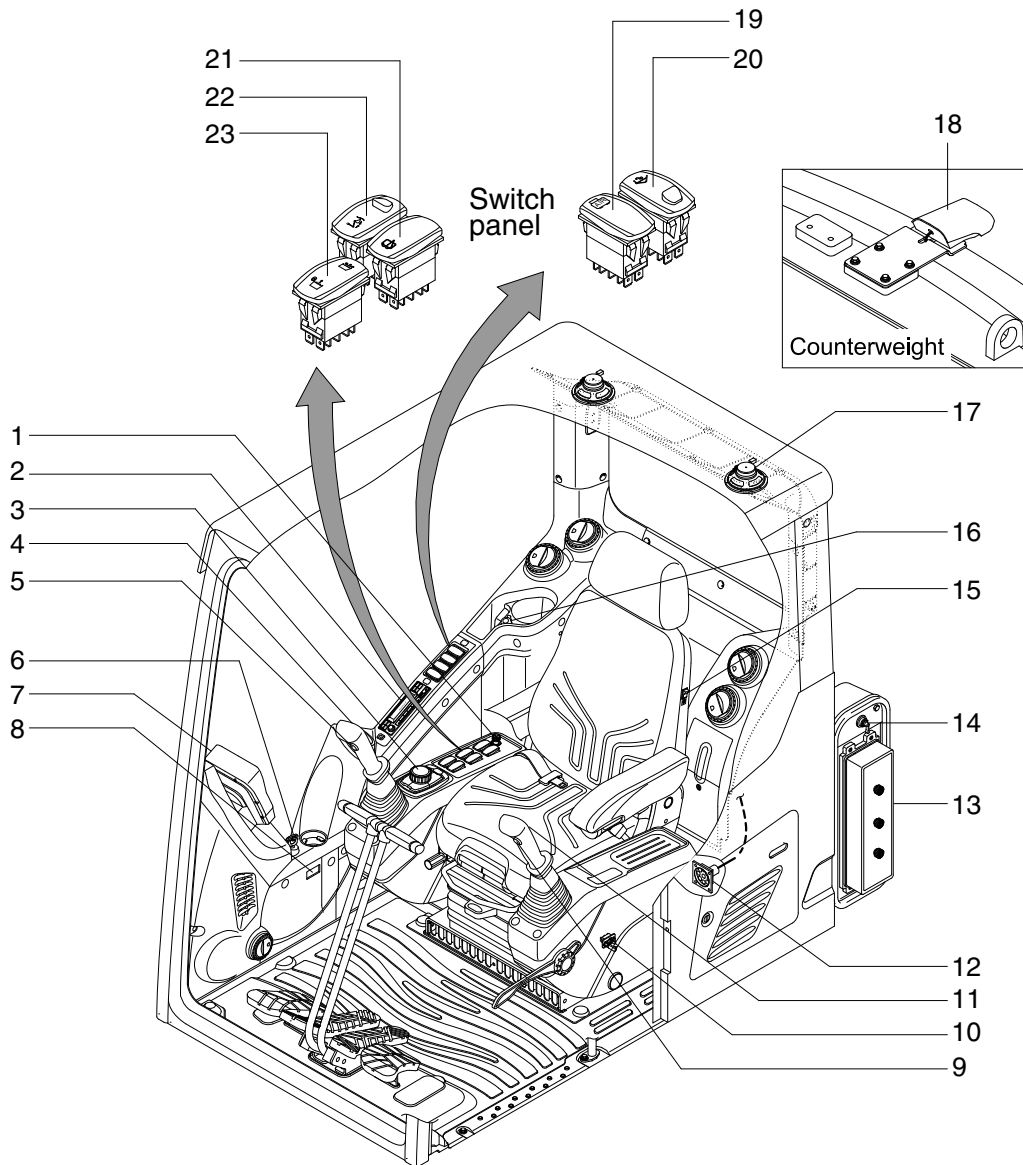


SECTION 4 ELECTRICAL SYSTEM

GROUP 1 COMPONENT LOCATION

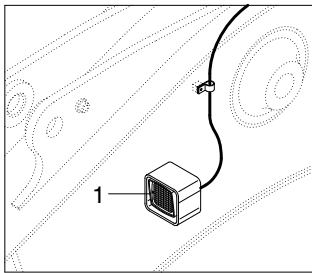
1. LOCATION 1



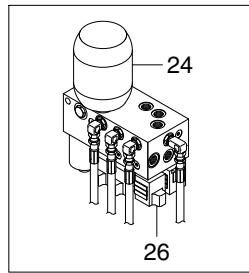
140L4EL101

- | | | |
|----------------------------|---------------------------------|---------------------------|
| 1 Cigar lighter | 9 Power max switch | 17 Speaker |
| 2 Radio & USB player | 10 Emergency engine stop switch | 18 Rear view camera |
| 3 Haptic controller | 11 One touch decel switch | 19 Quick clamp switch |
| 4 Horn switch | 12 RS232 & J1939 service socket | 20 Air compressor switch |
| 5 Breaker operation switch | 13 Fuse & relay box | 21 Option attach switch |
| 6 Starting switch | 14 Master switch | 22 Boom floating switch |
| 7 Cluster | 15 Seat heater switch | 23 Swing lock/fine switch |
| 8 Service meter | 16 Power socket | |

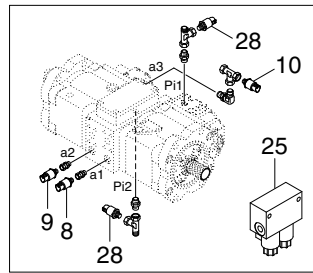
2. LOCATION 2



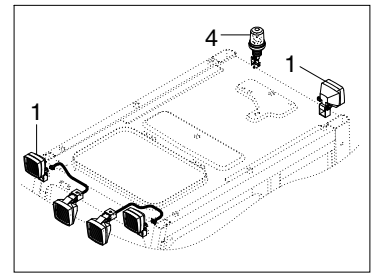
BOOM



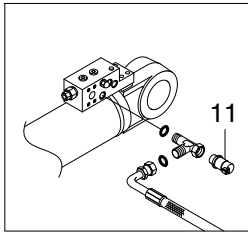
SOLENOID VALVE



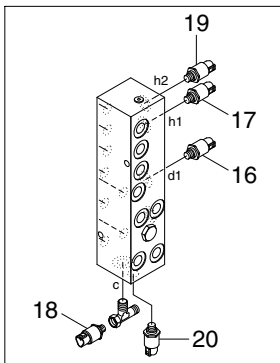
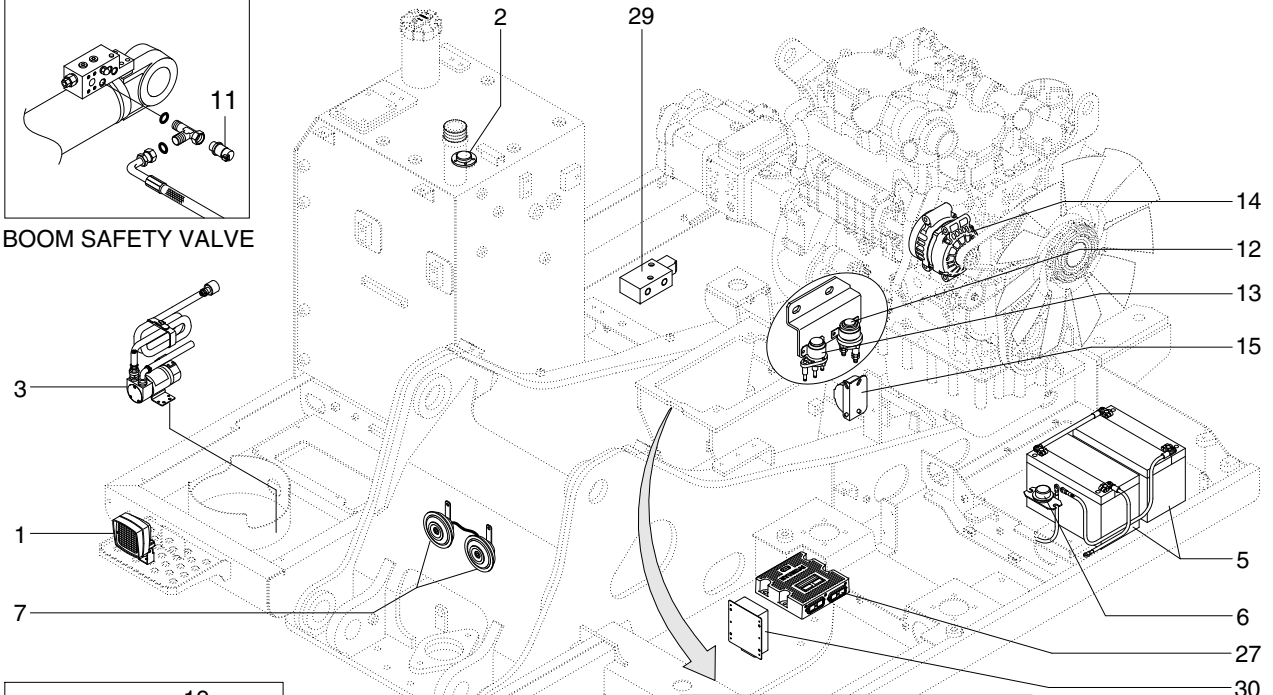
MAIN PUMP



