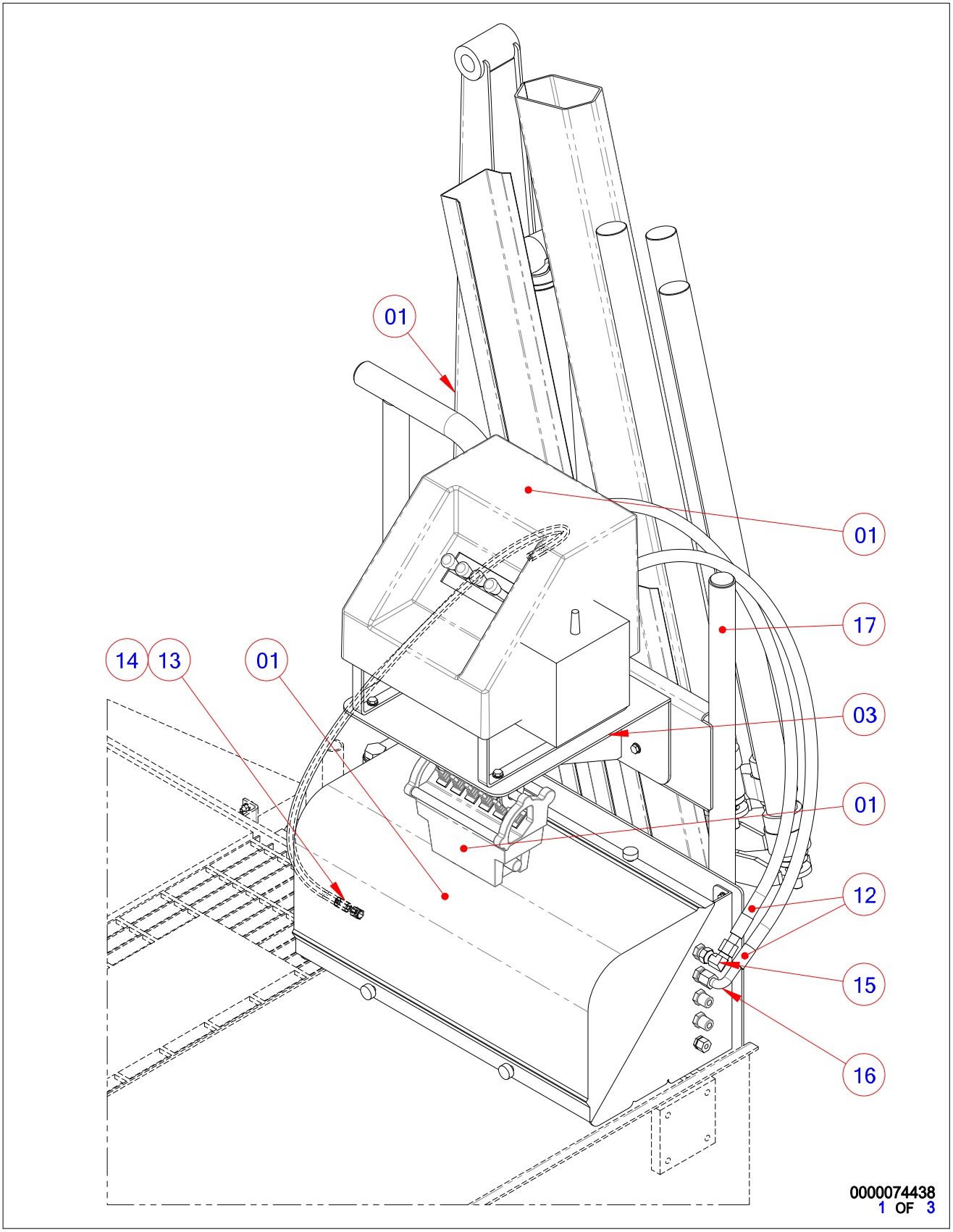


PLATFORM INSTALLATION, REAR DECK

PLATFORM INSTALLATION, REAR DECK

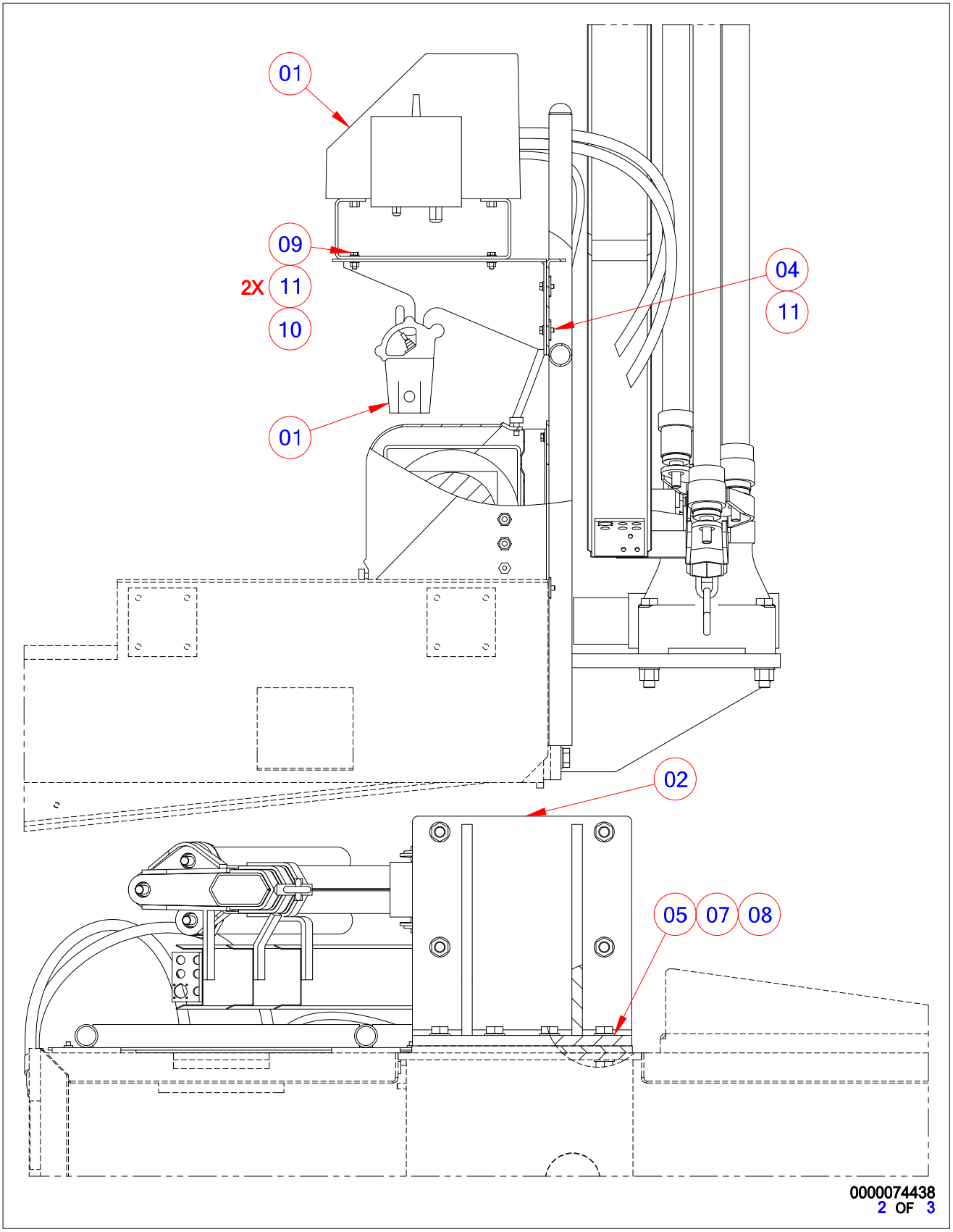
Item	Part No.	Description	Qty.
	R103300F1	PLATFORM INSTALLATION, REAR DECK	
01	R103298D1	· PLATFORM, Cab, Rear	1
02	R103299D1	· PLATFORM, Cab, RH	1
03	R107130D1	· HANDRAIL, Platform, Cab, Rear	1
04	R107131D1	· HANDRAIL, Platform, Cab, RH	1
05	R99521D1	· HANDRAIL, Platform, Cab, Rear	1
06	0825M20060	· BOLT, Hex Hd	26
07	3648M020	· WASHER, Hardened	60
08	2104M020	· NUT, Hex	30
09	0825M20050	· BOLT, Hex Hd	4
10	3648M012	· WASHER, Hardened	104
11	0825M12040	· BOLT, Hex Hd	52
12	2104M012	· NUT, Hex	52
13	R98812D76	· GROMMET, Push-In	2
14	R98812D97	· GROMMET, Push-In	2
15	R97683D3	· GATE, Spring-Close	1
16	R89991D2	· DECAL, Fall Hazard, Mast Handrails	1

INSTALLATION, DECK CRANE



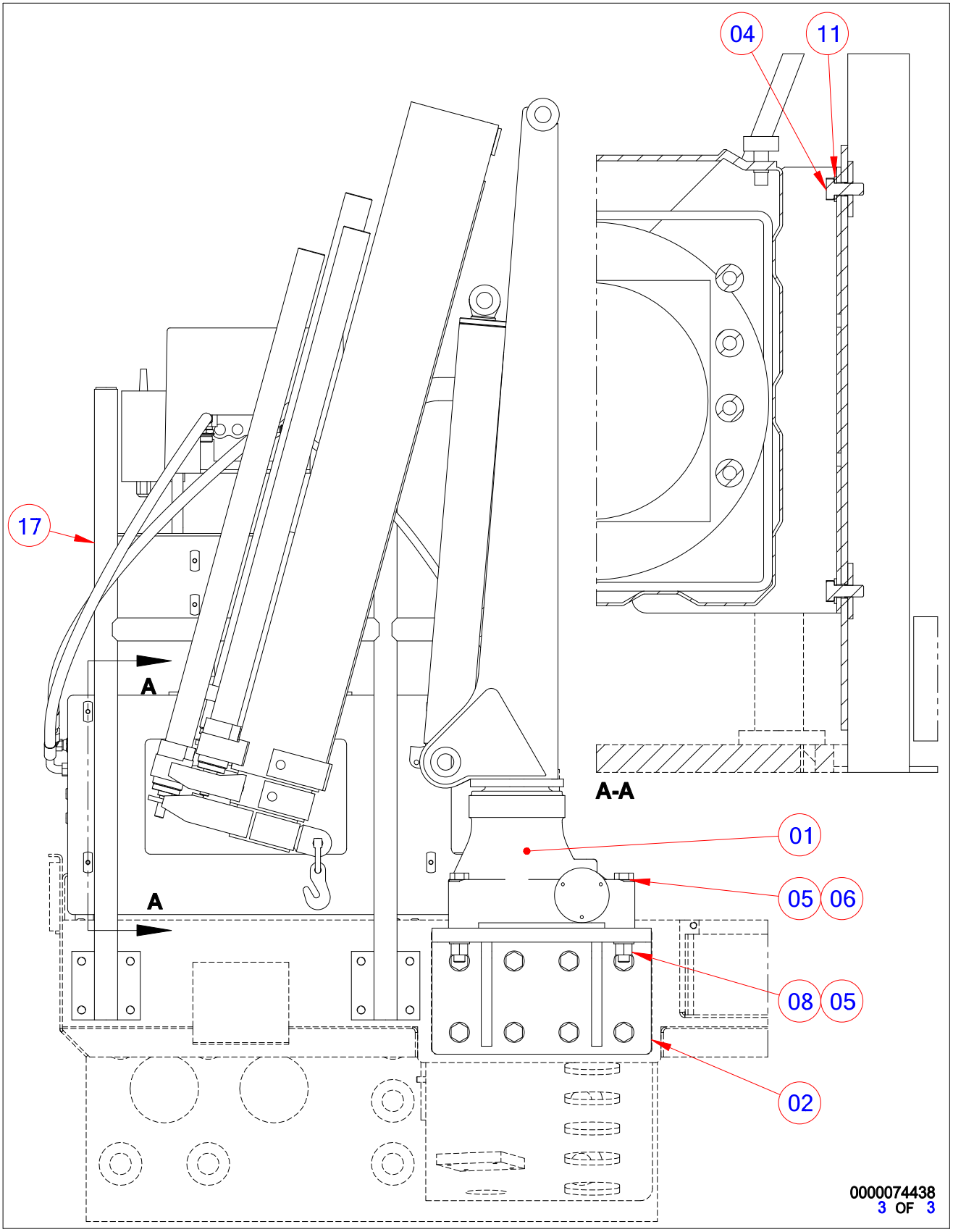
INSTALLATION, DECK CRANE

INSTALLATION, DECK CRANE



INSTALLATION, DECK CRANE

INSTALLATION, DECK CRANE

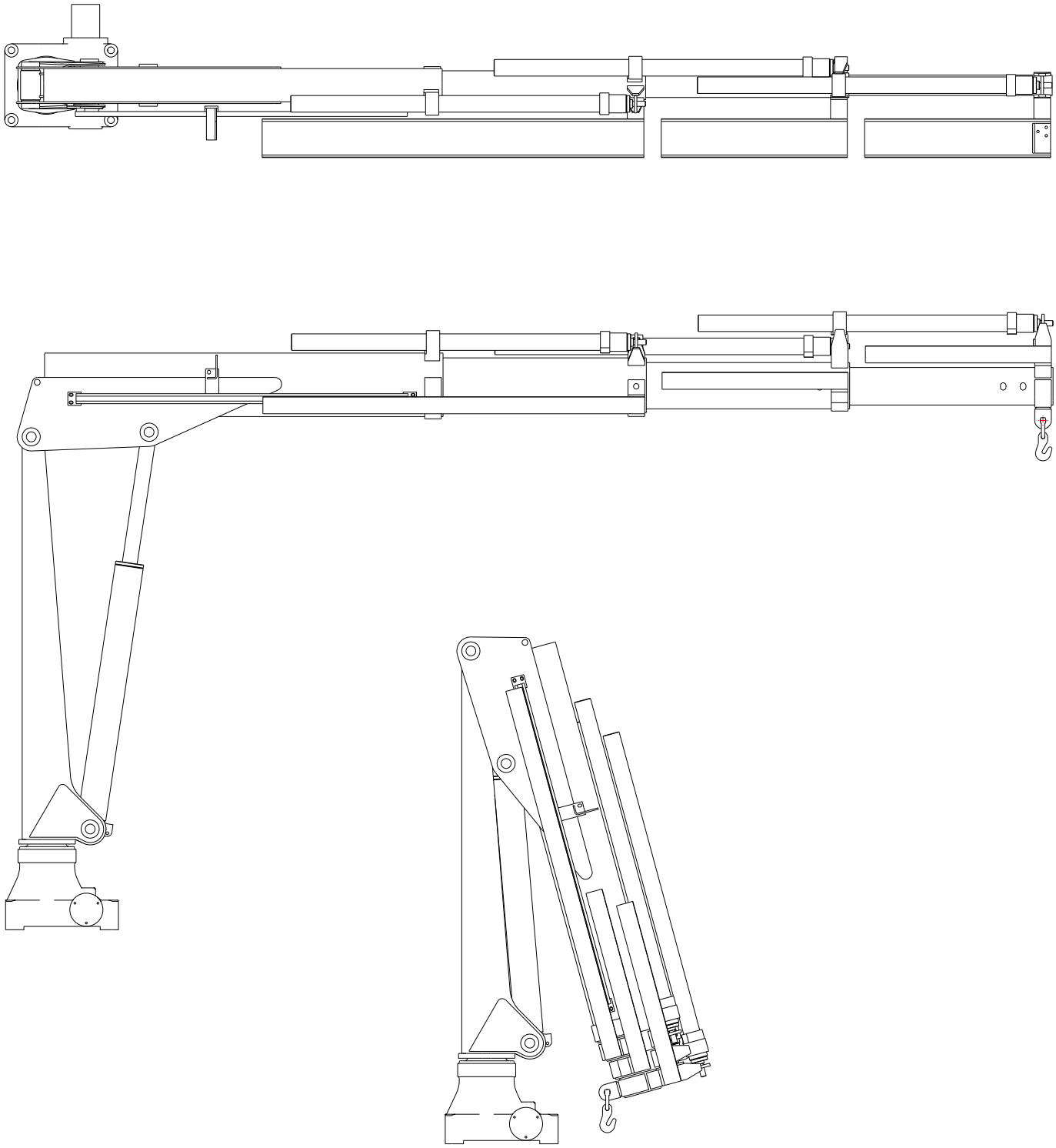


INSTALLATION, DECK CRANE

INSTALLATION, DECK CRANE

Item	Part No.	Description	Qty.	Page
	R90177F1	INSTALLATION, DECK CRANE		
01	R97953D1	▪ CRANE, Deck	1	280
02	R99203D2	▪ MOUNTING BRACKET, Deck Crane	1	
03	R99322D2	▪ BRACKET CONTROLLER	1	
04	0825M08020	▪ BOLT, Hex Hd	8	
05	3648M020	▪ WASHER, Hardened	24	
06	0825M20150	▪ BOLT, Hex Hd	4	
07	0825M20080	▪ BOLT, Hex Hd	8	
08	2104M020	▪ NUT, Hex	12	
09	0825M08025	▪ BOLT, Hex Hd	4	
10	2104M008	▪ NUT, Hex	4	
11	3648M008	▪ WASHER, Hardened	16	
12	R81814T08D45	▪ HOSE ASSEMBLY	2	
13	R81828T04D50	▪ HOSE ASSEMBLY	1	
14	44Z421D4	▪ ELBOW	1	
15	44Z1557D4	▪ ELBOW	1	
16	44Z421D6	▪ ELBOW	1	
17	R99517D1	▪ HANDRAIL, Rear Deck	1	

CRANE, DECK

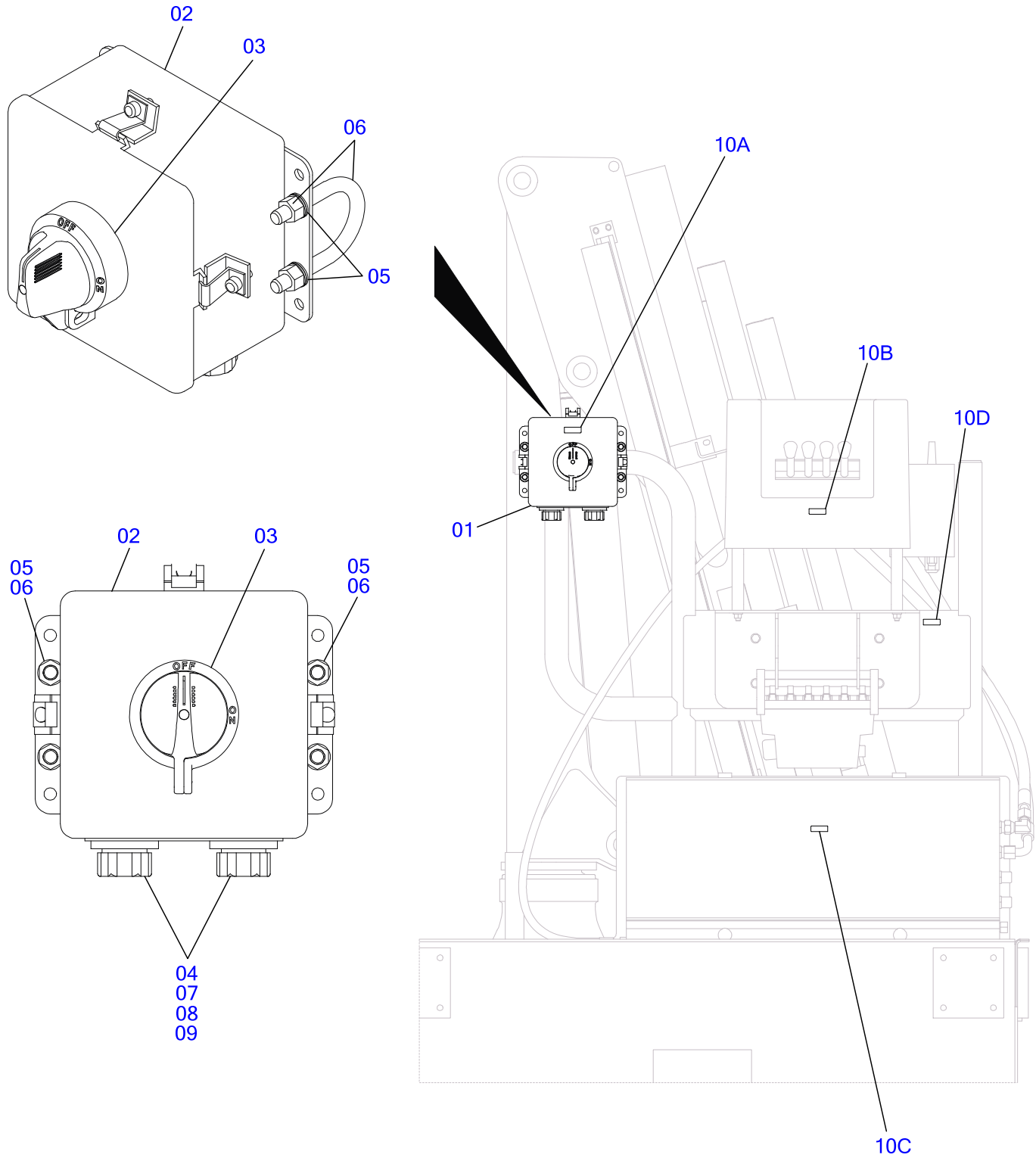


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1 OF 1

CRANE, DECK

Item	Part No.	Description	Qty.
	R97953D1	CRANE, DECK	
01	R97953D2	▪ CRANE, Deck	1
02	R97953D3	▪ CONTROLLER, Deck Crane	1
03	R97953D4	▪ POWER PACK, Deck Crane	1
04	R97953D5	▪ REMOTE, Radio, Deck Crane	1

ELECTRICAL INSTALLATION, DECK CRANE

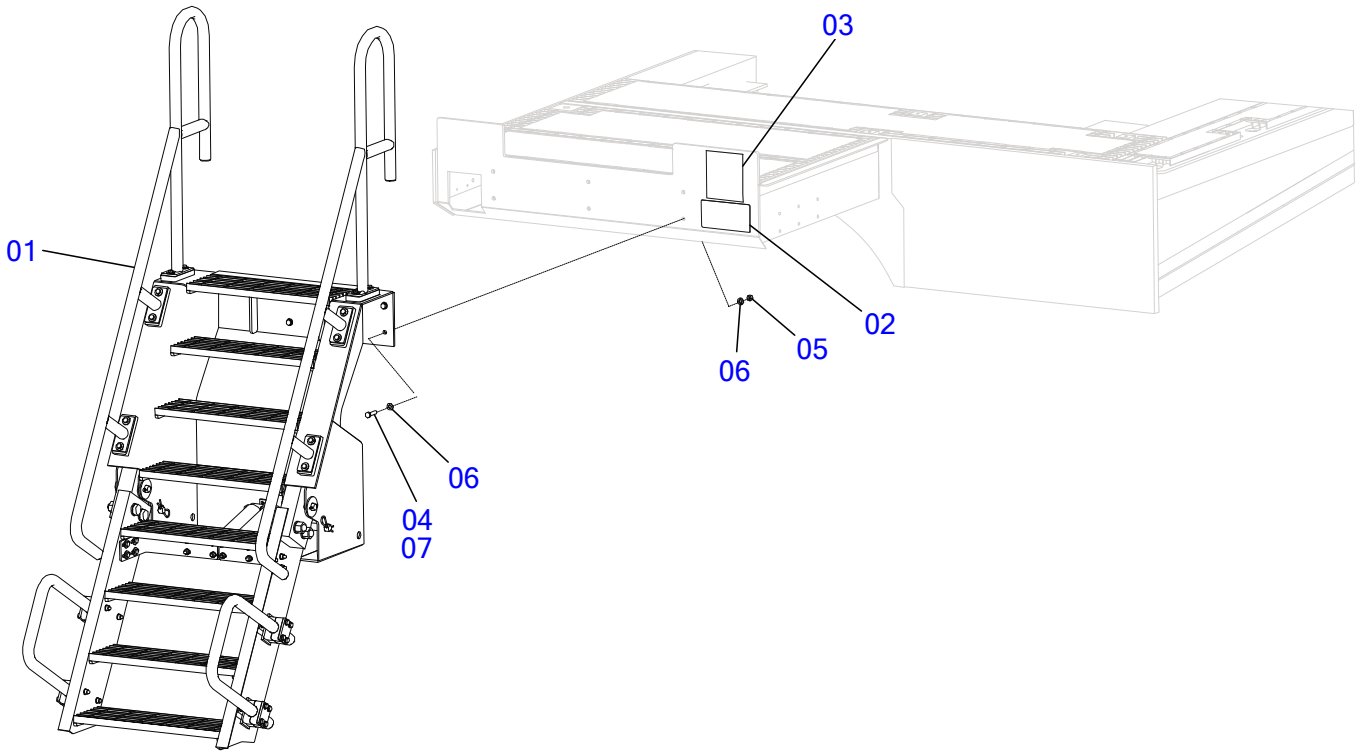


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ELECTRICAL INSTALLATION, DECK CRANE

Item	Part No.	Description	Qty.
	R100563F2	ELECTRICAL INSTALLATION, DECK CRANE	
01	R100550F1	・SWITCH, Deck Crane	1
02	R100549F1	・・BOX, Deck Crane Switch	1
03	R85048D1	・・SWITCH, Disconnect	1
04	85Z24D8	・・GRIP, Cord	2
05	R82264D6	・・LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4
06	R66239D1	・・U-BOLT	2
07	79Z1918D3	・・RING, Sealing	2
08	0944V003	・・LOCKNUT, Conduit	2
09	0906V003	・・BUSHING, Insulating	2
		NOTE: Decals below not sold individually.	
10	R91004D1	・DECALS, Deck Crane Chassis	1
10A		・・DECAL, SW_DC	1
10B		・・DECAL, DC_CTRL	1
10C		・・DECAL, DC_P	1
10D		・・DECAL, FU_DCC	1

INSTALLATION, MAIN STAIR, REAR DECK

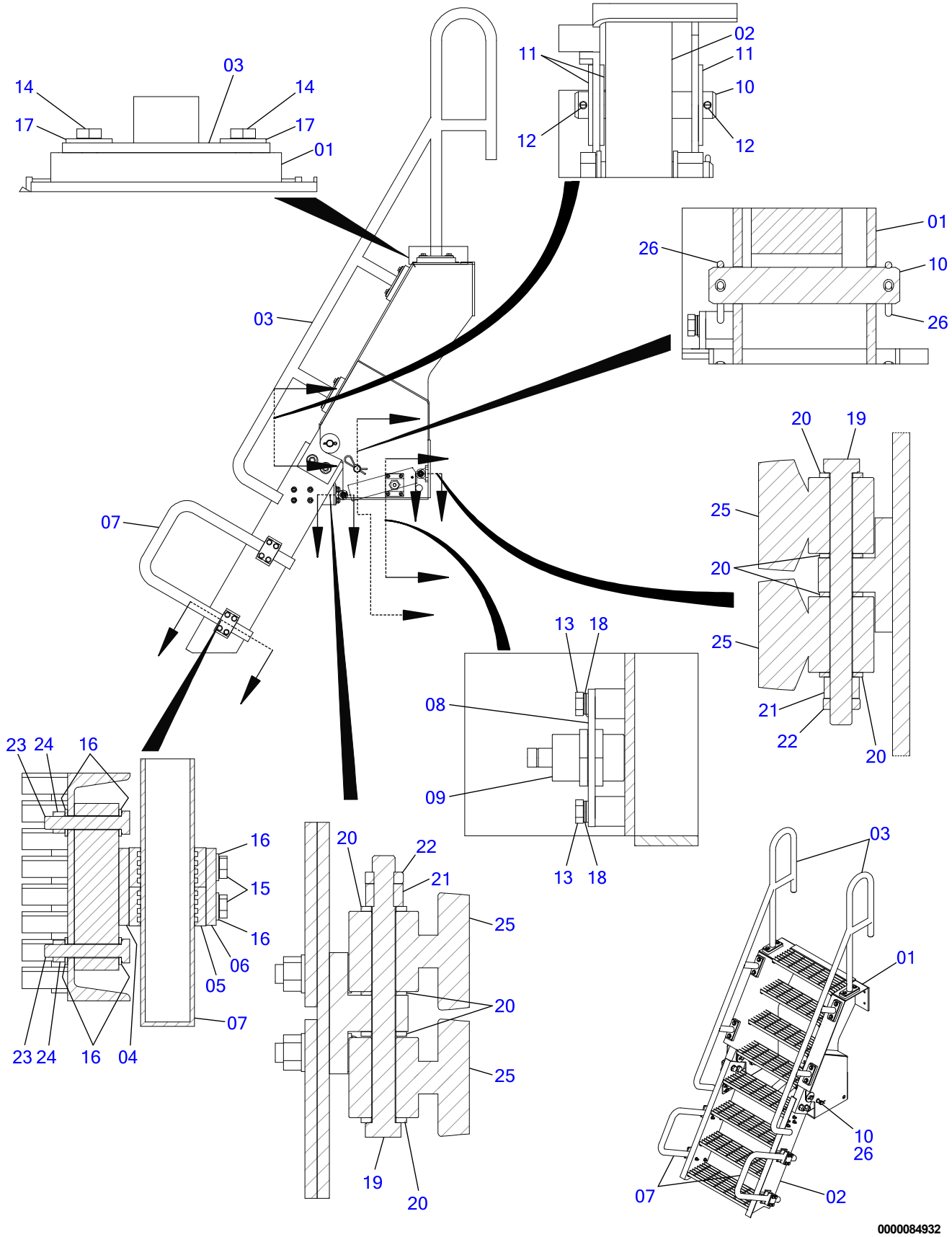


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INSTALLATION, MAIN STAIR, REAR DECK

Item	Part No.	Description	Qty.	Page
	R9012896F1	INSTALLATION, MAIN STAIR, REAR DECK		
01	R9012904F1	▪ STAIR ASSEMBLY, Cab Boarding	1	283
02	R89990D1	▪ DECAL, Warning, Crush or Pinch Area	1	
03	R83396D1	▪ DECAL, Warning, Silica Dust	1	
04	0825M12050	▪ BOLT, Hex Hd	6	
05	3648M012	▪ WASHER, Hardened	12	
06	2104M012	▪ NUT, Hex	6	
07	21Z772D4	▪ COMPOUND, Sealing and Locking	1	

STAIR ASSEMBLY, CAB BOARDING



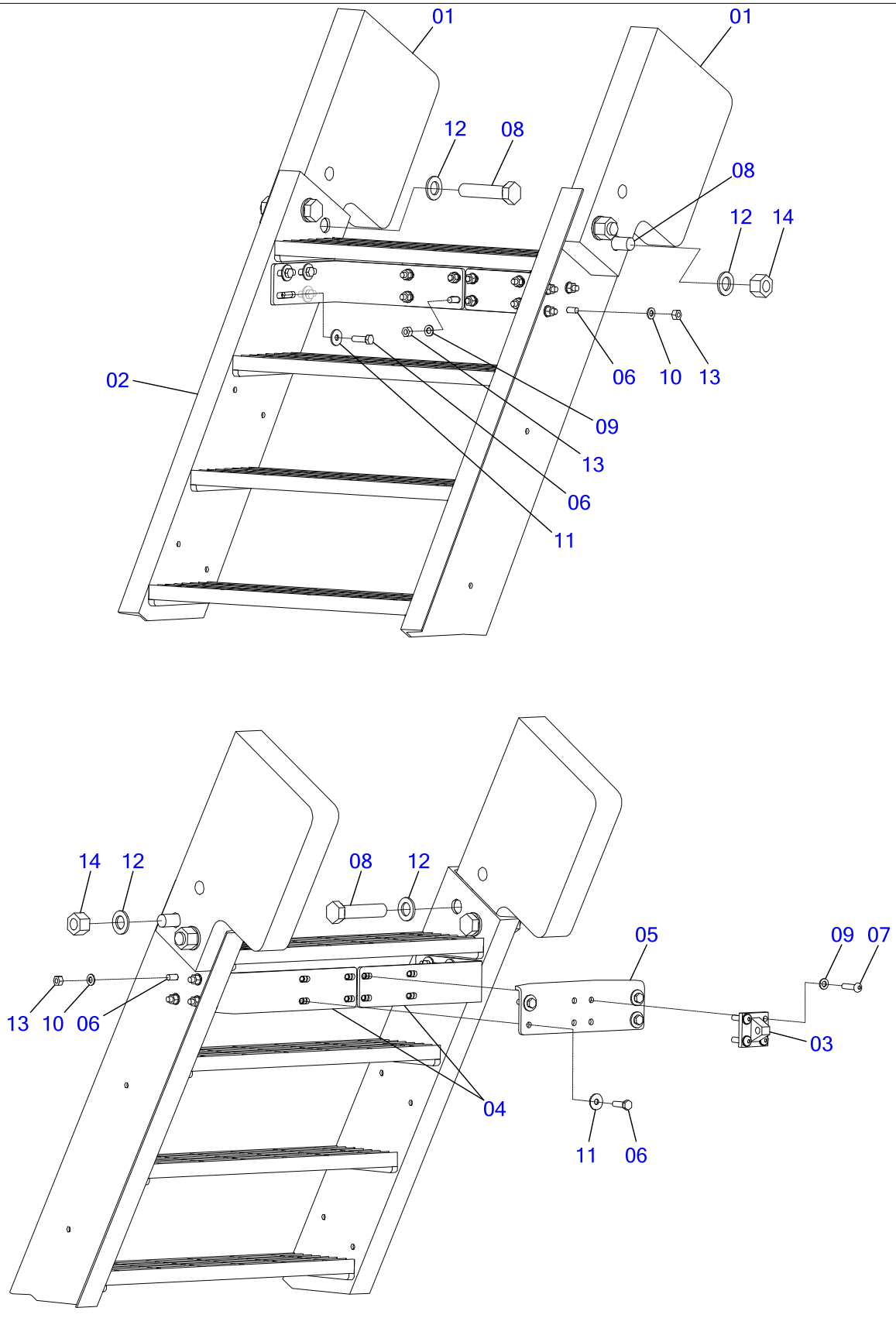
STAIR ASSEMBLY, CAB BOARDING

KOMATSU

STAIR ASSEMBLY, CAB BOARDING

Item	Part No.	Description	Qty.	Page
	R9012904F1	STAIRWAY ASSEMBLY, Cab Boarding		
01	R9013042D1	▪ STAIRWAY, Upper	1	
02	R9012903F1	▪ STAIRWAY, Lower Assembly	1	284
03	R90278D1	▪ HANDRAIL, Main Boarding Stair	2	
04	R9003275D1	▪ CLAMP BASE, Double - with Spacer	4	
05	R89257D6	▪ CLAMP BODY, Aluminum, 42mm	8	
06	44Z2567D3	▪ CLAMP PLATE, Double	4	
07	R9003276D1	▪ HANDRAIL, Lower Stairway	2	
08	R99225D1	▪ ADAPTER PLATE, Stairway Proximity Switch	1	
09	R90575D1	▪ SWITCH, Proximity	1	
10	19F57D21	▪ PIN, Drilled	4	
11	3645V060	▪ WASHER, Plain	6	
12	2203V083	▪ PIN, Cotter	4	
13	0825M08020	▪ BOLT, Hex Hd	4	
14	0825M10025	▪ BOLT, Hex Hd	12	
15	0825M10075	▪ BOLT, Hex Hd	16	
16	3648M010	▪ WASHER, Hardened	32	
17	3510M010	▪ WASHER, Oversized	12	
18	R82264D5	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4	
19	0825M12140	▪ BOLT, Hex Hd	2	
20	3612M012	▪ WASHER, Plain	8	
21	2104M012	▪ NUT, Hex	2	
22	R43649D7	▪ NUT, Hex Jam	2	
23	0825M10060	▪ BOLT, Hex Hd	8	
24	2104M010	▪ NUT, Hex	8	
25	R72222D1	▪ ABSORBER, Shock	2	
26	19Z297D3	▪ HAIR PIN	4	

STAIRWAY LOWER ASSEMBLY

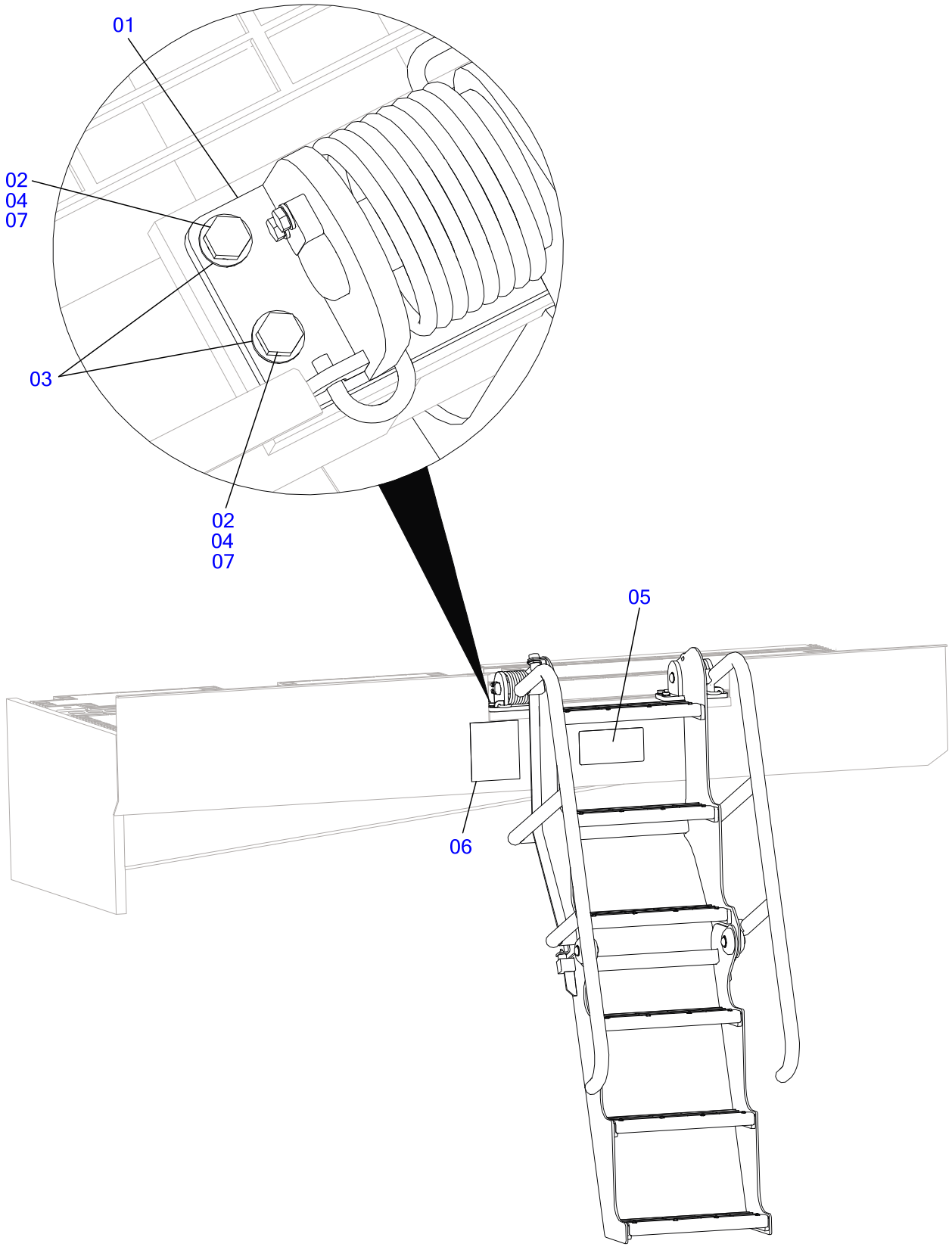


STAIRWAY LOWER ASSEMBLY

STAIRWAY LOWER ASSEMBLY

Item	Part No.	Description	Qty.
	R9012903F1	STAIRWAY LOWER ASSEMBLY	
01	R103695D1	· PLATE, Counterweight, 2.50 Inch	2
02	R9012897D1	· STAIRWAY, Lower	1
03	R15624D1	· BRACKET, Cylinder Eye	1
04	R9006198D1	· BRACKET, Stairway Reinforcing	2
05	R9006199D1	· ANGLE, Stairway Reinforcing	1
06	0825M10035	· BOLT, Hex Hd	12
07	0836M10040	· SCREW, Button Hd Cap	4
08	0825M24110	· BOLT, Hex Hd	4
09	3612M010	· WASHER, Plain	8
10	3648M010	· WASHER, Hardened	12
11	R89928D7	· WASHER, Oversized	12
12	3648M024	· WASHER, Hardened	8
13	2104M010	· NUT, Hex	16
14	2104M024	· NUT, Hex	4

STAIR ASSEMBLY INSTALLATION, REAR DECK EGRESS



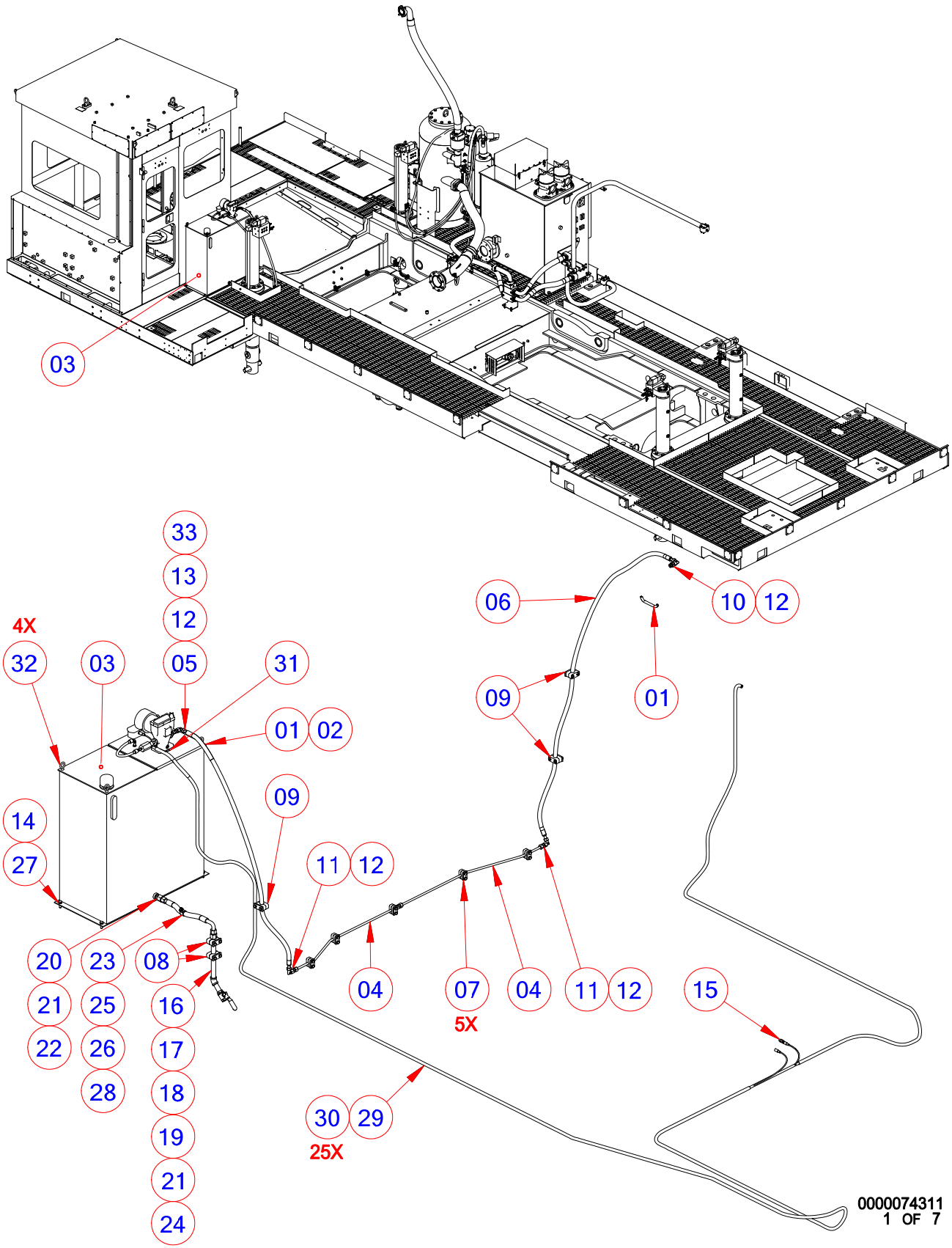
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STAIR ASSEMBLY INSTALLATION, REAR DECK EGRESS

STAIR ASSEMBLY INSTALLATION, REAR DECK EGRESS

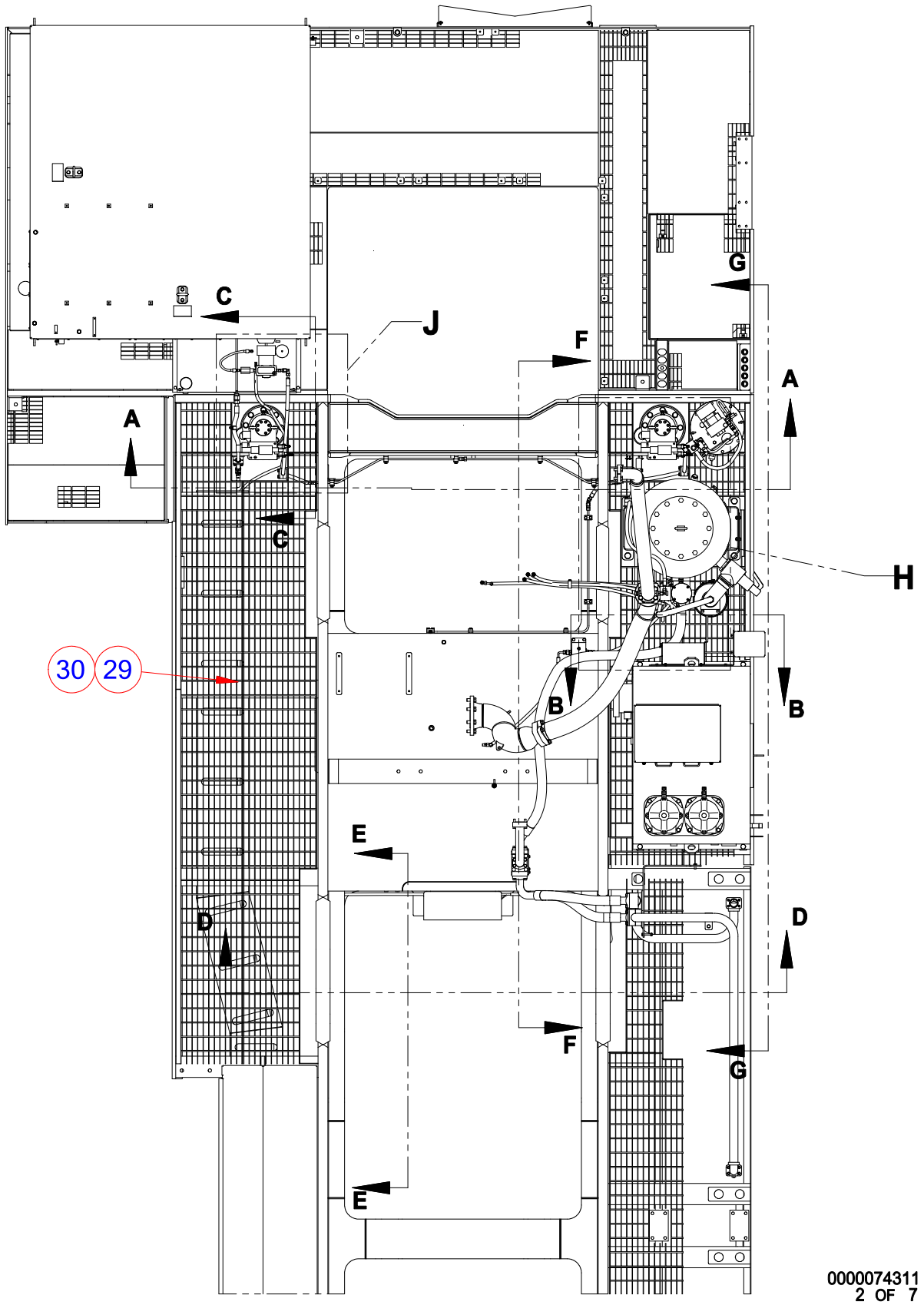
Item	Part No.	Description	Qty.	Page
	R9013043F1	STAIR ASSEMBLY INSTALLATION, REAR DECK EGRESS		
01	R107771F1	▪ ACCESS LADDER, Auxiliary	1	126
02	0825M12065	▪ BOLT, Hex Hd	8	
03	3648M012	▪ WASHER, Hardened	16	
04	2104M012	▪ NUT, Hex	8	
05	R89990D1	▪ DECAL, Warning, Crush or Pinch Area	1	
06	R83396D1	▪ DECAL, Warning, Silica Dust	1	
07	21Z772D4	▪ COMPOUND, Sealing and Locking	1	

INSTALLATION, BIT LUBE



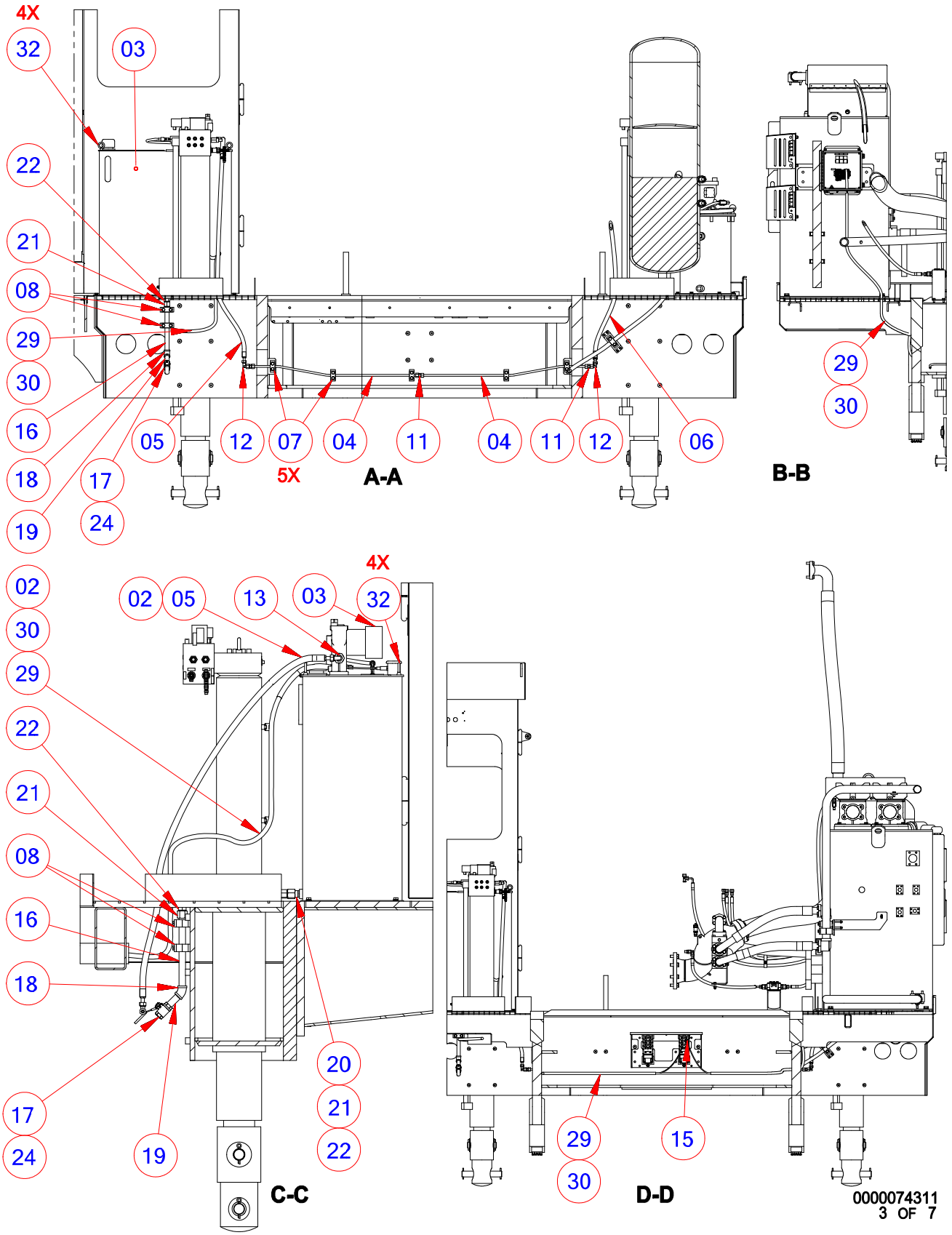
INSTALL, BIT LUBE

INSTALLATION, BIT LUBE



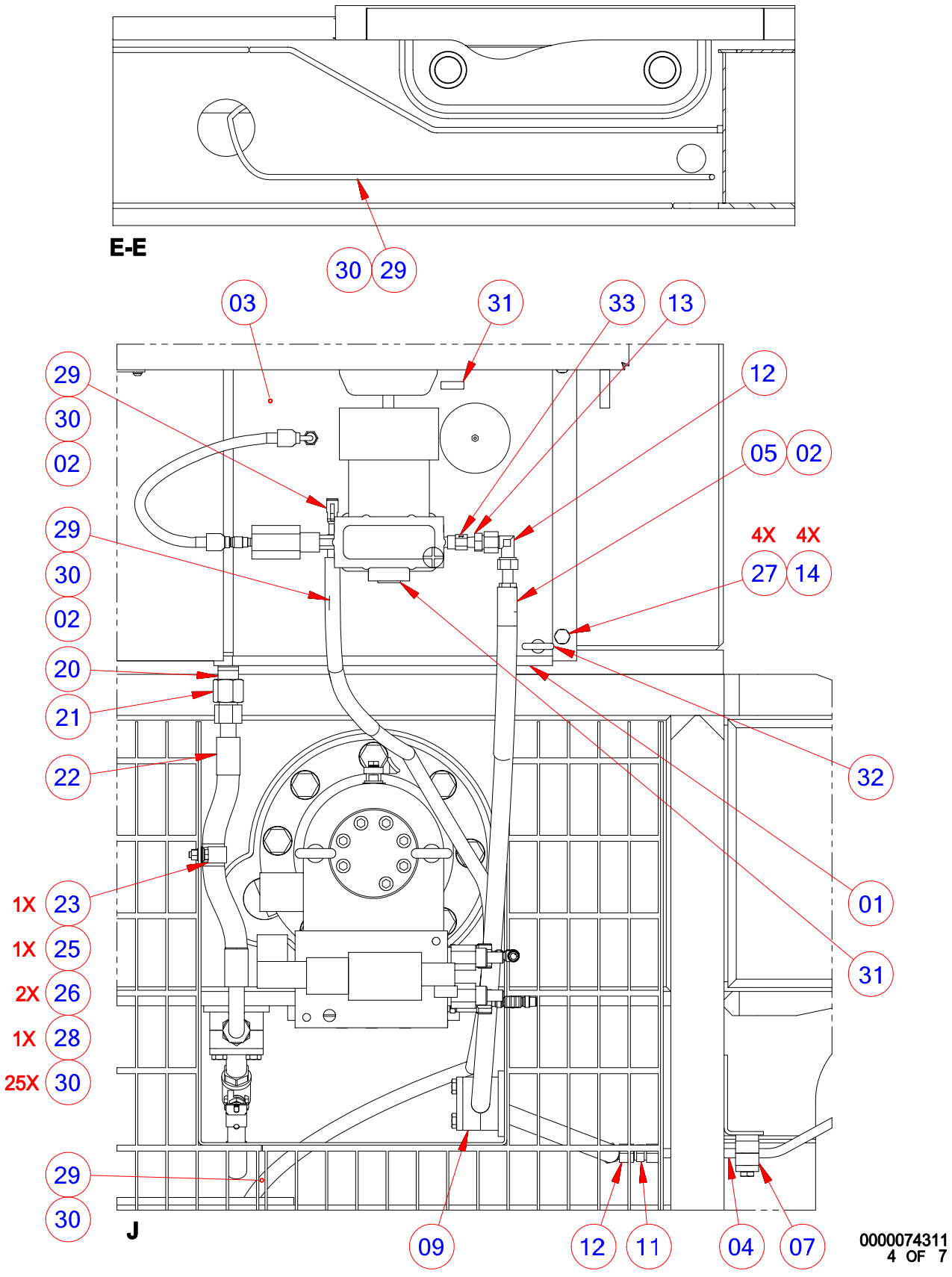
INSTALL, BIT LUBE

INSTALLATION, BIT LUBE



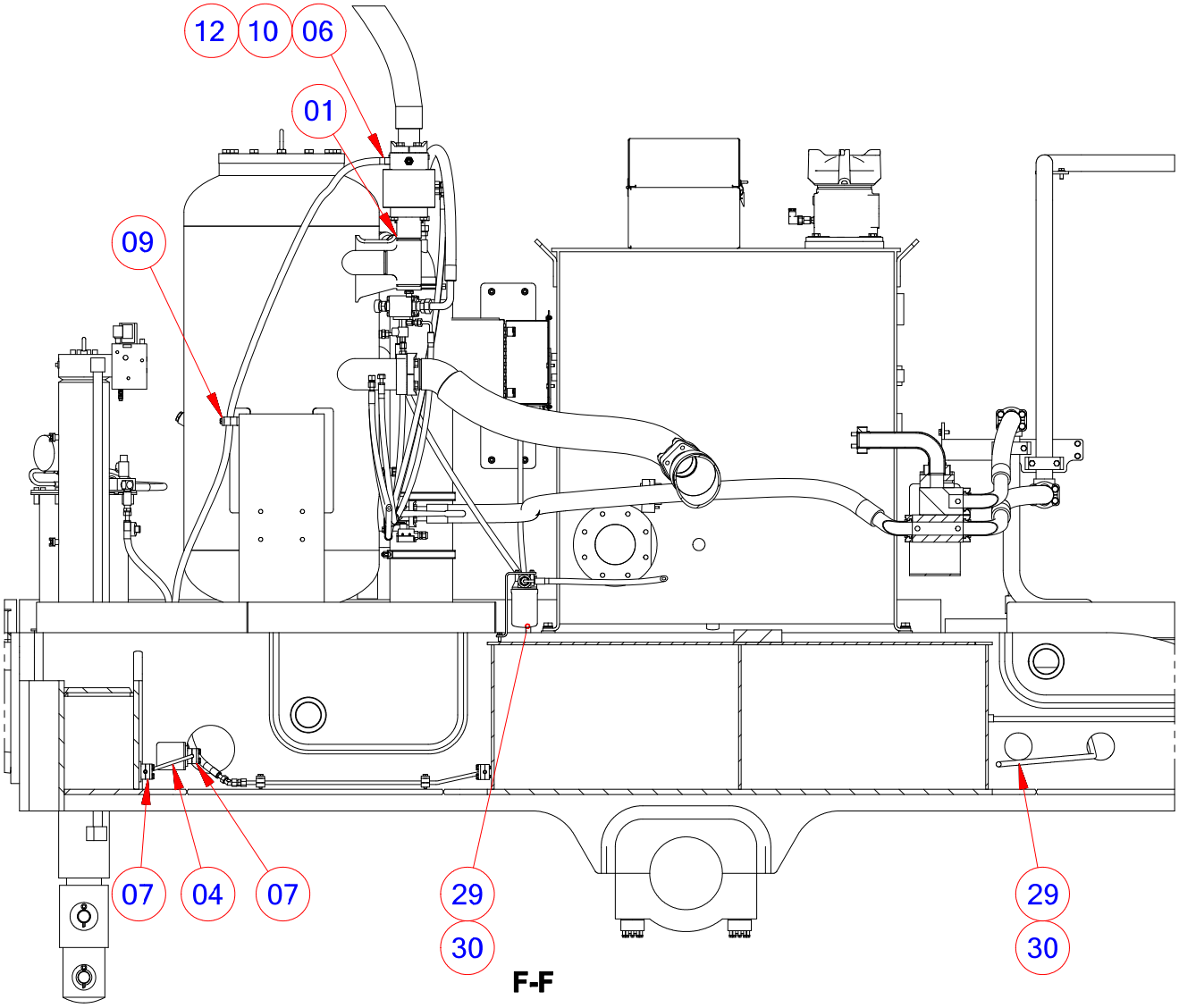
INSTALL, BIT LUBE

INSTALLATION, BIT LUBE



INSTALL, BIT LUBE

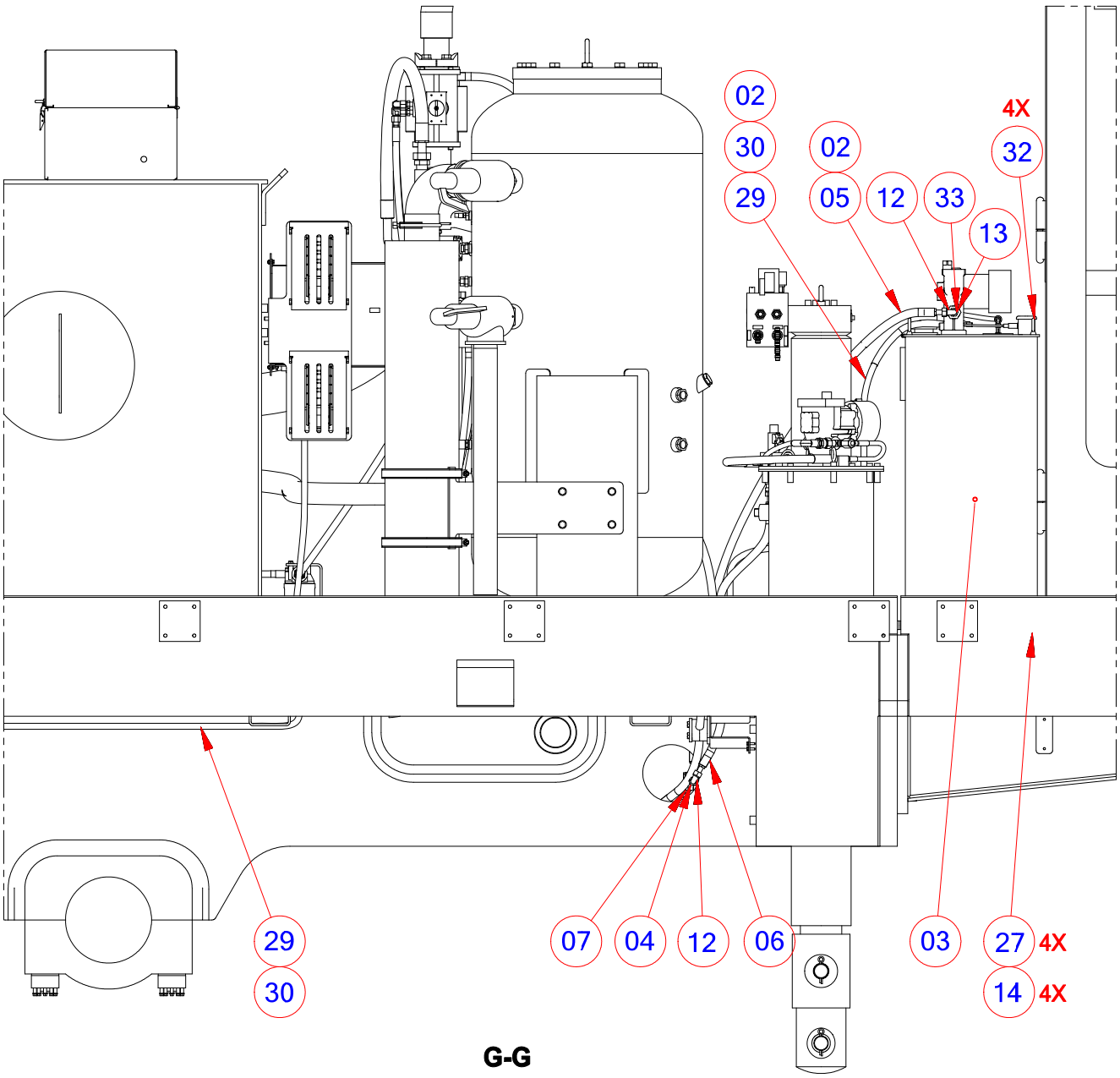
INSTALLATION, BIT LUBE



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5 OF 7

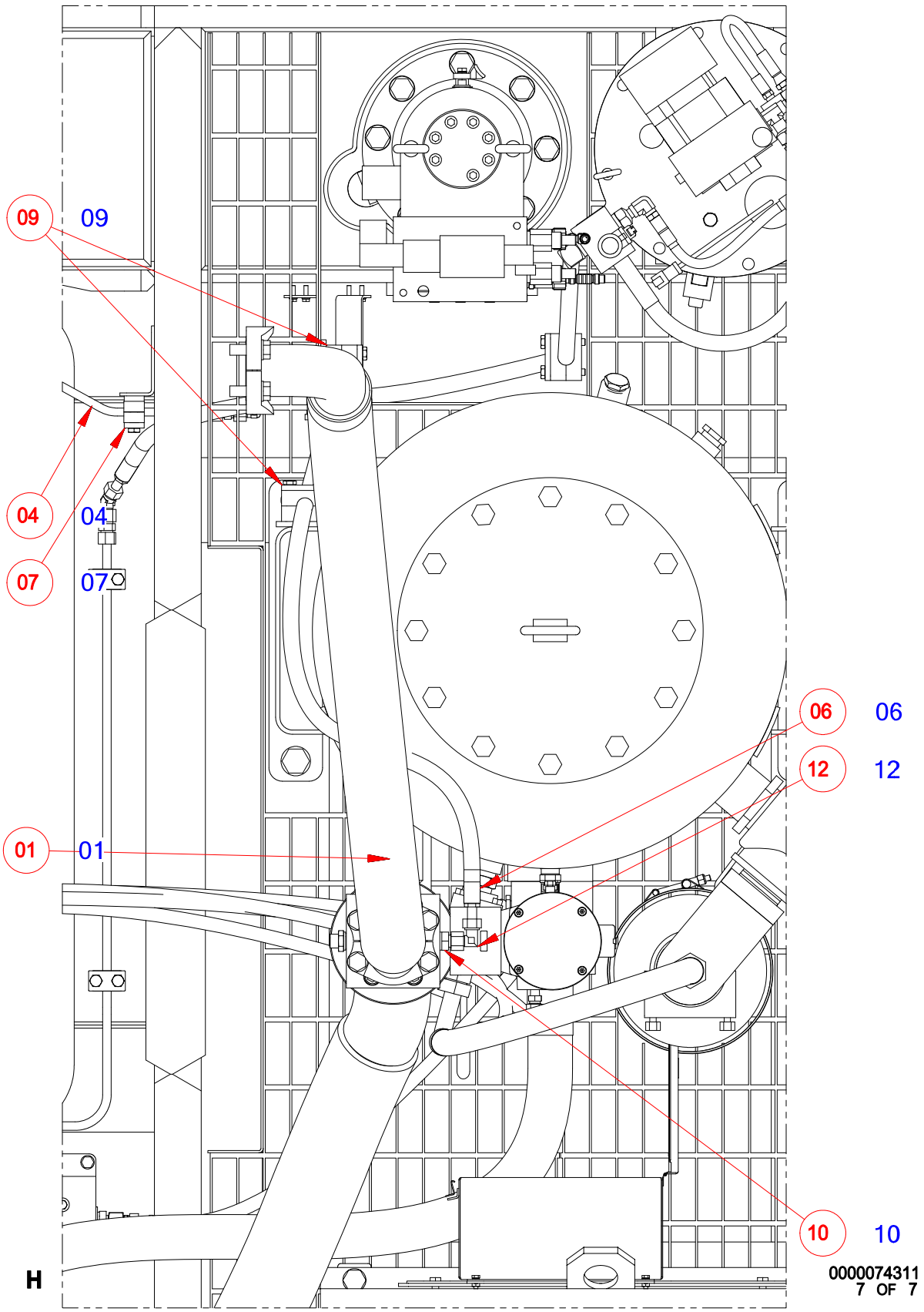
INSTALLATION, BIT LUBE



G-G

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6 OF 7

INSTALLATION, BIT LUBE

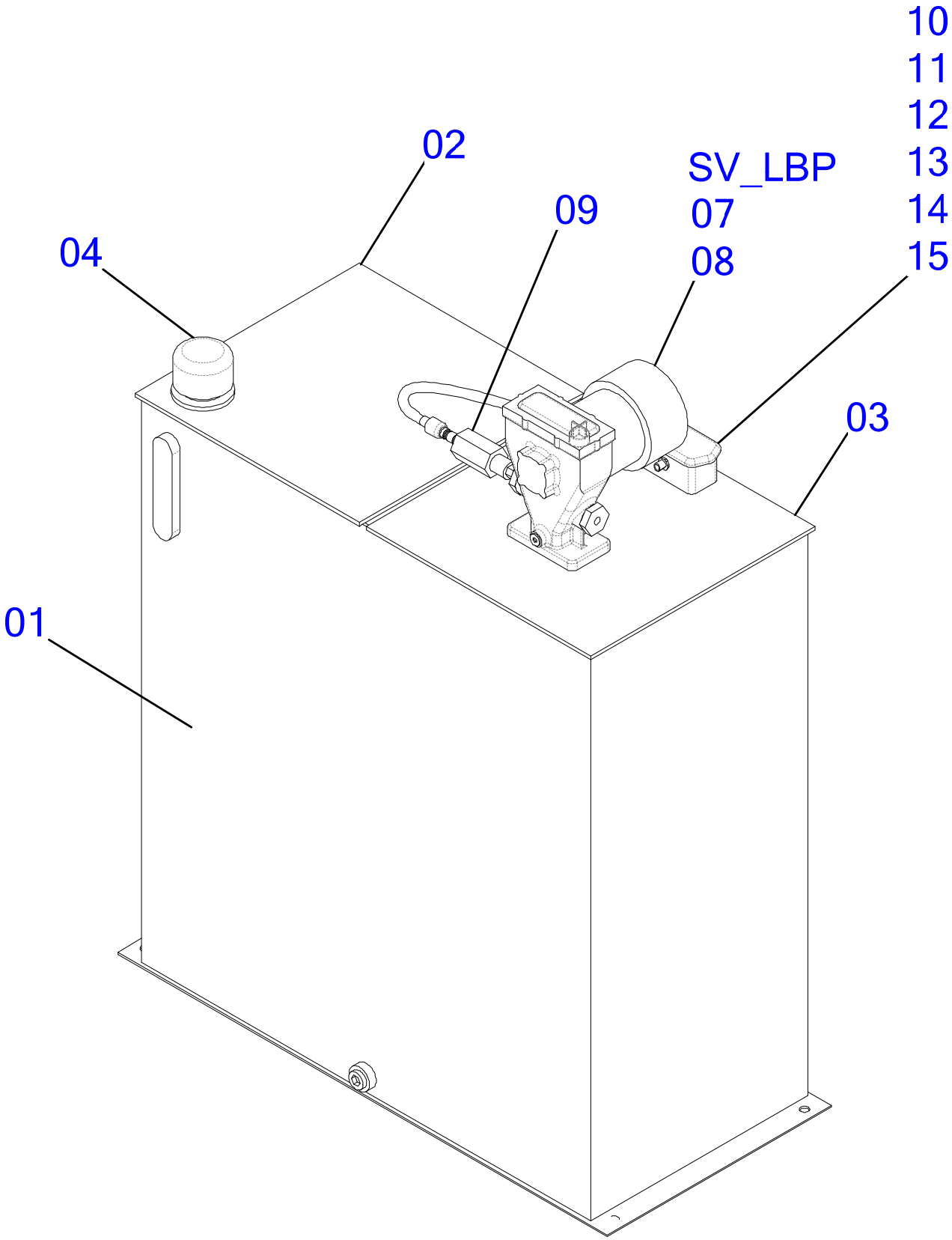


INSTALL, BIT LUBE

INSTALLATION, BIT LUBE

Item	Part No.	Description	Qty.	Unit	Page
	R100365F1	INSTALLATION, BIT LUBE			
01		▪ TRIM, Edge	1		
	3312A2913	▪ ▪ TRIM, Edge	30	Inch	
02		▪ SLEEVE	1		
	500900400	▪ ▪ SLEEVING	5	Foot	
03	R100414D1	▪ PUMP/TANK, Bit Lube, 60 Gallon	1		287
04	R101546D1	▪ TUBE ASSEMBLY	2		
05	R89780T08M20D180	▪ HOSE ASSEMBLY	1		
06	R89780T08M20D265	▪ HOSE ASSEMBLY	1		
07	R78952D5	▪ CLAMP	5		
08	R78952D12	▪ CLAMP	2		
09	R78953D17	▪ CLAMP	3		
10	R89792D6	▪ CONNECTOR	1		
11	R89770D2	▪ UNION	3		
12	R89793D2	▪ ELBOW	4		
13	R89779D5	▪ CONNECTOR	1		
14	0825M12035	▪ BOLT, Hex Head	4		
15	R91485D1	▪ Y-SPLITTER, CAN	1		
16	2419V164	▪ NIPPLE	1		
17	36Q511D4	▪ BALL VALVE, Locking	1		
18	2414V005	▪ ELBOW, Pipe	1		
19	2419V140	▪ NIPPLE, Pipe	1		
20	2419V135	▪ NIPPLE, Pipe	1		
21	44Z597D12	▪ CONNECTOR, Pipe	2		
22	R81814T12D18	▪ HOSE ASSEMBLY	1		
23	32Z423D25	▪ CLAMP, Insulated	1		
24	2422V005	▪ PLUG, Pipe	1		
25	0825M08020	▪ BOLT, Hex Hd	1		
26	7612M008	▪ WASHER, Flat	2		
27	R82264D8	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4		
28	2104M008	▪ NUT, Hex	1		
29		WIRE LIST			
30	R88249D1	▪ TIE, Wire	25		
31	R91023D1	▪ DECALS, Bit Lube	1		
32	R101049D1	▪ BOLT, Eye	4		
33	R101097D1	▪ VALVE, Check	1		

PUMP/TANK, BIT LUBE, 60 GALLON



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PUMP/TANK, BIT LUBE, 60 GALLON

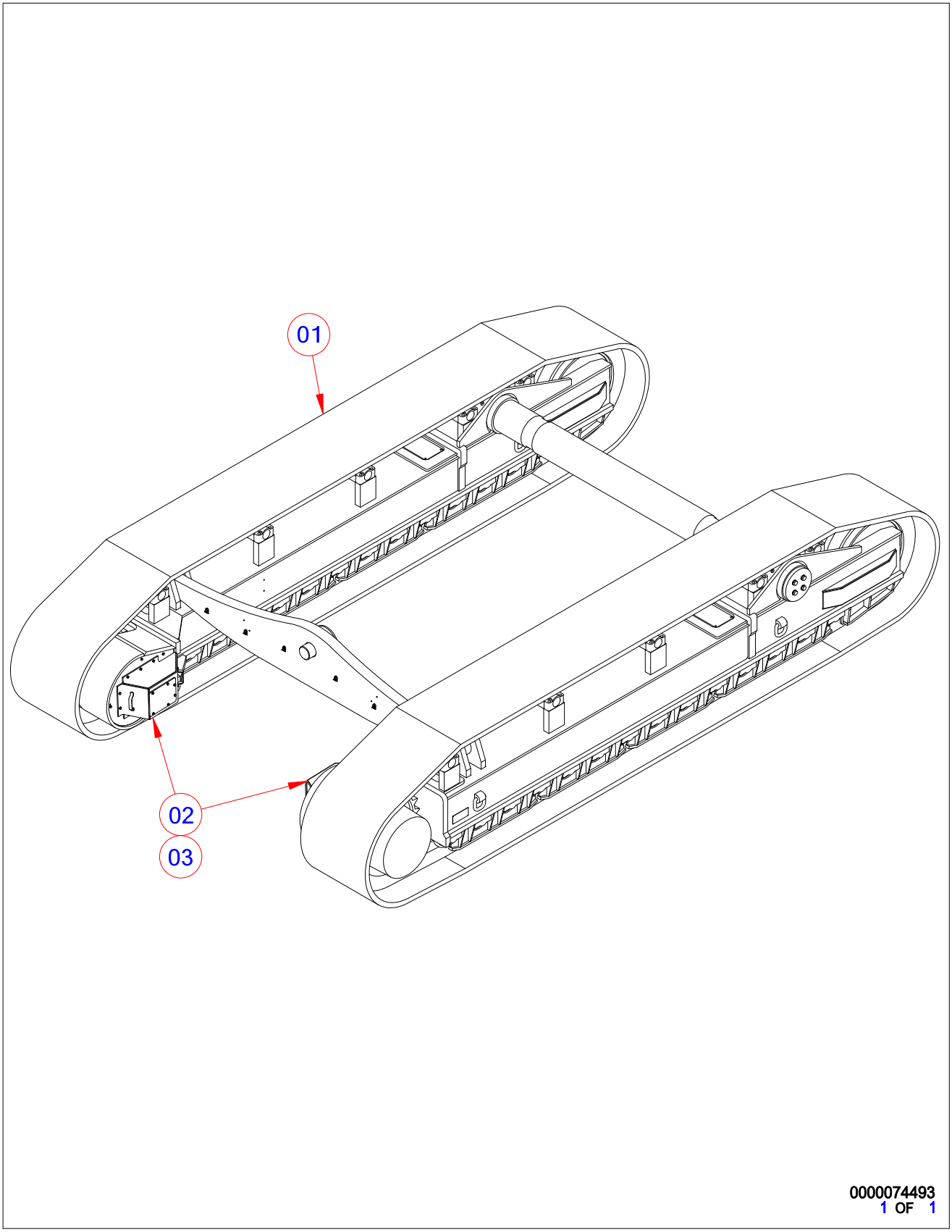
PUMP/TANK, BIT LUBE, 60 GALLON

Item	Part No.	Description	Qty.
	R100414D1	PUMP/TANK, BIT LUBE, 60 GALLON	
01	R101190D1	▪ RESERVOIR	1
02	R101191D1	▪ COVER PLATE, w/ Breather Cut Out	1
03	R101192D1	▪ COVER PLATE, w/ Pump and Sensor Cut Out	1
04	R101193D1	▪ BREATHER, Bayonet Style	1
SV_LBP	R101194D1	▪ PUMP	1
06		NOT USED	
07	R101196D1	▪ GASKET	1
08	R101197D1	▪ KIT, Pump Inlet Strainer	1
09	R101198D1	▪ VALVE, Safety Unloader	1
10	R108318D1	▪ ADAPTER, Bulkhead Straight	1
11	R108319D1	▪ CONNECTOR, Bulkhead	1
12	R108320D1	▪ TUBE, Level Sensor - 4in	1
13	R108321D1	▪ TUBE, Level Sensor - 24in	1
14	R108322D1	▪ CONNECTOR, Female	1
15	R108323D1	▪ SENSOR, Level	1

LOWER WORKS

Item	Description	Page
01	ASSEMBLY, LOWER WORKS	289
02	INSTALLATION KIT, FUEL TANK, 625 GALLONS	298
03	HYDRAULIC ROUTING, PROPEL	300
04	INSTALLATION, TRANSMISSION MONITORING	305

ASSEMBLY, LOWER WORKS

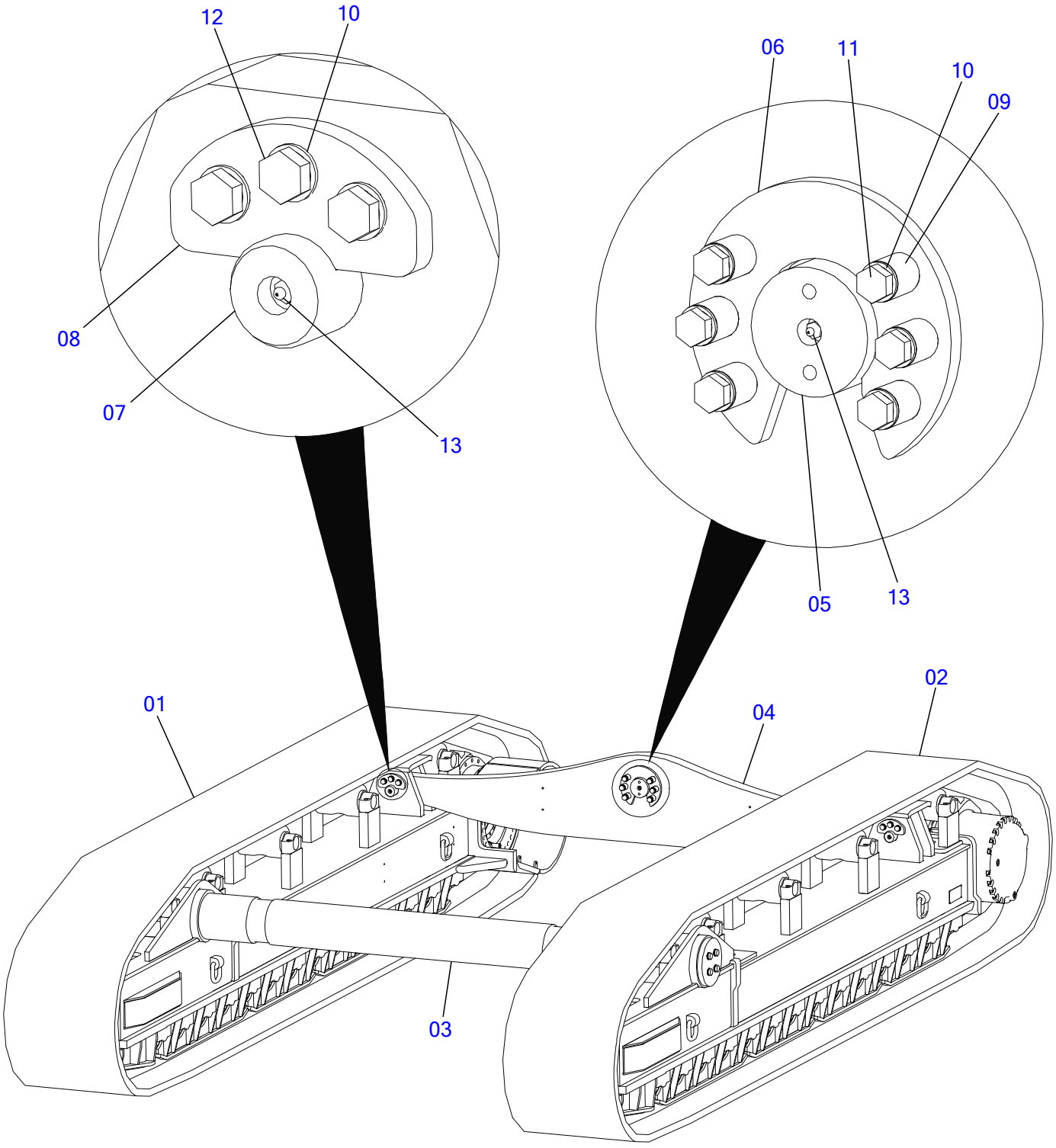


ASSEMBLY, LOWER WORKS

ASSEMBLY, LOWER WORKS

Item	Part No.	Description	Qty.	Page
	R89738F1	ASSEMBLY, LOWER WORKS		
01	R90239F1	・CRAWLER ASSEMBLY, Lower Works	1	290
02	R89798F1	・INSTALLATION, Propel Motors	1	294
03	R90248F1	・ELECTRICAL ASSEMBLY, Lower Works	1	297

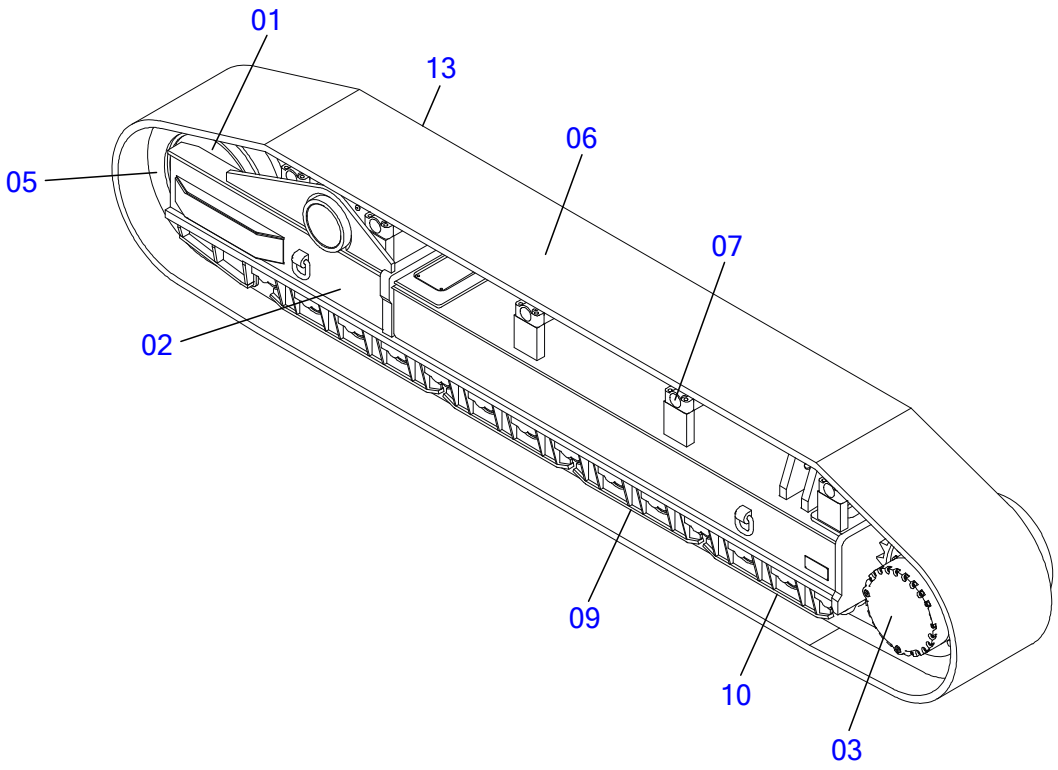
CRAWLER ASSEMBLY, LOWER WORKS (MODIFIED)

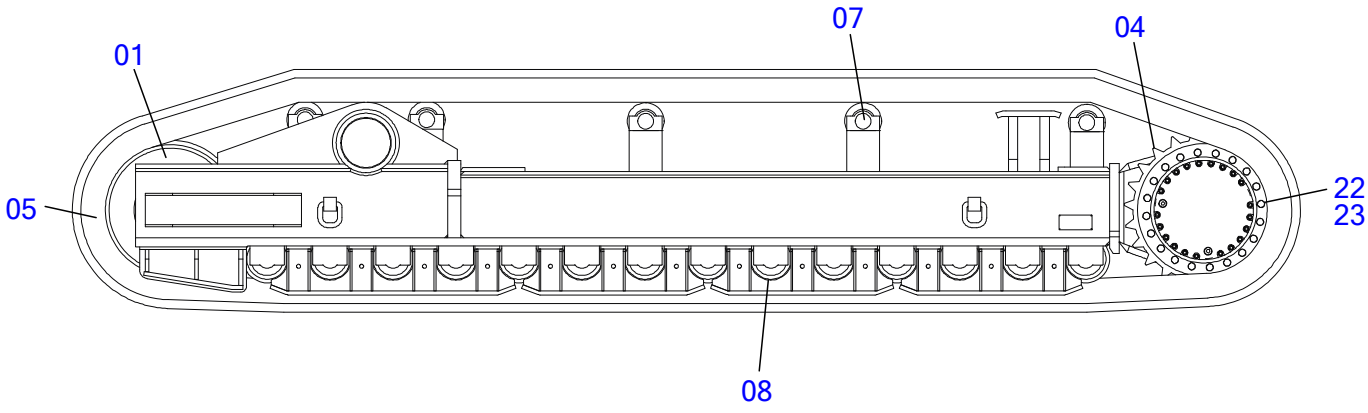


CRAWLER ASSEMBLY, LOWER WORKS (MODIFIED)

Item	Part No.	Description	Qty.	Page
		CRAWLER ASSEMBLY, LOWER WORKS (R90239F1 Originally)		
		NOTE: This assembly has been modified by kit R9008231F1. Items 05 thru 13 are components from this kit.		
01	R90240D1	▪ CRAWLER ASSEMBLY, RH	1	291
02	R90240D2	▪ CRAWLER ASSEMBLY, LH	1	292
03	R90241F1	▪ SOLID AXLE ASSEMBLY	1	293
04	R90243D1	▪ AXLE, Equalizer	1	
05	R9008232D1	▪ PIN, Equalizer	1	
06	R9008233D1	▪ RETAINER, Equalizer Pin	1	
07	R9008242D1	▪ PIN, Equalizer Clevis	2	
08	R9008243D1	▪ RETAINER, Equalizer Clevis Pin	2	
09	R107799D20040	▪ SPACER, Bolt	6	
10	3648M020	▪ WASHER, Hardened Flat, Metric	12	
11	0825M20100	▪ BOLT, Hex Hd	6	
12	0825M20060	▪ BOLT, Hex Hd	6	
13	44Z1D14	▪ FITTING, Lube		
14	R21Z570D4	▪ COMPOUND, Anti-Seize (Not Shown)	1	

CRAWLER ASSEMBLY, RIGHT SIDE



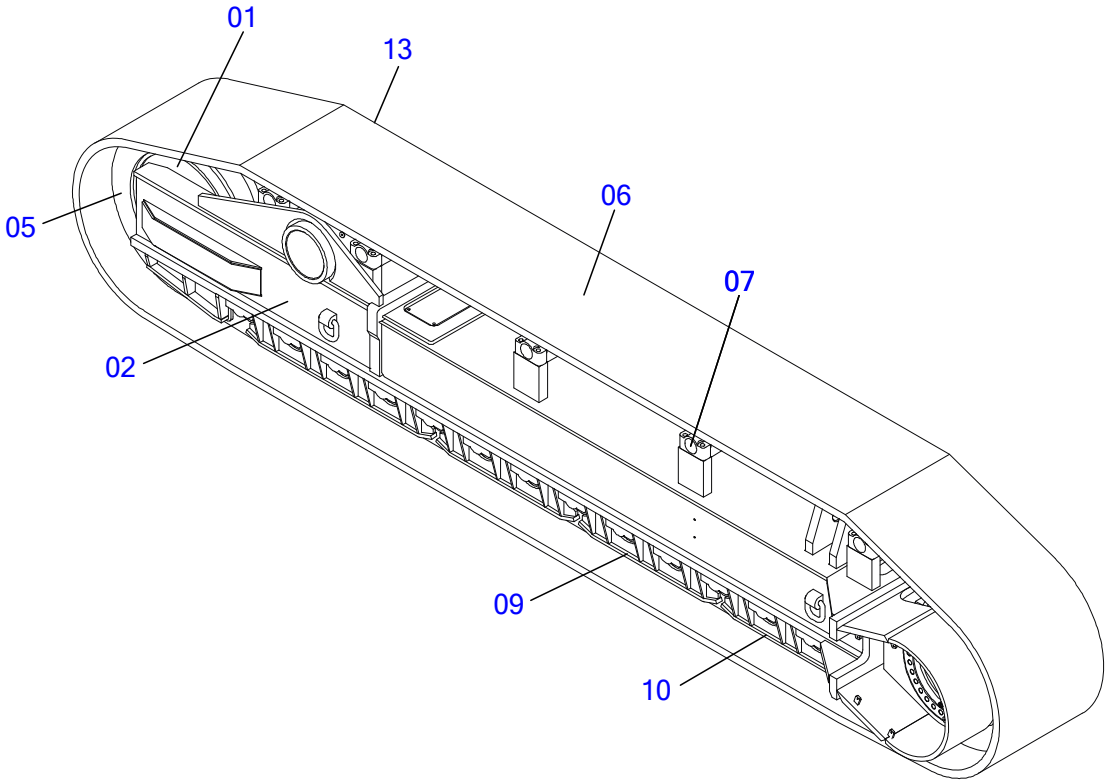


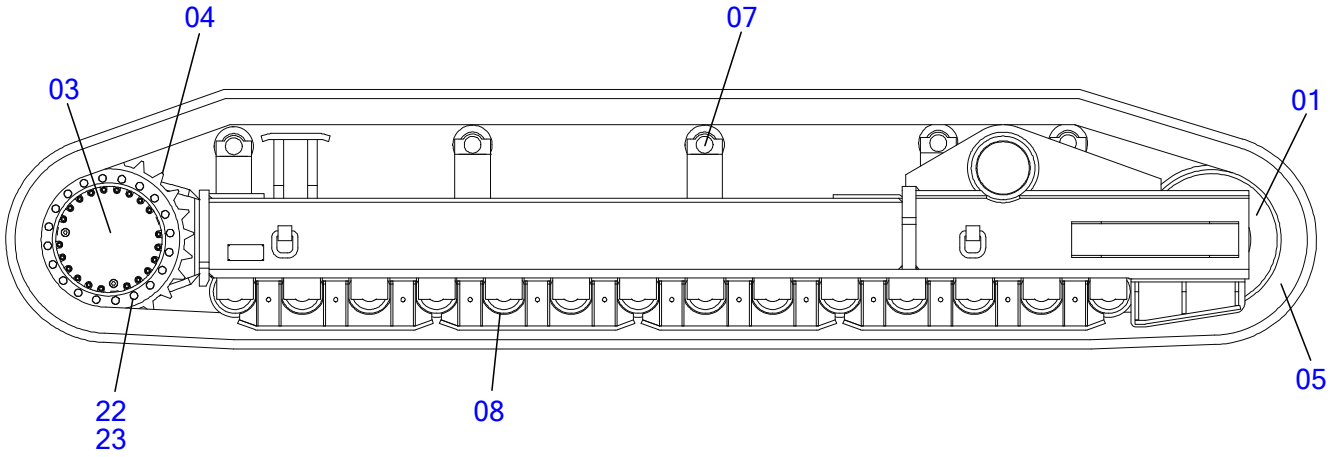
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CRAWLER ASSEMBLY, RIGHT SIDE

