



P&H MINING EQUIPMENT
A Joy Global Inc. Company

Machine
Serial Number: 4184

4100A ELECTRIC SHOVEL





4100A ELECTRIC SHOVEL

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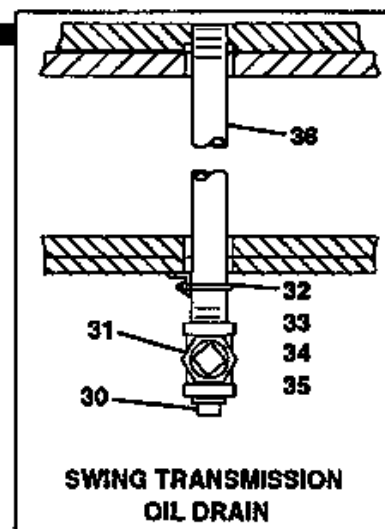
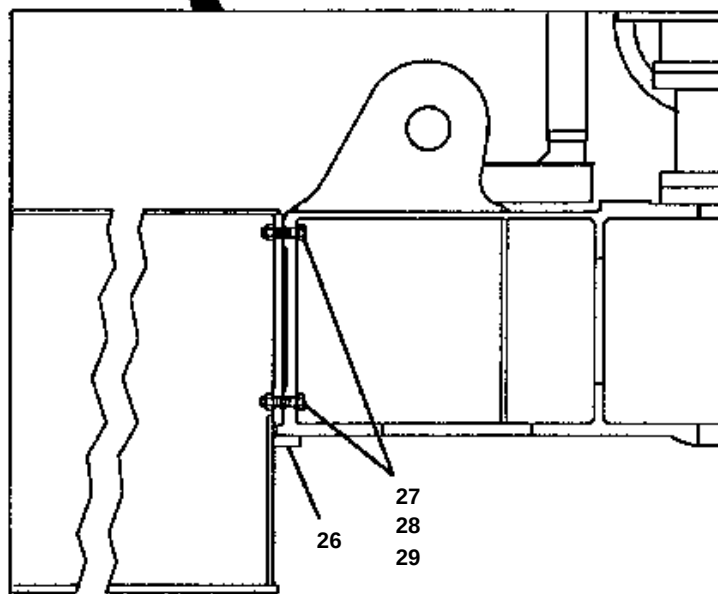
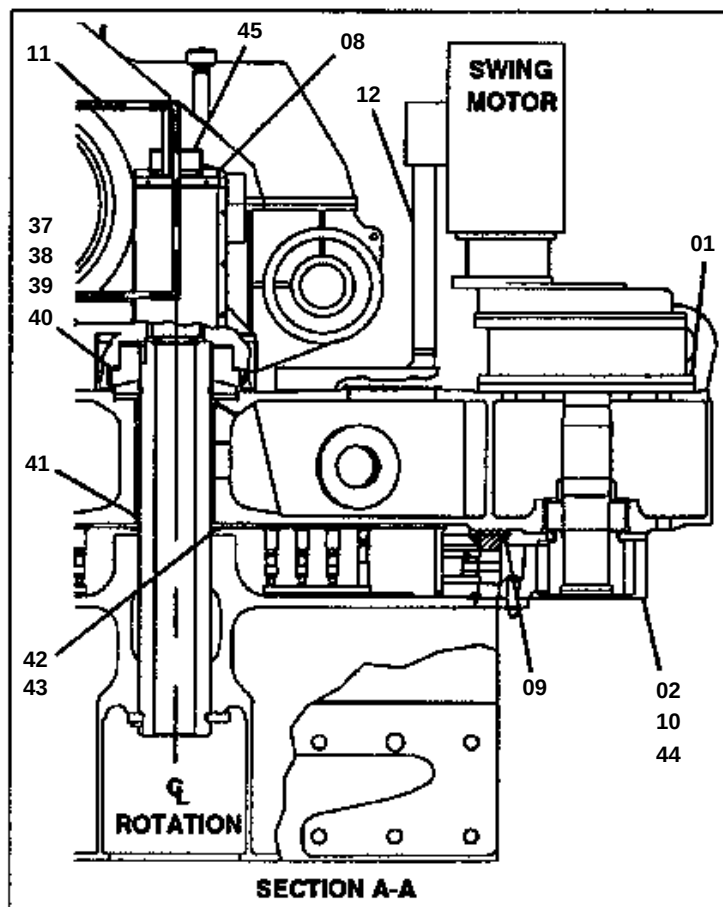
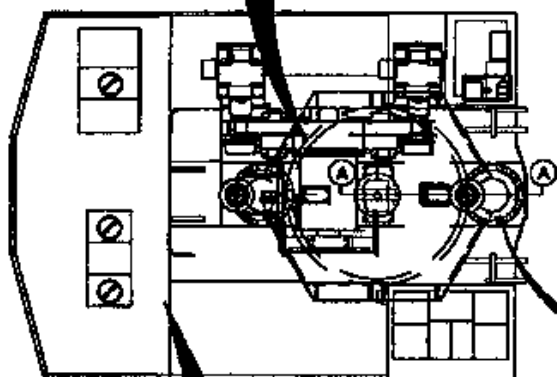
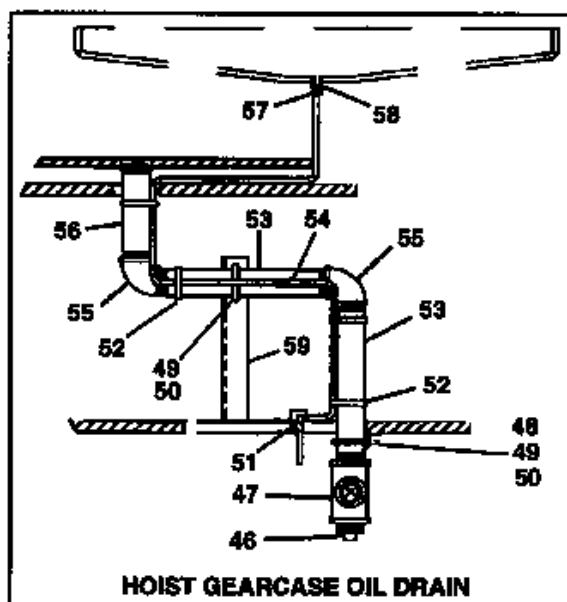
Group 1 - Sheet Metal

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FIG. 1



UPPER FINAL ASSEMBLY



F2681A



UPPER FINAL ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	922J142F6	UPPER FINAL ASSEMBLY		
01	0630V163	• SCREW, Socket Hd Cap 1-8UNC x 6-1/2 in	70	
	0630V131	• SCREW, Socket Hd Cap 3/4-10UNC x 6 in	2	
02	R7219D2	• GUARD, Swing Pinion	2	
03	R25823F6	• CABLE TUGGER INSTALLATION	1	1-2
(NOTE: This item is not included with 922J142F6)				
04	14P3474D1	• COVER ASSY, Rear	1	
05	20Z1703D67	• • SCREW, Flanged Lock 3/8-16UNC x 3/4 in. (Not shown)	8	
06	16N3734D1	• • ANGLE, Punched	2	
07	16N3734D2	• • ANGLE, Punched	2	
08	914J403F2	• COVER ASSY, Low-voltage Collector	1	1-4
09	R34748F1	• TRACK ASSY, Roller	1	3-17
10		NOT USED		
11	914J402F3	• GUARD ASSY, Hoist Drum	1	1-5
12	R14269F1	• TROUGH INSTALLATION, Wiring	1	1-6
13	932P41F1	• PLATE ASSY, Serial Number	1	
14		NOT USED		
15		NOT USED		
16		NOT USED		
17		NOT USED		
18		NOT USED		
19	14T2010	• COVER, Lifting Hole	2	
20	14J1727F1	• GUARD ASSY, Hoist Coupling	2	
21	16N3348D127	• • ANGLE, Mounting (Not shown)	2	
22	16N3348D128	• • ANGLE, Mounting (Not shown)	2	
23	20Q260D327	• • SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in (Not shown)	6	
24	20Q270D32	• • NUT, Hex 1/2-13UNC (Not shown)	6	
25	3616V011	• • WASHER, Lock 1/2 in (Not shown)	6	
26	36-922J142	• FLAT, 5/8 x 1-1/2 x 175 in	AR	
27	20Q259D687	• SCREW, Hex Hd Cap 1-1/2--6UNC x 5-1/2 in	18	
28	20Q271D96	• NUT, Hex 1-1/2--6UNC	18	
29	18Z694D14	• WASHER, Hardened 1-1/2 in	18	
--		• DRAIN, Swing		9-15
30		NOT USED		
31		NOT USED		
32		NOT USED		



UPPER FINAL ASSEMBLY

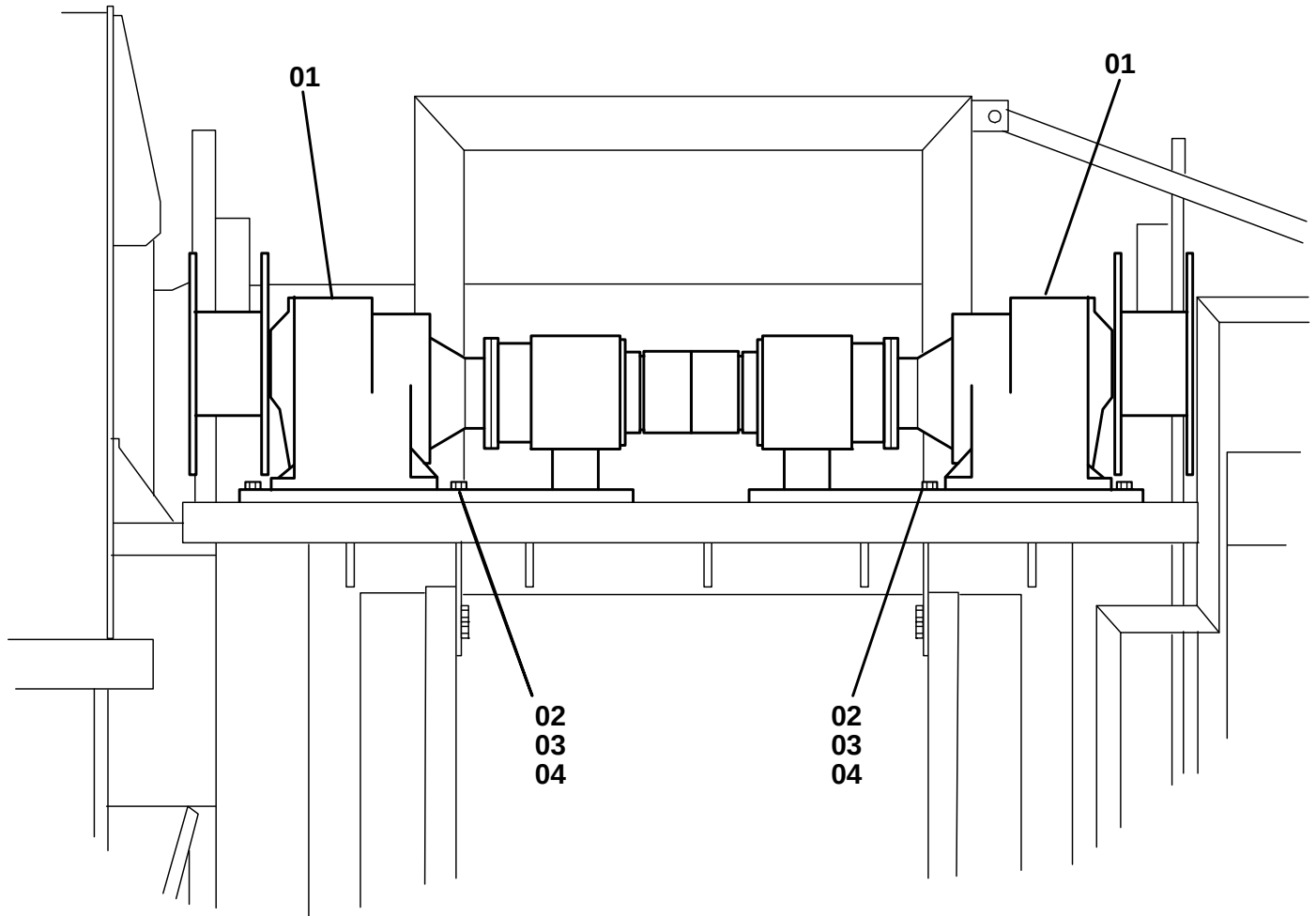
REF	PART NO.	DESCRIPTION	QTY	PAGE
33		NOT USED		
34		NOT USED		
35		NOT USED		
36		NOT USED		
37	14P2179	• GUARD, Center Gudgeon Nut	1	
38	18P3400	• RETAINER, Grease	1	
39	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	25	
40	3616V011	• WASHER, Lock 1/2 in	25	
41	18Z479D80	• SEAL, Grease (Solid)	1	
42	18T17765	• RETAINER, Seal	1	
43	20Z1703D50	• SCREW, Flanged Lock 5/16-18UNC x 5/8 in	8	
NOTE: Ref 41, 42, 43 "Split Seal" Field Replacement Kit P/N R36723F1.				
44	20Z1703D97	• SCREW, Flanged Lock 1/2-13UNC x 1 in	8	
45	R12077F2	• SWIVEL, Air and Grease	1	3-18
--		• DRAIN, Hoist		9-15
46		NOT USED		
47		NOT USED		
48		NOT USED		
49		NOT USED		
50		NOT USED		
51		NOT USED		
52		NOT USED		
53		NOT USED		
54		NOT USED		
55		NOT USED		
56		NOT USED		
57		NOT USED		
58		NOT USED		
--		NOTE--The following items are not shown:		
	919J40F1	• MOUNTING PIN ASSY, Hoist Gear Case	1	4-2
	919J40F2	• MOUNTING PIN ASSY, Hoist GearCase	1	4-3
	100N3200F1	• WEDGE ASSY, Hoist Gear Case	1	
	18T17892	• • PLATE, Wedge	2	
	18T17893	• • PLATE, Keeper	2	
	944P24F1	• PIPING, Lubrication, Cabinet Blower	1	9-14
	R14960F1	• ELECTRICAL MATERIAL, Miscellaneous, Revolving Frame	1	

UPPER FINAL ASSEMBLY

[illegible]



CABLE TUGGER INSTALLATION, HOIST



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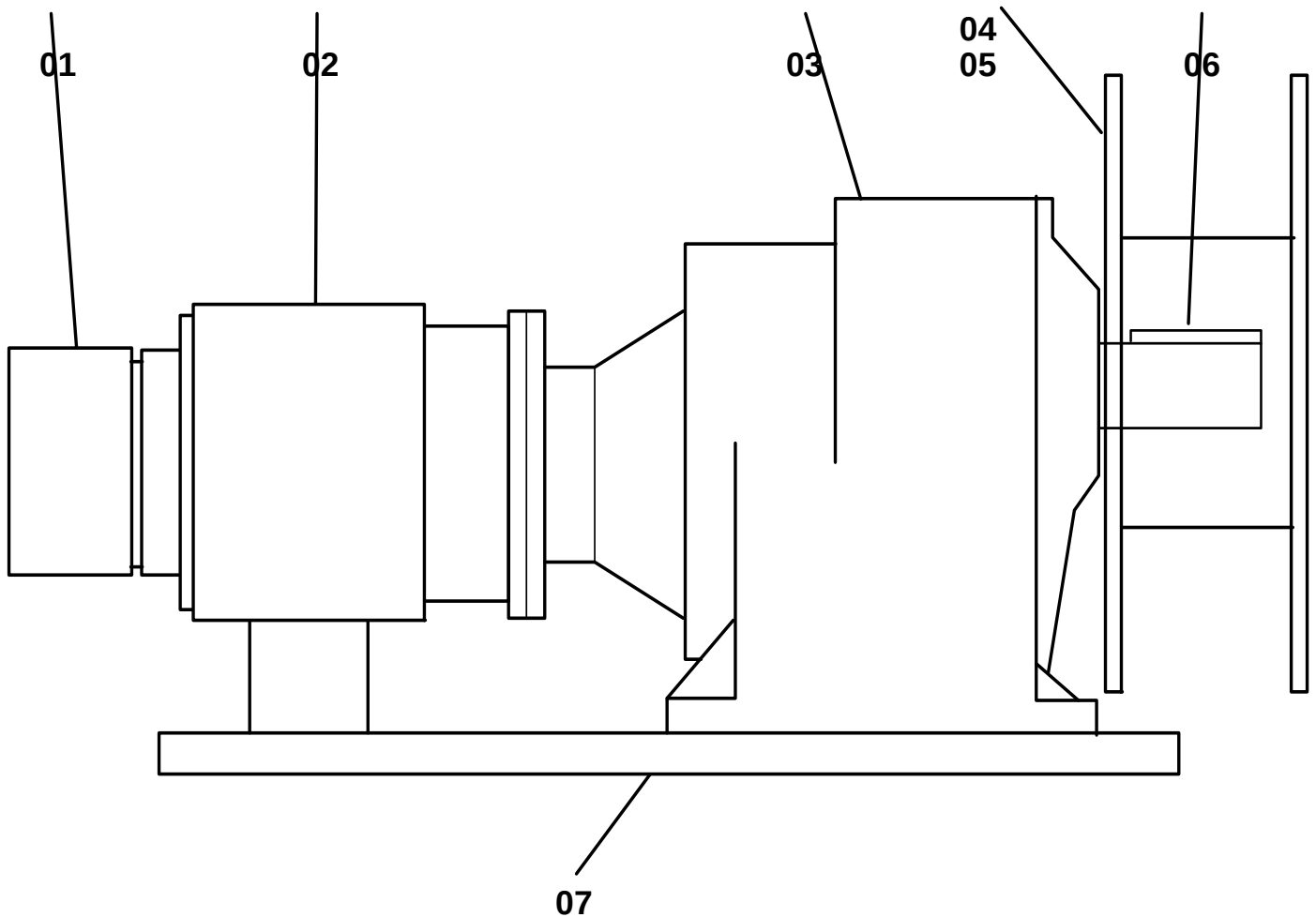
Machine
Serial Number: **4184**

CABLE TUGGER INSTALLATION, HOIST

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CABLE TUGGER



F6546



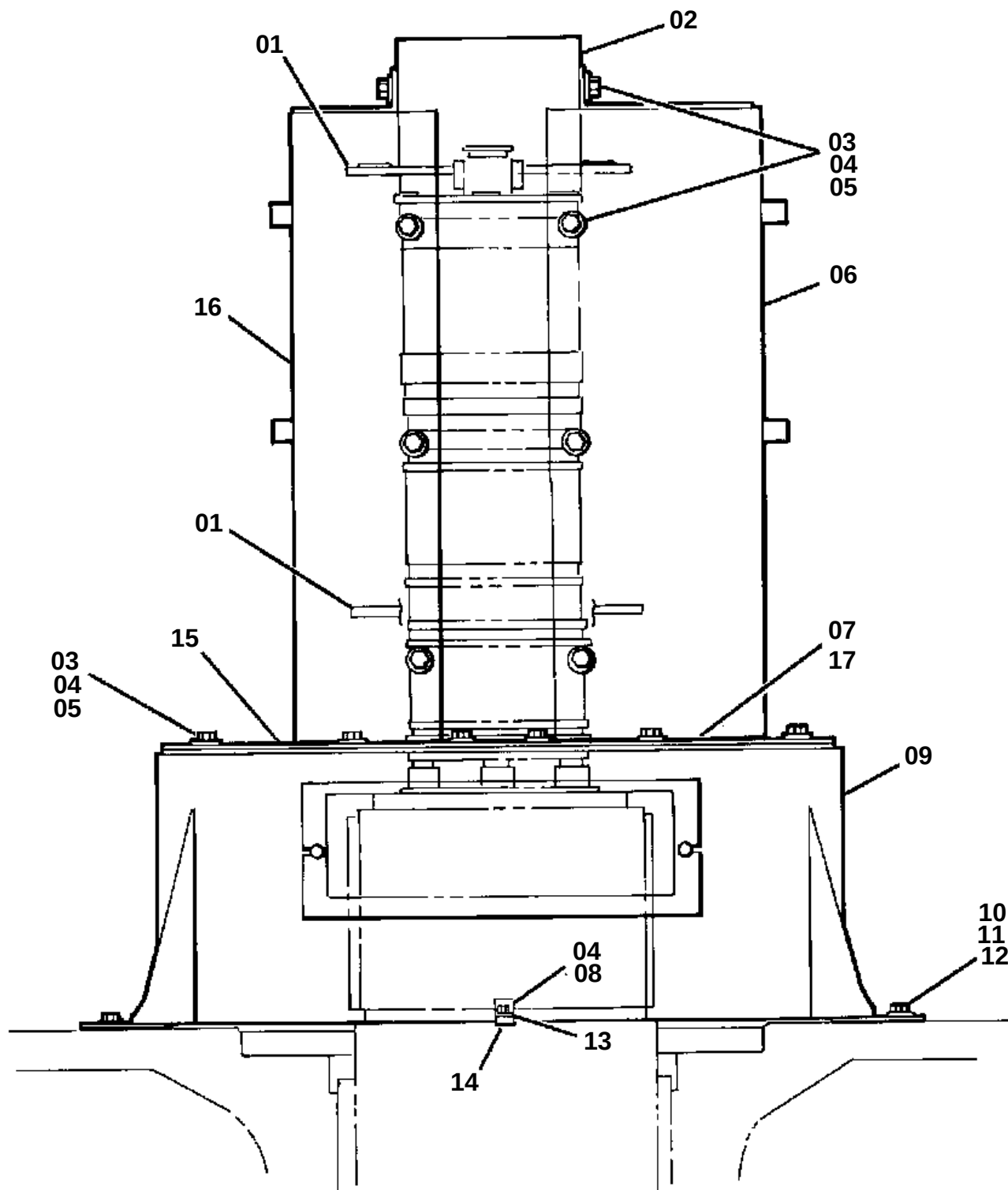
Machine
Serial Number: **4184**

CABLE TUGGER

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COVER ASSEMBLY, LOW - VOLTAGE COLLECTOR



F1703



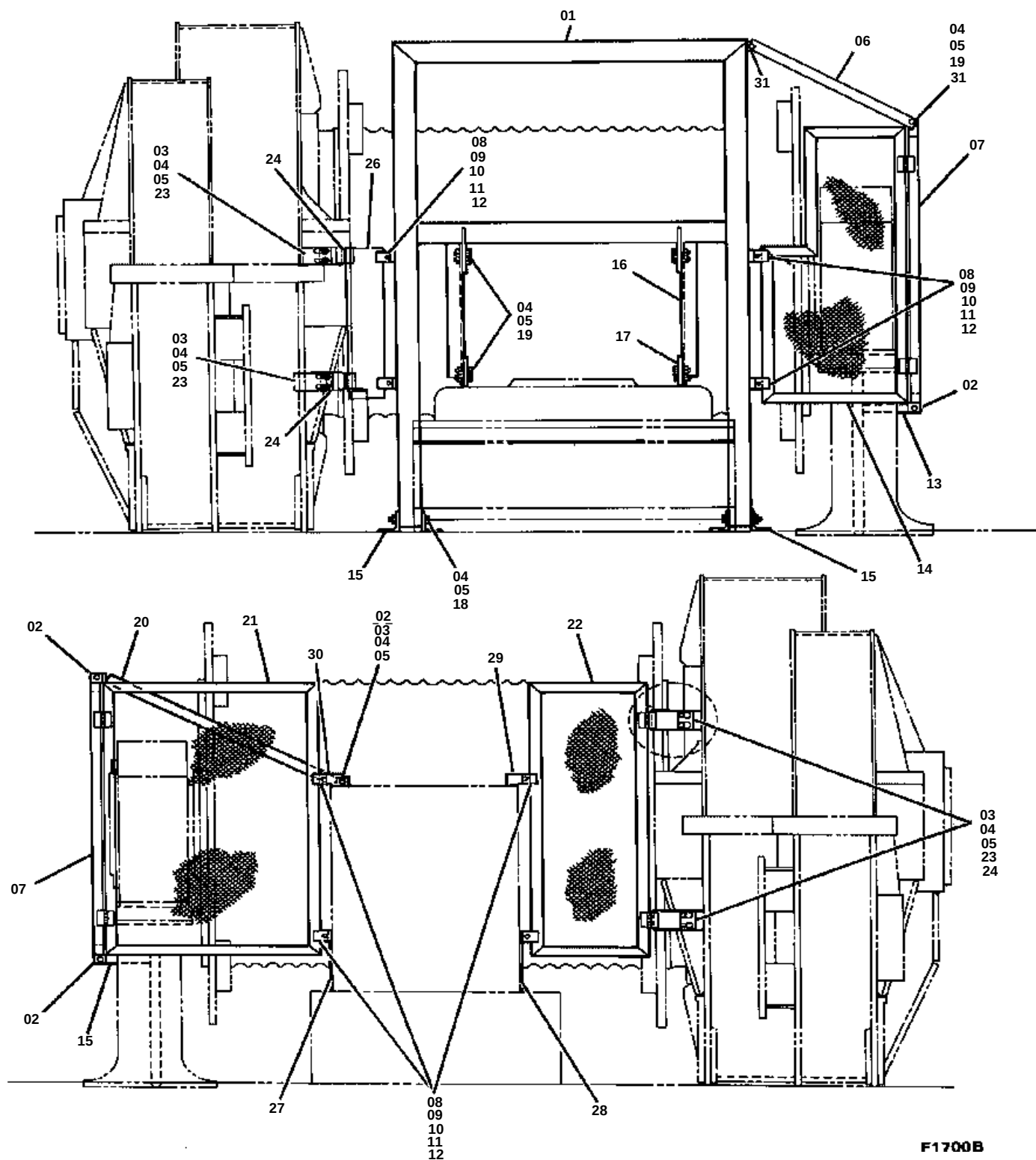
Machine Serial Number: **4184**

COVER ASSEMBLY, LOW - VOLTAGE COLLECTOR

REF	PART NO.	DESCRIPTION	QTY
	914J403F2	COVER ASSEMBLY, LOW-VOLTAGE COLLECTOR	
01	18T17859	• KEEPER	8
02	14J1721	• COVER, Center	1
03	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in lg	28
04	3616V011	• WASHER, Lock 1/2 in	30
05	3632V006	• WASHER, Plain 1/2 in	28
06	14J1723D2F1	• COVER, Right side	1
07	14N2862D2	• BASE, Right cover	1
08	20Q260D325	• SCREW, Hex Hd Cap 1/2-13UNC x 1 in lg	2
09	16J1507D2F1	• COVER, Gudgeon nut	1
10	20Q260D445	• SCREW, Hex Hd Cap 3/4-10UNC x 1-1/4 in lg	4
11	3616V015	• WASHER, Lock 3/4 in	4
12	3632V009	• WASHER, Plain 3/4 in	4
13	18T9427	• ANGLE	2
14	16T3393	• PAD, Mounting	2
15	14N2862D1	• BASE, Left cover	1
16	14J1722F1	• COVER, Left side	1
17	14N2862D3	• BASE, Right Cover	1



GUARD ASSEMBLY, HOIST DRUM



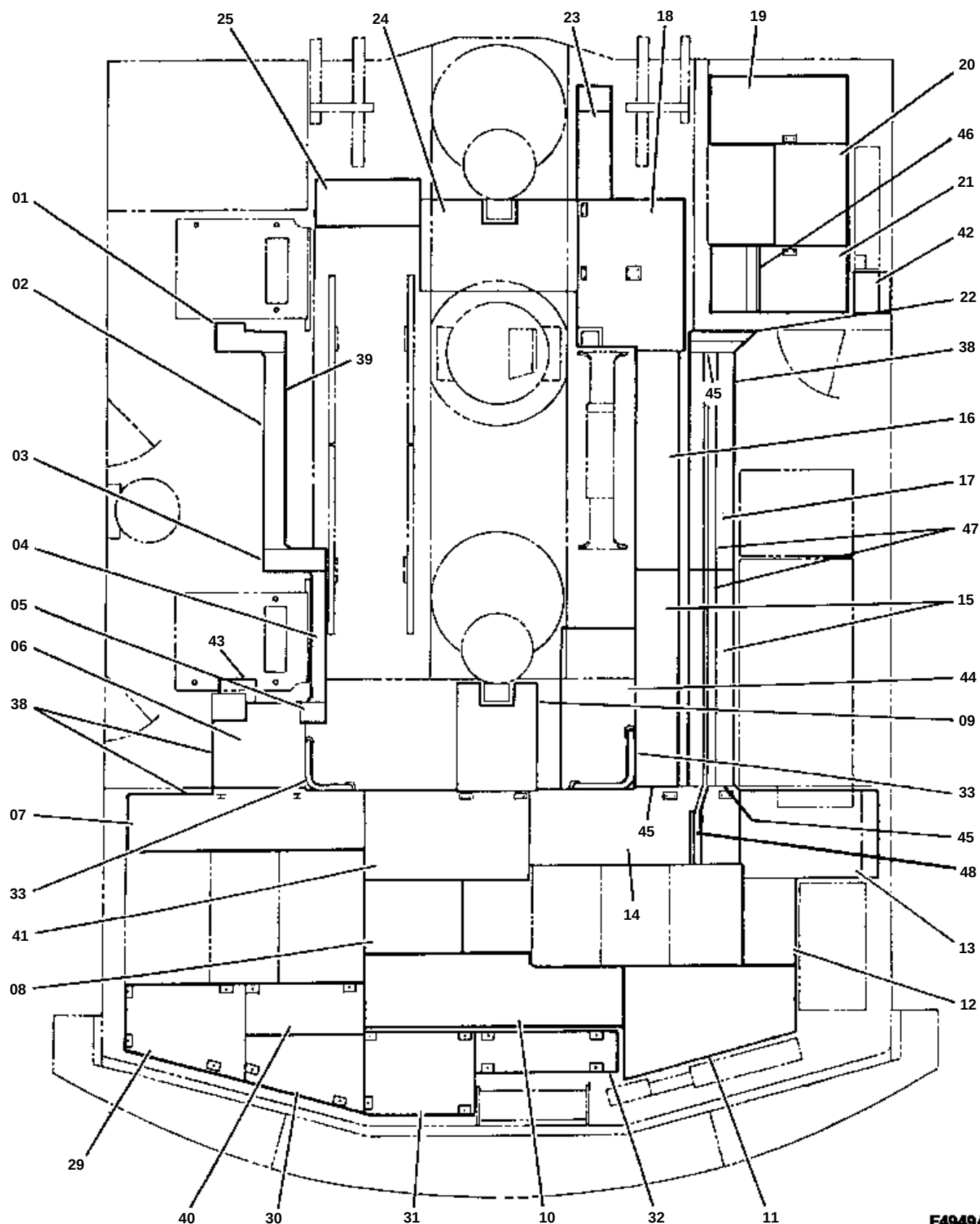


GUARD ASSEMBLY, HOIST DRUM

REF	PART NO.	DESCRIPTION	QTY
	914J402F3	GUARD ASSEMBLY, HOIST DRUM	
01	R24354D1	• SUPPORT, Rope Tugger	1
02	16N3348D134	• ANGLE, Mounting	4
03	20Q260D446	• SCREW, Hex Hd Cap 3/4-10UNC x 1-1/2 in	10
04	20Q270D48	• NUT, Hex 3/4-10UNC	24
05	3643V016	• WASHER, Lock 3/4 in	24
06	P&H Spec 139	• ANGLE, 1-3/4 x 1-3/4 x 1/4 x 38 in	AR
07	714N30	• GUARD, 100 in wide	1
08	16N3348D32	• ANGLE, Mounting	2
09	718N228D51	• PLATE, Mounting	6
10	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	8
11	20Q270D32	• NUT, Hex 1/2-13UNC	8
12	3643V013	• WASHER, Lock 1/2 in	8
13	P&H Spec 139	• ANGLE, 1-3/4 x 1-3/4 x 1/4 x 10-1/4 in	AR
14	714N32	• GUARD, 24-1/2 in wide	1
15	16P7127D1	• ANGLE, Mounting	4
16	R25805D1	• ANGLE, Mounting	2
17	716T84	• BRACKET	2
18	20Q260D461	• SCREW, Hex Hd Cap 3/4-10UNC x 6 in	4
19	20Q260D448	• SCREW, Hex Hd Cap 3/4-10UNC x 2 in	10
20	16T9231	• ANGLE, Mounting	1
21	714N31D2	• GUARD, 37 in wide	1
22	714N31D1	• GUARD, 18 in wide	1
23	16N3612D1	• ANGLE, Mounting	1
24	16T9403D1	• PLATE, Mounting	2
25	16N3612D2	• PLATE, Mounting	1
26		NOT USED	
27	16N3642D1	• BRACKET, Mounting	1
28	16N3642D2	• BRACKET, Mounting	1
29	16N3643D1	• BRACKET, Mounting	1
30	16N3643D2	• BRACKET, Mounting	1
31	718N228D30	• PLATE, Mounting	2

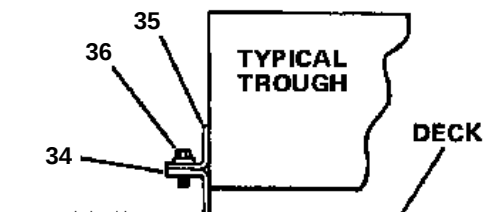
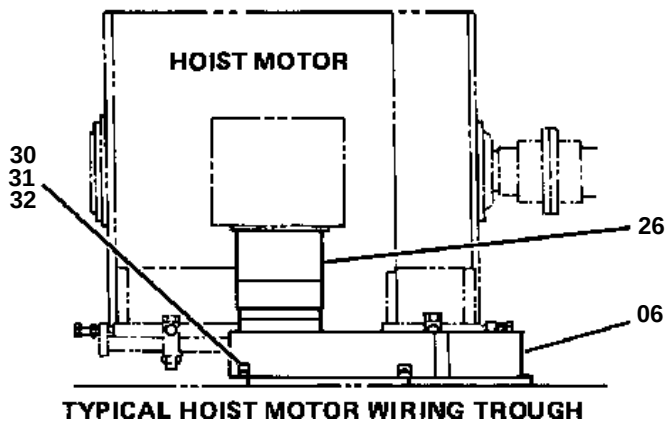
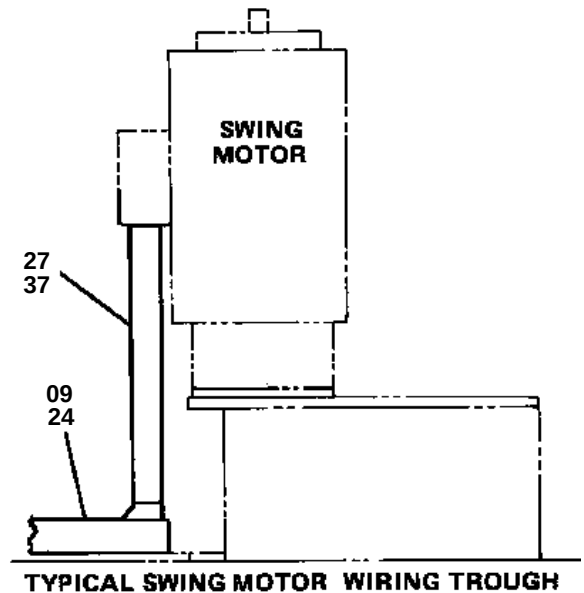
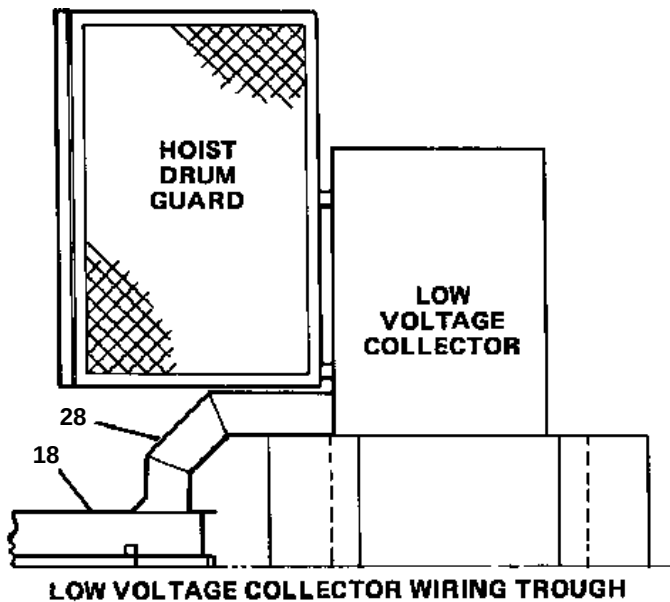


TROUGH INSTALLATION, WIRING



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TROUGH INSTALLATION, WIRING



F2362



TROUGH INSTALLATION, WIRING

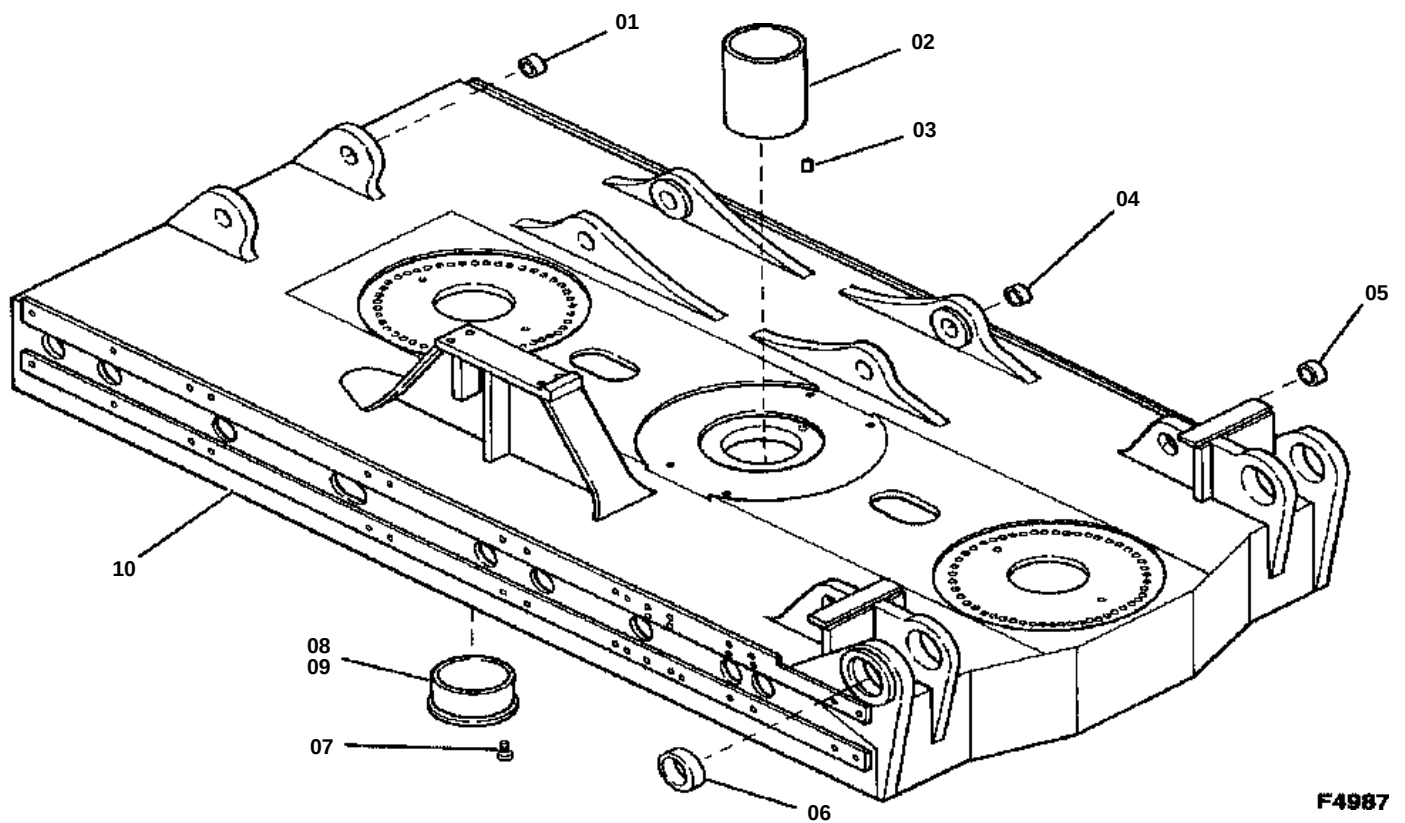
REF	PART NO.	DESCRIPTION	QTY
	R14269F1	TROUGH INSTALLATION, WIRING	
01	87J222F1	• TROUGH, Wiring	1
02	87J223F1	• TROUGH, Wiring	1
03	87J224F1	• TROUGH, Wiring	1
04	87J225F1	• TROUGH, Wiring	1
05	87J226	• TROUGH, Wiring	1
06	87J227F1	• TROUGH, Wiring	1
07	87J229F1	• TROUGH, Wiring	1
08	87J231F1	• TROUGH, Wiring	1
09	87J233F1	• TROUGH, Wiring	1
10	87J259F1	• TROUGH, Wiring	1
11	87J261F1	• TROUGH, Wiring	1
12	87J239F1	• TROUGH, Wiring	1
13	87J241F1	• TROUGH, Wiring	1
14	87J243F1	• TROUGH, Wiring	1
15	87J245F1	• TROUGH, Wiring	2
16	87J245F2	• TROUGH, Wiring	1
17	87J245F3	• TROUGH, Wiring	1
18	87J247F1	• TROUGH, Wiring	1
19	R2572F1	• TROUGH, Wiring	1
20	87J273F1	• TROUGH, Wiring	1
21	R2574F1	• TROUGH, Wiring	1
22	87J277F1	• TROUGH, Wiring	1
23	R14046F1	• TROUGH, Wiring	1
24	87J279F1	• TROUGH, Wiring	1
25	87J281F1	• TROUGH, Wiring	1
26	87J283F1	• TROUGH, Wiring	2
27	87J284F1	• TROUGH, Wiring	2
28	87J285F1	• TROUGH, Wiring	1
29	87J309F1	• FLOOR, False	1
30	87J267F1	• FLOOR, False	1
31	87J311F1	• FLOOR, False	1
32	87J312F1	• FLOOR, False	1
33	11J3815F1	• RAIL	2
34	16T7657	• SUPPORT	125
35	16T7658	• CLIP	125
36	20Z1703D67	• SCREW, Flanged Lock 3/8-16UNC x 3/4 in	125

TROUGH INSTALLATION, WIRING

REF	PART NO.	DESCRIPTION	QTY
37	20Z1876D72	· SCREW, Self Tapping	24
38	32Z2536D1	· TAPE, Warning	1
39	P&H Spec 144	· FLAT, 1/4 x 6 x 2 in	20
40	87J268F1	· FLOOR, False	1
41	87J231F2	· TROUGH, Wiring	1
42	87J336F1	· TROUGH, Wiring	1
43	87J352	· TROUGH, Wiring	1
44	R4230D1	· COVER, Trough	1
45	R4231D1	· COVER, Trough	3
46	R7230D1	· TROUGH, Wiring	1
47	R7231D1	· TROUGH, Wiring	2
48	R7232D1	· TROUGH, Wiring	1



FRAME, REVOLVING



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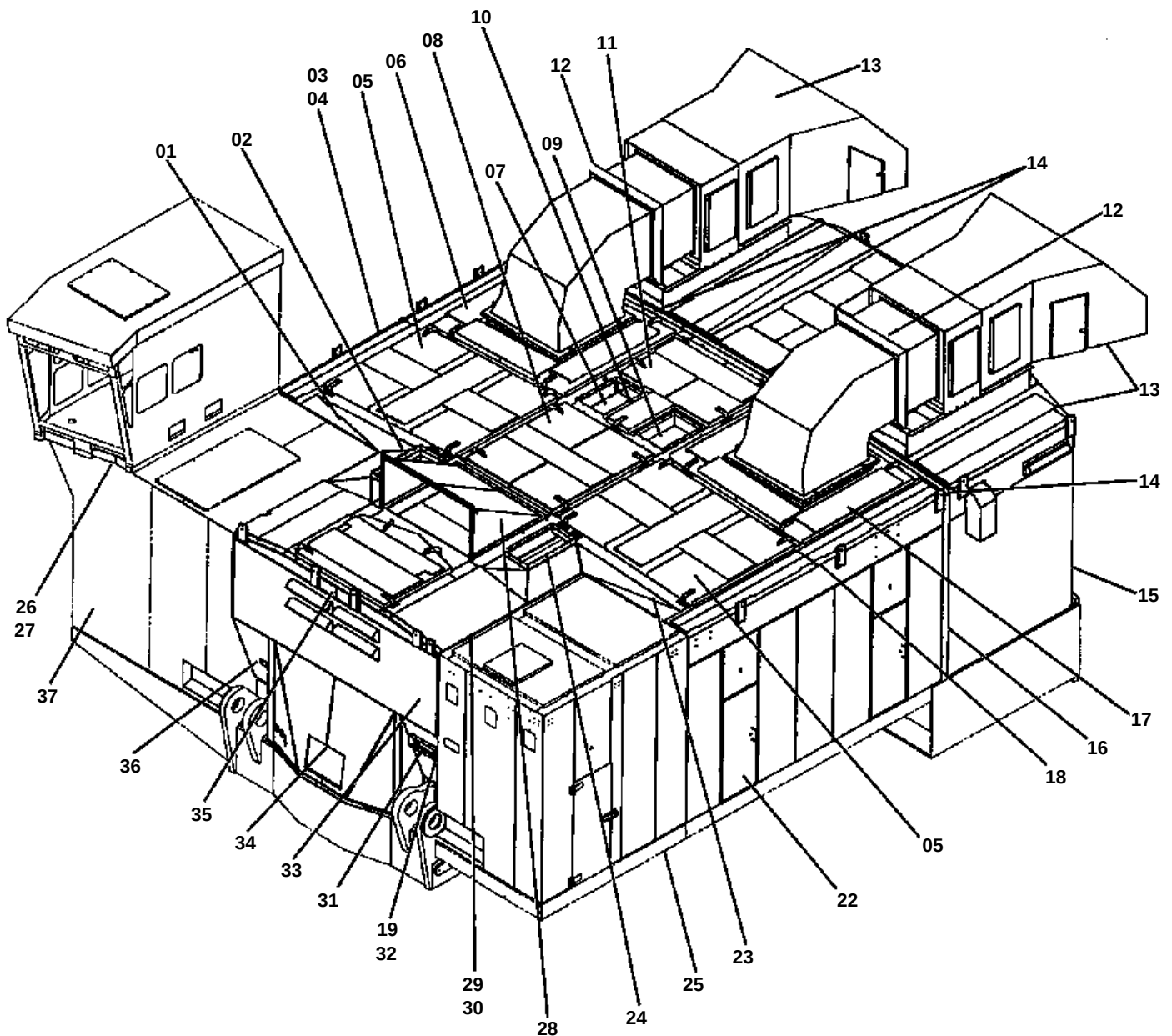
Machine Serial Number: **4184**

FRAME, REVOLVING

REF	PART NO.	DESCRIPTION	QTY
	22J1766D9F1	FRAME, REVOLVING	
01	5T3375D5C1	• BUSHING, Rear Gantry Lug	2
02	5N15	• BUSHING, Center Gudgeon	1
03	19F79D92	• PIN, Dowel 1-1/2 in dia x 3 in	2
04	5T3374	• BUSHING, Hoist Lug	4
05	5T3375D4C1	• BUSHING, Front Gantry Lug	2
06	5T3378	• BUSHING, Boom Lug	4
07	20Z1221D6	• SCREW, Soc Hd Set 3/4-10UNC x 1-1/2 in	4
08	25N733	• CAPSULE, Swing Hub	2
09	21Z516D9	• ADHESIVE	1
10	22J1766D9	• FRAME, Revolving	1



SHEET METAL, UPPER



F6590B



SHEET METAL, UPPER

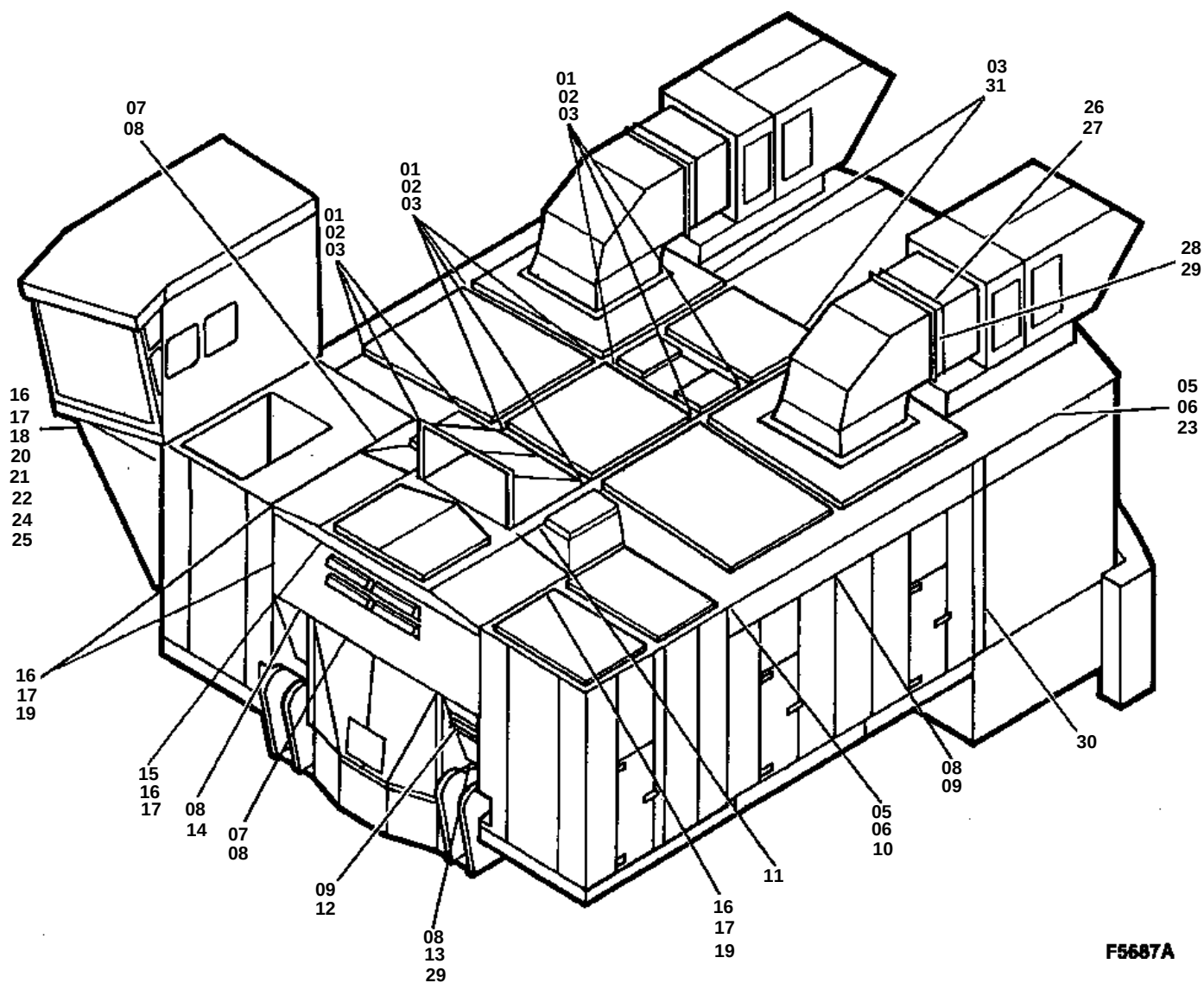
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R12554F1	SHEET METAL, UPPER		
01	R12101D1	· ROOF SECTION, Front Right Hand	1	
02	927J555F5	· BOOT, Gantry - Front R.H.	1	1-15
03	927J549F1	· SHEET METAL, Side Walls - R.H.	1	1-17
04	R11950D3	· BEAM, Side - Right Hand	1	
05	R12315F1	· HATCH COVER, Side - Front	2	
06	R11776F1	· HATCH COVER, Side - Rear Right Hand	1	
07	927J556F1	· BOOT, Gantry - Rear R.H.	1	1-13
08	27J3154F2	· COVER, Hatch	1	
09	927J556F2	· BOOT, Gantry - Rear L.H.	1	1-14
10	R16916D1	· FRAME, Rear	1	
11	R16835F1	· HATCH COVER, Center - Rear	1	
12	R12265D1	· DUCT, Transition	2	
13	R10667F1	· REAR ROOF AND PRESSURIZER	1	1-11
14	R11739D1	· SEAL, Extruded	1	
15	927J613F1	· ENCLOSURE, Rear (W/O Doors)	1	1-10
16	R13452D1	· COVER, Flex Joint	2	
17	R11776F2	· HATCH COVER, Side - Rear - Left Hand	1	
18	R11950D2	· BEAM, Side - Left Hand	1	
19	R1342D1	· SHIM, Machinery House	2	
20	R1342D3	· SHIM, Machinery House (Not Shown)	2	
21	R1342D4	· SHIM, Machinery House (Not Shown)	2	
22	927J549F2	· SHEET METAL, Side Walls - L.H.	1	1-18
23	R12101D2	· ROOF SECTION, Front Left Hand	1	
24	927J555F6	· BOOT, Gantry - Front L.H.	1	1-16
25	27J3151D1F1	· ROOM, L.H., Extension	1	1-19
26	27P4322D1	· SPACER, Operating Cab, Mounting	2	
27	27P4201D1	· SPACER, Operating Cab, Mounting	3	
28	27J3158	· HOOD, Hoist Cable Opening	1	
29	R1342D5	· SHIM, Machinery House	1	
30	R1342D6	· SHIM, Machinery House	1	
31	27J3185F3	· BOOM FOOT ENCLOSURE, Left Hand	1	
32	R1342D2	· SHIM, Machinery House	2	
33	R12555D1	· FRONT ENCLOSURE, Upper Section	1	
34	27J3186D1F2	· FRONT ENCLOSURE, Lower Section	1	
35	27J3129D1F1	· ARCH, Canopy	1	
36	27J3174D2F1	· BOOM FOOT ENCLOSURE, Right Hand	1	

SHEET METAL, UPPER

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	R29780F1	· ROOM, R.H.	1	1-20
The following items are not shown:				
--	27J3111	· BEAM, Front	1	
	R11740D1	· BEAM, Rear	1	
	R11703D1	· BEAM, Center R.H.	1	
	R11703D2	· BEAM, Center L.H.	1	
	R12260D1	· BEAM, Center to Side (Front R.H.)	1	
	R12260D2	· BEAM, Center to Side (Front L.H.)	1	
	R12661D1	· BEAM, Center to Side (Rear R.H.)	1	
	R12661D2	· BEAM, Center to Side (Rear L.H.)	1	
	R11409D1	· BRACE, Sway, Front R.H.	1	
	R13476D1	· BRACE, Sway, Front L.H.	1	
	27J3426D1	· BRACE, Sway, Rear	2	
	R25754D1	· SHIM, Front, Enclosure	2	
	21Z761	· ADHESIVE	AR	
	32Z1806	· SEALANT, Weather	AR	
	R1264D1	· SEALANT, Weather Strip	AR	
	R1264D2	· SEALANT, Weather Strip	AR	
	R13813F1	· INSTALLATION, Weather Stripping	AR	
	R13813F2	· INSTALLATION, Weather Stripping	AR	
	R13814D1	· WEATHER STRIP, Rear	AR	
	R13814D2	· WEATHER STRIP, R.H.	AR	
	R13814D3	· WEATHER STRIP, L.H.	AR	

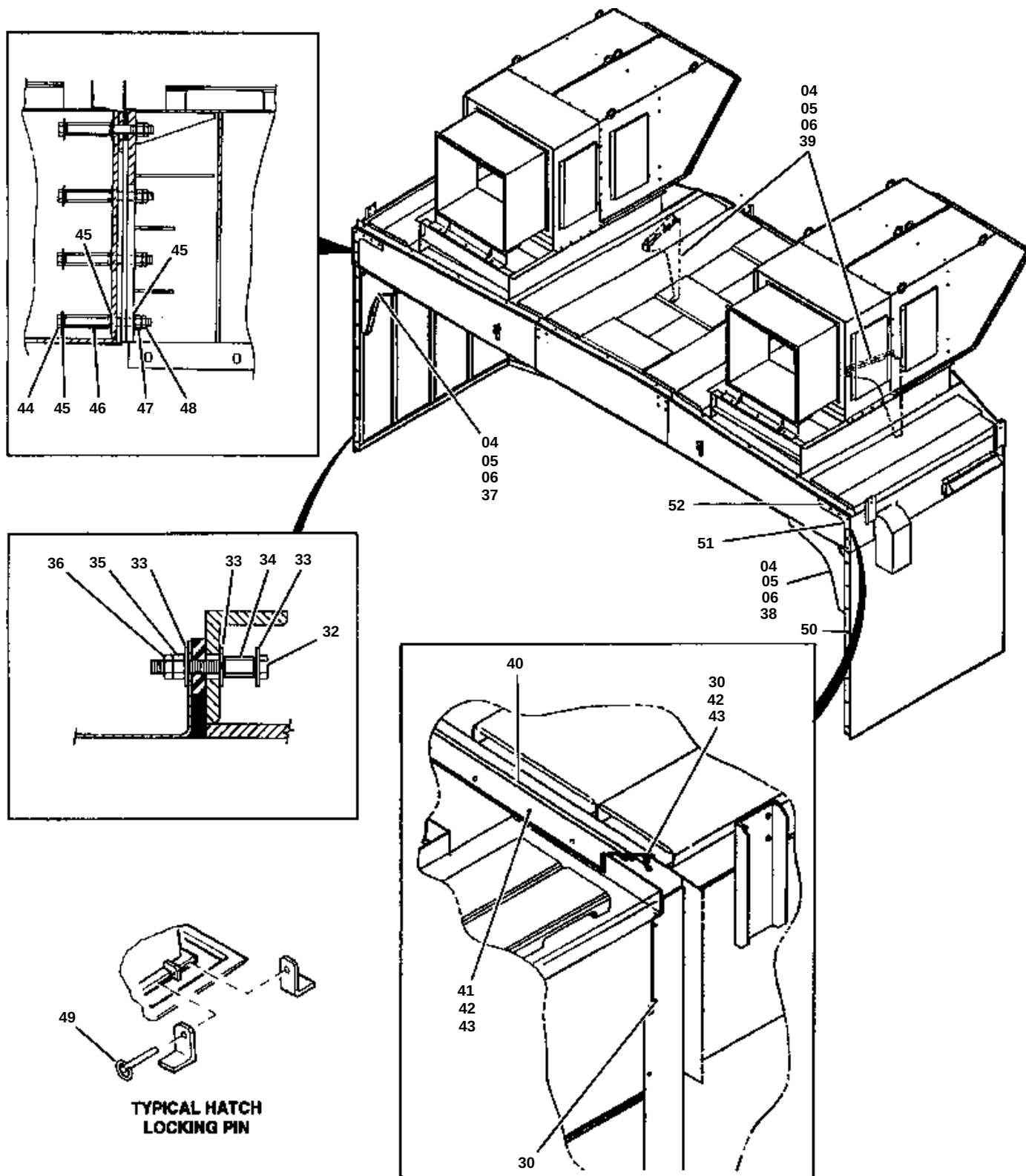


SHEET METAL, UPPER---HARDWARE AND SEALS





SHEET METAL, UPPER---HARDWARE AND SEALS



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SHEET METAL, UPPER---HARDWARE AND SEALS

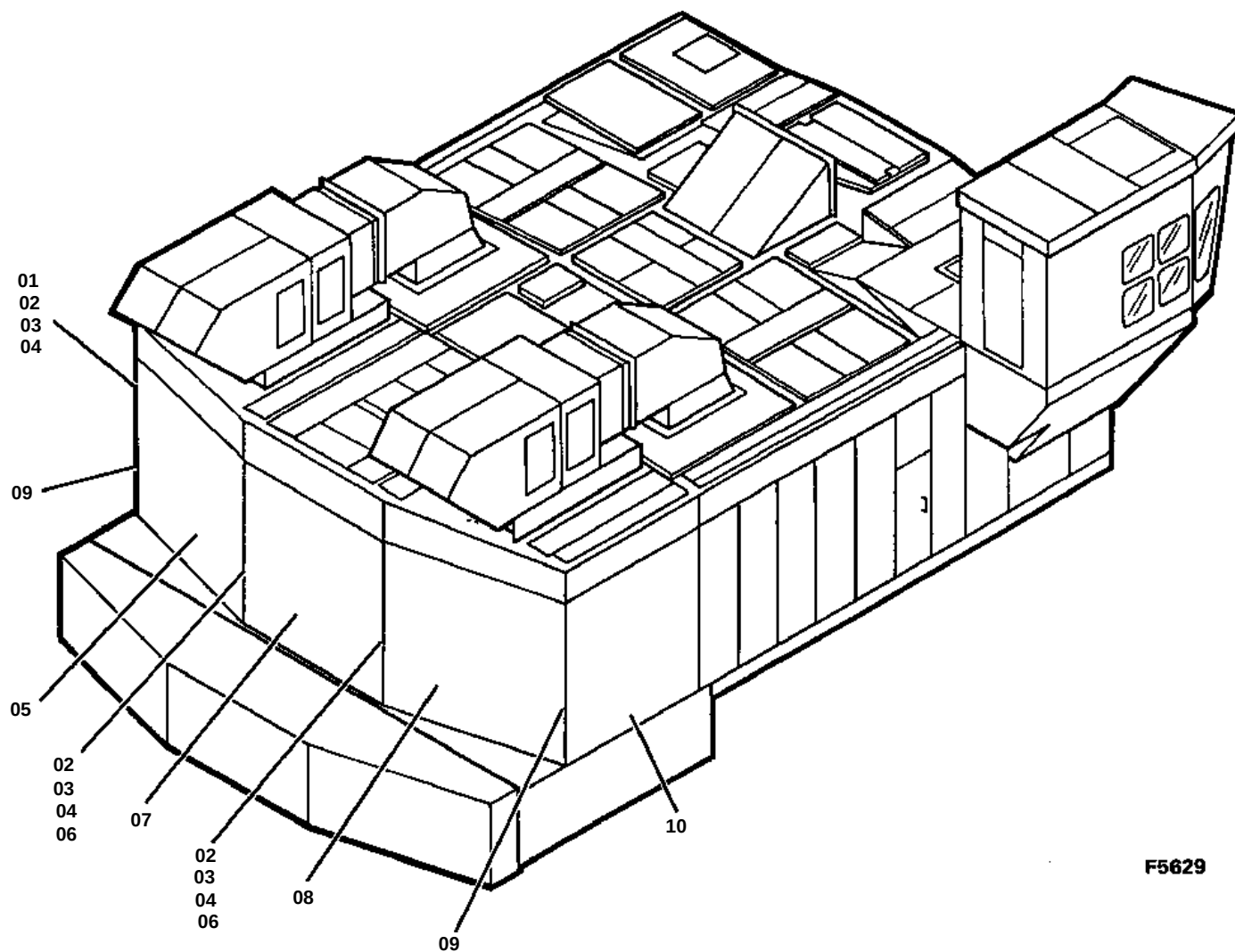
REF	PART NO.	DESCRIPTION	QTY
	R12554F1	SHEET METAL, UPPER - HARDWARE AND SEALS	
01	20Q260D545	• SCREW, Hex Hd Cap 1-8UNC x 4-1/2 in	61
02	20Q278D64	• NUT, Hex 1-8UNC	53
03	3643V018	• WASHER, Lock 1 in	AR
04	20Q260D453	• SCREW, Hex Hd Cap 3/4-10UNC x 3-1/4 in	38
05	20Q278D48	• NUT, Hex 3/4-10UNC	AR
06	3643V016	• WASHER, Lock 3/4 in	AR
07	20Z1703D99	• SCREW, Flanged Lock 1/2-13UNC x 1-1/2 in	AR
08	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	AR
09	20Z1703D97	• SCREW, Flanged Lock 1/2-13UNC x 1 in	AR
10	20Q260D451	• SCREW, Hex Hd Cap 3/4-10UNC x 2 in	16
11	20Z1703D95	• SCREW, Flanged Lock 1/2-13UNC x 3/4 in	31
12	18H3892D248	• WASHER, Plain 1/2 in	16
13	20Q260D332	• SCREW, Hex Hd Cap 1/2-13UNC x 2-1/2 in	14
14	20Z1703D98	• SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	95
15	20Q260D403	• SCREW, Hex Hd Cap 5/8-11UNC x 1-3/4 in	25
16	20Q278D40	• NUT, Hex 5/8-11UNC	AR
17	3643V015	• WASHER, Lock 5/8 in - Heavy Duty	AR
18	21Z761	• ADHESIVE	1
19	20Q260D405	• SCREW, Hex Hd Cap 5/8-11UNC x 2-1/4 in	44
20	20Q260D408	• SCREW, Hex Hd Cap 5/8-11UNC x 2 in	36
21	18H3892D69	• WASHER, Plain 5/8 in	36
22	18Z466D4	• WASHER, Bevel	36
23	20Q260D449	• SCREW, Hex Hd Cap 3/4-10UNC x 2-1/4 in	47
24	27P4322D1	• SPACER, Operators Cab Mounting	2
25	27P4201D1	• SPACER, Operators Cab Mounting	3
26	26Q260D258	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	33
27	3616V009	• WASHER, Lock 3/8 in	AR
28	20Q260D325	• SCREW, Hex Hd Cap 1/2-13UNC x 1 in	44
29	3616V011	• WASHER, Lock 1/2 in	AR
30	20Z1282D1	• SCREW, Self Drilling 1/4-20UNC x 1 in	AR
31	20Q260D539	• SCREW, Hex Hd Cap 1-8UNC x 3 in	27
32	20Z1196D17	• SCREW, Hex Hd Cap 1/2-13UNC x 4 in	18
33	18Z694D6	• WASHER, Hardened 1/2 in	54
34	17Z684D17	• SPRING	18
35	20Q270D32	• NUT, Hex 1/2-13UNC	18
36	20Q272D32	• NUT, Hex Jam 1/2-13UNC	18

SHEET METAL, UPPER---HARDWARE AND SEALS

REF	PART NO.	DESCRIPTION	QTY
37	R11409D1	• BRACE, Sway - Front Right Hand	1
38	R13476D1	• BRACE, Sway - Front Left Hand	1
39	27J3426D1	• BRACE, Sway - Rear	2
40	R11739D1	• SEAL, Expansion Joint	1
41	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in	13
42	3632V002	• WASHER, Heavy Plain 1/4 in	25
43	3616V007	• WASHER, Lock 1/4 in	25
44	20Z1196D19	• SCREW, Hex Hd Cap 3/4-10UNC x 9-1/4 in	16
45	18Z694D8	• WASHER, Hardened 3/4 in	48
46	17Q62D1	• SPRING	16
47	20Q270D48	• NUT, Hex 3/4-10UNC	26
48	20Q272D48	• NUT, Hex Jam 3/4-10UNC	16
49	19Z296D118	• PIN, Self Locking	AR
50	20U104D4	• FOAM, Flex Joint	2
51	20U104D2	• FOAM, Flex	2
52	20U104D1	• FOAM, Flex	2
53	20Q427D1	• FOAM, (Not Shown)	4
54	20Q260D455	• SCREW, Hex Hd Cap 3/4-10UNC x 3-3/4 in (Not Shown)	10
55	3632V009	• WASHER, Heavy Plain 3/4 in (Not Shown)	10



ENCLOSURE ASSEMBLY, REAR



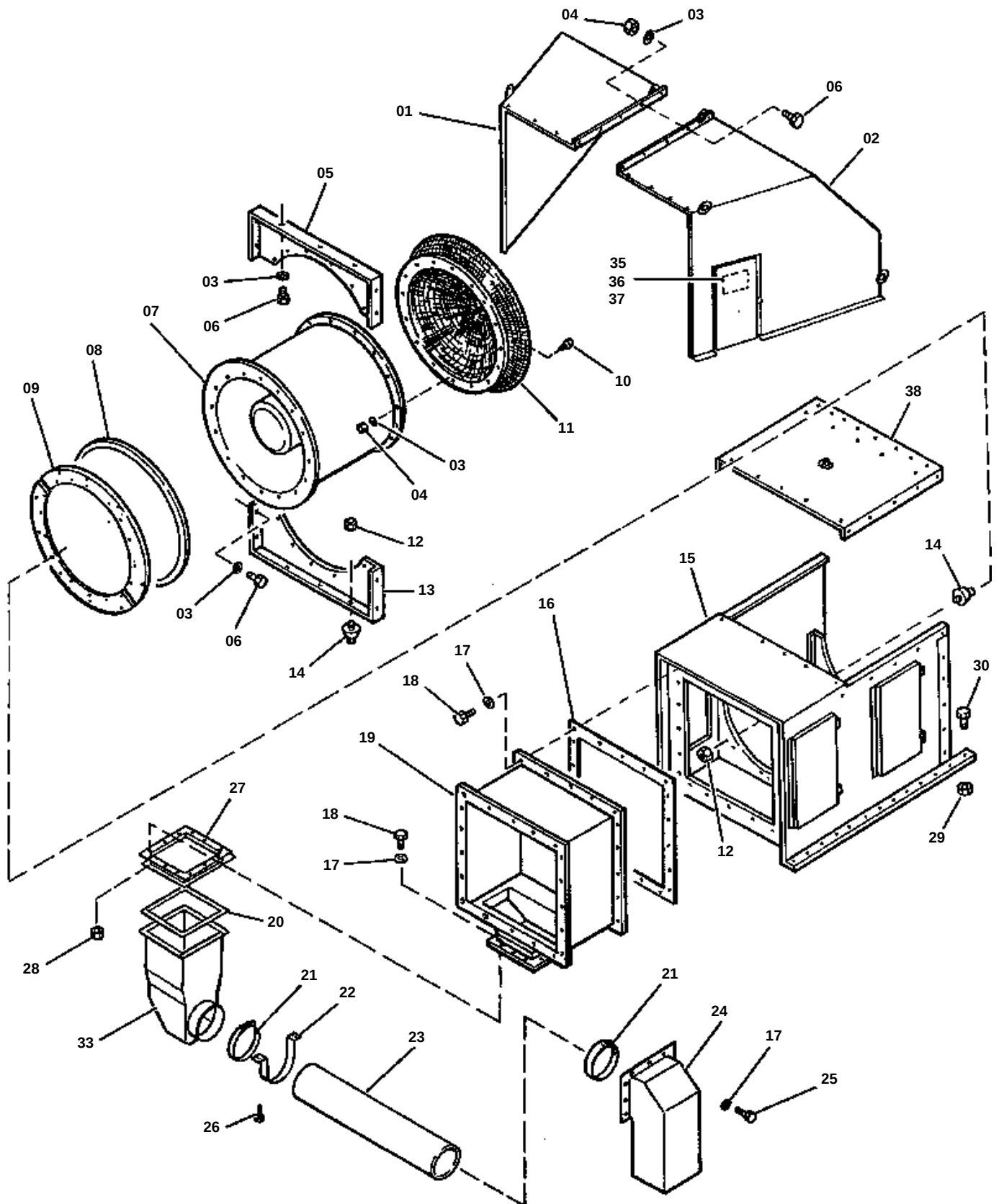
F5629

ENCLOSURE ASSEMBLY, REAR

REF	PART NO.	DESCRIPTION	QTY
	927J613F1	ENCLOSURE ASSEMBLY - REAR	
01	R26343F2	• SIDE WALL - Left Hand	1
02	20Q260D451	• SCREW, Hex Hd Cap 3/4-10UNC x 2-3/4 in	28
03	3611V012	• WASHER, Plain 3/4 in	56
04	20H1614D8	• NUT, Self locking 3/4-10UNC	28
05	R26344F2	• PANEL, End Wall - Left Hand	1
06	27N4483D1	• SHIM	4
07	R26345F1	• PANEL, Center Wall	1
08	R26344F1	• PANEL, End Wall - Right Hand	1
09	27N4285	• COVER, Corner	2
10	R26343F1	• SIDE WALL - Right Hand	1



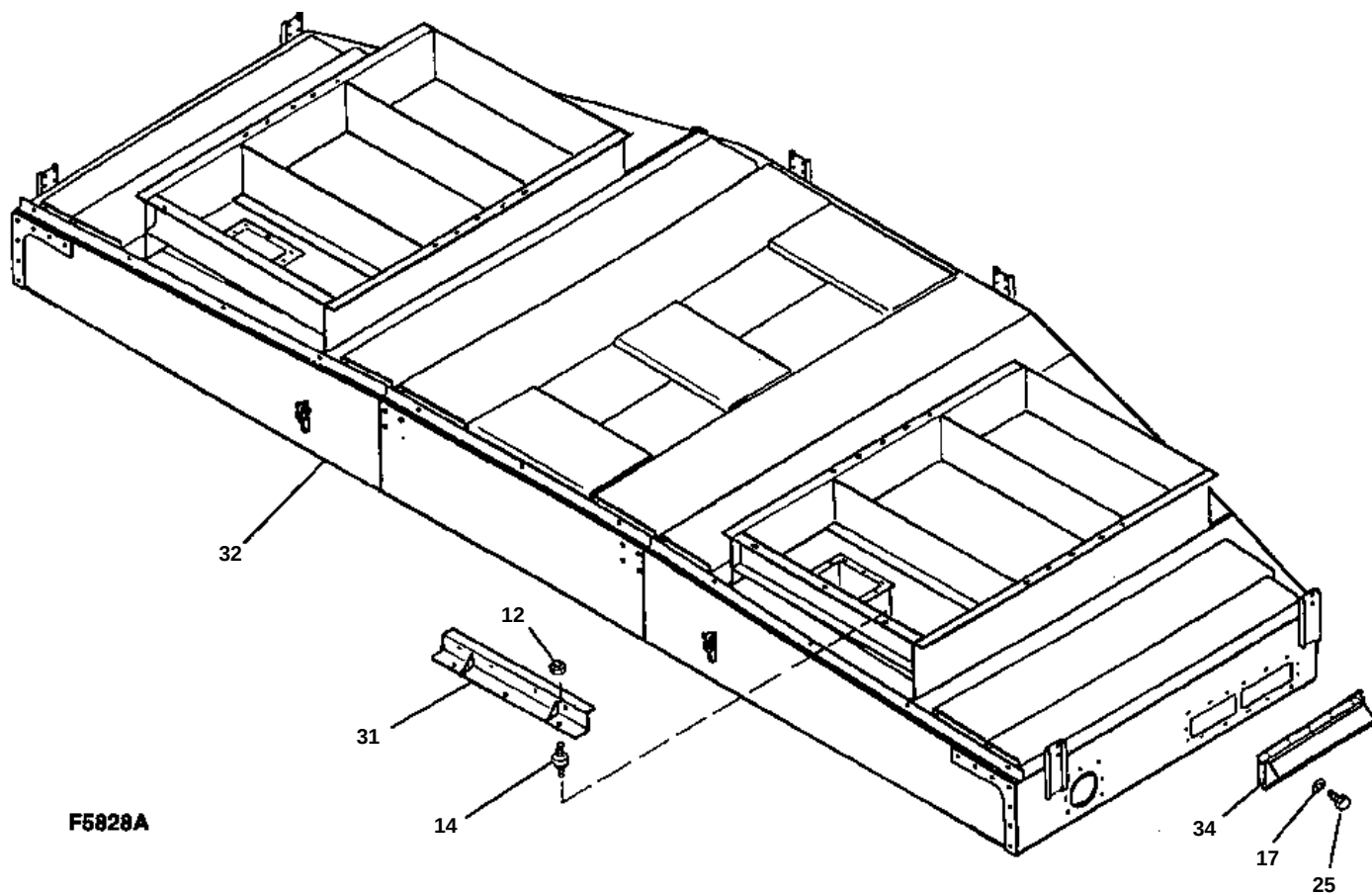
REAR ROOF AND HOUSE PRESSURIZER



F5628



REAR ROOF AND HOUSE PRESSURIZER



REAR ROOF AND HOUSE PRESSURIZER

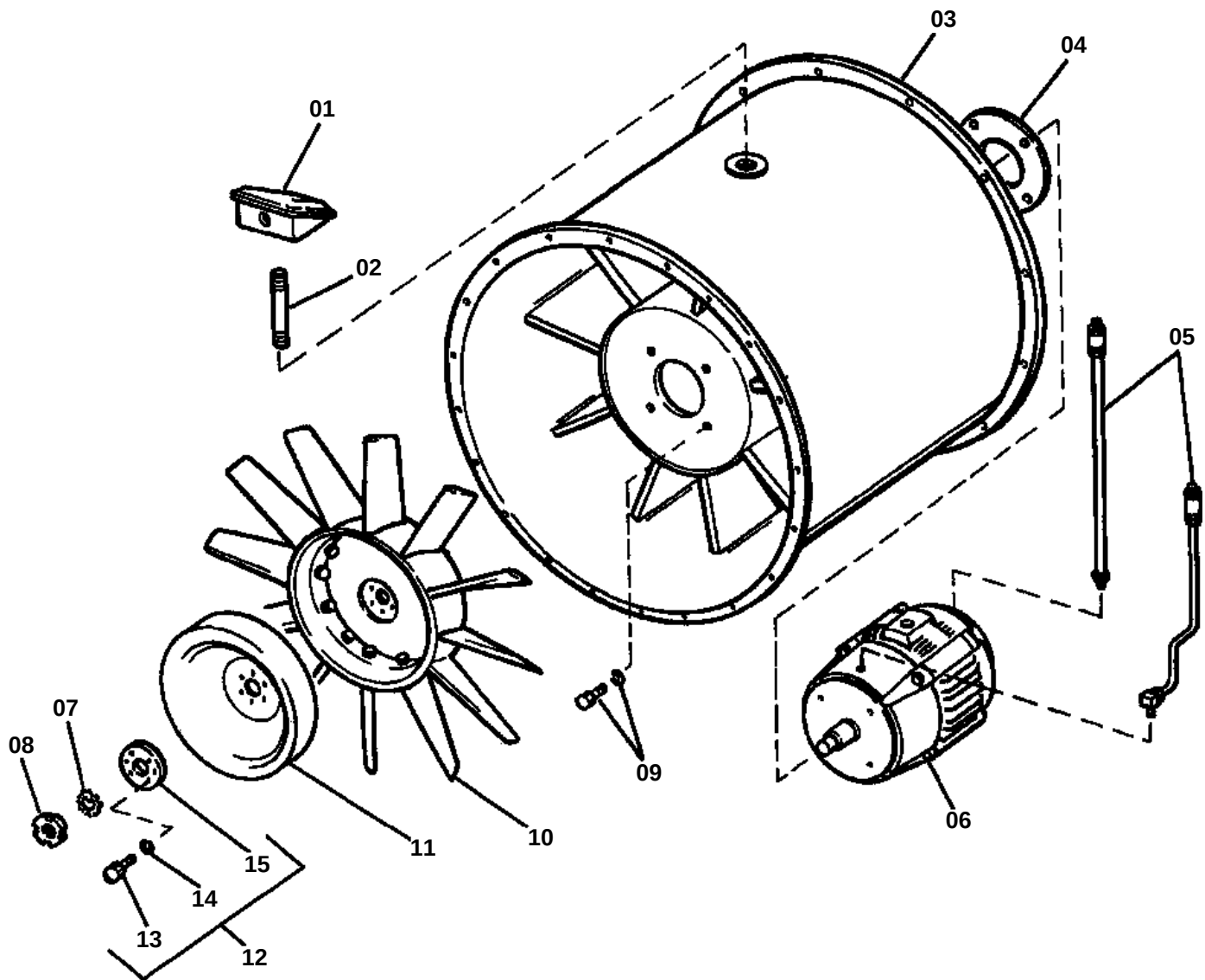
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R10667F1	REAR ROOF AND HOUSE PRESSURIZER		
01	R14761F2	• SHROUD, Intake - Left Hand Inner (Shown)	1	
	R14761F1	• SHROUD, Intake - Right Hand Inner (Opposite)	1	
02	R14267F2	• SHROUD, Intake - Left Hand Outer (Shown)	1	
	R14267F1	• SHROUD, Intake - Right Hand Outer (Opposite)	1	
03	3616V011	• WASHER, Lock 1/2 in	235	
04	20Q270D32	• NUT, Hex 1/2-13UNC	30	
05	R14921D1	• BRACKET, Fan - Upper	2	
06	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	65	
07	49R22D1	• FAN	2	1-12
08	27Z734D20	• SEAL, Rubber 180 in	2	
09	27J3413D1	• MOUNTING PLATE, Fan	2	
10	20Q260D328	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/2 in	106	
11	49Q63	• BELL, Inlet w/Screen	2	
12	20Z1704D10	• NUT, Locking Flange 1/2-20UNF	57	
13	R14920D1	• BRACKET, Fan - Lower	2	
14	16Z199	• MOUNT, Shock	35	
15	R14569F1	• BOX, Plenum	2	
16	P&H Spec 3302	• STRIP, Neoprene 1/8 x 1-1/2 x 225 in	AR	
17	3616V009	• WASHER, Lock 3/8 in	80	
18	20Q260D260	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	74	
19	46R19	• CLEANER, Air	2	
--	1046Z698	• • BLADE PACK, (Two Blade Packs per Cell)	20	
20	P&H Spec 3302	• STRIP, Neoprene 3/8 x 1-1/2 x 18-13/16 in	AR	
21	R10878D4	• CLAMP, Hose	4	
22	R11573D1	• STRAP, Steel Hanger	2	
23	R10878D3	• HOSE, Flex Tubing 12 I D x 25 ft	AR	
24	R10607D1	• HOOD, Bleed Duct	2	
25	20Q260D325	• SCREW, Hex Hd Cap 1/2-13UNC x 1 in	40	
26	20Z1282D11	• SCREW, Self Tapping 1/4-20UNF x 3/4 in	10	
27	R10510D1	• ADAPTER, Bleed Duct	2	
28	20Q270D24	• NUT, Hex 3/8-16UNC	24	
29	20H1614D7	• NUT, Self locking 5/8-11UNC	55	
30	20Q260D404	• SCREW, Hex Hd Cap 5/8-11UNC x 2 in	24	
31	R13042D1	• BRACKET, Air Cleaner	2	
32	R11181F1	• ROOF, Machinery House, Rear	1	
33	R10536F1	• CHAMBER, Filter Bleed	2	

REAR ROOF AND HOUSE PRESSURIZER

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FAN, HOUSE PRESSURIZATION, UNIVERSAL



F3841



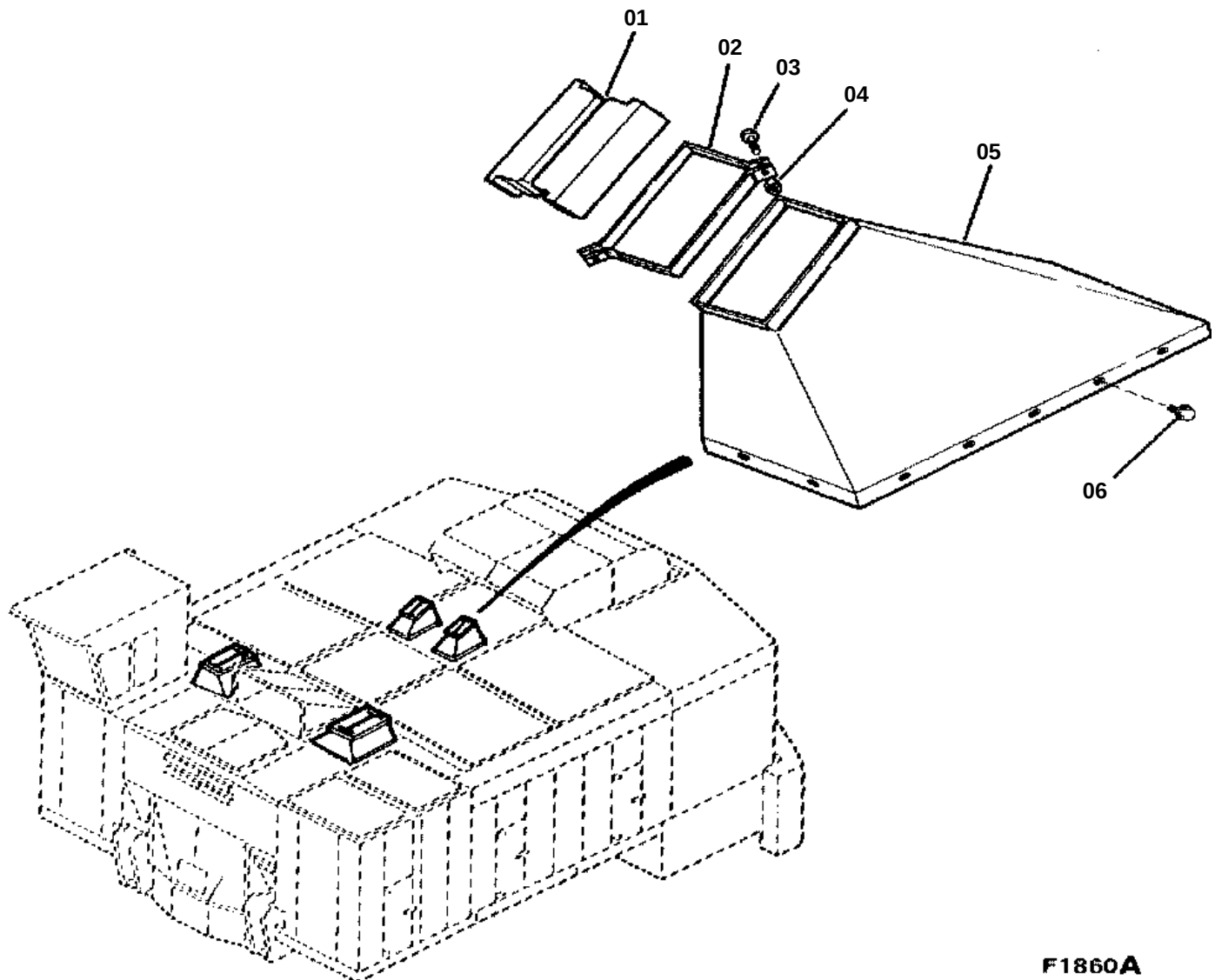
Machine
Serial Number: **4184**

FAN, HOUSE PRESSURIZATION, UNIVERSAL

REF	PART NO.	DESCRIPTION	QTY
	49R22D1	FAN, HOUSE PRESSURIZATION, UNIVERSAL	
01	1087Z351	• BOX, Conduit	1
02	1020Z12341	• NIPPLE, Pipe	1
03	1049Z389	• CASING, Fan	1
04	1016Z1224	• DISC, Motor Support	1
05	1044Z1204	• LEADS, Grease	1
06	1088Z472	• MOTOR, 30 hp 280 T Frame Universal Voltage	1
07	18Z1D7	• • WASHER, Lock	1
08	20Z3D7	• • NUT, Bearing lock	1
09	1049Z391	• MOTOR MOUNTING HARDWARE	1
10	1049Z387	• ROTOR ASSEMBLY	1
11	1049Z96	• NOSE	1
12	1049Z388	• HARDWARE, Nose	1
13	NSS	• • SCREW, Hex hd cap 5/16-24UNF x 1 in lg	6
14	NSS	• • WASHER, Lock 5/16 in	6
15	NSS	• • PLATE, Retaining	1
	R20020F1	• HARDWARE KIT, Anti-rotation (Not shown)	1
	0736V024	• • SCREW, Hex Skt Button Hd, 1/4-20UNC x 1 in	3
	3616V007	• • WASHER, Lock, 1/4 in	3



BOOT, GANTRY, REAR, RIGHT-HAND

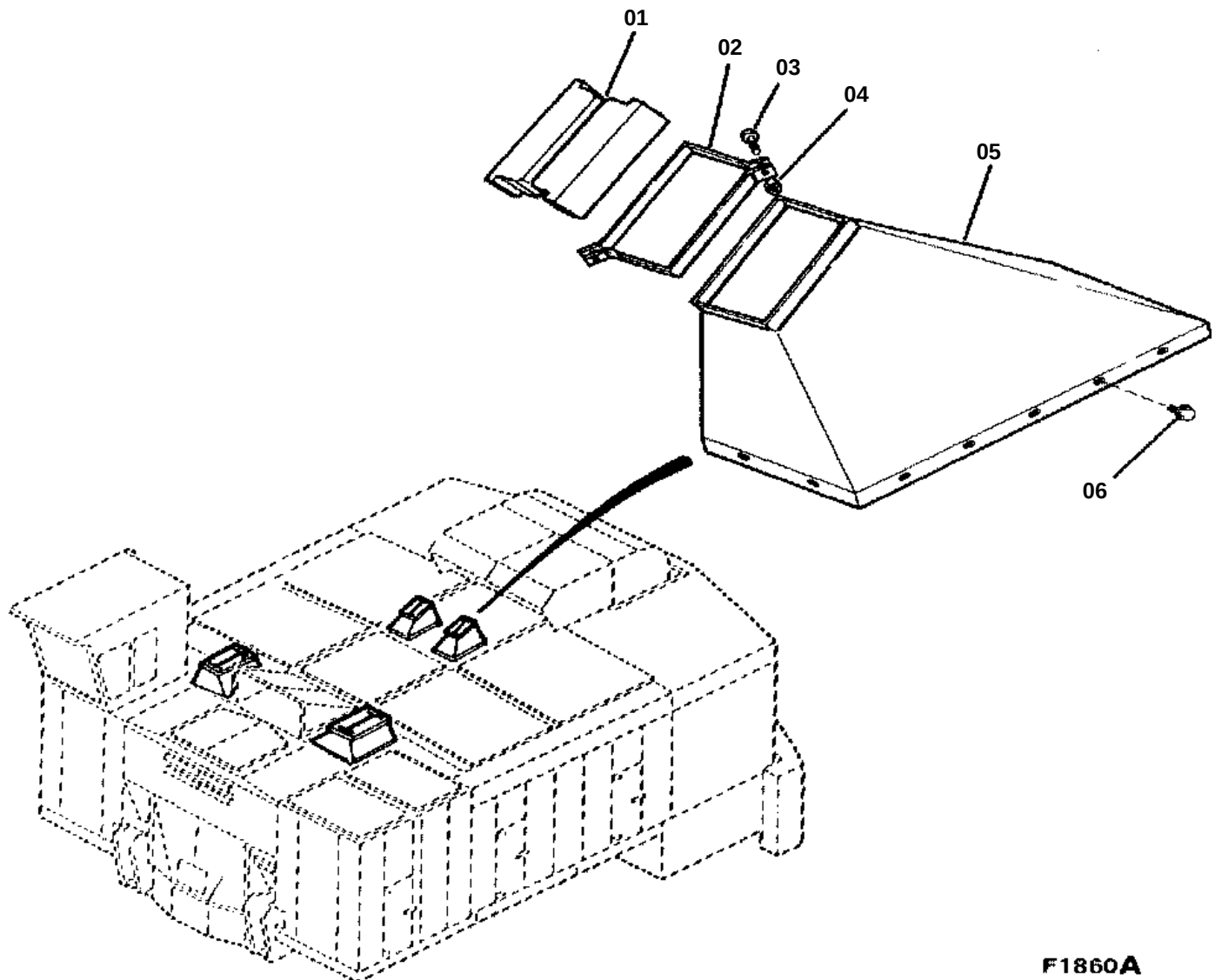


BOOT, GANTRY, REAR, RIGHT-HAND

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BOOT, GANTRY, REAR, LEFT-HAND



F1860A

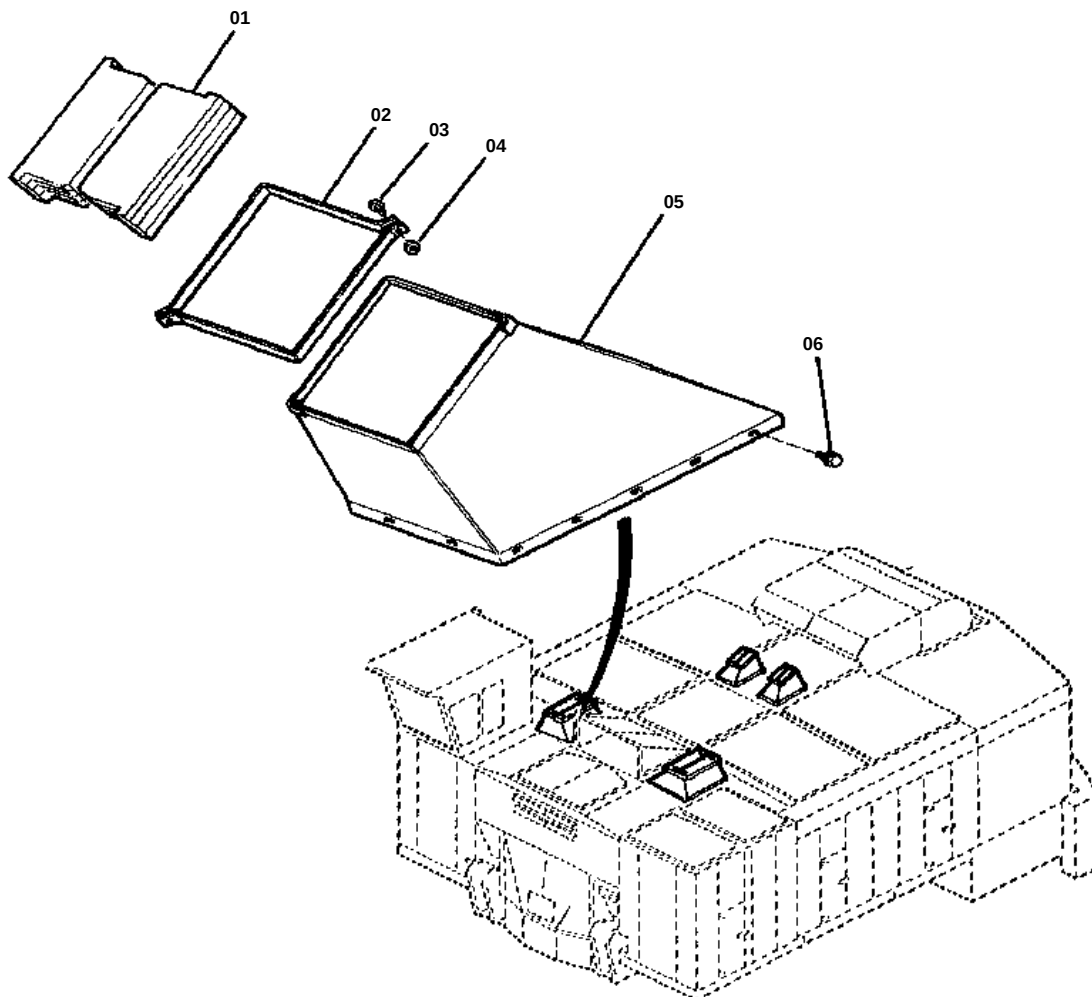


Machine
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BOOT, GANTRY, FRONT, RIGHT-HAND



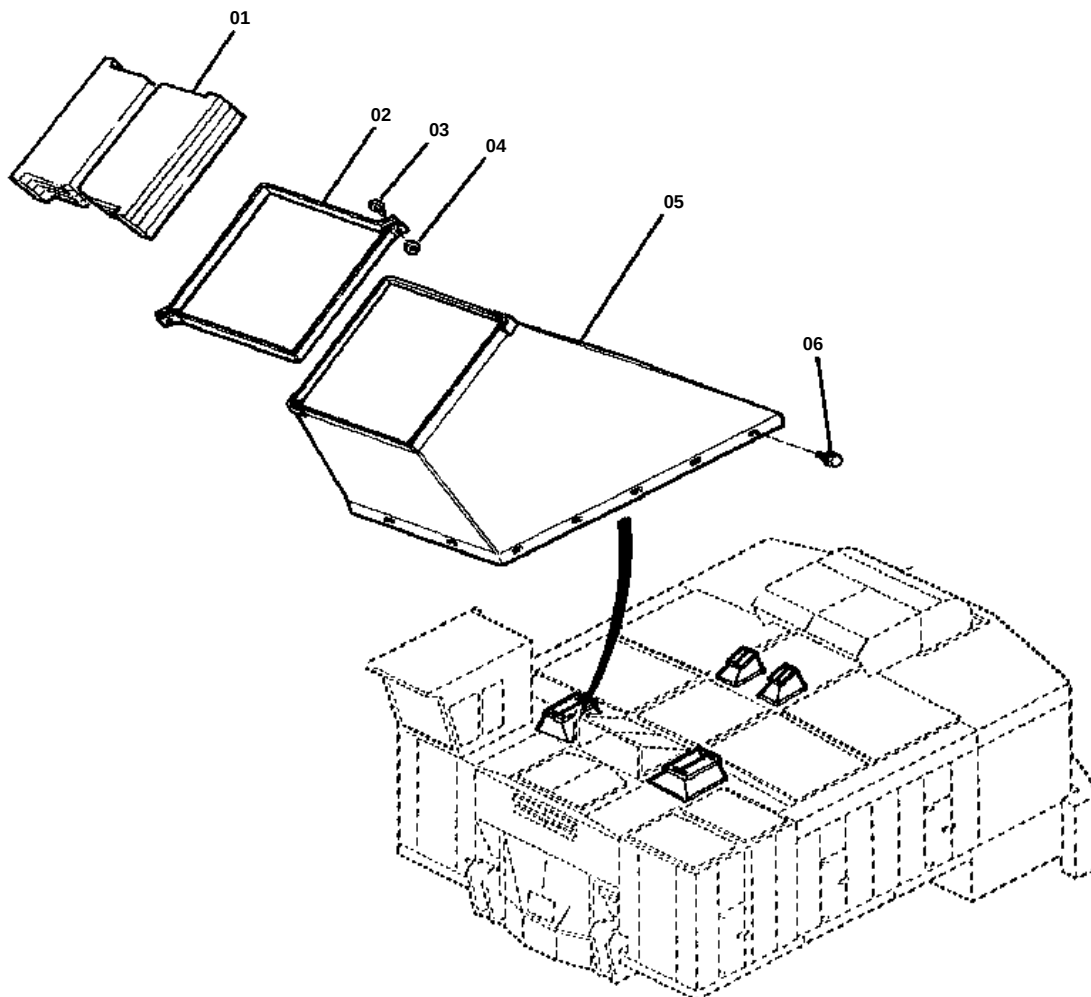
F1860

BOOT, GANTRY, FRONT, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY
	927J555F5	BOOT, GANTRY - FRONT R.H.	
01	18Z3739D1	• FILLER	2
02	32P419D12	• CLAMP, Boot	2
03	0626V082	• SCREW, Hex Hd Cap 1/2-13UNC x 2-1/4 in	2
04	20H1614D6	• NUT, Self locking 1/2-13UNC	2
05	14R119D1	• BOOT, Front, R H	1
06	20Z1703D98	• SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	14



BOOT, GANTRY, FRONT, LEFT-HAND



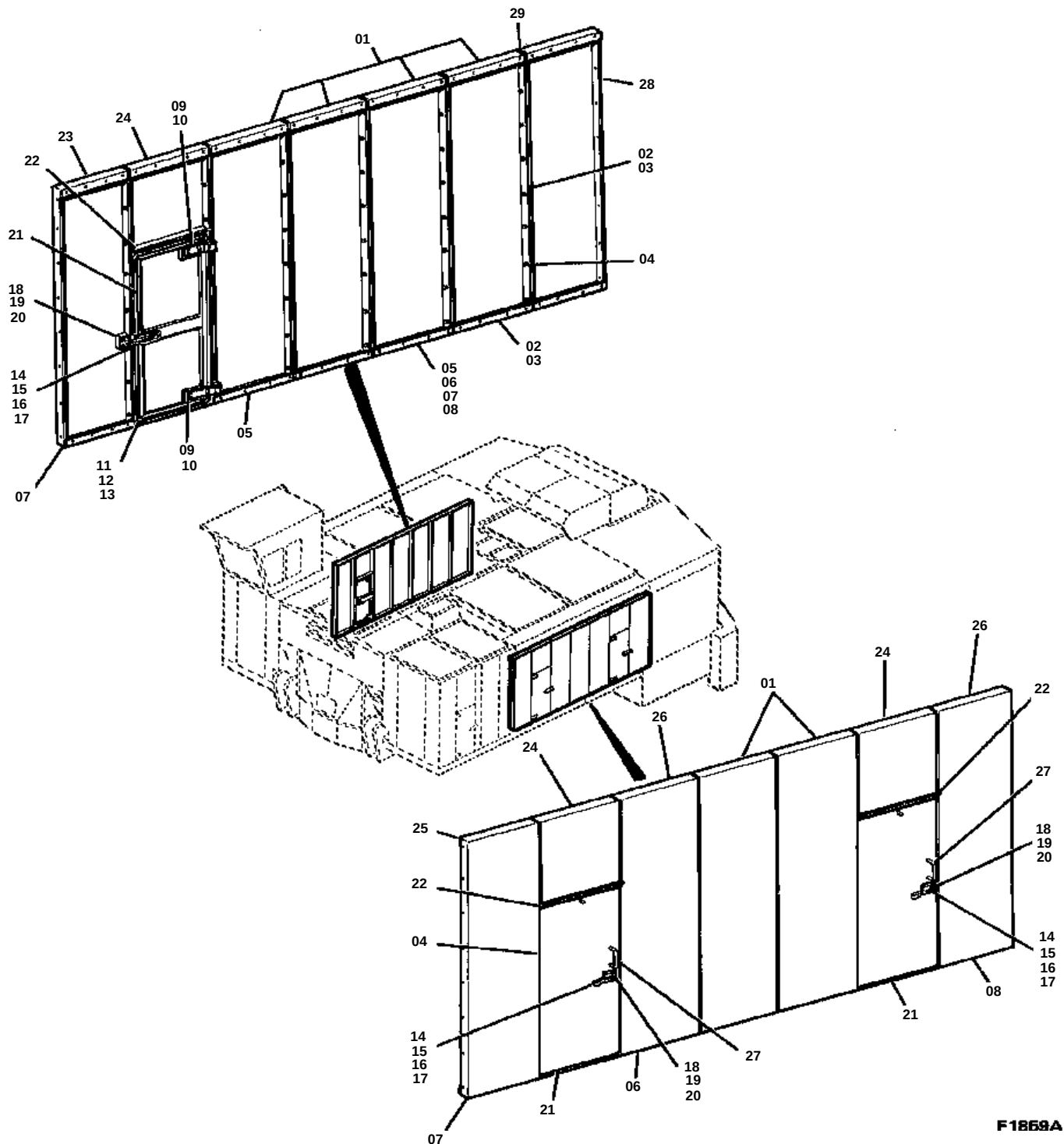
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BOOT, GANTRY, FRONT, LEFT-HAND

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SHEET METAL, SIDE WALL, RIGHT-HAND



F1869A

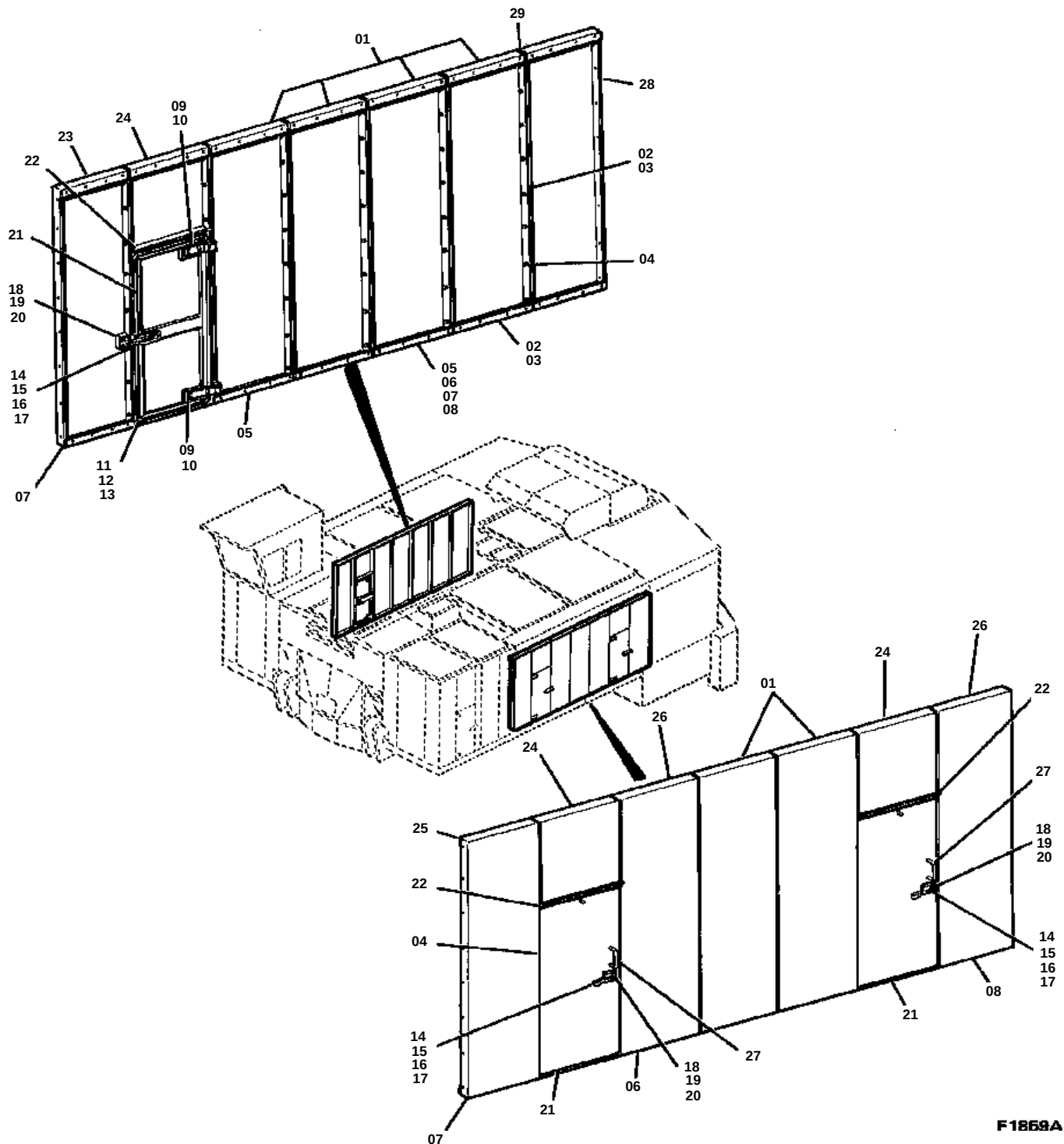


SHEET METAL, SIDE WALL, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY
	927J549F1	SHEET METAL, SIDE WALL, RH	
01	27J3116D1	· PANEL	4
02	20Z1703D97	· SCREW, Flanged Lock 1/2-13UNC x 1 in	75
03	20Z1704D9	· NUT, Locking Flange 1/2-13UNC	75
04	20P1932	· SHIM, 3/4 thk	10
05	27N4265	· ANGLE, Mounting	1
06	27N4266	· ANGLE, Mounting	1
07	27N4267	· ANGLE, Mounting	1
08		NOT USED	
09	20Z2488	· HINGE, Heavy duty	2
10	20Z1703D50	· SCREW, Flanged Lock 5/16-18UNC x 5/8 in	8
11	27P4066D2	· SEAL, Bottom	1
12	27P4067	· CLAMP, Bar	1
13	20Z1703D21	· SCREW, Flanged Lock #10-24UNC x 1 in	8
14	21U7	· SAFEGUARD LATCH ASSEMBLY	1
	1006Z1632	· · LEVER ASSEMBLY	1
	1006Z1631	· · LOCKBODY AND HANDLE ASSEMBLY	1
	1006Z1630	· · STRIKER, Door Latch	1
15	20T10027D1	· SHIM, 0.104	1
16	20T10027D2	· SHIM, 0.074	1
17	20Z1703D17	· SCREW, Flanged Lock #10-24UNC x 1/2 in	3
18	0844V101	· SCREW, Fl Hd Mach 1/4-20UNC-2A x 1 in	10
19	18H4148D7	· WASHER, Countersunk Lock 1/4 in	10
20	20Z1704D1	· NUT, Locking Flange 1/4-20UNC	4
21	27J2945D3	· DOOR	1
22	27Z851	· SEAL, Rubber	1
23	27J3119	· PANEL	1
24	27J3120	· JAMB, Door	1
25		NOT USED	
26		NOT USED	
27	16T9260	· STOP	1
28	27J3116D2	· PANEL	1
29	20P1932	· SHIM	10



SHEET METAL, SIDE WALL, LEFT-HAND



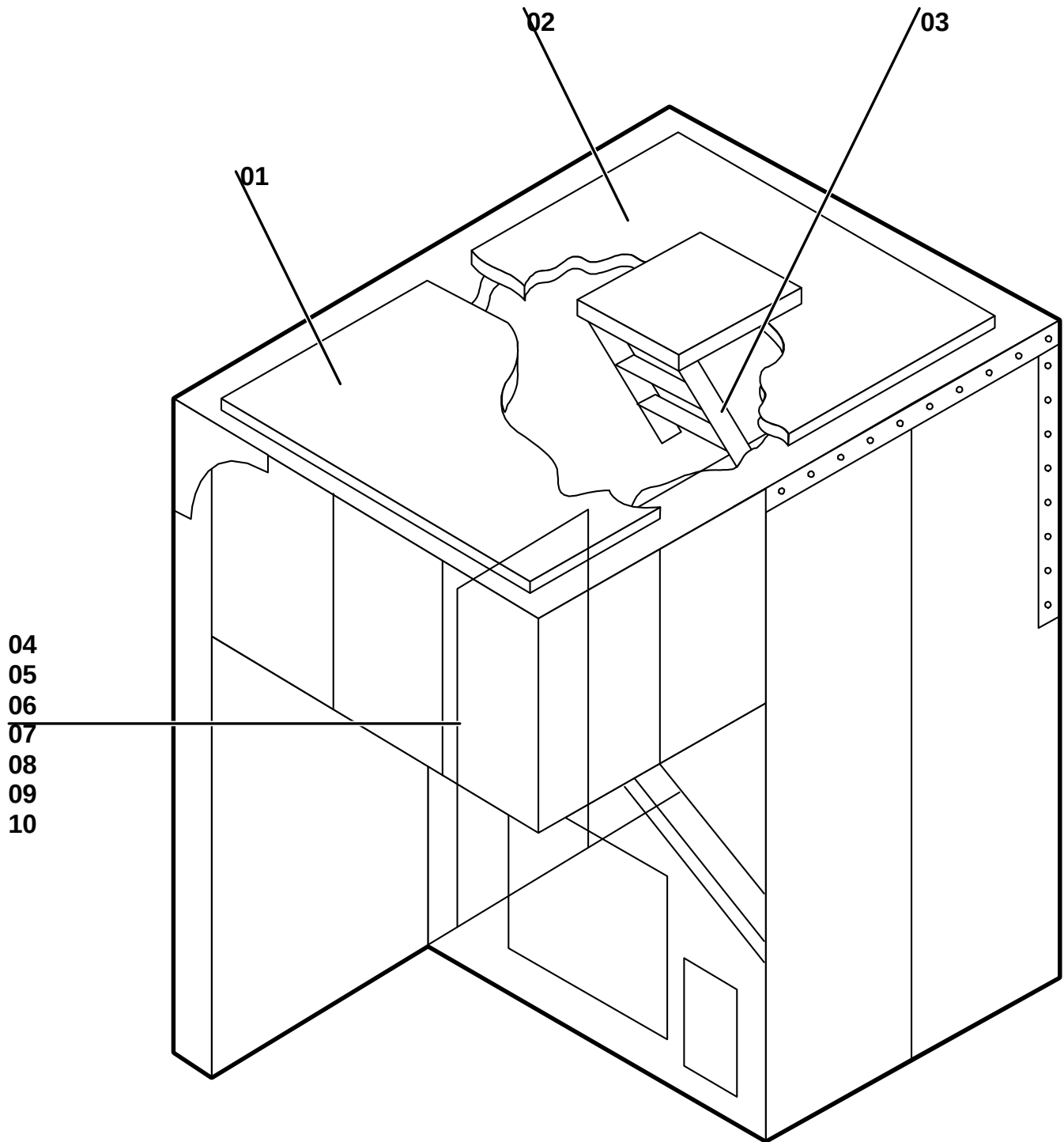


SHEET METAL, SIDE WALL, LEFT-HAND

REF	PART NO.	DESCRIPTION	QTY
	927J549F2	SHEET METAL, SIDE WALL, LH	
01	27J3116D1	· PANEL	1
02	20Z1703D97	· SCREW, Flanged Lock 1/2-13UNC x 1 in	75
03	20Z1704D9	· NUT, Locking Flange 1/2-13UNC	75
04	20P1932	· SHIM, 3/4 thk	10
05		NOT USED	
06	27N4266	· ANGLE, Mounting	1
07	27N4267	· ANGLE, Mounting	1
08	27N4268	· ANGLE, Mounting	1
09	20Z2488	· HINGE, Heavy duty	4
10	20Z1703D50	· SCREW, Flanged Lock 5/16-18UNC x 5/8 in	16
11	27P4066D2	· SEAL, Bottom	2
12	27P4067	· CLAMP, Bar	2
13	20Z1703D21	· SCREW, Flanged Lock #10-24UNC x 1 in	8
14	21U7	· SAFEGUARD LATCH ASSEMBLY	2
	1006Z1632	· · LEVER ASSEMBLY	1
	1006Z1631	· · LOCKBODY AND HANDLE ASSEMBLY	1
	1006Z1630	· · STRIKER, Door Latch	1
15	20T10027D1	· SHIM, 0.104	2
16	20T10027D2	· SHIM, 0.074	2
17	20Z1703D17	· SCREW, Flanged Lock #10-24UNC x 1/2 in	6
18	0844V101	· SCREW, Fl Hd Mach 1/4-20UNC-2A x 1 in	20
19	18H4148D7	· WASHER, Countersunk Lock 1/4 in	20
20	20Z1704D1	· NUT, Locking Flange 1/4-20UNC	8
21	27J2945D3	· DOOR	2
22	27Z851	· SEAL, Rubber	2
23		NOT USED	
24	27J3120	· JAMB, Door	2
25	27J3117	· PANEL	1
26	27J3118	· PANEL	2
27	16T9260	· STOP	2
28	27J3116D2	· PANEL	1
29	20P1932	· SHIM	10



ROOM, L.H. LUBE



F6874



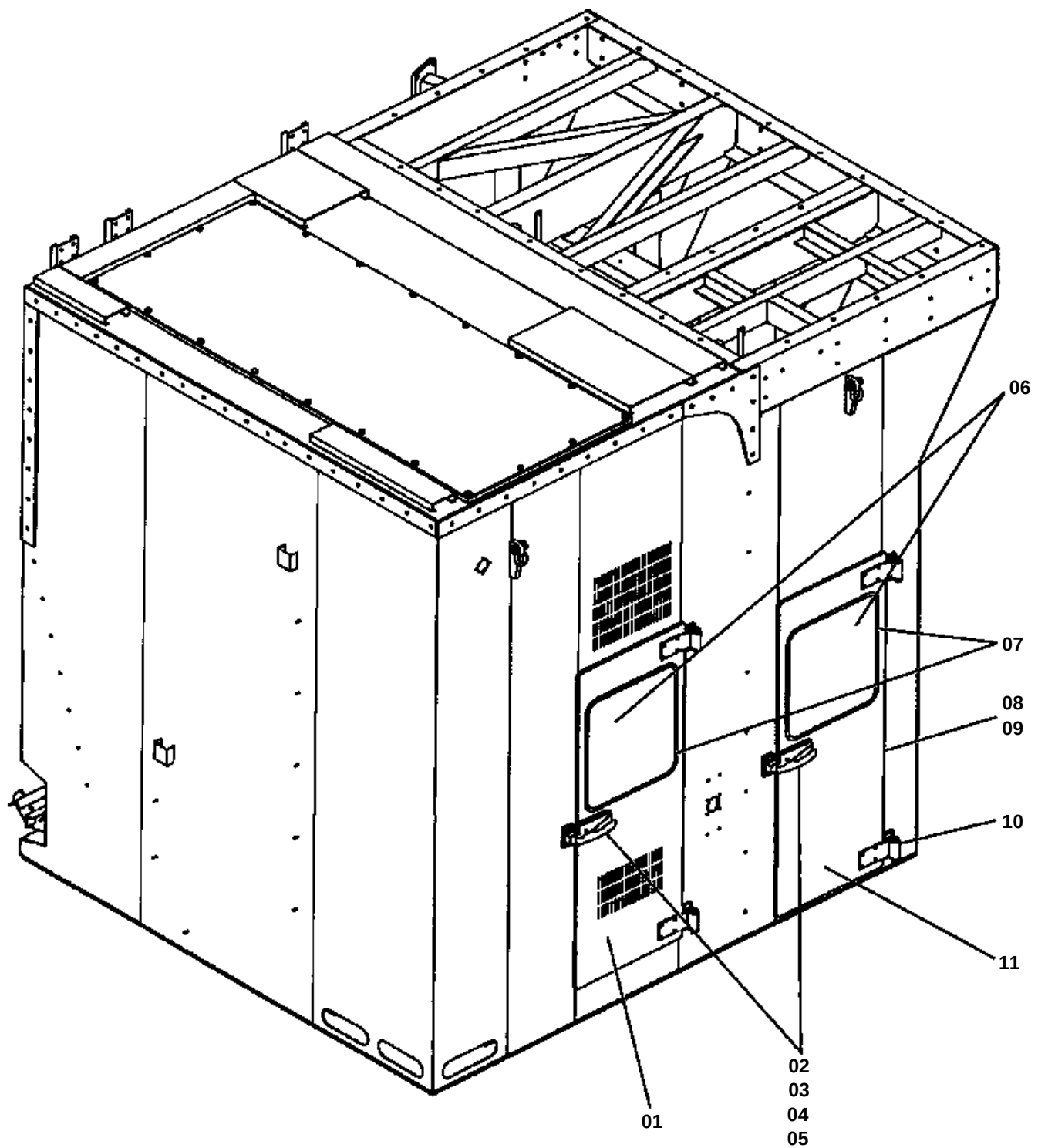
Machine
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ROOM, L.H. LUBE

REF	PART NO.	DESCRIPTION	QTY
	27J3151D1F1	ROOM, L.H. LUBE	
01	27N4269F1	· COVER, Hatch	1
02	R19063F1	· COVER, Loft hatch	1
03	27N4502D1F1	· LADDER, Loft access	1
04	27J3130	· WELDMENT, Door	1
05	21U7	· LATCH ASSEMBLY, Door	1
06	1006Z1632	· · LEVER ASSEMBLY	1
07	1006Z1631	· · LOCKBODY AND HANDLE ASSEMBLY	1
08	1006Z1630	· · STRIKER, Door latch	1
09	20Z2488D1	· HINGE	2
10	27Z851	· SEAL, Door rubber	AR



ROOM, R.H. ELECTRICAL



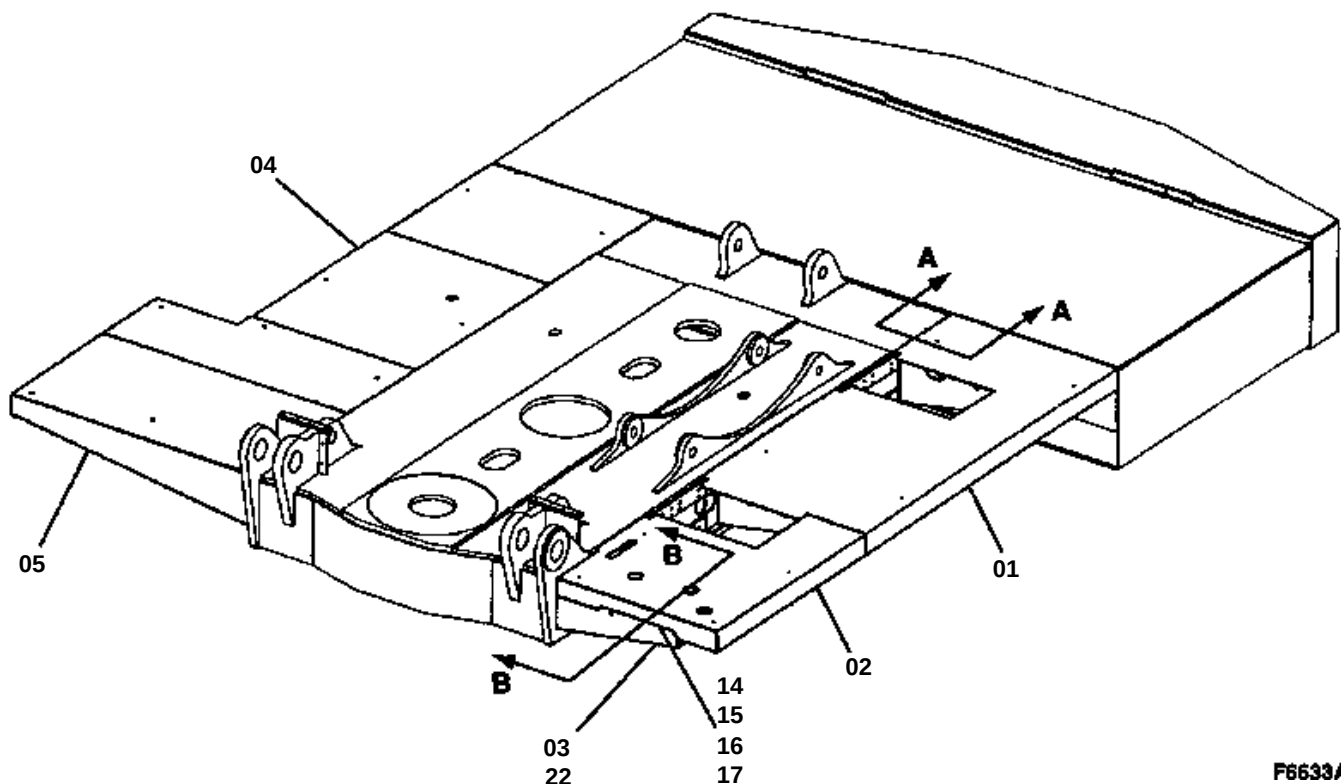
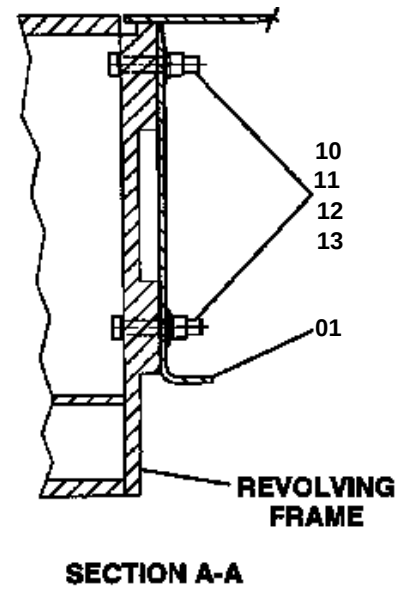
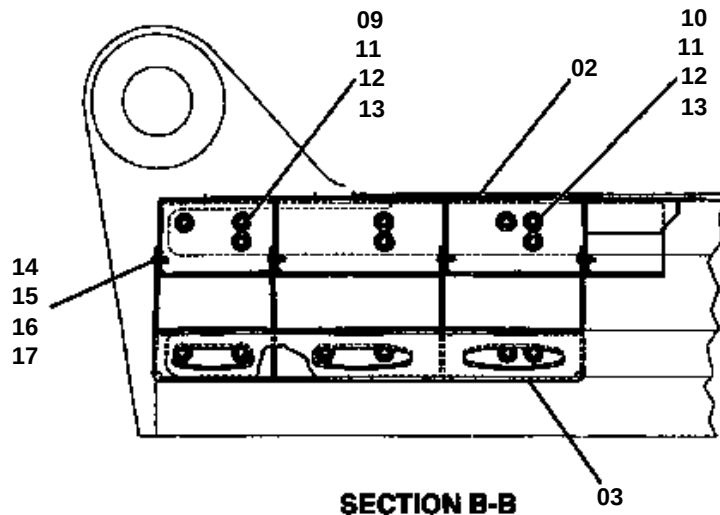
F6875

ROOM, R.H. ELECTRICAL

REF	PART NO.	DESCRIPTION	QTY
	R29780F1	ROOM, R.H. ELECTRICAL	
01	727J87D1	· WELDMENT, Door	1
02	21U7	· LATCH ASSEMBLY, Door	2
03	1006Z1632	· · LEVER ASSEMBLY	1
04	1006Z1631	· · LOCKBODY AND HANDLE ASSEMBLY	1
05	1006Z1630	· · STRIKER, Door latch	1
06	27Z826D1	· GLASS, Door	2
07	27Z1356	· CHANNEL, Rubber (for glass)	AR
08	27Z851	· SEAL, Door, rubber	AR
09	27Z761	· ADHESIVE	AR
10	20Z2488D1	· HINGE, Door	4
11	727J87D2	· WELDMENT, Door	1



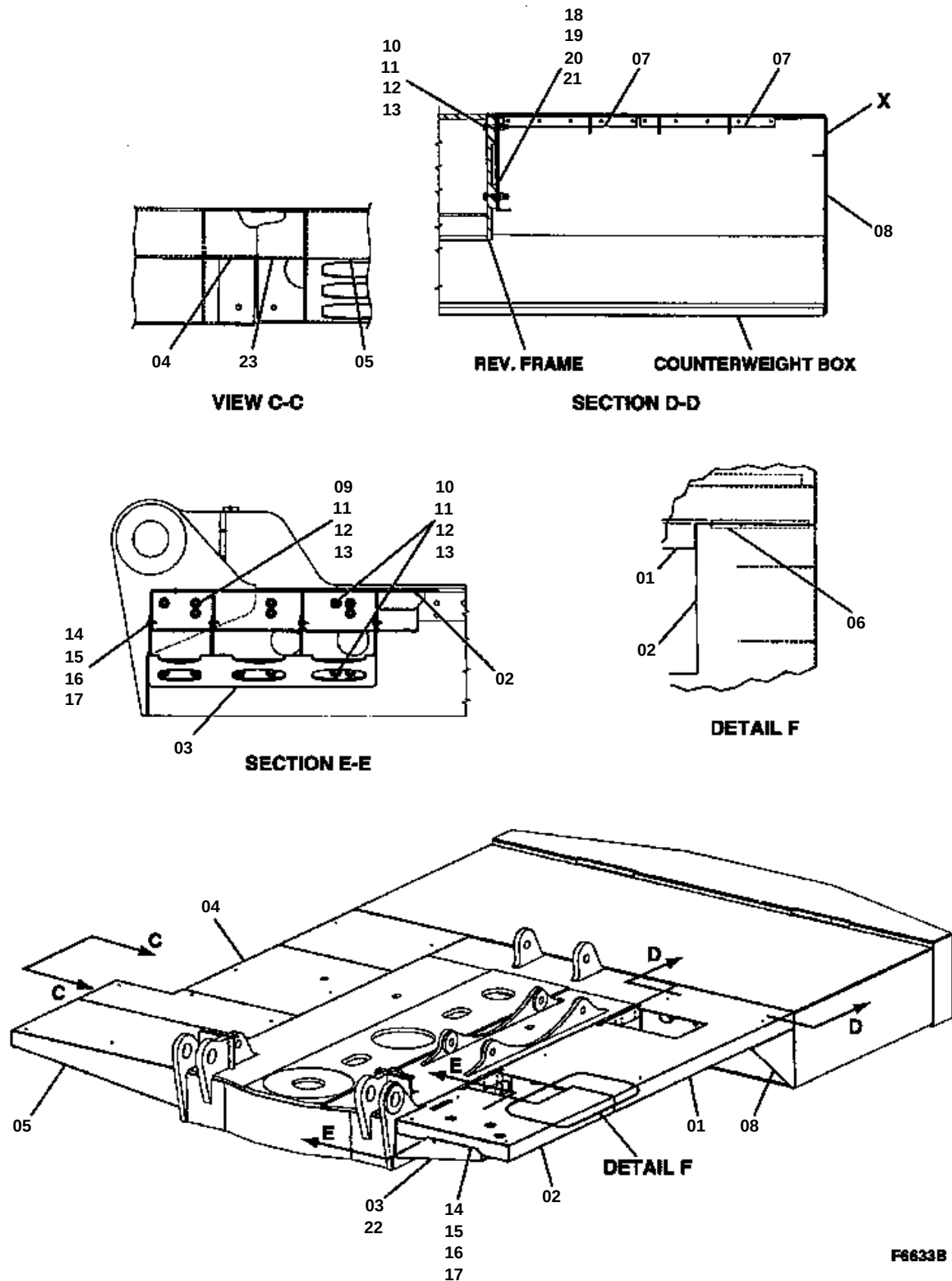
PLATFORM ASSEMBLY



F6633A



PLATFORM ASSEMBLY



F6633B



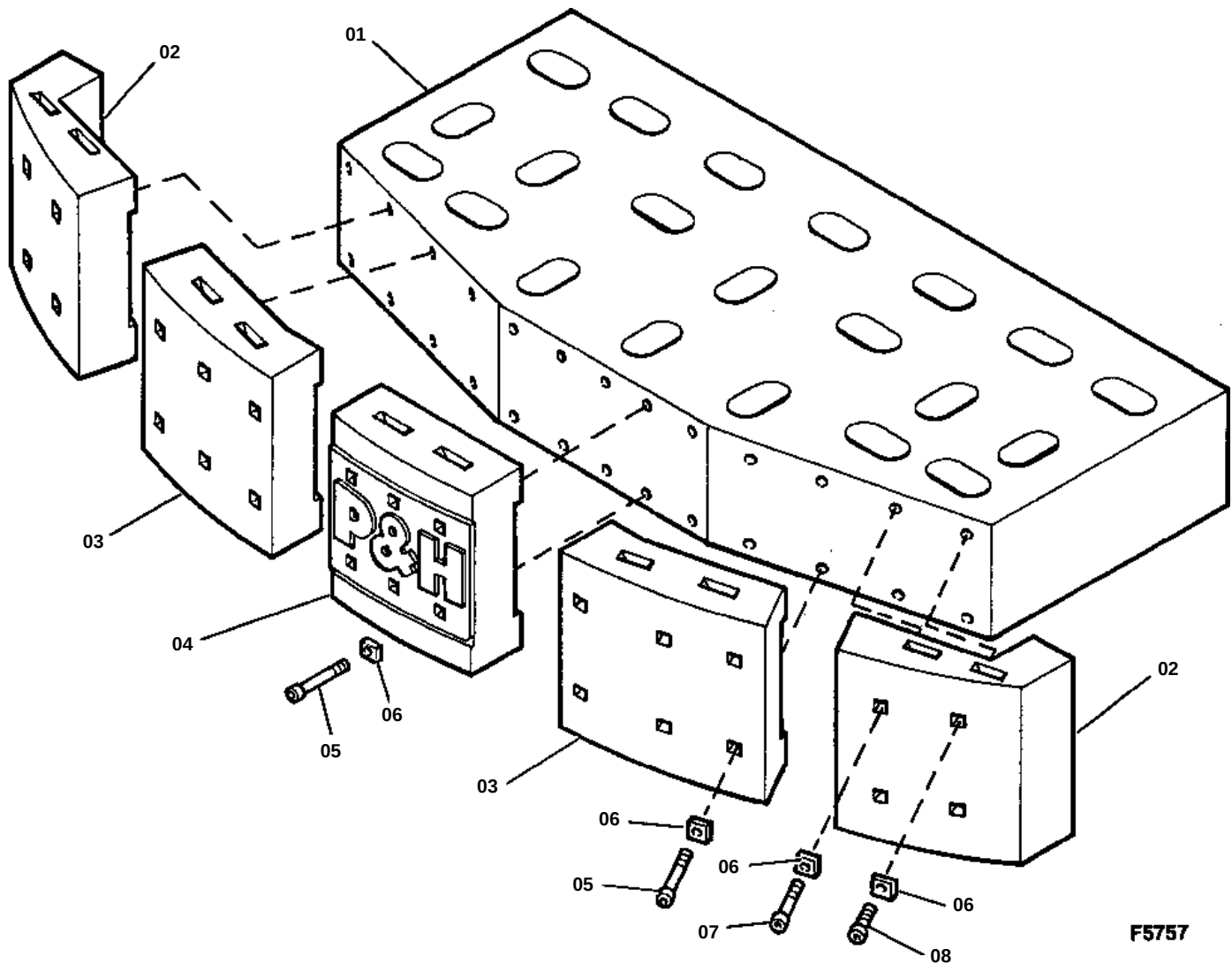
Machine
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PLATFORM ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	R30351F1	PLATFORM ASSEMBLY	
01	11J3995D1F1	· PLATFORM, LH Rear	1
02	11J4066D1	· PLATFORM, LH Front	1
03	11J4065D1	· SUPPORT, LH Platform	1
04	11J3871	· PLATFORM, RH Rear	1
05	R29204D1	· PLATFORM, RH Front	1
06	16P6978	· PLATE, Mounting	1
07	16P7322D1	· LEDGE, Platform Support	4
08	18P8628	· PLATE, Filler Side	2
09	20Q260D591	· SCREW, Hex Hd Cap 1-1/64-7UNC x 8-1/2 in lg	10
10	20Q260D586	· SCREW, Hex Hd Cap 1-1/64-7UNC x 6 in lg	60
11	20Q270D72	· NUT, Hex 1-1/64-7UNC	70
12	3615V018	· WASHER, Lock 1-1/64 in	70
13	3612V012	· WASHER, Flat 1-1/64 in	70
14	20Q260D331	· SCREW, Hex Hd Cap 1/2-13UNC x 2-1/4 in lg	18
15	20Q270D32	· NUT, Hex 1/2-13UNC	18
16	3616V011	· WASHER, Lock 1/2 in	18
17	3632V006	· WASHER, Flat 1/2 in	18
18	20P1931D1	· SHIM, (#12 Ga x 25 in)	8
19	20P1931D2	· SHIM, (#12 Ga x 23 in)	2
20	20P1931D3	· SHIM, (#12 Ga x 22 in)	10
21	20P1931D4	· SHIM, (#12 Ga x 21 in)	2
22		NOT USED	
23	R38743D1	· PLATE, Skirt	1



COUNTERWEIGHT ASSEMBLY





COUNTERWEIGHT ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	R14397F1	COUNTERWEIGHT ASSEMBLY	
01	R14288D1	· BOX, Counterweight	1
02	R12207D2	· COUNTERWEIGHT, Wing Section	2
03	R12248D2	· COUNTERWEIGHT, Mid Section	2
04	R12109D2	· COUNTERWEIGHT, Center Section	1
05	20P1911D4	· BOLT, Rod 30 in	18
06	18P8607	· WASHER	26
07	20P1911D3	· BOLT, Rod 28 in	4
08	20P1911D5	· BOLT, Rod 22 in	4
--	1011J213F1	· SUPPORT KIT, Counterweight (Not shown)	1

(NOTE: Kit is not included with R14397F1)

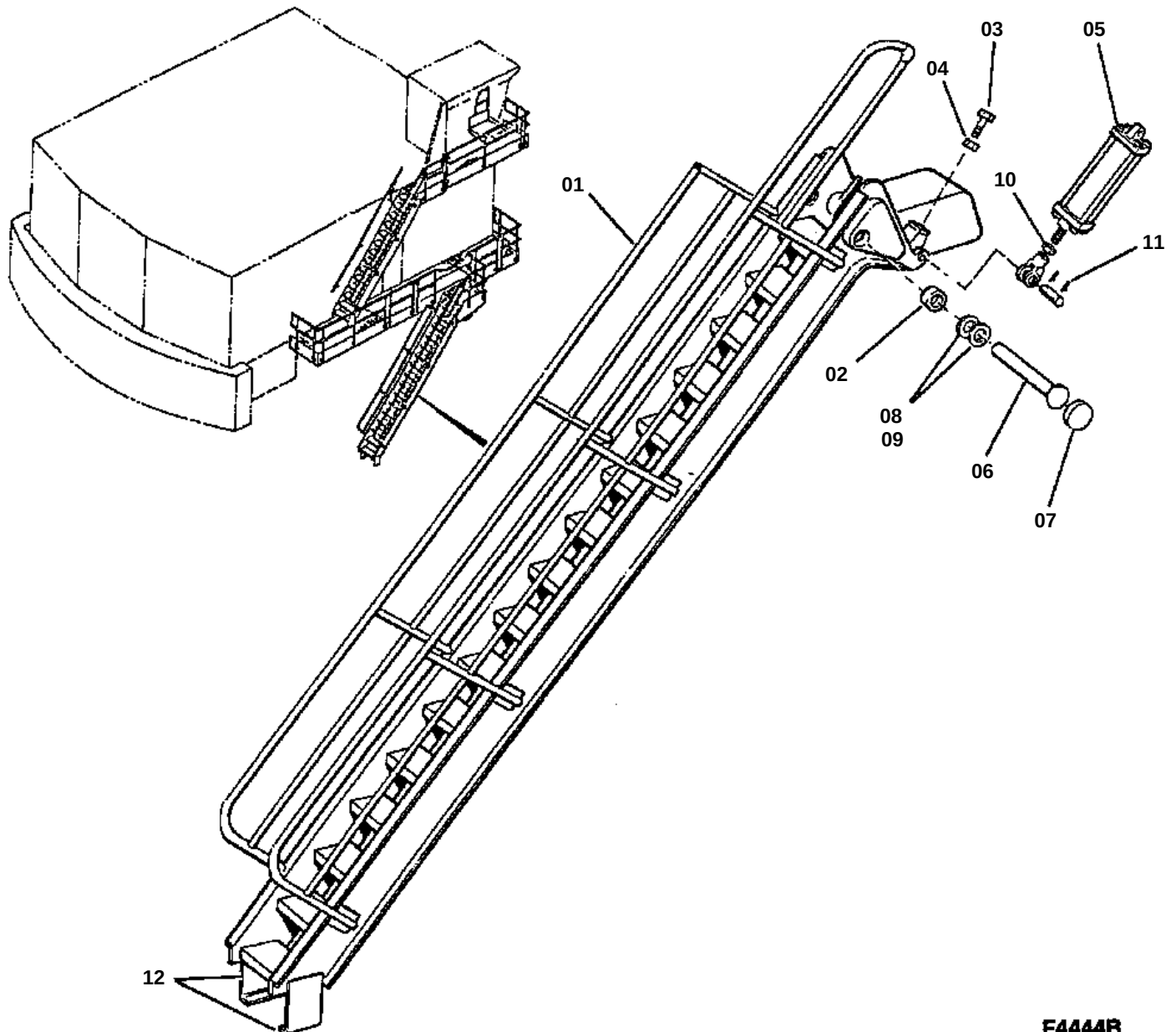


Machine
Serial Number: **4184**

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STAIRWAY, BOARDING, RIGHT-HAND



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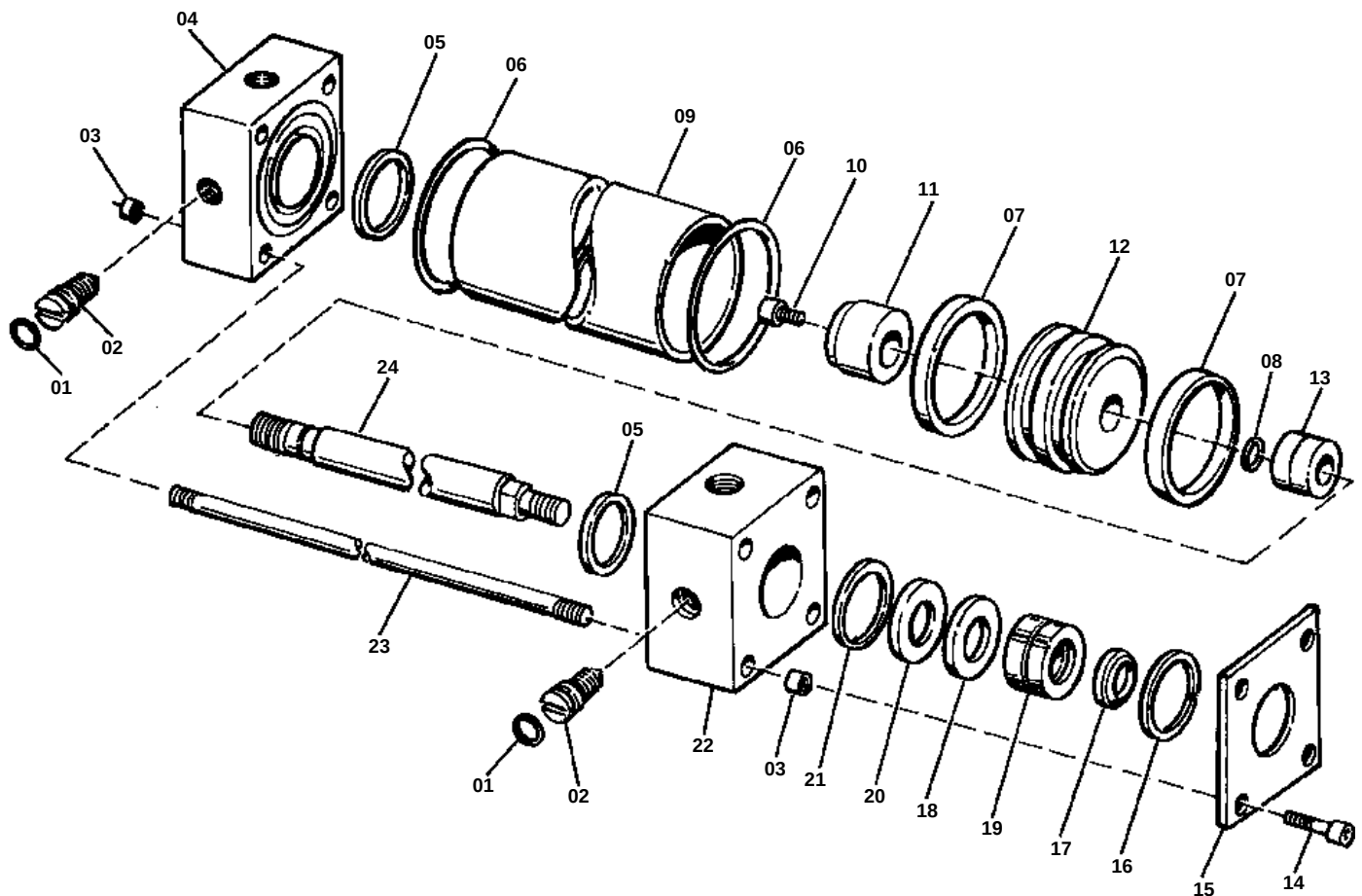
Machine
Serial Number: **4184**

STAIRWAY, BOARDING, RIGHT-HAND

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CYLINDER, AIR



F2882

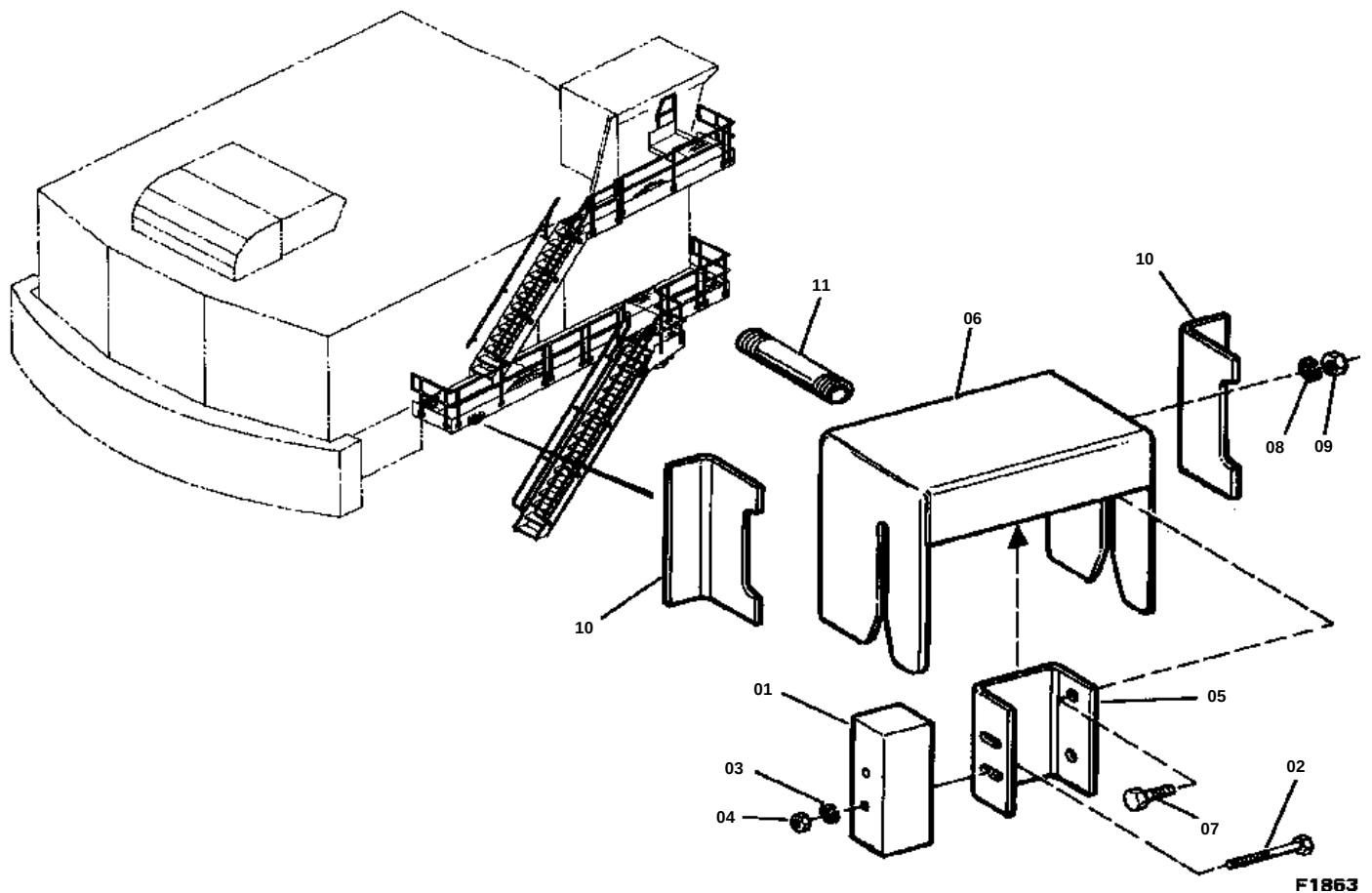


CYLINDER, AIR

REF	PART NO.	DESCRIPTION	QTY
	38Q136	CYLINDER, AIR	
01	1045Z3310	• O-RING	2
02	1020Z11690	• SCREW, Adjusting	2
03	1020Z11691	• NUT, Tie rod	8
04	1038Z600	• HEAD, Blind	1
05	1018Z11580	• SEAL, Blind & Rod heads cushion	2
	1045Z3308	• KIT, Piston seal	1
06		• • O-RING, Tube	2
07		• • SEAL, Piston	2
08		• • O-RING, Piston	1
09	1020Z11713	• TUBE, Cylinder	1
10		• SCREW, Socket hd cap	1
11	1018Z11582	• SLEEVE, End	1
12	1039Z968	• PISTON	1
13	1018Z11577	• SLEEVE, Rod end cushion	1
14		• SCREW, Rod end socket head cap	4
15	1018Z11575	• PLATE, Head	1
16	1018Z11578	• RING, Retaining	1
	1045Z3303	• KIT, Rod seal	1
17		• • WIPER, Rod	1
18		• • PACKING, Rod	1
19	1025Z3916	• BEARING, Rod	1
20	1018Z11576	• SPACER	1
21	1018Z11578	• RING, Retaining	1
22	1038Z599	• HEAD, Rod	1
23	PER SERIAL NO	• ROD, Tie	4
24	PER SERIAL NO	• ROD, Piston	1
	1006Z1719	• CLEVIS, Rod	1
	1019Z2159	• PIN, Pivot	1



LIMIT SWITCH INSTALLATION, RH STAIRWAY



F1863



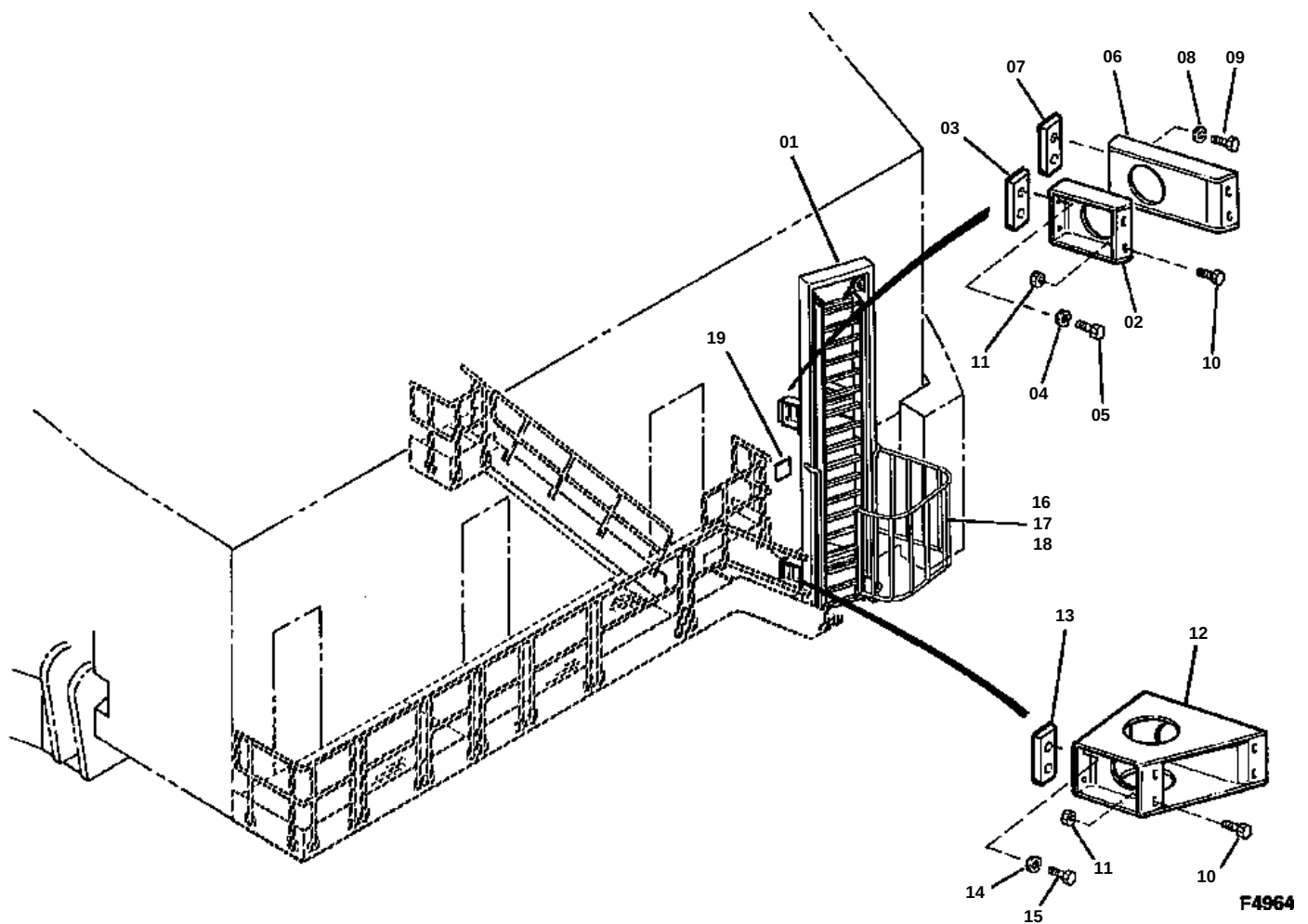
Machine Serial Number: **4184**

LIMIT SWITCH INSTALLATION, RH STAIRWAY

REF	PART NO.	DESCRIPTION	QTY
	979J217F1	LIMIT SWITCH INSTALLATION, RH STAIRWAY	
01	79Z5465D1	• SENSOR SWITCH, Proximity	1
02	0862V106	• SCREW, Pan Hd Mach #10-24UNC x 2 in MPC	2
03	3616V005	• WASHER, Lock #10 MPC	2
04	2136V005	• NUT, Hex #10-24UNC MPC	2
05	16P7046	• BRACKET	1
06	16N3570	• BRACKET	1
07	20Q260D256	• SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in	2
08	3616V009	• WASHER, Lock 3/8 in MPC	2
09	20Q270D24	• NUT, Hex 3/8-16UNC	2
10	16P7047	• ANGLE	2
11	2420V113	• NIPPLE, Pipe 1/2 in standard x 4 in lg	1



LADDER AND HANDRAIL INSTALLATION, LEFT-HAND

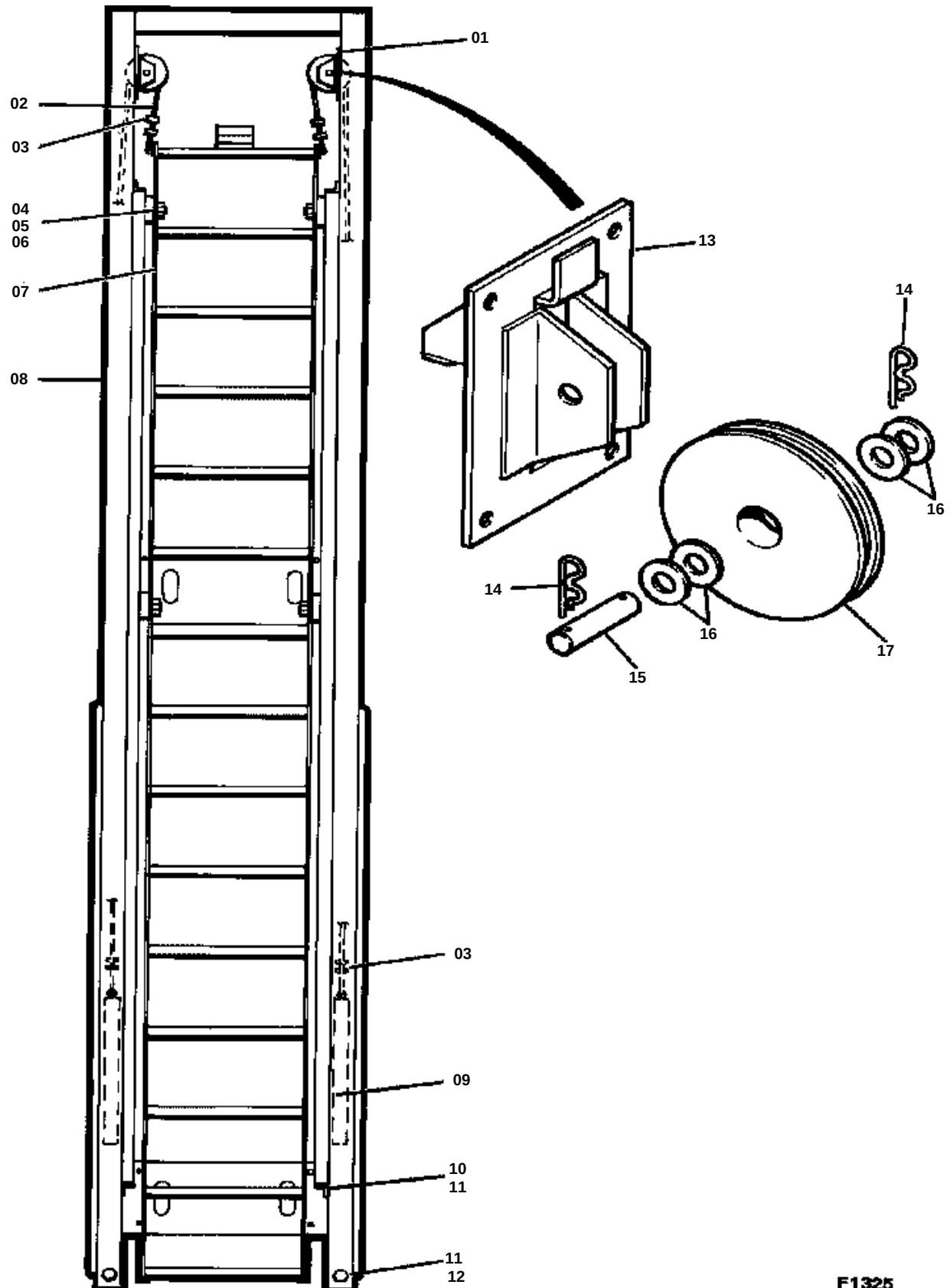


LADDER AND HANDRAIL INSTALLATION, LEFT-HAND

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R2281F3/F5	LADDER AND HANDRAIL INSTALLATION, LEFT-HAND		
01	929J68F6	· LADDER ASSEMBLY	1	1-29
02	16N3757D2F1	· SUPPORT	1	
03	718N233D31	· · PLATE, Tapped	1	
04	3616V013	· · WASHER, Lock 5/8 in	2	
05	20Q260D401	· · SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in	2	
06	16N3758D2F1	· SUPPORT	1	
07	718N233D31	· · PLATE, Tapped	1	
08	3616V013	· · WASHER, Lock 5/8 in MPC	2	
09	20Q260D401	· · SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in	2	
10	20Q260D404	· SCREW, Hex Hd Cap 5/8-11UNC x 2 in	8	
11	20H1614D7	· NUT, Self locking 5/8-11UNC	8	
12	16N3759D1F1	· SUPPORT	1	
13	718N233D31	· · PLATE, Tapped	2	
14	3616V013	· · WASHER, Lock 5/8 in MPC	4	
15	20Q260D401	· · SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in	4	
16	R21691F2	· RAILING, Left-hand	1	
17	20Z1703D98	· SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	4	
18	20Z1704D9	· NUT, Locking Flange 1/2-13UNC	4	
19	32Q1720	· NOTICE, Ladder	2	



LADDER ASSEMBLY, BOARDING



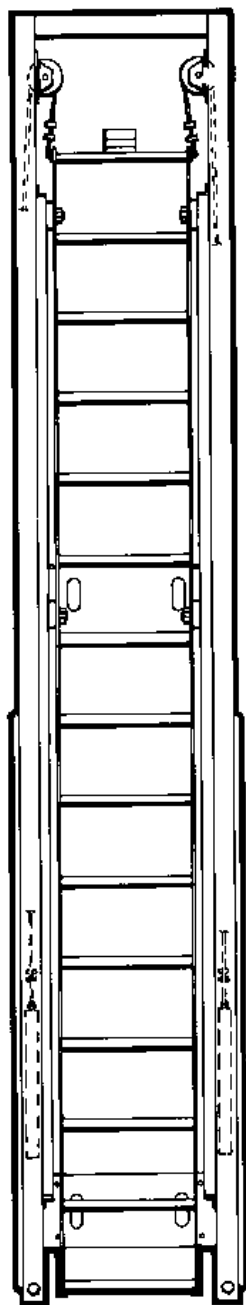
F1325

LADDER ASSEMBLY, BOARDING

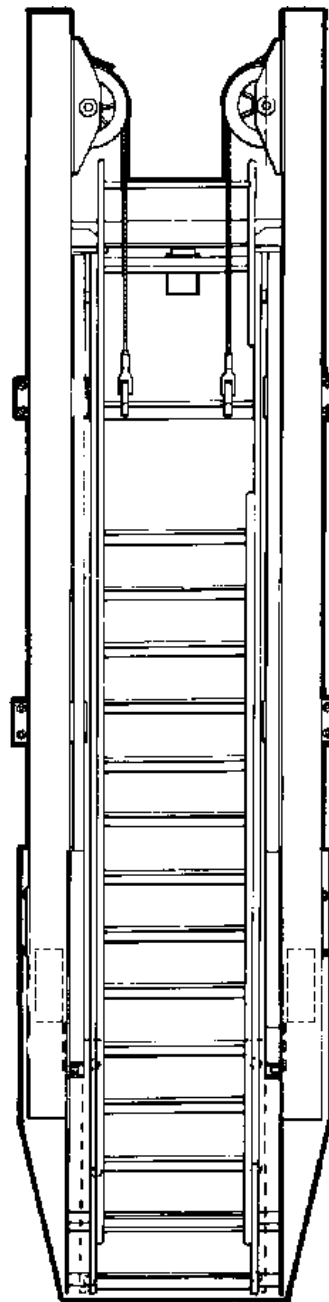
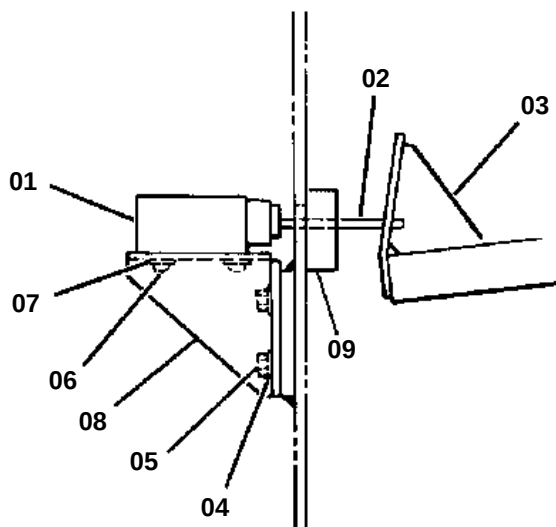
REF	PART NO.	DESCRIPTION	QTY
	929J68F6	LADDER ASSEMBLY, BOARDING	
01	20Z1703D69	· SCREW, Flanged hd locking 3/8-16UNC X 3/4in	16
02		· ROPE, Tiller Type #2 5/16in Dia X 15ft lg	2
03		· CLAMP, Rope,2	
04	2049V012	· NUT, Hex 1-1/4-12UNF	4
05	3615V019	· WASHER, Lock 1-1/4in	4
06	13Z263D1	· ROLLER, Idler	4
07	29N565D1	· LADDER	1
08	16J1506D1	· FRAME, Ladder	1
09	21-929J68	· COUNTERWEIGHT, Ladder	2
10	16P6837	· STOP, End	2
11	20Z646D113	· SCREW, Hex hd cap 5/8-11UNC X 7-1/2in lg	2
12	20H1614D7	· NUT, Stop 5/8-11UNC	2
	907N23F1	· SHEAVE ASSEMBLY, Ladder	2
13	16N3417	· · BRACKET, Sheave	1
14	19Z297D1	· · PIN, Retainer	2
15	19F50D65	· · PIN	1
16	3631V009	· · WASHER	4
17	7T360F1	· · SHEAVE	1
	5T3180	· · · BUSHING, Sheave	1



INSTALLATION, LADDER LIMIT SWITCH



L.H. LADDER



R.H. LADDER

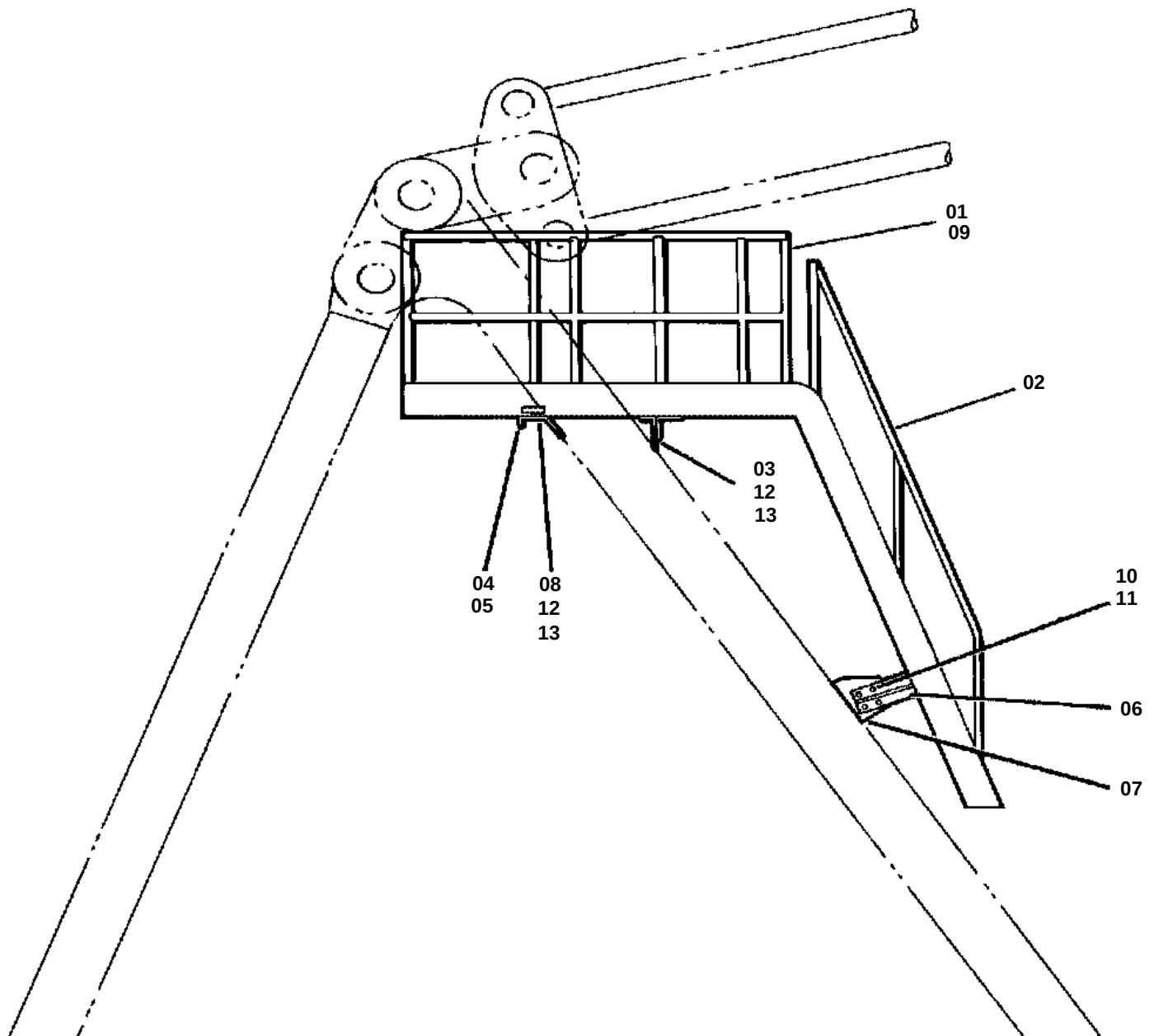
F4339

INSTALLATION, LADDER LIMIT SWITCH

REF	PART NO.	DESCRIPTION	QTY
	979J246F1	INSTALLATION, LADDER LIMIT SWITCH	
01	79Z3192	· SWITCH, Limit	1
02	1017Z1804	· · SPRING, Limit switch	1
03	716N166D1	· BRACKET, Actuator	1
04	3616V009	· WASHER, Lock 3/8 in	4
05	20Q260D255	· SCREW, Hx hd cap 3/8-16UNC X 5/8 in	4
06	0861V030	· SCREW, Rd hd mach #10-32UNC X 1/2 in	2
07	3616V005	· WASHER, Lock #10	2
08	16N3445	· BRACKET, Limit switch	8
09	16T8148D2	· CAP, Drip	1



PLATFORM, GANTRY

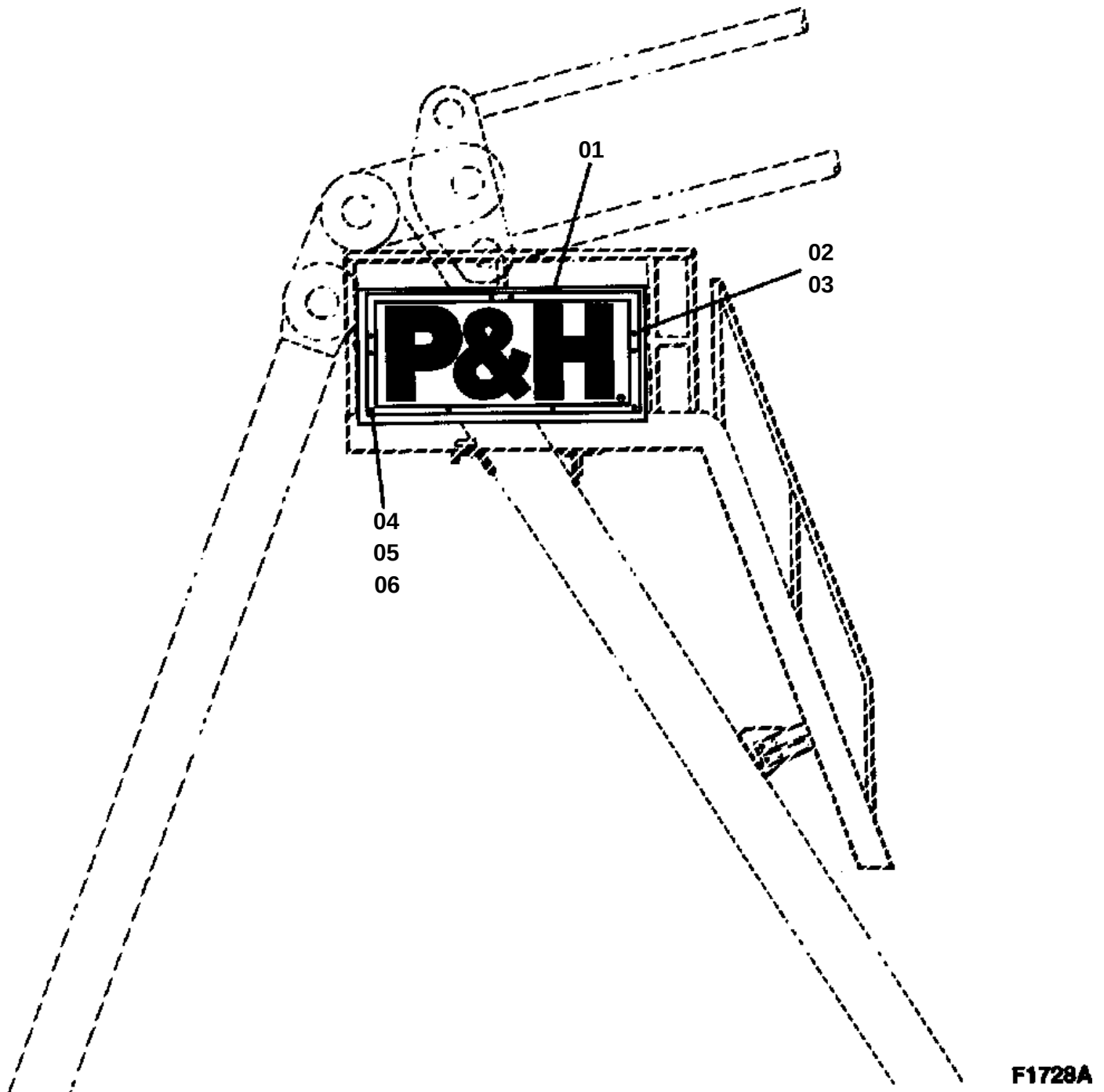


PLATFORM, GANTRY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	911J356F1	PLATFORM, GANTRY		
01	11J4023D1	• PLATFORM, Gantry	1	
02	11J3805	• LADDER	1	
03	16T9206	• SUPPORT	2	
04	16P6790D1	• SUPPORT	1	
05	16P6790D2	• SUPPORT	1	
06	16P7008	• SUPPORT	2	
07	16P7009	• SUPPORT	1	
08	20T8058D6	• BRACE	6	
09		NOT USED	0	
10	20Q260D403	• SCREW, Hex hd cap 5/8-11UNC X 1-3/4in lg	4	
11	20H1614D7	• NUT, Stop 5/8-11UNC	4	
12	20Q260D447	• SCREW, Hex hd cap 3/4-10UNC X 1-3/4in lg	20	
13	20H1614D8	• NUT, Stop 3/4-10UNC	20	
14	1032J6F1	• INSTALLATION, Trademark	1	1-32



INSTALLATION, TRADEMARK





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INSTALLATION, TRADEMARK

REF	PART NO.	DESCRIPTION	QTY
	1032J6F1	INSTALLATION, TRADEMARK	
01	32P431	· PLATE, Trademark	2
--	32U668	· · DECAL, "P&H"	1
02	3631V006	· WASHER, Plain 5/16 in	12
03	32Z171D4	· CLAMP	6
04	20Q260D260	· SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	8
05	3631V007	· WASHER, Plain 3/8 in	8
06	20H1614D4	· NUT, Self Lock 3/8-16UNC	8



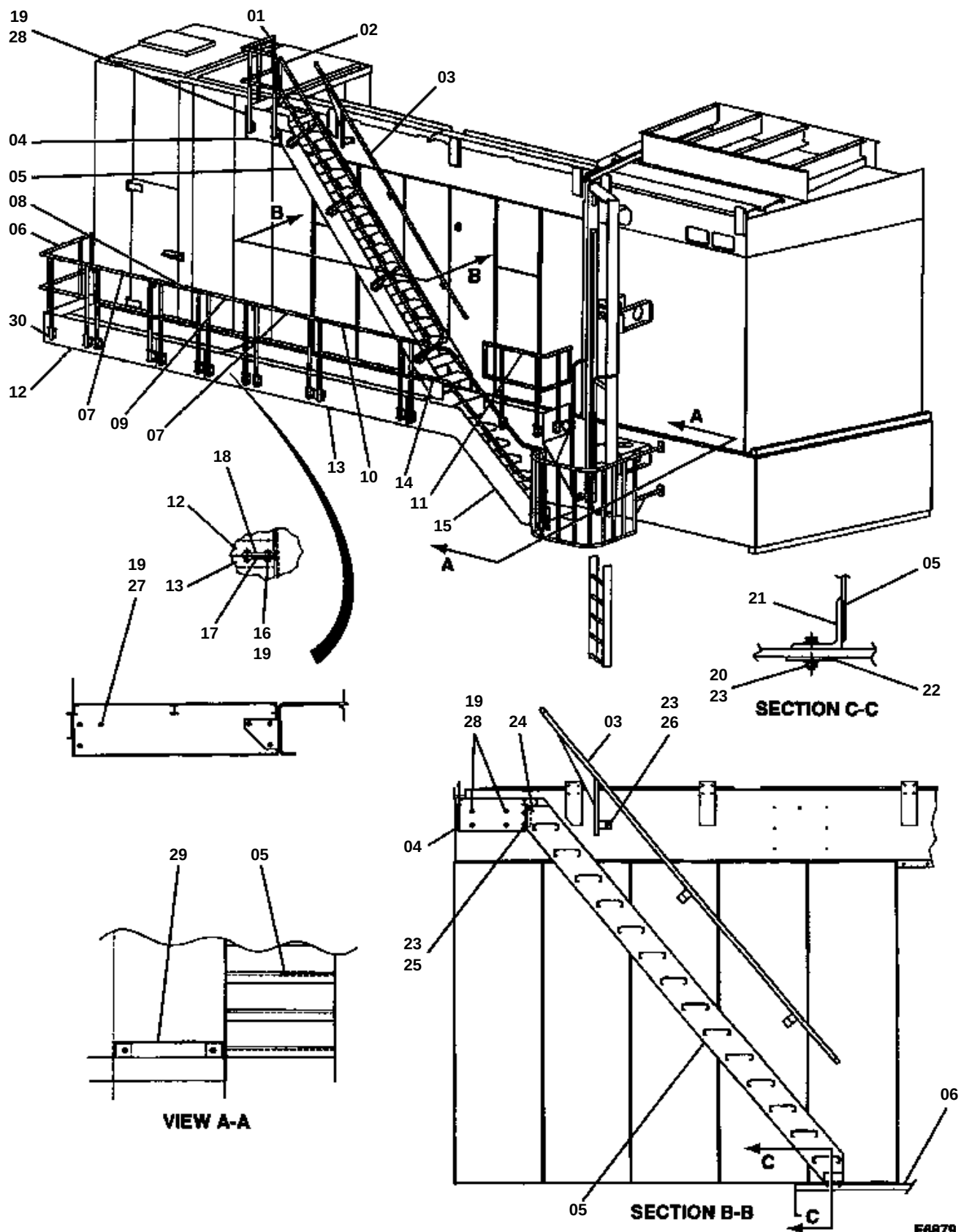
Machine
Serial Number: **4184**

Catwalks, House

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R33800F1	CATWALKS & RAILINGS, HOUSE		
(Not illustrated)				
01	R33801F1	• CATWALKS, House - Right Hand	1	1-35
02	R33801F2	• HANDRAILS, House Catwalks - Right Hand	1	1-35
03	R33803F1	• HANDRAILS, House Roof	1	1-36
04	R33802F1	• CATWALKS, House - Left Hand	1	1-34
05	R33802F2	• HANDRAILS, House Catwalks - Left Hand	1	1-34



CATWALKS AND HANDRAILS, LEFT-HAND



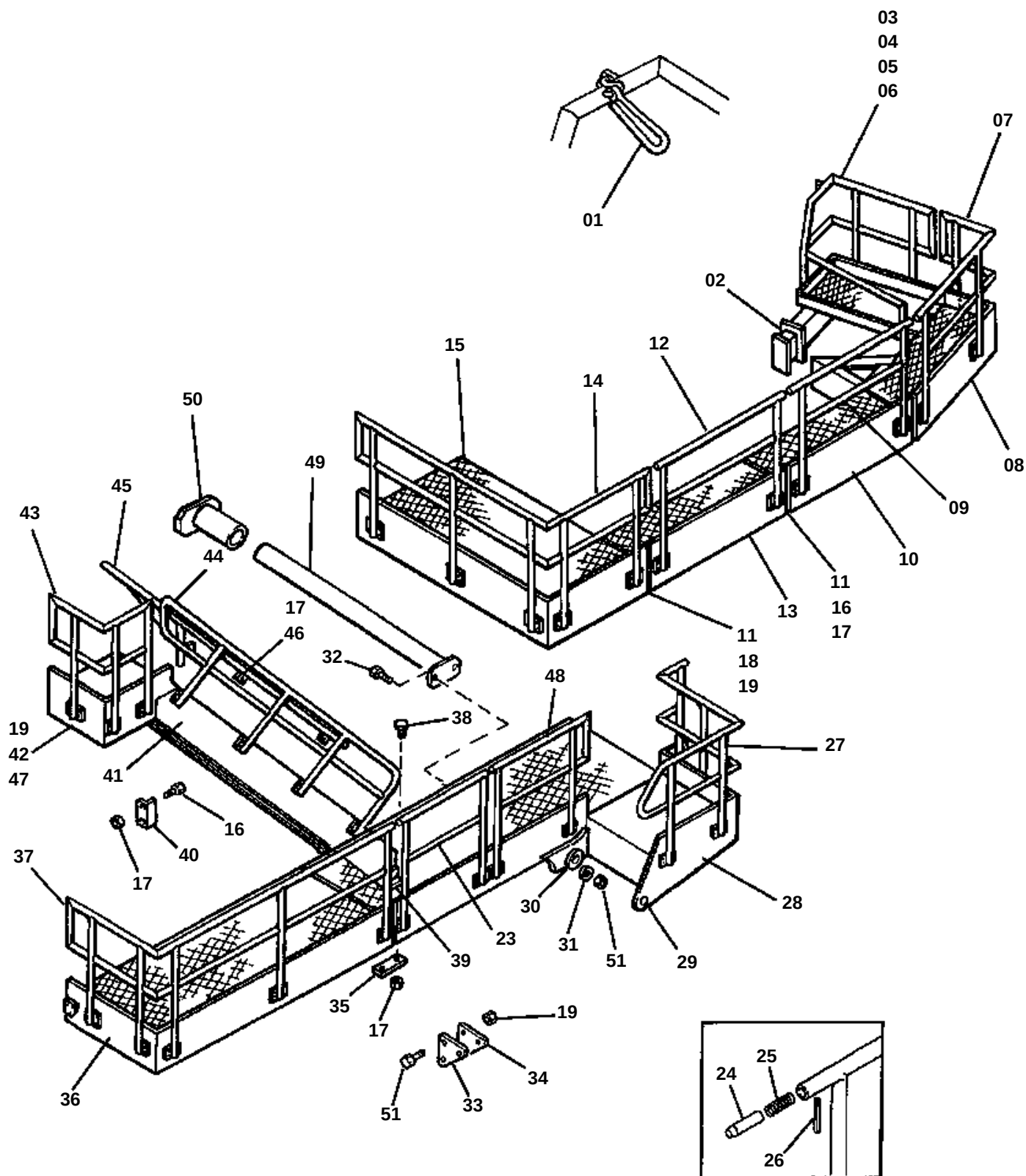


CATWALKS AND HANDRAILS, LEFT-HAND

REF	PART NO.	DESCRIPTION	QTY
	R33802F1/F2	CATWALKS AND HANDRAILS, LEFT-HAND	
01	11N2950D1	• HANDRAIL	1
02	11N2945D2	• HANDRAIL-Outside	1
03	11N2946D2	• HANDRAIL, Inner oper. coop stairway (Not Shown)	1
04	11J3812D1	• WELDMENT, Catwalk-L.H. Upper	1
05	11J3809D2	• STAIRWAY, Operator's coop	1
06	11N2951D1	• HANDRAIL	1
07	11N2947F1	• HANDRAIL, Removeable	2
08	11N2949D2	• HANDRAIL	1
09	11N2949D1	• HANDRAIL	1
10	R50803D1	• HANDRAIL	1
11	11N2944D1	• HANDRAIL, Boarding stairway	1
12	11J3811F1	• WELDMENT, Catwalk	1
13	R50802F1	• WELDMENT, Catwalk	1
14	11N2943D1	• HANDRAIL, Boarding stairway	1
15	11J3808D1F1	• STAIRWAY, Boarding	1
16	20Q260D452	• SCREW, Hex hd cap, 3/4 in. -10UNC x 3 in.	8
17	11P2429D1	• PLATE, Mounting	2
18	11P2429D2	• PLATE, Mounting	2
19	20H1614D8	• NUT, Self locking	20
20	20Z1703D101	• SCREW, Flanged Lock 1/2-13UNC x 2 in	5
21	16T9353	• PLATE, Mounting	2
22	11T1402	• PLATE, Back-up	2
23	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	AR
24	11T1411	• PLATE, Mounting	2
25	20Z1703D98	• SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	AR
26	20Z1703D99	• SCREW, Flanged Lock 1/2-13UNC x 1-1/2 in	5
27	20Q260D449	• SCREW, Hex hd cap, 3/4 in. -10UNC x 2-1/4 in.	8
28	20Q260D447	• SCREW, Hex hd cap, 3/4 in. -10UNC x 1-3/4 in.	5
29	16P7042F1	• BRACE	1
30	11P2433D1	• RETAINER, Handrail	4



CATWALKS AND HANDRAILS, RIGHT-HAND



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CATWALKS AND HANDRAILS, RIGHT-HAND

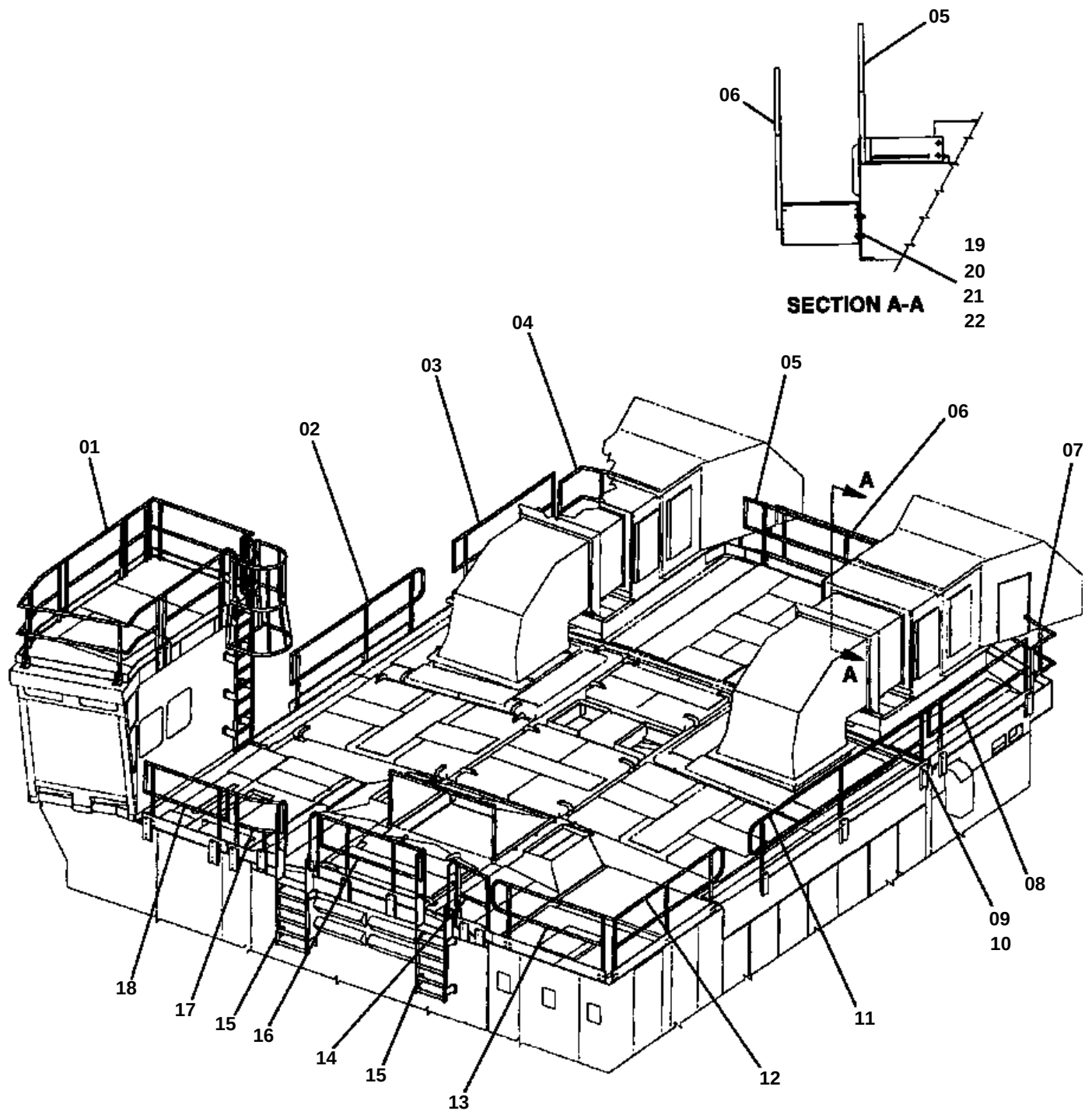
REF	PART NO.	DESCRIPTION	QTY
	R33801F1/F2	CATWALKS AND HANDRAILS, RIGHT-HAND	
01	18Z3505D2	· TIE DOWN, Rubber	1
02	11P2600D1	· SUPPORT, Pivotal Catwalk	1
03	11J3893D1	· CATWALK, Pivotal	1
04	20Q260D615	· SCREW, Hex Hd Cap 1-1/4-7UNC x 3-1/2 in	3
05	20Q270D80	· NUT, Hex 1-1/4-7UNC	3
06	20Q272D80	· NUT, Hex 1-1/4-7UNC	3
07	11N3153D1	· HANDRAIL	1
08	11J4098D1	· CATWALK, Front	1
09	11N3154D1	· HANDRAIL	1
10	11J4097D1	· CATWALK, Center	1
11	20P1991D1	· SHIM	6
12	11N3155D1	· HANDRAIL	1
13	11J4096D1	· CATWALK, Rear	1
14	11J4100D1	· HANDRAIL	1
15	11J4095D1	· CATWALK, Rear Landing	1
16	20Z1703D98	· SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	175
17	20Z1704D9	· NUT, Locking Flange 1/2-13UNC	190
18	20Q260D449	· SCREW, Hex Hd Cap 3/4-10UNC x 2-1/4 in	40
19	20H1614D8	· NUT, Self locking 3/4-10UNC	60
20		NOT USED	
21		NOT USED	
22	11P2433	· HANDRAIL, Retainer	2
23	11N2947F1	· HANDRAIL, Removable	1
24	11P1865	· · BOLT, Sliding	2
25	17Z640	· · SPRING, Compression	2
26	19Z8D161	· · SPRING, Pin 1/2 dia x 4 in lg	2
27	11N2954D1	· HANDRAIL	1
28	11J4070D1F1	· CATWALK, Weldment	1
29	5P313D1	· · BUSHING, 2 in I.D. x 1.98 in long	1
30	5P313D3	· · BUSHING, 2 in I.D. x 3.23 in long	1
31	3632V009	· WASHER, Plain 3/4 in	3
32	20Q260D450	· SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	4
33	11P2429D1	· PLATE, Mounting	1
34	11P2429D2	· PLATE, Mounting	1
35	11T1402	· PLATE, Back Up	2
36	11J3816F1	· CATWALK, Weldment	1

CATWALKS AND HANDRAILS, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY
37	11J3821D1	· HANDRAIL, Boarding Stairway	1
38	20Z1703D101	· SCREW, Flanged Lock 1/2-13UNC x 2 in	10
39	16T9353	· ANGLE, Mounting	2
40	11T1411	· ANGLE, Mounting	2
41	11J3809D2	· STAIRWAY	1
42	11J3812D1	· CATWALK, Weldment	1
43	11N2950D1	· HANDRAIL	1
44	11N2945D2	· HANDRAIL, Stairway Outboard	1
45	11N2946D2	· HANDRAIL, Stairway Inboard	1
46	20Z1703D99	· SCREW, Flanged Lock 1/2-13UNC x 1-1/2 in	4
47	20Q260D447	· SCREW, Hex Hd Cap 3/4-10UNC x 1-3/4 in	5
48	11N2953D1	· HANDRAIL	1
49	R45995D1	· EXTENSION, Support	1
50	R45996D1	· BASE, Support	1
51	20Q260D452	· SCREW, Hex Hd Cap 3/4-10UNC x 3 in	10



CATWALKS AND HANDRAILS, HOUSE ROOF



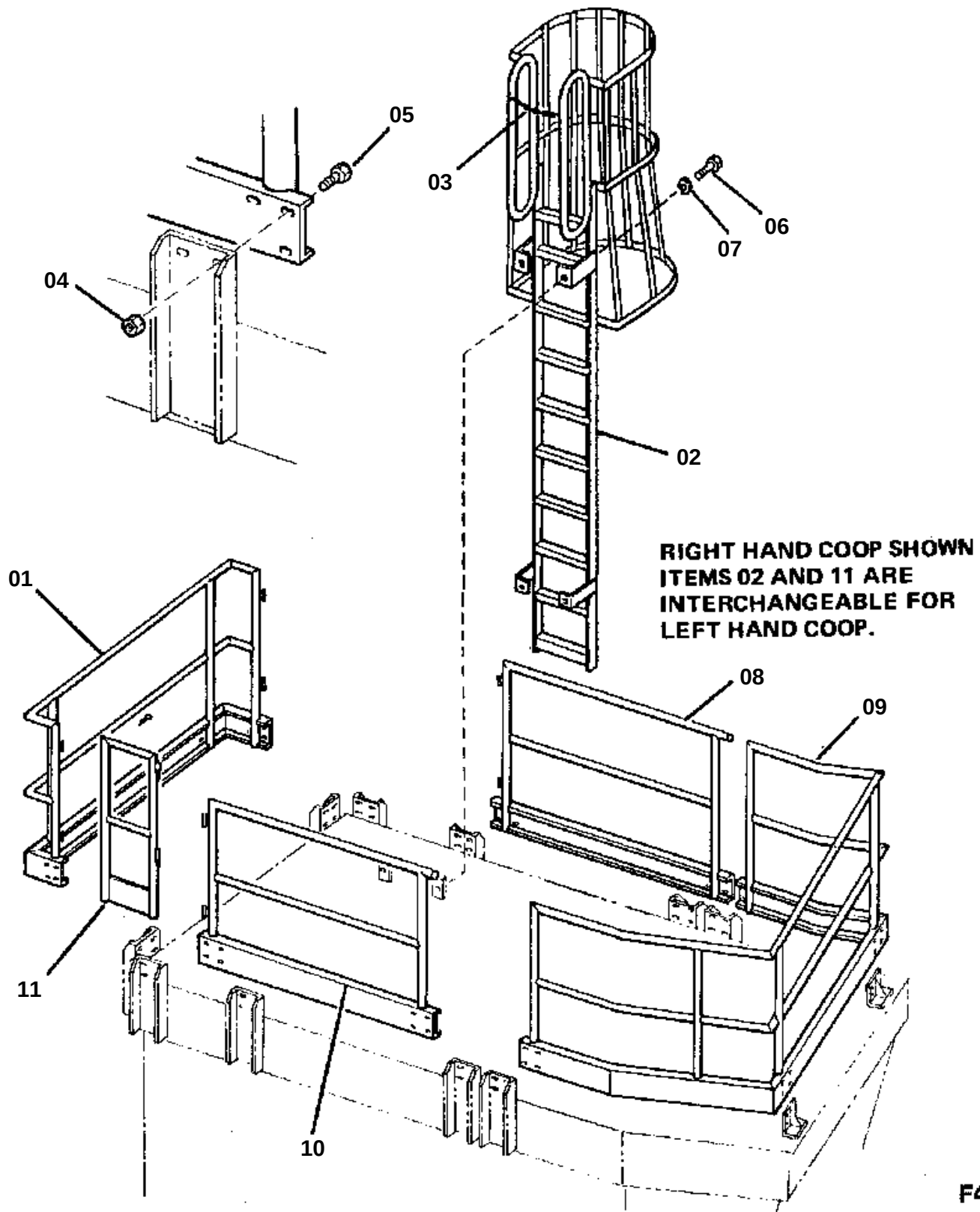
F6880

CATWALKS AND HANDRAILS, HOUSE ROOF

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R33803F1	CATWALKS AND HANDRAILS, HOUSE ROOF		
01	911J395F1	• HANDRAIL INSTALLATION, Coop	1	1-37
02	11J4106D1	• RAIL	1	
03	11J4047D1	• RAIL	1	
04	11N3107D1	• CATWALK, RH Side Rear Roof	1	
05	R15180D1	• RAIL	1	
06	11N3106D1	• CATWALK, Center Rear Roof	1	
07	11N3107D2	• CATWALK, LH Side Rear Roof	1	
08	11J4047D2	• RAIL	1	
09	20Z1703D98	• SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	125	
10	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	125	
11	11J4046D2	• RAIL	1	
12	11J3852	• RAIL	1	
13	11J4048D1	• RAIL	1	
14	11J4112D1	• RAIL	1	
15	29J344D1F1	• LADDER, Boom Access	2	
16	11J4110D1	• RAIL	1	
17	11J4108D1	• RAIL	1	
18	11J4045D1	• HANDRAIL, RH Room Front	1	
19	20Q260D450	• SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	36	
20	20Q270D48	• NUT, Hex 3/4-10UNC	36	
21	3643V016	• WASHER, Lock 3/4 in	36	
22	18Z694D8	• WASHER, Hardened 3/4 in	72	
23	911N111F1	• RAIL, Hoist Rope Guard (Not Shown)	1	



HANDRAIL INSTALLATION, COOP



F4049A

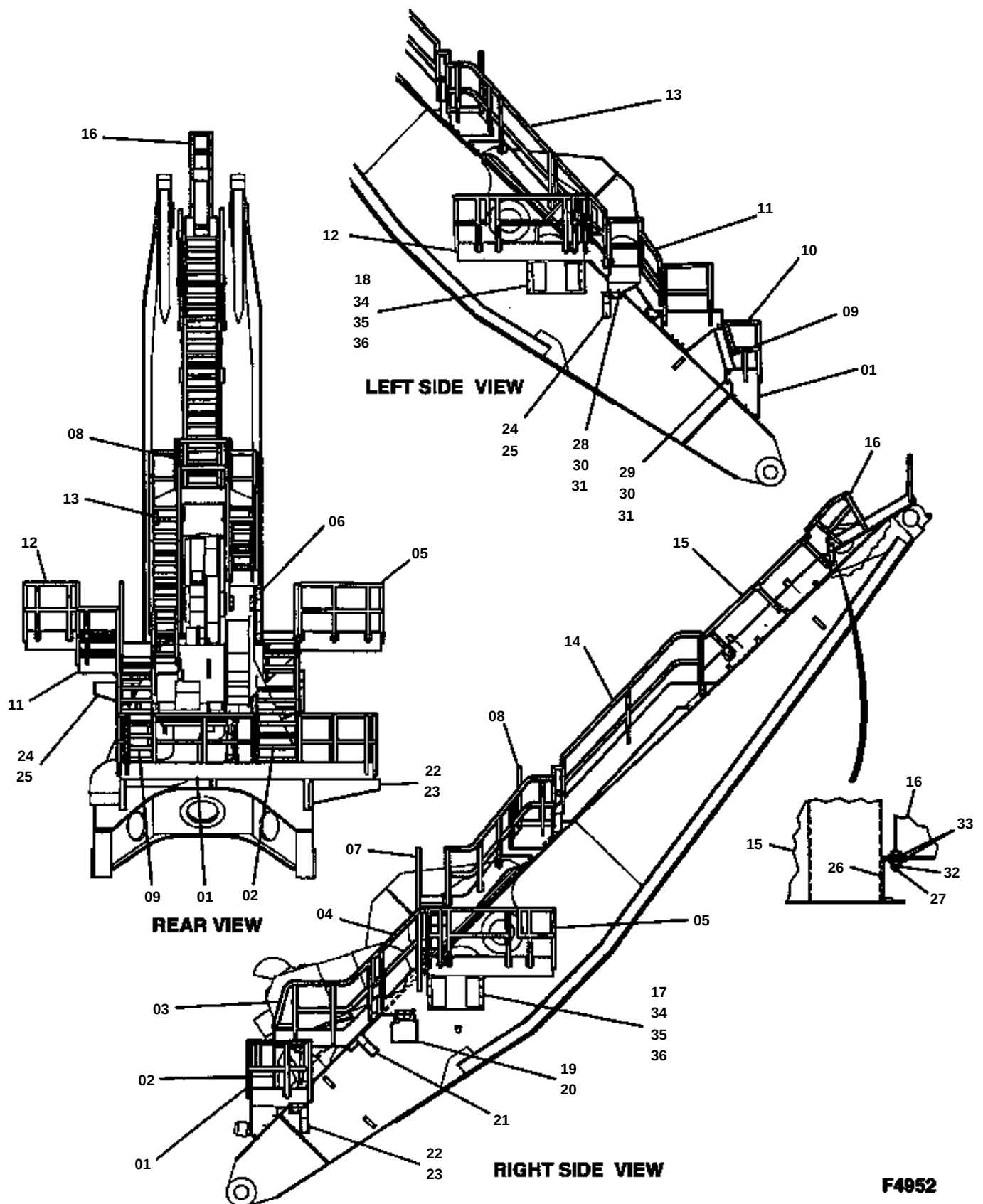


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REF	PART NO.	DESCRIPTION	QTY
	911J395F1	HANDRAIL INSTALLATION, COOP	
01	11J4101D1	• HANDRAIL, Rear	1
02	29J338D1	• LADDER	1
03	20T9706D6	• • CHAIN	1
04	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	48
05	20Z1703D98	• SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	48
06	20Q260D401	• SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in	8
07	3616V013	• WASHER, Lock 5/8 in	8
08	11J4105D1	• HANDRAIL, Left Hand Side	1
09	11J4103D1	• HANDRAIL, Front Right Hand	1
10	11J4105D2	• HANDRAIL, Right Hand Side	1
11	11N3086D1	• HANDRAIL, Gate	1
12	19Z297D2	• PIN, Cotter	4



PLATFORM, CROWD



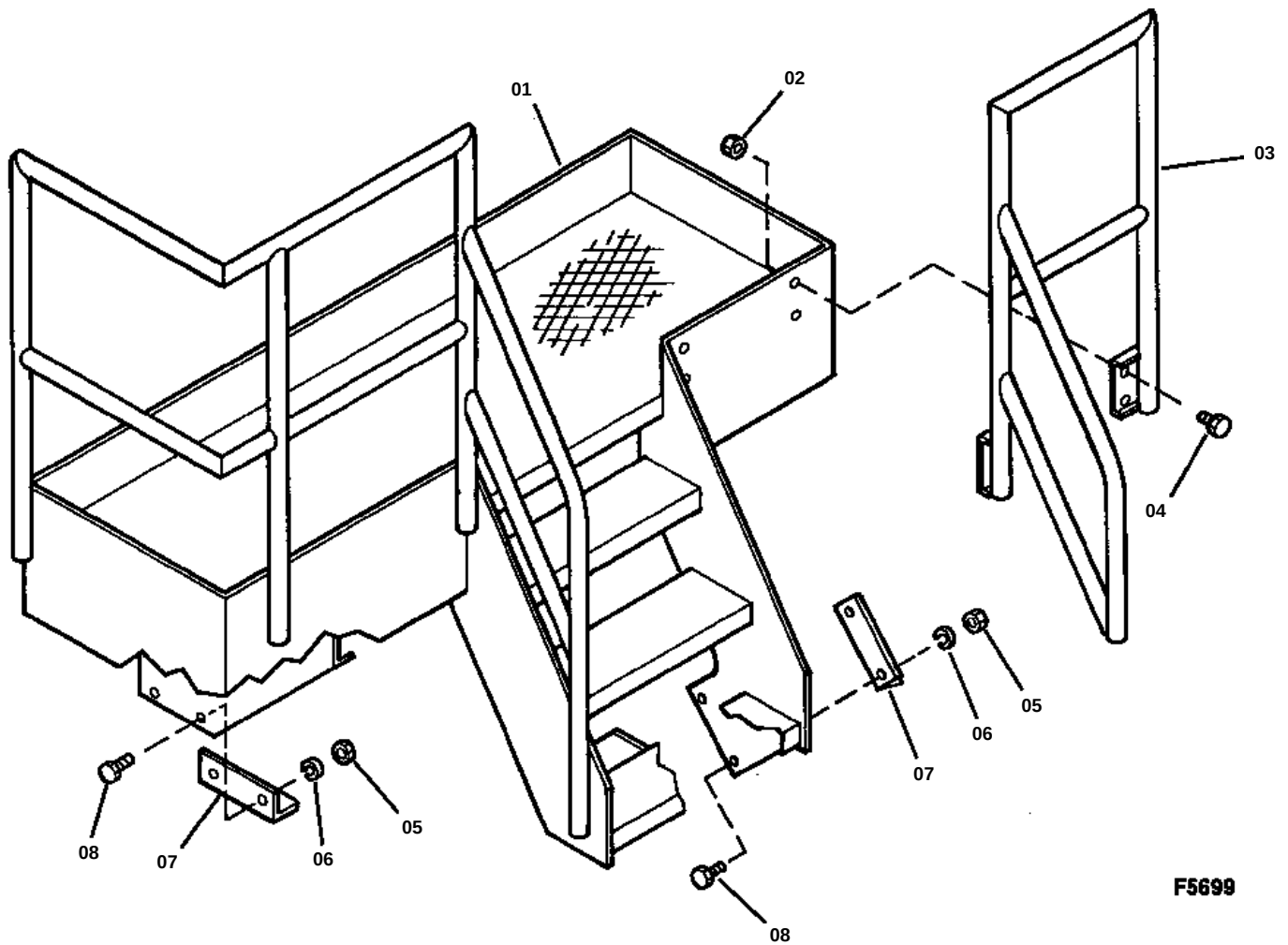


PLATFORM, CROWD

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R2585F1	PLATFORM, CROWD		
01	R50408F1	• CATWALK, Boom	1	
02	11N2963	• LADDER, Boom	1	
03	11J4116D1F1	• CATWALK, Boom	1	
04	11J4128D1F1	• CATWALK, Boom	1	
05	11J4019D1F1	• CATWALK, Boom	1	
06	11J4013D1F1	• LADDER, Boom	1	
07	11J3929F1	• STAIRWAY, Boom	1	
08	R2581F1	• CATWALK, Boom	1	
09	11N2964	• LADDER, Boom	1	
10	11J4114D1F1	• CATWALK, Boom	1	
11	11J3838F1	• CATWALK, Boom	1	1-39
12	11J4117D1F1	• CATWALK, Boom	1	
13	11J4115D1F1	• STAIRWAY, Boom	1	1-40
14	R2584F1	• STAIRWAY, Boom	1	
15	R2583F1	• STAIRWAY, Boom	1	
16	R2582D1	• RAMP, Barrier	1	
17	R25531D1	• BRACKET, Mounting, Upper Platform, Right-hand	1	
18	R25532D1	• BRACKET, Mounting, Upper Platform, Left-hand	1	
19	11N3190D1	• BRACKET, Mounting	1	
20	11N3191D1	• SUPPORT, Catwalk	1	
21	11N2988D1	• SUPPORT, Catwalk	1	
22	11N2984D1	• BRACKET, Mounting	1	
23	11J3861D1	• SUPPORT, Catwalk	1	
24	11N2984D2	• BRACKET, Mounting	1	
25	11N2989D2	• SUPPORT, Catwalk	1	
26	16P7207D1	• BRACKET, Mounting	2	
27	20Q260D448	• SCREW, Hex Hd Cap 3/4-10UNC x 2 in	2	
28	20Q260D450	• SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	14	
29	20Q260D447	• SCREW, Hex Hd Cap 3/4-10UNC x 1-3/4 in	30	
30	20Q270D48	• NUT, Hex 3/4-10UNC	44	
31	3616V015	• WASHER, Lock 3/4 in	44	
32	20Q272D48	• NUT, Hex 3/4-10UNC	4	
33	3632V009	• WASHER, Plain 3/4 in	4	
34	20Q260D541	• SCREW, Hex Hd Cap 1-8UNC x 3-1/2 in.	16	
35	20H1614D10	• NUT, Hex 1-8UNC	16	
36	18Z694D10	• WASHER, Hardened 1 in.	16	



CATWALK, BOOM



F5699



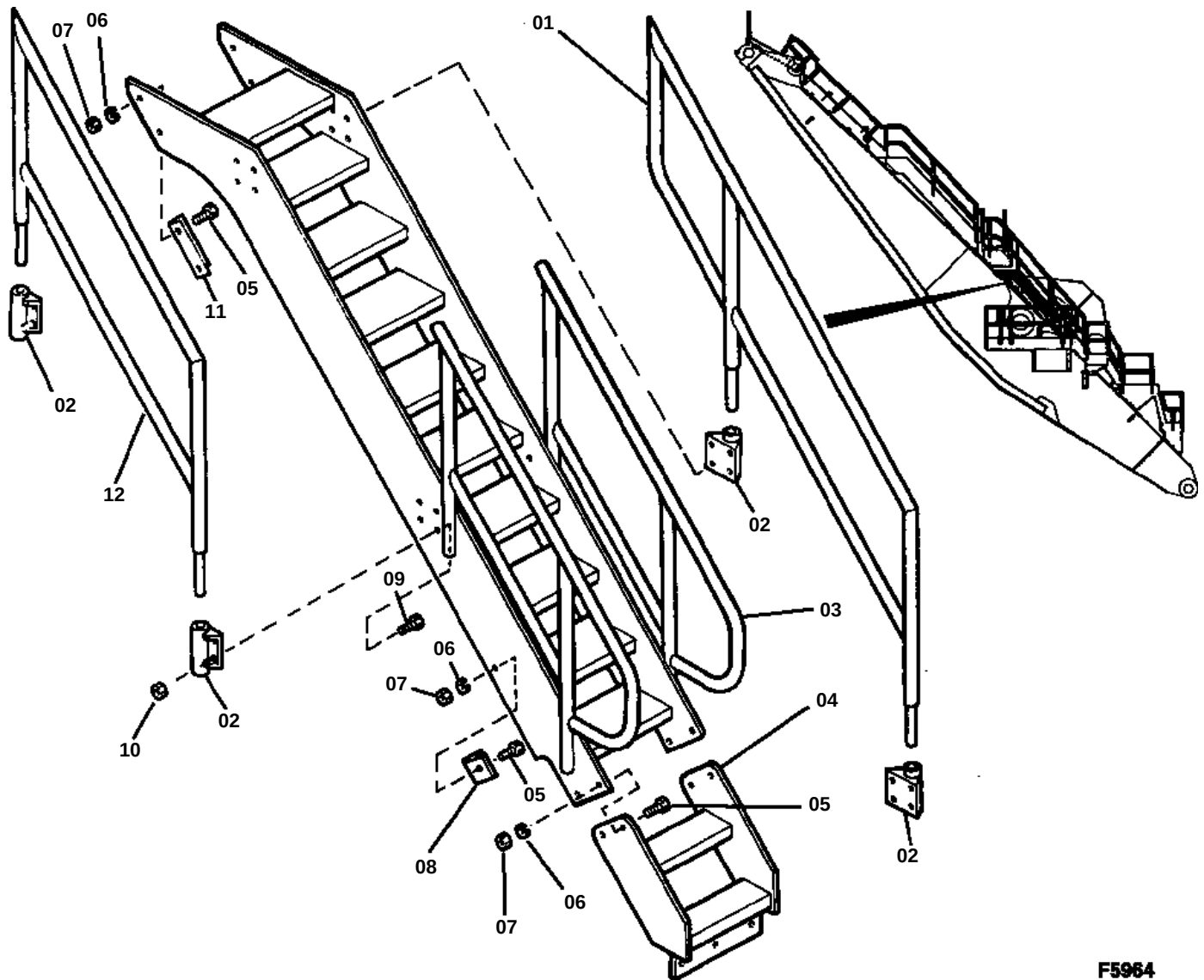
Machine
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CATWALK, BOOM

REF	PART NO.	DESCRIPTION	QTY
	11J3838F1	CATWALK, BOOM	
01	11J3838	• WELDMENT, Catwalk	1
02	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	4
03	11N3150D1	• HANDRAIL	1
04	20Z1703D98	• SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	4
05	20Q270D48	• NUT, Hex 3/4-10UNC	8
06	3616V015	• WASHER, Lock 3/4 in	8
07	16N3348D122	• ANGLE, Mounting	4
08	20Q260D447	• SCREW, Hex Hd Cap 3/4-10UNC x 1-3/4 in	8



STAIRWAY, BOOM



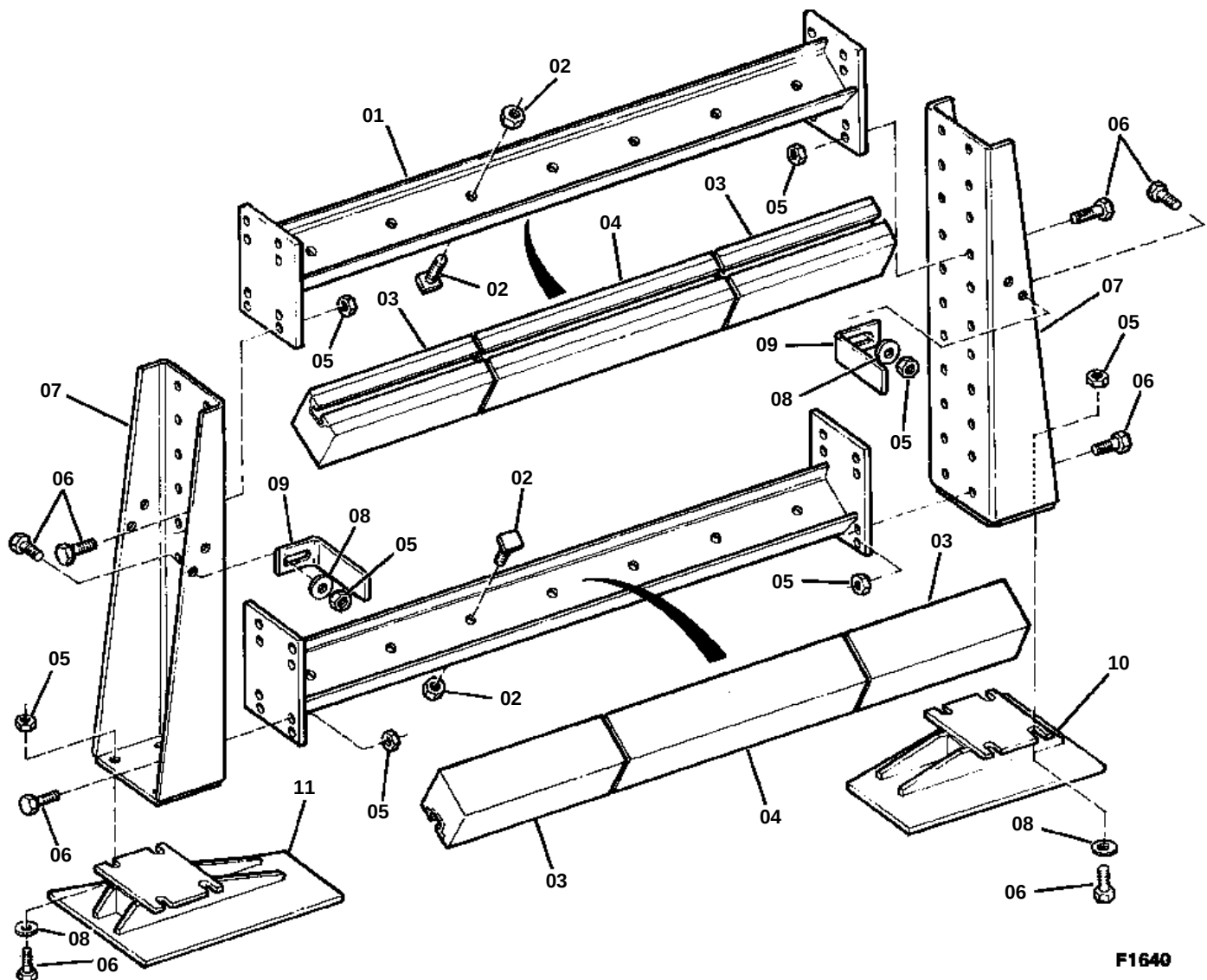
F5984

STAIRWAY, BOOM

REF	PART NO.	DESCRIPTION	QTY
	11J4115D1F1	STAIRWAY, BOOM	
01	11N3036	· HANDRAIL, Upper Right Hand	1
02	11P1772	· RETAINER, Handrail	4
03	11J4113D1	· STAIRWAY, Weldment	1
04	11N3175D1	· STEP, Stairway	1
05	20Q260D447	· SCREW, Hex Hd Cap 3/4-10UNC x 1-3/4 in	10
06	3616V015	· WASHER, Lock 3/4 in	10
07	20Q270D48	· NUT, Hex 3/4-10UNC	10
08	16N3348D149	· ANGLE, Mounting	2
09	20Z1703D98	· SCREW, Flanged Lock 1/2-13UNC x 1-1/4 in	16
10	20Z1704D9	· NUT, Locking Flange 1/2-13UNC	16
11	16N3348D132	· ANGLE, Mounting	2
12	11N3037	· HANDRAIL, Upper Left Hand	1



GUIDE, HOIST ROPE



F1640



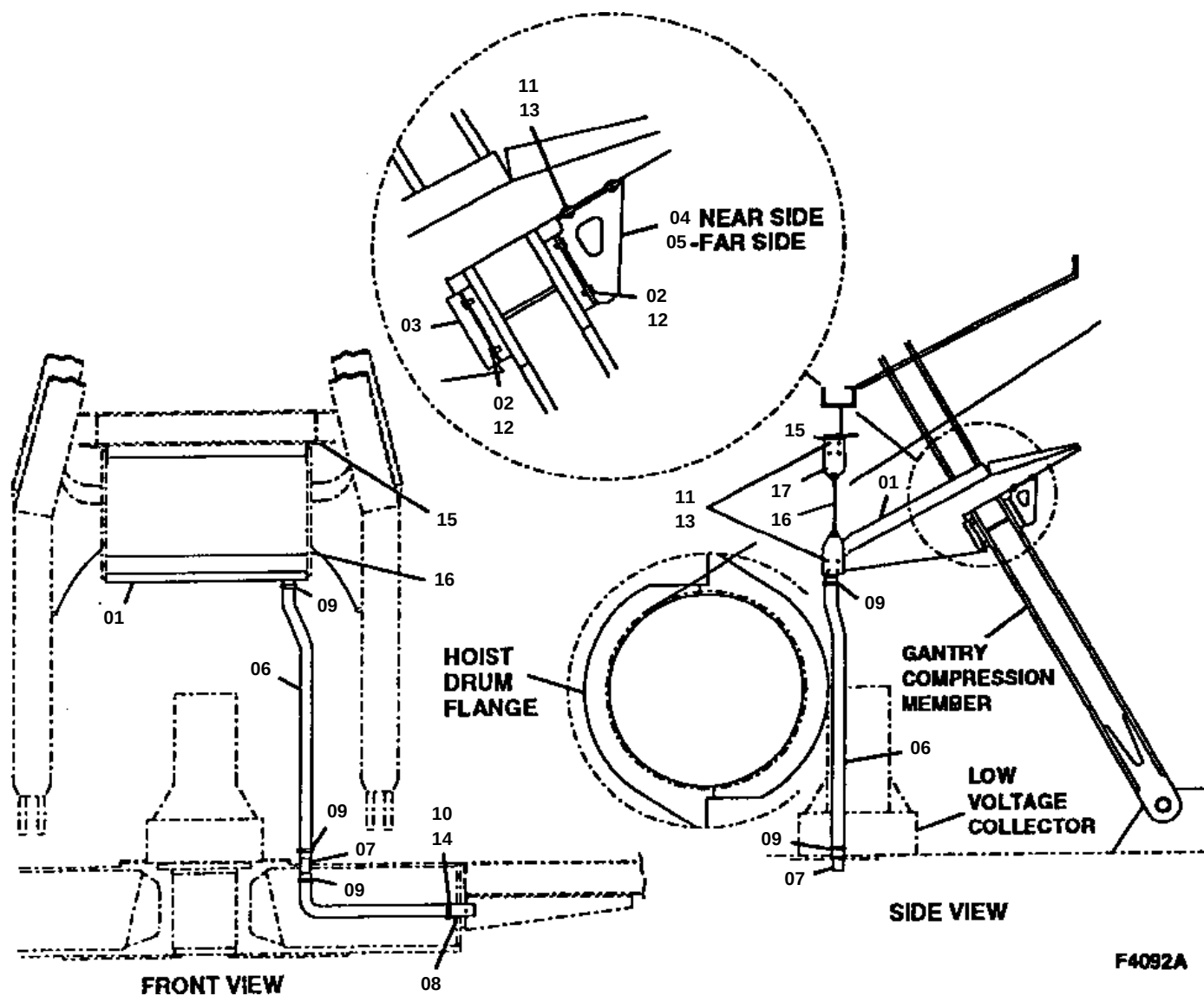
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GUIDE, HOIST ROPE

REF	PART NO.	DESCRIPTION	QTY
	100J6188F2	GUIDE, HOIST ROPE	
01	16N3515D2	· BRACKET, Mounting	2
02	20Z2118D1	· "T" Bolt with Locknut 3/4-10UNC x 2-1/2 in	14
03	16T8385D1	· LINER, Guide	4
04	16T8385D2	· LINER, Guide	2
05	20H1614D8	· NUT, Self locking 3/4-10UNC	26
06	20Q260D450	· SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	26
07	16J1494	· BRACKET	2
08	3632V009	· WASHER, Plain 3/4 in MPC	10
09	16T9340	· BRACKET	2
10	16J1497D1	· BASE	1
11	16J1497D2	· BASE	1



DIRT CHUTE INSTALLATION

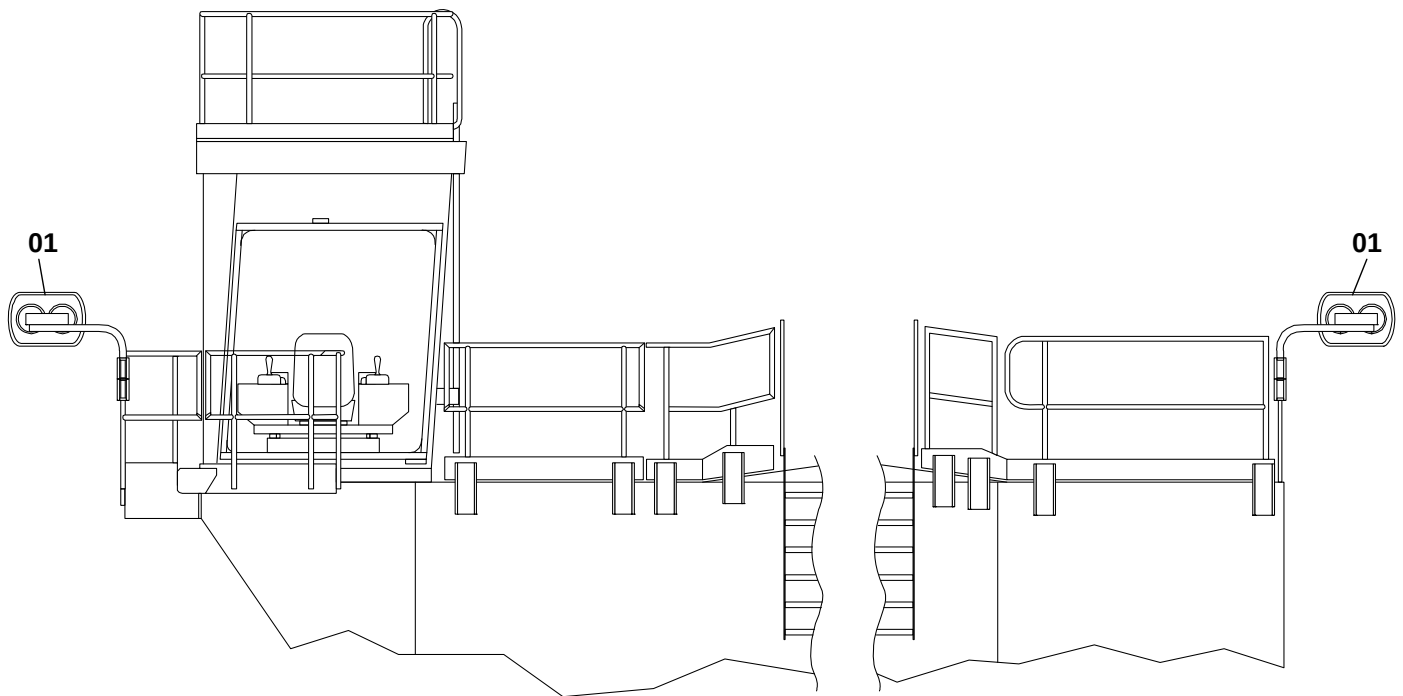


DIRT CHUTE INSTALLATION

REF	PART NO.	DESCRIPTION	QTY
	914J401F1	DIRT CHUTE INSTALLATION	
01	14J1720	• CHUTE, Dirt	1
02	718N233D123	• BLOCK, Tap	4
03	16N3348D99	• ANGLE, Mounting	2
04	16P7021D1	• BRACKET	1
05	16P7021D2	• BRACKET	1
06	441165117	• HOSE, 2 in I D x 200	1
07	8-914J401	• PIPE, 1-1/2 Std x 6-1/2	1
08	16N3348D97	• ANGLE, Mounting	1
09	44Z963D10	• CLAMP, Hose	3
10	20Q3D7	• U-BOLT	1
11	20Z1703D98	• SCREW, Flg Hd Lkg 1/2-13UNC X 1-1/4	20
12	20Z1703D97	• SCREW, Flg Hd Lkg 1/2-13UNC x 1	8
13	20Q270D32	• NUT, Hex 1/2-13UNC	20
14	20Q270D24	• NUT, Hex 3/8-16UNC	2
15	16P7190D1	• SUPPORT, Angle	2
16	R3553D1	• ROPE, Support	2
17	R3551D1	• BRACKET	4



MIRROR INSTALLATION, CONVEX



F6202



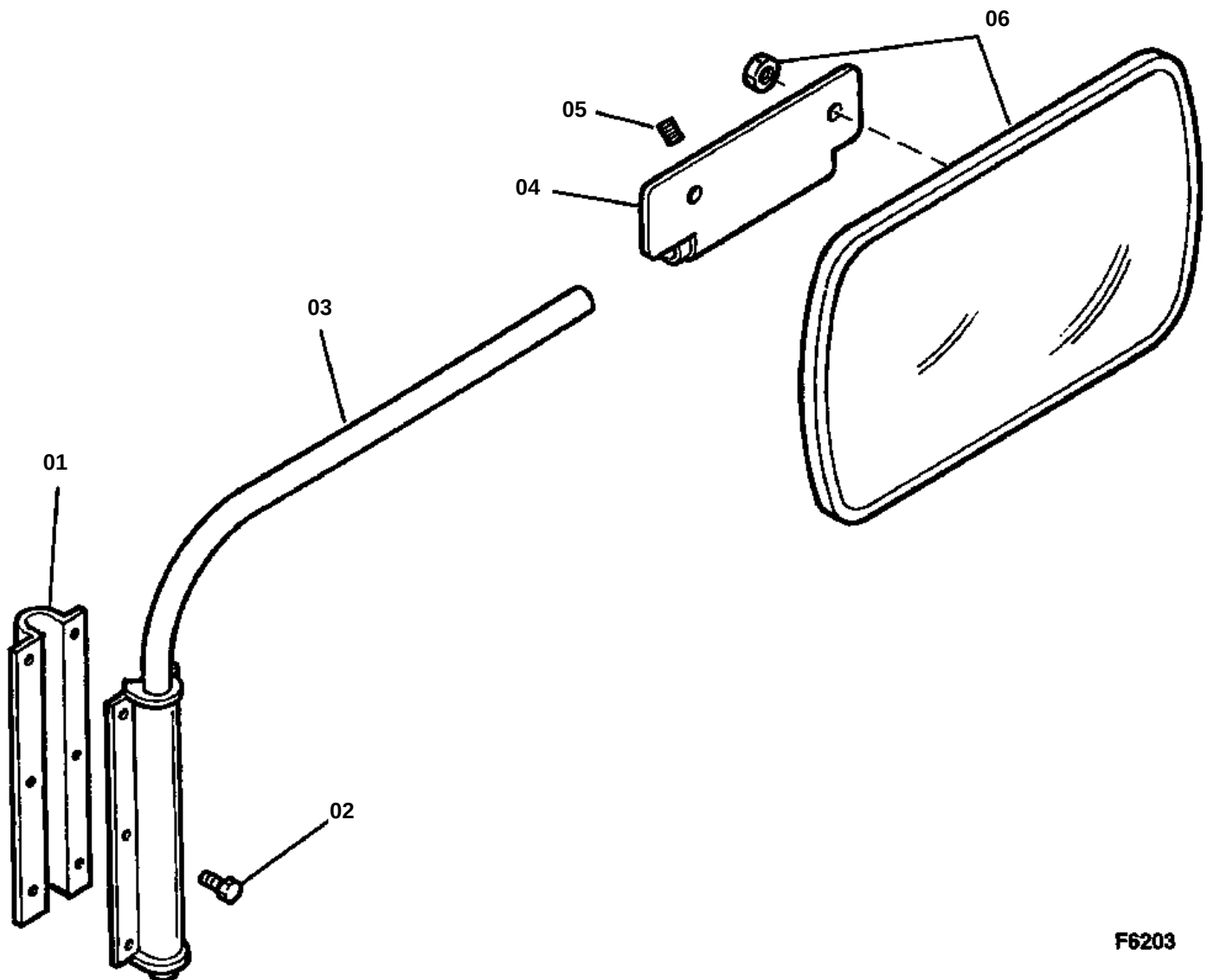
Machine
Serial Number: **4184**

MIRROR INSTALLATION, CONVEX

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R26024F1	MIRROR INSTALLATION, CONVEX		
01	R26023F1	· MIRROR ASSEMBLY	2	1-44



MIRROR ASSEMBLY, CONVEX



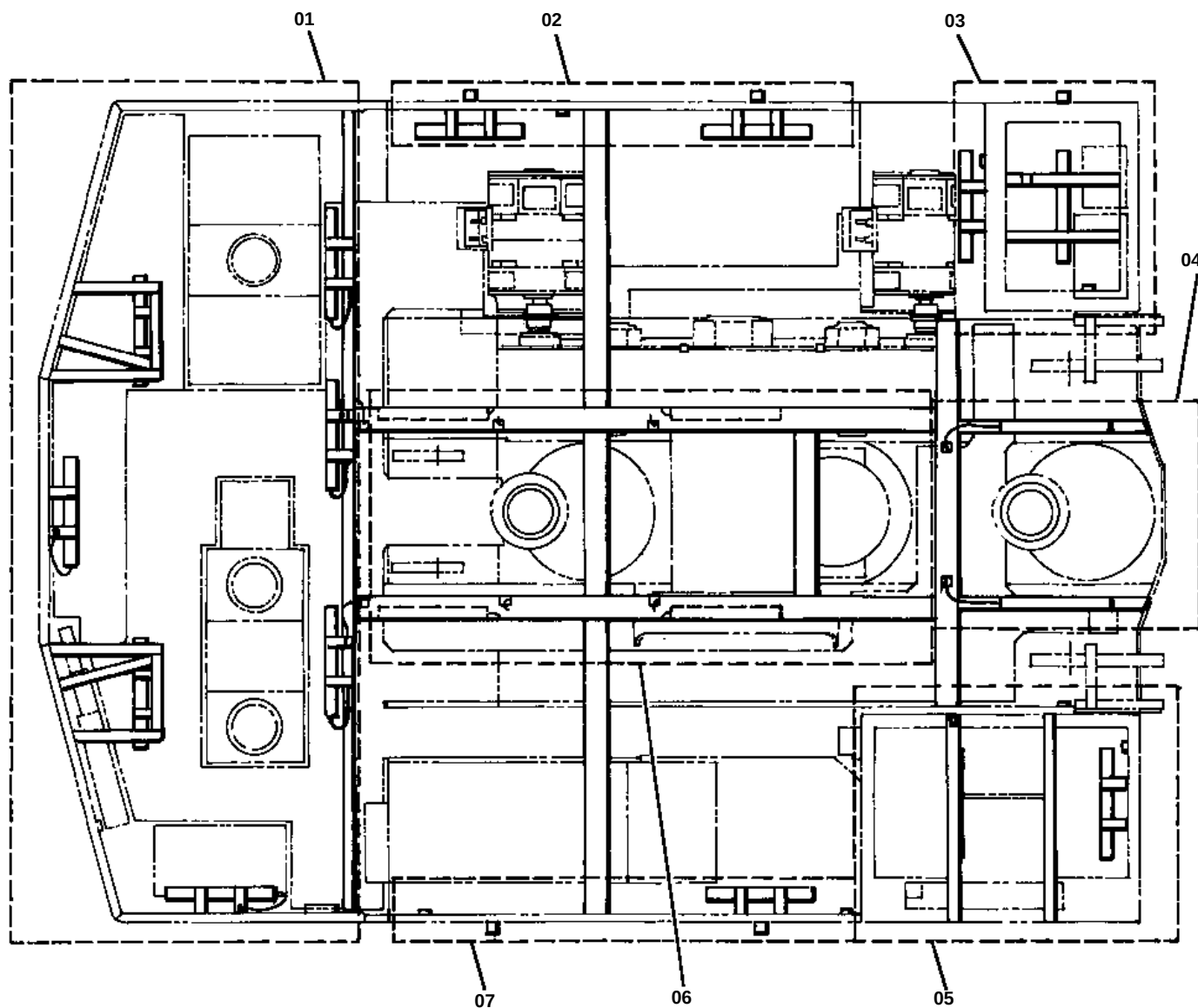
F6203

MIRROR ASSEMBLY, CONVEX

[illegible]



INSTALLATION, HOUSE LIGHTING



F2230

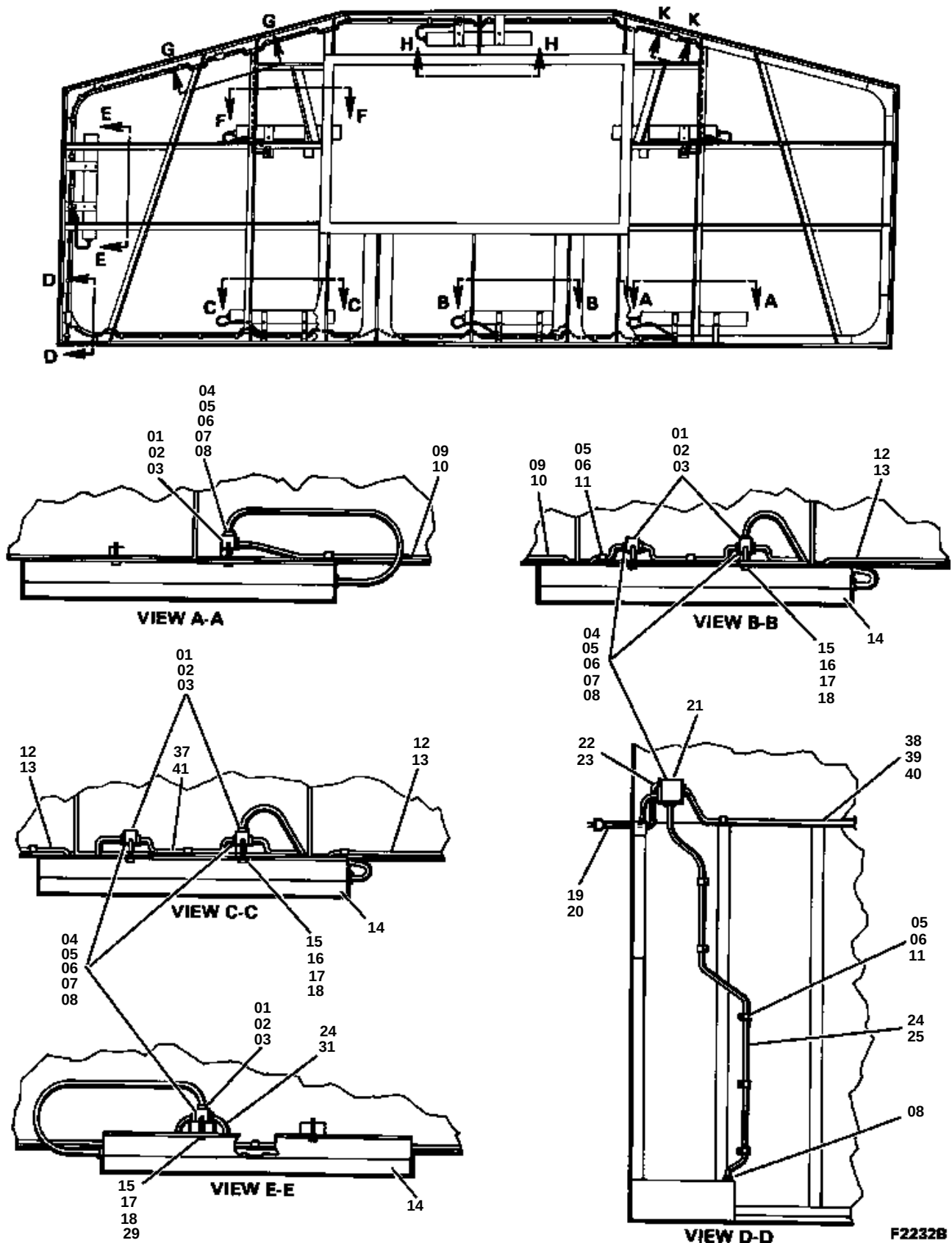


Machine
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REF	PART NO.	DESCRIPTION	QTY	PAGE
	100N3191F1	INSTALLATION, HOUSE LIGHTING		
01	100J6383F1	· LIGHTING, Plenum Chamber	1	1-46
02	100J6408F1	· LIGHTING, Left Side Beam	1	1-47
03	100J6410F1	· LIGHTING, Lube Room	1	1-48
04	100J6409F1	· LIGHTING, Canopy Arch	1	1-49
05	100J6385F1	· LIGHTING, Right Hand Room	1	1-50
06	100J6345F1	· LIGHTING, Center Beam	1	1-51
07	100J6384F1	· LIGHTING, Right Side Beam	1	1-52

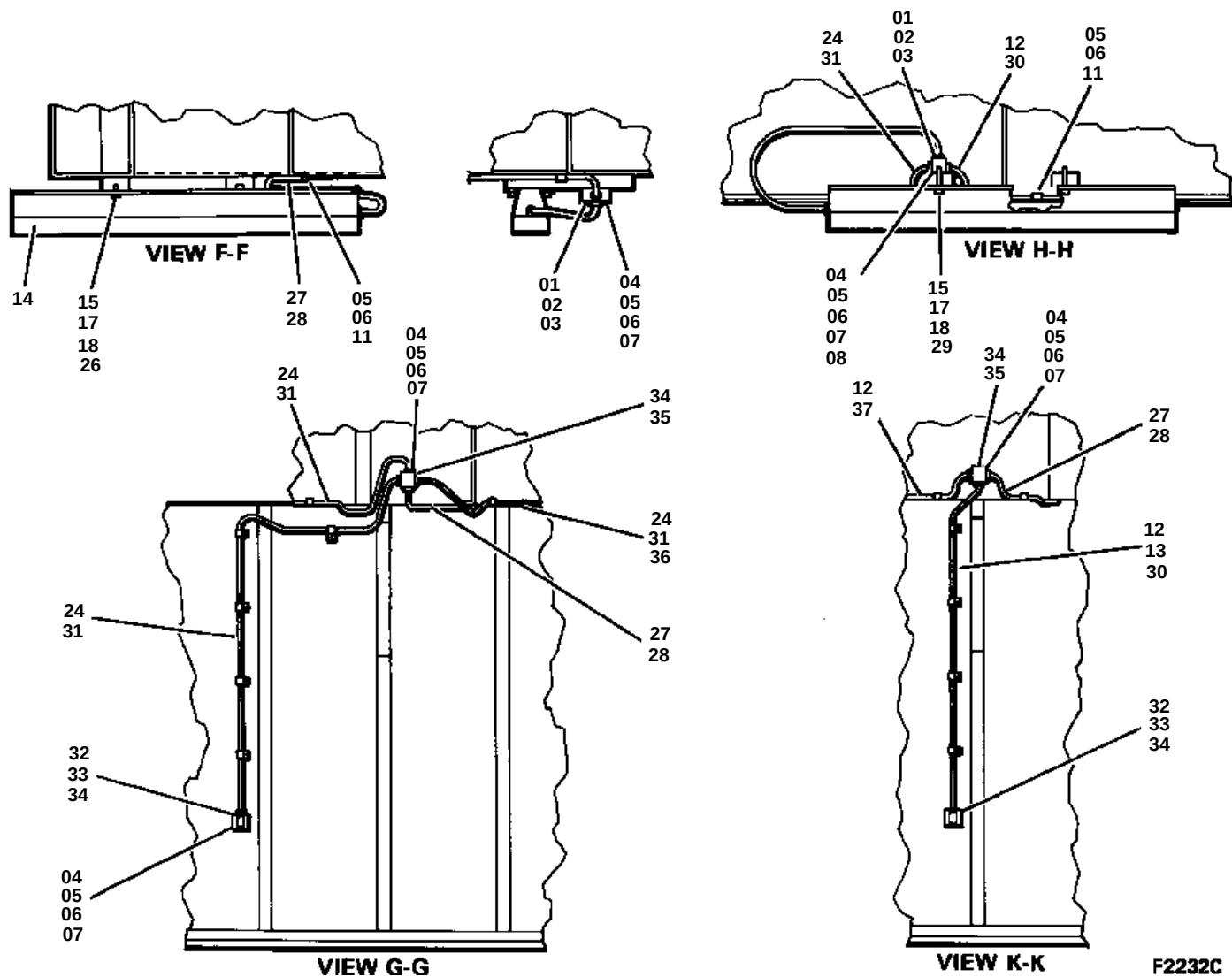


LIGHTING, PLENUM CHAMBER





LIGHTING, PLENUM CHAMBER





LIGHTING, PLENUM CHAMBER

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6383F1	LIGHTING, PLENUM CHAMBER		
01	87Z493D1	• RECEPTACLE, 125V, Twist Lock, 3 Wire	9	
03	87Z307D3	• COVER, 4 x 2.12 in	9	
04	20Q260D192	• SCREW, Hex Hd Cap 1/4-20 x 3/4 in	30	
05	20Q270D16	• NUT, Hex 1/4-20	83	
06	3616V007	• WASHER, Lock 1/4 in	83	
07	3631V005	• WASHER, Plain 1/4 in	30	
08	0916V011	• CONNECTOR, 3/4, 45 deg	27	
09	P&H Spec 304	• CONDUIT, Flexible Steel 5 ft., 3/4 in	1	
10	P&H Spec 2054	• CABLE, 5 ft., #14 AWG	1	
11	0909V003	• STRAP, Conduit 3/4 NPT	53	
12	P&H Spec 304	• CONDUIT, Flexible Steel 8 ft., 3/4 in	4	
13	P&H Spec 2054	• CABLE, 8 ft., #14 AWG	3	
14	56P1F1	• LIGHT, Fluorescent	7	1-53
15	20Q270D24	• NUT, Hex 3/8-16	28	
17	3631V007	• WASHER, Plain 3/8 in	28	
18	3616V009	• WASHER, Lock 3/8 in	28	
	20Q260D271	• SCREW, Hex Hd Cap 3/8-16 x 4 in	12	
19	87Z374D3	• WIRE PLUG, Twist Lock 5 in	1	
20	P&H Spec 2019	• CABLE, 6 ft., #16 AWG	1	
21	79P525F1	• JUNCTION BOX ASSEMBLY	1	
22	85Z24D5	• CORD GRIP, 3/4 NPT x 1/2 - 5/8 in	1	
23	0944V002	• NUT, Lock 3/4 NPT	1	
24	P&H Spec 304	• CONDUIT, Flexible Steel 10 ft., 3/4 in	4	
25	P&H Spec 2054	• CABLE, 45 ft., #12 AWG	1	
26	20Q260D258	• SCREW, Hex Hd Cap 3/8-16 x 1 in	8	
27	P&H Spec 304	• CONDUIT, Flexible Steel 7 ft., 3/4 in	2	
28	P&H Spec 2054	• CABLE, 7 ft., #14 AWG	2	
29	20Q260D263	• SCREW, Hex Hd Cap 3/8-16 x 2 in	8	
30	P&H Spec 2054	• CABLE, 8 ft., #14 AWG	1	
31	P&H Spec 2054	• CABLE, 10 ft., #14 AWG	2	
32	87T177	• COVER, Receptacle, GFI	2	
33	87Z407D1	• RECEPTACLE, Duplex, GFI	2	
34	87Z280D2	• BOX, Outlet	4	
35	87Z76D2	• COVER, Blank 4 in sq.	2	
36	P&H Spec 2014	• WIRE, 20 ft., #14 AWG	1	
37	P&H Spec 304	• CONDUIT, Flexible Steel 2 ft., 3/4 in	2	



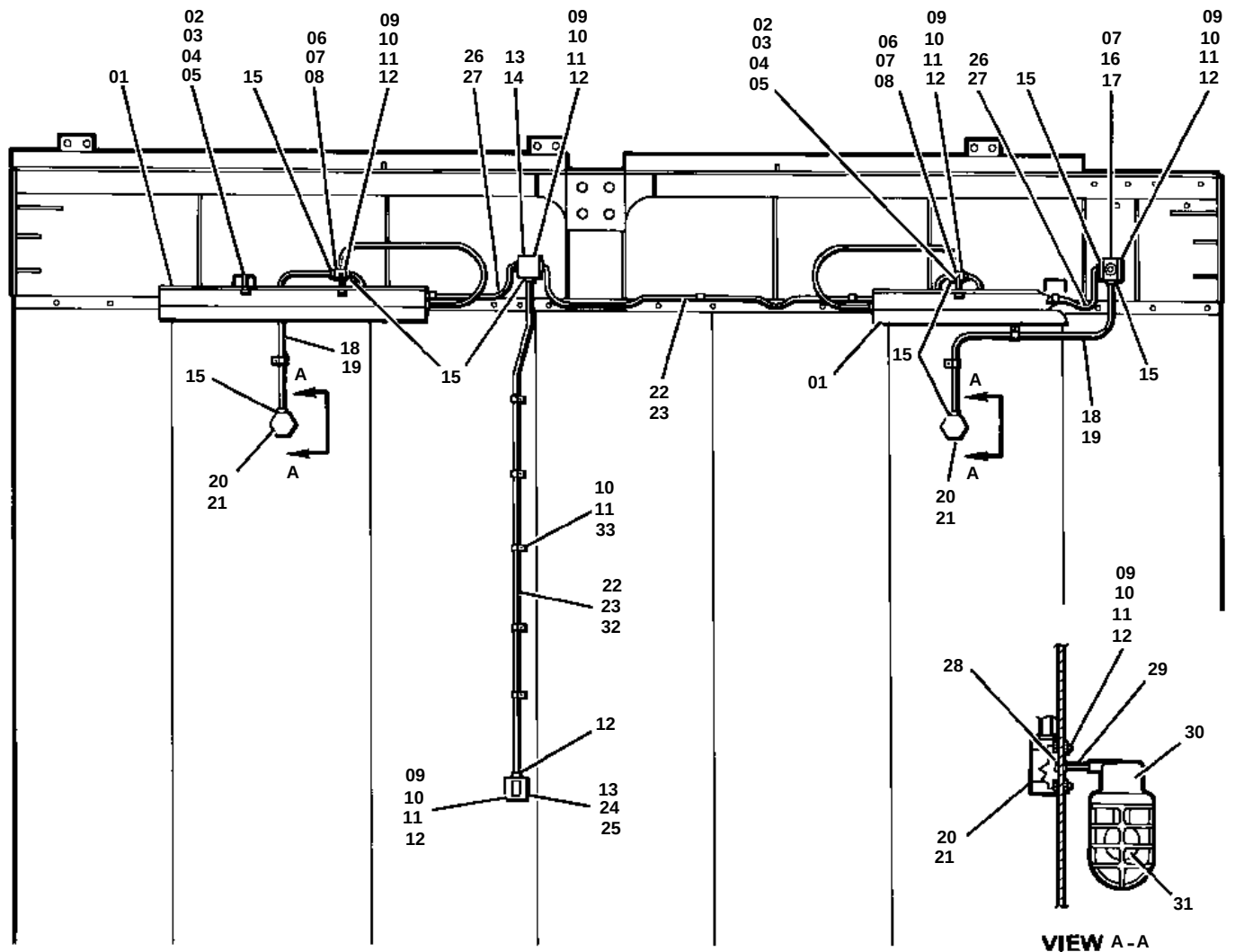
Machine
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LIGHTING, PLENUM CHAMBER

REF	PART NO.	DESCRIPTION	QTY	PAGE
38	P&H Spec 304	· CONDUIT, Flexible Steel 4 ft., 3/4 in	1	
39	P&H Spec 2054	· CABLE, 4 ft., #14 AWG	1	
40	P&H Spec 2014	· WIRE, 15 ft., #14 AWG	1	
41	P&H Spec 2054	· CABLE, 2 ft., #14 AWG	2	



