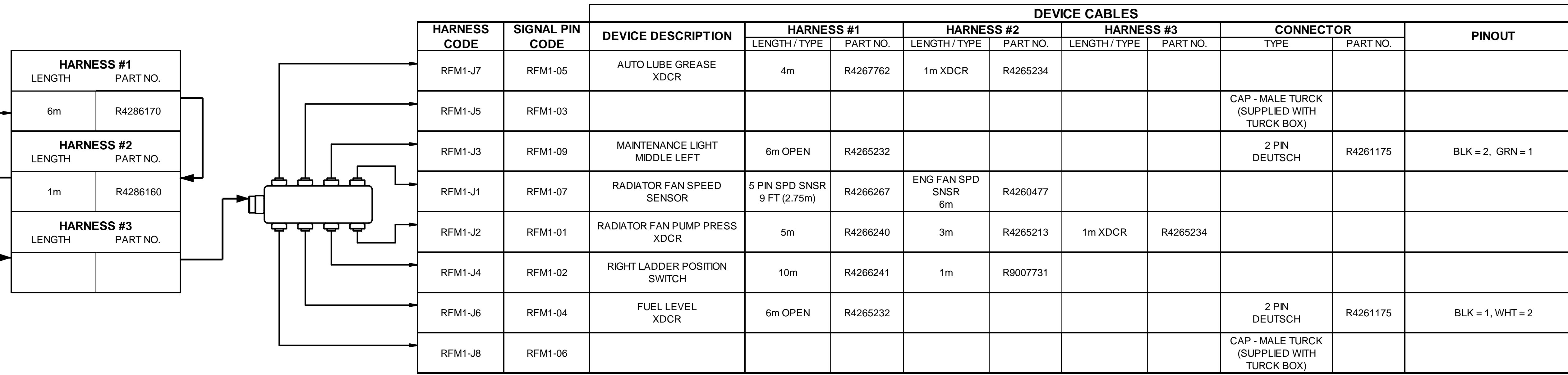
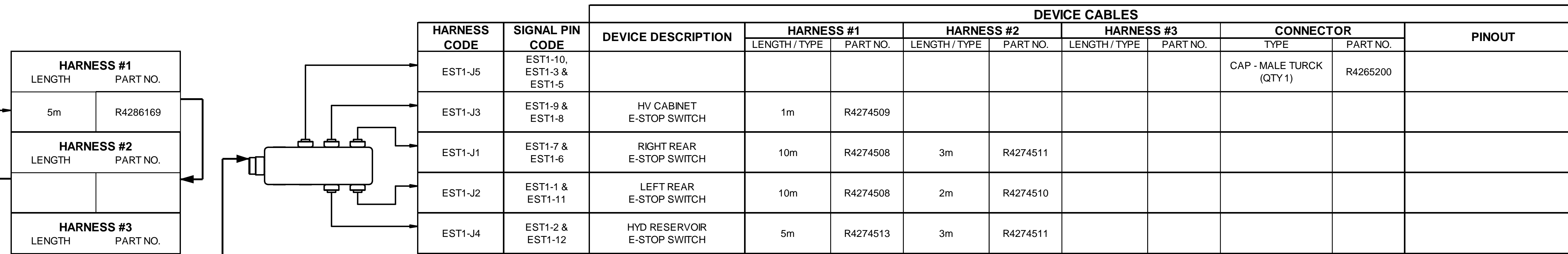


LOW VOLTAGE CABINET

BOX: RFM1
DESCRIPTION: REAR FRAME MID #1

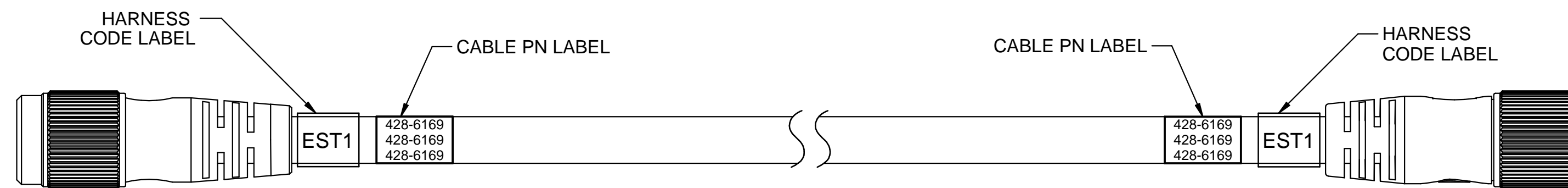


BOX: EST1
DESCRIPTION: EMERGENCY STOP #1



LABEL NOTES:

- LABEL EACH CABLE WITH HARNESS CODE AT EACH END USING A 'REPEATING TEXT' LABEL AS SHOWN.
- LABEL EACH CABLE WITH ITS PART NUMBER NEAR EACH END USING A 'REPEATING TEXT' LABEL AS SHOWN.
- COVER ALL LABELS WITH CLEAR HEAT SHRINK.



NOTE:

- * INDICATES MACHINE OPTION
- SHOWN FOR REFERENCE ONLY

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	02	IN RFM1 4m WAS 5m & R4267762 WAS R4266240; IN EST1 1m WAS 5m, R4274509 WAS R4274513, ADDED CAP-MALE TURCK (QTY 1) & R4265200; IT 3 WAS QTY 7; IT 10 QTY WAS 2; IT 26 QTY WAS 5; IT 36 QTY WAS 2; IT 45 QTY WAS 1; IT 46 WAS QTY 4; ADDED IT 58-61		2023-03-21	CTM	BBD	JMS
	03	ADDED ITEM 62; DELETED ITEM 19; ITEM 1 QTY WAS 5; ITEM 24 QTY WAS 6; ITEM 3 QTY WAS 8		2023-06-12	RPK	BBD	JMS

