

CONNECTOR INFORMATION FOR DIAGRAM: P94-2017

REF_DES	NUMBER OF CAVITIES	ON SHEET	PART NUMBER	DESCRIPTION	LOCATION OF CONNECTOR
J001	18	5	P20-1258-2118-DD10G	AMP, MCP 1.5K, 18 WAY, SEALED	FIREWALL
J01	47	3	P20-1134-47-3-0	BLACK, DEUTSCH, HDP20, RECEPTACLE	FIREWALL, CENTER AT PASS-THRU PLATE
J002	16	5	P20-1258-2116-DD30G	AMP, MCP 1.5K/2.8K, 16 WAY, SEALED	FIREWALL
J02	1	7	K333-537-3	RING, TERMINAL, (1/4")	BATTERY BOX
J005	1	8	P20-1112	BLACK, AMP 1/4" RECEPTACLE	CLUTCH PEDAL BRACKET
J6	1	7	K333-537-3	BLACK, DEUTSCH, DTHD SERIES, SEALED	CHASSIS LOAD CENTER
J7	15	5	P20-1258-2115-0030A	AMP, MCP 1.5K/2.8K, 15 WAY, SEALED	FIREWALL, NEAR CLC
J008	1	8	P20-1112	BLACK, AMP 1/4" RECEPTACLE	CLUTCH PEDAL BRACKET
J017	12	5	P20-1258-1212-DD104	AMP, MCP 2.8, 12 WAY, SEALED	DEF TANK MODULE
J019	12	5	P20-1258-1112-DD104	AMP, MCP 1.5K, 12 WAY, SEALED	DEF TANK MODULE
J021	24	8	P20-1172-1224	BLACK AMP, MOS SERIES, UNSEALED	ECU HOTEL, CAB CECU 2 (B)
J034	10	8	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J035	6	5	K333-580	BLACK, DEUTSCH, DT SERIES, SEALED	FRAME, LH SIDE UNDER CAB
J036	10	8	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #2
J037	10	8	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J038	10	8	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J039	10	8	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J39	14	3	P20-1173-1214	BLACK, AMP JPT 2 ROW SERIES, UNSEALED	CAB, AT SPEEDO/TACH GAUGE CLUSTER
J040	10	8	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J43	40	3, 4	P20-1172-1240	BLACK, AMP MOS SERIES, UNSEALED	CAB, AT CECU BEHIND KICK PANEL
J099	18	8	P20-1131-1518	GRAY, AMP, MCP SERIES, UNSEALED	BEHIND DASH AREA #4
J0100	1	4	P20-1112	BLACK, AMP 1-WAY, UNSEALED	BEHIND THE DASH AREA#4
J106	4	9	P20-1085	BLACK, PACKARD, METRI-PACK 150 SERIES, UNSEALED	STEERING COLUMN
J0110	1	4	P20-1112	BLACK, AMP 1-WAY, UNSEALED	BEHIND DASH AREA#4
J114	6	6	P20-1194-20	BLUE, AMP J1939 TERMINATING RESISTOR ASSY	DEF MODULE
J115	18	9	P20-1131-1518	GRAY, AMP, MCP SERIES, UNSEALED	BEHIND DASH AREA #4
J118	2	3	K333-549-292	GRAY, PACKARD M/P 280 SERIES UNSEALED	CAB, CENTER BEHIND DASH
J120	2	10	K333-550-102	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	ENGINE, TOP REAR LH SIDE
J121	1	10	K333-36	BLACK, MOLDED, BULLET, 90 DEG	FIREWALL, AT GRID HEAT RELAY
J122	1	10	K333-36	BLACK, MOLDED, BULLET, 90 DEG	FIREWALL, AT GRID HEAT RELAY
J140	9	8	P20-1183-1209	CONNECTOR - BLACK AMP JPT 9-WAY	ECU HOTEL, CAB CECU 1 (A)
J148	2	3	P20-1193-1102G	BLACK, AMP SUPERSEAL SERIES, SEALED	CAB, LH SIDE BEHIND DASH
J0201	4	4	P20-1065	BLACK, METRI-PACK 150-SERIES, UNSEALED	BEHIND LH SWITCH PANEL
J201	3	10	K333-552	BLACK, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, TOP REAR LH SIDE
J0300	4	4	P20-1065	BLACK, METRI-PACK 150-SERIES, UNSEALED	BEHIND LH SWITCH PANEL
J302	1	9	K333-33	MOLDED, FEMALE BULLET	BEHIND DASH AREA #2
J303	1	9	K333-33	MOLDED, FEMALE BULLET	BEHIND DASH AREA #2
J304	1	9	K333-33	MOLDED, FEMALE BULLET	BEHIND DASH AREA #2
J305	1	9	K333-33	MOLDED, FEMALE BULLET	BEHIND DASH AREA #2
J0340	10	4	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J0341	10	4	P20-1191-3	BLACK, PACKARD, METRI-PACK 630 SERIES, UNSEALED	BEHIND DASH AREA #4
J0400	4	4	K333-586-104	BLACK, PACKARD METRI-PACK 150 SERIES, UNSEALED	BEHIND DASH AREA #4
J0401	4	4	K333-586-204	BLACK, PACKARD METRI-PACK 150 SERIES, UNSEALED	BEHIND DASH AREA #4
J931	12	6	P20-1258-1112-DD104	AMP, MCP 1.5K, 12 WAY, SEALED	DEF MODULE
J935	4	6	P20-1193-1204T	AMP, SUPERSEAL 1.5, 4 WAY, BLACK, SEALED	DEF MODULE
J936	4	6	P20-6140	FCI, APEX, 4 WAY, BLACK, SEALED	DEF MODULE
J951	2	6	P20-6187-003	DEUTSCH, DT SERIES, 2 WAY, BLACK, SEALED	ON BACK OF DEF TANK
J952	2	6	P20-6187-001	DEUTSCH, DT SERIES, 2 WAY, BLACK, SEALED	ON BACK OF DEF TANK
J953	2	6	P20-6187-002	DEUTSCH, DT SERIES, 2 WAY, BLACK, SEALED	ON BACK OF DEF TANK
J003-1	4	5	P20-6138	CONNECTOR_FCI_4-WAY-HIGH-HEAT	FRAME, LH SIDE UNDER CAB
J004-1	4	5	P20-6139	LT GRAY, FRAMATOME, APEX SERIES, SEALED	FRAME, LH SIDE UNDER CAB
J012-1	16	5	P20-6137	FCI, 14 WAY, SEALED	ENGINE, REAR MIDDLE LH SIDE
J019-1	1	7	K333-550-101	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	FRAME, LH RAIL UNDER CAB
J027-1	6	7	P20-6028-400	BLACK, DEUTSCH HDP, SOCKET, RECEPTACLE, SEALED	NEAR BATTERY BOX
J03-2	2	7	P20-1103	BLACK, PACKARD MP630 SINGLE FUSE BLOC, SEALED	BATTERY BOX
J039-1	4	5	P20-1282-11041	BLACK, AMP, 2.5MM CIRCULAR SERIES, SEALED	DEF TANK HEATER VALVE
J041-1	7	7	K333-550-107	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	NEAR PD BOX
J108B	2	10	K333-562-102-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, NEAR A/C DISCHARGE LINE
J108D	2	10	K333-562-102-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, NEAR A/C DISCHARGE LINE
J122-1	2	2	P20-1158-102	GRAY, DEUTSCH, DTP SERIES, SEALED	ENGINE, LH SIDE
J145C	2	10	K333-550-102	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	FRAME, NEAR PWR STG TEMP SW
J145D	2	10	K333-550-102	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	FRAME, NEAR PWR STG TEMP SW
J150-1	9	3	P20-1131-1209	YELLOW, AMP 3 ROW MCP, UNSEALED	CAB, CENTER BEHIND DASH
J3-1	1	7	T116-3285-02	9.5MM TERMINAL (YAZAKI)	CHASSIS LOAD CENTER
J4-1	1	7	T116-3285-02	9.5MM TERMINAL (YAZAKI)	CHASSIS LOAD CENTER
J7-1	15	7	P20-1258-1115-0030A	BLACK, TYCO HDSCS, SEALED	FIREWALL, NEAR CLC
J932-1	12	6	P20-1258-2112-00104	AMP, MCP 1.5K, 12 WAY, SEALED	DEF TANK MODULE
J933-1	12	6	P20-1258-2212-00104	AMP, MCP 1.5K, 12 WAY, SEALED	DEF TANK MODULE
J945-1	2	6	P20-6134	BLACK, BOSCH 2-WAY, KOMPAKT, SEALED	DEF MODULE
P04	9	3	P20-1199-1	BLACK, GLASSMASTER 9-WAY SEALED	CAB, LH SIDE BEHIND DASH
P06	2	3	P20-1036	BLACK, PACKARD METRI-PACK 150 SERIES UNSEALED	CAB, LH SIDE BEHIND DASH
P015	2	5	P20-1082	BLACK, PACKARD, METRI-PACK 150 SERIES, SEALED	TRANSMISSION, AT SPEED SENSOR
P18	2	3	K333-549-192	GRAY, PACKARD M/P 280 SERIES UNSEALED	CAB, CENTER BEHIND DASH
P019	1	7	K333-550-201	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	FRAME, LH RAIL UNDER CAB
P020	29	7	P20-1133-29-5-0	BLACK, DEUTSCH, HDP20 SERIES, PLUG, SEALED	FIREWALL, AT PD BOX
P022	2	7	P20-1285-102	BLUE, AECs, 1.5mm BLADE, SEALED	FRAME, LH RAIL BOS
P028	1	8	K333-598	BLACK, ELECTRO-WIRE	BEHIND DASH AREA #2
P029	1	8	K333-598	BLACK, ELECTRO-WIRE	BEHIND DASH AREA #2
P030	21	7	P20-1274-001	BLACK, AMP, MCP SERIES, SEALED	AT CHASSIS NODE, PORT A
P035	6	5	K333-581	BLACK, DEUTSCH DT SERIES, SEALED	FRAME, LH SIDE UNDER CAB
P60	2	3	P20-1036	BLACK, PACKARD METRI-PACK 150 SERIES UNSEALED	CAB, LH SIDE BEHIND DASH
P099	18	8	P20-1132-1518	GRAY, AMP, MCP SERIES, UNSEALED	BEHIND DASH AREA #4
P0100	2	4	P20-1079	NATURAL, MOLEX MINI FIT, UNSEALED	BEHIND DASH AREA#3
P101	96	2, 5	P20-6231	BLACK, DELPHI 96-WAY SEALED	ENGINE, LH SIDE
P0102	2	4	P20-1079	NATURAL, MOLEX MINI FIT, UNSEALED	BEHIND DASH AREA#3
P103	47	2	P20-1133-47-5-2	BLACK, DEUTSCH, HDP20 SERIES, SEALED	FIREWALL
P105	6	2	P20-1238-1106N2	GRAY, DEUTSCH, DTM SERIES, SEALED W/ENDCAP	ENGINE
P106	6	9	K333-566	NATURAL, MOLEX MINI FIT, UNSEALED	BEHIND HEATER CONTROLS
P108	2	2	K333-562-202-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE
P110	3	2	K333-553	BLACK, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, FRONT
P114	2	2	P20-1193-1202G	BLACK, AMP SUPERSEAL SERIES, SEALED	ENGINE, TOP LH SIDE
P115	14	9	P20-1051	NATURAL, MOLEX MINI FIT, UNSEALED	BEHIND HEATER CONTROLS

CONNECTOR INFORMATION FOR DIAGRAM: P94-2017

REF_DES	NUMBER OF CAVITIES	ON SHEET	PART NUMBER	DESCRIPTION	LOCATION OF CONNECTOR
P118	2	2	K333-516	BLACK, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE
P119	2	2	P20-1040	BLACK, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE
P120	2	10	K333-550-202	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	ENGINE, TOP REAR LH SIDE
P124	12	2	K333-584-1	GRAY, DEUTSCH, DT SERIES, SEALED	FIREWALL, LH SIDE
P146	6	3	P20-1228	BLACK, DELPHI, GT150 SERIES, SEALED	CAB, AT THROTTLE PEDAL SENSOR
P148	2	3	P20-1193-1202G	BLACK, AMP SUPERSEAL SERIES, SEALED	CAB, LH SIDE BEHIND DASH
P150	2	2	K333-506	BLACK, DEUTSCH, DT SERIES, SEALED	ENGINE
P0200	4	4	P20-1064	NATURAL, PACKARD, METRI-PACK 150 SERIES, UNSEALED	BEHIND LH SWITCH PANEL
P201	3	10	K333-553	BLACK, PACKARD, METRI-PACK 150 SERIES, SEALED	FIREWALL, AT COOLANT LEVEL SENSOR
P302	1	9	K333-41	BLACK, MOLDED, MALE BULLET	BEHIND DASH AREA #2
P303	1	9	K333-41	BLACK, MOLDED, MALE BULLET	BEHIND DASH AREA #2
P304	1	9	K333-41	BLACK, MOLDED, MALE BULLET	BEHIND DASH AREA #2
P305	1	9	K333-41	BLACK, MOLDED, MALE BULLET	BEHIND DASH AREA #2
P0550	2	4	K333-506	BLACK, DEUTSCH DT SERIES, SEALED	BEHIND THE DASH AREA#4
P001-1	18	5	P20-1258-1118-00104	BLACK, AMP MCP 1.5K, 18 WAY, SEALED	FIREWALL
P001-3	1	7	K333-536-3	BLACK, DEUTSCH, DTHD SERIES, SEALED	NEAR PD BOX
P002-1	16	5	P20-1258-1116-00304	BLACK, AMP MCP 1.5K, 16 WAY, SEALED	FIREWALL
P003-1	2	5	K333-506	BLACK, DEUTSCH 2 WAY, DT SERIES, SEALED	FUEL FILTER, AT W/F SENSOR
P014-1	18	5	P20-1133-23-3-2	BLACK, DEUTSCH, HDP20 SERIES	FRAME, NEAR DPF/SCR
P014-2	23	6	P20-1134-23-3-3	BLACK, DEUTSCH, HDP20 SERIES, PLUG, SEALED	CHASSIS FRAME
P017-3	8	6	P20-1238-2108D1	BLACK, DEUTSCH, DTM SERIES, SEALED	DPF/SCR
P018-1	12	6	P20-1238-2112G1	BLACK, DEUTSCH DTM SERIES 12-WAY, SEALED	DPF/SCR
P02-1	2	7	P20-1158-202	GRAY, DEUTSCH DTP, SEALED	ENGINE, LH SIDE
P027-1	6	7	P20-6027-200	BLACK, DEUTSCH, HDP20 SERIES, PLUG, SEALED	NEAR BATTERY BOX
P041-1	7	7	K333-550-207	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	NEAR PD BOX
P108A	2	10	K333-562-202-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, AT A/C HIGH PRESS SW
P108B	2	10	K333-562-202-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, NEAR A/C DISCHARGE LINE
P108C	2	10	K333-562-202-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, AT A/C HIGH PRESS SW
P108D	2	10	K333-562-202-1	LT-GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	ENGINE, NEAR A/C DISCHARGE LINE
P114-1	2	6	P20-1193-1202G	BLACK, AMP SUPERSEAL SERIES, SEALED	DEF MODULE
P144A	3	10	P20-1252	GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	FRAME, AT PWR STG TEMP SW
P144B	3	10	P20-1252	GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	FRAME, AT PWR STG TEMP SW
P144C	3	10	P20-1252	GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	FRAME, AT PWR STG TEMP SW
P144D	3	10	P20-1252	GRAY, PACKARD, METRI-PACK 150 SERIES, SEALED	FRAME, AT PWR STG TEMP SW
P145C	2	10	K333-550-202	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	FRAME, NEAR PWR STG TEMP SW
P145D	2	10	K333-550-202	BLACK, PACKARD, METRI-PACK 280 SERIES, SEALED	FRAME, NEAR PWR STG TEMP SW
R022	2	7	P20-1284	BLUE, AECs, 1.5mm BLADE, SEALED	FRAME, LH RAIL BOS
R114	2	2	P20-1194-20	BLUE, AMP, J1939 TERMINATING RESISTOR ASSY	ENGINE, TOP LH SIDE
T01	1	7	K333-46-7	RING TERMINAL, (3/8")	BATTERY BOX
T02	1	10	K333-46-38	RING, TERMINAL, (5/16")	FIREWALL, AT GRID HEAT RELAY
T03	1	10	K333-46-38	RING, TERMINAL, (5/16")	FIREWALL, AT MEGA FUSE
T04	1	10	K333-46-32	RING, TERMINAL, (1/2")	ENGINE, AT STARTER POSITIVE
T05	1	10	K333-46-22	RING, TERMINAL, (1/4")	ENGINE, TOP REAR LH SIDE
T06	1	10	K333-46-38	RING, TERMINAL, (5/16")	FIREWALL, AT GRID HEAT RELAY
T07	1	10	K333-46-25	RING, TERMINAL, (3/8")	FIREWALL, AT MEGA FUSE
T101	1	2	K333-46-11	RING, TERMINAL, (3/8")	ENGINE, LH SIDE
T102	1	2	K333-46-7	RING, TERMINAL, (3/8")	ENGINE, LH SIDE
T133	1	8	K333-46-19	RING, TERMINAL, (5/16")	FIREWALL GROUND STUD, ENGINE SIDE
T01-1	1	7	K333-46-14	RING, TERMINAL, (1/4")	AT PDC IN BATTERY BOX
T1-1	1	7	K333-46-20	RING, TERMINAL, (3/8")	FIREWALL, LH SIDE

GENERAL NOTES:

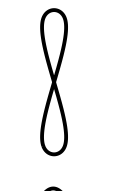
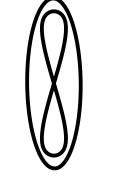

- USE ON C500/T470/T660/T800/W900 CHASSIS WITH 12-12V ELECTRICAL SYSTEM WITH NAMUX 111 INSTRUMENTATION AND 2013 EMISSIONS COMPLIANT CUMMINS PX-9, ISX 12, OR ISX 15 ENGINE EQUIPPED WITH THE CM2350 CONTROLLER.
- HOW TO USE THIS DIAGRAM: EACH CONNECTOR HAS A DISTINCT ALPHANUMERIC "REFERENCE DESIGNATOR" OR "REF DES" ASSOCIATED WITH IT. USE THIS REF DES TO FIND CONNECTOR INFORMATION IN THE CONNECTOR INFORMATION TABLE.
- LEGEND:
 -  TWISTED PAIR
 -  TWISTED JACKETED PAIR
-  DESIGNATES A REFERENCE POINT ON ANOTHER SHEET OR DIAGRAM.
- WIRE SIZE IN DIAGRAM IS SPECIFIED IN METRIC UNITS PER SAE STANDARDS J1127 & J1128. TABLE 1 PROVIDED FOR CROSS REFERENCE TO AMERICAN WIRE GAUGE (AWG) UNITS.

TABLE 1: WIRE GAUGE

METRIC (mm ²)	STANDARD (AWG)	METRIC (mm ²)	STANDARD (AWG)
0.35	22	5.0	10
0.5	20	8.0	8
0.8	18	13.0	6
1.0	16	19.0	4
2.0	14	32.0	2
3.0	12	40	1

SEE REFERENCE DIAGRAM INDEX P94-1859 FOR APPROPRIATE DIAGRAM.

1. THIS DRAWING AND THE INFORMATION CONTAINED HEREIN ARE PROPRIETARY TO PACCAR, INC. UNLESS OTHERWISE NOTED AND SHALL NOT BE REPRODUCED, COPIED OR DISCLOSED IN WHOLE OR IN PART, OR USED FOR MANUFACTURE OR FOR OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION OF PACCAR, INC.

2. DIMENSIONING AND TOLERANCING PER PACCAR CS0108.

3. SHOW ALL DIMENSIONS: BREAK SHARP EDGES.

4. PART IDENTIFICATION AND TRACEABILITY REQUIREMENTS TO COMPLY WITH PACCAR CS0108.

5. THIS DRAWING/SPECIFICATION USES SYMBOLS TO CLASSIFY CHARACTERISTICS. THESE SYMBOLS ARE DEFINED IN THE PACCAR SUPPLIER QUALITY STANDARD.

6. EMISSION-RELATED PARTS: CODE "E" SEE PACCAR CS0314 FOR REQUIREMENTS.

TOLERANCES UNLESS OTHERWISE SPECIFIED: ANGLE: ± 1° (X, X) ± 0.5°

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

DIMENSION UNITS: MILLIMETERS

PACCAR

DRAWING: P94-2017

REV: B

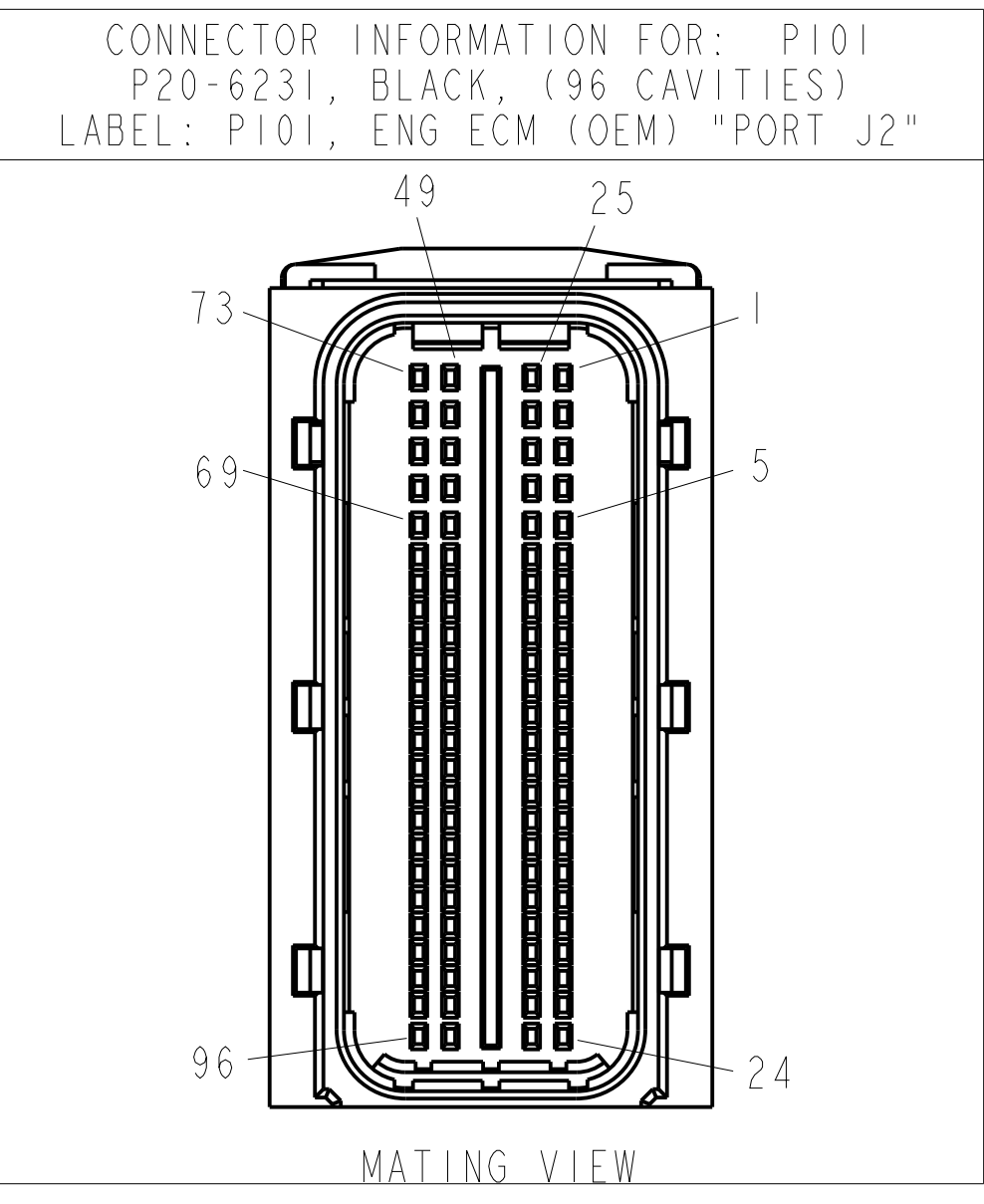
SCALE: NONE

DRAWING VERSION: B.9

SHEET 1 OF 11

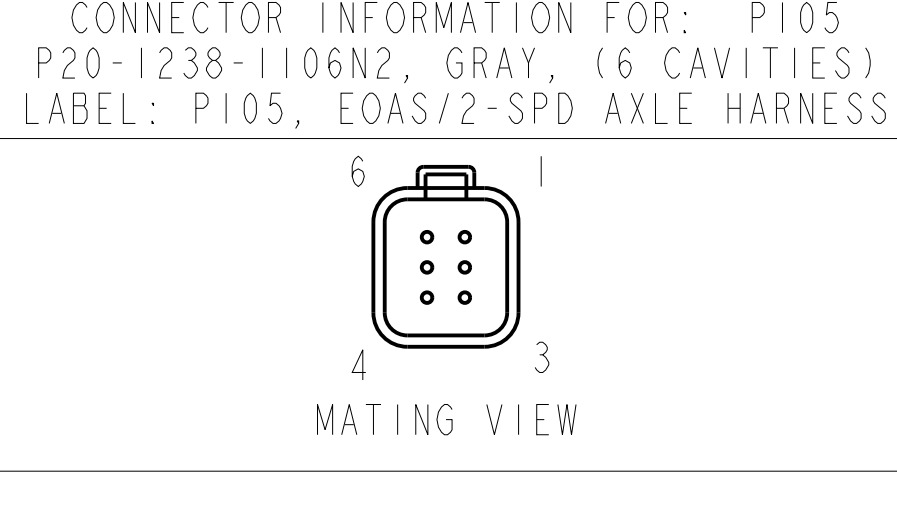
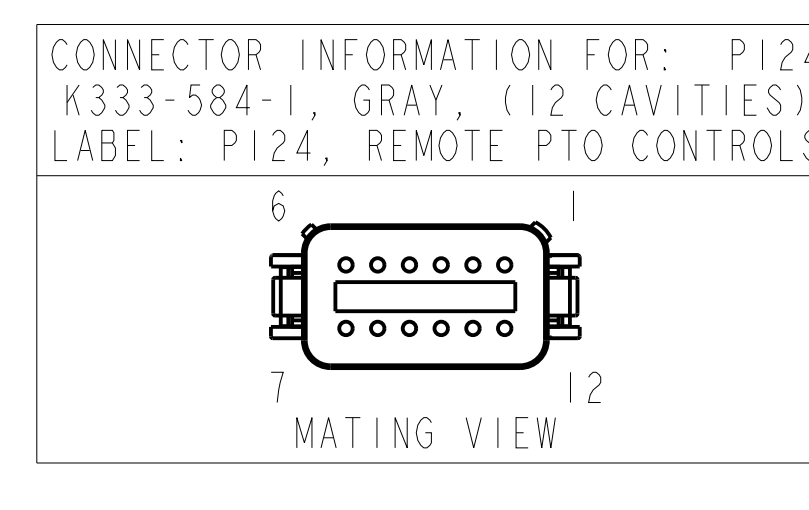
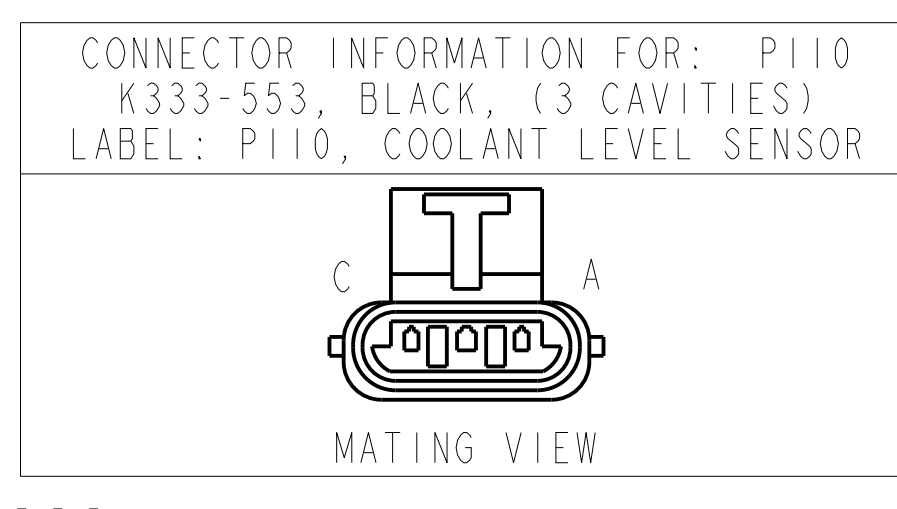
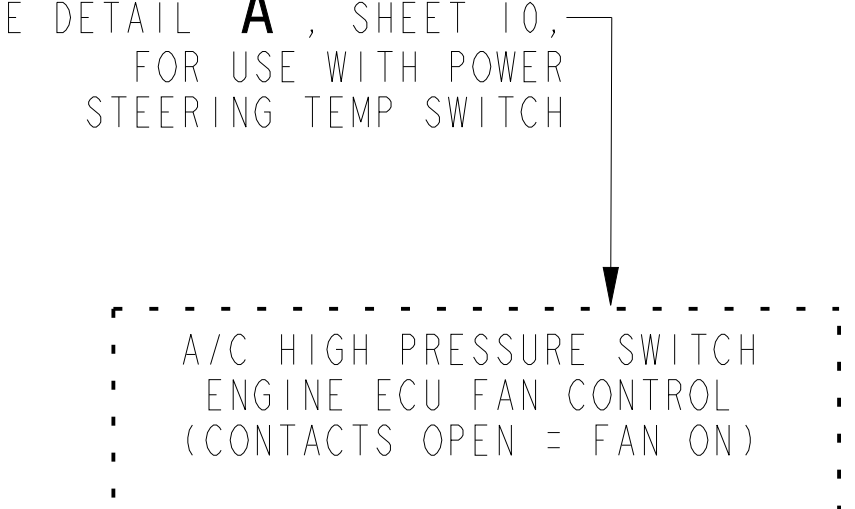
DIAG - SYS, CUMMINS 2013 BC

DWG SIZE: A0



THIS CIRCUIT ONLY INCLUDED WHEN CHASSIS EQUIPPED WITH PX-9 ENGINE.