LIGHTING, LEFT SIDE BEAM



F2236

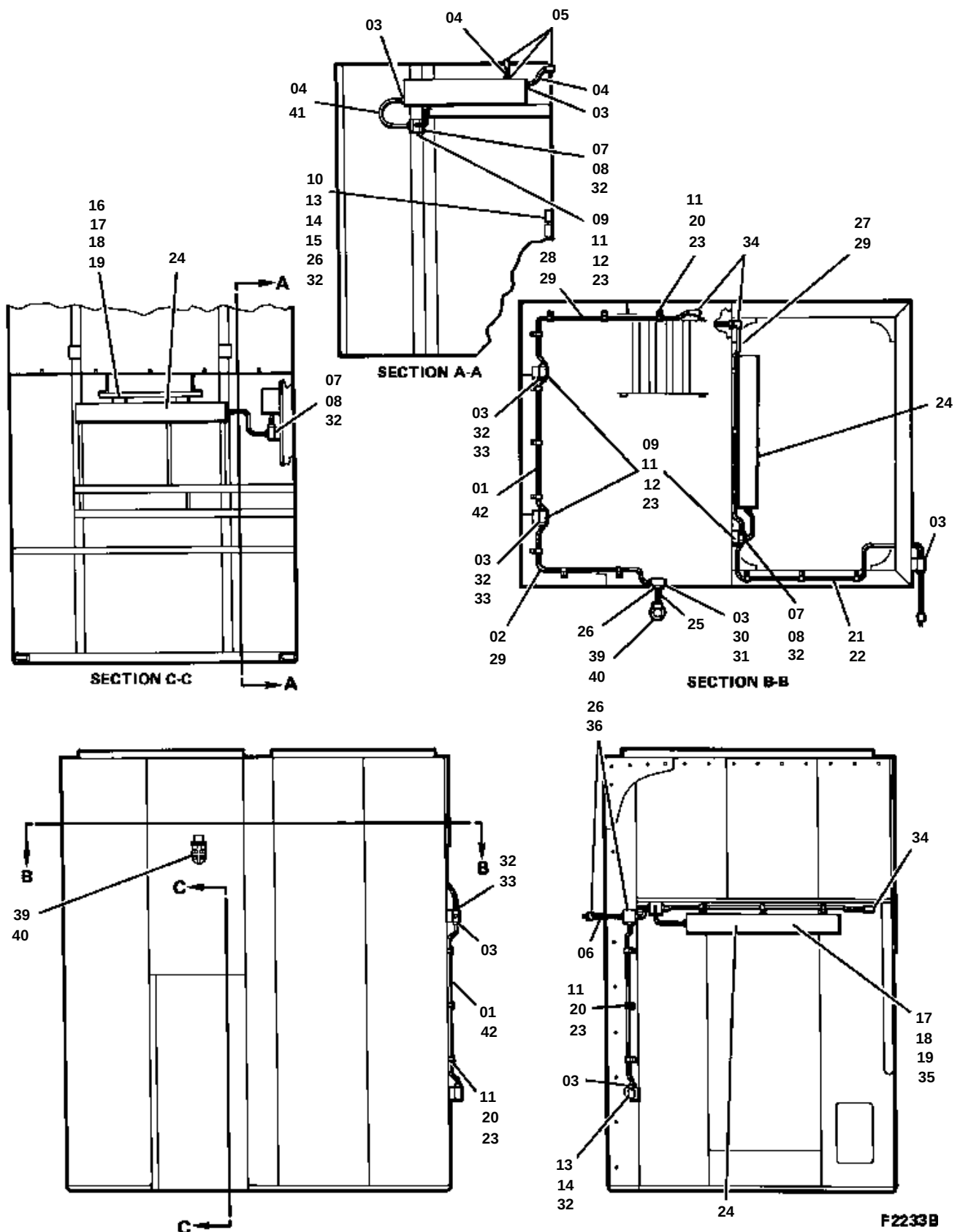


LIGHTING, LEFT SIDE BEAM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6408F1	LIGHTING, LEFT SIDE BEAM		
01	56P1F1	· FLUORESCENT LIGHT ASSEMBLY	2	1-53
02	20Q260D263	· SCREW, Hex Hd Cap 3/8-16 x 2 in	8	
03	20Q270D24	· NUT, Hex 3/8-16	8	
04	3616V009	· WASHER, Lock 3/8 in	8	
05	3631V007	· WASHER, Plain 3/8 in	8	
06	87Z493D1	· RECEPTACLE, Twist Lock, 3-Wire	2	
07	87Z256D3	· BOX, Outlet	3	
08	87Z307D3	· COVER	2	
09	20Q260D192	· SCREW, Hex Hd Cap 1/4-20 x 3/4 in	14	
10	20Q270D16	· NUT, Hex 1/4-20	26	
11	3616V007	· WASHER, Lock 1/4 in	26	
12	3631V005	· WASHER, Plain 1/4 in	14	
13	87Z280D1	· BOX, Outlet	2	
14	87Z76D2	· COVER, Blank	1	
15	0916V011	· CONNECTOR, 3/4 in, 45 deg.	10	
16	87Z307D3	· COVER, Twist Lock	1	
17	87Z374D2	· RECEPTACLE, Twist Lock, 4-Wire	1	
18	030413180	· CONDUIT, Flexible Steel 4 ft., 3/4 in	2	
19	P&H Spec 2054	· CABLE, 4 ft., #14AWG	2	
20	87Z46D3	· BOX, Outlet	2	
21	87Z47D1	· COVER, Round	2	
22	030413180	· CONDUIT, Flexible Steel 9 ft., 3/4 in	AR	
23	P&H Spec 2054	· CABLE, 9 ft., #14AWG	1	
24	87T177	· COVER, GFI	1	
25	87Z407D1	· RECEPTACLE, GFI	1	
26	030413180	· CONDUIT, Flexible Steel 3 ft., 3/4 in	AR	
27	P&H Spec 2054	· CABLE, 3 ft. #14AWG	2	
28	0944V022	· NUT, Lock 3/4 NPT	4	
29	87N252D34	· PIPE, 3/4 NPT, 1/2 ft lg	2	
30	56Z66	· LIGHTING FIXTURE W/GUARD	2	
31	56Z10	· LAMP, 115V, Incandescent 100W	2	
32	P&H Spec 2054	· CABLE, 9 ft., #14AWG	1	
33	0909V003	· STRAP, Conduit 3/4 NPT	12	



LIGHTING, LUBE ROOM



F2233B



LIGHTING, LUBE ROOM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6410F1	LIGHTING, LUBE ROOM		
01	030413180	· CONDUIT, Flexible Steel 5 ft., 3/4 in	AR	
02	29Z241D7	· CABLE, 7ft., #14AWG	1	
03	0916V011	· CONNECTOR, 3/4 in, 45-	11	
04	030413180	· CONDUIT, Flexible Steel 1 ft., 3/4 in	AR	
05	0916V003	· CONNECTOR, Straight 3/4 in	3	
06	29Z214D4	· CABLE, 4ft., #14AWG	AR	
07	87Z493D1	· RECEPTACLE, , Twist Lock, 3 Wire	2	
08	79Z2289D2	· COVER, Twist Lock	2	
09	20Q260D192	· SCREW, Hex Hd Cap 1/4-20 x 3/4 in	12	
10	29Z219D7	· WIRE, 7ft., #14AWG	AR	
11	3616V007	· WASHER, Lock 1/4 in	31	
12	3631V005	· WASHER, Plain 1/4 in	12	
13	87Z407D1	· RECEPTACLE, GFI	2	
14	87T177	· COVER, GFI	2	
15	0950V005	· FITTING, Offset Nipple	1	
16	20Z1271D1	· NUT, Stud 3/8-16 x 1	4	
17	20Q270D24	· NUT, Hex 3/8-16	8	
18	3616V009	· WASHER, Lock 3/8 in	8	
19	3631V007	· WASHER, Plain 3/8 in	8	
20	0909V003	· STRAP, Conduit 3/4 NPT	19	
21	030413180	· CONDUIT, Flexible Steel 8 ft., 3/4 in	AR	
22	29Z209D8	· CABLE, 8ft., #14AWG	1	
23	20Q270D16	· NUT, Hex 1/4-20UNC	31	
24	56P1F1	· FLUORESCENT LIGHT ASSEMBLY	2	1-53
25	87N252D3	· PIPE, 3/4 NPT x 3 in	1	
26	0944V002	· NUT, Lock 3/4 NPT	6	
27	29Z209D10	· CABLE, 10ft., #14AWG	1	
28	29Z241D10	· CABLE, 10ft., #14AWG	1	
29	P&H Spec 304	· CONDUIT, Flexible Steel 7 ft., 3/4 in	3	
30	87Z47D1	· COVER, Round	1	
31	87Z46D3	· BOX, Outet	1	
32	87Z280D2	· BOX, Outlet	8	
33	87Z76D2	· COVER, Blank	3	
34	0916V018	· CONNECTOR, 3/4 in, 90 deg.	2	
35	20Q260D258	· SCREW, Hex Hd Cap 3/8-16 x 1 in	4	
36	85Z24D4	· CORD GRIP, 3/4 NPT, 3/8-1/2 Cord Size	2	



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Serial Number: **4184**

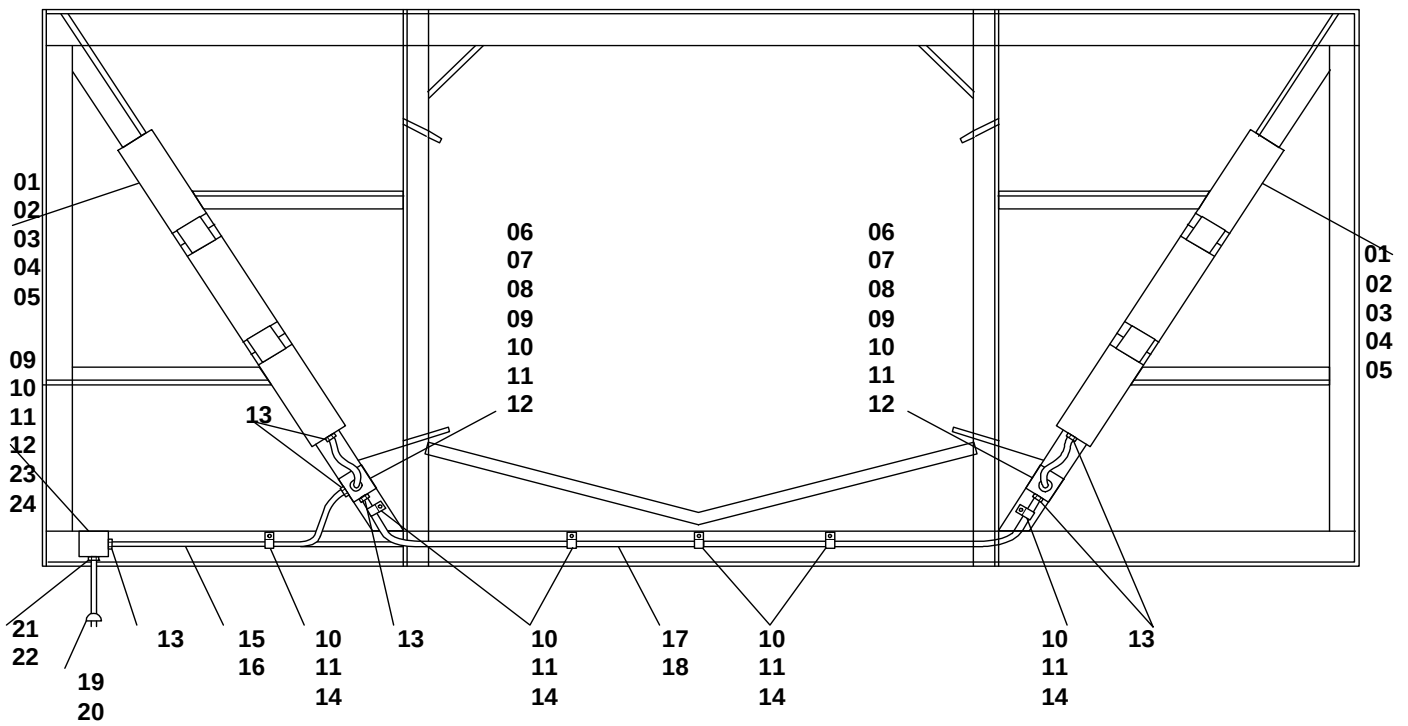
LIGHTING, LUBE ROOM

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LIGHTING, CANOPY ARCH

FRONT OF MACHINE



CANOPY ARCH BOTTOM VIEW

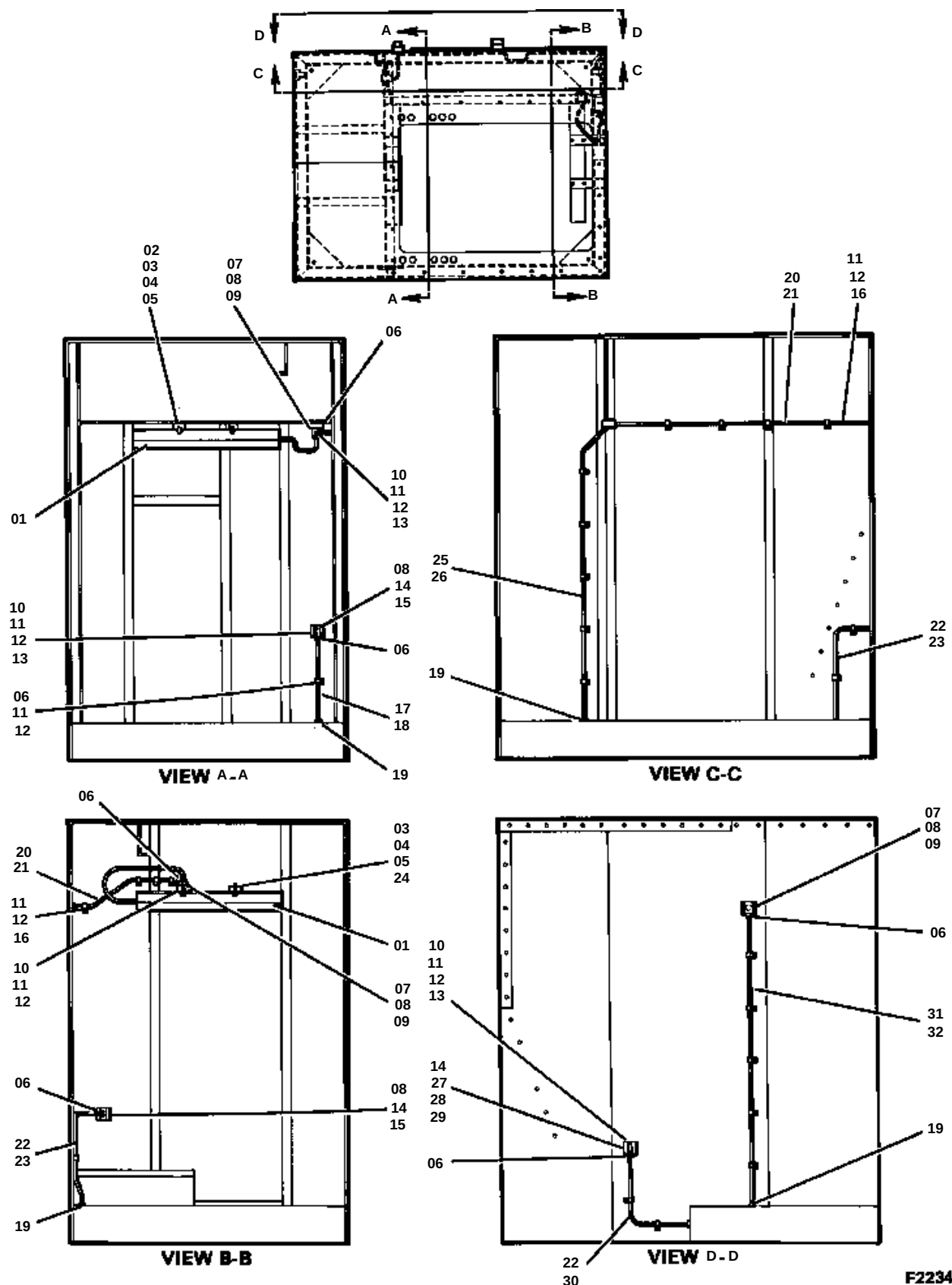
F2235A

LIGHTING, CANOPY ARCH

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6409F1	LIGHTING, CANOPY ARCH		
01	56P1F1	• FLUORESCENT LIGHT ASSEMBLY	2	1-53
02	20Q260D258	• SCREW, Hex Hd Cap 3/8-16 x 1 in	8	
03	20Q270D24	• NUT, Hex 3/8-16	8	
04	3616V009	• WASHER, Lock 3/8 in	8	
05	3631V007	• WASHER, Plain 3/8 in	8	
06	87Z256D3	• BOX, Outlet	2	
07	87Z307D3	• COVER, Outlet Box	2	
08	87Z493D1	• RECEPTACLE, Twist Lock	2	
09	20Q260D192	• SCREW, Hex Hd Cap 1/4-20 x 3/4 in	6	
10	20Q270D16	• NUT, Hex 1/4-20	10	
11	3616V007	• WASHER, Lock 1/4 in	10	
12	3631V005	• WASHER, Plain 1/4 in	6	
13	0916V011	• CONNECTOR, 3/4 in, 45-	4	
14	0909V003	• STRAP, Conduit 3/4 NPT	4	
15	030413180	• CONDUIT, Flexible Steel 6 ft., 3/4 in	AR	
16	205480251	• CABLE, 6 ft., #14 AWG	AR	
17	030413180	• CONDUIT, Flexible Steel 5 ft., 3/4 in	AR	
18	205480251	• CABLE, 5 FT., #14 AWG	AR	
19	87Z374D4	• PLUG, Twist Lock	1	
20	201280251	• CABLE, 3 Cond., #14 AWG , 4 ft.	AR	
21	85Z24D4	• CORD GRIP, 3/4 NPT x 3/8-1/2 in	1	
22	0944V002	• NUT, Lock 3/4 NPT	1	
23	87Z280D1	• BOX, Outlet	1	
24	87Z76D2	• COVER, Outlet Box	1	



LIGHTING, RIGHT-HAND ROOM



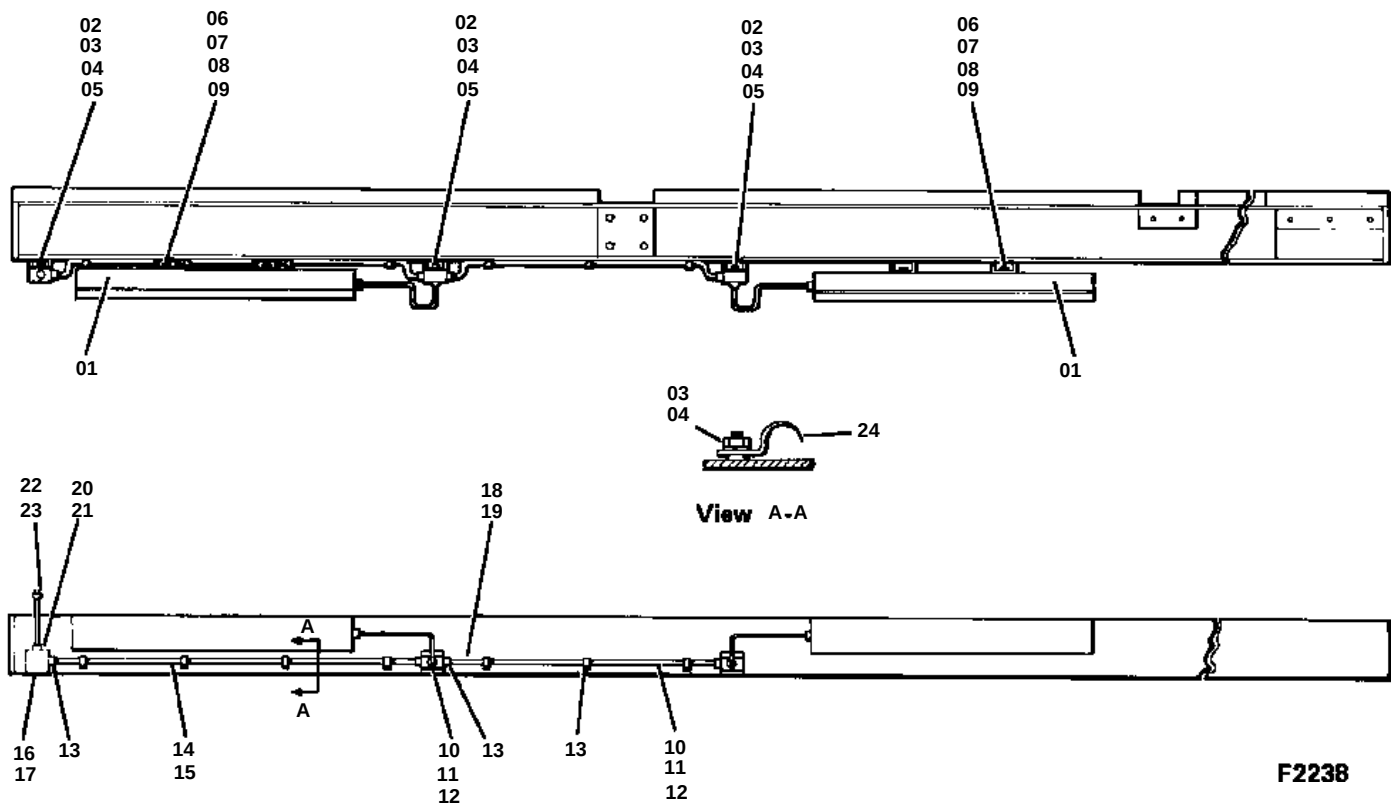


LIGHTING, RIGHT-HAND ROOM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6385F1	LIGHTING, RIGHT-HAND ROOM		
01	56P1F1	· FLUORESCENT LIGHT ASSEMBLY	2	1-53
02	20Q260D258	· SCREW, Hex Hd Cap 3/8-16 x 1 in	4	
03	20Q270D24	· NUT, Hex 3/8-16	8	
04	3616V009	· WASHER, Lock 3/8 in	8	
05	3631V007	· WASHER, Plain 3/8 in	8	
06	0916V011	· CONNECTOR, 75 in, 45-	7	
07	87Z493D1	· RECEPTACLE, Twist Lock, 3 Wire	3	
08	87Z256D3	· BOX, Outlet	5	
09	87Z307D3	· COVER, Twist Lock	3	
10	20Q260D192	· SCREW, Hex Hd Cap 1/4-20 x 3/4 in	12	
11	20Q270D16	· NUT, Hex 1/4-20	35	
12	3616V007	· WASHER, Lock 1/4 in	35	
13	3631V005	· WASHER, Plain 1/4 in	12	
14	87Z69	· RECEPTACLE, Duplex	2	
15	87Z28D4	· COVER, Duplex	2	
16	0909V003	· STRAP, Conduit 3/4 NPT	23	
17	030413180	· CONDUIT, Flexible Steel 3 ft., 3/4 in	1	
18	205480251	· CABLE, 10 ft., #14 AWG	1	
19	0916V003	· CONNECTOR, Straight 3/4 in	5	
20	030413180	· CONDUIT, Flexible Steel 11 ft., 3/4 in	1	
21	205480251	· CABLE, 11 ft., #14 AWG	1	
22	030413180	· CONDUIT, Flexible Steel 4 ft., 3/4 in	2	
23	205480251	· CABLE, 15 ft., #14 AWG	1	
24	20Q260D263	· SCREW, Hex Hd Cap 3/8-16 x 2 in	4	
25	030413180	· CONDUIT, Flexible Steel 10 ft., 3/4 in	1	
26	205480251	· CABLE, 16 ft., #14 AWG	1	
27	87Z280D2	· BOX, Outlet	1	
28	87Z407D1	· RECEPTACLE, GFI	1	
29	87T177	· COVER, GFI	1	
30	205480251	· CABLE, 14 ft., #14 AWG	1	
31	030413180	· CONDUIT, Flexible Steel 9 ft., 3/4 in	1	
32	205480251	· CABLE, 17 ft., #14 AWG	1	



LIGHTING, CENTER BEAM

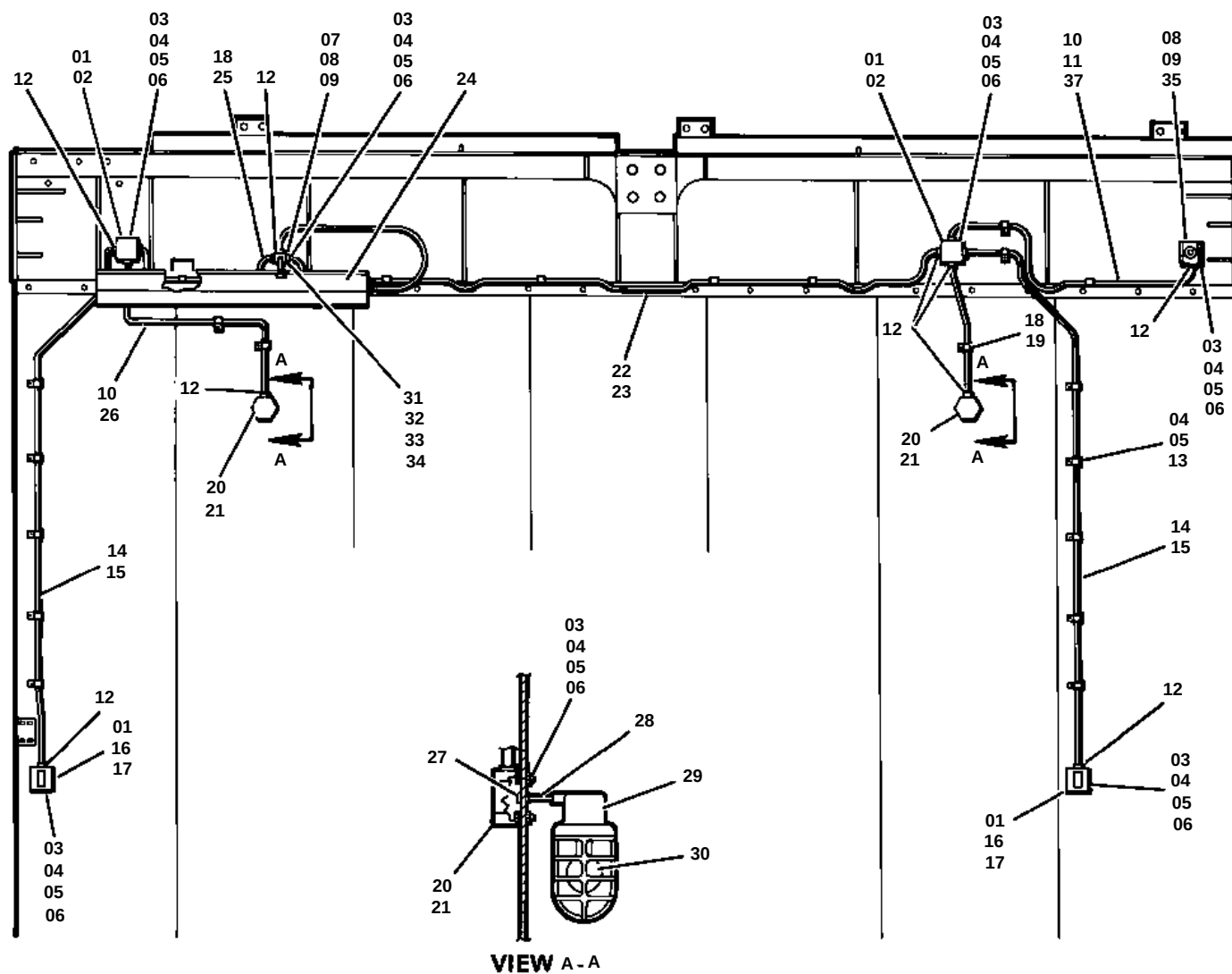


LIGHTING, CENTER BEAM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6345F1	LIGHTING, CENTER BEAM		
01	56P1F1	• FLUORESCENT LIGHT ASSEMBLY	4	1-53
02	20Q260D192	• SCREW, Hex Hd Cap 1/4-20 x 3/4 in	12	
03	20Q270D16	• NUT, Hex 1/4-20	26	
04	3616V007	• WASHER, Lock 1/4 in	26	
05	3631V005	• WASHER, Plain 1/4 in	12	
06	20Q260D258	• SCREW, Hex Hd Cap 3/8-16 x 1 in	16	
07	20Q270D24	• NUT, Hex 3/8-16	16	
08	3616V009	• WASHER, Lock 3/8 in	16	
09	3631V007	• WASHER, Plain 3/8 in	16	
10	87Z256D3	• BOX, Outlet	4	
11	87Z307D3	• COVER, Outlet Box	4	
12	87Z493D1	• RECEPTACLE, Twist Lock	4	
13	0916V011	• CONNECTOR, 3/4 in, 45-	8	
14	030413180	• CONDUIT, Flexible Steel 6-1/2 ft , 3/4 in	AR	
15	205480251	• CABLE, 6-1/2 ft , #14 AWG	AR	
16	87Z280D2	• BOX, Outlet	2	
17	87Z76D2	• COVER, Outlet Box	2	
18	030413180	• CONDUIT, Flexible Steel 5 ft., 3/4 in	AR	
19	205480251	• CABLE, 5 ft., #14 AWG	AR	
20	85Z24D4	• CORD GRIP, 3/4 NPT	2	
21	0944V002	• NUT, Lock 3/4 NPT	2	
22	87Z374D4	• PLUG, Twist Lock	2	
23	201280251	• CABLE, 3-Cond., #14 AWG	AR	
24	0909V003	• STRAP, Conduit 3/4 in	14	



LIGHTING, RIGHT SIDE BEAM



F2237

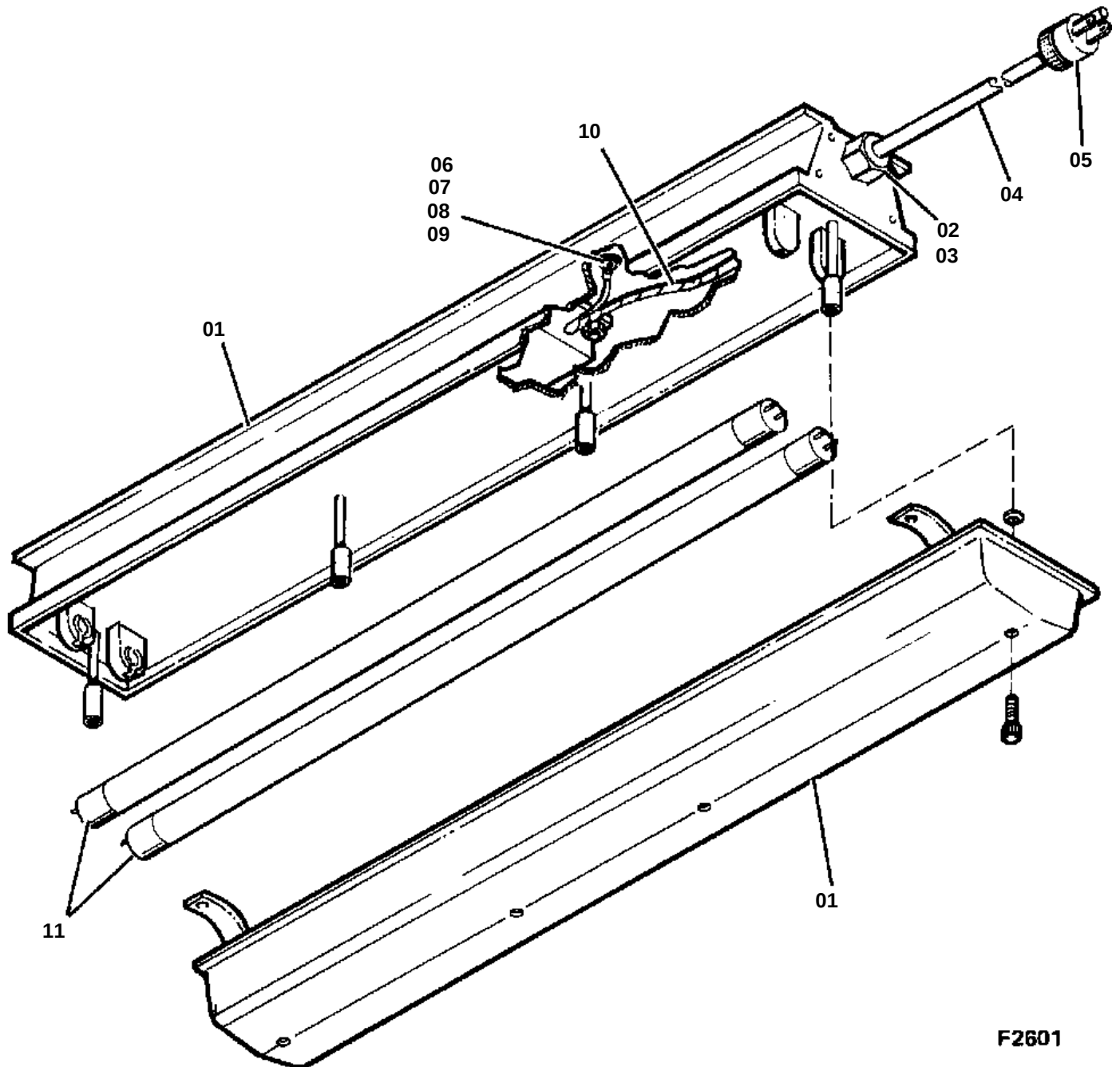


LIGHTING, RIGHT SIDE BEAM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6384F1	LIGHTING, RIGHT SIDE BEAM		
01	87Z280D2	• BOX, Outlet	4	
02	87Z76D2	• COVER, Blank	2	
03	20Q260D192	• SCREW, Hex Hd Cap 1/4-20 x 3/4 in	14	
04	20Q270D16	• NUT, Hex 1/4-20	35	
05	3616V007	• WASHER, Lock 1/4 in	35	
06	3631V005	• WASHER, Plain 1/4 in	14	
07	87Z493D1	• RECEPTACLE, Twist Lock, 3 Wire	1	
08	87Z256D3	• BOX, Outlet	2	
09	87Z307D3	• COVER	2	
10	030413180	• CONDUIT, Flexible Steel 4 ft., 3/4 in	AR	
11	205480251	• CABLE, 4 ft., #14 AWG	AR	
12	0916V011	• CONNECTOR, 3/4 in, 45-	12	
13	0909V003	• STRAP, Conduit 3/4 NPT	21	
14	030413180	• CONDUIT, Flexible Steel 10 ft., 3/4 in	AR	
15	205480251	• CABLE, 10 ft., #14 AWG	AR	
16	87T177	• COVER, GFI	2	
17	87Z407D1	• RECEPTACLE, GFI	2	
18	030413180	• CONDUIT, Flexible Steel 3 ft., 3/4 in	AR	
19	205480251	• CABLE, 3 ft., #14 AWG	AR	
20	87Z46D3	• BOX, Outlet	2	
21	87Z47D1	• COVER, Round	2	
22	030413180	• CONDUIT, Flexible Steel 12 ft., 3/4 in	AR	
23	201280251	• CABLE, 12 ft., #12AWG	AR	
24	56P1F1	• FLUORESCENT LIGHT ASSEMBLY	1	1-53
25	205480251	• CABLE, 3 ft., #14 AWG	AR	
26	205480251	• CABLE, 4 ft., #14 AWG	AR	
27	0944V002	• NUT, Lock 3/4 NPT	4	
28	87N252D34	• PIPE, 3/4 NPT, 1/2 ft lg	2	
29	56Z66	• LIGHTING FIXTURE W/GUARD	2	
30	56Z10	• LAMP, 115V Incandescent 100W	2	
31	20Q260D263	• SCREW, Hex Hd Cap 3/8-16 x 2 in	4	
32	20Q270D24	• NUT, Hex 3/8-16	4	
33	3616V009	• WASHER, Lock 3/8 in	4	
34	3631V007	• WASHER, Plain 3/8 in	4	
35	87Z374D2	• RECEPTACLE, Twist Lock, 4 Wire	1	
37		NOT USED		



FLUORESCENT LIGHT ASSEMBLY



F2601

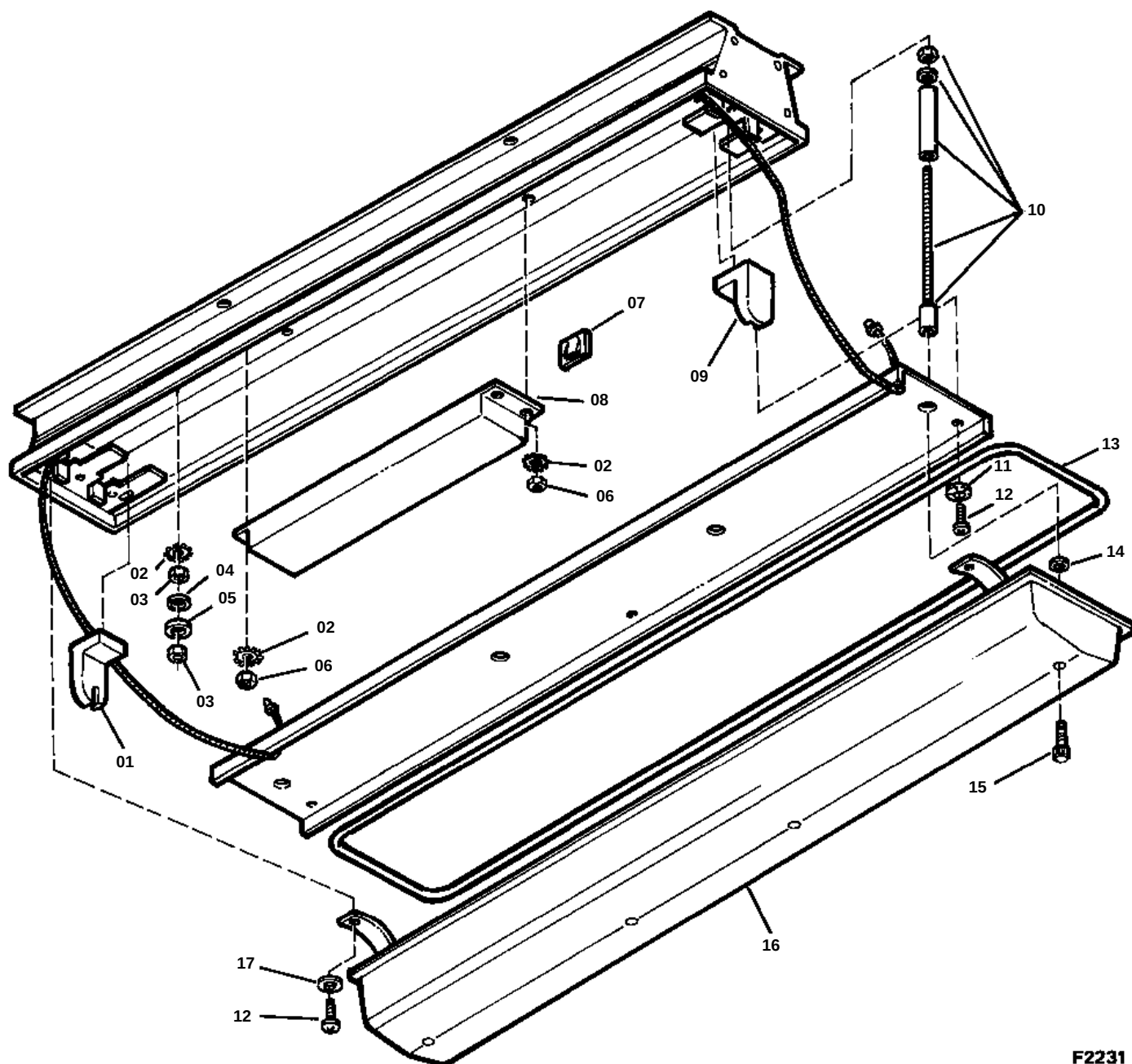


Machine
Serial Number: **4184**

REF	PART NO.	DESCRIPTION	QTY	PAGE
	56P1F1	FLUORESCENT LIGHT ASSEMBLY		
01	56Z513	• FIXTURE, Fluorescent	1	1-54
02	85Z24D2	• GRIP, Cord 1/2 NPT, 3/8-1/2 Cord Size	1	
03	0944V001	• LOCKNUT, Conduit 1/2 NPT	1	
04	201280251	• CABLE, #14AWG, 4 ft.	1	
05	87Z374D4	• PLUG, Twist Lock	1	
06	79U2522D9	• LUG, Terminal #10 Stud, #14AWG Wire	5	
07	0862V096	• SCREW, Pan Hd Mach #10 (.190)-24 x 1/2 in	2	
08	2136V005	• NUT, Hex #10-24UNC	2	
09	3616V005	• WASHER, Lock #10	2	
10	21Z854	• TAPE, Electrical - Black	1	
11	56Z438D2	• LAMP, Fluorescent	2	



FIXTURE, FLUORESCENT



F2231

FIXTURE, FLUORESCENT

REF	PART NO.	DESCRIPTION	QTY
	56Z513	FIXTURE, FLUORESCENT	
01	1056Z233	· HOLDER, Lamp	2
02	1018Z11400	· LOCKWASHER, Plated, #10	6
03	1020Z11424	· NUT, Hex, green, #10-24	4
04	1018Z11403	· WASHER, Flat	2
05	1018Z11398	· WASHER, Terminal, brass	2
06	1020Z11423	· NUT, Hex, #10-24	4
07	1056Z235	· ANCHOR, Wire	4
08	1056Z236	· BALLAST, Fluorescent	1
09	1056Z232	· HOLDER, Lamp	2
10	1056Z234	· STAND OFF KIT	4
11	1018Z11402	· LOCKWASHER, Plated, #10	6
12	1020Z11422	· SCREW	8
13	1018Z11399	· SEAL KIT	1
14	1045Z3269	· O-RING	4
15	1020Z11421	· KNOB ASSEMBLY, Knurled	4
16	1056Z231	· DIFFUSER	1
17	1018Z11401	· WASHER, Flat	2

FLOODLIGHT INSTALLATION---COMMON MATERIAL (Not illustrated)

REF	PART NO.	DESCRIPTION	QTY
--	R19480F1	FLOODLIGHT INSTALLATION---COMMON MATERIAL	
01	R19481F1	· CABLE ASSEMBLY, Floodlight, House	1
02	R19482F1	· CABLE ASSEMBLY, Floodlight, Platform	1
03	29T1584	· · BRACKET, Floodlight	4
04	R19483F1	· CABLE ASSEMBLY, Floodlight, Cab	1
05	R19484F1	· CABLE ASSEMBLY, Floodlight, LH Room	1
06	R19485F1	· CABLE ASSEMBLY, Floodlight, RH Room	1



Machine Serial Number: **4184**

FLOODLIGHT INSTALLATION---BRACKETS (Not illustrated)

[illegible]



Machine
Serial Number: **4184**

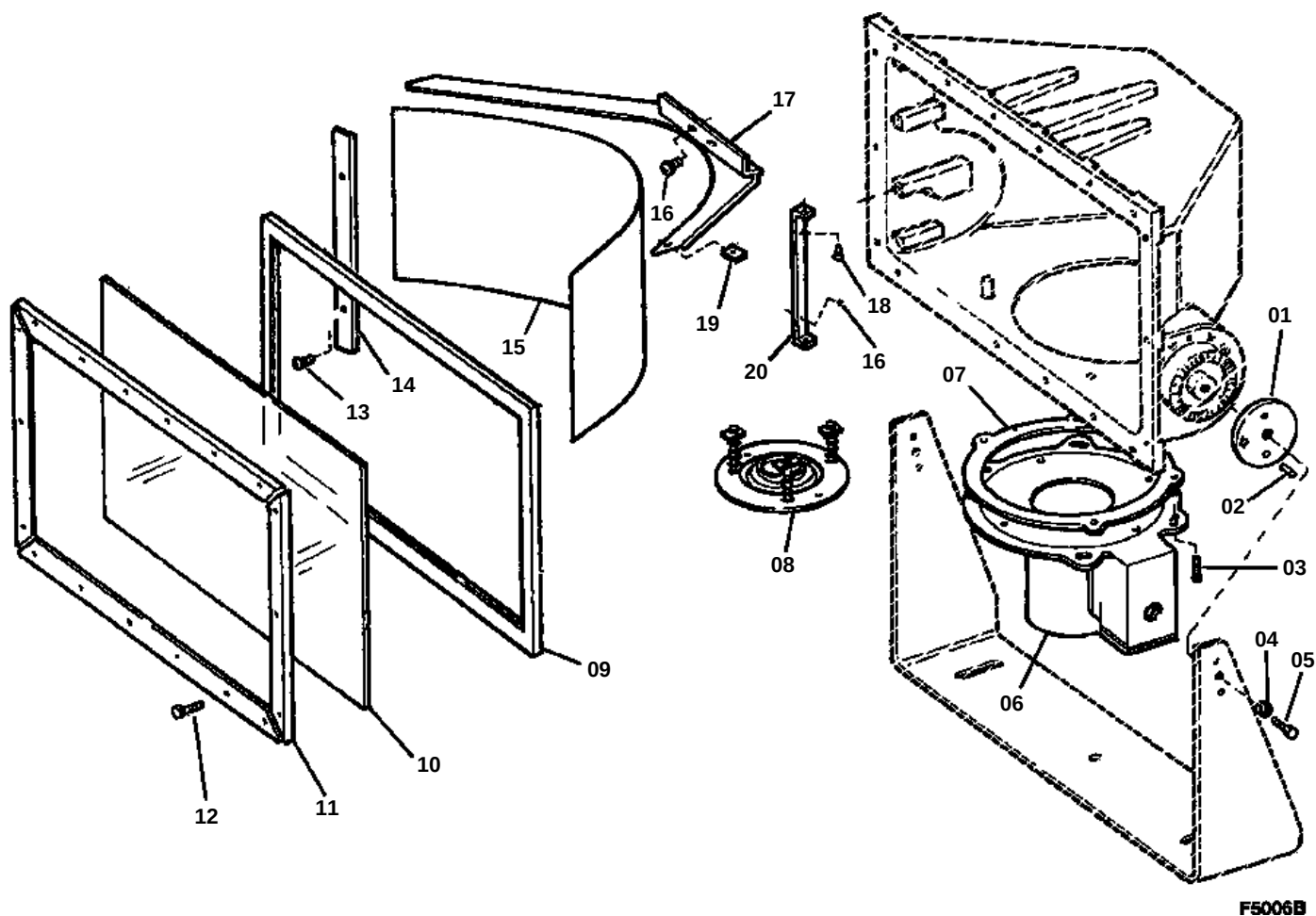
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R19480F4	FLOODLIGHT ASSEMBLY---60 HZ, 400 W, METAL HALIDE		
--	R17102F3	· FLOODLIGHT ASSEMBLY, 60 Hz, 400 W, Metal Halide, Very Narrow Beam	2	
01	R18634D1	· · FIXTURE, Floodlight, 400 W, Very Narrow Beam	1	1-59
02	R18635D2	· · LAMP, Floodlight, 400 W, Metal Halide	1	
03	75U25D13	· · BALLAST, 60 Hz, 400 W, Metal Halide	1	
04	205480251	· · CABLE, 3-conductor, #14 AWG	AR	
--	R17102F4	· FLOODLIGHT ASSEMBLY, 60 Hz, 400 W, Metal Halide, Very Wide Beam	9	
05	R18634D2	· · FIXTURE, Floodlight, 400 W, Very Wide Beam	1	1-60
06	R18635D2	· · LAMP, Floodlight, 400 W, Metal Halide	1	
07	75U25D13	· · BALLAST, 60 Hz, 400 W, Metal Halide	1	
08	205480251	· · CABLE, 3-conductor, #14 AWG	AR	

FLOODLIGHT ASSEMBLY---50/60 HZ, 500 W HALOGEN (Not illustrated)

REF	PART NO.	DESCRIPTION	QTY	PAGE
--	R19480F13	FLOODLIGHT ASSEMBLY---50/60 HZ, 500 W HALOGEN		
(Not illustrated)				
01	R17104F1	• FLOODLIGHT ASSEMBLY, 50/60 Hz, 500 W Halogen, Wide Beam	3	
02	56Q55D1	• • FIXTURE, Floodlight, 500 W	1	
03	56Z354	• • LAMP, Floodlight, 500 W Halogen	1	
04	R17104F2	• FLOODLIGHT ASSEMBLY, Portable, 50/60 Hz, 500 W Halogen, Wide Beam	1	
05	R18660D1	• • FIXTURE, Floodlight, 500 W	1	
06	56Z354	• • LAMP, Floodlight, 500 W Halogen	1	
07	56P1F1	• LIGHT ASSEMBLY, Fluorescent	4	1-53
08	R19482F2	• HARDWARE, Fluorescent light		



FLOODLIGHT, 400 WATT, VERY NARROW BEAM



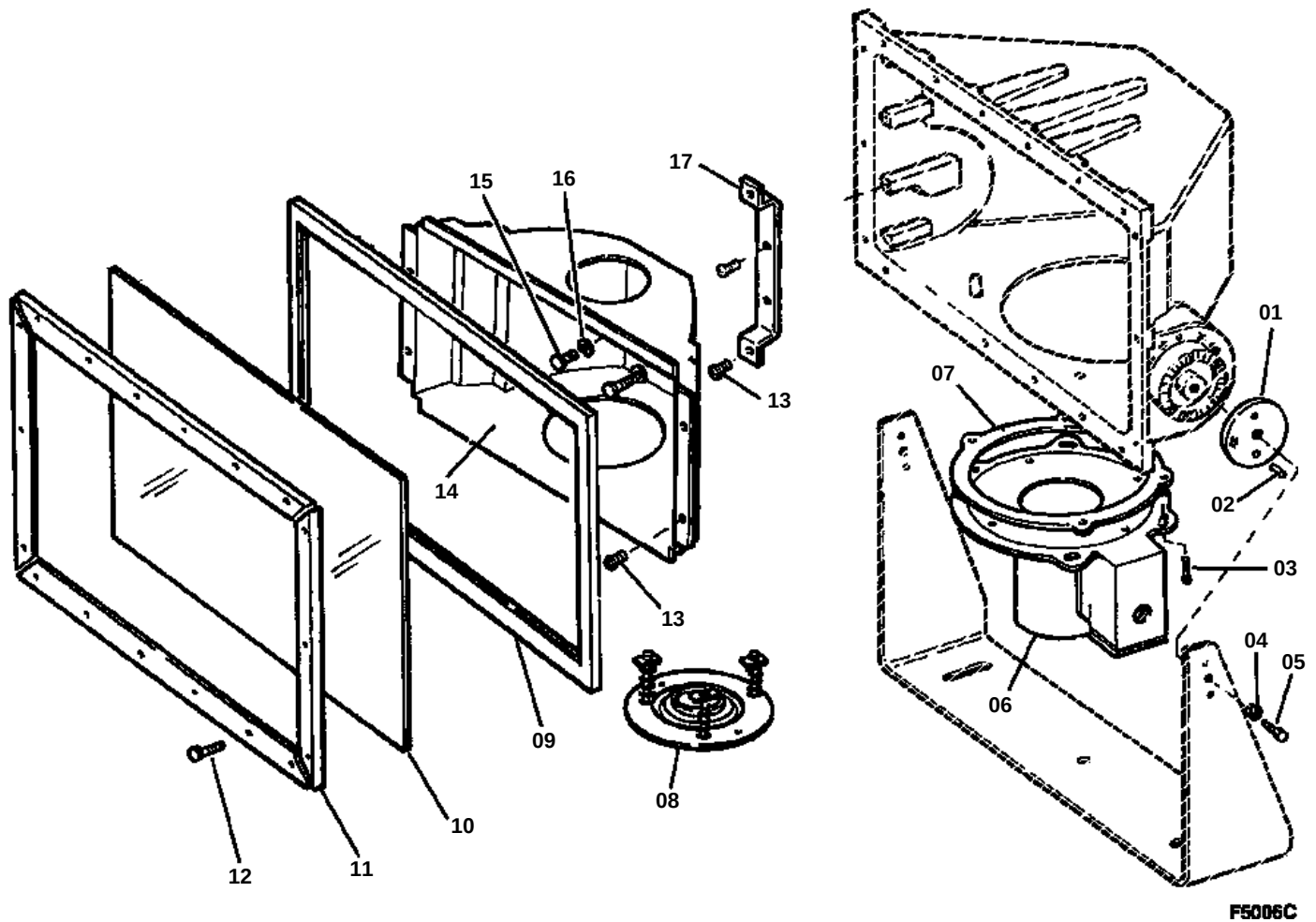


Machine Serial Number: **4184**

REF	PART NO.	DESCRIPTION	QTY
	R18634D1	FLOODLIGHT, 400 WATT, VERY NARROW BEAM	
01	1020Z11696	• WASHER	2
02	1019Z2247	• PIN, Groove 1/4 dia x 3/4 in	4
03	1020Z11708	• SCREW, Slotted Pan Hd Mach 1/4-20 x 1 in	4
04	1020Z11709	• WASHER, Split Lock 1/2 in	2
05	1020Z11707	• SCREW, Hex Hd Cap 1/2-13 x 1-1/2 in	2
06	1014Z3977	• SOCKET HOUSING ASSEMBLY	1
07	1020Z11702	• GASKET, Port	1
08	1018Z11597	• RETAINER, Lamp	1
09	1020Z11703	• GASKET, Cover Glass	1
10	1027Z436	• GLASS, Plain Cover	1
11	1032Z1152	• RETAINING STRIP, Glass	1
12	1020Z11710	• SCREW, Hex Washer Hd #10 x 1 in	18
13	1020Z11705	• SCREW, Rd Hd Mach 8-32 x 1/2 in	8
14	1016Z1266	• BRACKET	2
15	1056Z286	• REFLECTOR	1
16	1020Z10938	• SCREW, Rd Hd Mach 8-32 x 3/8 in	6
17	1018Z12393	• PLATE, Backup	2
18	1020Z12690	• SCREW, Pan Hd 8 x 3/8 in	4
19	1020Z12691	• NUT, U-Type	4
20	1016Z1265	• BRACKET	2



FLOODLIGHT, 400 WATT, VERY WIDE BEAM





Machine Serial Number: **4184**

FLOODLIGHT, 400 WATT, VERY WIDE BEAM

REF	PART NO.	DESCRIPTION	QTY
	R18634D2	FLOODLIGHT, 400 WATT, VERY WIDE BEAM	
01	1020Z11696	• WASHER	2
02	1019Z2247	• PIN, Groove 1/4 dia x 3/4 in	4
03	1020Z11708	• SCREW, Slotted Pan Hd Mach 1/4-20 x 1 in	4
04	1020Z11709	• WASHER, Split Lock 1/2 in	2
05	1020Z11707	• SCREW, Hex Hd Cap 1/2-13 x 1-1/2 in	2
06	1014Z3977	• SOCKET HOUSING ASSEMBLY	1
07	1020Z11702	• GASKET, Port	1
08	1018Z11597	• RETAINER.Lamp	1
09	1020Z11703	• GASKET, Cover Glass	1
10	1027Z436	• GLASS, Plain Cover	1
11	1032Z1152	• RETAINING STRIP, Glass	1
12	1020Z11710	• SCREW, Hex Washer Hd Type 25 #10 x 1 in	18
13	1020Z10938	• SCREW, Rd Hd Mach	6
14	1056Z287	• REFLECTOR	1
15	1020Z12692	• SCREW, Rd Hd Mach	2
16	1020Z12693	• WASHER, Lock	2
17	1016Z1267	• BRACKET	1

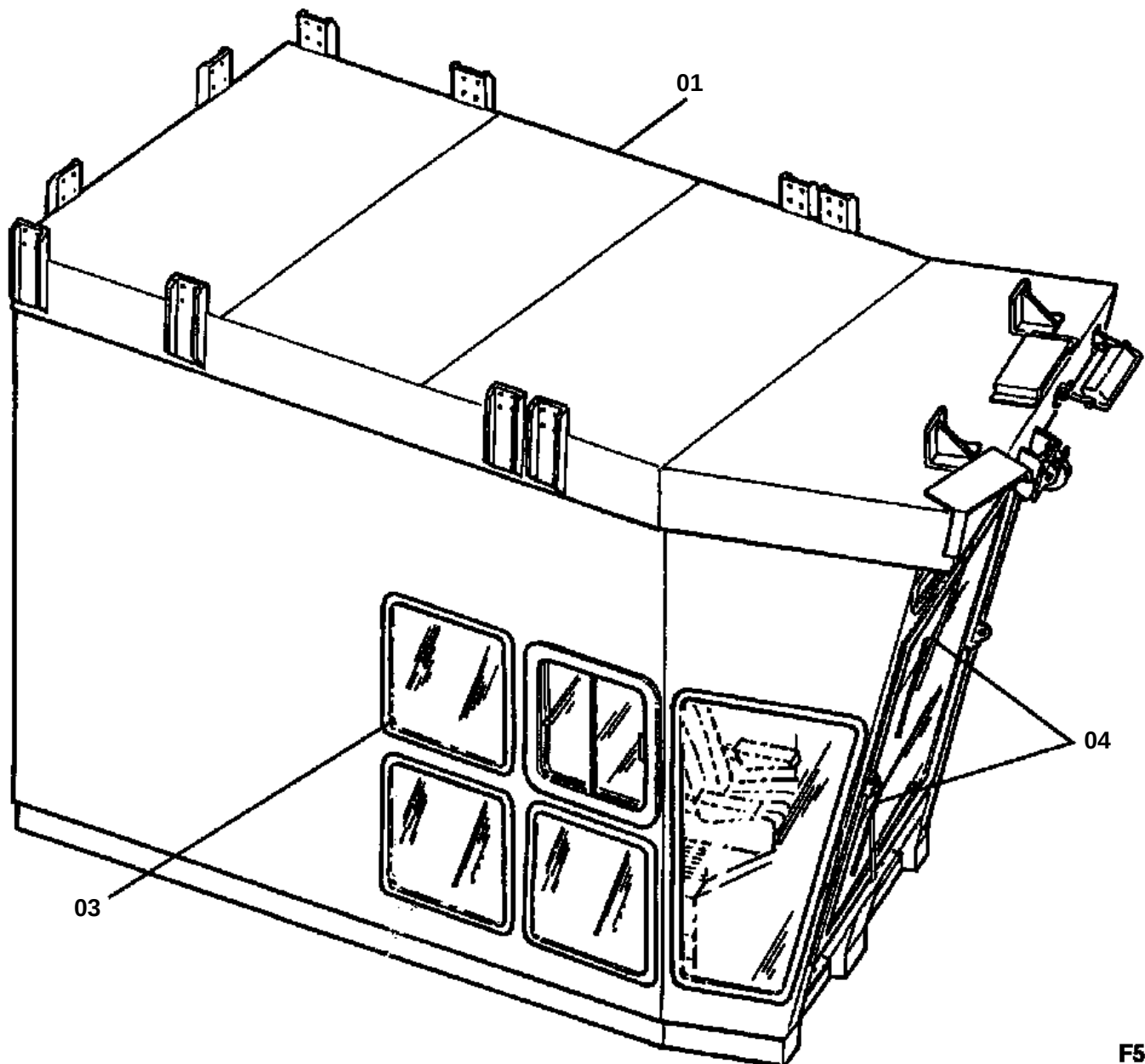


Group 2 - Operator's Cab and Controls

Description	Page
CAB, OPERATOR - R.H.	2-1
WIPER, WINDSHIELD	2-4
CONSOLE ASSEMBLY, OPERATOR'S	2-7
MODIFICATION KIT, CONSOLE	2-14
MODIFICATION KIT, CONSOLE	2-15
BASE, OPERATOR SEAT	2-8
INSTALLATION, AIR CONDITIONER	2-18
INSTALLATION, HEATER/DEFROSTER	2-16
INCLINOMETER	2-22
INSTALLATION, COUNTER	2-23



CAB, OPERATOR, RIGHT-HAND



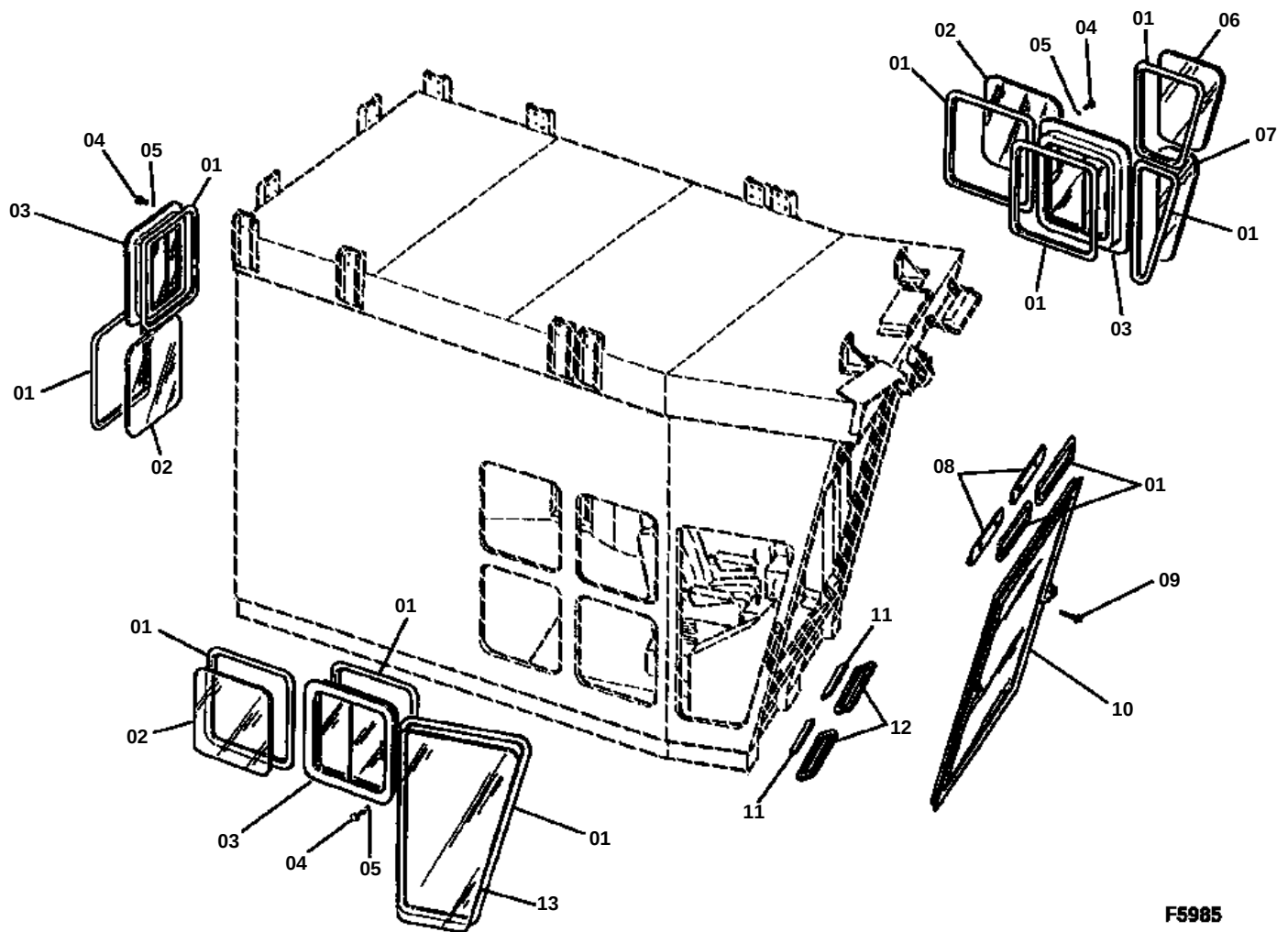
F5984

CAB, OPERATOR, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R15550F1	CAB, OPERATOR, RIGHT-HAND		
01	R15551F1	· CAB ASSEMBLY/WELDMENT, Operator, RH	1	2-5
02		NOT SHOWN		
03	R16150F1	· WINDOWS, Cab	1	2-2
(NOTE---The following items are not included with R15550F1)				
04	100J5746F6	WIPER/WASHER, Cab windshield	1	2-4
05	R11483D1	FAN, Operators cab (Not shown)	1	
06	79U2752D6	RADIO SYSTEM, Complete (Not shown)	1	
07	R27104F1	INSTALLATION KIT, Propel brake indicator (Not shown)	1	
08	32Q639D124	· NAMEPLATE, "Propel Brake Air Pressure" (Not shown)	1	
09	56Z363D2	· LIGHT, Indicator - Green (Not shown)	1	
10	56Z448D7	· BULB (Not shown)	1	
11	56Z431D2	· LENS, Green (Not shown)	1	
12	R13918D45	DISPLAY, MMI Diagnostic (Not shown)	1	
13	R28576D1	PANEL, MMI Operator cab (Not shown)	1	
14	989N33F1	INCLINOMETER (Not shown)	1	2-22
15	27U417D4	SHADES, Window (Not shown)	1	
16	R3441F1	COUNTER INSTALLATION (Not shown)	1	2-23
17	980J37F1	HEATER/DEFROSTER, Operators cab (Not shown)	1	2-16
18	48J30D1	BASE, Auxiliary, operators seat (Not shown)	1	



WINDOWS, CAB



F5985



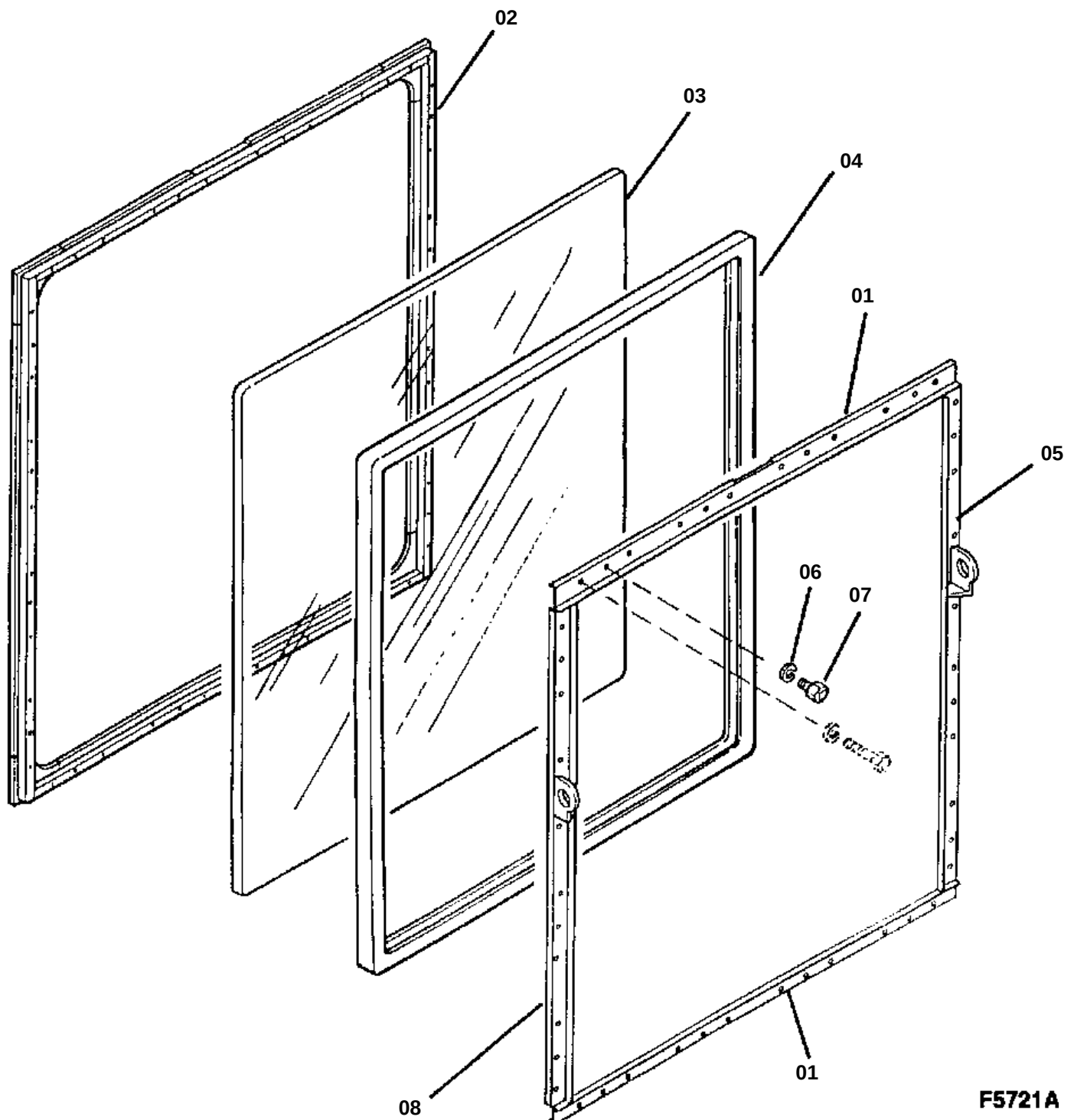
Machine
Serial Number: **4184**

WINDOWS, CAB

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R16150F1	WINDOWS, CAB		
01	27Z1356	• CHANNEL, Cab Glass	AR	
02	27Z826D1	• GLASS, Cab Window	5	
03	27U137D1	• WINDOW, Single slide, cab & door	3	
04	0846V080	• SCREW, Hex Hd Cap 10-24UNC x 3/8 in	60	
05	3616V005	• WASHER, Lock #10	60	
06	27Z1467D1	• GLASS, Cab window, left side upper	1	
07	27Z1468D1	• GLASS, Cab window, left side lower	1	
08	27Z1466D1	• GLASS, Cab window, front top	2	
09	20Z1703D73	• SCREW, Flanged Lock 3/8-16UNC x 2 in	32	
10	927N78F1	• WINDSHIELD, Cab	1	2-3
11	27Z1469D1	• GLASS Cab window, front bottom	2	
12	27Z1277	• CHANNEL, Cab glass	AR	
13	27Q768D1	• GLASS, Cab window, right side front	1	
14	32Z1806	• CAULK, Single slide windows (Not Shown)	AR	



WINDSHIELD, CAB



F5721A



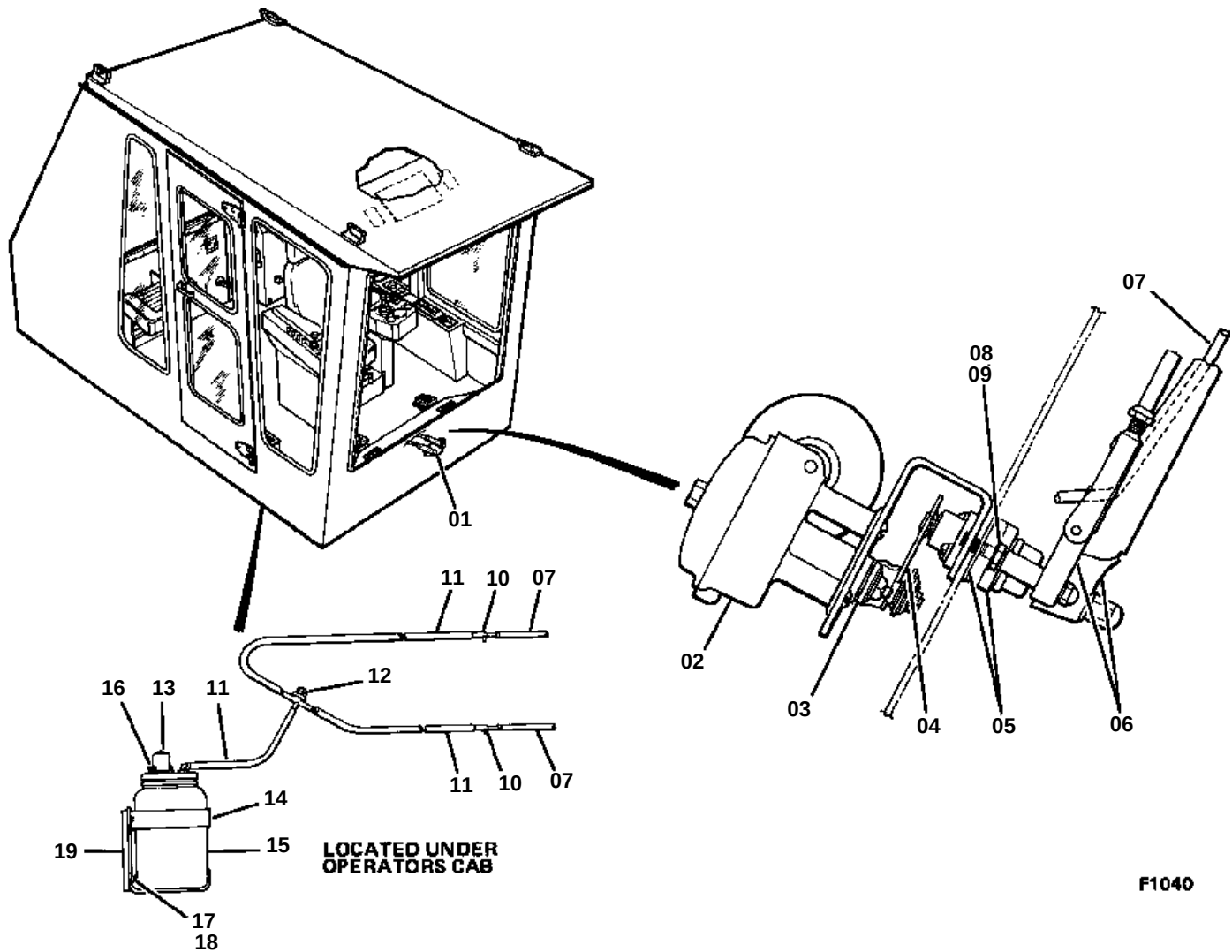
Machine
Serial Number: **4184**

WINDSHIELD, CAB

REF	PART NO.	DESCRIPTION	QTY
	927N78F1	WINDSHIELD, CAB	
01	18P1815	· RETAINER	2
02	727J8	· FRAME, Window	1
03	27Z1367D5	· GLASS, Front window	1
04	27Z1362	· CHANNEL, Window 25 ft	AR
05	18P8514D2	· RETAINER	1
06	3643V011	· WASHER, Lock 3/8 in - Heavy Duty	16
07	20Q260D255	· SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	16
08	18P8514D1	· RETAINER	1



WIPER, WINDSHIELD





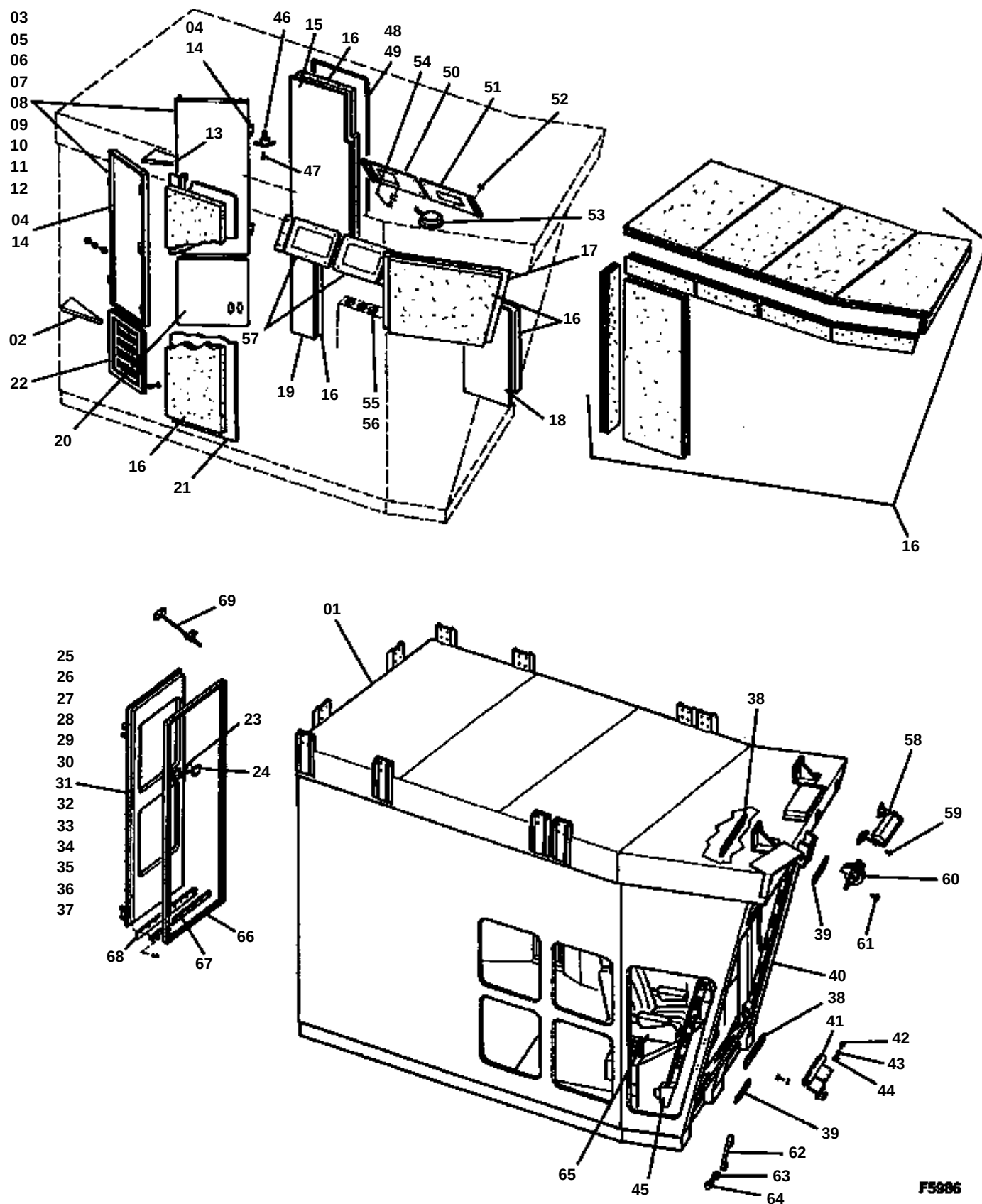
Machine
Serial Number: **4184**

WIPER, WINDSHIELD

REF	PART NO.	DESCRIPTION	QTY
	100J5746F6	WIPER, WINDSHIELD	
01	88Q199D1	• WIPER, Windshield- upper	1
	88Q199D2	• WIPER, Windshield - lower	1
NOTE: Wipers 88Q199D1 & 88Q199D2 also include remote mounted switch Reference 20.			
02	1088Z278	• • MOTOR, Wiper	1
03	1078Z324	• • ARM, Wiper drive	1
04	1088Z504	• • SHAFT AND ARM, Wiper pivot	1
05	16Z699D4	• • PLATE & GASKET, Mounting - Pivot arm	1
06	1088Z503	• • ARM, Panograph	1
	1034Z47	• • • NOZZLE KIT, Washer - Windshield	1
	88Q57D5	• • BLADE, Windshield Wiper	1
07	44Z2395D24	• HOSE, Windshield Washer 1/8	AR
08	20Q262D200	• SCREW, Hex Hd Cap 1/4-28 UNF x 2-1/4	4
09	18Z1732D12	• WASHER, Conical Lock 1/4",4	
10	44Z2396	• FITTING, Reducer	2
11	44Z2421D372	• HOSE, Windshield Washer 3/16	AR
12		NOT USED	
13	88Z635	• WASHER PARTS, Windshield	1
14	N.S.S	• • BRACKET	
15	1027Z422	• • RESERVOIR KIT	1
16	N.S.S	• • • PUMP	
17	0862V094	• SCREW, Pan Hd Cap #10-24 UNC x 3/8	3
18	3616V005	• WASHER, Lock #10	3
19	16T8993	• PAD, Mounting	1
20	79Q682D1	SWITCH, Wiper, 2-Speed (Not Shown)	1
21		SWITCH KIT, Washer	1



CAB ASSEMBLY/WELDMENT, OPERATOR, RIGHT-HAND



F5986



CAB ASSEMBLY/WELDMENT, OPERATOR, RIGHT-HAND

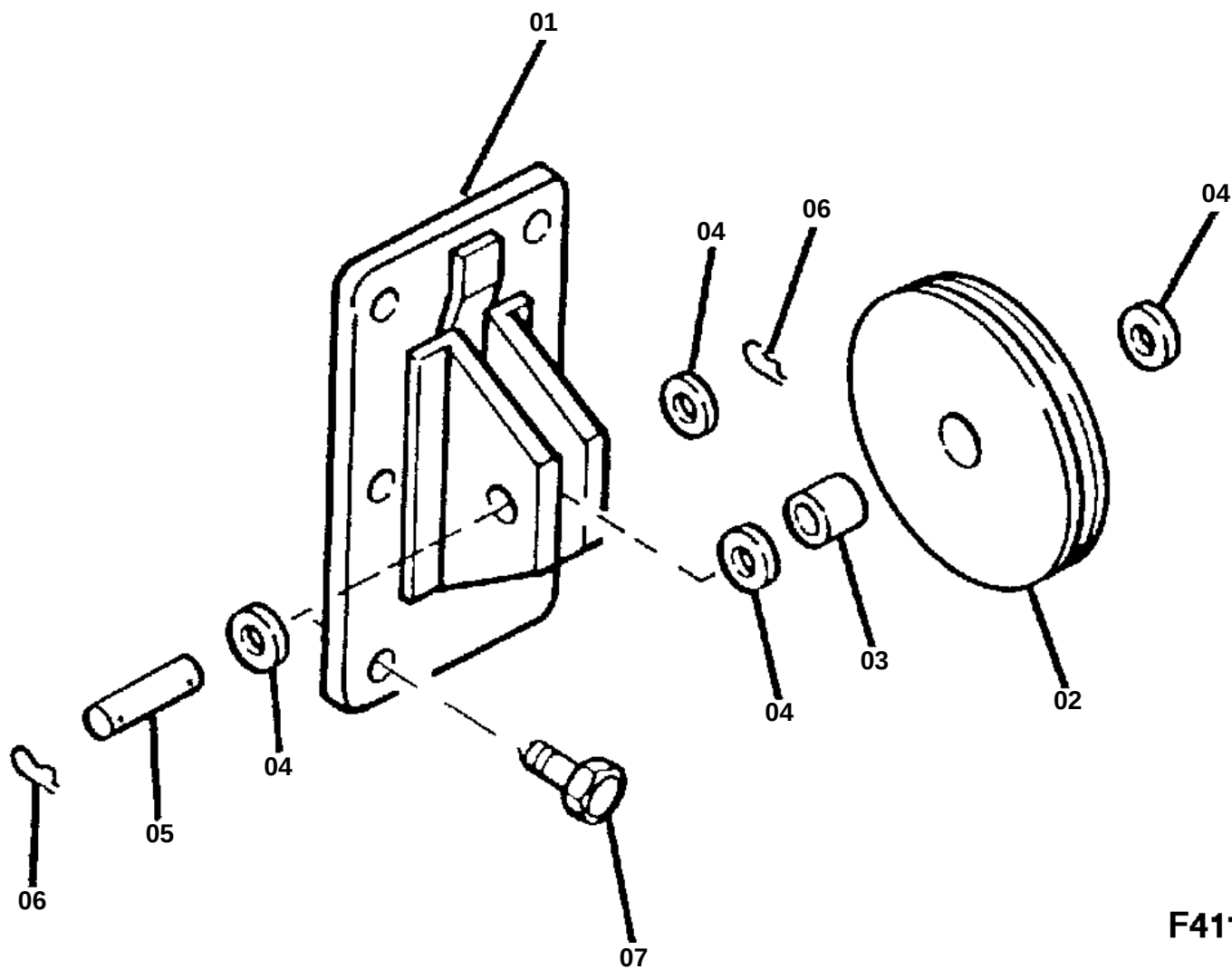
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R15551F1	CAB ASSEMBLY/WELDMENT, OPERATOR, RIGHT-HAND		
01	R15552D1	· WELDMENT, Cab (Right-hand As Shown)	1	
02	27P4319D1	· · SHELF	1	
03	27J3036F1	· · DOOR, Cabinet	2	
--	330241659	· · · GASKET, Strip (Not shown)	AR	
	21Z761D1	· · · ADHESIVE, Door Gasket (Not shown)	AR	
04	32H227	· · · HINGE	2	
05	16H3854	· · · HANDLE	1	
06	6Z81D1	· · · LOCK, Door	1	
07	20Z254D11	· · · SCREW, Rd Hd Cap #10-24UNC x 1/2 in	3	
08	3616V005	· · · WASHER, Lock #10	3	
09	18H4805D1	· · · PLATE, Latch	1	
10	6Z10D1	· · · HANDLE, Drop	1	
11	0862V135	· · · SCREW, Pan Hd Mach 1/4-20UNC x 5/8 in	4	
12	3616V007	· · · WASHER, Lock 1/4 in	4	
13	27P4319D2	· · SHELF	1	
14	32H226C1	· · HINGE	4	
15	R12562D1	· · PANEL, Wall, perforated	1	
16	R12844D1	· · PANEL, Sound	7	
17	R12565D1	· · PANEL, Wall, perforated	1	
18	R12561D1	· · PANEL, Wall, perforated	1	
19	R12563D1	· · PANEL, Wall, perforated	1	
20	27P4321D1	· · PANEL, Operators cab	1	
21	R12564D1	· · PANEL, Wall perforated	1	
22	27P4320D1	· · PANEL, Operators cab	1	
23	20T10027D1	· · SHIM	AR	
24	20T10027D2	· · SHIM	AR	
25	27J3094D1F1	· · DOOR, Cab entrance	1	
26	21U7	· · · LATCH, Door	1	
27	1006Z1632	· · · LEVER ASSEMBLY	1	
28	1006Z1631	· · · LOCKBODY & HANDLE ASSEMBLY	1	
29	1006Z1630	· · · STRIKER, Door latch	1	
30	20Z2488D1	· · · HINGE, Heavy duty	2	
31	0844V098	· · · SCREW, Fl Hd Mach 1/4-20UNC-2A x 5/8 in	10	
32	18H4148D7	· · · WASHER, Countersunk Lock 1/4 in	10	
33	20Z1703D17	· · · SCREW, Flanged Lock #10-24UNC x 1/2 in	3	
34	20Z1703D53	· · · SCREW, Flanged Lock 5/16-18UNC x 1 in	8	

CAB ASSEMBLY/WELDMENT, OPERATOR, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY	PAGE
35	20H1614D3	• • • NUT, Self locking 5/16-18UNC	8	
36	20Q777D1	• • • HANDLE	1	
37	20Q435D15	• • • SCREW, Fl button hd 1/4-20UNC x 1 in	2	
38	27N4186	• • BLOCK, Wiper mounting	2	
39	27N4187	• • BLOCK, Wiper mounting	2	
40	R1425D1	• • VENT, Heater/Defroster	1	
41	27N4470D1F1	• • GUARD, Wiper motor & footrest	1	
42	7862V136	• • • SCREW, Fl lock cap 1/4-20UNC x 3/4 in	3	
43	7616V007	• • • WASHER, Lock 1/4 in	3	
44	7631V005	• • • WASHER, Plain 1/4 in	3	
45	14J1923D1	• • VENT, Heater/Defroster	1	
46	R17225D1	• HOOK, Clothing	2	
47	20Z1703D21	• SCREW, Flanged Lock #10-24UNC x 1 in	12	
48	R12537D1	• ADHESIVE	AR	
49	R12536D1	• CHANNEL, Rubber	AR	
50	27J3535D1	• PANEL, PLS Coop accessory	1	
51	27J3536D1	• PANEL, PMD Coop accessory	1	
52	20Z1704D5	• NUT, Locking Flange 3/8-16UNC	12	
53	56Z538	• DOWNLIGHT, Incandescent	1	
54	20Q435D23	• SCREW, Fl button hd 3/8-16UNC x 1-1/4 in,12		
55	27Z1457D1	• VEIN LOUVER, Round	12	
56	27Z1456D1	• ADAPTER, Hose	12	
57	27J3537D1	• PANEL, Coop accessory	2	
58	56Z315	• MIRROR, Rear view	1	
59	20Z1703D29	• SCREW, Flanged Lock 1/4-20UNC x 3/8 in	4	
60	907N23F1	• SHEAVE ASSEMBLY	1	2-6
61	20Z1703D67	• SCREW, Flanged Lock 3/8-16UNC x 3/4 in	6	
62	6Z835D1	• HANDLE, Assist	1	
63	18H4148D7	• WASHER, Countersunk Lock 1/4 in	4	
64	0844V098	• SCREW, Fl Hd Mach 1/4-20UNC-2A x 5/8 in	4	
65	948J22F1	• CONSOLE ASSEMBLY, Operator	1	2-7
66	20Z1745D2	• SEAL, Door trim	AR	
67	27P4067	• CLAMP, Door bottom seal	1	
68	27P4066D1	• SEAL, Door bottom	1	
69	927N93F1	• HOLDER, Door	1	



SHEAVE ASSEMBLY



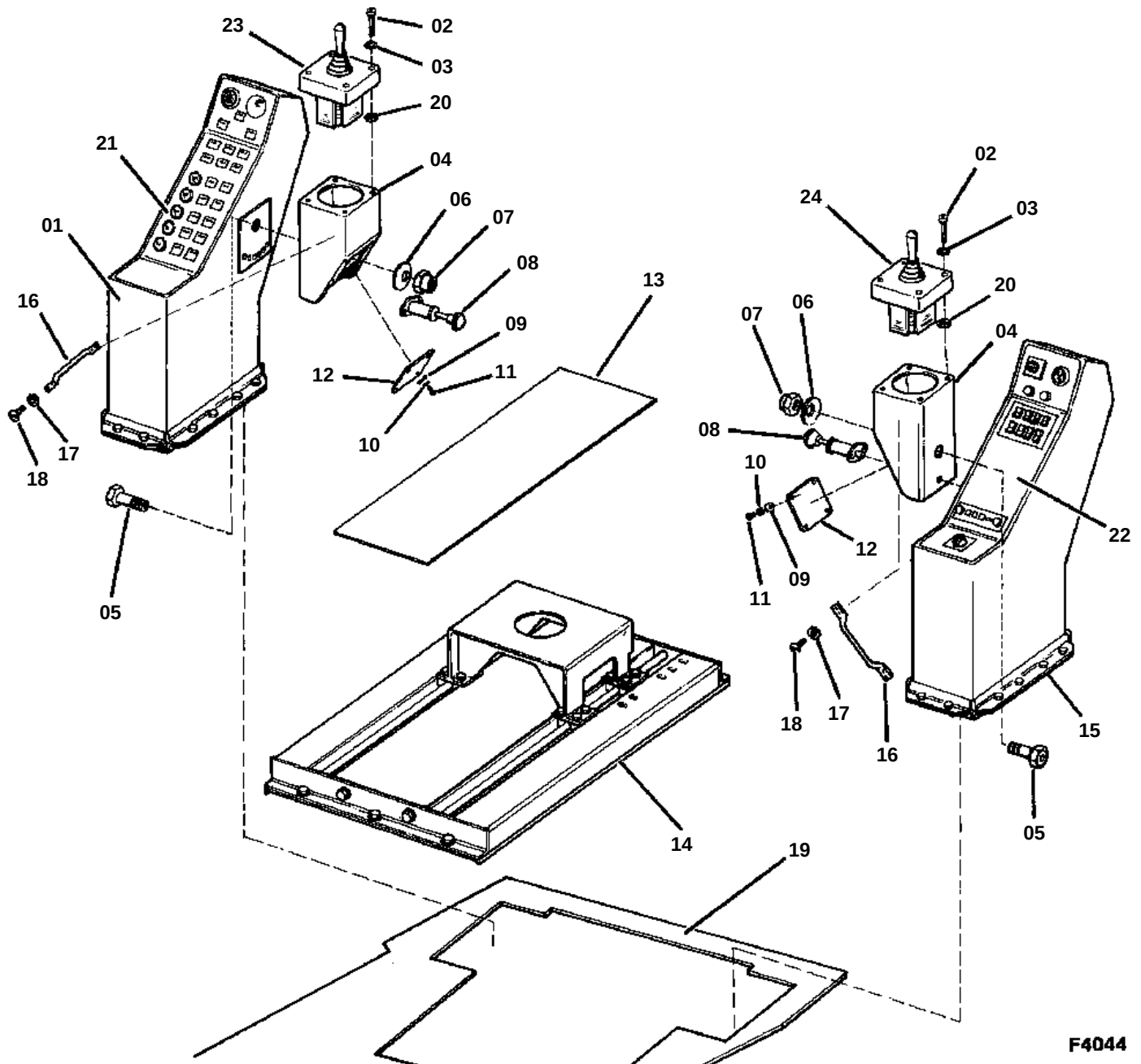
F4118

SHEAVE ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	907N23F1	SHEAVE ASSEMBLY	
01	16N3417	· BRACKET, Sheave	1
02	7T360F1	· SHEAVE	1
03	5T3180	· · BUSHING	1
04	3631V009	· WASHER, Plain 1/2 in	4
05	19F50D65	· PIN	1
06	19Z297D1	· PIN, Retainer	2
07	20Z1703D67	· SCREW, Flanged Lock 3/8-16UNC x 3/4 in	6



CONSOLE ASSEMBLY, OPERATOR ---RH CAB



F4044



CONSOLE ASSEMBLY, OPERATOR ---RH CAB

REF	PART NO.	DESCRIPTION	QTY	PAGE
	948J22F1	CONSOLE ASSEMBLY, OPERATOR--RH CAB		
01	48J27D2	· CONSOLE, Operator, LH	1	
02	7830V052	· SCREW, Hex Soc Hd Cap 3/8-16 x 2-3/4 in	4	
03	3616V009	· LOCKWASHER, 3/4 in	4	
04	80J5D1	· BOX, Controller	2	
05	20P1971D1	· BOLT, Drilled	2	
06	17Z286D45	· DISC, Spring	2	
07	20H1614D14	· NUT, Hex W/Nylon Lock Insert	2	
08	906N89F1	· RELEASE, Control Box	2	
09	7616V005	· LOCKWASHER, #10	8	
10	7613V004	· WASHER, #10	8	
11	7862V098	· SCREW, Pan Hd Mach #10-24UNC x 5/8 in	8	
12	14T2051D1	· COVER, Control Box	2	
13	11Z50	· SURFACING, Non-slip, 13-1/2 x 48 Feet	1	
14	948J20F2	· BASE, Operator seat	1	2-8
15	48J27D1	· CONSOLE, Operator, RH	1	
16	6Z835	· HANDLE	2	
17	18H4148D7	· LOCKWASHER, 1/4 in.	8	
18	0844V098	· SCREW, Fl Hd Mach 1/4-20UNC x 5/8 in	8	
19	R11361D1	· MAT, Floor	1	
20	18H3849	· WASHER, Felt	4	

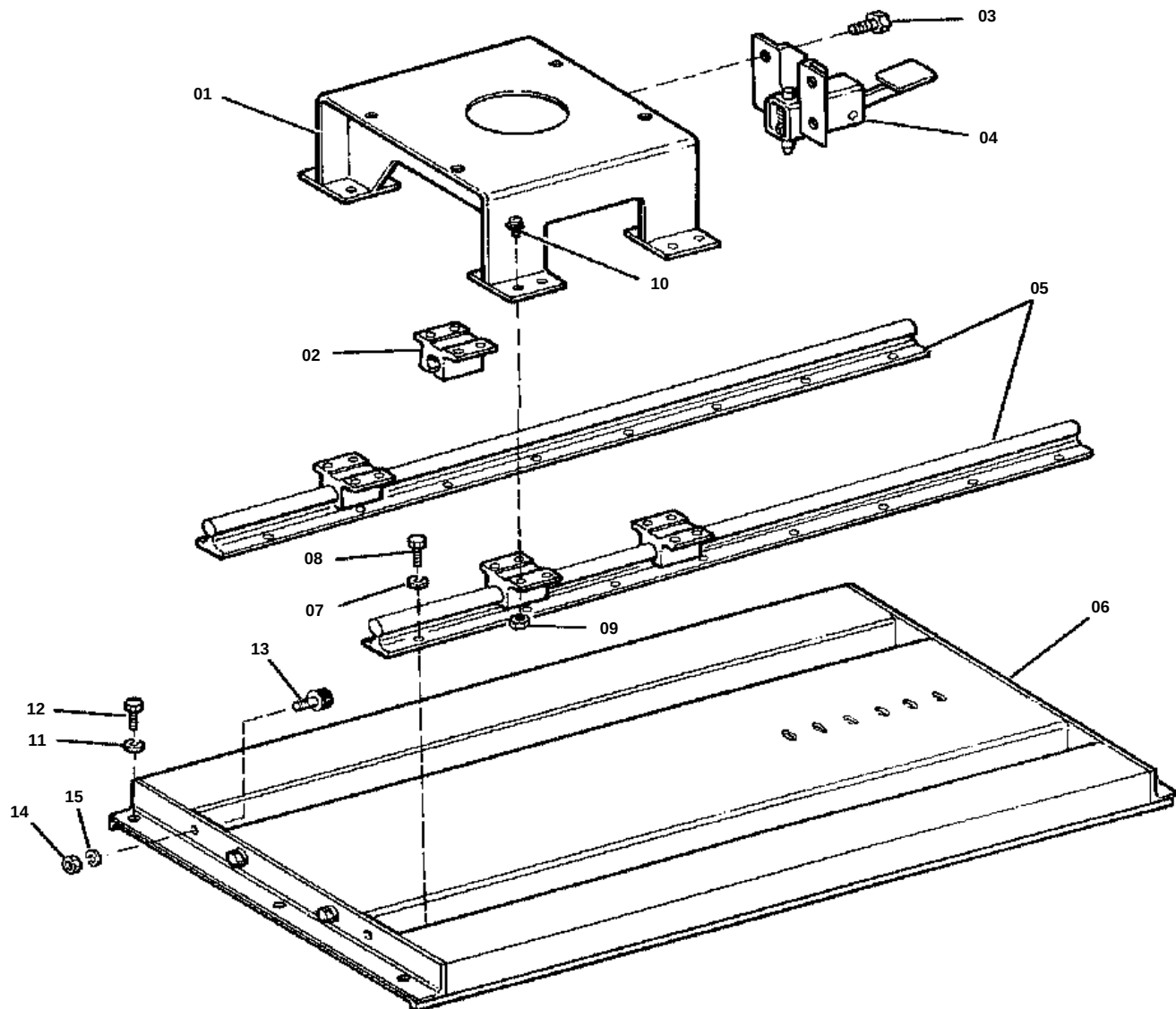
The following items are not included with 948J22F2:

21	R17443F1	PANEL, Console, Left-hand (Not as shown)	1	2-9
22	R3545F1	PANEL, Console, Right-hand	1	2-12
23		JOYSTICK, Left-hand (See Note)	1	2-13
24		JOYSTICK, Right-hand (See Note)	1	2-13
25	R36924D1	SEAT, Operator (Not shown)	1	
26	R4471F1	MODIFICATION KIT, Controller (Not shown)	1	2-13

NOTE: Both "Joysticks" have been modified per KIT reference #26.



BASE, OPERATOR SEAT



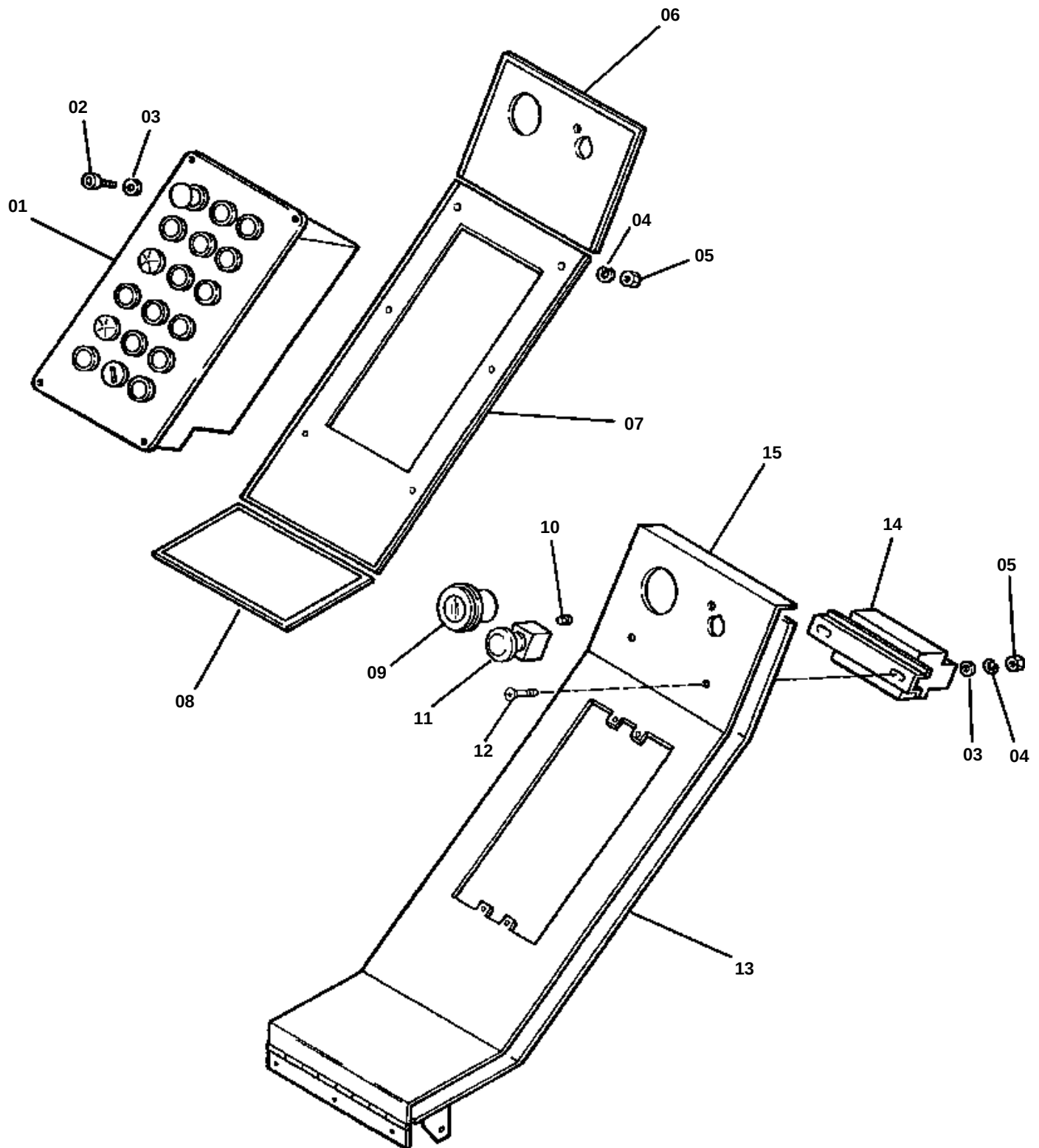
F4090

BASE, OPERATOR SEAT

REF	PART NO.	DESCRIPTION	QTY
	948J20F2	BASE, OPERATOR SEAT	
01	48J29D2	· BASE, Operator's Seat	1
02	29Z287D2	· PILLOW BLOCK, Seat Track	4
03	20Z1703D69	· SCREW, Flanged Lock 3/8-16UNC x 1 in	4
04	906J124F1	· RELEASE, Operators Seat	1
05	29Q287D1	· RAIL, Seat Track	2
06	48J28D2F2	· BASE, Operator's Seat Track	1
07	3616V005	· WASHER, Lock #10	32
08	20Q260D192	· SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	32
09	20H1617D1	· NUT, Self locking #10-24UNF	16
10	20Z1703D21	· SCREW, Flanged Lock #10-24UNC x 1 in	16
11	3616V011	· WASHER, Lock 1/2 in	6
12	20Q260D325	· SCREW, Hex Hd Cap 1/2-13UNC x 1 in	6
13	16Q350D1	· BUMPER	4
14	20Q270D16	· NUT, 1/4 in. -20	4
15	3616V007	· LOCKWASHER, 1/4 in.	4



PANEL, CONSOLE, LEFT-HAND



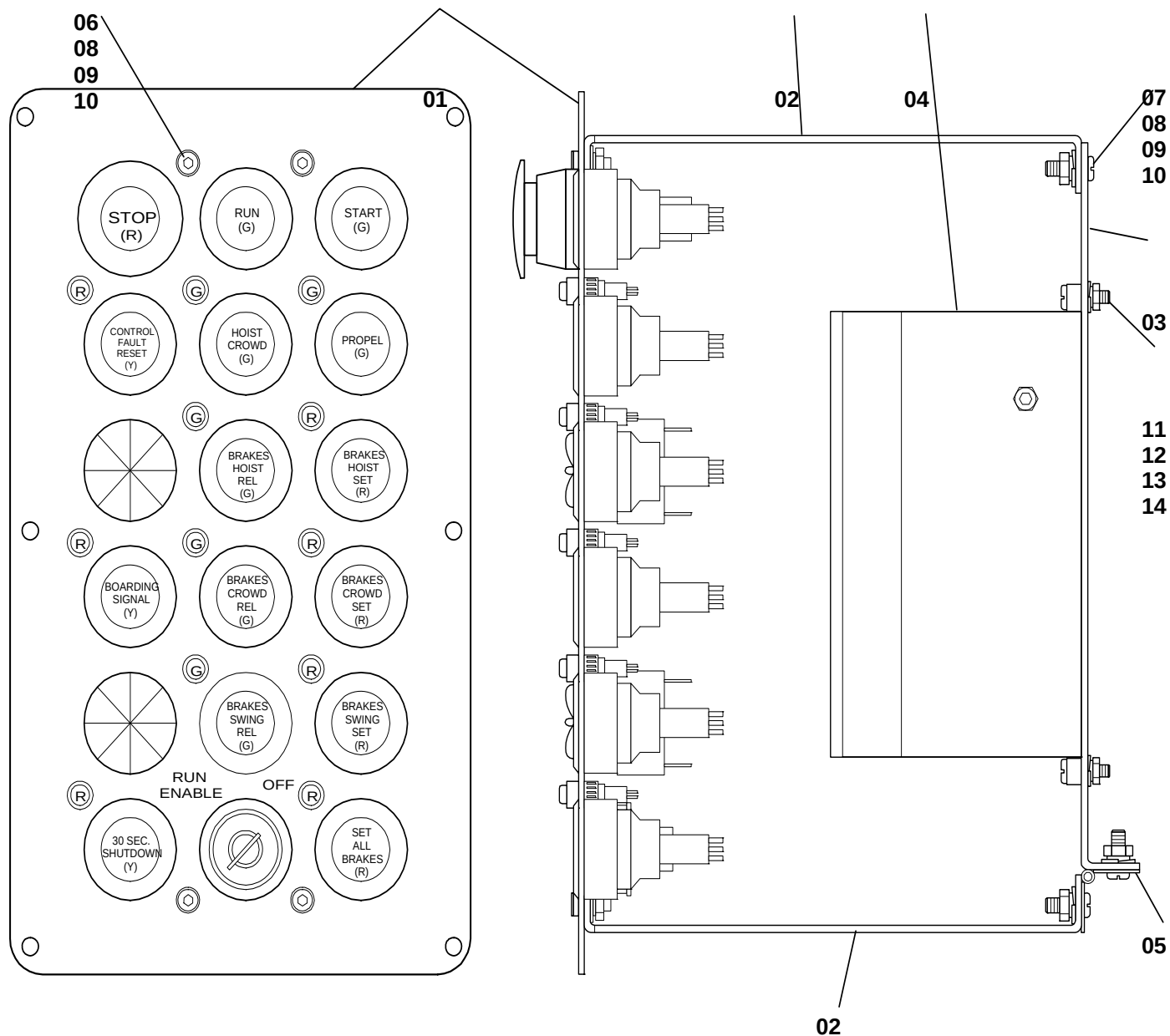
F6003A

PANEL, CONSOLE, LEFT-HAND

[illegible]



PANEL, PUSH BUTTON



F6739



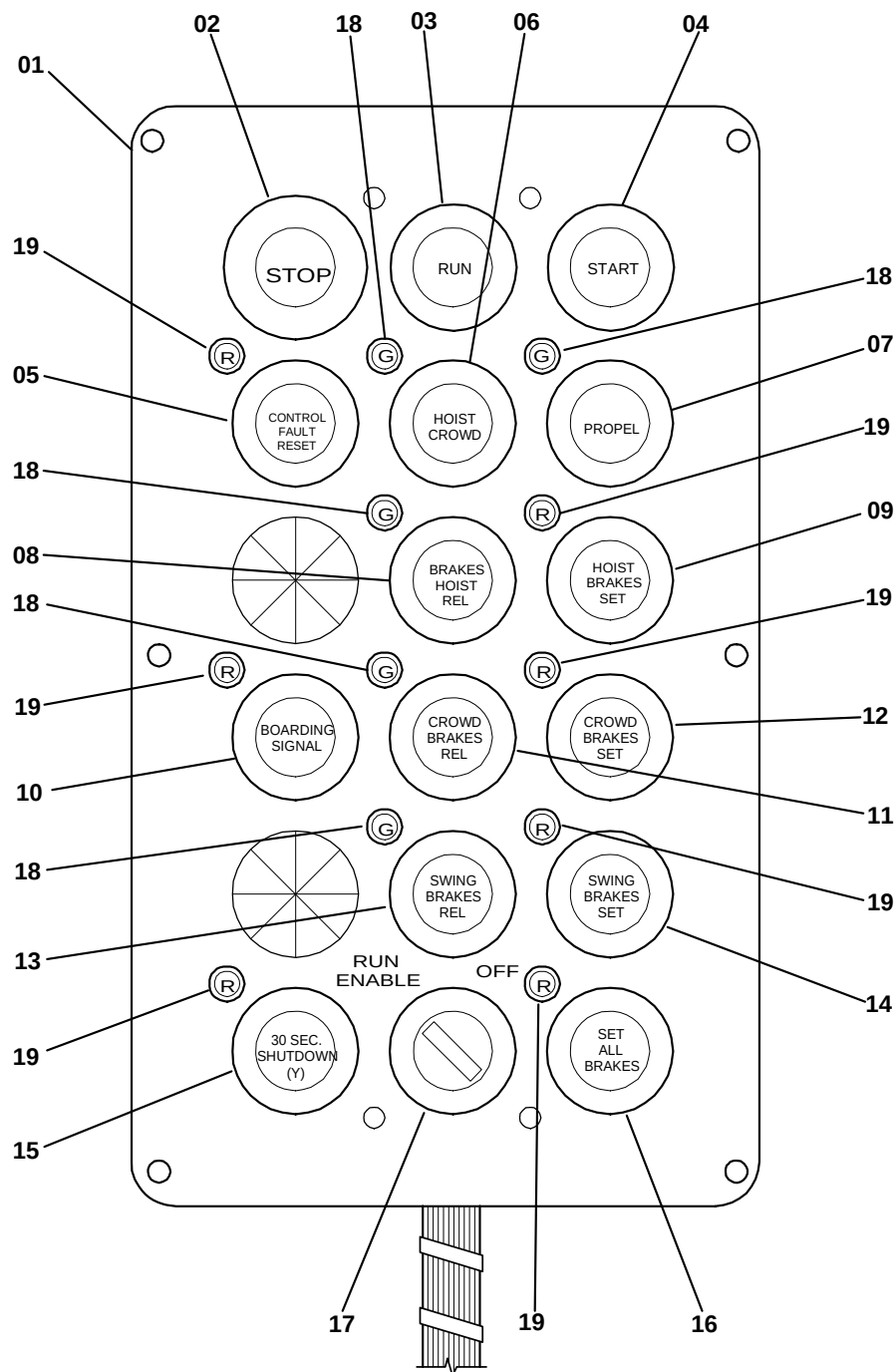
Machine
Serial Number: **4184**

PANEL, PUSH BUTTON

[illegible]



PANEL, PUSH BUTTON



F6739A



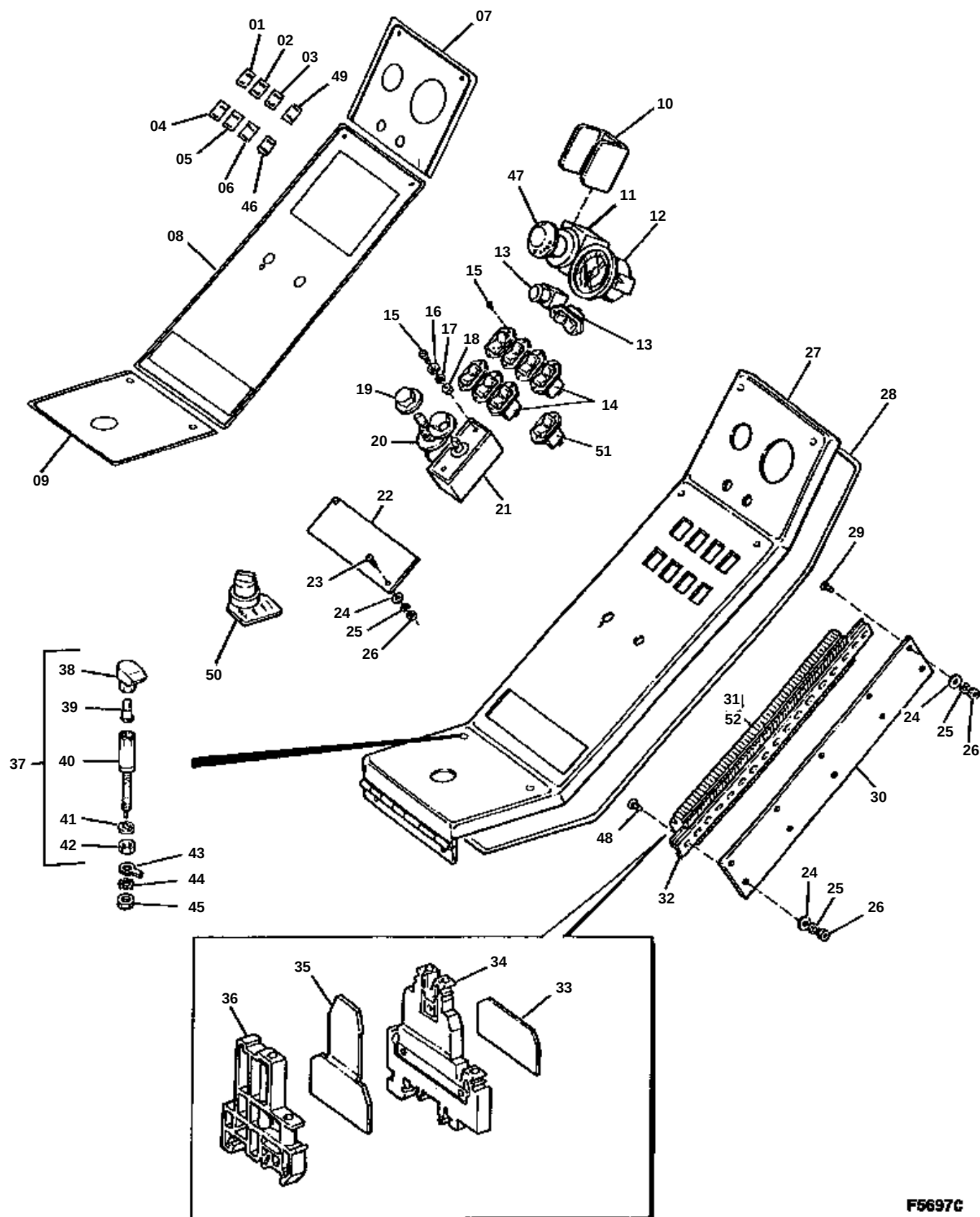
Machine
Serial Number: **4184**

PANEL, PUSH BUTTON

REF	PART NO.	DESCRIPTION	QTY
01	R26669D1	PANEL, PUSH BUTTON	1
02	R26669D2	· PUSH BUTTON, Stop	1
03	R26669D3	· INDICATOR, Run	1
04	R26669D4	· PUSH BUTTON, Start	1
05	R26669D5	· PUSH BUTTON, Control Fault Reset	1
06	R26669D6	· PUSH BUTTON, Hoist Crowd	1
07	R26669D7	· PUSH BUTTON, Propel	1
08	R26669D8	· PUSH BUTTON, Brakes Hoist Release	1
09	R26669D9	· PUSH BUTTON, Hoist Brakes Set	1
10	R26669D10	· INDICATOR, Boarding Signal	1
11	R26669D11	· PUSH BUTTON, Crowd Brakes Release	1
12	R26669D12	· PUSH BUTTON, Crowd Brakes Set	1
13	R26669D13	· PUSH BUTTON, Swing Brakes Release	1
14	R26669D14	· PUSH BUTTON, Swing Brakes Set	1
15	R26669D15	· INDICATOR, 30 Sec Shutdown	1
16	R26669D16	· PUSH BUTTON, Set All Brakes	1
17	R26669D17	· SWITCH, Key Operated	1
18	R26669D18	· INDICATOR, Green	4
19	R26669D19	· INDICATOR, Red	7



PANEL, CONSOLE, RIGHT-HAND



F5697C



PANEL, CONSOLE, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY
	R3545F1	PANEL, CONSOLE, RIGHT-HAND	
01	32Q1940D1	• NAMEPLATE, Motor Heater	1
02	32Q1940D2	• NAMEPLATE, House Heater	1
03	32Q1940D3	• NAMEPLATE, Window Defrost	1
04	32Q1940D4	• NAMEPLATE, Floodlights	1
05	32Q1940D6	• NAMEPLATE, Console Lights	1
06	32Q1940D5	• NAMEPLATE, Coop Lights	1
07	R15602D1	• NAMEPLATE, Console - R.H. Upper	1
08	R15603D1	• NAMEPLATE, Console - R.H. Middle	1
09	R14250D1	• NAMEPLATE, Console - Lower	1
10	14H1916	• GUARD, Pushbutton	1
11	79Z2717D31	• PUSHBUTTON, Red	1
12	89Z691	• GAUGE, Pressure	1
13		• SWITCHES, Windshield Wiper/Washer (See Windshield Wiper Assembly)	1
14	79U2337D4	• SWITCH, Rocker	7
15	20Z1265D46	• SCREW, Low Hd Soc Cap #6-32UNC x 3/4 in	18
16	3631V002	• WASHER, Plain #6	6
17	3616V003	• WASHER, Lock #6	6
18	2136V003	• NUT, Hex #2-32UNC	2
19	6Z34	• KNOB	2
20	80Z864D30	• RHEOSTAT, 25W	1
21	79Z5663D1	• SWITCH, Dimmer	1
22	14T2053	• COVER, Radio	1
23	20Z1265D8	• SCREW, Low Hd Soc Cap #10-24UNC x 5/8 in	2
24	3631V004	• WASHER, Plain #10	8
25	3616V005	• WASHER, Lock #10	6
26	2136V005	• NUT, Hex #2-24UNC	6
27	79J189	• PANEL, Console - Right Hand	1
28	330241492	• GASKET, Neoprene 1/8 x 1/2 x 80 in	1
29	0862V096	• SCREW, Pan Hd Mach #10-24UNC x 1/2 in	2
30	16P7187	• SUPPORT, Cable	1
31	79T496D56	• BLOCK, Terminal 56 Section	1
32	79Q1676D2	• • RAIL, Mounting	1
33	79Q1676D4	• • SPACER	AR
34	79Q1676D1	• • BLOCK, Terminal	112
35	79Q1676D3	• • COVER, End	1
36	79Q1676D7	• • CLAMP, End	2

PANEL, CONSOLE, RIGHT-HAND

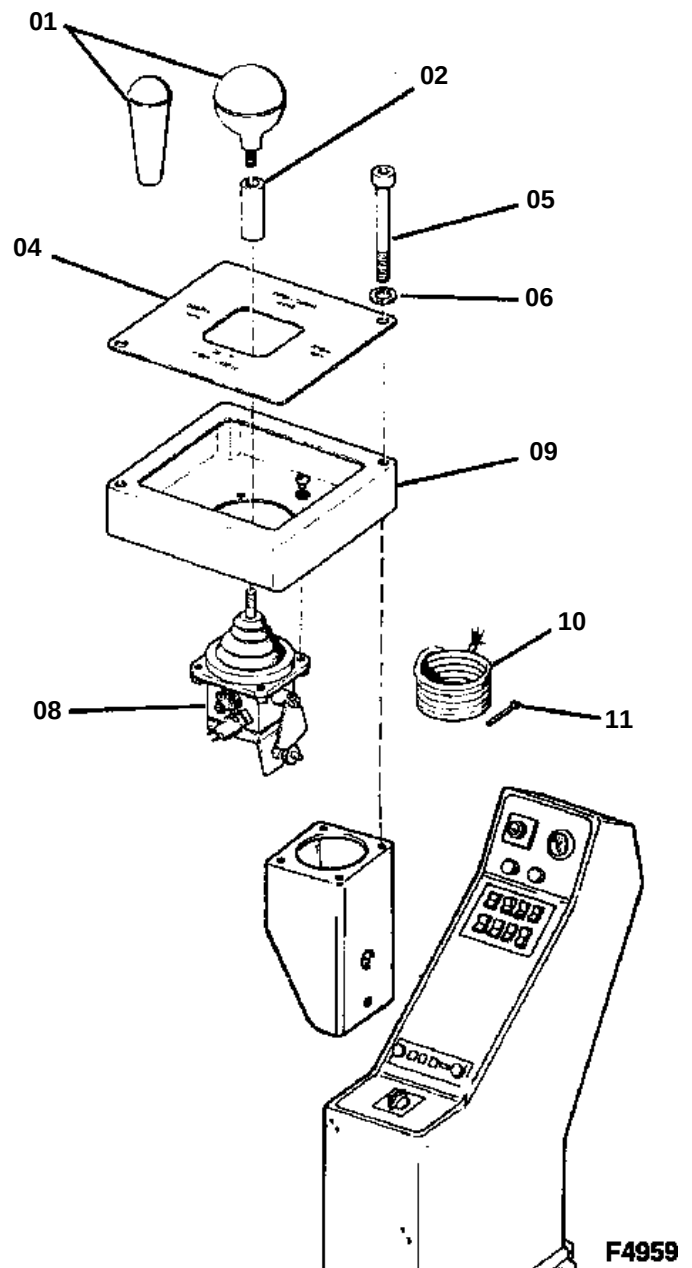
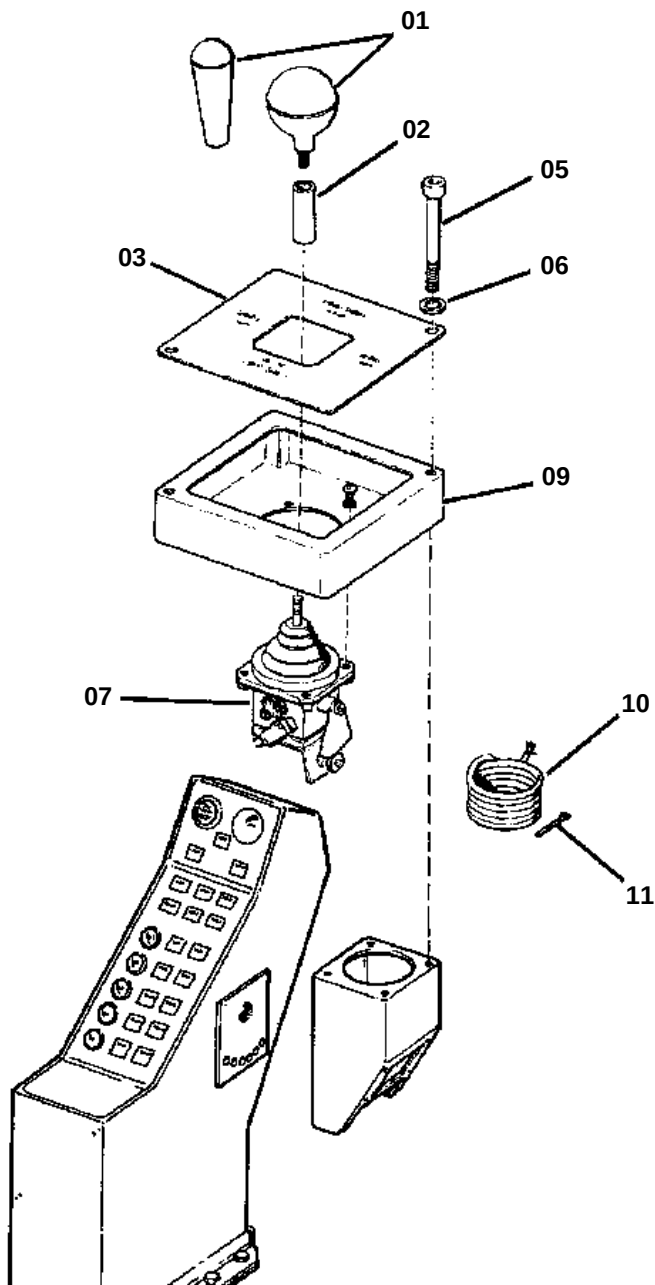
REF	PART NO.	DESCRIPTION	QTY
37	56Z521D1	· POST, Lamp	6
38	1056Z312	· · HOOD, Lamp (Blue)	1
39	56Z566D1	· · BULB	1
40	1056Z314	· · BASE, Lamp	1
41	3616V004	· · WASHER, Lock #8	1
42	2038V004	· · NUT, Hex #8-32UNC BRASS	1
43	79Q242D121	· TERMINAL, Insulated	6
44	18Z2936D5	· WASHER, Lock 5/32 in	6
45	2136V004	· NUT, Hex #2-32UNC	6
46	32Q1940D11	· NAMEPLATE, Fan	1
47	79Z2721D35	· CAP, Engraved 'E-STOP' - Red, Jumbo	1
48	0862V099	· SCREW, Pan Hd Mach #10-24UNC x 3/4 in	2
--	21Z516D2	· ADHESIVE (Not Shown)	AR
	79Z566D2	· DUCT, Wiring 1 x 3 x 15 in (Not Shown)	1
49	32Q1940D7	· LABEL, Blank	1
50		CONTROL, Air Conditioner (See Air Conditioner)	1

(NOTE: Air Control is not supplied with Console Panel)

51	79U2337D47	• SWITCH, Rocker	1
52	79Q1676D5	• BAR, Fixed Bridge	1
53	0862V016	• SCREW, Pan Hd Mach #6-32UNC x 1/2 in	4



MODIFICATION KIT, CONTROLLER



F4959

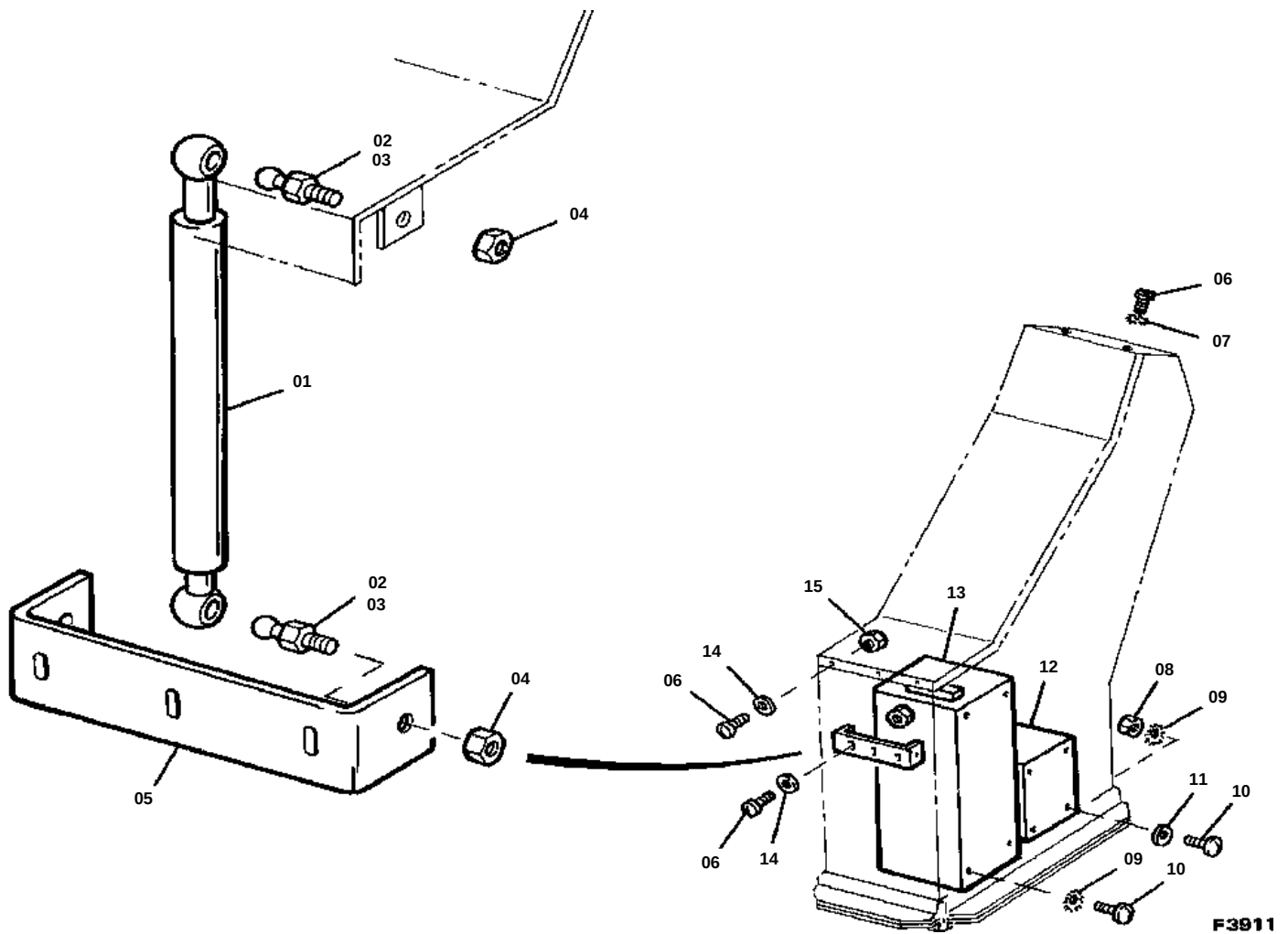


Machine
Serial Number: **4184**

REF	PART NO.	DESCRIPTION	QTY
	R4471F1	MODIFICATION KIT, CONTROLLER	
01	R8122D1	· KNOB, Ball, Revolving	2
02		NOT USED	
03	R4409D1	· NAMEPLATE, Controller-Left Hand	1
04	R4411D1	· NAMEPLATE, Controller-Right Hand	1
05	0630V053	· SCREW, Hex Soc Hd Cap 3/8-16UNRC x 3 in	4
06	18Z733D11	· WASHER, Lock - Internal Tooth 3/8 in	4
07	R26780D1	· CONTROLLER, Crowd	1
--	1045Z3781	· · BOOT, Controller	1
08	R26780D2	· CONTROLLER, Hoist/Swing	1
--	1045Z3781	· · BOOT, Controller	1
09	14J1784D1	· COVER ASSEMBLY	2
10	R4530D3	· WRAP, Spiral 10 ft	AR
11	32Z890D3	· TY-RAP	20
12	21Z516D5	· ADHESIVE (Not Shown)	1



MODIFICATION KIT, CONSOLE





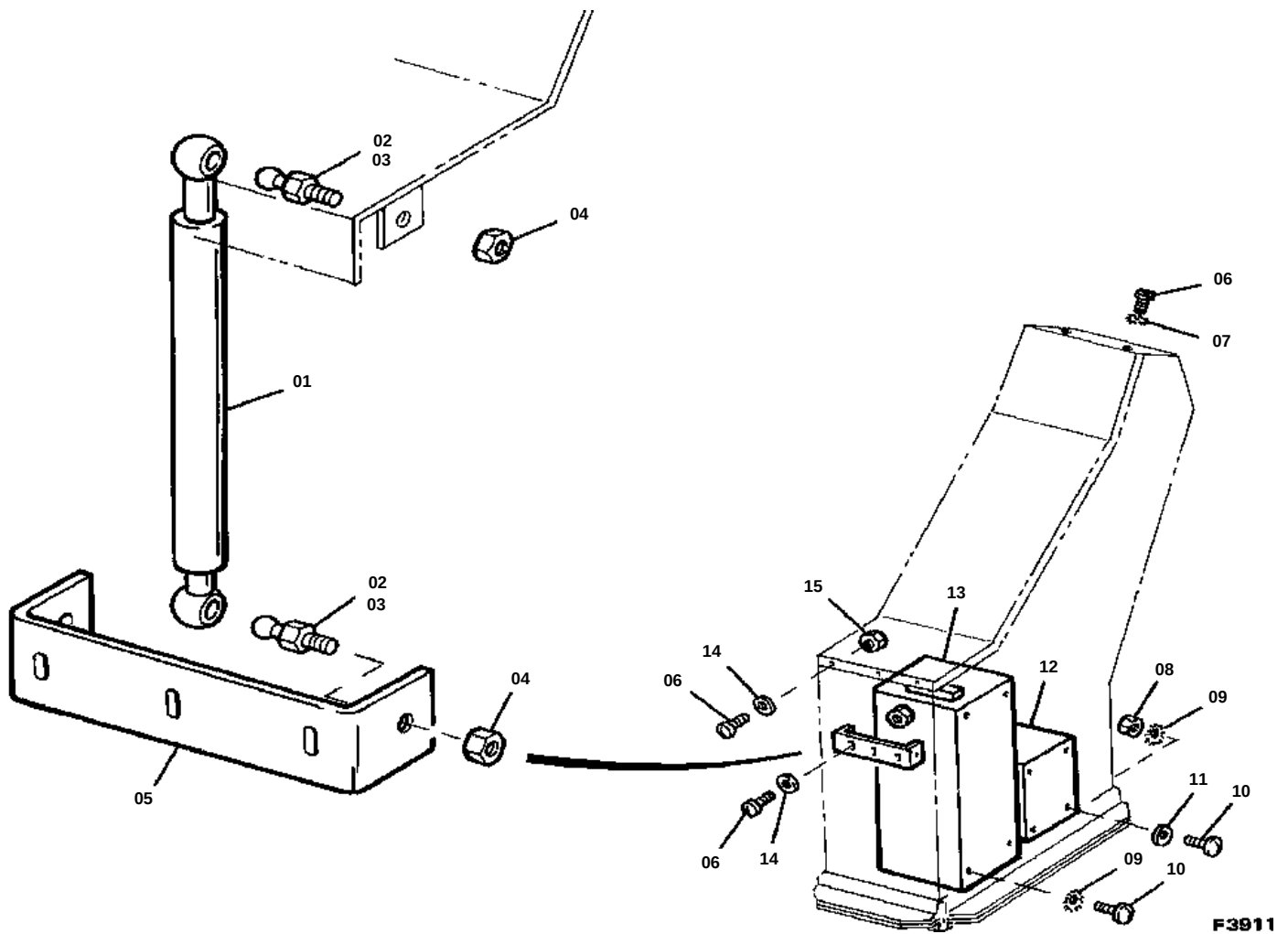
Machine
Serial Number: **4184**

MODIFICATION KIT, CONSOLE

REF	PART NO.	DESCRIPTION	QTY
	1100J854F1	MODIFICATION KIT, CONSOLE	
01	16U82D1	• SPRING, Gas	2
02	16U82D2	• STUD, Ball	4
03	16U82D3	• CLIP, Retaining	4
04	20H1617D3	• NUT, Self locking 5/16-18UNC	4
05	16P7245D1	• BRACKET, Support	1
06	20Z1265D14	• SCREW, Low Hd Soc Cap 1/4-20UNC x 3/4 in	8
07	18H4145D7	• WASHER, External Lock 1/4 in	2
08	2136V004	• NUT, Hex #2-32UNC PS 560	4
09	18H4145D4	• WASHER, External Lock #8	8
10	20Z1265D4	• SCREW, Low Hd Soc Cap 5/32-32UNC x 3/4 in	8
11	3631V003	• WASHER, Plain #8 MPC	4
12	75Z1325D1	• SUPPLY, Power	1
13	75Z1323	• SUPPLY, Power	1
14	3631V005	• WASHER, Plain 1/4 in MPC	6
15	20H1617D2	• NUT, Self locking 1/4-20UNC	6



MODIFICATION KIT, CONSOLE





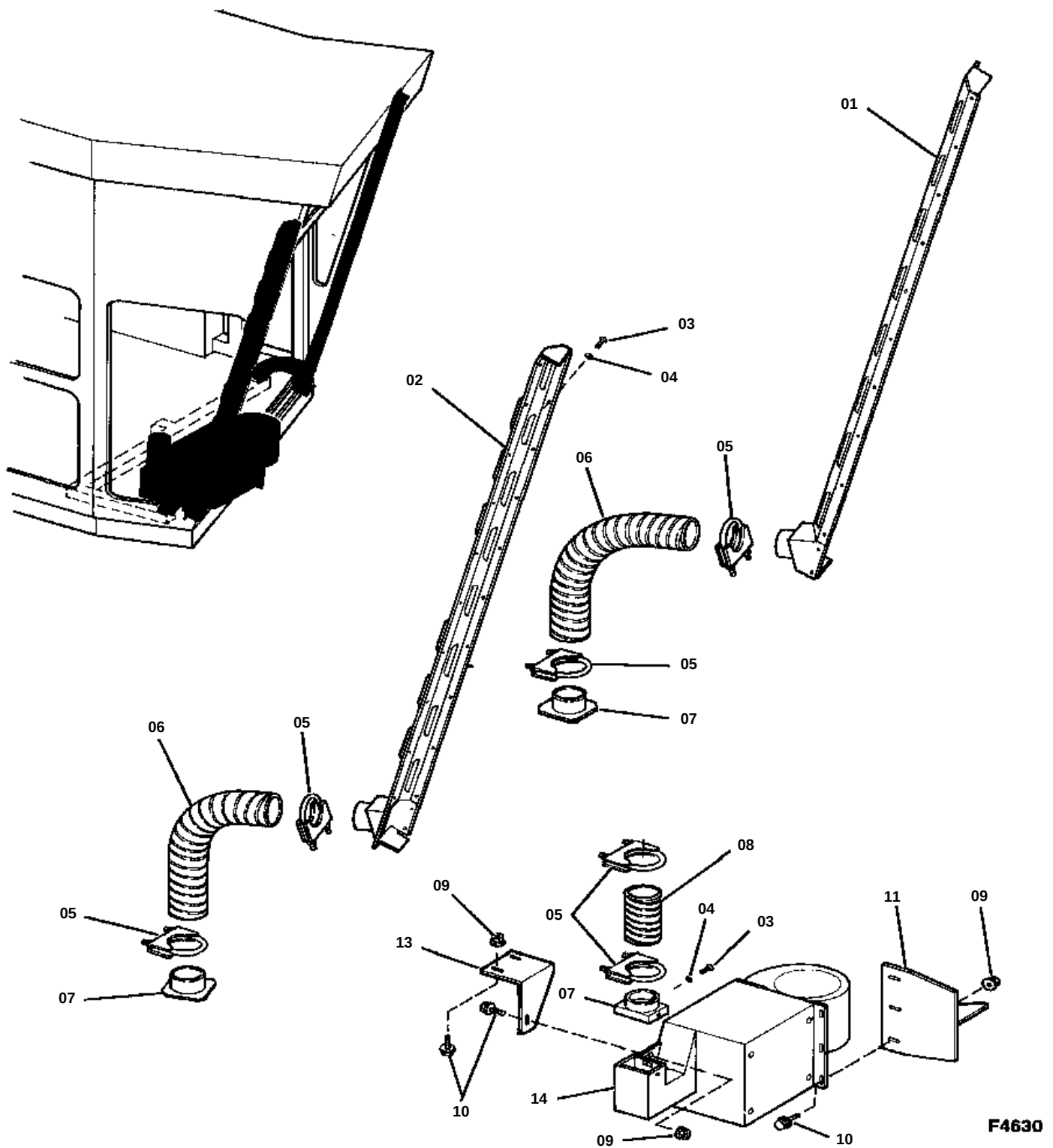
Machine Serial Number: **4184**

MODIFICATION KIT, CONSOLE

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HEATER/DEFROSTER ASSEMBLY



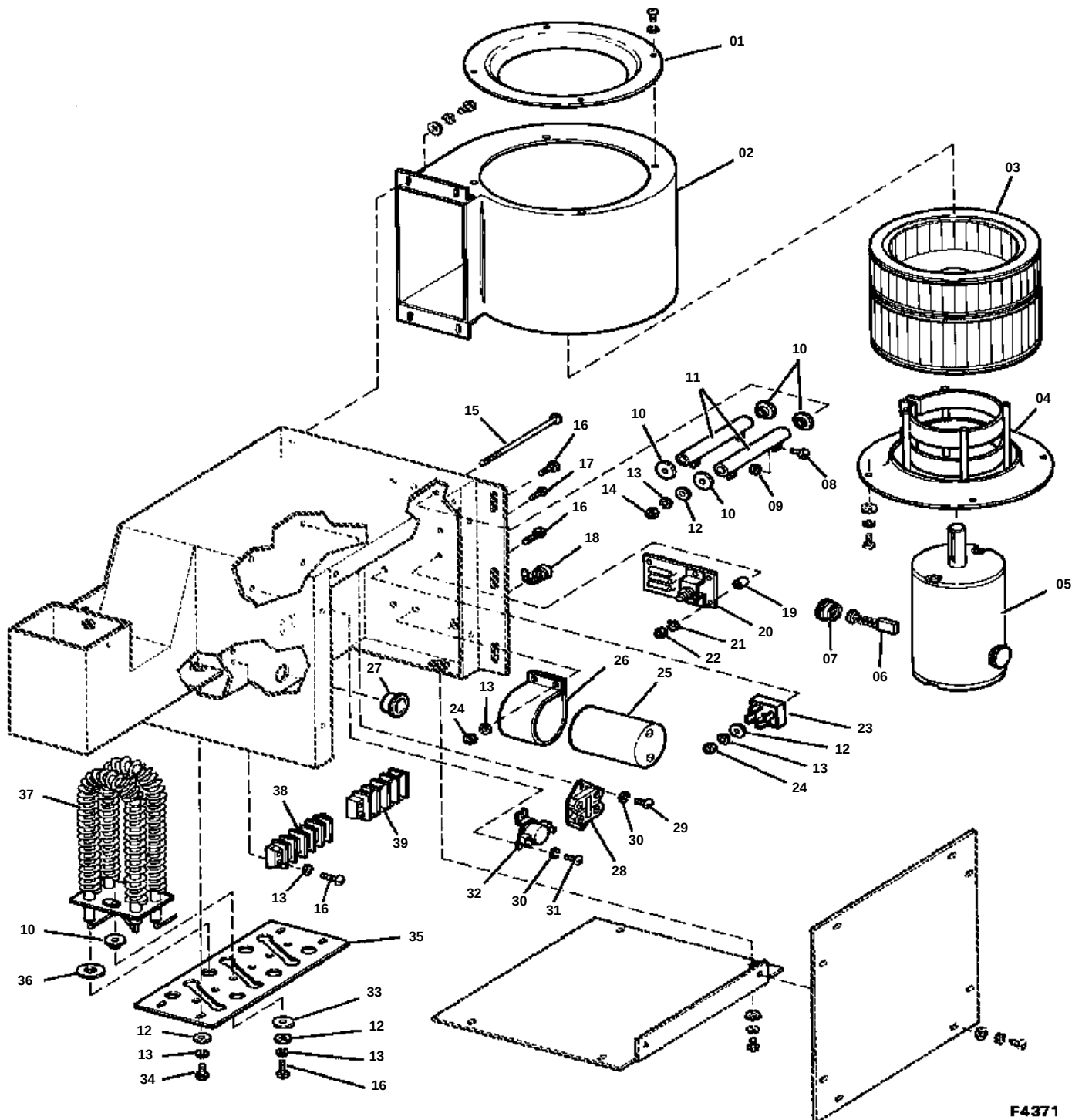


HEATER/DEFROSTER ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	980J37F1	HEATER/DEFROSTER ASSEMBLY		
(NOTE: Items 01 and 02 are not included with 980J37F1)				
01	R1425D1	• VENT, Left-hand	1	
02	14J1923D1	• VENT, Right-hand	1	
03	7863V094	• SCREW, Rd Hd Mach #10-32UNF x 3/8 in	8	
04	7616V005	• LOCKWASHER, #10	8	
05	32Z171D15	• CLAMP	6	
06	44Z1308D6	• HOSE, Flexible Exhaust	2	
07	27T2572D1	• HOSE, Adapter	2	
08	44Z1308D10	• HOSE, Flexible Exhaust	1	
09	20Z1704D1	• NUT, Locking Flange 1/4-20UNC	8	
10	20Z1703D35	• SCREW, Flanged Lock 1/4-20UNC x 1-1/4 in	8	
11	16P7372D1	• BRACKET, Front	1	
12	27P3943	• DEFROSTER, Adapter	1	
13	16P7373D1	• BRACKET, Rear	1	
14	80U30D2	HEATER/DEFROSTER	1	2-17
(NOTE: Heater/Defroster is not included with 980J37F1)				



HEATER



F4371



HEATER

REF	PART NO.	DESCRIPTION	QTY
	80U30D2	HEATER	
01	1027Z498	• RING, Inlet	1
02	1027Z499	• WELD ASSEMBLY, Blower	1
03	1049Z396	• WHEEL, Blower	1
04	1016Z1241	• MOUNT ASSEMBLY, Motor	1
05	1088Z483	• MOTOR	1
06	1073Z310	• BRUSH, Motor	2
07	1014Z4196	• COVER, Motor Brush	2
08	1020Z12444	• SCREW, Pan Hd Brass 8-32 x 1/4	4
09	1020Z12437	• NUT, Brass 8-32	4
10	1018Z12202	• WASHER, Fiber Shoulder	10
11	1080Z594	• RESISTOR, 50 Watt	2
12	1018Z12200	• WASHER, Flat #10	16
13	1018Z12199	• WASHER, Lock #10	29
14	1020Z12435	• NUT, Hex 10-24	2
15	1020Z12443	• SCREW, Rd Hd 10-24 x 5	2
16	1020Z12442	• SCREW, Rd Hd 10-32 x 3/4	16
17	1020Z12440	• SCREW, Rd Hd 6-32 x 5/8	4
18	1079Z6139	• RELIEF, Strain	1
19	1018Z12205	• SPACER, 1/4 Nylon	4
20	1006Z1596	• BOARD ASSEMBLY, Triac	1
21	1018Z12201	• WASHER, External Lock #6	4
22	1020Z12436	• NUT, Hex 6-32	4
23	1075Z918	• RECTIFIER, Bridge	1
24	1020Z12434	• NUT, Hex 10-32	3
25	1084Z63	• CAPACITOR	1
26	1079Z61415	• STRAP	1
27	1005Z1188	• BUSHING, Snap	1
28	1089Z194	• THERMOSTAT, Overtemp	1
29	1020Z12441	• SCREW, Rd Hd 8-32 X 5/8	2
30	1018Z12198	• WASHER, Lock #8	4
31	1020Z12439	• SCREW, Rd Hd 8-32 x 3/8	2
32	1089Z177	• CONTROL, Temperature	1
33	1018Z12204	• WASHER, Teflon 3/4 O D x 5/16 I D	6
34	1020Z12438	• SCREW, Rd Hd 10-32 x 1/2	4
35	1014Z4197	• PANEL, Heater Mounting	1
36	1018Z12203	• WASHER, Teflon 1 in O D 1/2 in I D	6



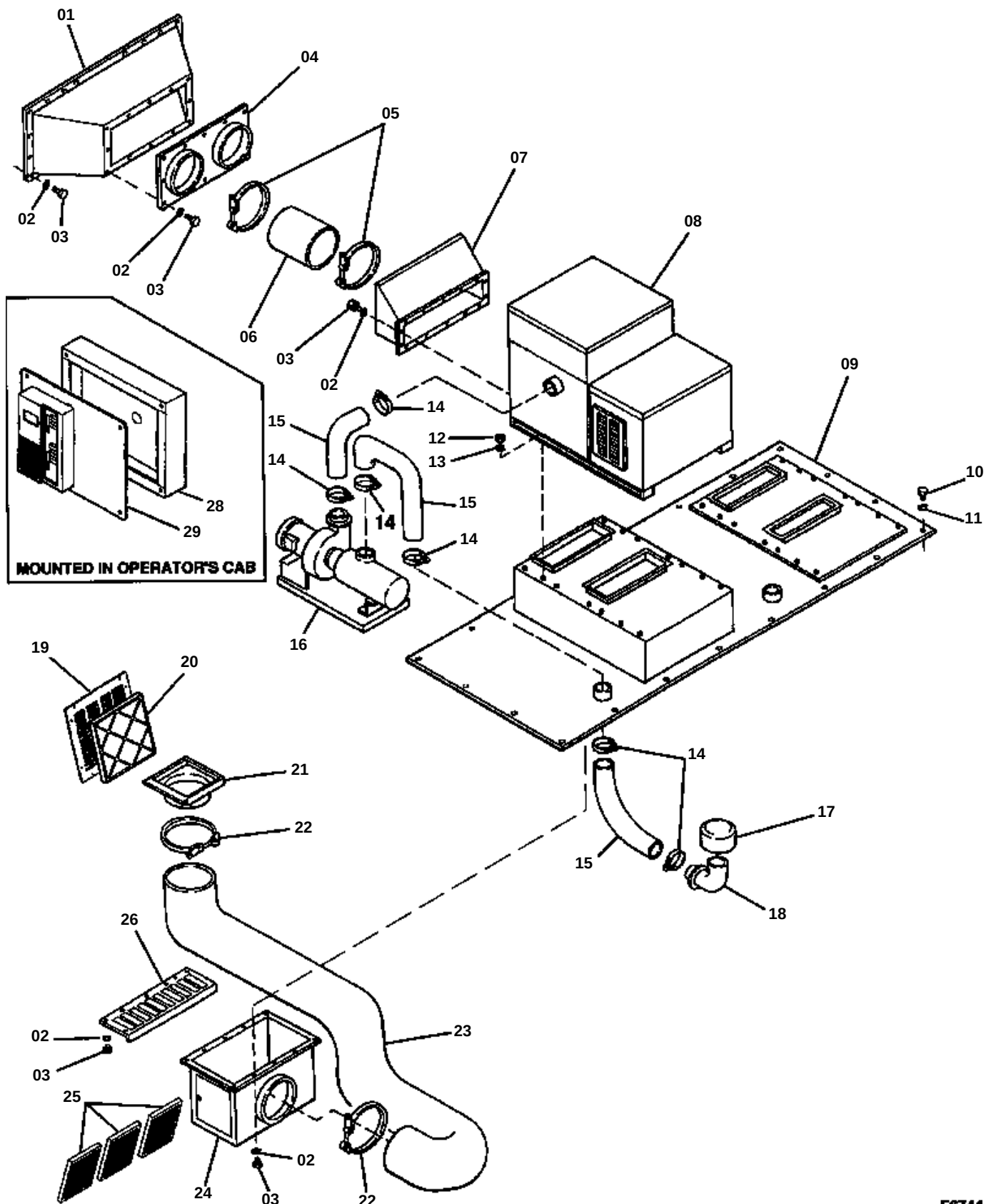
Machine
Serial Number: **4184**

HEATER

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INSTALLATION, AIR CONDITIONER



F6744

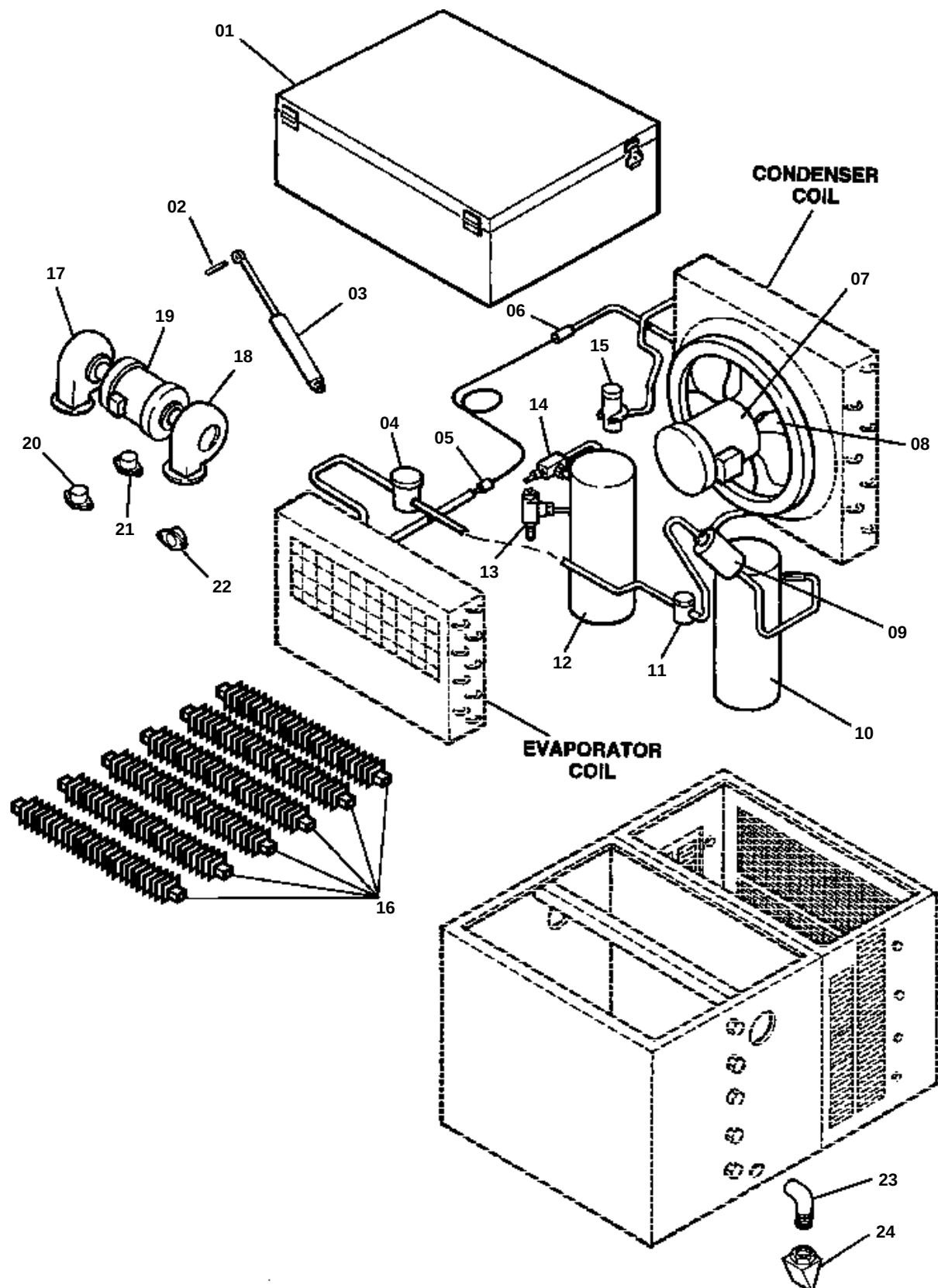


INSTALLATION, AIR CONDITIONER

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R37260F1	INSTALLATION, AIR CONDITIONER		
01	R37259D1	• DUCT, Supply Air	1	
02	3616V009	• WASHER, Lock 3/8 in	85	
03	20Q260D257	• SCREW, Hex Hd Cap 3/8-16UNC x 7/8 in lg	85	
04	R37258D1	• DUCT, Supply Air	1	
05	R37145D6	• CLAMP, "T" Bolt Band 10 in I.D. Hose	4	
06	R37145D5	• HOSE, Straight 10 x 12 in lg	AR	
07	R37088D1	• DUCT, Supply Air	1	
08	R35715D1	• CONDITIONER, Air	2	2-19
09	R37747D1	• COVER, Right Hand Room	1	
10	20Q260D257	• SCREW, Hex Hd Cap 3/4-10UNC x 1-1/2 in lg	20	
11	3616V015	• WASHER, Lock 3/4 in	20	
12	20Q270D32	• NUT, Hex 1/2-13UNC	24	
13	3616V011	• WASHER, Lock 1/2 in	24	
14	R37145D4	• CLAMP, "T" Bolt Band 4 in I.D. Hose	12	
15	R37145D2	• HOSE, Flex 4 x 90 in lg	AR	
16	R37093D1	• PRESSURIZER, Air	2	2-21
17		• • PRECLEANER, (Part of 16)	1	
18	R37749D1	• ELBOW, Fresh Air Duct	2	
19	R14037D1	• COVER, Return Air	1	
20	46Z476	• FILTER, Air	2	
21	R37257D1	• DUCT, Return Air	1	
22	R37145D3	• CLAMP, "T" Bolt Band 14 in I.D. Hose	2	
23	R37145D1	• HOSE, Flex 14 x 120 in lg	AR	
24	R37087D1	• DUCT, Return Air	2	
25	R37145D7	• FILTER, Air	6	
26	R37143D1	• PLATE, Supply Air	1	
27		NOT USED		
28	R37748D1	• BOX, Control, A/C	2	
29	R38406D1	• CONTROL, Air Conditioner	2	
	P7H Spec 3302	• NEOPRENE STRIP W/Adhesive Back (Not Shown)	AR	



CONDITIONER, AIR



F6746



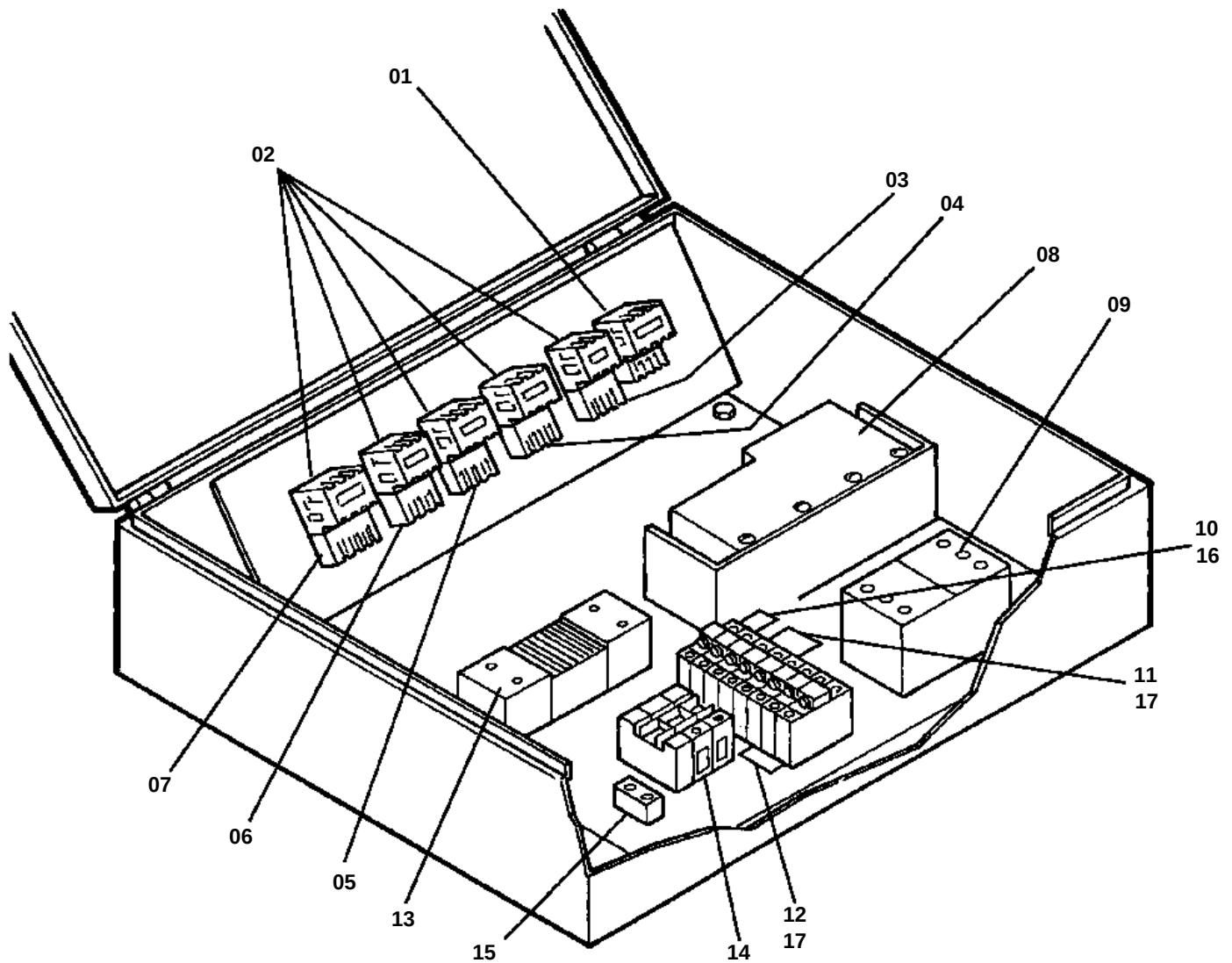
Machine
Serial Number: **4184**

CONDITIONER, AIR

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R35715D1	CONDITIONER, AIR		
01	1079Z7621	· CABINET, Electrical Control	1	2-20
02	1019Z2533	· PIN, Clevis	1	
03	1038Z701	· CYLINDER, Support	1	
	1016Z1400	· BALL, Mounting	1	
04	1036Z2246	· VALVE, Thermostatic Expansion	1	
05	1079Z7628	· SWITCH, Low Pressure Safety	1	
06	1079Z7629	· SWITCH, High Pressure Safety	1	
07	1088Z629	· MOTOR, Condenser Fan	1	
08	1049Z479	· BLADE, Fan	1	
09	1046Z1029	· FILTER/DRIER	1	
10	1027Z572	· RECEIVER, Refrigerant	1	
11	1089Z434	· INDICATOR, Moisture (Sight Glass)	1	
12	1050Z286	· COMPRESSOR	1	
13	NSS	· VALVE, Suction	1	
14	NSS	· VALVE, Discharge	1	
15	1036Z2244	· VALVE, Low Load Idle	1	
16	1080Z2096	· ELEMENT, Heater 2 KW	6	
17	1049Z482	· BLOWER, Air Handler CCW	1	
18	1049Z483	· BLOWER, Air Handler CW	1	
19	1088Z630	· MOTOR, Air Handler	1	
20	1079Z7609	· KLIXON, 130 Deg F	1	
21	1079Z7611	· KLIXON, 160 Deg F Auto Reset	1	
22	1079Z7610	· KLIXON, 140 Deg F Auto Reset	1	
23	1044Z1651	· ELBOW, 90 Deg	2	
24	1036Z2247	· VALVE, Drain Trap Vac	2	
--	1079Z7606	CABLE, Main Power (Not Shown)	1	
	1089Z428	PROBE, MPS Temperature (Not Shown)	1	



CABINET, ELECTRICAL CONTROL



F6747

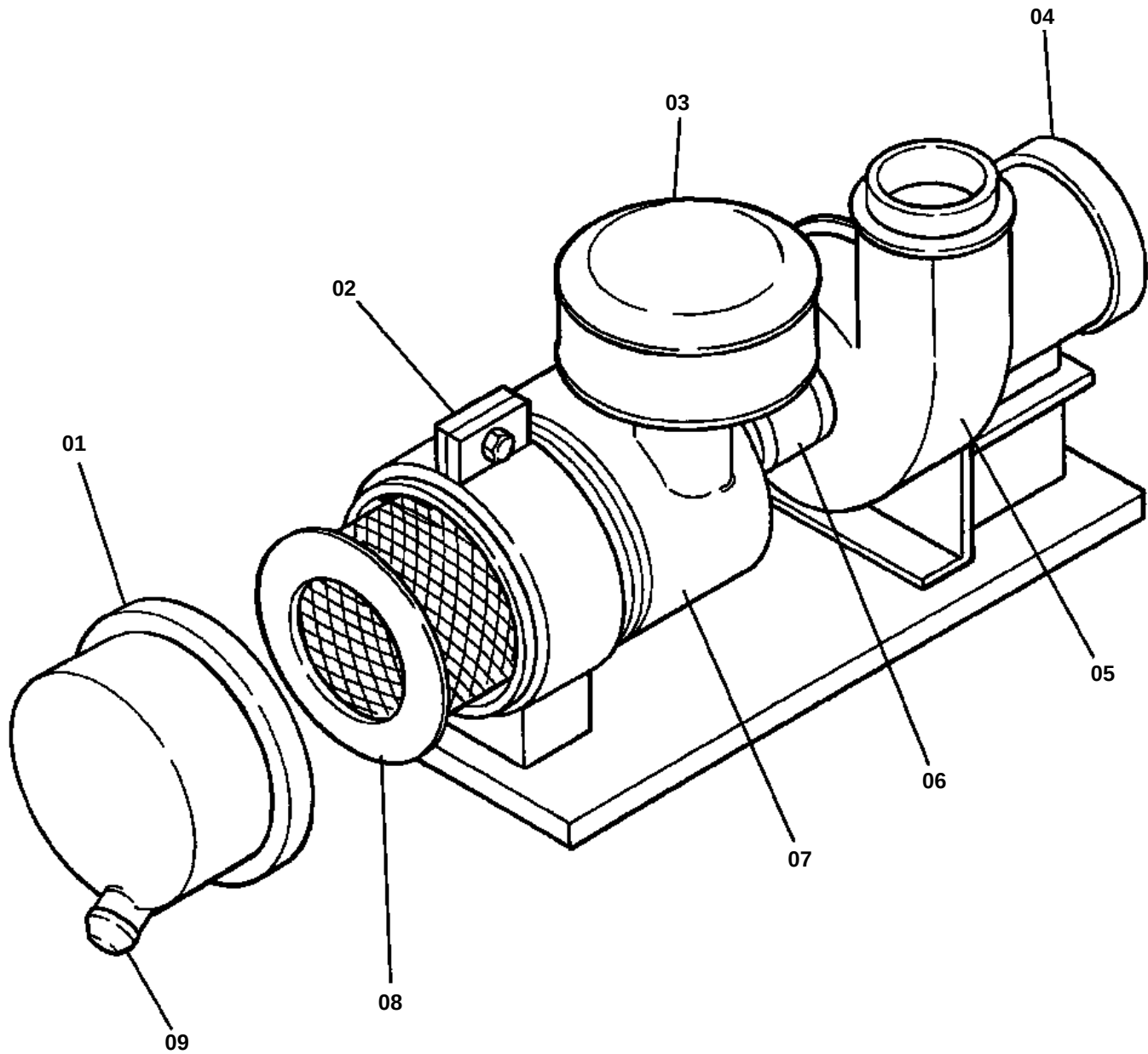


Machine Serial Number: **4184**

REF	PART NO.	DESCRIPTION	QTY
	1079Z7621	CABINET, ELECTRICAL CONTROL	
01	1079Z7608	· CONTACTOR, Heater	1
02	1079Z7607	· CONTACTOR, Air Handler/Condenser/Pressurizer	5
--	1079Z7617	· INTERLOCK, Electrical - Fan Speed	1
03	1079Z7613	· OVERLOAD, Compressor Motor	1
04	1079Z7614	· OVERLOAD, Condenser Motor	1
05	1079Z7612	· OVERLOAD, Pressurizer Motor	1
06	1079Z7615	· OVERLOAD, Air Handler Fan - High Speed	1
07	1079Z7616	· OVERLOAD, Air Handler Fan - Low Speed	1
08	1079Z7624	· MODULE, MPS Logic (Fahrenheit)	1
09	1089Z429	· REGULATOR, Heat	1
10	1079Z7595	· FUSE, 15 Amp - Transformer	2
11	1079Z7594	· FUSE, 20 Amp - Heaters	3
12	1079Z7593	· FUSE, 15 Amp - Motors	3
13	1075Z1941	· TRANSFORMER, Control (Set tap for 460/3/60)	1
14		· BLOCK, Terminal - 3 Pole Splitter	1
15	1079Z7599	· LUG, Ground	1
16	1079Z7619	· BLOCK, Fuse 2-Gang	1
17	1079Z7618	· BLOCK, Fuse 3-Gang	2



PRESSURIZER, AIR



F6748



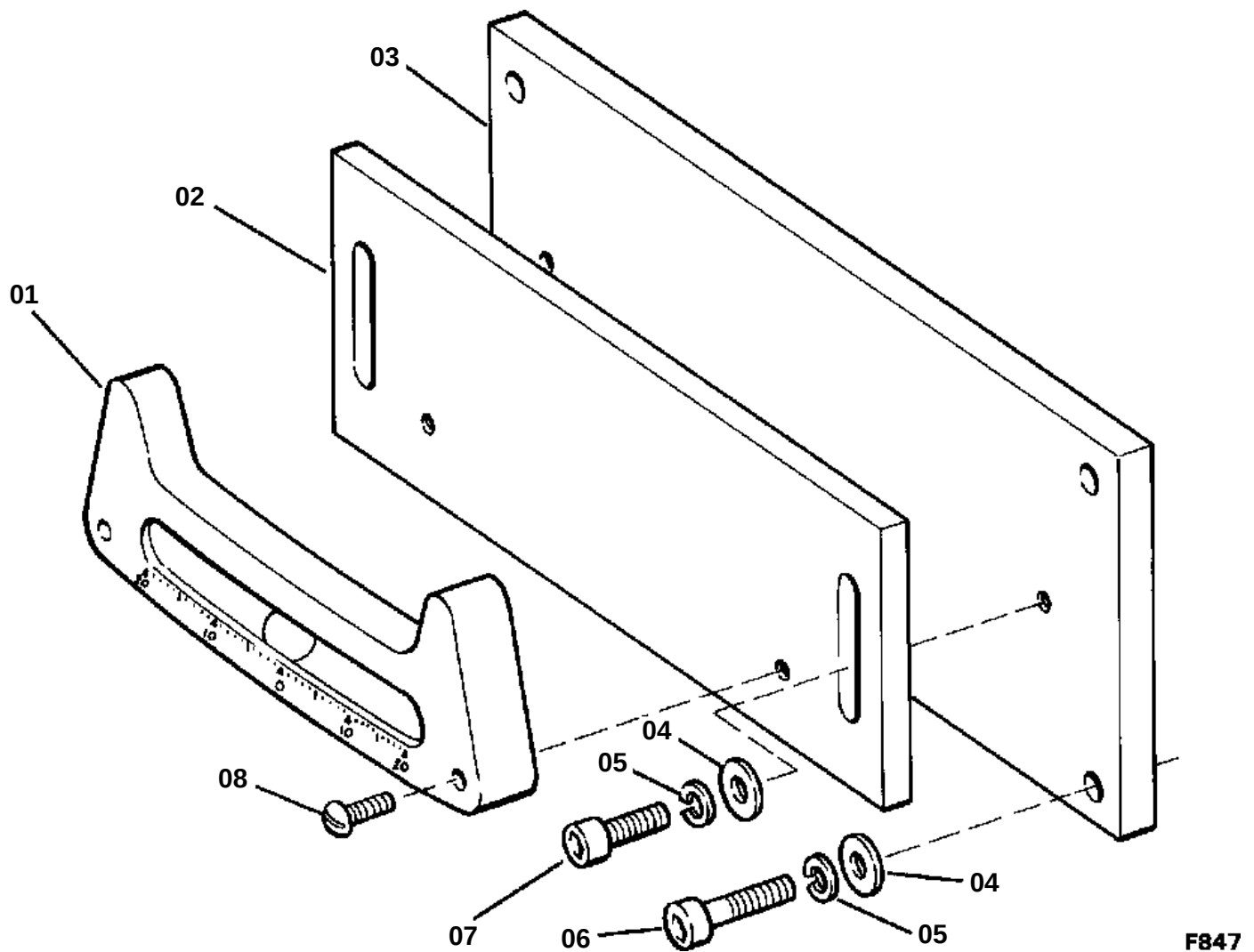
Machine
Serial Number: **4184**

PRESSURIZER, AIR

REF	PART NO.	DESCRIPTION	QTY
	R37093D1	PRESSURIZER, AIR	
01	1014Z4545	• END CAP, Filter Housing	1
02	1032Z1523	• CLAMP, Filter Housing	1
03	1046Z1022	• PRE-CLEANER	1
04	1088Z631	• MOTOR, Pressurizer	1
05	1049Z485	• BLOWER, Wheel	1
06	1018Z12904	• COUPLER, Rubber	1
07	1046Z1021	• HOUSING, Filter c/w Filter Element	1
08	1046Z1023	• • ELEMENT, Filter	1
09	1036Z2248	• VALVE, Vac	1



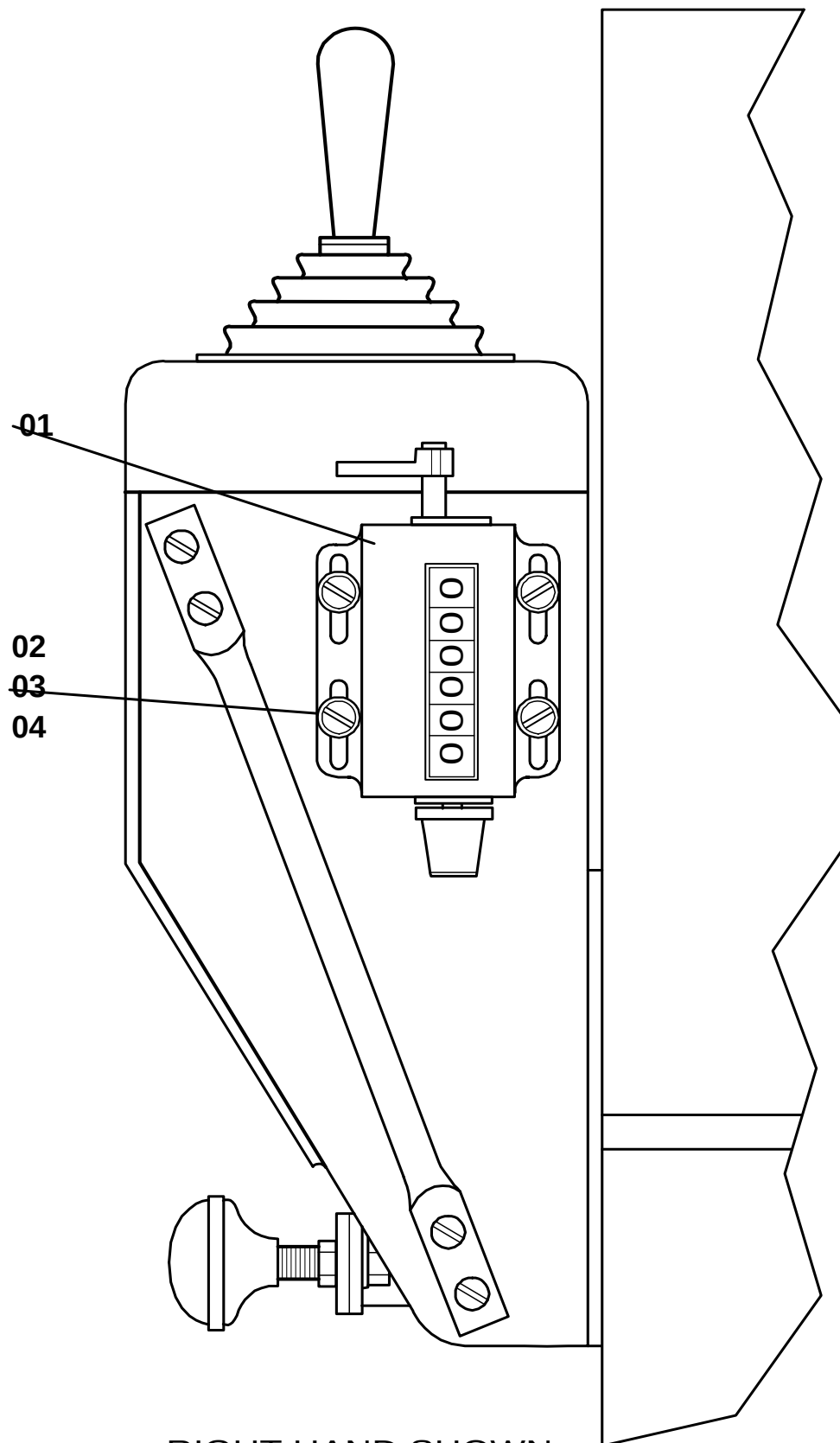
INCLINOMETER ASSEMBLY



INCLINOMETER ASSEMBLY

[illegible]

INSTALLATION, COUNTER



RIGHT HAND SHOWN

F5139

Machine
Serial Number: 4184

INSTALLATION, COUNTER

REF	PART NO.	DESCRIPTION	QTY
	R3441F1	INSTALLATION, COUNTER	
01	50Z93	• COUNTER, Manual	1
02	20Z40D14	• SCREW, Pan Hd Tapping #10-24UNC x 1/2 in	4
03	3616V005	• WASHER, Lock #10	4
04	3631V004	• WASHER, Plain #10	4

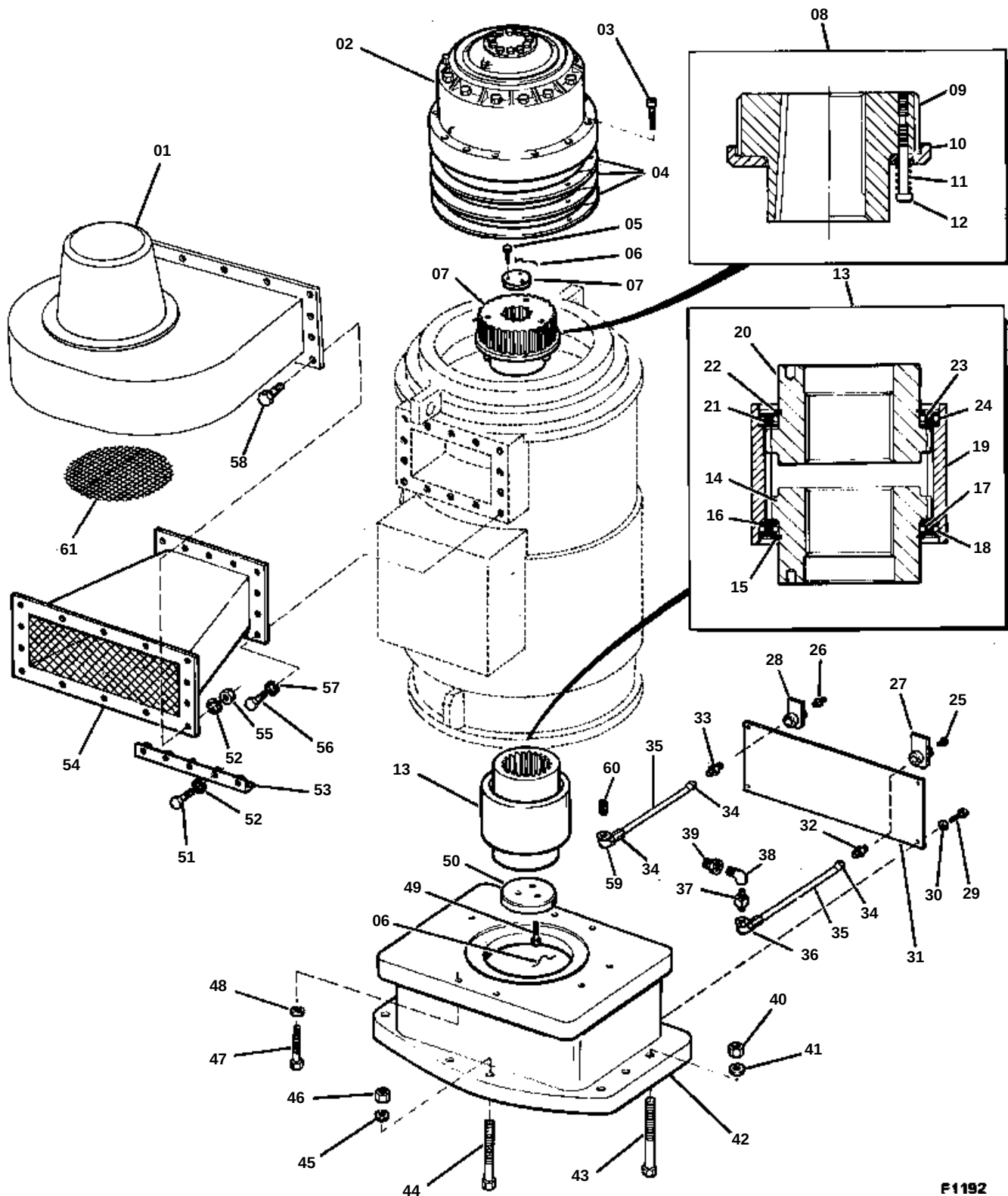


Group 3 - Swing System

Description	Page
MOUNTING, SWING MOTOR	3-1
TRANSMISSION, SWING	3-3
SHAFT ASSEMBLY, SWING	3-7
CIRCLE ASSEMBLY, ROLLER	3-8
COLLECTOR ASSEMBLY, HIGH-VOLTAGE, REVOLVING FRAME	3-9
COLLECTOR ASSEMBLY, HIGH-VOLTAGE, CARBODY	3-10
CENTER GUDGEON	3-11
COLLECTOR, LOW-VOLTAGE	3-12
TRACK ASSEMBLY, ROLLER	3-17
SWIVEL, GREASE AND AIR	3-18



MOUNTING, SWING MOTOR



F1192



MOUNTING, SWING MOTOR

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J5948F4	MOUNTING, SWING MOTOR		
01	R21295D1F2	· BLOWER, Swing Motor	1	3-2
(NOTE: Blower is not included with 100J5948F4)				
02	15R14D6	· BRAKE, Disc	1	
03	0630V102	· SCREW, Socket hd cap 5/8-11UNC x 2in lg	12	
04	20P1759D4	· SHIM, .005	2	
	20P1759D5	· SHIM, .010	2	
	20P1759D6	· SHIM, .015	14	
05	20P1858D329	· SCREW, Drilled Hex hd cap 1/2-13UNC x 1-3/4	3	
06	P&H SPEC 179	· WIRE, Tie #13Ga. 24in lg	1	
07	18T17537	· RETAINER	1	
08	915P275F3	· HUB, Swing Brake	1	
09	15N788D1	· · HUB, Disc Brake	1	
10	15Z549D7	· · Plate, Hub Backing	1	
11	15Z549D8	· · SPRING, Hub	3	
12	15Z549D6	· · BOLT, Hub Shoulder	3	
13	918N46F2	· COUPLING, Flexible	1	
14	18P8568	· · HUB, Coupling - Transmission	1	
15	18Z2682D4	· · · RING, Snap	1	
16	18Z2682D3	· · · RETAINER, O-Ring	1	
17	18Z2682D1	· · · O-RING, Inner	1	
18	18Z2682D2	· · · O-RING, Outer	1	
19	18Q161	· · SLEEVE, Coupling	1	
20	18P8571	· · HUB, Coupling - Motor	1	
21	18Z2682D3	· · · RETAINER, O-Ring	1	
22	18Z2682D4	· · · RING, Snap	1	
23	18Z2682D1	· · · O-RING, Inner	1	
24	18Z2682D2	· · · O-RING, Outer	1	
25	2446V503	· PLUG, Pipe 3/8in	1	
26	44Z1D14	· FITTING, Lube 1/4in	1	
27	16T9229	· PLATE, Connector	1	
28	16T9198	· PLATE, Connector	1	
29	20Q260D255	· SCREW, Hex hd cap 3/8-16UNC x 5/8in lg	4	
30	3616V009	· WASHER, Lock 3/8in	4	
31	14P3235	· COVER	1	
32	44Z590D33	· ADAPTER, JIC Male Pipe 3/8in	1	

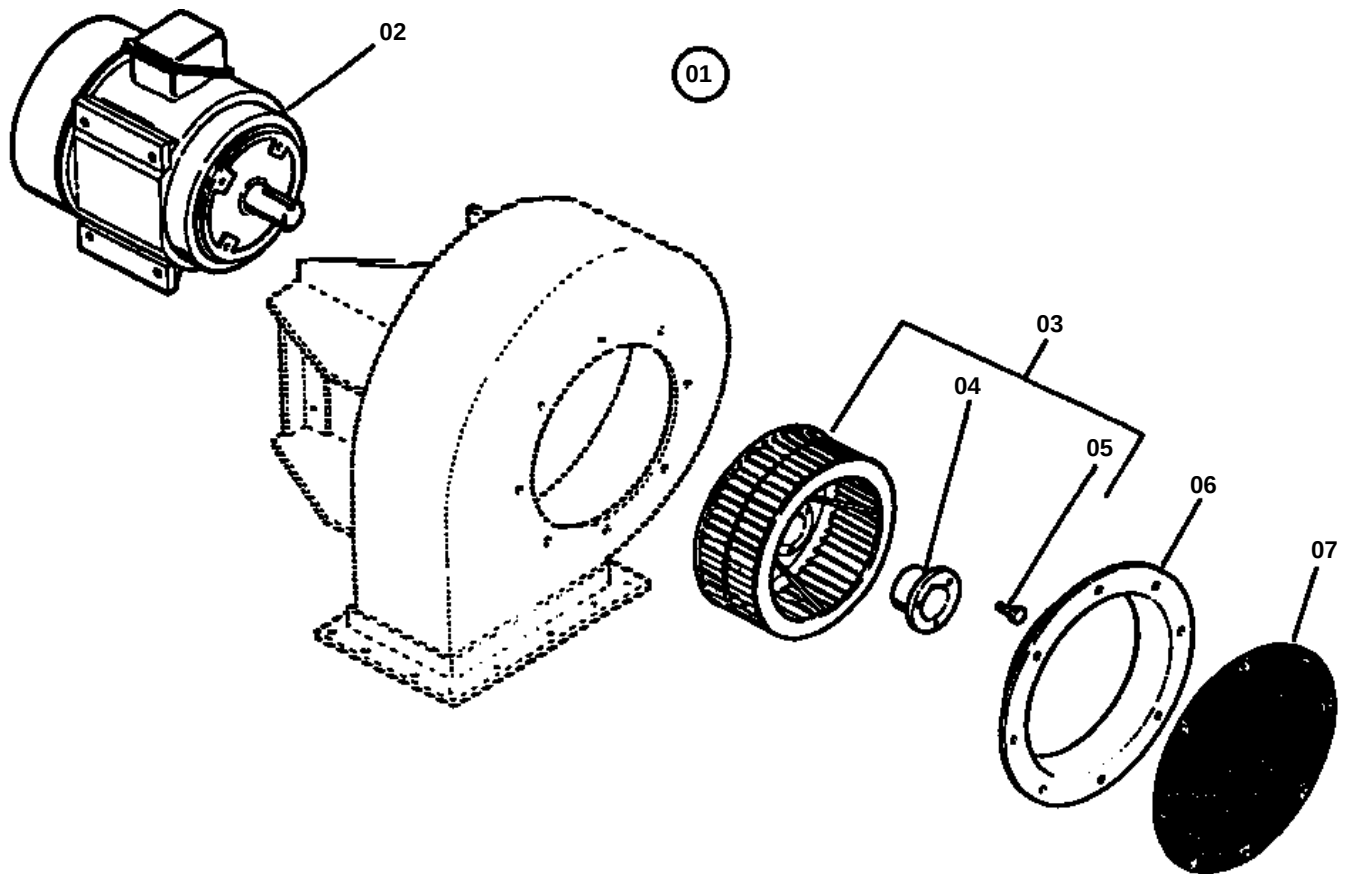


MOUNTING, SWING MOTOR

REF	PART NO.	DESCRIPTION	QTY	PAGE
33	44Z590D6	• ADAPTER, JIC Male Pipe 1/4in	1	
34	44Q5D7	• HOSE END, JIC Swivel	2	
35	44Z1486D3	• HOSE, Medium Pressure 1/4in I.D.	AR	
36	44Q16D2	• HOSE END, JIC Swivel 90-	2	
37	44Z590D5	• ADAPTER, JIC Male Pipe 1/8in	2	
38	44Z206D7	• ELBOW, Street 1/8in	1	
39	2402V002	• REDUCER, Pipe 3/8in - 1/8in	1	
40	20Q271D96	• NUT, Hex 1-1/2-6UNC	6	
41	18Z694D14	• WASHER, Hardened 1-1/4in	6	
42	16J1415	• BASE, Motor Adapter	1	
43	20Q259D687	• SCREW, Hex hd cap 1-1/2-6UNC x 5-1/2in lg	6	
44	20Q259D620	• SCREW, Hex hd cap 1-1/4-7UNC x 5in lg	1	
45	18Z694D12	• WASHER, Hardened 1-1/4in	1	
46	20Q271D80	• NUT, Hex 1-1/4-7UNC	1	
47	20Q260D541	• SCREW, Hex hd cap 1-8UNC x 3-1/2in lg	8	
48	18Z694D10	• WASHER, Hardened 1in	8	
49	20P1858D327	• SCREW, Drilled Hex hd cap 1/2-13UNC x 1-1/4	3	
50	18T9273D1	• RETAINER, Coupling half - Motor	1	
51	20Q260D258	• SCREW, Hex hd cap 3/8-16UNC x 1in lg	3	
52	3616V009	• WASHER, Lock 3/8in	17	
53	R25974D1	• ANGLE, Blower Duct Mounting	1	
54	R25949D1	• DUCT, Air - Blower	1	
55	20Q270D24	• NUT, Hex 3/8-16UNC	14	
56	20Q260D325	• SCREW, Hex hd cap 1/2-13UNC x 1in lg	7	
57	3616V011	• WASHER, Lock 1/2in	7	
58	20Q260D257	• SCREW, Hex hd cap 3/8-16UNC x 7/8in lg	14	
59	44Z574D3	• ELBOW, Female 1/8 in JIC	1	
60	2420V004	• NIPPLE, Pipe 1/8 in x 1-1/2	1	
61		• SCREEN, Intake (Part of Blower, see item 1)		
62	3647V015	• WASHER, Plain	3	



BLOWER



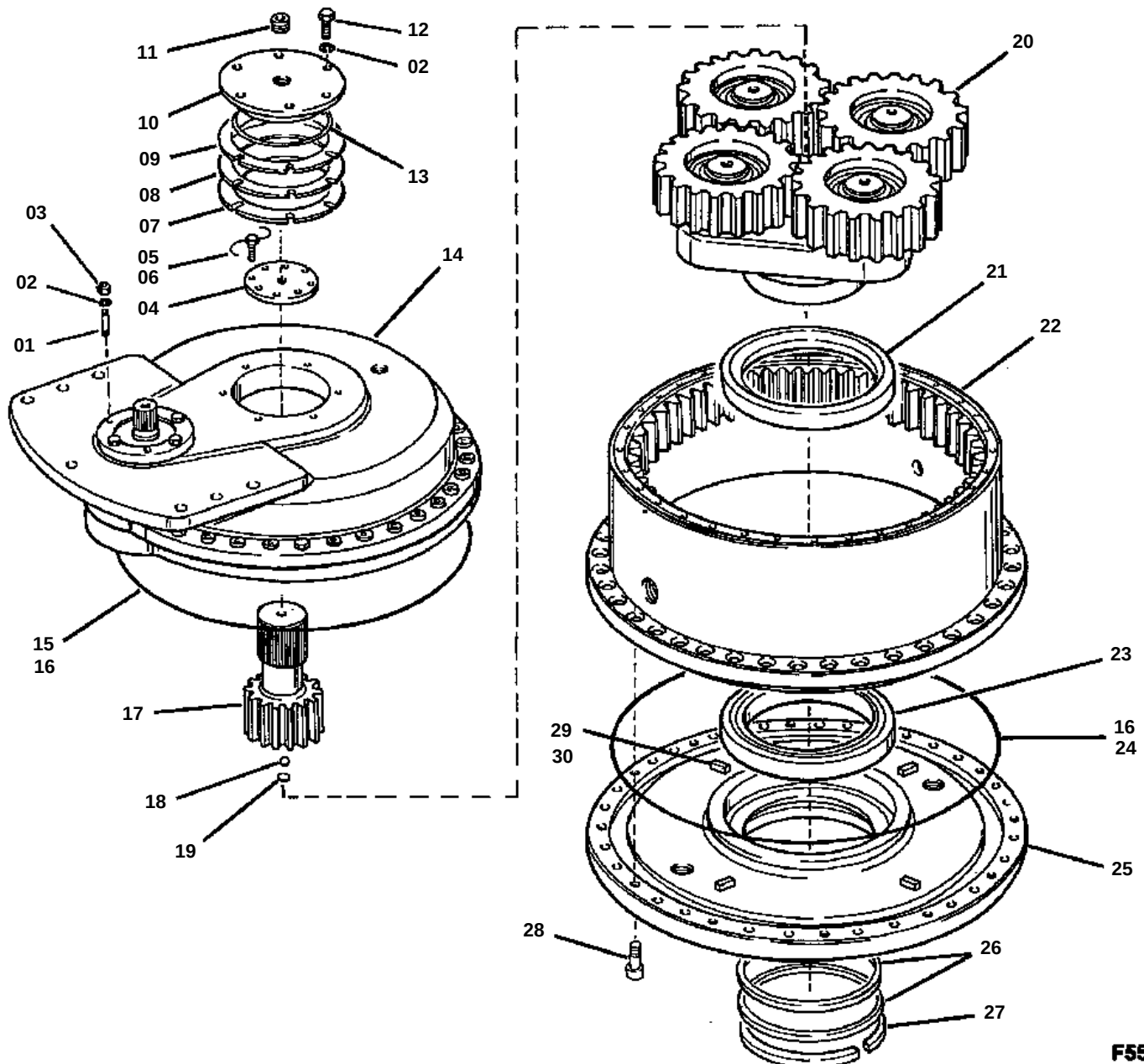
F5000 A

BLOWER

REF	PART NO.	DESCRIPTION	QTY
01	R21295D1F2	BLOWER	1
02	R12623D4	· MOTOR, Blower	1
03	R20984D3	· WHEEL, Blower	1
04	R21012D2	· · BUSHING, Split, 1-3/8 in bore	1
05	20Q260D226	· · · SCREW, Hex Hd Cap 5/16-18UNC x 1 in	3
06	R21004D3	· CONE, Inlet	1
07	1049Z452	· · SCREEN, Inlet	1
08	32Q1764D1	· SIGN, Caution (Not Shown)	1



TRANSMISSION, SWING



F5571

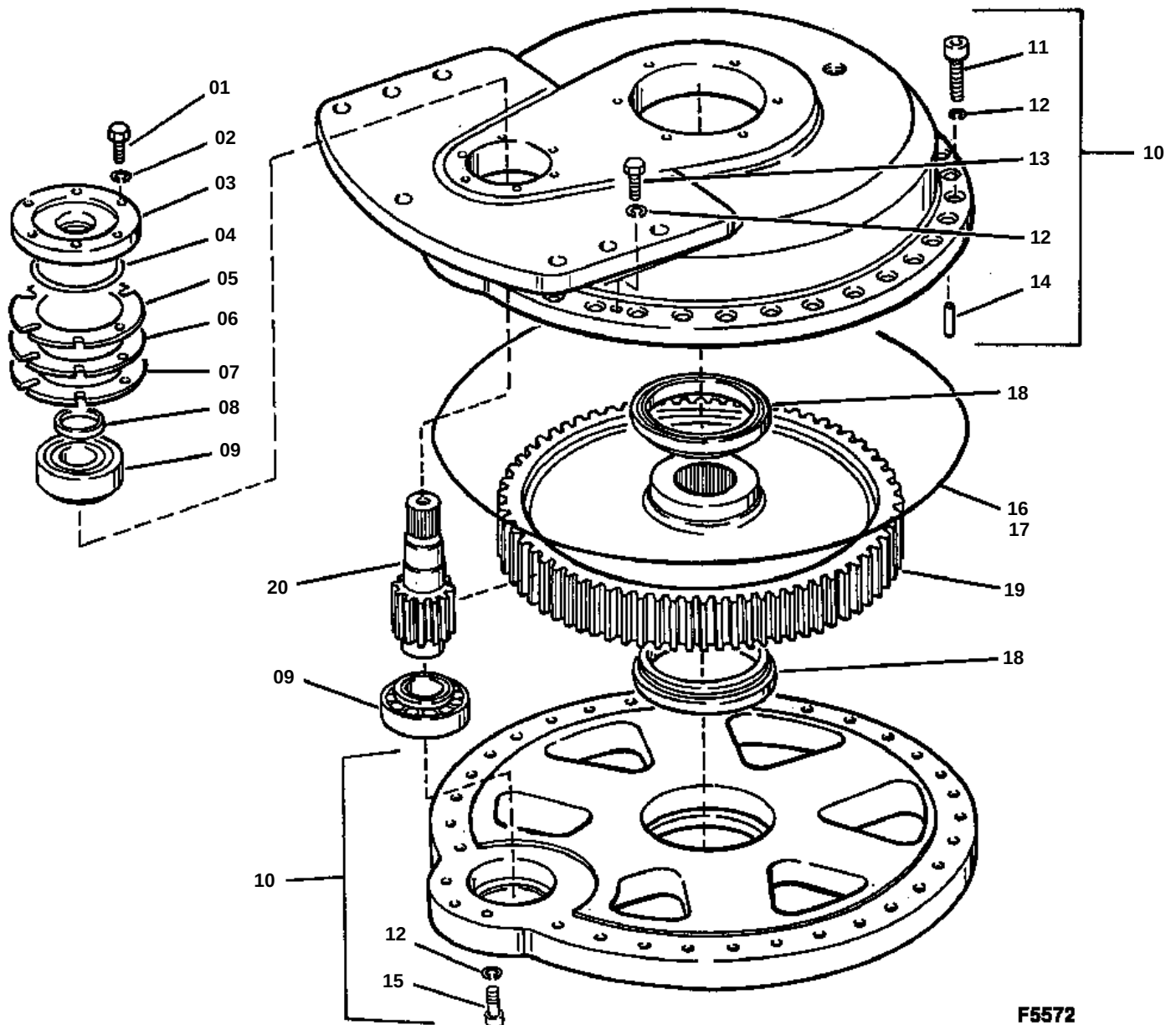


TRANSMISSION, SWING

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J5949F4	TRANSMISSION, SWING		
01	20T9921C1	• STUD, 3/4 x 15-1/2 in	2	
02	18Z1732D8	• WASHER, Conical Lock 3/4 in	8	
03	20Q270D48	• NUT, Hex 3/4-10UNC	2	
04	18T17605	• PLATE, Retainer	1	
05	20P1858D404	• SCREW, Drill Hd Cap 5/8-11UNC x 2 in	8	
06	017960059	• WIRE, Tie #12 GA	AR	
07	20Q365D4	• SHIM, .020	4	
08	20Q365D5	• SHIM, .0075	3	
09	20Q365D6	• SHIM, .005	2	
10	25P1260	• RETAINER, Bearing	1	
11	2421V007	• PLUG, Pipe 1-1/4 in	1	
12	20Q260D449	• SCREW, Hex Hd Cap 3/4-10UNC x 2-1/4 in	6	
13	45Z91D8	• O-RING	1	
14	901J59F2	• HOUSING, 1st Reduction	1	3-4
15	45Z606D159	• O-RING	1	
16	21Z516D2	• ADHESIVE (Not Shown)	AR	
17	1J339D2	• PINION, Sun	1	
18	25Z7D9	• BALL, Steel 1 in	1	
19	18T17885D1	• WASHER, Blank Thrust	1	
20	901J58F2	• CARRIER, 2nd Reduction	1	3-5
21	25N783D1	• SPACER	1	
22	1J262	• RING GEAR, 2nd Reduction	1	
23	25Q86D1	• BEARING, Roller	1	
24	45Z409D14	• O-RING	1	
25	25J277	• BASEPLATE, Transmission	1	
26	18Z3386D2	• SEAL, Oil	2	
27	18Z3638D3	• RING, Retaining	1	
28	0630V154	• SCREW, Hex Soc Hd Cap 1-8UNRC x 3 in	4	
29	R38568D1	• MAGNET	4	
30	21Z516D11	• ADHESIVE	AR	
	918P32F2	• FILLER/DRAIN, Swing Transmission	1	3-6
	R47844F1	• KIT, Vibration Sensor	1	
	21Z516D10	• ADHESIVE (Not Shown)	AR	
	21Z516D8	• COMPOUND, Retaining (Not Shown)	AR	
	21Z587D13	• SOLVENT, Cleaning (Not Shown)	AR	



HOUSING, FIRST-REDUCTION



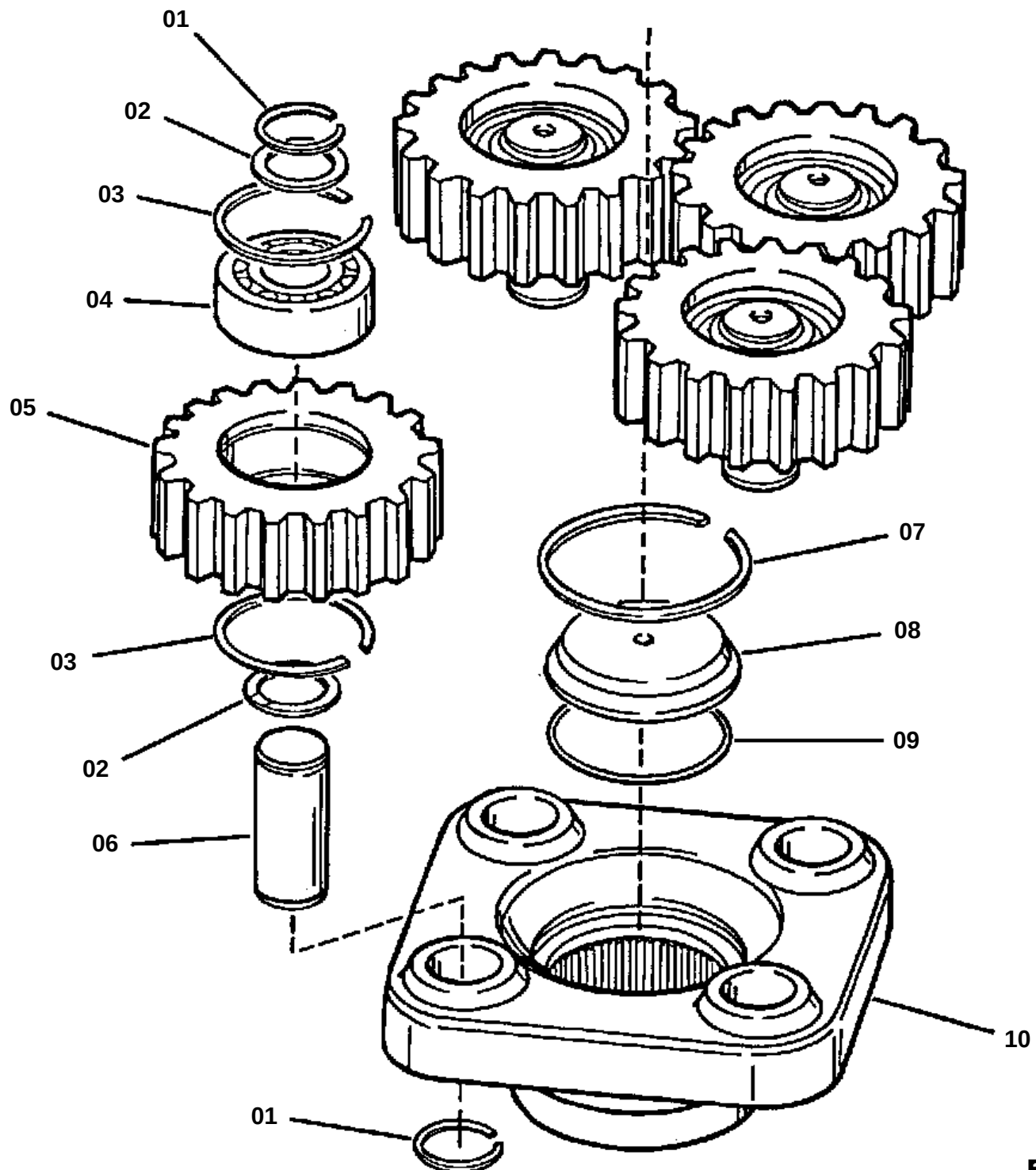
F5572

HOUSING, FIRST-REDUCTION

REF	PART NO.	DESCRIPTION	QTY
	901J59F2	HOUSING, FIRST-REDUCTION	
01	20Q260D451	· SCREW, Hex Hd Cap 3/4-10UNC x 2-3/4 in	4
02	18Z1732D8	· WASHER, Conical Lock 3/4 in	4
03	25P1259D2	· RETAINER	1
04	45Z91D310	· O-RING	1
05	20Q374D1	· SHIM, .020	3
06	20Q374D2	· SHIM, .0075	3
07	20Q374D3	· SHIM, .005	3
08	18F682D166	· SEAL	1
09	25Z259D33	· BEARING, Tapered Roller	2
10	914J362F1	· HOUSING	1
11	0630V130	· · SCREW, Hex Soc Hd Cap 3/4-10UNRC x 5 in	33
12	18Z1732D8	· · WASHER, Serrated 3/4 in	39
13	20Q260D450	· · SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	4
14	19Z138D134	· · PIN, Dowel	3
15	0630V127	· · SCREW, Hex Soc Hd Cap 3/4-10UNRC x 4 in	2
16	45Z606D159	· O-RING	1
17	21Z516D2	· ADHESIVE (Not Shown)	1
18	25Z259D291	· BEARING, Tapered Roller	2
19	1N1497C2	· GEAR, 1st Reduction, Swing	1
20	1N1568D1	· SHAFT, Pinion	1



CARRIER, SECOND-REDUCTION



F5573



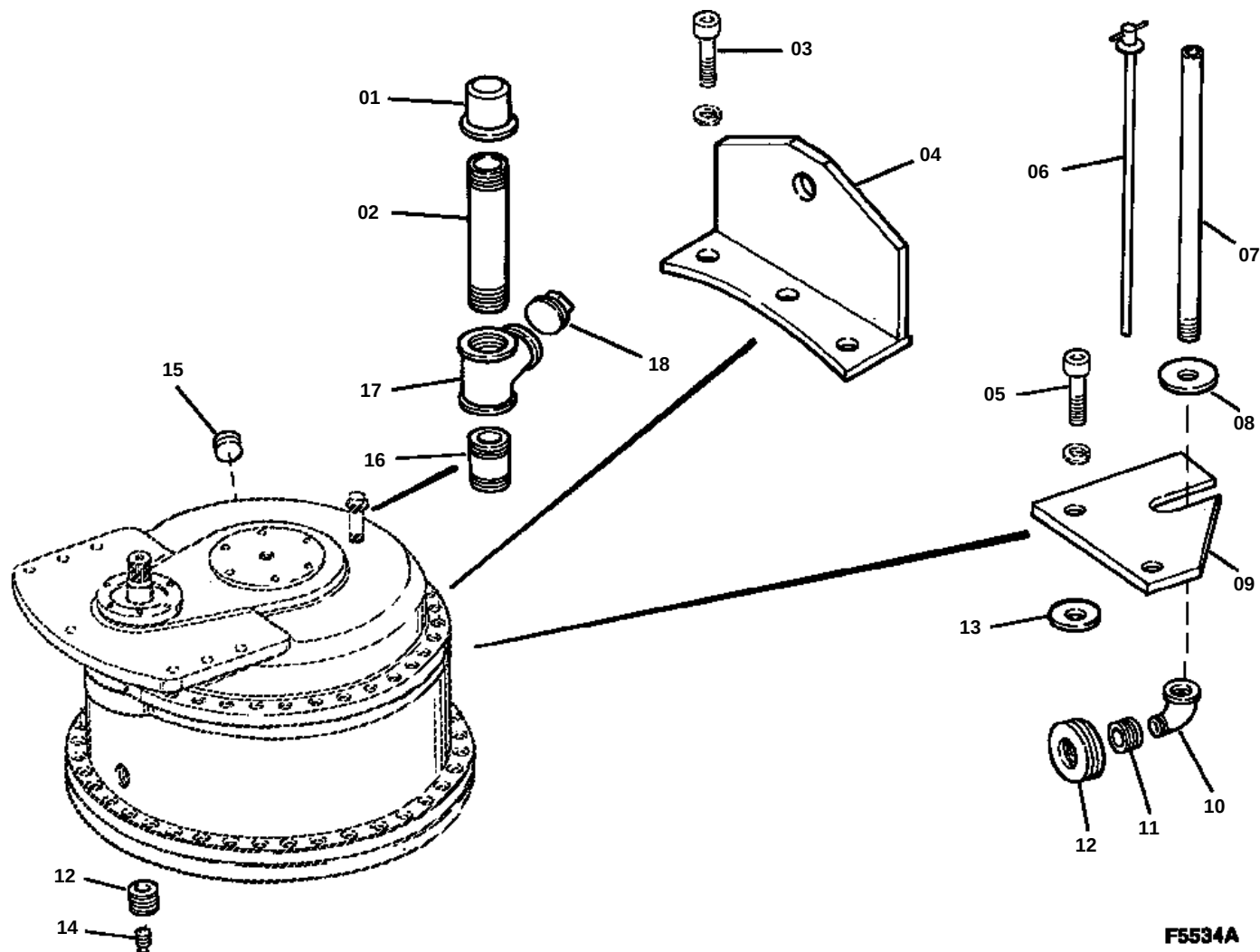
Machine
Serial Number: **4184**

CARRIER, SECOND-REDUCTION

REF	PART NO.	DESCRIPTION	QTY
	901J58F2	CARRIER, SECOND-REDUCTION	
01	18Z3107D17	· RING, Snap - External	8
02	18Z3508D1	· RING, Spiral Retaining	8
03	18Z3107D18	· RING, Snap - Internal	8
04	25Z539D16	· BEARING, Spherical Roller	4
05	R4418F1	· KIT - PINION, 2nd Reduction, Planetary (Set of 4)	1
06	19T6404	· PIN, 2nd Reduction, Planetary	4
07	18Z2082D175	· RING, Snap	1
08	18N2526D1	· PLATE, Retainer	1
09	45Z91D118	· O-RING	1
10	22J1696C1	· CARRIER	1



FILLER/DRAIN, SWING TRANSMISSION

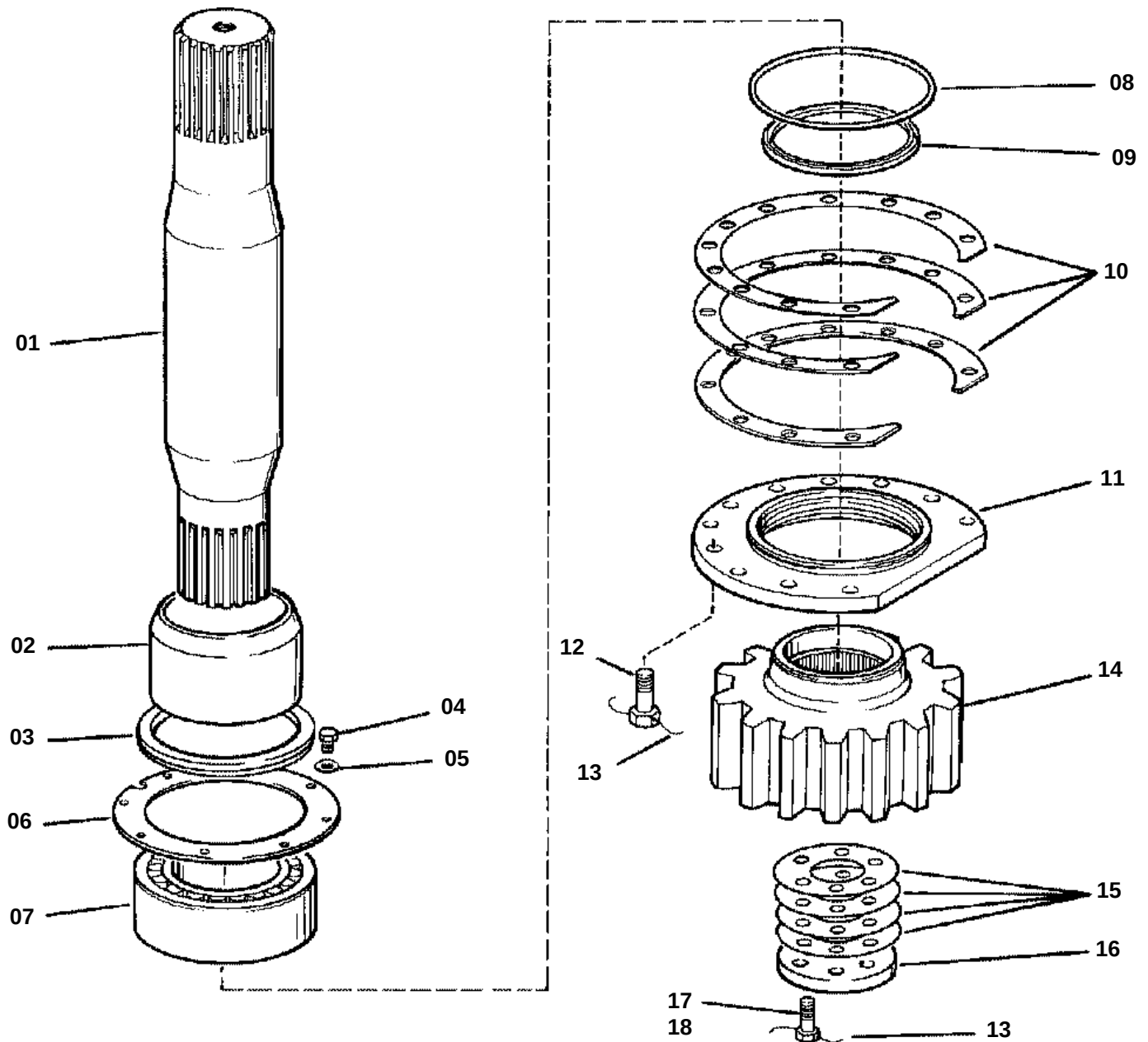


FILLER/DRAIN, SWING TRANSMISSION

REF	PART NO.	DESCRIPTION	QTY
	918P32F2	FILLER/DRAIN, SWING TRANSMISSION	
01	R48018D1	• FILTER, Breather	1
	R48018D2	• • ELEMENT, Filter Replacement	1
02	2420V195	• NIPPLE, Close 1-1/4 in	1
03	0630V131	• SCREW, Hex Soc Hd Cap 3/4-10UNRC x 6 in	3
04	16N3439	• BRACKET, Lifting	1
05	0630V540	• SCREW, Hex Soc Hd Cap 3/4-10UNRC x 5-1/2 in	2
06	14Z207D1	• DIPSTICK, Oil Level	1
07	18T16067D2	• PIPE, 1 in	1
08	3612V013	• WASHER, Plain 1-1/4 in	1
09	16P6872	• BRACKET, Dipstick	1
10	2416V021	• ELBOW, Street 1 in - 90-	1
11	2468V016	• BUSHING, Face 1-1/4 x 1 in	1
12	2466V036	• BUSHING, Face 2-1/2 - 1-1/4 in	2
13	18Z694D8	• WASHER, Hardened 3/4 in	4
14	44Z193D13	• PLUG, Magnetic Drain 1-1/4 in	1
15	2421V010	• PLUG, Pipe 2-1/2 in	2
16	2420V195	• NIPPLE, Close 1-1/4 in	1
17	2436V021	• TEE, Y-Branch 1-1/4 x 45 in	1
18	2424V007	• PLUG Pipe 1-1/4 in	1
19	2479V038	• TEE, Pipe 1-1/4 in x 1-1/4 in x 1/2 in (Not Shown)	1
20	2401V507	• BUSHING, 1/2 in x 1/8 in (Not Shown)	1
21	R42880D1	• INDICATOR, Filter (Not Shown)	1



SHAFT, SWING

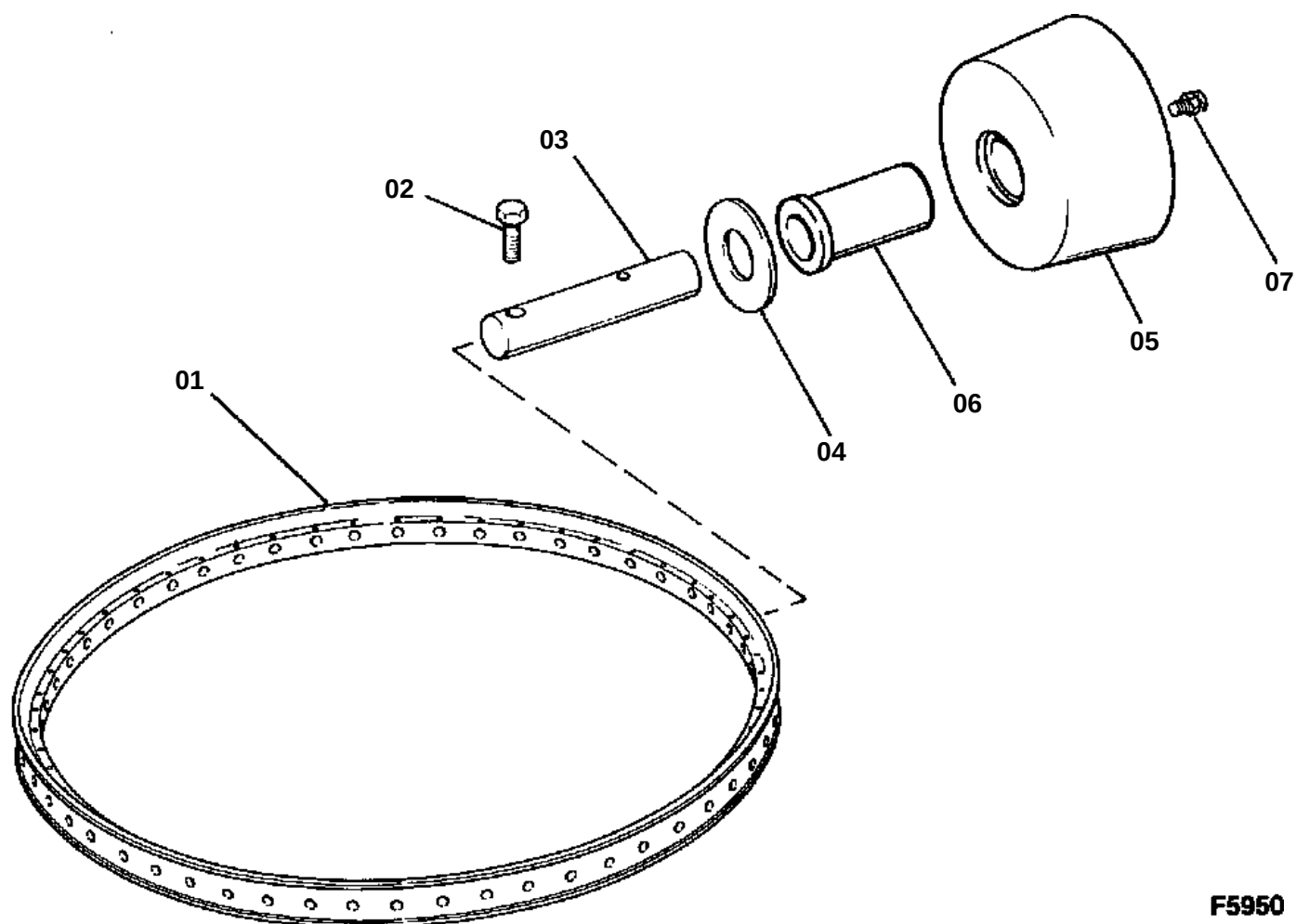


SHAFT, SWING

REF	PART NO.	DESCRIPTION	QTY
	100J6145F1	SHAFT, SWING	
01	10J101D2	• SHAFT, Swing	1
02	25N735D2	• SPACER, Bearing	1
03	18Z3344D20	• SEAL, V-Ring	1
04	20Q260D223	• SCREW, Hex Hd Cap 5/16-18UNC x 5/8 in	8
05	18Z1732D4	• WASHER, Conical Lock 5/16 in	8
06	14P3322	• SHIELD, Dirt	1
07	25Z1267D2	• BEARING, Spherical Roller	1
08	45Z91D161	• O-RING	1
09	18Z3386D5	• SEAL, Grease	1
10	20Q400D1	• SHIM (0.005)	1
	20Q400D2	• SHIM (0.010)	1
	20Q400D3	• SHIM (0.015)	3
11	18N2470	• PLATE, Retainer	1
12	20P1859D685	• SCREW, Drive Hd Cap 1-1/2-6UNC x 4-1/2 in	11
13	017960071	• WIRE, Tie #6 GA x 140 0"lg	AR
14	R24674D1	• PINION, Swing	1
15	20N426D20	• SHIM (0.005)	2
	20N426D18	• SHIM (0.020)	8
	20N426D17	• SHIM (0.1793)	1
	20N426D19	• SHIM (0.10)	1
16	18P8729D3	• PLATE, Retainer	1
17	20P1872D617	• SCREW, Drive Hd Cap 1-1/4-7UNC x 4 in GR8	6
18	18Z694D12	• WASHER, Hardened 1-1/4 in.	6
	21Z516D9	• COMPOUND, Retaining (Not Shown)	AR
	R20429D1	• LUBRICANT, Assembly Paste (Not Shown)	AR



CIRCLE ASSEMBLY, ROLLER



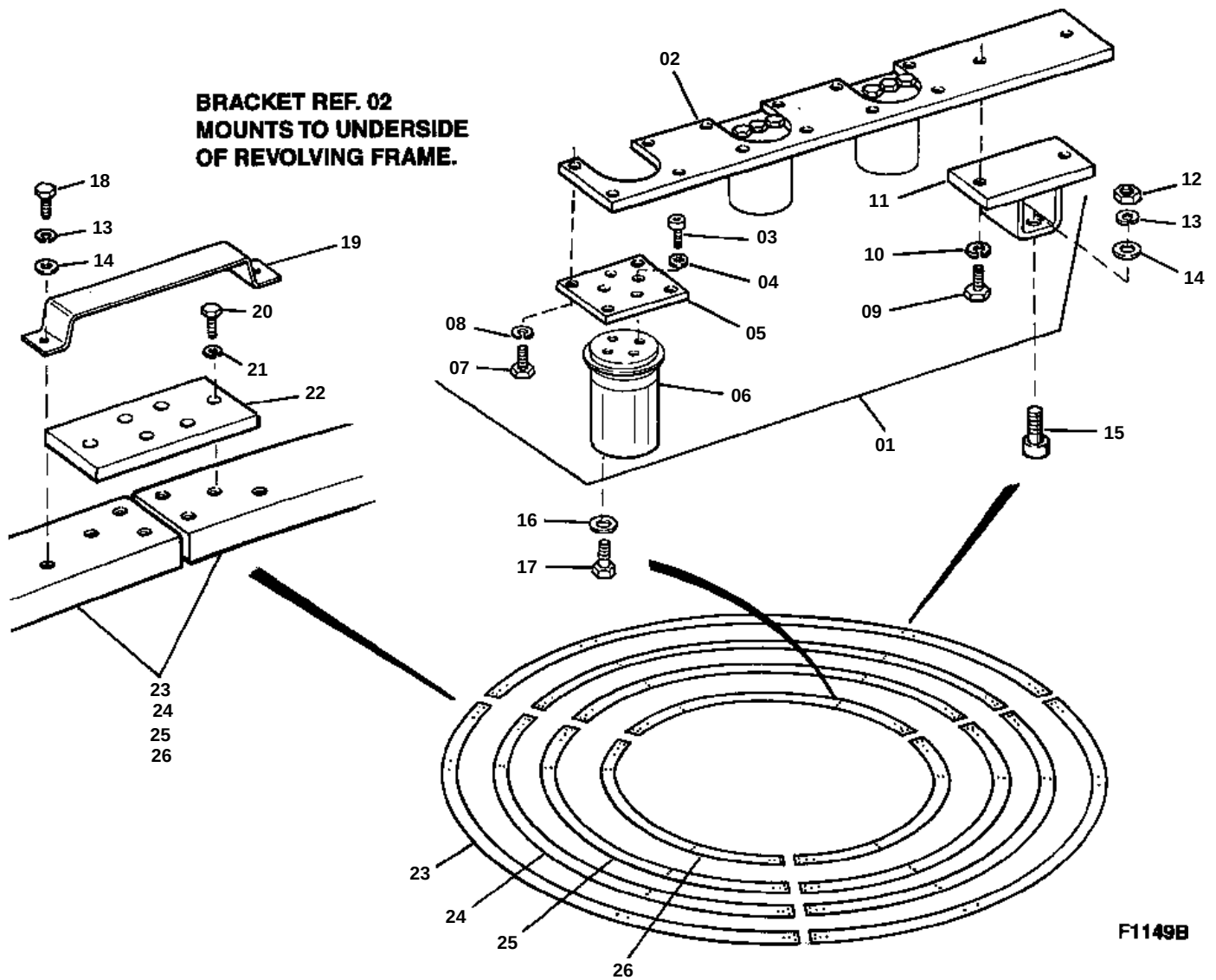
F5950

CIRCLE ASSEMBLY, ROLLER

REF	PART NO.	DESCRIPTION	QTY
	R17563F1	CIRCLE ASSEMBLY, ROLLER	
01	29N539	· RING, Carrier	1
02	20Q260D536	· SCREW, Hex hd cap 1-8UNC X 2-1/4in lg	54
03	19P768	· PIN, Roller	54
04	18Z3185D3	· WASHER, Thrust	54
05	R31982D1	· ROLLER	54
06	5Z468D2	· · BUSHING, Roller	1
07	44Z1D6	· FITTING, Lube 1/4in	54



COLLECTOR, HIGH-VOLTAGE, REVOLVING FRAME



F1149B

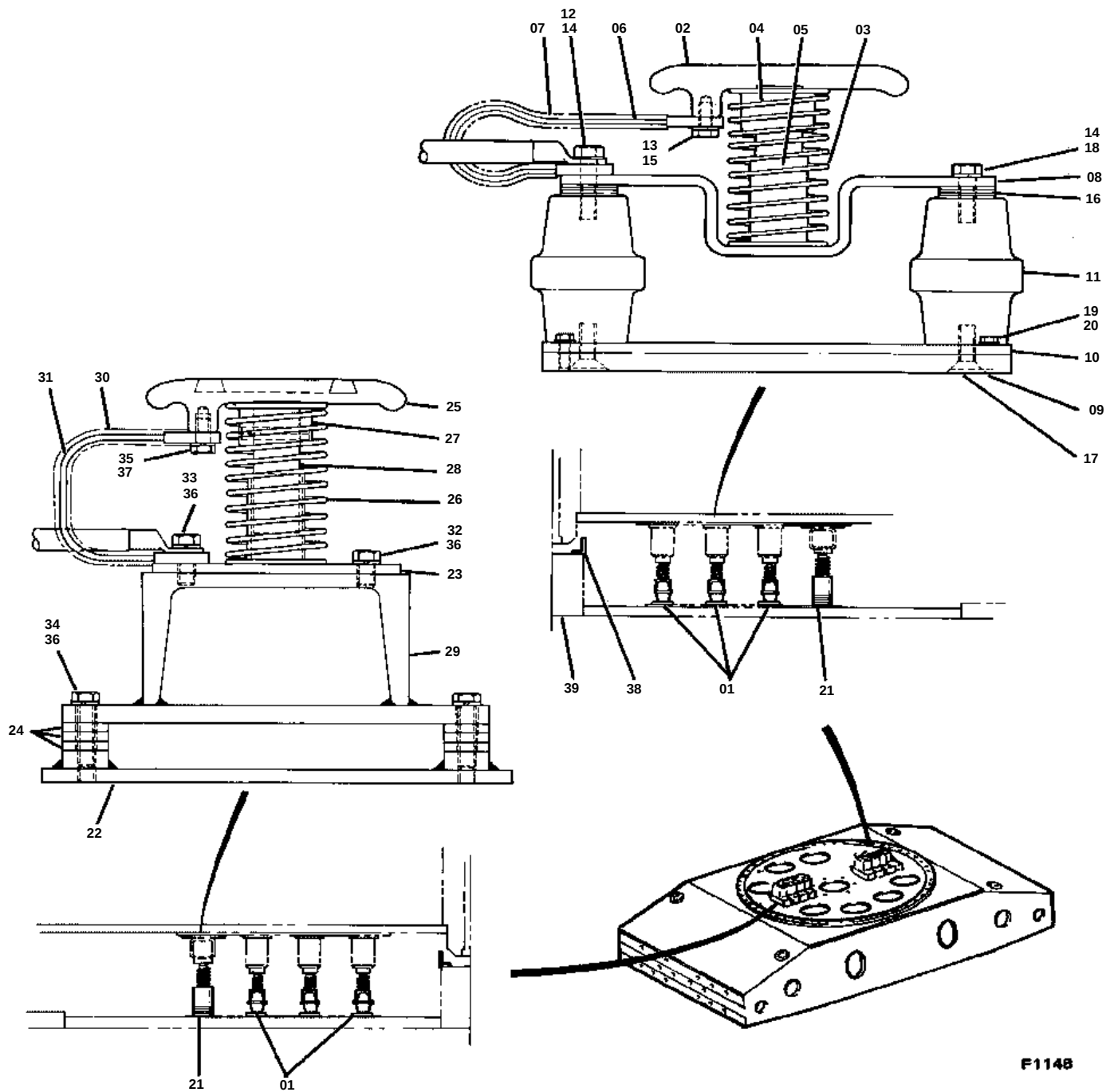


COLLECTOR, HIGH-VOLTAGE, REVOLVING FRAME

REF	PART NO.	DESCRIPTION	QTY
	100J5142F2	COLLECTOR, HIGH-VOLTAGE, REVOLVING FRAME	
01	979N89F1	· INSULATOR ASSEMBLY	6
02	16P4981	· · BRACKET, Insulator	1
03	20Z1265D22	· · SCREW, Low hd soc cap 3/8-16UNC X 3/4in	12
04	18Z733D11	· · WASHER, Lock 3/8in	12
05	16T7162	· · BRACKET, Insulator Mounting	3
06	78Z20	· · INSULATOR	3
07	0626V039	· · SCREW, Hex hd cap 3/8-16UNC X 3/4in	12
08	3615V009	· · WASHER, Lock 3/8in	12
09	0626V077	· · SCREW, Hex hd cap 1/2-13UNC X 1in	2
10	3615V011	· · WASHER, Lock 1/2in	2
11	16P3269	· · BRACKET, Mounting	1
12	20Q270D24	· NUT, Hex 3/8-16UNC	12
13	3616V009	· WASHER, Lock 3/8in	36
14	3631V007	· WASHER, Flat 3/8in	36
15	20Z1265D25	· SCREW, Low hd soc cap 3/8-16UNC X 1-1/2in	12
16	18Z733D11	· WASHER, Lock, Internal tooth 3/8in	36
17	20Z1265D23	· SCREW, Low hd soc cap 3/8-16UNC X 1in	36
18	20Q260D256	· SCREW, Hex hd cap 3/8-16UNC X 3/4in	24
19	79T244	· CONNECTOR	12
20	20Q260D328	· SCREW, Hex hd cap 1/2-13UNC X 1-1/2in	72
21	3616V011	· WASHER, Lock 1/2in	72
22	32T634	· BAR, Splice	12
23	77N3D2	· RING, Collector	1
24	77N4	· RING, Collector	1
25	77P25	· RING, Collector	1
26	77P24	· RING, Collector	1



COLLECTOR, HIGH-VOLTAGE, CARBODY



F1148



COLLECTOR, HIGH-VOLTAGE, CARBODY

REF	PART NO.	DESCRIPTION	QTY
	100J4472F5	COLLECTOR, HIGH-VOLTAGE, CARBODY	
01	978N8F3	· SHOE ASSEMBLY, Collector	6
02	78F285	· · SHOE, Collector	1
03	17Z505	· · SPRING	1
04	19Z8D168	· · PIN, Roll	1
05	16T4142	· · SUPPORT, Shoe	1
06	79T249	· · SHUNT, Flexible	1
07	080965106	· · SLEEVE, Fiberglass 1 in I.D. x 7in	AR
08	16P3478	· · BASE, Spring	1
09	16P3480	· · BRACKET, Insulator	1
10	16P3481	· · PAD, Insulating	1
11	78Z14	· · INSULATOR	2
12	20Q260D262	· · SCREW, Hex Cap, 3/8-16 UNC x 1-3/4in	1
13	20Q260D224	· · SCREW, Hex Cap, 5/16-18 UNC x 3/4in	1
14	3616V009	· · WASHER, Lock 3/8in	2
15	3616V008	· · WASHER, Lock 5/16in	1
16	3612V005	· · WASHER, Flat Hvy., 7/16in	12
17	0620V026	· · SCREW, Hex Soc Fl Hd Cap, 3/8-16UNC x 1-1/4	2
18	20Q260D260	· · SCREW, Hex Cap, 3/8-16 UNC x 1-1/4in	1
19	20Q260D192	· · SCREW, Hex Cap, 1/4-20 UNC x 3/4in	4
20	3616V007	· · WASHER, Lock 1/4in	4
21	978N8-2	· COLLECTOR ASSEMBLY, Ground	2
22	16P3249	· · BASE	1
23	16P3248	· · BASE, Spring	1
24	20T8587	· · SHIM	6
25	78F285	· · SHOE, Collector	1
26	17Z505	· · SPRING	1
27	19Z8D168	· · PIN, Roll	1
28	16T4142	· · SUPPORT, Shoe	1
29	16P3270D1	· · BRACKET	1
30	79T249	· · SHUNT, Flexible	1
31	080965106	· · SLEEVE, Fiberglass, 1 in I.D. x 7in	AR
32	20Q260D255	· · SCREW, Hex Cap, 3/8-16 UNC x 5/8in	3
33	20Q260D258	· · SCREW, Hex Cap, 3/8-16 UNC x 1in	1
34	20Q260D262	· · SCREW, Hex Cap, 3/8-16 UNC x 1-3/4in	4
35	20Q260D224	· · SCREW, Hex Cap, 5/16-18 UNC x 3/4in	1
36	3616V009	· · WASHER, Lock 3/8in	8



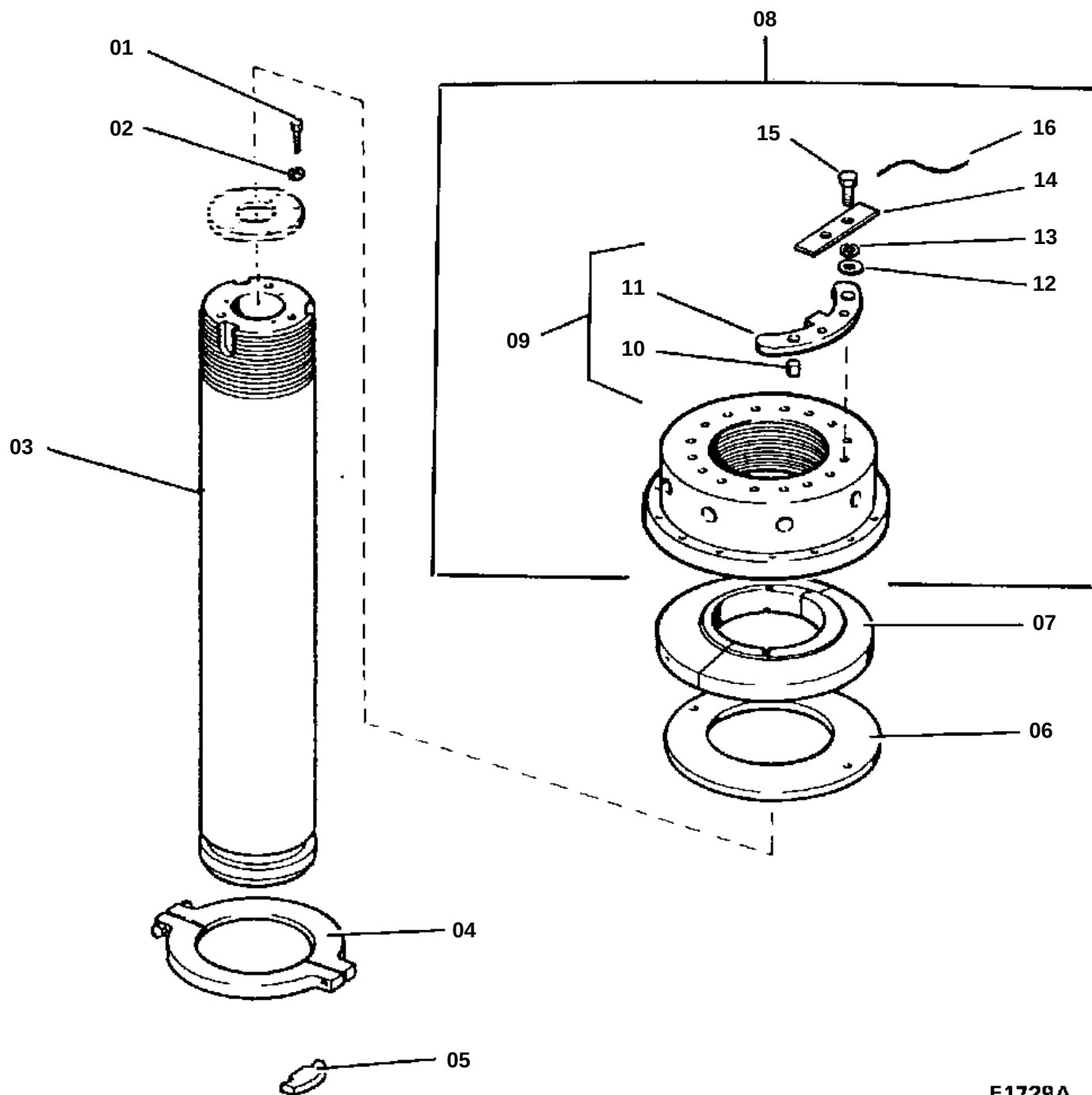
Machine
Serial Number: **4184**

COLLECTOR, HIGH-VOLTAGE, CARBODY

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CENTER GUDGEON



F1729A



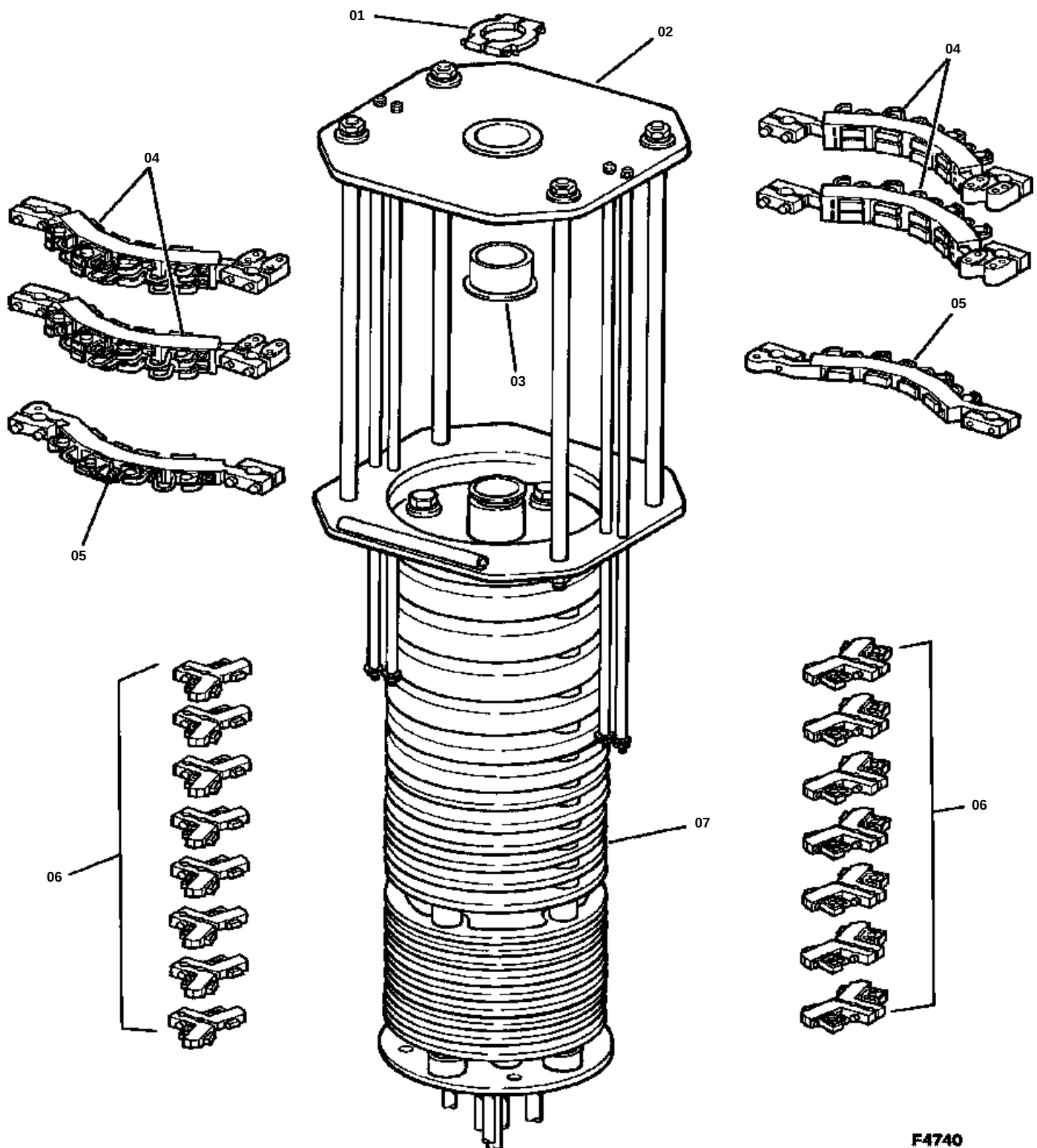
Machine Serial Number: **4184**

CENTER GUDGEON

REF	PART NO.	DESCRIPTION	QTY
	R17731F1	CENTER GUDGEON	
01	20Q260D405	· SCREW, Hex Hd Cap 3/8-11UNC x 2-1/4 in	6
02	3616V013	· WASHER, Lock 5/8 in	6
03	R17353F1	· GUDGEON, Center	1
04	18N2437F1	· COLLAR, Split	1
05	18P8502	· PLATE, Keeper	1
06	18T9322D2	· WASHER, Thrust	1
07	18P3206	· WASHER, Spherical	1
08	20N585F1	· NUT, Adjusting	1
09	18N2510F1	· · PLATE, Lock	1
10	19T6483	· · · PIN, Lock	2
11	18N2510	· · · PLATE	1
12	3632V011	· · WASHER, Wide Plain 1 in	2
13	3616V017	· · WASHER, Lock 1 in	2
14	18T17863	· · RETAINER	1
15	20P1858F546	· · SCREW, Dr Hd Cap 1-8UNC x 5 in lg	2
16	017960067	· · WIRE, Tie #8 GA x 20 in lg	AR



COLLECTOR, LOW-VOLTAGE



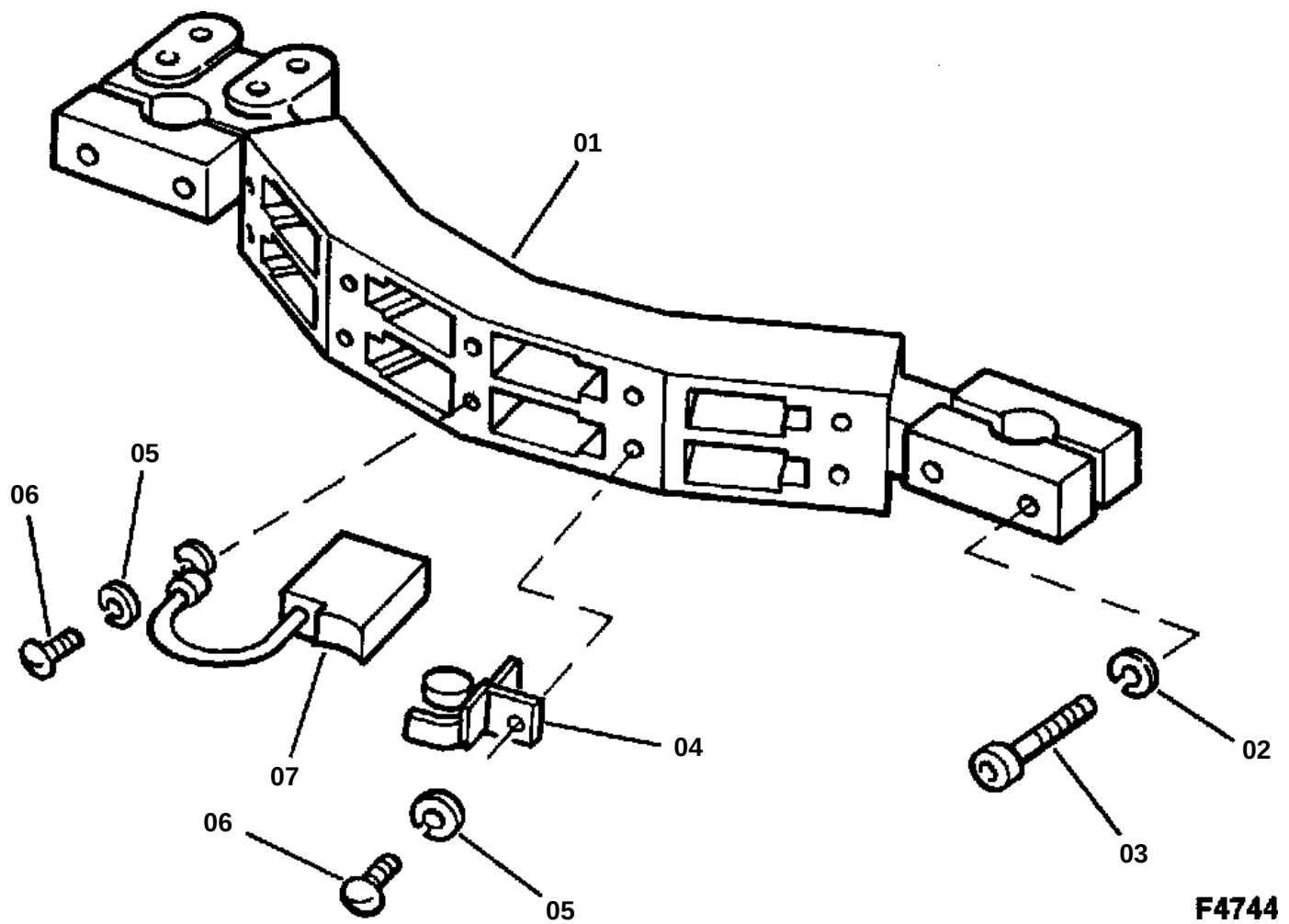
F4740

COLLECTOR, LOW-VOLTAGE

[illegible]