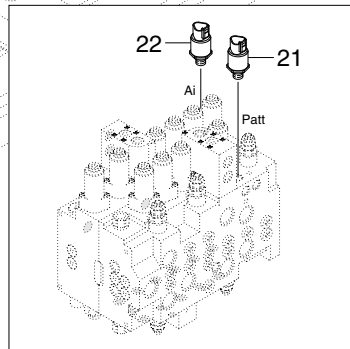
CAB



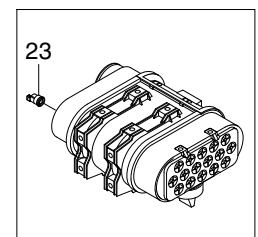
BOOM SAFETY VALVE



SHUTTLE BLOCK



MAIN CONTROL VALVE



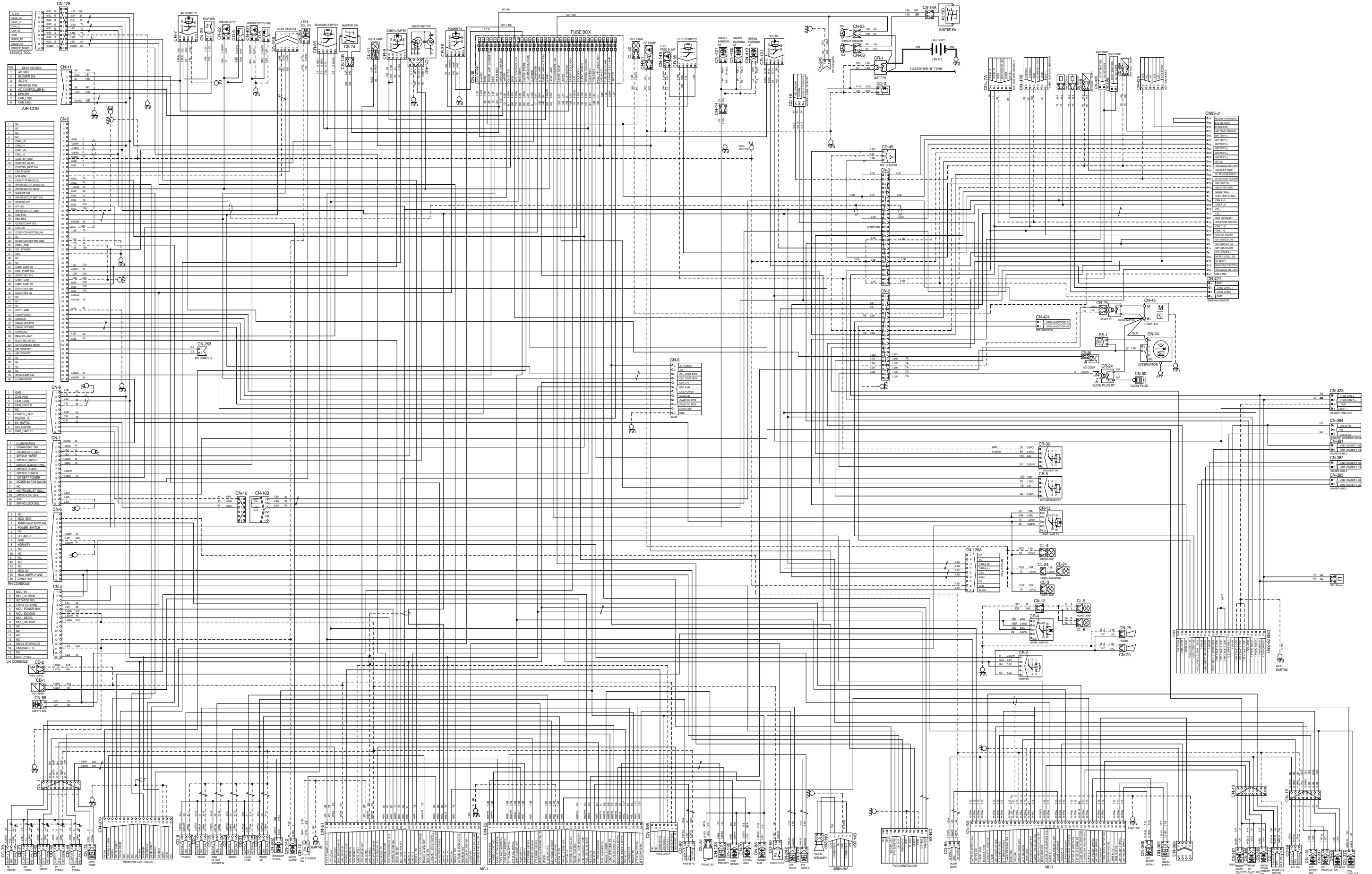
AIR CLEANER

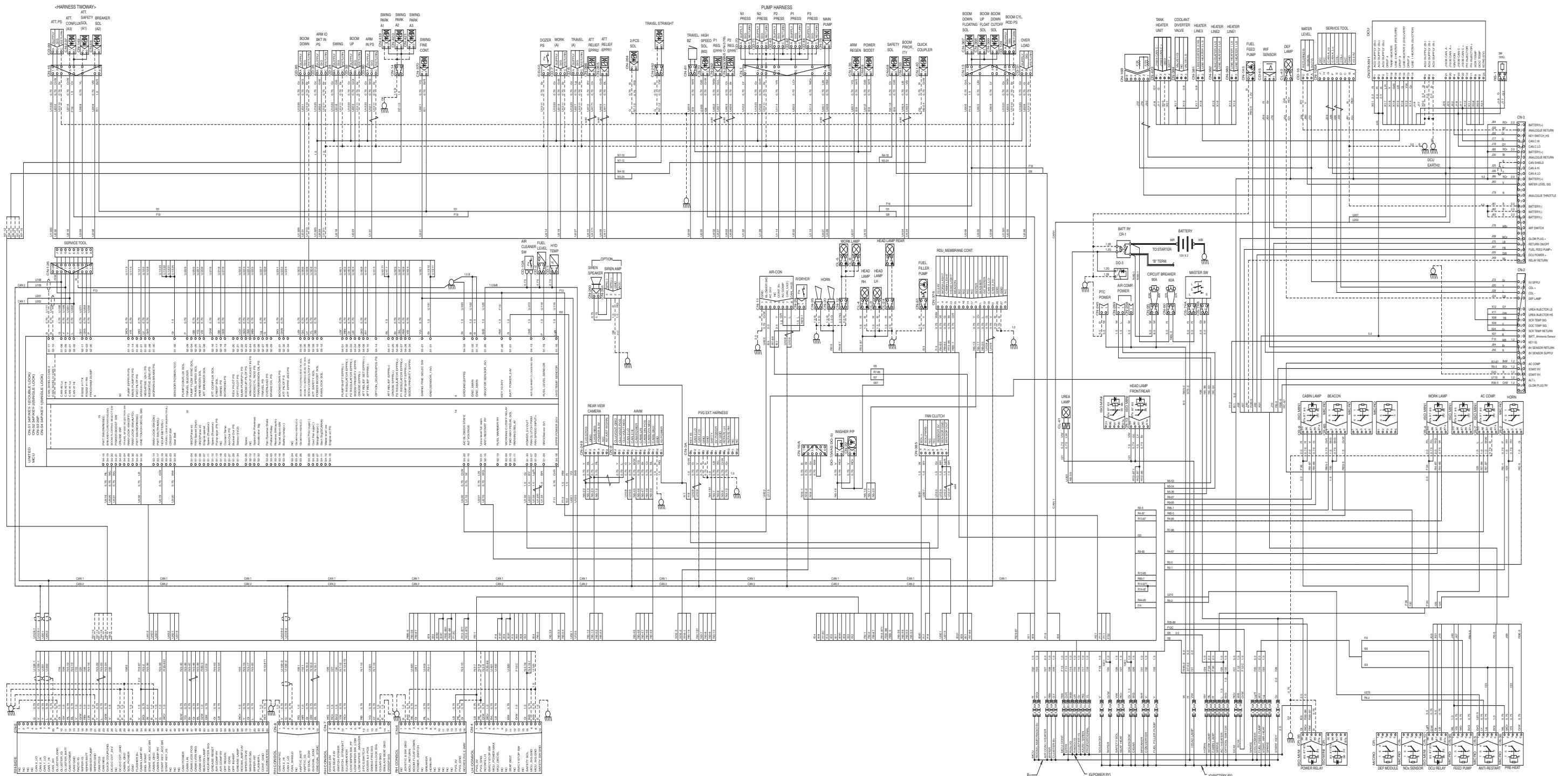
140L4EL102

- | | | |
|-------------------------|----------------------------------|-----------------------------------|
| 1 Lamp | 11 Overload pressure sensor | 21 Attach pressure sensor |
| 2 Fuel sender | 12 Start relay | 22 Travel pressure sensor |
| 3 Fuel filler pump | 13 Heater relay | 23 Air cleaner sensor |
| 4 Beacon lamp | 14 Alternator | 24 Solenoid valve |
| 5 Battery | 15 Travel alarm buzzer | 25 Pump EPPR valve |
| 6 Battery relay | 16 Arm/Bucket in pressure sensor | 26 Boom priority EPPR valve |
| 7 Horn | 17 Boom up pressure sensor | 27 MCU |
| 8 P1 pressure sensor | 18 Swing pressure sensor | 28 Nega-control pressure sensor |
| 9 P2 pressure sensor | 19 Boom down pressure sensor | 29 Travel straight solenoid valve |
| 10 EPPR pressure sensor | 20 Arm in pressure sensor | 30 MCU - Attach |

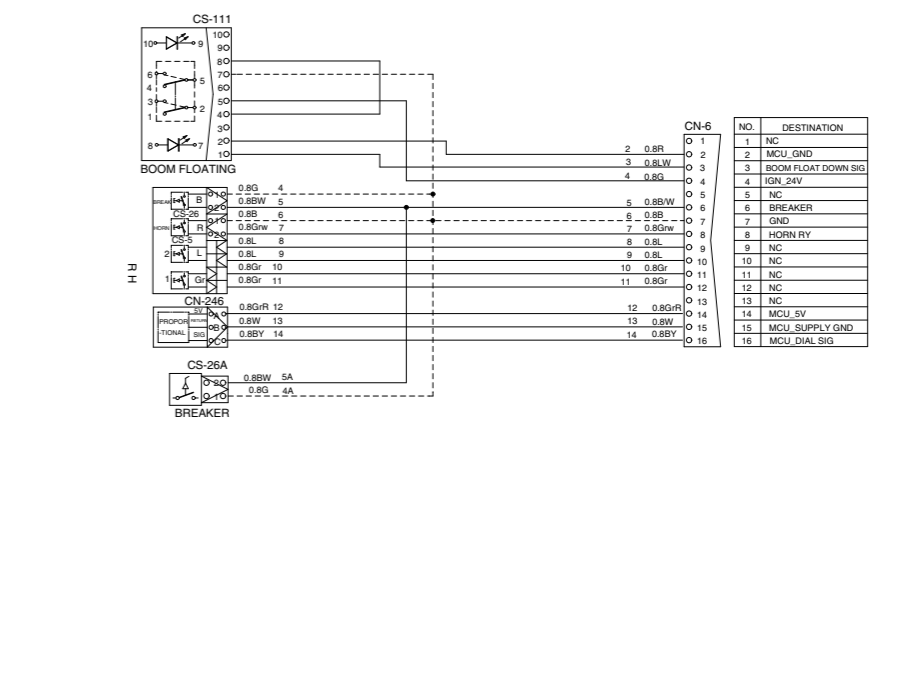
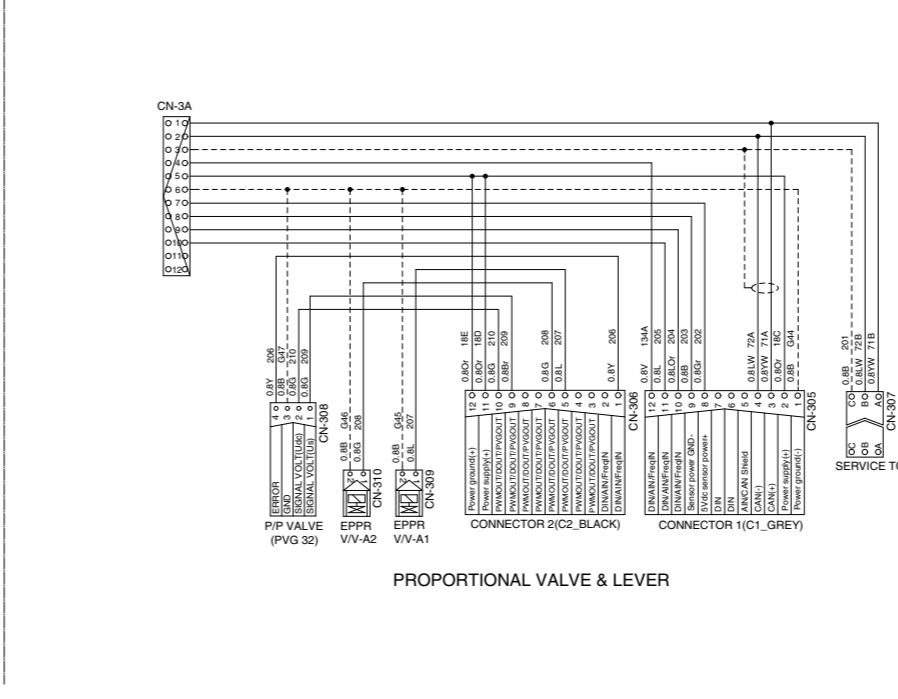
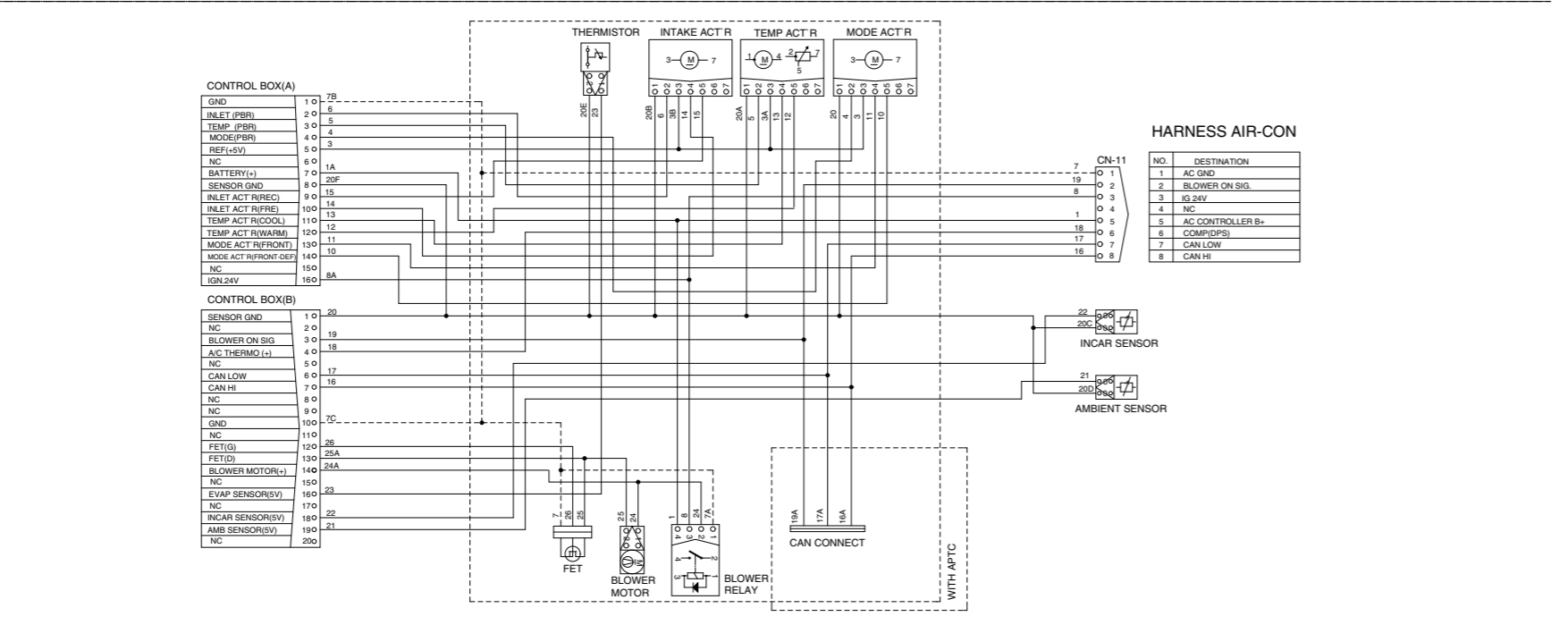
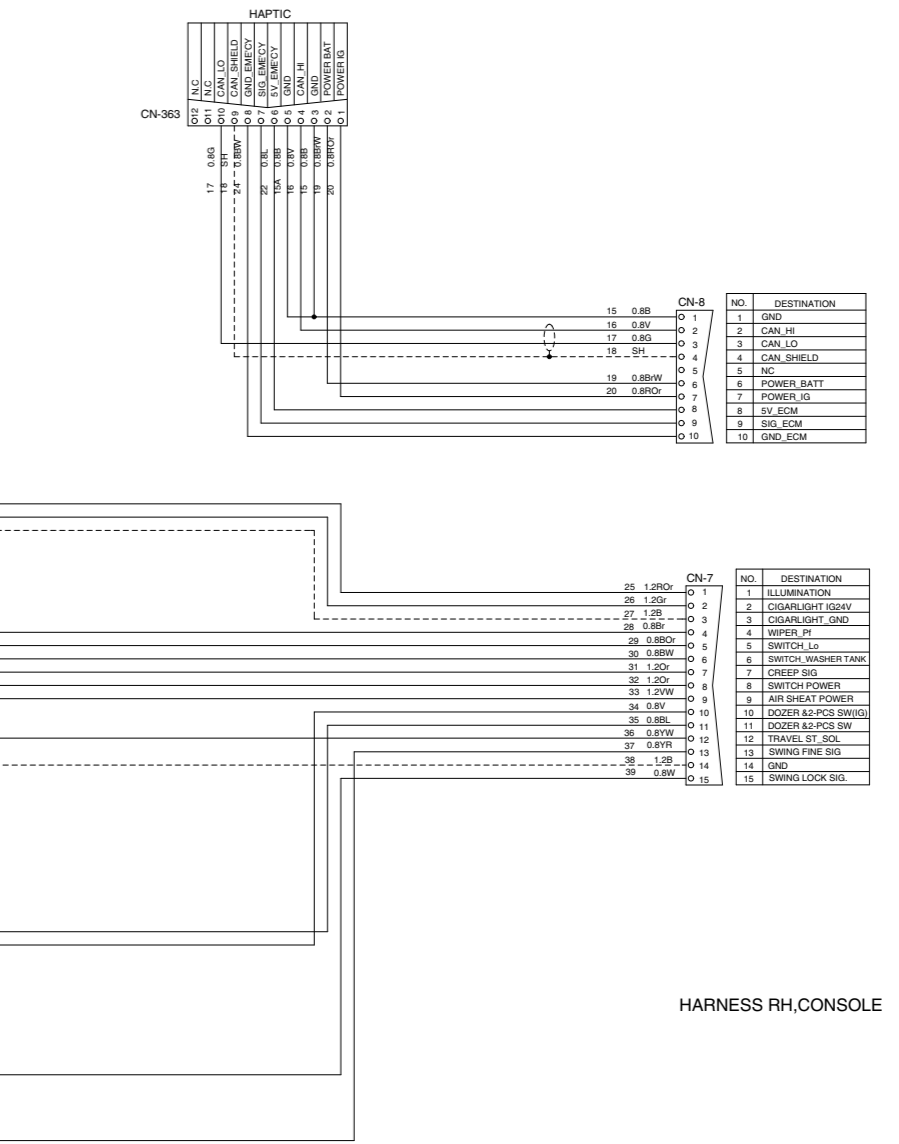
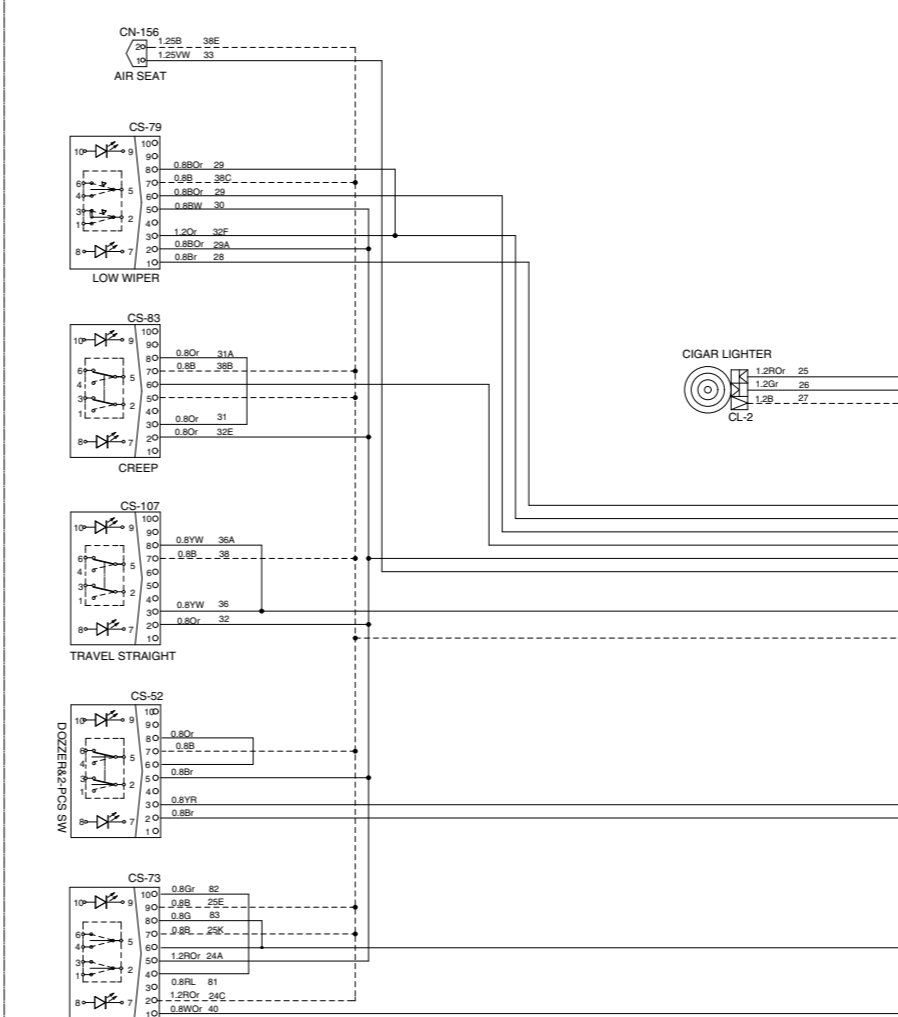
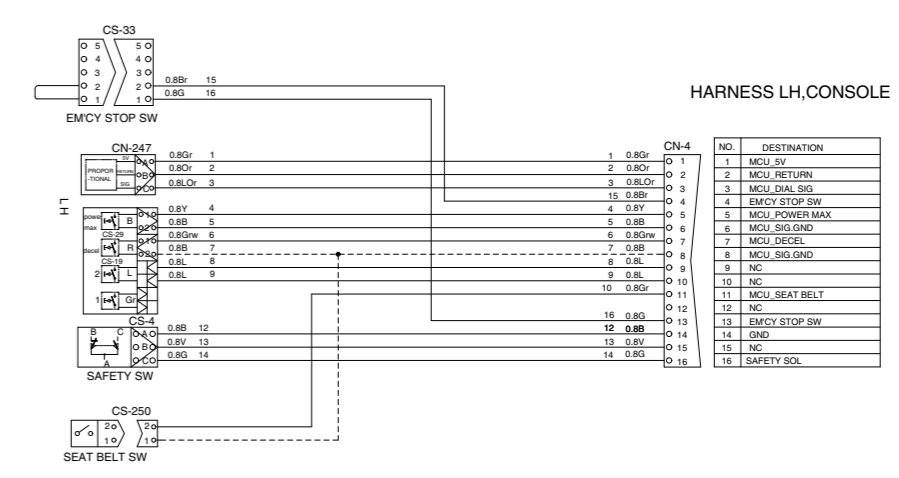
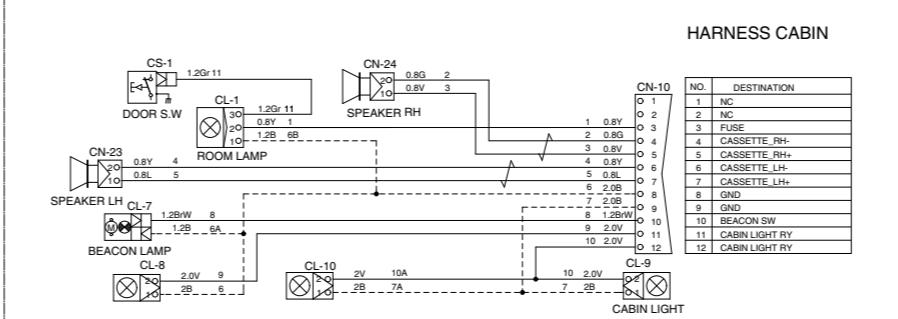
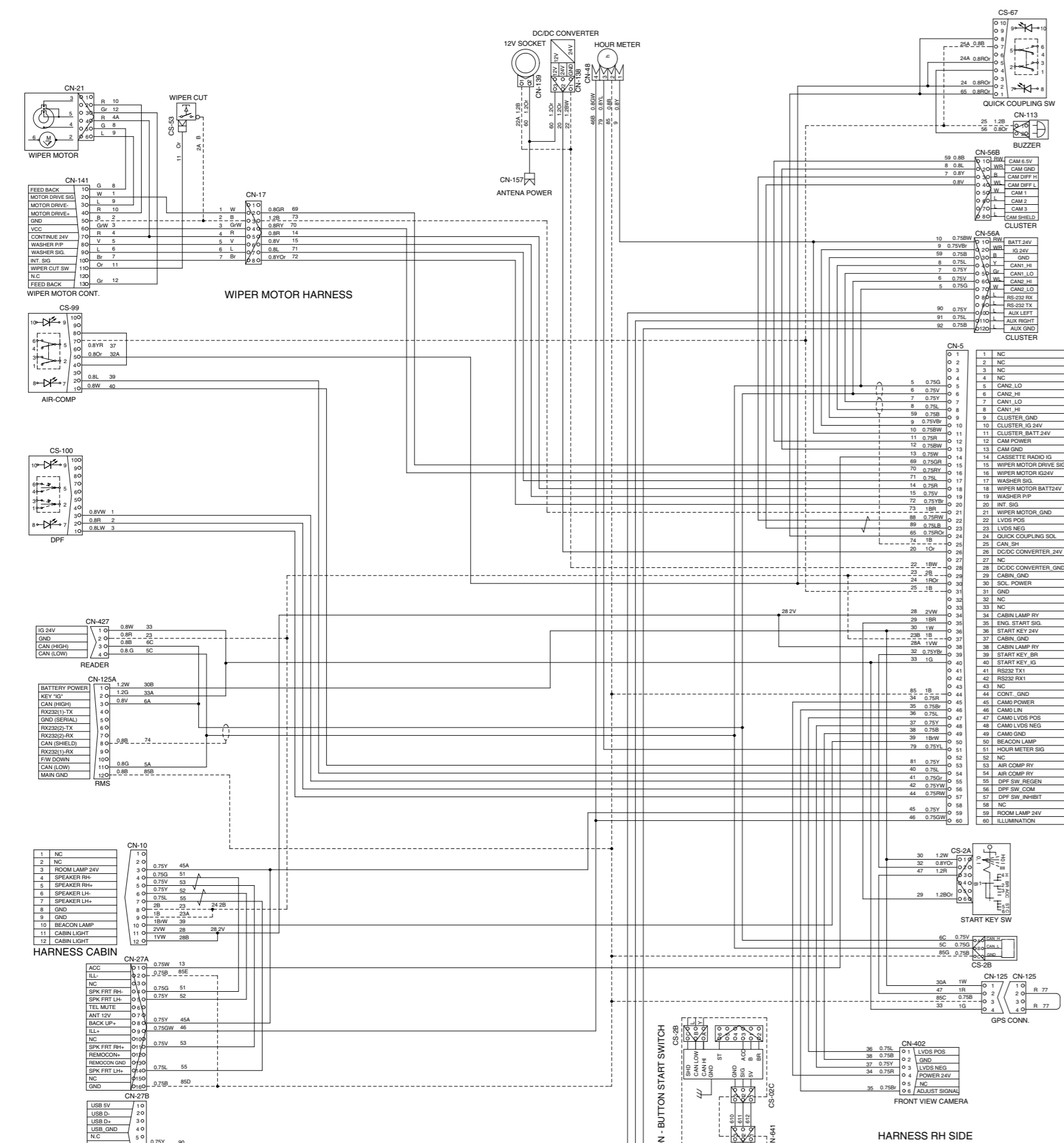
GROUP 2 ELECTRICAL CIRCUIT

