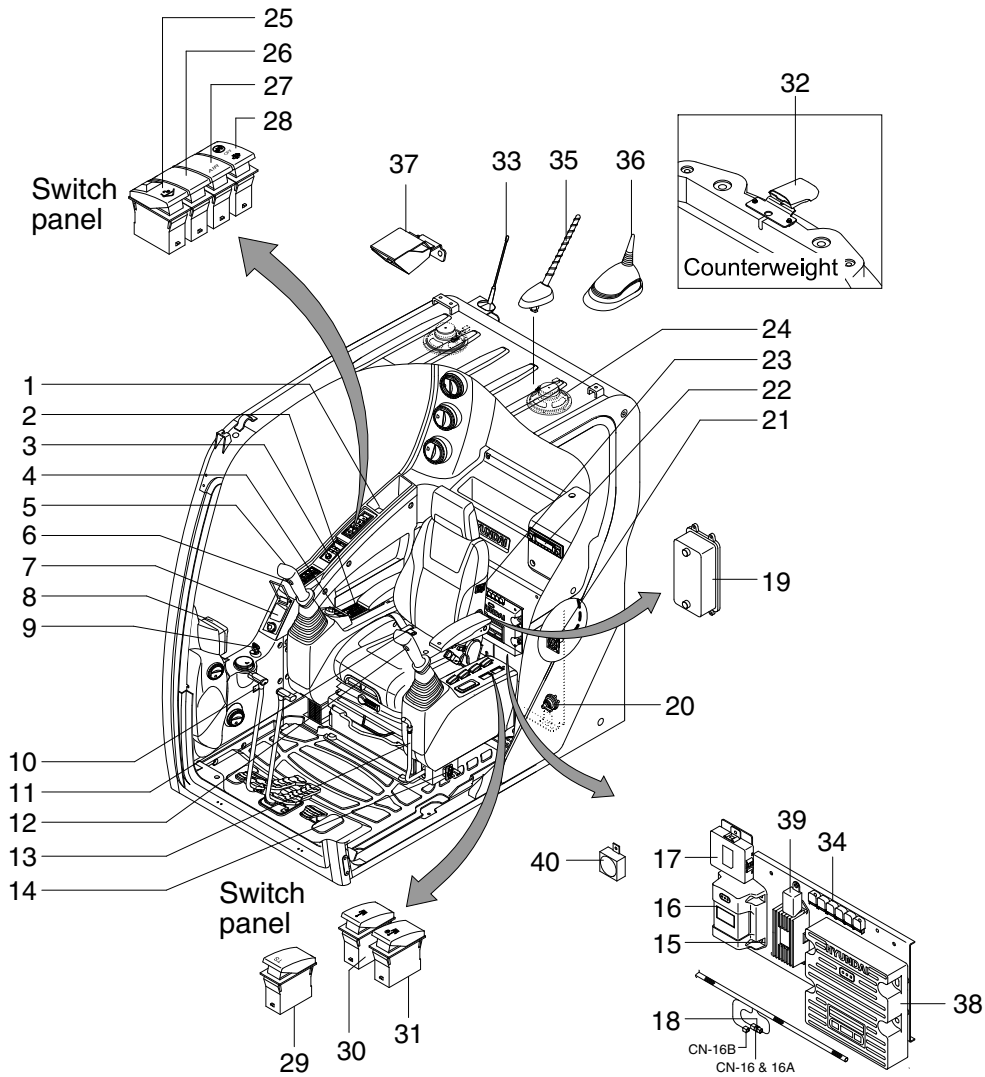


SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location	4-1
Group 2 Electrical Circuit	4-3
Group 3 Electrical Component Specification	4-23
Group 4 Connectors	4-34

GROUP 1 COMPONENT LOCATION

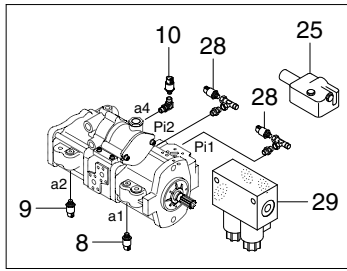
1. LOCATION 1



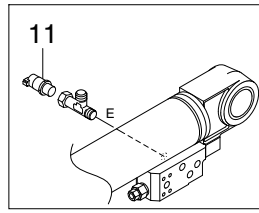
130A4EL01

- | | | |
|----------------------------|---------------------------------|---------------------------------|
| 1 Cigar lighter | 14 Emergency engine stop switch | 27 Air compressor switch |
| 2 Aircon and heater switch | 15 DC/DC converter | 28 Travel switch |
| 3 Remote controller | 16 Remote controller unit | 28 Swing fine switch |
| 4 Accel dial switch | 17 Handsfree control unit | 29 Swing lock switch |
| 5 Horn switch | 18 Emergency engine connector | 30 Machine control unit |
| 6 Breaker operation switch | 19 Fuse box assy | 32 Around view camera (rear) |
| 7 USB & socket assy | 20 Master switch | 33 Satellite antenna |
| 8 Cluster | 21 RS232 & J1939 service socket | 34 Relay - 5P |
| 9 Start switch | 22 Radio & USB player | 35 Intergrated or AM/FM antenna |
| 10 Service meter | 23 Heated seat switch | 36 Mobile antenna |
| 11 One touch decel switch | 24 Speaker | 37 Around view camera (front) |
| 12 Power max switch | 25 Quick clamp switch | 39 Power relay |
| 13 Safety lever | 26 Option attachment switch | 40 Warning buzzer |

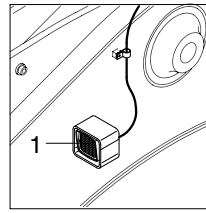
2. LOCATION 2



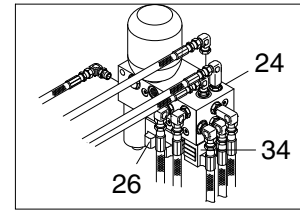
MAIN PUMP



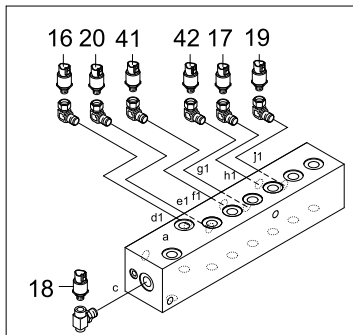
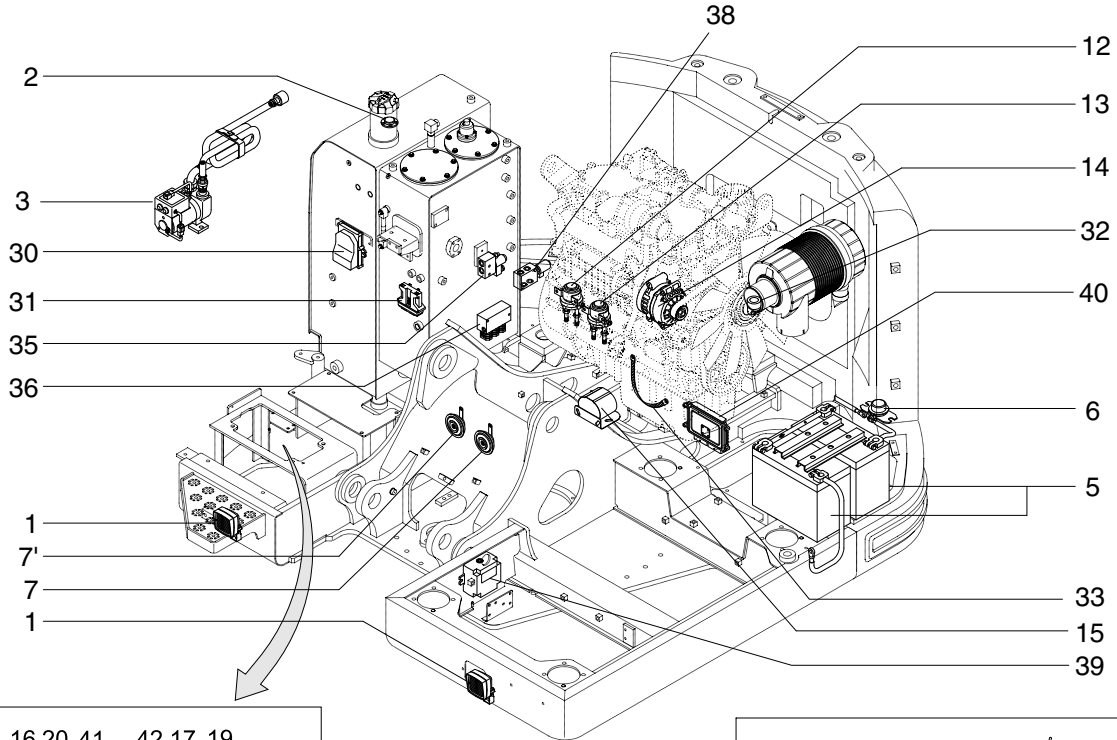
BOOM SAFETY VALVE