62	R9015970	1	CABLE AIR DRYER
61	4259325	112	CONDUIT SLIT LOOM 1/4 INCH
60	4301346	3	CABLE LMR-400 EXTENSION 20 FT
59	R9010468	4	CABLE FAKRA STR PLUG TO FAKRA RA JACK
58	4240140	1	CONNECTOR (PLUG) DIN REXROTH
57	R9011409	4	CABLE FAKRA TO SMA 1M
56	R9010458	2	CABLE 10M CAMERA, PROVIU
55	R9007735	1	ASSY DEUTSCH DT06-4S PLUG
54	R9007731	1	CABLE 3 PIN - M12 PROX SW 1M
52	4286164	1	CABLE EXT 12 PIN 2.4M
51	4264197	1	CABLE EXT 3 PIN 1.4M
50	4266249	1	CABLE EXT CAN 1M
49	4266251	1	CABLE EXT CAN 10M
48	4264195	2	CABLE EXT E-NET 1.5M
47	4282850	1	CABLE EXT M12 3M
46	4267762	2	CABLE EXT 3 PIN 4M
45	4274511	2	CABLE EXT 4 PIN 3M
44	4301340	1	CABLE 3 PIN-M12 ENCODER 1M
43	4266250	4	CABLE EXT CAN 3M
42	4282857	1	CABLE PVED-CC CAN
41	4282744	1	CABLE EXT 19 PIN 6 METERS
40	4301341	1	CABLE AIR SOL 1M
39	4292624	2	CABLE 3 PIN-LOW LEVEL
38	4274508	2	CABLE EXT 4 PIN 10M
37	4274513	2	CABLE EXT 4 PIN 5M
36	4274510	1	CABLE EXT 4 PIN 2M
35	4274507	1	BREAKOUT BOX- 5 PORT
34	4274370	4	LABELS FOR BRADY ID PAL LABELER
33	4274371	.125	TAPE STRIPS
32	4170168	5.0	HEAT SHRINK - CLEAR 2.000 2:1
31	4170167	15.00	HEAT SHRK CLR 1.500 2:1
30	4170166	15.00	HEAT SHRK CLR 1.000 2:1
29	4170165	15.00	HEAT SHRK CLR .75 2:1
28	4170164	15.00	HEAT SHRK CLR .500 2:1
27	4170163	15.00	HEAT SHRK CLR .375 2:1
26	4265200	6	CAP 7/8 MALE TURCK
25	4265235	5	BREAKOUT BOX 12 PIN - 8 x 3 PIN
24	4261175	7	DEUTSCH DT06-2S KIT
23	4253961	1	ASSY BLOWER SPD SENSOR CABLE 10 FT
22	4260477	1	ASSY ENGINE FAN SPD SNSR HARNESS
21	4266267	2	CABLE 3PIN M-SPIN 9FT SPD SNSR
20	4286133	1	CABLE 12 PIN AC 5.2M
18	4286130	1	CAN Y MALE - 2 FEM TURCK
17	4265838	2	CABLE EXT CAN 4.3M
16	4286173	4	CABLE EXT 12 PIN 10M
15	4286170	4	CABLE EXT 12 PIN 6M
14	4286169	1	CABLE EXT 12 PIN 5M
13	4286168	6	CABLE EXT 12 PIN 4M
12	4286167	3	CABLE EXT 12 PIN 3M
11	4286161	1	CABLE EXT 12 PIN 1.5M
10	4286160	1	CABLE EXT 12 PIN 1M
9	4270079	1	CABLE 3 PIN SERIES WIRED TEE 1M1M
8	4265234	12	CABLE 3PIN - MX12 4 PIN 1M
7	4265233	3	CABLE 3 PIN - DIN 1M
6	4265232	9	CABLE 3 PIN - OPEN 6M
5	4266241	2	CABLE EXT 3 PIN 10M
4	4266240	6	CABLE EXT 3 PIN 5M
3	4265213	9	CABLE EXT 3 PIN 3M
2	4265231	4	CABLE EXT 3 PIN 2M
1	4265230	4	CABLE EXT 3 PIN 1M

UNLESS OTHERWISE SPECIFIED

TOLERANCES			
DIM	TOL	FRACTIONAL	TOL
X	±.005	0.25"	±.016
XX	±.030	2.5"	±.125
XXX	±.015	OVER .96"	±.0316
ANGLES	±.030	ANGLES	±.1°

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ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS SHALL BE TO THE SURFACE UNLESS OTHERWISE SPECIFIED. WELDED JOINTS SHALL MEET THE MINIMUM OF BASE METAL.