BRUSH HOLDER ASSEMBLY

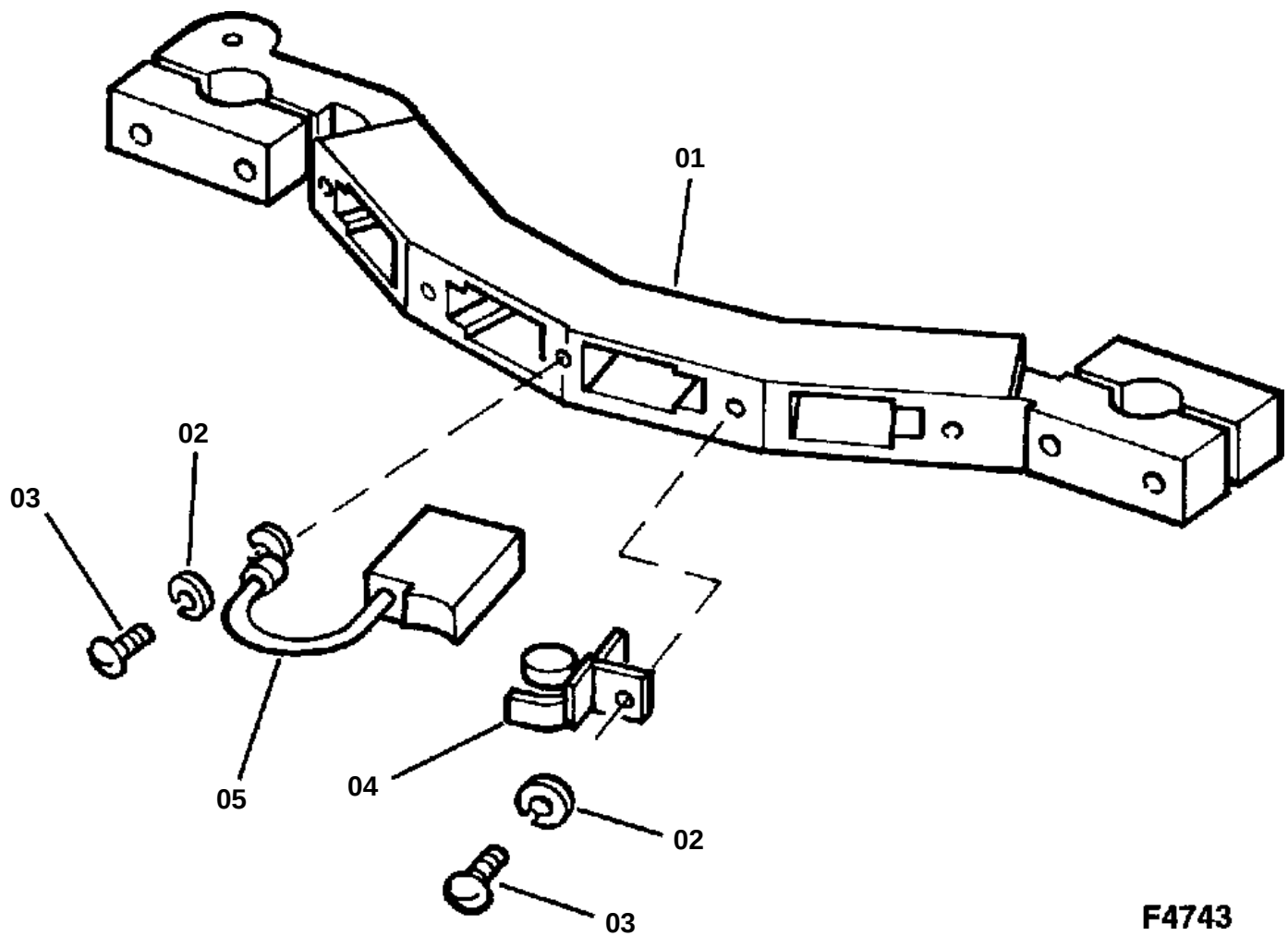


BRUSH HOLDER ASSEMBLY

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BRUSH HOLDER ASSEMBLY





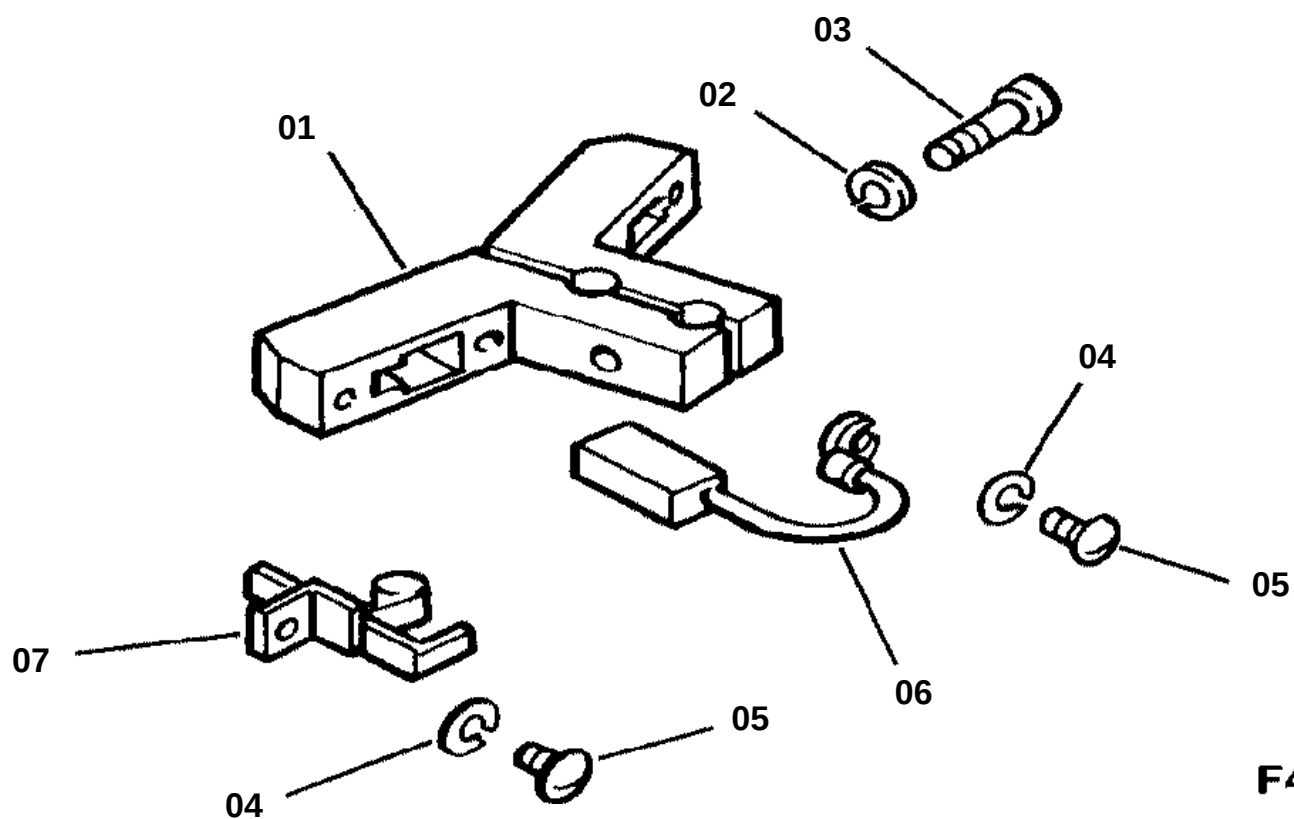
Machine
Serial Number: **4184**

BRUSH HOLDER ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	973N14F2	BRUSH HOLDER ASSEMBLY	
01	73J4F1	• HOLDER, Brush	1
02	3616V005	• WASHER, Lock #10 MPC	5
03	0660V075	• BOLTS, Rd Hd #10-24UNC x 1/2 in lg	5
04	17Q4	• SPRING, Brush	4
05	73Z24	• BRUSHES	4



BRUSH HOLDER ASSEMBLY



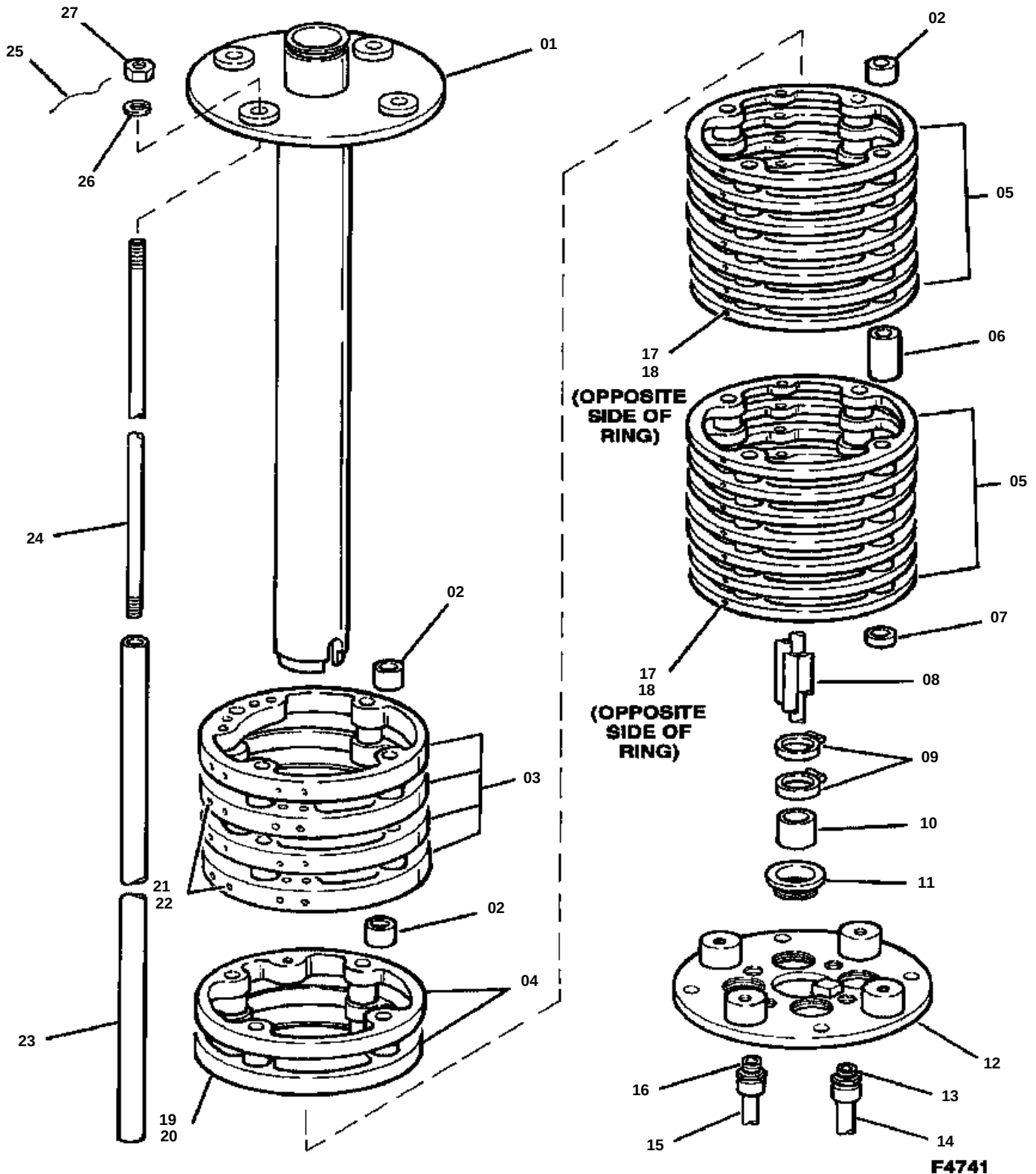
F4742

BRUSH HOLDER ASSEMBLY

[illegible]



COLLECTOR RING ASSEMBLY





COLLECTOR RING ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	973J9F3	COLLECTOR RING ASSEMBLY	
01	16N3016	· PLATE, Top	1
02	518F134D70	· TUBE, Insulated 1 in lg	48
03	78N29	· RING, Collector	4
04	78N28	· RING, Collector	2
05	78N27	· RING, Collector	15
06	518F134D124	· TUBE, Insulated 2-1/4 in lg	4
07	518F134D85	· TUBE, Insulated 1/2 in lg	36
08	201460082	· 4/0 Wire, (Hypalon Jacket)	AR
09	44Z12D11	· CLAMP, Hose 2 in	8
10	445865117	· HOSE	AR
11		NOT USED	
12	16J1226	· PLATE, Support	1
13	85Z24D9	· CORD, Grip	1
14	205480326	· CABLE, Multi Conductor 16 Conduit	AR
15	201460088	· 1/0 Wire, (Hypalon Jacket)	AR
16	85Z24D7	· CORD, Grip	2
17	20Z770D12	· SCREW, Set #10 x 3/8 in	15
18	79T155D1	· LUG, Terminal	15
19	20Z770D1	· SCREW, Set 1/4 x 3/4 in	4
20	79T155D6	· LUG, Terminal	2
21	20Z770D11	· SCREW, Set 3/8 x 3/4 in	32
22	79T437	· LUG, Terminal	16
23	518F134D125	· TUBE, Insulated 37-5/16 in lg	4
24	20T9797	· BOLT, Rod	4
25	017960051	· WIRE, Tie #16 Gauge x 20 in lg	AR
26	3615V015	· WASHER, Lock 3/4 in	4
27	20Q270D48	· NUT, Hex 3/4-10UNC	4
28	79U2522D16	· LUG, #12 AWG (Not Shown)	16
29	79U2522D47	· LUG, #1/0 AWG (Not Shown)	2
30	79U2522D59	· LUG, #4/0 AWG (Not Shown)	16
31	32Z2510	· WIRE MARKER (Not Shown)	72
32	79Z3134D6	· TUBING, Heat Shrink (Not Shown)	AR
33	79Z3134D10	· TUBING, Heat Shrink (Not Shown)	AR
34	0624V037	· SCREW, Hex hd cap 3/8-16UNC x 3/4 in (Brass))(Not Shown)	20
35	17Z286D9	· WASHER, Belleville (Not Shown)	20
36	2047V003	· NUT, Hex 3/8-16UNC (Brass))(Not Shown)	20



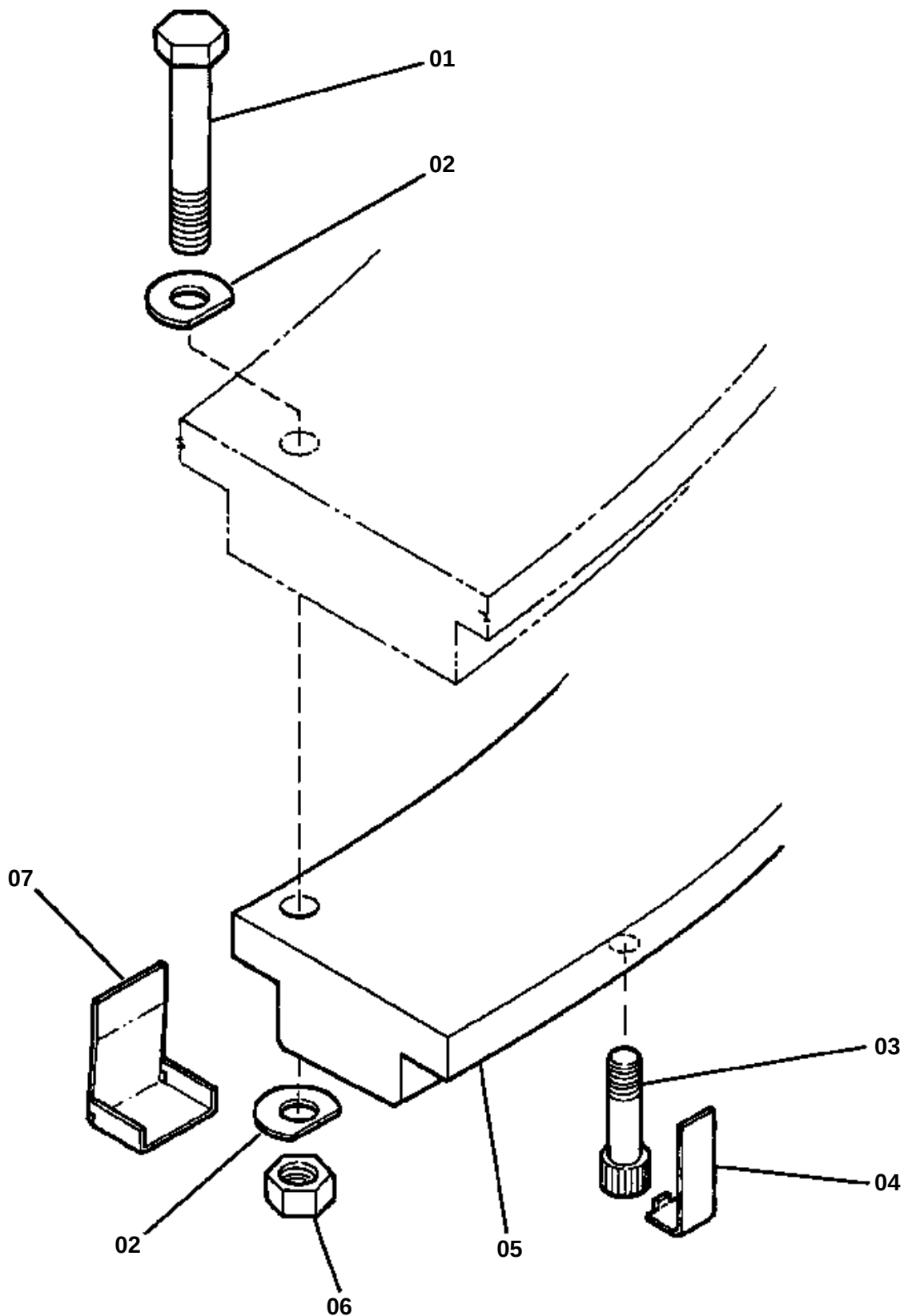
Machine Serial Number: **4184**

COLLECTOR RING ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
37	85Z24D7	· CORD, Grip (Not Shown)	1
38	R23229D50	· CABLE, Remote (Not Shown)	1



ROLLER PATH, UPPER



F6588A

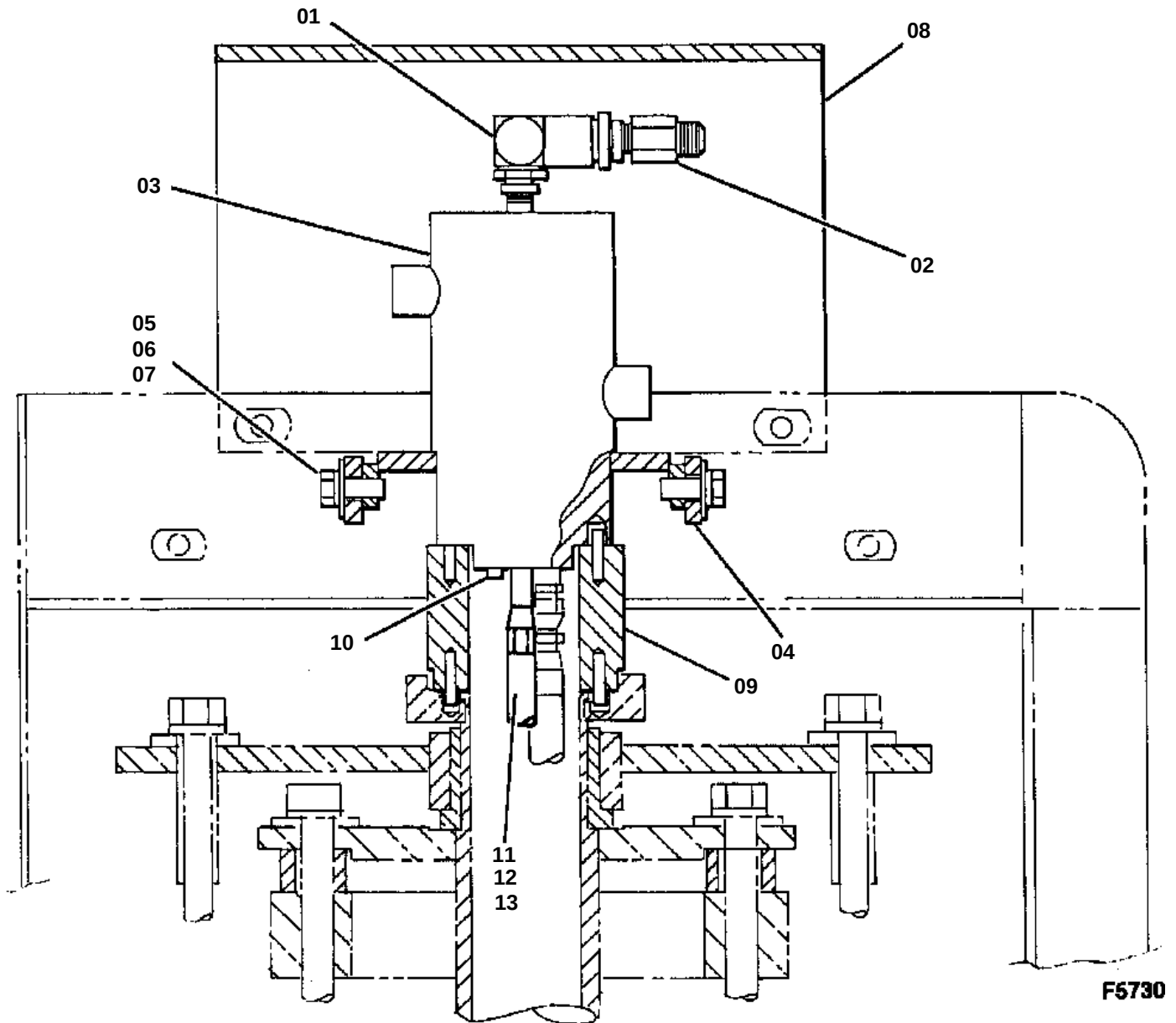


Machine
Serial Number: **4184**

ROLLER PATH, UPPER

[illegible]

SWIVEL, AIR & GREASE





Machine
Serial Number: **4184**

SWIVEL, AIR & GREASE

[illegible]

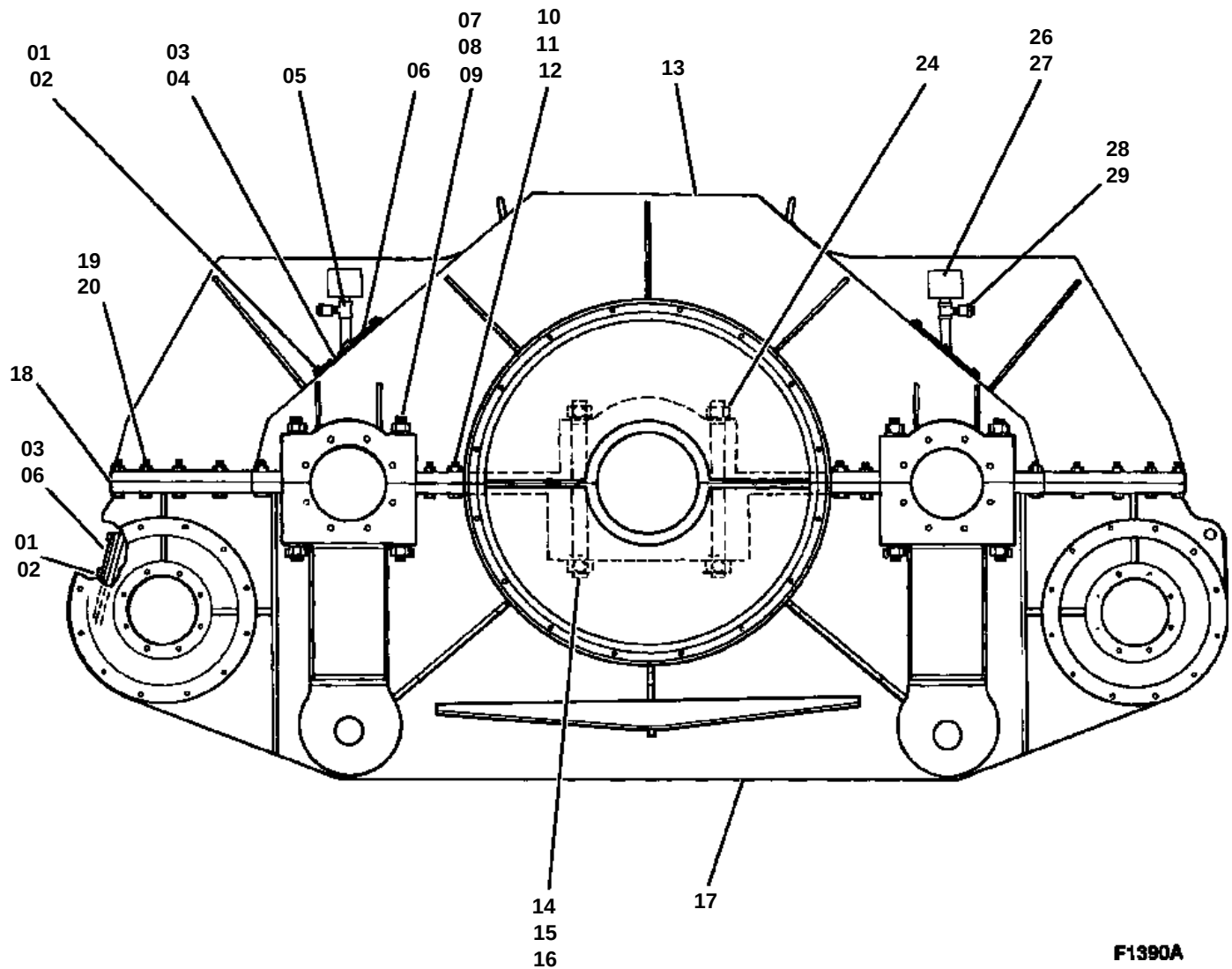


Group 4 - Hoist System

Description	Page
GEAR CASE, HOIST	4-1
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GEAR CASE, HOIST



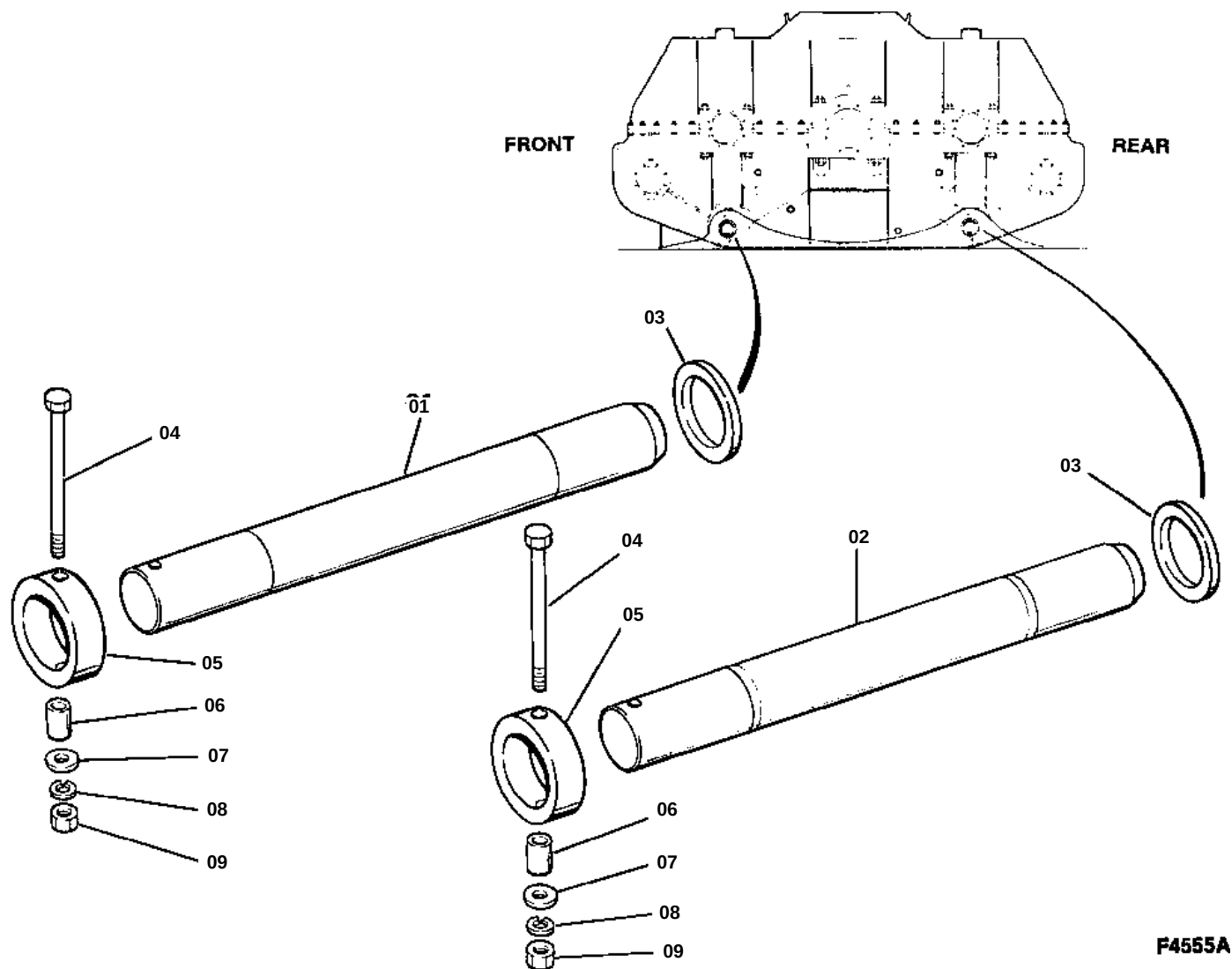


GEAR CASE, HOIST

REF	PART NO.	DESCRIPTION	QTY
	914J390F2	GEAR CASE, HOIST	
01	20Q260D325	• SCREW, Hex hd cap 1/2-13UNC X 1in lg.	24
02	3616V011	• WASHER, Lock 1/2in.	24
03	20T10044	• GASKET, Cover	4
04	16N3499	• BASE, Breather	2
05	2478V038	• TEE, Reducing	2
06	14T2022	• COVER	2
07	20T9740D7	• BOLT, Rod 1-3/4-5UNC X 25in lg.	8
08	18Z694D15	• WASHER, Hardened 1-3/4in.	16
09	20Z1566D15	• NUT, Hex 1-3/4-5UNC	16
10	19T6475	• PIN, Dowel	8
	19N108	• PIN, Dowel (opposite side of gearcase)	2
11	18Z694D12	• WASHER, Hardened 1-1/4in.	12
12	20Z1566D12	• NUT, Hex 1-1/4-7UNC	12
13	N.S.S.	• COVER, Hoist Gear Case	1
14	20P1903D2	• BOLT, Rod 2-1/2-12UNR X 31-1/2in lg.	4
15	18Z694D18	• WASHER, Hardened 2-1/2	4
16	20Z2641D5	• NUT, Hex 2-1/2-12UN	4
17	N.S.S.	• BASE, Hoist Gear Case	1
18	45Z606D360	• O-RING	1
19	20Q260D547	• SCREW, Hex hd cap 1-8UNC X 5-1/2in lg.	26
20	20Z1208D10	• NUT, Lock 1-8UNC	26
21	44Z1D6	• FITTING, Lubrication (Not Shown)	2
22	2420V060	• NIPPLE, Pipe 1/4 in. x 8 in. (Not Shown)	2
23	2409V002	• COUPLING, Pipe 1/4 in. (Not Shown)	2
24	R25192D1	• NUT, Super	4
25	21Z587D11	• JOINTING COMPOUND, (Not Shown)	AR
26	R48018D1	• FILTER, Breather	2
27	R48018D2	• • ELEMENT, Filter Replacement	1
28	R42880D1	• INDICATOR, Filter	2
29	2401V507	• BUSHING, Pipe 1/2 in	2



MOUNTING PIN, HOIST GEAR CASE





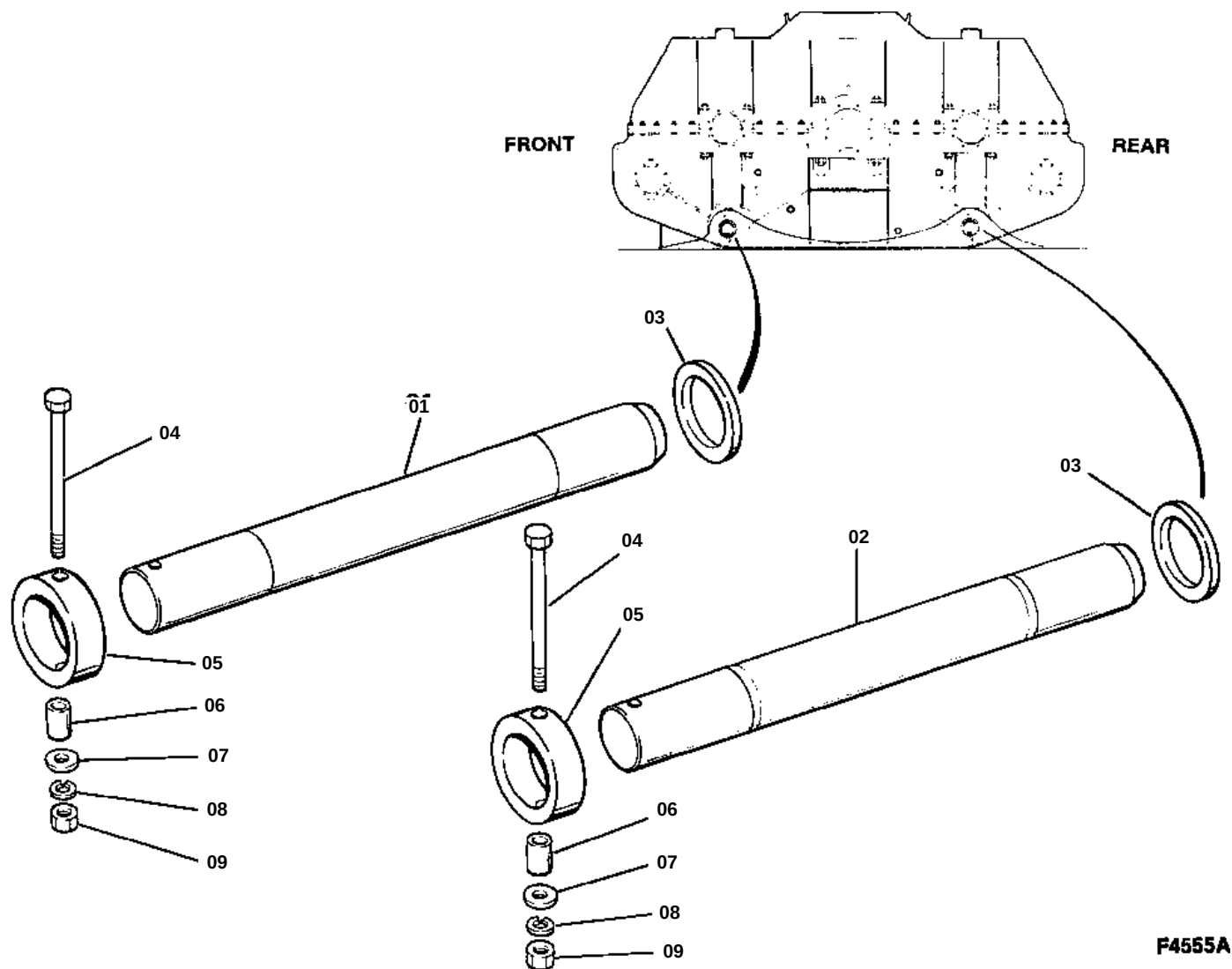
Machine
Serial Number: **4184**

MOUNTING PIN, HOIST GEAR CASE

[illegible]



MOUNTING PIN, HOIST GEAR CASE

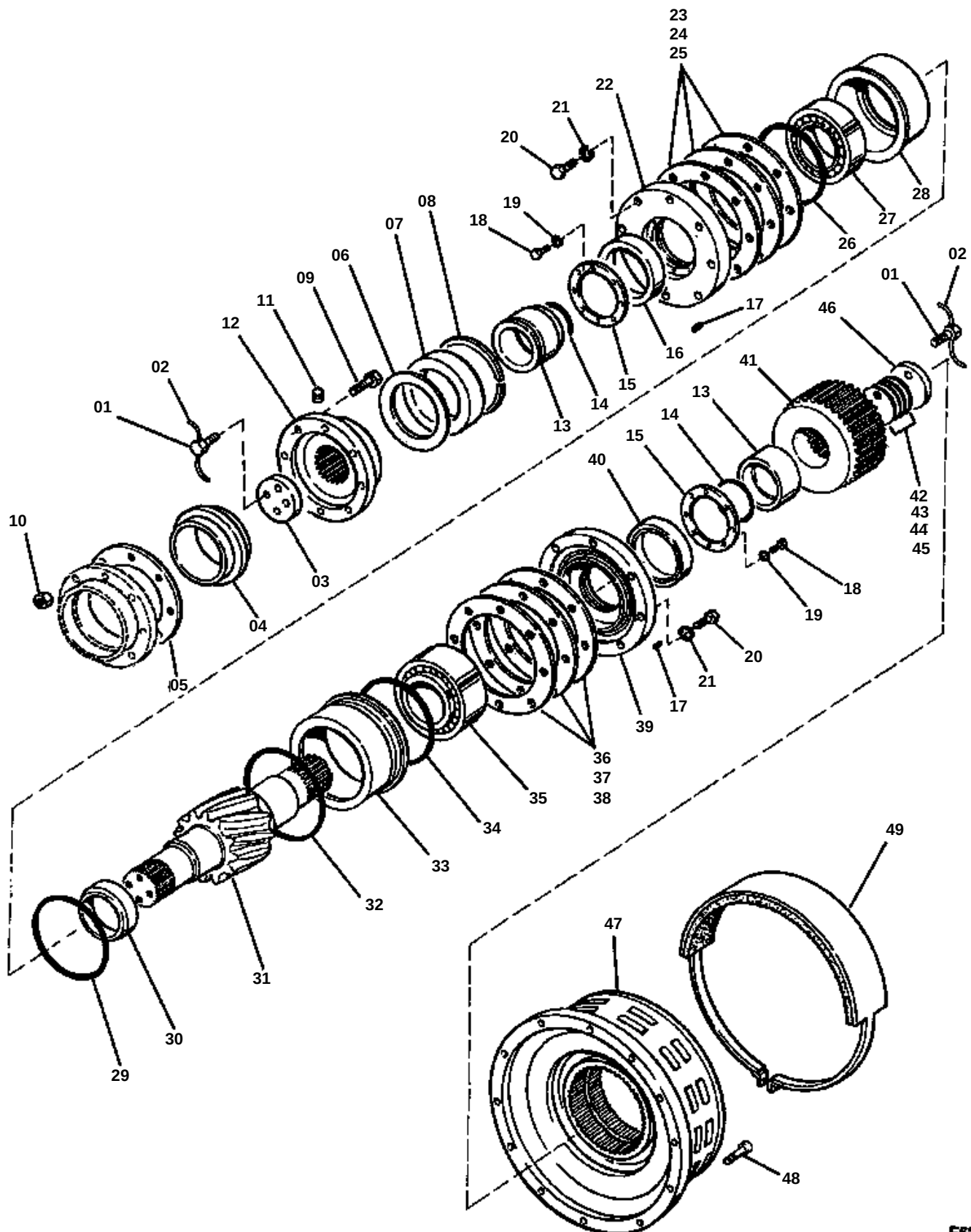


MOUNTING PIN, HOIST GEAR CASE

[illegible]



SHAFT, HOIST INPUT



F6298



SHAFT, HOIST INPUT

REF	PART NO.	DESCRIPTION	QTY
	910J651F5	SHAFT, HOIST INPUT	
01	20P1858D448	· SCREW, Drilled Hex Hd Cap 3/4-10UNC X 2in	8
02	017960063	· WIRE, Tie #10 x 24.00 in lg	AR
03	R13754D1	· RETAINER, Coupling	1
04	R27009D1	· SPACER, Coupling	1
--	R23189F3	· HARDWARE KIT, Coupling	1

(NOTE: Kit also includes service parts for half coupling used on hoist motor shaft. See also Hoist Motor Mounting, Front/Rear)

05		· · GASKET	1
06		· · RING, Guide	1
07		· · SEAL, Lip	1
08		· · RING, Retaining	1
09		· · BOLT, Coupling	8
10		· · NUT, Coupling	8
11		· · PLUG, Lube	4
12	R23188D1	· COUPLING, Half	1
13	18P8697D1	· SPACER	1
14	45Z91D63	· O-RING	2
15	18P8837D1	· RETAINER, Seal	2
16	18Z3696D5	· SEAL, Oil	2
17	20Z1221D7	· SCREW, Hex Soc Hd Set 3/8-16UNC X 1-1/4in	2
18	20Q260D189	· SCREW, Hex hd cap, 1/4 in. -20 x 1/2 in.	16
19	18Z1732D12	· WASHER, Lock, conical serrated	16
20	20Q260D451	· SCREW, Hex Hd Cap 3/4-10UNC X 2-3/4in	16
21	18Z1732D8	· WASHER, Serrated 3/4in	16
22	25J291D1	· RETAINER, Bearing	1
23	20P1956D10	· SHIM (0.002 in Thick)	AR
24	20P1956D11	· SHIM (0.005 in Thick)	AR
25	20P1956D12	· SHIM (0.015 in Thick)	AR
26	45Z91D15	· O-RING	1
27	25Z901D4	· BEARING	1
28	25N736	· CARRIER, Bearing	1
29	45Z91D116	· O-RING	1
30	18P8581	· SPACER	1
31	1J327	· SHAFT, Input - Hoist	1
32	45Z91D180	· O-RING	1



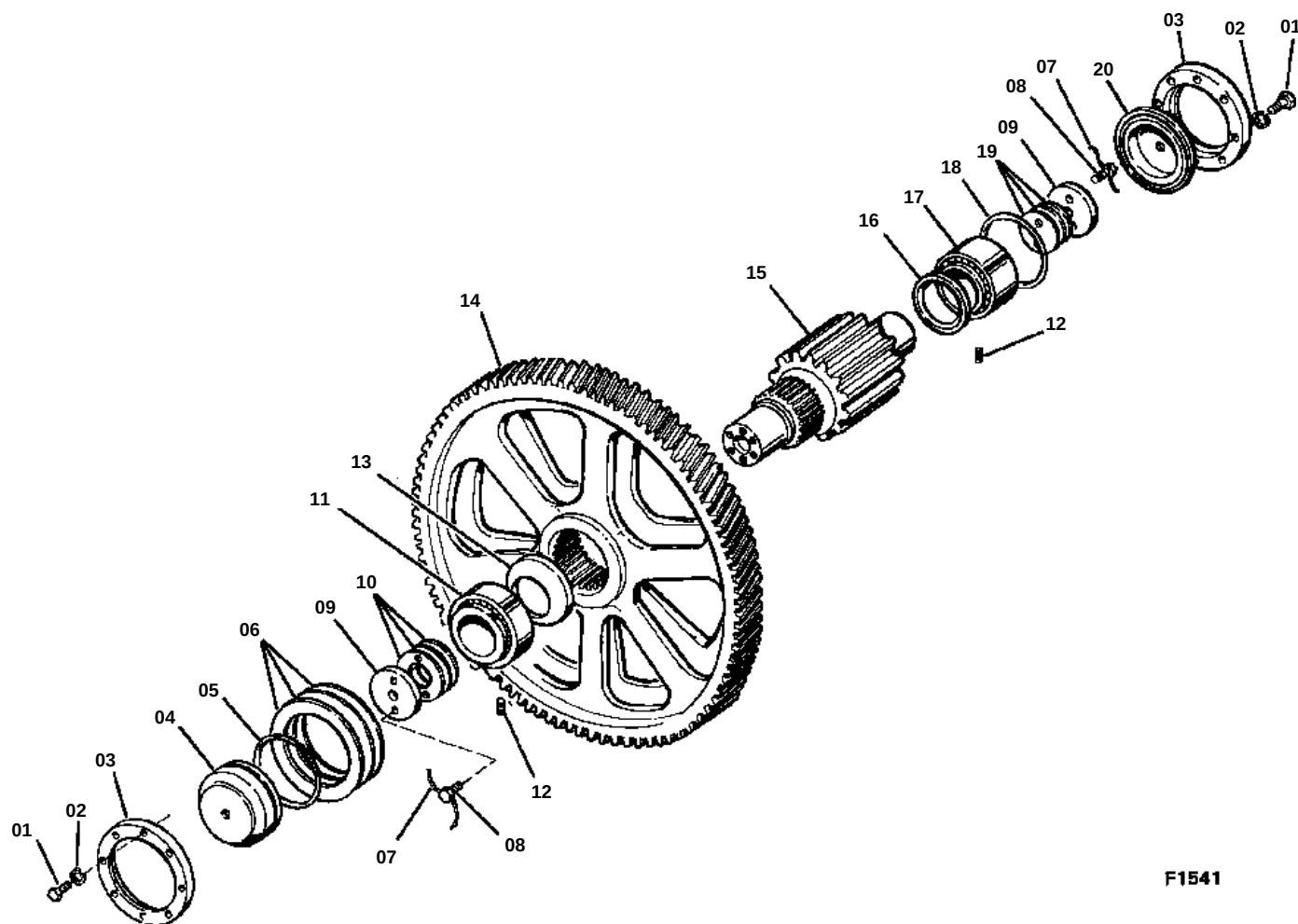
Machine
Serial Number: **4184**

SHAFT, HOIST INPUT

REF	PART NO.	DESCRIPTION	QTY
33	25N737	• CARRIER, Bearing	1
34	45Z91D28	• O-RING	1
35	25Z1106D49	• BEARING	1
36	20P1956D7	• SHIM (0.002 in Thick)	AR
37	20P1956D8	• SHIM (0.005 in Thick)	AR
38	20P1956D9	• SHIM (0.015 in Thick)	AR
39	25J292D1	• RETAINER, Bearing	1
40	18P8698D1	• SPACER	1
41	15N812D1	• HUB, Brake	1
42	20N603D1	• SHIM (0.005 in Thick)	AR
43	20N603D2	• SHIM (0.0075 in Thick)	AR
44	20N603D3	• SHIM (0.020 in Thick)	AR
45	20N603D4	• SHIM (0.040 in Thick)	AR
46	18P8492D7	• RETAINER, Brake Hub	1
47	R24170D1	• BRAKE, Disc	1
48	0630V126	• SCREW, Hex Soc Hd Set 3/4-10UNC X 3-1/2in	12
49	14N3014D1F1	• COVER, Disc brake	1



SHAFT, INTERMEDIATE, HOIST



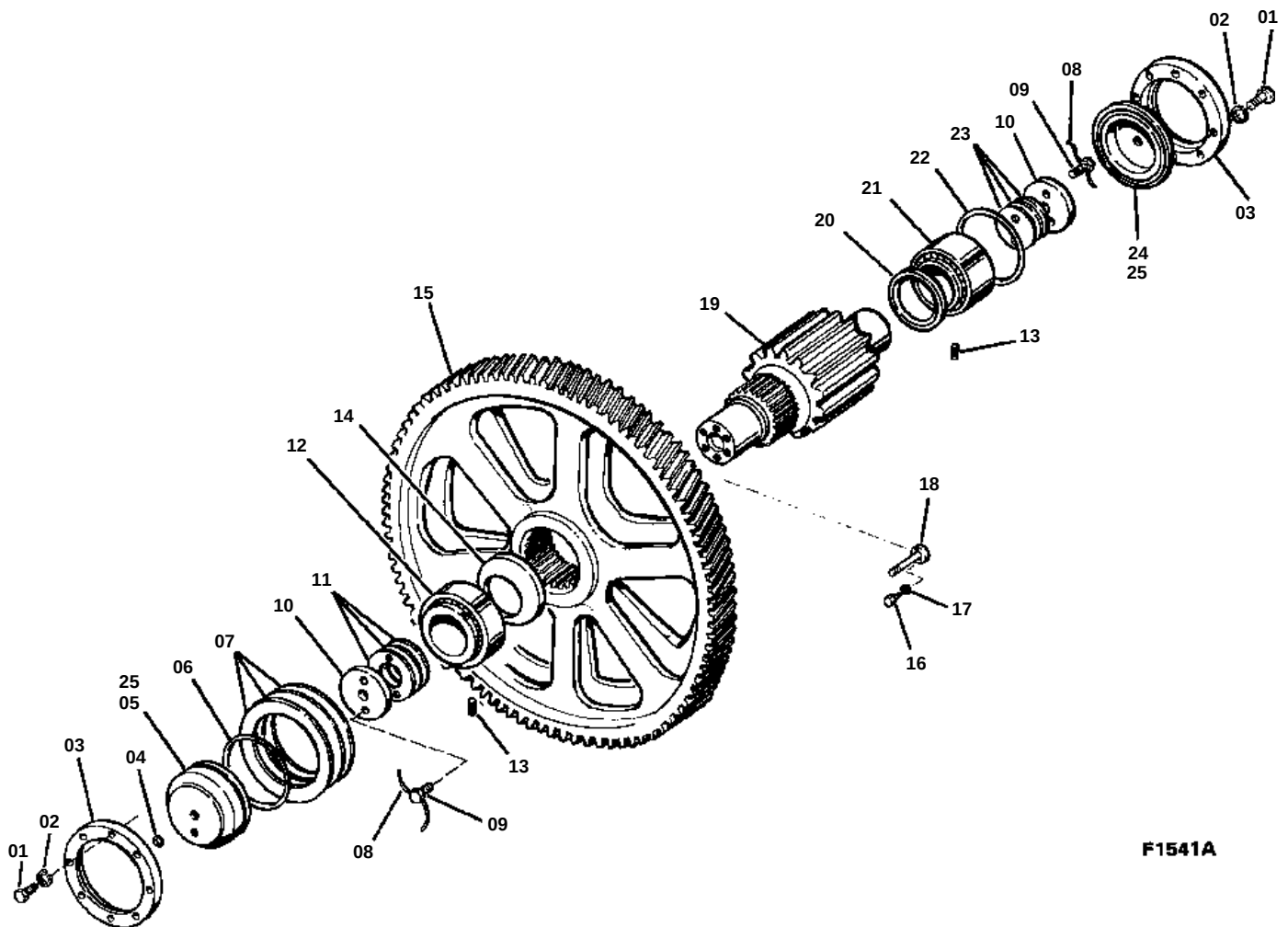
F1541

SHAFT, INTERMEDIATE, HOIST

REF	PART NO.	DESCRIPTION	QTY
	910J632F1	SHAFT, INTERMEDIATE, HOIST	
01	20Q260D539	· SCREW, Hex Hd Cap 1-8UNC x 3 in	16
02	18Z694D10	· WASHER, Hardened 1 in	16
03	25N741	· FLANGE, Retainer	2
04	25N740D1	· RETAINER, Bearing	1
05	45Z91D189	· O-RING	1
06	20Z612D455	· SHIM, .005 in thk	AR
	20Z612D456	· SHIM, .0075 in thk	AR
	20Z612D457	· SHIM, .020 in thk	AR
07	017960067	· WIRE, Tie #8	AR
08	20P1858D539	· SCREW, Drill Hex Hd Cap 1-8UNC x 3 in	12
09	18P8492D10	· PLATE, Bearing Retainer End	2
10	20Z612D458	· SHIM, .005 in thk	AR
	20Z612D459	· SHIM, .0075 in thk	AR
	20Z612D460	· SHIM, .020 in thk	AR
11	25Z1106D50	· BEARING	1
12	19T6438D2	· PIN, Dowel 1 in Dia x 1-1/2 in	2
13	18P8584	· SPACER	1
14	1J328	· GEAR, Intermediate Hoist	1
15	1J329	· SHAFT, Intermediate Hoist Pinion	1
16	18P8583	· SPACER	1
17	25Z1106D4	· BEARING	1
18	45Z91D210	· O-RING	1
19	20Z612D461	· SHIM, .005 in thk	AR
	20Z612D462	· SHIM, .0075 in thk	AR
	20Z612D463	· SHIM, .020 in thk	AR
20	25N742	· RETAINER, Bearing	1
21	44Z992D8	· PLUG, Cap 3/4 in (Not Shown)	2



SHAFT, INTERMEDIATE, HOIST



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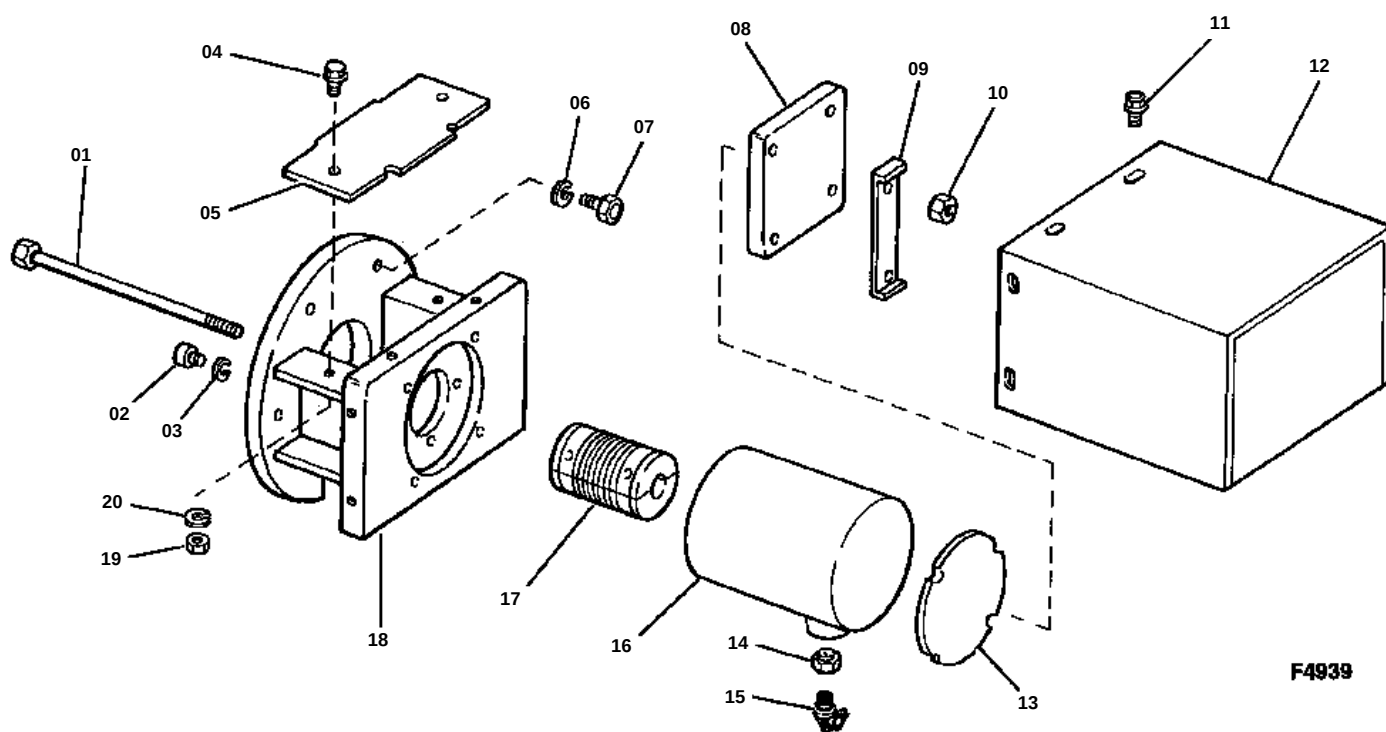


SHAFT, INTERMEDIATE, HOIST

REF	PART NO.	DESCRIPTION	QTY	PAGE
	910J632F2	SHAFT, INTERMEDIATE, HOIST		
01	20Q260D539	• SCREW, Hex Hd Cap 1-8UNC x 3 in lg	16	
02	18Z694D10	• WASHER, Hardened 1 in	16	
03	25N741	• FLANGE, Retainer	2	
04	18Z479D83	• SEAL, Oil	1	
05	25J295D1	• RETAINER, Bearing	1	
06	45Z91D189	• O-RING	1	
07	20Z612D455	• SHIM, .005 in thk	AR	
	20Z612D456	• SHIM, .0075 in thk	AR	
	20Z612D457	• SHIM, .020 in thk	AR	
08	P&H SPEC 179	• WIRE, Tie #8	AR	
09	20P1858D539	• SCREW, Drill Hex Hd Cap 1-8UNC x 3 in	12	
10	18P8492D10	• PLATE, Bearing Retainer End	2	
11	20Z612D458	• SHIM, .005 in thk	4	
	20Z612D459	• SHIM, .0075 in thk	3	
	20Z612D460	• SHIM, .020 in thk	8	
12	25Z1106D50	• BEARING	1	
13	19T6438D2	• PIN, Dowel 1 in Dia x 1-1/2 in	2	
14	18P8584	• SPACER	1	
15	1J328	• GEAR, Intermediate Hoist	1	
16	20Q260D260	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in lg	3	
17	18Z694D5	• WASHER, Hardened 3/4 in	3	
18	10P1764	• EXTENSION, Shaft	1	
19	1J329	• SHAFT, Intermediate Hoist Pinion	1	
20	18P8583	• SPACER	1	
21	25Z1106D4	• BEARING	1	
22	45Z91D210	• O-RING	1	
23	20Z612D461	• SHIM, .005 in thk	AR	
	20Z612D462	• SHIM, .0075 in thk	AR	
	20Z612D463	• SHIM, .020 in thk	AR	
24	25N742	• RETAINER, Bearing	1	
	979J247F1	• SWITCH, Limit (Not Shown)	1	4-7



LIMIT SWITCH



F4939



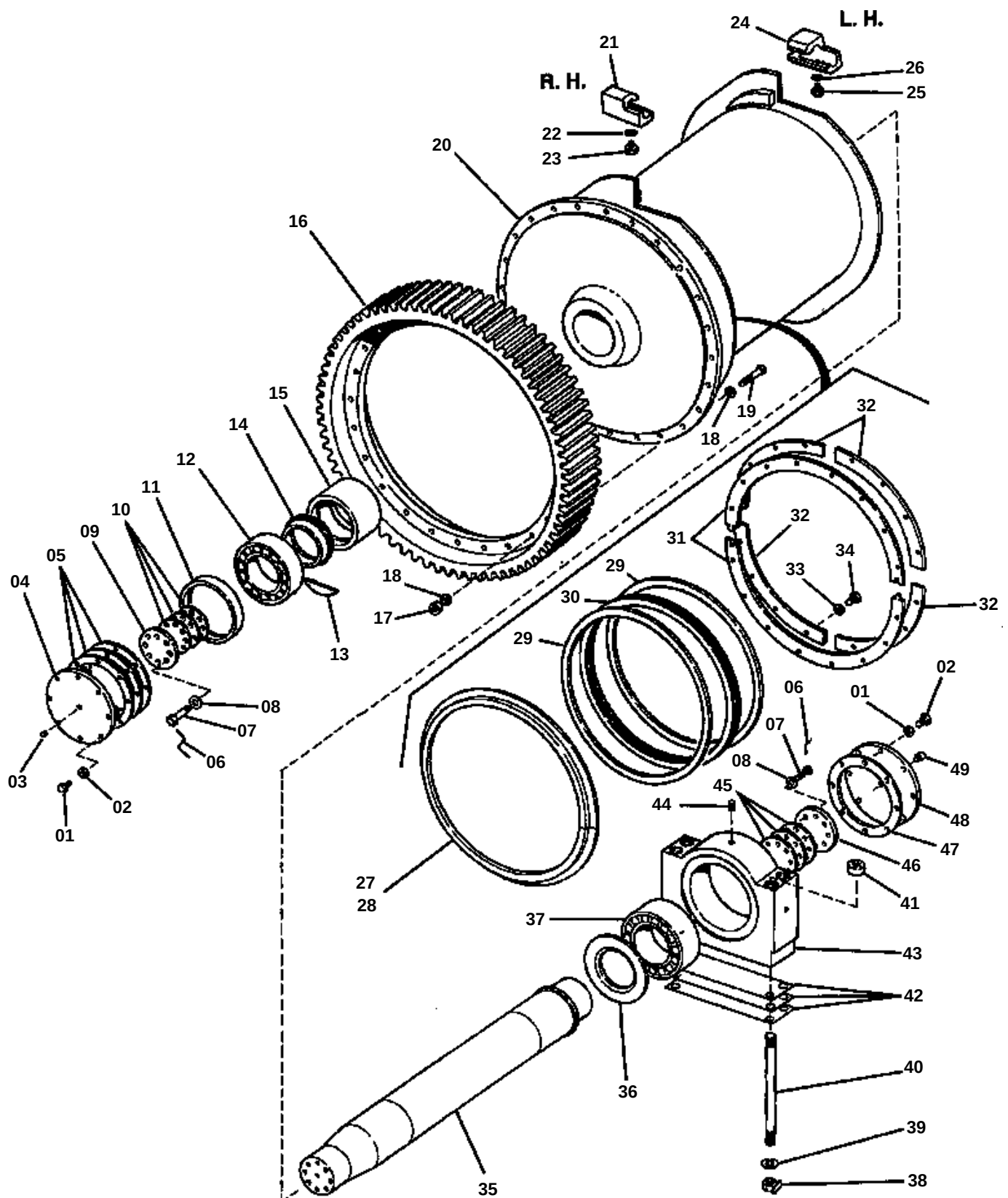
Machine
Serial Number: **4184**

LIMIT SWITCH

REF	PART NO.	DESCRIPTION	QTY
	979J247F1	LIMIT SWITCH	
01	20H1569D19	• BOLT, Rod 5/16-18UNC x 7-1/4 in	4
02	0631V003	• SCREW, Hex Soc Hd Cap #10-32UNF x 3/4 in	4
03	3616V005	• WASHER, Lock #10	4
04	20Z1703D54	• SCREW, Flanged Lock 5/16-18UNC x 1-1/4 in	2
05	14N2987D1	• GUARD, Coupling	1
06	3616V011	• WASHER, Lock 1/2 in	6
07	20Q260D324	• SCREW, Hex Hd Cap 1/2-13UNC x 7/8 in	6
08	18N2625D1	• PLATE, Retainer	1
09	18P8876D1	• PLATE, Locking	2
10	20Q270D20	• NUT, Hex 5/16-18UNC	4
11	20Z1703D50	• SCREW, Flanged Lock 5/16-18UNC x 5/8 in	6
12	14J1893D1	• COVER, Resolver	1
13	16P7335D1	• PAD, Rubber	1
14	0951V004	• BUSHING, Reducer 1 x 3/4 in	1
15	0916V003	• CONNECTOR, Conduit Box	1
16	75Z1252D1	• RESOLVER	1
17	18Q460D2	• COUPLING, Helical Flexible Shaft	1
18	16J1657D1	• BRACKET, Mounting	1
19	20Z1704D3	• NUT, Locking Flange 5/16-18UNC	2
20	18Z466D1	• WASHER, Bevel 5/16 in	2
	21Z772D4	• LOCTITE, Adhesive (Not Shown)	1



SHAFT, HOIST DRUM



F1567F



SHAFT, HOIST DRUM

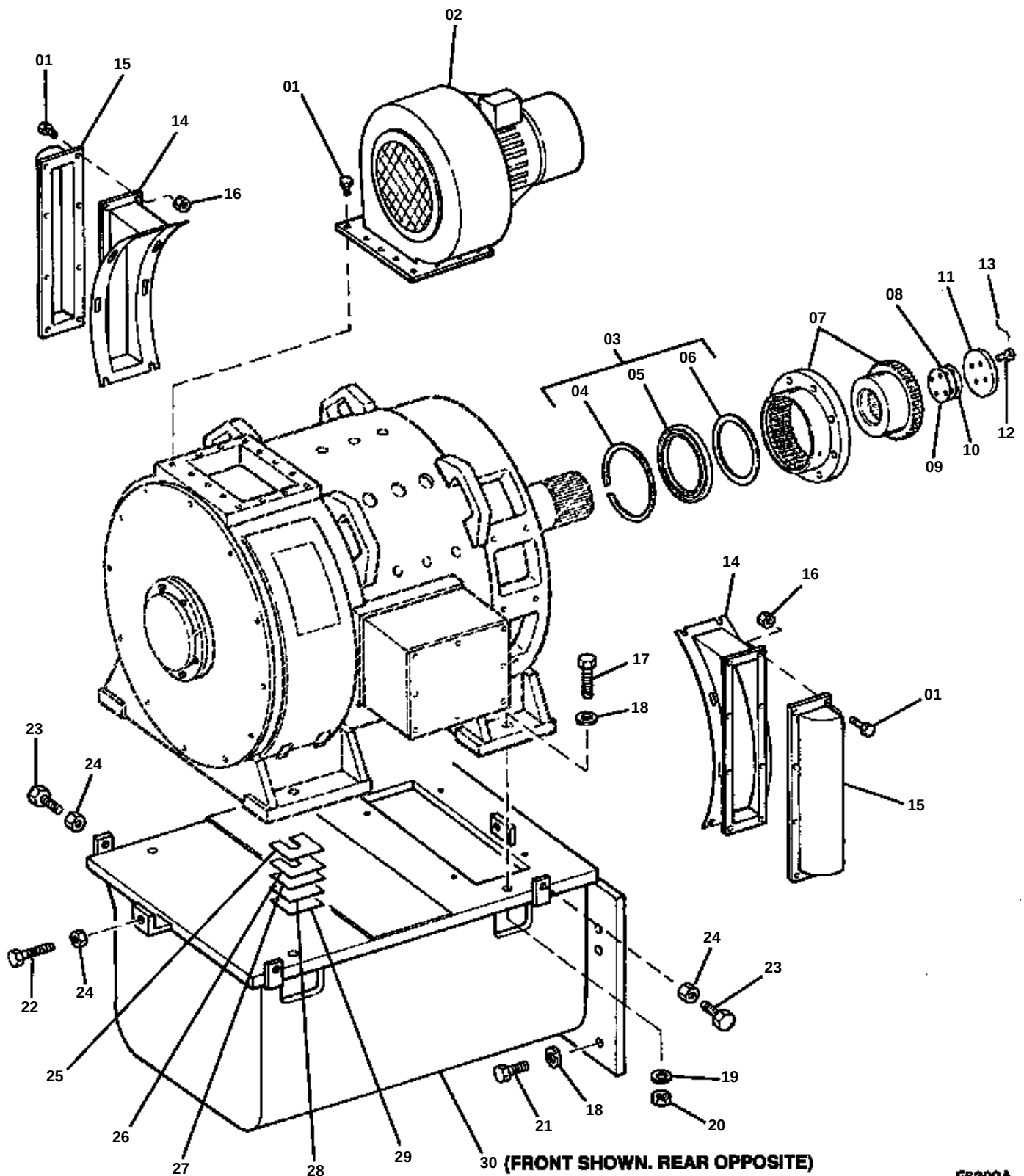
REF	PART NO.	DESCRIPTION	QTY
	910J663F4	SHAFT, HOIST DRUM	
01	20Q260D450	· SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in lg	16
02	18Z1732D8	· WASHER, Serrated 3/4 in	16
03	2446V003	· PLUG, Sq Hd Pipe 3/8 in	1
04	14P3323	· PLATE, Cover	1
05	20Z612D443	· SHIM, Adjusting (0.005)	AR
	20Z612D444	· SHIM, Adjusting (0.0075)	AR
	20Z612D445	· SHIM, Adjusting (0.020)	AR
06	017960071	· WIRE, Tie, #6 gauge x 72 in. lg.	AR
07	20P1872D615	· SCREW, Drilled hd cap., 1-1/4 -7UNC x 3-1/2 in. lg.	16
08	18Z694D12	· WASHER, Hardened 1-1/4 in	16
09	18P8492D9	· PLATE, Bearing Retainer	1
10	20Z612D440	· SHIM, Adjusting (0.005)	AR
	20Z612D441	· SHIM, Adjusting (0.0075)	AR
	20Z612D442	· SHIM, Adjusting (0.020)	AR
11	25P1321	· RETAINER, Bearing	1
12	25Z204D19	· BEARING, Spherical	1
13	727T22	· DAM, Oil	1
14	18P8578	· SPACER	1
15	18P8577	· SPACER	1
16	1J199	· GEAR, Hoist	1
17	20Z739D14	· NUT, Hex 1-1/2 - 6UNC	24
18	18Z694D14	· WASHER, Hardened 1-1/2 in	48
19	20Z1931D24	· BOLT, Coupling 1-1/2-6UNC x 8-3/4 in lg	24
20	R7861D2	· DRUM, Hoist	1
21	R36835F1	· · SOCKET, Ferrule Becket - RH	2
22	18Z1732D10	· · · WASHER, Conical	4
23	20Q260D533	· · · SCREW, Hex hd cap, 1-8UNC x 1-1/2 in.	4
24	R22687F1	· · SOCKET, Ferrule Becket - LH	2
25	18Z1732D10	· · · WASHER, Conical	1
26	20Q260D533	· · · SCREW, Hex Hd Cap 1-8UNC x 1-1/2 in	1
27	18Q403D1	· SEAL, Wiper	1
28	27Z1435	· STRIP, Green Rubber	1
29	18Q360D5	· SEAL, Split Oil	2
30	18P5690D4	· SPACER, Oil Seal	1
31	20N583	· GASKET (Half)	2
32	18T17825D1	· RETAINER (Quad)	4

SHAFT, HOIST DRUM

REF	PART NO.	DESCRIPTION	QTY
33	18Z1732D7	• WASHER, Serrated 5/8 in	16
34	20Q260D401	• SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in lg	16
35	10N752	• SHAFT, Hoist Drum	1
36	25P1322	• SPACER	1
37	25Z1267D2	• BEARING, Spherical	1
38	20Z2641D5	• NUT, Hex 2-1/2 in Bottom of Bearing Block Rod Bolt Ref 40	4
39	18Z2827D18	• WASHER, 2-1/2 in	4
40	20P1903D1	• BOLT, Rod 2-1/2 x 37 in lg	4
41	R25192D1	• NUT, CY Series, 2-1/2 in (SUPERNUT) Top of Bearing Block Rod Bolt Ref 40	4
42	20T10040D1	• SHIM, Adjusting (0.020)	AR
	20T10040D2	• SHIM, Adjusting (0.015)	AR
	20T10040D3	• SHIM, Adjusting (0.010)	AR
43	25J273	• BLOCK, Bearing	1
44	44Z992D5	• PLUG, Cap 3/8 in.	1
45	20Z612D452	• SHIM, Adjusting (0.005)	AR
	20Z612D453	• SHIM, Adjusting (0.0075)	AR
	20Z612D454	• SHIM, Adjusting (0.020)	AR
46	18Z694D12	• WASHER, Hardened 1-1/4 in.	16
47	20P1826D7	• GASKET	1
48	14N2818	• PLATE, Cover	1
49	44Z1D37	• FITTING, Relief	1



MOTOR MOUNTING, HOIST - FRONT



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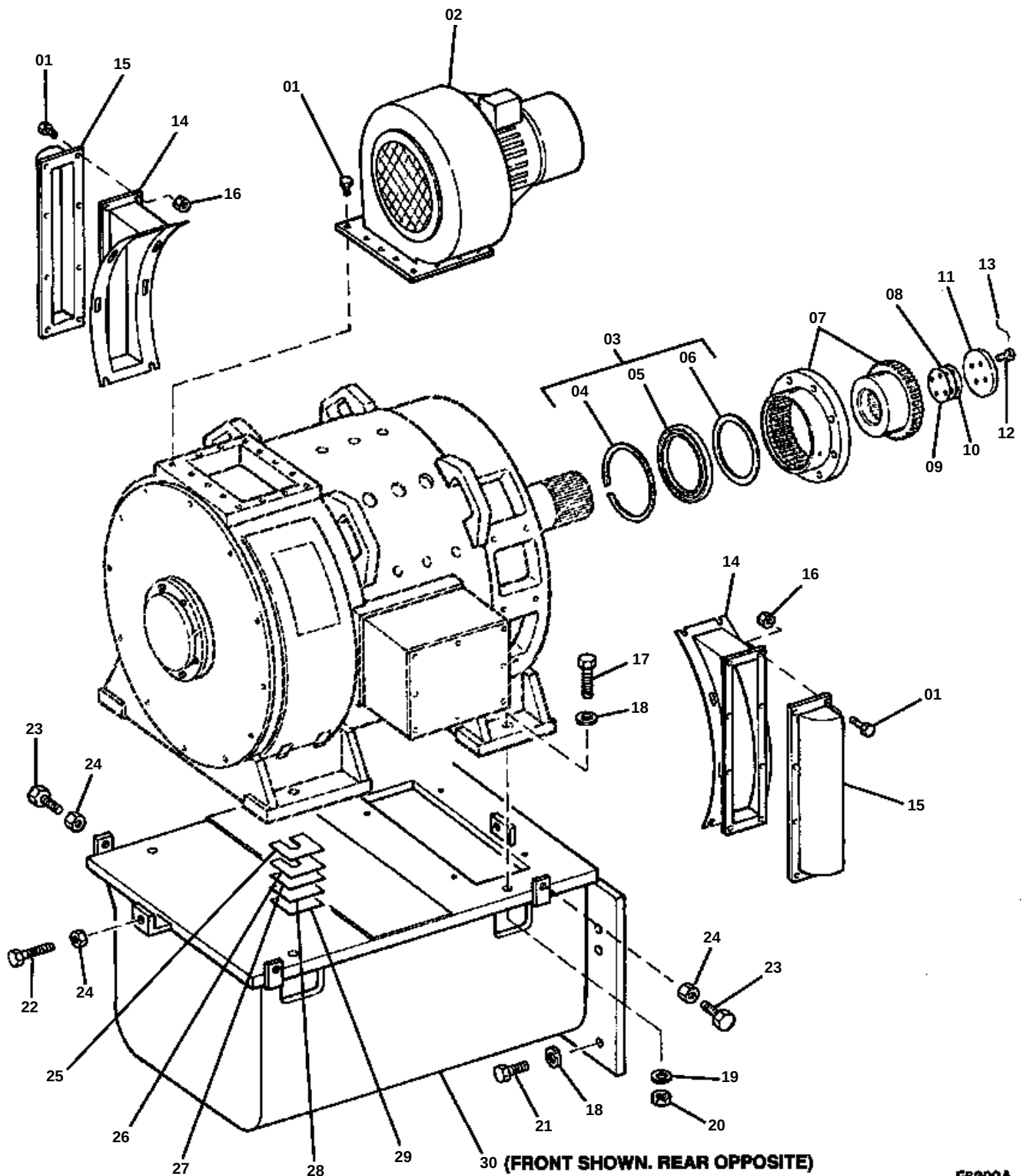


MOTOR MOUNTING, HOIST - FRONT

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R40712F1	MOTOR MOUNTING, HOIST - FRONT		
01	20Z1703D67	• SCREW, Flanged Lock 3/8-16UNC x 3/4 in	22	
02	R12599D1F4	BLOWER, Hoist Motor NOTE: Blower Motor is not included in R40712.	1	4-11
03	R23189F3	• HARDWARE KIT, Coupling	1	
		(NOTE: Kit also includes service parts for half coupling used		
		on hoist input shaft. See also Shaft, Hoist Input)		
04		• • RING, Retaining	1	
05		• • SEAL, Lip	1	
06		• • RING, GUIDE	1	
07	R33696D1	• COUPLING, Half	1	
08	20N603D1	• SHIM, 0.005 inch	AR	
09	20N603D2	• SHIM, 0.010 inch	AR	
10	20N603D3	• SHIM, 0.020 inch	AR	
11	R33697D1	• PLATE, Retainer	1	
12	20P1858D448	• SCREW, Drilled Hex Hd Cap 3/4-10UNC x 2 inch	4	
13	017960063	• WIRE, Tie #10	AR	
14	R25333D1	• COVER, Motor	1	
15	R25334D1	• DUCT, Exhaust, Hoist Motor	1	
16	20Z1704D5	• NUT, Flange Lock, 3/8-16UNC	8	
17	20Q259D690	• SCREW, Hex Hd Cap 1-1/2--6UNC x 7 inch	4	
18	18Z694D14	• WASHER, Hardened 1-1/2 inch	16	
19	18T17664	• WASHER, Special	4	
20	20Q271D96	• NUT, Hex 1-1/2--6UNC	4	
21	20Q259D685	• SCREW, Hex Hd Cap 1-1/2--6UNC x 4-1/2 inch	12	
22	20H3531D267	• SCREW, Hex Hd Cap 1-8UNC x 5 inch	3	
23	20H3531D265	• SCREW, Hex Hd Cap 1-8UNC x 4 inch	4	
24	20Q272D64	• NUT, Hex Jam 1-8UNC	7	
25	20P1905D1	• SHIM, 0.010 inch	AR	
26	20P1905D2	• SHIM, 0.020 inch	AR	
27	20P1905D3	• SHIM, 0.048 inch	AR	
28	20P1905D4	• SHIM, 0.060 inch	AR	
29	20P1905D5	• SHIM, 0.075 inch	AR	
30	16J1485D5	BASE, Hoist Motor-Front NOTE: Hoist Base is not included in R40712.	1	



MOTOR MOUNTING, HOIST - REAR



F6300A

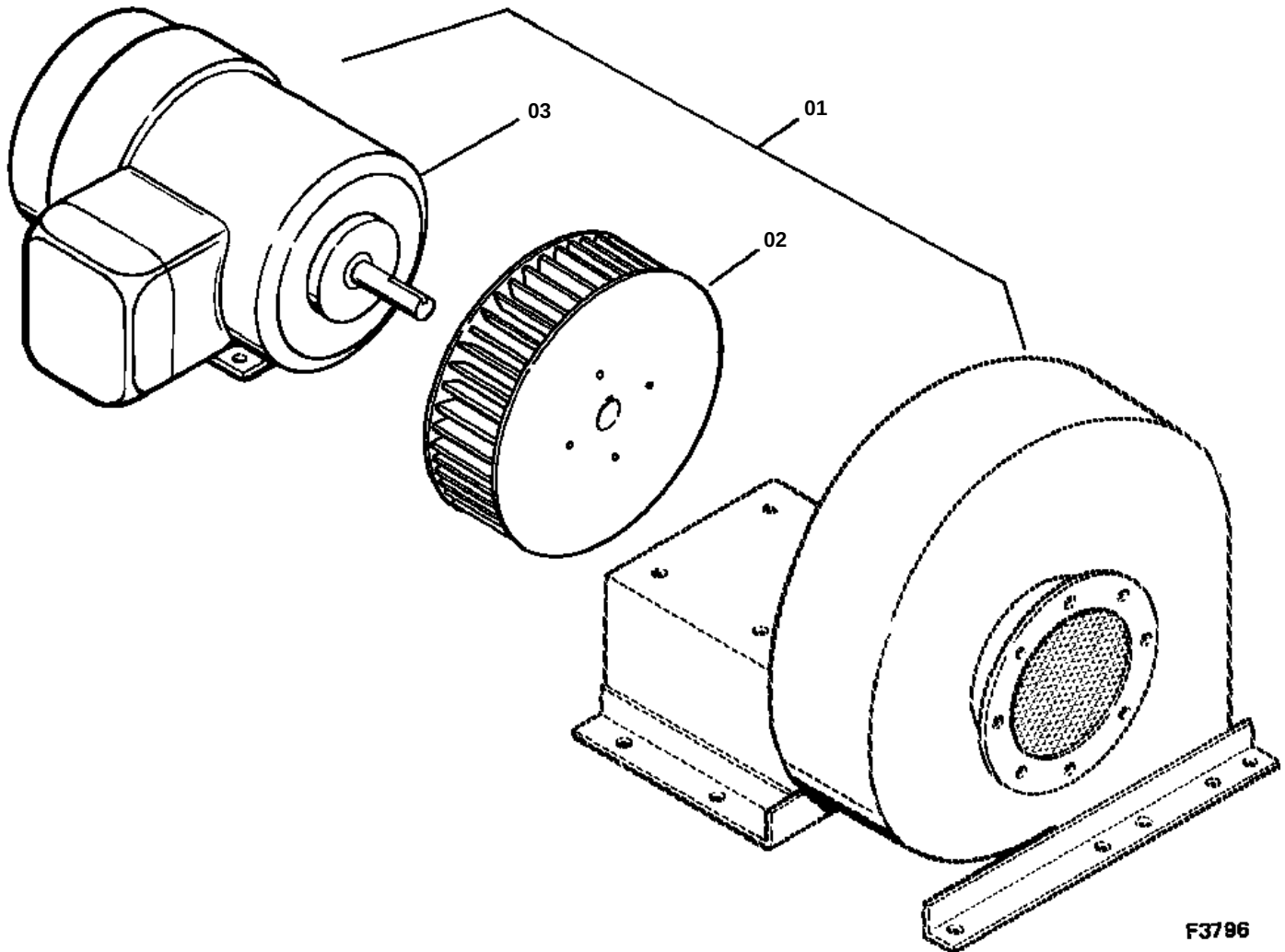


MOTOR MOUNTING, HOIST - REAR

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R40712F2	MOTOR MOUNTING, HOIST - REAR		
01	20Z1703D67	• SCREW, Flanged Lock 3/8-16UNC x 3/4 in	30	
02	R12599D1F4	BLOWER, Hoist Motor NOTE: Blower Motor is not included in R40712.	1	4-11
03	R23189F3	• HARDWARE KIT, Coupling	1	
		(NOTE: Kit also includes service parts for half coupling used on hoist input shaft. See also Shaft, Hoist Input)		
04		• • RING, Retaining	1	
05		• • SEAL, Lip	1	
06		• • RING, GUIDE	1	
07	R33696D1	• COUPLING, Half	1	
08	20N603D1	• SHIM, 0.005 inch	AR	
09	20N603D2	• SHIM, 0.010 inch	AR	
10	20N603D3	• SHIM, 0.020 inch	AR	
11	R33697D1	• PLATE, Retainer	1	
12	20P1858D448	• SCREW, Drilled Hex Hd Cap 3/4-10UNC x 2 inch	4	
13	017960063	• WIRE, Tie #10	AR	
14	R25333D1	• COVER, Motor	2	
15	R25334D1	• DUCT, Exhaust, Hoist Motor	2	
16	20Z1704D5	• NUT, Flange Lock, 3/8-16UNC	16	
17	20Q259D690	• SCREW, Hex Hd Cap 1-1/2--6UNC x 7 inch	4	
18	18Z694D14	• WASHER, Hardened 1-1/2 inch	16	
19	18T17664	• WASHER, Special	4	
20	20Q271D96	• NUT, Hex 1-1/2--6UNC	4	
21	20Q259D685	• SCREW, Hex Hd Cap 1-1/2--6UNC x 4-1/2 inch	12	
22	20H3531D267	• SCREW, Hex Hd Cap 1-8UNC x 5 inch	3	
23	20H3531D265	• SCREW, Hex Hd Cap 1-8UNC x 4 inch	4	
24	20Q272D64	• NUT, Hex Jam 1-8UNC	7	
25	20P1905D1	• SHIM, 0.010 inch	AR	
26	20P1905D2	• SHIM, 0.020 inch	AR	
27	20P1905D3	• SHIM, 0.048 inch	AR	
28	20P1905D4	• SHIM, 0.060 inch	AR	
29	20P1905D5	• SHIM, 0.075 inch	AR	
30	16J1485D6	BASE, Hoist Motor-Rear NOTE: Hoist Base is not included in R40712.	1	



BLOWER





Machine
Serial Number: **4184**

BLOWER

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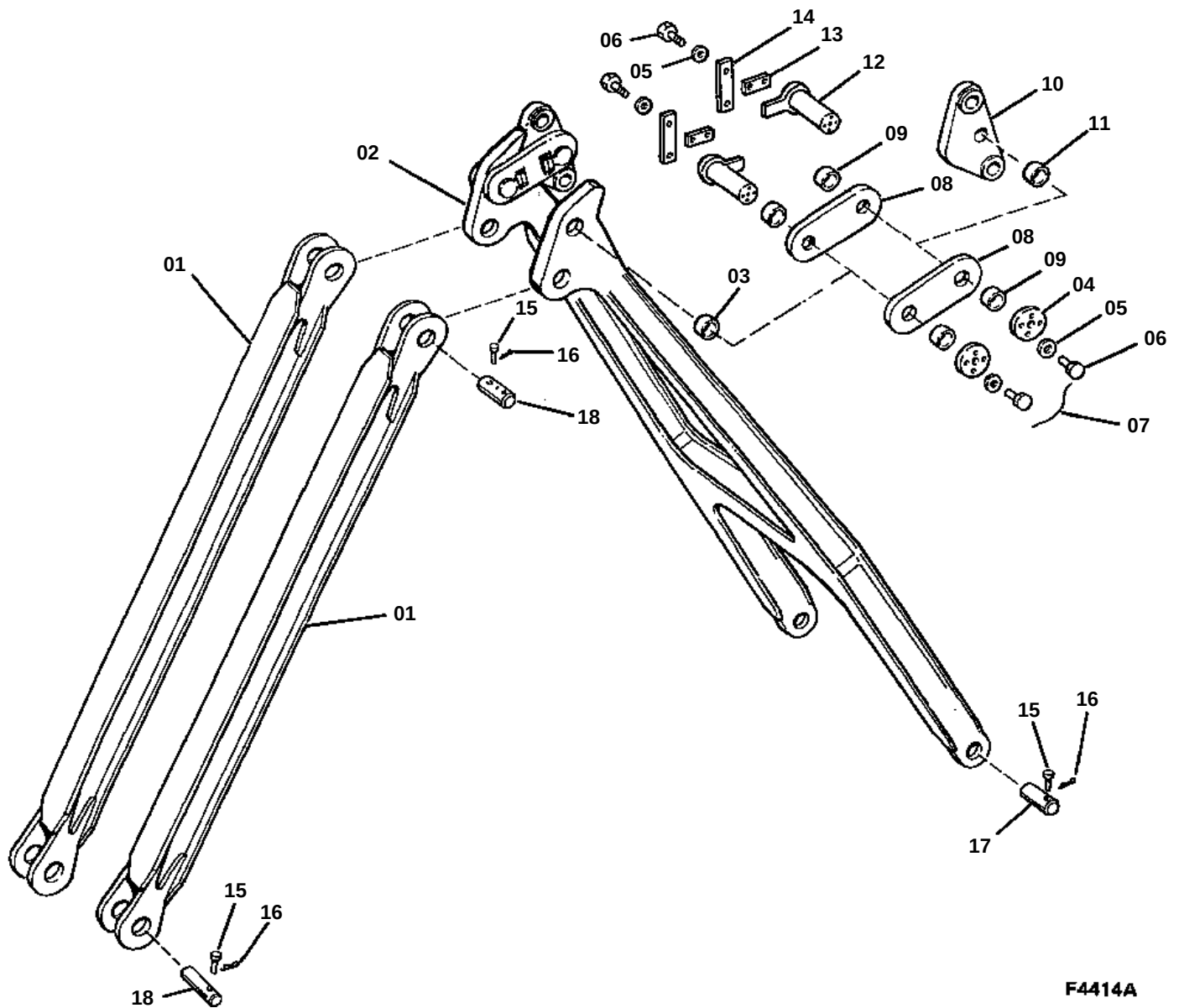


Group 5 - Attachment

Description	Page
GANTRY	5-1
BOOM ASSEMBLY	5-2
BUMPER, BOOM	5-9
HANDLE, DIPPER	5-10
DIPPER TRIP ASSEMBLY	5-11
INSTALLATION, BOOM LIMIT SWITCH	5-16
CABLES, ATTACHMENT	5-18



GANTRY



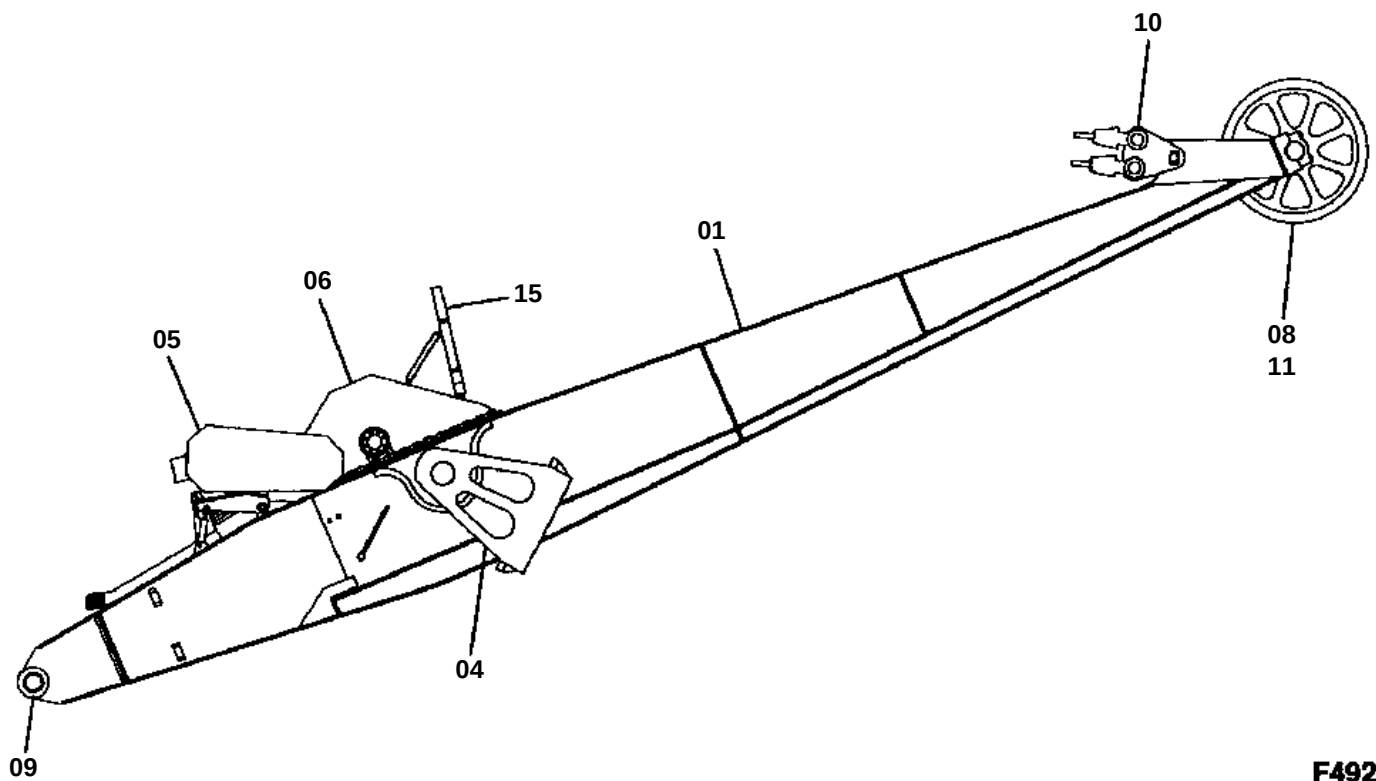
F4414A

GANTRY

REF	PART NO.	DESCRIPTION	QTY
	R6665F1	GANTRY	
01	11J3755	· TENSION MEMBER, Gantry	2
02	11J4086D1F1	· COMPRESSION MEMBER, Gantry	1
03	5T3375D2C1	· · BUSHING	2
04	18P8853D1	· RETAINER, Pin	4
05	18Z694D10	· WASHER, Hardened 1 in	32
06	20P1871D537	· SCREW, Hex dr hd cap 1-8UNC x 2-1/2 in	32
07	017960067	· WIRE, Tie	AR
08	R7728F1	· LINK, Gantry equalizer	4
09	R7719D2	· · BUSHING	2
10	R7720F1	· EQUALIZER, Gantry	2
11	R7719D1	· · BUSHING	1
12	R7718D1	· PIN, Gantry link/equalizer	4
13	718P766D69	· PLATE, Tapped	8
14	718P771D56	· PLATE, Retainer	8
15	19T5065D5	· PIN, Keeper	12
16	2203V102	· PIN, Cotter 5/16 x 2 in	12
17	19P822D3	· PIN, Compression member to revolving frame	2
18	19P822D1	· PIN, Tension member to frame & compression member	4



BOOM ASSEMBLY



F4920



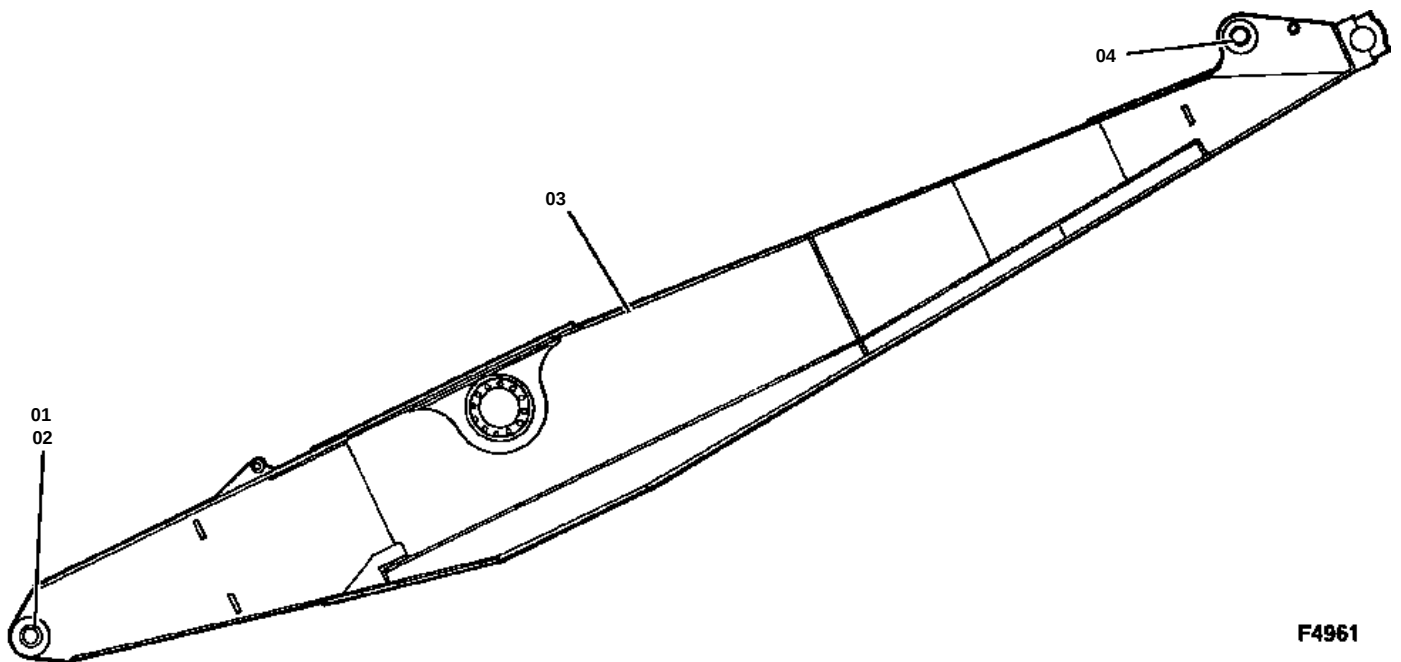
Machine
Serial Number: **4184**

BOOM ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R2967F3	BOOM ASSEMBLY		
01	R2797F1	• BOOM	1	5-3
02		NOT USED		
03		NOT USED		
04	R9288F1	• SHAFT, Shipper	1	6-1
05	R1877F1	• CROWD DRIVE ASSEMBLY	1	6-3
06	911J354F3	• BOOM SUB-ASSEMBLY	1	5-4
07		NOT USED		
08	919J41F3	• BOOM POINT ASSEMBLY	1	5-5
09	R31161F1	• PIN, Boom Foot	2	5-6
10	R3769F1	• EQUALIZER, Boom Point	2	5-7
11		NOT USED		
12	R2585F1	• CATWALK, Boom (Not Shown)	1	1-38
13		NOT USED		
14	921J36F2	• PUMP, Hydraulic Hand (Not Shown)	1	6-8
15	R3006F1	• GUIDE, Wire Rope	1	5-8
16	914J308F6	• COVER, Disc Brake (Not Shown)	1	
17		NOT USED		
18	979J249F1	• LIMIT SWITCH SUB-ASSEMBLY (Not Shown)	1	6-7
19		NOT USED		
20	944N17F1	• AIR PIPING, Disc Brake	1	8-10
21		NOT USED		
22	R13189F1	• MISCELLANEOUS ELECTRICAL (Not Shown)	1	14-70



BOOM



F4961



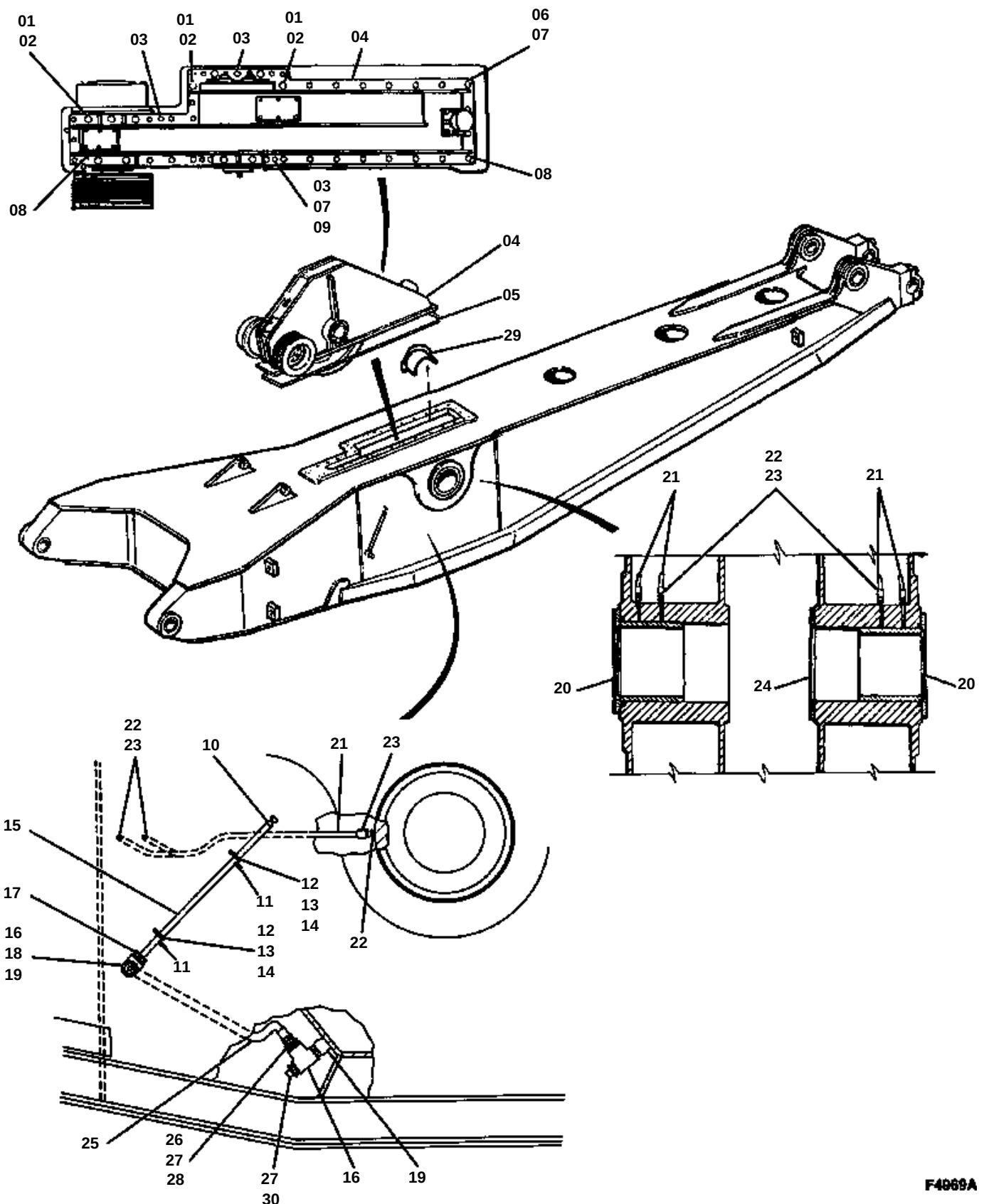
Machine
Serial Number: **4184**

BOOM

REF	PART NO.	DESCRIPTION	QTY
	R2797F1	BOOM	
01	5P308	• BUSHING, Boom Foot	4
02	5P309	• SPACER, Boom Foot	2
03	R2797D1	• BOOM, Weldment	1
--	NSS	• • BEARING BLOCK, Boom Point	2
	R36161D2	• • • BOLT, Rod	2
--	20Q279D160	• • • • NUT, Hvy hex 2-1/2--4	1
	21Z534D4	• • • LOCKTITE, Red	AR
	18Z694D18	• • • WASHER, Hardened 2-1/2 in	2
	6P2846	• • LUG, Lifting - Foot	4
	6P2793	• • LUG, Lifting - Point	4
04	5T3349	• BUSHING, Equalizer	4



BOOM SUB-ASSEMBLY



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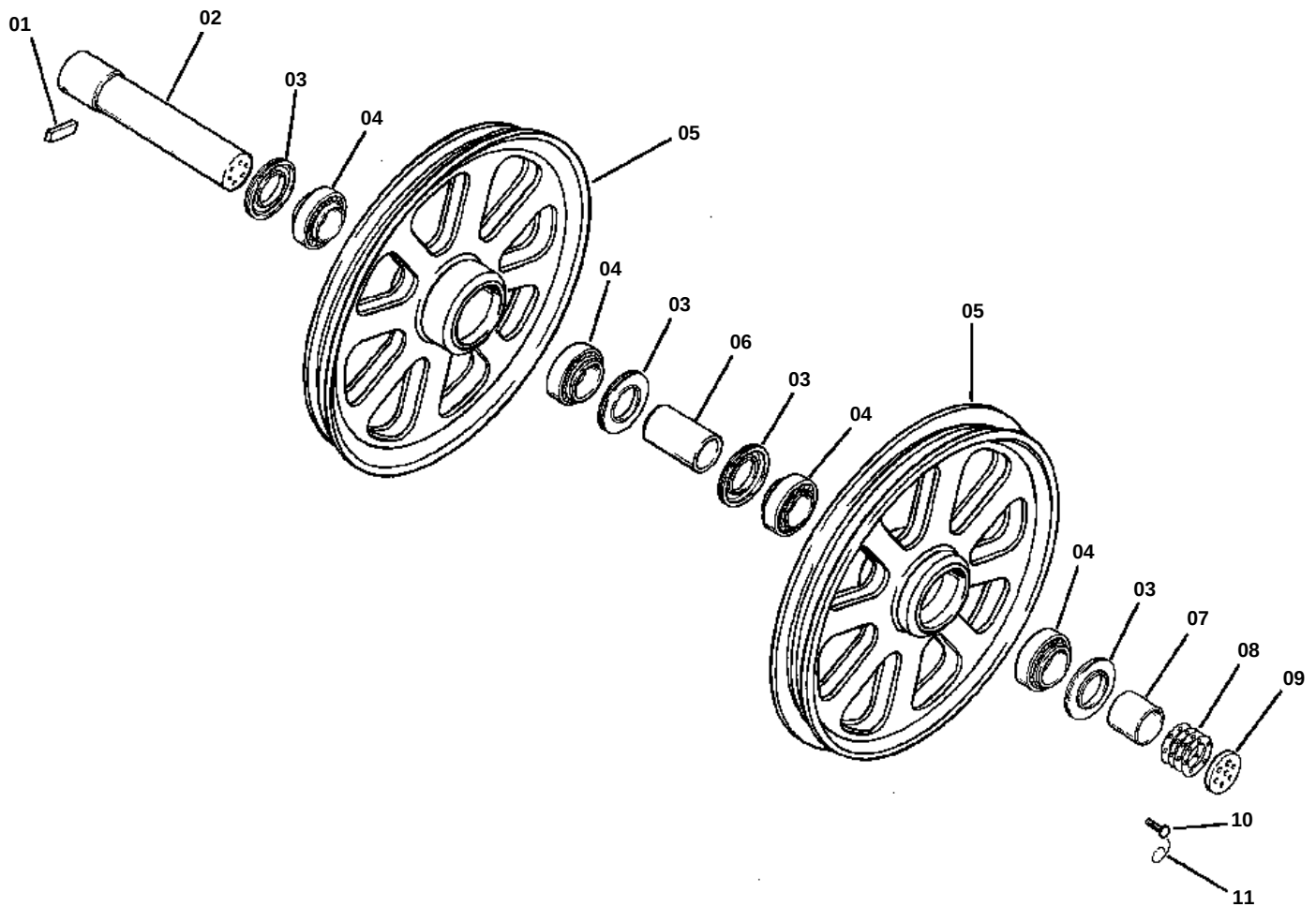


BOOM SUB-ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	911J354F3	BOOM SUB-ASSEMBLY		
01	20Q260D685	• SCREW, Hex Hd Cap 1-1/2-6UNC x 4-1/2 in lg	11	
02	18Z694D14	• WASHER, Hardened 1-1/2 in	11	
03	19T6481	• PIN, Dowel 1-1/8 in dia	8	
04	914J394F3	• GEARCASE ASSEMBLY, Crowd	1	6-4
05	45Z409D6	• SEAL, O-Ring	1	
06	20Q260D543	• SCREW, Hex Hd Cap 1-8UNC x 4 in lg	32	
07	18Z694D10	• WASHER, Hardened 1 in	40	
08	19Z138D72	• PIN, Dowel 3/4 in dia x 2 in lg	3	
09	20Q270D64	• NUT, Hex 1-8UNC	8	
10	14Z207D1	• DIPSTICK	1	
11	16T5242D2	• SUPPORT	2	
12	20Q3D3	• U-BOLT, 5/16-18UNC	2	
13	20Q270D20	• NUT, Hex 5/16-18UNC	4	
14	3616V008	• WASHER, Lock 5/16 in	14	
15	18P1269D30 or 18P1259D33	• NIPPLE, Standard Pipe 1 in NPT x 44 in lg or NIPPLE, Standard Pipe 1 in NPT x 56-1/2 in lg	1	
16	2425V010	• TEE, Standard Pipe 2-1/2 in NPT	2	
17	2401V510	• BUSHING, Reducer 2-1/2 in to 1 in NPT	1	
18	2423V010	• PLUG, Pipe 2-1/2 in NPT	1	
19	2419V283	• NIPPLE, Close 2-1/2 in NPT	2	
20		PART OF SHIPPER SHAFT		6-1
21	44Z1339D25	• HOSE, Medium Pressure 13/32 I.D. x 1/4 in	AR	
22	44Z590D11	• ADAPTER, Male PipeJIC	8	
23	44Q5D18	• SWIVEL, Hose End JIC	8	
24	18P8623	• WASHER, Thrust (Inside)	1	
25	443765107	• HOSE, Low Pressure 1-3/8 I.D. x 60 in lg	AR	
26	44Q5D42	• SWIVEL, Hose End JIC	2	
27	2401V024	• BUSHING, Reducer 2-1/2 in to 1-1/2 in NPT	3	
28	44Z590D23	• ADAPTER, Male Pipe JIC	2	
29		PART OF SHIPPER SHAFT		6-1
30	44Z193D6	• PLUG, Magnetic 1.5 in	1	
31	21Z587D2	• SILICONE SELANT, Oil Resistant	AR	



BOOM POINT ASSEMBLY



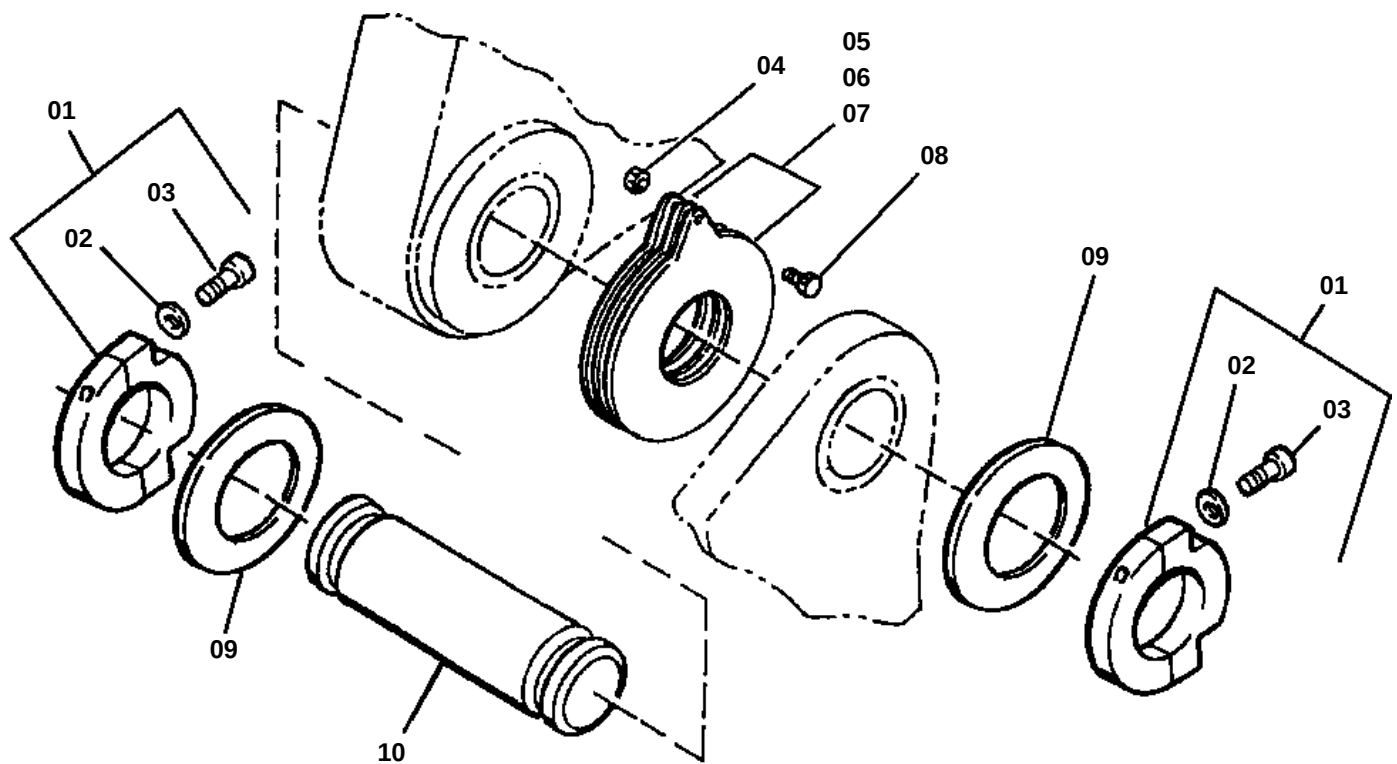
F1394

BOOM POINT ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	919J41F3	BOOM POINT ASSEMBLY	
01	18P8601	· PLATE, Retaining	1
02	19N105	· PIN.	1
03	25P1324	· RETAINER	4
04	25Z259D302	· BEARING, Roller	4
05	R7882D2	· SHEAVE, Boom Point	2
06	18P8598	· SPACER	1
07	18P8597	· SLEEVE	1
08	20N426D24	· SHIM (0.005)	3
	20N426D23	· SHIM (0.020)	3
	20N426D22	· SHIM (0.0598)	1
	20N426D21	· SHIM (0.1793)	2
09	18P8492D11	· RETAINER, Pin	1
10	20P1872D617	· SCREW, Drilled hd cap 1-1/4-7UNC X 4in lg.	6
11	017960071	· WIRE, Tie #6GA X 40in lg.	1



PIN, BOOM FOOT



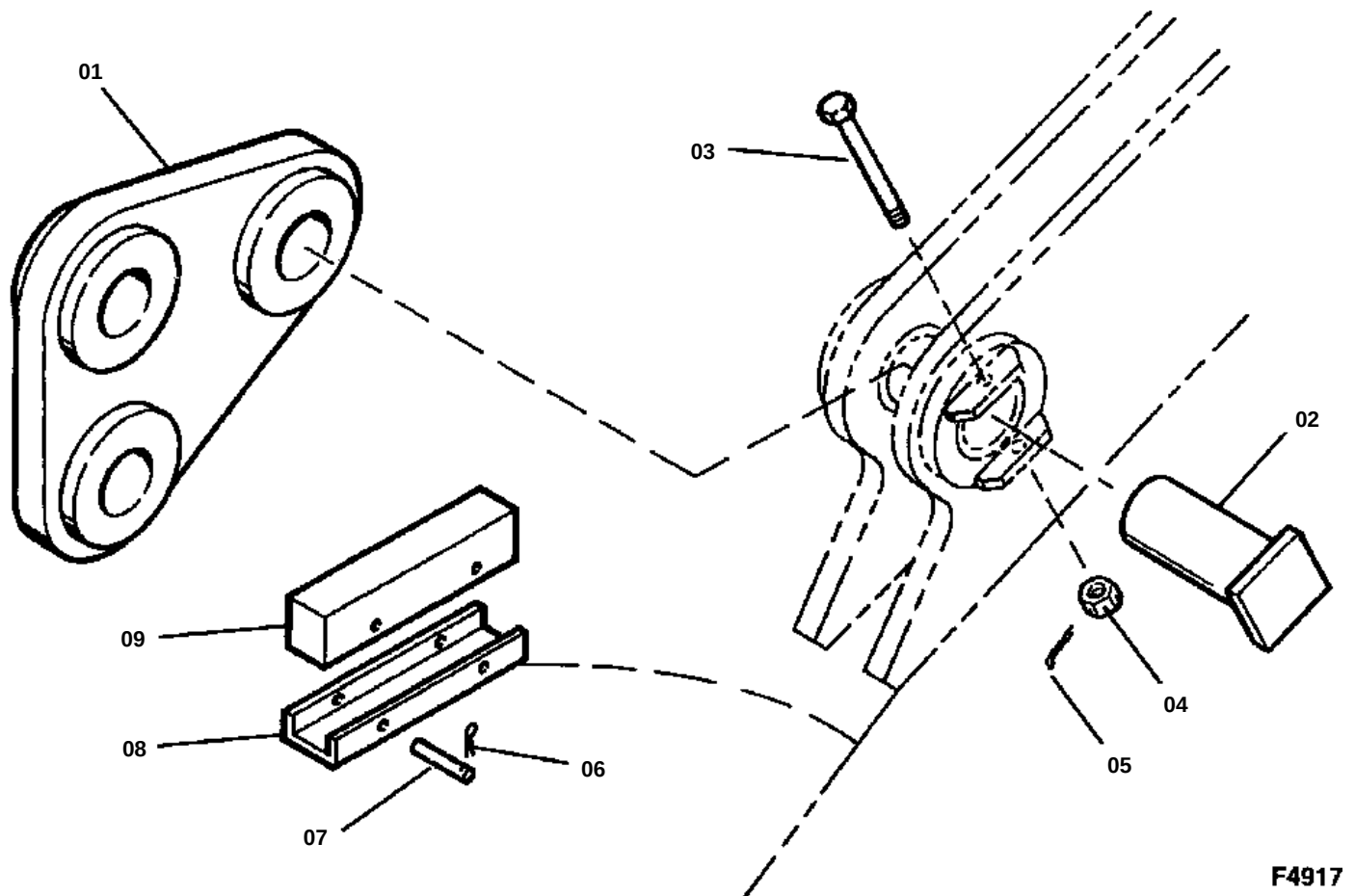
F6229A

PIN, BOOM FOOT

REF	PART NO.	DESCRIPTION	QTY
	R31161F1	PIN, BOOM FOOT	
01	R35564F1	· COLLAR, Split	2
02	0630V162	· · SCREW, Hex Soc Hd Cap 1-8UNC x 6 in lg	2
03	18Z694D10	· · WASHER, Hardened 1 in	2
04	20Z1704D5	· NUT, Locking Flange 3/8-16UNC	1
05	20N409D7	· SHIM, #10 GA.	AR
06	20N409D8	· SHIM, #16 GA.	AR
07	20N409D9	· SHIM, Special #16 GA.	AR
08	20Z1703D69	· SCREW, Flanged Lock 3/8-16UNC x 1 in	1
09	R31164D1	· WASHER, Thrust	2
10	R31165D1	· PIN, Boom Foot	1



EQUALIZER, BOOM POINT

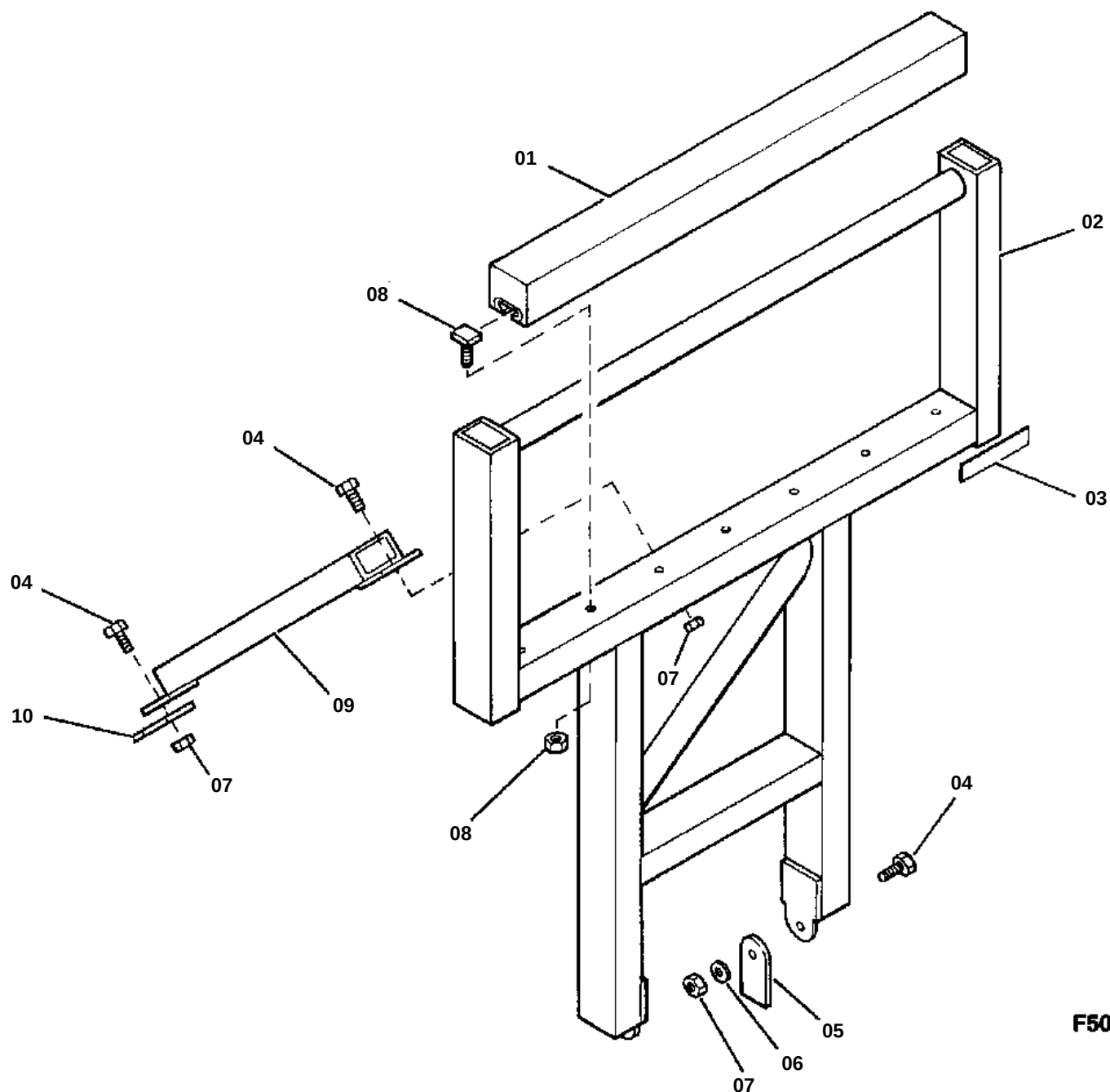


EQUALIZER, BOOM POINT

REF	PART NO.	DESCRIPTION	QTY
	R3769F1	EQUALIZER, BOOM POINT	
01	18N2543D1	· EQUALIZER	1
02	19T6403	· PIN, Equalizer	1
03	20P1857D636	· SCREW, Dr Shk Hex Hd 1-1/4-7UNC x 14 in	1
04	20Q289D80	· NUT, Hex 1-1/4-7UNC	1
05	2203V090	· PIN, Cotter 1/4 x 3 in	1
06	2203V065	· PIN, Cotter 3/16 x 1-1/4 in	4
07	19F52D24	· PIN, Drilled	2
08	16P7387D1	· BRACKET, Bumper	1
09	16Z143D17	· BUMPER, Boom	1



GUIDE ASSEMBLY, HOIST CABLE

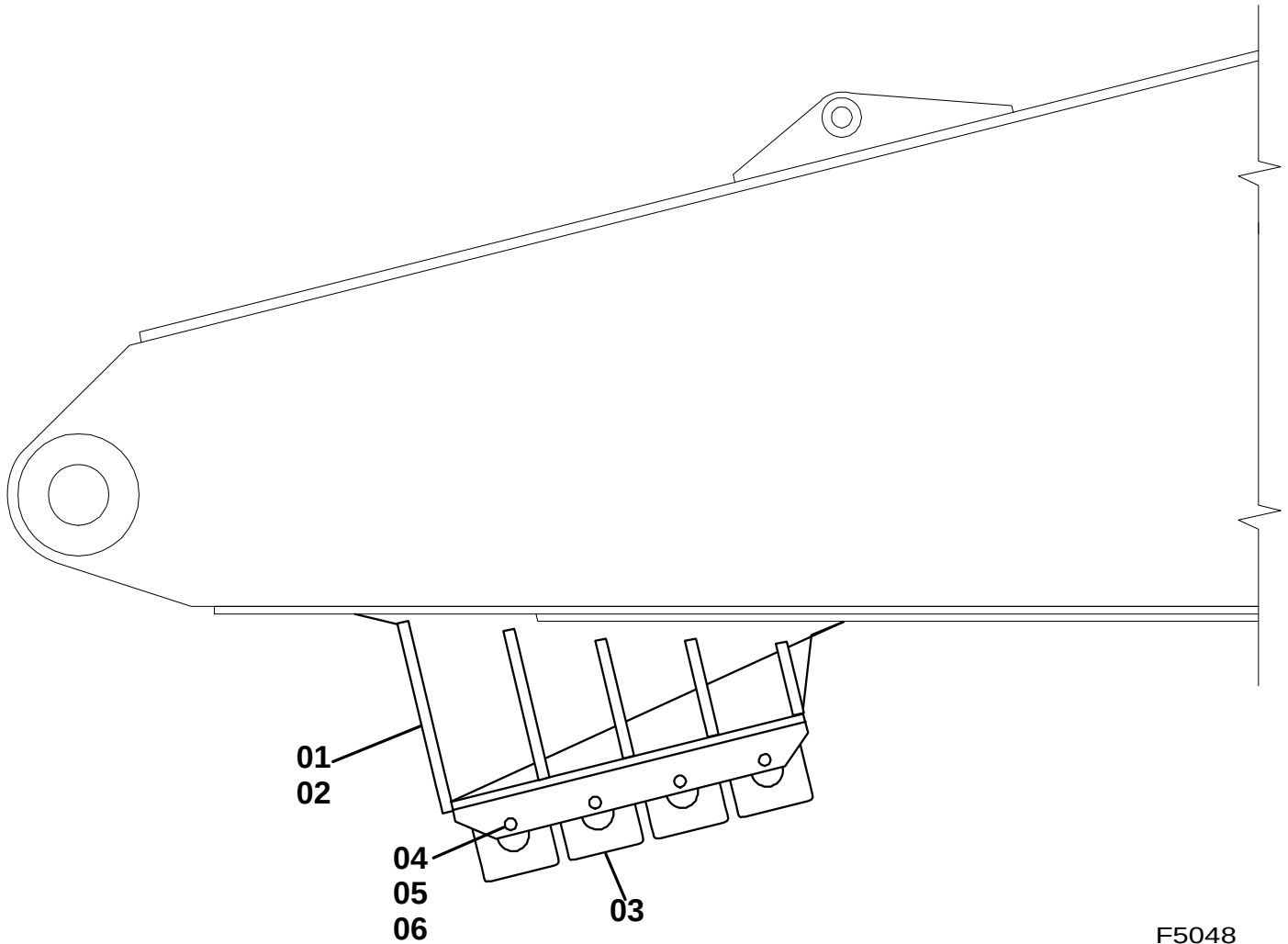


GUIDE ASSEMBLY, HOIST CABLE

REF	PART NO.	DESCRIPTION	QTY
	R3006F1	GUIDE ASSEMBLY, HOIST CABLE	
01	16Z709	· LINER, Guide	1
02	R3007D1	· GUIDE, Hoist cable	1
03	32Z2536D2	· TAPE, 2 x 12 in.	4
04	20Q260D449	· SCREW, Hex hd cap 3/4 -10 UNC x 2-1/4 in.	4
05	16T9345	· PLATE, Mounting	2
06	3631V012	· WASHER, Flat	4
07	20Z716D20	· NUT, Self locking 3/4 -10 UNC	4
08	20Z2118D3	· T-BOLT, 3/4 -10 UNC x 4-1/2 in.	7
09	R3005D1	· BRACE, Hoist cable guide	1
10	16T9344D1	· PLATE, Mounting	1



BUMPER, BOOM



F5048



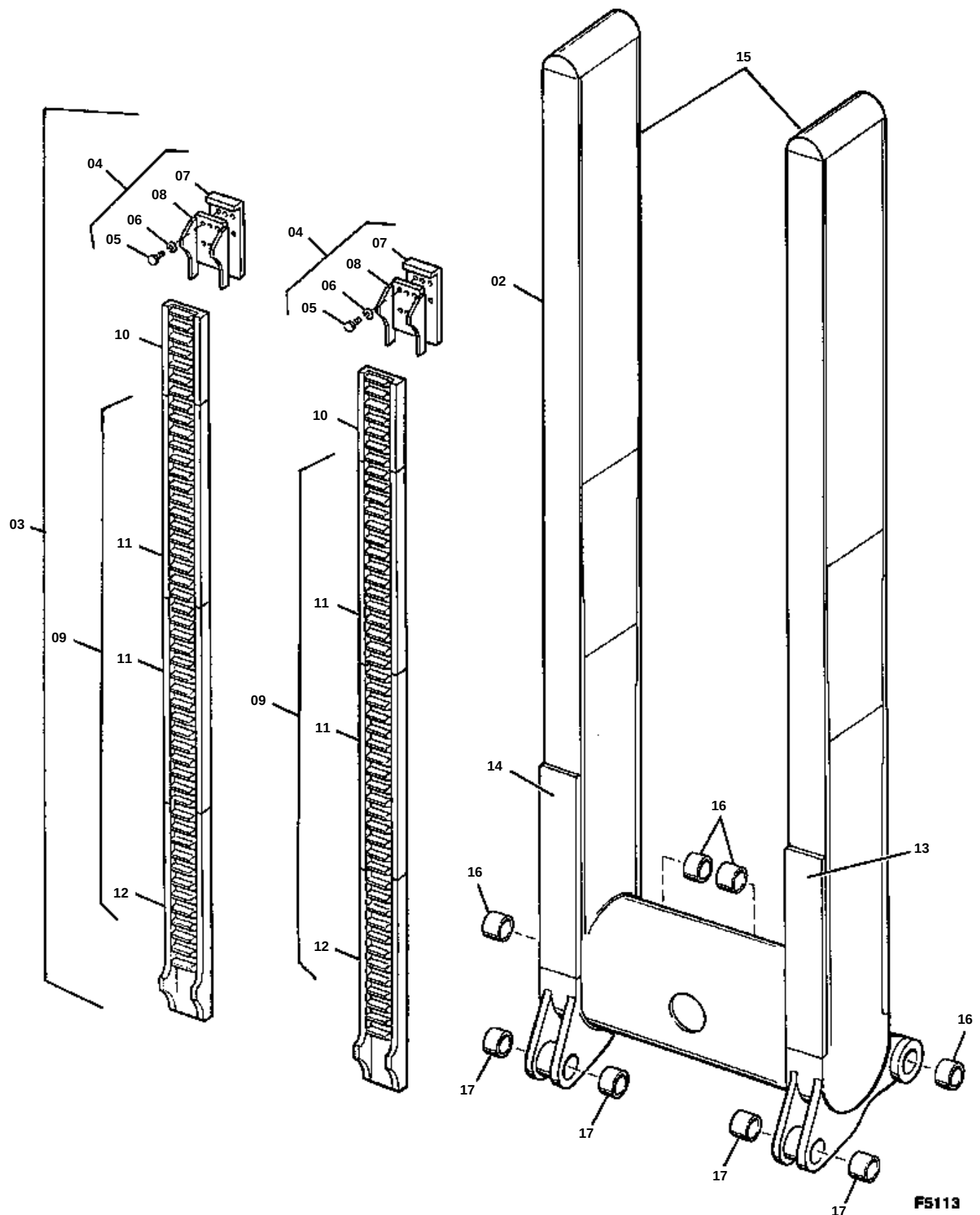
Machine
Serial Number: **4184**

BUMPER, BOOM

REF	PART NO.	DESCRIPTION	QTY
	R5732F2	BUMPER, BOOM	
01	R27200D1	· BRACKET, Right hand	1
02	R27200D2	· BRACKET, Left hand	1
03	16Z587D5	· BUMPER, Boom	8
04	19T6066D4	· PIN	8
05	3644V085	· WASHER, Plain 2 in	8
06	2201V145	· PIN, Cotter	8



HANDLE, DIPPER



F5113



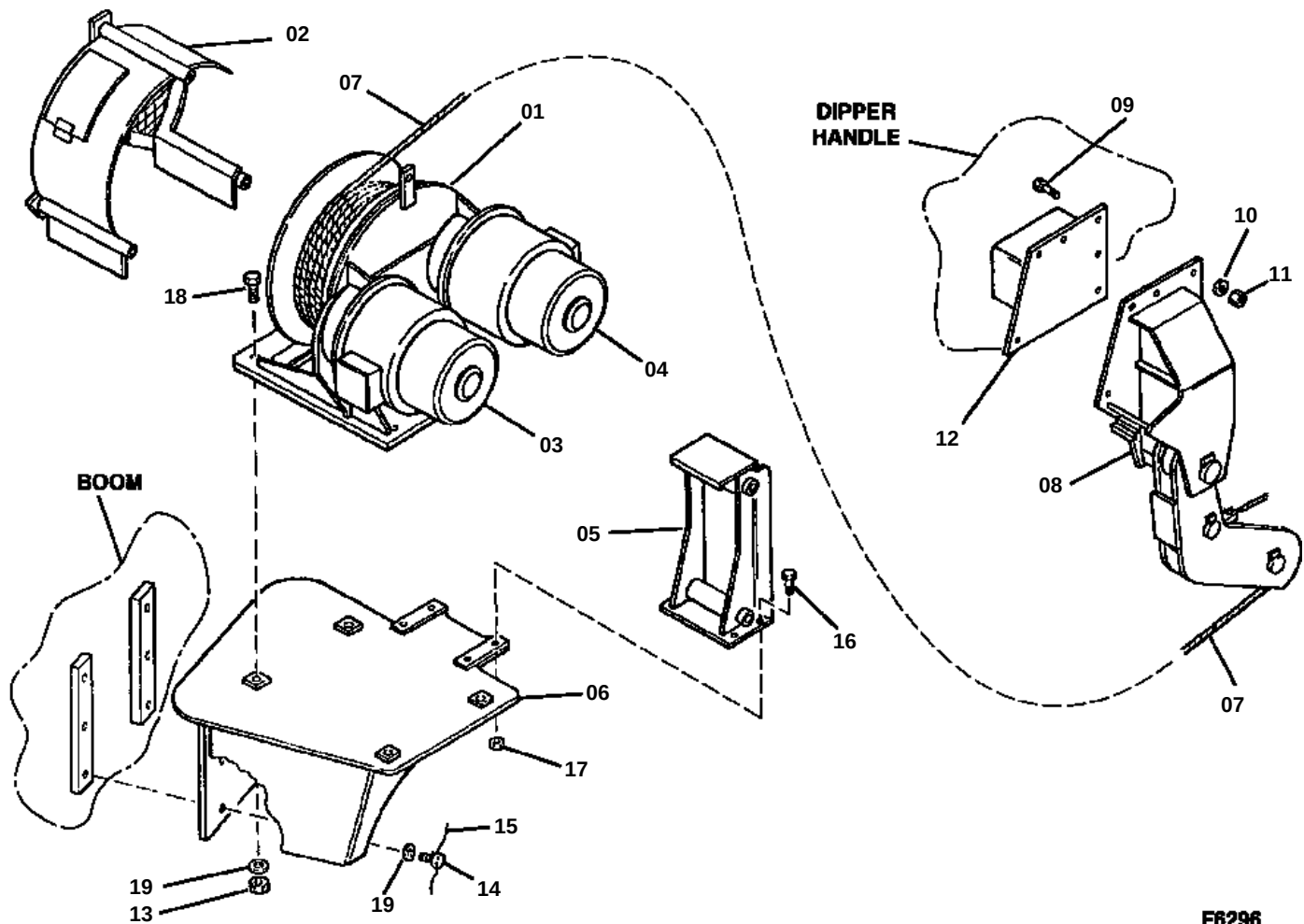
Machine Serial Number: **4184**

HANDLE, DIPPER

REF	PART NO.	DESCRIPTION	QTY
	R2254F1	HANDLE, DIPPER	
01	R2254D4	· HANDLE, Dipper	1
02	R2254D1	· · WELDMENT, Dipper handle	1
03	R2254D3	· · RACK MATERIAL	1
04	11J3780F1	· · · GREENHORN ASSEMBLY	2
05	20Q259D613	· · · · SCREW, Hex Hd Cap 1-1/4-7UNC x 3 in	6
06	3615V019	· · · · WASHER, Lock 1-1/4 in	6
07	16P6976	· · · · PLATE, Greenhorn Mounting	1
08	11J3780	· · · · GREENHORN, Rear	1
09	1J348D1	· · · RACK ASSEMBLY	2
10	701J31D3	· · · · RACK SECTION, Back	1
11	701J31D1	· · · · RACK SECTION, Center	2
12	701J31D2	· · · · RACK SECTION, Front	1
13	R3390D1	· · · PLATE, Rack Termination	1
14	R3390D2	· · · PLATE, Rack Termination	1
15	R3141D1	· · · CAP, Rear handle	2
16	5P292D9	· BUSHING	4
17	5P294D2	· BUSHING	4



DIPPER TRIP ASSEMBLY



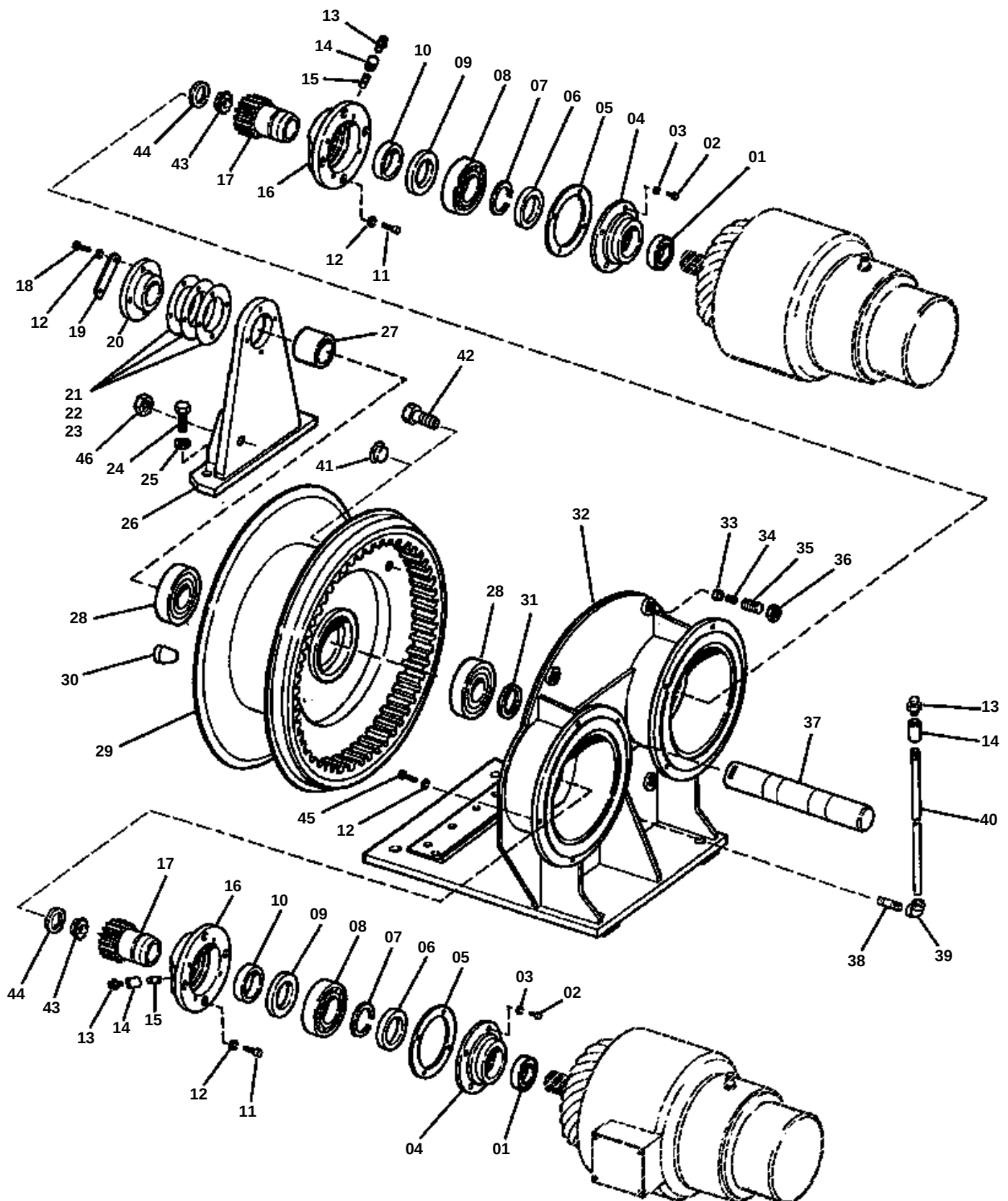
F6296

DIPPER TRIP ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R11294F4	DIPPER TRIP ASSEMBLY		
01	100J5518F3	• DRUM/MOTOR ASSEMBLY	1	5-12
02	R18445F1	• GUARD, Trip Drum	1	5-13
03	EBM734F1E	• TRIP MOTOR, Form E	1	11-18
04	EBM734F1A	• TRIP MOTOR, Form A	1	11-17
05	R23011F1	• FAIRLEAD, Dipper	1	5-14
06	R12305D1	• BRACKET, Trip Drum and Motors Mtg.	1	
07		CABLE, Dipper Trip (See Cables, Attachment)	1	5-18
		(NOTE: Trip Cable is not included with Dipper Trip Assembly)		
08	R17257F1	• LEVER ASSEMBLY	1	5-15
09	20Q325D681	• SCREW, Hex Hd Cap 1-1/2-6UNC x 3-1/2 in GR8	6	
10	18Z694D14	• WASHER, Hardened 1-1/2 in	12	
11	20Q270D96	• NUT, Hex 1-1/2-6UNC	6	
12	R10955D1	• BRACKET, Trip Lever Mtg.	1	
13	20Q278D64	• NUT, Heavy Hex 1-8UNC	4	
14	20P1871D537	• SCREW, Drill Hex Hd Cap 1-8UNC x 2-1/2 in GR8	6	
15	017960067	• WIRE, Tie #8 ga. x (.1620) 84 lg	AR	
16	20Q260D450	• SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	4	
17	20Q270D48	• NUT, Hex 3/4-10UNC	4	
18	20Q324D542	• SCREW, Hex Hd Cap 1-8UNC x 3-3/4 in GR8	4	
19	18Z694D10	• WASHER, Hardened 1 in	AR	



DRUM, DIPPER TRIP



F1857A



DRUM, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
	100J5518F3	DRUM, DIPPER TRIP	
01	25Z519D8	• BEARING, Ball	2
02	0630V014	• SCREW, Soc Hd Cap 1/4-20UNC x 3/4 in	8
03	3616V007	• WASHER, Lock 1/4 in	8
04	25P1239	• RETAINER, Bearing	2
05	20T7825	• GASKET	2
06	18Z2555D9	• SEAL, Dual lip	2
07	18Z2147D125	• RING, Snap	2
08	25Z356D11	• BEARING, Roller	2
09	18Z2554D173	• SEAL	2
10	18T8858	• SPACER	2
11	0630V045	• SCREW, Soc Hd Cap 3/8-16UNC x 1 in	8
12	3616V009	• WASHER, Lock 3/8 in	22
13	44Z1D5	• FITTING, Button Hd 1/8 in	3
14	2408V001	• COUPLING, Pipe 1/8 in	3
15	2419V003	• NIPPLE, Pipe 1/8 x 1/4 in	2
16	25P979	• CAPSULE, Bearing	2
17	R23135D1	• PINION	2
18	20Q260D260	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	4
19	18T16845	• PLATE, Keeper	1
20	25P1247	• RETAINER, Shaft	1
21	20Z612D359	• SHIM, 005	AR
22	20Z612D360	• SHIM, 0075	AR
23	20Z612D361	• SHIM, 020	AR
24	20Q260D447	• SCREW, Hex Hd Cap 3/4-10UNC x 1-3/4 in	6
25	3616V015	• WASHER, Lock 3/4 in	6
26	16J1229	• SIDESTAND	1
27	18T16819	• SPACER	1
28	25Z354D13	• BEARING, Ball	2
29	R12531D1	• DRUM	1
30	8P623	• WEDGE	1
31	18T10429	• COLLAR	1
32	16J1232	• BASE	1
33		NOT USED	
34		NOT USED	
35	0682V124	• SCREW, Hex Sl Cap 7/8-9UNC x 1-1/2 in	4
36	20Q272D56	• NUT, Jam 7/8-9UNC	4



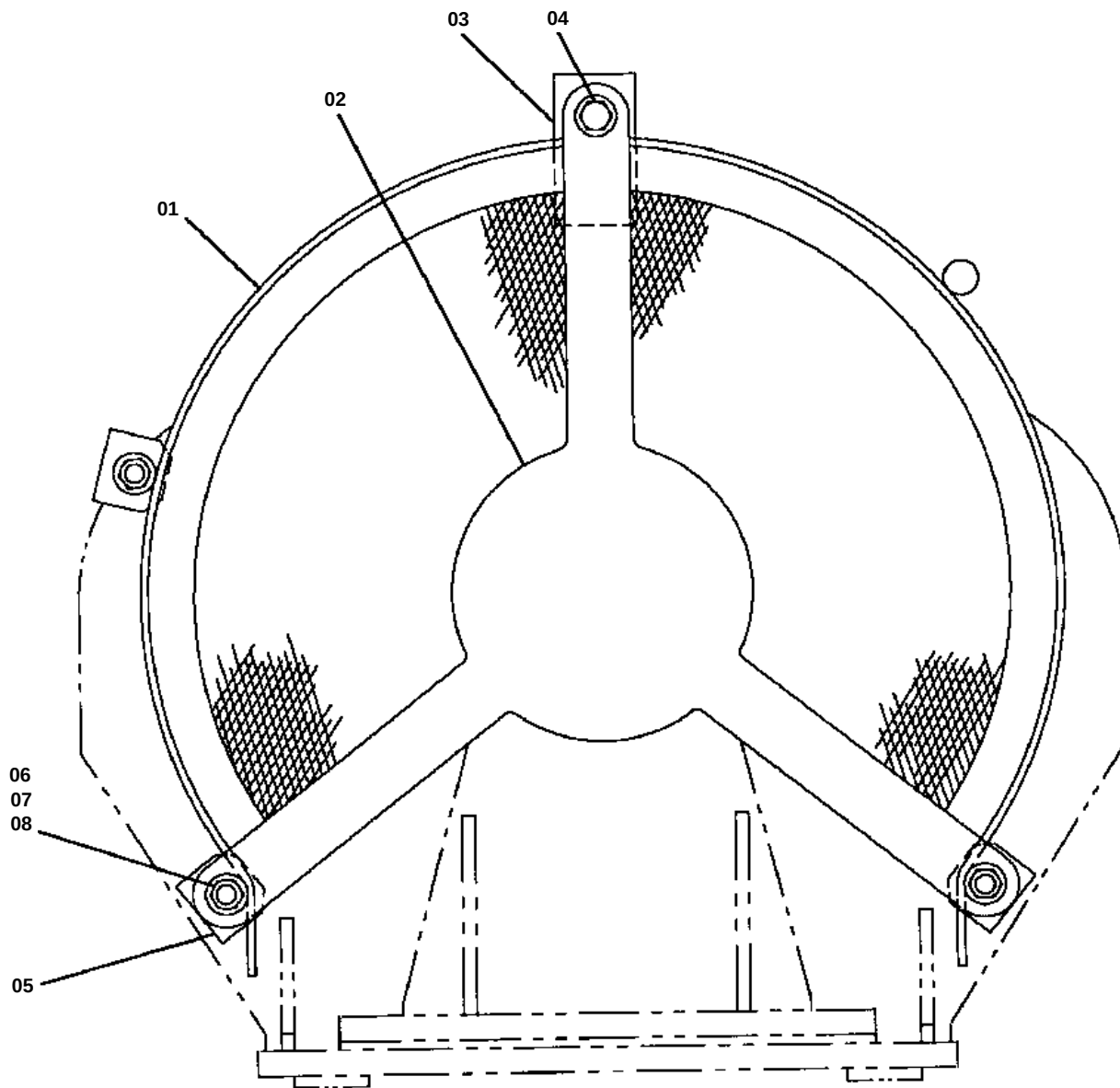
Machine
Serial Number: **4184**

DRUM, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
37	10N691	· SHAFT, Drum	1
38	2419V001	· NIPPLE, Pipe 1/8-27 NPT	1
39	2414V016	· ELBOW, 1/8 90 deg	1
40	18P1060D7	· NIPPLE, Pipe	1
41	R23243D1	· PLUG, Cap	1
42	R19551D1	· BOLT, Motor Puller	1
43	R19550D1	· RETAINER, Motor Puller	2
44	18Z2082D181	· RING, Snap	2
45	20Q260D258	· SCREW, Hex Hd Cap 3/8-16UNC x 1 in	10
46	20Q270D64	· NUT, Motor Puller Storage	1



CABLE GUARD ASSEMBLY, DIPPER TRIP



F3200



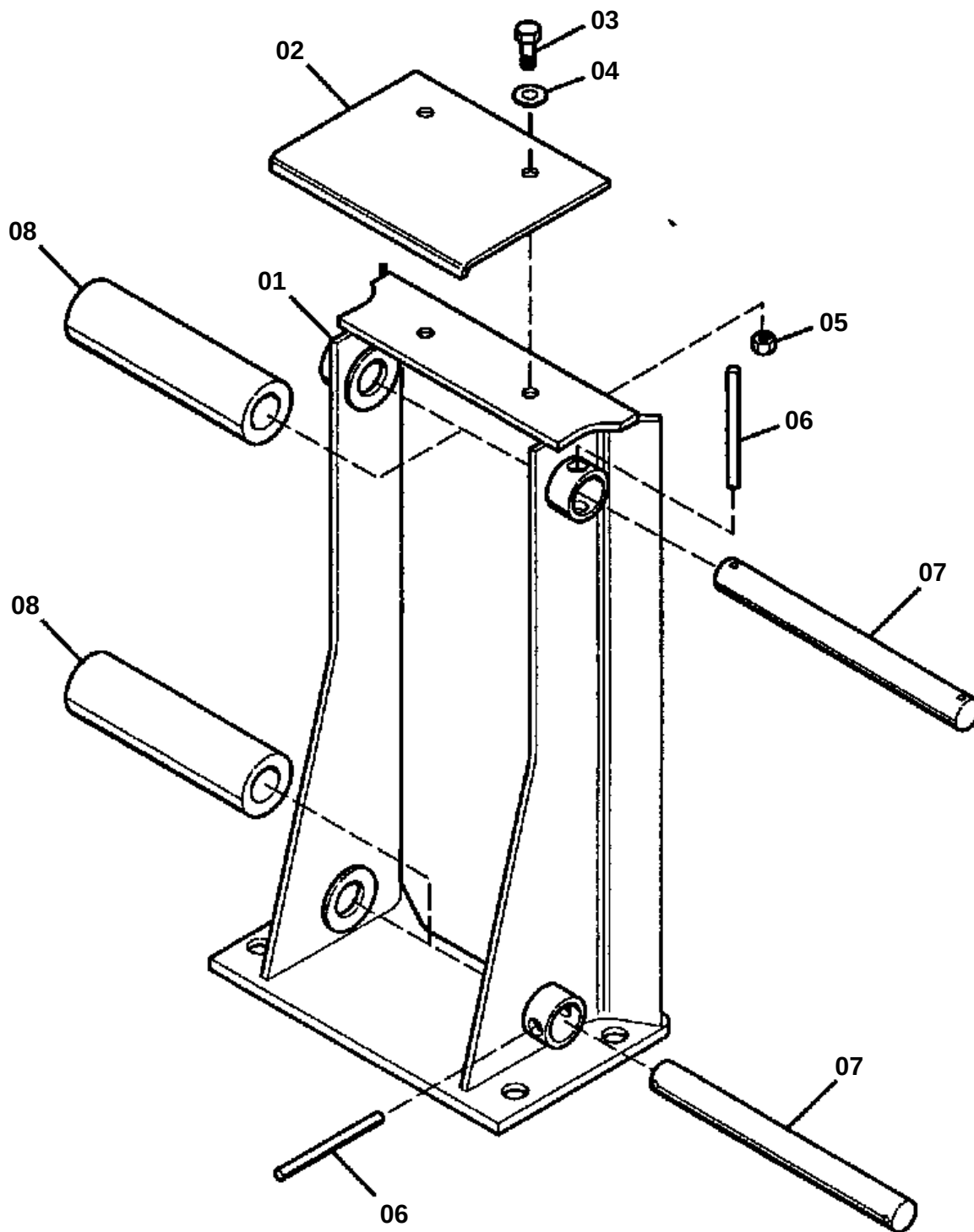
Machine
Serial Number: **4184**

CABLE GUARD ASSEMBLY, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
	R18445F1	CABLE GUARD ASSEMBLY	
01	R18362D1	• CABLE Guard	1
02	14J1816D1	• COVER, Guard	1
03	16T8337	• MOUNTING, Plate	1
04	20Q260D401	• BOLT, 5/8-11UNC x 1-1/4 in	1
05	18P5696D3	• ROD	3
06	20Q270D40	• NUT, Hex 5/8-11UNC	4
07	3616V013	• WASHER, Lock 5/8 in MPC	5
08	3631V011	• WASHER, Plain 5/8 in MPC	5



FAIRLEAD, DIPPER TRIP



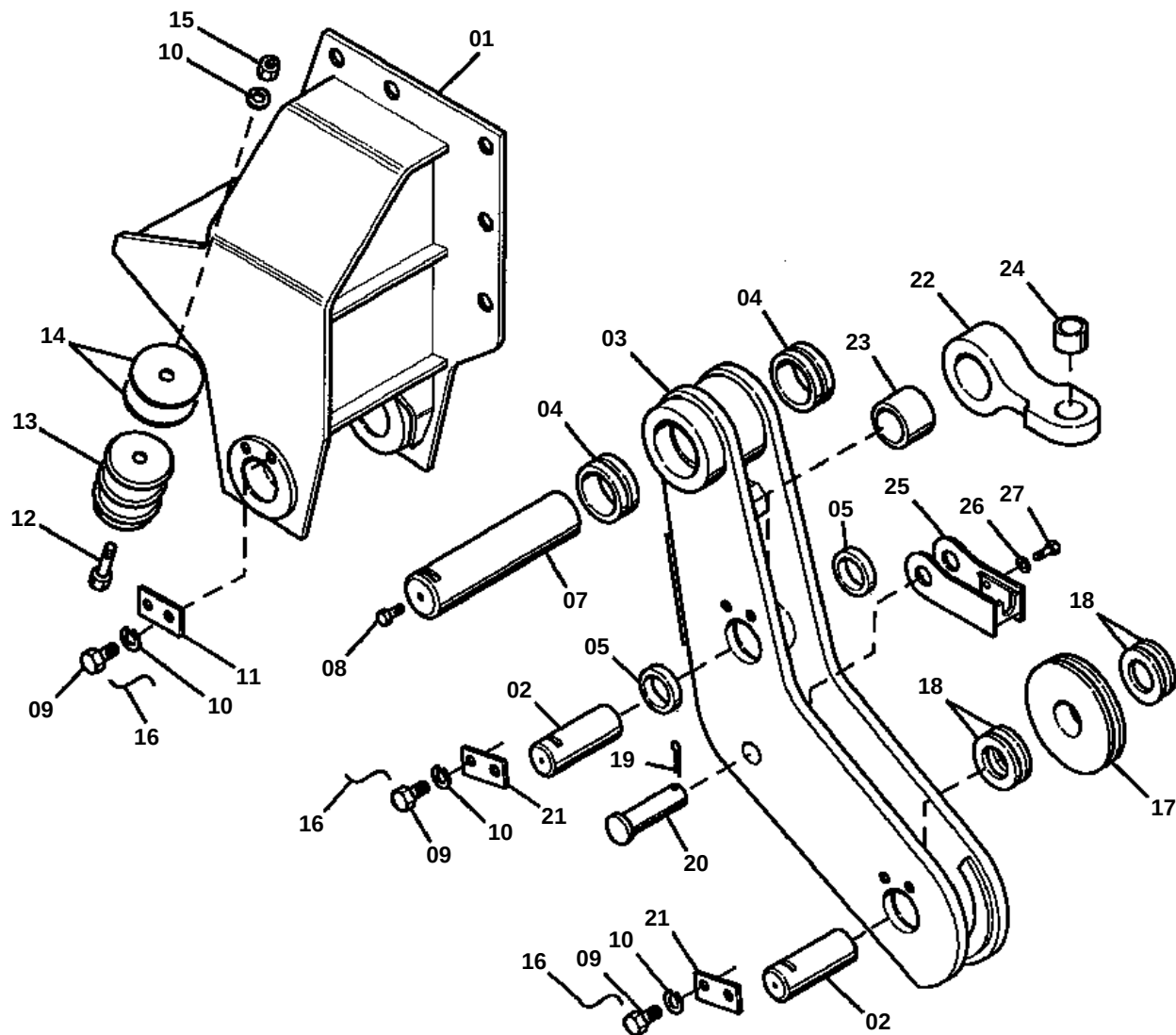
F6294

FAIRLEAD, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
	R23011F1	FAIRLEAD, Dipper Trip	
01	R23011D1	• BRACKET, Fairlead	1
02	13-R23011	• COVER, Fairlead	1
03	20Q260D258	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	2
04	3632V004	• WASHER, Plain 3/8	2
05	20Q270D24	• NUT, 3/8-16UNC	2
06	10-R23011	• RETAINER, Pin 1/4 in Dia x 4-1/2 in	4
07	11-R23011	• PIN, Roller 1 in Dia x 10-29/64 in	2
08	12-R23011	• ROLLER, Fairlead	2



LEVER ASSEMBLY, DIPPER TRIP



F6293

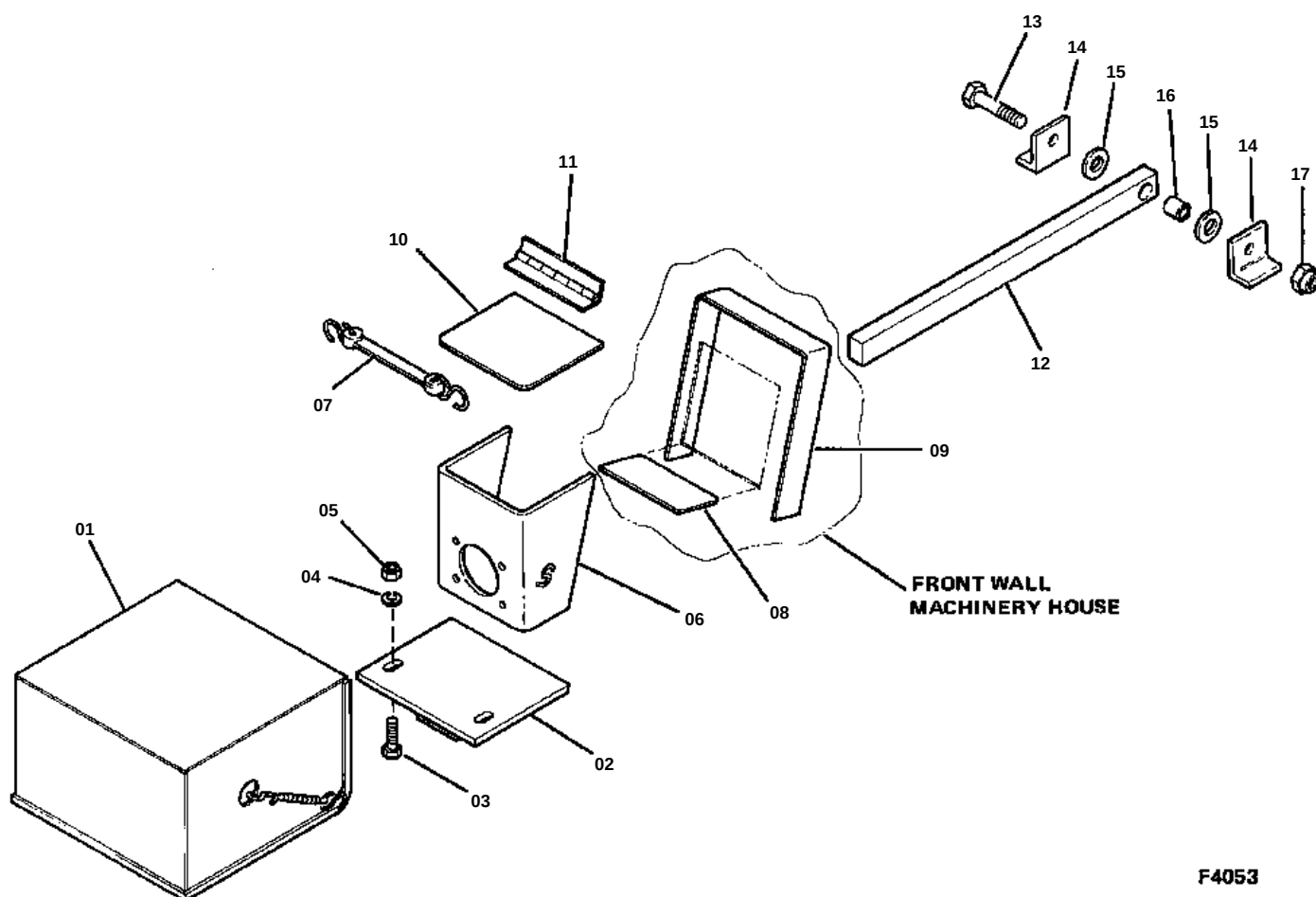


LEVER ASSEMBLY, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
	R17257F1	LEVER ASSEMBLY, DIPPER TRIP	
01	R11087D1	· BRACKET, Trip Lever Mtg.	1
02	R17405F1	· PIN, Pivot Arm/Sheave	2
03	R17406F1	· ARM ASSEMBLY, Banjo	1
04	5P346D1	· · BUSHING, Banjo Arm Pin	2
05	R17170D1	· · BUSHING, Sheave Pin	2
07	19P877D1	· PIN, Banjo Arm	1
08	44Z1D5	· LUBE, Fitting	1
09	20P1858D447	· SCREW, Drill Hd Cap 3/4-10UNC x 1-3/4 in	6
10	3616V015	· WASHER, Lock 3/4 in MPC	7
11	18T13	· PLATE, Keeper	1
12	20Q260D453	· SCREW, Hex Hd Cap 3/4-10UNC x 3-1/4 in	1
13	16Z862	· BUMPER	1
14	18P8880D1	· SPACER	2
15	20Q270D48	· NUT, Hex 3/4-10UNC	1
16	017960063	· TIE WIRE, #10 ga x 12 in lg	AR
17	R17120D1	· SHEAVE, Rope	1
18	18Z694D20	· WASHER, Hardened 3 in I.D.	4
19	2203V090	· PIN, Cotter	1
20	R22680D1	· PIN, Socket Anchor	1
21	R17407D1	· PLATE, Keeper	2
22	R22530F1	· ARM, Pivot	1
23	R17170D2	· · BUSHING, Pivot Arm - Pin End	1
24	5P349D4	· · BUSHING, Pivot Arm - Shackle End	1
25	R22556D1	· SOCKET, Rope	1
26	18Z3087D4	· · WASHER, Lock 3/8	1
27	20Q260D260	· · SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	1



INSTALLATION, BOOM LIMIT SWITCH

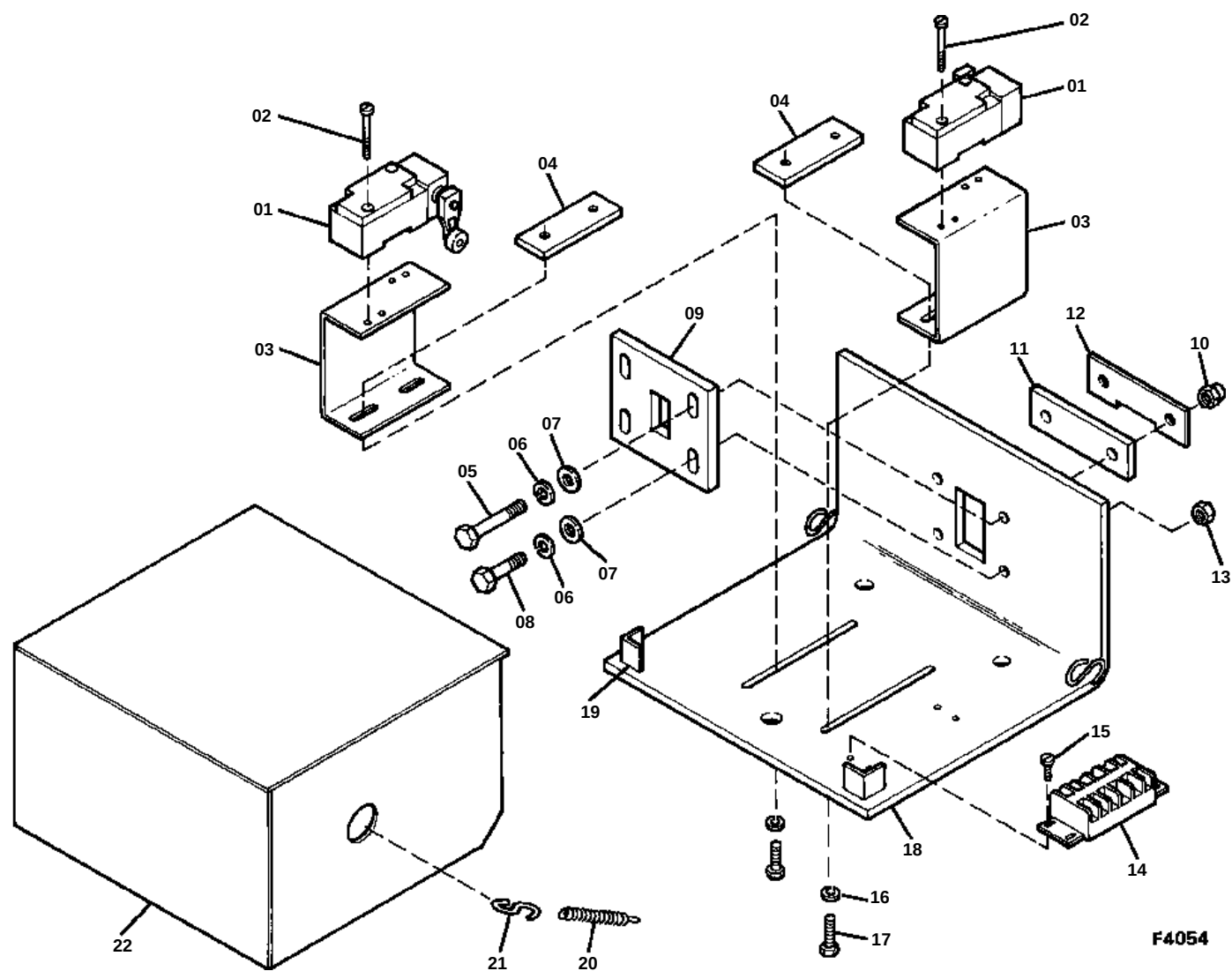


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INSTALLATION, BOOM LIMIT SWITCH

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LIMIT SWITCH

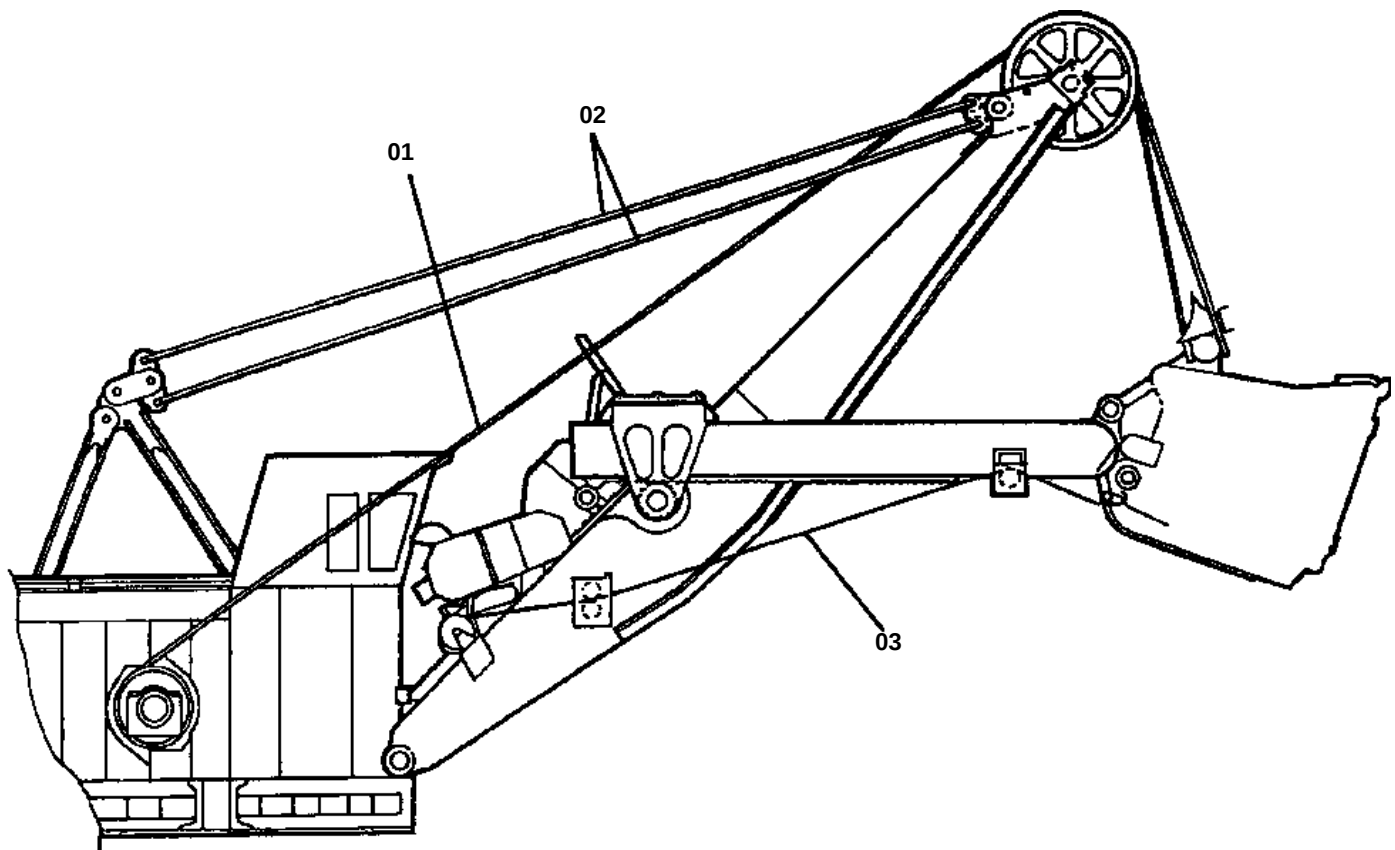


LIMIT SWITCH

REF	PART NO.	DESCRIPTION	QTY
	979J232F1	LIMIT SWITCH	
01	79Q1713D1	• SWITCH, Limit	2
02	0862V106	• SCREW, Pan hd mach, #10 x 2 in.	4
03	16N3648D1	• BRACKET, Mounting	2
04	718N233D175	• PLATE, Mounting	2
05	20Q260D265	• SCREW, Hex hd. 3/8 -16 x 2-1/2 in.	2
06	3616V009	• WASHER, Lock, 3/8 in.	4
07	3632V004	• WASHER, 3/8 in.	4
08	20Q260D262	• SCREW, Hex hd cap, 3/8 -16 x 1-3/4 in.	2
09	18P8704D1	• PLATE, Bushing	1
10	20H1617D34	• LOCKNUT, 3/8 in.	2
11	18P8706D2	• RETAINER, Rubber	1
12	18P8705D1	• RETAINER	1
13	20Q270D24	• NUT, 3/8 in. -16	2
14	79Z684D6	• BLOCK, Terminal	1
15	0862V099	• SCREW, Pan hd, #10 x 3/4 in.	4
16	3616V007	• WASHER, Lock	4
17	20Q260D194	• SCREW, Hex hd cap, 1/4 -20 x 1 in.	4
18	18N2562D1	• BASE, Mounting	1
19	16-979J232	• ANGLE	2
20	17Z685	• SPRING, Tension	2
21	8Z19D5	• S-HOOK	4
22	14N2914D1	• COVER	1



CABLES ATTACHMENT





Machine
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CABLES ATTACHMENT

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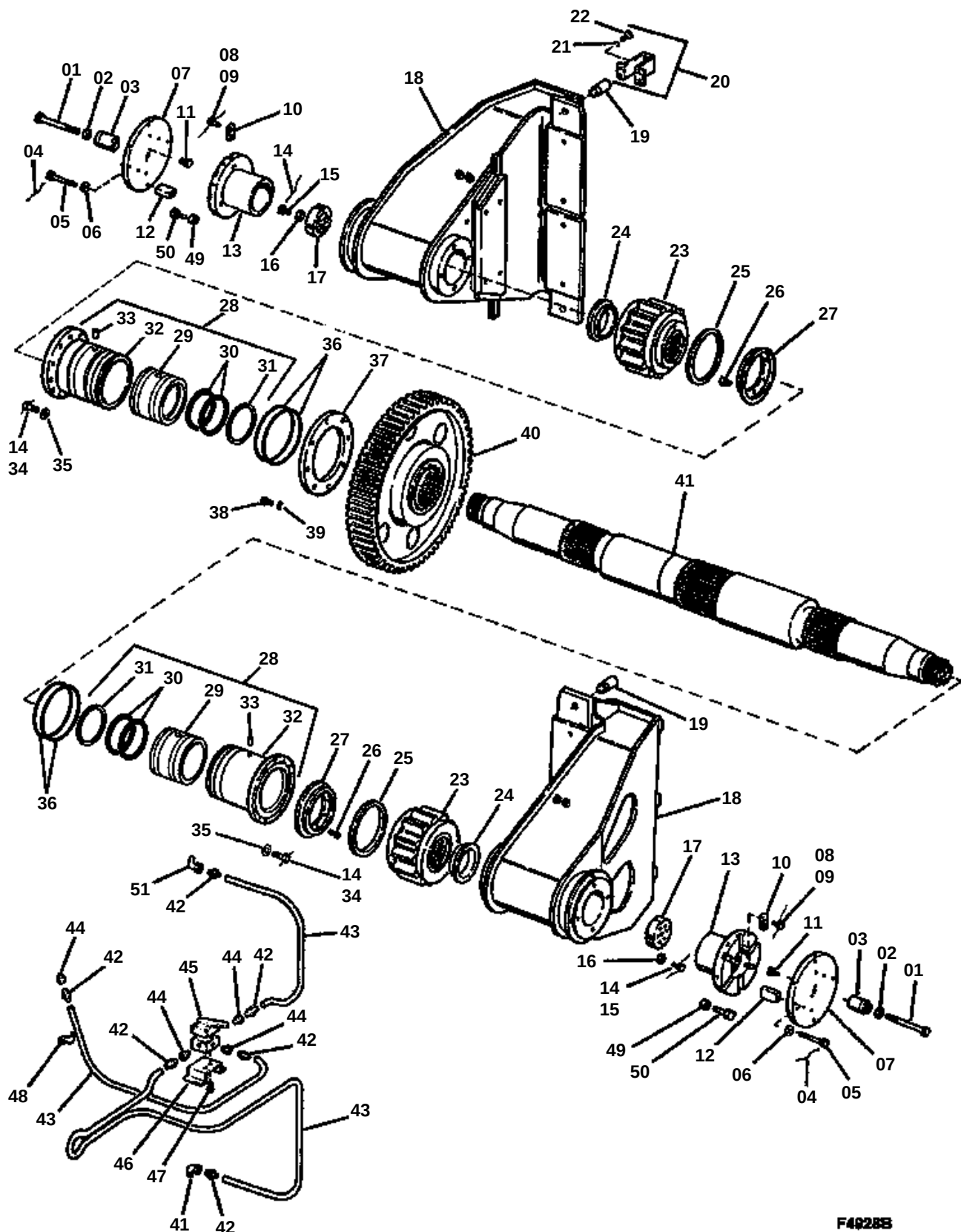


Group 6 - Crowd System

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SHAFT, SHIPPER



F49285



SHAFT, SHIPPER

REF	PART NO.	DESCRIPTION	QTY	PAGE
--	R9288F1	SHAFT, SHIPPER		
01	20T10056	• SCREW, Hex Hd Cap 1-1/4-7UNC x 16 in (See Note)	2	
02	3632V013	• WASHER, Plain 1/4 in (See Note)	2	
03	21Z1048	• RAM, Hydraulic (See Note)	2	
04	P&H Spec 179	• WIRE, Tie #10 x 150 in	AR	
05	20P1858D510	• SCREW, Drill Hd Cap 7/8-9UNC x 8-1/2 in	8	
06	18Z694D9	• WASHER, Hardened 7/8 in	8	
07	18N2503	• PLATE, Mounting	2	
08	P&H Spec 179	• WIRE, Tie #12 x 84 in	AR	
09	20P1858D492	• SCREW, Drill Hd Cap 7/8-9UNC x 2 in	8	
10	R4149D1	• KEY, Locking	4	
11	20Q260D263	• SCREW, Hex Hd Cap 3/8-16UNC x 2 in	4	
12	18P8720D1	• SPACER	8	
13	R4147D1	• RETAINER, Sleeve	2	
14	P&H Spec 179	• WIRE, Tie #6 x 260 in	AR	
15	20P1872D615	• SCREW, Drill Hd Cap 1-1/4-7UNC x 4 in	12	
16	18Z694D12	• WASHER, Hardened 1-1/4 in	12	
17	R4148D1	• PLATE, End	2	
18	R9552F1	• BLOCK, Saddle	2	6-2
19	21Z1046	• RAM, Hydraulic	4	
20	R3787F1	• GUARD, Cylinder	4	
21	20Q260D256	• • SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in	4	
22	3616V009	• • WASHER, Lock 3/8 in	4	
23	1J378D1F2	• PINION	2	
24	18T17829	• • SPACER	1	
25	18Z3344D27	• SEAL, V-Ring	2	
26	R43027D1	• SCREW, Self Locking 7/8-9UNC x 2 in	16	
27	R3990D1	• WASHER, Thrust	2	
28	R4152F2	• RETAINER ASSEMBLY	2	
29	R51695D1	• • BUSHING	1	
30	18Z951D8	• • SEAL, Oil	2	
31	18Z3638D9	• • RING, Snap - Spiral	1	
32	R4151D2	• • RETAINER, Bushing	1	
33	19H1951D52	• • PIN, Dowel 1 x 2-1/2 in	3	
34	20P1859D683	• SCREW, Drill Hd Cap 1-1/2-6UNC x 4 in	24	
35	18Z694D14	• WASHER, Hardened 1-1/2 in	24	
36	45Z91D190	• O-RING	4	



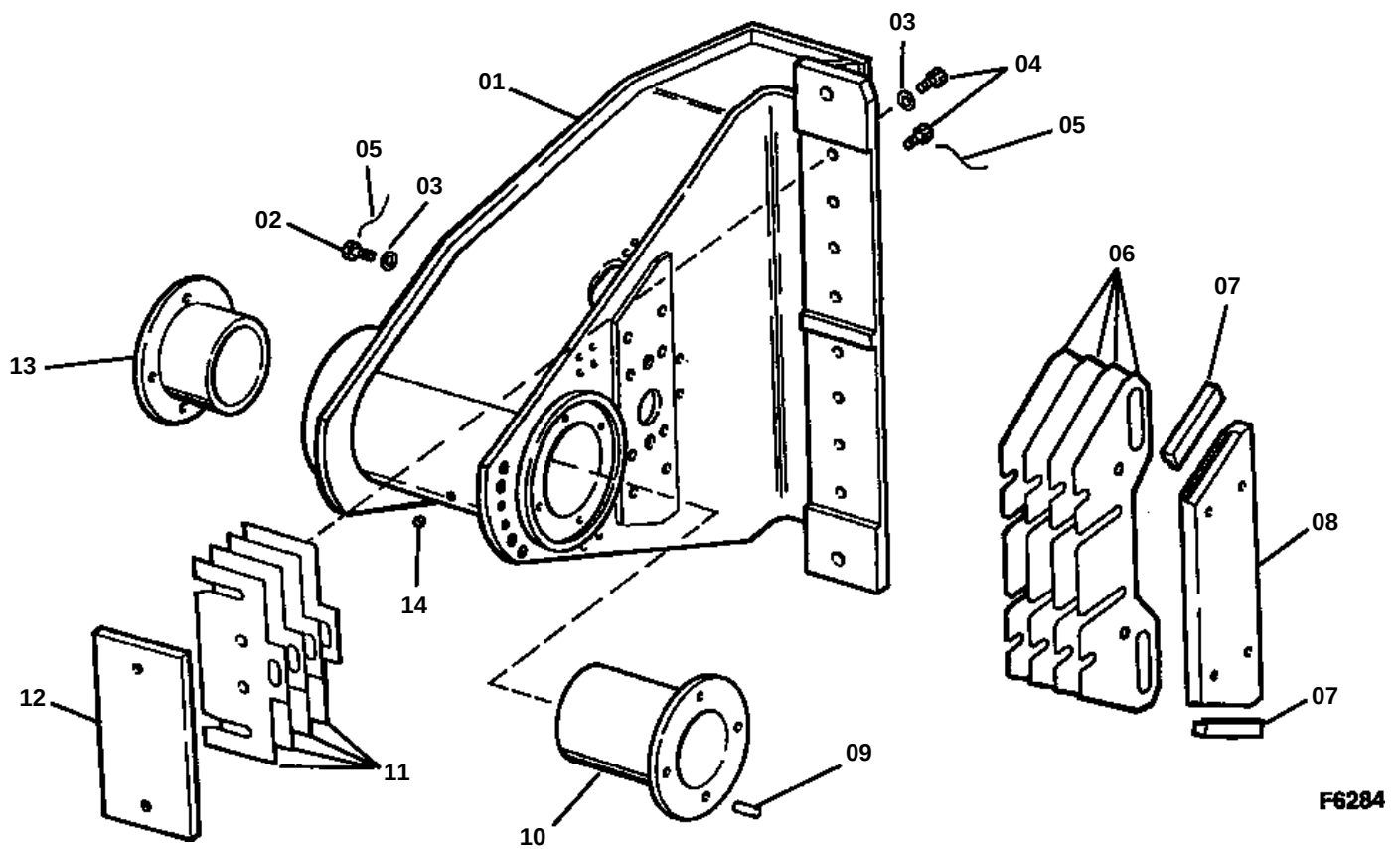
SHAFT, SHIPPER

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	18P4290	• WASHER, Thrust	1	
38	0630V100	• SCREW, Hex Soc Hd Cap 5/8-11UNRC x 1-1/2 in	8	
39	3643V015	• WASHER, Lock 5/8 in - Heavy Duty	8	
40	R23816D1	• GEAR	1	
41	R3989D1	• SHAFT, Shipper	1	
42	44Q7D9	• HOSE END, JIC/Swivel	12	
43	P&H Spec 4427	• HOSE, High Pressure 3/8 in I.D. x 580 in	AR	
44	44Z590D9	• ADAPTER, JIC Male Pipe	8	
45	36Q550D1	• VALVE, Control (See Note)	2	
46	16P7189D1	• BRACKET, Mounting	2	
47	0630V014	• SCREW, Hex Soc Hd Cap 1/4-20UNRC x 3/4 in	4	
48	32T727D1	• CLAMP	20	
49	18P935D40	• SPACER, Pipe - 1 in.	8	
50	20Q260D492	• SCREW, hex hd cap - 7/8 in. -9UNC x 2 in.	8	
51	44Z591D9	• ELBOW, JIC Male Pipe 90 deg.	4	
--	14P3470D1	• GUARD, Splash (Not Shown)	1	

NOTE: Items stored inside saddle blocks.



SADDLE BLOCK



F6284



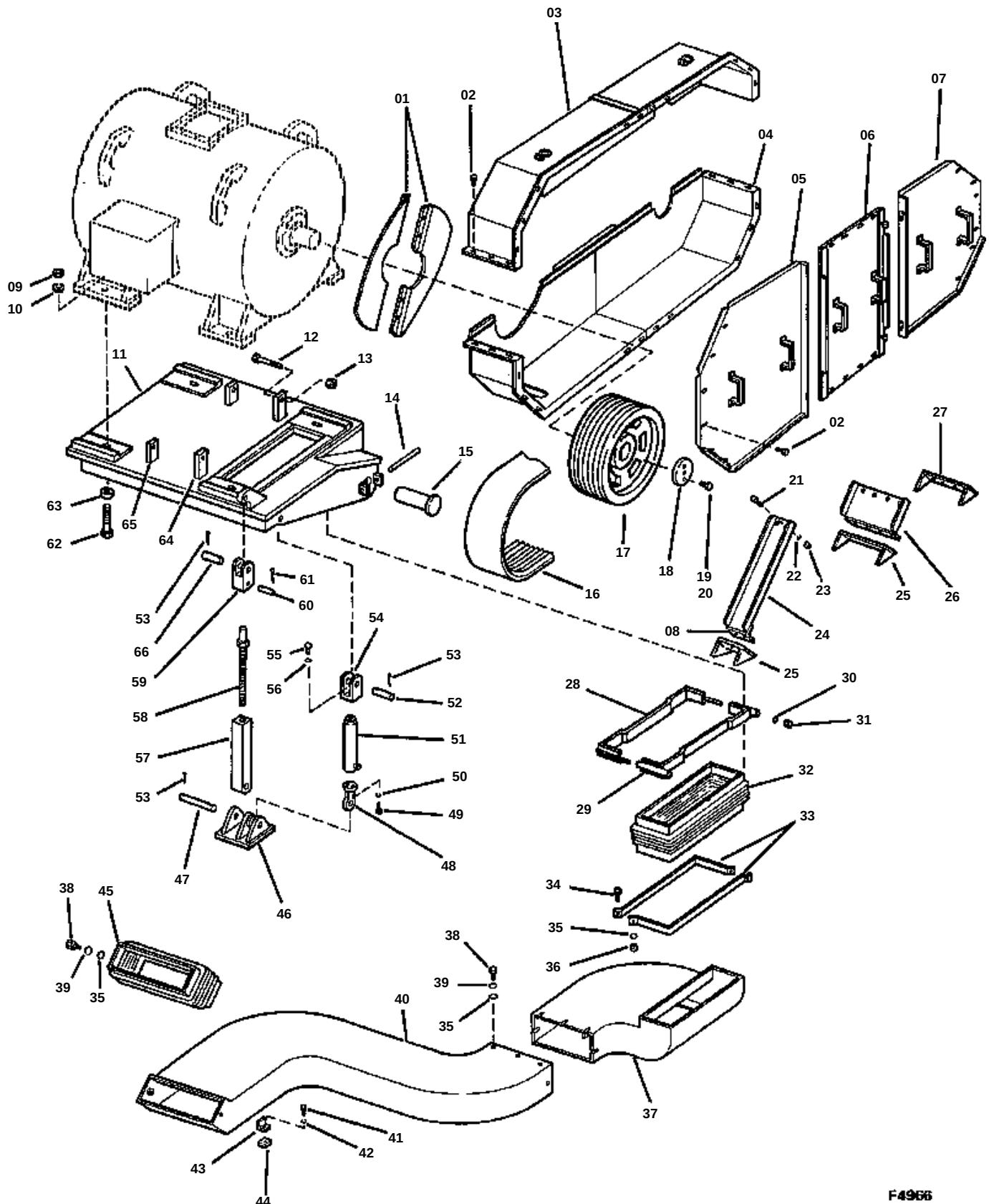
Machine
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SADDLE BLOCK

REF	PART NO.	DESCRIPTION	QTY
--	R9552F1	SADDLE BLOCK	
01	R9128D1	· BLOCK, Saddle	1
02	20P1859D681	· SCREW, Drilled Hex Hd Cap 1-1/2--6UNC x 3-1/2 in	8
03	17Z286D45	· WASHER, Belleville 1-1/2 in	8
04	20P1859D682	· SCREW, Drilled Hex Hd Cap 1-1/2--6UNC x 3-3/4 in	8
05	017960071	· WIRE, Tie	AR
06	20P1909	· SHIM, Vertical	6
07	18P8602	· BLOCK, Shear	2
08	33P247D2	· PLATE, Wear, Vertical	1
09	19H1951D50	· PIN, Dowel 3/4 dia x 1-1/2 in	8
10	5J8D1	· BUSHING, Inboard	1
11	20P1979D1	· SHIM, Horizontal	10
12	33P249D1	· PLATE, Wear, Horizontal	2
13	5J9D1	· BUSHING, Outboard	1
14	44Z992D5	· PLUG, Protective	3



CROWD DRIVE



F4966



CROWD DRIVE

REF	PART NO.	DESCRIPTION	QTY
	R1877F1	CROWD DRIVE	
01	14N2858	· PLATE, Adjusting Slide	2
02	20Z1703D69	· SCREW, Flanged Lock 3/8-16UNC x 1 in	31
03	14J1712	· CASE, Belt - Top	1
04	14J1713	· CASE, Belt - Bottom	1
05	14J1715	· COVER, Crowd Belt	1
06	14J1714F1	· COVER - Center	1
07	14J1716	· COVER, Crowd Belt	1
08	16T5381	· ANGLE, Support	2
09	20Q270D96	· NUT, Hex 1-1/2-6UNC	4
10	18Z694D14	· WASHER, Hardened 1-1/2 in	4
11	16J1493	· BASE, Crowd Motor	1
12	20H3169D270	· BOLT, Tap 1-8UNC x 6-1/2 in	4
13	20Q270D64	· NUT, Hex 1-8UNC	4
14	20-R1877F1	· ROUND, 1 in dia x 12 in	2
15	19T4994	· PIN, Base Support	2
16	R17893D1	· BAND SET, Power (Includes 10 matched bands)	1
17	R1798D1	· SHEAVE, Belt	1
18	18P8492D5	· PLATE, Retainer	1
19	20P1858D449	· SCREW, Drill Hd Cap 3/4-10UNC x 2-1/4 in	3
20	017960063	· WIRE, Tie #10 x 2 ft	AR
21	20Q260D403	· SCREW, Hex Hd Cap 5/8-11UNC x 1-3/4 in	12
22	3643V015	· WASHER, Lock 5/8 in - Heavy Duty	12
23	20Q270D40	· NUT, Hex 5/8-11UNC	12
24	16T5384D2	· PLATE, Support	1
25	16T5377	· BRACKET, Support	2
26	16T5384D3	· PLATE, Support	1
27	16T5376	· BRACKET, Support	1
28	R1879D1	· HALF, Clamp - Male	1
29	R1880D1	· HALF, Clamp - Female	1
30	3632V004	· WASHER, Plain 3/8 in	2
31	20H1614D4	· NUT, Self locking 3/8-16UNC	2
32	14Q262	· EXPANSION DUCT, Motor	1
33	14P2967D3	· HALF, Clamp	2
34	20Q260D328	· SCREW, Hex Hd Cap 1/2-13UNC x 1-1/2 in	4
35	3631V009	· WASHER, Plain 1/2 in	15
36	20H1614D6	· NUT, Stop 1/2-13UNC	2

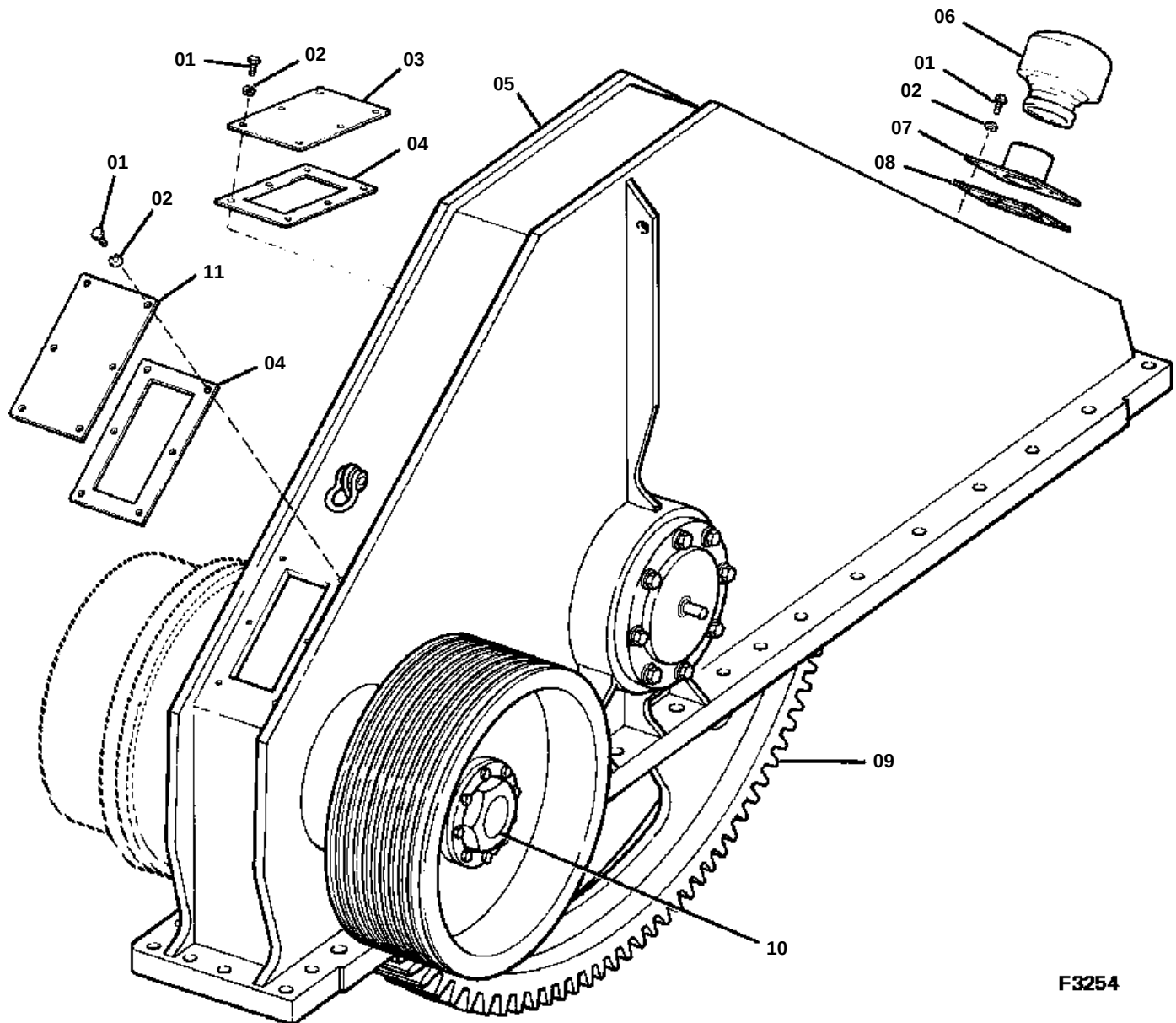


CROWD DRIVE

REF	PART NO.	DESCRIPTION	QTY
37	14J1719	• DUCT, Blower	1
38	20Q260D325	• SCREW, Hex Hd Cap 1/2-13UNC x 1 in	13
39	3643V013	• WASHER, Lock 1/2 in - Heavy Duty	13
40	14J1718	• DUCT, Blower	1
41	20Q260D255	• SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	8
42	3643V011	• WASHER, Lock 3/8 in - Heavy Duty	8
43	16T7658	• CLIP	8
44	16T4722	• PAD, Mounting	8
45	14Q136	• EXPANSION DUCT, Blower	1
46	16N3510	• BRACKET, Adjustable Cylinder	1
47	19F63D35	• PIN, Drilled 1-1/2 in dia x 10 in	1
48	20P1917	• ROD END, Hydraulic Cylinder	1
49	20Q260D260	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	2
50	18Z1732D5	• WASHER, Conical Lock 3/8 in	2
51	21Z1047	• CYLINDER, Hydraulic	1
52	19F63D15	• PIN, Drilled 1-1/2 in dia x 5 in	1
53	2203V102	• PIN, Cotter 5/16 x 2 in	6
54	6P2850	• CLEVIS, Hydraulic Cylinder	1
55	0630V150	• SCREW, Hex Soc Hd Cap 1-8UNRC x 2 in	1
56	18Z1732D10	• WASHER, Conical Lock 1 in	1
57	6P2851	• CLEVIS, Holding Rod	1
58	20P1975D1	• ROD, Threaded	1
59	6P2858D1	• CLEVIS, Holding Rod	1
60	19F54D62	• PIN, Drilled 3/4 in dia x 4-3/4 in	1
61	2203V065	• PIN, Cotter 3/16 x 1-1/4 in	2
62	20Q260D691	• SCREW, Hex Hd Cap 1-1/2-6UNC x 7-1/2 in	4
63	18T17620	• WASHER, Special	4
64	16P4932D6	• BLOCK, Adjusting	2
65	16P4932D3	• BLOCK, Adjusting	2
66	19F63D16	• PIN, Drilled 1-1/2 in dia x 5-1/4 in	1



GEAR CASE, CROWD



F3254



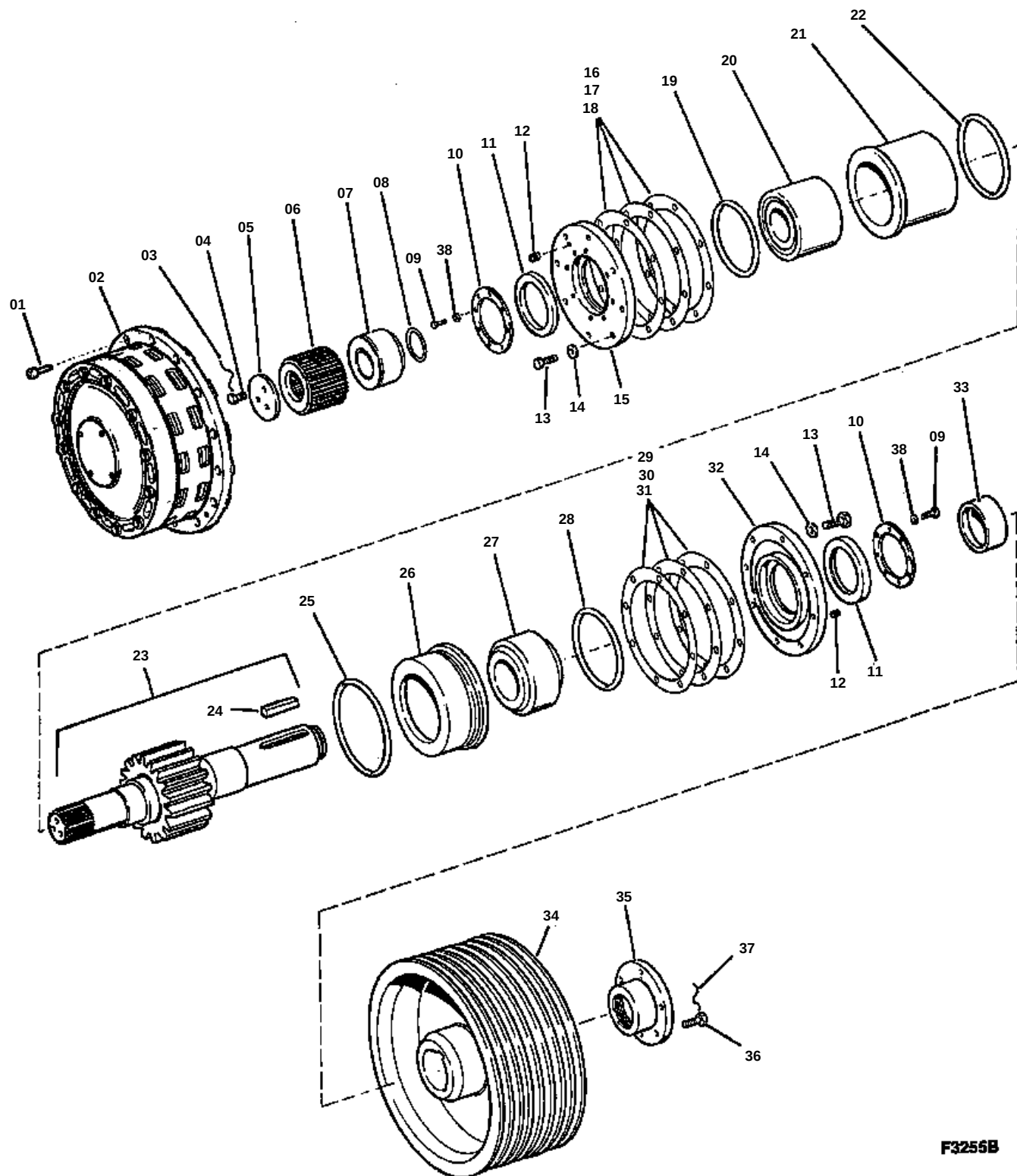
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GEAR CASE, CROWD

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SHAFT, FIRST-REDUCTION, CROWD



F3256B



SHAFT, FIRST-REDUCTION, CROWD

REF	PART NO.	DESCRIPTION	QTY
	910J652F3	SHAFT, FIRST-REDUCTION, CROWD	
01	0630V120	· SCREW, Hex Soc Hd Cap #3/4-10UNRC x 2 in	12
02	15R9D1	· BRAKE, Disc	1
03	017960059	· WIRE TIE	AR
04	20P1858D402	· SCREW, Drill Hd Cap 5/8-11UNC x 1-1/2 in	3
05	18T9849	· PLATE, Retainer	1
06	15N784D3	· HUB, Disc Brake	1
07	18P8699D1	· SPACER	1
08	45Z91D10	· O-RING	1
09	20Q260D189	· SCREW, Hex hd cap, 1/4 in-20UNC x 1/2 in	16
10	18P8838D1	· RETAINER, Seal	2
11	18Z3386D11	· SEAL, Oil	2
12	20Z1221D7	· SCREW, Set 3/8-16UNC x 1-1/4 in	2
13	20Q260D406	· SCREW, Hex Hd Cap 5/8-11UNC x 2-1/2 in	16
14	18Z694D7	· WASHER, Hardened 5/8 in	16
15	25J294D1	· RETAINER, Bearing	1
16	20P1956D4	· SHIM 0.002 Thick	2
17	20P1956D5	· SHIM 0.005 Thick	2
18	20P1956D6	· SHIM 0.015 Thick	1
19	45Z91D9	· O-RING	1
20	25Z901D9	· BEARING, Roller	1
21	25N747	· CAPSULE, Bearing	1
22	45Z91D15	· O-RING	1
23	R22279F1	· PINION, 1st Reduction	1
24	20H3011D44	· · KEY, 1-1/4 x 5 x 1/2 in	1
25	45Z91D114	· O-RING	1
26	25N748	· CAPSULE, Bearing	1
27	25Z1106D10	· BEARING	1
28	45Z91D25	· O-RING	1
29	20P1956D1	· SHIM 0.002 Thick	2
30	20P1956D2	· SHIM 0.005 Thick	2
31	20P1956D3	· SHIM 0.015 Thick	1
32	25J293D1	· RETAINER, Bearing	1
33	18P8700D1	· SPACER	1
34	R1798D1	· SHEAVE, Crowd Belt	1
35	R1796D1	· RETAINER, Sheave	1
36	20P1858D330	· SCREW, Drill Hd Cap 1/2-13UNC x 2 in	4



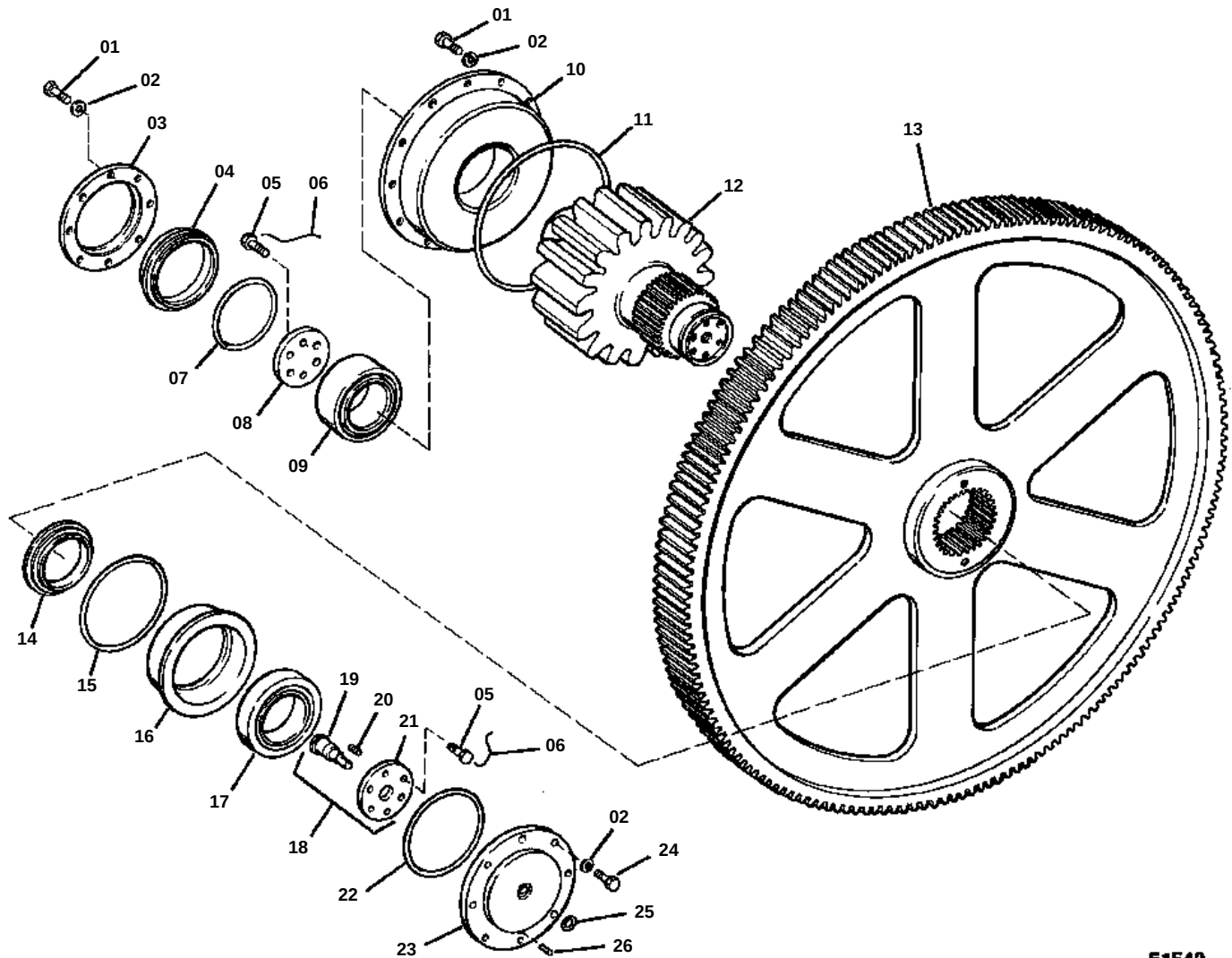
Machine
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SHAFT, FIRST-REDUCTION, CROWD

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SHAFT, SECOND-REDUCTION, CROWD



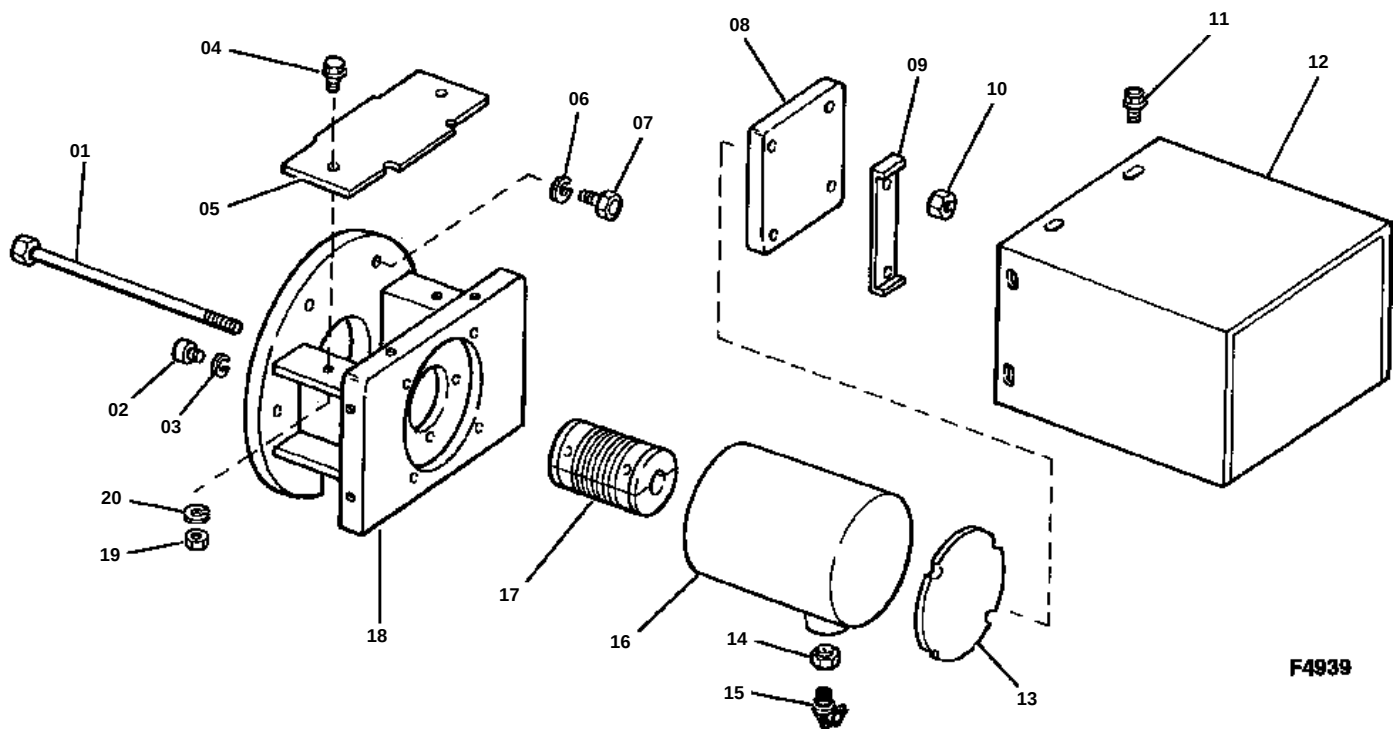
F1540

SHAFT, SECOND-REDUCTION, CROWD

REF	PART NO.	DESCRIPTION	QTY
	910J634F1	SHAFT, SECOND-REDUCTION, CROWD	
01	20Q260D404	• SCREW, Hex Hd Cap 5/8-10UNC x 2 in	20
02	18Z694D7	• WASHER	28
03	18P8591	• RING, Retainer	1
04	25J275	• RETAINER	1
05	20P1858D448	• SCREW, Hex Cap 3/4-10UNC x 2 in	12
06	017960063	• Wire, Tie	AR
07	45Z91D15	• O-RING	1
08	18T9315	• RETAINER	1
09	25Z1106D12	• BEARING, Tapered Roller	1
10	25N750	• CAPSULE, Bearing	1
11	45Z91D326	• O-RING	1
12	R23670D1	• PINION	1
13	R22315D1	• GEAR, 1st Reduction Crowd	1
14	18P8590	• SPACER	1
15	45Z91D116	• O-RING	1
16	25N751	• CARRIER, Bearing	1
17	25Z1105	• BEARING, Roller	1
18	18N2661D1F1	• RETAINER	1
19	710P12D1	• SHAFT	1
20	20Q264D187	• SCREW, Set 1/4-20UN x 3/8 in	2
21	718P770	• PLATE	1
22	45Z91D114	• O-RING	1
23	25J302D1	• RETAINER	1
24	20Q260D405	• SCREW, Hex Hd Cap 5/8-10UNC x 2-1/4 in	8
25	18Z498D168	• SEAL, Oil	1
26	20Z1221D7	• SCREW, Set-Self Locking	1



RESOLVER, LIMIT SWITCH



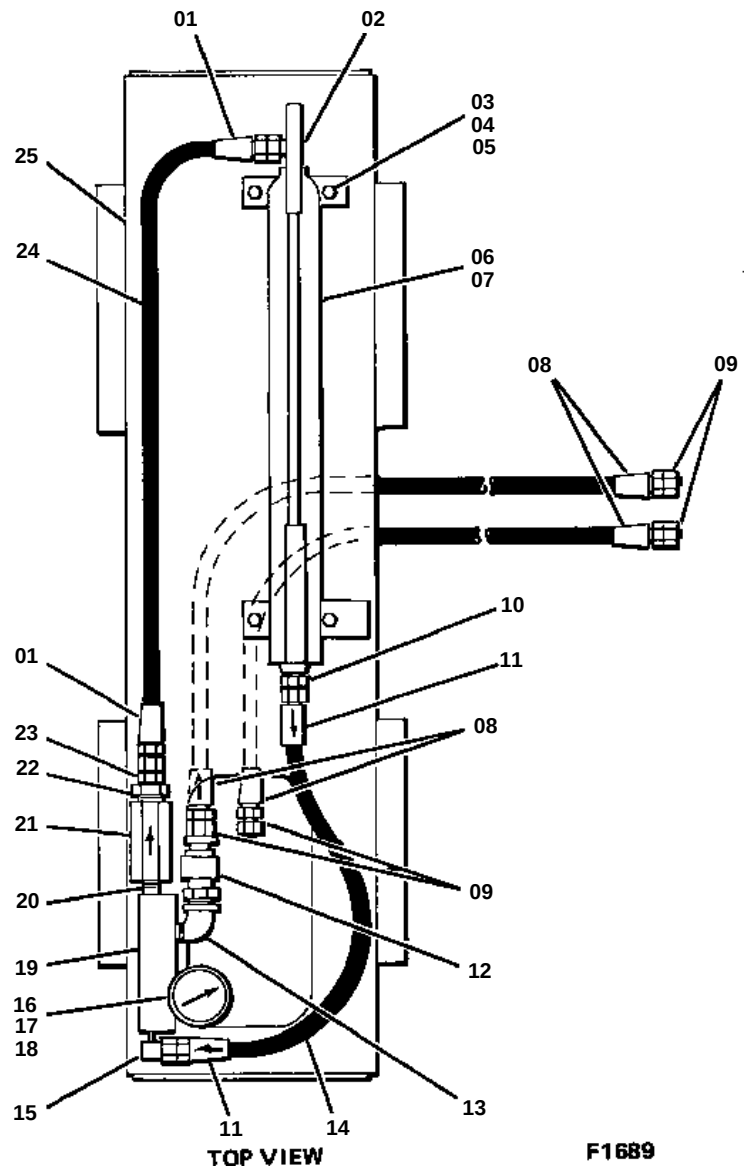
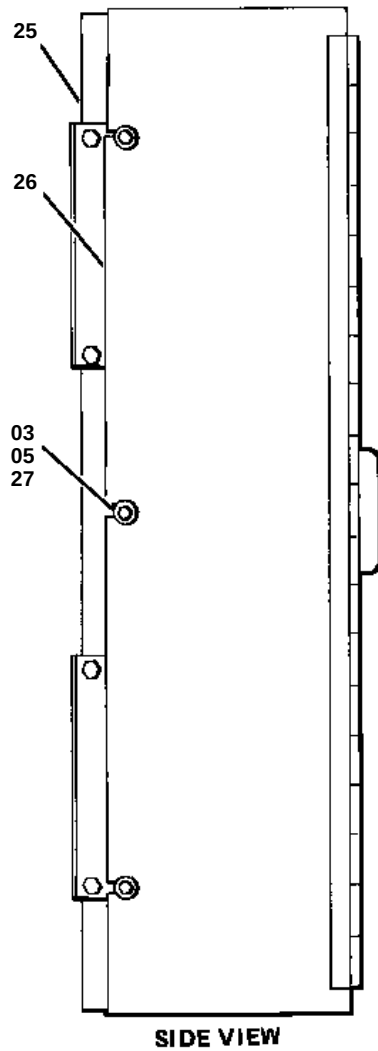
F4939

RESOLVER, LIMIT SWITCH

REF	PART NO.	DESCRIPTION	QTY
	979J249F1	RESOLVER, LIMIT SWITCH	
01	20H1569D19	• BOLT, Rod 5/16-18UNC x 7-1/4 in	4
02	0631V003	• SCREW, Hex Soc Hd Cap #10-32UNF x 3/4 in	4
03	3616V005	• WASHER, Lock #10	4
04	20Z1703D54	• SCREW, Flanged Lock 5/16-18UNC x 1-1/4 in	2
05	14N2987D1	• GUARD, Coupling	1
06	3616V011	• WASHER, Lock 1/2 in	6
07	20Q260D324	• SCREW, Hex Hd Cap 1/2-13UNC x 7/8 in	6
08	18N2625D1	• PLATE, Retainer	1
09	18P8876D1	• PLATE, Locking	2
10	20Q270D20	• NUT, Hex 5/16-18UNC	4
11	20Z1703D50	• SCREW, Flanged Lock 5/16-18UNC x 5/8 in	6
12	14J1893D1	• COVER, Resolver	1
13	16P7335D1	• PAD, Rubber	1
14	0951V004	• BUSHING, Reducer 1 x 3/4 in	1
15	79Z878D2	• CONNECTOR, Conduit Box	1
16	75Z1252D1	• RESOLVER	1
17	18Q460D1	• COUPLING, Helical Flexible Shaft	1
18	16J1657D1	• BRACKET, Mounting	1
19	20Z1704D3	• NUT, Locking Flange 5/16-18UNC	2
20	18Z466D1	• WASHER, Bevel 5/16 in	2
	79Z1918D2	• GASKET ASSEMBLY (Not Shown)	1
	21Z772D4	• LOCTITE, Adhesive (Not Shown)	1



PUMP, HAND, HYDRAULIC



F1689

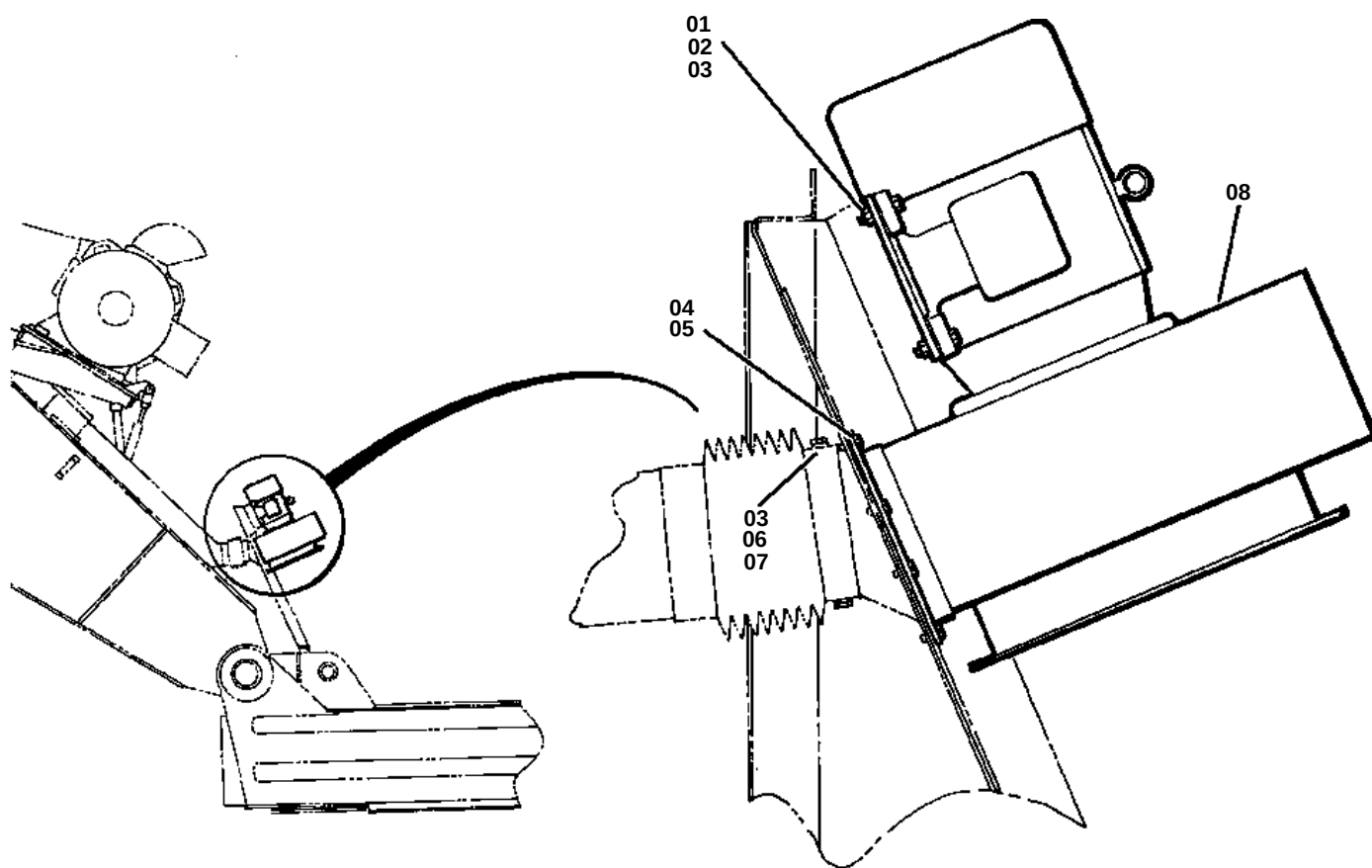


PUMP, HAND, HYDRAULIC

REF	PART NO.	DESCRIPTION	QTY
	921J36F2	PUMP, HYDRAULIC HAND	
01	44Q7D2	· HOSE END, JIC/Swivel	2
02	44Z421D4	· CONNECTOR, Elbow JIC	1
03	20Q260D260	· SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in lg	12
04	20Q270D24	· NUT, Hex 3/8-16UNC	4
05	3643V011	· WASHER, Lock 3/8 in	12
06	45Z320	· HAND PUMP, Hydraulic	1
07	21Z685	· OIL, Hydraulic	AR
08	44Q6D6	· HOSE END, Male pipe 3/8 in	4
09	44Z1104	· COUPLER HALF, Male CH-604	4
10	44Z590D9	· CONNECTOR, JIC/Male pipe	1
11	44Q7D9	· HOSE END, JIC/Swivel	2
12	44Z1103	· COUPLER HALF, Female CR-400	1
13	2457V017	· ELBOW, Street 3/8" x 90[	1
14	442765093	· HOSE, High pressure 3/8 x 420 in	AR
15	44Z591D9	· PIPE ELBOW, JIC/Male	1
16	89Z616	· GAUGE, Pressure 6000 P S I	1
17	2405V003	· BUSHING, Reducer 3/8 x 1/4 in	1
18	2457V017	· ELBOW, Street 3/8" x 90[	1
19	18P3152	· MANIFOLD	1
20	2450V069	· NIPPLE, Close 3/8"-XS	1
21	36Z1234D1	· VALVE, Relief	1
22	2405V011	· BUSHING, Reducer 3/4 x 1/4 in	1
23	44Z590D4	· CONNECTOR, JIC/Male pipe	1
24	442765091	· HOSE, High pressure 1/4 x 30 in	AR
25	16J1248F1	· BASE, Hydraulic hand pump	1
26	14N2323F1	· COVER, Hydraulic hand pump	1
27	3611V007	· WASHER, Plain 3/8 in	8
28	R29790D1	· PLATE, Instruction (Not Shown)	1
29	20Z42D8	· SCREW, Drive #10 x 3/8 in (Not Shown)	4



BLOWER INSTALLATION, CROWD



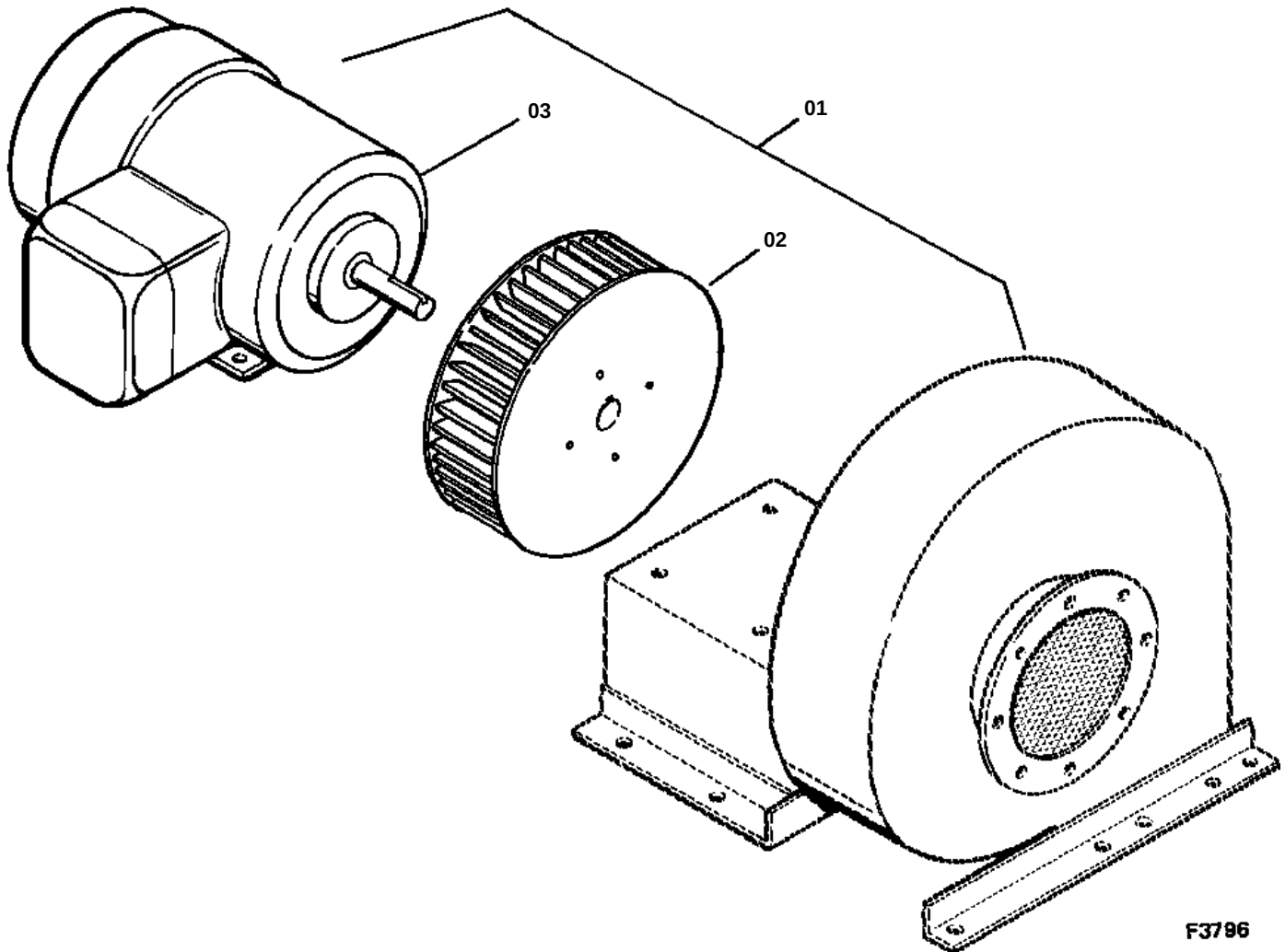
F2227

BLOWER INSTALLATION, CROWD

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6397F1	BLOWER INSTALLATION, CROWD		
01	20Q270D32	• NUT, Hex 1/2-13UNC	8	
02	20Q260D330	• SCREW, Hex Hd Cap 1/2-13UNC x 2 in	4	
03	3616V011	• WASHER, Lock 1/2 in	12	
04	20Q260D258	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	14	
05	3616V009	• WASHER, Lock 3/8 in	14	
06	20Q260D323	• SCREW, Hex Hd Cap 1/2-13UNC x 3/4 in	8	
07	3631V009	• WASHER, Plain 1/2 in	8	
08	R12599D1F1	• BLOWER, Crowd Motor	1	6-10



BLOWER





Machine
Serial Number: **4184**

BLOWER

[illegible]

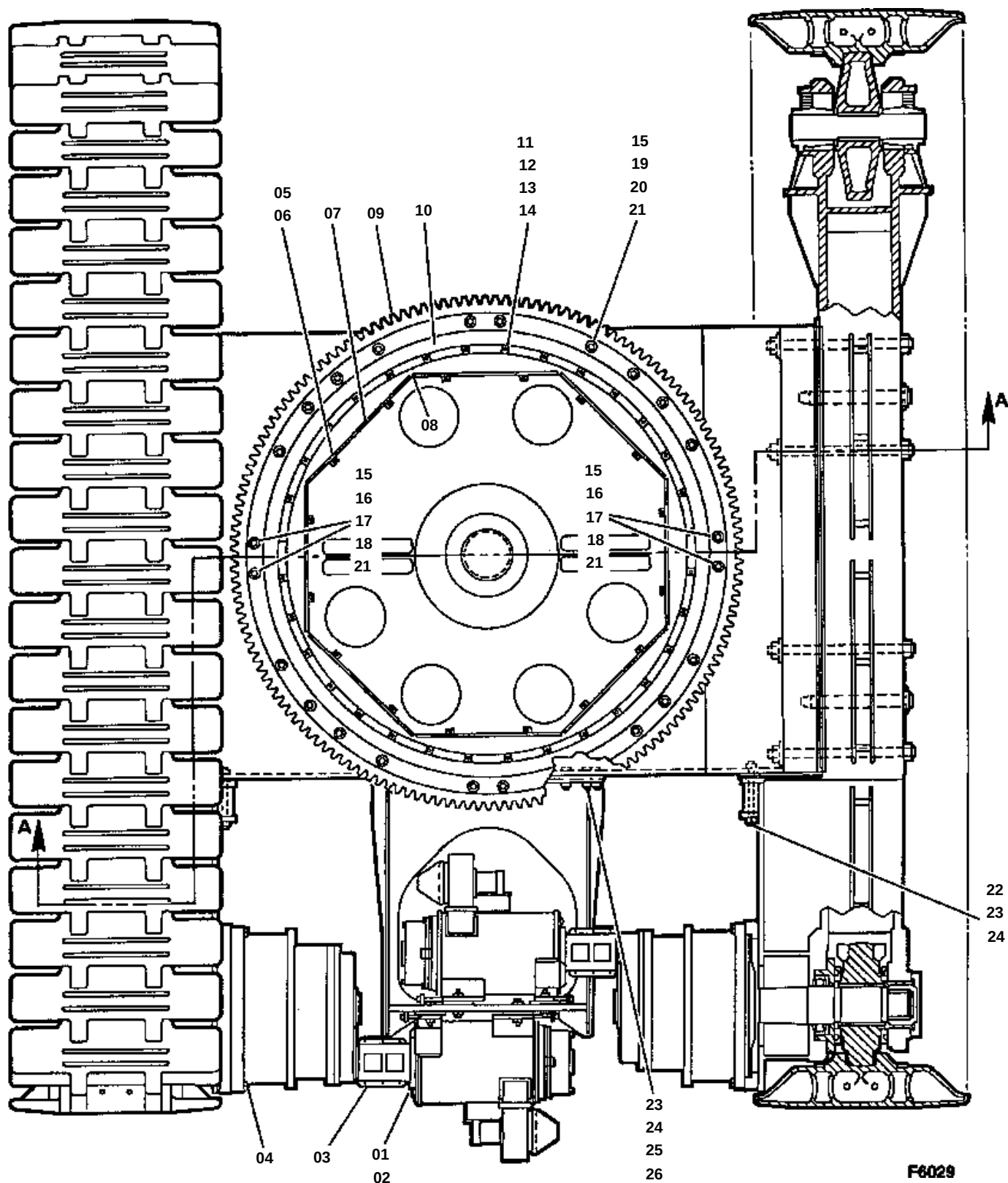


Group 7 - Propel System

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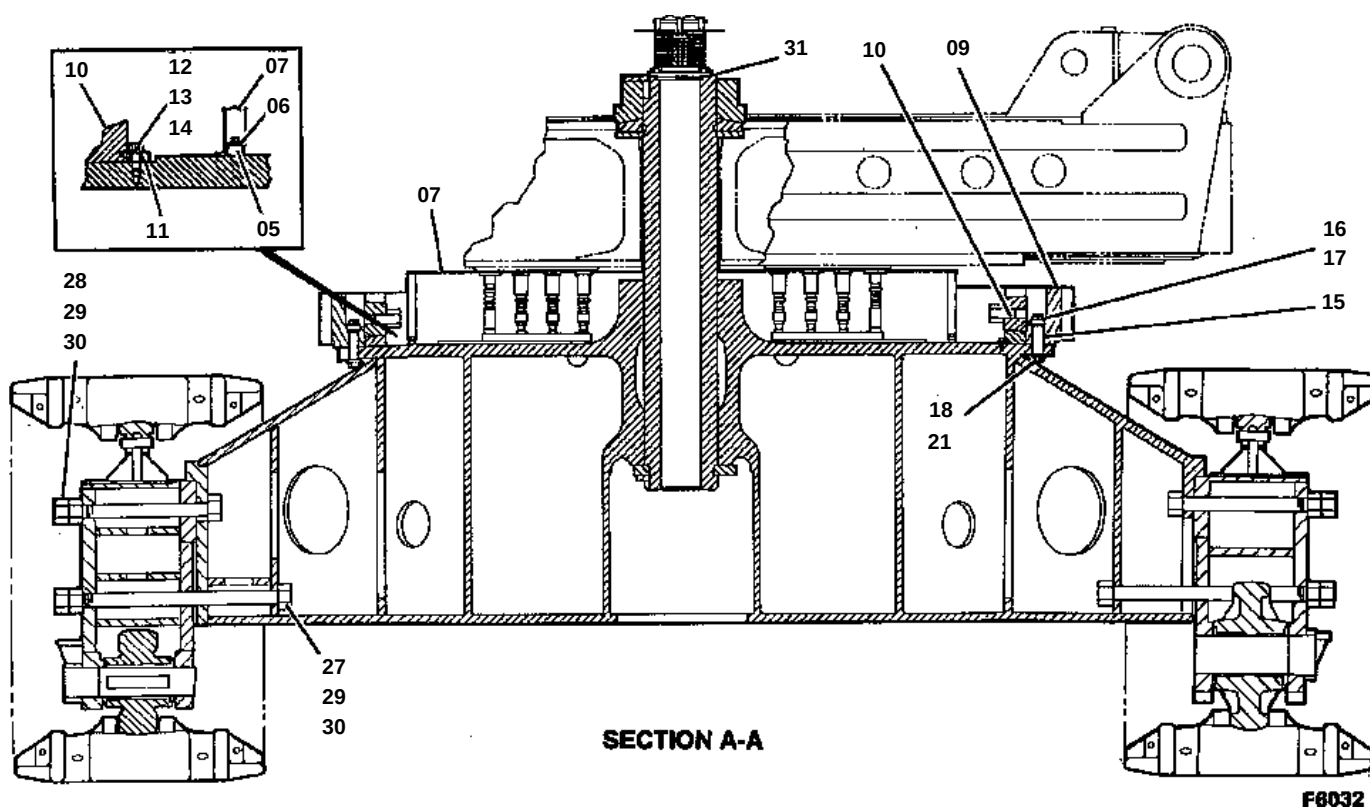


LOWER FINAL ASSEMBLY





LOWER FINAL ASSEMBLY





LOWER FINAL ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R18862F1	LOWER FINAL ASSEMBLY		
01	3616V017	· WASHER, Lock 1 in	16	
02	3632V011	· WASHER, Plain 1 in	16	
03	914J393F1	· GUARD ASSEMBLY, Coupling	2	
--	14J1697	· · GUARD, Coupling	1	
	14J1698	· · GUARD, Coupling	1	
	20Z1703D67	· · SCREW, Flanged Lock 3/8-16UNC x 3/4 in	6	
04	0630V237	· SCREW, Hex Skt Hd Cap 1-1/2--6UNC x 5 in	72	
05	718N233D5	· BLOCK, Tap	16	
06	20Z1703D97	· SCREW, Flanged Lock 1/2-13UNC x 1 in	16	
07	14N2742	· GUARD, High-voltage Collector	7	
	R27092F1	· GUARD, High-voltage Collector	1	
08	20Z1703D67	· SCREW, Flanged Lock 3/8-16UNC x 3/4 in	24	
09	R31328D1	· GEAR, Ring	1	
10	R35571D1	· PATH, Roller	1	
11	R35789D1	· CLIP, Rail	32	
12	20P1858D451	· SCREW, Drill Hd Cap 3/4-10UNC x 2-3/4 in	32	
13	18Z694D8	· WASHER, Hardened 3/4 in	32	
14		NOT USED		
15	R5720D1	· PIN, Shear, Ring Gear	24	
16	20Q259D701	· SCREW, Hex Hd Cap 1-1/2--6UNC x 13 in, Grade 5	4	
17	18T17962D6	· WASHER, Hardened 1-1/2 x 1/2 in thick	4	
18	18T17962D3	· WASHER, Hardened 1-1/2 x 3/4 in thick	4	
19	20Q325D701	· SCREW, Hex Hd Cap 1-1/2--6UNC x 13 in, Grade 8	20	
20	18T17962D4	· WASHER, Hardened 1-1/2 x 1-1/4 in thick	20	
21	20Q279D96	· NUT, Lock 1-1/2--6UNC	24	
22	20T10015D8	· BOLT, Rod, 2--4-1/2UNC x 25-1/2 in	8	
23	18Z694D16	· WASHER, Hardened 2 in	30	
24	20Q279D128	· NUT, Hex 2--4-1/2UNC	30	
25	20Q259D841	· SCREW, Hex Hd Cap 2--4-1/2UNC x 7-1/2 in	14	
26	19T6449	· PIN, Shear, Propel-motor Base	2	
27	R17582D1	· BOLT, Rod, 4-8UN x 68-1/2 in	12	
28	R17582D2	· BOLT, Rod, 4-8UN x 48-1/2 in	12	
29	18Z694D24	· WASHER, Hardened 4 x 1/4 in thick	48	
30	20Z1287D42	· NUT, Hex 4-8UN	72	
31	18P8220D1F1	· PLATE, Adapter, Low-voltage Collector	1	



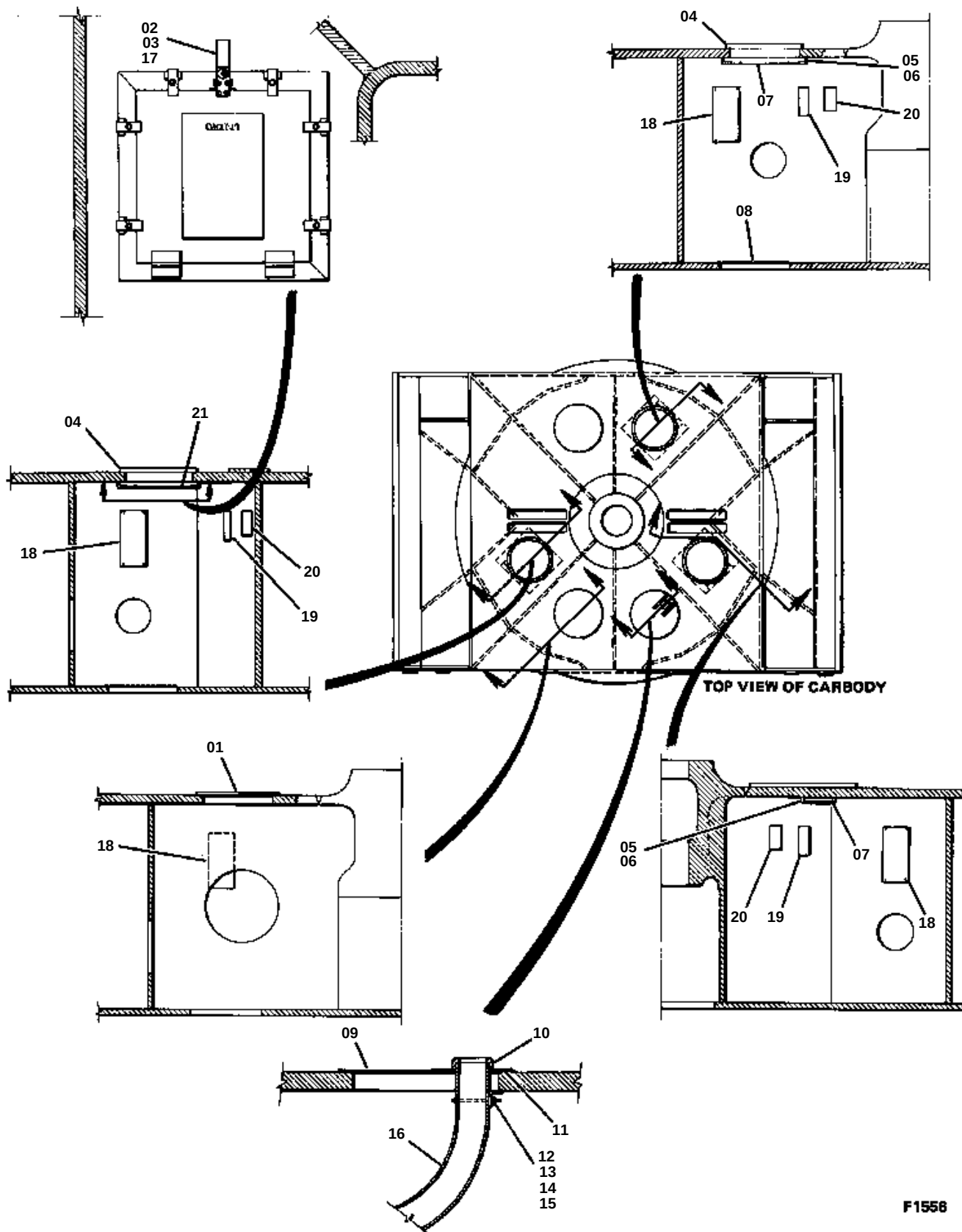
Machine
Serial Number: **4184**

LOWER FINAL ASSEMBLY

[illegible]



COVERS, ACCESS, HIGH-VOLTAGE COLLECTOR



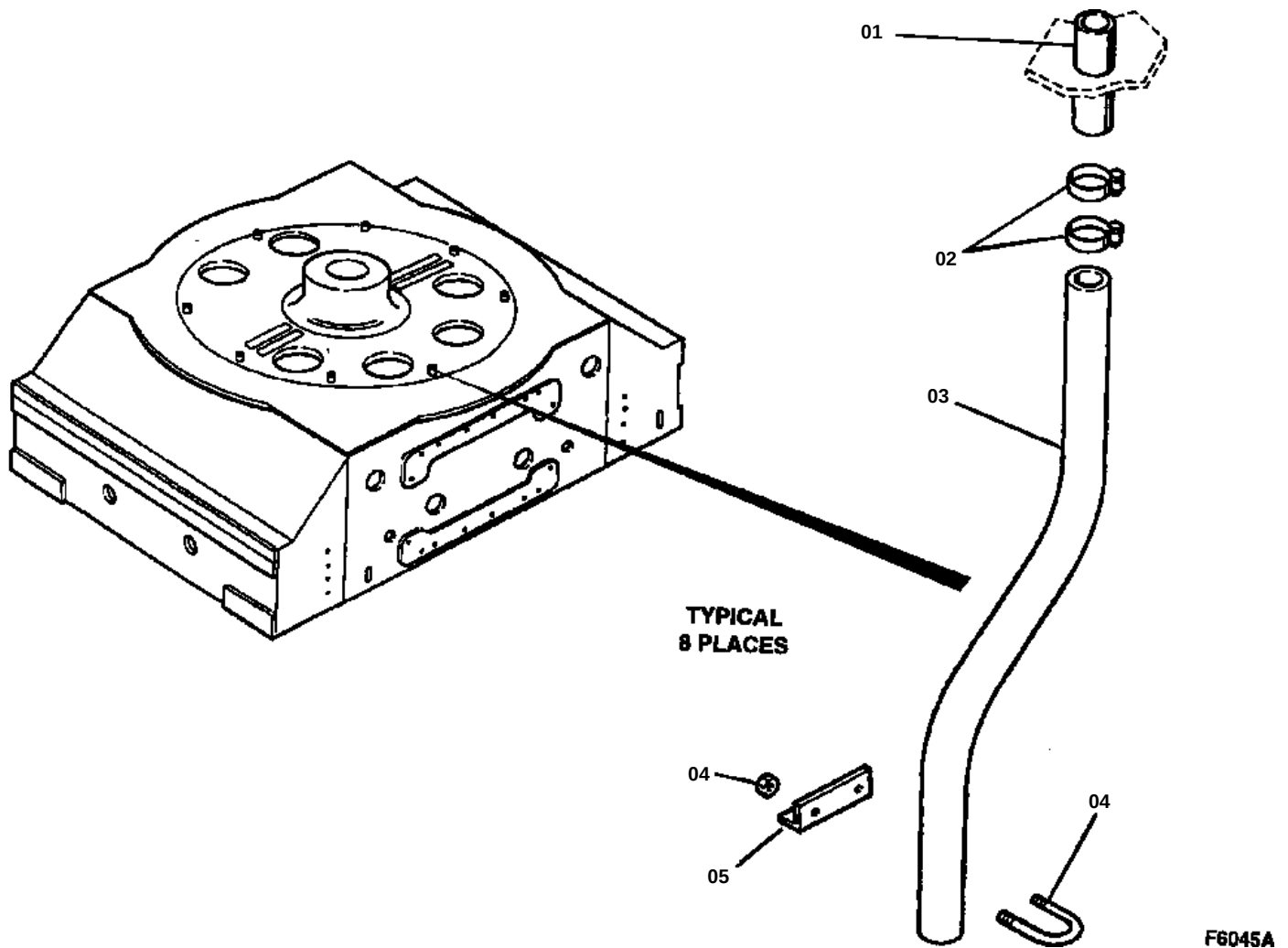
F1558

COVERS, ACCESS, HIGH-VOLTAGE COLLECTOR

REF	PART NO.	DESCRIPTION	QTY
	914J389F2	COVERS, ACCESS, HIGH-VOLTAGE COLLECTOR	
01	14T2017D3	• COVER, Fixed	2
02	0836V140	• SCREW, Slot Fil Hd Mach 3/8-16UNC x 3 in	6
03	20H1614D4	• NUT, Self-Locking 3/8-16UNC	12
04	14T2019D2	• RING, Dam	3
05	20J85D1F1	• FRAME HALF, Door	2
06	20J85D2F2	• FRAME HALF, Door	3
07	14N2852D1F1	• COVER, Hinged	3
08	14N3349D1	• COVER	2
09	14T2018D2	• COVER, Fixed	1
10	0906V010	• BUSHING, Conduit 4 in (Not included with 914J389F2)	
11	14T2016	• SEGMENT, Cover	1
12	16N3348D165	• ANGLE, Conduit Mtg	1
13	3616V009	• WASHER, Lock 3/8 in	2
14	20Q3D14	• U-Bolt Conduit 3/8-16UNC	1
15	20Q270D24	• NUT, Hex 3/8-16UNC	2
16	87Z58	• ELBOW, Conduit 4 in x 90 deg (Not included with 914J389F2)	
17		• LOCK, Kirk Key (NOTE: Not included with 914J389F2)	
18	32Q1766	• SIGN, Danger, Hazardous Voltage (Not included with 914J389F2)	AR
19	32Q1768	• SIGN, Caution, Turning Key (Not included with 914J389F2)	AR
20	32Q1944D1	• SIGN, Notice, Entry Procedures (Not included with 914J389F2)	AR
21	0836V141	• SCREW, Slot Fil Hd Mach 3/8-16UNC x 3-1/2 in	6
22	R3434D1	• SHIM, Kirk Key Lock .010 in (Not shown)	3
23	R3434D2	• SHIM, Kirk Key Lock .020 in (Not shown)	3



DRAIN, ROLLER CIRCLE





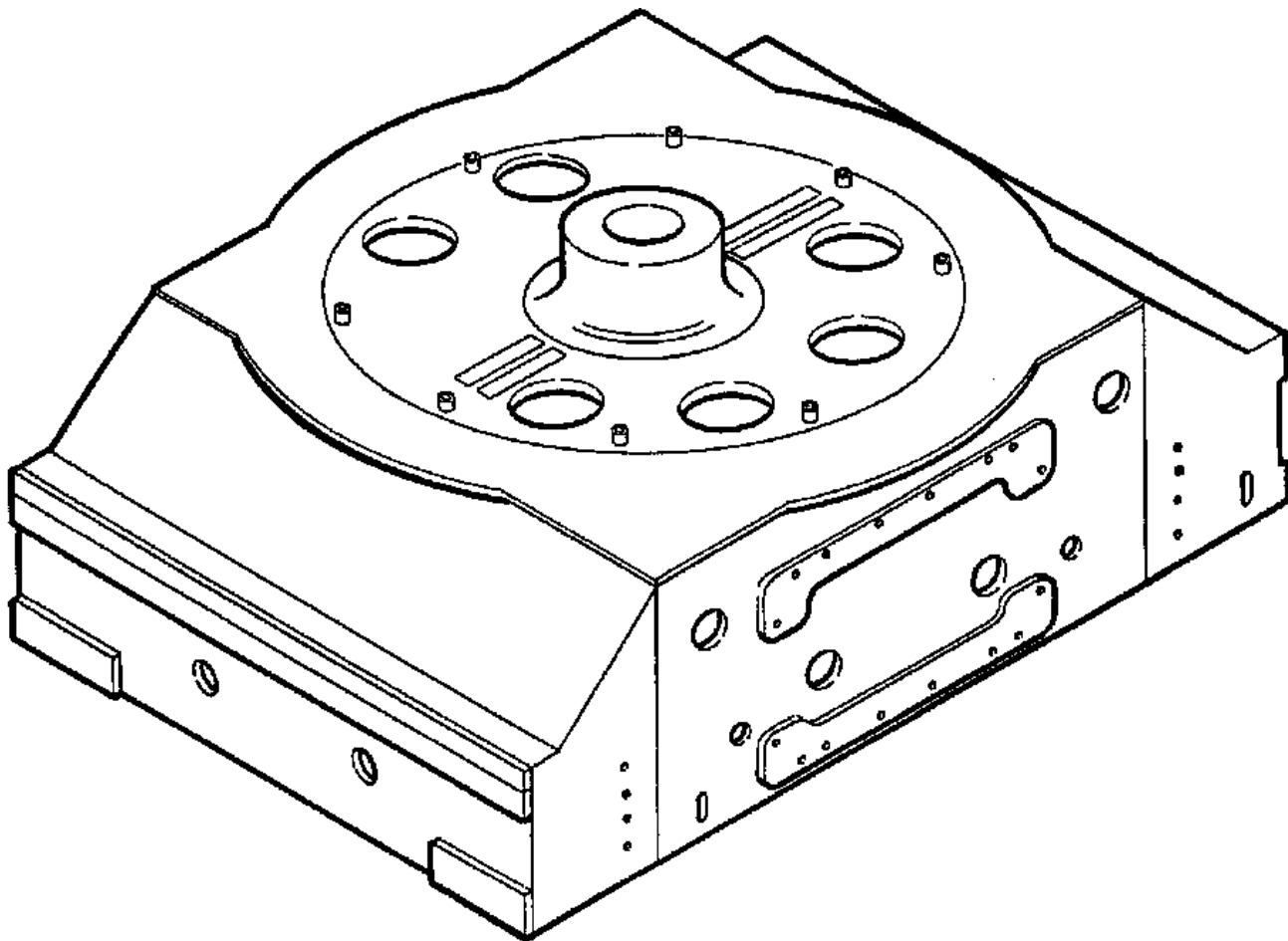
Machine
Serial Number: **4184**

DRAIN, ROLLER CIRCLE

[illegible]