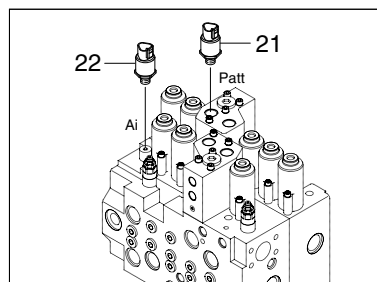
BOOM



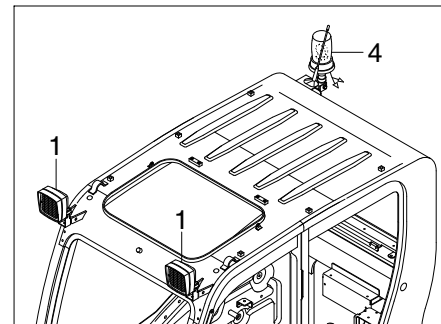
5-CARTRIDGE VALVE



SHUTTLE BLOCK



MAIN CONTROL VALVE



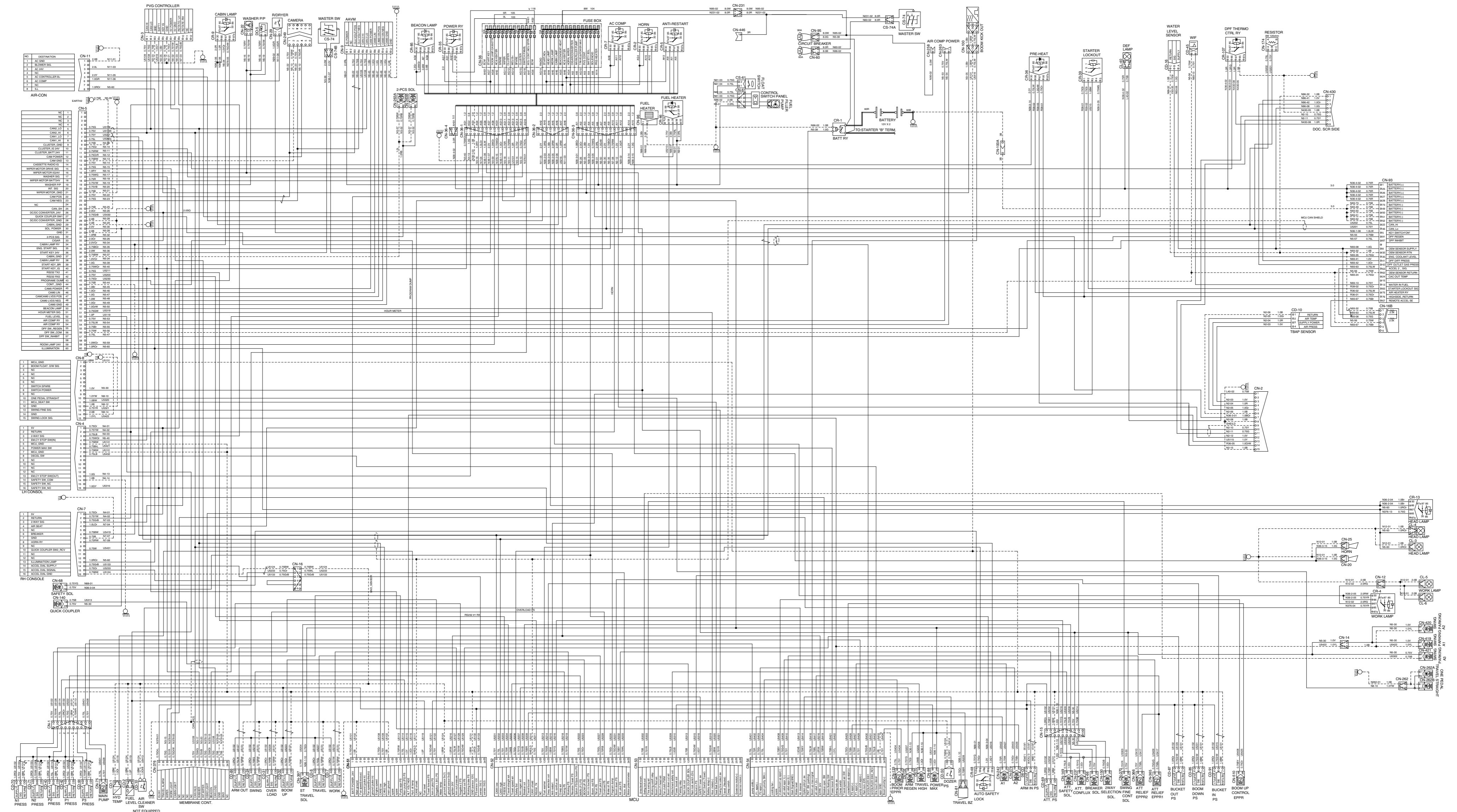
CAB

130A4EL02

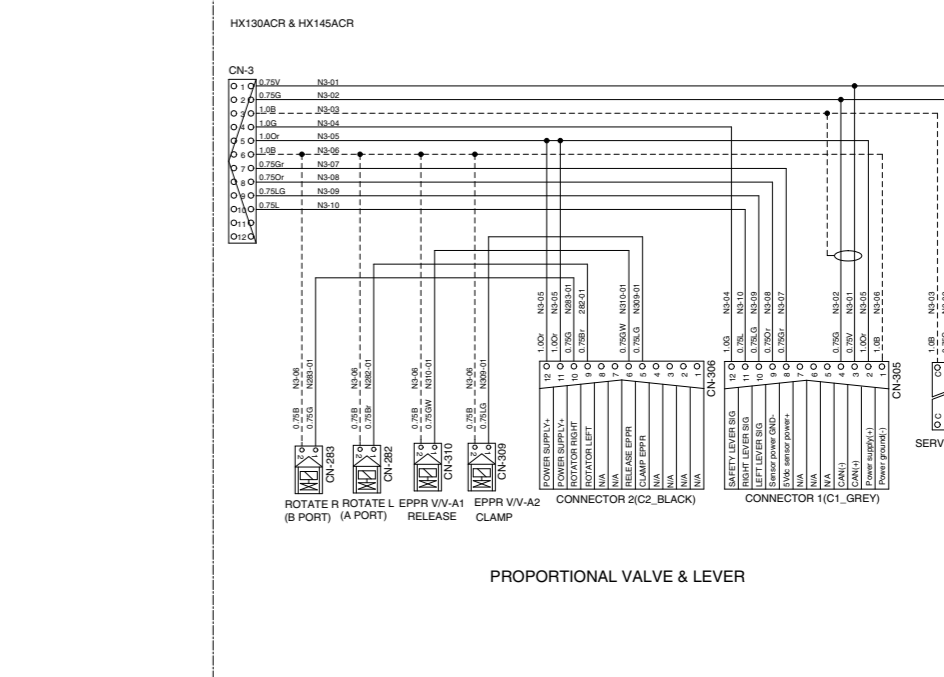
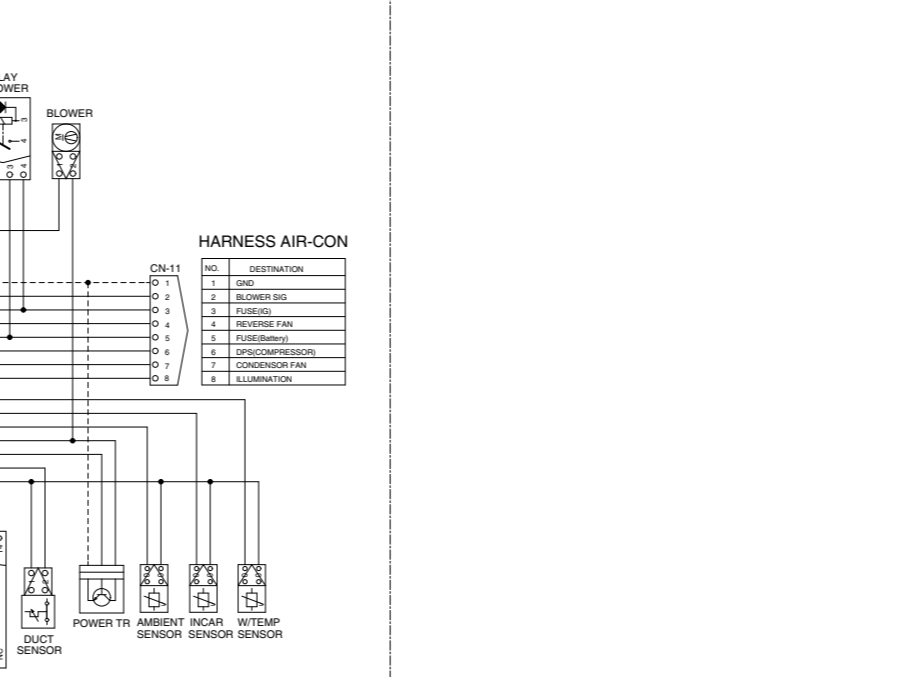
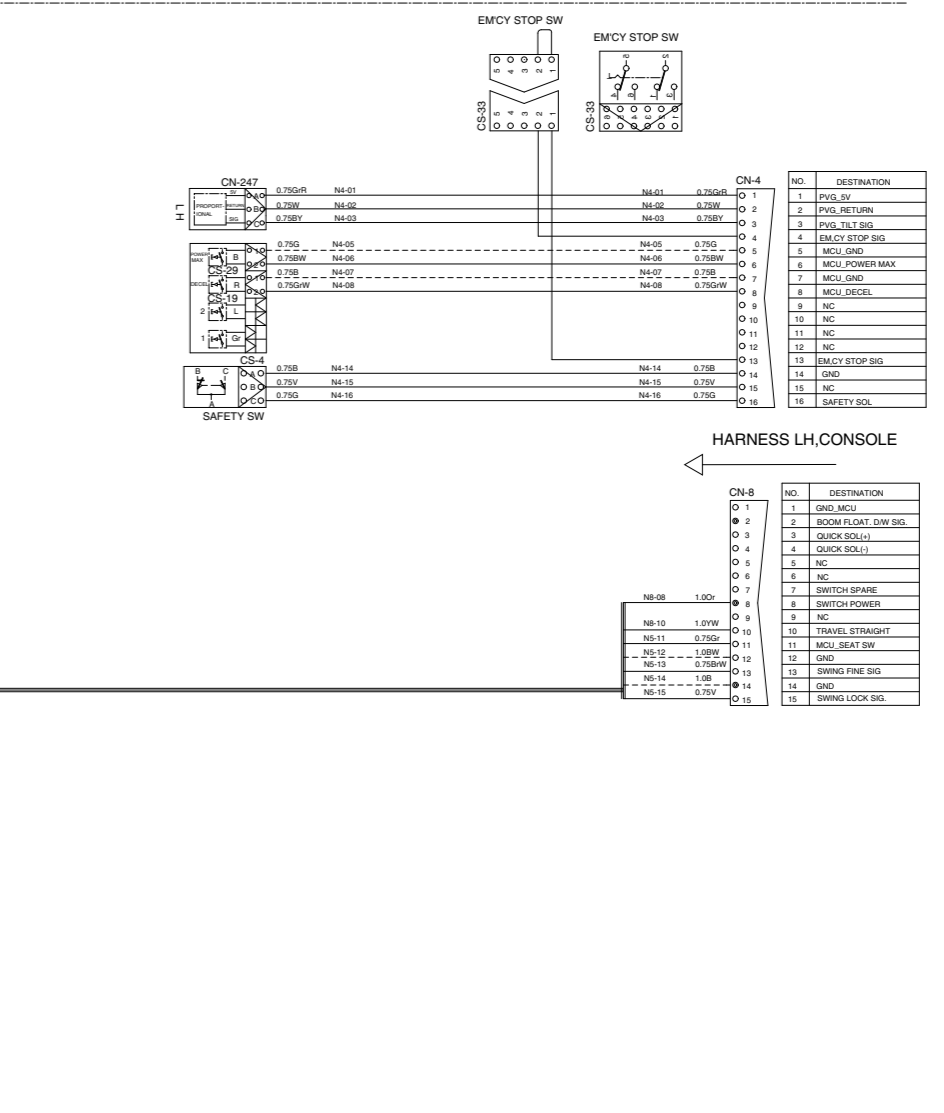
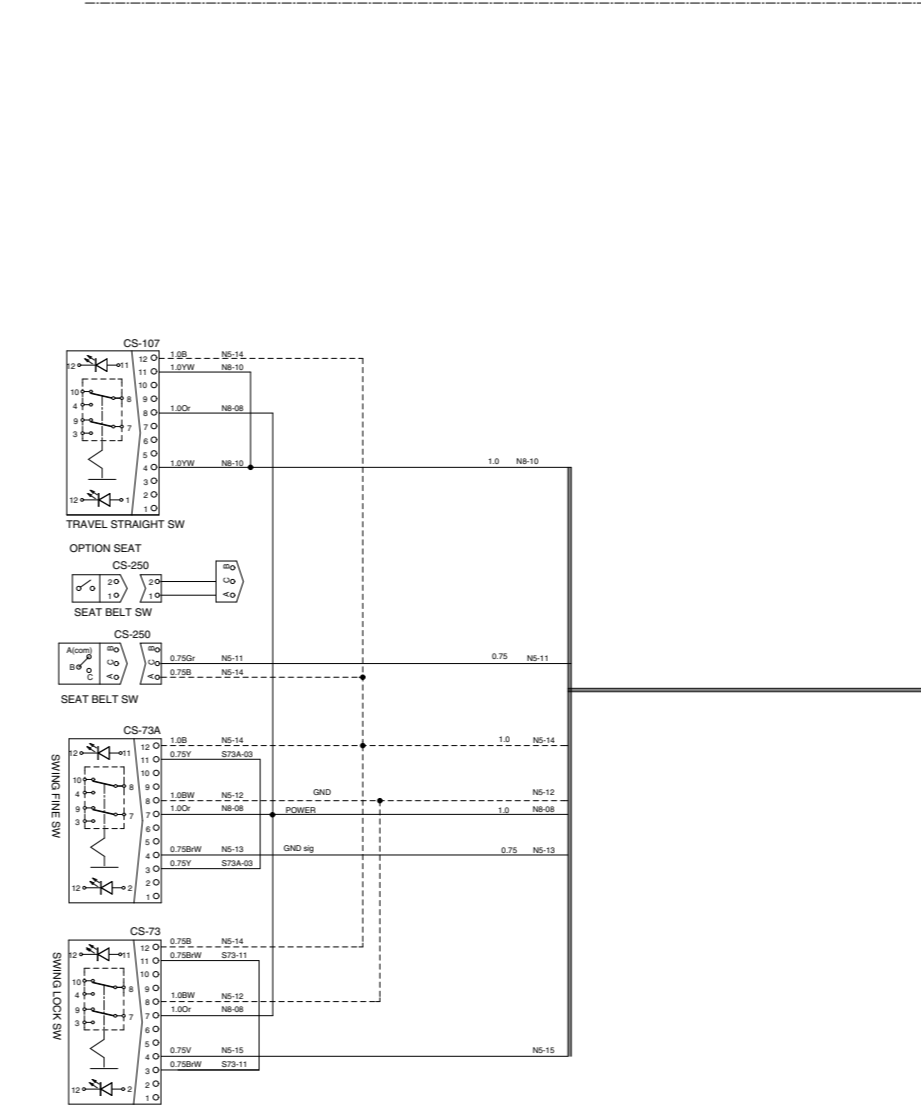
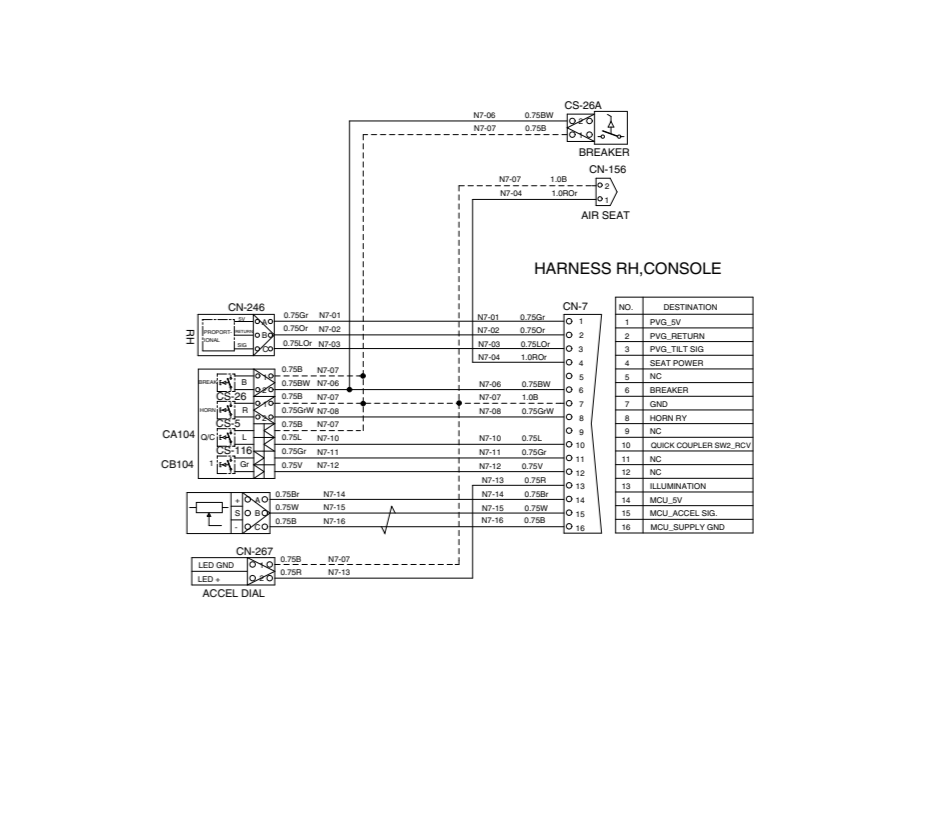
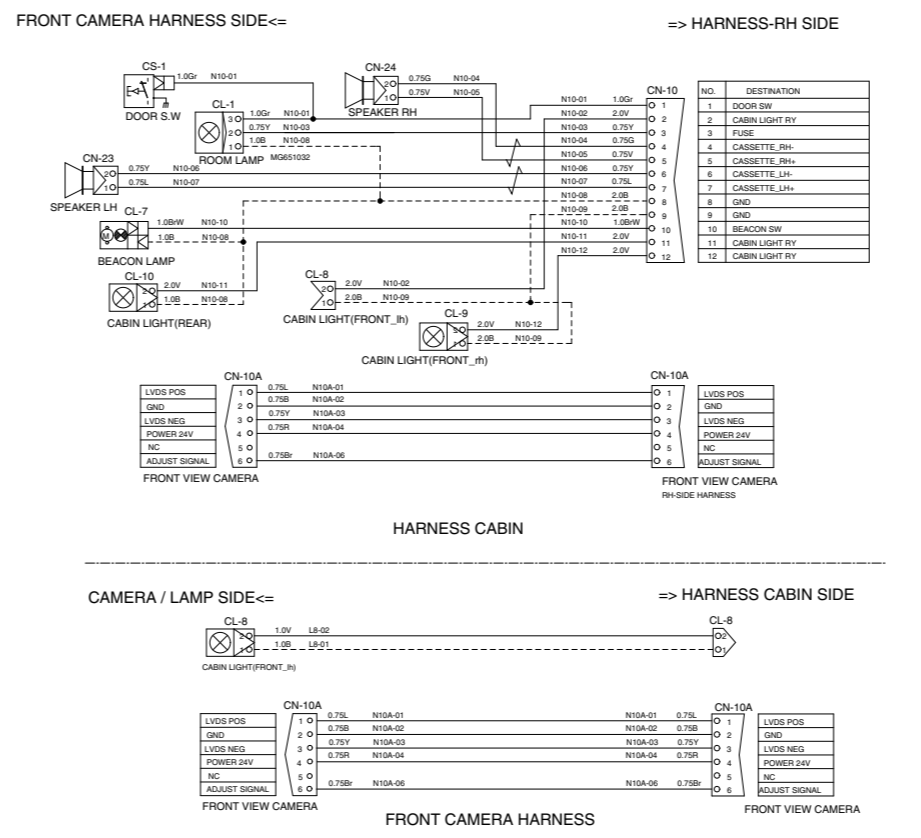
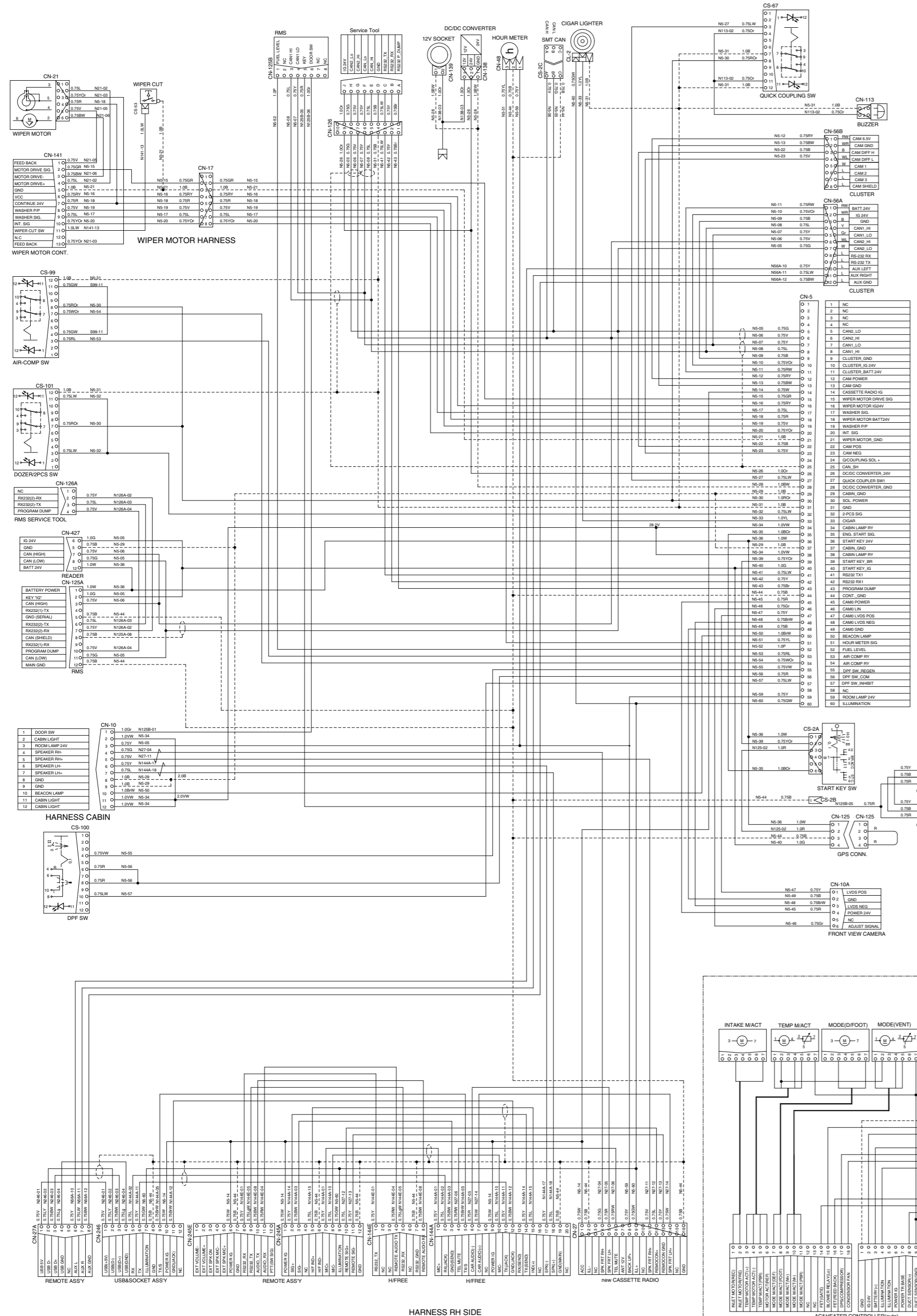
- | | | |
|-----------------------------|---------------------------------|----------------------------------|
| 1 Work lamp | 14 Alternator | 30 Relay drive unit |
| 2 Fuel sender | 15 Travel alarm buzzer | 31 PVG 32 controller |
| 3 Fuel filler pump | 16 Arm out pressure sensor | 32 Air cleaner indicator |
| 4 Beacon lamp | 17 Boom up pressure sensor | 33 Earth strap |
| 5 Battery | 18 Swing pressure sensor | 34 Safety solenoid valve |
| 6 Battery relay | 19 Boom down pressure sensor | 35 Swing fine solenoid valve |
| 7 Horn - high | 20 Arm in pressure sensor | 36 Swing lock solenoid valve |
| 7' Horn - low | 21 Attach pressure sensor | 38 Quick clamp solenoid valve |
| 8 P1 pressure sensor | 22 Travel pressure sensor | 39 Button key control unit |
| 9 P2 pressure sensor | 24 5 cartridge valve | 40 Around view camera controller |
| 10 EPPR pressure sensor | 25 Pump EPPR valve | 41 Bucket in pressure sensor |
| 11 Overload pressure sensor | 26 Boom priority EPPR valve | 42 Bucket out pressure sensor |
| 12 Start relay | 28 Nega-control pressure sensor | |
| 13 Heater relay | 29 Flow control EPPR valve | |

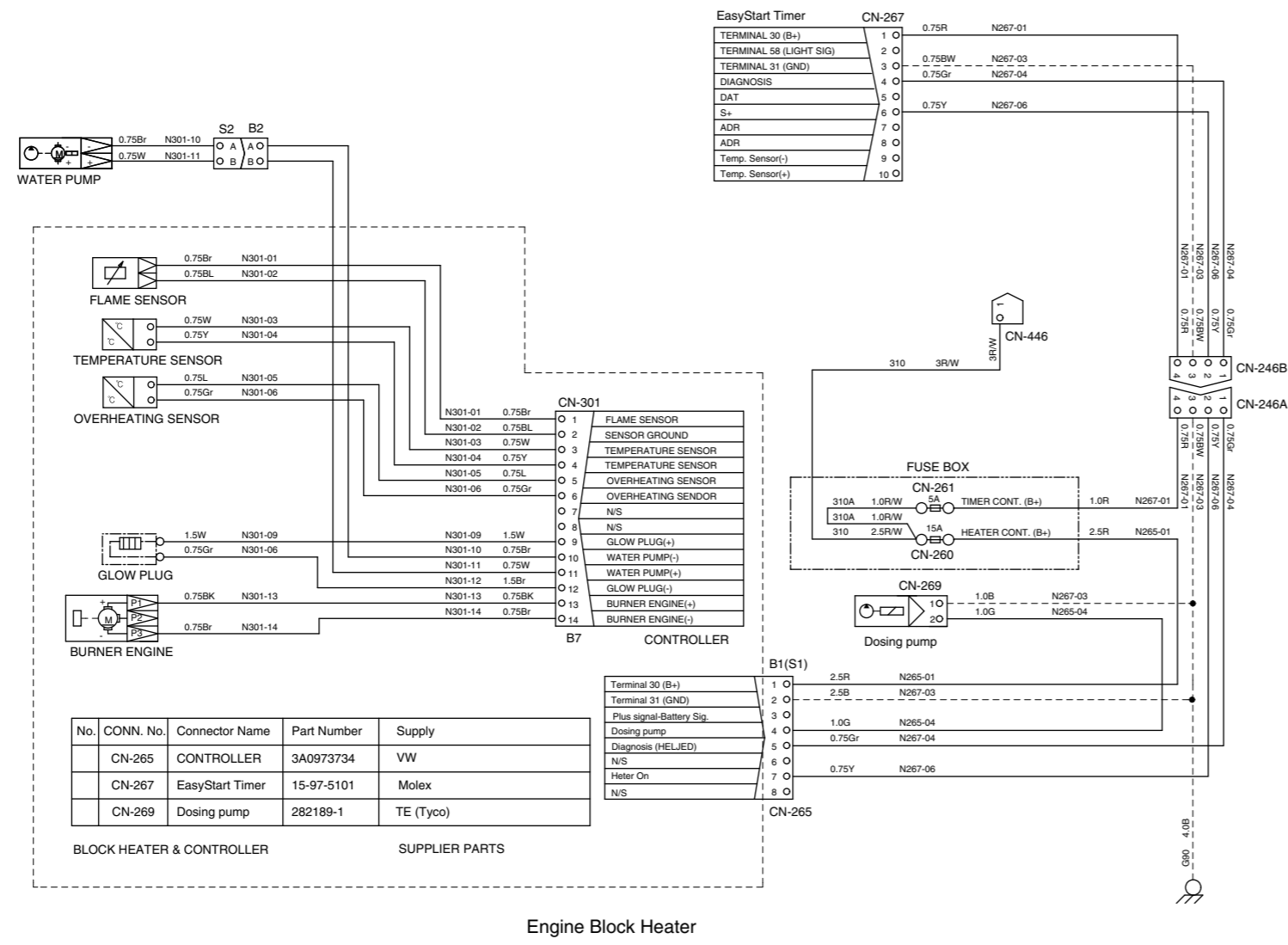
GROUP 2 ELECTRICAL CIRCUIT

ELECTRICAL CIRCUIT (1/3)

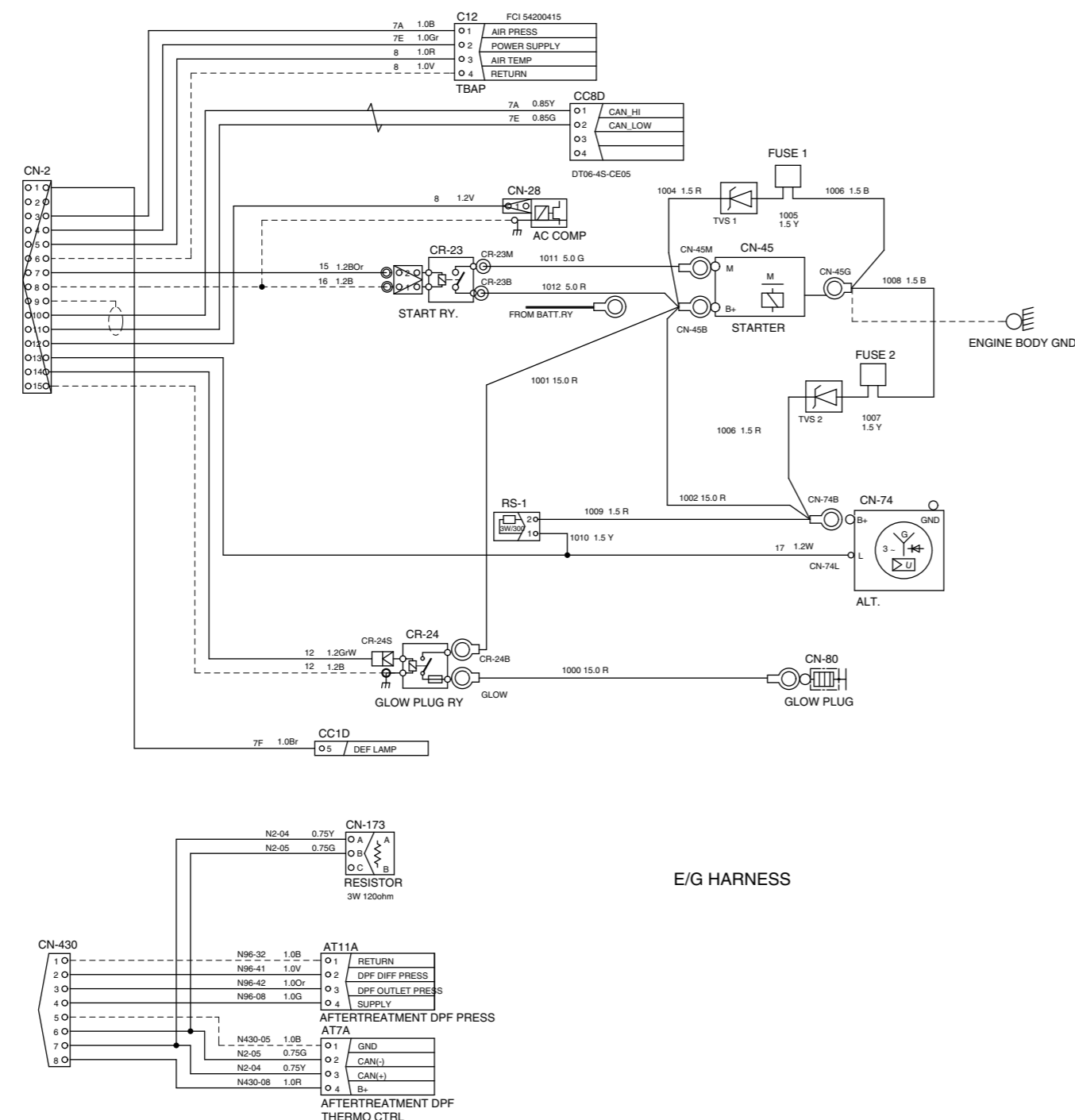


ELECTRICAL CIRCUIT (2/3)