THIRD ANGLE PROJECTION

DOWN BY: bnestor
CHK BY: BBD
APVD BY: JMS

DATE: 2023-06-12

SIZE: 11x17
SHEET: 1 OF 4

ITEM PART NO QTY DESCRIPTION

KOMATSU MINING CORP. **KOMATSU**

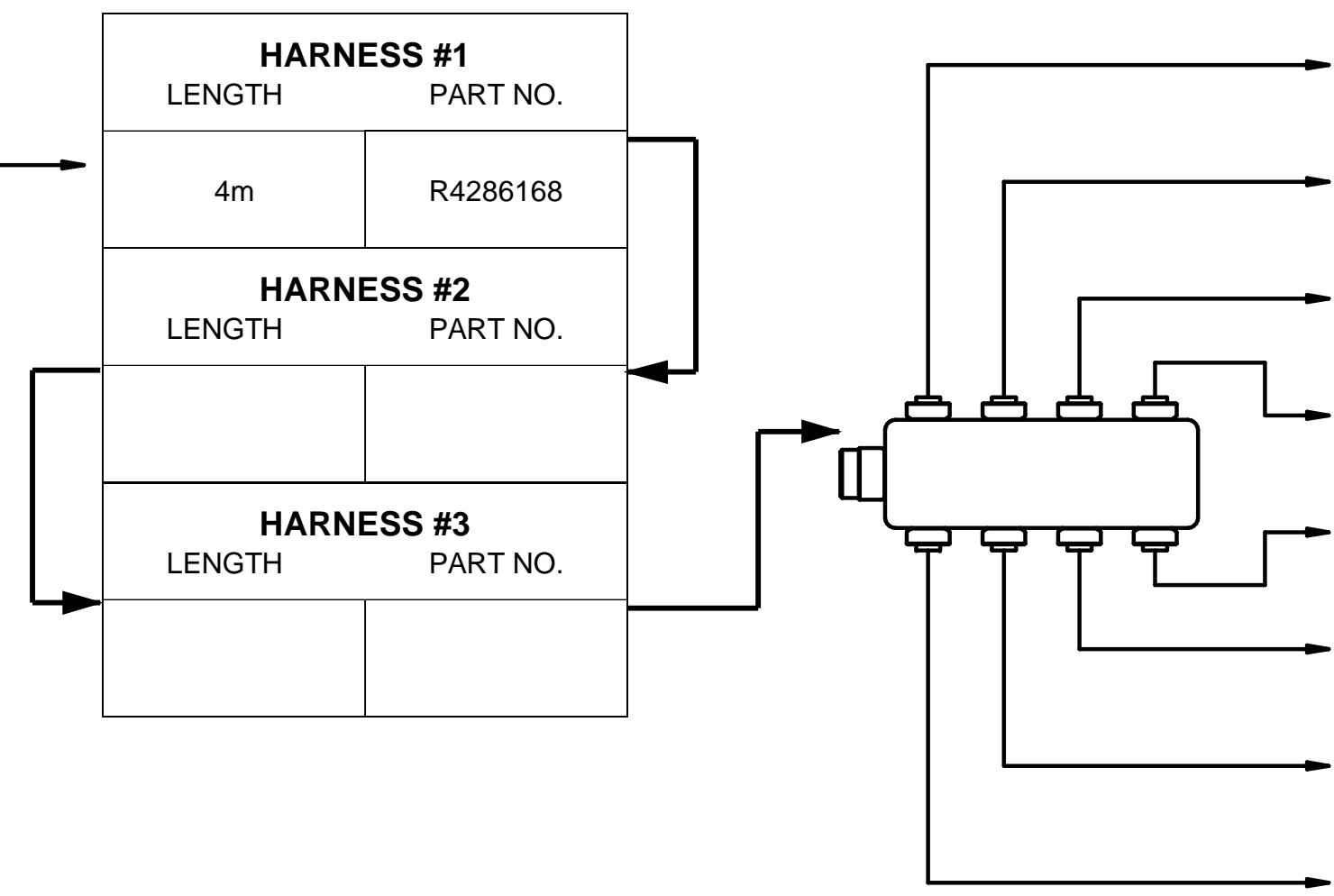
TITLE: **GP RF HARNESS WE1850G3 3&UP**

EST WT (LB) 214.81

REV 03

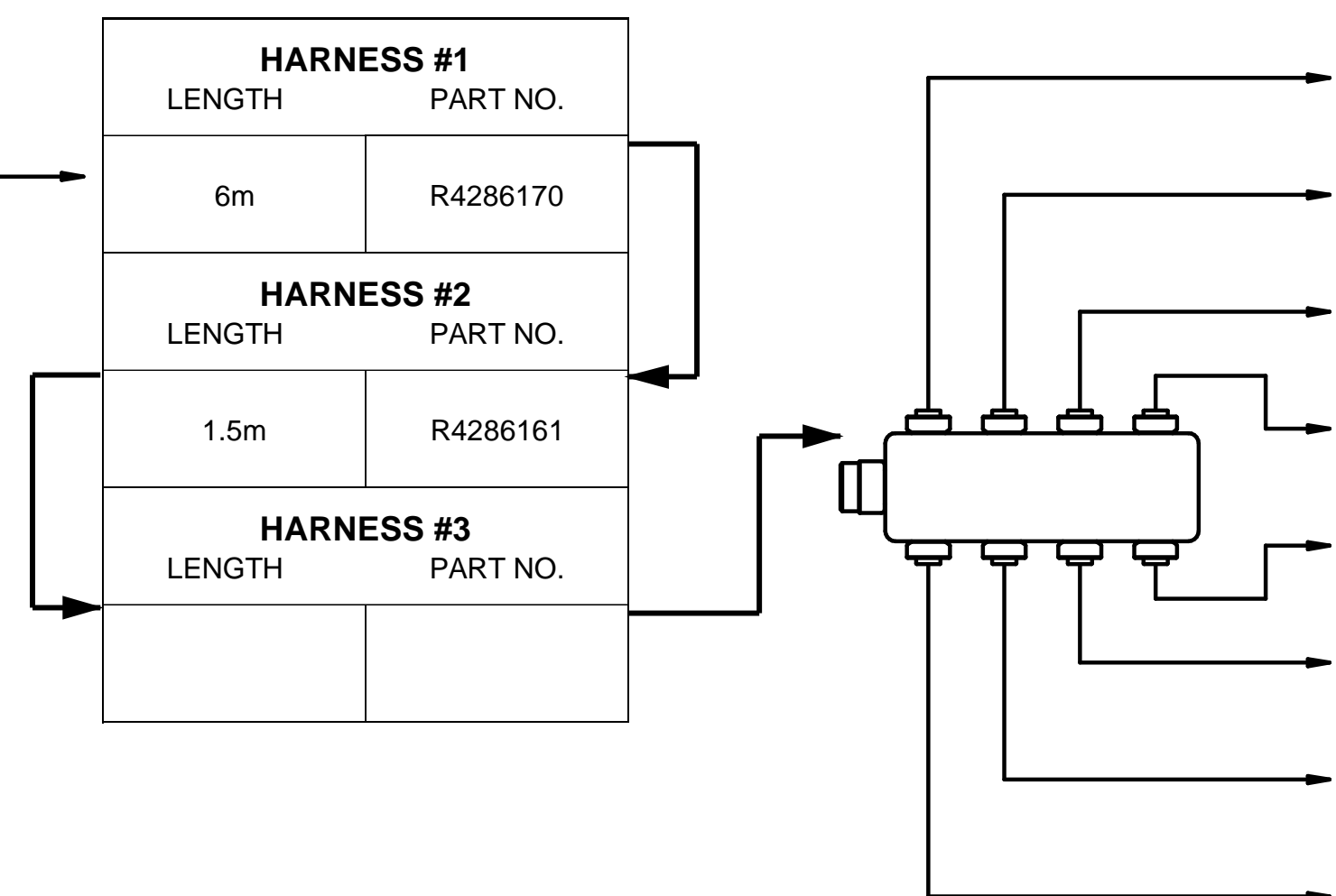
REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	02	IN RFF1 4m WAS 5m, R4267662 WAS R4266240; 1m XDCR WAS 2m, & R4265231 WAS R4265231; RFF2 ADDED 1.5m & R4286161; UPDATED ALL LENGTHS & PART #S IN HARNESS #1; ADDED DIN HEAD CONN & R4240140 IN RFF3	1457229	2023-04-06	BBW	BBD	JMS
	03	UPDATED RFF1-J2 HARNESS; UPDATED RFF2-J1 HARNESS	1460091	2023-06-12	RPK	BBD	JMS