CARBODY & TOWING LUGS



F6044

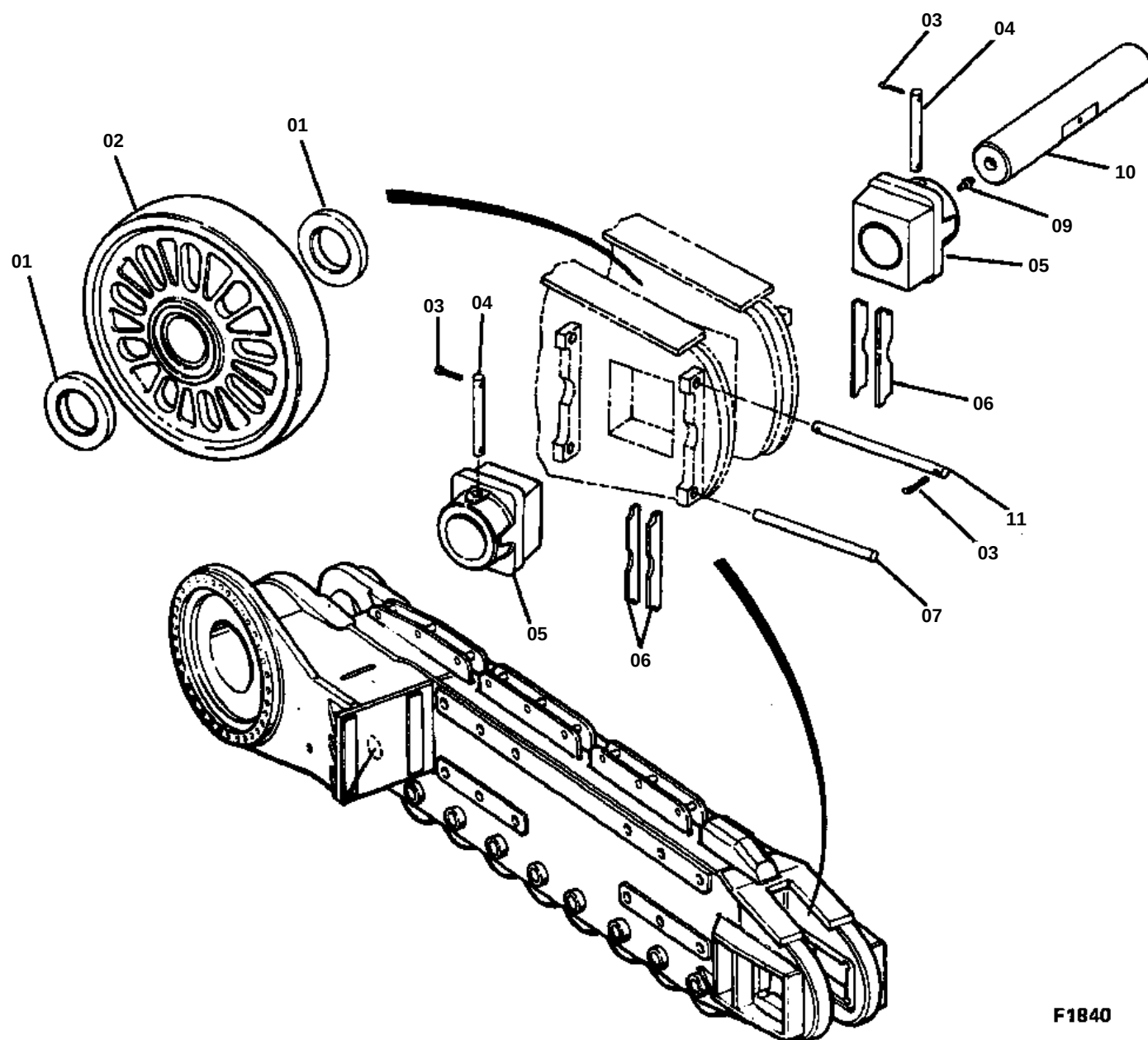


Machine
Serial Number: **4184**

CARBODY & TOWING LUGS

REF	PART NO.	DESCRIPTION	QTY
	R17002D2	CARBODY	1
--	1022J93F1	TOWING LUGS - (Not Illustrated)	1

IDLER, CRAWLER

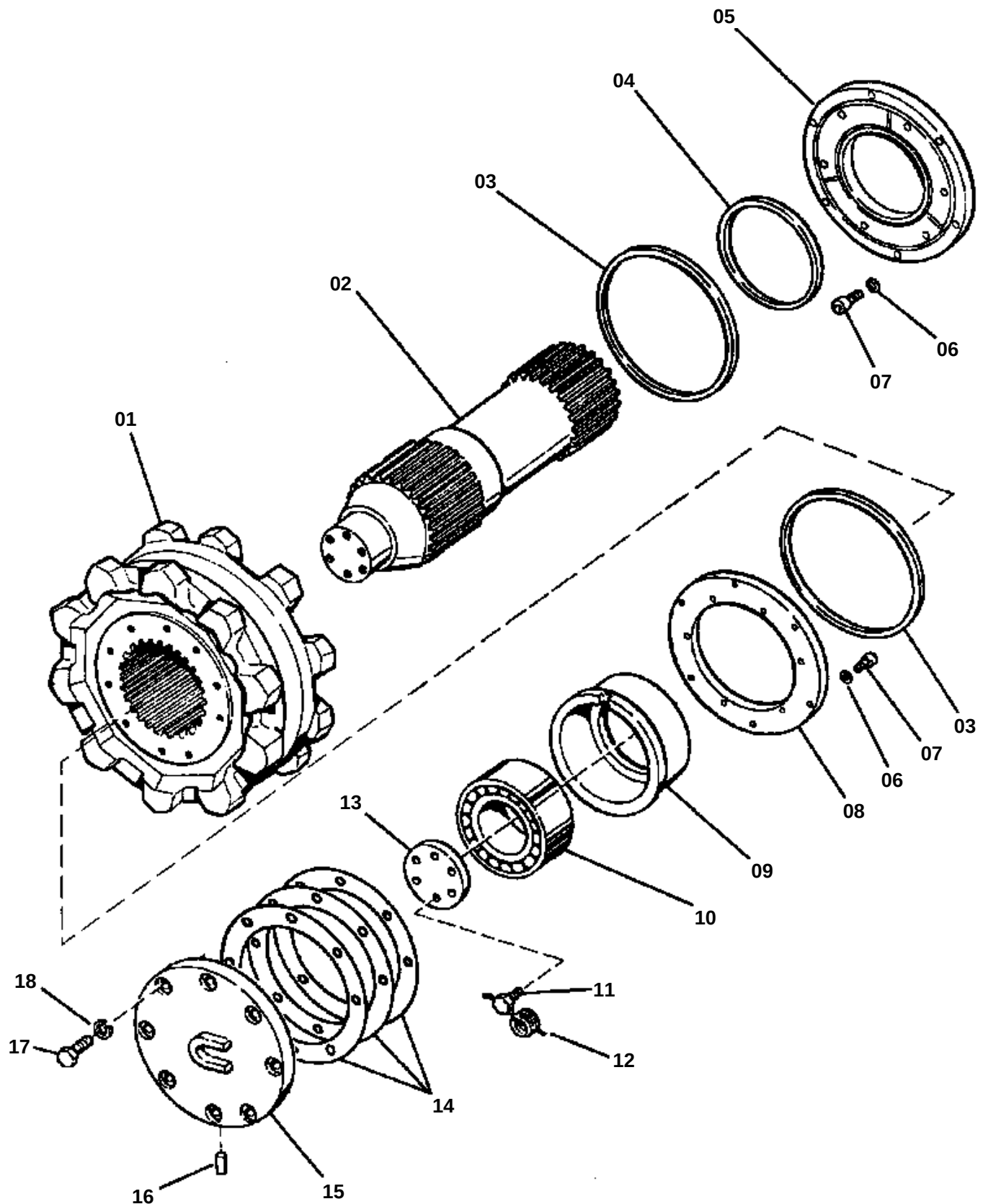
**F1840**

IDLER, CRAWLER

REF	PART NO.	DESCRIPTION	QTY
	910J659F1	IDLER, CRAWLER	
01	18P8664D3	• WASHER, Thrust	2
02	13J243D2C1F1	• ROLLER, Idler	1
	R5182D1	• • BUSHING (Not Shown)	2
03	2201V135	• PIN, Cotter	8
04	19F73D88	• PIN, Drilled	2
05	25J288D1	• BEARING	2
06	20P1845D1	• SHIM, 1in	20
	20P1845D2	• SHIM, 3/4in	12
07	19T6445	• PIN	2
08		NOT USED	
09	44Z1D7	• FITTING, Lube	1
10	10N754	• SHAFT, Idler	1
11	19F73D86	• PIN, Drilled	2



DRIVE SHAFT, CRAWLER TUMBLER



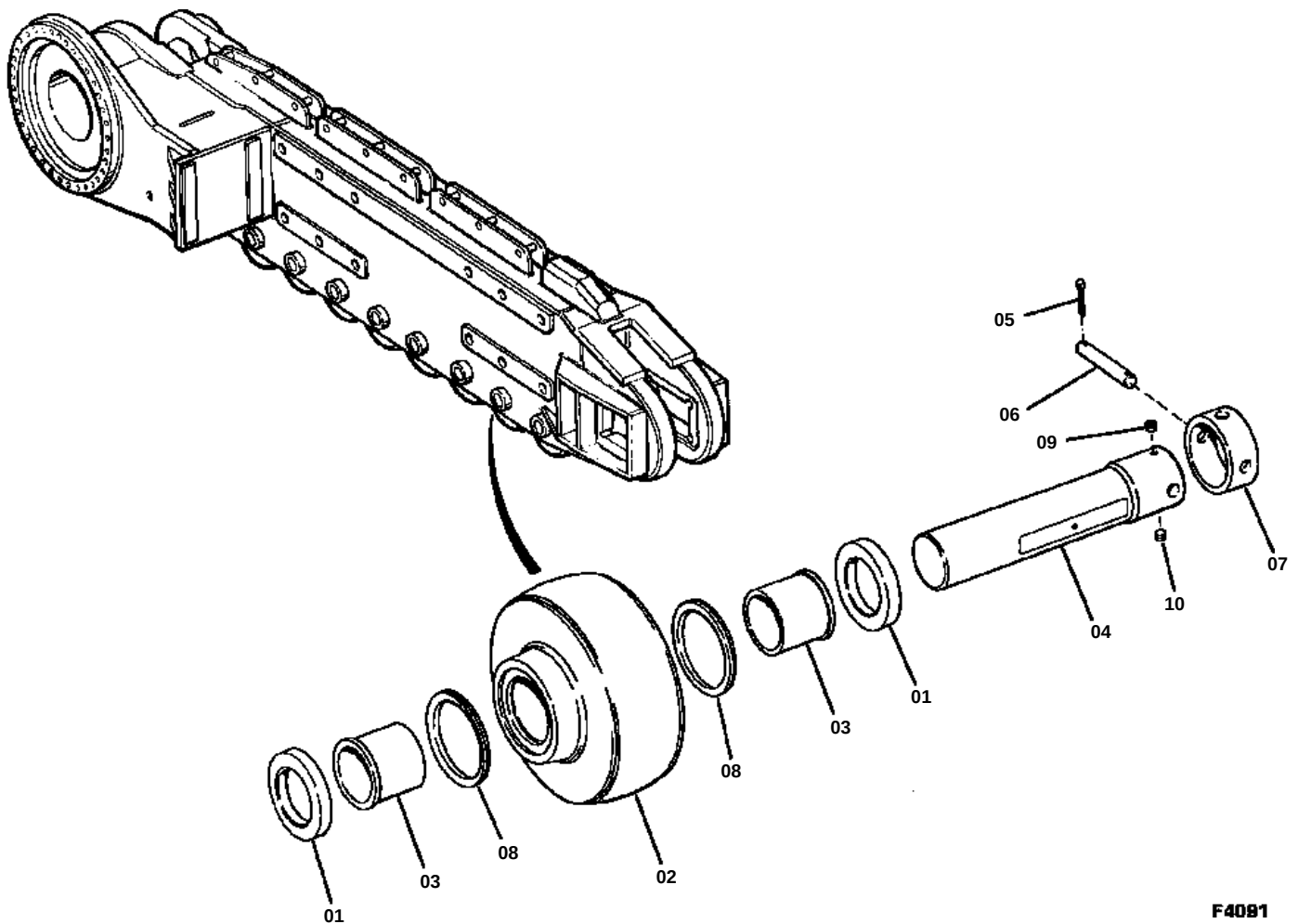
F4080B

DRIVE SHAFT, CRAWLER TUMBLER

REF	PART NO.	DESCRIPTION	QTY
	R35826F1	DRIVE SHAFT, CRAWLER TUMBLER	
01	R24850D3	· TUMBLER, Drive Crawler	1
02	R35709D1	· SHAFT, Drive Crawler	1
03	18Z3344D26	· SEAL, V-Ring	2
04	18Z3344D1	· SEAL, V-Ring	1
05	R35652D1	· WASHER, Thrust	1
06	3620V013	· WASHER, Hardened 5/8 in	20
07	0630V104	· SCREW, Soc Hex Hd Cap 5/8-11UNC x 2-1/2 in lg	20
08	18N2614D1	· WASHER, Thrust	1
09	25N821D1	· BEARING, Capsule	1
10	25Z1267D4	· BEARING, Spherical Roller	1
11	20P1858D685	· SCREW, Drive Hex Hd Cap 1-1/2-6UNC x 4-1/2 in lg	6
12	017960071	· WIRE, Tie #6 gauge	AR
13	25P1348D1	· CAP, End	1
14	20P1997D3	· SHIM-PLASTIC, (.020)	3
	20P1997D2	· SHIM-PLASTIC, (.010)	1
	20P1997D1	· SHIM-PLASTIC, (.005)	1
15	25N822D1	· BEARING, Cap	1
16	19Z138D179	· PIN, Dowel	1
17	20Q260D624	· SCREW, Hex Hd Cap 1-1/4-7UNC x 7 in lg	8
18	18Z694D12	· WASHER, Hardened 1-1/4 in	8
19	21Z772D12	· LOCTITE (Not Shown)(For Ref 07)	AR



SHAFT, CORDUROY IDLER, LOWER



F4091



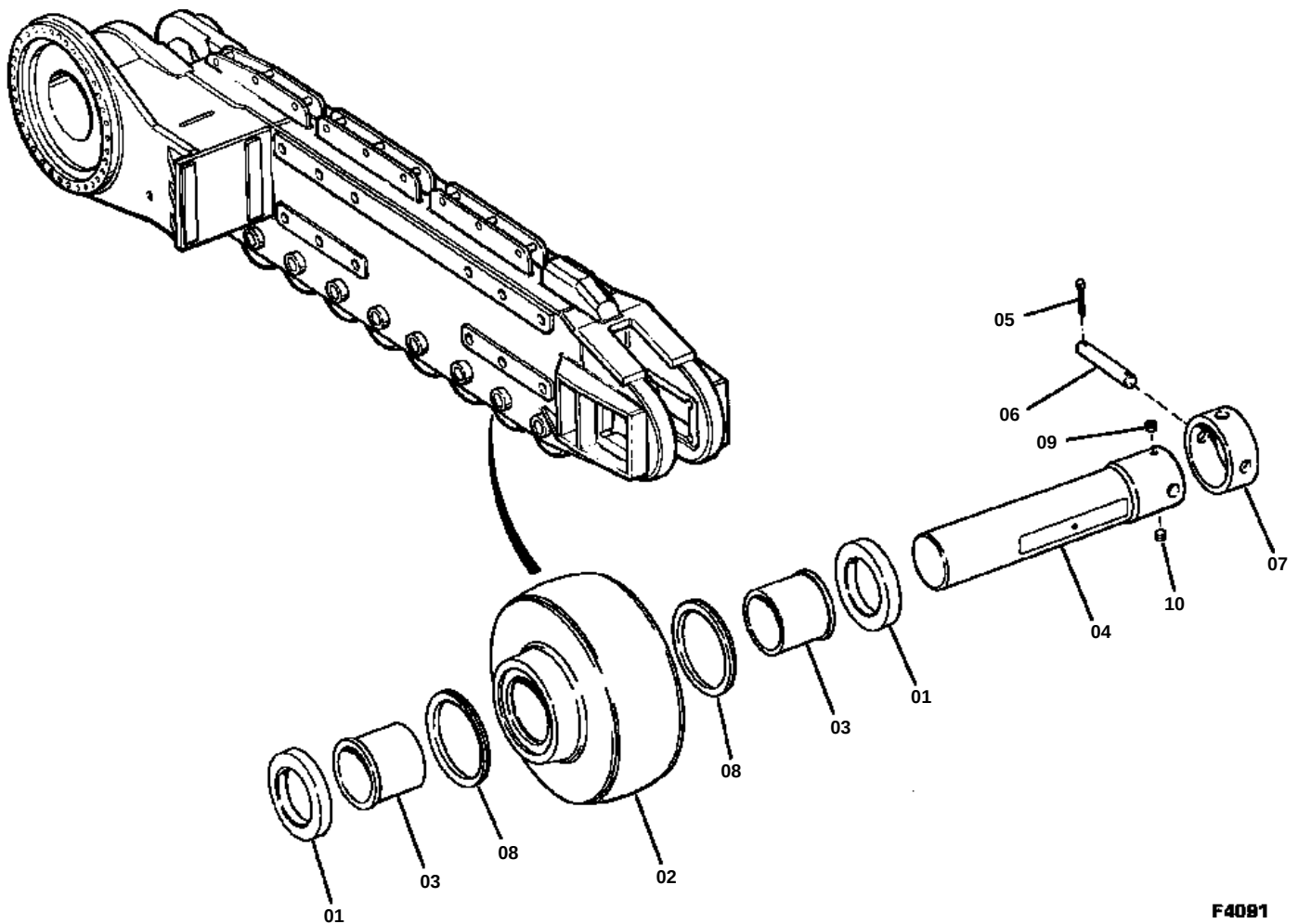
Machine
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SHAFT, CORDUROY IDLER, LOWER

[illegible]



SHAFT, CORDUROY IDLER, LOWER FRONT ONLY



F4091



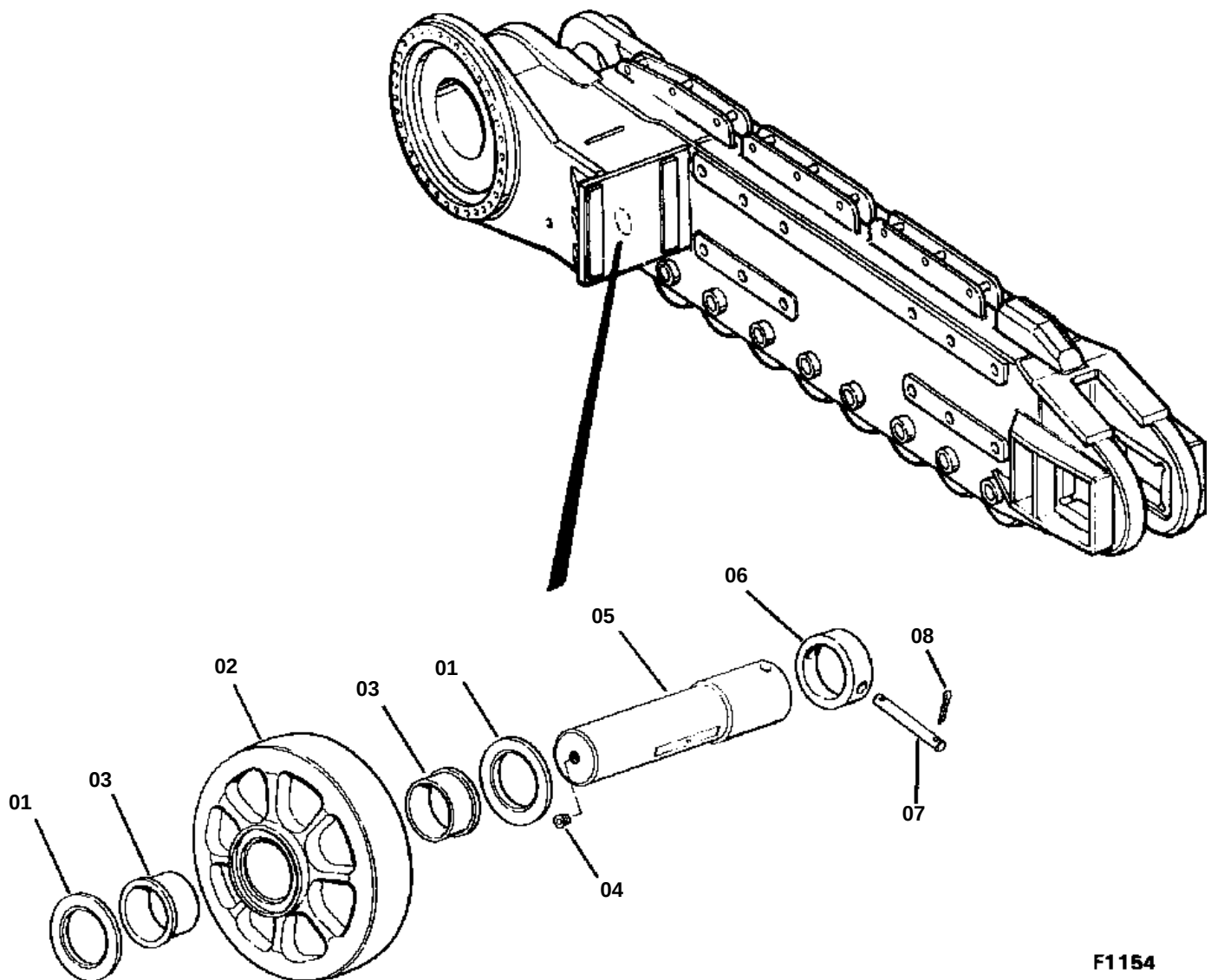
Machine
Serial Number: **4184**

SHAFT, CORDUROY IDLER, LOWER FRONT ONLY

REF	PART NO.	DESCRIPTION	QTY
	913N62F4	SHAFT, CORDUROY IDLER, LOWER FRONT ONLY	
01	18N2628D2	• WASHER, Thrust	2
02	R48145F1	• ROLLER, Lower	1
03	R38359D1	• • BUSHING, Roller	2
04	19N114	• PIN, Lower Roller	1
05	2203V103	• PIN, Cotter 5/16 X 2-1/4in lg.	2
06	19F63D106	• PIN	1
07	18T17826D2	• TUBE, Lower Roller-front roller only	1
08	18Z3344D12	• SEAL, V-ring	2
09	44D992D5	• PLUG, Protective, 3/8 in.	1
10	2422V003	• PLUG, Countersunk pipe, 3/8 in.	1



SHAFT, IDLER, REAR



F1154



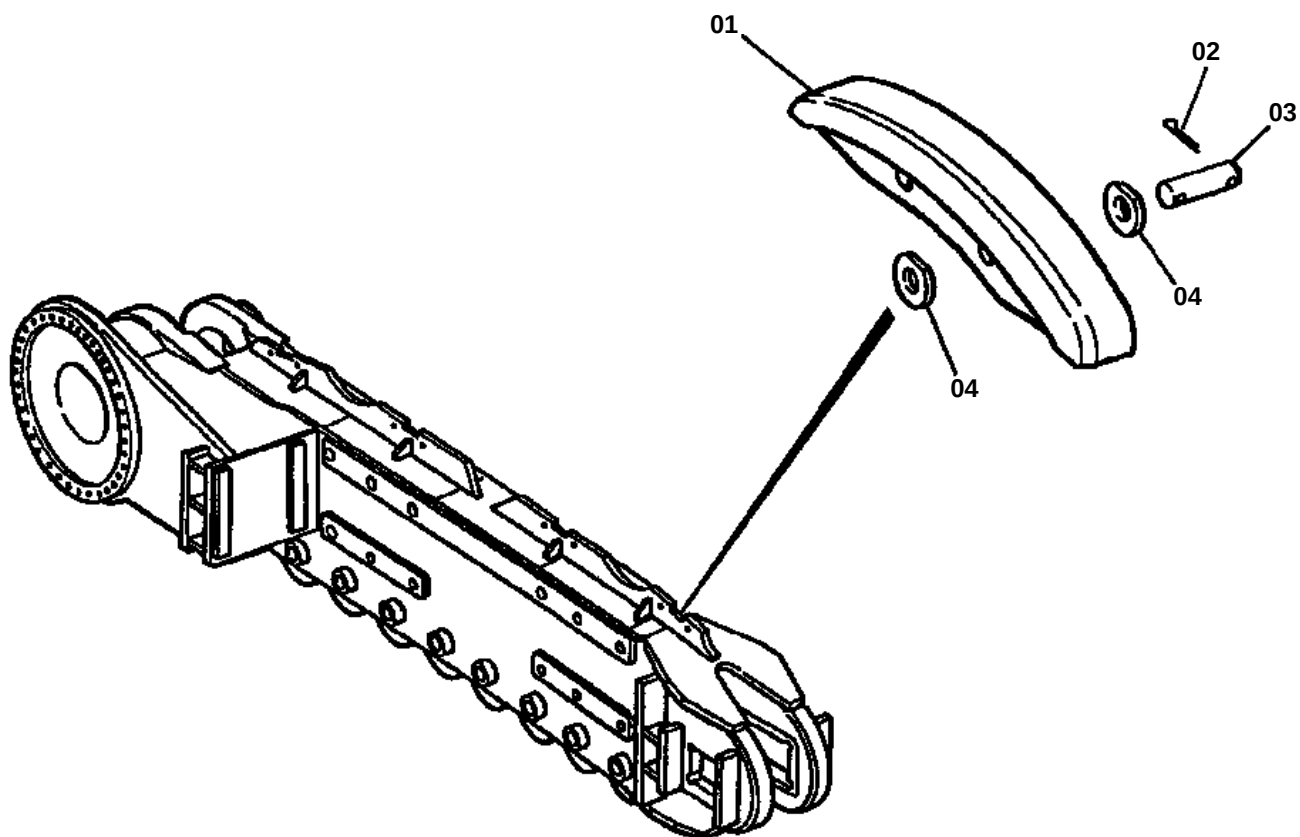
Machine
Serial Number: **4184**

SHAFT, IDLER, REAR

REF	PART NO.	DESCRIPTION	QTY
	913J27F1	SHAFT, IDLER, REAR	
01	18Q340D9	· WASHER, Thrust	2
02	13J246D1C1F1	· ROLLER, Idler	1
03	R5182D1	· · BUSHING, Idler Roller	2
04	44Z992D5	· PLUG, Pipe 3/8in.	1
05	19N113	· PIN, Rear Idler	1
06	18P8662D1	· TUBE, Idler Roller	1
07	19F63D108	· PIN, Lower Roller	1
08	2203V103	· PIN, Cotter 5/16 X 2-1/4in lg.	2



GUIDE RAIL, CRAWLER FRAME, FRONT



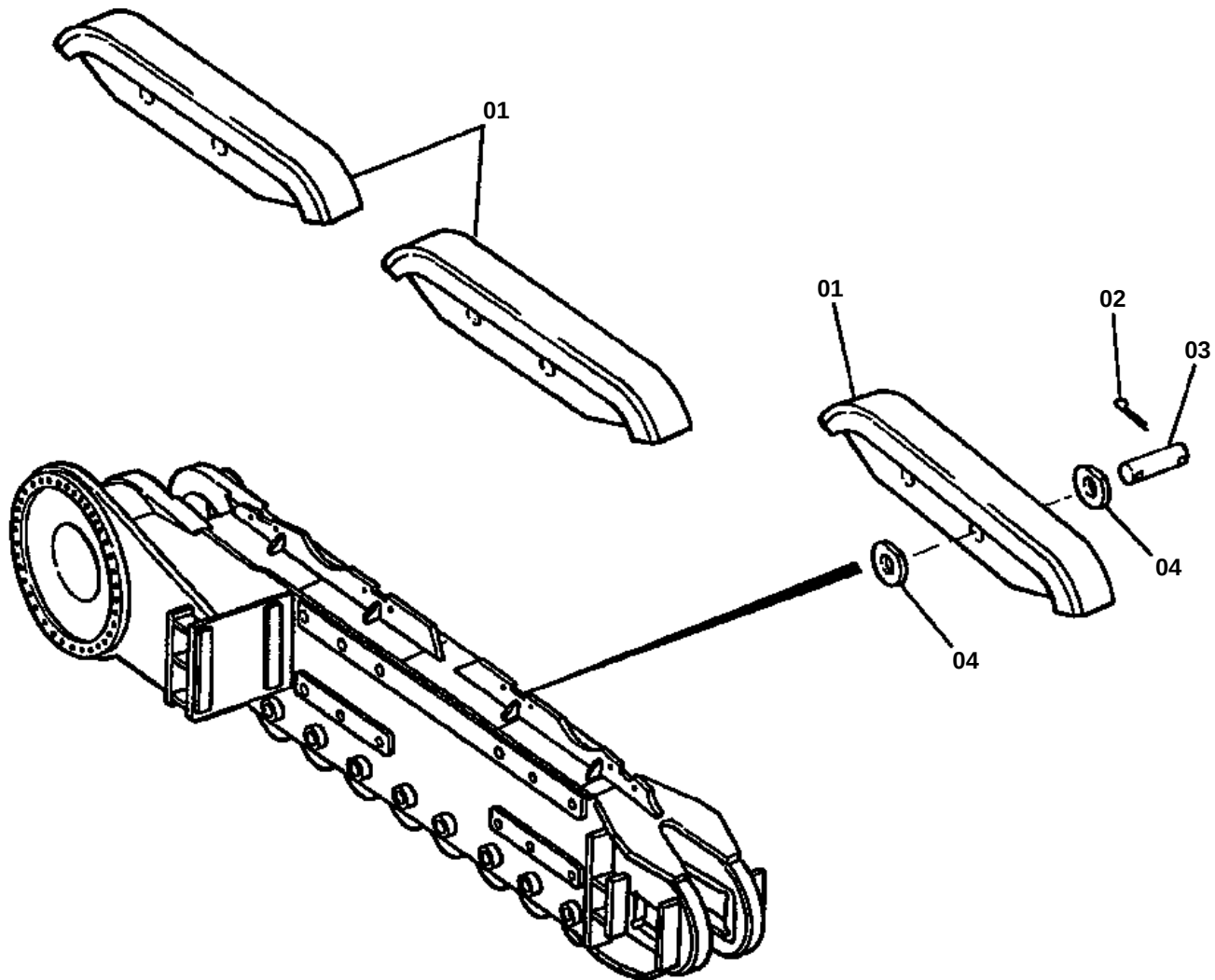
F6040A

GUIDE RAIL, CRAWLER FRAME, FRONT

[illegible]



GUIDE RAIL, CRAWLER FRAME, REAR



F6041B



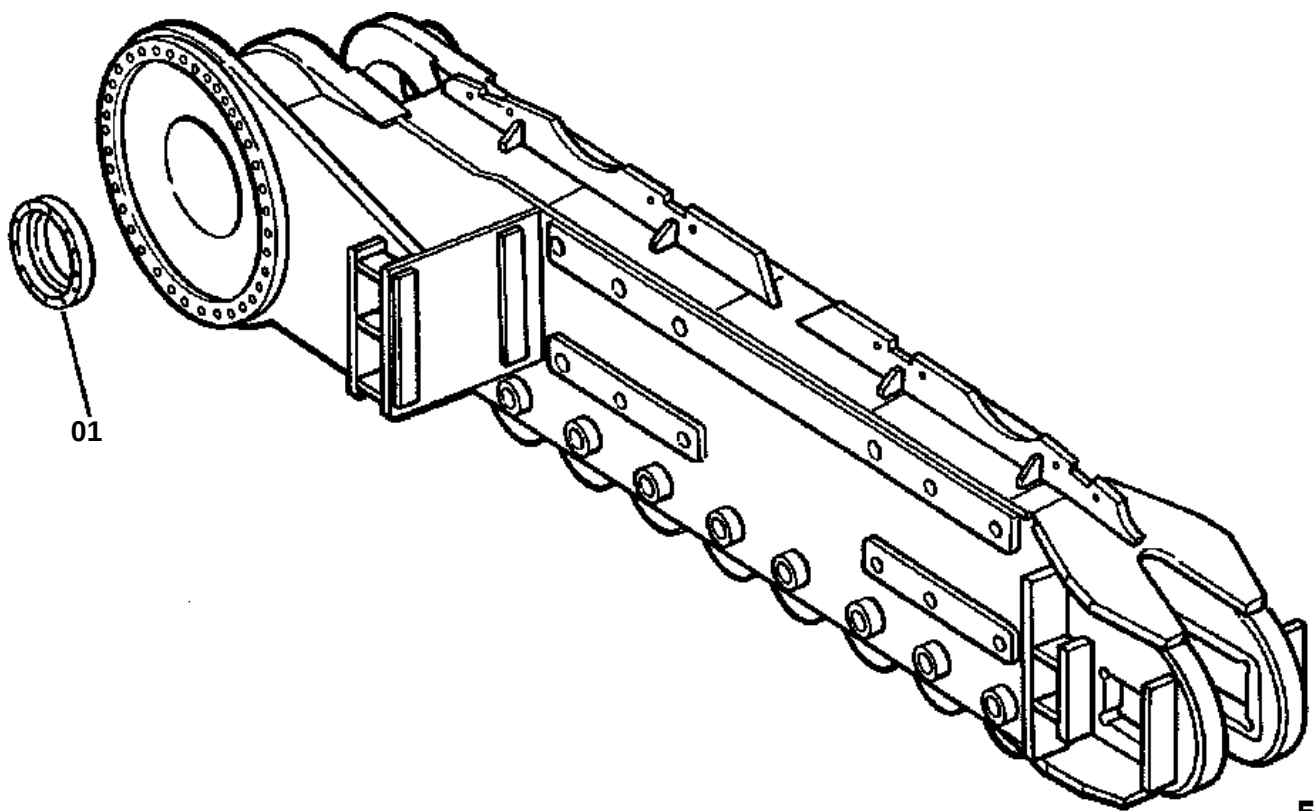
Machine
Serial Number: **4184**

GUIDE RAIL, CRAWLER FRAME, REAR

[illegible]



CRAWLER FRAME, RIGHT-HAND



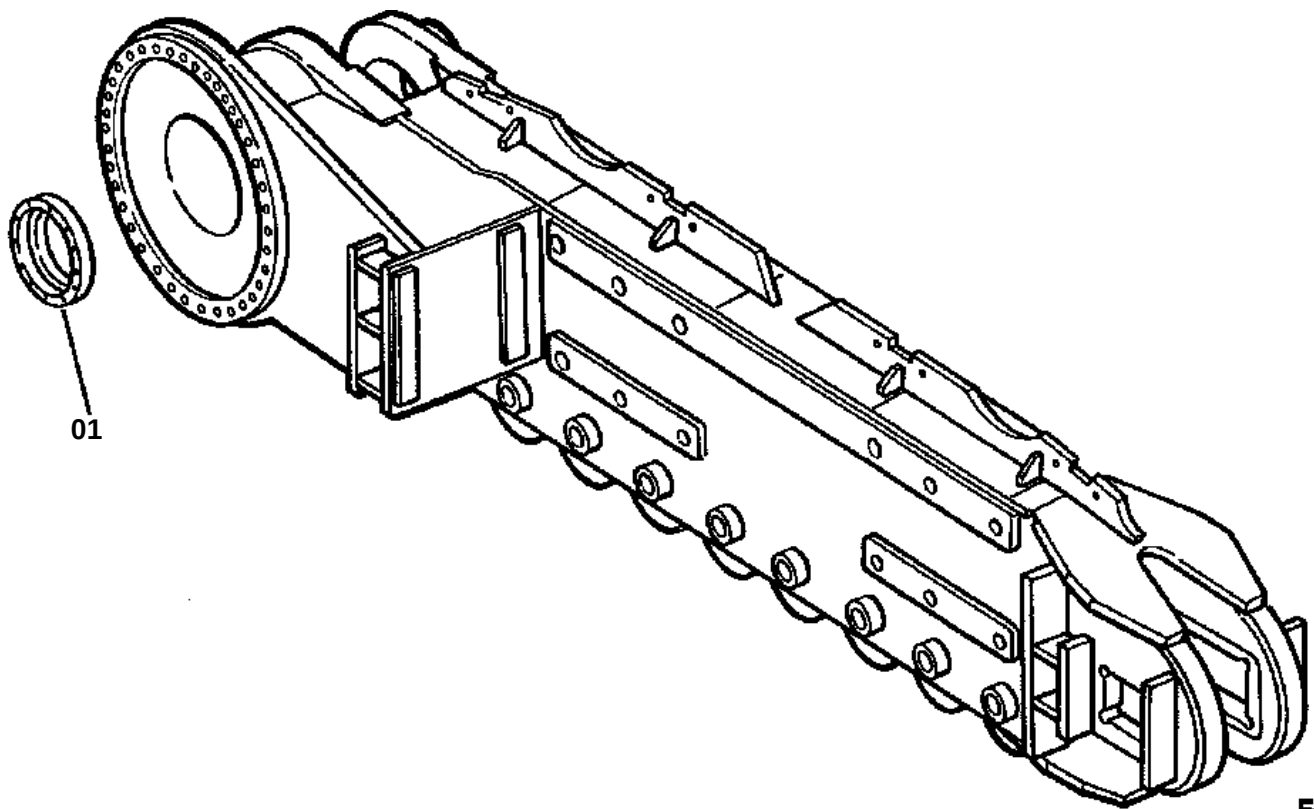
F5203B

CRAWLER FRAME, RIGHT-HAND

[illegible]



CRAWLER FRAME, LEFT-HAND



F5203B



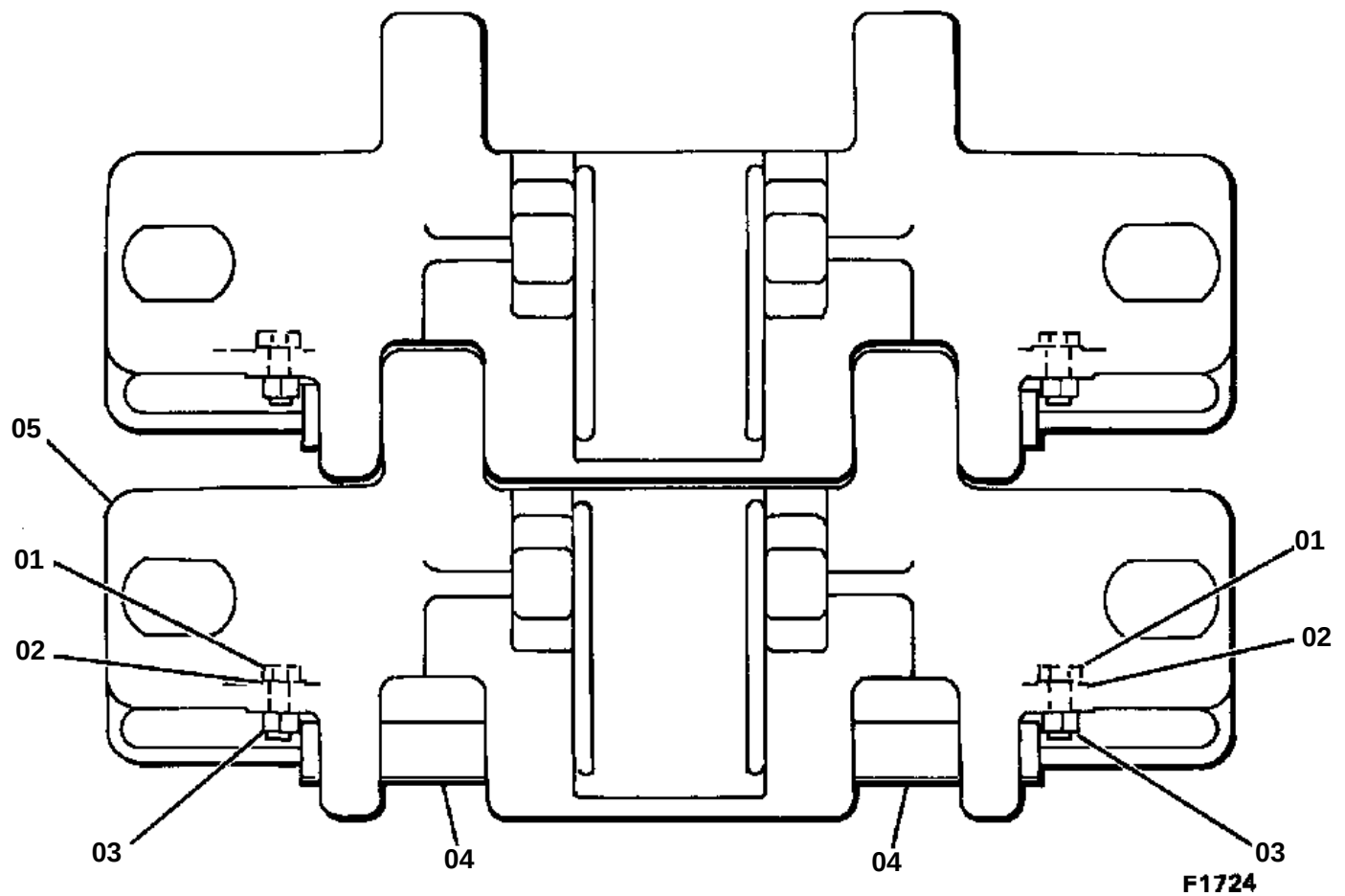
Machine
Serial Number: **4184**

CRAWLER FRAME, LEFT-HAND

[illegible]



TRACK, CRAWLER





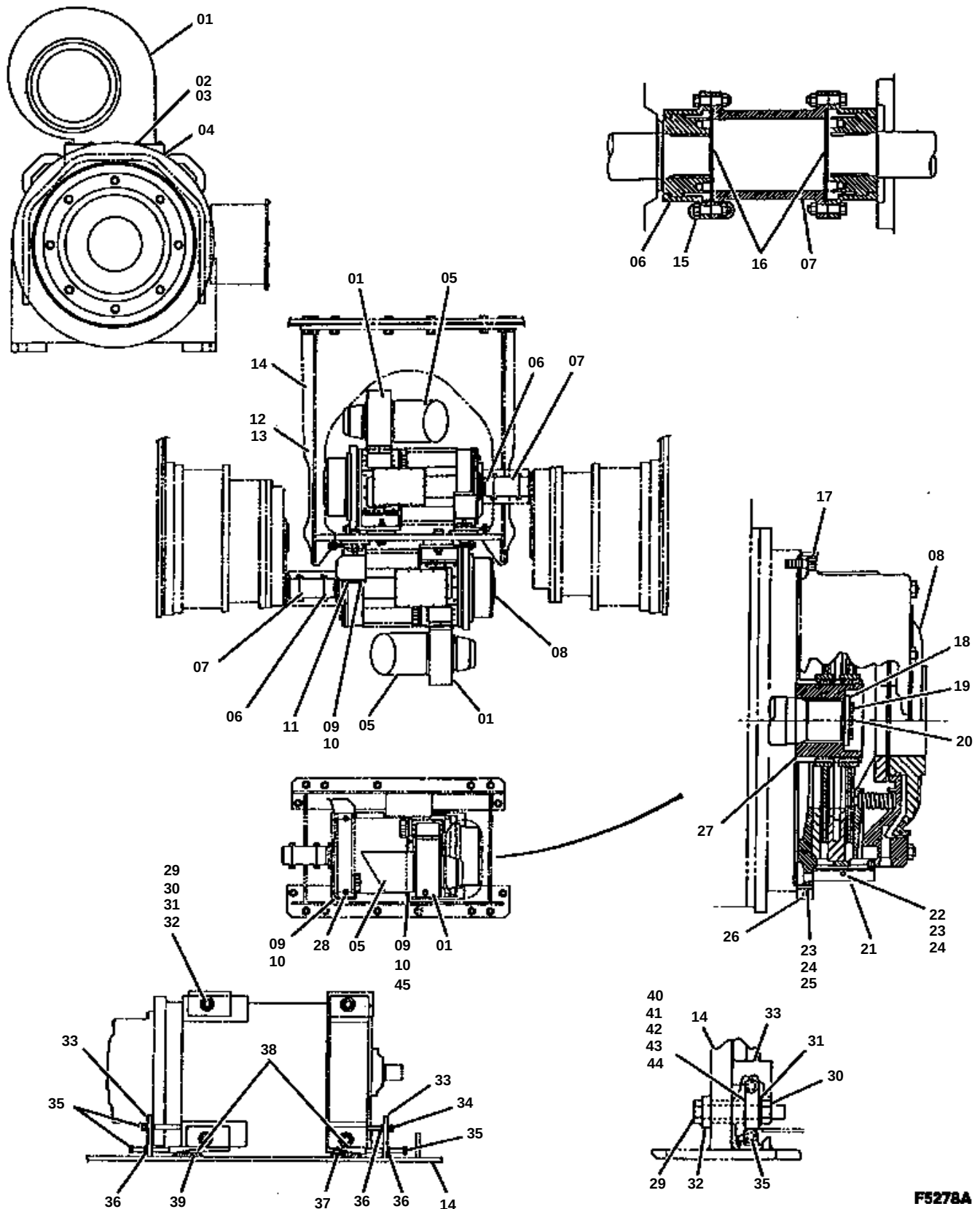
Machine
Serial Number: **4184**

TRACK, CRAWLER

[illegible]



MOTOR MOUNTING, PROPEL



F5278A



MOTOR MOUNTING, PROPEL

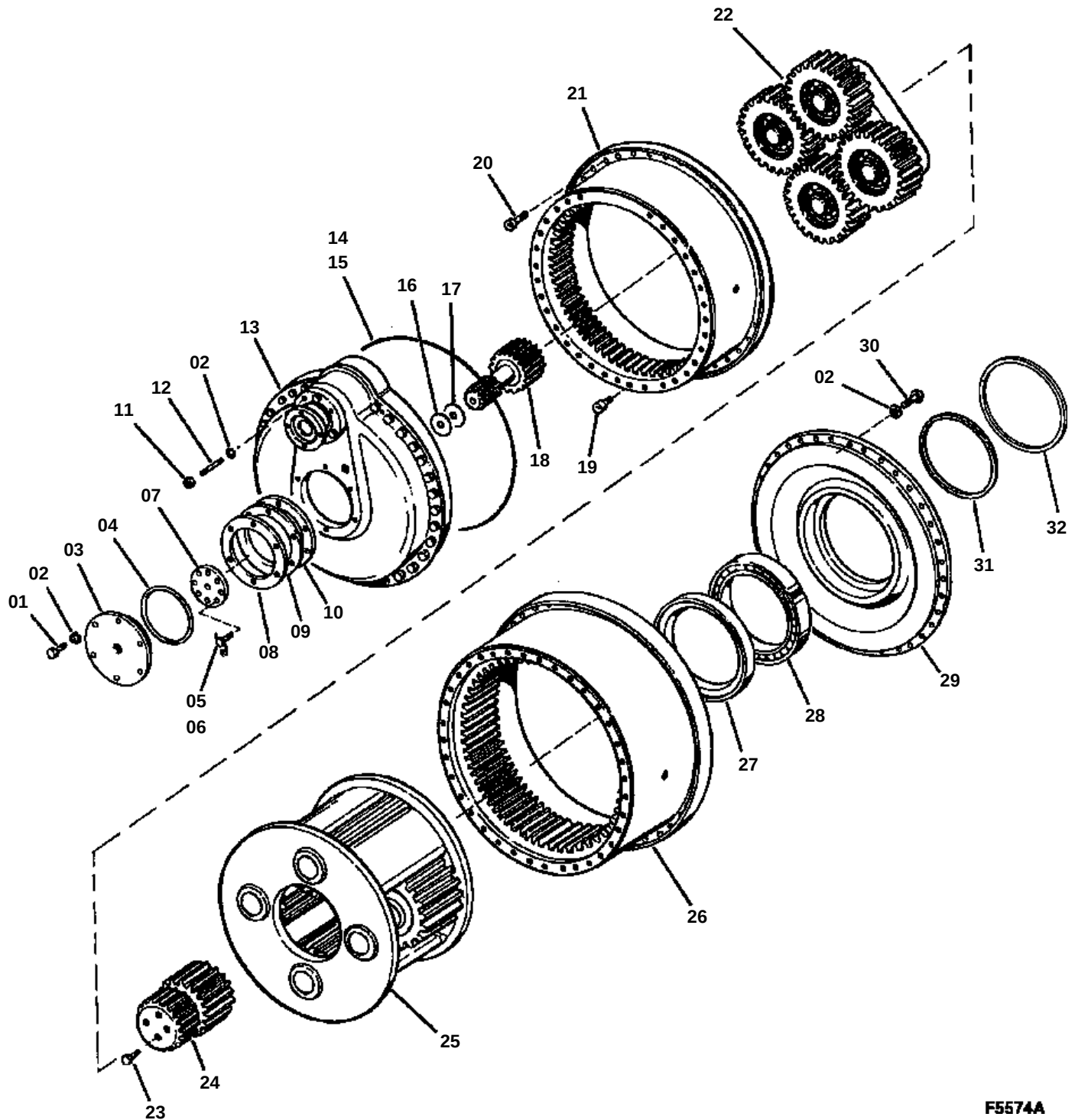
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R10283F2	MOTOR MOUNTING, PROPEL		
01	R21295D1F2	• BLOWER, Propel Motor	2	3-2
(NOTE: Blower is not included with R10283F2)				
02	20Q260D260	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	14	
03	3643V011	• WASHER, Lock 3/8 in - Heavy Duty	14	
04	R10415D1	• SCREEN, Blower	2	
05	R10397D1	• DUCT, Intake	2	
06	18N2391D1	• COUPLING, Half	2	
07	14P3351	• SPACER	2	
08	15R9D4	• BRAKE, Disc	2	
09	20Q260D226	• SCREW, Hex Hd Cap 5/16-18UNC x 1 in	24	
10	3643V010	• WASHER, Lock 5/16 in - Heavy Duty	24	
11	14J1695	• EXHAUST, Elbow	2	
12	20Z480D20	• EYE, Bolt 1-1/4 - 7 UNC	4	
13	20Q279D80	• NUT, Hex 1-1/4-7UNC	4	
14	R17127D1	• BASE, Propel Motor	1	
15	20U41D5	• ACCESSORY KIT	4	
16	18T17845	• COUPLING, Grease Baffle	4	
17	0630V120	• SCREW, Hex Soc Hd Cap 3/4-10UNRC x 2 in	24	
18	18T17537	• RETAINER, Hub	2	
19	20P1858D327	• SCREW, Drill Hd Cap 1/2-13UNC x 1-1/4 in	6	
20	017960057	• TIE WIRE #13 Gauge	2	
21	14P3078D2F2	• BRAKE, Dust Guard	2	
22	20Q260D207	• SCREW, Hex Hd Cap 1/4-20UNC x 4 in	2	
23	3643V009	• WASHER, Lock 1/4 in - Heavy Duty	4	
24	20Q270D16	• NUT, Hex 1/4-20UNC	4	
25	20Q260D201	• SCREW, Hex Hd Cap 1/4-20UNC x 2-1/2 in	2	
26	14P3078D3F3	• BRAKE, Dust Guard	2	
27	15N784D4	• HUB, Brake	2	
28	14P3352	• SCREEN, Exhaust	2	
29	20Q259D694	• SCREW, Hex Hd Cap 1-1/2-6UNC x 9 in	8	
30	20Q270D96	• NUT, Hex 1-1/2-6UNC	8	
31	18Z694D14	• WASHER, Hardened 1-1/2 in	8	
32	18T17620	• WASHER	8	
33	18P8643	• PLATE, Tapped	4	
34	20H3169D268	• BOLT, Tap 1-8UNC x 5-1/2 in	2	

MOTOR MOUNTING, PROPEL

REF	PART NO.	DESCRIPTION	QTY	PAGE
35	20H3169D275	• BOLT, Tap 1-8UNC x 9 in	6	
36	20Q270D64	• NUT, Hex 1-8UNC	8	
37	16T9335D2	• WEDGE	2	
38	16T9334	• WEDGE	4	
39	16T9335D1	• WEDGE	2	
40	20T9707D1	• SHIM	16	
41	20T9707D2	• SHIM	16	
42	20T9707D3	• SHIM	24	
43	20T9707D4	• SHIM	16	
44	20T9707D5	• SHIM	16	
45	20Q270D20	• NUT, Hex 5/16-18 UNC	8	



TRANSMISSION, PROPEL



F5574A



TRANSMISSION, PROPEL

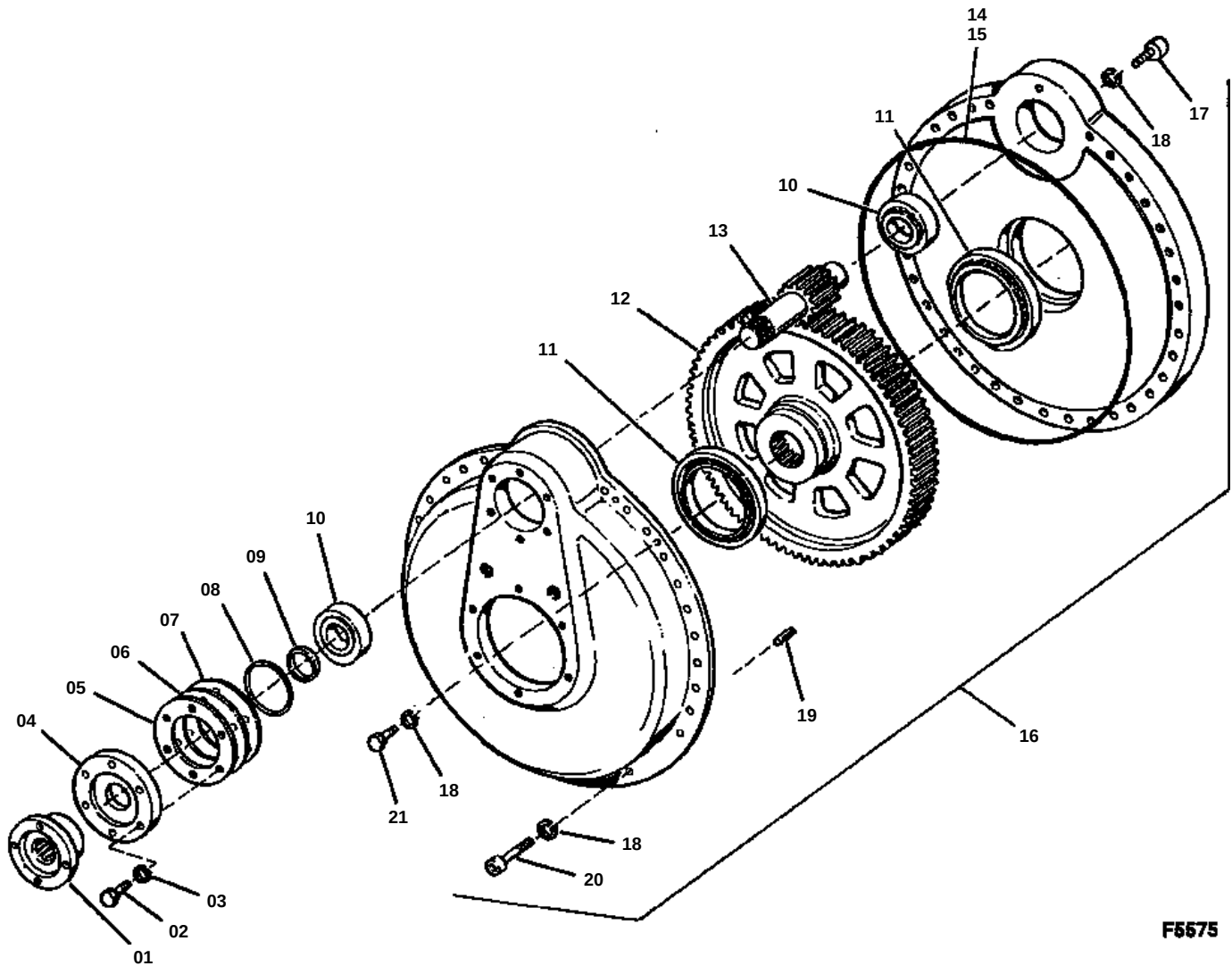
REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J5800F5	TRANSMISSION, PROPEL		
01	20Q260D449	• SCREW, Hex Hd Cap 3/4-10UNC x 2-1/4 in	6	
02	18Z1732D8	• WASHER, Conical Lock 3/4 in	44	
03	25P1260	• RETAINER, Bearing	1	
04	45Z91D8	• O-RING	1	
05	20P1858D404	• SCREW, Drill Hd Cap 5/8-11UNC x 2 in	8	
06	017960059	• WIRE, Tie #12 Ga x 48 in	AR	
07	18T17605	• PLATE, Retainer	1	
08	20Q365D4	• SHIM, .020	4	
09	20Q365D5	• SHIM, .0075	3	
10	20Q365D6	• SHIM, .005	3	
11	20Q270D48	• NUT, Hex 3/4-10UNC	2	
12	20T9921C1	• STUD, 3/4 x 15-1/2 in	2	
13	901J57F2	• HOUSING, 1st Reduction	1	7-17
14	45Z606D159	• O-RING	1	
15	21Z516D2	• ADHESIVE	AR	
16	20N426D41	• SHIM, .0598	3	
17	20N426D42	• SHIM, .020	2	
18	1J339D1C1	• PINION, Sun	1	
19	0630V125	• SCREW, Hex Soc Hd Cap 3/4-10UNRC x 3-1/4 in	1	
20	0630V156	• SCREW, Soc Hd Cap 1-8UNC x 3-1/2 in	35	
21	1J262	• RING GEAR, 2nd Reduction	1	
22	901J55F2	• CARRIER, 2nd Reduction	1	7-18
23	20Q260D539	• SCREW, Hex Hd Cap 1-8UNC x 3 in	4	
24	1P1601	• PINION, 3rd Reduction, Sun	1	
25	901J56F3	• CARRIER, 3rd Reduction	1	7-19
26	1J261	• RING GEAR, 3rd Reduction	1	
27	R32781D1	• SPACER	1	
28	25Q107D2	• BEARING, Roller	1	
29	R32707D1	• HOUSING, Output	1	
30	20Q260D451	• SCREW, Hex Hd Cap 3/4-10UNC x 2-3/4 in	36	
31	18Z3704D4	• SEAL, Oil	1	
32	18Z3638D8	• RING, Sprial lock	1	
	21Z772D12	• ADHESIVE (Not Shown)	AR	
	21Z587D11	• SEALANT, Silicone (Not Shown)	AR	
	918N47F1	• FILL/DRAIN, Propel Transmission (Not Shown)	1	7-20
	P&H Spec 499	• GREASE, Sealing (Not Shown)	AR	

TRANSMISSION, PROPEL

[illegible]



HOUSING, 1st REDUCTION



F5575



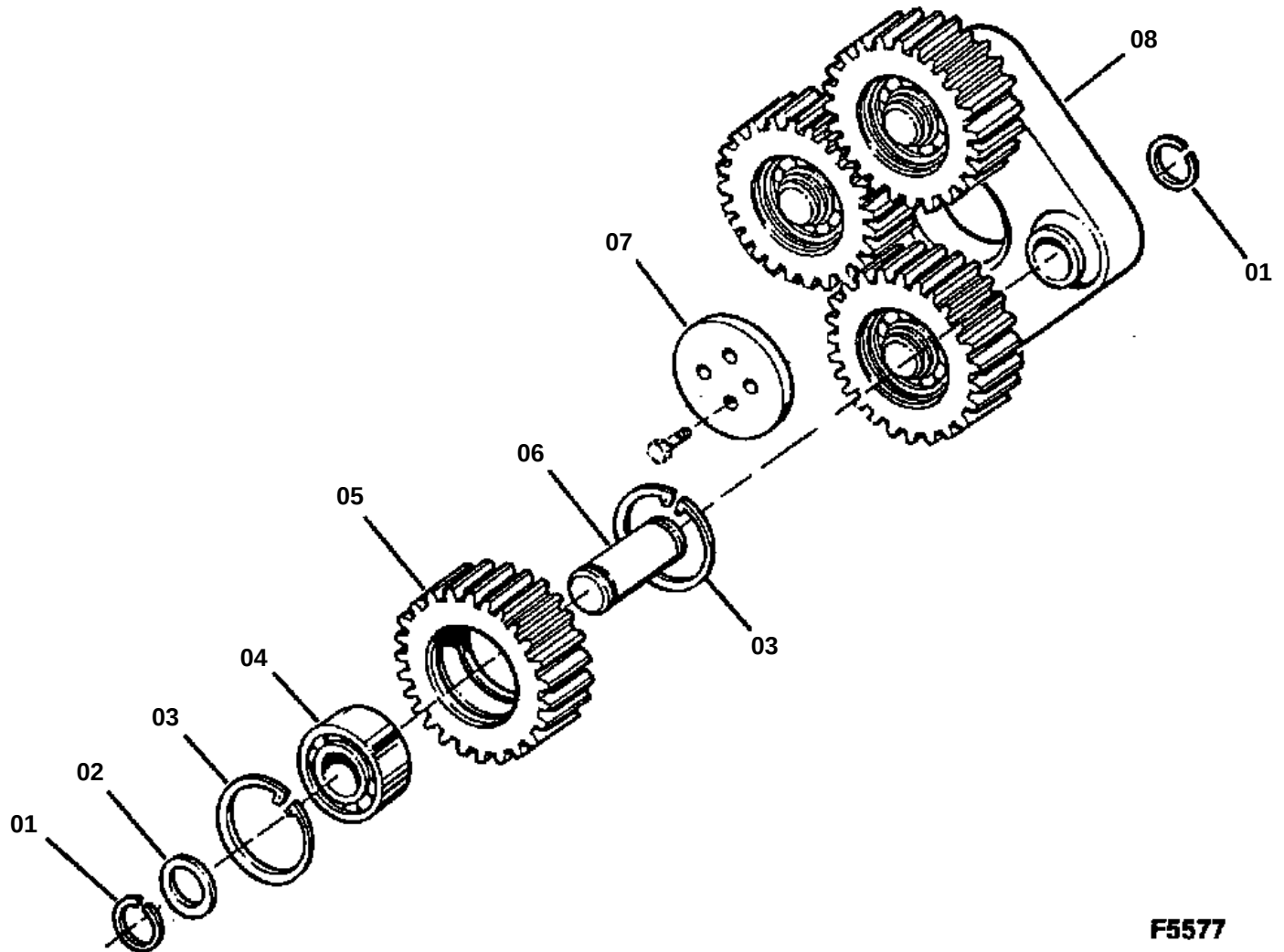
Machine Serial Number: **4184**

HOUSING, 1st REDUCTION

REF	PART NO.	DESCRIPTION	QTY
	901J57F2	HOUSING, 1st REDUCTION	
01	18N2391D1	· COUPLING HALF, Flexible	1
02	20Q260D451	· SCREW, Hex Hd Cap 3/4-10UNC x 2-3/4 in	4
03	18Z1732D8	· WASHER, Conical Lock 3/4 in	4
04	25P1259D2	· RETAINER	1
05	20Q374D1	· SHIM, .020	3
06	20Q374D2	· SHIM, .0075	3
07	20Q374D3	· SHIM, .005	3
08	45Z91D310	· O-RING	1
09	18F682D166	· SEAL	1
10	25Z259D33	· BEARING, Tapered Roller	2
11	25Z259D291	· BEARING, Tapered Roller	2
12	1N1497C2	· GEAR, 1st Reduction, Propel	1
13	1N1568D1	· SHAFT, Pinion	1
14	45Z606D159	· O-RING	1
15	21Z516D2	· ADHESIVE	1
16	914J331F1	· HOUSING	1
17	0630V127	· · SCREW, Hex Soc Hd Cap 3/4-10UNRC x 4 in	2
18	18Z1732D8	· · WASHER, Conical Lock 3/4 in	39
19	19Z138D134	· · PIN, Dowel	3
20	0630V130	· · SCREW, Hex Soc Hd Cap 3/4-10UNRC x 5 in	33
21	20Q260D450	· · SCREW, Hex Hd Cap 3/4-10UNC x 2-1/2 in	4



CARRIER, 2nd REDUCTION



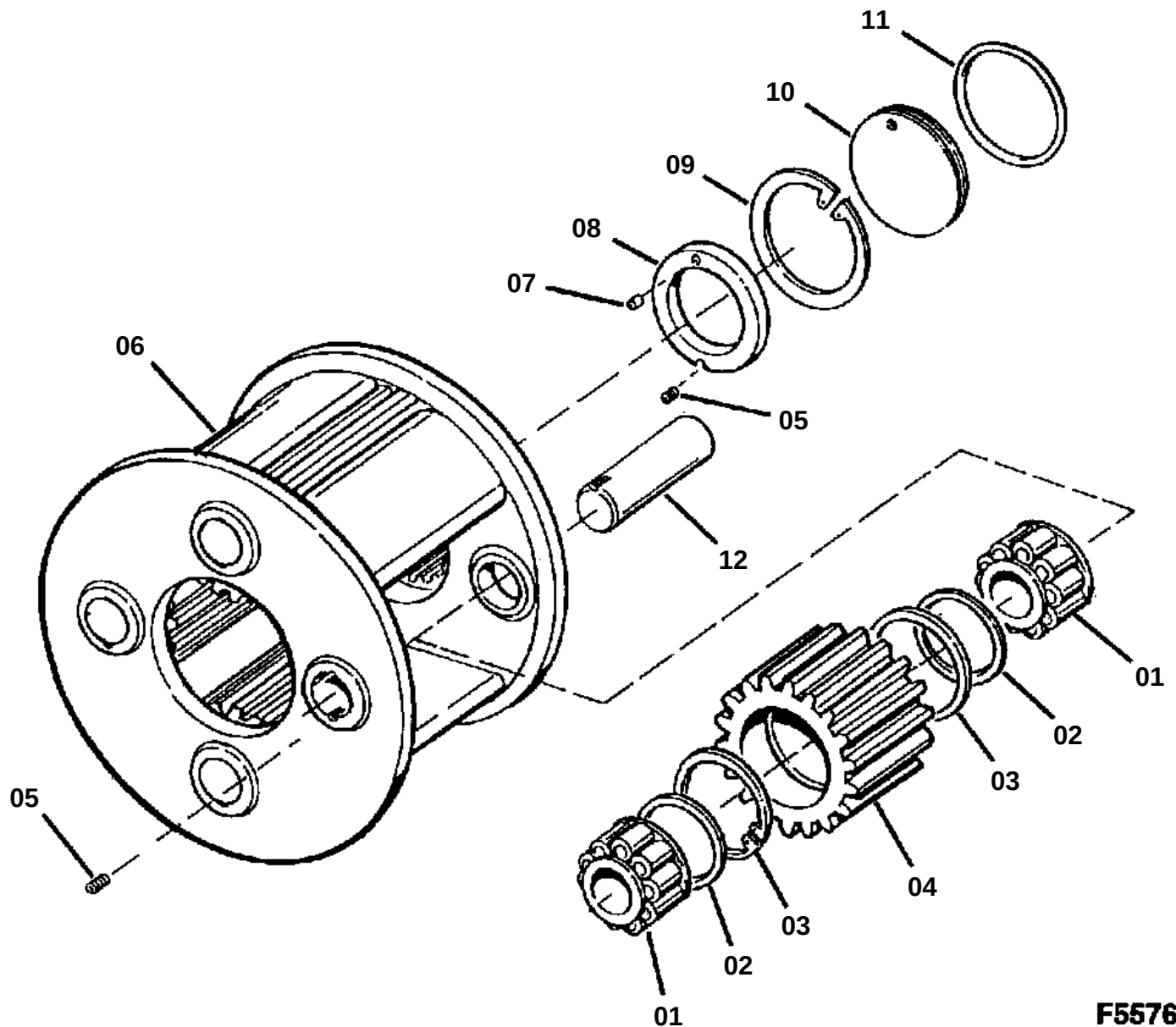
F5577

CARRIER, 2nd REDUCTION

REF	PART NO.	DESCRIPTION	QTY
	901J55F2	CARRIER, 2nd REDUCTION	
01	18Z3107D17	• RING, Snap - External	8
02	18Z3384	• RING, Support	4
03	18Z3107D18	• RING, Snap - Internal	8
04	25Z539D16	• BEARING, Spherical Roller	4
05	R4418F1	• KIT - PINION, 2nd Reduction, Planetary (Set of 4)	1
06	19T6404	• PIN	4
07	18P8878D1	• RETAINER	1
08	22J1719	• CARRIER	1



CARRIER, 3rd REDUCTION



F5576



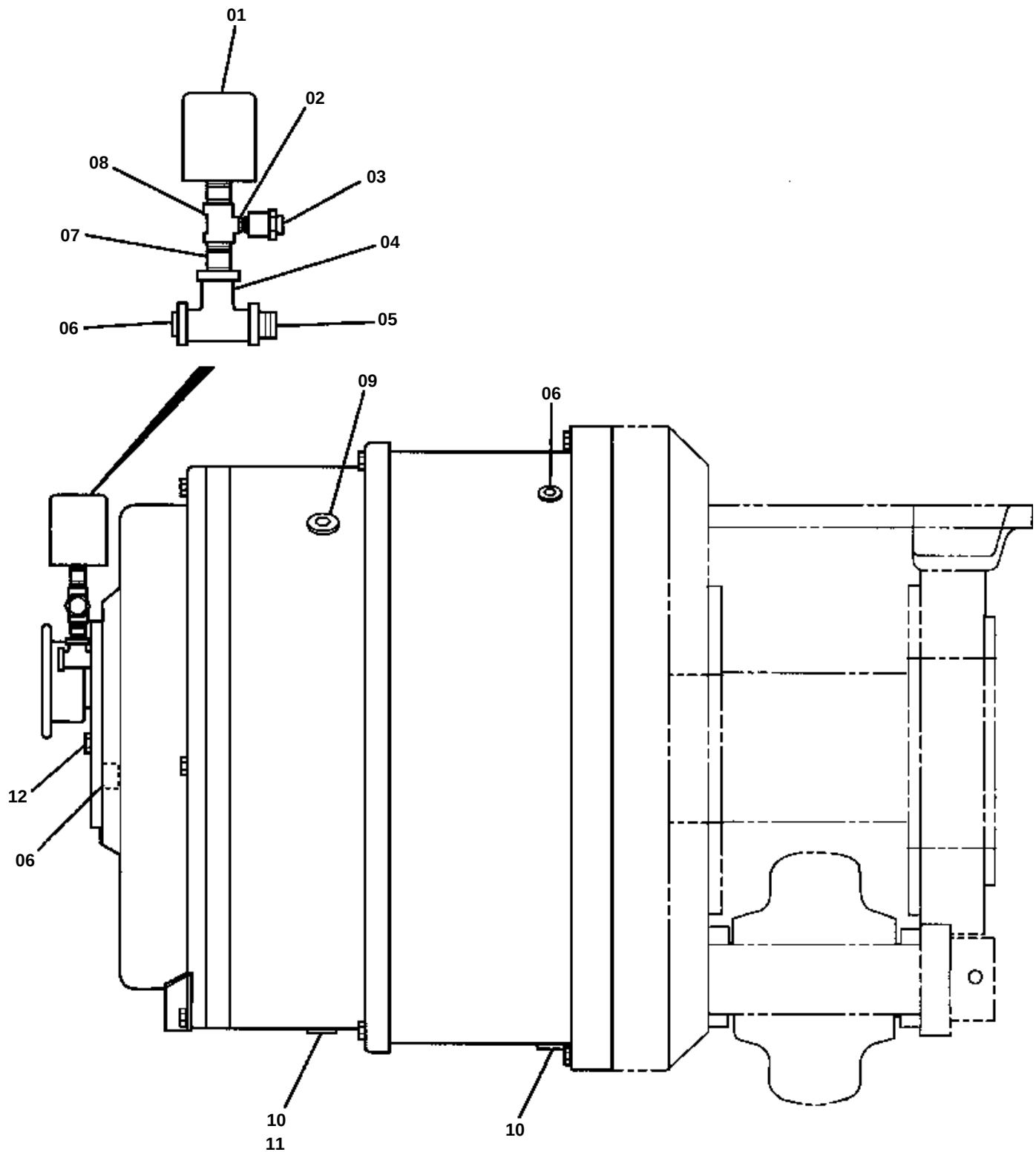
Machine Serial Number: **4184**

CARRIER, 3rd REDUCTION

REF	PART NO.	DESCRIPTION	QTY
	901J56F3	CARRIER, 3rd REDUCTION	
01	25Z1207D1	• BEARING, Roller	8
02	18Z3385D1	• SPACER	8
03	18Z2082D98	• RING, Snap - Internal	8
04	R4418F3	• KIT - PINION, 3rd Reduction, Planetary (Set of 4)	1
05	20Z1221D3	• SCREW, Self Locking 3/8-16UNC x 1/2 in	10
06	R31994D2	• CARRIER	1
07	819H67D47	• PIN, Groove 1/2 x 1-3/4 in	1
08	R32774D1	• BUSHING	1
09	18Z3638D7	• RING, Snap - Internal	1
10	R32778D1	• PLATE	1
11	45Z91D181	• O-RING	1
12	19T6405	• PIN	4



FILL/DRAIN, PROPEL TRANSMISSION



F5578



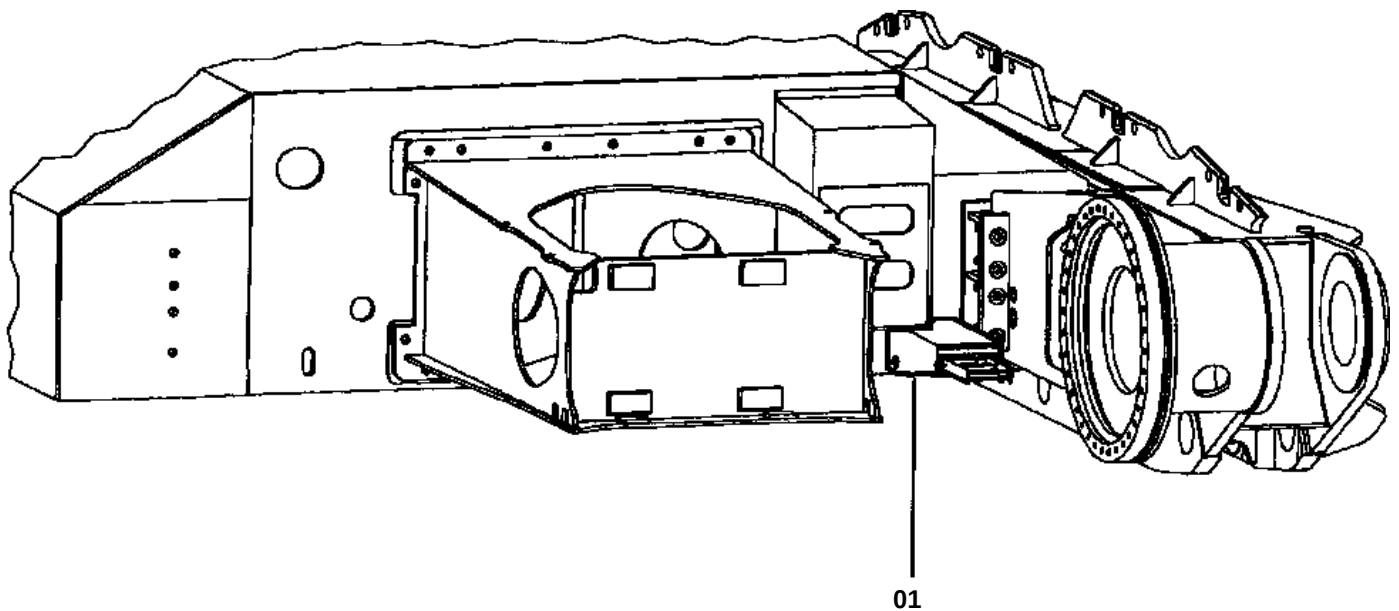
Machine
Serial Number: **4184**

FILL/DRAIN, PROPEL TRANSMISSION

[illegible]



ACCESS STAIRS, LOWER



F6933

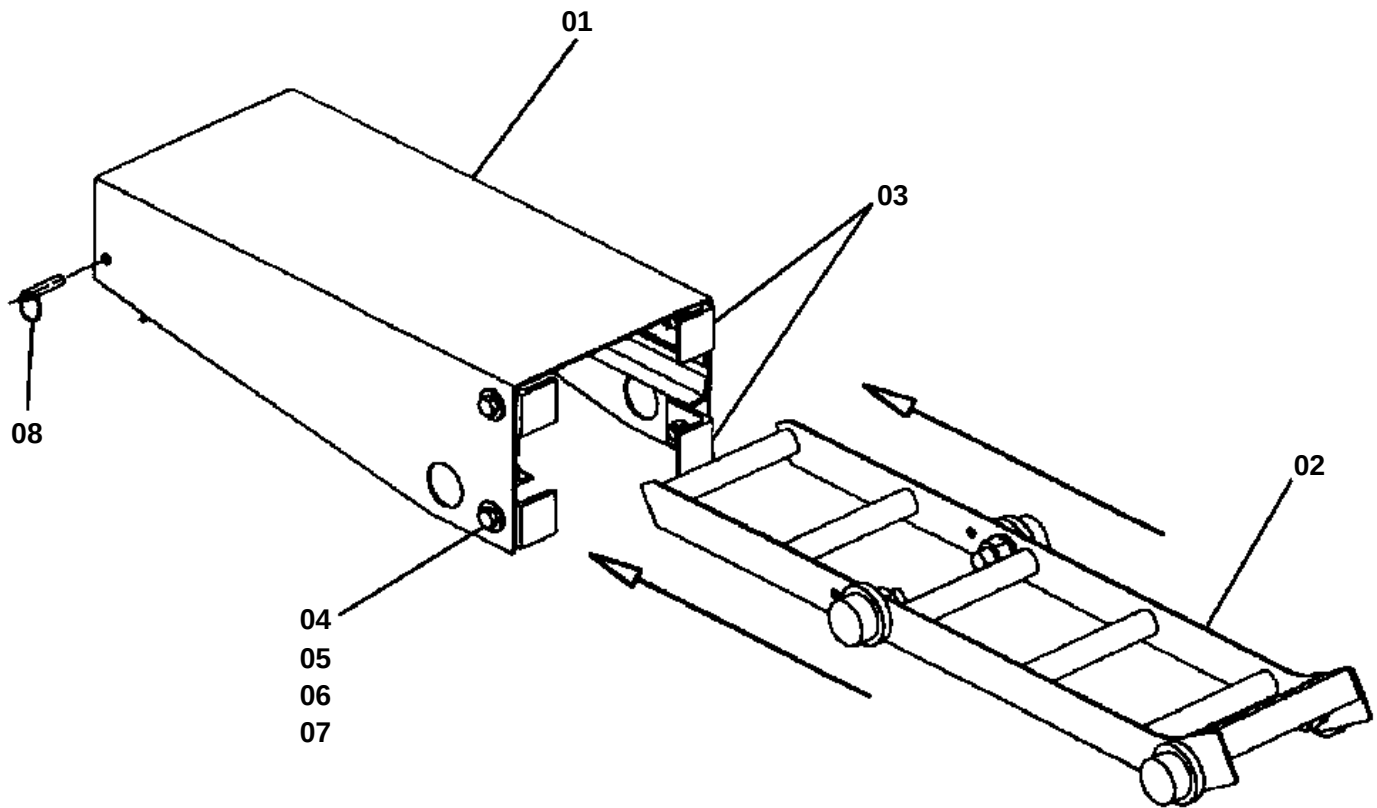
Machine
Serial Number: 4184

ACCESS STAIRS, LOWER

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R32611F1	ACCESS STAIRS, LOWER		
01	R32610F1	• STAIRS, Access	1	7-22



LADDER, ACCESS STAIRS



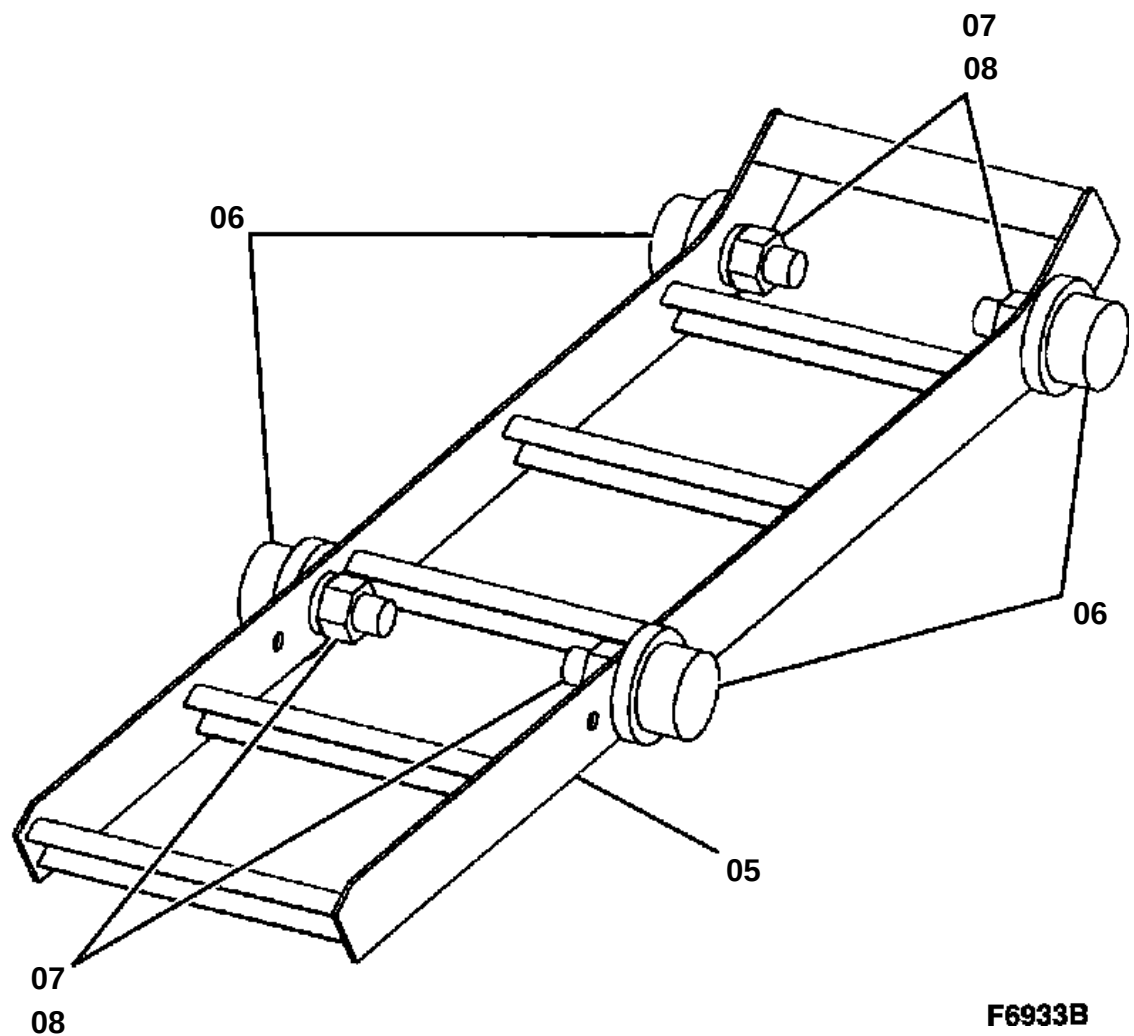
F6933A

LADDER, ACCESS STAIRS

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R32610F1	LADDER, ACCESS STAIRS		
01	R32608D1	• BRACKET, Stair	1	
02	R32609F1	• LADDER	1	7-23
03	16N3393D69	• ANGLE, Mounting	4	
04	20Q260D447	• SCREW, Hex hd cap 3/4-10UNC x 1-3/4 in lg	4	
05	20Q270D48	• NUT, Hex 3/4-10UNC	4	
06	3616V015	• WASHER, Lock 3/4 in	4	
07	3632V009	• WASHER, Plain 3/4 in	4	
08	19Z296D101	• PIN, Quick release	2	



LADDER



F6933B



Machine
Serial Number: **4184**

LADDER

[illegible]

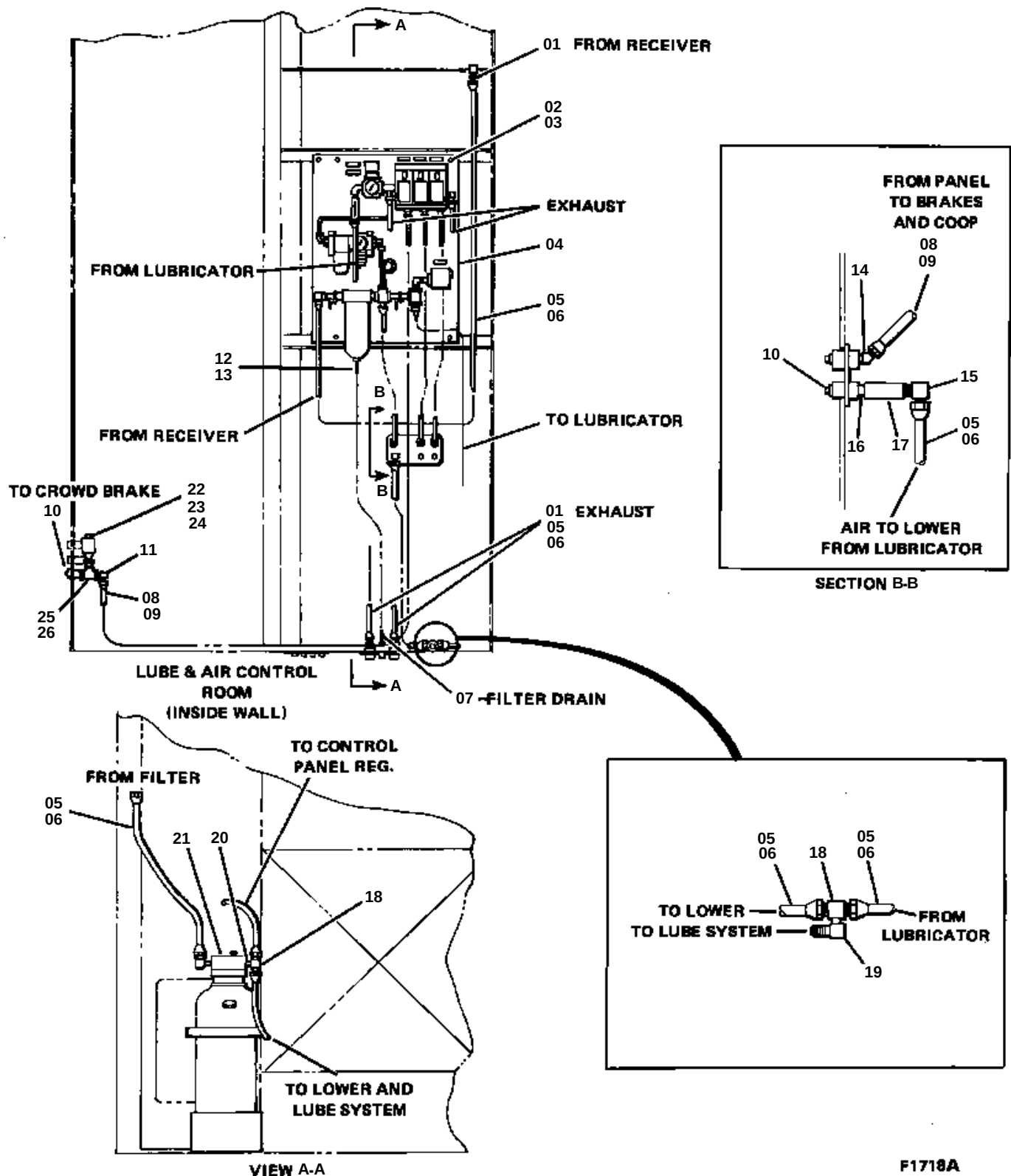


Group 8 - Air System

Description	Page
CONTROLS, AIR PIPING	8-1
AIR PIPING, UPPER	8-3
AIR PIPING, LOWER	8-6
CONTROL PANEL, AIR SYSTEM, LOWER	8-7
CABINET, REMOTE I/O LOWER	8-8
AIR PIPING, BOOM	8-10
CONTROLLER, STAIRWAY - RIGHT HAND	8-9
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AIR TANK, COMPRESSOR, LH ROOM REWORK	8-31
AIR TANK(RECIEVER) PIPING	8-32



CONTROLS, AIR PIPING



F1718A

CONTROLS, AIR PIPING

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6250F2	CONTROLS, AIR PIPING		
01	44Z590D17	• ADAPTER, Pipe - Male/JIC 3/4 in	2	
02	20Q260D323	• SCREW, Hex Hd Cap 1/2 -13UNC X 3/4 in	4	
03	3616V011	• WASHER, Lock 1/2 in	4	
04	914J392F1	• PANEL, Control	1	8-2
05	44Z1319D40	• HOSE, Low Pressure 3/4 I.D.	1	
06	44Q3D17	• HOSE END, Swivel/JIC	14	
07	44Z219D5	• CONNECTOR, Male 1/4-1/4	1	
08	44Z1317D20	• HOSE, Low Pressure 1/2 I.D.	1	
09	44Q3D12	• HOSE END, Swivel/JIC	8	
10	44Z992D7	• PLUG, Pipe 1/2 in	9	
11	44Z591D13	• ADAPTER, Pipe 90°/JIC 1/2 in	1	
12	44Z219D4	• CONNECTOR, Male 1/4 - 1/2	1	
13	020450042	• TUBE, 1/4 O.D. x 5' (.032W)	AR	
14	44Z898D11	• ADAPTER, Pipe 45°/JIC 1/2 in	3	
15	44Z591D15	• ADAPTER, Pipe Male/JIC 90° 3/4 in	1	
16	2420V134	• NIPPLE, Close 3/4	1	
17	36Z1245D2	• VALVE, Check	1	
18	44Z725D8	• PIPE, Female/JIC 90° 3/4 in	2	
19	44Z591D14	• ADAPTER, Pipe 90°/JIC 3/4 in	1	
20	2420V140	• NIPPLE, Pipe 3/4 X f3 in lg (Galvanized)	1	
21	100T386F2	• LUBRICATOR, Air	1	8-18
22	2420V035	• NIPPLE, Close 1/4	1	
23	2402V004	• REDUCER, Pipe 1/2 - 1/4	1	
24	79Z3138	• SWITCH, Pressure	1	
25	2426V004	• TEE, Pipe 1/2	1	
26	2420V102	• NIPPLE, Close 1/2	1	
NS	44Z12D18	• CLAMP, Hose 1/2	8	
NS	44Z12D7	• CLAMP, Hose 3/4	14	

Technical drawing of the F144 hydraulic system, showing a detailed schematic of the pump, filter, pressure gauges, and solenoid valves with numbered callouts from 01 to 47.

F1440A



PANEL, AIR, UPPER

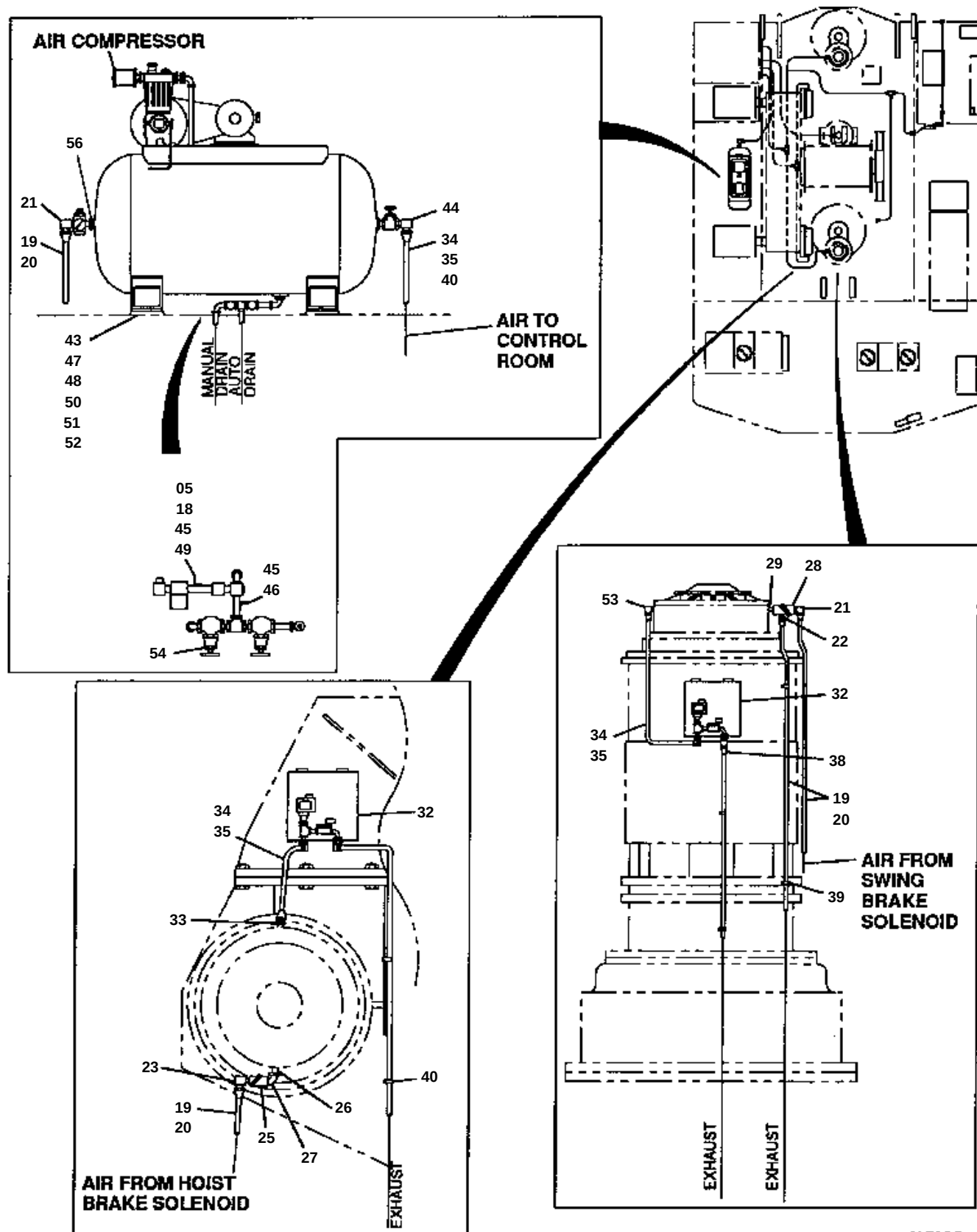
REF	PART NO.	DESCRIPTION	QTY	PAGE
	914J392F1	PANEL, AIR, UPPER		
01	16T9013	• PLATE, Mounting	1	
02	32Z1926D12	• NAMEPLATE	1	
03	32Z1926D26	• NAMEPLATE	1	
04	20Z40D3	• SCREW, Self Tap #4 X 1/4 in lg.	14	
05	36Z1604D2	• REGULATOR, Air Pressure	1	8-23
06	2420V109	• NIPPLE, Pipe 1/2 X 3 in lg.	2	
07	32Z1926D2	• NAMEPLATE	1	
08	32Z1926D1	• NAMEPLATE	1	
09	32Z1926D3	• NAMEPLATE	1	
10	36Q346D7	• VALVE ASSEMBLY	1	8-14
11	R19174D1	• BRACKET, Mounting, Valve Assembly	1	
12	44Z591D17	• ADAPTER, JIC/90° Male Pipe 3/4 in	2	
13	20Q260D201	• SCREW, Hex Hd Cap 1/4-20UNC X 2-1/2 in	4	
14	3616V007	• WASHER, Lock 1/4 in	12	
15	44Z590D13	• ADAPTER, JIC/Male Pipe	3	
16	32Z1926D32	• NAMEPLATE	1	
17	79Z3138	• SWITCH, Pressure	1	
18	2420V035	• NIPPLE, Close 1/4 in (Galvanized)	1	
19	2417V019	• ELBOW, Street 1/4 X 90°	1	
20	2402V007	• REDUCER, Pipe 1/4-1/4 in (Galvanized)	1	
21	2426V005	• TEE, Pipe 3/4 in	1	
22	44Z590D17	• ADAPTER, JIC/Male Pipe 3/4 in	1	
23	44Z590D14	• ADAPTER, JIC/Male Pipe 3/4 in	1	
24	2462V005	• CROSS, Pipe 3/4 in (Galvanized)	1	
25	2420V134	• NIPPLE, Close 3/4 in (Galvanized)	1	
26	46Z355D4	• FILTER, Air	1	8-26
27	2420V144	• NIPPLE, Pipe 3/4 X 4 in lg (Galvanized)	2	
28	20Q3D12	• U-BOLT	2	
29	20Q270D16	• NUT, Hex 1/4-20UNC	4	
30	16T7977	• BRACKET	2	
31	44Z574D8	• ADAPTER, JIC/90° Female Pipe	1	
32	32Z1927	• NAMEPLATE	1	
33	46Z515	• FILTER/REGULATOR ASSEMBLY	1	8-27
34	718N233D146	• MOUNTING, Filter/Regulator	2	
35	20Q260D191	• SCREW, Hex Hd Cap 1/4-20UNC X 5/8 in	4	
36	44Z220D5	• CONNECTOR, 90° Male Pipe 1/4T-1/4P	2	

PANEL, AIR, UPPER

[illegible]

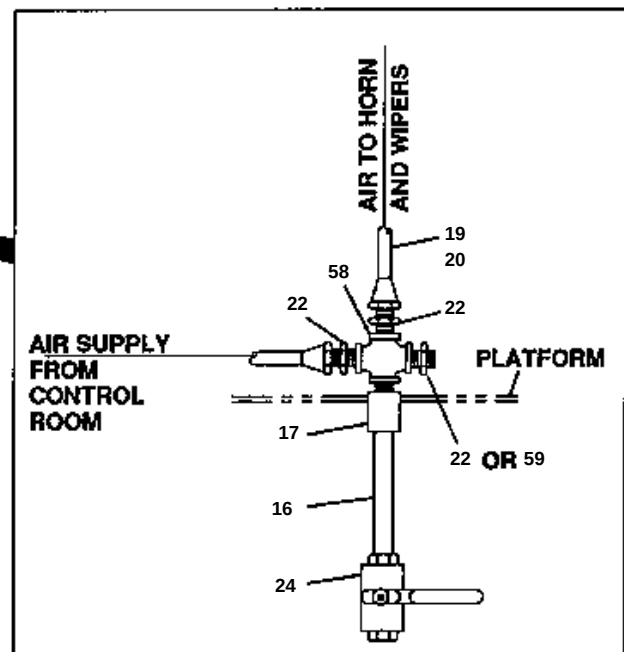
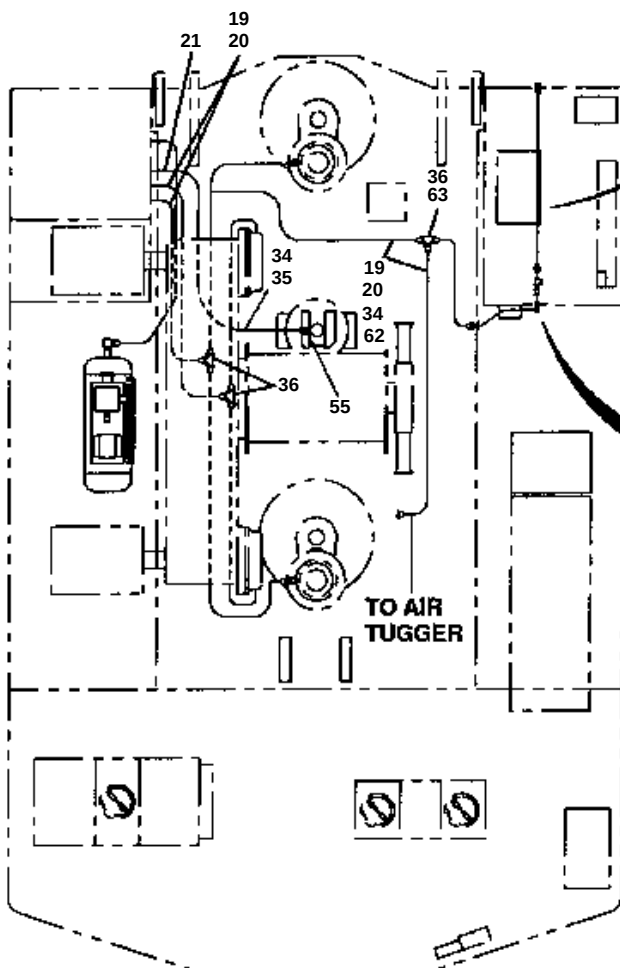
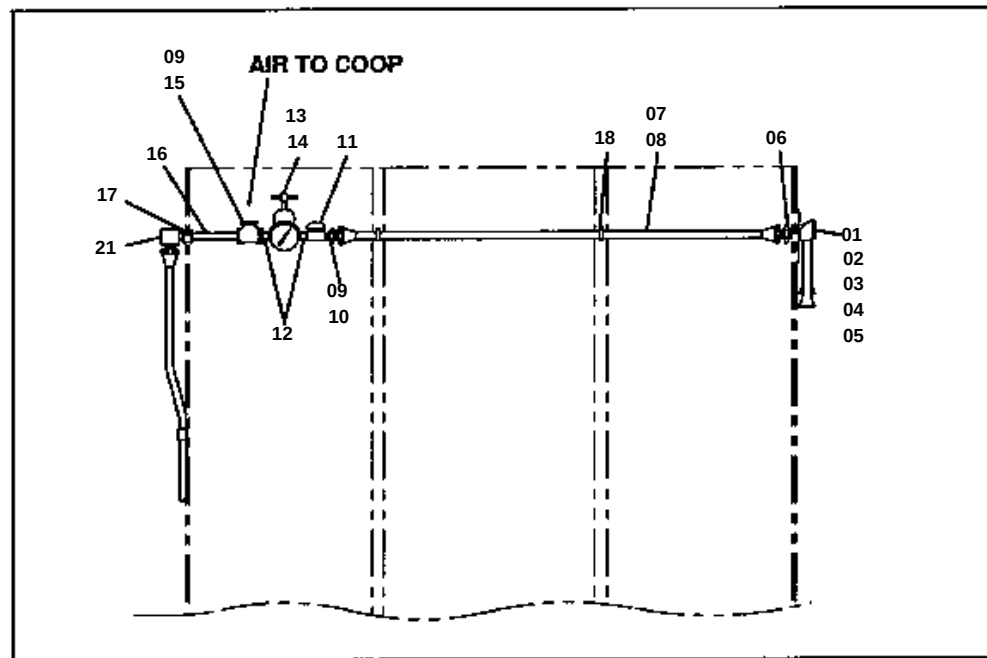


AIR PIPING, UPPER



F3709C

AIR PIPING, UPPER

**F3709G**



AIR PIPING, UPPER

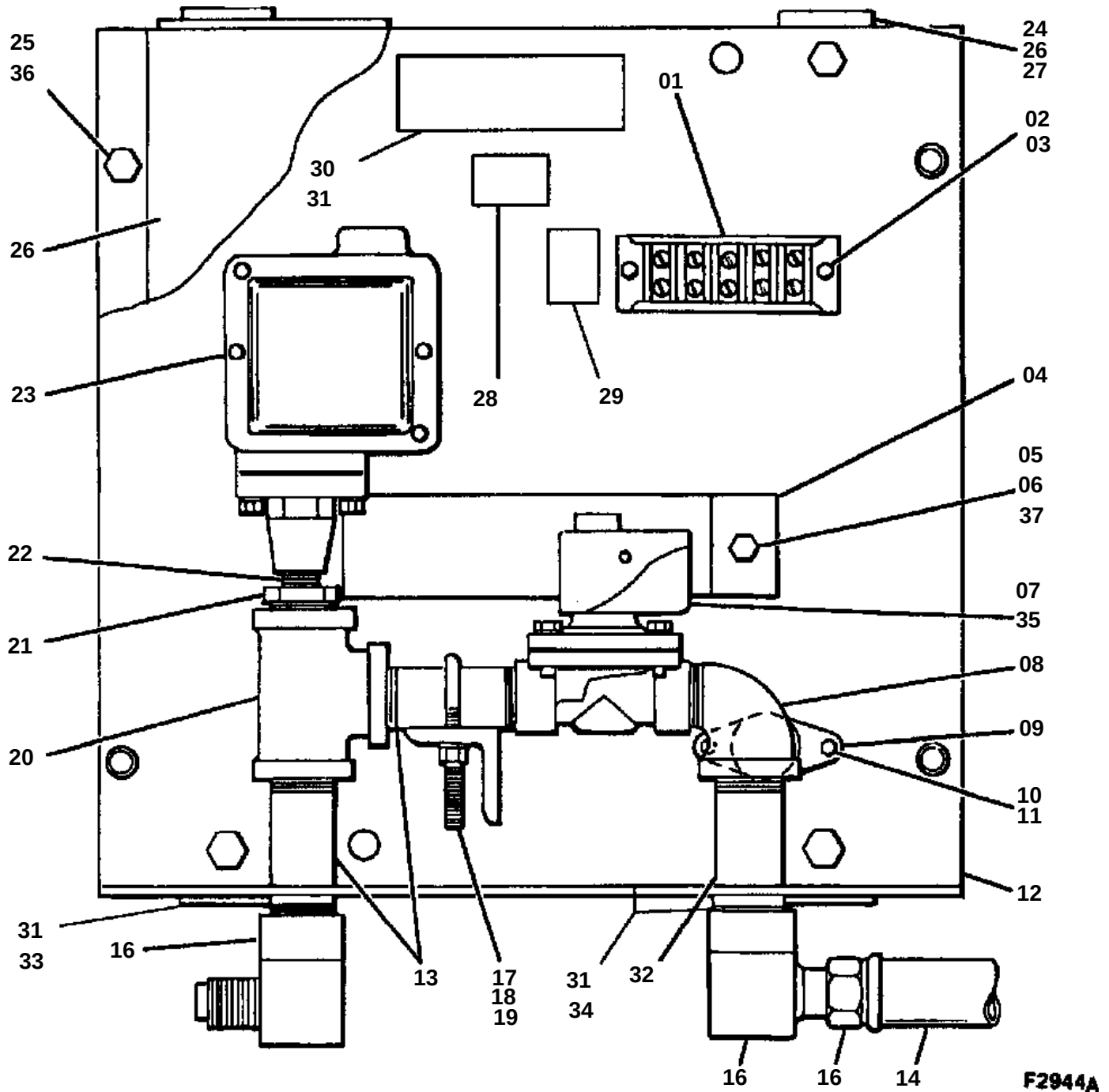
REF	PART NO.	DESCRIPTION	QTY	PAGE
	944J427F1	AIR PIPING, UPPER		
01	47Z111	• HORN, Air	1	
02	16P6693	• BRACKET, Air Horn	1	
03	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in	2	
04	20Q270D16	• NUT, Hex 1/4-20UNC	2	
05	3616V007	• WASHER, Lock 1/4 in	2	
06	44Z2432D1	• ADAPTER	1	
07	44Z1315D9	• HOSE, Low Pressure 1/4 in	1	
08	44Q3D1	• SWIVEL, JIC Hose End	2	
09	2402V004	• PIPE, Reducer 1/2 x 1/2 in	2	
10	44Z590D41	• ADAPTER, JIC Male Pipe	1	
11	36Z1193D2	• VALVE, Air Solenoid	1	8-21
12	2420V102	• NIPPLE, Close 1/2 in	2	
13	36Z1604D1	• REGULATOR, Air	1	8-22
14	32Z1926D12	• NAMEPLATE	1	
15	2426V004	• TEE, Pipe 1/2 in	2	
16	2420V121	• NIPPLE, Pipe 1/2 x 6 in lg	2	
17	2439V004	• COUPLING, Pipe 1/2 in	2	
18	0911V012	• CLAMP, Hose 1/4 in	3	
19		NOT USED		
20	44Q3D12	• SWIVEL, JIC Hose End	21	
21	44Z591D13	• ELBOW, JIC Male Pipe 90 deg.	6	
22	44Z590D13	• ADAPTER, JIC Male Pipe	6	
23	44Z591D14	• ELBOW, JIC Male Pipe 90 deg.	4	
24	36Q511D3	• VALVE, Locking Ball	1	
25	36Z240D12	• VALVE, Quick Release	2	8-20
26	2451V138	• NIPPLE, Pipe 3/4 x 2-1/2 in	2	
27	2458V020	• ELBOW, Street 3/4 in x 90 deg.	2	
28	36Z240D11	• VALVE, Quick Release	2	8-19
29	2451V107	• NIPPLE, Pipe 1/2 X 2-1/2 IN	2	
30		NOT USED		
31		NOT USED		
32	100J6186F1	• PANEL, Air Solenoid	4	8-4
33	44Z590D17	• ADAPTER, JIC Male Pipe	4	
34	44Q3D17	• SWIVEL, JIC Hose End	13	
35	44Z1319D60	• HOSE, Low Pressure 3/4 in	1	
36	44Z491D6	• TEE, Union	2	

AIR PIPING, UPPER

[illegible]



PANEL, AIR SOLENOID





PANEL, AIR SOLENOID

REF	PART NO.	DESCRIPTION	QTY
	100J6186F1	PANEL, AIR SOLENOID	
01	79Z906D5	· BLOCK, Terminal	1
02	0860V055	· SCREW, Rnd Hd Mach #8 x 1/2 in	2
03	18H4144D4	· WASHER, External Lock #8	2
04	80Z112D11	· HEATER, Strip 150W-120V	1
05	20Q260D189	· SCREW, Hex Hd Cap 1/4-20UNC x 1/2 in	2
06	3616V006	· WASHER, Lock #12	2
07	36Q524D2	· VALVE, Air Solenoid	1
08	2417V020	· ELBOW, Street 3/4 in	1
09	89Z904D1	· THERMOSTAT	1
10	20Z41D9	· SCREW, Hex Hd Tapping #6 x 3/8 in	2
11	18H4144D3	· WASHER, External Lock #6	2
12	16N3512	· PANEL	1
13	2420V140	· NIPPLE, Pipe 3/4 x 3 in lg	2
14	44Z1319D8	· HOSE, Low Pressure 3/4 I.D.	1
15	44Q3D17	· HOSE END, JIC/Swivel	1
16	44Z574D8	· ELBOW, Street 90 deg.	2
17	20Q3D11	· U-BOLT	1
18	20Q270D16	· NUT, Hex 1/4-20UNC	2
19	3616V007	· WASHER, Lock 1/4 in	4
20	2426V005	· TEE, Pipe 3/4 in	1
21	2402V007	· REDUCER, Pipe 3/4-1/4 in	1
22	2420V035	· NIPPLE, Close	1
23	R37023D1	· SWITCH, Pressure - Adjustable Differential	1
24	20Q260D253	· SCREW, Hex Hd Cap 3/8-16UNC x 1/2 in	4
25	3616V009	· WASHER, Lock 3/8 in	8
26	16N3511	· COVER, Insulation	1
27	718N233D158	· PAD, Mounting	4
28	32Z1581D2	· DECAL, Danger 115V (Not Shown)	1
29	79Z2475D7	· RCV SURGE SUPPRESSORS	1
30	R4787D1	· LABEL, Air Pressure, Brake	1
31	20Z40D3	· SCREW, Self Tap #4 x 1/4 in lg	6
32	2420V146	· NIPPLE, Pipe 3/4 x 4-1/2 in lg	1
33	32Z1926D35	· NAMEPLATE, Air Inlet	1
34	32Z1926D36	· NAMEPLATE, Air Exhaust	1
35	0906V001	· BUSHING, Insulating	2
36	0860V141	· SCREW, Rnd Hd Mach 3/8-16UNC x 1/2 in	4



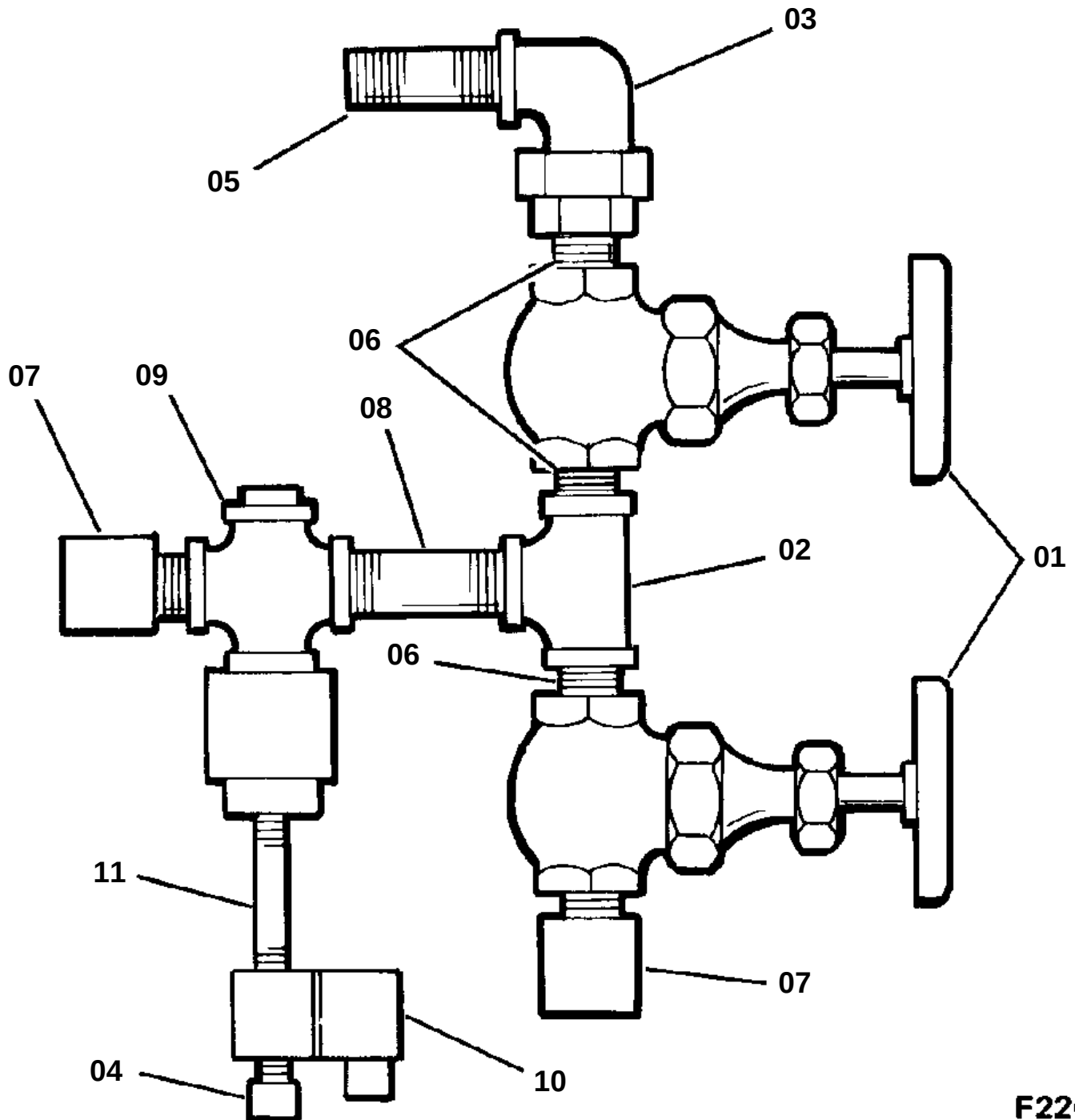
Machine
Serial Number: **4184**

PANEL, AIR SOLENOID

[illegible]



VALVE, AUTO DUMP



F2260



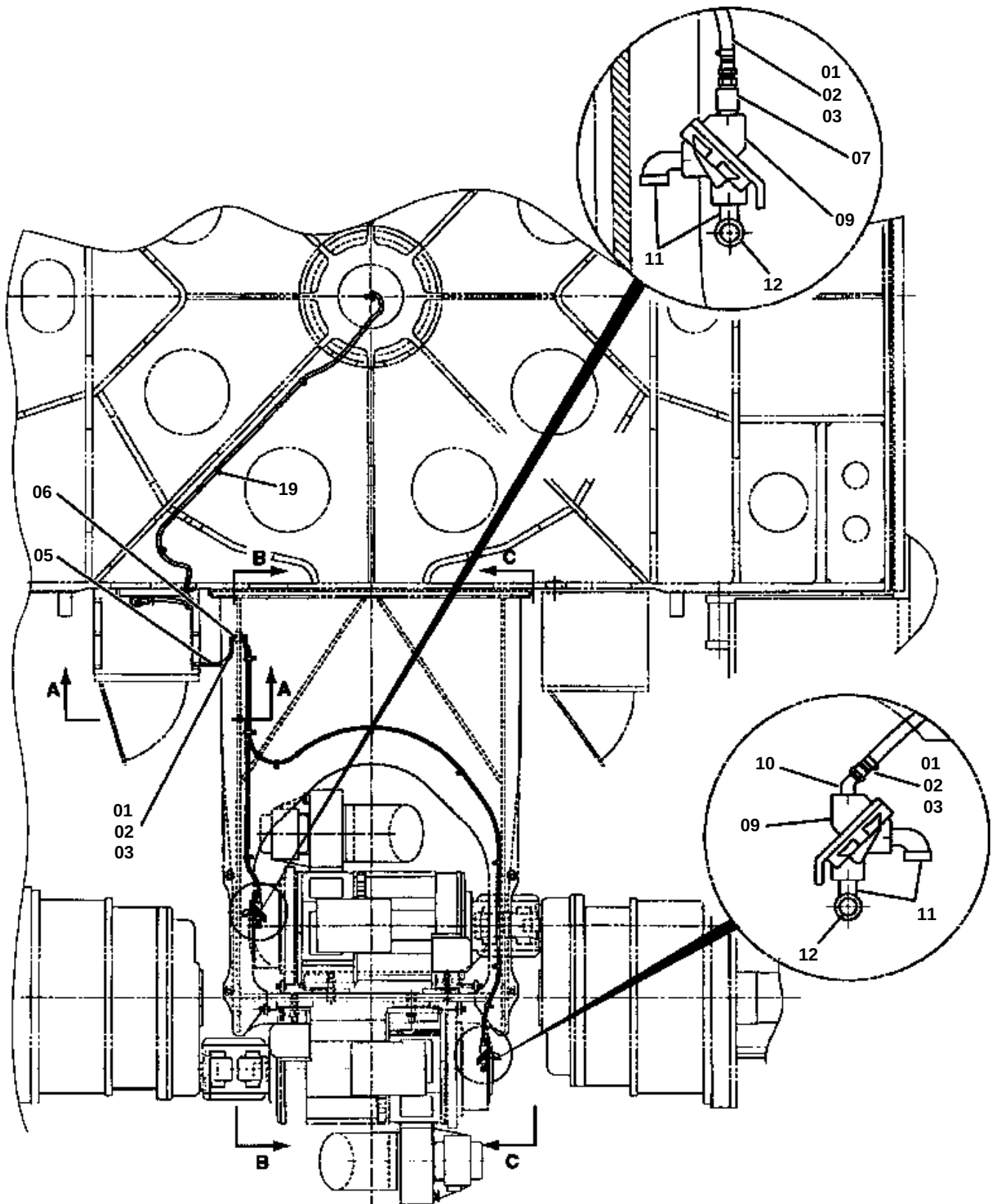
Machine
Serial Number: **4184**

VALVE, AUTO DUMP

[illegible]



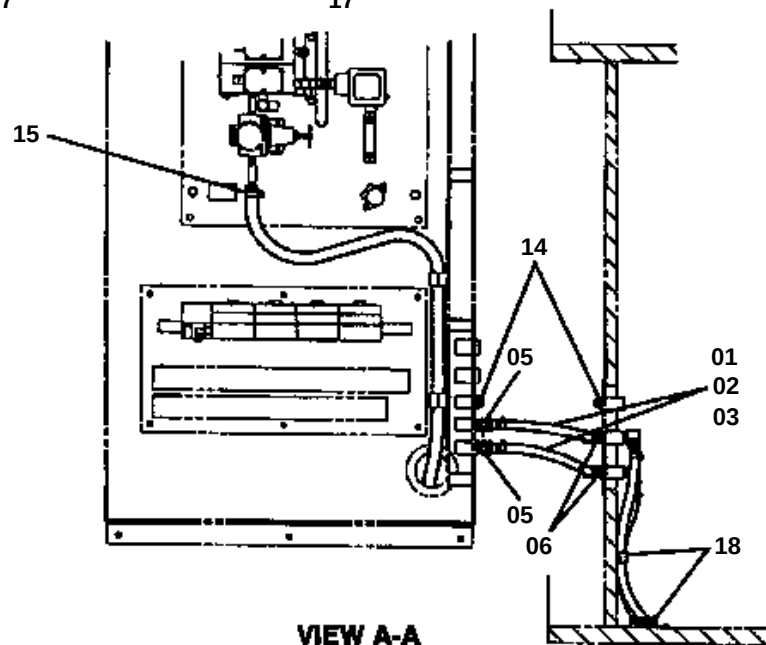
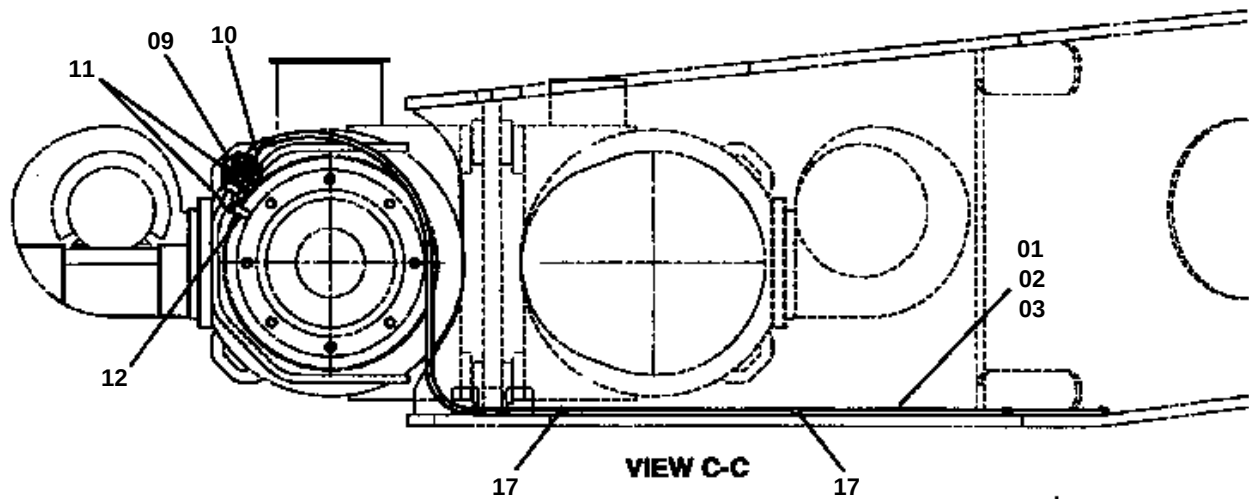
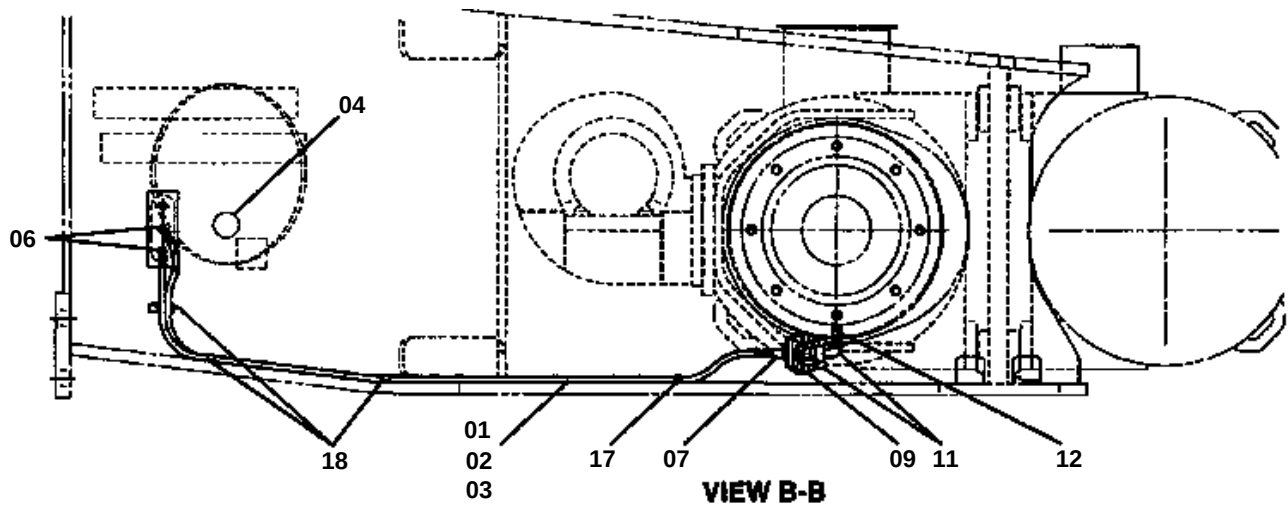
AIR PIPING, LOWER



F6841



AIR PIPING, LOWER



F6841A

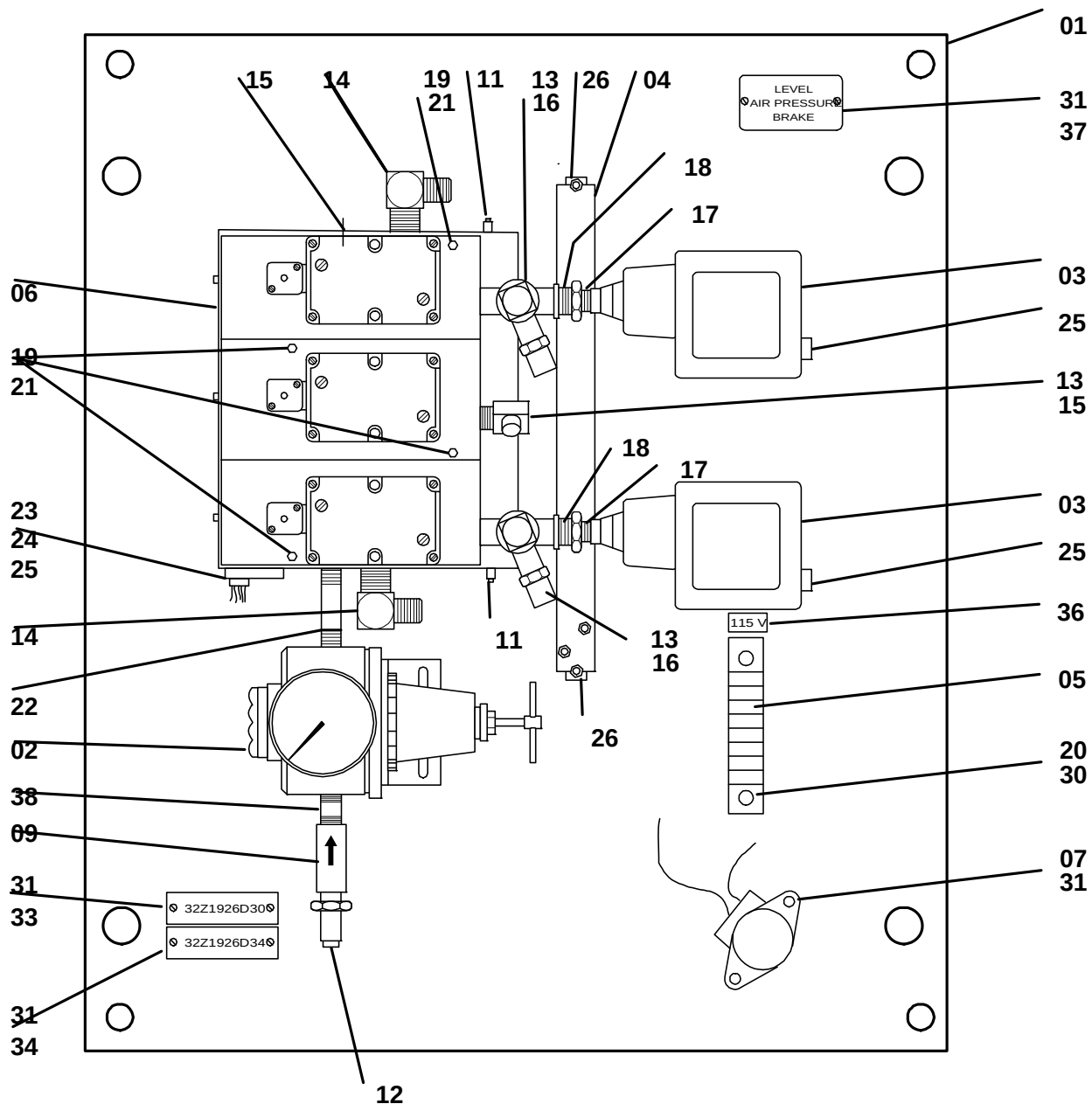


Machine
Serial Number: **4184**

AIR PIPING, LOWER

[illegible]

PANEL, AIR CONTROL



F1203C



PANEL, AIR CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R27430F1	PANEL, AIR CONTROL		
01	R27091D1	• PLATE, Mounting	1	
02	36Z1604D2	• REGULATOR, Air Pressure	1	8-23
03	79Z3138	• SWITCH, Pressure	2	
04	80Z112D13	• HEATER, Strip	1	
05	79H2159D15	• BLOCK, Terminal	1	
06	36Q346D2	• VALVE, Air Control	1	8-12
07	89Z904D1	• THERMOSTAT	1	
08	79Z2475D7	• SURGE SUPPRESSOR, RCV (Not Shown)	1	
09	36Z1245D1	• VALVE, Check	1	
10	914J327F2	• ENCLOSURE, Heated (Not Shown)	1	
11	2446V501	• PLUG, Sq Hd 1/8 in	2	
12	44Z590D13	• ADAPTER, JIC/Straight, Male Pipe, 1/2 in	1	
13	44Z591D13	• ADAPTER, JIC/90 deg, Male Pipe, 1/2 in	3	
14	44Z591D17	• ADAPTER, JIC/90 deg, Male Pipe, 3/4 in	2	
15	44Z511D4	• CAP, JIC 1/2 in	1	
16	2490V004	• T-JOINT, Street 1/2 in	2	
17	2420V035	• NIPPLE, 1/4 in	2	
18	2402V004	• BUSHING, Hex 1/2 x 1/4 in	2	
19	3616V007	• WASHER, Lock 1/4 in	4	
20	0860V073	• SCREW, Rd Hd Mach #10-24UNC x 3/8 in	2	
21	20Q260D201	• SCREW, Hex Hd Cap 1/4UNC x 2-1/2 in	4	
22	2420V109	• NIPPLE, Pipe 1/2 x 3 in	1	
23	0951V006	• REDUCER, 1/4 x 3/4 in	1	
24	0944V004	• NUT, Lock 1-1/4 in	1	
25	0949V004	• BUSHING, Plastic 1/2 in	3	
26	20Z1703D30	• SCREW, Flange Lock 1/4 in	2	
27		NOT USED		
28	R27104F1	• KIT, Propel Brake Indicator (Not Shown)	1	
29		NOT USED		
30	3616V005	• WASHER, Lock #10	2	
31	20Z40D3	• SCREW, Self Tap #4 x 1/4 in	8	
32	21Z772D4	• LOCTITE, Blue	AR	
33	32Z1926D30	• NAMEPLATE	1	
34	32Z1926D34	• NAMEPLATE	1	
35	32Q1396	• DECAL, Warning - Standard (Not Shown)	1	
36	32Z1581D2	• DECAL, Danger 115V	1	

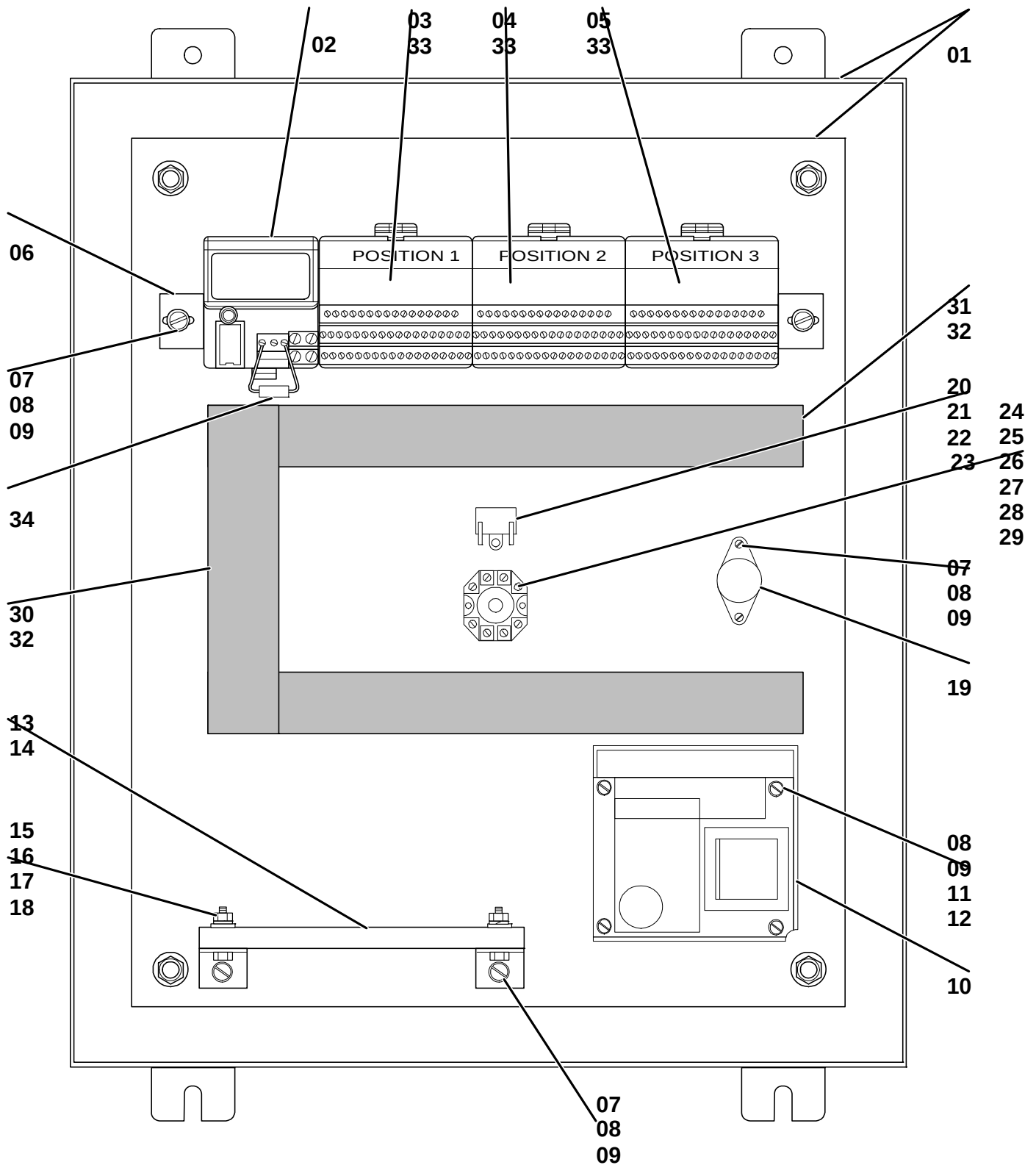
Machine
Serial Number: 4184

PANEL, AIR CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	R4787D1	· LABEL, Air Pressure Brake	1	
38	2451V102	· NIPPLE, Close	1	
39	32Q1780D3	· DECAL, Notice (Not Shown)	1	
40	32Q1805D56	· DECAL, 460 (Not Shown)	1	
41	32Q1918D27	· DECAL, Brake Solenoid (Not Shown)	1	
42	R33060D1	· DECAL, Warning - Manual Brake Release (Not Shown)	1	



CABINET REMOTE INPUT/OUTPUT, LOWER



SHOWN WITH COVER REMOVED

F6905

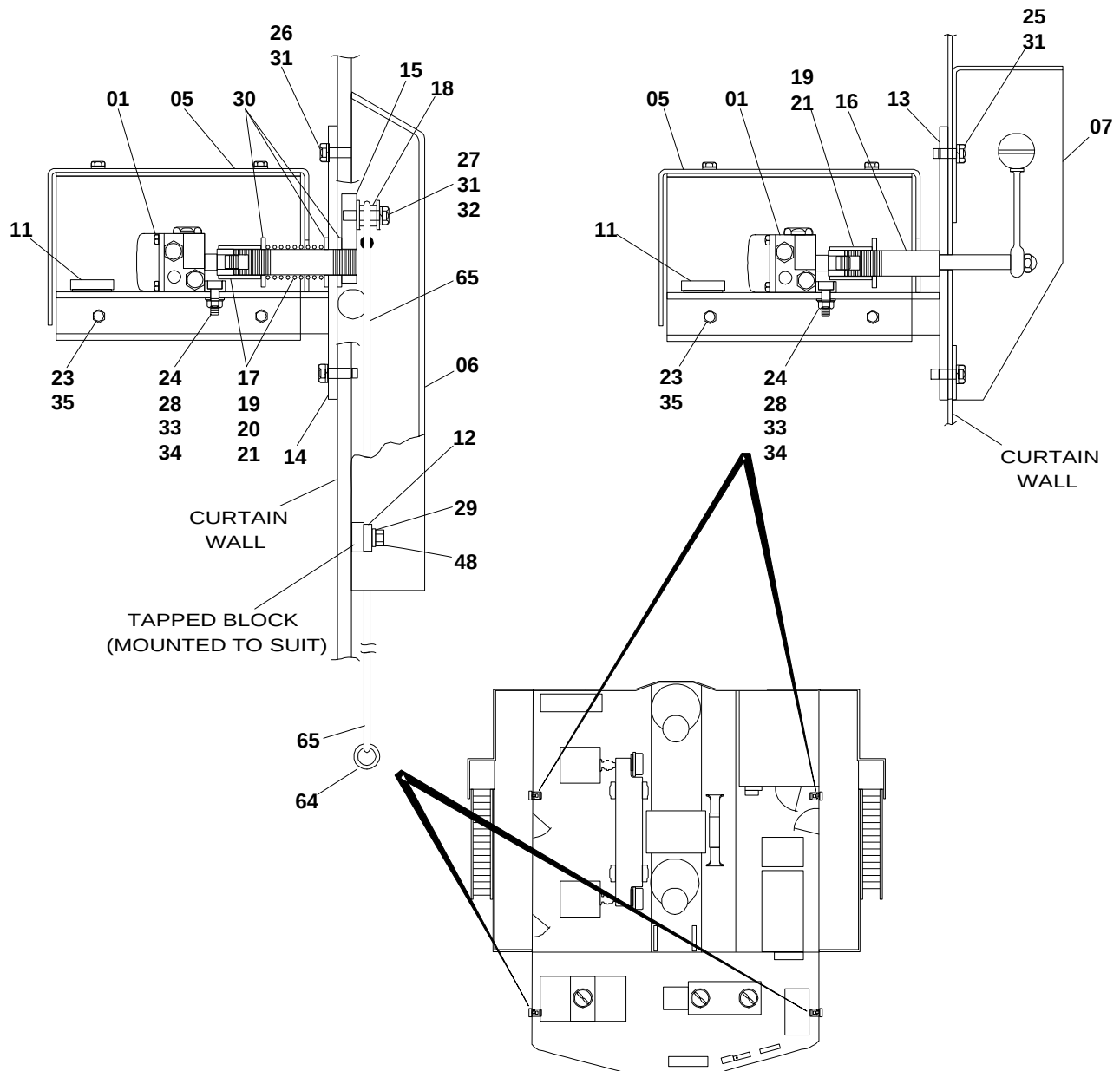


CABINET REMOTE INPUT/OUTPUT, LOWER

REF	PART NO.	DESCRIPTION	QTY
	R30792F1	REMOTE INPUT/OUTPUT, LOWER	
01	14Q183D11	· CABINET	1
02	R14217D2	· ADAPTER, Remote I/O	1
03	R14217D4	· MODULE, Input, 120 VAC, 8 PT	1
04	R14217D10	· MODULE, Output, 120 VAC, 8 PT	1
05	R14217D17	· MODULE, Input RTD, 8 PT	1
06	79Q1676D2	· CHANNEL, DIN Rail 16 in	AR
07	0862V094	· SCREW, Pan hd mach #10-24UNC x 3/8 in lg	6
08	3631V004	· WASHER, Plain #10	10
09	3616V005	· WASHER, Lock #10	10
10	84Z299D2	· POWER SUPPLY	1
11	0844V055	· SCREW, Pan hd mach #10-24UNC x 2-1/2 in lg	4
12	79Q1505D28	· SPACER 1-3/4 in lg	4
13	80Z112D11	· HEATER, Cabinet 150w	1
14	16H5242	· BRACKET, Mounting	2
15	20Q260D194	· SCREW, Hex hd cap 1/4-20UNC x 1 in lg	2
16	3616V007	· WASHER, Lock 1/4 in	2
17	3631V005	· WASHER, Plain 1/4 in	2
18	20Q270D16	· NUT, Hex 1/4-20UNC	2
19	89Z904D1	· THERMOSTAT	1
20	79Z2457D7	· SURGE SUPPRESSOR, RCV	1
21	0862V096	· SCREW, Pan hd mach #10-24UNC x 1/2 in lg	1
22	3616V005	· WASHER, Lock #10	1
23	3631V004	· WASHER, Plain #10	1
24	79Q40D12	· RELAY	1
25	87Z239	· BASE, Socket	1
26	17Z434	· SPRING, Hold down	1
27	0862V080	· SCREW, Pan hd mach #8-32UNC x 3/4 in lg	2
28	3616V004	· WASHER, Lock #8	2
29	3631V003	· WASHER, Plain #8	2
30	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 8 in lg	AR
31	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 12-1/2 in lg	AR
32	20Z1684D1	· RIVET, Wire Duct Mounting	6
33	R14217D14	· BASE, Terminal	3
34	80Z824D53	· RESISTOR, 1/2w, 150ohm	1



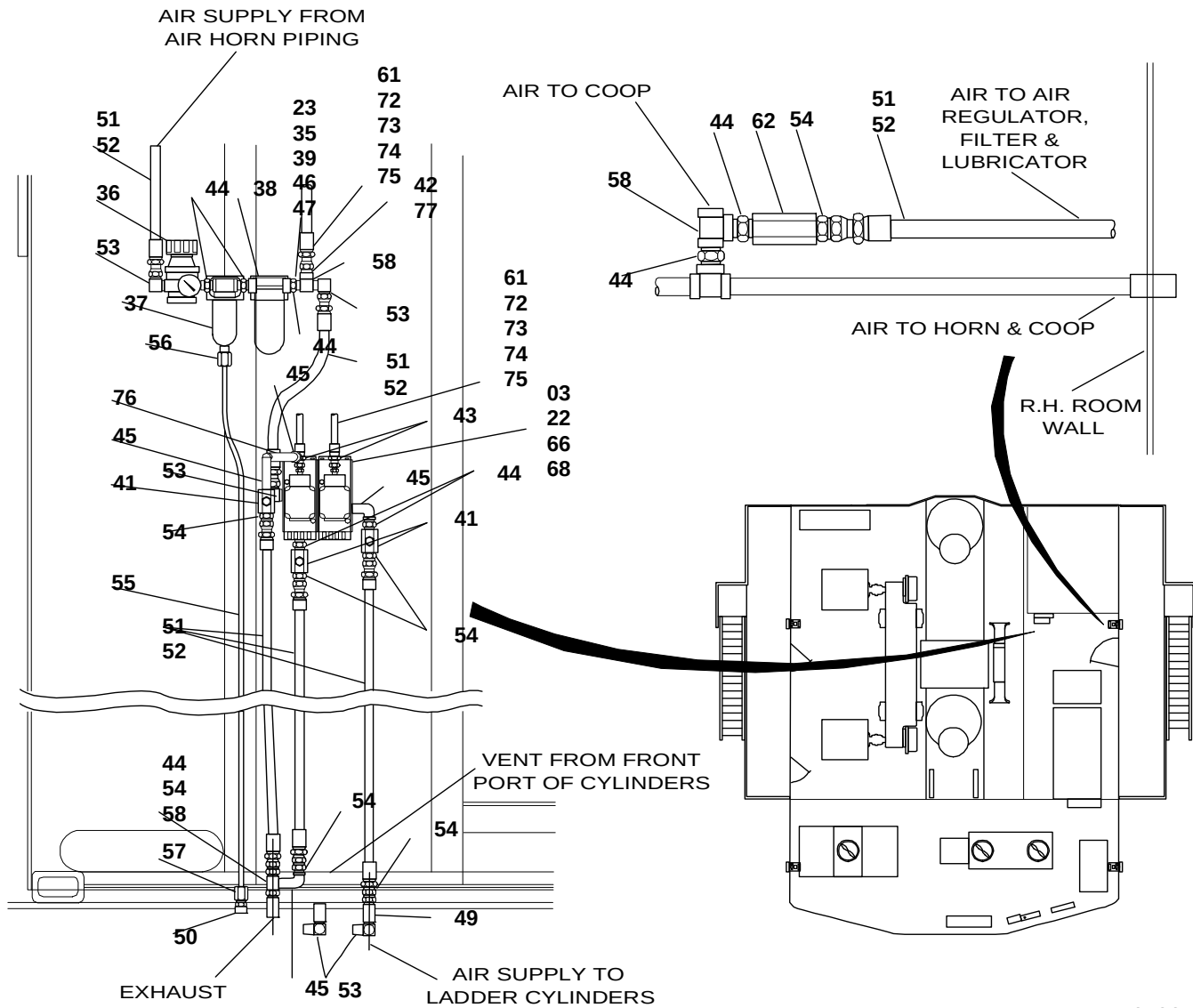
CONTROLLER, STAIRWAY, RIGHT-HAND



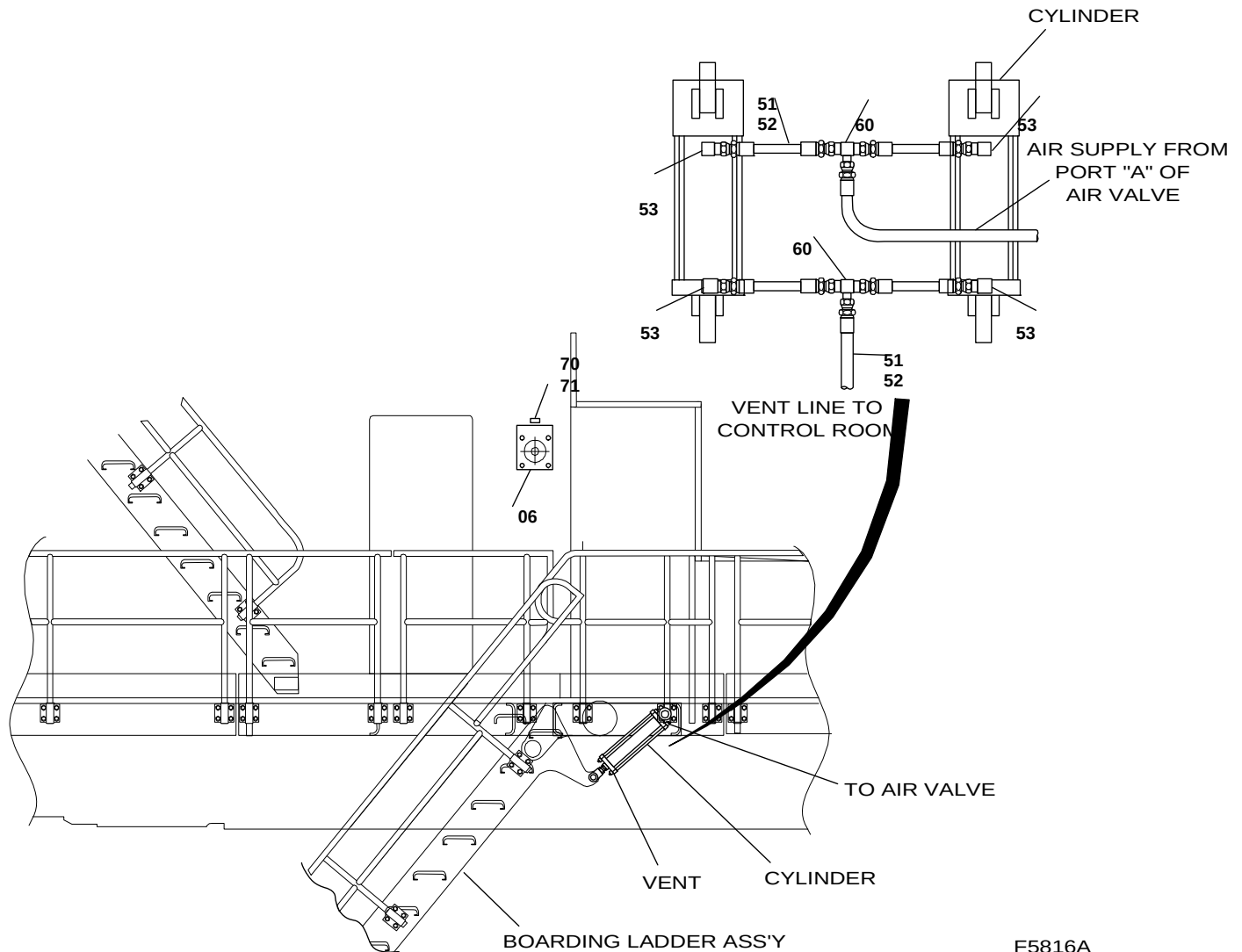
F5816E



CONTROLLER, STAIRWAY, RIGHT-HAND



CONTROLLER, STAIRWAY, RIGHT-HAND



F5816A



CONTROLLER, STAIRWAY, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R15627F1	CONTROLLER, STAIRWAY, RIGHT-HAND		
01	R14434D1	· VALVE, Air, Manual	2	
--	1045Z3733	· · KIT, Repair	1	
02		NOT USED		
03	R22893D1	· VALVE ASSEMBLY, Air	1	
04		NOT USED		
05	R15226F1	· ENCLOSURE, Heated	2	
06	R15253D1	· SHIELD, Weather	1	
07	R15219D1	· SHIELD, Weather	2	
08		NOT USED		
09	79Z906D4	· BLOCK, Terminal (Not shown)	2	
10	89Z904D1	· THERMOSTAT (Not shown)	2	
11	80Z112D8	· HEATER, Strip, 125W	2	
12	718N228D67	· LUG, Shield Support	2	
13	R15222D1	· BRACKET, Mounting	1	
14	R15254D1	· BRACKET, Mounting	1	
15	R15356D1	· ARM, Pivot	1	
16	R15238D1	· SHAFT	1	
17	17Z684D12	· SPRING	1	
18	18T15057D1	· SPACER 3/4 in	2	
19	R15246D1	· ADAPTER	1	
20	2420V113	· NIPPLE, Pipe 1/2 NPT x 4 in	1	
21	2409V004	· COUPLING, Pipe 1/2 NPT	2	
22	0630V022	· SCREW, Hex Hd Cap 1/4-20UNC x 2-1/2 in	3	
23	20Q260D192	· SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	12	
24	0630V030	· SCREW, Hex Soc Hd Cap 5/16-18UNRC x 1 in	4	
25	20Q260D258	· SCREW, Hex Hd Cap 3/8-16UNC x 1 in	4	
26	20Q260D260	· SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	4	
27	20Q260D261	· SCREW, Hex Hd Cap 3/8-16UNC x 1-1/2 in	2	
28	20Q270D20	· NUT, Hex 5/16-18UNC	4	
29	3616V013	· WASHER, Lock 5/8 in	2	
30	3631V013	· WASHER, Plain 7/8 in	3	
31	3616V009	· WASHER, Lock 3/8 in	10	
32	3632V004	· WASHER, Plain 3/8 in	4	
33	3632V003	· WASHER, Plain 5/16 in	4	
34	3616V008	· WASHER, Lock 5/16 in	4	
35	3616V007	· WASHER, Lock 1/4 in	12	



CONTROLLER, STAIRWAY, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY	PAGE
36	36Z1604D2	• REGULATOR, Air Pressure	1	8-23
37	46Q39D9	• FILTER, Air	1	8-25
38	46Q38D9	• LUBRICATOR, Air	1	8-24
39	R18067D7	• BRACKET	2	
40		NOT USED		
41	36Z959	• VALVE, Flow Control	3	
42	44Z590D6	• CONNECTOR, Male 1/4 NPT	8	
43	44Z590D5	• CONNECTOR, Male 1/8 NPT	2	
44	44Z558D4	• NIPPLE, Pipe 1/2 in	7	
45	2417V019	• ELBOW, Street 1/2 in x 90 deg	4	
46	R27408D1	• PLATE, Mounting	4	
47	0620V002	• SCREW, Socket Fl Hd 1/4-20UNC x 1/2 in	4	
48	20Q260D401	• SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in	2	
49	2459V004	• COUPLING, Pipe 1/2 in	3	
50	2459V003	• COUPLING, Pipe 1/4 in	1	
51	44Z1340D65	• HOSE, Medium-pressure 1/2 ID	1	
52	44Q5D24	• HOSE END, JIC Swivel 1/2 in	24	
53	44Z591D15	• ADAPTER, 90° JIC Male Pipe 1/2 in	9	
54	44Z590D15	• ADAPTER, JIC Male Pipe 1/2 in	7	
55	P&H SPEC 204	• TUBE, 1/4 OD x 6 ft	AR	
56	44Z219D4	• CONNECTOR, Male 1/4 x 1/8	1	
57	44Z219D5	• CONNECTOR, Male 1/4 x 1/4	1	
58	2426V004	• TEE, Pipe 1/2 in	3	
59		NOT USED		
60	44Z491D7	• TEE, Union JIC/JIC/JIC	2	
61	44Q5D7	• HOSE END, JIC Swivel 1/4 in	12	
62	36Z1245D1	• VALVE, Check	1	
63	0911V002	• CLAMP, Hose 1/2 in (Not shown)	28	
64	18Z3580D1	• RING, Split	4	
65	P&H SPEC 902	• CORD, 1/8 dia x 20 ft	AR	
66	18Z1732D12	• WASHER, Lock, Conical Serrated 1/4 in	3	
67	18N2540D1	• PLATE (Not shown)	2	
68	R23193D1	• PAD, Mounting	1	
69	0911V012	• CLAMP, Hose 1/4 in (Not shown)	24	
70	32Z1926D11	• NAMEPLATE	2	
71	20Z40D3	• SCREW, Pan Hd Tapping #4 x 1/4 in	4	
72	443765091	• HOSE, Medium-pressure 1/4 ID x 100 ft	AR	



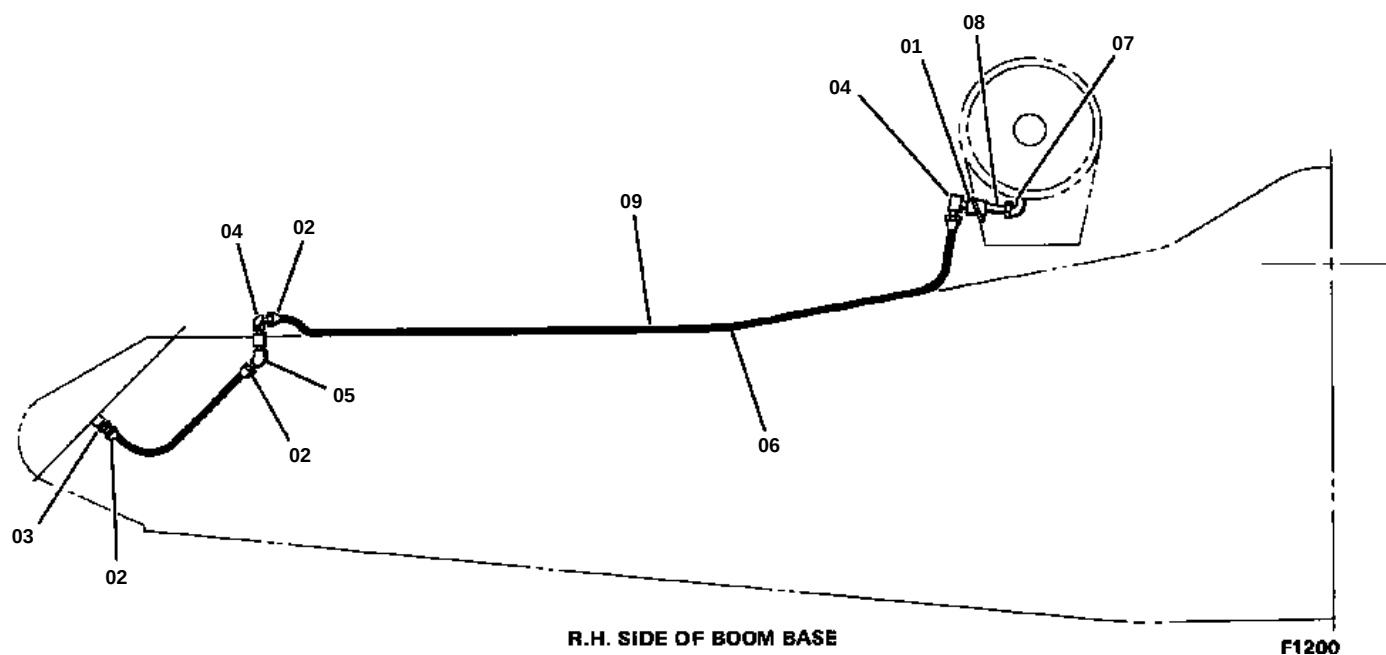
Machine
Serial Number: **4184**

CONTROLLER, STAIRWAY, RIGHT-HAND

REF	PART NO.	DESCRIPTION	QTY	PAGE
73		NOT USED		
74		NOT USED		
75		NOT USED		
76	2419V107	· NIPPLE, Pipe 1/2 NPT x 2-1/2 in	1	
77	2402V004	· BUSHING, Pipe 1/2 x 1/4 in	2	
78	44Z491D4	· TEE, Union 5/16 in JIC (Not shown)	1	



AIR PIPING, BOOM

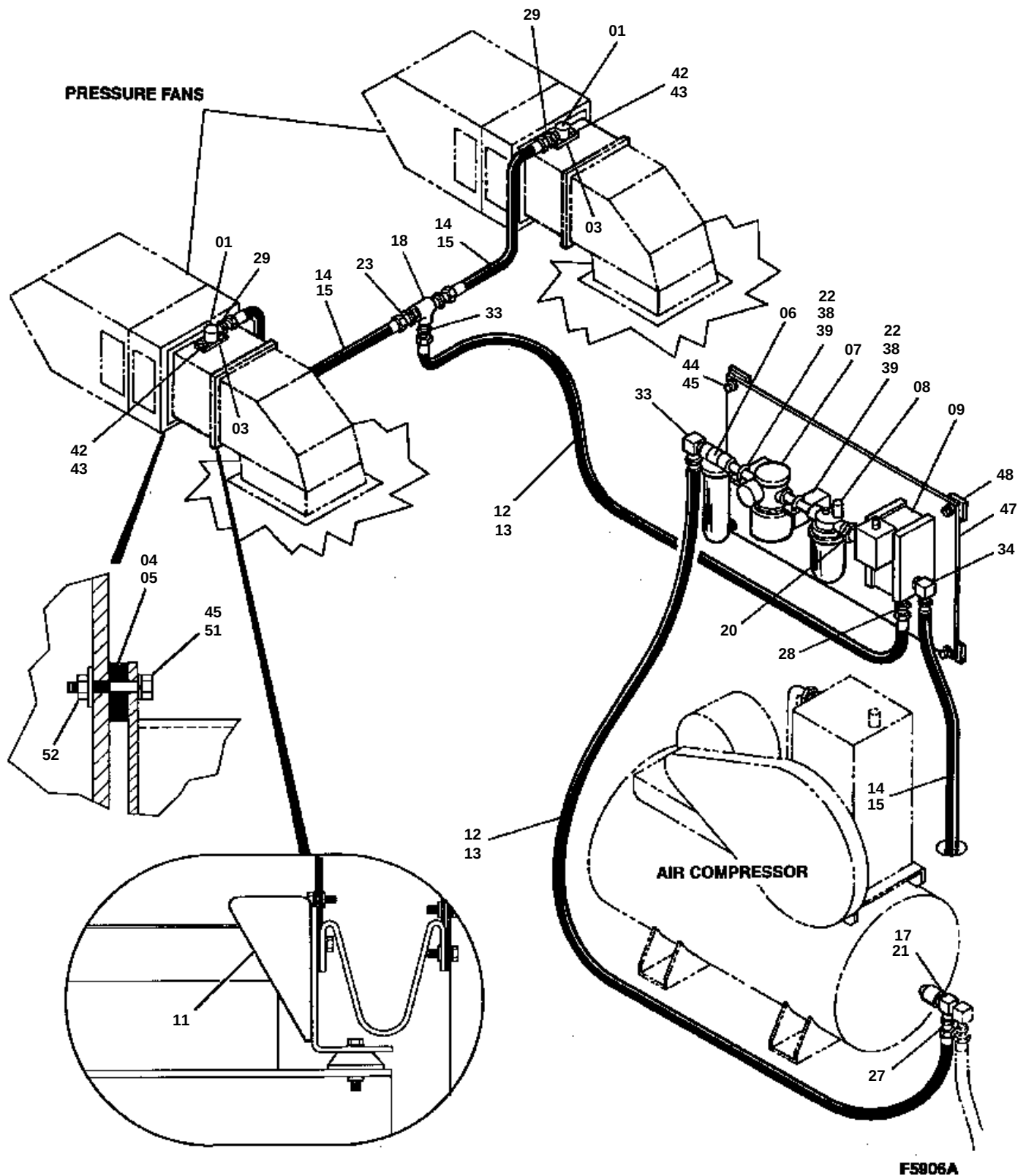


AIR PIPING, BOOM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	944N17F1	AIR PIPING, BOOM		
01	36Z240D12	· VALVE, Quick Release	1	8-20
02	44Q3D12	· HOSE END, Swivel	4	
03	44Z590D13	· ADAPTER, Pipe, Male	1	
04	44Z591D13	· ADAPTER, Pipe, Male	1	
	44Z591D14	· ADAPTER, Pipe, Male	1	
05	44Z898D11	· ADAPTER, Pipe, Male	1	
06	0911V002	· CLAMP, Hose	5	
07	2458V020	· ELBOW, Street, 3/4"-90 Deg	1	
08	2451V138	· NIPPLE, 1/2in Pipe, 2-1/2in lg	1	
09	44Z1317D30	· HOSE, Low Pressure, 1/2" I.D.	1	



FILTER VIBRATOR KIT





FILTER VIBRATOR KIT

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R11233F1	FILTER VIBRATOR KIT		
01	R11259D1	· VIBRATOR, Air		
02		NOT USED		
03	R11234D1	· CHANNEL	2	
04	R23900D1	· SPACER, Rubber	4	
05	R23900D2	· SPACER, Rubber	4	
06	46Z469D1	· FILTER, Air	1	
--	46Z469D2	· · ELEMENT, Filter	1	
07	36Z1604D2	· REGULATOR, Air	1	8-23
08	46Q38D9	· LUBRICATOR	1	8-24
09	36U375D1	· VALVE, Air Solenoid	1	8-17
10		NOT USED		
11	R23901D2	· PLATE, Support	4	
12	44Z1319D50	· HOSE, Low Pressure 3/4 in	1	
13	44Q3D17	· SWIVEL, JIC Hose End	4	
14	44Z1317D45	· HOSE, Low Pressure 1/2 in	1	
15	44Q3D12	· SWIVEL, JIC Hose End	5	
16		NOT USED		
17	44Z342D6	· TEE, Pipe 1 in	1	
18	44Z505D8	· TEE, Pipe 1/2 in	1	
19		NOT USED		
20	44Z943D7	· NIPPLE, Hex 1/2 NPT x 3/4 NPT	1	
21	2420V163	· NIPPLE, Close 1 NPT	1	
22	2420V113	· NIPPLE, Pipe 1/2 NPT x 4 in.	2	
23	2408V004	· COUPLING, Pipe 1/2 NPT	1	
24		NOT USED		
25		NOT USED		
26		NOT USED		
27	44Z590D22	· ADAPTER, JIC Male Pipe 1 NPT	1	
28	44Z590D14	· ADAPTER, JIC Male Pipe 3/4 NPT	1	
29	44Z590D12	· ADAPTER, JIC Male Pipe 1/4NPT	2	
30		NOT USED		
31		NOT USED		
32		NOT USED		
33	44Z591D18	· ELBOW, JIC Male Pipe 90 deg. 1/2 NPT	2	
34	44Z591D14	· ELBOW, JIC Male Pipe 90 deg. 3/4 NPT	1	
35		NOT USED		



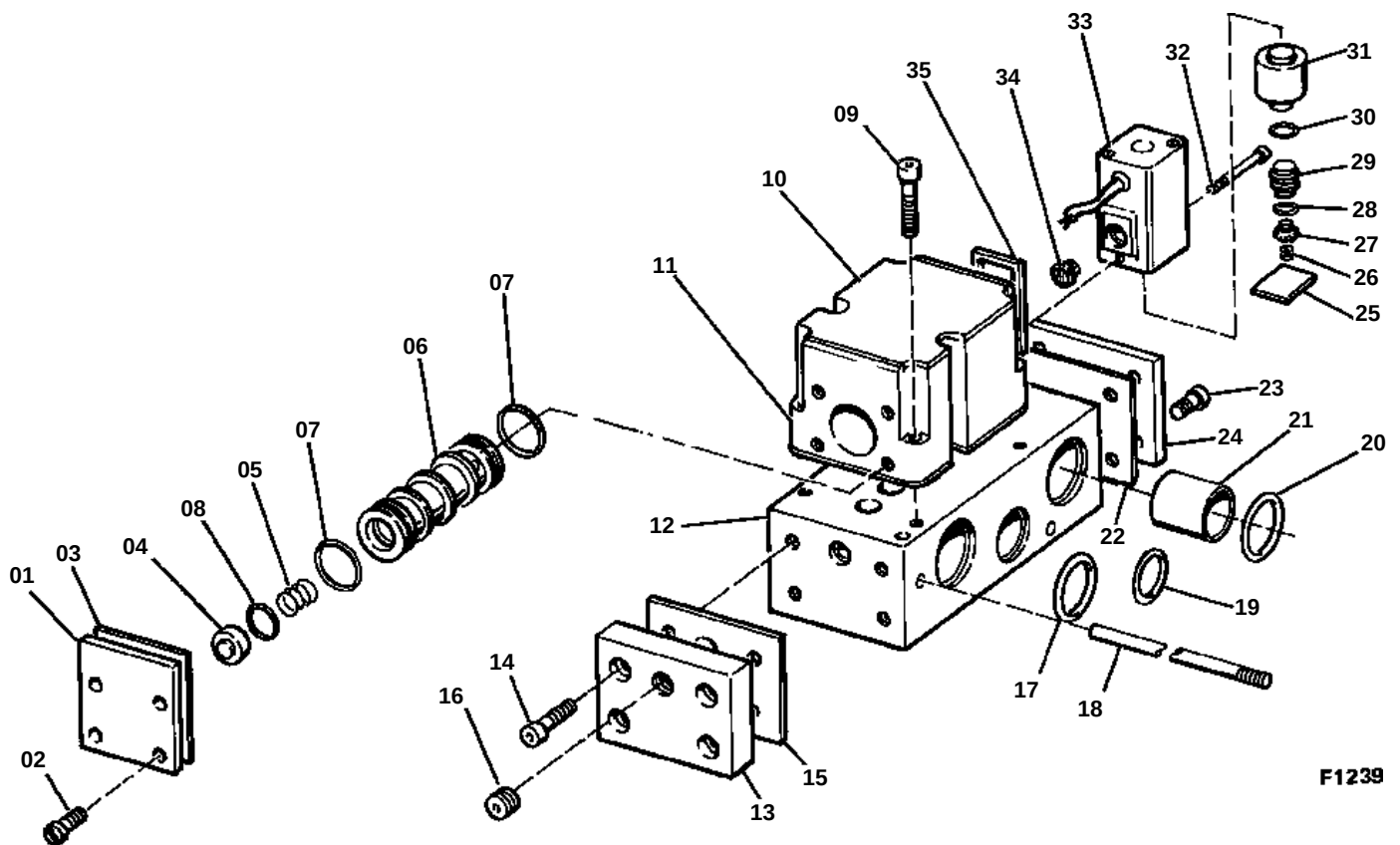
Machine
Serial Number: **4184**

FILTER VIBRATOR KIT

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VALVE, AIR CONTROL



F1239



VALVE, AIR CONTROL

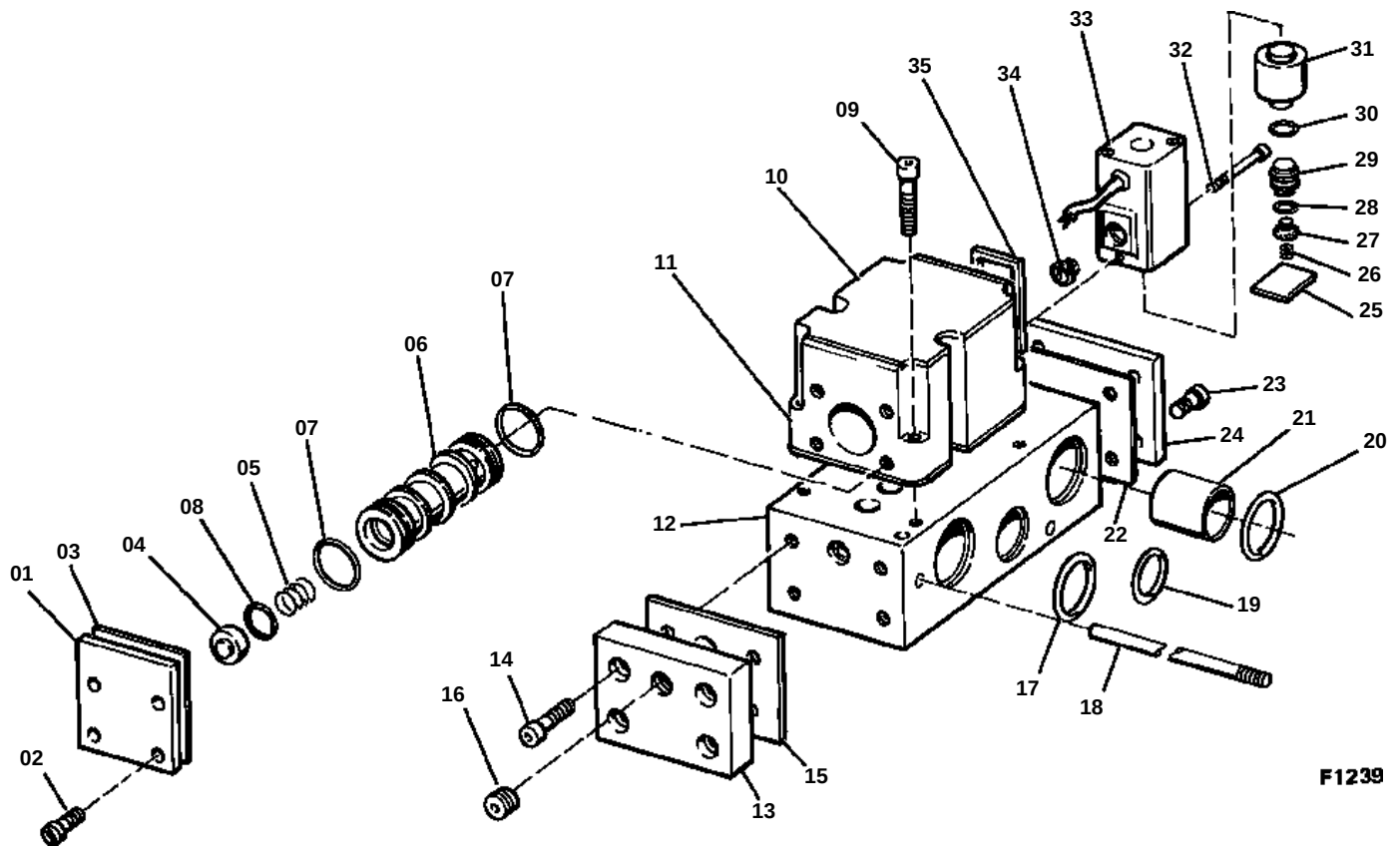
REF	PART NO.	DESCRIPTION	QTY
	36Q346D2	VALVE, AIR CONTROL	
--	36Q347D2	· VALVE ASSEMBLY, Body	3
01	1014Z2560	· · PLATE ASSEMBLY, End	1
02		· · · SCREW, Mounting	4
03	1020Z7653	· · · GASKET, End plate	1
04		· · BUSHING, Air spring	1
05		· · SPRING, Return	1
06	1036Z1280	· · SPOOL ASSEMBLY	1
07	1045Z2411	· · · O-RING, Spool	2
08	1045Z2410	· · · O-RING	1
09		· · SCREW, Valve body to base mounting	4
10		· · BODY, Valve	1
11	1020Z6979	· · GASKET, Body to base	1
--	36Q347D5	· BASE ASSEMBLY, Valve	3
11	1020Z6979	· · GASKET, Body to base	1
12		· · BASE	1
13	1014Z2559	· · PLATE ASSEMBLY, Cylinder port	1
14		· · · SCREW, Plate mounting	3
15	1020Z7652	· · · GASKET, Plate	1
16		· · PLUG, 1/8 in Pipe	1
17	1045Z2406	· · SEAL, Exhaust	1
18		· · TIE ROD	2
19	1045Z2407	· · SEAL, Inlet	1
20	1045Z2408	· · SEAL, Conduit	1
21		· · LINER, Conduit	2
22	1014Z2561	· · BASE PLATE ASSEMBLY	1
23		· · · SCREW, Mounting	4
24		· · · GASKET, Base plate	1
--	36Q347D3	· PILOT VALVE ASSEMBLY	3
25		· · PLATE, Bottom	1
26		· · SPRING, Spool	1
27		· · RETAINER	1
28		· · SEAL, Retainer	1
29		· · SPOOL, Valve	1
30		· · SEAL, Spool	1
31		· · COIL	1
32		· · SCREW, Coil mounting	3

VALVE, AIR CONTROL

REF	PART NO.	DESCRIPTION	QTY
33		· · COVER, Coil	1
34	1046Z846	· · SCREEN, Filter	1
35	1045Z2409	· · SEAL, Coil to valve	1
--	1036Z1137	· · SEAL KIT, Individual valve	AR



AIR VALVE AND SOLENOID, BRAKE (4 VALVE)



F1239



AIR VALVE AND SOLENOID, BRAKE (4 VALVE)

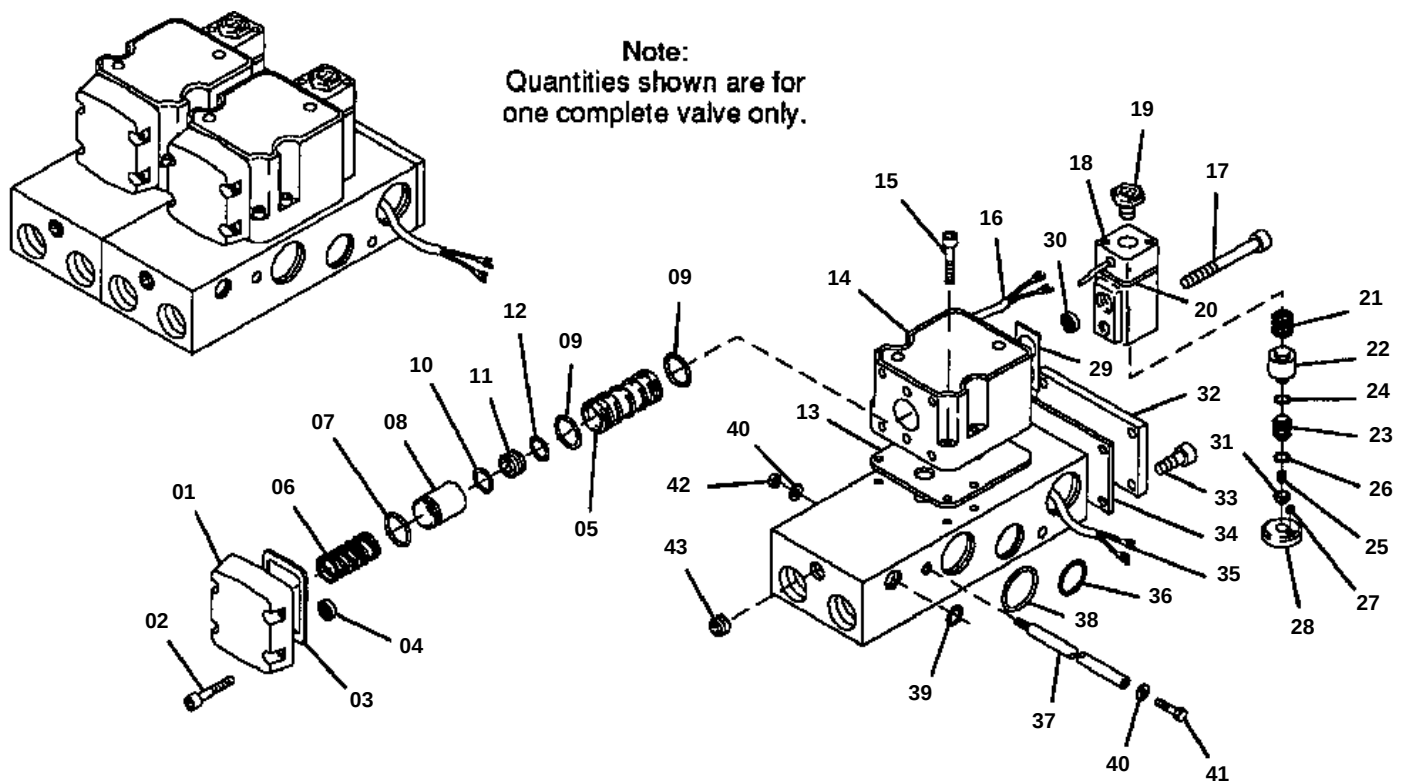
REF	PART NO.	DESCRIPTION	QTY
	36Q346D3	AIR VALVE AND SOLENOID, BRAKE (4VALVE)	
	36Q347D2	· VALVE ASSEMBLY, Body	4
01	1014Z2560	· · PLATE ASSEMBLY, End	1
02		· · · SCREW, Mounting	4
03	1020Z7653	· · · GASKET, End plate	1
04		· · BUSHING, Air spring	1
05		· · SPRING, Return	1
06	1036Z1280	· · SPOOL ASSEMBLY	1
07	1045Z2411	· · · O-RING, Spool	2
08	1045Z2410	· · · O-RING	1
09		· · SCREW, Valve body to base mounting	4
10		· · BODY, Valve	1
11	1020Z6979	· · GASKET, Body to base	1
	36Q347D4	· BASE ASSEMBLY, Valve	4
11	1020Z6979	· · GASKET, Body to base	1
12		· · BASE	1
13	1014Z2559	· · PLATE ASSEMBLY, Cylinder port	1
14		· · · SCREW, Plate mounting	3
15	1020Z7652	· · · GASKET, Plate	1
16		· · PLUG, 1/8 in Pipe	1
17	1045Z2406	· · SEAL, Exhaust	1
18		· · TIE ROD	2
19	1045Z2407	· · SEAL, Inlet	1
20	1045Z2408	· · SEAL, Conduit	1
21		· · LINER, Conduit	2
22	1014Z2561	· · BASE PLATE ASSEMBLY	1
23		· · · SCREW, Mounting	4
24		· · · GASKET, Base plate	1
	36Q347D3	· PILOT VALVE ASSEMBLY	4
25		· · PLATE, Bottom	1
26		· · SPRING, Spool	1
27		· · RETAINER	1
28		· · SEAL, Retainer	1
29		· · SPOOL, Valve	1
30		· · SEAL, Spool	1
31		· · COIL	1
32		· · SCREW, Coil mounting	3

AIR VALVE AND SOLENOID, BRAKE (4 VALVE)

REF	PART NO.	DESCRIPTION	QTY
33		· · COVER, Coil	1
34	1046Z519	· · SCREEN, Filter	1
35	1045Z2409	· · SEAL, Coil to valve	1
	1036Z1137	· · SEAL KIT, Individual valve	AR



VALVE, AIR-SOLENOID OPERATED (3 Valve Bank)



F2981



VALVE, AIR-SOLENOID OPERATED (3 Valve Bank)

REF	PART NO.	DESCRIPTION	QTY
	36Q346D7	VALVE, AIR-SOLENOID OPERATED (3 Valve Bank)	
01	1018Z11829	· RETAINER, Spring	1
02		· · SCREW, Retainer	4
03	1018Z11830	· · SEAL, Spring Retainer (* Part of Kit)	1
04	1046Z844	· · ELEMENT, Filter (* Part of Kit)	1
	1045Z3359	· KIT, Valve Service	1
05	1036Z1949	· · SPOOL	1
06	1017Z2077	· · · SPRING, Return	1
07	1018Z11831	· · · SEAL, Piston U-Cup	1
08	1039Z981	· · · PISTON	1
09	1018Z11832	· · · SEAL, Spool-O-Ring	2
10	1018Z11833	· · · RING, Retaining	1
11	1020Z12013	· · · PLUG	1
12	1045Z3360	· · · O-RING	1
13	1045Z3079	· · SEAL, Pressure Body to Base	1
14	1014Z4068	· COVER, Body	1
15	1020Z12014	· SCREW, Body Mounting	4
16	1029Z105	· WIRE, Assembly Body 1 each	1
17	1045Z3361	· HARDWARE, Kit Pilot Mounting	1
	36Q347D3	· SOLENOID, Pilot Operated	1
	1081Z151	· · SOLENOID and Cover	1
18	1014Z4067	· · · COVER	1
19	1036Z1950	· · · OPERATOR, Manual-Non-Locking Recessed	1
20	1020Z12015	· · · GASKET, Cover to Body	1
21	1017Z2078	· · · SPRING	1
22	1081Z152	· · · SOLENOID, Assembly	1
	36Q347D6	· · · COIL	1
22	1079Z5535	· · · REPAIR KIT, Solenoid	1
23	1036Z1951	· · · POPPET	1
24	1018Z11834	· · · SEAL, Poppet - O-Ring	1
25	1017Z2079	· · · SPRING	1
26	1045Z3362	· · · O-RING	1
27	1046Z845	· · · ELEMENT, Air Filter	1
28	1020Z12016	· · · PLUG, Poppet	1
29	1018Z11835	· · · SEAL, Pressure Body to Valve	1
30	1046Z846	· · · SCREEN, Air Filter	1
31	1018Z11836	· · RETAINER, (Also includes 26,27,28)	1

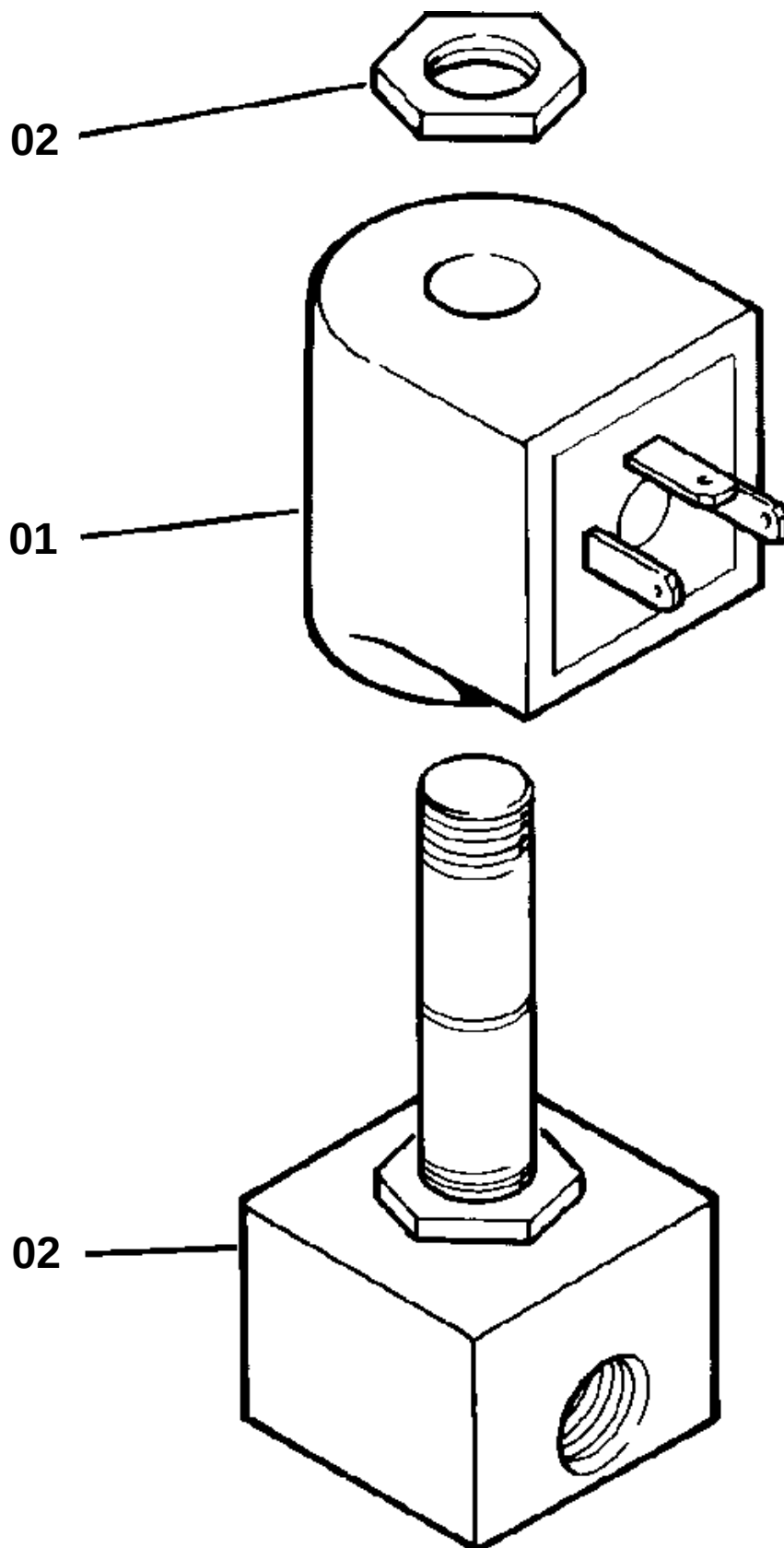


Machine
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REF	PART NO.	DESCRIPTION	QTY
32	1018Z11837	· PLATE, Conduit Cover	1
33		· · SCREW	4
34		· · GASKET, Plate	1
35	1029Z104	· WIRE, Assembly Base Lead	1
36	1045Z2407	· O-RING, Inlet Port	1
37	1006Z1882	· LINK, Tie Rod	2
38	1045Z2406	· O-RING, Exhaust Port	1
39	1045Z3363	· O-RING, Common Pilot Port	1
	1006Z1883	· HARDWARE KIT, Tie Rod Links	1
40	1018Z11838	· · WASHER	4
41	1020Z12017	· · SCREW	2
42	1020Z12018	· · NUT, Hex	2
43	1020Z12019	· PLUG, Pipe 1/4 in	1



VALVE, AIR SOLENOID



F3290

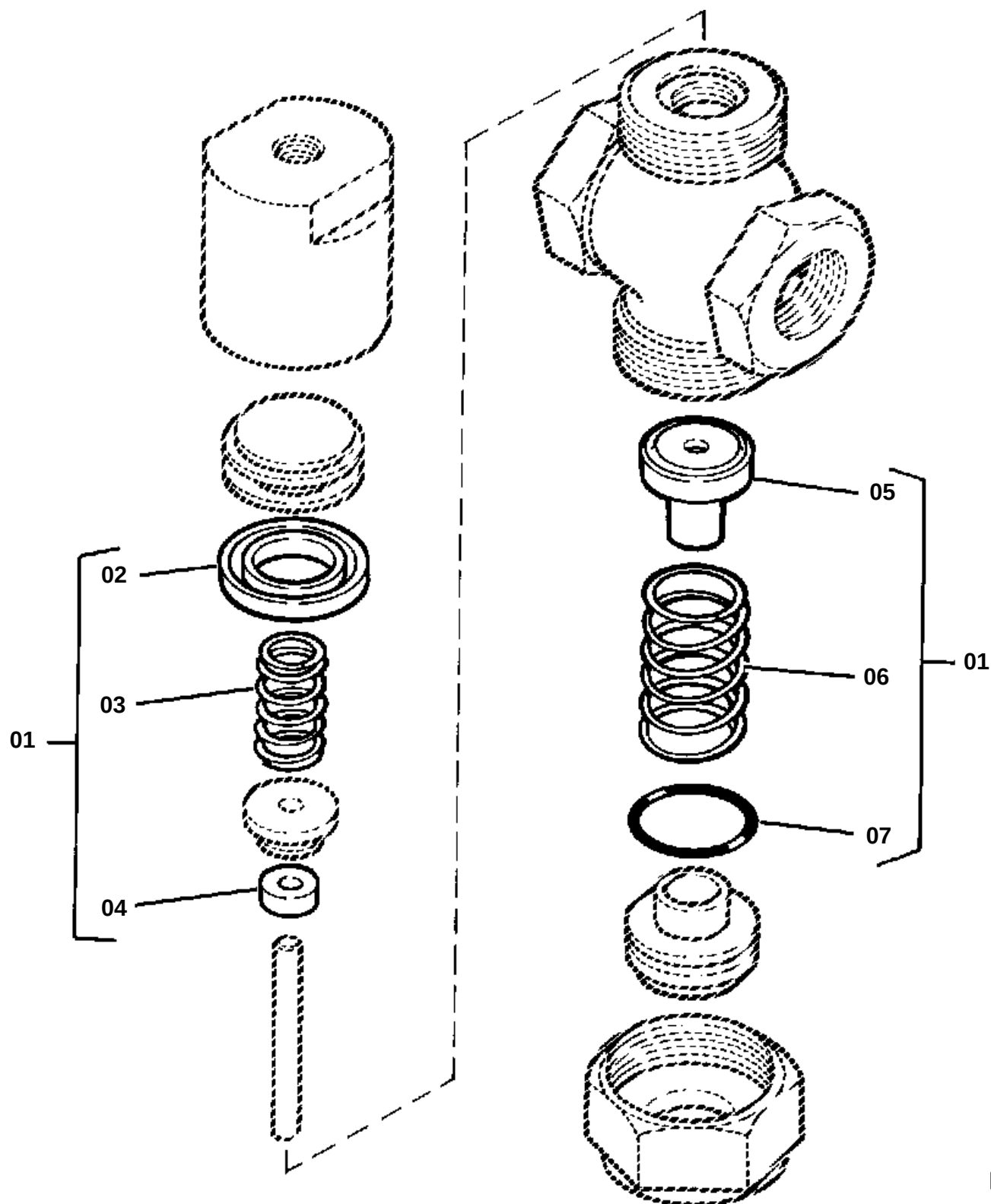
Machine
Serial Number: 4184

VALVE, AIR SOLENOID

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VALVE, DRAIN



F3291



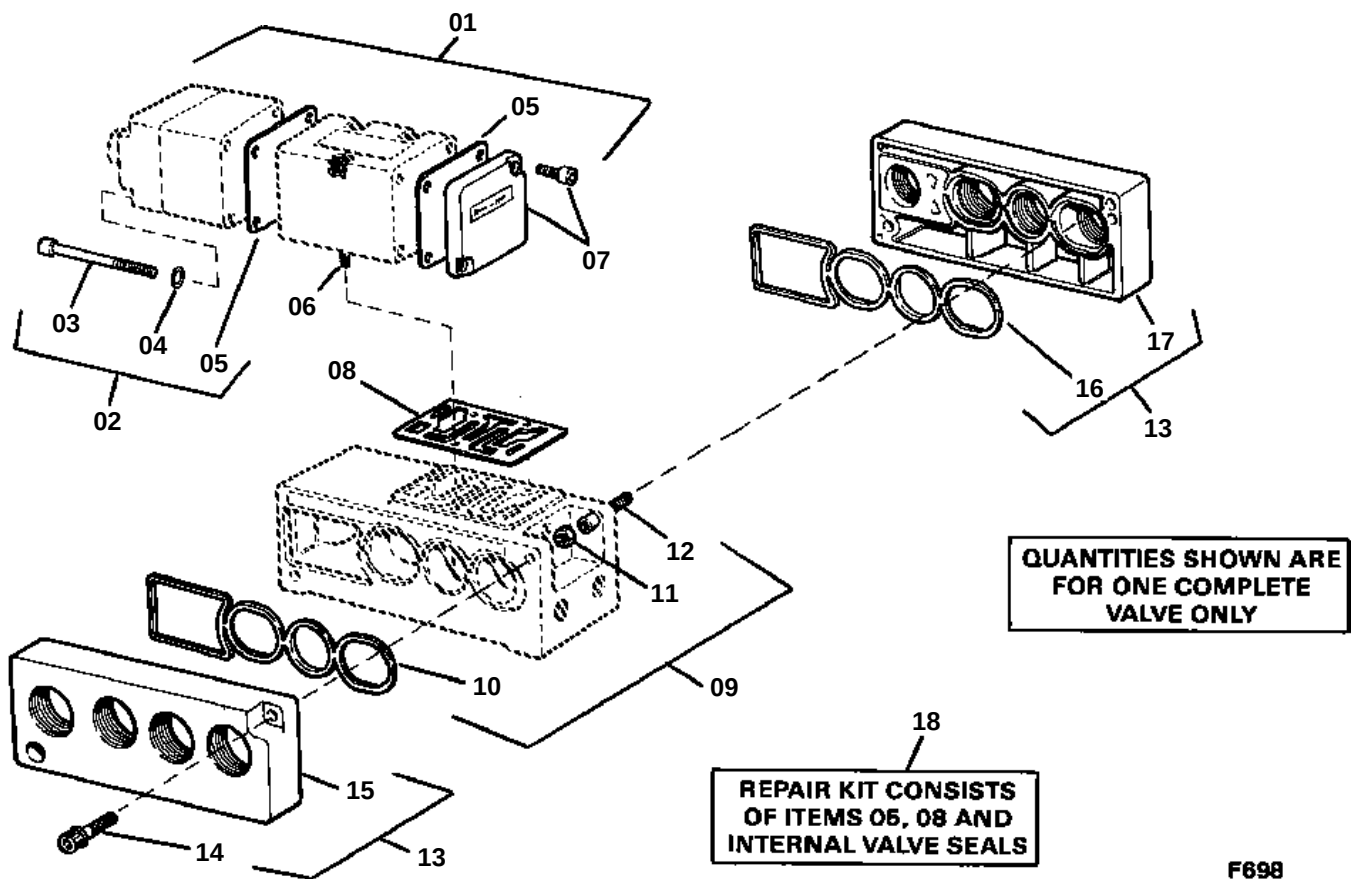
Machine
Serial Number: **4184**

VALVE, DRAIN

[illegible]



VALVE STACK, AIR - ONE VALVE



F698

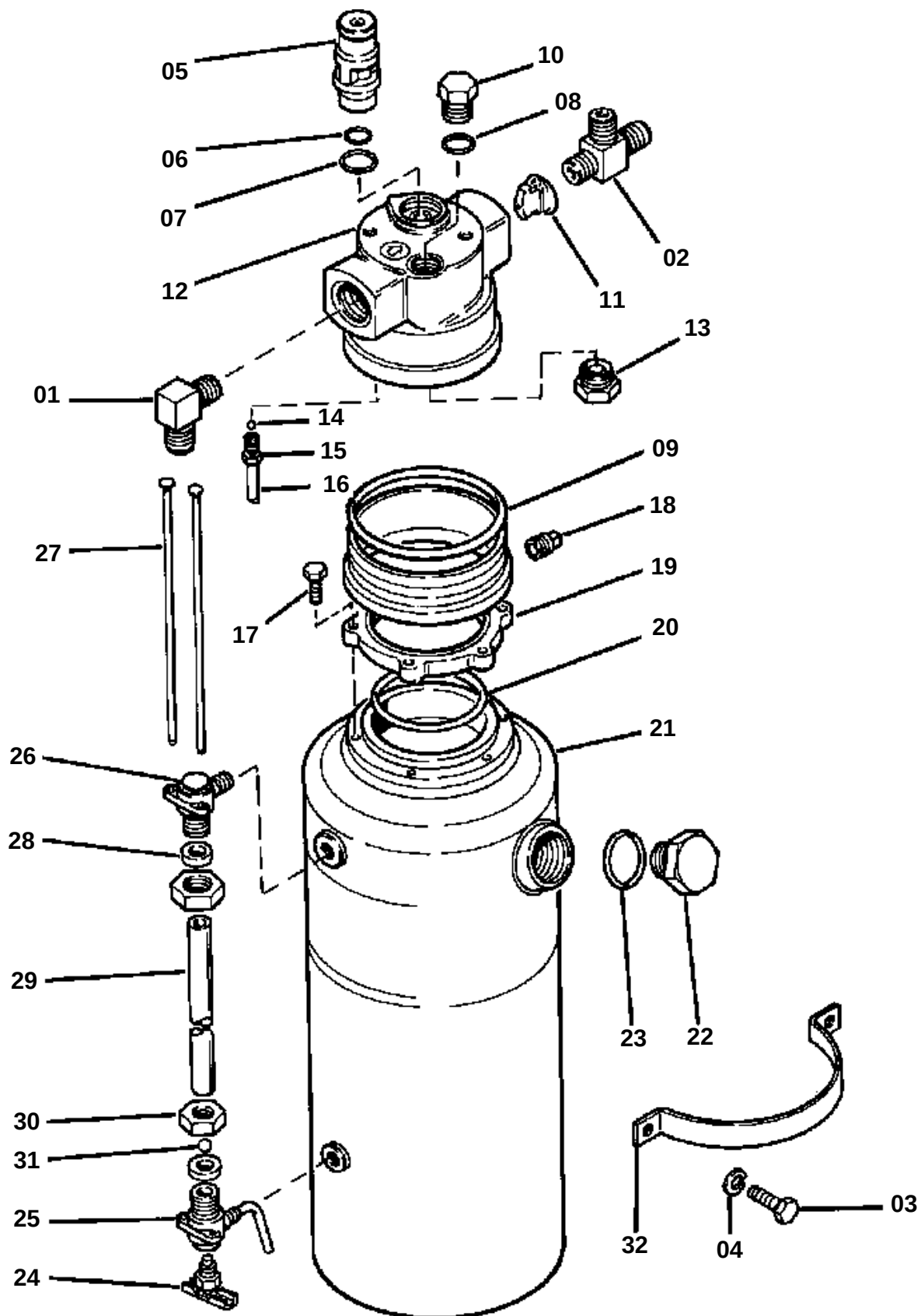


Machine
Serial Number: **4184**

REF	PART NO.	DESCRIPTION	QTY
--	36U375D1	VALVE STACK, AIR - ONE VALVE	
01	1036Z1671	· VALVE, Solenoid	1
02	1081Z94	· · KIT, Solenoid	1
03	1020Z10394	· · · SCREW, Solenoid Mounting	2
04	1045Z3047	· · · O-Ring	2
05	1020Z10393	· · · GASKET	2
06	1020Z10395	· · SCREW, Valve Mounting	3
07	1018Z10527	· · CAP, Spring w/Screws	1
08	1020Z10354	· · GASKET, Valve to Manifold	1
09	1016Z933	· KIT, Manifold Block	1
10	1020Z10353	· · GASKET, Manifold Block to Manifold Block	1
11	1020Z10392	· · NUT, Manifold Block	2
12	1020Z10391	· · SCREW, Manifold Block	2
13	1018Z10499	· KIT, End Plates	1
14	1020Z10391	· · SCREW, End Plate	2
15	1018Z10526	· · PLATE, End - Left Hand	1
16	1020Z10353	· · GASKET, End Plate to Manifold Block	1
17	1018Z10525	· · PLATE, End - Right Hand	1
18	1045Z2945	· KIT, Repair	1



LUBRICATOR, AIR



F872



LUBRICATOR, AIR

REF	PART NO.	DESCRIPTION	QTY
	100T386F2	LUBRICATOR, AIR	
01	44Z591D17	· ELBOW, Male 90- 3/4in	1
02	44Z902D8	· TEE, Male 3/4in	1
03	0626V075	· SCREW, Hex hd cap 1/2-13UNC x 3/4in	2
04	3615V011	· WASHER, Lock 1/2in	2
	46Z405	· LUBRICATOR, Air	1
05	1046Z330	· · DOME ASSEMBLY, Feed	1
06		· · · O-RING	1
07		· · · O-RING	1
	1046Z301	· · KIT, O-ring	1
08		· · · O-RING	1
09		· · · O-RING	1
(NOTE: Kit also includes items 6 and 7)			
10	1020Z7637	· · PLUG, Fill	1
11	1036Z1272	· · SENSOR, Flow	1
12		· · BODY, Lubricator	1
13	1036Z1271	· · VALVE, Check	1
14	1025Z2678	· · BALL, Check	1
15	1044Z846	· · FITTING, Tube	1
16	1020Z7636	· · TUBE, Siphon	1
17	1020Z7635	· · SCREW	6
18	1020Z7634	· · PLUG, Pipe	1
19	1046Z517	· · ADAPTER	1
20	1020Z7633	· · GASKET, Adapter	1
	1027Z248	· · RESERVOIR ASSEMBLY	1
21		· · · RESERVOIR, 5 Gallon	1
22	1020Z7632	· · · PLUG, Fill	1
23	1020Z7631	· · · · GASKET, Plug	1
24	1036Z1086	· · · COCK, Drain	1
25	1044Z847	· · · TEE, Lower bracket, includes ref 24	1
26	1018Z7627	· · · ELBOW, Upper bracket	1
	1045Z2183	· · · KIT, Reservoir sight gauge	1
27	1019Z1507	· · · · PIN, Guard	2
28	1018Z7725	· · · · SPACER	2
29	1018Z7726	· · · · GAUGE, Sight, includes rec 27,28 & 30	1
30	1020Z7630	· · · · NUT	2



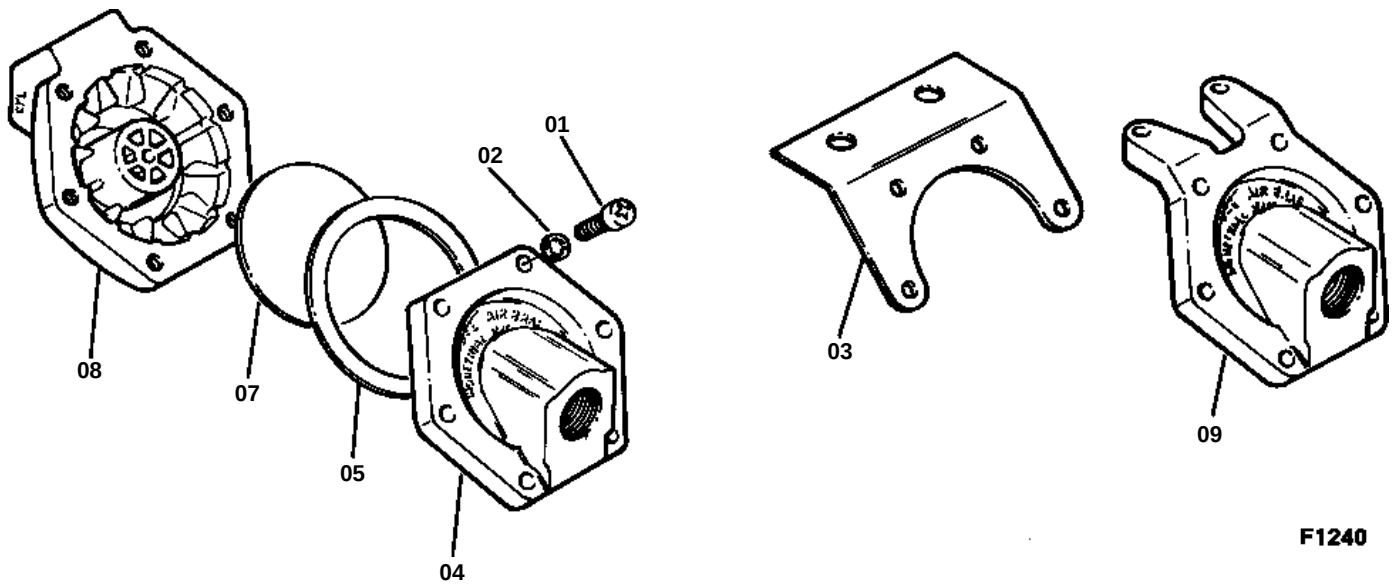
Machine
Serial Number: **4184**

LUBRICATOR, AIR

[illegible]



VALVE, AIR, QUICK-RELEASE



F1240



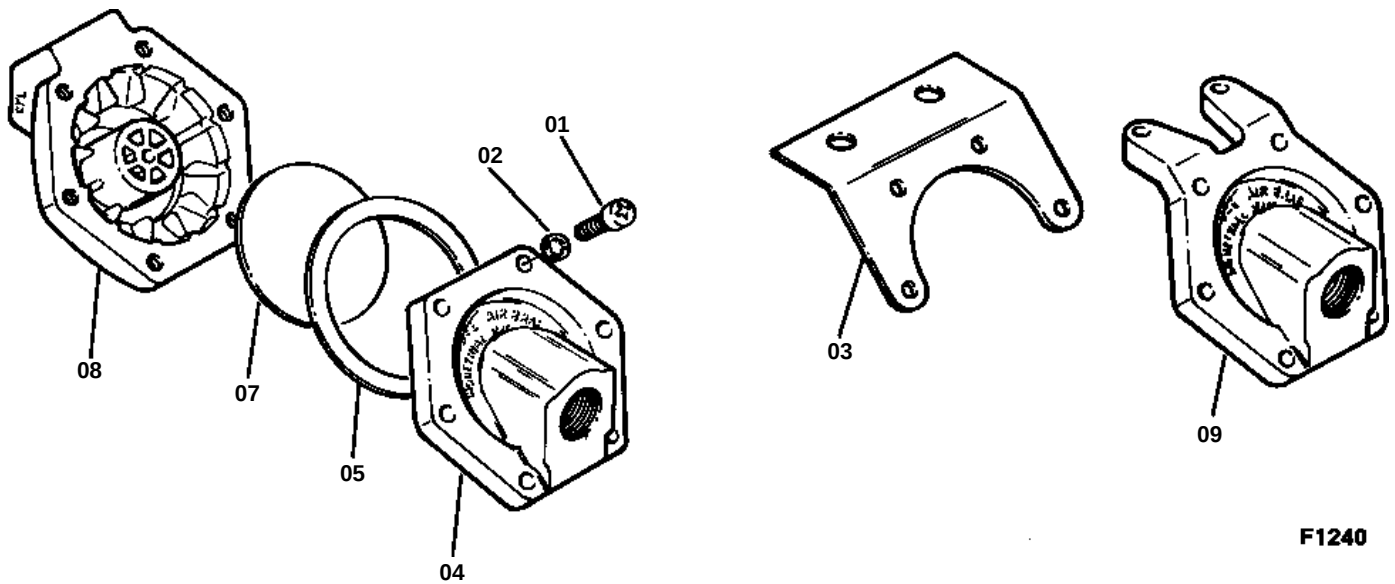
Machine
Serial Number: **4184**

VALVE, AIR, QUICK-RELEASE

[illegible]



VALVE, AIR, QUICK-RELEASE



F1240



Machine
Serial Number: **4184**

VALVE, AIR, QUICK-RELEASE

[illegible]



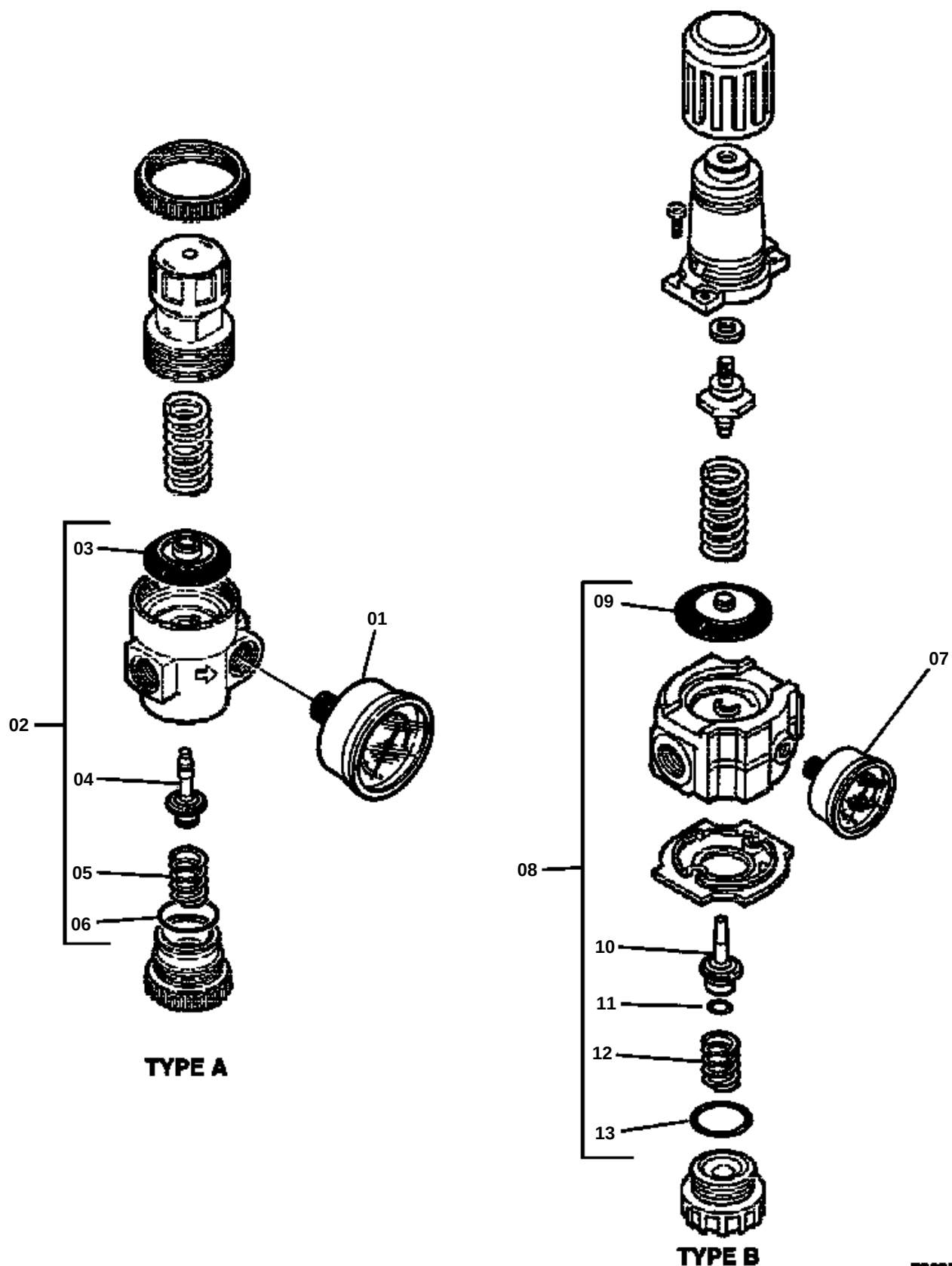
Machine
Serial Number: **4184**

VALVE, AIR SOLENOID (Not illustrated)

[illegible]



REGULATOR, AIR PRESSURE



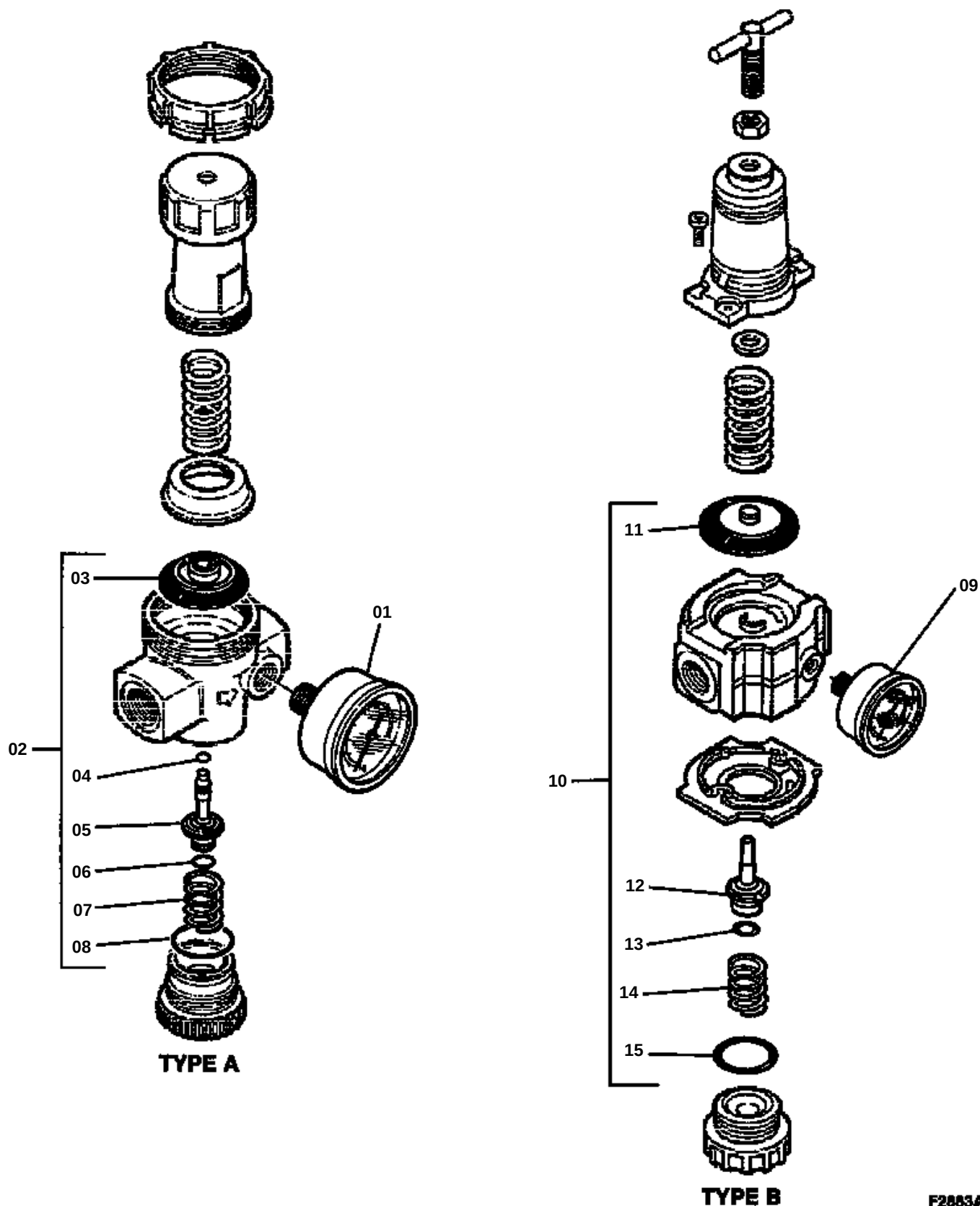
F2835A

REGULATOR, AIR PRESSURE

TYPE A			
--	36Z1604D1	REGULATOR, AIR PRESSURE	
01	89Z559	• GAUGE, Pressure	1
02	1045Z3349	• KIT, Service	1
03		• • DIAPHRAGM	1
04		• • VALVE	1
05		• • SPRING, Valve	1
06		• • O-RING	1
TYPE B			
--	36Z1604D1	REGULATOR, AIR PRESSURE	
07	R41722D2	• GAUGE, Pressure	1
08	1045Z3866	• KIT, Service	1
09		• • DIAPHRAGM	1
10		• • VALVE	1
11		• • O-RING	1
12		• • SPRING, Valve	1
13		• • O-RING	1



REGULATOR, AIR PRESSURE



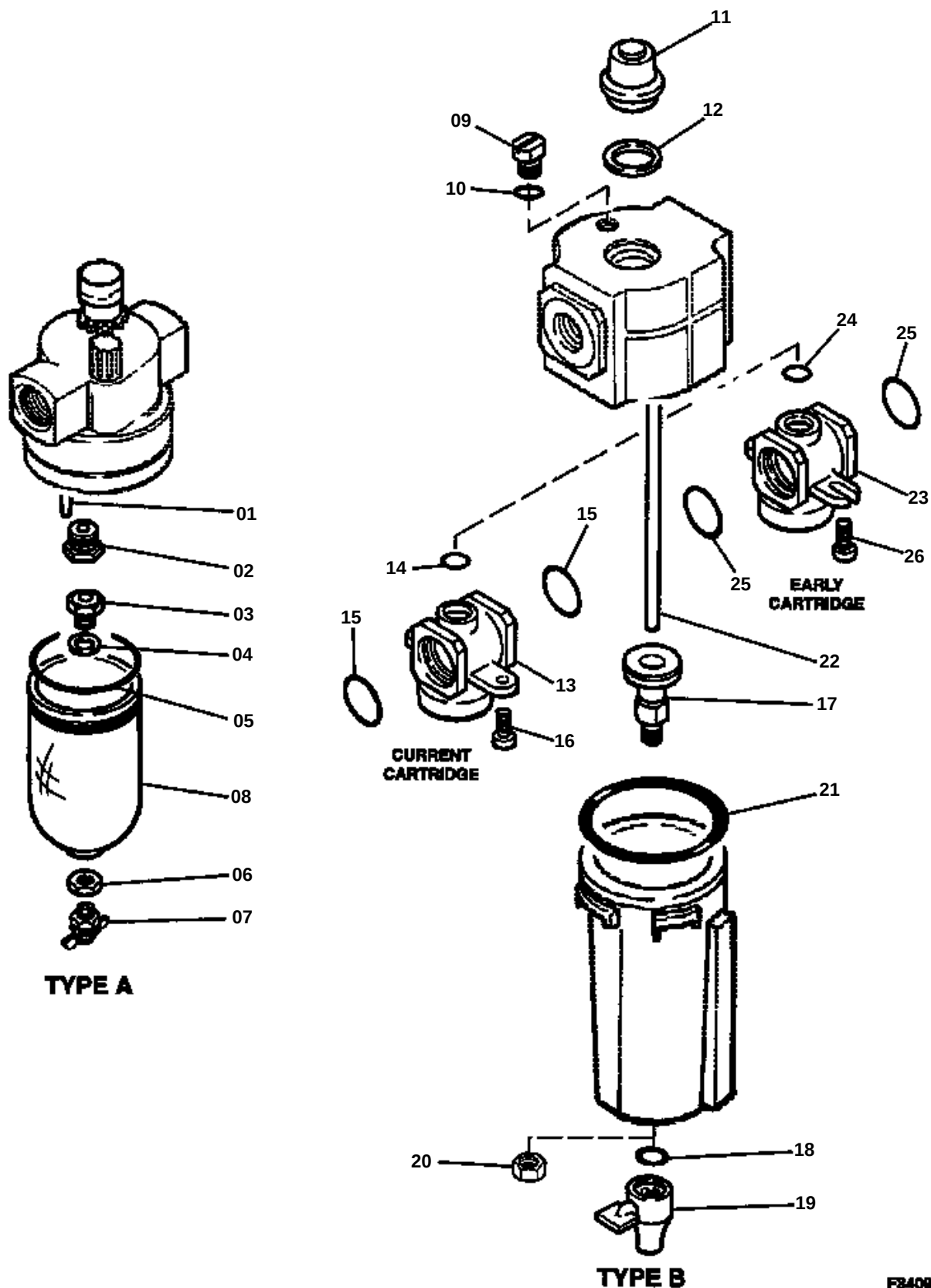
F2003A

REGULATOR, AIR PRESSURE

TYPE A			
	36Z1604D2	REGULATOR, AIR PRESSURE	
01	R41722D1	• GAUGE, Pressure	1
02	1045Z3350	• KIT, Service	1
03		• • DIAPHRAGM	1
04		• • O-RING	1
05		• • VALVE	1
06		• • O-RING	1
07		• • SPRING, Valve	1
08		• • O-RING	1
TYPE B			
--	36Z1604D2	REGULATOR, AIR PRESSURE	
09	R41722D1	• GAUGE, Pressure	1
10	1045Z3861	• KIT, Service	1
11		• • DIAPHRAGM	1
12		• • VALVE	1
13		• • • O-RING	1
14		• • SPRING	1
15		• • O-RING	1



LUBRICATOR, AIR



F3409A



LUBRICATOR, AIR

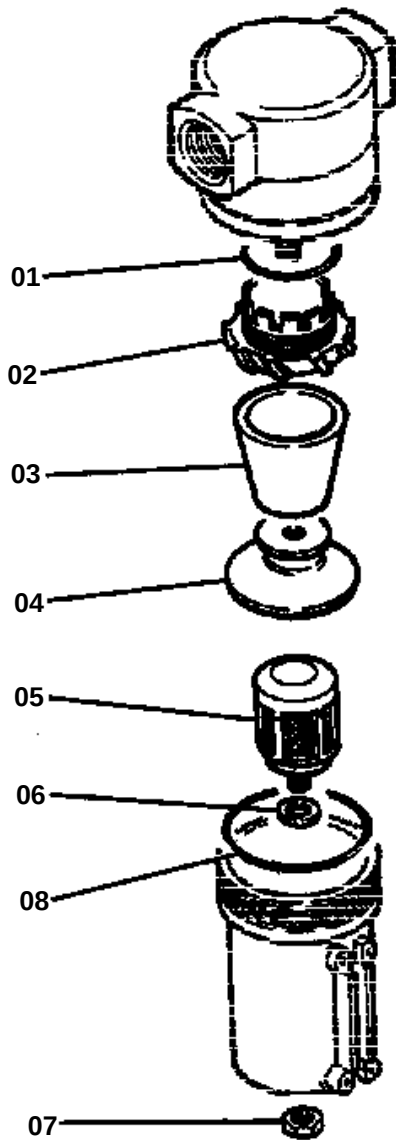
TYPE A			
--	46Q38D9	LUBRICATOR, AIR	
01	1044Z1444	· TUBE, Siphon	1
02	1036Z1995	· VALVE, Check	1
03	1020Z12237	· INSERT AND GASKET ASSEMBLY	1
04	1020Z12235	· · GASKET	1
05	1020Z12232	· NUT	1
06	1044Z1445	· COCK, Drain	1
07	1045Z3463	· O-RING	1
08	NSS	· BOWL	1

TYPE B			
--	46Q38D9	LUBRICATOR, AIR	
09	1020Z13461	· PLUG, Fill	1
10	1045Z3870	· · O-RING	1
11	1044Z1701	· SIGHT FEED DOME, Green, Oil Fog	1
12	1045Z3871	· · O-RING	1
13	1034Z57	· CARTRIDGE, Oil Fog (Type A)	1
14	1045Z3874	· · O-RING	1
15	1045Z3875	· · O-RING	2
16	1020Z13462	· · SCREW	2
17	1036Z2295	· DRAIN ASSEMBLY, Manual	1
18	1045Z3872	· · O-RING	1
19	1036Z2296	· · VALVE, Drain	1
20	1020Z12232	· NUT	1
21	1045Z3873	· O-RING	1
22	1044Z1444	· TUBE, Siphon cut to 106.4mm.4-3/8 in	1
23	1034Z56	· CARTRIDGE, Oil Fog (Type B)	1
24	1045Z3874	· · O-RING	1
25	1045Z3875	· · O-RING	2
26	1020Z13462	· · SCREW	2

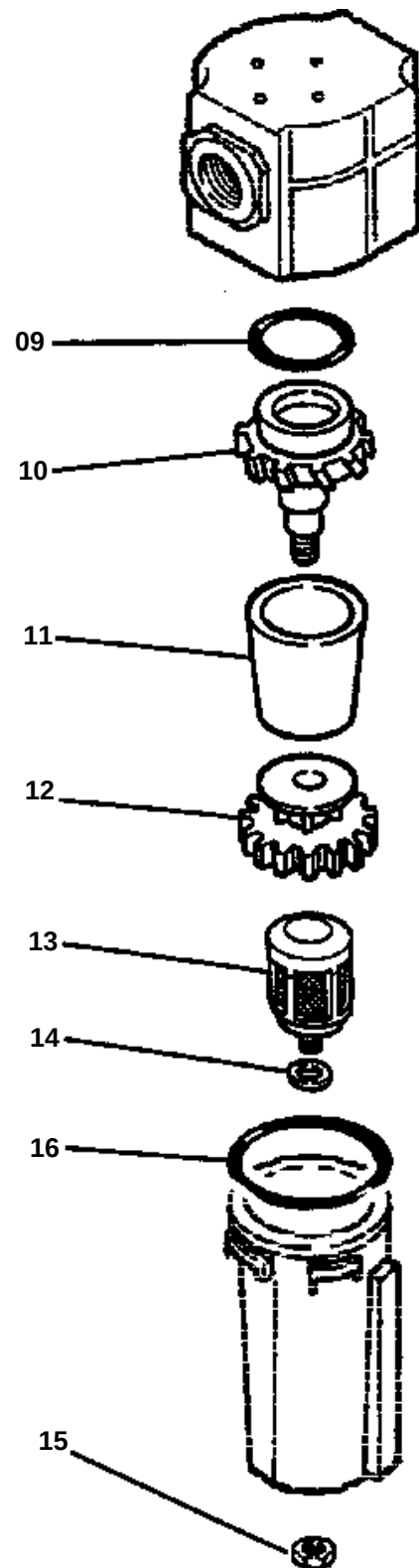
Early (Type B) and current (Type A) cartridge assemblies are not interchangeable. Always replace a used cartridge with an identical cartridge. Early cartridges (Type B) have a slotted tab; current cartridges (Type A) have a hole in the tab.



FILTER, AIR



TYPE A



TYPE B

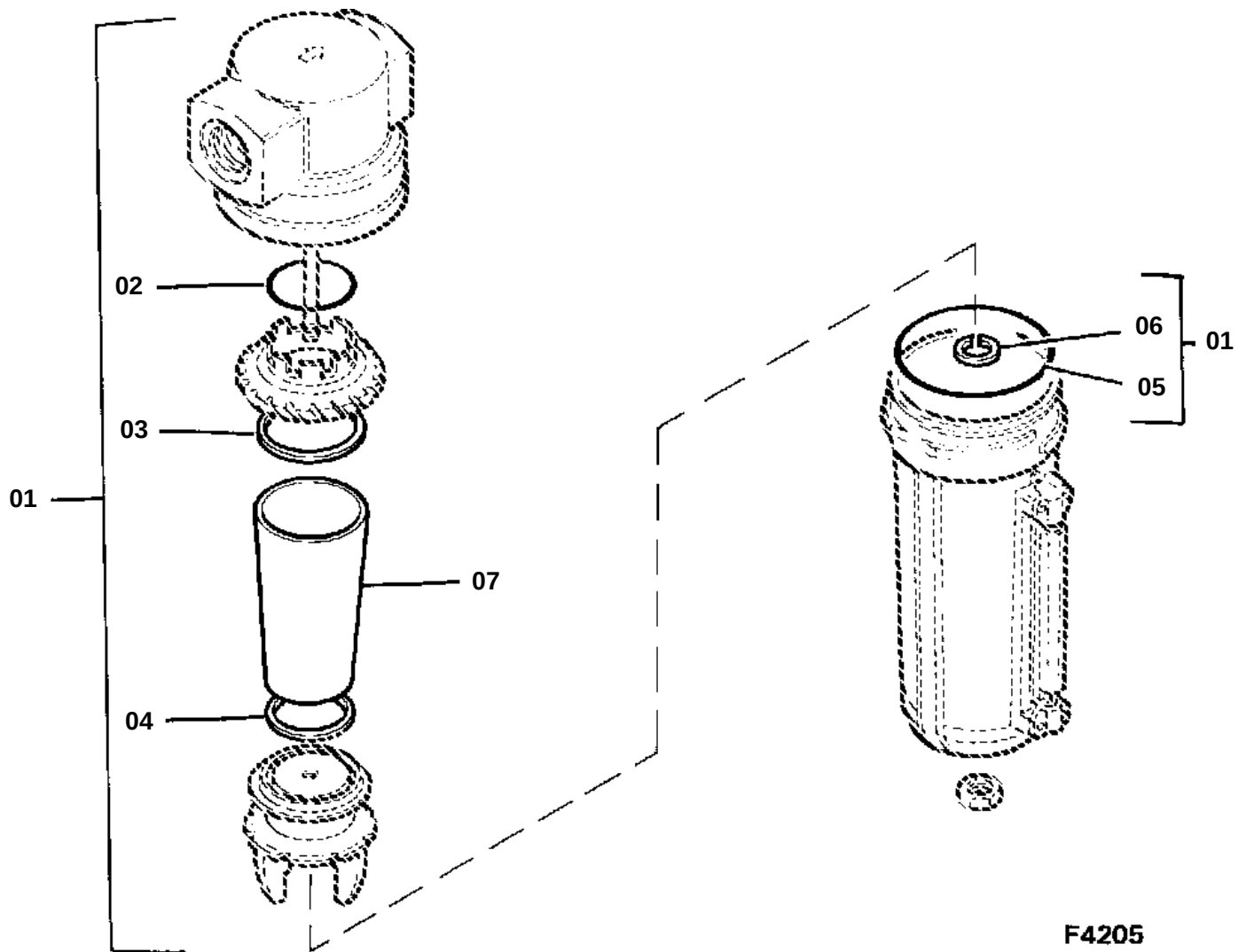
F3408A

FILTER, AIR

TYPE A			
--	46Q39D9	FILTER, AIR	
01	1045Z3461	• O-RING	1
02	1027Z483	• LOUVER	1
03	1046Z871	• ELEMENT, Filter	1
04	1027Z484	• BAFFLE	1
05	1046Z872	• AUTOMATIC DRAIN ASSEMBLY	1
06	1020Z12234	• • GASKET	1
07	1020Z12232	• • NUT	1
08	1045Z3461	• O-RING	1
TYPE B			
--	46Q39D9	FILTER, AIR	
09	1045Z3877	• O-RING	1
10	1027Z634	• LOUVER, Center post	1
11	1046Z1068	• ELEMENT, Filter 40 micron	1
12	1027Z633	• BAFFLE	1
13	1046Z872	• AUTOMATIC DRAIN ASSEMBLY	1
14	1020Z12234	• • GASKET	1
15	1020Z12232	• • NUT	1
16	1045Z3876	• O-RING (May Not Be Used On Later Versions)	1



FILTER, AIR



F4205



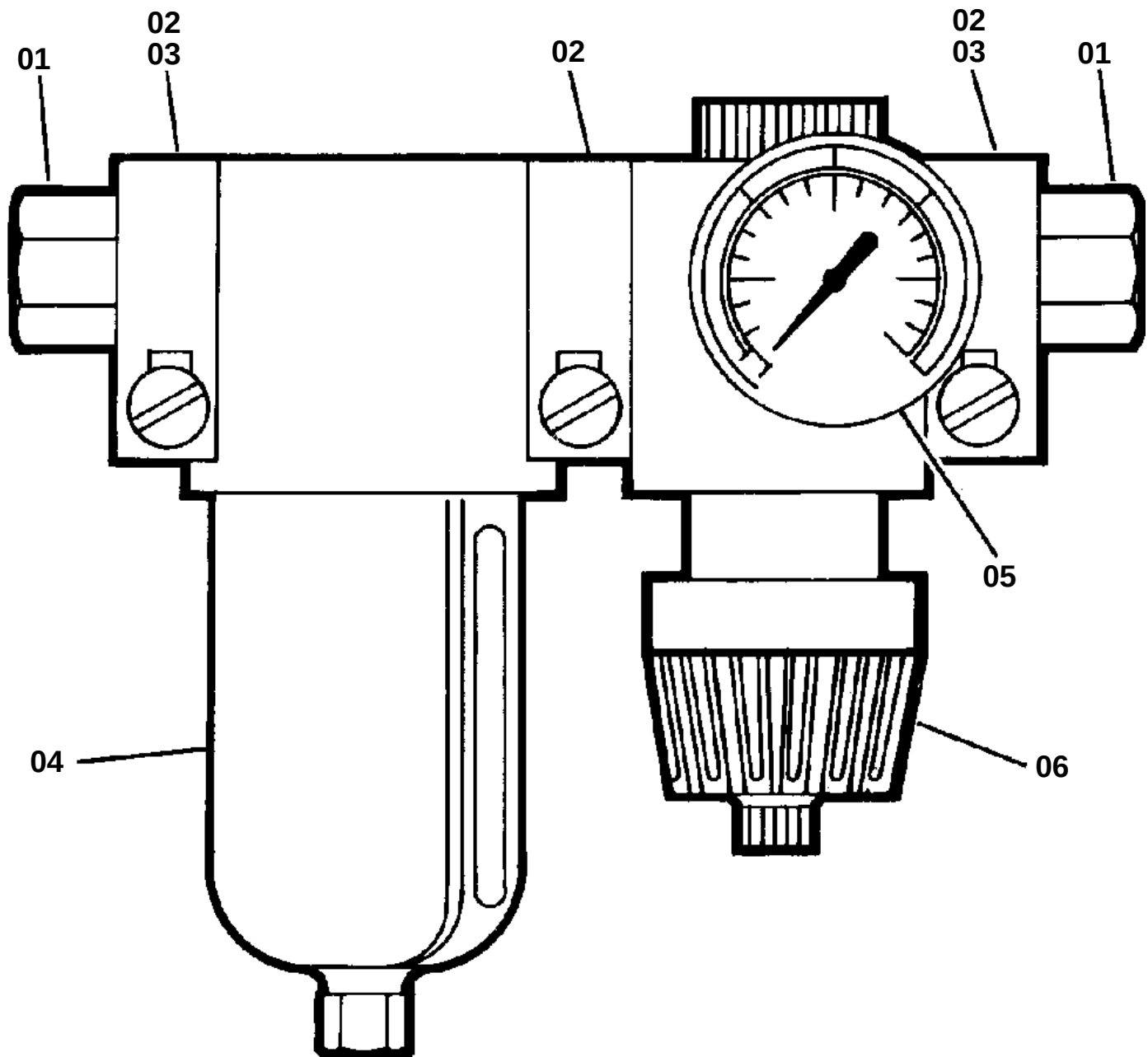
Machine
Serial Number: **4184**

FILTER, AIR

REF	PART NO.	DESCRIPTION	QTY
	46Z355D4	FILTER, AIR	
01	1046Z299	• KIT, Seal	1
02		• • O-Ring	1
03		• • GASKET	1
04		• • GASKET	1
05		• • GASKET	1
06		• • O-Ring	1
07	46Z355D3	• ELEMENT, Filter	1



FILTER/REGULATOR ASSEMBLY





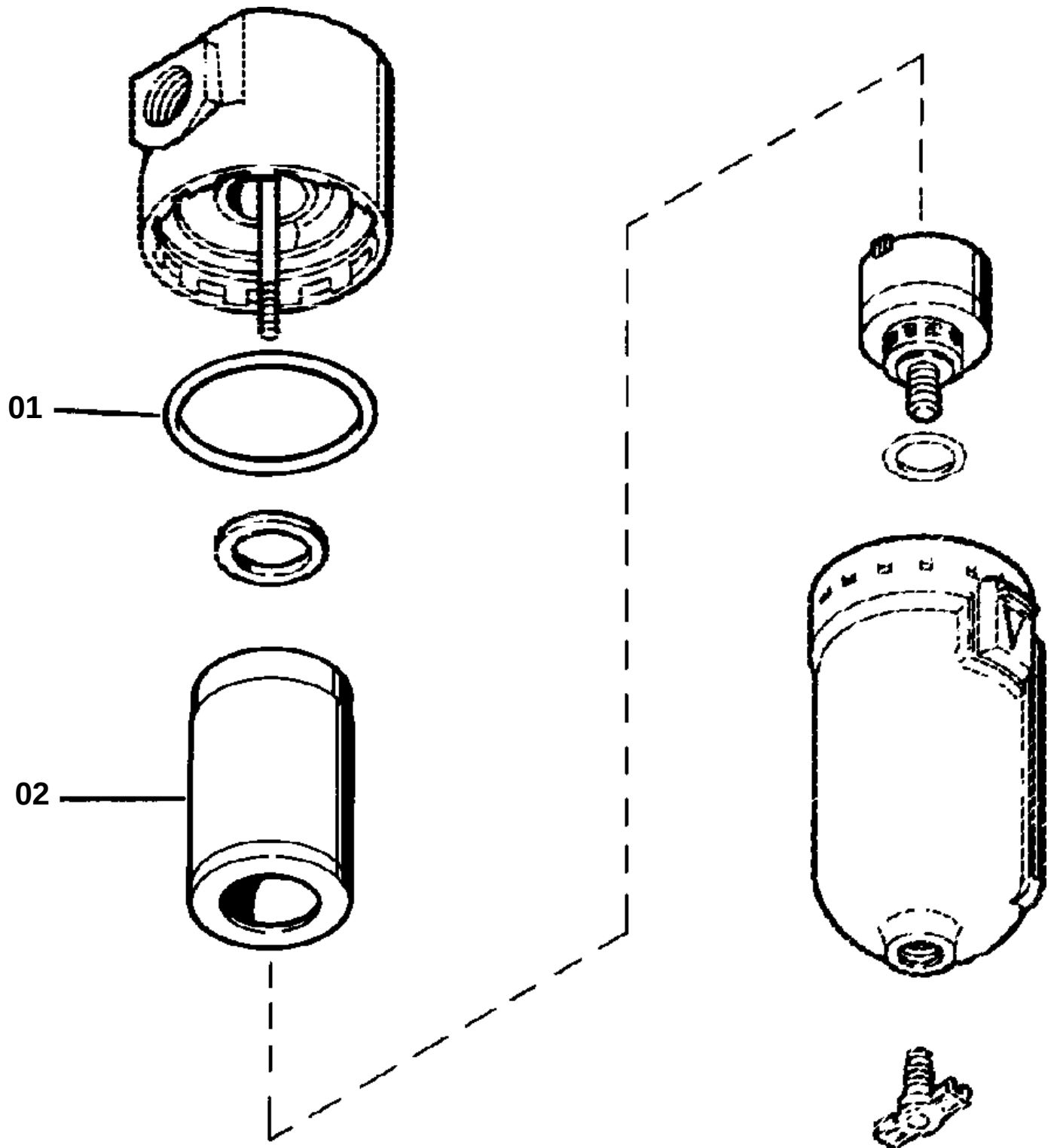
Machine
Serial Number: **4184**

FILTER/REGULATOR ASSEMBLY

[illegible]



FILTER, AIR





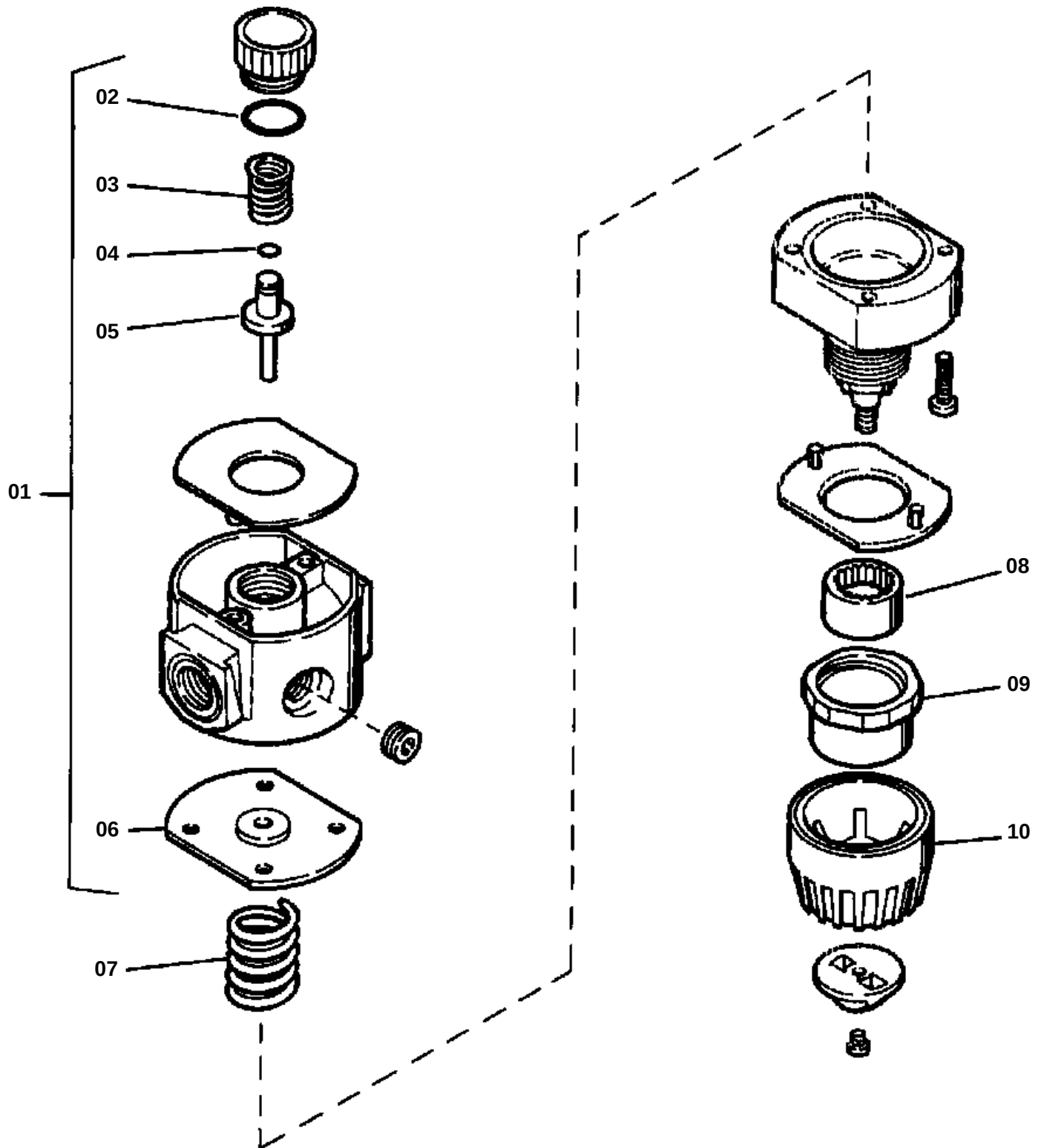
Machine
Serial Number: **4184**

FILTER, AIR

REF	PART NO.	DESCRIPTION	QTY
	1046Z789	FILTER, AIR	
01	1045Z3493	· O-RING, Bowl	1
02	1046Z879	· ELEMENT, Air Filter	1



REGULATOR, AIR PRESSURE





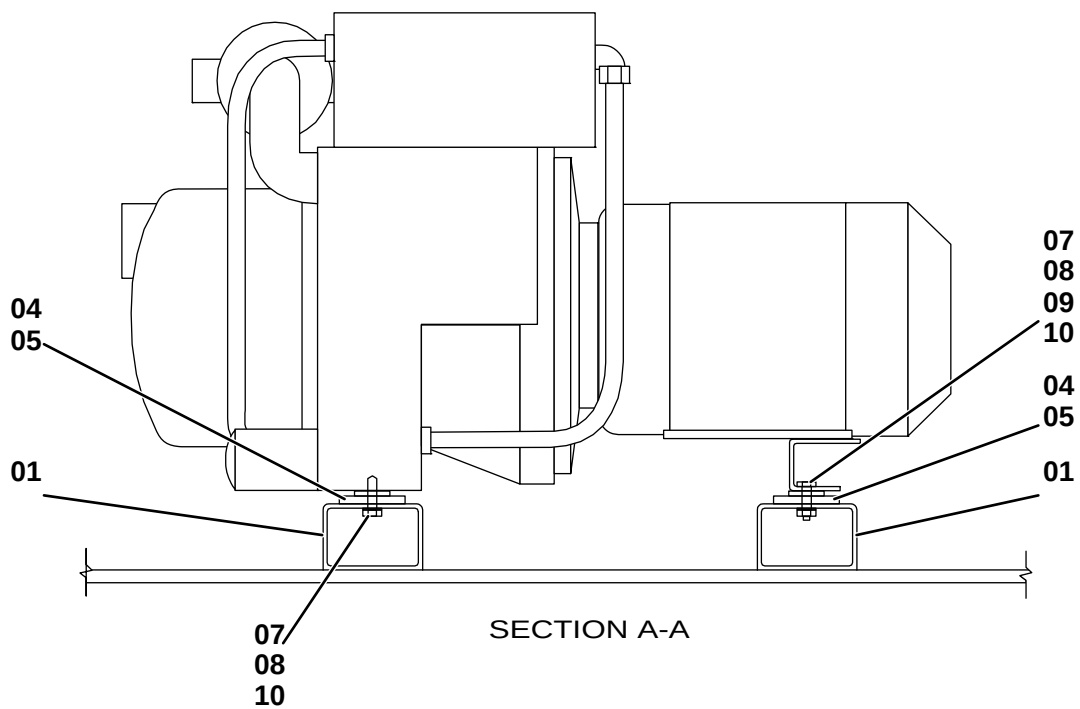
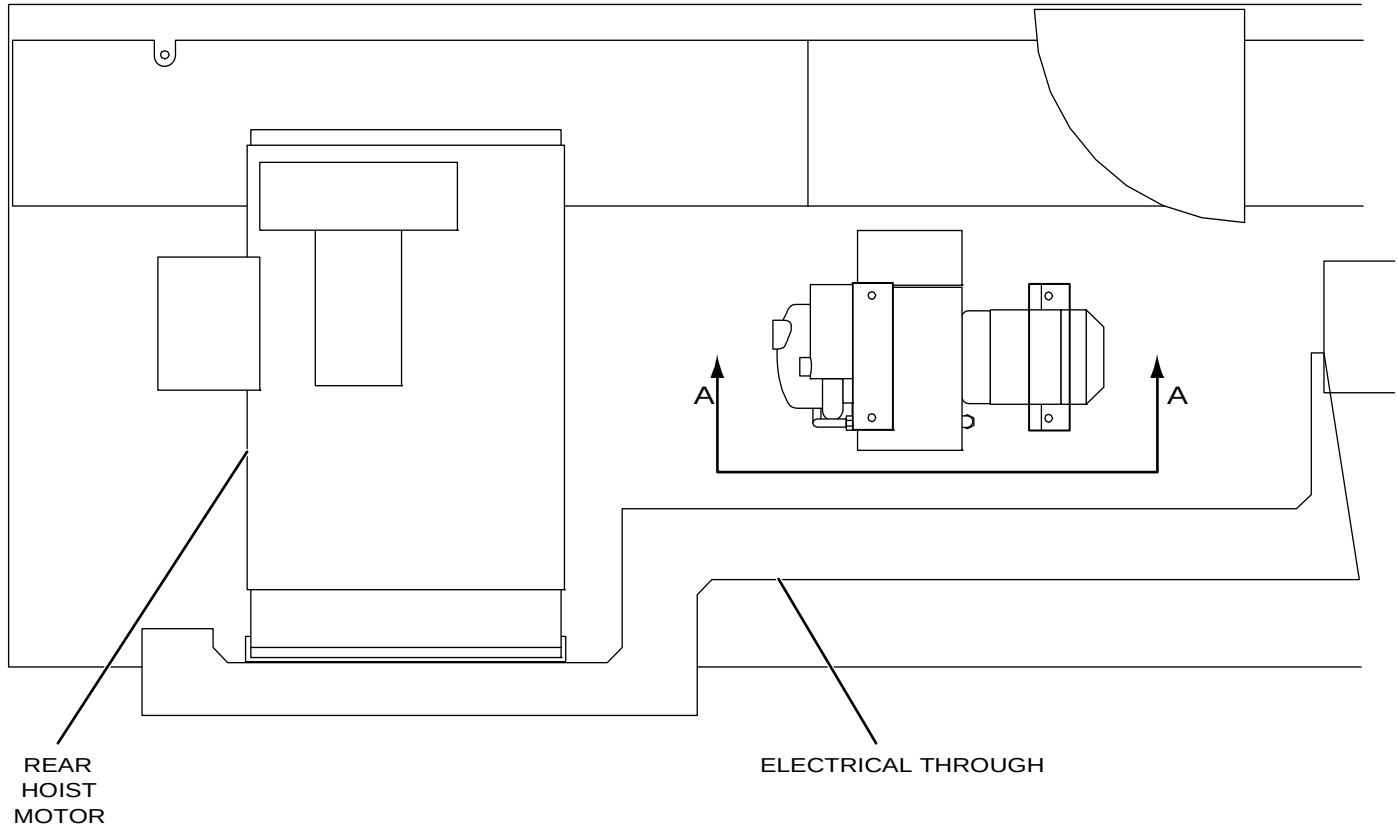
Machine
Serial Number: **4184**

REGULATOR, AIR PRESSURE

[illegible]



INSTALLATION, AIR COMPRESSOR



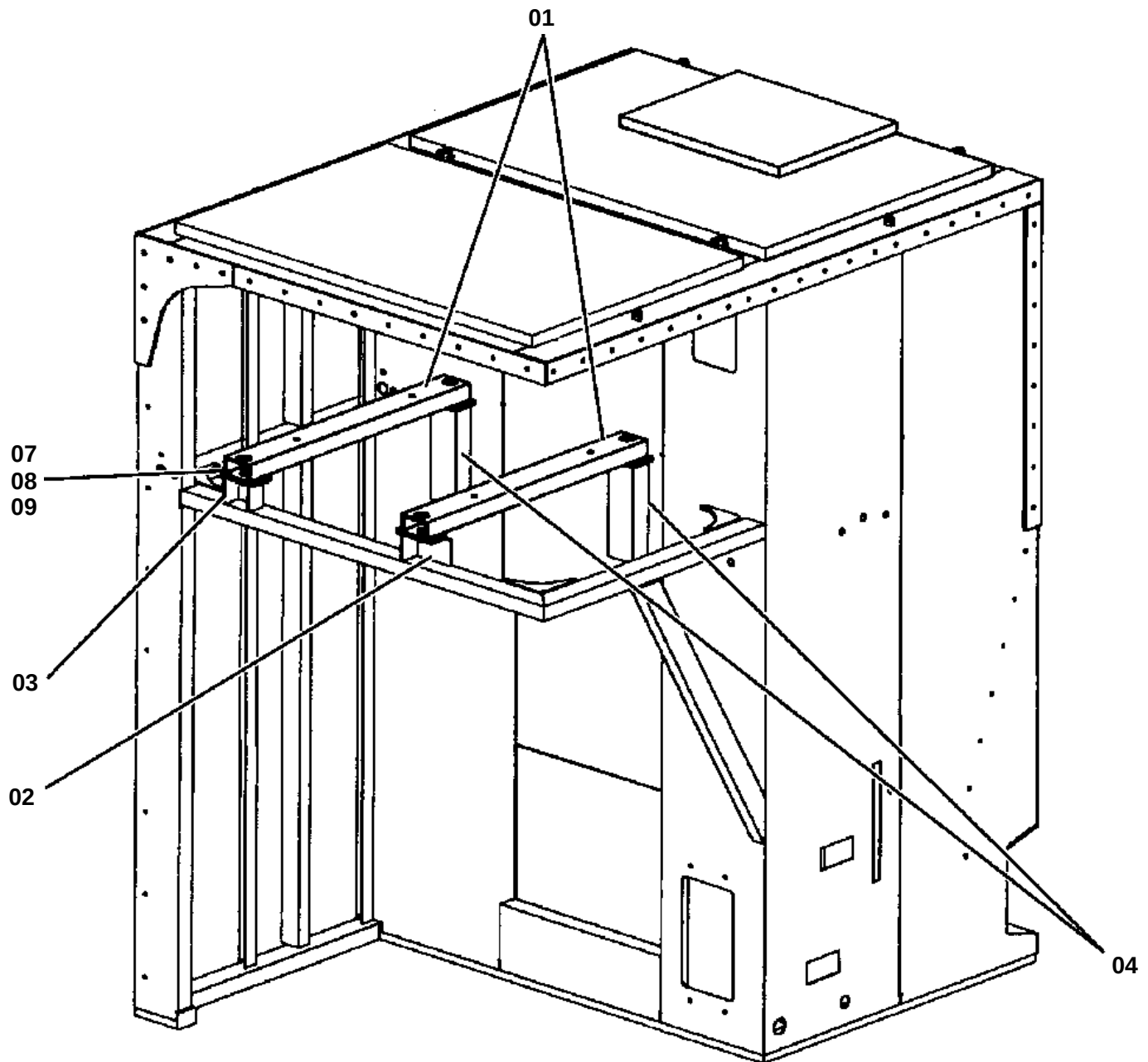
F6888

INSTALLATION, AIR COMPRESSOR

REF	PART NO.	DESCRIPTION	QTY
	R38915F1	INSTALLATION, AIR COMPRESSOR	
01	R36090D1	• BRACKET, Mounting	2
02		NOT USED	
03		NOT USED	
04	16T8946D1	• PAD, Rubber	4
05	16Z864D1	• PAD, Wool	4
06		NOT USED	
07	18Z466D3	• WASHER, Bevel	4
08	0626M12070	• SCREW, Hex Hd Cap M12 x70	4
09	2001M012	• NUT, M12	2
10	18Z1732D6	• WASHER, Conical	4



REWORK, ROOM, L.H. LUBE



F6874A

REWORK, ROOM, L.H. LUBE

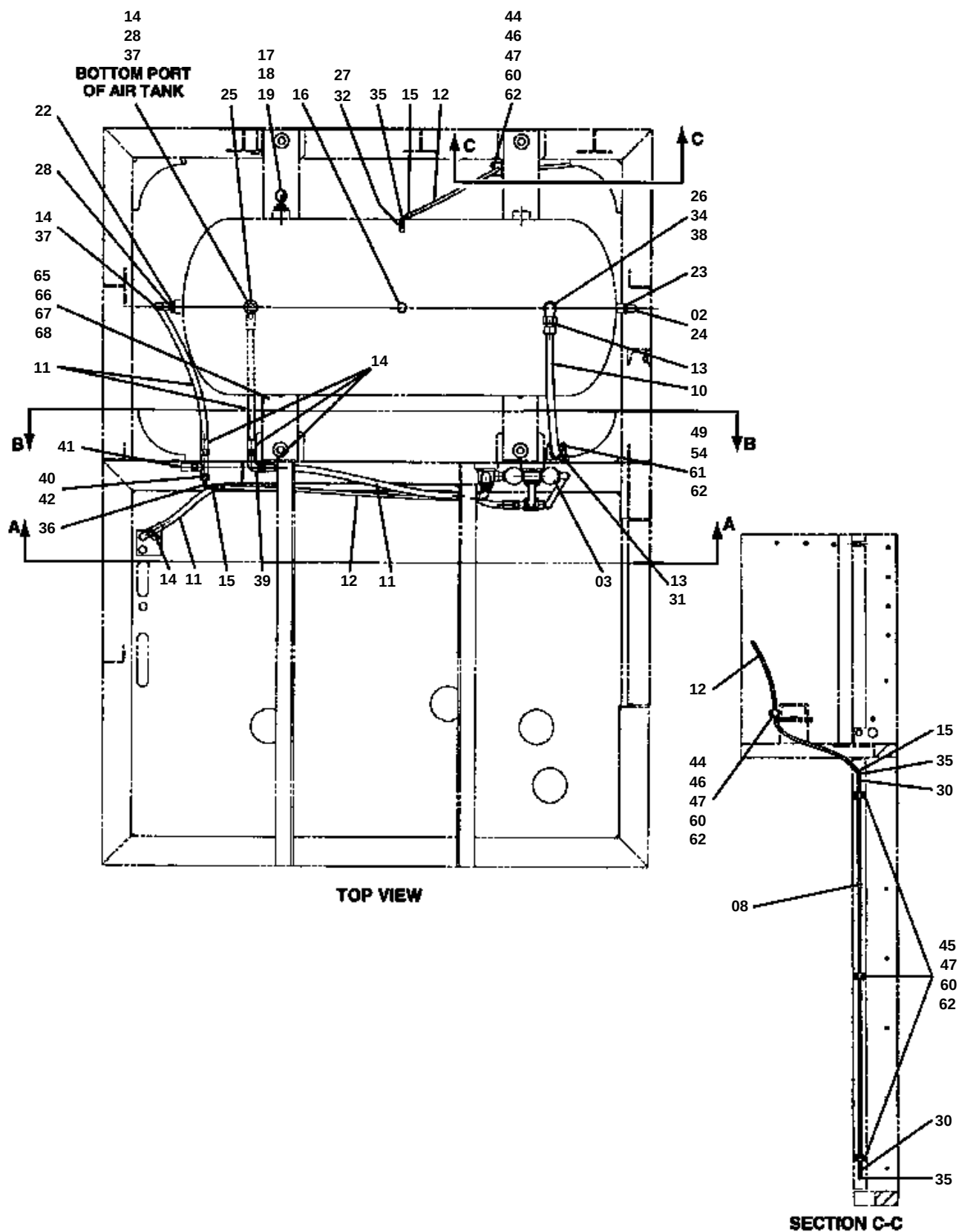
REF	PART NO.	DESCRIPTION	QTY
	R41921F1	REWORK, ROOM, L.H. LUBE	
01	R34155D1	• SUPPORT, Air tank	2
02	R34058D1	• BRACKET, Mounting, air tank	1
03	R34059D1	• BRACKET, Mounting, air tank	1
04	R34059D2	• BRACKET, Mounting, air tank	2
05		NOT USED	
06		NOT USED	
07	20Q260D446	• SCREW, Hex hd cap 3/4-10UNC x 1-1/2 in lg	4
08	20Q270D48	• NUT, Hex 3/4-10UNC	4
09	3616V015	• WASHER, Lock 3/4 in	4

NOTE; The following are not illustrated and are specific to this serial number. They are not included with this rework assembly.