THIS CIRCUIT ONLY INCLUDED WHEN CHASSIS EQUIPPED WITH ISX12 OR ISX15 ENGINES.

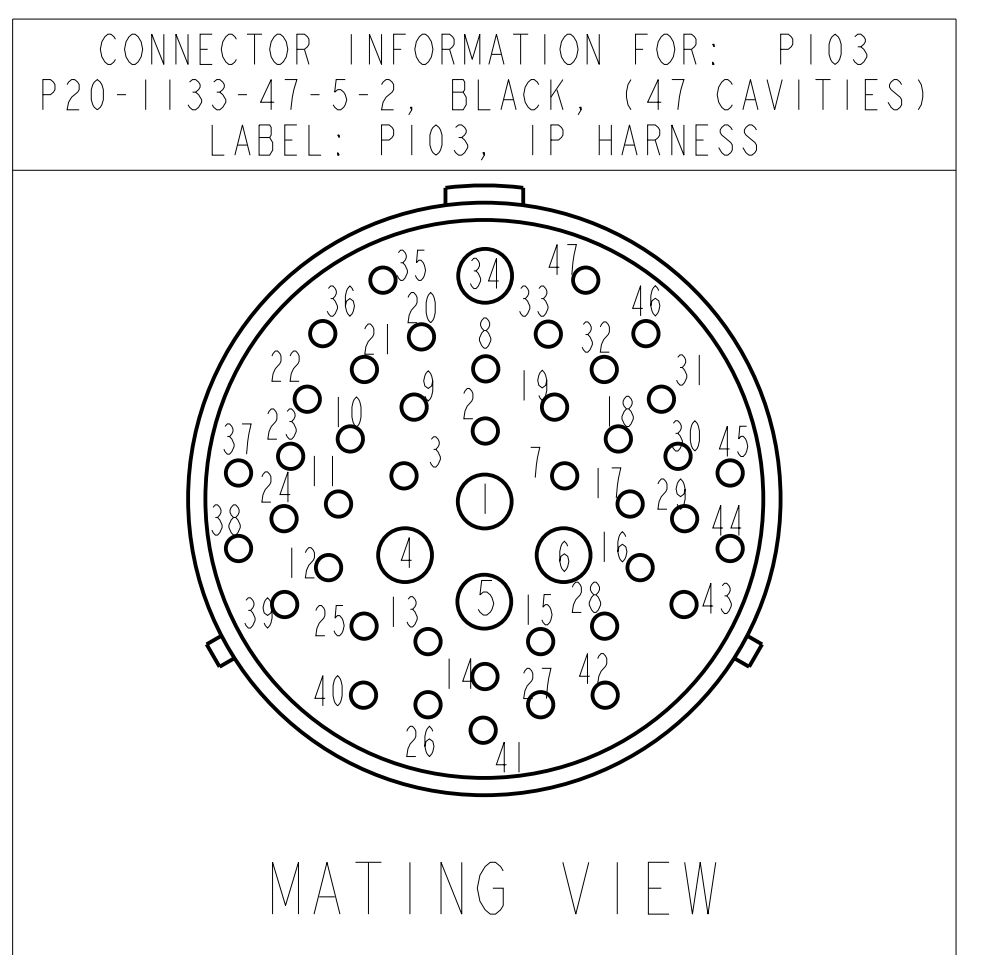
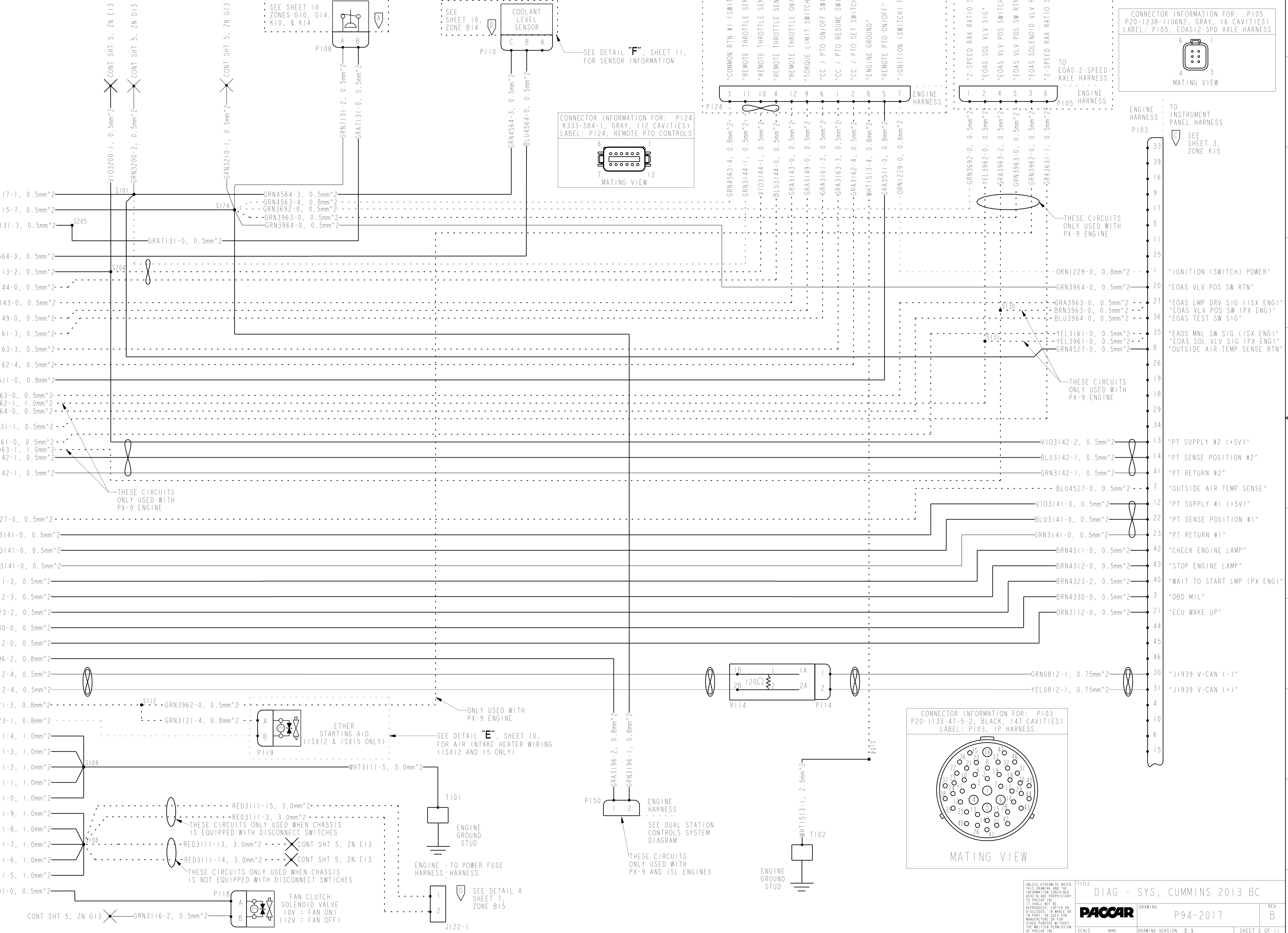


CONNECTION INFORMATION FOR: P105
P20-1238-1106N2, GRAY, (6 CAVITIES)
LABEL: P105, EOAS/2-SPD AXLE HARNESS

CONNECTION INFORMATION FOR: P103
P20-1133-47-5-2, BLACK, (47 CAVITIES)
LABEL: P103, IP HARNESS

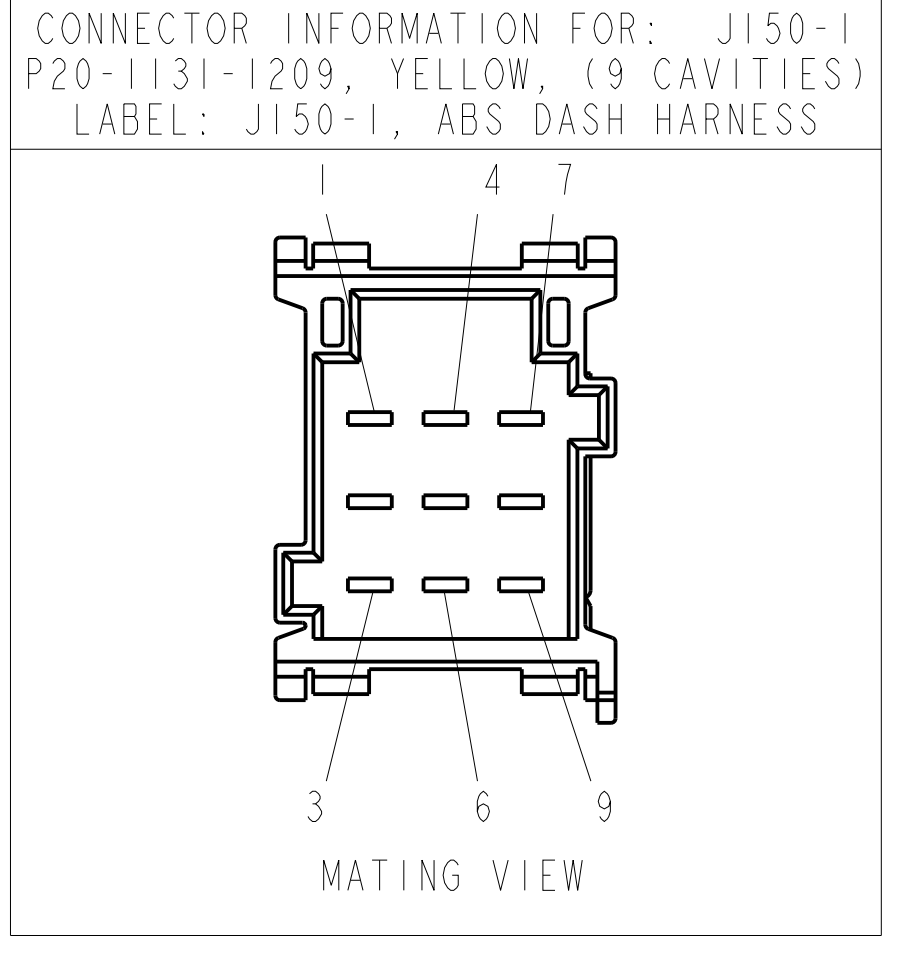
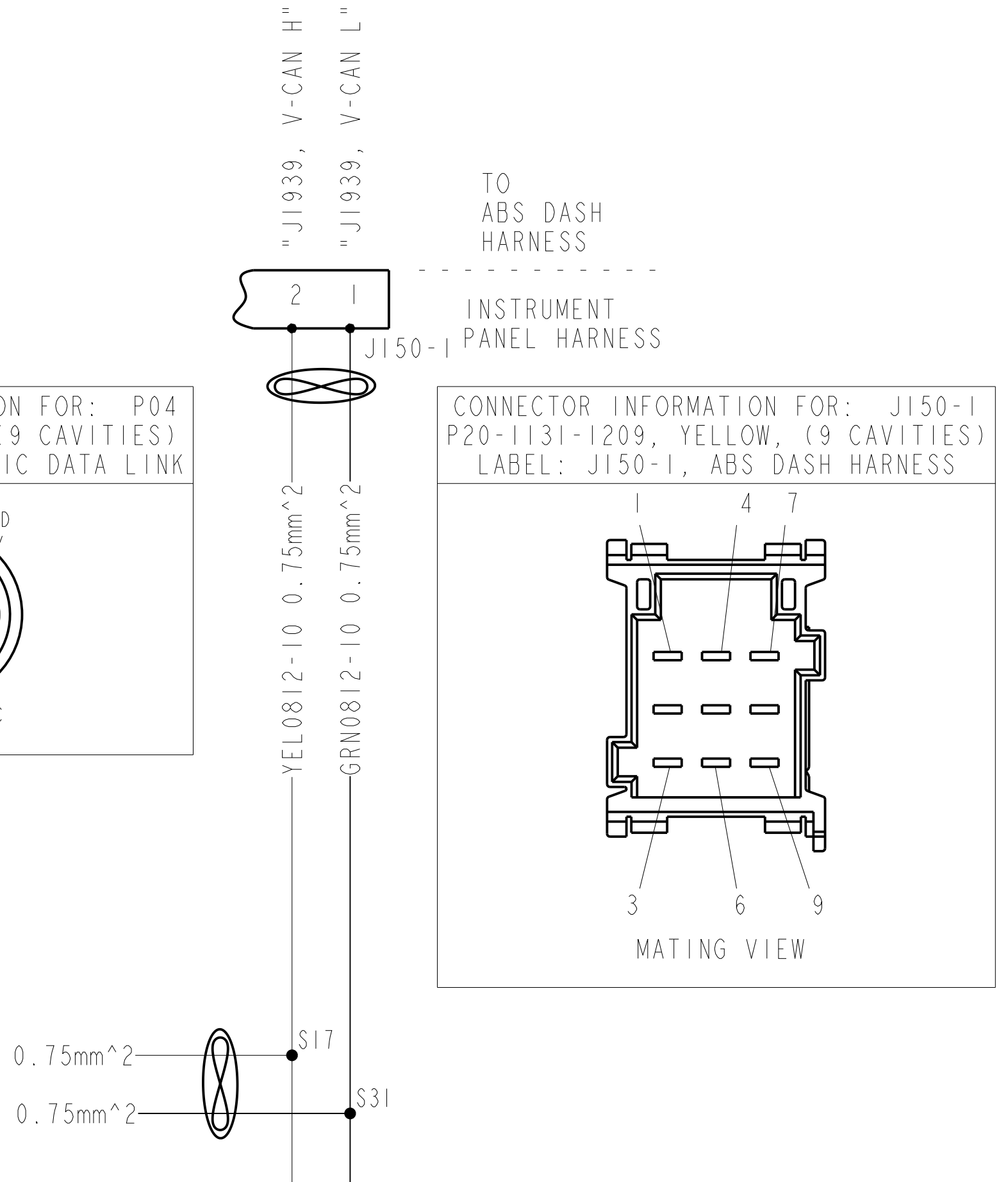
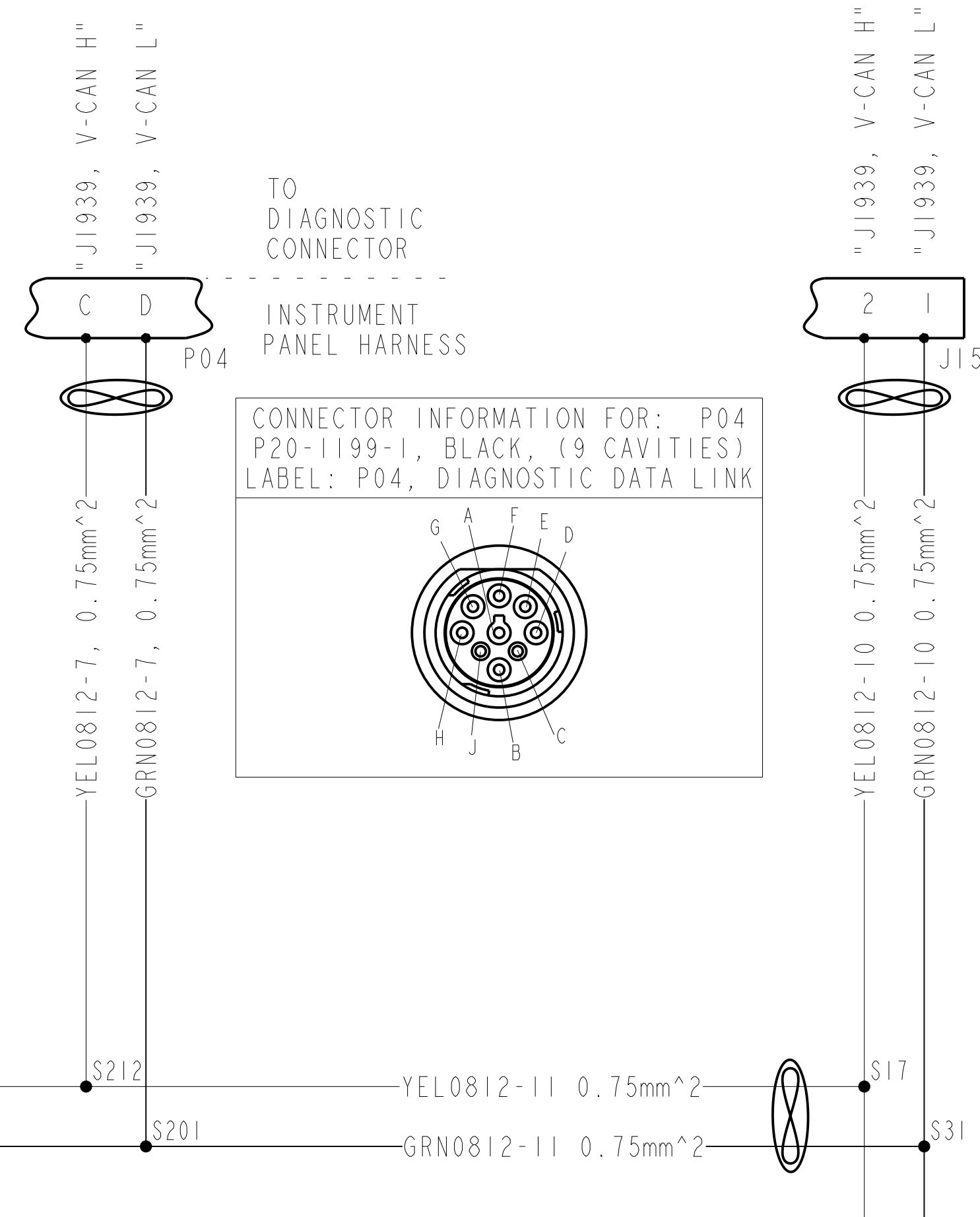
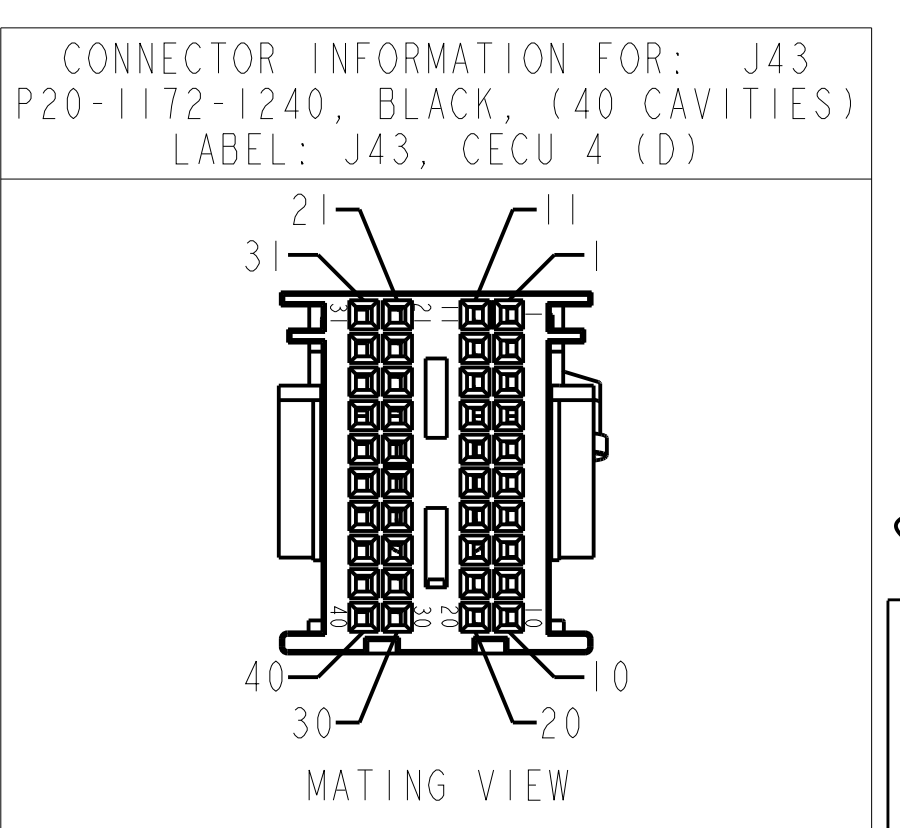
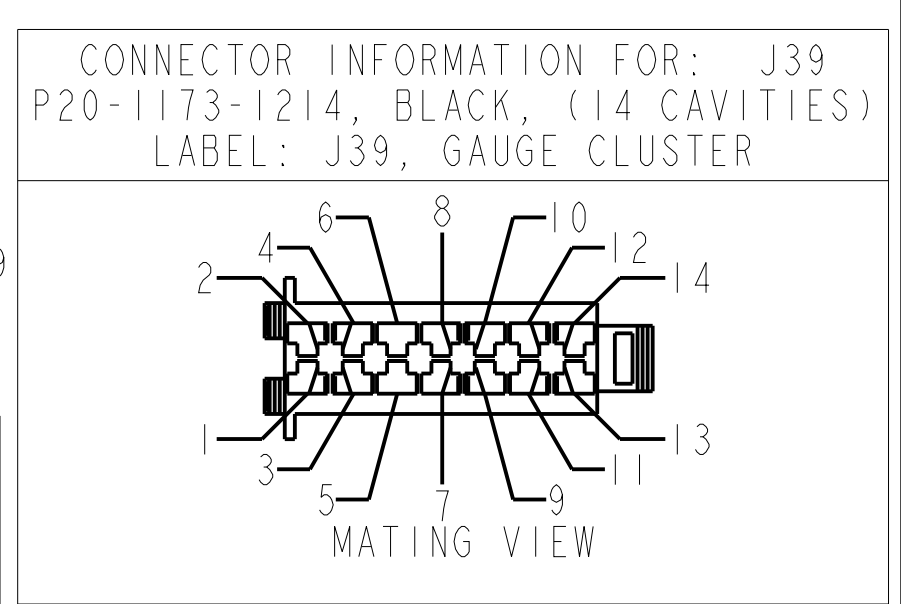
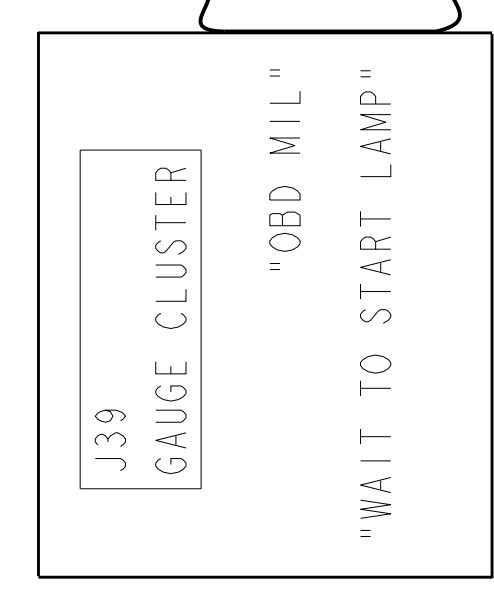
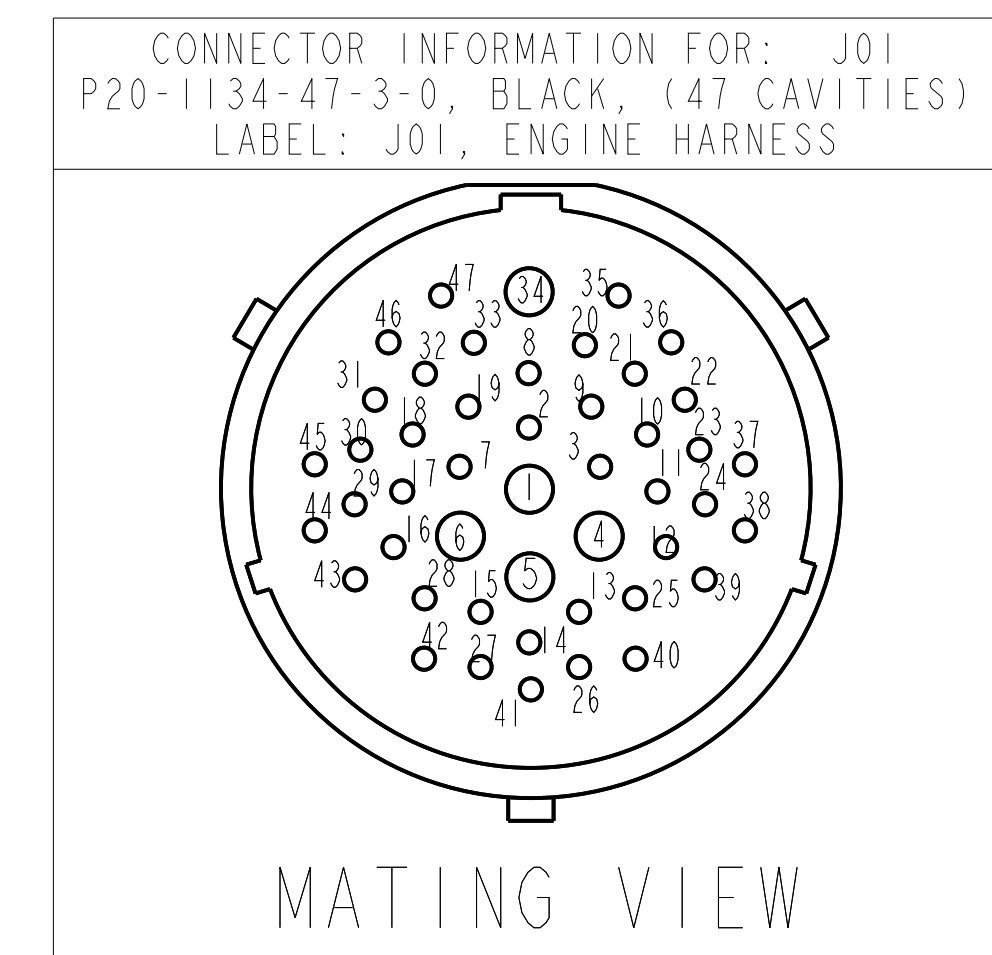
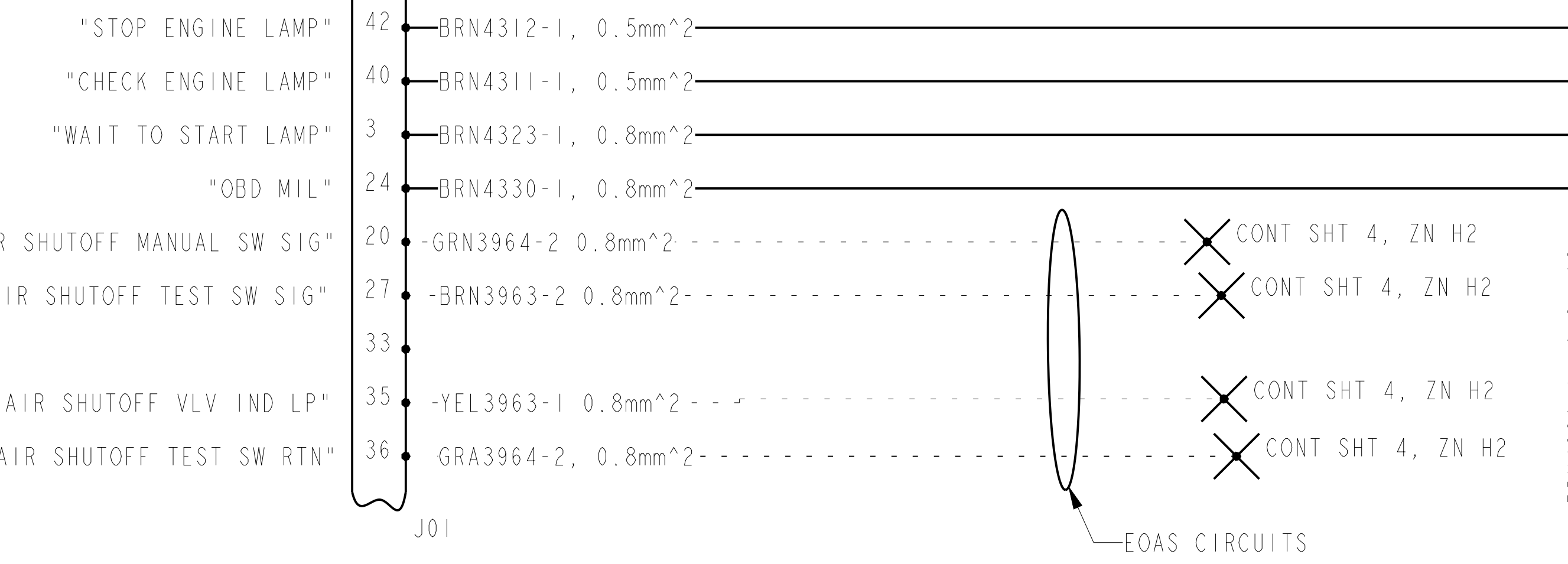
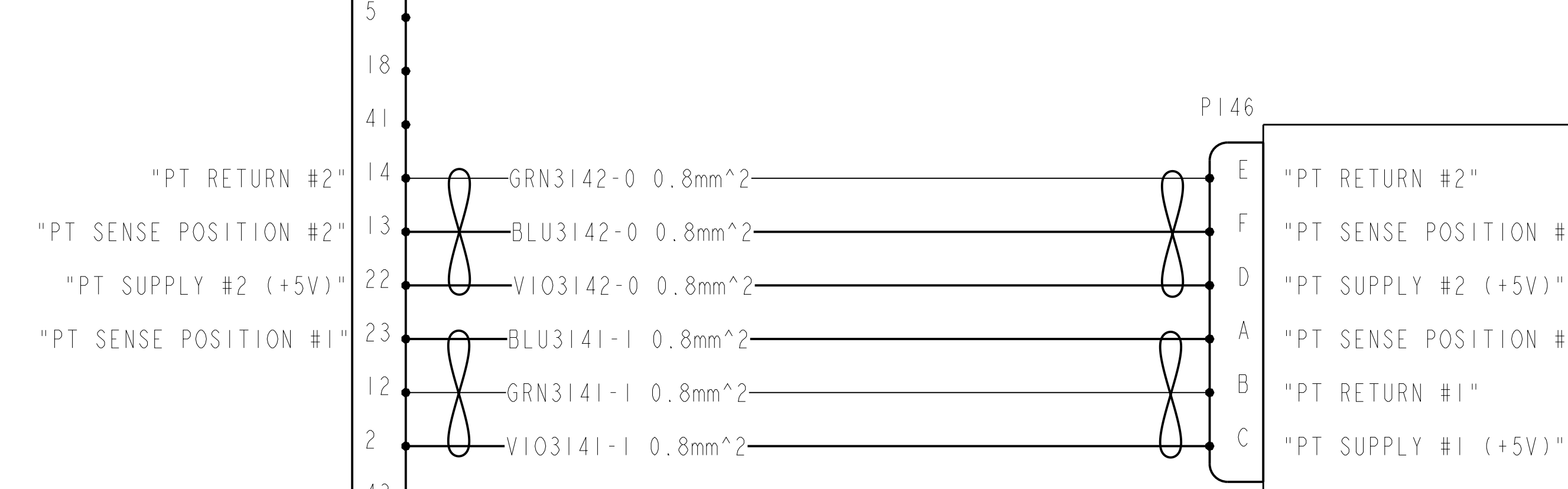
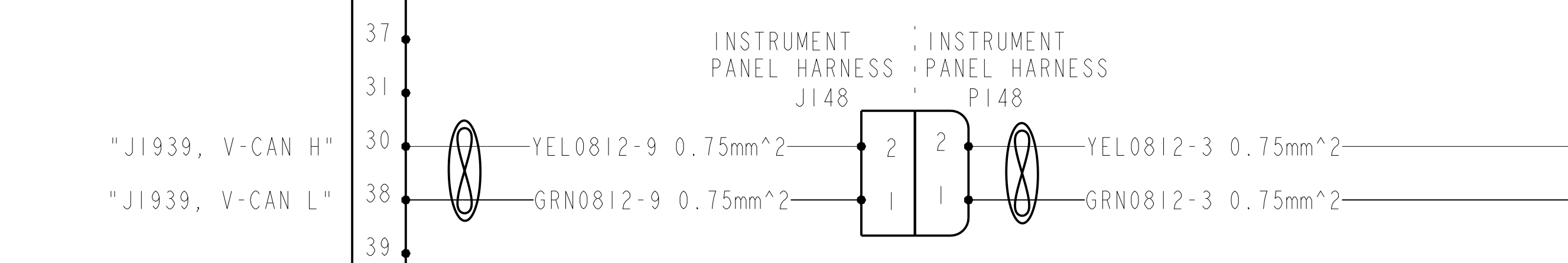
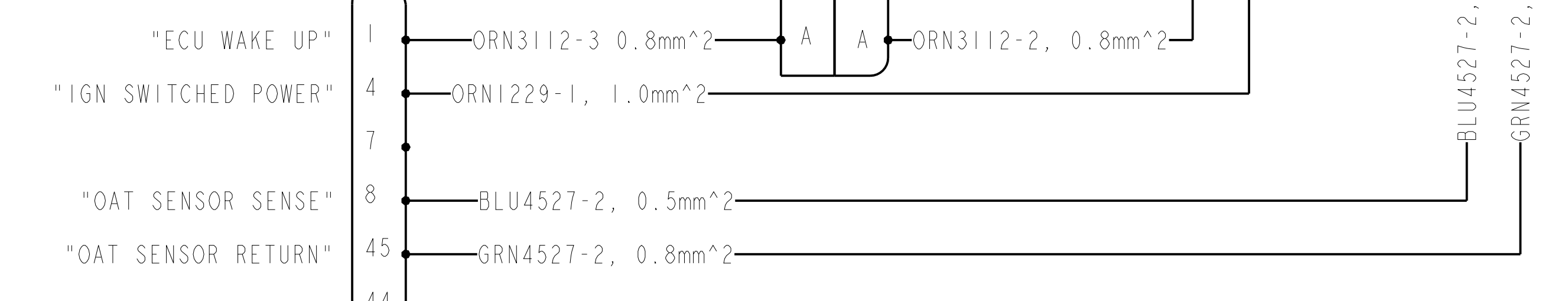
CONNECTOR P101 CONTINUED SHT 5