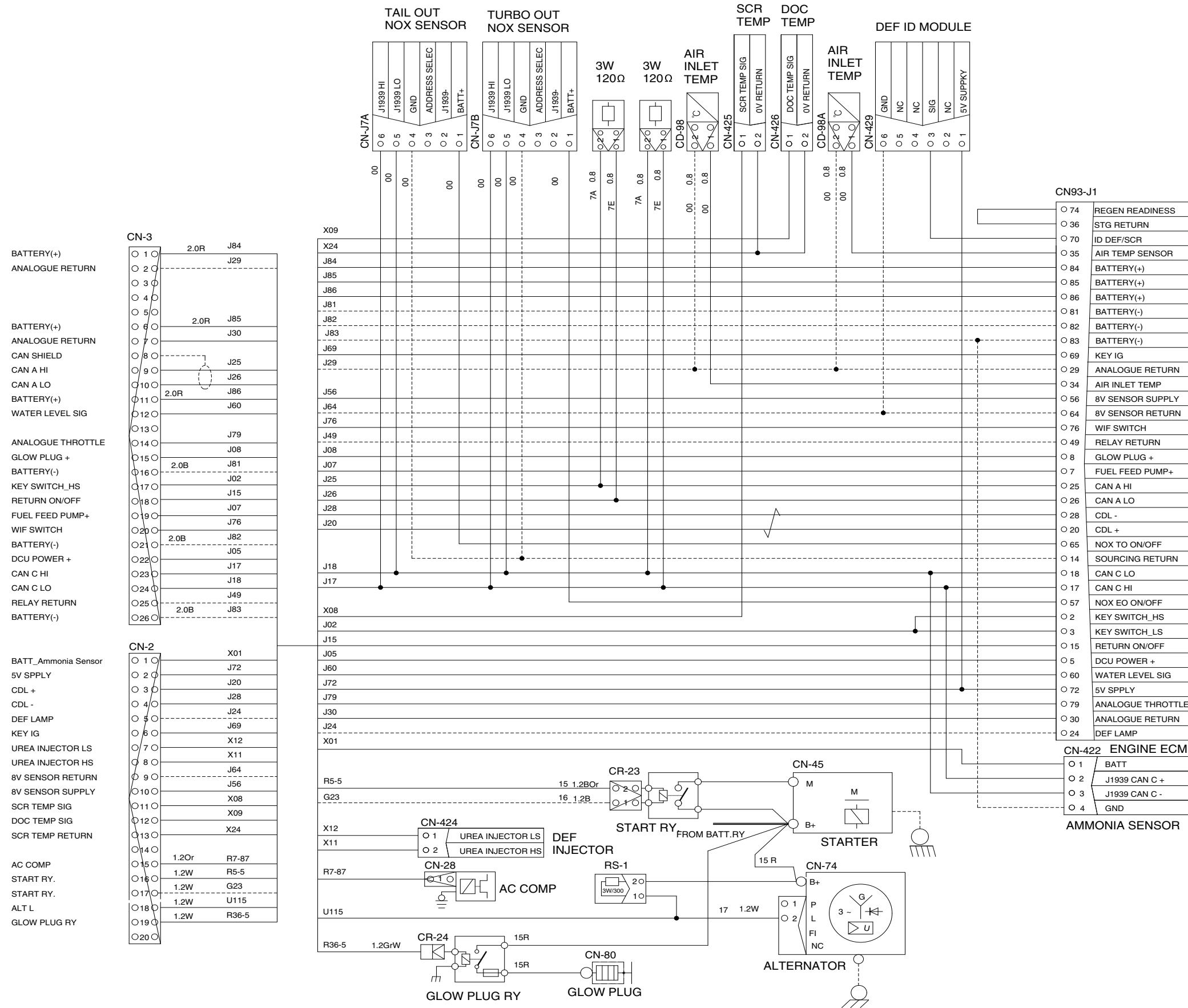
ELECTRICAL CIRCUIT (1/5, SERIAL NO. : -#0610)





· ELECTRICAL CIRCUIT (4/5, SERIAL NO. :#0611-)





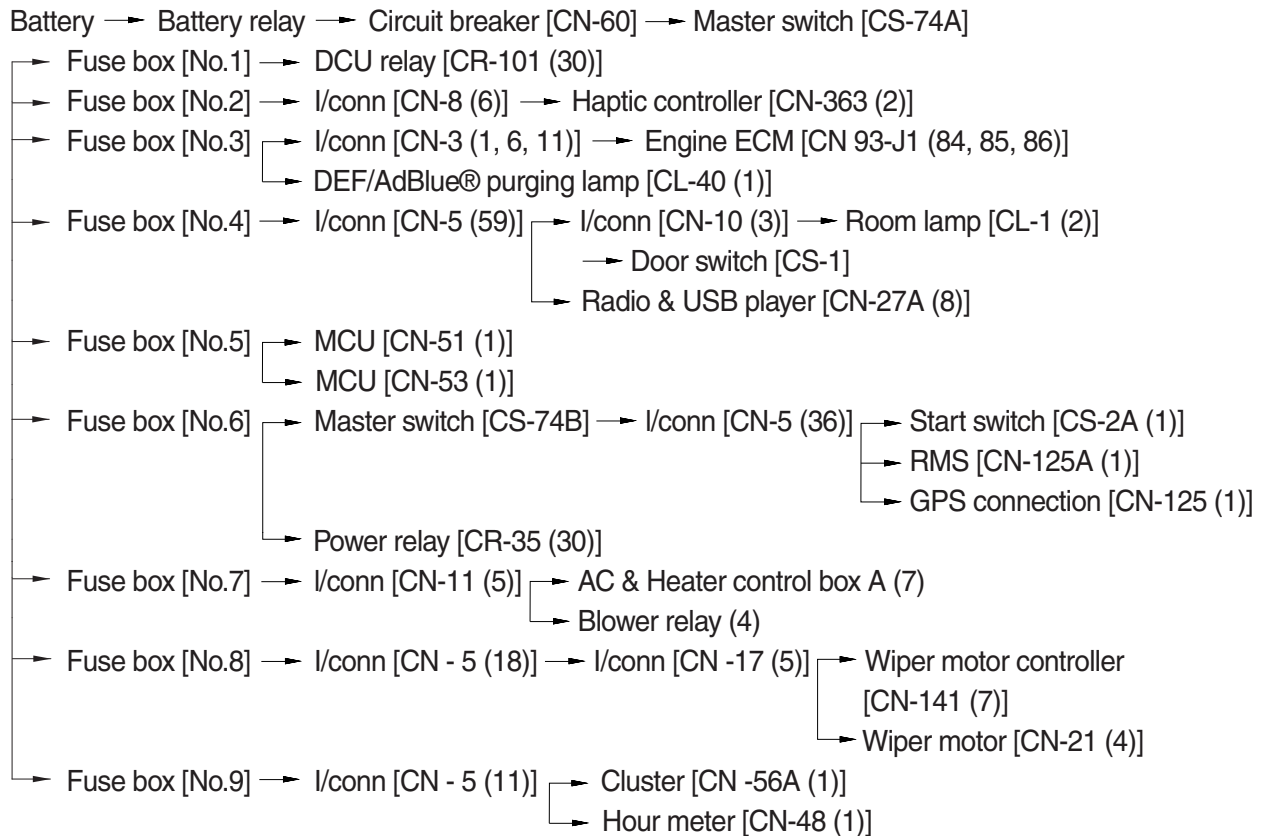
MEMORANDUM

1. POWER CIRCUIT (SERIAL NO. : -#0610)

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
OFF	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

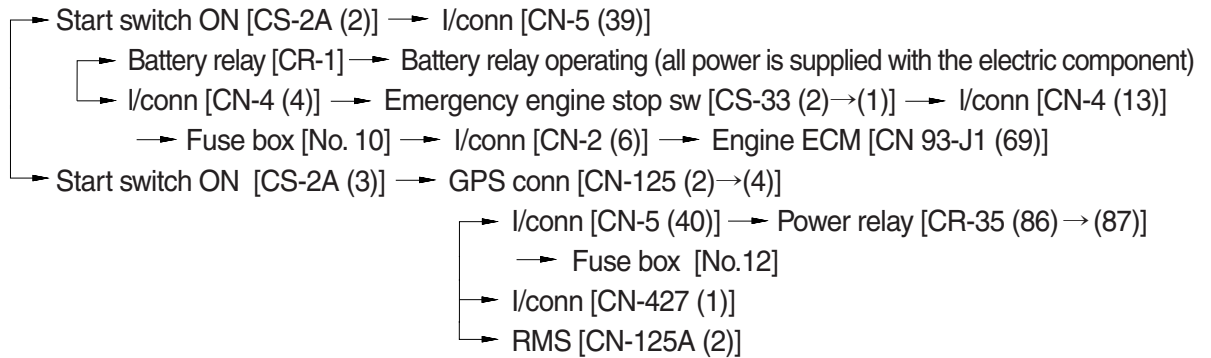
※ GND : Ground

2. STARTING CIRCUIT (SERIAL NO. : -#0610)

1) OPERATING FLOW

Battery(+) terminal → Battery relay [CR-1] → Circuit breaker [CN-60] → Master switch [CS-74A]
 → Fuse box [No.6] → Master switch [CS-74B] → I/conn [CN-5(36)] → Start switch [CS-2A (1)]