10	R33698D1	TANK, Air - 200 gal horizontal w/legs	1
11	R36961D1	COMPRESSOR, 30 hp rotary	1



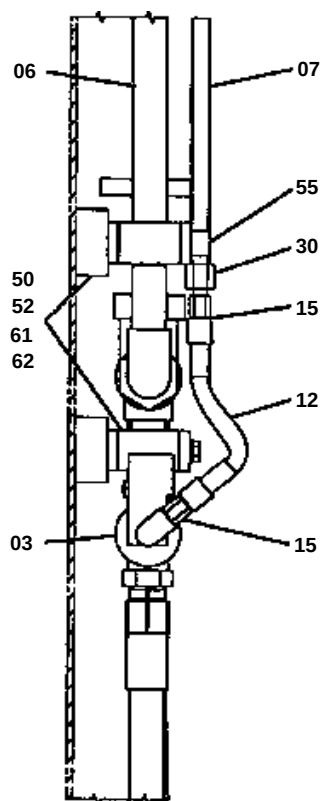
AIR PIPING, TANK (RECEIVER)



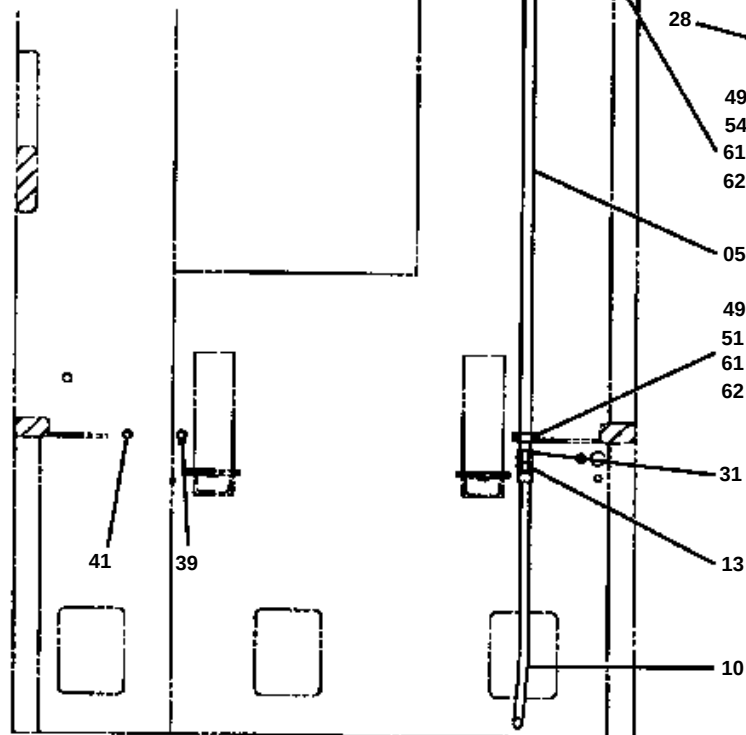
F6642



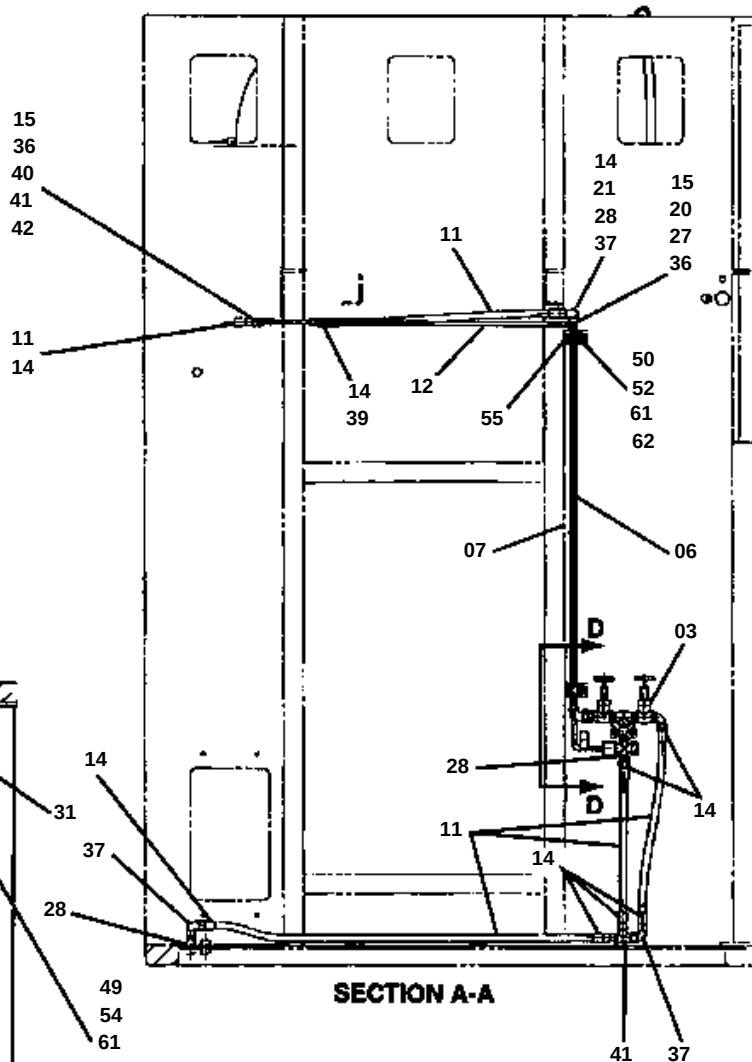
AIR PIPING, TANK (RECEIVER)



SECTION D-D



SECTION B-B



SECTION A-A

F6642A



AIR PIPING, TANK (RECEIVER)

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R34350F2	AIR PIPING, Tank (Receiver)		
01		NOT USED		
02	36Z1140	• VALVE, Safety	1	
03	944N34F1	• DRAIN ASSEMBLY	1	8-5
04		NOT USED		
05		NOT USED		
06	013413180	• PIPE, 3/4 x 60 in lg	AR	
07	13413052	• PIPE, 1/4 x 56-1/2 in lg	AR	
08		NOT USED		
09		NOT USED		
10		NOT USED		
11	443465102	• HOSE, 3/4 in	AR	
12	443465091	• HOSE, 1/4 in	AR	
13		NOT USED		
14	44Q3D17	• HOSE END	12	
15	44Q3D1	• HOSE END	4	
16	2423V009	• PLUG, 2 NPT	1	
17	89Z46	• GAUGE, Air	1	
18	2401V021	• PIPE, Bushing	1	
19	2401V010	• PIPE, Bushing	1	
20	2414V017	• PIPE, Female 90 deg	1	
21	2414V020	• PIPE, Female 90 deg	1	
22	2401V016	• PIPE, Bushing	1	
23	2401V011	• PIPE, Bushing	1	
24	2416V019	• STREET, 90 deg	1	
25	2423V008	• PLUG, 1-1/2 NPT	1	
26	44Z590D27	• CONNECTOR, Male	1	
27	44Z590D4	• CONNECTOR, Male	1	
28	44Z590D17	• CONNECTOR, Male	5	
29		NOT USED		
30	44Z597D4	• CONNECTOR, Female	1	
31		NOT USED		
32	2446V002	• PLUG, 1/4 NPT	1	
33		NOT USED		
34	44Z511D9	• CAP	1	
35		NOT USED		
36	44Z473D3	• SWIVEL, 90 deg	3	



AIR PIPING, TANK (RECEIVER)

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	44Z473D8	• SWIVEL, 90 deg	5	
38	44Z473D11	• SWIVEL, 90 deg	1	
39	44Z489D8	• BULKHEAD, 90 deg	1	
40	44Z492D5	• REDUCER	1	
41	44Z592D8	• BULKHEAD, Run Tee	2	
42	20Z649D9	• NUT	1	
43		NOT USED		
44		NOT USED		
45		NOT USED		
46		NOT USED		
47		NOT USED		
48		NOT USED		
49	44Z2570D18	• CLAMP, Hose	2	
50	44Z2569D13	• PIPE, Clamp	2	
51		NOT USED		
52	44Z2566D2	• CLAMP, Plate	2	
53		NOT USED		
54		NOT USED		
55	32Z423D10	• CLAMP	2	
56		NOT USED		
57		NOT USED		
58		NOT USED		
59		NOT USED		
60		NOT USED		
61	20Q260D265	• SCREW, Hex Hd Cap 3/8-16UNC x 2-1/2 in lg	4	
62	18Z1732D5	• WASHER, Conical 3/8 in	4	
63		NOT USED		
64		NOT USED		
65	20Q260D404	• SCREW, Hex Hd Cap 5/8-11UNC x 2 in lg	4	
66	20Q270D40	• NUT, 5/8-11UNC	4	
67	3616V013	• WASHER, Lock 5/8 in	4	
68	3632V008	• WASHER, Plain 5/8 in	4	
69		NOT USED		
70		NOT USED		
--	R33698D5	TANK (RECEIVER), 200 Gal (Not part of R34350F2)	1	

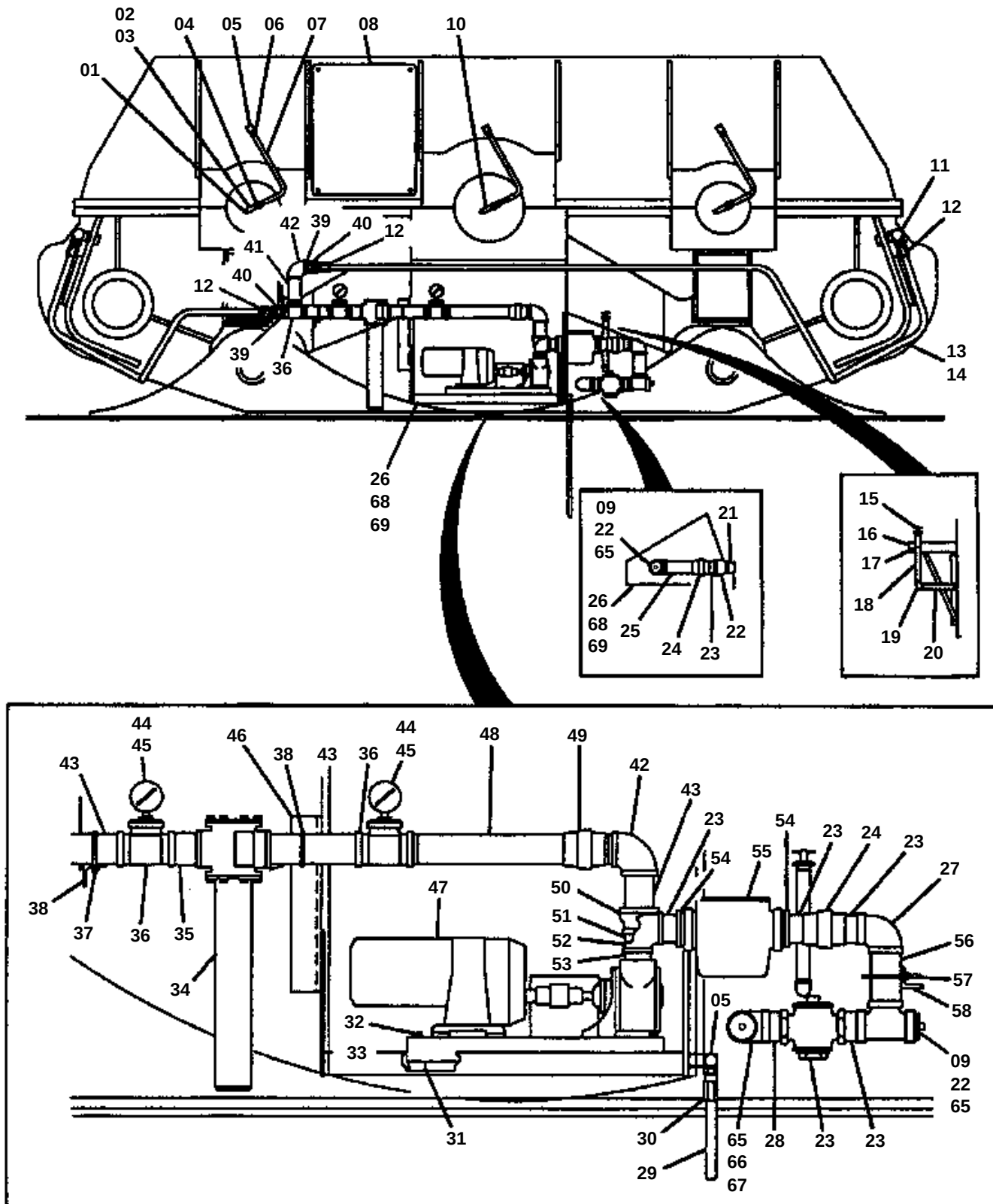


Group 9 - Lubrication Systems

Description	Page
LUBRICATION, HOIST GEARCASE	9-1
LUBRICATION PIPING, BOOM	9-7
LUBRICATION SYSTEM, RING GEAR	9-8
LUBRICATION PIPING, REVOLVING FRAME	9-9
LUBRICATION PIPING, SWIVEL	9-10
LUBRICATION PIPING, GANTRY	9-11
LUBRICATION PIPING, CARBODY	9-12
LUBE SYSTEM MATERIAL, CRAWLER FRAME	9-13
LUBRICATION PIPING, CABINET BLOWERS	9-14
DRAIN, TRANSMISSIONS	9-15



LUBRICATION, HOIST GEAR CASE



F2592A



LUBRICATION, HOIST GEAR CASE

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6466F2	LUBRICATION, HOIST GEAR CASE		
01	44Z193D2	• PLUG, Magnetic	5	
02	2426V004	• TEE, Pipe, 1/2 in	5	
03	44Z943D7	• NIPPLE, Hex, 3/4 x 1/2 in (2 each front/rear shaft)	4	
04	44Z590D13	• ADAPTER, Male, Pipe, J.I.C. 1/2 in	5	
05	44Z591D13	• ADAPTER, Male, Pipe, J.I.C., 1/2 in x 90 deg	6	
06	44Q3D12	• HOSE END, Swivel J.I.C.	10	
07	44Z1317D12	• HOSE, Low Pressure, 1/2 in x 12 ft	1	
08	R49244D1	• PLATE, Instruction	1	
09	44Z193D6	• PLUG, Magnetic	1	
10	44Z943D5	• NIPPLE, Hex, 1/2 x 3/8 in (center shaft only)	1	
11	44Z591D22	• ELBOW, Male Pipe, J.I.C., 1-1/2 in x 90 deg	2	
12	44Q5D42	• HOSE END, Swivel, J.I.C., 1-3/8 in	4	
13	44Z2053D25	• HOSE, Medium Pressure, 1-3/8 in I.D. x 25 ft	1	
14	0911V007	• CLAMP, Hose	12	
15	14Z207D1	• STICK, Dip	1	
16	16N3348D136	• ANGLE, 2 x 2 x 1/4 x 11 in	1	
17	20Q3D1	• U-BOLT, 1 in	1	
18	18P988D12	• PIPE, Standard, 1 x 12-7/8 in	1	
19	2415V021	• ELBOW, Pipe, 1 in x 90 deg	1	
20	2420V187	• NIPPLE, Pipe, 1 x 8-1/2 in	1	
21	2420V255	• NIPPLE, Pipe, 2 x 2 in	1	
22	2402V024	• REDUCER, Pipe tee, 2-1/2 to 1-1/2 in	1	
23	2420V283	• NIPPLE, Close, 2-1/2 x 2-1/2 in	6	
24	2481V010	• UNION, Female, 2-1/2 in	2	
25	18P3238D28	• PIPE, Standard 2-1/2 x 12-1/2 in	1	
26	16J1559D1	• BASE, Mounting	1	
27	2415V025	• ELBOW, Pipe, 2-1/2 in x 90 deg	1	
28	36Z41D7	• COCK, Shut-off, 2-1/2 in	1	
29	44Z1317D3	• HOSE, Low Pressure, 1/2 in I.D. x 3 ft	1	
30	44Q5D17	• HOSE END, Swivel, J.I.C., 1/2 in	1	
31	718N233D210	• PAD, Mounting	4	
32	20Q260D333	• SCREW, Hex Hd Cap, 1/2-13 UNC x 2-3/4 in	4	
33	3616V011	• WASHER, Lock, 1/2 in	4	
34	46U110D1	• FILTER, Oil	1	9-6
35	2420V258	• NIPPLE, Pipe, 2 x 3 in	1	
36	2426V009	• TEE, Pipe, 2 in	3	

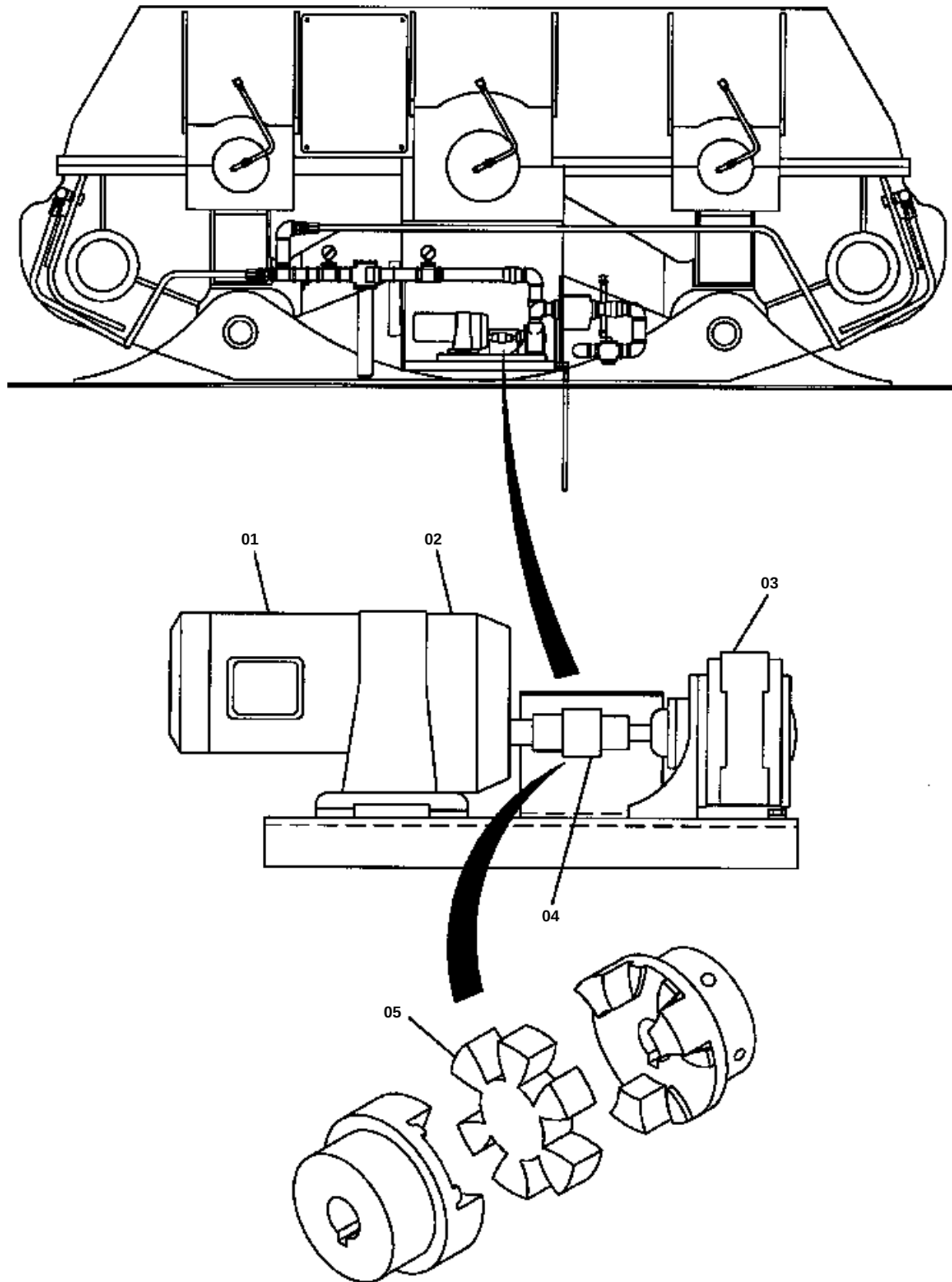


LUBRICATION, HOIST GEAR CASE

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	20Q3D5	• U-BOLT, 2 in	2	
38	16N3348D139	• ANGLE, 2 x 2 x 3/8 x 18-1/2 in	1	
39	2402V023	• BUSHING, Reducing, 2 x 1-1/2 in	2	
40	44Z590D23	• ADAPTER, Male, Pipe, J.I.C., 1-1/2 in	2	
41	2420V278	• NIPPLE, Pipe, 2 x 10 in	1	
42	2415V024	• ELBOW, 2 in x 90 deg	3	
43	2420V270	• NIPPLE, Pipe, 2 x 6 in	3	
44	2402V513	• BUSHING, Pipe, Reducing, 2 x 1/4 in	2	
45	89Z839D7	• GAUGE, Pressure	2	
46	16N3348D137	• ANGLE, 2 x 2 x 3/8 x 17 in	1	
47	37U140D4	• PUMP ASSY, Lubrication	1	9-2
48	18P3237D13	• PIPE, Standard, 2 x 18 in	1	
49	2481V009	• UNION, Male/Female, 2 in	1	
50	2410V546	• REDUCER, Pipe, 2 x 1-1/2 in	1	
51	2420V232	• NIPPLE, PIPE, 1-1/2 x 3-1/2 in	1	
52	2442V027	• ELBOW, Reducing, 2-1/2 x 1-1/2 in x 90 deg	1	
53	2420V225	• NIPPLE, Close, 1-1/2 x 1-3/4 in	1	
54	2402V514	• BUSHING, Pipe, Reducing, 3 x 2-1/2 in	2	
55	46Q108D3	• STRAINER	1	
--	1045Z3357	• • O-RING	1	
	1046Z838	• • BASKET, Strainer	1	
56	2420V293	• NIPPLE, Pipe, 2-1/2 x 4-1/2 in	1	
57	20Q3D7	• U-BOLT, 2-1/2 in	1	
58	16N3348D138	• ANGLE, 2 x 2 x 3/8 x 24-1/4 in	1	
59	R25794D1	• PLATE, Connector (Not Shown)	1	
60	44Z1D7	• FITTING, Lube - Button Head 3/8 in (Not Shown)	2	
61	44Z591D12	• ELBOW, JIC Male Pipe 90 deg (Not Shown)	2	
62	44Z590D11	• ADAPTER, JIC Male Pipe (Not Shown)	2	
63	44Q5D18	• HOSE END, Swivel J.I.C. 13/32 in (Not Shown)	4	
64	44Z1339D30	• HOSE, Medium Pressure 13/32 in I.D. x 30 ft (Not Shown)	AR	
65	2426V010	• TEE, Pipe 2-1/2 in	2	
66	2402V042	• BUSHING, Reducing, 2-1/2 x 1/2 in	1	
67	2446V504	• PLUG, Pipe 1/2 in	1	
68		NOT USED		
69		NOT USED		



PUMP ASSEMBLY, HOIST GEARCASE LUBRICATION



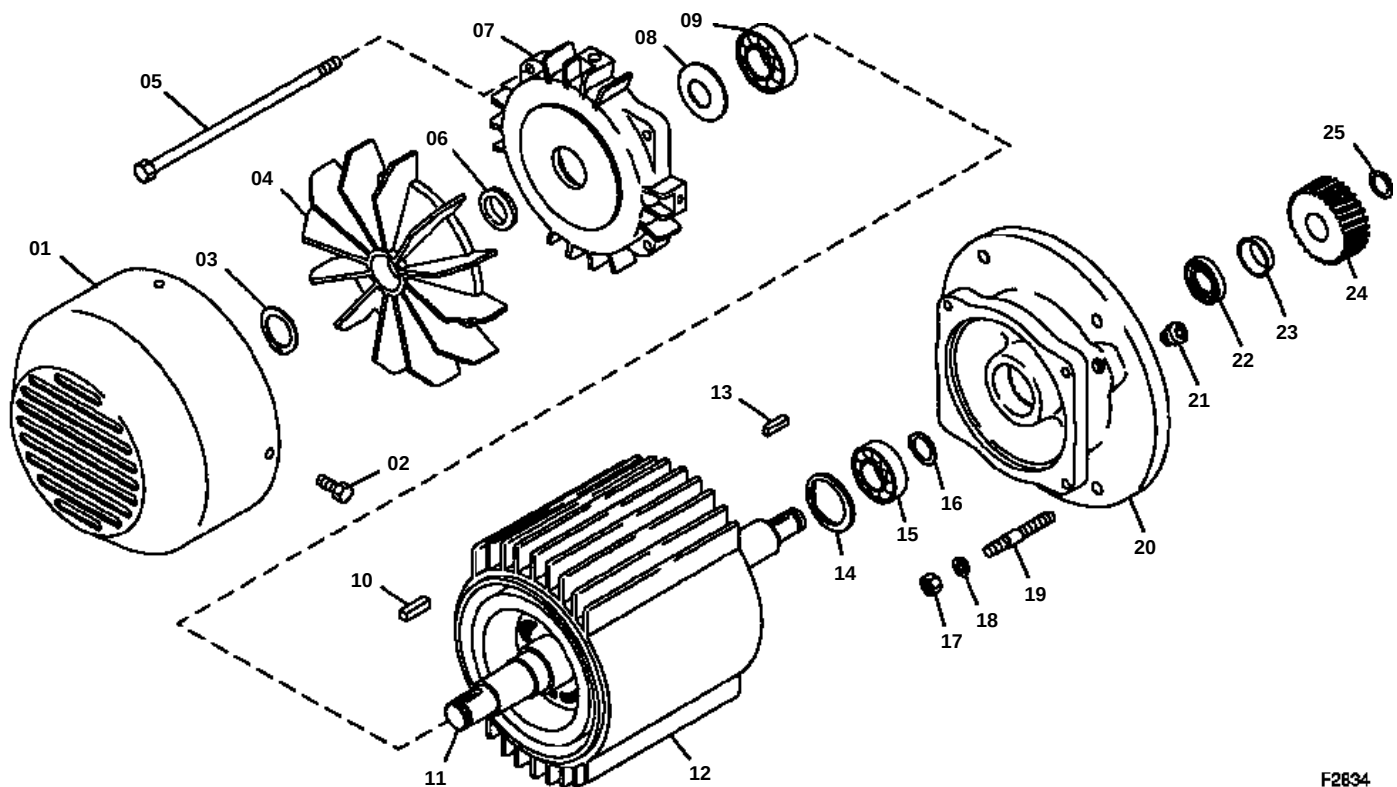
F2682

PUMP ASSEMBLY, HOIST GEARCASE LUBRICATION

[illegible]



MOTOR, LUBRICATION PUMP

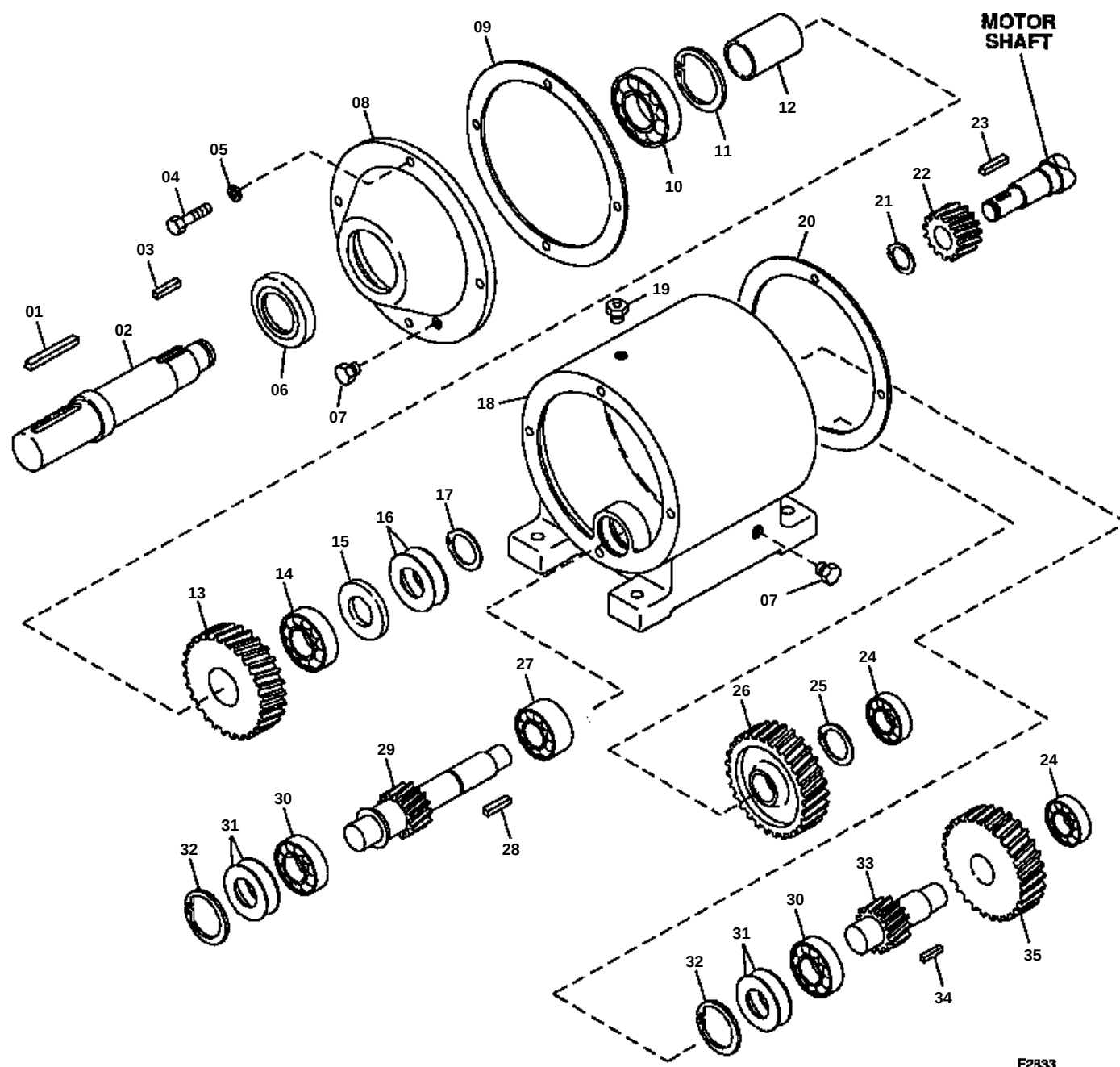


F2634

MOTOR, LUBRICATION PUMP

REF	PART NO.	DESCRIPTION	QTY
	88U74D4	MOTOR, LUBRICATION PUMP	
01	1014Z4471	• GUARD, Fan	1
02	1020Z11839	• SCREW, Hex Hd Cap	4
03	1018Z11668	• RING, Snap	1
04	1074Z386	• FAN	1
05	1020Z11845	• SCREW, Hex Hd Cap	4
06	1077Z146	• V-RING	1
07	1014Z4473	• SHIELD, Bearing Side	1
08	1020Z11846	• WASHER, Spring	1
09	1025Z3950	• BEARING, Ball	1
10	1020Z11954	• KEY	1
11	1074Z394	• ROTOR	1
12		• STATOR (Not sold separately. Order complete motor)	1
13	1020Z11816	• KEY	1
14	1018Z11691	• RING, Snap	1
15	1025Z3951	• BEARING, Ball	1
16	1018Z11692	• RING, Snap	1
17	1020Z11821	• NUT, Hex	4
18	1020Z11830	• WASHER, Lock	4
19	1020Z11818	• STUD	4
20	1018Z11693	• FLANGE	1
21	1020Z11834	• PLUG	1
22	1018Z11699	• SEAL, Oil	1
23	1018Z11698	• SLINGER, Oil	1
24		• PINION (Furnished with reducer)	1
25	1018Z11690	• RING, Snap	1

REDUCER, GEAR





REDUCER, GEAR

REF	PART NO.	DESCRIPTION	QTY
	53Z801D3	REDUCER, GEAR	
01	1018Z11675	• KEY	1
02	1010Z2353	• SHAFT, Output	1
03	1020Z11835	• KEY	1
04	1020Z11819	• SCREW, Hex Hd Cap	4
05	1020Z11831	• WASHER, Lock	4
06	1018Z11667	• SEAL, Oil	1
07	1020Z11834	• PLUG, Drain	4
08	1014Z4014	• COVER, Gear Case	1
09	1020Z11842	• GASKET	1
10	1025Z3945	• BEARING, Ball	1
11	1018Z11665	• RING, Snap	1
12	1018Z11664	• SPACER	1
13		• GEAR (See note at end of list)	1
14	1025Z3944	• BEARING, Ball	1
15	1018Z11663	• SPACER	1
16	1020Z11826	• SHIM, 0.3mm	?
	1020Z11848	• SHIM, 0.1mm	?
17	1018Z11662	• RING, Snap	1
18	1014Z4013	• GEARCASE	1
19	1020Z11828	• PLUG, Breather	1
20	1020Z11841	• GASKET	1
21		• RING, Snap (Furnished with motor)	1
22		• PINION (See note at end of list)	1
23		• KEY (Furnished with motor)	1
24	1025Z3943	• BEARING, Ball	2
25	1018Z11660	• RING, Snap	1
26		• GEAR (See note at end of list)	1
27	1025Z3947	• BEARING, Ball	1
28	1020Z11814	• KEY	1
29		• SHAFT, Pinion (See note at end of list)	1
30	1025Z3946	• BEARING, Ball	2
31	1020Z11827	• SHIM, 0.3mm	?
	1020Z11824	• SHIM, 0.1mm	?
32	1020Z11822	• RING, Snap	2
33		• SHAFT, Pinion (See note at end of list)	1
34	1020Z11813	• KEY	1



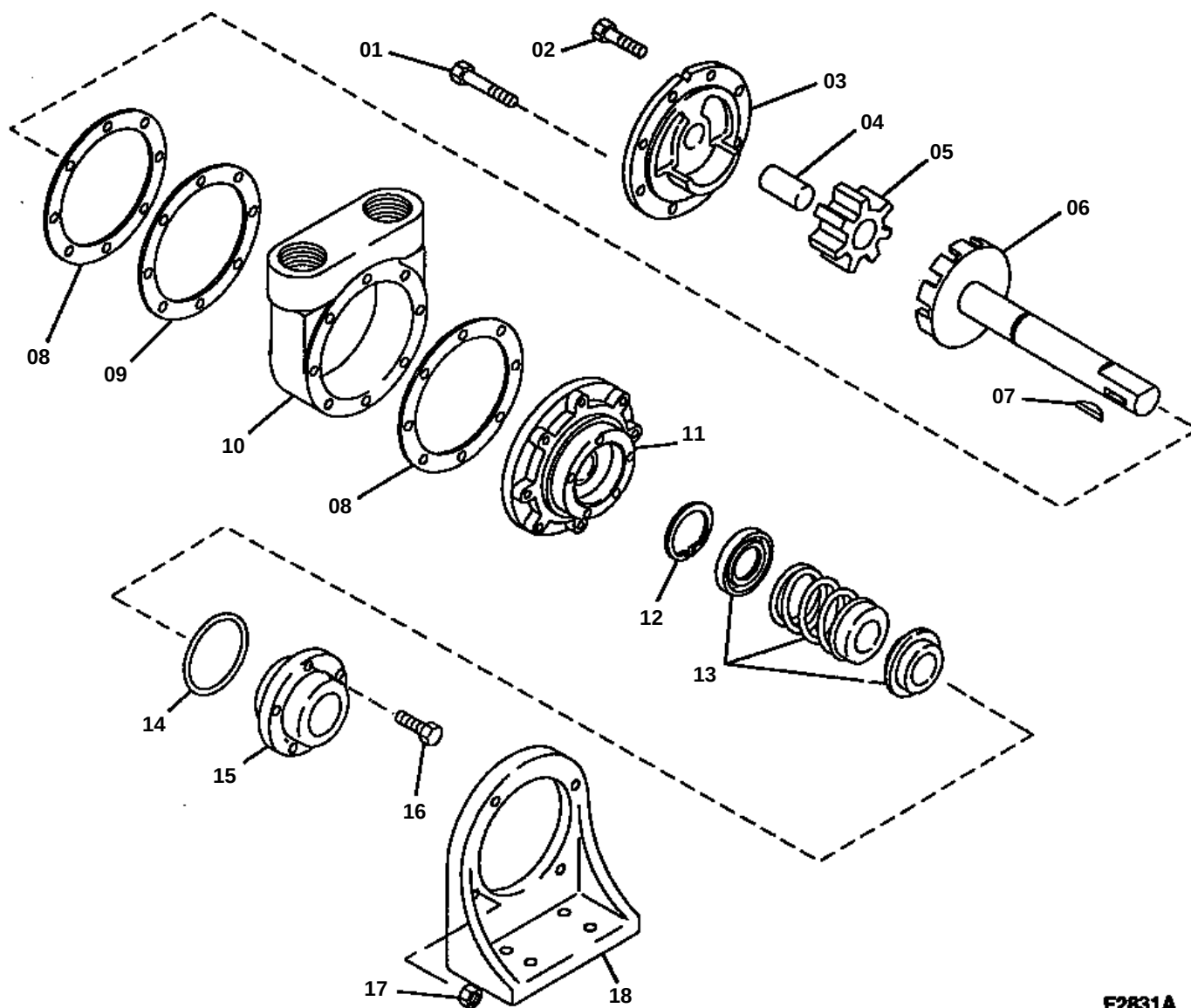
REDUCER, GEAR

REF	PART NO.	DESCRIPTION	QTY
35		• GEAR (See note at end of list)	1

NOTE: When ordering, furnish complete nameplate data including Model and Serial Numbers



PUMP, LUBRICATION



F2831A



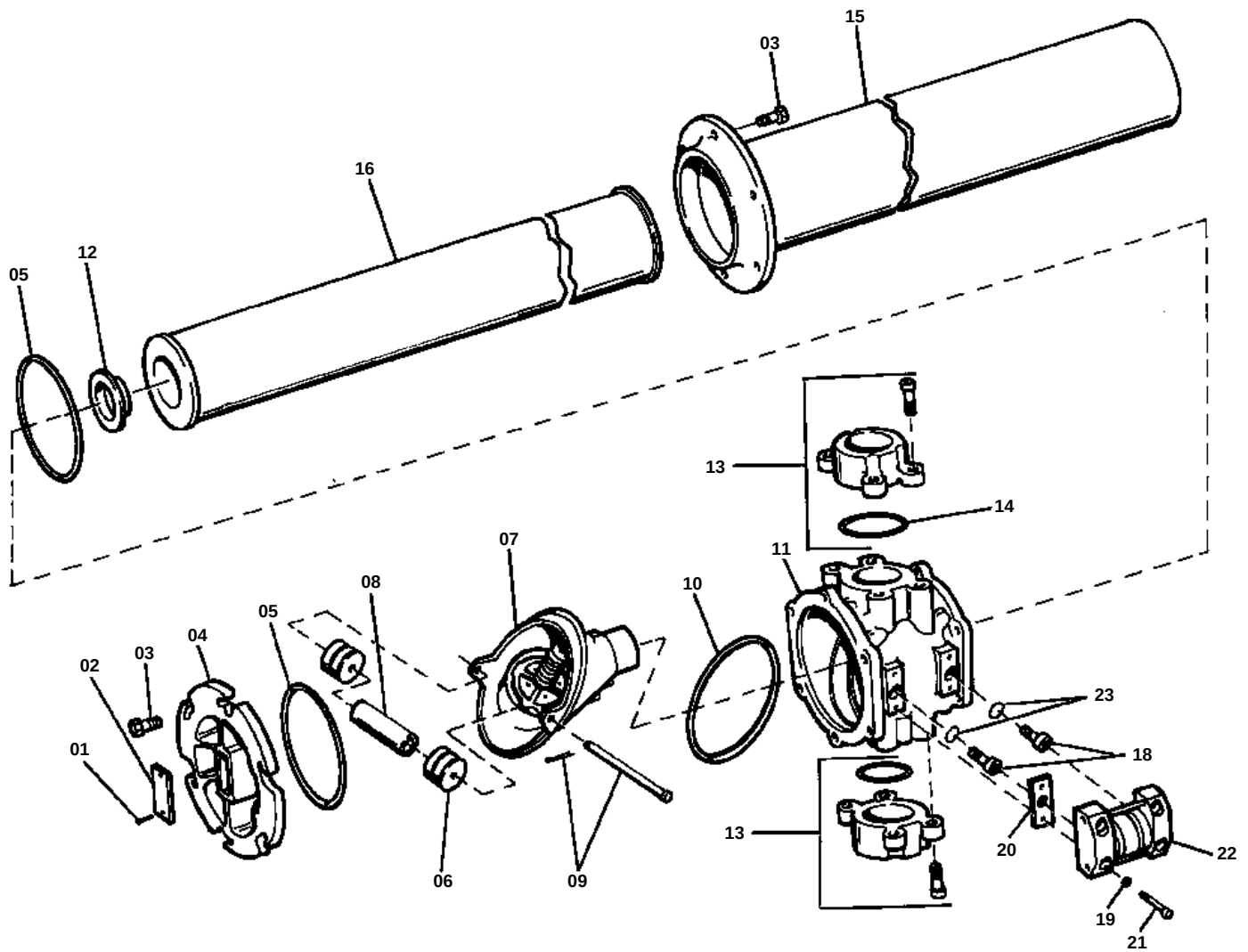
Machine
Serial Number: **4184**

PUMP, LUBRICATION

REF	PART NO.	DESCRIPTION	QTY
	37Z331D2	PUMP, LUBRICATION	
01	1020Z11383	· SCREW, Hex Hd Cap 5/16-18UNC X 4 in.	4
02	1020Z11384	· SCREW, Hex Hd Cap 5/16-18UNC X 3-1/4 in.	4
03	1014Z3883	· COVER	1
04	1019Z2178	· PIN, Idler	1
05	1001Z2333	· GEAR, Idler	1
06	1037Z520	· ROTOR	1
07	20Z1727D6	· KEY, 3/16 X 3/4 in.	1
08	1020Z11941	· GASKET, Housing	2
09	1020Z11387	· SHIM, 0.004 in. thick	AR
	1020Z11388	· SHIM, 0.005 in. thick	AR
	1020Z11386	· SHIM, 0.003 in. thick	AR
10	1014Z3882	· HOUSING	1
11	1016Z1074	· BRACKET ASSEMBLY	1
12	1018Z11379	· RING, Seal Retaining	1
13	1018Z11380	· SEAL ASSEMBLY, Mechanical	1
14	1045Z3264	· O-RING	1
15	1014Z3881	· PLUG, Housing	1
16	1020Z11382	· SCREW, Hex Hd Cap 1/4-20UNC X 7/8 in.	5
17	1020Z11385	· NUT, Hex 5/16-18UNC	4
18	1014Z4043	· FOOT	1



FILTER, OIL



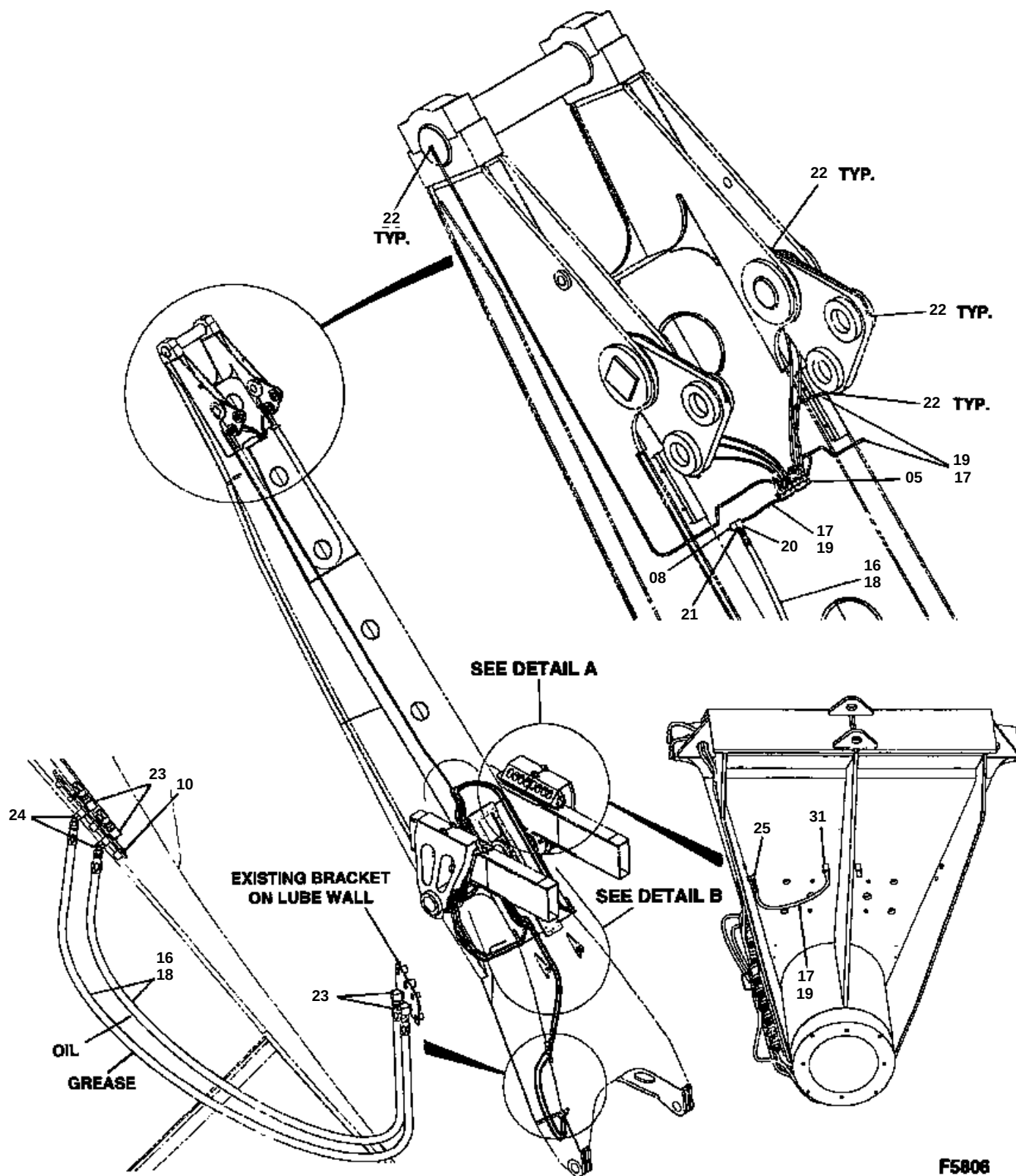
F2996

FILTER, OIL

REF	PART NO.	DESCRIPTION	QTY
	46U110D1	FILTER, OIL	
01	1020Z12020	• SCREW, Name plate	2
02	1032Z1198	• PLATE, Name, unstamped	1
03	1020Z12063	• SCREW, Hex Hd Cap 5/16-18UNC x 1 in	12
04	1014Z4098	• COVER, Without name plate	1
05	1045Z3364	• O-RING, Cover and Bowl	2
06	1075Z1576	• MAGNET	2
07	1036Z1953	• DIVERTER, Bypass Valve Assembly	1
08	1018Z11839	• TUBE, Handle Diverter	1
09	1006Z1888	• HANDLE, Diverter with Hitch Clip Pin	1
10	1045Z3364	• O-RING, Diverter	1
11	1036Z1955	• HEAD	1
12	1020Z12021	• GROMMET, Element End Cap	1
13	1036Z1956	• KIT, Flange	1
14	1045Z3366	• • O-RING, Buna	1
15	1036Z1952	• BOWL	1
16	R36586D2	• ELEMENT, Filter	1
17		NOT USED	
18	1036Z1954	• KIT, Plug	2
19	1018Z11840	• WASHER, Lock	4
20	1020Z12023	• GASKET, Paper	2
21	0630V007	• SCREW, Soc Hd Cap 10-14UNC x 1-1/4 in	4
22	1050Z249	• INDICATOR, Visual	1
23	1045Z3367	• SEAL, O-Ring External Indicator (Viton)	2
	1045Z3368	• SEAL, O-Ring External Indicator (EPR)	2

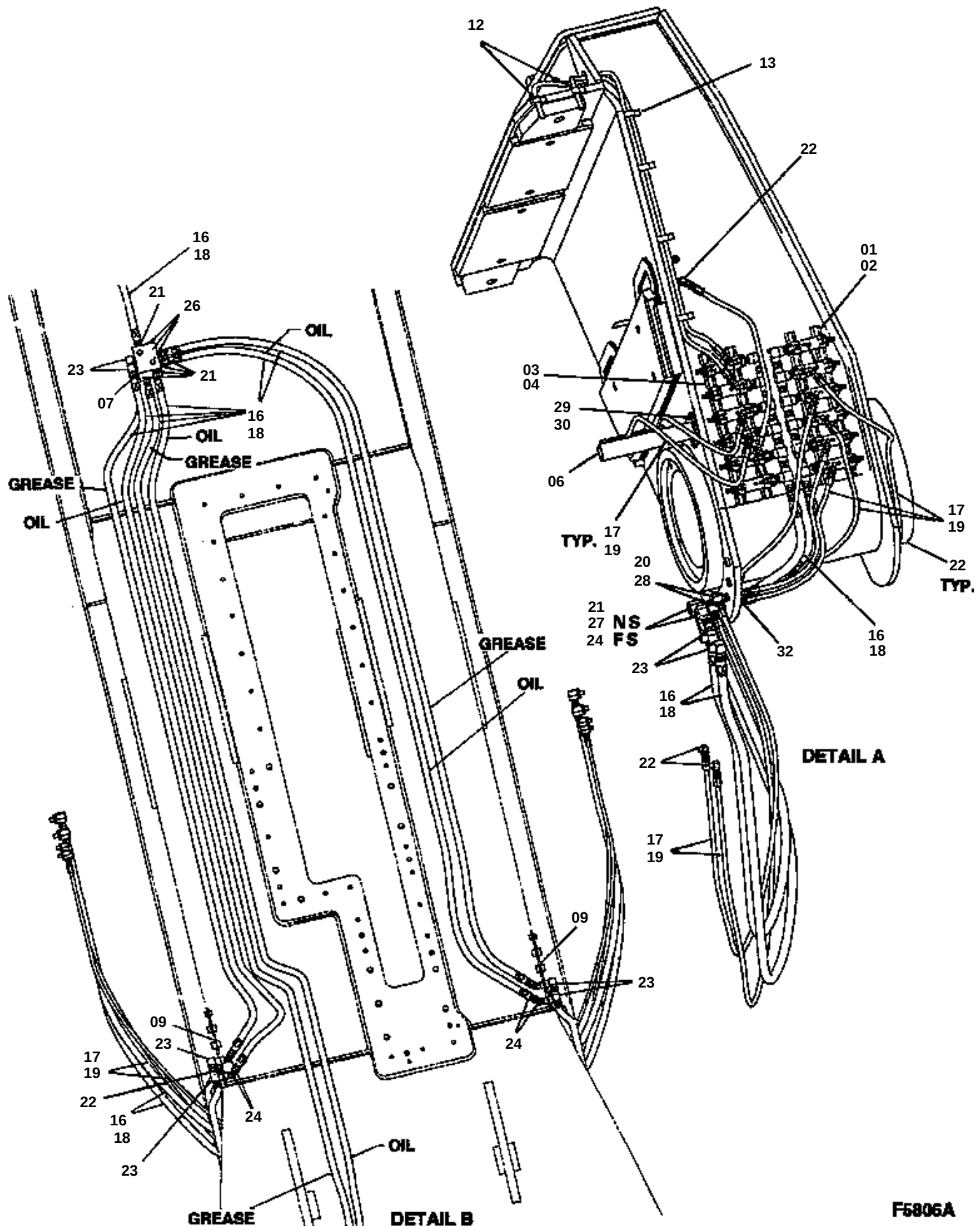


LUBRICATION PIPING, BOOM





LUBRICATION PIPING, BOOM



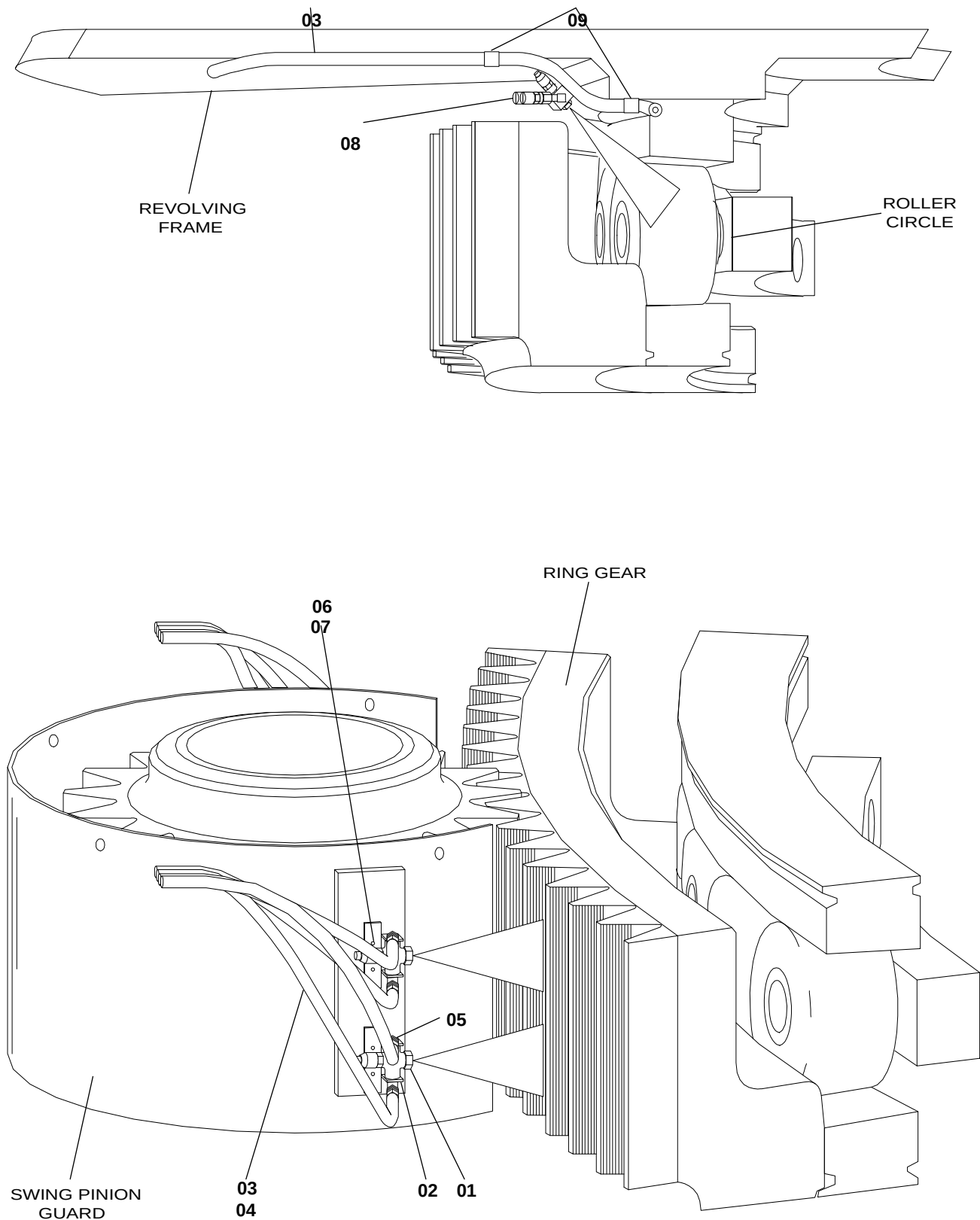
F5806A



LUBRICATION PIPING, BOOM

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R11600F1/F3	LUBRICATION PIPING, BOOM		
01	R4324F8	• VALVE	1	10-16
02	R4324F9	• VALVE	1	10-17
03	R4324F6	• VALVE	1	10-14
04	R4324F7	• VALVE	1	10-15
05	944J238F6	• INJECTOR ASSEMBLY	1	10-9
06	R8657D1	• SUPPORT, Lube	2	
07	R8692D1	• JUNCTION BOX, Lube	1	
08	R8693D1	• JUNCTION BOX, Lube	1	
09	R11643D2	• CONNECTOR, Plate	2	
10	R8708D1	• CONNECTOR, Plate	1	
11	32Z890D5	• STRAP, Hose (Not Shown)	50	
12	32T727D1	• CLAMP, Hose	40	
13	32T727D2	• CLAMP, Hose	20	
14	R4294D1	• CLAMP, Hose (Not Shown)	30	
15	R4294D2	• CLAMP, Hose (Not Shown)	30	
16	44Z1748D260	• HOSE, High Pressure 1 I.D.	1	
17	44Z1339D220	• HOSE, Medium Pressure 13/32 I.D.	1	
18	44Q7D21	• HOSE END, Swivel	34	
19	44Q5D18	• HOSE END, Swivel	70	
20	44Z590D13	• ADAPTER, JIC Male Pipe	5	
21	44Z590D20	• ADAPTER, JIC Male Pipe	6	
22	44Z591D11	• ELBOW, JIC Male Pipe 90 deg.	20	
23	44Z591D19	• ELBOW, JIC Male Pipe 90 deg.	10	
24	44Z898D13	• ADAPTER, JIC Pipe Male 45 deg.	10	
25	44Z958D6	• ADAPTER, JIC Pipe Male	2	
26	44Z1010D6	• PLUG, Pipe 1 NPT	3	
27	R34660D3	• SWIVEL, 1 NPT	4	
28	R34660D1	• SWIVEL, 1/2 NPT	4	
29	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	8	
30	3616V011	• WASHER, Lock 1/2 in	8	
31	44Z12D7	• CLAMP, Hose	2	
32	44Z591D13	• ELBOW, JIC Male Pipe 90 deg.	4	

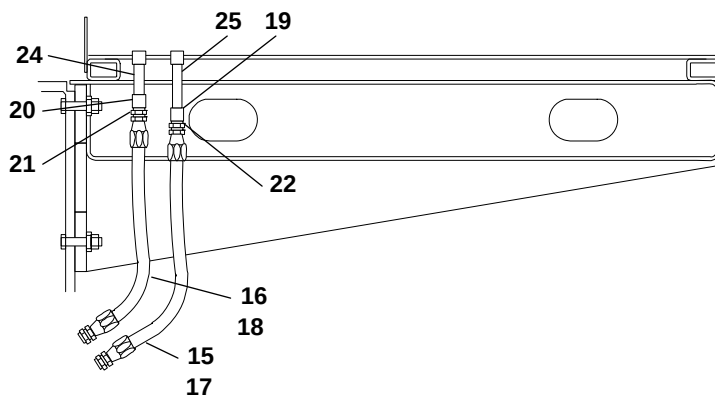
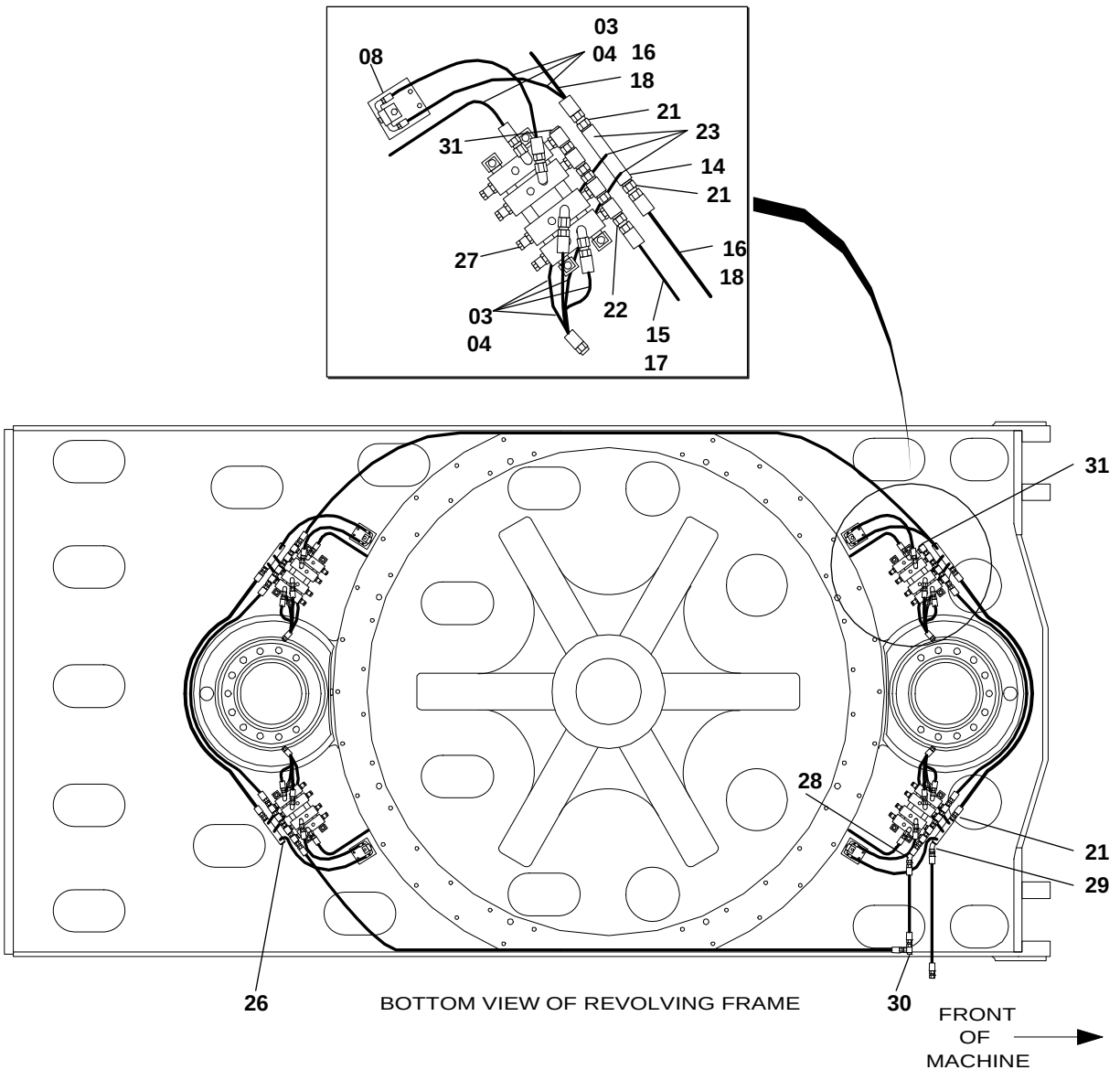
LUBE SYSTEM, RING GEAR



F5172A



LUBE SYSTEM, RING GEAR



SECTION A - A
SIDE PLATFORM DIRECTLY BELOW
LUBE ROOM

F5173A

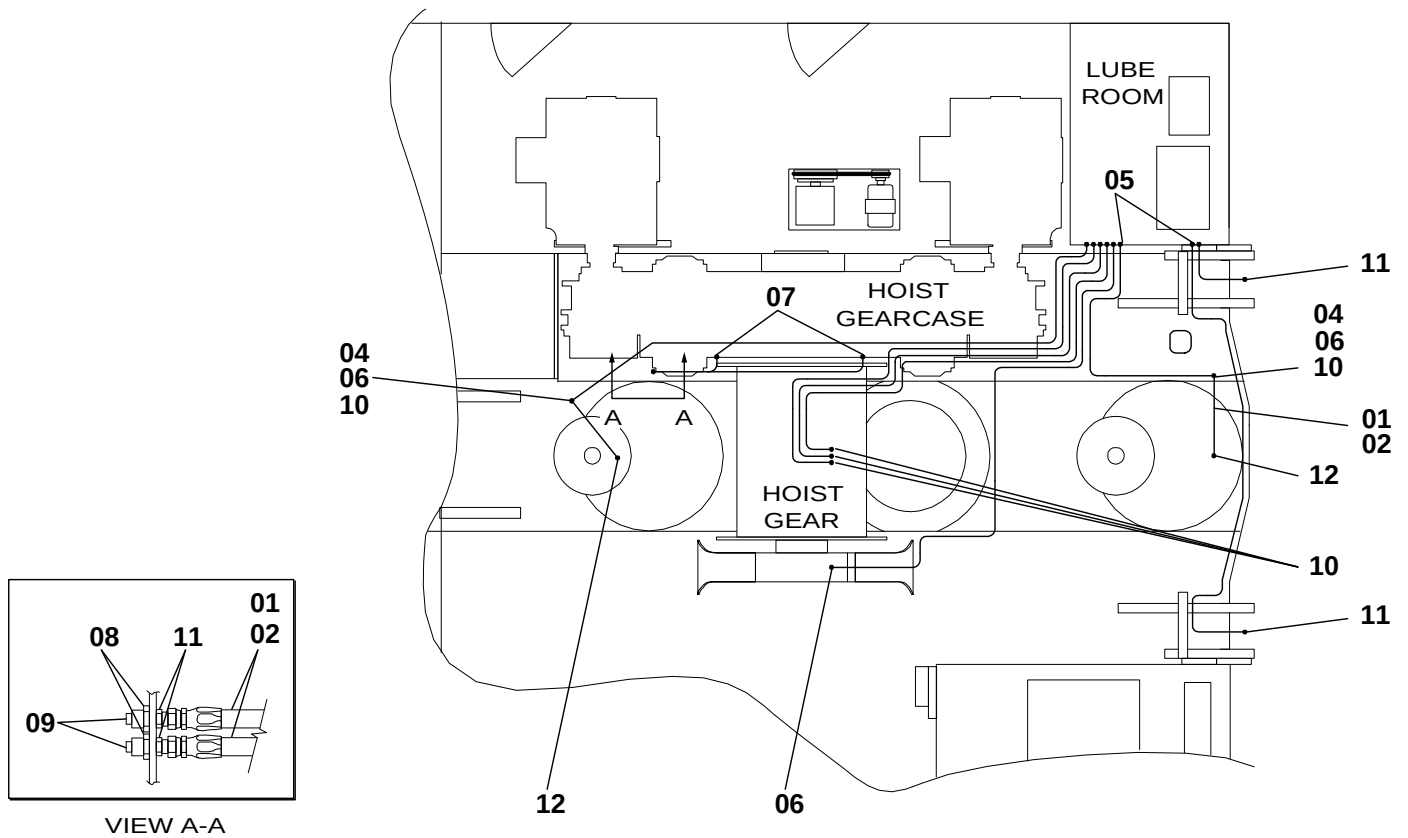


LUBE SYSTEM, RING GEAR

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R7109F1/F3	LUBE SYSTEM, RING GEAR		
01	R5808F3	• NOZZLE, Spray	8	10-18
02	R5872D1	• BRACKET, Spray Valve	8	
03	44Z1339D120	• HOSE, High Pressure 13/32 I.D.	1	
04	44Q5D18	• HOSE END, Swivel 13/32 I.D.	52	
05	44Z591D12	• ELBOW, JIC Male Pipe 90 deg.	16	
06	20Q260D221	• SCREW, Hex Hd Cap 5/16-18UNC x 1/2 in	16	
07	3616V008	• WASHER, Lock 5/16 in	16	
08	R14081F1	• BRACKET, Spray Valve	4	
09	32T727D1	• CLIP, Hose	20	
10	32T724D1	• CLIP, Hose (Not Shown)	35	
11	32T727D2	• CLIP, Hose (Not Shown)	30	
12	R4294D1	• CLIP, Hose (Not Shown)	20	
13		NOT USED		
14	R6331D1	• BLOCK, Air Coupler	4	
15	44Z1748D45	• HOSE, High Pressure 1 I.D.	1	
16	44Z1319D45	• HOSE, Low Pressure 3/4 I.D.	1	
17	44Q7D21	• HOSE END, Swivel 1 I.D.	10	
18	44Q3D17	• HOSE END, Swivel 3/4 I.D.	8	
19	2439V006	• COUPLING, Pipe 1 NPT	1	
20	2439V005	• COUPLING, Pipe 3/4 NPT	1	
21	44Z590D17	• ADAPTER, JIC Male Pipe	8	
22	44Z590D20	• ADAPTER, JIC Male Pipe	6	
23	44Z591D13	• ELBOW, JIC Male Pipe 90 deg.	12	
24	2450V154	• NIPPLE, Pipe 3/4 x 7 in	1	
25	2450V182	• NIPPLE, Pipe 1 x 6-1/2 in	1	
26	44Z1010D5	• PLUG, Pipe 3/4 NPT	1	
27	R4324F5	• VALVE	4	10-13
28	44Z898D13	• ADAPTER, Male Pipe 45 deg.	1	
29	44Z898D12	• ADAPTER, Male Pipe 45 deg.	1	
30	44Z491D10	• ADAPTER, Tee 1 NPT	1	
31	44Z1010D6	• PLUG, Pipe 1 NPT	2	



LUBRICATION PIPING, REVOLVING FRAME



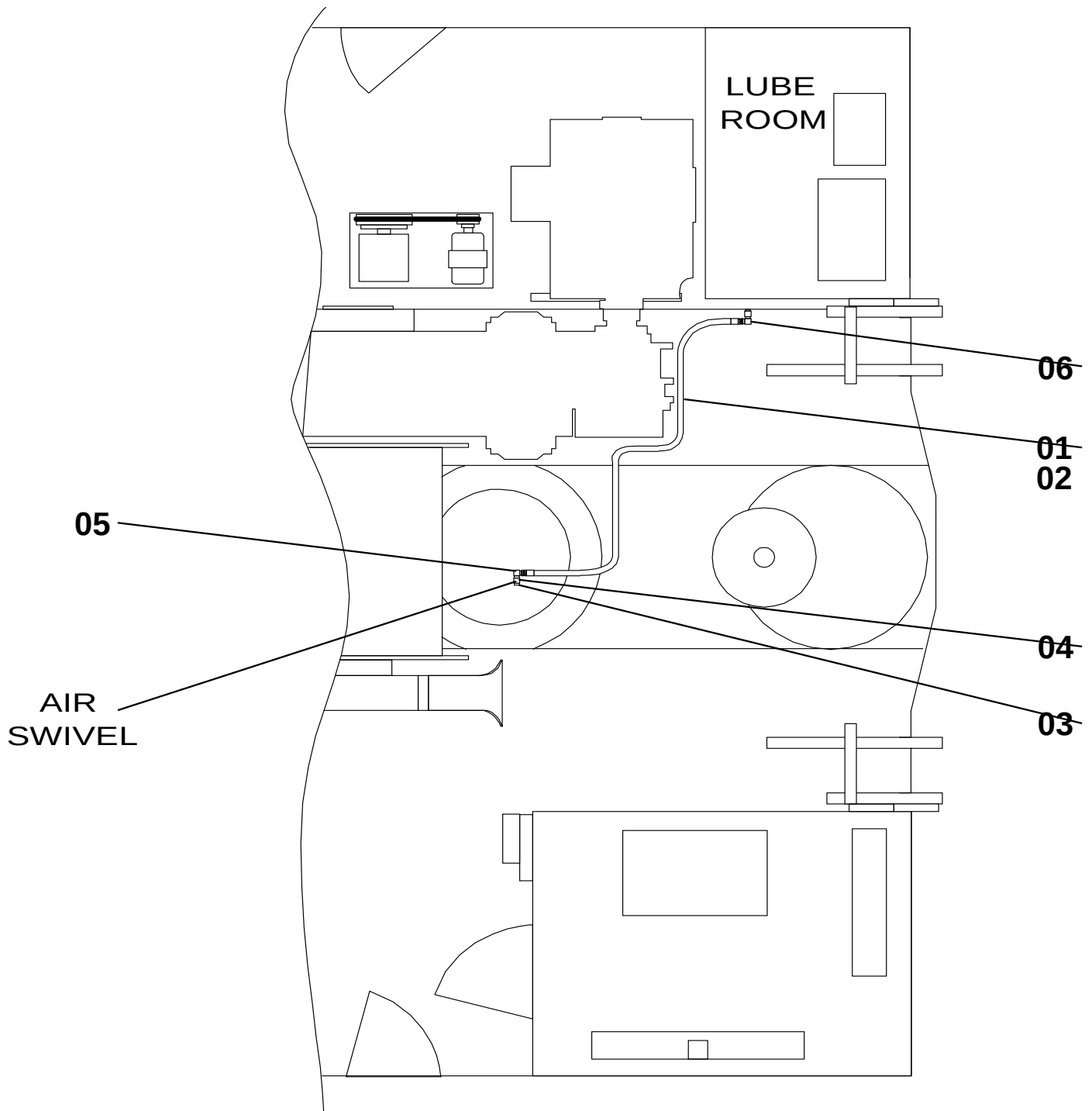
F5815

LUBRICATION PIPING, REVOLVING FRAME

REF	PART NO.	DESCRIPTION	QTY
	R11842F1	LUBRICATION PIPING, REVOLVING FRAME	
01	44Z1339D120	• HOSE, Medium Pressure 13/32 I.D.	1
02	44Q5D18	• HOSE END, Swivel 13/32 I.D.	24
03	32T727D1	• CLIP, Hose (Not Shown)	30
04	2439V003	• COUPLING, 3/8 NPT	2
05	44Z591D13	• ELBOW, JIC Male Pipe 90 deg.	8
06	44Z591D11	• ELBOW, JIC Male Pipe 90 deg.	3
07	44Z591D12	• ELBOW, JIC Male Pipe 90 deg.	2
08	16T9198	• PLATE, Connector	2
09	44Z1D14	• FITTING, Lube 1/4 NPT	2
10	44Z590D11	• ADAPTER, JIC Male Pipe	5
11	44Z590D12	• ADAPTER, JIC Male Pipe	4
12	44Z590D43	• ADAPTER, JIC Male Pipe	2
13	32T727D2	• CLIP, Hose (Not Shown)	10
14	32T727D3	• CLIP, Hose (Not Shown)	20
15	32T727D4	• CLIP, Hose (Not Shown)	10



LUBRICATION PIPING, SWIVEL



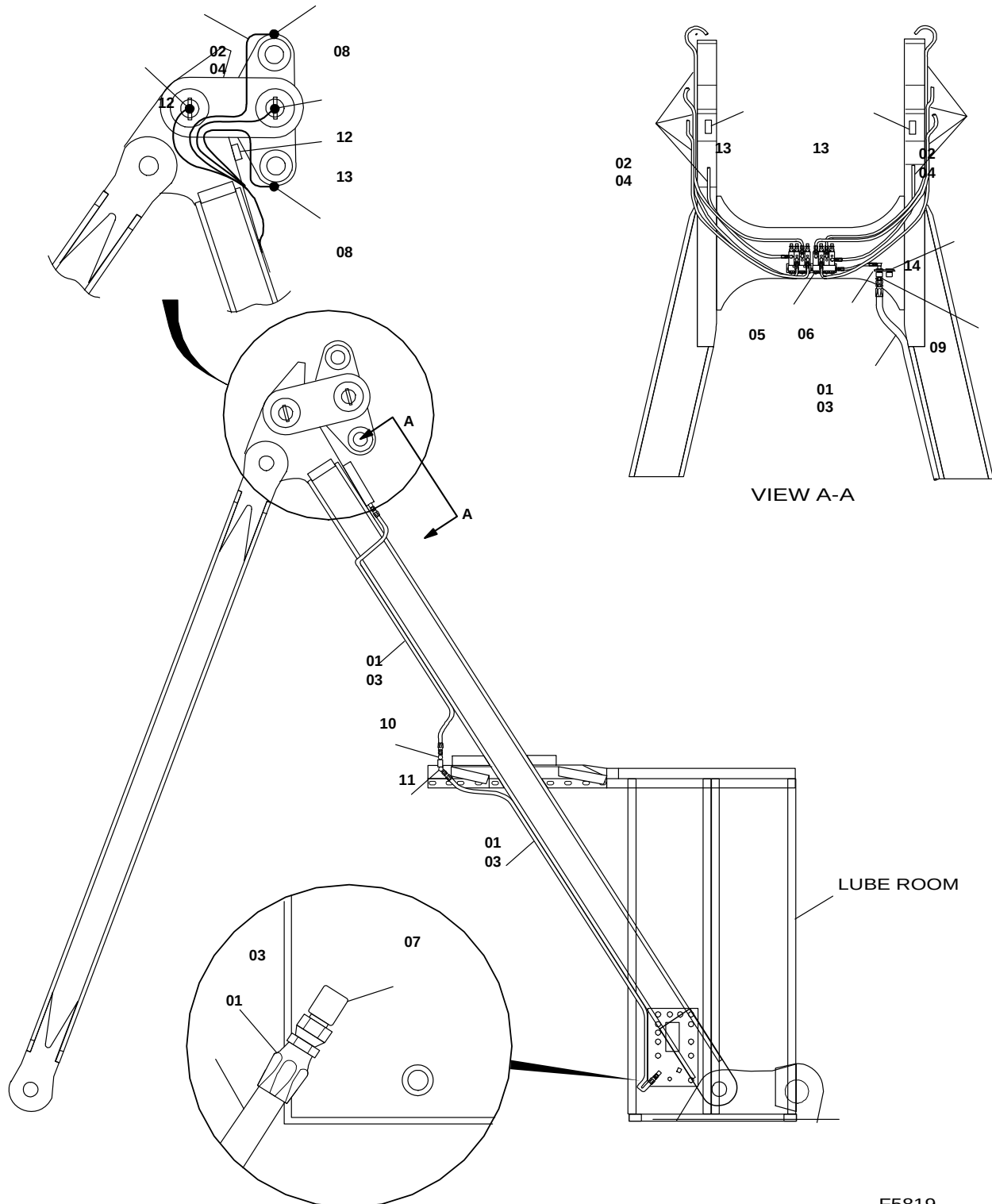
DECK PLAN

F5813

LUBRICATION PIPING, SWIVEL

REF	PART NO.	DESCRIPTION	QTY
	R11852F1	LUBRICATION PIPING, SWIVEL	
01	44Q7D21	• HOSE END, Swivel	2
02	44Z1748D19	• HOSE, High Pressure 1 I.D.	1
03	2450V102	• NIPPLE, Pipe Close 1/2 NPT	1
04	44Z591D25	• ELBOW, JIC Male Pipe 90 deg.	1
05	2410V009	• COUPLING, Reduction	1
06	44Z591D19	• ELBOW, JIC Male Pipe 90 deg.	1
07	R4294D1	• CLAMP, Hose (Not Shown)	15

LUBRICATION, GANTRY



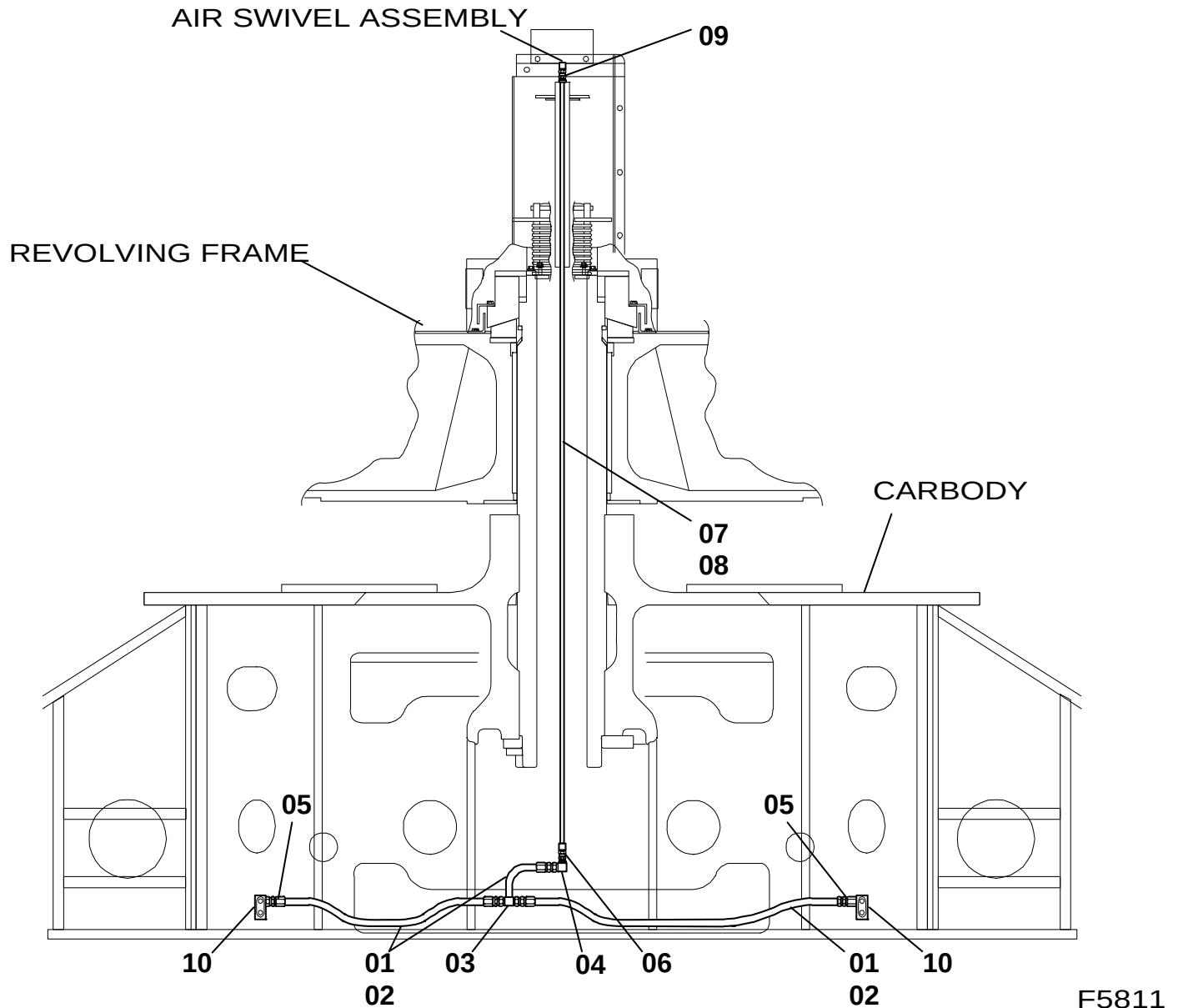
F5819

LUBRICATION, GANTRY

[illegible]



LUBRICATION PIPING, CARBODY



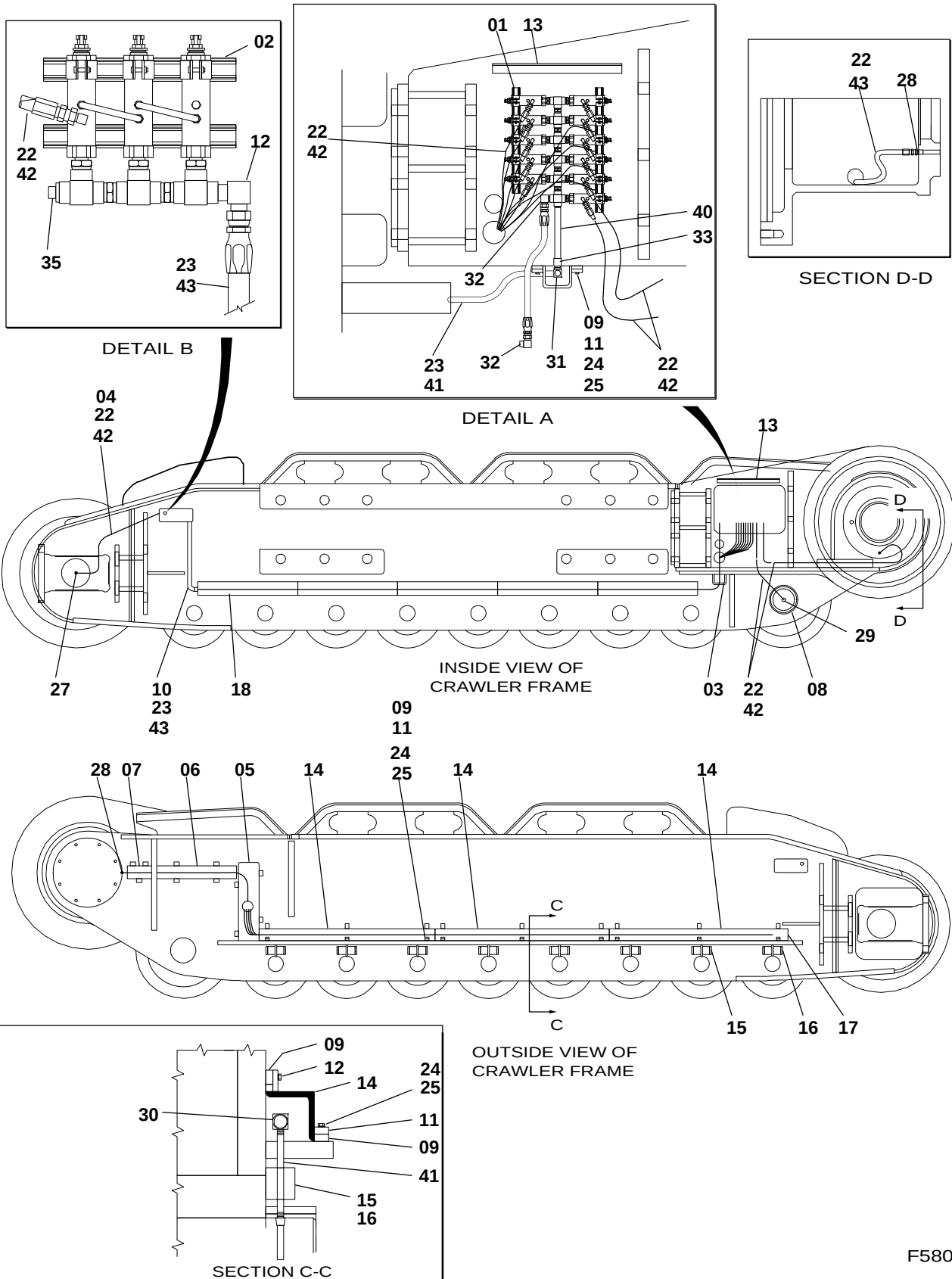


Machine
Serial Number: **4184**

[illegible]



LUBE SYSTEM MATERIAL, CRAWLER FRAME



F5809



LUBE SYSTEM MATERIAL, CRAWLER FRAME

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R4924F1/F3	LUBE SYSTEM MATERIAL, CRAWLER FRAME		
01	R4324F2	• VALVE	2	10-11
02	R4324F3	• VALVE	2	10-12
03	R5058D1	• GUARD, Frame	2	
04	44Z1014D5	• GUARD, Hose	6	
05	R4889D1	• GUARD, Lube	2	
06	14N2802D4	• GUARD	2	
07	14P3483D1	• GUARD	2	
08	18T17737D1	• TUBE, Lube Line Guard	2	
09	16T3438	• GUARD, Support	66	
10	44Z1014D11	• GUARD, Hose	4	
11	16T3826	• LUG, Support	48	
12	718N228D67	• LUG, Support	18	
13	018031253	• ANGLE	AR	
14	018031242	• ANGLE	AR	
15	018031218	• ANGLE	AR	
16	018031218	• ANGLE	AR	
17	018020105	• PLATE	AR	
18	018039507	• CHANNEL	AR	
19	R4294D1	• CLAMP, Hose (Not Shown)	16	
20	R4294D2	• CLAMP, Hose (Not Shown)	16	
21	32T727D1	• CLAMP, Hose (Not Shown)	28	
22	443765094	• HOSE, Medium Pressure 13/32 in I.D. x 420 ft	AR	
23	442765106	• HOSE, High Pressure 1 in I.D. x 80 ft	AR	
24	20Q260D401	• SCREW, Hex Hd Cap 5/8-11UNC x 1-1/4 in	66	
25	3616V013	• WASHER, Lock 5/8 in	66	
26		NOT USED		
27	44Z1302D23	• ADAPTER, Ex-Long Pipe 90 deg.	4	
28	44Z590D11	• ADAPTER, JIC Male Pipe	4	
29	44Z574D6	• ELBOW, JIC Male Pipe 90 deg.	2	
30	44Z574D7	• ADAPTER, JIC Female Pipe 90 deg. 3/8 NPT	16	
31	44Z574D9	• ADAPTER, JIC Female Pipe 90 deg. 1 NPT	2	
32	44Z591D19	• ELBOW, JIC Male Pipe 90 deg.	4	
33	2409V006	• COUPLING	2	
34		NOT USED		
35	44Z1010D6	• PLUG, Pipe	2	
36		NOT USED		



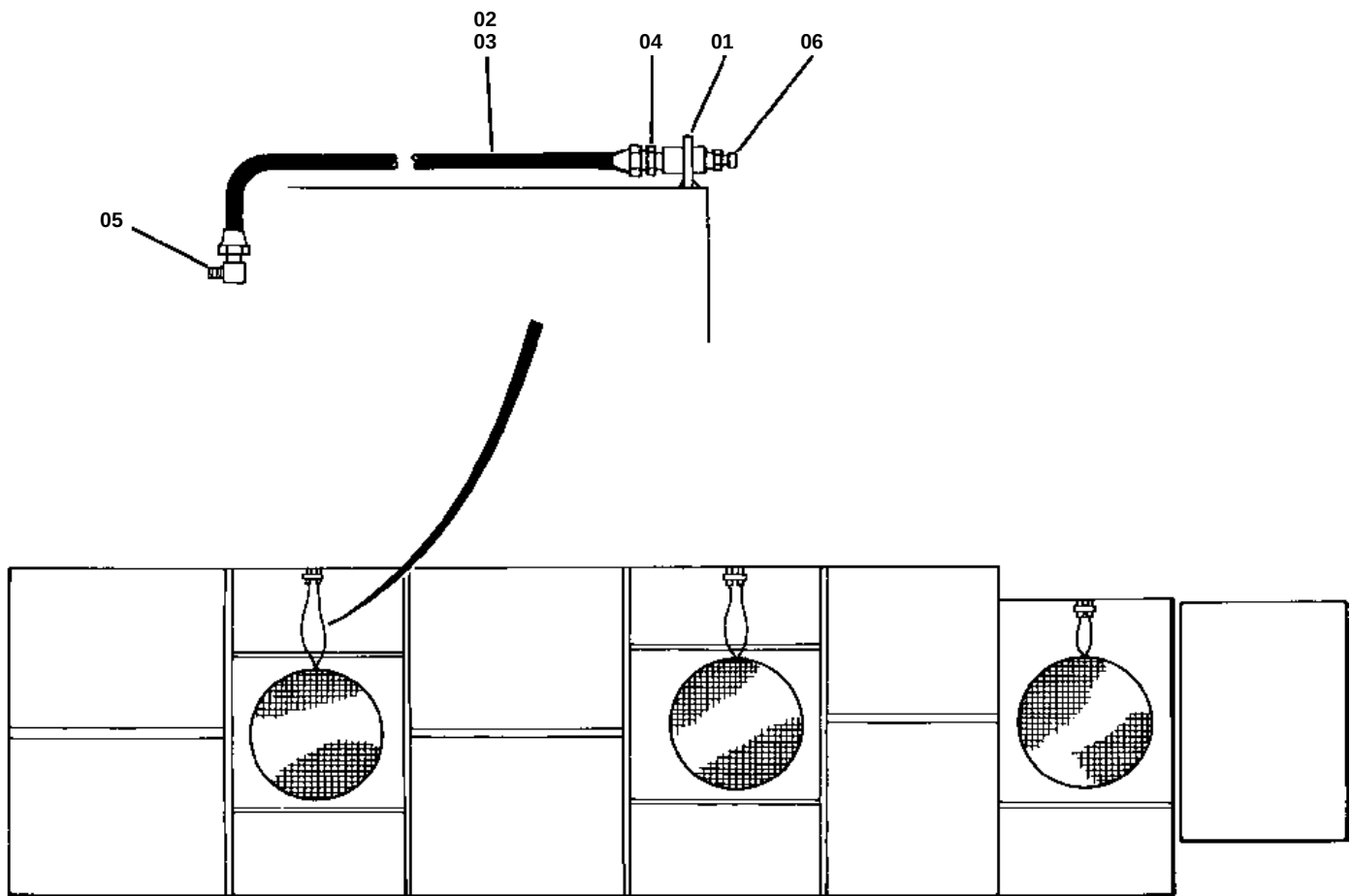
Machine
Serial Number: **4184**

LUBE SYSTEM MATERIAL, CRAWLER FRAME

REF	PART NO.	DESCRIPTION	QTY	PAGE
37		NOT USED		
38		NOT USED		
39		NOT USED		
40	2420V184	• NIPPLE, Pipe 1 NPT x 7 in	2	
41	2420V097	• NIPPLE, Pipe 3/8 NPT x 10 in	16	
42	44Q5D18	• HOSE END, JIC Swivel	48	
43	44Q7D21	• HOSE END, JIC Swivel	8	



LUBRICATION PIPING, CABINET BLOWER



F2625

LUBRICATION PIPING, CABINET BLOWER

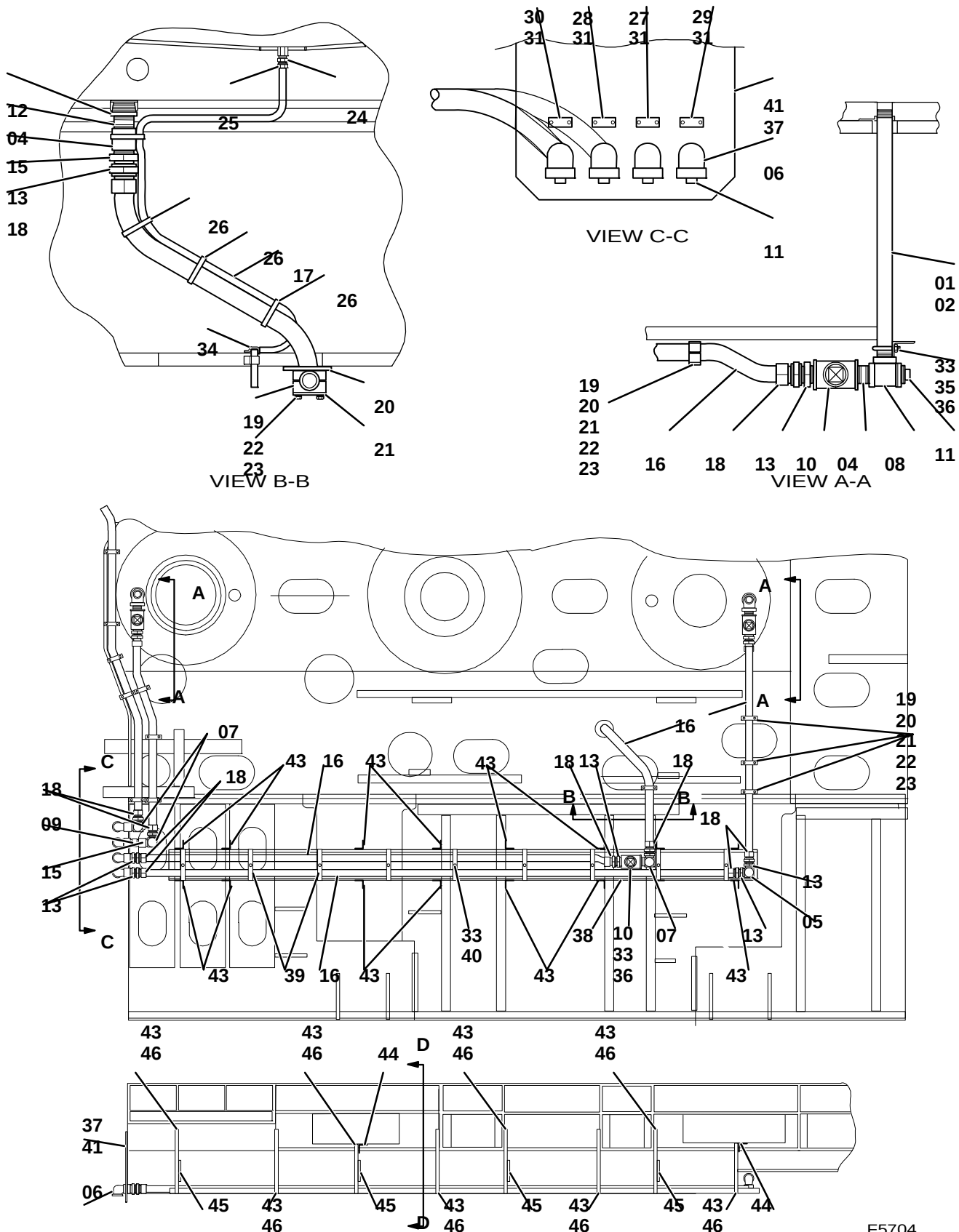
REF	PART NO.	DESCRIPTION	QTY
	944P24F1	LUBRICATION PIPING, CABINET BLOWER	
01	18T7893	• PLATE, Connector	3
02	44Z1343D28	• HOSE, Medium Pressure 1/4 in	AR
03	44Q5D7	• HOSE END, JIC Swivel	12
04	44Z590D6	• ADAPTER, JIC Male Pipe 1/4 in	6
05	44Z591D5	• ADAPTER, JIC Male Pipe 1/8 in x 90 deg	6
06	44Z1D14	• FITTING, Grease 1/4 in	6
	32T721D5	• CLAMP, Hose 1/4 in (Not shown)	AR

(NOTE: The following items, not shown, might be required for blowers with different connections)

--	44Z574D3	• ADAPTER, Female Pipe, 5/16 in x 90 deg	6
	44Z378D1	• UNION, Male Pipe 1/8 in	6
	2409V001	• COUPLING, Pipe 1/8 in	6



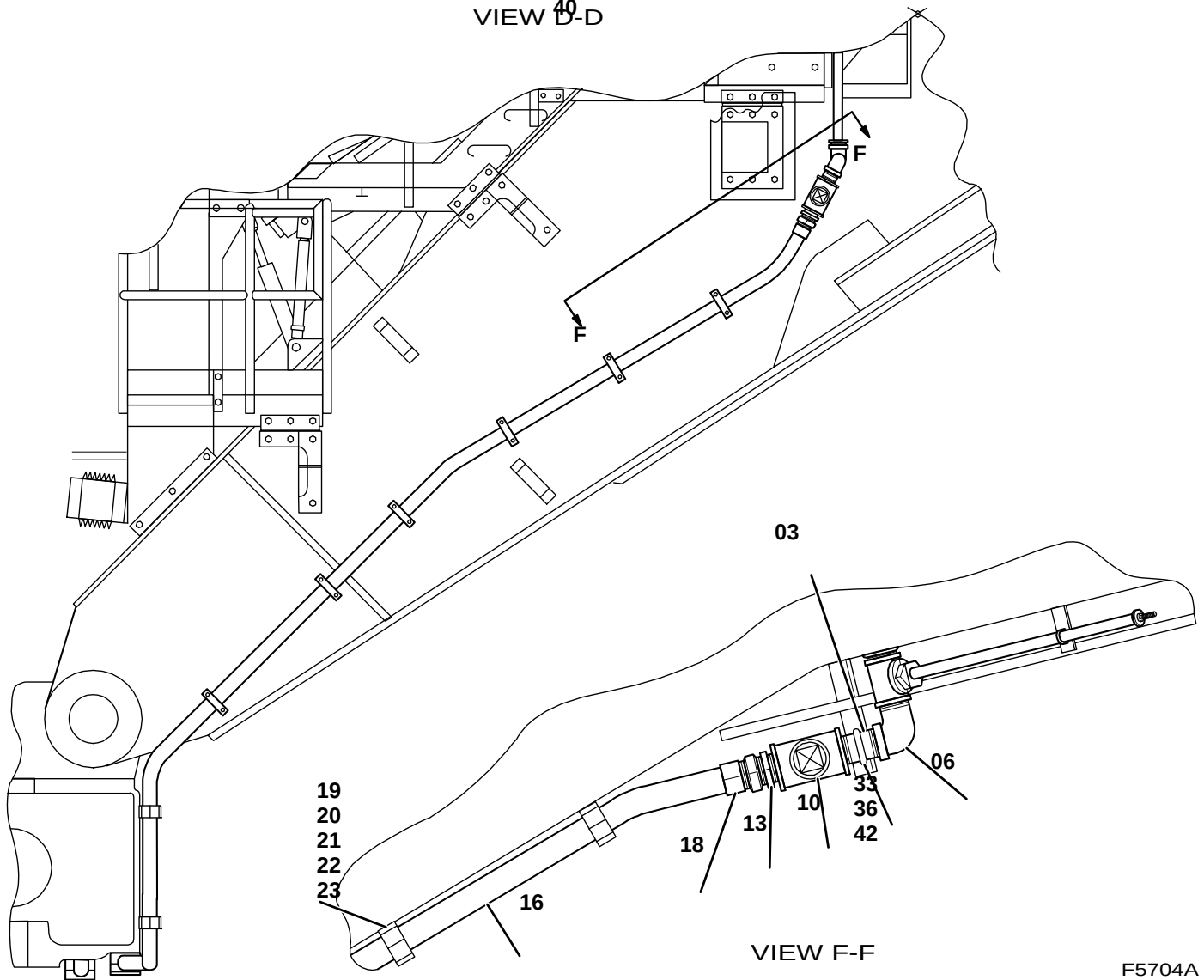
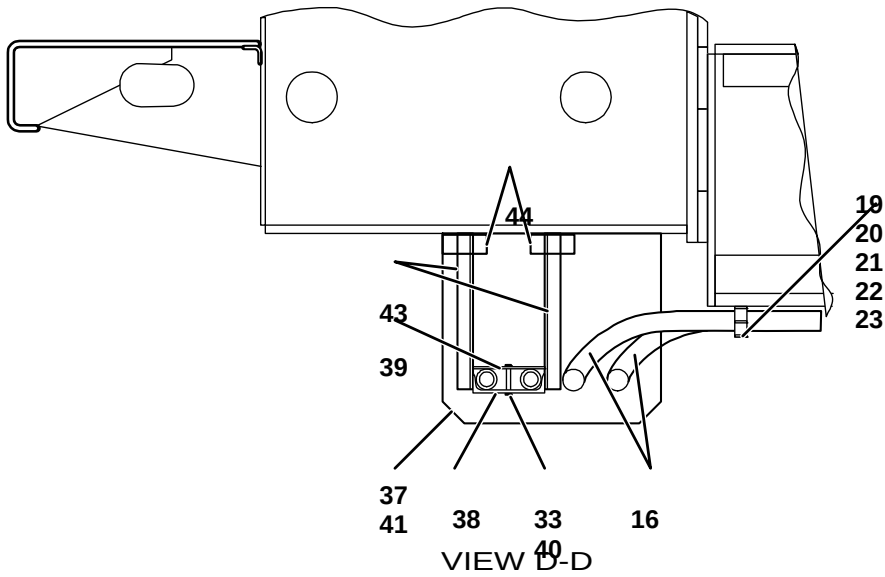
DRAIN, TRANSMISSIONS



F5704



DRAIN, TRANSMISSIONS



F5704A



DRAIN, TRANSMISSIONS

REF	PART NO.	DESCRIPTION	QTY
	100J6868F1	DRAIN, TRANSMISSIONS	
01	18P3238D25	• PIPE, Standard 2-2/2 x 50 in lg	2
02		NOT USED	
03	2420V298	• PIPE, Standard 2-1/2 x 5-3/4 in	1
04	2420V287	• PIPE, Standard 2-1/2 x 3 in	3
05	2415V025	• ELBOW, 2-1/2 x 90 deg	1
06	2417V025	• ELBOW, Street 2-1/2 x 90 deg	5
07	44Z591D30	• ELBOW, JIC Male Pipe 90 deg	3
08	2426V010	• TEE, Pipe 2-1/2 in	2
09	2420V293	• PIPE, Standard 2-1/2 x 4-1/2 in	1
10	36Z41D7	• COCK, Pipe 2-1/2 in	4
11	2420V010	• PLUG, Solid Square Head Pipe 2-1/2 in	6
12	2402V514	• ADAPTER, Male Pipe/Female Pipe 3 x 2-1/2 in	1
13	44Z590D34	• ADAPTER, JIC Male Pipe	9
14		NOT USED	
15	2409V010	• COUPLING, Pipe 2-1/2 x 3 in	2
16	44Z2371D109	• HOSE, 2-3/8 x 109 ft lg	1
17	44Z1317D12	• HOSE, 1/2 in	1
18	44Q5D47	• HOSE END, JIC Swivel	12
19	44Z2570D28	• BODY, Clamp Hose 2-1/2 in	22
20	44Z2566D4	• PLATE, Single Clamp	22
21	44Z2564D4	• PLATE, Single Clamp	22
22	20Q260D309	• SCREW, Hex Hd Cap 7/16-14UNC x 4-1/4 in	44
23	3616V010	• WASHER, Lock 7/16 in	44
24	44Z590D13	• ADAPTER, JIC Male Pipe	1
25	44Q3D12	• HOSE END	1
26	32Z890D123	• TIE, Wire	4
27	R31282D1	• NAMEPLATE, Hoist	1
28	R31282D2	• NAMEPLATE, Swing, Front	1
29	R31282D3	• NAMEPLATE, Swing, Rear	1
30	R31282D4	• NAMEPLATE, Crowd	1
31	20Z40D3	• SCREW, Self Tapping #4 x 1/4 in	8
32		NOT USED	
33	3616V009	• WASHER, Lock 3/8 in	19
34	32T727D1	• CLAMP	2
35	16N3348D28	• ANGLE, Mounting	2
36	20Q3D7	• U-BOLT, 2-1/2 in	5



Machine
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DRAIN, TRANSMISSIONS

REF	PART NO.	DESCRIPTION	QTY
37	18N2539D2	• PLATE, Mounting	1
38	87N461D1	• TROUGH, Collector	1
39	14T2040D1	• PLATE, Cover	9
40	20Q260D272	• SCREW, Hex Hd Cap 3/8-16UNC x 4-1/4 in	9
41		NOT USED	
42	16P7115D1	• BRACKET, Mounting	1
43	P&H Spec 180	• ANGLE, 1/4 x 2 x 2 x 410 in	AR
44	P&H Spec 180	• ANGLE, 1/4 x 3 x 3 x 6 in	AR
45	P&H Spec 180	• PLATE, 1/4 x 10 x 12 in	AR
46		NOT USED	

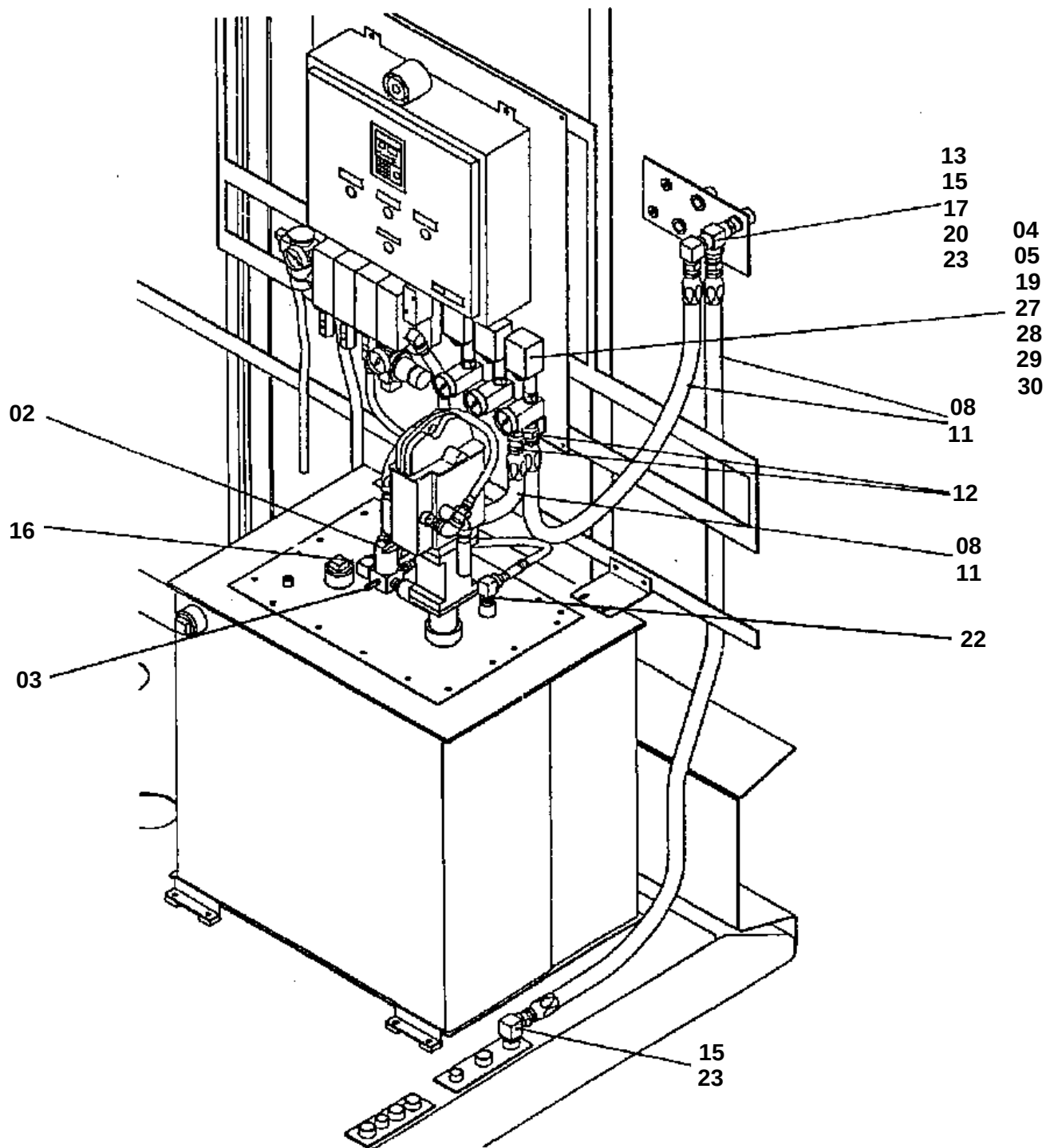


Group 10 - Lubrication Room

Description	Page
LUBE ROOM PIPING	10-1
PIPING, LUBE---TANK DRAIN & FILL	10-2
LUBE ROOM - TANKS, PUMP AND PANEL	10-3
GREASE TANK, 138 GALLON	10-8



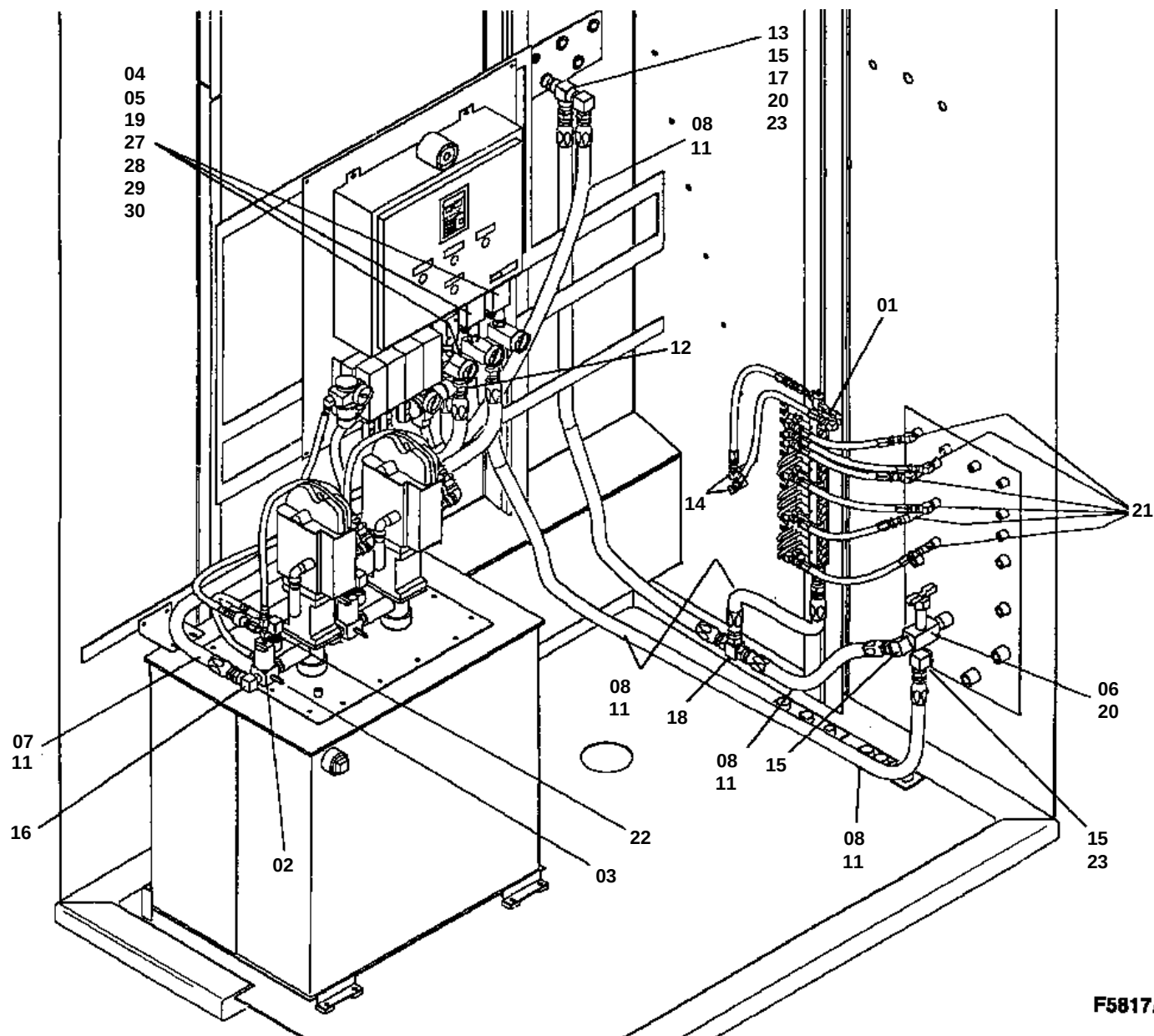
LUBE ROOM PIPING---OPEN GEAR & GREASE



F5817



LUBE ROOM PIPING---OPEN GEAR & GREASE



F5817A

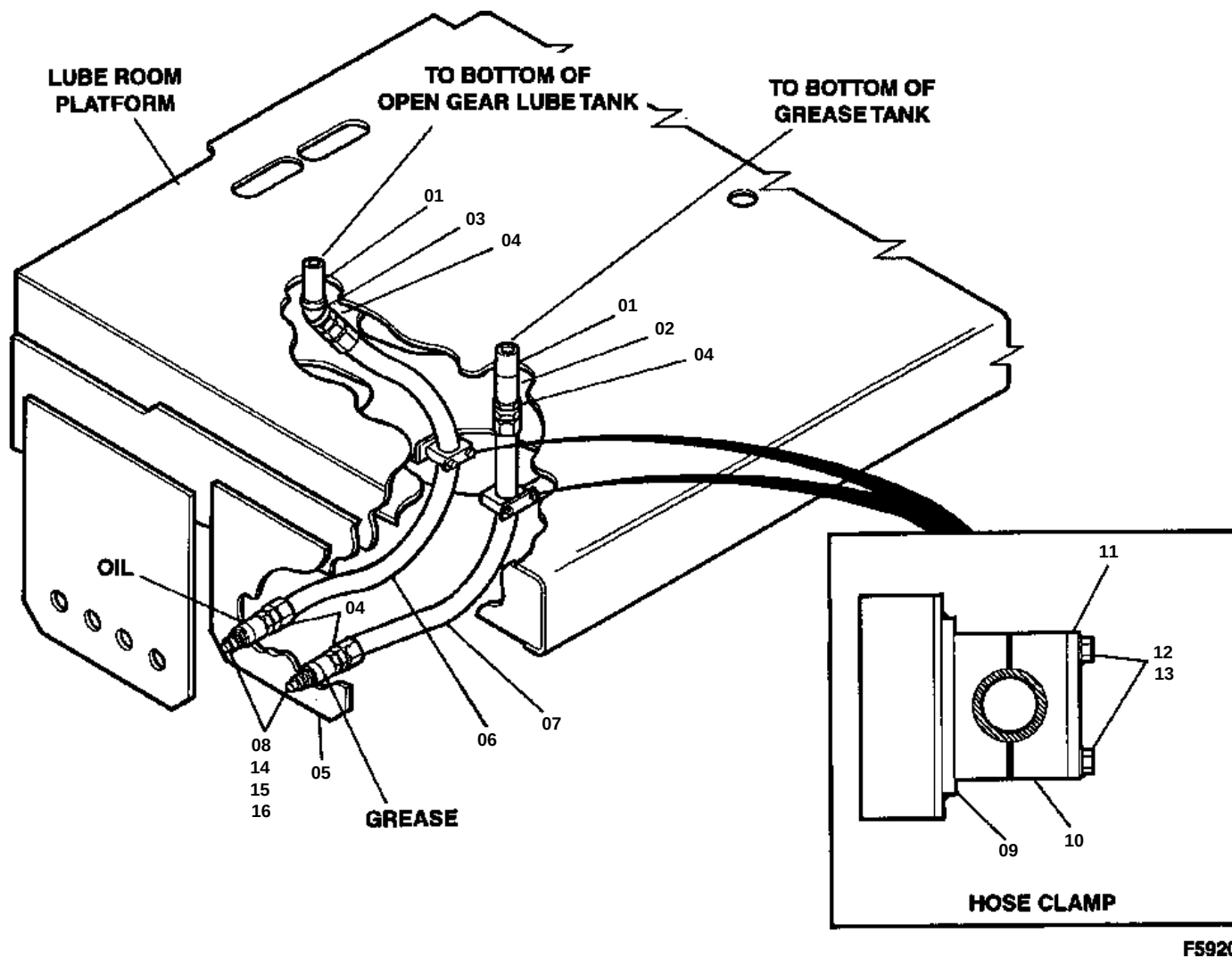


LUBE ROOM PIPING---OPEN GEAR & GREASE

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R12439F1	LUBE ROOM PIPING---OPEN GEAR & GREASE		
01	944J238F7	• INJECTOR ASSEMBLY	1	10-10
02	36Z879D7	• VENT AND VALVE ASSEMBLY	3	10-19
03	36Z879D68	• VALVE, Relief	3	
04	79Z4843	• SWITCH, Pressure	3	
05	89Z839D3	• GAUGE, Pressure	3	
06	R4866D1	• VALVE, Shut Off	1	
07	444165106	• HOSE, High Pressure 1 I.D.	AR	
08	442765106	• HOSE, High Pressure 1 I.D.	AR	
09	443765094	• HOSE, Medium Pressure 13/32 I.D.	AR	
10	44Q5D18	• HOSE END, JIC Swivel 1/2 in	16	
11	44Q7D21	• HOSE END, JIC Swivel 1 in	20	
12	44Z590D19	• ADAPTER, JIC Male Pipe	7	
13	44Z590D20	• ADAPTER, JIC Male Pipe	2	
14	44Z591D13	• ELBOW, JIC Male Pipe 90 deg.	2	
15	44Z591D19	• ELBOW, JIC Male Pipe 90 deg.	3	
16	44Z591D25	• ELBOW, JIC Male Pipe 90 deg.	3	
17	44Z342D6	• TEE, Pipe 1 NPT	2	
18	44Z491D10	• TEE, JIC/Union	1	
19	44Z558D2	• NIPPLE, Hex 1/4 NPT	3	
20	44Z558D6	• NIPPLE, Hex 1 NPT	1	
21	44Z898D11	• ADAPTER, JIC Male Pipe 45 deg.	6	
22	44Z943D8	• ADAPTER, JIC Male Pipe	3	
23	44Z992D11	• PLUG, Caplug 1 in	5	
24	44Z992D7	• PLUG, Caplug 1/2 in	6	
25	2411V008	• REDUCER, Coupling 3/8 NPT x 3/4 NPT	1	
26	2450V069	• NIPPLE, Close 3/8 in	1	
27	85Z24D1	• GRIP, Cord	6	
28	201280151	• CABLE	AR	
29	20Q260D192	• SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	6	
30	3616V007	• WASHER, Lock 1/4 in	6	



PIPING, LUBE---TANK DRAIN & FILL



F5920

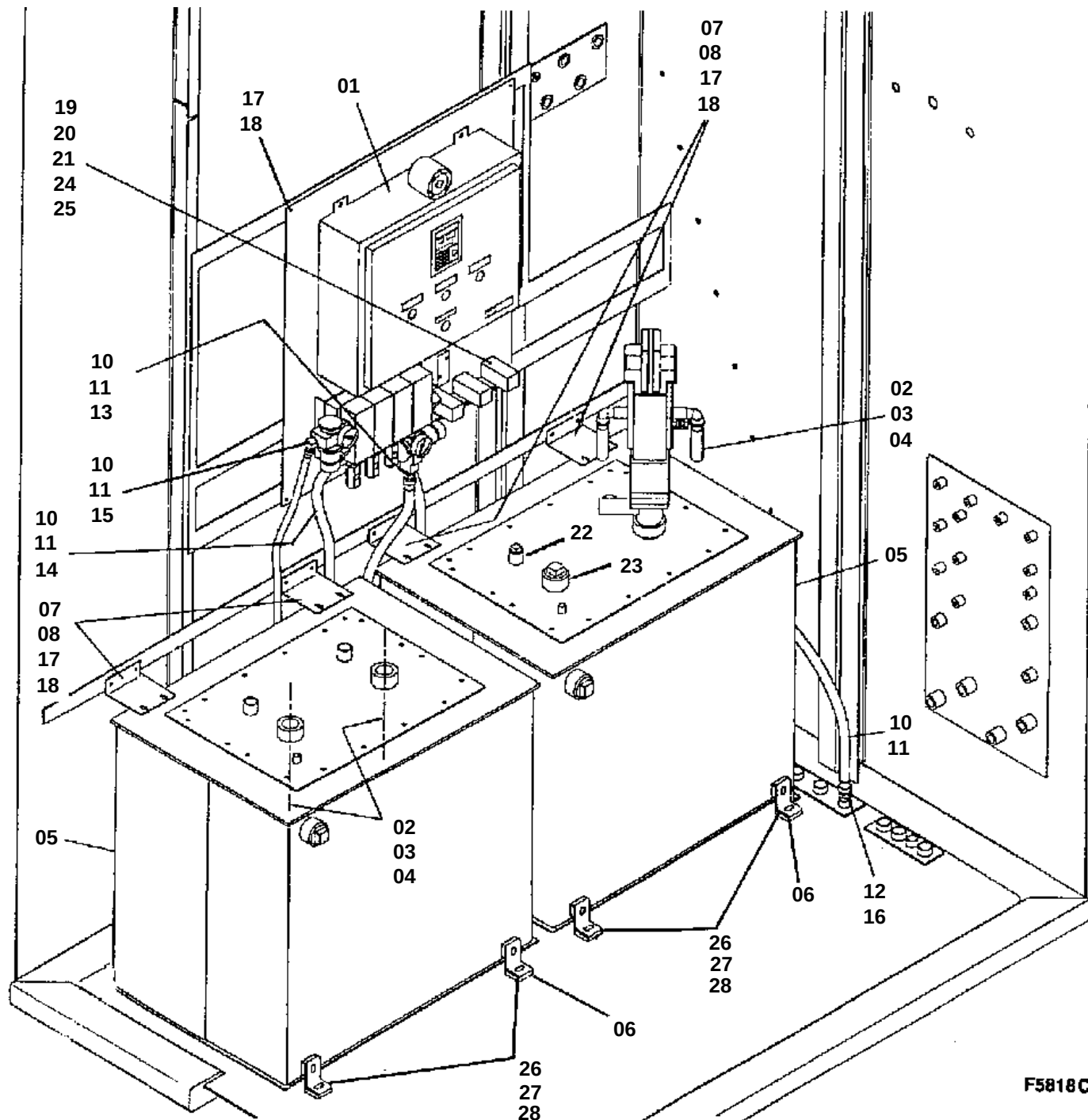


Machine Serial Number: **4184**

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LUBE ROOM, TANKS, PUMPS AND PANEL

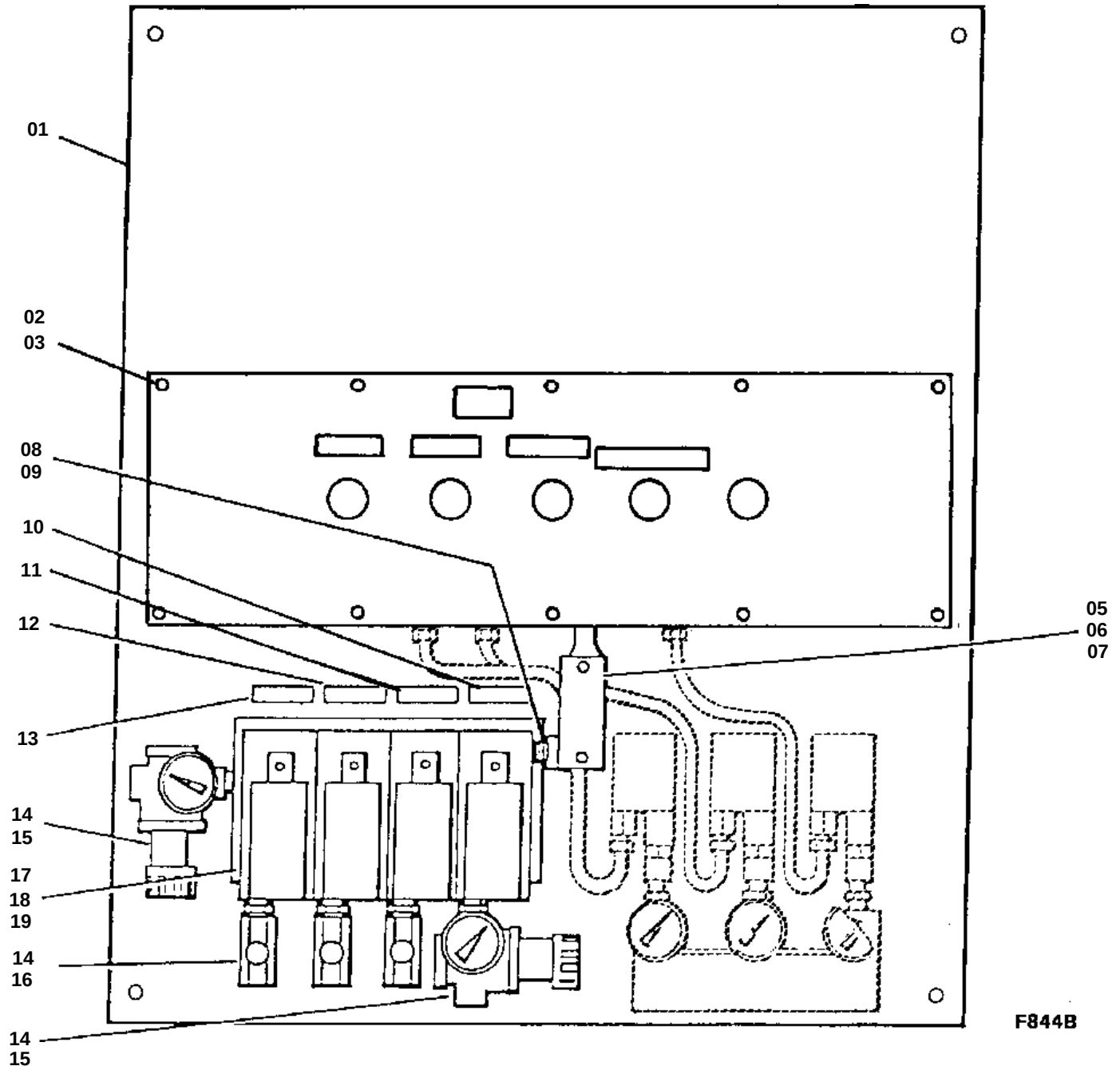


LUBE ROOM, TANKS, PUMPS AND PANEL

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R14000F3	LUBE ROOM &TANKS, PUMPS AND PANEL		
01	100A14733F5	• CONTROL PANEL, Auto Lube (Not as Shown)	1	10-4
02	37Z216D15	• PUMP, Lubrication	3	10-6
03		NOT USED		
04	37Z216D10	• ADAPTER, Bung	3	
05	927N92F2	• GREASE TANK	2	10-8
06		NOT USED		
07	18T9065	• PAD, Mounting	4	
08	16T9423D1	• BRACKET, Tank Mounting	4	
09		NOT USED		
10	443465102	• HOSE, Low Pressure 3/4 I.D. x 25 ft	AR	
11	44Q3D17	• HOSE END, JIC/Swivel	6	
12	44Z590D17	• ADAPTER, JIC Male Pipe	1	
13	44Z590D18	• ADAPTER, JIC Male Pipe	1	
14	44Z591D17	• ELBOW, JIC Male Pipe 90 deg.	2	
15	44Z591D18	• ELBOW, JIC Male Pipe 90 deg	1	
16	44Z992D8	• PLUG, Caplug 3/4 NPT	1	
17	20Q260D255	• SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	12	
18	3616V009	• WASHER, Lock 3/8 in	12	
19	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in	3	
20	3616V007	• WASHER, Lock 1/4 in	3	
21	20Q270D16	• NUT, Hex 1/4-20UNC	3	
22		NOT USED		
23		NOT USED		
24	R13954D1	• BRACKET	1	
25	16N3442	• MANIFOLD	3	
26	R21989D1	• ANGLE, Mounting	4	
27	20Q260D323	• SCREW, Hex Hd Cap 1/2-13UNC x 3/4 in	4	
28	3616V011	• WASHER, Lock 1/2 in	4	



CONTROL PANEL, AUTO LUBE

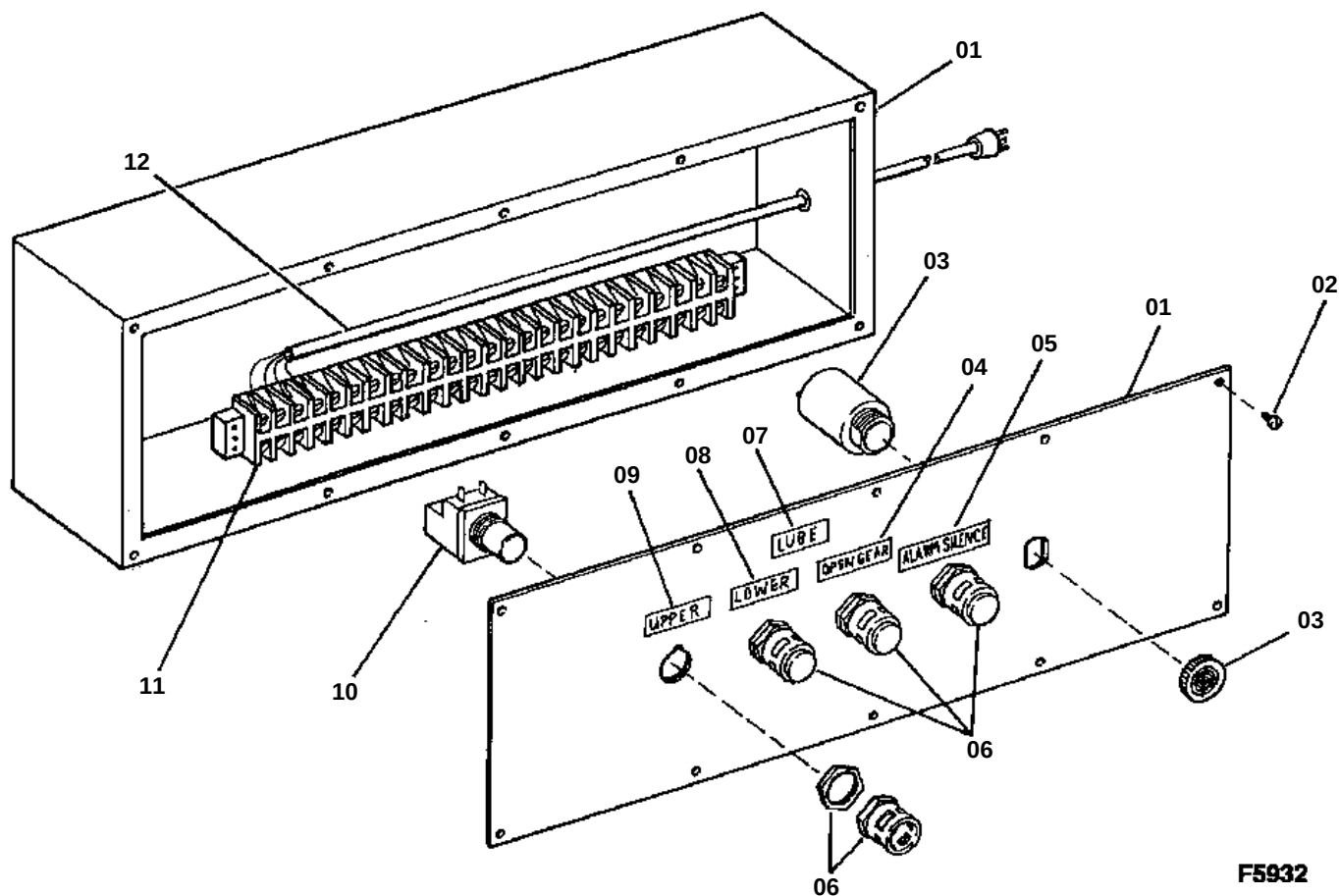


CONTROL PANEL, AUTO LUBE

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100A14733F5	CONTROL PANEL, AUTO LUBE		
01	R13953D1	• PANEL, Mounting	1	
02	R16499F1	• PANEL, Pushbutton	1	10-5
03	20Z2054D32	• SCREW, Self Tap 1/4 x 7/16 in	4	
04		NOT USED		
05	87Z98D3	• COVER, Unilet	2	
06	87Z126D2	• UNILET, 3/4 in	1	
07	0949V005	• BUSHING, Insulating	1	
08	0947V018	• NIPPLE, Close	1	
09	0951V006	• BUSHING, Reducing 1-1/4 to 3/4 in	1	
10	32F786D10	• NAMEPLATE, Spray	1	
11	32F786D8	• NAMEPLATE,	1	
12	32F786D7	• NAMEPLATE,	1	
13	32F786D6	• NAMEPLATE,	1	
14	44Z558D4	• NIPPLE, Hex 1/2 in	5	
15	36Z1604D2	• REGULATOR, Air Pressure	2	8-23
16	36Z959	• VALVE, Flow Control	3	
17	36Q346D3	• VALVE, Solenoid - Air	1	8-13
18	20Q260D201	• SCREW, Hex Hd Cap 1/4-20UNC x 2-1/2 in	4	
19	3616V007	• WASHER, Lock 1/4 in	4	



PUSHBUTTON STATION, LUBRICATION



F5932



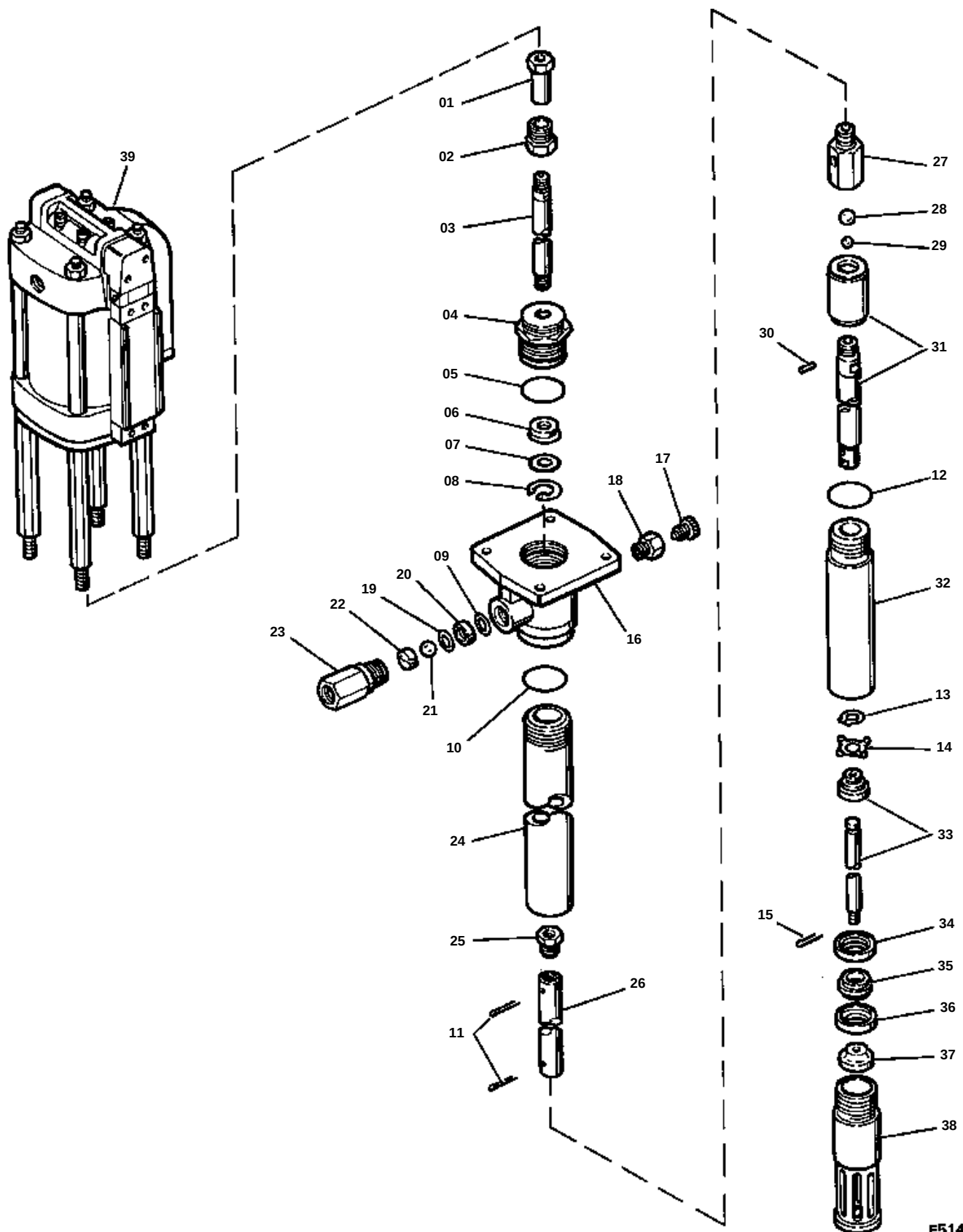
Machine Serial Number: **4184**

PUSHBUTTON STATION, LUBRICATION

REF	PART NO.	DESCRIPTION	QTY
	R16499F1	PUSHBUTTON STATION, LUBRICATION	
01	14A3174F1	· BOX W/COVER	1
02	20Z2054D24	· · SCREW, Self Tapping 1/4-28UNF x 3/8 in	10
03	47Z87D3	· ALARM, Audible	1
04	32F786D8	· NAMEPLATE, "Open Gear"	1
05	32F786D4	· NAMEPLATE, "Alarm Silence"	1
06	479Z10D46	· PUSHBUTTON, Red w/guard	4
07	32F786D5	· NAMEPLATE, "Lube"	1
08	32F786D7	· NAMEPLATE, "Lower"	1
09	32F786D6	· NAMEPLATE, "Upper"	1
10	479Z42D3	· BLOCK, Contact	4
11	79Z684D36	· BLOCK Terminal	1
12	79A2449D7	· CABLE	1



PUMP, LUBRICATION



F5144



PUMP, LUBRICATION

REF	PART NO.	DESCRIPTION	QTY	PAGE
	37Z216D15	PUMP, LUBRICATION		
	1037Z559	· PUMP TUBE	1	
01	1020Z12797	· · BOLT, Connector	1	
02	1020Z12798	· · NUT, Coupling	1	
03	1018Z12440	· · PLUNGER, Rod	1	
04	1020Z12799	· · NUT, Gland	1	
	1045Z3654	· · KIT, Pump repair	1	
05		· · · O-RING	1	
06		· · · U-CUP	1	
07		· · · WASHER, PACKING	1	
08		· · · RING, Retaining	1	
09		· · · GASKET	2	
10		· · · O-RING	1	
11		· · · PIN, Cotter	2	
12		· · · O-RING	1	
13		· · · RING, Retaining	1	
14		· · · WASHER, Guide	1	
15		· · · PIN, Cotter	1	
16	1014Z4296	· · BODY, Outlet	1	
17	1020Z12800	· · PLUG, Priming	1	
18	1044Z1554	· · ADAPTER	1	
19		NOT USED		
20	1036Z2138	· · CHECK, Outlet	1	
21	1025Z4214	· · BALL	1	
22	1025Z4215	· · BALL, Stop	1	
23	1014Z4297	· · BODY, Outlet	1	
24	1020Z12801	· · TUBE, Pump	1	
25	1044Z1555	· · ADAPTER	1	
26	1018Z12441	· · ROD, Connecting	1	
27	1044Z1556	· · ADAPTER	1	
28	1025Z4214	· · BALL	1	
29	1025Z4216	· · BALL	1	
30	1019Z2461	· · PIN	1	
31	1036Z2139	· · BUSHING & PLUNGER	1	
32	1018Z12442	· · ADAPTER, Tube	1	
33	1036Z2140	· · BUSHING & PLUNGER	1	
34	1018Z12443	· · RETAINER	1	

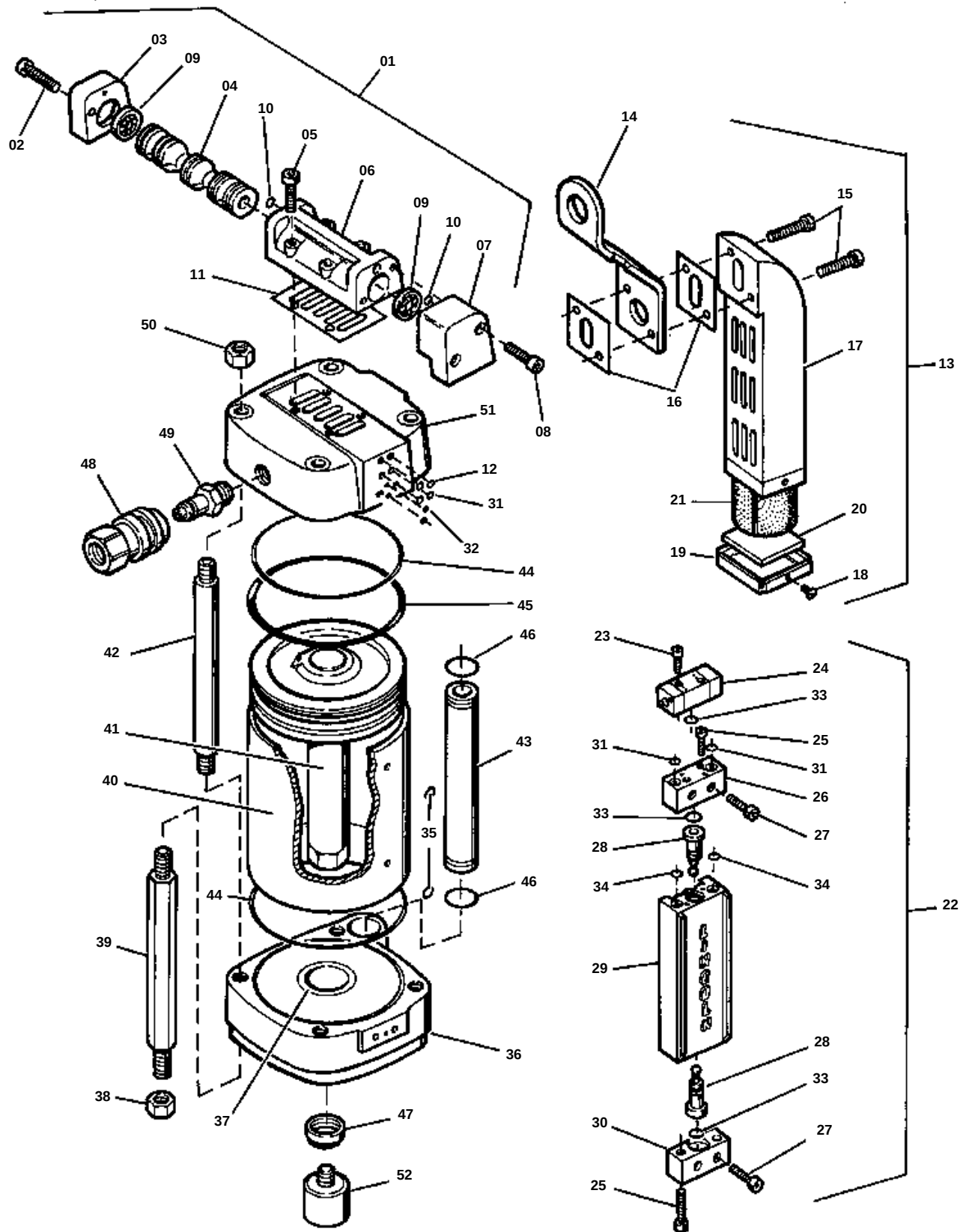


PUMP, LUBRICATION

[illegible]



AIRMOTOR



F5145



AIRMOTOR

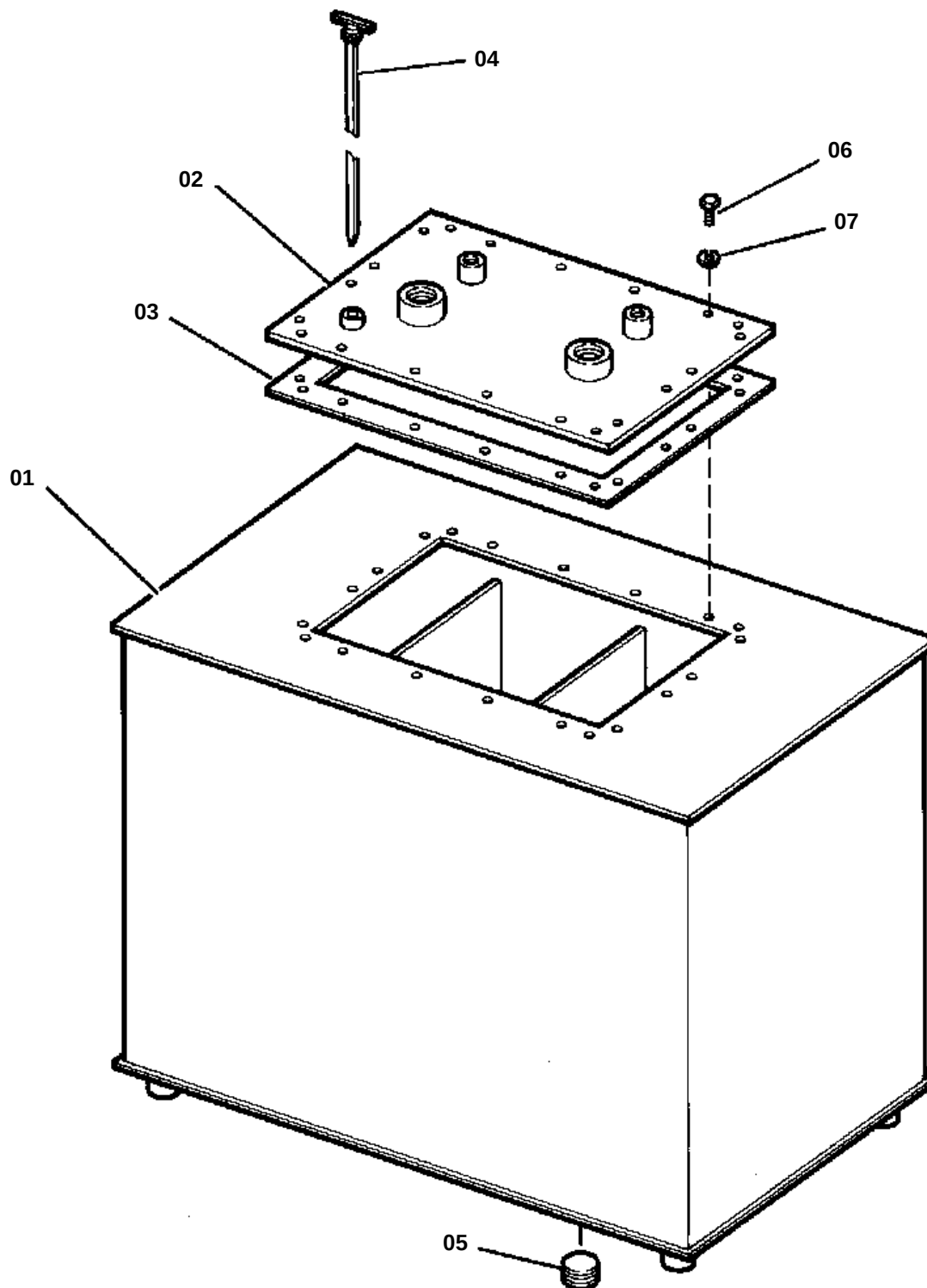
REF	PART NO.	DESCRIPTION	QTY
	1041Z81	AIRMOTOR	
01	1036Z2341	· VALVE ASSEMBLY, Power	1
02	1020Z12804	· · SCREW	2
03	1014Z4298	· · CAP, Valve	1
	1036Z2144	· · SPOOL & BODY	1
04	1036Z2145	· · · SPOOL, Valve	1
05	1020Z12805	· · · SCREW, 1/4-20UNC	4
06	1036Z2146	· · · BODY, Valve	1
07	1014Z4299	· · CAP, Valve	1
08	1020Z12806	· · SCREW	2
	1045Z3655	· · KIT, Valve seal	2
09		· · · BUMPER, Valve	2
10		· · · O-RING	2
11		· · · GASKET	1
12		· · · O-RING	2
13	1027Z530	· MUFFLER/GASKET	1
	1016Z1297	· · KIT, Bracket	1
14		· · · BRACKET	1
15	1020Z12807	· · · CAPSCREW, 1/4-20UNC x 1-11/16 in	2
16		· · · GASKET	2
17	1014Z4300	· · BODY, Muffler	1
18	1020Z12808	· · SCREW, Self tapping	2
19	1018Z12446	· · PLATE, Muffler	1
	1046Z967	· · KIT, Muffler element	1
20		· · · END, Element	1
21		· · · ELEMENT, Air muffler	1
22	1036Z2147	· PILOT BAR	1
23	1020Z12809	· · SCREW, 6-32UNC	2
24	1036Z2148	· · VALVE, Relay	1
25	1020Z12810	· · SCREW, 1/4-20UNC	4
26	1016Z1298	· · BRACKET, Upper	1
27	1020Z12811	· · SCREW	4
28	1036Z2149	· · VALVE, Air signal	2
29	1036Z2150	· · PILOT BAR	1
30	1016Z1299	· · BRACKET, Lower	1
	1045Z3656	· · KIT, Pilot bar seal	1
31		· · · O-RING	4

AIRMOTOR

REF	PART NO.	DESCRIPTION	QTY
32		· · · O-RING	3
33		· · · O-RING	3
34		· · · O-RING	2
35		· · · O-RING	2
36	1016Z1300	· CASTING, Lower	1
37	1005Z1193	· BEARING, Rod	1
38	1020Z12812	· NUT, 1/2-13UNC	4
39	1020Z12813	· TIE, Rod	4
40	1020Z12814	· TUBE, Cylinder	1
41	1039Z1029	· PISTON ROD ASSEMBLY	1
42	1020Z12815	· ROD, Tie	4
43	1020Z12816	· TUBE, Air	1
	1045Z3657	· KIT, Cylinder tube seal	1
44		· · SEAL, Cylinder	2
45		· · SEAL, Piston	2
46		· · O-RING	2
47		· · "U" CUP	1
48	1044Z1557	· COUPLER	1
49	1044Z1558	· NIPPLE	1
50	1020Z12817	· NUT	4
51	1016Z1301	· CASTING, Upper	1
52	1020Z12818	· ADAPTER	1



GREASE TANK



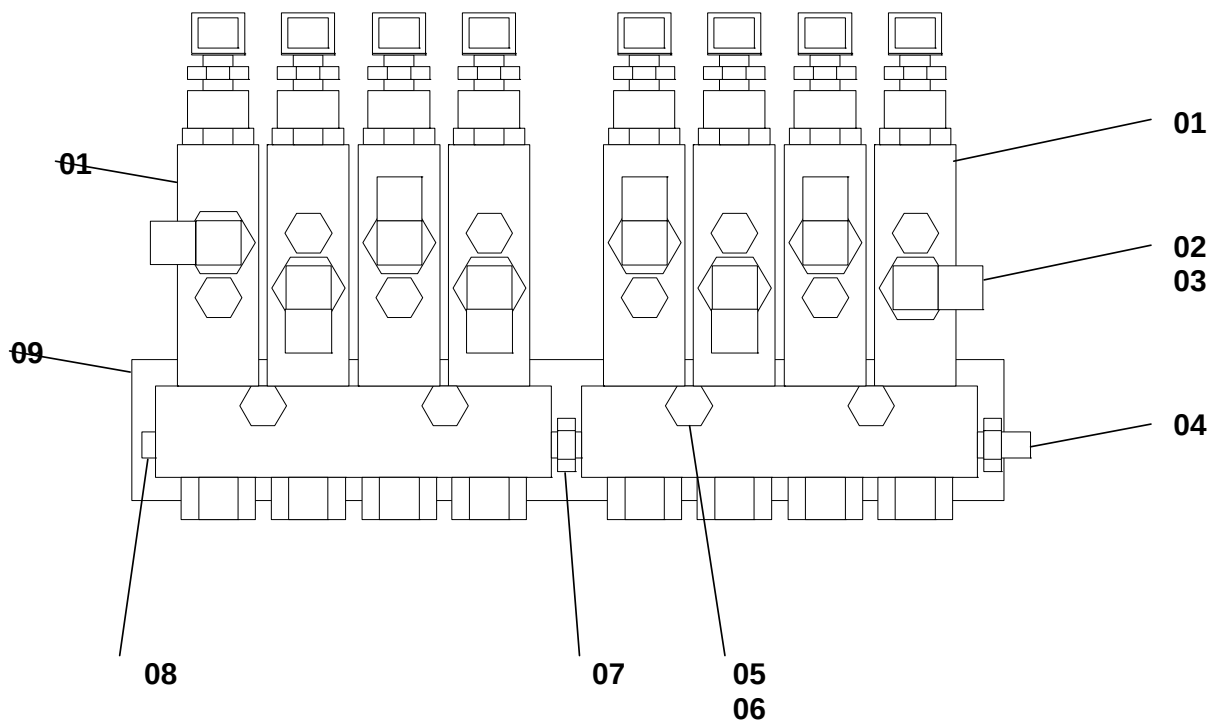
F4296

GREASE TANK

REF	PART NO.	DESCRIPTION	QTY
	927N92F2	GREASE TANK	
01	27J3530D2	· TANK, Lube	1
02	14N2984D1	· COVER, Lube Tank	1
03	20P2002D1	· GASKET, Lube Tank	1
04	20T8636	· DIPSTICK	1
05	2424V009	· PLUG, Pipe 2 in	1
06	20Q260D258	· SCREW, Hex Hd Cap 3/8-16UNC X 1 in	22
07	3616V009	· WASHER, Lock 3/8 in	22



INJECTOR ASSEMBLY



F5267



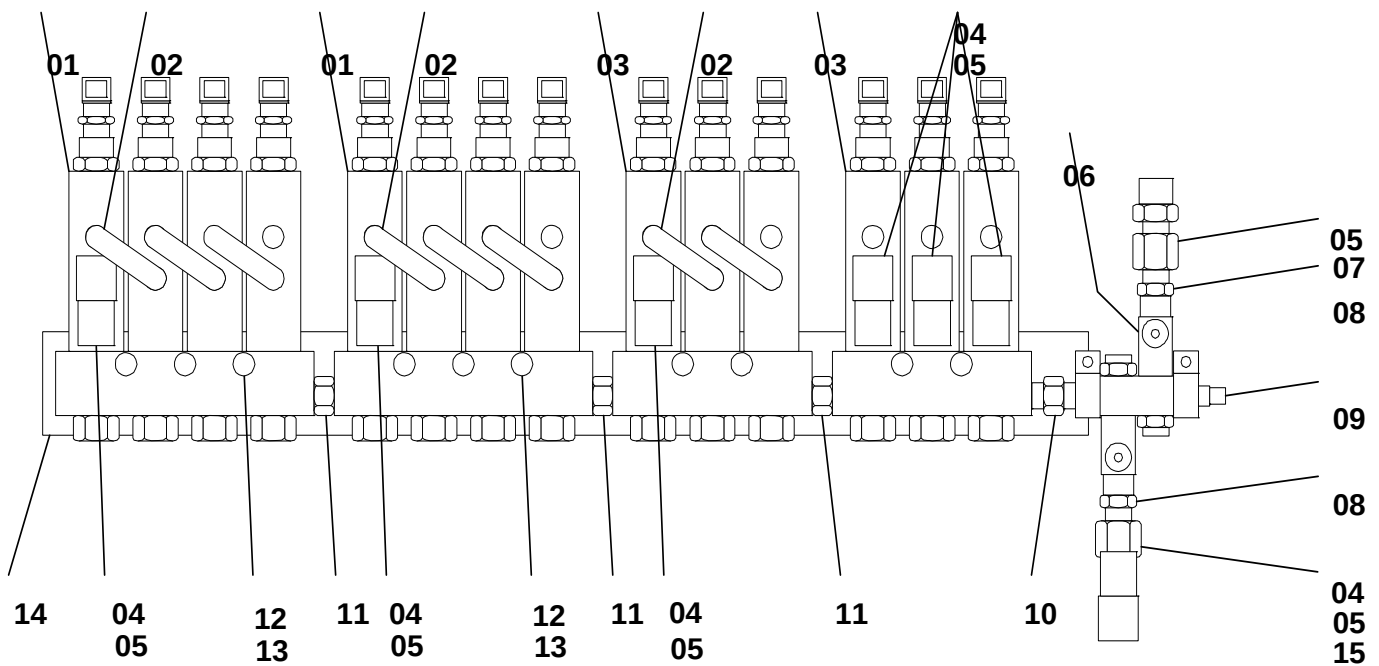
Machine
Serial Number: **4184**

INJECTOR ASSEMBLY

[illegible]



INJECTOR ASSEMBLY



INJECTOR ASSEMBLY

F5823



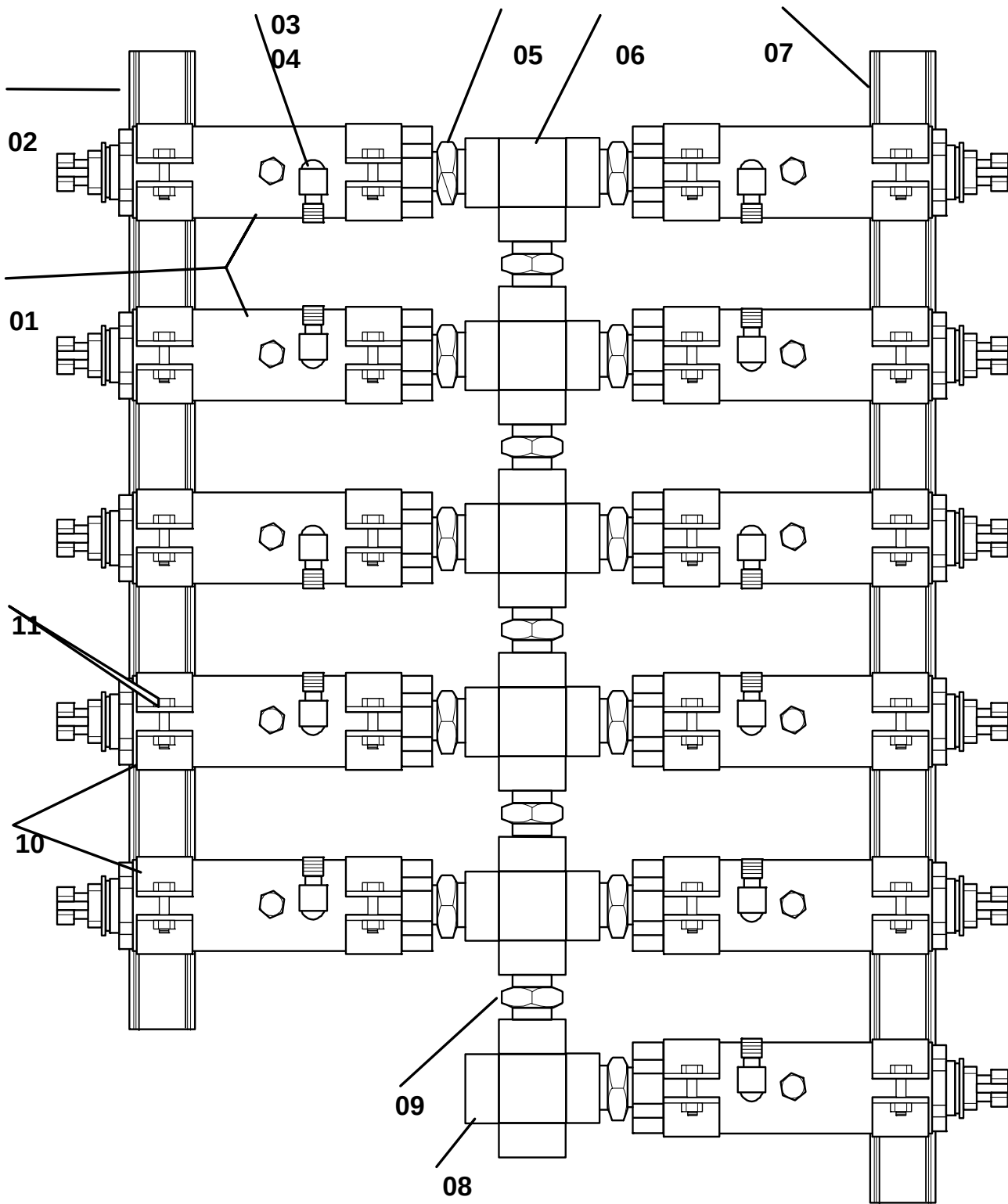
Machine
Serial Number: **4184**

INJECTOR ASSEMBLY

[illegible]



VALVE ASSEMBLY



F5011



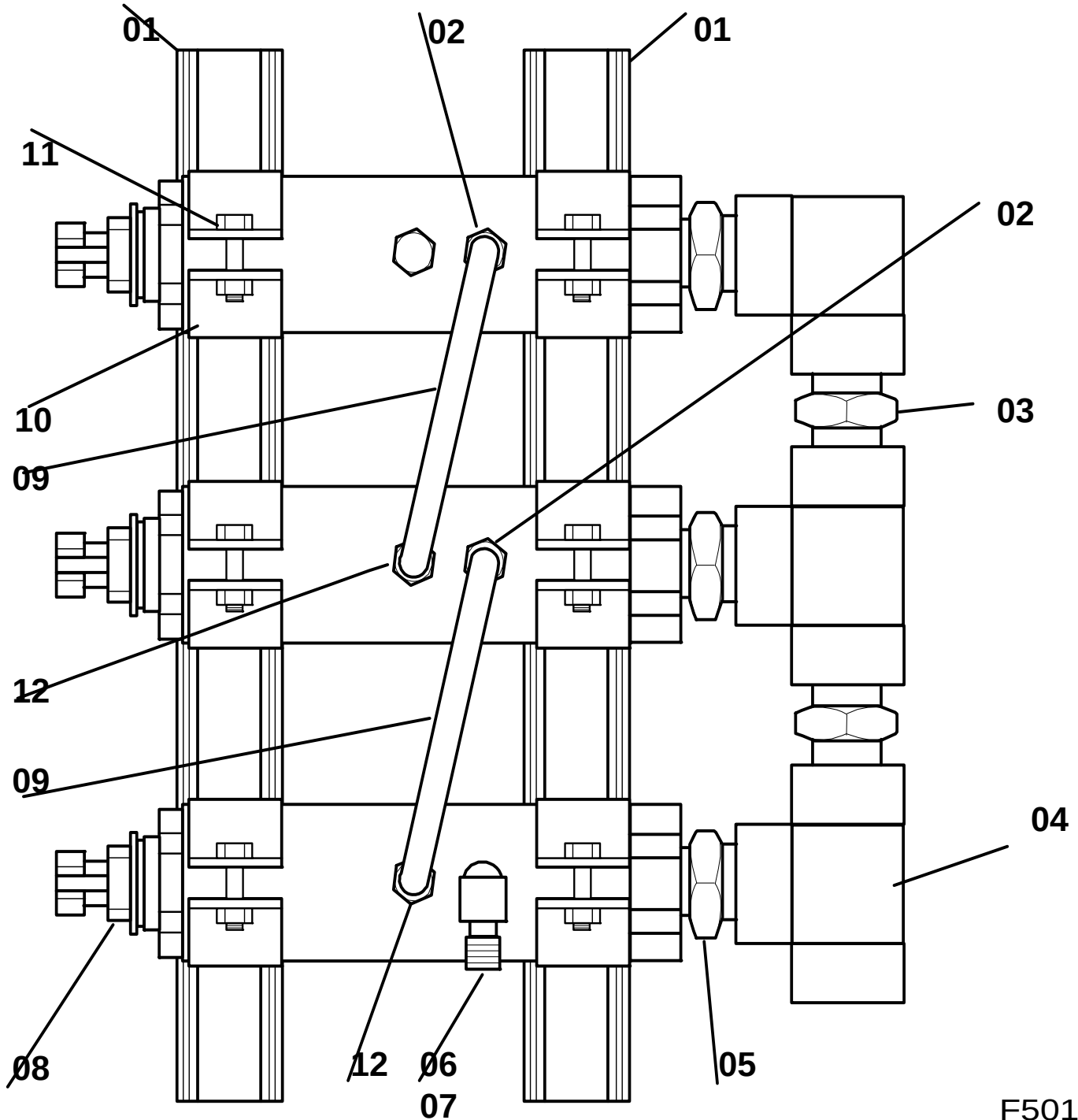
Machine
Serial Number: **4184**

VALVE ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R4324F2	VALVE ASSEMBLY		
01	44Z1444	• INJECTOR	11	10-23
02	R3001D3	• CHANNEL	1	
03	44Z590D12	• ADAPTER, Pipe 1/4 NPT x 37 deg Flare	11	
04	44Z473D6	• SWIVEL, 90 deg	11	
05	44Z943D8	• ADAPTER, Pipe to Pipe 1 in NPT - 1/2 in NPT	11	
06	44Z342D6	• ADAPTER, Pipe, Tee 1 in NPT	1	
07	R3001D4	• CHANNEL	1	
08	44Z969D5	• ADAPTER, Pipe, Cross 1 in NPT	5	
09	44Z558D6	• ADAPTER, Pipe to Pipe 1 in NPT	5	
10	16Z860D6	• CLAMP, Pipe	11	
11	20Q260D195	• SCREW, Hex Hd Cap 1/4-20UNC x 1-1/8 in	11	



VALVE ASSEMBLY



F5012



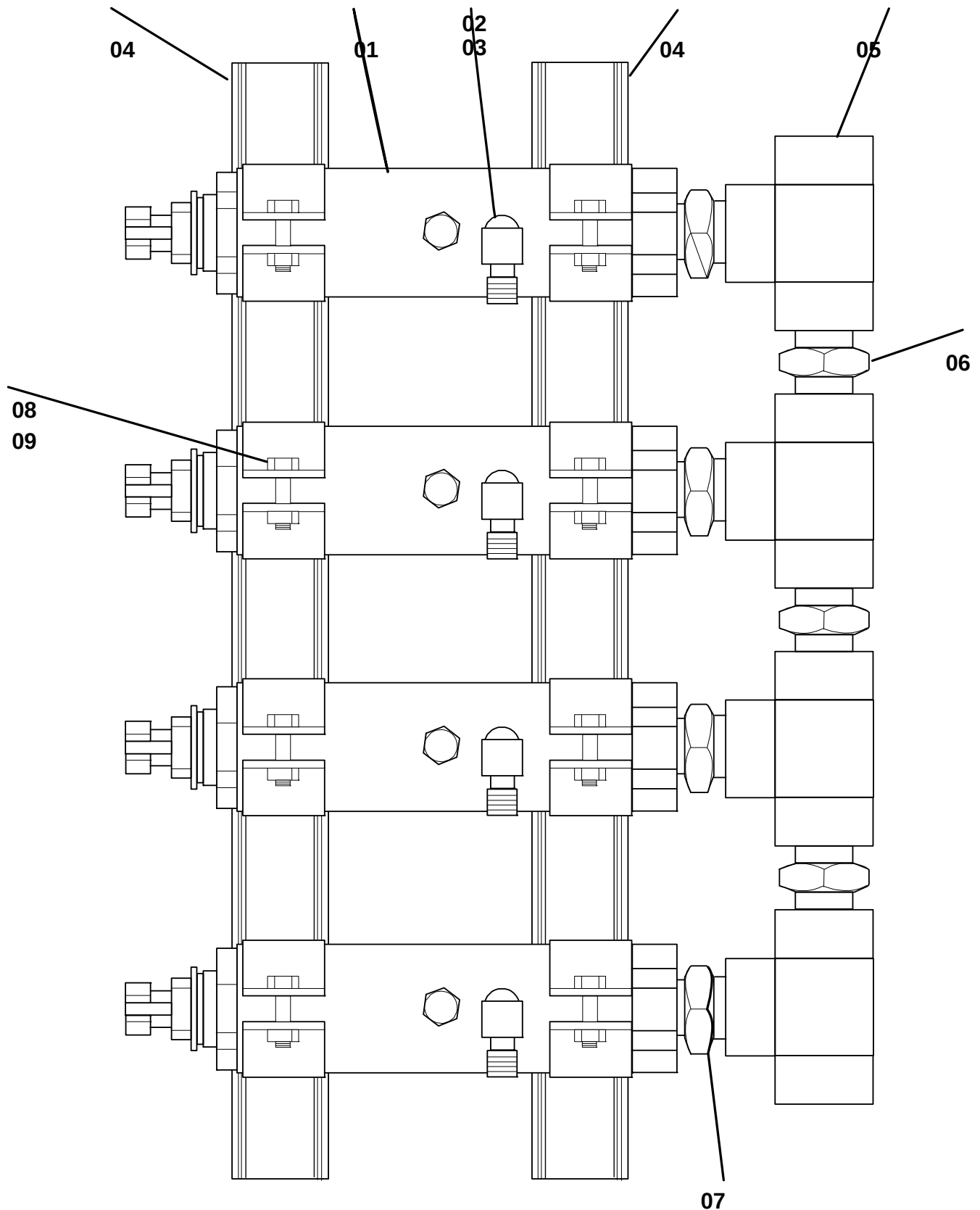
Machine Serial Number: **4184**

VALVE ASSEMBLY

[illegible]



VALVE ASSEMBLY



F5160



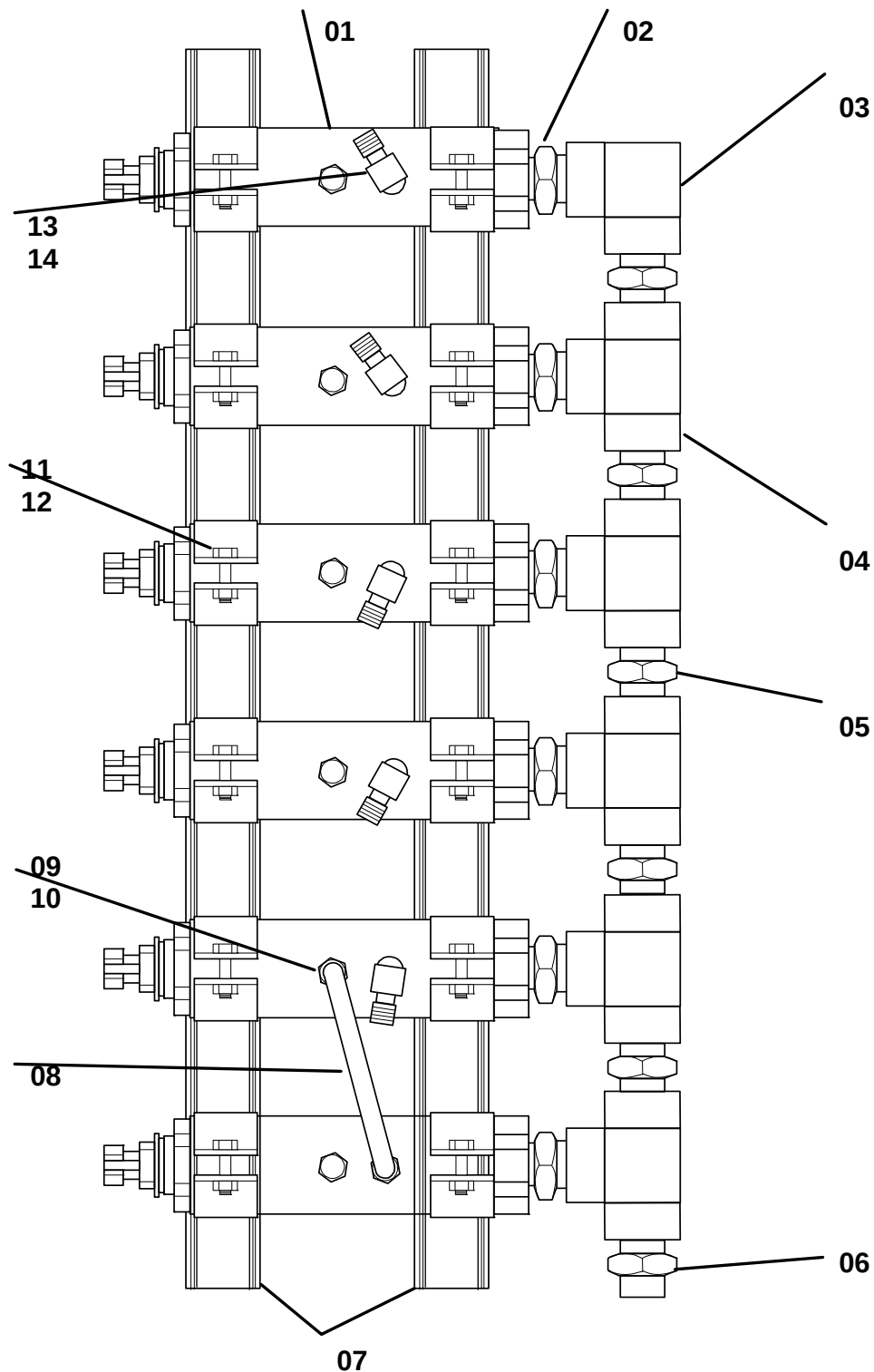
Machine
Serial Number: **4184**

VALVE ASSEMBLY

[illegible]



VALVE ASSEMBLY



VALVE ARRANGEMENT F6 AS SHOWN
VALVE ARRANGEMENT F7 OPPOSITE

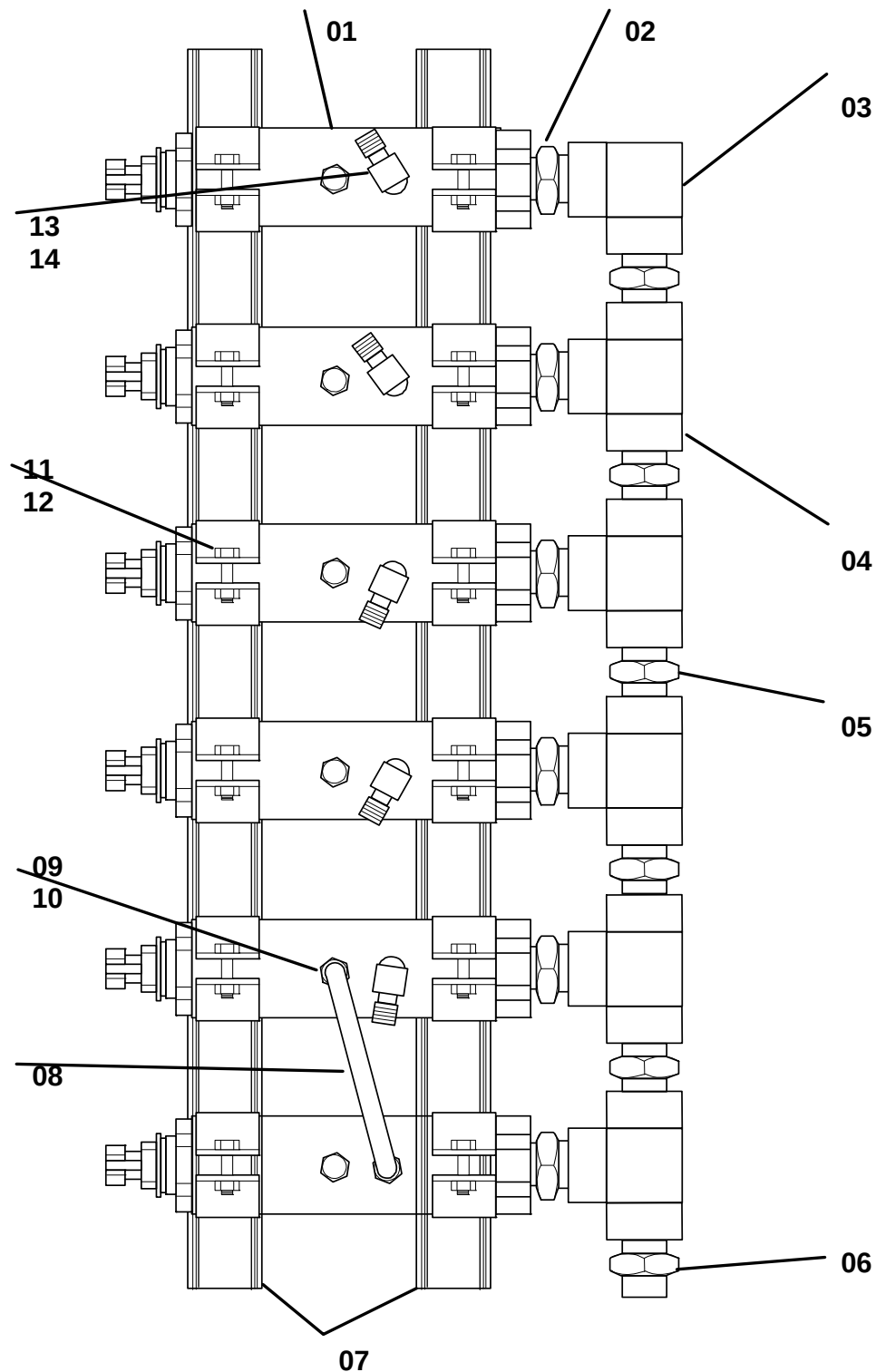
F5220

VALVE ASSEMBLY

[illegible]



VALVE ASSEMBLY



VALVE ARRANGEMENT F6 AS SHOWN
VALVE ARRANGEMENT F7 OPPOSITE

F5220



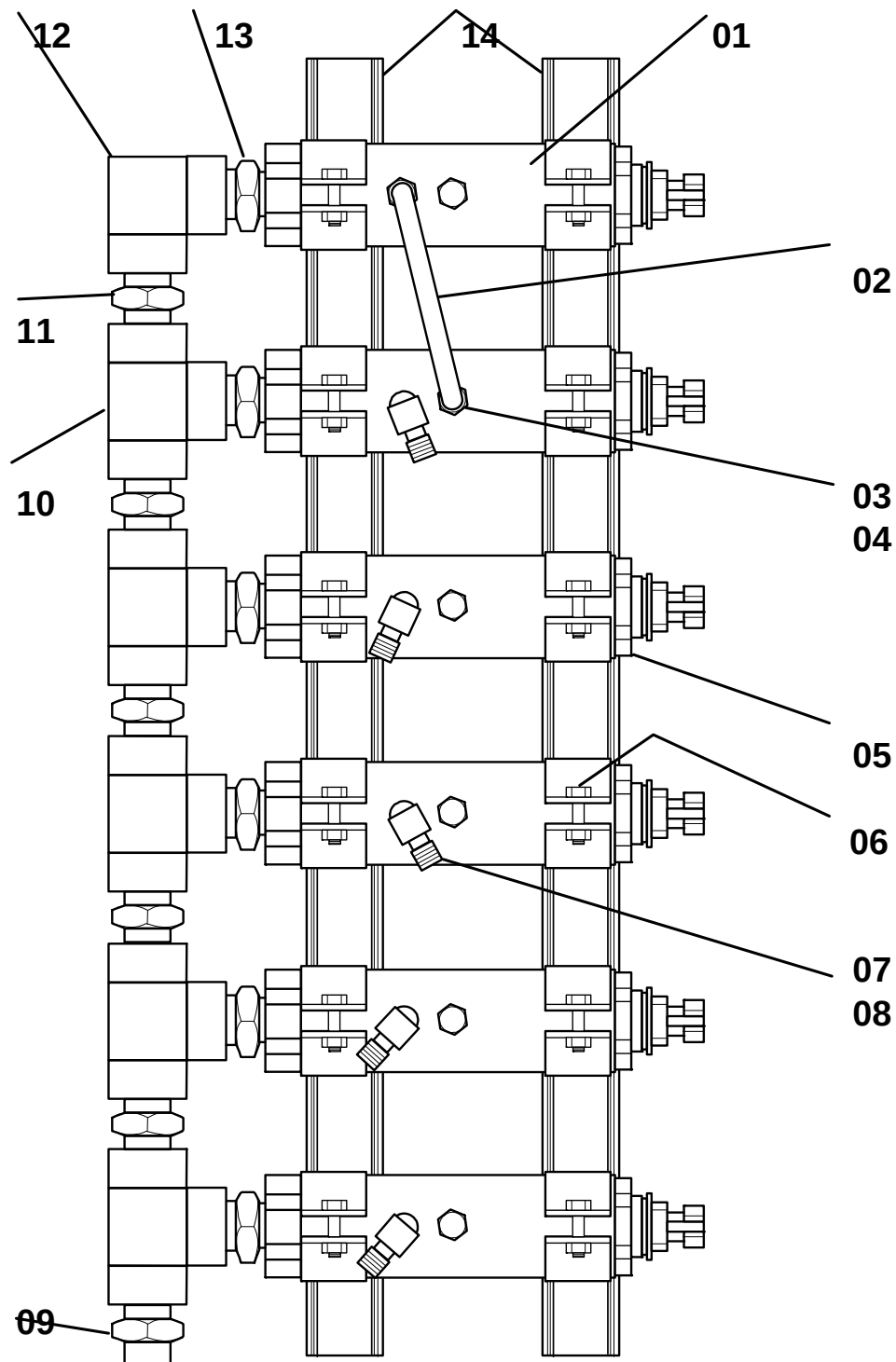
Machine Serial Number: **4184**

VALVE ASSEMBLY

[illegible]



VALVE ASSEMBLY



VALVE ARRANGEMENT F8 AS SHOWN
VALVE ARRANGEMENT F9 OPPOSITE

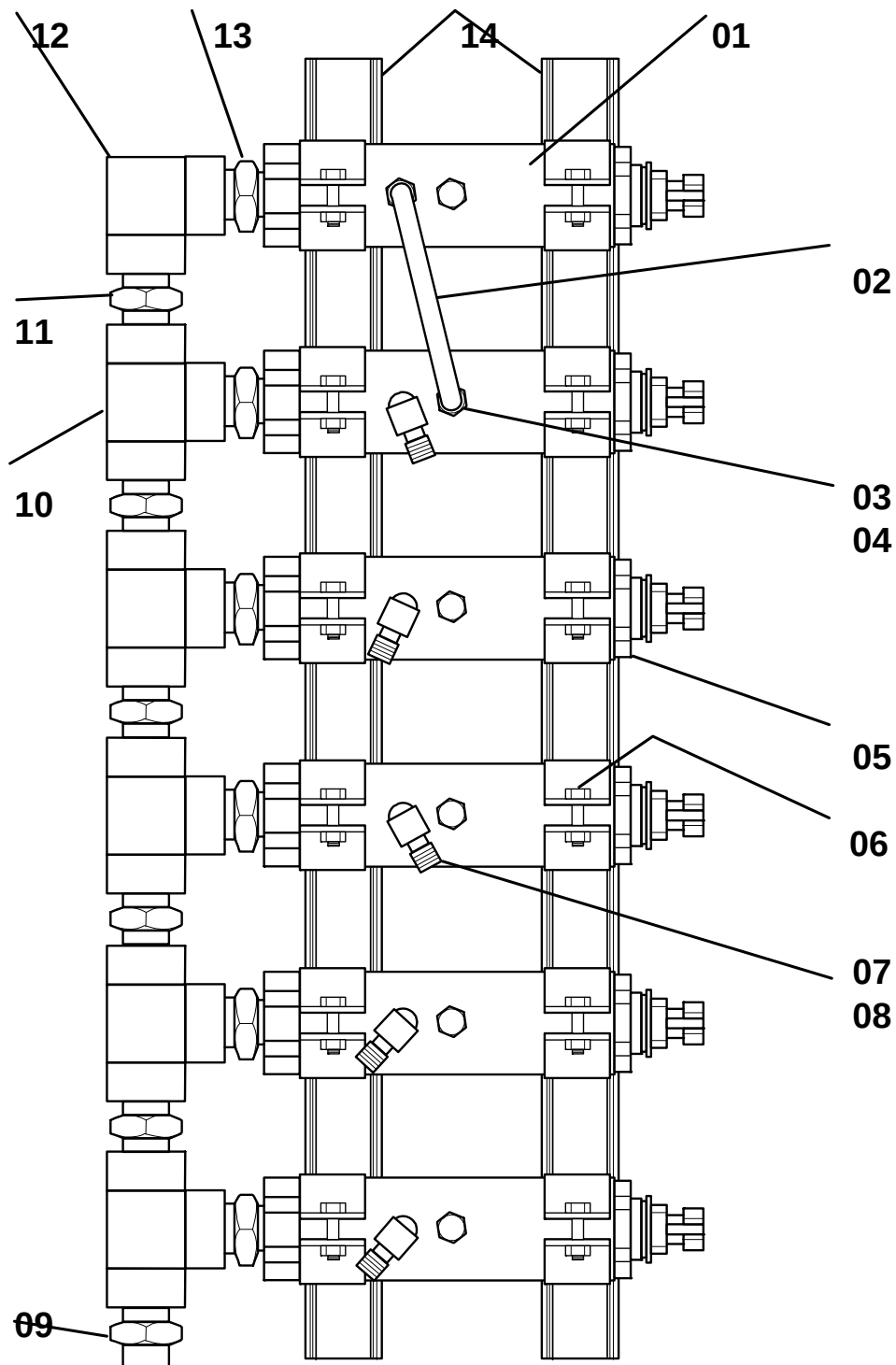
F5221

VALVE ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R4324F8	VALVE ASSEMBLY		
01	44Z1444	• INJECTOR	6	10-23
02	P&H Spec 167	• TUBE, 3/8 x 1/32 x 8 in	1	
03	44Z239D11	• CONNECTOR	1	
04	44Z239D8	• CONNECTOR	1	
05	16Z860D6	• CLAMP, Pipe	12	
06	20Q260D195	• SCREW, Hex Hd Cap 1/4-20UNC x 1-1/8 in	12	
07	44Z590D12	• ADAPTER, Pipe 1/4 NPT x 3/7 De Flare	5	
08	44Z473D6	• SWIVEL, 90 Deg	5	
09	44Z590D20	• ADAPTER, JIC Male Pipe	1	
10	44Z342D6	• ADAPTER, Pipe, Tee	5	
11	44Z558D6	• ADAPTER, Pipe to Pipe	5	
12	44Z2602D11	• ADAPTER, Pipe 90 deg	1	
13	44Z943D8	• ADAPTER, Pipe to Pipe	6	
14	R3001D7	• CHANNEL	2	



VALVE ASSEMBLY



VALVE ARRANGEMENT F8 AS SHOWN
VALVE ARRANGEMENT F9 OPPOSITE

F5221



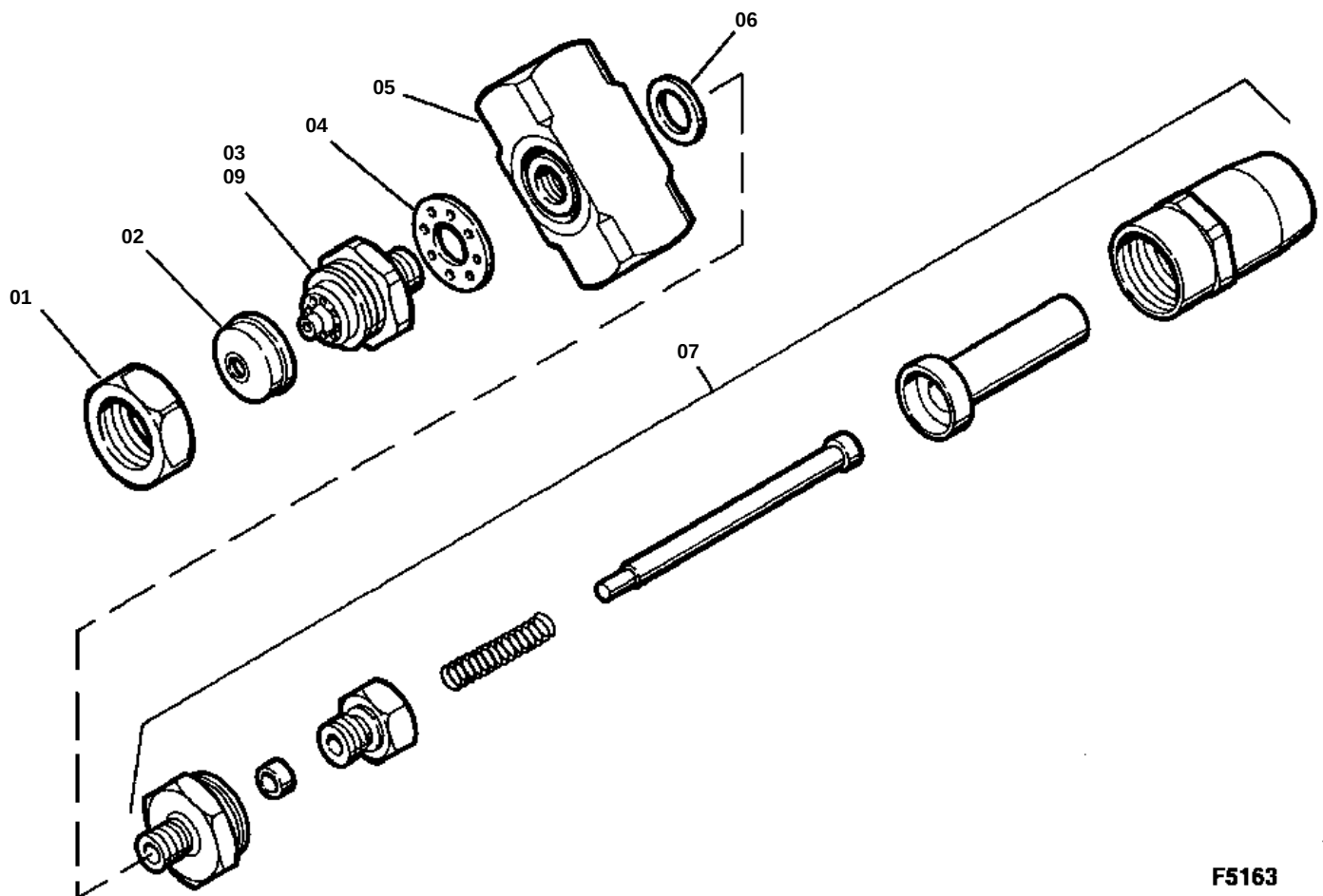
Machine
Serial Number: **4184**

VALVE ASSEMBLY

[illegible]



NOZZLE, SPRAY



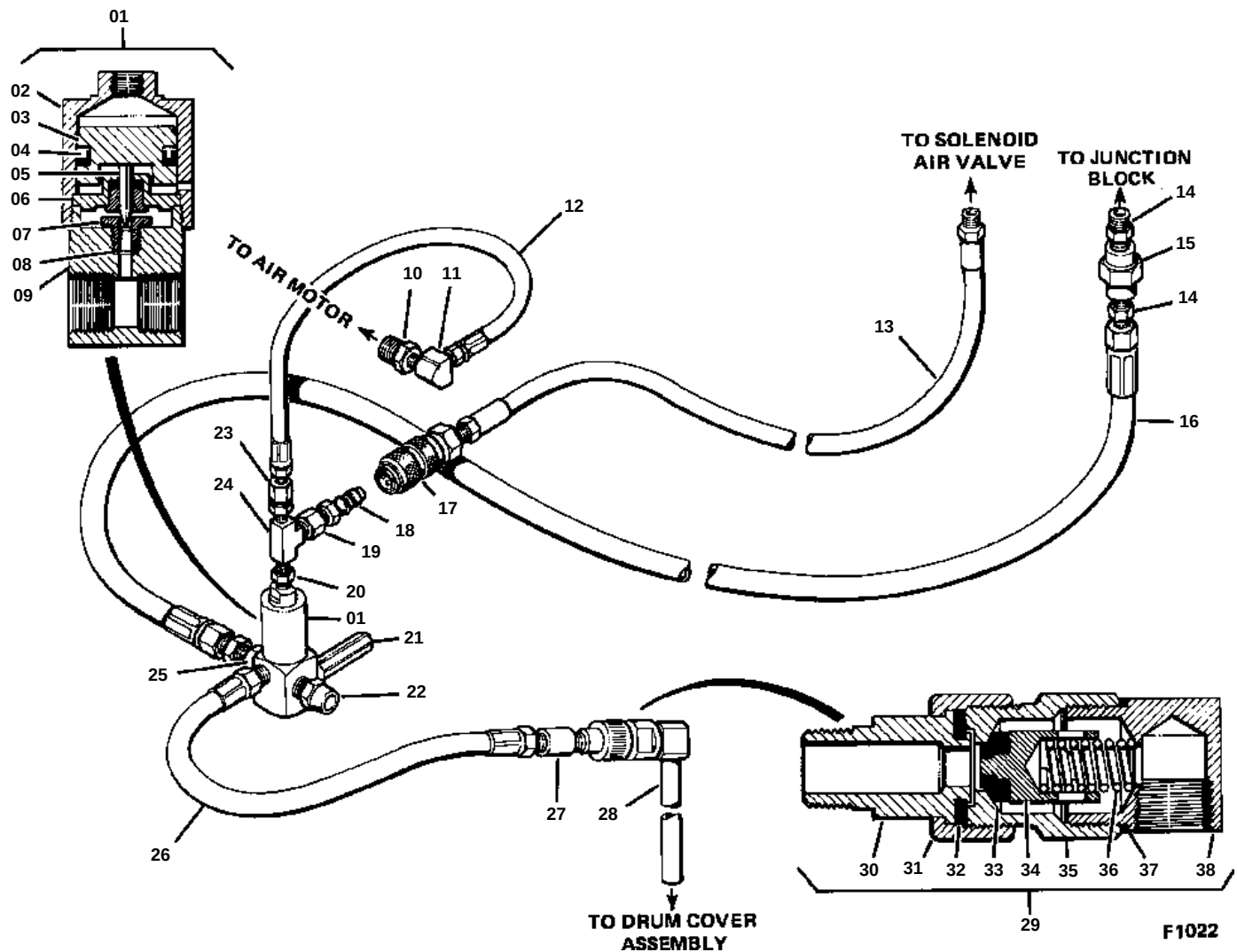
F5163

NOZZLE, SPRAY

REF	PART NO.	DESCRIPTION	QTY
	R5808F3	NOZZLE, SPRAY	
01	R5808D1	· RETAINER, Ring	1
02	R5808D2	· CAP, Air	1
03	R5808D3	· CAP, Fluid	1
04	R5808D4	· GASKET, Fluid Cap	1
05	R5808D5	· BODY, 1/4 in NPT	1
06	R5808D6	· GASKET	1
07	R5808D7	· CLEANOUT ASSEMBLY	1
08		NOT USED	
09		NOT USED	



VENT AND VALVE ASSEMBLY





VENT AND VALVE ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	36Z879D7	VENT AND VALVE ASSEMBLY	
01	1036Z1367	• VALVE, Vent	1
02	1038Z563	• • CYLINDER, Air	1
03	1039Z906	• • PISTON, Cylinder	1
04	1018Z8131	• • PACKING	1
05	1036Z1368	• • NEEDLE	1
06	1018Z8132	• • PACKING ASSEMBLY	1
07	1036Z1369	• • SEAT, Valve	1
08	1020Z8075	• • GASKET, Check Set	1
09	1014Z3555	• • BODY, Valve	1
10	1044Z1278	• BUSHING	1
11	1044Z1282	• ELBOW, Street	1
12	1044Z1037	• HOSE ASSEMBLY	1
13	1044Z1287	• HOSE ASSEMBLY	1
14	1018Z2951	• NIPPLE, Maple Pipe	2
15	1044Z1284	• UNION, Female Pipe	1
16	1044Z368	• HOSE ASSEMBLY	1
17	1044Z1039	• SOCKET ASSEMBLY	1
18	1020Z10435	• PLUG, Connector	1
19	1044Z1274	• ADAPTER	1
20	1045Z1581	• NIPPLE, Male Pipe	1
21	SEE NOTE	• UNLOADER, Safety	1
22	1044Z1280	• NIPPLE, Hex	1
23	1044Z1281	• ADAPTER, Union	1
24	1044Z1283	• TEE	1
25	1044Z1288	• REDUCER	1
26	1044Z1038	• HOSE ASSEMBLY	1
27	1018Z2953	• COUPLING, Pipe	1
28	1044Z1285	• TUBE, Vent	1
29	1044Z399	• UNION & ELBOW ASSEMBLY	1
30	1044Z1276	• • NIPPLE, Check Union	1
31	1044Z1275	• • NUT, Elbow Union	1
32	1020Z10434	• • GASKET, Elbow Union	1
33	1018Z8133	• • PACKING	1
34	1014Z3554	• • BODY, Check	1
35	1044Z1279	• • CONNECTOR OUTLET	1
36	1017Z1828	• • SPRING, Check	1



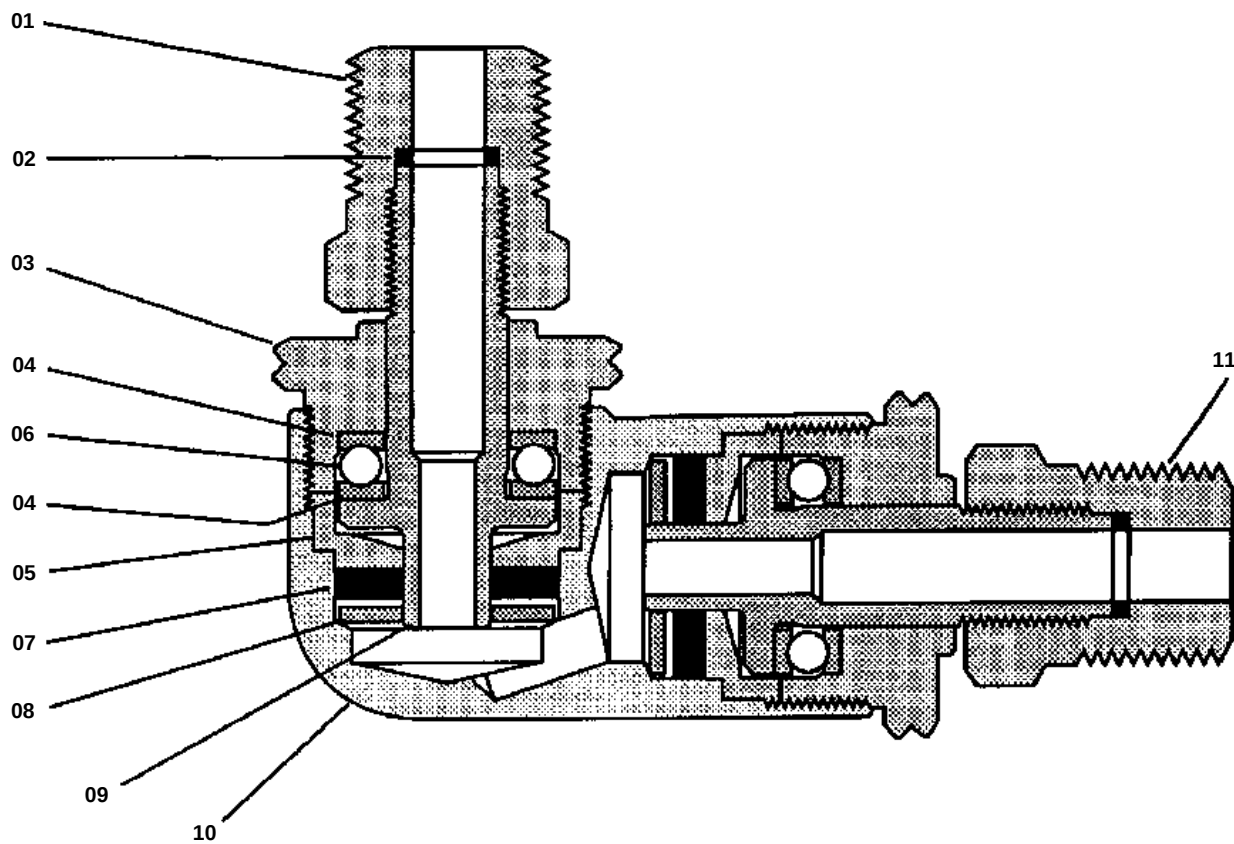
VENT AND VALVE ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
37	1020Z8074	· · GASKET	1
38	1014Z3553	· · HOUSING, Check	1

NOTE: If a complete "VENT & VALVE ASSEMBLY" is ordered for field replacement, reference 21 must be replaced with a 36Z879D68 "Safety Unloader".



SWIVEL, AIR



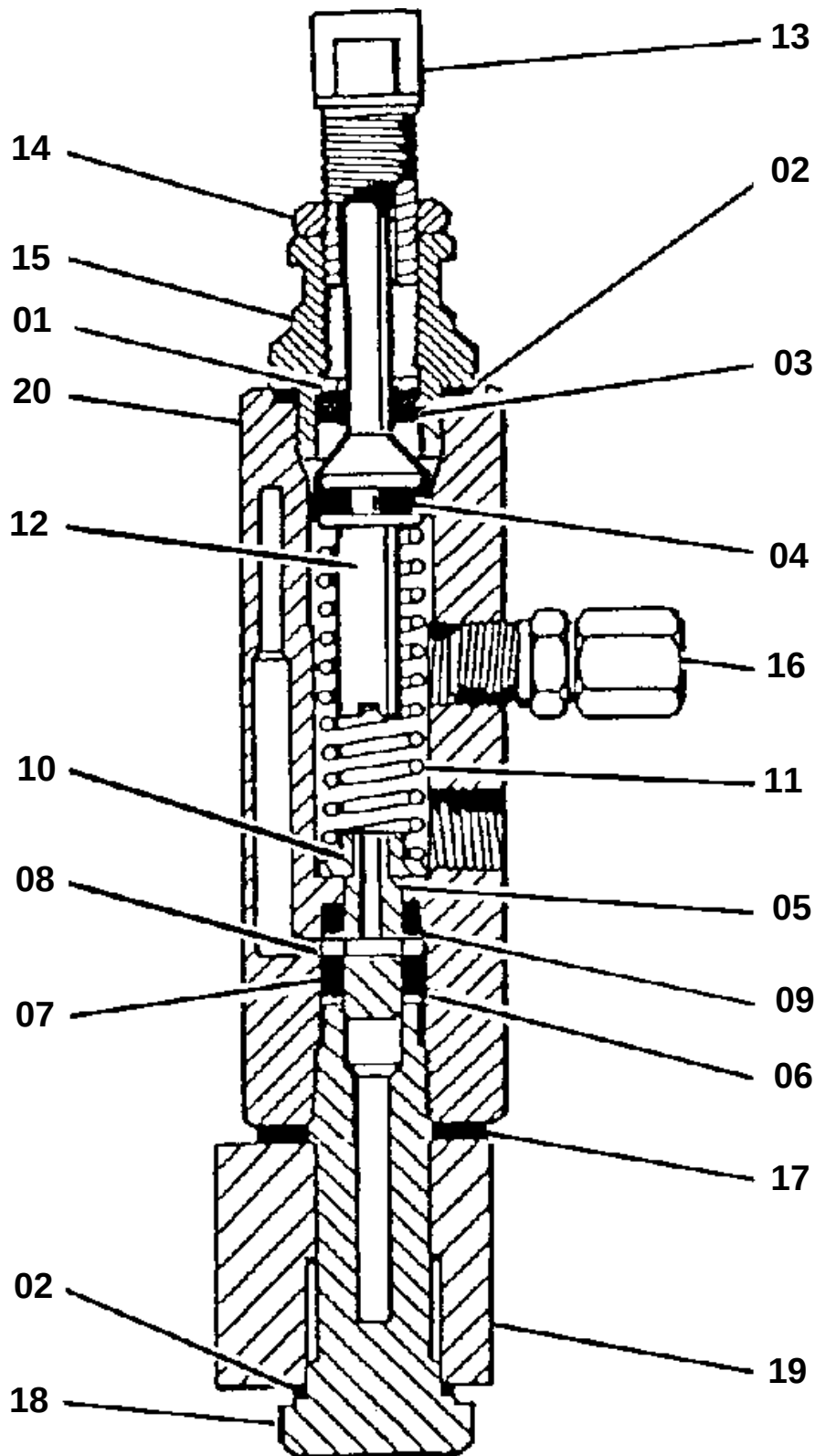
F5270

SWIVEL, AIR

REF	PART NO.	DESCRIPTION	QTY
	36Z879D22	SWIVEL, 90 Degree	
01	1018Z12460	· ADAPTER	1
02	1020Z12833	· GASKET	2
03	1020Z12834	· NUT	2
04	1018Z12463	· WASHER	4
05	1018Z12461	· RETAINER	2
06	1025Z3553	· BALL	26
07	1018Z9579	· PACKING	2
08	1018Z12462	· WASHER	2
09	1020Z12835	· STUD	2
10	1036Z2151	· BODY	1
11	1018Z12459	· ADAPTER	1



INJECTOR LUBRICATION---USED W/MANIFOLD



F5760



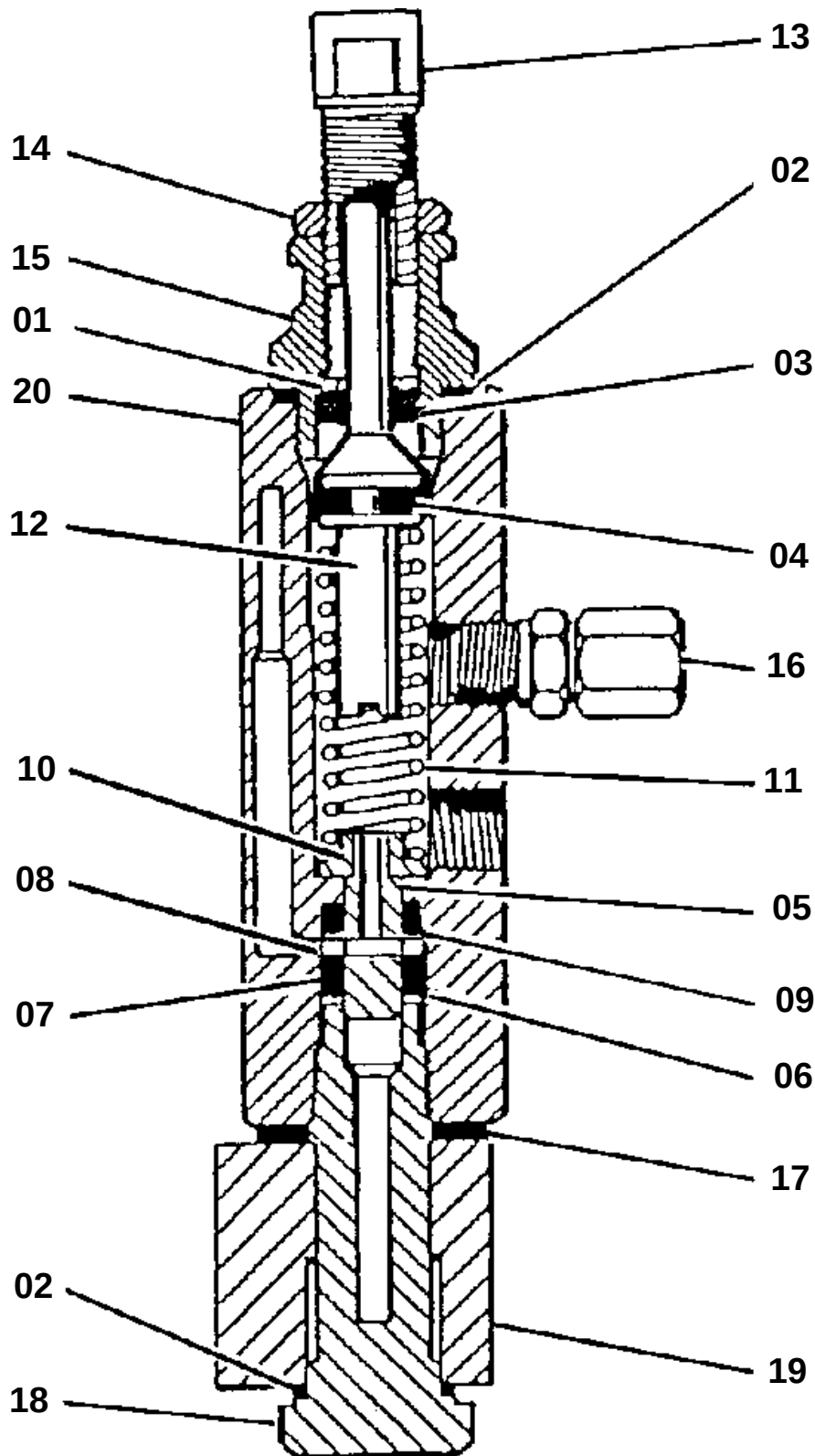
Machine Serial Number: **4184**

INJECTOR LUBRICATION---USED W/MANIFOLD

REF	PART NO.	DESCRIPTION	QTY
	44Z1169D3	INJECTOR LUBRICATION-USED W/MANIFOLD	
	1036Z1358	· KIT, Injector repair	1
01		· · WASHER	1
02		· · GASKET	2
03		· · PACKING	1
04		· · O-RING	1
05		· · PLUNGER	1
06		· · WASHER	1
07		· · PACKING	1
08		· · DISC, Inlet	1
09		· · PACKING	1
10		· · SEAT, Spring	1
11		· · SPRING, Plunger	1
12		· · PISTON ASSEMBLY	1
13	1020Z10420	· NUT, Adjusting	1
14	1020Z10421	· NUT, Lock	1
15	1020Z10921	· PLUG, Piston stop	1
16	1044Z1272	· FITTING & CAP	1
17	1020Z8066	· GASKET	1
18	1020Z10924	· BOLT, Adapter	1
19	1018Z8126	· MANIFOLD, 3 Injector	1
20	1036Z2162	· BODY, Injector	1



INJECTOR, LUBRICATION---USED W/MANIFOLD



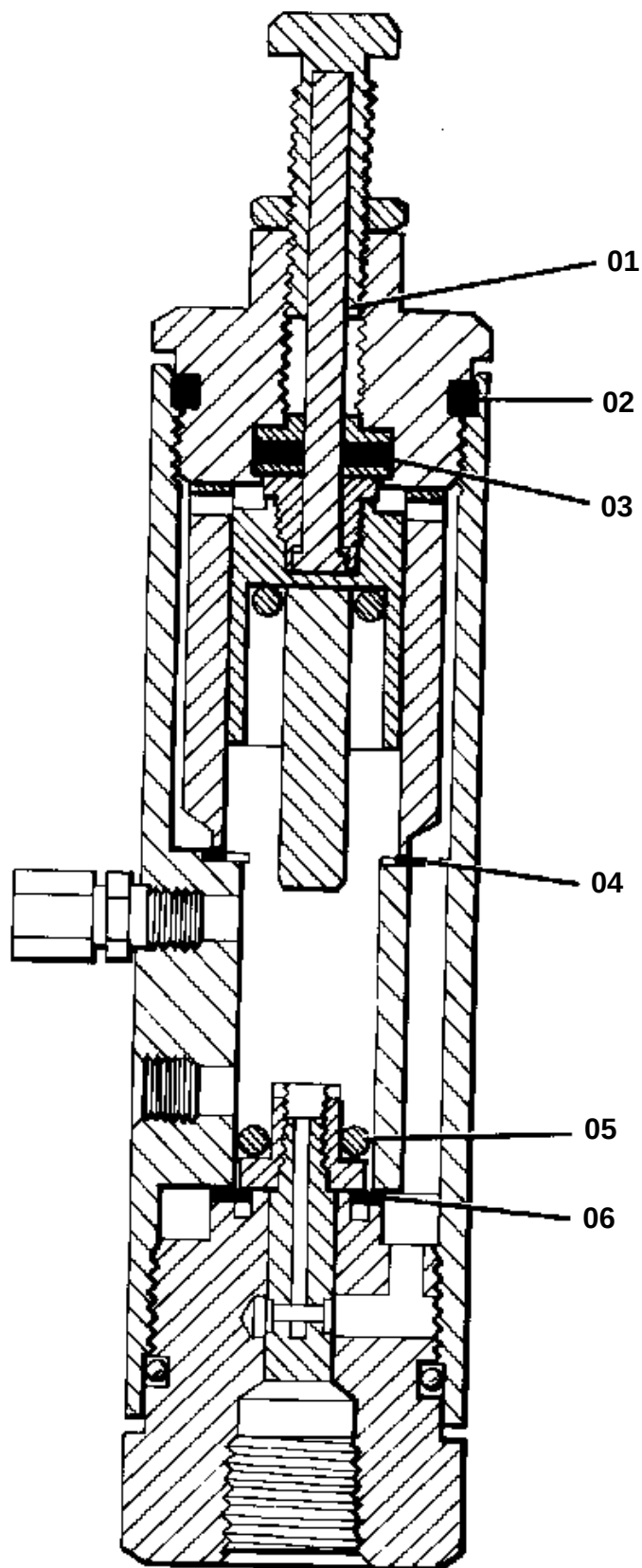
F5760

INJECTOR, LUBRICATION---USED W/MANIFOLD

REF	PART NO.	DESCRIPTION	QTY
	44Z1169D4	INJECTOR, LUBRICATION-USED W/MANIFOLD	
	1036Z1358	· KIT, Injector repair	1
01		· · WASHER	1
02		· · GASKET	2
03		· · PACKING	1
04		· · O-RING	1
05		· · PLUNGER	1
06		· · WASHER	1
07		· · PACKING	1
08		· · DISC, Inlet	1
09		· · PACKING	1
10		· · SEAT, Spring	1
11		· · SPRING, Plunger	1
12		· · PISTON ASSEMBLY	1
13	1020Z10420	· NUT, Adjusting	1
14	1020Z10421	· NUT, Lock	1
15	1020Z10921	· PLUG, Piston stop	1
16	1044Z1272	· FITTING & CAP	1
17	1020Z8066	· GASKET	1
18	1020Z10924	· BOLT, Adapter	1
19	1018Z8127	· MANIFOLD, 4 Injector	1
20	1036Z2162	· BODY, Injector	1



INJECTOR



F681



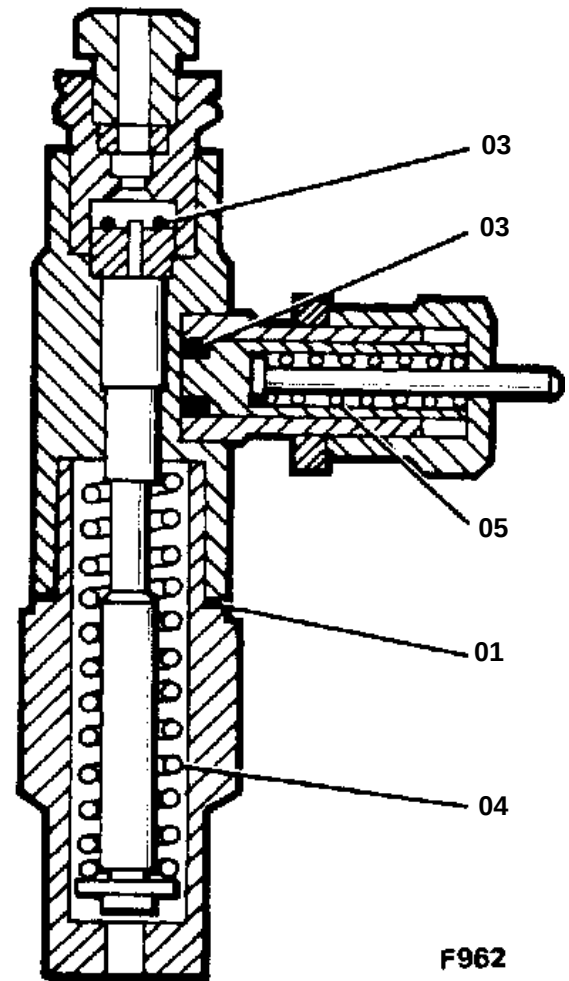
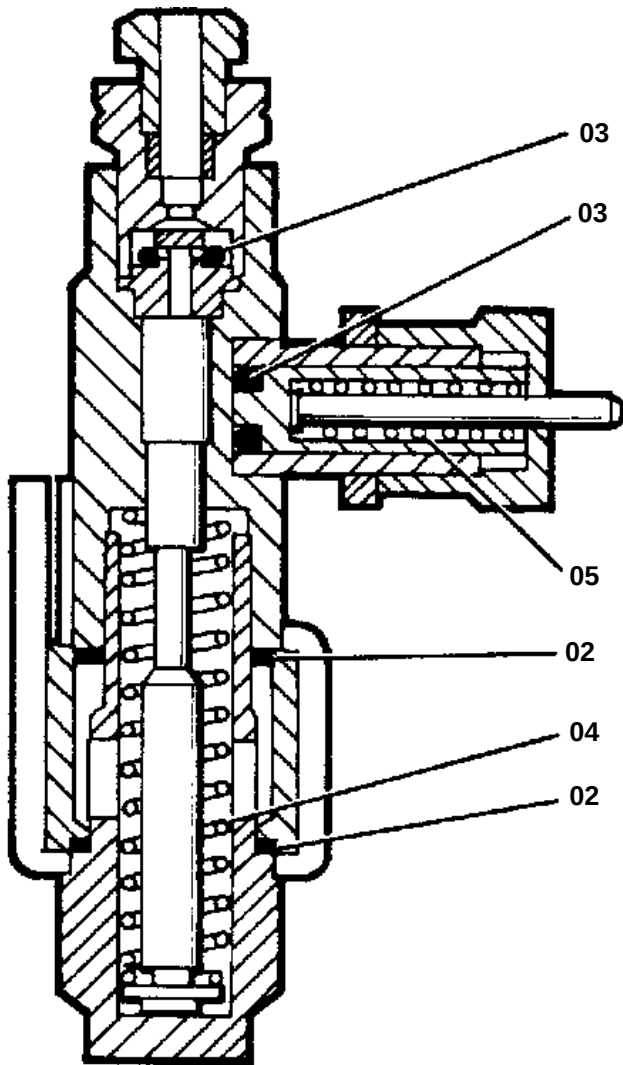
Machine Serial Number: **4184**

INJECTOR

REF	PART NO.	DESCRIPTION	QTY
	44Z1444	INJECTOR	
01	1036Z1357	• ROD, Plunger	1
02	1045Z2487	• O-RING	1
03	1045Z2486	• PACKING, Plunger	1
04	1020Z7997	• GASKET	1
05	1017Z1464	• SPRING	1
06	1020Z7998	• GASKET	1



INJECTOR, LUBRICATION



F962



Machine
Serial Number: **4184**

INJECTOR, LUBRICATION

REF	PART NO.	DESCRIPTION	QTY
	44Z1484D2	INJECTOR, LUBRICATION	
	1018Z8494	· MANIFOLD, 2 Injector	1
	44Z1484D5	· INJECTOR, LUBRICATION - Without Manifold	2
01	1020Z8417	· · GASKET, Injector	1
02	1020Z8418	· · GASKET, Injector	2
03	1045Z2626	· · O-RING, Injector	2
04	1017Z366	· · SPRING, Injector	1
05	1017Z367	· · SPRING, Injector	1

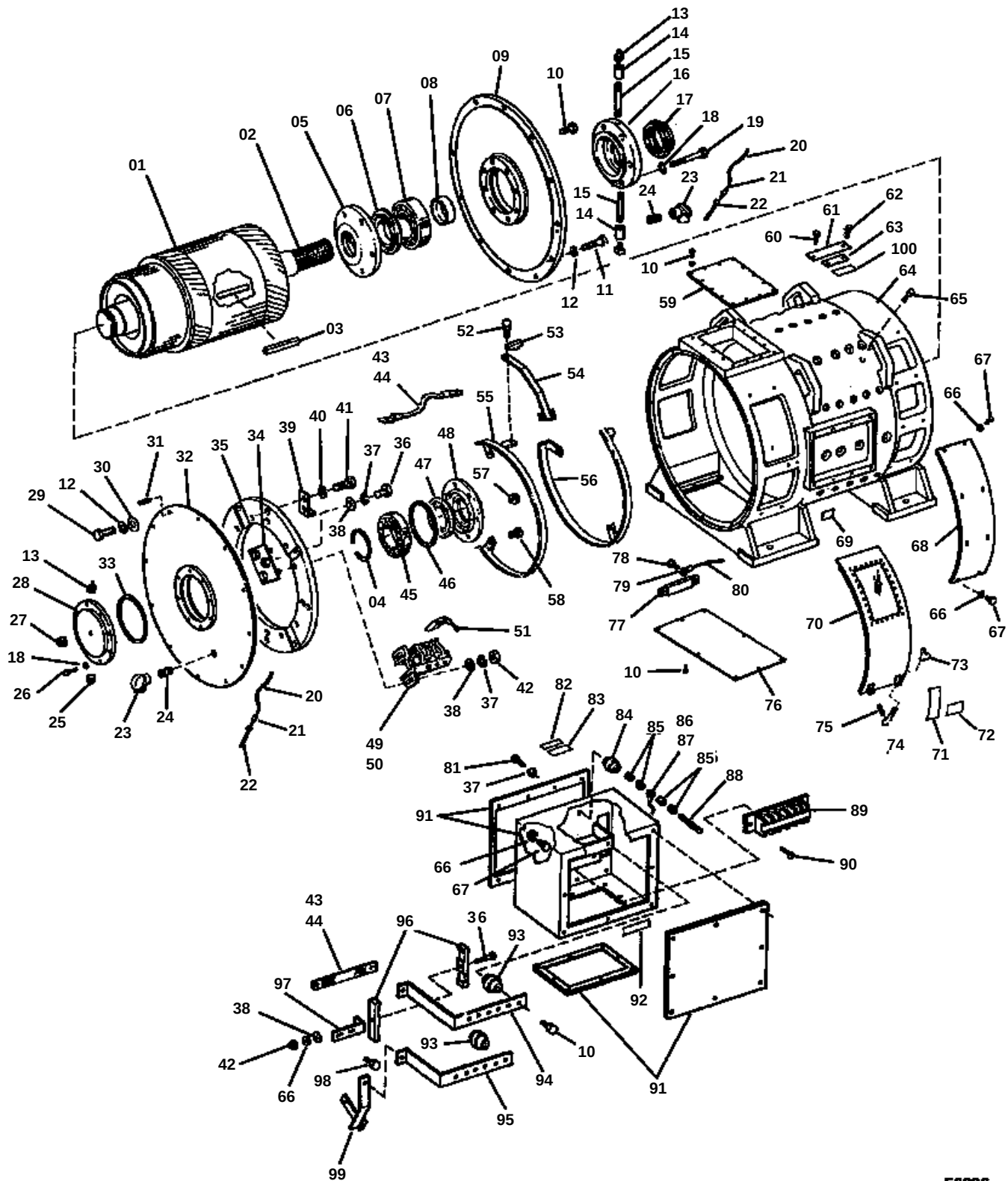


Group 11 - Motors, Electric

Description	Page
MOTOR, ELECTRIC, HOIST	11-1
MOTOR, ELECTRIC, SWING	11-2
MOTOR, ELECTRIC , PROPEL	11-3
MOTOR, ELECTRIC, CROWD	11-4
MOTOR, DIPPER TRIP - FORM "A"	11-17
MOTOR, DIPPER TRIP - FORM "E"	11-18



MOTOR, HOIST



F5535



MOTOR, HOIST

REF	PART NO.	DESCRIPTION	QTY	PAGE
	EBM1238F1	MOTOR, HOIST (Dwg R33465F1)		
01	EBM1238F3	· ARMATURE ASSEMBLY (Dwg R33430F1)	1	
02	R32670D1F1	· · SHAFT, Motor	1	
03	20H3003D80	· · · KEY, 1 x 1 x 10 in lg	1	
04	18Z2D172	· · · RING, Snap	1	
05	572F888	· CAP, Bearing (Rear Inner)	1	
06	518F321	· SLINGER, Grease (Rear Inner)	1	
07	25Z755D15	· BEARING, Roller	1	
08	R33247D1	· SPACER	1	
09	R11780D1	· HEAD, Motor, rear	1	
10	20Z1703D67	· SCREW, Flange locking 3/8-16UNC x 3/4 in lg	46	
11	20Q260D449	· SCREW, Hex hd cap 3/4-10UNC x 2-1/4 in lg	12	
12	3616V015	· WASHER, Lock 3/4 in	24	
13	44Z1D14	· FITTING, Lube 1/4 in	2	
14	2409V002	· COUPLING, Pipe 1/4 in	2	
15	2420V068	· NIPPLE, Pipe 1/4 x 12 in lg	2	
16	R32749D1	· CAP, Bearing (Rear Outer)	1	
17	R33246D1	· SLINGER, Grease (Rear Outer)	1	
18	3616V013	· WASHER, Lock 5/8 in	14	
19	20Q260D417	· SCREW, Hex hd cap 5/8-11UNC x 6 in lg	6	
20	85Z9D4	· CLAMP, Cable	2	
21	89Q136D2	· DETECTOR, Temperature	2	
22	89Z861	· FITTING, Compression	2	
23	89Z862	· HEAD ASSEMBLY, Thermocouple junction	2	
24	2420V102	· NIPPLE, Close 1/2 in	2	
25	2446V502	· PIPE, Plug 1/2 in Sq Hd	2	
26	20Q260D416	· SCREW, Hex hd cap 5/8-11UNC x 5-1/2 in lg	8	
27	20Q260D532	· SCREW, Hex hd cap 1-8UNC x 1-1/4 in lg	1	
28	572F958	· CAP, Bearing (Front Outer)	1	
29	20Q260D450	· SCREW, Hex hd cap 3/4-10UNC x 2-1/2 in lg	12	
30	3631V012	· WASHER, Light plain 3/4 in	1	
31	19Z8D118	· PIN, Spring 1/4 x 3/16 in lg	1	
32	R32952F1	· HEAD, Motor, front	1	
33	570F87D17	· RING, Insulating	1	
34	573F279D3	· CLAMP, Brushholder	6	
35	573F267	· INSULATOR, Brushholder	1	
36	20Q260D266	· SCREW, Hex hd cap 3/8-16UNC x 2-3/4 in lg	7	



MOTOR, HOIST

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	3616V009	• WASHER, Lock 3/8 in	23	
38	3632V004	• WASHER, Heavy plain 3/8 in	21	
39	579H732	• STRAP, Ground	6	
40	3616V011	• WASHER, Lock 1/2 in	12	
41	20Q260D331	• SCREW, Hex hd cap 1/2-13UNC x 2-1/4 in lg	12	
42	20Q270D24	• NUT, Hex 3/8-16UNC	13	
43	579H631D2	• STRAP, Flexible	6	
44	65-R33465	• TAPE, Adhesive glass backed	AR	
45	25Z1035D26	• BEARING, Roller	1	
46	570F87D16	• RING, Insulating	1	
47	518F259	• SLINGER, Grease (Front Inner)	1	
48	572F959	• CAP, Bearing (Front Inner)	1	
49	9573F73F47	• BRUSHHOLDER ASSEMBLY	3	11-5
50	9573F73F48	• BRUSHHOLDER ASSEMBLY	3	11-6
51	73Q2D27	• BRUSH	30	
52	20Z1703D99	• SCREW, Flange locking 1/2-13UNCx 1-1/2 in lg	7	
53	64-R33465	• SPACER	AR	
54	R33448D1	• STRAP, Connecting	1	
55	R33200D1	• CONNECTOR, Brushholder cross	1	
56	R33201D1	• CONNECTOR, Brushholder cross	1	
57	20Z1704D9	• NUT, Flange locking 1/2-13UNC	7	
58	20Z1703D97	• SCREW, Flange locking 1/2-13UNC x 1 in lg	6	
59	514H529	• COVER	1	
60	20Z42D5	• SCREW, Drive #4 x 3/8 in lg	4	
61	532H567	• NAMEPLATE		
62	20Z42D2	• SCREW, Drive #8 x 1/4 in lg	4	
63	532H594	• PLATE, Instruction lube		
64	EBM1238F2	• FIELD RING ASSEMBLY (Dwg R33189F1)	1	11-13
65	520H804	• BOLT, Special hex	4	
66	3616V008	• WASHER, Lock 5/16 in	24	
67	20Q260D225	• SCREW, Hex hd cap 5/16-18UNC x 7/8 in lg	24	
68	514F1409	• COVER	2	
69	32Z2270D1	• LABEL, Heater	2	
70	514E704	• COVER, Hand hole	2	
71	32Q1764D1	• DECAL, (Caution)	2	
72	32Q1801D1	• DECAL, (Warning)	3	
73	20H1067	• NUT, Wing	4	

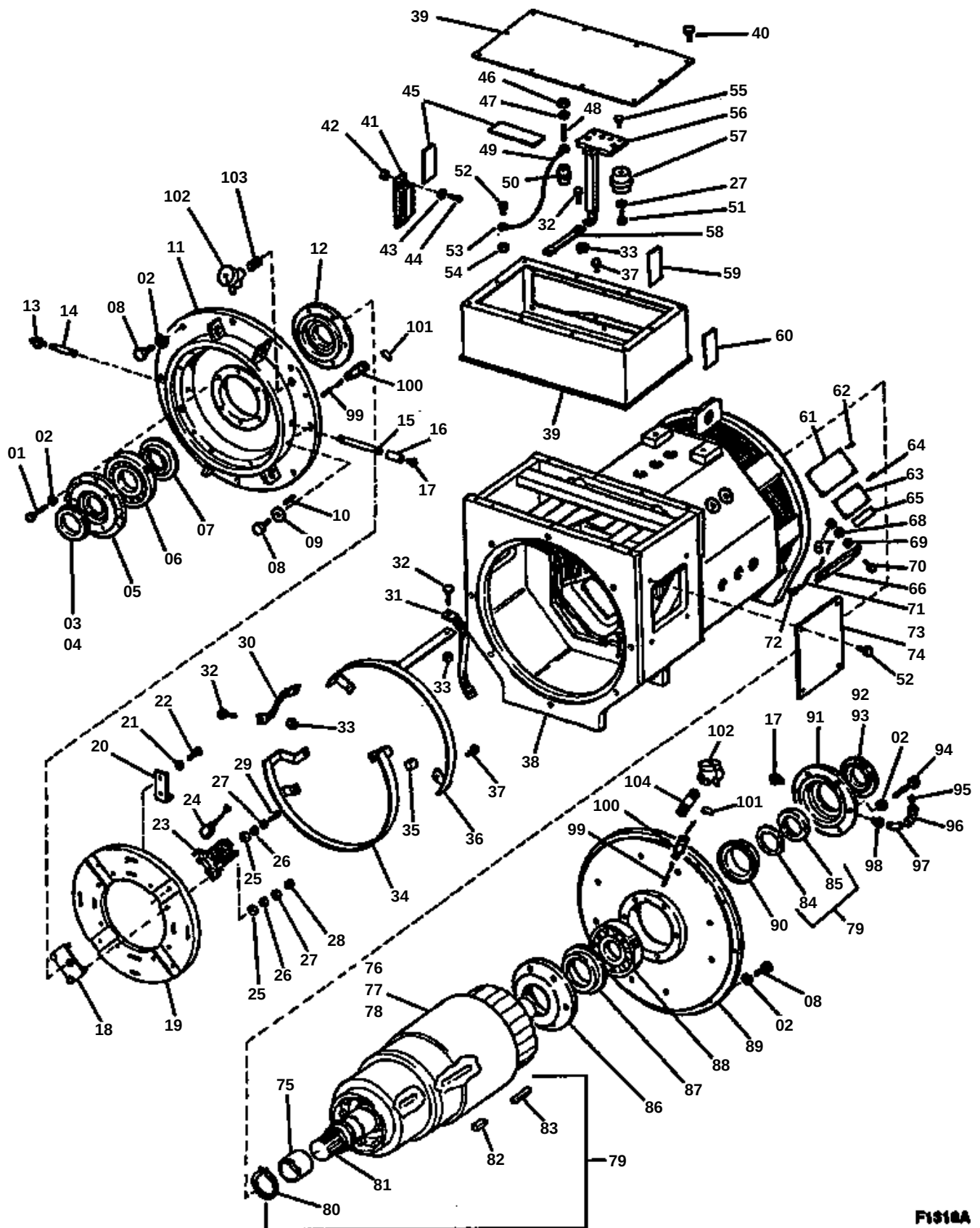


MOTOR, HOIST

REF	PART NO.	DESCRIPTION	QTY	PAGE
74	520H801	• EYEBOLT	4	
75	20Q1D22	• SCREW, Socket head shoulder	4	
76	R33240D1	• COVER	1	
77	80Z112D5	• HEATER	4	
78	20Z41D5	• SCREW, Thread forming 1/4 x 3/4 in lg	8	
79	79U2522D16	• LUG, Solderless terminal	16	
80	201660059	• CABLE, Single conductor lead #12 x 36 ft lg	AR	
81	20Q260D255	• SCREW, Hex hd cap 3/8-16UNC x 5/8 in lg	2	
82	32Q1780D3	• DECAL, (Notice)	1	
83	32Q1805D58	• LABEL, Identification	1	
84	79Z1040D2	• INSULATOR, Standoff	2	
85	2063V003	• NUT, Hex jam 3/8-16UNC	8	
86	201660078	• CABLE, Single conductor lead #2 x 4 ft lg	AR	
87	79U2522D39	• LUG, Solderless terminal	4	
88	520H746	• STUD, Brass	2	
89	79Z726D8	• TERMINAL, Strip	1	
90	20Z1703D16	• SCREW, Flange locking #10-24UNC x 3/8 in lg	2	
91	587A20F1	• BOX, Terminal	1	
92	32Q1810D1	• DECAL, (Danger)	1	
93	79Z1040D3	• INSULATOR, Standoff	4	
94	R33256D1	• STRAP, Connecting	1	
95	R33257D1	• STRAP, Connecting	1	
96	570F89	• BLOCK, Insulation	2	
97	516F193	• BRACKET, Mounting connecting strap	1	
98	20Z1703D69	• SCREW, Flange locking 3/8-16UNC x 1 in lg	2	
99	R33447D1	• STRAP, Connecting	1	
100	32Q2031	• DECAL, (Caution)	1	
FOLLOWING ITEMS ARE NOT ILLUSTRATED				
101	570H62	• BLOCK, Insulation	1	
102	20Q260D270	• SCREW, Hex hd cap 3/8-16UNC x 3-3/4 in lg	2	
103	R42203D1	• COVER, RTD Drive end access	1	
104	20Z1703D29	• SCREW, Flange locking 1/4-20UNC x 3/8 in lg	4	



MOTOR, ELECTRIC



F1310A



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
	EBM1154F1	MOTOR, ELECTRIC (Dwg 5100A1327F4)		
01	20Q260D412	• SCREW, Hex Hd Cap 5/8-11UNC x 4 in	6	
02	3616V013	• WASHER, Lock 5/8 in	28	
03	518F317F1	• SLINGER, Grease	1	
04	0682V035	• • SCREW, Hex Skt Set 1/4-20UNC x 1/2 in (Not shown)	1	
05	572F921	• CAP, Bearing	1	
06	25Z732D20	• BEARING, Roller	1	
07	518F176	• SLINGER, Grease	1	
08	20Q260D404	• SCREW, Hex Hd Cap 5/8-11UNC x 2 in	16	
09	3631V011	• WASHER, Plain 5/8 in	2	
10	19Z8D115	• PIN, Roll 1/4 x 1-1/2 in	2	
11	572E1713	• HEAD, Front	1	
12	572F920	• CAP, Bearing	1	
13	44Z1D10	• FITTING, Lube 1/8	1	
14	520H824D2	• PIPE, Special 1/4	1	
15	2419V092	• NIPPLE, Pipe 3/8 x 7-1/2 in	1	
16	2408V003	• COUPLING, Pipe 3/8	1	
17	2446V503	• PLUG, Pipe 3/8 Square Head	2	
18	573F279D2	• CLAMP, Brush Holder	4	
19	573F294	• INSULATOR, Brush Holder	1	
20	579H709	• STRAP, Ground	4	
21	3616V011	• WASHER, Lock 1/2 in	14	
22	20Q260D330	• SCREW, Hex Hd Cap 1/2-13UNC x 2 in	8	
23	9573F73F39	• HOLDER ASSEMBLY, Brush, RH	2	11-7
	9573F73F40	• HOLDER ASSEMBLY, Brush, LH	2	11-8
24	73Q2D38	• BRUSH	20	
25		NOT USED		
26	3632V004	• WASHER, Plain 3/8 in	12	
27	3616V009	• WASHER, Lock 3/8 in	14	
28	20Q270D24	• NUT, Hex 3/8-16UNC	8	
29	20Q260D265	• SCREW, Hex Hd Cap 3/8-16UNC x 2-1/2 in	4	
30	579H631D5	• STRAP, Flexible, 8 in	2	
31	579H631D4	• STRAP, Flexible, 6 in	2	
32	20Z1703D100	• SCREW, Flanged Lock 1/2-13UNC x 1-3/4 in	6	
33	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	10	
34	579F560	• CONNECTOR, Cross, Brush Holder	1	
35		NOT USED		