Pin	Description	Wiring
30	"COMMON RTN #3 (SENSOR)"	GRN3117-1, 0.5mm ²
62	"COMMON RTN #1 (SWITCH)"	GRN3115-7, 0.5mm ²
43	"AC HP SW/ECM FAN CTL"	GRA7131-3, 0.5mm ²
44	"COOLANT SENSOR SIG"	BLU4564-0, 0.5mm ²
8	"SENSOR SUPPLY (+5V)"	VIO3113-2, 0.5mm ²
63	"REMOTE THROTTLE SENSOR SIGNAL"	BLU3144-0, 0.5mm ²
67	"REMOTE THROTTLE ON/OFF"	GRA3143-0, 0.5mm ²
93	"TORQUE LIMIT SWITCH"	GRA3149-0, 0.5mm ²
90	"CC / PTO ON/OFF SWITCH"	GRA3161-3, 0.5mm ²
19	"CC / PTO RESUME SWITCH"	GRA3163-3, 0.5mm ²
12	"CC / PTO SET SWITCH"	GRA3162-4, 0.5mm ²
94	"REMOTE PTO ON/OFF"	GRA3511-0, 0.8mm ²
74	"EOAS LMP DRV SIG (ISX ENG)"	GRA3963-0, 0.5mm ²
89	"EOAS SOL VLV SIG (PX ENG)"	YEL3962-1, 1.0mm ²
89	"EOAS TEST SW SIG"	BLU3964-0, 0.5mm ²
70	"2-SPEED RAX RATIO SW"	GRA3631-1, 0.5mm ²
69	"EOAS MNL SW SIG (ISX ENG)"	YEL3161-0, 0.5mm ²
69	"EOAS VLV POS SWITCH (PX ENG)"	GRA3963-1, 1.0mm ²
31	"PT SENSE POSITION #2"	BLU3142-1, 0.5mm ²
61	"PT RETURN #2"	GRN3142-1, 0.5mm ²
56	"OUTSIDE AIR TEMP SENSE"	BLU4527-0, 0.5mm ²
29	"PT SUPPLY #1 (+5V)"	VIO3141-0, 0.5mm ²
9	"PT SENSE POSITION #1"	BLU3141-0, 0.5mm ²
55	"PT RETURN #1"	GRN3141-0, 0.5mm ²
33	"CHECK ENGINE LAMP"	BRN4311-3, 0.5mm ²
72	"STOP ENGINE LAMP"	BRN4312-3, 0.5mm ²
71	"WAIT TO START LMP (PX ENG)"	BRN4323-2, 0.5mm ²
96	"OBD MIL"	BRN4330-0, 0.5mm ²
48	"ECU WAKE UP"	ORN3112-0, 0.5mm ²
5	"ENGINE GOVERNOR SIGNAL"	GRA3196-2, 0.8mm ²
46	"J1939 V-CAN (-)"	GRN0812-4, 0.5mm ²
22	"J1939 V-CAN (+)"	YEL0812-4, 0.5mm ²
76	"GENERAL RETURN"	GRN3121-3, 0.8mm ²
75	"ETHER SOLENOID VALVE"	YEL3123-1, 0.8mm ²
49	"ECU RETURN, BATTERY (-)"	WHT3111-4, 1.0mm ²
50	"ECU RETURN, BATTERY (-)"	WHT3111-3, 1.0mm ²
51	"ECU RETURN, BATTERY (-)"	WHT3111-2, 1.0mm ²
52	"ECU RETURN, BATTERY (-)"	WHT3111-1, 1.0mm ²
73	"ECU RETURN, BATTERY (-)"	WHT3111-0, 1.0mm ²
28	"ECU POWER, BATTERY (+)"	RED3111-9, 1.0mm ²
25	"ECU POWER, BATTERY (+)"	RED3111-8, 1.0mm ²
26	"ECU POWER, BATTERY (+)"	RED3111-7, 1.0mm ²
27	"ECU POWER, BATTERY (+)"	RED3111-6, 1.0mm ²
1	"ECU POWER, BATTERY (+)"	RED3111-5, 1.0mm ²
78	"FAN CLUTCH SOLENOID VALVE"	YEL3191-0, 0.5mm ²



USAGE NOTE:
USE ON C500/T470/T660/T800/W900 CHASSIS WITH 12-12V ELECTRICAL SYSTEM WITH NAMUX 111 INSTRUMENTATION AND 2013 EMISSIONS COMPLIANT CUMMINS PX-9, ISX12, OR ISX15 ENGINE EQUIPPED WITH THE CM2350 CONTROLLER.

SEE SHEET 2, ZONE J2
TO ENGINE HARNESS



16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

L K J I H G F E D C B A

CONT SHT 8, ZN G14
CONT SHT 8, ZN H15
CONT SHT 8, ZN H15

INSTRUMENT PANEL HARNESS
EOAS HARNESS

TERMINAL INFORMATION FOR: J0300
P20-1065, BLACK, (4 CAVITIES)
LABEL: J0300, EOAS, SPARE BACKLIGHTING

TERMINAL INFORMATION FOR: J0201
P20-1065, BLACK, (4 CAVITIES)
LABEL: J0201, IP HARNESS SPARE BACKLIGHTING

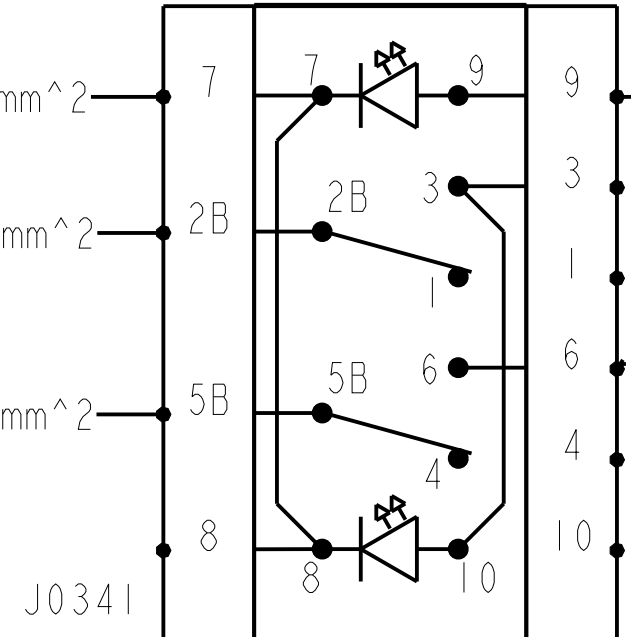
TERMINAL INFORMATION FOR: P0200
P20-1064, NATURAL, (4 CAVITIES)
LABEL: P0200, EOAS HARNESS SPARE BACKLIGHTING

TERMINAL INFORMATION FOR: J0401
K333-586-204, BLACK, (4 CAVITIES)
LABEL: J0401, EOAS, IP HARNESS

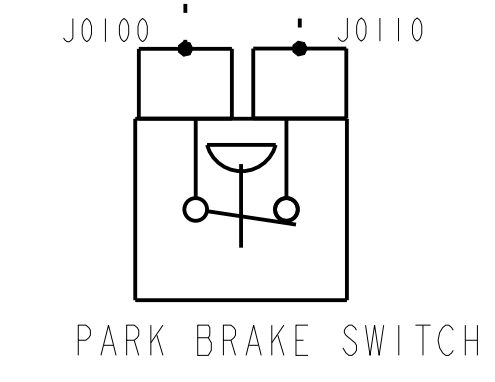
TERMINAL INFORMATION FOR: J0400
K333-586-104, BLACK, (4 CAVITIES)
LABEL: J0400, EOAS, DASH HARNESS

CONT SHT 3, ZN E13
CONT SHT 3, ZN E13
CONT SHT 3, ZN E13
CONT SHT 3, ZN E13

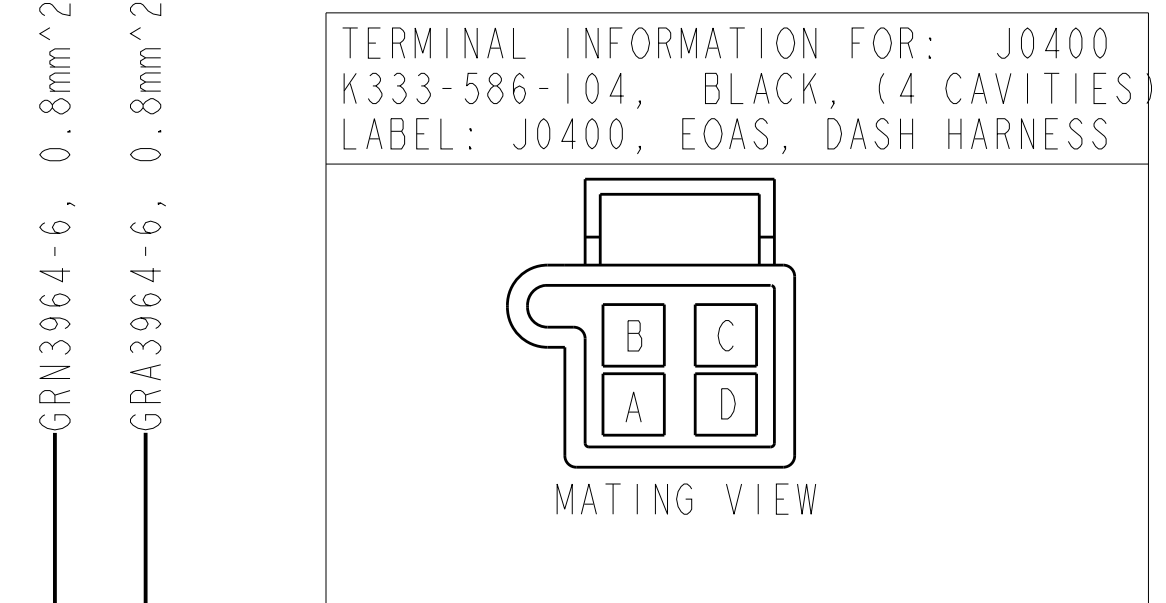
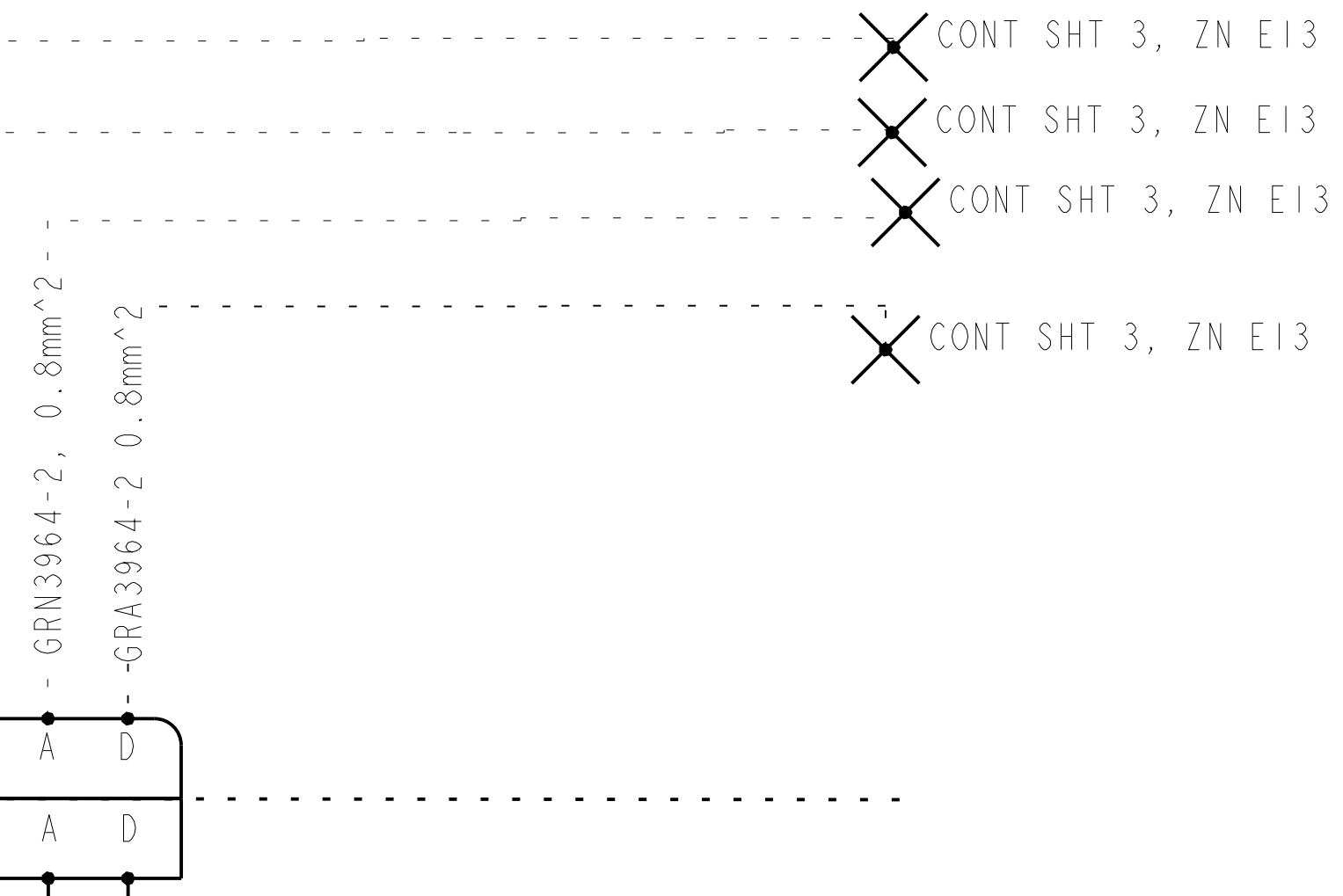
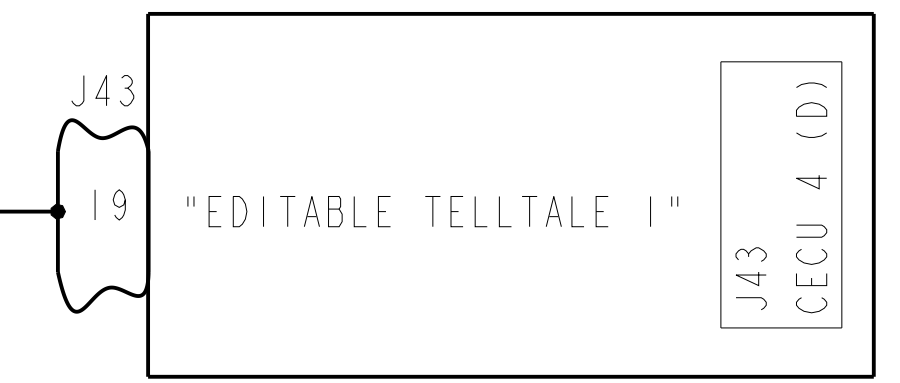
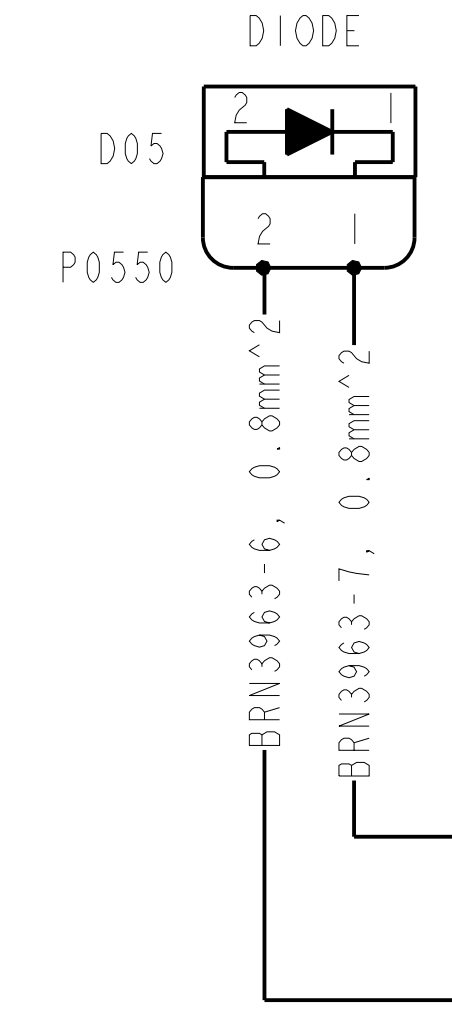
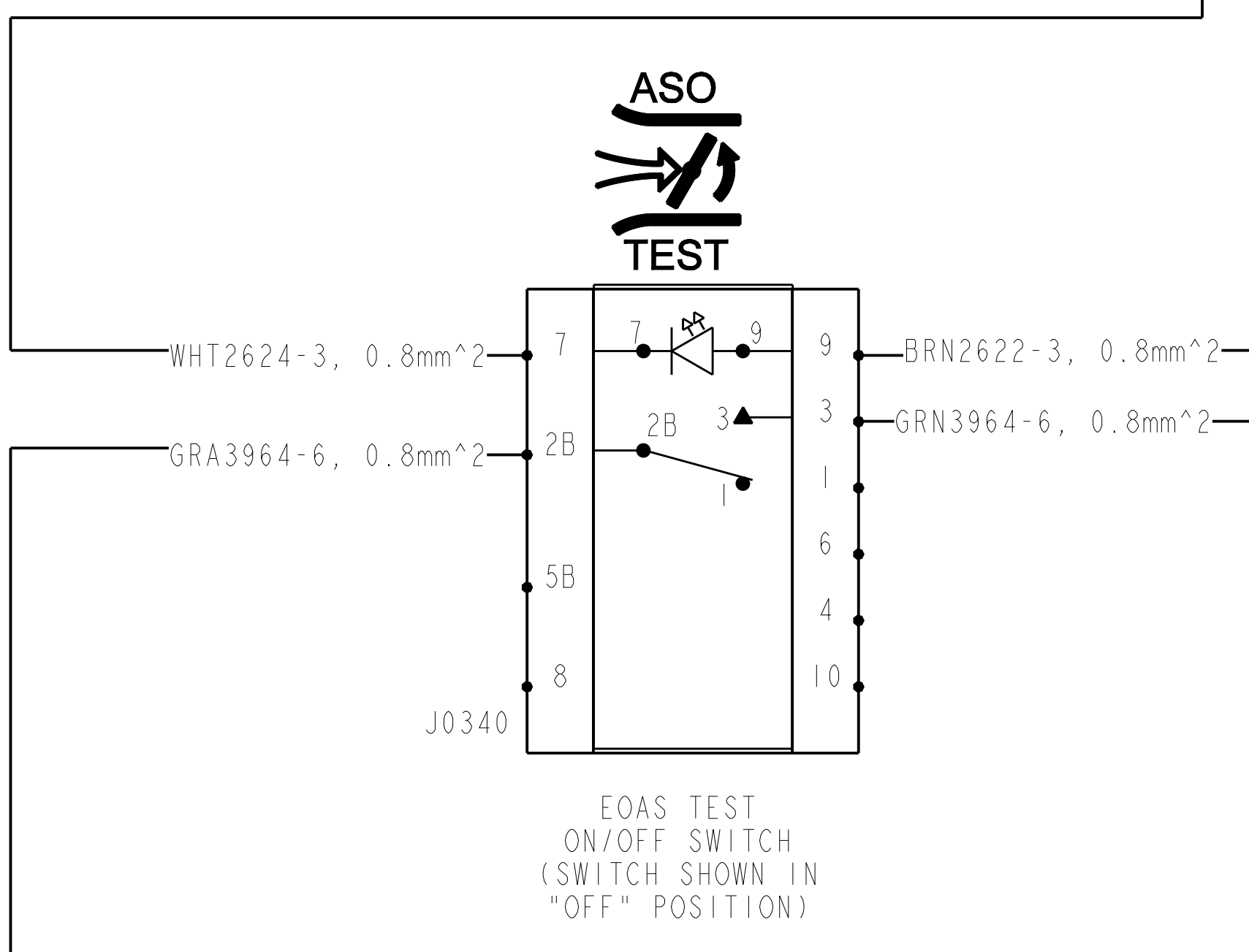
"AUXILIARY BACK LIGHTING, CONTROL"
"AUXILIARY BACK LIGHTING, GROUND"
"AUXILIARY BACK LIGHTING, POWER"