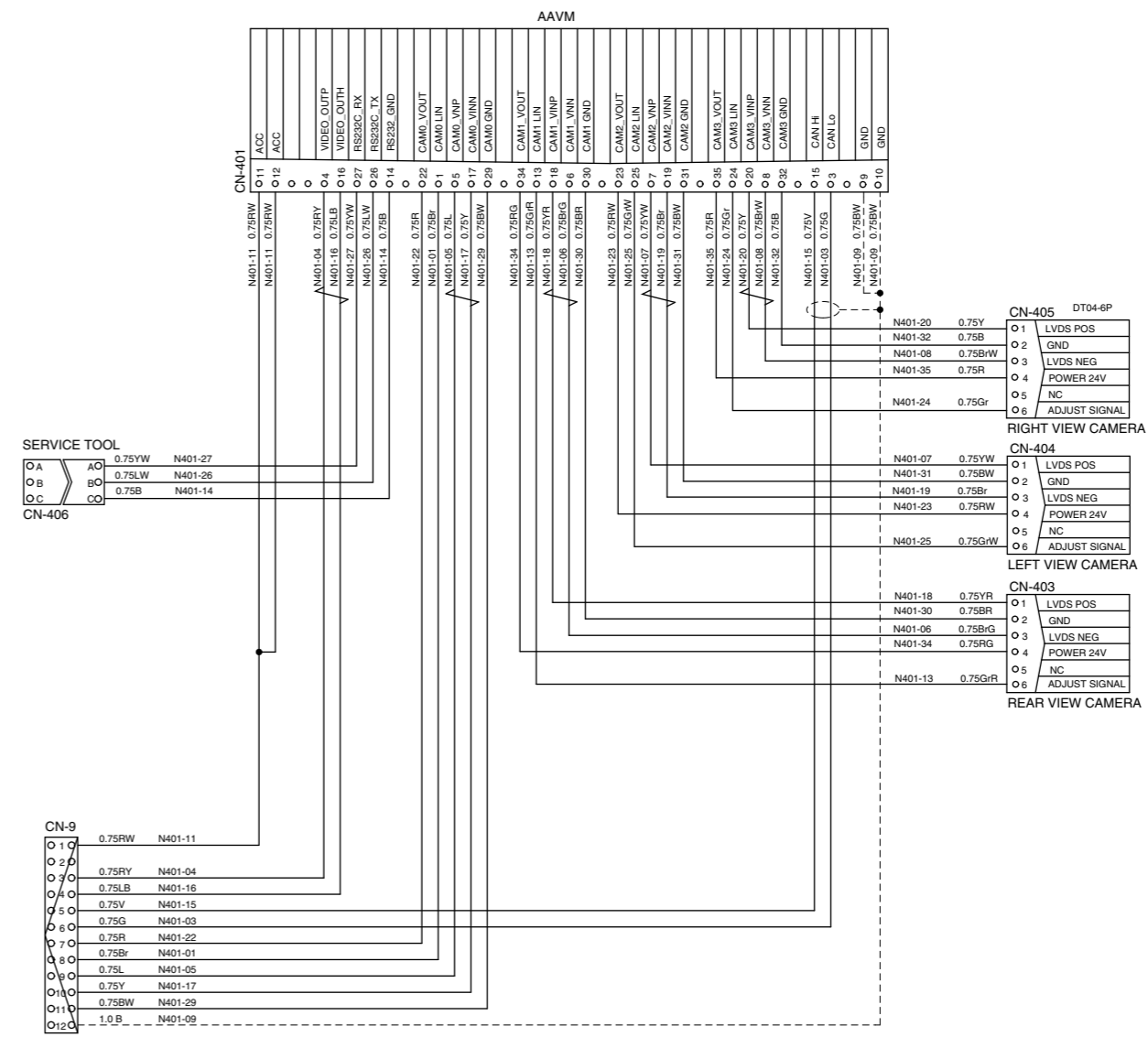




Engine Block Heater



E/G HARNESS



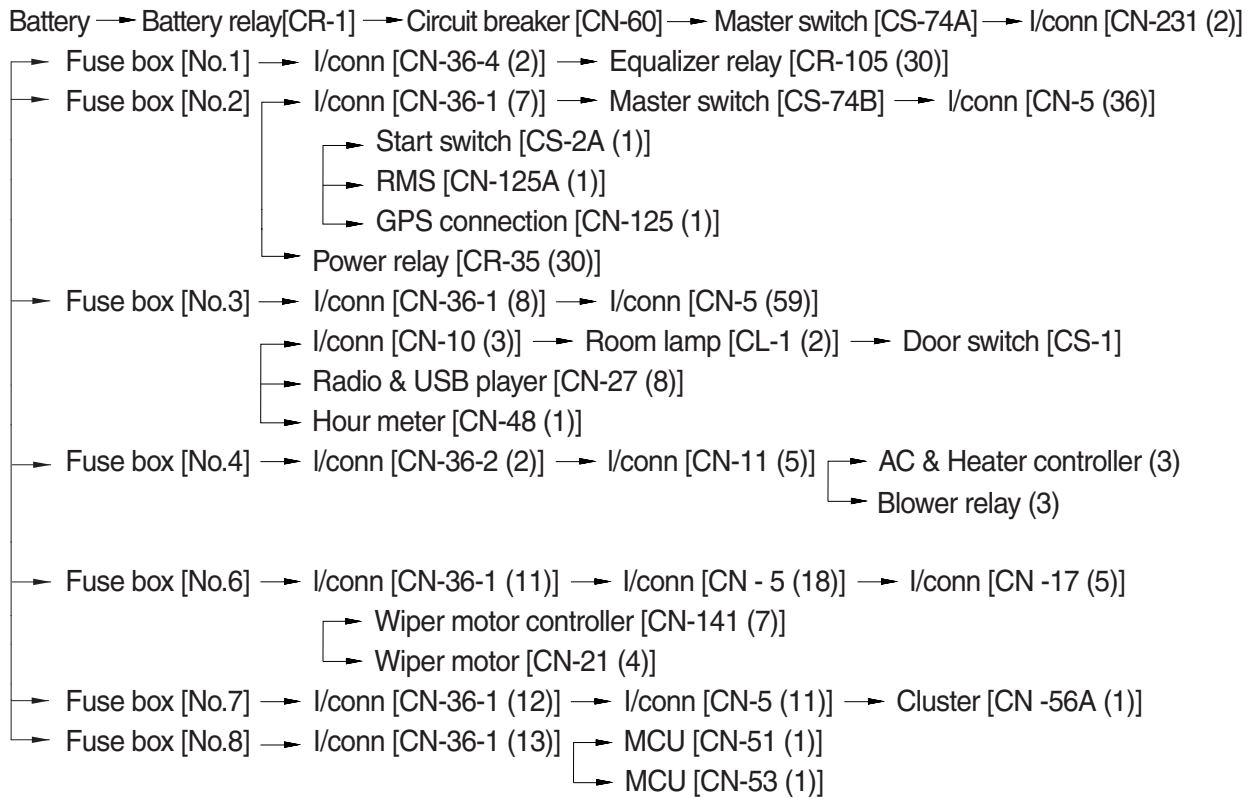
MEMORANDUM

1. POWER CIRCUIT

The negative terminal of battery is grounded to the machine chassis.

When the start switch is in the OFF position, the current flows from the positive battery terminal as shown below.

1) OPERATING FLOW



※ I/conn : Intermediate connector

2) CHECK POINT

Engine	Start switch	Check point	Voltage
STOP	OFF	① - GND (battery 1EA)	10~12.5V
		② - GND (battery 2EA)	20~25V
		③ - GND (battery relay)	20~25V
		④ - GND (circuit breaker)	20~25V

※ GND : Ground

2. STARTING CIRCUIT

1) OPERATING FLOW

Battery (+) terminal → Battery relay [CR-1] → Circuit breaker [CN-60] → Master switch [CS-74A]
 → I/conn [CN-231 (2)] → Fuse box [No.2] → I/conn [CN-36-1 (7)] → Master switch [CS-74B]
 → I/conn [CN-5 (36)] → Start switch [CS-2A (1)]

(1) When start key switch is in ON position

Start switch ON [CS-2A (2)] → I/conn [CN-5 (39)]
 → Battery relay [CR-1] → Battery relay operating (all power is supplied with the electric component)
 Start switch ON [CS-2A (3)] → GPS conn [CN-125 (2)→(4)]
 I/conn [CN-5 (40)] → I/conn [CN-36-1 (1)] → Power relay [CR-35 (86)→(87)]
 → Fuse box [No.9~12]
 I/conn [CN-4 (4)] → Emergency engine stop sw [CS-33 (2)→(1)]
 → I/conn [CN-4 (13)] → I/conn [CN-36-1 (2)] → Fuse box [No. 13]
 → I/conn [CN-36-1 (6)] → ECM IG [CR-45 (86)]
 Reader [CN-427 (1)]
 RMS [CN-125A (2)]

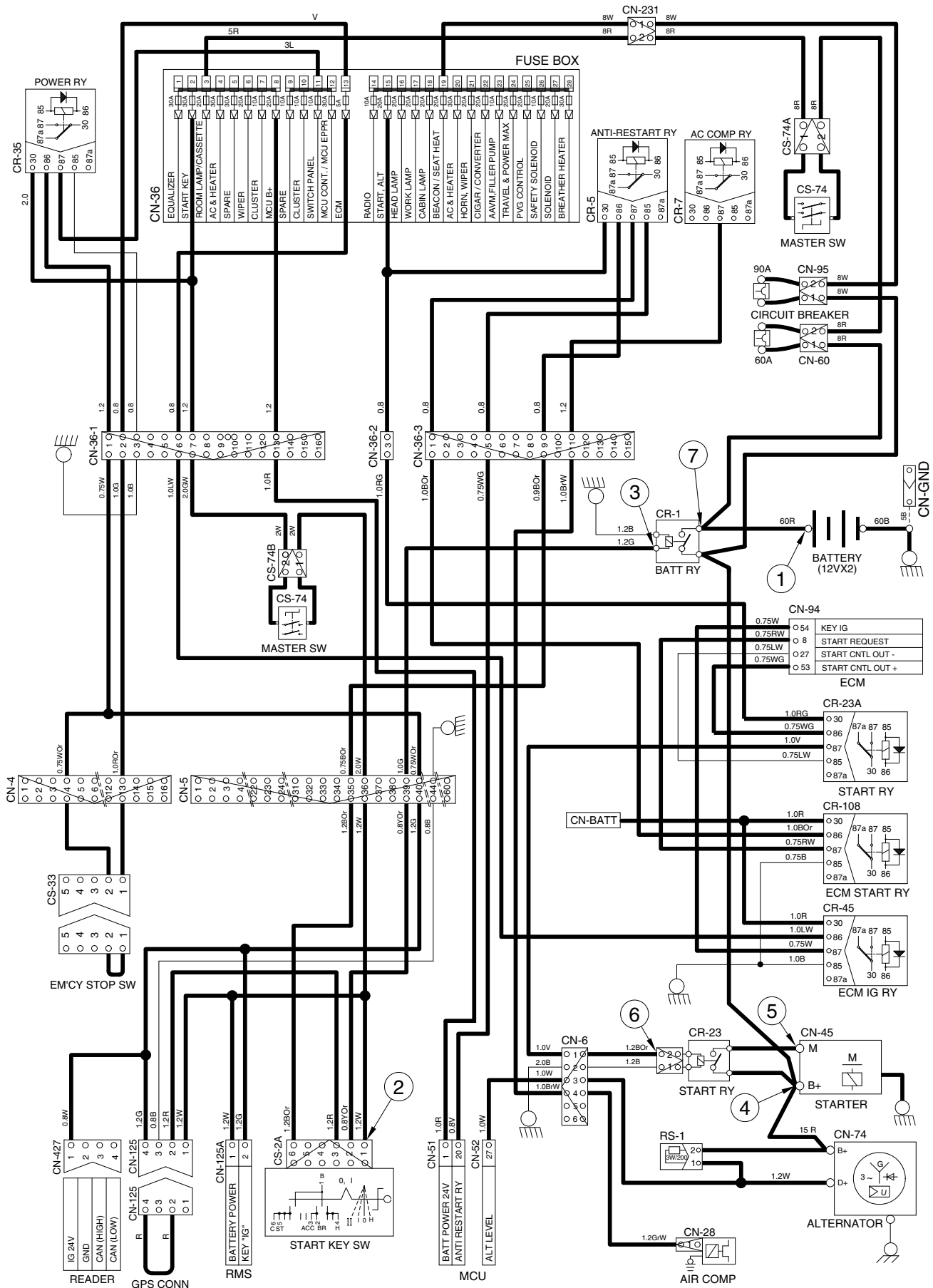
(2) When start key switch is in START position

Start switch START [CS-2A (6)] → I/conn [CN-5 (35)] → I/conn [CN-36-3 (9)]
 → Anti-restart relay [CR-5 (86)→(87)] → I/conn [CN-36-3 (1)] → ECM start relay [CR-106 (86)→(87)]
 → ECM [CN-94 (8)→(53)] → Start relay [CR-23A (86)→(87)] → I/conn [CN-6 (1)]
 → Start relay [CR-23 (2)] → Starter motor operating

2) CHECK POINT

Engine	Start switch	Check point	Voltage
RUN	ON	① - GND (battery) ② - GND (start switch) ③ - GND (battery relay B ⁺) ④ - GND (starter B ⁺) ⑤ - GND (starter M) ⑥ - GND (start relay) ⑦ - GND (battery relay)	20~25V

STARTING CIRCUIT



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3. CHARGING CIRCUIT

When the starter is activated and the engine is started, the operator releases the starting switch to the ON position.

Charging current generated by operating the alternator flows into the battery through the battery relay [CR-1].

The current also flows from the alternator to each electrical component and controller through the fuse box.

1) OPERATING FLOW

(1) Warning flow

Alternator [CN-74 (D⁺)] → I/conn [CN-6 (3)] → MCU alternator level [CN-52 (27)]

→ Cluster charging warning lamp (via CAN interface)

(2) Charging flow

Alternator "B⁺" terminal → Starter motor [CN-45 (B⁺)]

→ Battery relay

→ Battery (+) terminal

→ Circuit breaker [CN-60] → Master switch [CS-74A] → I/conn [CN-231 (2)]

→ Fuse box [No. 1~8]

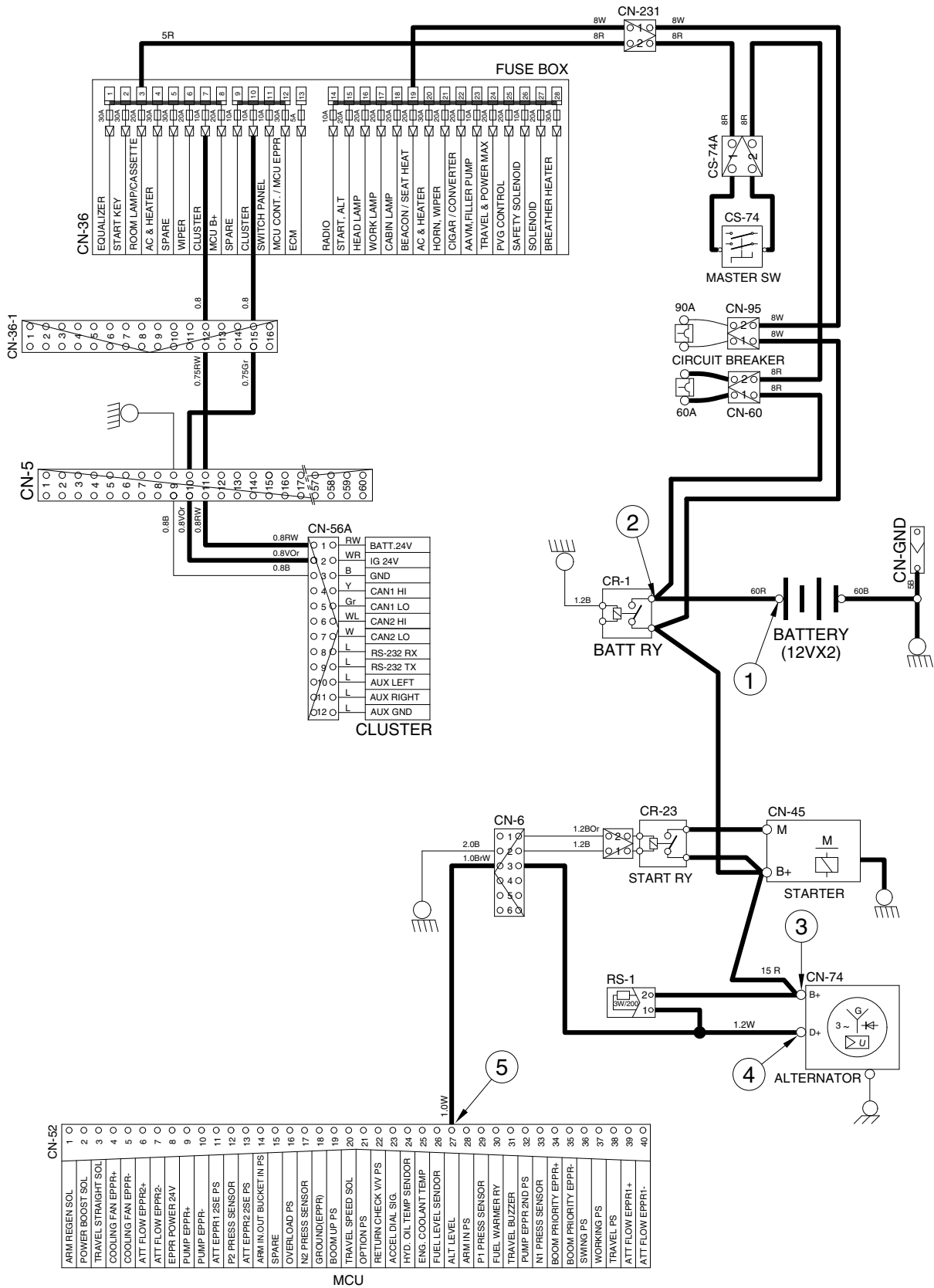
→ Circuit breaker [CN-95] → I/conn [CN-231 (1)] → Fuse box [No. 14~28]

2) CHECK POINT

Engine	Start switch	Check point	Voltage
RUN	ON	① - GND (battery voltage) ② - GND (battery relay) ③ - GND (alternator B ⁺ terminal) ④ - GND (alternator D ⁺ terminal) ⑤ - GND (MCU)	20~25V

※ GND : Ground

CHARGING CIRCUIT



4. HEAD AND WORK LIGHT CIRCUIT

1) OPERATING FLOW

Fuse box (No.16) → I/conn [CN-36-2 (4)] → Head light relay [CR-13 (30, 86)]

Fuse box (No.17) → I/conn [CN-36-2 (5)] → Work light relay [CR-4 (30, 86)]

Fuse box (No.11) → I/conn [CN-36-1 (16)] → Membrane controller [CN-376 (1)]

(1) Head light switch ON

Head light switch ON [CN-376 (13)] → Head light relay [CR-13 (85) → (87)]

→ Head light ON [CL-3 (2), CL-4 (2)]

→ I/conn [CN-7 (13)] → Accel dial LED ON [CN-267 (2)]

→ I/conn [CN-5 (60)] → Radio & USB player illumination ON [CN-27 (9)]
 → Remote controller illumination ON [CN-245A (9)]
 → USB & socket illumination ON [CN-246 (7)]
 → Cigar lighter [CL-2]

→ I/conn [CN-11 (8)] → AC & heater controller illumination ON (4)

(2) Work light switch ON

Work light switch ON [CN-376 (4)] → Work light relay [CR-4 (85) → (87)]

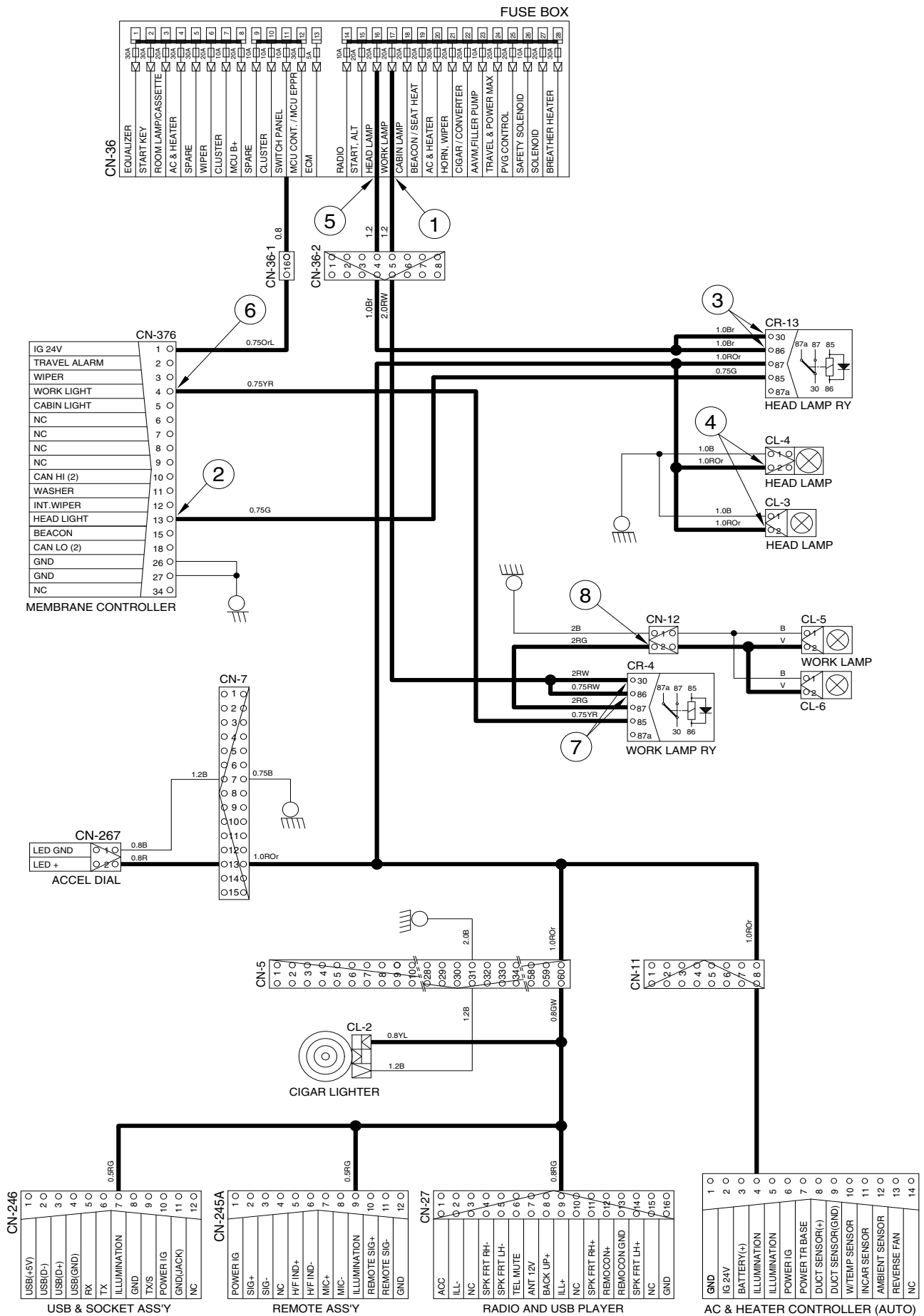
→ I/conn [CN-12 (2)] → Work light ON [CL-5 (2), CL-6 (2)]

2) CHECK POINT

Engine	Start switch	Check point	Voltage
STOP	ON	① - GND (fuse box) ② - GND (head light switch power output) ③ - GND (head light relay) ④ - GND (head light) ⑤ - GND (fuse box) ⑥ - GND (work light switch power output) ⑦ - GND (work light relay) ⑧ - GND (work light)	20~25V

※ GND : Ground

HEAD AND WORK LIGHT CIRCUIT



5. BEACON LAMP AND CAB LIGHT CIRCUIT

1) OPERATING FLOW

Fuse box (No.19) → Beacon lamp relay [CR-85 (30, 86)]

Fuse box (No.18) → I/conn [CN-36-2 (6)] → Cab light relay [CR-9 (30, 86)]

Fuse box (No.11) → I/conn [CN-36-1 (16)] → Membrane controller [CN-376 (1)]

(1) Beacon lamp switch ON

Beacon lamp switch ON [CN-376 (15)] → I/conn [CN-36-1 (9)]

→ Beacon lamp relay [CR-85 (85)→ (87)]→ I/conn [CN-36-3 (7)]

→ I/conn [CN-5 (50)] → I/conn [CN-10 (10)] → Beacon lamp ON [CL-7]

(2) Cab light switch ON

Cab light switch ON [CN-376 (5)] → Cab lamp relay [CR-9 (85) → (87)]

→ I/conn [CN-5 (34, 38)] → I/conn [CN-10 (2)] → Cab light (FR / LH) ON [CL-8 (2)]

→ I/conn [CN-10 (12)] → Cab light (FR / RH) ON [CL-9 (2)]