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
36	579F559	• CONNECTOR, Cross, Brush Holder	1	
37	20Q260D328	• SCREW, Hex hd cap 1/2-13UNC x 1-1/2 in	4	
38	9571E387F2	• FIELD RING ASSEMBLY	1	11-14
39	587A11F1	• BOX, Terminal	1	
40	20Z1703D30	• • SCREW, Flanged Lock 1/4-20UNC x 1/2 in	10	
41	79Z726D8	• BLOCK, Terminal	1	
42	2136V005	• NUT, Hex #10-24UNC	2	
43	3616V005	• WASHER, Lock #10	2	
44	0862V096	• SCREW, Pan Hd Mach #10-24UNC x 1/2 in	2	
45	32Z2270D1	• DECAL, Danger	2	
46	2063V003	• NUT, Hex Jam 3/8-16UNC	8	
47	3631V007	• WASHER, Plain 3/8 in	2	
48	520H746	• STUD, Brass	2	
49	205860075	• CABLE, Lead #4	AR	
50	79Z1040D2	• INSULATOR	2	
51	20Q260D255	• SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	6	
52	20Z1703D67	• SCREW, Flanged Lock 3/8-16UNC x 3/4 in	2	
	20H1687D10	• SCREW, Thumb	16	
53	79U2522D34	• TERMINAL, Solderless	4	
54	20Z1704D5	• NUT, Locking Flange 3/8-16UNC	2	
55	20Z1703D68	• SCREW, Flanged Lock 3/8-16UNC x 7/8 in	4	
56	9579E71F1	• STRAP, Insulated Connecting	2	
57	79Z1040D4	• INSULATOR	4	
58	579H760	• STRAP, Connecting	1	
59		• DECAL, Danger	1	
60		• DECAL, Warning	1	
61	532H567	• NAMEPLATE	1	
62	20Z42D5	• SCREW, Drive #8 x 3/8 in	4	
63	532H594	• PLATE, Lube Instruction	1	
64	20Z42D2	• SCREW, Drive #4 x 1/4 lg	4	
65	32Q2031	• DECAL, Notice	1	
66	80Z112D8	• HEATER	4	
67	20Q270D16	• NUT, Hex 1/4-20UNC	8	
68	3616V007	• WASHER, Lock 1/4 in	8	
69	3631V005	• WASHER, Plain 1/4 in	8	
70	20Q260D201	• SCREW, Hex Hd Cap 1/4-20UNC x 2-1/2 in	8	
71	205860059	• CABLE, Lead #12	AR	



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
72	79U2522D16	• TERMINAL, Solderless	14	
73	514F1422	• COVER	4	
74	520H915	• • GASKET, Cover (Not shown)	1	
75	518H1112	• SPACER	1	
76	81937-1	• ARMATURE ASSEMBLY (Dwg 5100E1278F1)	1	
77	9577E116F1	• • COMMUTATOR ASSEMBLY	1	
78	9510E19F47	• • SHAFT AND CORE ASSEMBLY	1	
79	510E1969F1	• • • SHAFT ASSEMBLY	1	
80	18Z2D14	• • • • RING, Snap	1	
81	510E1969	• • • • SHAFT	1	
82	20H2984D24	• • • • KEY, 1/2 x 1/2 x 3 lg	1	
83	20H2989D177	• • • • KEY, 5/8 x 7/16 x 22-1/8 lg	1	
84	18Z1D22	• • • • WASHER, Bearing Lock	1	
85	20Z3D22	• • • • NUT, Bearing Lock	1	
86	572F922	• CAP, Bearing	1	
87	518F290	• SLINGER, Grease	1	
88	R26054D1	• BEARING, Spherical Roller	1	
89	572E1712	• HEAD, Rear	1	
90	518F342	• SLINGER, Grease	1	
91	572F923	• CAP, Bearing	1	
92	518F343F1	• SLINGER, Grease	1	
93	20Q264D192	• • SCREW, Set 1/4-20UNC x 3/4 in (Not shown)	2	
94	20Q260D415	• SCREW, Hex Hd Cap 5/8-11UNC x 5 in	6	
95	2422V011	• PLUG, Countersunk 1/8 in	1	
96	44Z206D7	• ELBOW, Street 1/8 x 90 deg	1	
97	2416V001	• ELBOW, Street 1/8 x 45 deg	1	
98	44Z826D1	• REDUCER, Pipe 1/4 x 1/8	1	
99	89Q136D2	• DETECTOR, Temperature, Resistance	2	
100	89Z861	• FITTING, Compression	2	
101	85Z9D1	• CLAMP, Cable	2	
102	89Z862	• HEAD ASSEMBLY, Thermocouple Junction	2	
103	2420V107	• NIPPLE, Pipe 1/2 x 2-1/2 in	1	
104	2420V109	• NIPPLE, Pipe, 1/2 x 3 in	1	
--	R40736D1	• COVER, RTD Access (Not Shown)	1	
	20Z1703D30	• SCREW, Flange locking 1/4-20UNC x 1/2 in (Not Shown)	4	
	32Q1801D1	• DECAL, Warning (Not Shown)	5	
	32Q1810D1	• SIGN, Hazardous Voltage (Not Shown)	1	



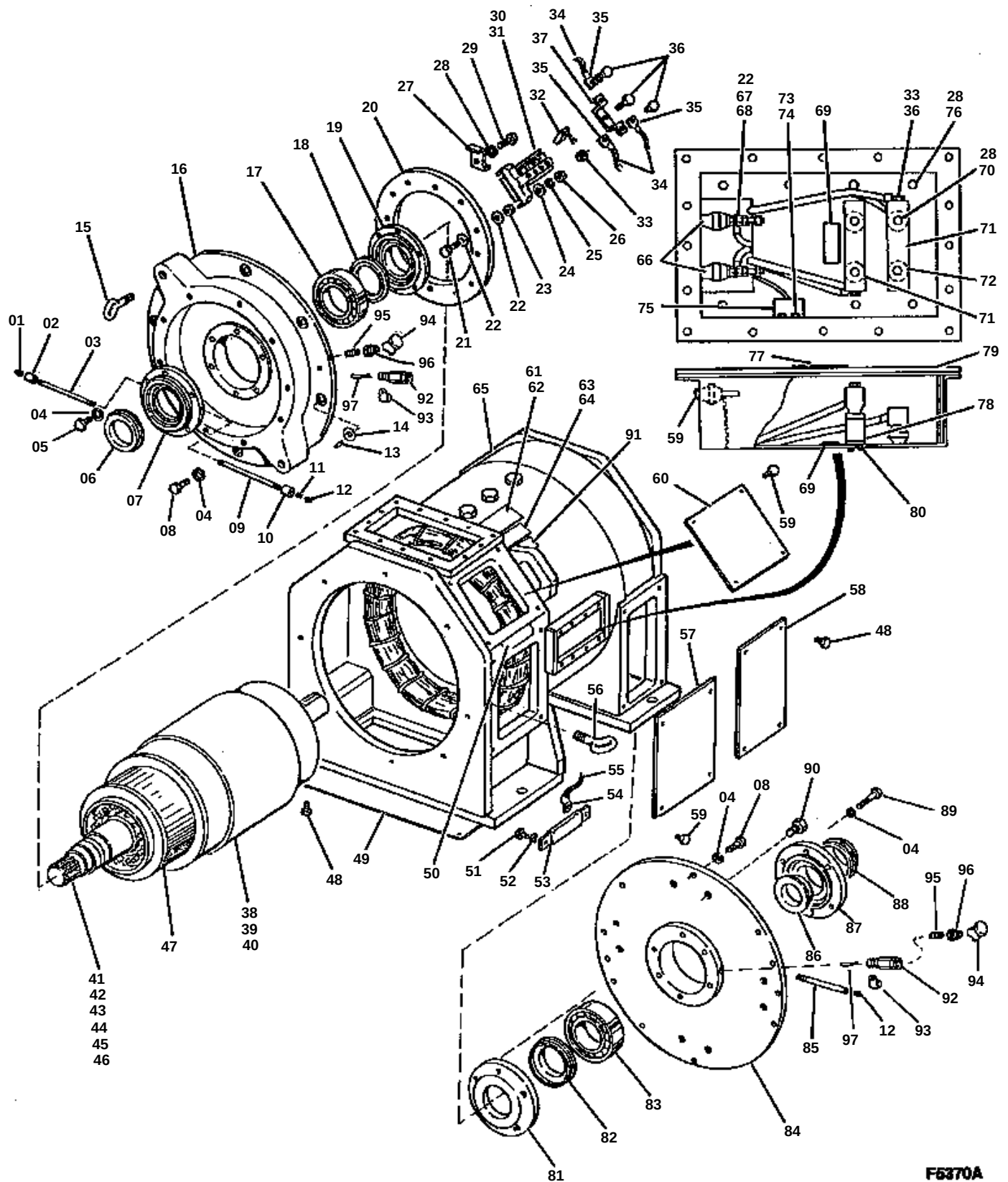
Machine
Serial Number: **4184**

MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
--	32Q1780D3	· DECAL, Voltage Notice (Not Shown)	1	
	32Q1805D58	· DECAL, Voltage - 600 v (Not Shown)	1	
	32Q1764D1	· DECAL, Caution Rotating Parts (Not Shown)	4	



MOTOR, ELECTRIC



F5370A



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
	EBM1153F1	MOTOR, ELECTRIC (Dwg R7264F2)		
01	2446V503	• PLUG, Head Pipe 3/8 sq in	2	
02	2409V003	• COUPLING, 3/8 in	2	
03	2420V101	• NIPPLE, 3/8 x 12 in lg	1	
04	3616V013	• WASHER, Lock 5/8 in	28	
05	20Q260D412	• SCREW, Hex Hd Cap 5/8-11UNC x 4 in	6	
06	518F317F1	• GREASE SLINGER, Front Outer	1	
07	572F884	• BEARING CAP, Front Outer	1	
08	20Q260D404	• SCREW, Hex Hd Cap 5/8-11UNC x 2 in	16	
09	2420V068	• NIPPLE, Pipe 1/4 x 12 in lg	1	
10	2409V002	• COUPLING, Pipe 1/4 in	1	
11	2402V001	• BUSHING, 1/4 x 1/8 in	1	
12	44Z1D10	• FITTING, Lube 1/8 in	2	
13	19Z8D115	• PIN, Roll 1/4 x 1-1/2 in	2	
14	3631V011	• WASHER, Plain 5/8 in	2	
15	20Z480D20	• EYE, Bolt	2	
16	R18056D1	• HEAD-MOTOR, Front	1	
17	25Z732D20	• BEARING, Cylinder Roller	1	
18	518F176	• GREASE SLINGER, Front Inner	1	
19	572F579	• BEARING CAP, Front Inner	1	
20	573F240	• INSULATOR, Brush Holder	1	
21	20H3531D61	• BOLT, Hex Hd Tap 3/8-16UNC x 2-1/4 in lg	8	
22	3631V007	• WASHER, Plain 3/8 in	18	
23	20Q272D24	• NUT, Hex 3/8-16UNC	8	
24	3632V004	• WASHER, Plain 3/8 in	8	
25	3616V009	• WASHER, Lock 3/8 in	8	
26	20Q270D24	• NUT, Hex 3/8-16UNC	8	
27	579H718	• STRAP, Ground	4	
28	3616V011	• WASHER, Lock 1/2 in	20	
29	20Q260D330	• SCREW, Hex Hd Cap 1/2-13UNC x 2 in	4	
30	9573F80F17	• BRUSH HOLDER ASSEMBLY	2	11-9
31	9573F80F18	• BRUSH HOLDER ASSEMBLY	2	11-10
32	73Q2D5	• BRUSH	16	
33	20Z1704D5	• NUT, Locking Flange 3/8-16UNC	6	
34	205860086	• CABLE, Lead #3/0	AR	
35	79U2522D52	• TERMINAL, Solderless	4	
36	20Z1703D69	• SCREW, Flanged Lock 3/8-16UNC x 1 in	10	



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	579H654	· CONNECTOR	2	
38	81901-1	· ARMATURE ASSEMBLY (Dwg 5100E1234F2)	1	
39	9510E19F50	· · SHAFT AND CORE ASSEMBLY	1	
40	576F1646D13	· · · CORE, Armature	1	
41	R7114D1F1	· · · SHAFT ASSEMBLY	1	
42	20H2984D24	· · · · KEY, 1/2 X 1/2 X 3	1	
43	20H2989D177	· · · · KEY, 5/8 X 7/16 X 22-1/8	1	
44	18Z1D22	· · · · LOCKWASHER, Bearing	1	
45	20Z3D22	· · · · LOCKNUT, Bearing	1	
46	18Z2D14	· · · · RING, Snap	1	
47	9577E53-8	· · COMMUTATOR ASSEMBLY	1	
48	20Z1703D51	· SCREW, Flanged Lock 5/16-18UNC x 3/4 in	12	
49	514F1171	· COVER	1	
50	32Z2270D1	· DECAL, Danger	2	
51	20Z41D5	· SCREW, Thread Forming 1/4 x 3/4 in lg	8	
52	3616V007	· WASHER, Lock 1/4 in	8	
53	80Z112D8	· HEATER	4	
54	79U2522D16	· TERMINAL, Solderless	16	
55	205860059	· CABLE, Lead #12	AR	
56	20Z480D21	· EYE, Bolt	2	
57	R25514D1	· COVER, Transparent (Not as shown)	2	
58	514F1335	· COVER	2	
59	20Z1703D67	· SCREW, Flanged Lock 3/8-16UNC x 3/4 in	18	
60	R7401F1	· COVER	2	
61	532H567	· NAMEPLATE	1	
62	20Z42D5	· SCREW, Drive #8 x 3/8 in lg	4	
63	532H594	· PLATE, Lube Instruction	1	
64	20Z42D2	· SCREW, Drive #4 x 1/4 in lg	4	
65	R7269F1	· FIELD RING ASSEMBLY	1	11-15
66	79Z1025D5	· INSULATOR	2	
67	520H746	· STUD, Brass	2	
68	2063V003	· NUT, Hex Jam Brass 3/8-16UNC	8	
69		· DECAL, (Danger)	1	
70	20Q260D323	· SCREW, Hex Hd Cap 1/2-13UNC x 3/4 in	8	
71	579H756	· CONNECTOR	2	
72	79Z1025D4	· INSULATOR	4	
73	20Z41D1	· SCREW, Forming Thread #10	4	

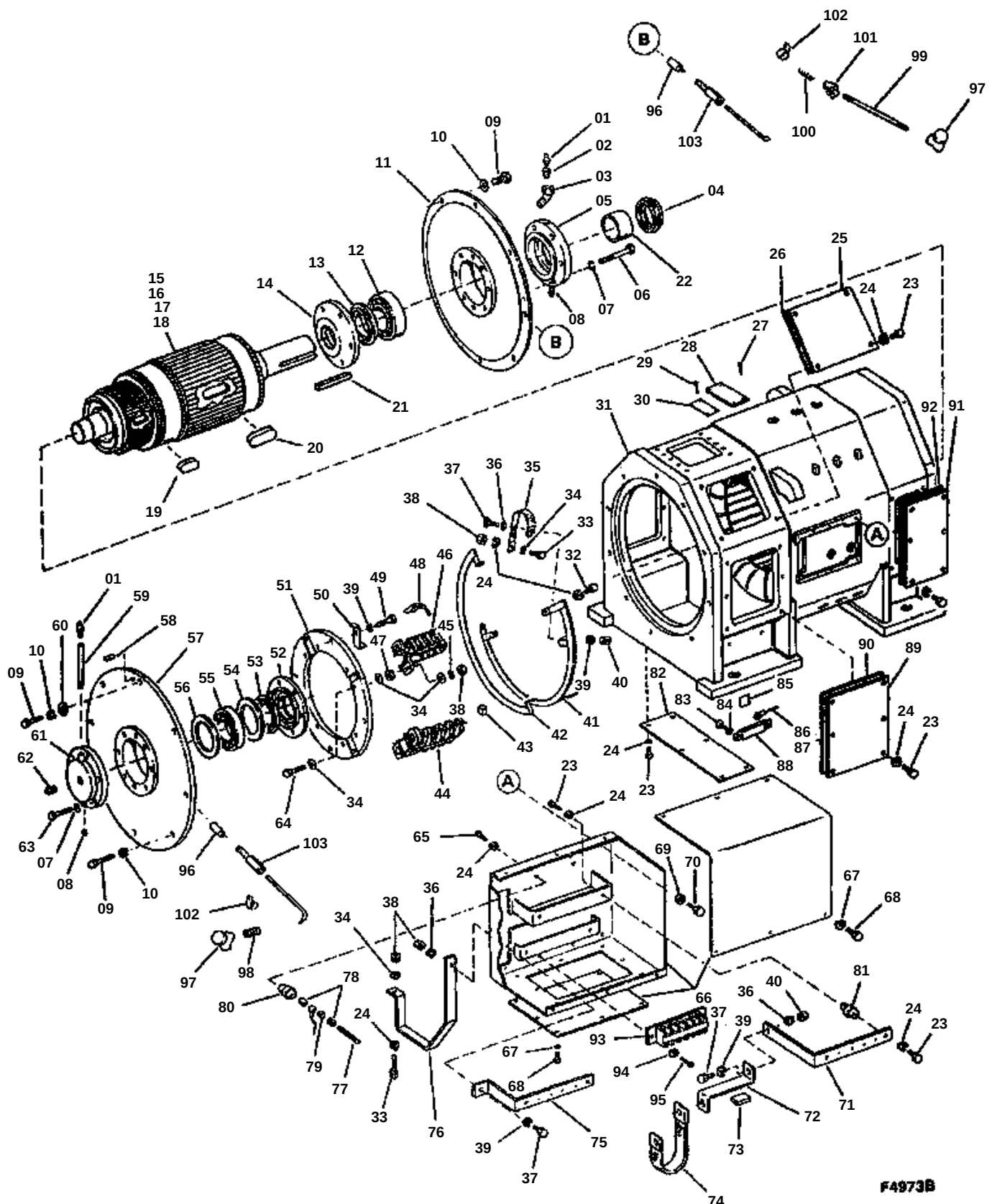


MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
74	3616V005	• WASHER, Lock #10	4	
75	79Z726D8	• TERMINAL, Block	1	
76	20Q260D325	• SCREW, Hex Hd Cap 1/2-13UNC x 1 in	8	
77		• DECAL, (Warning)	1	
78	516F168	• SUPPORT, Lead	1	
79	R7577D1F1	• BOX, Terminal	1	
80	20Z1703D32	• SCREW, Flanged Lock 1/4-20UNC x 3/4 in	4	
81	572F811	• BEARING CAP, Rear Inner	1	
82	518F290	• GREASE SLINGER, Rear Inner	1	
83	25Z755D13	• BEARING, Sph Cylinder Roller	1	
84	R18057D1	• HEAD-MOTOR, Rear	1	
85	520H824D2	• PIPE, Special 1/4 in	1	
86	518F327	• GREASE SLINGER, Rear Outer	1	
87	572F906	• BEARING CAP, Rear Outer	1	
88	518F261F1	• GREASE SLINGER, Rear Outer	1	
89	20Q260D415	• SCREW, Hex Hd Cap 5/8-11UNC x 5 in	6	
90	20Q260D535	• SCREW, Hex Hd Cap 1-8UNC x 2 in	8	
91	32Q2031	• DECAL, (Notice)	1	
92	89Z861	• FITTING, Compression	2	
93	85Z9D4	• CLAMP, Cable	2	
94	89Z862	• HEAD ASSEMBLY, Thermocouple Junction	2	
95	2420V038	• NIPPLE, Pipe 1/4 x 1-1/2 in	2	
96	2402V004	• BUSHING, Pipe 1/2 x 1/4	2	
97	89Q136D2	• DETECTOR, Temperature Resistance	2	
--	21Z587D2	• COMPOUND, Sealing (Not Shown)	AR	
	2420V093	• NIPPLE, 3/8 x 8 in lg (Not Shown)	1	
	32Q1801D1	• DECAL, Warning (Not Shown)	5	
	32Q1810D1	• SIGN, Hazardous Voltage (Not Shown)	1	
	32Q1780D3	• DECAL, Voltage Notice (Not Shown)	1	
	32Q1805D58	• DECAL, Voltage - 600 v (Not Shown)	1	
	32Q1764D1	• DECAL, Caution Rotating Parts (Not Shown)	4	



MOTOR, ELECTRIC



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MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
	EBM1155F1	MOTOR, ELECTRIC		
01	44Z1D10	· FITTING, Lubrication	2	
02	44Z826D1	· REDUCER, 1/4 - 1/8	1	
03	2417V001	· ELBOW, Street 1/8 x 45 deg	1	
04	518F305F1	· SLINGER, Grease	1	
05	572F997D1	· BEARING CAP, Outer Rear	1	
06	20Q260D415	· SCREW, Hex Hd Cap 5/8-11UNC x 5 in	6	
07	3616V013	· WASHER, Lock 5/8 in	12	
08	2446V502	· PLUG, Pipe Square Hd 3/8	2	
09	20Q260D448	· SCREW, Hex Hd Cap 3/4-10UNC x 2 in	20	
10	3616V015	· WASHER, Lock 3/4 in	20	
11	R11720D1	· HEAD, Rear	1	
12	25Z755D13	· BEARING, Roller	1	
13	518F290	· SLINGER, Grease	1	
14	572F998D1	· CAP, Bearing	1	
--	81923-2	· ARMATURE ASSEMBLY (5100E1261F2)	1	
15	9510E19F49	· · SHAFT AND CORE ASSEMBLY	1	
16	9577E89F6	· · · COMMUTATOR ASSEMBLY	1	
17	510A214F1	· · · SHAFT ASSEMBLY	1	
18	510A214	· · · · SHAFT	1	
19	20H2993D32	· · · · KEY, 3/4 x 1/2 x 4 in lg	1	
20	20H3001D144	· · · · KEY, 1 x 5/8 x 18 in lg	1	
21	20H3011D70	· · · · KEY, 1-1/4 X 1-1/4 X 8-3/4 in.	1	
22	518F304	· SPACER	1	
23	20Z1703D67	· SCREW, Fl. locking 3/8-16UNC x 3/4 in	70	
24	3616V009	· WASHER, Lock 3/8 in	2	
25	514H520	· COVER, Access	2	
26	520H889	· GASKET, Access Cover	1	
27	20Z42D5	· SCREW, Drive #8 x 3/8 lg	4	
28	532H567	· NAMEPLATE	1	
29	20Z42D2	· SCREW, Drive #4 x 1/4 lg	4	
30	532H594	· NAMEPLATE, Lubrication	1	
31	9571A134F3	· FIELD RING ASSEMBLY	1	11-16
32	20Z1703D69	· SCREW, Fl. locking 3/8-16UNC x 1 in	4	
33	20Z1703D69	· SCREW, Fl. locking 3/8-16UNC x 1 in	2	
34	18Z733D11	· WASHER, Internal Lock 3/8 in	8	
35	579H755	· STRAP, Flexible Interpole	1	



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
36		NOT USED		
37	20Z1703D97	• SCREW, Fl. locking 1/2-13UNC x 1 in	5	
38	20Q270D24	• NUT, Hex 3/8-16UNC	8	
	20Z1704D5	• NUT, Lock 3/8-16UNC	2	
39	3616V011	• WASHER, Lock 1/2 in	4	
40	20Z1704D9	• NUT, Lock 1/2-13UNC	5	
41	579F501	• CROSS CONNECTOR, Brush Holder	1	
42	579F500	• CROSS CONNECTOR, Brush Holder	1	
43	079941907	• SPACER, 1-1/4 x 1-1/2 x 2 in lg	3	
44	9573F80F37	• BRUSH HOLDER ASSEMBLY, R.H.	2	11-11
45	3632V004	• WASHER, Heavy Flat 3/8 in	24	
46	9573F80F38	• BRUSH HOLDER ASSEMBLY, L.H.	2	11-12
47	20Q272D24	• NUT, Hex 3/8-16UNC	8	
48	73Q14D17	• BRUSH	16	
49	20Q260D332	• SCREW, Hex Hd Cap 1/2-13UNC x 2-1/2 in	4	
50	579H718	• STRAP, Ground	4	
51	573F284	• INSULATOR, Brush Holder	1	
52	572F967	• CAP, Bearing	1	
53	518F169	• SLINGER, Grease	1	
54	570F87D2	• RING, Insulating	1	
55	25Z732D21	• BEARING, Roller	1	
56	570F87D1	• RING, Insulating	1	
57	9572A8F1	• HEAD, Front	1	
58	19Z8D115	• PIN, Roll	2	
59	520H733	• NIPPLE, Special Pipe 1/4	1	
60	3631V012	• WASHER, Light Plain 3/4 in	2	
61	572F924	• CAP, Bearing	1	
62	2421V005	• PLUG, Pipe Countersunk hd 3/4in	1	
63	20Q260D412	• SCREW, Hex Hd Cap 5/8-11UNC x 4 in	6	
64	20H3531D63	• BOLT, Hex Hd Tap 3/8-16UNC x 2-3/4	8	
65	20Q260D253	• SCREW, Hex Hd Cap 3/8-16UNC x 1/2 in	2	
66	R5777D1F1	• BOX, Terminal	1	
67	3616V007	• • WASHER, Lock 1/4 in	16	
68	20Q260D192	• • SCREW, Hex hd cap 1/4-20UNC x 3/4 in	16	
69	3616V008	• WASHER, Lock 5/16 in	8	
70	20Q260D225	• SCREW, Hex hd cap 5/16-18UNC x 7/8 in	8	
71	9579F129F1	• STRAP, Ins. Connector	1	



MOTOR, ELECTRIC

REF	PART NO.	DESCRIPTION	QTY	PAGE
72	579F539	• STRAP, Connecting	1	
73	87-5100A1401	• SPACER, 5/8 x 1-1/2 x 1-1/2 in lg	1	
74	579H631D2	• STRAP, Flexible Interpole	1	
75	9579F127F3	• STRAP, Ins. Connector	1	
76	579F540	• STRAP, Connecting	1	
77	520H746	• STUD, Brass	2	
78	2063V003	• NUT, Jam 3/8-16UNC	8	
79	3631V007	• WASHER, Light Plain 3/8 in	2	
80	79Z1040D2	• INSULATOR, Standoff	2	
81	79Z1040D3	• INSULATOR, Standoff	4	
82	514F1160	• COVER, Access	1	
83	20Z41D5	• SCREW, Hex Hd Tapping 1/4 x 3/4 in	8	
84	3616V007	• WASHER, Lock 1/4 in	8	
85	32Z2270D2	• LABEL, Heater	3	
86	201660059	• CABLE, Silastic #12	AR	
87	79U2522D16	• LUG, Terminal	14	
88	80Z112D15	• HEATERS	4	
89	R25515D1	• COVER, Access, Transparent (Not as shown)	2	
90		NOT USED		
91	514F1367	• COVER, Access	2	
92	520F99	• • GASKET, Access Cover	1	
93	79Z726D8	• BLOCK, Terminal	1	
94		NOT USED		
95	20Z1703D16	• SCREW, Fl. locking #10-24UNC x 3/8 in lg	2	
96	89Q136D2	• THERMOCOUPLE ASSEMBLY	2	
97	89Z862	• HEAD ASSEMBLY - Thermocouple Junction	2	
98	2420V102	• NIPPLE, Pipe 1/2 in close	2	
99	2451V119	• NIPPLE, Pipe 1/2 x 5-1/2 in lg	1	
100	2451V040	• NIPPLE, Pipe 1/4 x 2 in lg	1	
101	2411V504	• PIPE, Reducer 1/2-1/4	1	
102	85Z9D4	• CLAMP, Cable	2	
103	89Z861	• FITTING, Compression - Thermocouple Assembly	2	
NOTE---The following items are not shown:				
--	32Q2031	• DECAL, Caution	1	
	32Q1801D1	• DECAL, Warning	5	
	32Q1810D1	• SIGN, Hazardous Voltage	1	



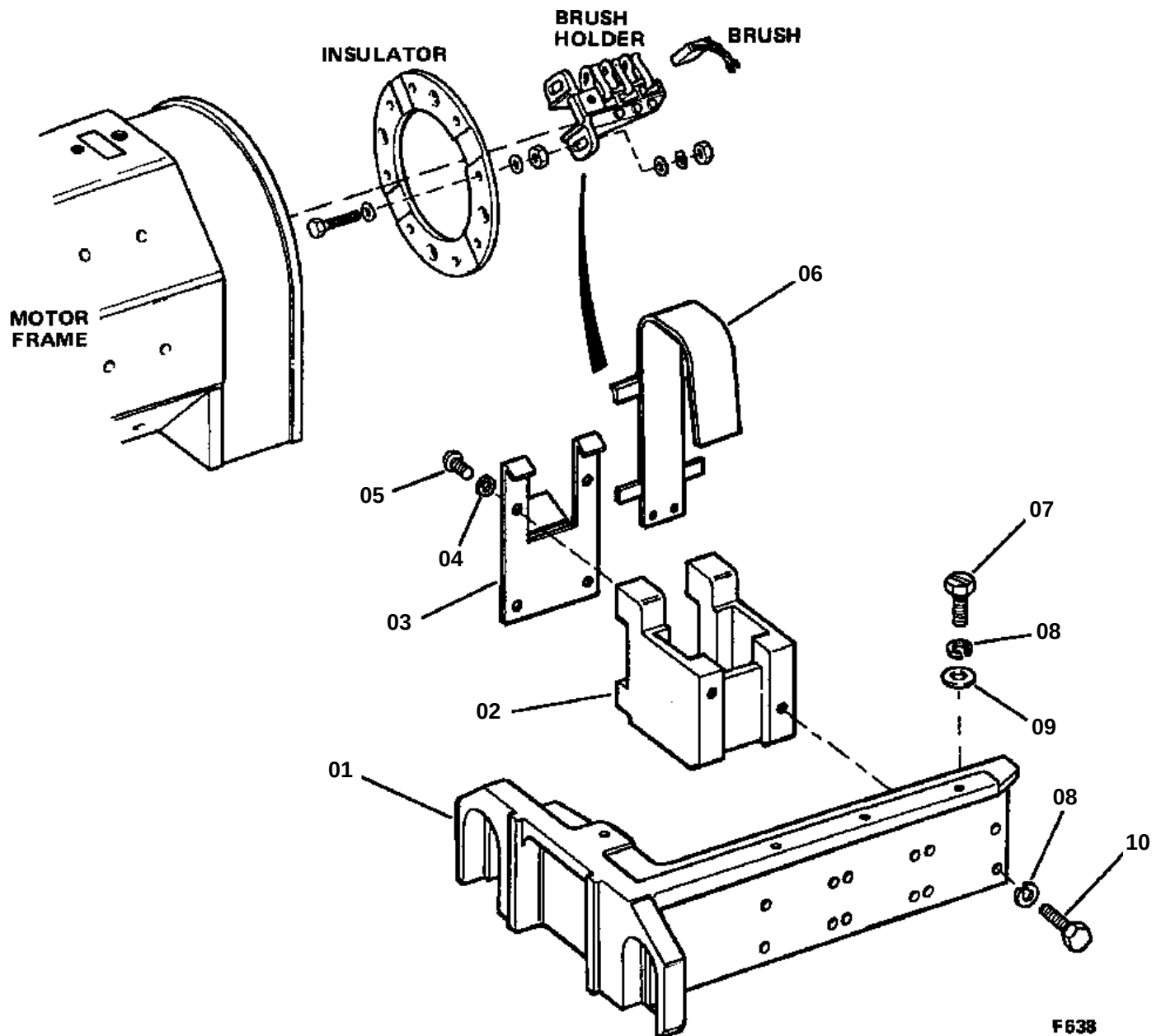
Machine Serial Number: 4184

MOTOR, ELECTRIC

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BRUSH HOLDER, MOTOR, RH

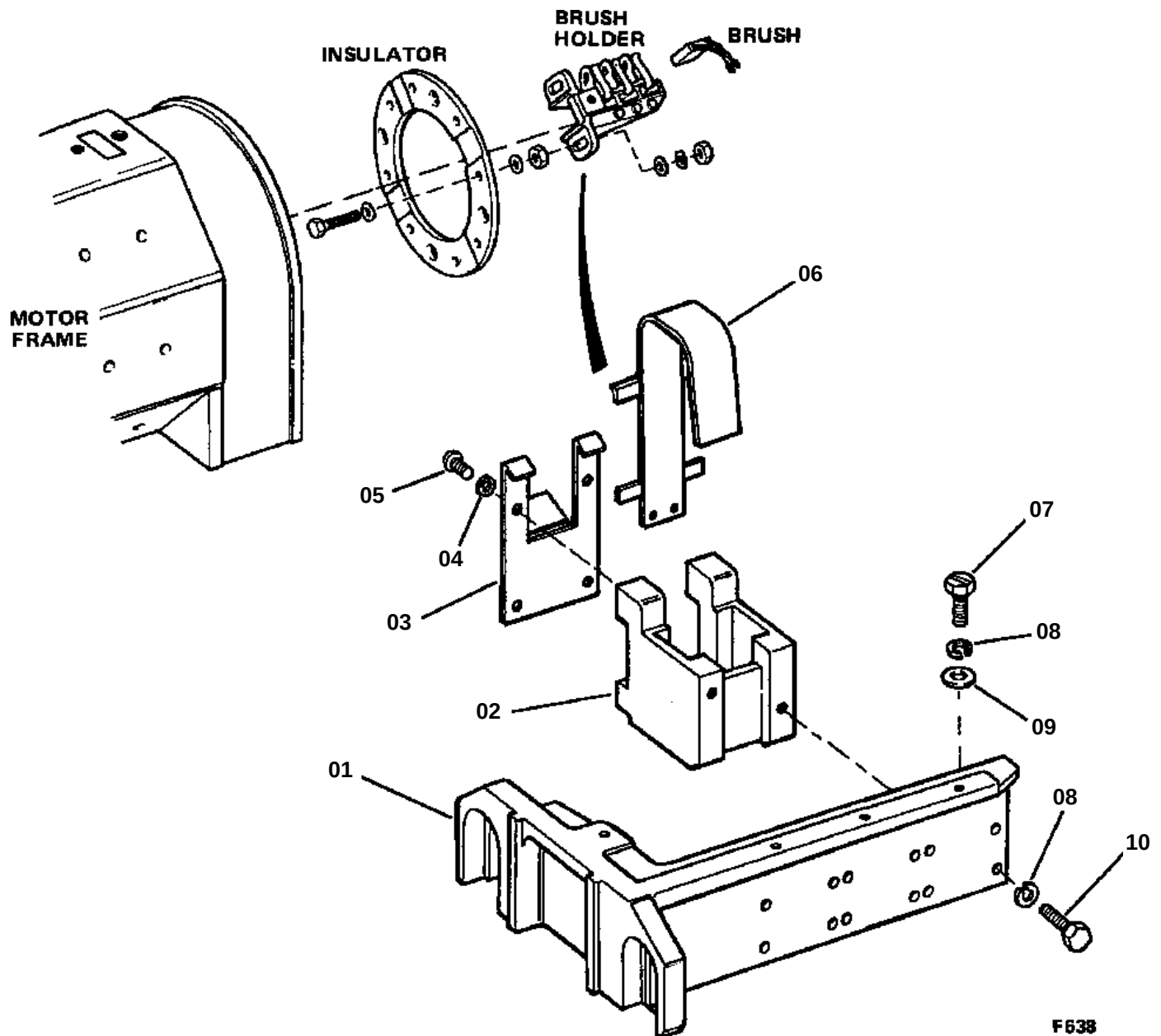


BRUSH HOLDER, MOTOR, RH

REF	PART NO.	DESCRIPTION	QTY
	9573F73F47	BRUSH HOLDER, MOTOR, RH	
01	573F208D3	· HOLDER, Brush	1
02	573F211C1	· BLOCK, Brush holder	5
03	517H84	· SUPPORT, Spring	5
04	3616V005	· WASHER, Lock #10	20
05	0860V073	· SCREW, Rd hd mach #10-24UNC x 3/8in	20
06	517F9D5	· SPRING, Brush holder	5
07	0746V109	· SCREW, Slotted hex hd mach 1/4-20UNC x 1/2	5
08	3616V007	· WASHER, Lock 1/4in	15
09	3628V004	· WASHER, Plain brass 1/4in	5
10	0846V122	· SCREW, Slotted hex hd cap 1/4-20UNC x 3/4in	10



BRUSH HOLDER, MOTOR, LH





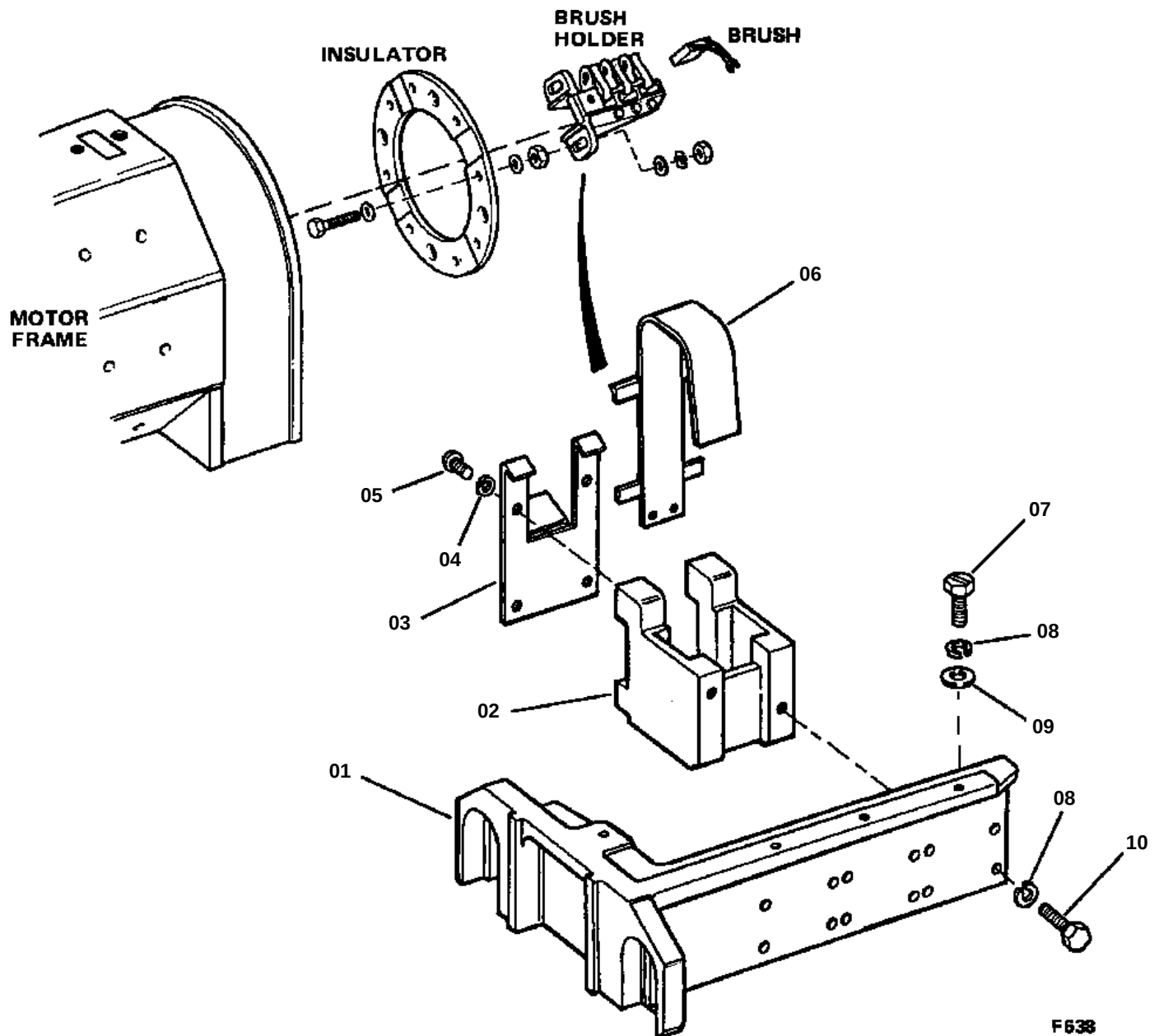
Machine
Serial Number: **4184**

BRUSH HOLDER, MOTOR, LH

REF	PART NO.	DESCRIPTION	QTY
	9573F73F48	BRUSH HOLDER, MOTOR, LH	
01	573F208D4	· HOLDER, Brush	1
02	573F211C1	· BLOCK, Brush holder	5
03	517H84	· SUPPORT, Spring	5
04	3616V005	· WASHER, Lock #10	20
05	0860V073	· SCREW, Rd hd mach #10-24UNC x 3/8in	20
06	517F9D5	· SPRING, Brush holder	5
07	0746V109	· SCREW, Slotted hex hd mach 1/4-20UNC x 1/2	5
08	3616V007	· WASHER, Lock 1/4in	15
09	3628V004	· WASHER, Plain brass 1/4in	5
10	0846V122	· SCREW, Slotted hex hd cap 1/4-20UNC x 3/4in	10



BRUSH HOLDER, MOTOR, RH





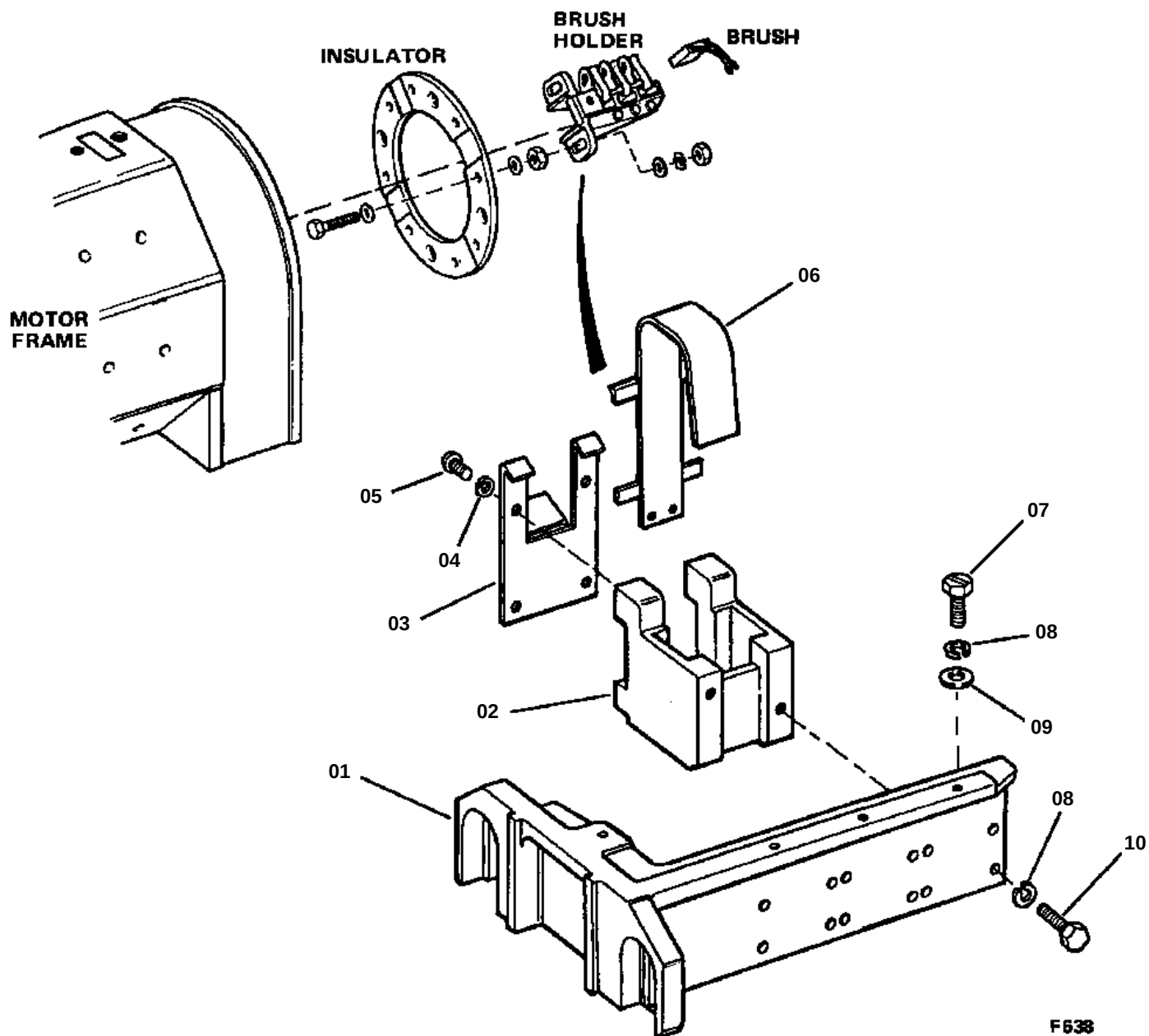
Machine
Serial Number: **4184**

BRUSH HOLDER, MOTOR, RH

REF	PART NO.	DESCRIPTION	QTY
	9573F73F39	BRUSH HOLDER, MOTOR, RH	
01	573F208D5	· BRUSH HOLDER, R H	1
02	573F253	· BLOCK, Brush	5
03	517H84	· SUPPORT, Spring	5
04	3616V005	· WASHER, Lock #10	20
05	0860V073	· SCREW, Slotted rd hd mach #10-24UNC X 3/8in	20
06	517F9D4	· SPRING, Brush holder	5
07	20Q260D189	· SCREW, Hex hd cap 1/4-20UNC X 1/2in	5
08	3616V007	· WASHER, Lock 1/4 in	15
09	3631V005	· WASHER, Plain 1/4 in	5
10	0846V122	· SCREW, Slotted hx hd mach 1/4-20UNC X 3/4in	10



BRUSH HOLDER, MOTOR, LH

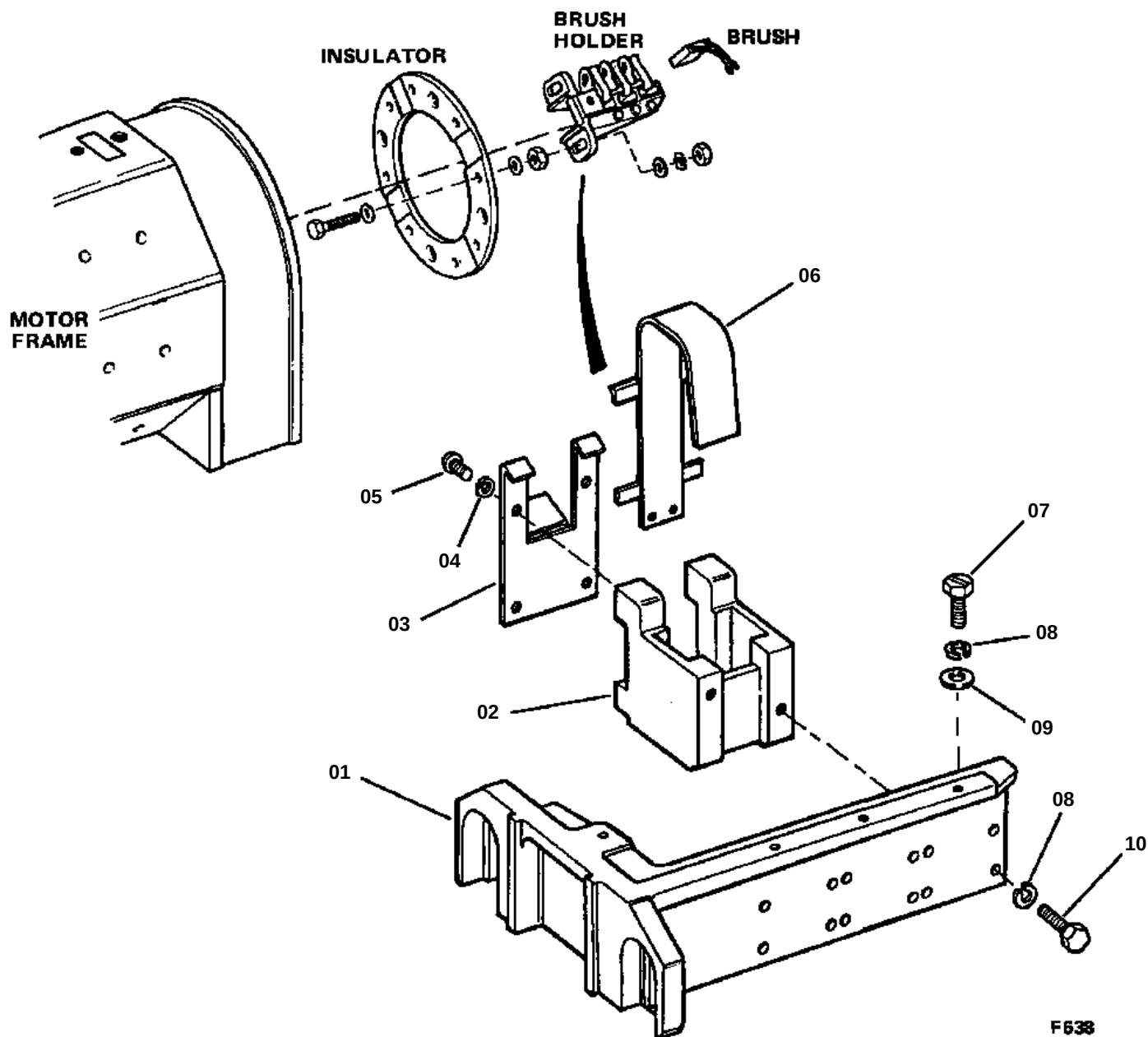


BRUSH HOLDER, MOTOR, LH

REF	PART NO.	DESCRIPTION	QTY
	9573F73F40	BRUSH HOLDER, MOTOR, LH	
01	573F208D6	· BRUSH HOLDER, L H	1
02	573F253	· BLOCK, Brush	5
03	517H84	· SUPPORT, Spring	5
04	3616V005	· WASHER, Lock #10	20
05	0860V073	· SCREW, Slotted rd hd mach #10-24UNC X 3/8in	20
06	517F9D4	· SPRING, Brush holder	5
07	20Q260D189	· SCREW, Hex hd cap 1/4-20UNC X 1/2in	5
08	3616V007	· WASHER, Lock 1/4 in	15
09	3631V005	· WASHER, Plain 1/4 in	5
10	0846V122	· SCREW, Slotted hx hd mach 1/4-20UNC X 3/4in	10



BRUSH HOLDER, MOTOR - R.H.





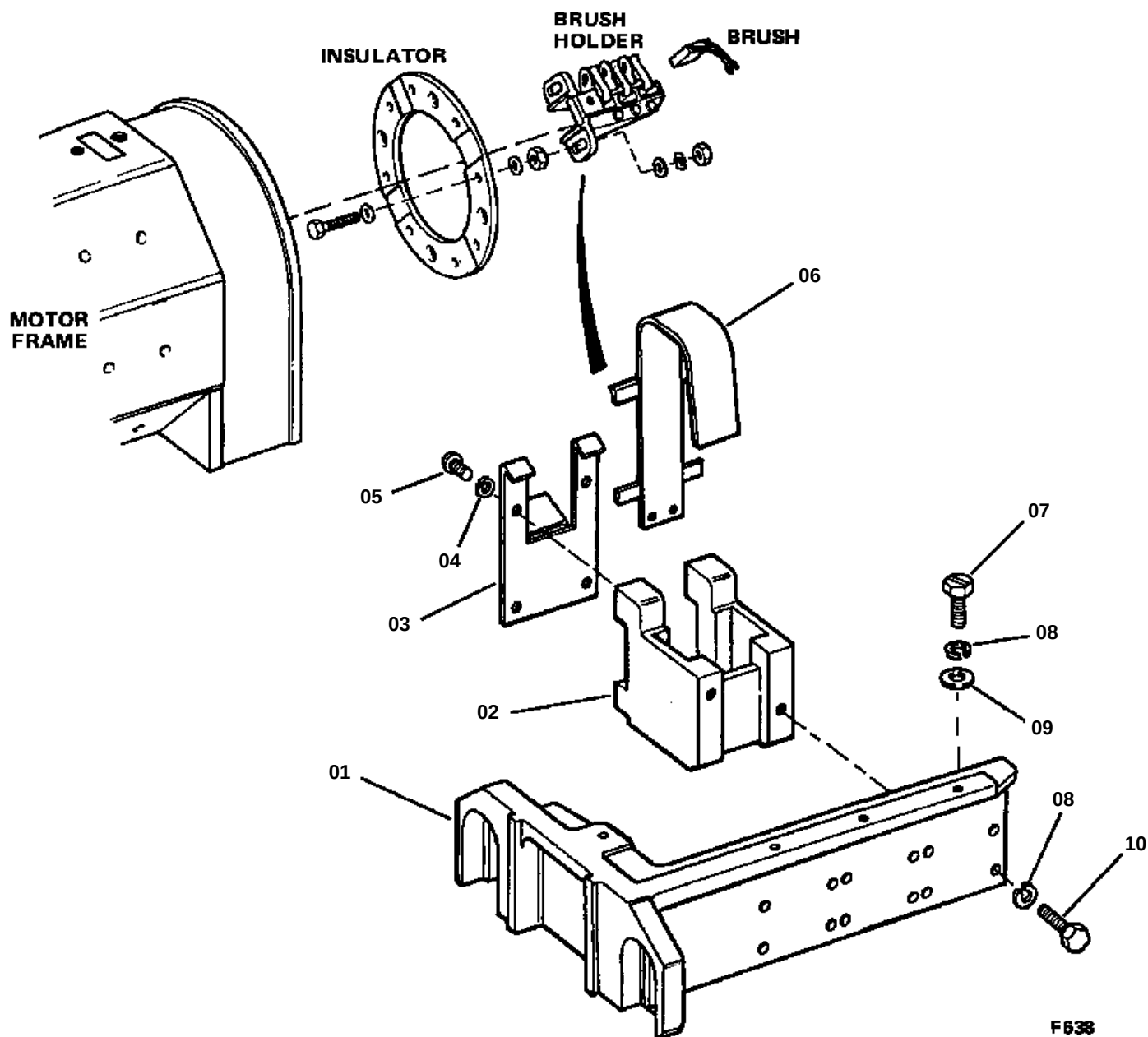
Machine
Serial Number: **4184**

BRUSH HOLDER, MOTOR - R.H.

REF	PART NO.	DESCRIPTION	QTY
	9573F80F17	BRUSH HOLDER, MOTOR - R.H.	
01	573F274D1	· BRUSH HOLDER, R.H.	1
02	573F237	· BLOCK, Brush	4
03	517H84	· SUPPORT, Spring	4
04	3661V005	· WASHER, Lock #10	16
05	0860V073	· SCREW, Slotted rd hd mach #10-24UNC X 3/8in	16
06	517F9D5	· SPRING, Brush holder	4
07	0746V109	· SCREW, Slotted hx hd mach 1/4-20UNC X 1/2in	4
08	3616V007	· WASHER, Lock 1/2 in.	12
09	3608V007	· WASHER, Flat brass 1/4 in.	4
10	0746V112	· SCREW, Slotted hx hd cap 1/4-20UNC X 3/4 in	8



BRUSH HOLDER, MOTOR - L.H.

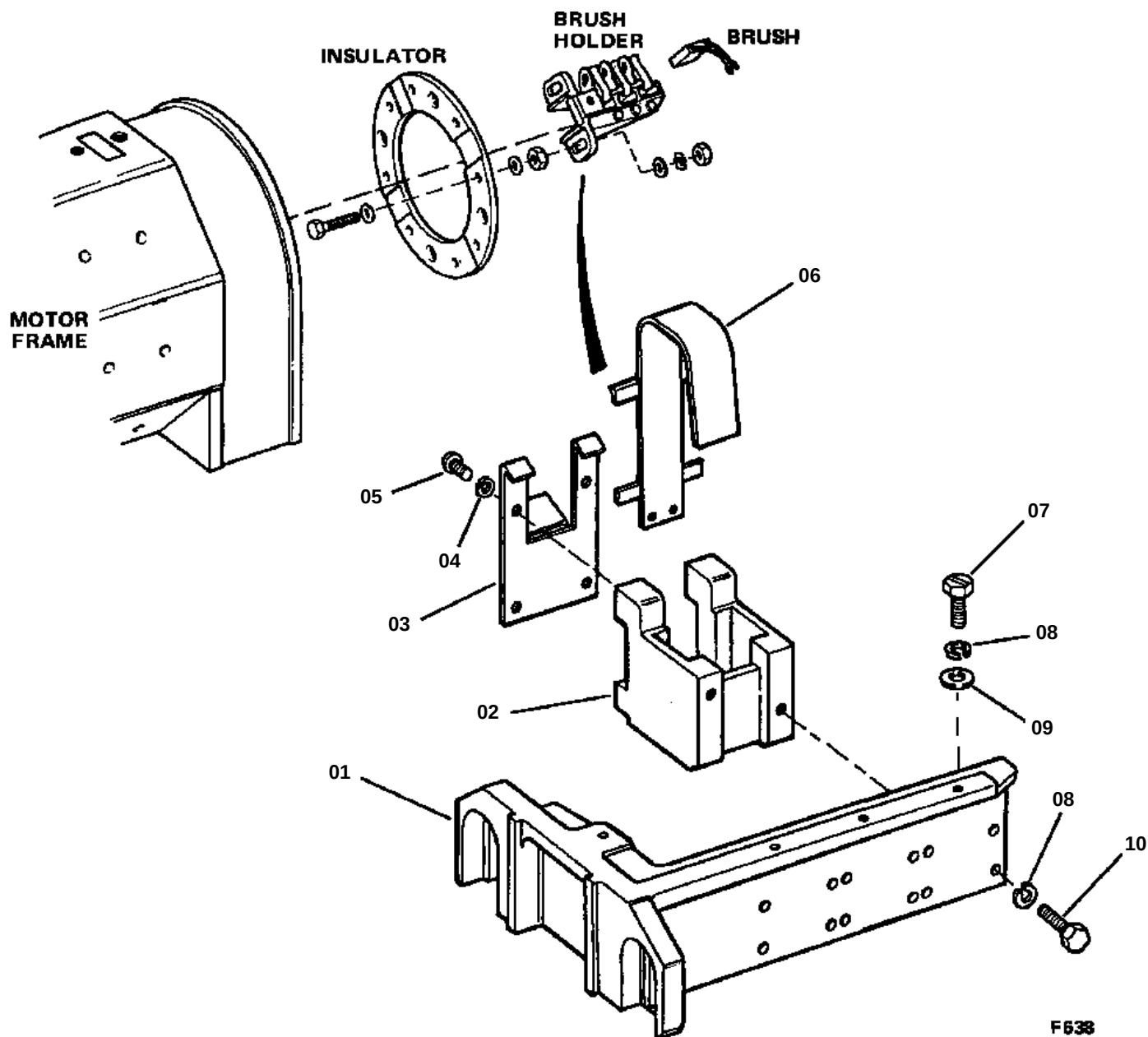


BRUSH HOLDER, MOTOR - L.H.

REF	PART NO.	DESCRIPTION	QTY
	9573F80F18	BRUSH HOLDER, MOTOR - L.H.	
01	573F274D2	• BRUSH HOLDER, L.H.	1
02	573F237	• BLOCK, Brush	4
03	517H84	• SUPPORT, Spring	4
04	3661V005	• WASHER, Lock #10	16
05	0860V073	• SCREW, Slotted rd hd mach #10-24UNC X 3/8in	16
06	517F9D5	• SPRING, Brush holder	4
07	0746V109	• SCREW, Slotted hx hd mach 1/4-20UNC X 1/2in	4
08	3616V007	• WASHER, Lock 1/2 in.	12
09	3608V007	• WASHER, Flat brass 1/4 in.	4
10	0746V112	• SCREW, Slotted hx hd cap 1/4-20UNC X 3/4 in	8



HOLDER, BRUSH - R.H.





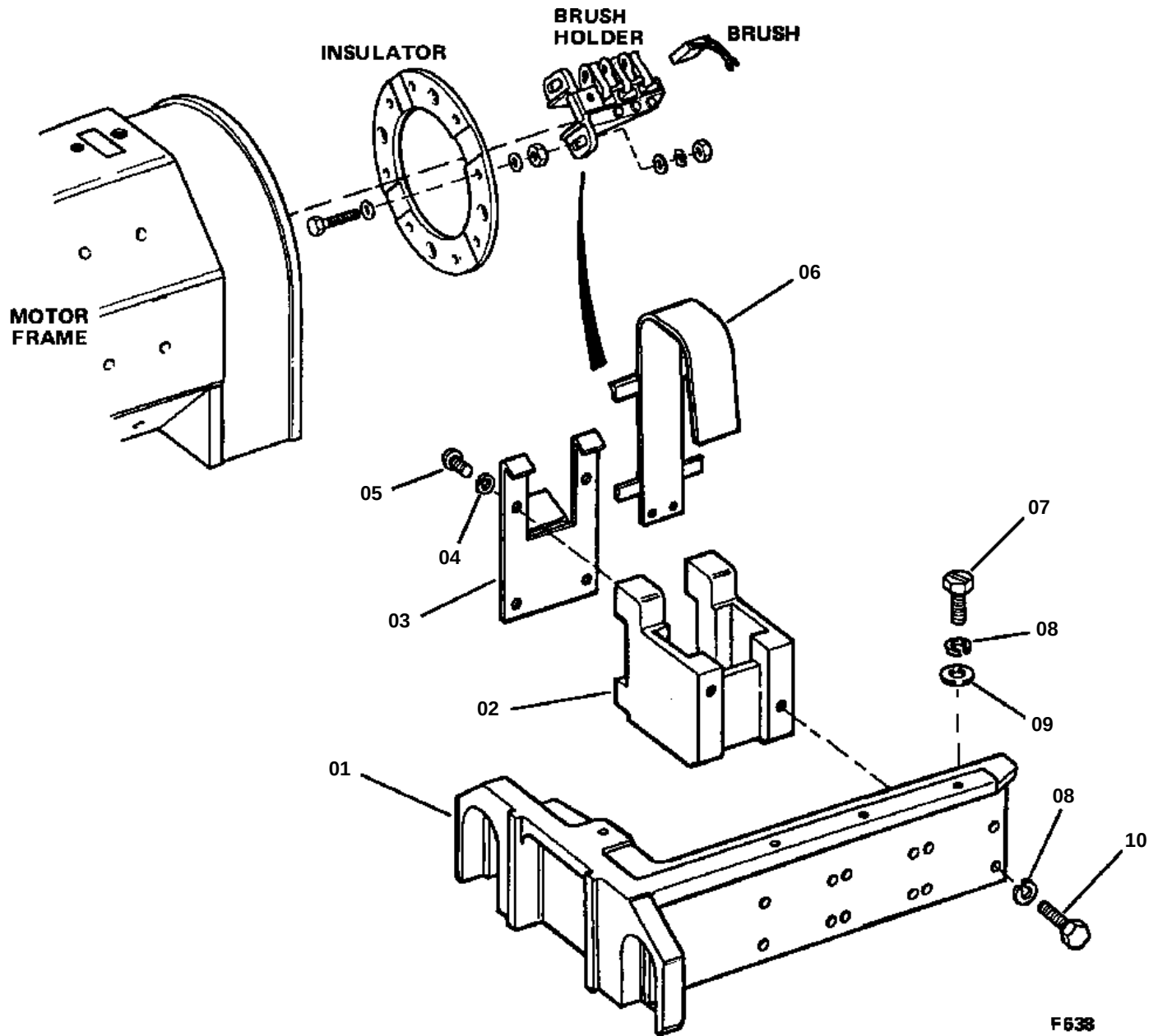
Machine
Serial Number: **4184**

HOLDER, BRUSH - R.H.

REF	PART NO.	DESCRIPTION	QTY
	9573F80F37	HOLDER, BRUSH - R.H.	
01	573F274D1	· BRUSH HOLDER, R.H.	1
02	573F253	· BLOCK, Brush	4
03	517H84	· SUPPORT, Spring	4
04	3661V005	· WASHER, Lock #10	16
05	0860V073	· SCREW, Slotted rd hd mach #10-24UNC X 3/8in	16
06	517F9D4	· SPRING, Brush holder	4
07	0746V109	· SCREW, Slotted hx hd mach 1/4-20UNC X 1/2in	4
08	3616V007	· WASHER, Lock 1/2 in	12
09	3608V007	· WASHER, Flat brass 1/4 in	4
10	0746V112	· SCREW, Slotted hx hd cap 1/4-20UNC X 3/4 in	8



HOLDER, BRUSH - L.H.

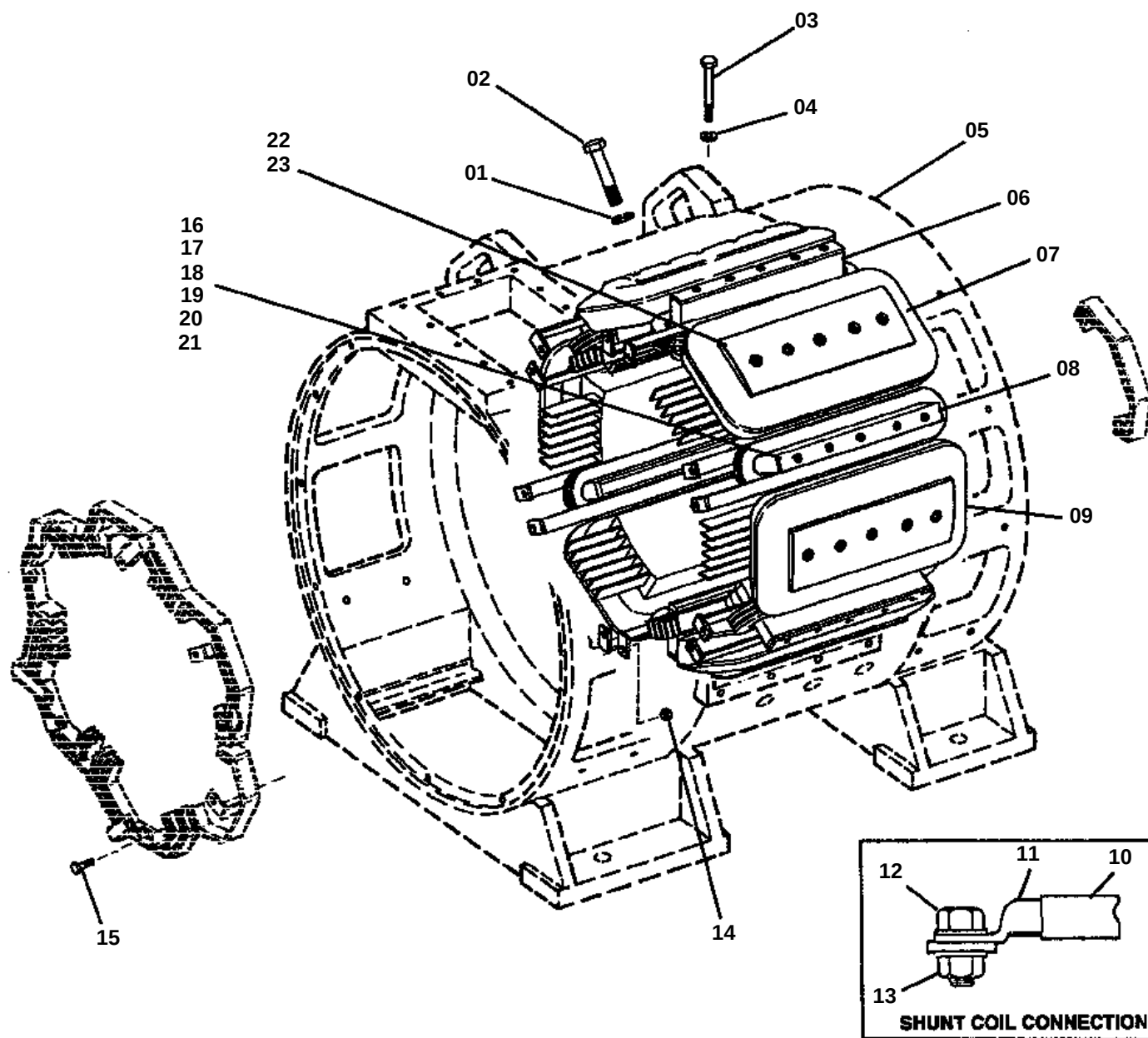


HOLDER, BRUSH - L.H.

REF	PART NO.	DESCRIPTION	QTY
	9573F80F38	HOLDER, BRUSH - L.H.	
01	573F274D2	· BRUSH HOLDER, L.H.	1
02	573F253	· BLOCK, Brush	4
03	517H84	· SUPPORT, Spring	4
04	3661V005	· WASHER, Lock #10	16
05	0860V073	· SCREW, Slotted rd hd mach #10-24UNC X 3/8in	16
06	517F9D4	· SPRING, Brush holder	4
07	0746V109	· SCREW, Slotted hx hd mach 1/4-20UNC X 1/2in	4
08	3616V007	· WASHER, Lock 1/2 in	12
09	3608V007	· WASHER, Flat brass 1/4 in	4
10	0746V112	· SCREW, Slotted hx hd cap 1/4-20UNC X 3/4 in	8



FIELD RING ASSEMBLY



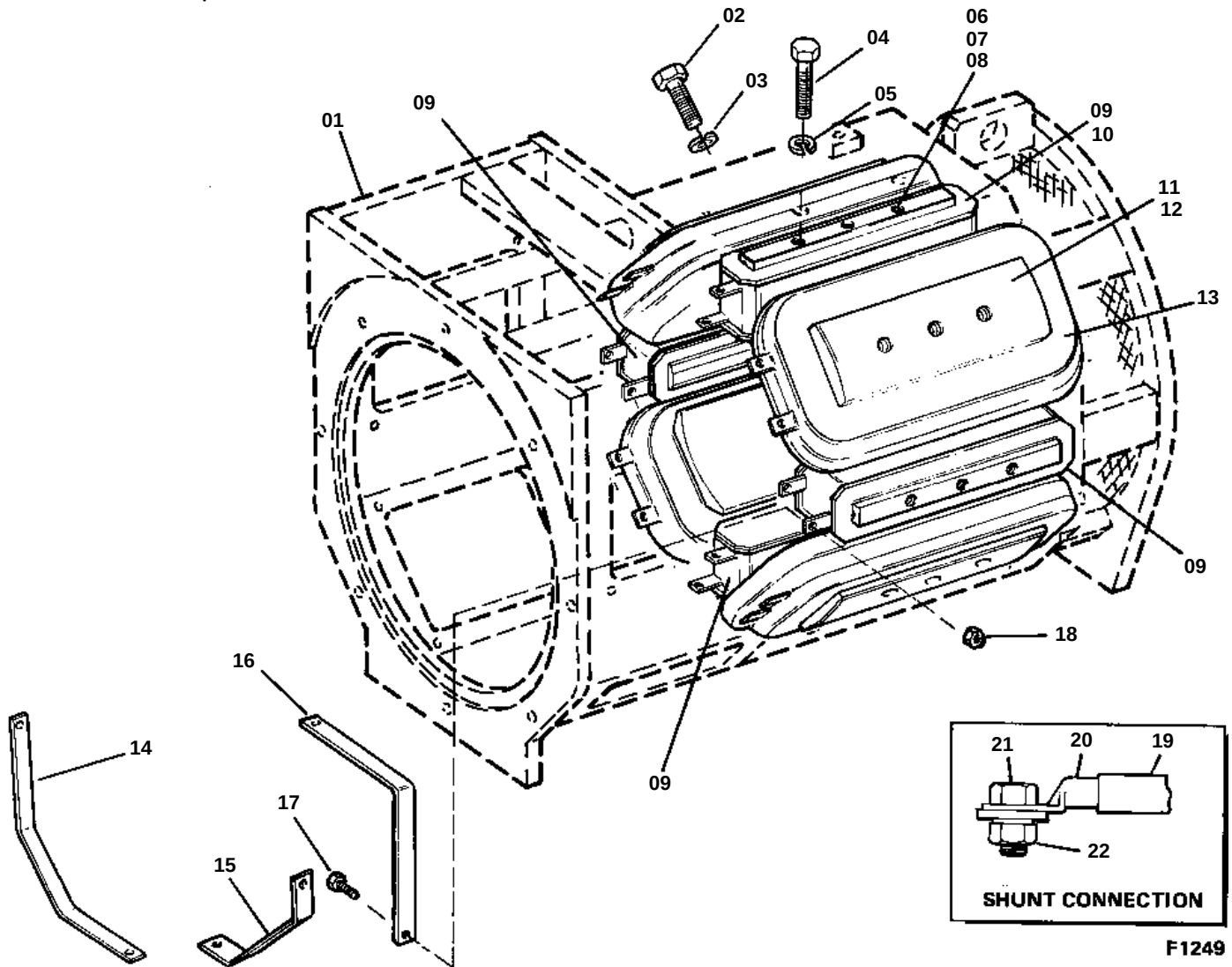
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FIELD RING ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	EBM1238F2	FIELD RING ASSEMBLY (Dwg R33189F1)	
01	3616V017	• WASHER, Lock 1 in	30
02	20Q327D546	• SCREW, Hex hd cap 1-8UNC x 5 in lg	30
03	20Z721D168	• SCREW, Hex hd cap 5/8-11UNC x 5-1/2 in lg	30
04	3616V013	• WASHER, Lock 5/8 in	30
05	R32228D1	• FRAME, Motor	1
06	R33213F2	• COIL, Interpole w/RTD's	1
07	R33443F1	• COIL, Shunt compensating w/RTD's	1
08	R33213F1	• COIL, Interpole	5
09	R33443F2	• COIL, Shunt compensating	5
10	201660078	• CABLE, Lead, single conductor #2	AR
11	79U2522D39	• TERMINAL, Solderless	12
12	20Z1703D67	• SCREW, Flange locking 3/8-16UNC x 3/4 in lg	12
13	20Z1704D5	• NUT, Flange locking 3/8-16UNC	12
14	20Z1704D9	• NUT, Flange locking 1/2-13UNC	10
15	20Z1703D99	• SCREW, Flange locking 1/2-13UNC x 1-1/2 in lg	10
16	520F59D1	• SHIM, Interpole (.015 in thick)	30
17	520F59D3	• SHIM, Interpole (.062 in thick)	12
18	520F59D4	• SHIM, Interpole (.125 in thick)	6
19	520F60D1	• SHIM, Interpole (.030 in thick)	12
20	520F60D2	• SHIM, Interpole (.015 in thick)	12
21	R33361D1	• SHIM, Interpole (.625 in thick)	6
22	520F61D11	• SHIM, Main pole (.060 in thick)	12
23	520F61D12	• SHIM, Main pole (.030 in thick)	12



FIELD RING ASSEMBLY

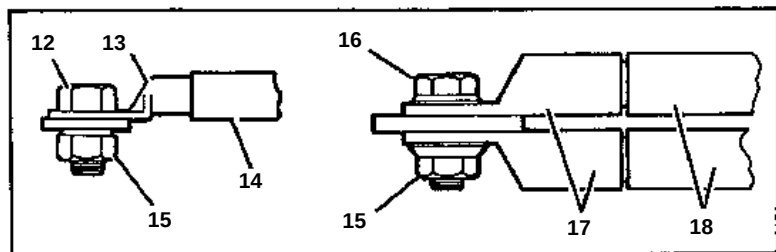
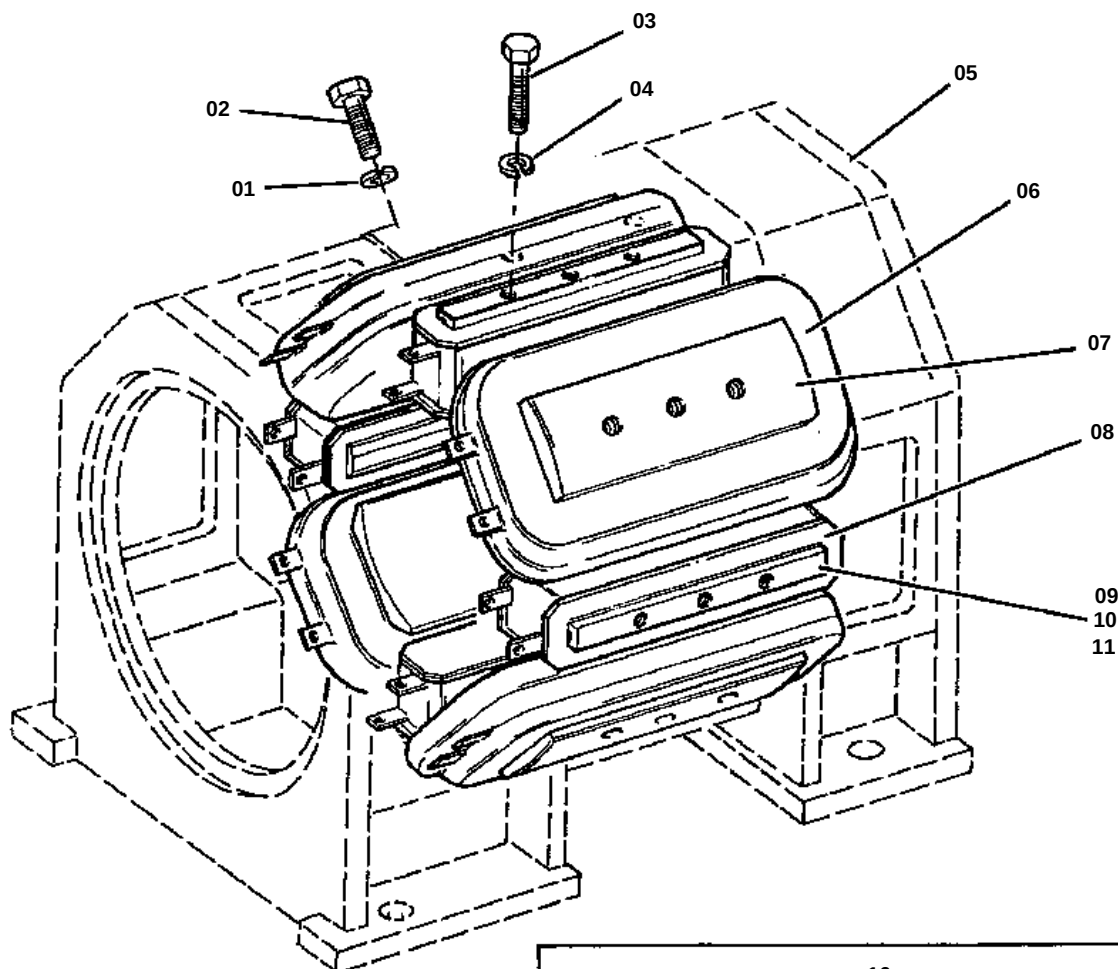


FIELD RING ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	9571E387F2	FIELD RING ASSEMBLY	
01	571A895	• FRAME	1
02	20Q327D543	• SCREW, Hex Hd Cap 1-8UNC x 4 in lg	16
03	3616V017	• WASHER, Lock 1 in	16
04	20Q327D453	• SCREW, Hex Hd Cap 3/4-10UNC x 3-1/4 in lg	12
05	3616V015	• WASHER, Lock 3/4 in	12
06	520F45D8	• SHIM, Interpole	AR
07	520F44D24	• SHIM, Interpole	AR
08	520F44D43	• SHIM, Interpole	AR
09	9575A83F1	• COIL, Interpole, without Resistance Temperature Detector	3
10	9575A83F2	• COIL, Interpole, with Resistance Temperature Detector	1
11	520F49D3	• SHIM, Main pole	AR
12	520F49D5	• SHIM, Main pole	AR
13	9575E1100F2	• COIL, Shunt	3
	9575E1100F4	• COIL, Shunt (w/RTD's)	1
14	579F534	• STRAP, Connecting	1
15	579F536	• STRAP, Connecting	1
16	579F535	• STRAP, Connecting	1
17	20Z1703D99	• SCREW, Flanged Lock 1/2-13UNC x 1-1/2 in lg	6
18	20Z1704D9	• NUT, Locking Flange 1/2-13UNC	6
19	205860075	• CABLE, 5 Ft	AR
20	79U2522D34	• TERMINAL, Solderless	6
21	20Z1703D67	• SCREW, Flanged Lock 3/8-16UNC x 3/4 in lg	6
22	20Z1704D5	• NUT, Locking Flange 3/8-16UNC	6



FIELD RING ASSEMBLY



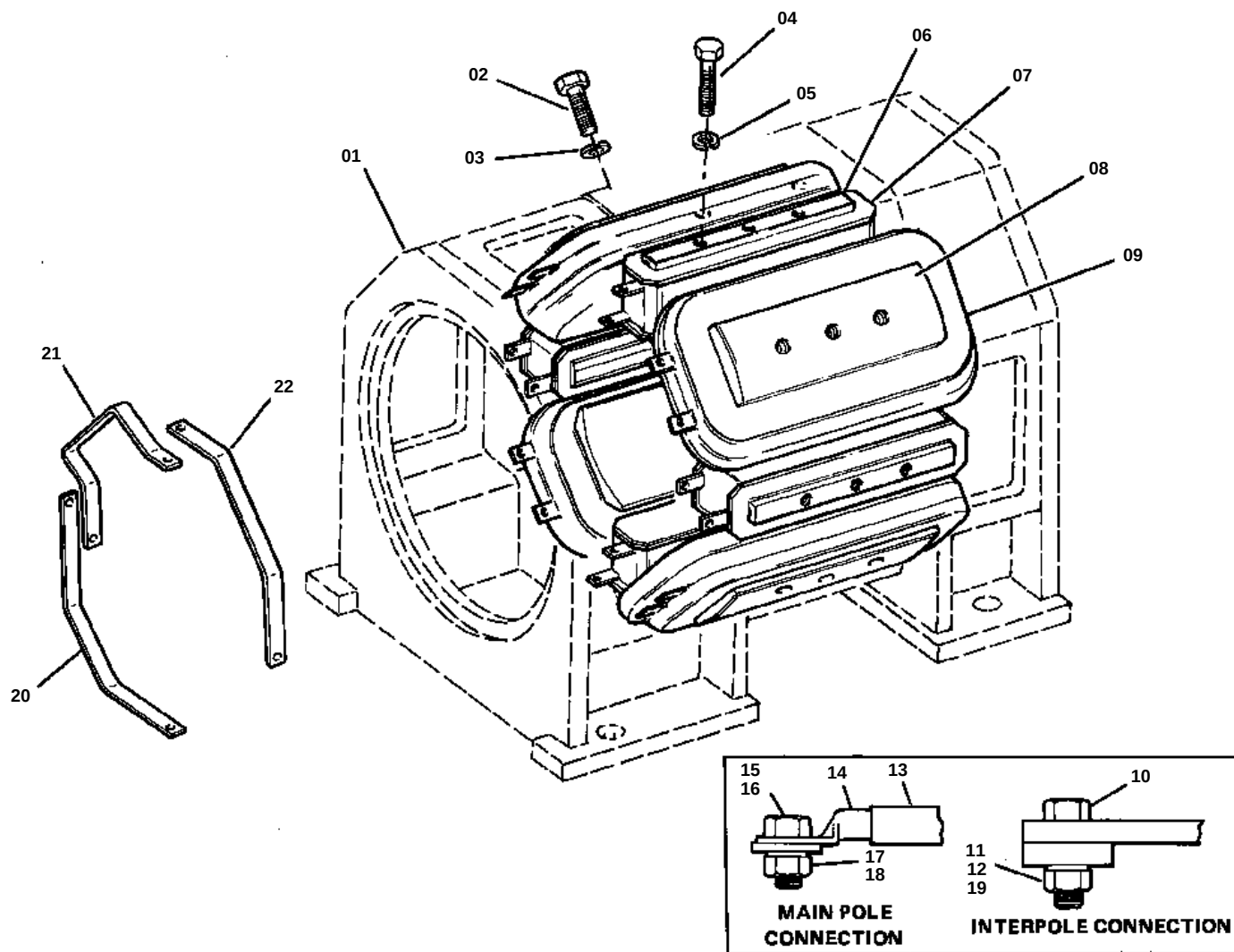
F5371

FIELD RING ASSEMBLY

[illegible]



FIELD RING



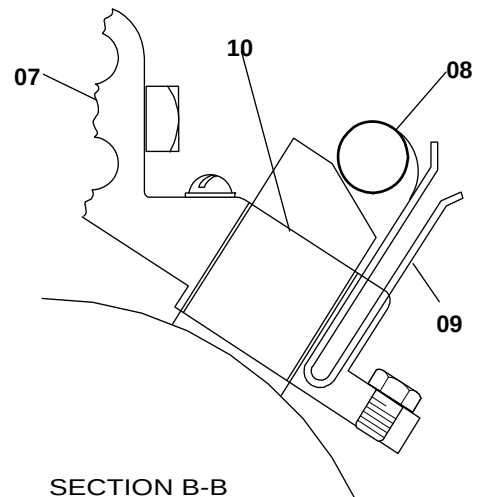
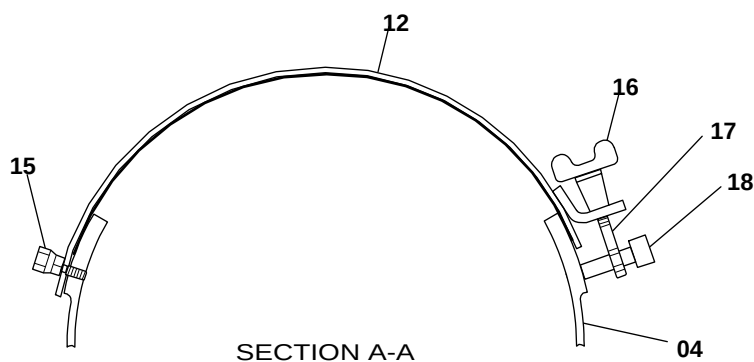
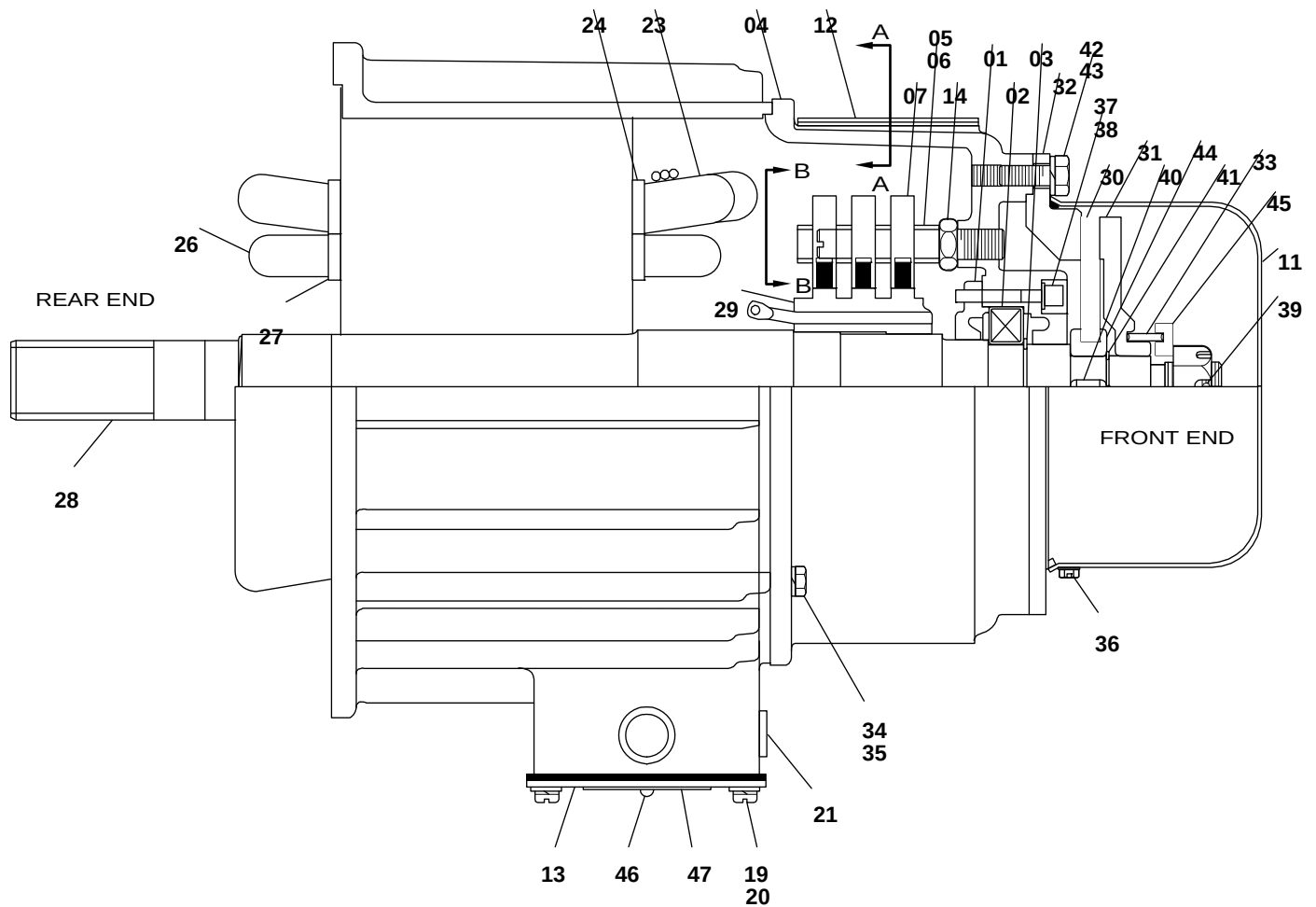
F1101

FIELD RING

REF	PART NO.	DESCRIPTION	QTY
	9571A134F3	FIELD RING	
01	571A863	• FRAME	1
02	20Q327D621	• SCREW, Hex hd cap 1-1/4-7UNC x 6-1/2 in	12
03	3616V019	• WASHER, Lock 1-1/4 in	12
04	20Q327D459	• SCREW, Hex hd cap 3/4-10UNC x 6 in	12
05	3616V015	• WASHER, Lock 3/4 in	12
06	520F44D18	• SHIM, Interpole	8
	520F45D7	• SHIM, Interpole	20
07	9575A75F1	• COIL, Interpole	3
	9575A75F3	• COIL, Interpole (w/RTD's)	1
08	520F44D17	• SHIM, Main pole	16
09	9575E1131F2	• COIL AND POLE	3
	9571E1131F4	• COIL AND POLE (w/RTD's)	1
10	20Z1703D69	• SCREW, Fl. Locking 3/8-16UNC x1 in	6
11		NOT USED	
12	20Z1704D5	• NUT, Lock 3/8-16UNC	6
13	205860078	• CABLE, #2	AR
14	79U2522D39	• TERMINAL, Solderless	10
15		NOT USED	
16	20Z1703D67	• SCREW, Fl. Locking 3/8-16UNC x 3/4 in	8
17	20Z1704D5	• NUT, Lock 3/8-16UNC	8
18		NOT USED	
19		NOT USED	
20	579F352	• STRAP, Connecting	1
21	579F353	• STRAP, Connecting	1
22	579F350	• STRAP, Connecting	1



MOTOR, DIPPER TRIP





MOTOR, DIPPER TRIP

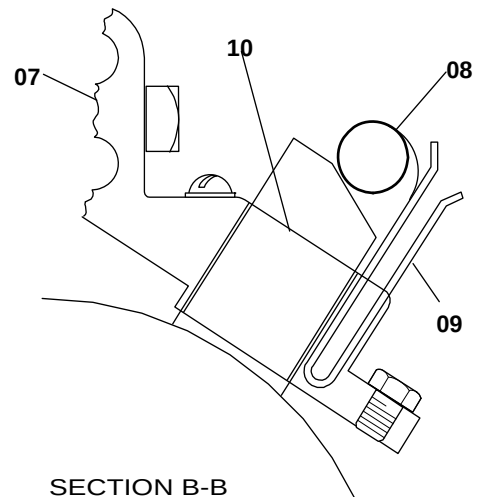
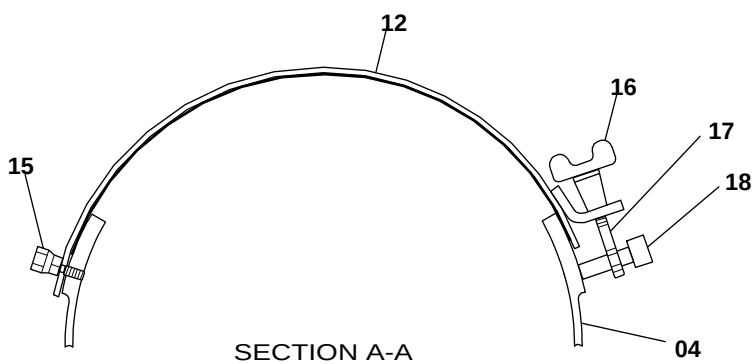
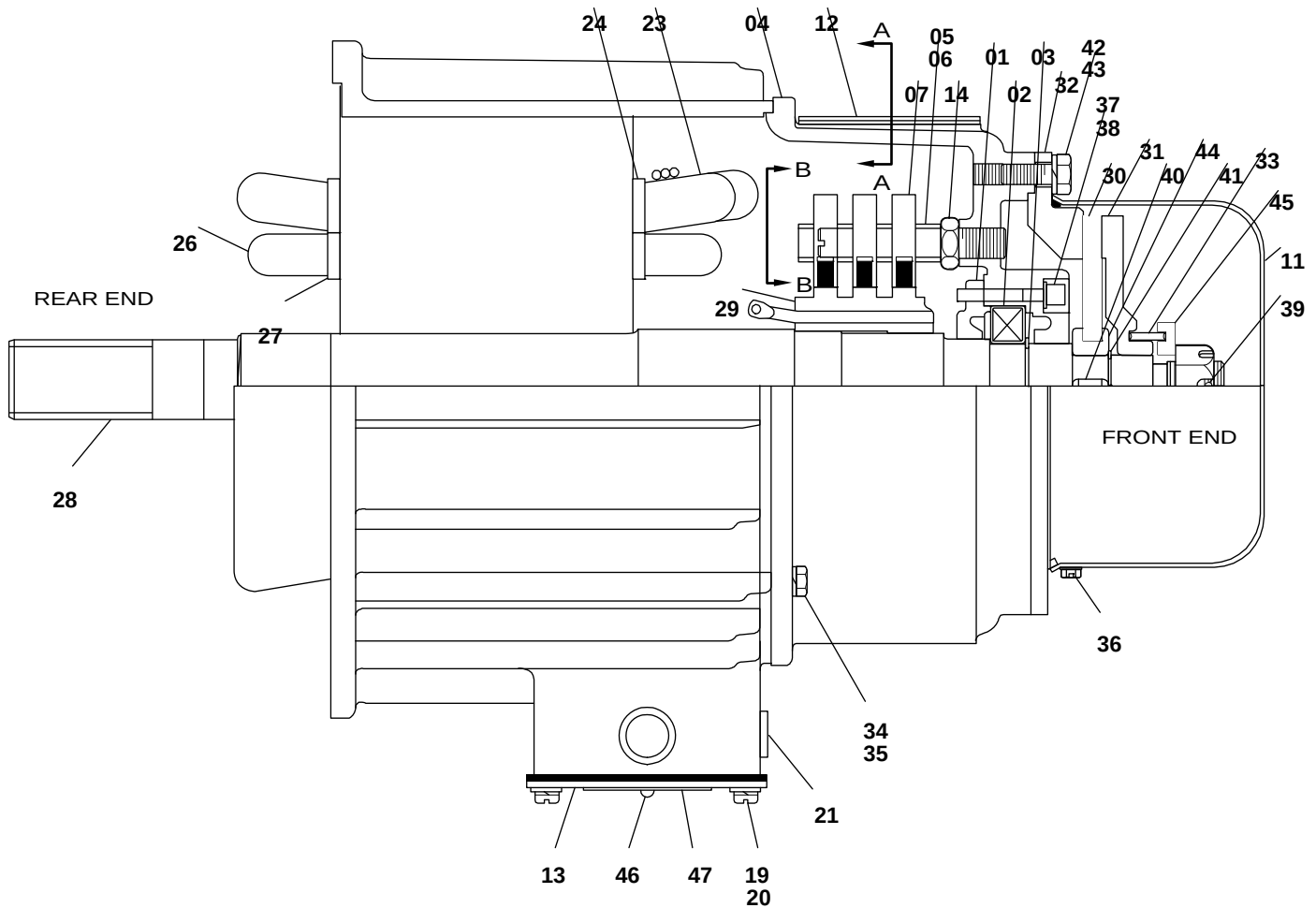
REF	PART NO.	DESCRIPTION	QTY
	EBM734F1A	MOTOR, DIPPER TRIP	
01	572F624	• RETAINER, Bearing, Inner	1
02	25T816D7	• BEARING	1
03	18Z2D50	• SNAP RING	1
04	R21266D1	• HEAD, Front	1
05	520H932	• STUD, Brushholder	1
06	518F134D141	• INSULATOR, Brushholder Stud	1
07	573F295	• BRUSHHOLDER ASSEMBLY	3
08	17Z548D5	• • SPRING ASSEMBLY	2
09	19Z223D15	• • ROLL PIN	2
10	73Q10D3	• BRUSH	6
11	R27668D1	• COVER, Brake	1
12	514F1044D1	• COVER, Brushholder Head	1
13	514H420	• COVER, Terminal Box	1
14	20Q272D40	• NUT, Hex Jam	1
15	520H809	• BOLT, Cover	1
16	520H773	• WING NUT, Cover	1
17	520H774	• EYEBOLT, Cover	1
18	20Q1D12	• BOLT, Shoulder, Cover	1
19	0860V111	• SCREW, Rd Hd Mach 1/4-20UNC x 5/8 in	4
20	3616V007	• WASHER, Spring Lock 1/4 in	4
21	2446V006	• PLUG, Pipe 1 in	1
22	EBM734F2	• STATOR ASSEMBLY	1
23		• • NOT USED	
--	532H536	• • PLATE, Connection (Not Shown)	1
	201660063	• • CABLE, #10 x 6 ft (Not Shown)	AR
	79U2522D21	• • TERMINAL (Not Shown)	3
24		• • NOT USED	
25	EBM734F3	• ROTOR ASSEMBLY	1
26		• • NOT USED	
27		• • NOT USED	
28	R21268D1	• • SHAFT	1
29	9577E82-1	• • SLIP RING ASSEMBLY	1
30	R24286D1	• DISC, Friction	1
31	R21263D1	• PLATE, Disc Holding	1
32	R21264D1	• PLATE, Disc	1
33	R21265D1	• SPRING, Brake	1

MOTOR, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
34	20Q260D258	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	4
35	3616V009	• WASHER, Spring Lock 3/8 in	4
36	20Z41D4	• SCREW, Type Z	3
37	0630V034	• SCREW, Hex Soc Hd Cap 5/16-18UNC x 2 in	4
38	3616V008	• WASHER, Spring Lock 5/16 in	4
39	2203V040	• PIN, Cotter 1/8 x 2 in	1
40	20H2971D3	• KEY,	1
41	18Z2D65	• RING, Snap	1
42	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	3
43	3616V011	• WASHER, Spring Lock 1/2 in	3
44	R21262D1	• HUB, Friction Disc	1
45	R21261D1	• RETAINER, Spring	1
46	20Z42D2	• SCREW, Drive #4 x 1/4 in	4
47	532H615	• PLATE, Name	1
--	201660063	• CABLE, #10 x 5 ft (Not Shown)	AR
	79U2522D21	• TERMINAL (Not Shown)	6



MOTOR, DIPPER TRIP



F6295



MOTOR, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
	EBM734F1E	MOTOR, DIPPER TRIP	
01	572F624	• RETAINER, Bearing, Inner	1
02	25T816D7	• BEARING	1
03	18Z2D50	• SNAP RING	1
04	R21266D1	• HEAD, Front	1
05	520H932	• STUD, Brushholder	1
06	518F134D141	• INSULATOR, Brushholder Stud	1
07	573F295	• BRUSHHOLDER ASSEMBLY	3
08	17Z548D5	• • SPRING ASSEMBLY	2
09	19Z223D15	• • ROLL PIN	2
10	73Q10D3	• BRUSH	6
11	R27668D1	• COVER, Brake	1
12	514F1044D1	• COVER, Brushholder Head	1
13	514H420	• COVER, Terminal Box	1
14	20Q272D40	• NUT, Hex Jam	1
15	520H809	• BOLT, Cover	1
16	520H773	• WING NUT, Cover	1
17	520H774	• EYEBOLT, Cover	1
18	20Q1D12	• BOLT, Shoulder, Cover	1
19	0860V111	• SCREW, Rd Hd Mach 1/4-20UNC x 5/8 in	4
20	3616V007	• WASHER, Spring Lock 1/4 in	4
21	2446V006	• PLUG, Pipe 1 in	1
22	EBM734F2	• STATOR ASSEMBLY	1
23		• • NOT USED	
--	532H536	• • PLATE, Connection (Not Shown)	1
	201660063	• • CABLE, #10 x 6 ft (Not Shown)	AR
	79U2522D21	• • TERMINAL (Not Shown)	3
24		• • NOT USED	
25	EBM734F3	• ROTOR ASSEMBLY	1
26		• • NOT USED	
27		• • NOT USED	
28	R21268D1	• • SHAFT	1
29	9577E82-1	• • SLIP RING ASSEMBLY	1
30	R24286D1	• DISC, Friction	1
31	R21263D1	• PLATE, Disc Holding	1
32	R21264D1	• PLATE, Disc	1
33	R21265D1	• SPRING, Brake	1



Machine
Serial Number: **4184**

MOTOR, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
34	20Q260D258	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	4
35	3616V009	• WASHER, Spring Lock 3/8 in	4
36	20Z41D4	• SCREW, Type Z	3
37	0630V034	• SCREW, Hex Soc Hd Cap 5/16-18UNC x 2 in	4
38	3616V008	• WASHER, Spring Lock 5/16 in	4
39	2203V040	• PIN, Cotter 1/8 x 2 in	1
40	20H2971D3	• KEY,	1
41	18Z2D65	• RING, Snap	1
42	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	3
43	3616V011	• WASHER, Spring Lock 1/2 in	3
44	R21262D1	• HUB, Friction Disc	1
45	R21261D1	• RETAINER, Spring	1
46	20Z42D2	• SCREW, Drive #4 x 1/4 in (Not Shown)	4
47	532H615	• PLATE, Name (Not Shown)	1
--	201660063	• CABLE, #10 x 5 ft (Not Shown)	AR
	79U2522D21	• TERMINAL (Not Shown)	6

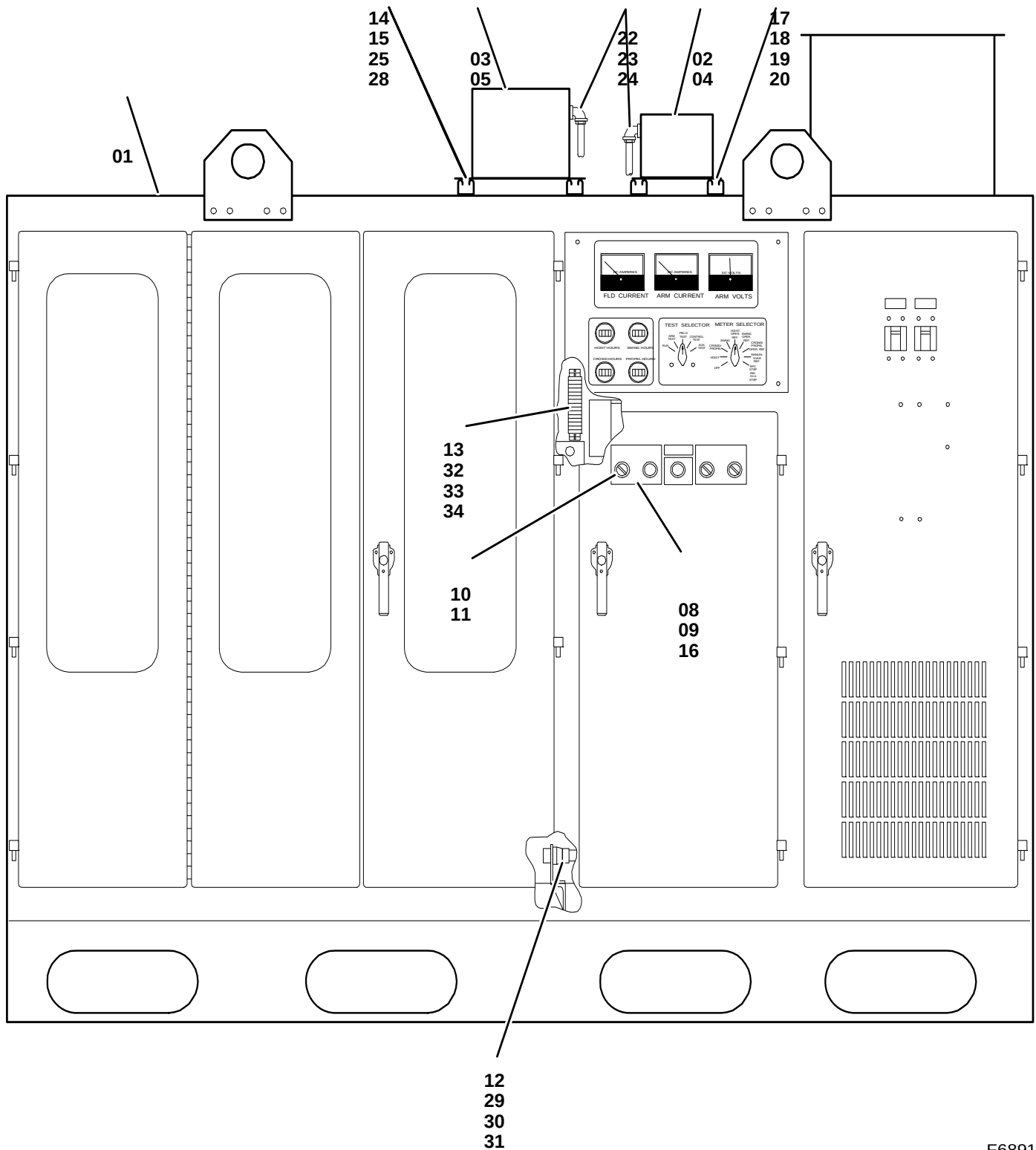


Group 12 - CABINET, MAIN CONTROL

Description	Page
CABINET MODULE, MAIN CONTROL	12-1
SERIAL NUMBER SPECIFIC "GUI" MATERIAL	12-10



MODULE, CONTROL CABINET



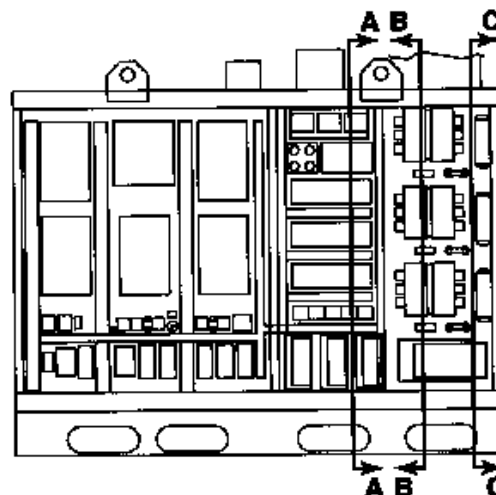
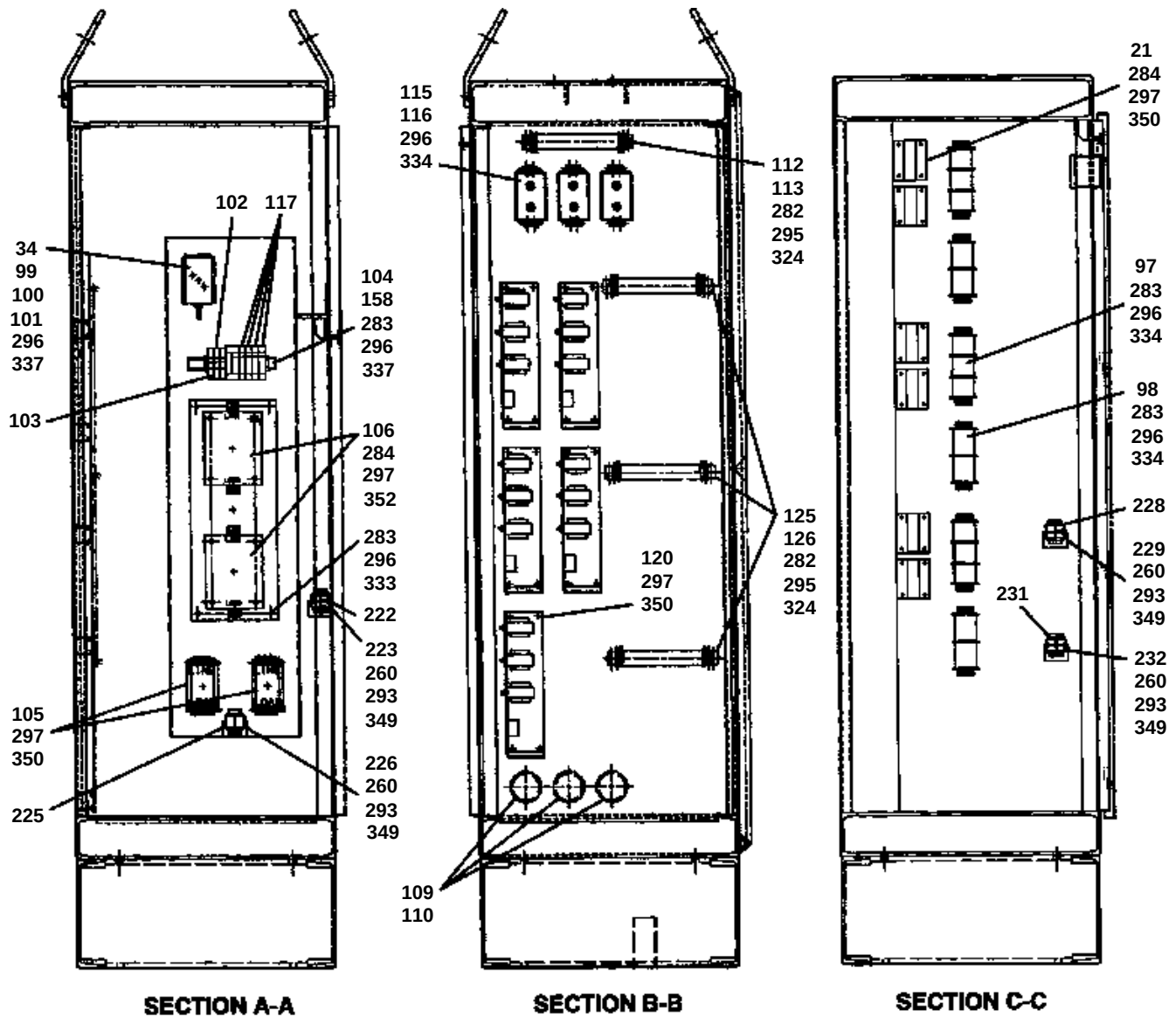
F6891



MODULE, CONTROL CABINET

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R37318F1	MODULE, CONTROL CABINET		
01	R37779F1	· CABINET, Digital Drive Control (Note R37779F1 is NOT part of R37318F1)	1	12-2
02	75U24D4	· TRANSFORMER, 1000VA, 60 HZ	1	
03	75U24D6	· TRANSFORMER, 2000VA, 60 HZ	1	
04		NOT USED		
05		NOT USED		
06		NOT USED		
07		NOT USED		
08	R19296D3	· NAMEPLATE	1	
09		NOT USED		
10		NOT USED		
11	79Z1843D35	· PLUG, Hole	1	
12		NOT USED		
13		NOT USED		
14	20Q270D24	· NUT, Hex 3/8-16UNC	4	
15	3616V009	· WASHER, Lock 3/4 in	4	
16	21Z729D3	· ADHESIVE, 2 oz	AR	
17	20Z1403D1	· STUD W/ Spring 5/16-18UNC	4	
18	20Q270D20	· NUT, Hex 5/16-18UNC	4	
19	3631V006	· WASHER, Plain 5/16 in	4	
20	3616V008	· WASHER, Lock 5/16 in	4	
21	304A13180	· CONDUIT, Flex 3/4 x 15 in	AR	
22	79Z878D2	· CONNECTOR, Straight x 3/4 in	2	
23	79Z880D2	· CONNECTOR, 90 deg x 3/4 in	2	
24	0944V002	· NUT, Lock 3/4 in	4	
25	20Z1403D3	· STUD W/Spring 3/8-18UNC	4	
26		NOT USED		
27		NOT USED		
28	3631V007	· WASHER, Flat	4	
29		NOT USED		
30		NOT USED		
31		NOT USED		
32		NOT USED		
33		NOT USED		
34		NOT USED		

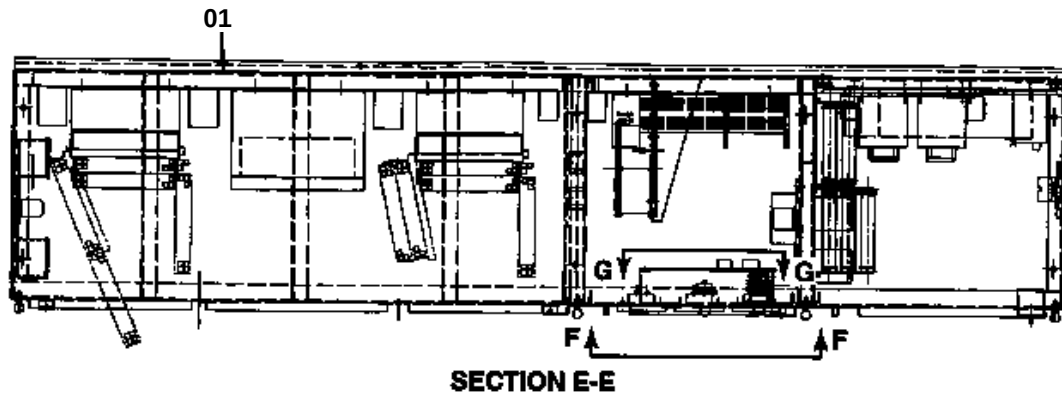
CABINET, DIGITAL DRIVE CONTROL



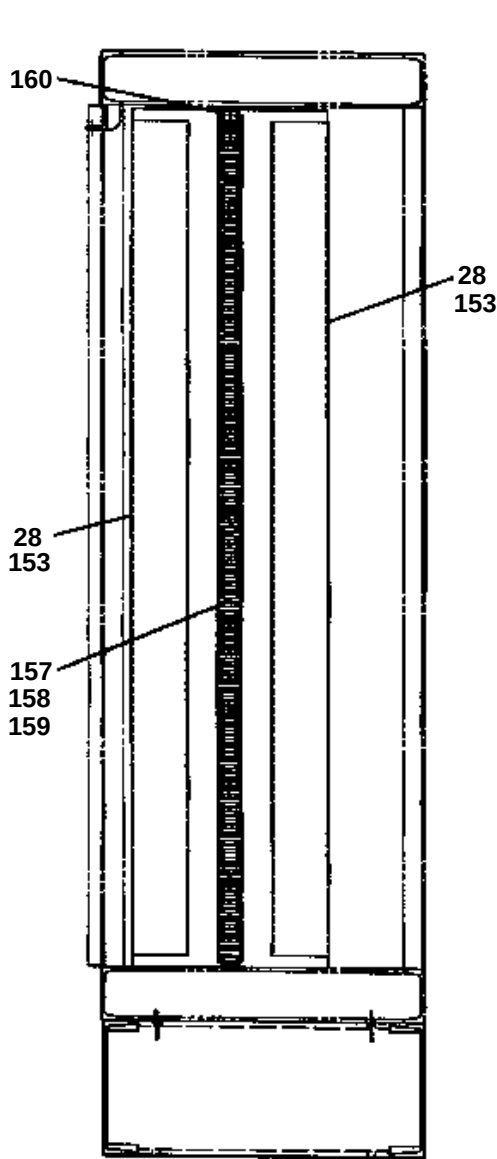
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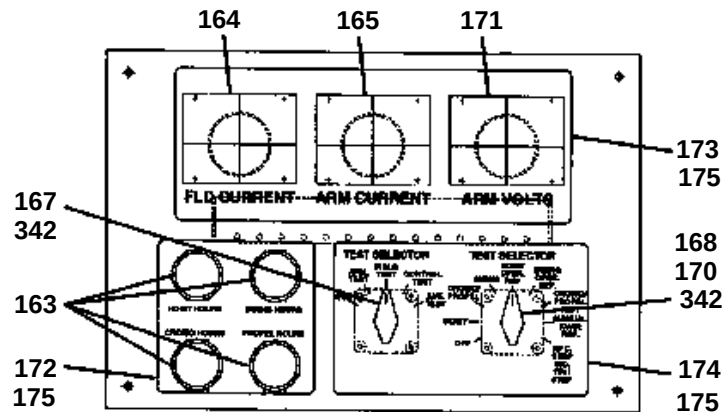
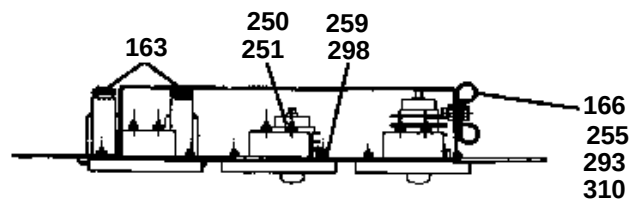
CABINET, DIGITAL DRIVE CONTROL



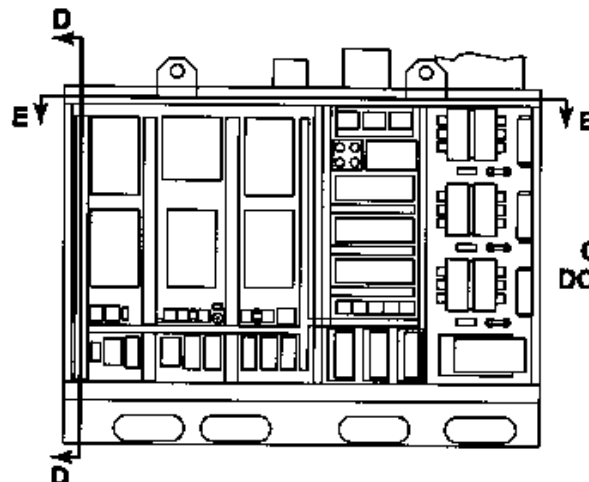
SECTION E-E



SECTION D-D



VIEW F-F

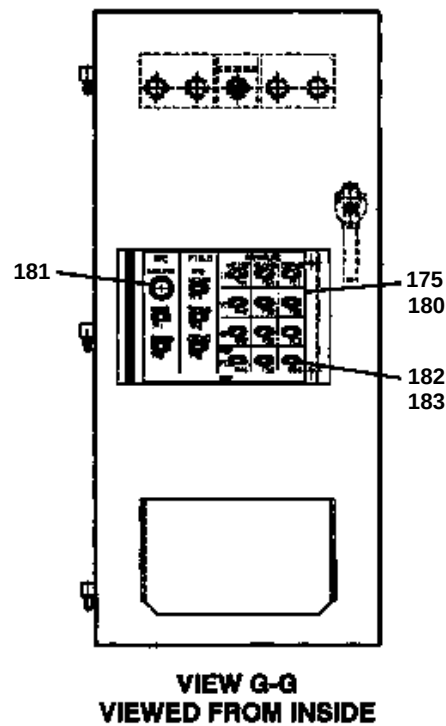
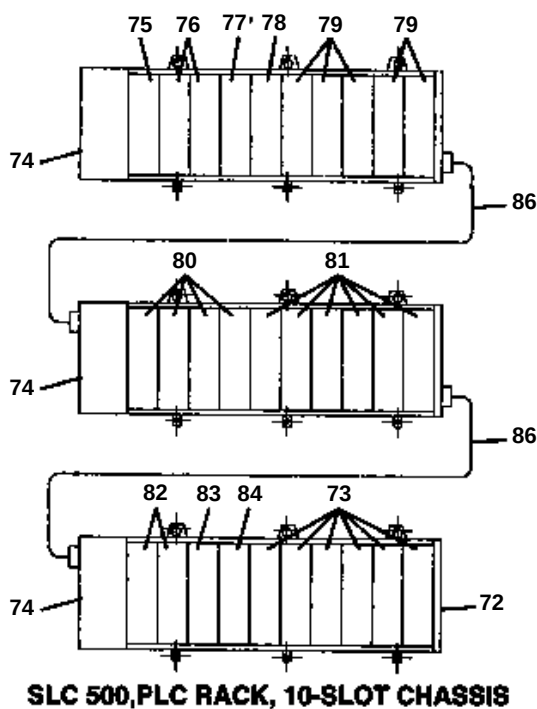
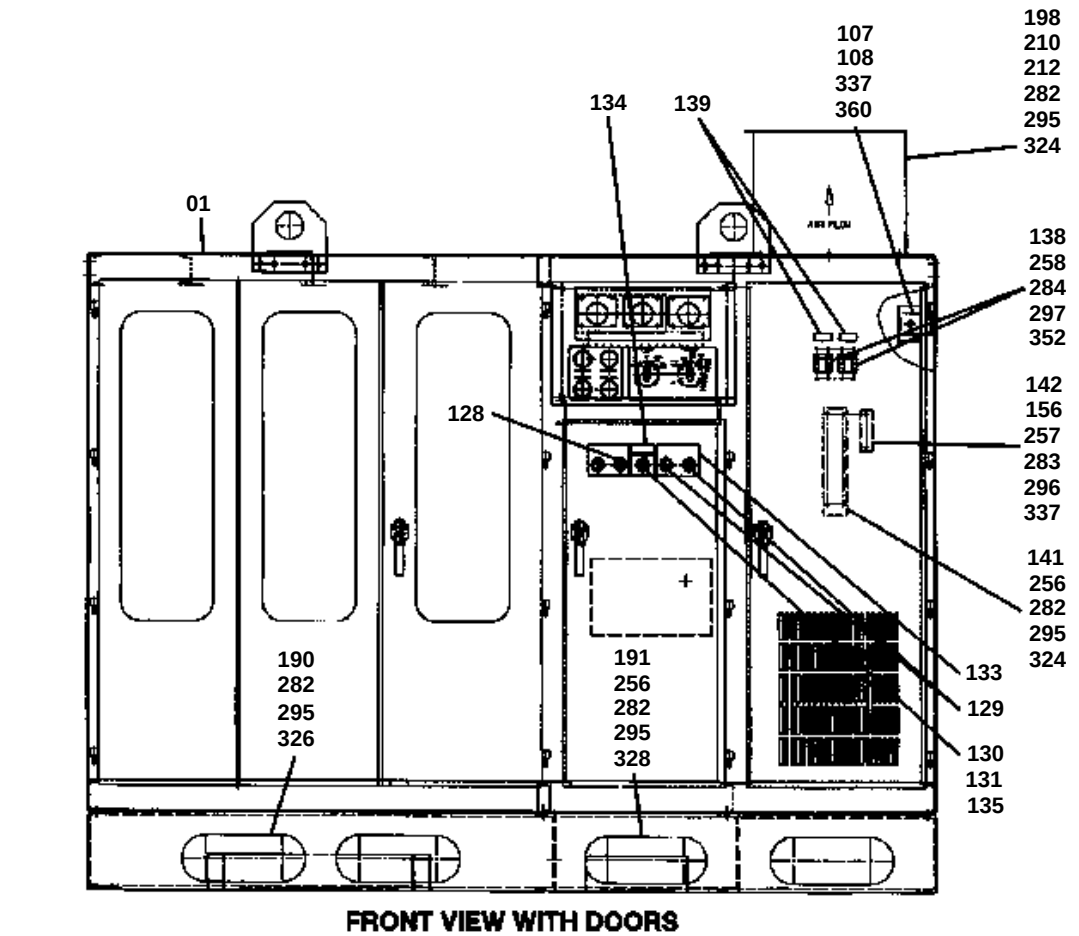


CABINET WITH
DOORS REMOVED

F6892A



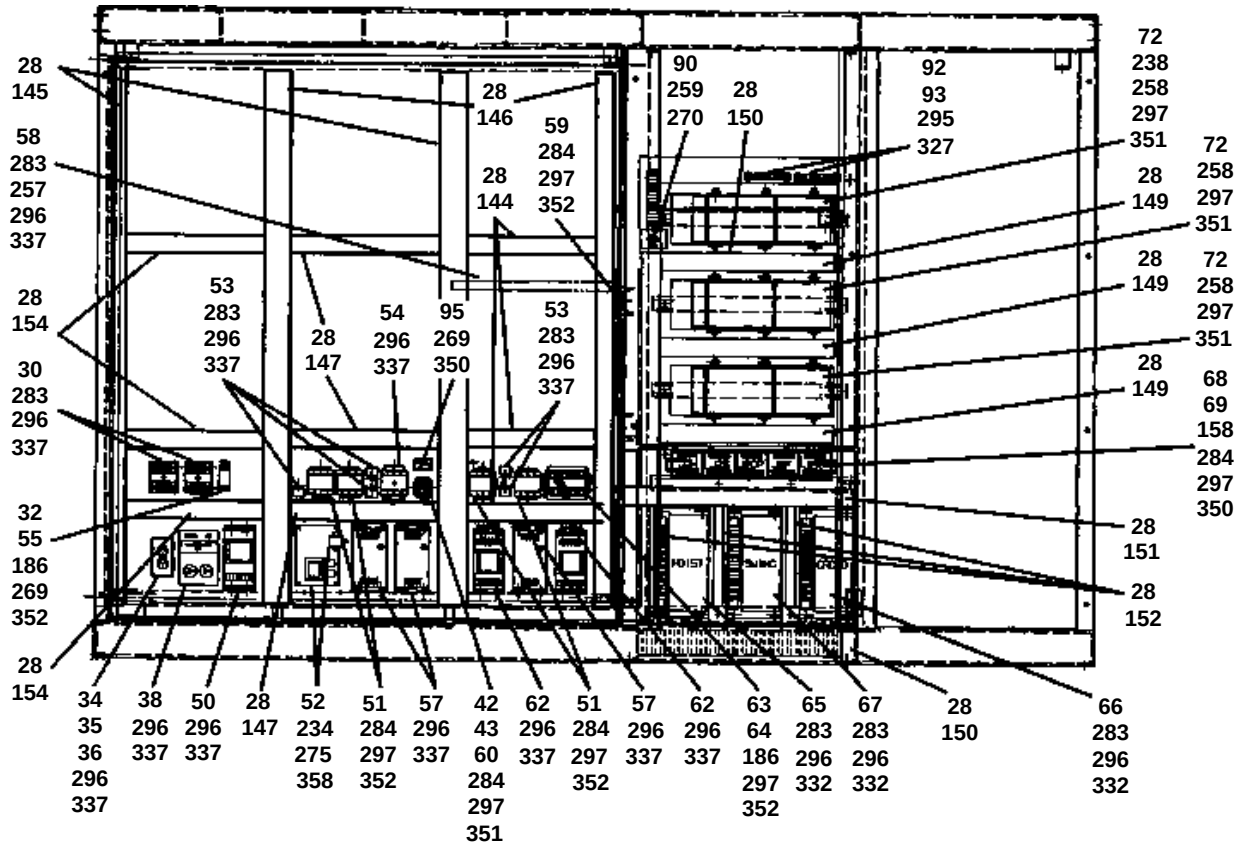
CABINET, DIGITAL DRIVE CONTROL



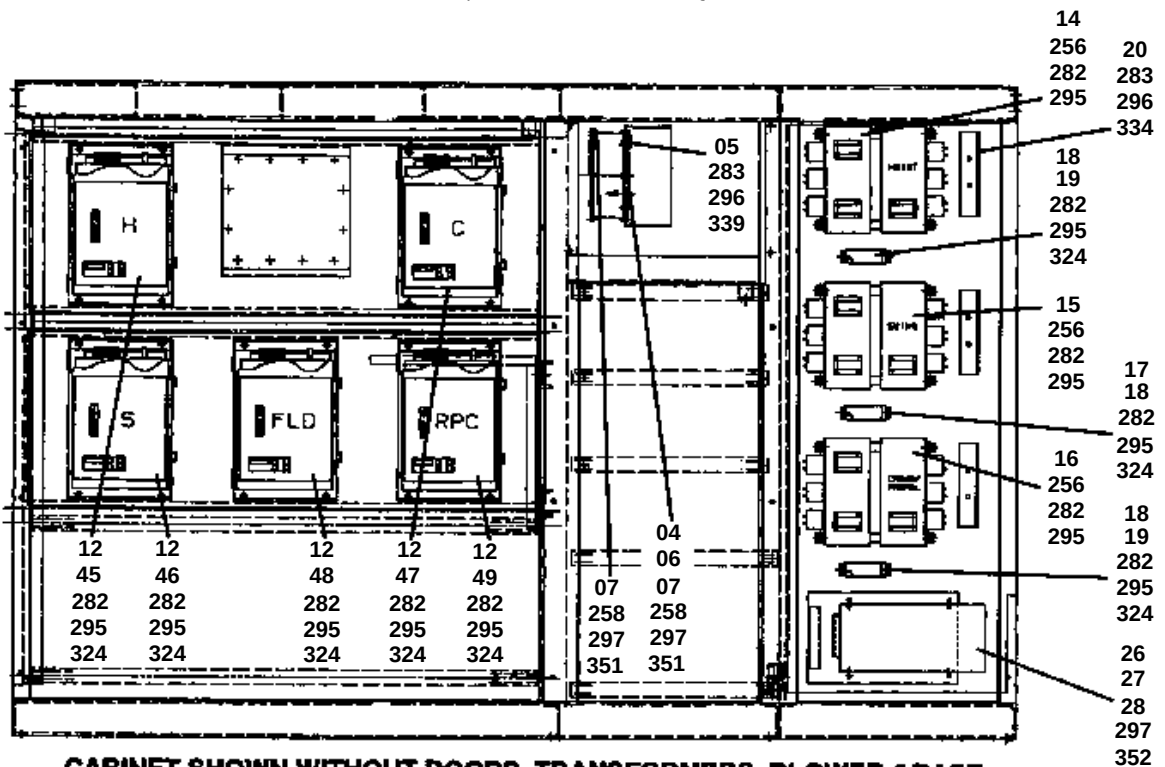
F6892B



CABINET, DIGITAL DRIVE CONTROL



CABINET SHOWN WITHOUT DOORS, TRANSFORMERS, BLOWER & BASE



CABINET SHOWN WITHOUT DOORS, TRANSFORMERS, BLOWER & BASE

F6892C



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R37779F1	CABINET, DIGITAL DRIVE CONTROL		
01	R25890F1	• CABINET, Weldment	1	
02		NOT USED		
03		NOT USED		
04	49Z254D1	• FAN	1	
05	79H2159D5	• TERMINAL BLOCK ASSEMBLY	1	
06	49Z254D13	• CORD	1	
07	14Z302	• GUARD, Fan	2	
08		NOT USED		
09		NOT USED		
10		NOT USED		
11		NOT USED		
12	R13842D1	• CONTROLLER, DC Digital Drive	5	
	R19338D1	• • CIRCUIT BOARD, Micro Processor w/Enclosure	1	
	R19339D1	• • CIRCUIT BOARD, Maxi System	1	
	R19340D1	• • CIRCUIT BOARD, Bridge Interface	1	
	R22678D4	• • CABLE, DC Power	1	
	R22678D2	• • CABLE, Signal A1 - J1 to A2 - J2	1	
	R22678D1	• • CABLE, Signal A2 - J3 to A1 - J4	1	
	R22678D3	• • CABLE, Signal A1 to A3	1	
13		NOT USED		
14	979A1628F2	• HEATSINK, Sub-Assembly Hoist (Converter)	1	12-3
15	979A1628F3	• HEATSINK, Sub-Assembly Swing (Converter)	1	12-4
16	979A1628F4	• HEATSINK, Sub-Assembly Crowd/Propel	1	12-5
17	80Z1022D74	• HEATER, Swing	1	
18	79Z4095	• RELAY, Overload	3	
19	80Z1022D78	• HEATER, Hoist and Crowd	2	
20	R37003F2	• FEEDBACK ASSEMBLY	3	
21	R37005D1	• TRANSFORMER, Current	6	
22	79Z2705D2	• INSULATOR, Center Post	6	
23		NOT USED		
24	21Z729D3	• ADHESIVE, 2 oz	AR	
25		NOT USED		
26	R14216D1	• POWER SUPPLY	1	
27	79Z566D1	• WIRING DUCT, 1 x 1 x 6-3/4 in lg	1	
28	20Z1684D1	• RIVET	250	
29		NOT USED		



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
30	75Q310D1	• TRANSFORMER	2	
31		NOT USED		
32	79Z3346D1	• RELAY	1	
33		NOT USED		
34	87Z256D4	• DUPLEX BOX	2	
35	87Z407D1	• RECEPTACLE	1	
36	87Z28D7	• COVER	1	
37		NOT USED		
38	R7838F1	• OUTLET, Duplex W/Surge Suppressor	1	
39		NOT USED		
40		NOT USED		
41		NOT USED		
42	87Z239	• SOCKET BASE	2	
43	17Z434	• SPRING, Hold Down	1	
44		NOT USED		
45	R26739D1	• CABLE, Modification (J2H)	1	
46	R26739D2	• CABLE, Modification (J2S)	1	
47	R26739D3	• CABLE, Modification (J2CP)	1	
48	R26739D4	• CABLE ,Modification (J2F)	1	
49	R26739D5	• CABLE, Modification (J2R)	1	
50	100E5237-303	• RELAY ASSEMBLY, Electronic	1	
51	79Z3208D1	• RELAY	4	
52	R19337D1	• CONVERTER	1	
53	79Z2475D7	• RCV SURGE SUPPRESSOR	5	
54	79Z1887D33	• RELAY	1	
55	80Z839D138	• RESISTOR, 51K	1	
56		NOT USED		
57	100A7988-4	• ISOLATOR ASSEMBLY, DC Voltage	3	
58	R25877D1	• SHELF	1	
59	R25875D1	• SLIDE ASSEMBLY	1	
60	79Z1342	• RELAY, Phase Sequence	1	
61		NOT USED		
62	100E5936F2	• MODULE, Differential Voltage	2	
63	80Z824D49	• RESISTOR, 100 OHM	1	
64	80Z985	• TRANSDUCER	1	
65	R19116F1	• FEEDBACK ASSEMBLY, (Hoist)	1	12-7
66	R19116F2	• FEEDBACK ASSEMBLY, (Crowd/Propel)	1	12-8



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
67	R19116F3	· FEEDBACK ASSEMBLY, (Swing)	1	12-9
68	R14684D1	· ADAPTER, D-Sub	5	
69	79Q1676D2	· DIN RAIL 35MM X 18-3/4 IN LG	AR	
70		NOT USED		
71		NOT USED		
72	79U2704D33	· CHASSIS, PLC Rack	3	
73	79U2704D53	· FILLER, Blank Slot	3	
74	79U2704D38	· POWER SUPPLY	3	
75	79U2704D65	· PROCESSOR	1	
76	79U2704D41	· SCANNER, Module	2	
77	R19695D2	· AMCI RESOLVER, Module	1	
78	79U2704D27	· ANALOG, Output	1	
79	79U2704D10	· ANALOG, Input	5	
80	79U2704D4	· 24VDC, INPUT	4	
81	79U2704D19	· 24VDC, OUTPUT	6	
82	79U2704D2	· 120OVAC, INPUT	2	
83	79U2704D15	· 120VAC, INPUT	1	
84	79U2704D24	· RELAY, Output	1	
85	R30584D1	· CONNECTOR, Resolver	1	
86	79U2704D36	· CABLE, Rack Interconnect 36 in	2	
87		NOT USED		
88		NOT USED		
89		NOT USED		
90	R23571D1	· AMC1 REFERENCE, Module	1	
91		NOT USED		
92	79Z1040D1	· INSULATOR, Standoff	4	
93	79H2046	· TERMINAL, Bus Bar	2	
94		NOT USED		
95	75Q284D7	· RECTIFIER	1	
96		NOT USED		
97	79Z1880D3	· BLOCK, Terminal	3	
98	79Z1880D6	· BLOCK, Terminal	3	
99	89Z393D1	· THERMOSTAT	1	
100	0944V001	· NUT, Lock 1/2 in	1	
101	0949V004	· CONDUIT, Insulating Bushing 1/2 in	1	
102	279Z20001D3	· CIRCUIT BREAKER	1	
103	R15098D4	· CIRCUIT BREAKER	1	



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
104	79Q1676D2	• DIN, Rail 35mm x 8 in lg	AR	
105	R13865D1	• FILTER, Suppression	2	
106	75Q166	• FILTER, Spike & Transient Suppression	2	
107	79Z1803D3	• DOOR, Interlock	1	
108	79F4213	• INSULATOR	1	
109	0906V006	• CONDUIT, Insulating Bushing 2 in	3	
110	0949V009	• CONDUIT, Insulating End Bushing 2 in	3	
111		NOT USED		
112	16Z335D5	• RESISTOR, Mounting Bracket	2	
113	80Z31D14	• RESISTOR, 3 OHMS 300W	3	
114		NOT USED		
115	84Z237D1	• SCR COMMUTATION, Capacitor	3	
116	16Z335D5	• BRACKET, Footed	6	
117	279Z20001D2	• CIRCUIT BREAKER	4	
118		NOT USED		
119		NOT USED		
120	R19346D1	• POWER SUPPLY 42VDC	5	
121		NOT USED		
122	R37507D1	• KEYBOARD, GUI	1	
123		NOT USED		
124		NOT USED		
125	16Z316D1	• BRACKET, Resistor Mounting	3	
126	80Z31D26	• RESISTOR	6	
127		NOT USED		
128	79Z1843D250	• BUTTON, Fault Reset	1	
129	79Z2719D11	• SWITCH, Key	2	
130	14H1916	• GUARD, Pushbutton	1	
131	79Z2721D35	• CAP, Red Jumbo "E-Stop"	1	
132		NOT USED		
133	R19296D2	• NAMEPLATE, Keyswitch	1	
134	R19330D1	• NAMEPLATE, E-Stop Pushbutton	1	
135	79Z2717D31	• PUSHBUTTON, Red Illuminated, Push-Pull	1	
136		NOT USED		
137		NOT USED		
138	79U2470D2	• CIRCUIT BREAKER	2	
139	32Z2033D7	• LABEL	2	
140		NOT USED		



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
141	980E33F1	• VARISTOR, M.O.V.	1	
142	79H2159D14	• BLOCK Terminal	1	
143	79Z566D4	• DUCT, Wiring 3 x 3 21-1/2 in	AR	
144	79Z566D5	• DUCT, Wiring 2 x 3 x 14-1/2 in	AR	
145	79Z566D4	• DUCT, Wiring 3 x 3 x 60-1/2 in	AR	
146	79Z566D4	• DUCT, Wiring 3 x 3 x 53 in	AR	
147	79Z566D5	• DUCT, Wiring 2 x 3 x 16 in	AR	
148	79Z566D4	• DUCT, Wiring 3 x 3 x 53 in	AR	
149	79Z566D5	• DUCT, Wiring 2 x 3 x 23-3/4 in	AR	
150	79Z566D4	• DUCT, Wiring 3 x 3 x 21-1/2 in	AR	
151	79Z566D5	• DUCT, Wiring 2 x 3 x 26 in	AR	
152	79Z566D8	• DUCT, Wiring 1 x 2 x 11 in	AR	
153	79Z566D6	• DUCT, Wiring 4 x 3 x 72 in	AR	
154	79Z566D5	• DUCT, Wiring 2 x 3 x 15-1/4 in	AR	
155		NOT USED		
156		NOT USED		
157	79Z4754D1	• TERMINAL, Block	197	
158	79Z4754D2	• TERMINAL, Block End Stop	6	
159	79Z4754D3	• TERMINAL, Block End Cap	2	
160	79Q1676D2	• DIN, Rail 35mm x 72 in lg	AR	
161		NOT USED		
162		NOT USED		
163	89Z914D1	• METER, Hour	4	
164	89Z461D4	• METER	1	
165	89Z462D3	• METER	1	
166	32Z423D3	• CLAMP, Insulated	2	
167	79Z2580D1	• SWITCH, Rotary	1	
168	79Z2580D3	• SWITCH, Rotary	1	
169		NOT USED		
170	79Z1892D2	• JUMPER	12	
171	89Z462D2	• METER	1	
172	R15910D1	• NAMEPLATE, PLN Meter	1	
173	R15910D2	• NAMEPLATE, PLN Meter	1	
174	R15910D4	• NAMEPLATE, PLN Meter	1	
175	21Z516D2	• ADHESIVE	AR	
176		NOT USED		
177		NOT USED		



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
178		NOT USED		
179		NOT USED		
180	R25885D1	· NAMEPLATE	1	
181	80Z1312D3	· POTENTIOMETER	1	
182	R25886D1	· DOUBLE BINDING POST ASSEMBLY	17	
183		NOT USED		
184		NOT USED		
185		NOT USED		
186	79U2522D1	· TERMINAL, Solderless	4	
187		NOT USED		
188		NOT USED		
189		NOT USED		
190	80Z112D21	· HEATER	1	
191	80Z112D11	· HEATER	3	
192		NOT USED		
193		NOT USED		
194		NOT USED		
195		NOT USED		
196		NOT USED		
197		NOT USED		
198	R14215D1	· FAN	1	
199		NOT USED		
200		NOT USED		
201		NOT USED		
202		NOT USED		
203		NOT USED		
204		NOT USED		
205		NOT USED		
206		NOT USED		
207		NOT USED		
208		NOT USED		
209		NOT USED		
210		NOT USED		
211		NOT USED		
212		NOT USED		
213		NOT USED		
214		NOT USED		



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
215		NOT USED		
216		NOT USED		
217		NOT USED		
218		NOT USED		
219		NOT USED		
220	79A2439D4	• ASSEMBLY, Cable PCJ19	1	
221		NOT USED		
222	R26730D1	• ASSEMBLY, Cable TP1	1	
223	R26729D1	• ASSEMBLY, Cable TJ1	1	
224		NOT USED		
225	R27278D1	• ASSEMBLY, Cable TP2	1	
226	R27277D1	• ASSEMBLY, Cable TJ2	1	
227		NOT USED		
228	R26891D1	• ASSEMBLY, Cable BP1	1	
229	R26889D1	• ASSEMBLY, Cable BJ1	1	
230		NOT USED		
231	R26878D1	• ASSEMBLY, Cable BP2	1	
232	R26877D1	• ASSEMBLY, Cable BJ2	1	
233		NOT USED		
234	R27280D1	• ASSEMBLY, Cable	1	
235		NOT USED		
236	79Z4923D14	• ASSEMBLY, Cable	1	
237		NOT USED		
238	R23229D50	• ASSEMBLY, Cable	1	
239		NOT USED		
240		NOT USED		
241		NOT USED		
242		NOT USED		
243		NOT USED		
244		NOT USED		
245		NOT USED		
246		NOT USED		
247		NOT USED		
248		NOT USED		
249		NOT USED		
250	2039V005	• NUT, Hex Brass 3/16-32UNC	6	
251		NOT USED		



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
252	18H4145D5	• WASHER, Lock #10	6	
253		NOT USED		
254		NOT USED		
255		NOT USED		
256	20Q270D16	• NUT, Hex 1/4-20UNC	24	
257	2136V005	• NUT, Hex #10-24UNC	6	
258	2136V004	• NUT, Hex #8-32UNC	38	
259	2136V003	• NUT, Hex #6-32UNC	13	
260	2136V001	• NUT, Hex #4-40UNC	20	
261		NOT USED		
262		NOT USED		
263		NOT USED		
264		NOT USED		
265		NOT USED		
266		NOT USED		
267	18Z733D9	• WASHER, Lock 1/4 in	12	
268		NOT USED		
269	18Z2936D5	• WASHER, Lock #8	4	
270	18Z733D5	• WASHER, Lock #6	1	
271		NOT USED		
272		NOT USED		
273		NOT USED		
274		NOT USED		
275		NOT USED		
276		NOT USED		
277		NOT USED		
278		NOT USED		
279		NOT USED		
280		NOT USED		
281	3631V006	• WASHER, Plain 5/16 in	6	
282	3631V005	• WASHER, Plain 1/4 in	68	
283	3631V004	• WASHER, Plain #10	68	
284	3631V003	• WASHER, Plain #8	56	
285		NOT USED		
286		NOT USED		
287		NOT USED		
288		NOT USED		



CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
289		NOT USED		
290		NOT USED		
291		NOT USED		
292		NOT USED		
293	3616V002	• WASHER, Lock #4	20	
294	3616V008	• WASHER, Lock 5/16 in	10	
295	3616V007	• WASHER, Lock 1/4 in	76	
296	3616V005	• WASHER, Lock #10	117	
297	3616V004	• WASHER, Lock #8	122	
298	3616V003	• WASHER, Lock #6	12	
299		NOT USED		
300		NOT USED		
301		NOT USED		
302		NOT USED		
303		NOT USED		
304		NOT USED		
305		NOT USED		
306		NOT USED		
307		NOT USED		
308		NOT USED		
309		NOT USED		
310	20Q260D258	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	1	
311		NOT USED		
312		NOT USED		
313	0862V155	• SCREW, Pan Hd Mach 5/16-18UNC x 1 in	6	
314		NOT USED		
315		NOT USED		
316		NOT USED		
317		NOT USED		
318		NOT USED		
319		NOT USED		
320		NOT USED		
321		NOT USED		
322		NOT USED		
323	20Q260D192	• SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	34	
324	0862V136	• SCREW, Pan Hd Mach 1/4-20UNC x 3/4 in	40	
325	0862V131	• SCREW, Pan Hd Mach 1/4-20UNC x 3/8 in	4	



CABINET, DIGITAL DRIVE CONTROL

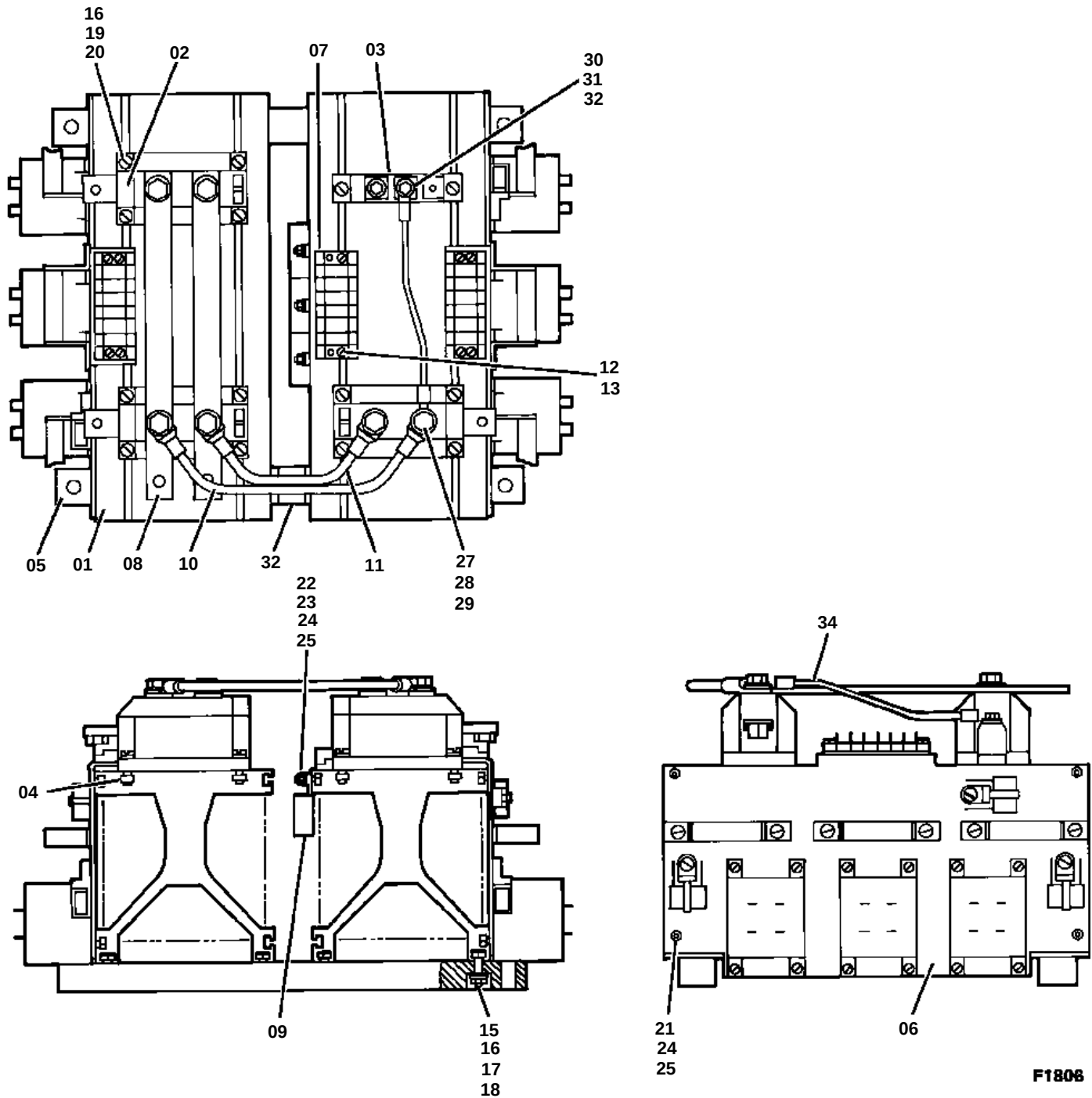
REF	PART NO.	DESCRIPTION	QTY	PAGE
326	0862V133	• SCREW, Pan Hd Mach 1/4-20UNC x 1/2 in	8	
327	0862V135	• SCREW, Pan Hd Mach 1/4-20UNC x 5/8 in	4	
328	0862V136	• SCREW, Pan Hd Mach 1/4-20UNC x 3/4 in	6	
329		NOT USED		
330		NOT USED		
331		NOT USED		
332	0862V108	• SCREW, Pd Hd Mach #10-24UNC x 2-1/2 in lg	12	
333	0862V101	• SCREW, Pan Hd Mach #10-24UNC x 1 in lg	4	
334	0862V099	• SCREW, Pan Hd Mach #10-24UNC x 3/4 in lg	24	
335		NOT USED		
336		NOT USED		
337	0862V096	• SCREW, Pan Hd Mach #10-24UNC x 1/2 in lg	66	
338	0862V094	• SCREW, Pan Hd Mach #10-24UNC x 3/8 in lg	8	
339		NOT USED		
340		NOT USED		
341		NOT USED		
342	0844V062	• SCREW, Flat Hd Mach #10-24UNF x 1/2 in lg	8	
343		NOT USED		
344		NOT USED		
345		NOT USED		
346		NOT USED		
347		NOT USED		
348		NOT USED		
349	0862V029	• SCREW, Pan Hd Mach #4-40UNC x 1/2 in lg	20	
350	0862V080	• SCREW, Pan Hd Mach #8-32UNC x 3/4 in lg	78	
351	0862V079	• SCREW, Pan Hd Mach #8-32UNC x 5/8 in lg	34	
352	0862V077	• SCREW, Pan Hd Mach #8-32UNC x 1/2 in lg	46	
353		NOT USED		
354		NOT USED		
355		NOT USED		
356		NOT USED		
357		NOT USED		
358	0862V068	• SCREW, Pan Hd Mach #6-32UNC x 1-1/4 in lg	4	
359		NOT USED		
360	0862V059	• SCREW, Pan Hd Mach #6-32UNC x 3/8 in lg	2	
361		NOT USED		
362		NOT USED		

CABINET, DIGITAL DRIVE CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
363		NOT USED		
364		NOT USED		
365		NOT USED		
366		NOT USED		
367		NOT USED		
368		NOT USED		
369		NOT USED		
370		NOT USED		
371		NOT USED		
372		NOT USED		
373	EBM-OS-E	"GUI" MATERIAL, SERIAL NO. SPECIFIC (Not Shown)	1	12-10



HEAT SINK SUBASSEMBLY, HOIST



F1808

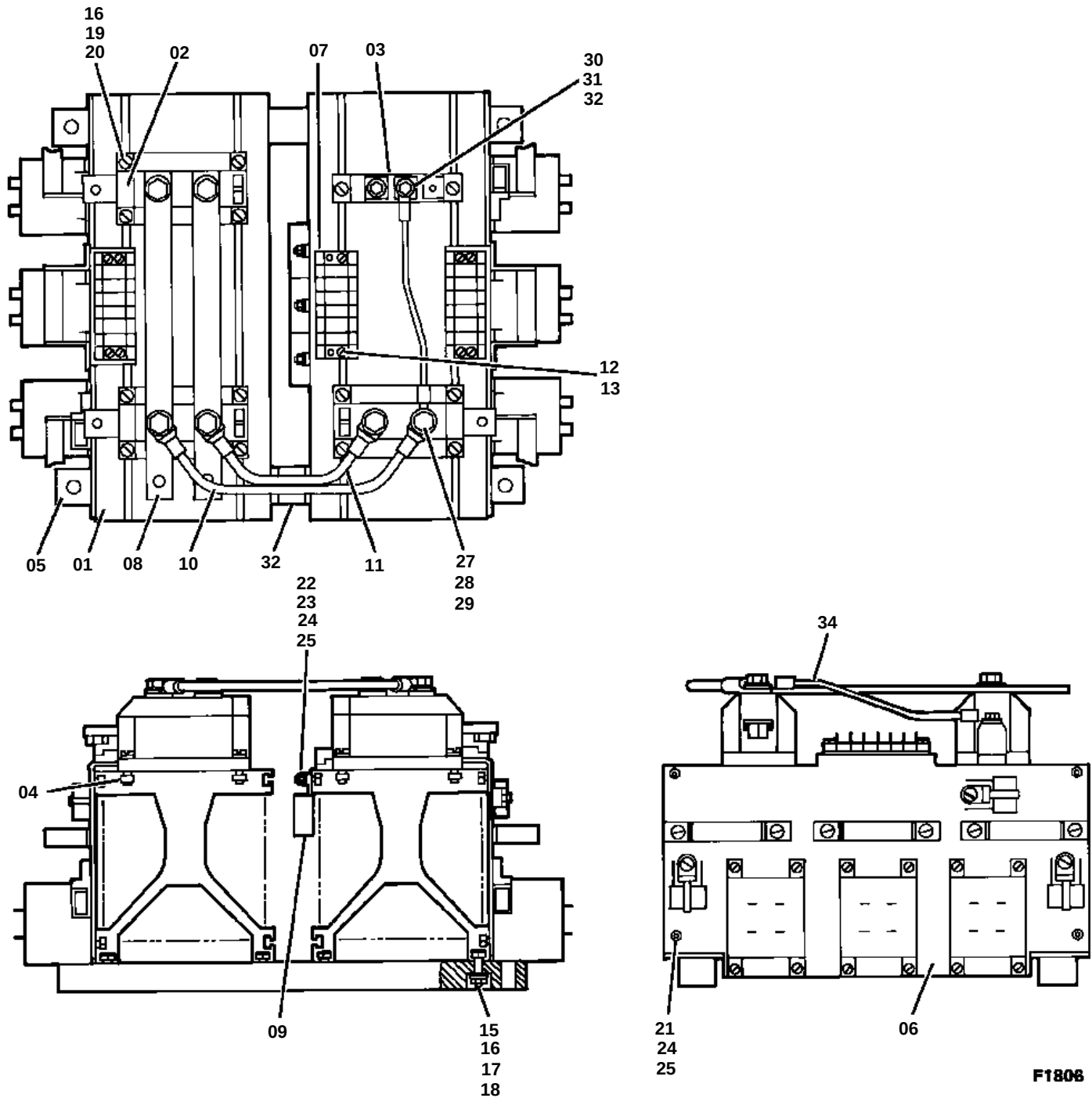


HEAT SINK SUBASSEMBLY, HOIST

REF	PART NO.	DESCRIPTION	QTY	PAGE
	979A1628F2	HEAT SINK SUBASSEMBLY, HOIST		
01	79Z3840D2	• HEATSINK	2	
02	555Q237D1	• MODULE, Power	3	
03	555Q241D2	• MODULE, Power	1	
04	79F5048	• BAR, Nut	4	
05	16F8882	• SUPPORT, Heatsink	2	
06	979E700F2	• TRANSFORMER, Pulse	2	12-6
07	79Q251D6	• BLOCK, Terminal	1	
08	79F5049	• BAR, Bus	2	
09	80Q86D9	• VARISTOR	3	
10	79F3522D12	• CABLE, Jumper	1	
11	79F3522D11	• CABLE, Jumper	1	
12	0862V063	• SCREW, Pan hd mach #6-32UNC X 5/8in lg.	2	
13	3616V003	• WASHER, Lock #6	2	
14	555Z223D4	• TERMINAL	12	
15	0846V085	• SCREW, Hex hd cap #10-24UNC X 3/4in lg.	8	
16	3631V004	• WASHER, Flat #10	22	
17	3616V005	• WASHER, Lock #10	8	
18	2136V005	• NUT, Hex #10-24UNC	8	
19	555Z222D70	• SCREW, Flat hd mach #10-32UNC X 3/4in lg.	14	
20	555Q236D51	• SPRING, Disc #10	14	
21	0827M04012	• SCREW, Hex hd cap M4 X 12mm lg.	8	
22	0827M04016	• SCREW, Hex hd cap M4 X 16mm lg.	3	
23	3612M004	• WASHER, Flat M4	3	
24	3615M004	• WASHER, Lock M4	11	
25	2145M004	• NUT, Hex M4	11	
26	79Z2716D7	• TERMINAL, 90 deg,24		
27	0827M08016	• SCREW, Hex hd cap M8 X 16mm lg.	6	
28	3612M008	• WASHER, Flat M8	6	
29	3615M008	• WASHER, Lock M8	6	
30	0827M05010	• SCREW, Hex hd cap M5 X 10mm lg.	2	
31	3612M005	• WASHER, Flat M5	2	
32	3615M005	• WASHER, Lock M5	2	
33	32Q526D29	• DECAL	1	
34	79F3522D10	• CABLE, Jumper	1	



HEAT SINK SUBASSEMBLY, CROWD



F1808

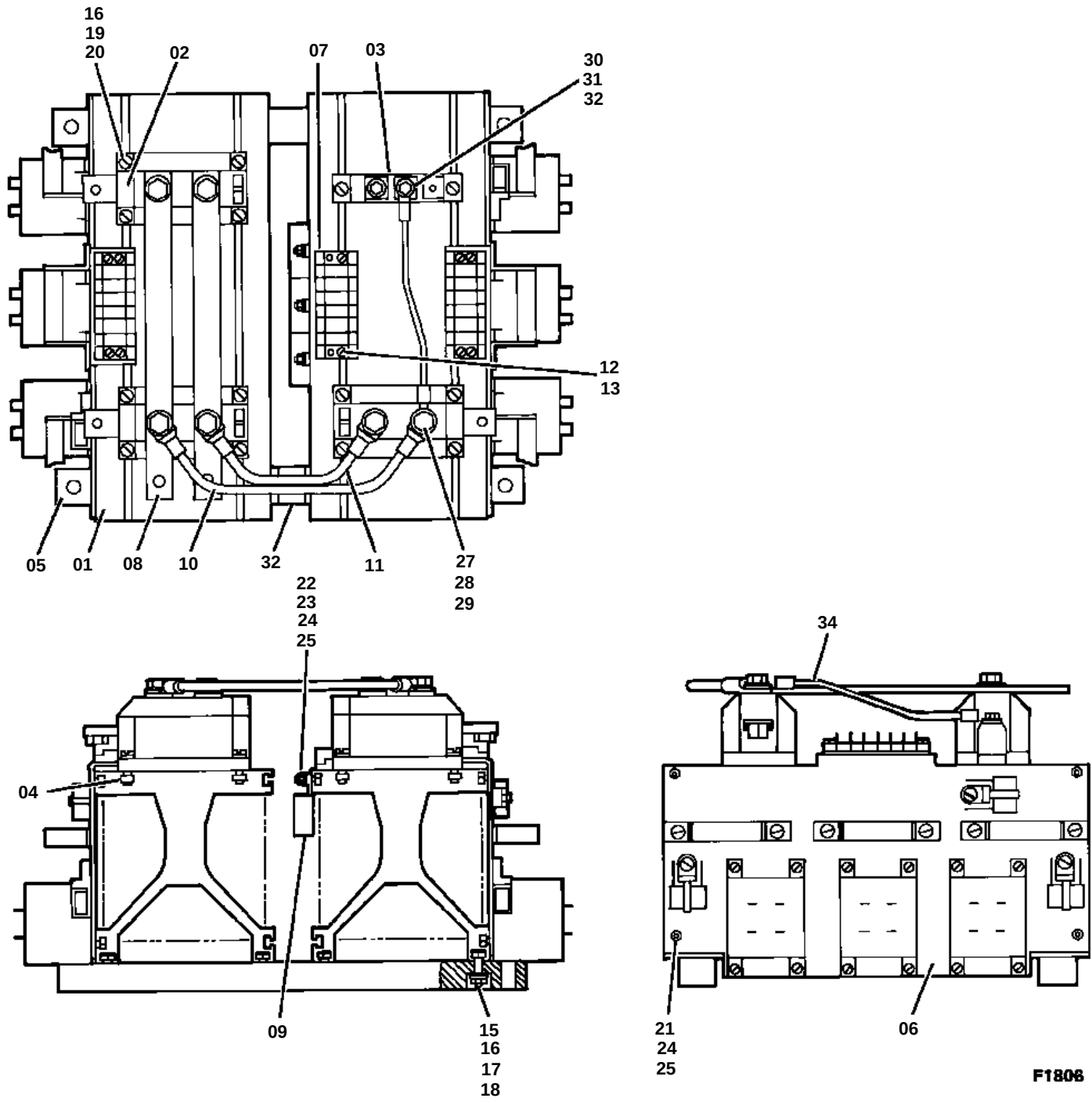


HEAT SINK SUBASSEMBLY, CROWD

REF	PART NO.	DESCRIPTION	QTY	PAGE
	979A1628F3	HEAT SINK SUBASSEMBLY, CROWD		
01	79Z3840D2	• HEATSINK	2	
02	555Q237D1	• MODULE, Power	3	
03	555Q241D2	• MODULE, Power	1	
04	79F5048	• BAR, Nut	4	
05	16F8882	• SUPPORT, Heatsink	2	
06	979E700F2	• TRANSFORMER, Pulse	2	12-6
07	79Q251D6	• BLOCK, Terminal	1	
08	79F5049	• BAR, Bus	2	
09	80Q86D9	• VARISTOR	3	
10	79F3522D12	• CABLE, Jumper	1	
11	79F3522D11	• CABLE, Jumper	1	
12	0862V063	• SCREW, Pan hd mach #6-32UNC X 5/8in lg.	2	
13	3616V003	• WASHER, Lock #6	2	
14	555Z223D4	• TERMINAL	12	
15	0846V085	• SCREW, Hex hd cap #10-24UNC X 3/4in lg.	8	
16	3631V004	• WASHER, Flat #10	22	
17	3616V005	• WASHER, Lock #10	8	
18	2136V005	• NUT, Hex #10-24UNC	8	
19	555Z222D70	• SCREW, Flat hd mach #10-32UNC X 3/4in lg.	14	
20	555Q236D51	• SPRING, Disc #10	14	
21	0827M04012	• SCREW, Hex hd cap M4 X 12mm lg.	8	
22	0827M04016	• SCREW, Hex hd cap M4 X 16mm lg.	3	
23	3612M004	• WASHER, Flat M4	3	
24	3615M004	• WASHER, Lock M4	11	
25	2145M004	• NUT, Hex M4	11	
26	79Z2716D7	• TERMINAL, 90 deg,24		
27	0827M08016	• SCREW, Hex hd cap M8 X 16mm lg.	6	
28	3612M008	• WASHER, Flat M8	6	
29	3615M008	• WASHER, Lock M8	6	
30	0827M05010	• SCREW, Hex hd cap M5 X 10mm lg.	2	
31	3612M005	• WASHER, Flat M5	2	
32	3615M005	• WASHER, Lock M5	2	
33	32Q526D29	• DECAL	1	
34	79F3522D10	• CABLE, Jumper	1	



HEAT SINK SUBASSEMBLY, SWING



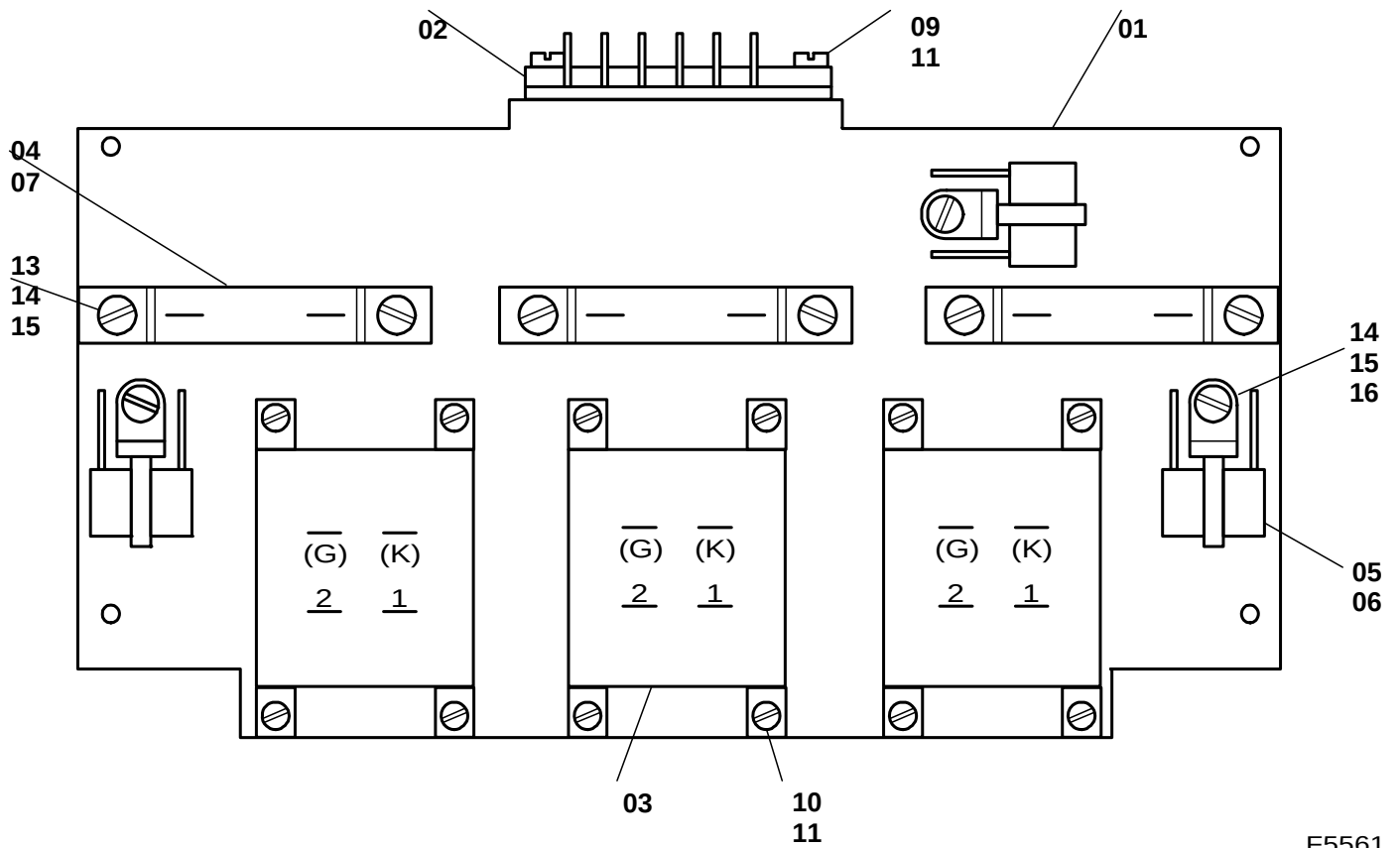


HEAT SINK SUBASSEMBLY, SWING

REF	PART NO.	DESCRIPTION	QTY	PAGE
	979A1628F4	HEAT SINK SUBASSEMBLY, SWING		
01	79Z3840D2	• HEATSINK	2	
02	555Q237D1	• MODULE, Power	3	
03	555Q241D2	• MODULE, Power	1	
04	79F5048	• BAR, Nut	4	
05	16F8882	• SUPPORT, Heatsink	2	
06	979E700F2	• TRANSFORMER, Pulse	2	12-6
07	79Q251D6	• BLOCK, Terminal	1	
08	79F5049	• BAR, Bus	2	
09	80Q86D9	• VARISTOR	3	
10	79F3522D12	• CABLE, Jumper	1	
11	79F3522D11	• CABLE, Jumper	1	
12	0862V063	• SCREW, Pan hd mach #6-32UNC X 5/8in lg.	2	
13	3616V003	• WASHER, Lock #6	2	
14	555Z223D4	• TERMINAL	12	
15	0846V085	• SCREW, Hex hd cap #10-24UNC X 3/4in lg.	8	
16	3631V004	• WASHER, Flat #10	22	
17	3616V005	• WASHER, Lock #10	8	
18	2136V005	• NUT, Hex #10-24UNC	8	
19	555Z222D70	• SCREW, Flat hd mach #10-32UNC X 3/4in lg.	14	
20	555Q236D51	• SPRING, Disc #10	14	
21	0827M04012	• SCREW, Hex hd cap M4 X 12mm lg.	8	
22	0827M04016	• SCREW, Hex hd cap M4 X 16mm lg.	3	
23	3612M004	• WASHER, Flat M4	3	
24	3615M004	• WASHER, Lock M4	11	
25	2145M004	• NUT, Hex M4	11	
26	79Z2716D7	• TERMINAL, 90 deg,24		
27	0827M08016	• SCREW, Hex hd cap M8 X 16mm lg.	6	
28	3612M008	• WASHER, Flat M8	6	
29	3615M008	• WASHER, Lock M8	6	
30	0827M05010	• SCREW, Hex hd cap M5 X 10mm lg.	2	
31	3612M005	• WASHER, Flat M5	2	
32	3615M005	• WASHER, Lock M5	2	
33	32Q526D29	• DECAL	1	
34	79F3522D10	• CABLE, Jumper	1	



TRANSFORMER, PULSE



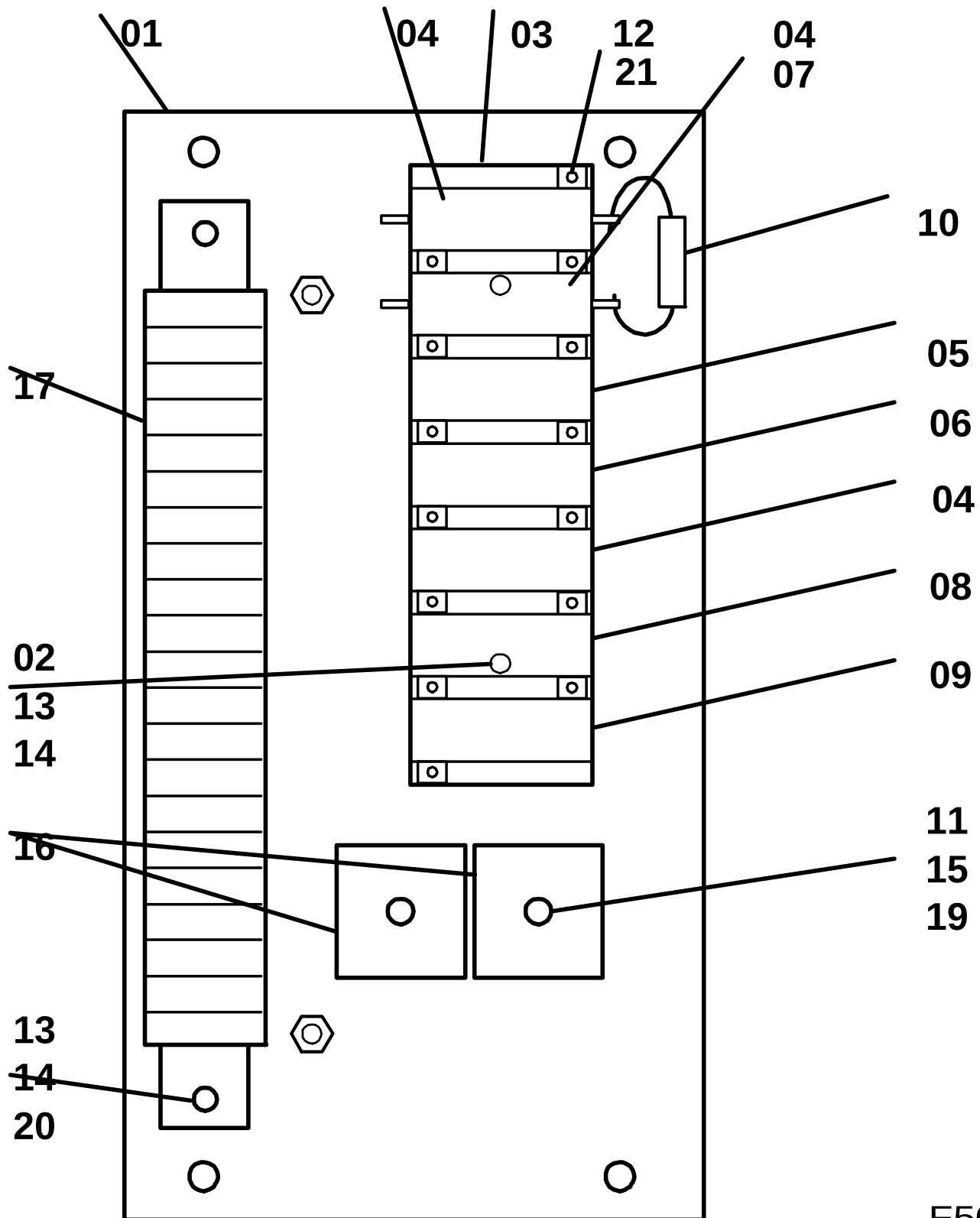
F5561

TRANSFORMER, PULSE

REF	PART NO.	DESCRIPTION	QTY
	979E700F2	TRANSFORMER, PULSE	
01	79E6025	• PANEL, Suppression	1
02	79Q251D6	• BLOCK, Terminal 6 Position	1
03	R19342D1	• TRANSFORMER, Pulse	3
04	80Z160D2	• RESISTOR, 50 ohm, 25W	3
05	84Z200D7	• FILTER, R-C	3
06	32Z890D8	• TIE, Wire	3
07	16Z315D5	• BRACKET, Resistor Mounting	3
08		NOT USED	
09	0862V061	• SCREW, Pan Hd Mach #6-32UNF x 1/2 in	4
10	0862V058	• SCREW, Pan Hd Mach #6-32UNF x 5/16 in	12
11	18Z733D5	• WASHER, Lock - Internal Tooth #6	16
12		NOT USED	
13	0862V093	• SCREW, Pan Hd Mach #10-24UNC x 5/16 in	6
14	3631V004	• WASHER, Plain #10	9
15	18Z733D7	• WASHER, Lock - Internal Tooth #10	9
16	0862V096	• SCREW, Pan Hd Mach #10-24UNC x 1/2 in	3



FEEDBACK ADJUSTMENT



F5092A



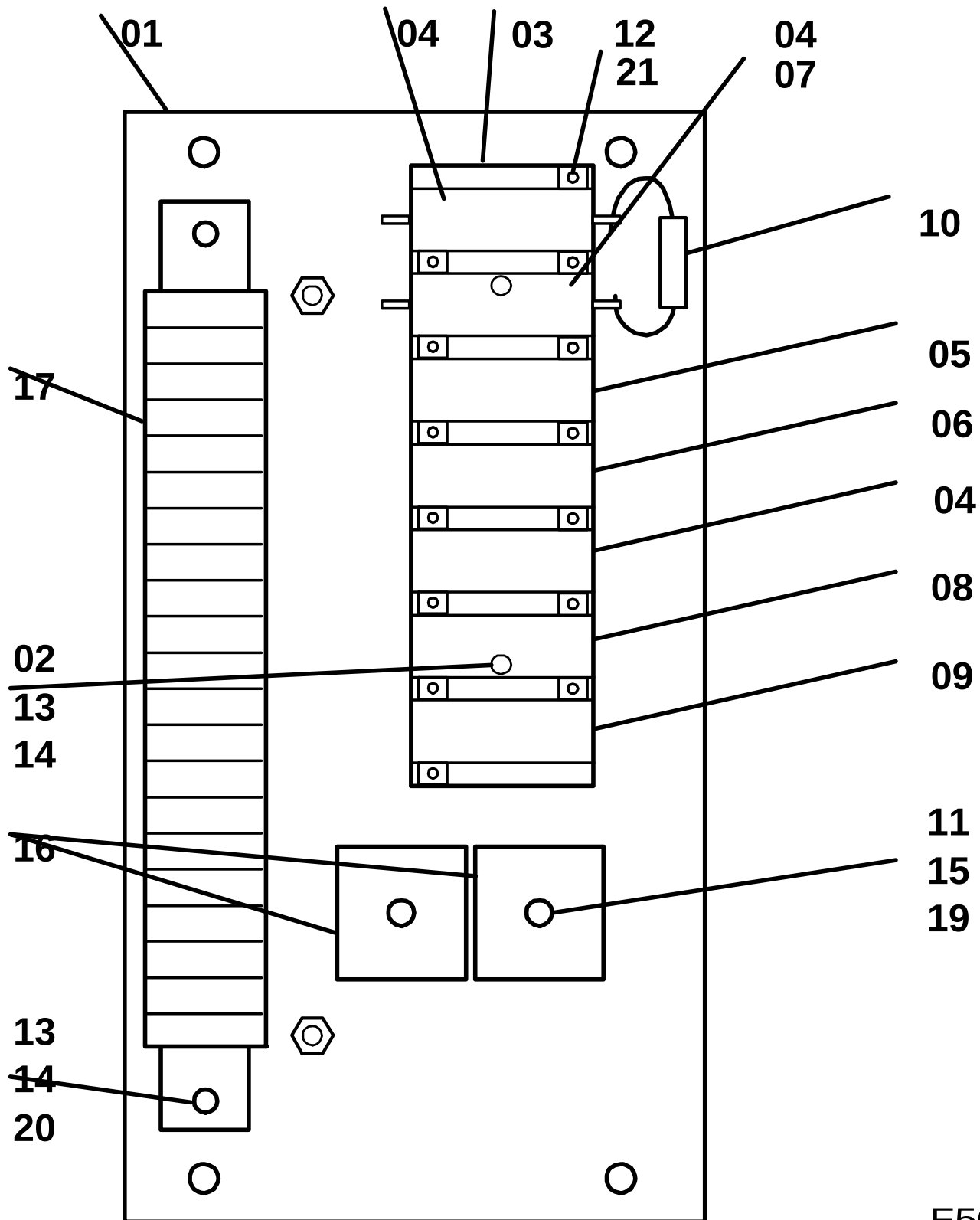
Machine Serial Number: **4184**

FEEDBACK ADJUSTMENT

REF	PART NO.	DESCRIPTION	QTY
	R19116F1	FEEDBACK ADJUSTMENT	
01	79F5047	• PANEL, Terminal mounting	1
02	0862V098	• SCREW, Pn Hd Mach #10-24UNC x 5/8 in lg.	2
03	79H2172	• HEATSINK	1
04	80Z252D62	• RESISTOR, 3Kilohm + 1% 50W	2
05	80Z252D50	• RESISTOR, 400 Ohm + 1% 50W	1
06	80Z252D47	• RESISTOR, 2.50 Ohm + 1% 50W	1
07	80Z252D54	• RESISTOR, 1.0 Kilohm + 1% 50W	1
08	80Z252D15	• RESISTOR, 15 Ohm + 1% 50W	1
09	80Z252D70	• RESISTOR, 500 Ohm + 1% 50W	1
10	80Z1246D155	• RESISTOR, 1.82 Kilohm + 1% 10W	1
11	0862V082	• SCREW, Pn Hd Mach #8-32UNC x 1 in lg.	3
12	0860V005	• SCREW, Rd Hd Mach #4-40UNC x 3/8 in lg.	14
13	3616V005	• WASHER, Lock - Helical Spring #10	4
14	3631V004	• WASHER, Plain #10	4
15	3631V003	• WASHER, Plain #8	9
16	75Z1091D1	• RECTIFIER, Full Wave w/Suppressor	2
17	79H2159D21	• BLOCK, Terminal 21 position	1
18	21Z808D1	• COMPOUND, Thermal joint	AR
19	3616V004	• WASHER, Lock - Helical Spring #8	9
20	0862V094	• SCREW, Pn Hd Mach #10-24UNC x 3/8 in lg.	2
21	3616V002	• WASHER, Lock - Helical Spring #4	14



FEEDBACK ADJUSTMENT



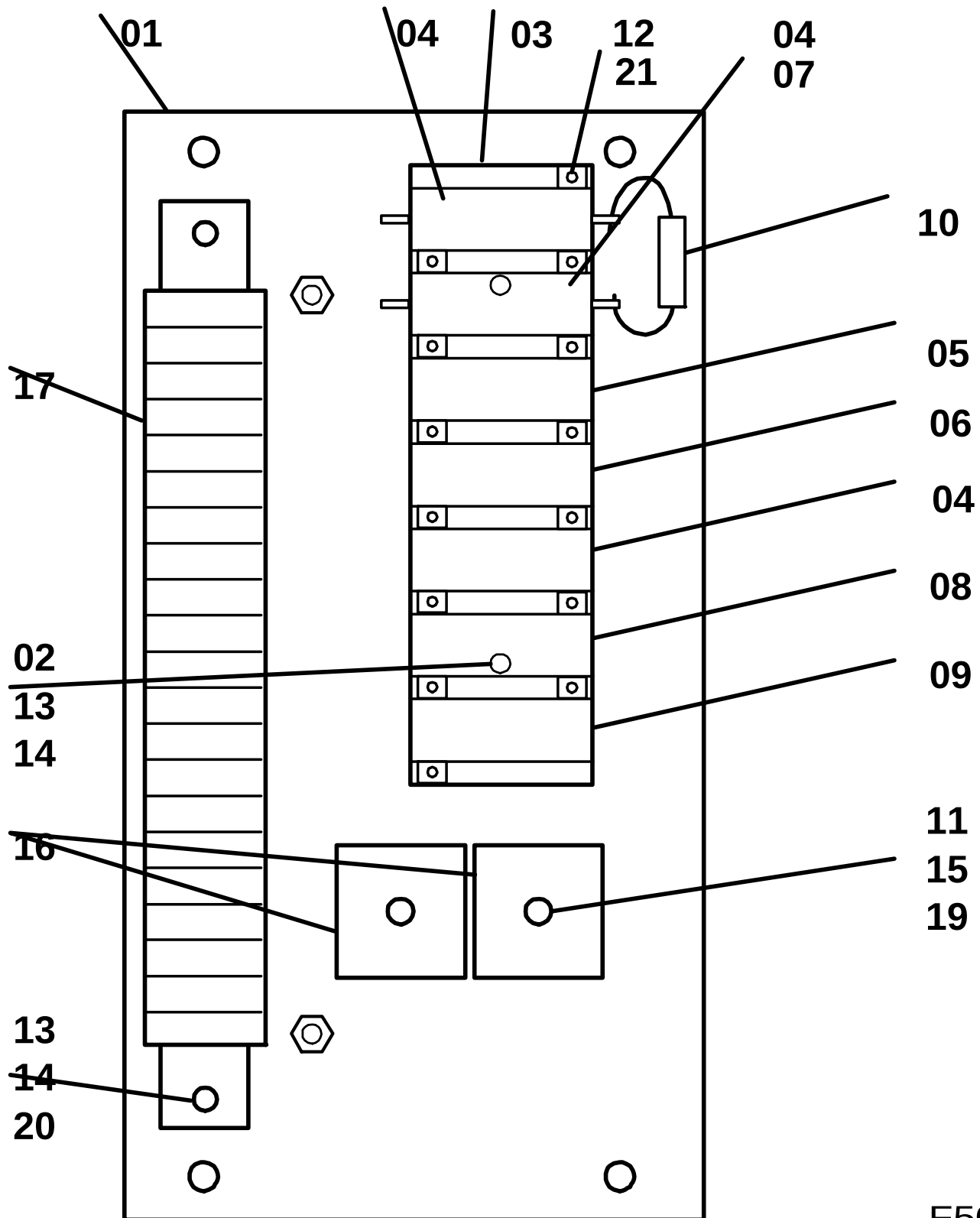
F5092A

FEEDBACK ADJUSTMENT

REF	PART NO.	DESCRIPTION	QTY
	R19116F2	FEEDBACK ADJUSTMENT	
01	79F5047	• PANEL, Terminal mounting	1
02	0862V098	• SCREW, Pn Hd Mach #10-24UNC x 5/8 in lg.	2
03	79H2172	• HEATSINK	1
04	80Z252D62	• RESISTOR, 3Kilohm + 1% 50W	2
05	80Z252D50	• RESISTOR, 400 Ohm + 1% 50W	1
06	80Z252D22	• RESISTOR, 3.24 Ohm + 1% 50W	1
07		NOT USED	
08		NOT USED	
09	80Z252D70	• RESISTOR, 500 Ohm + 1% 50W	1
10	80Z1246D155	• RESISTOR, 1.82 Kilohm + 1% 10W	1
11	0862V082	• SCREW, Pn Hd Mach #8-32UNC x 1 in lg.	3
12	0860V005	• SCREW, Rd Hd Mach #4-40UNC x 3/8 in lg.	10
13	3616V005	• WASHER, Lock - Helical Spring #10	4
14	3631V004	• WASHER, Plain #10	4
15	3631V003	• WASHER, Plain #8	9
16	75Z1091D1	• RECTIFIER, Full Wave w/Suppressor	2
17	79H2159D21	• BLOCK, Terminal 21 position	1
18	21Z808D1	• COMPOUND, Thermal joint	AR
19	3616V004	• WASHER, Lock - Helical Spring #8	9
20	0862V094	• SCREW, Pn Hd Mach #10-24UNC x 3/8 in lg.	2
21	3616V002	• WASHER, Lock - Helical Spring #4	10



FEEDBACK ADJUSTMENT



F5092A

FEEDBACK ADJUSTMENT

REF	PART NO.	DESCRIPTION	QTY
	R19116F3	FEEDBACK ADJUSTMENT	
01	79F5047	• PANEL, Terminal mounting	1
02	0862V098	• SCREW, Pn Hd Mach #10-24UNC x 5/8 in lg.	2
03	79H2172	• HEATSINK	1
04	80Z252D62	• RESISTOR, 3Kilohm + 1% 50W	2
05	80Z252D50	• RESISTOR, 400 Ohm + 1% 50W	1
06	80Z252D47	• RESISTOR, 2.50 Ohm + 1% 50W	1
07		NOT USED	
08	80Z252D49	• RESISTOR, 7.5 Ohm + 1% 50W	1
09	80Z252D70	• RESISTOR, 500 Ohm + 1% 50W	1
10	80Z1246D155	• RESISTOR, 1.82 Kilohm + 1% 10W	1
11	0862V082	• SCREW, Pn Hd Mach #8-32UNC x 1 in lg.	2
12	0860V005	• SCREW, Rd Hd Mach #4-40UNC x 3/8 in lg.	12
13	3616V005	• WASHER, Lock - Helical Spring #10	4
14	3631V004	• WASHER, Plain #10	4
15	3631V003	• WASHER, Plain #8	9
16	75Z1091D1	• RECTIFIER, Full Wave w/Suppressor	2
17	79H2159D21	• BLOCK, Terminal 21 position	1
18	21Z808D1	• COMPOUND, Thermal joint	AR
19	3616V004	• WASHER, Lock - Helical Spring #8	9
20	0862V094	• SCREW, Pn Hd Mach #10-24UNC x 3/8 in lg.	2
21	3616V002	• WASHER, Lock - Helical Spring #4	12



Machine
Serial Number: **4184**

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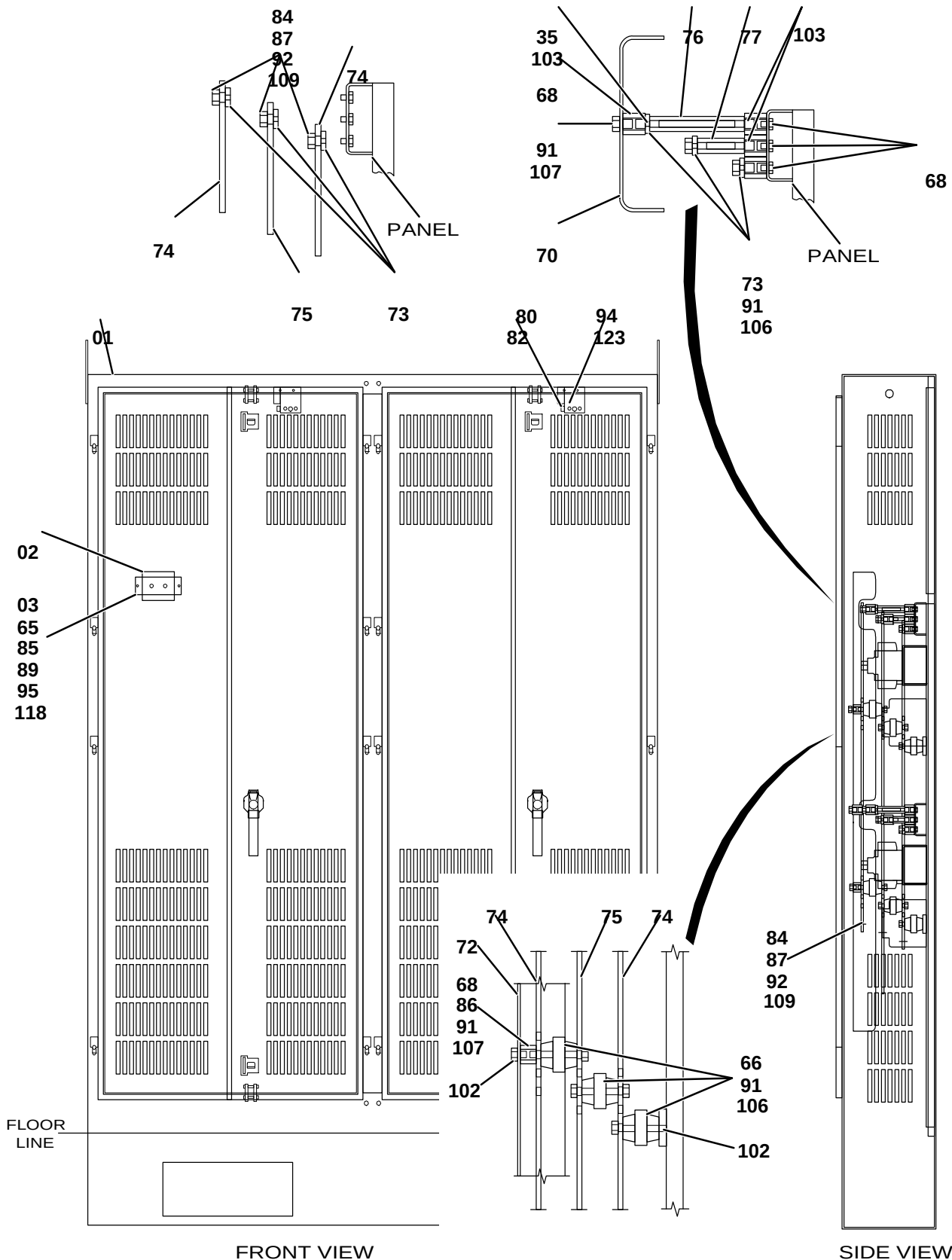


Group 13 - Control Cabinets Under Cab

Description	Page
CABINET, AUXILIARY	13-1

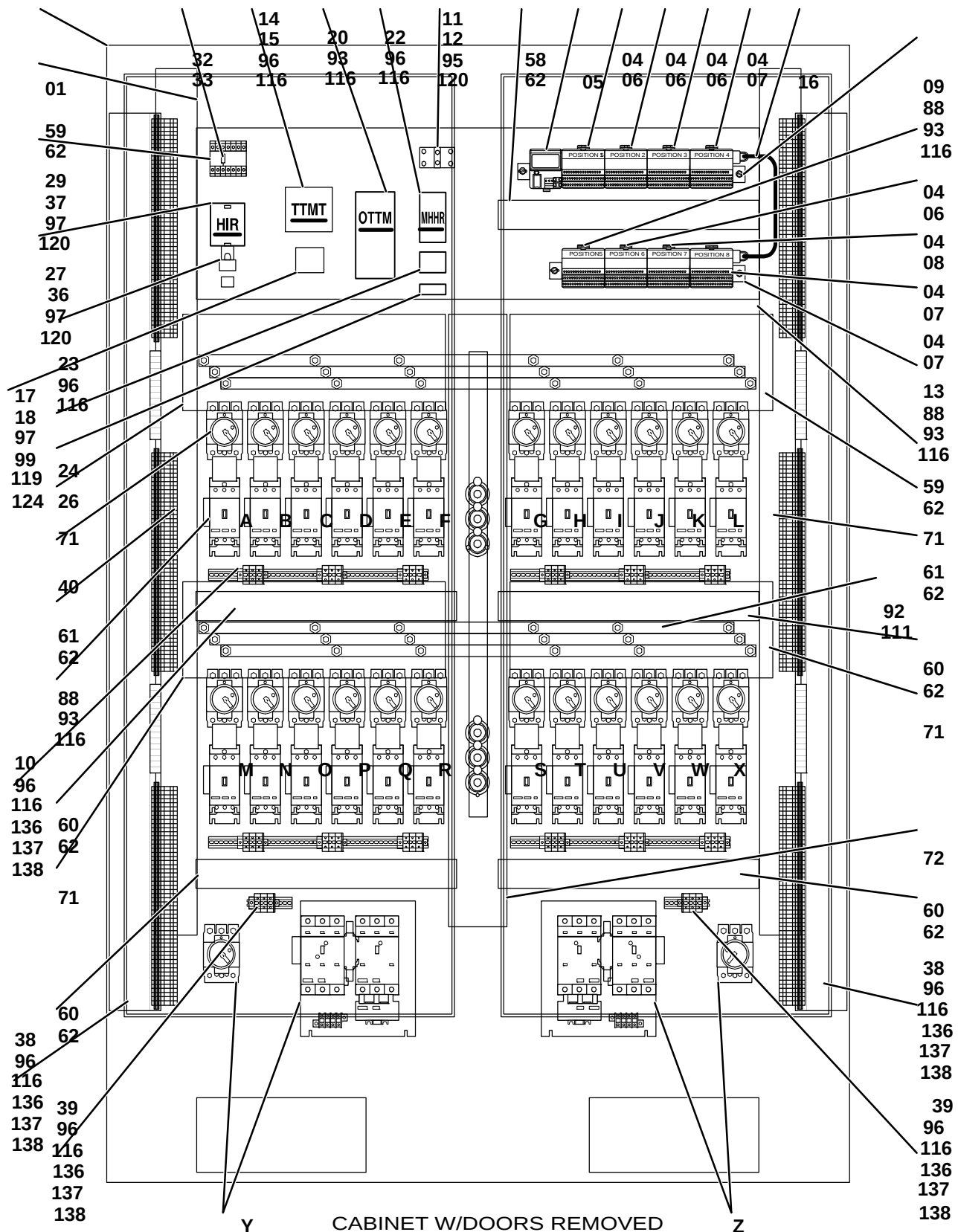


CABINET, AUXILIARY



F6616

CABINET, AUXILIARY



F6616A



CABINET, AUXILIARY

REF	PART NO.	DESCRIPTION	QTY
	R27315F41/F15	CABINET, AUXILIARY	
01	R28873F1	• CABINET	1
	R25876D4	• • LATCH, Door (Not Shown)	2
	330241782	• • GASKET, Self adhesive 1/2 x 1 x 735 in lg (Not Shown)	AR
02	89Z387	• VOLTMETER	1
03	R23267D1	• INSULATOR, Meter	1
04	R14217D14	• TERMINAL, Base	8
05	R14217D2	• ADAPTER, Remote I/O	1
06	R14217D4	• MODULE, Input 120V	4
07	R14217D15	• MODULE, Relay Output	3
08	R14217D15	• MODULE, Relay Output	1
09	79Q1676D2	• CHANNEL x 20 in lg	AR
10	79Z2732D4	• CHANNEL x 18-5/8 in lg	AR
11	79Z4641D2	• FUSE, Block	1
12	79Z4645D6	• FUSE, 600V	2
13	79Q1676D2	• CHANNEL x 16-5/8 in lg	AR
14	79Q1432D12	• RELAY, Overload 30 AMP	1
15	80Z1022D24	• ELEMENT, Heater	3
16	R14217D26	• CABLE, Interconnect	1
17	80Z252D66	• RESISTOR 50 watt, 1.75 Ohm	1
18	16H4754	• BRACKET, Resistor Mount	1
19		NOT USED	
20	100E5237-301	• RELAY, Electronic	1
21		NOT USED	
22	79Z1887D32	• RELAY, 7 Pole	1
23	79Z2475D7	• RCV	1
24	75Q284D7	• RECTIFIER, 600V	1
25		NOT USED	
26	32Z1581D5	• DECAL, Danger 460 VOLTS	1
27	32Z1581D6	• DECAL, Danger 460 VOLTS	1
28		NOT USED	
29	79Z1813	• TRACK, Mounting 3 in lg	AR
30		NOT USED	
31		NOT USED	
32	79U2522D1	• TERMINALS, #5, #6 22-16 AWG	2
33	80Z824D113	• RESISTOR	1
34		NOT USED	



CABINET, AUXILIARY

REF	PART NO.	DESCRIPTION	QTY
35	21Z729D3	• ADHESIVE	1
36	79Z3208D1	• RELAY, 4 Pole, 600VDC	1
37	979H152F1	• BLOCK, Terminal	1
38	79Z2732D4	• CHANNEL x 36-5/8 in lg	AR
39	79Z2732D4	• CHANNEL x 3-1/2 in lg	AR
40	R27495D1	• CIRCUIT BREAKER, Operator	16
41		NOT USED	
42		NOT USED	
43		NOT USED	
44		NOT USED	
45		NOT USED	
46		NOT USED	
47		NOT USED	
48		NOT USED	
49		NOT USED	
50		NOT USED	
51		NOT USED	
52		NOT USED	
53		NOT USED	
54		NOT USED	
55		NOT USED	
56		NOT USED	
57		NOT USED	
58	79Z566D5	• WIRING DUCT, W/Cover 2 x 3 x 22 in lg (Not Shown)	AR
59	79Z566D4	• WIRING DUCT, W/Cover 3 x 3 x 48-1/4 in lg (Not Shown)	AR
60	79Z566D5	• WIRING DUCT, W/Cover 2 x 3 x 22-9/16 in lg (Not Shown)	AR
61	79Z566D4	• WIRING DUCT, W/Cover 3 x 3 x 72 in lg (Not Shown)	AR
62	20Z1684D1	• RIVET	75
63		NOT USED	
64	R31508D1	• SPACER	1
65	79Q1505D25	• SPACER, 1 in lg	2
66	79Z2705D7	• INSULATOR	6
67		NOT USED	
68	79Z2752D5	• INSULATOR, Hex 3/8 in	50
69		NOT USED	
70		NOT USED	
71	R35263D1	• COVER, Horizontal	4



CABINET, AUXILIARY

REF	PART NO.	DESCRIPTION	QTY
72	R35262D1	• COVER, Vertical	1
73	R29383D1	• BUS BAR, (Horizontal)	6
74	R29382D1	• BUS BAR, (Vertical)	2
75	R29891D1	• BUS BAR, (Center Vertical)	1
76	518F134D147	• TUBE, Insulation	12
77	518F134D148	• TUBE, Insulation	12
78		NOT USED	
79		NOT USED	
80	79Z1803D3	• DOOR, Interlock	2
81		NOT USED	
82	79F4213	• DOOR, Interlock Insulator	2
83		NOT USED	
84	20Q270D16	• NUT, Hex 1/4-20UNC	9
85	2136V004	• NUT, Mach #8-32UNC	14
86	3631V007	• WASHER, Plain 3/8 in	14
87	3631V005	• WASHER, Plain 1/4 in	9
88	3631V004	• WASHER, Plain #10	59
89	3631V003	• WASHER, Plain #8	18
90		NOT USED	
91	3616V009	• WASHER, Lock 3/8 in	50
92	3616V007	• WASHER, Lock 1/4 in	93
93	3616V005	• WASHER, Lock #10	93
94	3616V003	• WASHER, Lock #6	4
95	3616V004	• WASHER, Lock #8	6
96	18Z733D7	• WASHER, Lock #10	50
97	18Z733D6	• WASHER, Lock #8	20
98		NOT USED	
99	18Z733D4	• WASHER, Lock #4	2
100		NOT USED	
101		NOT USED	
102	0682V061	• SCREW, Set 3/8-16UNC x 3/4 in lg	4
103	0682V063	• SCREW, Set 3/8-16UNC x 1 in lg	36
104		NOT USED	
105		NOT USED	
106	20Q260D256	• SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in lg	44
107	20Q260D253	• SCREW, Hex Hd Cap 3/8-16UNC x 1/2 in lg	14
108		NOT USED	



CABINET, AUXILIARY

REF	PART NO.	DESCRIPTION	QTY
109	0862V138	• SCREW, Pan Hd Mach 1/4-20UNC x 1 in lg	9
110		NOT USED	
111	0862V133	• SCREW, Pan Hd Mach 1/4-20UNC x 1/2 in lg	84
112		NOT USED	
113		NOT USED	
114		NOT USED	
115		NOT USED	
116	0862V096	• SCREW, Pan Hd Mach 3/16-24UNC x 1/2 in lg	143
117		NOT USED	
118	0862V085	• SCREW, Pan Hd Mach 5/32-32UNC x 1-1/2 in lg	2
119	0862V080	• SCREW, Pan Hd Mach 5/32-32UNC x 3/4 in lg	18
120	0862V077	• SCREW, Pan Hd Mach #8-32UNC x 1/2 in lg	6
121		NOT USED	
122		NOT USED	
123	0862V061	• SCREW, Pan Hd Mach 1/8-32UNC x 1/2 in lg	4
124	0862V027	• SCREW, Pan Hd Mach 7/64-40UNC x 3/8 in lg	2
125		NOT USED	
126		NOT USED	
127		NOT USED	
128		NOT USED	
129		NOT USED	
130	R30997D1	• CABLE	1
131		NOT USED	
132		NOT USED	
133		NOT USED	
134		NOT USED	
135		NOT USED	
136	79Z3459D3	• CLAMP, Mounting	40
137	79Z3459D1	• TERMINAL SECTION	372
138	79Z3459D2	• END BARRIER	20
139		NOT USED	
140	R47454D1	• MODULE, Metering-Test Tool (Not Shown)	1
141	R47454D2	• MODULE, Programing-Test Tool (Not Shown)	1
142	R47454D3	• CABLE, Module-Test Tool (Not Shown)	1
A	R27476D5	• CIRCUIT BREAKER	1
	R27475D3	• MOTOR STARTER, Non-Reversing	1



CABINET, AUXILIARY

REF	PART NO.	DESCRIPTION	QTY
B	R27476D5	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
C	R27476D3	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
D	R27476D3	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
E		NOT USED	
		NOT USED	
F		NOT USED	
		NOT USED	
G	R35681D8	· CIRCUIT BREAKER	1
		NOT USED	
H		NOT USED	
		NOT USED	
I	R27476D4	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
J	R27476D2	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
K	R27476D2	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
L		NOT USED	
		NOT USED	
M	R27476D2	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
N	R27476D2	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
O	R27476D2	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
P	R27476D1	· CIRCUIT BREAKER	1
	R27475D1	· MOTOR STARTER, Non-Reversing	1
Q	R27476D4	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	1
R	R27476D4	· CIRCUIT BREAKER	1
	R27475D3	· MOTOR STARTER, Non-Reversing	
S		NOT USED	
		NOT USED	
T		NOT USED	



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CABINET, AUXILIARY

REF	PART NO.	DESCRIPTION	QTY
T		NOT USED	
U		NOT USED	
		NOT USED	
V		NOT USED	
		NOT USED	
W	R27476D1	· CIRCUIT BREAKER	1
	R27475D1	· MOTOR STARTER, Non-Reversing	1
X		NOT USED	
		NOT USED	
Y	R27476D5	· CIRCUIT BREAKER	1
	R27223D1	· MOTOR STARTER, Reversing	1
Z	R27476D5	· CIRCUIT BREAKER	1
	R27223D1	· MOTOR STARTER, Reversing	1

Group 14 - Control Cabinets and Other Electrical Components

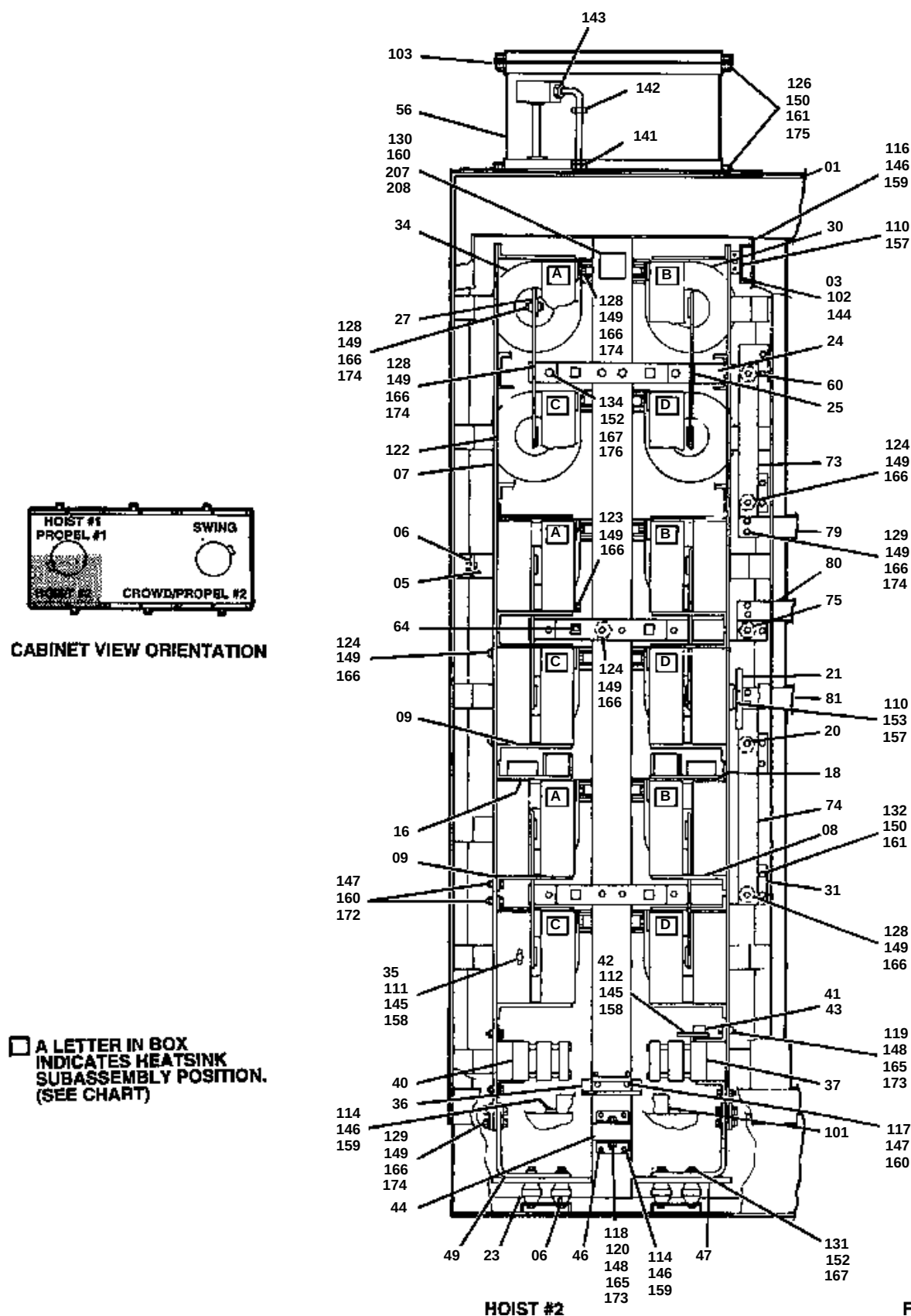
Description	Page
CABINET, CONVERTER	14-1
MODULE, RPC & SWITCHING CABINETS	14-17
CABINET, RPC---BANKS 1/2 AND 1	14-18
CABINET, RPC---BANKS 2 AND 3	14-19
RPC CABINET, THYRISTOR SWITCHING	14-20
INSTALLATION, RPC CABINET	14-26
MODULE, HIGH VOLTAGE CABINET	14-27
CABINET, HIGH-VOLTAGE	14-28
CABINET, GROUND-FAULT	14-30
MODULE, GROUND FAULT/FIELD BREAKER	14-31
PANEL, CIRCUIT-BREAKER, FIELD SUPPLY	14-32
CABINET, GROUND FAULT	14-33
LOAD CENTER, AUXILIARY	14-34
MODULE, TRANSFER CABINET	14-35
CABINET, TRANSFER CONTACTOR	14-36
MODULE, MAIN TRANSFORMER	14-43
PANEL, SUPPRESSION	14-44
LOAD CENTER, LIGHTING	14-45
HIGH-VOLTAGE DISCONNECT, LOWER	14-46
CONTACTOR, CAB FLOODLIGHT	14-47
BUS BAR ASSEMBLY	14-49
RESISTOR, DIPPER TRIP	14-58
SWITCH, SIGNAL	14-59
INSTALLATION KIT, REMOTE I/O ASSEMBLY	14-60
INSTALLATION KIT, REMOTE I/O ASSEMBLY	14-61
INSTALLATION KIT, REMOTE I/O ASSEMBLY	14-62
INSTALLATION KIT, REMOTE I/O ASSEMBLY	14-63
MISCELLANEOUS ELECTRICAL, BOOM	14-70



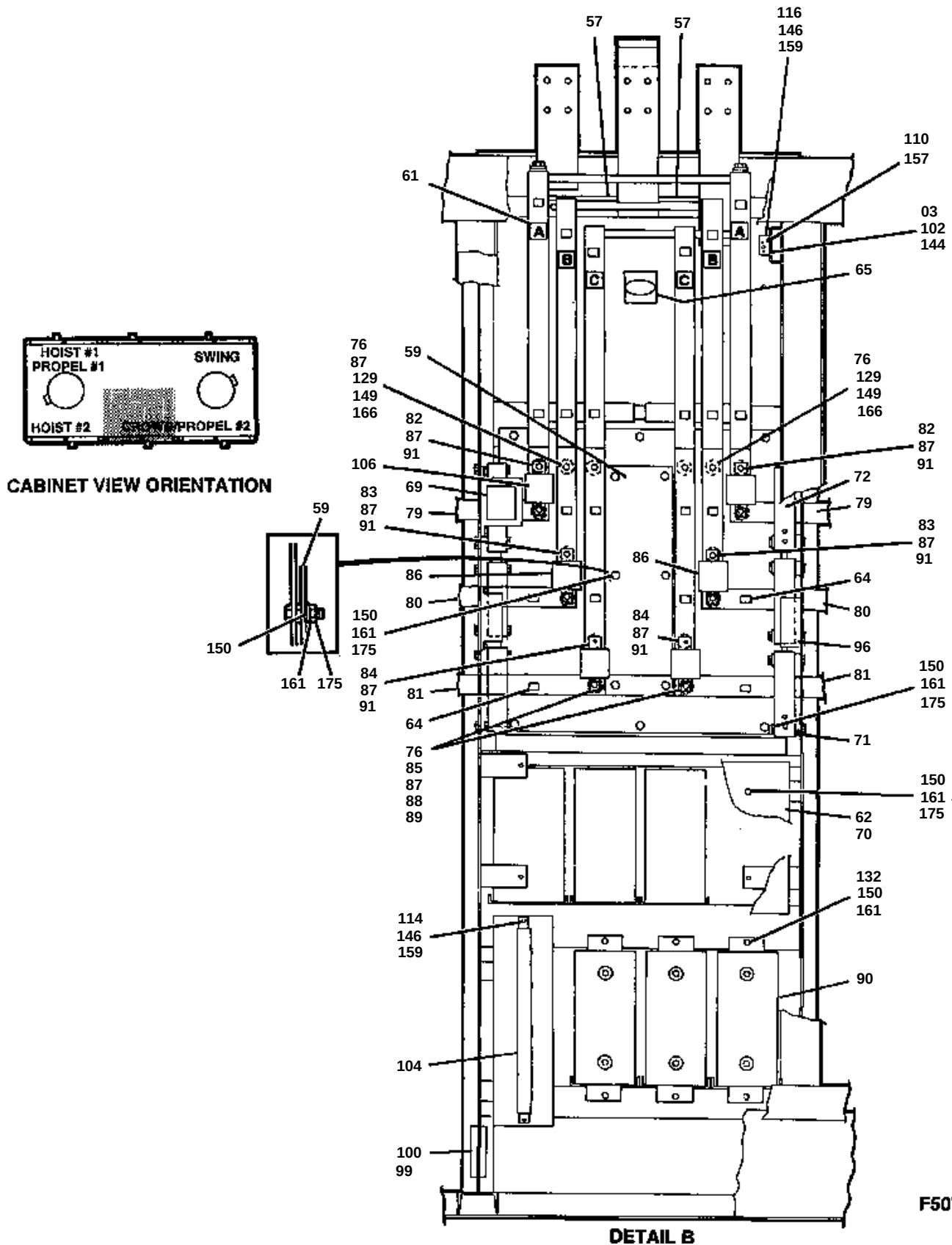
Group 14 - Control Cabinets and Other Electrical Components

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SIGN INSTALLATION	14-71
WELDER RECEPTACLES	14-72
KIT, REMOTE-CONTROL, HOIST	14-73
KIT, CABINET FILTERS	14-75
KIT, COMMUNICATION SYSTEM	14-76
KIT,TEMPERATURE MONITOR	14-68
KIT,TEMPERATURE MONITOR - HOIST BEARING & WINDING	14-69
MISCELLANEOUS ELECTRICAL COMPONENTS	14-77

CABINET ASSEMBLY, CONVERTER

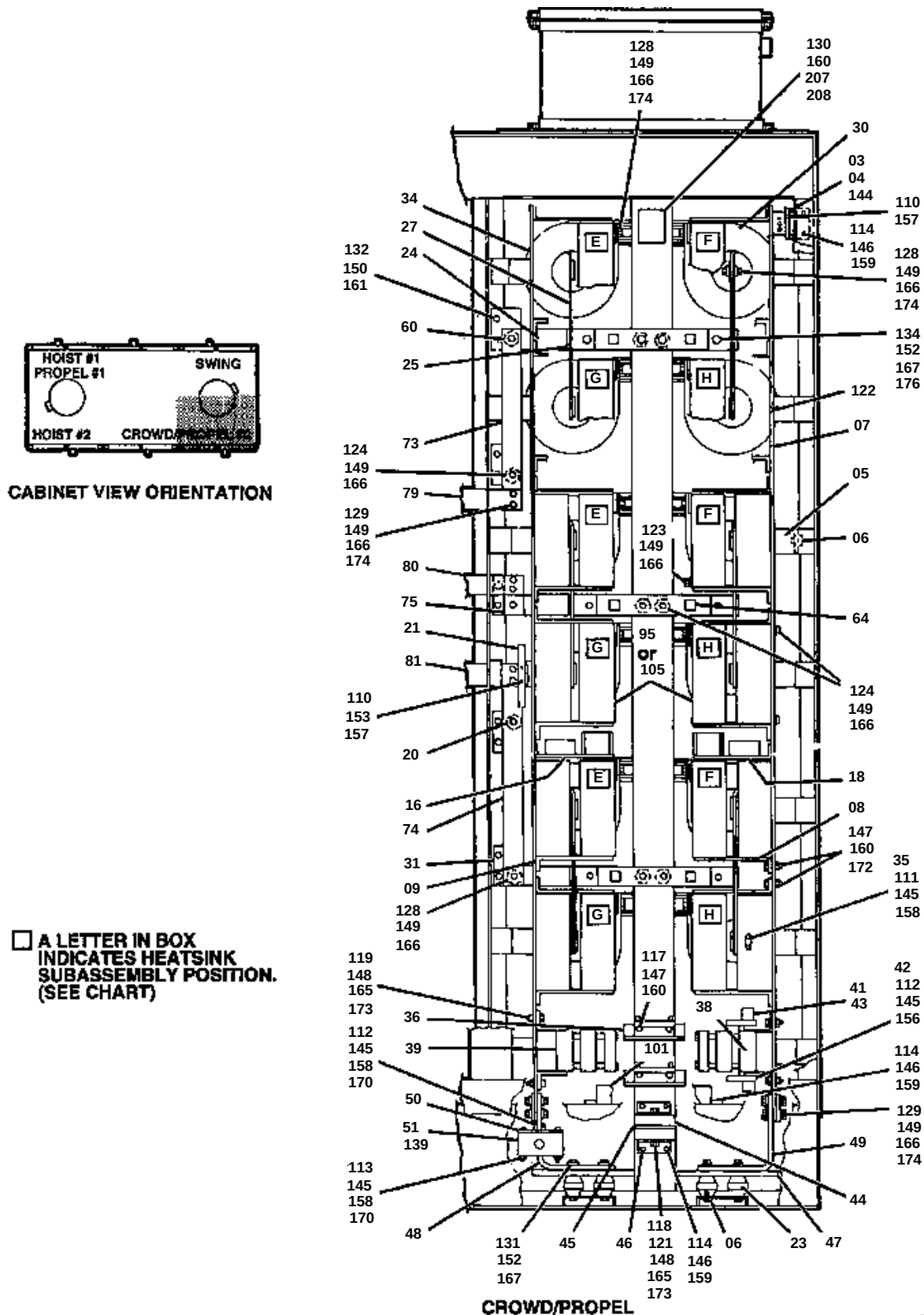


CABINET ASSEMBLY, CONVERTER





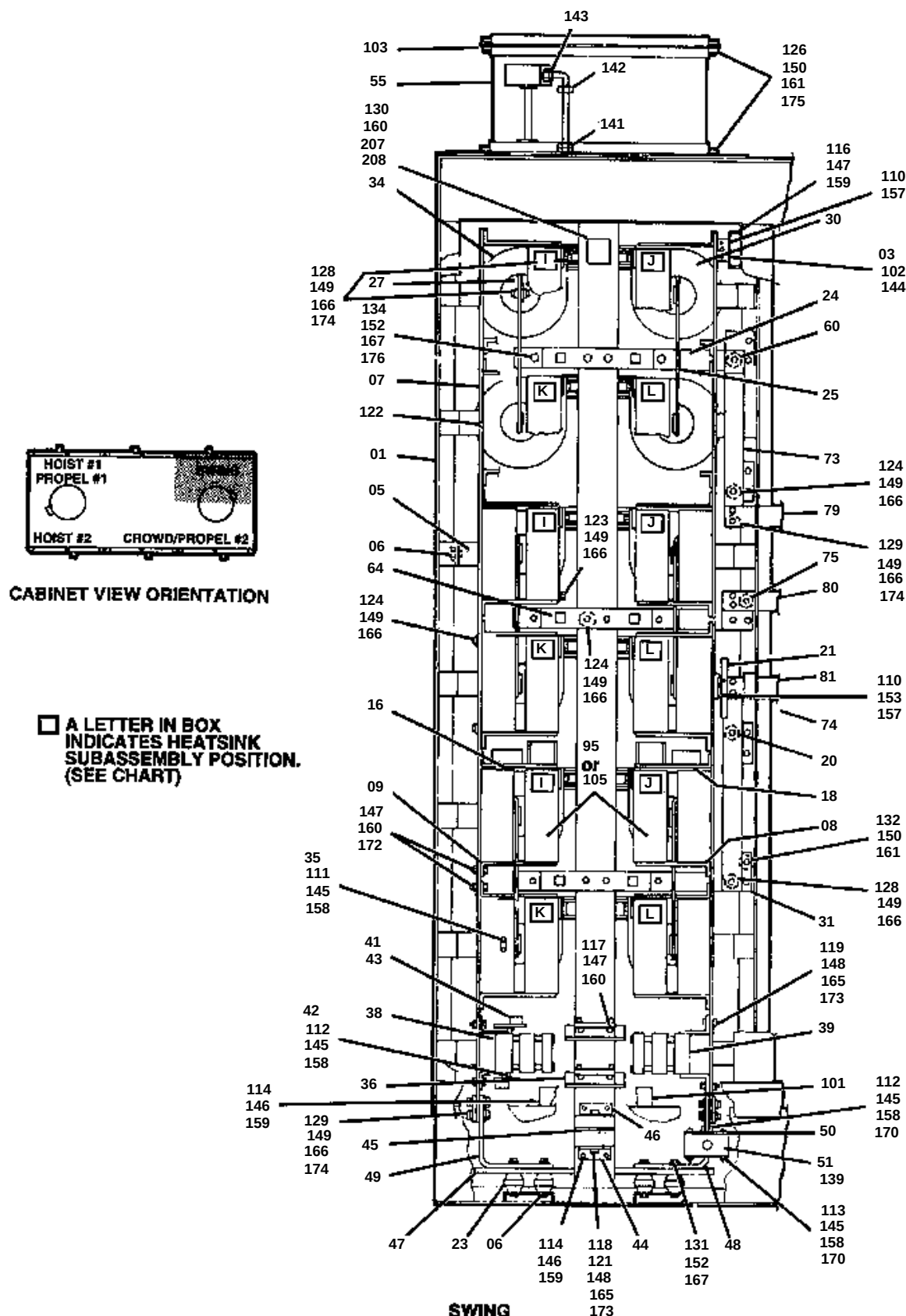
CABINET ASSEMBLY, CONVERTER



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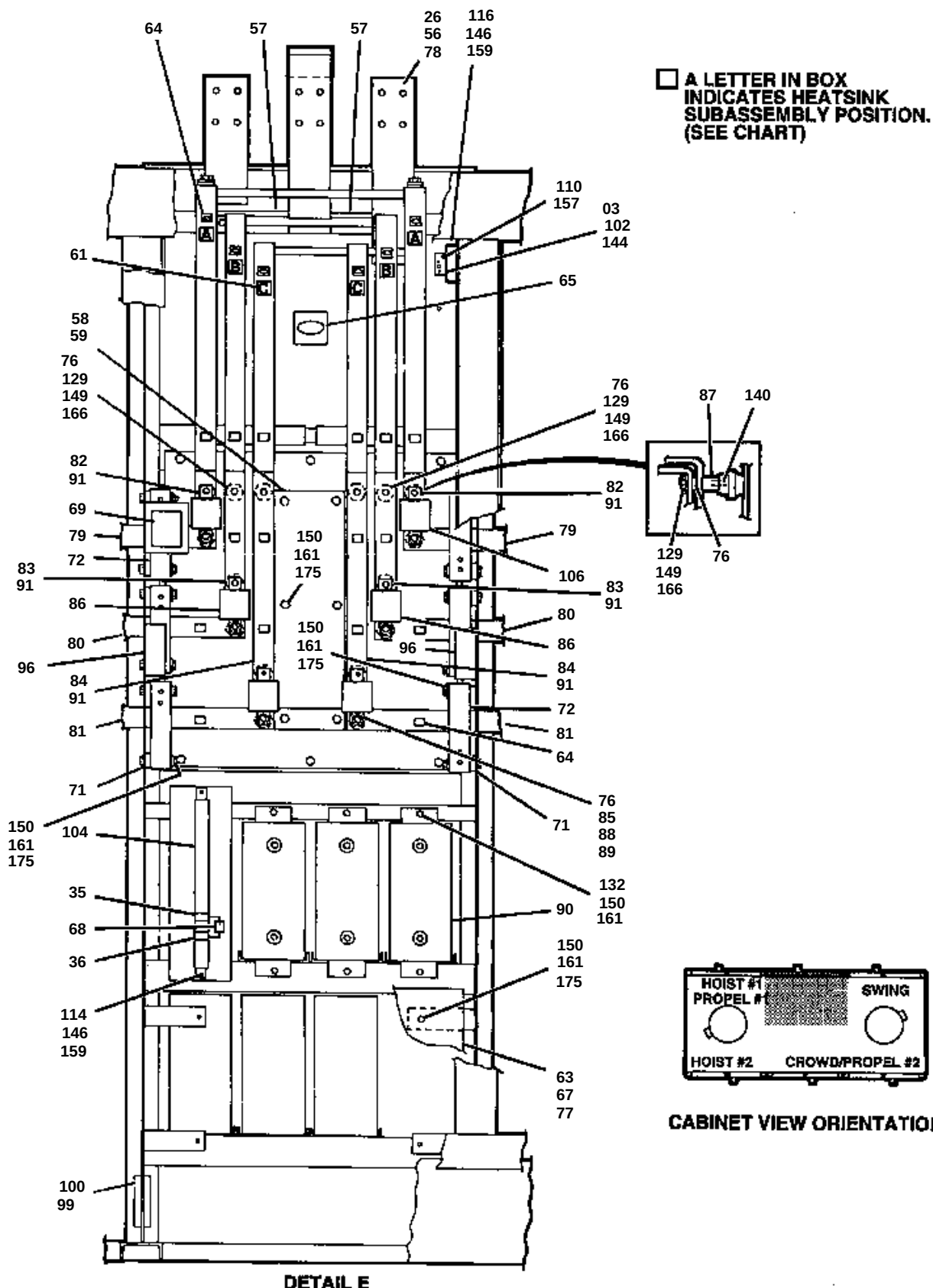


CABINET ASSEMBLY, CONVERTER





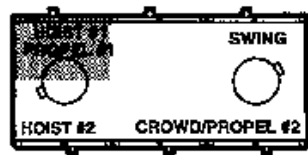
CABINET ASSEMBLY, CONVERTER



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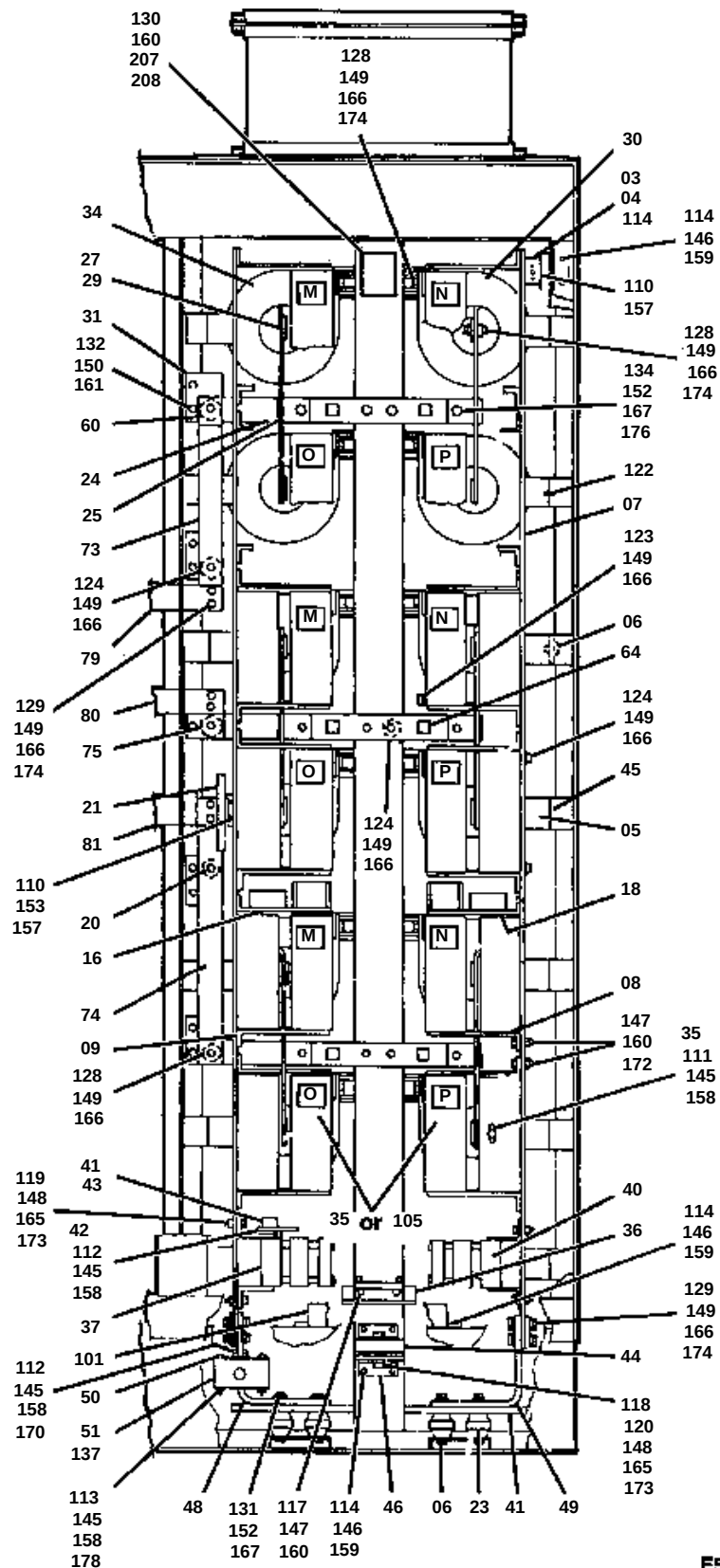


CABINET ASSEMBLY, CONVERTER



CABINET VIEW ORIENTATION

□ A LETTER IN BOX
INDICATES HEATSINK
SUBASSEMBLY POSITION.
(SEE CHART)

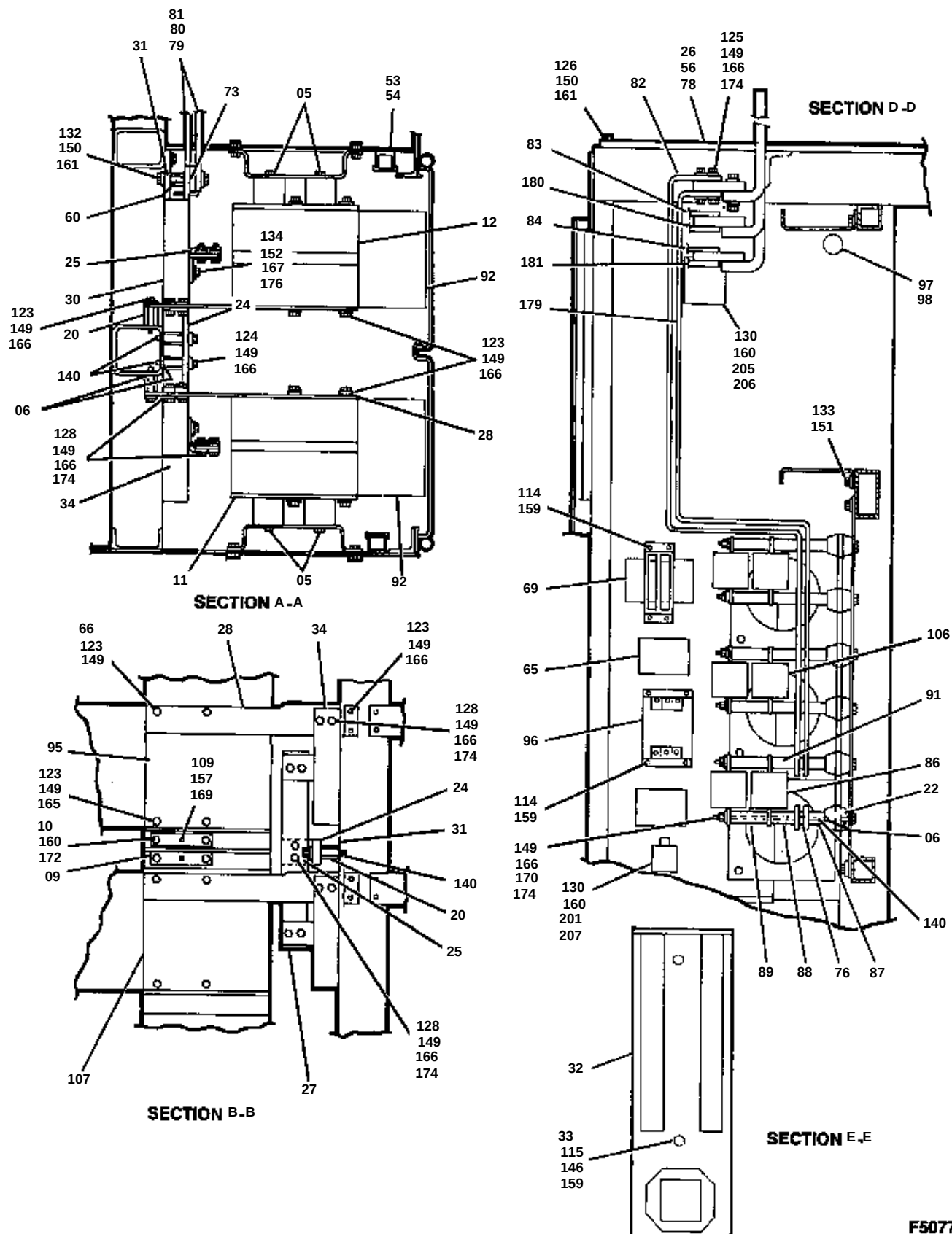


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HOIST #1/PROPEL #1



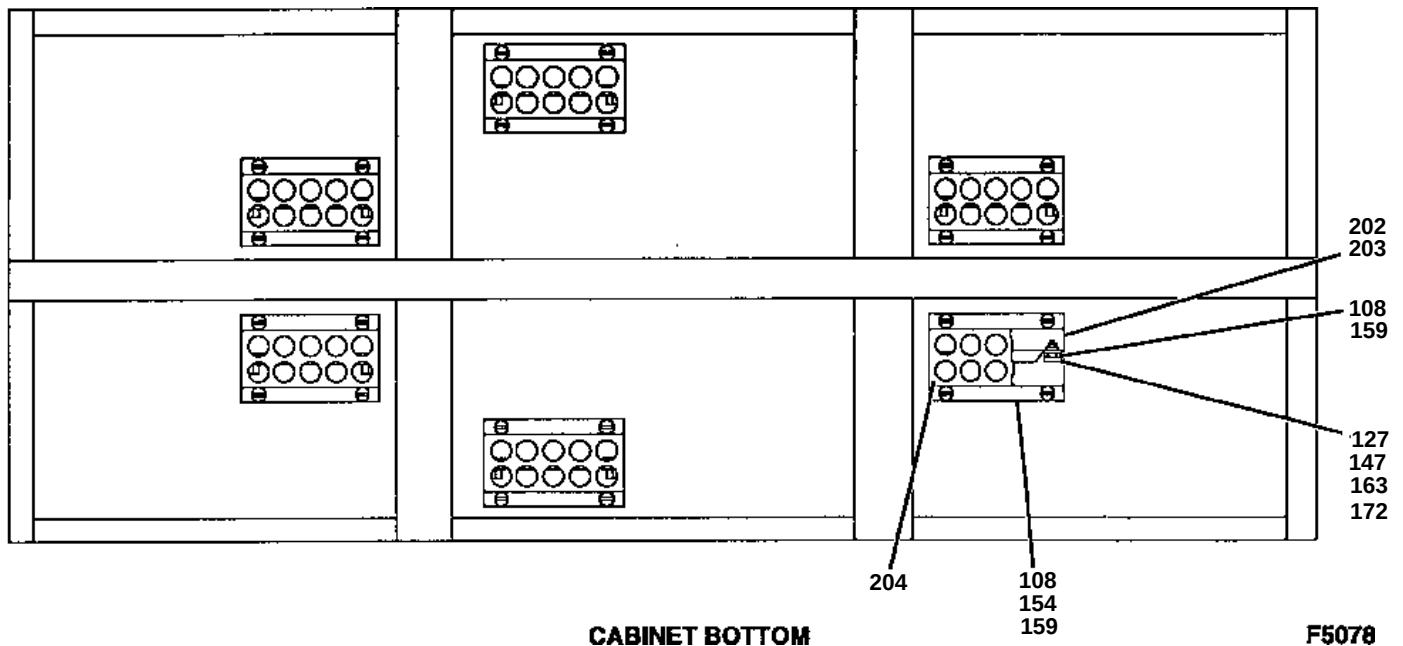
CABINET ASSEMBLY, CONVERTER



F5077



CABINET ASSEMBLY, CONVERTER





CABINET ASSEMBLY, CONVERTER

POSITION	REF	PART NO.	DESCRIPTION	QTY (Each Location)
A	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
B	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
C	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
D	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
E	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
F	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
G	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
H	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
I	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
J	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
K	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
L	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
M	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
N	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
O	12	979E328F4	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1
P	11	979E328F3	HEATSINK SUB-ASSEMBLY	1
	95	27F175D2	BAFFLE, Heatsink Side	1



CABINET ASSEMBLY, CONVERTER

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6068F29	CABINET ASSEMBLY, CONVERTER		
01	14A3458D1F1	· CABINET	1	
02		NOT USED		
03	79Z1803D3	· DOOR, Interlock	6	
04	16H5467	· BRACKET, Mounting (Door Interlock)	2	
05	79Z2361D1	· STANDOFF	112	
06	21Z729D3	· ADHESIVE	1	
07	79A1914	· BUS BAR	8	
08	16F7109D2	· SUPPORT, Heatsink	24	
09	16F7109D3	· SUPPORT, Heatsink	24	
10	16H5011	· BRACKET	48	
11	979E328F3	· HEATSINK, Sub-Assembly (See Chart)	24	14-9
12	979E328F4	· HEATSINK- Sub-Assembly (See Chart)	24	14-10
13		NOT USED		
14		NOT USED		
15		NOT USED		
16	979E326F5	· ARMATURE, SCR Dv Dt Sub-Assembly	24	14-7
17		NOT USED		
18	979E327F5	· ARMATURE, SCR Dv Dt Sub-Assembly	24	14-8
19		NOT USED		
20	79Z2752D7	· INSULATOR, Hex 1-1/2 in	128	
21	79H2247	· INSULATOR	4	
22	79Z2705D7	· INSULATOR, 2 in	32	
23	79Z2705D8	· INSULATOR, 2 in	16	
24	79F4703	· BUS BAR	12	
25	79H2246	· BUS BAR	24	
26	979A1637F1	· BUS BAR, Sub-Assembly	2	14-16
27	79F4702	· BUS BAR	48	
28	79E5958	· BUS BAR	384	
29		NOT USED		
30	75R6	· REACTOR, Right Hand	24	
31	16F8581	· SUPPORT, Bus Bar	20	
32	979F781F1	· RELAY, Sub-Assembly	4	14-12
33	18Z1940D3	· SPACER	8	
34	75R7	· REACTOR, Left Hand	24	
35	989H10F2	· THERMOSTAT, Sub-Assembly	4	
36	979F763F2	· DIVERter, DV DT Sub-Assembly	6	14-11



CABINET ASSEMBLY, CONVERTER

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	979E308F1	· DIVERTER, Heatsink Sub-Assembly	2	14-3
38	979E308F2	· DIVERTER, Heatsink Sub-Assembly	2	14-4
39	979E308F5	· DIVERTER, Heatsink Sub-Assembly	2	14-5
40	979E308F6	· DIVERTER, Heatsink Sub-Assembly	2	14-6
41	79Z1893D6	· MOUNTING TRACK, 7-1/2 in	6	
42	18Z2006D20	· SPACER, 1 in	12	
43	100E6770F2	· PULSE, Transformer Ckt PC Assembly	6	
44	75F240	· CHOKE	6	
45	18F2551	· SPACER, Insulating Choke	2	
46	16F6713	· BRACKET, Choke	8	
47	79F4569	· BUS BAR	8	
48	79F4570	· BUS BAR	3	
49	79F4582	· BUS BAR	5	
50	16H5012	· BRACKET, Transformer Mounting	6	
51	89Z541D2	· TRANSDUCER, Current Sensor	3	
52	21Z808	· COMPOUND, Electrical Joint	1	
53	79Z566D7	· WIRE, Duct 1-1/2 x 2 x 72 in	8	
54	79Z566D7	· WIRE, Duct 1-1/2 x 2 x 20 in	8	
55		NOT USED		
56	49Q8	· BLOWER, Axial	2	14-2
57	80Q145D2	· GRID RESISTOR	4	
58		NOT USED		
59	79E5577F1	· PANEL, MOV Assembly	2	14-13
60	79Z2752D5	· INSULATOR, Hex 1 in	12	
61	32Z1741D5	· DECAL, Phase Identification	12	
62	79E5578F1	· PANEL, Diverter Control Assembly	1	14-14
63	79E5578F8	· PANEL, Diverter Control Assembly	1	14-15
64	32Z1581D8	· DECAL, Danger 575 Volt	68	
65	32Z1581D7	· DECAL, DANGER 575 VOLT	8	
66	32Q1313	· DECAL, Thyristor Replacement	4	
67		NOT USED		
68	80Z838D110	· RESISTOR	3	
69	75Z891	· TRANSFORMER	2	
70		NOT USED		
71	18H6535	· SPACER	18	
72	75Z962D14	· CURRENT TRANSFORMER	9	
73	79F4704D1	· BUS BAR	4	



CABINET ASSEMBLY, CONVERTER

REF	PART NO.	DESCRIPTION	QTY	PAGE
74	79F4704D2	• BUS BAR	4	
75	79H2208	• BUS BAR	4	
76	18T14324D2	• SPACER, 3/8 in	56	
77		NOT USED		
78		NOT USED		
79	79F4699D1	• BUS BAR	8	
80	79F4699D2	• BUS BAR	8	
81	79F4699D3	• BUS BAR	8	
82	79E5969	• BUS BAR	4	
83	79E5971	• BUS BAR	4	
84	79E5973	• BUS BAR	4	
85	79Z2724D8	• TERMINAL	24	
86		NOT USED		
87	18H9011D1	• SPACER, 1-3/8 in	32	
88	18T14324D3	• SPACER, 2 in	12	
89	18T11474	• SPACER, 3 in	24	
90	84Q10D1	• CAPACITOR	6	
91	18T14324D4	• SPACER, 2-1/2 in	12	
92	27R115	• BAFFLE, Molding	36	
93	27R116	• BAFFLE, Molding	8	
94	27R117	• BAFFLE, Molding	4	
95	27F175D2	• BAFFLE, Heatsink Side	48	
96	79F4406F1	• POWER MONITOR ASSEMBLY	4	
97	0906V001	• CONDUIT, Insulating Bushing (Female)	2	
98	0949V004	• CONDUIT, Insulating Bushing (Male)	2	
99	0906V010	• CONDUIT, Bushing (Female)	8	
100	0949V013	• CONDUIT, Bushing (Male)	8	
101	79H2159D30	• TERMINAL, Block	4	
102	16H5396	• BRACKET, Door Interlock	4	
103	14F4711	• SCREEN, Fan	2	
104	79H2159D45	• TERMINAL, Block	2	
105		NOT USED		
106	79Z3238D3	• FUSE, 800 Volt	24	
107	20Z2473D12	• THUMBSCREW, Nylon #8-32 x 1/2 in	48	
108	0862V094	• SCREW, Pan Hd Mach #10-24 UNC x 3/8 in	36	
109	0844V033	• SCREW, Fl Hd Mach #6-32UNC-2A x 1 in	96	
110	0862V061	• SCREW, Pan Hd Mach #6-32 UNF x 1/2 in	20	



CABINET ASSEMBLY, CONVERTER

REF	PART NO.	DESCRIPTION	QTY	PAGE
111	0862V077	• SCREW, Pan Hd Mach #8-32 UNF x 1/2 in	8	
112	0862V085	• SCREW, Pan Hd Mach #8-32 UNF x 1-1/2 in	18	
113	0860V069	• SCREW, Rd Hd Mach #8-32UNC x 3 in	12	
114	0862V099	• SCREW, Pan Hd Mach #10-24 UNC x 3/4 in	56	
115	0862V103	• SCREW, Pan Hd Mach #10-24 UNC x 1-1/4 in	8	
116	0862V104	• SCREW, Pan Hd Mach #10-24 UNC x 1-1/2 in	8	
117	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in	14	
118	18H9231	• SUPPORT, Choke	6	
119	9824V007	• SCREW, Hex Hd Cap 1/4-20UNC x 1-1/2 in	32	
120	9824V012	• SCREW, Hex Hd Cap 1/4-20UNC x 2-3/4 in	2	
121	9824V018	• SCREW, Hex Hd Cap 1/4-20UNC x 4-1/2 in	2	
122	0844V127	• SCREW, Fl Hd Mach 3/8-16UNC-2A x 3/4 in	112	
123	9824V037	• SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in	228	
124	9824V039	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	224	
125	9824V047	• SCREW, Hex Hd Cap 3/8-16UNC x 2-1/2 in	24	
126	0826V042	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	68	
127	20Q260D192	• SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	12	
128	9824V041	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/2 in	252	
129	9824V045	• SCREW, Hex Hd Cap 3/8-16UNC x 2 in	48	
130	20Q260D189	• SCREW, Hex Hd Cap 1/4-20UNC x 1/2 in	16	
131	9824V073	• SCREW, Hex Hd Cap 1/2-13UNC x 2 in	16	
132	0826V041	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	92	
133	0826V078	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	16	
134	9824V072	• SCREW, Hex Hd Cap 1/2-13UNC x 1-3/4 in	24	
135		NOT USED		
136		NOT USED		
137	79E5125D5	• CABLE ASSEMBLY	1	
138		NOT USED		
139	79E5125D3	• CABLE ASSEMBLY	2	
140	20H1159	• STUD, 3/8-16 x 1 in	152	
141	79Z878D2	• CONNECTOR, Sealtite - 3/4 Straight	2	
142	304A13180	• CONDUIT	AR	
143	79Z880D2	• CONNECTOR, Sealtite - 3/4 x 90-	2	
144	79F4213	• INTERLOCK, Insulator Door	6	
145	3631V003	• WASHER, Plain #8	36	
146	3631V004	• WASHER, Plain #10	54	
147	3631V005	• WASHER, Plain 1/4 in	220	



CABINET ASSEMBLY, CONVERTER

REF	PART NO.	DESCRIPTION	QTY	PAGE
148	9629V004	• WASHER, Plain 1/4 in	72	
149	9629V008	• WASHER, Plain 3/8 in	AR	
150	3631V007	• WASHER, Plain 3/8 in	172	
151	3631V009	• WASHER, Plain 1/2 in	16	
152	9628V012	• WASHER, Plain 1/2 in	64	
153	3631V002	• WASHER, Plain #6	8	
154	3632V001	• WASHER, Plain 3/16 in	24	
155		NOT USED		
156		NOT USED		
157	3616V003	• WASHER, Lock #6	68	
158	3616V004	• WASHER, Lock #8	38	
159	3616V005	• WASHER, Lock #10	106	
160	3616V007	• WASHER, Lock 1/4 in	224	
161	3616V009	• WASHER, Lock 3/8 in	206	
162	3616V011	• WASHER, Lock 1/2 in	16	
163	18H4144D7	• WASHER, External Lock 1/4 in	12	
164		NOT USED		
165	17Z286D3	• WASHER, Disc Spring 1/4 in	132	
166	17Z286D9	• WASHER, Disc Spring 3/8 in	AR	
167	17Z286D15	• WASHER, Disc Spring 1/2 in	128	
168		NOT USED		
169	2136V003	• NUT, Hex #2-32UNC PS 560	96	
170	2136V004	• NUT, Hex #2-32UNC PS 560	18	
171		NOT USED		
172	2145V001	• NUT, Hex 1/4-20UNC	192	
173	9147V001	• NUT, Hex 1/4-20UNC	36	
174	9147V003	• NUT, Hex 3/8-16UNC	304	
175	2145V003	• NUT, Hex 3/8-16UNC	116	
176	9147V005	• NUT, Hex 1/2-13UNC	24	
177		NOT USED		
178	20H3800D6	• ROD, Bolt 3/8-16UNC x 9 in	24	
179	79E5970	• BUS BAR	4	
180	79E5972	• BUS BAR	4	
181	79E5974	• BUS BAR	4	
182		NOT USED		
183		NOT USED		
184		NOT USED		