TERMINAL INFORMATION FOR: J0341
P20-1191-3, BLACK, (10 CAVITIES)
LABEL: J0341, EOAS MANUAL SWITCH



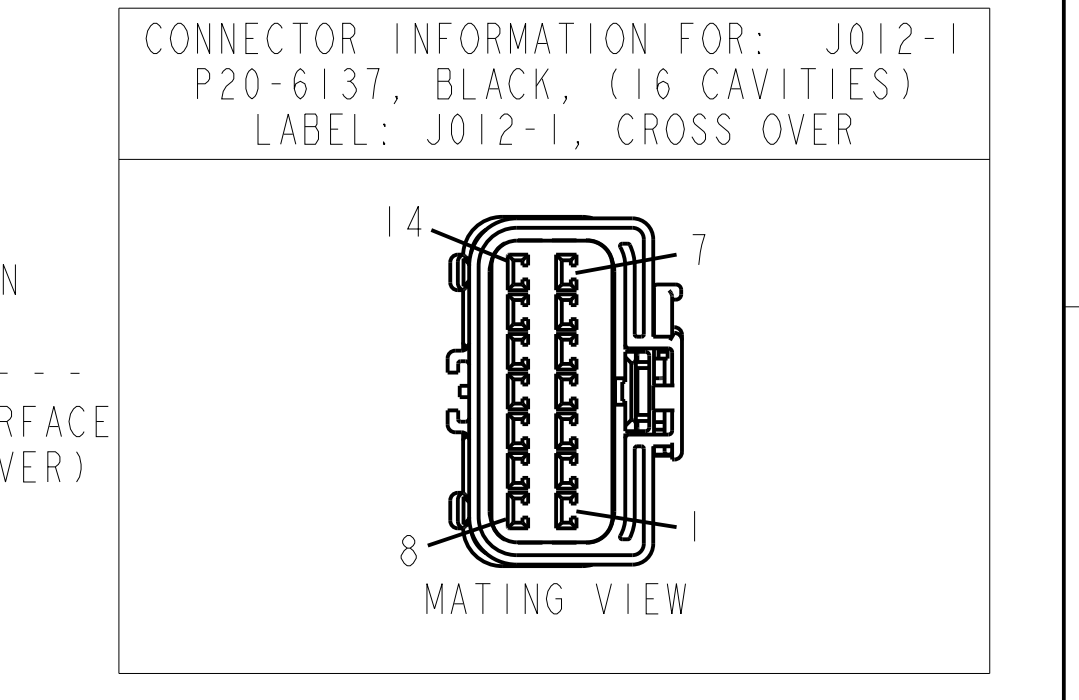
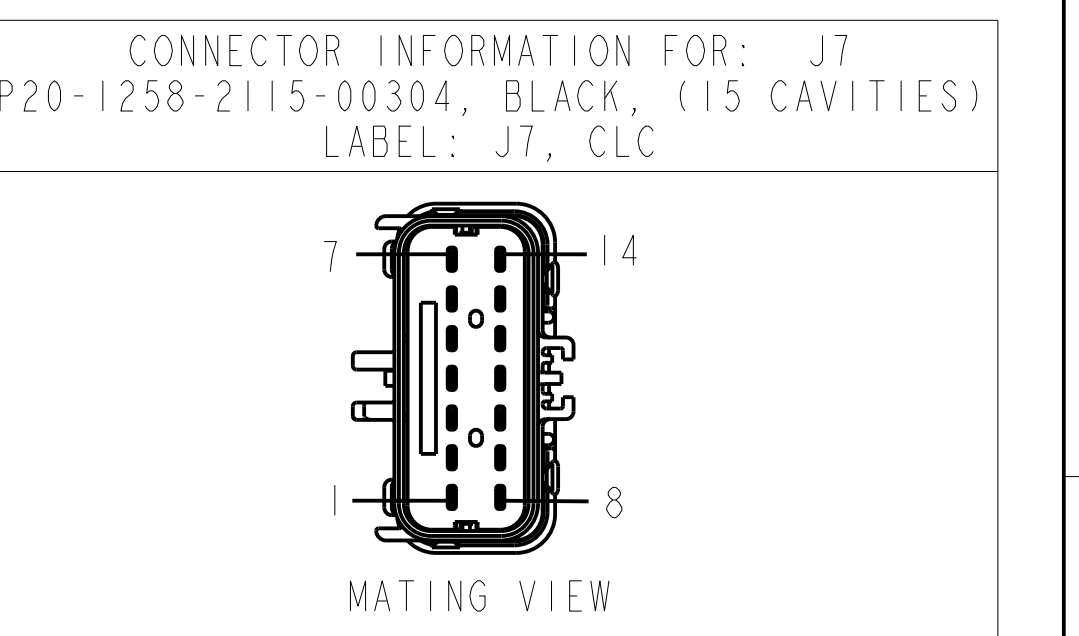
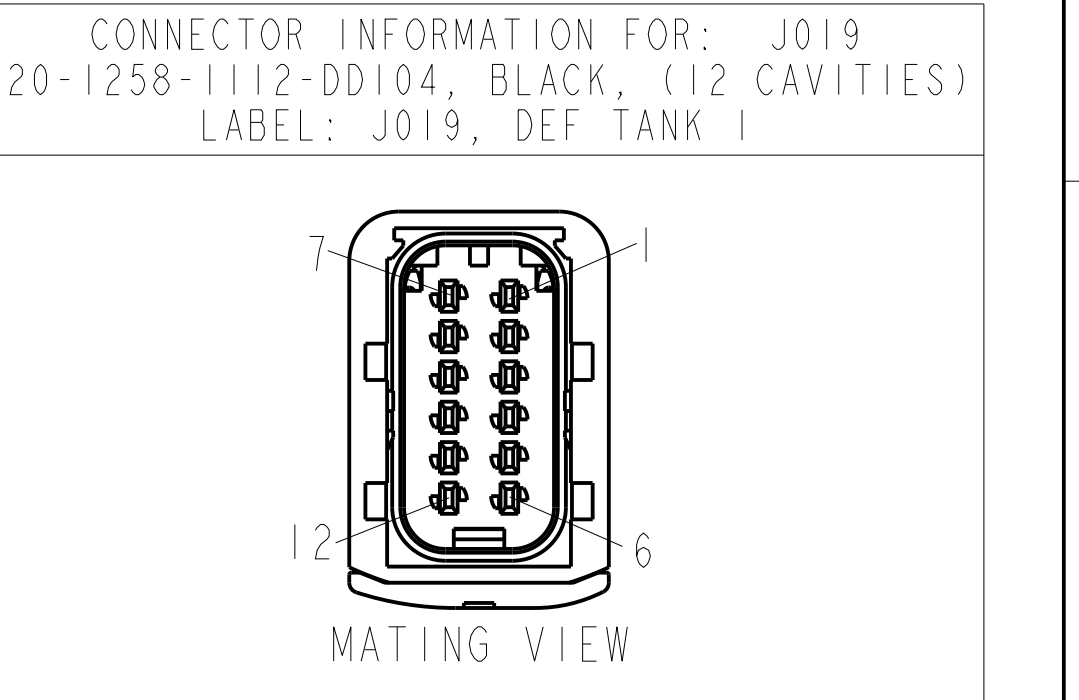
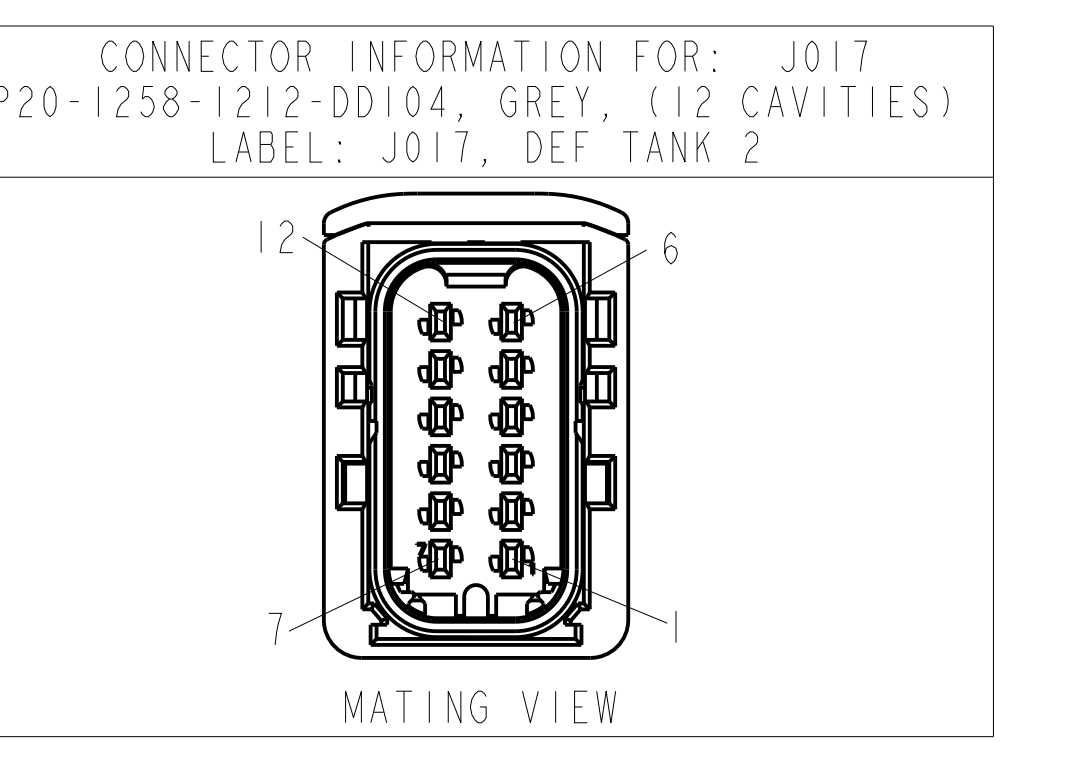
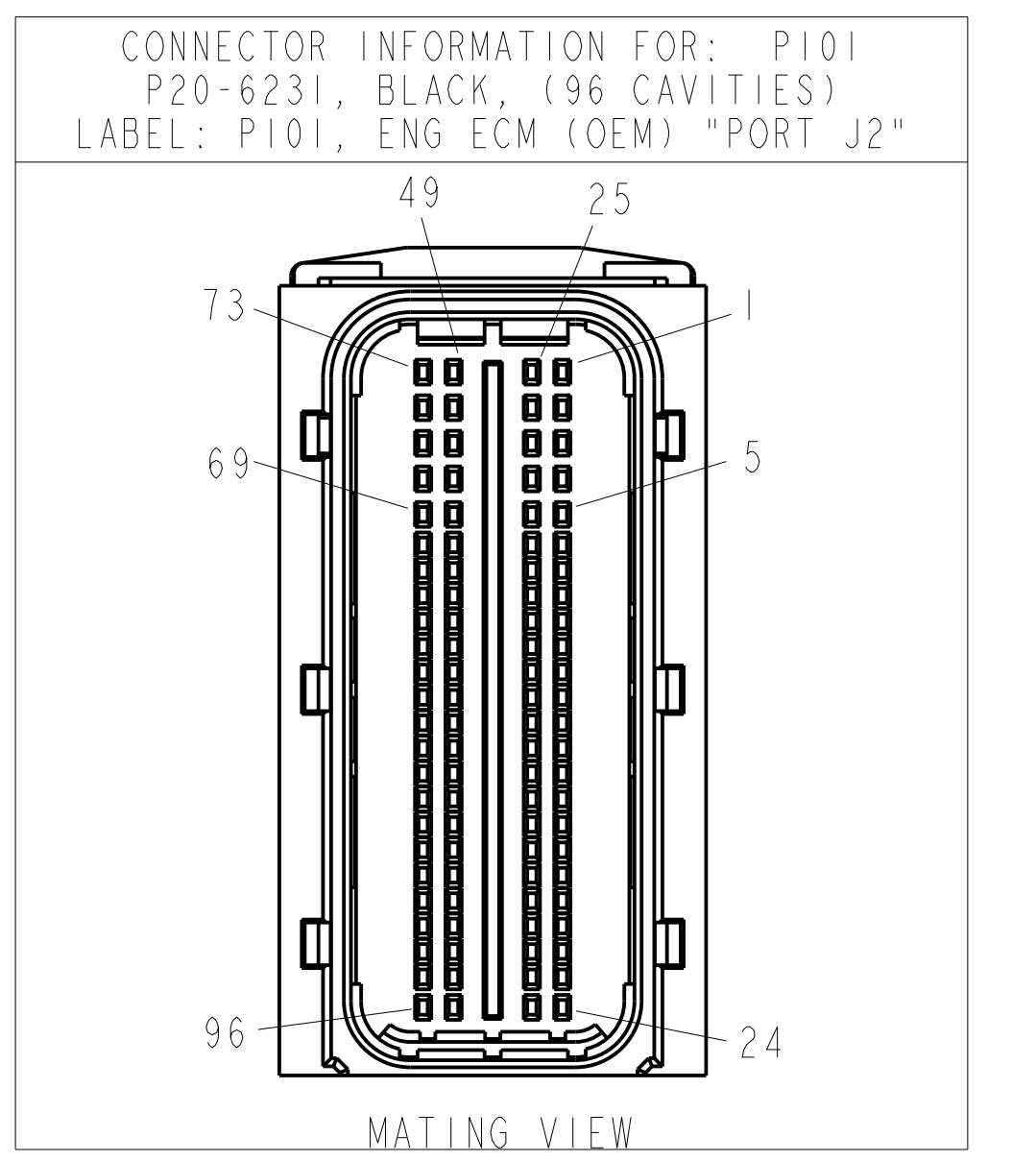
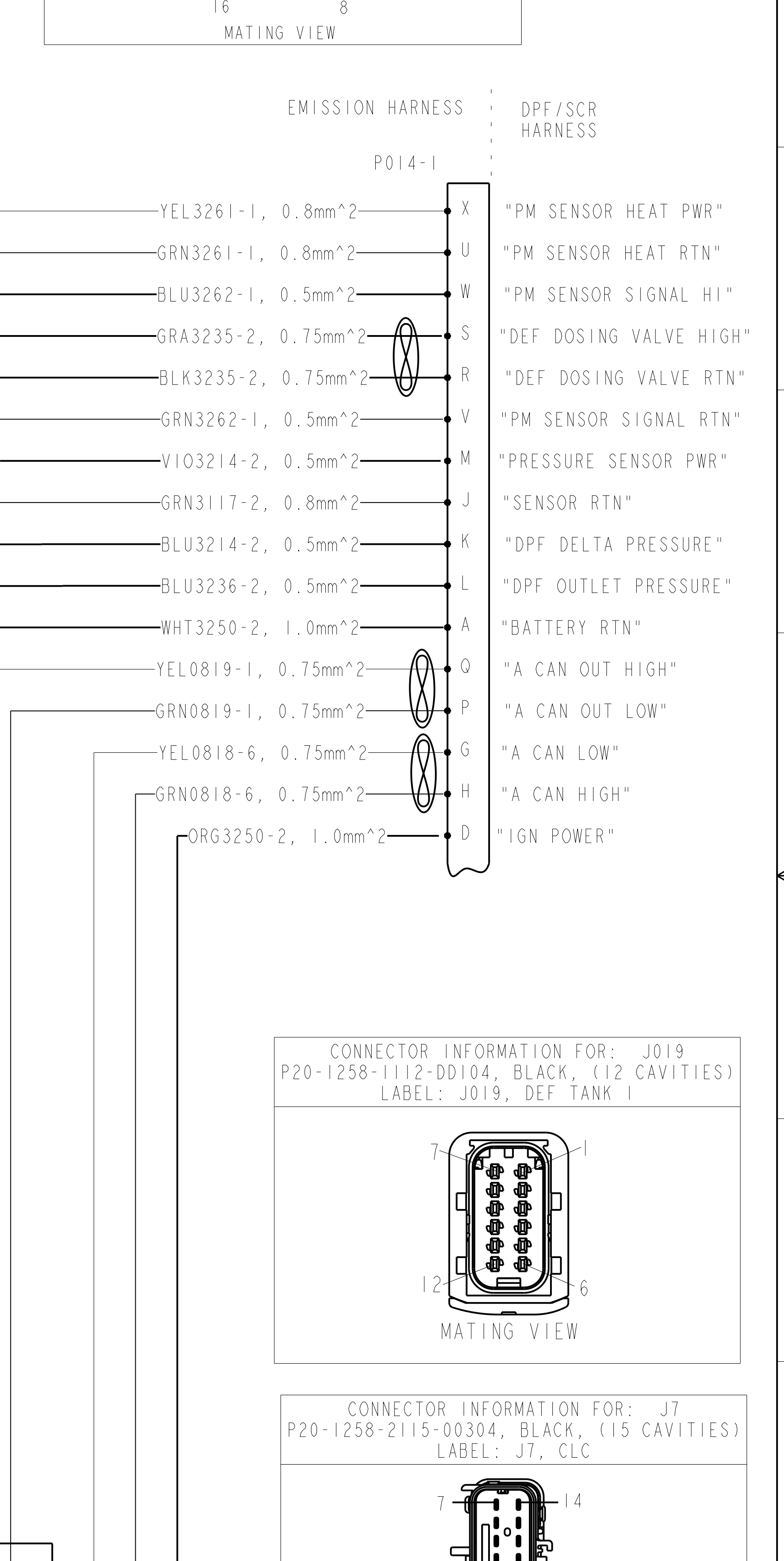
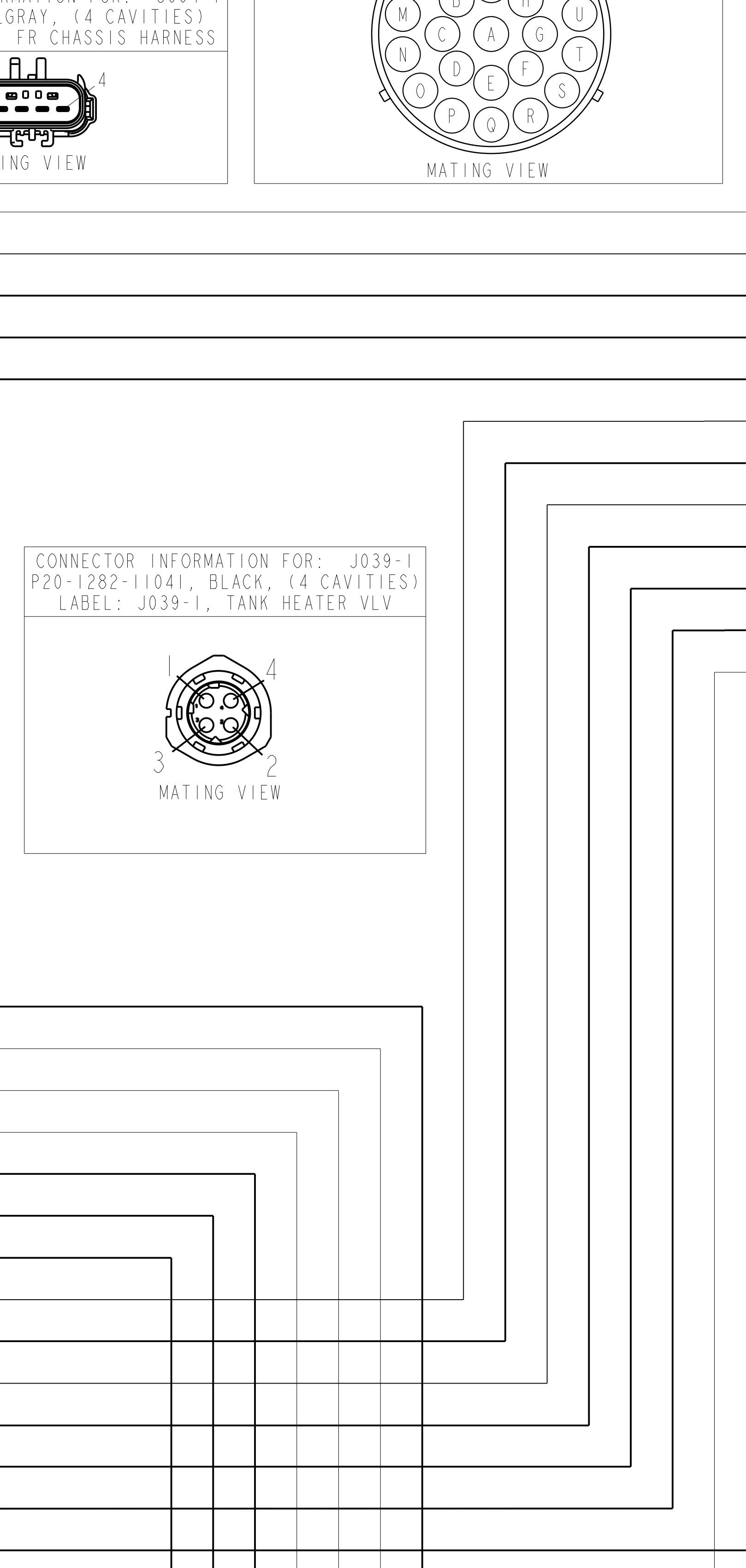
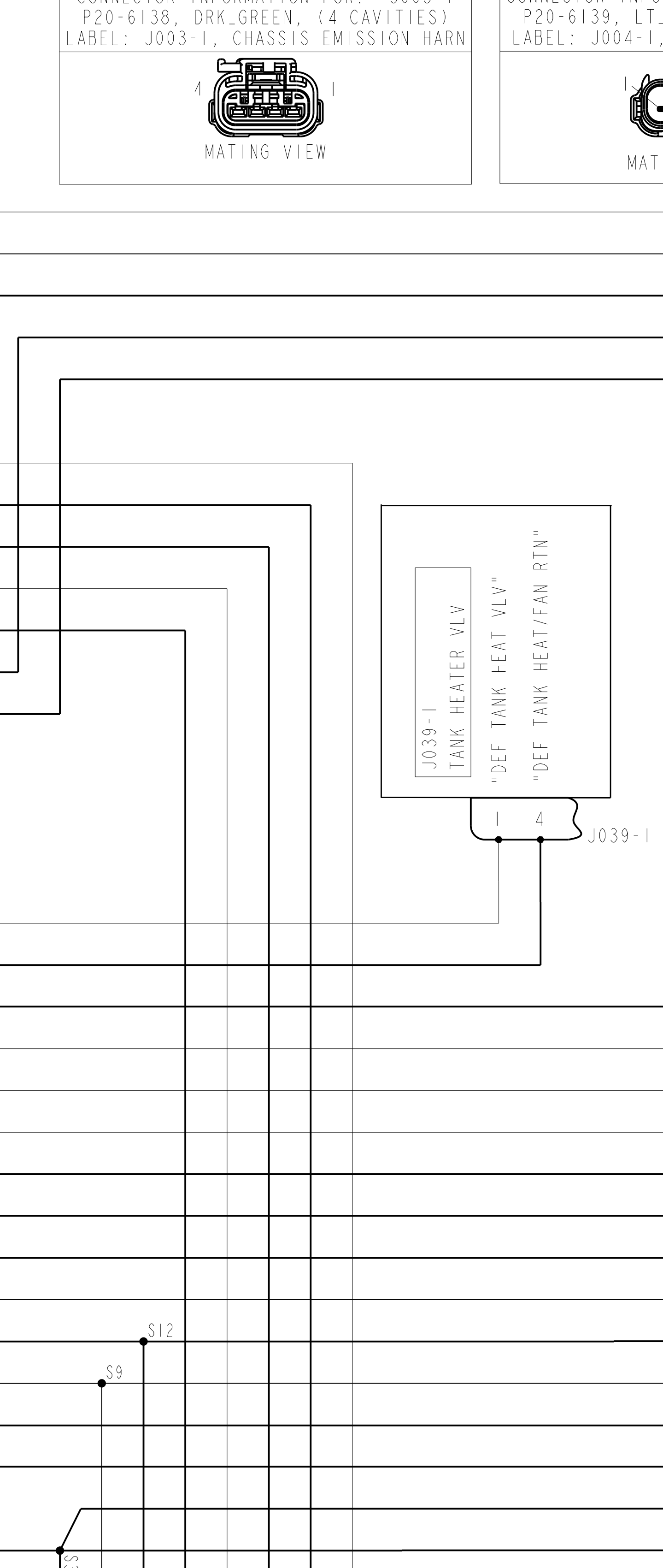
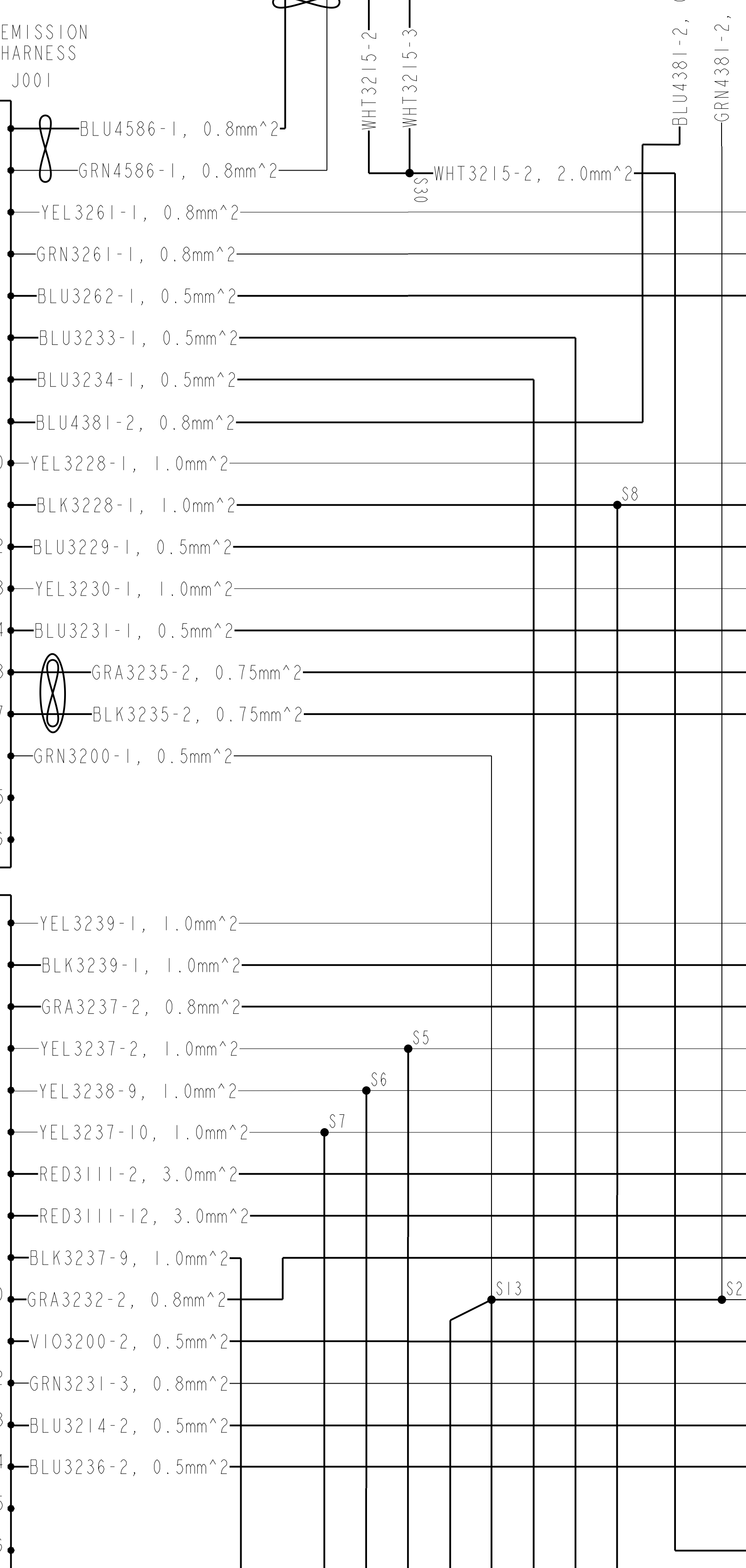
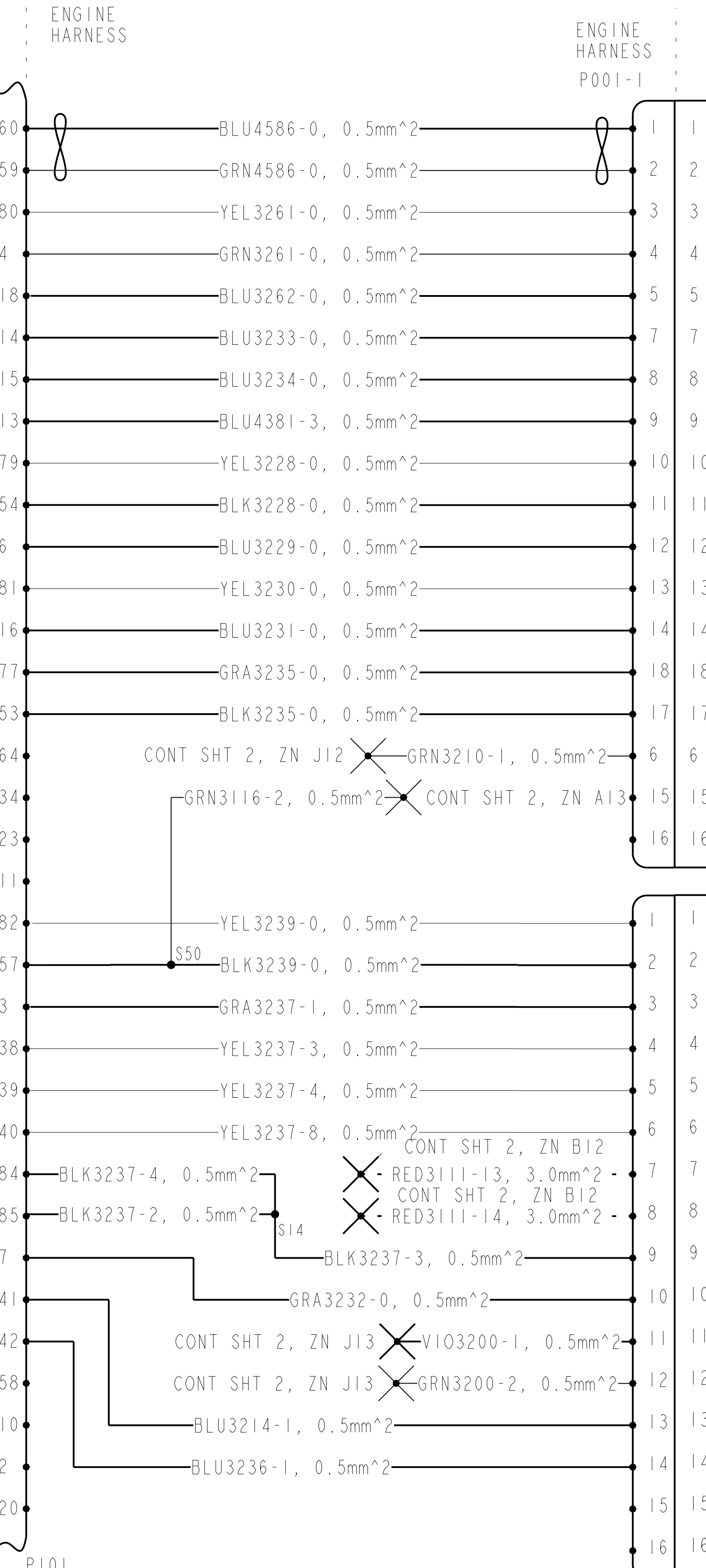
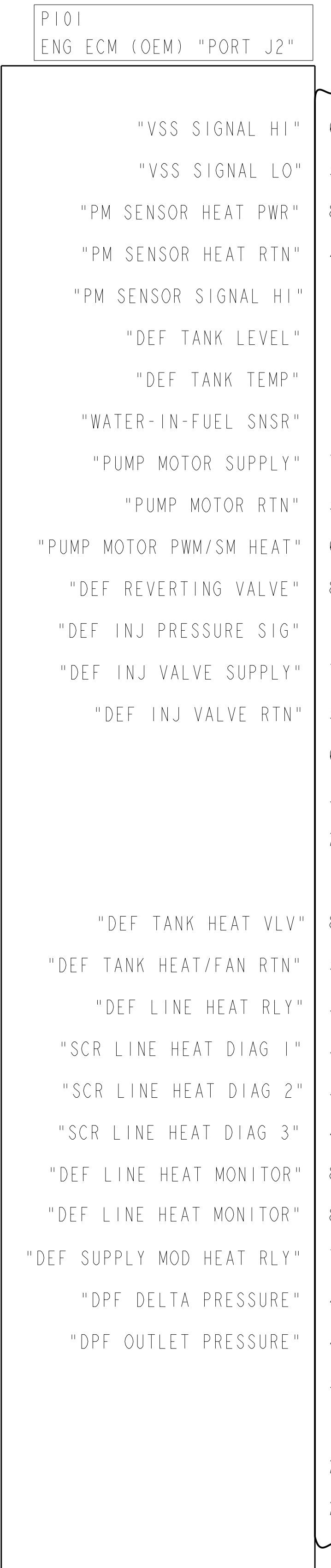
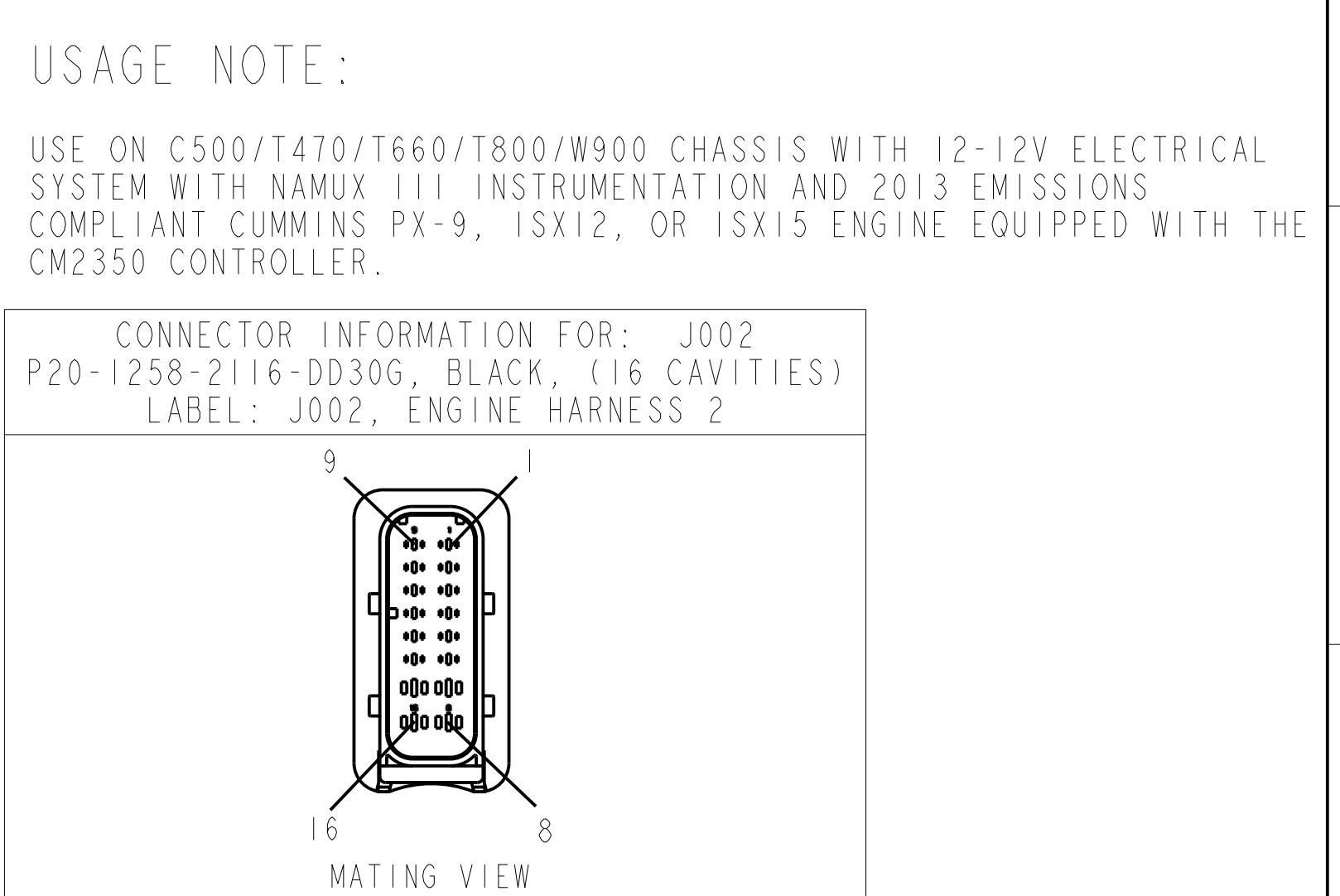
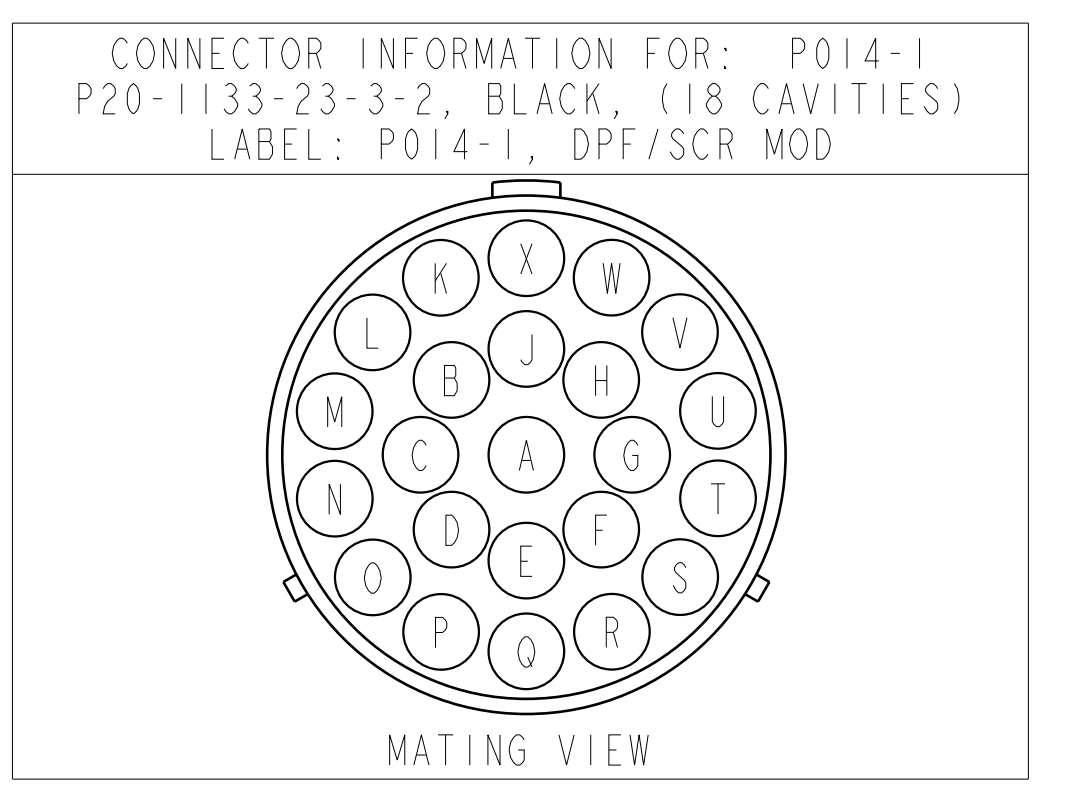
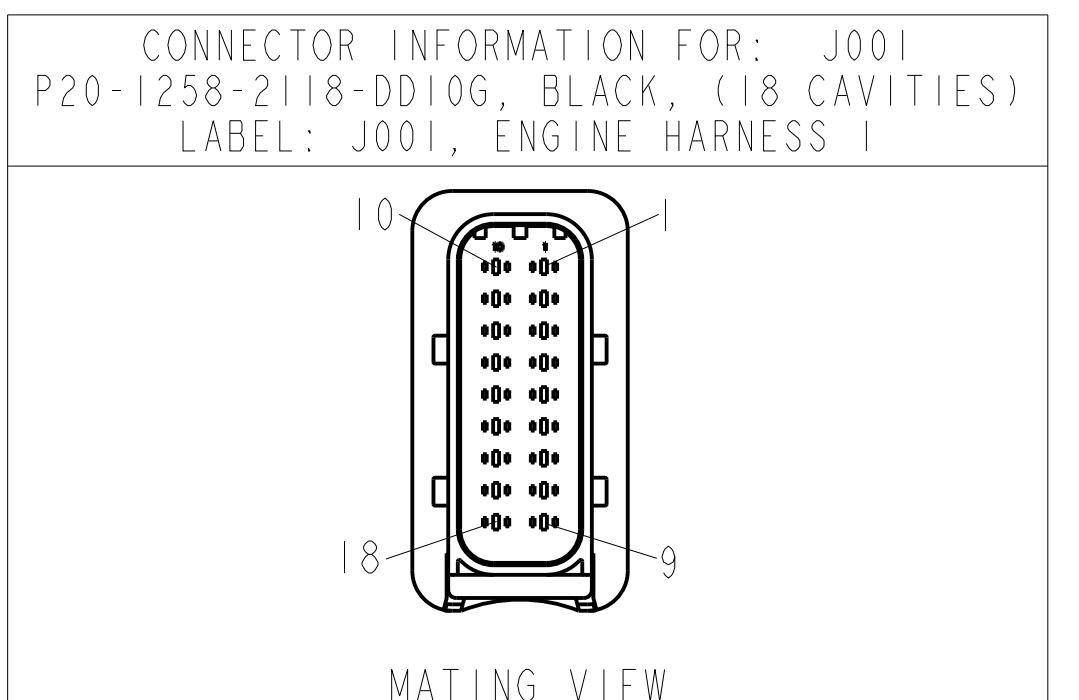
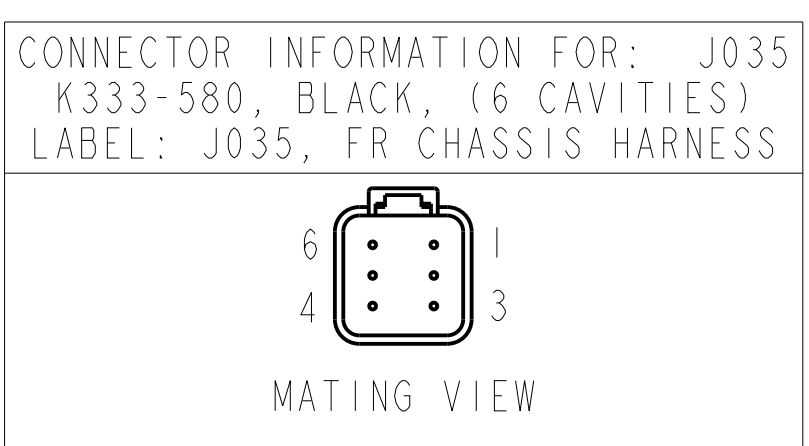
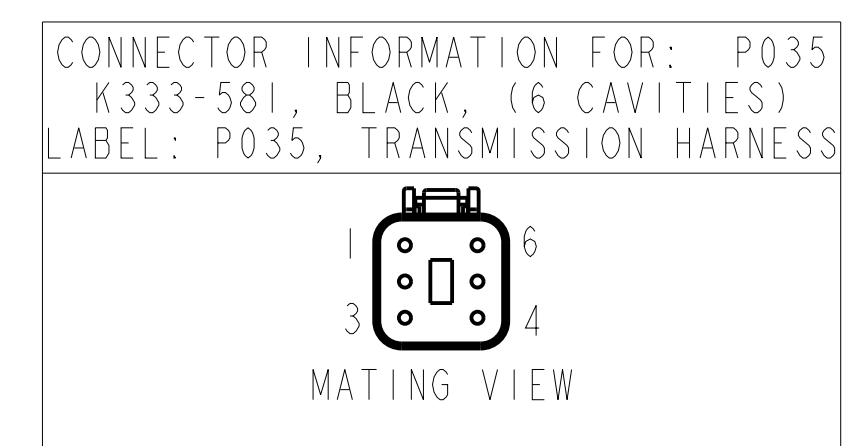
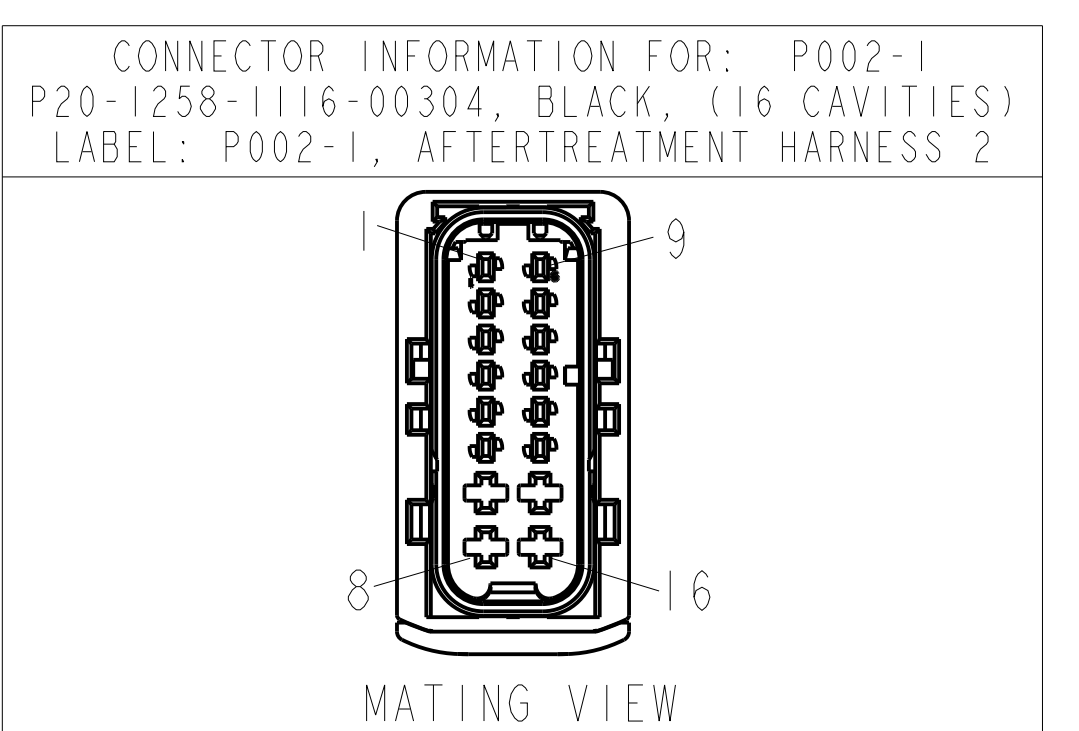
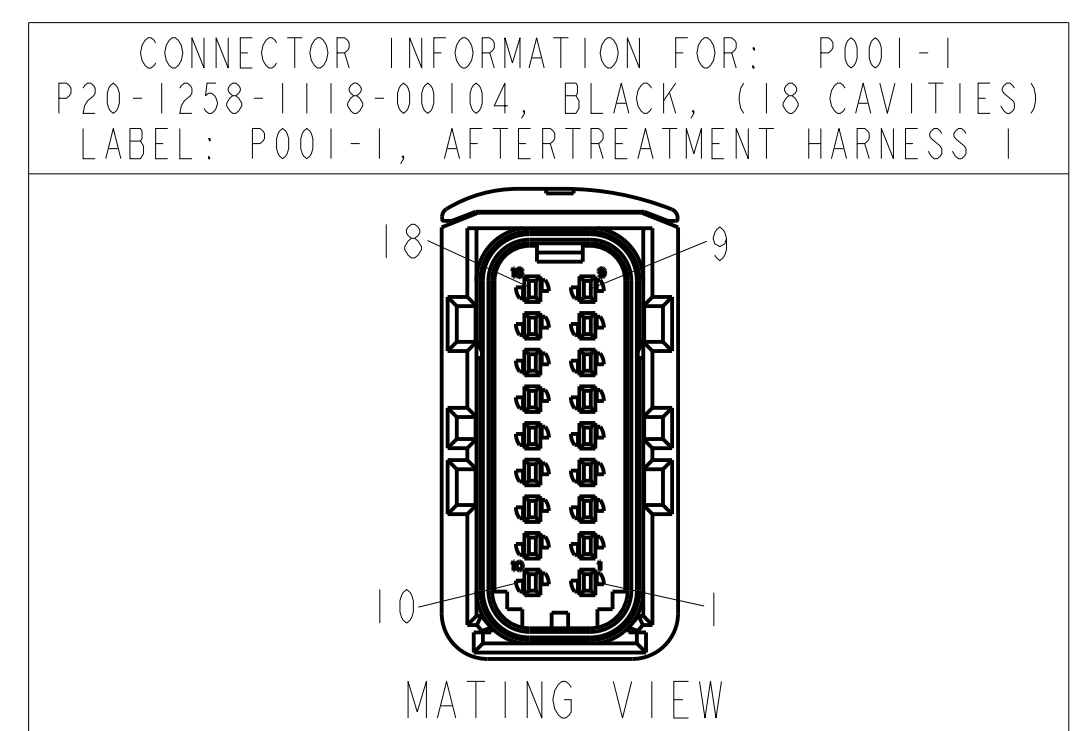
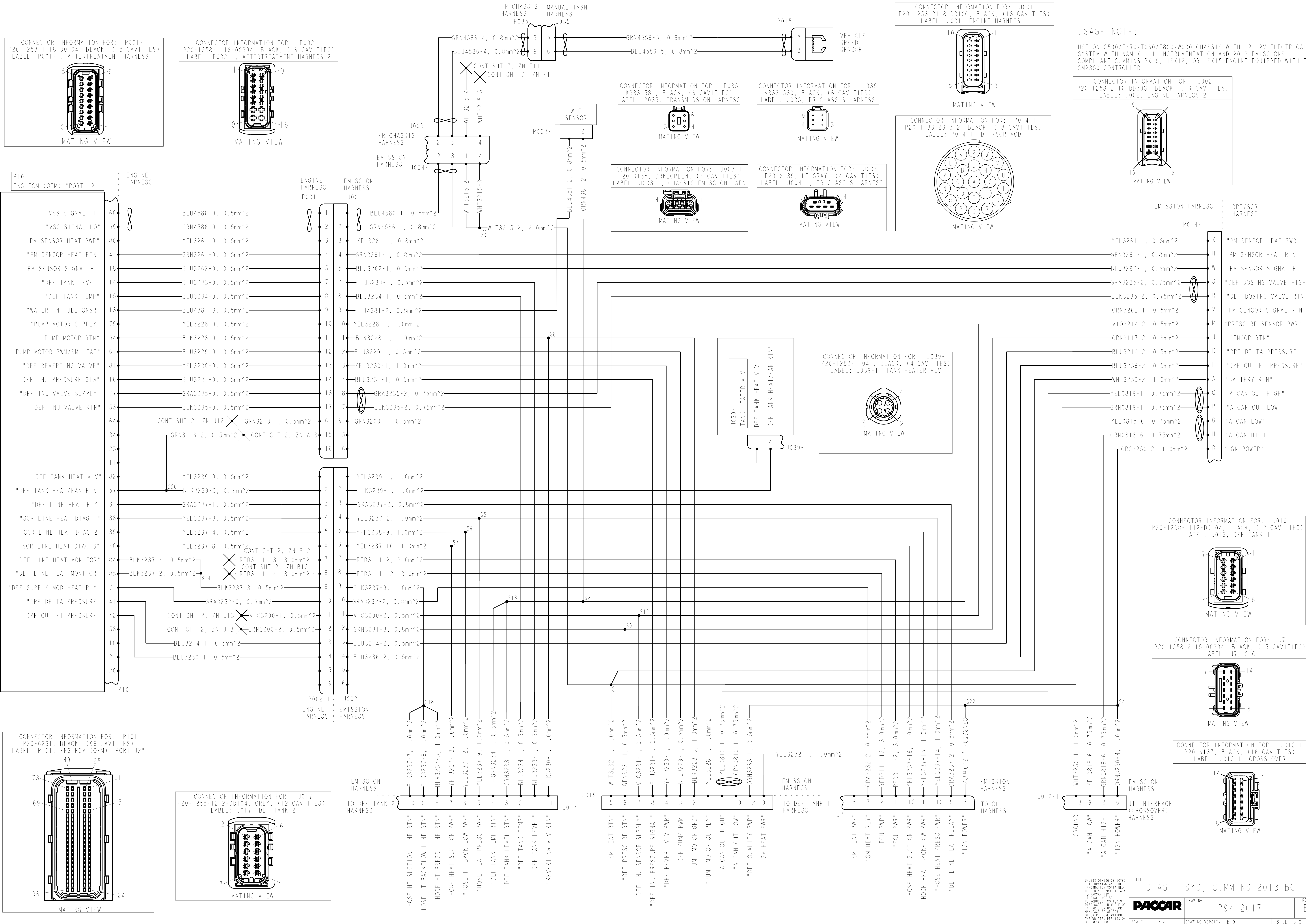
TERMINAL INFORMATION FOR: J0340
P20-1191-3, BLACK, (10 CAVITIES)
LABEL: J0340, EOAS TEST SW