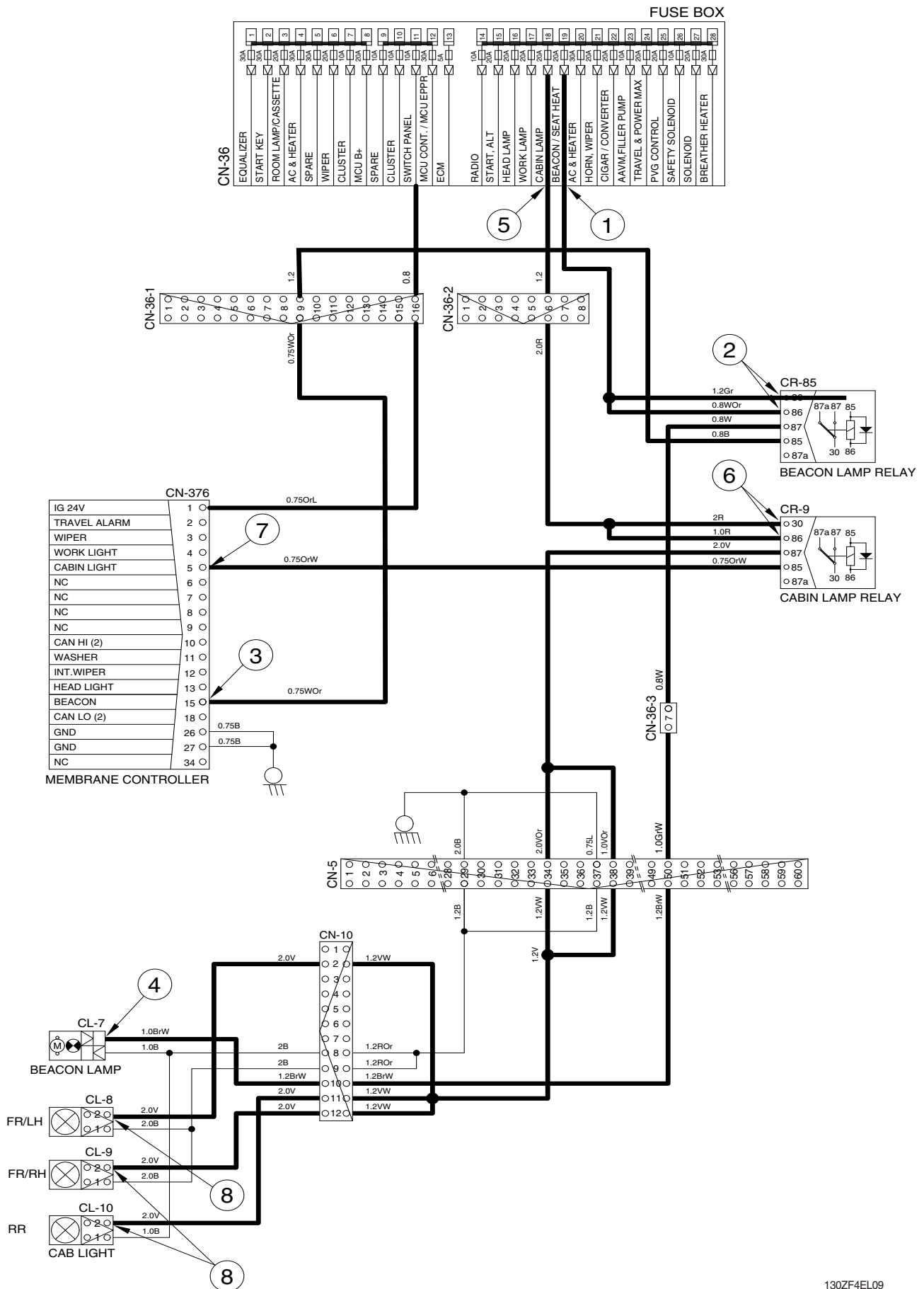
→ I/conn [CN-10 (11)] → Cab light (RR) ON [CL-10 (2)]

2) CHECK POINT

Engine	Start switch	Check point	Voltage
STOP	ON	① - GND (fuse box) ② - GND (beacon lamp relay) ③ - GND (beacon lamp switch power output) ④ - GND (beacon lamp) ⑤ - GND (fuse box) ⑥ - GND (cab light relay) ⑦ - GND (cab light switch power output) ⑧ - GND (cab light)	20~25V

※ GND : Ground

BEACON LAMP AND CAB LIGHT CIRCUIT

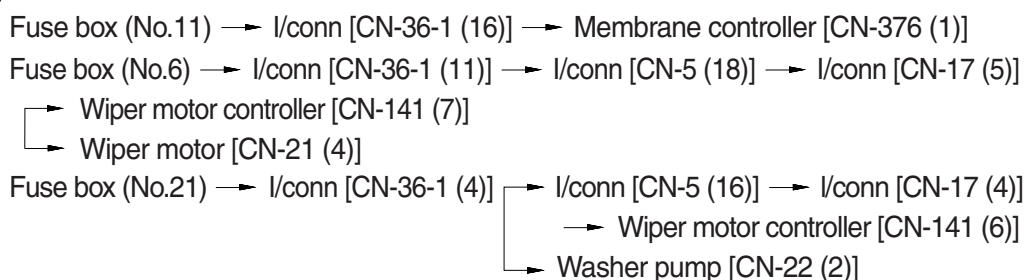


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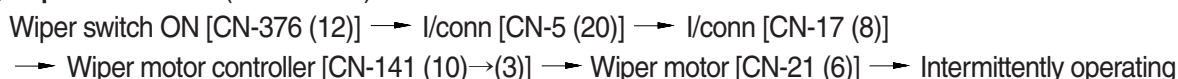
6. WIPER AND WASHER CIRCUIT

1) OPERATING FLOW

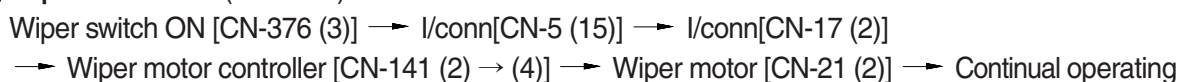
(1) Start switch ON



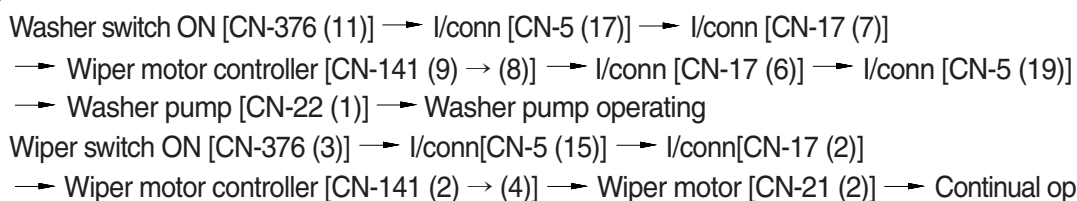
(2) Wiper switch ON (Intermittent)



(3) Wiper switch ON (continual)



(4) Washer switch ON



(5) Auto parking (when switch OFF)



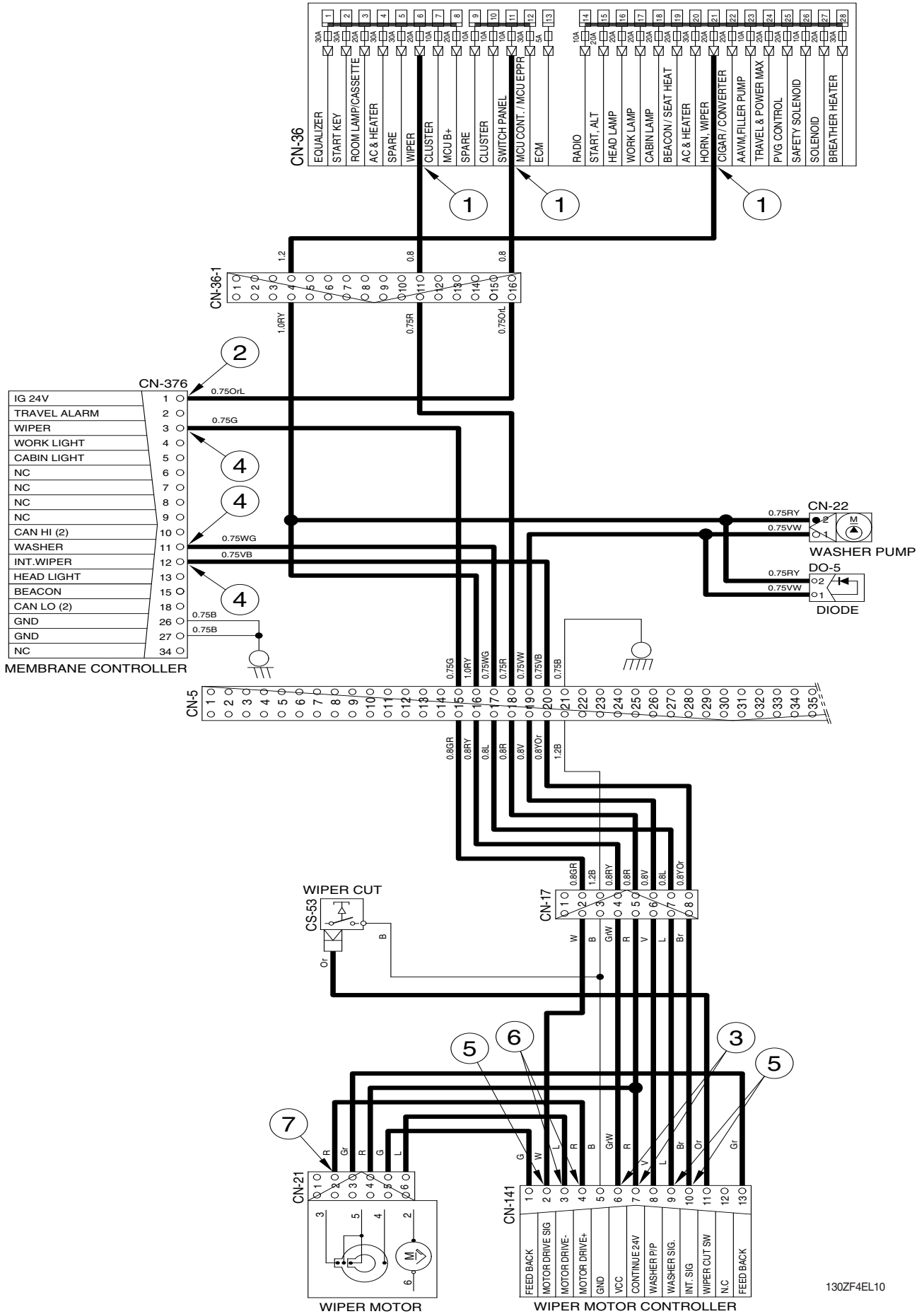
3) CHECK POINT

Engine	Start switch	Check point	Voltage	
STOP	ON	① - GND (fuse box)	20~25V	
		② - GND (switch power input)		
		③ - GND (wiper power input)		
		④ - GND (switch power output)	0 ~ 5V	
		⑤ - GND (wiper power input)		
		⑥ - GND (wiper power output)		24V
		⑦ - GND (wiper motor)		0 or 24V