Item	Part No.	Description	Qty.
	R90240D1	CRAWLER ASSEMBLY, RIGHT SIDE	
01	R91501D1	▪ IDLER, Crawler	1
02	R91502D1	▪ PISTON, Crawler	1
03	R91505D1	▪ TRANSMISSION, Crawler	1
04	R91506D1	▪ TUMBLER, Crawler	1
05	R91503D1	▪ REBUILD KIT, Crawler Chain Assembly (This is an assemly of Item 16)	1
06	R91504D1	▪ SHOE, Crawler	61
07	R91507D1	▪ UPPER ROLLER, Crawler	5
08	R91507D2	▪ LOWER ROLLER, Crawler	14
09	R91508D1	▪ ROCK GUARD, Roller, Short	6
10	R91508D2	▪ ROCK GUARD, Roller, Long	2
11-12		NOT USED	
13	R90247D1	▪ REBUILD KIT, Crawler Chain Assembly (This is an assembly of Items 5, 6, 14 and 15)	1
14	R115177D1	▪ BOLT, Track, M24 x 1.5	244
15	R115178D1	▪ NUT, Track, M24 x 1.5	244
16	R9004995D1	▪ LINK ASSEMBLY, Chain	61
17	R9005001D1	▪ YOKE, Idler	1
18	R9005000D1	▪ VALVE, Tensioner	1
19	R9004999D1	▪ COVER, Motor	1
20	R9004998D1	▪ COVER, Valve	1
21	R9004997D1	▪ SPACER, Roller	13
22	R82264D24	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	20
23	0825M24070	▪ BOLT, Hex Head	20

CRAWLER ASSEMBLY, LEFT SIDE





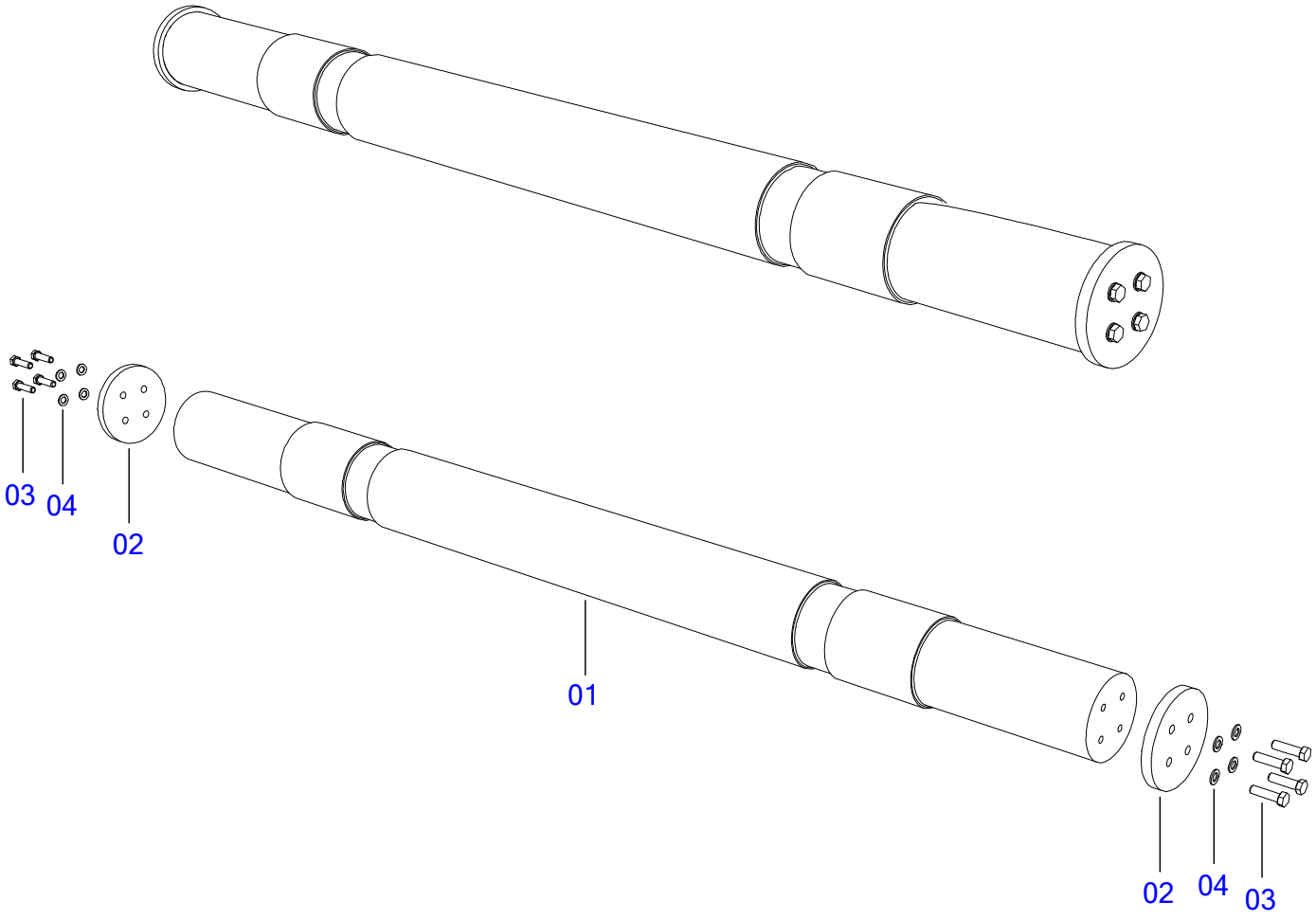
0000084632

CRAWLER ASSEMBLY, RIGHT SIDE

CRAWLER ASSEMBLY, LEFT SIDE

Item	Part No.	Description	Qty.
	R90240D2	CRAWLER ASSEMBLY, LEFT SIDE	
01	R91501D1	▪ IDLER, Crawler	1
02	R91502D1	▪ PISTON, Crawler	1
03	R91505D1	▪ TRANSMISSION, Crawler	1
04	R91506D1	▪ TUMBLER, Crawler	1
05	R91503D1	▪ REBUILD KIT, Crawler Chain Assembly (This is an assemly of Item 16)	1
06	R91504D1	▪ SHOE, Crawler	61
07	R91507D1	▪ UPPER ROLLER, Crawler	5
08	R91507D2	▪ LOWER ROLLER, Crawler	14
09	R91508D1	▪ ROCK GUARD, Roller, Short	6
10	R91508D2	▪ ROCK GUARD, Roller, Long	2
11-12		NOT USED	
13	R90247D1	▪ REBUILD KIT, Crawler Chain Assembly (This is an assembly of Items 5, 6, 14 and 15)	1
14	R115177D1	▪ BOLT, Track, M24 x 1.5	244
15	R115178D1	▪ NUT, Track, M24 x 1.5	244
16	R9004995D1	▪ LINK ASSEMBLY, Chain	61
17	R9005001D1	▪ YOKE, Idler	1
18	R9005000D1	▪ VALVE, Tensioner	1
19	R9004999D1	▪ COVER, Motor	1
20	R9004998D1	▪ COVER, Valve	1
21	R9004997D1	▪ SPACER, Roller	13
22	R82264D24	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	20
23	0825M24070	▪ BOLT, Hex Head	20

SOLID AXLE ASSEMBLY

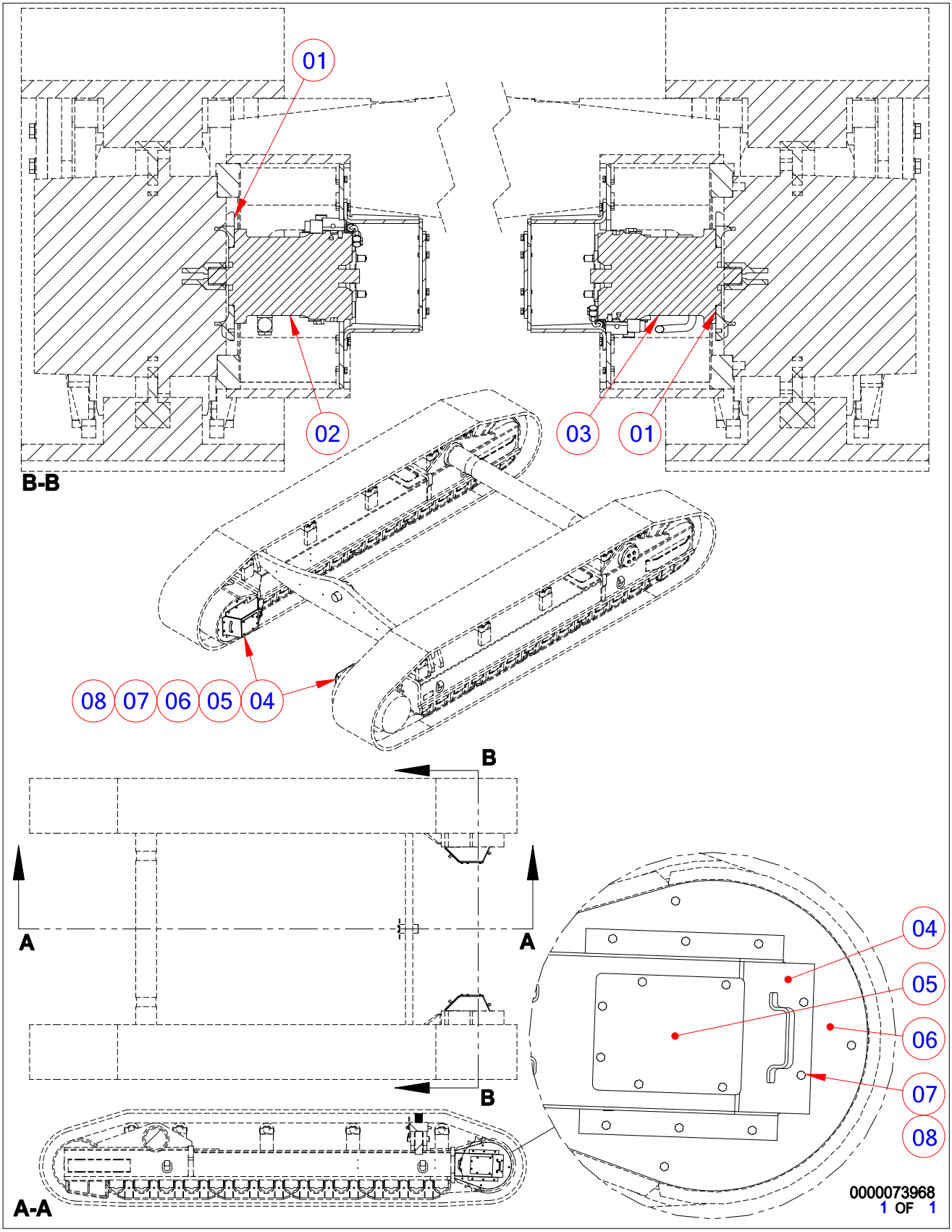


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SOLID AXLE ASSEMBLY

Item	Part No.	Description	Qty.
	R90241F1	SOLID AXLE ASSEMBLY	
01	R90242D1	▪ SOLID AXLE	1
02	R90244D1	▪ CAP, Solid Axle	2
03	0825M24090	▪ BOLT, Hex Hd	8
04	3612M024	▪ WASHER, Plain	8

PROPEL MOTORS INSTALLATION

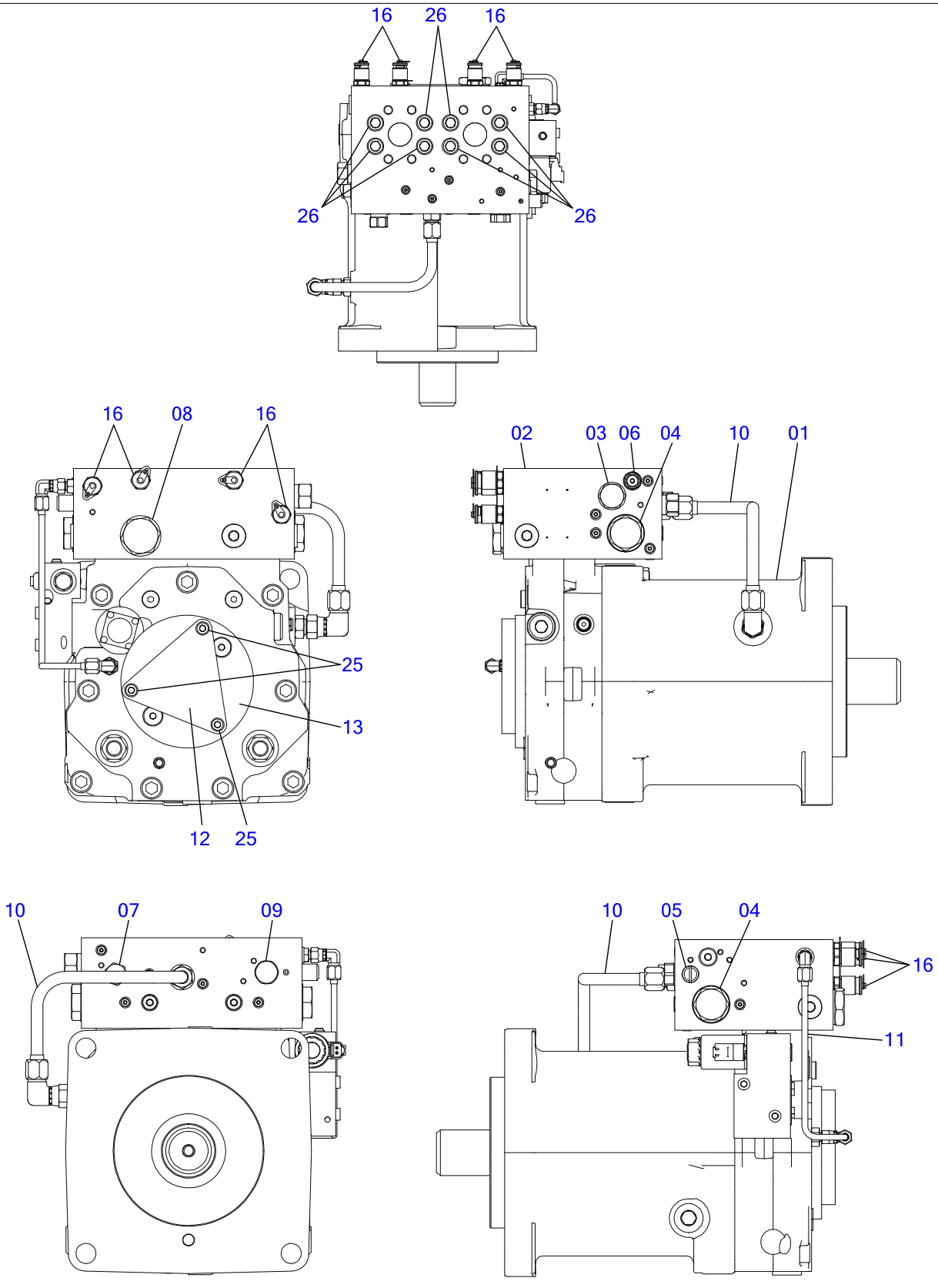


INSTALL, PROPEL MOTORS

PROPEL MOTORS INSTALLATION

Item	Part No.	Description	Qty.	Page
	R89798F1	PROPEL MOTORS INSTALLATION		
01	R89811D1	▪ ADAPTER KIT, Track Drive	2	
01A	R89811D2	▪ ▪ PLATE, Adapter	1	
01B	R89811D3	▪ ▪ ADAPTER, Shaft	1	
02	R89807D2	▪ MOTOR ASSEMBLY, Axially Hydraulic - RH	1	295
03	R89807D3	▪ MOTOR ASSEMBLY, Axially Hydraulic - LH	1	296
04	R90990D1	▪ MOTOR COVER	2	
05	R90991D1	▪ COVER, Motor Cover Port	2	
06	R90992D1	▪ COVER, Motor Plate	2	
07	0825M10025	▪ BOLT, Hex Hd	38	
08	R82264D6	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	38	

MOTOR ASSEMBLY, AXIAL HYDRAULIC, 210CC, RH



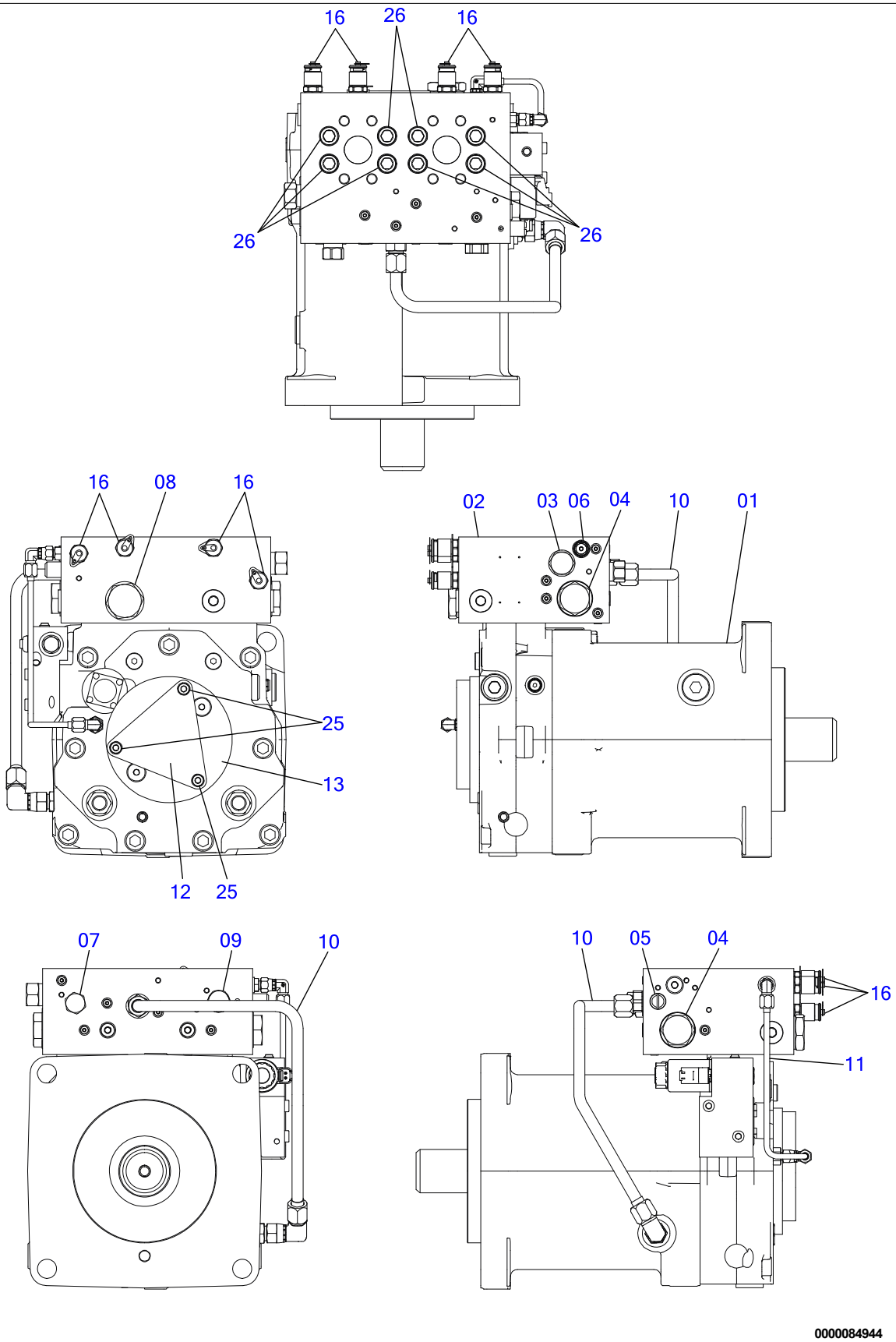
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MOTOR ASSEMBLY, AXIAL HYDRAULIC, RH

MOTOR ASSEMBLY, AXIAL HYDRAULIC, 210CC, RH

Item	Part No.	Description	Qty.
	R89807D2	MOTOR ASSEMBLY, AXIAL HYDRAULIC, 210CC, RH	
01	R91104D1	▪ MOTOR, Axial Hydraulic, 210cc	1
02	R89808D2	▪ MANIFOLD ASSEMBLY, Propel Motor	1
03	R9006068D1	▪ VALVE, Cartridge, Hot Oil Shuttle	1
04	R9006070D1	▪ VALVE, Relief	2
05	R9006034D1	▪ VALVE, Pressure Reducing	1
06	R9006067D1	▪ VALVE, Cartridge, Charge Relief	1
07	R9006077D1	▪ VALVE, Cartridge, Flow Control	1
08	R9006078D1	▪ PLUG, Cavity	1
09	R9006071D1	▪ PLUG, Hydraulic	1
10	R9006092D1	▪ KIT, Pilot Tubing, 12mm	1
11	R9006091D1	▪ KIT, Pilot Tubing, 6mm	1
12	R9006087D1	▪ COVER, Encoder Mount	1
13	R9006086D1	▪ ADAPTER, Encoder Mounting	1
14	R9006085D1	▪ KIT, Seal (Not Shown)	1
15	R9006084D1	▪ SOLENOID, Valve (Not Shown)	1
16	R9005943D1	▪ FITTING, Test Point	4
17	R9006089D1	▪ SPRING PIN (Not Shown)	2
18	R9006088D1	▪ O-RING, 80 DURO Viton (Not Shown)	1
19	45Z91D229	▪ O-RING (Not Shown)	1
20	45Z91D138	▪ O-RING (Not Shown)	1
21	45Z91D218	▪ O-RING (Not Shown)	1
22	45Z91D59	▪ O-RING (Not Shown)	2
23	R9006090D1	▪ SCREW, Flat Hd Cap - Metric (Not Shown)	2
24	0830M12025	▪ SCREW, Socket Hd (Not Shown)	8
25	0830M08020	▪ SCREW, Socket Hd	3
26	R9011678D1	▪ SCREW, Socket Hd Cap	8

MOTOR ASSEMBLY, AXIAL HYDRAULIC, 210CC, LH



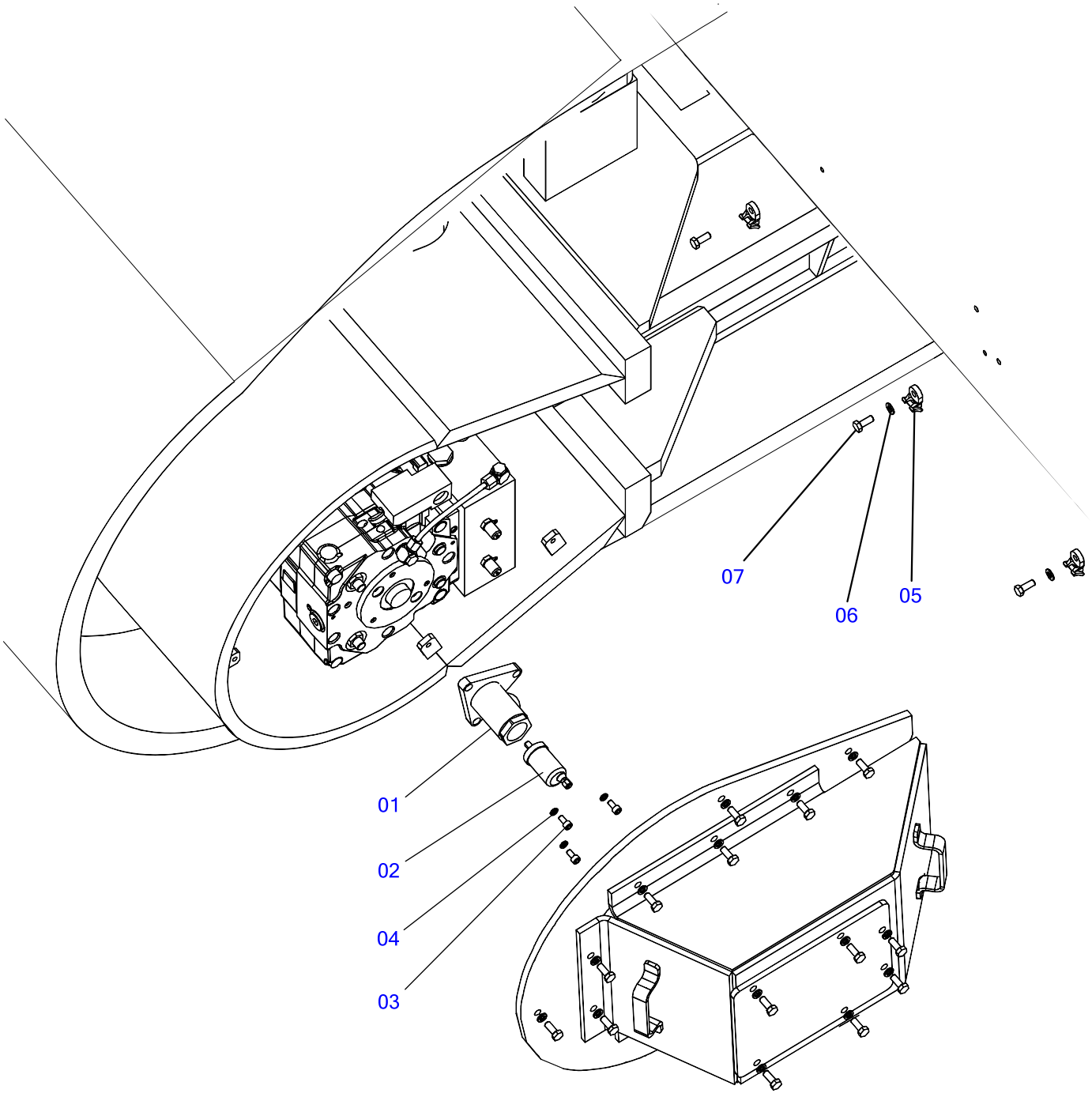
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MOTOR ASSEMBLY, AXIAL HYDRAULIC, LH

MOTOR ASSEMBLY, AXIAL HYDRAULIC, 210CC, LH

Item	Part No.	Description	Qty.
	R89807D3	MOTOR ASSEMBLY, AXIAL HYDRAULIC, 210CC, LH	
01	R91104D1	· MOTOR, Axial Hydraulic, 210cc	1
02	R89808D2	· MANIFOLD ASSEMBLY, Propel Motor	1
03	R9006068D1	· VALVE, Cartridge, Hot Oil Shuttle	1
04	R9006070D1	· VALVE, Relief	2
05	R9006034D1	· VALVE, Pressure Reducing	1
06	R9006067D1	· VALVE, Cartridge, Charge Relief	1
07	R9006077D1	· VALVE, Cartridge, Flow Control	1
08	R9006078D1	· PLUG, Cavity	1
09	R9006071D1	· PLUG, Hydraulic	1
10	R9006536D1	· KIT, Pilot Tubing, 12mm	1
11	R9006091D1	· KIT, Pilot Tubing, 6mm	1
12	R9006087D1	· COVER, Encoder Mount	1
13	R9006086D1	· ADAPTER, Encoder Mounting	1
14	R9006085D1	· KIT, Seal (Not Shown)	1
15	R9006084D1	· SOLENOID, Valve (Not Shown)	1
16	R9005943D1	· FITTING, Test Point	4
17	R9006089D1	· SPRING PIN (Not Shown)	2
18	R9006088D1	· O-RING, 80 DURO Viton (Not Shown)	1
19	45Z91D229	· O-RING (Not Shown)	1
20	45Z91D138	· O-RING (Not Shown)	1
21	45Z91D218	· O-RING (Not Shown)	1
22	45Z91D59	· O-RING (Not Shown)	2
23	R9006090D1	· SCREW, Flat Hd Cap - Metric (Not Shown)	2
24	0830M12025	· SCREW, Socket Hd	8
25	0830M08020	· SCREW, Socket Hd	3
26	R9011678D1	· SCREW, Socket Hd	8

ELECTRICAL ASSEMBLY, LOWER WORKS

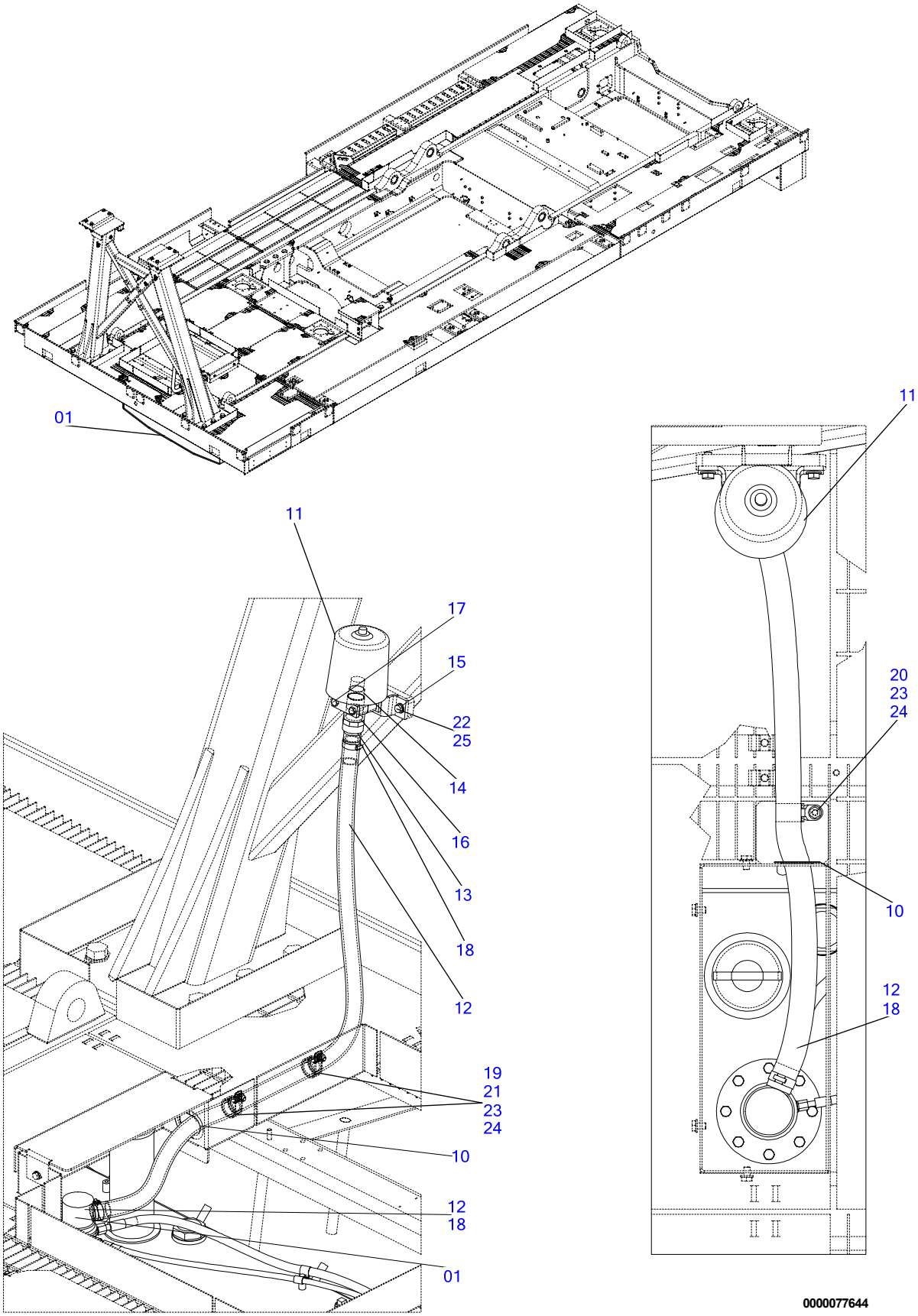


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ELECTRICAL ASSEMBLY, LOWER WORKS

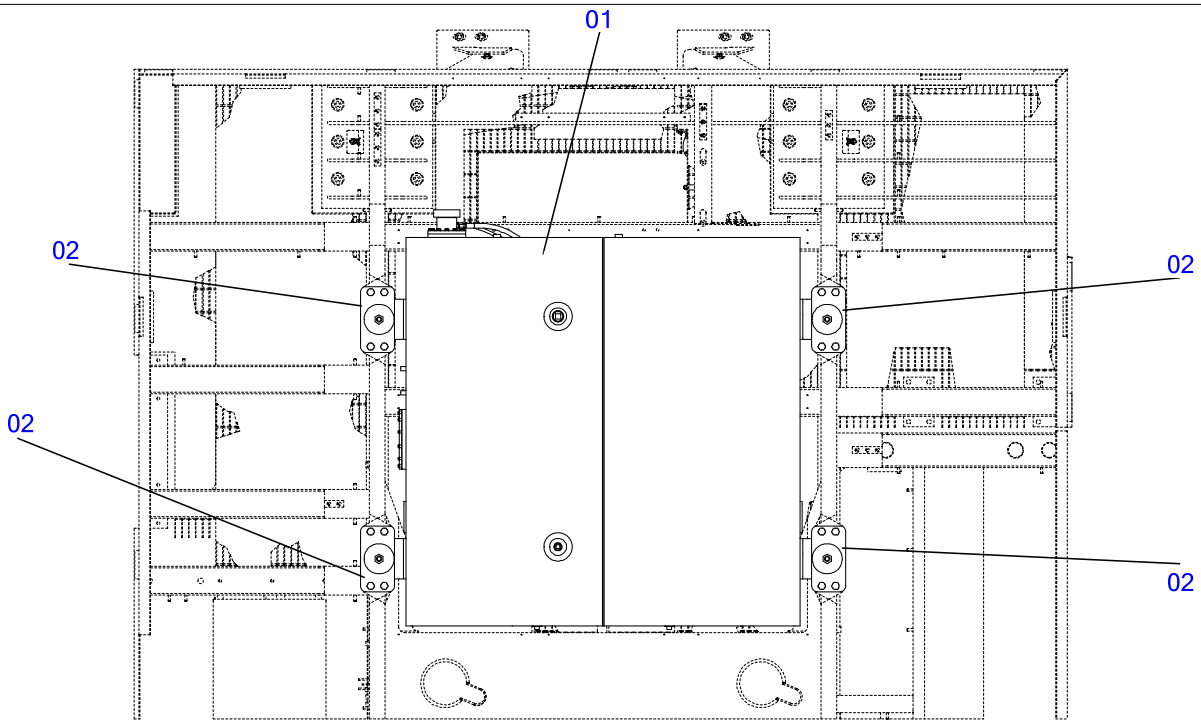
Item	Part No.	Description	Qty.
	R90248F1	ELECTRICAL ASSEMBLY, LOWER WORKS	
01	R89822D1	▪ KIT, Encoder Mount	2
02	R90546D1	▪ ENCODER, Absolute, CANopen	2
03	0830M08016	▪ SCREW, Socket Head	6
04	R82264D5	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6
05	R88247D1	▪ MOUNT, Single	6
06	3612M010	▪ WASHER, Plain	6
07	0825M10025	▪ BOLT, Hex Hd	6

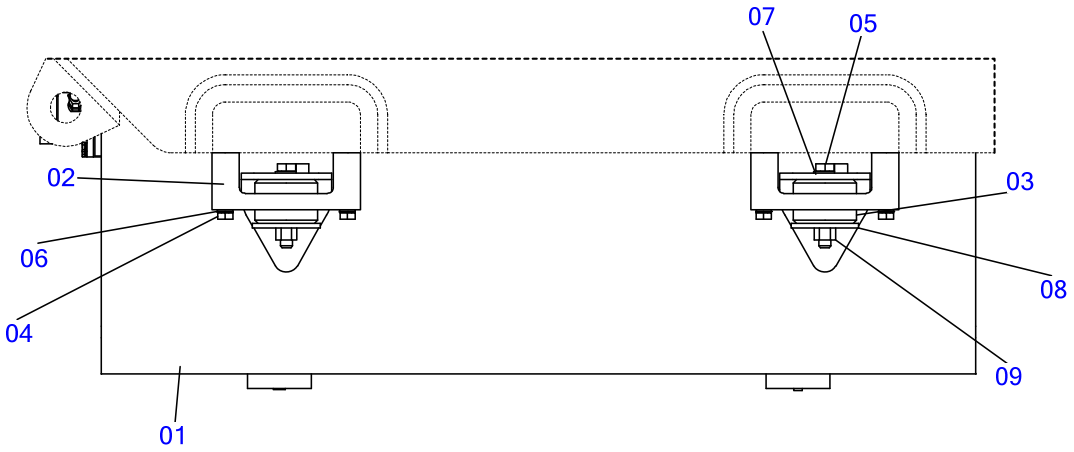
INSTALLATION KIT, FUEL TANK



INSTALLATION KIT, FUEL TANK

INSTALLATION KIT, FUEL TANK





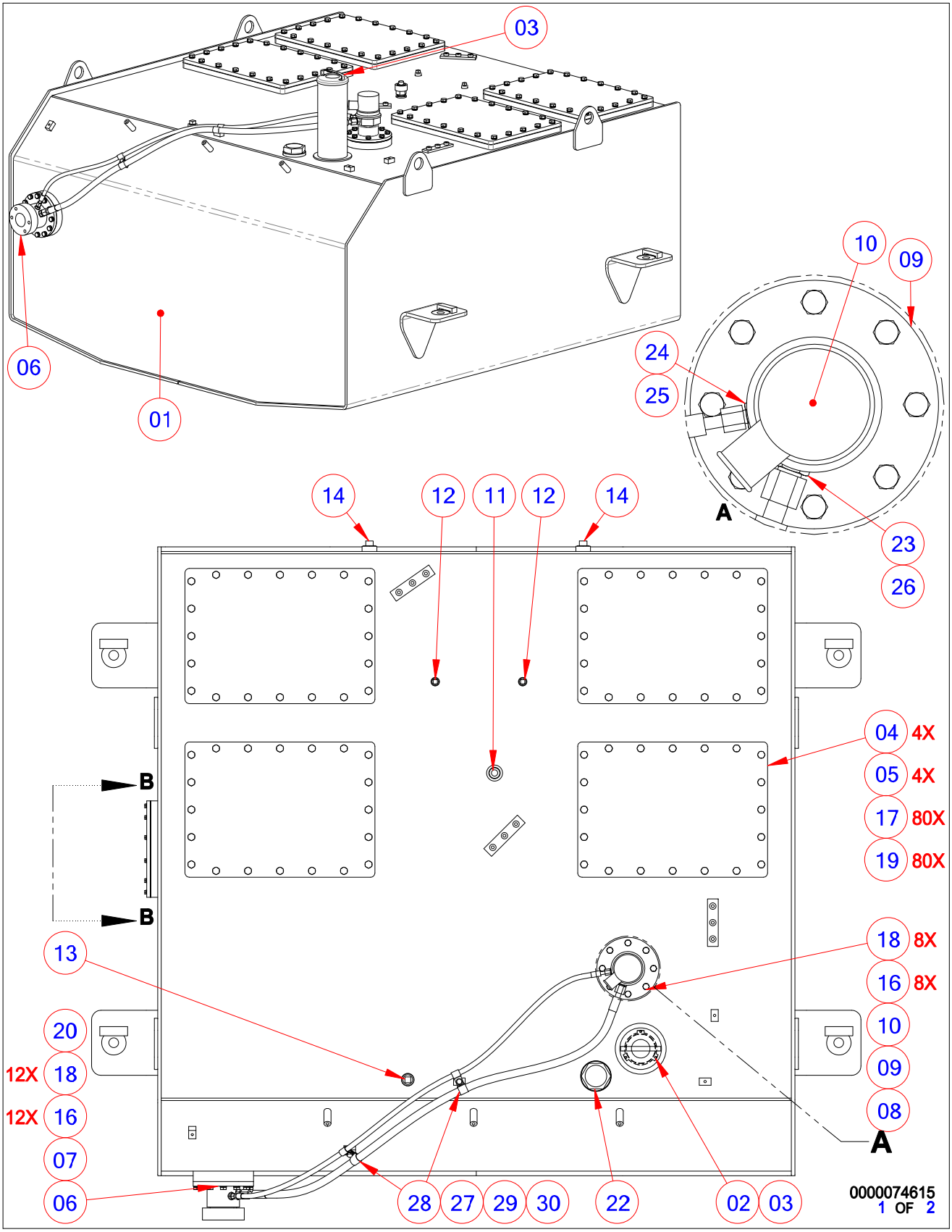
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INSTALLATION KIT, FUEL TANK

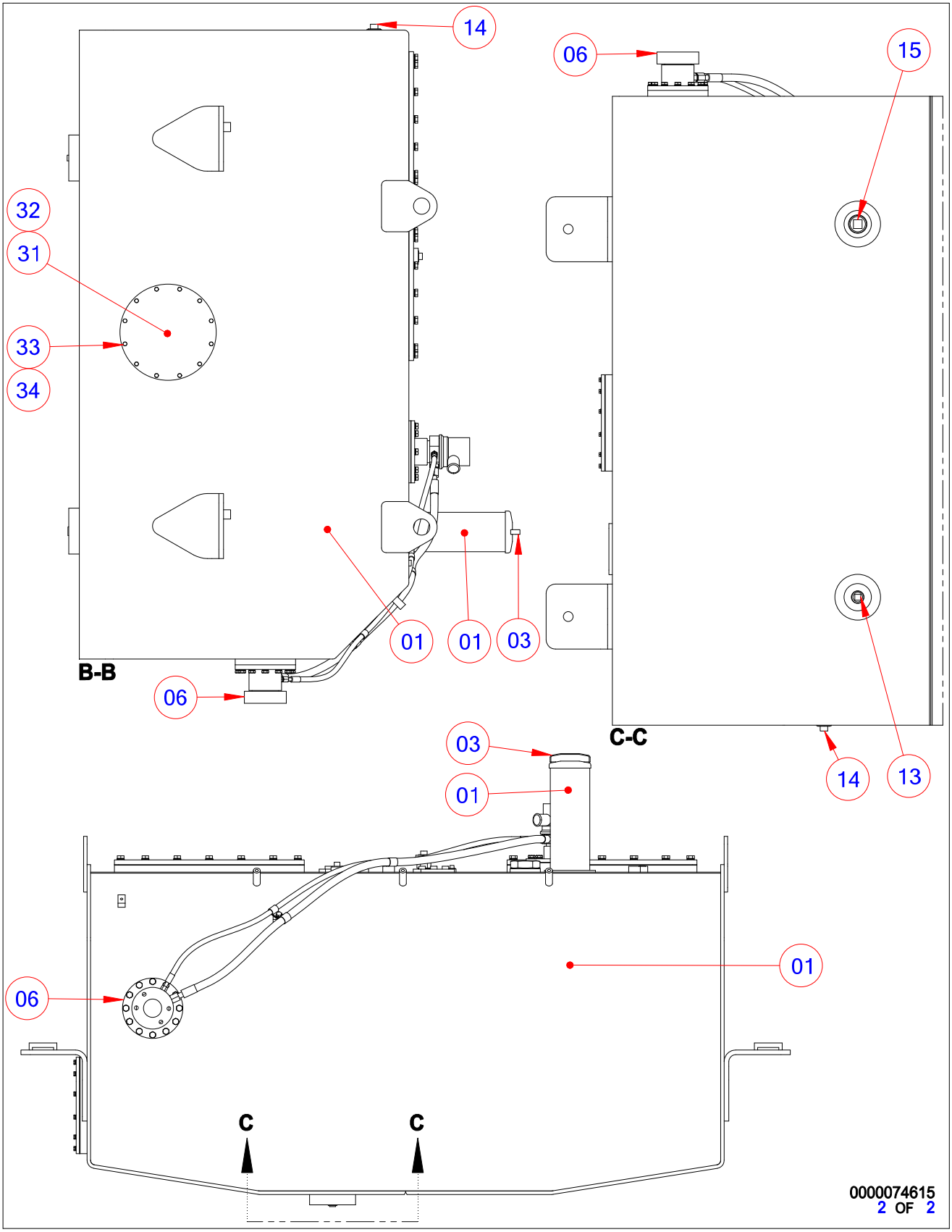
Item	Part No.	Description	Qty.	Unit	Page
	R101772F2	INSTALLATION KIT, FUEL TANK			
01	R101773F1	▪ FUEL TANK ASSEMBLY, 625 Gallon	1		299
02	R97605D1	▪ MOUNTING PLATE, Tank	4		
03	R74417D1	▪ ISOLATOR, Two Piece	4		
04	0825M20150	▪ BOLT, Hex Hd	16		
05	0825M24150	▪ BOLT, Hex Hd	4		
06	R82264D23	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	16		
07	3612M024	▪ WASHER, Plain	4		
08	R74420D1	▪ WASHER, Two Piece Isolator	4		
09	2104M024	▪ NUT, Hex	4		
--	R101772F2Y10	▪ TRIM, Edge	1		
10	3312A2911	▪ ▪ TRIM, Quickedge	9	Inch	
11	R56174D1	▪ FILTER, Vent	1		
12	R89661D70	▪ HOSE, Breather	25		
13	44Z907D6	▪ NIPPLE	1		
14	R56177D1	▪ ADAPTER	1		
15	R88758D1	▪ BRACKET, Clamp	1		
16	44Z994D7	▪ COUPLING, Pipe	1		
17	R78952D16	▪ CLAMP	1		
18	44Z12D8	▪ CLAMP	2		
19	32Z423D32	▪ CLAMP	2		
20	R88247D1	▪ MOUNT, Single	1		
21	0825M10025	▪ BOLT, Hex Hd	2		
22	0825M12035	▪ BOLT, Hex Hd	2		
23	2104M010	▪ NUT, Hex	3		
24	3648M010	▪ WASHER, Hardened	5		
25	3648M012	▪ WASHER, Hardened	2		

FUEL TANK ASSEMBLY, 625 GALLON



FUEL TANK ASSY,625 GALLON

FUEL TANK ASSEMBLY, 625 GALLON

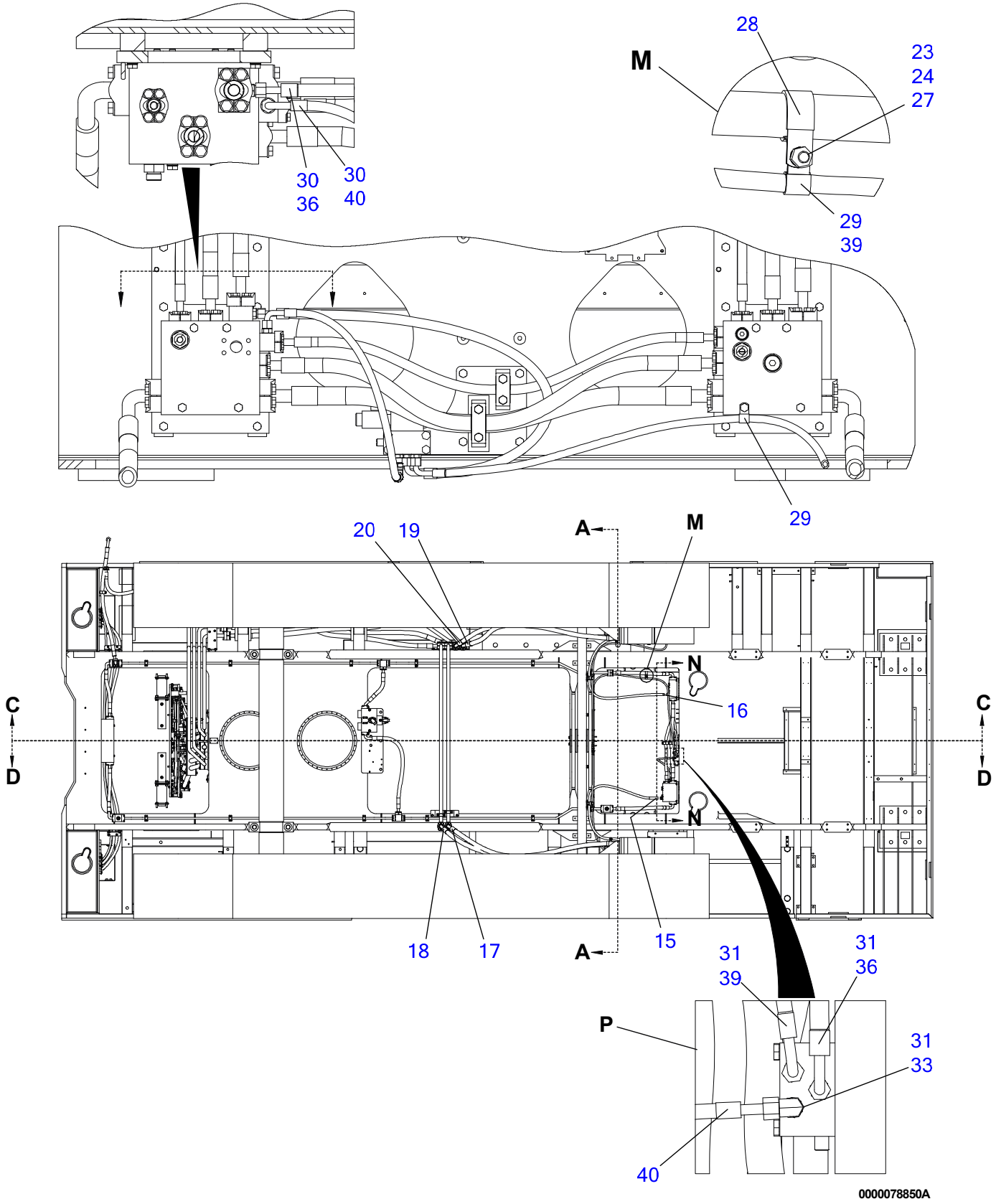


FUEL TANK ASSY,625 GALLON

FUEL TANK ASSEMBLY, 625 GALLON

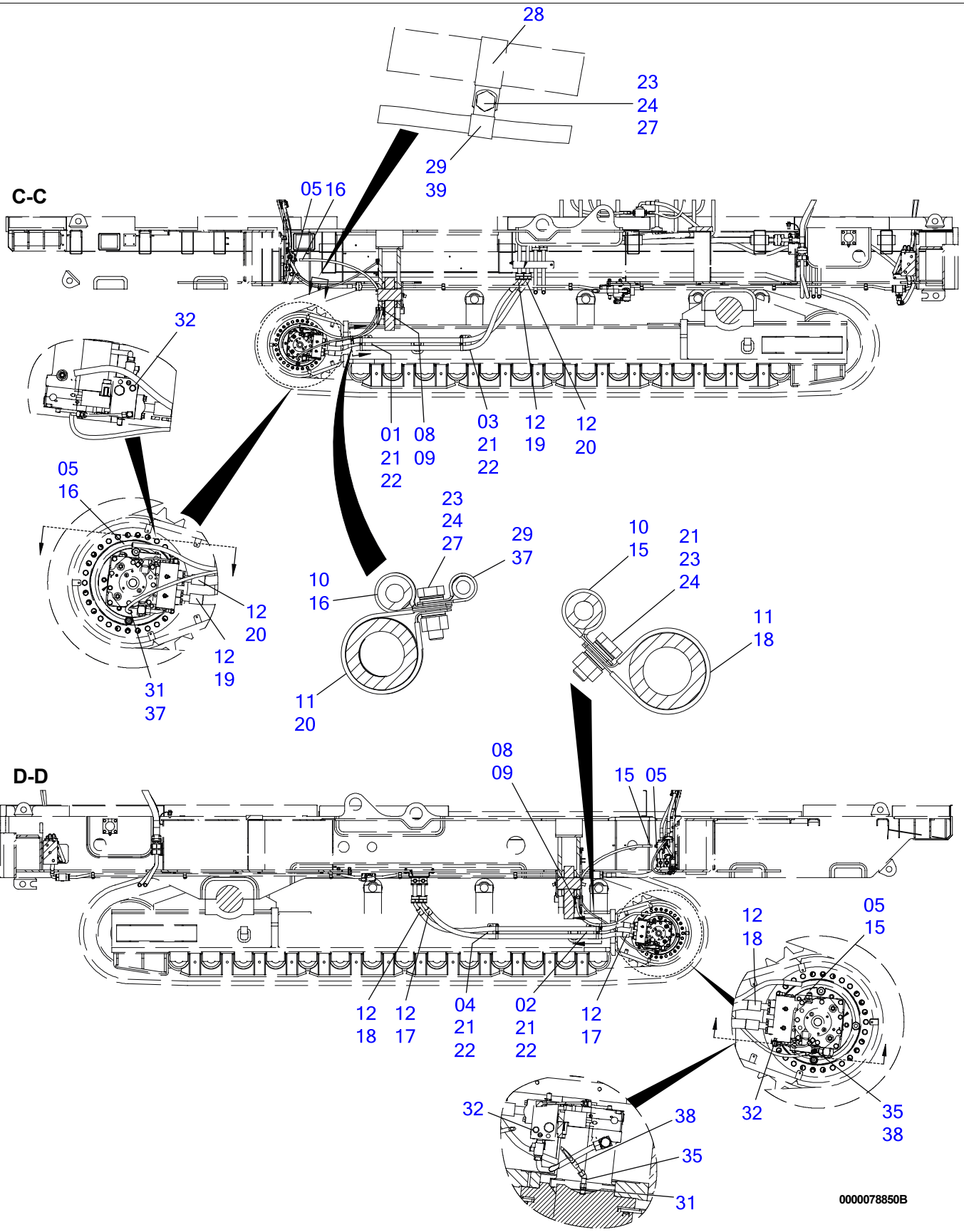
Item	Part No.	Description	Qty.
	R101773F1	FUEL TANK ASSEMBLY, 625 GALLON	
01	R101773D1	▪ FUEL TANK, 625 Gallon	1
02	R74933D1	▪ STRAINER, Fill Neck	1
03	14Z217	▪ CAP, Filter	1
04	R98669D1	▪ COVER, Inspection	4
05	R99094D1	▪ GASKET, Fuel Tank Cover	4
06	R86684D1	▪ VALVE, Automatic Shut-Off	1
07	45Z532D246	▪ O-RING	1
08	R98721D1	▪ GASKET, Fuel Vent	1
09	R98722D1	▪ ADAPTER, Fuel Vent	1
10	R86685D1	▪ VENT, Fast Fill Jet Sensor	1
LT_EFTL	R89868D850	▪ TRANSDUCER, Level	1
12	2446V003	▪ PLUG, Pipe	2
13	2446V005	▪ PLUG, Pipe	2
14	2446V006	▪ PLUG, Pipe	2
15	2446V007	▪ PLUG, Pipe (Galvanized)	1
16	0628M10035	▪ BOLT, Hex Head	20
17	0825M12030	▪ BOLT, Hex Hd	80
18	R82264D6	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	20
19	R82264D8	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	80
20	21Z926	▪ COMPOUND, Locking	1
21		NOT USED	
22	44Z536D11	▪ PLUG	1
23	44Z485D9	▪ CONNECTOR	1
24	44Z485D3	▪ CONNECTOR	1
25	R89705D52	▪ HOSE ASSEMBLY	1
26	R87741D53	▪ HOSE ASSEMBLY	1
27	32Z423D15	▪ CLAMP, Insulated	2
28	32Z423D21	▪ CLAMP	2
29	0825M08016	▪ BOLT, Hex Hd	2
30	3648M008	▪ WASHER, Hardened	2
31	R95907D1	▪ COVER, Fuel Tank	1
32	R92194D1	▪ GASKET, Cover	1
33	0825M06025	▪ BOLT, Hex Hd	12
34	R82264D19	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	12

HYDRAULIC ROUTING, PROPEL



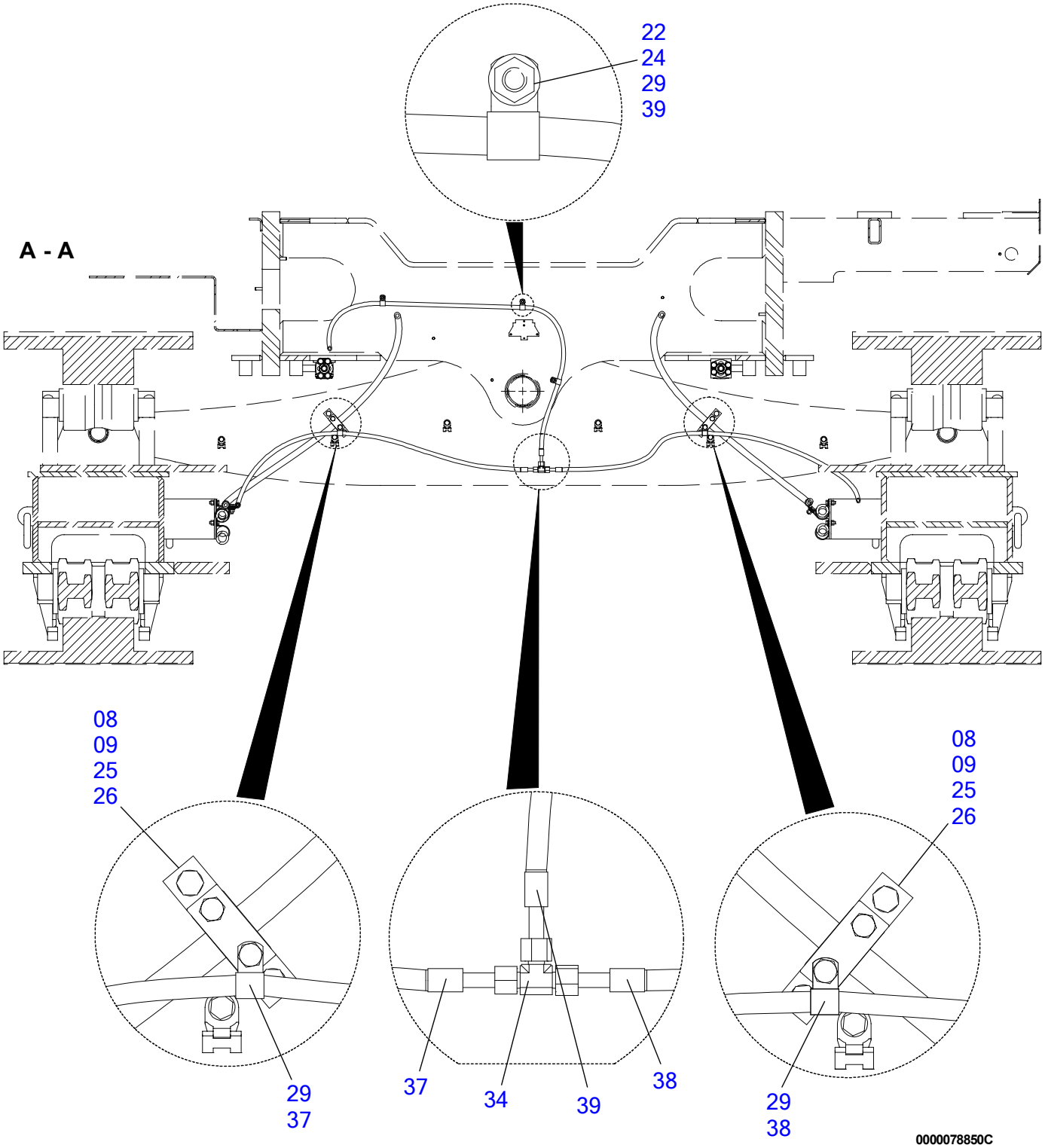
HYDRAULIC ROUTING, PROPEL - BOTTOM VIEW

HYDRAULIC ROUTING, PROPEL



SECTIONS C-C, D-D

HYDRAULIC ROUTING, PROPEL



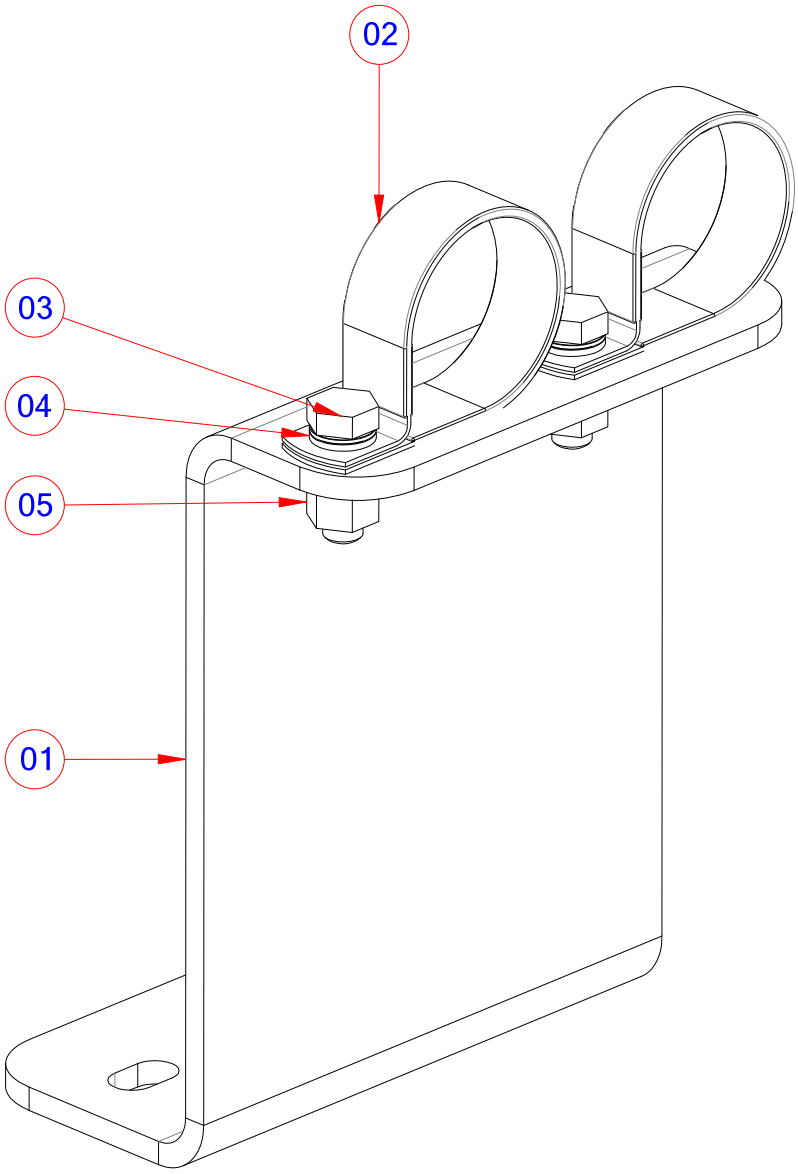
SECTION A-A

KOMATSU

HYDRAULIC ROUTING, PROPEL

Item	Part No.	Description	Qty.	Page
	R102241F1	HYDRAULIC ROUTING, PROPEL		
01	R102245F1	· CLAMP	1	301
02	R102245F2	· CLAMP	1	302
03	R102491F1	· CLAMP	1	303
04	R102491F2	· CLAMP	1	304
05	R89778D7	· CONNECTOR	4	
08	R88880D2	· BASE, Clamp	2	
09	R78953D19	· CLAMP	2	
10	32Z423D2	· CLAMP, Insulated	2	
11	32Z423D34	· CLAMP, Insulated	2	
12	R87259D4	· KIT, Split Flange	8	
15	R89782T08M24D249	· HOSE ASSEMBLY	1	
16	R89782T08M24D260	· HOSE ASSEMBLY	1	
17	R89787T20D251	· HOSE ASSEMBLY	1	
18	R89787T20D260	· HOSE ASSEMBLY	1	
19	R89787T20D258	· HOSE ASSEMBLY	1	
20	R89787T20D255	· HOSE ASSEMBLY	1	
21	0825M10025	· BOLT, Hex Hd	9	
22	R86393D8	· WASHER, Nord Lock	11	
23	R82264D20	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6	
24	2104M010	· NUT, Hex	6	
25	0825M12025	· BOLT, Hex Hd	4	
26	R82264D21	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4	
27	0825M10030	· BOLT, Hex Hd	2	
28	32Z423D30	· CLAMP, Insulated	1	
29	32Z423D6	· CLAMP, Insulated	10	
30	44Z2574D2	· CONNECTOR, Reducing	2	
31	R87378D5	· ADAPTER	5	
32	R97481D1	· PLUG, Hex	2	
33	44Z2582D2	· ELBOW, 90 Degree	1	
34	44Z2591D2	· TEE ADAPTER	1	
35	R59492D2	· FITTING	1	
36	R81818T06D42	· HOSE ASSEMBLY	1	
37	R81800T06D99	· HOSE ASSEMBLY	1	
38	R81800T06D86	· HOSE ASSEMBLY	1	
39	R81802T06D128	· HOSE ASSEMBLY	1	
40	R81802T06D27	· HOSE ASSEMBLY	1	

CLAMP



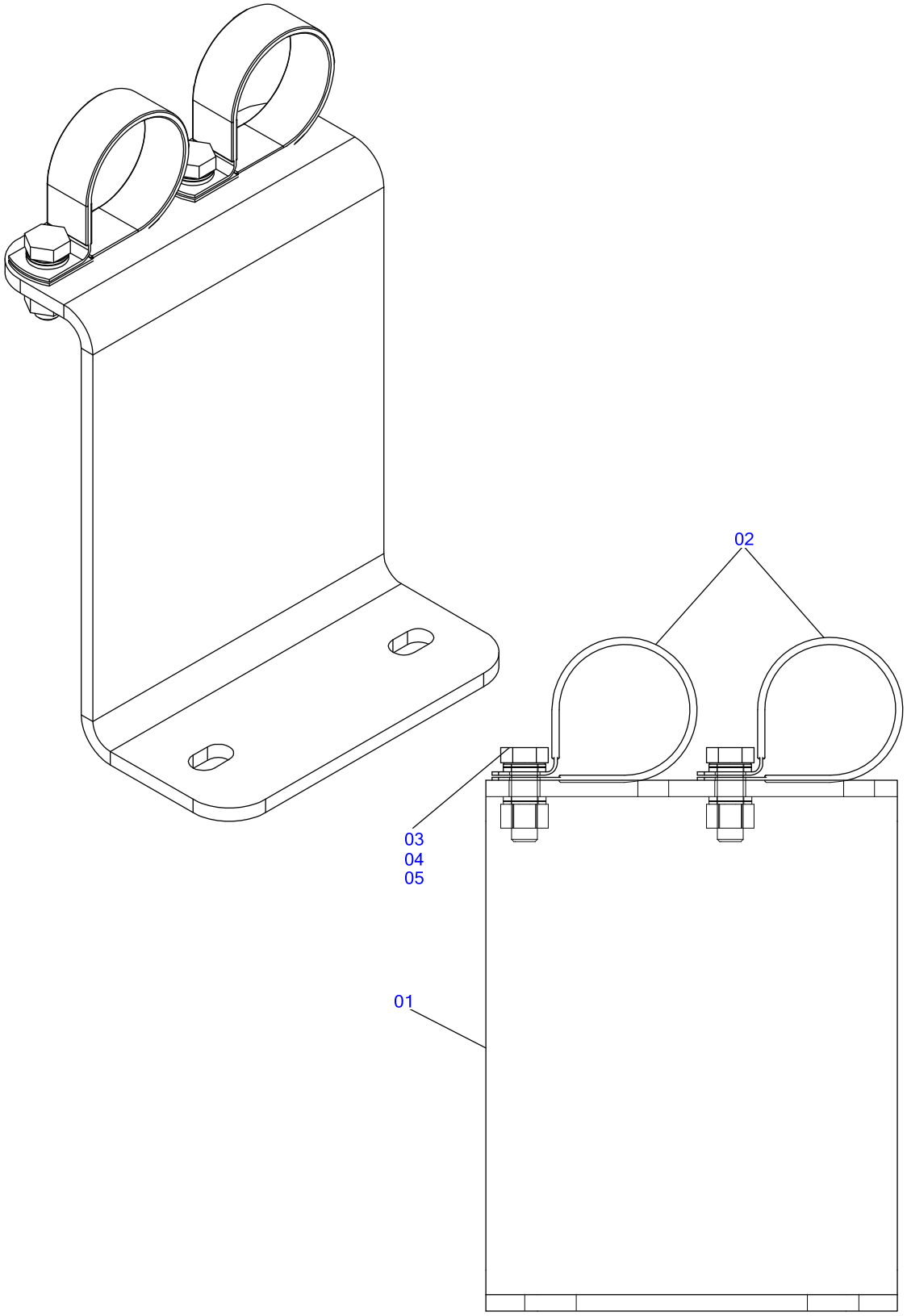
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1 OF 1

CLAMP,PROPEL HYD

CLAMP

Item	Part No.	Description	Qty.
	R102245F1	CLAMP	
01	R102246D1	▪ BRACKET, Clamp	1
02	32Z423D34	▪ CLAMP, Insulated	2
03	0825M10030	▪ BOLT, Hex Hd	2
04	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4
05	2104M010	▪ NUT, Hex	2

CLAMP



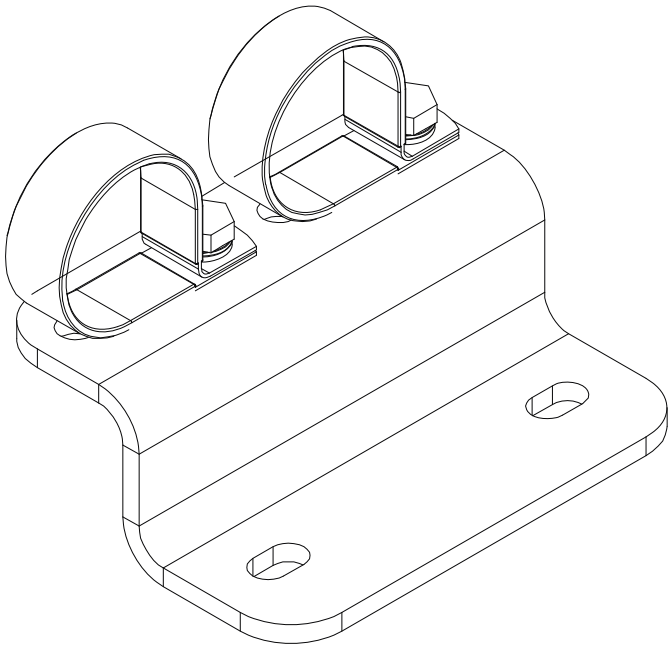
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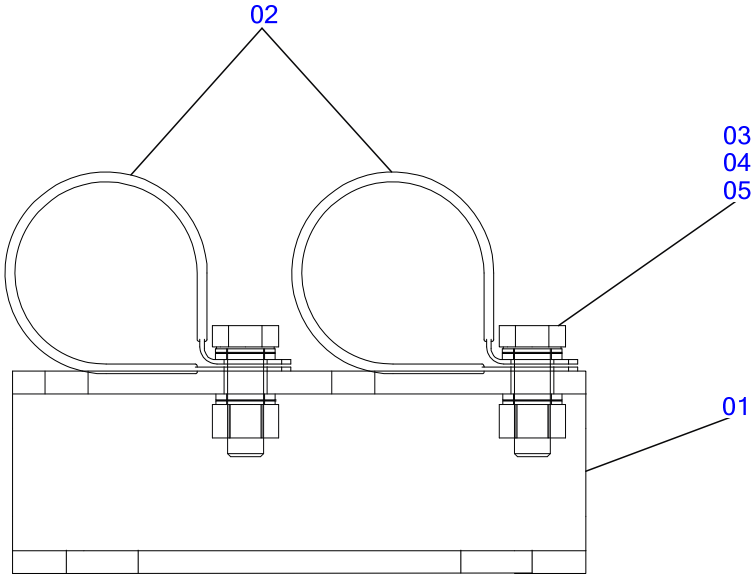
CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102245F2	CLAMP	
01	R102246D1	▪ BRACKET, Clamp	1
02	32Z423D34	▪ CLAMP, Insulated	2
03	0825M10030	▪ BOLT, Hex Hd	2
04	R82264D20	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4
05	2104M010	▪ NUT, Hex	2

CLAMP





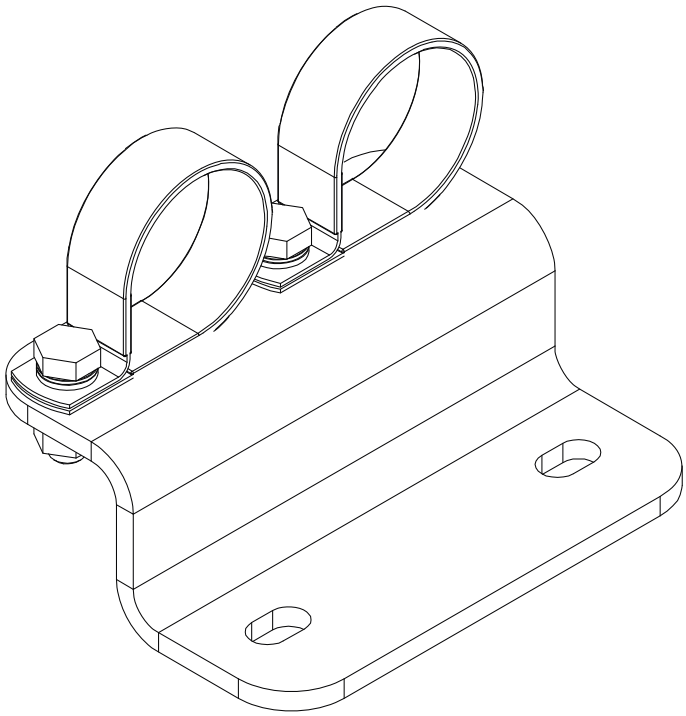
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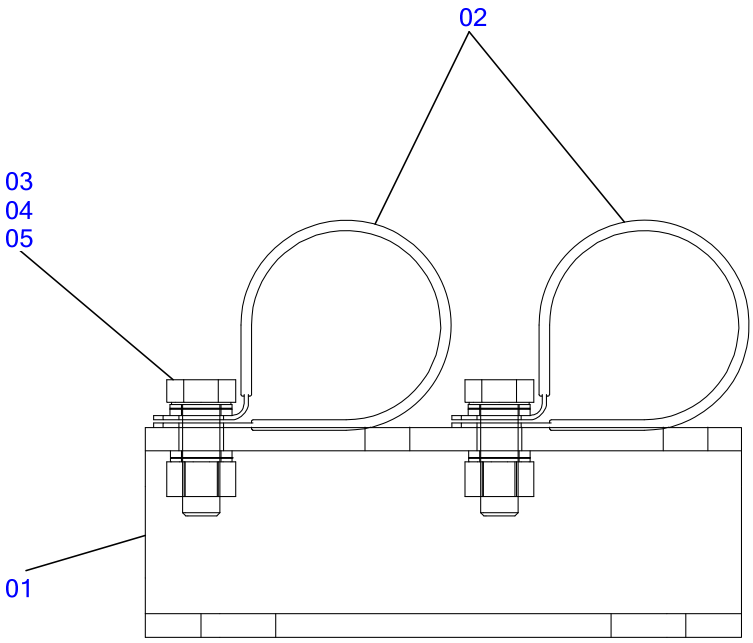
CLAMP

CLAMP

Item	Part No.	Description	Qty.
	R102491F1	CLAMP	
01	R102492D1	▪ BRACKET, Clamp	1
02	32Z423D34	▪ CLAMP, Insulated	2
03	0825M10030	▪ BOLT, Hex Hd	2
04	R82264D20	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4
05	2104M010	▪ NUT, Hex	2

CLAMP





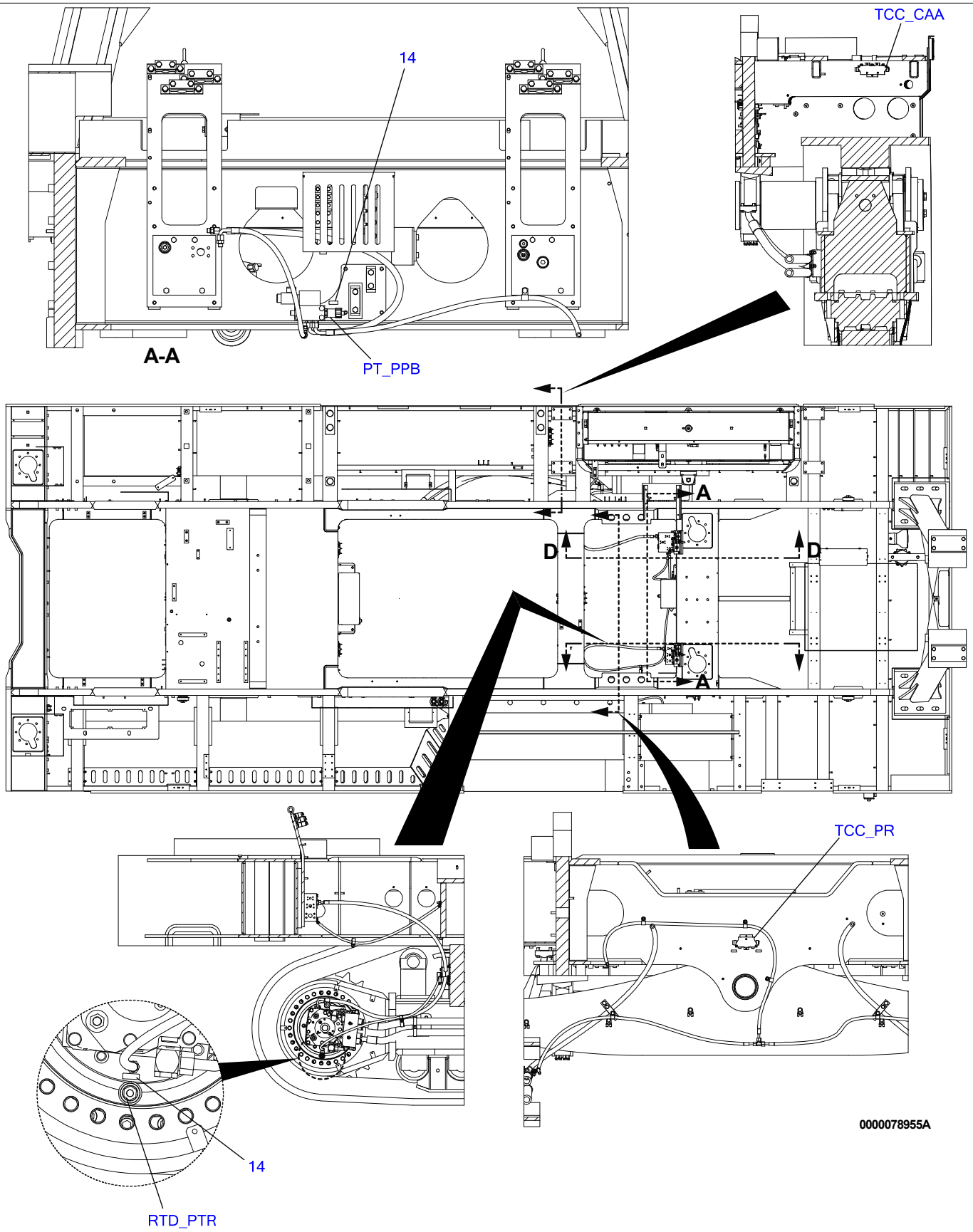
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CLAMP

CLAMP

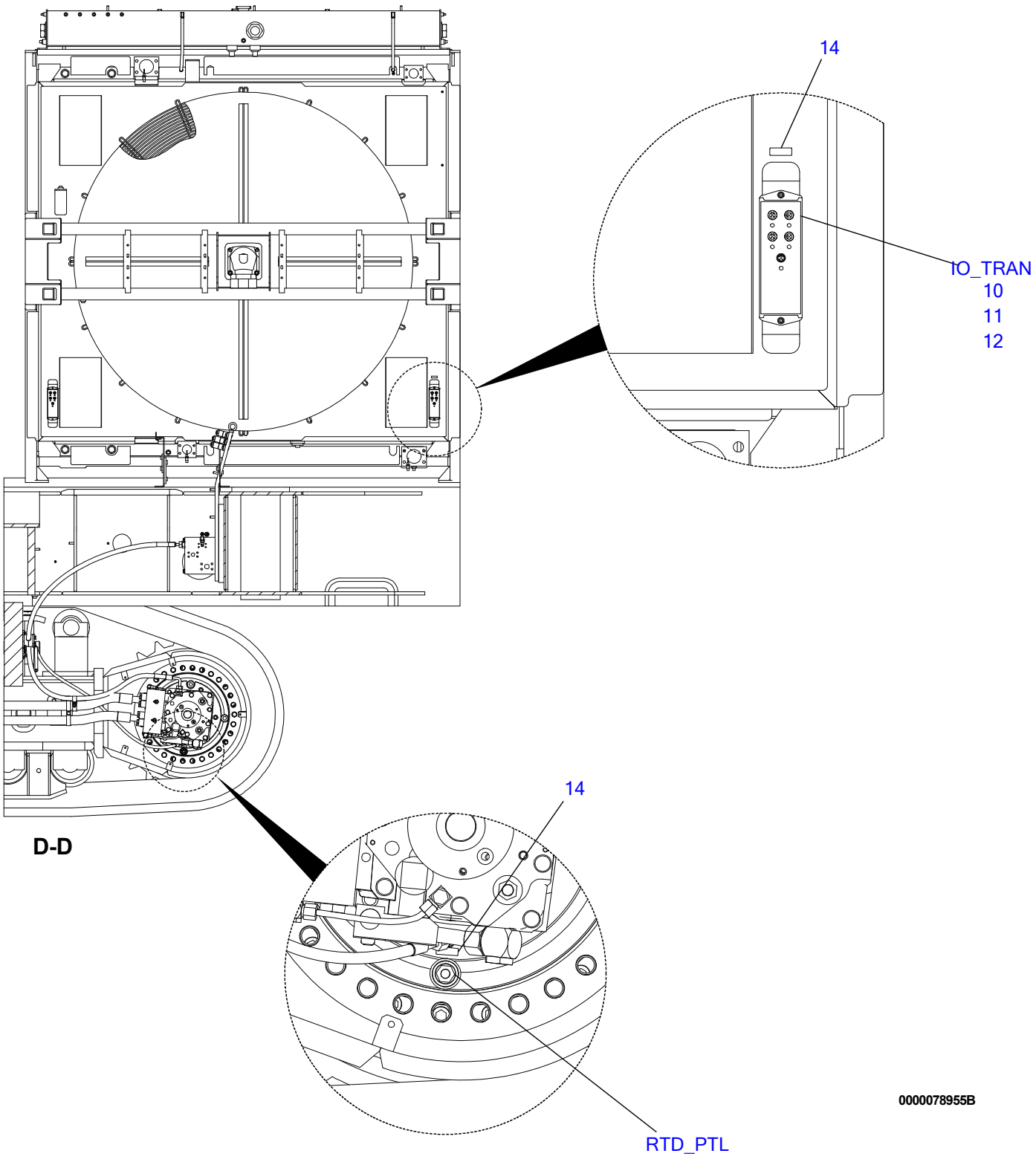
Item	Part No.	Description	Qty.
	R102491F2	CLAMP	
01	R102492D1	▪ BRACKET, Clamp	1
02	32Z423D34	▪ CLAMP, Insulated	2
03	0825M10030	▪ BOLT, Hex Hd	2
04	R82264D20	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4
05	2104M010	▪ NUT, Hex	2

INSTALLATION, TRANSMISSION MONITORING

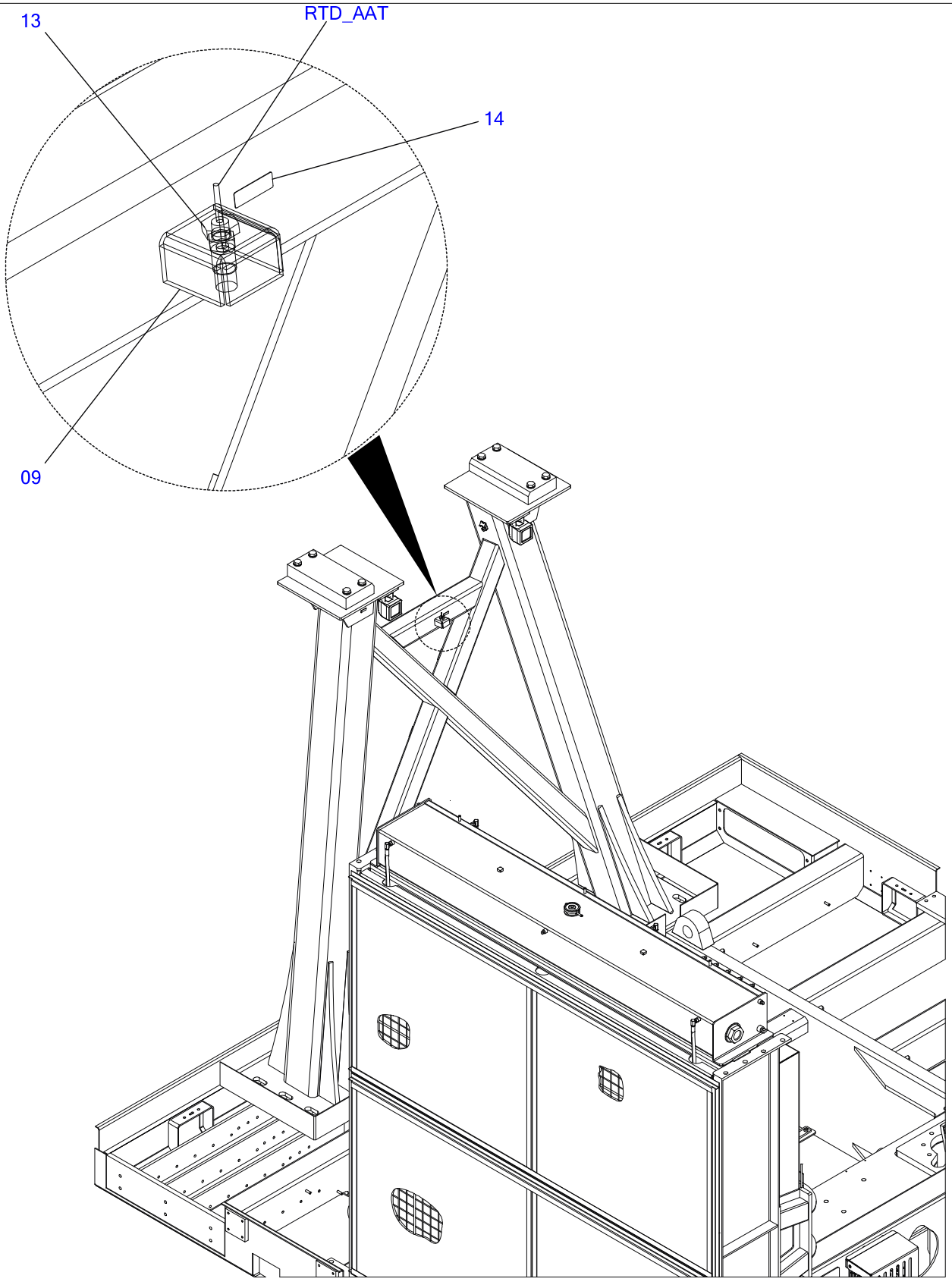


INSTALLATION, TRANSMISSION MONITORING

INSTALLATION, TRANSMISSION MONITORING



INSTALLATION, TRANSMISSION MONITORING



REAR ISO VIEW

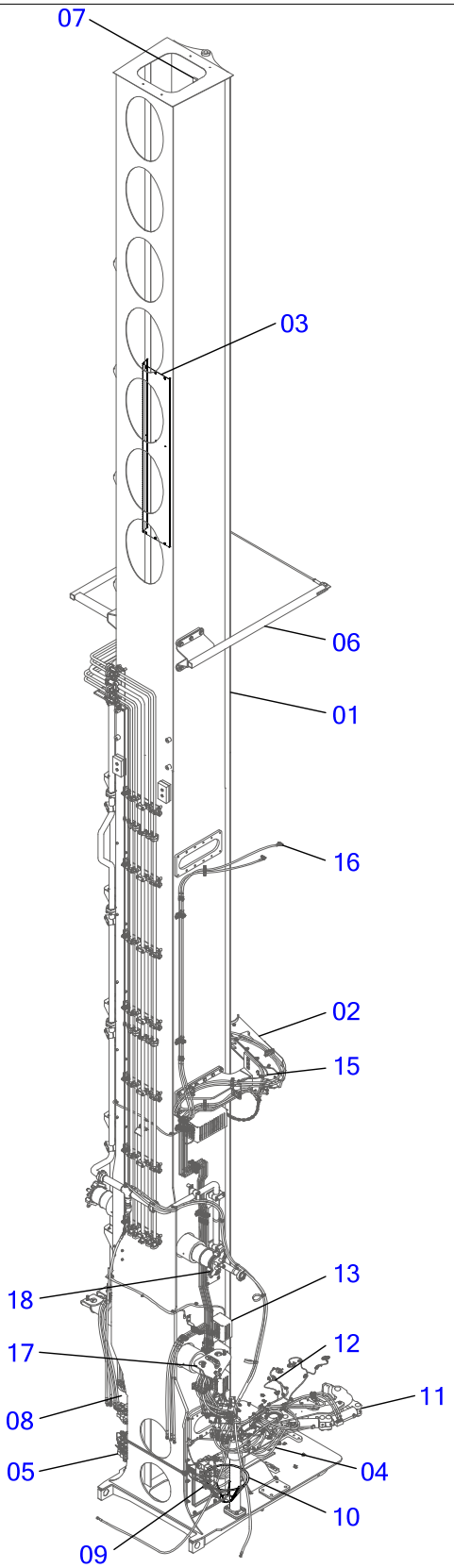
INSTALLATION, TRANSMISSION MONITORING

Item	Part No.	Description	Qty.
	R122605F1	INSTALLATION, TRANSMISSION MONITORING	
IO_TRAN	R90742D1	· ENGINE I/O MODULE	1
RTD_AAT	R89812D1	· TEMPERATURE SENSOR, RTD	1
PT_PPB	R75776D1	· TRANSDUCER, Pressure, CanOpen 3000PSI	1
RTD_PTR	R122230D1	· RTD	1
RTD_PTL	R122230D1	· RTD	1
CBL30CF-151	R90651T11D350	· CABLE, 5 Pin (Not Shown)	1
CBL30CF-091	R90650T14D650	· CABLE, 4 Pin (Not Shown)	1
CBL30CF-021	R90650T14D1150	· CABLE, 4 Pin (Not Shown)	1
CBL30CF-031	R90650T14D1150	· CABLE, 4 Pin (Not Shown)	1
CBL30A-031	R90651T10D400	· CABLE, 5 Pin (Not Shown)	1
09	R122619D1	· MOUNTING PLATE, RTD, Mast Rest	1
10	0630M04016	· SCREW, Socket Head	2
11	3648M004	· WASHER, Flat	2
12	2104M004	· NUT, Hex	2
13	R121043D1	· NUT	1
14	R122621D1	· DECALS, Transmission Sensors	1
15	R88249D1	· TIE, Wire (Not Shown)	60

MAST

Item	Description	Page
01	MAST GROUP - SINGLEPASS	307
02	CARRIAGE INSTALLATION	347
03	PIPE CAROUSEL INSTALLATION, SINGLE PASS	358
04	BIT CAROUSEL GROUP	363
05	INSTALLATION, BIT BASKET, 251MM (9.88 IN) BIT	373
06	INSTALLATION, THREADED BIT ADAPTER	376
07	INSTALLATION, BREAKOUT RAISE CYLINDER	377
08	INSTALLATION, SLIDE WRENCH	378
09	INSTALLATION, DIE ASSEMBLY	379
10	MAST AUTO LUBE GROUP	380
11	CAMERA KIT, THREAD VIEW, SINGLEPASS	391
12	LINER, UPPER POSITIONER JAW, 197MM	
13	LINER, UPPER POSITIONER, 197MM	
14	SHOCK SUB, 5.25 BECO BOX	

MAST GROUP - SINGLEPASS



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MAST GROUP - SINGLEPASS

MAST GROUP - SINGLEPASS

Item	Part No.	Description	Qty.	Page
	R9013048F1	MAST GROUP - SINGLEPASS		
01	R99000F1	▪ MAST ASSEMBLY	1	308
02	R106254F1	▪ PIPE POSITIONER INSTALLATION, Upper	1	309
03	R99330F1	▪ MAST TRAYS INSTALLATION	1	313
04	R9013047F1	▪ MECHANICAL ROUTINGS, Mast Installation	1	314
05	R111038F8000	▪ CABLE INSTALLATION, Mast	1	315
06	R97989F1	▪ PIPE SLING ASSEMBLY - Single Pass	1	318
07	R93465F1	▪ RACK ASSEMBLY INSTALLATION	1	319
08	R103257F1	▪ TRAVELING HOSES INSTALLATION	1	320
09	R91421F1	▪ HYDRAULIC VALVE INSTALLATION, Mast	1	322
10	R110815F1	▪ DUST CONTAINMENT, Mast	1	328
11	R98887F1	▪ INSTALLATION, Breakout Wrench	1	329
12	R111038F8201	▪ CABLE INSTALLATION, Pipe Handling, 2 Pot	1	335
13	R116934F1	▪ ELECTRICAL INSTALLATION, Mast	1	337
14	R108020F2	▪ GUARD INSTALLATION, Mast Traveling Hoses (Not Shown)	1	338
15	R119949F1	▪ ELECTRICAL INSTALLATION, Pipe Carousel	1	339
16	R89728F1	▪ ROUTINGS INSTALLATION, SIngle-Pass Pipe Handling	1	340
17	R111152F1	▪ INSTALLATION, Pin Lock	1	342
18	R9007860F1	▪ PLATE INSTALLATION, Pin Lock	1	343
19	R9001375F1	▪ LINER HARDWARE INSTALLATION, Upper Pipe Positioner (Not Shown)	1	344
20	R9001599F1	▪ UPDATE KIT, Upper Pipe Positioner (Not Shown)	1	345
21	R120991F2	▪ LANYARD INSTALLATION KIT - Upper Pipe Positioner (Not Shown)	1	346