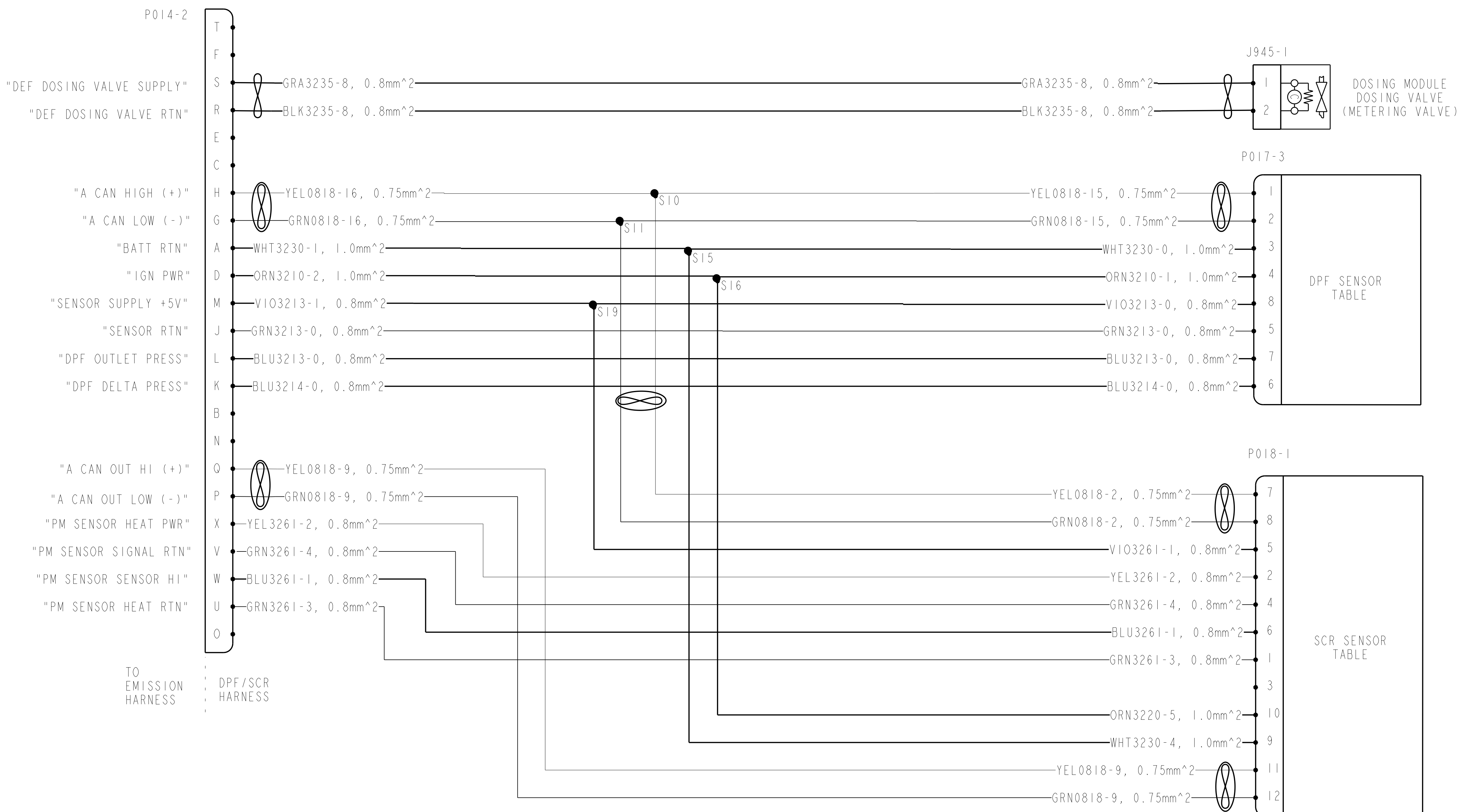
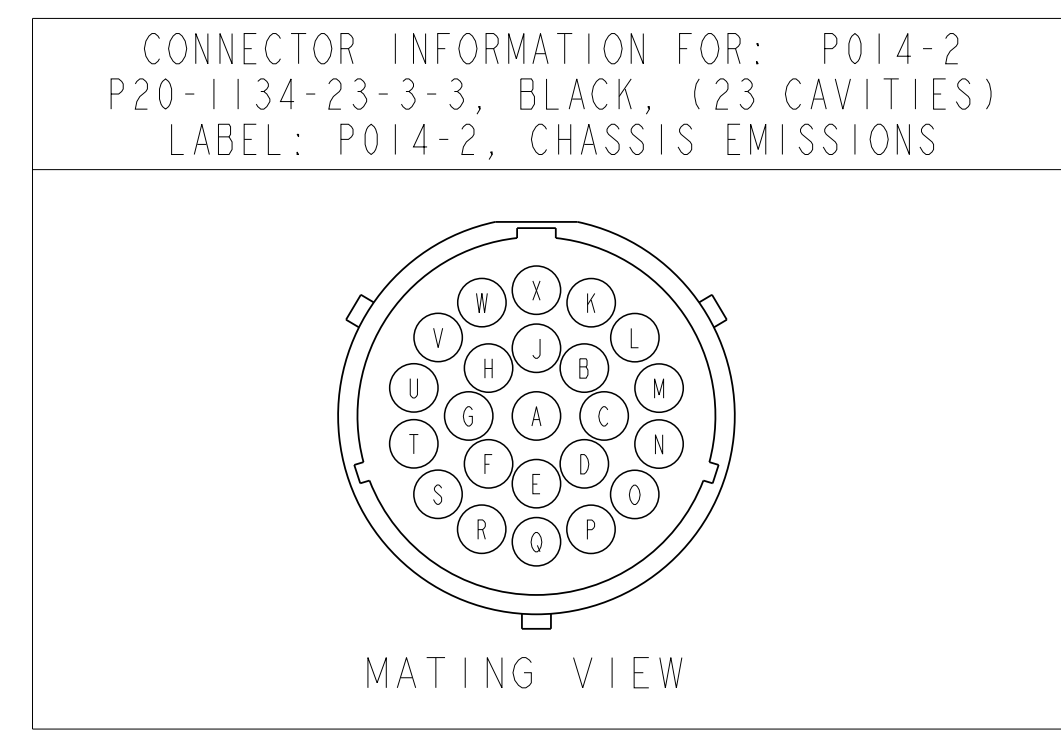


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PACCAR		DRAWING P94-2017	REV B
SHEET 4 OF 11		DWG SIZE A0	