※ GND : Ground

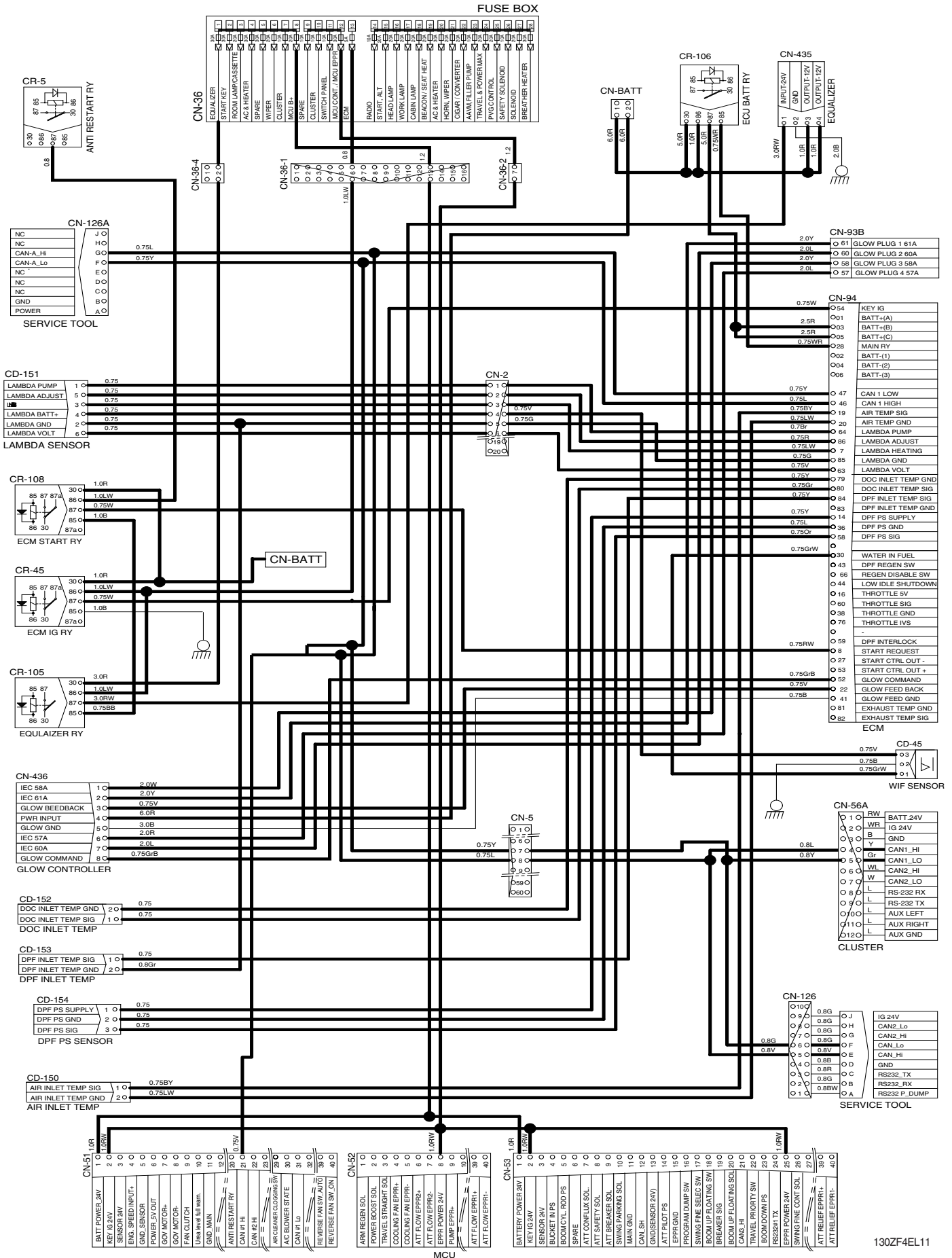
WIPER AND WASHER CIRCUIT

FUSE BOX

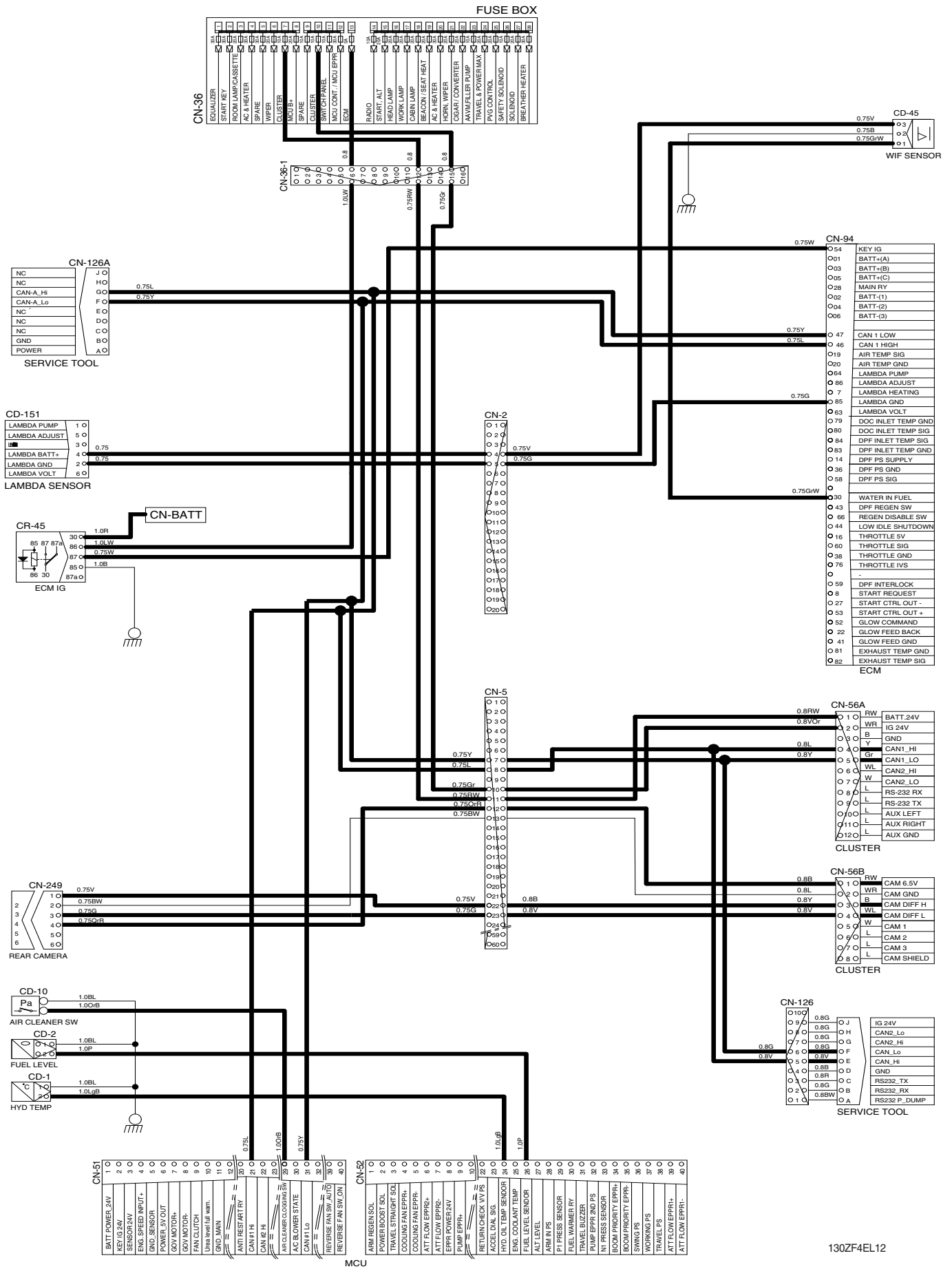


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CONTROLLER CIRCUIT

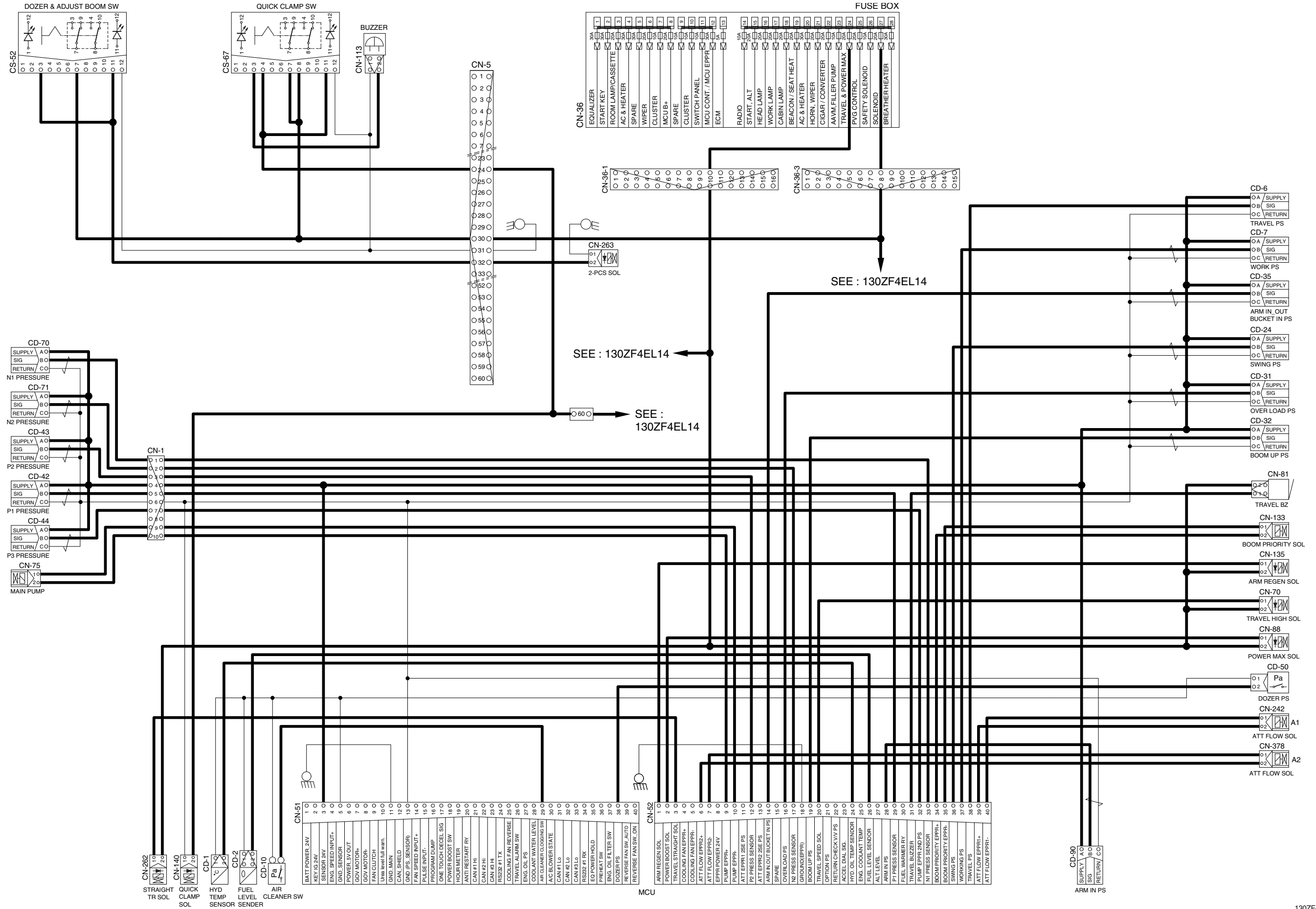


MONITORING CIRCUIT

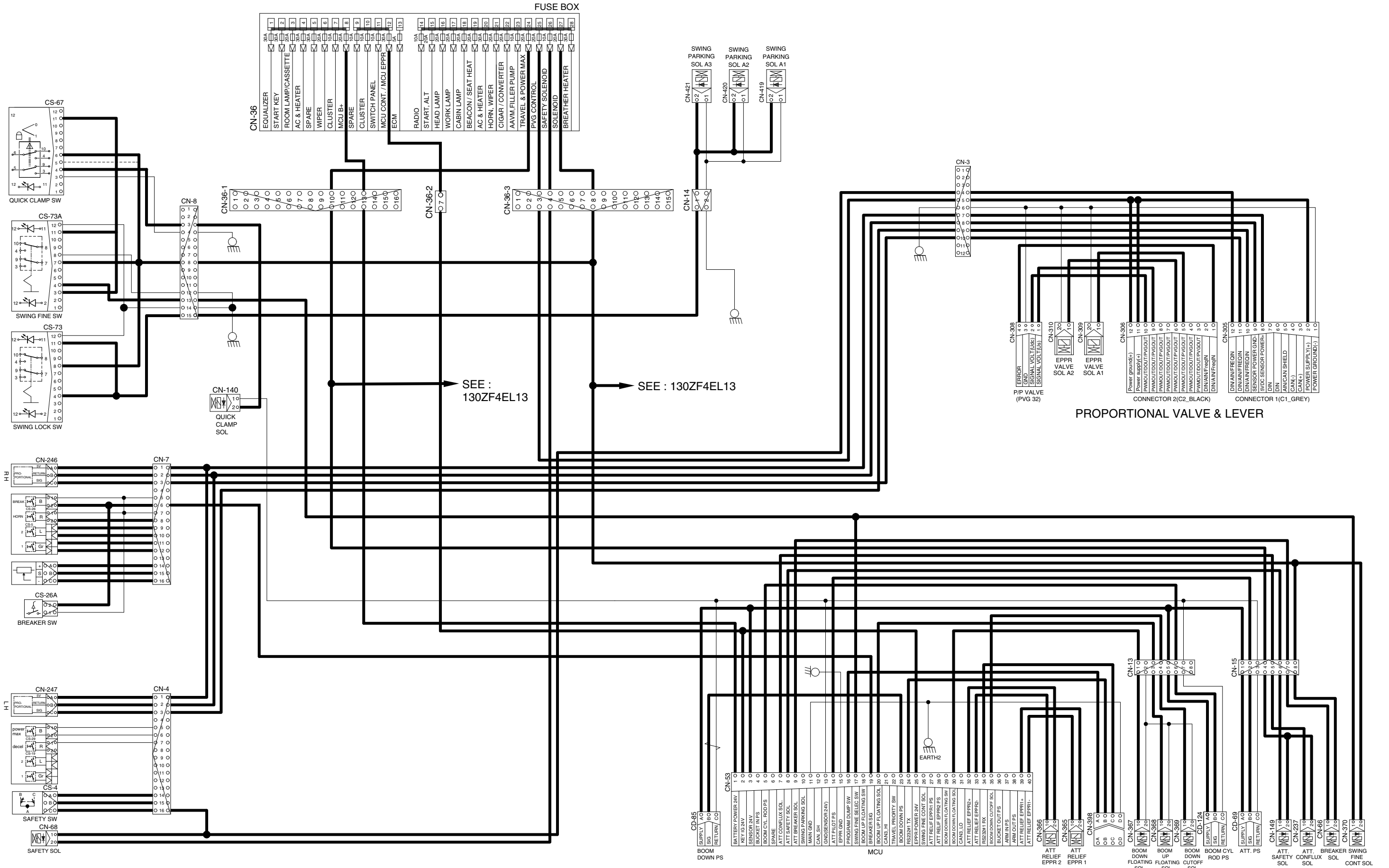


130ZF4EL12

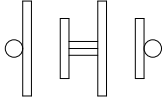
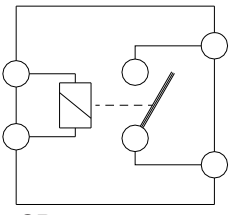
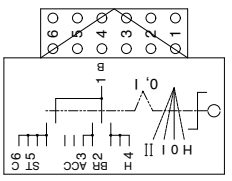
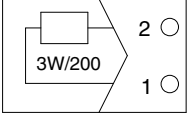
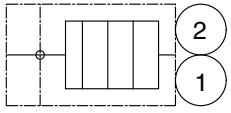
ELECTRIC CIRCUIT FOR HYDRAULIC (1/2)

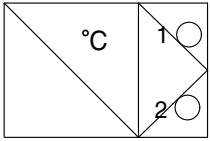
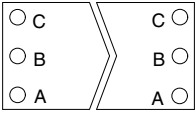
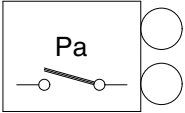
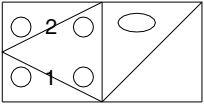
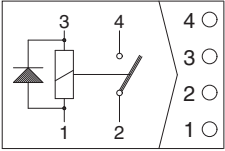
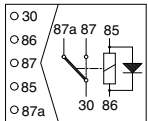


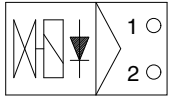
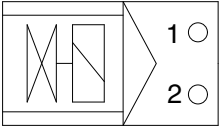
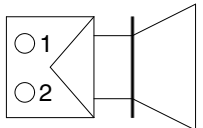
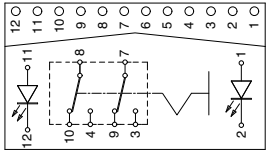
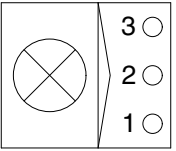
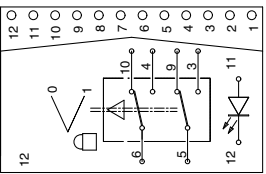
ELECTRIC CIRCUIT FOR HYDRAULIC (2/2)

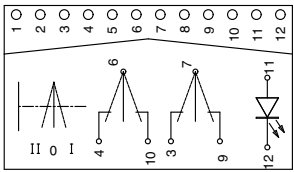
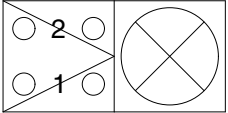
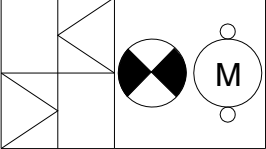
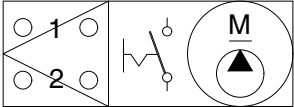
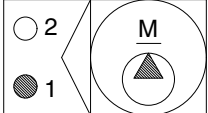
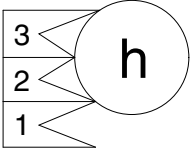


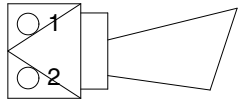
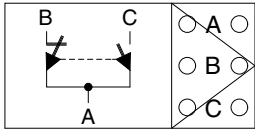
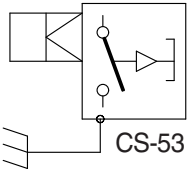
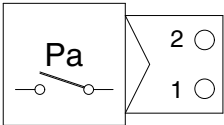
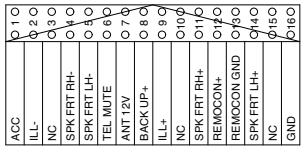
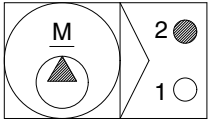
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

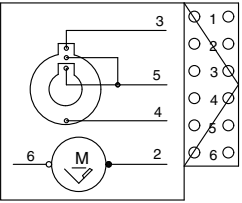
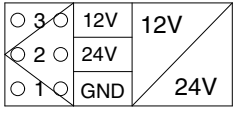
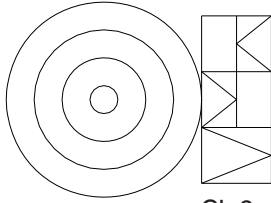
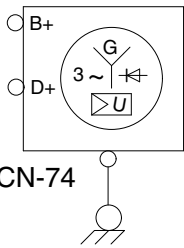
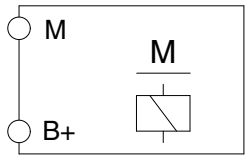
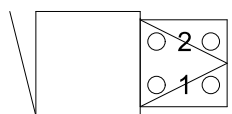
Part name	Symbol	Specifications	Check						
Battery		12V × 100Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging						
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A (continuity) 1000A (30 seconds)	※ Check coil resistance(M4 to M4) Normal : About 50Ω ※ Check contact Normal : ∞Ω						
Start key	 <p style="text-align: center;">CS-2A</p>	B-BR : 24V 1A B-ACC : 24V 10A B-C : 24V 40A	※ Check contact OFF : ∞Ω (for each terminal) ON : 0Ω (for terminal 1-3 and 1-2) START : 0Ω (for terminal 1-6)						
Pressure sensor	<table border="1" style="margin: auto;"> <tr><td>○ A</td><td>SUPPLY</td></tr> <tr><td>○ B</td><td>SIG</td></tr> <tr><td>○ C</td><td>RETURN</td></tr> </table> CD-6 CD-7 CD-24 CD-31 CD-32 CD-35 CD-42 CD-43 CD-44 CD-69 CD-70 CD-71 CD-85 CD-86 CD-87 CD-90 CD-91 CD-124	○ A	SUPPLY	○ B	SIG	○ C	RETURN	8~30V	※ Check contact Normal : 0.1Ω
○ A	SUPPLY								
○ B	SIG								
○ C	RETURN								
Resistor	 <p style="text-align: center;">RS-1</p>	3W 200Ω	※ Check resistance 1-2 : 200Ω						
Breather heater	 <p style="text-align: center;">CN-80</p>	24V	-						

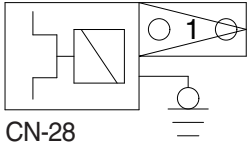
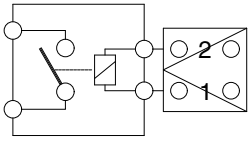
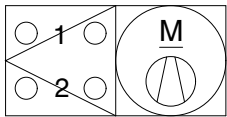
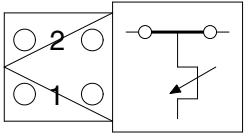
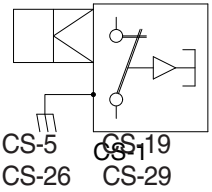
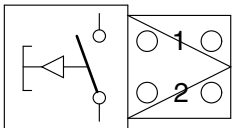
Part name	Symbol	Specifications	Check
Temperature sensor (hydraulic)	 CN-1	-	※ Check resistance 50°C : 804Ω 80°C : 310Ω 100°C : 180Ω
SMT CAN	 CS-2C	-	-
Air cleaner pressure switch	 CD-10	N.O TYPE	※ Check contact High level : ∞Ω Low level : 0Ω
Fuel level sender	 CD-2	-	※ Check resistance Full : 50Ω 6/12 : 350Ω 11/12 : 100Ω 5/12 : 400Ω 10/12 : 150Ω 4/12 : 450Ω 9/12 : 200Ω 3/12 : 500Ω 8/12 : 250Ω 2/12 : 550Ω 7/12 : 300Ω 1/12 : 600Ω Empty warning : 700Ω
Relay (air con blower)	 CR-46	24V 16A	※ Check resistance Normal : About 200Ω (for terminal 1-3) ∞Ω (for terminal 2-4)
Relay	 CR-2 CR-4 CR-5 CR-7 CR-9 CR-13 CR-23A CR-35 CR-36 CR-45 CR-85 CR-95 CR-101 CR-105 CR-106 CR-107 CR-108	24V 16A	※ Check resistance Normal : About 160 Ω (for terminal 85-86) 0 Ω (for terminal 30-87a) ∞ Ω (for terminal 30-87)

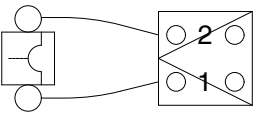
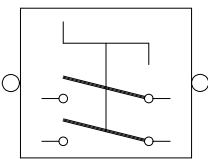
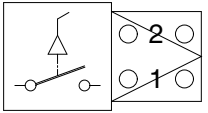
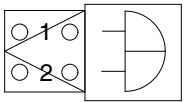
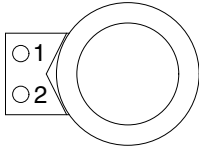
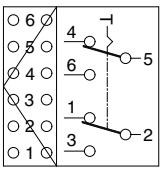
Part name	Symbol	Specifications	Check
Solenoid valve	 CN-66 CN-68 CN-70 CN-88 CN-135 CN-140 CN-149 CN-237 CN-262 CN-263 CN-367 CN-368 CN-369 CN-370 CN-419 CN-420 CN-421	24V 1A	※ Check resistance Normal : 15~25Ω (for terminal 1-2)
EPPR valve	 CN-75 CN-133 CN-242 CN-309 CN-310 CN-365 CN-366 CN-378	700mA	※ Check resistance Normal : 15~25Ω (for terminal 1-2)
Speaker	 CN-23(LH) CN-24(RH)	20W 86±2dB	※ Check resistance Normal : A fewΩ
Switch (locking type)	 CS-52 CS-67 CS-73 CS-73A CS-99	24V 1.5A	※ Check contact Normal ON : 0 Ω (for terminal 7-3) ∞ Ω (for terminal 7-9) OFF : ∞ Ω (for terminal 7-3) 0 Ω (for terminal 7-9)
Room lamp	 CL-1	24V 10W	※ Check disconnection Normal : 1.0Ω ON : 0Ω (For terminal 1-2) ∞Ω (For terminal 1-3) OFF : ∞Ω (For terminal 1-2) 0Ω (For terminal 1-3)
Switch (quick clamp)	 CS-67	24V	※ Check contact Normal ON : 0 Ω (for terminal 5-3) ∞ Ω (for terminal 5-9) OFF : ∞ Ω (for terminal 5-3) 0 Ω (for terminal 7-9)

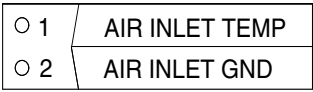
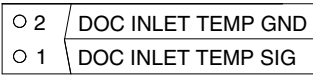
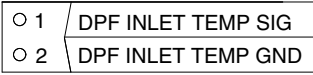
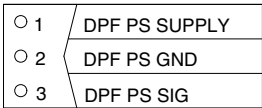
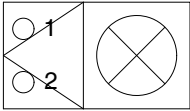
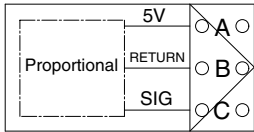
Part name	Symbol	Specifications	Check
Switch (DPF)	 <p>CS-100</p>	24V	※ Check contact Normal I : 0 Ω (for terminal 6-10) O : ∞ Ω (for terminal 6-4, 6-10) II : ∞ Ω (for terminal 6-10)
Head lamp, Work lamp, Cab lamp	 <p>CL-3 CL-4 CL-5 CL-6 CL-8 CL-9 CL-10</p>	24V 65W (H3 Type)	※ Check disconnection Normal : 1.2 Ω
Beacon lamp	 <p>CL-7</p>	24V 70W (H1 Type) 2.4W (LED Type)	※ Check disconnection Normal : A few Ω
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 l /min	※ Check resistance Normal : 1.0 Ω
Fuel feed pump	 <p>CN-145</p>	24V	-
Hour meter	 <p>CN-48</p>	16~32V	※ Check operation Supply power(24V) to terminal No.2 and connect terminal No.1 and ground

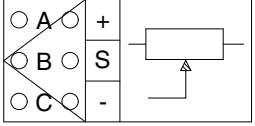
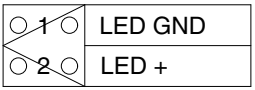
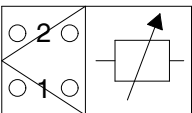
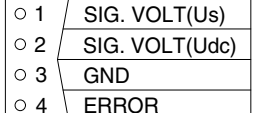
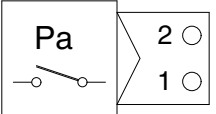
Part name	Symbol	Specifications	Check
Horn	 CN-20 CN-25	22~28V 2A	※ Check operation Supply power(24V) to each terminal and connect ground.
Safety switch	 CS-4	24V 15A (N.C TYPE)	※ Check contact Normal : 1.0Ω ON : 0Ω (for terminal A-B) ∞Ω (for terminal A-C) OFF : ∞Ω (for terminal A-B) 0Ω (for terminal A-C)
Wiper cut switch	 CS-53	24V (N.O TYPE)	※ Check contact Normal : 0Ω (one pin to ground)
Receiver dryer	 CN-29	24V 2.5A (N.O TYPE)	※ Check contact Normal : ∞Ω
Radio & USB player	 CN-27	24V 2A	※ Check voltage 20~25V (for terminal 1-3, 3-8)
Washer pump	 CN-22	24V 3.8A	※ Check contact Normal : 10.7Ω (for terminal 1-2)

Part name	Symbol	Specifications	Check
Wiper motor	 <p>CN-21</p>	24V 2A	※ Check disconnection Normal : 7Ω (for terminal 2-6)
DC/DC Converter	 <p>CN-138</p>	24V 3A	※ Check voltage 24V (for terminal 1-2) 12V (for terminal 1-3)
Cigar lighter	 <p>CL-2</p>	24V 5A 1.4W	※ Check coil resistance Normal : About 1MΩ ※ Check contact Normal : ∞Ω Operating time : 5~15sec
Alternator	 <p>CN-74</p>	Delco Remy 24V 65A	※ Check contact Normal : 0Ω (for terminal B ⁺ -D ⁺) Normal : 24~27.5V
Starter	 <p>CN-45</p>	24V 4.5kW	※ Check contact Normal : 0.1Ω
Travel alarm	 <p>CN-81</p>	24V 0.5A	※ Check contact Normal : 5.2Ω

Part name	Symbol	Specifications	Check
Air conditioner compressor	 CN-28	24V 79W	※ Check contact Normal : 13.4Ω
Start relay	 CR-23	24V 300A	※ Check contact Normal : 0.94Ω (for terminal 1-2)
Blower motor		24V 14A	※ Check resistance Normal : 2.5Ω (for terminal 1-2)
Air conditioner duct sensor (switch)		1°C OFF 4°C ON	※ Check resistance Normal : 0Ω (for terminal 1-2), the atmosphere temp : Over 4°C
Door switch	 CS-5 CS-19 CS-26 CS-29	24V 2W	※ Check resistance Normal : About 5MΩ
Switch (power max, one touch decel, horn, breaker)		24V 6A	※ Check resistance Normal : ∞Ω

Part name	Symbol	Specifications	Check
Circuit breaker	 <p>CN60 CN-95</p>	CN-60 : 60A CN-95 : 90A	※ Check disconnection Normal : 0Ω (connect ring terminal and check resist between terminal 1 and 2)
Master switch	 <p>CS-74</p>	6~36V	※ Check disconnection Normal : 0.1Ω
Breaker pedal switch	 <p>CS-26A</p>	-	-
Quick clamp buzzer	 <p>CN-113</p>	24V 80mA Min 65dB	-
12V Socket	 <p>CN-139</p>	12V 10A	-
Engine emergency stop switch	 <p>CS-33</p>	24V	※ Check contact Normal 0Ω (for terminal 1-2)

Part name	Symbol	Specifications	Check
Air inlet temperature sensor	 <p>CN-150</p>	-	-
DOC inlet temperature sensor	 <p>CN-152</p>	-	-
DPF inlet temperature sensor	 <p>CN-153</p>	-	-
DPF pressure sensor	 <p>CD-154</p>	-	-
WIF sensor	 <p>CL-40</p>	-	※ Check disconnection Normal : 68.8~4.94Ω
Proportional valve sensor	 <p>CN-246(RH) CN-247(LH)</p>	-	-

Part name	Symbol	Specifications	Check
Accel dial	 <p>CN-142</p>	5V, 8mA	-
Accel dial LED	 <p>CN-267</p>	24V	-
Temperature sensor (A/C incar, A/C ambient, water)	 <p>CN-429</p>	-	-
Proportional valve sensor	 <p>CN-308</p>	-	-
Dozer act pressure switch	 <p>CD-50</p>	N.O type	※ Check resistance Normal : $\infty \Omega$ (open)