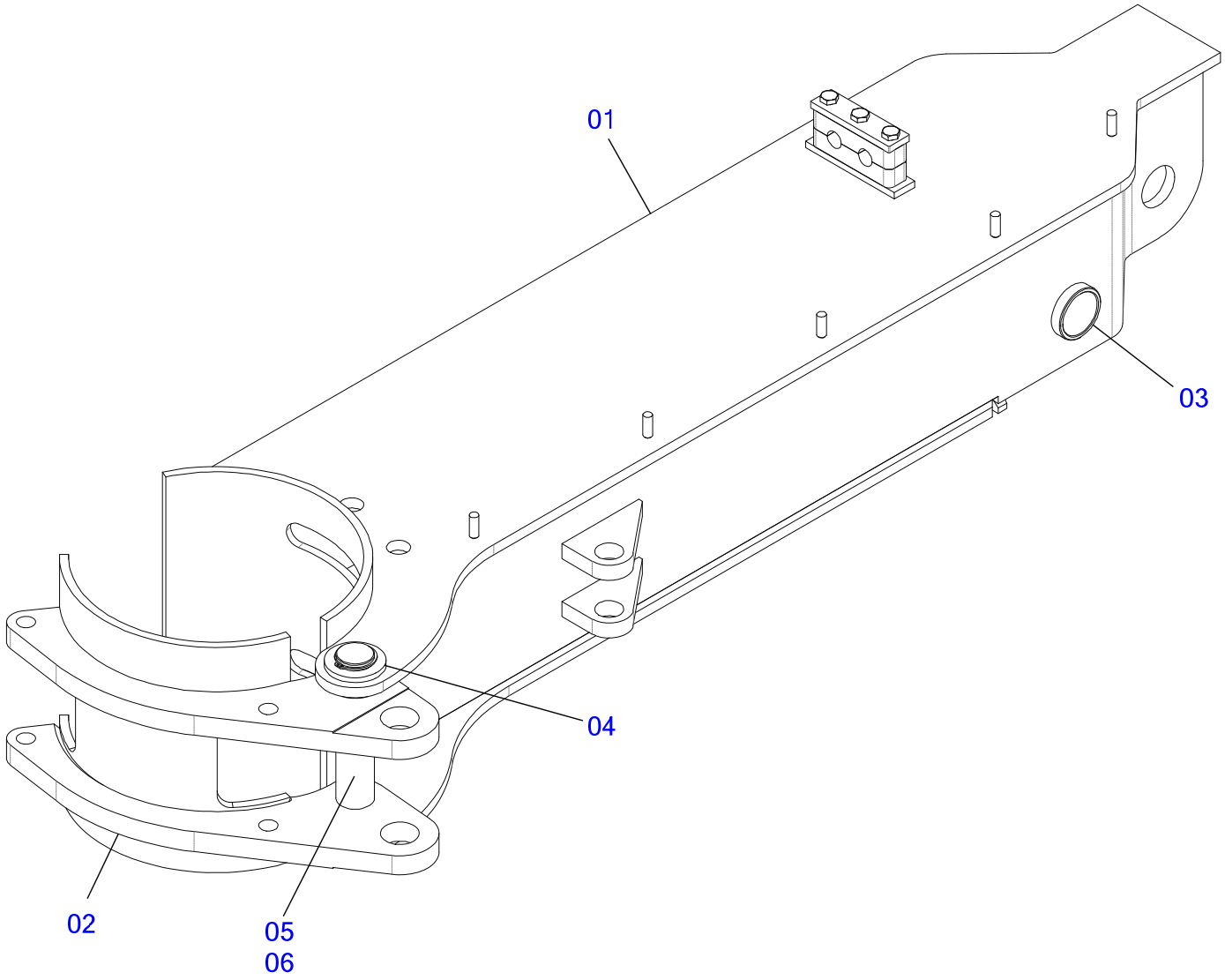
MAST ASSEMBLY

Item	Part No.	Description	Qty.
	R99000F1	MAST ASSEMBLY	
01	R90325D2	· MAST	1
02	R98997D1	· PIN, Mast	2
03	R98998D1	· SPACER, Cylinder Pin	2
04	R98999D1	· SPACER, Pivot Pin	2
05	R99001D1	· WASHER, Pin	4
06	R117337D2	· BUSHING, Mast	4
07	R99003D1	· SPACER, Pillow Block	2
08	R99004D1	· SPACER, Cylinder Eye	2
09	R89724D190	· SNAP RING, External Metric, 190mm	4
10	R115777D3	· COMPOUND, Sealing and Locking (Not Shown)	1
11	R99005D1	· BUMPER	2
12	0630M20060	· SCREW, Socket Hd	4
13	3648M020	· WASHER, Hardened	4
14	21Z772D4	· COMPOUND, Sealing and Locking	1

PIPE POSITIONER INSTALLATION, UPPER

Item	Part No.	Description	Qty.	Page
	R106254F1	PIPE POSITIONER INSTALLATION, UPPER		
01	R100375D2	▪ ARM, Middle, Pipe Carousel	1	
02	R101864D2	▪ BRACKET, Pipe Positioner	1	
03	R106253F1	▪ PIPE POSITIONER, Upper	1	310
04	R91491D1	▪ PIN, 50mm Diameter	1	
05	R106259D4	▪ PIN, 48mm	1	
06	R106259D2	▪ PIN, 40mm	1	
07	R106259D3	▪ PIN, 30mm	1	
08	R89724D50	▪ RING, External Snap	2	
09	R89724D48	▪ SNAP RING, External, 48mm	2	
10	R89724D40	▪ SNAP RING, External, 40mm	2	
11	R89724D30	▪ SNAP RING, External, 30mm	2	
12	R106258D2	▪ PLATE, Spacer	2	
13	R90388D1	▪ CYLINDER, Pipe Positioner - Swing	1	311
14	R108625D1	▪ CYLINDER, Pipe Positioner, Jaw	1	312
15	R91495D1	▪ BUSHING, Trunnion	2	
16	R91309D1	▪ MOUNT, Trunnion	2	
17	R91259D1	▪ PLATE, Wear	2	
18	R91261D1	▪ GUIDE, Wear	2	
19	R91123D1	▪ SHIM	6	
20	R82264D24	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	12	
21	0825M24050	▪ BOLT, Hex Hd	12	
22	R86393D15	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4	
23	0825M20040	▪ BOLT, Hex Hd	4	
24	18Z3087D7	▪ WASHER, Conical Lock	8	
25	0825M16100	▪ BOLT, Hex Hd	4	
26	2104M016	▪ NUT, Hex	4	
27	0825M10040	▪ BOLT, Hex Hd	8	
28	R86393D8	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	8	
29	R101866D1	▪ GUIDE, WEAR	1	
30	R101866D2	▪ SHIM, 20GA (.036 inch)	6	

PIPE POSITIONER, UPPER



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PIPE POSITIONER, UPPER

Item	Part No.	Description	Qty.
	R106253F1	PIPE POSITIONER, UPPER	
01	R106252D2	▪ MACHINING, Pipe Positioner	1
02	R108624D2	▪ MACHINING, Jaw, Pipe Positioner	1
03	R91262D1	▪ BUSHING, Wear	2
04	R106258D1	▪ PLATE, Spacer	2
05	R106259D1	▪ PIN	1
06	R89724D40	▪ SNAP RING	2

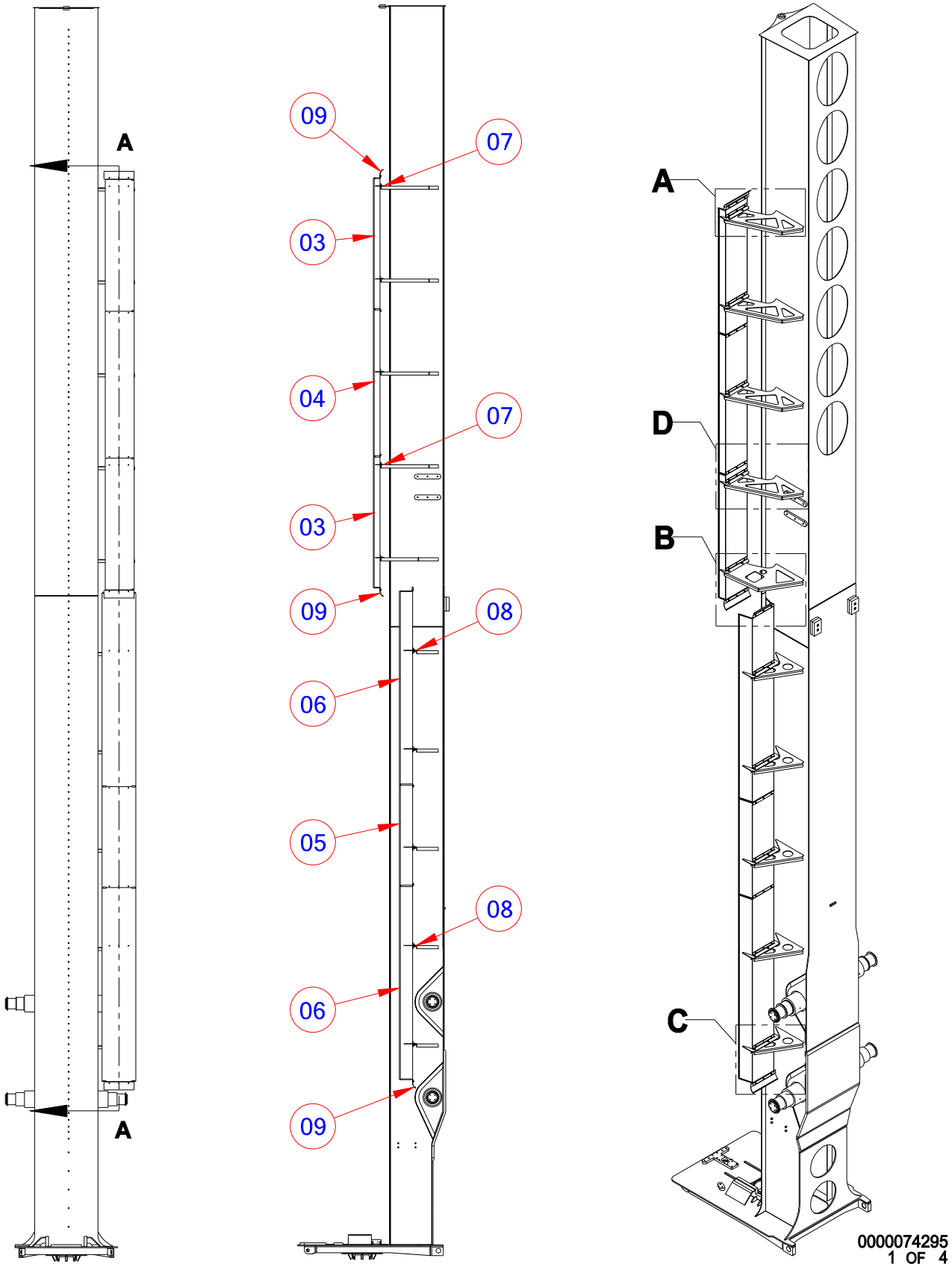
CYLINDER, PIPE POSITIONER - SWING

Item	Part No.	Description	Qty.
	R90388D1	CYLINDER, PIPE POSITIONER - SWING	
01	R90577D1	▪ SWITCH, Proximity	1
02	R9005442D1	▪ PISTON	1
03	R9005443D1	▪ HEAD, Gland	1
04	R9005444D1	▪ KIT, Seal	1
05	R9005446D1	▪ ROD, Weldment	1
06	R9005447D1	▪ KIT, Hardware	1
07	44Z1D10	▪ FITTING, Lube	1

CYLINDER, PIPE POSITIONER JAW

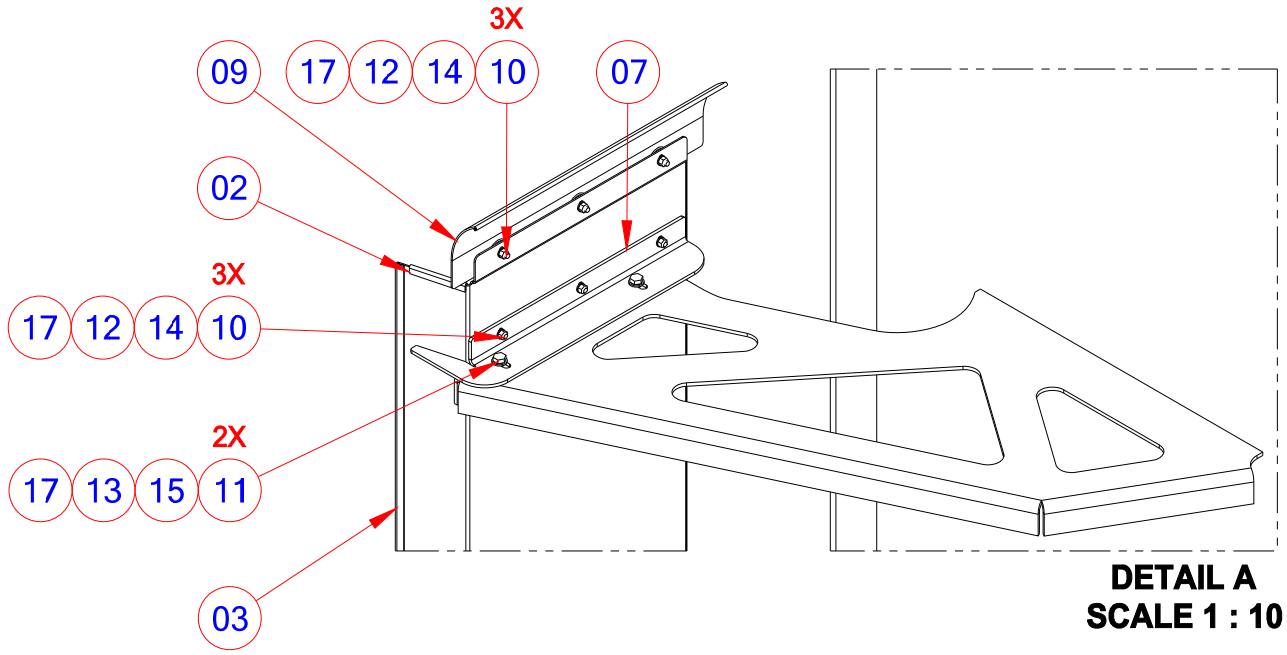
Item	Part No.	Description	Qty.
	R108625D1	CYLINDER, PIPE POSITIONER JAW	
01	R90577D1	▪ SWITCH, Proximity	2
02	R9005441D1	▪ ROD	1
03	R9005442D1	▪ PISTON	1
04	R9005443D1	▪ HEAD, Gland	1
05	R9005444D1	▪ SEAL KIT	1
06	R9005445D1	▪ HARDWARE KIT	1
07	44Z1D10	▪ FITTING, Lube	2

INSTALLATION, MAST TRAYS

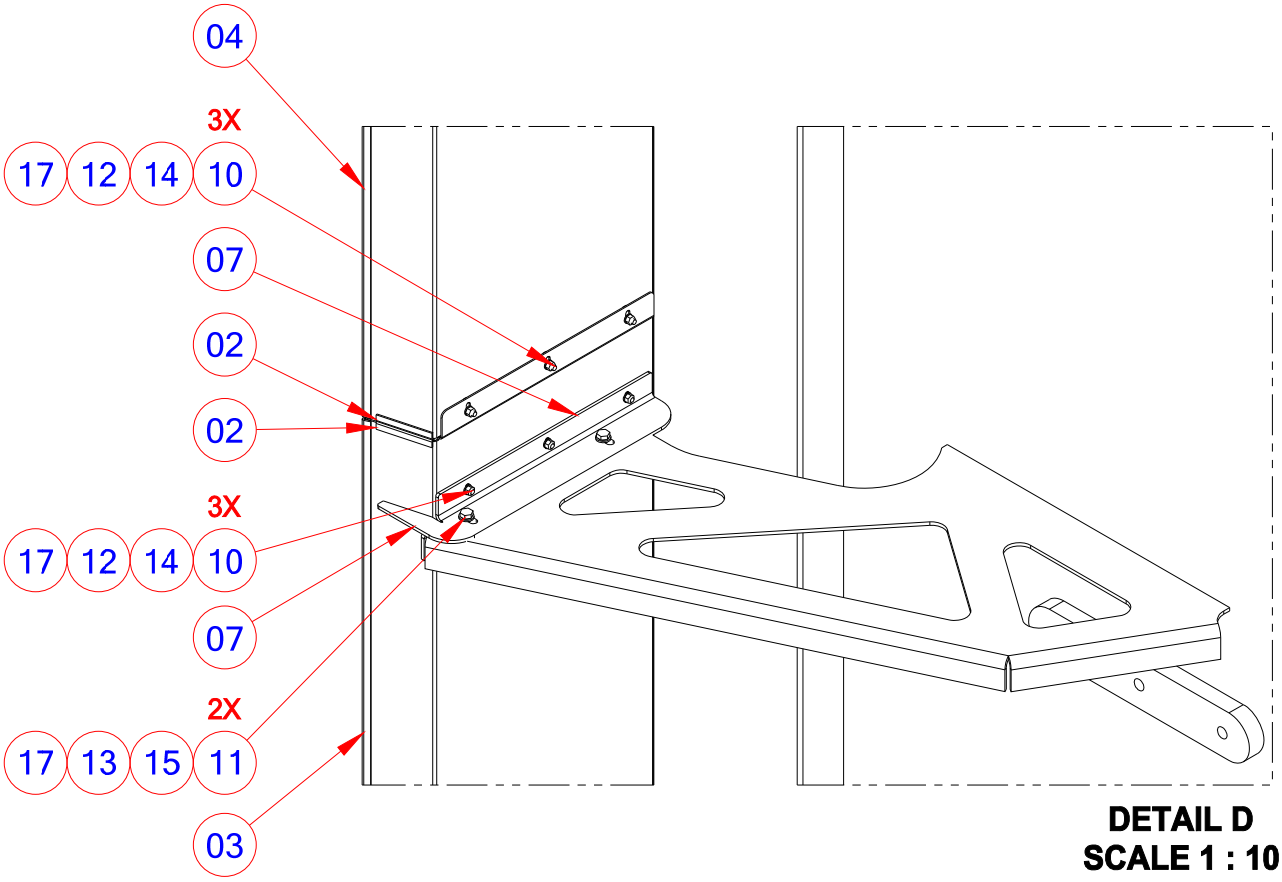


INSTALL, MAST TRAYS

INSTALLATION, MAST TRAYS



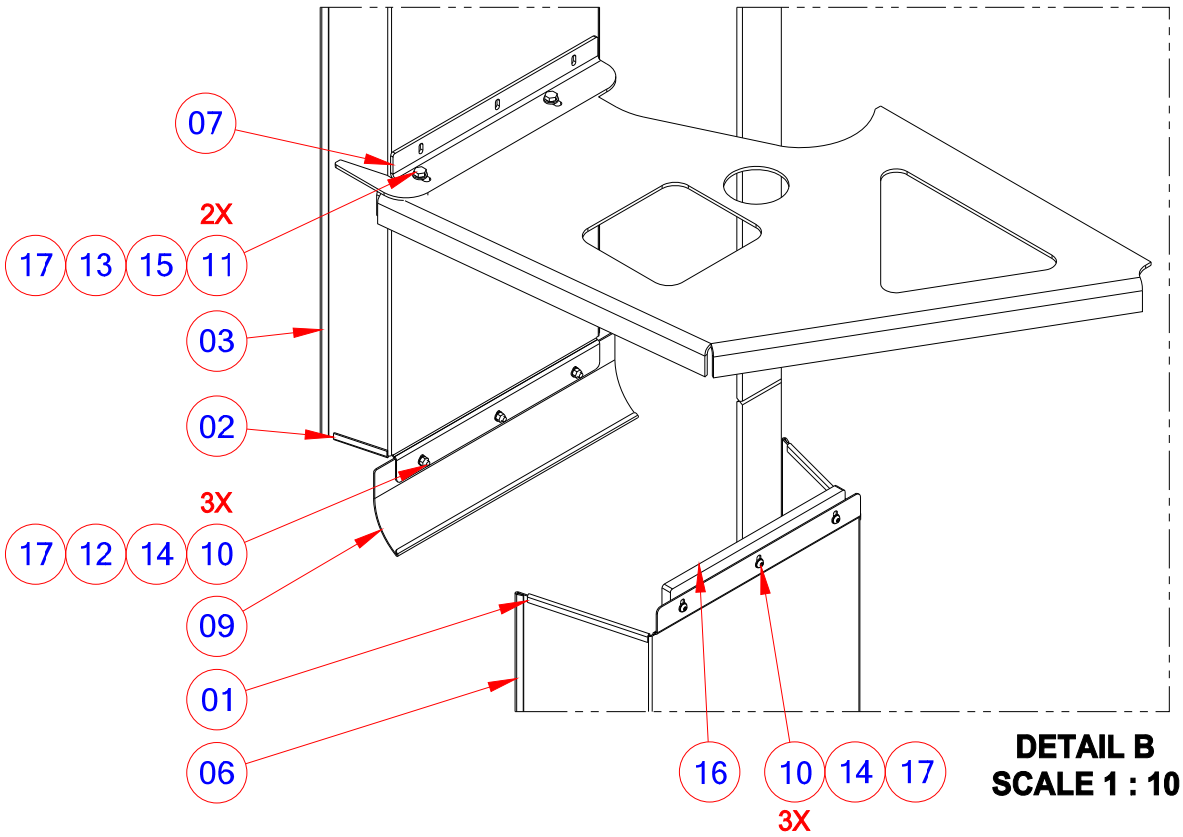
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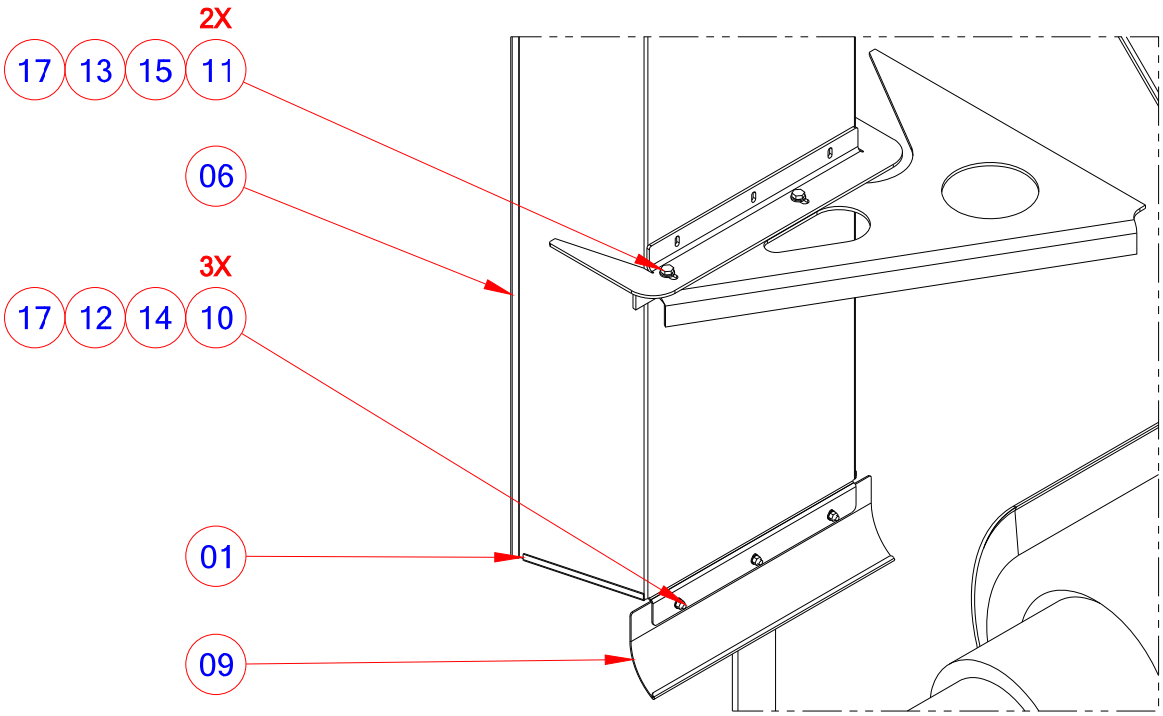
DETAIL D
SCALE 1 : 10

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2 OF 4

INSTALLATION, MAST TRAYS



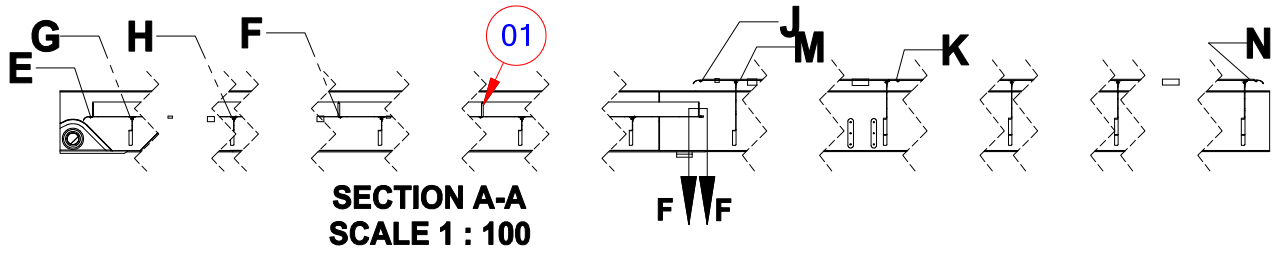
DETAIL B
SCALE 1 : 10



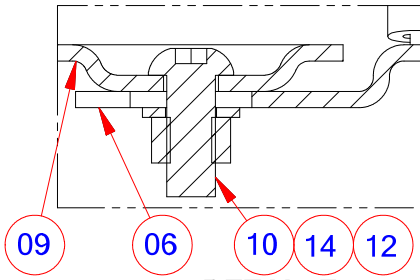
DETAIL C
SCALE 1 : 10

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3 OF 4

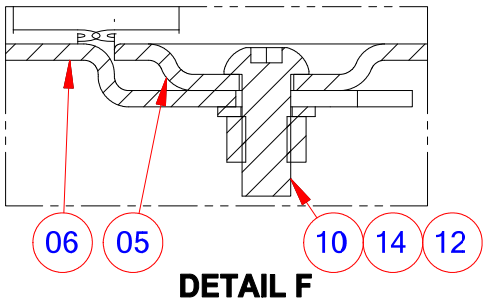
INSTALLATION, MAST TRAYS



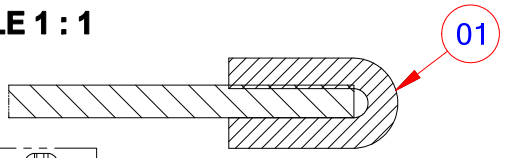
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SCALE 1 : 100



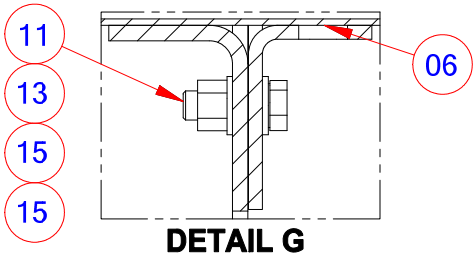
DETAIL E
SCALE 1 : 1



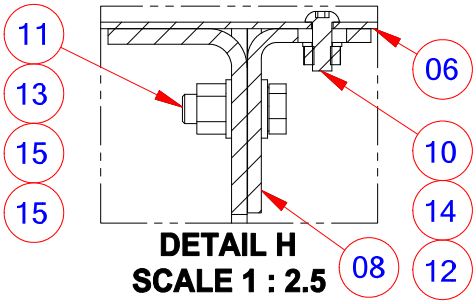
DETAIL F
SCALE 1 : 1



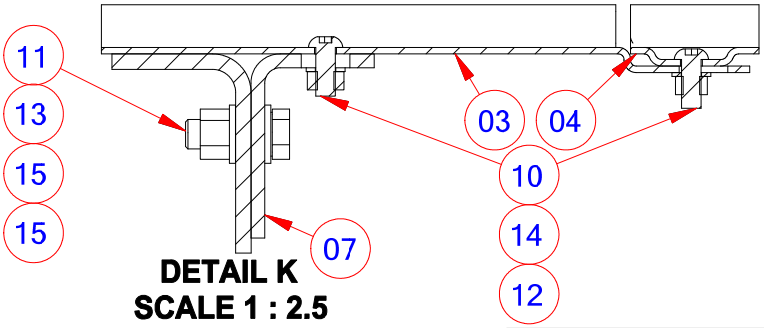
SECTION F-F
SCALE 1 : 1



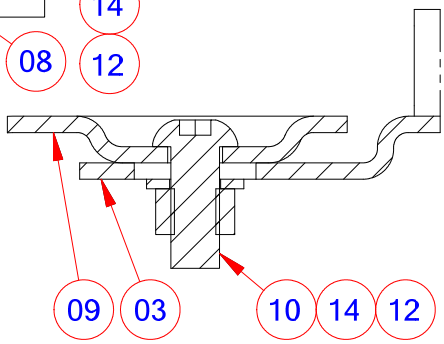
DETAIL G
SCALE 1 : 2.5



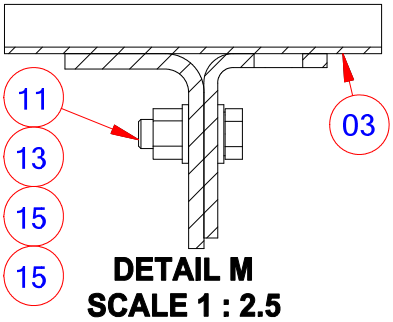
DETAIL H
SCALE 1 : 2.5



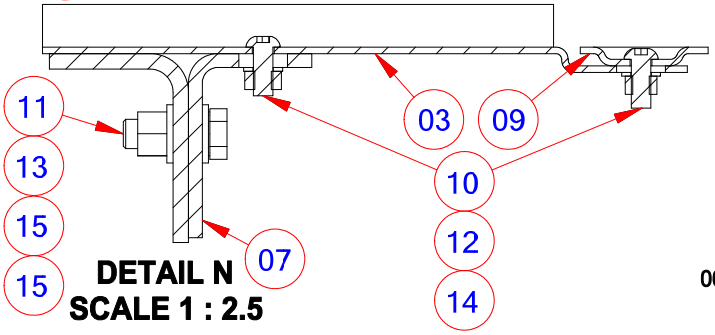
DETAIL K
SCALE 1 : 2.5



DETAIL J
SCALE 1 : 1



DETAIL M
SCALE 1 : 2.5



DETAIL N
SCALE 1 : 2.5

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4 OF 4

INSTALLATION, MAST TRAYS

Item	Part No.	Description	Qty.	Unit
	R99330F1	INSTALLATION, MAST TRAYS		
01		・TRIM, Edge	12	
	3312A2909	・・TRIM, Edge	10	Inch
02		・TRIM, Edge	6	
	3312A2909	・・TRIM, Edge	5	Inch
03	R99333D1	・TRAY	2	
04	R108642D1	・TRAY, Mast, Upper Center	1	
05	R108446D1	・TRAY, Mast, Center	1	
06	R99336D1	・TRAY	2	
07	R99337D1	・BRACKET, Tray Mounting	3	
08	R99337D2	・BRACKET, Tray Mounting	3	
09	R99338D1	・PLATE, Curved	3	
10	0836M08020	・SCREW, Button Head Cap	42	
11	0825M12035	・BOLT, Hex Hd	20	
12	2104M008	・NUT, Hex	39	
13	2104M012	・NUT, Hex	20	
14	3612M008	・WASHER, Plain	42	
15	3612M012	・WASHER, Plain	40	
16	R99339D1	・BASE, Clamp	1	
17	21Z772D4	・COMPOUND, Sealing and Locking	1	

MECHANICAL ROUTINGS, MAST INSTALLATION

Item	Part No.	Description	Qty.
	R9013047F1	MECHANICAL ROUTINGS, MAST INSTALLATION	
01	R91408D1	• CLAMP	8
02	R91414D1	• CLAMP	1
03	R89911D1	• CLAMP	1
04	R89912D1	• CLAMP	4
05	R91423D1	• CLAMP	1
06	R91424D1	• CLAMP	4
07	R91425D1	• CLAMP	1
08	R78952D3	• CLAMP, Tube	3
09	R78952D5	• CLAMP, Tube	24
10	R78952D7	• CLAMP, Tube	4
11	R78952D15	• CLAMP, Tube	32
12	R78952D20	• CLAMP, Tube	8
13	R78952D26	• CLAMP, Tube	8
14	R78953D15	• CLAMP, Hose	10
15	R78953D18	• CLAMP, Hose	2
16	R78949D18	• CLAMP, Stacking Hose	4
17	R78948D3	• CLAMP, Stacking Tube	7
18	R78948D5	• CLAMP, Stacking Tube	16
19	R78948D7	• CLAMP, Stacking Tube	4
20	R78949D15	• CLAMP, Stacking Hose	12
21	R88880D1	• PLATE, Clamp Base	2
22	R88880D5	• PLATE, Clamp Base	6
23	R88707D5	• PLATE, Clamp	2
24	R89770D1	• CONNNECTOR, Union	8
25	R89770D2	• CONNNECTOR, Union	17
26	R89770D3	• CONNNECTOR, Union	8
27	R89771D1	• CONNNECTOR, Union	6
28	R89772D1	• CONNNECTOR, Union	2
29	R89775D2	• CONNNECTOR, Union	2
30	R89778D5	• CONNECTOR	10
31	R89792D1	• CONNECTOR	2
32	R89792D2	• CONNECTOR	10
33	R89792D11	• CONNECTOR	4
34	R89793D1	• CONNECTOR	11
35	R89793D2	• CONNECTOR	4
36	R89793D3	• CONNECTOR	2
37	R89794D1	• CONNECTOR	6
38	R89795D1	• CONNECTOR	5
39	R89795D3	• CONNECTOR	3

KOMATSU

MECHANICAL ROUTINGS, MAST INSTALLATION

Item	Part No.	Description	Qty.
40	R91410D1	· TUBE ASSEMBLY	8
41	R91410D2	· TUBE ASSEMBLY	1
42	R91410D3	· TUBE ASSEMBLY	1
43	R91410D4	· TUBE ASSEMBLY	1
44	R91410D5	· TUBE ASSEMBLY	1
45	R91410D6	· TUBE ASSEMBLY	1
46	R91410D7	· TUBE ASSEMBLY	1
47	R91410D8	· TUBE ASSEMBLY	1
48	R91410D9	· TUBE ASSEMBLY	1
49	R91411D1	· TUBE ASSEMBLY	2
50	R91411D2	· TUBE ASSEMBLY	1
51	R91411D3	· TUBE ASSEMBLY	1
52	R91412D1	· TUBE ASSEMBLY	4
53	R91412D2	· TUBE ASSEMBLY	1
54	R91412D3	· TUBE ASSEMBLY	1
55	R91412D4	· TUBE ASSEMBLY	1
56	R91412D5	· TUBE ASSEMBLY	1
57	R91412D6	· TUBE ASSEMBLY	3
58	R91412D7	· TUBE ASSEMBLY	3
59	R91412D8	· TUBE ASSEMBLY	1
60	R91412D9	· TUBE ASSEMBLY	1
61	R91412D10	· TUBE ASSEMBLY	1
62	R91412D11	· TUBE ASSEMBLY	1
63	R91412D12	· TUBE ASSEMBLY	1
64	R91412D13	· TUBE ASSEMBLY	1
65	R91413D5	· TUBE ASSEMBLY	1
66	R109089D1	· TUBE ASSEMBLY	1
67	R91413D6	· TUBE ASSEMBLY	1
68	R91413D4	· TUBE ASSEMBLY	1
69	R121085D1	· TUBE ASSEMBLY	1
70	R91415D1	· TUBE ASSEMBLY	2
71	R91415D2	· TUBE ASSEMBLY	2
72	R91416D1	· TUBE ASSEMBLY	1
73	R91416D2	· TUBE ASSEMBLY	1
74	R91416D3	· TUBE ASSEMBLY	1
75	R91416D4	· TUBE ASSEMBLY	1
76	R91416D5	· TUBE ASSEMBLY	1
77	R91416D6	· TUBE ASSEMBLY	1
78	R89782T08M24D93	· HOSE ASSEMBLY	1
79	R89780T06M18D91	· HOSE ASSEMBLY	1

MECHANICAL ROUTINGS, MAST INSTALLATION

Item	Part No.	Description	Qty.
80	R89782T08M24D95	• HOSE ASSEMBLY	1
81	R89780T06M18D108	• HOSE ASSEMBLY	2
82	R89780T06M18D107	• HOSE ASSEMBLY	2
83	R89780T06M18D104	• HOSE ASSEMBLY	1
84	R89780T06M18D116	• HOSE ASSEMBLY	1
85	R89780T08M24D175	• HOSE ASSEMBLY	1
86	R89780T08M24D178	• HOSE ASSEMBLY	1
87	R89780T06M18D174	• HOSE ASSEMBLY	1
88	R89781T08M24D112	• HOSE ASSEMBLY	1
89	R89781T08M24D115	• HOSE ASSEMBLY	1
90	R89780T06M18D105	• HOSE ASSEMBLY	1
91	R89780T06M18D46	• HOSE ASSEMBLY	1
92	R89780T06M18D71	• HOSE ASSEMBLY	1
93	R89781T08M24D168	• HOSE ASSEMBLY	1
94	R89781T08M24D174	• HOSE ASSEMBLY	3
95	R89780T06M18D169	• HOSE ASSEMBLY	2
96	R89782T06M20D320	• HOSE ASSEMBLY	1
97	R89782T06M20D343	• HOSE ASSEMBLY	1
98	R89782T06M20D179	• HOSE ASSEMBLY	1
99	R89782T06M20D151	• HOSE ASSEMBLY	1
100	R89782T06M20D98	• HOSE ASSEMBLY	1
101	R89782T06M20D96	• HOSE ASSEMBLY	1
102	R89781T06M20D116	• HOSE ASSEMBLY	1
103	R89781T06M20D110	• HOSE ASSEMBLY	1
104	R89781T06M20D103	• HOSE ASSEMBLY	1
105	R89781T06M20D100	• HOSE ASSEMBLY	1
106	R89782T06M20D47	• HOSE ASSEMBLY	1
107	R89782T06M20D57	• HOSE ASSEMBLY	1
108	R89780T06M20D108	• HOSE ASSEMBLY	1
109	R89780T06M20D106	• HOSE ASSEMBLY	1
110	R89781T06M20D105	• HOSE ASSEMBLY	1
111	R89781T06M20D106	• HOSE ASSEMBLY	1
112	R89782T06M20D118	• HOSE ASSEMBLY	1
113	R89782T06M20D130	• HOSE ASSEMBLY	1
114	R89782T08M24D296	• HOSE ASSEMBLY	1
115	3612M016	• WASHER, Plain	50
116	3612M010	• WASHER, Plain	49
117	3612M012	• WASHER, Plain	113
118	0825M12030	• BOLT, Hex Hd	32
119	0825M12035	• BOLT, Hex Hd	16

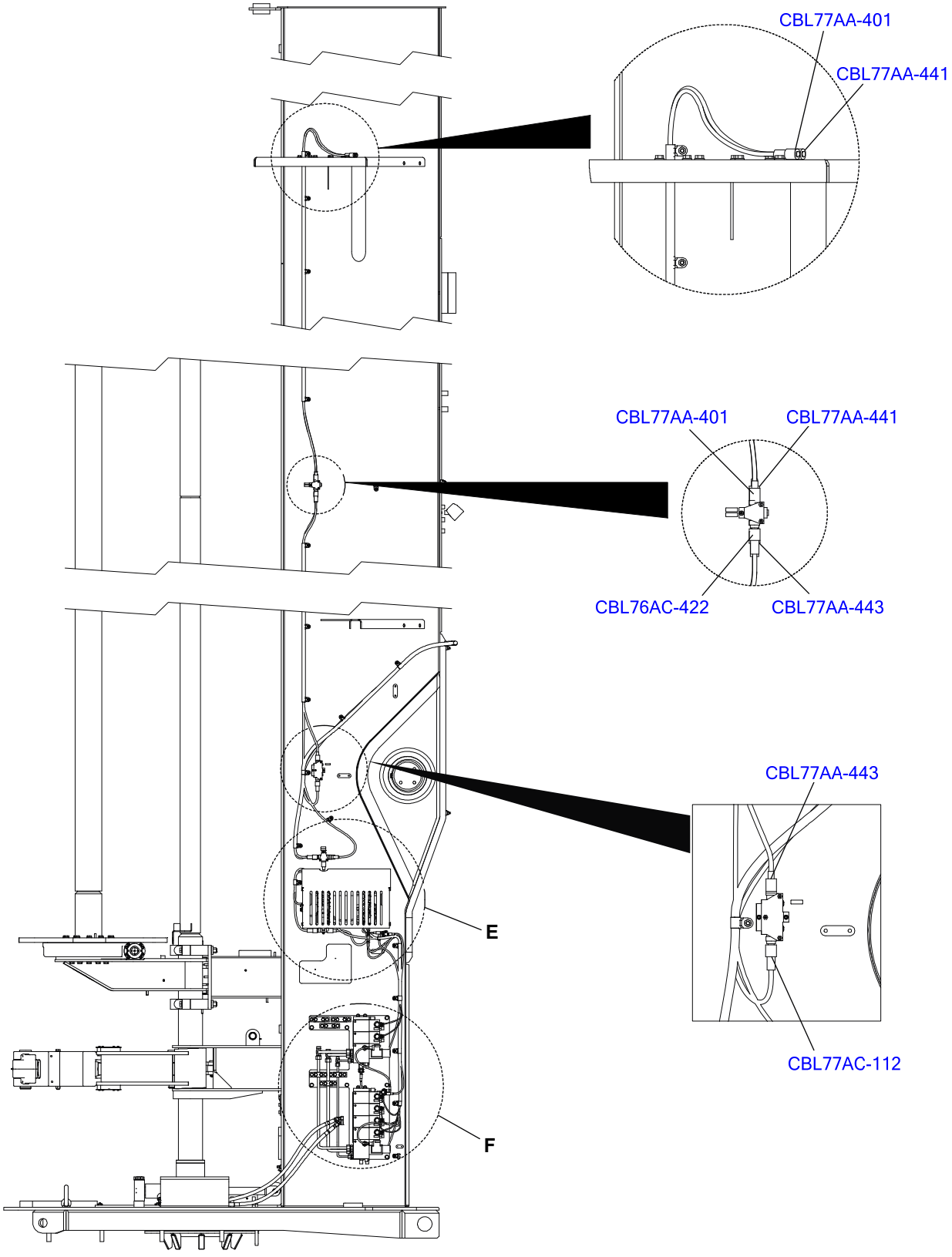
MECHANICAL ROUTINGS, MAST INSTALLATION

Item	Part No.	Description	Qty.
120	0825M16050	• BOLT, Hex Hd	24
121	0825M16040	• BOLT, Hex Hd	16
122	0825M12045	• BOLT, Hex Hd	64
123	0825M10025	• BOLT, Hex Hd	43
124	0825M16150	• BOLT, Hex Hd	4
125	2104M016	• NUT, Hex	10
126	45Z479D22	• O-RING	16
127	45Z479D24	• O-RING	4
128	45Z479D48	• O-RING	6
129	R91428D1	• BASE, Clamp	1
130	R91429D1	• BRACKET, Bulkhead	1
131	R91429D2	• BRACKET, Bulkhead	1
132	R91429D3	• BRACKET, Bulkhead	1
133	R89776D2	• CONNECTOR, Union	8
134	R89792D5	• CONNECTOR	6
135	R89794D2	• CONNECTOR	4
136	R89771D3	• CONNECTOR, Union	1
137	R89794D3	• CONNECTOR	1
138	R109090D1	• BRACKET, Mast Tube Mounting	1
139	R121068D1	• PIPE, Water Injection	1
140	2104M010	• NUT, Hex	6
141	GH5000369	• VALVE, Brass Check	1
142	44Z2593D3	• CAP	2
143	32Z423D58	• CLAMP, Insulated	3
144	32Z423D22	• CLAMP, Insulated	6
145	32Z423D47	• CLAMP, Insulated	3
146	32Z423D21	• CLAMP, Insulated	6
147	44Z2574D3	• CONNECTOR	1
148	R89777D4	• CONNECTOR	1
149	R81802T08D338	• HOSE ASSEMBLY	1
150	R89780T08M20D790	• HOSE ASSEMBLY	1

CABLE INSTALLATION, MAST

Item	Part No.	Description	Qty.	Page
	R111038F8000	CABLE INSTALLATION, MAST		
01	R111038F8001	▪ CABLE INSTALLATION, Mast, Right Side	1	316
02	R111038F8002	▪ CABLE INSTALLATION, Mast, Left Side	1	317

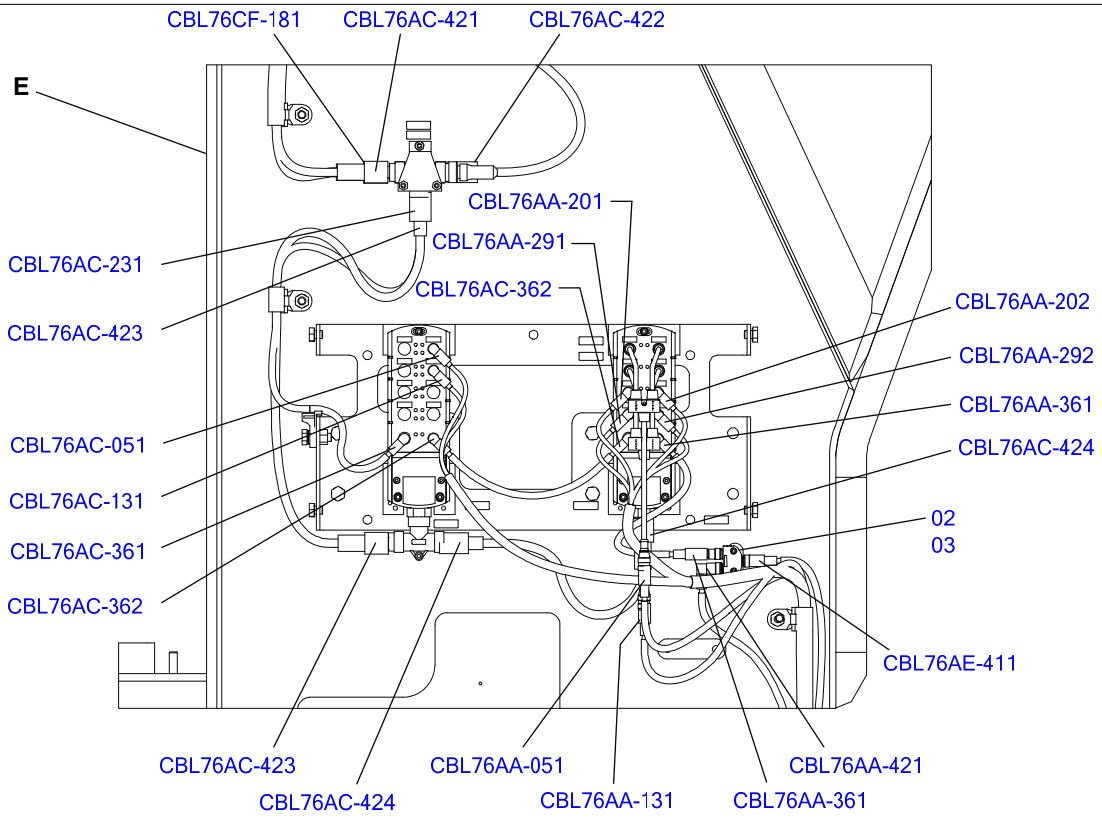
CABLE INSTALLATION, MAST, RH

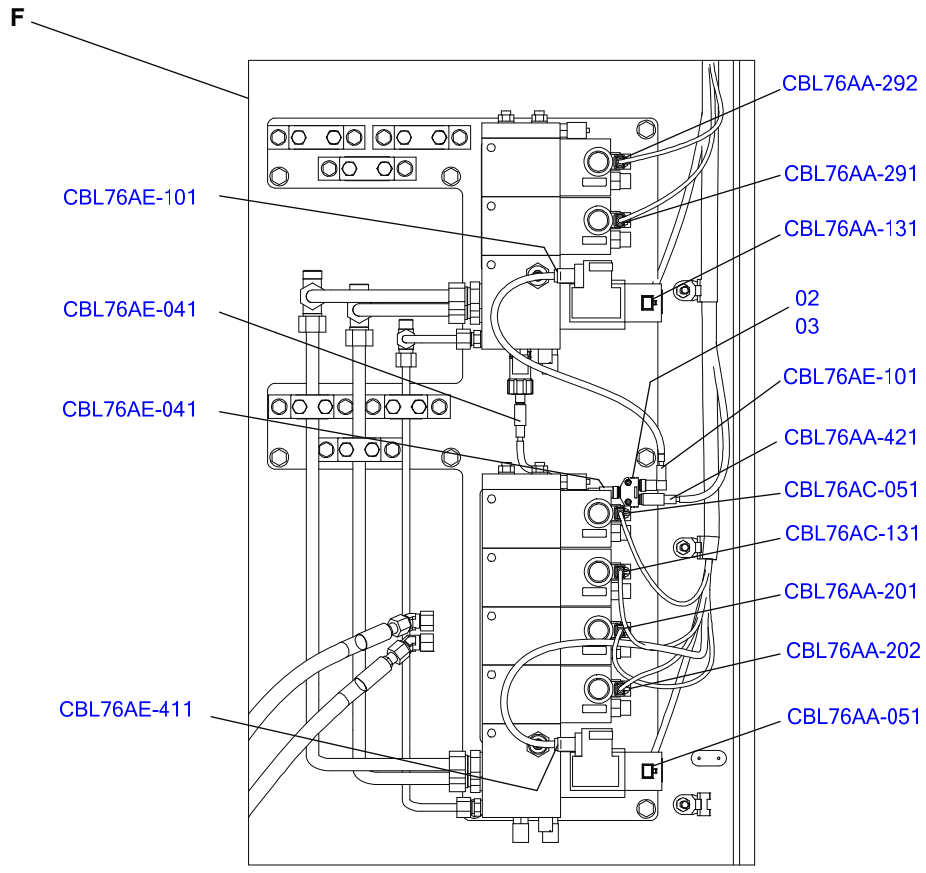


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RIGHT SIDE

CABLE INSTALLATION, MAST, RH

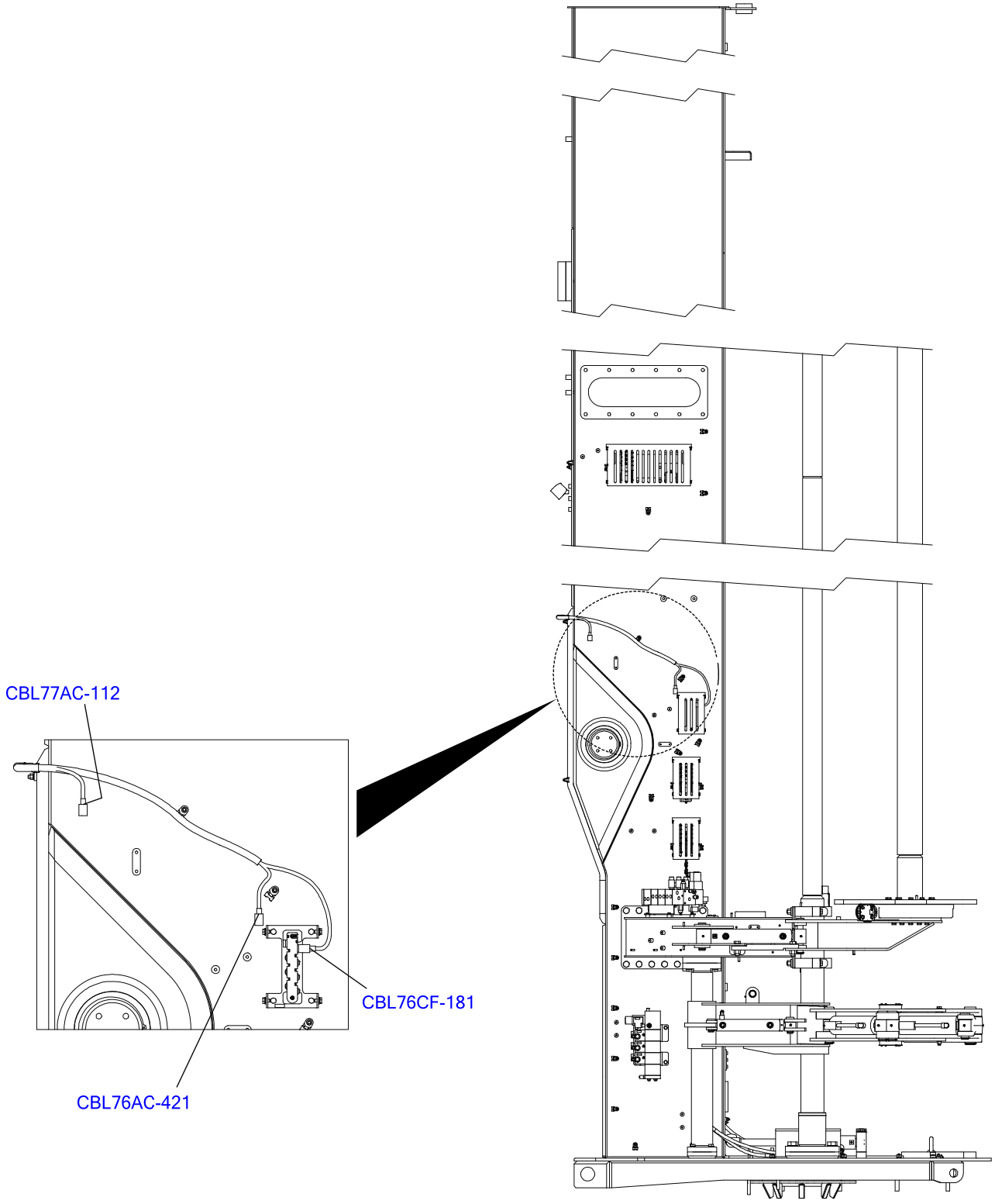




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RIGHT SIDE - SECTIONS E & F

CABLE INSTALLATION, MAST, RH



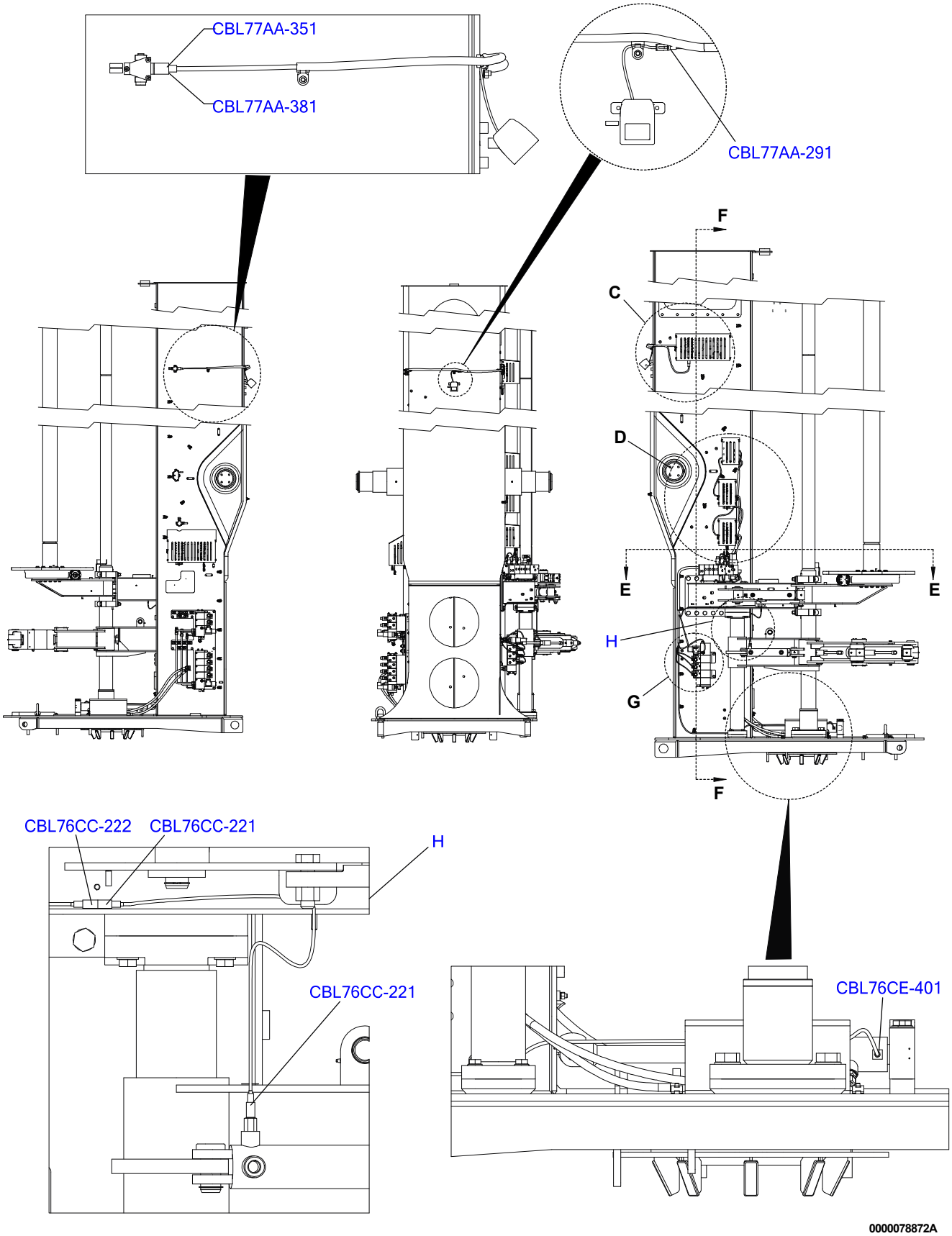
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LEFT SIDE

CABLE INSTALLATION, MAST, RH

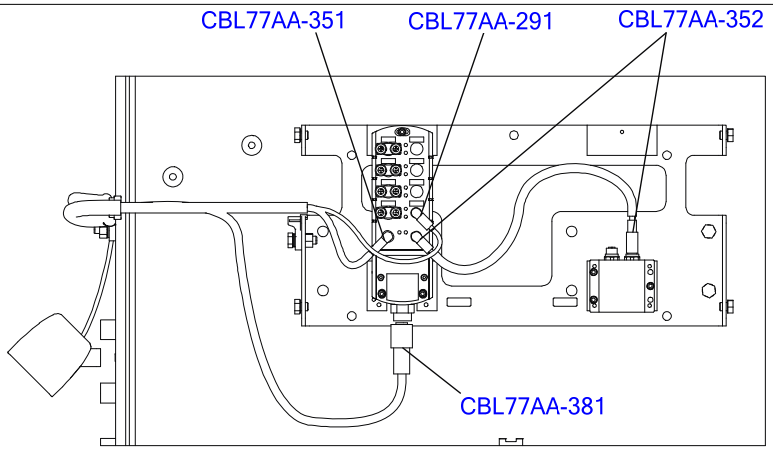
Item	Part No.	Description	Qty.
	R111038F8001	CABLE INSTALLATION, MAST, RH	
01	R111038F801	・WIRE LIST, Mast, RH	1
CBL76AA-051	R90650T18D230	・・CABLE, 4 Pin	1
CBL76AA-131	R90650T18D160	・・CABLE, 4 Pin	1
CBL76AA-201	R90650T21D220	・・CABLE, 2 Pin	1
CBL76AA-202	R90650T21D230	・・CABLE, 2 Pin	1
CBL76AA-291	R90650T21D160	・・CABLE, 2 Pin	1
CBL76AA-292	R90650T21D160	・・CABLE, 2 Pin	1
CBL76AA-421	R90651T11D150	・・CABLE, 5 Pin	1
CBL76AC-051	R90650T21D250	・・CABLE, 2 Pin	1
CBL76AC-131	R90650T21D250	・・CABLE, 2 Pin	1
CBL76AC-361	R90651T13D80	・・CABLE, 5 Pin	1
CBL76AC-362	R90651T12D40	・・CABLE, 5 Pin	1
CBL76AE-101	R90651T29D140	・・CABLE, 4 Pin	1
CBL76AE-411	R90651T25D200	・・CABLE, 4 Pin	1
CBL76AC-421	R90655T10D450	・・CABLE, 3 Pin	1
CBL76AC-423	R90655T10D90	・・CABLE, 3 Pin	1
CBL76AC-422	R90655T10D450	・・CABLE, 3 Pin	1
CBL76CF-181	R90652T10D450	・・CABLE, 5 Pin	1
CBL77AA-441	R90652T10D700	・・CABLE, 5 Pin	1
CBL77AA-401	R90655T10D700	・・CABLE, 3 Pin	1
CBL76AC-424	R90655T10D50	・・CABLE, 3 Pin	1
CBL76AE-041	R90651T10D60	・・CABLE, 5 Pin	1
CBL76AA-361	R90651T11D30	・・CABLE, 5 Pin	1
CBL77AA-443	R90652T10D400	・・CABLE, 5 Pin	1
CBL77AC-112	R90652T10D350	・・CABLE, 5 Pin	1
02	R4286130	・CABLE, CAN Y-Splitter, 5-Pin	2
03	0830M04025	・SCREW, Socket Hd	4
04	R88249D1	・TIE, Wire (Not Shown)	1

CABLE INSTALLATION, MAST, LH

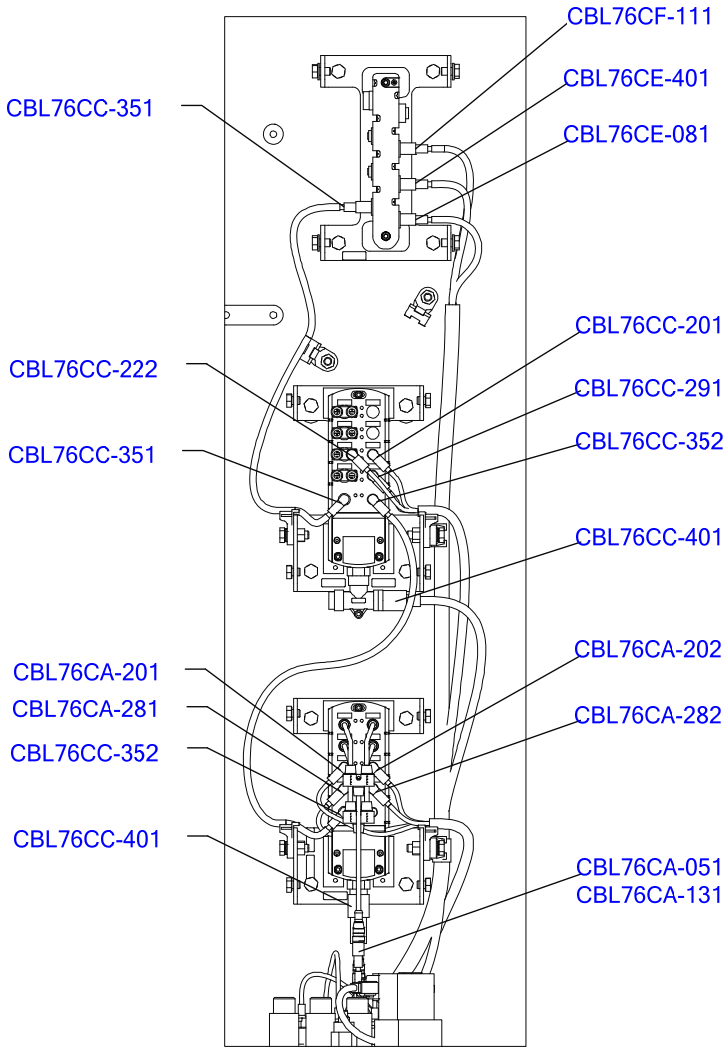


CABLE INSTALLATION, MAST, LH

CABLE INSTALLATION, MAST, LH



C

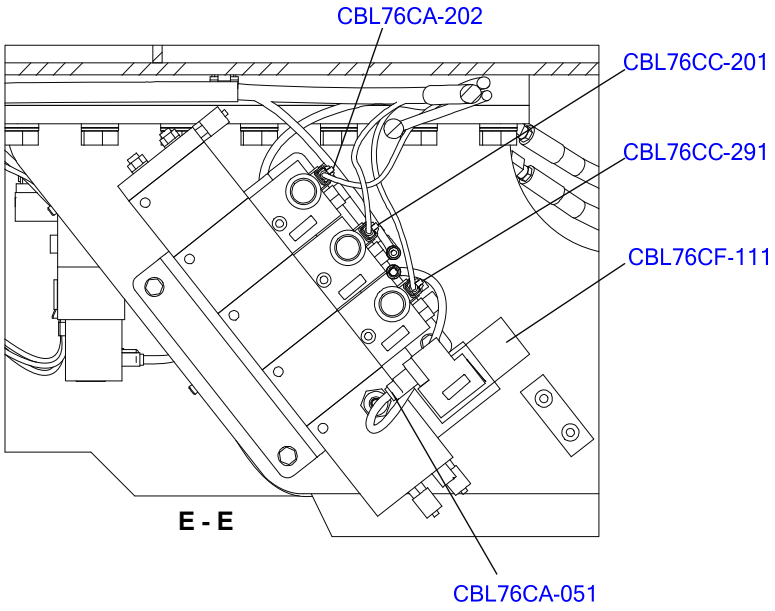


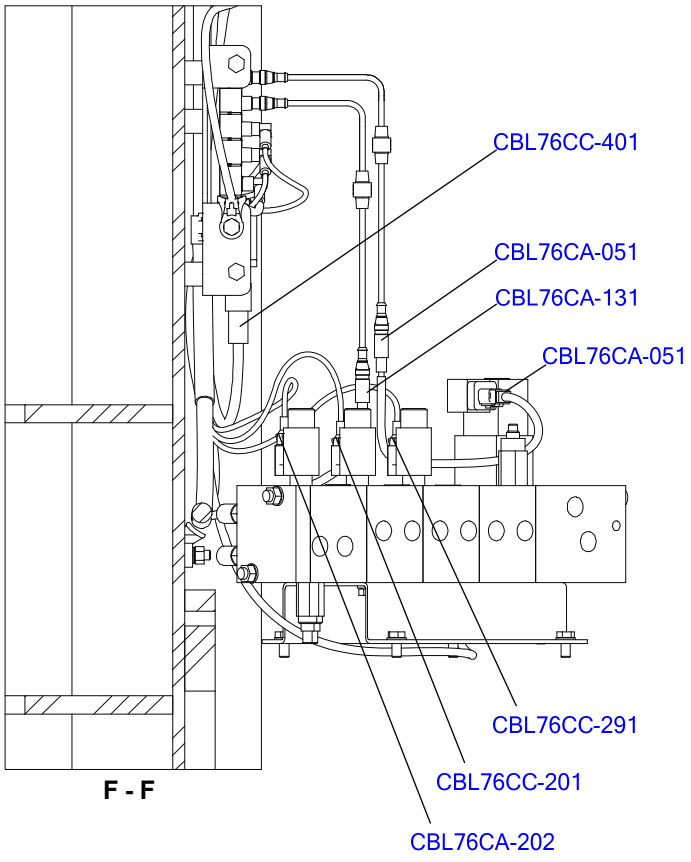
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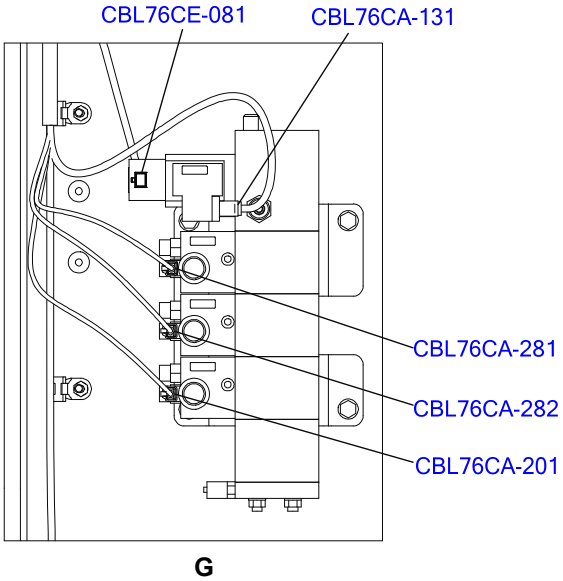
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DETAIL VIEW C & D

CABLE INSTALLATION, MAST, LH







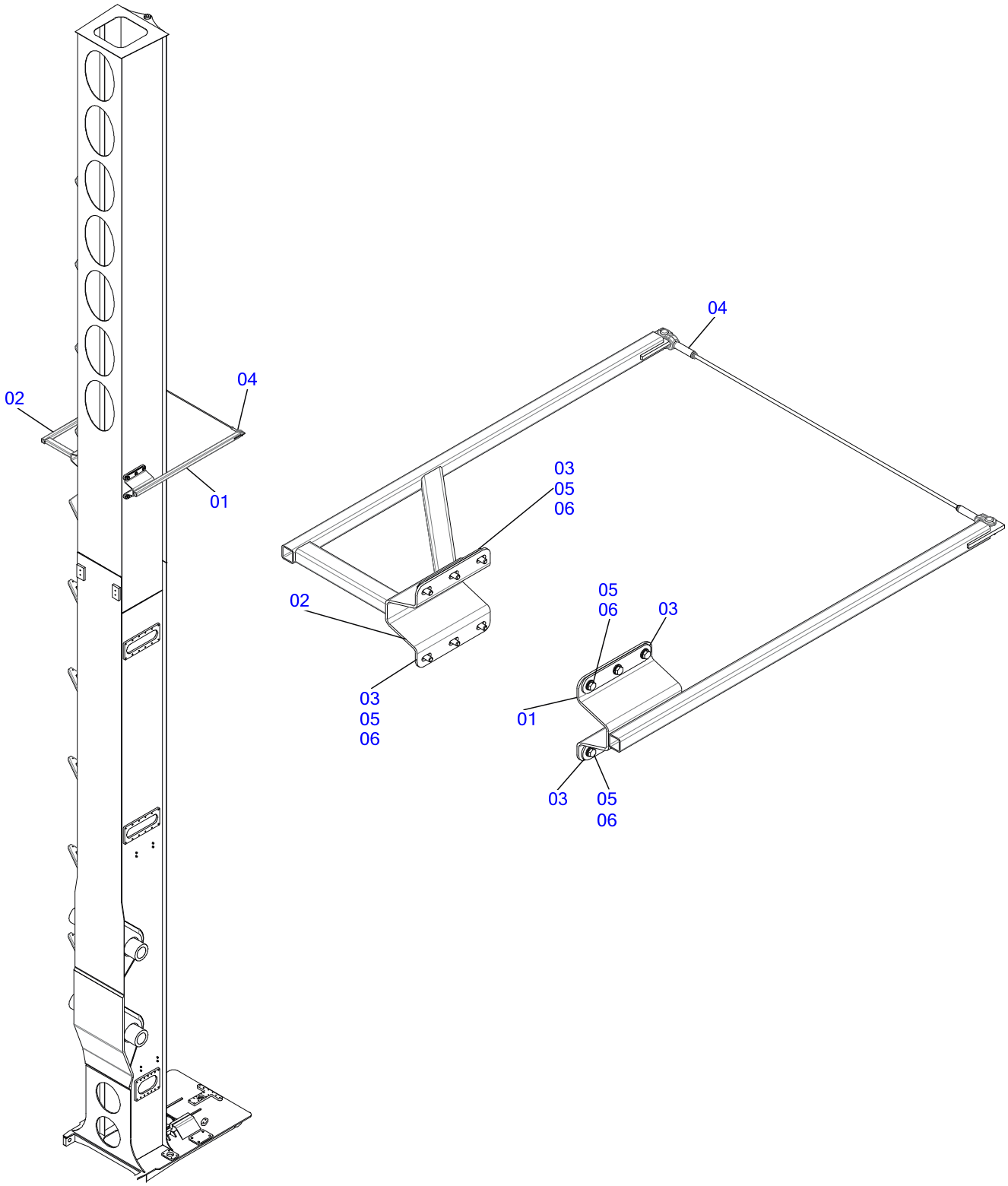
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SECTIONS E-E, F-F & G

CABLE INSTALLATION, MAST, LH

Item	Part No.	Description	Qty.
	R111038F8002	CABLE INSTALLATION, MAST, LH	
01	R111038F802	・WIRE LIST, Mast, LH	1
CBL76CA-051	R90650T18D50	・・CABLE, 4 Pin	1
CBL76CA-131	R90650T18D220	・・CABLE, 4 Pin	1
CBL76CA-201	R90650T21D260	・・CABLE, 2 Pin	1
CBL76CA-202	R90650T21D80	・・CABLE, 2 Pin	1
CBL76CA-281	R90650T21D250	・・CABLE, 2 Pin	1
CBL76CA-282	R90650T21D250	・・CABLE, 2 Pin	1
CBL76CC-201	R90650T21D130	・・CABLE, 2 Pin	1
CBL76CC-291	R90650T21D130	・・CABLE, 2 Pin	1
CBL76CC-351	R90651T13D90	・・CABLE, 5 Pin	1
CBL76CC-352	R90651T12D90	・・CABLE, 5 Pin	1
CBL76CC-401	R4265230	・・CABLE EXT, 3 Pin	1
02	R4281241	・・・SNAP RING, Mini (Not Shown)	1
CBL76CE-081	R90651T25D280	・・CABLE, 4 Pin	1
CBL76CF-111	R90651T25D200	・・CABLE, 4 Pin	1
CBL77AA-352	R90651T11D50	・・CABLE, 5 Pin	1
CBL77AA-381	R90655T10D270	・・CABLE, 3 Pin	1
CBL76CC-222	R90650T14D270	・・CABLE, 4 Pin	1
CBL76CC-221	R91488D1	・・CABLE COIL, 4 Pin	1
CBL76CE-401	R90651T10D540	・・CABLE, 5 Pin	1
CBL77AA-291	R90650T21D110	・・CABLE, 2 Pin	1
CBL77AA-351	R90651T13D250	・・CABLE, 5 Pin	1
03	R88249D1	・TIE, Wire (Not Shown)	25

SLING, PIPE ASSEMBLY



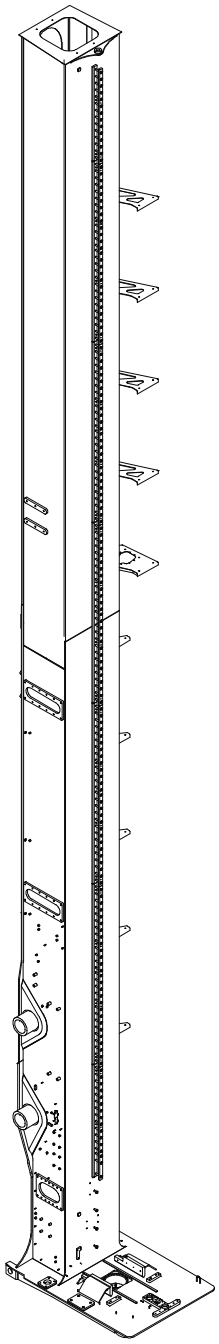
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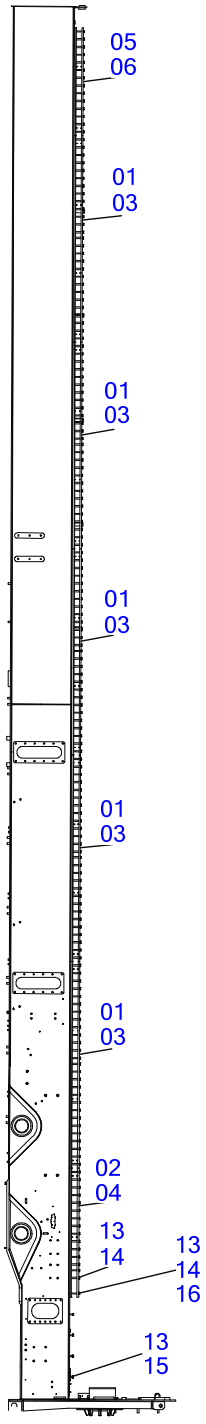
SLING, PIPE ASSEMBLY

SLING, PIPE ASSEMBLY

Item	Part No.	Description	Qty.
	R97989F1	SLING, PIPE ASSEMBLY	
01	R97986D1	▪ PIPE, Side Sling Weldment	1
02	R97987D1	▪ HOSE, Side Sling Weldment	1
03	R97988D1	▪ PLATE, Washer	4
04	R98861D1	▪ ROPE, Wire Assembly	1
05	0825M24060	▪ BOLT, Hex Hd	12
06	R86393D18	▪ WASHER, Lock	12

INSTALLATION, RACK ASSEMBLY

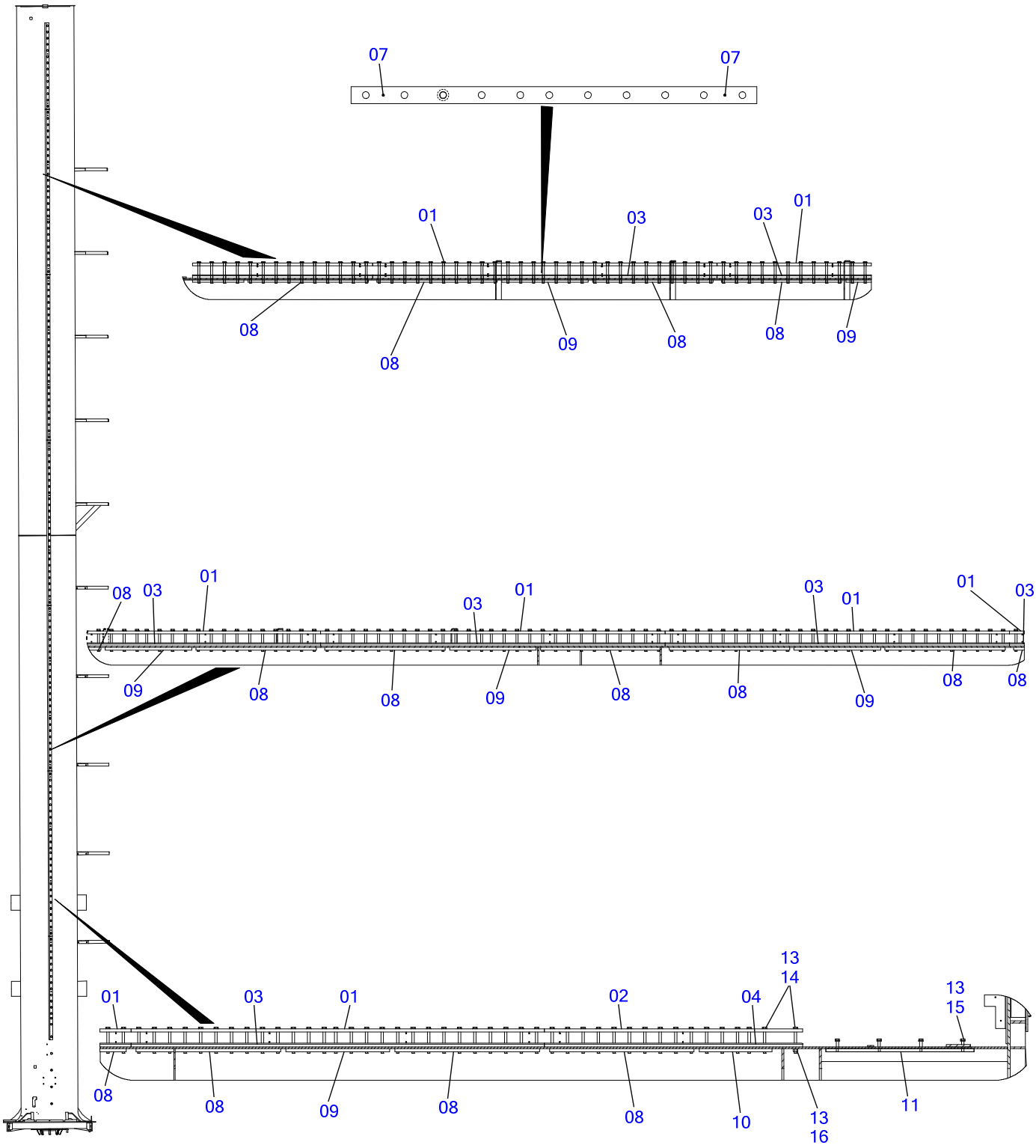




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INSTALLATION, RACK ASSEMBLY

INSTALLATION, RACK ASSEMBLY



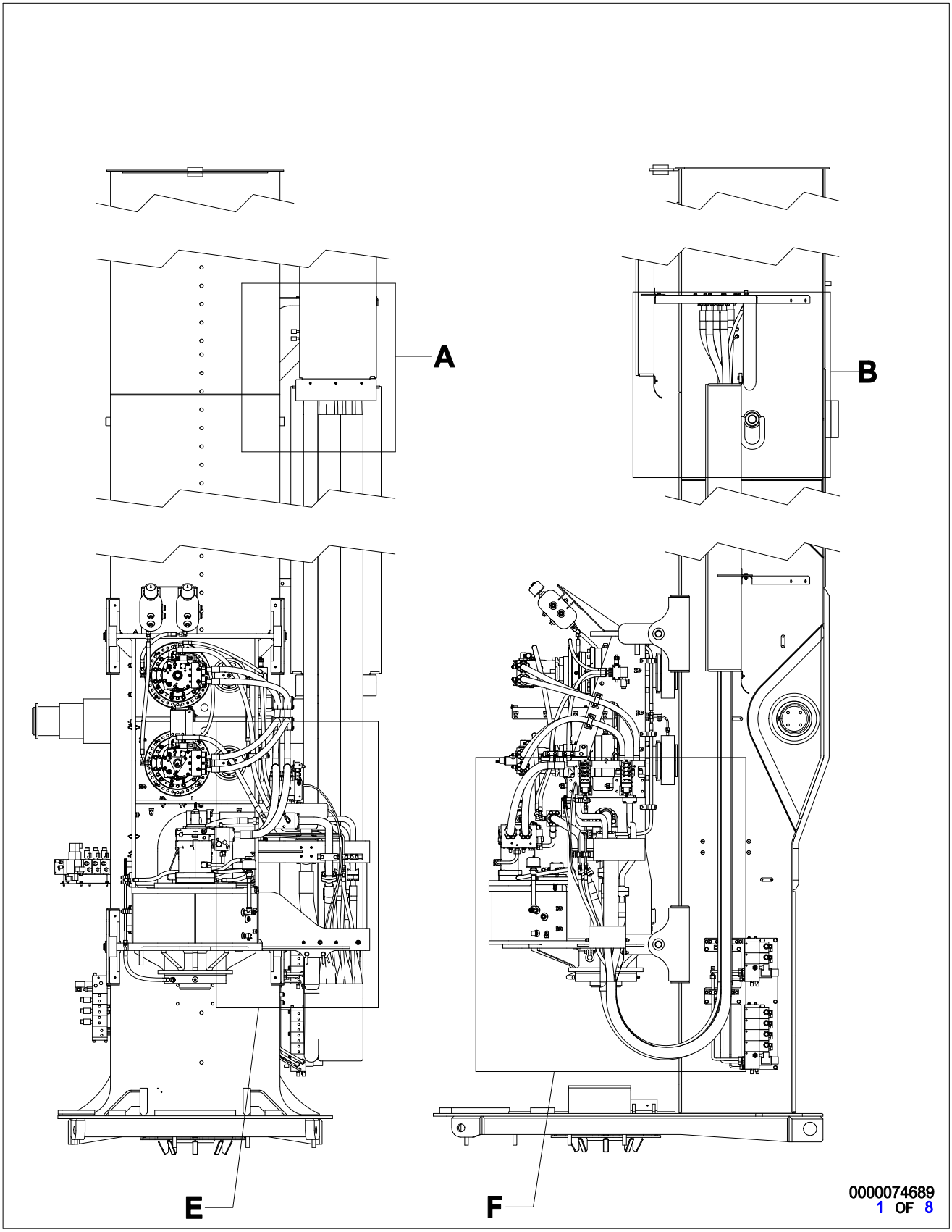
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INSTALLATION, RACK ASSEMBLY

INSTALLATION, RACK ASSEMBLY

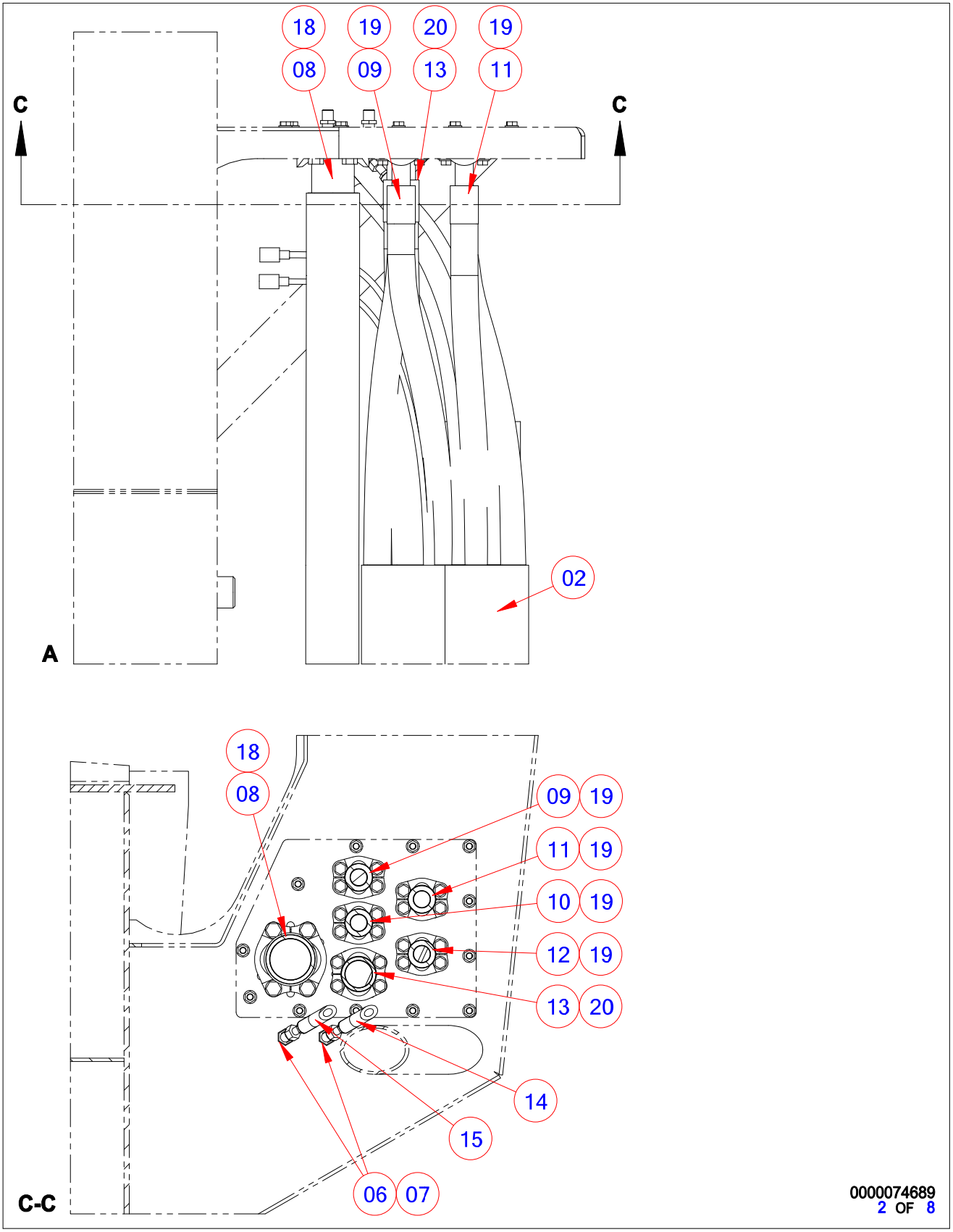
Item	Part No.	Description	Qty.
	R93465F1	INSTALLATION, RACK ASSEMBLY	
01	R93465D1	▪ RACK SEGMENT, 107 Teeth	6
02	R107506D1	▪ RACK SEGMENT, End	1
03	20H2995D27	▪ KEY	6
04	R93466D1	▪ RAIL, Rack Outer, 27 Holes	5
05	R93466D2	▪ RAIL, Rack Outer, 16 Holes	1
06	R93467D1	▪ RAIL, Rack Inner, 27 Holes	5
07	R93467D2	▪ RAIL, Rack Inner, 16 Holes	1
08	R93466D3	▪ RAIL, Rack Outer, 14 Holes	1
09	R93467D3	▪ RAIL, Rack Inner, 14 Holes	1
10	19Z138D30	▪ PIN, Dowel	48
11	R93468D1	▪ BAR, Tap Block, 10 Holes	12
12	R93468D2	▪ BAR, Tap Block, 7 Holes (Not Shown)	5
13	R93468D3	▪ BAR, Tap Block, 5 Holes	1
14	R93468D4	▪ BAR, Tap Block, 4 Holes	1
15	R93468D5	▪ BAR, Tap Block, 4 Holes	1
16	3648M020	▪ WASHER, Hardened	170
17	0825M20200	▪ BOLT, Hex Hd (Not Shown)	165
18	0825M20100	▪ BOLT, Hex Hd (Not Shown)	4
19	2104M020	▪ NUT, Hex (Not Shown)	4
20	21Z772D4	▪ COMPOUND, Sealing and Locking (Not Shown)	1