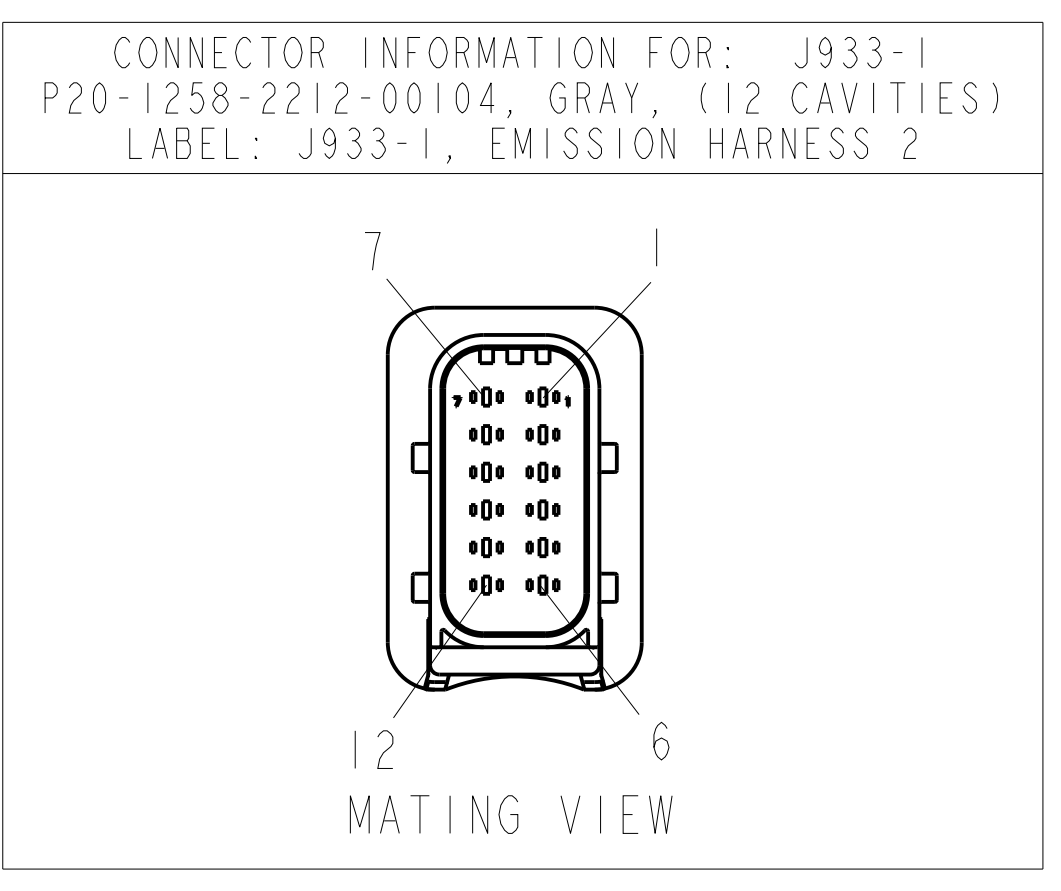
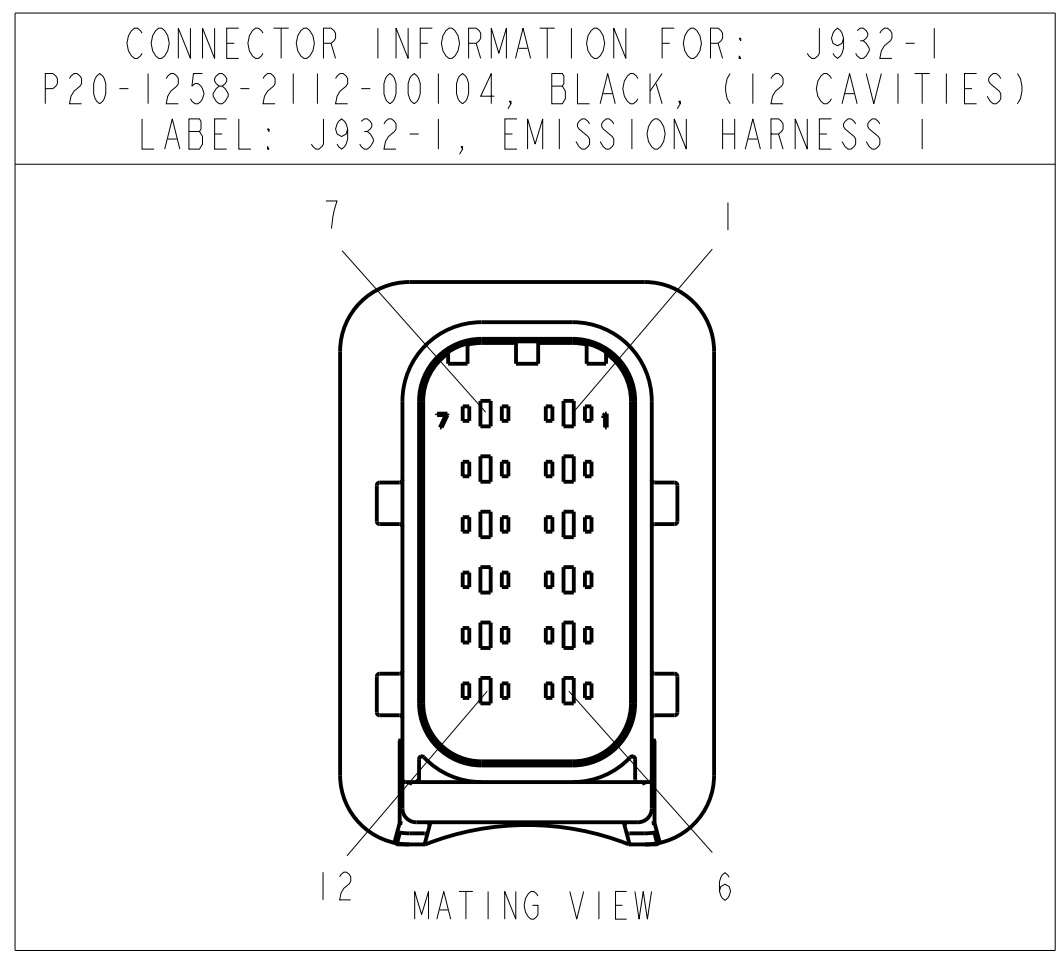
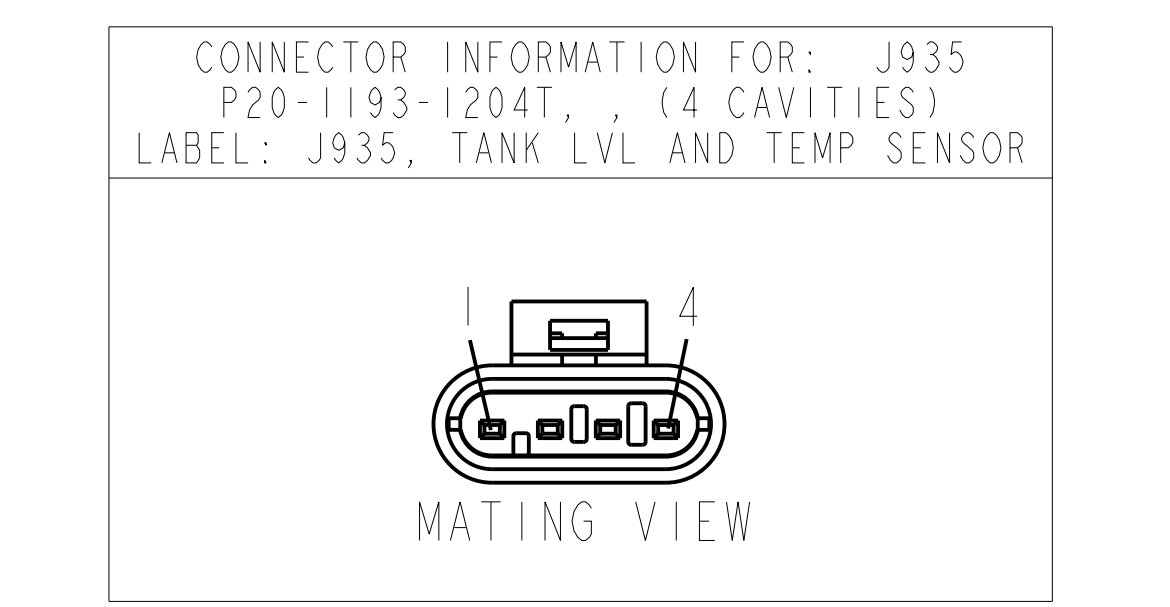
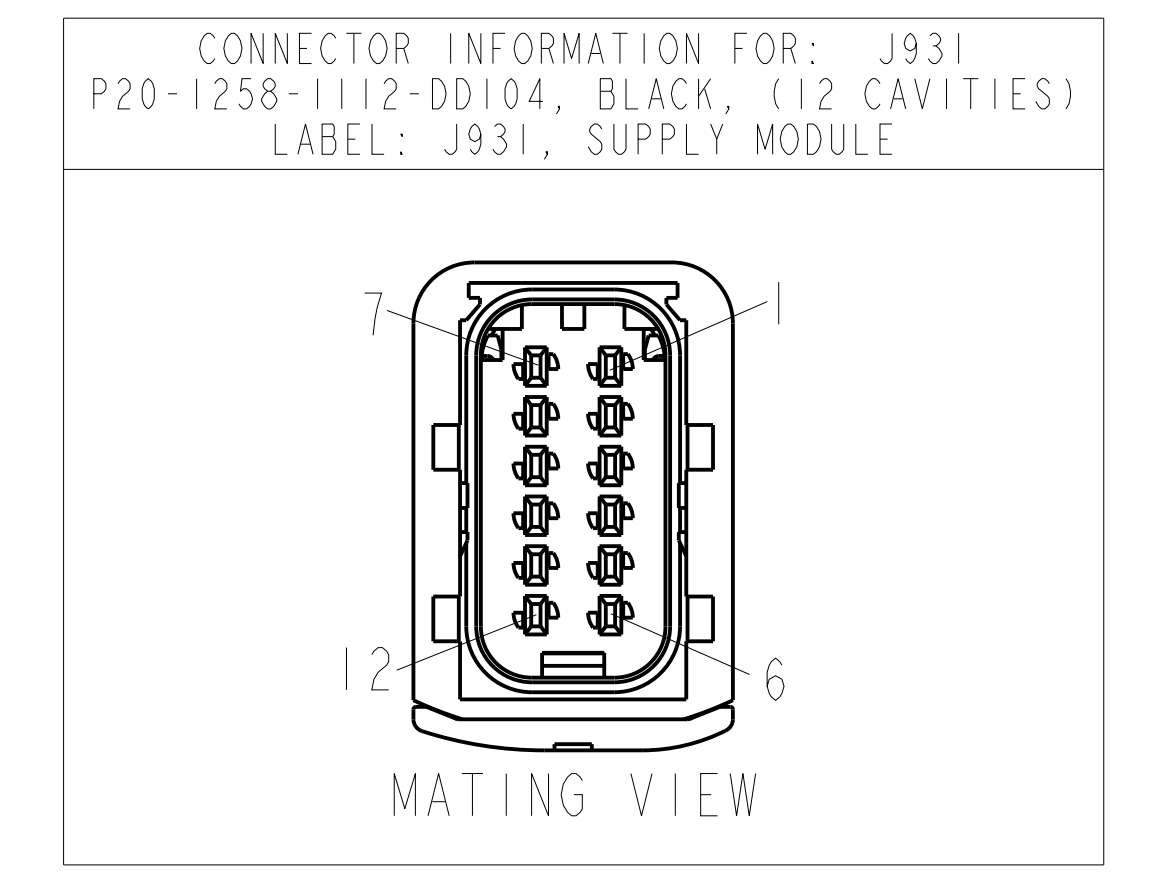
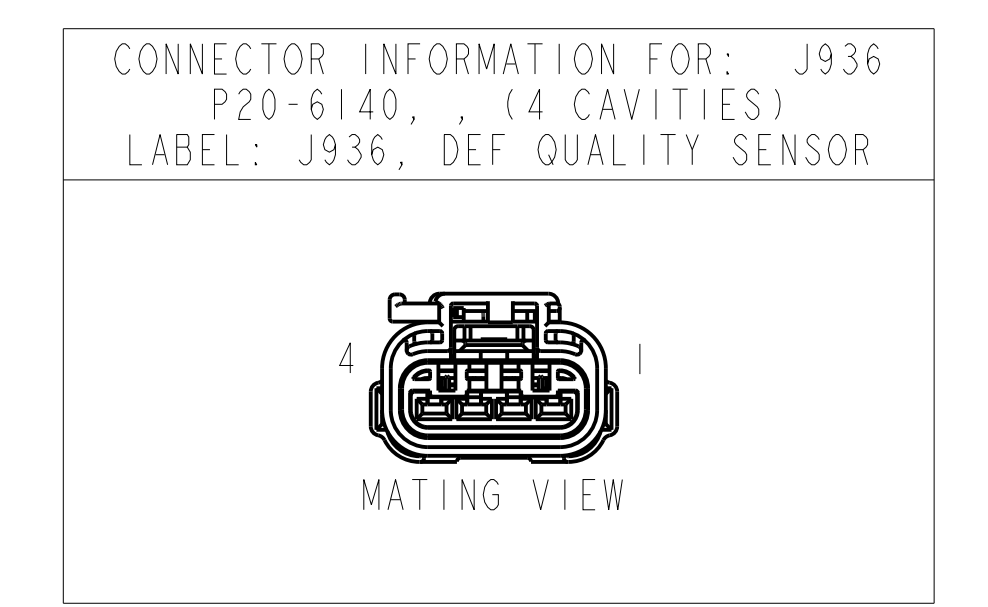
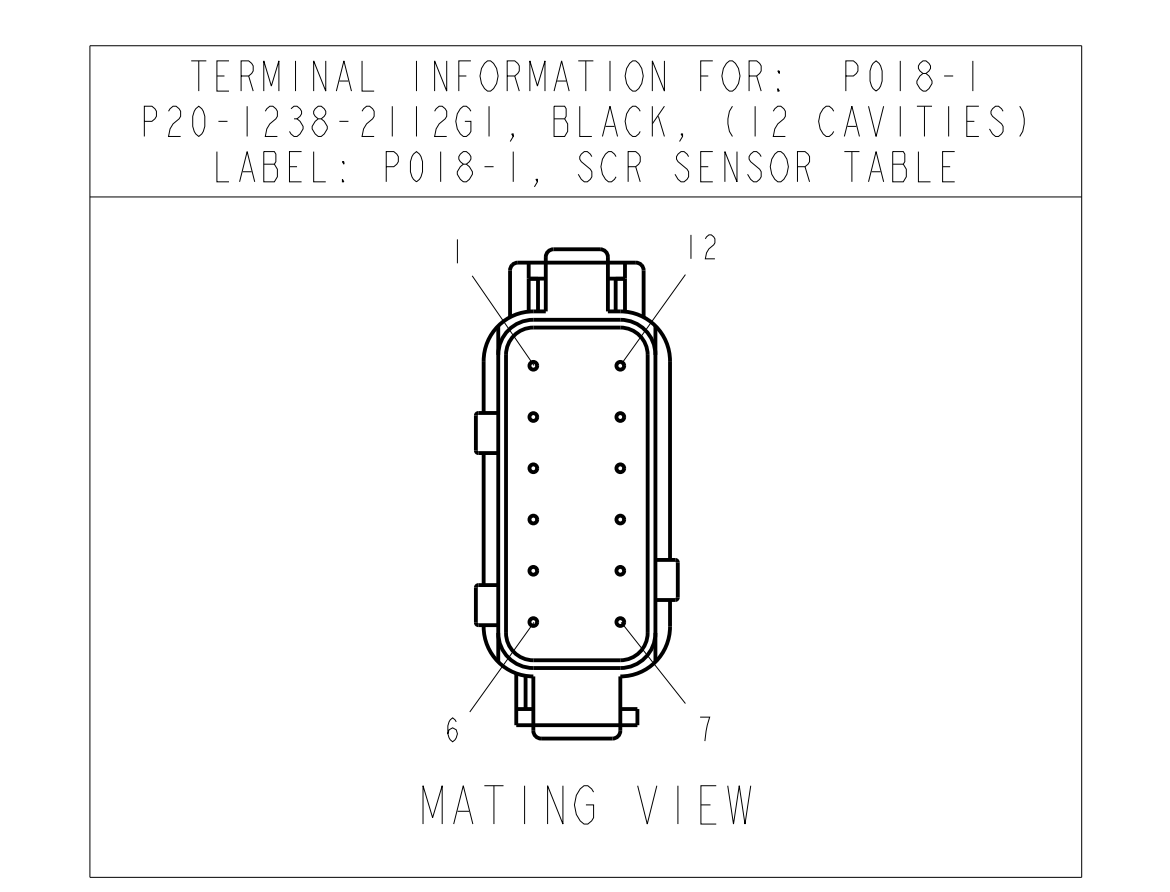
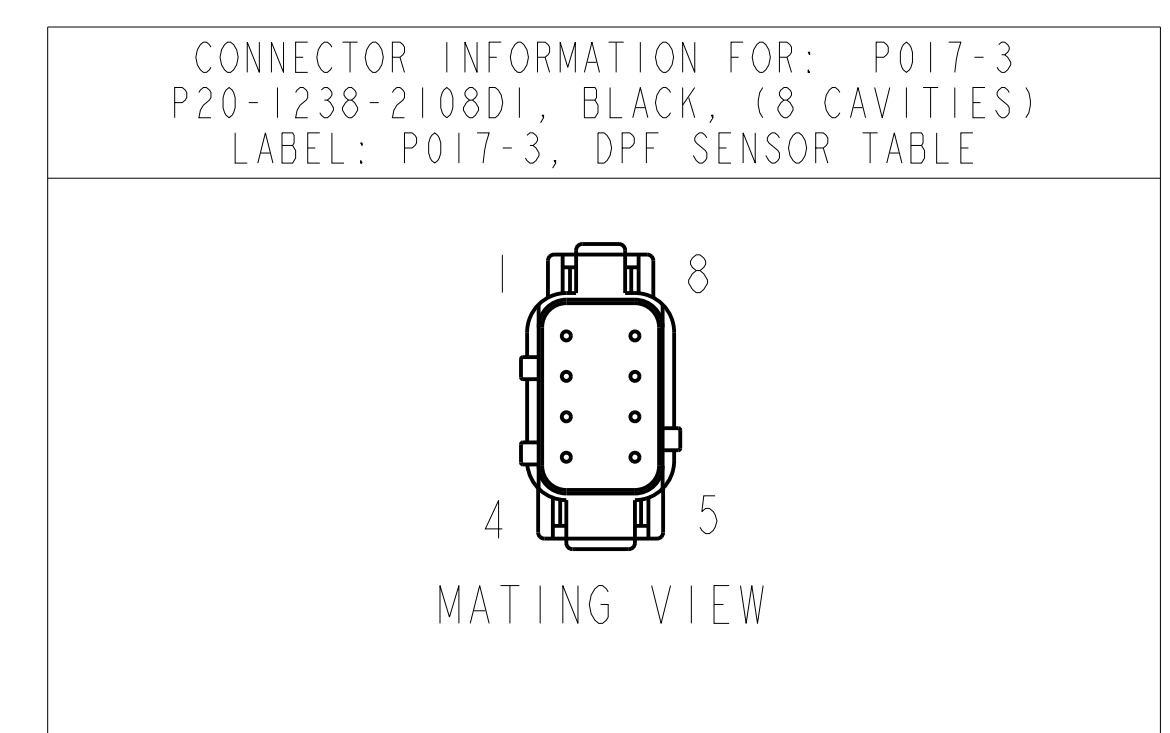
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A B C D E F G H I J K L



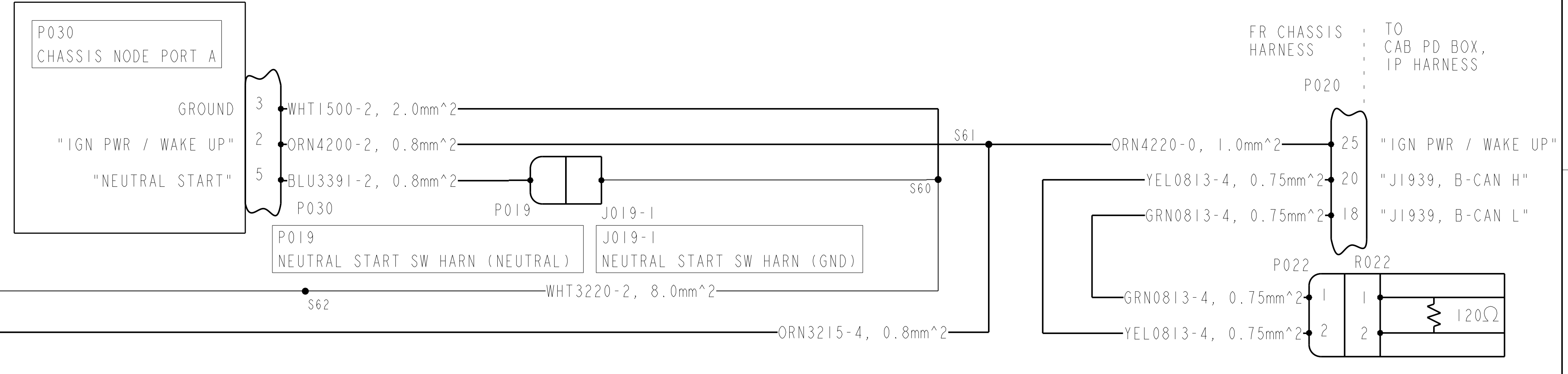
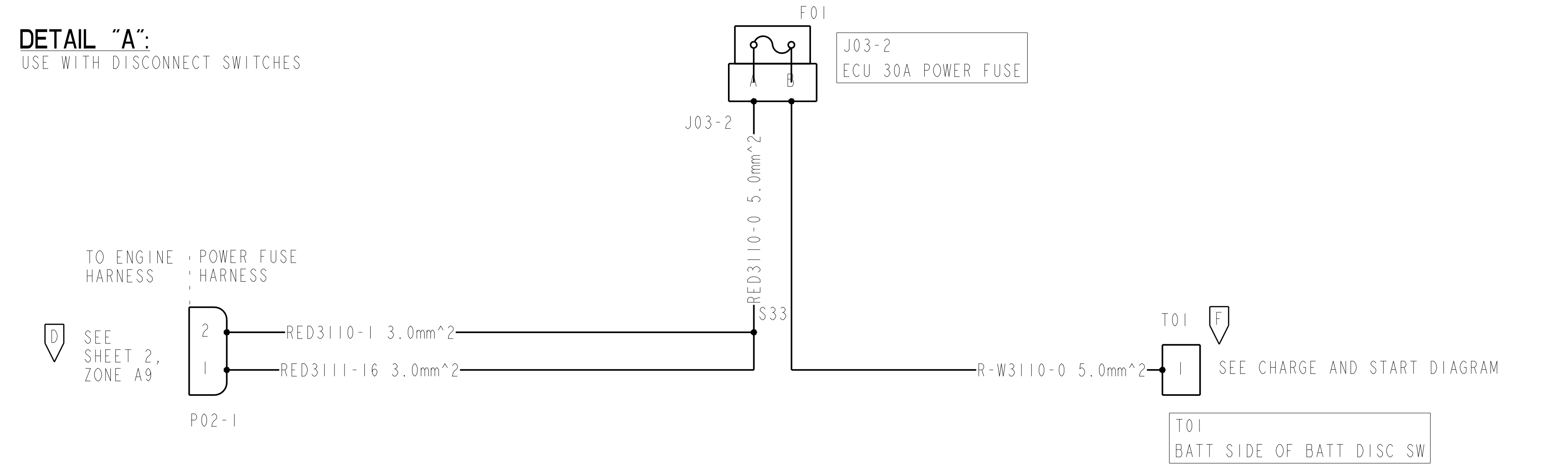
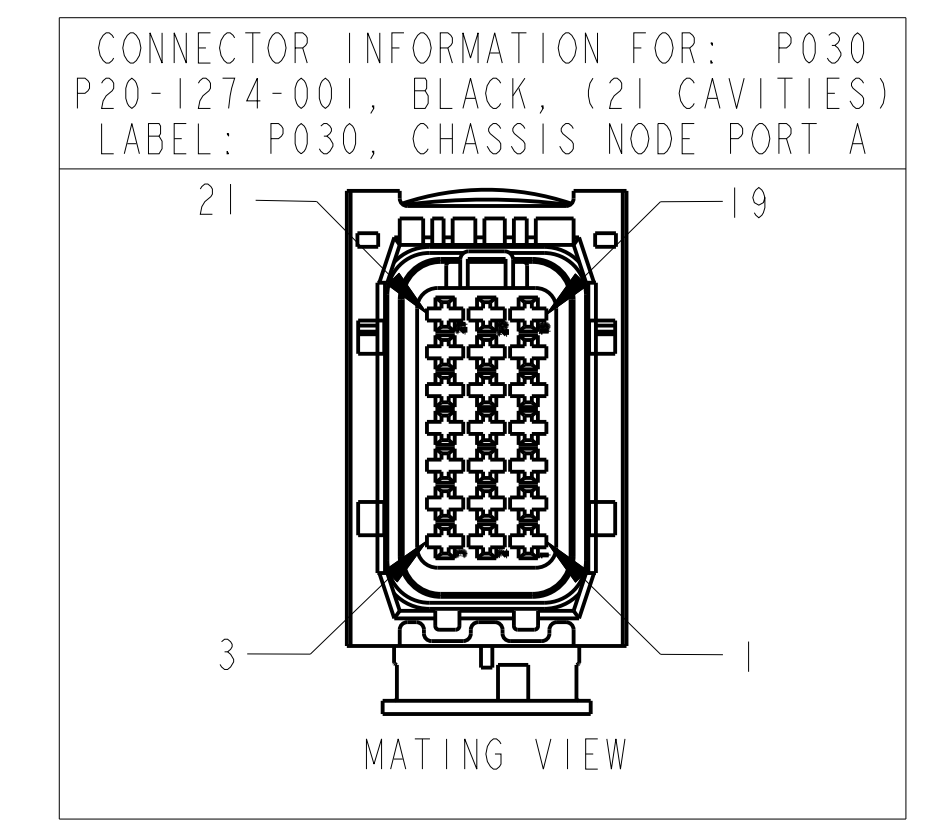
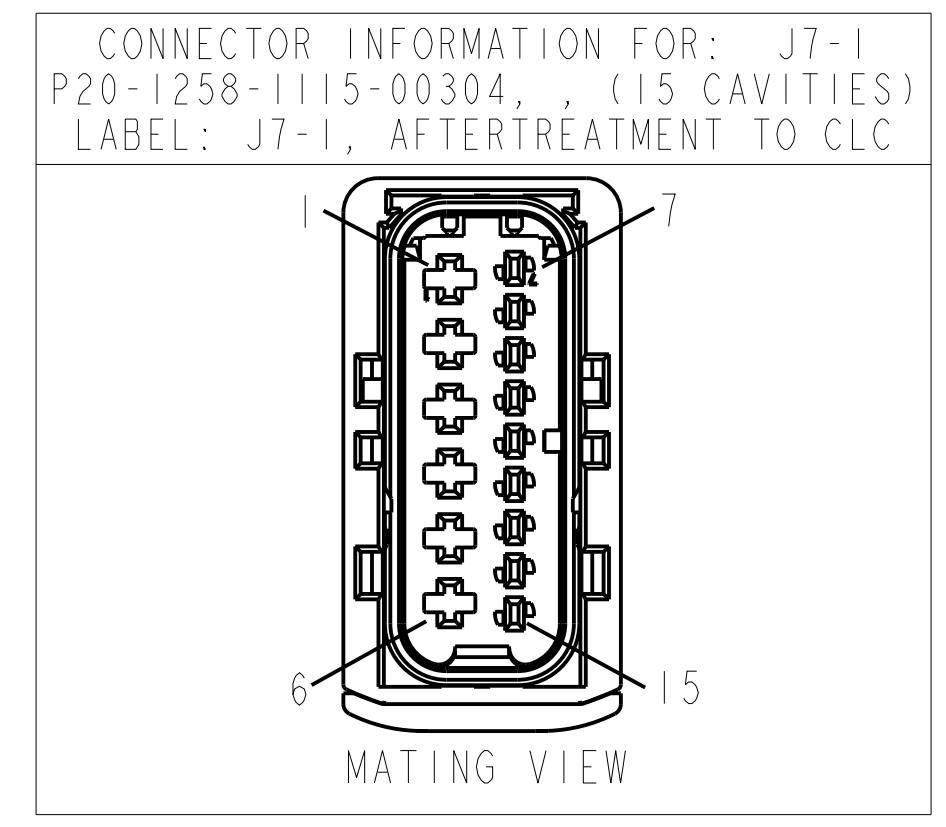
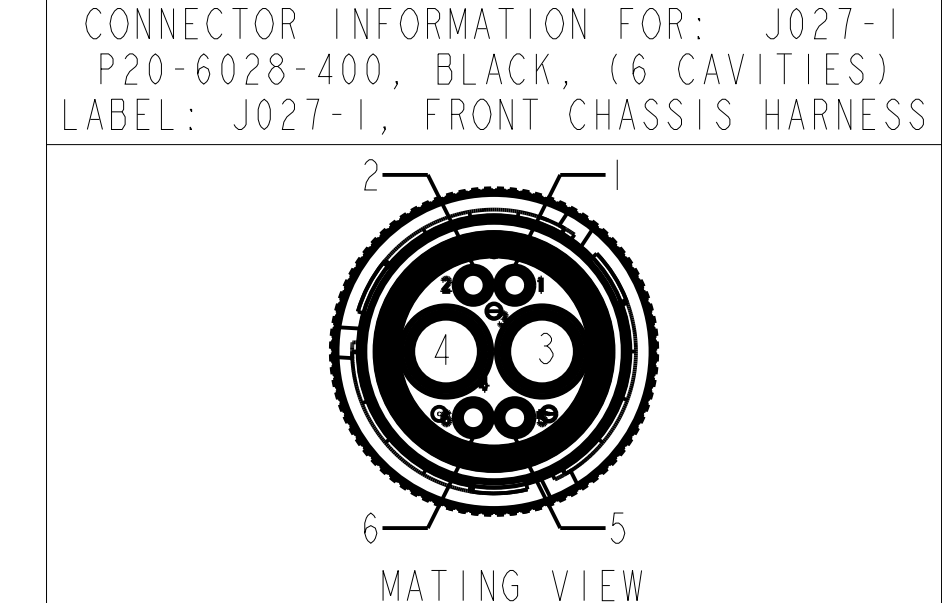
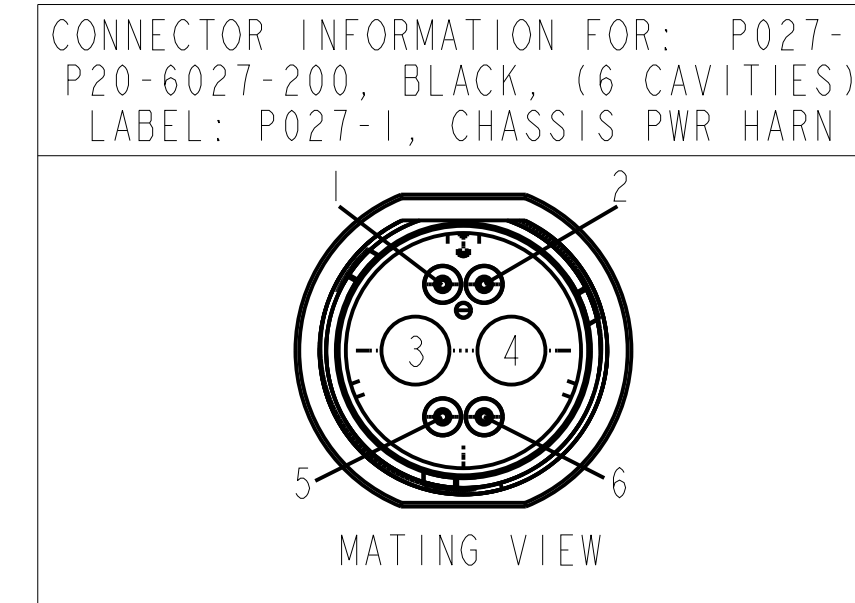
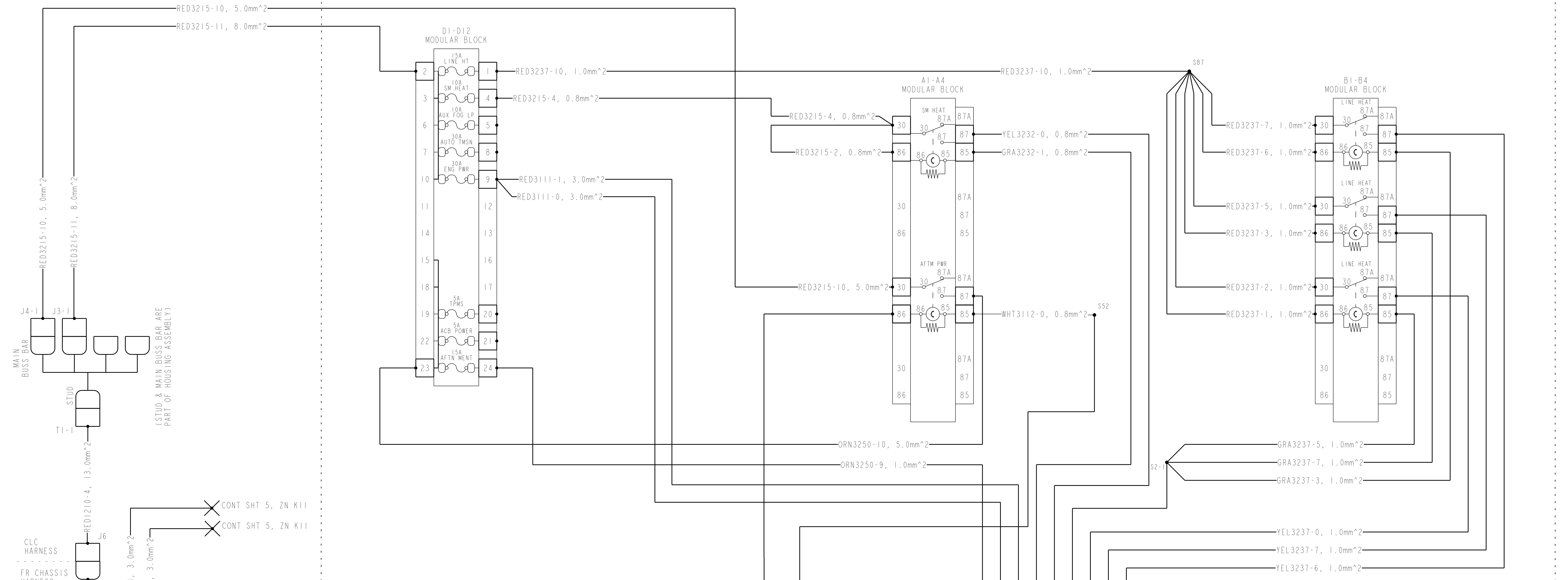