(1) When start key switch is in ON position



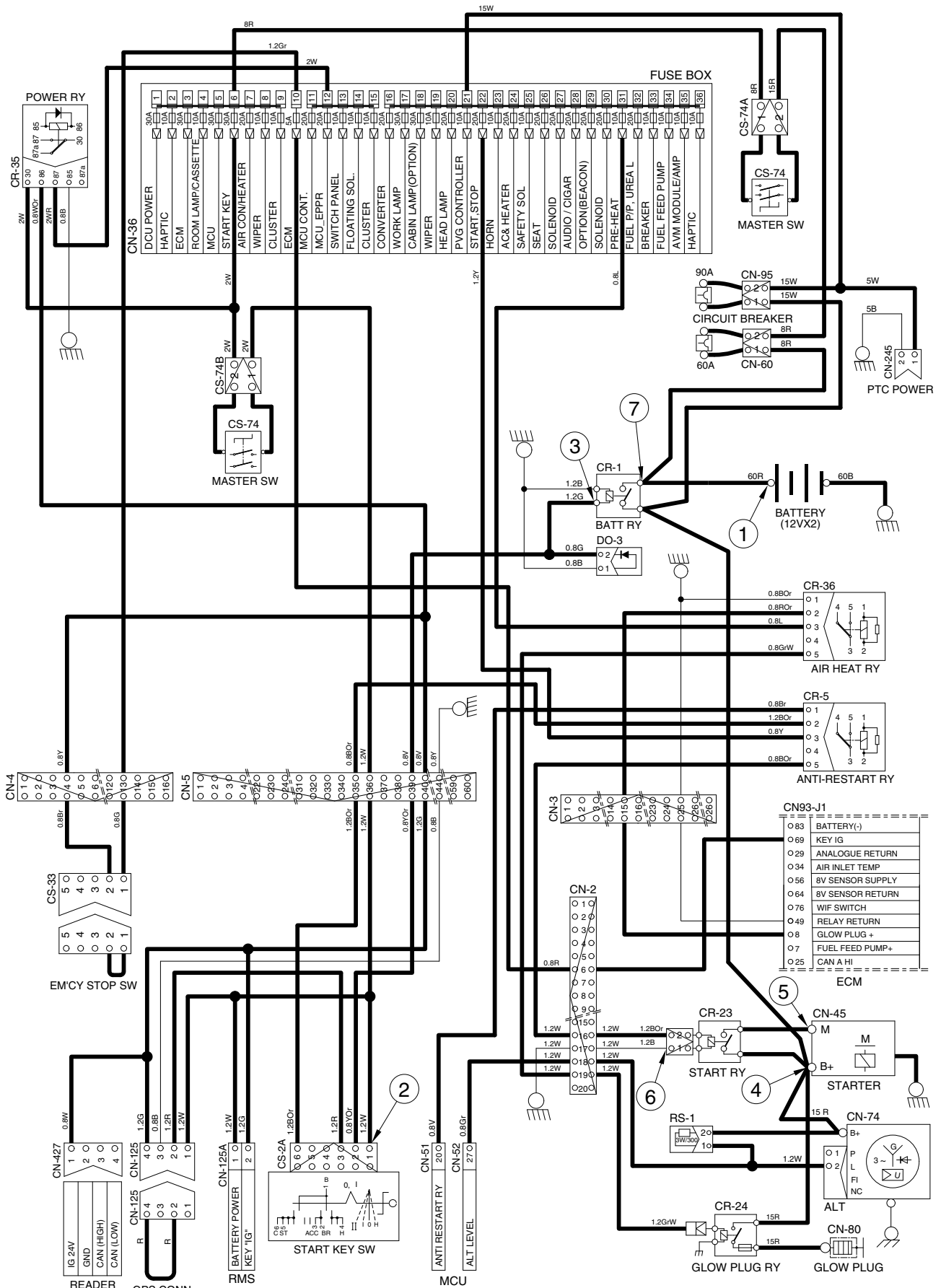
(2) When start key switch is in START position

Start switch START [CS-2A (6)] → I/conn [CN-5 (35)] → Anti-restart relay [CR-5 (2)→(5)]
 → I/conn [CN-2 (16)] → Start relay [CR-23 (2)] → Starter motor operating

2) CHECK POINT

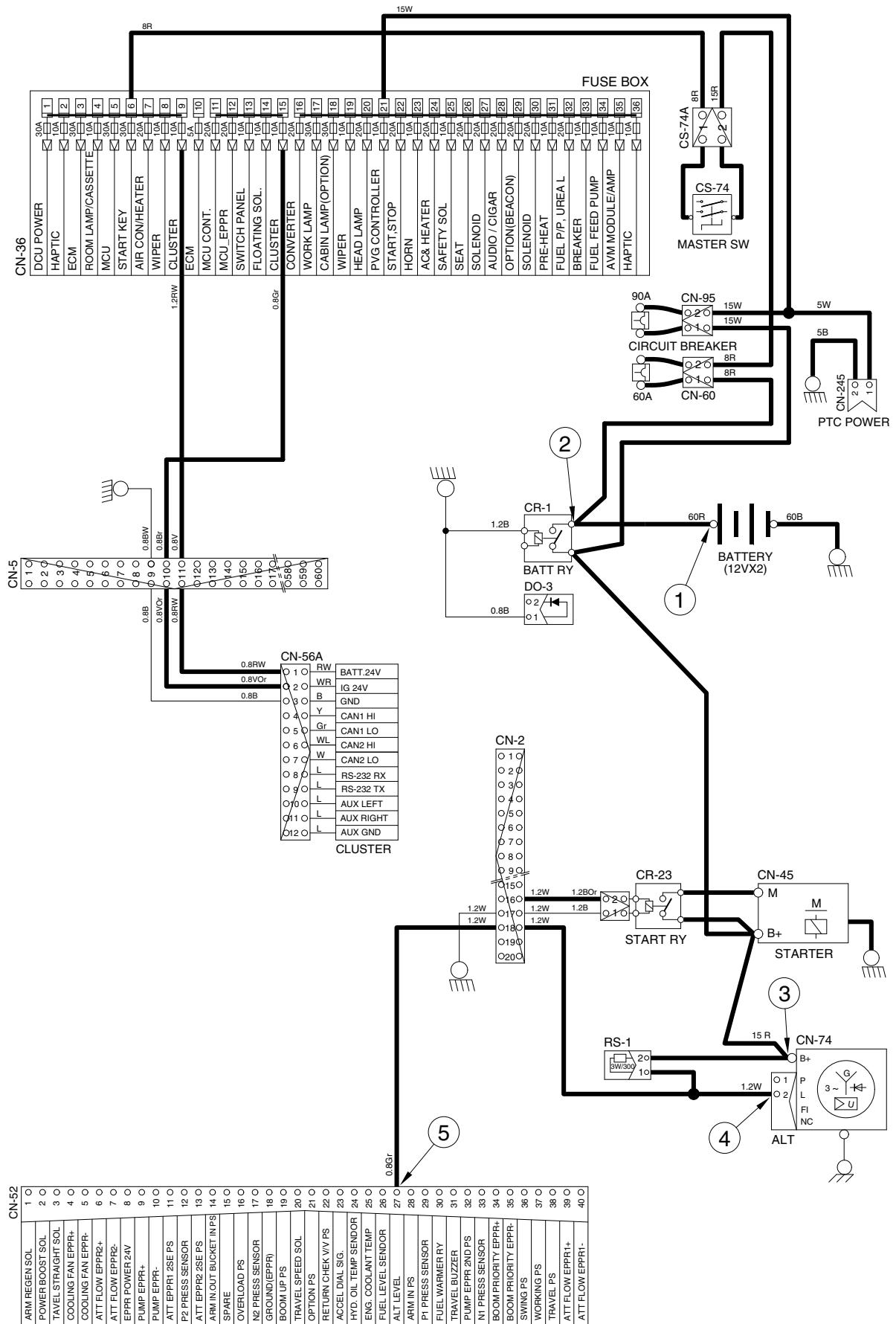
Engine	Start switch	Check point	Voltage
OPERATING	START	① - GND (battery) ② - GND (start key) ③ - GND (battery relay M4) ④ - GND (starter B+) ⑤ - GND (starter M) ⑥ - GND (start relay) ⑦ - GND (battery relay M8)	20~25V

STARTING CIRCUIT (SERIAL NO. : #0610)



140L4EL06

CHARGING CIRCUIT (SERIAL NO. : #0610)



MCU

140L4EL07

4. HEAD AND WORK LIGHT CIRCUIT (SERIAL NO. : -#0610)

1) OPERATING FLOW

Fuse box (No.20) → Head light relay [CR-13 (30, 86)]

Fuse box (No.17) → Work light relay [CR-4 (30, 86)]

(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), CL-24 (2)]

→ I/conn [CN-7 (1)] → Cigar light [CL-2]

→ I/conn [CN-5 (60)] → Radio & USB player illumination ON [CN-27A (9)]

(2) Work light switch ON

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

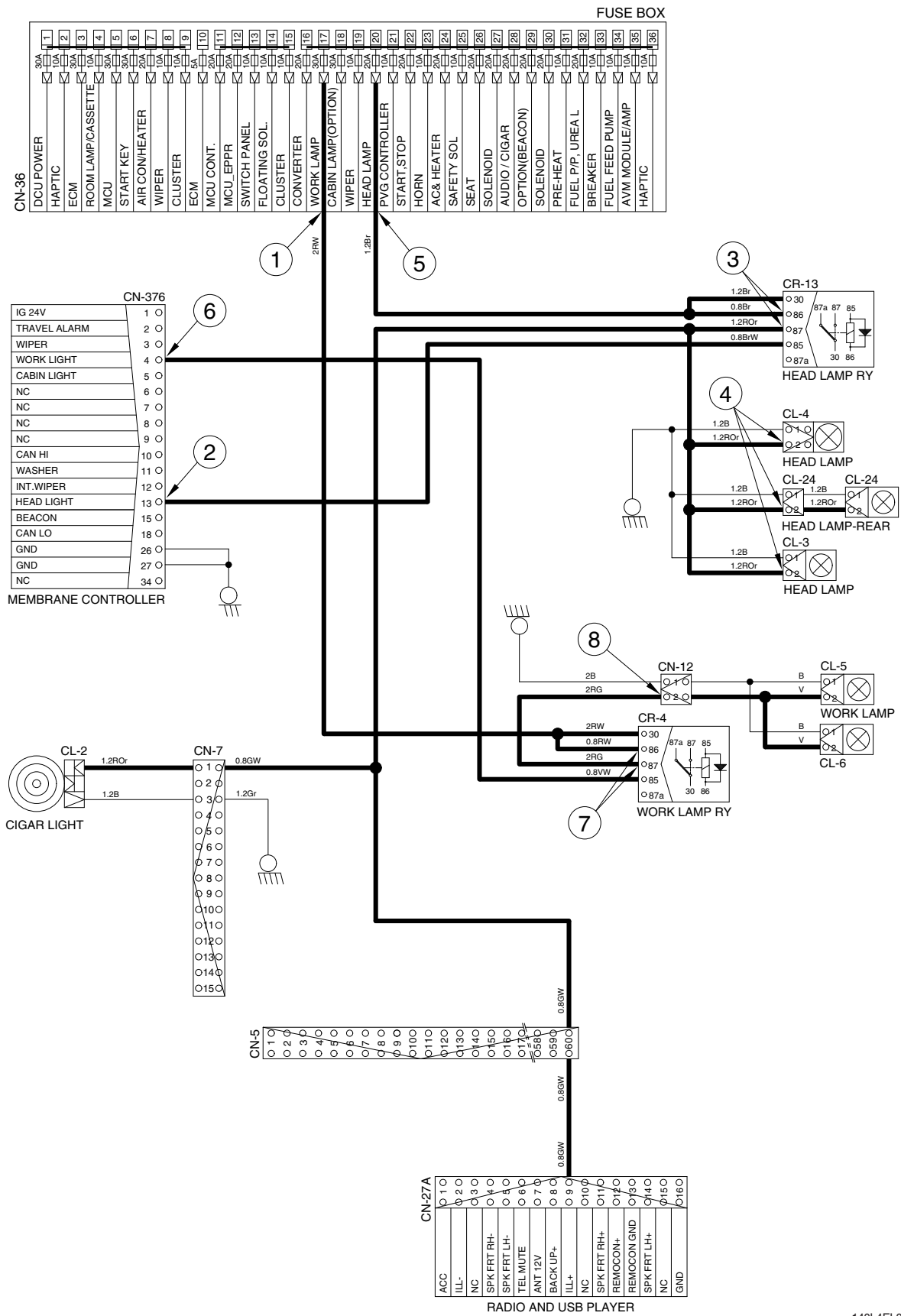
→ I/conn [CN-12 (2)] → Work light ON [CL-5 (2), CL-6 (2)]

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 (SERIAL NO.: #0610)



5. BEACON LAMP AND CAB LIGHT CIRCUIT (SERIAL NO. : -#0610)

1) OPERATING FLOW

Fuse box (No.29) → Beacon lamp relay [CR-85 (2, 3)]

Fuse box (No.18) → Cab light relay [CR-9 (30, 86)]

(1) Beacon lamp switch ON

Beacon lamp switch ON [CN-376 (15)] → Beacon lamp relay [CR-85 (1)→ (5)]

→ 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 (11)] → Cab light ON [CL-8 (2)]

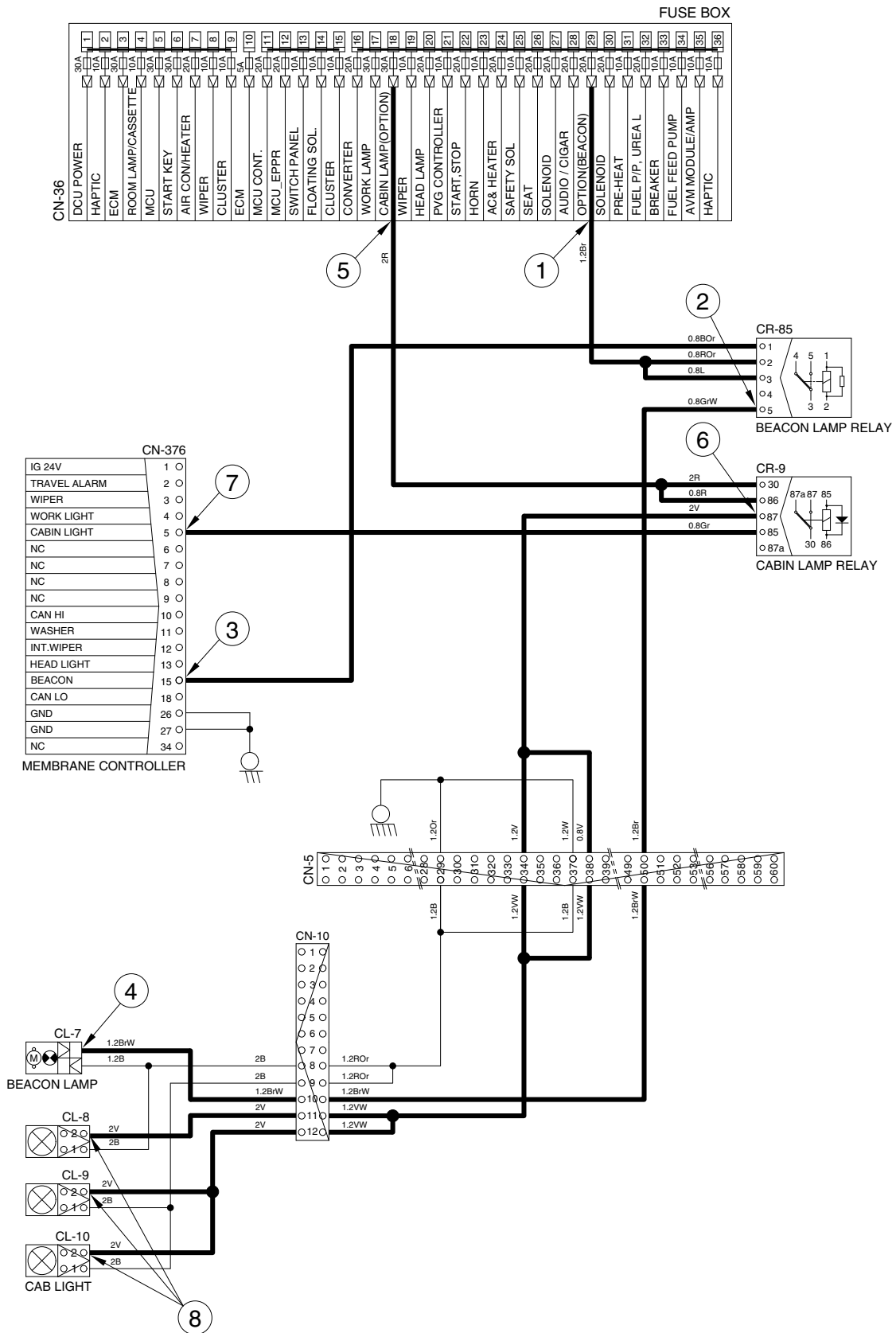
→ I/conn [CN-10 (12)] → Cab light ON [CL-9 (2), CL-10 (2)]