INSTALLATION, TRAVELING HOSES



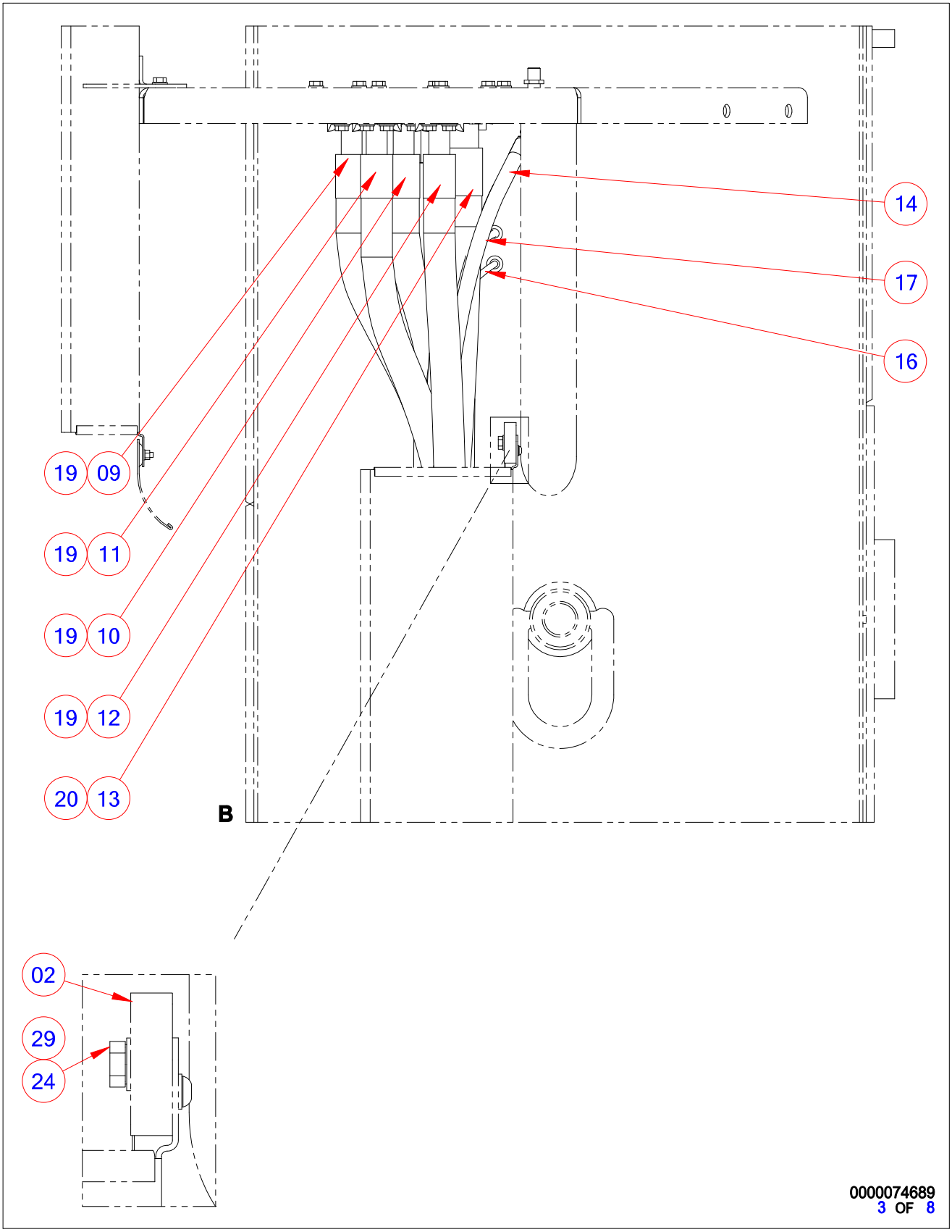
INSTL,TRAVELING HOSES

INSTALLATION, TRAVELING HOSES



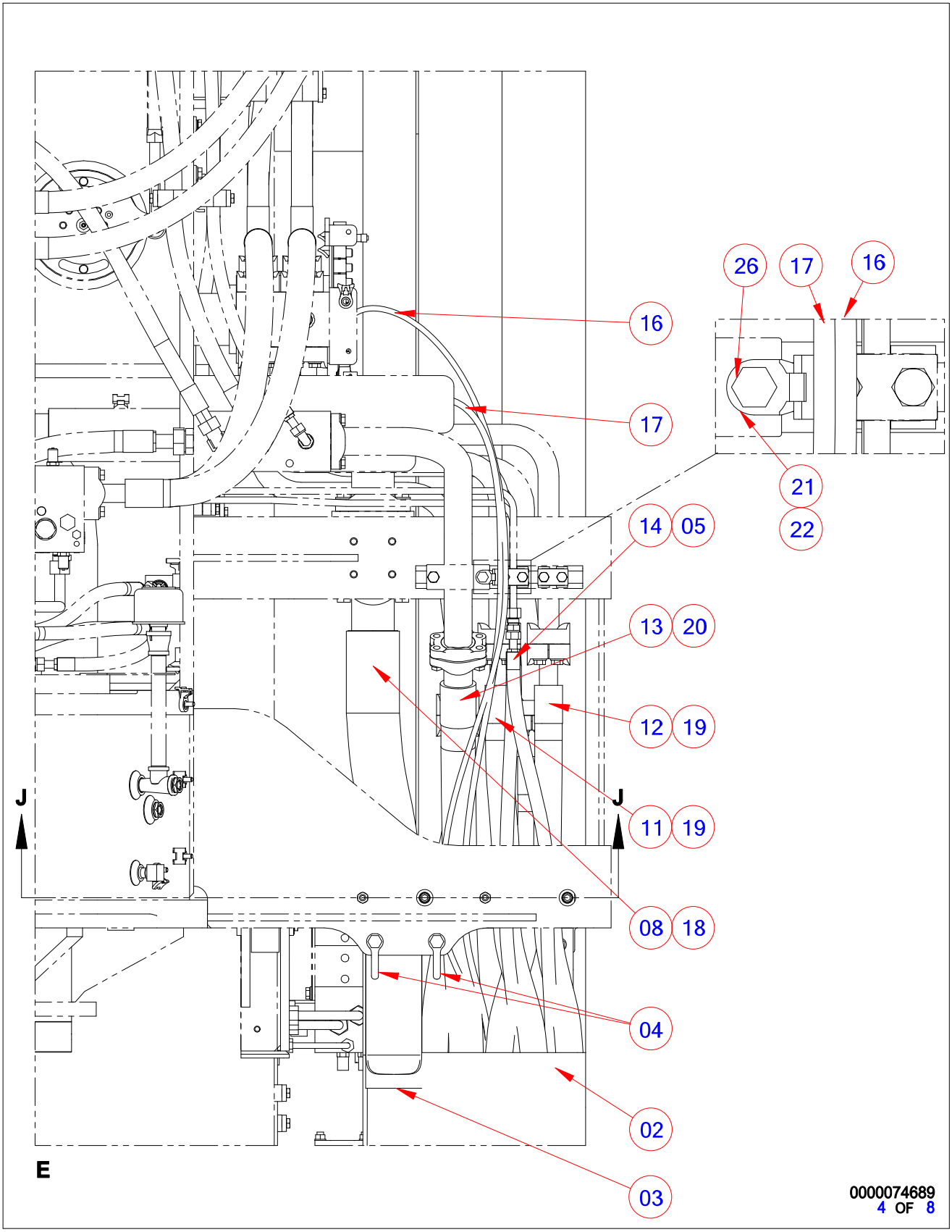
INSTL,TRAVELING HOSES

INSTALLATION, TRAVELING HOSES



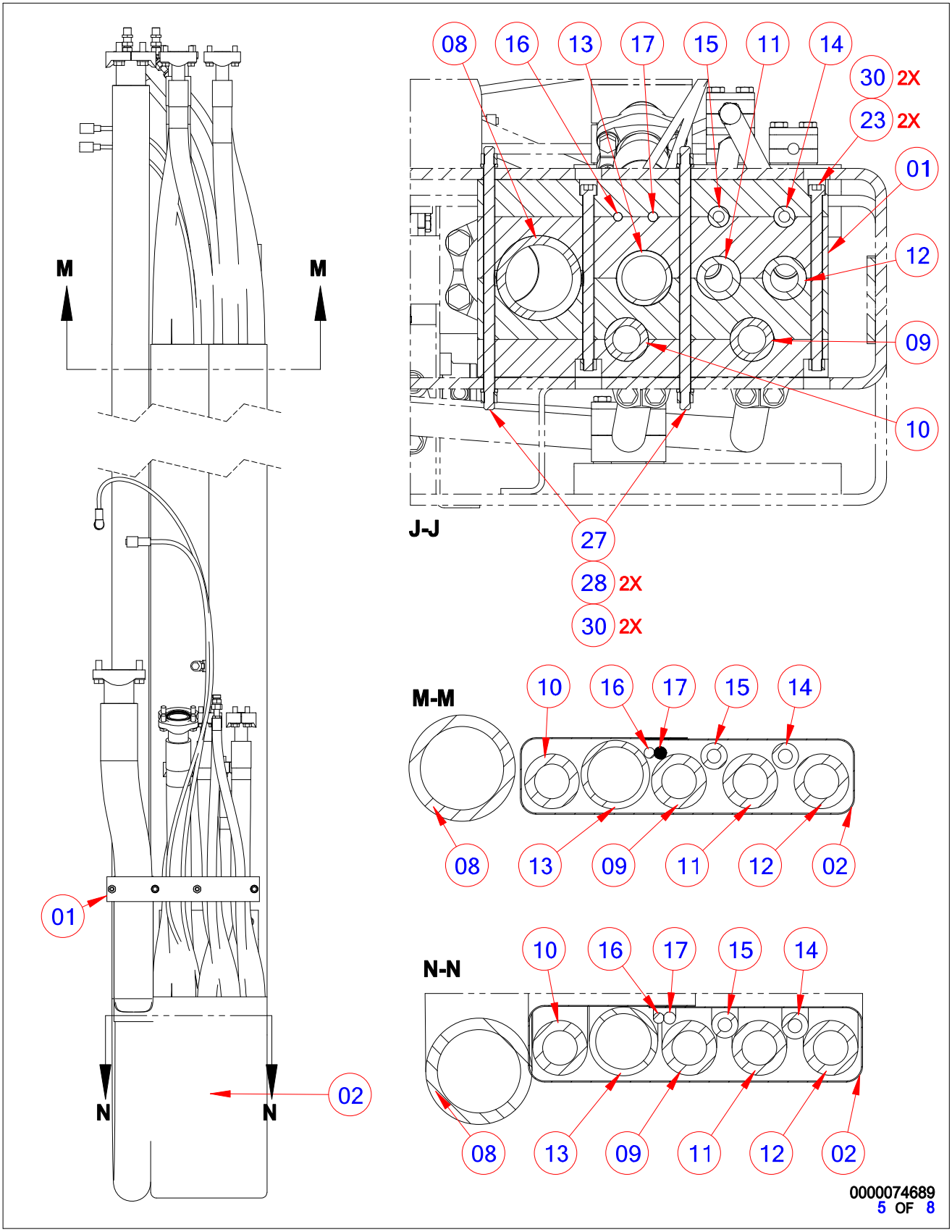
INSTL,TRAVELING HOSES

INSTALLATION, TRAVELING HOSES



INSTL,TRAVELING HOSES

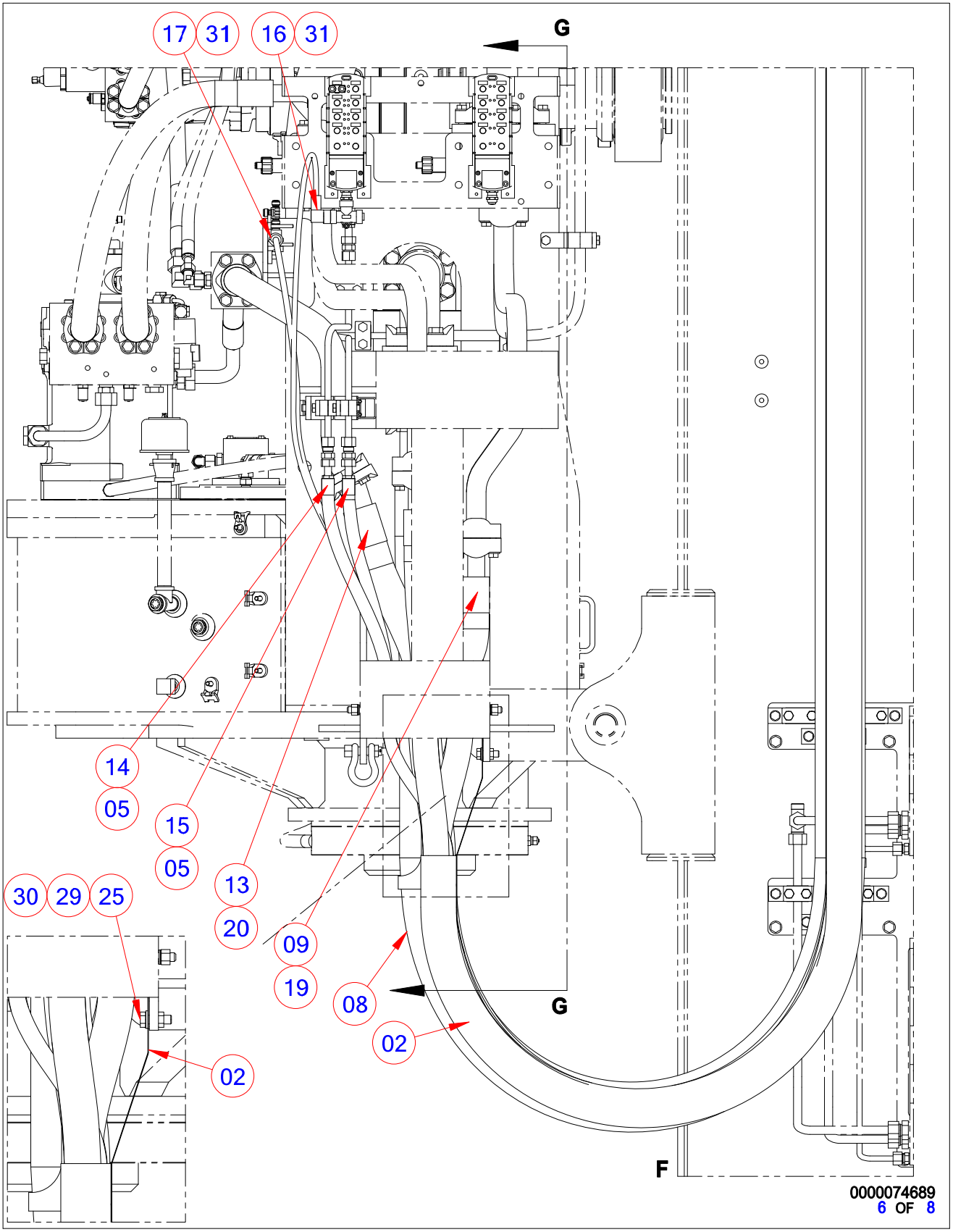
INSTALLATION, TRAVELING HOSES



INSTL,TRAVELING HOSES

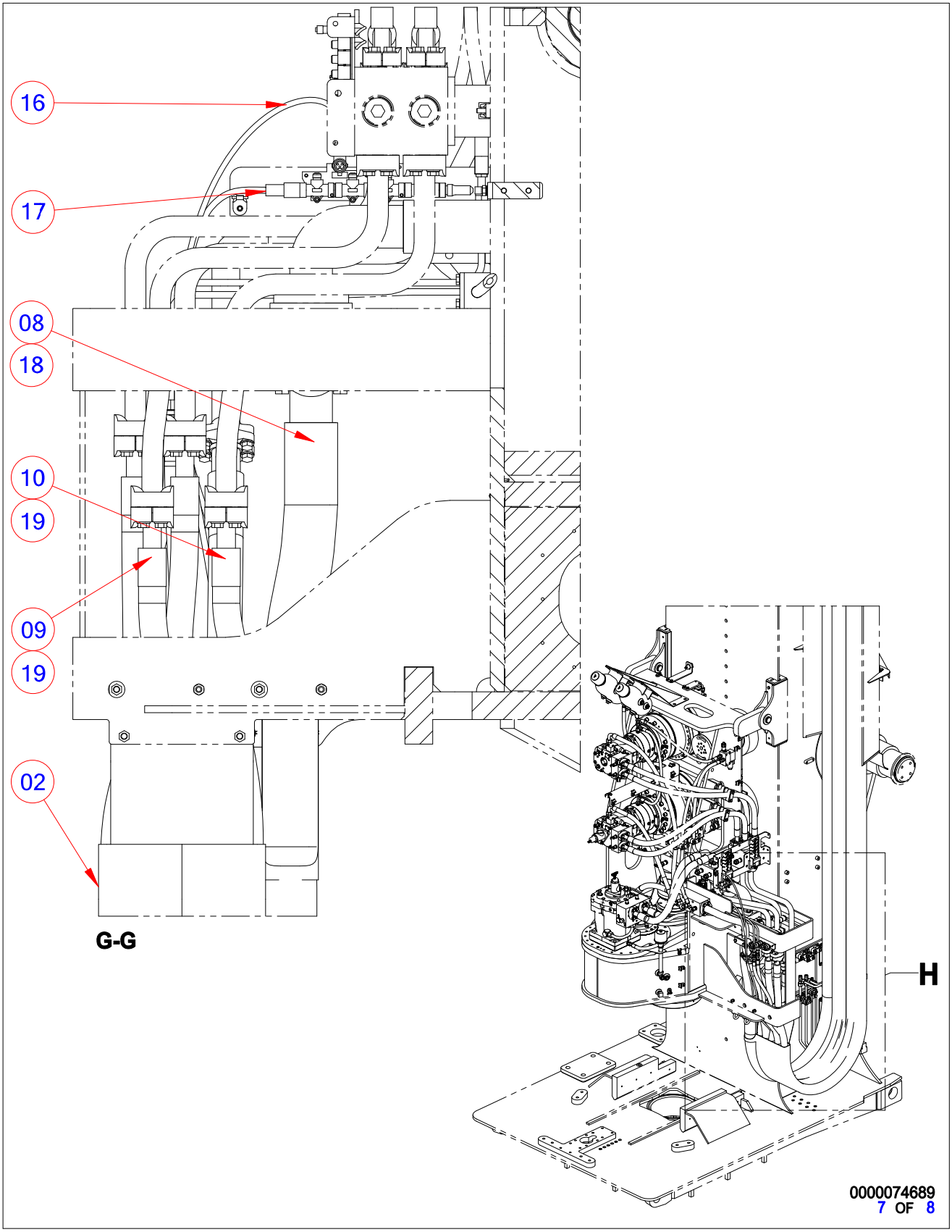
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INSTALLATION, TRAVELING HOSES



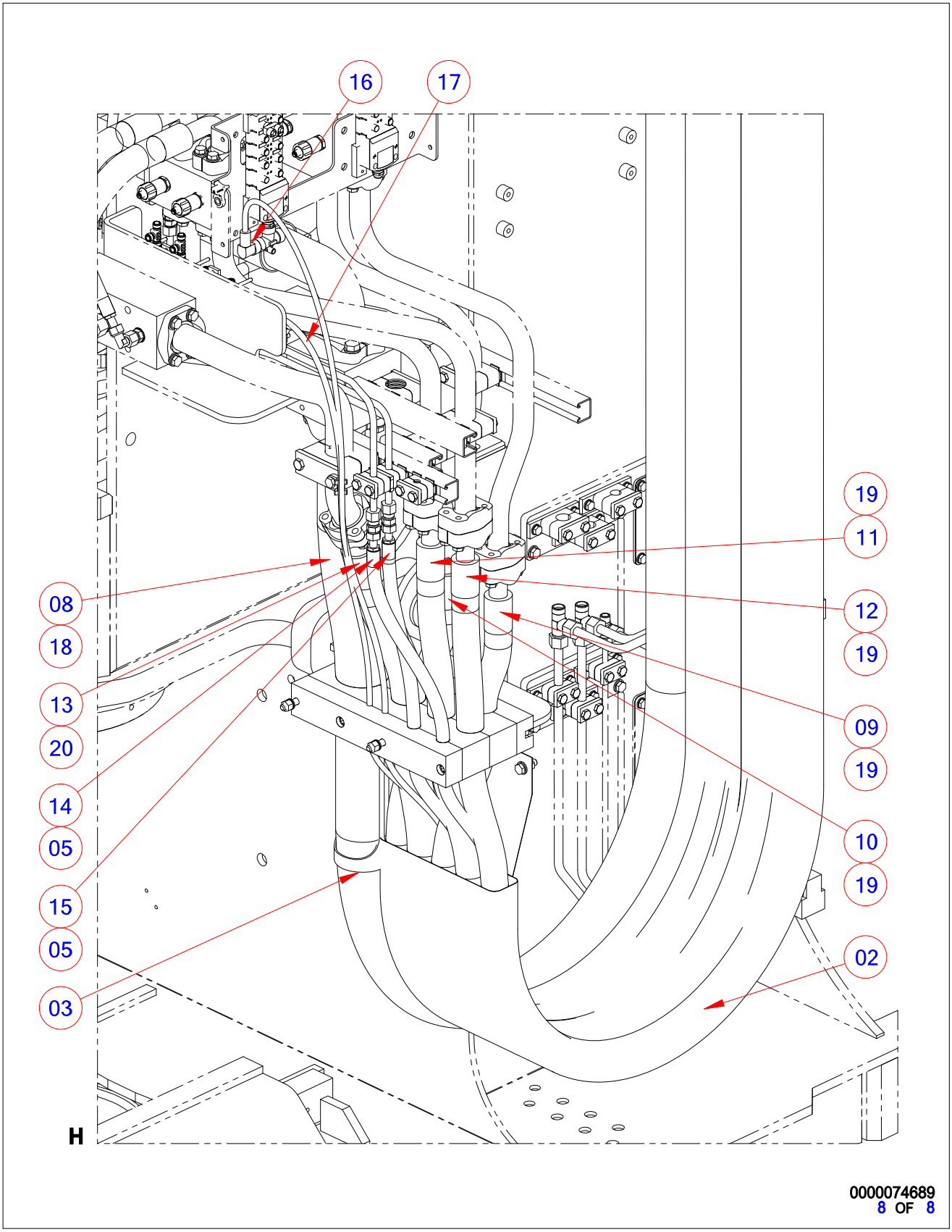
INSTL,TRAVELING HOSES

INSTALLATION, TRAVELING HOSES



INSTL,TRAVELING HOSES

INSTALLATION, TRAVELING HOSES

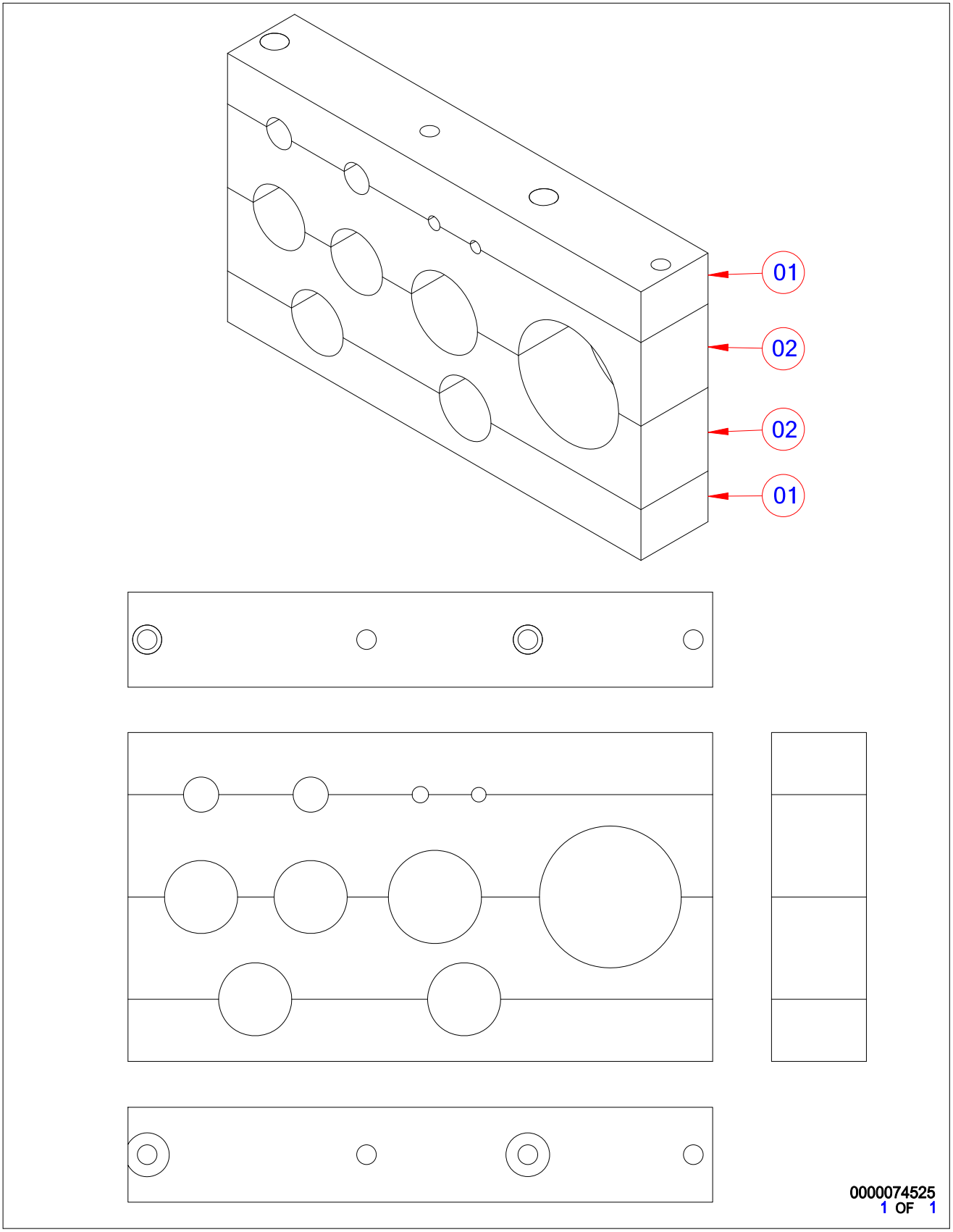


INSTL,TRAVELING HOSES

INSTALLATION, TRAVELING HOSES

Item	Part No.	Description	Qty.	Page
	R103257F1	INSTALLATION, TRAVELING HOSES		
01	R91274F1	• CLAMP, Cluster, Hose	1	321
02	R103355D1	• SLEEVE, Traveling Hoses	1	
03	R102240D1	• WHIP SOCK, 2 Eye	1	
04	R101917D2	• SHACKLE	2	
05	R89770D2	• CONNECTOR, Union	2	
06	R89775D2	• CONNECTOR, Union	2	
07	R89794D2	• CONNECTOR	2	
08	R98310T48D1392	• HOSE, Air	1	
09	R89786T20D1370	• HOSE ASSEMBLY	1	
10	R89786T20D1367	• HOSE ASSEMBLY	1	
11	R89786T20D1382	• HOSE ASSEMBLY	1	
12	R89786T20D1379	• HOSE ASSEMBLY	1	
13	R89789T32D1381	• HOSE ASSEMBLY	1	
14	R89780T08M20D1392	• HOSE ASSEMBLY	1	
15	R89780T08M20D1388	• HOSE ASSEMBLY	1	
16	R90655T11D1480	• CABLE, 3 Pin	1	
17	R90652T10D1450	• CABLE, 5 Pin	1	
18	R87258D8	• KIT, Split Flange	2	
19	R87259D4	• KIT, Split Flange	8	
20	R87258D6	• KIT, Split Flange	2	
21	R88247D2	• MOUNT, Single	1	
22	R88249D1	• TIE, Wire	3	
23	0630M12200	• SCREW, Socket Head	2	
24	0825M12020	• BOLT, Hex Hd	2	
25	0825M12035	• BOLT, Hex Hd	2	
26	0825M12120	• BOLT, Hex Hd	1	
27	R99966D1	• ROD	2	
28	R82264D21	• LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4	
29	3612M012	• WASHER, Plain	6	
30	2104M012	• NUT, Hex	8	
31	R90500D1	• LABELS, Wire, Mast, Cable Tray	1	

CLAMP, CLUSTER, HOSE

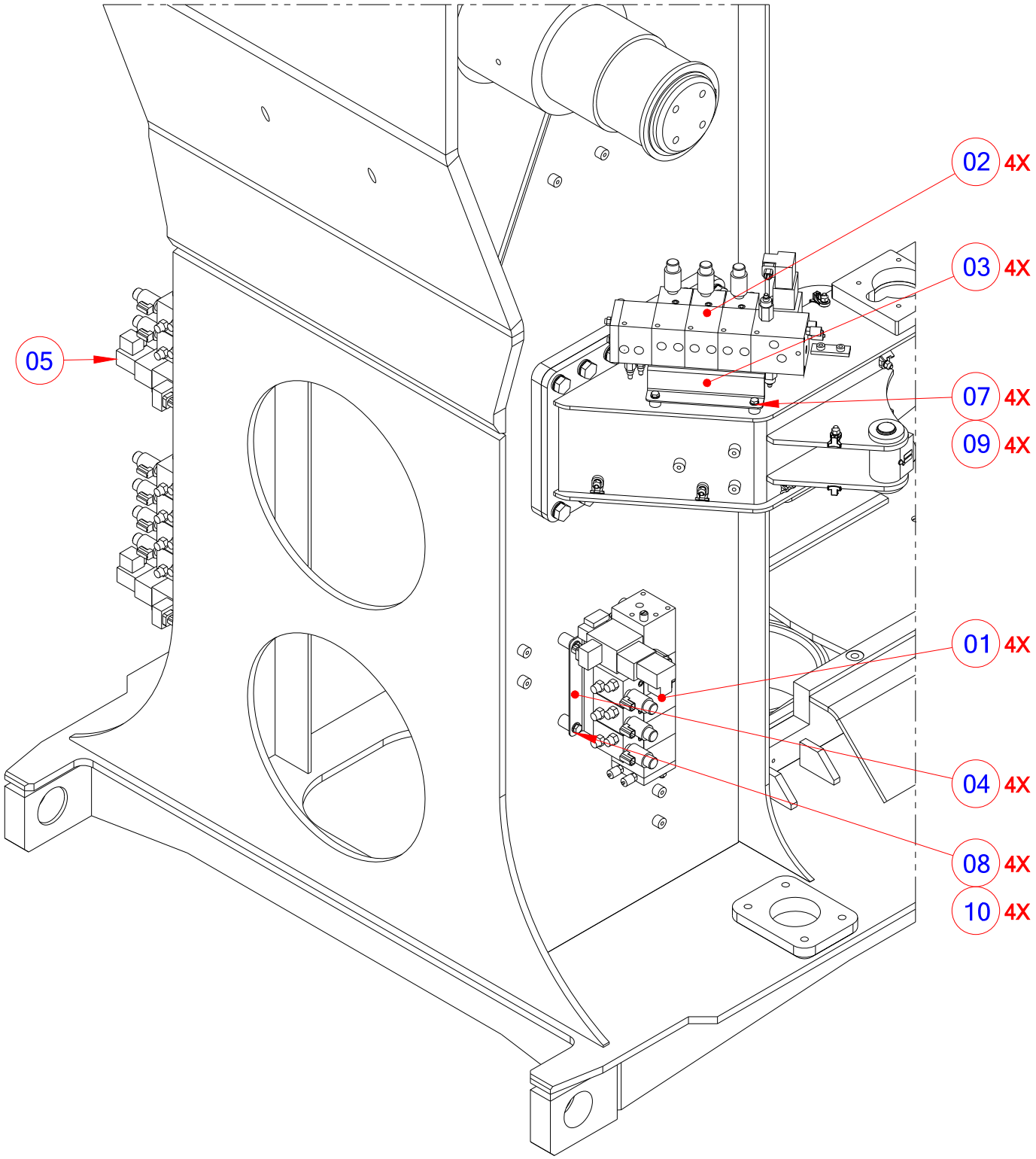


CLAMP, CLUSTER, HOSE

CLAMP, CLUSTER, HOSE

Item	Part No.	Description	Qty.
	R91274F1	CLAMP, CLUSTER, HOSE	
01	R91274D1	▪ BLOCK, Clamp	2
02	R91274D2	▪ BLOCK, Clamp	2

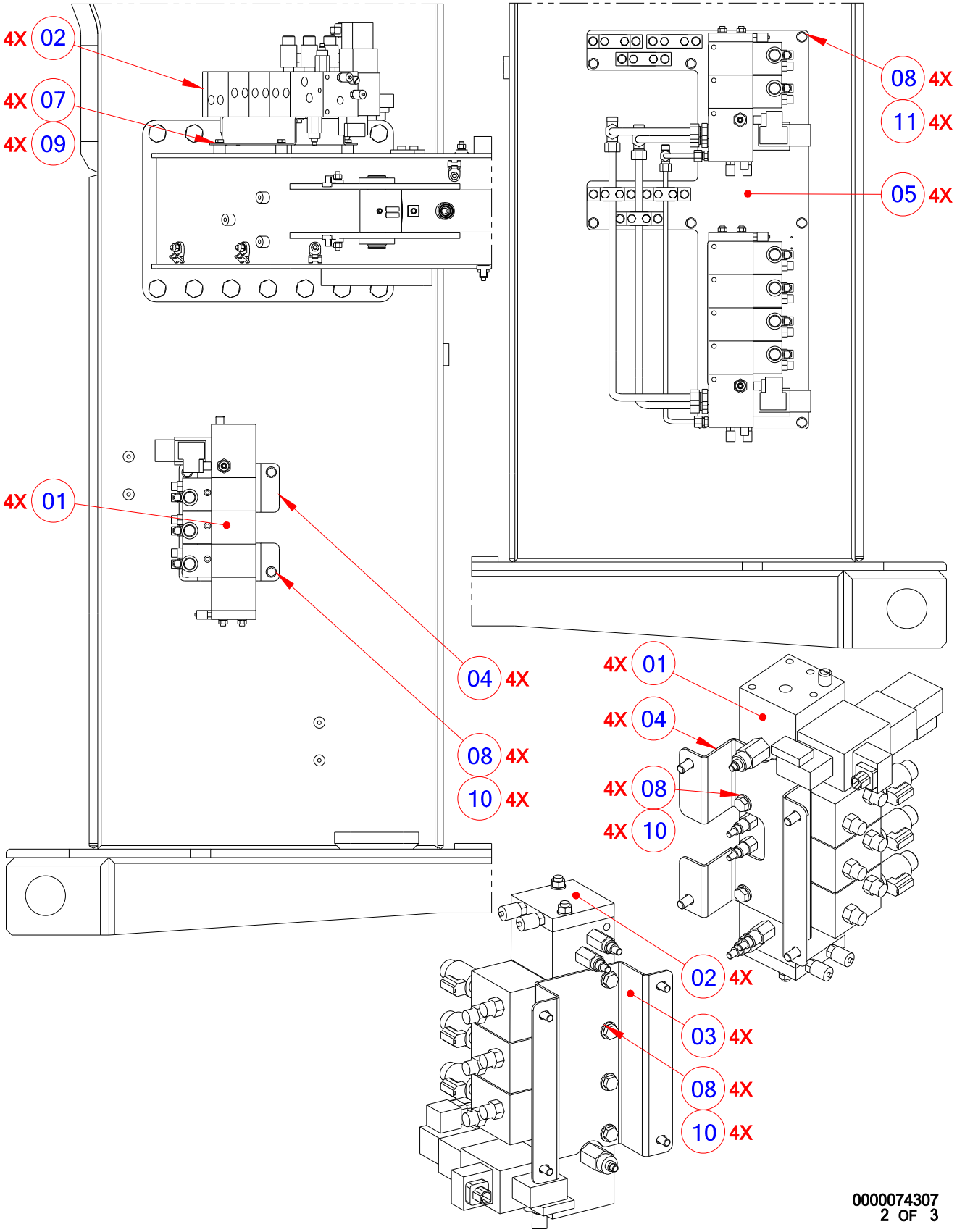
HYDRAULIC VALVE INSTALLATION, MAST



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1 OF 3

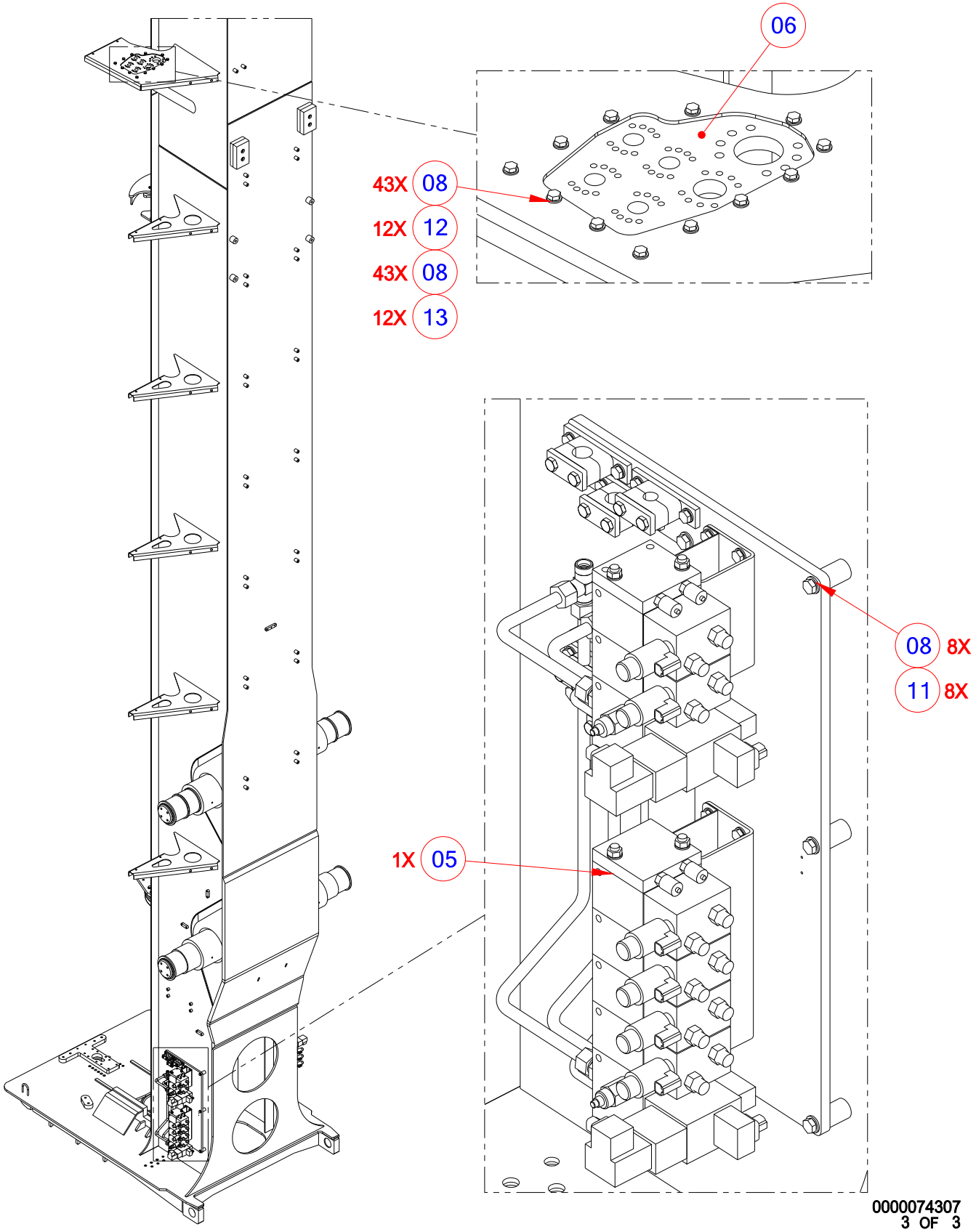
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HYDRAULIC VALVE INSTALLATION, MAST



HYDRAULIC VALVE INSTALL, MAST

HYDRAULIC VALVE INSTALLATION, MAST



HYDRAULIC VALVE INSTALL, MAST

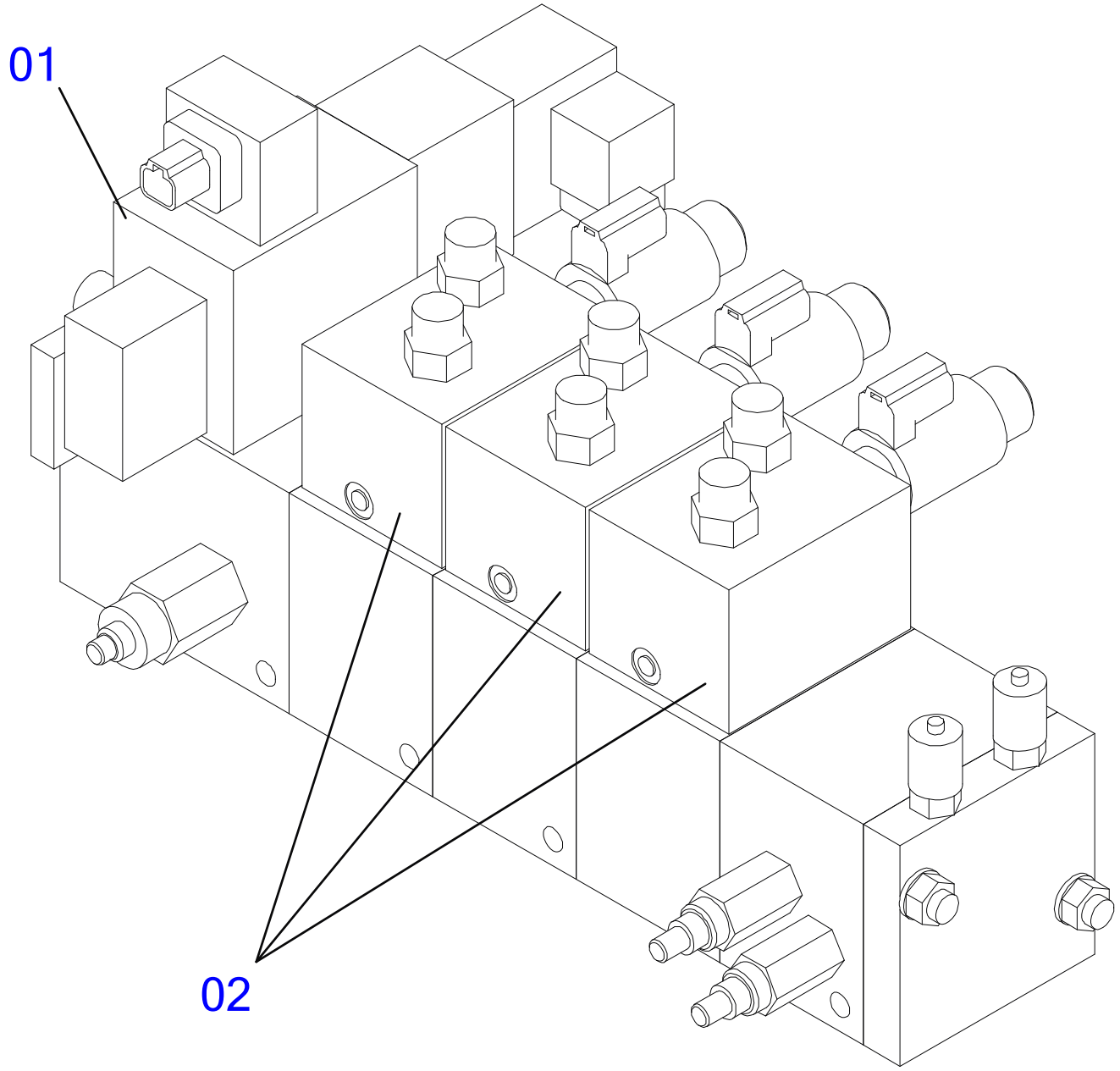
HYDRAULIC VALVE INSTALLATION, MAST

Item	Part No.	Description	Qty.	Page
	R91421F1	HYDRAULIC VALVE INSTALLATION, MAST		
01	R89813D1	· VALVE ASSEMBLY, Break Out Wrench	1	323
02	R89815D1	· VALVE ASSEMBLY, Pipe Carousel	1	324
03	R91422D1	· BRACKET, Valve Mounting	1	
04	R91422D2	· BRACKET, Valve Mounting	1	
05	R99056F1	· VALVE ASSEMBLY, Bit and Pipe Handling	1	325
06	R89910D1	· PLATE, Mast Routings	1	
07	3612M010	· WASHER, Plain	4	
08	3612M012	· WASHER, Plain	43	
09	0825M10020	· BOLT, Hex Hd	4	
10	0825M12025	· BOLT, Hex Hd	11	
11	0825M12040	· BOLT, Hex Hd	8	
12	0825M12055	· BOLT, Hex Hd	12	
13	2104M012	· NUT, Hex	12	

VALVE ASSEMBLY, BREAK OUT WRENCH

Item	Part No.	Description	Qty.
	R89813D1	VALVE ASSEMBLY, BREAK OUT WRENCH	
01	R110091D1	・VALVE, Proportional, 40 LPM	1
02	R91525D1	・VALVE, Selector	3
03	R9005941D1	・・VALVE, BVE 3-Way Cartridge	1
04	R9006023D1	・・・KIT, Seal	1
05	R9006024D1	・・・COIL, Solenoid, 24V	1
06	R9007242D1	・・VALVE, Element	2
07	R119599D18	・・・KIT, Seal	1
08	R9007256D1	・・RELIEF, Thermal	2
09	R9006041D2	・TIE ROD	2
10	R9006045D1	・RELIEF, Cartridge	2
11	R9006044D1	・VALVE, Sequence Cartridge	2
10A	R119599D145	・・KIT, Cartridge Valve Seal	1
12	R9006038D1	・VALVE, Counterbalance Cartridge	2
11A	R119599D18	・・KIT, Cartridge Valve Seal	1
13	R9006034D1	・VALVE, Pressure Reducing	1
12A	R119599D133	・・KIT, Cartridge Valve Seal	1
14	R9007289D1	・KIT, Seal	1
15	R9007290D1	・KIT, Seal	4
16	R9007291D1	・KIT, Seal	3
17	R9007292D1	・KIT, Seal	1
18	R9007293D1	・KIT, FPH	2
19	0830M08065	・SCREW, Socket Hd	12
20	0830M08090	・SCREW, Socket Hd	4

VALVE ASSEMBLY, PIPE CAROUSEL

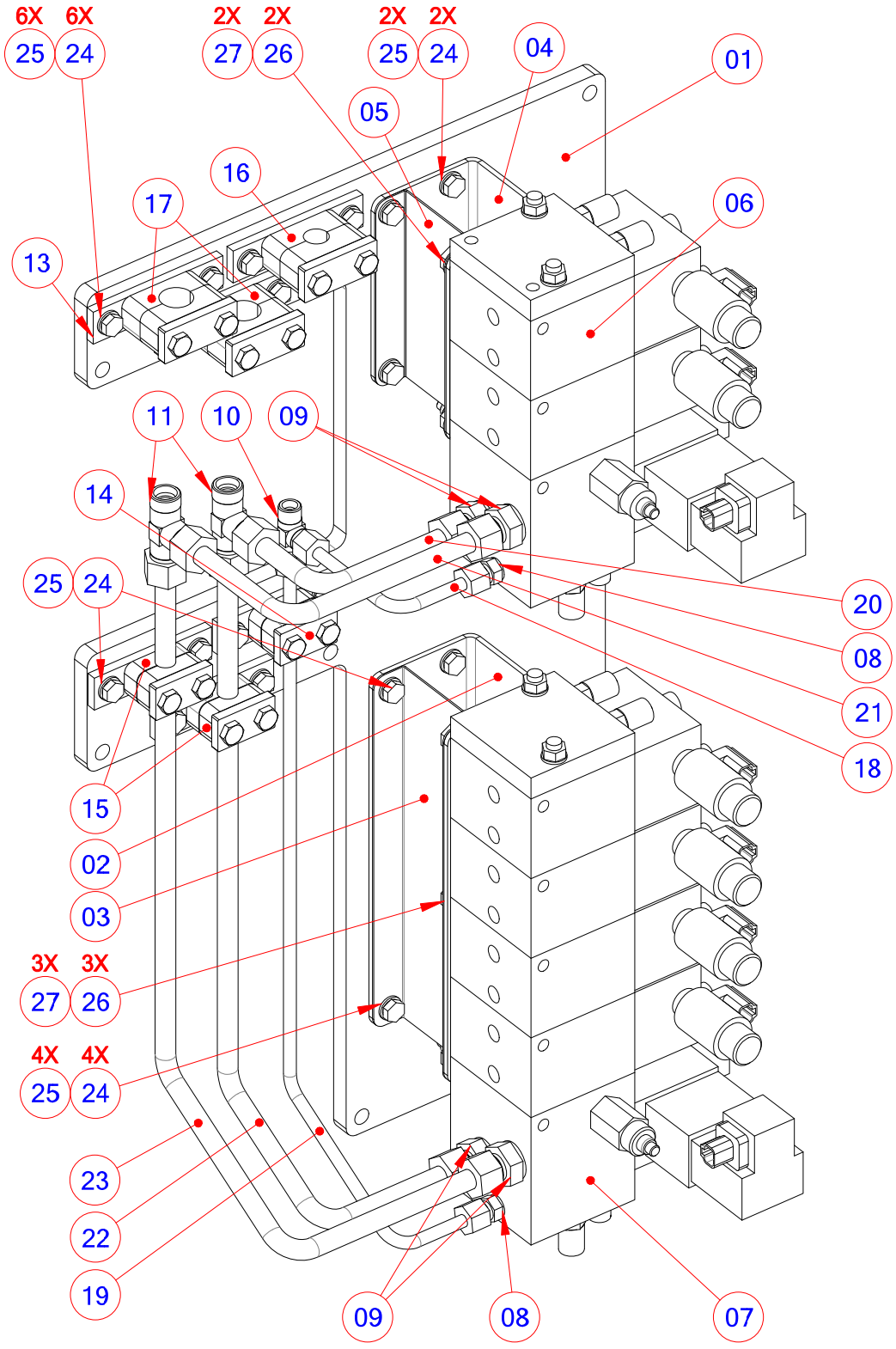


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VALVE ASSEMBLY, PIPE CAROUSEL

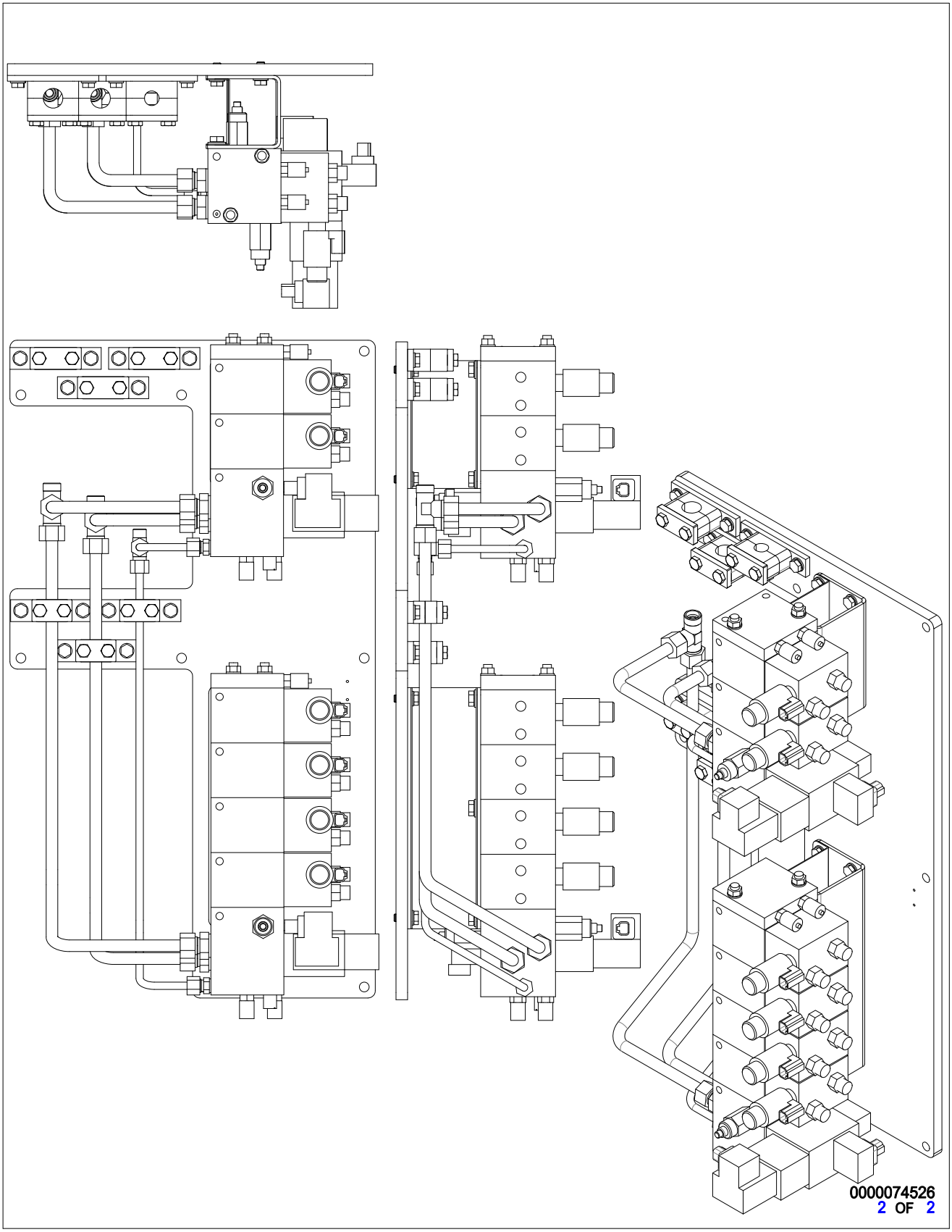
Item	Part No.	Description	Qty.
	R89815D1	VALVE ASSEMBLY, PIPE CAROUSEL	
01	R105809D1	▪ VALVE, Proportional, 63 LPM	1
02	R91525D1	▪ VALVE, Selector	3

VALVE ASSEMBLY, BIT AND PIPE HANDLING



VALVE ASSEMBLY, BIT AND PIPE HANDLING

VALVE ASSEMBLY, BIT AND PIPE HANDLING

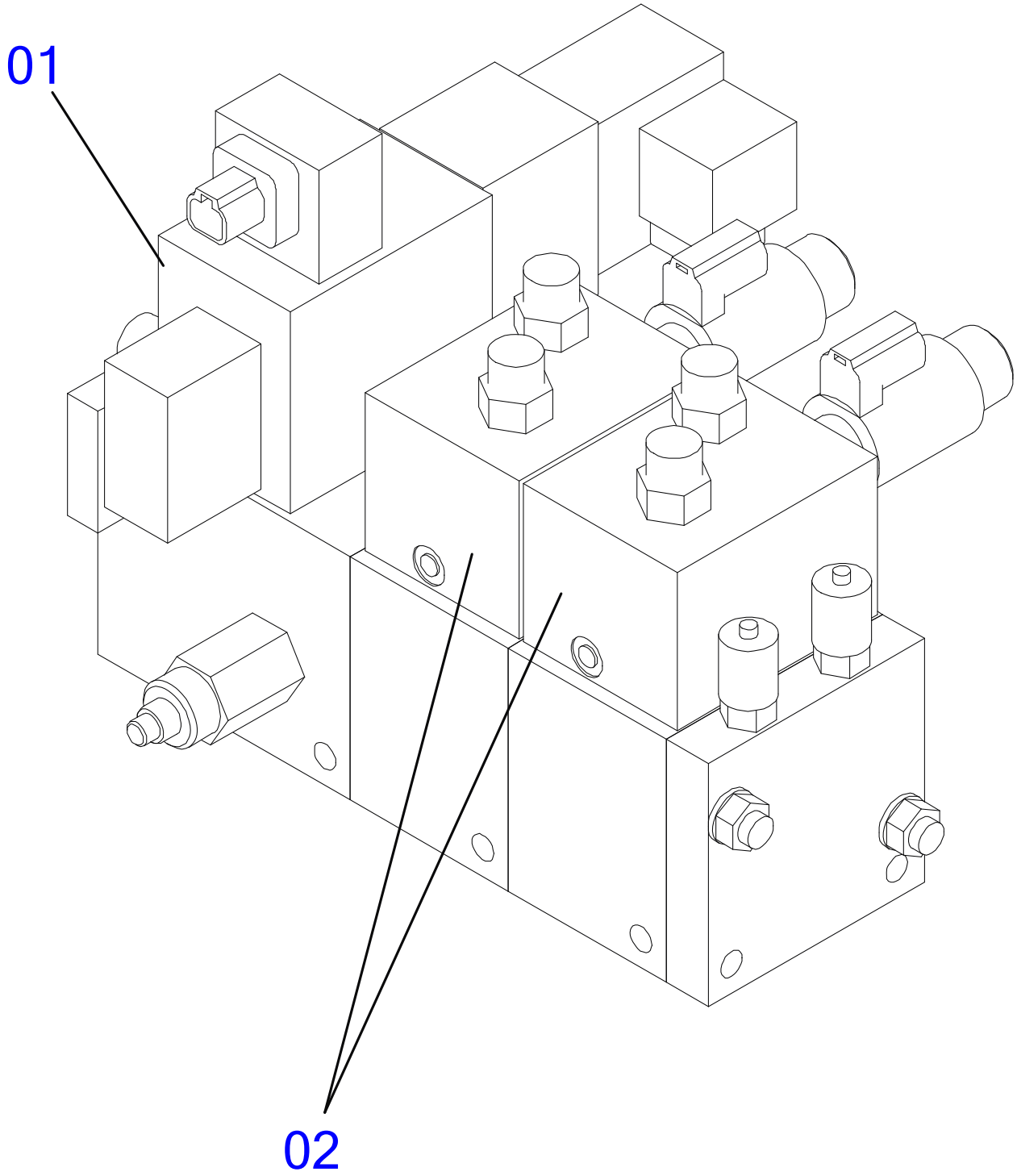


VALVE ASSEMBLY, BIT AND PIPE HANDLING

VALVE ASSEMBLY, BIT AND PIPE HANDLING

Item	Part No.	Description	Qty.	Page
	R99056F1	VALVE ASSEMBLY, BIT AND PIPE HANDLING		
01	R99053D1	▪ PLATE, Valve Assembly Mounting	1	
02	R99055D1	▪ BRACKET, Valve Mounting	1	
03	R99055D2	▪ SUPPORT, Valve Bracket	1	
04	R99054D1	▪ BRACKET, Valve Mounting	1	
05	R99054D2	▪ BRACKET, Valve Mounting	1	
06	R89816D1	▪ VALVE ASSEMBLY, Bit Carousel	1	326
07	R89817D1	▪ VALVE ASSEMBLY, Bit/Pipe Handling	1	327
08	R89792D1	▪ CONNECTOR	2	
09	R89792D11	▪ CONNECTOR	4	
10	R89773D1	▪ UNION	1	
11	R89773D3	▪ UNION	2	
12	R88880D1	▪ BASE, Clamp	3	
13	R88880D2	▪ BASE, Clamp	3	
14	R78952D3	▪ CLAMP	1	
15	R78952D7	▪ CLAMP	2	
16	R78953D15	▪ CLAMP	1	
17	R78953D20	▪ CLAMP	2	
18	R89905D1	▪ TUBE ASSEMBLY	1	
19	R89905D2	▪ TUBE ASSEMBLY	1	
20	R89906D1	▪ TUBE ASSEMBLY	1	
21	R89906D2	▪ TUBE ASSEMBLY	1	
22	R89906D3	▪ TUBE ASSEMBLY	1	
23	R89906D4	▪ TUBE ASSEMBLY	1	
24	3612M010	▪ WASHER, Plain	20	
25	0825M10025	▪ BOLT, Hex Hd	20	
26	3612M012	▪ WASHER, Plain	5	
27	0825M12025	▪ BOLT, Hex Hd	5	

VALVE ASSEMBLY, BIT CAROUSEL



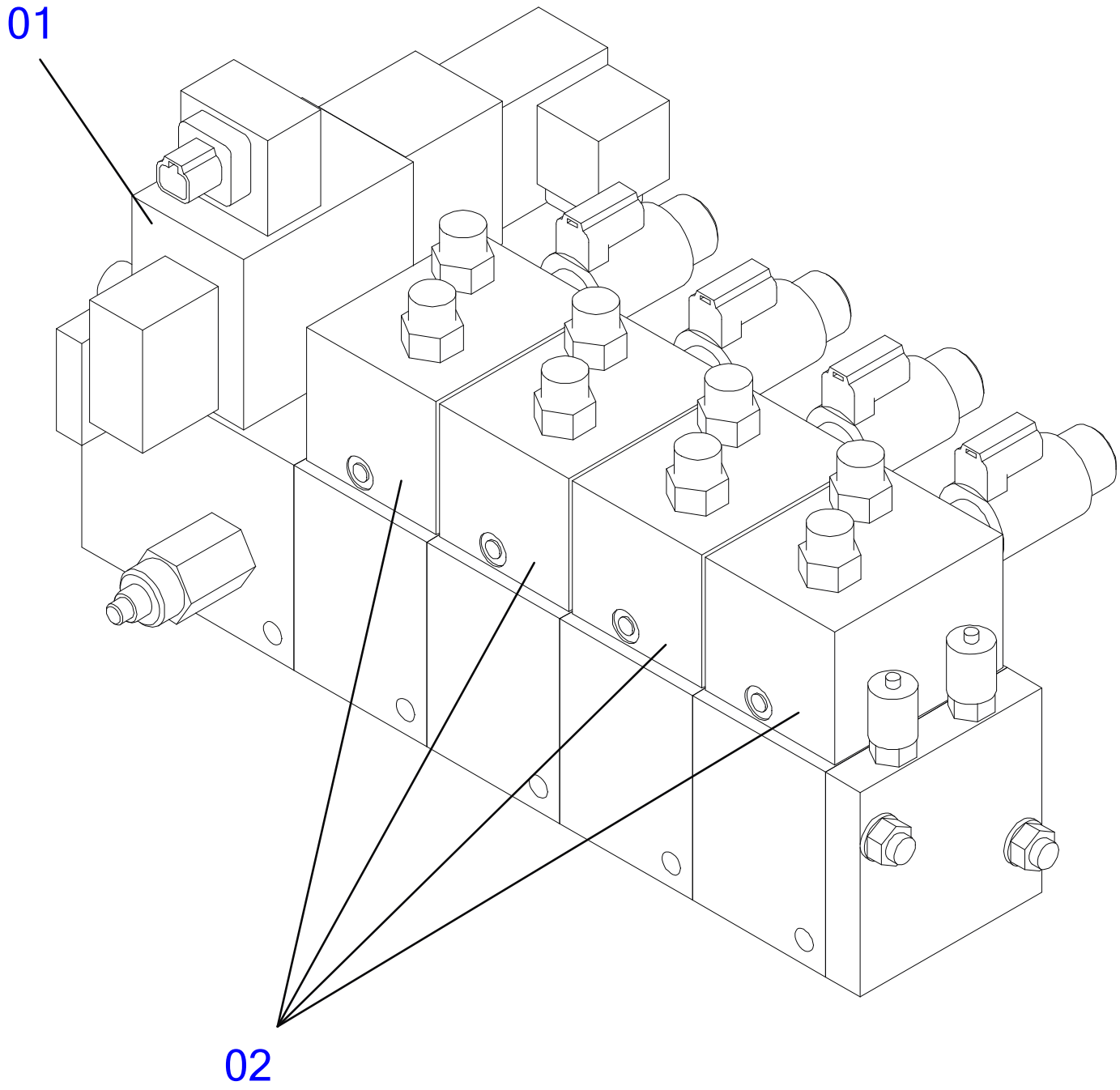
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VALVE ASSEMBLY, BIT CAROUSEL

VALVE ASSEMBLY, BIT CAROUSEL

Item	Part No.	Description	Qty.
	R89816D1	VALVE ASSEMBLY, BIT CAROUSEL	
01	R105810D1	▪ VALVE, Proportional, 40 LPM	1
02	R91525D1	▪ VALVE, Selector	2

VALVE ASSEMBLY, BIT/PIPE HANDLING



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VALVE ASSEMBLY, BIT/PIPE HANDLING

Item	Part No.	Description	Qty.
	R89817D1	VALVE ASSEMBLY, BIT/PIPE HANDLING	
01	R105809D1	▪ VALVE, Proportional, 63 LPM	1
02	R91525D1	▪ VALVE, Selector	4

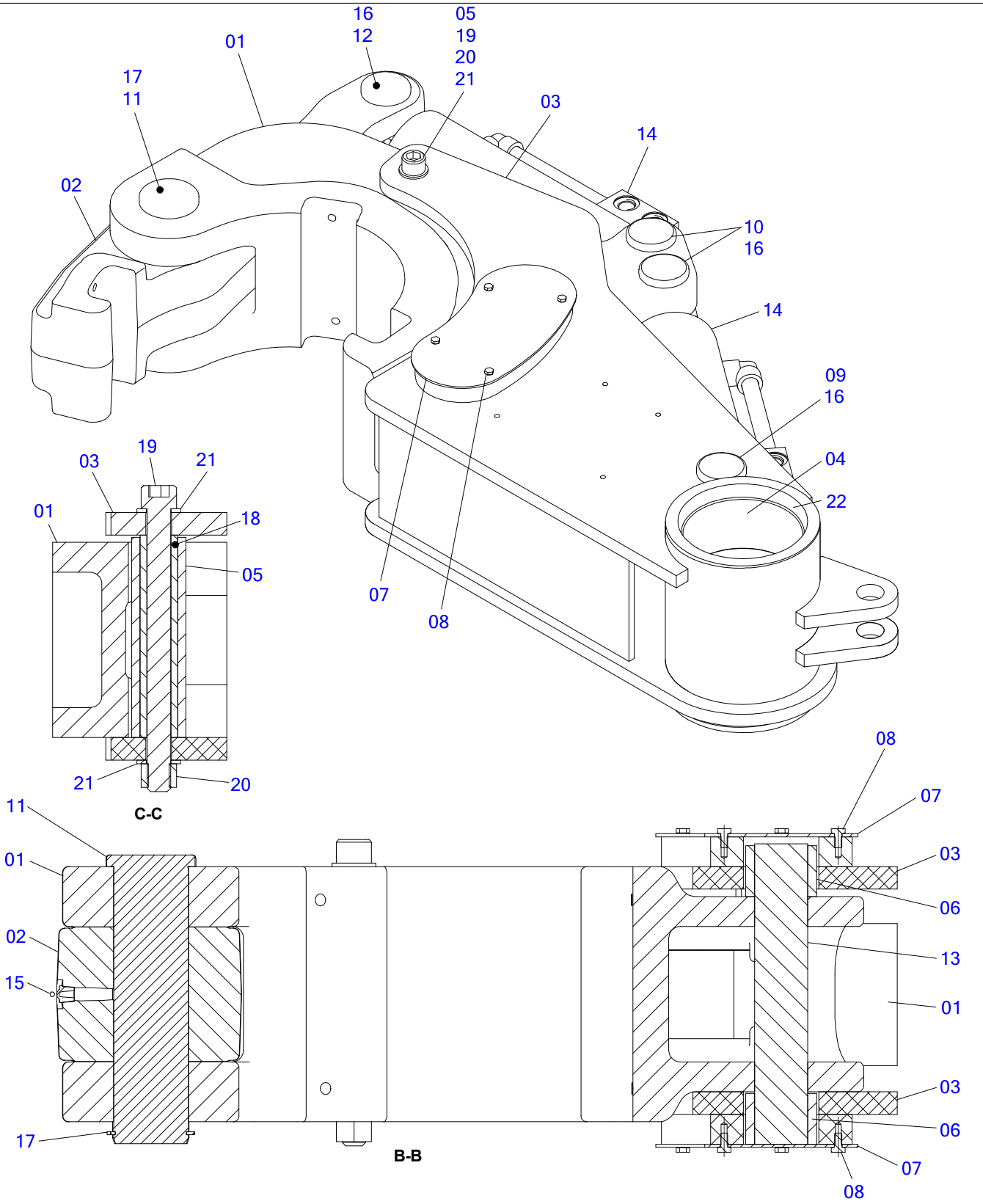
CONTAINMENT, MAST DUST

Item	Part No.	Description	Qty.
	R110815F1	CONTAINMENT, MAST DUST	
01	R90783D1	▪ DEFLECTOR, Chip	1
02	R110816D1	▪ HOLDER, Deflector	1
03	0825M10075	▪ BOLT, Hex Hd	4
04	3612M010	▪ WASHER, Plain	4
05	21Z772D4	▪ COMPOUND, Sealing and Locking	1

BREAKOUT WRENCH INSTALLATION

Item	Part No.	Description	Qty.	Page
	R98887F1	BREAKOUT WRENCH INSTALLATION		
01	R98730D2	▪ STAND, Breakout Wrench	1	
02	R98737F1	▪ ASSEMBLY, Breakout Wrench	1	330
03	R98740D2	▪ BUSHING, Carrier	2	
04	R98820D1	▪ PIN	1	
05	R98820D2	▪ PIN	1	
06	R98733D1	▪ PIN ASSEMBLY, Breakout Wrench	1	
07	3648M020	▪ WASHER, Hardened	8	
08	0825M20070	▪ BOLT, Hex Head	8	
09	R91203D1	▪ SNAP RING, Internal,165mm	2	
10	R90383D1	▪ SWING CYLINDER, Breakout Wrench	1	333
11	R98736D2	▪ CARRIER, Breakout Wrench	1	334
12	R89724D35	▪ SNAP RING, External, 35mm	2	
13	R91716D1	▪ DECALS, Pipe Breakout Wrench	1	
14	R109160D4	▪ SHIM, 3mm	2	
15	R109160D5	▪ SHIM, 1.5mm	2	
16	R109160D6	▪ SHIM, 0.6mm	2	
17	R109160D1	▪ SHIM, 3mm	2	
18	R109160D2	▪ SHIM, 1.5mm	2	
19	R109160D3	▪ SHIM, 0.6mm	2	

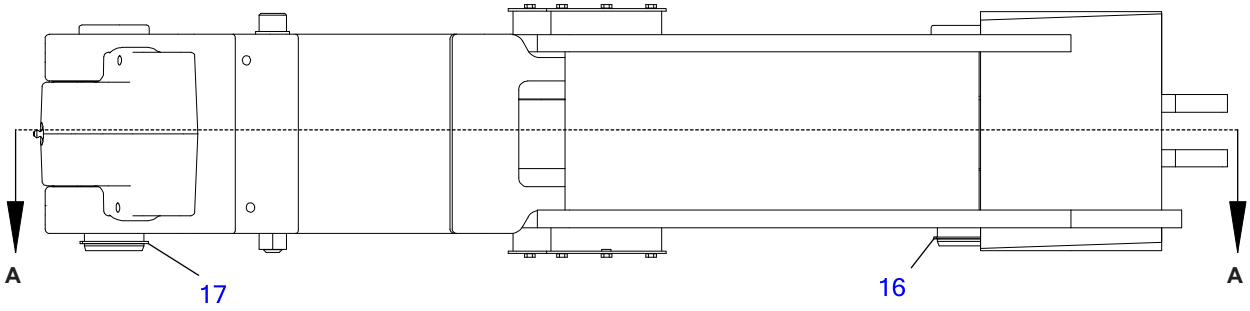
BREAKOUT WRENCH ASSEMBLY

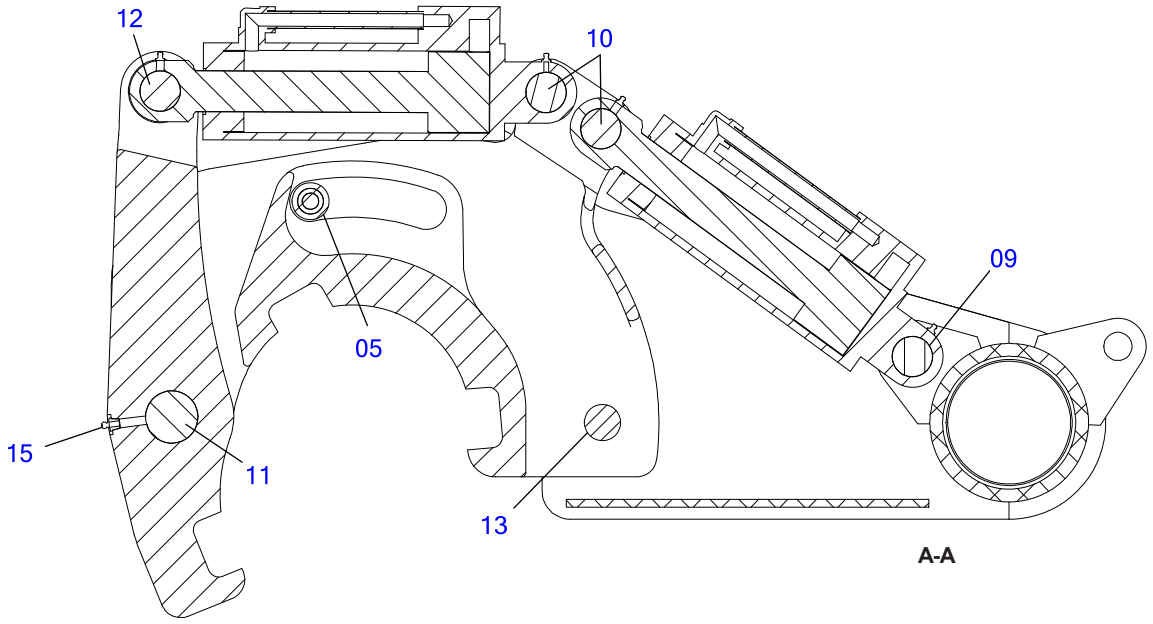


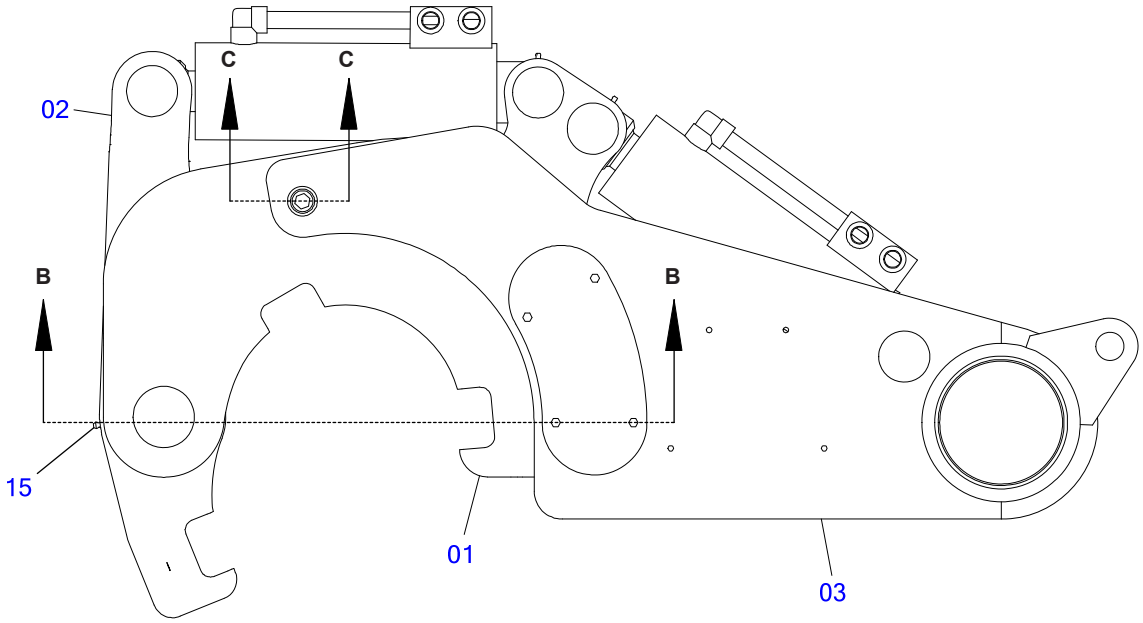
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1 OF 2

BREAKOUT WRENCH ASSEMBLY

BREAKOUT WRENCH ASSEMBLY





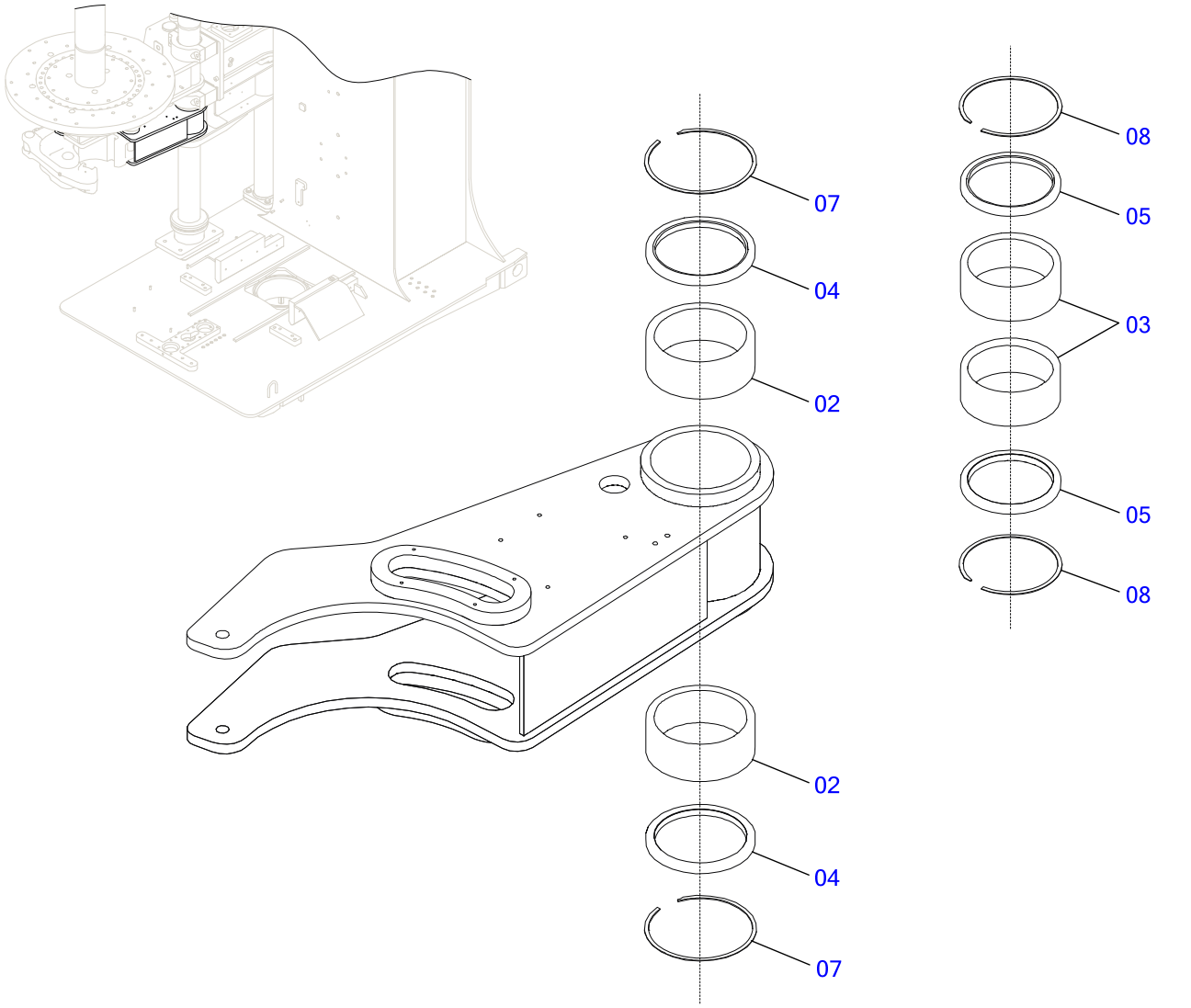


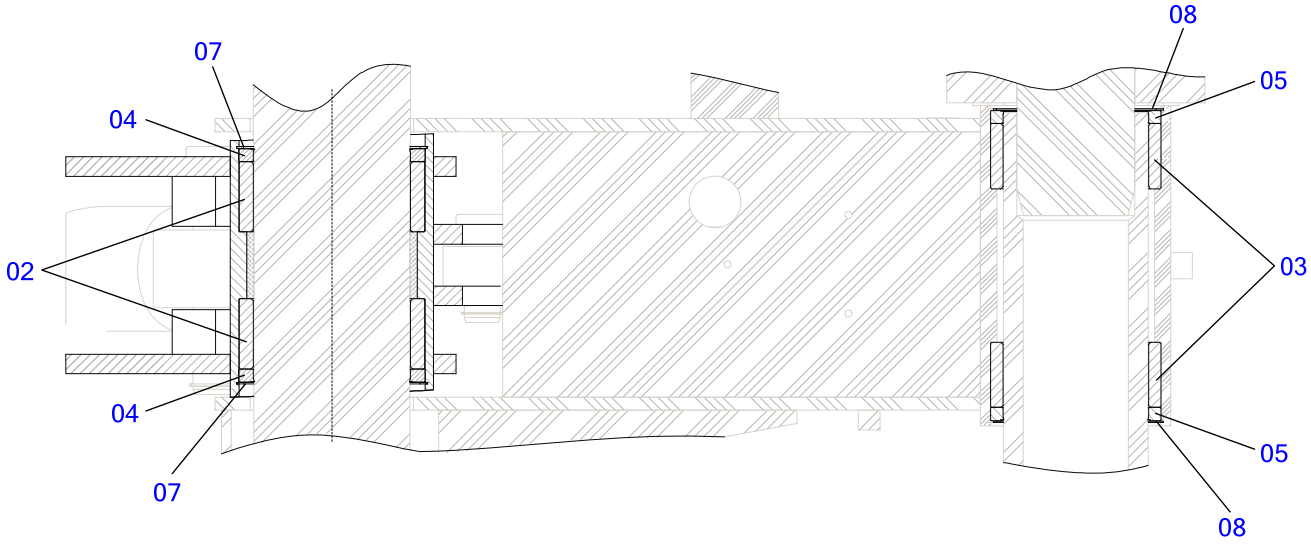
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2 OF 2

BREAKOUT WRENCH ASSEMBLY

Item	Part No.	Description	Qty.	Page
	R98737F1	BREAKOUT WRENCH ASSEMBLY		
01	R98781D2	· WRENCH, Breakout	1	
02	R98848D2	· JAW, Breakout Wrench	1	
		NOTE: This assembly has been modified by kit R9005815F1 and is not as originally supplied.	1	331
03	R9006282D2	· ARM, Breakout Wrench	1	
04	R9005814D1	· BUSHING, Swing Arm	2	
05	R98741D1	· BUSHING, Guide, Long	1	
06	R98741D2	· BUSHING, Guide, Short	2	
07	R89797D1	· COVER, Guide	2	
08	0825M06012	· BOLT, Hex Hd	8	
09	R98820D3	· PIN	1	
10	R98820D4	· PIN	2	
11	R98820D6	· PIN	1	
12	R98820D7	· PIN	1	
13	R98820D8	· PIN	1	
14	R90382D1	· CYLINDER, Breakout Wrench	2	332
15	44Z1D14	· FITTING, Lube	1	
16	R89724D50	· RING, External Snap	4	
17	R89724D65	· SNAP RING, External, Metric	1	
18	R99119D1	· SPACER, Breakout Wrench	1	
19	0630M20240	· SCREW, Socket Head	1	
20	2104M020	· NUT, Hex	1	
21	3612M020	· WASHER, Plain	2	
22	R94374D1	· RING, Snap	2	

SEALS KIT, BREAKOUT WRENCH





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SEALS KIT, BREAKOUT WRENCH

SEALS KIT, BREAKOUT WRENCH

Item	Part No.	Description	Qty.
	R9005815F1	SEALS KIT, BREAKOUT WRENCH	
01	R9006282D2	▪ ARM, Breakout Wrench	1
02	R9005814D1	▪ BUSHING, Swing Arm	2
03	R9005814D2	▪ BUSHING, Carrier	2
04	R9005570D1	▪ SEAL, Wiper	2
05	R9005571D1	▪ SEAL, Wiper	2
06	44Z1D14	▪ FITTING, Lube	1
07	R94374D1	▪ RING, Snap	2
08	R91203D1	▪ SNAP RING, Internal	2

CYLINDER, BREAKOUT WRENCH

Item	Part No.	Description	Qty.
	R90382D1	CYLINDER, BREAKOUT WRENCH BREAK	
01	R9005457D1	▪ ROD	1
02	R9005458D1	▪ PISTON	1
03	R9005459D1	▪ GLAND HEAD	1
04	R9005460D1	▪ SEAL KIT	1
05	R9005461D1	▪ HARDWARE KIT	1
06	44Z1D10	▪ FITTING, Lube	1

KOMATSU

CYLINDER,BREAKOUT WRENCH,SWING

Item	Part No.	Description	Qty.
	R90383D1	CYLINDER, Breakout Wrench Swing	
01	R90577D1	・ SWITCH, Proximity	1
02	R9005452D1	・ ROD	1
03	R9005453D1	・ PISTON	1
04	R9005454D1	・ HEAD, Gland	1
05	R9005455D1	・ SEAL KIT	1
06	R9005456D1	・ HARDWARE KIT	1
07	44Z1D10	・ FITTING, Lube	1

CARRIER,BREAKOUT WRENCH,MACHINING

Item	Part No.	Description	Qty.
	R98736D2	CARRIER,BREAKOUT WRENCH,MACHINING	
01	R98736D1	▪ CARRIER,BREAKOUT WRENCH,WELDMENT	1

KOMATSU

INSTALL,CABLE,PIPE HANDLING,2 POT

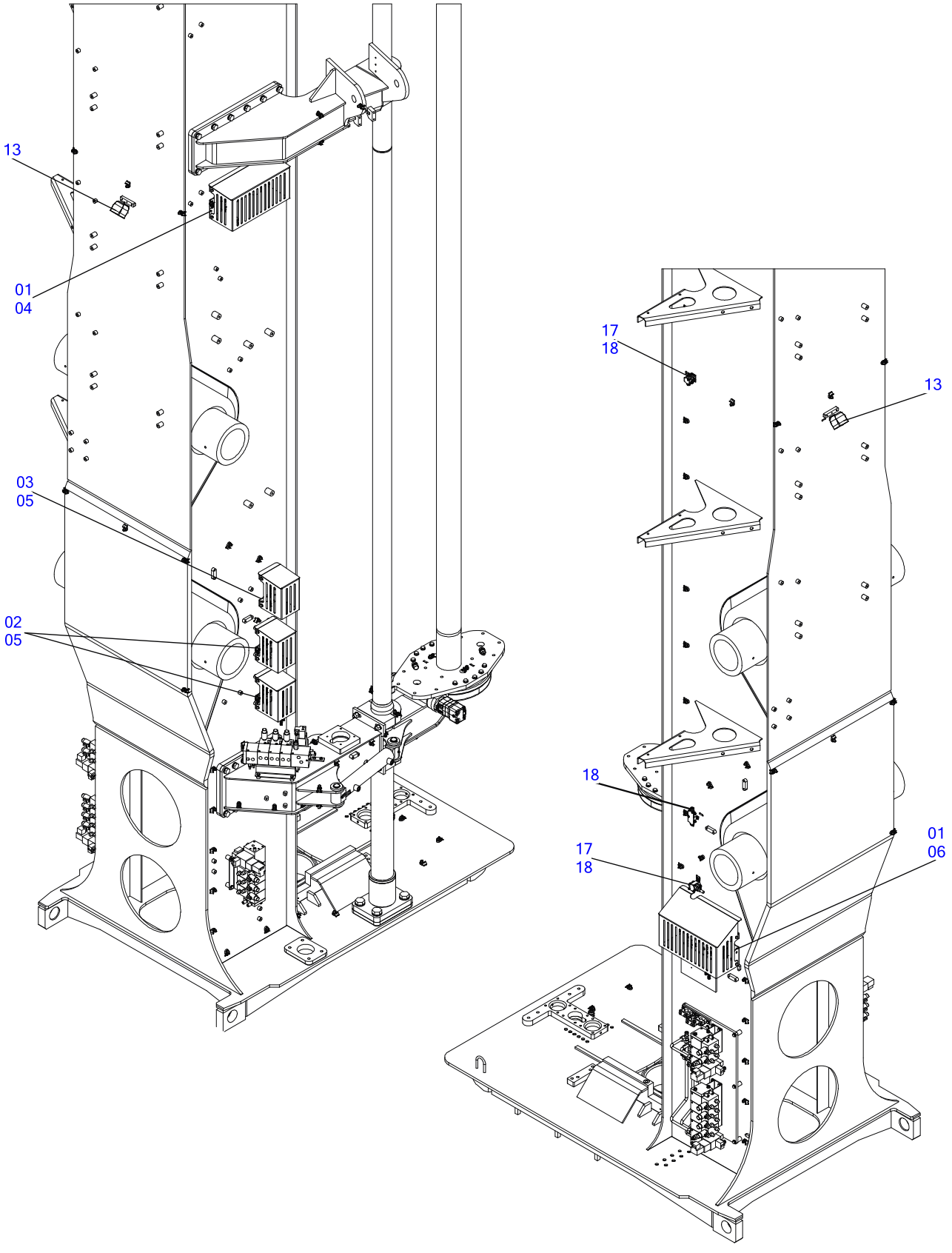
Item	Part No.	Description	Qty.	Page
	R111038F8201	INSTALL,CABLE,PIPE HANDLING,2 POT		
01	R111038F821	▪ WIRE LIST,PIPE HANDLING,2 POT	1	336
02	R4286130	▪ CAN Y MALE - 2 FEM TURCK	2	
03	R88249D1	▪ TIE, Wire	35	
04	32Z423D6	▪ CLAMP, Insulated	1	
05	0825M10020	▪ BOLT, Hex Hd	1	
06	3612M010	▪ WASHER, Plain	1	

KOMATSU

WIRE LIST,PIPE HANDLING,2 POT

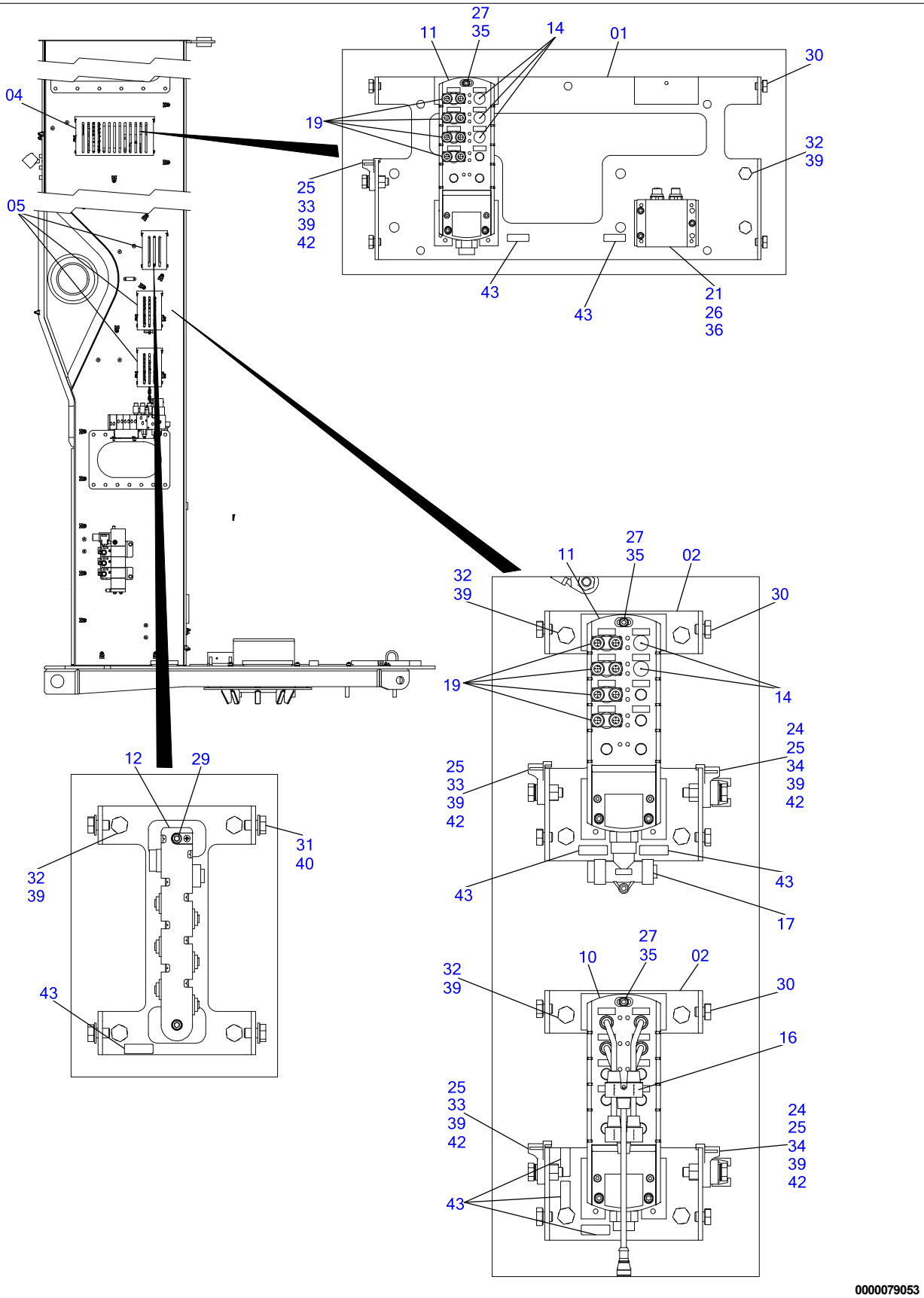
Item	Part No.	Description	Qty.
	R111038F821	WIRE LIST,PIPE HANDLING,2 POT	
01	R90651T10D50	・CABLE M12 F X M12 M 5 PIN	1
02	R90651T11D250	・CABLE,M12 M 90 X M12 F,5 PIN	1
03	R90650T14D450	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1
04	R90650T14D610	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1
05	R90650T14D610	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1
06	R90650T14D260	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1
07	R90650T14D400	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1
08	R90650T14D400	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1
09	R90651T13D170	・CABLE,M12 F 90 X M12 M,5 PIN	1
10	R90651T13D30	・CABLE,M12 M X M12 F 90,5 PIN	1
11	R90650T14D310	・CABLE,M12 F X M12 M 90,4 PIN,4 A	1

INSTALLATION, MAST ELECTRICAL



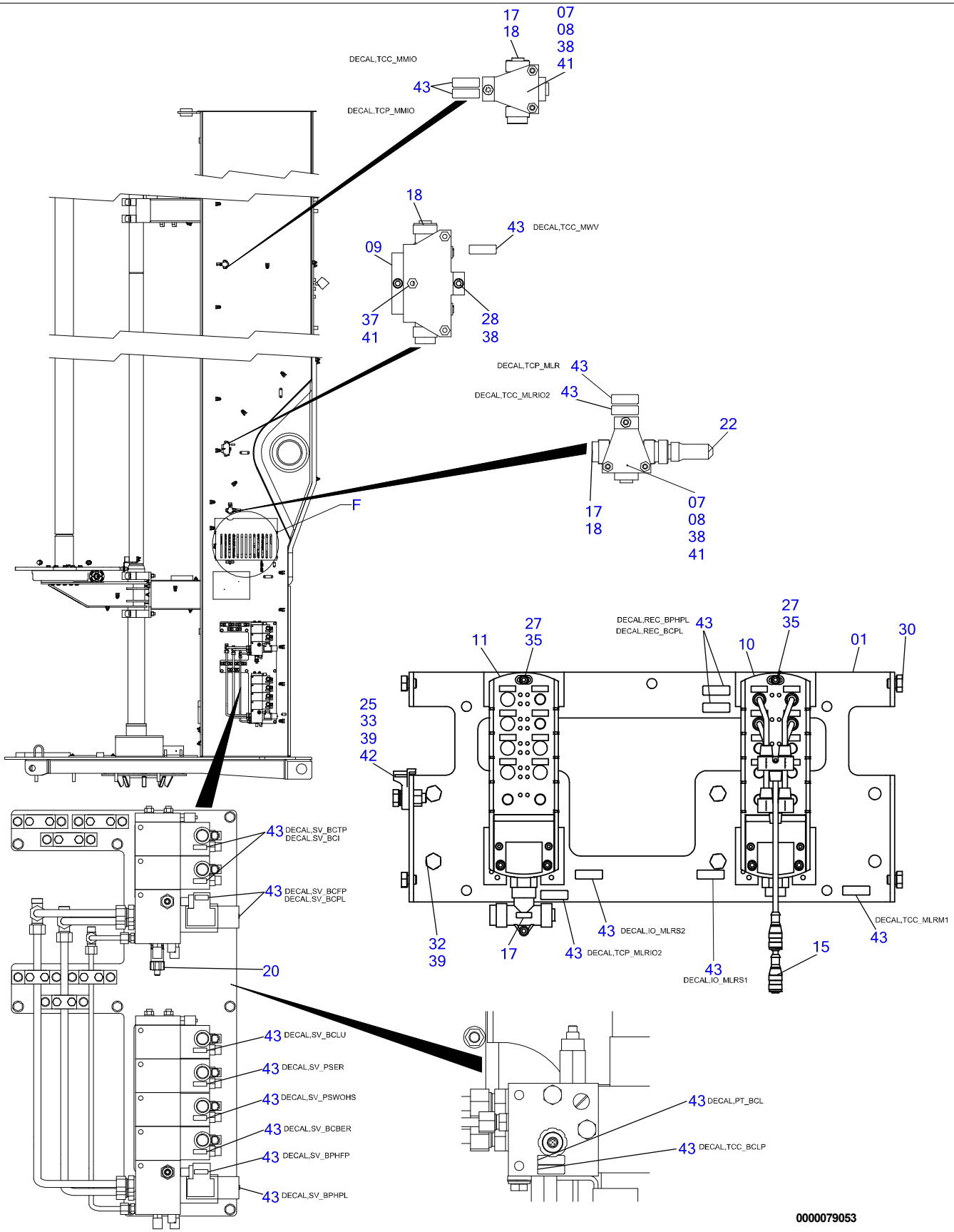
INSTALLATION, MAST ELECTRICAL

INSTALLATION, MAST ELECTRICAL



INSTALLATION, MAST ELECTRICAL

INSTALLATION, MAST ELECTRICAL



INSTALLATION, MAST ELECTRICAL

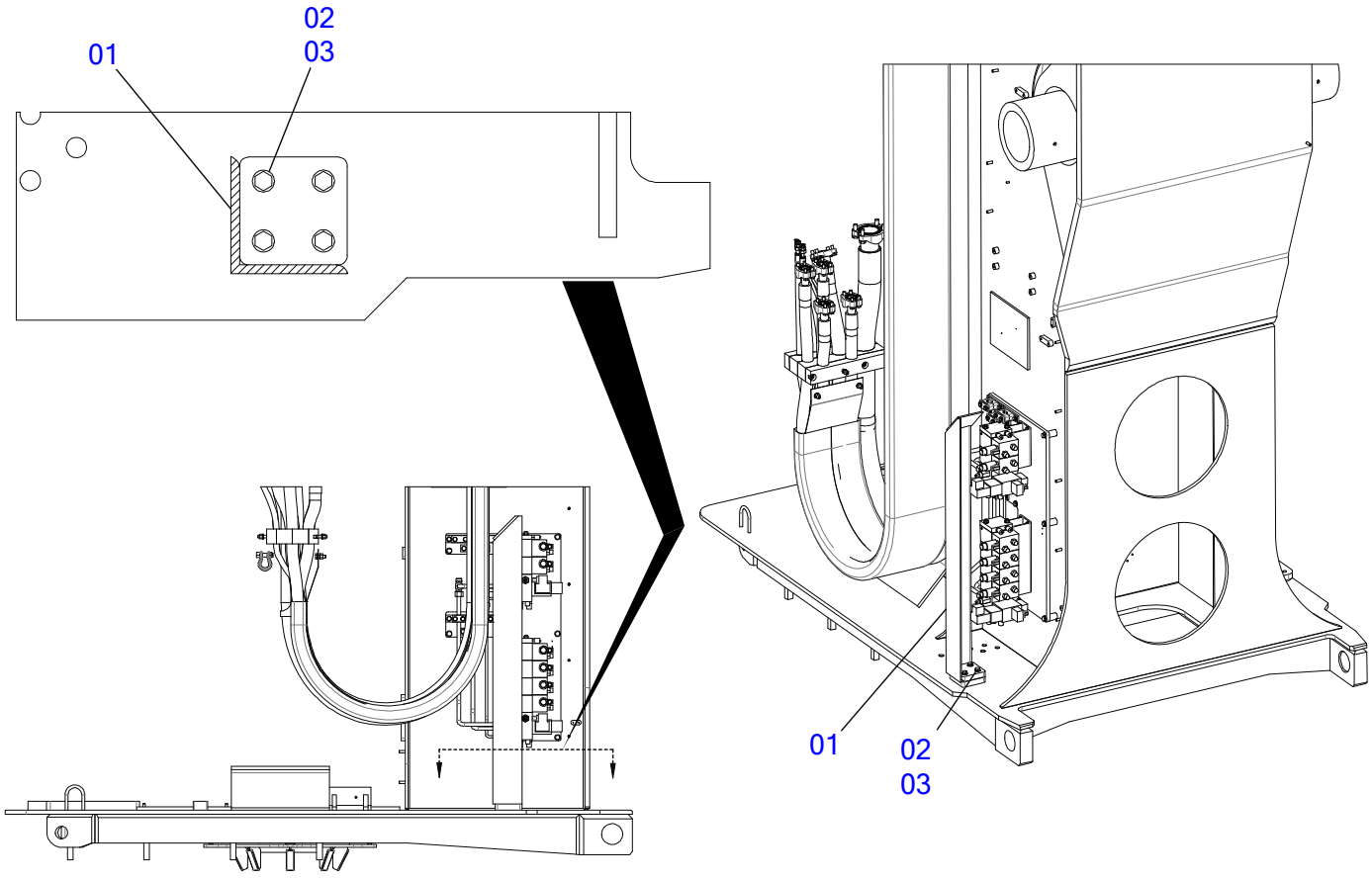
INSTALLATION, MAST ELECTRICAL

Item	Part No.	Description	Qty.
	R116934F1	INSTALLATION, MAST ELECTRICAL	
01	R89854D1	· BACK PLATE, 2 I/O, Small	2
02	R89856D1	· BACK PLATE, 1 I/O, Small	2
03	R109792D1	· BACK PLATE, 1 I/O, Small	1
04	R89855D1	· HOOD, 2 I/O, Small	1
05	R89857D1	· HOOD, 1 I/O, Small	3
06	R107842D1	· HOOD, 2 I/O, Tall	1
07	R91482D1	· MOUNT, Back Plate Tee	2
08	R91483D1	· MOUNT, Cover Plate Tee	2
09	R100976D1	· MOUNT, Cover Plate Tee - Two	1
10	R74816D1	· MODULE, I/O	2
11	R74817D1	· MODULE, I/O	3
12	R76316D2	· DISTRIBUTION BLOCK	1
13	R97643D1	· RIGHT REAR CAB PLATFORM PROPEL LIGHT	1
14	R4255434	· VIDEO CAMERA FRONT VIEW RECEPTACLE	11
15	R91487D1	· BREAKOUT WRENCH PRESSURE LIMITER CABLE RECEPTACLE	2
16	R91487D1	· BREAKOUT WRENCH PRESSURE LIMITER CABLE RECEPTACLE	2
17	R90736D1	· A-FRAME I/O MODULE 2 POWER T	4
18	R90737D1	· PIPE SLIDE WRENCH LINEAR POSITION COMMUNICATION T	4
19	R91485D1	· A-FRAME I/O MODULE	8
20	R90562D1	· MAST CYLINDER LEFT BARREL PRESSURE XDCR	1
21	R105938D2	· INCLINOMETER, 3-Axis	1
22	R76245D1	· TERMINATING RESISTOR	1
23	R91891D1	· GRIP, Cord (Not Shown)	1
24	R88247D1	· MOUNT, Single	59
25	R90641D1	· CABLE MOUNT, Single Edge	12
26	0830M05012	· SCREW, Socket Hd	3
27	0830M05025	· SCREW, Socket Hd	15
28	0830M06008	· SCREW, Socket Hd	2
29	0830M06050	· SCREW, Socket Hd	2
30	0825M10010	· BOLT, Hex Hd	16
31	0825M10016	· BOLT, Hex Hd	4
32	0825M10020	· BOLT, Hex Hd	20
33	0825M10030	· BOLT, Hex Hd	4
34	0825M10040	· BOLT, Hex Hd	2
35	3612M005	· WASHER, Plain	15
36	R80589D2	· WASHER, Lock	3
37	18Z3087D2	· WASHER, Conical Lock	7
38	R82264D19	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	4
39	R82264D20	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	89