Part name	Symbol	Specifications	Check																								
Camera	<table border="1" data-bbox="472 286 679 454"> <tr><td>○ 1</td><td>LVDS POS</td></tr> <tr><td>○ 2</td><td>GND</td></tr> <tr><td>○ 3</td><td>LVDS NEG</td></tr> <tr><td>○ 4</td><td>POWER 24V</td></tr> <tr><td>○ 5</td><td>NC</td></tr> <tr><td>○ 6</td><td>ADJUST SIGNAL</td></tr> </table> <p data-bbox="432 461 703 517">CN-249 CN-402 CN-403 CN-404 CN-405</p>	○ 1	LVDS POS	○ 2	GND	○ 3	LVDS NEG	○ 4	POWER 24V	○ 5	NC	○ 6	ADJUST SIGNAL	7V 100mA	-												
○ 1	LVDS POS																										
○ 2	GND																										
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○ 4	POWER 24V																										
○ 5	NC																										
○ 6	ADJUST SIGNAL																										
Equalizer	<table border="1" data-bbox="440 573 722 712"> <tr><td>○ 1</td><td>INPUT-24V</td></tr> <tr><td>○ 2</td><td>GND</td></tr> <tr><td>○ 3</td><td>OUTPUT-12V</td></tr> <tr><td>○ 4</td><td>OUTPUT-12V</td></tr> </table> <p data-bbox="440 719 536 752">CN-435</p>	○ 1	INPUT-24V	○ 2	GND	○ 3	OUTPUT-12V	○ 4	OUTPUT-12V	-	-																
○ 1	INPUT-24V																										
○ 2	GND																										
○ 3	OUTPUT-12V																										
○ 4	OUTPUT-12V																										
LAMBDA sensor	<table border="1" data-bbox="440 813 722 1014"> <tr><td>○ 1</td><td>LAMBDA PUMP</td></tr> <tr><td>○ 5</td><td>LAMBDA ADJUST</td></tr> <tr><td>○ 3</td><td>LAMBDA HEATING</td></tr> <tr><td>○ 4</td><td>LAMBDA BATT+</td></tr> <tr><td>○ 2</td><td>LAMBDA GND</td></tr> <tr><td>○ 6</td><td>LAMBDA VOLT</td></tr> </table> <p data-bbox="440 1021 560 1055">CD-151</p>	○ 1	LAMBDA PUMP	○ 5	LAMBDA ADJUST	○ 3	LAMBDA HEATING	○ 4	LAMBDA BATT+	○ 2	LAMBDA GND	○ 6	LAMBDA VOLT	-	-												
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○ 6	LAMBDA VOLT																										
PVG 32 controller	<table border="1" data-bbox="512 1088 652 1301"> <tr><td>○ 1</td><td>CAN HI</td></tr> <tr><td>○ 2</td><td>CAN LO</td></tr> <tr><td>○ 3</td><td>GND</td></tr> <tr><td>○ 4</td><td>SAFETY</td></tr> <tr><td>○ 5</td><td>KEY IG</td></tr> <tr><td>○ 6</td><td>GND</td></tr> <tr><td>○ 7</td><td>5V POWER</td></tr> <tr><td>○ 8</td><td>5V GND</td></tr> <tr><td>○ 9</td><td>ROTATE / LH</td></tr> <tr><td>○ 10</td><td>ROTATE /RH</td></tr> <tr><td>○ 11</td><td>NC</td></tr> <tr><td>○ 12</td><td>NC</td></tr> </table> <p data-bbox="512 1308 568 1341">CN-3</p>	○ 1	CAN HI	○ 2	CAN LO	○ 3	GND	○ 4	SAFETY	○ 5	KEY IG	○ 6	GND	○ 7	5V POWER	○ 8	5V GND	○ 9	ROTATE / LH	○ 10	ROTATE /RH	○ 11	NC	○ 12	NC	-	-
○ 1	CAN HI																										
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○ 8	5V GND																										
○ 9	ROTATE / LH																										
○ 10	ROTATE /RH																										
○ 11	NC																										
○ 12	NC																										

GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	10	l/conn (Frame harness-Pump PS harness)	S816-010002	S816-110002
CN-2	AMP	16	l/conn (Engine harness-Frame 2 harness)	368047-1	368050-1
CN-3	-	26	l/conn (Frame harness-Engine harness)	1897009-2	1897013-2
CN-3A	TYCO	12	l/conn (Frame harness-PVG controller harness)	174661-2	368537-1
CN-4	AMP	16	l/conn (Console harness LH-Frame harness)	368047-1	368050-1
CN-5	DEUTSCH	60	l/conn (Side harness RH-Frame harness)	DRB16-60SAE-L018	DRB14-60PAE-L018
CN-6	DEUTSCH	6	l/conn (Frame harness-Engine harness)	DT06-6S	DT04-6P
CN-7	AMP	16	l/conn (Console harness RH-Frame harness)	368047-1	368050-1
CN-8	AMP	15	l/conn (Console harness LH-Frame harness)	2-85262-1	368301-1
CN-9	DEUTSCH	12	l/conn (Frame harness- AAVM harness)	DT06-12S	DT04-12PA-P021
CN-10	TYCO	12	l/conn (Cab harness-Side harness RH)	368542-1	368507-1
CN-11	DEUTSCH	8	l/conn (Frame harness-Aircon harness)	DT06-8S	-
CN-12	DEUTSCH	2	l/conn (Frame harness-Boom wire harness)	DT06-2S-EP06	DT04-2P-E005
CN-13	AMP	8	l/conn (Frame harness-Boom floating harness)	174982-2	174984-2
CN-14	DEUTSCH	2	l/conn (Frame harness-Swing parking harness)	DT06-2S-EP06	DT04-2P-E005
CN-15	AMP	8	l/conn (Frame harness-2 way harness)	174982-2	174984-2
CN-16	AMP	6	Emergency engine start & speed control	-	S816-106002
CN-16A	AMP	6	Emergency engine start & speed control	S816-006002	-
CN-16B	AMP	6	Emergency engine start & speed control	S816-006002	S816-106002
CN-17	DEUTSCH	8	l/conn (Side harness RH-Wiper harness)	DT06-8S-EP06	DT04-8P
CN-20	MOLEX	2	Horn	36812-0211	-
CN-21	AMP	6	Wiper motor	S810-006202	-
CN-22	KET	2	Washer tank	MG640605	-
CN-23	KET	2	Speaker-LH	MG610070	-
CN-24	KET	2	Speaker-RH	MG610070	-
CN-25	MOLEX	2	Horn	36812-0211	-
CN-27	KUM	16	Radio & USB player	PK145-16017	-
CN-27A	AMP	8	Radio & USB player	-	S816-108002
CN-28	KUM	1	Air conditioner compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-36-1	AMP	16	To fuse box	368047-1	-
CN-36-2	KET	8	To fuse box	MG610051	-
CN-36-3	-	15	To fuse box	2-85262-1	-
CN-36-4	KET	2	To fuse box	MG610557-5	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-45	RING-TERM	-	Starter motor B ⁺	S820-108000	-
CN-48	KET	1	Hour meter	2-520193-2	-
CN-51	DEUTSCH	40	MCU	DRC26-40SA	-
CN-52	DEUTSCH	40	MCU	DRC26-40SB	-
CN-53	DEUTSCH	40	MCU (option)	DRC26-40SA	-
CN-56A	AMP	12	Cluster	-	174663-2
CN-56B	AMP	8	Cluster	-	174984-2
CN-60	YAZAKI	2	Circuit breaker	-	7122-4125-50
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	-
CN-66	DEUTSCH	2	Breaker solenoid	DT06-2S-EP06	-
CN-68	DEUTSCH	2	Safety solenoid	DT06-2S-EP06	-
CN-70	DEUTSCH	2	Travel high solenoid	DT06-2S-EP06	-
CN-74	RING-TERM	1	Alternator "D ⁺ " terminal	-	S820-105000
CN-75	AMP	2	Pump EPPR valve	S816-002002	-
CN-80	FEP	-	Breather heater	4212110	-
CN-81	DEUTSCH	2	Travel buzzer	DT06-2S-EP06	DT04-2P-E005
CN-88	DEUTSCH	2	Power max solenoid	DT06-2S-EP06	-
CN-93A	DELPHI	10	EIC 1	15326600	-
CN-93B	AMP	62	EIC 2	1-148883-1	-
CN-93	-	60	ECU A1	284742-1	-
CN-94	-	94	ECU K1	284743-1	-
CN-95	-	2	Circuit breaker	-	S813-130201
CN-113	KET	2	Buzzer	MG651205-5	-
CN-125	Econoseal J	4	GPS connector	S816-004002	S816-104002
CN-125A	DEUTSCH	9	RMS	DT06-12S-EP06	HD10-9-96P
CN-126	AMP	10	I/conn (Service tool-Frame harness)	S816-010002	S816-110002
CN-126A	-	9	Service tool	-	HD10-9-96P
CN-133	DEUTSCH	2	Boom priority solenoid	DT06-2S-EP06	-
CN-135	DEUTSCH	2	Arm regeneration solenoid	DT06-2S-EP06	-
CN-138	FASTEN	3	DC/DC Converter	S810-003202	-
CN-139	FASTEN	2	12V socket	172434-2	-
CN-140	DEUTSCH	2	Quick clamp solenoid	DT06-2S-EP06	DT04-2P-E005
CN-141	AMP	13	Wiper motor controller	172498-1	-
CN-142	DEUTSCH	3	Accel dial	DT06-3S-EP06	-
CN-144A	KET	20	Handsfree	MG610240	-
CN-144E	-	8	Handsfree	175964-2	-
CN-145	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	-
CN-149	DEUTSCH	2	Attach safety solenoid	DT06-2S-EP06	-
CN-156	-	2	Air seat heat	-	S816-102002

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-157	AMP	1	Antena power	S822-014002	-
CN-231	-	2	To fuse box	S813-030201	-
CN-237	DEUTSCH	2	Attach conflux solenoid	DT06-2S-EP06	-
CN-242	DEUTSCH	2	Attach EPPR 1	DT06-2S-EP06	-
CN-245	FCI	2	PTC power	-	-
CN-245A	AMP	12	Remote controller assy	368542-1	-
CN-245E	AMP	12	Remote controller assy	174045-2	-
CN-246	AMP	12	USB & socket assy	174045-2	-
CN-246	DEUTSCH	3	Proportional valve-RH	DT06-3S	DT04-3P
CN-246	DEUTSCH	8	USB & socket assy	DT06-08SA-EP06	DT04-8P
CN-247	DEUTSCH	3	Proportional valve-LH	DT06-3S	DT04-3P
CN-249	DEUTSCH	6	Rear view camera	-	DT04-6P
CN-259	AMP	6	Camera	S816-006002	S816-106002
CN-262	DEUTSCH	2	Straight travel solenoid	DT06-2S-EP06	-
CN-263	DEUTSCH	2	2 Piece solenoid	DT06-2S-EP06	-
CN-267	AMP	2	Accel dial LED	S816-002002	-
CN-305	DEUTSCH	12	To PVG controller	DTM06-12SA	-
CN-306	DEUTSCH	12	To PVG controller	DTM06-12SB	-
CN-307	DEUTSCH	3	Proportional-Service tool	DT06-3S-EP06	DT04-3P-E005
CN-308	AMP	4	Proportional-PVG32	2-967059-1	-
CN-309	DEUTSCH	2	Proportional-EPPR valve A1	DT06-2S-EP06	-
CN-310	DEUTSCH	2	Proportional-EPPR valve A2	DT06-2S-EP06	-
CN-365	DEUTSCH	2	Attach relief EPPR valve 1	DT06-2S-EP06	-
CN-366	DEUTSCH	2	Attach relief EPPR valve 2	DT06-2S-EP06	DT04-2P-E005
CN-367	DEUTSCH	2	Boom down floating solenoid	DT06-2S-E005	-
CN-368	DEUTSCH	2	Boom up floating solenoid	DT06-2S-E005	-
CN-369	DEUTSCH	2	Boom down cut off solenoid	DT06-2S-E005	-
CN-370	DEUTSCH	2	Swing fine control solenoid	DT06-2S-EP06	DT04-2P-E005
CN-376	AMP	34	Relay drive unit	4-1437290-1	-
CN-378	DEUTSCH	2	Attach EPPR 2	DT06-2S-EP06	-
CN-398	DEUTSCH	4	Service tool	DT06-4S	-
CN-398	DEUTSCH	4	Service tool	DT06-4S	-
CN-401	FCI	90	AAVM controller	A2C00021583	-
CN-403	DEUTSCH	6	Rear view camera	-	DT04-6P-EP14
CN-404	DEUTSCH	6	LH view camera	-	DT04-6P-EP14
CN-405	DEUTSCH	6	RH view camera	-	DT04-6P-EP14
CN-406	DEUTSCH	3	RS 232	DT06-3S-EP06	DT04-3P-E005
CN-419	DEUTSCH	2	Swing parking solenoid-A1	DT06-2S-EP06	-

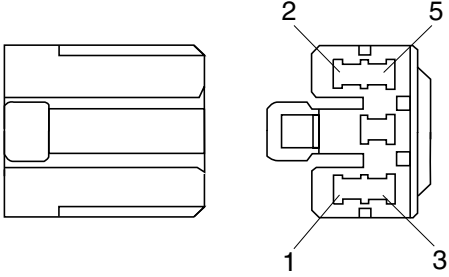
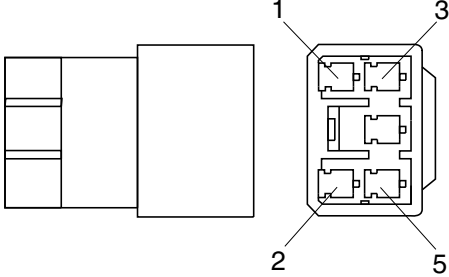
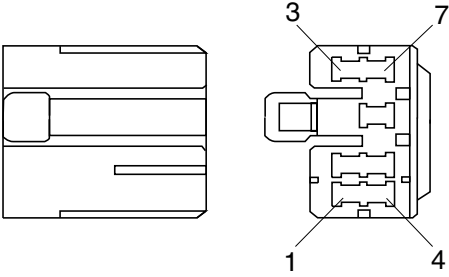
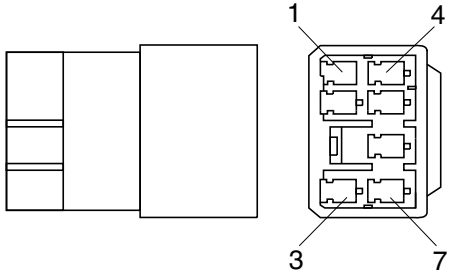
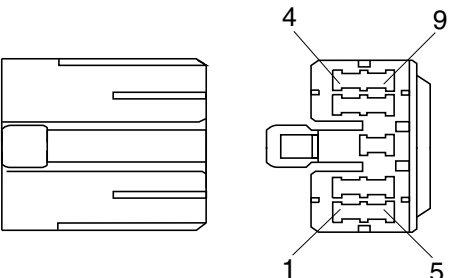
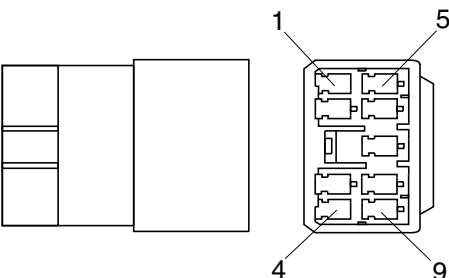
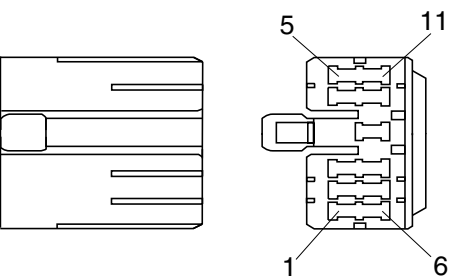
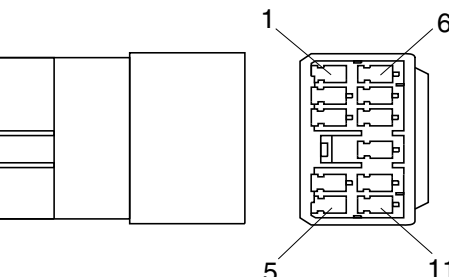
Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-420	DEUTSCH	2	Swing parking solenoid-A2	DT06-2S-EP06	-
CN-421	DEUTSCH	2	Swing parking solenoid-A3	DT06-2S-EP06	-
CN-423	DEUTSCH	4	Tank header unit	DT06-4S	-
CN-425	AMP	2	SCR temperature sensor	282080-1	-
CN-426	AMP	2	DOC temperature sensor	282080-1	-
CN-427	MOLEX	4	Reader-RMS	039012040	026013096
CN-435	DEUTSCH	4	Equalizer	DT06-4S	-
CN-438	FIC	8	Glow plug controller	240PC089S0015	-
CN-BATT	YAZAKI	2	Battery B+	7222-4220-30	-
CN-GND	KET	1	Earth	DT640944-5	-
CN-J7A	AMP	6	NOx sensor (tail)	776433-2	-
CN-J7B	AMP	6	NOx sensor (turbo out)	776433-1	-
· Relay					
CR-1	RING-TERM	-	Battery relay	ST710289-2	-
CR-2	-	5	Horn relay	-	-
CR-4	-	5	Work lamp relay	8JA 003 526-001	-
CR-5	-	5	Anti restart relay	-	-
CR-7	-	5	Aircon compressor relay	-	-
CR-9	-	5	Cabin lamp relay	8JA 003 526-001	-
CR-13	-	5	Head lamp relay	8JA 003 526-001	-
CR-23	KET	2	Start relay	-	MG640322
CR-23A	-	-	Start relay	MG612017-5	-
CR-24	RING TERM	1	Preheat relay	S822-014000	-
CR-35	-	5	Power relay	-	-
CR-36	-	5	Preheat relay	-	-
CR-45	-	5	ECU IG relay	8JA 003 526-001	-
CR-85	-	5	Beacon lamp relay	8JA 003 526-001	-
CR-95	-	5	Feed pump relay	8JA 003 526-001	-
CR-105	-	5	Equalizer	8JA 003 526-001	-
CR-106	-	5	ECU battery relay	MG612017-5	-
CR-107	-	5	DPF relay	8JA 003 526-001	-
CR-108	-	5	ECU start relay	8JA 003 526-001	-
· Switch					
CS-1	SHUR	1	Door switch	S822-014002	-
CS-2A	WP	6	Start key switch	S814-006100	-
CS-2B	DEUTSCH	3	Start button	DT06-3S-EP06	DT04-3P-E005
CS-4	AMP	3	Safety switch	S816-003002	-
CS-5	DEUTSCH	2	Horn switch	-	DT04-2P-E005
CS-19	DEUTSCH	2	One touch decel switch	-	DT04-2P-E005

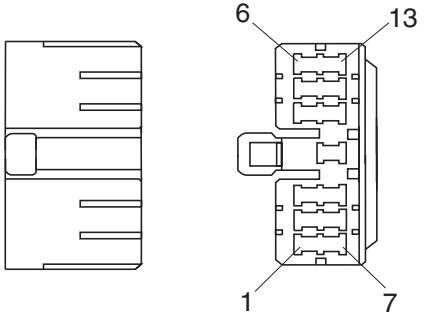
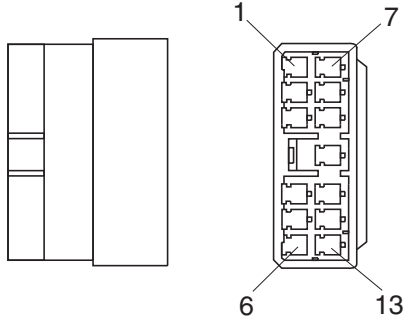
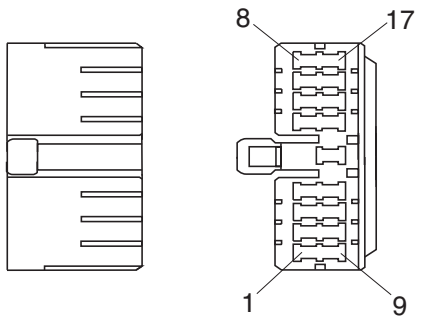
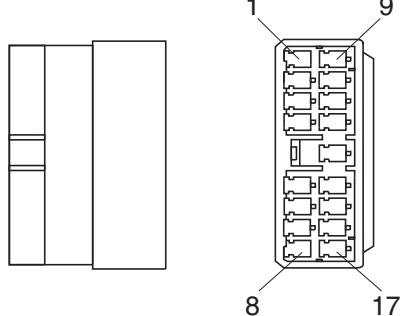
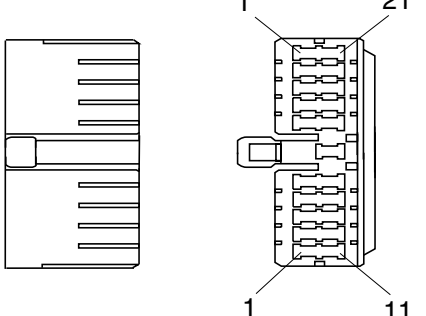
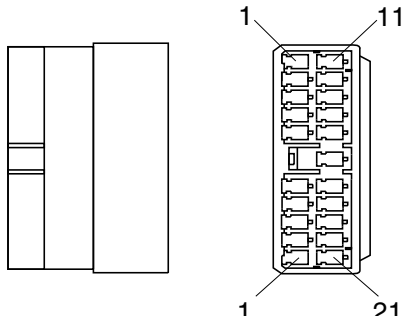
Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CS-26	DEUTSCH	2	Breaker switch	DT06-2S-EP06	-
CS-26A	AMP	2	Breaker pedal switch	S816-002002	S816-102002
CS-29	DEUTSCH	2	Power max switch	DT06-2S-EP06	-
CS-33	AMP	6	Emergency engine stop switch	S816-006002	S816-106002
CS-52	SWF	12	Adjust & dozer switch	SWF589790	-
CS-53	AMP	1	Wiper cut switch	S822-014002	-
CS-67	SWF	12	Quick clamp switch	SWF589790	-
CS-73	SWF	12	Swing lock switch	SWF589790	-
CS-73A	SWF	12	Swing fine switch	SWF589790	-
CS-74A	AMP	2	Master switch	S813-030201	-
CS-74B	DEUTSCH	2	Master switch	DT06-2S-EP06	-
CS-83	SWF	12	Spare switch	SWF589790	-
CS-99	SWF	12	Air compressor switch	SWF589790	-
CS-100	SWF	12	Spare switch	SWF589790	-
CS-107	SWF	12	Travel straight switch	SWF589790	-
CS-111	SWF	12	Boom floating switch	SWF589790	-
· Light					
CL-1	KET	3	Room lamp	MG651032	-
CL-2	AMP	1	Cigar lighter	S822-014002	S822-114002
CL-3	DEUTSCH	2	Head lamp-LH	DT06-2S-EP06	-
CL-4	DEUTSCH	2	Head lamp-RH	DT06-2S-EP06	-
CL-5	DEUTSCH	2	Work lamp-LH	DT06-2S	-
CL-6	DEUTSCH	2	Work lamp-RH	DT06-2S	-
CL-7	SHUR	1	Beacon lamp	S822-014002	S822-114002
CL-8	DEUTSCH	2	Cab light-LH	DT06-2S-EP06	DT04-2P
CL-9	DEUTSCH	2	Cab light-RH	DT06-2S-EP06	DT04-2P
CL-10	DEUTSCH	2	Cab light-rear	DT06-2S-EP06	DT04-2P
· Sensor, sender					
CD-1	AMP	2	Hydraulic oil temp sender	85202-1	-
CD-2	DEUTSCH	2	Fuel sender	DT06-2S-EP06	-
CD-6	DEUTSCH	3	Travel pressure switch	DT06-3S-EP06	-
CD-7	DEUTSCH	3	Working pressure switch	DT06-3S-EP06	-
CD-10	AMP	2	Air cleaner switch	85202-1	-
CD-16	DELPHI	3	Water level sensor	12110293	-
CD-24	DEUTSCH	3	Swing pressure sensor	DT06-3S-EP06	-
CD-31	DEUTSCH	3	Overload pressure sensor	DT06-3S-EP06	DT04-3P-E004
CD-32	DEUTSCH	3	Boom up pressure sensor	DT06-3S-EP06	-
CD-35	DEUTSCH	3	Arm in/out pressure sensor	DT06-3S-EP06	-
CD-42	DEUTSCH	3	Pump pressure sensor 1	DT06-3S-EP06	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CD-43	DEUTSCH	3	Pump pressure sensor 2	DT06-3S-EP06	-
CD-44	DEUTSCH	3	Pump pressure sensor 3	DT06-3S-EP06	-
CD-45	AMP	3	WIF sensor	282191-1	-
CD-50	KET	2	Dozer pressure sensor	MG640795	-
CD-69	DEUTSCH	3	Attach pressure sensor	DT06-3S-EP06	-
CD-70	DEUTSCH	3	N1 pressure sensor	DT06-3S-EP06	-
CD-71	DEUTSCH	3	N2 pressure sensor	DT06-3S-EP06	-
CD-85	DEUTSCH	3	Boom down sensor	DT06-3S-EP06	-
CD-86	DEUTSCH	3	Arm out pressure sensor	DT06-3S-E005	-
CD-87	DEUTSCH	3	Bucket out pressure sensor	DT06-3S-E005	-
CD-90	DEUTSCH	3	Arm in pressure sensor	DT06-3S-EP06	-
CD-91	DEUTSCH	3	Bucket in pressure sensor	DT06-3S-E005	-
CD-98	AMP	2	Air inlet temperature sensor	776427-1	-
CD-98A	AMP	2	Air intake temperature sensor	776427-1	-
CD-124	DEUTSCH	3	Boom cylinder rod pressure snensor	DT06-3S-E005	-
CD-150	AMP	2	Air inlet temperature sensor	85202-1	-
CD-151	BOSCH	6	Lambda snensor	1 928 404900	-
CD-152	BOSCH	2	DOC inlet temperature sensor	1 928 403876	-
CD-153	BOSCH	2	DPF inlet temperature sensor	1 928 403876	-
CD-154	BOSCH	3	DPF pressure snensor	1 928 403966	-