BOX: RFF1
DESCRIPTION: REAR FRAME FRONT #1



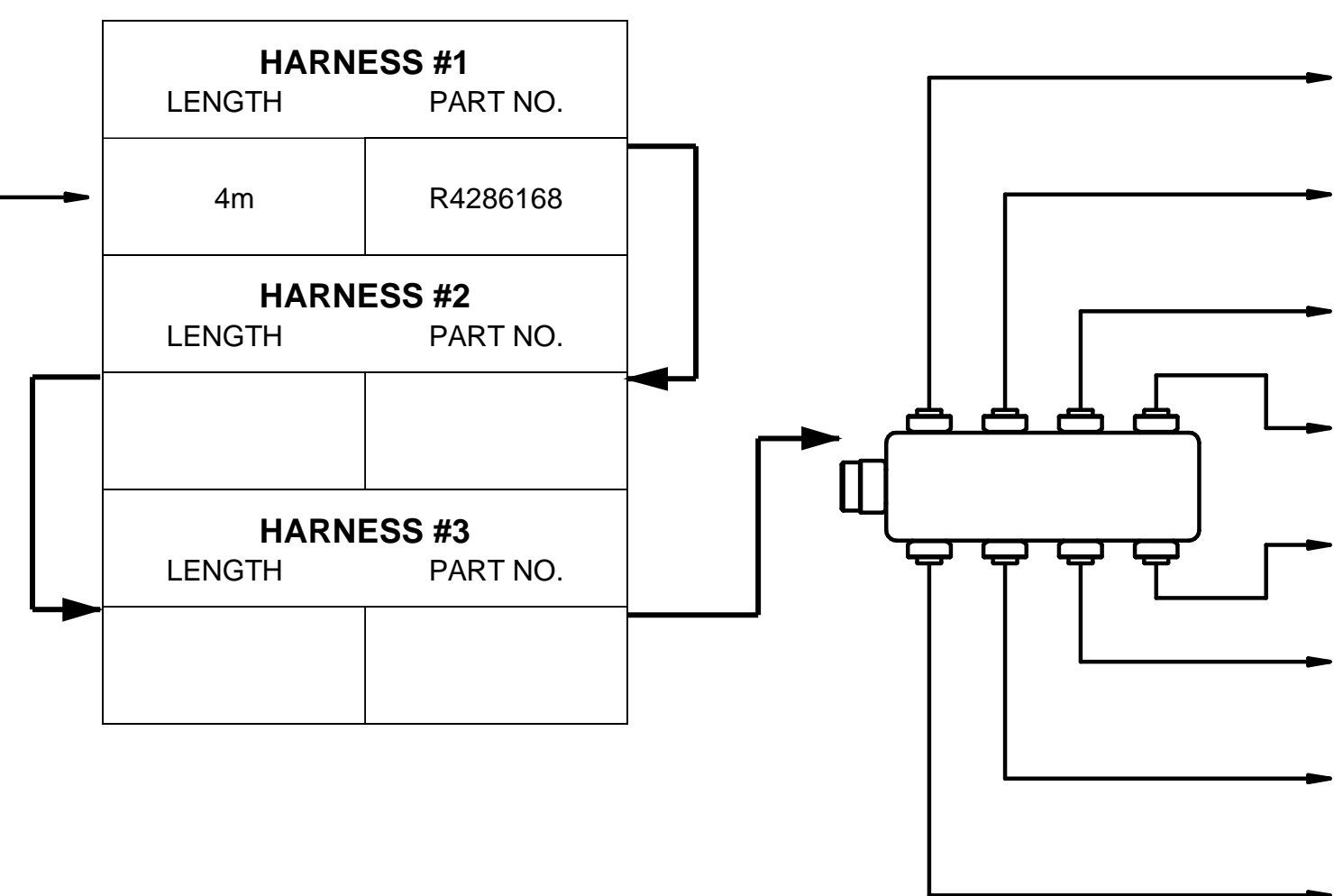
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES						CONNECTOR		PINOUT
			HARNESS #1		HARNESS #2		HARNESS #3		TYPE	PART NO.	
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.			
RFF1-J7	RFF1-05	HYD RESERVOIR LEVEL SWITCH	6m LOW LEVEL	R4292624							
RFF1-J5	RFF1-03	HYD RESERVOIR OIL TEMP XDCR	2m	R4265231	1m XDCR	R4265234					
RFF1-J3	RFF1-09	MAINTENANCE LIGHT MIDDLE RIGHT	6m OPEN	R4265232					2 PIN DEUTSCH	R4261175	BLK = 2, GRN = 1
RFF1-J1	RFF1-07	HYD RESERVOIR AIR PRESS XDCR	1m	R4265230	1m XDCR	R4265234					
RFF1-J2	RFF1-01	VEHICLE SIDE LIGHT RIGHT	6m OPEN	R4265232					2 PIN DEUTSCH	R4261175	BLK = 1, GRN = 2
RFF1-J4	RFF1-02								CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF1-J6	RFF1-04								CAP - MALE TURCK (QTY 1)	R4265200	
RFF1-J8	RFF1-06	STEER LOAD SENSE XDCR	4m	R4267662	1m XDCR	R4265234					

BOX: RFF2
DESCRIPTION: REAR FRAME FRONT #2



HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES						CONNECTOR		PINOUT
			HARNESS #1		HARNESS #2		HARNESS #3		TYPE	PART NO.	
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.			
RFF2-J7	RFF2-05	AUX STEER ENABLE (OPT)	1m	R4265230					CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF2-J5	RFF2-03	AUX STEER SUPPLY PRESS SWITCH (OPT)	1m	R4265230					CAP - MALE TURCK (SUPPLIED WITH TURCK BOX)		
RFF2-J3	RFF2-09	HYD OIL COOLER BYPASS SOL	3m	R4265213	1m DIN	R4265233					
RFF2-J1	24V ONLY	AIR DRYER HEATER	AIR DRYER (6m)	R9015970							
RFF2-J2	RFF2-01	RADIATOR FAN CONTROL SOL	5m	R4266240	1m DIN	R4265233					
RFF2-J4	RFF2-02	BLOWER SPEED CONTROL SOL	5m	R4266240	1m DIN	R4265233					
RFF2-J6	RFF2-04	STEER RIGHT XDCR	2m	R4265231	1m XDCR	R4265234					
RFF2-J8	RFF2-06	STEER LEFT XDCR	2m	R4265213	1m XDCR	R4265234					