INSTALLATION, MAST ELECTRICAL

Item	Part No.	Description	Qty.
40	3648M010	▪ WASHER, Hardened	4
41	2104M006	▪ NUT, Hex	9
42	2104M010	▪ NUT, Hex	69
43	R116952D1	▪ DECALS, Mast	1

GUARD INSTALLATION, MAST, TRAVELING HOSES



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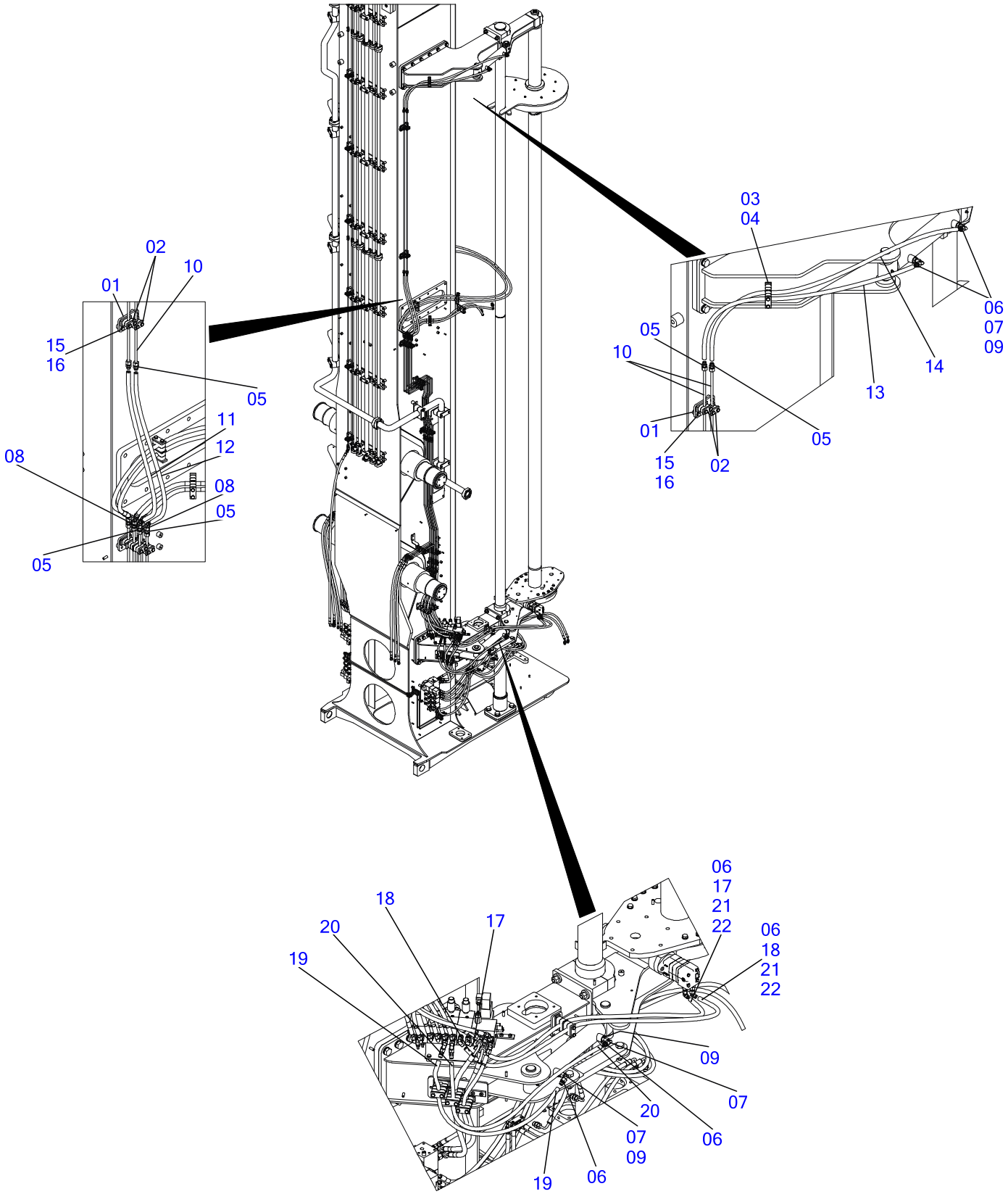
GUARD INSTALLATION, MAST, TRAVELING HOSES

Item	Part No.	Description	Qty.
	R108020F2	GUARD INSTALLATION, MAST, TRAVELING HOSES	
01	R107839D1	▪ WELDMENT, Cover	1
02	3612M012	▪ WASHER, Plain	4
03	0825M12050	▪ BOLT, Hex Hd	4

ELECTRICAL INSTALLATION, PIPE CAROUSEL - SINGLE PASS

Item	Part No.	Description	Qty.
	R119949F1	ELECTRICAL INSTALLATION, PIPE CAROUSEL - SINGLE PASS	
01	R88247D1	· MOUNT, Single	15
02	R90641D1	· STANDOFF, Cable	16
03	R76257D1	· ENCODER, Absolute, CANopen	1
04	R90575D1	· SWITCH, Proximity	3
05	0830M03010	· SCREW, Socket Hd	3
06	3648M003	· WASHER, Hardened	3
07	3612M010	· WASHER, Plain	35
08	0825M10020	· BOLT, Hex Hd	4
09	R92375D8	· STUD, Weld	3
10	2104M010	· NUT, Hex	31
11	R91714D1	· DECALS, Pipe Handling	1
12	R102392D1	· SCREW, Set	4
13	R100371D1	· PLATE, Sensor Mounting	2
14	21Z772D2	· COMPOUND, Sealing and Locking	1

ROUTINGS INSTALLATION, PIPE HANDLING - SINGLE PASS



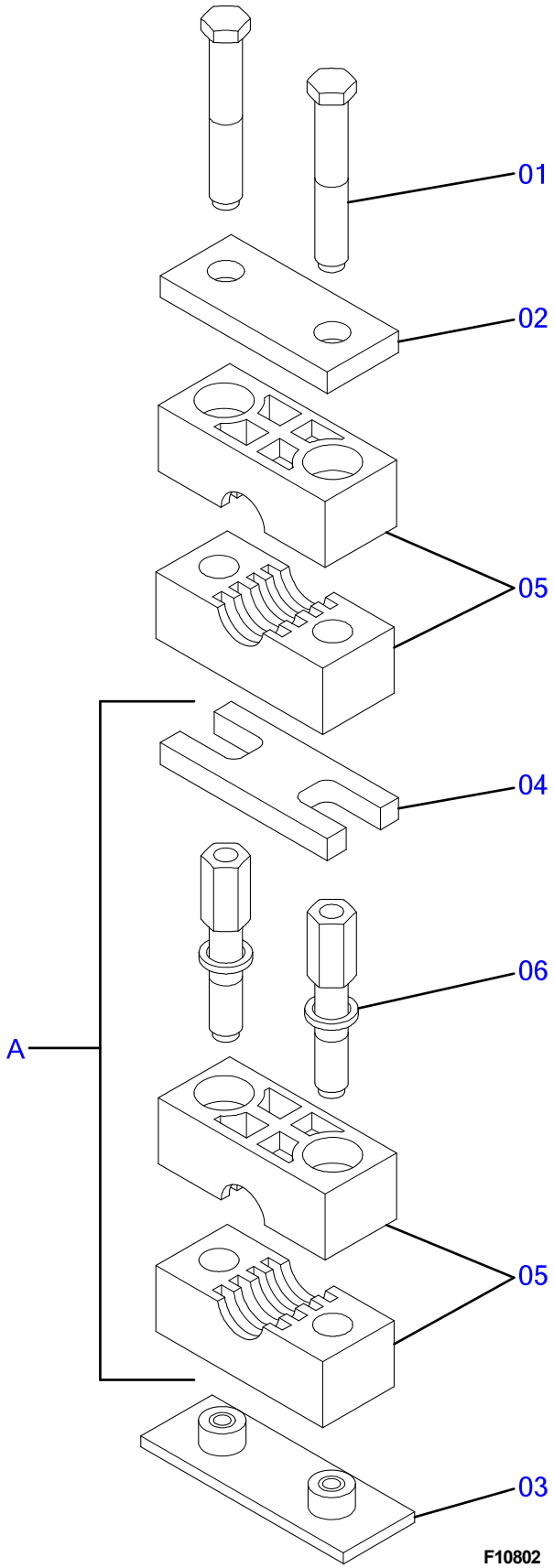
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ROUTINGS, SP PIPE HANDLING INSTALL

ROUTINGS INSTALLATION, PIPE HANDLING - SINGLE PASS

Item	Part No.	Description	Qty.	Page
	R89728F1	ROUTINGS INSTALLATION, PIPE HANDLING - SINGLE PASS		
01	R91424D1	▪ CLAMP	2	
02	R78952D5	▪ CLAMP	4	
03	R78953D15	▪ CLAMP	1	
04	R78949D15	▪ CLAMP	1	341
05	R89771D1	▪ CONNECTOR, Union	6	
06	R89862D1	▪ CONNECTOR, Union	6	
07	R89793D2	▪ CONNECTOR, ISO	4	
08	R89794D1	▪ CONNECTOR, ISO	2	
09	R89778D5	▪ CONNECTOR, ISO	4	
10	R91412D14	▪ TUBE ASSEMBLY, ISO	2	
11	R89780T06M18D98	▪ HOSE ASSEMBLY	1	
12	R89780T06M18D100	▪ HOSE ASSEMBLY	1	
13	R89780T06M18D149	▪ HOSE ASSEMBLY	1	
14	R89780T06M18D182	▪ HOSE ASSEMBLY	1	
15	3612M010	▪ WASHER, Plain	4	
16	0825M10025	▪ BOLT, Hex Hd	4	
17	R89780T06M18D210	▪ HOSE ASSEMBLY	1	
18	R89780T06M18D225	▪ HOSE ASSEMBLY	1	
19	R89780T06M18D101	▪ HOSE ASSEMBLY	1	
20	R89780T06M18D131	▪ HOSE ASSEMBLY	1	
21	R89777D5	▪ CONNECTOR, ISO	2	
22	R89793D1	▪ CONNECTOR, ISO	2	

CLAMP, STACKING HOSE



CLAMP, STACKING HOSE

CLAMP, STACKING HOSE

Item	Part No.	Description	Qty.
	R78949D15	CLAMP, STACKING HOSE	
01	NP1000Z15775	▪ BOLT	2
02	NP1000Z15774	▪ PLATE, Top	1
03	NP1000Z15773	▪ PLATE, Weld	1
04	NP1000Z15772	▪ PLATE, Safety	1
05		▪ CLAMP (NSS)	4
06	NP1000Z15771	▪ BOLT, Stack	2

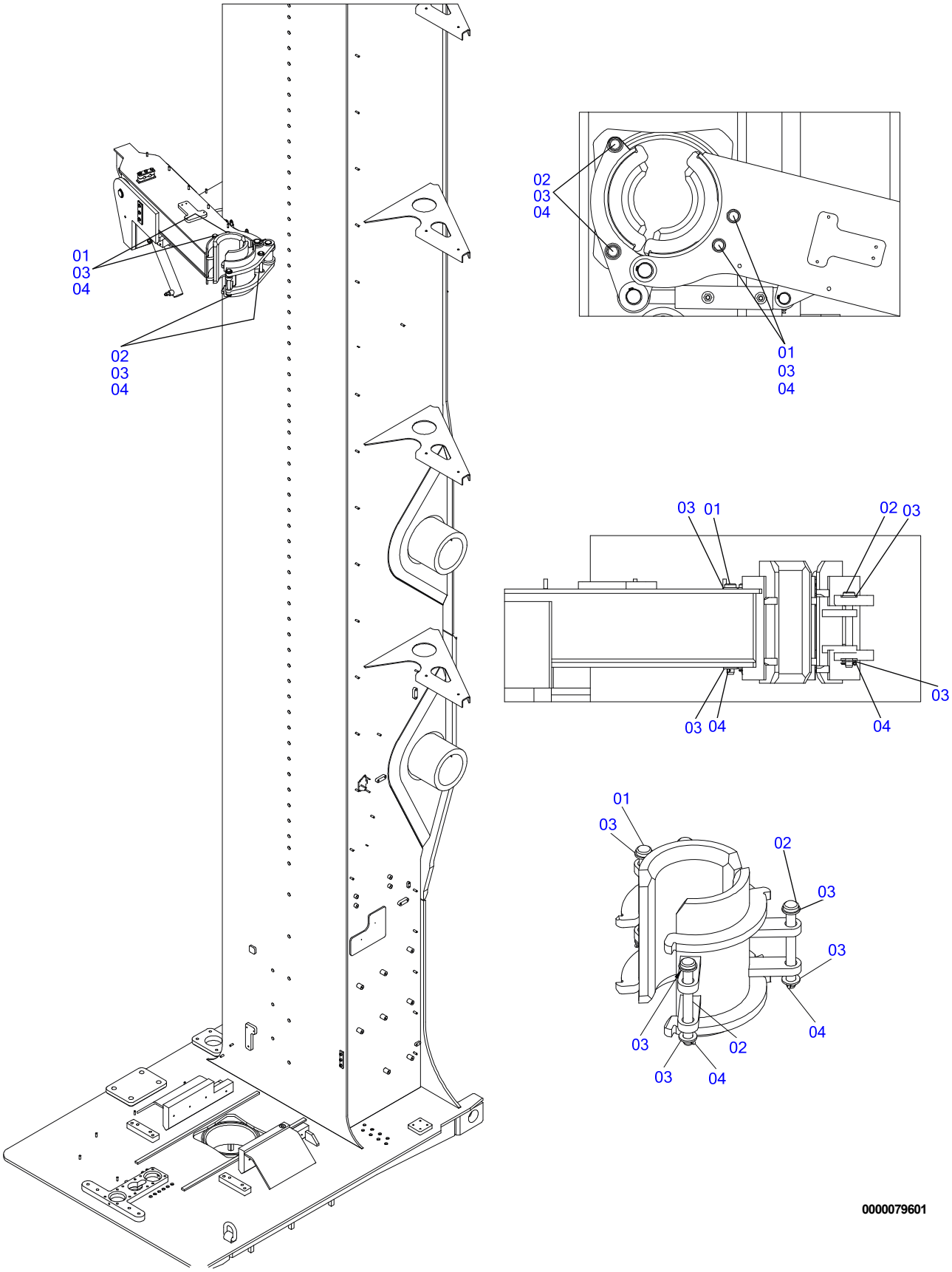
INSTALLATION, PIN LOCK

Item	Part No.	Description	Qty.
	R111152F1	INSTALLATION, Pin Lock	
01	R111143D1	▪ WASHER, PIN	2
02	R111144D1	▪ PLATE, Cylinder Pin Locking	2
03	R111145D1	▪ BRACKET, Cylinder Pin Locking	4
04	0825M16100	▪ BOLT, Hex Hd	8
05	0825M20120	▪ BOLT, Hex Hd	8
06	3648M016	▪ WASHER, Hardened	8
07	3648M020	▪ WASHER, Hardened	8
08	R107799D20060	▪ SPACER, Bolt	8

PLATE INSTALLATION, MAST PIN LOCK

Item	Part No.	Description	Qty.
	R9007860F1	PLATE INSTALLATION, MAST PIN LOCK	
01	R9007860D1	▪ PLATE, Pin Lock	2
02	3648M020	▪ WASHER, Hardened	12
03	0825M20050	▪ BOLT, Hex Hd	8
04	2061M020	▪ NUT, Hex Jam, Metric	4
05	9828M20080	▪ BOLT, Hex Head, Metric	4

INSTALLATION, LINER HARDWARE, UPPER PIPE POSITIONER



INSTALLATION, LINER HARDWARE, UPPER PIPE POSITIONER

INSTALLATION, LINER HARDWARE, UPPER PIPE POSITIONER

Item	Part No.	Description	Qty.
	R9001375F1	INSTALLATION, LINER HARDWARE, UPPER PIPE POSITIONER	
01	R108628D2	▪ PIN	2
02	R108628D1	▪ PIN	2
03	18Z694D8	▪ WASHER, Hardened	8
04	2203V065	▪ PIN, Cotter	4

KIT, UPPER PIPE POSITIONER UPDATE

Item	Part No.	Description	Qty.
	R9001599F1	KIT, UPPER PIPE POSITIONER UPDATE	
01	R117234D1	▪ CYLINDER, Pipe Positioner, Jaw	1
02	0825M20070	▪ BOLT, Hex Hd	6
03	R9001600D1	▪ SPACER,1.00 IN ID X 1.50 IN OD X .75 IN	6
04	3648M020	▪ WASHER, Hardened	6

KIT, LANYARD INSTALLATION - UPPER PIPE POSITIONER

Item	Part No.	Description	Qty.
	R120991F2	KIT, LANYARD INSTALLATION - UPPER PIPE POSITIONER	
01	R120992D1	▪ PLATE, Shackle Mounting	1
02	0825M24070	▪ BOLT, Hex Hd	2
03	3648M024	▪ WASHER, Hardened	2
04	R101917D3	▪ SHACKLE	2
05	R67808D2	▪ LINK, Connecting	2
06	R9002198D25	▪ CHAIN	1

CARRIAGE INSTALLATION

Item	Part No.	Description	Qty.	Page
	R9003030F1	CARRIAGE INSTALLATION	1	
01	R9003027F1	▪ CARRIAGE ASSEMBLY	1	348
02	R9003028F1	▪ ROUTINGS INSTALLATION, Carriage Mechanical	1	354
03	R9003029F1	▪ ELECTRICAL INSTALLATION, Carriage	1	355
04	R111038F8100	▪ CABLE INSTALLATION, Carriage	1	357
05	21Z772D4	▪ LOCTITE, 242 (Blue) (Non-Hazmat)	1	

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CARRIAGE ASSEMBLY

Item	Part No.	Description	Qty.	Page
	R9003027F1	CARRIAGE ASSEMBLY		
01	R90357D3	▪ CARRIAGE	1	
02	R9003026F1	▪ UPDATE KIT, Carriage Chassis	1	
03	R38568D1	▪ MAGNET	2	
04	R91090D1	▪ SHAFT, Rotary Output	1	
05	R90371D1	▪ BEARING, Spherical Thrust	1	
06	R90371D2	▪ BEARING, Spherical Thrust	1	
07	R90372D1	▪ BEARING	1	
08	R91096D1	▪ SPACER, Bearing	1	
09	R91097D1	▪ SPACER, Second Reduction Gear	1	
10	R91095D1	▪ SPACER, Second Reduction Gear	1	
11	R91092D2	▪ GEAR, Second Reduction	1	
12	R52767D1	▪ BEARING, Roller	1	
13	R91100D2	▪ LOCKNUT, Bearing	1	
14	R91099D2	▪ LOCKWASHER, Bearing	1	
15	R91098D1	▪ CARRIER, Seal	1	
16	R91091D1	▪ PINION, Second Reduction	1	
17	R91093D2	▪ GEAR, First Reduction	1	
18	R91103D1	▪ SPACER, First Reduction Gear	1	
19	R91094D1	▪ PINION, Input	1	
20	R91101D1	▪ SNAP RING, External, M220	1	
21	R91207D2	▪ BEARING, Spherical Roller	2	
22	R91207D1	▪ BEARING, Spherical Roller	2	
23	18Z2082D160	▪ SNAP RING, Spiral Locking	2	
24	R91102D1	▪ CARRIER, Seal	1	
25	R91204D1	▪ PUMP, Lube	1	
26	R91198D1	▪ CAPSULE, Second Reduction Bearing	1	
27	R91199D1	▪ CAPSULE, First Reduction Bearing	1	
28	R91202D1	▪ WASHER, Oil Transfer	1	
29	R91203D1	▪ SNAP RING, Internal, 165mm	1	
30	R91205F1	▪ SHIM, Motor	1	
31	R97704F1	▪ SHIM, Second Reduction	1	
32	R89807D1	▪ MOTOR, Hydraulic Axial, 210CC	1	
33	18Z498D82	▪ SEAL, OIL	2	
34	18Z498D75	▪ SEAL, Oil	1	
35	18Z3344D41	▪ SEAL, V-Ring	1	
36	0825M12075	▪ BOLT, Hex Head	16	
37	45Z91D212	▪ O-RING	1	
38	45Z91D209	▪ O-RING	1	
39	R97172D1	▪ O-RING	2	

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CARRIAGE ASSEMBLY

Item	Part No.	Description	Qty.	Page
40	45Z91D199	▪ O-RING	1	
41	20H3011D18	▪ KEY	1	
42	44Z2179D2	▪ PLUG, Metric, M12	2	
43	0630M10025	▪ SCREW, Socket Head	10	
44	R82264D20	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	34	
45	R82264D21	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	78	
46	0825M12045	▪ BOLT, Hex Head	16	
47	R82264D23	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	4	
48	0825M20065	▪ BOLT, Hex Head	4	
49	R82264D10	▪ LOCKWASHER SET (The set includes two washers necessary for application.)	14	
50	0825M16050	▪ BOLT, Hex Head	14	
51	0825M12030	▪ BOLT, Hex Head	2	
52	R98873D1	▪ O-RING, Carriage Cover	2	
53	R91275D2	▪ PLATE, Rotary Housing Cover	1	
54	R90369F1	▪ TRANSMISSION ASSEMBLY, Pulldown	2	
	R90369D2	▪ ▪ TRANSMISSION, Pulldown	1	
	R94505D1	▪ ▪ ADAPTER, Motor, SAE C	1	
55	R89805D2	▪ ASSEMBLY, Hydraulic Motor, 105CC	2	349
56	R96822D1	▪ PINION, Pulldown	2	
57	R91185D1	▪ RAIL SPACER, Inboard	2	
58	R91182D1	▪ RAIL, Outboard Pinion	2	
59	R90368D1	▪ BUSHING	4	
60	R91075D1	▪ CARRIER, Seal	2	
61	R97697D1	▪ BEARING, Spherical Roller, Sealed	2	
62	R90365D1	▪ PIN, Eccentric Roller	2	
63	R91082D1	▪ PLATE, Bearing Retainer	2	
64	R90366D1	▪ ROLLER, Backup	2	
65	R90367D1	▪ ARM, Torque	2	
66	R91216D1	▪ TURNBUCKLE	1	
67	R91078D1	▪ PIN, Slide Bracket	4	
68	R91191D1	▪ BUSHING	4	
69	R91196D1	▪ BRACKET, Expansion Tanks	1	
70	R110693F1	▪ SLIDE ASSEMBLY, Right Side	2	351
71	R110693F2	▪ SLIDE ASSEMBLY, Left Side	2	352
72	R91192D1	▪ MANIFOLD, Pulldown	1	
73	R91193D1	▪ MANIFOLD, Rotary	1	
74	R97700D1	▪ FITTING, Grease	3	
75	R9003317F1	▪ RESERVOIR ASSEMBLY, Pulldown Transmission	2	353
76	18Z3344D38	▪ SEAL, V-Ring	2	
77	R105984D1	▪ ADAPTER	1	

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CARRIAGE ASSEMBLY

Item	Part No.	Description	Qty.	Page
78	20Z2407D4	· PLUG, Oil Sight, with Reflector	2	
79	R104633D1	· BACK PLATE, I/O Distribution Block	1	
80	R89818D1	· RELEASE VALVE, Carriage Travel Park Brake	1	
81	R98826D1	· MANIFOLD, Case Drain	1	
82	R98824D1	· MANIFOLD, Lube Pump	1	
83	R109479D1	· MANIFOLD, Main Air	1	
84	R97698D1	· SNAP RING, Internal, 140mm	2	
85	R97699D1	· SNAP RING, External, 42mm	8	
86	R91228F1	· SHIM KIT	2	
	R91228D1	· · SHIM (.005)	4	
	R91228D2	· · SHIM (.0075)	4	
	R91228D3	· · SHIM (.020)	4	
87	R91184D1	· SHIM, Slide Bar	24	
88	R78950D5	· CLAMP, Rail Mount, -08 Tube	2	
89	R78950D15	· CLAMP, Rail Mount, -24 Tube	4	
90	R78950D20	· CLAMP, Rail Mount, -32 Tube	1	
91	R82264D19	· LOCKWASHER SET (The set includes two washers necessary for application.)	22	
92	R82264D5	· LOCKWASHER SET (The set includes two washers necessary for application.)	2	
93	R86393D12	· LOCKWASHER SET (The set includes two washers necessary for application.)	8	
94	R82264D9	· LOCKWASHER SET (The set includes two washers necessary for application.)	146	
95	0825M06020	· BOLT, Hex Head	22	
96	0825M08060	· BOLT, Hex Head	2	
97	0825M10110	· BOLT, Hex Head	4	
98	2104M010	· NUT, Hex	20	
99	0894M10025	· BOLT, Flange Hex Hd	8	
100	0825M10035	· BOLT, Hex Head	4	
101	0825M10220	· BOLT, Hex Head	8	
102	0825M12040	· BOLT, Hex Head	36	
103	0825M12140	· BOLT, Hex Head	4	
104	2104M012	· NUT, Hex	4	
105	R91168D1	· BOLT, Hex Head	6	
106	R91169D1	· BOLT, Hex Head	70	
107	R91170D1	· NUT, Hex	70	
108	0825M16030	· BOLT, Hex Head	4	
109	3612M010	· WASHER, Plain	4	
110	3648M042	· WASHER, Hardened	8	
111	21Z772D4	· COMPOUND, Sealing and Locking	1	
112	R98979D1	· VENT, Pressure Relief	1	
113	R41313D2	· ADAPTER, MM to NPT	1	
114	2486V005	· STREET TEE	1	

CARRIAGE ASSEMBLY

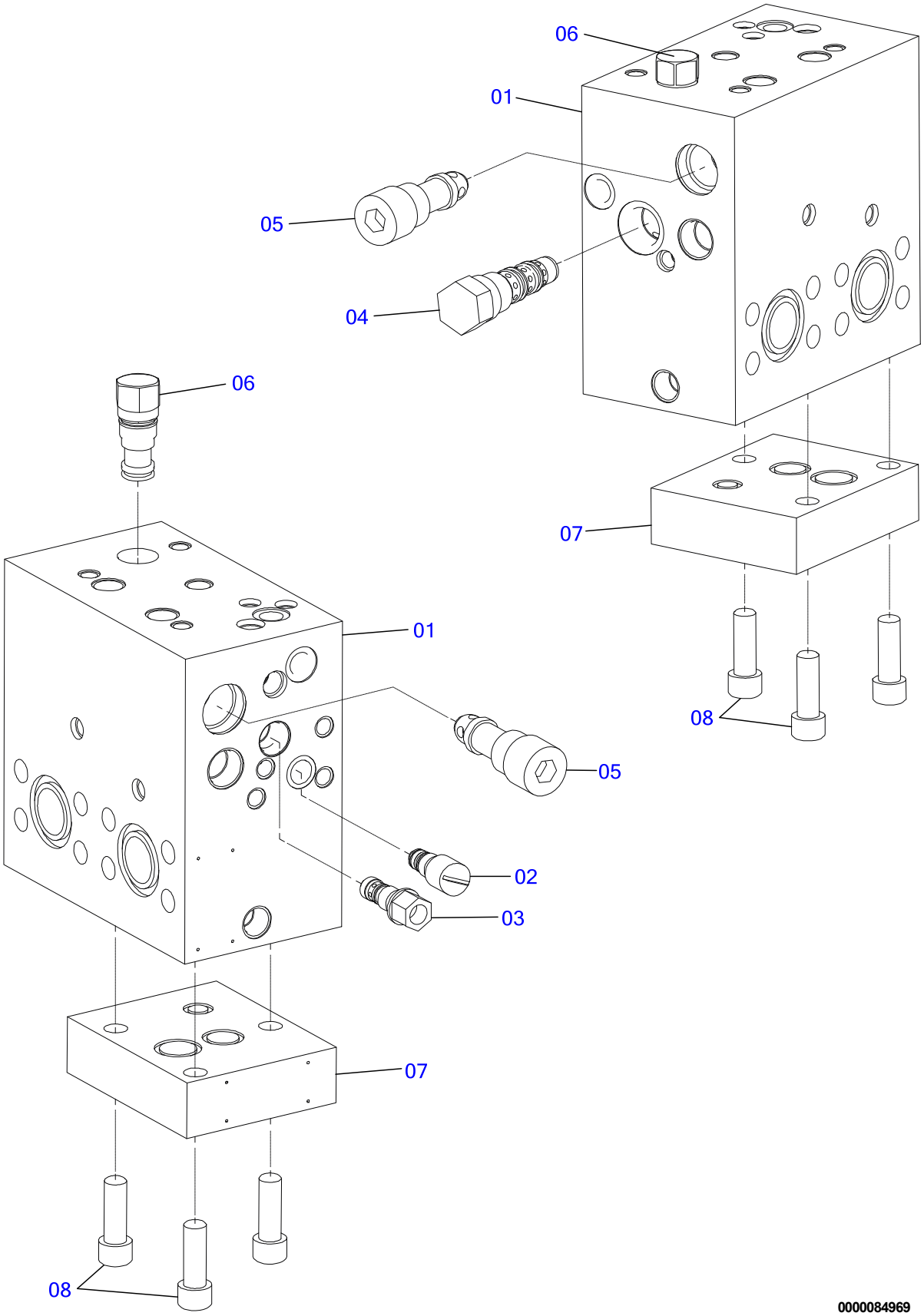
Item	Part No.	Description	Qty.	Page
115	27Z1042	▪ FITTING, Inlet	1	
116	27Z1043	▪ CAP, Inlet Fitting	1	
117	0825M16150	▪ BOLT, Hex Head	4	
118	R91206D1	▪ SWIVEL, Air, 3 Inch	1	
119	R91200D1	▪ ADAPTER, Air Swivel	1	
120	R91194D1	▪ MANIFOLD, Air Swivel	1	
121	45Z479D48	▪ O-RING	1	
122	R97187D1	▪ BRACE	1	
123	R122677D1	▪ BRACKET, Breather Mounting	1	
124	14Z50D3	▪ BREATHER	1	
125	2401V012	▪ BUSHING, Pipe	1	
126	44Z2597D16	▪ ADAPTER	2	
127	R89928D8	▪ WASHER, Oversized	2	
128	0825M12055	▪ BOLT, Hex Head	2	
129	R81833T12D34	▪ HOSE ASSEMBLY	1	

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HYDRAULIC MOTOR ASSEMBLY, 105CC

Item	Part No.	Description	Qty.	Page
	R89805D2	HYDRAULIC MOTOR ASSEMBLY, 105CC		
01	R91220D1	▪ MOTOR, Hydraulic Axial, 105cc	1	
02	R89806D2	▪ MANIFOLD ASSEMBLY, 105cc Motor	1	350
03	R9006104D1	▪ KIT, Pilot Tubing, 12mm	1	
04	R9006103D1	▪ KIT, Pilot Tubing, 6mm	1	
05	R9006087D1	▪ COVER, Encoder Mount	1	
06	R9006088D1	▪ O-RING, 80 DURO Viton	1	
07	45Z91D229	▪ O-RING	1	
08	45Z91D138	▪ O-RING	1	
09	45Z91D218	▪ O-RING	1	
10	0830M12030	▪ SCREW, Socket Head	3	
11	R9006089D1	▪ SPRING PIN	2	
12	0830M08020	▪ SCREW, Socket Head	3	
13	0830M12100	▪ SCREW, Socket Head	8	
14	R9005943D1	▪ FITTING, Test Point	2	
15	45Z91D150	▪ O-RING	2	

MANIFOLD ASSEMBLY, 105CC MOTOR

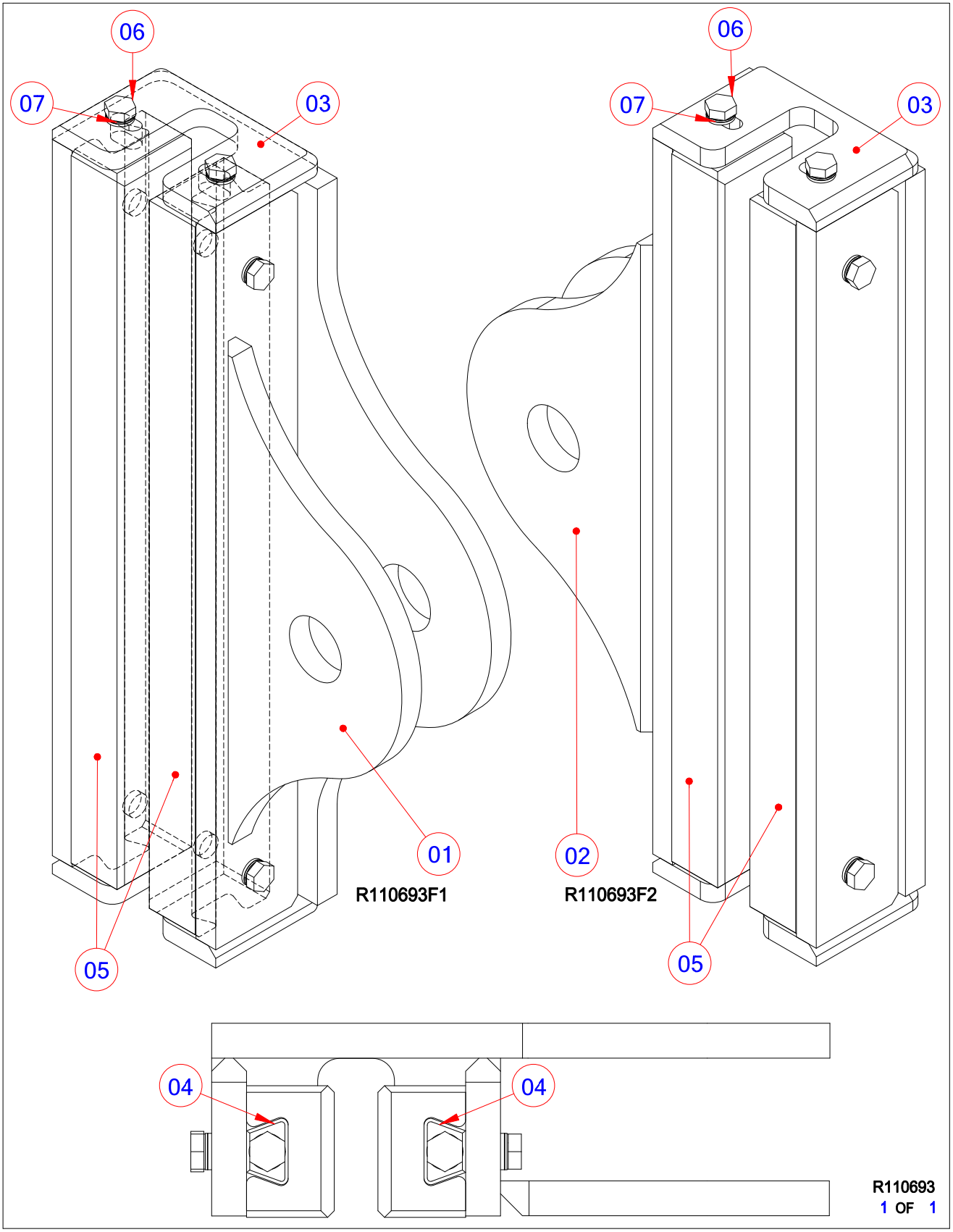


MANIFOLD ASSEMBLY, 105CC MOTOR

MANIFOLD ASSEMBLY, 105CC MOTOR

Item	Part No.	Description	Qty.
	R89806D2	MANIFOLD ASSEMBLY, 105CC MOTOR	
01	R107650D1	· BLOCK, Pulldown Manifold	1
02	R107651D1	· CARTRIDGE, Pressure Reducing	1
03	R107652D1	· CARTRIDGE, Relief, 16 Bar	1
04	R107653D1	· CARTRIDGE, Hot Oil Shuttle	1
05	R107654D1	· CARTRIDGE, Relief, 420 Bar	2
06	R107655D1	· CARTRIDGE, Flow Control	1
07	R107963D1	· PLATE, Manifold Cover	1
08	0630M12035	· SCREW, Socket Hd	3

ASSEMBLY, SLIDE - RH

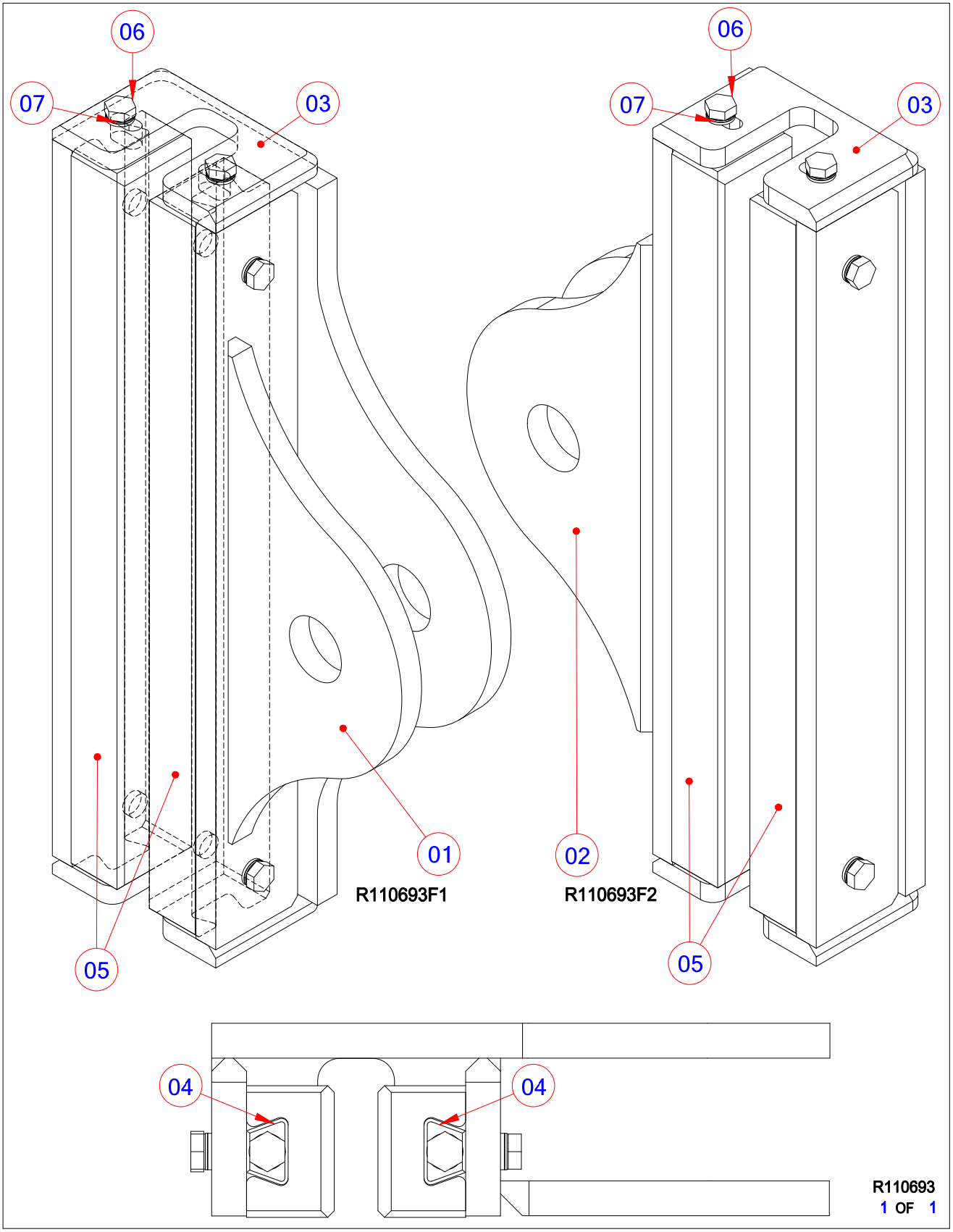


ASSEMBLY, SLIDE

ASSEMBLY, SLIDE - RH

Item	Part No.	Description	Qty.
	R110693F1	ASSEMBLY, SLIDE - RH	
01	R110692D1	▪ BRACKET, Slide, RH	1
02		NOT USED	
03	R91080D1	▪ PLATE, Slide Cover	1
04	R91230D1	▪ PLATE, Slide Bar Mounting	2
05	R91081D1	▪ SLIDE BAR, Carriage	2
06	0825M10040	▪ BOLT, Hex Hd	6
07	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6

ASSEMBLY, SLIDE - LH



ASSEMBLY, SLIDE

ASSEMBLY, SLIDE - LH

Item	Part No.	Description	Qty.
	R110693F2	ASSEMBLY, SLIDE - LH	
01		NOT USED	
02	R110692D2	▪ BRACKET, Slide, LH	1
03	R91080D1	▪ PLATE, Slide Cover	1
04	R91230D1	▪ PLATE, Slide Bar Mounting	2
05	R91081D1	▪ SLIDE BAR, Carriage	2
06	0825M10040	▪ BOLT, Hex Hd	6
07	R82264D20	▪ LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	6

RESERVOIR ASSEMBLY, PULLDOWN TRANSMISSION

Item	Part No.	Description	Qty.
	R9003317F1	RESERVOIR ASSEMBLY, PULLDOWN TRANSMISSION	
01	R87345D1	▪ TANK, Reservoir	1
02	14Z50D3	▪ BREATHER	1
03	44Z2597D11	▪ ADAPTER	1
04	20Z2407D4	▪ 3/4" NPT OIL SIGHT PLUG W/REFLECTOR	2

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ROUTINGS INSTALLATION, CARRIAGE MECHINCAL

Item	Part No.	Description	Qty.
	R9003028F1	ROUTINGS INSTALLATION, CARRIAGE MECHINCAL	
01	R87259D3	• KIT, Split Flange	8
02	R87259D4	• KIT, Split Flange	4
03	R87258D8	• KIT, Split Flange	2
04	R89770D1	• CONNECTOR, Union	1
05	R89770D2	• CONNECTOR, Union	2
06	R89771D1	• CONNECTOR, Union	1
07	R89772D2	• CONNECTOR, Union	1
08	R89773D1	• CONNECTOR, Union	1
09	R89778D2	• CONNECTOR	6
10	R89778D3	• CONNECTOR	1
11	R89778D5	• CONNECTOR, ISO	2
12	R89778D8	• CONNECTOR	4
13	R89778D11	• CONNECTOR	2
14	R89779D1	• CONNECTOR	2
15	R89792D4	• CONNECTOR	3
16	R89792D6	• CONNECTOR	2
17	R89793D2	• CONNECTOR, ISO	8
18	R89793D4	• CONNECTOR	2
19	R89794D2	• CONNECTOR	1
20	R89795D2	• CONNECTOR	1
21	2408V001	• COUPLING, Pipe	2
22	R89794D3	• CONNECTOR	2
23	R98988D1	• CONNECTOR	2
24	44Z2569D4	• CLAMP BODY	6
25	44Z2566D1	• PLATE, Single Clamp	6
26	R78953D16	• CLAMP, Hose	1
27	R78953D23	• CLAMP, Hose	1
28	R78953D18	• CLAMP, Hose	2
29	R78952D5	• CLAMP, Tube	3
30	R78949D27	• CLAMP, Stacking Hose	2
31	R78953D27	• CLAMP, Hose	2
32	R78953D15	• CLAMP, Hose	3
33	44Z2568D1	• KIT, Stacking	1
34	32Z423D2	• CLAMP, Insulated	3
35	45Z479D22	• O-RING	4
36	45Z479D24	• O-RING	1
37	3648M012	• WASHER, Hardened	22
38	R82264D20	• LOCKWASHER SET (The set includes two washers necessary for application.)	5
39	R82264D21	• LOCKWASHER SET (The set includes two washers necessary for application.)	4

ROUTINGS INSTALLATION, CARRIAGE MECHINCAL

Item	Part No.	Description	Qty.
40	0825M10020	• BOLT, Hex Hd	3
41	0825M10025	• BOLT, Hex Hd	2
42	0825M10050	• BOLT, Hex Hd	12
43	0825M12025	• BOLT, Hex Hd	2
44	0825M12030	• BOLT, Hex Hd	2
45	0825M12040	• BOLT, Hex Hd	4
46	0825M12045	• BOLT, Hex Hd	16
47	2104M010	• NUT, Hex	2
48	R89786T16D149	• HOSE ASSEMBLY	1
49	R89786T16D156	• HOSE ASSEMBLY	1
50	R89786T16D136	• HOSE ASSEMBLY	1
51	R89786T16D147	• HOSE ASSEMBLY	1
52	R89788T20D96	• HOSE ASSEMBLY	1
53	R89788T20D105	• HOSE ASSEMBLY	1
54	R89782T16M36D54	• HOSE ASSEMBLY	1
55	R89780T08M20D46	• HOSE ASSEMBLY	1
56	R89780T08M20D41	• HOSE ASSEMBLY	1
57	R89785T12M30D92	• HOSE ASSEMBLY	1
58	R89785T12M30D156	• HOSE ASSEMBLY	1
59	R89780T06M18D108	• HOSE ASSEMBLY	1
60	R89780T06M18D62	• HOSE ASSEMBLY	1
61	R89780T08M24D88	• HOSE ASSEMBLY	1
62	R89780T08M24D48	• HOSE ASSEMBLY	1
63	R89780T08M20D123	• HOSE ASSEMBLY	1
64	R89780T08M20D114	• HOSE ASSEMBLY	1
65	R89780T08M20D56	• HOSE ASSEMBLY	1
66	R89780T08M20D69	• HOSE ASSEMBLY	1
67	R89780T08M20D45	• HOSE ASSEMBLY	1
68	R89780T08M20D45	• HOSE ASSEMBLY	1
69	R89782T06M20D78	• HOSE ASSEMBLY	1
70	R89782T06M20D87	• HOSE ASSEMBLY	1
71	R98309T48D69	• HOSE ASSEMBLY	1
72	R109485D1	• TUBE ASSEMBLY	1
73	R109485D2	• TUBE ASSEMBLY	1
74	R98993D3	• TUBE ASSEMBLY	1
75	R98993D4	• TUBE ASSEMBLY	1
76	R98994D1	• TUBE ASSEMBLY	1
77	R98995D1	• TUBE ASSEMBLY	1
78	R98995D2	• TUBE ASSEMBLY	1
79	R98995D3	• TUBE ASSEMBLY	1

ROUTINGS INSTALLATION, CARRIAGE MECHINCAL

Item	Part No.	Description	Qty.
80	R98996D1	• TUBE ASSEMBLY	1
81	R98996D2	• TUBE ASSEMBLY	1
82	R98754D1	• BRACKET,CLAMP	1
83	R98779D1	• BRACKET, Clamp	3
84	R94356D3	• PLATE, Clamp Mount	1
85	R94356D2	• BRACKET, Clamp	1
86	R90983D1	• BRUSH, OGL	2
87	21Z587D8	• SEALANT, Pipe	1

KOMATSU

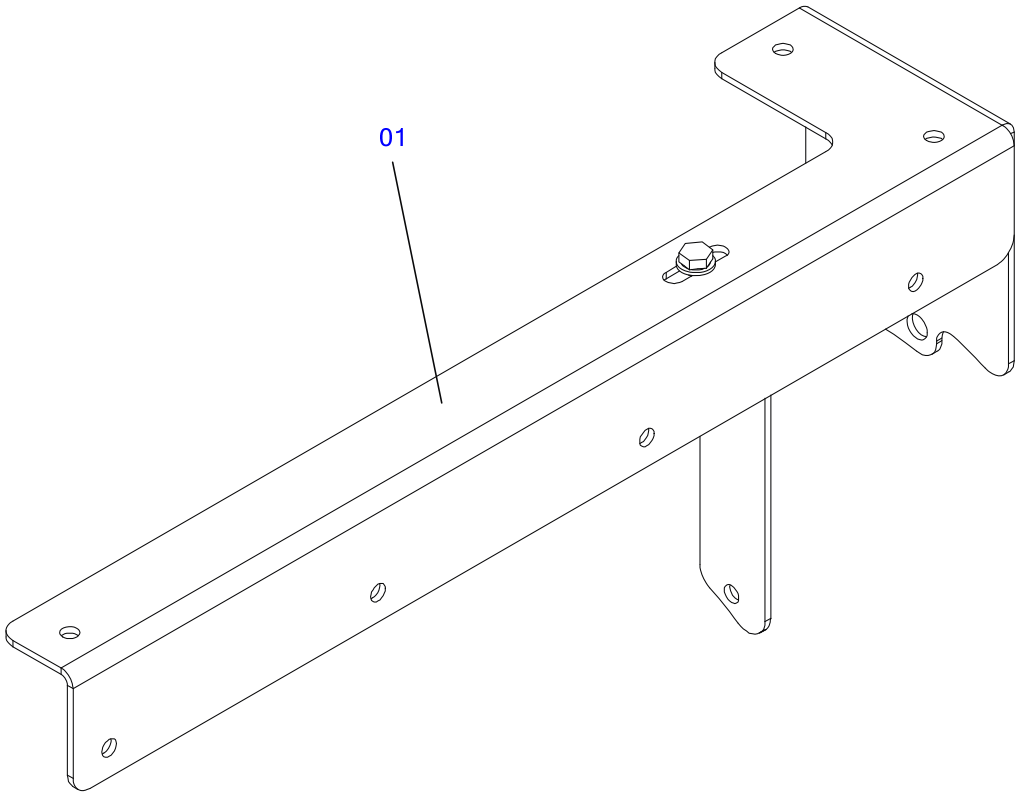
ELECTRICAL INSTALLATION, CARRIAGE

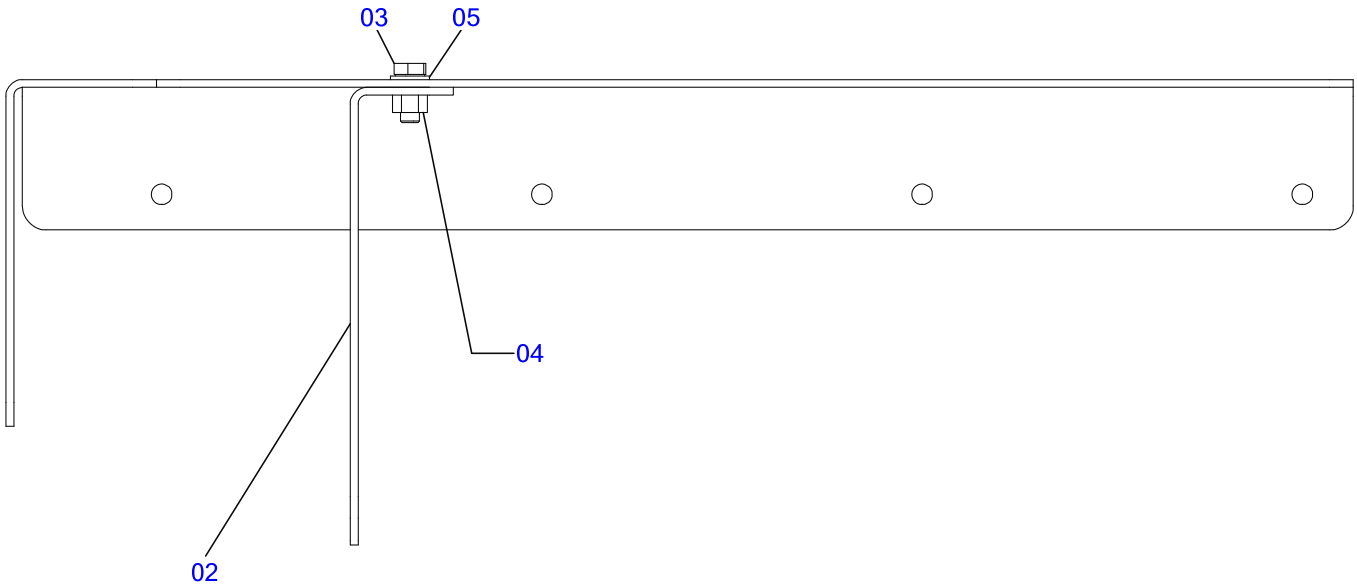
Item	Part No.	Description	Qty.	Page
	R9003029F1	ELECTRICAL INSTALLATION, CARRIAGE		
01	R91272D1	· BRACKET, Proximity Switch	2	
02	R91295F1	· WIRE BAR, Carriage	1	356
03	R89855D1	· HOOD	1	
04	R90562D1	· TRANSDUCER, Pressure	4	
05	R75776D1	· TRANSDUCER, Pressure	1	
06	R98981D1	· PRESSURE TRANSDUCER, Carriage Bit Air	1	
07	R74817D1	· MODULE, I/O	1	
08	R74816D1	· MODULE, I/O	1	
09	R76245D1	· RESISTOR, Terminating	1	
10	R90736D1	· TEE, Cable	1	
11	R98980D1	· ADAPTER	1	
12	R90585D1	· CONTAMINATION SENSOR, Rotary Gearcase	1	
13	R90575D1	· SWITCH, Proximity	2	
14	R90641D1	· STANDOFF, Cable	15	
15	R88247D1	· MOUNT, Single	43	
16	0630M05025	· SCREW, Socket Hd	6	
17	0825M08030	· BOLT, Hex Hd	11	
18	0825M10020	· BOLT, Hex Hd	8	
19	0825M10030	· BOLT, Hex Hd	1	
20	18Z3087D1	· WASHER, Conical Lock	6	
21	R82264D5	· LOCKWASHER SET (The set includes two washers necessary for application.)	66	
22	R82264D20	· LOCKWASHER SET (The set includes two washers necessary for application.)	10	
23	2104M008	· NUT, Hex	49	
24	2104M010	· NUT, Hex	1	
25	21Z772D4	· COMPOUND, Sealing and Locking	1	
26	R104657D1	· DECALS, Carriage	1	
27	R76316D2	· BLOCK, Distribution	2	
28	R95254D2	· STANDOFF, Insulator	2	
29	R91485D1	· A-FRAME I/O MODULE	2	
30	0624V009	· SCREW, Hex Head Cap	2	
31	0624V010	· SCREW, Hex Head Cap	2	
32	3632V002	· WASHER, Plain	2	
33	3616V007	· WASHER, Lock	4	
34	R121957D1	· FLANGE, Encoder Mounting	2	
35	R121958D1	· MOUNT, Encoder	2	
36	R121959D1	· RETAINER, Encoder	2	
37	R76257D1	· ENCODER, Absolute, CANopen	2	
38	44Z468D8	· PLUG	2	
39	0830M03012	· SCREW, Socket Hd	6	

ELECTRICAL INSTALLATION, CARRIAGE

Item	Part No.	Description	Qty.	Page
40	0830M06070	▪ SCREW, Socket Hd	8	
41	0830M08025	▪ SCREW, Socket Hd	6	
42	3648M003	▪ WASHER, Hardened	6	
43	3648M006	▪ WASHER, Hardened	8	

WIRE BAR, CARRIAGE





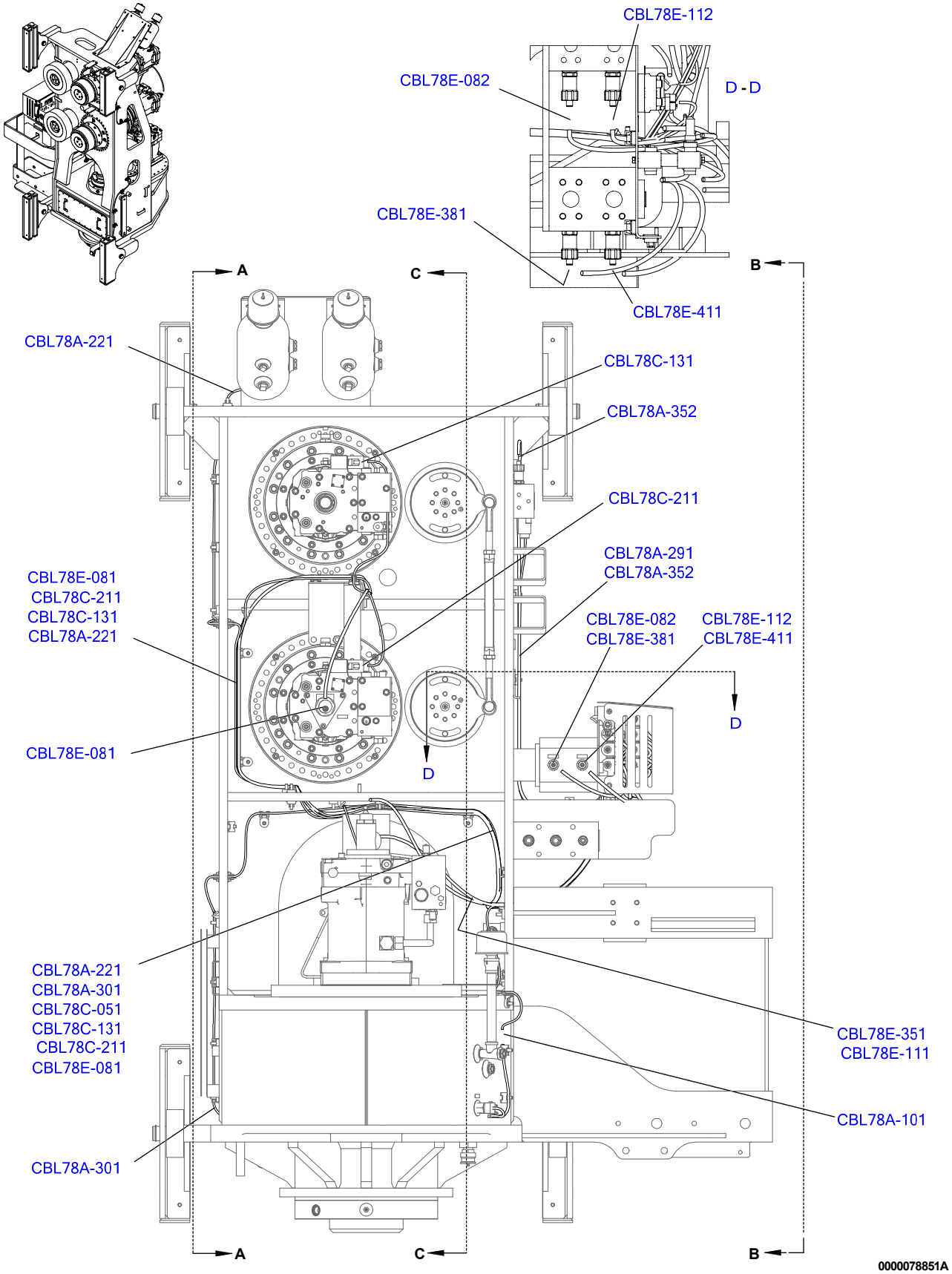
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WIRE BAR, CARRIAGE

WIRE BAR, CARRIAGE

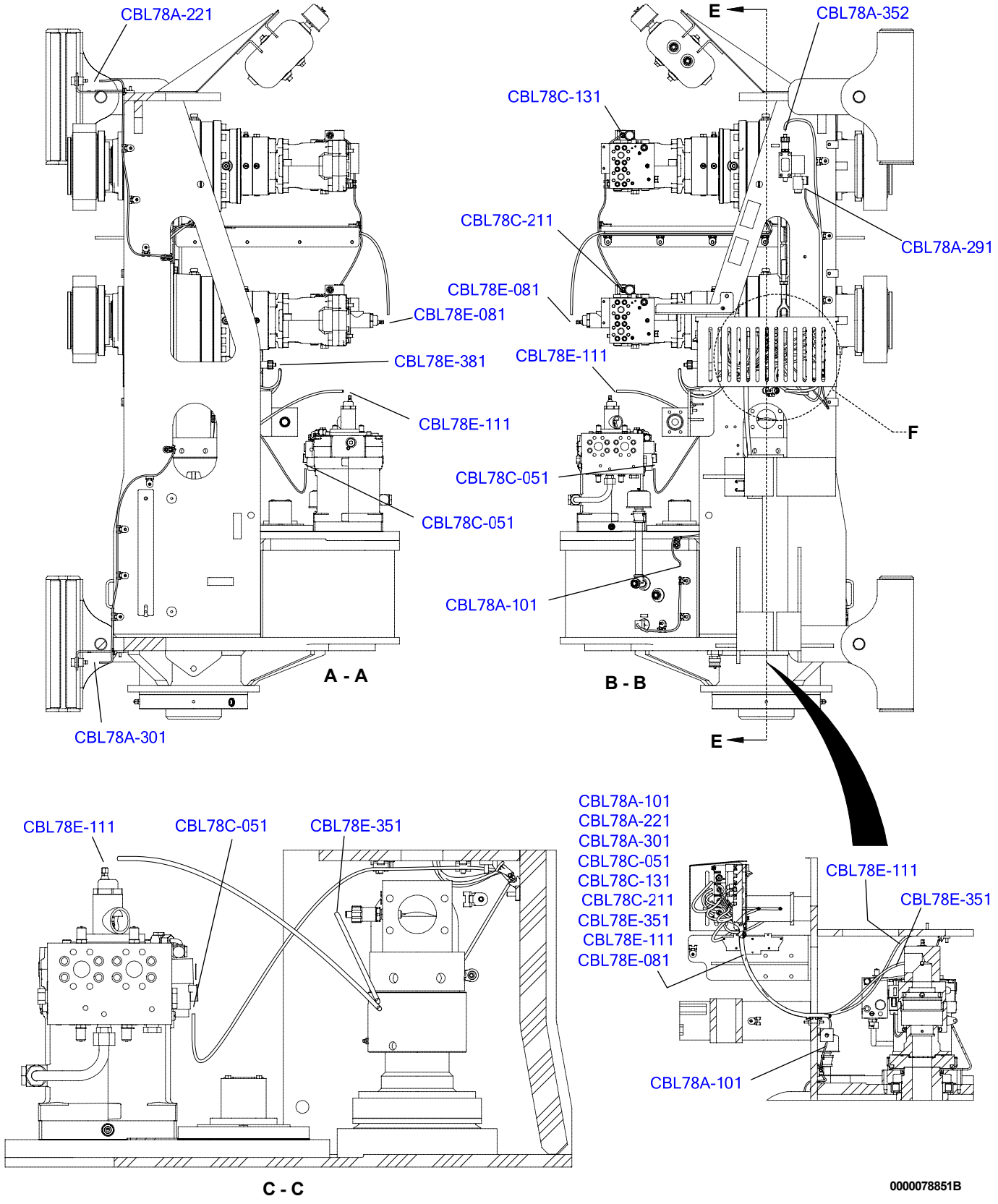
Item	Part No.	Description	Qty.
	R91295F1	WIRE BAR, CARRIAGE	
01	R91295Y1	▪ SHEET	1
02	R91295Y2	▪ SHEET	1
03	0825M10025	▪ BOLT, Hex Hd	1
04	2104M010	▪ NUT, Hex	1
05	3648M010	▪ WASHER, Hardened	1

CABLE INSTALLATION, CARRIAGE



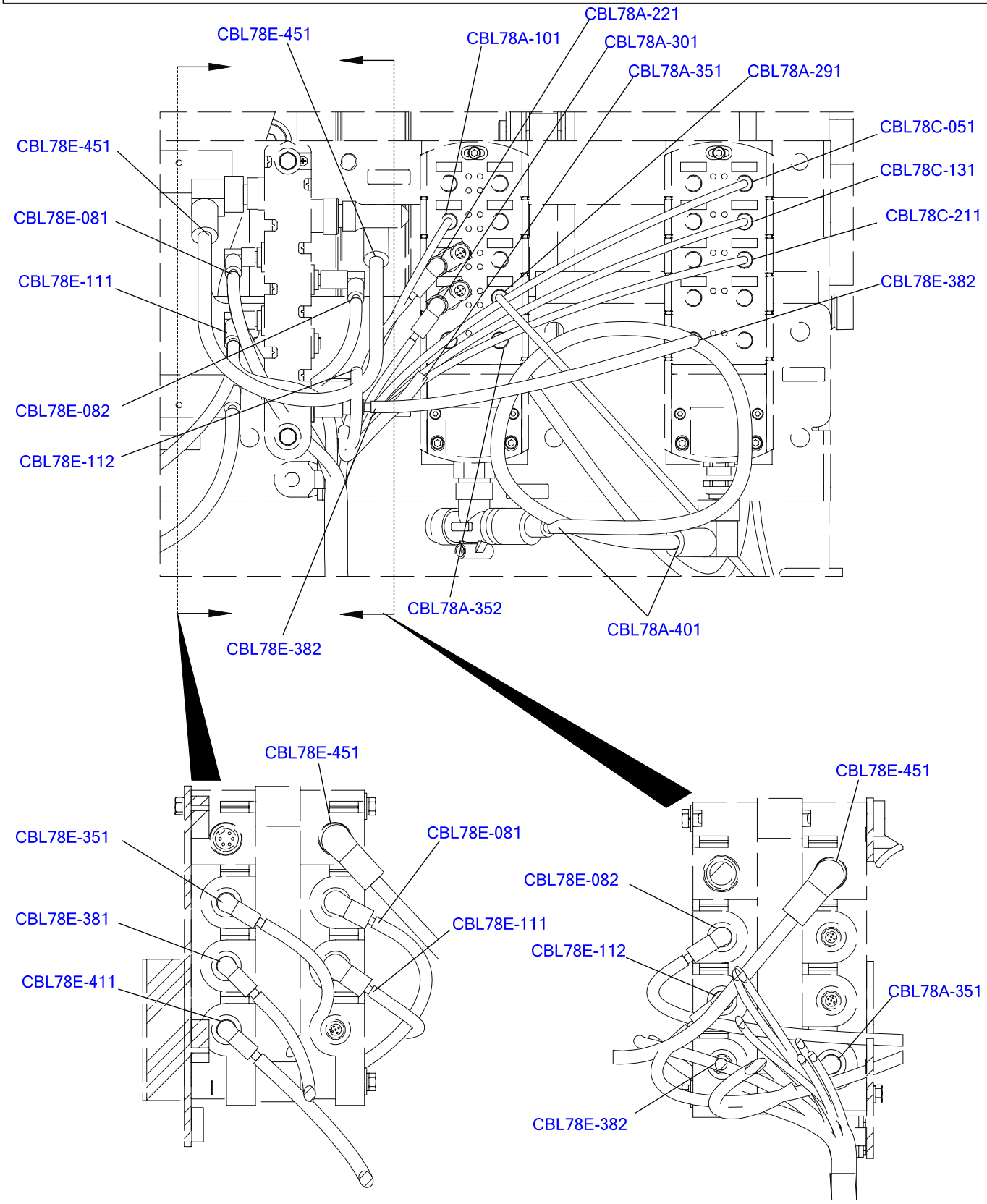
CABLE INSTALLATION, CARRIAGE

CABLE INSTALLATION, CARRIAGE



SECTIONS A, B, C & E

CABLE INSTALLATION, CARRIAGE

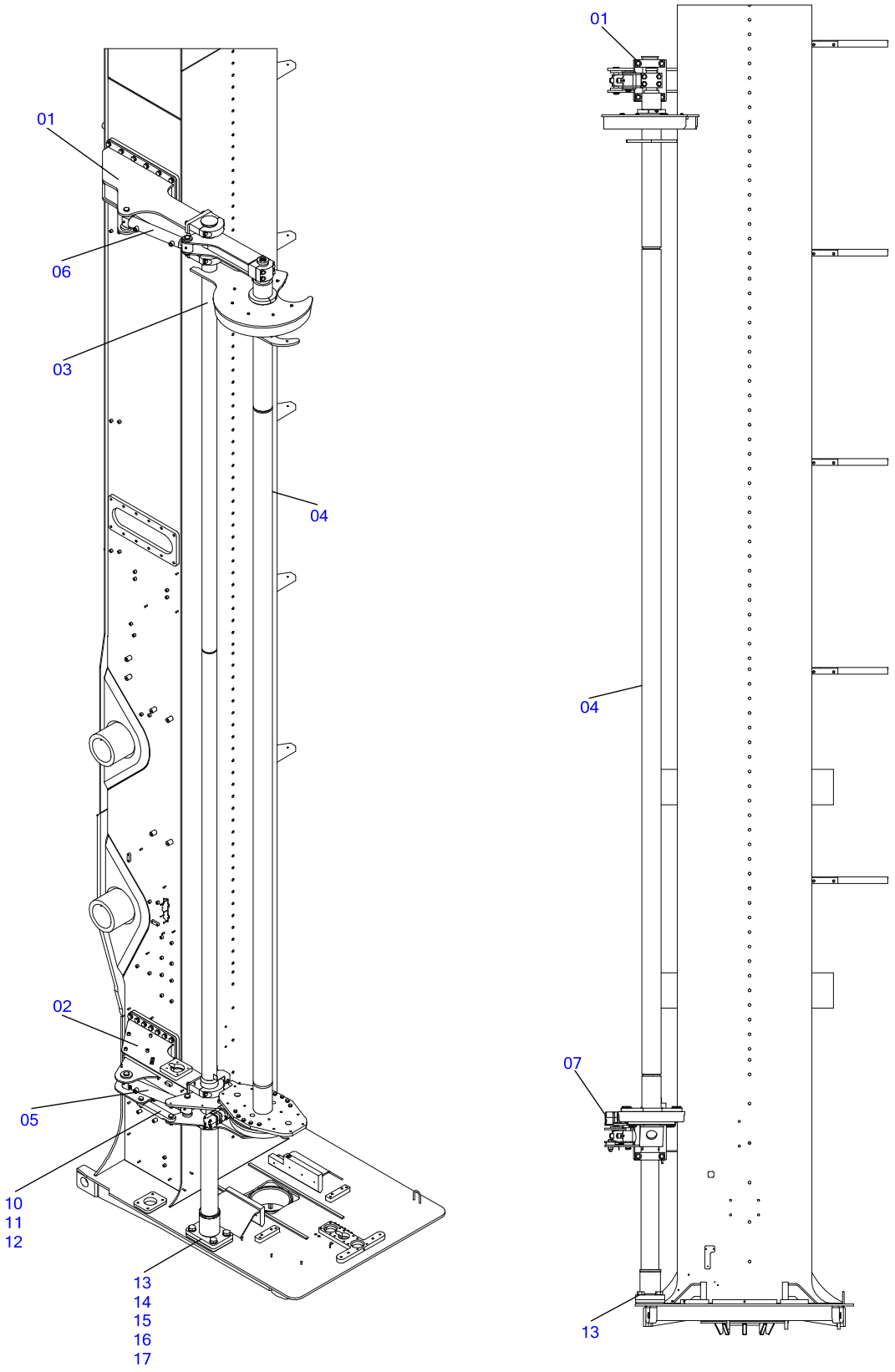


DETAIL VIEW F

CABLE INSTALLATION, CARRIAGE

Item	Part No.	Description	Qty.
	R111038F8100	CABLE INSTALLATION, CARRIAGE	
CBL78E-381	R90651T12D40	▪ CABLE, 5 Pin	1
CBL78E-411	R90651T12D40	▪ CABLE, 5 Pin	1
CBL78A-101	R90650T20D190	▪ CABLE, 2 Pin	1
CBL78A-221	R90650T14D470	▪ CABLE, 4 Pin	1
CBL78A-301	R90650T14D370	▪ CABLE, 4 Pin	1
CBL78A-351	R90651T12D30	▪ CABLE, 5 Pin	1
CBL78A-352	R90651T11D200	▪ CABLE, 5 Pin	1
CBL78A-401	R90655T11D80	▪ CABLE, 3 Pin	1
CBL78C-051	R90650T22D320	▪ CABLE, 3 Pin	1
CBL78C-131	R90650T22D560	▪ CABLE, 3 Pin	1
CBL78C-211	R90650T22D560	▪ CABLE, 3 Pin	1
CBL78A-291	R90650T21D160	▪ CABLE, 3 Pin	1
CBL78E-082	R90651T11D40	▪ CABLE, 5 Pin	1
CBL78E-112	R90651T11D40	▪ CABLE, 5 Pin	1
CBL78E-351	R90651T12D170	▪ CABLE, 5 Pin	1
CBL78E-111	R90651T12D200	▪ CABLE, 5 Pin	1
CBL78E-081	R90651T12D520	▪ CABLE, 5 Pin	1
CBL78E-382	R90651T10D50	▪ CABLE, 5 Pin	1
CBL78E-451	R90652T12D40	▪ CABLE, 5 Pin	1
20	R88249D1	▪ TIE, Wire (Not Shown)	25

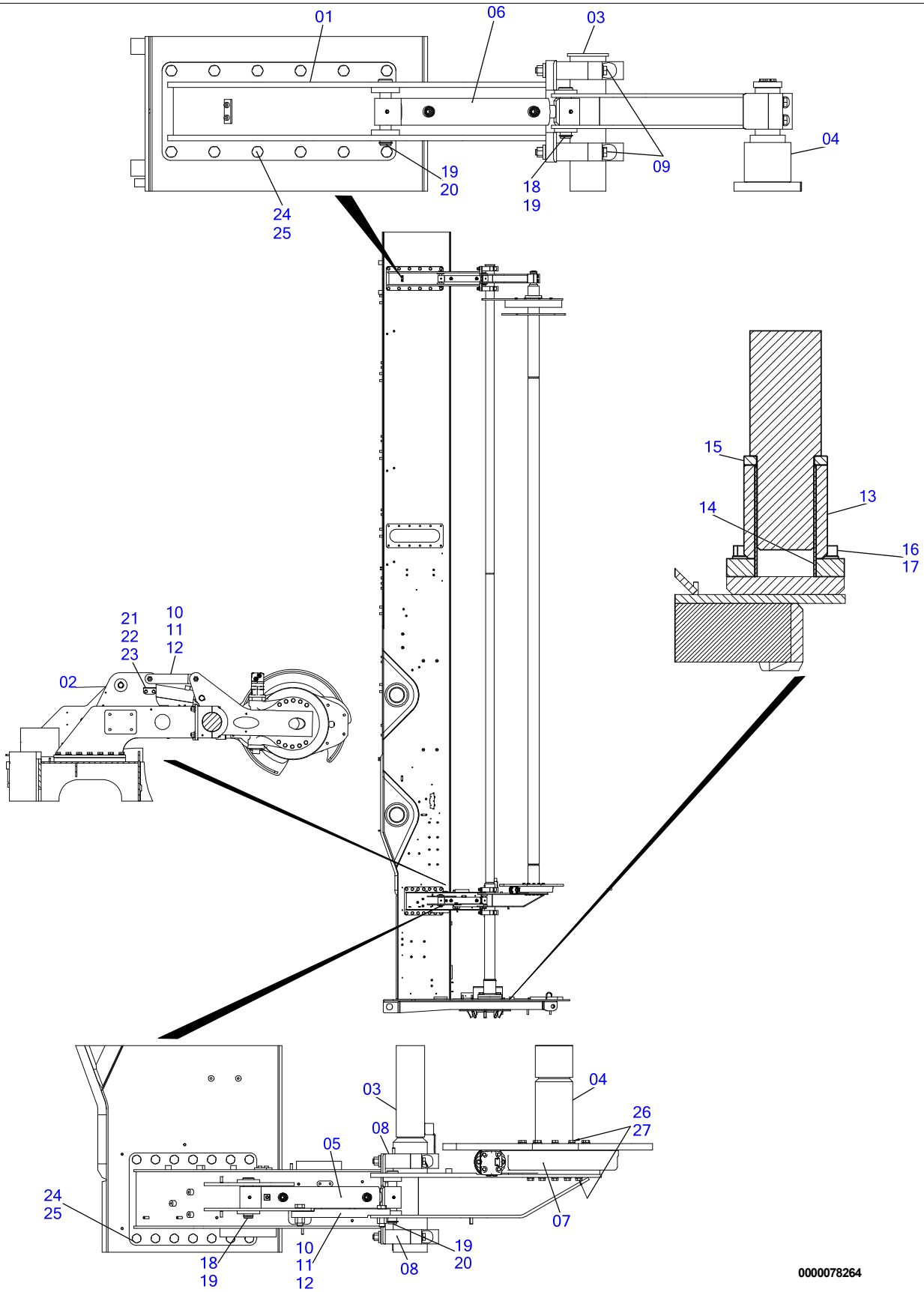
INSTALLATION, PIPE CAROUSEL



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INSTALLATION, PIPE CAROUSEL

INSTALLATION, PIPE CAROUSEL

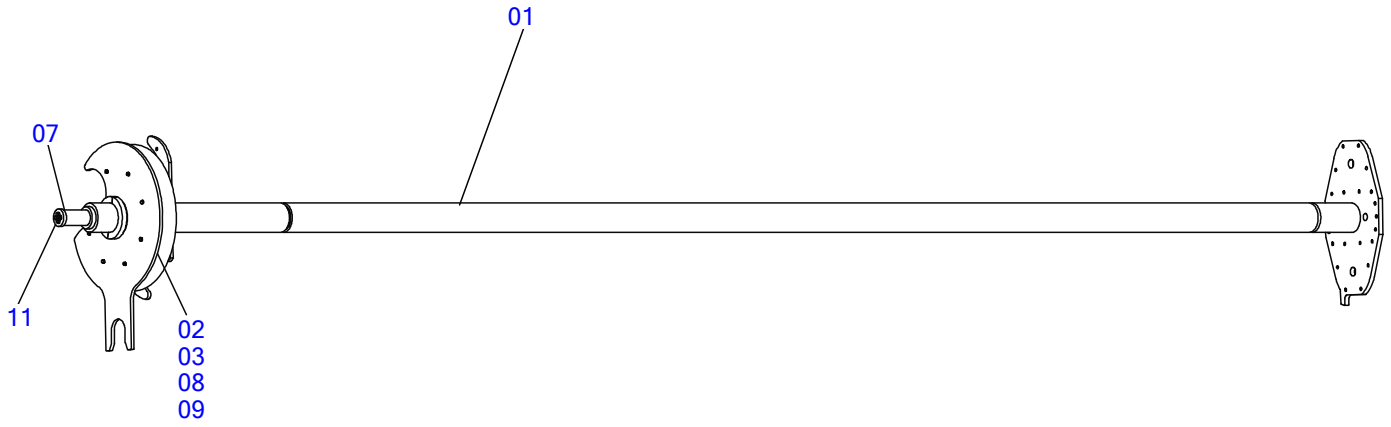


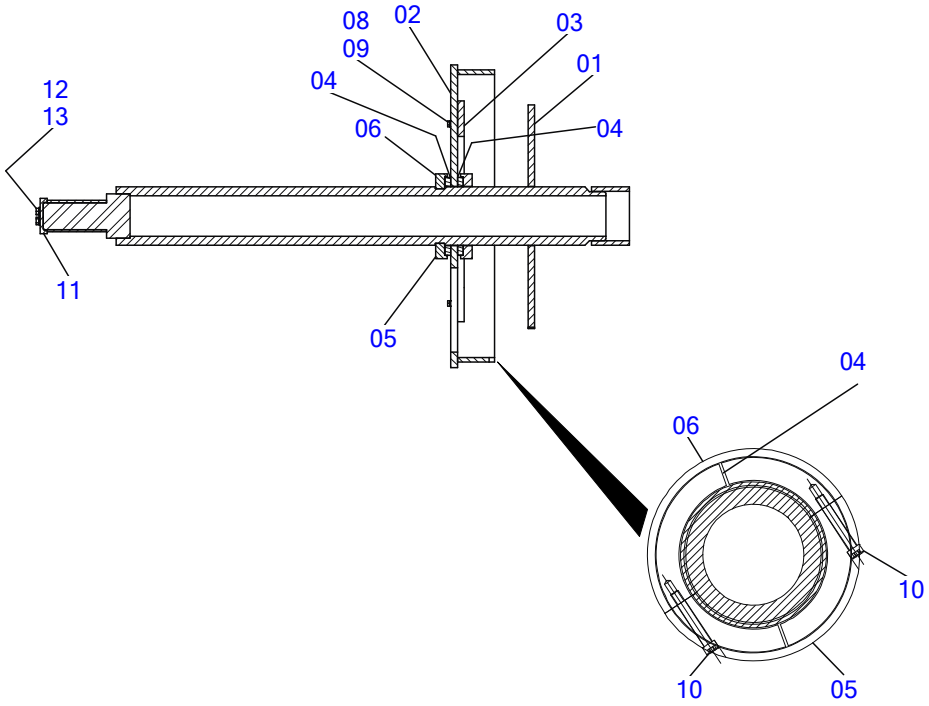
INSTALLATION, PIPE CAROUSEL

INSTALLATION, PIPE CAROUSEL

Item	Part No.	Description	Qty.	Page
	R107180F2	INSTALLATION, PIPE CAROUSEL		
01	R101865D2	· MACHINING, Upper Arm	1	
02	R106956D2	· MACHINING, Lower Arm	1	
03	R106958D1	· WELDMENT, Pivot Tube	1	
04	R103129F2	· PIPE CAROUSEL, Single Pass, 2 Pot, Assembly	1	359
05	R90379D1	· CYLINDER, Swing Carousel	1	
06	R90379D2	· CYLINDER, Swing Carousel	1	
07	R91139D1	· WORM DRIVE ASSEMBLY, Hydraulic	1	360
08	R91155F1	· BEARING BLOCK, Pipe Carousel	2	361
09	R91155F2	· BEARING BLOCK, Pipe Carousel	2	362
10	R107182D2	· LOCK PLATE, Pipe Carousel	1	
11	0825M24080	· BOLT, Hex Hd	2	
12	2104M024	· NUT, Hex	2	
13	R91132D2	· MACHINING, Pipe Carousel Support	1	
14	R91307D1	· BUSHING, Self Lubrication	1	
15	R91306D1	· WASHER, Thrust	1	
16	0825M36080	· BOLT, Hex Hd	4	
17	3648M036	· WASHER, Hardened	4	
18	R98820D15	· PIN	2	
19	R89724D40	· SNAP RING	4	
20	R98820D16	· PIN	2	
21	R107183D1	· BRACKET, Proximity Sensor	1	
22	0825M12025	· BOLT, Hex Hd	2	
23	3648M012	· WASHER, Hardened	2	
24	0825M24050	· BOLT, Hex Hd	26	
25	R82264D24	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	26	
26	0825M16075	· BOLT, Hex Hd	20	
27	3648M016	· WASHER, Hardened	20	

PIPE CAROUSEL ASSEMBLY, SINGLE PASS, 2 POT





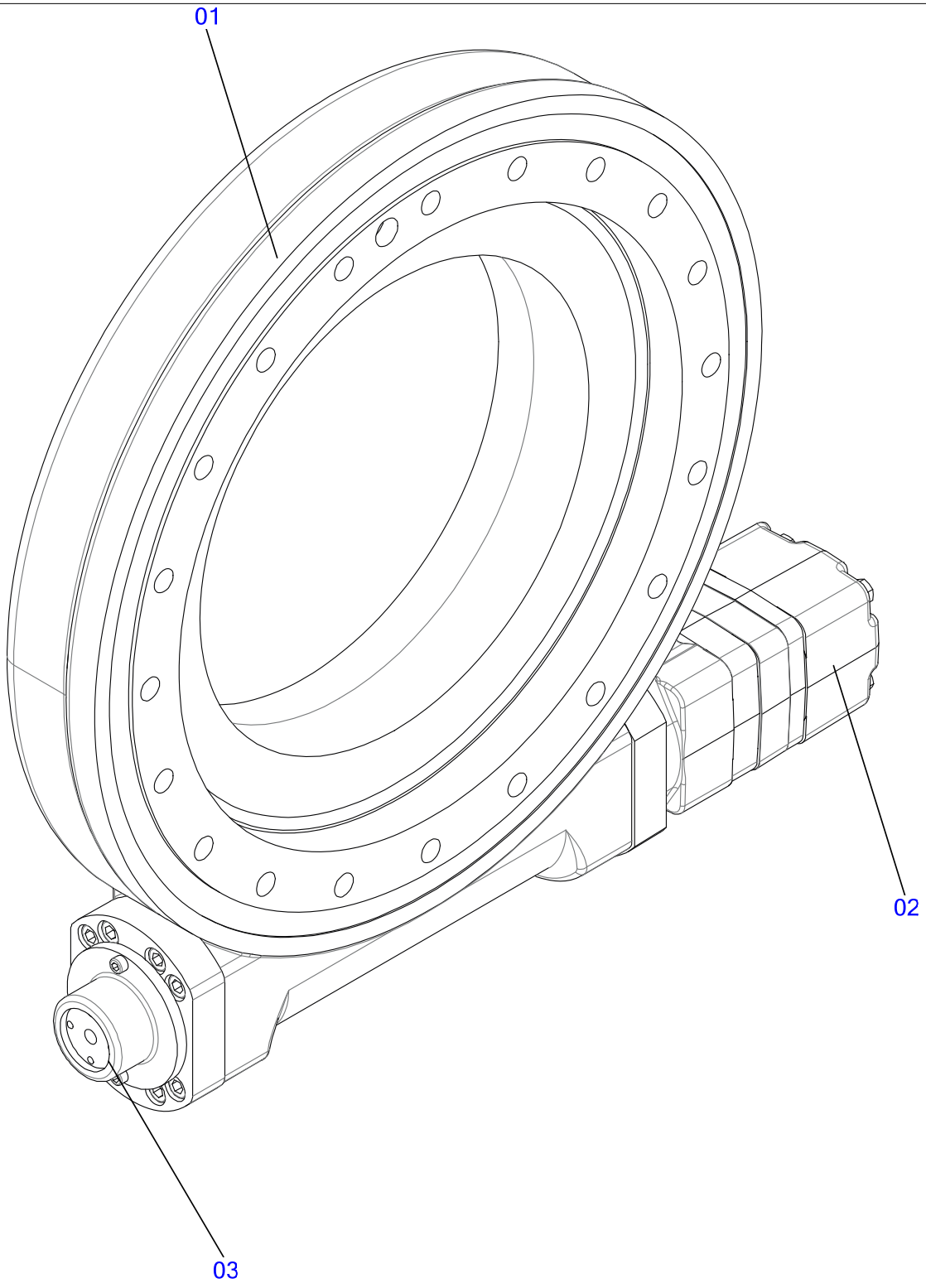
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PIPE CAROUSEL, SINGLE PASS, 2 POT, ASSEMBLY

PIPE CAROUSEL ASSEMBLY, SINGLE PASS, 2 POT

Item	Part No.	Description	Qty.
	R103129F2	PIPE CAROUSEL ASSEMBLY, SINGLE PASS, 2 POT	
01	R103121D2	· PIPE CAROUSEL, Single Pass, 2 Pot	1
02	R103122D1	· COVER, Upper Weldment	1
03	R103125D1	· SHIM, Cover	1
04	R103124D1	· THRUST WASHER, Pipe Carousel	2
05	R103123D1	· CLAMP HALF - MALE	1
06	R103123D2	· CLAMP HALF - FEMALE	1
07	R101744D1	· BUSHING, Self Lubrication	1
08	R82264D20	· LOCKWASHER SET (Two Washers per Set. Both are Required for Application.)	7
09	0825M10035	· BOLT, Hex Hd	7
10	0830M10070	· SCREW, Socket Head	2
11	R91296D1	· CAP, Carousel	1
12	0825M12030	· BOLT, Hex Hd	4
13	3612M012	· WASHER, Plain	4

WORM DRIVE ASSEMBLY, HYDRAULIC



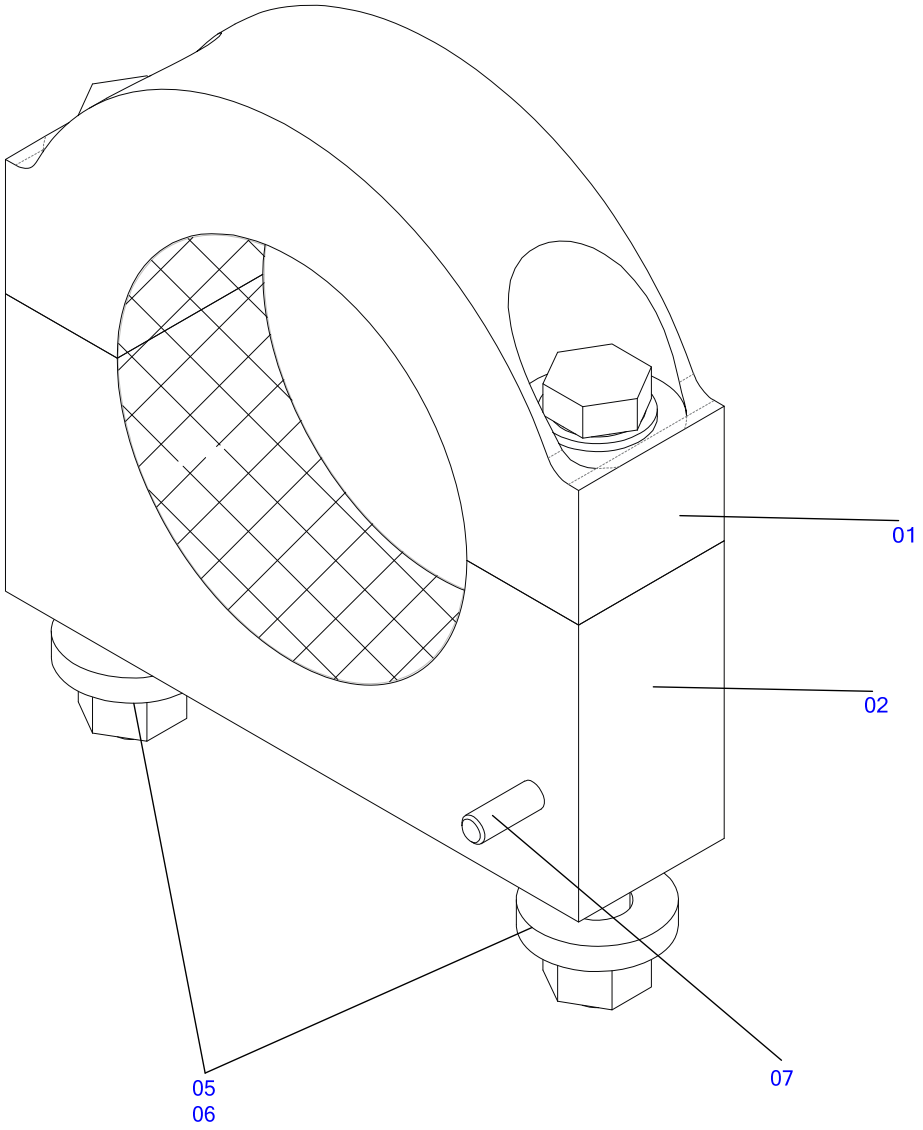
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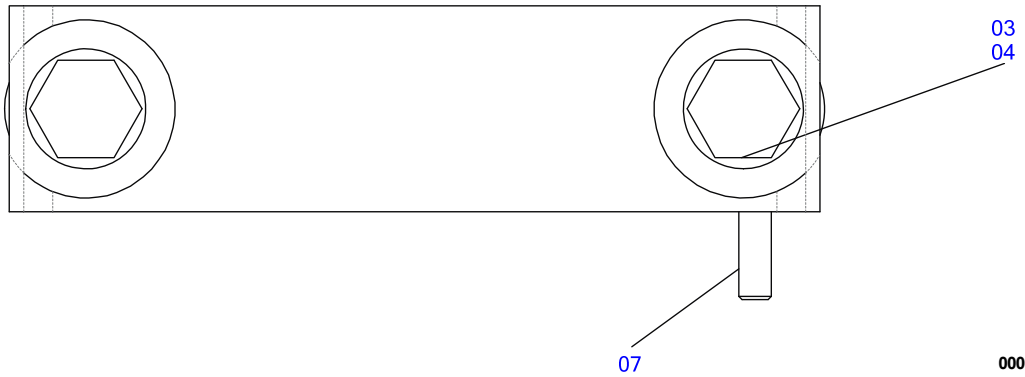
WORM DRIVE ASSEMBLY, HYDRAULIC