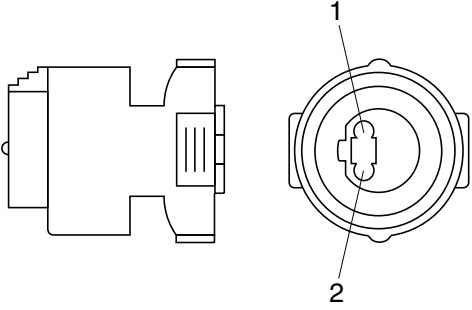
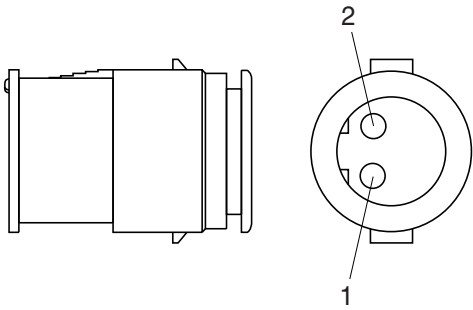
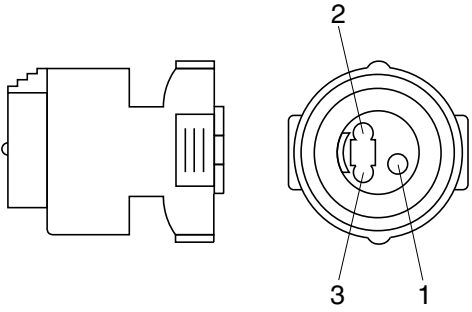
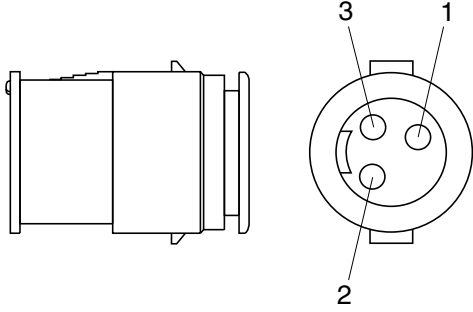
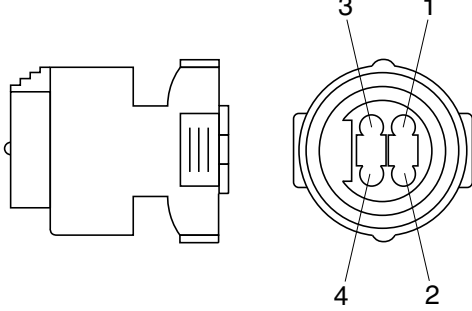
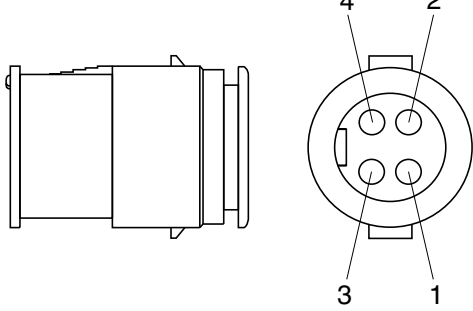
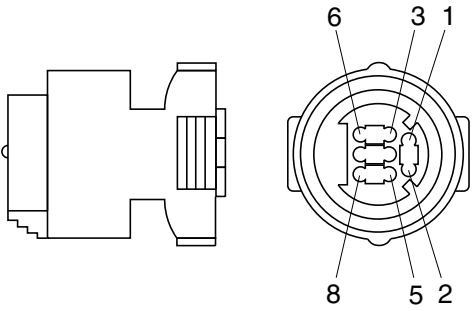
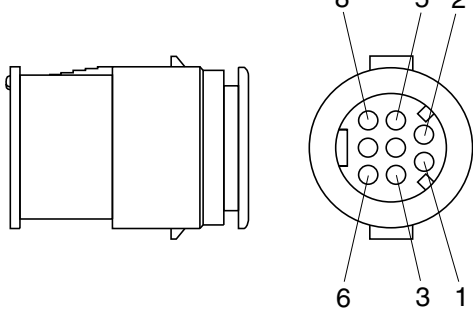
2. CONNECTION TABLE FOR CONNECTORS

1) PA TYPE CONNECTOR

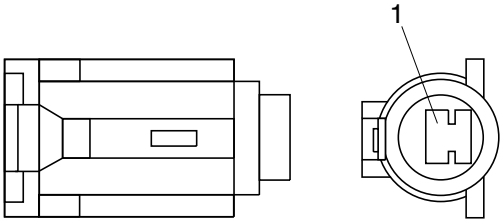
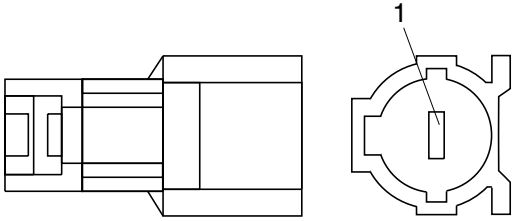
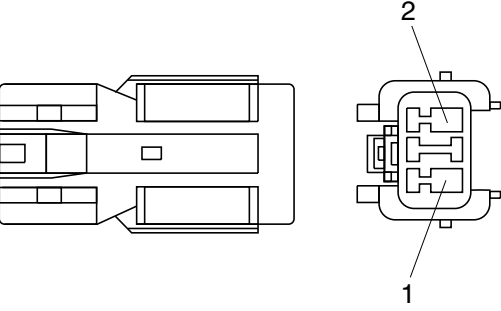
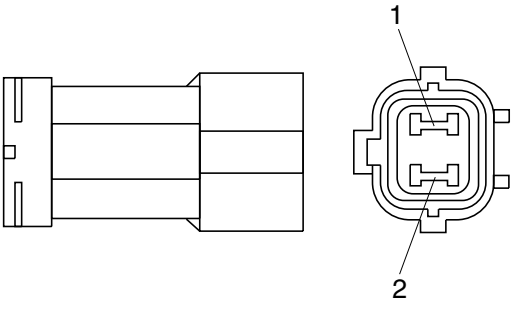
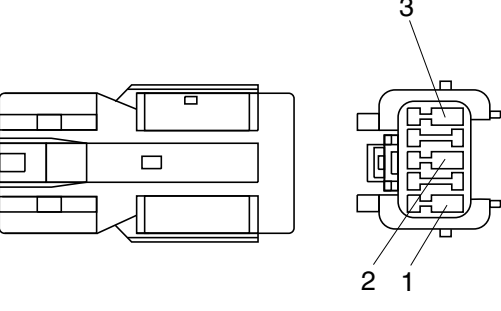
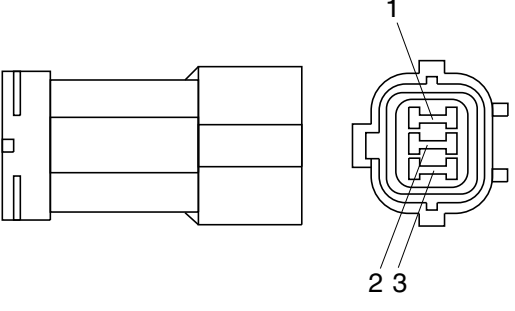
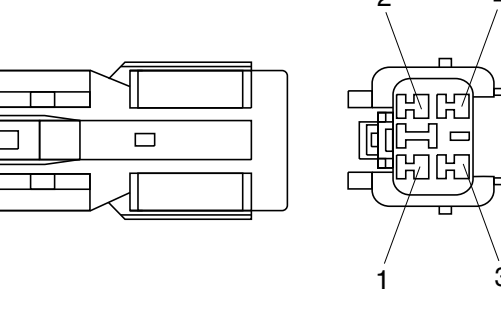
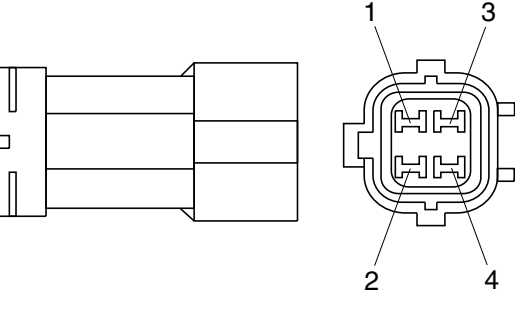
No. of pin	Receptacle connector (female)	Plug connector (male)
5	 <p style="text-align: center;">S811-005002</p>	 <p style="text-align: center;">S811-105002</p>
7	 <p style="text-align: center;">S811-007002</p>	 <p style="text-align: center;">S811-107002</p>
9	 <p style="text-align: center;">S811-009002</p>	 <p style="text-align: center;">3S811-109002</p>
11	 <p style="text-align: center;">S811-011002</p>	 <p style="text-align: center;">S811-111002</p>

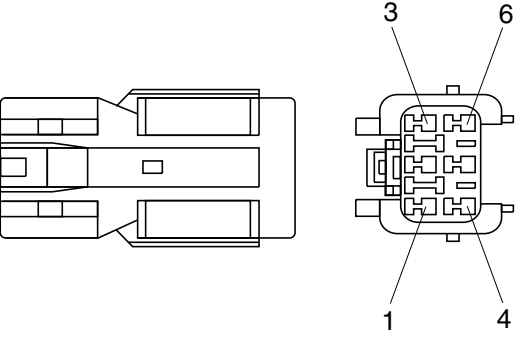
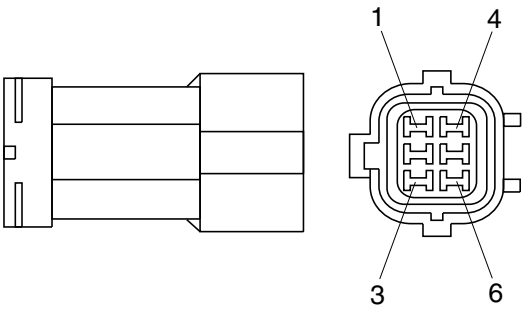
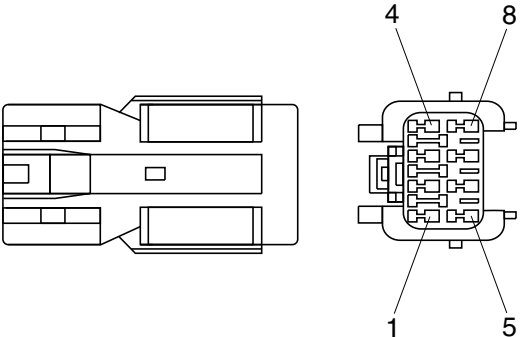
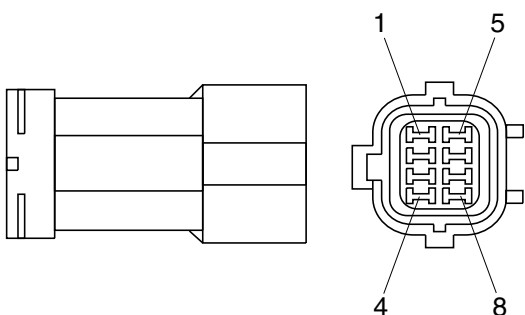
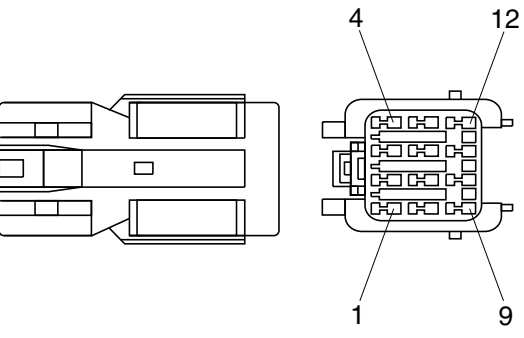
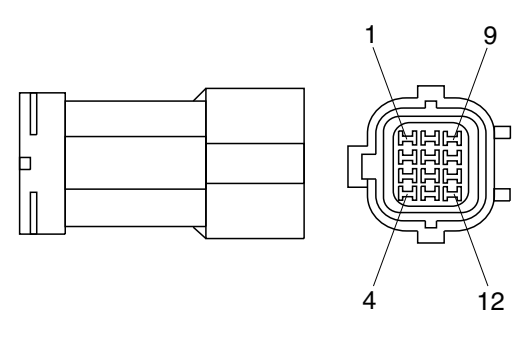
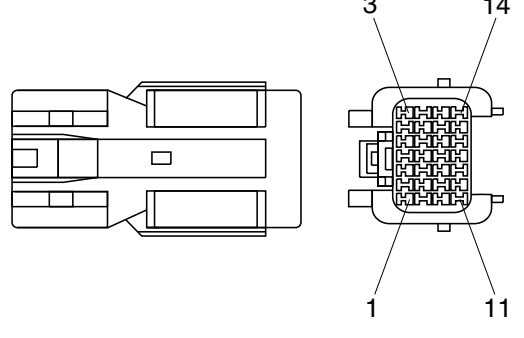
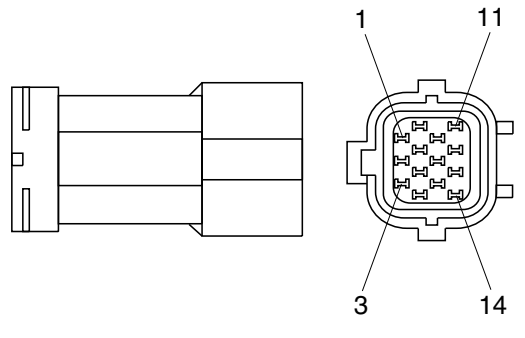
No. of pin	Receptacle connector (female)	Plug connector (male)
13	 <p style="text-align: center;">S811-013002</p>	 <p style="text-align: center;">S811-113002</p>
17	 <p style="text-align: center;">S811-017002</p>	 <p style="text-align: center;">S811-117002</p>
21	 <p style="text-align: center;">S811-021002</p>	 <p style="text-align: center;">S811-121002</p>

2) J TYPE CONNECTOR

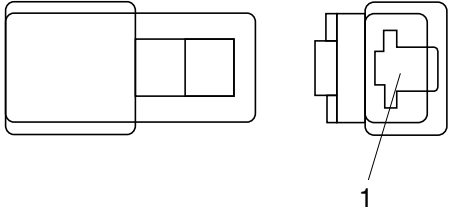
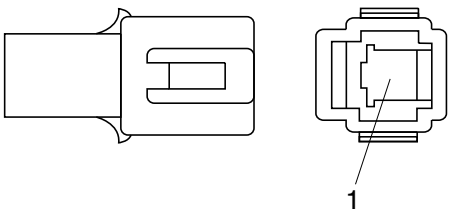
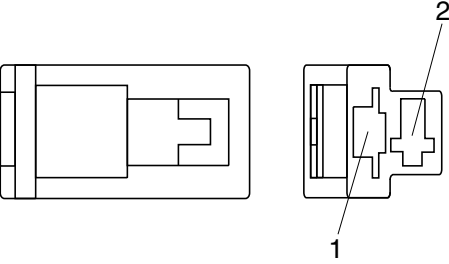
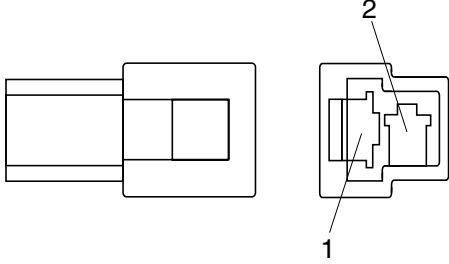
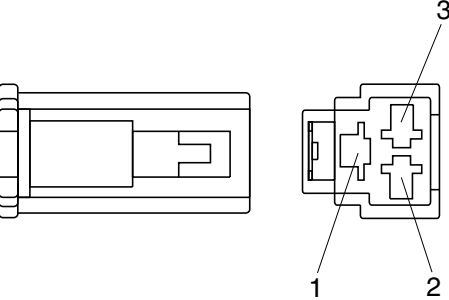
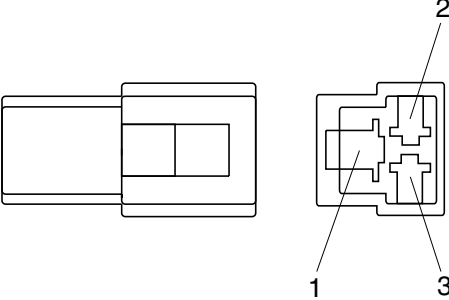
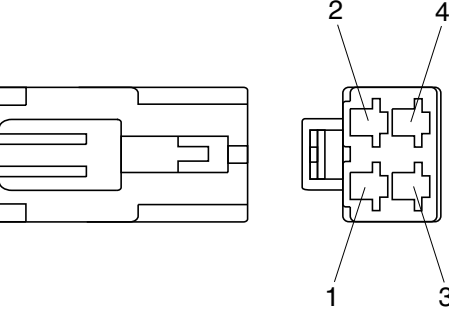
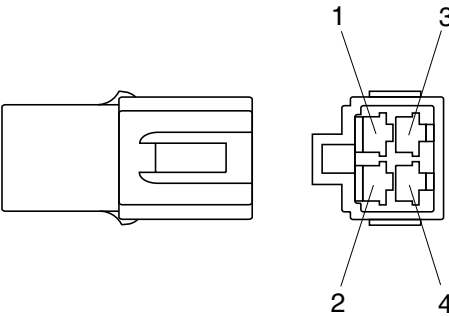
No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: center;">S816-002001</p>	 <p style="text-align: center;">S816-102001</p>
3	 <p style="text-align: center;">S816-003001</p>	 <p style="text-align: center;">S816-103001</p>
4	 <p style="text-align: center;">S816-004001</p>	 <p style="text-align: center;">S816-104001</p>
8	 <p style="text-align: center;">S816-008001</p>	 <p style="text-align: center;">S816-108001</p>

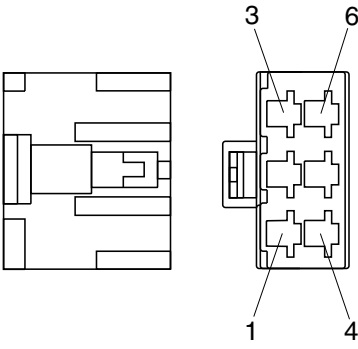
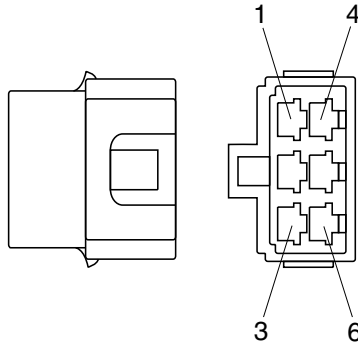
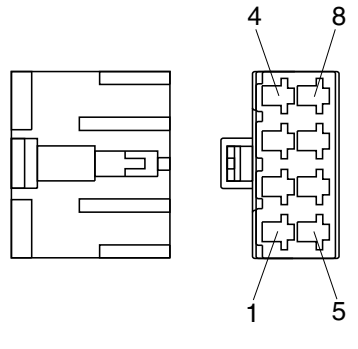
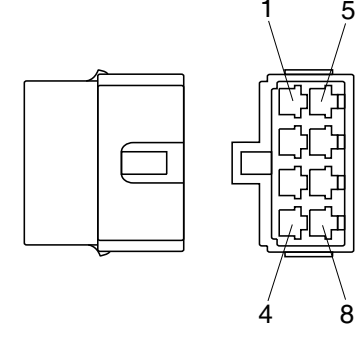
3) SWP TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p data-bbox="687 680 836 707">S814-001000</p>	 <p data-bbox="1241 680 1390 707">S814-101000</p>
2	 <p data-bbox="687 1088 836 1115">S814-002000</p>	 <p data-bbox="1241 1088 1390 1115">S814-102000</p>
3	 <p data-bbox="687 1498 836 1525">S814-003000</p>	 <p data-bbox="1241 1498 1390 1525">S814-103000</p>
4	 <p data-bbox="687 1908 836 1935">S814-004000</p>	 <p data-bbox="1241 1908 1390 1935">S814-104000</p>