BOX: RFF3
DESCRIPTION: REAR FRAME FRONT #3



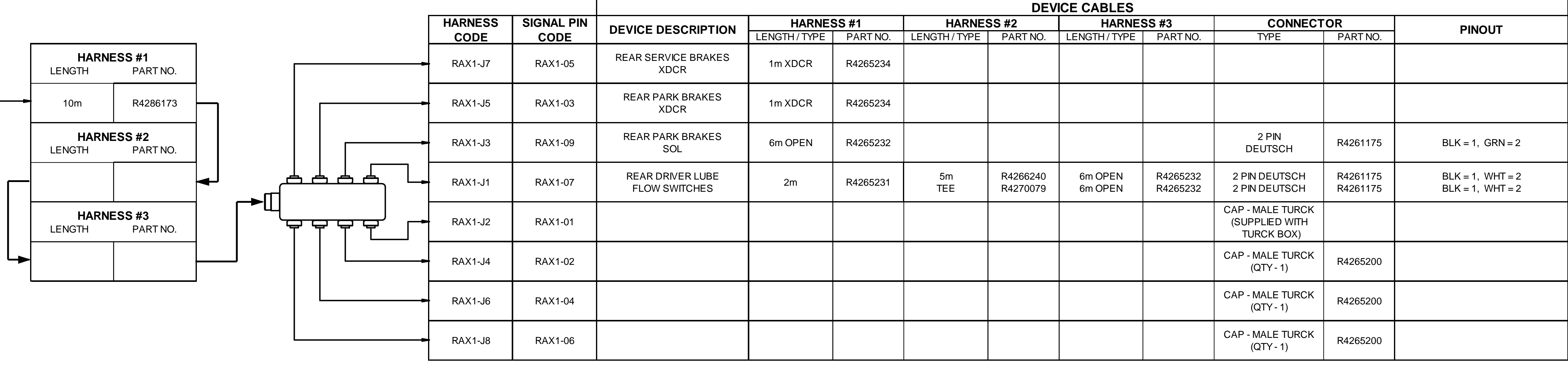
HARNESS CODE	SIGNAL PIN CODE	DEVICE DESCRIPTION	DEVICE CABLES						CONNECTOR		PINOUT
			HARNESS #1		HARNESS #2		HARNESS #3		TYPE	PART NO.	
			LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.			
RFF3-J7	RFF3-05	DRIVE COOL RESERVOIR LEVEL SWITCH	6m LOW LEVEL	R4292624							
RFF3-J5	RFF3-03	SYSTEM AIR PRESS XDCR	3m	R4265213	1m XDCR	R4265234					
RFF3-J3	RFF3-09	HYD TANK DUMP SOL	3m	R4265213	1m	R4301341					
RFF3-J1	RFF3-07	KLENZ RESERVOIR AIR XDCR	3m	R4265213	1m XDCR	R4265234					
RFF3-J2	RFF3-01	AMBIENT AIR TEMPERATURE XDCR	3m	R4265213	1m	R4265230	1m XDCR	R4265234			
RFF3-J4	RFF3-02	BLOWER SPEED SENSOR	5 PIN SPD SNR 9 FT (2.75m)	R4266267	BLOWER SPEED SENSOR 10 FT	R4253961					
RFF3-J6	RFF3-04	STEER POSITION XDCR	1m	R4265230	1m	R4301340					
RFF3-J8	RFF3-06	FIRE SYSTEM STATUS	6m OPEN	R4265232					DIN HEAD CONN	R4240140	WHT= 1, BLK= 3

LOW VOLTAGE CABINET

NOTE:
* INDICATES MACHINE OPTION
--SHOWN FOR REFERENCE ONLY

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	02	NO CHANGE THIS SHEET	1457229	2023-04-06	BBW	BBD	JMS
	03	NO CHANGE THIS SHEET	1460091	2023-06-12	RPK	BBD	JMS