WORM DRIVE ASSEMBLY, HYDRAULIC

Item	Part No.	Description	Qty.
	R91139D1	WORM DRIVE ASSEMBLY, HYDRAULIC	
01	R91314D1	▪ WORM GEAR, Hydraulic	1
02	R91312D1	▪ MOTOR ASSEMBLY, Hydraulic	1
03	R91316D2	▪ END CAP, Encoder	1

BEARING BLOCK, PIPE CAROUSEL





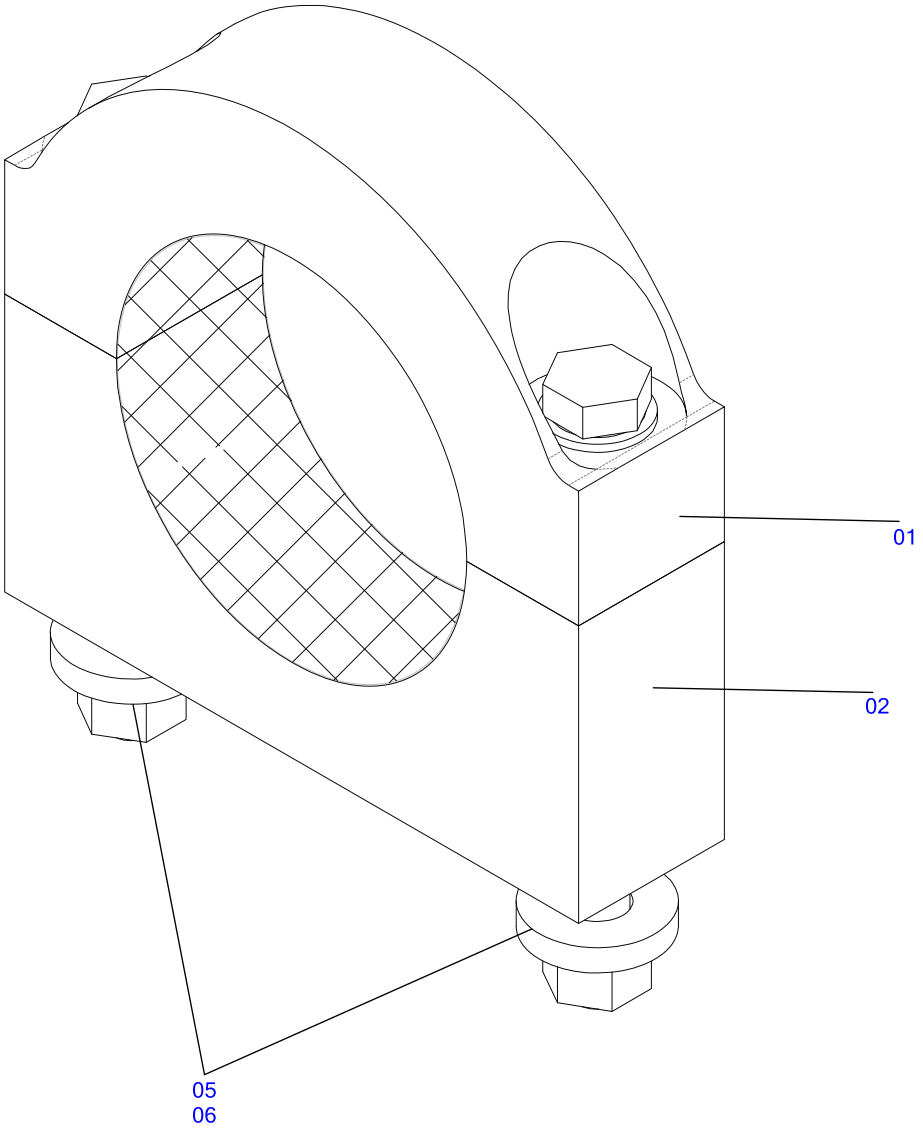
0000079005

CLASP

BEARING BLOCK, PIPE CAROUSEL

Item	Part No.	Description	Qty.
	R91155F1	BEARING BLOCK, PIPE CAROUSEL	
01	R91156D1	· CLAMP, Pipe Carousel - Top	1
02	R91157D1	· CLAMP, Pipe Carousel - Bottom	1
03	0825M20220	· BOLT, Hex Head	2
04	3648M020	· WASHER, Hardened	2
05	2104M020	· NUT, Hex	2
06	R105161D1	· PLATE, Washer	2
07	R92375D8	· STUD, Weld, M10-1.50 x 30	1

BEARING BLOCK, PIPE CAROUSEL





0000079006

CLASP

BEARING BLOCK, PIPE CAROUSEL

Item	Part No.	Description	Qty.
	R91155F2	BEARING BLOCK, PIPE CAROUSEL	
01	R91156D1	· CLAMP, Pipe Carousel - Top	1
02	R91157D1	· CLAMP, Pipe Carousel - Bottom	1
03	0825M20240	· BOLT, Hex Hd	2
04	3648M020	· WASHER, Hardened	2
05	2104M020	· NUT, Hex	2
06	R105161D1	· PLATE, Washer	2

BIT CAROUSEL GROUP

Item	Part No.	Description	Qty.	Page
	R9013046F1	BIT CAROUSEL GROUP		
01	R9013045F1	▪ BIT CAROUSEL INSTALLATION	1	364
02	R111038F8300	▪ CABLE INSTALLATION, BIT HANDLING	1	371
03	R89903F1	▪ MECHANICAL INSTALLATION, BIT CAROUSEL	1	372

BIT CAROUSEL INSTALLATION

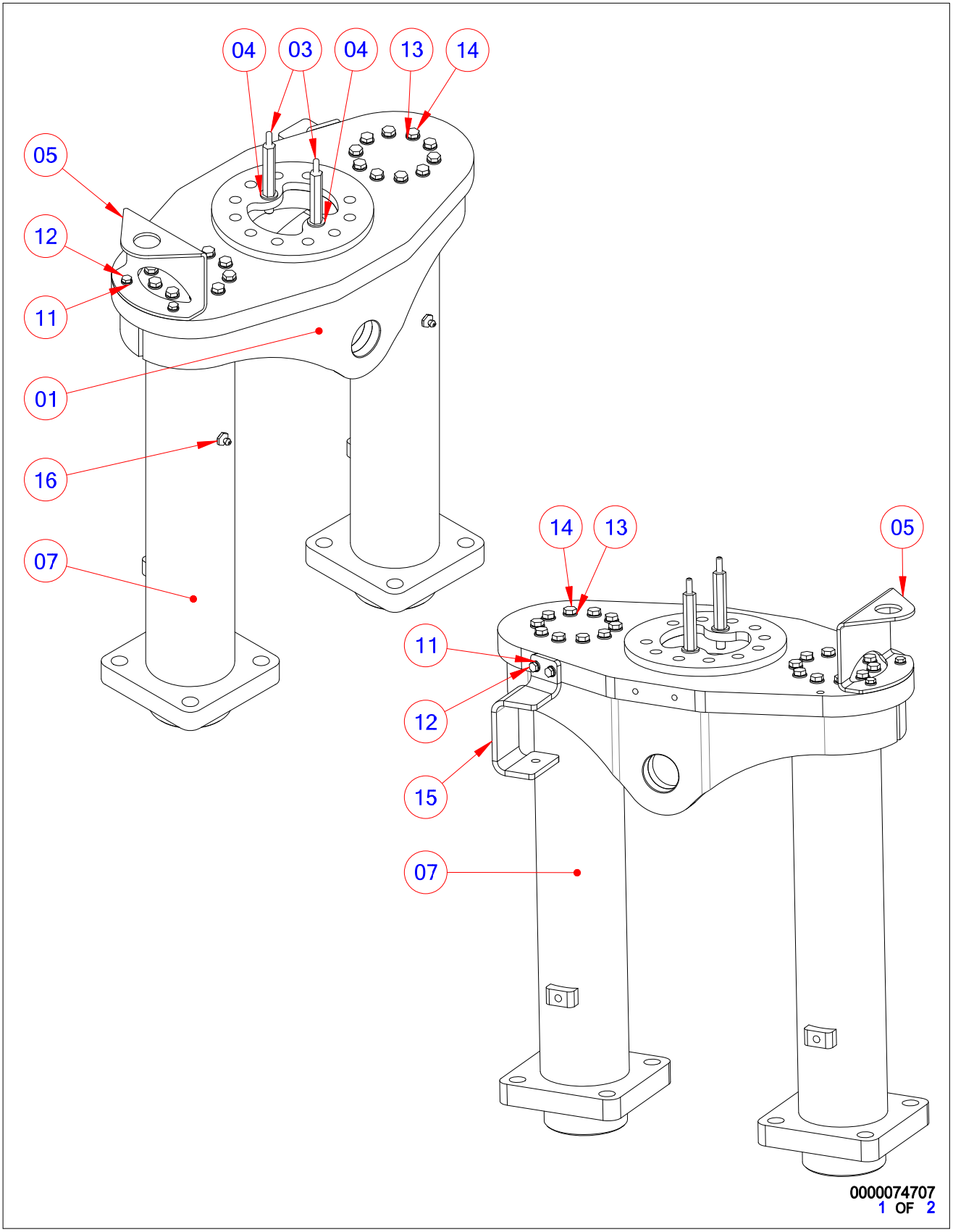
Item	Part No.	Description	Qty.	Page
	R9013045F1	BIT CAROUSEL INSTALLATION		
01	R9013044F1	・MOUNTING ASSEMBLY, Bit Carousel	1	365
02	R90332D1	・RAISE CYLINDER, Bit Carousel	1	
03	R90641D1	・STANDOFF, Cable	1	
04	R88247D1	・MOUNT, Single	1	
05	R91715D1	・DECALS, Bit Handling	1	
06	R98820D11	・PIN	1	
07	R89724D45	・SNAP RING,External Metric, 45mm	1	
08	R90575D2	・SWITCH, Proximity, Normally Closed (NC)	1	
09	R99305F1	・HOLDER INSTALLATION, Deck Bushing	1	
09A	R90322D2	・・HOLDER, Deck Bushing	1	
09B	3648M008	・・WASHER, Hardened	8	
09C	2104M008	・・NUT, Hex	4	
09D	0825M08035	・・BOLT, Hex Hd	4	
10	3648M010	・WASHER, Hardened	2	
11	R107799D16040	・SPACER, Bolt	12	
12	0825M16090	・BOLT, Hex Hd	12	
13	0825M10020	・BOLT, Hex Hd	2	
14	21Z772D4	・COMPOUND, Sealing and Locking	1	

KOMATSU

MOUNTING ASSEMBLY, BIT CAROUSEL

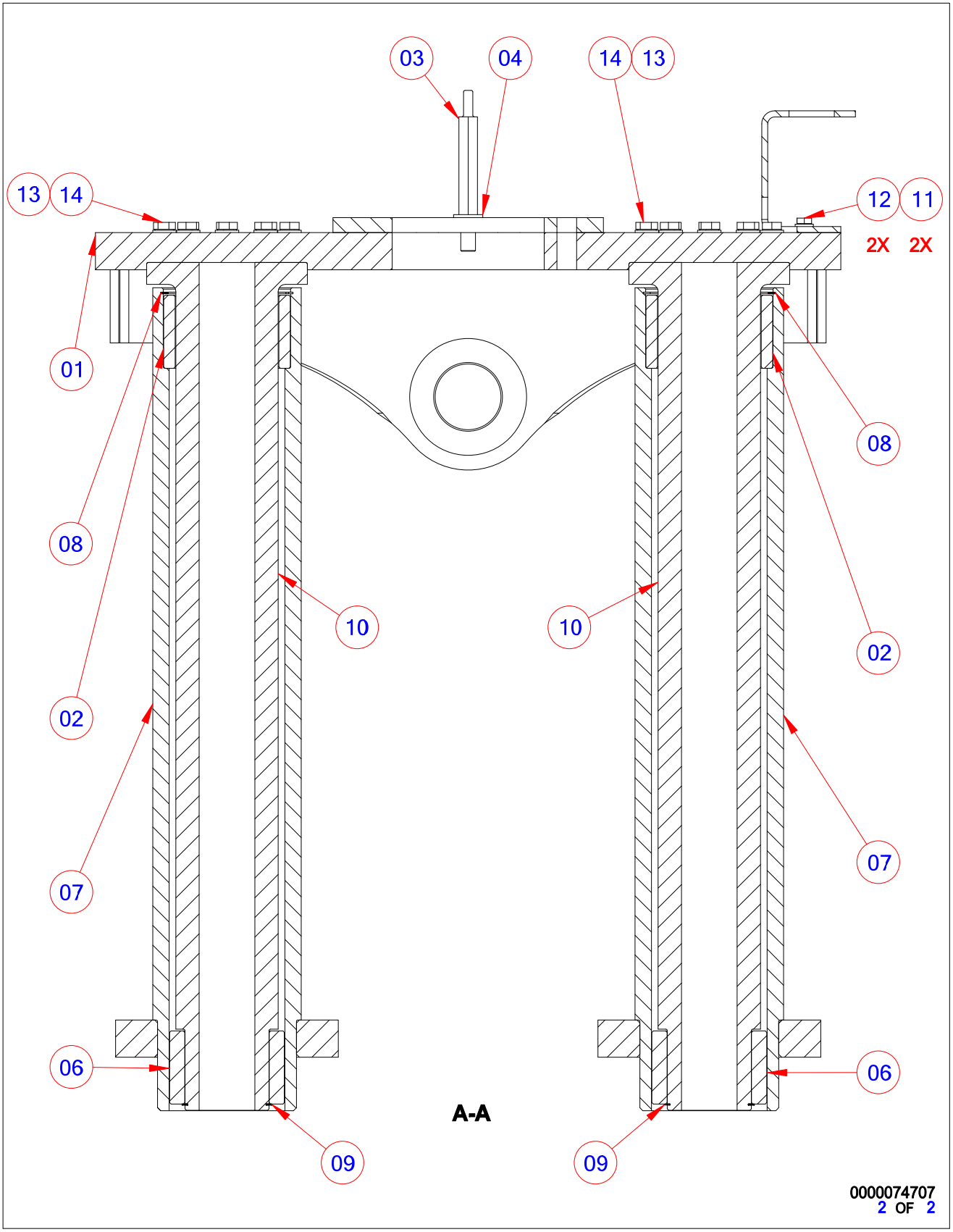
Item	Part No.	Description	Qty.	Page
	R9013044F1	MOUNTING ASSEMBLY, BIT CAROUSEL		
01	R104478F1	· CARRIER ASSEMBLY, Bit Carousel	1	366
02	R89764D1	· WORM DRIVE ASSEMBLY, Hydraulic	1	
03	R9002861F1	· BIT CAROUSEL ASSEMBLY	1	367
04	R90323D1	· BRACKET, Rotary Union	1	
05	R90337D1	· ROTARY UNION, 2 Passage	1	
06	R104480D1	· SUPPORT COVER BRACKET, Bit Carousel	1	
07	R76257D2	· ENCODER, Absolute, CANopen	1	
08	R104481D1	· COVER, Bit Carousel, Left Side	1	
09	R104482D1	· COVER, Bit Carousel, Left Side	1	
10	R89776D2	· CONNECTOR, Union	2	
11	R89792D6	· CONNECTOR	2	
12	R89792D5	· CONNECTOR	2	
13	R89792D2	· CONNECTOR	2	
14	R89772D1	· CONNECTOR	4	
15	R89794D2	· CONNECTOR	2	
16	44Z2572D2	· PLATE, Clamp Cover	1	
17	44Z2571D25	· CLAMP (DOUBLE)	1	
18	R89782T06M20D56	· HOSE ASSEMBLY	1	
19	R89782T06M20D56	· HOSE ASSEMBLY	1	
20	R89782T06M20D46	· HOSE ASSEMBLY	1	
21	R89782T06M20D46	· HOSE ASSEMBLY	1	
22	R99039D1	· TUBE ASSEMBLY, Rotary Union	1	
23	R99039D2	· TUBE ASSEMBLY, Rotary Union	1	
24	R99039D3	· TUBE ASSEMBLY, Rotary Union	1	
25	R99039D5	· TUBE ASSEMBLY, Rotary Union	1	
26	0830M03010	· SCREW, Socket Hd	3	
27	R102392D1	· SCREW, Set	4	
28	0825M06016	· BOLT, Hex Hd	4	
29	0825M08016	· BOLT, Hex Hd	16	
30	0825M08055	· BOLT, Hex Hd	1	
31	0825M12045	· BOLT, Hex Hd	10	
32	0825M12070	· BOLT, Hex Hd	11	
33	3648M003	· WASHER, Hardened	3	
34	3648M006	· WASHER, Hardened	4	
35	3648M008	· WASHER, Hardened	18	
36	3648M012	· WASHER, Hardened	21	
37	2104M008	· NUT, Hex	1	
38	21Z772D2	· COMPOUND, Sealing and Locking	1	

CARRIER ASSEMBLY, BIT CAROUSEL



ASSY,CARRIER,BIT CAROUSEL

CARRIER ASSEMBLY, BIT CAROUSEL



ASSY,CARRIER,BIT CAROUSEL

CARRIER ASSEMBLY, BIT CAROUSEL

Item	Part No.	Description	Qty.
	R104478F1	CARRIER ASSEMBLY, BIT CAROUSEL	
01	R104483D2	· CARRIER, Bit Carousel	1
02	R104484D1	· GUIDE BUSHING, Bit Carousel	2
03	R90314D1	· PIN, Anti-Rotation, Bit Carousel	2
04	3612M010	· WASHER, Plain	2
05	R104494D1	· BRACKET, Proximity Sensor	1
06	R104485D1	· CARRIER BUSHING, Bit Carousel	2
07	R104486D2	· GUIDE, Bit Carousel	2
08	R99193D1	· SNAP RING, Light Duty, 88mm	2
09	R104503D1	· SNAP RING, Light Duty, 56mm	2
10	R104820D1	· CARRIER TUBE, Bit Carousel	2
11	3648M006	· WASHER, Hardened	4
12	0825M06016	· BOLT, Hex Hd	4
13	3612M008	· WASHER, Plain	20
14	0825M08035	· BOLT, Hex Hd	20
15	R104821D1	· BRACKET, Hose Clamp	1
16	44Z1D14	· FITTING, Lube	2

BIT CAROUSEL ASSEMBLY

Item	Part No.	Description	Qty.	Page
	R9002861F1	BIT CAROUSEL ASSEMBLY		
01	R9001997D2	▪ BIT CAROUSEL	1	
02	R91327D2	▪ HYDRAULIC MOTOR, Bit Carousel	1	
03	R91061D1	▪ BOLT, Hex Head	1	
04	R104504D1	▪ BEARING	8	
05	R104505D1	▪ SNAP RING, Light Duty, 200mm	4	
06	R9001998D1	▪ PIPE, Thread Cap	4	
07	R9001999D1	▪ PLATE, Tube Bottom	4	
08	R9001987D1	▪ SPROCKET, Synchronous	4	
09	R9002000D1	▪ SPACER, Sprocket	4	
10	R9001996D1	▪ SPACER, Motor	1	
11	R9001988D1	▪ SPROCKET, Synchronous	1	
12	R91399D3	▪ BUSHING, Taper Lock	1	
13	R9001993F1	▪ IDLER ASSEMBLY, Belt Drive	1	368
14	R9001991F1	▪ IDLER ASSEMBLY, Belt Drive	1	369
15	R9001995F1	▪ TENSIONER ASSEMBLY, Belt Drive	1	370
16	R116694D2	▪ COVER, Spring	1	
17	R118319D1	▪ SPRING, Compression	1	
18	R9001989D1	▪ BELT, Synchronous	1	
19	R9002154D1	▪ SHIM, 0.010 inch / 0.25mm	12	
20	3648M008	▪ WASHER, Hardened	48	
21	0830M08100	▪ SCREW, Socket Hd	48	
22	0830M08025	▪ SCREW, Socket Hd	48	
23	0830M12070	▪ SCREW, Socket Hd	4	
24	R107799D10020	▪ SPACER, Bolt	15	
25	0825M10045	▪ BOLT, Hex Hd	15	
26	R122205D012	▪ WASHER, Oversized	5	
27	R107799D12040	▪ SPACER, Bolt	5	
28	0825M12075	▪ BOLT, Hex Hd	5	
29	R107799D10030	▪ SPACER, Bolt	4	
30	0825M10055	▪ BOLT, Hex Hd	4	
31	2104M012	▪ NUT, Hex	1	
32	21Z772D4	▪ COMPOUND, Sealing and Locking	1	

IDLER ASSEMBLY, BELT DRIVE

Item	Part No.	Description	Qty.
	R9001993F1	IDLER ASSEMBLY, BELT DRIVE	
01	R9001992D1	▪ BASE, Sproket Idler	1
02	R90345D2	▪ WASHER, Idler Bearing	2
03	0825M08016	▪ BOLT, Hex Head	2
04	R9001990D1	▪ IDLER	2
05	R9002151D1	▪ BEARING	4

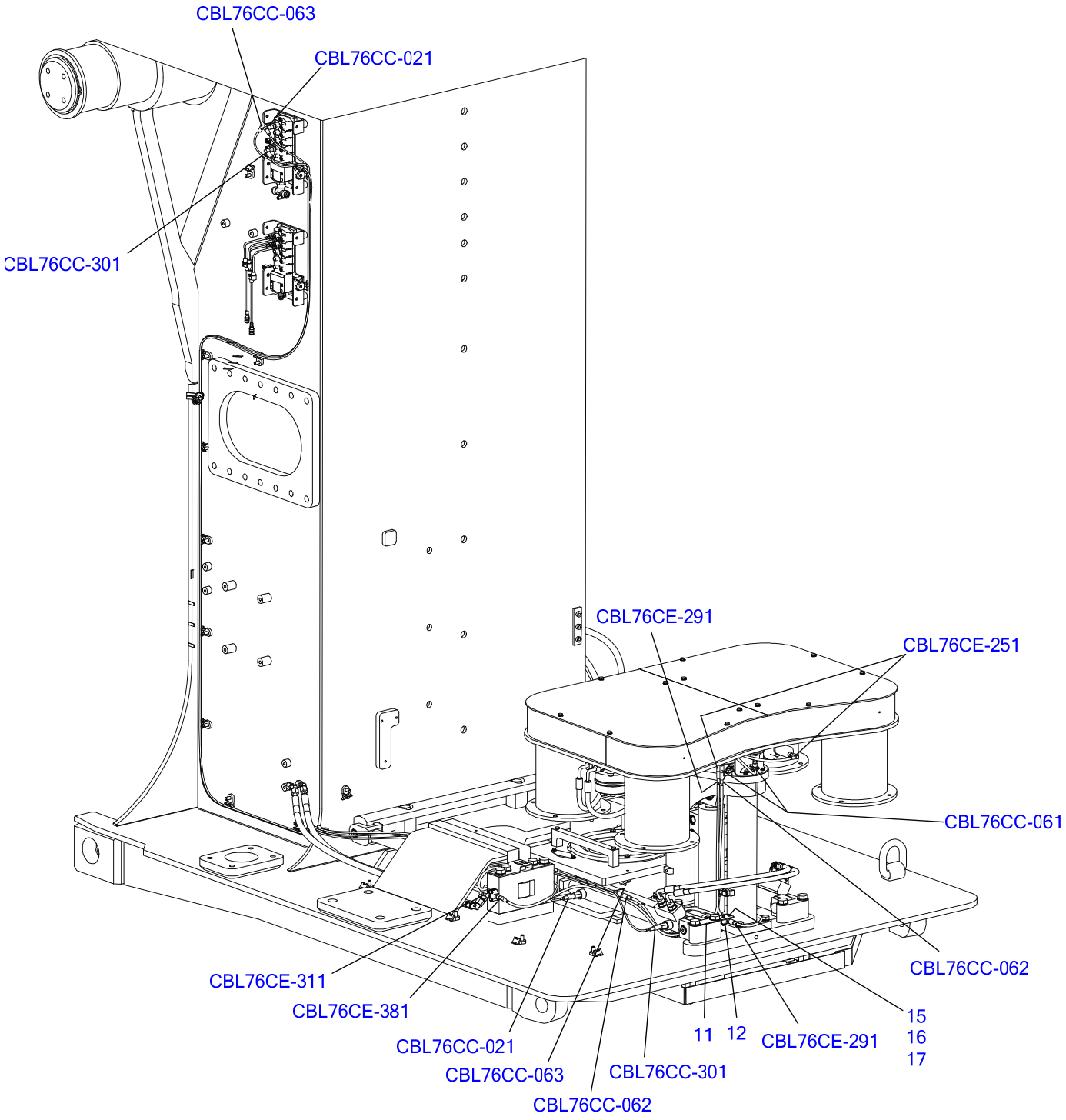
IDLER ASSEMBLY, BELT DRIVE

Item	Part No.	Description	Qty.
	R9001991F1	IDLER ASSEMBLY, BELT DRIVE	
01	R9002153D1	▪ BASE, Sprocket Idler	1
02	R90345D2	▪ WASHER, Idler Bearing	1
03	0825M08016	▪ BOLT, Hex Hd	1
04	R9001990D1	▪ IDLER	1
05	R9002151D1	▪ BEARING	2

TENSIONER ASSEMBLY, BELT DRIVE

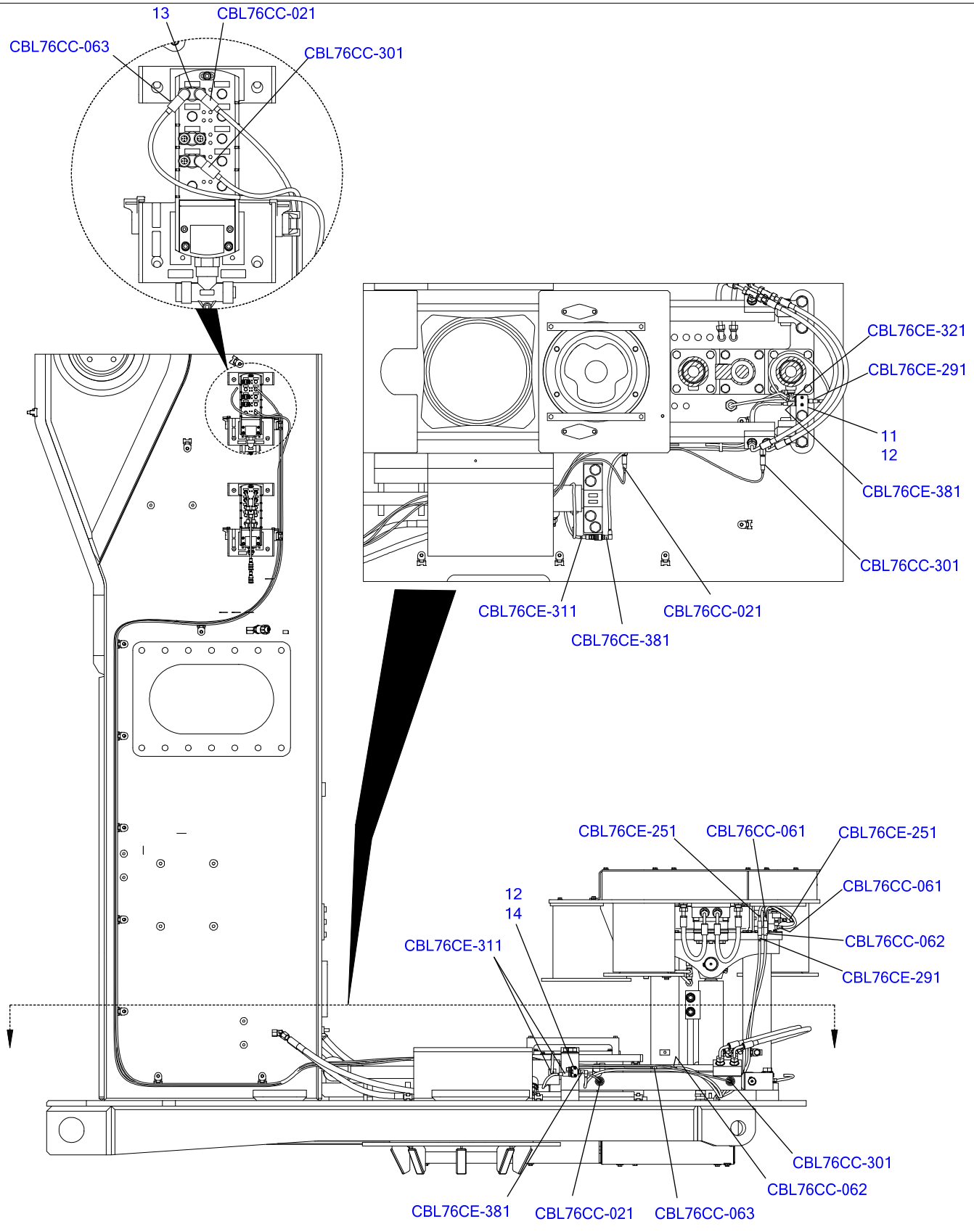
Item	Part No.	Description	Qty.
	R9001995F1	TENSIONER ASSEMBLY, BELT DRIVE	
01	R9001994D1	▪ BASE, Sprocket Tensioner	1
02	R9001990D1	▪ IDLER	1
03	R9002151D1	▪ BEARING	2
04	R90345D2	▪ WASHER, Idler Bearing	1
05	0825M08016	▪ BOLT, Hex Hd	1

INSTALLATION, BIT HANDLING CABLE



CABLE INSTALLATION, BIT HANDLING ISO VIEW

INSTALLATION, BIT HANDLING CABLE



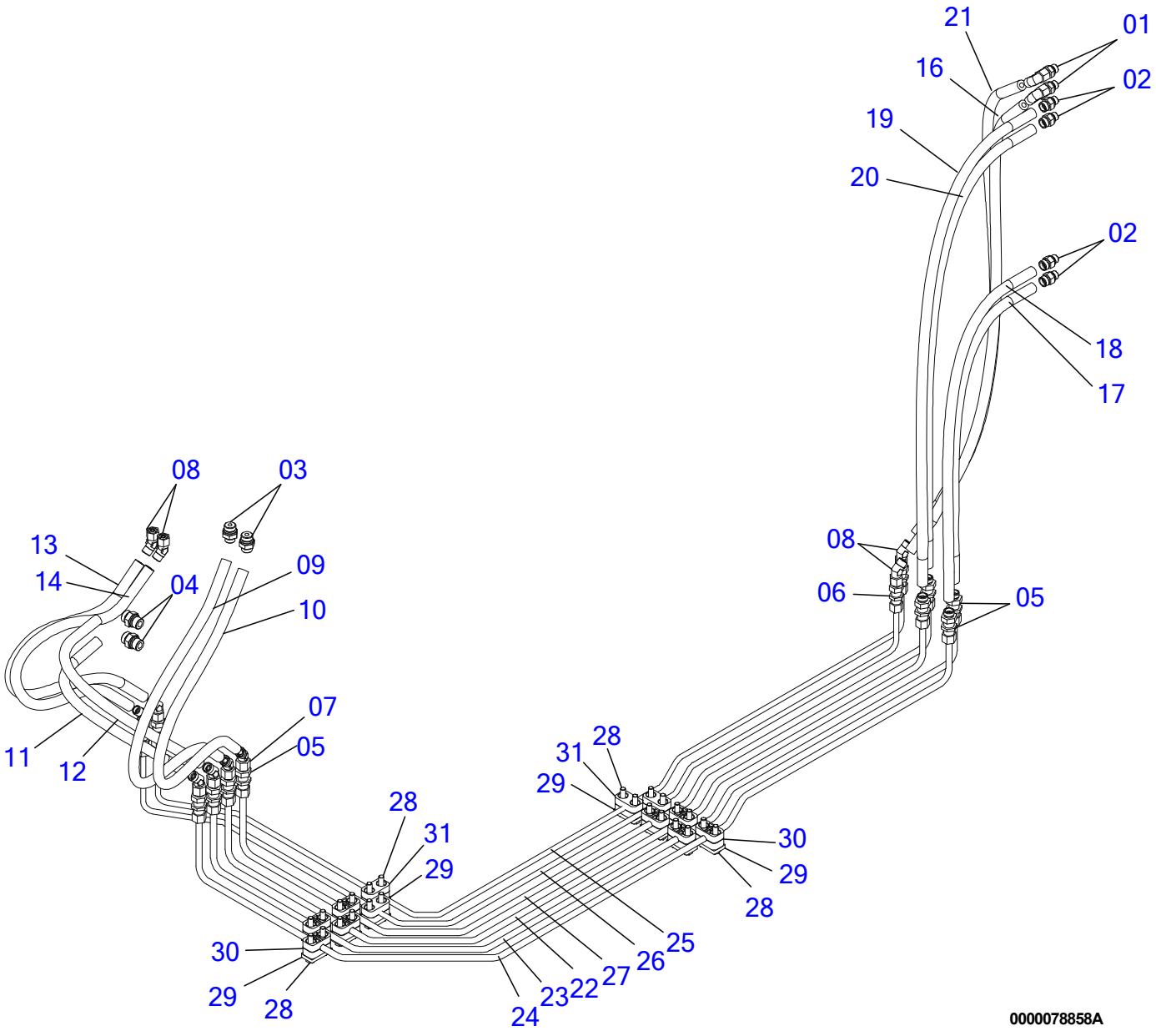
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CABLE INSTALLATION, BIT HANDLING

INSTALLATION, BIT HANDLING CABLE

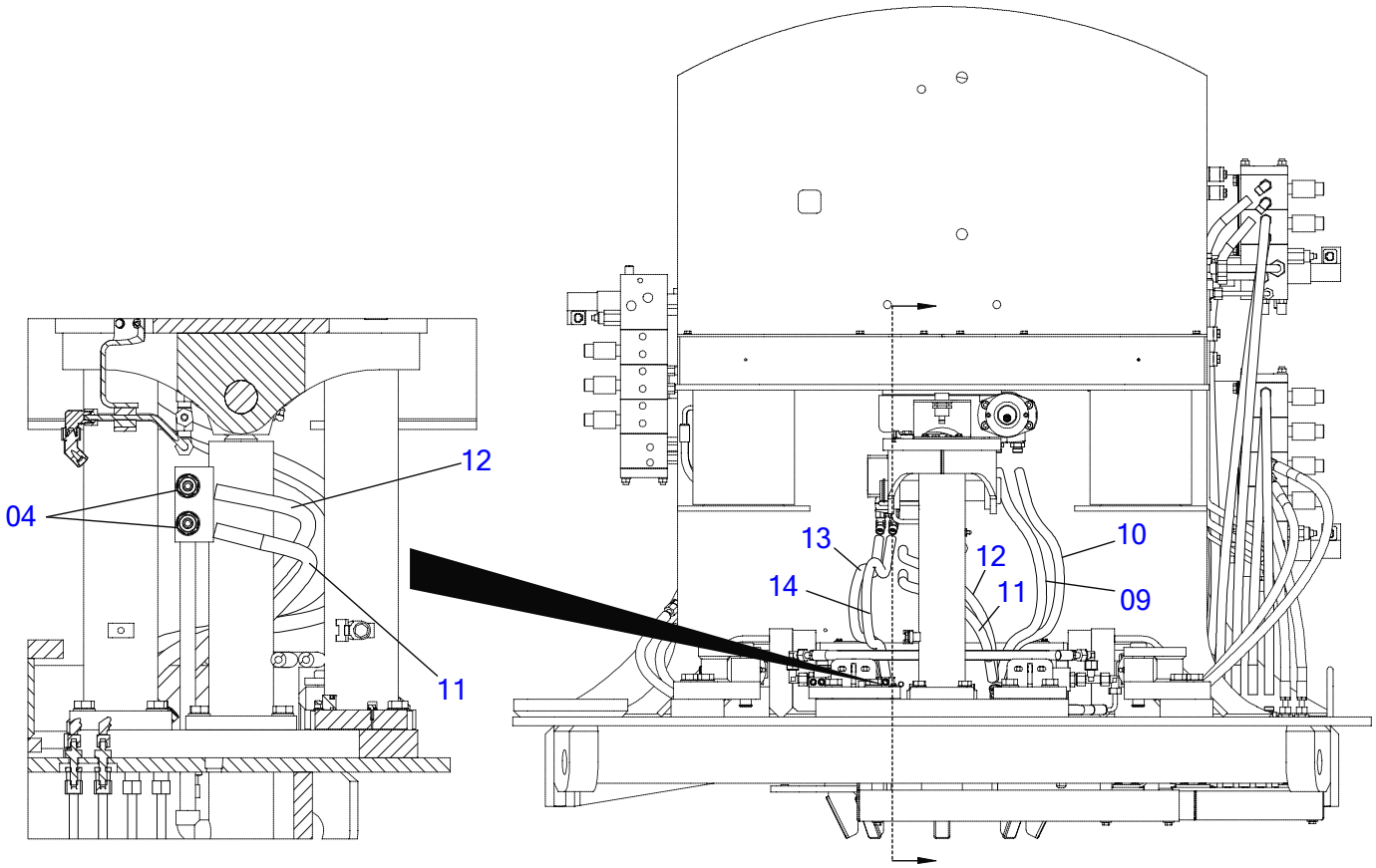
Item	Part No.	Description	Qty.
	R111038F8300	INSTALLATION, BIT HANDLING CABLE	
CBL76CC-062	R91488D1	▪ CABLE COIL, 4 Pin	1
CBL76CC-063	R90650T14D560	▪ CABLE, 4 Pin	1
CBL76CE-251	R90651T13D50	▪ CABLE, 5 Pin	1
CBL76CE-291	R91489D1	▪ CABLE COIL, 5 Pin	1
CBL76CE-311	R90651T10D70	▪ CABLE, 5 Pin	1
CBL76CE-321	R90651T10D70	▪ CABLE, 5 Pin	1
CBL76CE-381	R90651T11D120	▪ CABLE, 5 Pin	1
CBL76CC-061	R90650T13D40	▪ CABLE, 4 Pin	1
CBL76CC-301	R90650T14D560	▪ CABLE, 4 Pin	1
CBL76CC-021	R90650T14D560	▪ CABLE, 4 Pin	1
11	R109333D1	▪ PLATE, Centering	1
12	R4286130	▪ CAN Y MALE - 2 FEM TURCK	2
13	R91485D1	▪ Y-SPLITTER, I/O	1
14	0630M04020	▪ SCREW, Socket Hd	2
15	0630M04030	▪ SCREW, Socket Hd	2
16	3648M004	▪ WASHER, Hardened	4
17	2104M004	▪ NUT, Hex	2
18	R88249D1	▪ TIE, Wire (Not Shown)	25

MECHANICAL INSTALLATION, BIT CAROUSEL



ISO VIEW

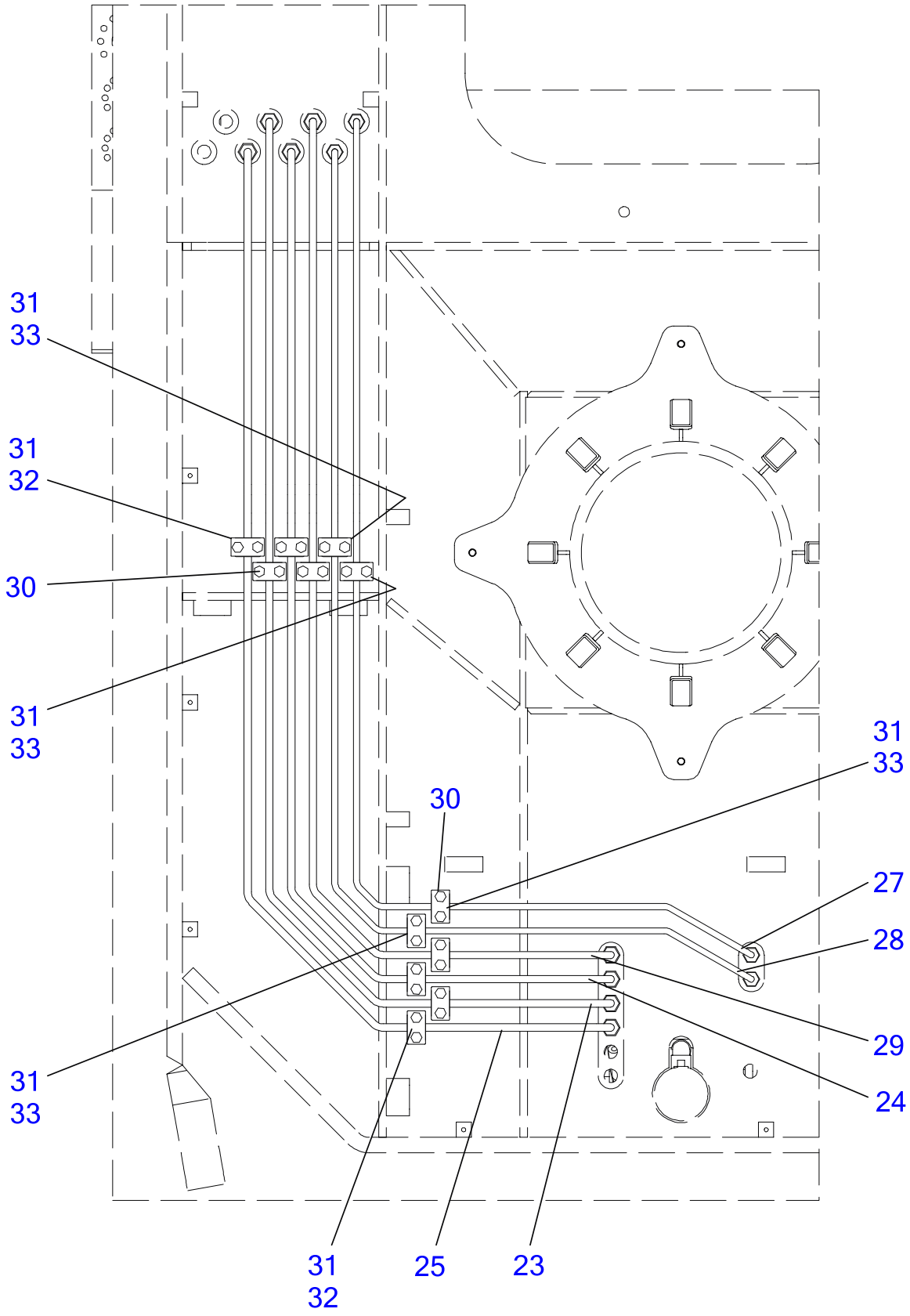
MECHANICAL INSTALLATION, BIT CAROUSEL



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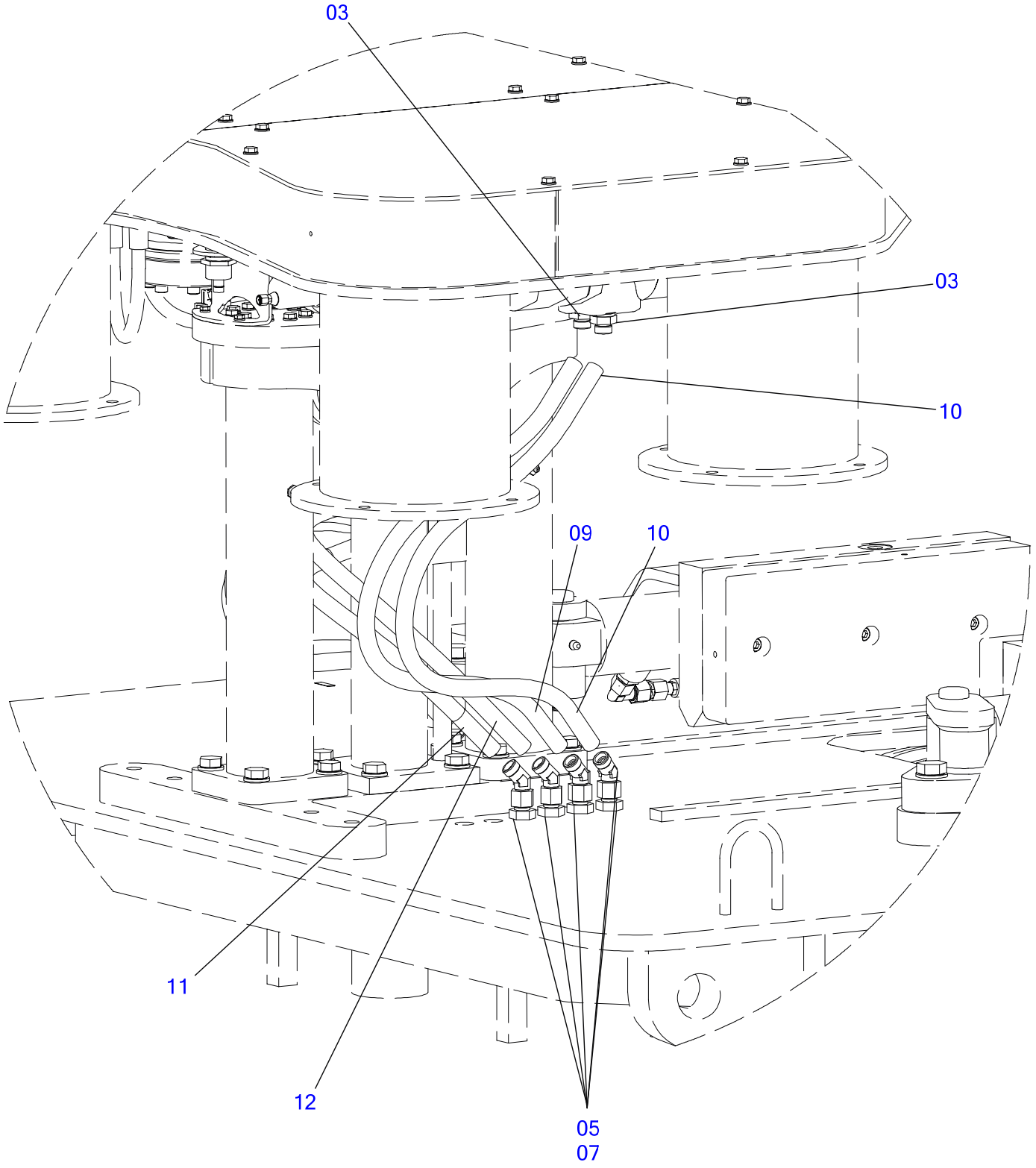
BACK VIEW

MECHANICAL INSTALLATION, BIT CAROUSEL



BOTTOM VIEW

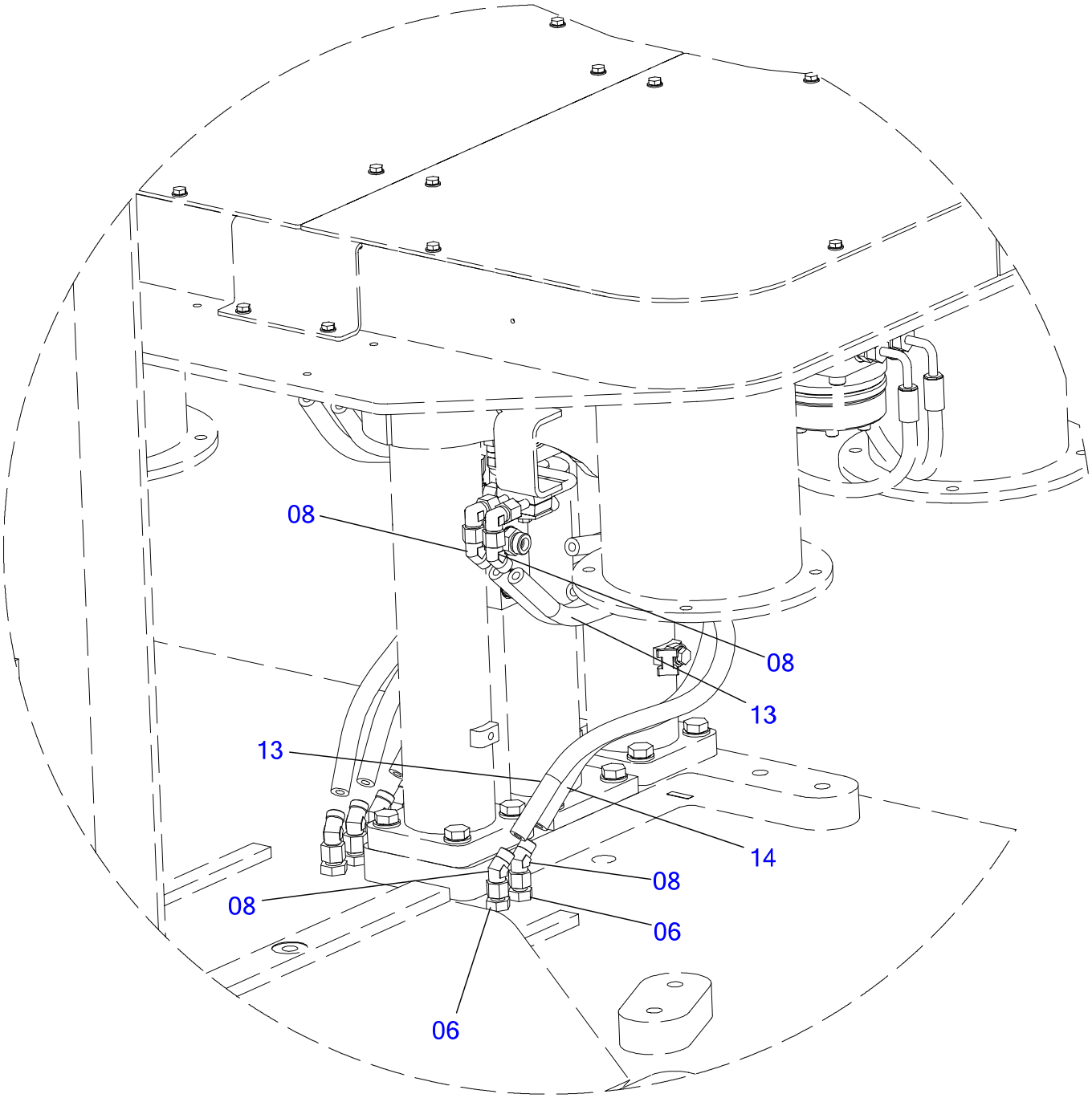
MECHANICAL INSTALLATION, BIT CAROUSEL



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SLEW DRIVE HOSE DETAIL

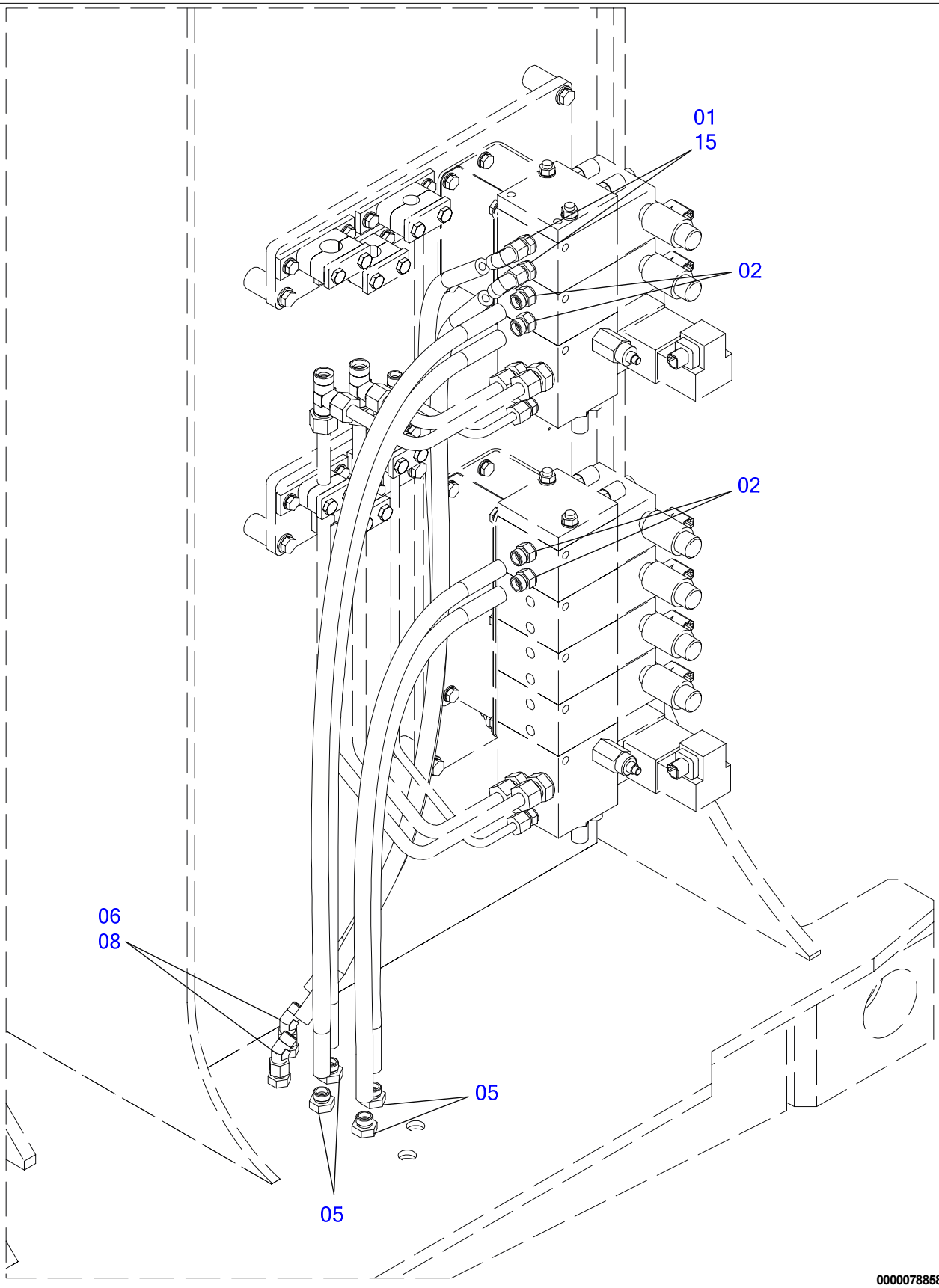
MECHANICAL INSTALLATION, BIT CAROUSEL



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THREAD MOTOR HOSE DETAIL

MECHANICAL INSTALLATION, BIT CAROUSEL

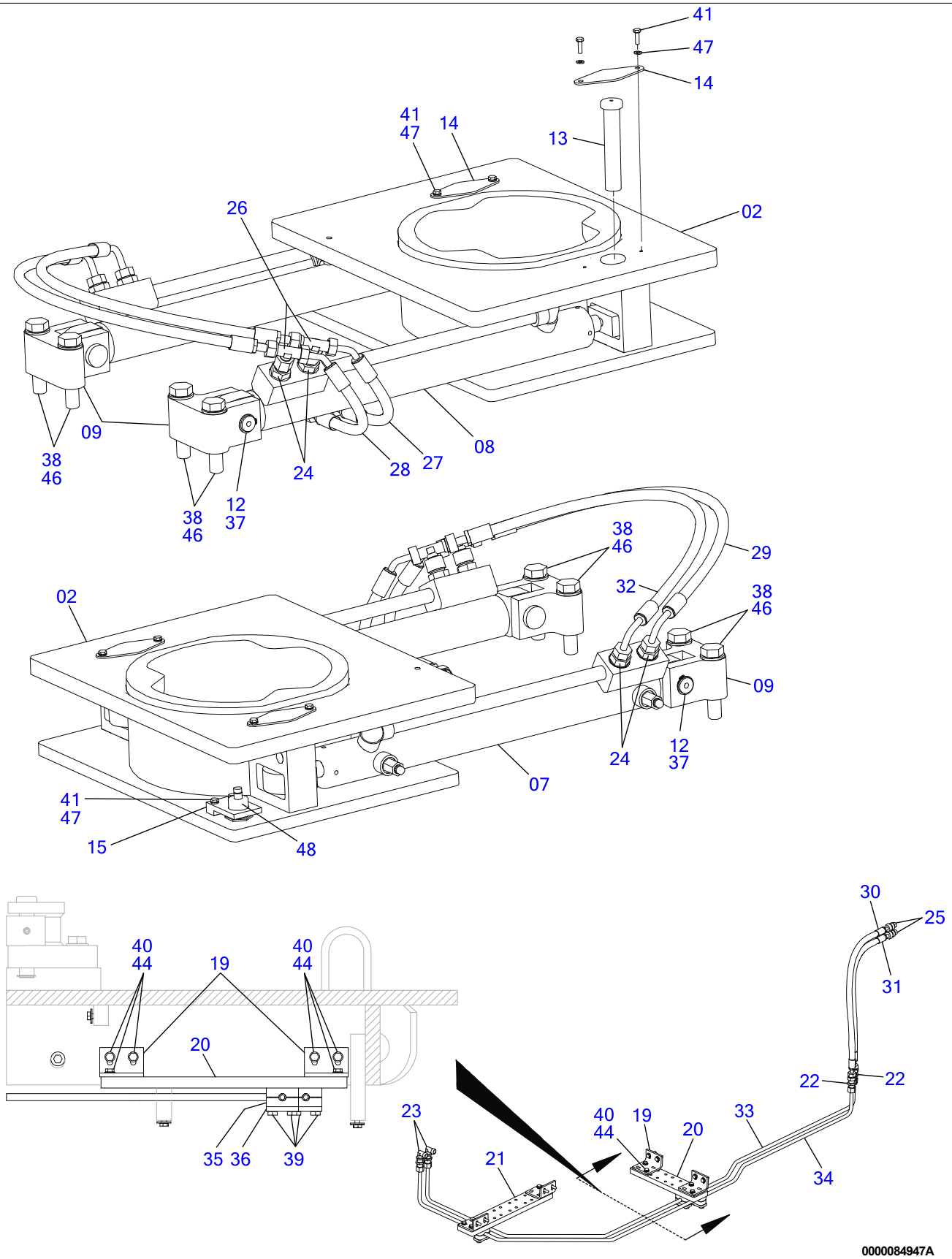


VALVE HOSE INSTALL DETAIL

MECHANICAL INSTALLATION, BIT CAROUSEL

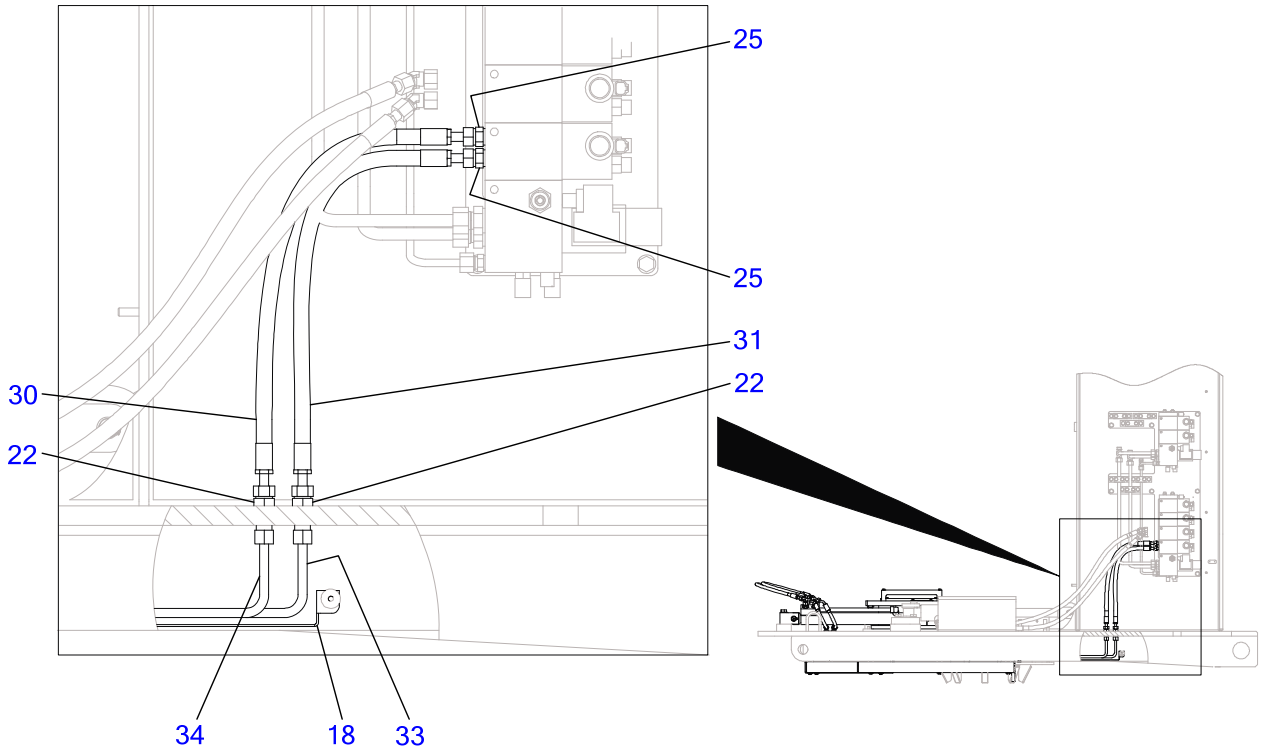
Item	Part No.	Description	Qty.
	R89903F1	MECHANICAL INSTALLATION, BIT CAROUSEL	
01	R89792D2	· CONNECTOR	2
02	R89792D5	· CONNECTOR	4
03	R89777D5	· CONNECTOR	2
04	R89778D5	· CONNECTOR	2
05	R89775D2	· CONNECTOR	8
06	R89775D1	· CONNECTOR	4
07	R89794D2	· ELBOW, 45 Degree	4
08	R89794D1	· ELBOW, 45 Degree	6
09	R89908T06M20D95	· HOSE ASSEMBLY	1
10	R89908T06M20D95	· HOSE ASSEMBLY	1
11	R89909T06M20D54	· HOSE ASSEMBLY	1
12	R89909T06M20D60	· HOSE ASSEMBLY	1
13	R89907T06M18D79	· HOSE ASSEMBLY	1
14	R89907T06M18D79	· HOSE ASSEMBLY	1
15	R89793D1	· ELBOW	2
16	R89907T06M18D115	· HOSE ASSEMBLY	1
17	R89907T06M20D81	· HOSE ASSEMBLY	1
18	R89907T06M20D86	· HOSE ASSEMBLY	1
19	R89907T06M20D125	· HOSE ASSEMBLY	1
20	R89907T06M20D121	· HOSE ASSEMBLY	1
21	R89907T06M18D119	· HOSE ASSEMBLY	1
22	R89916D3	· TUBE ASSEMBLY, Bit Carousel	1
23	R89916D2	· TUBE ASSEMBLY, Bit Carousel	1
24	R89916D1	· TUBE ASSEMBLY, Bit Carousel	1
25	R89916D6	· TUBE ASSEMBLY, Bit Carousel	1
26	R89916D5	· TUBE ASSEMBLY, Bit Carousel	1
27	R89916D4	· TUBE ASSEMBLY, Bit Carousel	1
28	0825M10055	· BOLT, Hex Hd	24
29	44Z2566D1	· CLAMP PLATE, Single	12
30	44Z2569D5	· BODY, Clamp	8
31	44Z2569D3	· BODY, Clamp	4

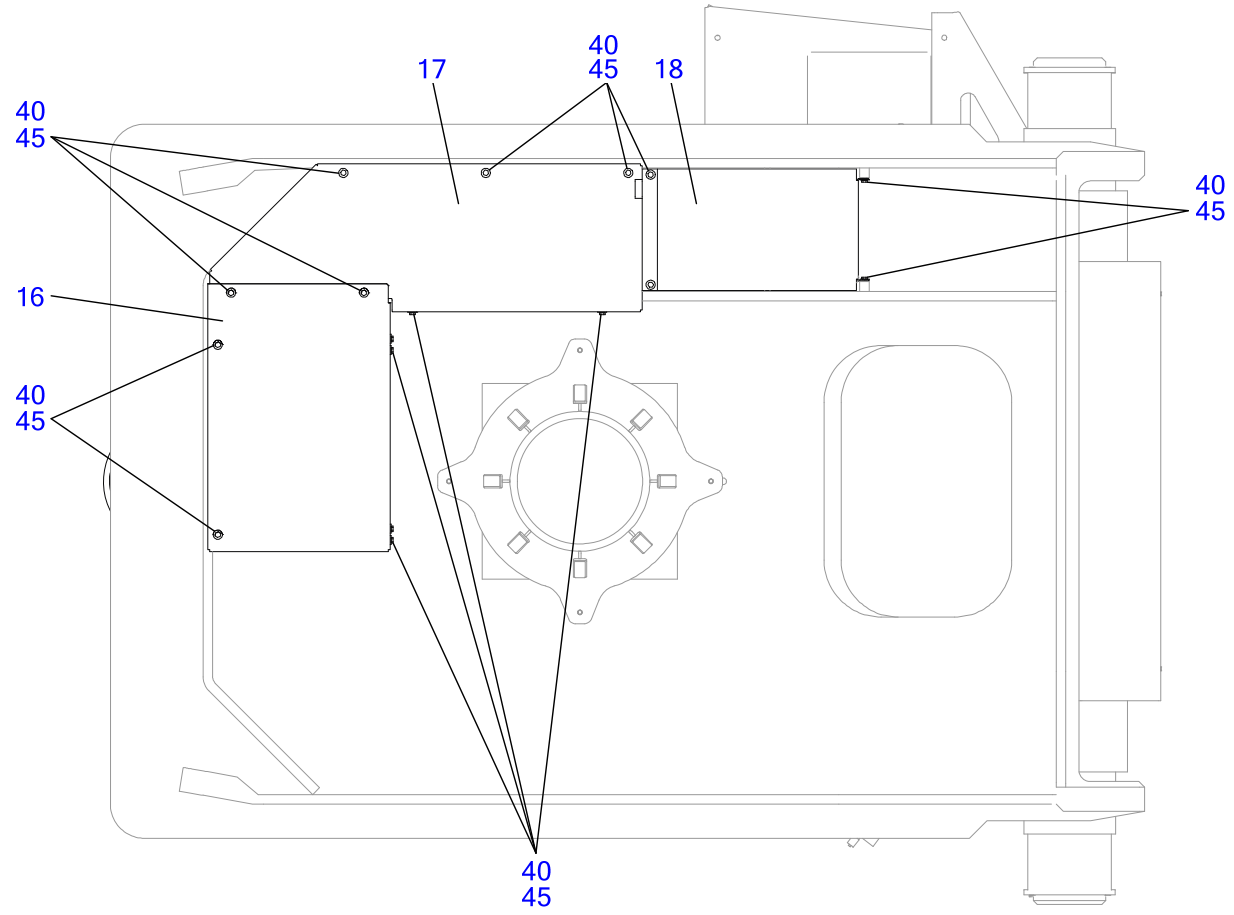
INSTALLATION, BIT BASKET, 251 MM (9.88 IN) BIT



INSTALLATION, BIT BASKET, 251 MM (9.88 IN) BIT

INSTALLATION, BIT BASKET, 251 MM (9.88 IN) BIT





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INSTALLATION, BIT BASKET, 251 MM (9.88 IN) BIT

KOMATSU

INSTALLATION, BIT BASKET, 251 MM (9.88 IN) BIT

Item	Part No.	Description	Qty.	Page
	R106164F2	INSTALLATION, BIT BASKET, 251MM (9.88 IN) BIT		
01		NOT USED		
02	R106161D2	· BIT BASKET, 251mm Bit	1	
03 - 06		NOT USED		
07	R105926D1	· CYLINDER, Bit Basket - Left Side	1	374
08	R105926D2	· CYLINDER, Bit Basket - Right Side	1	375
09	R105927D1	· CYLINDER MOUNT	2	
10 - 11		NOT USED		
12	R98820D5	· PIN	2	
13	R106290D1	· PIN, Bit Basket	2	
14	R106715D1	· PLATE, Cover	2	
15	R105972D1	· BRACKET, Proximity Switch	1	
16	R105363D1	· COVER, Bit Handling Tube	1	
17	R105364D1	· COVER, Bit Handling Tube	1	
18	R105365D1	· COVER, Bit Handling Tube	1	
19	R89930D1	· BRACKET, Clamp	4	
20	R89929D1	· BASE, Clamp	1	
21	R89931D1	· BASE, Clamp	1	
22	R89775D2	· CONNECTOR, Union	2	
23	R89776D2	· CONNECTOR, Union	2	
24	R89778D5	· CONNECTOR	4	
25	R89792D5	· CONNECTOR	2	
26	R89796D2	· CONNECTOR	2	
27	R89908T06M20D33	· HOSE ASSEMBLY	1	
28	R89908T06M20D32	· HOSE ASSEMBLY	1	
29	R89909T06M20D66	· HOSE ASSEMBLY	1	
30	R89907T06M20D65	· HOSE ASSEMBLY	1	
31	R89907T06M20D60	· HOSE ASSEMBLY	1	
32	R89909T06M20D69	· HOSE ASSEMBLY	1	
33	R89915D2	· TUBE ASSEMBLY, Bit Basket	1	
34	R89915D1	· TUBE ASSEMBLY, Bit Basket	1	
35	44Z2569D5	· BODY, Clamp	4	
36	44Z2566D1	· PLATE, Single Clamp	4	
37	R89724D25	· SNAP RING	2	
38	0825M20100	· BOLT, Hex Hd	4	
39	0825M10055	· BOLT, Hex Hd	8	
40	0825M08025	· BOLT, Hex Hd	33	
41	0825M06020	· BOLT, Hex Hd	6	
42	0825M10020	· BOLT, Hex Hd (Not Shown)	1	
44	3648M008	· WASHER, Hardened	16	

INSTALLATION, BIT BASKET, 251 MM (9.88 IN) BIT

Item	Part No.	Description	Qty.	Page
45	R89928D6	• WASHER, Oversized	17	
46	3612M020	• WASHER, Plain	4	
47	3612M006	• WASHER, Plain	6	
48	R90575D1	• SWITCH, Proximity	1	
49	R88247D1	• MOUNT, Single (Not Shown)	1	

CYLINDER, BIT BASKET - LEFT SIDE

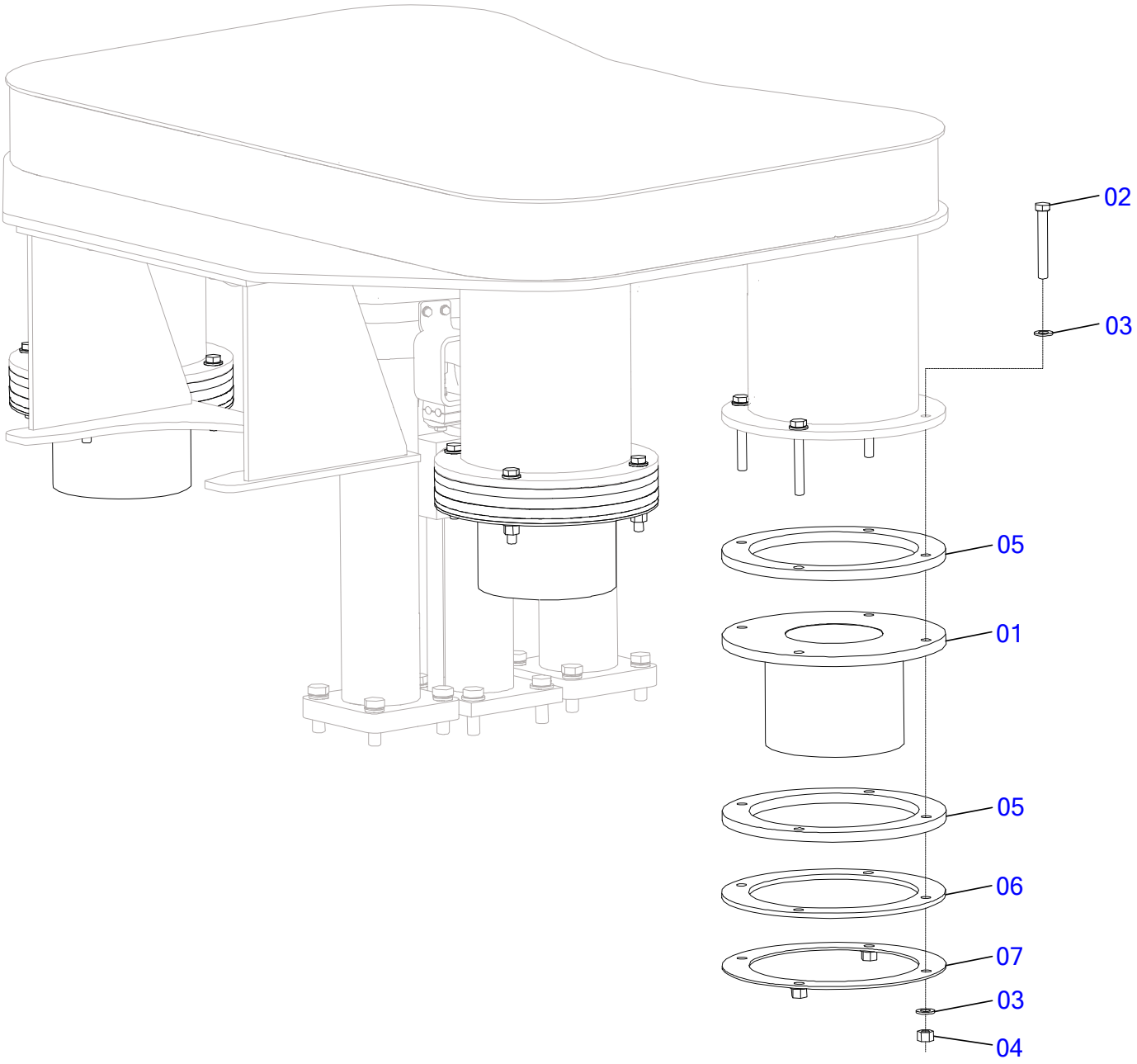
Item	Part No.	Description	Qty.
	R105926D1	CYLINDER, BIT BASKET - LEFT SIDE	
01	R9005443D1	▪ HEAD, Gland	1
02	R9005462D1	▪ ROD	1
03	R9005463D1	▪ PISTON	1
04	R9005464D1	▪ SEAL KIT	1
05	R9005465D1	▪ HARDWARE KIT	1
06	R90577D1	▪ SWITCH, Proximity	1

KOMATSU

CYLINDER, BIT BASKET - RIGHT SIDE

Item	Part No.	Description	Qty.
	R105926D2	CYLINDER, BIT BASKET - RIGHT SIDE	
01	R9005466D1	▪ ROD	1
02	R9005465D1	▪ HARDWARE KIT	1
03	R9005464D1	▪ SEAL KIT	1
04	R9005463D1	▪ PISTON	1
05	R9005443D1	▪ HEAD, Gland	1

INSTALLATION, THREADED BIT ADAPTER



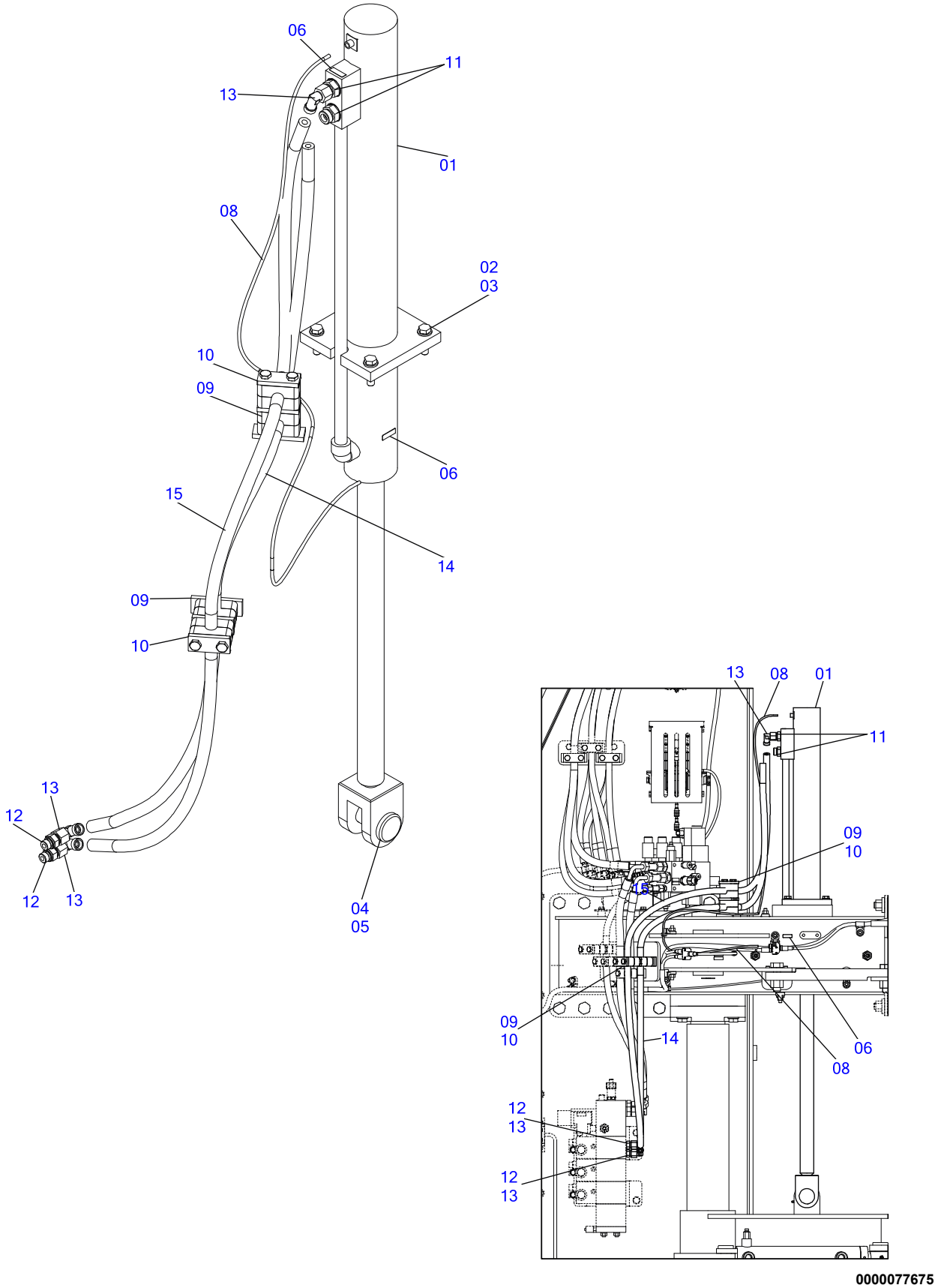
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ADAPTER INSTALLATION, THREADED BIT

INSTALLATION, THREADED BIT ADAPTER

Item	Part No.	Description	Qty.
	R99304F1	INSTALLATION, THREADED BIT ADAPTER	
01	R91069D1	▪ ADAPTER, Threaded Bit, 6.63 API	4
02	0825M12090	▪ BOLT, Hex Hd	16
03	3648M012	▪ WASHER, Hardened	32
04	2104M012	▪ NUT, Hex	16
05	R9004398D1	▪ SHIM, Bit Carousel - 12.7mm	8
06	R9004398D2	▪ SHIM, Bit Carousel - 6.35mm	4
07	R9004398D3	▪ SHIM, Bit Carousel - 3.21mm	4

INSTALLATION, BREAKOUT RAISE CYLINDER

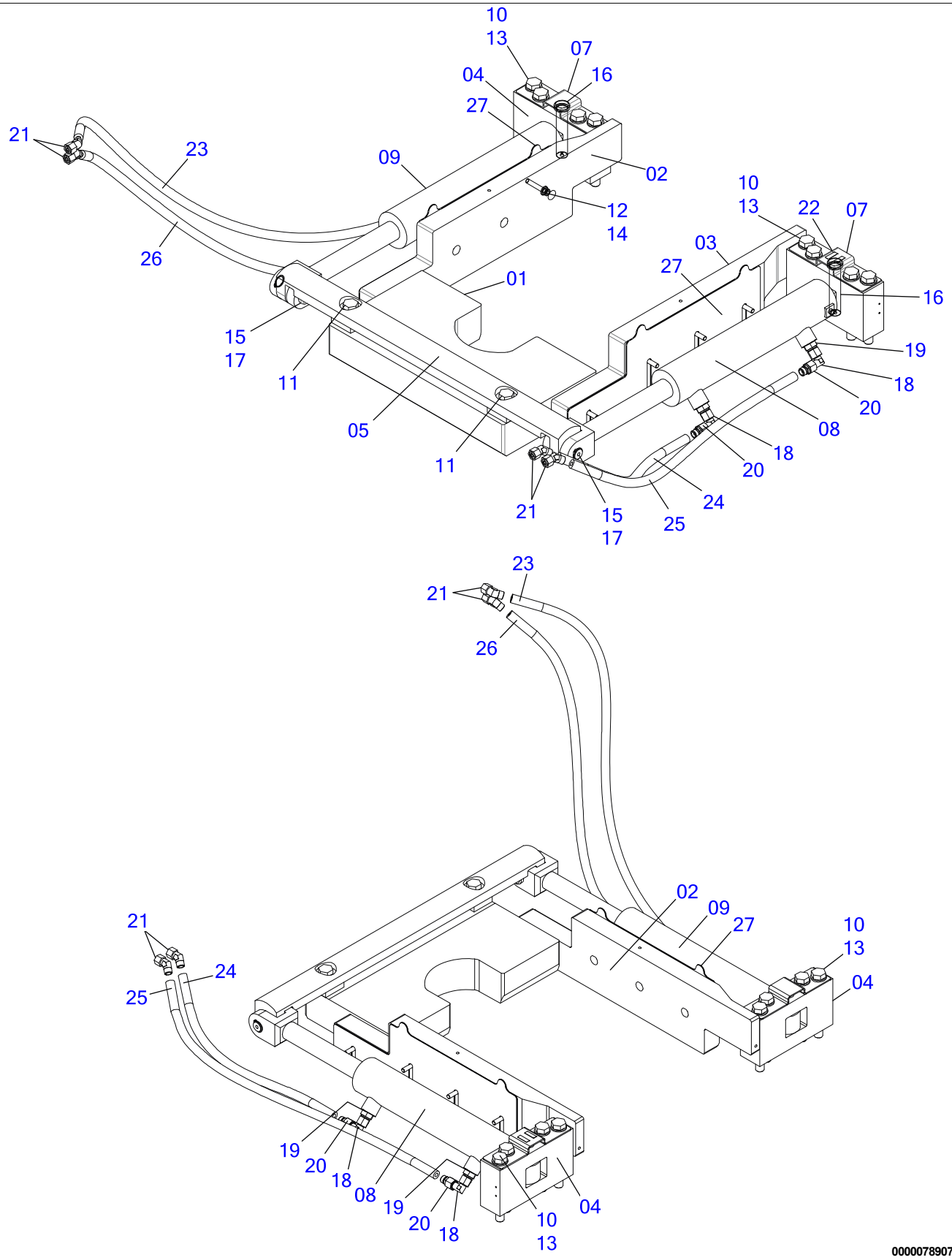


INSTALLATION, CYLINDER BREAKOUT RAISE

INSTALLATION, BREAKOUT RAISE CYLINDER

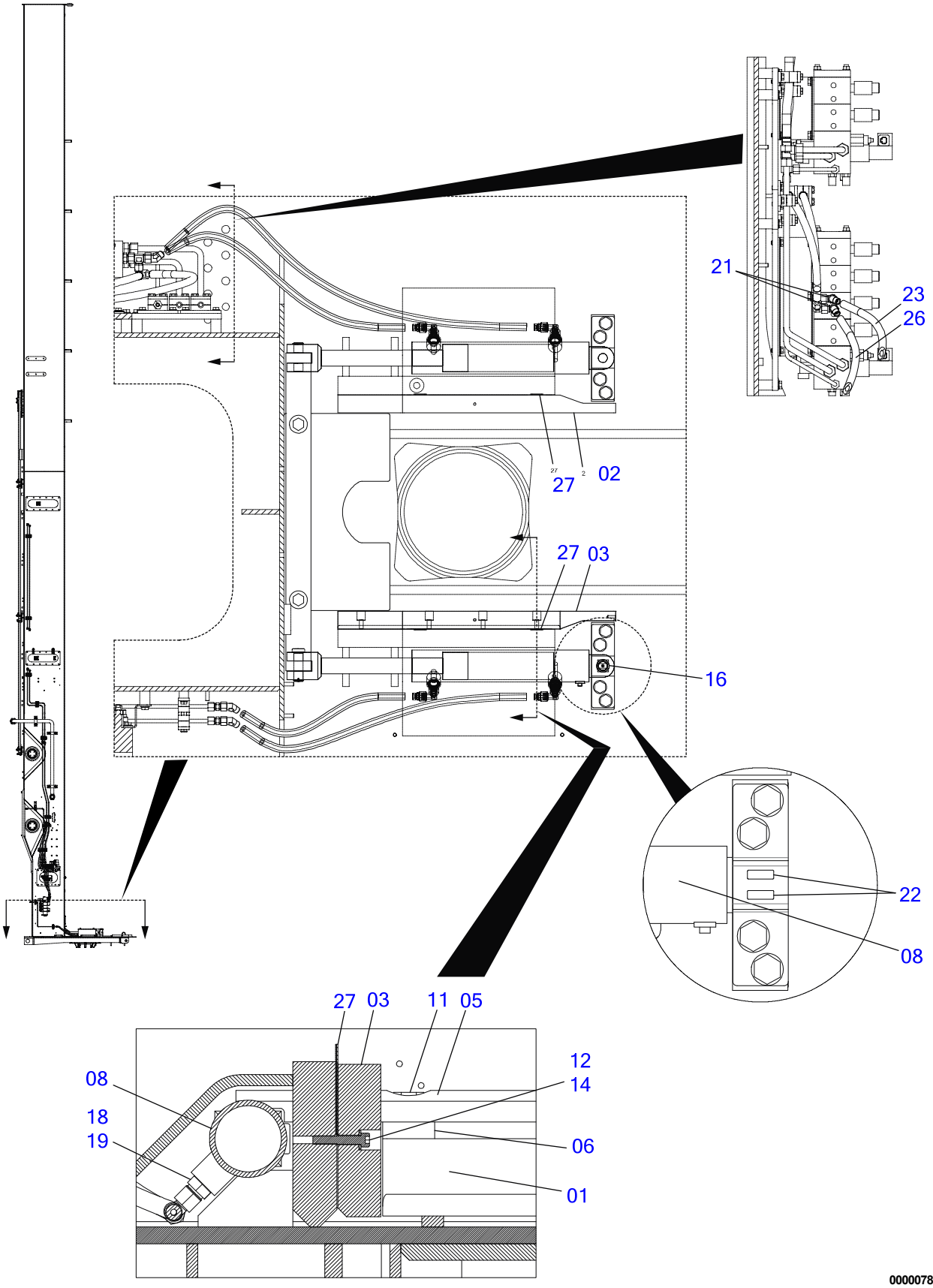
Item	Part No.	Description	Qty.	Page
	R98889F1	INSTALLATION, BREAKOUT RAISE CYLINDER		
01	R90384D1	• TRANSDUCER, Pipe Breakout Wrench Raise/Lower Linear Position	1	
02	0825M12045	• BOLT, Hex Hd	4	
03	3648M012	• WASHER, Hardened	4	
04	R98820D12	• PIN	1	
05	R89724D35	• SNAP RING	1	
06	R91716D1	• DECALS	1	
07		NOT USED		
08	R90651T10D200	• CABLE	1	
09	R78949D15	• CLAMP	2	341
10	R78953D15	• CLAMP	2	
11	R89778D5	• CONNECTOR	2	
12	R89792D5	• CONNECTOR	2	
13	R89793D2	• CONNECTOR	3	
14	R89782T06M20D176	• HOSE ASSEMBLY	1	
15	R89780T06M20D188	• HOSE ASSEMBLY	1	

SLIDE WRENCH INSTALLATION



SLIDE WRENCH INSTALLATION

SLIDE WRENCH INSTALLATION

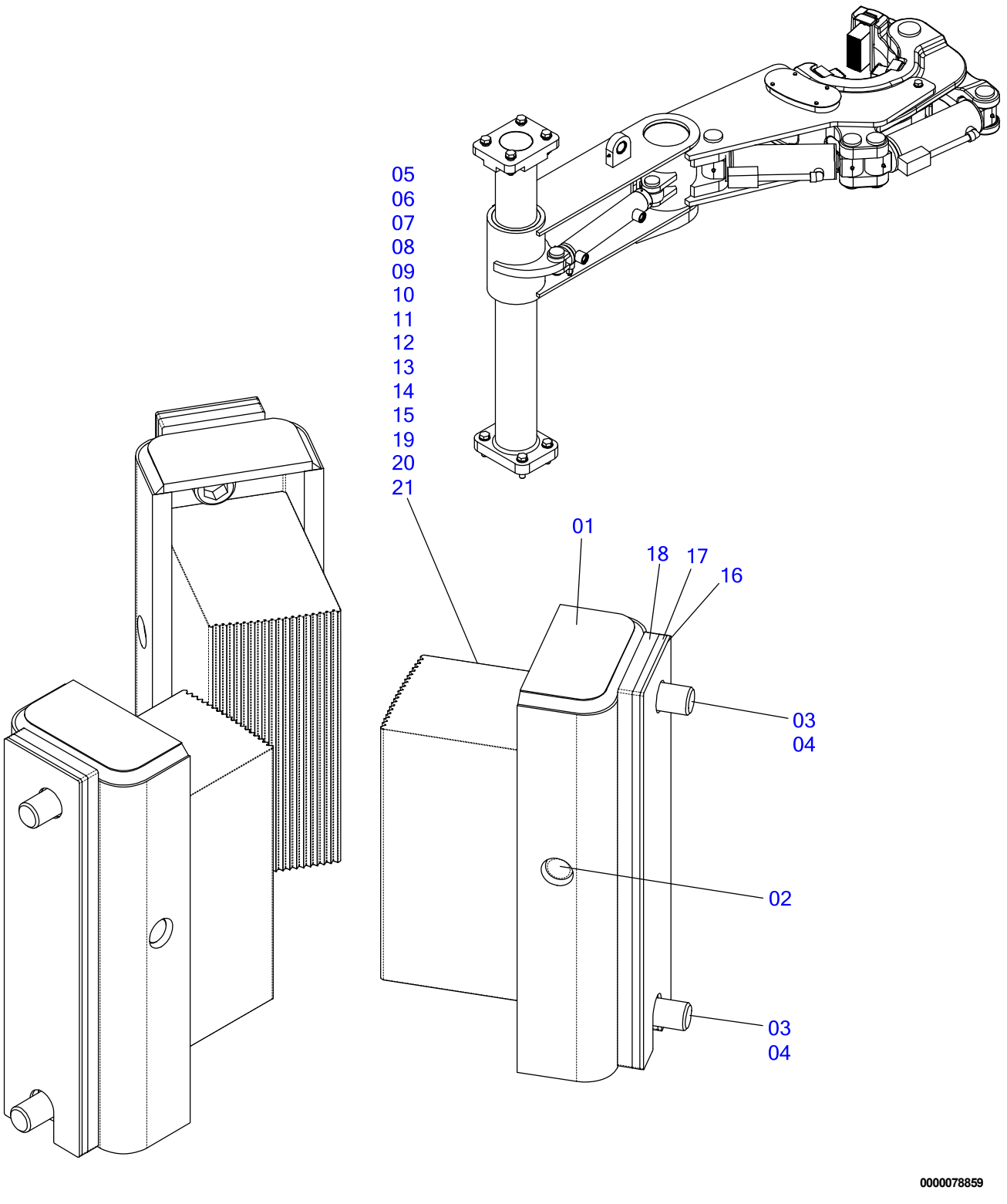


SLIDE WRENCH INSTALLATION CONT.