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 (cabin light relay) ⑦ - GND (cab light switch power output) ⑧ - GND (cab light)	20~25V

※ GND : Ground

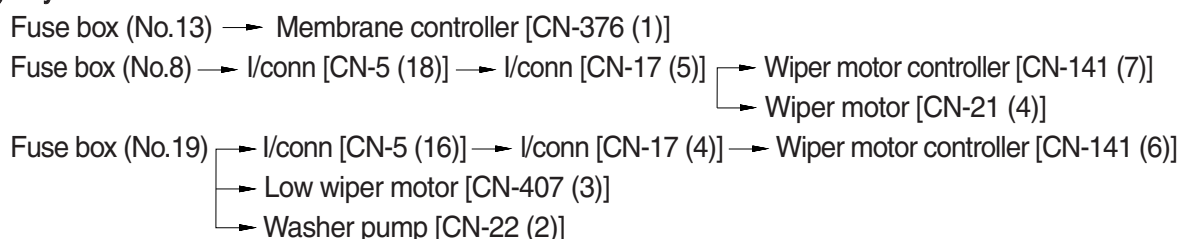
BEACON LAMP AND CAB LIGHT CIRCUIT (SERIAL NO. : -#0610)



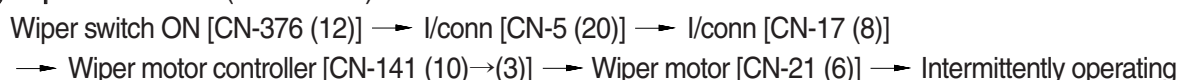
6. WIPER AND WASHER CIRCUIT (SERIAL NO. : -#0610)

1) OPERATING FLOW

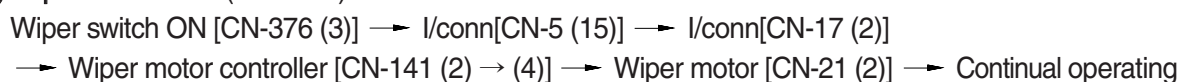
(1) Key switch ON



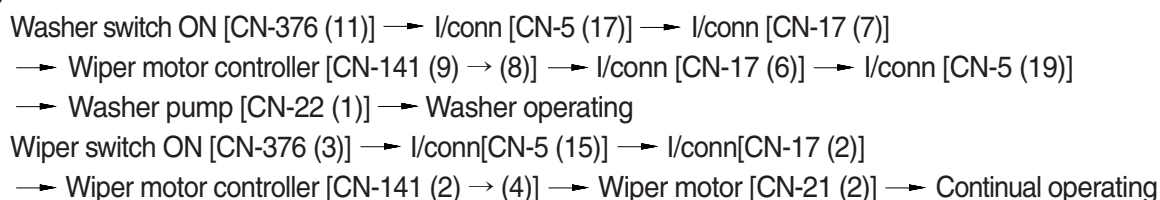
(2) Wiper switch ON (Intermittent)



(3) Wiper switch ON (continual)



(4) Washer switch ON

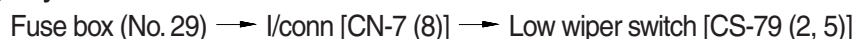


(5) Auto parking (when switch OFF)

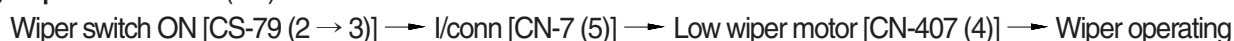


2) OPERATING FLOW (LOW WIPER)

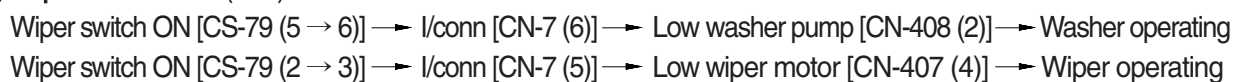
(1) Key switch ON



(2) Wiper switch ON (1st)



(3) Wiper switch ON (2nd)

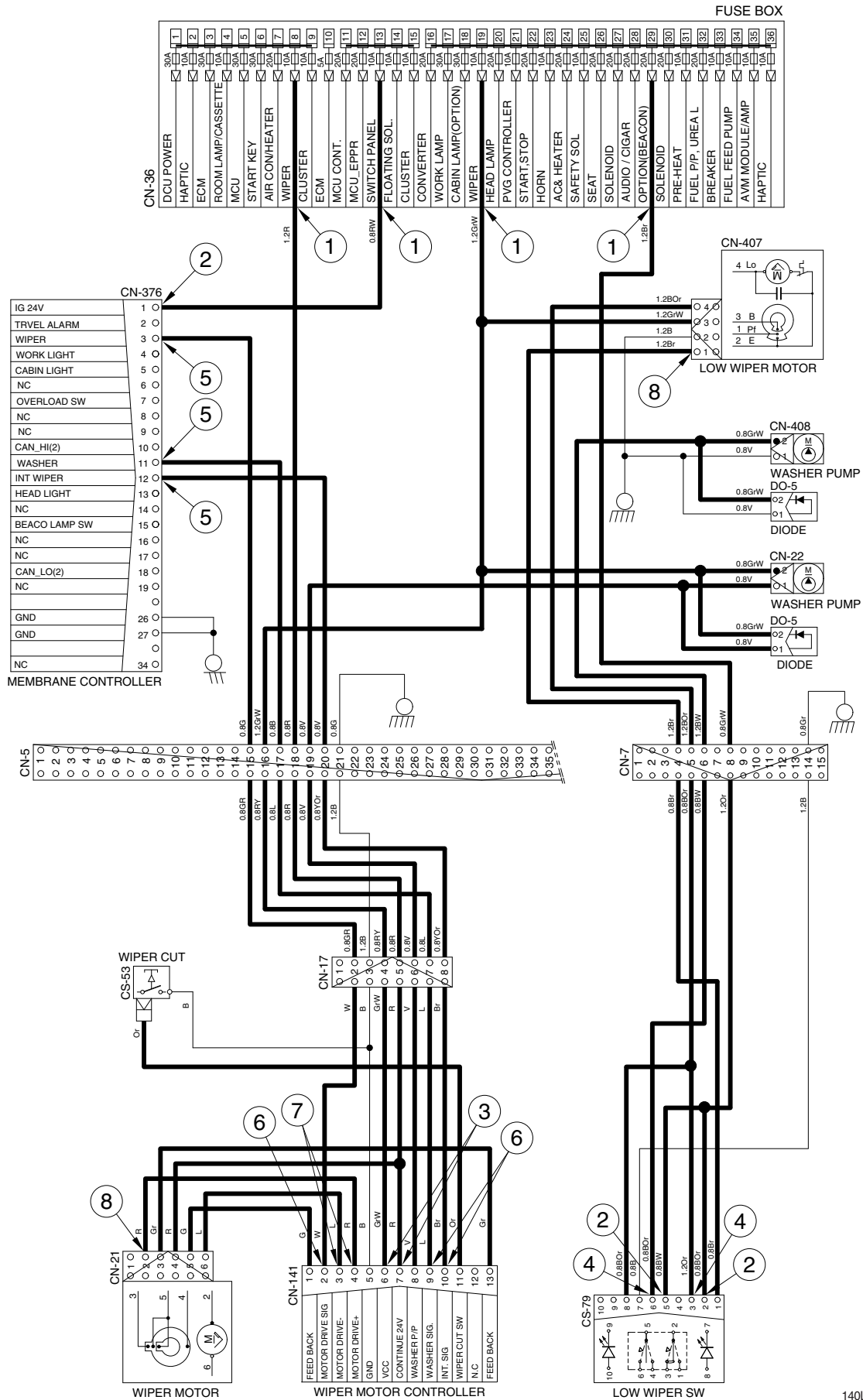


3) CHECK POINT

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)	
		⑤ - GND (switch power output)	0 ~ 5V
		⑥ - GND (wiper power input)	
		⑦ - GND (wiper power output)	
		⑧ - GND (wiper motor)	
			0 or 24V

※ GND : Ground

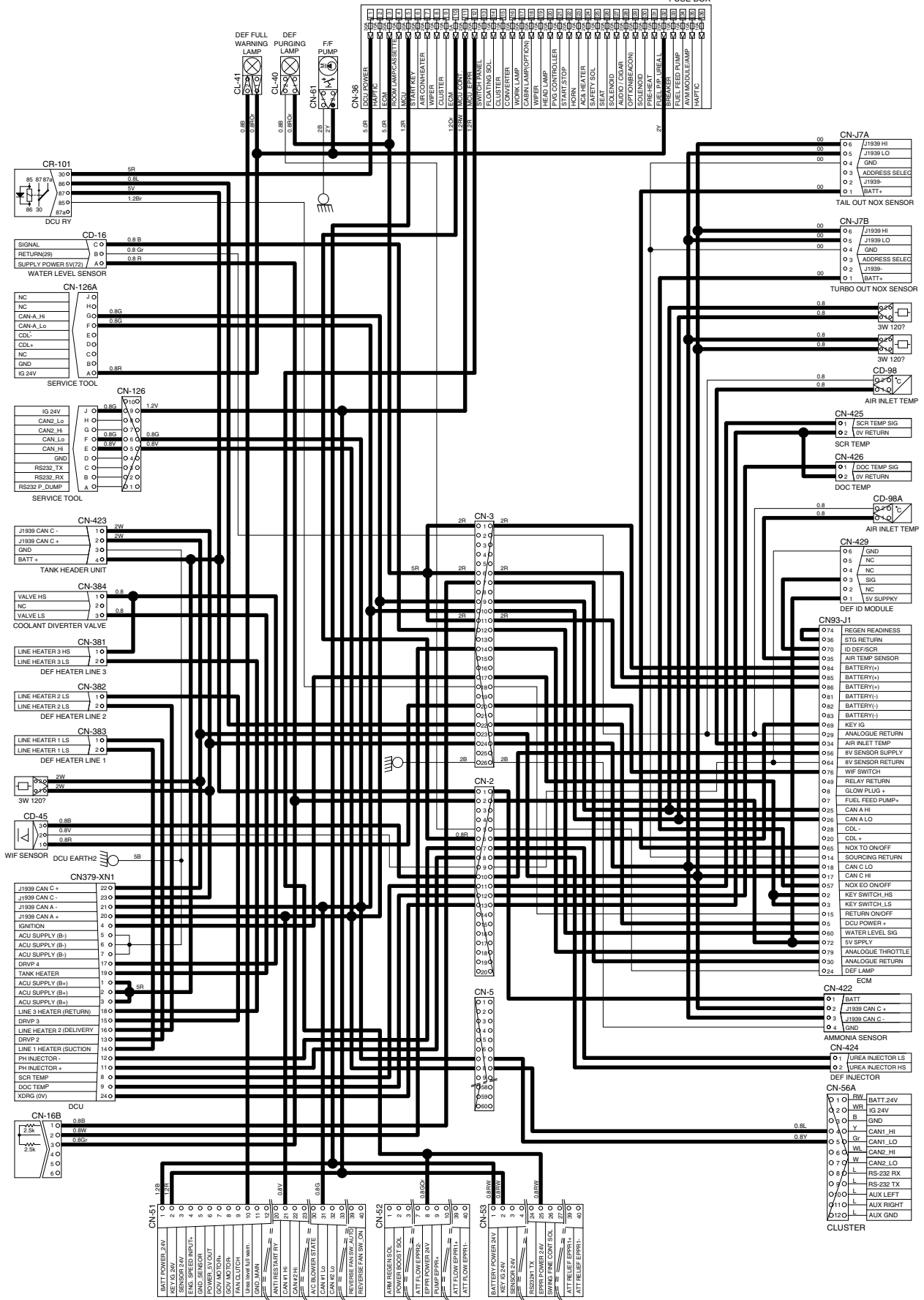
WIPER AND WASHER CIRCUIT (SERIAL NO. : -#0610)



140L4EL10

CONTROLLER CIRCUIT (SERIAL NO. : -#0610)