BOX: RAX1
DESCRIPTION: REAR AXLE #1



LOW VOLTAGE CABINET

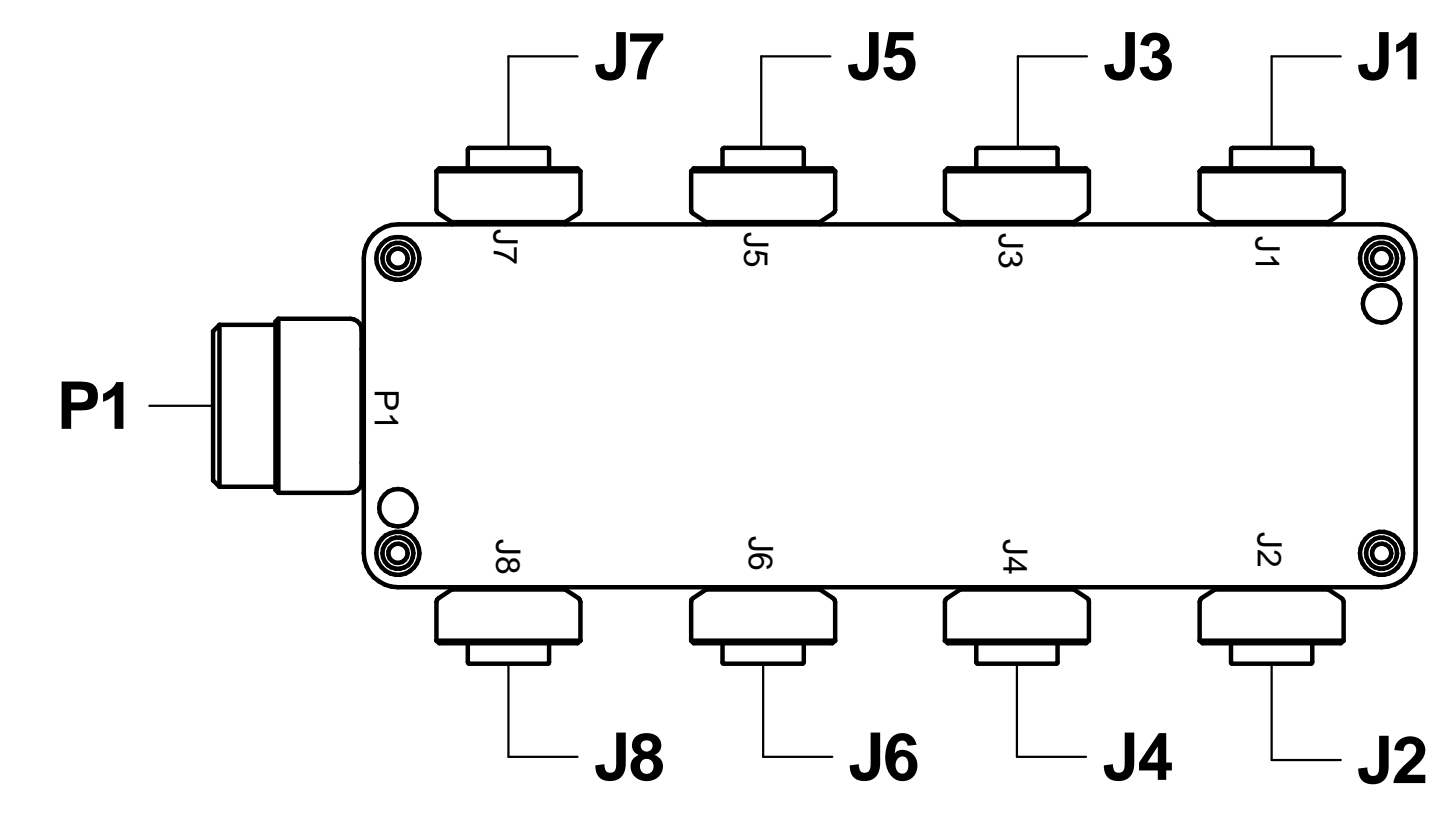
NOTE:
* INDICATES MACHINE OPTION
--SHOWN FOR REFERENCE ONLY

REVISION HISTORY							
ZONE	REV	DESCRIPTION	ECM	DATE	CHG	CHK	APVD
	02	RAD1 WAS RAD2; RAD2 WAS RAD3; 5m WAS 10m 3X; R9010468 WAS R9010458 3X; 5m WAS 10m; ADDED R9010468 4X, SLIT LOOM 4X, & 4259325 4X; ADDED RADIO	1457229	2023-04-06	BBW	BBD	JMS
	03	NOTE *** ASSY WAS R4301270; ADDED * TO CAM LT, CAM RT & CAM RR HARNESS 5m LENGTH	1460091	2023-06-12	RPK	BBD	JMS