SLIDE WRENCH INSTALLATION

Item	Part No.	Description	Qty.
	R119935F6	SLIDE WRENCH INSTALLATION	
01	R90031D6	• SLIDE WRENCH, 7.63 In OD Pipe	1
02	R119934D1	• WEAR PLATE, RH	1
03	R119934D2	• WEAR PLATE, LH	1
04	R105986D1	• MOUNT, Cylinder	2
05	R89967D1	• DRAW BAR, Pivotable	1
06	R89968D1	• SPACER, 0.75 In	2
07	R105987D1	• RETAINER, Pin	2
08	R90387D1	• CYLINDER, w/LVDT	1
09	R90387D2	• CYLINDER	1
10	0825M20170	• BOLT, Hex Hd	8
11	0825M20070	• BOLT, Hex Hd	2
12	3648M010	• WASHER, Hardened	8
13	3648M020	• WASHER, Hardened	8
14	0630M10055	• SCREW, Socket Head	8
15	R98820D5	• PIN	2
16	R98820D10	• PIN	2
17	R89724D25	• RING, Snap, External	2
18	R89793D2	• CONNECTOR	4
19	R89778D5	• CONNECTOR	4
20	R89862D1	• CONNECTOR, Union	4
21	R89794D1	• CONNECTOR, Union	4
22	R91718D1	• DECALS, Pipe Slide Wrench	1
23	R89780T06M18D134	• HOSE ASSEMBLY	1
24	R89780T06M18D59	• HOSE ASSEMBLY	1
25	R89780T06M18D92	• HOSE ASSEMBLY	1
26	R89780T06M18D96	• HOSE ASSEMBLY	1
27	R90032D1	• SHIM, Wear Plate	10

INSTALLATION, DIE ASSEMBLY



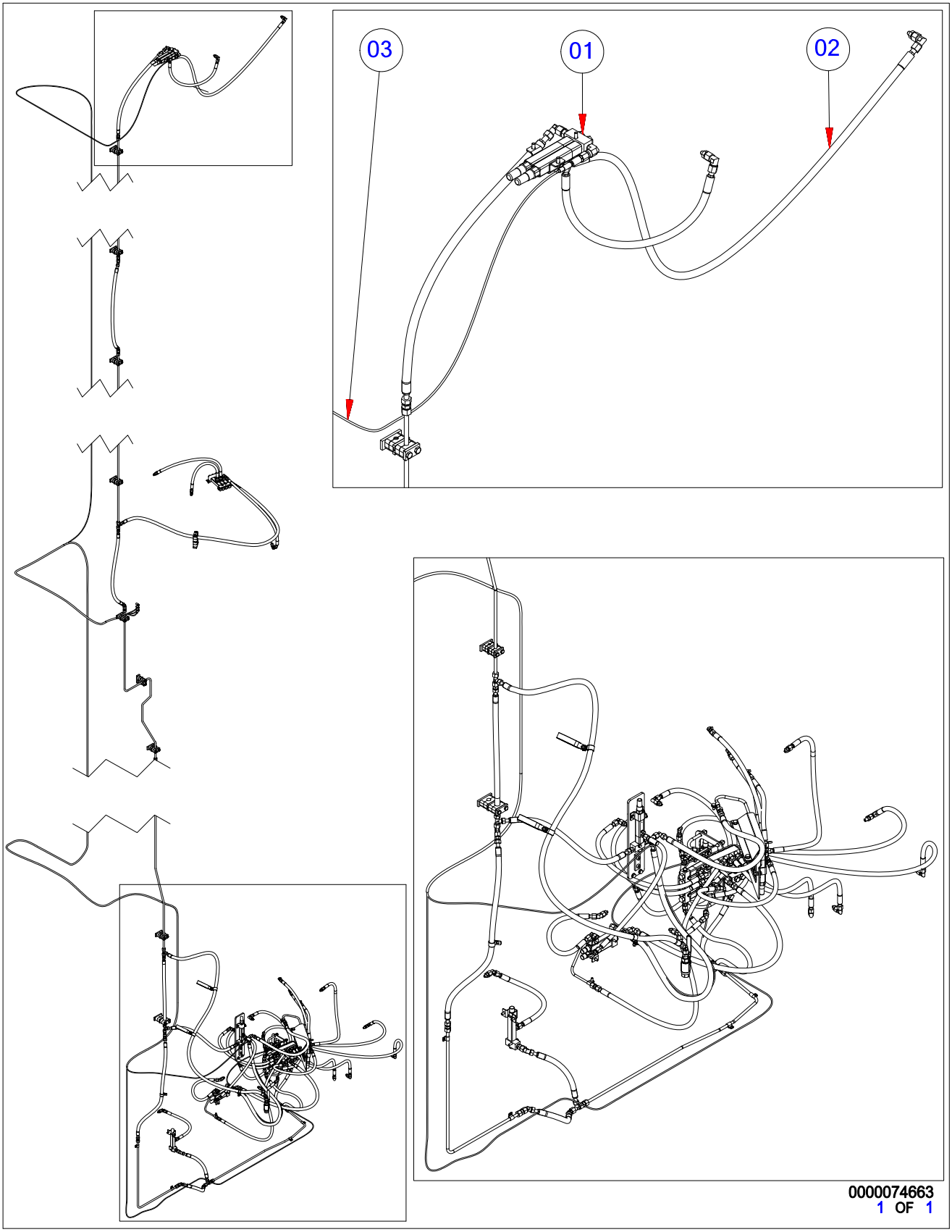
INSTALLATION, DIE ASSEMBLY

KOMATSU

INSTALLATION, DIE ASSEMBLY

Item	Part No.	Description	Qty.
	R98888F4	INSTALLATION, DIE ASSEMBLY	
01	R98743D1	· HOLDER, Die	3
02	R98745D1	· PIN	3
03	18Z3087D5	· WASHER, Conical Lock	6
04	0630M12035	· SCREW, Socket Head	6
05		NOT USED	
06		NOT USED	
07		NOT USED	
08	R98744D4	· DIE, 7.63/7.50 In Pipe	3
09		NOT USED	
10		NOT USED	
11		NOT USED	
12		NOT USED	
13		NOT USED	
14		NOT USED	
15		NOT USED	
16	R99113D1	· SHIM	3
17	R99113D2	· SHIM	3
18	R99113D3	· SHIM	3

AUTO LUBE, MAST



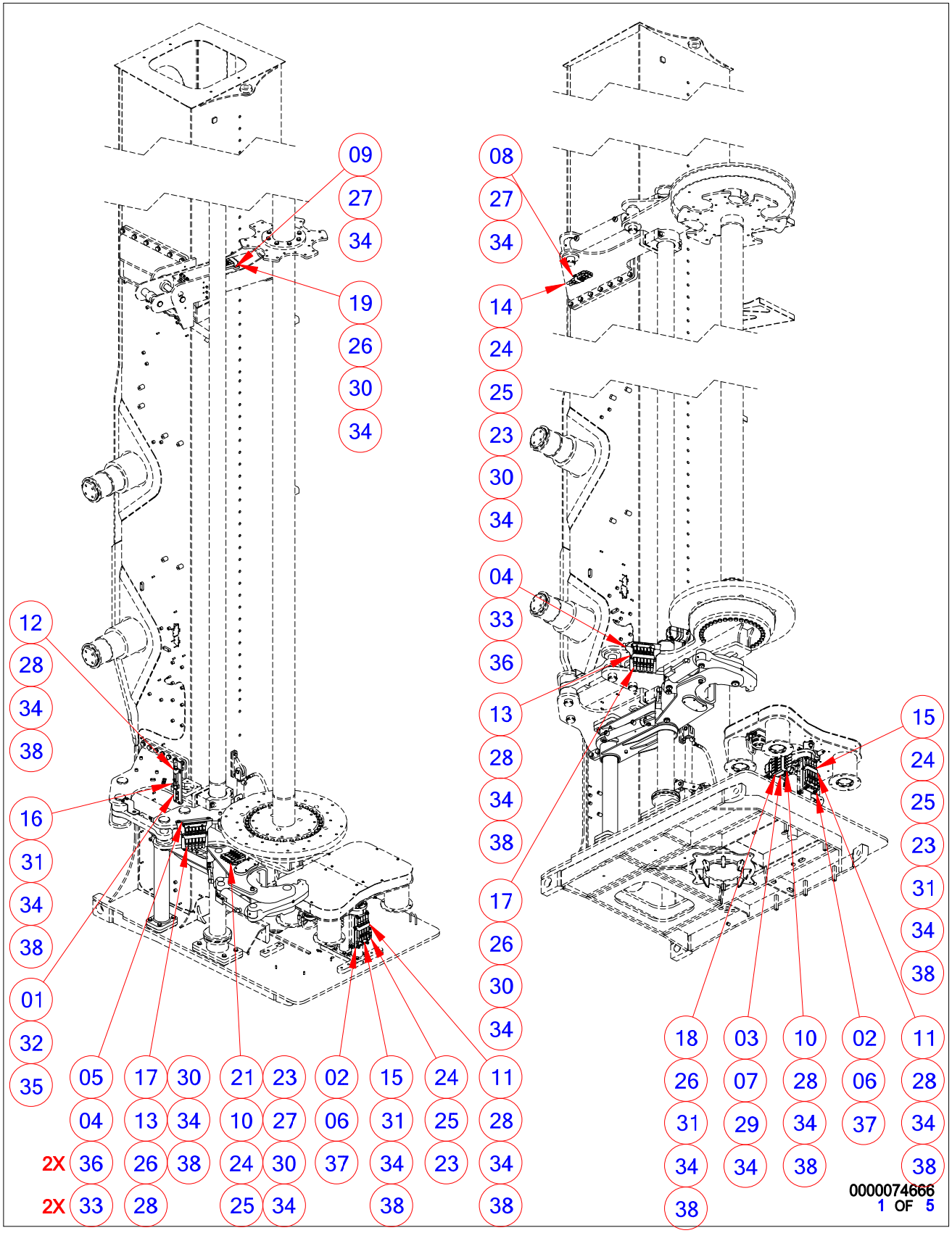
GROUP LEVEL,AUTO LUBE,MAST

AUTO LUBE, MAST

Item	Part No.	Description	Qty.	Page
	R107188F1	AUTO LUBE, MAST		
01	R106149F1	▪ MAST, Auto Lube System	1	381
02	R106149F3	▪ HOSES, Auto Lube System	1	390
03	R89725F34	▪ CABLE, Auto Lube System	1	

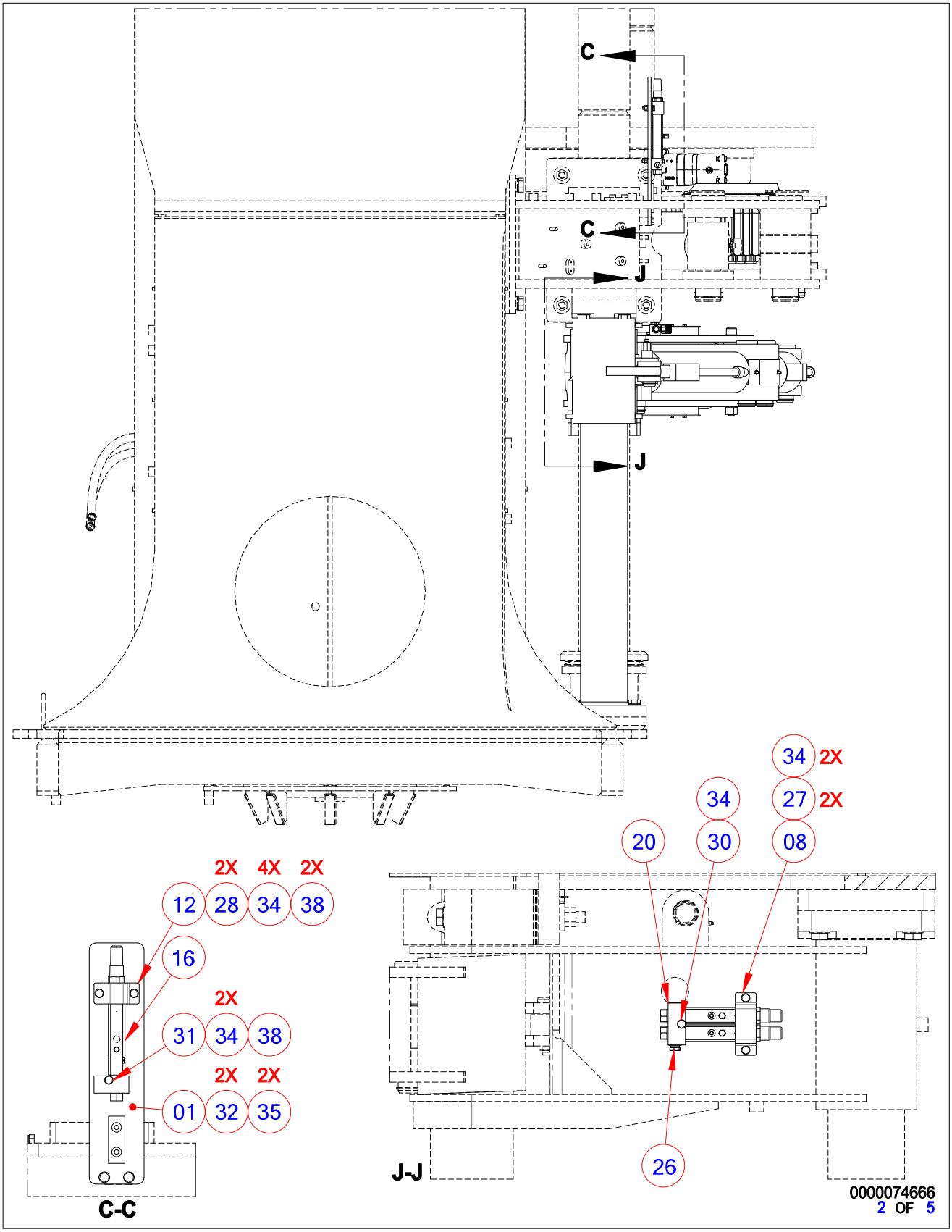
KOMATSU

MAST, AUTO LUBE SYSTEM



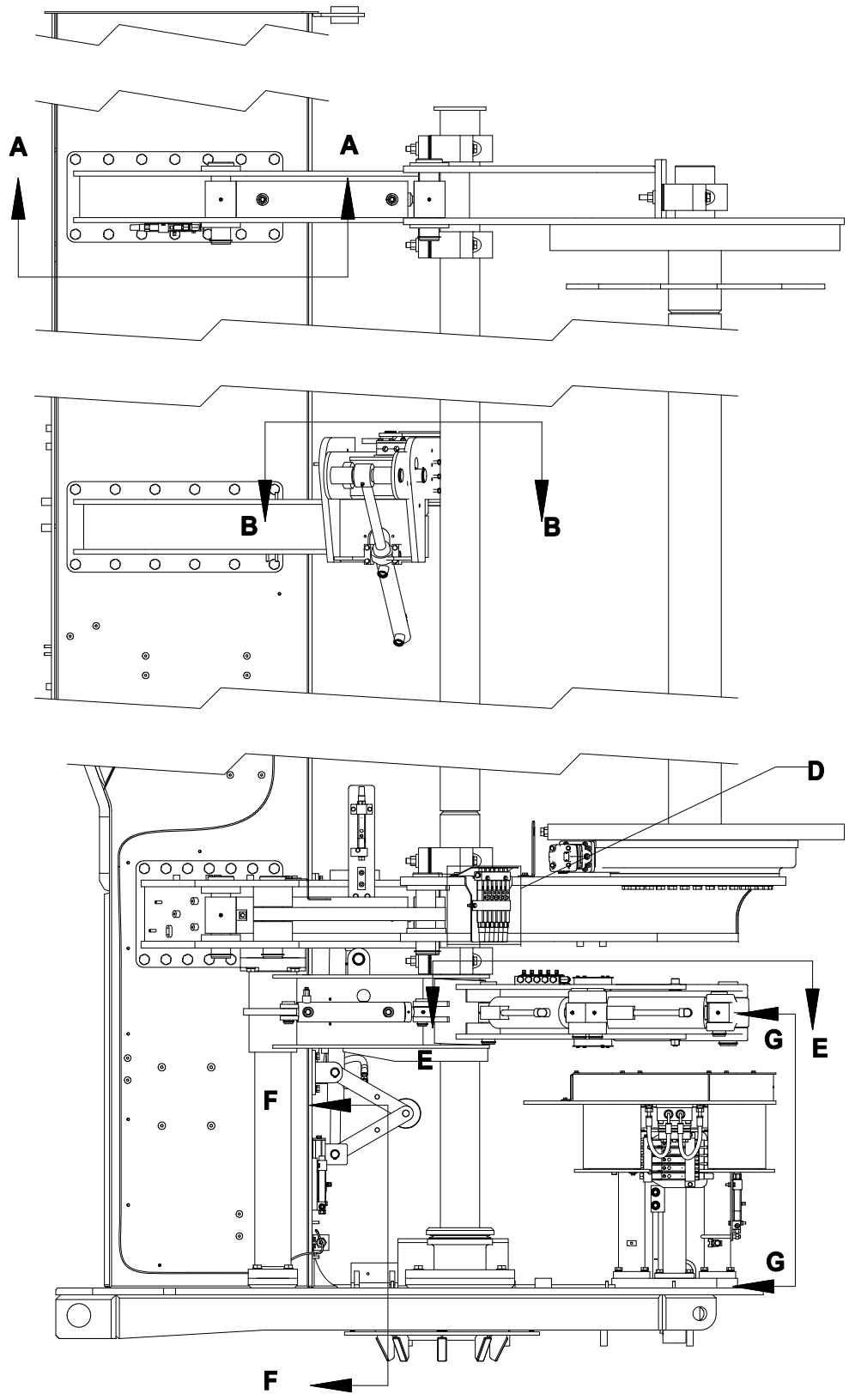
INSTALL,MAST,AUTO LUBE SYSTEM

MAST, AUTO LUBE SYSTEM



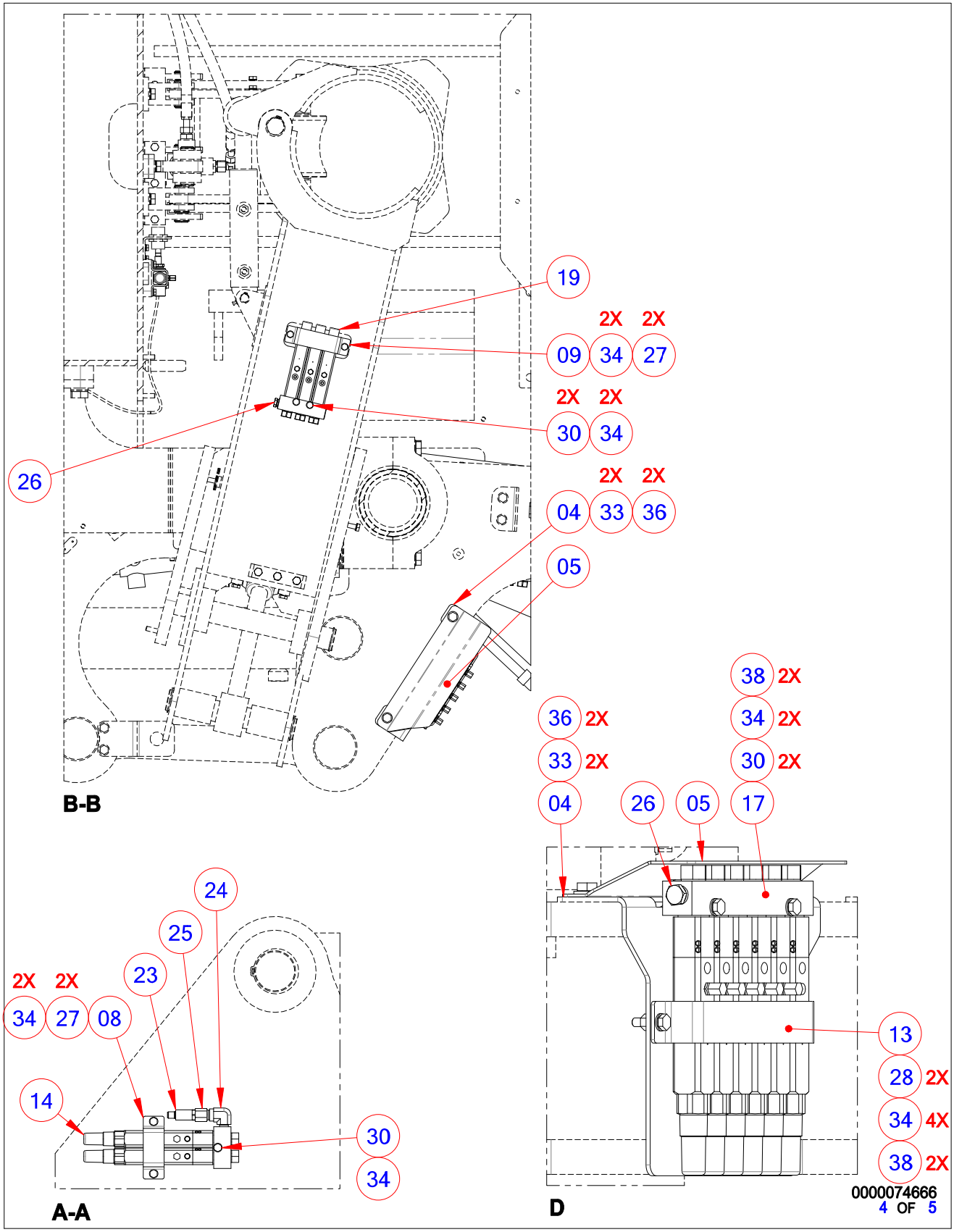
INSTALL,MAST,AUTO LUBE SYSTEM

MAST, AUTO LUBE SYSTEM



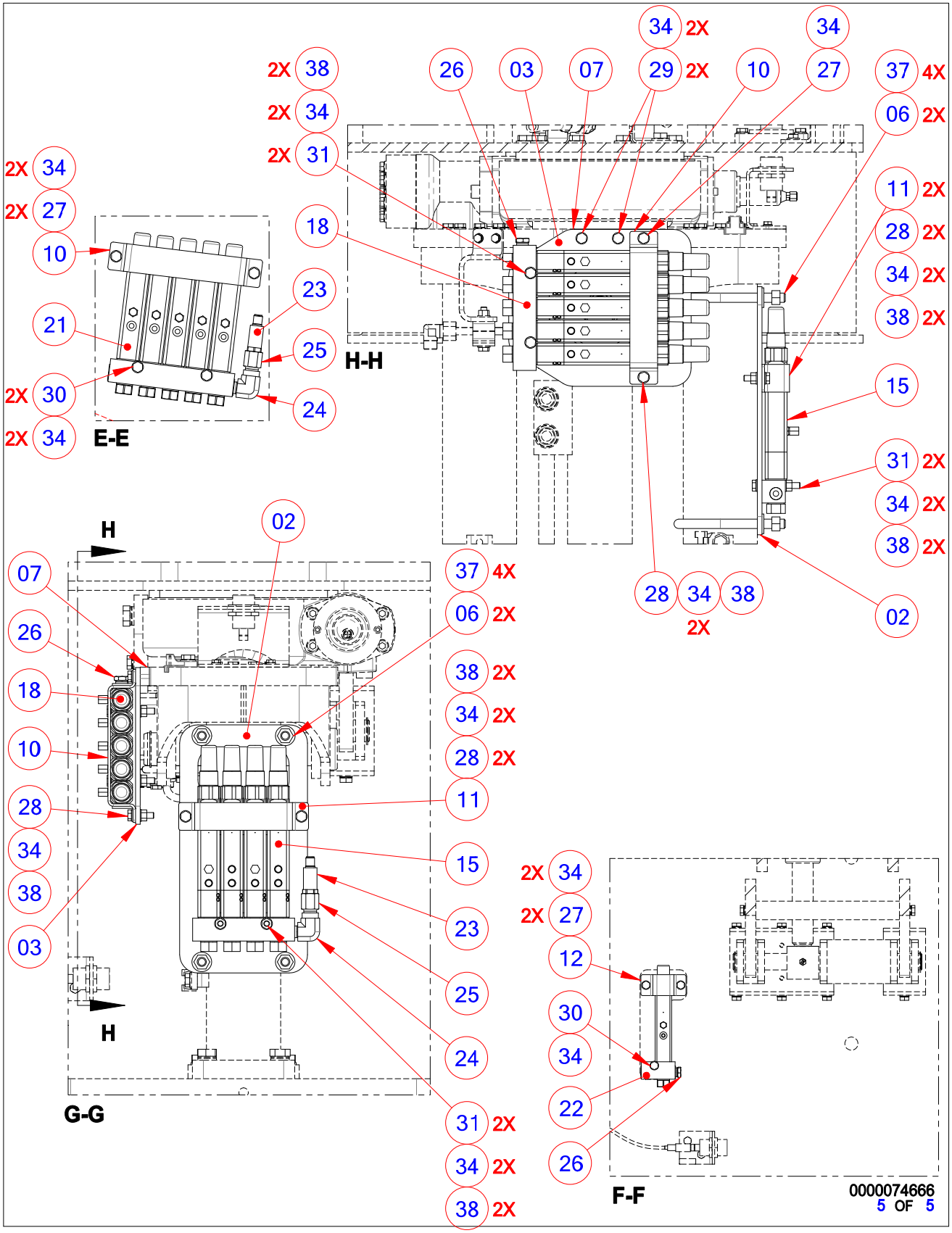
INSTALL,MAST,AUTO LUBE SYSTEM

MAST, AUTO LUBE SYSTEM



INSTALL,MAST,AUTO LUBE SYSTEM

MAST, AUTO LUBE SYSTEM

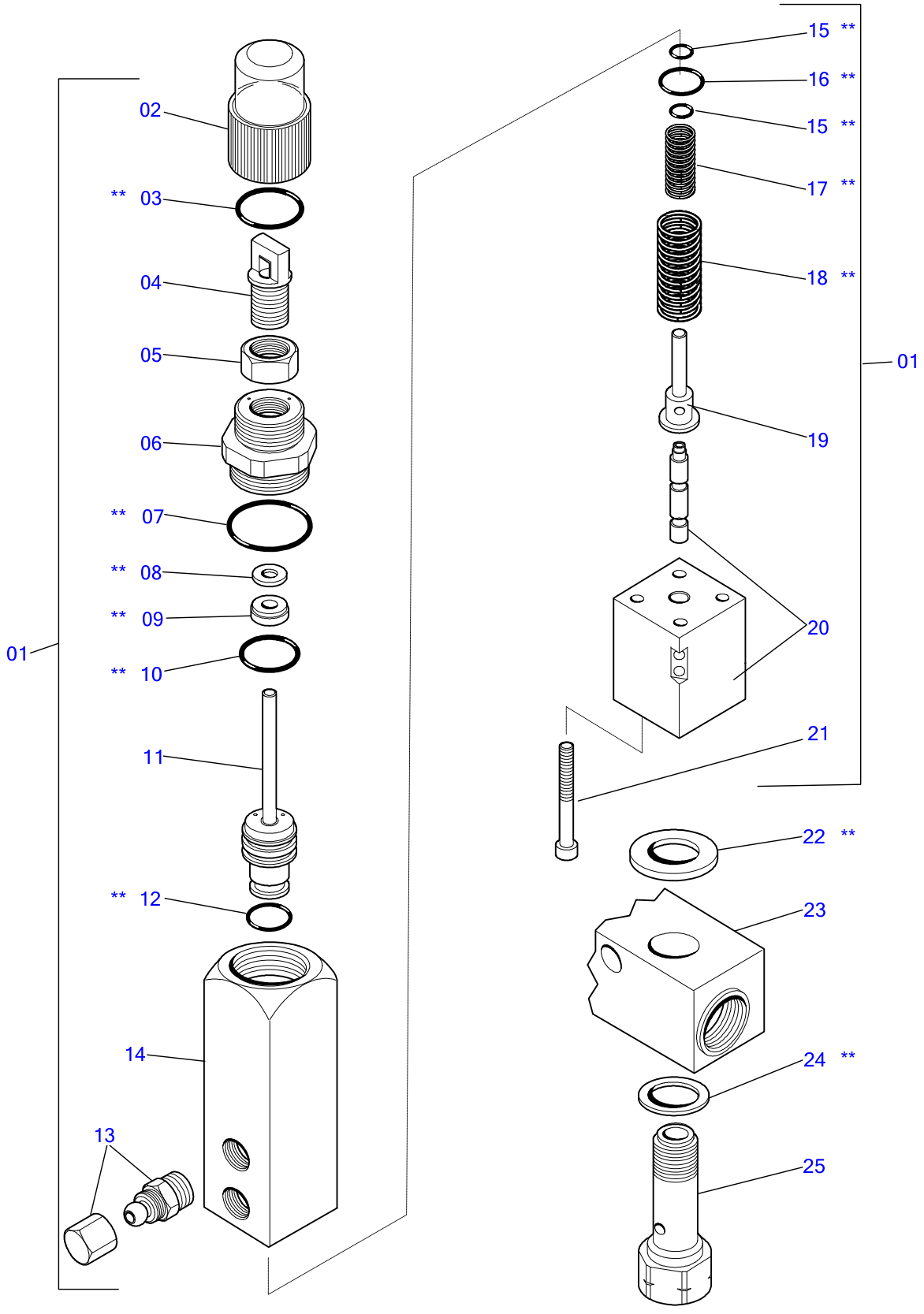


INSTALL,MAST,AUTO LUBE SYSTEM

MAST, AUTO LUBE SYSTEM

Item	Part No.	Description	Qty.	Page
	R106149F1	MAST, AUTO LUBE SYSTEM		
01	R106190D1	· CLAMP/INJ MOUNT, Pipe Carousel	1	
02	R106207D1	· MOUNT, Injector Bank - Bit Carousel	1	
03	R106332D1	· MOUNT, Injector Bank - Bit Carousel	1	
04	R106202D1	· MOUNT, Injector Bank - Bit Carousel	1	
05	R106202D2	· GUARD, Injector Bank - Pipe Carousel	1	
06	R106759D1	· U-BOLT	2	
07	R106789D1	· SPACER, Injector Bank Mount - Bit Carousel	1	
08	R64791D2	· STRAP, Injector Bank	2	
09	R64791D3	· STRAP, Injector Bank	1	
10	R64791D5	· STRAP, Injector Bank	2	
11	R64791D4	· STRAP, Injector Bank	1	
12	R64791D1	· STRAP, Injector Bank	2	
13	R64791D6	· STRAP, Injector Bank	1	
14	R59113D2	· INJECTOR, 2 Valve, Lubrication	1	382
15	R59113D4	· INJECTOR, 4 Valve, Lubrication	1	383
16	R59113D1	· INJECTOR, Lubrication	1	384
17	R59113D6	· INJECTOR, 6 Valve, Lubrication	1	385
18	R59113D5	· INJECTOR, 5 Valve, Lubrication	1	386
19	R59518D3	· INJECTOR, 3 Valve, Lubrication	1	387
20	R59518D2	· INJECTOR, Lubrication,	1	388
21	R59518D5	· INJECTOR, Grease	1	
22	R59518D1	· INJECTOR, Lubrication	1	389
23	R106984T220D100	· SWITCH	3	
24	44Z341D3	· ELBOW, Street	3	
25	R73761D4	· ADAPTER	3	
26	44Z1010D3	· PLUG, Pipe	5	
27	0825M08020	· BOLT, Hex Hd	11	
28	0825M08030	· BOLT, Hex Hd	7	
29	0825M08035	· BOLT, Hex Hd	2	
30	0825M08050	· BOLT, Hex Hd	9	
31	0825M08060	· BOLT, Hex Hd	5	
32	0825M10035	· BOLT, Hex Hd	2	
33	0825M12030	· BOLT, Hex Hd	2	
34	3612M008	· WASHER, Flat	48	
35	3612M010	· WASHER, Plain	2	
36	3612M012	· WASHER, Plain	2	
37	3631V009	· WASHER, Flat	4	
38	2104M008	· NUT, Hex	14	

INJECTOR, LUBRICATION



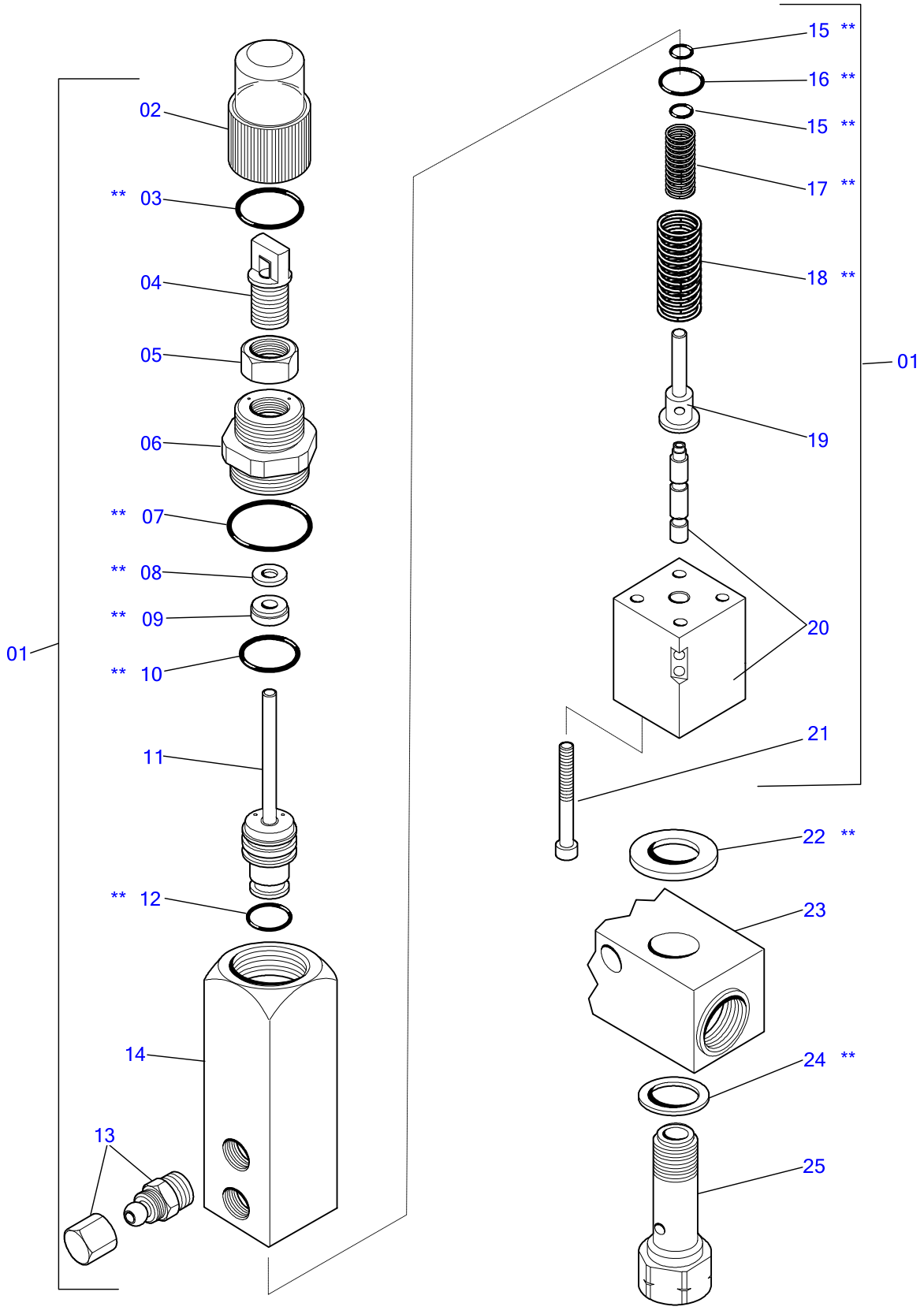
0000077274

INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59113D2	INJECTOR, LUBRICATION	
01	NP1000Z10238	・INJECTOR	2
02	NP1000Z10239	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10240	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10241	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10242	・・PISTON	1
12		・・U-CUP ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10243	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10051	・MANIFOLD, 2 Injector	1
24		・GASKET ** (NSS)	2
25	NP1000Z10056	・BOLT, Adapter	2
**	NP1000Z10057	・REPAIR KIT (Items marked ** are included in REPAIR KIT.)	1

INJECTOR, LUBRICATION

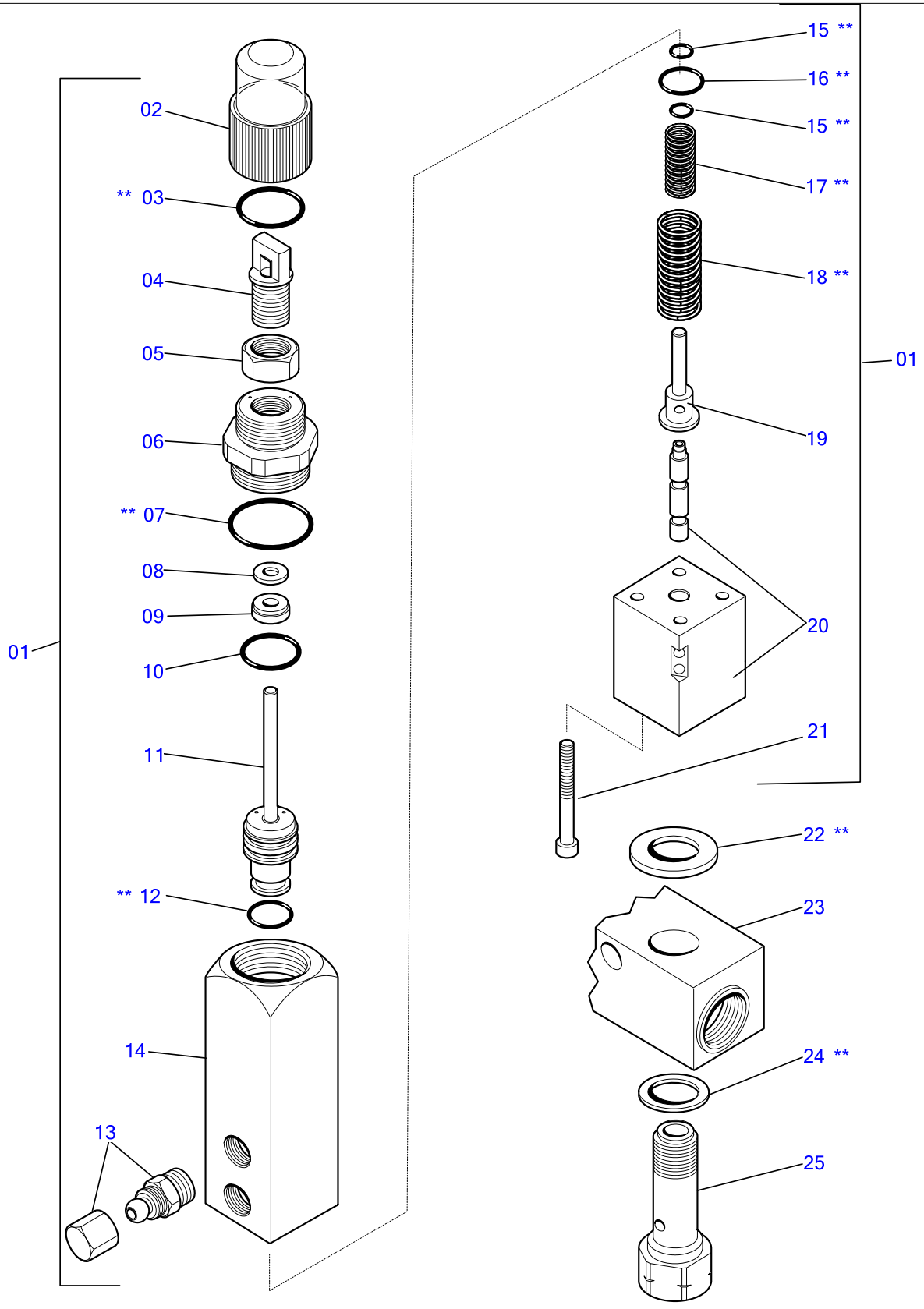


INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59113D4	INJECTOR, LUBRICATION	
01	NP1000Z10238	・INJECTOR	4
02	NP1000Z10239	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10240	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10241	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10242	・・PISTON	1
12		・・U-CUP ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10243	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10053	・MANIFOLD, 4 Injector	1
24		・GASKET ** (NSS)	4
25	NP1000Z10056	・BOLT, Adapter	4
**	NP1000Z10057	・REPAIR KIT (Items marked ** are included in Repair Kit)	1

INJECTOR, LUBRICATION



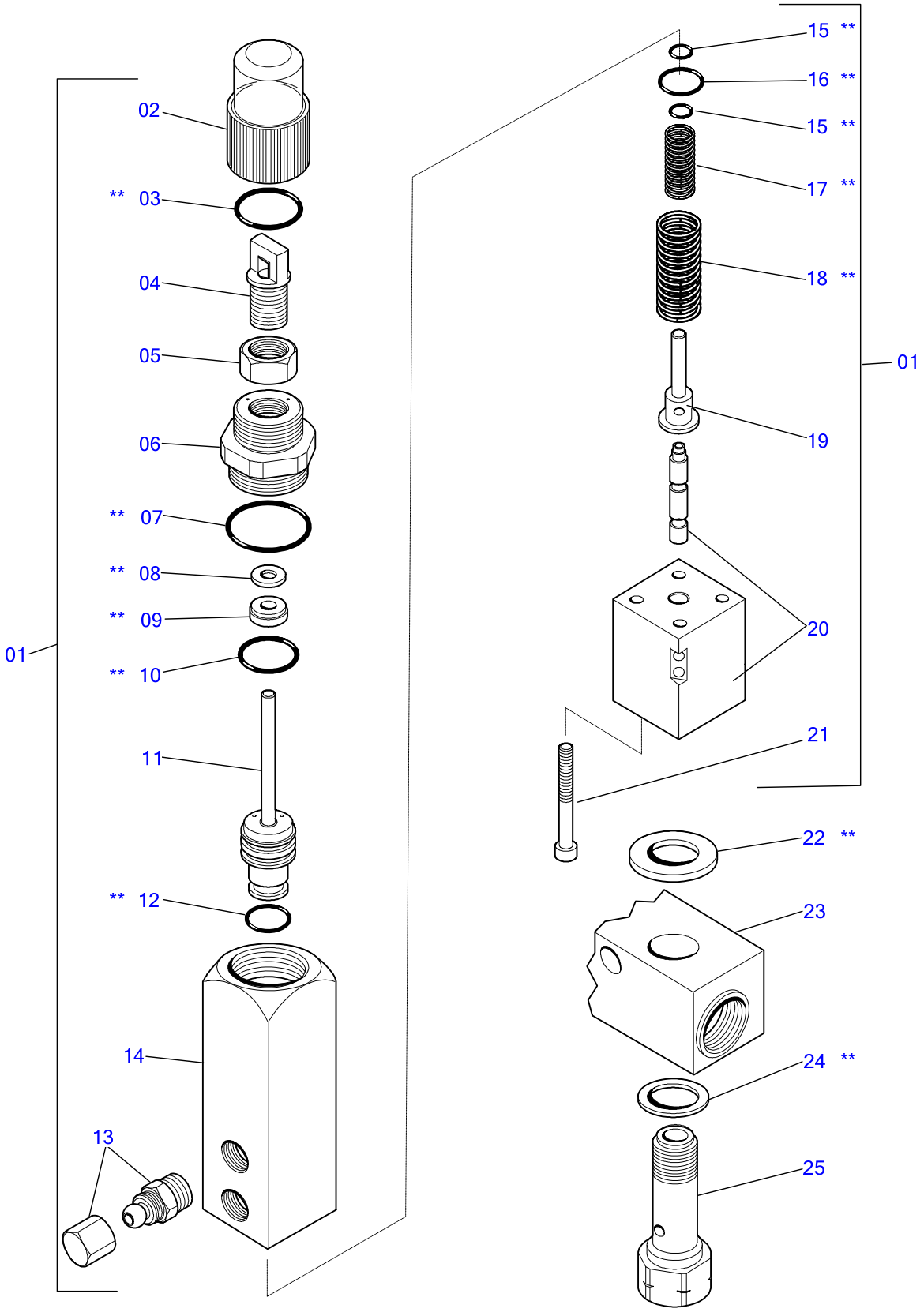
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INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59113D1	INJECTOR, LUBRICATION	
01	NP1000Z10238	・INJECTOR	1
02	NP1000Z10239	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10240	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10241	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup (NSS)	1
09		・・SEAL (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10242	・・PISTON	1
12		・・U-CUP ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10243	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10050	・MANIFOLD, 1 INJECTOR	1
24		・GASKET ** (NSS)	1
25	NP1000Z10056	・BOLT, Adapter	1
**	NP1000Z10057	・REPAIR KIT (Items marked ** are included in REPAIR KIT.)	1

INJECTOR, LUBRICATION

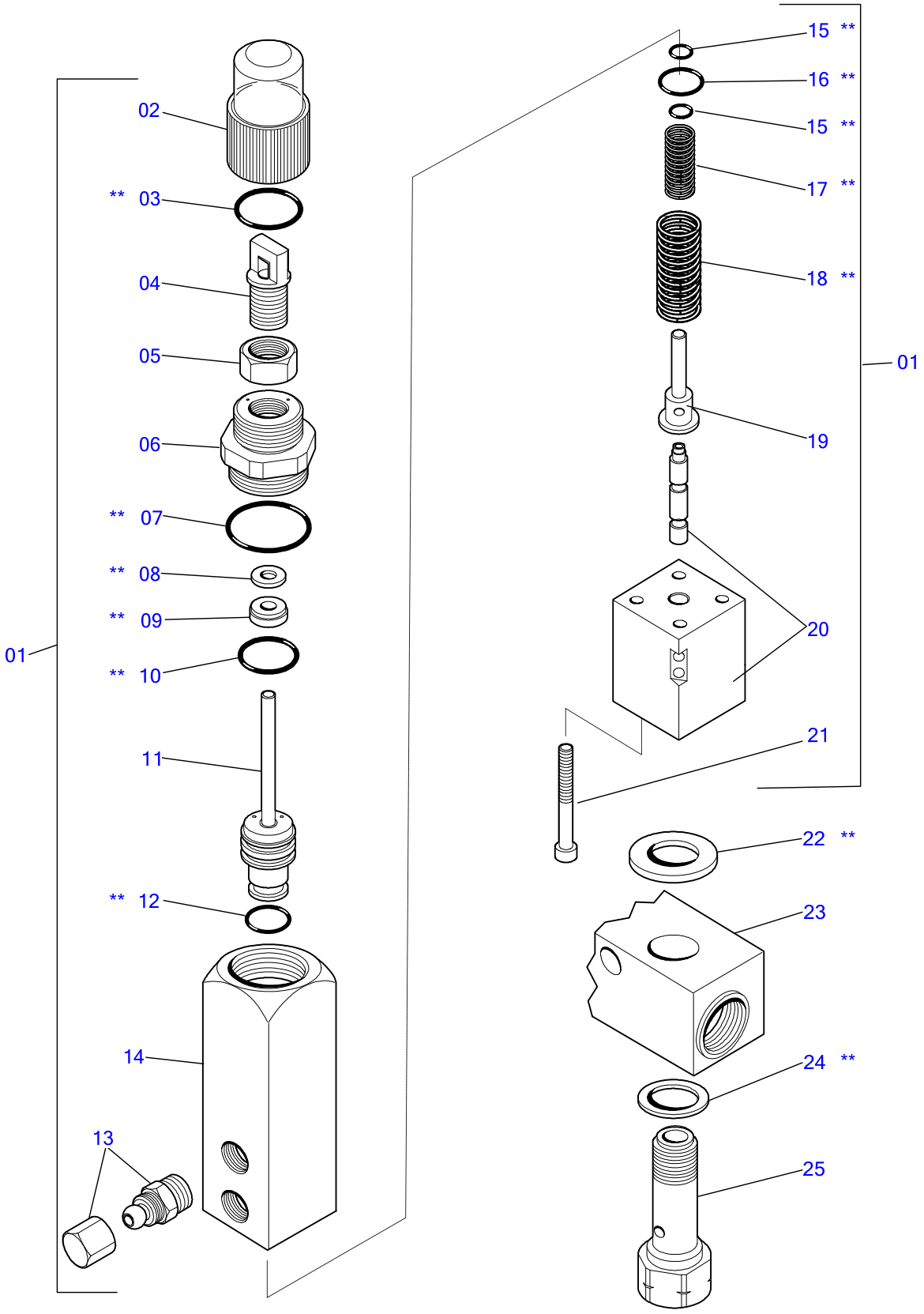


INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59113D6	INJECTOR, LUBRICATION	
01	NP1000Z10238	・INJECTOR	6
02	NP1000Z10239	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10240	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10241	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10242	・・PISTON	1
12		・・U-CUP ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10243	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10055	・MANIFOLD, 6 Injector	1
24		・GASKET ** (NSS)	6
25	NP1000Z10056	・BOLT, Adapter	6
**	NP1000Z10057	・REPAIR KIT (Items marked ** are included in Repair Kit)	1

INJECTOR, LUBRICATION

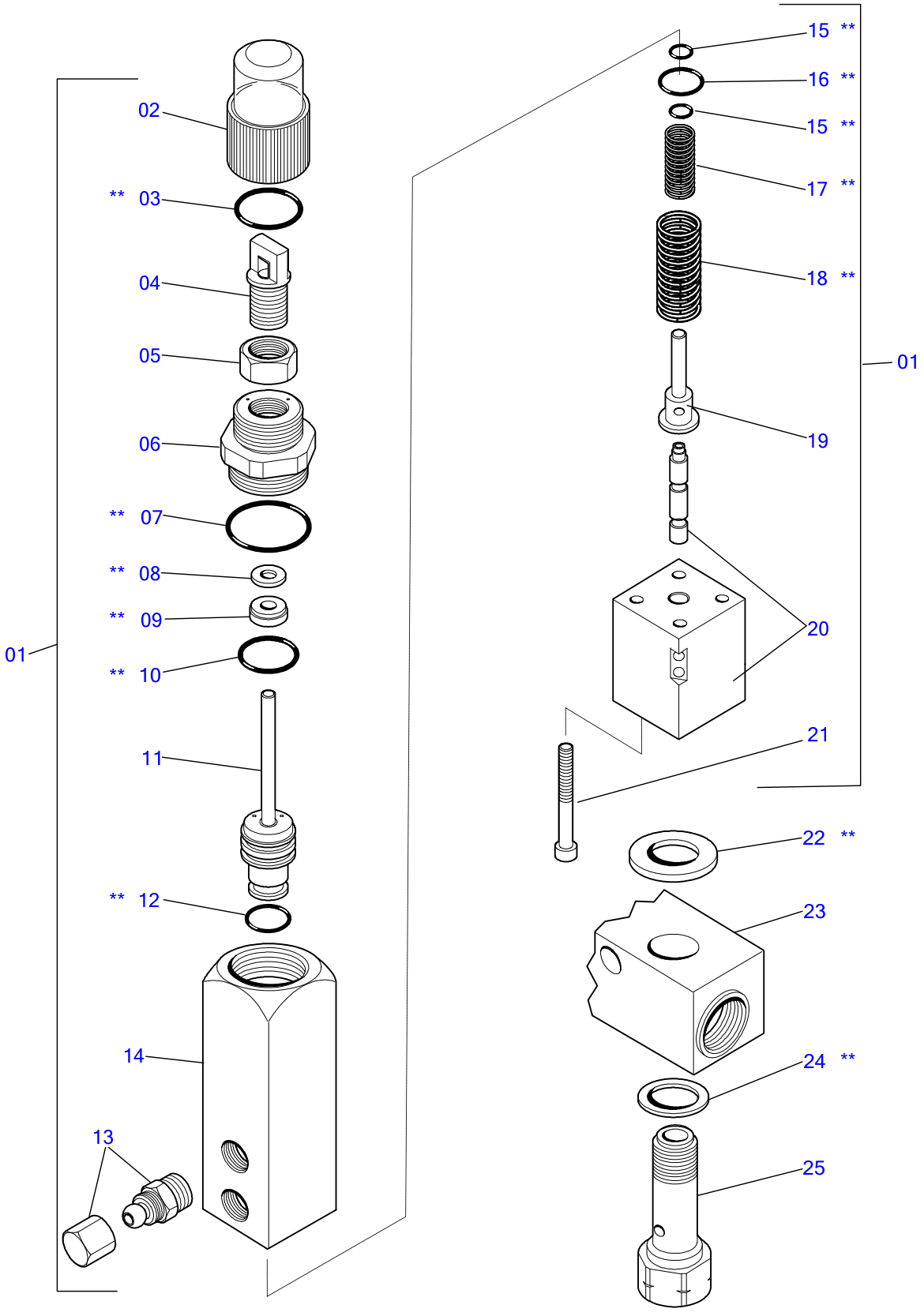


INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59113D5	INJECTOR, LUBRICATION	
01	NP1000Z10238	・INJECTOR	5
02	NP1000Z10239	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10240	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10241	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10242	・・PISTON	1
12		・・U-CUP ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10243	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10054	・MANIFOLD, 5 Injector	1
24		・GASKET ** (NSS)	5
25	NP1000Z10056	・BOLT, Adapter	5
**	NP1000Z10057	・REPAIR KIT (Items marked ** are included in REPAIR KIT.)	1

INJECTOR, LUBRICATION

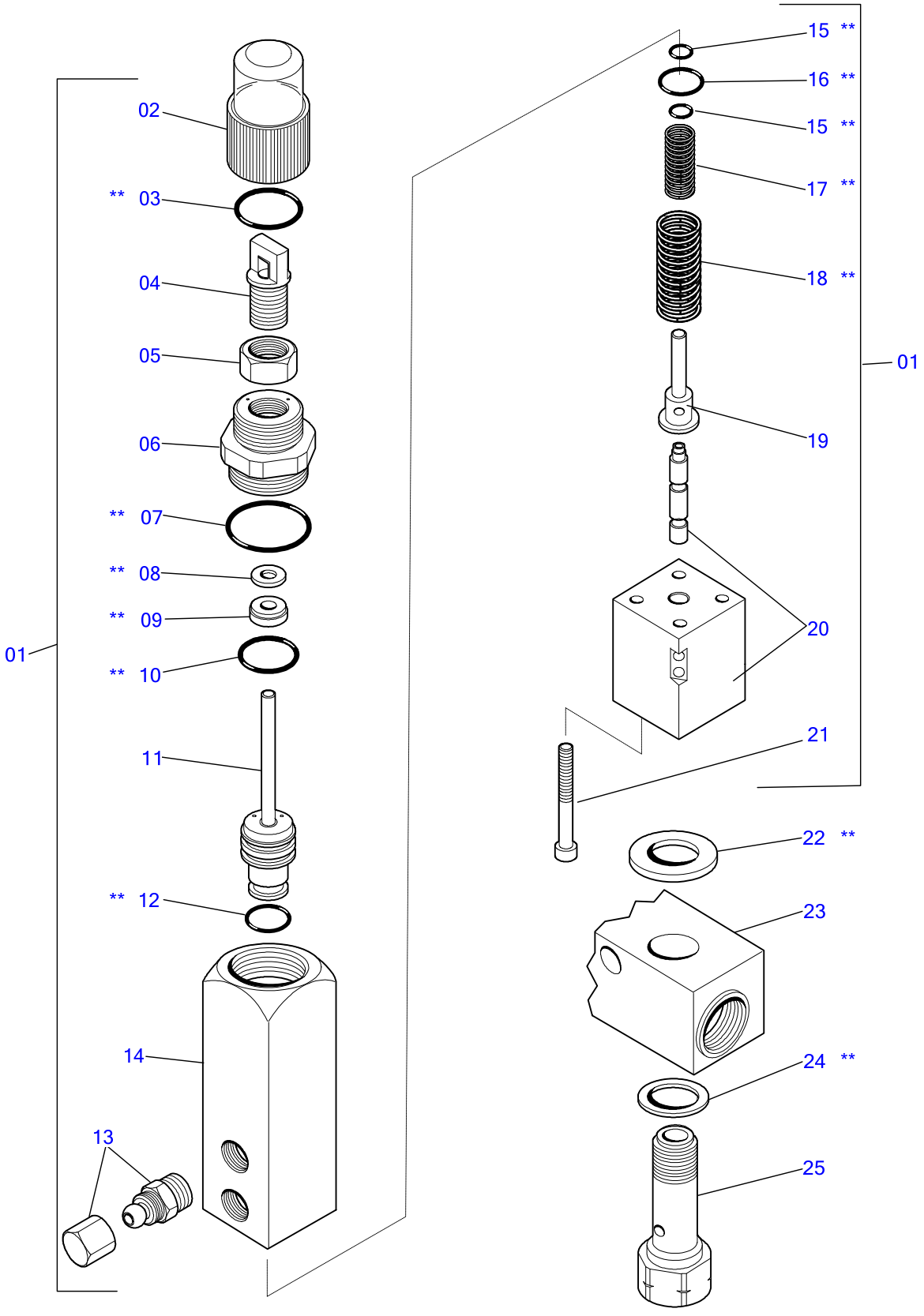


INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59518D3	INJECTOR, LUBRICATION	
01	NP1000Z10039	・INJECTOR	3
02	NP1000Z10040	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10041	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10043	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10044	・・PISTON	1
12		・・O-RING ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10046	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10052	・MANIFOLD, 3 Injector	1
24		・GASKET ** (NSS)	3
25	NP1000Z10056	・BOLT, Adapter	3
**	NP1000Z10057	・REPAIR KIT Items marked ** are part of REPAIR KIT.	1

INJECTOR, LUBRICATION

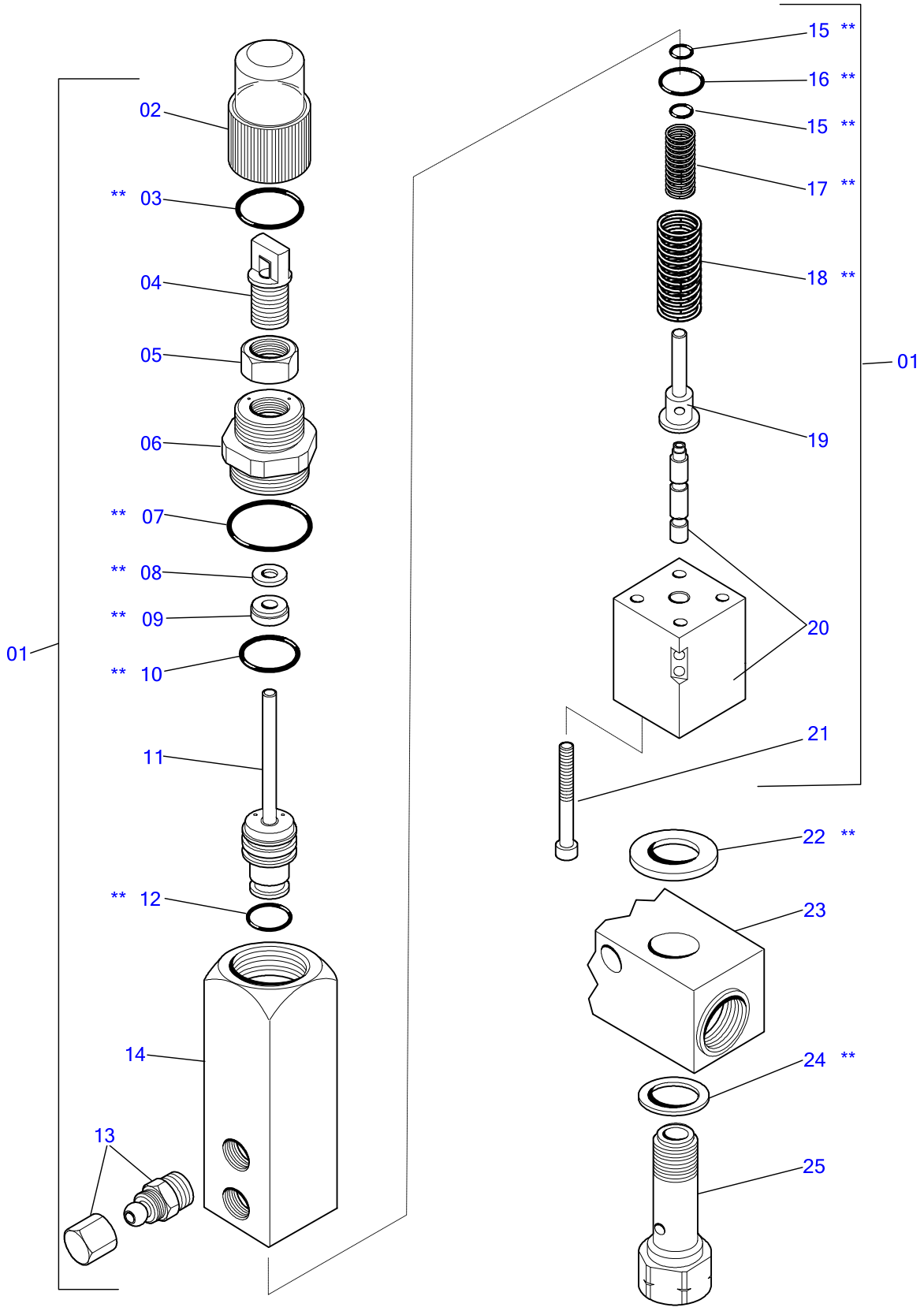


INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

Item	Part No.	Description	Qty.
	R59518D2	INJECTOR, LUBRICATION	
01	NP1000Z10039	・INJECTOR	2
02	NP1000Z10040	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10041	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10043	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10044	・・PISTON	1
12		・・O-RING ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10046	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10051	・MANIFOLD, 2 Injector	1
24		・GASKET ** (NSS)	2
25	NP1000Z10056	・BOLT, Adapter	2
**	NP1000Z10057	・REPAIR KIT (Items marked ** are included in Repair Kit)	1

INJECTOR, LUBRICATION

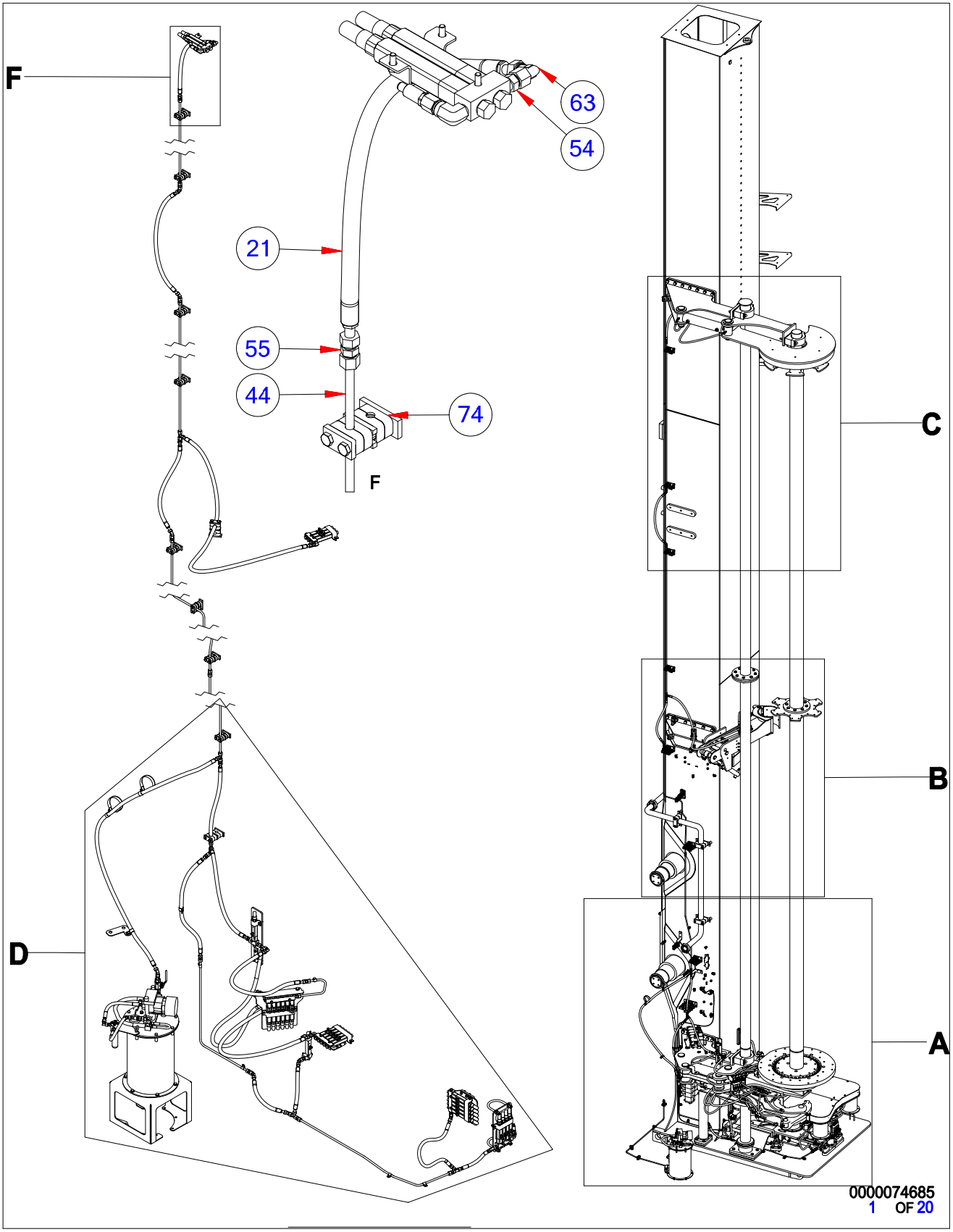


INJECTOR, LUBRICATION

INJECTOR, LUBRICATION

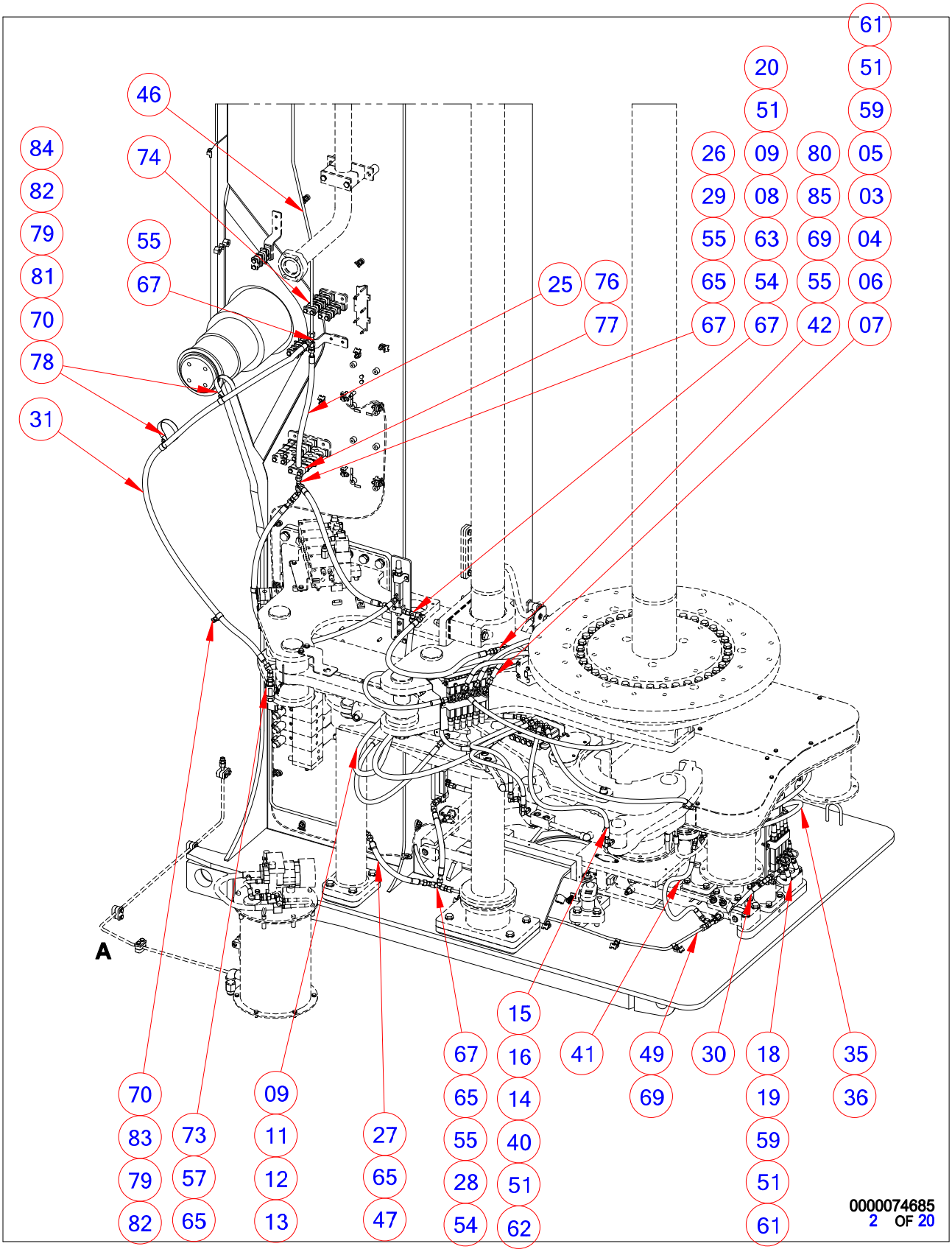
Item	Part No.	Description	Qty.
	R59518D1	INJECTOR, LUBRICATION	
01	NP1000Z10039	・INJECTOR	1
02	NP1000Z10040	・・CAP	1
03		・・O-RING ** (NSS)	1
04	NP1000Z10041	・・SCREW, Adjusting	1
05	NP1000Z10042	・・NUT, Lock	1
06	NP1000Z10043	・・PLUG, Piston Stop	1
07		・・O-RING ** (NSS)	1
08		・・WASHER, Backup ** (NSS)	1
09		・・SEAL ** (NSS)	1
10		・・O-RING ** (NSS)	1
11	NP1000Z10044	・・PISTON	1
12		・・O-RING ** (NSS)	1
13	NP1000Z10045	・・CONNECTOR	1
14	NP1000Z10046	・・BODY, Injector	1
15		・・O-RING ** (NSS)	2
16		・・O-RING ** (NSS)	1
17		・・SPRING ** (NSS)	1
18		・・SPRING ** (NSS)	1
19	NP1000Z10047	・・SEAT, Spring	1
20	NP1000Z10048	・・BODY AND PLUNGER	1
21	NP1000Z10049	・・SCREW, Socket Head	2
22		・・GASKET ** (NSS)	1
23	NP1000Z10050	・MANIFOLD, 1 INJECTOR	1
24		・GASKET ** (NSS)	1
25	NP1000Z10056	・BOLT, Adapter	1
**	NP1000Z10057	・REPAIR KIT Items marked ** are part of REPAIR KIT.	1

HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

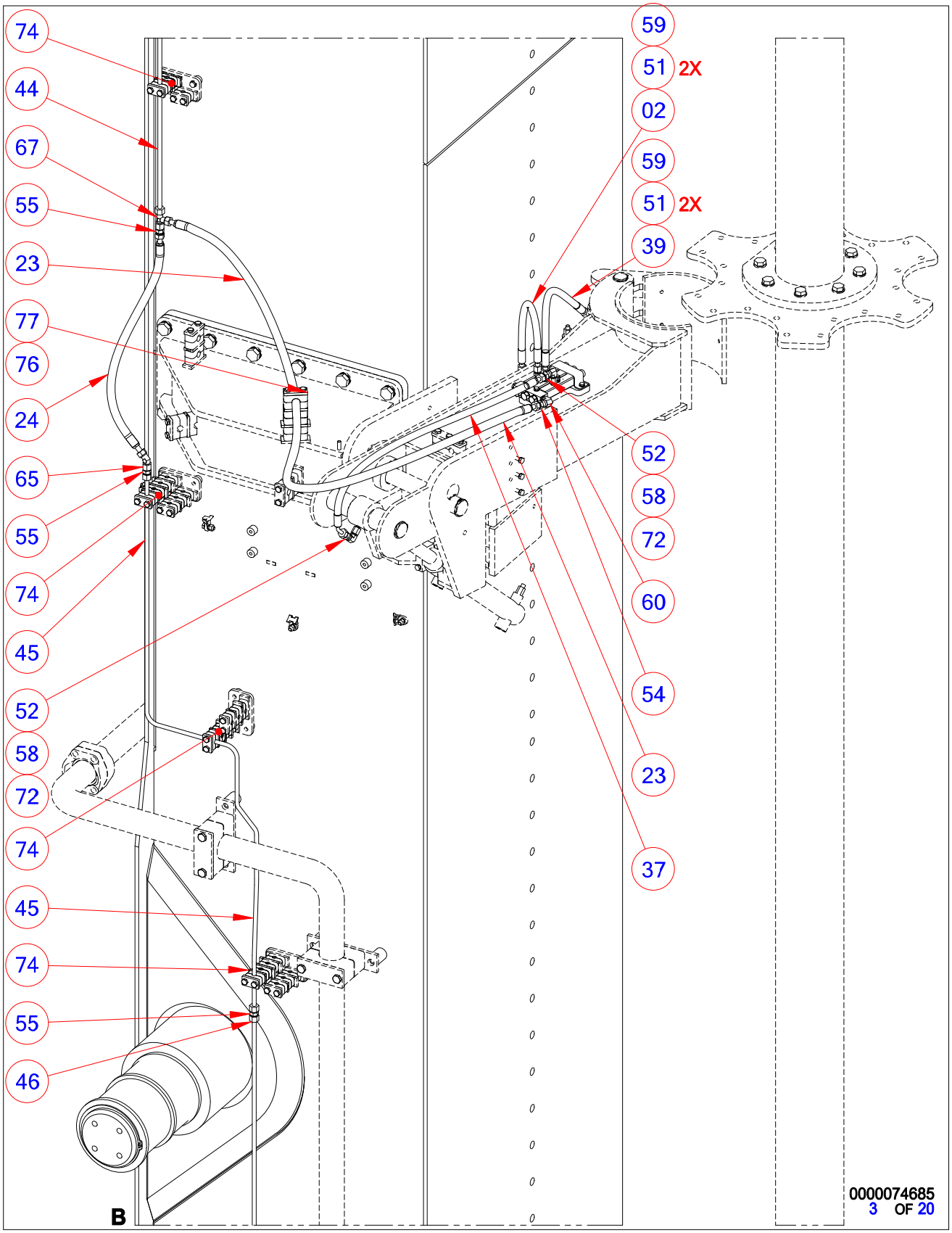
HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

KOMATSU

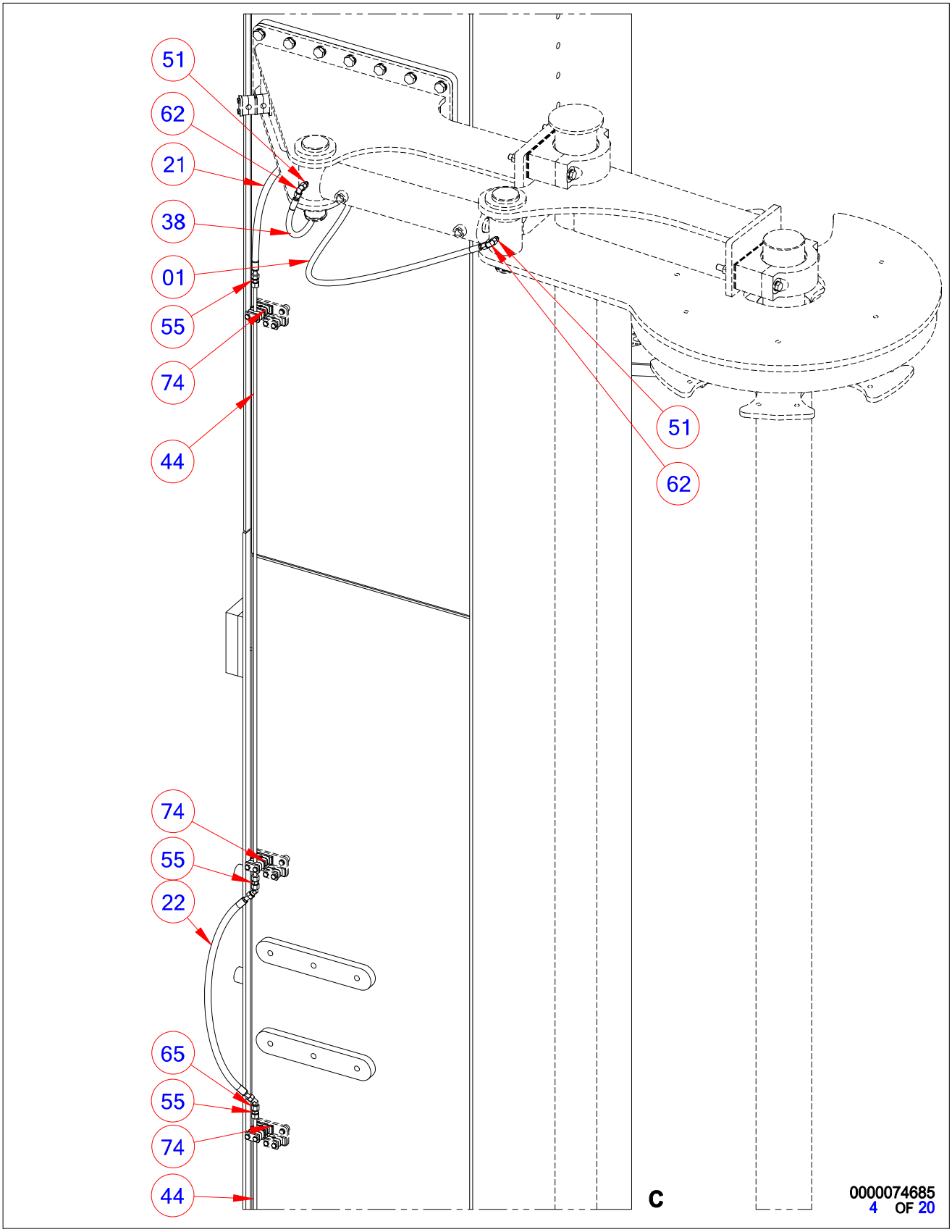
HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

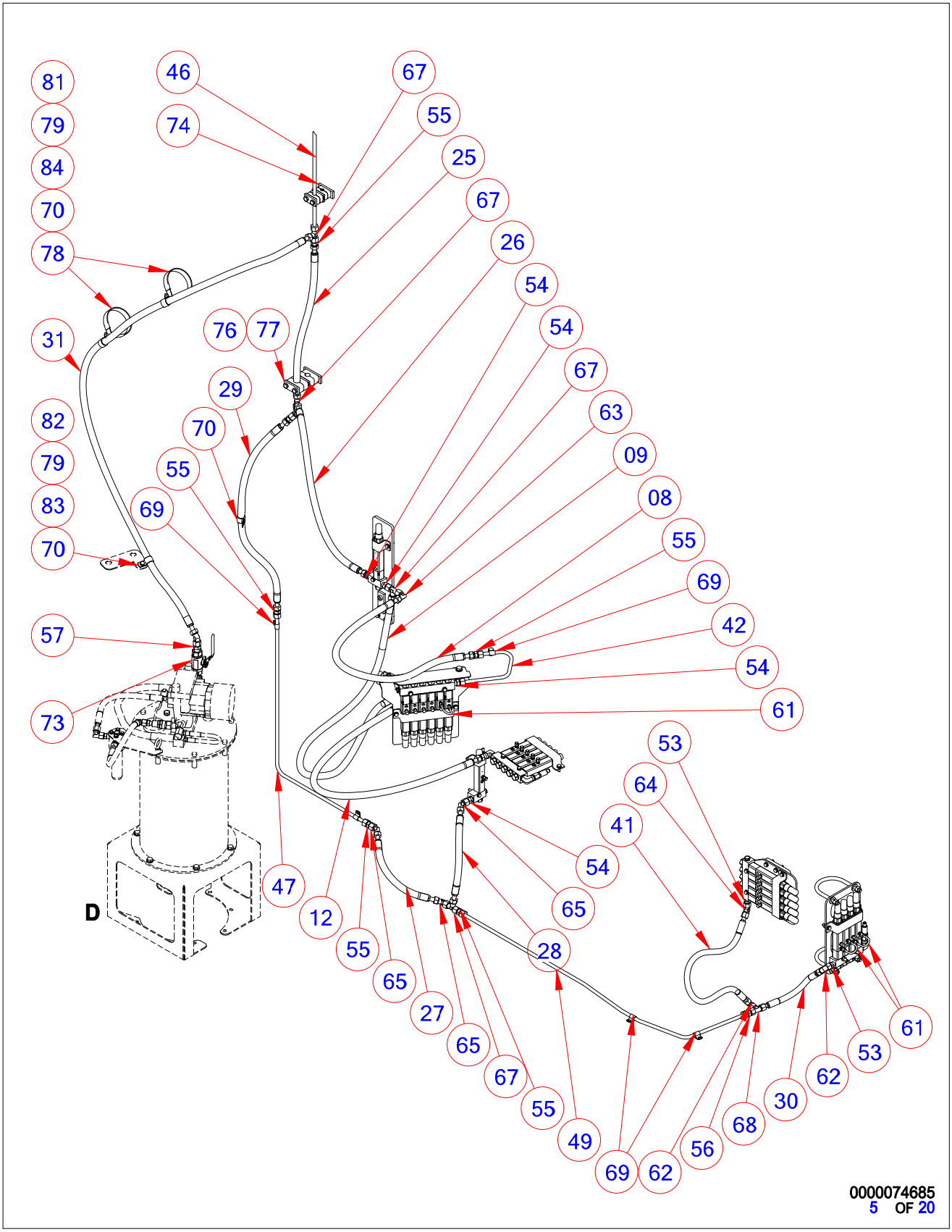
KOMATSU

HOSES INSTALLATION, AUTO LUBE SYSTEM



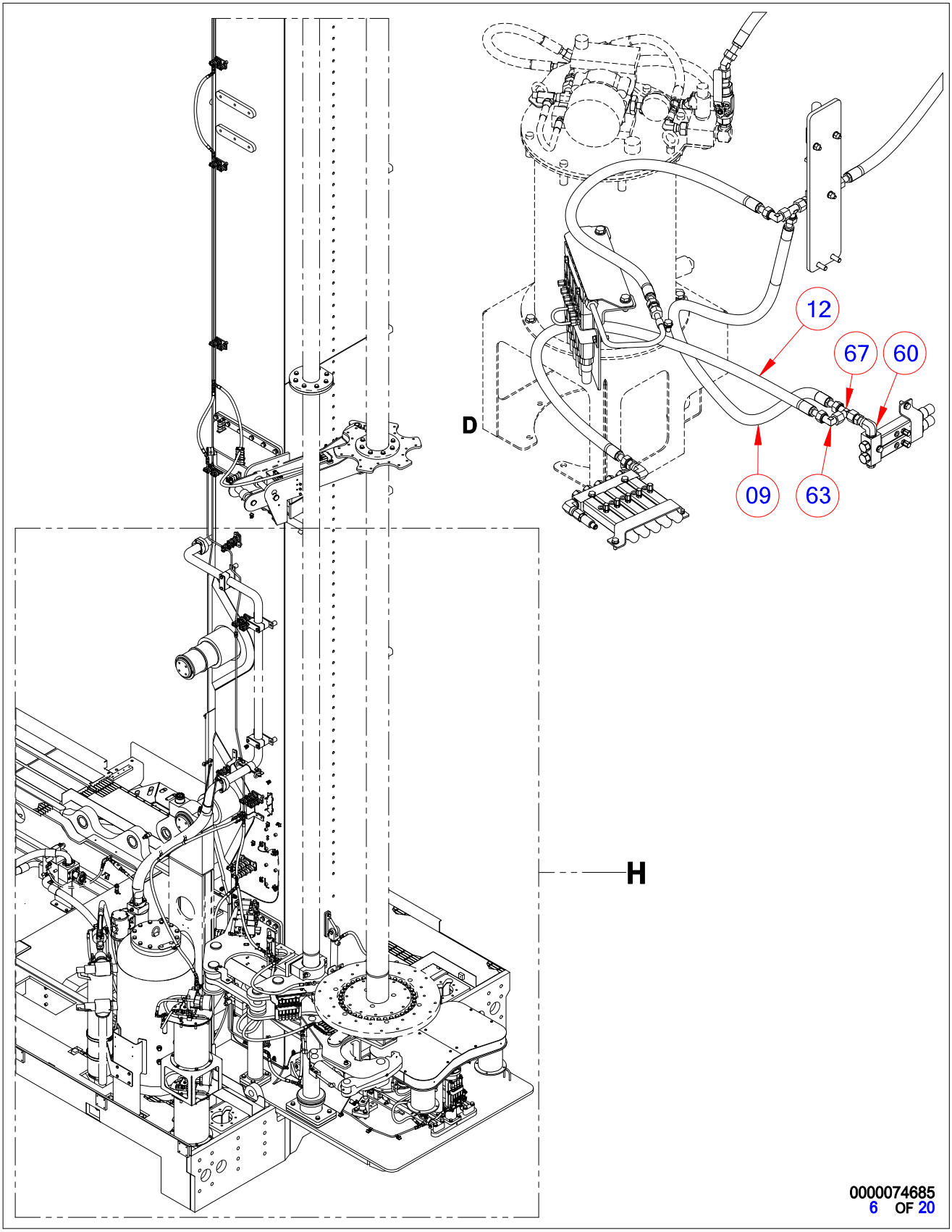
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



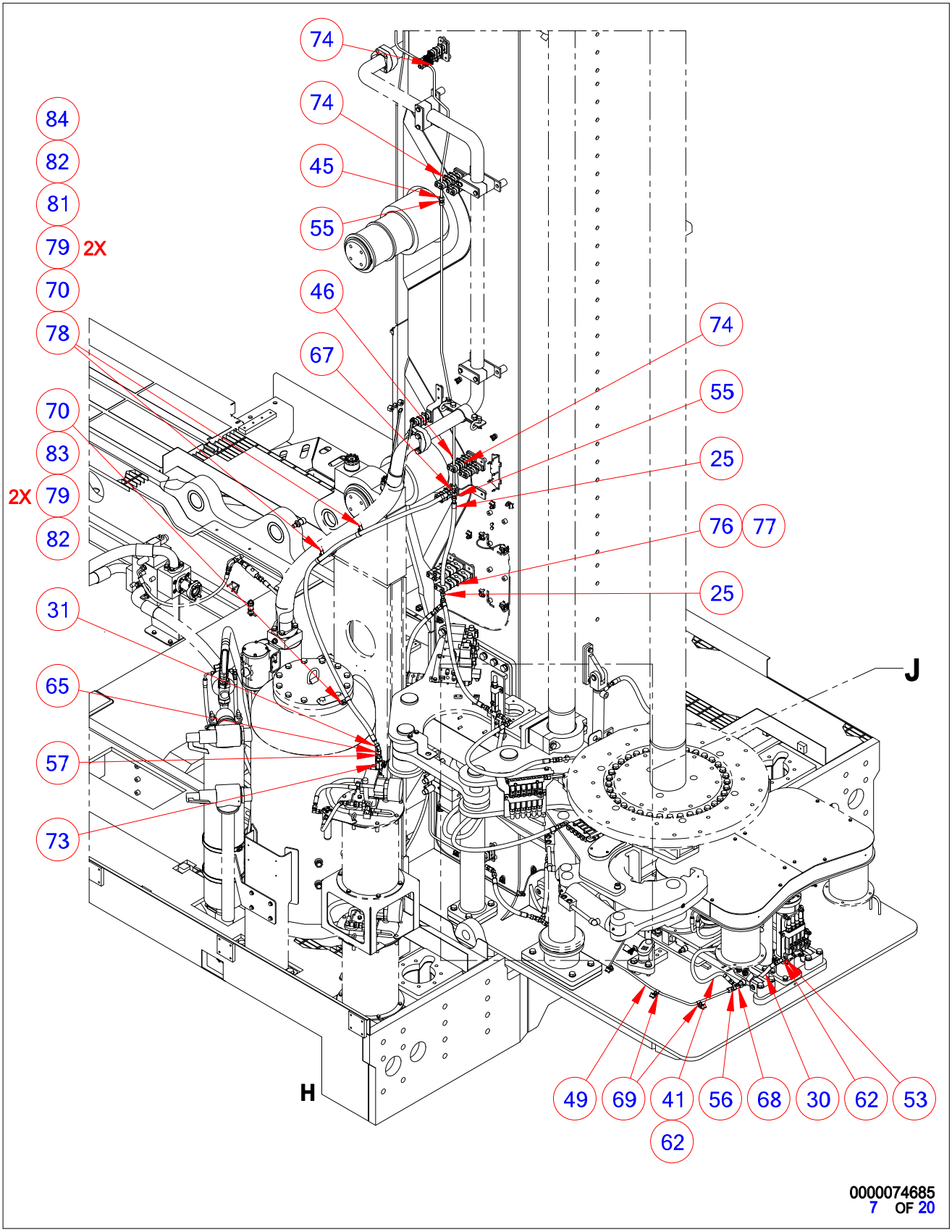
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



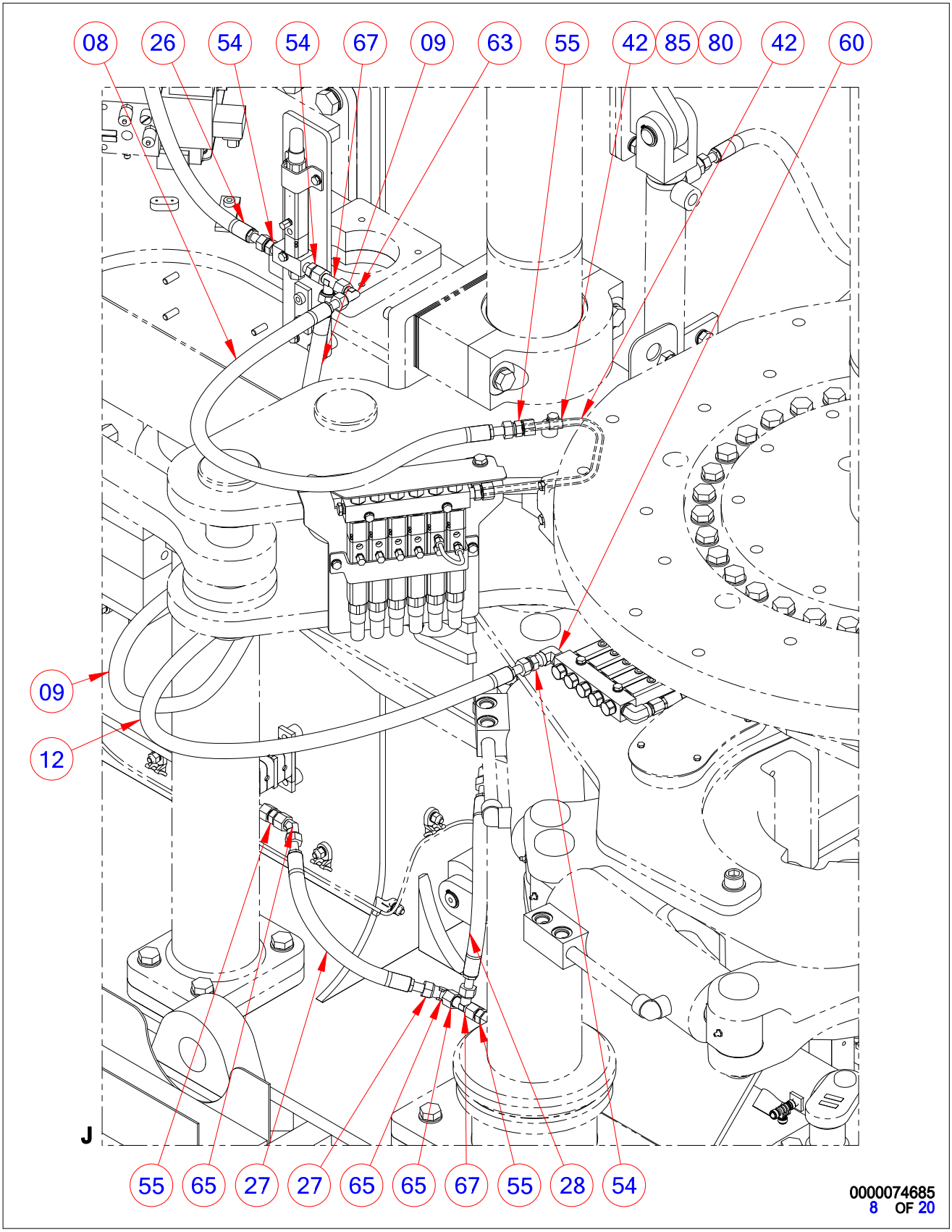
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



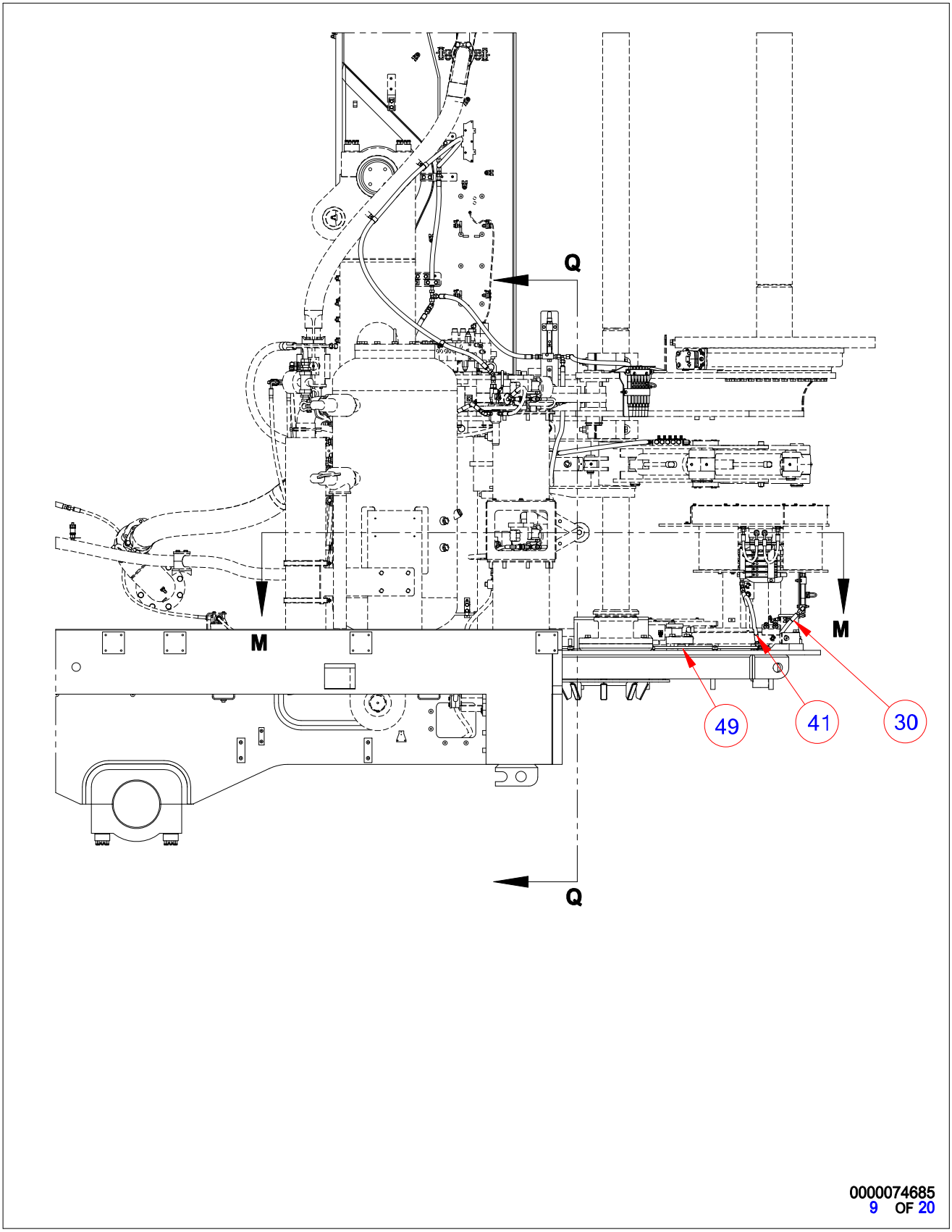
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