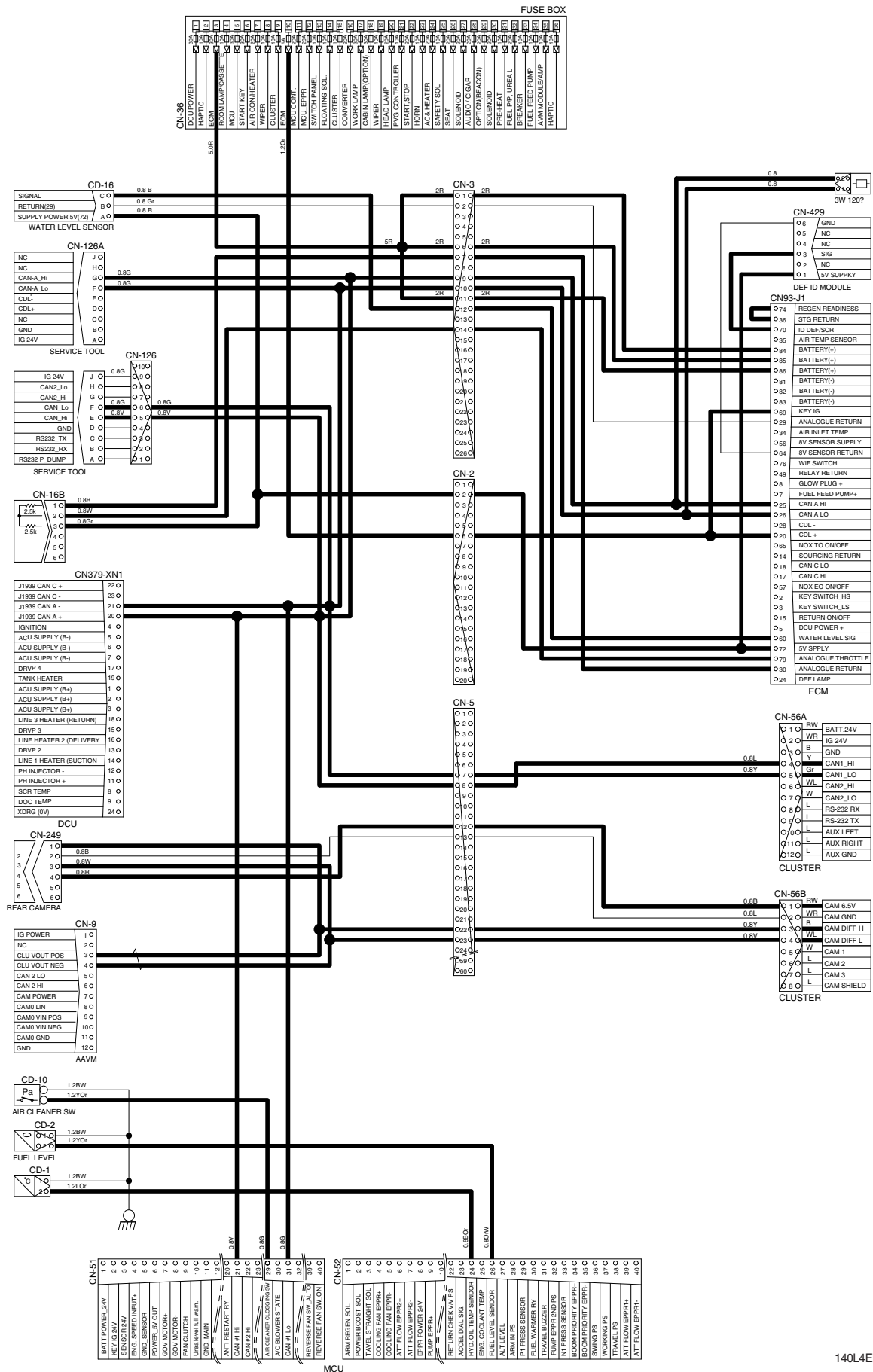
FUSE BOX



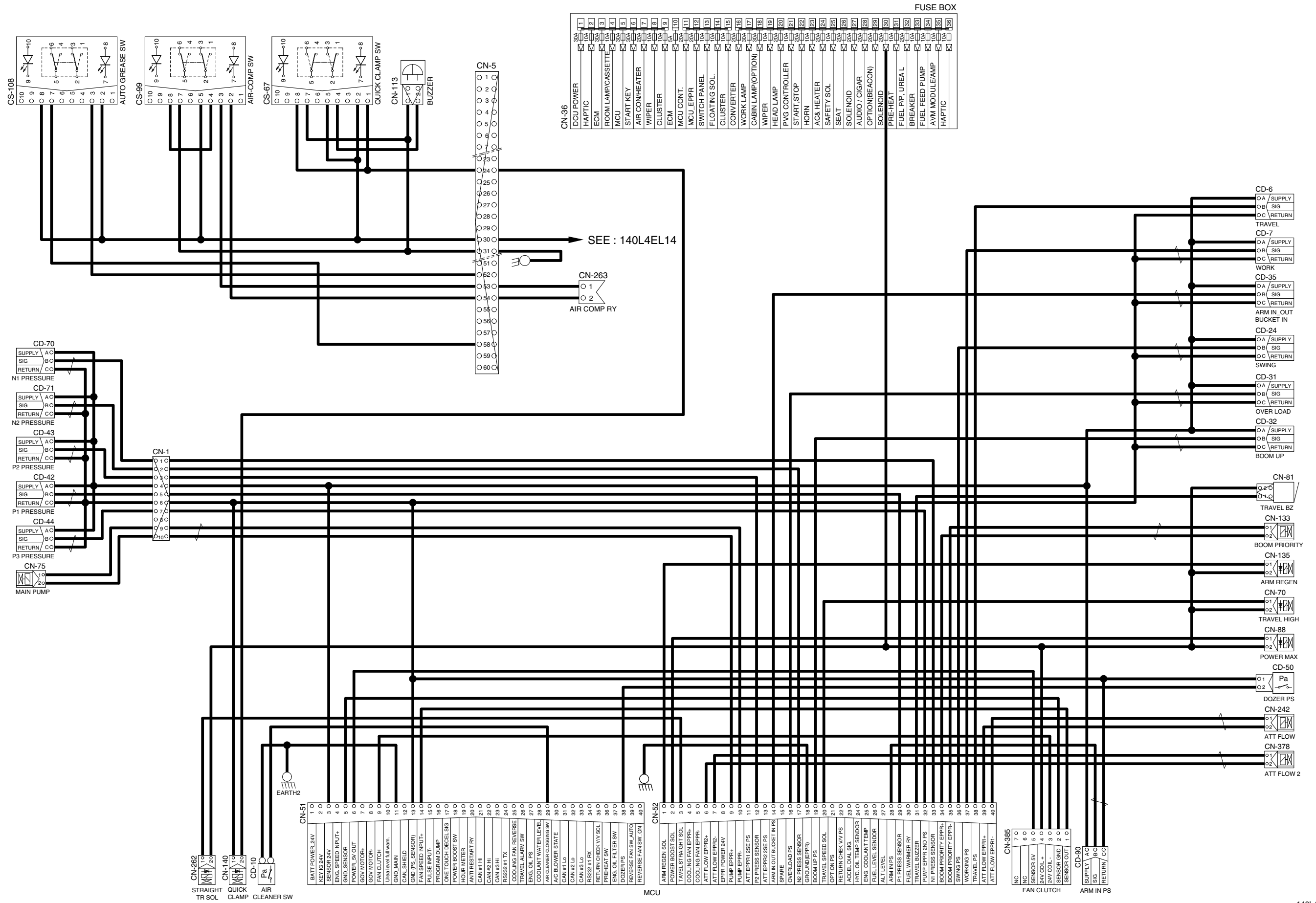
MCU

140L4EL11

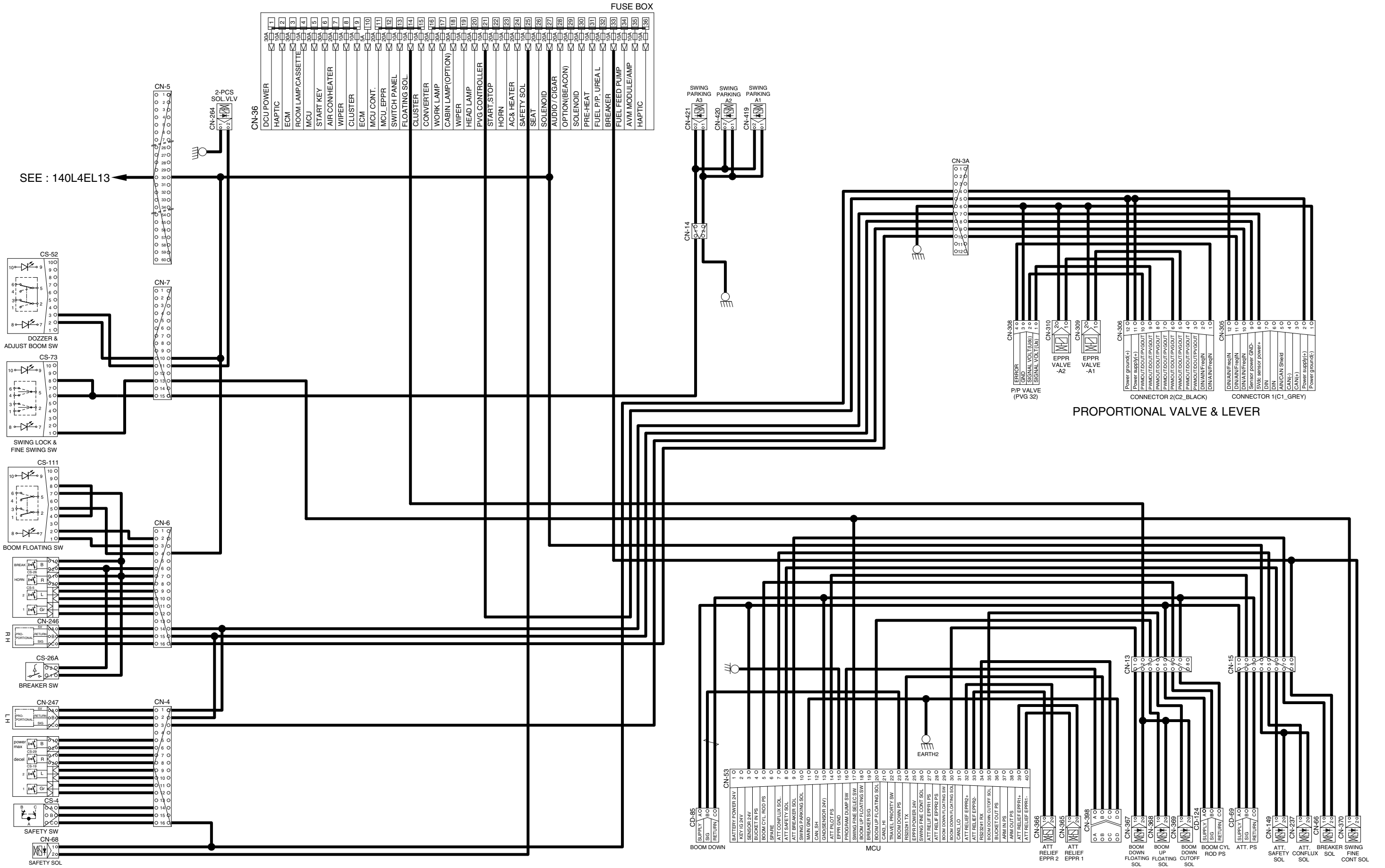
MONITORING CIRCUIT (SERIAL NO. : -#0610)



ELECTRIC CIRCUIT FOR HYDRAULIC (1/2, SERIAL NO. : -#0610)



ELECTRIC CIRCUIT FOR HYDRAULIC (2/2, SERIAL NO. : -#0610)

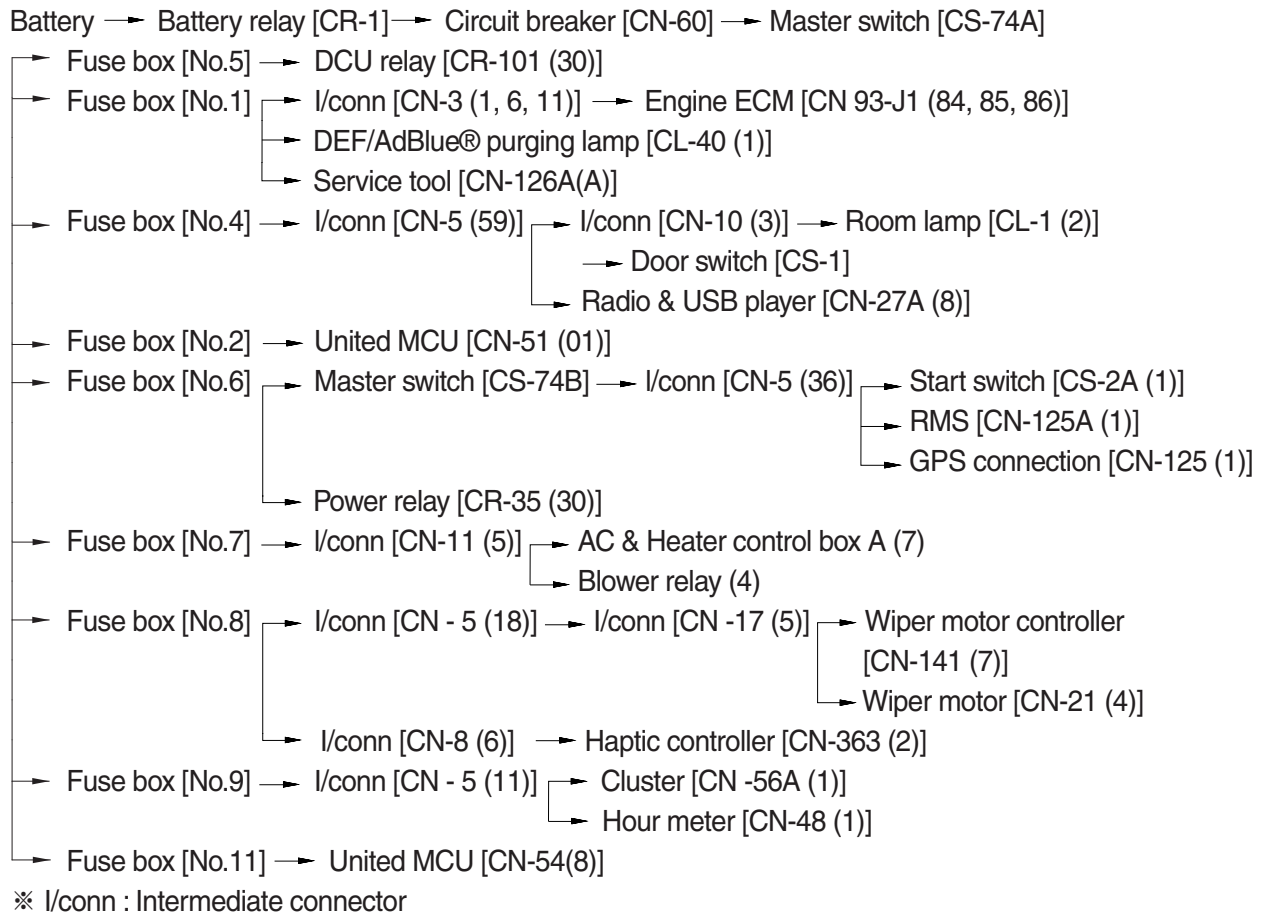


1. POWER CIRCUIT (SERIAL NO. : #0611-)

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

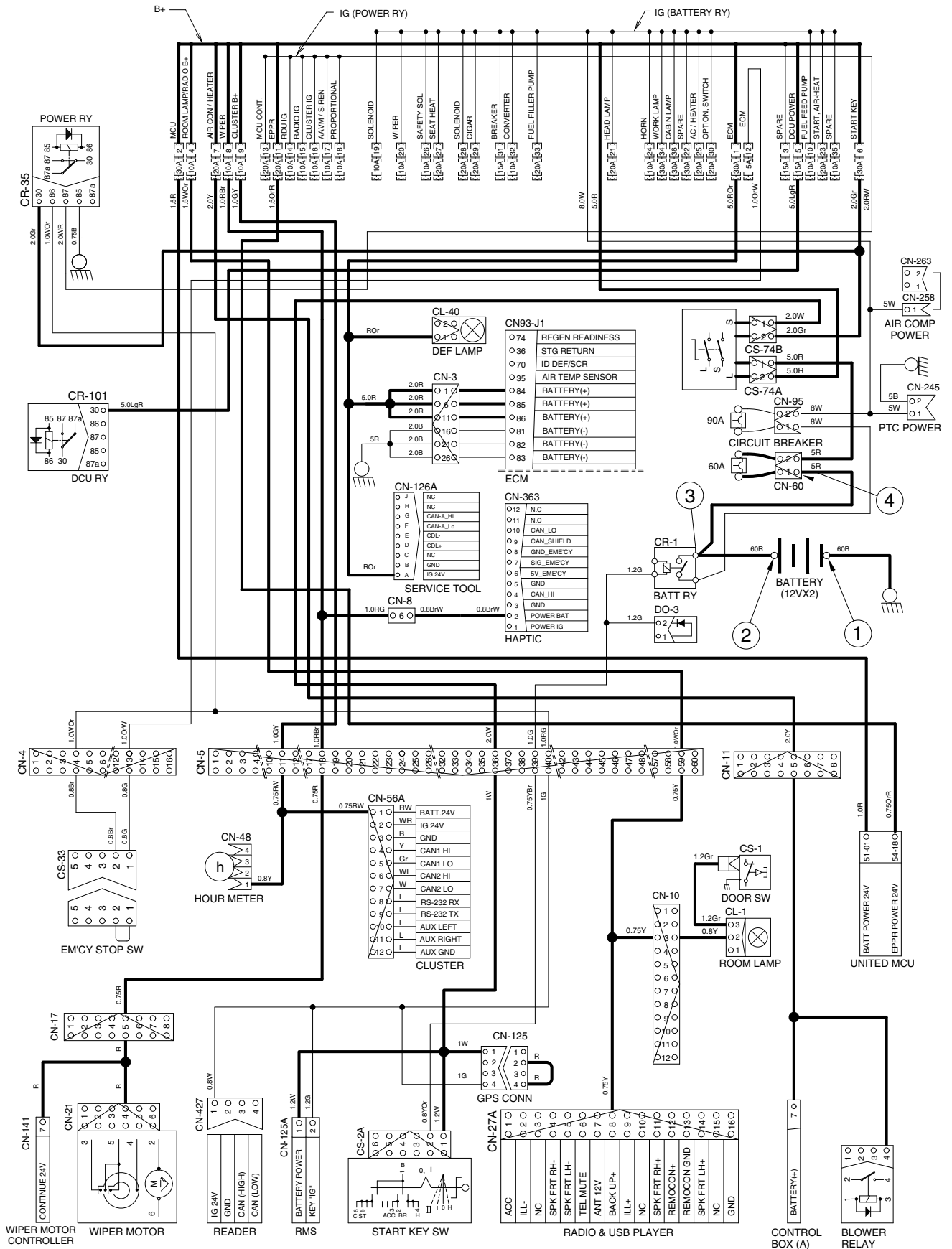


2) CHECK POINT

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

POWER CIRCUIT (SERIAL NO. : #0611-)