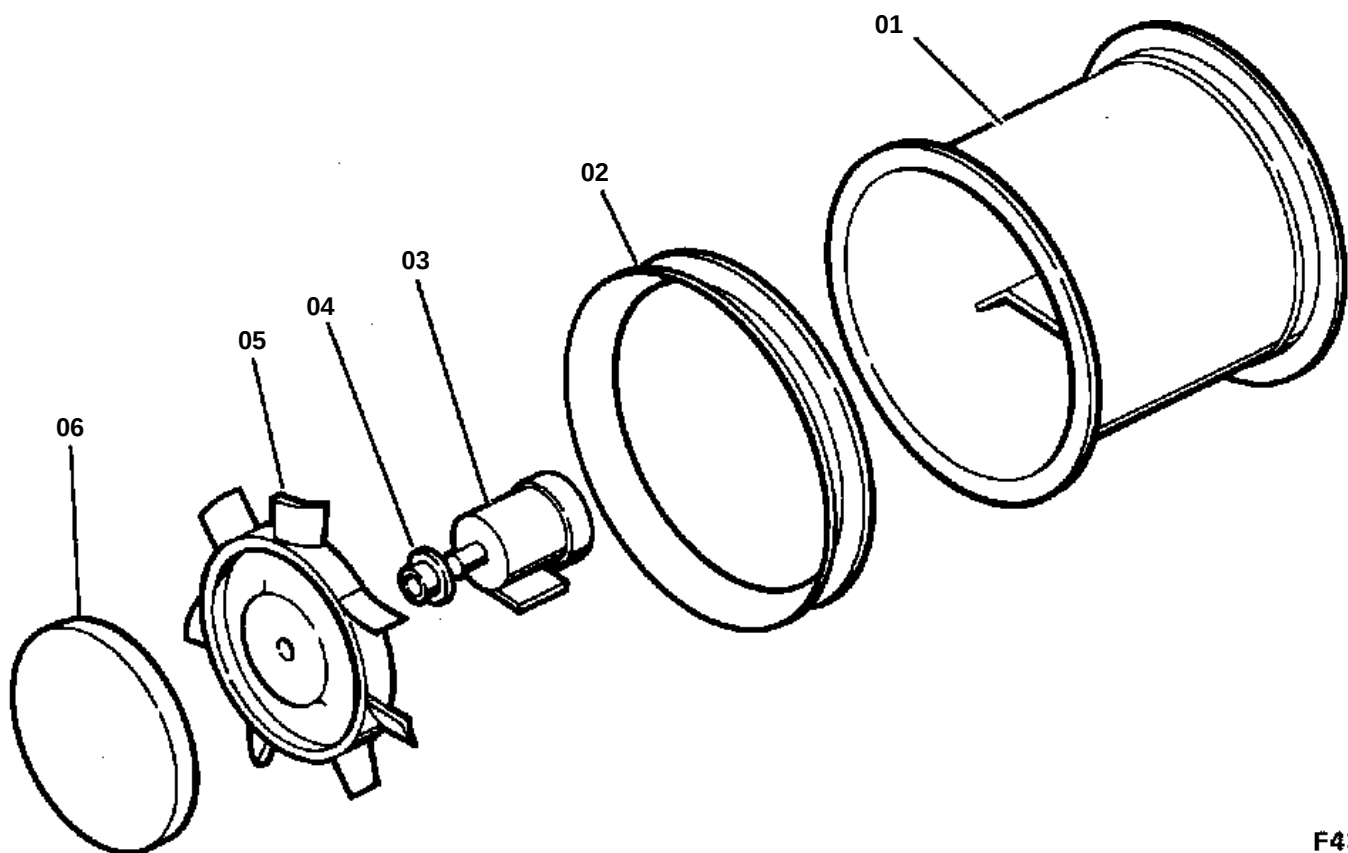
Machine Serial Number: **4184**

CABINET ASSEMBLY, CONVERTER

REF	PART NO.	DESCRIPTION	QTY	PAGE
185		NOT USED		
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187		NOT USED		
188		NOT USED		
189		NOT USED		
190		NOT USED		
191		NOT USED		
192		NOT USED		
193		NOT USED		
194		NOT USED		
195		NOT USED		
196		NOT USED		
197		NOT USED		
198		NOT USED		
199		NOT USED		
200		NOT USED		
201	89Z393D1	• THERMOSTAT	2	
202	80Z112D11	• HEATER, 150 Watts	6	
203	16H5242	• BRACKET	12	
204	14F3919	• HEATER, Guard	6	
205	87Z75D5	• BOX, Square Oultet	2	
206	87Z76D3	• COVER, Square Box	2	
207	87Z256D4	• BOX, Outlet	6	
208	87Z307D2	• COVER, Outlet Box	4	
209	3608V011	• NUT, Washer, Brass 3/8 in	344	
210	3608V012	• NUT, Washer, Brass 1/2 in	32	



BLOWER, AXIAL



F4353



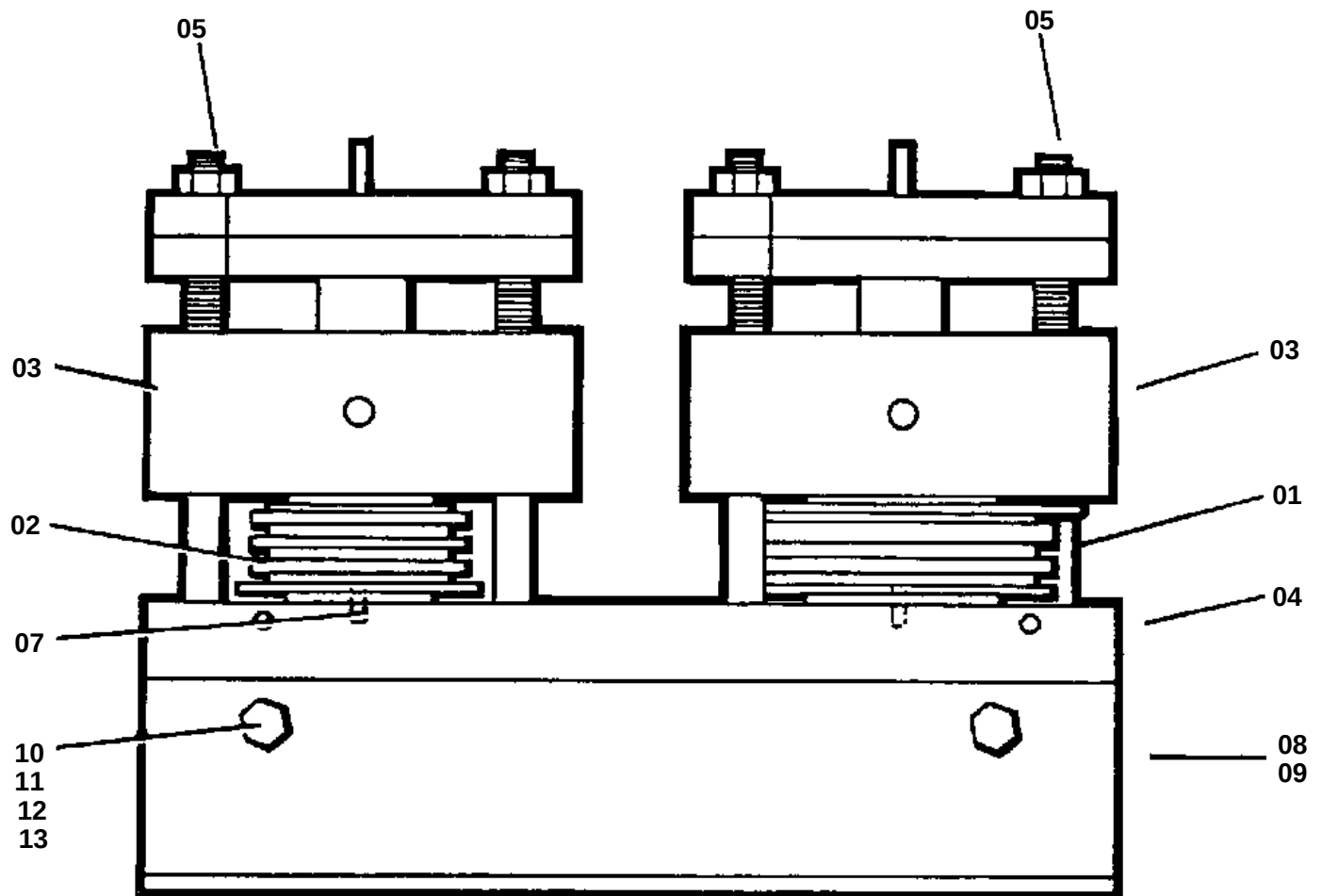
Machine
Serial Number: **4184**

BLOWER, AXIAL

[illegible]



HEAT SINK, DIVERTER CIRCUIT



F621



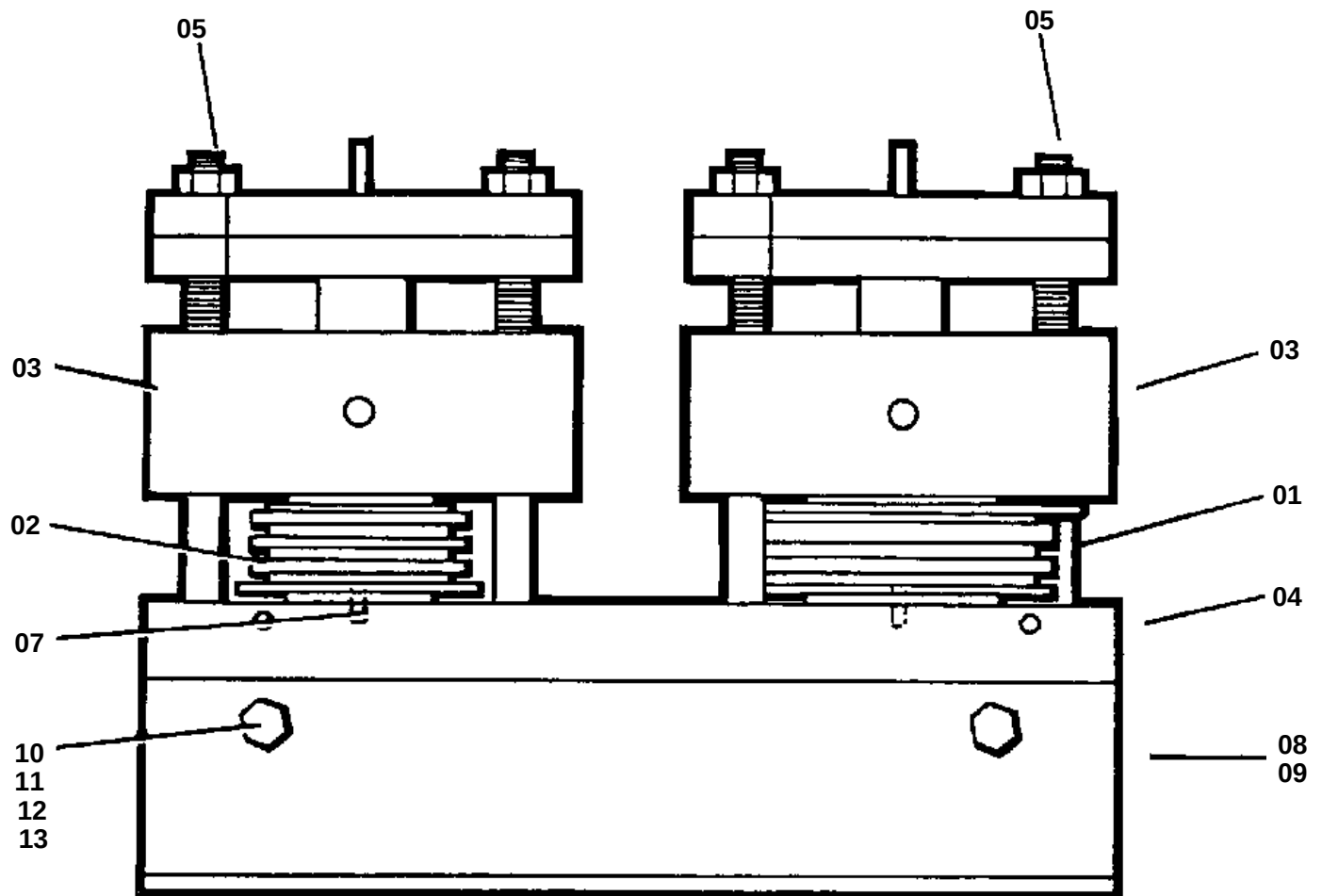
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Serial Number: **4184**

HEAT SINK, DIVERTER CIRCUIT

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HEAT SINK, DIVERTER CIRCUIT



F621



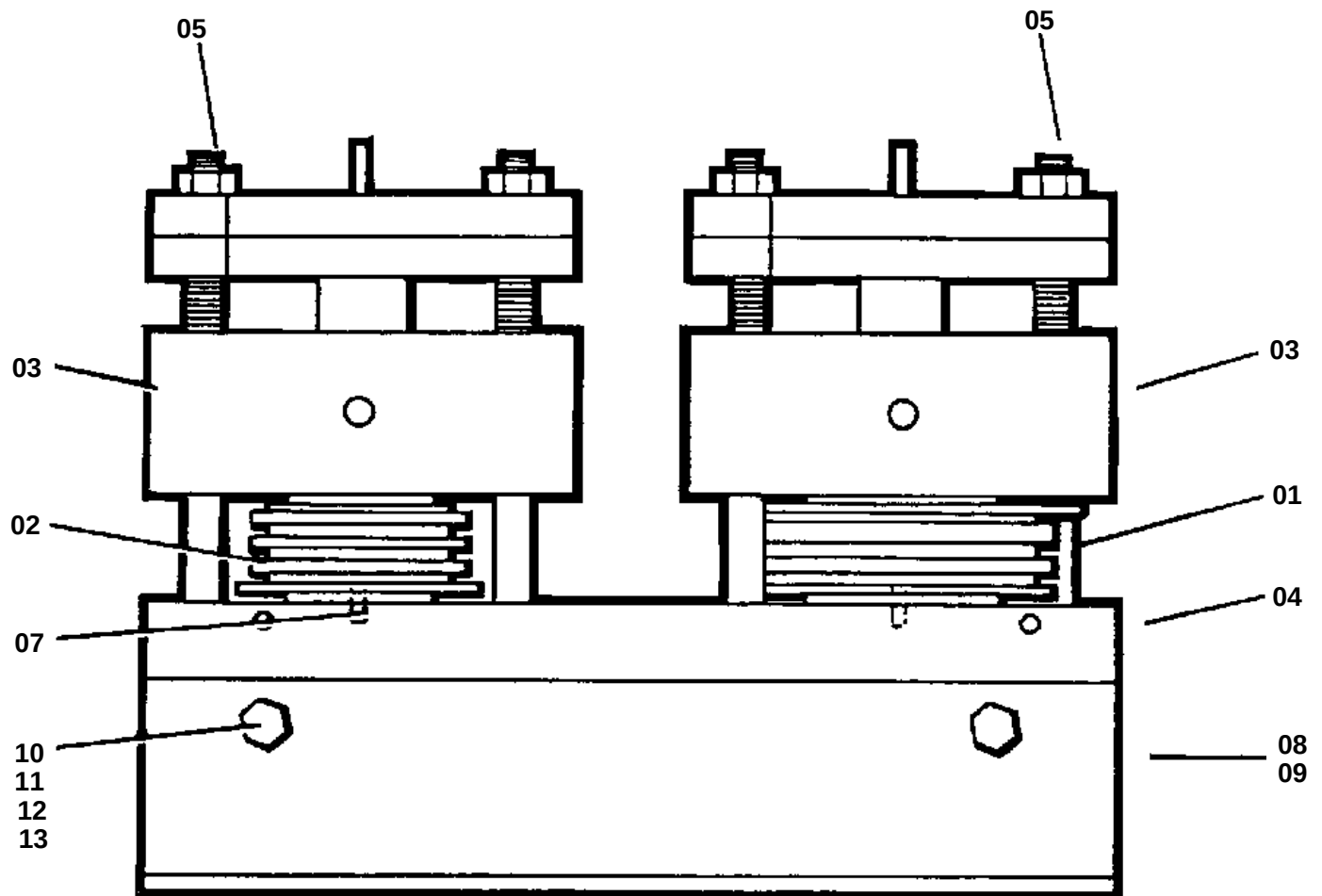
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Serial Number: **4184**

HEAT SINK, DIVERTER CIRCUIT

[illegible]



HEAT SINK, DIVERTER CIRCUIT



F621



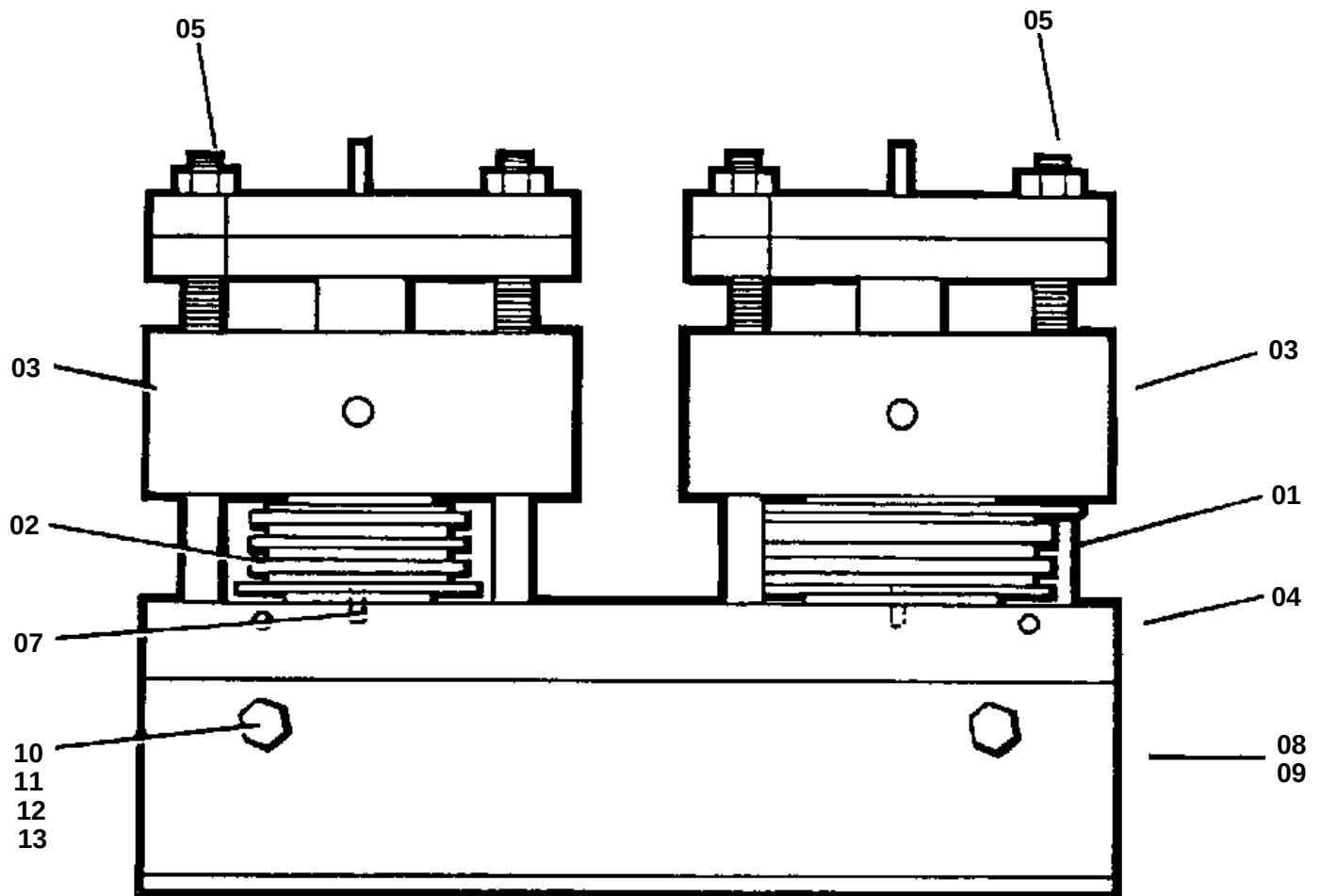
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Serial Number: **4184**

HEAT SINK, DIVERTER CIRCUIT

[illegible]



HEAT SINK, DIVERTER CIRCUIT



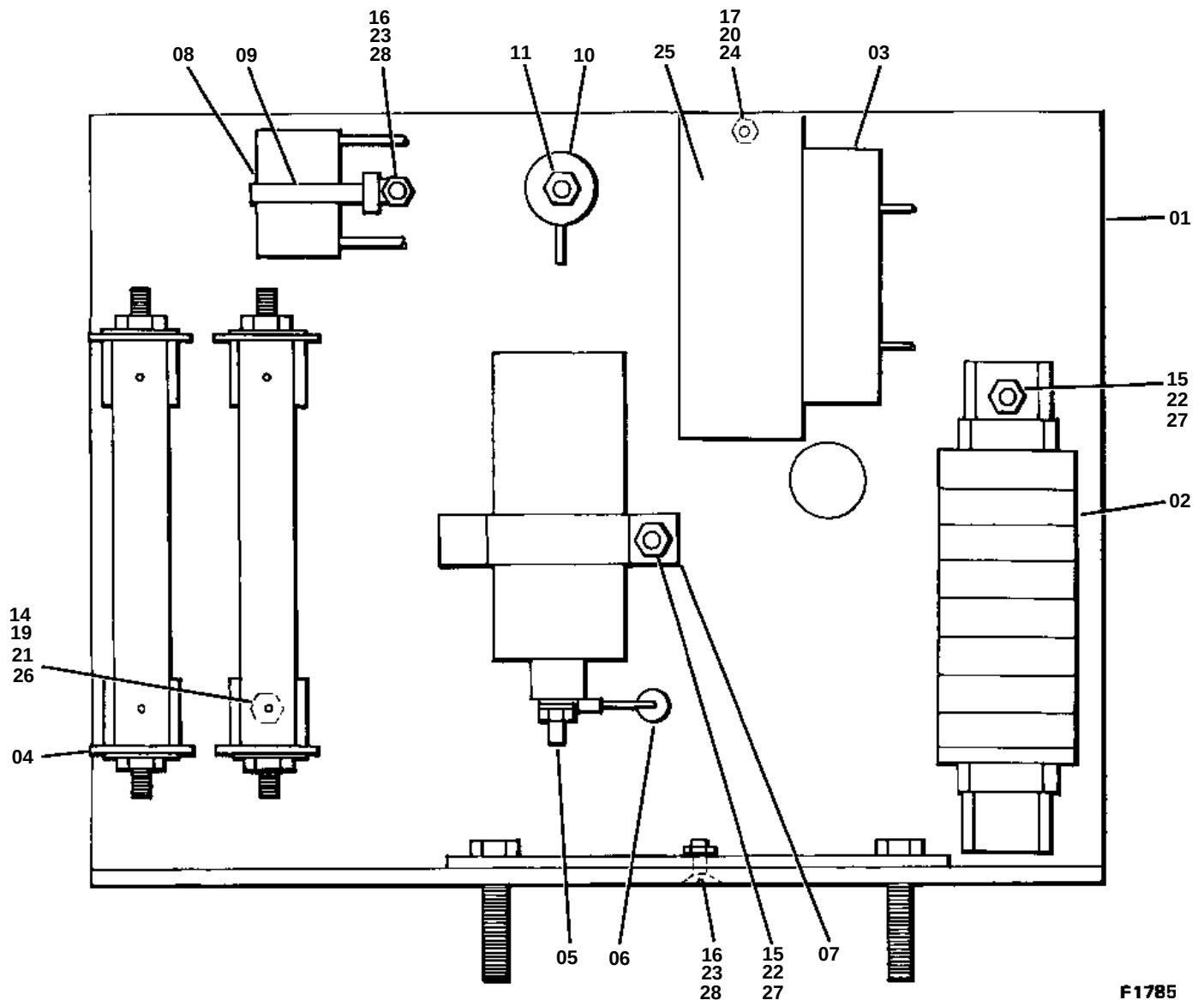
F621

HEAT SINK, DIVERTER CIRCUIT

[illegible]



DV/DT SUB ASSEMBLY - ARMATURE SCR



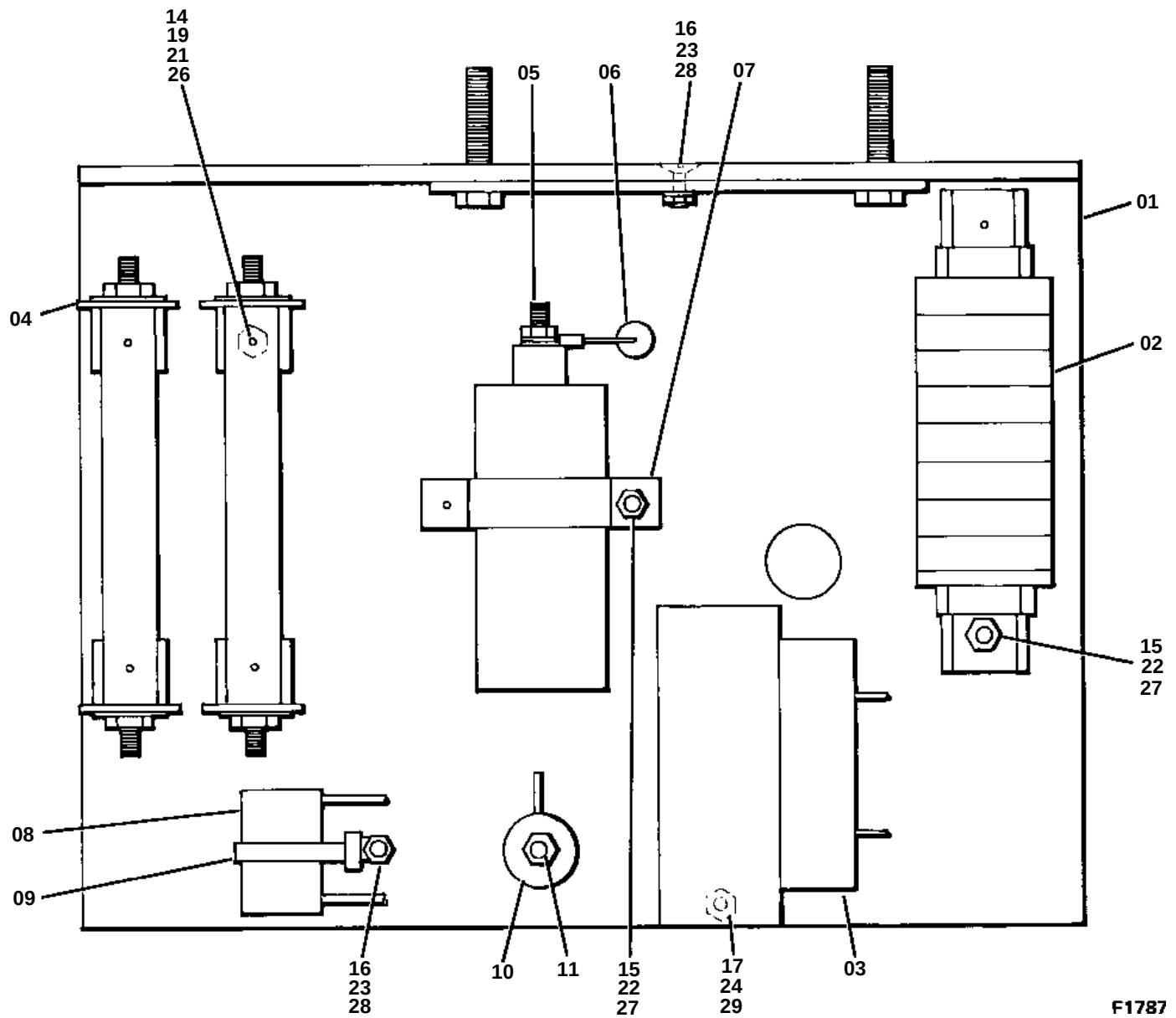
F1785

DV/DT SUB ASSEMBLY - ARMATURE SCR

REF	PART NO.	DESCRIPTION	QTY
	979E326F5	DV/DT SUB ASSEMBLY - ARMATURE SCR	
01	16E7169D1	· BRACKET, Mounting	1
02	79H2159D8	· BLOCK, Terminal	1
03	R19342D1	· TRANSFORMER, Pulse	1
04	80Z811D4	· RESISTOR, 40 Ohm, 50W	2
05	84Z170D4	· CAPACITOR, 1.0 MFD, 1500V	1
06	980H70-1	· RESISTOR	1
07	16H2697	· BRACKET, Capacitor Mounting	1
08	84Z200D7	· RC FILTER	1
09	32Z890D15	· WIRE TIE	1
10	80Z160D2	· RESISTOR, 50 Ohm, 25W	1
11	16Z450D4	· HARDWARE, Resistor Mounting	1
12	16H5011	· BRACKET, DV/DT Mounting	1
13	21Z549	· POTTING COMPOUND	AR
14	0844V062	· SCREW, Fl Hd Mach 10-24 x 1/2,	4
15	0844V043	· SCREW, Fl Hd Mach 8-32 x 1/2,	4
16	0844V026	· SCREW, Fl Hd Mach 6-32 x 3/8,	2
17	0844V006	· SCREW, Fl Hd Mach 4-40 x 1/2,	2
18	0844V029	· SCREW, Pan Hd Mach 4-40 x 1/2,	4
19	3631V004	· WASHER, #10 Flat,	4
20	2136V001	· NUT, Hex, 4-40,	6
21	3616V005	· LOCKWASHER, #10,	4
22	3616V004	· LOCKWASHER, #8,	4
23	3616V003	· LOCKWASHER, #6,	2
24	3616V002	· LOCKWASHER, #4,	6
25	16F7463	· BRACKET, Mounting-Pulse Transformer	1
26	2136V005	· NUT, Hex, 10-24,	4
27	2136V004	· NUT, Hex, 8-32,	4
28	2136V003	· NUT, Hex, 6-32,	2



DV/DT SUB-ASSEMBLY, ARMATURE SCR



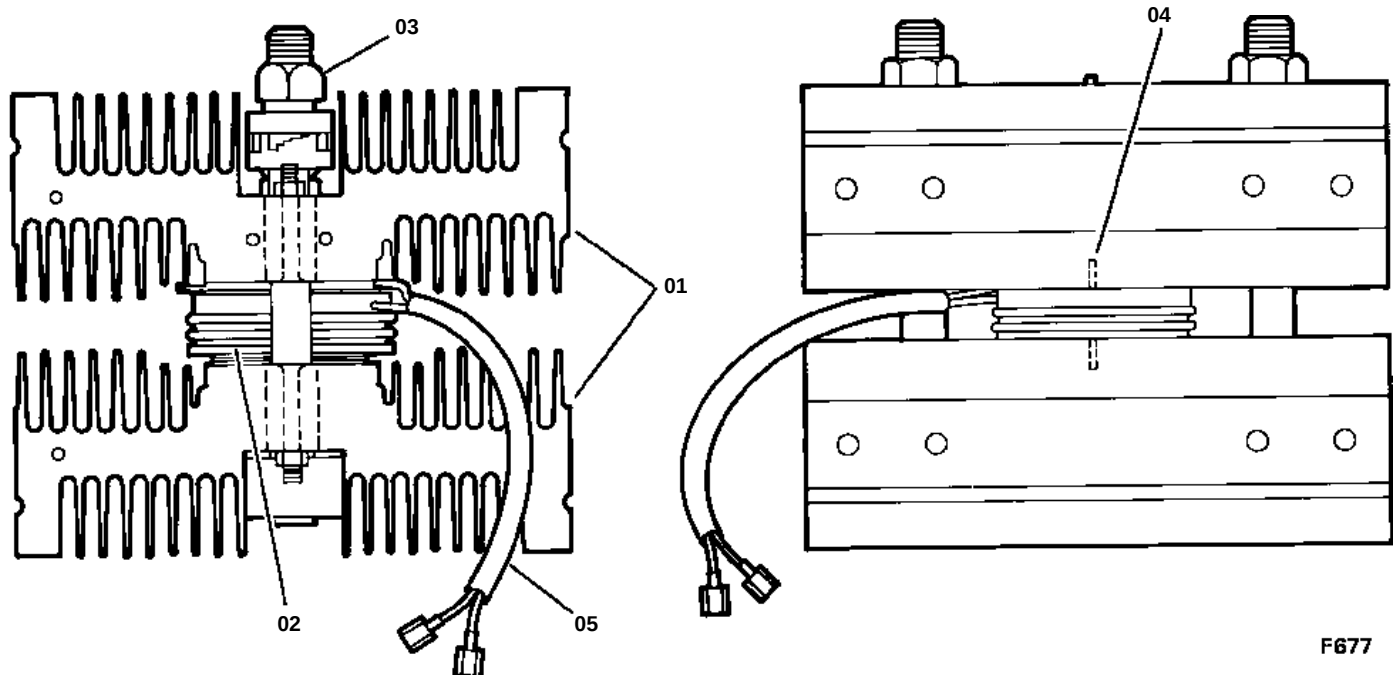
F1787

DV/DT SUB-ASSEMBLY, ARMATURE SCR

REF	PART NO.	DESCRIPTION	QTY
	979E327F5	DV/DT SUB-ASSEMBLY, ARMATURE SCR	
01	16E7169D1	• BRACKET, Mounting	1
02	79H2159D8	• BLOCK, Terminal	1
03	R19342D1	• TRANSFORMER, Pulse	1
04	80Z811D4	• RESISTOR, 40 Ohm, 50W	2
05	84Z170D4	• CAPACITOR, 1.0 µf, 1500V	1
06	980H70F1	• RESISTOR	1
07	16H2697	• BRACKET, Capacitor Mounting	1
08	84Z200D7	• RC FILTER	1
09	32Z890D15	• WIRE TIE	1
10	80Z160D2	• RESISTOR, 50 Ohm, 25W	1
11	16Z450D4	• HARDWARE, Resistor Mounting	1
12	16H5011	• BRACKET, DV/DT Mounting	1
13	21Z549	• POTTING COMPOUND	AR
14	0844V062	• SCREW, Fl Hd Mach 10-24 x 1/2,	4
15	0844V043	• SCREW, Fl Hd Mach 8-32 x 1/2,	4
16	0844V026	• SCREW, Fl Hd Mach 6-32 x 3/8,	2
17	0844V006	• SCREW, Fl Hd Mach 4-40 x 1/2,	2
18	0844V029	• SCREW, Pan Hd Mach 4-40 x 1/2,	4
19	3631V004	• WASHER, #10 Flat,	4
20	16F7463	• BRACKET, Mounting-Pulse Transformer	1
21	3616V005	• LOCKWASHER, #10,	4
22	3616V004	• LOCKWASHER, #8,	4
23	3616V003	• LOCKWASHER, #6,	2
24	3616V002	• LOCKWASHER, #4,	6
25	2136V001	• NUT, Hex, 4-40,	6
26	2136V005	• NUT, Hex, 10-24,	4
27	2136V004	• NUT, Hex, 8-32,	4
28	2136V003	• NUT, Hex, 6-32,	2



HEAT SINK---POLARITY AS SHOWN



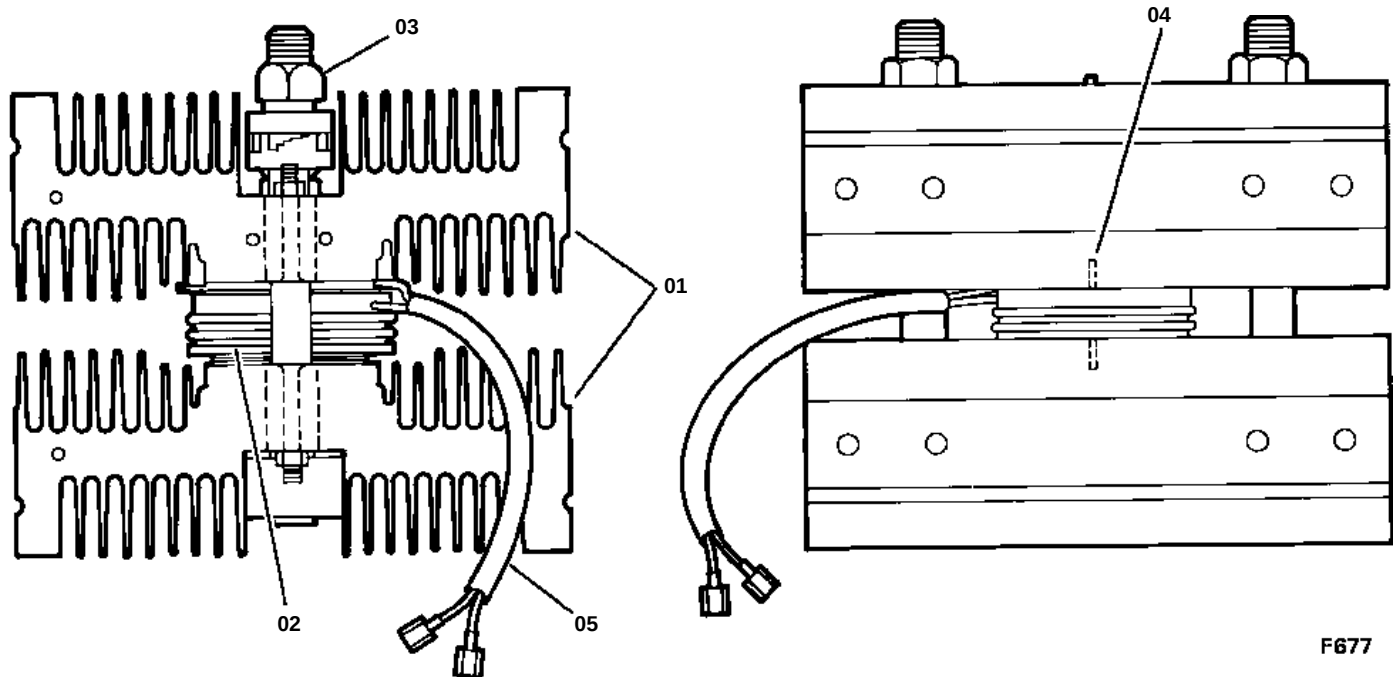
F677

HEAT SINK---POLARITY AS SHOWN

[illegible]



HEAT SINK---POLARITY OPPOSITE OF SHOWN



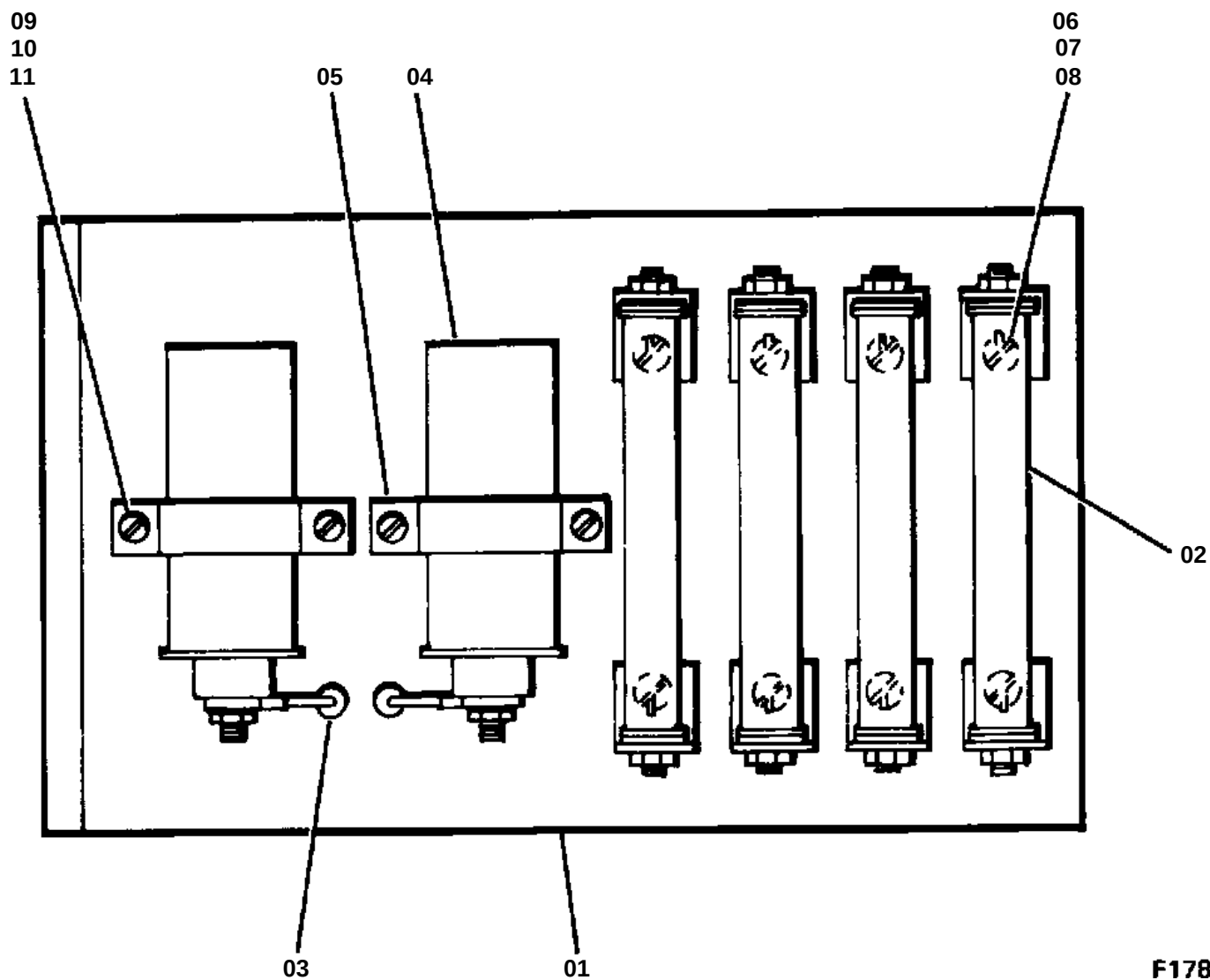
F677

HEAT SINK---POLARITY OPPOSITE OF SHOWN

REF	PART NO.	DESCRIPTION	QTY
	979E328F4	HEAT SINK---POLARITY OPPOSITE OF SHOWN	
01	79U2157D2	• HEAT SINK	2
02	75Z727D14	• THYRISTOR	1
03	979E343F1	• CLAMP, Thyristor	1
04	19Z8D45	• PIN, Spring	2
05	18Z3482D1	• TUBE, Thyristor Insulation	1



DV/DT SUBASSEMBLY, DIVERTER



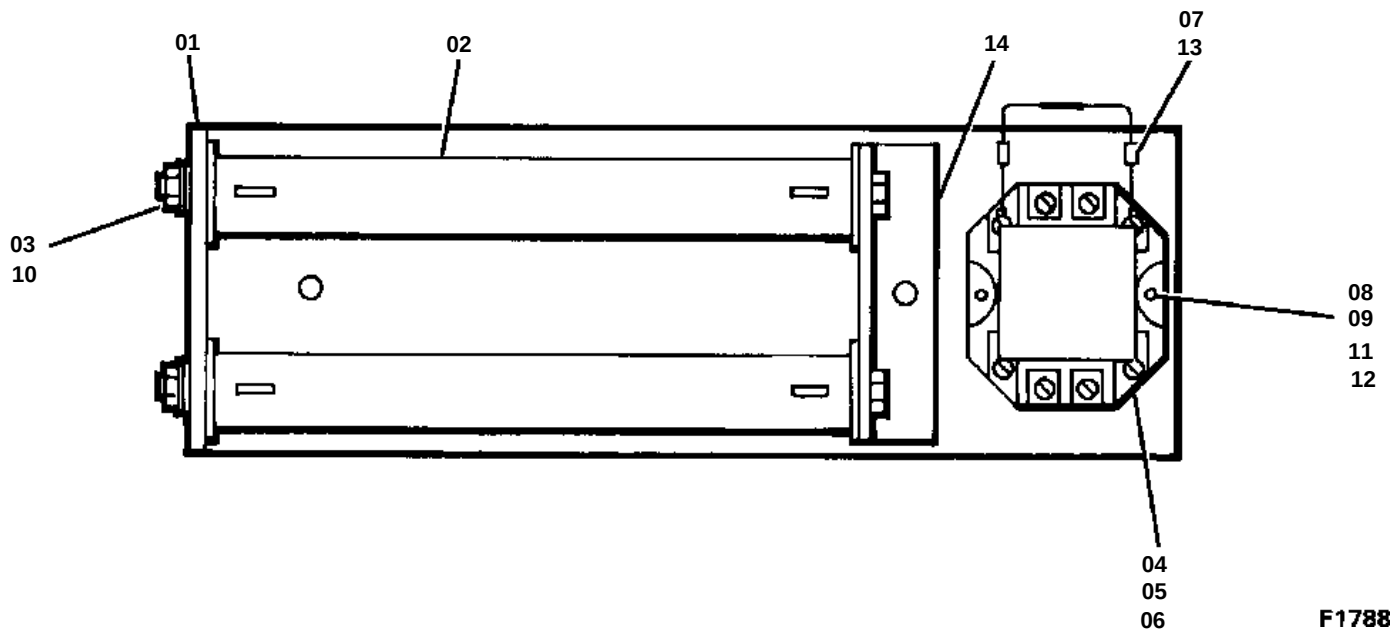
F1786

DV/DT SUBASSEMBLY, DIVERTER

[illegible]



RELAY SUBASSEMBLY





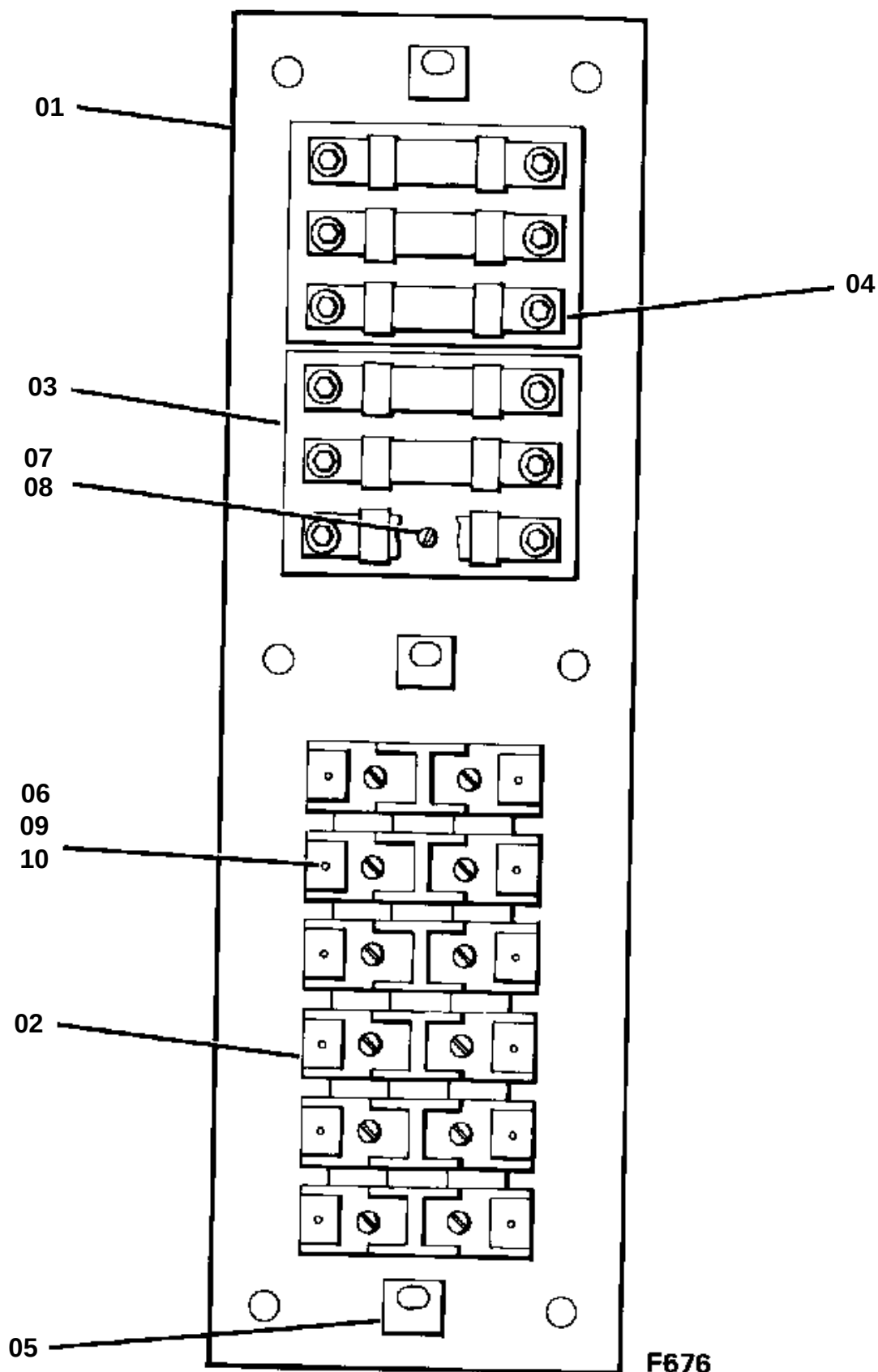
Machine Serial Number: **4184**

RELAY SUBASSEMBLY

[illegible]



PANEL, METAL OXIDE VARISTOR AND FUSE

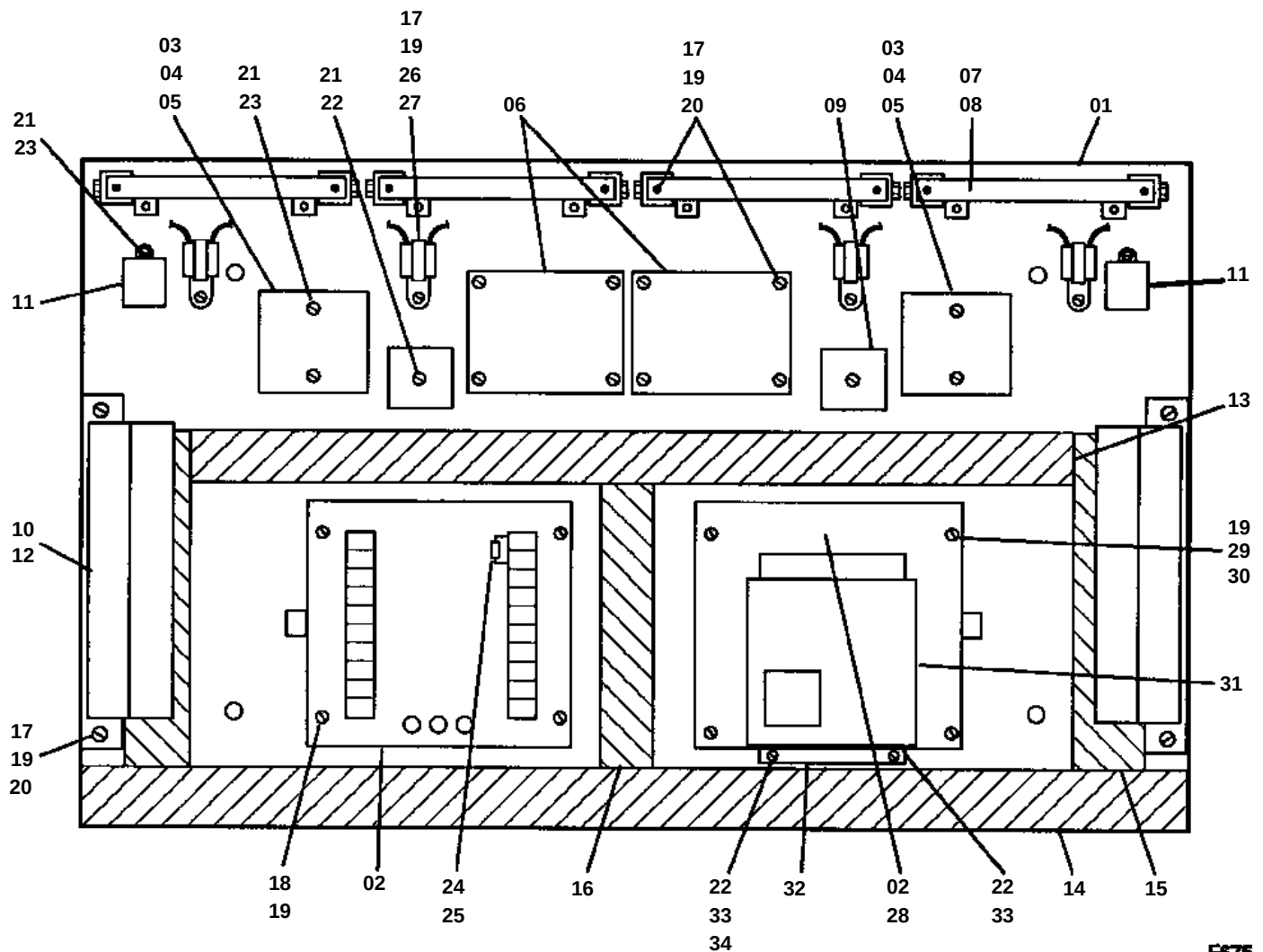


PANEL, METAL OXIDE VARISTOR AND FUSE

REF	PART NO.	DESCRIPTION	QTY
	79E5577F1	PANEL, METAL OXIDE VARISTOR AND FUSE	
01	79E5577	· PANEL	1
02	80Q176D1	· VARISTOR, Metal Oxide	6
03	79Z4103	· HOLDER, Fuse	2
04	79Z4104D4	· FUSE, 50A	6
05	32Z1581D8	· DECAL, "DANGER 575V"	3
06	0862V096	· SCREW, Pan Hd. Mach., #10-24 X 1/2", MPC	12
07	0844V065	· SCREW, Pan Hd. Mach., #10-24 X 3/4", MPC	4
08	18H4148D5	· WASHER, Lock #10 c'sunk	4
09	3616V005	· LOCKWASHER, #10, MPC	12
10	3631V004	· WASHER, Flat #10	12



PANEL, DIVERTER CONTROL



F675

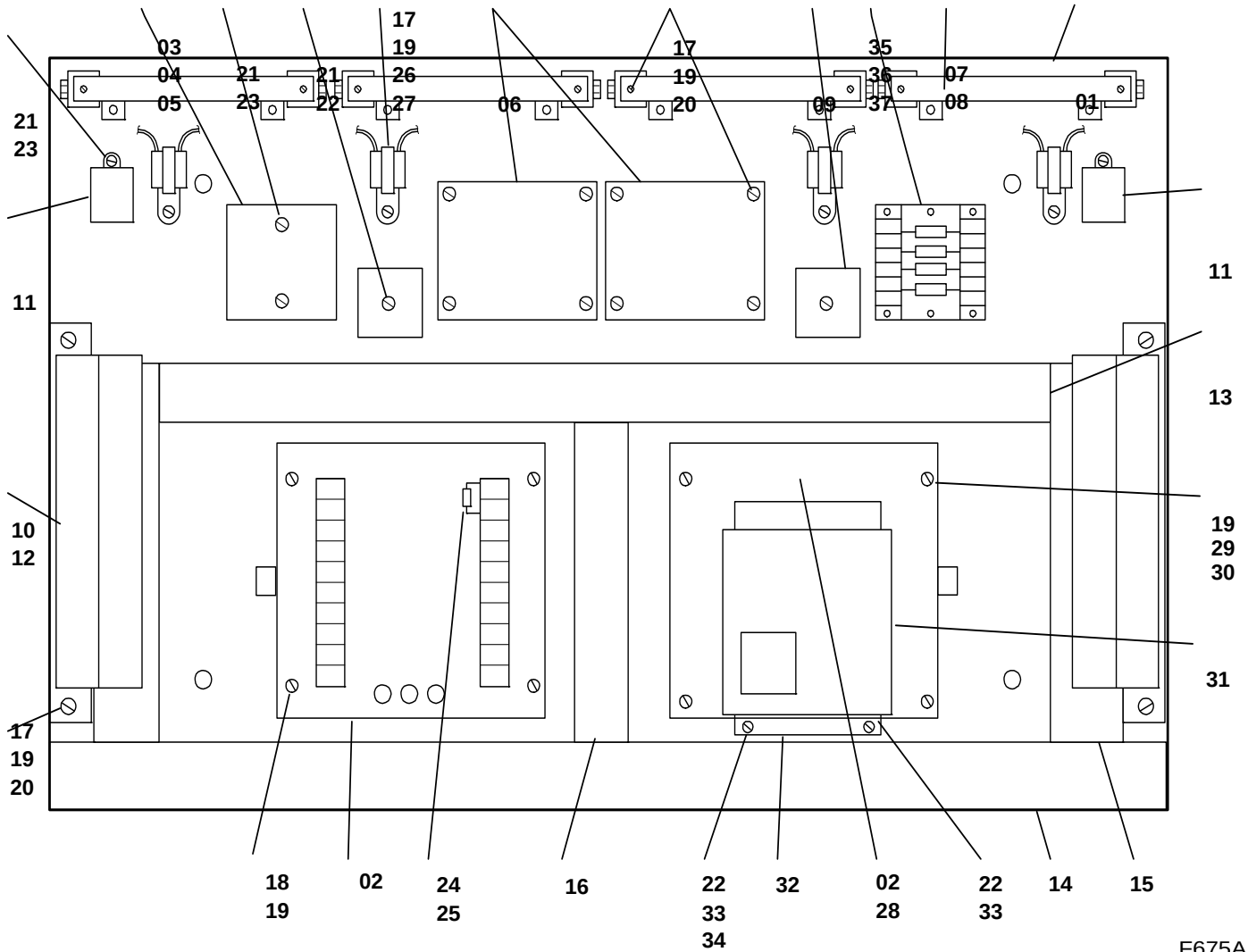


PANEL, DIVERTER CONTROL

REF	PART NO.	DESCRIPTION	QTY
	79E5578F1	PANEL, DIVERTER CONTROL	
01	79E5578	• PANEL	1
02	100E6722F2	• MODULE, Diverter Control	2
03	79Z3208D1	• RELAY, 600V	2
04	79Z3227D1	• CONTACT CARTRIDGE, 4 Pole	2
05	79Z3269D1	• CONTACT CARTRIDGE, Single	4
06	75Z969	• TRANSFORMER	2
07	80Z863D21	• RESISTOR, 5K Ohm, 100W	6
08	16Z315D2	• BRACKET, Resistor Mounting	3
09	75Z954D2	• RECTIFIER BRIDGE	2
10	79H2159D25	• BLOCK, Terminal	2
11	79Z2475D7	• RC FILTER & VARISTOR	2
12	79H2204	• INSULATOR, Terminal Block	2
13	79Z566D3	• DUCT, 1-1/2 X 3 X 23-1/2"	1
14	79Z566D3	• DUCT, 1-1/2 X 3 X 29-1/2"	1
15	79Z566D5	• DUCT, 2 X 3 X 9-1/4"	2
16	79Z566D3	• DUCT, 1-1/2 X 3 X 7-3/4"	1
17	0862V096	• SCREW, Pan Hd. Mach., #10-24 X 1/2", MPC	21
18	0862V094	• SCREW, Pan Hd. Mach., #10-24 X 3/8", MPC	8
19	3616V005	• LOCKWASHER, #10, MPC	29
20	3631V004	• WASHER, Plain, #10, MPC	18
21	0862V077	• SCREW, Pan Hd. Mach., #8-32 X 1/2", MPC	8
22	3616V004	• LOCKWASHER, #8, MPC	2
23	18Z733D6	• LOCKWASHER, #8, Int. Tth.	6
24	84Z178D39	• CAPACITOR, 1100uF 50VDC	2
25	79F1376D30	• TERMINAL, Solderless	4
26	84Z200D7	• R-C FILTER, Network	6
27	32Z890D7	• WIRE, Tie	3
28		NOT USED	
29		NOT USED	
30		NOT USED	
31		NOT USED	
32		NOT USED	
33		NOT USED	
34		NOT USED	



PANEL, DIVERTER CONTROL



F675A



PANEL, DIVERTER CONTROL

REF	PART NO.	DESCRIPTION	QTY
	79E5578F8	PANEL, DIVERTER CONTROL	
01	79E5578	• SHEET	1
02	100E6722F2	• MODULE, Diverter Control	1
03		NOT USED	
04		NOT USED	
05		NOT USED	
06	75Z969	• TRANSFORMER	2
07	80Z863D21	• RESISTOR, 5K Ohm, 100W	6
08	16Z315D2	• BRACKET, Resistor Mounting	3
09	75Z954D2	• RECTIFIER Bridge	2
10	79H2159D25	• BLOCK, Terminal	2
11	79Z2475D7	• RC FILTER & VARISTOR	1
12	79H2204	• INSULATOR, Terminal Block	2
13	79Z566D3	• DUCT, 1-1/2 X 3 X 23-1/2	1
14	79Z566D3	• DUCT, 1-1/2 X 3 X 29-1/2	1
15	79Z566D5	• DUCT, 2 X 3 X 9-1/4	2
16	79Z566D3	• DUCT, 1-1/2 X 3 X 7-3/4	1
17	0862V096	• SCREW, Pan Hd. Mach., #10-24 X 1/2	21
18	0862V094	• SCREW, Pan Hd. Mach., #10-24 X 3/8	4
19	3616V005	• LOCKWASHER, #10,	25
20	3631V004	• WASHER, Plain, #10,	18
21	0862V077	• SCREW, Pan Hd. Mach., #8-32 X 1/2	5
22	3616V004	• LOCKWASHER, #8,	6
23	18Z733D6	• LOCKWASHER, #8, Internal Tooth	3
24	84Z178D39	• CAPACITOR, 1100mF 50VDC	1
25	79F1376D30	• TERMINAL, Solderless	2
26	84Z200D7	• R-C FILTER, Network	6
27	32Z890D7	• WIRE, Tie	3
28		NOT USED	
29		NOT USED	
30		NOT USED	
31	84Z299D6	• POWER SUPPLY, DC	1
32	16P7026	• BRACKET, Support	1
33	0862V075	• SCREW, Pan Hd. Mach., #8-32 x 3/8	4
34	2136V004	• NUT, Hex #8-32	2
35	979H152-1	• BLOCK, Terminal	1
36	80Z856D122	• RESISTOR	4



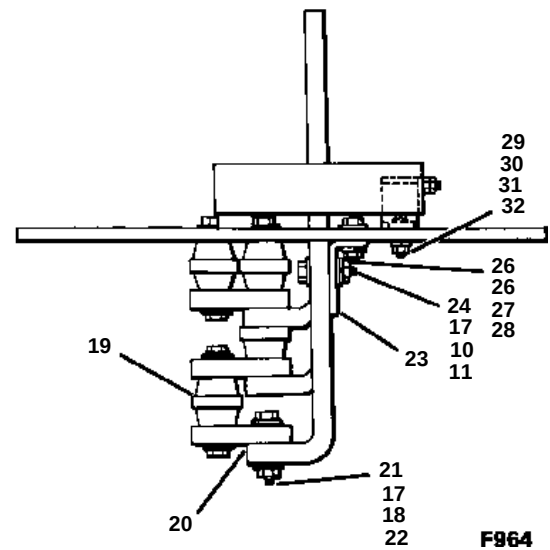
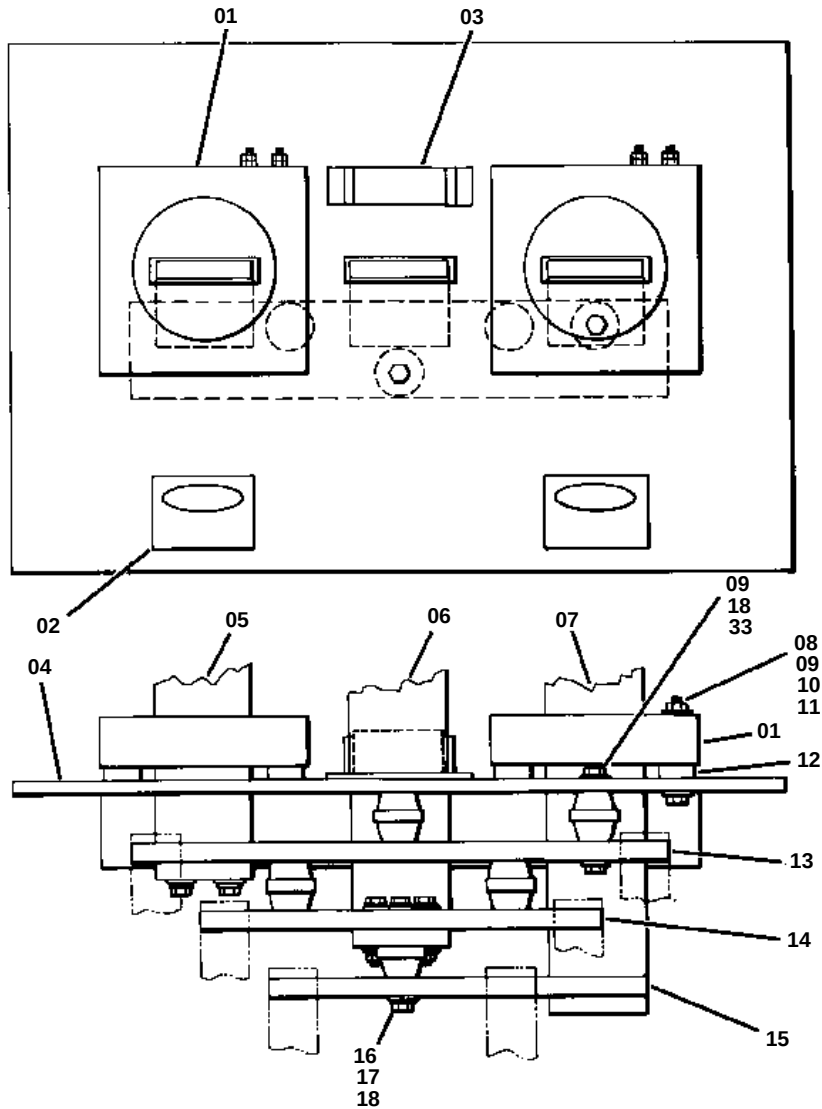
Machine
Serial Number: **4184**

PANEL, DIVERTER CONTROL

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BUS BAR SUBASSEMBLY



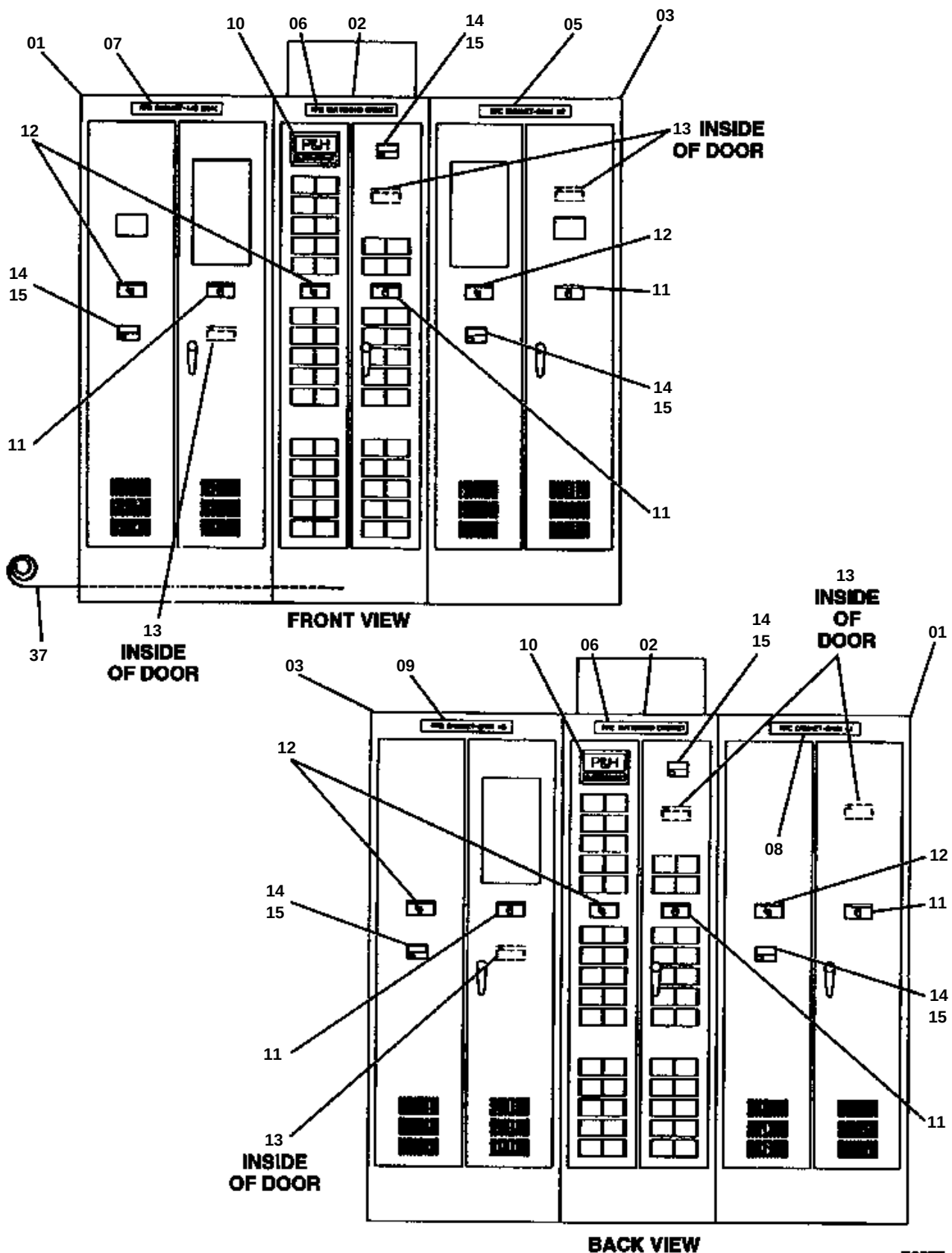
F964



BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979A1637F1	BUS BAR SUBASSEMBLY	
01	75Z962D13	• TRANSFORMER, Current	2
02	32Z1581D7	• DECAL, Danger, 575V	2
03	79H2159D10	• TERMINAL BLOCK ASSEMBLY, 10 POS	1
04	14E4877	• COVER PLATE, Mounting	1
05	79F5009D1	• BAR, Bus	1
06	79F5009D2	• BAR, Bus	1
07	79F5009D3	• BAR, Bus	1
08	20Q260D271	• SCREW, Hex Hd Cap 3/8-16UNC x 4 in	6
09	3632V004	• WASHER, Plain 3/8 in MPC	14
10	3616V009	• WASHER, Lock 3/8 in MPC	12
11	20Q270D24	• NUT, Hex 3/8-16UNC	12
12	18H6535	• SPACER	6
13	79F5007	• BAR, Bus	1
14	79F5006	• BAR, Bus	1
15	79F5008	• BAR, Bus	1
16	0624V041	• SCREW, Hex Hd Cap 3/8-16 x 1-1/2 in - Brass	8
17	3609V008	• WASHER, Plain 3/8 in - Brass	32
18	17Z286D9	• SPRING, Disc 3/8	44
19	79Z2705D7	• STANDOFF, 2.00 LG	5
20	21Z808	• ELECTRICAL JOINT COMPOUND	1
21	0624V047	• SCREW, Hex Hd Cap 3/8-16 x 2-1/2 in - Brass	6
22	2047V003	• NUT, Hex 3/8-16 in - Brass	6
23	16F7578	• SUPPORT, Bus Bar	1
24	20Q260D263	• SCREW, Hex Hd Cap 3/8-16UNC x 2 in	6
25	20Q260D197	• SCREW, Hex Hd Cap 1/4-20UNC x 1-1/2 in	6
26	3631V005	• WASHER, Plain 1/4 in MPC	12
27	3616V007	• WASHER, Lock 1/4 in MPC	6
28	20Q270D16	• NUT, Hex 1/4-20UNC	6
29	2136V005	• NUT, Hex #10-24UNC MPC	2
30	3616V005	• WASHER, Lock #10 MPC	2
31	3631V004	• WASHER, Plain #10 MPC	4
32	0862V101	• SCREW, Pan Hd Mach #10-24UNC x 1 in MPC	2
33	20Q260D260	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in	2

MODULE, RPC SWITCHING





MODULE, RPC SWITCHING

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R9555F7	MODULE, RPC SWITCHING		
01	100A13555F9	• CABINET, RPC 1/2 & Bank 1	1	14-18
02	100A12130F36	• CABINET, RPC Switching	1	14-20
03	100A13555F12	• CABINET, RPC Bank 2 & 3	1	14-19
04	21Z808	• COMPOUND, Electrical Joint	AR	
05	32Q590D47	• DECAL, RPC Cabinet-Bank 2	1	
06	32Q590D38	• DECAL, RPC Switching Cabinet	2	
07	32Q590D45	• DECAL, RPC Cabinet-1/2 Bank	1	
08	32Q590D46	• DECAL, RPC Cabinet-Bank #1	1	
09	32Q590D48	• DECAL, RPC Cabinet-Bank #3	1	
10	32U1181D1	• DECAL, P&H Electrotorque	2	
11	32Q1808D1	• SIGN, Caution "Do Not Open Doors"	6	
12	32Q1809D1	• SIGN, Warning "Hazardous Voltage"	6	
13	32Q1810D1	• SIGN, Danger "Hazardous Voltage"	6	
14	32Q1805D58	• LABEL, Identification Voltage 600	6	
15	32Q1780D3	• DECAL, Notice Voltage	6	
16		NOT USED		
17		NOT USED		
18		NOT USED		
19		NOT USED		
20		NOT USED		
21		NOT USED		
22	100N3138D2F2	• CABINET INSTALLATION, RPC Assembly(Not shown)	1	14-26
23		NOT USED		
24		NOT USED		
25	R18391F3	• INSTALLATION KIT, Remote I/D Assembly (Not shown)	1	14-62
26		NOT USED		
27		NOT USED		
28		NOT USED		
29		NOT USED		
30		NOT USED		
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32		NOT USED		
33		NOT USED		
34		NOT USED		
35		NOT USED		
36		NOT USED		



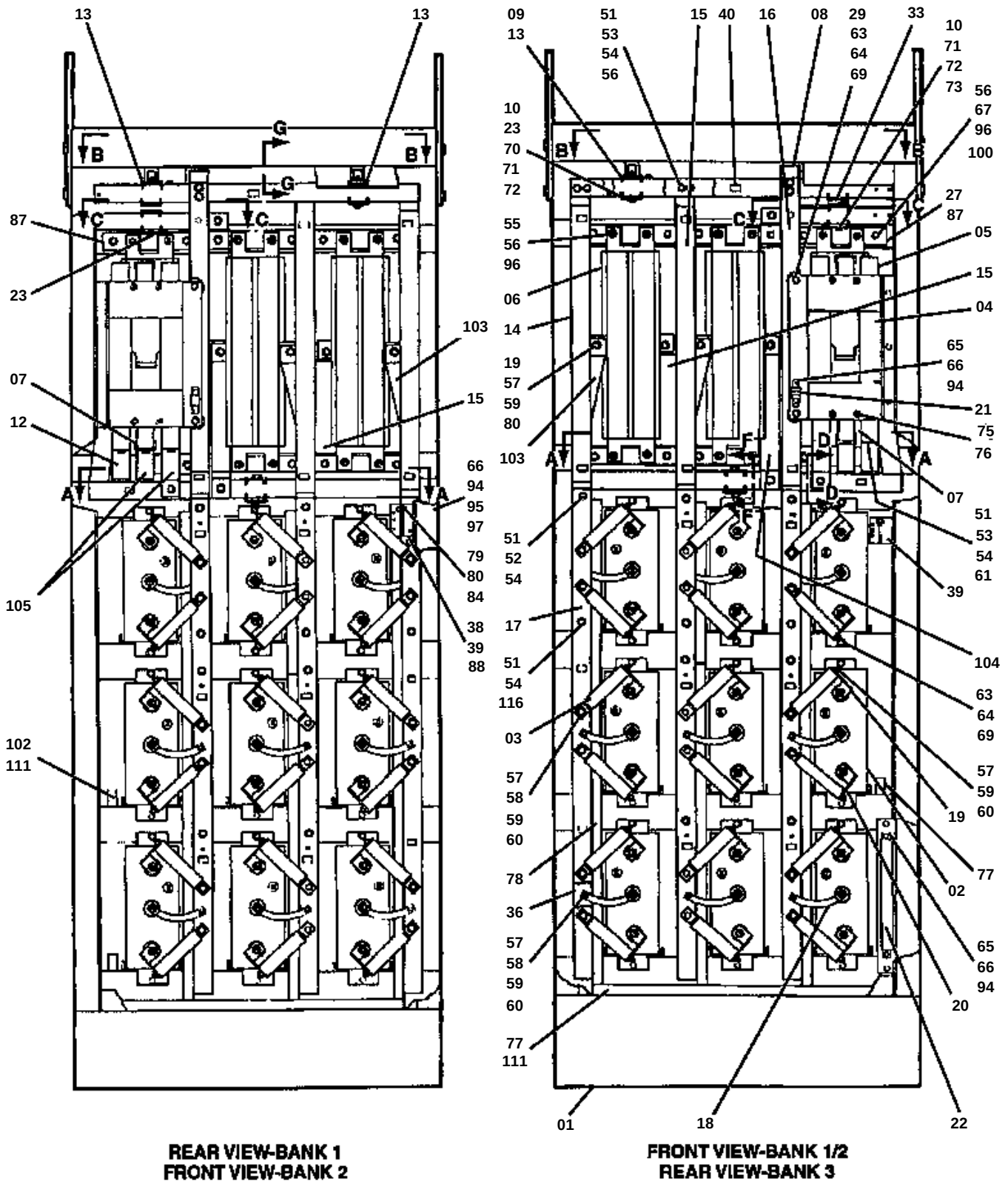
Machine
Serial Number: **4184**

MODULE, RPC SWITCHING

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	R30930F14	· CABLE INSTALLATION, RPC Cab Mod	1	



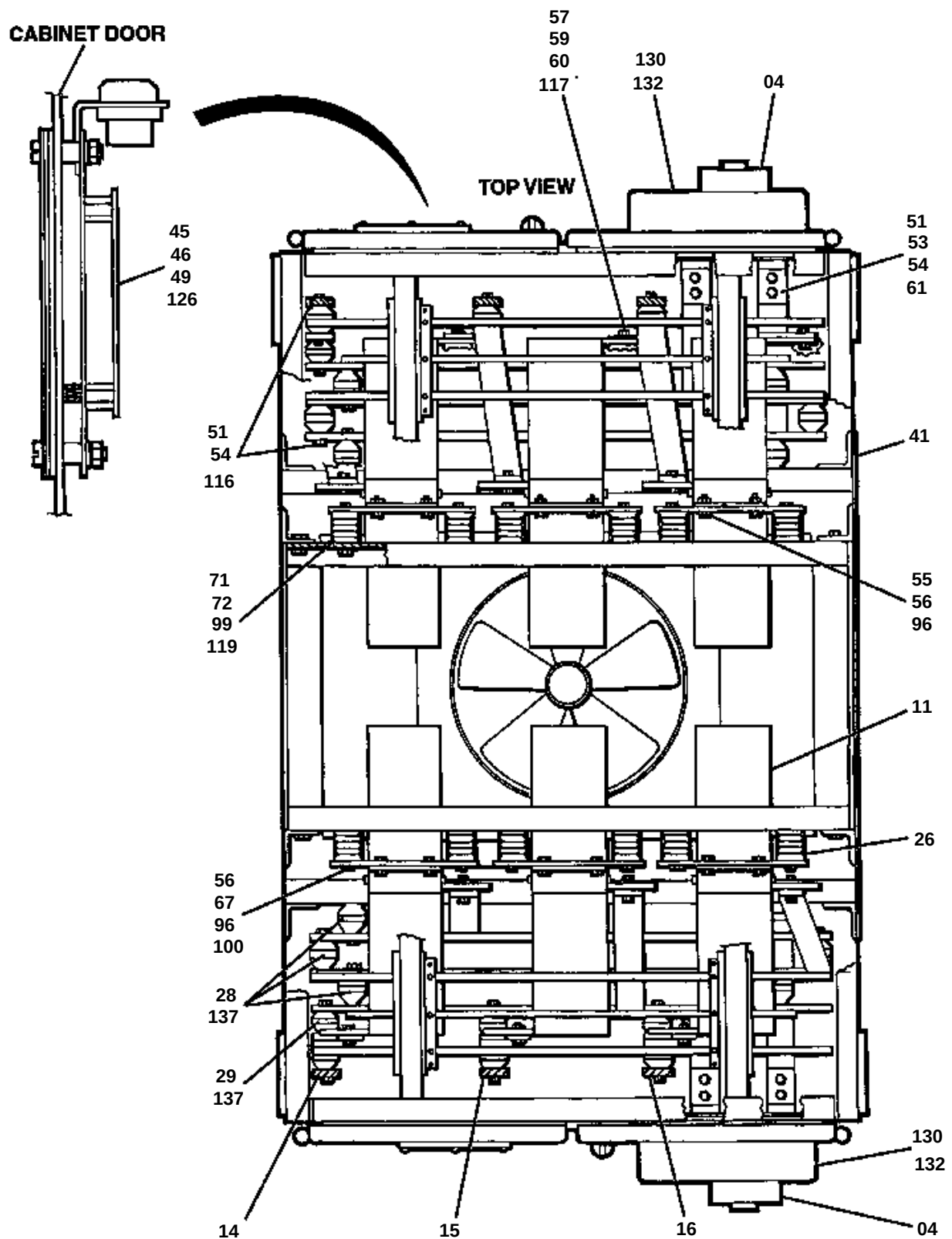
CABINET, BANKED RPC - BANKS 1/2 AND 1



F7173



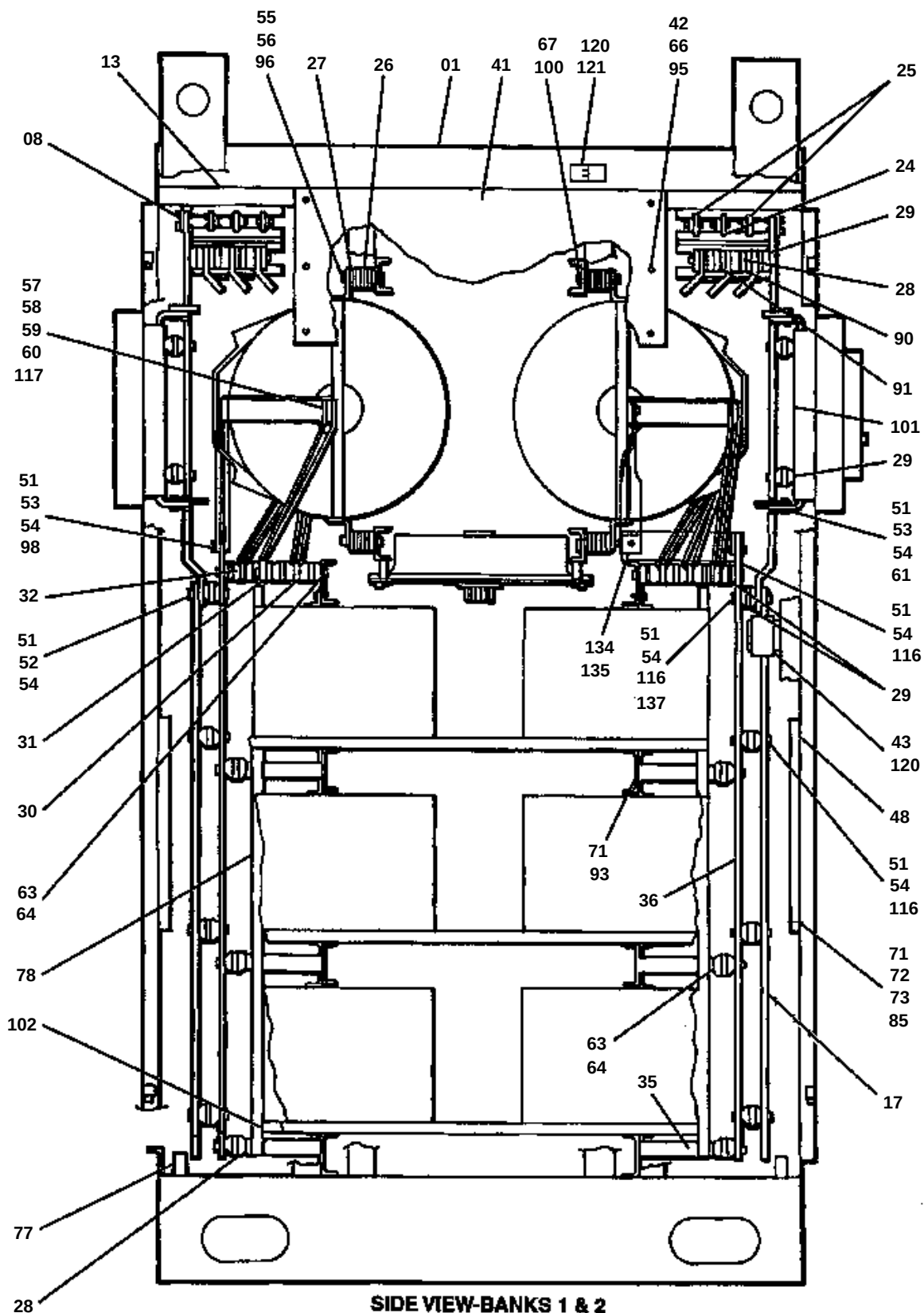
CABINET, BANKED RPC - BANKS 1/2 AND 1



F7174



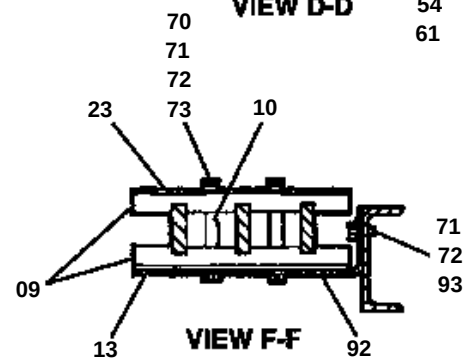
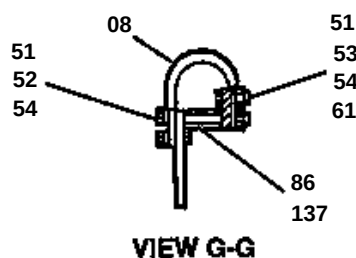
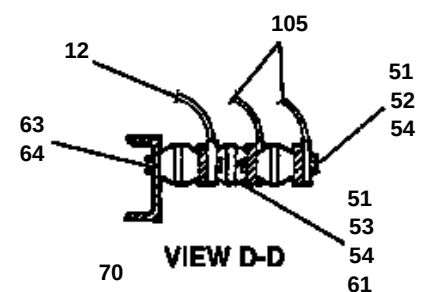
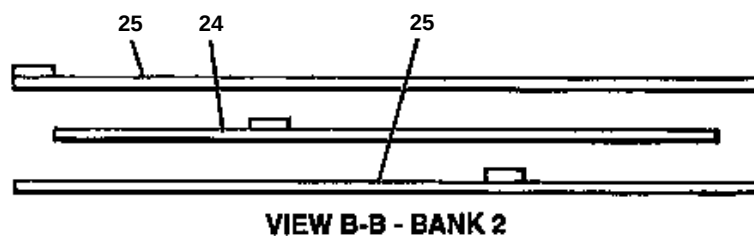
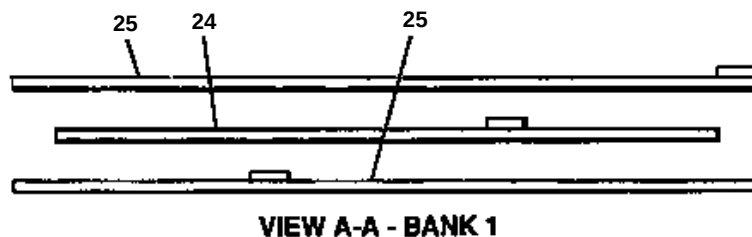
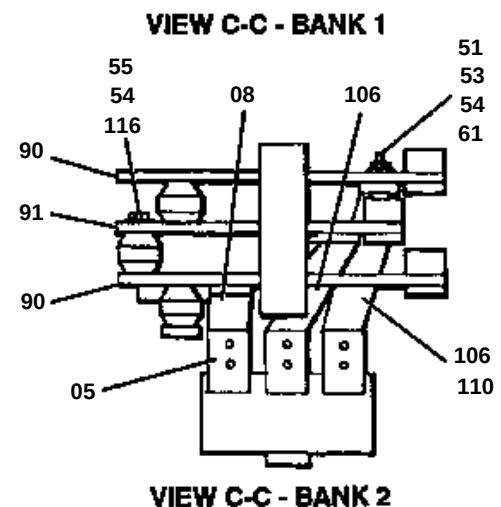
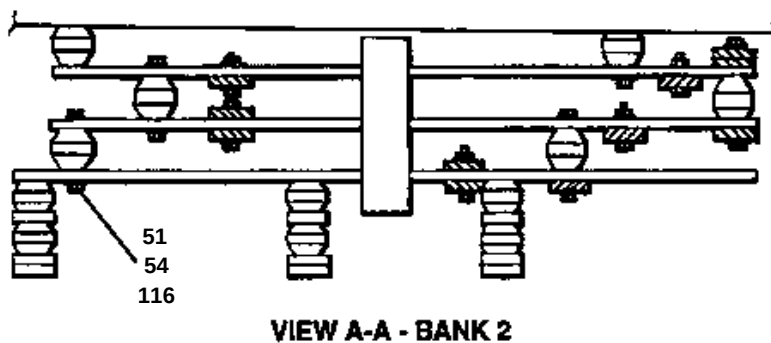
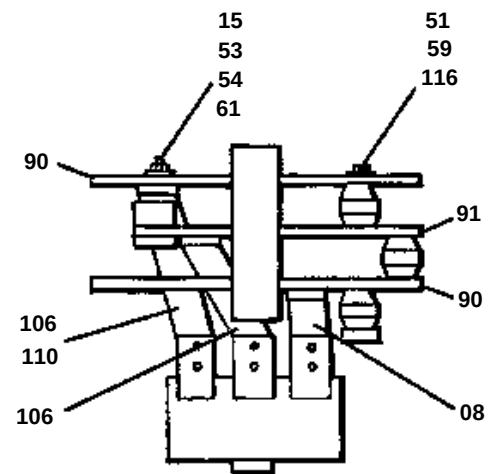
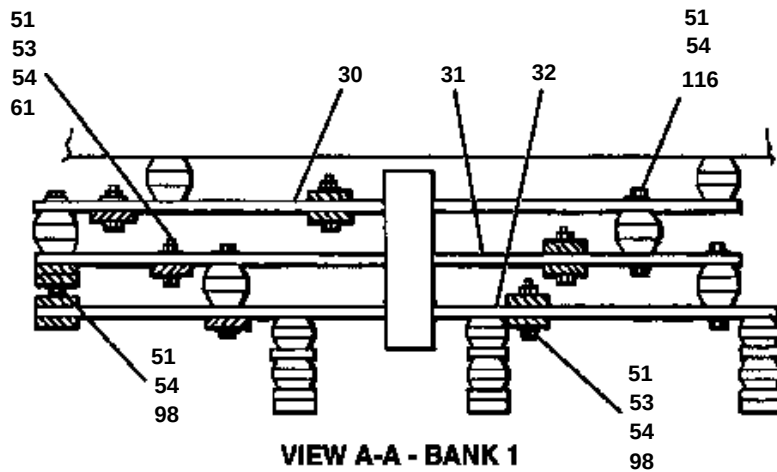
CABINET, BANKED RPC - BANKS 1/2 AND 1



F7175



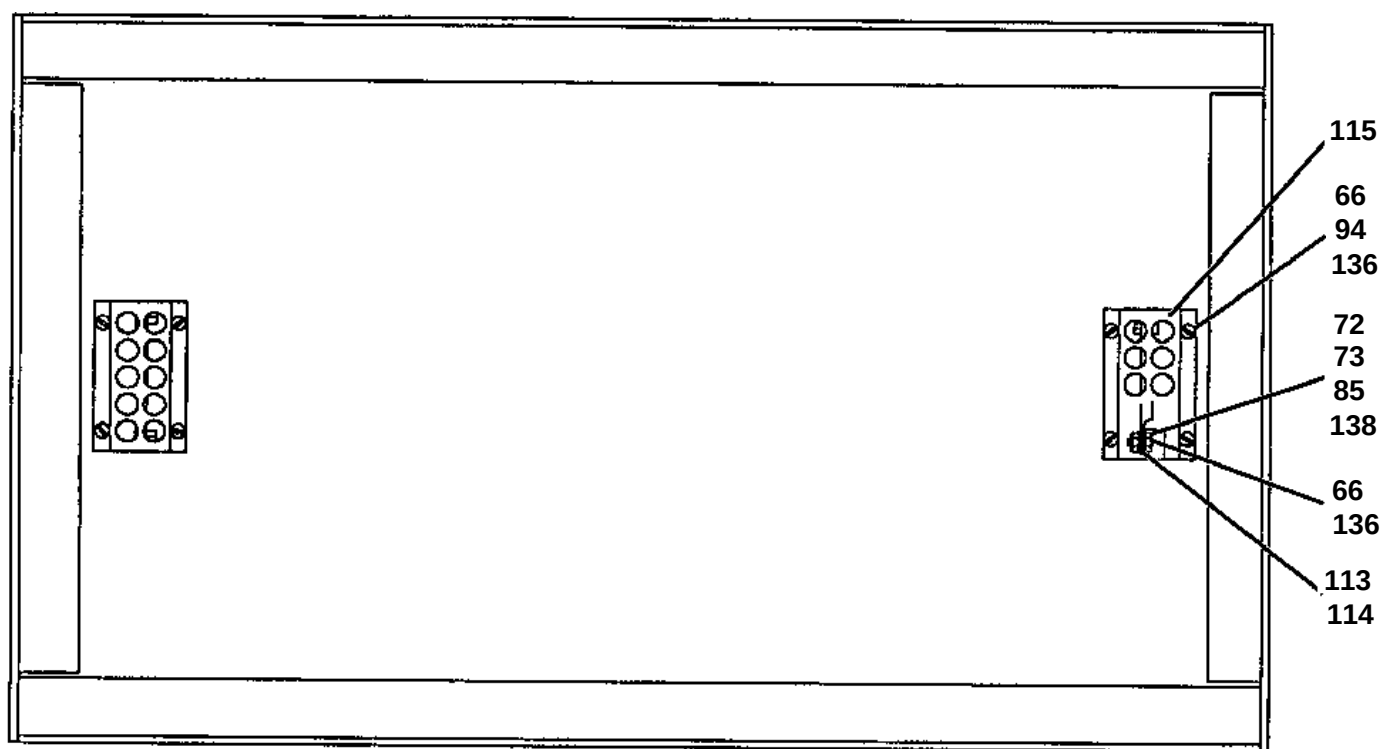
CABINET, BANKED RPC - BANKS 1/2 AND 1



F7178



CABINET, BANKED RPC - BANKS 1/2 AND 1



BOTTOM VIEW OF CABINET

F7177



CABINET, BANKED RPC - BANKS 1/2 AND 1

REF	PART NO.	DESCRIPTION	QTY
	100A13555F9	CABINET, BANKED RPC - BANKS 1/2 AND 1	
01	14A2635D12F11	· CABINET	1
02	84Q4D4	· CAPACITOR, 600VAC 1 phase	15
03	79Z4033D1	· FUSE, 1200V 200 Amp	27
04	R12601D1	· BREAKER, Circuit 1200 Amp	2
05	79F4858	· BUS BAR, Circuit Breaker Terminal	12
06	975E601F1	· REACTOR, Bank 1/2	3
07	16H5090	· BRACKET, Insulating	4
08	79F4058D6	· BUS BAR, Flexible	4
09	16F7405	· SUPPORT, Insulating Channel	16
10	18F2129D3	· SPACER, Insulating	16
11	975E644F1	· REACTOR, Bank 1	3
12	79F4058D9	· BUS BAR, Flexible	2
13	79H2234D1	· INSULATOR	6
14	79E5816D2	· BUS BAR, Flexible	2
15	79E5816D1	· BAR, Bus	2
16	79F4863	· BAR, Bus	2
17	79F4856	· BAR, Bus	6
18	79F4640D1	· CABLE, Jumper	15
19	79F4850D2	· TERMINAL, Fuse Mounting	15
20	79F4850D1	· TERMINAL, Fuse Mounting	12
21	79H2159D3	· BLOCK, Terminal	2
22	79H2159D32	· BLOCK, Terminal	1
23	16H5089D1	· BRACKET, Support	6
24	79F4642	· BAR, Bus	2
25	79F4641	· BAR, Bus	4
26	79Z2361D2	· STANDOFF	24
27	18H8907	· SUPPORT, Reactor	6
28	79Z2705D7	· STANDOFF	52
29	79Z2705D3	· STANDOFF	18
30	79F4853	· BAR, Bus	2
31	79F4855	· BAR, Bus	2
32	79F4854	· BAR, Bus	2
33	16F7146	· SPACER, Bus Bar Insulator	2
34		NOT USED	
35	16H4961	· BRACKET, Bus Bar Mounting	18
36	79F4857	· BAR, Bus	6



CABINET, BANKED RPC - BANKS 1/2 AND 1

REF	PART NO.	DESCRIPTION	QTY
37	21Z808	· COMPOUND, Electrical Joint	AR
38	16H5332	· BRACKET, Door Interlock	2
39	79Z1803D3	· INTERLOCK, Door	2
40	32Z1581D6	· DECAL, Danger 575V	35
41	14E4564	· COVER, RPC Cabinet	1
42	0844V065	· SCREW, Flat Hd Mach#10-24UNC x 3/4 in.	6
43	89Z393D1	· THERMOSTAT	1
44		NOT USED	
45	100A7959F2	· PC ASSEMBLY, Indicator Circuit	1
46		NOT USED	
47		NOT USED	
48	980F52-1	· RESISTOR ASSEMBLY	1
49		NOT USED	
50		NOT USED	
51	3609V008	· WASHER, Plain 3/8 in.	AR
52	0624V041	· SCREW, Hex Hd Cap 3/8-16UNC x 1-1/2 in.	12
53	2047V003	· NUT, Hex 3/8-16UNC	AR
54	17Z286D9	· SPRING, Disc 3/8 in.	AR
55	20Z1057D2	· NUT, Lock 1/2-13UNC	21
56	3616V011	· WASHER, Lock 1/2 in	AR
57	3608V012	· WASHER, Plain 1/2 in.	AR
58	0624V072	· SCREW, Hex Hd Cap 1/2-13UNC x 1-3/4 in.	60
59	17Z286D15	· SPRING, Disc 1/2 in.	AR
60	2047V005	· NUT, Hex 1/2-13UNC	AR
61	0624V042	· SCREW, Hex Hd Cap 3/8-16UNC x 1-3/4 in.	AR
62	18Z733D7	· WASHER, Lock Internal Tooth #10	4
63	20Q260D256	· SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in.	AR
64	3616V009	· WASHER, Lock 3/8 in.	AR
65	0862V096	· SCREW, Pan Hd Mach #10-24UNC 1/2 in.	6
66	3616V005	· WASHER, Lock #10	26
67	20Q260D325	· SCREW, Hex Hd Cap 1/2-13UNC x 1 in.	48
68		NOT USED	
69	3631V007	· WASHER, Plain 3/8 in.	34
70	20Q260D206	· SCREW, Hex Hd Cap 1/4-20UNC x 3-3/4 in.	8
71	3616V007	· WASHER, Lock 1/4 in.	60
72	3631V005	· WASHER, Plain 1/4 in	22
73	20Q270D16	· NUT, Hex 1/4-20UNC	12



CABINET, BANKED RPC - BANKS 1/2 AND 1

REF	PART NO.	DESCRIPTION	QTY
74	20Q260D214	· SCREW, Hex Hd Cap 1/4-20UNC x 7 in.	4
75	0860V117	· SCREW, Hex Hd Cap 1/4-20UNC x 1-1/2 in.	8
76	18Z733D9	· WASHER, Lock Internal Tooth 1/4 in.	8
77	79Z566D8	· DUCT, Wire 1 x 2 x 30 in.	AR
78	79Z566D1	· DUCT, Wire 1 x 1 x 53-1/2 in.	AR
79	0862V061	· SCREW, Pan Hd Mach #6-32UNC x 1/2 in.	6
80	3616V003	· WASHER, Lock #6	6
81		NOT USED	
82		NOT USED	
83		NOT USED	
84	3631V002	· WASHER, Plain #6	6
85	0862V136	· SCREW, Pan Hd Mach 1/4-20UNC x 3/4 in.	8
86	79Z2752D7	· INSULATOR, Hex	2
87	18H9141	· SUPPORT, Reactor	6
88	79F4213	· INSULATOR, Hex	2
89		NOT USED	
90	79F4860	· BAR, Bus	4
91	79F4859	· BAR, Bus	2
92	16F7157	· BRACKET, Mounting - Bus bar	2
93	20Q260D191	· SCREW, Hex Hd Cap 1/4-20UNC x 5/8 in.	40
94	3631V004	· WASHER, Plain #10	20
95	2136V005	· NUT, Hex #10-24UNC	8
96	3631V009	· WASHER, Plain 1/2 in.	48
97	0860V080	· SCREW, Pan Hd Mach #10-24UNC x 1 in.	4
98	0624V045	· SCREW, Hex Hd Cap 3/8-16UNC x 2 in.	15
99		NOT USED	
100	21Z729D3	· ADHESIVE	AR
101	16H5091	· INSULATOR, Circuit breaker	2
102	79Z566D8	· DUCT, Wire 1 x 2 x 33 in.	AR
103	79F4643D3	· BUS BAR, Flexible 15-1/2 in lg	9
104	79F4643D4	· BUS BAR, Flexible 19-1/2 in lg	6
105	79F4058D10	· BUS BAR, Flexible	4
106	79F4058D7	· BUS BAR, Flexible	4
107	0861V030	· SCREW, Round Hd Mach #10-32UNC x 3/8 in.	4
108	0624V070	· SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in.	24
109	79F4643D2	· BUS BAR, Flexible	3
110		NOT USED	

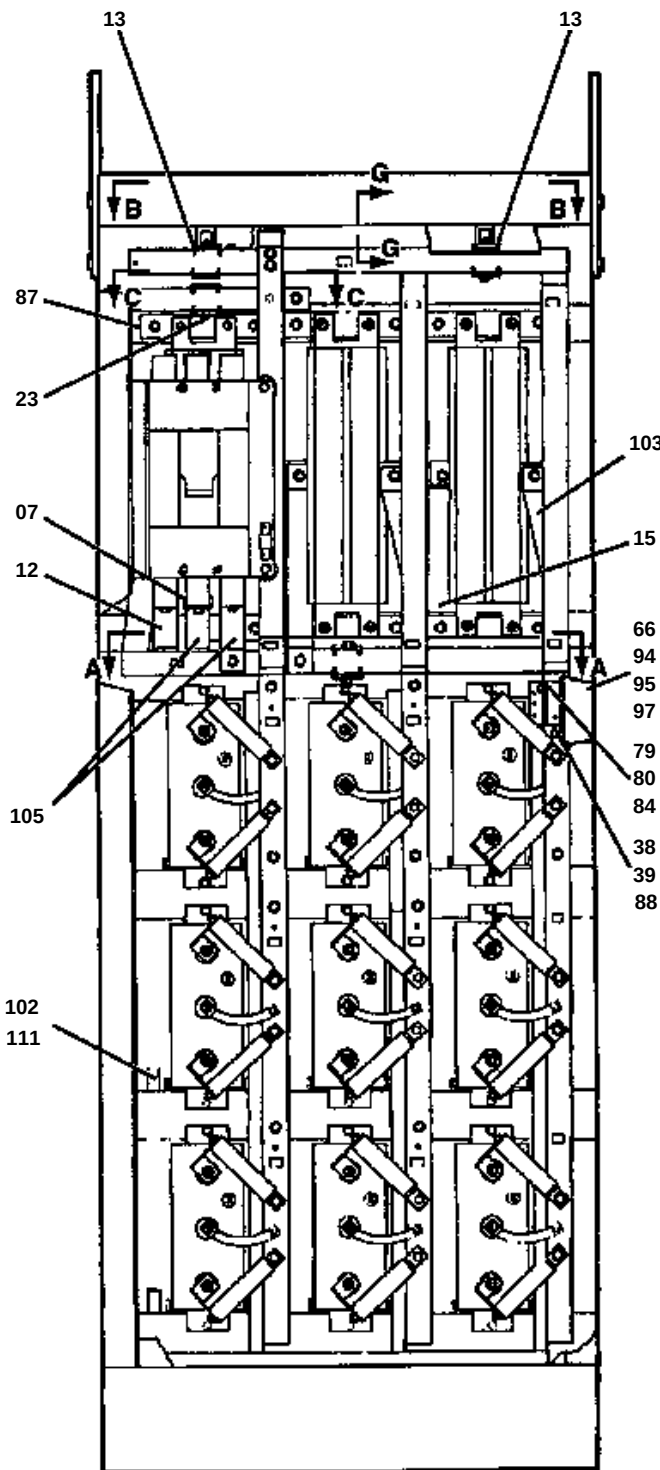


CABINET, BANKED RPC - BANKS 1/2 AND 1

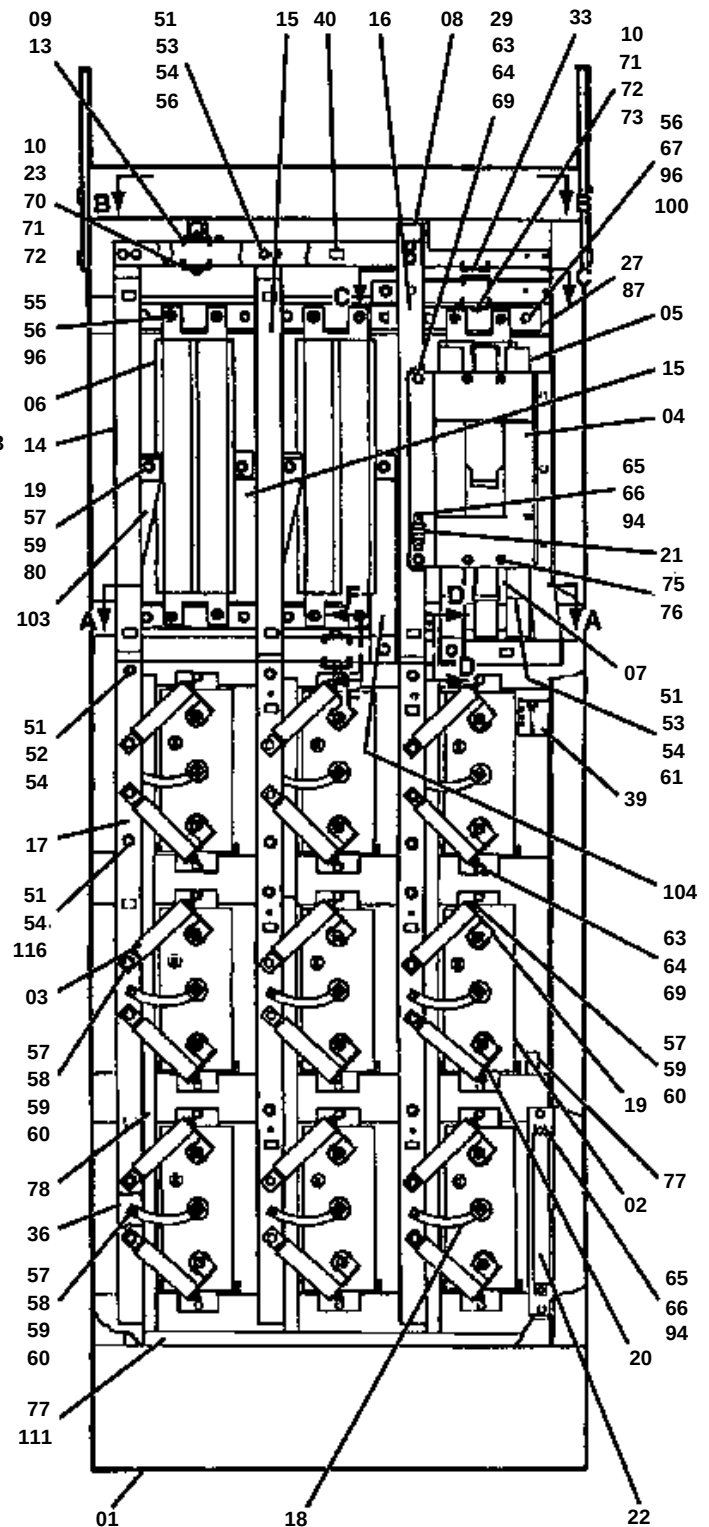
REF	PART NO.	DESCRIPTION	QTY
111	20Z1684D1	• RIVET, Nylon	24
112	79Z566D1	• DUCT, Wire 1 x 1 x 53-1/2 in.	AR
113	80Z112D11	• HEATER	2
114	16H5242	• BRACKET, Heater Mounting	4
115	14F3919	• GUARD, Heater	2
116	0624V039	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in.	AR
117	0624V073	• SCREW, Hex Hd Cap 1/2-13UNC x 2 in.	6
118		NOT USED	
119		NOT USED	
120	87Z256D4	• BOX, Outlet	3
121	87Z309D2	• COVER, Outlet box	2
122		NOT USED	
123		NOT USED	
124		NOT USED	
125		NOT USED	
126		NOT USED	
127		NOT USED	
128		NOT USED	
129		NOT USED	
130	20H4197D5	• GASKET	2
131	P&H Spec 3302	• GASKET, W/Adhesive Back	AR
132	P&H Spec 1424	• ADHESIVE	AR
133		NOT USED	
134	080965107	• SLEEVING, Fiberglass	3
135	R28374D1	• BAR, Bus	3
136	0862V094	• SCREW, Pan Hd Mach #10-24UNC x 3/8 in.	12
137	3608V011	• WASHER, Brass 3/8 in.	AR
138	18H4145D7	• WASHER, Lock External Tooth 1/4 in.	4
139		NOT USED	
140		NOT USED	
141	20Q260D189	• SCREW, Hex Hd Cap 1/4-20UNC x 1/2 in.	6



CABINET, BANKED RPC - BANKS 2 AND 3



REAR VIEW-BANK 1
FRONT VIEW-BANK 2

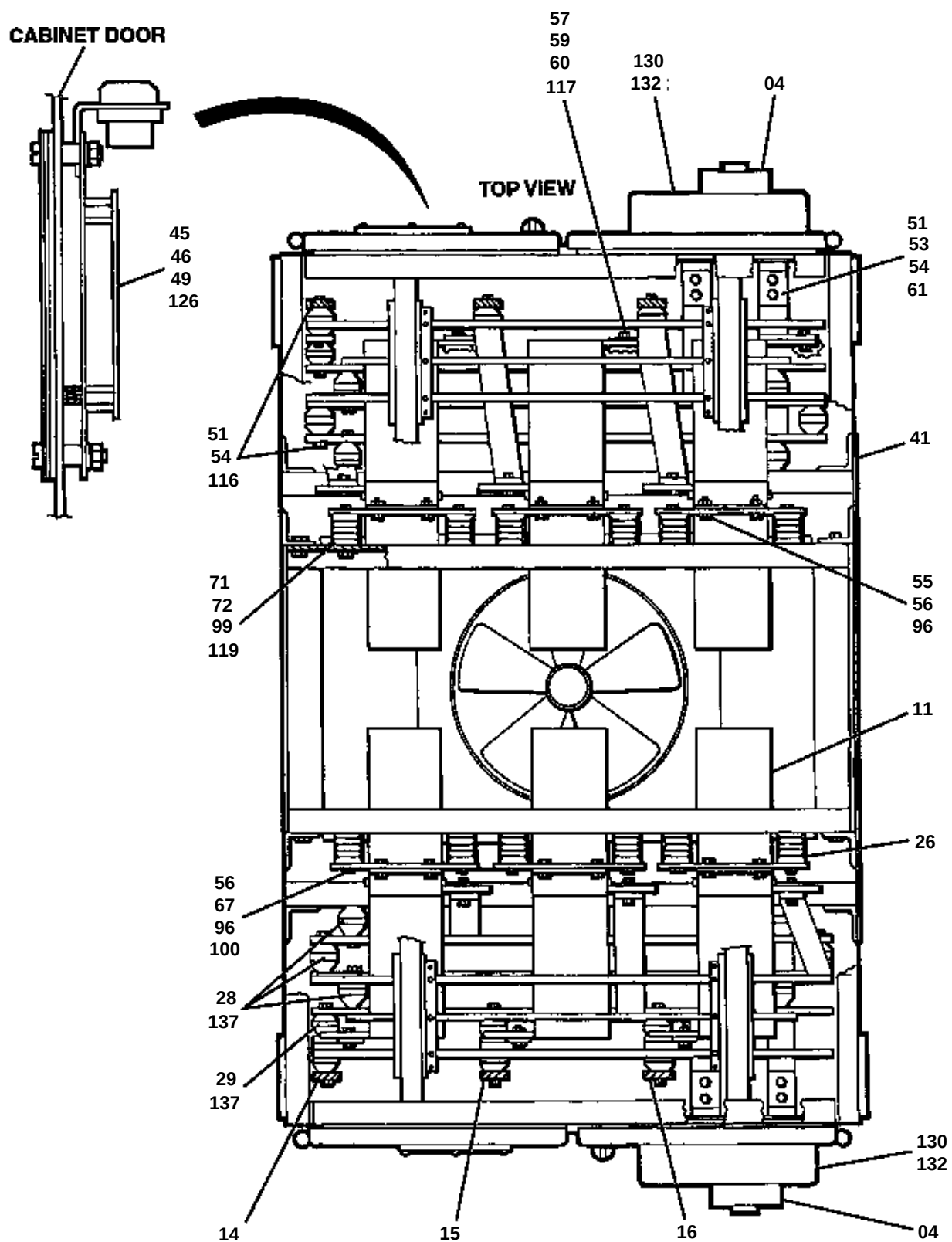


FRONT VIEW-BANK 1/2
REAR VIEW-BANK 3

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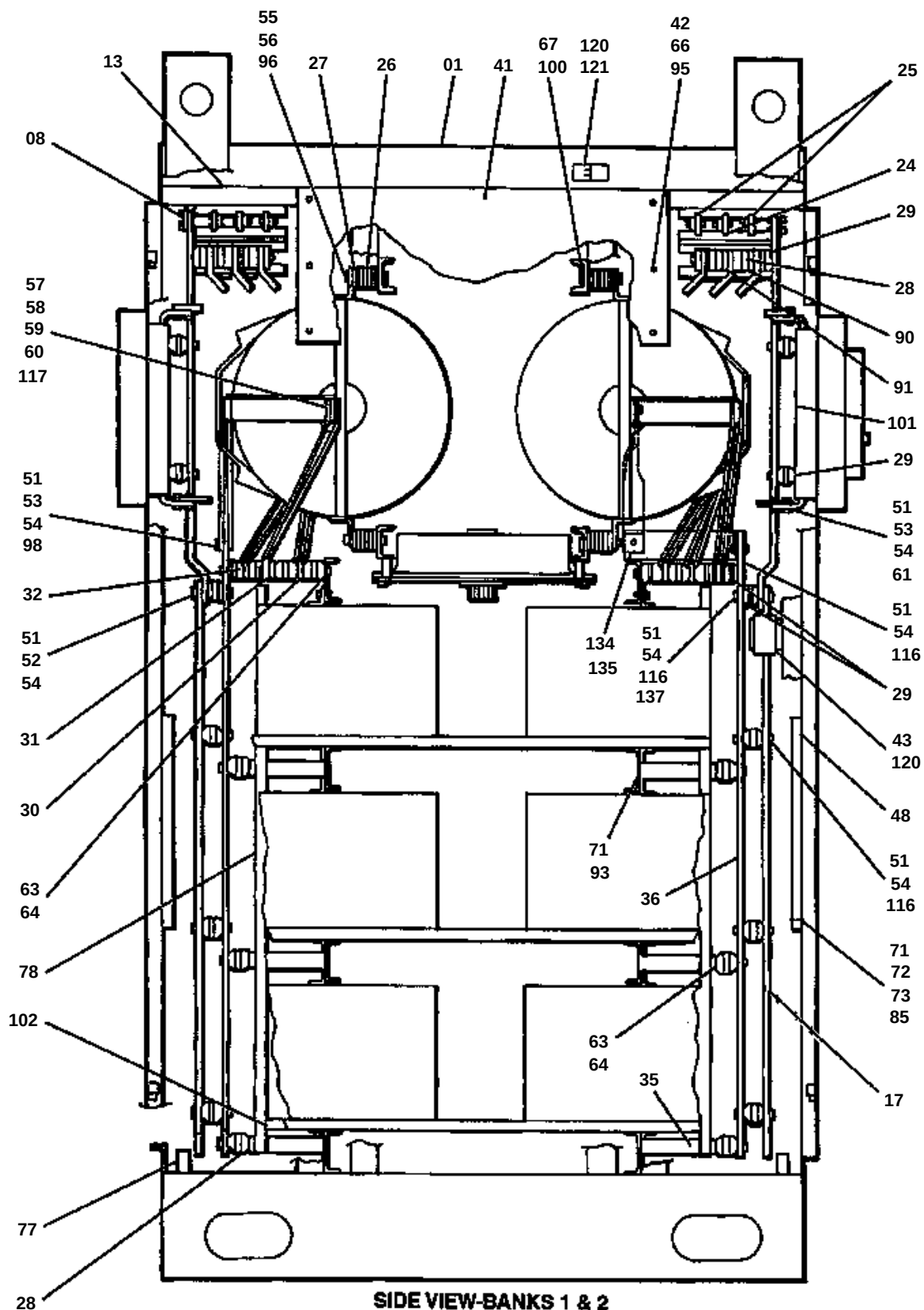
CABINET, BANKED RPC - BANKS 2 AND 3



F7174



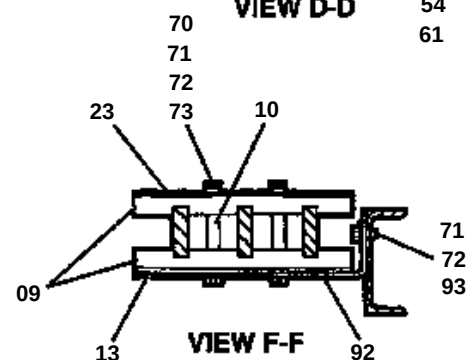
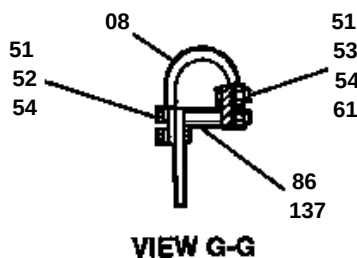
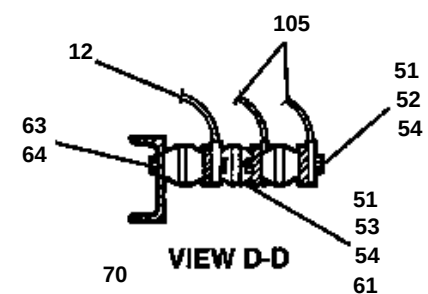
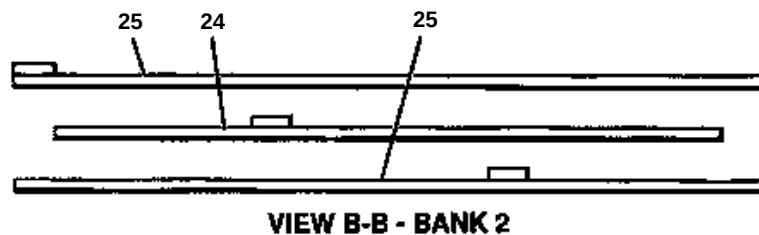
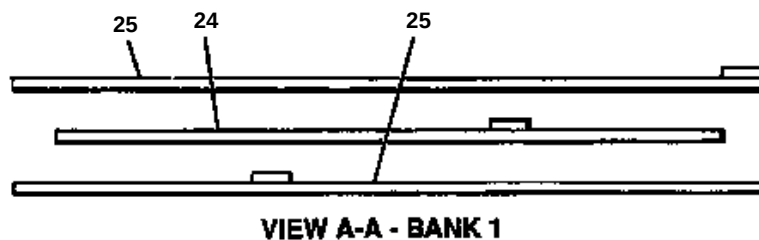
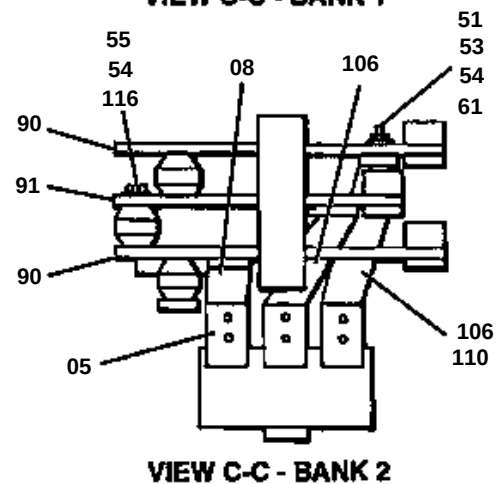
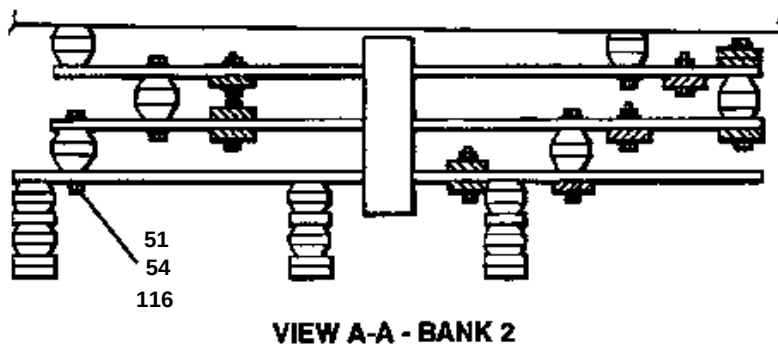
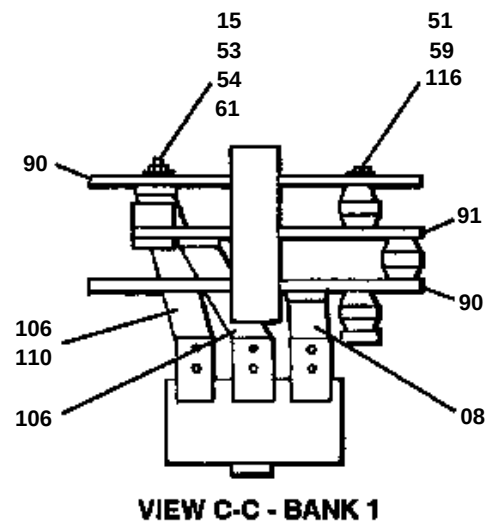
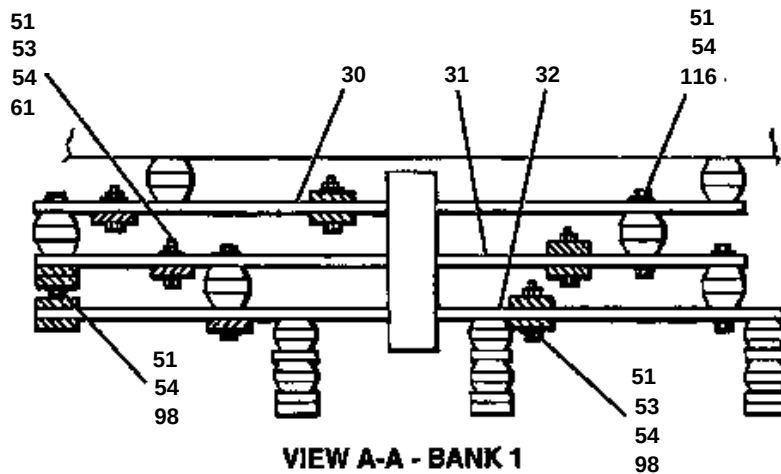
CABINET, BANKED RPC - BANKS 2 AND 3



F7175



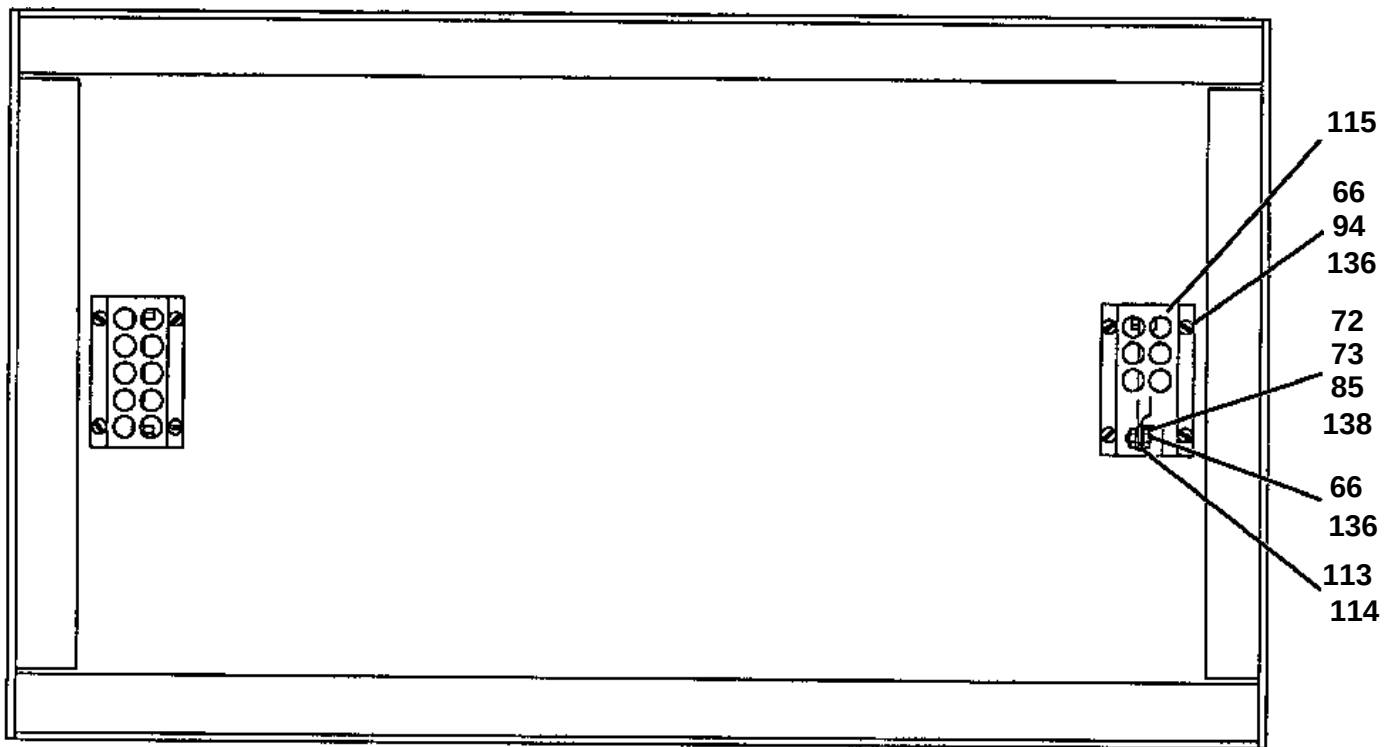
CABINET, BANKED RPC - BANKS 2 AND 3



F7178



CABINET, BANKED RPC - BANKS 2 AND 3



BOTTOM VIEW OF CABINET

F7177



CABINET, BANKED RPC - BANKS 2 AND 3

REF	PART NO.	DESCRIPTION	QTY
	100A13555F12	CABINET, BANKED RPC - BANKS 2 AND 3	
01	14A2635D12F11	• CABINET	1
02	84Q4D4	• CAPACITOR, 600VAC 1 phase	18
03	79Z4033D1	• FUSE, 1200V 200 Amp	36
04	R12601D1	• BREAKER, Circuit 1200 Amp	2
05	79F4858	• BUS BAR, Circuit Breaker Terminal	12
06		NOT USED	
07	16H5090	• BRACKET, Insulating	4
08	79F4058D6	• BUS BAR, Flexible	4
09	16F7405	• SUPPORT, Insulating Channel	16
10	18F2129D3	• SPACER, Insulating	16
11	975E644F1	• REACTOR, Bank 1	6
12	79F4058D9	• BUS BAR, Flexible	2
13	79H2234D1	• INSULATOR	6
14	79E5816D2	• BUS BAR, Flexible	2
15	79E5816D1	• BAR, Bus	2
16	79F4863	• BAR, Bus	2
17	79F4856	• BAR, Bus	6
18	79F4640D1	• CABLE, Jumper	18
19	79F4850D2	• TERMINAL, Fuse Mounting	18
20	79F4850D1	• TERMINAL, Fuse Mounting	18
21	79H2159D3	• BLOCK, Terminal	2
22	79H2159D32	• BLOCK, Terminal	1
23	16H5089D1	• BRACKET, Support	6
24	79F4642	• BAR, Bus	2
25	79F4641	• BAR, Bus	4
26	79Z2361D2	• STANDOFF	24
27		NOT USED	
28	79Z2705D7	• STANDOFF	52
29	79Z2705D3	• STANDOFF	18
30	79F4853	• BAR, Bus	2
31	79F4855	• BAR, Bus	2
32	79F4854	• BAR, Bus	2
33	16F7146	• SPACER, Bus Bar Insulator	2
34		NOT USED	
35	16H4961	• BRACKET, Bus Bar Mounting	18
36	79F4857	• BAR, Bus	6



CABINET, BANKED RPC - BANKS 2 AND 3

REF	PART NO.	DESCRIPTION	QTY
37	21Z808	· COMPOUND, Electrical Joint	AR
38	16H5332	· BRACKET, Door Interlock	2
39	79Z1803D3	· INTERLOCK, Door	2
40	32Z1581D6	· DECAL, Danger 575V	35
41	14E4564	· COVER, RPC Cabinet	1
42	0844V065	· SCREW, Flat Hd Mach#10-24UNC x 3/4 in.	6
43	89Z393D1	· THERMOSTAT	1
44		NOT USED	
45		NOT USED	
46		NOT USED	
47		NOT USED	
48	980F52-1	· RESISTOR ASSEMBLY	1
49	100A7959F5	· PC ASSEMBLY, Indicator Circuit	1
50		NOT USED	
51	3609V008	· WASHER, Plain 3/8 in.	AR
52	0624V041	· SCREW, Hex Hd Cap 3/8-16UNC x 1-1/2 in.	12
53	2047V003	· NUT, Hex 3/8-16UNC	AR
54	17Z286D9	· SPRING, Disc 3/8 in.	AR
55	20Z1057D2	· NUT, Lock 1/2-13UNC	24
56	3616V011	· WASHER, Lock 1/2 in	AR
57	3608V012	· WASHER, Plain 1/2 in.	AR
58	0624V072	· SCREW, Hex Hd Cap 1/2-13UNC x 1-3/4 in.	54
59	17Z286D15	· SPRING, Disc 1/2 in.	AR
60	2047V005	· NUT, Hex 1/2-13UNC	AR
61	0624V042	· SCREW, Hex Hd Cap 3/8-16UNC x 1-3/4 in.	AR
62	18Z733D7	· WASHER, Lock Internal Tooth #10	4
63	20Q260D256	· SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in.	AR
64	3616V009	· WASHER, Lock 3/8 in.	AR
65	0862V096	· SCREW, Pan Hd Mach #10-24UNC 1/2 in.	6
66	3616V005	· WASHER, Lock #10	26
67	20Q260D325	· SCREW, Hex Hd Cap 1/2-13UNC x 1 in.	48
68		NOT USED	
69	3631V007	· WASHER, Plain 3/8 in.	40
70	20Q260D206	· SCREW, Hex Hd Cap 1/4-20UNC x 3-3/4 in.	8
71	3616V007	· WASHER, Lock 1/4 in.	60
72	3631V005	· WASHER, Plain 1/4 in	22
73	20Q270D16	· NUT, Hex 1/4-20UNC	12



CABINET, BANKED RPC - BANKS 2 AND 3

REF	PART NO.	DESCRIPTION	QTY
74	20Q260D214	· SCREW, Hex Hd Cap 1/4-20UNC x 7 in.	4
75	0860V117	· SCREW, Hex Hd Cap 1/4-20UNC x 1-1/2 in.	8
76	18Z733D9	· WASHER, Lock Internal Tooth 1/4 in.	8
77	79Z566D8	· DUCT, Wire 1 x 2 x 30 in.	AR
78	79Z566D1	· DUCT, Wire 1 x 1 x 53-1/2 in.	AR
79	0862V061	· SCREW, Pan Hd Mach #6-32UNC x 1/2 in.	6
80	3616V003	· WASHER, Lock #6	6
81		NOT USED	
82		NOT USED	
83		NOT USED	
84	3631V002	· WASHER, Plain #6	6
85	0862V136	· SCREW, Pan Hd Mach 1/4-20UNC x 3/4 in.	8
86	79Z2752D7	· INSULATOR, Hex	2
87	18H9141	· SUPPORT, Reactor	12
88	79F4213	· INSULATOR, Hex	2
89		NOT USED	
90	79F4860	· BAR, Bus	4
91	79F4859	· BAR, Bus	2
92	16F7157	· BRACKET, Mounting - Bus bar	2
93	20Q260D191	· SCREW, Hex Hd Cap 1/4-20UNC x 5/8 in.	40
94	3631V004	· WASHER, Plain #10	20
95	2136V005	· NUT, Hex #10-24UNC	8
96	3631V009	· WASHER, Plain 1/2 in.	48
97	0860V080	· SCREW, Pan Hd Mach #10-24UNC x 1 in.	4
98	0624V045	· SCREW, Hex Hd Cap 3/8-16UNC x 2 in.	15
99		NOT USED	
100	21Z729D3	· ADHESIVE	AR
101	16H5091	· INSULATOR, Circuit breaker	2
102	79Z566D8	· DUCT, Wire 1 x 2 x 33 in.	AR
103	79F4643D3	· BUS BAR, Flexible 15-1/2 in lg	12
104	79F4643D4	· BUS BAR, Flexible 19-1/2 in lg	8
105	79F4058D10	· BUS BAR, Flexible	4
106	79F4058D7	· BUS BAR, Flexible	4
107	0861V030	· SCREW, Round Hd Mach #10-32UNC x 3/8 in.	4
108	0624V070	· SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in.	24
109	79F4643D2	· BUS BAR, Flexible	4
110	79F4058D8	· BUS BAR, Flexible	2

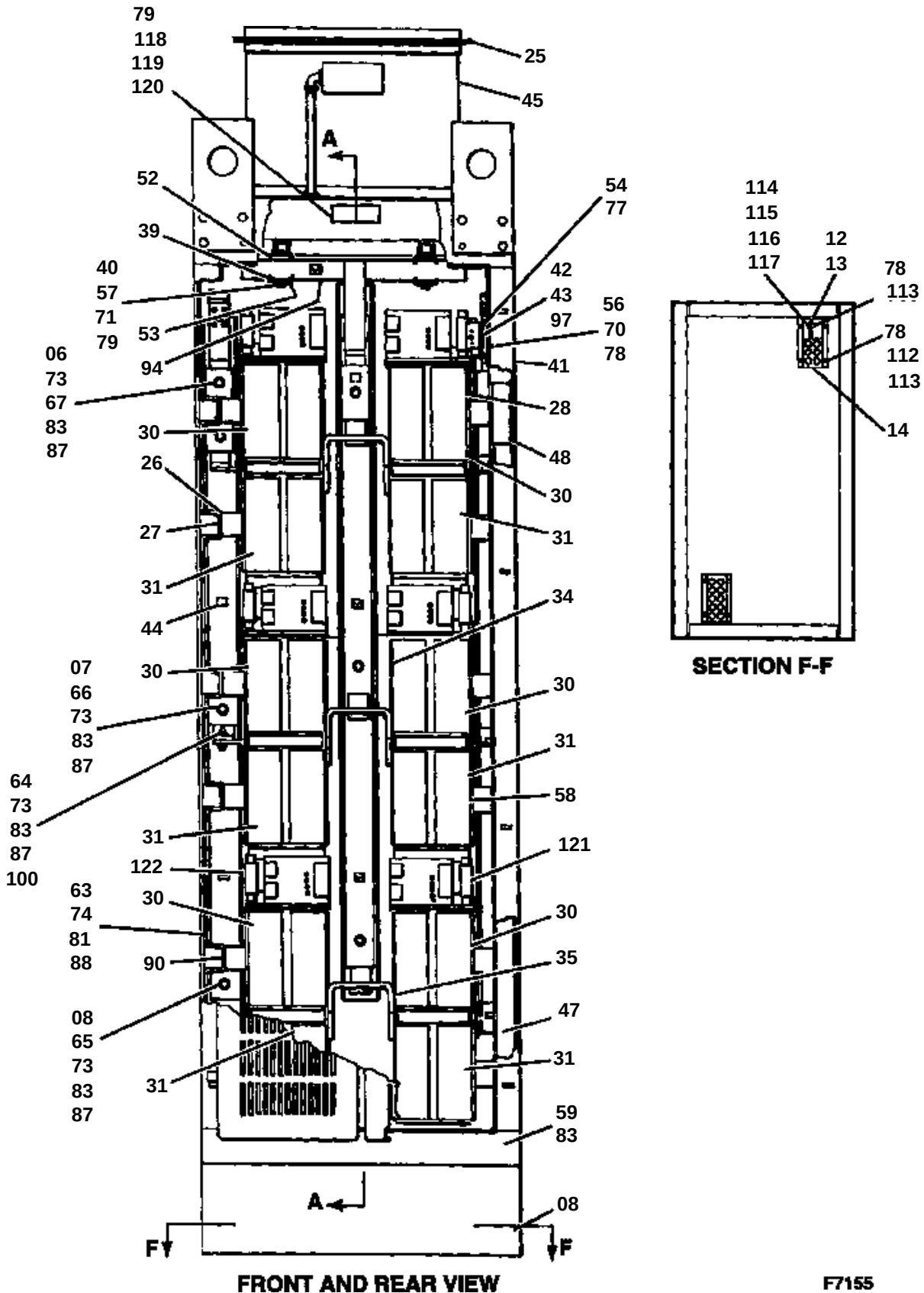


CABINET, BANKED RPC - BANKS 2 AND 3

REF	PART NO.	DESCRIPTION	QTY
111	20Z1684D1	• RIVET, Nylon	24
112	79Z566D1	• DUCT, Wire 1 x 1 x 53-1/2 in.	AR
113	80Z112D11	• HEATER	2
114	16H5242	• BRACKET, Heater Mounting	4
115	14F3919	• GUARD, Heater	2
116	0624V039	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in.	AR
117	0624V073	• SCREW, Hex Hd Cap 1/2-13UNC x 2 in.	12
118		NOT USED	
119		NOT USED	
120	87Z256D4	• BOX, Outlet	3
121	87Z309D2	• COVER, Outlet box	2
122		NOT USED	
123		NOT USED	
124		NOT USED	
125		NOT USED	
126		NOT USED	
127		NOT USED	
128		NOT USED	
129		NOT USED	
130	20H4197D5	• GASKET	2
131	P&H Spec 3302	• GASKET, W/Adhesive Back	AR
132	P&H Spec 1424	• ADHESIVE	AR
133		NOT USED	
134	080965107	• SLEEVING, Fiberglass	3
135	R28374D1	• BAR, Bus	3
136	0862V094	• SCREW, Pan Hd Mach #10-24UNC x 3/8 in.	12
137	3608V011	• WASHER, Brass 3/8 in.	AR
138	18H4145D7	• WASHER, Lock External Tooth 1/4 in.	4
139		NOT USED	
140		NOT USED	
141	20Q260D189	• SCREW, Hex Hd Cap 1/4-20UNC x 1/2 in.	6

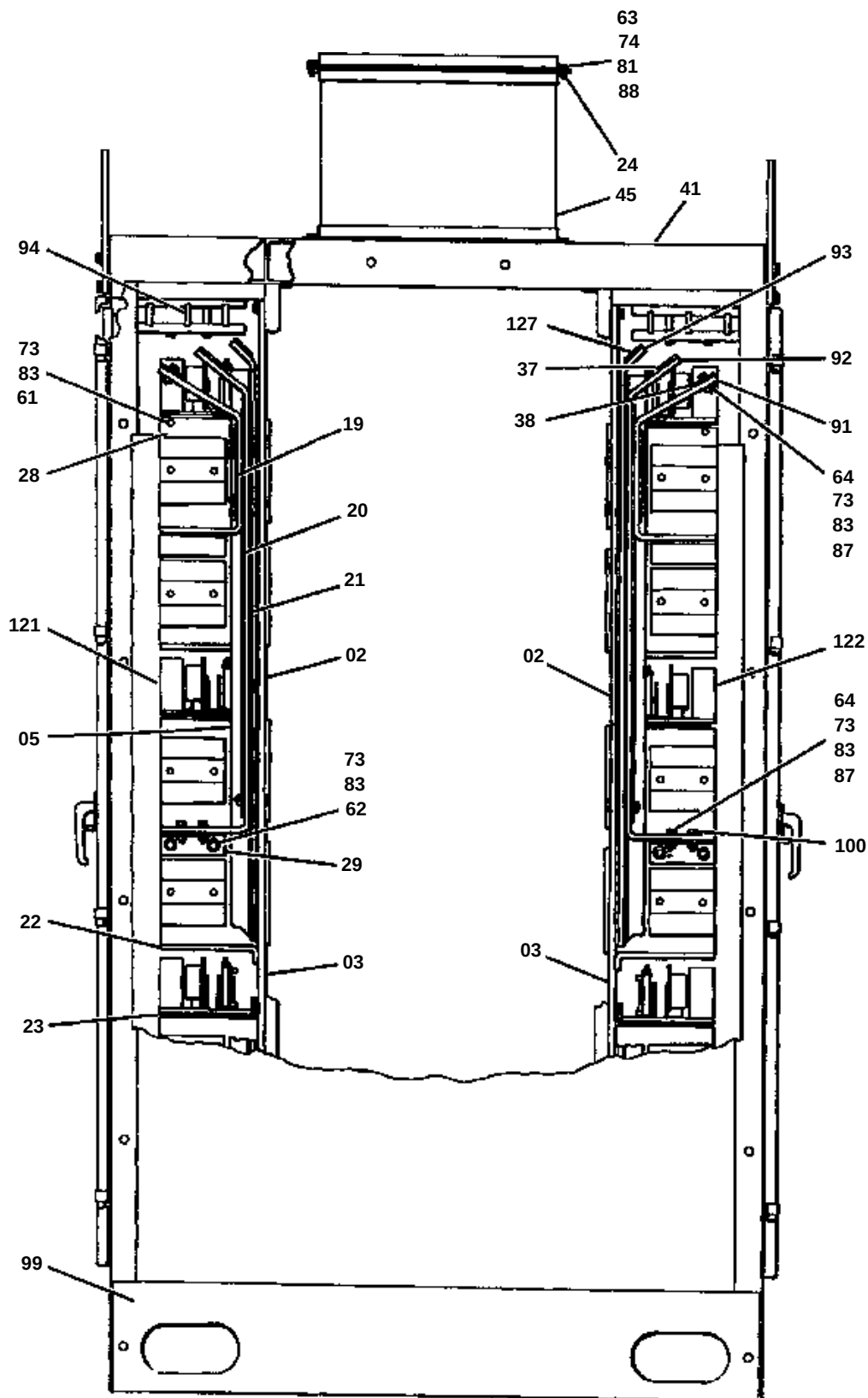


RPC CABINET, THYRISTOR SWITCHING





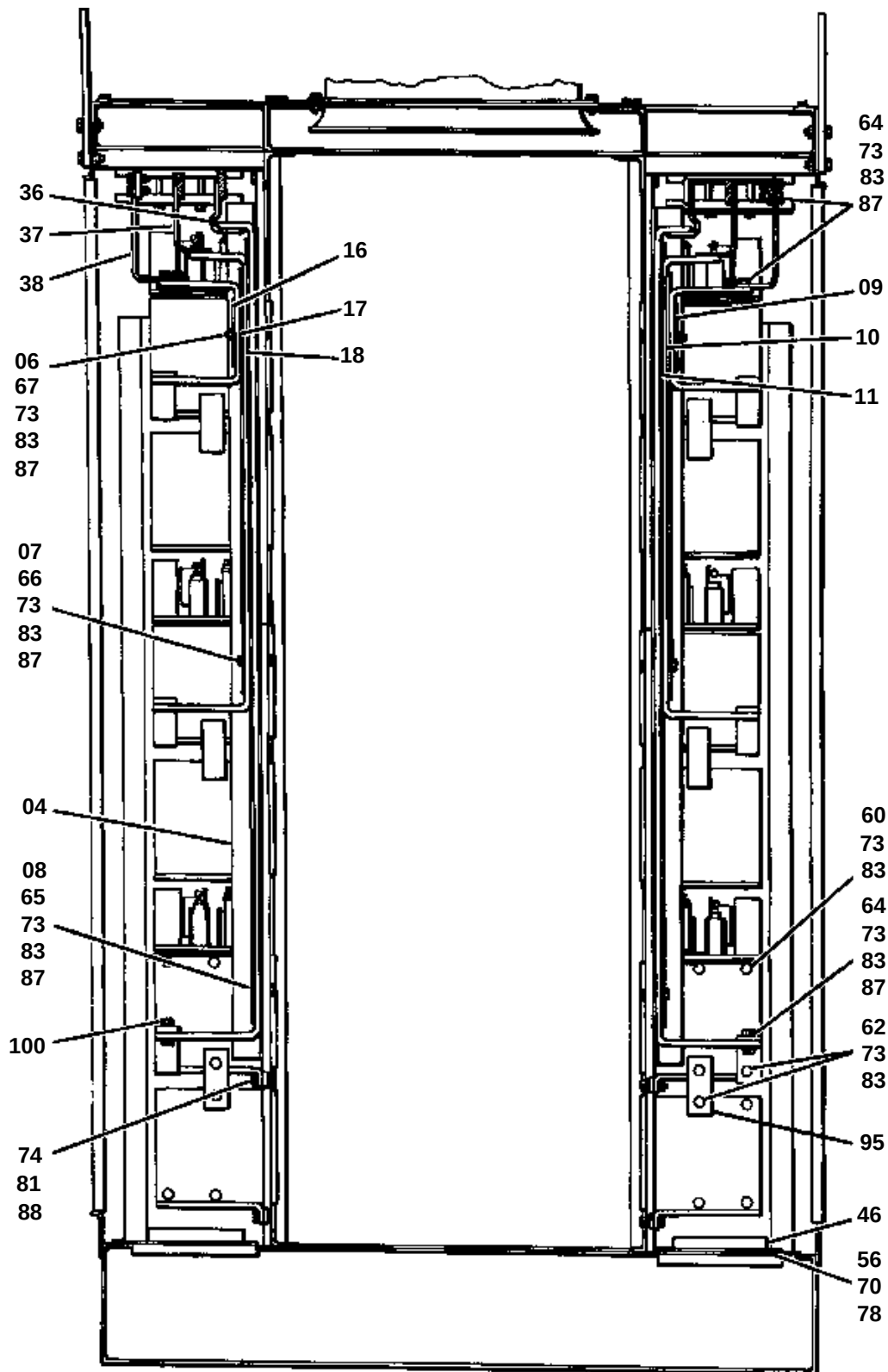
RPC CABINET, THYRISTOR SWITCHING



F7158



RPC CABINET, THYRISTOR SWITCHING



F7157



RPC CABINET, THYRISTOR SWITCHING

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100A12130F36	RPC CABINET, THYRISTOR SWITCHING		
01		NOT USED		
02	79A1871F1	• PANEL, RPC upper	2	
03	79A1872F1	• PANEL, RPC lower	2	
04	79E5352	• CHANNEL, Insulating	2	
05	79E5353	• CHANNEL, Insulating	4	
06	18F2129D12	• SPACER, Insulating 1 937 lg.	10	
07	18F2129D13	• SPACER, Insulating 1-5/16 in lg.	6	
08	18F2129D14	• SPACER, Insulating 5/8 in lg.	6	
09	79E5358D1	• BAR, Bus	2	
10	79E5358D2	• BAR, Bus	2	
11	79E5358D3	• BAR, Bus	2	
12	80Z112D11	• HEATER	2	
13	16H5242	• BRACKET, Heater mounting	4	
14	14F3919	• GUARD, Heater	2	
15	18Z3071D1	• WASHER, Shoulder Nylon	AR	
16	79E5354D1	• STRIP, Insulating	2	
17	79E5354D2	• STRIP, Insulating	2	
18	79E5354D3	• STRIP, Insulating	2	
19	79E5355D1	• STRIP, Insulating	4	
20	79E5355D2	• STRIP, Insulating	4	
21	79E5355D3	• STRIP, Insulating	4	
22	16F7109D1	• HEATSINK, Support	24	
23	16F7108	• INSULATING, Bracket	12	
24		NOT USED		
25		NOT USED		
26	79Z2361D1	• STANDOFF, 2-1/8 in lg.	48	
27	21Z729D3	• ADHESIVE	AR	
28	16F7116	• BRACKET, Heatsink mounting	12	
29	79F4528	• BUS BAR, Terminal	12	
30	979E307F9	• HEATSINK SUB-ASSEMBLY	12	14-22
31	979E307F7	• HEATSINK SUB-ASSEMBLY	12	14-21
32		NOT USED		
33		NOT USED		
34	27F158D1	• BAFFLE HEATSINK SIDE	24	
35	79F4525	• BUS BAR, Flexible 6-5/8 lg.	6	
36	79F4058D5	• BUS BAR, Flexible 8 in lg.	2	



RPC CABINET, THYRISTOR SWITCHING

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	79F4058D6	• BUS BAR, Flexible 10-1/2 lg.	2	
38	79F4058D7	• BUS BAR, Flexible 13 in lg.	6	
39	16F7124	• SUPPORT, Bus bar	8	
40	18F2129D3	• SPACER, Insulating 2-5/8 lg.	8	
41	14A2341D2F1	• CABINET	1	
42	79Z1803D3	• INTERLOCK, Door	2	
43	16H5370	• BRACKET, Door interlock	2	
44	32Z1581D8	• DECAL, Danger 575V	18	
45	49Q8	• FAN	1	14-2
46		NOT USED		
47	79Z566D7	• DUCT, Wire 1-1/2 x 2 x 72 lg.	4	
48	79Z566D7	• DUCT, Wire 1-1/2 x 2 x 6 lg	AR	
49	21Z808	• COMPOUND, Electrical Joint	AR	
50		NOT USED		
51		NOT USED		
52	79H2234D2	• INSULATOR	4	
53	16H5089D2	• BRACKET, Support	4	
54	0862V060	• SCREW, Pan Hd Mach 6-32 x 1/2 in lg.	4	
55	79H2159D28	• TERMINAL BLOCK ASSEMBLY, 28 Pos	2	
56	0826V096	• SCREW, Pan Hd Mach 10-24 x 1/2 in lg.	8	
57	20Q260D205	• SCREW, Hex Hd Cap 1/4-20 x 3-1/2 in lg.	8	
58	0844V127	• SCREW, Flat Hd Mach 3/8-16 x 3/4 in lg.	48	
59	20Q260D256	• SCREW, Hex Hd Cap 3/8-16 x 3/4 in lg.	24	
60	9824V037	• SCREW, Hex Hd Cap 3/8-16 x 3/4 in lg.	60	
61	9824V039	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in lg.	72	
62	9824V040	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/4 in lg.	60	
63	20Q260D260	• SCREW, Hex Hd Cap 3/8-16 x 1-1/4 in lg.	AR	
64	9824V042	• SCREW, Hex Hd Cap 3/8-16 x 1-3/4 in lg.	78	
65	9824V045	• SCREW, Hex Hd Cap 3/8-16 x 2 in lg.	6	
66	9824V048	• SCREW, Hex Hd Cap 3/8-16 x 2-1/4 in lg.	6	
67	9824V050	• SCREW, Hex Hd Cap 3/8-16 x 3-1/4 in lg.	10	
68		NOT USED		
69		NOT USED		
70	3631V004	• WASHER, Plain #10	8	
71	3631V005	• WASHER, Plain 1/4 in.	8	
72		NOT USED		
73	9629V008	• WASHER, Plain 3/8 in.	AR	



RPC CABINET, THYRISTOR SWITCHING

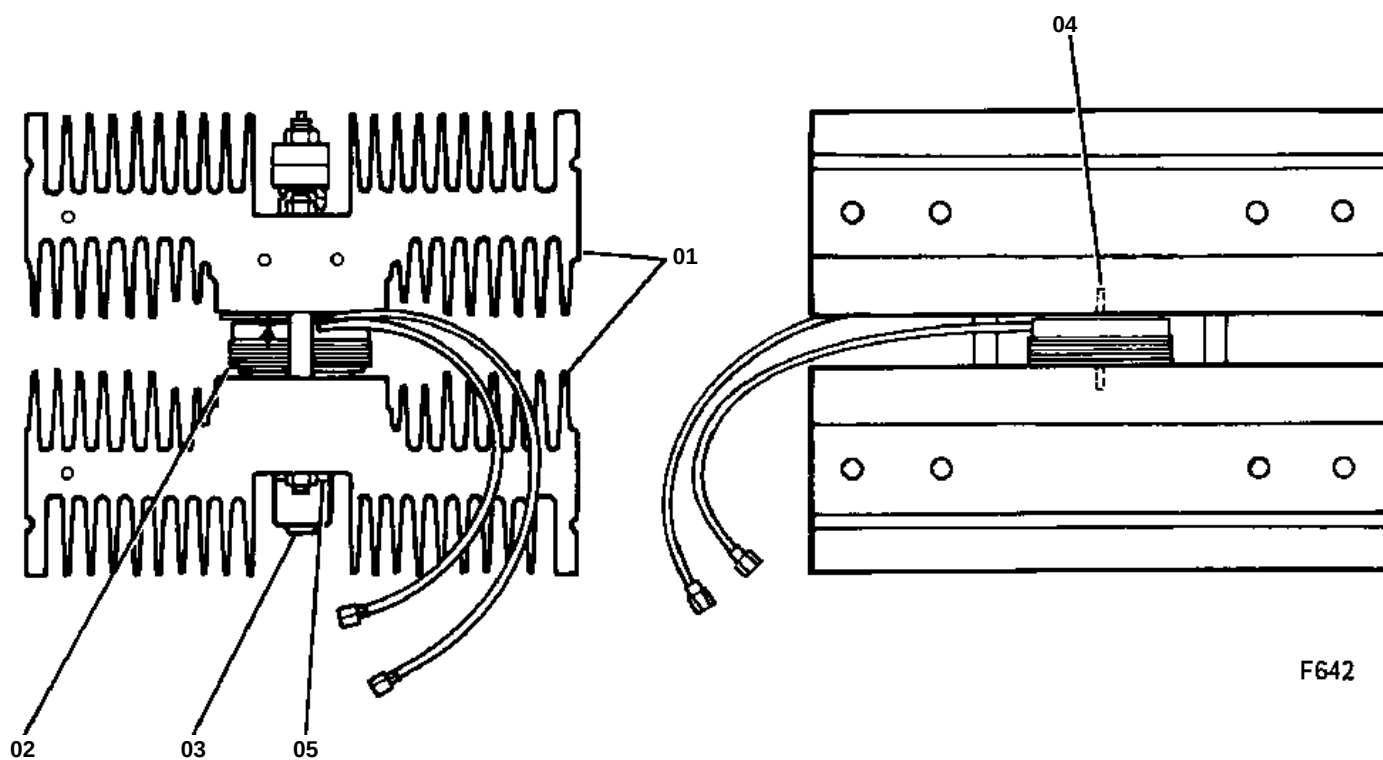
REF	PART NO.	DESCRIPTION	QTY	PAGE
74	3631V007	• WASHER, Plain 3/8 in.	AR	
75		NOT USED		
76		NOT USED		
77	3616V003	• WASHER, Lock #6	4	
78	3616V005	• WASHER, Lock, #10	20	
79	3616V007	• WASHER, Lock 1/4 in.	12	
80		NOT USED		
81	3616V009	• WASHER, Lock 3/8 in.	AR	
82		NOT USED		
83	17Z286D9	• WASHER, Disc spring 3/8	AR	
84	79Z878D2	• CONNECTOR, Straight	1	
85	P&H Spec 304A	• CONDUIT, 3/4 x 18 in.	AR	
86	79Z880D2	• CONNECTOR, 90 Deg.	1	
87	9147V003	• NUT, Hex 3/8-16	AR	
88	2145V003	• NUT, Hex 3/8-16	AR	
89		NOT USED		
90	16F7356	• BRACKET	24	
91	79E5505D1	• BAR, Bus	4	
92	79E5505D2	• BAR, Bus	4	
93	79E5505D3	• BAR, Bus	4	
94	79F4634	• BAR, Bus	6	
95	79H2202	• BUS BAR, Flexible 5 in lg.	AR	
96		NOT USED		
97	79F4213	• INSULATOR, Door interlock	2	
98	14F4711	• SCREEN, Fan	1	
99	79Z566D1	• DUCT, Wire 1 x 1 x 54 in lg.	AR	
100	79Z2724D6	• TERMINAL	24	
101		NOT USED		
102		NOT USED		
103		NOT USED		
104		NOT USED		
105		NOT USED		
106		NOT USED		
107		NOT USED		
108		NOT USED		
109		NOT USED		
110	79T488	• INSULATOR	16	

RPC CABINET, THYRISTOR SWITCHING

[illegible]



HEAT SINK---POLARITY OPPOSITE OF SHOWN





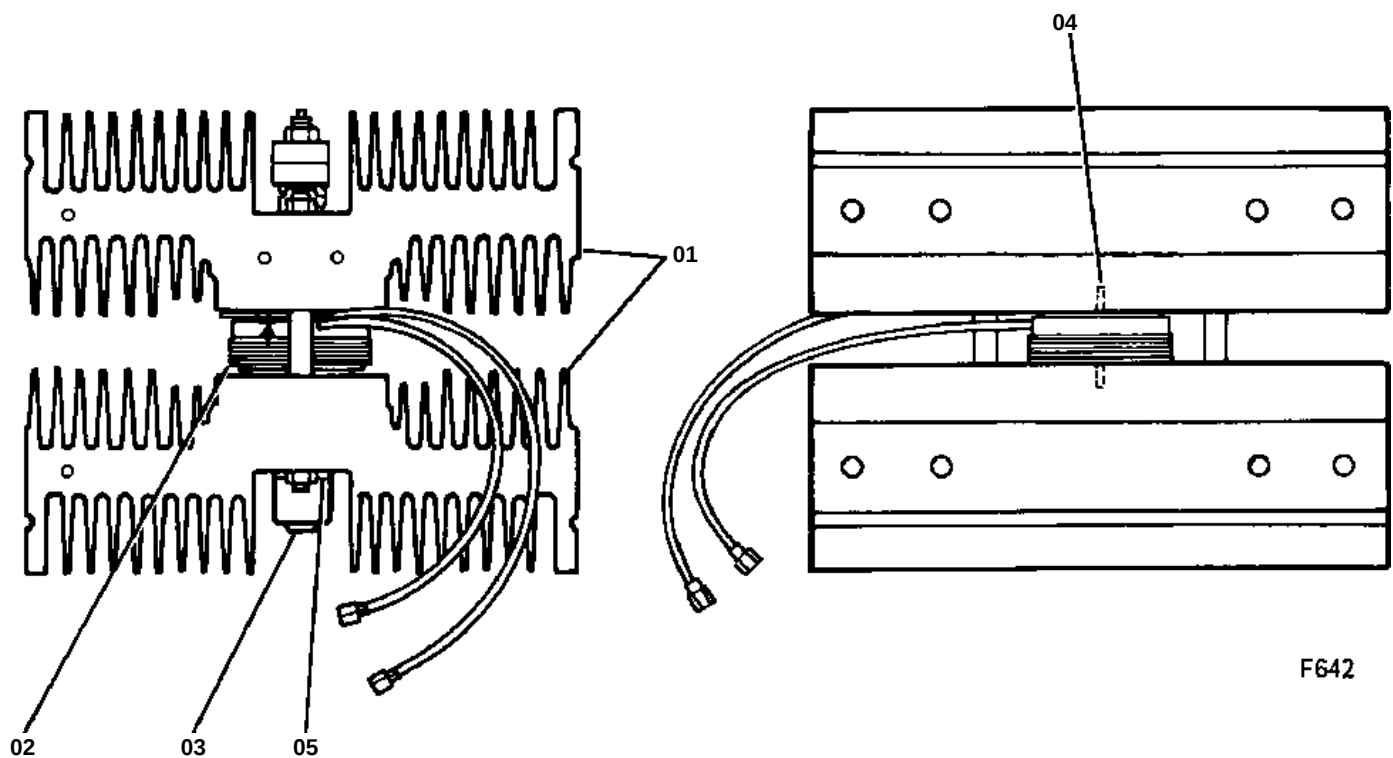
Machine
Serial Number: **4184**

HEAT SINK---POLARITY OPPOSITE OF SHOWN

[illegible]



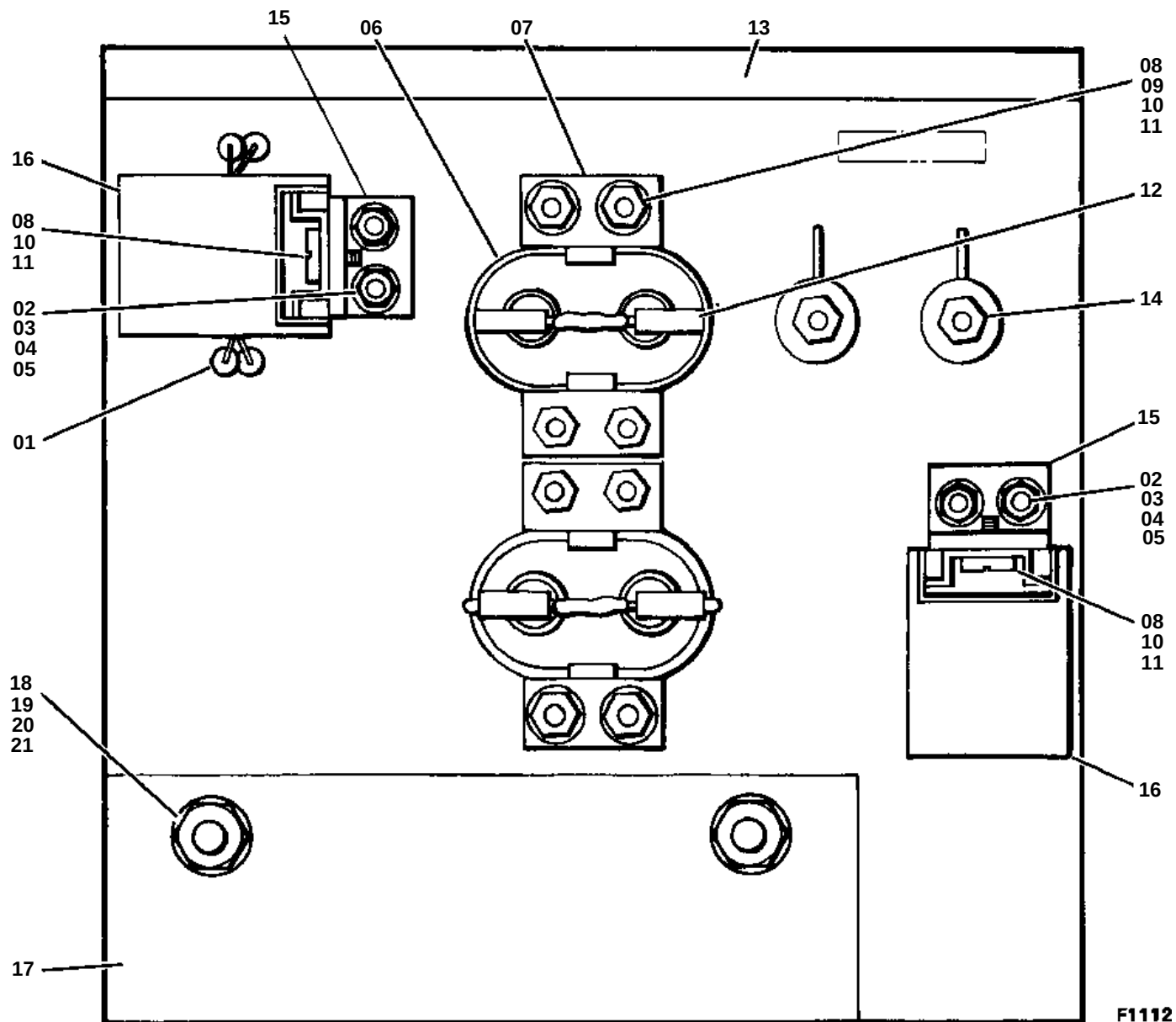
HEAT SINK---POLARITY AS SHOWN



HEAT SINK---POLARITY AS SHOWN

REF	PART NO.	DESCRIPTION	QTY
	979E307F9	HEAT SINK---POLARITY AS SHOWN	
01	79U2157D3	· HEATSINK	2
02	75Z727D13	· THYRISTOR	1
03	979E344-13	· CLAMP, Thyristor	1
04	19Z8D45	· PIN, Spring	2
05		NOT USED	
	18Z3482D1	· TUBE, Thyristor Wire Insulation (Not Shown)	1

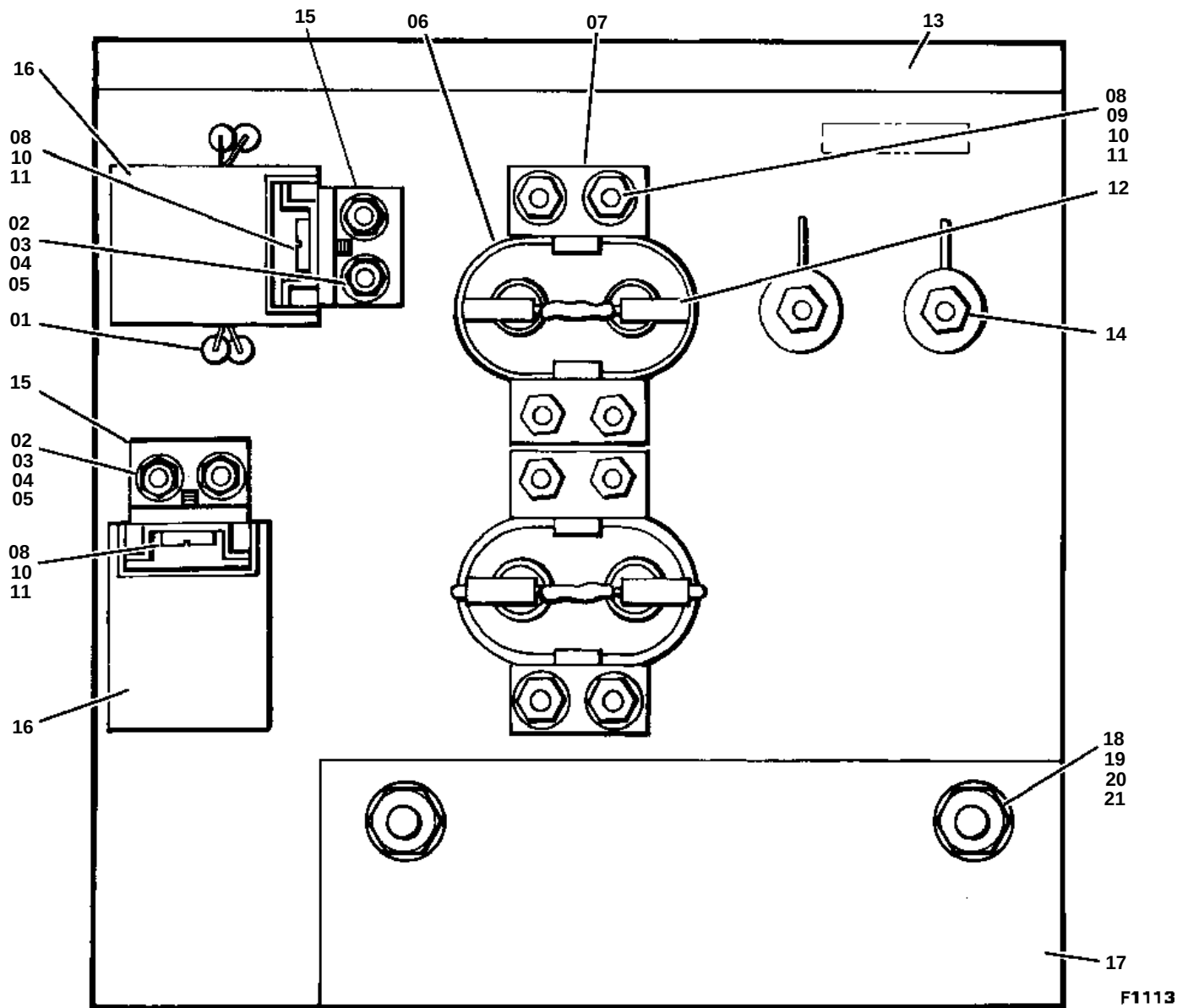
DV/DT SUB ASSEMBLY



DV/DT SUB ASSEMBLY

[illegible]

DV/DT SUB ASSEMBLY

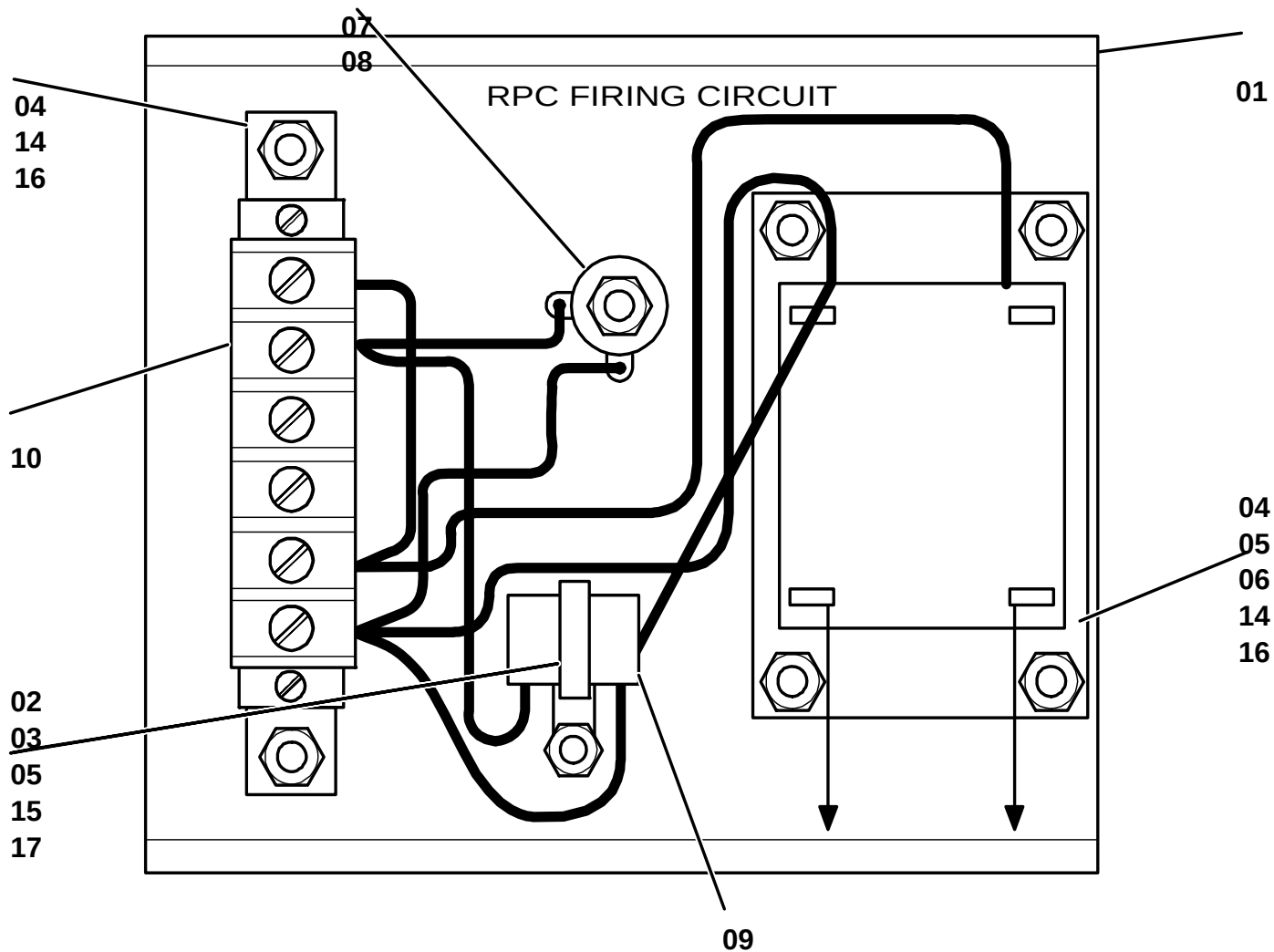


F1113

DV/DT SUB ASSEMBLY

[illegible]

MODULE, RPC FIRING CIRCUIT



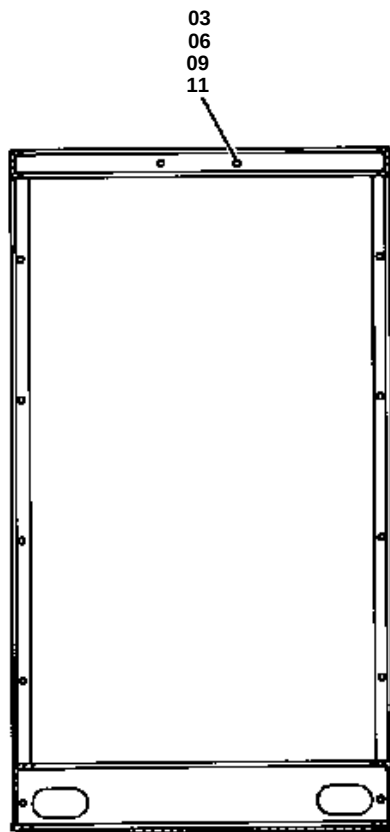
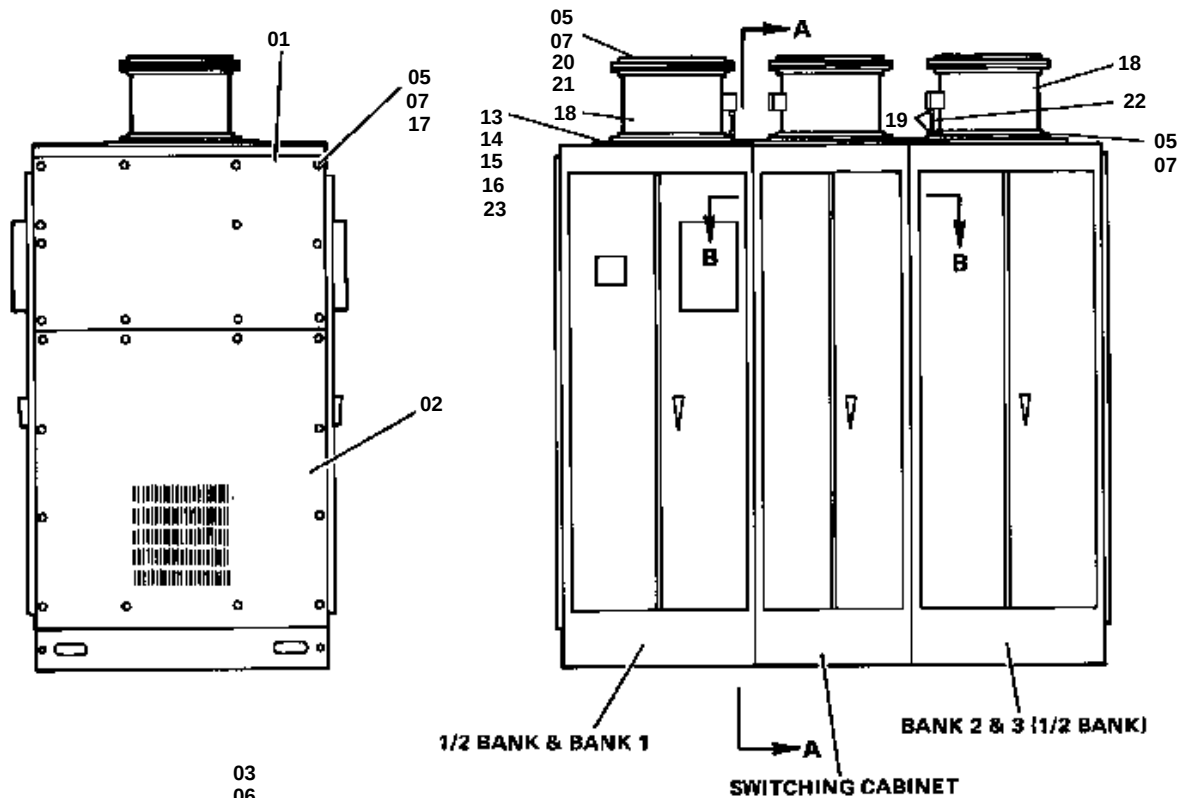
F6126

MODULE, RPC FIRING CIRCUIT

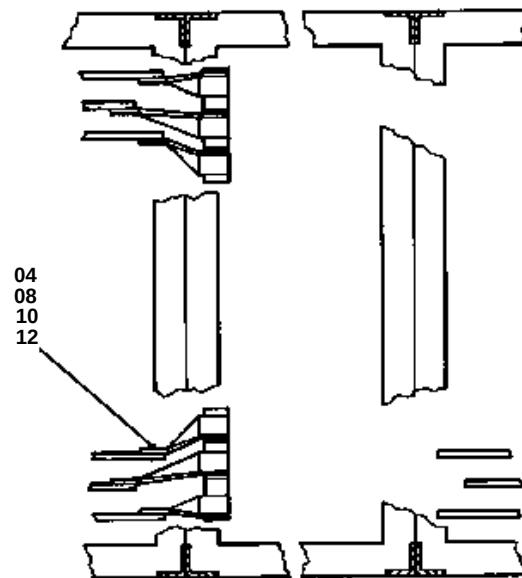
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INSTALLATION, RPC CABINET



SECTION A-A



SECTION B-B

CABINET INTERCONNECT OF BUS BARS
LEADING TO CIRCUIT BREAKERS

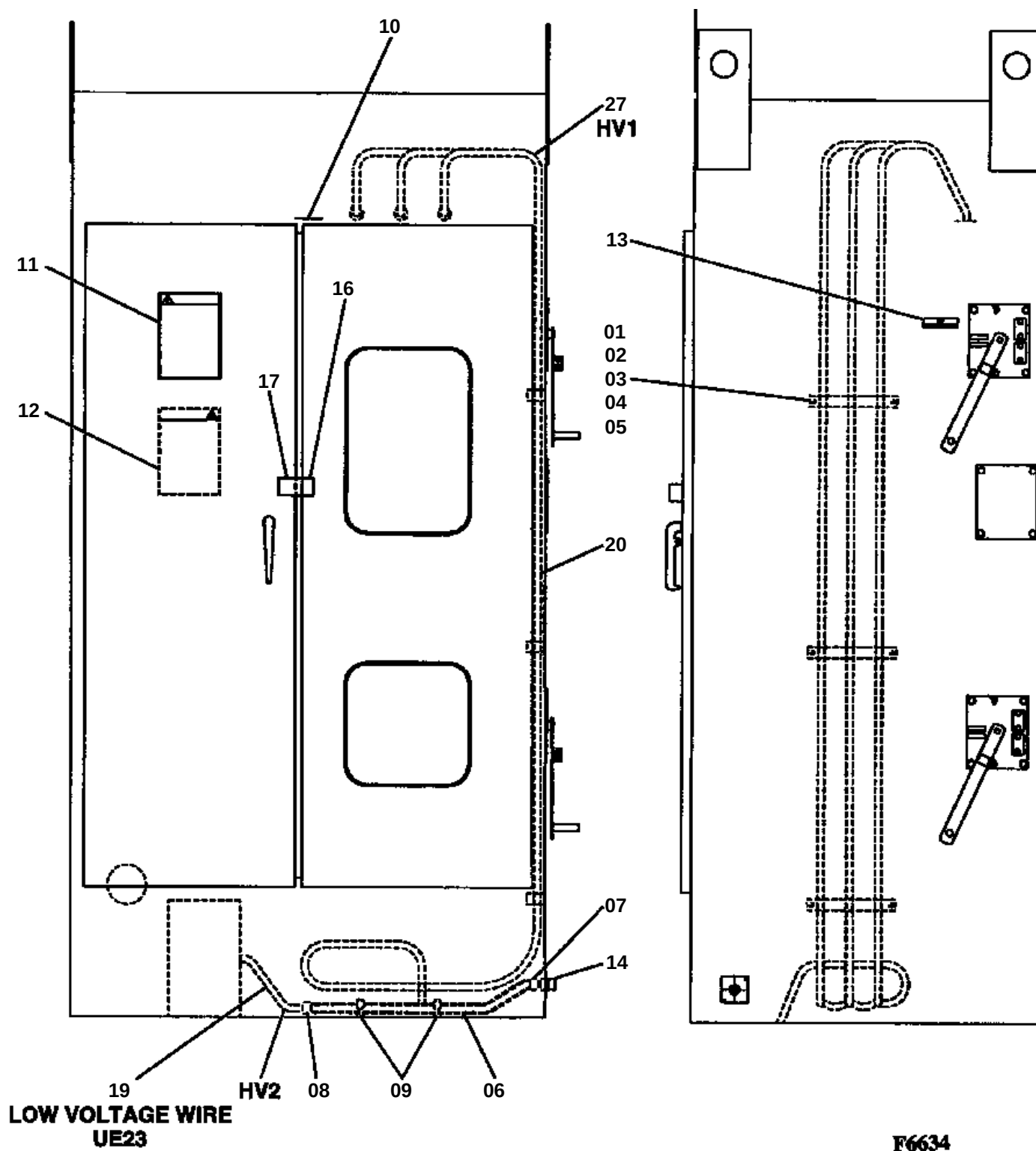
F1908B

INSTALLATION, RPC CABINET

REF	PART NO.	DESCRIPTION	QTY	PAGE
--	100N3138D2F2	INSTALLATION, RPC CABINET		
01	R20611D1	· COVER, Side, Non-louvered (Not as shown)	2	
02	R20612D1	· COVER, Side, Louvered (Not as shown)	2	
03	20Q260D403	· SCREW, Hex Hd Cap 5/8-11UNC x 1-3/4 in	24	
04	20Q260D263	· SCREW, Hex Hd Cap 3/8-16UNC x 2 in	24	
05	20Q260D258	· SCREW, Hex Hd Cap 3/8-16UNC x 1 in	68	
06	3616V013	· WASHER, Lock 5/8 in	24	
07	3616V009	· WASHER, Lock 3/8 in	56	
08	17Z286D91	· SPRING, Disc 3/8 in	96	
09	3632V008	· WASHER, Plain 5/8 in	48	
10	3631V007	· WASHER, Plain 3/8 in	60	
11	20Q270D40	· NUT, Hex 5/8-11UNC	24	
12	20H1617D44	· NUT, Hex, Self-locking 3/8-16UNC	24	
13	20Q260D192	· SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	12	
14	3616V007	· WASHER, Lock 1/4 in	12	
15	3631V005	· WASHER, Plain 1/4 in	12	
16	20Q270D16	· NUT, Hex 1/4-20UNC	12	
17	3632V004	· WASHER, Plain 3/8 in	44	
18	49Q8	· FAN, Cabinet	2	14-2
19	79Z878D2	· CONNECTOR, Straight	4	
20	20Q270D24	· NUT, Hex 3/8-16UNC	24	
21	14F4711	· GUARD, Fan	2	
22	304A13180	· CONDUIT, 3/4 in	AR	
23	R26526D1	· PLATE, Mounting - Fan	2	



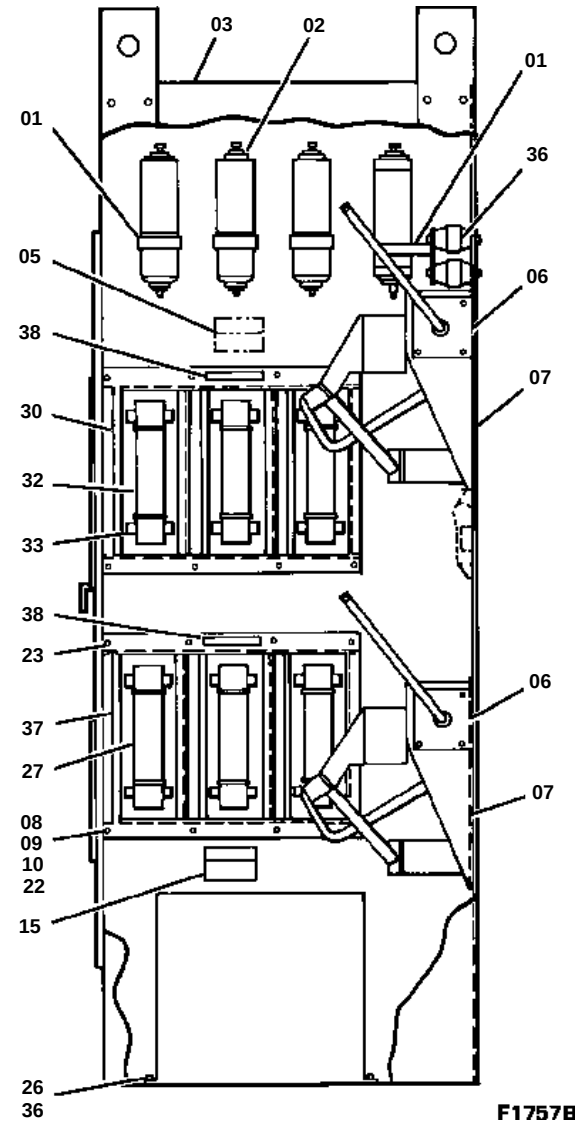
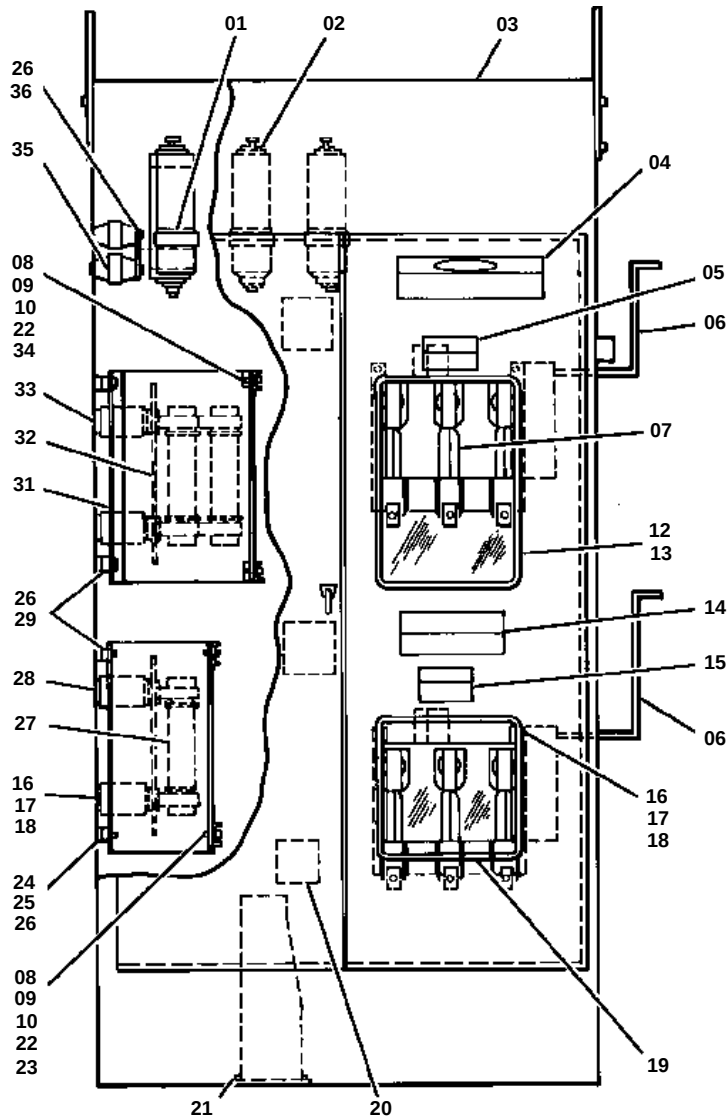
MODULE, HIGH VOLTAGE CABINET



MODULE, HIGH VOLTAGE CABINET

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R7799F11	MODULE, HIGH VOLTAGE CABINET		
01	100J6168F10	• CABINET, High Voltage	1	14-28
02	20Q260D261	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/2 in	8	
03	3631V007	• WASHER, 3/8 in	8	
04	3616V009	• WASHER, Lock 3/8 in	8	
05	20Q270D24	• NUT, Hex 3/8-16UNC	8	
06	030413180	• CONDUIT, Flex 3/4 x 48 in lg	AR	
07	0916V011	• CONNECTOR, Flex 3/4 x 45 in	1	
08	79Z5584D3	• FERRULES, 3/4 in	1	
09	0910V003	• CONDUIT, Strap 3/4 in	2	
10	32Q590D5	• DECAL, High Voltage Cabinet	1	
11	32Q1807	• SIGN, Warning High Votage Switch	1	
12	32Q1754	• SIGN, Danger Hazardous Voltage	1	
13	32Q592D4	• DECAL, Air Disconnect Switch	1	
14	87Z81D2	• BUSHING, End 3/4 in	1	
15	79U2522D60	• LUG, 4/0, W/1/2 in Stud	3	
16	18T10657	• SPACER, Latch Block	1	
17	18T11689	• SPACER, Main Body	1	
18		NOT USED		
19		NOT USED	AR	
20		NOT USED	AR	
21		NOT USED		
22		NOT USED		
23		NOT USED		
24	79R443D7	• CABLE CLAMPS	3	
25		NOT USED		
26		NOT USED		
27	R30930F15	• INSTALLATION, Cable	1	

CABINET, HIGH VOLTAGE



F1757B



CABINET, HIGH VOLTAGE

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6168F10	CABINET, HIGH VOLTAGE		
01	R6025D1	• HOLDING BRACKET, Arrester	6	
02	R6258D3	• ARRESTER, Lightning	6	
03	14A3499F1	• CABINET, High voltage	1	
04	32Q1805D51	• DECAL, 6600 Volts	1	
	32Q1780D4	• DECAL, Notice Volts	1	
05	32Q1772	• SIGN, Notice	2	
06	6Q455	• DIRECT DRIVE, Side handle assembly	2	
07	79Z4672	• SWITCH, High voltage load interrupter	2	
08	20Q260D193	• SCREW, Hex Hd Cap 1/4-20UNC x 7/8 in	17	
09	20Q270D16	• NUT, Hex 1/4-20UNC	17	
10	3616V007	• WASHER, Lock 1/4 in MPC	17	
11		NOT USED		
12	27Z385	• WINDOW CHANNEL, 11FT	AR	
13	27Q694D2	• GLASS, Safety	1	
14	32Q1770D1	• SIGN, Caution	1	
15	32Q1773	• SIGN, Notice	2	
16	20Q270D32	• NUT, Hex 1/2-13UNC	52	
17	3616V011	• WASHER, Lock 1/2 in MPC	52	
18	3631V009	• WASHER, Plain 1/2 in MPC	46	
19	27Q694D4	• GLASS, Safety	1	
20	32Q1805D39	• DECAL, 6600 Volts	3	
	32Q1780D3	• DECAL, Notice Volts	3	
21	79U2410	• CONTACTOR, High voltage	1	14-29
22	3631V005	• WASHER, Plain 1/4 in MPC	25	
23	79T381	• BRACE, Barrier	4	
24	20Q260D253	• SCREW, Hex Hd Cap 3/8-16UNC x 1/2 in	32	
25	3631V007	• WASHER, Plain 3/8 in MPC	28	
26	3616V009	• WASHER, Lock 3/8 in MPC	76	
27	79Z5645D4	• FUSE, High voltage auxiliary	3	
28	79Z3478	• FUSE, Support	3	
29	79Z1040D2	• STANDOFF/INSULATOR	16	
30	79F5055	• BARRIER	4	
31	16F9058	• BRACKET	4	
32	79Z4067D3	• FUSE, Main	3	
33	79Z2699	• SUPPORT, Fuse	3	
34	16F9057	• BRACKET	8	



Machine
Serial Number: **4184**

CABINET, HIGH VOLTAGE

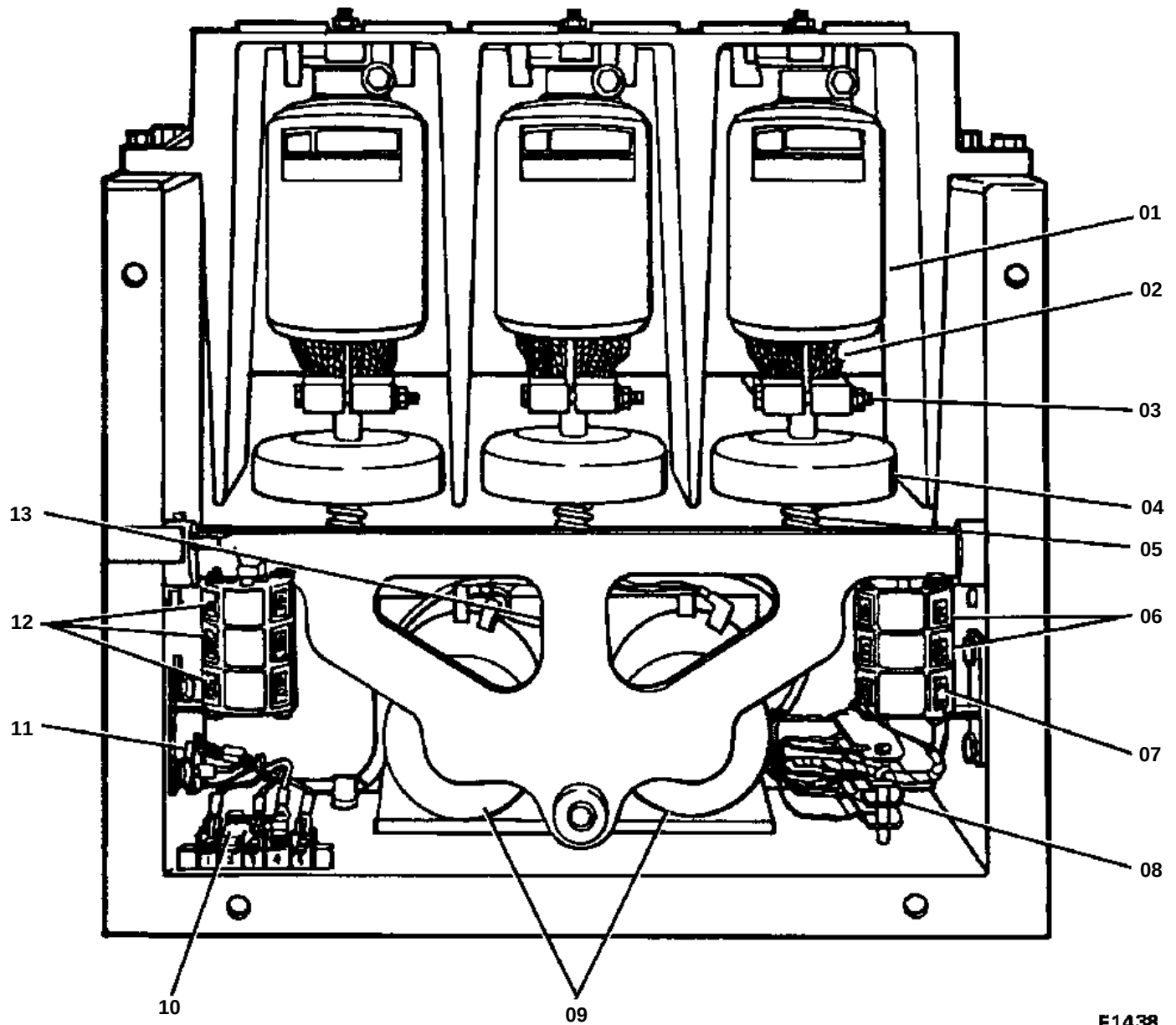
REF	PART NO.	DESCRIPTION	QTY	PAGE
35	79Z1040D4	• STANDOFF/INSULATOR	12	
36	20Q260D255	• SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	24	
37	79T380	• BARRIER, Fuse insulating	4	
38	32Z2033D6	• LABEL, Identification 3/4 x 2 lg.	2	

The Following Items Are Not Shown:

	20Q260D329	• SCREW, Hex Hd Cap 1/2-13 x 1-3/4	6	



CONTACTOR, HIGH VOLTAGE



F1438



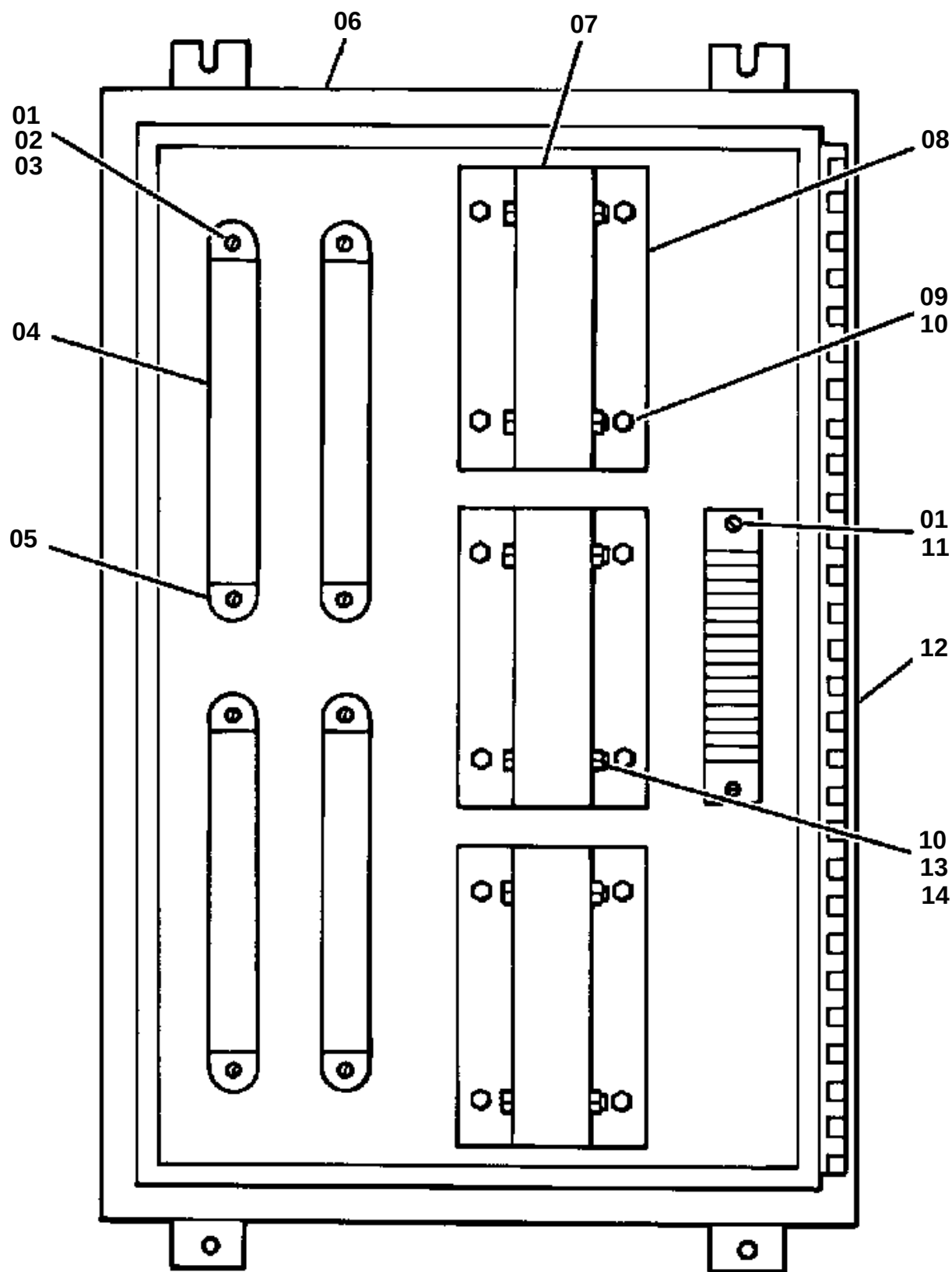
Machine
Serial Number: **4184**

CONTACTOR, HIGH VOLTAGE

REF	PART NO.	DESCRIPTION	QTY
	79U2410	CONTACTOR, HIGH VOLTAGE	
	1079Z2319	· INTERRUPTER ASSY., Main contact	3
01	1079Z2320	· · INTERRUPTER, Vacuum	1
02		· · STRAP, Current interchange - Flexible	1
03		· · CLAMP, Lower	1
04		· · INSULATOR, Movable	1
05	1017Z1459	· SPRING, Overtravel	3
	1079Z2318	· CONTACT ASSY., Normally closed	1
06	1079Z2315	· · CONTACT, Normally closed	2
07	1079Z2316	· · CONTACT, Normally closed - Control circuit	1
08	1080Z489	· RESISTOR, 100 Ohm	4
09	1075Z793	· COIL	2
10	1079Z2321	· FUSE	1
11	1075Z889	· RECTIFIER	1
	1079Z2317	· CONTACT ASSY., Normally open	1
12	1079Z2314	· · CONTACT, Normally open	3
13	80Q35D10	· VARISTOR, Coil suppression	1
14	1080Z490	· VARISTOR, Terminal	1
15	1084Z47	· CAPACITOR	1



CABINET, GROUND-FAULT



F1687



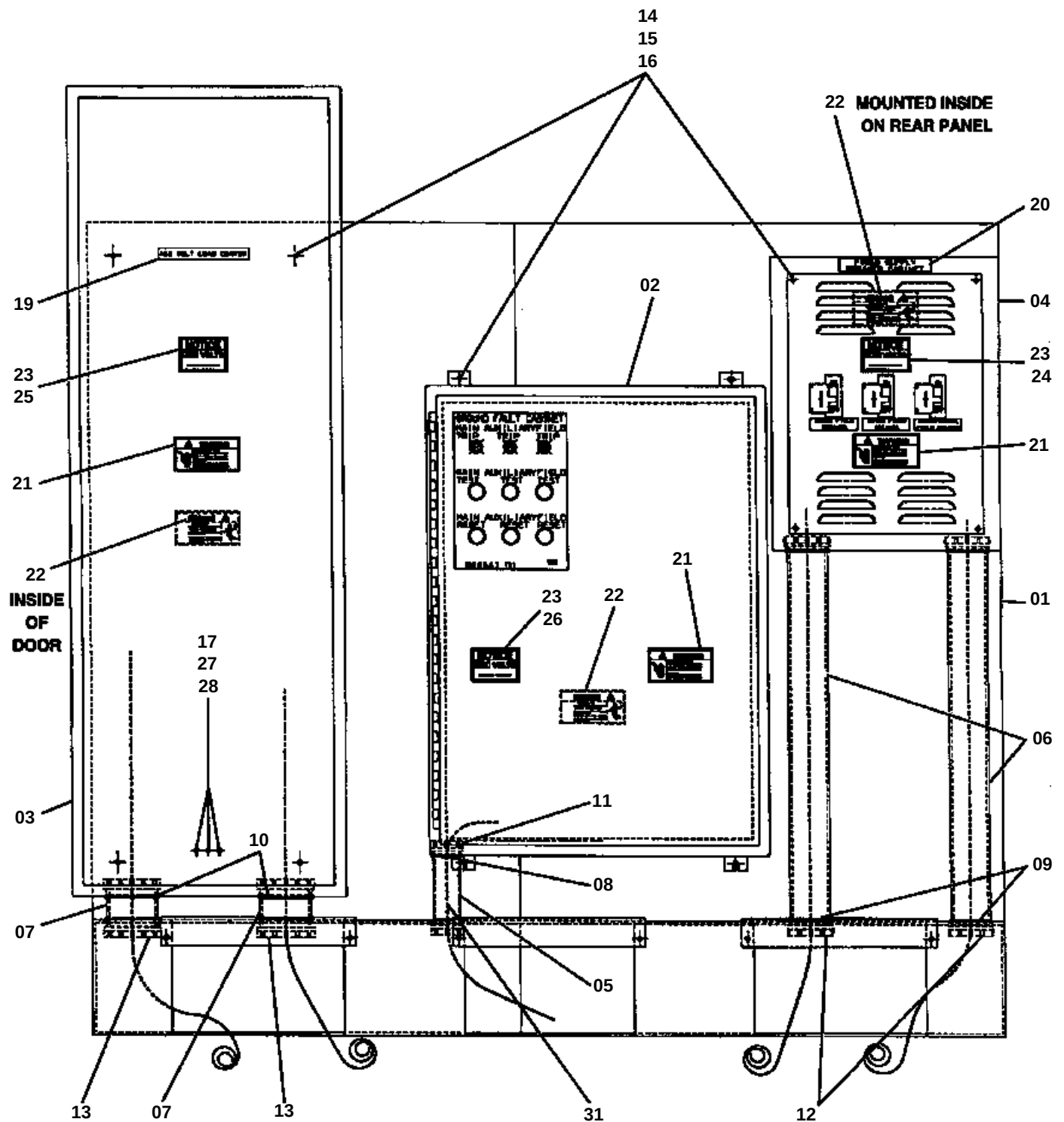
Machine
Serial Number: **4184**

CABINET, GROUND-FAULT

[illegible]



Module, Ground Fault/Field Breaker



F6579

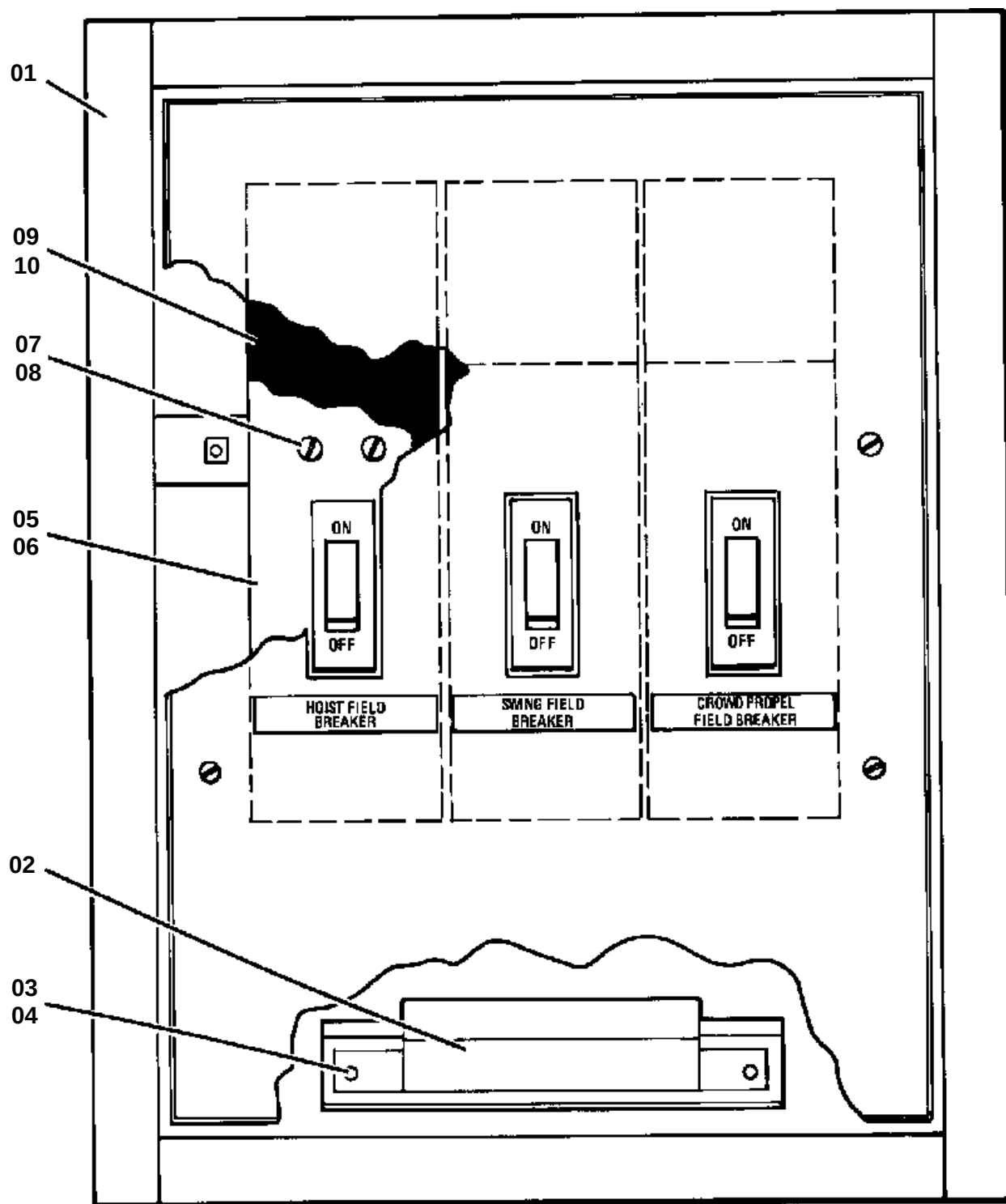


Module, Ground Fault/Field Breaker

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R30717F3	MODULE, GROUND FAULT/FIELD BREAKER		
01	R34093F1	• PANEL, Accessory	1	
02	R27928F1	• CABINET, Ground Fault	1	14-33
03	R29613D3	• PANELBOARD, 480 Volt	1	14-34
04	100A9084F1	• CABINET, Field Breaker	1	14-32
05	87N255D4	• CONDUIT, 1-1/2 x 18 in	1	
06	87N258D27	• CONDUIT, 3 x 35 in	2	
07		NOT USED		
08	0944V008	• NUT, Lock 1-1/2 in	4	
09	0944V008	• NUT, Lock 3 in	8	
10		NOT USED		
11	87Z81D5	• BUSHING, End 1-1/2 in	2	
12	87Z81D8	• BUSHING, End 3 in	4	
13		NOT USED		
14	20Q260D255	• SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	12	
15	3631V007	• WASHER, Plain 3/8 in	12	
16	3616V009	• WASHER, Lock 3/8 in	12	
17	2063V003	• NUT, Jam Hex Hd Brass 3/8-16UNC	6	
18		NOT USED		
19	32Q590D25	• SIGN, 460V Load Center	1	
20	32Q590D21	• DECAL, Field Field Supply Braker Cabinet	1	
21	32Q1809	• SIGN, Warning "Hazardous Voltage"	3	
22	32Q1810	• SIGN, Warning "Hazardous Voltage"	3	
23	32Q1780D3	• DECAL, Notice Voltage	3	
24	32Q1805D22	• LABEL, Identification Voltage 230	1	
25	32Q1805D26	• LABEL, Identification Voltage 460	1	
26	32Q1805D58	• LABEL, Identification Voltage 600	1	
27	3608V011	• WASHER, Flat Brass 3/8 in	3	
28	17Z286D9	• WASHER, Spring Disc 3/8 in	6	
29	27Z753D1	• TRIM, Quickedge 3/8 x 5/8 x 20 ft 0 in (Not Shown)	20	
30		NOT USED		
31	R30930F7	• CABLE INSTALLATION, Board Module	1	



PANEL, FIELD SUPPLY BREAKER



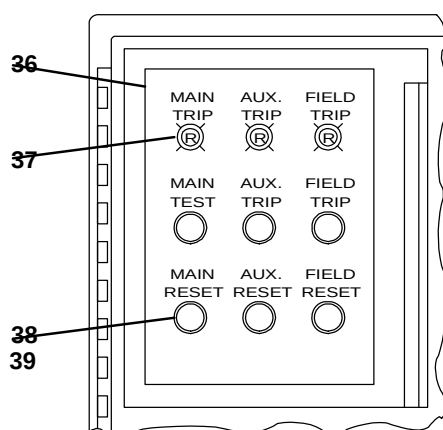
F1652



Machine
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[illegible]

01 06 27 28 29 20 27 28 18 09 31 32 33 34 11 22 24 25 21 19 16 27 28 29 02 03 30 32 33 04 05 30 32 33 07 08 23 24 25 30 32 33 10 12 22 24 25 13 14 22 26 15 22 24 25 17 18



CABINET DOOR ASSEMBLY

F6578A



CABINET, GROUND FAULT

REF	PART NO.	DESCRIPTION	QTY
--	R27928F1	CABINET, GROUND FAULT	
01	R27964D1	• ENCLOSURE	1
02	16Z316D6	• BRACKET, Resistor Mounting	4
03	80Z31D27	• RESISTOR, 33 Ohm, 300W	12
04	80Z139D2	• RESISTOR, 100 Ohm, 160W+5%	1
05	16Z316D4	• BRACKET, Resistor Mounting	1
06	80Z159D16	• RESISTOR, 50 Ohm, 25W	2
07		NOT USED	
08	R21467D1	• RELAY, Ground Fault	3
09	79Q1676D2	• RAIL, Mounting (Din)	AR
10	R21468D1	• TRANSFORMER, Current	3
11	R17976D1	• RELAY, Solid State, Ground Fault	1
12	75Z1091D1	• RECTIFIER	1
13	R6085D1	• CAPACITOR 40uF	6
14	84Z132D4	• BRACKET, Mounting Cap	6
15	R6086D1	• CHOKE, Filter	5
16	79H2159D60	• TERMINAL BLOCK ASSEMBLY	1
17	80Z1024D94	• RESISTOR 750 Ohm, 10W	1
18	79Z566D5	• DUCT, Wire 2 x 3 x 24 in lg	AR
19	79Z566D5	• DUCT, Wire 2 x 3 x 21 in lg	AR
20	R40240D1	• SHIELD, Heat	1
21	79Z566D2	• DUCT, Wire 1 x 3 x 22 in lg	AR
22	0862V079	• SCREW, Pan Hd Mach 5/32-32UNC x 5/8 in lg	40
23		NOT USED	
24	3616V004	• WASHER, Lock 5/32 in	22
25	3631V003	• WASHER, Plain Plated 5/32 in	22
26	18Z2936D4	• WASHER, Lock 5/32 in	18
27	0862V098	• SCREW, Pan Head Mach 3/16-24UNC x 5/8 in lg	12
28	3616V005	• WASHER, Lock 3/16 in	18
29	3631V004	• WASHER, Plain 3/16 in	12
30	20Q260D192	• SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in lg	16
31		NOT USED	
32	3616V007	• WASHER, Lock 1/4 in	24
33	3632V002	• WASHER, Plain 1/4 in	16
34	20Q270D16	• NUT, Hex 1/4-20UNC	18
35		NOT USED	
36	R26667D1	• NAMEPLATE, Ground Fault Cab	1



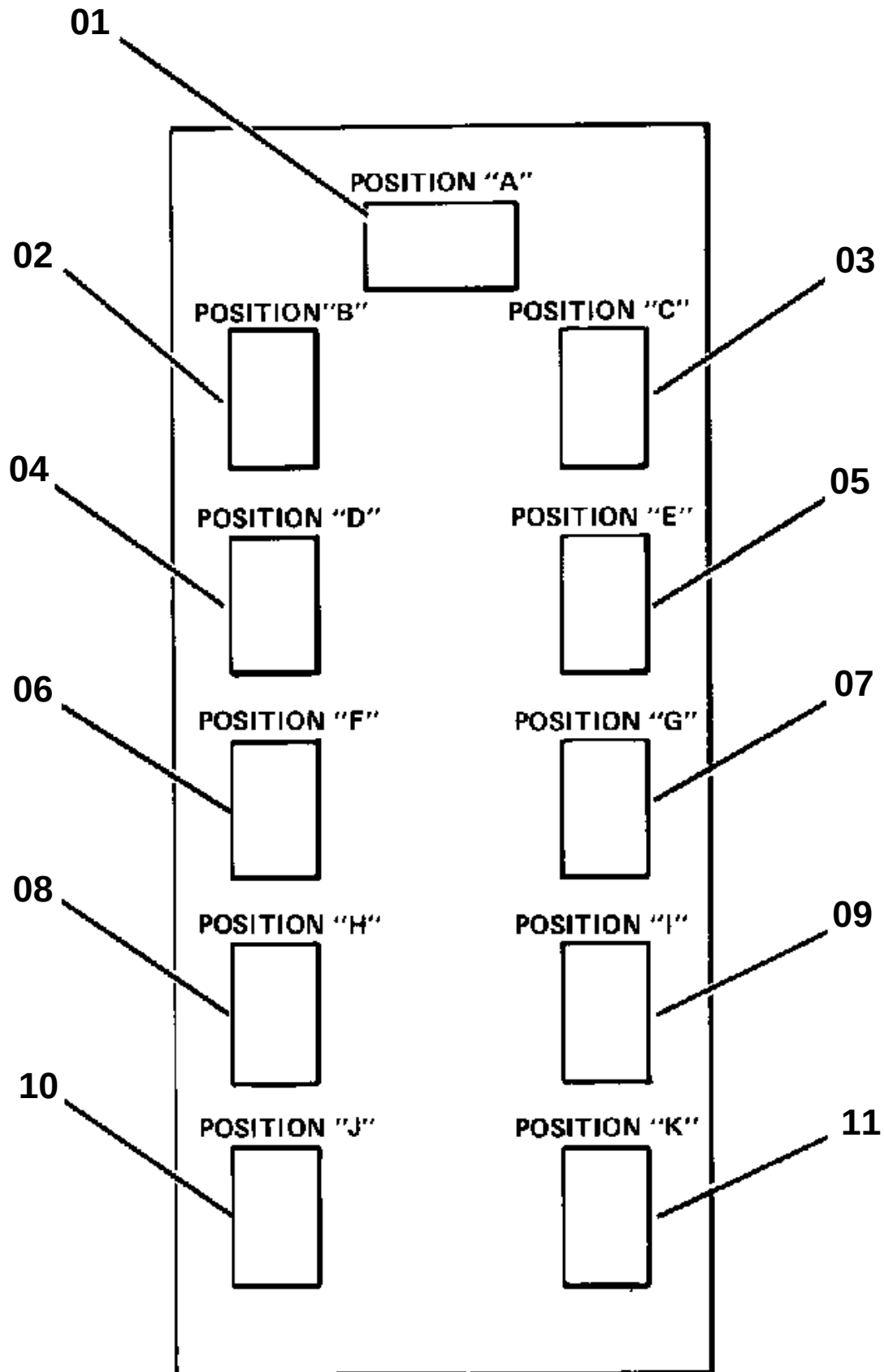
Machine
Serial Number: **4184**

CABINET, GROUND FAULT

REF	PART NO.	DESCRIPTION	QTY
37	56Q23D43	· LIGHT, Indicator Red	3
--	56Z448D7	· · BULB (Not shown)	1
	56Z431D1	· · LENS, Red (Not shown)	1
38	479Z10D16	· PUSHBUTTON, Flush Black	6
39	45Z364D4	· BOOT, Pushbutton	6



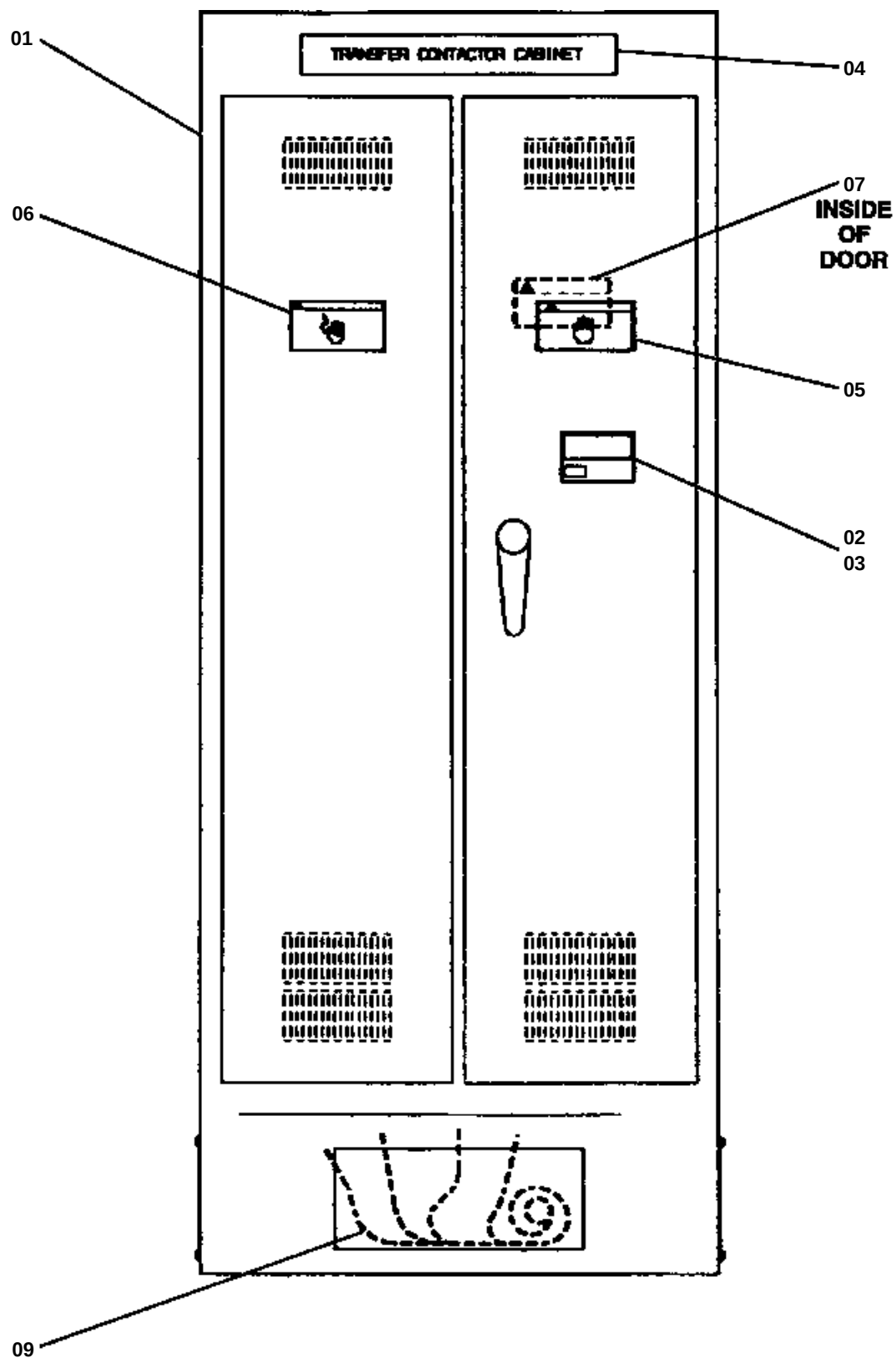
LOAD CENTER



LOAD CENTER

REF	PART NO.	DESCRIPTION	QTY
	R29613D3	LOAD CENTER	
01	1079Z7690	· BREAKER, Circuit, 3 Pole/350A---Main	1
02	79Q1137D2	· BREAKER, Circuit, 3 Pole/20A---Heater, Operators	1
03	79Q1137D4	· BREAKER, Circuit, 3 Pole/30A---Air Conditioner	1
04	79Q1137D6	· BREAKER, Circuit, 3 Pole/40A---Heater Receptacle	1
05	79Q1137D6	· BREAKER, Circuit, 3 Pole/40A---Air Compressor	1
06	79Q1137D28	· BREAKER, Circuit, w/Shunt Trip, 3 Pole/60A---Welder Receptacle	1
07	79Q1137D9	· BREAKER, Circuit, 3 Pole/60A---Mach House Heater #1	1
08	79Q1137D4	· BREAKER, Circuit, 3 Pole/30A---Air Conditioner	1
09	79Q1137D9	· BREAKER, Circuit, 3 Pole/60A---Mach House Heater #2	1
10	79Q1137D2	· BREAKER, Circuit, 3 Pole/20A---Rope Tugger	1
11		NOT USED	

MODULE, TRANSFER CABINET



F6576



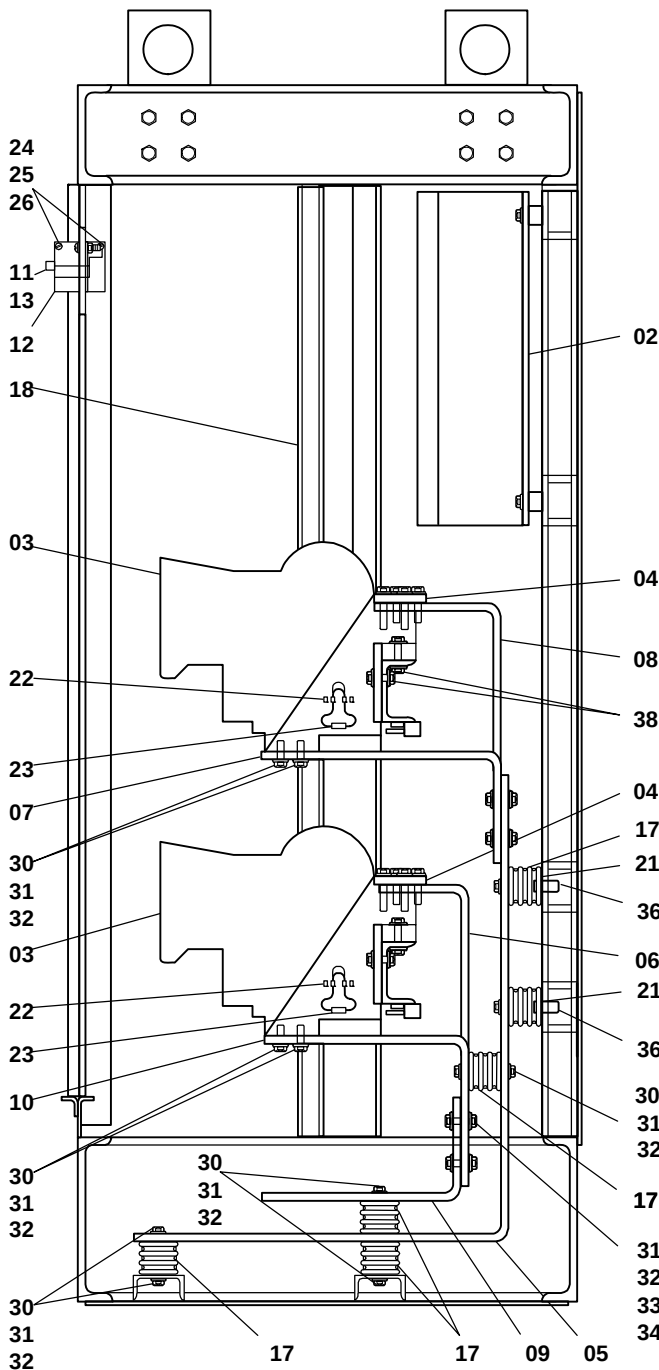
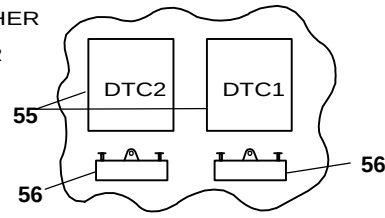
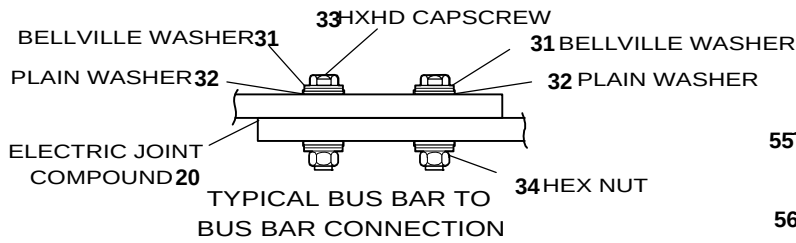
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Serial Number: **4184**

MODULE, TRANSFER CABINET

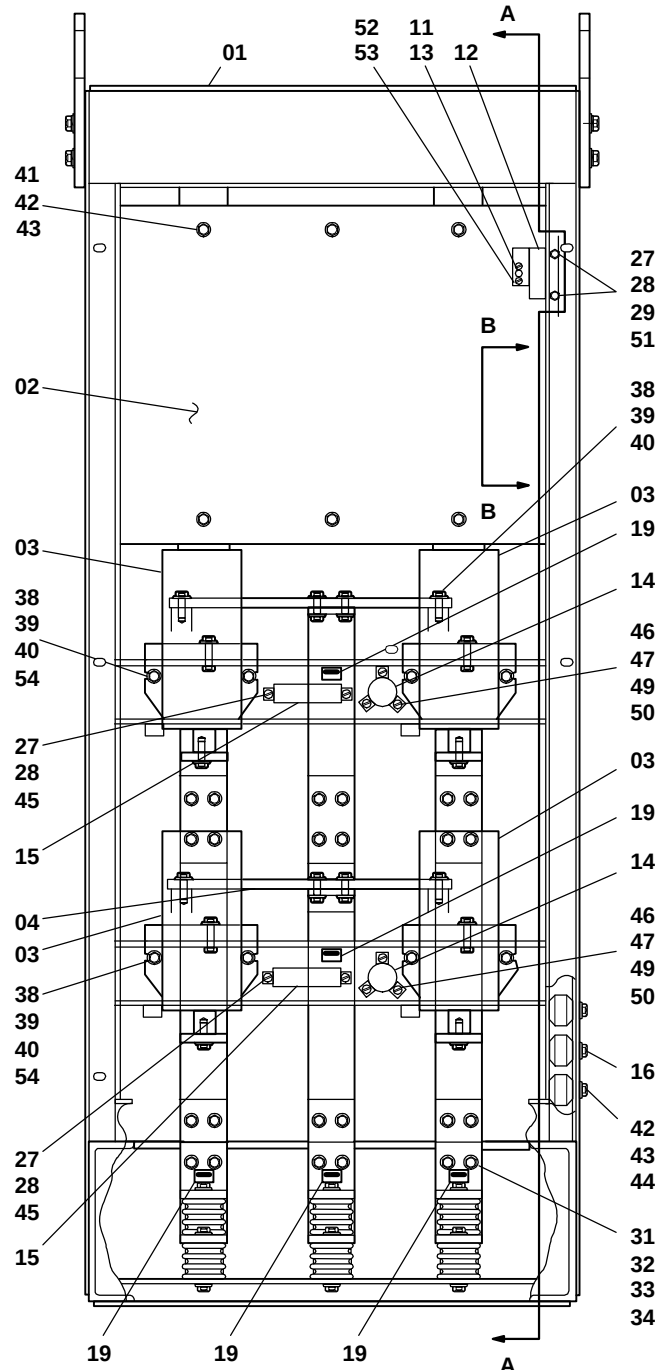
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CABINET, TRANSFER CONTACTOR



SECTION A - A



FRONT VIEW

WITH DOORS REMOVED

F5765A



CABINET, TRANSFER CONTACTOR

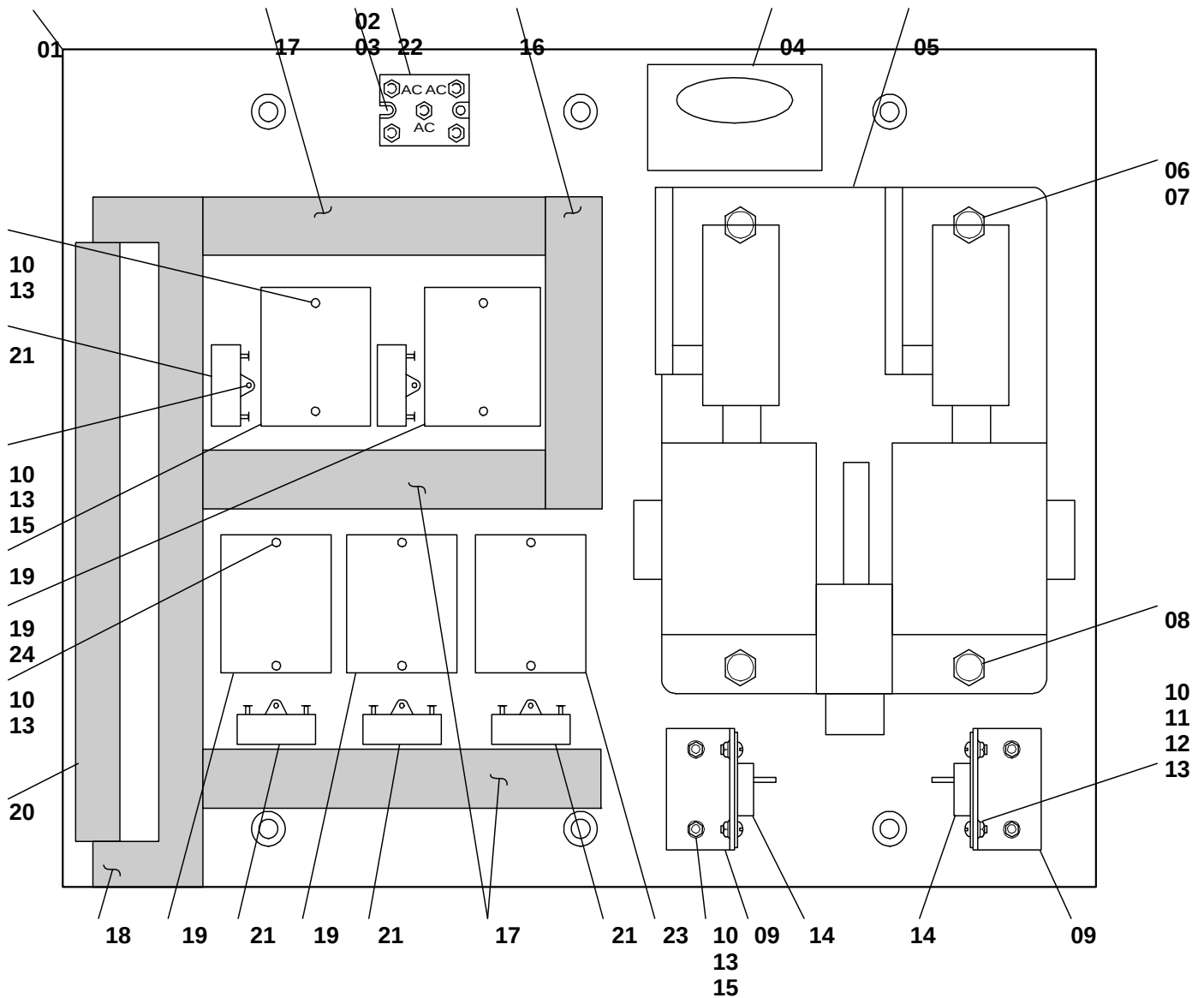
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R11700F2	CABINET, TRANSFER CONTACTOR		
01	14A2401F2	• CABINET	1	
02	R21914F2	• PANEL, Reversing Contactor	1	14-37
03	R5877D1	• CONTACTOR, Non-Polarized D.C.	4	14-41
04	R6802D1	• BAR, Bus	2	
05	79E5487D1	• BAR, Bus	3	
06	R6886D1	• BAR, Bus	1	
07	R6850D1	• BAR, Bus	2	
08	R6836D1	• BAR, Bus	1	
09	79E5487D4	• BAR, Bus	3	
10	R6887D1	• BAR, Bus	2	
11	79Z1803D3	• INTERLOCK, Door	1	
12	16H5332	• BRACKET, Door Interlock	1	
13	79F4213	• INSULATOR, Door interlock	1	
14	84Q20D5	• CAPACITOR, 1400mF	2	
15	80Z1004D11	• RESISTOR, 70W, 250 ohm	2	
16	79Z2705D7	• STANDOFF, 2 in	3	
17	79Z2361D1	• STANDOFF, 2-1/8 in	18	
18	79Z566D7	• DUCT, Wire 1-1/2 x 2 x 60 in	AR	
19	32Z1581D8	• DECAL, Danger 575V	5	
20	21Z808	• COMPOUND, Electrical Joint	AR	
21	21Z729D3	• ADHESIVE	AR	
22	79Z1177D3	• LUG	4	
23	75Z592D10	• DIODE	2	
24	0862V061	• SCREW, Pan Hd Mach #6-32UNC x 1/2 in	2	
25	3616V003	• WASHER, Lock #6	2	
26	3631V002	• WASHER, Plain #6	2	
27	3631V004	• WASHER, Plain #10	10	
28	3616V005	• WASHER, Lock #10	14	
29	0860V080	• SCREW, Rd Hd Mach #10-24UNC x 1 in	10	
30	0624V039	• SCREW, Hex Hd Cap 3/8-16UNC x 1 in	34	
31	17Z286D9	• WASHER, Belleville 3/8 in	164	
32	3609V008	• WASHER, Plain 3/8 in - Brass	82	
33	0624V042	• SCREW, Hex Hd Cap 3/8-16UNC x 1-3/4 in	48	
34	2047V003	• NUT, Hex 3/8-16UNC	32	
35	20T7042D1	• STUD, 3/8-16UNC x 1-5/8 in	3	
36	20H1159	• STUD, 3/8-16UNC x 1 in	6	

CABINET, TRANSFER CONTACTOR

REF	PART NO.	DESCRIPTION	QTY	PAGE
37		NOT USED		
38	20Q260D263	• SCREW, Hex Hd Cap 3/8-16UNC x 2 in	12	
39	3631V007	• WASHER, Plain 3/8 in	24	
40	3616V009	• WASHER, Lock 3/8 in	12	
41	20Q260D261	• SCREW, Hex Hd Cap 3/8-16UNC x 1-1/2 in	6	
42	3631V007	• WASHER, Plain 3/8 in	9	
43	3616V009	• WASHER, Lock 3/8 in	9	
44	20Q260D234	• SCREW, Hex Hd Cap 5/16-18UNC x 2-3/4 in	3	
45	0862V102	• SCREW, Hex Pan Hd #10-24UNC x 1-1/8 in	4	
46	0862V075	• SCREW, Hex Pan Hd #8-32UNC x 3/8 in	6	
47	3616V004	• WASHER, Lock #8	6	
48		NOT USED		
49	2136V004	• NUT, Hex #2-32UNC PS 560	6	
50	3631V003	• WASHER, Plain #8	6	
51	2136V005	• NUT, Hex #2-24UNC PS 560	2	
52	0861V030	• SCREW, Rd Hd Mach #10-32UNF x 3/8 in	2	
53	18Z733D7	• WASHER, Lock - Internal Tooth #10	2	
54	20Q270D24	• NUT, Hex 3/8-16UNC	12	
55	479U206D11	• CONTACTOR, Dipper Trip	2	14-42
56	79Z2475D7	• RCV SURGE SUPPRESSORS	2	



PANEL, REVERSING CONTACTOR



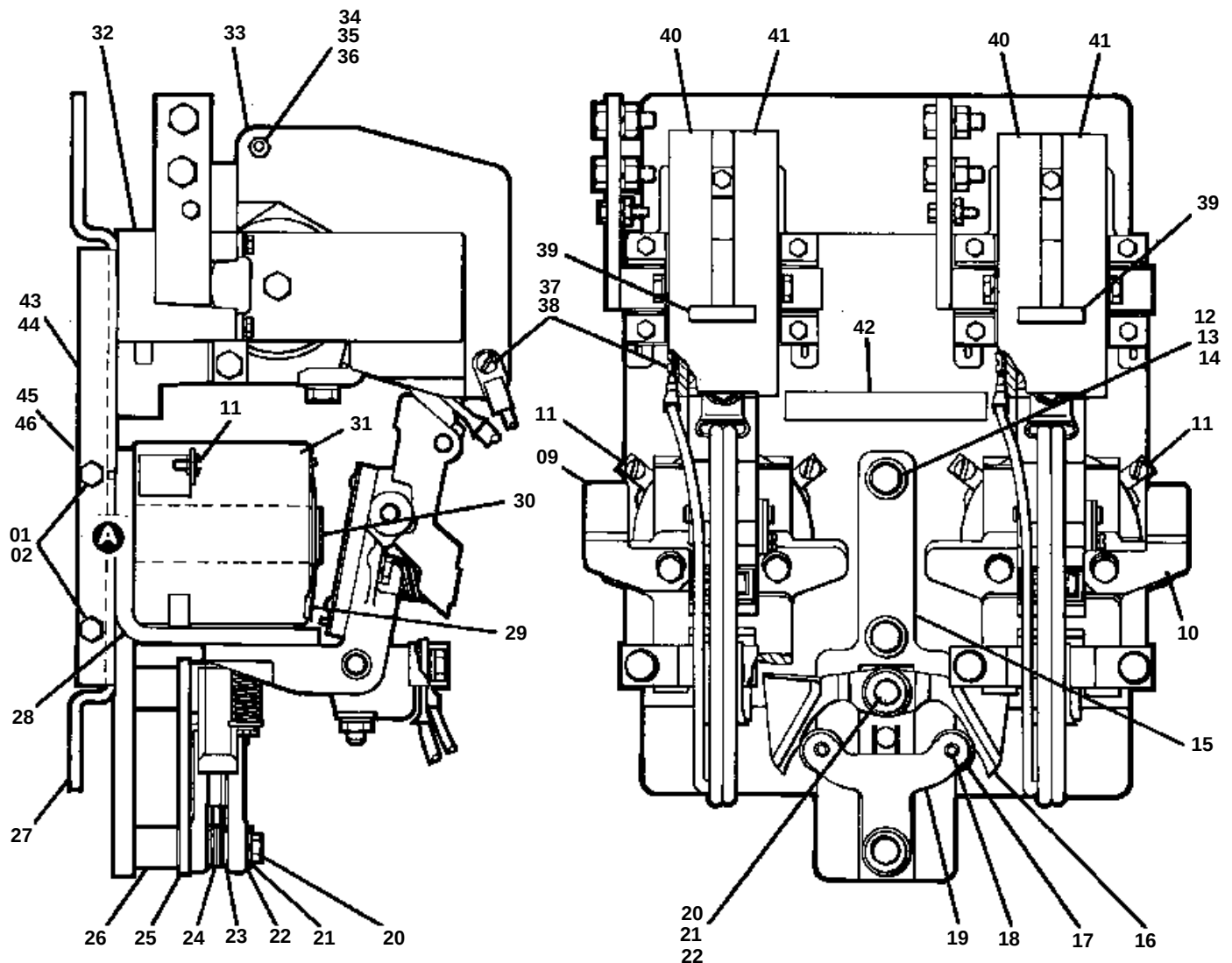
F1789B

PANEL, REVERSING CONTACTOR

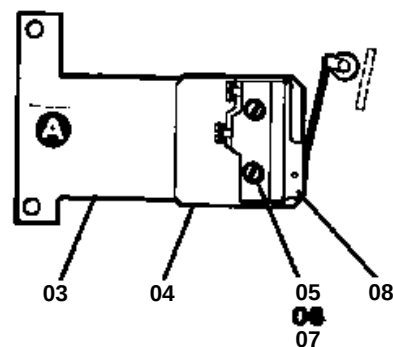
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R21914F2	PANEL, REVERSING CONTACTOR		
01	R21914D1	· PANEL	1	
02	0862V077	· SCREW, Pan Hd Mach, 8-32 x 1/2	8	
03	3616V004	· LOCKWASHER, #8,	8	
04	32Z1581D7	· DECAL, Danger 575 V	1	
05	979E351F1	· CONTACTOR, Reverser	1	14-38
06	20Q260D256	· SCREW, Lg Hex Cap, 3/8-16 x 3/4	4	
07	3616V009	· LOCKWASHER, 3/8,	4	
08	20Z972D3	· WELDNUT, 3/8-16	4	
09	16F7525	· BRACKET, Varistor Mounting	2	
10	3616V005	· LOCKWASHER, #10	12	
11	0862V099	· SCREW, Pan Hd Mach, 10-24 x 3/4	4	
12	2136V005	· NUT, Hex, 10-24,	4	
13	3631V004	· WASHER, Flat, #10	10	
14	80Z959D4	· VARISTOR	2	
15	0862V096	· SCREW, Pan Hd Mach, 10-24 x 1/2	8	
16	79Z566D3	· DUCT, Wire, 1-1/2 x 3 x 7-7/8	1	
17	79Z566D3	· DUCT, Wire, 1-1/2 x 3 x 8-3/4	2	
18	79Z566D4	· DUCT, Wire, 3 x 3 x 17-3/8	1	
19	79Z3208D1	· RELAY, 600 VAC, 4 Pole	4	
20	79H2159D40	· BLOCK, Terminal	1	
21	79Z2475D7	· NETWORK, R C Filter & Varistor	5	
22	75Q284D6	· RECTIFIER, 100 ADC 1000V	1	
23	79Z3208D4	· RELAY	1	
24		NOT USED		
25		NOT USED		
26	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 10-1/4	1	



CONTACTOR, REVERSING



ELECTRICAL INTERLOCK



F1791



CONTACTOR, REVERSING

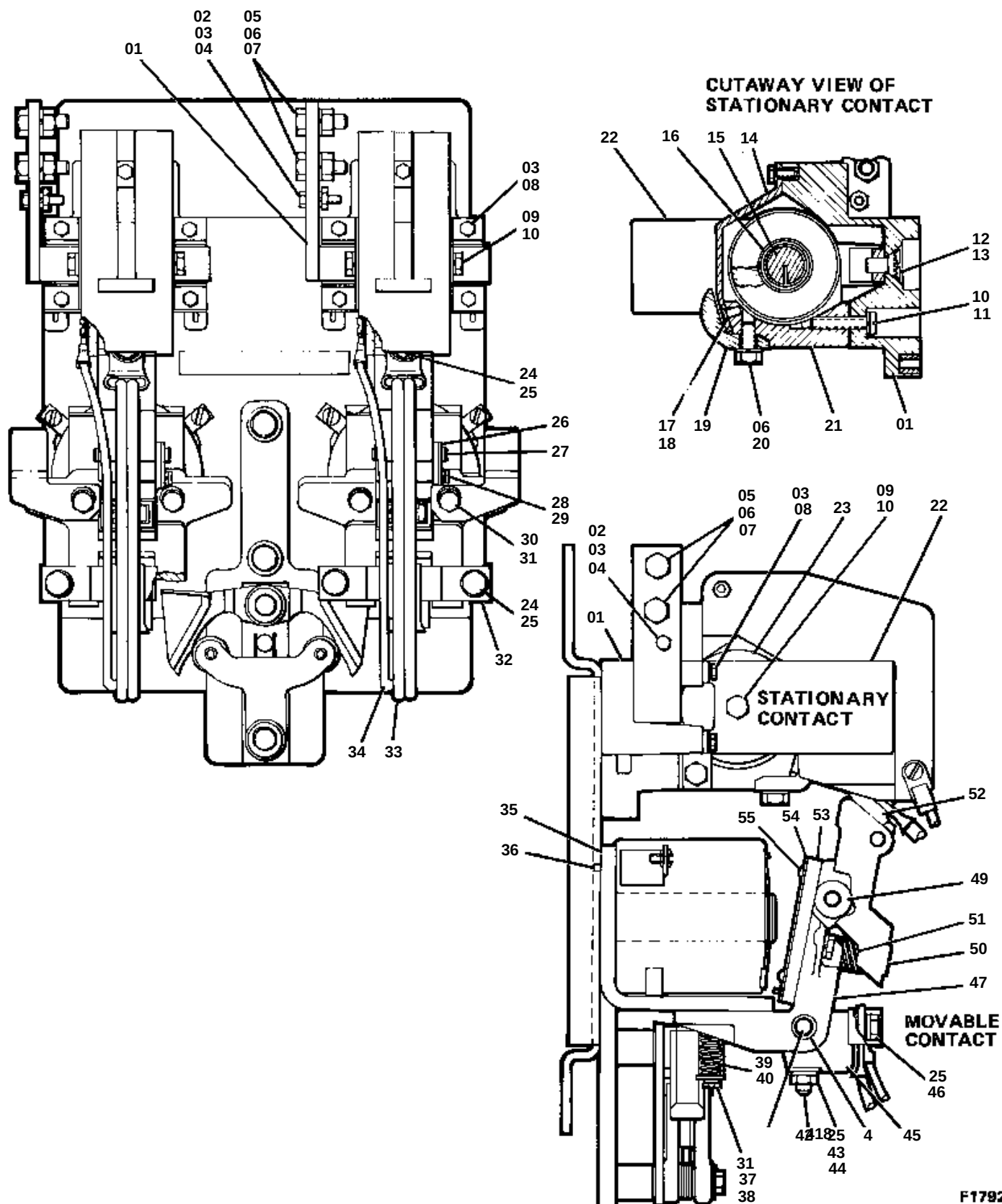
REF	PART NO.	DESCRIPTION	QTY	PAGE
	979E351F1	CONTACTOR, REVERSING		
01	20Q260D191	• SCREW, Hex hd cap 1/4-20UNC X 5/8in.	4	
02	3616V007	• WASHER, Lock 1/4in.	4	
	979E334F1	• INTERLOCK, Crowd Field - L.H. Mounted (Not Shown)	1	
	979E334F2	• INTERLOCK, Propel Field - R.H. Mounted (Not Shown)	1	
03	79F4624	• • BRACKET, Switch	1	
04	79Z3213	• • INSULATOR, Switch	1	
05	0860V044	• • SCREW, Rd hd mach #6-32UNC X 1in.	2	
06	3616V003	• • WASHER, Lock #6	2	
07	3608V003	• • WASHER, Brass Flat #6	2	
08	79Z3212	• • SWITCH, Interlock	1	
09	6F1195D1	• ACTIVATOR, Electrical Interlock - L.H.	1	
10	6F1195D2	• ACTIVATOR, Electrical Interlock - R.H.	1	
	U150A100FXX1RMS	• CONTACTOR, Reversing (Dwg 100E8237-4)	1	
11	0863V094	• • SCREW, Slot bind hd mach #10-32UNC X 3/8	4	
12	20Q260D224	• • SCREW, Hex hd cap 5/16-18UNC X 3/4in.	4	
13	3616V008	• • WASHER, Lock 5/16in.	2	
14	3632V003	• • WASHER, Flat 5/16in.	2	
	100E6265F1	• • INTERLOCK, Mechanical	1	
15	18F2312	• • • PLATE, Adjusting - Mech Interlock	1	
	100F584F2	• • • INTERLOCK, Mechanical	1	
16	18F1085C1	• • • • LEVER, Cam	2	
17	13H2357	• • • • ROLLER, Cam lever	2	
18	19Z8D111	• • • • PIN, Roller	2	
19	16F2053	• • • • BRACKET, Cam follower	1	
20	20Q260D201	• • • • SCREW, Hex hd cap 1/4-20UNC X 2-1/2in.	2	
21	3616V007	• • • • WASHER, Lock 1/4in.	2	
22	3632V002	• • • • WASHER, Hvy flat 1/4in.	2	
23	25H3248	• • • • BEARING, Strip	1	
24	17Z261	• • • • SPRING	1	
25	16H1974	• • • • BRACKET, Mechanical interlock	1	
26	18H8688	• • • SPACER, Interlock	2	
27	79A1597	• • SUPPORT, Main mounting	1	
28	979A107F3	• • CONTACT, Movable	2	14-40
29	17F18	• • WASHER, Spring	2	
30	79F4145	• • CORE, Magnet	2	
31	975E594F5	• • COIL, Molded	2	