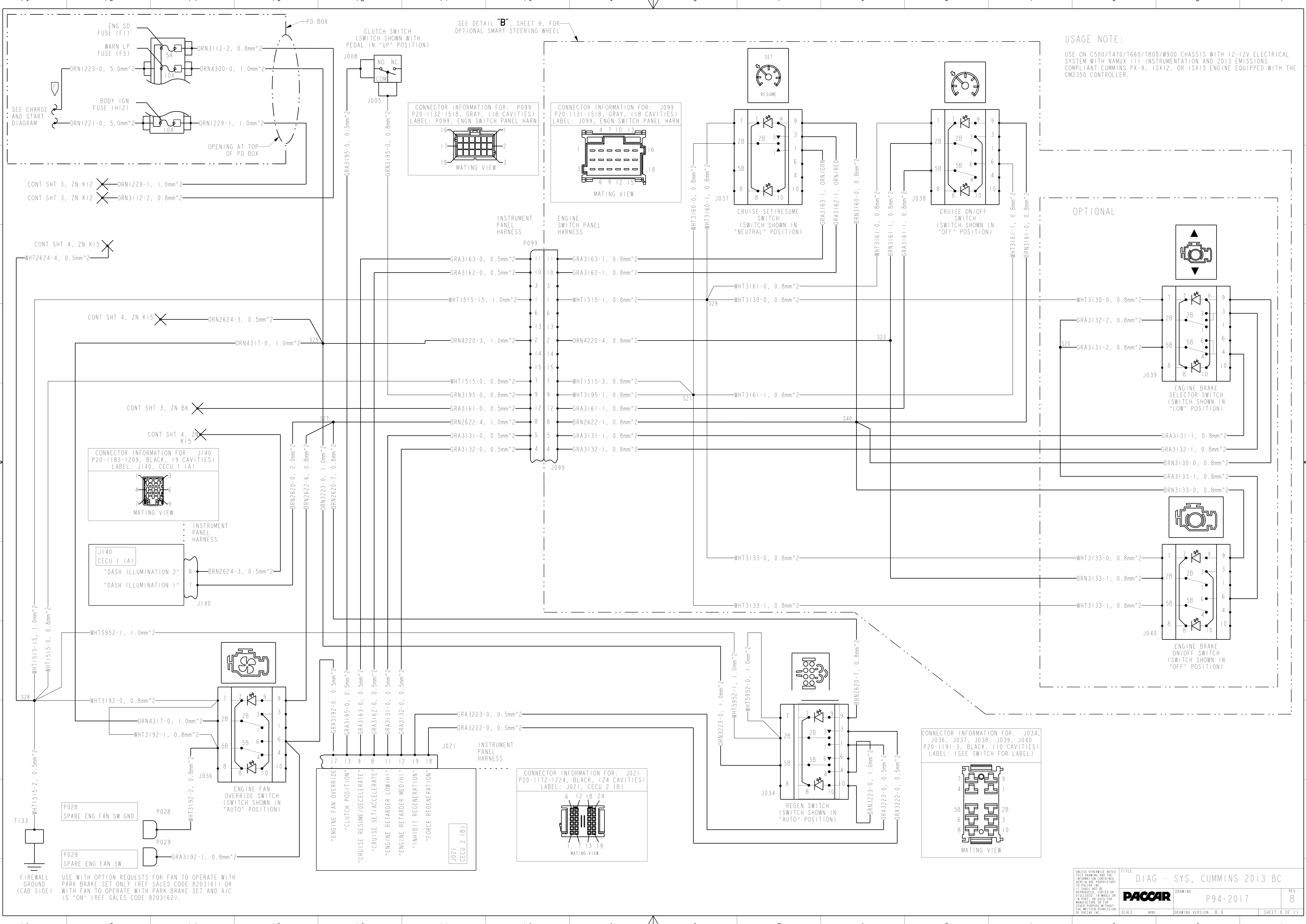
USAGE NOTE:
USE ON C500/T470/T660/T800/W900 CHASSIS WITH 12-12V ELECTRICAL SYSTEM WITH NAMUX 111 INSTRUMENTATION AND 2013 EMISSIONS COMPLIANT CUMMINS PX-9, 1SX12, OR 1SX15 ENGINE EQUIPPED WITH THE CM2350 CONTROLLER.



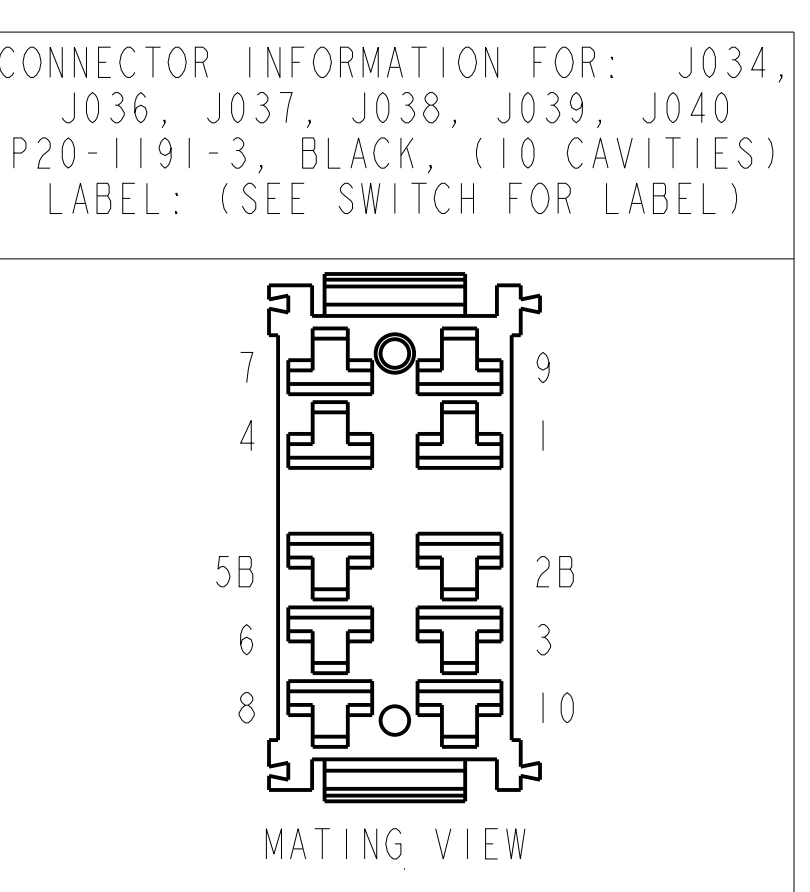
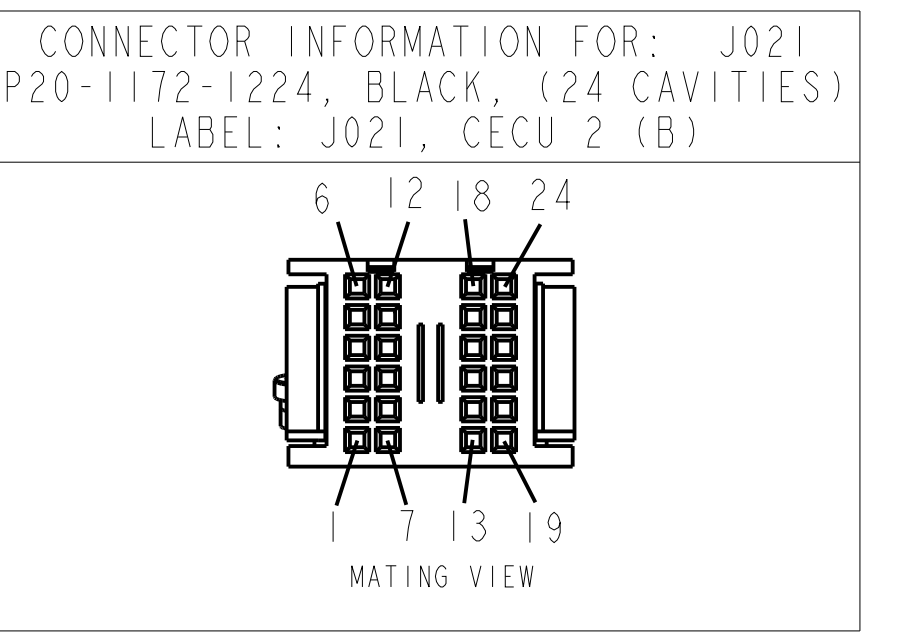
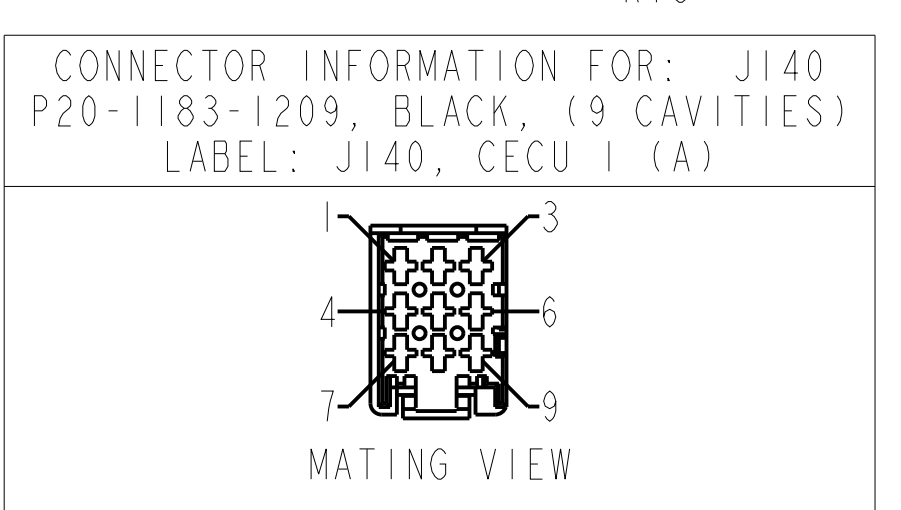
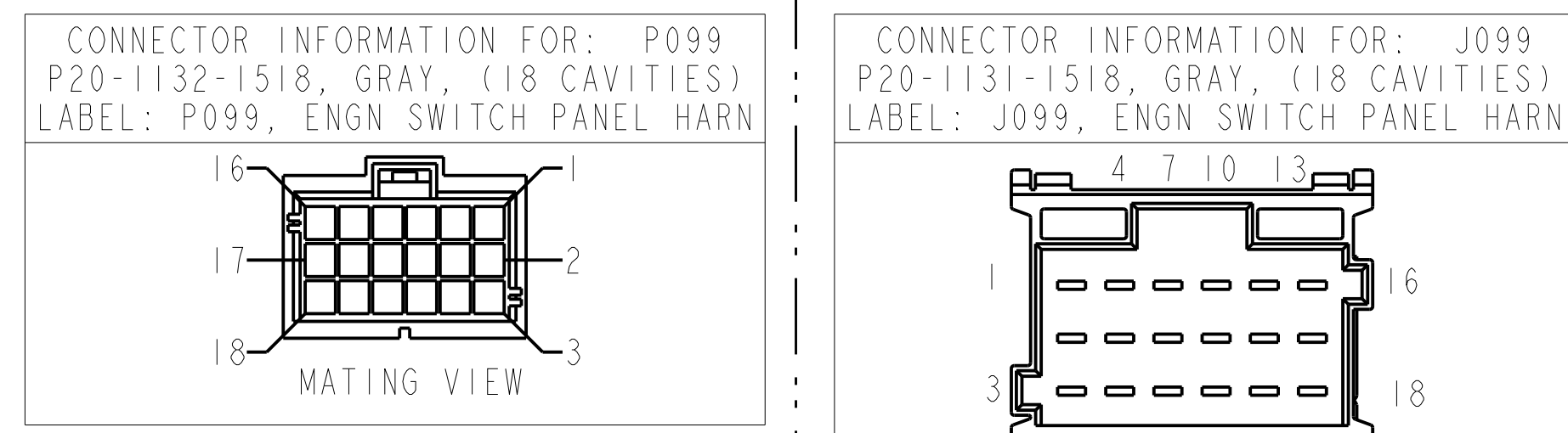
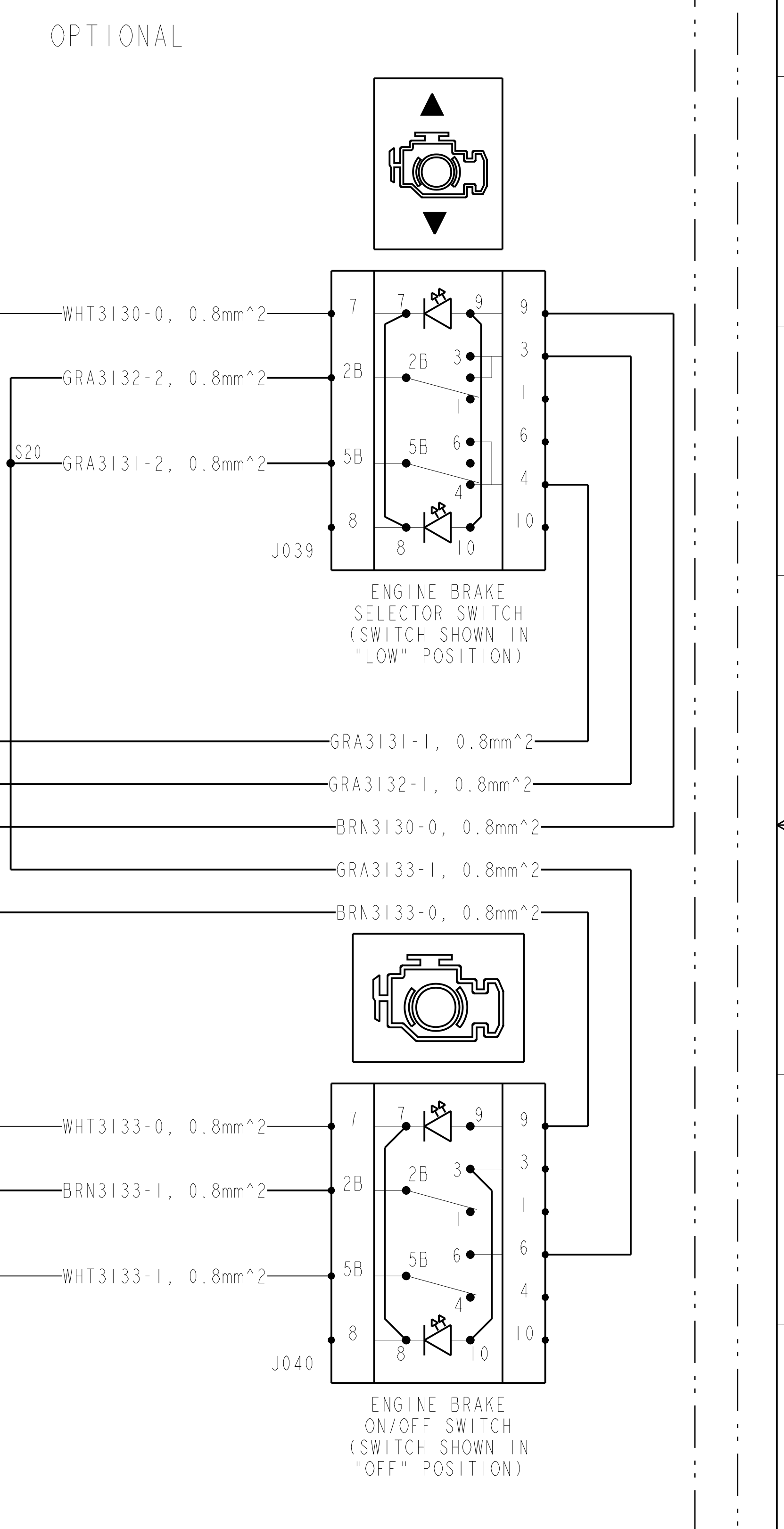
USAGE NOTE:
USE ON C500/T470/T660/T800/W900 CHASSIS WITH 12-12V ELECTRICAL SYSTEM WITH NAMUX III INSTRUMENTATION AND 2013 EMISSIONS COMPLIANT CUMMINS PX-9, ISX12, OR ISX15 ENGINE EQUIPPED WITH THE CM2350 CONTROLLER.

CLC (CHASSIS LOAD CENTER)





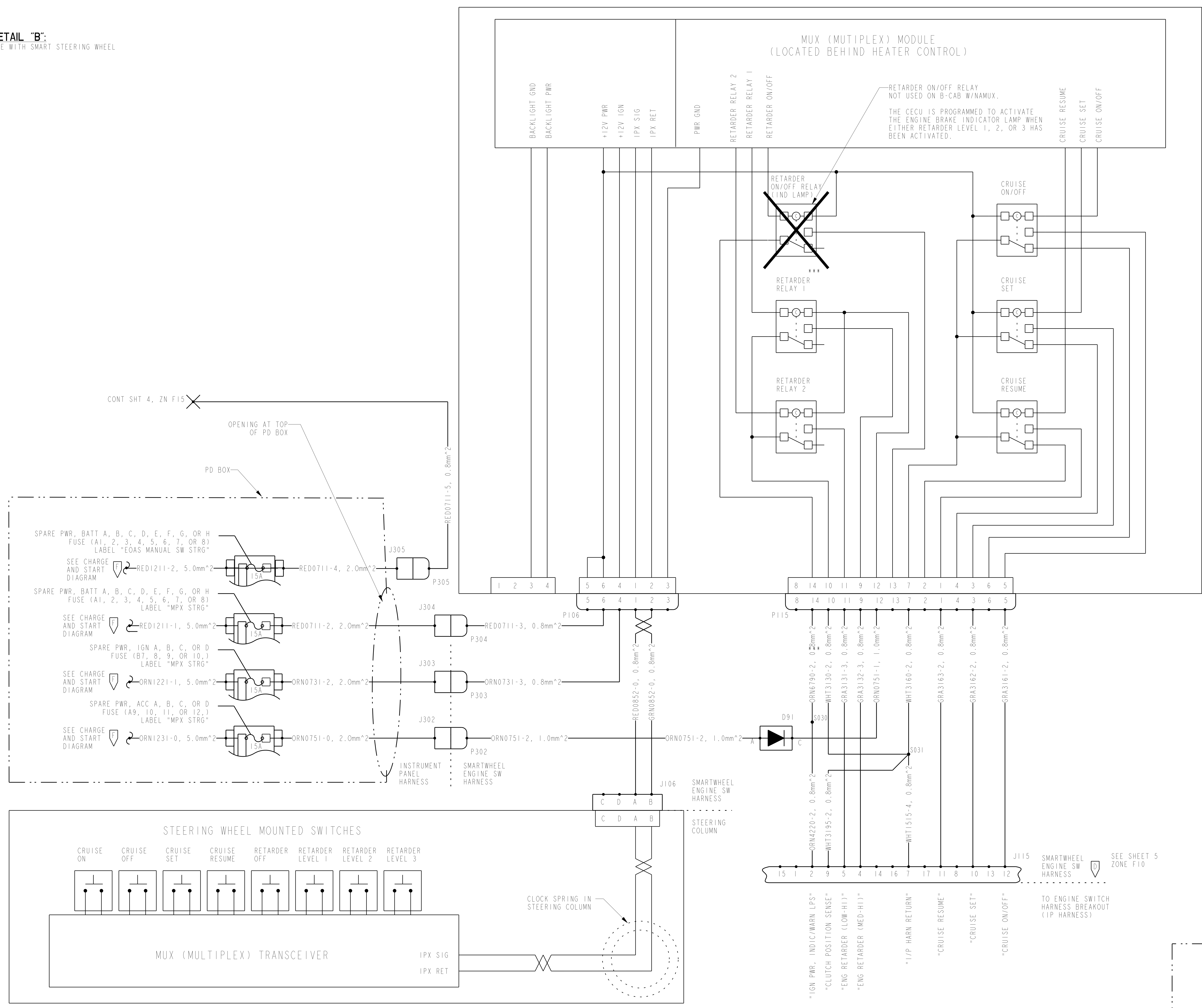
USAGE NOTE:
 USE ON C500/T470/T660/T800/W900 CHASSIS WITH 12-12V ELECTRICAL SYSTEM WITH NAMUX 111 INSTRUMENTATION AND 2013 EMISSIONS COMPLIANT CUMMINS PX-9, ISX12, OR ISX15 ENGINE EQUIPPED WITH THE CM2350 CONTROLLER.



FIREWALL GROUND (CAB SIDE)
 USE WITH OPTION REQUESTS FOR FAN TO OPERATE WITH PARK BRAKE SET ONLY (REF SALES CODE 8203161) OR WITH FAN TO OPERATE WITH PARK BRAKE SET AND A/C IS "ON" (REF SALES CODE 8203162).