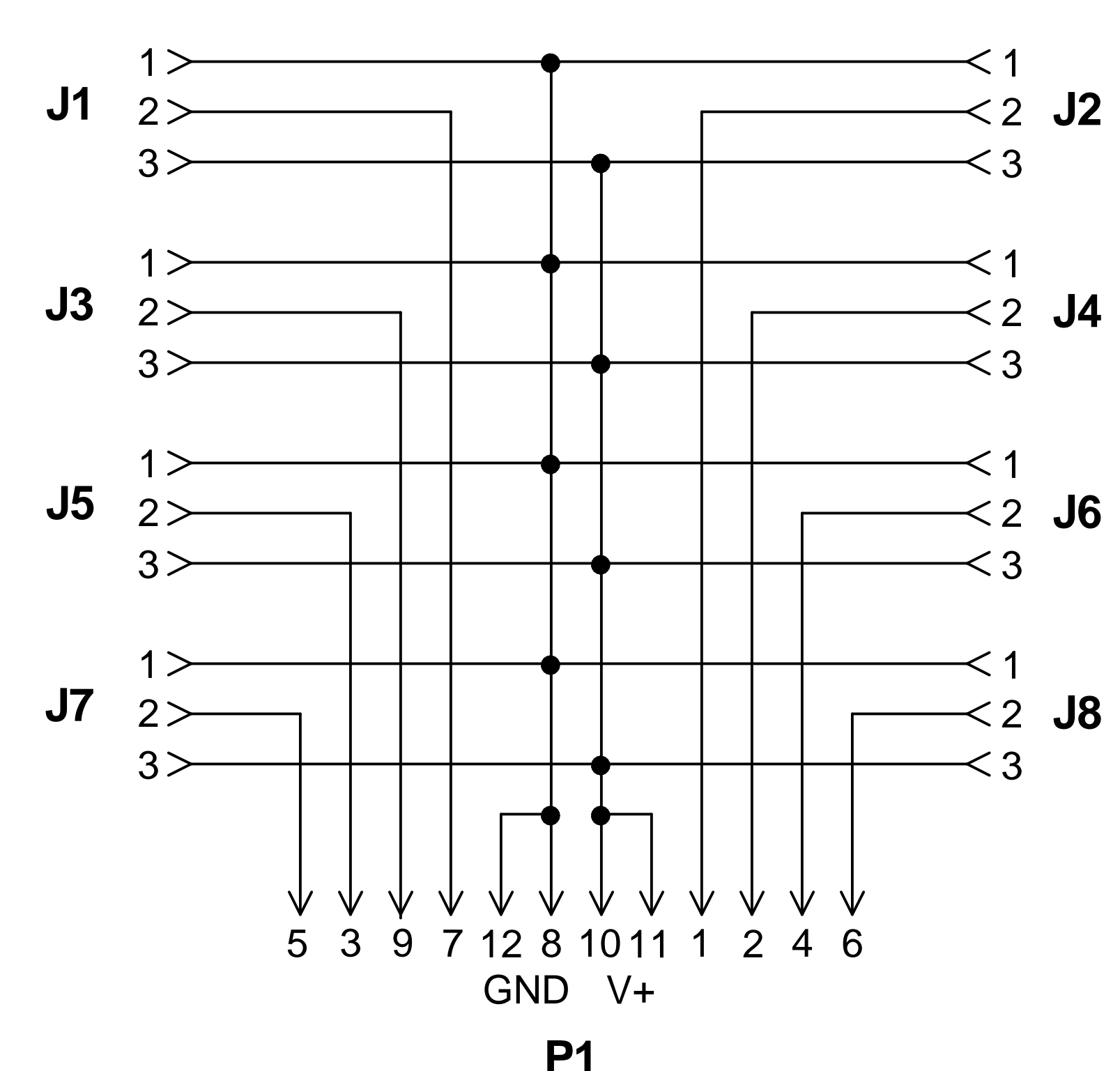
LOW VOLTAGE CABINET

CABLE	DESCRIPTION	HARNESS #1		HARNESS #2		HARNESS #3		CONNECTOR	
		LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	LENGTH / TYPE	PART NO.	TYPE	PART NO.
KLZ1	KLENZ BOX	6m	R4282744						
MBR1	MIRROR BAR	6m	R4286170						
MBR2	MIRROR BAR	6m	R4286170						
DCP1	DRIVE COOLING PUMP	3m	R4286167	**HARNESS	R4302283				
EIC1	ENGINE INTERFACE CABINET	10m	R4286173	4m	R4286168	1m	R4286160		
EIC3	ENGINE INTERFACE CABINET	3m	R4266250	**HARNESS	R4302283	4.3m	R4265838		
	(EIC3 CONT.)	3m	R4266250	CAN Y MALE - 2 FEM	R4286130	4.3m	R4265838		
	(EIC3 CONT.)	1m	R4266249	STEER VALVE	R4282857 R9007735	10m	R4266251		
CSP1	CONTROL SWITCH PANEL	10m	R4286173	3m	R4286167	1m	R4286160		
RCL1	REAR COWL	10m	R4286173	4m	R4286168	2.4m	R4286164		
RCL2	REAR COWL	10m	R4266241	5m	R4266240	1.4m	R4264197		
SRC1	SR CABINET	3m	R4286167	HARNESS PROVIDED AS PART OF SR CABINET ASSY					
SRC2	SR CABINET	3m	R4266250	HARNESS PROVIDED AS PART OF SR CABINET ASSY					
SRC3	SR CABINET	3m	R4266250	HARNESS PROVIDED AS PART OF SR CABINET ASSY					
LLC1	LADDER LIGHT CONTROL	3m	R4265213	3m	R4265213	1m	R4265230		
COND	CAB TO AC CONDENSOR	5.2m	R4286133						
CAM LT	LEFT CAMERA	1m	R9011409	5m	R9010468	***5m	R9010468	SLIT LOOM	4259325
CAM RT	RIGHT CAMERA	1m	R9011409	5m	R9010468	***5m	R9010468	SLIT LOOM	4259325
CAM RR	REAR CAMERA	1m	R9011409	10m	R9010458	***5m	R9010468	SLIT LOOM	4259325
CAM FT	FRONT CAMERA	1m	R9011409	5m	R9010468	5m	R9010468	SLIT LOOM	4259325
RAD1	RADIO POWER	3m	R4282850						
RAD2	RADIO E-NET	1.5m	R4264195	1.5m	R4264195				
HPD1	GEARBOX 1	4m	R4286168						
HPD2	GEARBOX 2	4m	R4286168						