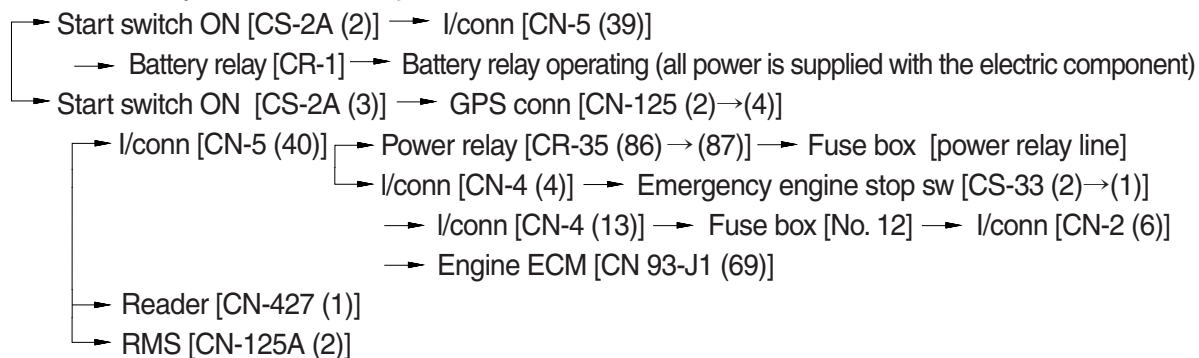
140L4EL105

2. STARTING CIRCUIT (SERIAL NO. : #0611-)

1) OPERATING FLOW

Battery (+) terminal → Battery relay [CR-1] → Circuit breaker [CN-60] → Master switch [CS-74A]
 → Fuse box [No.6] → Master switch [CS-74B] → I/conn [CN-5 (36)] → Start switch [CS-2A (1)]

(1) When start key switch is in ON position



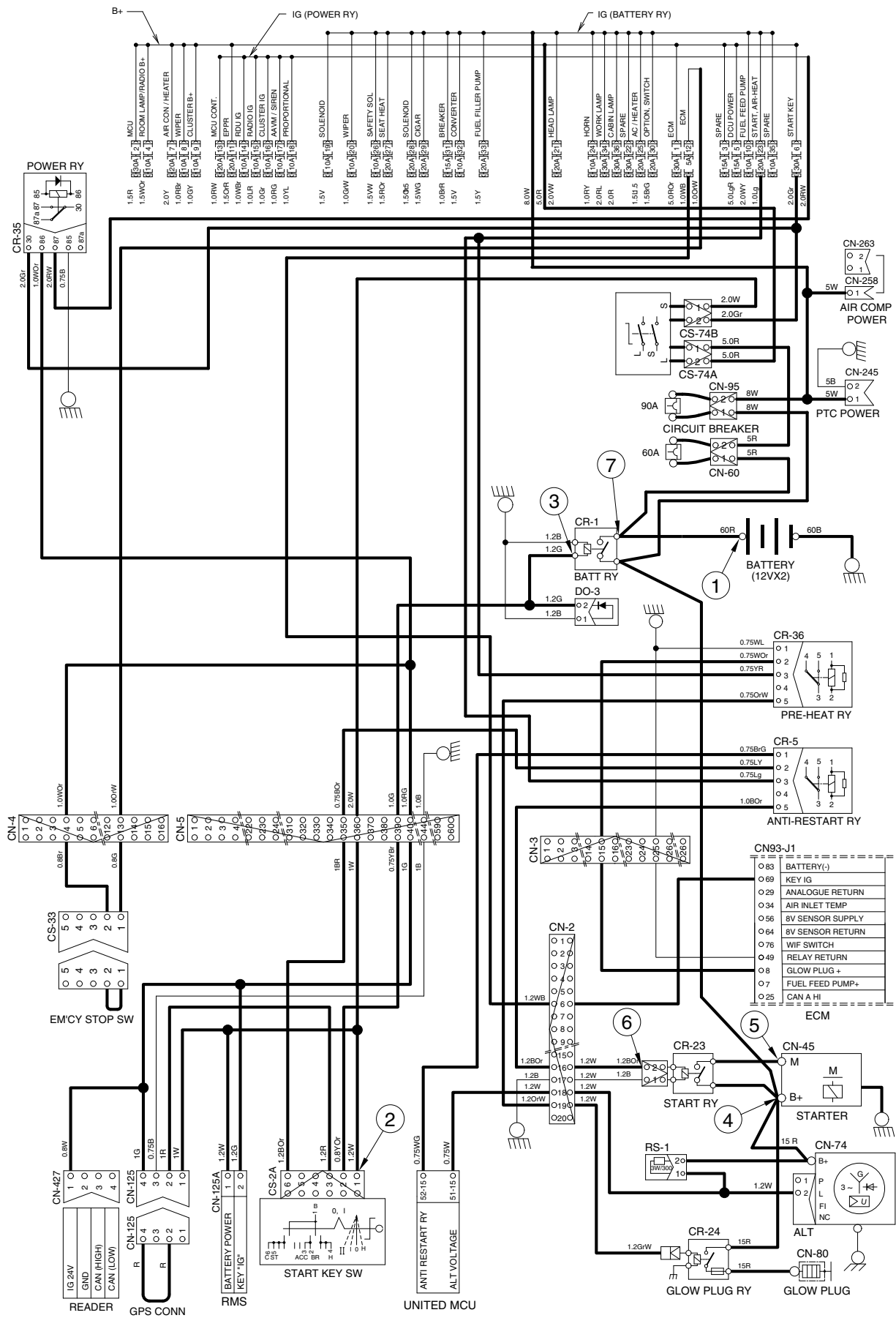
(2) When start key switch is in START position

Start switch START [CS-2A (6)] → I/conn [CN-5 (35)] → Anti-restart relay [CR-5 (2) → (5)]
 → I/conn [CN-2 (16)] → Start relay [CR-23 (2)] → Starter motor operating

2) CHECK POINT

Engine	Start switch	Check point	Voltage
OPERATING	START	① - GND (battery) ② - GND (start key) ③ - GND (battery relay M4) ④ - GND (starter B ⁺) ⑤ - GND (starter M) ⑥ - GND (start relay) ⑦ - GND (battery relay M8)	20~25V

STARTING CIRCUIT (SERIAL NO. : #0611-)



140L4EL106

3. CHARGING CIRCUIT (SERIAL NO.: #0611-)

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

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

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

1) OPERATING FLOW

(1) Warning flow

Alternator [CN-74 (2)] → I/conn [CN-2 (18)] → United MCU alternator voltage [CN-51 (15)]
 → Cluster charging warning lamp (Via CAN interface)

(2) Charging flow

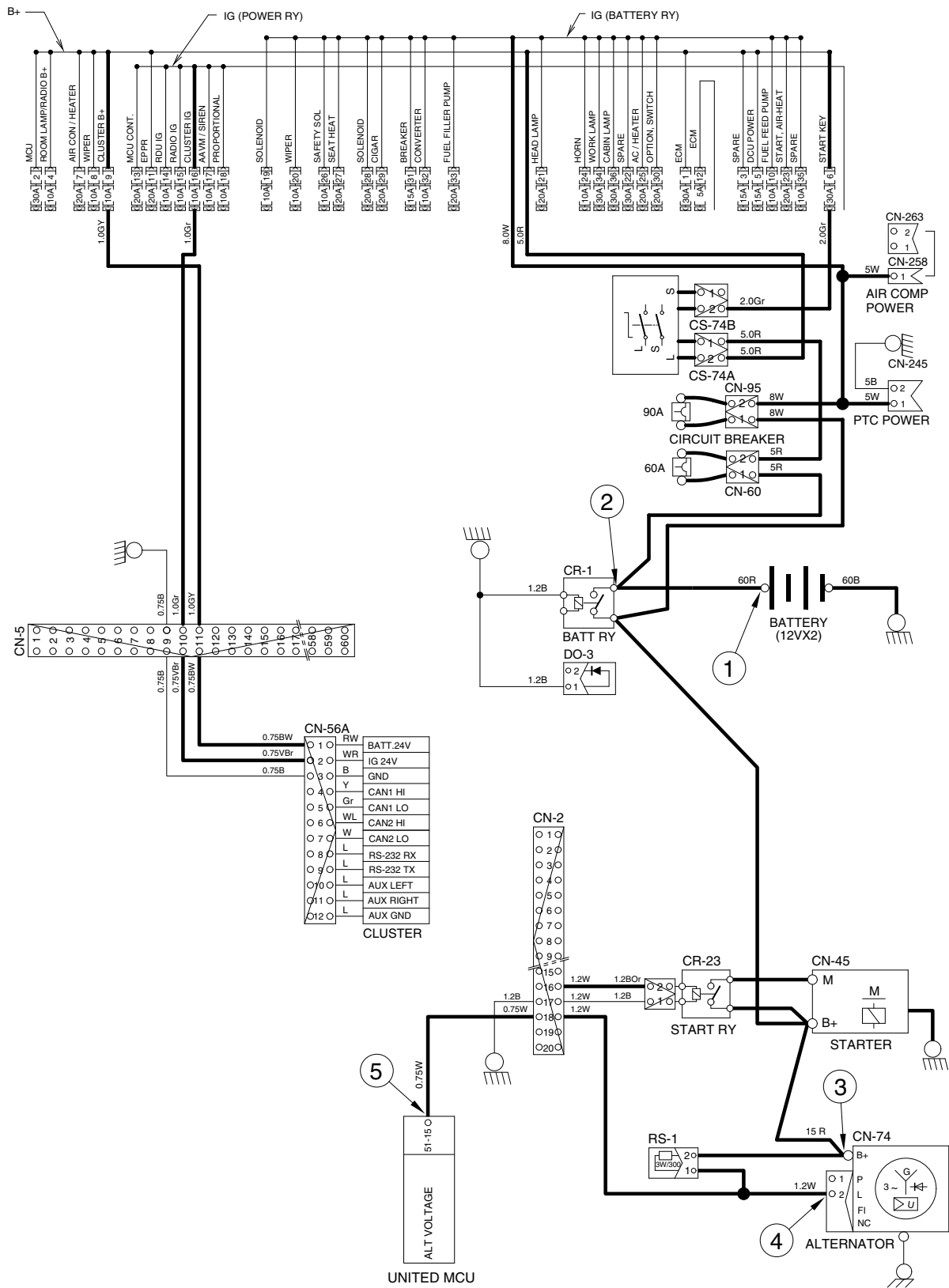
Alternator "B+" terminal → Starter motor [CN-45 (B+)]
 → Battery relay (M8) → Battery (+) terminal
 → Circuit breaker [CN-60] → Master switch [CS-74A]
 → Fuse box
 → Circuit breaker [CN-95] → Fuse box

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 2 terminal) ⑤ - GND (united MCU)	20~25V

※ GND : Ground

CHARGING CIRCUIT (SERIAL NO. : #0611-)



4. HEAD AND WORK LIGHT CIRCUIT (SERIAL NO.: #0611-)

1) OPERATING FLOW

Fuse box (No.21) → Head light relay [CR-13 (30, 86)]

Fuse box (No.34) → Work light relay [CR-4 (30, 86)]

Fuse box (No.14) → RDU 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 (1), CL-4 (1), CL-24 (1)]

→ I/conn [CN-7 (1)] → Cigar light [CL-2]

→ I/conn [CN-5 (60)] → Radio & USB player illumination ON [CN-27A (9)]

(2) Work light switch ON

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

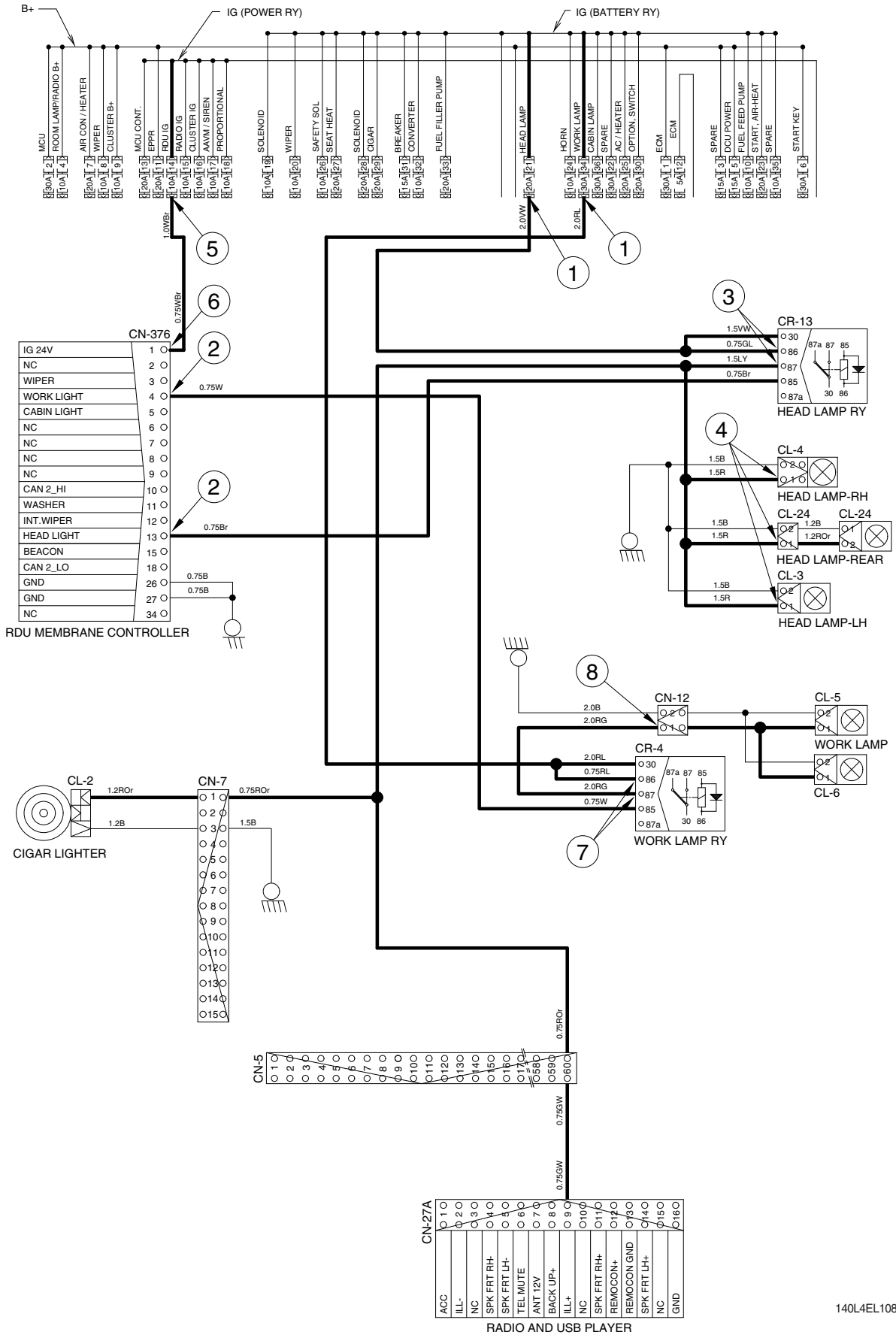
→ I/conn [CN-12 (1)] → Work light ON [CL-5 (1), CL-6 (1)]