DETAIL "B":
USE WITH SMART STEERING WHEEL

MUX (MULTIPLEX) MODULE
(LOCATED BEHIND HEATER CONTROL)

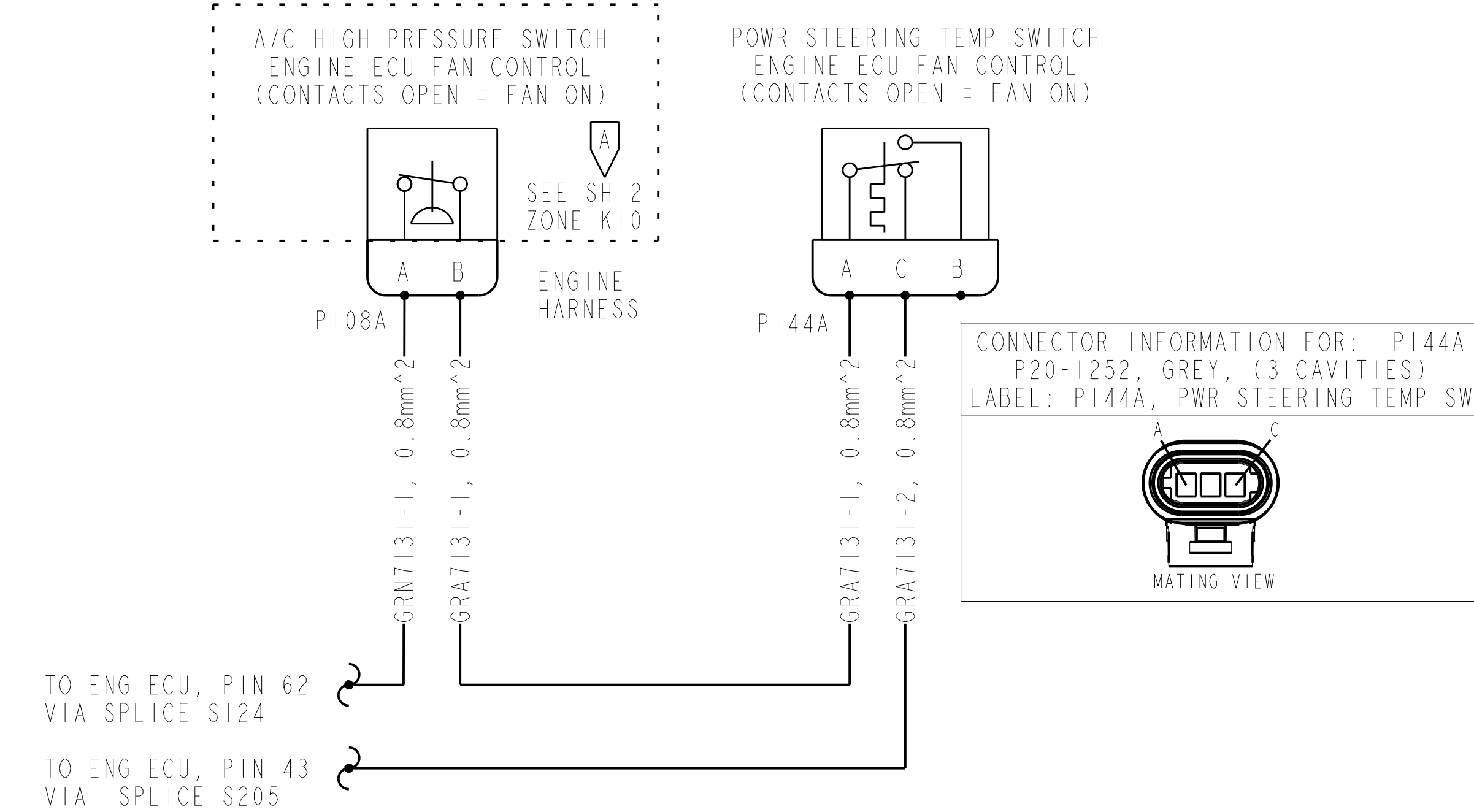


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DRAWING PACCAR		DRAWING VERSION B.9	SHEET 9 OF 11

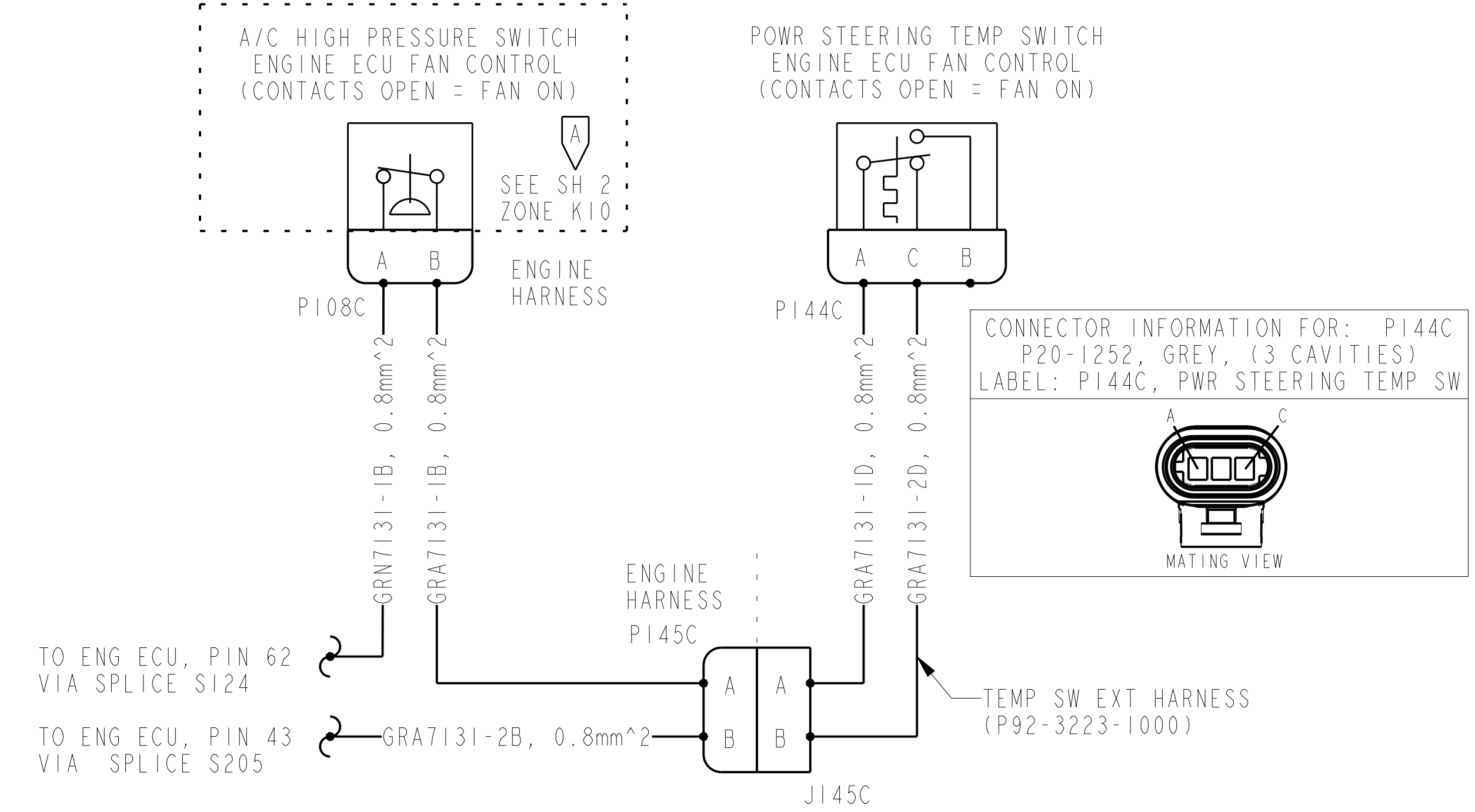
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DETAIL "A":

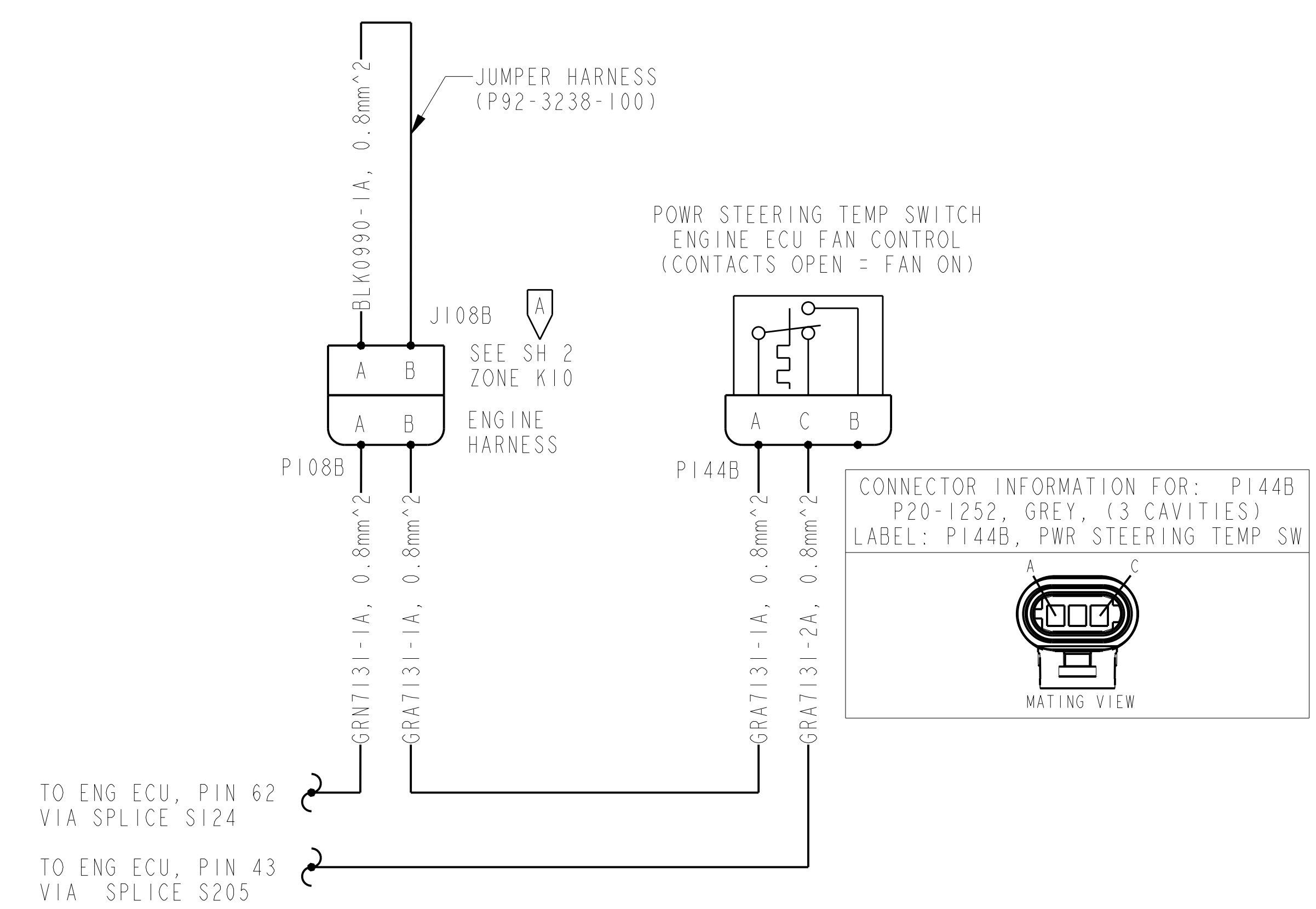
USE THIS DETAIL PER THE FOLLOWING CONDITIONS OF USE:
 - WITH RADIATOR MOUNTED POWER STEERING COOLER (S/C 2899336)
 - WITHOUT ROOF MOUNTED CONDENSOR (S/C 8109472)
 - WITHOUT CUSTOMER INSTALLED ENGINE CONTROLS (S/C 1902985)



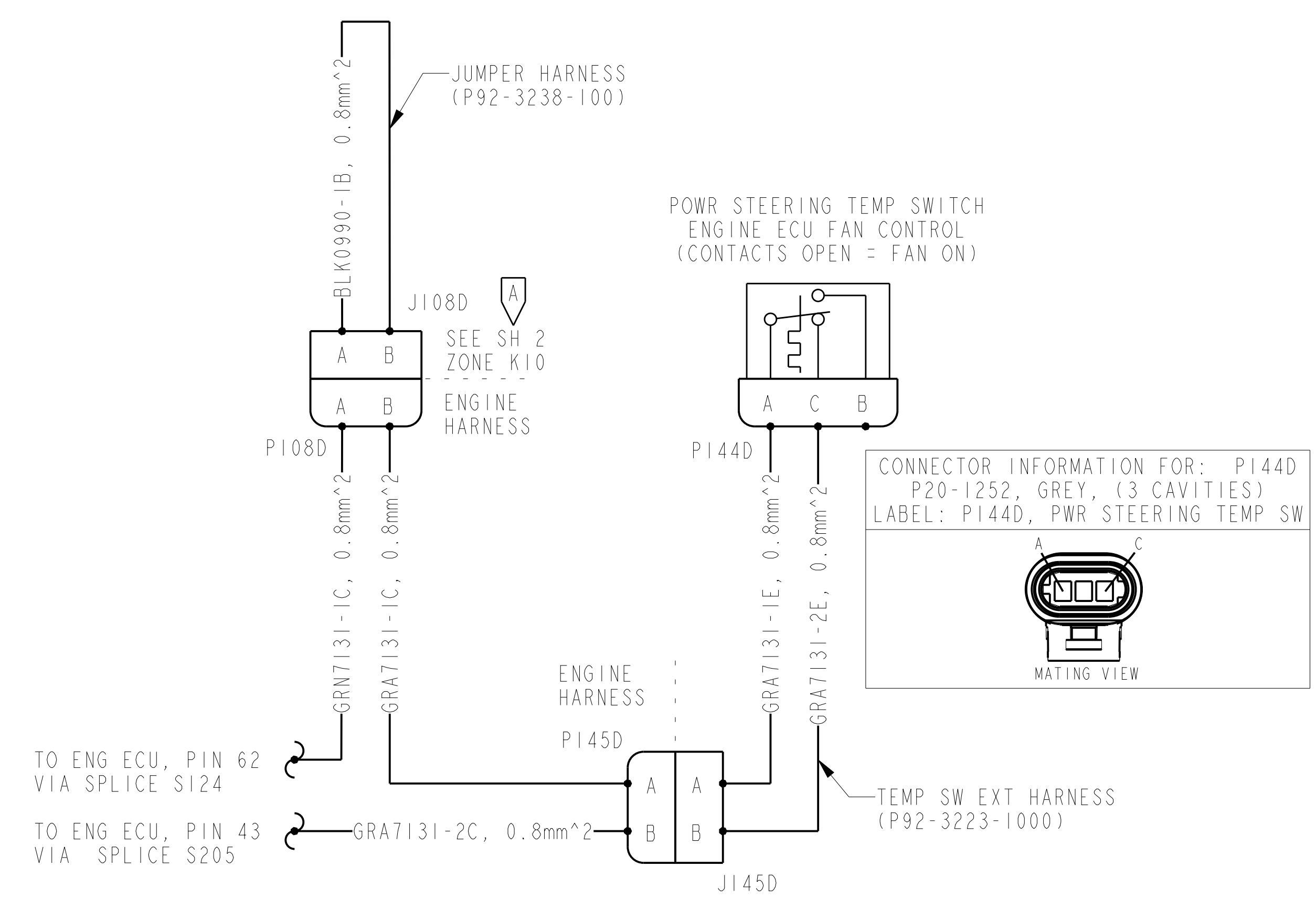
USE THIS DETAIL PER THE FOLLOWING CONDITIONS OF USE:
 - WITH RADIATOR MOUNTED POWER STEERING COOLER (S/C 2899336)
 - WITH CUSTOMER INSTALLED ENGINE CONTROLS (S/C 1902985)
 - WITHOUT ROOF MOUNTED CONDENSOR (S/C 8109472)



USE THIS DETAIL PER THE FOLLOWING CONDITIONS OF USE:
 - WITH RADIATOR MOUNTED POWER STEERING COOLER (S/C 2899336)
 - WITH ROOF MOUNTED CONDENSOR (S/C 8109472)
 - WITHOUT CUSTOMER INSTALLED ENGINE CONTROLS (S/C 1902985)

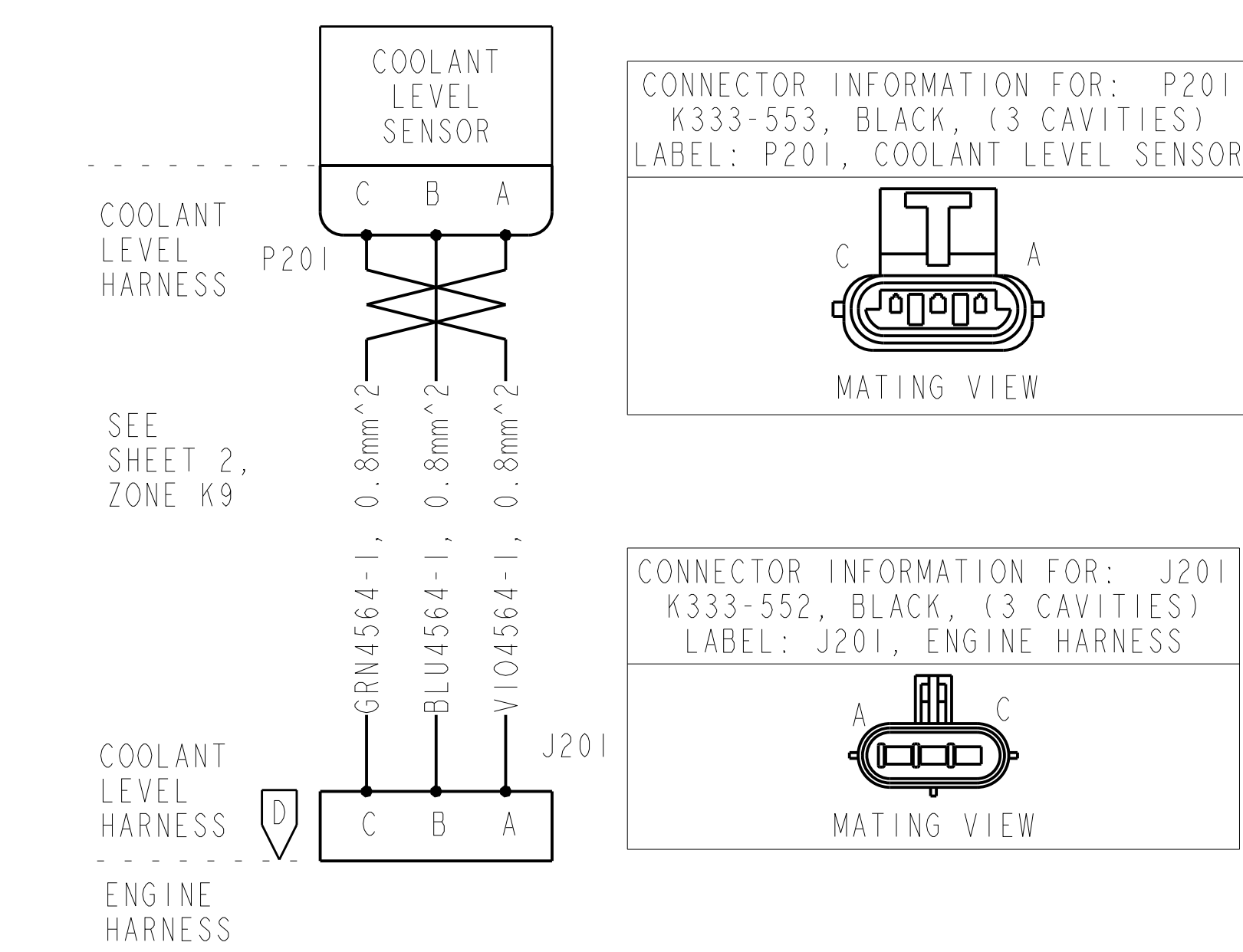


USE THIS DETAIL PER THE FOLLOWING CONDITIONS OF USE:
 - WITH RADIATOR MOUNTED POWER STEERING COOLER (S/C 2899336)
 - WITH ROOF MOUNTED CONDENSOR (S/C 8109472)
 - WITH CUSTOMER INSTALLED ENGINE CONTROLS (S/C 1902985)



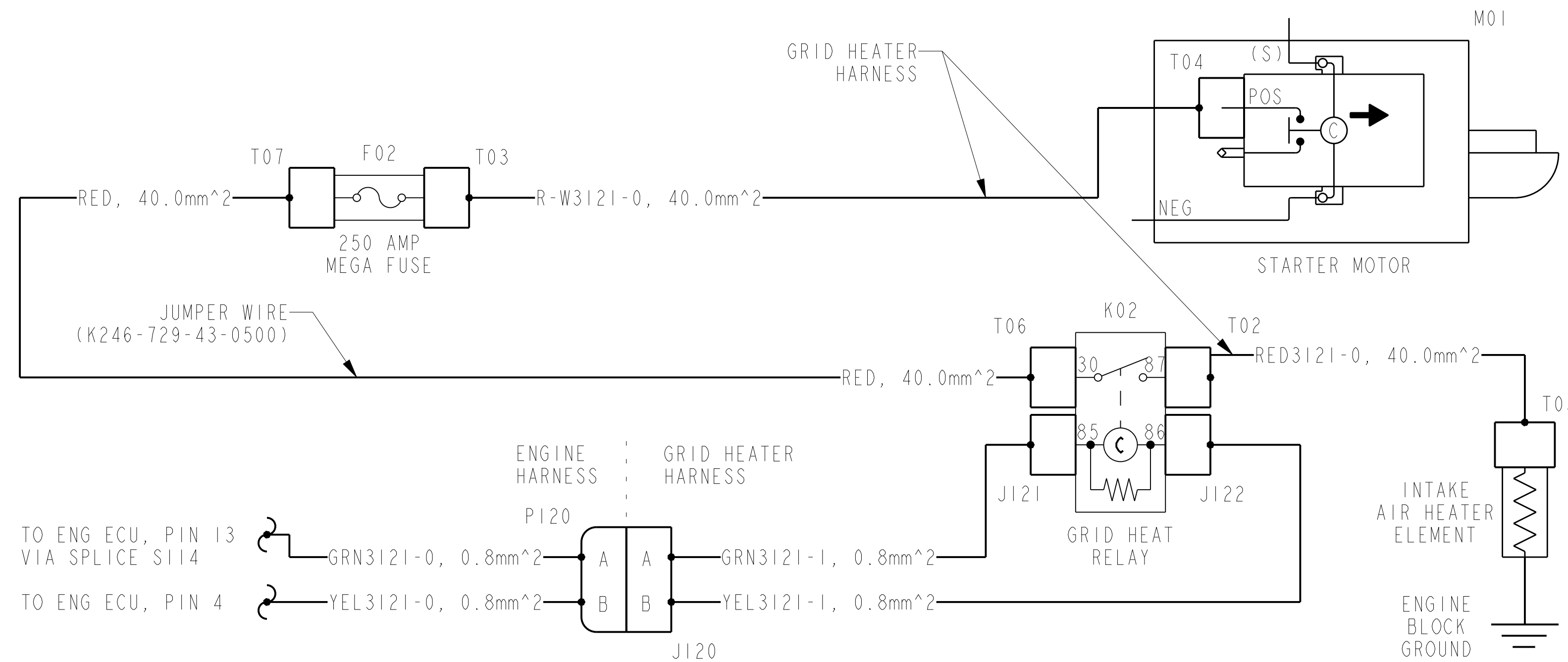
DETAIL "D":

USE WITH COOLANT LEVEL HARNESS
(e.g. IMMERSION TYPE COOLANT LEVEL SENSOR)



DETAIL "E":

AIR INTAKE HEATER WIRING; FOR USE WITH
PACCAR PX-8 OR CUMMINS ISL9 ENGINES ONLY



MULTIPLEXING IS THE SENDING OF MULTIPLE SIGNALS OR DATA STREAMS OF INFORMATION OVER A TRANSMISSION LINE(S), AND THEN RECOVERING BY SEPARATING THE MULTIPLE SIGNALS OR DATA.

EXAMPLE: INSTEAD OF THE ENGINE ECU (ELECTRONIC CONTROL UNIT) RECEIVING A DIRECT (HARDWIRED) SWITCHED INPUT SIGNAL FROM THE CRUISE CONTROL ON-OFF SWITCH IN THE DASH, IT RECEIVES A DATA BUS COMMUNICATION MESSAGE VIA SAE J1939 DATA LINK BUS FROM THE CECU (CAB ELECTRONIC CONTROL UNIT) WHICH HAS RECEIVED A DIRECT SWITCHED INPUT FROM THE CRUISE CONTROL ON-OFF SWITCH THAT IT HAS BEEN PLACED IN THE "ON" POSITION.

THE FOLLOWING IS A LIST OF FUNCTIONS THAT ARE BEING MULTIPLEXED VIA PUBLIC & PRIVATE DATA LINK BUSES THAT ARE FOLLOWING THE ARCHITECTURE & PROTOCOLS PER THE SAE J1939 SPECIFICATION:

SWITCHES	HARDWIRED CECU INPUT	MULTIPLEXED J1939 DATA BUS (POWERTRAIN / VCAN)		MULTIPLEXED J1939 DATA BUS (INSTRUMENTATION / ICAN)		TYPICAL LOCATION	APPLICATION
		CECU INPUT	CECU OUTPUT	CECU INPUT	CECU OUTPUT		
CRUISE CONTROL ON-OFF SWITCH	M		N/A			DASH AREA #4	CECU RECEIVES A HARDWIRE SIGNAL INPUT FROM THE DASH SWITCH AND OUTPUTS A MESSAGE ON THE "POWERTRAIN" J1939 DATA BUS.
CRUISE CONTROL SET/RESUME SWITCH	M		N/A			DASH AREA #4	THE CECU RECEIVES A HARDWIRE SIGNAL INPUT FROM THE DASH SWITCH AND OUTPUTS A MESSAGE ON THE "POWERTRAIN" J1939 DATA BUS.
ENGINE RETARDER ON-OFF SWITCH	M		N/A			DASH AREA #4	FOR CHASSIS NOT EQUIPPED WITH SMARTWHEEL (MULTIPLY STEERING WHEEL) THE ENGINE RETARDER ON-OFF & BRAKE LEVEL SWITCHES ARE HARD-WIRED TOGETHER IN SERIES, AND ARE RECEIVED AS INPUTS TO THE CECU. SEE LOGIC TABLE BELOW FOR ENGINE BRAKE SWITCHES. THE ENGINE BRAKE INDICATOR LAMP IS LOCATED IN THE ON/OFF ENGINE BRAKE SWITCH AND IS ACTIVATED WHEN ITS SWITCH CONTACTS ARE CLOSED WITH 12V.
ENGINE RETARDER BRAKE LEVEL SWITCH							FOR CHASSIS EQUIPPED WITH SMARTWHEEL, THE CECU IS PROGRAMMED TO ACTIVATE THE ENGINE BRAKE INDICATOR LAMP LOCATED IN THE INSTRUMENT CLUSTER WHEN EITHER RETARDER LEVEL SWITCHES 1, 2, OR 3 HAS BEEN ACTIVATED. THESE SWITCHES ARE LOCATED ON THE SMARTWHEEL. SEE LOGIC TABLE BELOW FOR SMARTWHEEL ENGINE BRAKE SWITCHES.
ENGINE FAN AUTO/MANUAL SWITCH	M		N/A			DASH AREA #1	CECU RECEIVES A HARDWIRE SIGNAL INPUT FROM THE DASH SWITCH AND OUTPUTS A MESSAGE ON THE "POWERTRAIN" J1939 DATA BUS.
CLUTCH SWITCH	M		N/A			CLUTCH PEDAL BRACKET	THE CECU RECEIVES A HARDWIRE SIGNAL INPUT FROM THE CLUTCH SWITCH AND OUTPUTS A MESSAGE ON THE "POWERTRAIN" J1939 DATA BUS.
SERVICE BRAKE SENSE	M		N/A			AIR JUNCTION BLOCK	THE CECU RECEIVES A HARDWIRE SIGNAL INPUT FROM THE APPLICATION AIR PRESSURE TRANSDUCER AND OUTPUTS A MESSAGE ON THE "POWERTRAIN" J1939 DATA BUS.

USE ESA TO M = MONITOR OR S = SIMULATE
ESA DIAGNOSTIC N/A = NOT AVAILABLE

LAMPS	HARDWIRED CECU INPUT	MULTIPLEXED J1939 DATA BUS (POWERTRAIN / VCAN)		MULTIPLEXED J1939 DATA BUS (INSTRUMENTATION / ICAN)		TYPICAL LOCATION	APPLICATION
		CECU INPUT	CECU OUTPUT	CECU INPUT	CECU OUTPUT		
ENGINE RETARDER INDICATOR LAMP		M			S	LH TELLTALE POSITION #1	THE CECU RECEIVES INPUTS FROM THE SMARTWHEEL MODULE AND THEN OUTPUTS A MESSAGE ON THE "INSTRUMENTATION" J1939 DATA BUS TO ACTIVATE THE INDICATOR/WARNING LAMP IN GAUGE CLUSTER.
HEAT WARNING LAMP		M			S	RH TELLTALE POSITION #13	THE CECU RECEIVES A MESSAGE FROM THE "POWERTRAIN" J1939 DATA BUS AND THEN OUTPUTS A MESSAGE ON THE "INSTRUMENTATION" J1939 DATA BUS TO ACTIVATE THE INDICATOR/WARNING LAMP IN GAUGE CLUSTER.
ENGINE FAN INDICATOR LAMP		M			S	TACHOMETER POSITION #21	THE CECU RECEIVES A MESSAGE FROM THE "POWERTRAIN" J1939 DATA BUS AND THEN OUTPUTS A MESSAGE ON THE "INSTRUMENTATION" J1939 DATA BUS TO ACTIVATE THE INDICATOR/WARNING LAMP IN GAUGE CLUSTER.
REGENERATION WARNING LAMP		M			S	TACHOMETER POSITION #24	THE CECU RECEIVES A MESSAGE FROM THE "POWERTRAIN" J1939 DATA BUS AND THEN OUTPUTS A MESSAGE ON THE "INSTRUMENTATION" J1939 DATA BUS TO ACTIVATE THE INDICATOR/WARNING LAMP IN GAUGE CLUSTER.
COOLANT LEVEL "LOW" INDICATOR LAMP		M			S	SPEEDOMETER POSITION #25	THE CECU RECEIVES A MESSAGE FROM THE "POWERTRAIN" J1939 DATA BUS AND THEN OUTPUTS A MESSAGE ON THE "INSTRUMENTATION" J1939 DATA BUS TO ACTIVATE THE INDICATOR/WARNING LAMP IN GAUGE CLUSTER.

USE ESA TO M = MONITOR OR S = SIMULATE
ESA DIAGNOSTIC N/A = NOT AVAILABLE

ENGINE BRAKE SWITCHES WITHOUT SMARTWHEEL

SWITCH POSITIONS		INPUTS CECU 2 (B)	
ON/OFF	BRAKE LEVEL	PIN 12	PIN 11
OFF	LOW	0	0
OFF	MEDIUM	0	0
OFF	HIGH	0	0
ON	LOW	0	1
ON	MEDIUM	1	0
ON	HIGH	1	1

SIGNAL TYPE
0 = FLOATING, SWITCH CONTACTS OPEN
1 = GROUNDED, SWITCH CONTACTS CLOSED

ENGINE BRAKE SWITCHES WITH SMARTWHEEL

SMARTWHEEL SWITCHES		INPUTS CECU 2 (B)	
OFF/1/2/3	RELAY	PIN 12	PIN 11
OFF	#1 & #2	0	0
1	#2	0	1
2	#1	1	0
3	#1 & #2	1	1

SIGNAL TYPE
0 = FLOATING, RELAY SWITCH CONTACTS OPEN
1 = GROUNDED, RELAY SWITCH CONTACTS CLOSED