**BREAKOUT BOX 12 PIN - 8 X 3 PIN
(PN: R4265235)
(ALL BOXES EXCEPT EST1)**

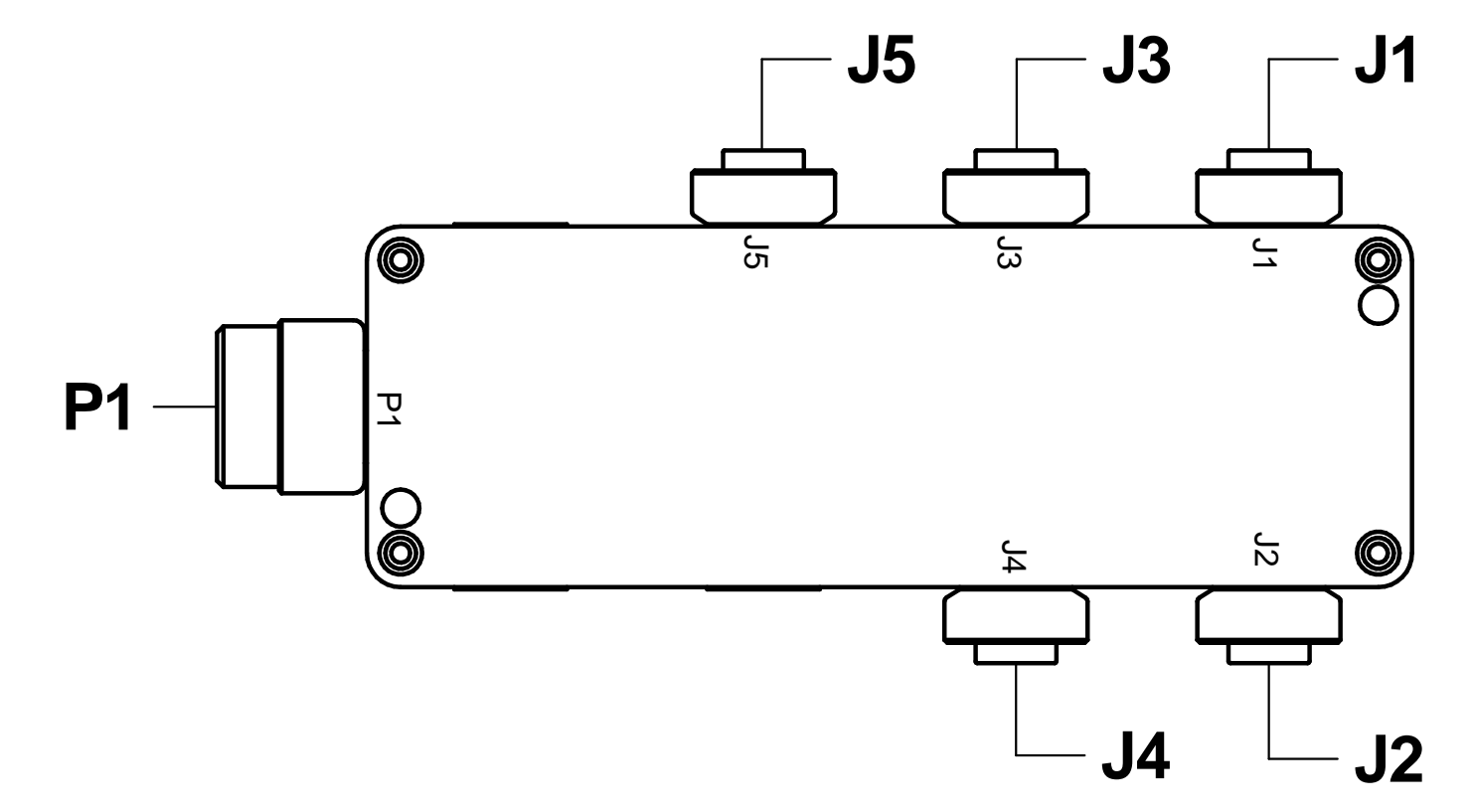


TOP VIEW - BREAKOUT BOX

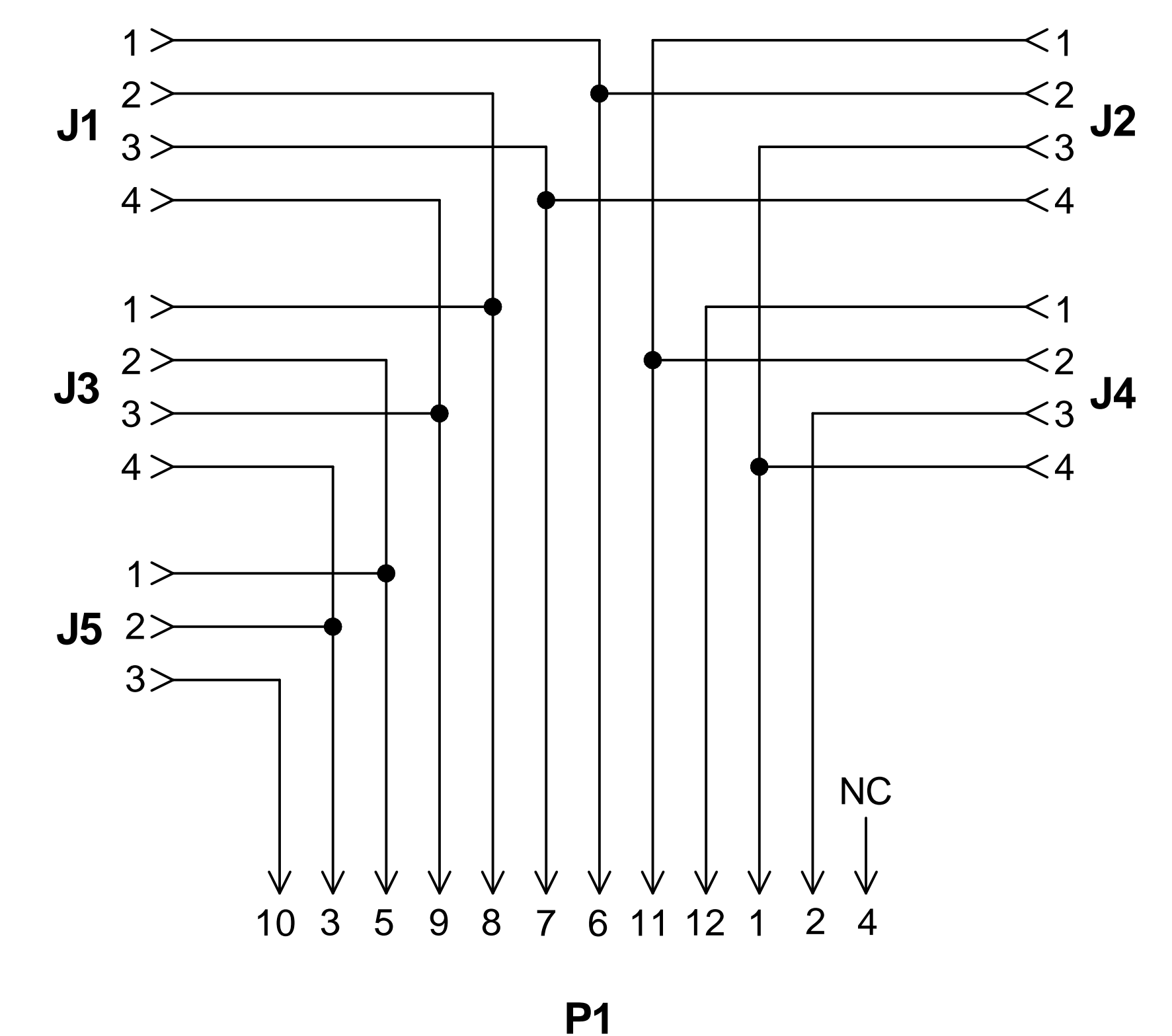


SCHMATIC - BREAKOUT BOX

**BREAKOUT BOX - 5 PORT
(PN: R4274507)
(EST1 BOX ONLY)**



TOP VIEW - BREAKOUT BOX



SCHMATIC - BREAKOUT BOX

ISOLATION BOX

CABLE	DEVICE DESCRIPTION	LENGTH/TYPE	PART NO.	PINOUT
CSP2	LADDER LIMIT SWITCH	6m OPEN	R4265232	GRN = NO CONNECTION WHT & BLK = CONNECT TOGETHER AT ONE SIDE OF THE LIMIT SWITCH TERMINAL

RADIO

CABLE	DEVICE DESCRIPTION	LENGTH/TYPE	PART NO.
ANT 1	ANTENNA 1	20 FT	R4301346
ANT 2	ANTENNA 2	20 FT	R4301346
ANT 3	ANTENNA 3	20 FT	R4301346

NOTE:
 * INDICATES MACHINE OPTION
 --- SHOWN FOR REFERENCE ONLY.
 ** INCLUDED IN ASSY R4302282
 *** INCLUDED IN ASSY R9007738
 **** INCLUDED IN ASSY R4301266