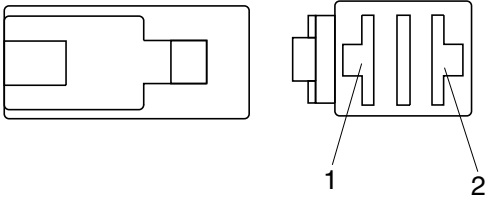
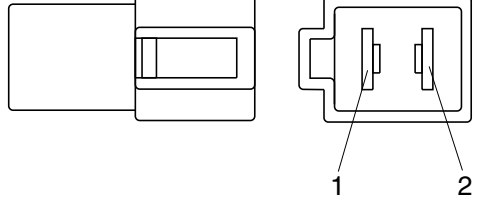
No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p data-bbox="686 638 837 672">S814-006000</p>	 <p data-bbox="1244 638 1396 672">S814-106000</p>
8	 <p data-bbox="686 1041 837 1075">S814-008000</p>	 <p data-bbox="1244 1041 1396 1075">S814-108000</p>
12	 <p data-bbox="686 1444 837 1478">S814-012000</p>	 <p data-bbox="1244 1444 1396 1478">S814-112000</p>
14	 <p data-bbox="686 1848 837 1881">S814-014000</p>	 <p data-bbox="1244 1848 1396 1881">S814-114000</p>

4) CN TYPE CONNECTOR

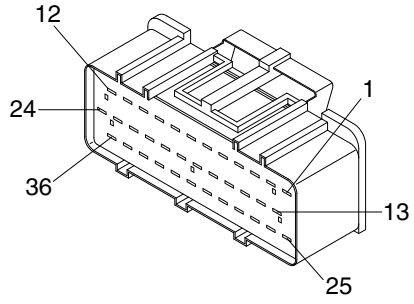
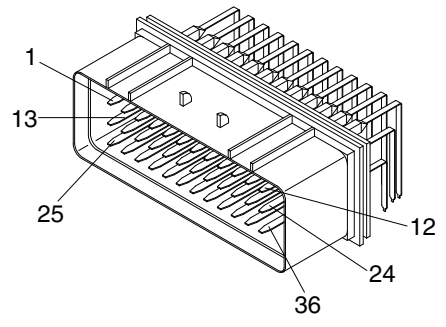
No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p style="text-align: center;">S810-001202</p>	 <p style="text-align: center;">S810-101202</p>
2	 <p style="text-align: center;">S810-002202</p>	 <p style="text-align: center;">S810-102202</p>
3	 <p style="text-align: center;">S810-003202</p>	 <p style="text-align: center;">S810-103202</p>
4	 <p style="text-align: center;">S810-004202</p>	 <p style="text-align: center;">S810-104202</p>

No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p data-bbox="686 638 837 672">S810-006202</p>	 <p data-bbox="1244 638 1396 672">S810-106202</p>
8	 <p data-bbox="686 1041 837 1075">S810-008202</p>	 <p data-bbox="1244 1041 1396 1075">S810-108202</p>

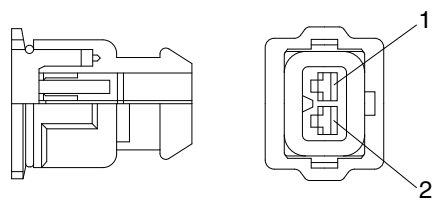
5) 375 FASTEN TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: center;">S810-002402</p>	 <p style="text-align: center;">S810-102402</p>

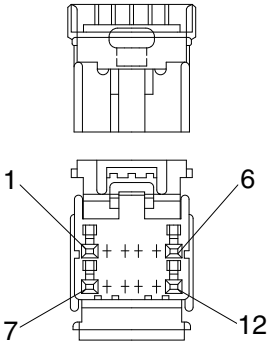
6) AMP ECONOSEAL CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
36	 <p style="text-align: center;">344111-1</p>	 <p style="text-align: center;">344108-1</p>

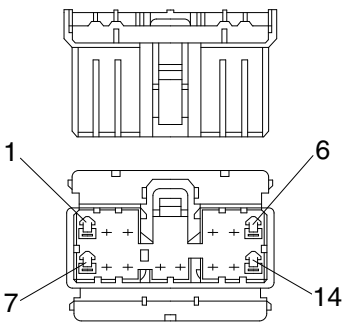
7) AMP TIMER CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: center;">85202-1</p>	

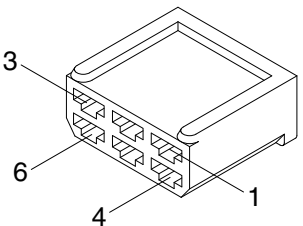
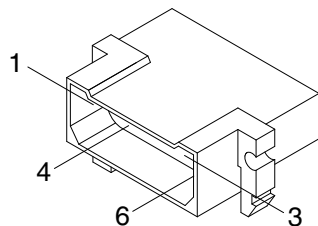
8) AMP 040 MULTILOCK CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
12	 <p style="text-align: right;">174045-2</p>	

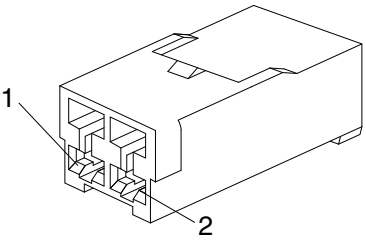
9) AMP 070 MULTILOCK CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
14	 <p style="text-align: right;">173852</p>	

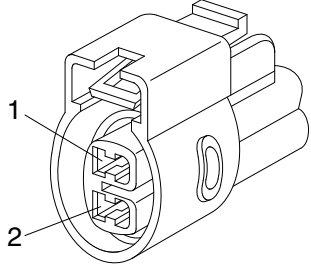
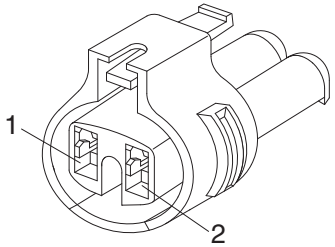
10) AMP FASTIN - FASTON CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p style="text-align: right;">925276-0</p>	 <p style="text-align: right;">480003-9</p>

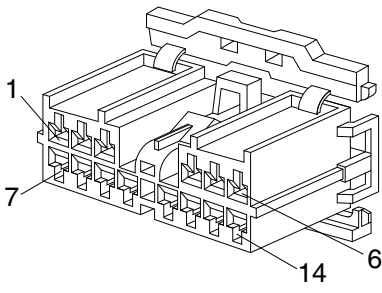
11) KET 090 CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: right;">MG610070</p>	

12) KET 090 WP CONNECTORS

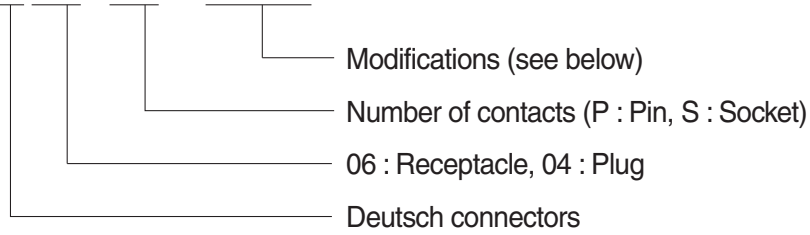
No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: right;">MG640605</p>	
2	 <p style="text-align: right;">MG640795</p>	

13) KET SDL CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
14	 <p data-bbox="710 672 837 705">MG610406</p>	

14) DEUTSCH DT CONNECTORS

DT 06 - 3S - ★★☆☆



※ Modification

E003 : Standard end cap - gray

E004 : Color of connector to be black

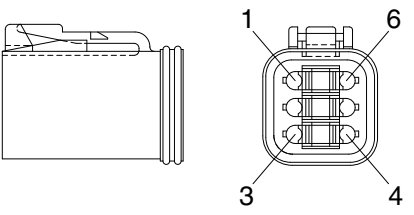
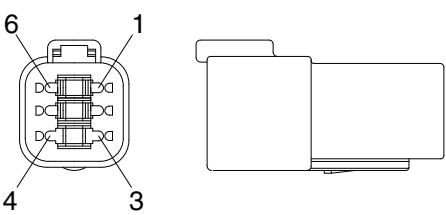
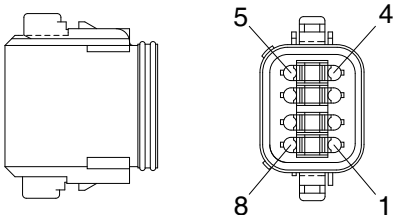
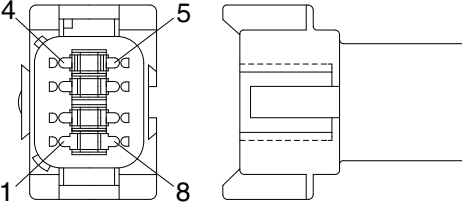
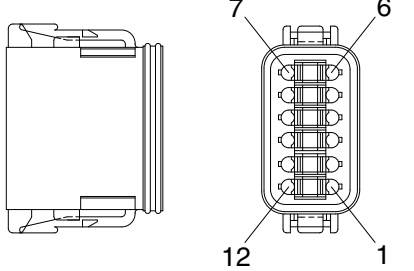
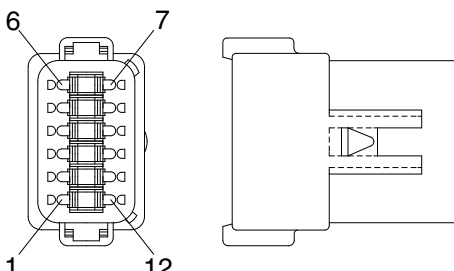
E005 : Combination - E004 & E003

EP04 : End cap

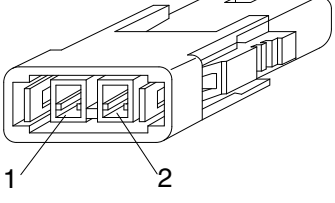
EP06 : Combination P012 & EP04

P012 : Front seal enhancement - connectors color to black for 2, 3, 4 & 6pin

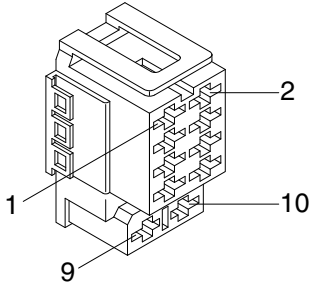
No. of pin	Receptacle connector (female)	Plug connector (male)
2	<p>DT06-2S</p>	<p>DT04-2P</p>
3	<p>DT06-3S</p>	<p>DT04-3P</p>
4	<p>DT06-4S</p>	<p>DT04-4P</p>

No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p style="text-align: center;">DT06-6S</p>	 <p style="text-align: center;">DT04-6P</p>
8	 <p style="text-align: center;">DT06-8S</p>	 <p style="text-align: center;">DT04-8P</p>
12	 <p style="text-align: center;">DT06-12S</p>	 <p style="text-align: center;">DT04-12P</p>

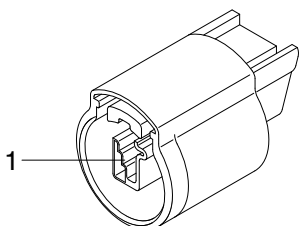
15) MOLEX 2CKTS CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p data-bbox="702 683 837 705">35215-0200</p>	

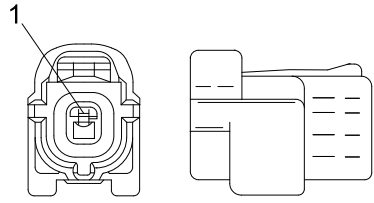
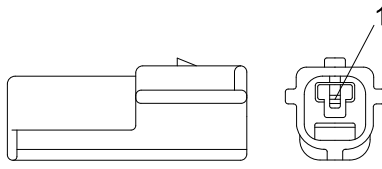
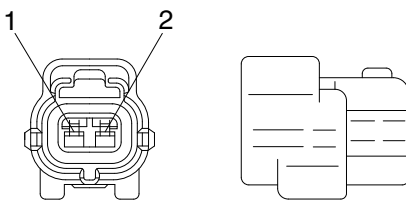
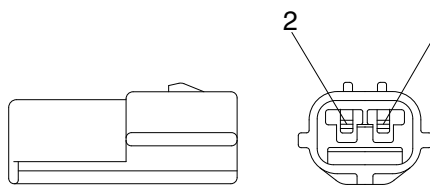
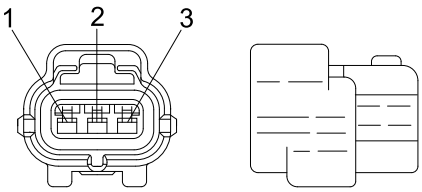
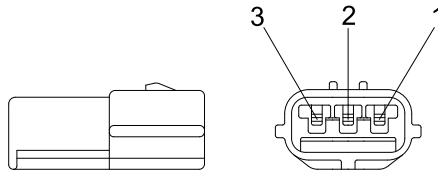
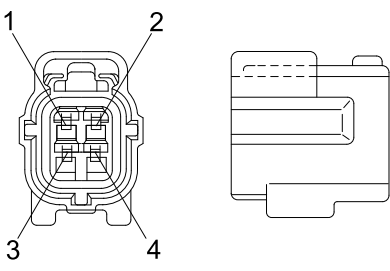
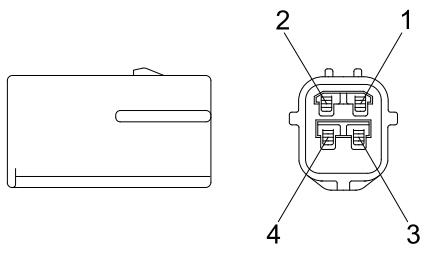
16) ITT SWF CONNECTOR

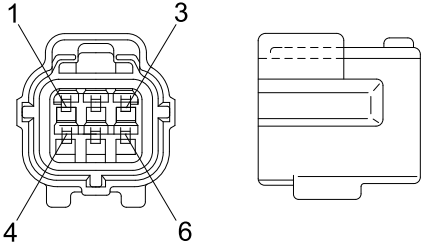
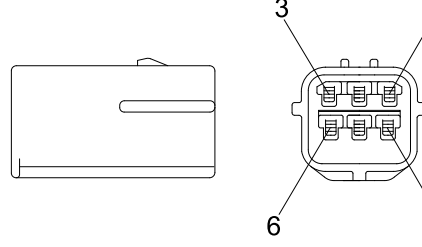
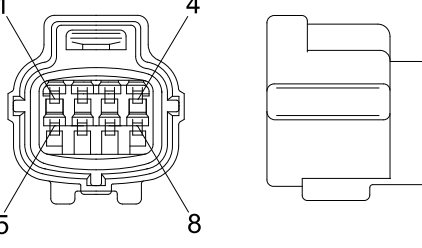
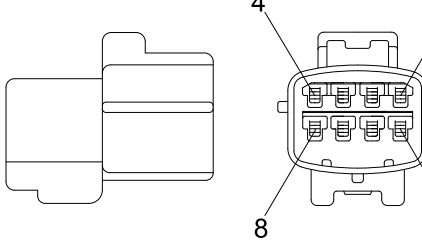
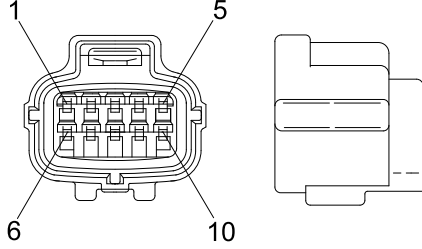
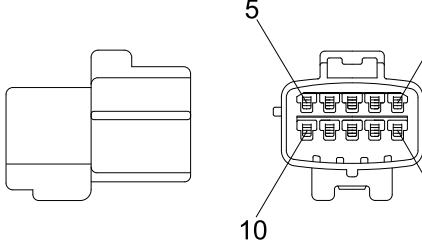
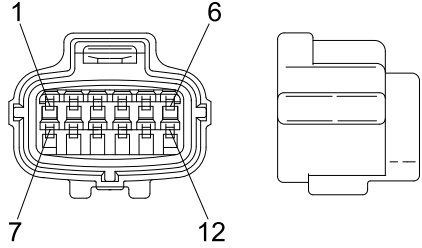
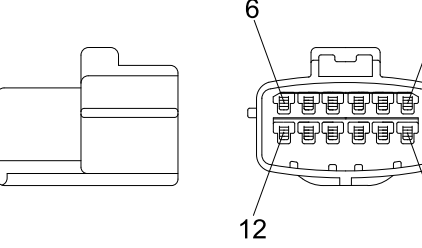
No. of pin	Receptacle connector (female)	Plug connector (male)
10	 <p data-bbox="694 1288 837 1310">SWF593757</p>	

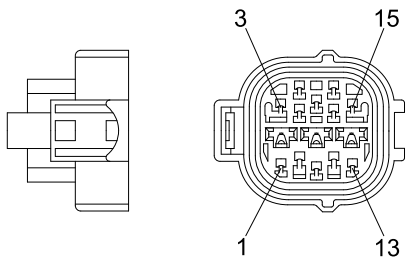
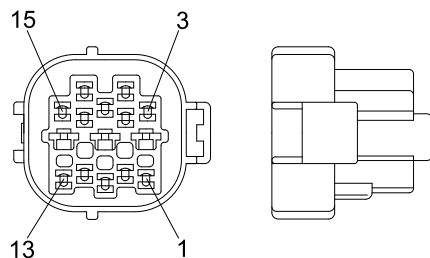
17) MWP NMWP CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p data-bbox="686 1892 837 1915">NMWP01F-B</p>	

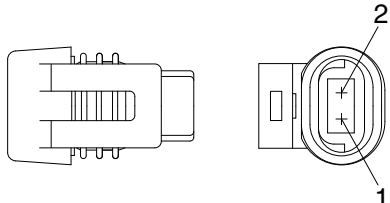
18) ECONOSEAL J TYPE CONNECTORS

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p style="text-align: center;">S816-001002</p>	 <p style="text-align: center;">S816-101002</p>
2	 <p style="text-align: center;">S816-002002</p>	 <p style="text-align: center;">S816-102002</p>
3	 <p style="text-align: center;">S816-003002</p>	 <p style="text-align: center;">S816-103002</p>
4	 <p style="text-align: center;">S816-004002</p>	 <p style="text-align: center;">S816-104002</p>

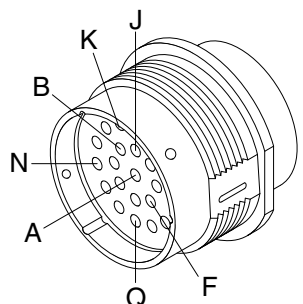
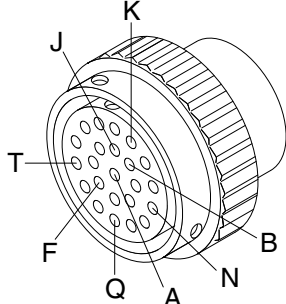
No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p style="text-align: center;">S816-006002</p>	 <p style="text-align: center;">S816-106002</p>
8	 <p style="text-align: center;">S816-008002</p>	 <p style="text-align: center;">S816-108002</p>
10	 <p style="text-align: center;">S816-010002</p>	 <p style="text-align: center;">S816-110002</p>
12	 <p style="text-align: center;">S816-012002</p>	 <p style="text-align: center;">S816-112002</p>

No. of pin	Receptacle connector (female)	Plug connector (male)
15	 <p style="text-align: center;">368301-1</p>	 <p style="text-align: center;">2-85262-1</p>

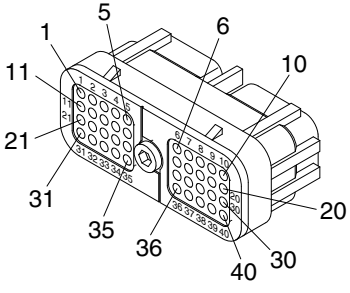
19) METRI-PACK TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: center;">12040753</p>	

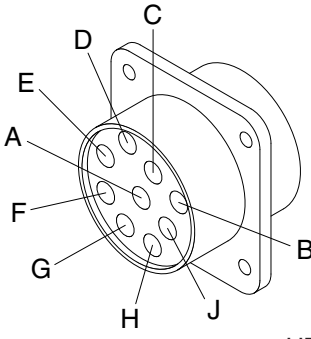
20) DEUTSCH HD30 CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
23	 <p style="text-align: center;">HD36-24-23SN</p>	 <p style="text-align: center;">HD34-24-23PN</p>

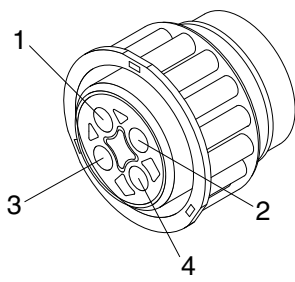
21) DEUTSCH MCU CONNECTOR

No. of pin	Receptacle connector (Female)	Plug connector (Male)
40	 <p style="text-align: right;">DRC26-40SA/B</p>	

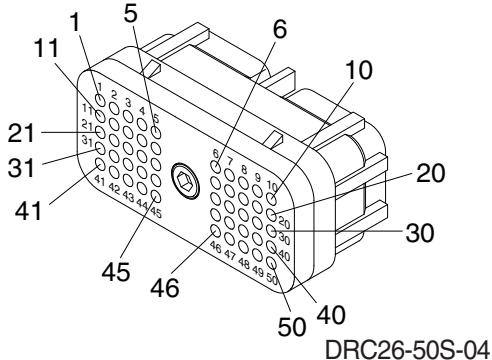
22) DEUTSCH SERVICE TOOL CONNECTOR

No. of pin	Receptacle connector (Female)	Plug connector (Male)
9	 <p style="text-align: right;">HD10-9-96P</p>	

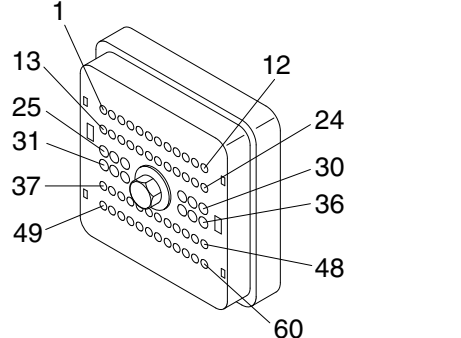
23) AMP FUEL WARMER CONNECTOR

No. of pin	Receptacle connector (Female)	Plug connector (Male)
4	 <p style="text-align: right;">2-967325-3</p>	

24) DEUTSCH ENGINE ECM CONNECTOR

No. of pin	Receptacle connector (Female)	Plug connector (Male)
50	 <p style="text-align: right;">DRC26-50S-04</p>	

25) DEUTSCH INTERMEDIATE CONNECTOR

No. of pin	Receptacle connector (Female)	Plug connector (Male)
60	 <p style="text-align: right;">DRB16-60SAE-L018</p>	