CONTACTOR, REVERSING

REF	PART NO.	DESCRIPTION	QTY	PAGE
32	979A102F3	· · CONTACT, Stationary	2	14-39
33	979E269F1	· · SHIELD, Arc	2	
34	0664V083	· · · SCREW, Slot pan hd mach #8-32UNC X 1-3/4	1	
35	3616V004	· · · WASHER, Lock #8	1	
36	2038V004	· · · NUT, Hex #8-32UNC	1	
37	0664V093	· · · SCREW, Slot pan hd mach #10-24UNC X 1/2	2	
38	3617V007	· · · WASHER, Bronze Lock #10	2	
39	79F4188	· · · RUNNER, Movable arc	1	
40	79A1538D1	· · · SHIELD, Arc - L.H.	1	
41	79A1538D2	· · · SHIELD, Arc - R.H.	1	
42	32Z2064	· PLATE, Name	1	
43	20Q260D191	· SCREW, Hex hd cap 1/4-20UNC x 5/8 in	6	
44	3616V007	· WASHER, Lock 1/4 in	6	
45	20Q260D260	· SCREW, Hex hd cap 3/8-16UNC x 1-1/4 in	2	
46	3616V009	· WASHER, Lock 3/8 in	2	



CONTACT, STATIONARY



F1792



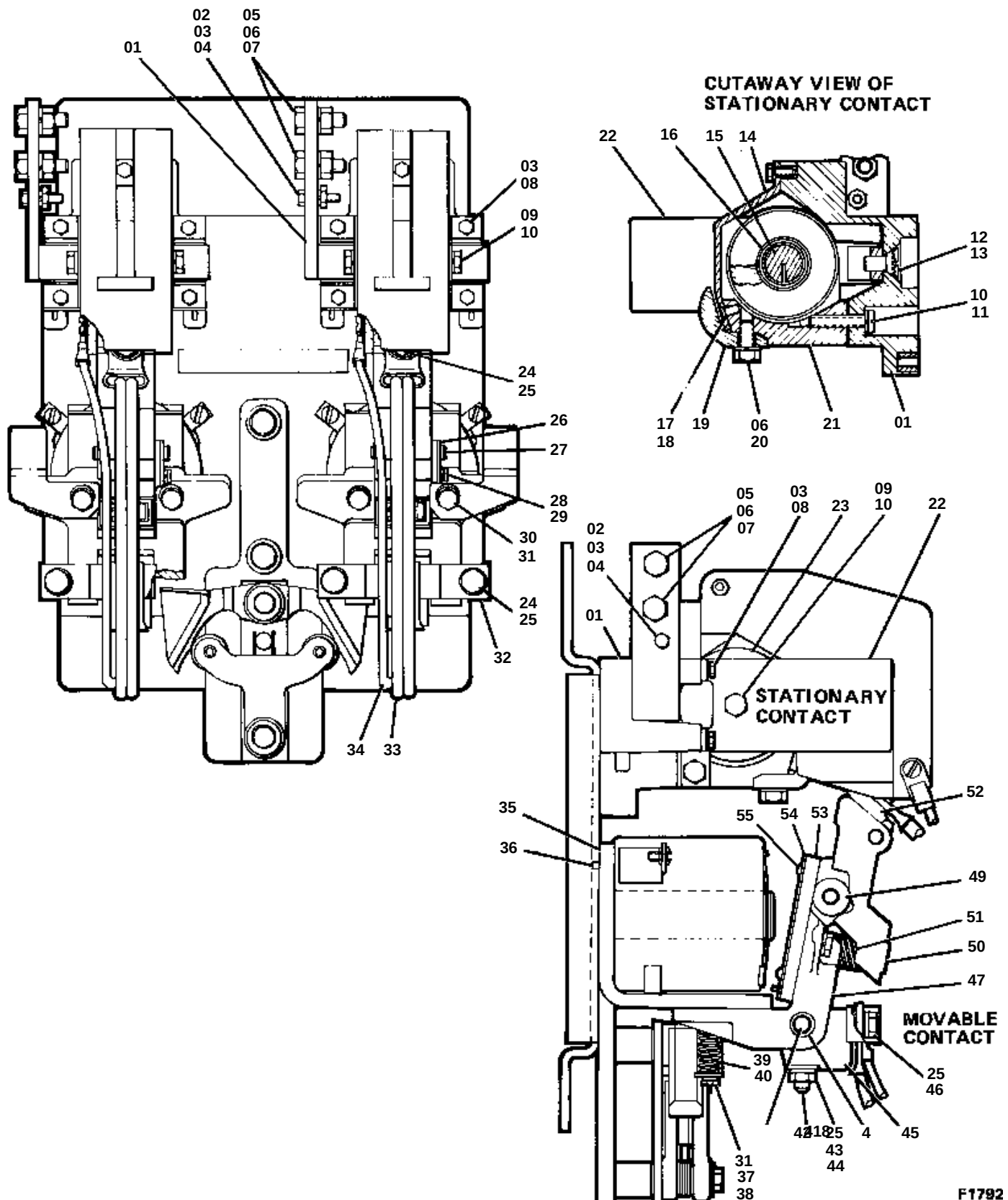
CONTACT, STATIONARY

REF	PART NO.	DESCRIPTION	QTY
	979A102F3	CONTACT, STATIONARY	
01	79A1502	· BASE, Blowout	1
02	0846V085	· SCREW, Hex hd mach #10-24UNC X 3/4in	1
03	3616V005	· WASHER, Lock #10	6
04	2136V005	· NUT, Hex #10-24UNC	1
05	0826V022	· SCREW, Hex hd cap 5/15-18UNC X 7/8in	2
06	3616V008	· WASHER, Lock 5/16in	3
07	2145V002	· NUT, Hex 5/16-18UNC	2
08	0846V082	· SCREW, Hex hd mach #10-24UNC X 1/2in	5
09	0826V002	· SCREW, Hex hd cap 1/4-20UNC X 1/2in	2
10	3616V007	· WASHER, Lock 1/4in	3
11	0862V140	· SCREW, Pan hd mach 1/4-20UNC X 1-1/4in	1
12	0844V114	· SCREW, Slot fl hd mach 5/16-18UNC X 3/4in	1
13	18Z2798D9	· WASHER, Countersunk lock 5/16in	1
14	79F4159	· RUNNER, Arc	1
15	79H2117	· CORE, Blowout	1
16	18Z2793	· TUBE, Insulation coil	1
17	0844V062	· SCREW, Slot fl hd mach #10-24UNC X 1/2in	1
18	18Z2798D5	· WASHER, Countersunk lock #10	1
19	79Z3145	· CONTACT TIP, With Silver Insert - Stationary	1
20	0826V020	· SCREW, Hex hd cap 5/16-18UNC X 5/8in	1
21	979E226F1	· COIL, Blowout	1
22	71F257	· POLE PIECE	2
23	18Z2794	· WASHER, Insulation coil	2

(NOTE: ITEMS 24 THROUGH 55 ARE USED ON 979A107F3)



CONTACT, MOVABLE



F1792

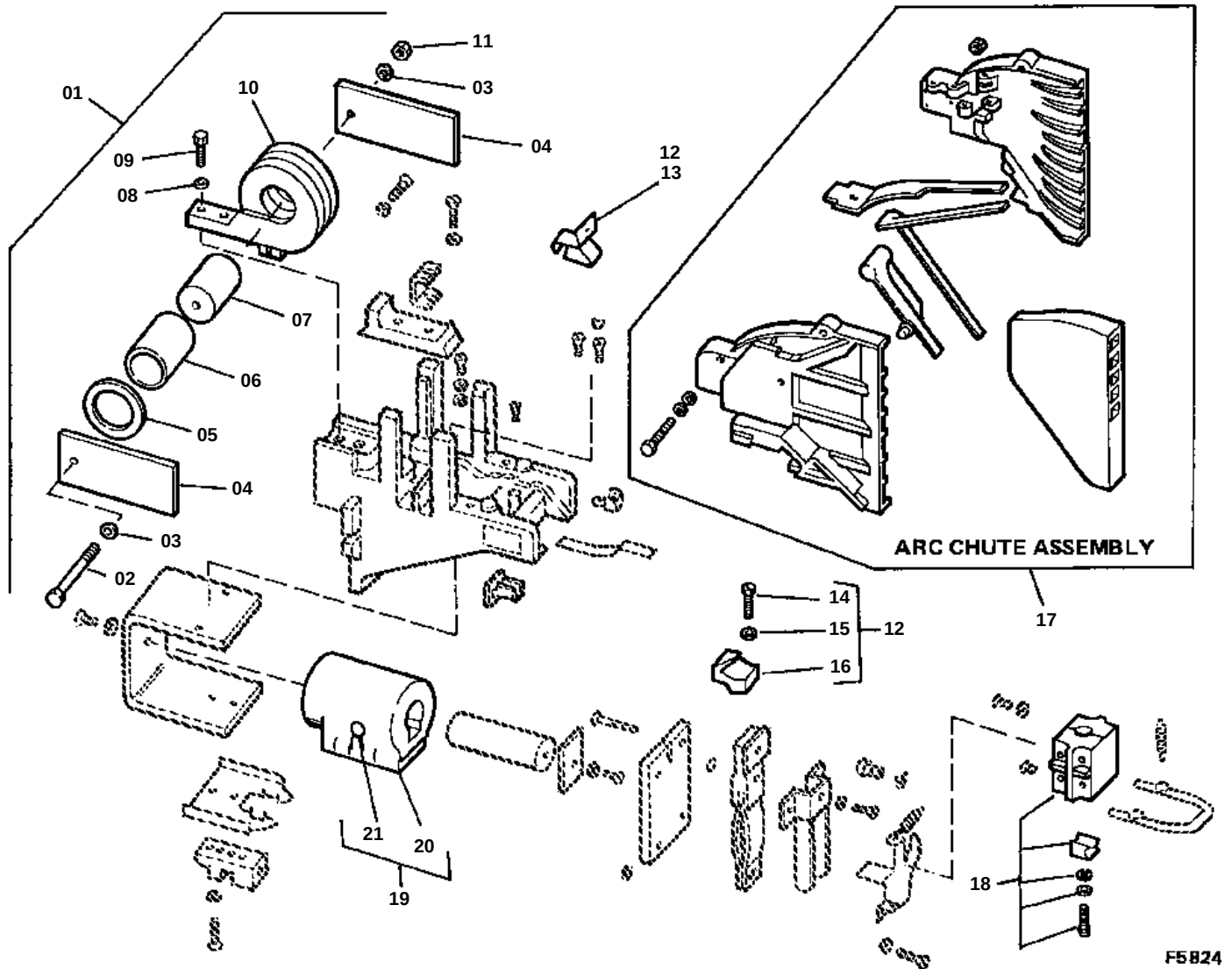


CONTACT, MOVABLE

REF	PART NO.	DESCRIPTION	QTY
	979A107F3	CONTACT, MOVABLE	
ITEMS 01 THROUGH 23 ARE USED ON 979A102F3			
24	0826V021	• SCREW, Hex hd cap 5/16-18UNC X 3/4in	3
25	3616V008	• WASHER, Lock 5/16in	5
26	18H8737	• RETAINER	1
27	10F9880	• SHAFT, Contact arm	1
28	0862V075	• SCREW, Pan hd mach #8-32UNC X 3/8in	1
29	3616V004	• WASHER, Lock #8	1
30	0826V004	• SCREW, Hex hd cap 1/4-20UNC X 3/4in	2
31	3616V007	• WASHER, Lock 1/4in	4
32	79F4155	• TERMINAL, Bottom	1
33	79F4205	• LEAD, Shunt	1
34	79F4206	• LEAD, Arc runner	1
35	79E4703F1	• FRAME, Magnet	1
36	19Z223D79	• PIN, Spring	1
37	0846V122	• SCREW, Hex hd mach 1/4-20UNC X 3/4in	2
38	3632V001	• WASHER, Hvy flat 3/16in	2
39	17Z705	• SPRING, Return	1
40	18H8949	• RETAINER	1
41	19Z243D3	• PIN.	1
42	0682V052	• SCREW, Sk hd cup pt set 5/16-18UNC X 1-1/4	1
43	3631V006	• WASHER, Flat 5/16in	1
44	2145V002	• NUT, Hex 5/16-18UNC	1
45	79E4726D1	• BLOCK, Pivot	1
46	0826V022	• SCREW, Hex hd cap 5/16-18UNC X 7/8in	1
47	979E270F1	• ARM, Rocker	1
48	5Z386D1	• BUSHING	2
49	5Z386D2	• BUSHING	2
50	79A1527	• ARM MOLDING, Contact	1
51	17Z708	• SPRING, Contact	1
52	79Z3145	• CONTACT TIP, With Silver Insert - Movable	1
53	979F723F1	• ARMATURE	1
54	20F465	• SHIM, Armature	1
55	20Z42D10	• SCREW, Drive #6 X 5/16in	2



CONTACTOR

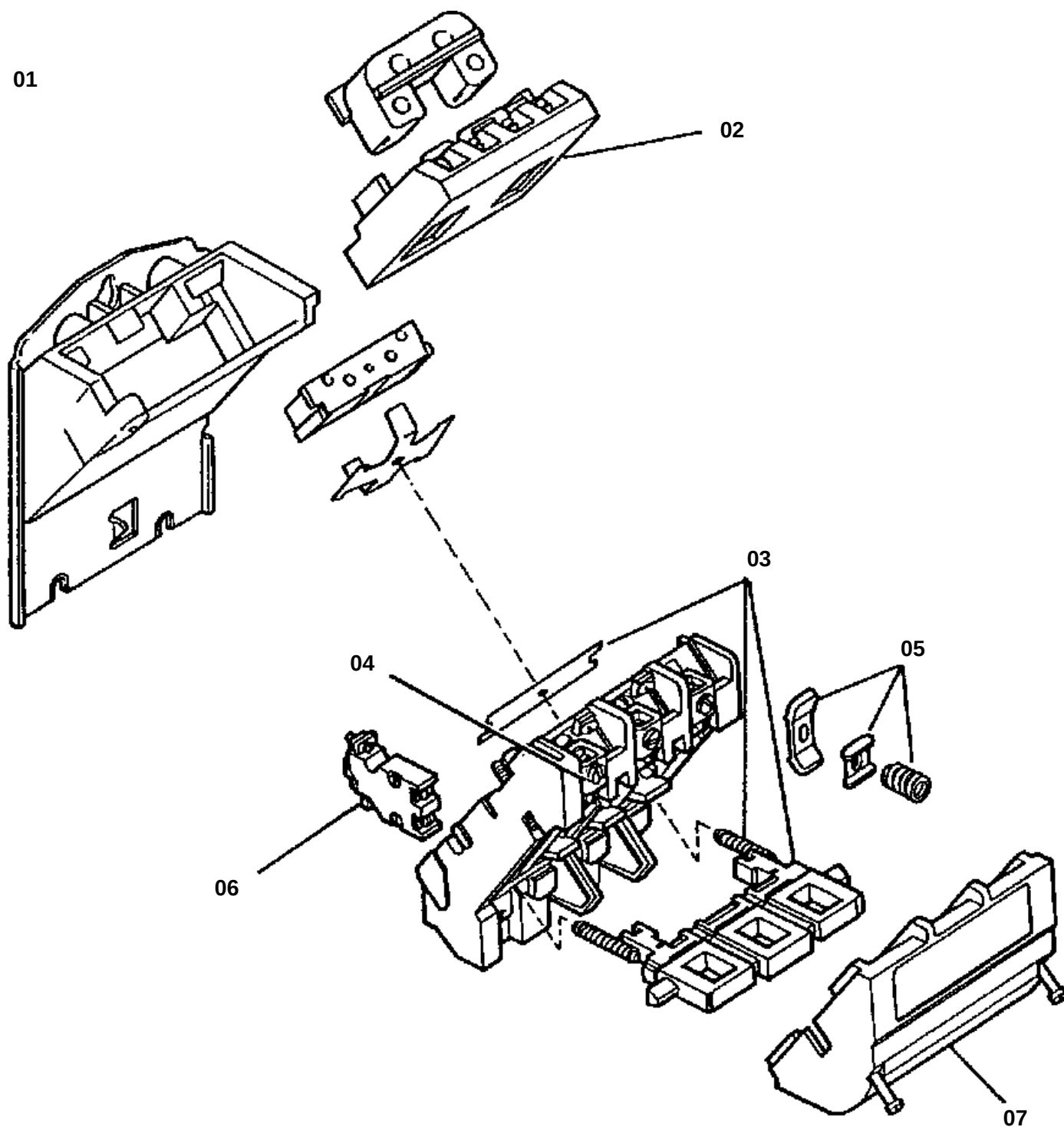


CONTACTOR

REF	PART NO.	DESCRIPTION	QTY
	R5877D1	CONTACTOR	
01		• COIL, BLOW-OUT	1
02	1020Z12966	• • SCREW	1
03	1018Z12684	• • WASHER, Lock	2
04	1018Z12683	• • PLATE, Pole	2
05	1079Z6839	• • BARRIER, Insulating	1
06	1079Z6838	• • SHEET, Insulating	1
07	1075Z1839	• • CORE, Magnet	1
08	1018Z12685	• • WASHER	2
09	1020Z12968	• • SCREW	2
10	1075Z1838	• • COIL, Blow-out	1
11	1020Z12967	• • NUT	1
12	1079Z6828	• KIT, CONTACT	1
13		• • CONTACT, Moveable	3
14		• • SCREW	2
15		• • WASHER	2
16		• • CONTACT, Stationary	1
17	1079Z6830	• ARC CHUTE	1
18	1079Z6832	• SWITCH, Auxiliary - 2 NO/2NC	1
19		• COIL, 96VDC	1
20	1075Z1836	• • COIL	1
21	1079Z6848	• • SUPPRESSOR, Surge	1



CONTACTOR, SIZE 2-3 POLE



F5021A



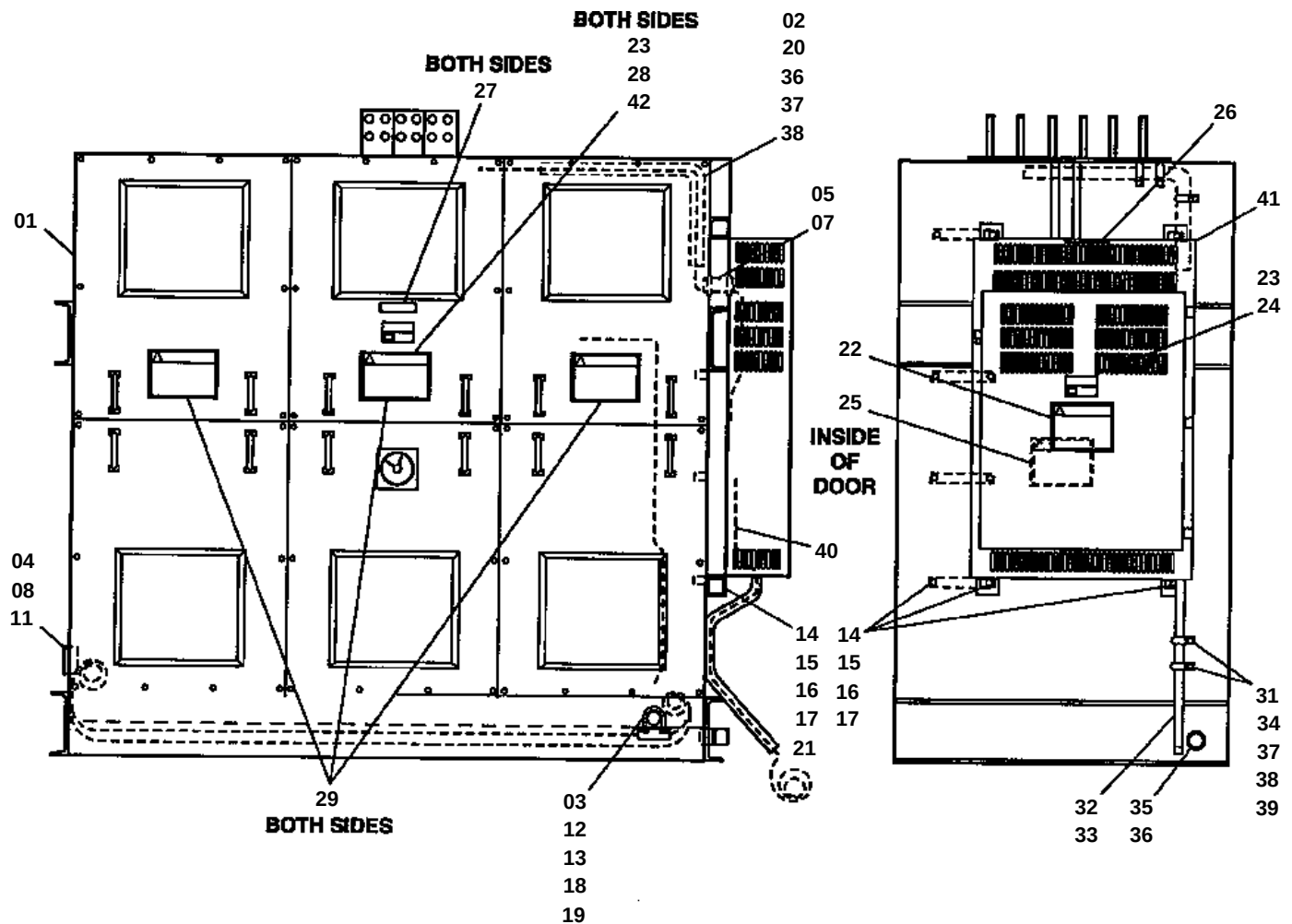
Machine
Serial Number: **4184**

CONTACTOR, SIZE 2-3 POLE

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TRANSFORMER MODULE, MAIN



F6228



TRANSFORMER MODULE, MAIN

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R7801F31	TRANSFORMER MODULE, MAIN		
01	75Q273D2	· TRANSFORMER, Main	1	
02	304A13372	· SEALTITE, 2 x 72 in	AR	
03	87N258D11	· CONDUIT, 3 x 34 in	1	
04	87N259D25	· CONDUIT, 4 x 5 in	1	
05	87N256D3	· CONDUIT, 2 x 5 in	1	
06	0909V007	· CONDUIT, Clamp 2 in (Not shown)	3	
07	0944V006	· NUT, Lock 2 in	5	
08	0944V010	· NUT, Lock 4 in	4	
09	87Z81D6	· BUSHING, End 2 in (Not shown)	2	
10	87Z81D8	· BUSHING, End 3 in (Not shown)	2	
11	87Z81D9	· BUSHING, End 4 in	2	
12	3616V008	· WASHER, Lock 5/16 in	3	
13	20Q270D20	· NUT, Hex 5/16-18UNC	3	
14	20Q260D55	· SCREW, Hex Hd Cap 3/8-16UNC x 5/8 in	14	
15	3631V007	· WASHER, Plain 3/8 in	14	
16	3616V009	· WASHER, Lock 3/8 in	14	
17	20Q270D24	· NUT, Hex 3/8-16UNC	14	
18	16N3348D3	· ANGLE, Mounting	2	
19	20Q3D8	· U-BOLT, 3 in	2	
20	79Z5584D7	· FERRULES, 2 in	2	
21	16P7284D1	· BRACKET	4	
22	32Q1752	· DECAL, Warning Hazardous Voltage	1	
23	32Q1780D3	· DECAL, Notice Voltage	3	
24	32Q1805D58	· LABEL, Identification Voltage 600	1	
25	32Q1806	· DECAL, Danger Hazardous Voltage	1	
26	32Q590D28	· DECAL, Transformer Suppression Cabinet	1	
27	32Q1918D4	· SIGN, Main Transformer	2	
28	32Q1805D39	· LABEL, Identification Voltage 7200	2	
29	32Q1809	· SIGN, Warning Hazardous Voltage	6	
30	79R443D7	· CABLE, Clamp (Not shown)	4	
31	20Q260D194	· SCREW, Hex Hd Cap 1/4-20UNC x 1 in	5	
32	0929V004	· COUPLING, Flex 1 in	2	
33	030413244	· CONDUIT, Flex 1 x 36 in	AR	
34	0916V004	· STRAP, Conduit 1 in	2	
35	79Z878D8	· SEALTITE, Connector 2-1/2 in	1	
36	0929V008	· COUPLING, 2-1/2 in	1	

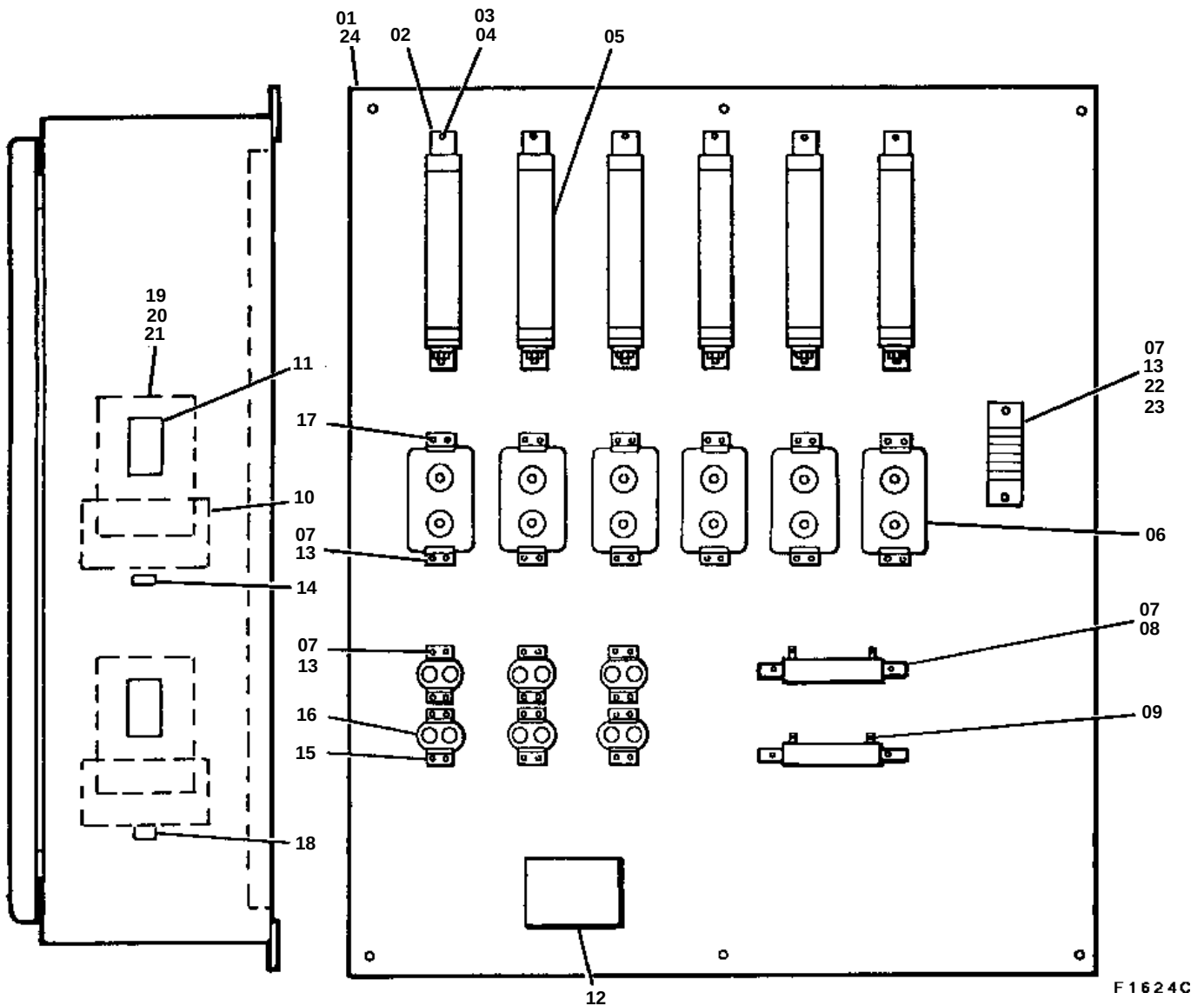


Machine
Serial Number: **4184**

REF	PART NO.	DESCRIPTION	QTY	PAGE
37	20Q270D16	· NUT, Hex 1/4-20UNC	5	
38	3631V005	· WASHER, Plain 1/4 in	5	
39	3616V007	· WASHER, Lock 1/4 in	5	
40	R30930F12	· CABLE INSTALLATION, Main Transformer Suppression Cabinet Module	1	
41	79E6030F4	· CABINET, Suppression	1	14-44
42	32Q1805D34	· LABEL, Identification Voltage-4160	2	



PANEL, SUPPRESSION



PANEL, SUPPRESSION

REF	PART NO.	DESCRIPTION	QTY
	79E6030F4	PANEL, SUPPRESSION	
01	14J1787D1F1	• CABINET	1
02	16Z316D1	• BRACKET, Resistor Mounting	6
03	0862V133	• SCREW, Ph hd mach 1/4-20UNC X 1/2in lg	12
04	3616V007	• WASHER, Lock 1/4in	12
05	80Z31D18	• RESISTOR, 6 Ohm+/-10% 300W	12
06	84Z237D1	• CAPACITOR, 20uf	6
07	3616V005	• WASHER, Lock - Helical Spring #10	52
08	0862V109	• SCREW, Ph hd mach #10-24UNC X 2-3/4in lg	4
09	80Z1004D31	• RESISTOR, 12K Ohm 70W	6
10	79Z3417	• BOARD, Insulating	2
11	79Z3381D38	• BREAKER, Circuit 3 Pole 30A 600V	2
12	32Z1581D7	• DECAL, Danger	1
13	0862V096	• SCREW, Ph hd mach #10-24UNC X 1/2in lg	48
14	32Z1334D1	• LABEL, Identification - Mark Label S1SB	1
15	16Z335D15	• BRACKET, Footed - Capacitor	12
16	84Z170D4	• CAPACITOR, 1 0uf 1500VAC	6
17	16Z335D4	• BRACKET, Footed - Capacitor Mounting	12
18	32Z1334D1	• LABEL, Identification - Mark Label S2SB	1
19	18Z733D6	• WASHER, Lock - Internal Tooth #8	8
20	0860V561	• SCREW, Rd hd mach #8-32UNC X 4in lg	8
21	9136V004	• NUT, Hex #8-32UNC	8
22	3631V004	• WASHER, Plain 190	2
23	79H2159D6	• BLOCK, Terminal - 6 Position	1
24	79Q1036D19	• PANEL	1

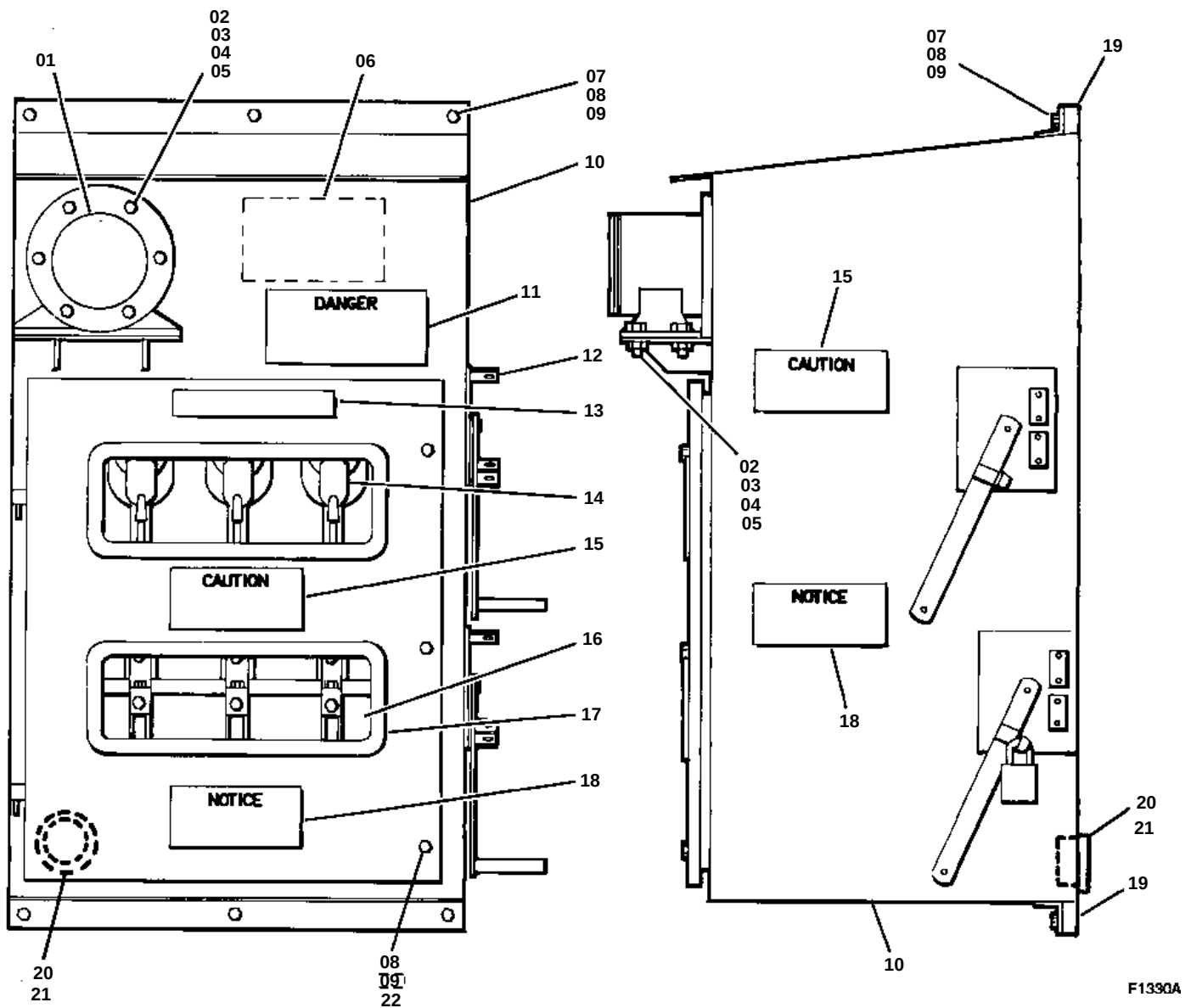


Machine
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LOAD CENTER

REF	PART NO.	DESCRIPTION	QTY
	R30212D1	LOAD CENTER	
01	1079Z7692	· BREAKER, Circuit -Main 150 AMP	1
02	1079Z2038	· BREAKER, Circuit - 1 Pole, 15 AMP	9
03	1079Z1811	· BREAKER, Circuit - 1 Pole, 20 AMP	21
04	1079Z1813	· BREAKER, Circuit - 2 Pole, 20 AMP	1
05	1079Z1812	· BREAKER, Circuit - 3 Pole, 20 AMP	1
06	1079Z7691	· BREAKER, Circuit - 1 Pole, 10 AMP	1
07	1006Z1052	· HANDLE, Padlock Attachment - Off Position	31
08	1006Z1053	· HANDLE, Padlock Attachment - Fixed Off Position	2
09	1006Z2054	· PADLOCK ATTACHMENT, Main Breaker	1

DISCONNECT, LOWER, HIGH-VOLTAGE



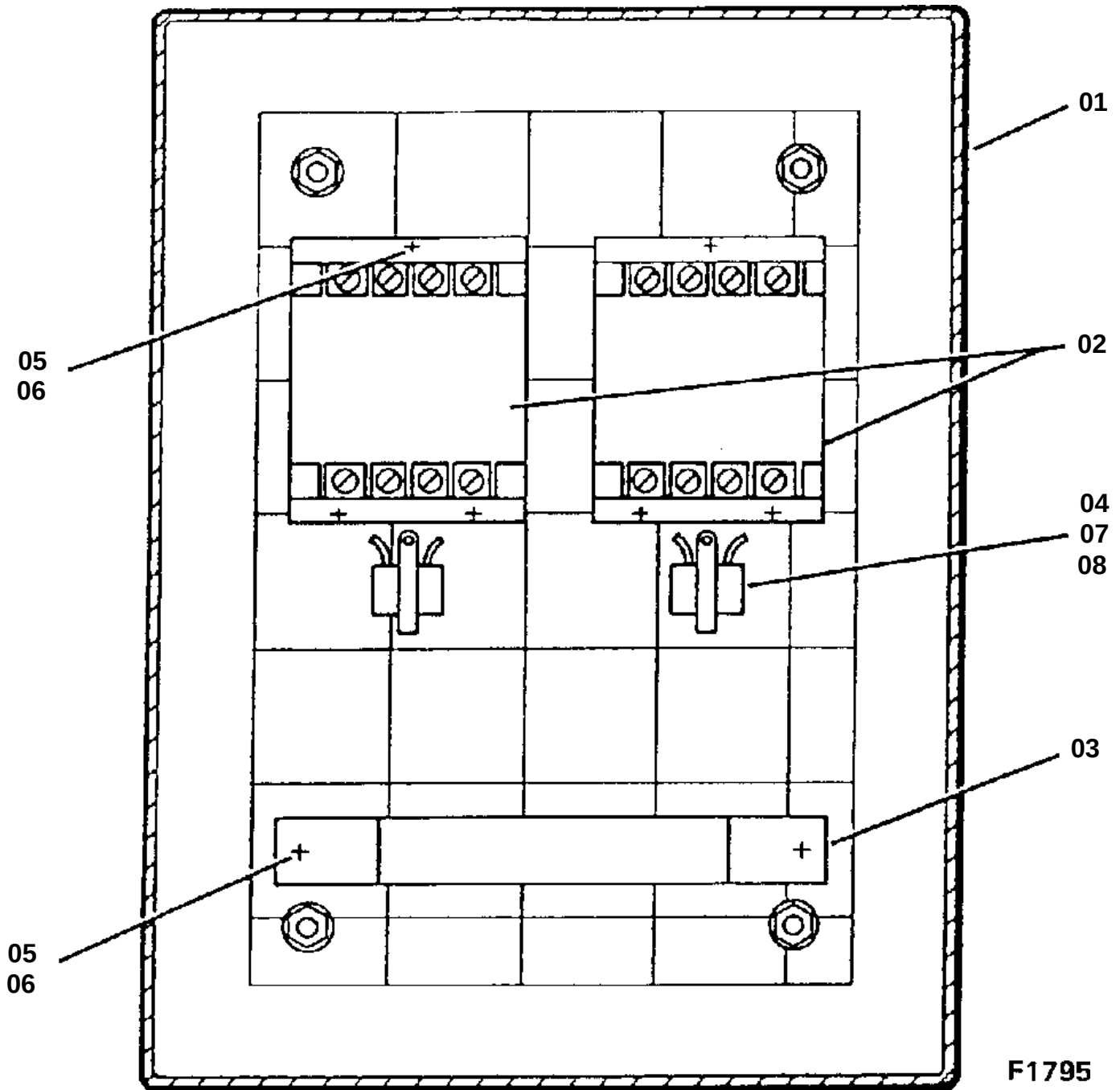
F1330A

DISCONNECT, LOWER, HIGH-VOLTAGE

REF	PART NO.	DESCRIPTION	QTY
	100J6152F1	DISCONNECT, LOWER, HIGH-VOLTAGE	
01	87Z155D55	• COUPLER, Cable	1
02	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in.	16
03	20Q270D16	• NUT, Hex 1/4-20UNC	16
04	3616V007	• WASHER, Lock 1/4 in. MPC	16
05	3631V005	• WASHER, Plain 1/4 in. MPC	16
06	32Q1930	• DECAL, Danger	1
07	20Q260D324	• SCREW, Hex Hd Cap 1/2-13UNC x 7/8 in.	6
08	3616V011	• WASHER, Lock 1/2 in. MPC	12
09	3632V006	• WASHER, Plain 1/2 in. MPC	12
10	14A3461D1F1	• CABINET	1
11	32Q1936	• SIGN, Danger	1
12	6Q455	• HANDLE ASSEMBLY	2
13	32Q639D96	• NAMEPLATE	1
14	79Q1296	• SWITCH, Load Interrupt and Earthing	1
15	32Q1770D1	• SIGN, Caution	2
16	27Z1365	• GLASS, Safety	2
17	27Z1356	• CHANNEL, Window	AR
18	32Q1771	• SIGN, Notice	2
19	718N233D137	• FLAT 1 x 2 x 32 in.	2
20	0949V013	• BUSHING, End 4.00 in.	1
21	0906V010	• BUSHING, End 4.00 in.	1
22	20Q270D32	• NUT, Hex 1/2-13UNC	6



CONTACTOR, CAB FLOODLIGHT

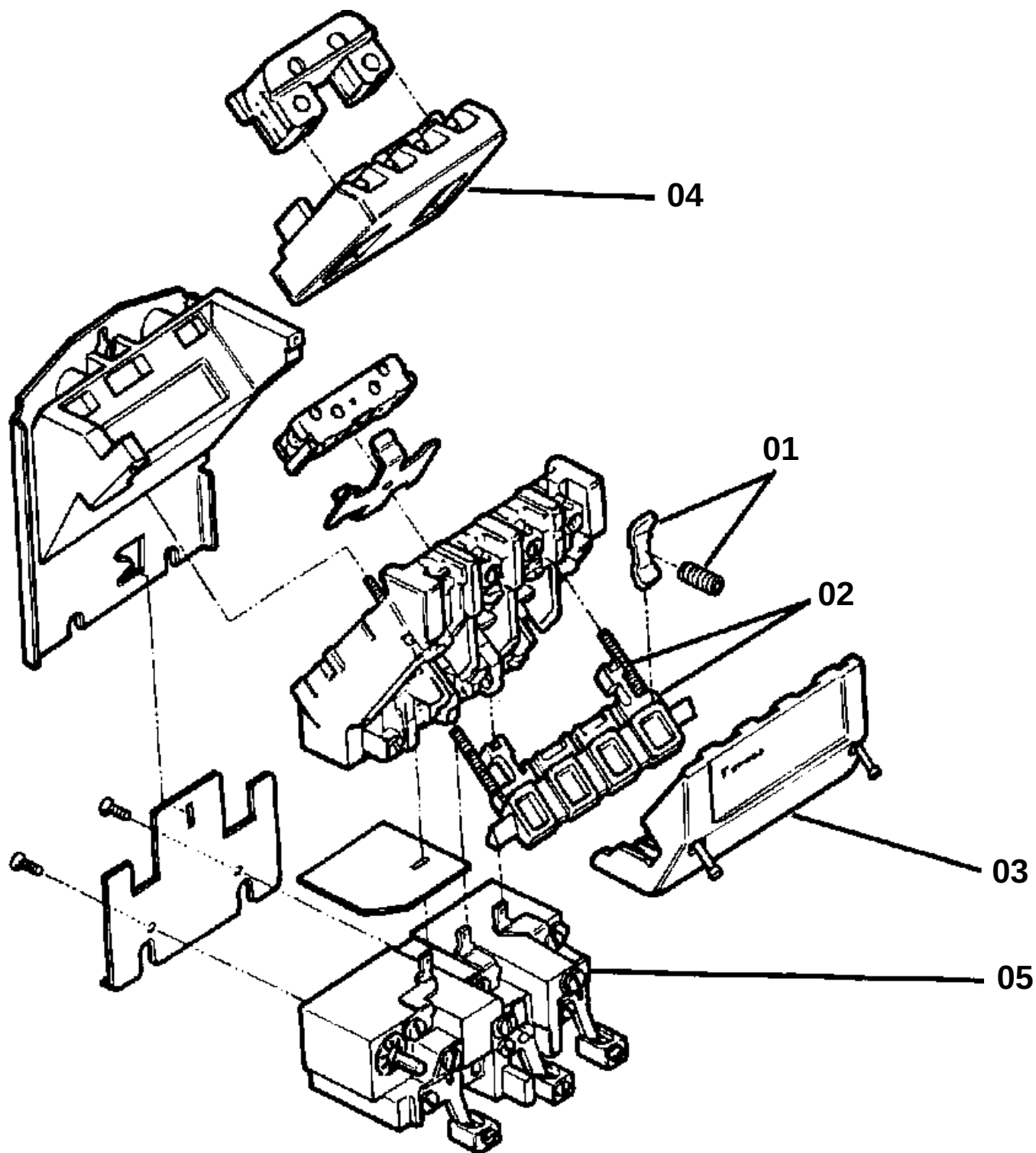


CONTACTOR, CAB FLOODLIGHT

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100E6760F1	CONTACTOR, CAB FLOODLIGHT		
01	14Q83D5	· ENCLOSURE	1	
02	479U187D11	· CONTACTOR	2	14-48
03	79H2159D20	· BLOCK, Terminal	1	
04	79Z2475D1	· NETWORK, RC Filter & Varistor	2	
05	0862V096	· SCREW, Pan Hd Mach 10-24UNC x 1/2in MPC	8	
06	3515V005	· WASHER, Lock #10, MPC	8	
07	32Z890D9	· TIE, Wire	2	
08	20Z1684D1	· RIVET	2	



CONTACTOR, SIZE #1, 4-POLE



F653



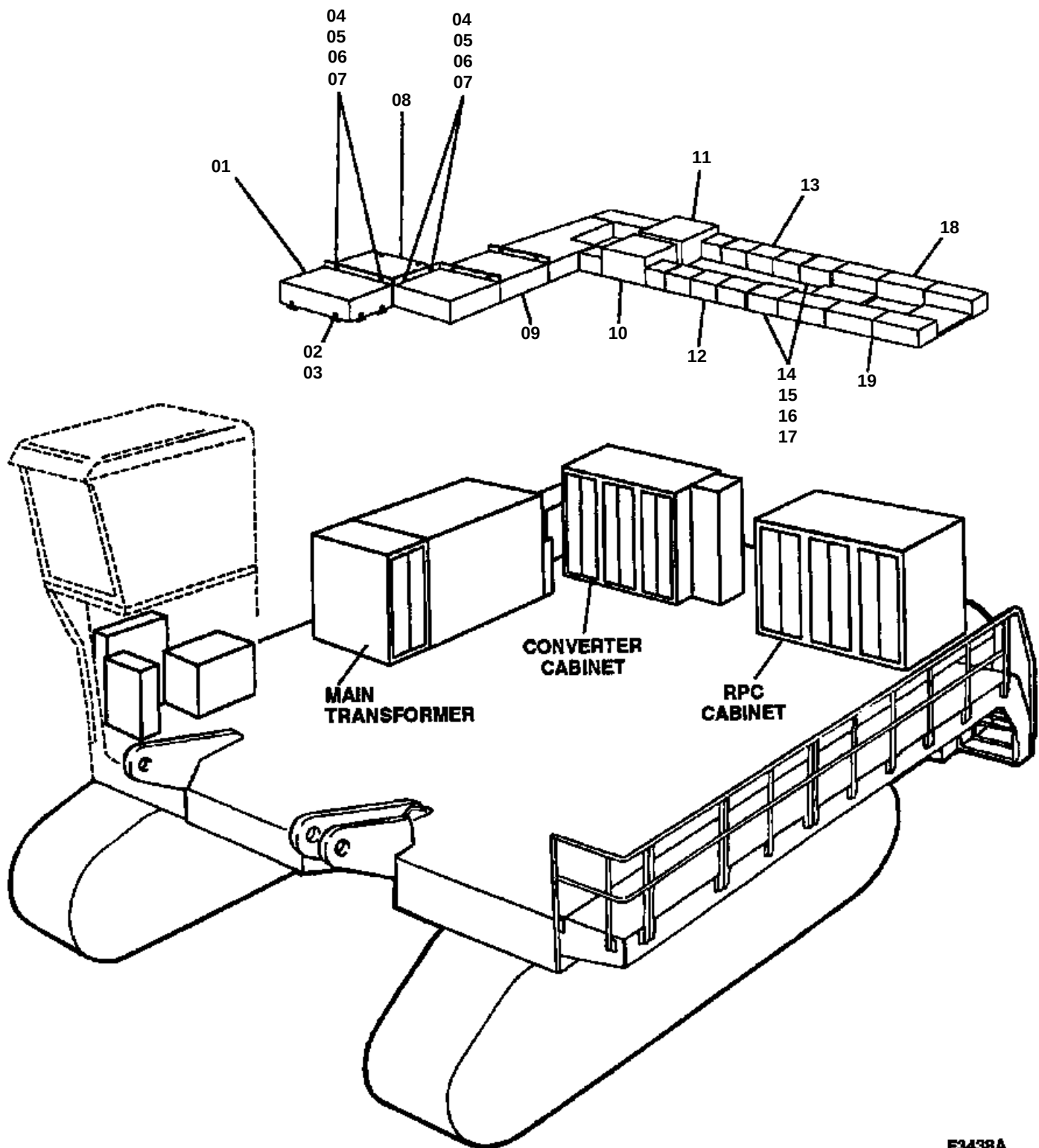
Machine
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CONTACTOR, SIZE #1, 4-POLE

[illegible]



BUS BAR ASSEMBLY



F3438A



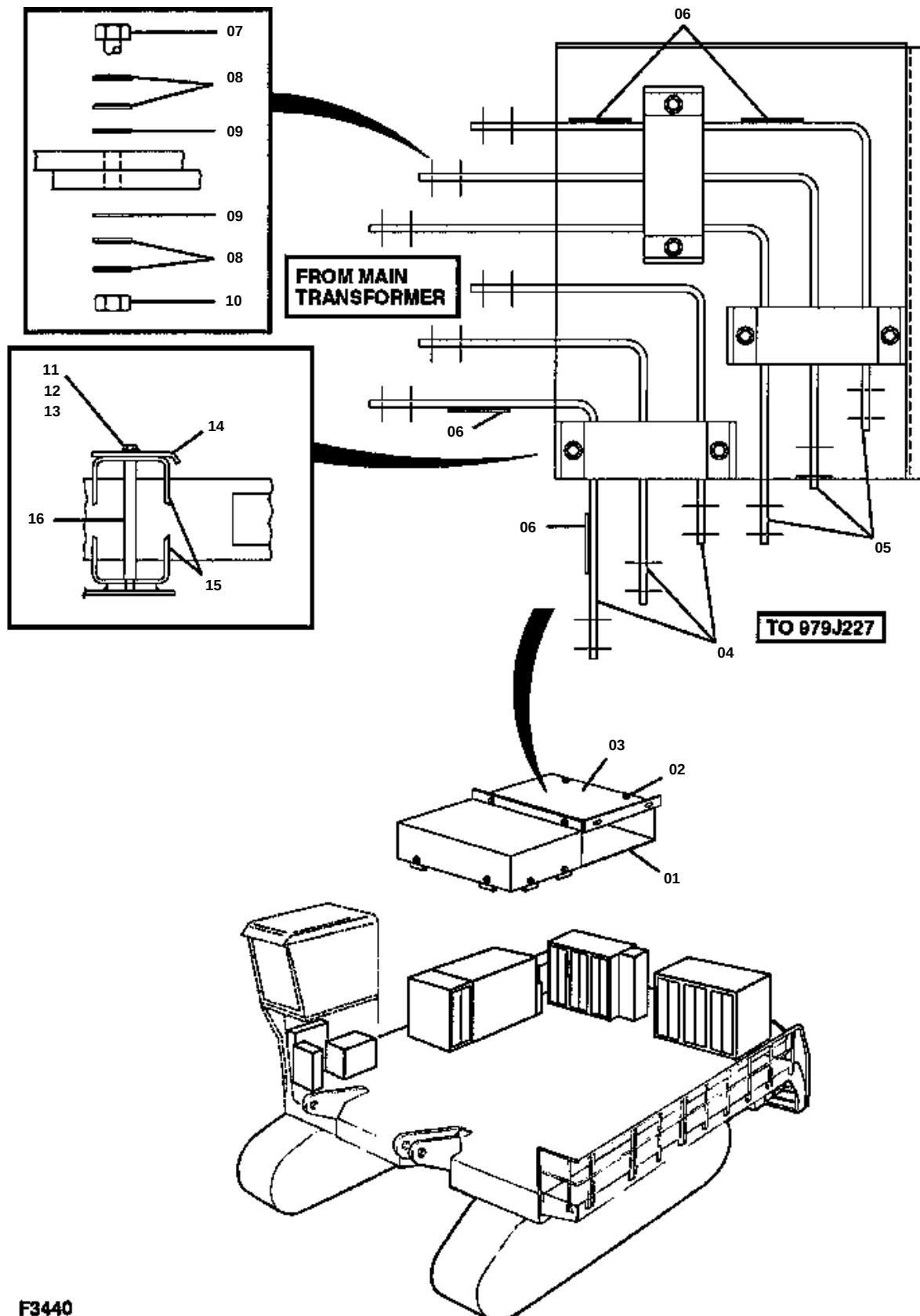
Machine Serial Number: **4184**

BUS BAR ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY	PAGE
	100J6509F1	BUS BAR ASSEMBLY		
01	87N484F1	• COVER	1	
02	16H5545D6	• • PAD, Mounting	6	
03	20Z1703D30	• • SCREW, Flanged Lock 1/4-20UNC x 1 in.	6	
04	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in	4	
05	3631V005	• WASHER, Plain 1/4 in MPC	8	
06	3616V007	• WASHER, Lock 1/4 in MPC	4	
07	20Q270D16	• NUT, Hex 1/4-20UNC	4	
08	979J228F1	• BUS BAR Sub-Assembly	1	14-50
09	979J227F1	• BUS BAR Sub-Assembly	1	14-51
10	979N192F1	• BUS BAR Sub-Assembly	1	14-52
11	979N196F1	• BUS BAR Sub-Assembly	1	14-53
12	979N190F1	• BUS BAR Sub-Assembly	1	14-54
13	979N191F1	• BUS BAR Sub-Assembly	1	14-55
14	20Q260D256	• SCREW, Hex Hd Cap 3/8-16UNC x 3/4 in	4	
15	3616V009	• WASHER, Lock 3/8 in MPC	4	
16	3631V007	• WASHER, Plain 3/8 in MPC	8	
17	20Q270D24	• NUT, Hex 3/8-16UNC	4	
18	R26665F1	• BUS BAR Sub-Assembly	1	14-56
19	R26665F2	• BUS BAR Sub-Assembly	1	14-57
20	21Z808	• COMPOUND, Electrical Joint (Not Shown)	AR	



BUS BAR SUBASSEMBLY



F3440



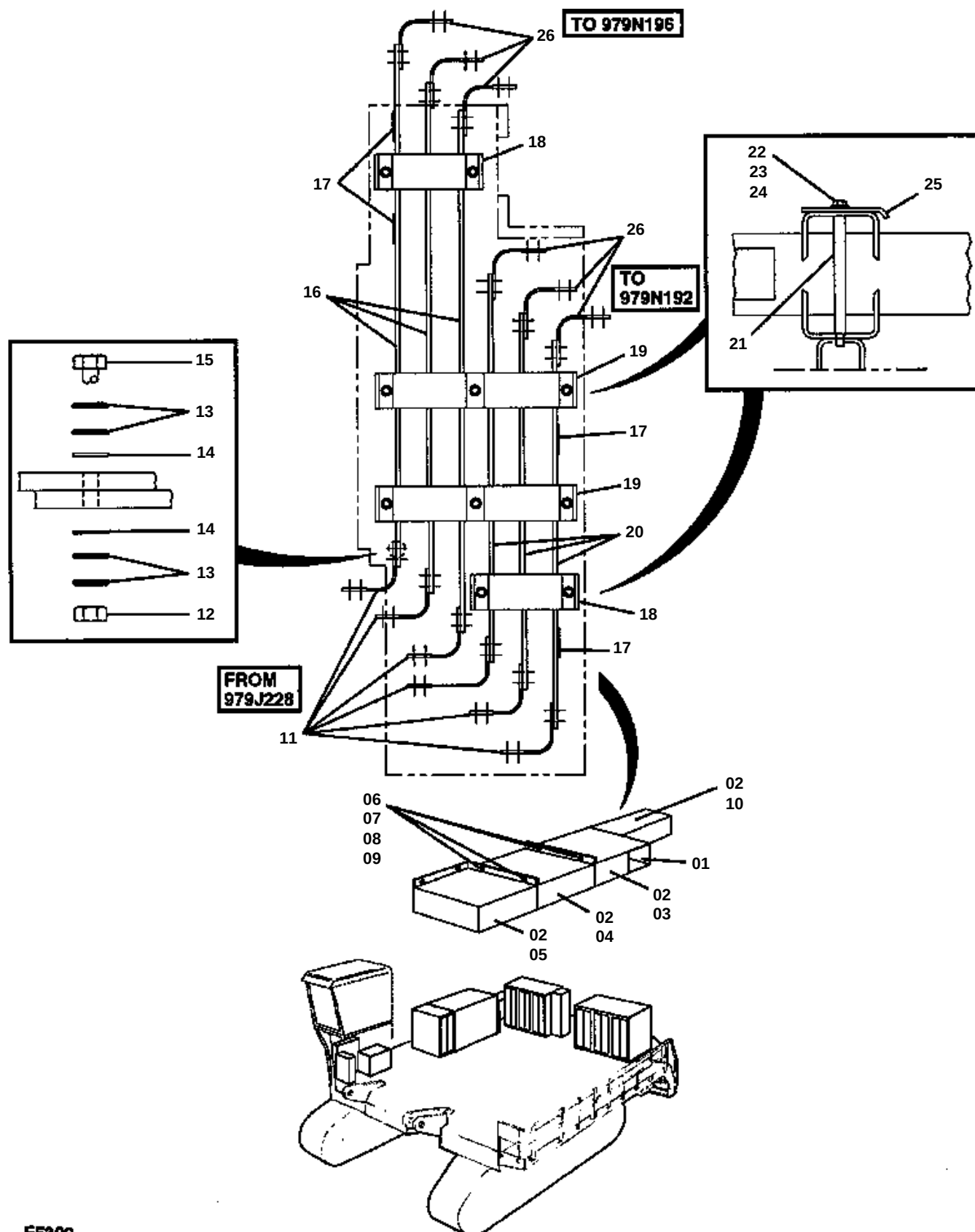
Machine
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BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979J228F1	BUS BAR SUB-ASSEMBLY	
01	79J156F1	• MODULE, Bus Bar	1
02	20Z2054D24	• • SCREW, Hex Hd 1/4-28UNF x 3/8 in	4
03	87N483	• • COVER	1
04	79F5101D2	• BAR, Bus	3
05	79F5101D1	• BAR, Bus	3
06	32Q1812	• DECAL, Danger	4
07	20Q260D330	• SCREW, Hex Hd Cap 1/2-13 x 2 in	24
08	17Z286D15	• SPRING, Disc 1/2 in	96
09	3631V009	• WASHER, Plain 1/2 in	48
10	20H1617D45	• NUT, Hex 1/2"-13	24
11	20Q260D345	• SCREW, Hex Hd Cap 1/2-13UNC x 7 in	6
12	3616V011	• WASHER, Lock 1/2 in	6
13	3631V009	• WASHER, Plain 1/2 in	6
14	16H3867	• SUPPORT, Bus Bar Clamp	6
15	16F9387	• CHANNEL, Insulating	6
16	18F2129D17	• SPACER, 5-9/16 in	6



BUS BAR SUBASSEMBLY



F5300

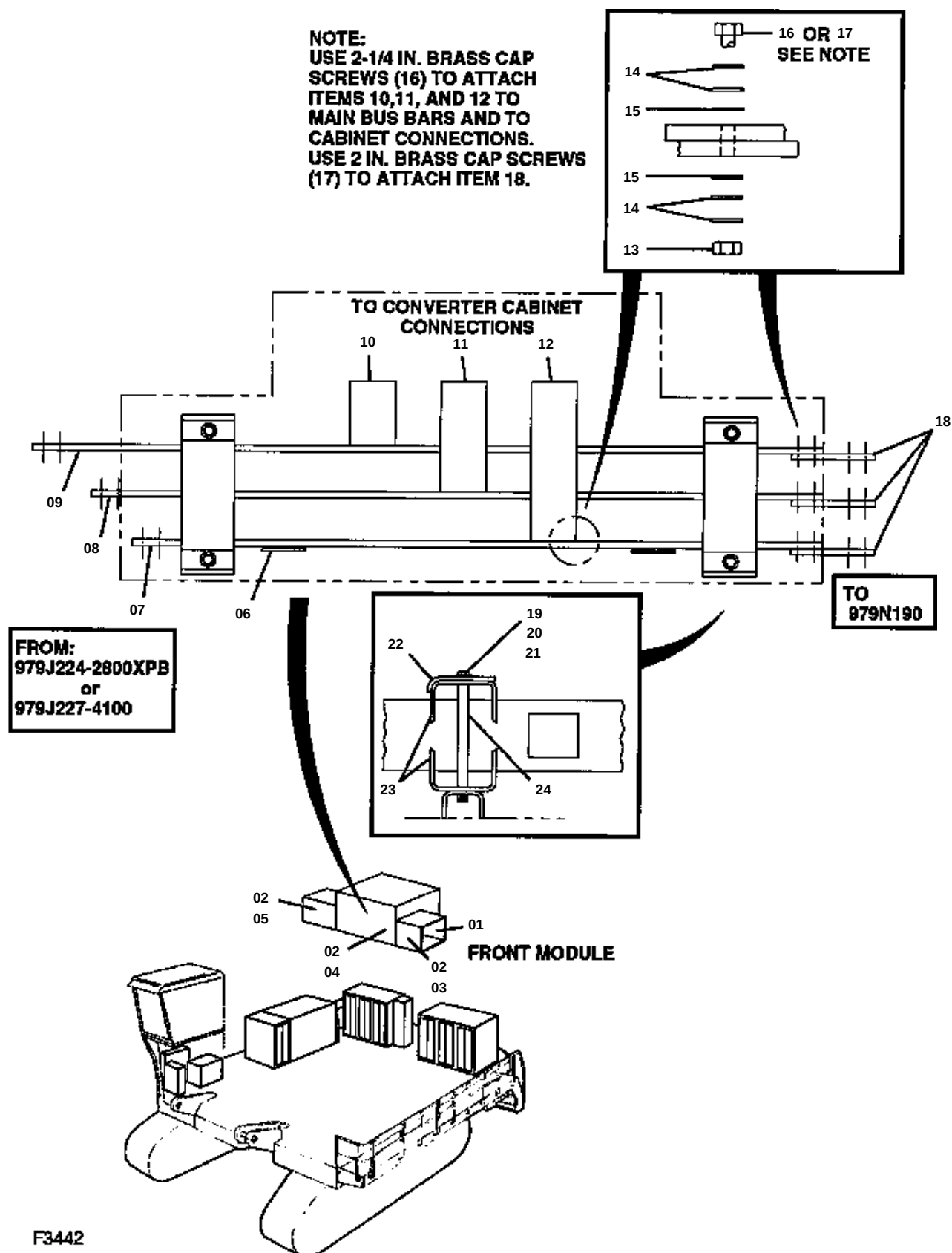
BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979J227F1	BUS BAR SUBASSEMBLY	
01	79J155F1	· MODULE, Bus Bar	1
02	20Z2054D24	· · SCREW, Hex Hd 1/4-28UNF x 3/8 in	18
03	87N474	· · COVER	1
04	87N481	· · COVER	1
05	87N482	· · COVER	1
06	20Q260D194	· · SCREW, Hex Hd Cap 1/4-20UNC x 1 in	4
07	3631V005	· · WASHER, Flat 1/4 in	4
08	3616V007	· · WASHER, Lock 1/4 in	4
09	20Q270D16	· · NUT, Hex 1/4-20UNC	4
10	87N473	· · COVER	1
11	79P437D3	· BUS BAR, Flexible	24
12	20H1617D45	· NUT, Hex 1/2"-13	96
13	17Z286D15	· SPRING, Disc	384
14	3631V009	· WASHER, Plain 1/2 in MPC	192
15	20Q260D330	· SCREW, Hex Hd Cap 1/2-13 x 2 in	96
16	79F5093D29	· BAR, Bus	3
17	32Q1812	· DECAL, Danger	4
18	16E8642	· CHANNEL, Insulating	4
19	16E5689	· CHANNEL, Insulating	4
20	79F5093D30	· BAR, Bus	3
21	16F2129D17	· SPACER, 5-9/16 in	10
22	20Q260D345	· SCREW, Hex Hd Cap 1/2-13UNC x 7 in	10
23	3616V011	· WASHER, Lock 1/2 in MPC	10
24	3631V009	· WASHER, Plain 1/2 in MPC	10
25	16H3867	· SUPPORT, Bus Bar Clamp	10
26	79P437D14	· BUS BAR, Flexible	12



BUS BAR SUBASSEMBLY

NOTE:
USE 2-1/4 IN. BRASS CAP
SCREWS (16) TO ATTACH
ITEMS 10,11, AND 12 TO
MAIN BUS BARS AND TO
CABINET CONNECTIONS.
USE 2 IN. BRASS CAP SCREWS
(17) TO ATTACH ITEM 18.



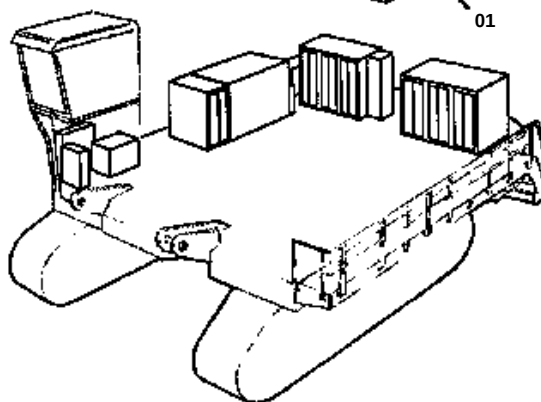
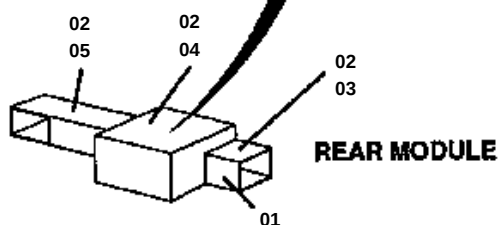
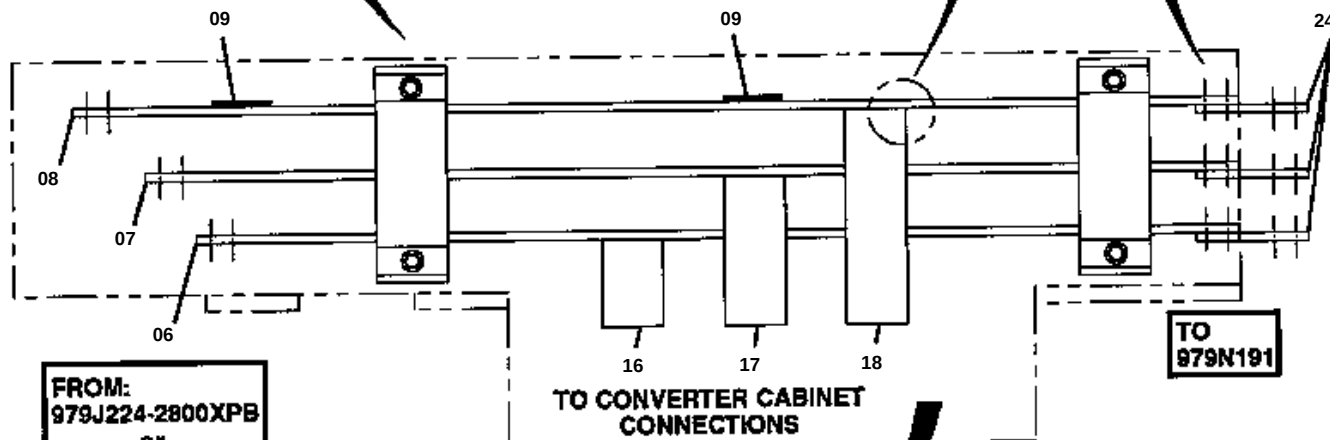
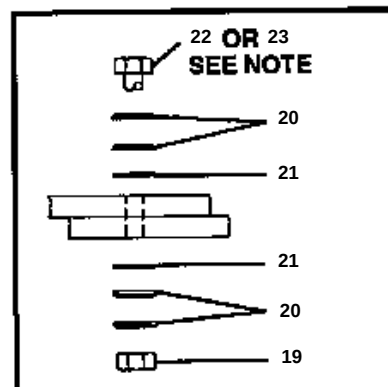
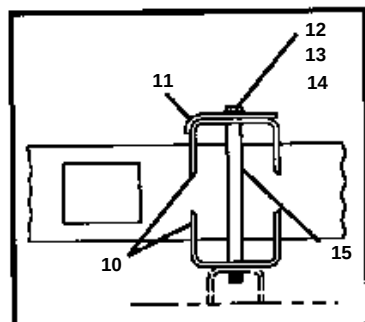
BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979N192F1	BUS BAR SUBASSEMBLY	
01	79J144F1	· MODULE, Bus Bar	1
02	20Z2054D24	· · SCREW, Hex Hd 1/4-28UNF x 3/8 in	17
03	87N469	· · COVER	1
04	87N470	· · COVER	1
05	87N471	· · COVER	1
06	32Q1812	· DECAL, Danger	2
07	79F5093D16	· BAR, Bus	1
08	79F5093D17	· BAR, Bus	1
09	79F5093D18	· BAR, Bus	1
10	79F5073D1	· BAR, Bus	1
11	79F5073D2	· BAR, Bus	1
12	79F5073D3	· BAR, Bus	1
13	20H1617D45	· NUT, Hex 1/2"-13	48
14	17Z286D15	· SPRING, Disc	192
15	3631V009	· WASHER, Plain 1/2 in	96
16	20Q260D332	· SCREW, Hex Hd Cap 1/2-13 x 2-1/2 in	24
17	20Q260D330	· SCREW, Hex Hd Cap 1/2-13 x 2 in	24
18	79P431D23	· BAR, Bus	3
19	20Q260D345	· SCREW, Hex Hd Cap 1/2-13UNC x 7 in	4
20	3616V011	· WASHER, Lock 1/2 in	4
21	3631V009	· WASHER, Plain 1/2 in	4
22	16H3867	· CLAMP, Support	4
23	16F7326	· CHANNEL, Insulating	4
24	18F2129D17	· SPACER, 5-9/16 in	4
	21Z808	· COMPOUND, Electrical Joint (Not Illustrated)	1



BUS BAR SUBASSEMBLY

NOTE:
USE 2-1/4 IN. BRASS
CAP SCREWS (22) TO
ATTACH ITEMS 16,17 AND
18 TO MAIN BUS BARS
AND CABINET CONNECTIONS.
USE 2 IN. BRASS CAP
SCREWS (23) TO ATTACH
ITEM 24.



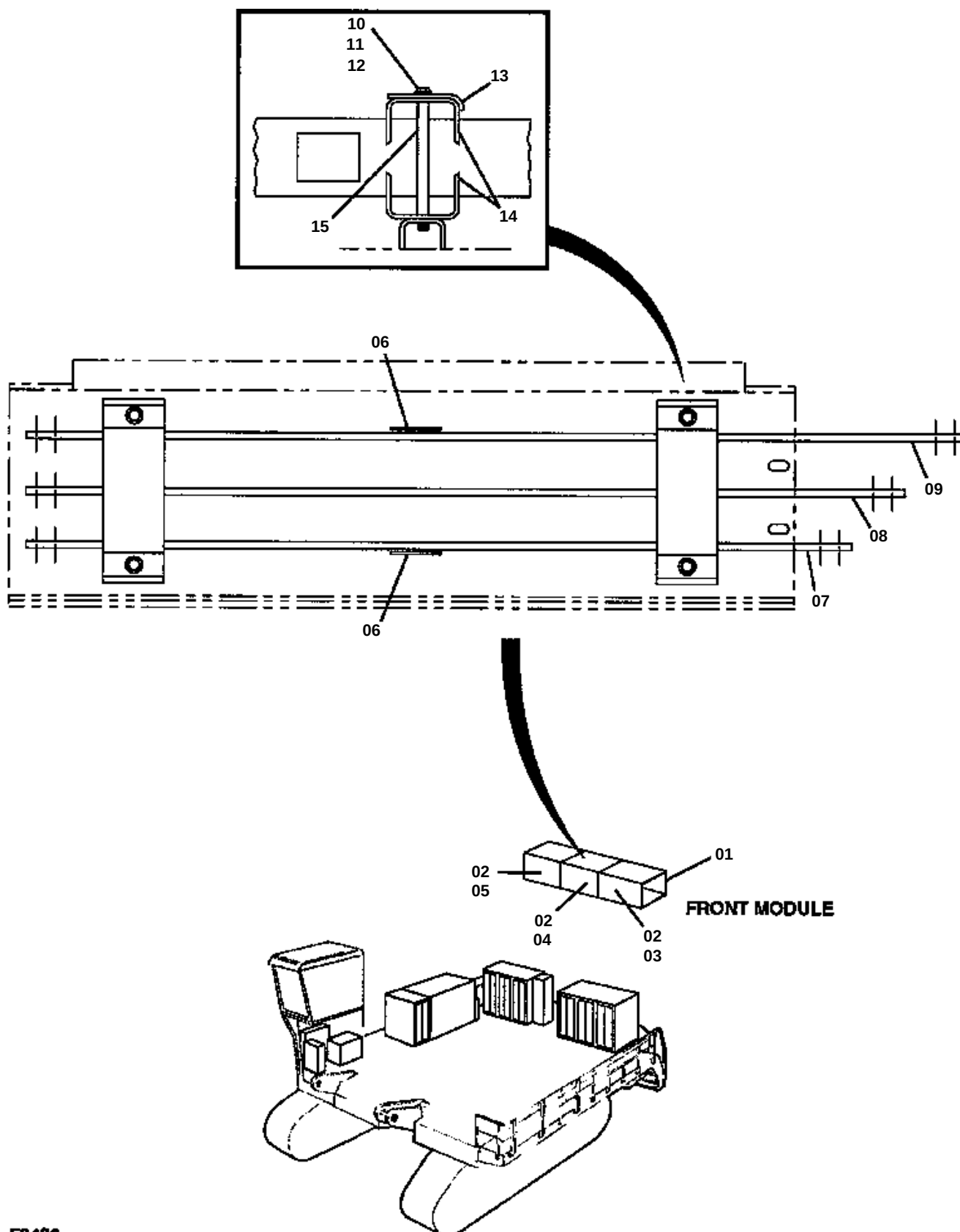
F3443

BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979N196F1	BUS BAR SUBASSEMBLY	
01	79J145F1	· MODULE, Bus Bar	1
02	20Z2054D24	· · SCREW, Hex Hd 1/4-28UNF x 3/8 in	19
03	87N469	· · COVER	1
04	87N470	· · COVER	1
05	87N472	· · COVER	1
06	79F5093D19	· BAR, Bus	1
07	79F5093D20	· BAR, Bus	1
08	79F5093D21	· BAR, Bus	1
09	32Q1812	· DECAL, Danger	2
10	16F7326	· CHANNEL, Insulating	4
11	16H3867	· CLAMP, Support	4
12	20Q260D345	· SCREW, Hex Hd Cap 1/2-13UNC x 7 in	4
13	3616V011	· WASHER, Lock 1/2 in	4
14	3631V009	· WASHER, Plain 1/2 in	4
15	18F2129D17	· SPACER, 5-9/16 in	4
16	79F5073D1	· BAR, Bus	1
17	79F5073D2	· BAR, Bus	1
18	79F5073D3	· BAR, Bus	1
19	20H1617D45	· NUT, Hex 1/2"-13	48
20	17Z286D15	· SPRING, Disc	192
21	3631V009	· WASHER, Plain 1/2 in	96
22	20Q260D332	· SCREW, Hex Hd Cap 1/2-13UNC x 2-1/2 in	24
23	20Q260D330	· SCREW, Hex Hd Cap 1/2-13 x 2 in	24
24	79P431D23	· BAR, Bus	3
	21Z808	· COMPOUND, Electrical Joint (Not Illustrated)	1



BUS BAR SUBASSEMBLY



F3439



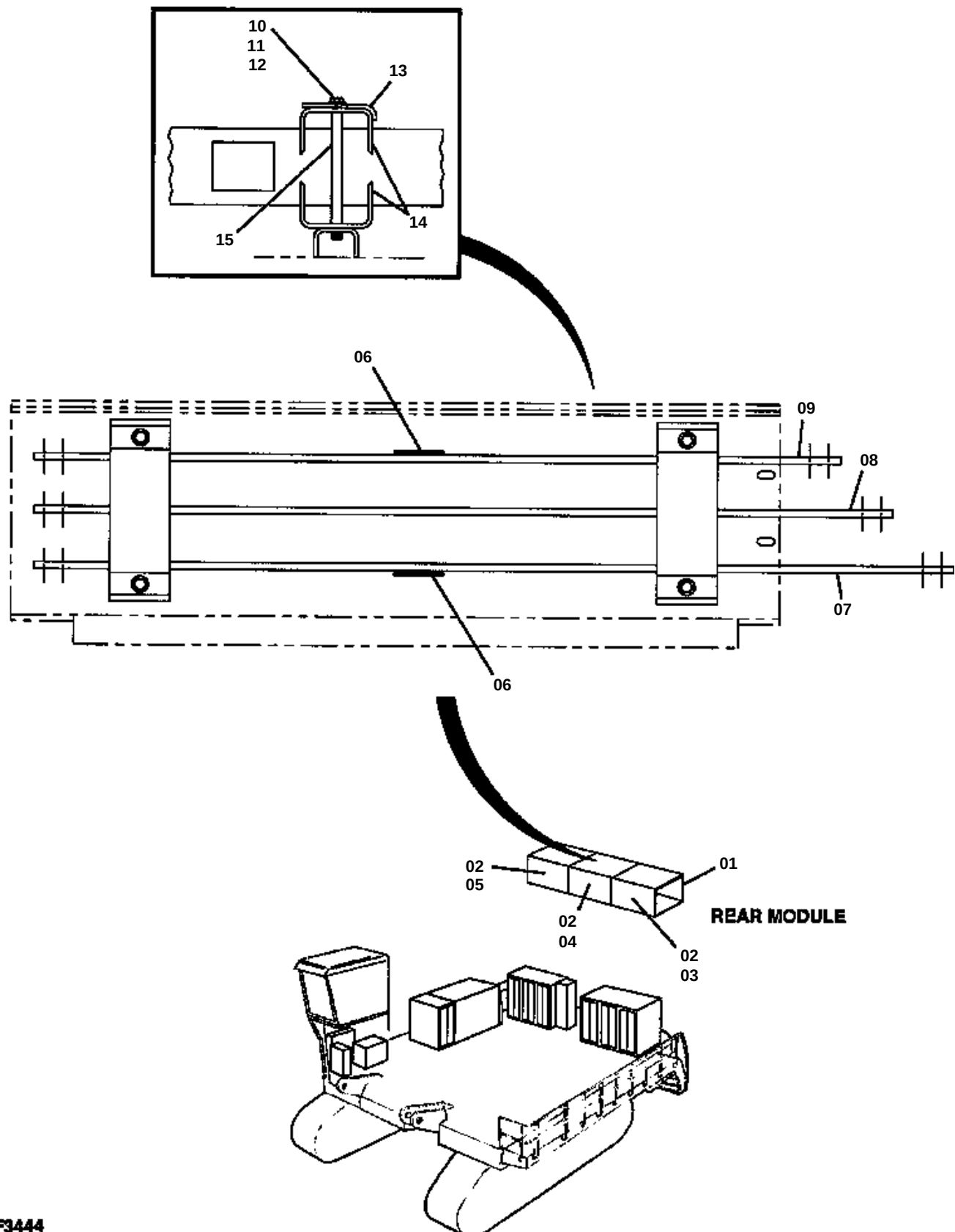
Machine Serial Number: **4184**

BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979N190F1	BUS BAR SUBASSEMBLY	
01	79N201F1	· MODULE, Bus Bar	1
02	20Z2054D24	· · SCREW, Hex Hd 1/4-28UNF x 3/8 in	12
03	87N467D1	· · COVER	1
04	87N468	· · COVER	1
05	87N467D2	· · COVER	1
06	32Q1812	· DECAL, Danger	2
07	79F5093D28	· BAR, Bus	1
08	79F5093D27	· BAR, Bus	1
09	79F5093D12	· BAR, Bus	1
10	20Q260D347	· SCREW, Hex Hd Cap 1/2-13UNC x 8 in	4
11	3616V011	· WASHER, Lock 1/2 in MPC	4
12	3631V009	· WASHER, Plain 1/2 in MPC	4
13	16H3867	· SUPPORT, Bus Bar Clamp	4
14	16F7326	· CHANNEL, Insulating	4
15	18F2129D1	· SPACER, 6-9/16 in	4



BUS BAR SUBASSEMBLY



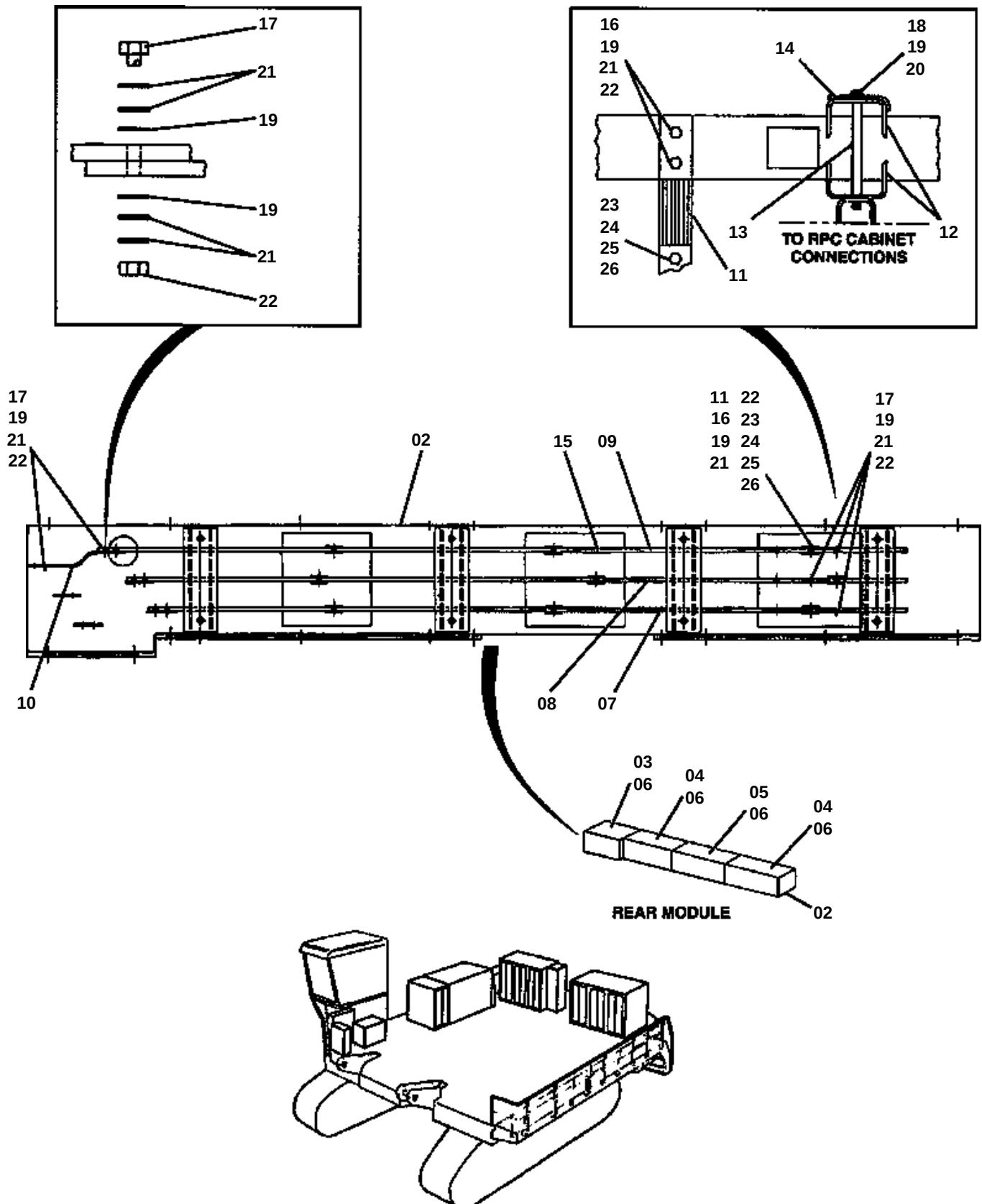
F3444

BUS BAR SUBASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	979N191F1	BUS BAR SUBASSEMBLY	
01	79N202F1	• MODULE, Bus Bar	1
02	20Z2054D24	• • SCREW, Hex Hd 1/4-28UNF x 3/8 in	12
03	87N467D2	• • COVER	1
04	87N468	• • COVER	1
05	87N467D1	• • COVER	1
06	32Q1812	• DECAL, Danger	2
07	79F5093D12	• BAR, Bus	1
08	79F5093D27	• BAR, Bus	1
09	79F5093D28	• BAR, Bus	1
10	20Q260D347	• SCREW, Hex Hd Cap 1/2-13UNC x 8 in	4
11	3616V011	• WASHER, Lock 1/2 in MPC	4
12	3631V009	• WASHER, Plain 1/2 in MPC	4
13	16H3867	• SUPPORT, Bus Bar Clamp	4
14	16F7326	• CHANNEL, Insulating	4
15	18F2129D1	• SPACER, 6-9/16 in	4



BUS BAR SUB-ASSEMBLY

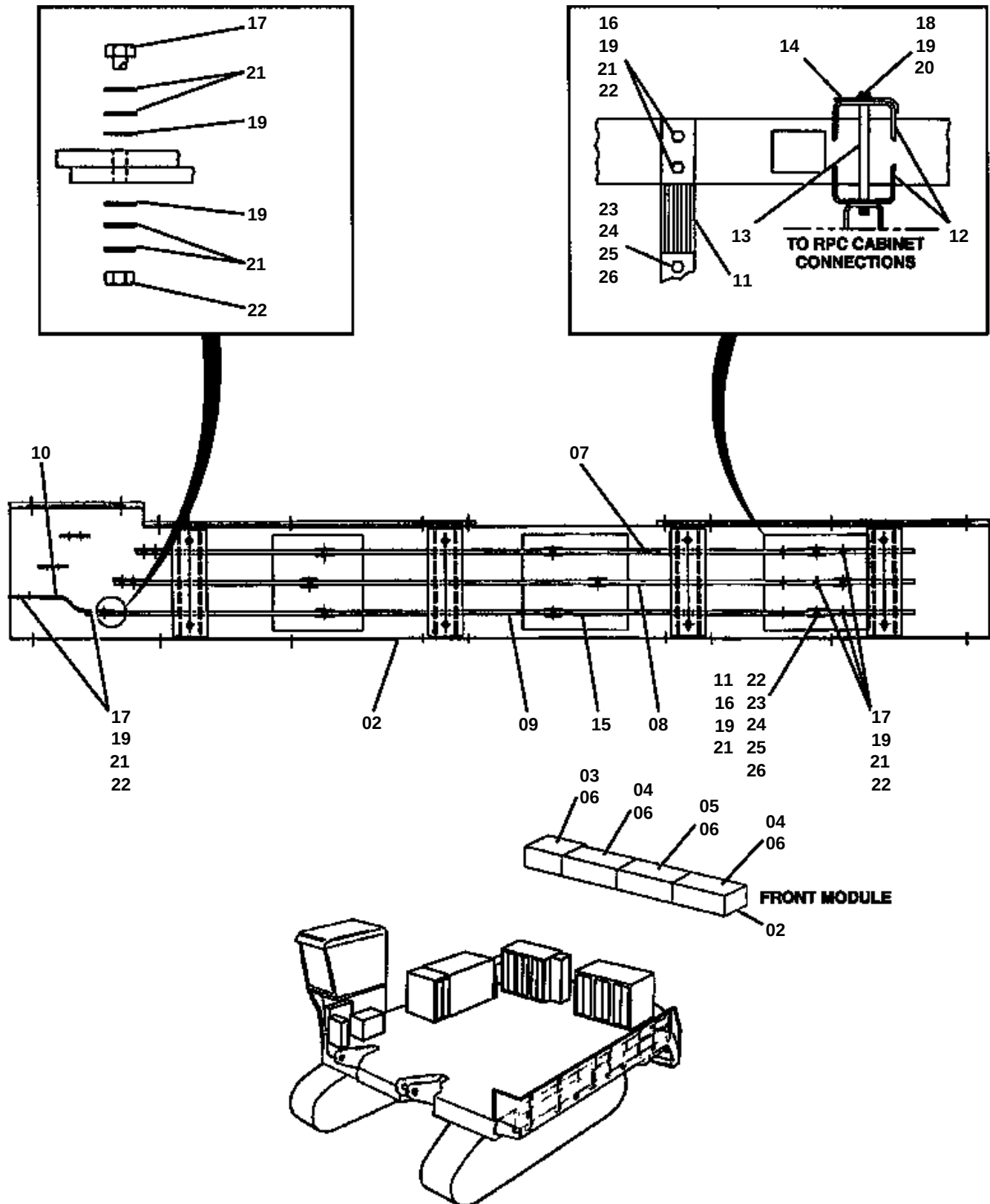


F3445B

BUS BAR SUB-ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	R26665F1	BUS BAR SUB-ASSEMBLY	
01	R27203F1	· MODULE, Bus Bar	1
02	R27203D1	· · MODULE, Bus Bar Base	1
03	R27474D1	· · COVER	1
04	R26047D1	· · COVER	2
05	R28323D1	· · COVER	1
06	20Z1703D30	· · SCREW, Fl Lock 1/4-20UNC x 1/2 in	21
07	R27958D1	· BAR, Bus	1
08	R27958D2	· BAR, Bus	1
09	R27958D3	· BAR, Bus	1
10	79P437D3	· BUS BAR, Flexible	6
11	16F7325D1	· BUS BAR, Flexible	18
12	16F7326	· CHANNEL, Insulating	8
13	18F2129D17	· SPACER, 5-9/16 in	8
14	16H3867	· CLAMP, Support	8
15	32Q1812	· DECAL, Danger	3
16	20Q260D331	· SCREW, Hex Hd Cap 1/2-13UNC x 2-1/4 in	9
17	20Q260D330	· SCREW, Hex Hd Cap 1/2-13UNC x 2 in	36
18	20Q260D345	· SCREW, Hex Hd Cap 1/2-13UNC x 7 in	8
19	3631V009	· WASHER, Plain 1/2 in	98
20	3616V011	· WASHER, Lock 1/2 in	6
21	17Z286D15	· SPRING, Disc 1/2 in	180
22	20H1617D45	· NUT, Hex Self-Lock 1/2-13UNC	45
23	20Q260D262	· SCREW, Hex Hd Cap 3/8-16 x 1-3/4 in	9
24	3631V007	· WASHER, Plain 3/8 in	18
25	17Z286D9	· SPRING, Disc 3/8 in	36
26	20H1617D44	· NUT, Hex Self Lock 3/8-16	9

BUS BAR SUB-ASSEMBLY



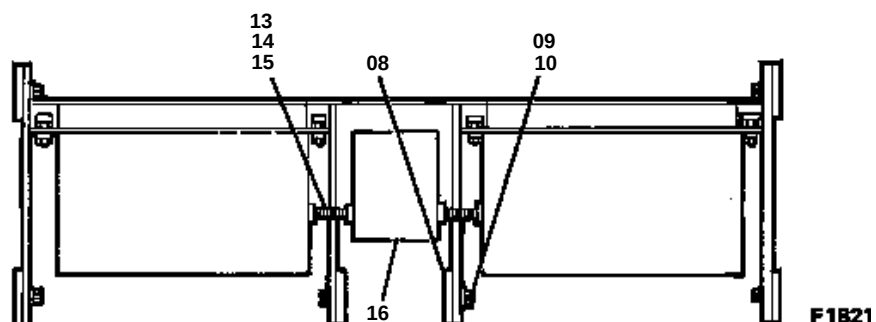
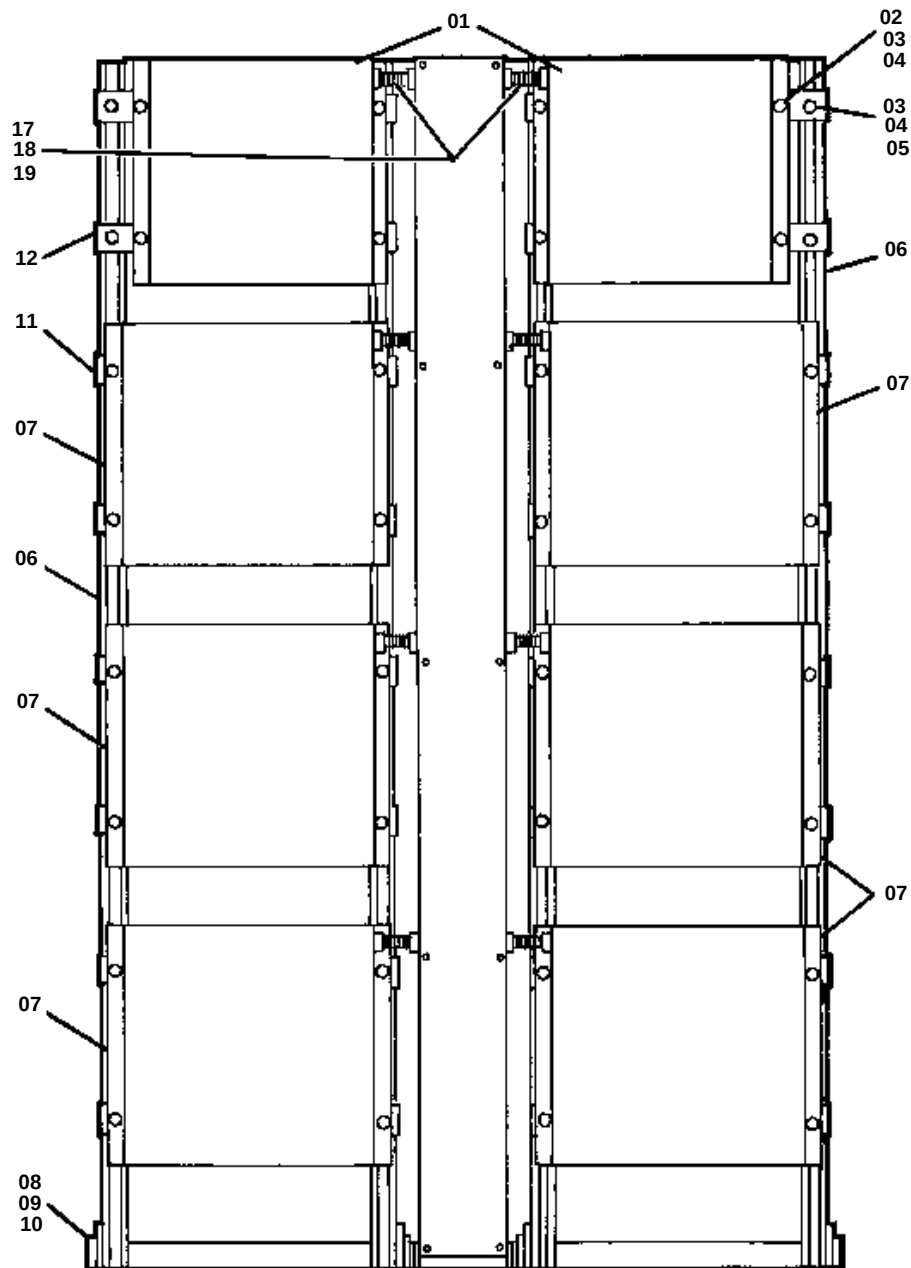
F3445C

BUS BAR SUB-ASSEMBLY

REF	PART NO.	DESCRIPTION	QTY
	R26665F2	BUS BAR SUB-ASSEMBLY	
01	R27203F2	· MODULE, Bus Bar	1
02	R27203D2	· · MODULE, Bus Bar Base	1
03	R27474D2	· · COVER	1
04	R26047D1	· · COVER	2
05	R28323D1	· · COVER	1
06	20Z1703D30	· · SCREW, Fl Lock 1/4-20UNC x 1/2 in	21
07	R27958D1	· BAR, Bus	1
08	R27958D2	· BAR, Bus	1
09	R27958D3	· BAR, Bus	1
10	79P437D3	· BUS BAR, Flexible	6
11	16F7325D1	· BUS BAR, Flexible	18
12	16F7326	· CHANNEL, Insulating	8
13	18F2129D17	· SPACER, 5-9/16 in	8
14	16H3867	· CLAMP, Support	8
15	32Q1812	· DECAL, Danger	3
16	20Q260D331	· SCREW, Hex Hd Cap 1/2-13UNC x 2-1/4 in	9
17	20Q260D330	· SCREW, Hex Hd Cap 1/2-13UNC x 2 in	36
18	20Q260D345	· SCREW, Hex Hd Cap 1/2-13UNC x 7 in	8
19	3631V009	· WASHER, Plain 1/2 in	98
20	3616V011	· WASHER, Lock 1/2 in	6
21	17Z286D15	· SPRING, Disc 1/2 in	180
22	20H1617D45	· NUT, Hex Self-Lock 1/2-13UNC	45
23	20Q260D262	· SCREW, Hex Hd Cap 3/8-16 x 1-3/4 in	9
24	3631V007	· WASHER, Plain 3/8 in	18
25	17Z286D9	· SPRING, Disc 3/8 in	36
26	20H1617D44	· NUT, Hex Self Lock 3/8-16	9



RESISTOR, DIPPER TRIP



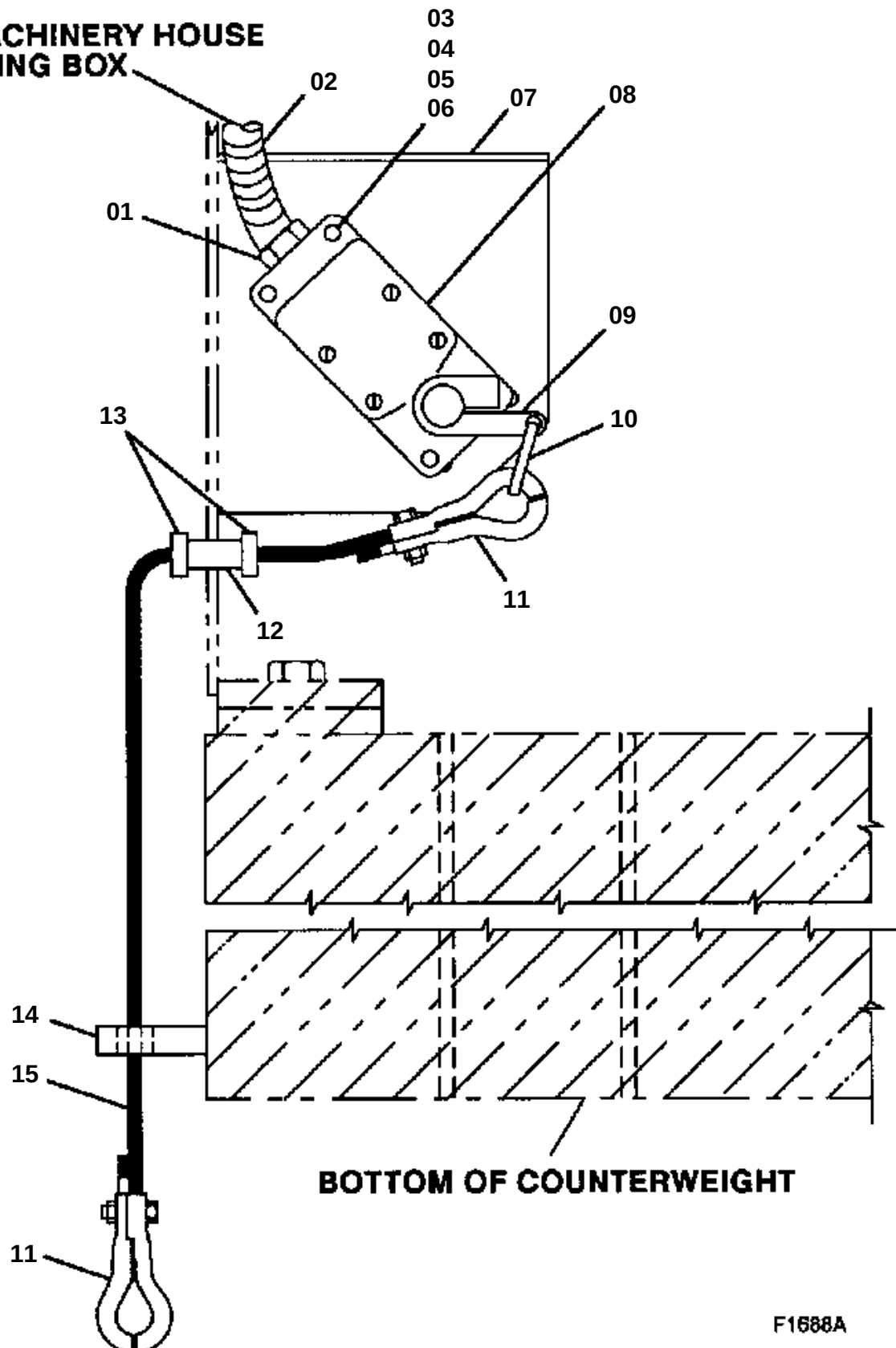
RESISTOR, DIPPER TRIP

REF	PART NO.	DESCRIPTION	QTY
	100J6246F3	RESISTOR, DIPPER TRIP	
01	R25049D1	• RESISTOR, Slack	2
02	20Q260D251	• SCREW, Hex Hd Cap 3/8-16UNC x 3/8 in	4
03	20Q270D24	• NUT, Hex 3/8-16UNC	36
04	3616V009	• WASHER, Lock 3/8 in MPC	36
05	20Z1271D6	• NUT, Stud	32
06	16J1508	• RACK, Resistor	1
07	80Q215	• RESISTOR, Trip	6
08	16N3344D16	• PAD, Mounting	6
09	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC x 1-1/4 in	6
10	3636V011	• WASHER, Lock 1/2 in	6
11	27T2524	• BAR, Mounting	12
12	27T2523	• BAR, Mounting	4
13	0906V003	• BUSHING	16
14	87N253D1	• NIPPLE, 1"O D	6
15	0944V003	• NUT, Lock 1 in	30
16	14J1703F1	• BOX, Pull	1
17	87N254D5	• NIPPLE	2
18	0906V004	• BUSHING	4
19	0944V004	• LOCKNUT	8
20	87Z246D3	• SEAL, Knockout (Not Shown)	8
21	79U2522D22	• TERMINAL, Solderless (Not Shown)	30
22	20Q260D193	• SCREW, Hex Hd Cap 1/4-20UNC x 7/8 (Not Shown)	24
23	2047V001	• NUT, Hex 1/4-20UNC x 1 in (Not Shown)	24
24	17Z286D3	• SPRING, Disc (Not Shown)	24
25	3608V008	• WASHER, Flat 1/4 in (Not Shown)	24



SWITCH, SIGNAL

TO MACHINERY HOUSE
LIGHTING BOX



BOTTOM OF COUNTERWEIGHT

F1688A



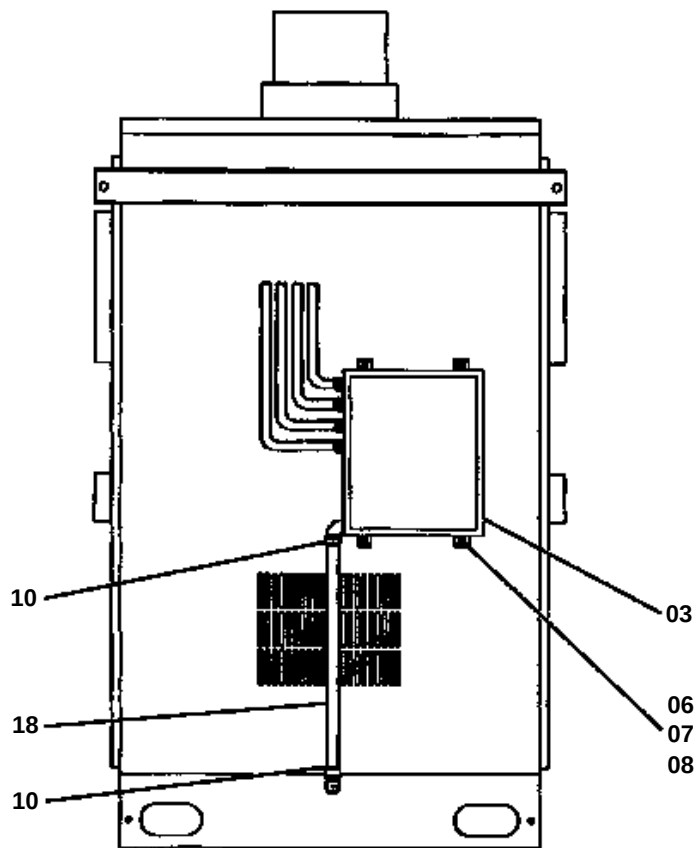
Machine
Serial Number: **4184**

SWITCH, SIGNAL

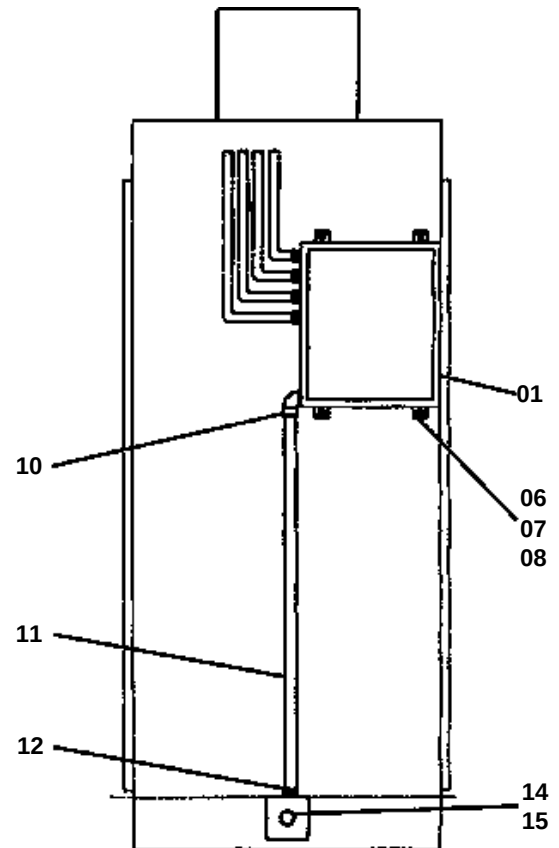
REF	PART NO.	DESCRIPTION	QTY
	100J6173F1	SWITCH, SIGNAL	
01	0916V002	• CONNECTOR, Flex 1/2in	6
02	030413116	• CONDUIT, Flex 1/2ft.	30
03	20Q260D192	• SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in lg	12
04	3631V005	• WASHER, Plain 1/4in	12
05	18Z1732D12	• WASHER, Conical Lock 1/4in	12
06	20Q270D16	• NUT, Hex 1/4-20UNC	12
07	716P190D1	• BRACKET, Switch	3
08	79Q1034	• SWITCH	3
09	79T471	• ARM, Limit Switch Lever	1
10	18Z3580D1	• RING, Split	3
11	30Z129D3	• CLAMP and THIMBLE, Rope	6
12	0929V002	• COUPLING, 1/2in	3
13	0949V004	• ADDLET, 1/2in	6
14	18N2540D1	• PLATE	3
15	30Z411D48	• ROPE, Wire 1/4in x 10ft 0in lg	3



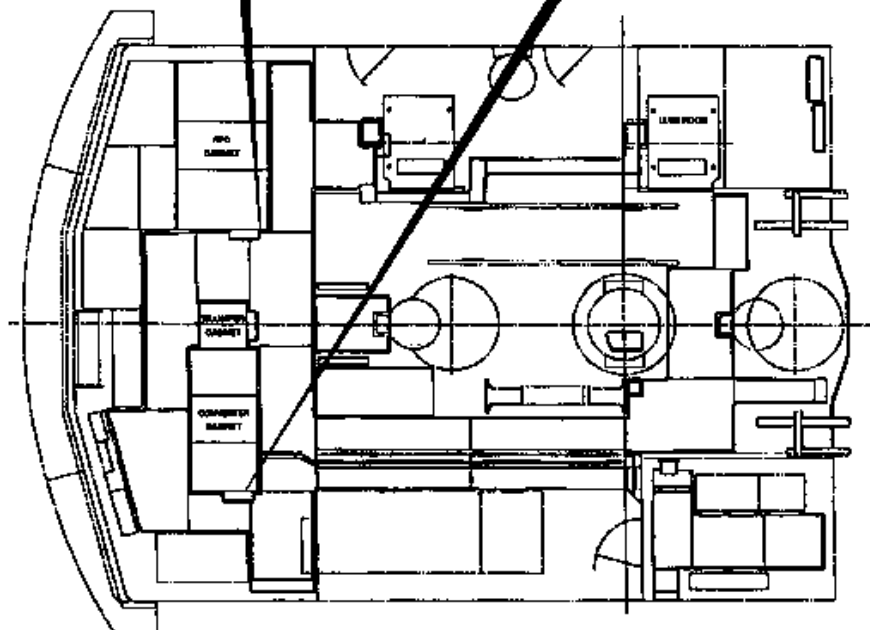
INSTALLATION, REMOTE I/O



LEFT SIDE VIEW
OF RPC CABINET



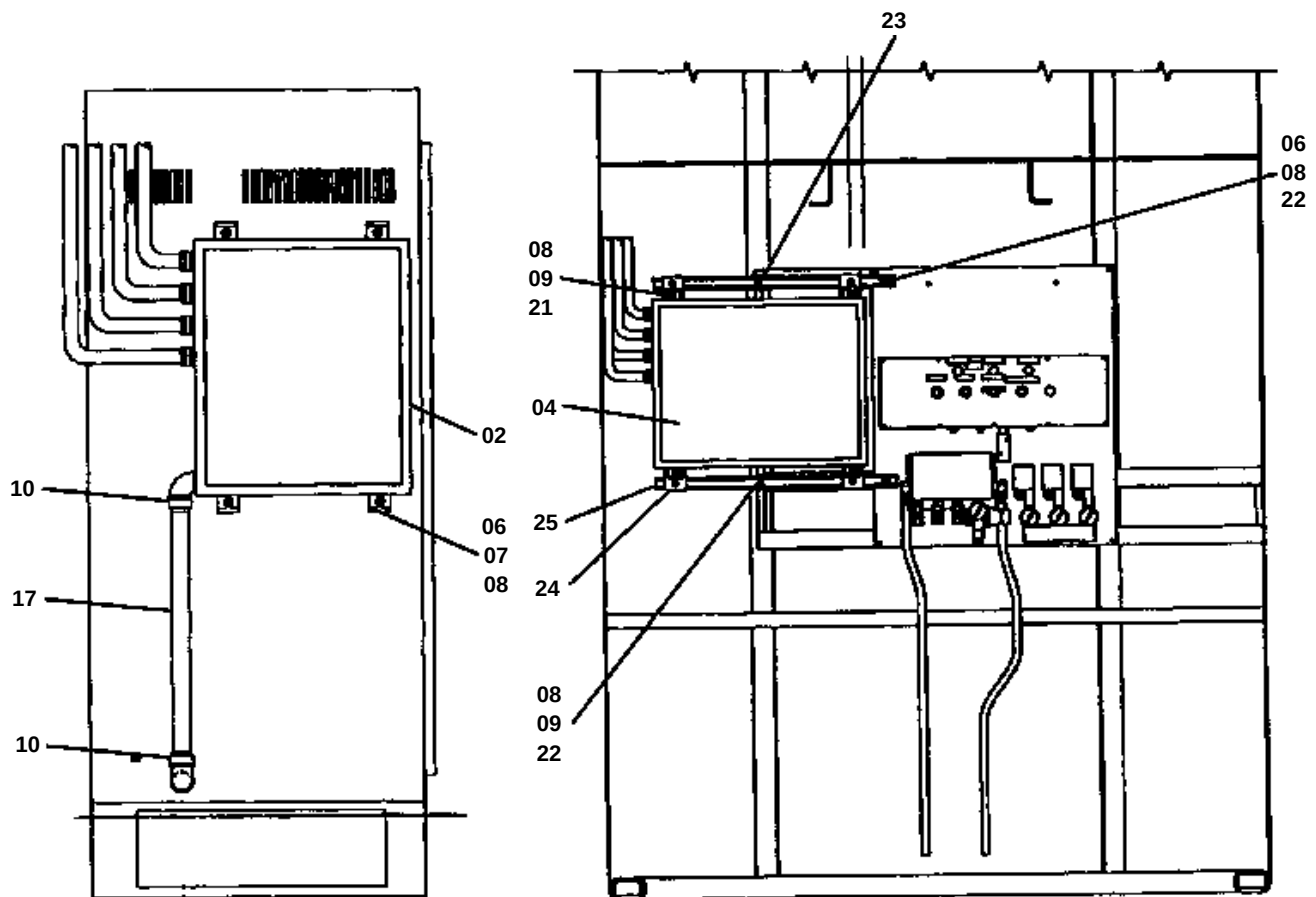
LEFT SIDE VIEW OF
CONVERTER CABINET



F6583

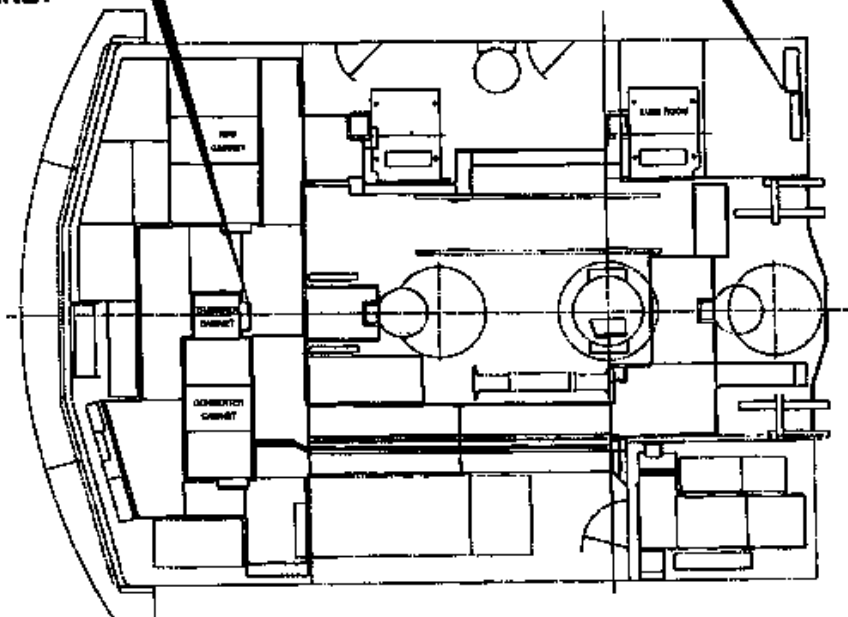


INSTALLATION, REMOTE I/O



LEFT SIDE VIEW
OF TRANSFER
CONTACTOR
CABINET

SIDE VIEW
OF LUBE ROOM



F6583A

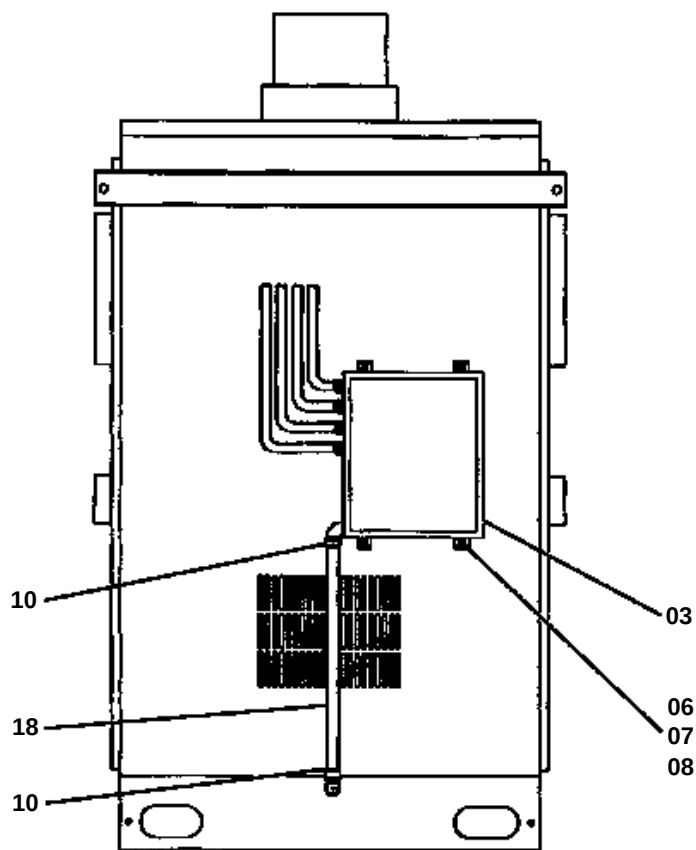


INSTALLATION, REMOTE I/O

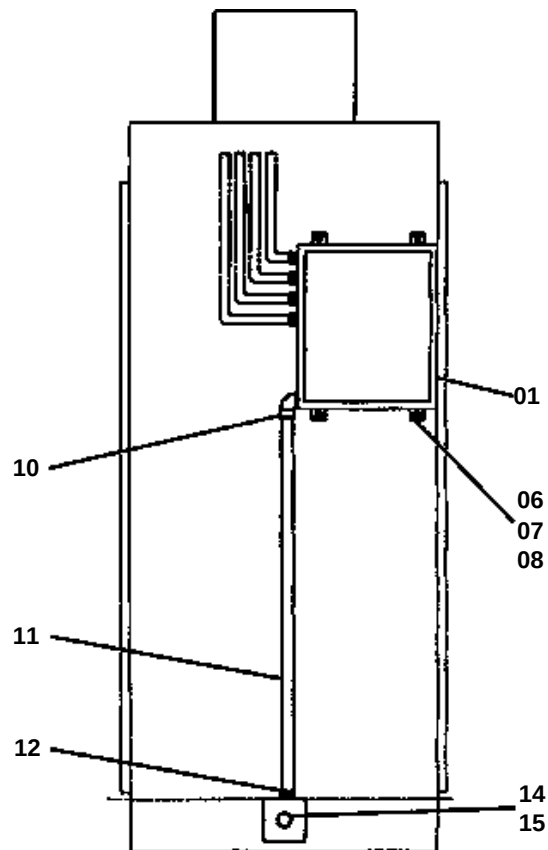
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R18391F1			
01	R16636F1	· REMOTE INPUT/OUTPUT, Converter Cabinet	1	14-64
02		NOT USED		
03		NOT USED		
04		NOT USED		
05		NOT USED		
06	16N3344D15	· PAD, Mounting	4	
07	20Q260D255	· SCREW, Hex Hd Cap 3/8-16 x 5/8 in	5	
08	3616V009	· WASHER, Lock 3/8 in	5	
09		NOT USED		
10	79Z880D7	· SEALTITE, Connector, 90 Degree, 2 in	1	
11	304A13372	· SEALTITE, 2 x 45 in	1	
12	79Z878D7	· SEALTITE, Connector, Straight, 2 in	1	
13		NOT USED		
14	0911V007	· CLAMP, Conduit 2 in	1	
15		NOT USED		
16		NOT USED		
17		NOT USED		
18		NOT USED		
19		NOT USED		
20		NOT USED		
21		NOT USED		
22		NOT USED		
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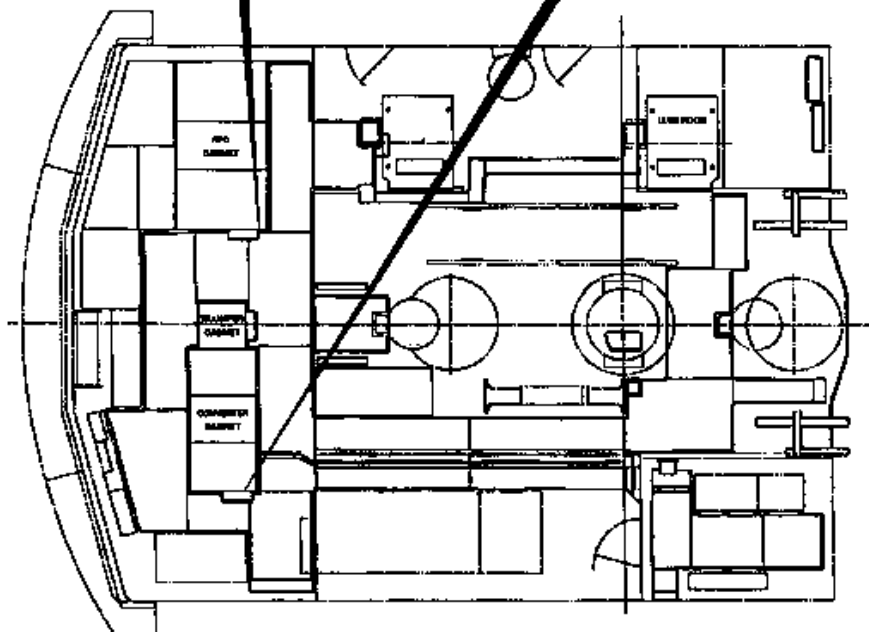
INSTALLATION, REMOTE I/O



LEFT SIDE VIEW
OF RPC CABINET



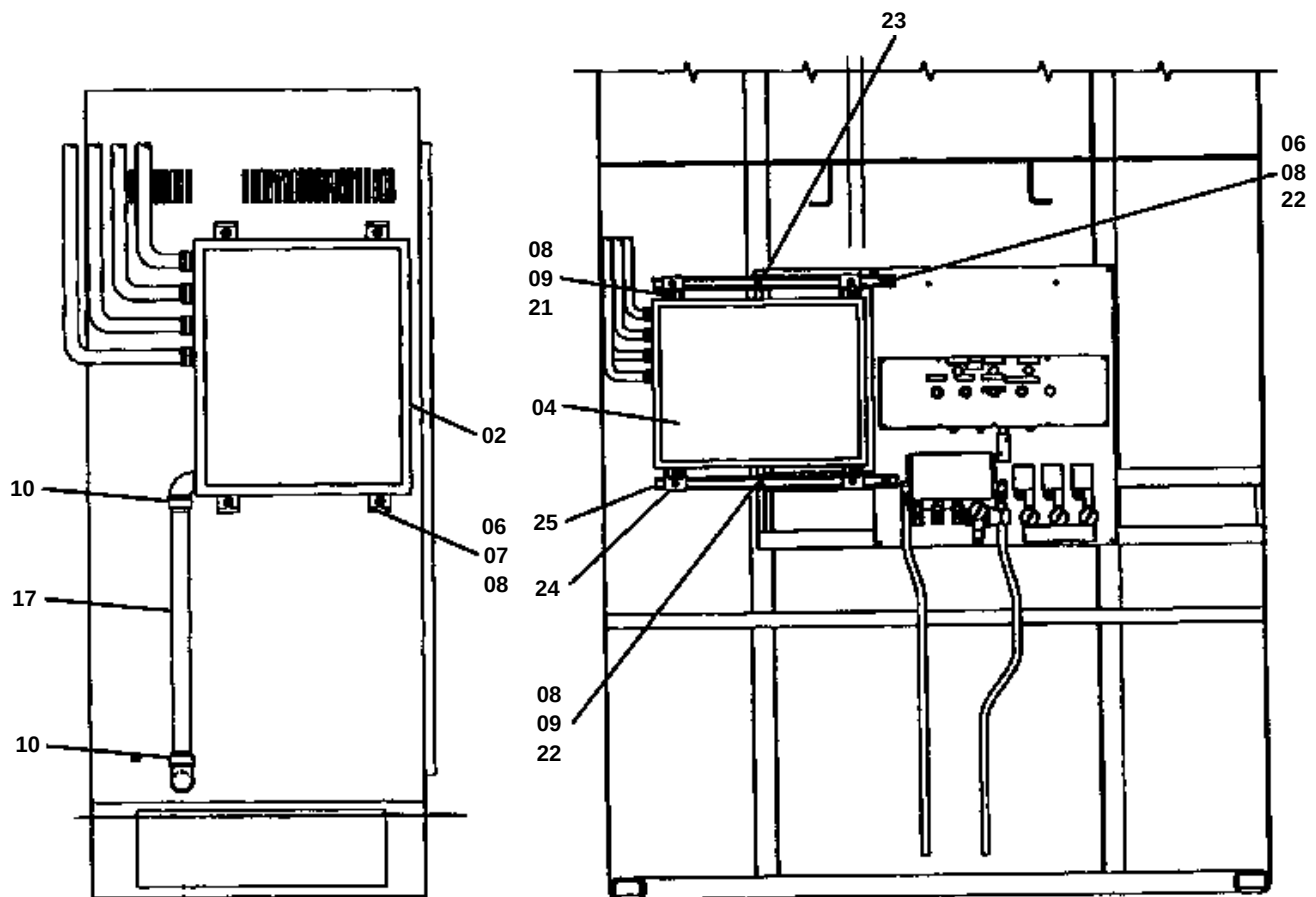
LEFT SIDE VIEW OF
CONVERTER CABINET



F6583

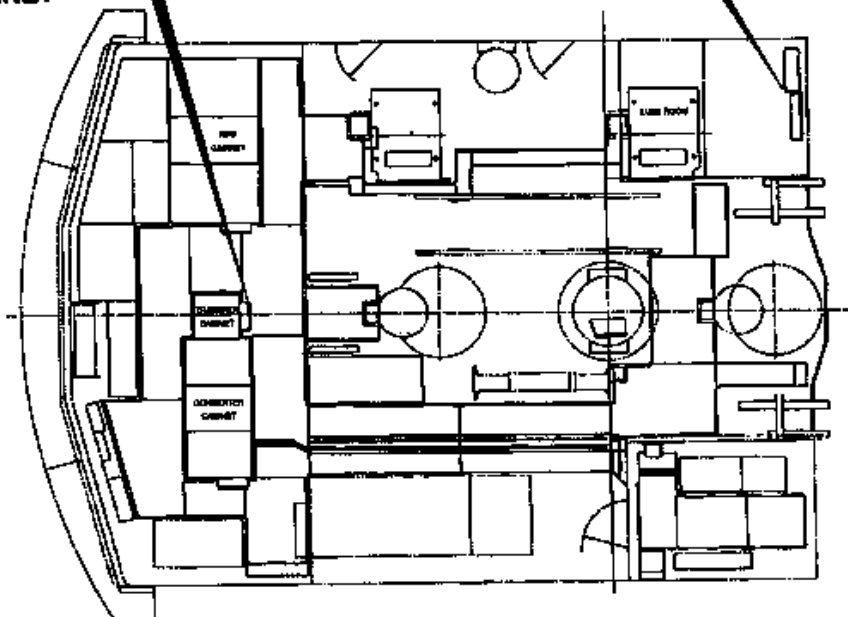


INSTALLATION, REMOTE I/O



LEFT SIDE VIEW
OF TRANSFER
CONTACTOR
CABINET

SIDE VIEW
OF LUBE ROOM



F6583A

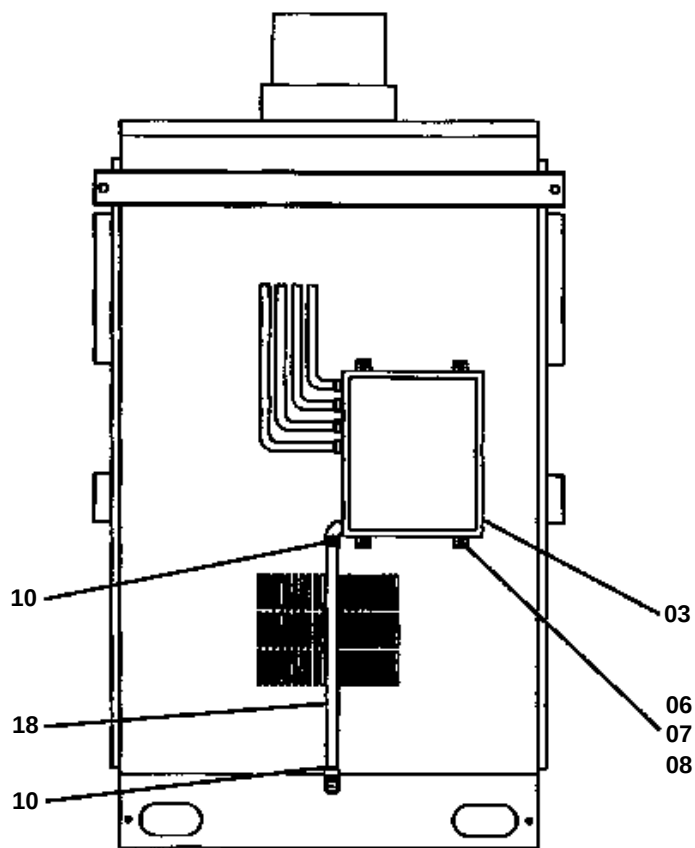


INSTALLATION, REMOTE I/O

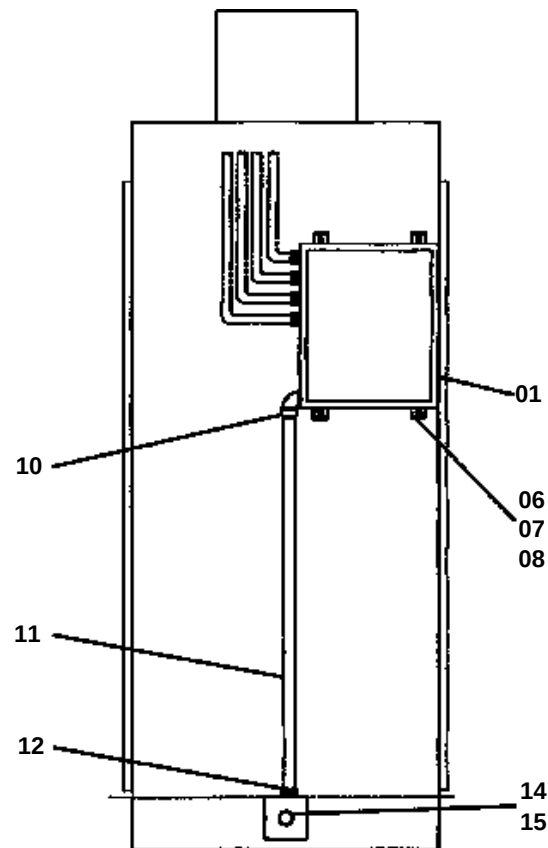
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R18391F2	INSTALLATION, REMOTE I/O		
01		NOT USED		
02	R16636F2	• REMOTE INPUT/OUTPUT, Transfer Cabinet	1	14-65
03		NOT USED		
04		NOT USED		
05		NOT USED		
06	16N3344D15	• PAD, Mounting	4	
07	20Q260D255	• SCREW, Hex Hd Cap 3/8-16 x 5/8 in	4	
08	3616V009	• WASHER, Lock 3/8 in	4	
09		NOT USED		
10	79Z880D7	• SEALTITE, Connector, 90 Degree, 2 in	1	
11		NOT USED		
12	79Z878D7	• SEALTITE, Connector, 2 in	1	
13		NOT USED		
14		NOT USED		
15		NOT USED		
16		NOT USED		
17		NOT USED		
18	304A13372	• SEALTITE, 2 x 24 in	1	
19		NOT USED		
20		NOT USED		
21		NOT USED		
22		NOT USED		
23		NOT USED		
24		NOT USED		
25		NOT USED		
26		NOT USED		
27		NOT USED		
28		NOT USED		
29		NOT USED		



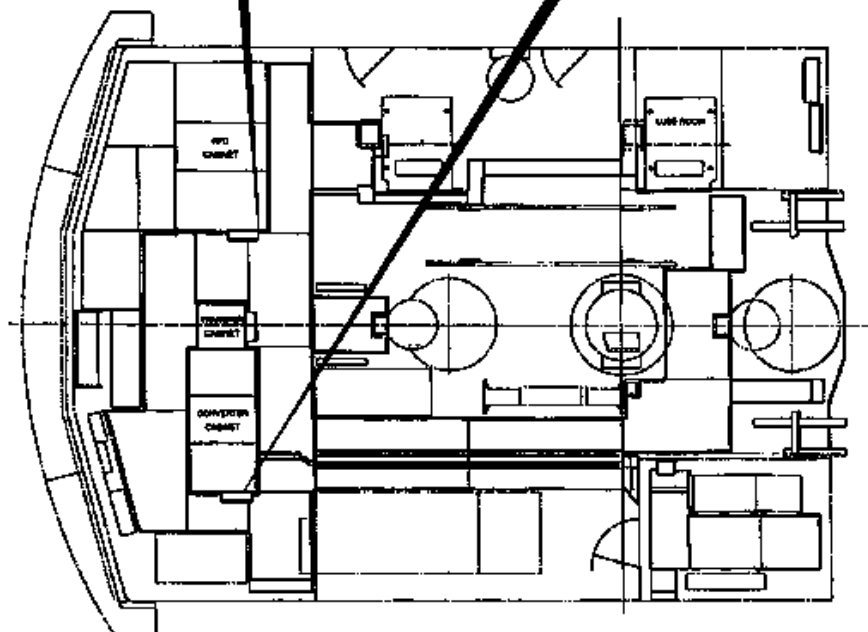
INSTALLATION, REMOTE I/O



**LEFT SIDE VIEW
OF RPC CABINET**



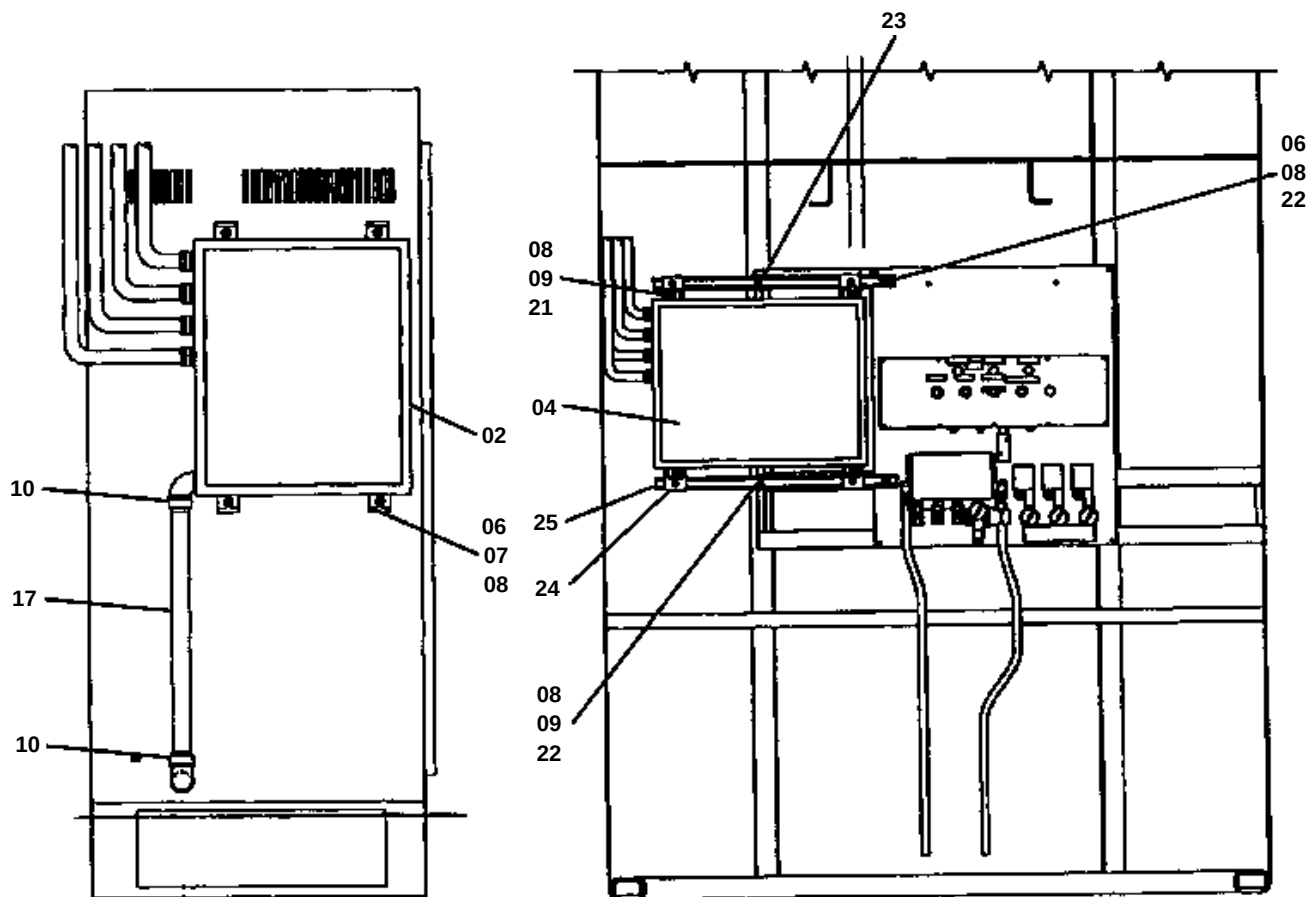
**LEFT SIDE VIEW OF
CONVERTER CABINET**



F8593

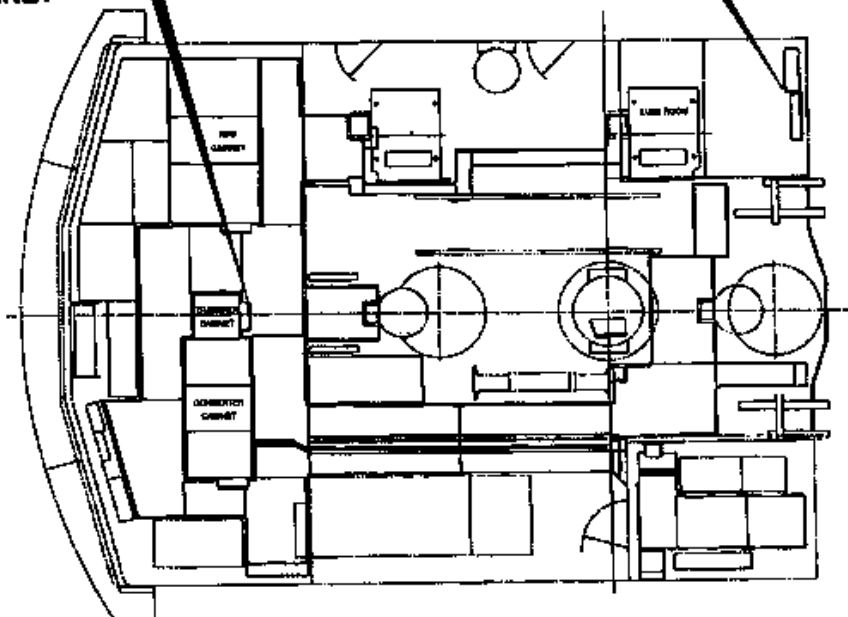


INSTALLATION, REMOTE I/O



LEFT SIDE VIEW
OF TRANSFER
CONTACTOR
CABINET

SIDE VIEW
OF LUBE ROOM



F6583A

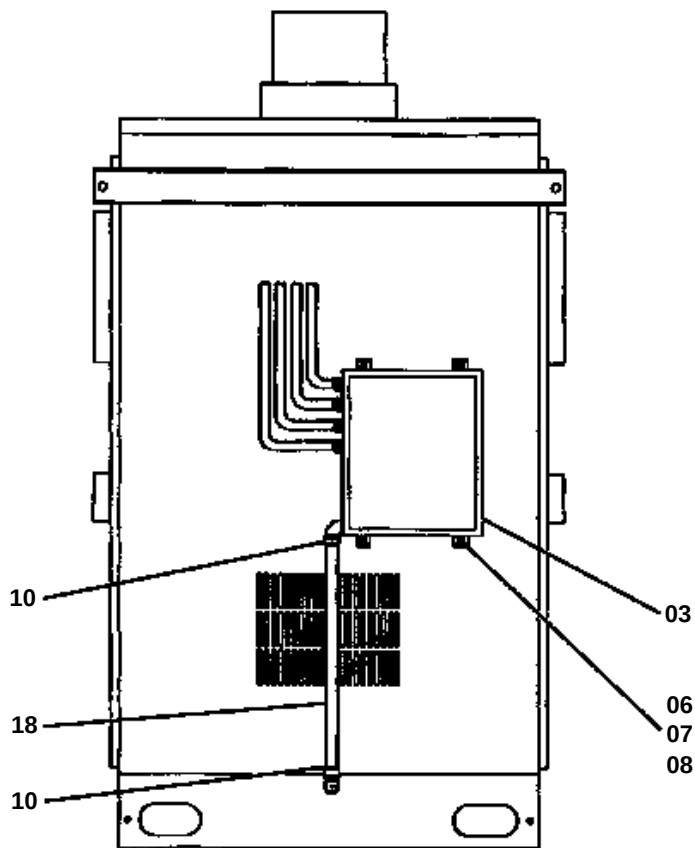


INSTALLATION, REMOTE I/O

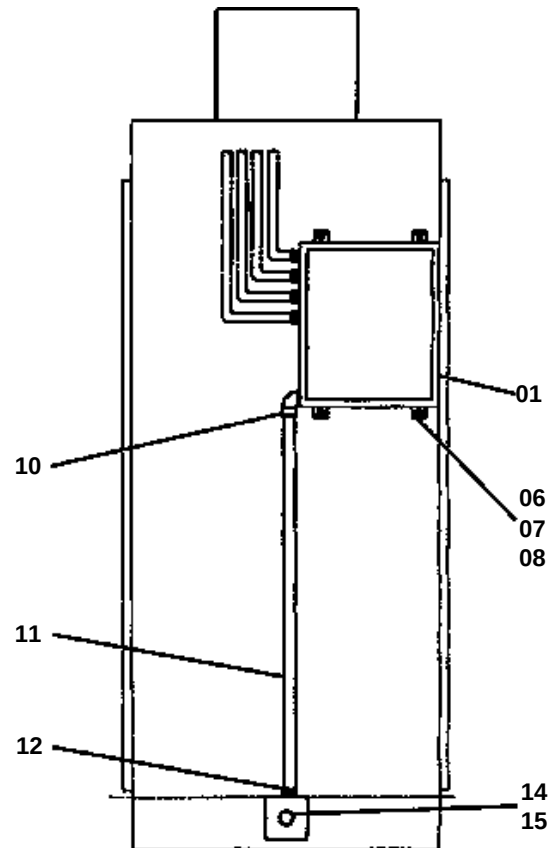
REF	PART NO.	DESCRIPTION	QTY	PAGE
	R18391F3	INSTALLATION, REMOTE I/O		
01		NOT USED		
02		NOT USED		
03	R16636F3	• REMOTE INPUT/OUTPUT, RPC Cabinet	1	14-66
04		NOT USED		
05		NOT USED		
06	16N3344D15	• PAD, Mounting	4	
07	20Q260D255	• SCREW, Hex Hd Cap 3/8-16 x 5/8 in	4	
08	3616V009	• WASHER, Lock 3/8 in	4	
09		NOT USED		
10	79Z880D7	• SEALTITE, Connector, 90 Degree, 2 in	2	
11		NOT USED		
12	79Z878D7	• SEALTITE, Connector, 2 in	1	
13		NOT USED		
14		NOT USED		
15		NOT USED		
16		NOT USED		
17	304A13372	• SEALTITE 2 x 32 in	1	
18		NOT USED		
19		NOT USED		
20		NOT USED		
21		NOT USED		
22		NOT USED		
23		NOT USED		
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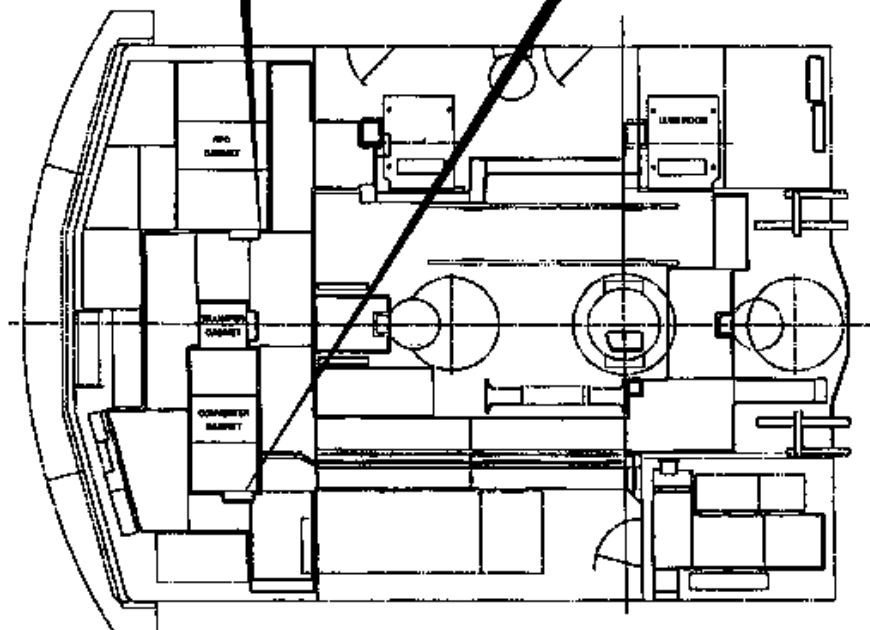
INSTALLATION, REMOTE I/O



**LEFT SIDE VIEW
OF RPC CABINET**



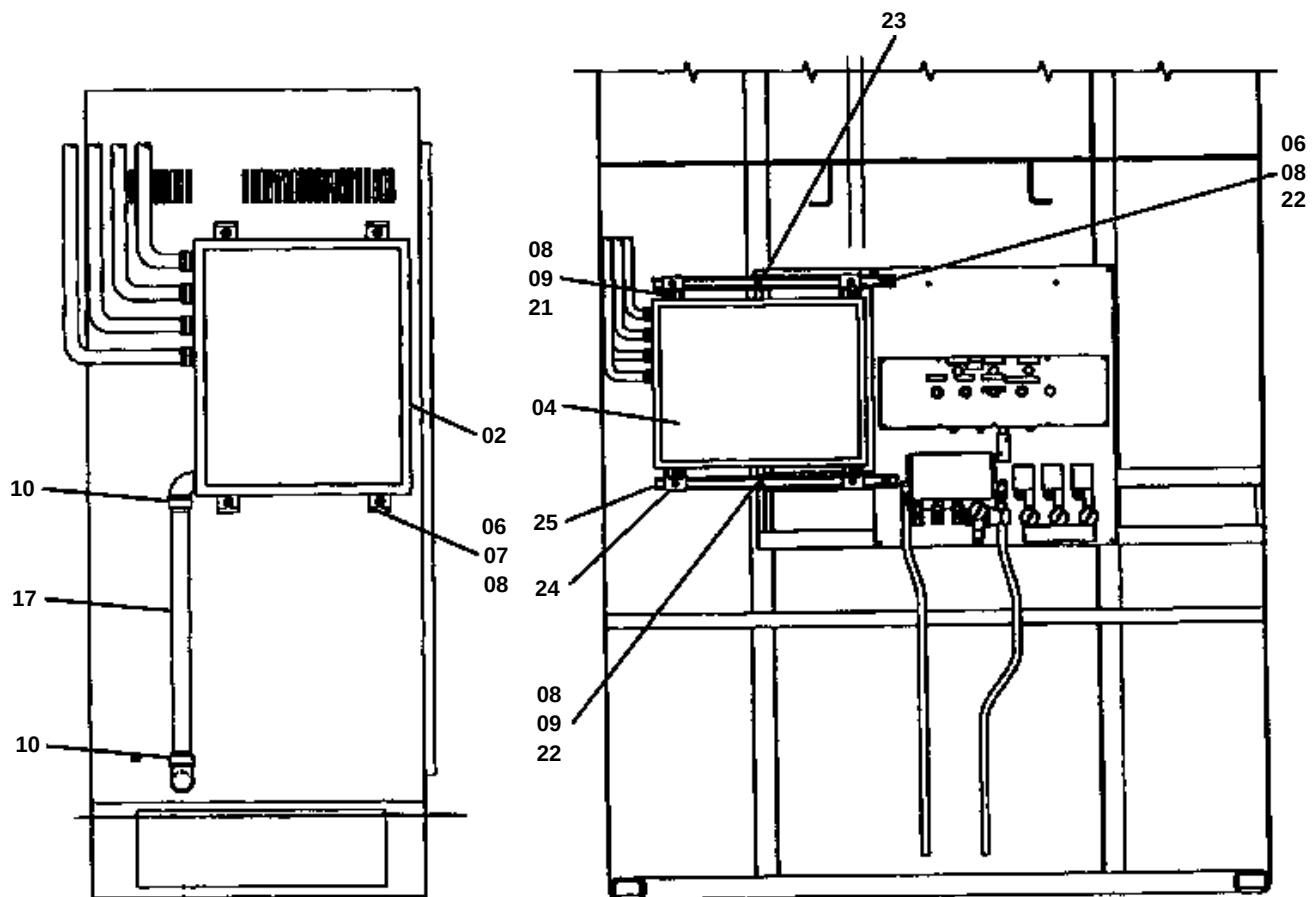
**LEFT SIDE VIEW OF
CONVERTER CABINET**



F6583

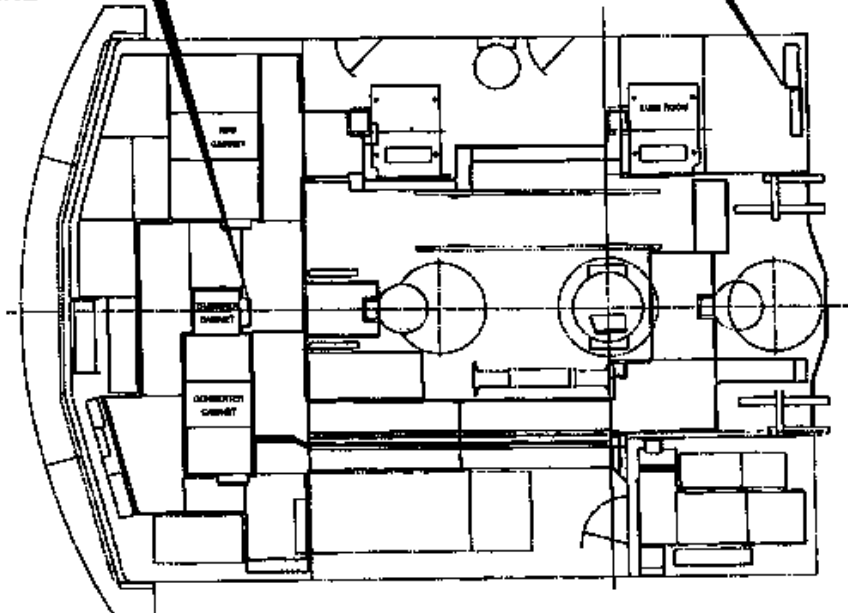


INSTALLATION, REMOTE I/O



LEFT SIDE VIEW
OF TRANSFER
CONTACTOR
CABINET

SIDE VIEW
OF LUBE ROOM



F6583A

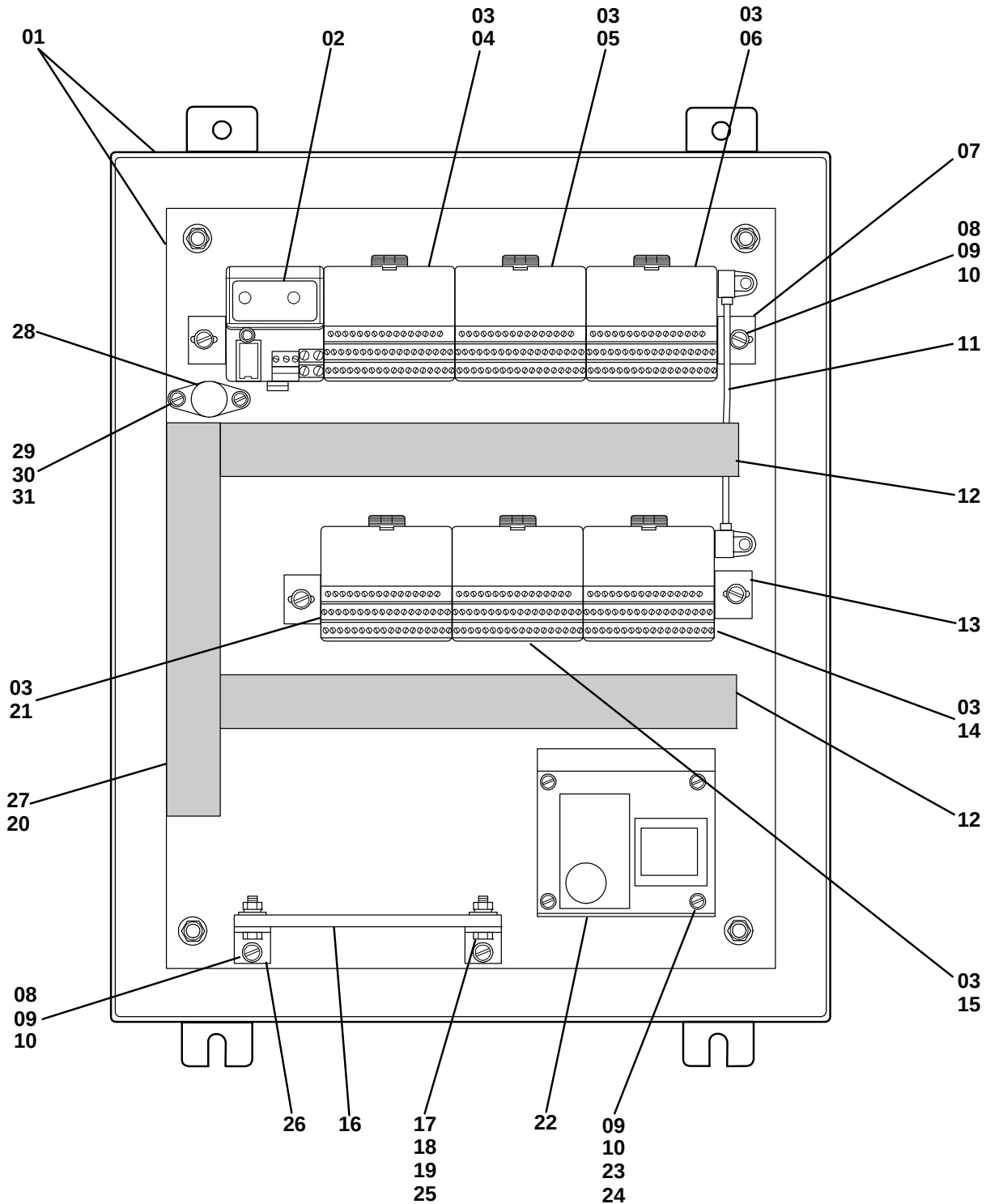


INSTALLATION, REMOTE I/O

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R18391F4	INSTALLATION, REMOTE I/O		
01		NOT USED		
02		NOT USED		
03		NOT USED		
04	R16545F1	• REMOTE INPUT/OUTPUT, Lube Cabinet	1	14-67
05		NOT USED		
06	16N3344D15	• PAD, Mounting	4	
07		NOT USED		
08	3616V009	• WASHER, Lock 3/8 in	13	
09	20Q270D24	• NUT, Hex 3/8-16	8	
10		NOT USED		
11		NOT USED		
12		NOT USED		
13		NOT USED		
14		NOT USED		
15		NOT USED		
16		NOT USED		
17		NOT USED		
18		NOT USED		
19		NOT USED		
20		NOT USED		
21	20Q260D263	• SCREW, Hex Hd Cap 3/8-16 x 2 in	4	
22	20Q260D260	• SCREW, Hex Hd Cap 3/8-16 x 1-1/4 in	8	
23	R28108D1	• PLATE 9/64 x 1-1/2 x 2-1/8	2	
24	R28121D1	• PLATE 1/4 x 3 x 30-21/32	2	
25	R28105D1	• UNISTRUT 1-3/8 x 34 in	AR	
26		NOT USED		
27		NOT USED		
28		NOT USED		
29		NOT USED		



REMOTE INPUT/OUTPUT, CONVERTER CABINET



F5851A



REMOTE INPUT/OUTPUT, CONVERTER CABINET

REF	PART NO.	DESCRIPTION	QTY
	R16636F1	REMOTE INPUT/OUTPUT, CONVERTER CABINET	
01	14Q183D11	· CABINET	1
02	R14217D2	· ADAPTER, Remote I/O	1
03	R14217D14	· BASE, Terminal	6
04	R14217D5	· MODULE, Input, 24 VDC, 16 PT	1
05	R14217D4	· MODULE, Input, 120 VAC, 8 PT	1
06	R14217D4	· MODULE, Input, 120 VAC, 8 PT	1
07	79Q1676D2	· CHANNEL, DIN Rail 16 in	AR
08	0862V094	· SCREW, Pan Hd Mach #10-24UNC x 3/8 in	6
09	3631V004	· WASHER, Plain #10	6
10	3616V005	· WASHER, Lock #10	6
11	R14217D3	· CABLE, Extender	1
12	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 14-1/2 in	AR
13	79Q1676D2	· CHANNEL, DIN Rail 13 in	AR
14	R14217D10	· MODULE, Output, 120 VAC, 8 PT	1
15	R14217D15	· MODULE, Output, 8 PT	1
16	80Z112D11	· HEATER, Cabinet	1
17	20Q260D194	· SCREW, Hex Hd Cap 1/4-20UNC x 1 in	2
18	3631V005	· WASHER, Plain 1/4 in	2
19	3616V007	· WASHER, Lock 1/4 in	2
20	20Z1684D1	· RIVET, Wire Duct Mounting	9
21	R14217D4	· MODULE, Input, 120 VAC, 8 PT	1
22		NOT USED	
23		NOT USED	
24		NOT USED	
25	20Q270D16	· NUT, Hex 1/4-20UNC	2
26	16H5242	· BRACKET, Mounting	2
27	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 13 in	AR
28	89Z904D1	· THERMOSTAT	1
29	0862V061	· SCREW, Pan Hd Mach #6-32UNC	2
30	3631V002	· WASHER, Plain #6	2
31	3616V003	· WASHER, Lock #6	2

This diagram illustrates the exploded view of a 3-phase 4-wire meter assembly. The components are numbered 01 through 31, indicating their relative positions for assembly. The main body (01) houses the meter mechanism (02) and the terminal block (03). The meter mechanism includes three phase coils (04, 05, 06) and a common coil (07). The terminal block (03) features three phase terminals (08, 09, 10) and a common terminal (11). The meter is mounted on a base (12) with four mounting feet (13, 14, 15, 16). The base is secured by four screws (17, 18, 19, 20). The meter is also secured by four screws (21, 22, 23, 24). The terminal block is secured by four screws (25, 26, 27, 28). The meter is also secured by four screws (29, 30, 31, 32).

Page 14-65
Sheet 1

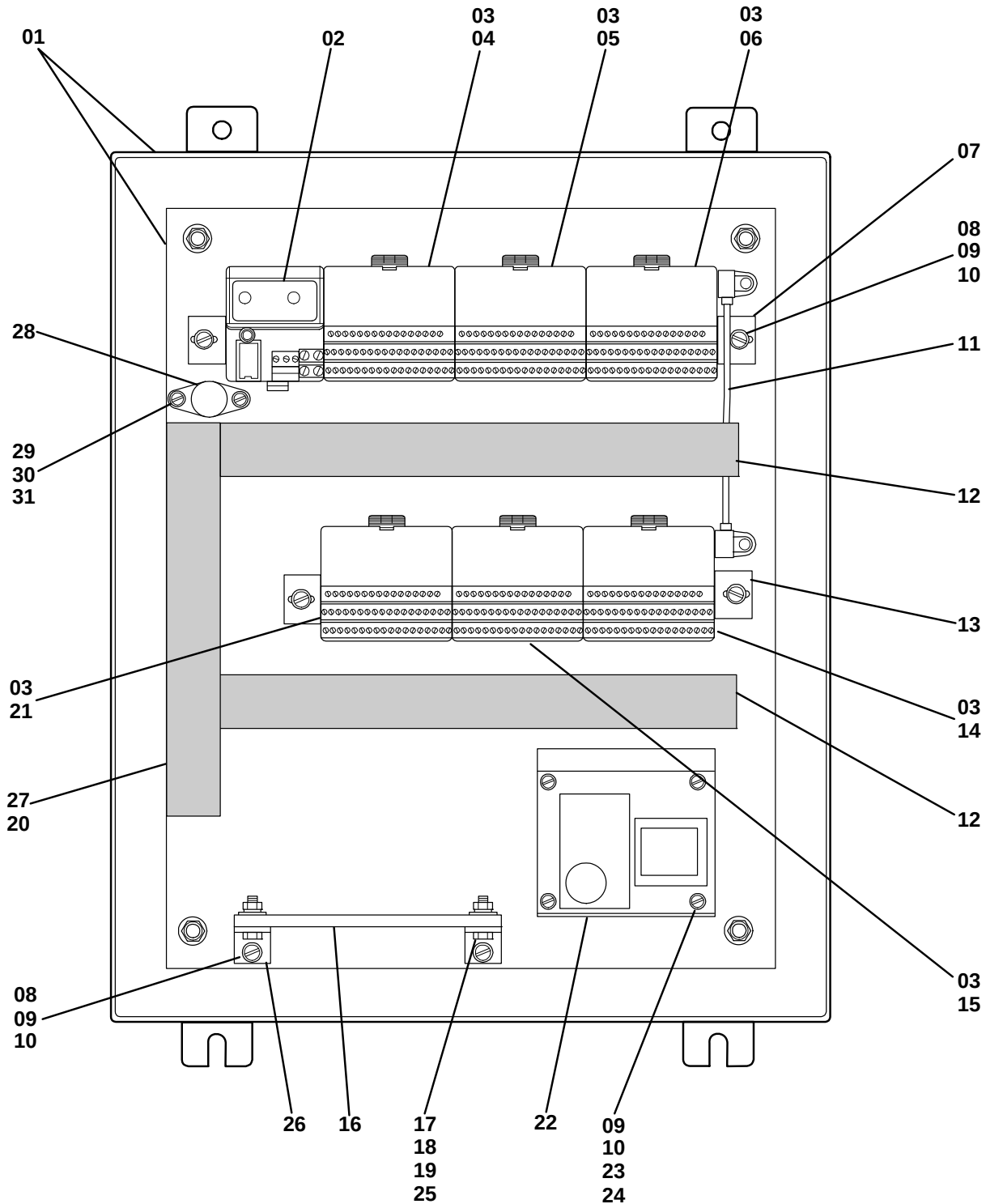


REMOTE INPUT/OUTPUT, TRANSFER CABINET

REF	PART NO.	DESCRIPTION	QTY
	R16636F2	REMOTE INPUT/OUTPUT, TRANSFER CABINET	
01	14Q183D11	· CABINET	1
02	R14217D2	· ADAPTER, Remote I/O	1
03	R14217D14	· BASE, Terminal	6
04	R14217D4	· MODULE, Input, 120 VAC, 8 PT	1
05	R14217D4	· MODULE, Input, 120 VAC, 8 PT	1
06	R14217D10	· MODULE, Output, 120 VAC, 8 PT	1
07	79Q1676D2	· CHANNEL, DIN Rail 16 in	AR
08	0862V094	· SCREW, Pan Hd Mach #10-24UNC x 3/8 in	6
09	3631V004	· WASHER, Plain #10	10
10	3616V005	· WASHER, Lock #10	10
11	R14217D3	· CABLE, Extender	1
12	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 14-1/2 in	AR
13	79Q1676D2	· CHANNEL, DIN Rail 13 in	AR
14	R14217D10	· MODULE, Output, 120 VAC, 8 PT	1
15	R14217D17	· MODULE, Input, RTD, 120VAC, 8 PT	1
16	80Z112D11	· HEATER, Cabinet	1
17	20Q260D194	· SCREW, Hex Hd Cap 1/4-20UNC x 1 in	2
18	3631V005	· WASHER, Plain 1/4 in	2
19	3616V007	· WASHER, Lock 1/4 in	2
20	20Z1684D1	· RIVET, Wire Duct Mounting	9
21	R14217D17	· MODULE, Input, RTD, 120VAC, 8 PT	1
22	84Z299D2	· POWER SUPPLY, 24VDC	1
23	0844V055	· SCREW, Pan Hd Mach #10-24UNC x 2-1/2 in	4
24	79Q1505D28	· SPACER, 1-3/4 in lg	4
25	20Q270D16	· NUT, Hex 1/4-20UNC	2
26	16H5242	· BRACKET, Mounting	2
27	79Z566D3	· DUCT, Wire 1-1/2 x 3 x 13 in	AR
28	89Z904D1	· THERMOSTAT	1
29	0862V061	· SCREW, Pan Hd Mach #6-32UNC	2
30	3631V002	· WASHER, Plain #6	2
31	3616V003	· WASHER, Lock #6	2



REMOTE INPUT/OUTPUT, RPC CABINET



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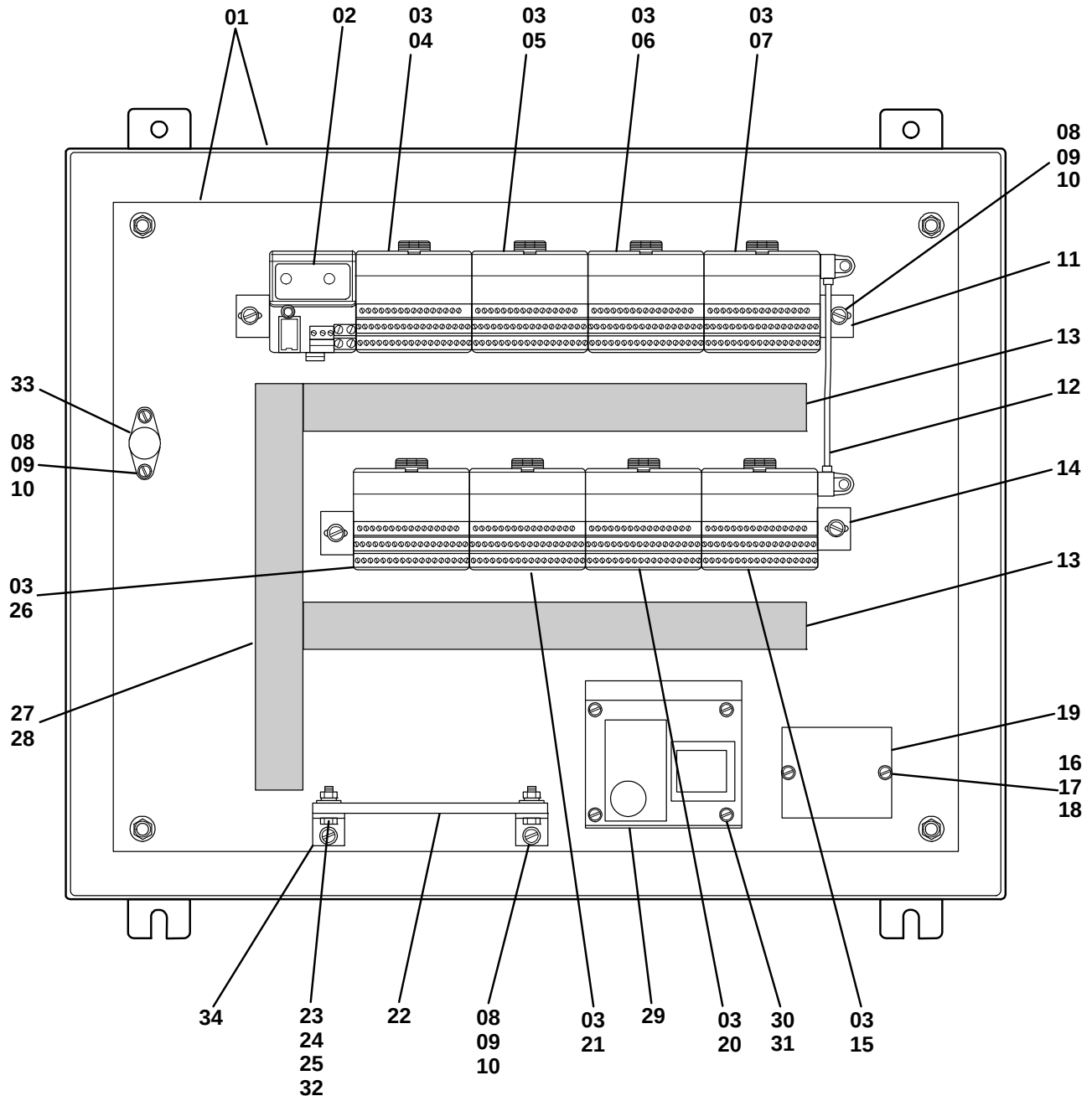


REMOTE INPUT/OUTPUT, RPC CABINET

REF	PART NO.	DESCRIPTION	QTY
	R16636F3	REMOTE INPUT/OUTPUT, RPC CABINET	
01	14Q183D11	• CABINET	1
02	R14217D2	• ADAPTER, Remote I/O	1
03	R14217D14	• BASE, Terminal	4
04	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
05	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
06	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
07	79Q1676D2	• CHANNEL, DIN Rail 16 in	AR
08	0862V094	• SCREW, Pan Hd Mach #10-24UNC x 3/8 in	6
09	3631V004	• WASHER, Plain #10	6
10	3616V005	• WASHER, Lock #10	6
11	R14217D3	• CABLE, Extender	1
12	79Z566D3	• DUCT, Wire 1-1/2 x 3 x 14-1/2 in	AR
13	79Q1676D2	• CHANNEL, DIN Rail 13 in	AR
14	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
15		NOT USED	
16	80Z112D11	• HEATER, Cabinet	1
17	20Q260D194	• SCREW, Hex Hd Cap 1/4-20UNC x 1 in	2
18	3631V005	• WASHER, Plain 1/4 in	2
19	3616V007	• WASHER, Lock 1/4 in	2
20	20Z1684D1	• RIVET, Wire Duct Mounting	9
21		NOT USED	
22		NOT USED	
23		NOT USED	
24		NOT USED	
25	20Q270D16	• NUT, Hex 1/4-20UNC	2
26	16H5242	• BRACKET, Mounting	2
27	79Z566D3	• DUCT, Wire 1-1/2 x 3 x 13 in	AR
28	89Z904D1	• THERMOSTAT	1
29	0862V061	• SCREW, Pan Hd Mach #6-32UNC	2
30	3631V002	• WASHER, Plain #6	2
31	3616V003	• WASHER, Lock #6	2



REMOTE INPUT/OUTPUT, LUBRICATION



F5850A

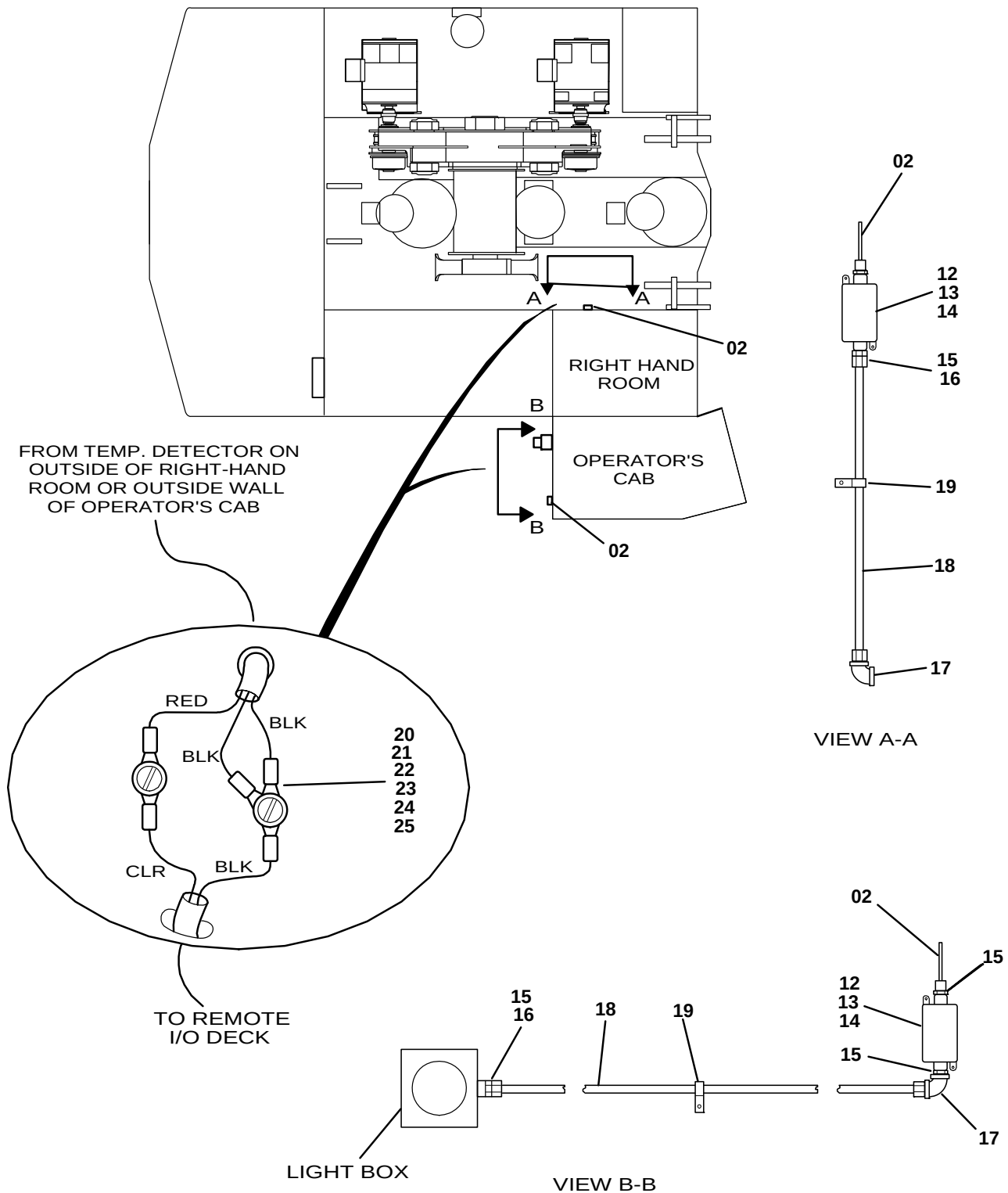


REMOTE INPUT/OUTPUT, LUBRICATION

REF	PART NO.	DESCRIPTION	QTY
	R16545F1	REMOTE INPUT/OUTPUT, LUBRICATION	
01	14Q183D30	• CABINET	1
02	R14217D2	• ADAPTER, Remote I/O	1
03	R14217D14	• BASE, Terminal	8
04	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
05	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
06	R14217D4	• MODULE, Input, 120 VAC, 8 PT	1
07	R14217D10	• MODULE, Output, 120 VAC, 8 PT	1
08	0862V094	• SCREW, Pan Hd Mach #10-24UNC x 3/8 in	8
09	3631V004	• WASHER, Plain #10	8
10	3616V005	• WASHER, Lock #10	8
11	79Q1676D2	• CHANNEL, DIN Rail 19-1/2 in	AR
12	R14217D3	• CABLE, Extender	1
13	79Z566D3	• DUCT, Wire 1-1/2 x 3 x 16 in	AR
14	79Q1676D2	• CHANNEL, DIN Rail 16-1/2 in	AR
15	R14217D10	• MODULE, Output, 120 VAC, 8 PT	1
16	0862V075	• SCREW, Pan Hd Mach #8-32UNC x 3/8 in	2
17	3631V003	• WASHER, Plain #8	2
18	3616V004	• WASHER, Lock #8	2
19	79Z3208D1	• RELAY	1
--	79Z2475D7	• RCV, (Not Shown)	1
20	R14217D10	• MODULE, Output, 120 VAC, 8 PT	1
21	R14217D17	• MODULE, Input, RTD, 8 PT	1
22	80Z112D11	• HEATER, Cabinet. 150W	1
23	20Q260D194	• SCREW, Pan Hd Mach 1/4 in-20UNC x 1 in	2
24	3631V005	• WASHER, Plain 1/4 in	2
25	3616V007	• WASHER, Lock 1/4 in	2
26	R14217D17	• MODULE, Input, RTD, 8 PT	1
27	79Z566D3	• DUCT, Wire 1-1/2 x 3 x 13 in	AR
28	20Z1684D1	• RIVET, Wire Duct Mounting	9
29	84Z299D2	• POWER SUPPLY	1
30	0844V055	• SCREW, Pan Hd Mach #8-32UNC x 1 in	4
31	79Q1505D28	• SPACER	4
32	20Q270D16	• NUT, Hex 1/4-20UNC	2
33	89Z904D1	• THERMOSTAT	1
34	16H5242	• BRACKET, Mounting	2



KIT, TEMPERATURE MONITOR

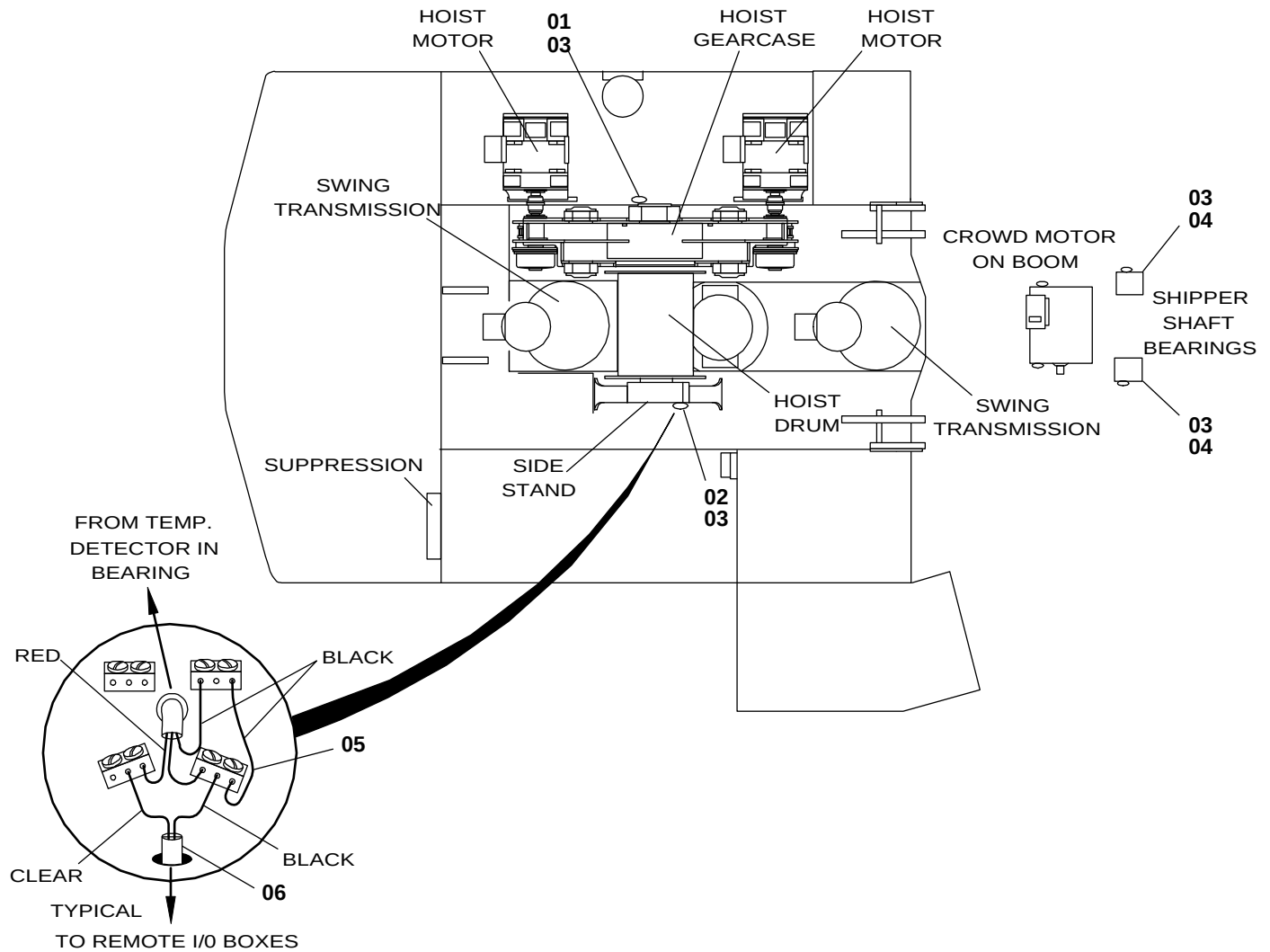


F7101

KIT, TEMPERATURE MONITOR

REF	PART NO.	DESCRIPTION	QTY
	R19679F2	KIT, TEMPERATURE MONITOR	
01		NOT USED	
02	89Q136D3	• TEMPERATURE, Detector 3 in	2
03		NOT USED	
04		NOT USED	
05		NOT USED	
06		NOT USED	
07		NOT USED	
08	203280150	• CABLE, #16 Awg, Twisted Shielded Pair 80 ft lg	AR
09		NOT USED	
10		NOT USED	
11		NOT USED	
12	87Z299D4	• BOX, Electrical	2
13	87Z299D3	• GASKET	2
14	87Z299D2	• COVER	2
15	79Z1918D1	• SEALING RING	3
16	79Z878D1	• CONNECTOR, Sealtite 1/2 in Straight	3
17	79Z880D1	• CONNECTOR, Sealtite 1/2 in 90 deg	2
18	304A13116	• CONDUIT, 1/2 in Sealtite	AR
19	0909V002	• CLAMP	15
20	79Q242D103	• TERMINAL, Insulated Ring Tongue	10
21	0862V094	• SCREW, Slotted Pan Hd 3/16-24UNC x3/8 in	10
22	3616V005	• WASHER, Lock 3/16 in	10
23	3631V004	• WASHER, Plain 3/16 in	10
24	2136V005	• NUT, Hex 5/16-24 UNC	10
25	21Z855	• TAPE, Electrical	1

KIT, TEMPERATURE MONITOR - HOIST BEARING & WINDING



F5970



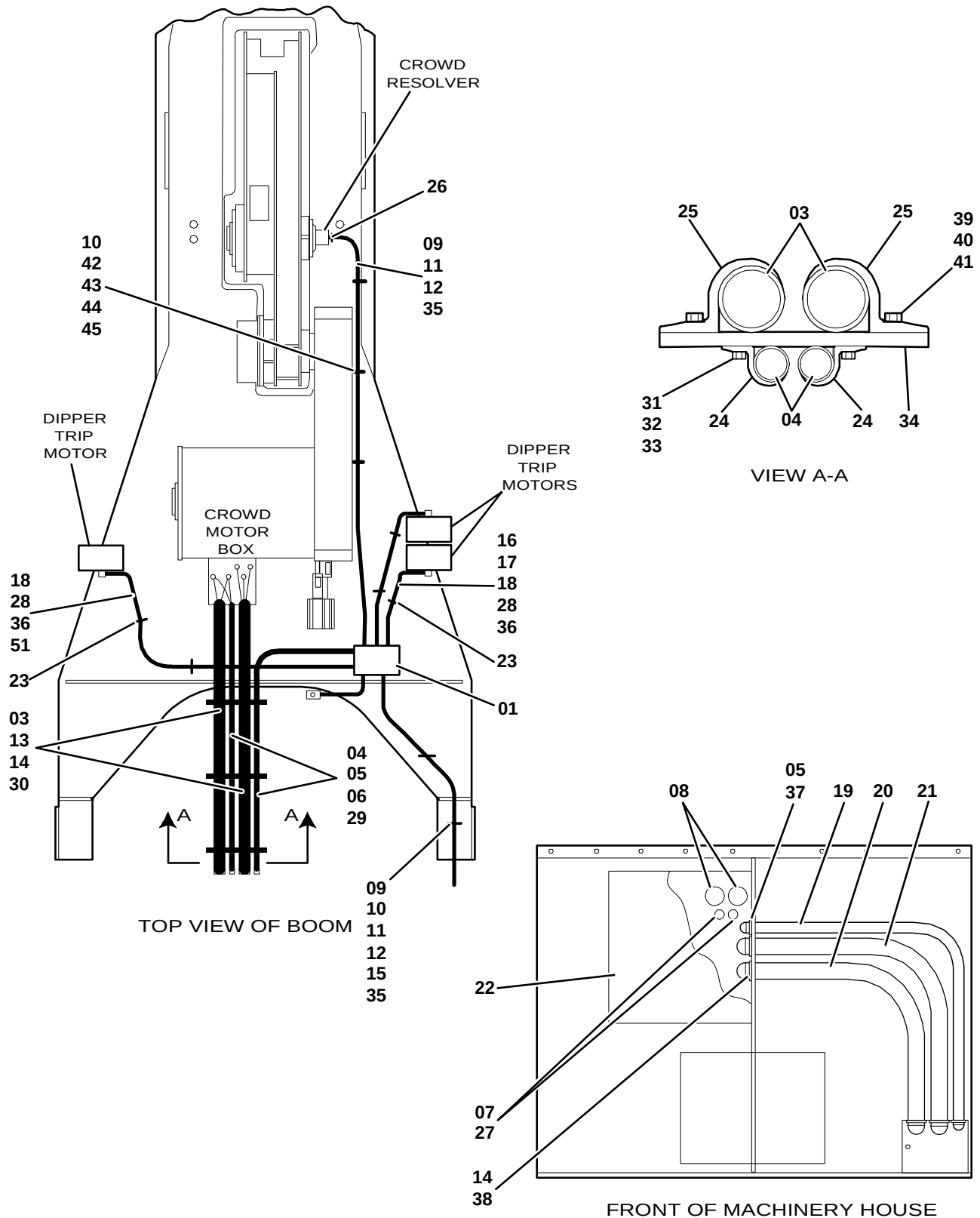
Machine Serial Number: **4184**

KIT, TEMPERATURE MONITOR - HOIST BEARING & WINDING

REF	PART NO.	DESCRIPTION	QTY
	R19679F3	KIT, TEMPERATURE MONITOR - HOIST BEARING & WINDING	
01	89Q136D4	· DETECTOR, Temperature 4-3/4 in Long	1
02	89Q136D5	· DETECTOR, Temperature 5-1/2 in Long	1
03	89Z862	· HEAD ASSEMBLY	2
04		NOT USED	
05	201381190	· CABLE, #16, Black 6ft Long (Not Shown)	AR
06	203280150	· CABLE, Twisted Shielded Pair #16	AR
07	205480152	· CABLE, #16, 4-Conductor 50ft Long (Not Shown)	AR
08	20Z40D7	· SCREW, Thread Forming #6 x 3/8 (Not Shown)	6
09	030413180	· CONDUIT, Flex 3/4 in x 60 ft Long (Not Shown)	AR
10	0944V002	· NUT, Lock 3/4 in (Not Shown)	20
11	0916V003	· CONNECTOR, Straight 3/4 in (Not Shown)	20



MISCELLANEOUS ELECTRICAL, BOOM



F5742A



MISCELLANEOUS ELECTRICAL, BOOM

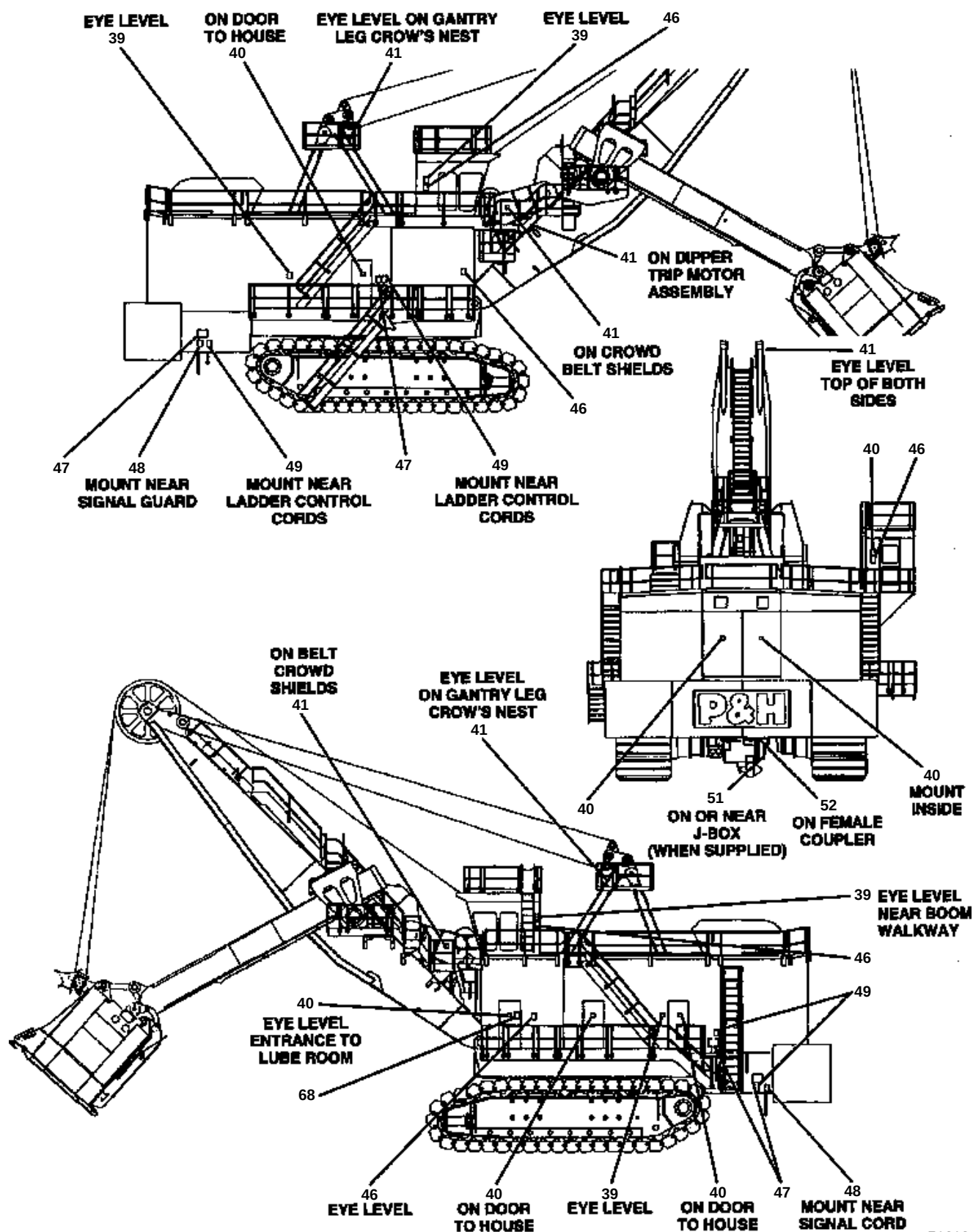
REF	PART NO.	DESCRIPTION	QTY
	R13189F1	MISCELLANEOUS ELECTRICAL, BOOM	
01	14A2950F1	• BOX, Junction	1
02		NOT USED	
03	304A13596	• CONDUIT, Flex steel, 4 in x 25 ft	AR
04	304A13372	• CONDUIT, Flex steel, 2 in x 25 ft	AR
05	0944V006	• NUT, Lock 4 in	12
06	79Z878D7	• CONNECTOR, Straight Sealtite 2 in	4
07	0929V007	• COUPLING, 2 in	2
08	0929V011	• COUPLING, 4 in	2
09	79Z878D2	• CONNECTOR, Straight Sealtite 3/4 in	4
10	0909V003	• STRAP, 3/4 in	5
11	304A13180	• CONDUIT, Flex stell, 3/4 in x 30 ft	AR
12	79Z1918D2	• O-RING, 3/4 in	4
13	79Z878D10	• CONNECTOR, Straight Sealtite 4 in	4
14	0944V010	• NUT, Lock 4 in	12
15	79Z879D2	• CONNECTOR, Sealtite 3/4 in x 45 deg.	2
16	304A13244	• CONDUIT, Flex steel, 1 x 96 in	AR
17	79Z880D3	• CONNECTOR, Sealtite 1 in x 90 deg.	2
18	79Z878D3	• CONNECTOR, Straight Sealtite 1 in	2
19	87N247D31	• CONDUIT, 90 Deg Bend 2 in	2
20	87N247D29	• CONDUIT, 90 Deg Bend 4 in	1
21	87N247D30	• CONDUIT, 90 Deg Bend 4 in	1
22	R13626F1	• BOX, Electrical	1
23	0909V004	• STRAP, Conduit 1 in	4
24	0909V007	• STRAP, Conduit 2 in	6
25	0909V011	• STRAP, Conduit 4 in	6
26	0951V004	• REDUCER, Pipe 1-3/4 in	1
27	0949V009	• BUSHING, Male 2 in	2
28	79Z1918D3	• O-RING, 1 in	4
29	79Z1918D6	• O-RING, 2 in	4
30	79Z1918D9	• O-RING, 4 in	4
31	20Q260D327	• SCREW, Hex Hd Cap 1/2-13UNC X 1-1/4 in	6
32	3616V011	• WASHER, Lock 1/2 in	6
33	3631V009	• WASHER, Plain 1/2 in	6
34	R13625D1	• BRACKET	3
35	87Z81D2	• BUSHING, End 3/4 in	3
36	87Z81D3	• BUSHING, End 1 in	4

MISCELLANEOUS ELECTRICAL, BOOM

REF	PART NO.	DESCRIPTION	QTY
37	87Z81D6	· BUSHING, End 2 in	4
38	87Z81D9	· BUSHING, End 4 in	4
39	20Q260D402	· SCREW, Hex Hd Cap 5/8-11UNC X 1-1/2 in	6
40	3616V013	· WASHER, Lock 5/8 in	6
41	3631V011	· WASHER, Plain 5/8 in	6
42	16N3343D6	· PAD, Mounting	9
43	20Q260D193	· SCREW, Hex Hd Cap 1/4-20UNC x 7/8 in	9
44	3616V007	· WASHER, Lock 1/4 in	9
45	3631V005	· WASHER, Plain 1/4 in	9

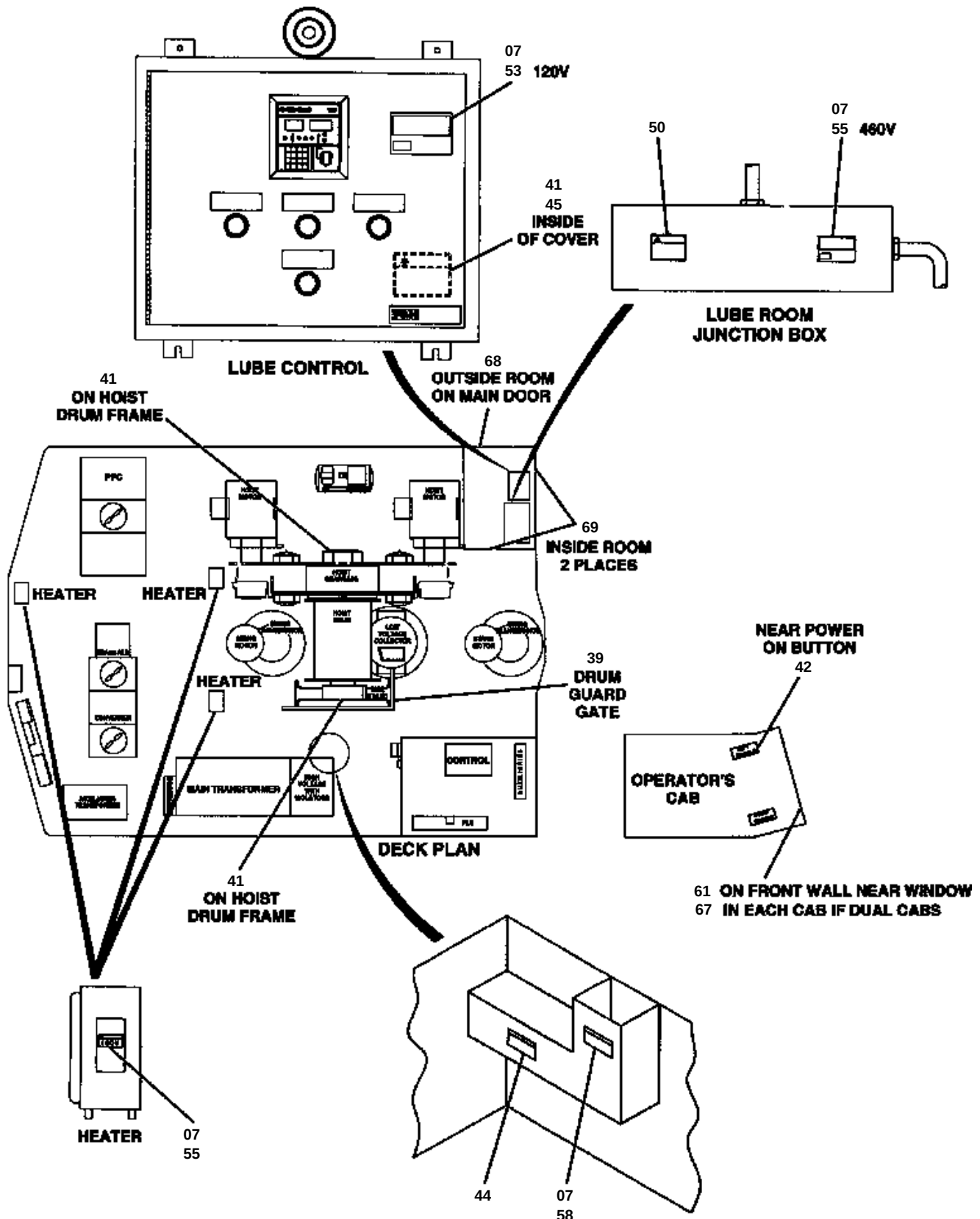


INSTALLATION, SIGNS



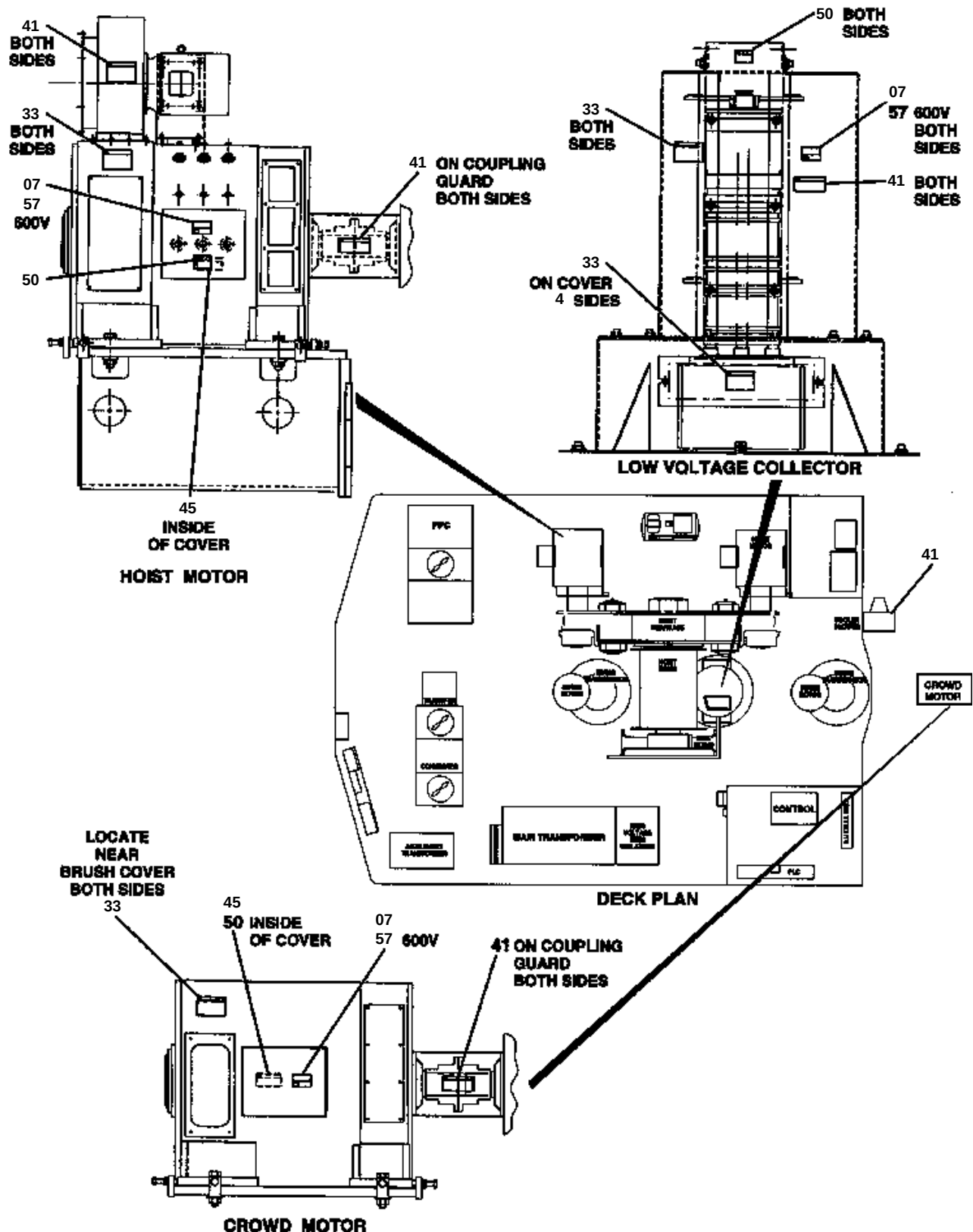
F8836

INSTALLATION, SIGNS



F6638A

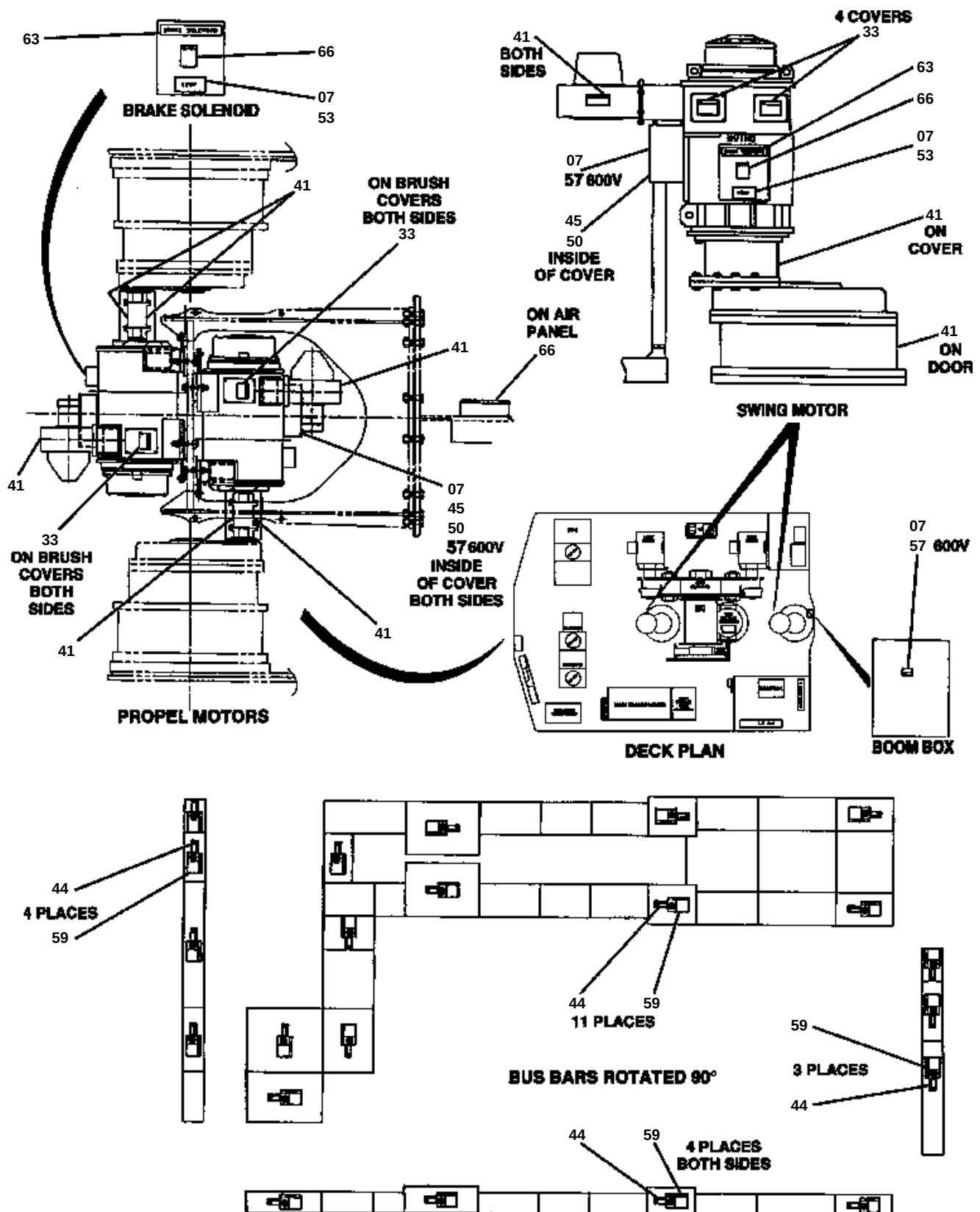
INSTALLATION, SIGNS



F6638B



INSTALLATION, SIGNS



F8638C

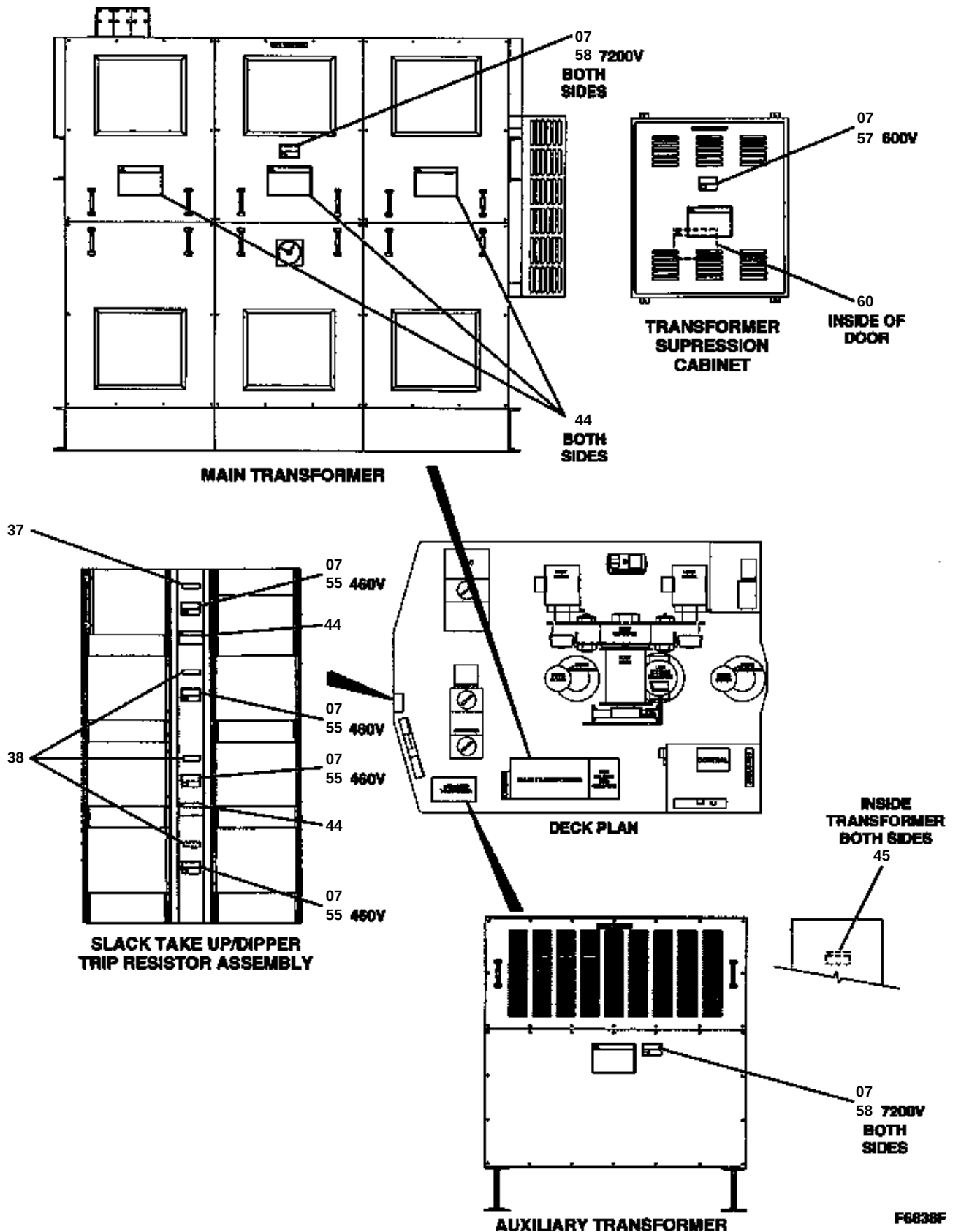
The diagram illustrates the layout and components of the PLC cabinet and its associated equipment. The main components shown are:

- PLC CABINET:** The central unit with four vertical slots. It features a door with an "INSIDE OF DOOR" label (45) and a "LOAD CENTER" (29). The door is labeled "INSIDE OF DOOR" (45) and "LOAD CENTER" (29). The door is labeled "INSIDE OF DOOR" (45) and "LOAD CENTER" (29).
- AUXILIARY CABINET:** Located to the right of the PLC cabinet, it contains various components labeled 43, 44, 45, 60, 07, 53 120V, and 55 480V.
- DECK PLAN:** A top-down view of the cabinet's internal layout, showing the arrangement of components and the location of the "FLOODLIGHT TRANSFORMER" (07 54 230V).
- LEFT SIDE:** A side view of the cabinet showing the "INSIDE OF DOOR" (45) and "LOAD CENTER" (29) components.
- CONTROL CABINET FRONT:** A front view of the control cabinet showing the "INSIDE OF DOOR" (45) and "LOAD CENTER" (29) components.
- RIGHT SIDE:** A side view of the cabinet showing the "INSIDE OF DOOR" (45) and "LOAD CENTER" (29) components.

Key components and labels include:

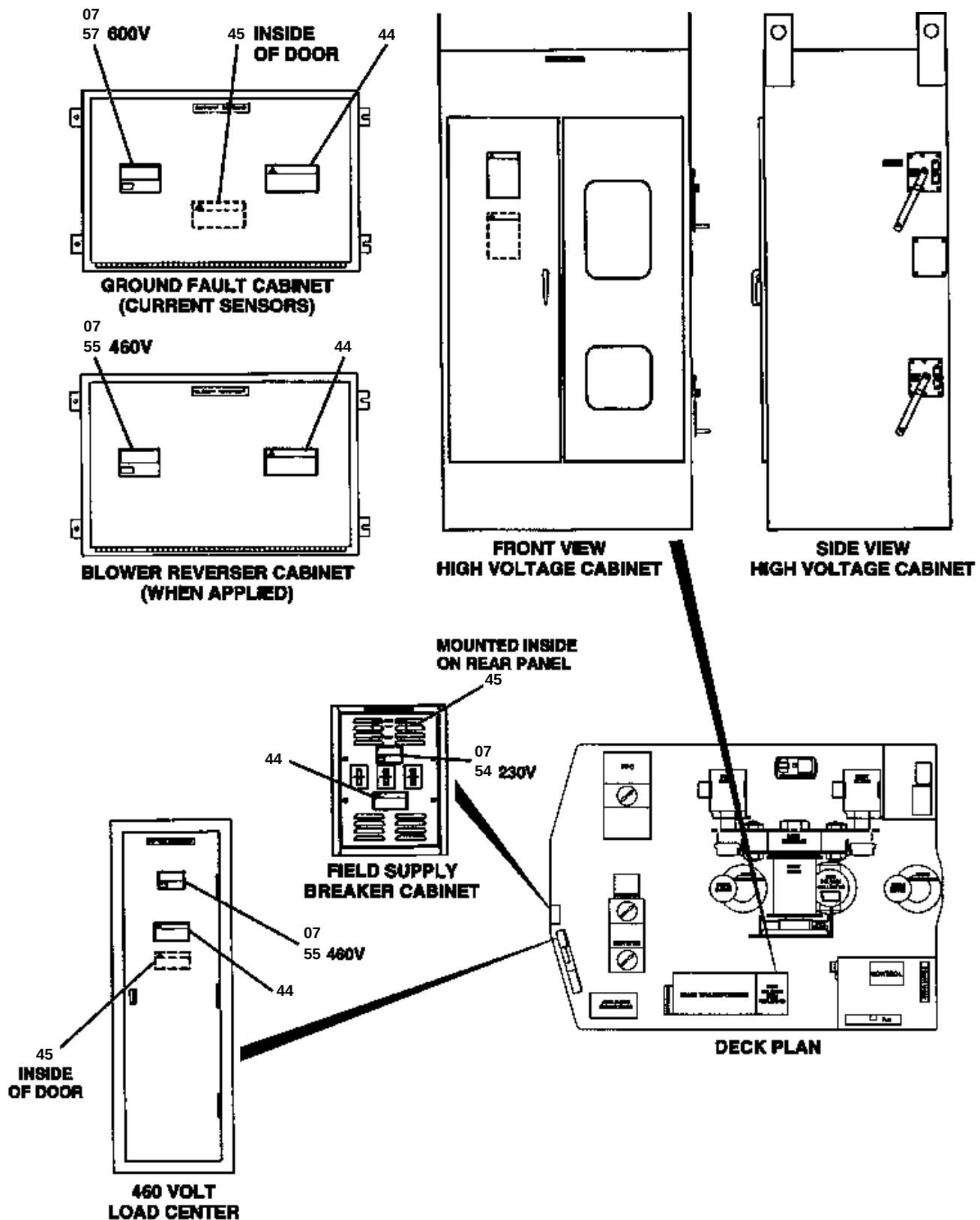
- 07 53 120V:** Voltage specification for the main power supply.
- 07 54 230V:** Voltage specification for the floodlight transformer.
- 07 55 480V:** Voltage specification for the auxiliary power supply.
- 07 57 600V:** Voltage specification for the floodlight transformer.
- 43, 44, 45, 60:** Component identifiers for various internal parts.
- INSIDE OF DOOR:** Label for the internal door components.
- LOAD CENTER:** Label for the main power supply component.
- FLOODLIGHT TRANSFORMER:** Label for the transformer used for the floodlights.

INSTALLATION, SIGNS





INSTALLATION, SIGNS



F6638G



INSTALLATION, SIGNS

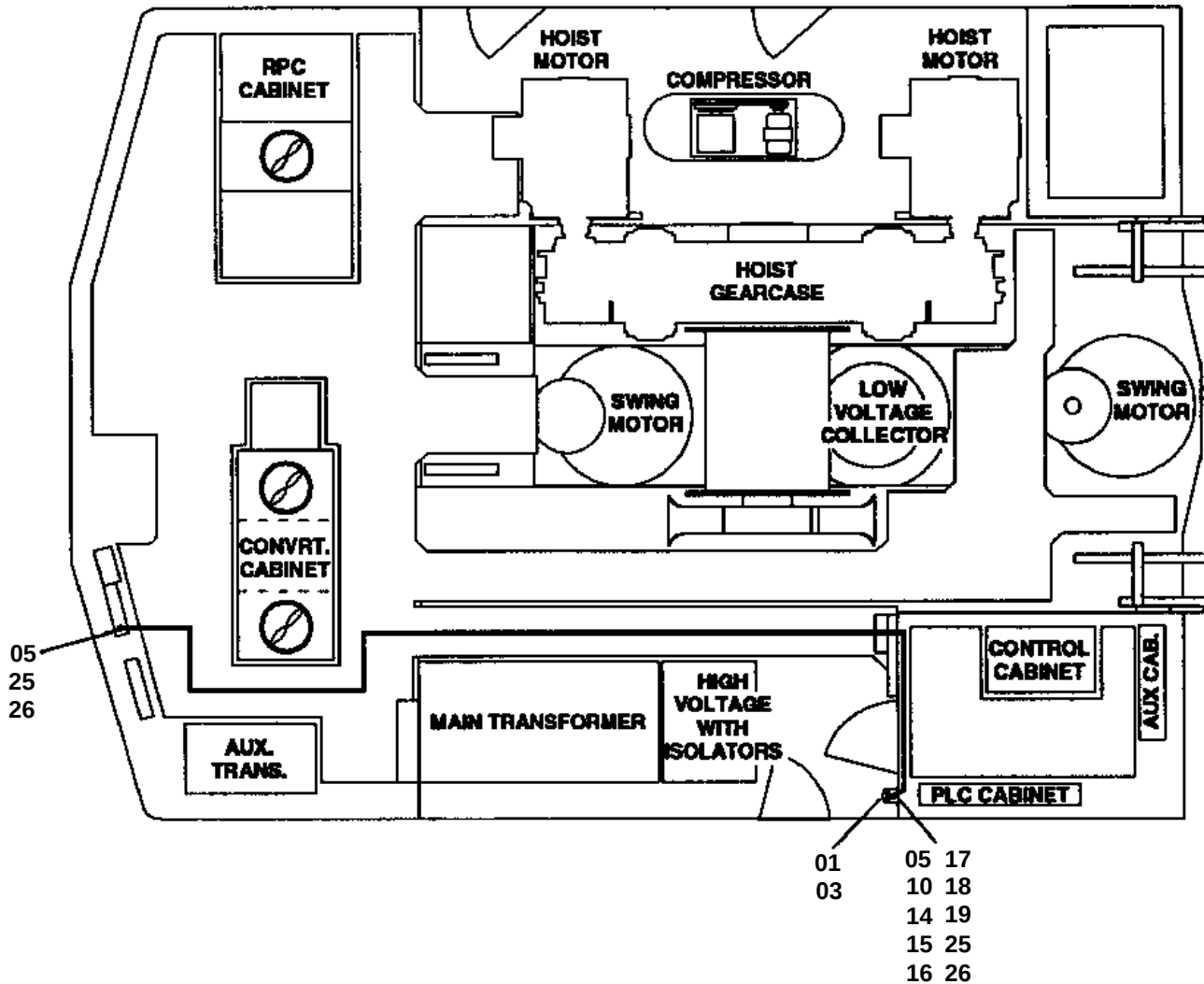
REF	PART NO.	DESCRIPTION	QTY
	R3328F2	INSTALLATION, SIGNS	
01		NOT USED	
02		NOT USED	
03		NOT USED	
04		NOT USED	
05		NOT USED	
06		NOT USED	
07	32Q1780D3	· DECAL, Notice Voltage	27
08		NOT USED	
09		NOT USED	
10		NOT USED	
11		NOT USED	
12		NOT USED	
13		NOT USED	
14		NOT USED	
15		NOT USED	
16		NOT USED	
17		NOT USED	
18		NOT USED	
19		NOT USED	
20		NOT USED	
21		NOT USED	
22		NOT USED	
23		NOT USED	
24		NOT USED	
25		NOT USED	
26		NOT USED	
27	32U1181D1	· DECAL, P&H Electrotorque	3
28		NOT USED	
29	32Q590D24	· DECAL 120V Load Center	1
30		NOT USED	
31		NOT USED	
32		NOT USED	
33	32Q1942D1	· SIGN, Warning Rotating Parts	24
34		NOT USED	
35		NOT USED	
36	32Q590D11	· DECAL, Transfer Contactor Cabinet	1



INSTALLATION, SIGNS

REF	PART NO.	DESCRIPTION	QTY
37	32Q592D5	• DECAL, Slack Take Up Resistor	1
38	32Q592D6	• DECAL, Dipper Trip Resistor	3
39	32Q1775	• SIGN, Warning Hazardous Area	5
40	32Q1756	• DECAL, Caution Falling, Slipping, Trip	7
41	32Q1764	• DECAL, Caution Rotating Parts	35
42	32Q1931	• SIGN, Notice Read Operators Manual	1
43	32Q1808	• SIGN, Caution Do Not Open Doors	5
44	32Q1809	• SIGN, Warning Hazardous Voltage	37
45	32Q1810	• SIGN, Danger Hazardous Voltage	12
46	32Q1776	• SIGN, Warning Falling Objects	5
47	R2994D1	• SIGN, Notice Ladder Instructions	4
48	32Q1778	• SIGN, Notice Signal Bell	2
49	32Q1779	• DECAL, Warning Ladder Instructions	4
50	32Q1801	• SIGN, Warning Hazardous Voltage	9
51	32Q1803	• DECAL, Danger Hazardous Voltage	1
52	32Q1804	• SIGN, Danger Hazardous Voltage	1
53	32Q1805D56	• LABEL, Identification Voltage - 120	4
54	32Q1805D22	• LABEL, Identification Voltage - 230	2
55	32Q1805D26	• LABEL, Identification Voltage - 460	7
56		NOT USED	
57	32Q1805D58	• LABEL, Identification Voltage - 600	13
58	32Q1805D39	• LABEL, Identification Voltage - 7200	1
59	32Q1813	• SIGN, Caution No Stepping	26
60	32Q1806	• DECAL, Danger Hazardous Voltage	3
61	32Q1951D1	• SIGN, Warning Tip-Over-Runaway	1
62	R21395	• DECAL, Crush and Pinch Hazard	1
63	32Q1918D27	• SIGN, Brake Solenoid	7
64	32Q1918D28	• SIGN, Blower Reversers	1
65	32Q1918D29	• SIGN, Rope Tugger	2
66	R33060D1	• SIGN, Warning Manual Brake Release	7
67	R33059D1	• SIGN, Notice Severe Boom Jack	1
68	32Q1914	• SIGN, Warning Open Flames	1
69	32Q1876	• SIGN, Danger Open Flames	2

INSTALLATION, WELDER RECEPTACLES



F5788

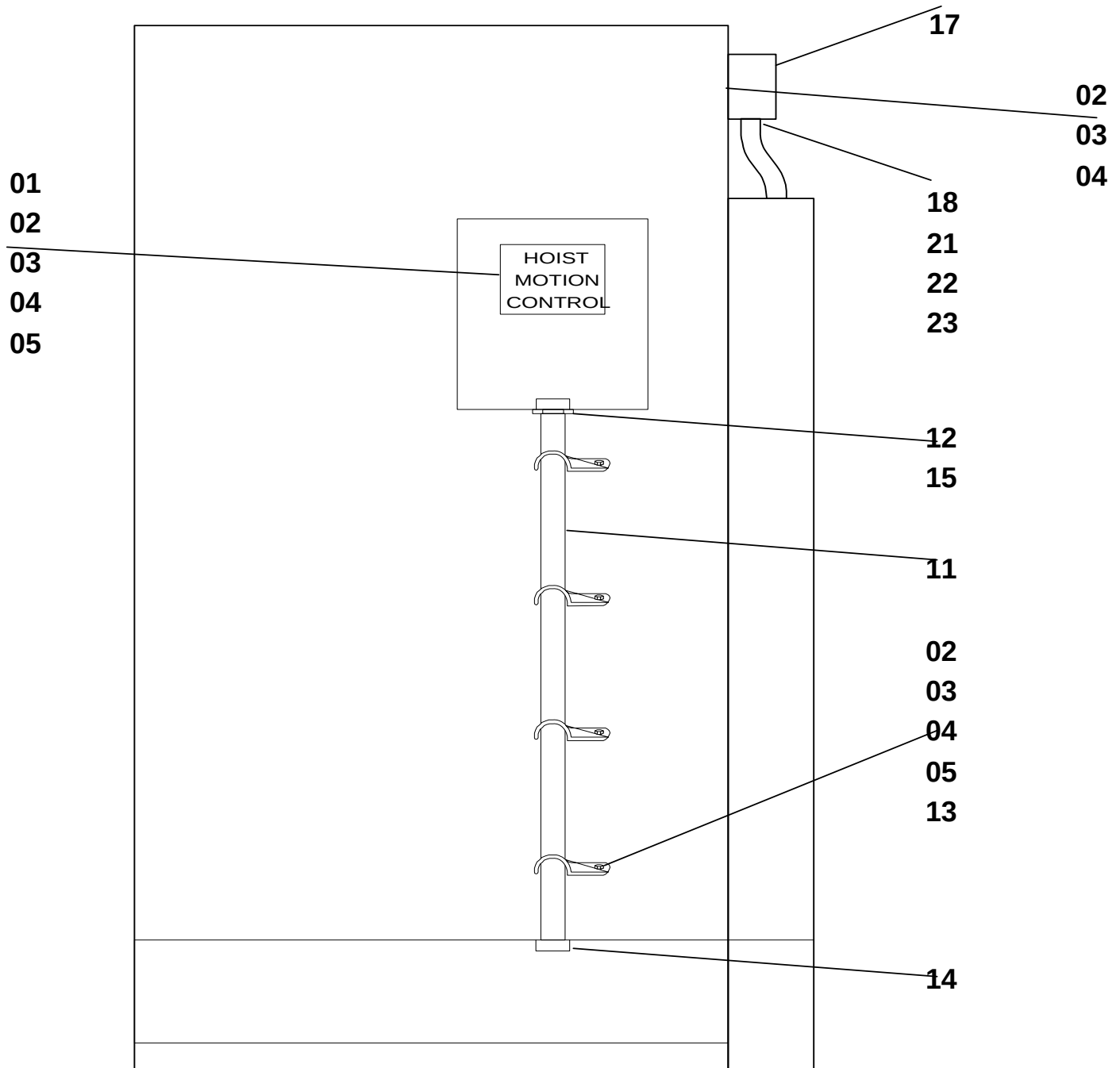


INSTALLATION, WELDER RECEPTACLES

REF	PART NO.	DESCRIPTION	QTY
	R5744F1	INSTALLATION, WELDER RECEPTACLES	
01	87Z276D1	• RECEPTACLE, Welder 600V, 60A	1
02		NOT USED	
03		NOT USED	
04		NOT USED	
05	201460071	• WIRE, #6 AWG, 55 ft	AR
06		NOT USED	
07		NOT USED	
08		NOT USED	
09		NOT USED	
10	79U2522D27	• LUG, #6 AWG with 25-20 Stud	3
11		NOT USED	
12		NOT USED	
13		NOT USED	
14	0862V133	• SCREW, Pan Hd Mach 1/4-20UNC x 1/2 in	3
15	20Q270D16	• NUT, Hex 1/4-20UNC	3
16	3616V007	• WASHER, Lock 1/4 in	3
17	030413308	• CONDUIT, Flexible Metallic, 1-1/2 in, 2 ft	AR
18	0916V006	• CONDUIT, Straight 1-1/2 in	1
19	79Z879D6	• CONDUIT, 1-1/2 in, 45 deg	1
20		NOT USED	
21		NOT USED	
22		NOT USED	
23		NOT USED	
24		NOT USED	
25	79Z3134D7	• TUBING, Heat Shrink	AR
26	32Z2510	• MARKER, Wire	1
27	32Z890D3	• TIE, Wire 1-3/4 in	AR
28	21Z854	• TAPE, Electric - Black	1
29		NOT USED	
30		NOT USED	
31		NOT USED	
32		NOT USED	
33		NOT USED	
34		NOT USED	



KIT, REMOTE HOIST CONTROL

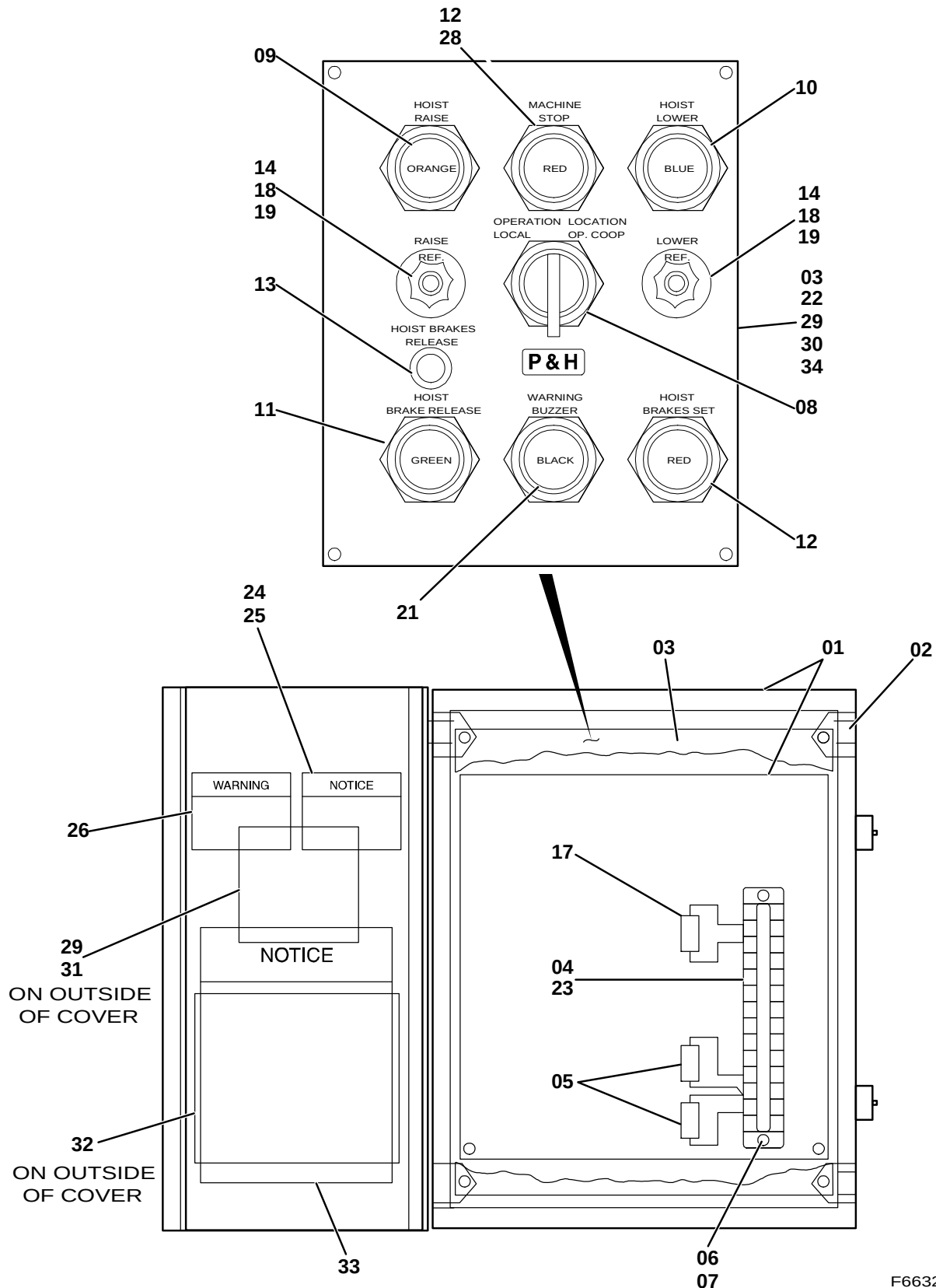


F6631

KIT, REMOTE HOIST CONTROL

REF	PART NO.	DESCRIPTION	QTY	PAGE
	R33913F1	KIT, REMOTE HOIST CONTROL		
01	100A14742F6	• HOIST, Remote Motion Control	1	14-74
02	20Q260D192	• SCREW, Hex Hd Cap 1/4-20UNC x 3/4 in	10	
03	3631V005	• WASHER, Plain Steel Plated 1/4 in	10	
04	3616V007	• WASHER, Lock Steel Plated 1/4 in	10	
05	20Q270D16	• NUT, Hex 1/4-20UNC	6	
06		NOT USED		
07	201460051	• HYPALON, #16 Awg (Not Shown)	AR	
08		NOT USED		
09	205480159	• CABLE, #16 Awg (Not Shown)	AR	
10		NOT USED		
11	030413244	• CONDUIT, Flex 1 x 48-1/2 in lg	1	
12	0916V004	• CONNECTOR, Flex 1 in	1	
13	0909V004	• STRAP, 1 in	4	
14	79Z5584D4	• FERRULE, 2 in	2	
15	0944V003	• NUT, Lock, Conduit 1 in	1	
16		NOT USED		
17	47Z63	• BUZZER	1	
18	0950V004	• CONNECTOR, Offset 1/2 in	1	
19		NOT USED		
20		NOT USED		
21	0944V001	• NUT, Lock 1/2 in	2	
22	0906V001	• BUSHING, End 1/2 in	2	
23	030413116	• CONDUIT, Flex 1/2 x 6 in lg	1	

PANEL REMOTE HOIST CONTROL



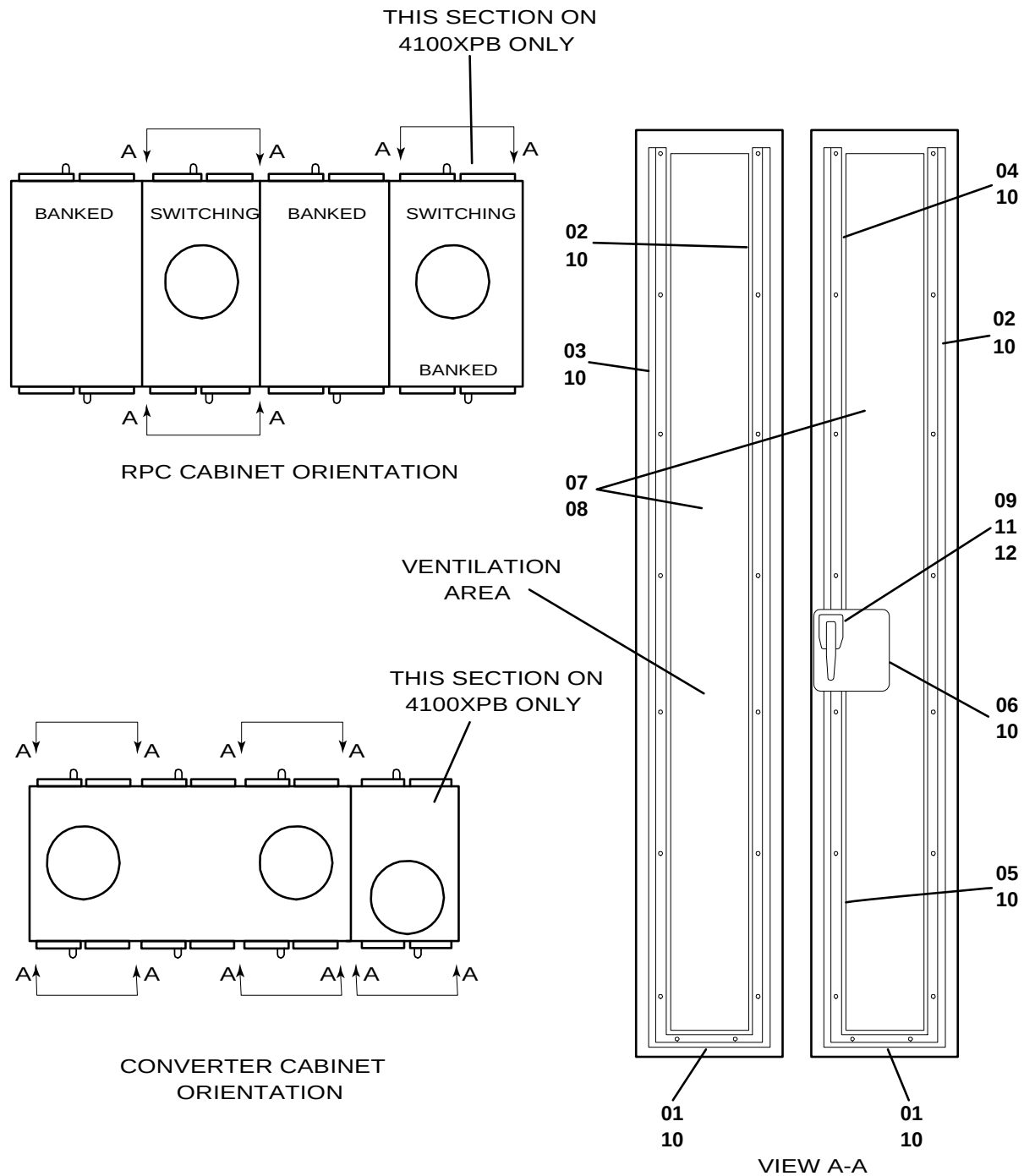
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PANEL REMOTE HOIST CONTROL

REF	PART NO.	DESCRIPTION	QTY
	100A14742F6	PANEL REMOTE HOIST CONTROL	
01	14Q107D1	· ENCLOSURE, W/Panel	1
02	14Q224D1	· KIT, Swing-Out Panel	1
03		NOT USED	
04		NOT USED	
05		NOT USED	
06	0860V073	· SCREW, Round Hd Mach #10-24-3/8 in	2
07	3616V005	· WASHER, Lock #10	2
08	479Z10D198	· SWITCH, Selector, 2 Position	1
09	479Z10D193	· PUSHBUTTON, (Orange)	1
10	479Z10D194	· PUSHBUTTON, (Blue)	1
11	479Z10D196	· PUSHBUTTON, (Green)	1
12	479Z10D197	· PUSHBUTTON, (Red)	2
13	56Z363D2	· LIGHT, Pilot (Green)	1
14		NOT USED	
15		NOT USED	
16		NOT USED	
17	80Z8381D2	· RESISTOR	1
18	6Z763D1	· KNOB, Potentiometer	2
19	80Z813D32	· POTENTIOMETER	2
20		NOT USED	
21	479Z10D201	· PUSHBUTTON, (Black)	1
22	14P3335	· PUSHBUTTON, Panel	1
23	79H2159D20	· TERMINAL BOARD	1
24	32Q1780D3	· DECAL, Notice	1
25	32Q1805D29	· DECAL, Voltage	1
26	32Q1801	· SIGN, Warning Hazardous Voltage	1
27		NOT USED	
28	32Q639D112	· NAMEPLATE, Stop	1
29	21Z516D2	· ADHESIVE	1
30		NOT USED	
31	R18270D1	· NAMEPLATE	1
32	R19323D1	· SIGN, Warning	1
33	R19392D1	· SIGN, Notice	1
34	R18269D2	· NAMEPLATE	1

KIT, CABINET AIR FILTERS



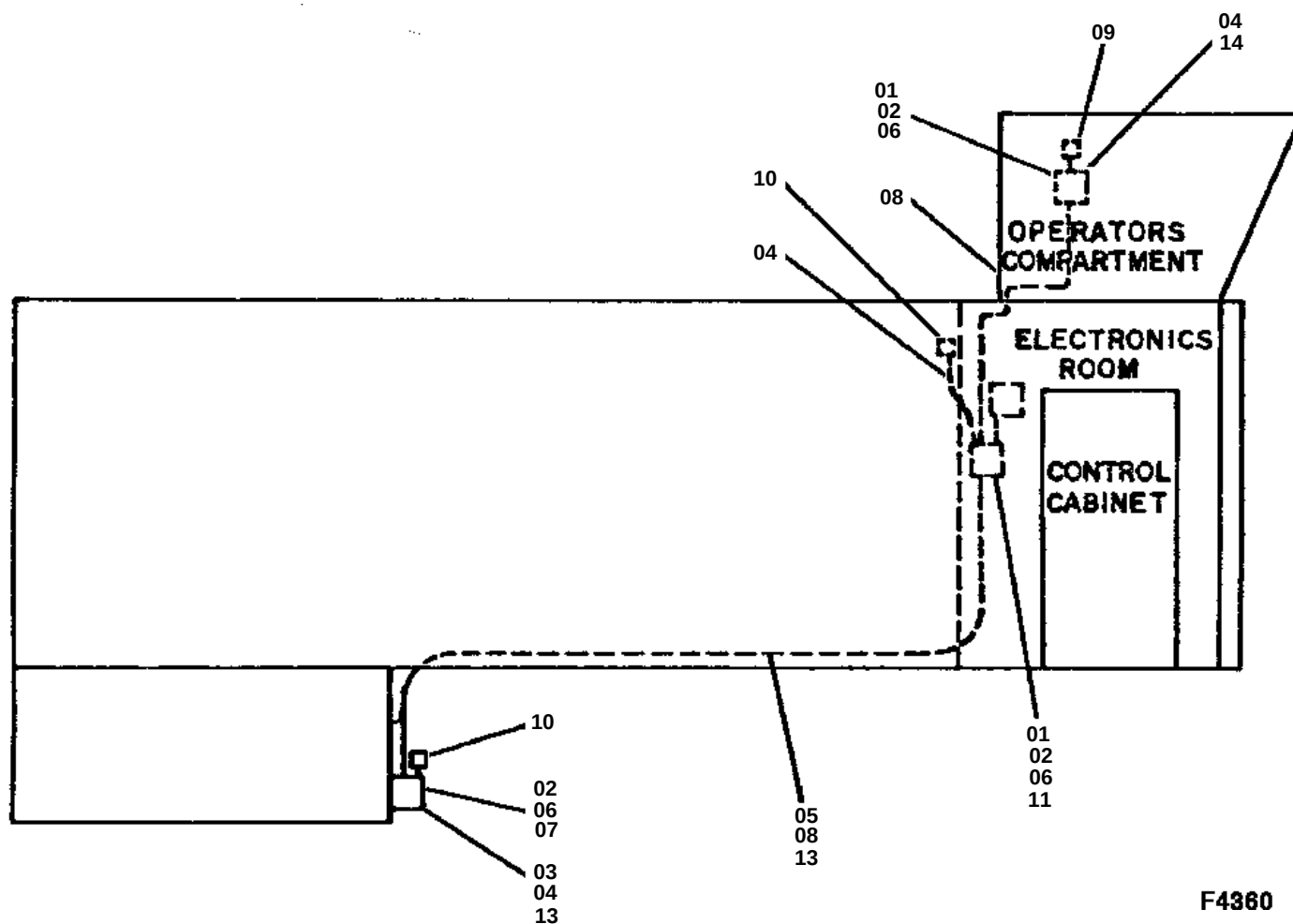
F5535

KIT, CABINET AIR FILTERS

REF	PART NO.	DESCRIPTION	QTY
	1100N761F1	KIT, CABINET AIR FILTERS	
01	16P7098	• BRACKET, Air Filter	12
02	16N3625D2	• BRACKET, Air Filter	12
03	16N3625D1	• BRACKET, Air Filter	6
04	16P7096	• BRACKET, Air Filter	6
05	16P7097	• BRACKET, Air Filter	6
06	16N3626	• BRACKET, Air Filter	6
07	46Q132D2	• FILTER, Air 85 ft	AR
08	46Q132D2	• FILTER, Air 16 ft	AR
09	6H554D3	• HANDLE, Cabinet	6
10	20Z1282D1	• SCREW, Self Drill Hex Hd 3/16-24 x 9/16 in	204
11	0862V092	• SCREW, Pan Hd Mach #10-24UNC x 1/4 in	18
12	18Z733D7	• WASHER, Lock - Internal Tooth #10	18



KIT, COMMUNICATION SYSTEM





Machine
Serial Number: **4184**

KIT, COMMUNICATION SYSTEM

[illegible]



MISCELLANEOUS ELECTRICAL MATERIAL-ES4184

REF	PART NO.	DESCRIPTION	QTY	PAGE
--		MISCELLANEOUS ELECTRICAL MATERIAL		
01	R7801F31	TRANSFORMER, Main,60 Hz, 2500 KVA, 7.2/4.14kv	1	14-43
02	R22364D1	TRANSFORMER, Auxiliary, 325 KVA	1	
03	R29298F1	KIRK KEY INTERLOCK SYSTEM	1	
04	6U104D112	INTERLOCK, Key	1	
05	87Z144	RECEPTACLES	3	
06	R35334F1	COVER, Circuit breaker	1	
07	1100J876F1	RECEPTACLE KIT	1	
08	79Z2475D7	RCV SURGE SUPPRESSORS	12	
09	R5744F1	INSTALLATION, Welder receptacles	1	14-72
10	47Q11D203	HORN, Audible propel	2	
11	R21287D39	EEPROM, Programmed	1	
12	R30930F3	CABLE INSTALLATION ASSEMBLY, Upper	1	
13	R36645D2	BREAKER, Circuit	1	
14	87Z407D1	RECEPTACLE	4	
15	87Z28D7	COVER, Receptacle	4	
16	R30930F17	CABLE INSTALLATION ASSEMBLY, Lower	1	
17	R31068F1	CABLE INSTALLATION ASSEMBLY, Right hand coop	1	
18	100J6245F1	CABLE INSTALLATION ASSEMBLY, Boom	1	
19	R30930F16	CABLE INSTALLATION ASSEMBLY, Propel	1	
20	R30930F2	CABLE INSTALLATION ASSEMBLY, Right hand room	1	
21	R30930F10	CABLE INSTALLATION ASSEMBLY, Left hand room	1	
22	87Z155D78	SOCKET & PLUG, Coupling	1	
23	R21283D39	DISC, PLC Program	4	
24	R31683F1	CABLE, Solenoid plemum	1	
25	37Z232	FIRE EXTINGUISHER	3	
26	R31892D1	SETTINGS, Auxiliary cabinet (DRAWING)	1	
27	R34668F1	TROUGH, RH Room wiring	1	
28	R32611F1	STAIR, Lower electrical cabinet access	1	7-21
29	R41177F1	TROUGH, External wiring	1	