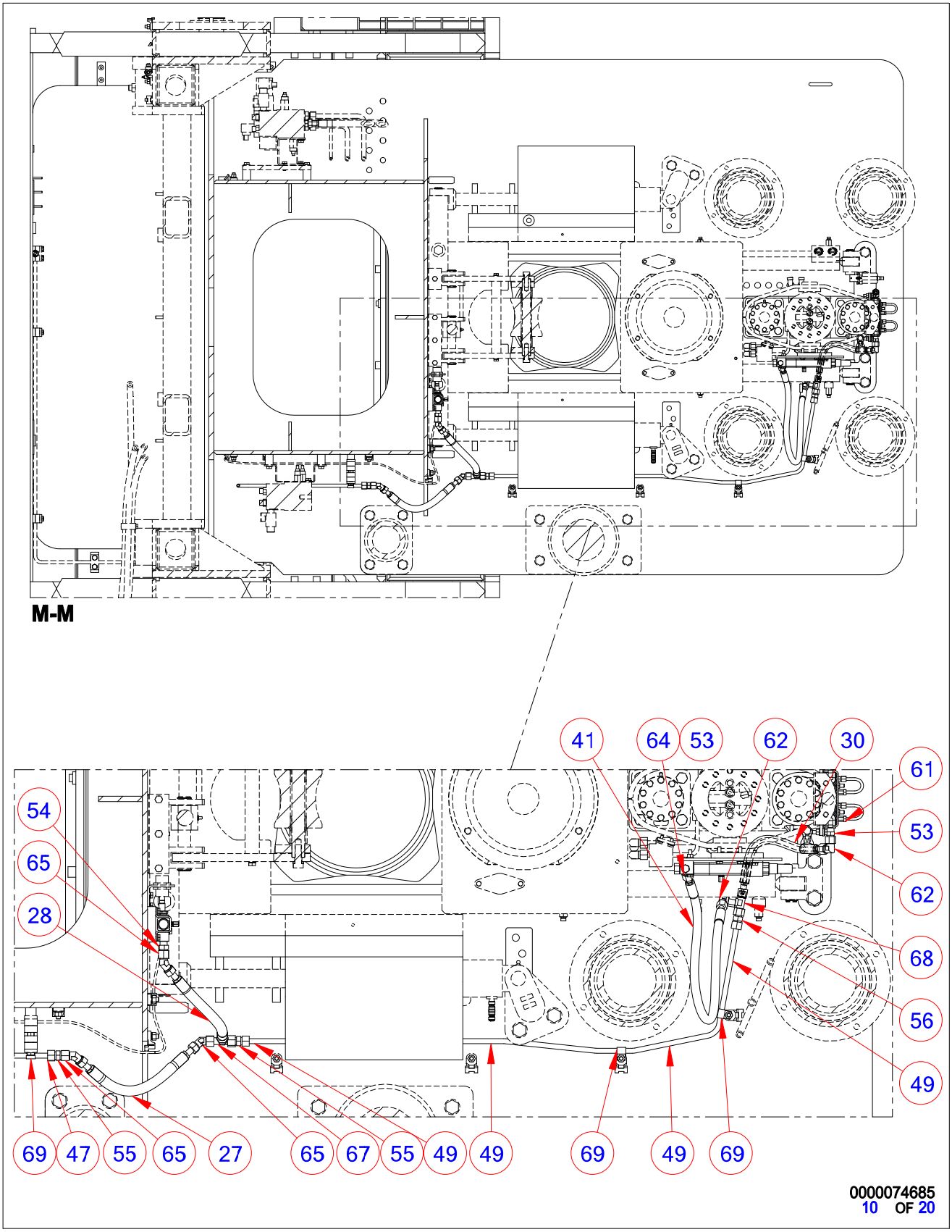
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



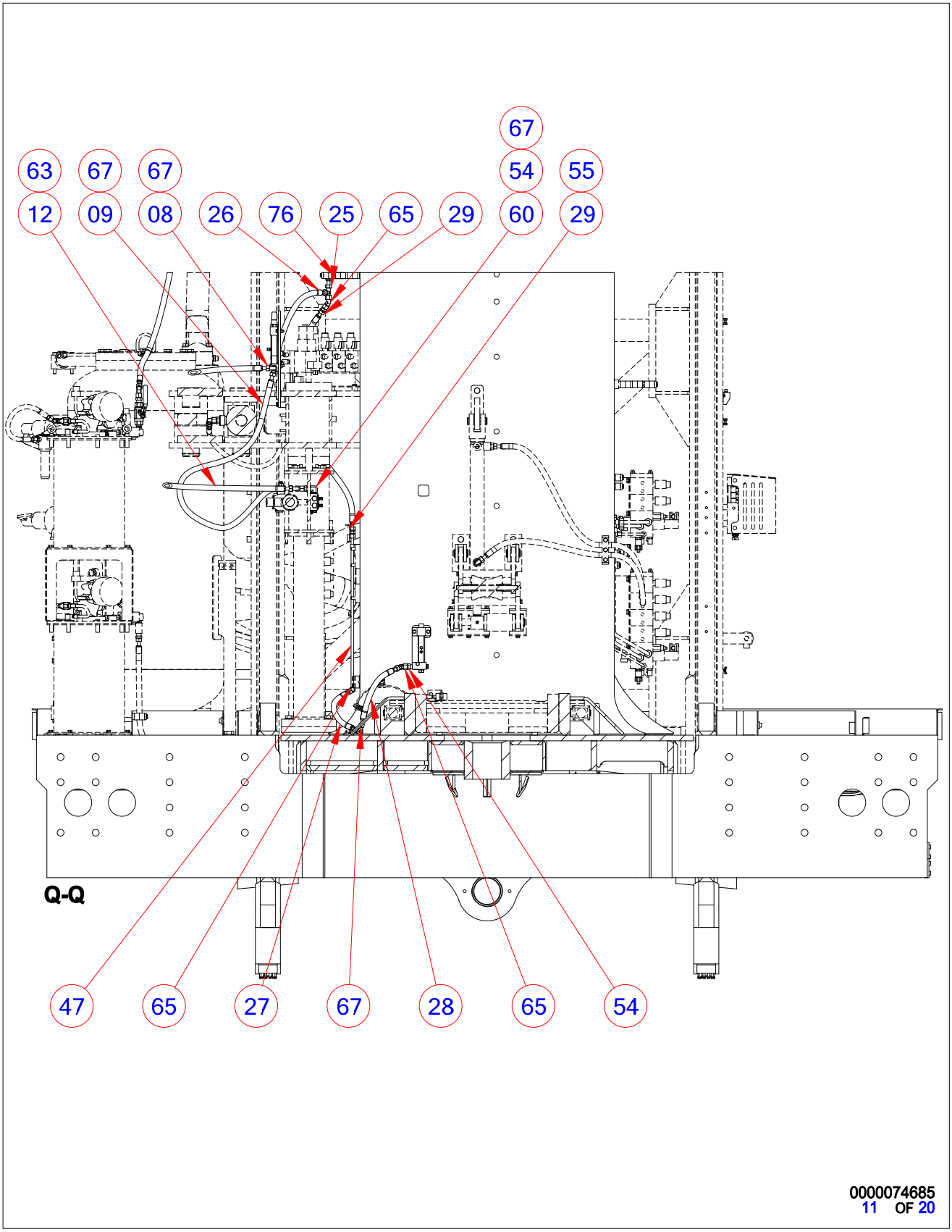
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



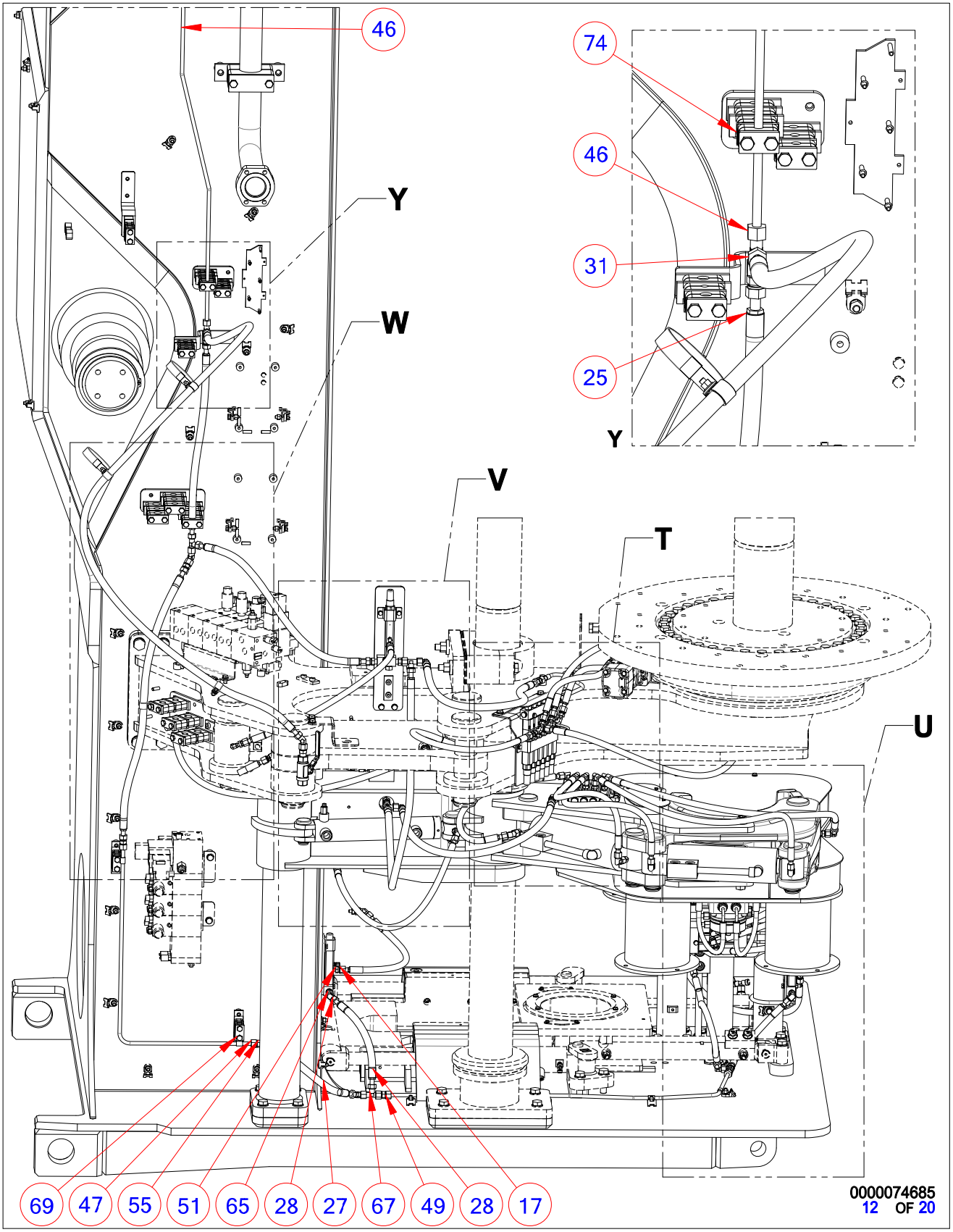
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



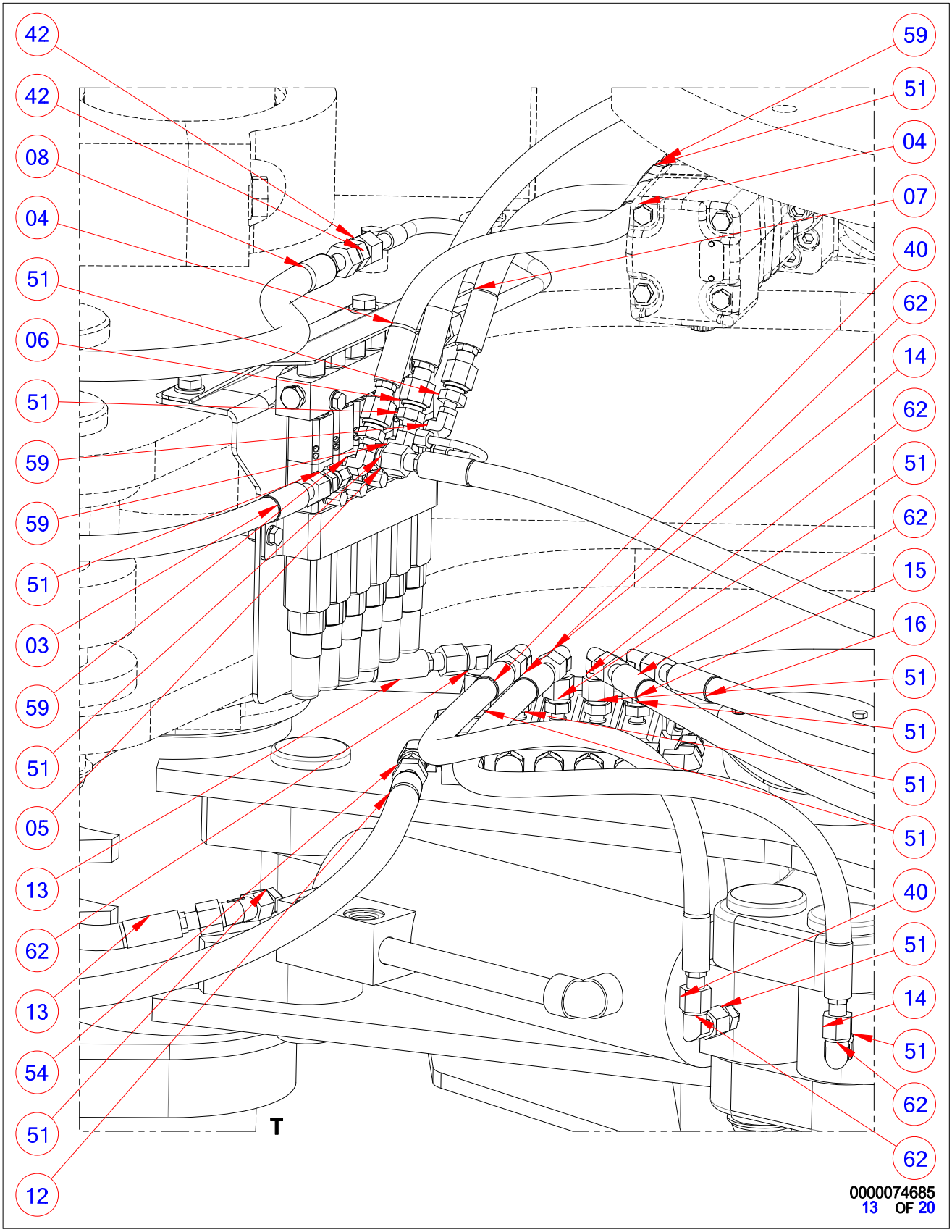
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



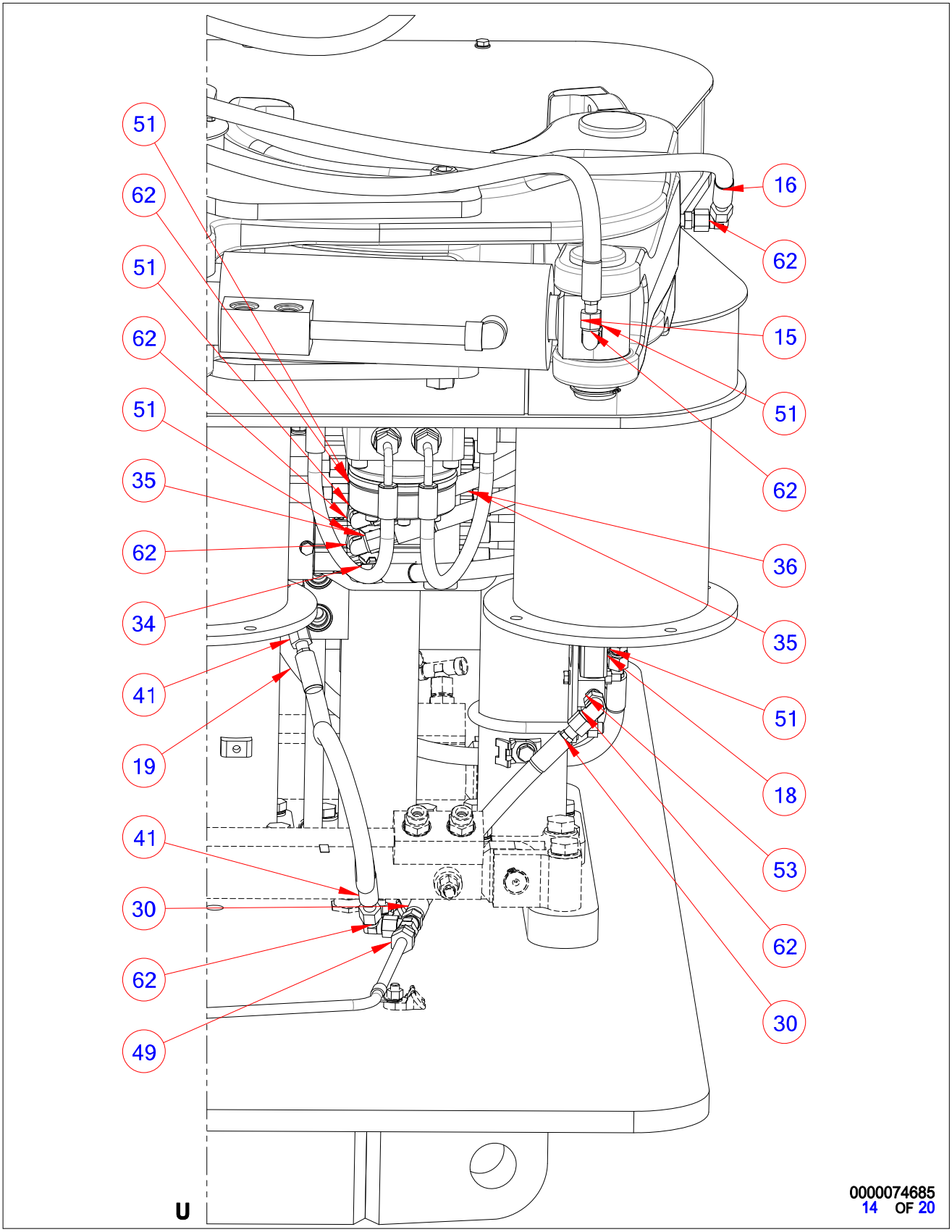
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



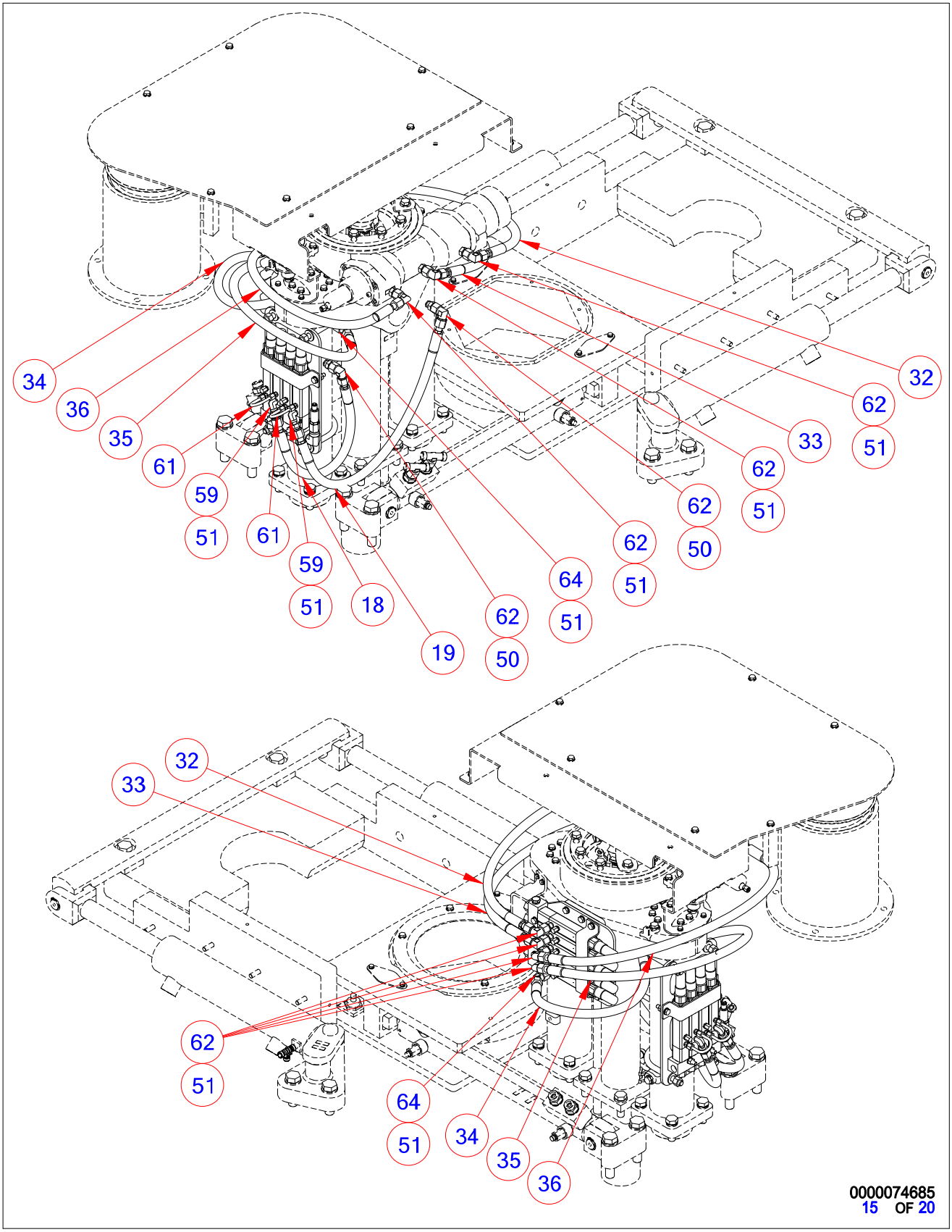
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



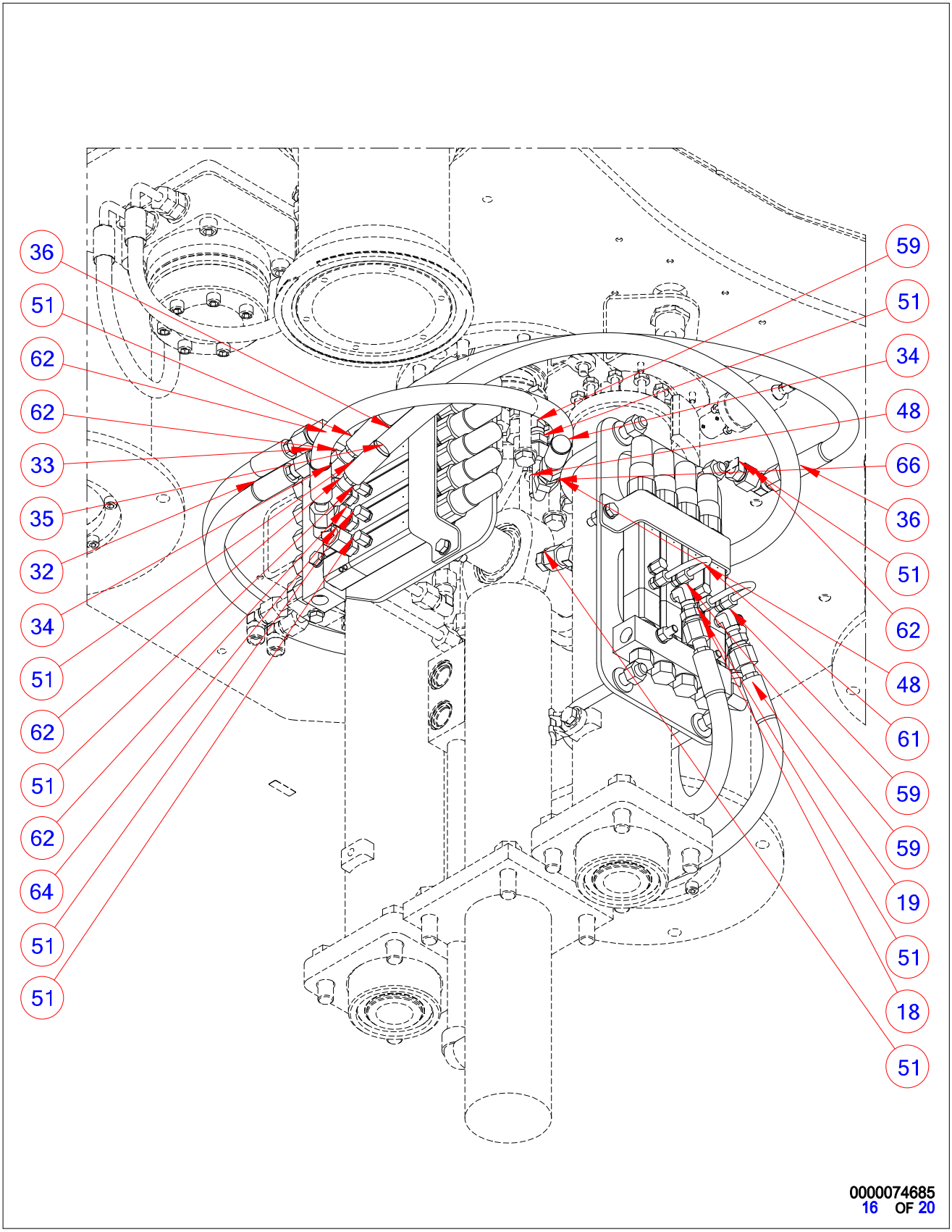
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



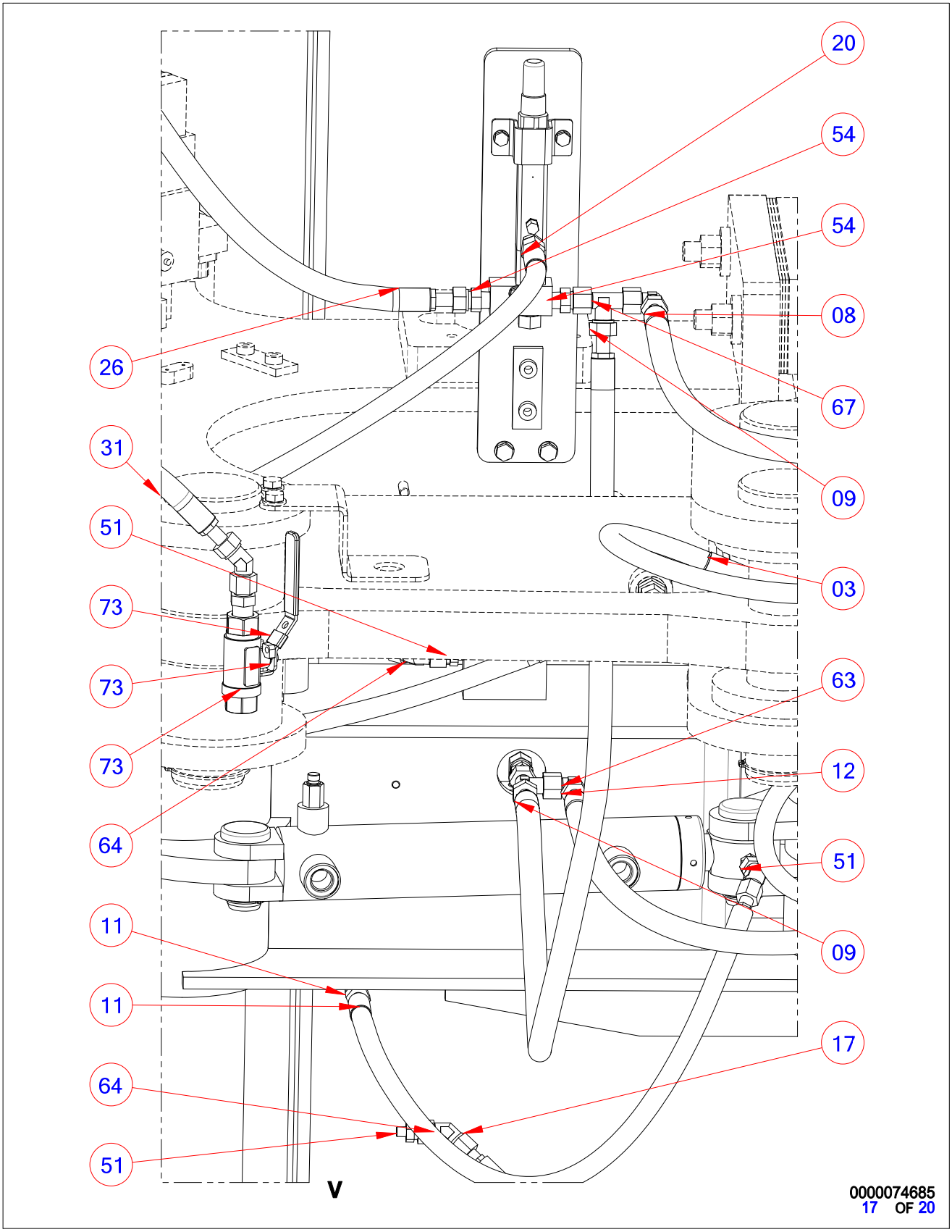
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



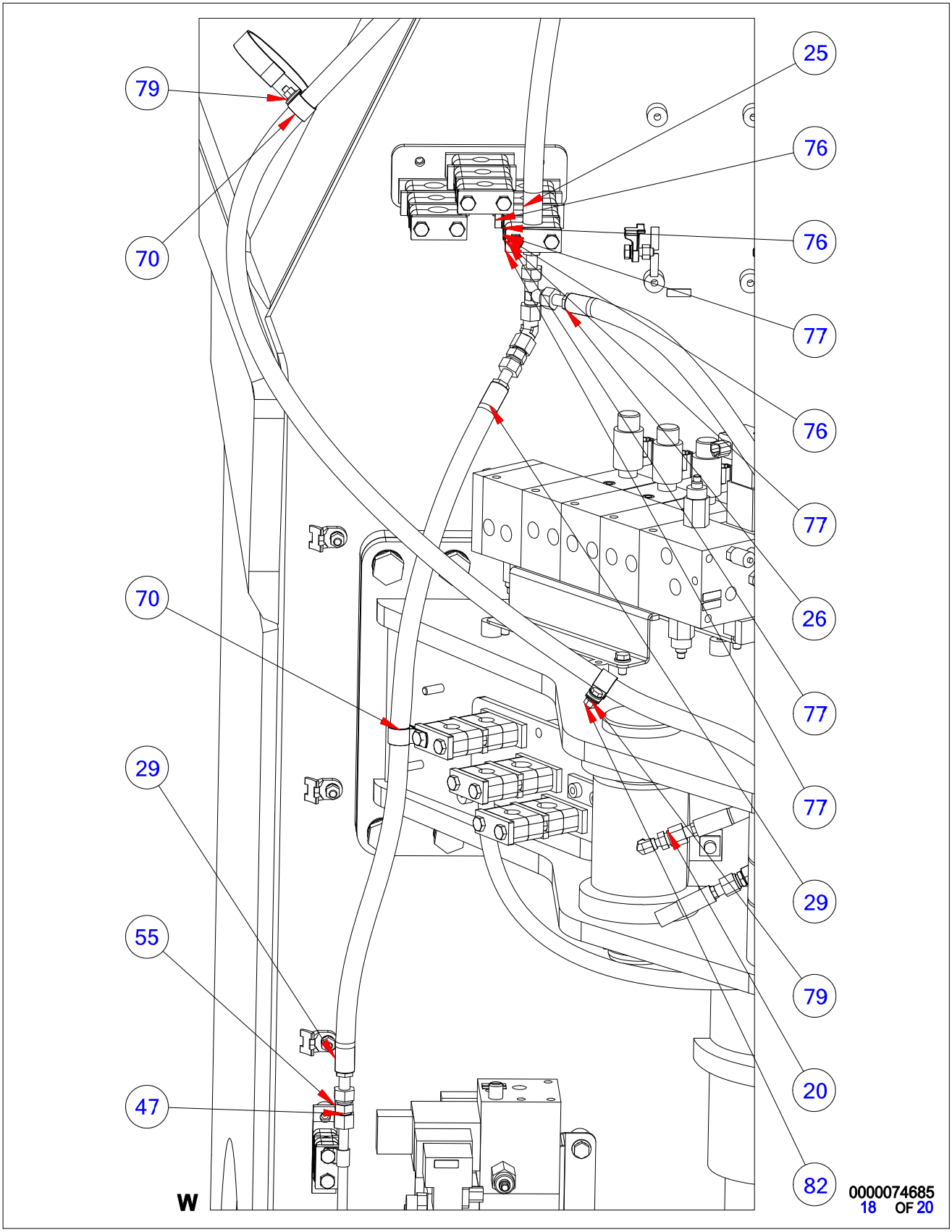
INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

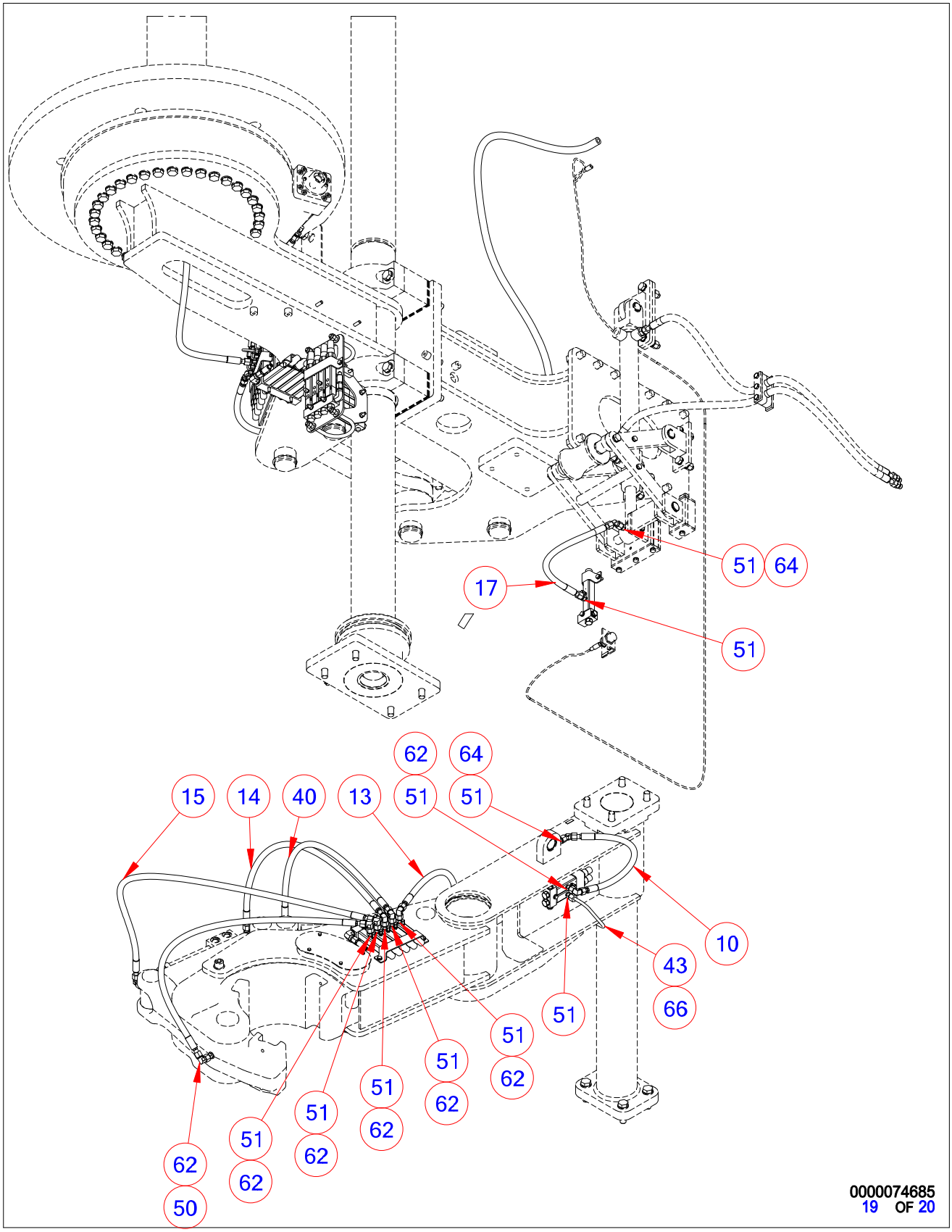
HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

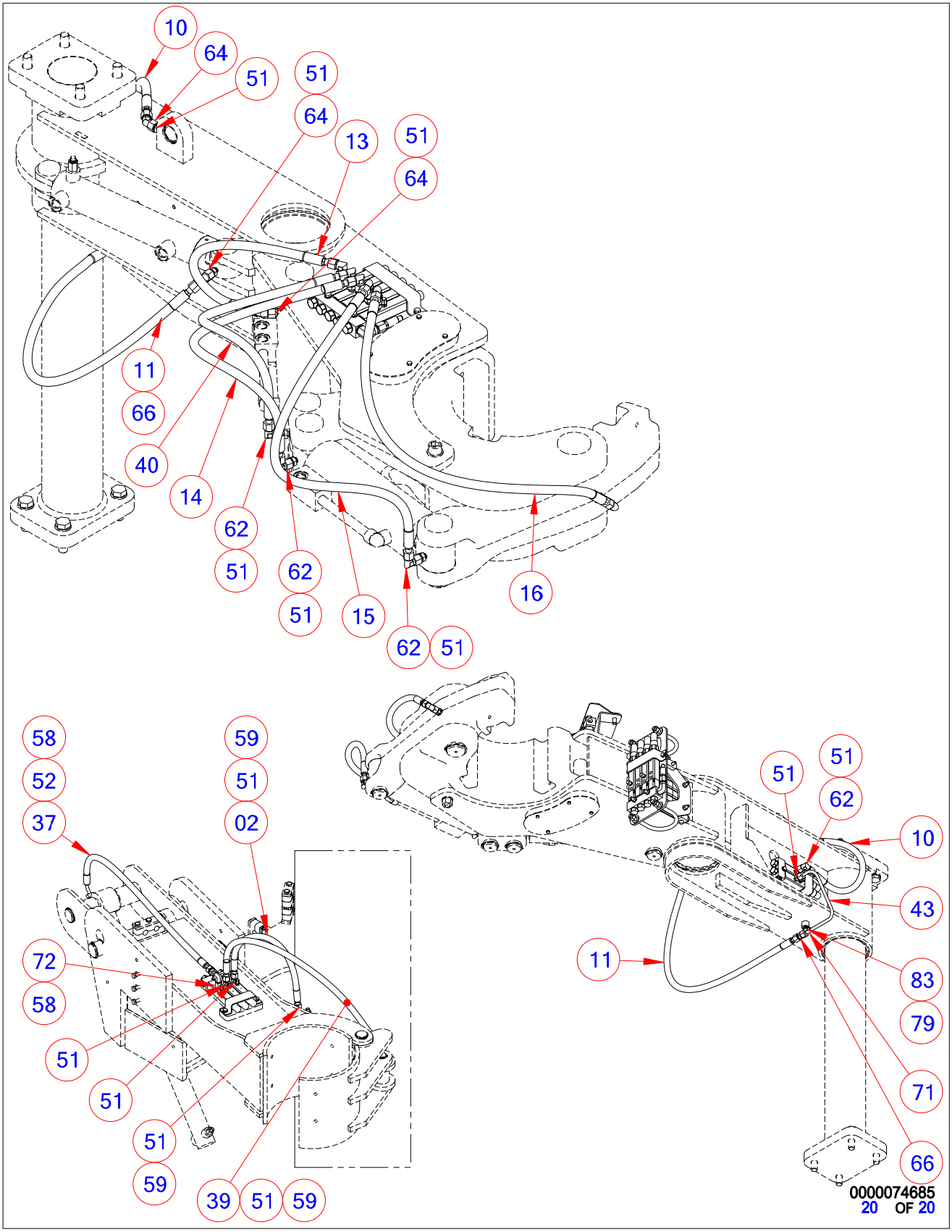
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HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM



INSTALL,HOSES,AUTO LUBE SYSTEM

HOSES INSTALLATION, AUTO LUBE SYSTEM

Item	Part No.	Description	Qty.
	R106149F3	HOSES INSTALLATION, AUTO LUBE SYSTEM	
01	R89780T06M18D145	• HOSE ASSEMBLY	1
02	R89780T06M18D55	• HOSE ASSEMBLY	1
03	R89780T06M18D84	• HOSE ASSEMBLY	1
04	R89780T06M18D46	• HOSE ASSEMBLY	1
05	R89780T06M18D136	• HOSE ASSEMBLY	1
06	R89780T06M18D78	• HOSE ASSEMBLY	1
07	R89780T06M18D52	• HOSE ASSEMBLY	1
08	R89780T08M20D100	• HOSE ASSEMBLY	1
09	R89780T08M20D140	• HOSE ASSEMBLY	1
10	R89780T06M18D53	• HOSE ASSEMBLY	1
11	R89780T06M18D95	• HOSE ASSEMBLY	1
12	R89780T08M20D135	• HOSE ASSEMBLY	1
13	R89780T06M18D56	• HOSE ASSEMBLY	1
14	R89780T06M18D90	• HOSE ASSEMBLY	1
15	R89780T06M18D131	• HOSE ASSEMBLY	1
16	R89780T06M18D120	• HOSE ASSEMBLY	1
17	R89780T06M18D50	• HOSE ASSEMBLY	1
18	R89780T06M18D48	• HOSE ASSEMBLY	1
19	R89780T06M18D68	• HOSE ASSEMBLY	1
20	R89780T06M18D70	• HOSE ASSEMBLY	1
21	R89780T08M20D92	• HOSE ASSEMBLY	1
22	R89780T08M20D94	• HOSE ASSEMBLY	1
23	R89780T08M20D95	• HOSE ASSEMBLY	1
24	R89780T08M20D77	• HOSE ASSEMBLY	1
25	R89780T08M20D69	• HOSE ASSEMBLY	1
26	R89780T08M20D85	• HOSE ASSEMBLY	1
27	R89780T08M20D37	• HOSE ASSEMBLY	1
28	R89780T08M20D35	• HOSE ASSEMBLY	1
29	R89780T08M20D113	• HOSE ASSEMBLY	1
30	R89780T06M18D37	• HOSE ASSEMBLY	1
31	R89780T08M20D340	• HOSE ASSEMBLY	1
32	R89780T06M18D79	• HOSE ASSEMBLY	1
33	R89780T06M18D81	• HOSE ASSEMBLY	1
34	R89780T06M18D54	• HOSE ASSEMBLY	1
35	R89780T06M18D86	• HOSE ASSEMBLY	1
36	R89780T06M18D80	• HOSE ASSEMBLY	1
37	R89781T06M20D100	• HOSE ASSEMBLY	1
38	R89780T06M18D77	• HOSE ASSEMBLY	1
39	R89780T06M18D83	• HOSE ASSEMBLY	1

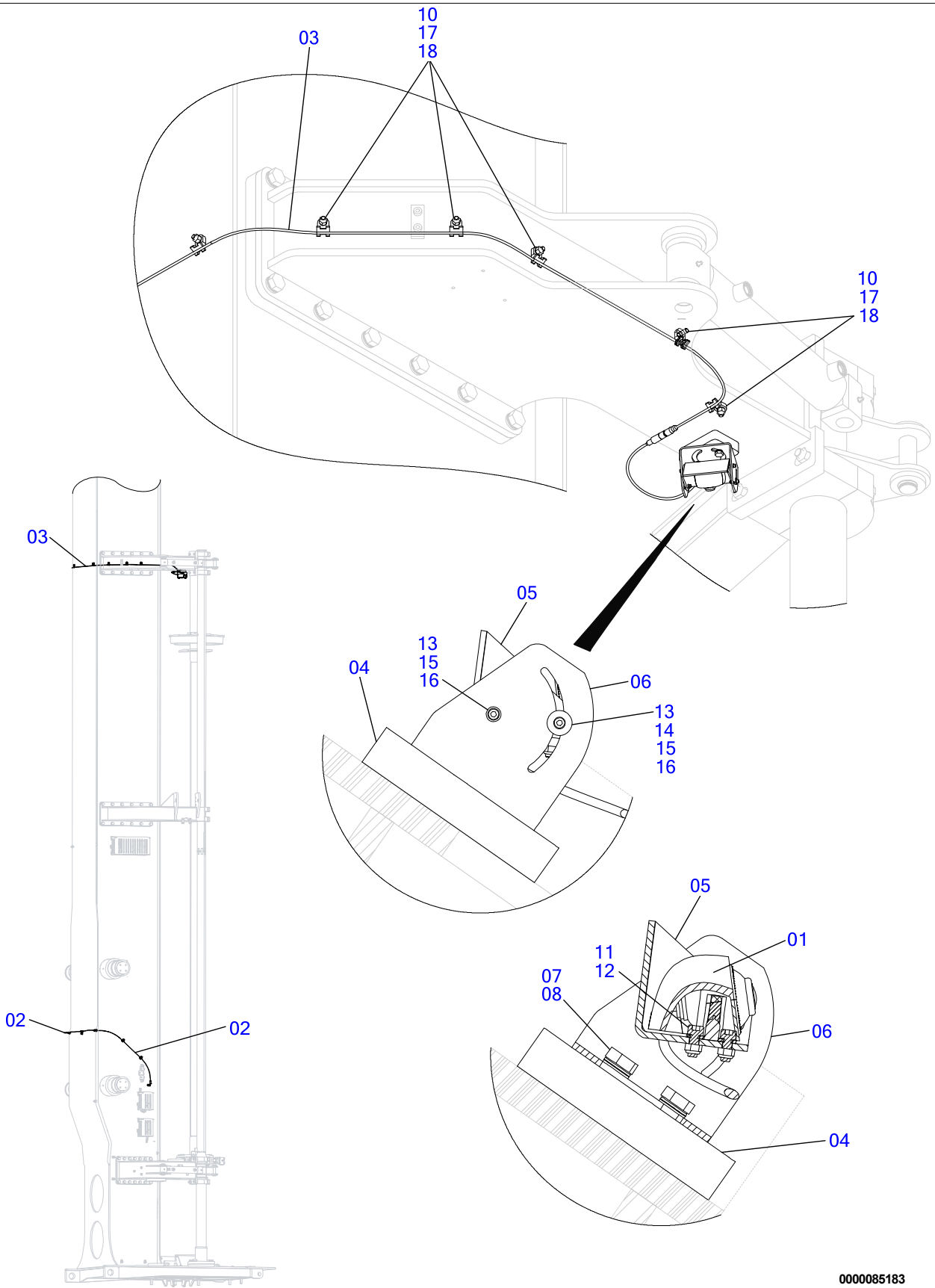
HOSES INSTALLATION, AUTO LUBE SYSTEM

Item	Part No.	Description	Qty.
40	R89780T06M18D80	· HOSE ASSEMBLY	1
41	R89780T06M18D80	· HOSE ASSEMBLY	1
42	R107035D1	· TUBE ASSEMBLY	1
43	R107035D2	· TUBE ASSEMBLY	1
44	R91412D14	· TUBE ASSEMBLY	2
45	R107035D3	· TUBE ASSEMBLY	1
46	R91412D7	· TUBE ASSEMBLY	1
47	R107035D4	· TUBE ASSEMBLY	1
48	R107035D6	· TUBE ASSEMBLY	1
49	R107035D5	· TUBE ASSEMBLY	1
50	R89779D2	· CONNECTOR, S10 x 1/4in NPT	3
51	R89779D1	· CONNECTOR, S10 x 1/8in NPT	47
52	R89779D5	· CONNECTOR, S12 x 1/4in NPT	2
53	R89779D3	· CONNECTOR, S10 x 3/8in NPT	2
54	R89779D6	· CONNECTOR, S12 x 3/8in NPT	8
55	R89770D2	· CONNECTOR, Union, S12	12
56	R89771D1	· CONNECTOR, Union, S12 x S10	1
57	R89779D7	· CONNECTOR, S12 x 1/2in NPT	1
58	44Z341D2	· ELBOW, 90 Degree Street	2
59	44Z341D1	· ELBOW	13
60	44Z341D3	· ELBOW, 90 Degree Street	3
61	44Z1445	· CONNECTOR, Tube	3
62	R89793D1	· CONNECTOR	26
63	R89793D2	· CONNECTOR	3
64	R89794D1	· CONNECTOR	7
65	R89794D2	· CONNECTOR	8
66	R89770D1	· CONNECTOR	2
67	R89795D2	· CONNECTOR	6
68	R89795D1	· CONNECTOR	1
69	32Z423D10	· CLAMP, Insulated	5
70	32Z423D22	· CLAMP	4
71	32Z423D8	· CABLE HANGER	1
72	44Z614D6	· REDUCER, Pipe	2
73	R106631D1	· BALL VALVE, Locking	1
74	R78948D5	· CLAMP	8
75		NOT USED	
76	R78949D15	· CLAMP	2
77	R78953D18	· CLAMP	2
78	32Z423D45	· CLAMP, Insulated	2
79	3612M008	· WASHER, Plain	7

HOSES INSTALLATION, AUTO LUBE SYSTEM

Item	Part No.	Description	Qty.
80	3612M010	• WASHER, Plain	1
81	3612M012	• WASHER, Plain	2
82	2104M008	• NUT, Hex	3
83	0825M08020	• BOLT, Hex Hd	2
84	0825M08025	• BOLT, Hex Hd	2
85	0825M10020	• BOLT, Hex Hd	1

CAMERA KIT, THREAD VIEW, SINGLEPASS



CAMERA KIT, THREAD VIEW, SINGLEPASS

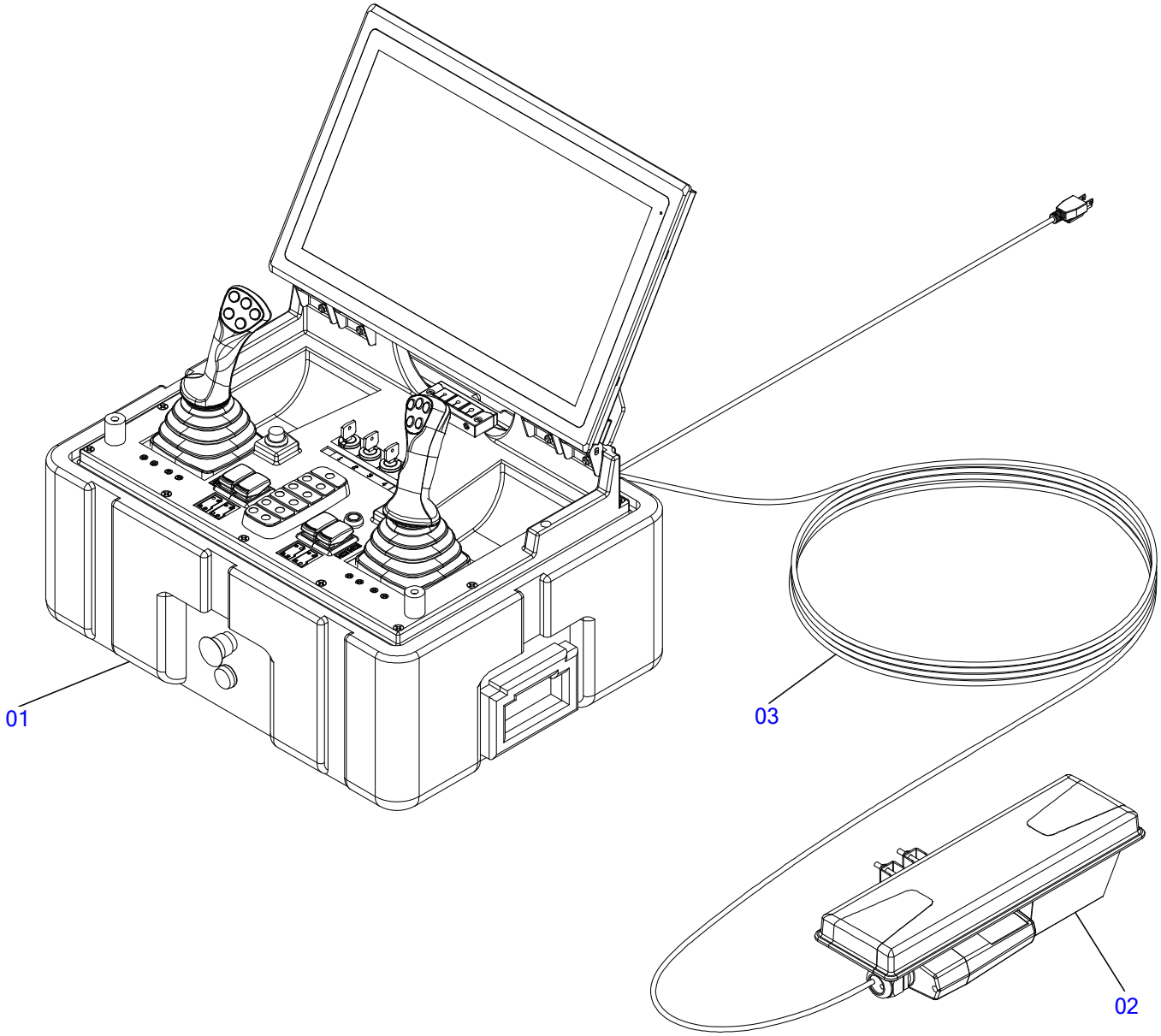
CAMERA KIT, THREAD VIEW, SINGLEPASS

Item	Part No.	Description	Qty.
	R120986F1	CAMERA KIT, THREAD VIEW, SINGLEPASS	
01	R95938D2	· CAMERA	1
02	R95939D1	· CABLE, 2.5 Meter	2
03	R95939D2	· CABLE, 10 Meter	1
04	R120994D1	· THREADED PLATE, Thread View Camera Mounting	1
05	R106889D1	· BRACKET, Hawkeye Camera	1
06	R120993D1	· BRACKET, Thread View Camera	1
07	0825M10025	· BOLT, Hex Hd	2
08	R82264D20	· LOCKWASHER SET (The set includes two washers necessary for application.)	2
09	18Z3087D4	· WASHER, Conical Lock (Not Shown)	9
10	2104M010	· NUT, Hex	9
11	0630M05012	· SCREW, Socket Hd	4
12	20Z1659D5	· NUT, Lock	4
13	0630M04016	· SCREW, Socket Hd	4
14	3510M005	· WASHER, Oversized	2
15	3612M004	· WASHER, Plain	6
16	20Z1659D4	· NUT, Lock	4
17	R92375D8	· STUD, Weld	9
18	R88247D1	· MOUNT, Single	9
19	R88249D1	· TIE, Wire (Not Shown)	10

TOOLS & SUPPLIES

Item	Description	Page
01	STATION, REMOTE OPERATION CONSOLE	393
02	BUSHING, ROLLER STYLE - 7.63 O.D. PIPE	
03	SHOCK SUB, 5.25 BECO BOX	

STATION, REMOTE OPERATION CONSOLE



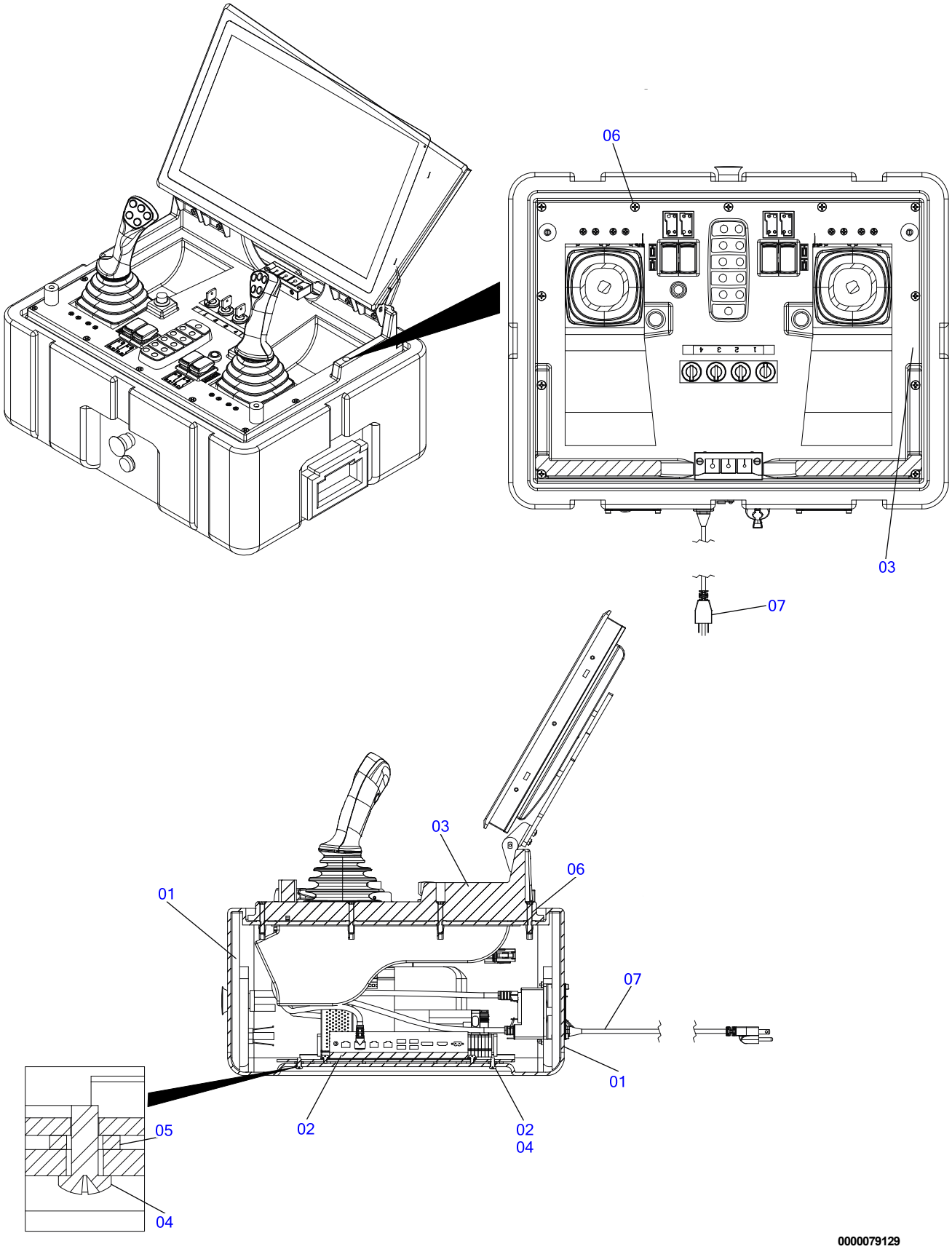
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STATION, REMOTE DRILL CONTROL

STATION, REMOTE OPERATION CONSOLE

Item	Part No.	Description	Qty.	Page
	R111115F1	STATION, REMOTE OPERATION CONSOLE		
01	R110887F1	▪ CONSOLE, Remote Operation	1	394
02	R111112D1	▪ BASE STATION, Wireless	1	
03	R111517D500	▪ CABLE, X-Code	1	

CONSOLE, REMOTE OPERATION

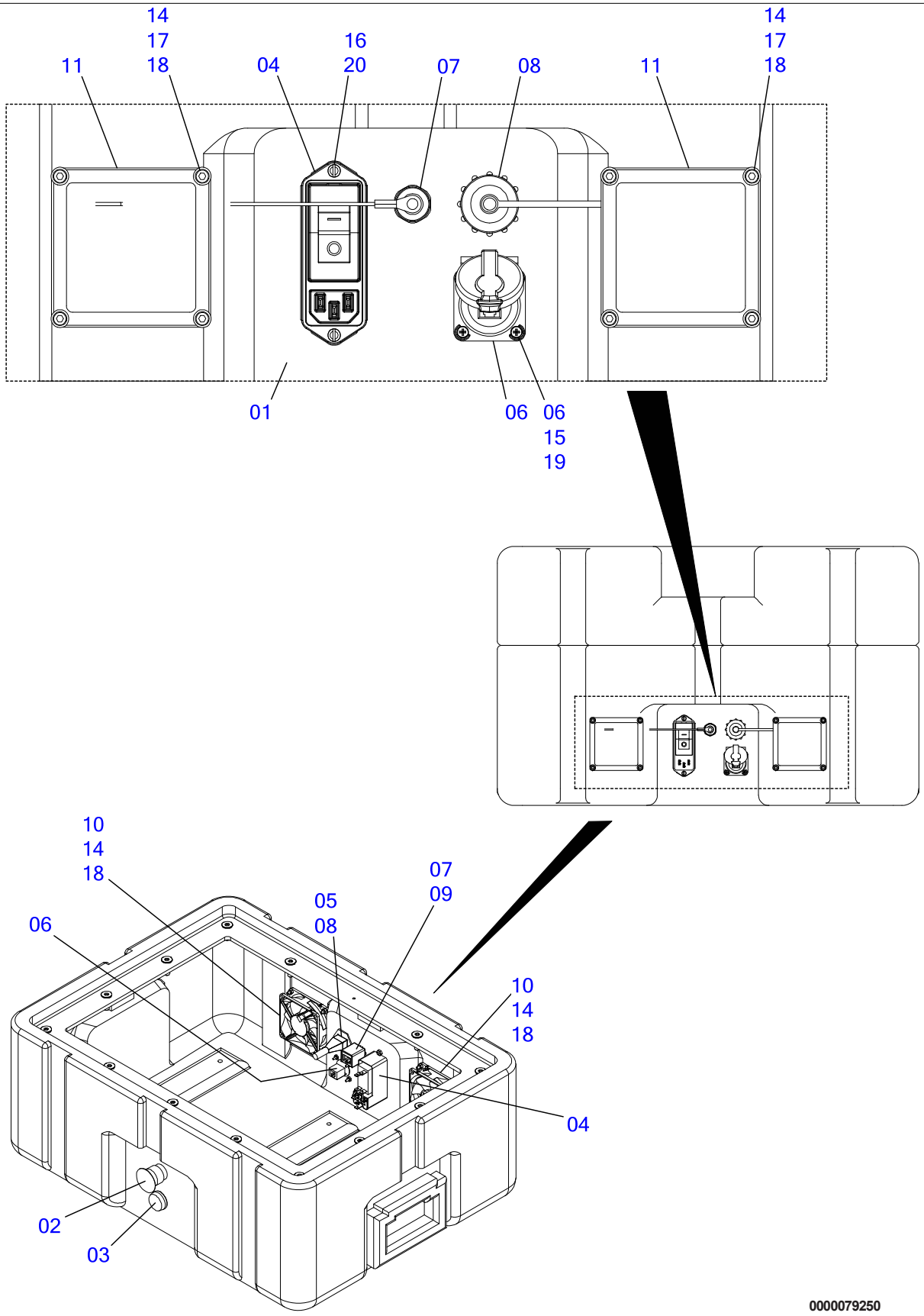


TELE-OP, MOBILE CONTROL CASE

CONSOLE, REMOTE OPERATION

Item	Part No.	Description	Qty.	Page
	R110887F1	CONSOLE, REMOTE OPERATION		
01	R110888F1	▪ CONTROL CASE, Remote Operation - Base Assembly	1	395
02	R110890F1	▪ TELE-OP, Mobile Control Case - Panel Assembly	1	396
03	R110892F1	▪ TRAY, Remote Operation Console	1	397
04	0856V066	▪ SCREW, Pan Hd Mach	6	
05	R115031D1	▪ WASHER, Rubber	6	
06	R112930D129	▪ SCREW, Flat Head Cross	11	
07	R97774D1	▪ CORD, Power Supply	1	
08	R111455D40	▪ CABLE, RJ45 (Not Shown)	2	
09	R112537D1	▪ CABLE, HDMI (Not Shown)	1	

CONTROL CASE, REMOTE OPERATION - BASE ASSEMBLY



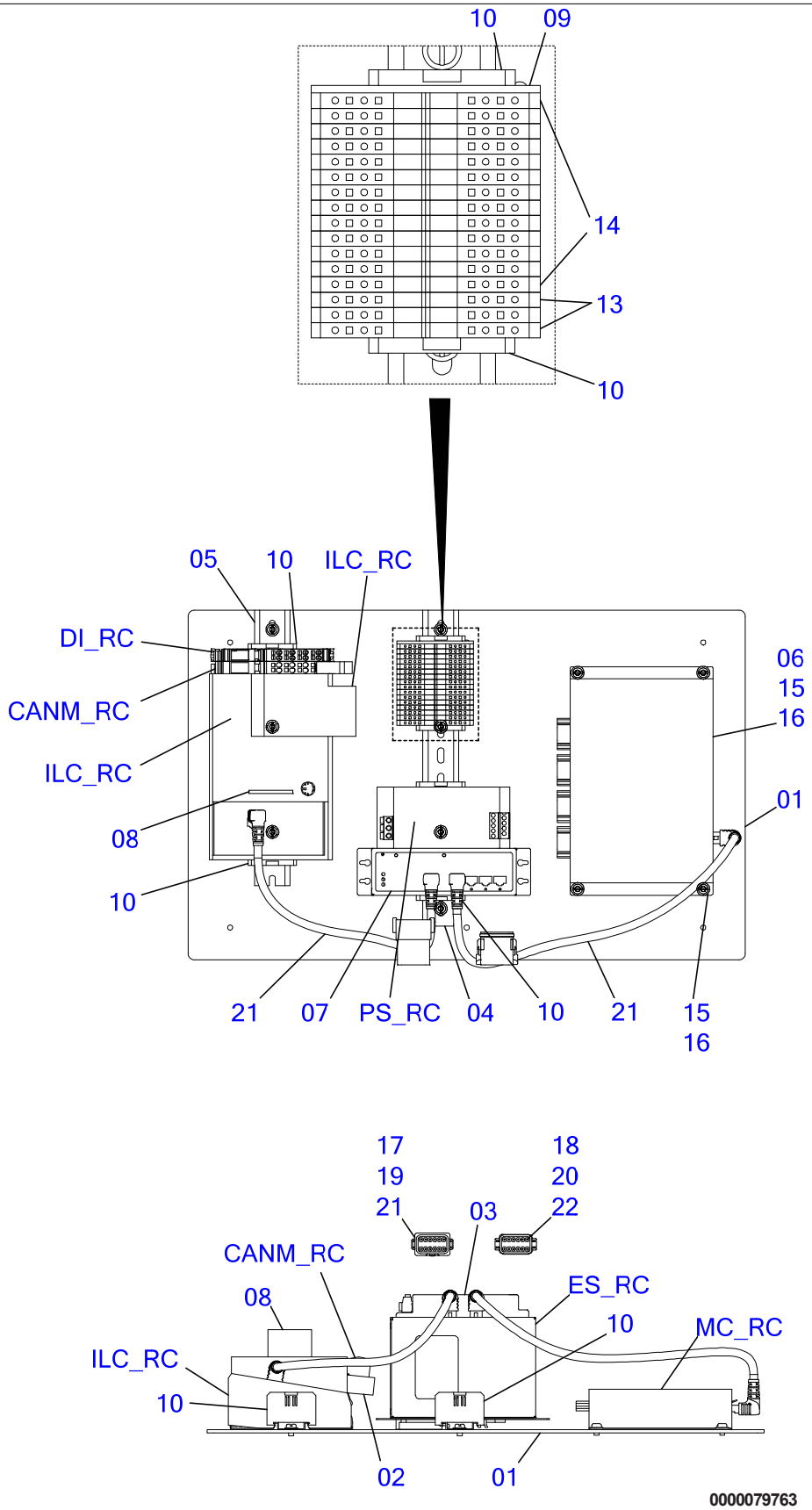
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CONTROL CASE, REMOTE OPERATION - BASE ASSEMBLY

CONTROL CASE, REMOTE OPERATION - BASE ASSEMBLY

Item	Part No.	Description	Qty.
	R110888F1	CONTROL CASE, REMOTE OPERATION - BASE ASSEMBLY	
01	R110889F1	· CASE, Mobile Control	1
02	R110894D1	· BUTTON, Mushroom - Yellow	1
03	R110895D1	· BUTTON, Green	1
04	R96841D1	· POWER BLOCK, Input	1
05	R97113D1	· CORD, USB	1
06	R4265754	· RECEPTACLE, Ethernet - w/ Cap	1
07	R73193D1	· CAP, Male	1
08	R93462D1	· CAP, USB Port	1
09	R105679D1	· CONNECTOR, Bulkhead	1
10	R110899D1	· FAN	2
11	R110900D1	· FILTER, Fan	2
12	R95134D1	· ADHESIVE, Plastic (Not Shown)	1
13	R94504D1	· NOZZLE, Mixer (Not Shown)	1
14	20Z1659D4	· NUT, Lock	8
15	2136V001	· NUT, Hex	4
16	2136V002	· NUT, Hex	2
17	3612M004	· WASHER, Plain	8
18	0830M04020	· SCREW, Socket Hd	8
19	0856V008	· SCREW, Pan Hd Mach	4
20	0862V044	· SCREW, Pan Hd Mach	2

TELE-OP, MOBILE CONTROL CASE - PANEL ASSEMBLY

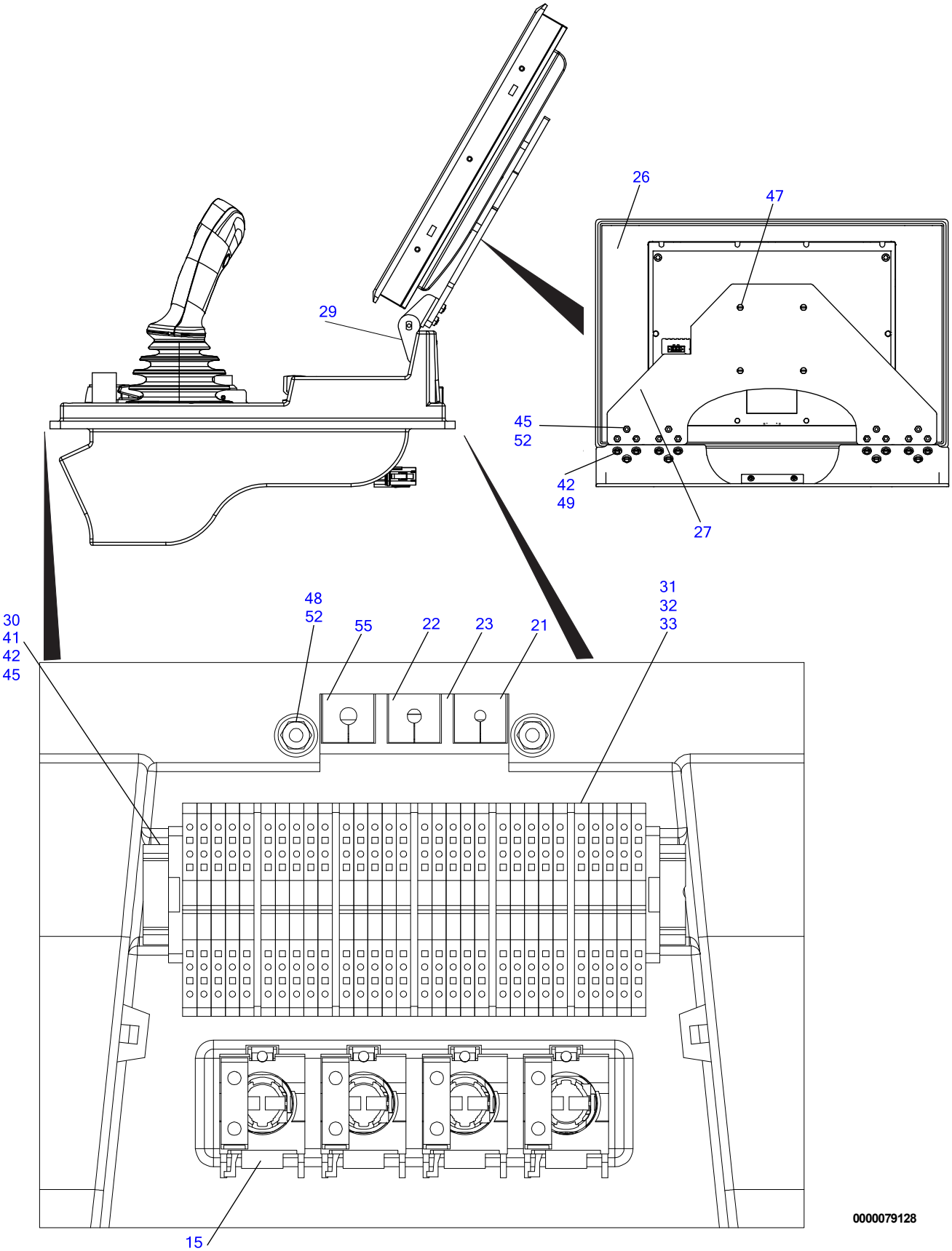


TELE-OP, MOBILE CONTROL CASE - PANEL ASSEMBLY

TELE-OP, MOBILE CONTROL CASE - PANEL ASSEMBLY

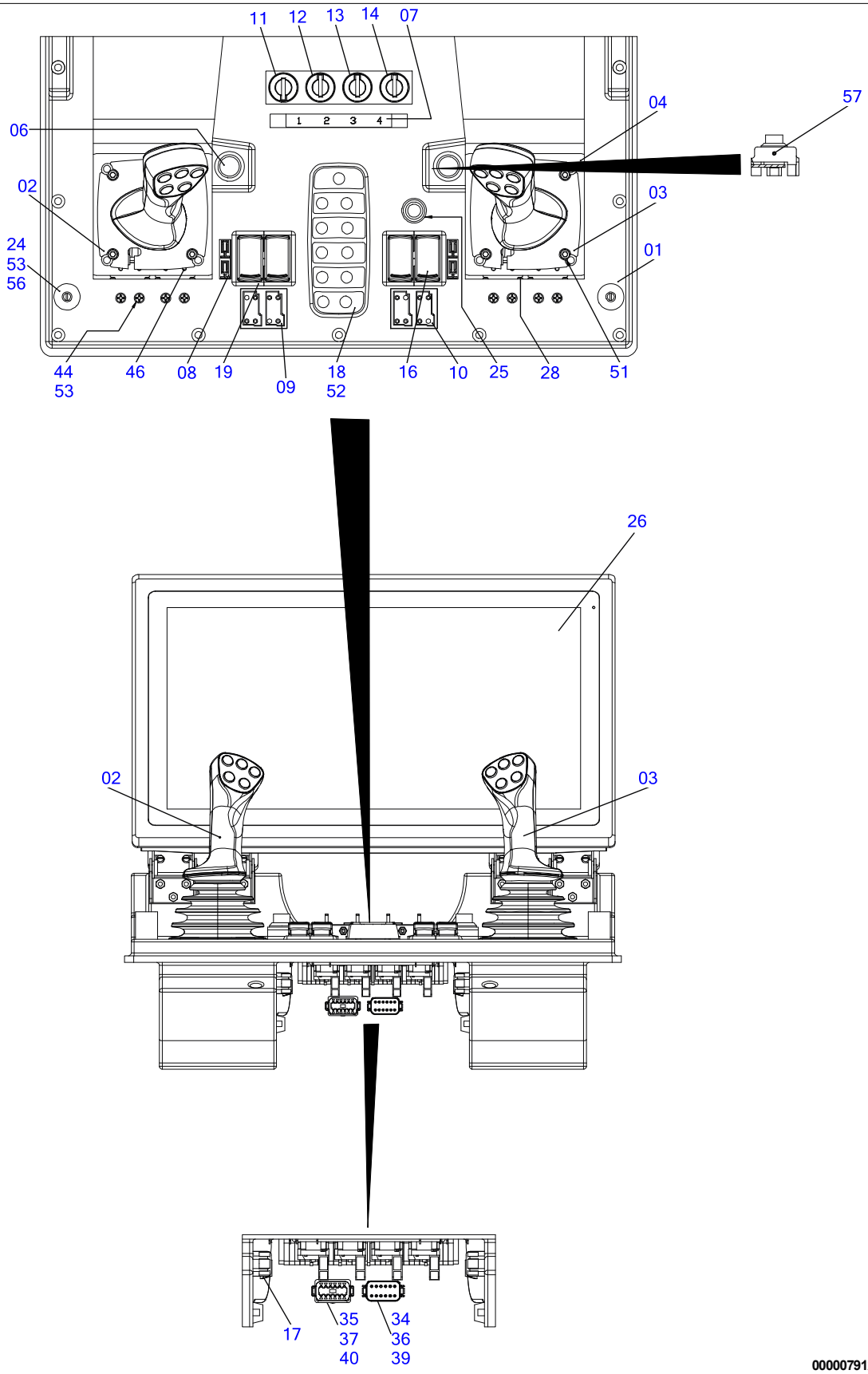
Item	Part No.	Description	Qty.
	R110890F1	TELE-OP, MOBILE CONTROL CASE - PANEL ASSEMBLY	
01	R110891D1	· MOUNTING PANEL, Control Case	1
ILC_RC	R95144D2	· CONTROLLER, Profinet	1
PS_RC	R96485D1	· POWER SUPPLY	1
04	R105898D31	· RAIL, Mounting	1
05	R105898D27	· RAIL, Mounting	1
MC_RC		· COMPUTER, Programmed	1
NOTE: For repair or replacement of the programmed computer, please contact Komatsu Mining Corp. Service with the drill serial number.			
ES_RC	R110902D1	· SWITCH, Ethernet (5-Port PoE)	1
08	R110903D1	· CARD, CompactFlash	1
09	R40118D69	· PLATE, Terminal Block, End or Intermediate	1
10	R40118D11	· STOP, End	6
CANM_RC	R95145D1	· MODULE, CAN Master	1
DI_RC	R110901D1	· MODULE, Digital Input	1
13	R40118D78	· BLOCK, Terminal (Ground)	3
14	R40118D71	· BLOCK, Terminal (Gray)	13
15	3631V004	· WASHER, Plain	11
16	0863V093	· SCREW, Pan Hd Mach	11
17	R111920D6	· CONNECTOR, Receptacle, 12-Pin	1
18	R111921D6	· CONNECTOR, Plug, 12-Pin	1
19	R111922D6	· WEDGE, 12-Pin Receptacle	1
20	R111923D6	· WEDGE, 12-Pin Plug	1
21	R84897D5	· PIN, Receptacle	12
22	R84897D6	· PLUG, Socket	12
23	R90651T16D99	· CABLE, 5-Pin, Single-Ended (Not Shown)	1
24	R111452D40	· CABLE, Ethernet (Not Shown)	2
RES1_RC	80Z986D21	· RESISTOR, 120Ω (Not Shown)	1
RES2_RC	80Z986D21	· RESISTOR, 120Ω (Not Shown)	1

TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY



TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY

TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY



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TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY

TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY

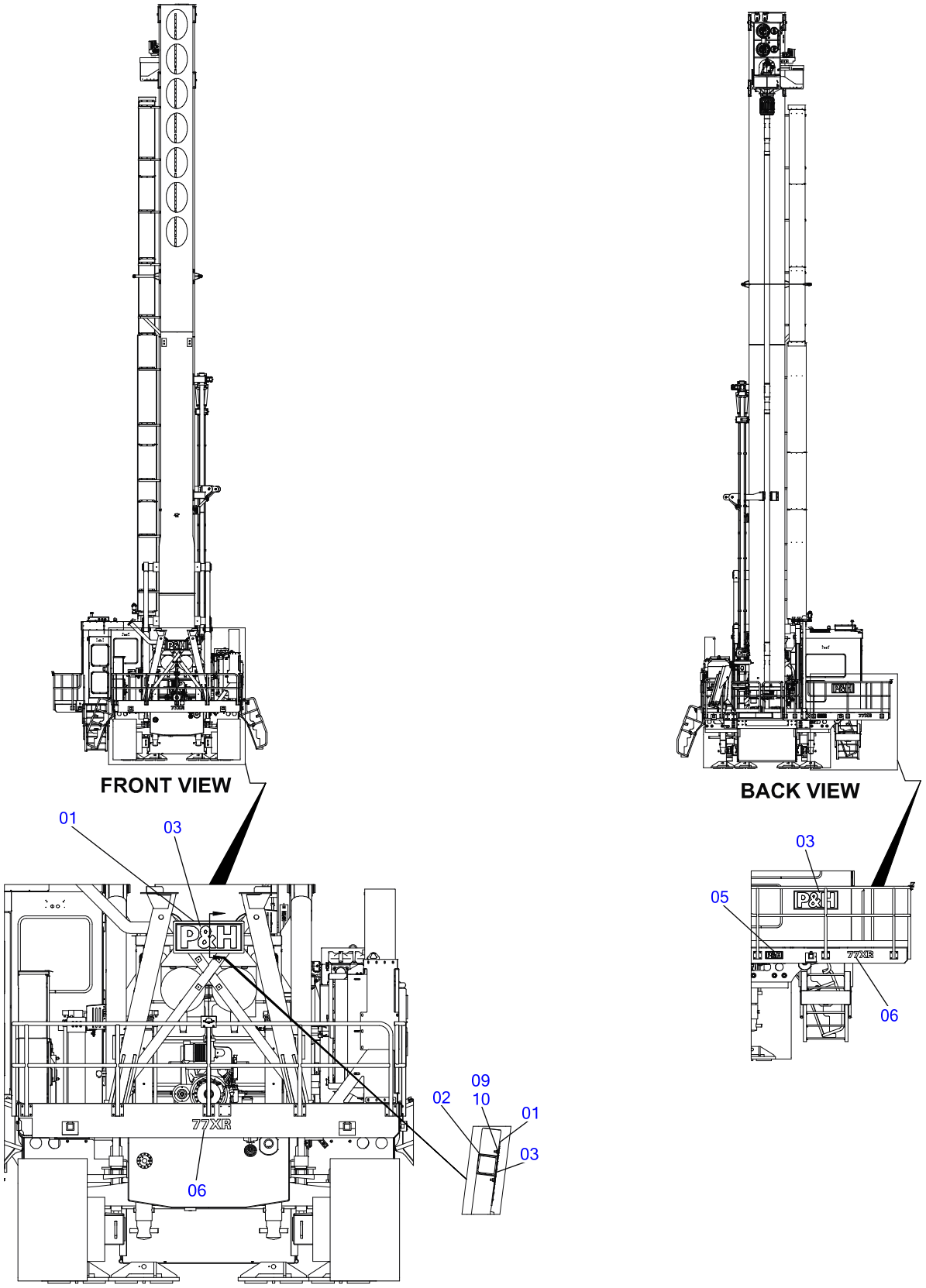
Item	Part No.	Description	Qty.	Unit	Page
	R110892F1	TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY			
01	R110893D1	· TRAY, Joystick Control - Remote Control	1		
02	R103719D2	· JOYSTICK ASSEMBLY, Left Hand	1		248
03	R103719D1	· JOYSTICK ASSEMBLY, Right Hand	1		247
04	R93799D3	· PLATE, Joystick Mounting	2		
05		NOT USED			
06	R95132D1	· BUTTON, Latch	2		
07	R97122D1	· LAMACOID, Drill Identifier	1		
08	R97122D2	· LAMACOID, Jackstand Raise/Lower Indicator	2		
09	R97122D3	· LAMACOID, Jack Label - Left	1		
10	R97122D4	· LAMACOID, Jack Label - Right	1		
11	R110907D1	· KEY, Switch	1		
12	R110907D2	· KEY, Switch	1		
13	R110907D3	· KEY, Switch	1		
14	R110907D4	· KEY, Switch	1		
15	R110918D1	· KEY, Collar	4		
16	R98406D1	· SWITCH, Rocker	4		
17	R96991D1	· CORD GRIP	2		
18	R90556D7	· KEYPAD	1		
19	R96843D1	· BEZEL, End	4		
20		NOT USED			
21	R105592D4	· GROMMET, ICOTEK	1		
22	R105592D5	· GROMMET, ICOTEK	1		
23	R96480D1	· CORD GRIP, ICOTEK	1		
24	R111010D1	· BUMPER, Rubber - Hard	2		
25	R4239848	· I-BUTTON, Read Head	1		
26	R120926D3	· TOUCHSCREEN	1		
27	R110905D1	· MOUNTING PLATE, Monitor	1		
28	R98630D1	· HINGE, Friction	4		
29	R111114D1	· HINGE, Friction - Surface Mount	4		
30	R57761D5	· RAIL, Mounting	1		
	500603575	· · RAIL, Mounting	?	Inch	
31	R40118D71	· BLOCK, Terminal (Gray)	30		
32	R40118D69	· PLATE, Terminal Block, End or Intermediate	5		
33	R40118D11	· STOP, End	2		
34	R111921D6	· CONNECTOR	1		
35	R111920D6	· CONNECTOR	1		
36	R111923D6	· WEDGE	1		
37	R111922D6	· WEDGE	1		
38	R90651T15D99	· CABLE (Not Shown)	1		

KOMATSU

TELE-OP, MOBILE CONTROL CASE - TRAY ASSEMBLY

Item	Part No.	Description	Qty.	Unit	Page
39	R84897D6	· PLUG, Socket	12		
40	R84897D5	· PIN, Receptacle	12		
41	R96988D1	· THD INSERT	5		
42	3631V004	· WASHER, Plain	19		
43	3631V003	· WASHER, Plain	2		
44	R112930D54	· SCREW, Flathead	8		
45	0837V060	· SCREW	17		
46	R73246D4	· SCREW, Button Hd	8		
47	0844M04012	· SCREW	4		
48	0836V068	· SCREW	2		
49	0836V063	· SCREW	12		
50		NOT USED			
51	0830V011	· SCREW, Socket Hd Cap	8		
52	2137V005	· NUT, Hex	28		
53	2136V004	· NUT, Hex	10		
54		NOT USED			
55	R105592D6	· GROMMET, ICOTEK	1		
56	0836V055	· SCREW, Fil Hd	2		
57	0683M04003	· SCREW, Hex Socket Cup Point Set	2		

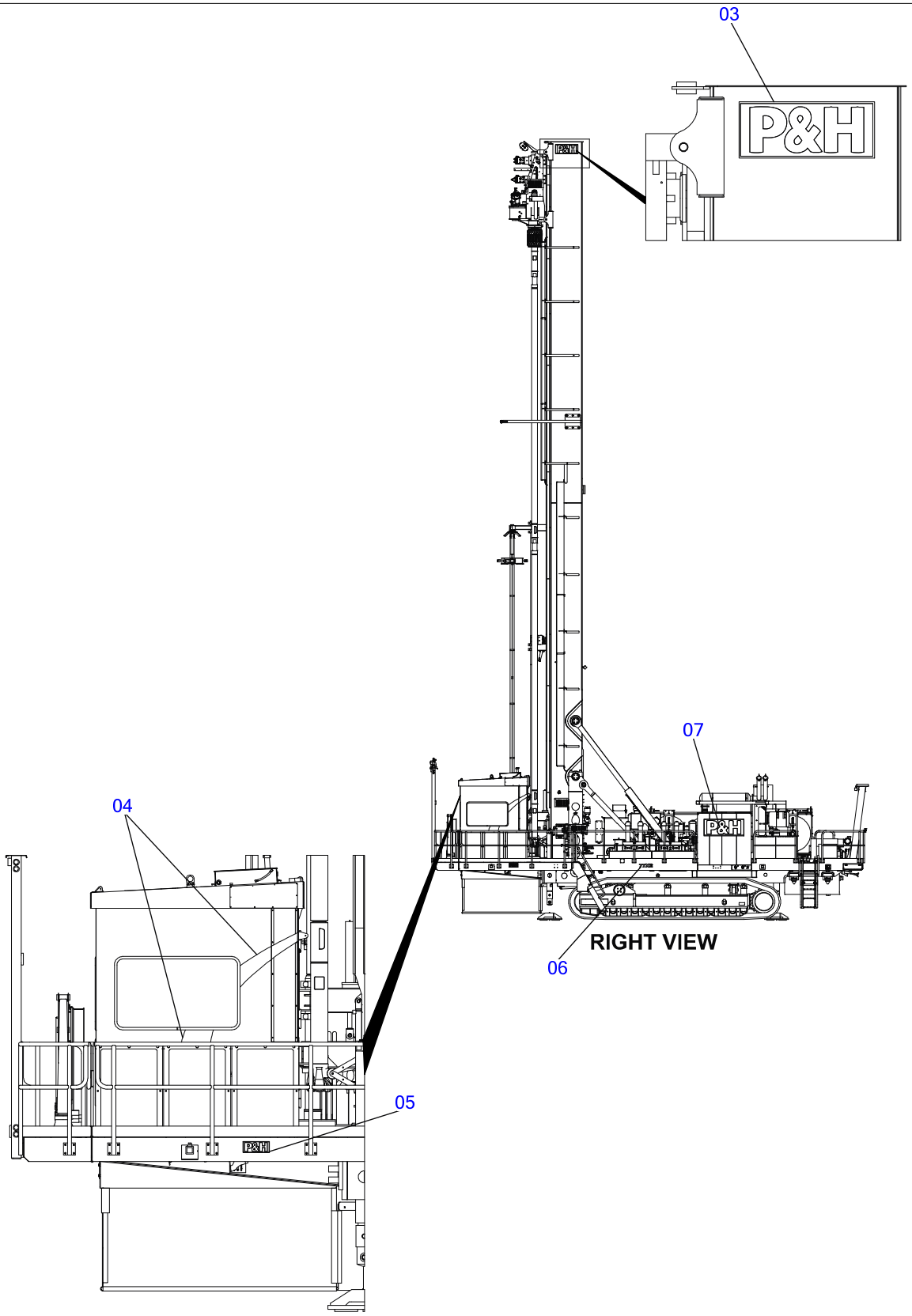
DECAL INSTALLATION, PH77XR



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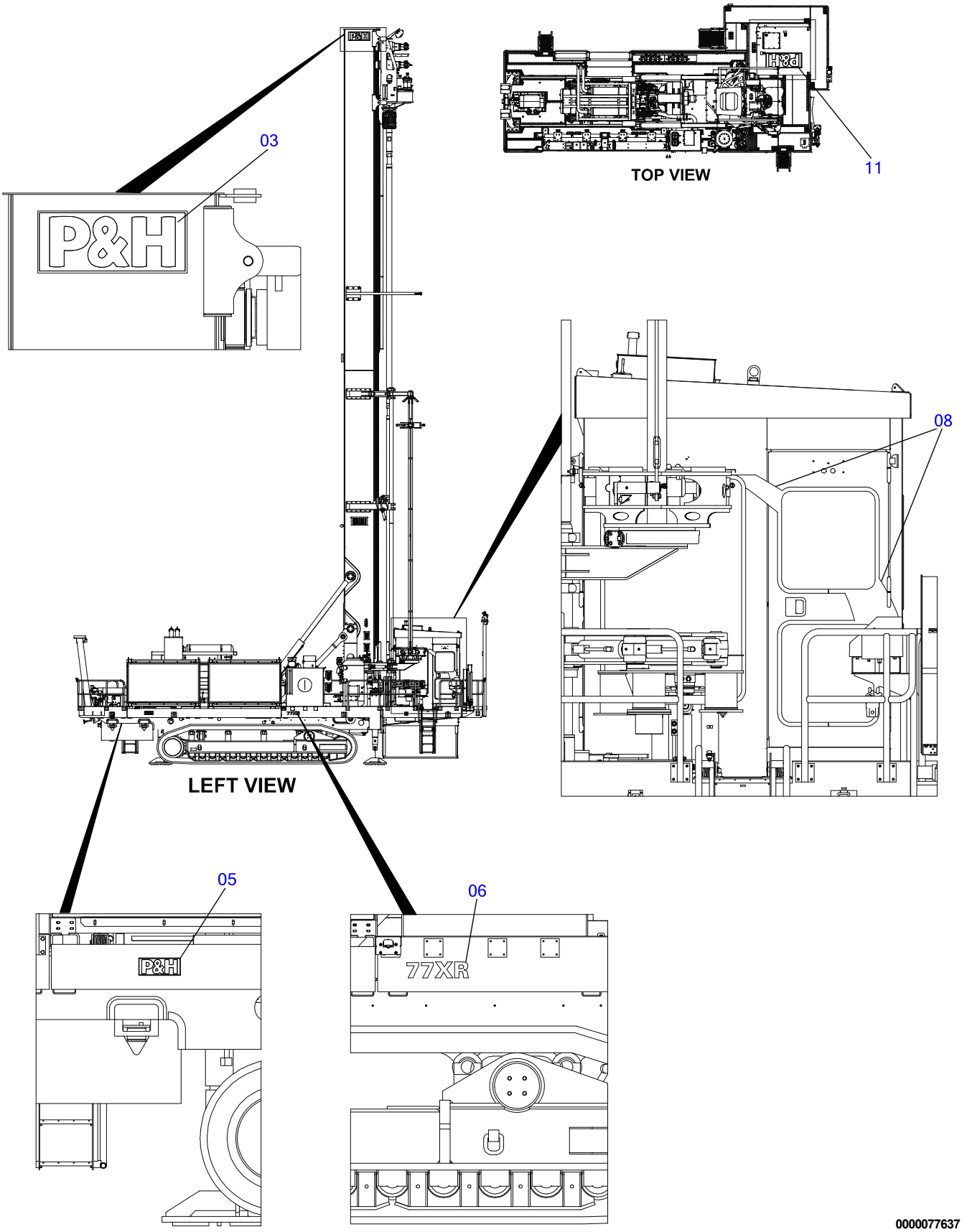
DECAL INSTALLATION, PH77XR

DECAL INSTALLATION, PH77XR



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DECAL INSTALLATION, PH77XR



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DECAL INSTALLATION, PH77XR

DECAL INSTALLATION, PH77XR

Item	Part No.	Description	Qty.
	R100499F1	DECAL INSTALLATION, PH77XR	
01	R100513D1	· WELDMENT, Decal Mount	1
02	R100514D1	· BRACKET, Decal Mount	2
03	R108250D4	· DECAL, P&H Trademark	4
04	R89996D1	· DECAL, Blue Swoosh - Right	1
05	R108250D1	· DECAL, P&H Trademark	3
06	R89999D1	· DECAL, P&H 77XR	4
07	R108250D7	· DECAL, P&H Trademark	1
08	R89994D1	· DECAL, Blue Swoosh - Left	1
09	3612M008	· WASHER, Plain	4
10	2104M008	· NUT, Hex	4
11	R108250D9	· DECAL, P&H Trademark	1