2) CHECK POINT

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

※ GND : Ground

HEAD AND WORK LIGHT CIRCUIT (SERIAL NO.: #0611-)



140L4EL108

5. BEACON LAMP AND CAB LIGHT CIRCUIT (SERIAL NO. : #0611-)

1) OPERATING FLOW

Fuse box (No.30) → Beacon lamp relay [CR-85 (2, 3)]

Fuse box (No.36) → Cab light relay [CR-9 (30, 86)]

Fuse box (No.14) → RDU membrane controller [CR-376 (1)]

(1) Beacon lamp switch ON

Beacon lamp switch ON [CN-376 (15)] → Beacon lamp relay [CR-85 (1)→ (5)]

→ 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 (11)] → Cab light ON [CL-8 (2)]

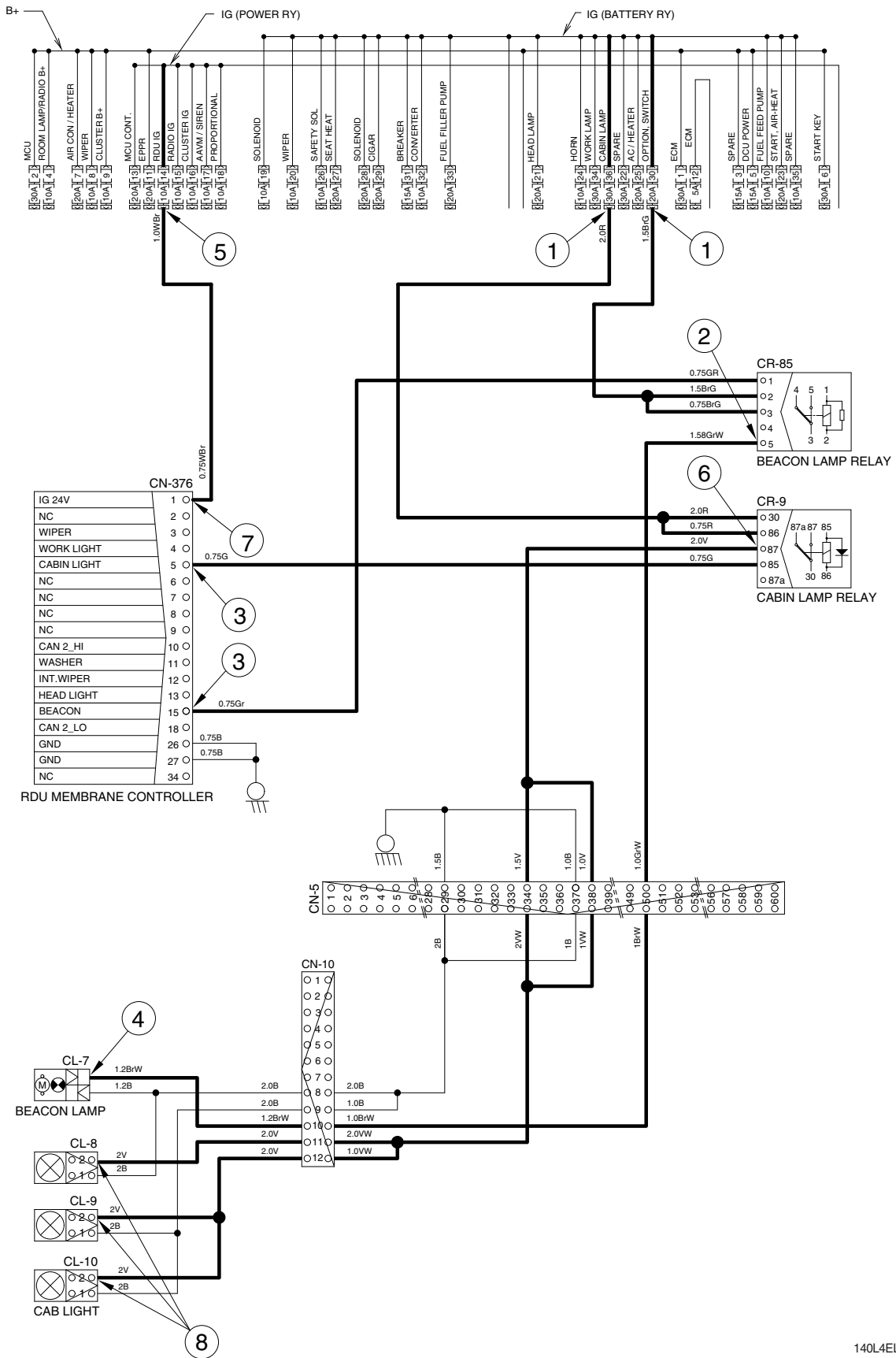
→ I/conn [CN-10 (12)] → Cab light ON [CL-9 (2), CL-10 (2)]

2) CHECK POINT

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

※ GND : Ground

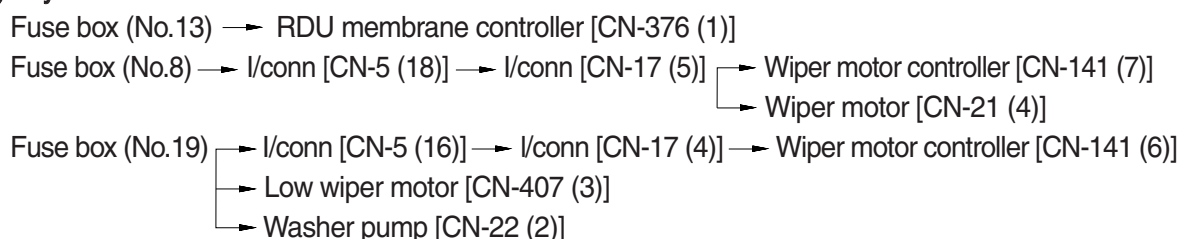
BEACON LAMP AND CAB LIGHT CIRCUIT (SERIAL NO. : #0611-)



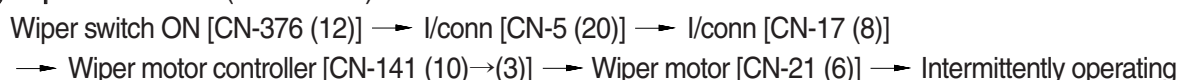
6. WIPER AND WASHER CIRCUIT (SERIAL NO. : #0611-)

1) OPERATING FLOW

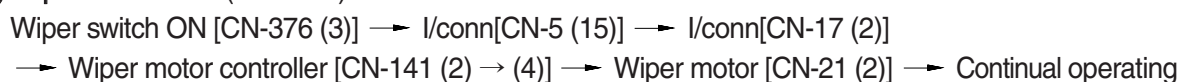
(1) Key switch ON



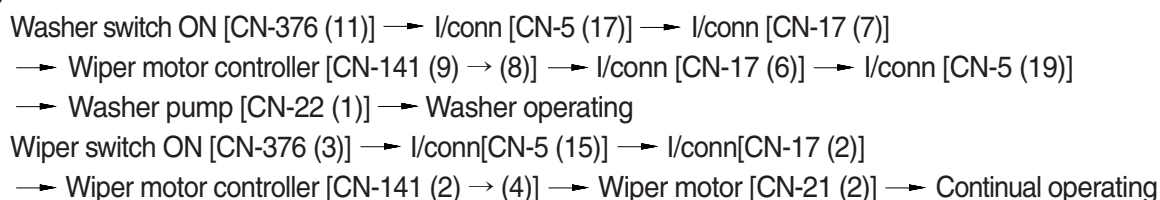
(2) Wiper switch ON (Intermittent)



(3) Wiper switch ON (continual)



(4) Washer switch ON



(5) Auto parking (when switch OFF)

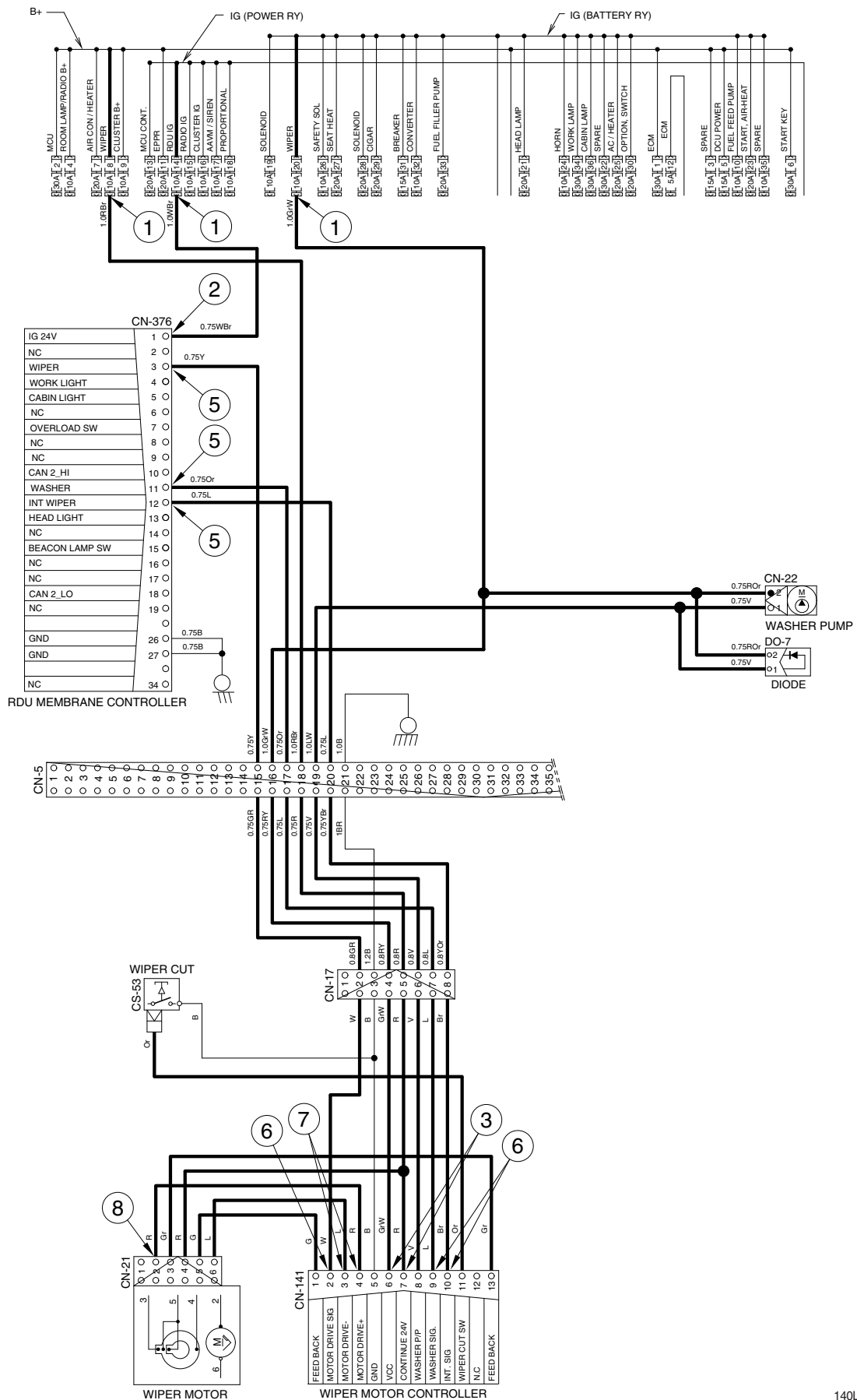


2) CHECK POINT

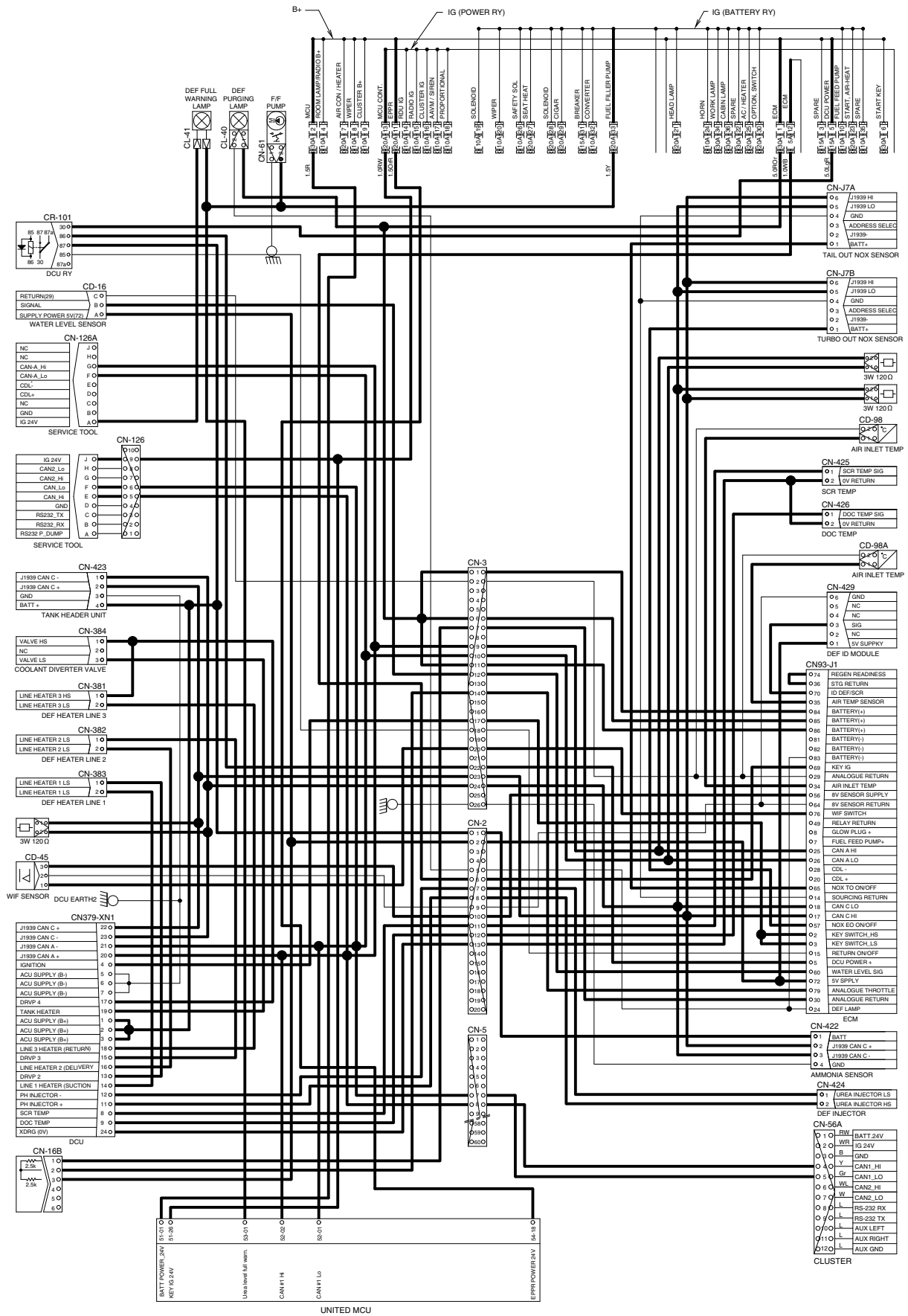
Engine	Start switch	Check point	Voltage
STOP	ON	① - GND (fuse box)	20~25V
		② - GND (switch power input)	
		③ - GND (wiper power input)	
		⑤ - GND (switch power output)	0 ~ 5V
		⑥ - GND (wiper power input)	
		⑦ - GND (wiper power output)	
		⑧ - GND (wiper motor)	
	0 or 24V		

※ GND : Ground

WIPER AND WASHER CIRCUIT (SERIAL NO. : #0611-)

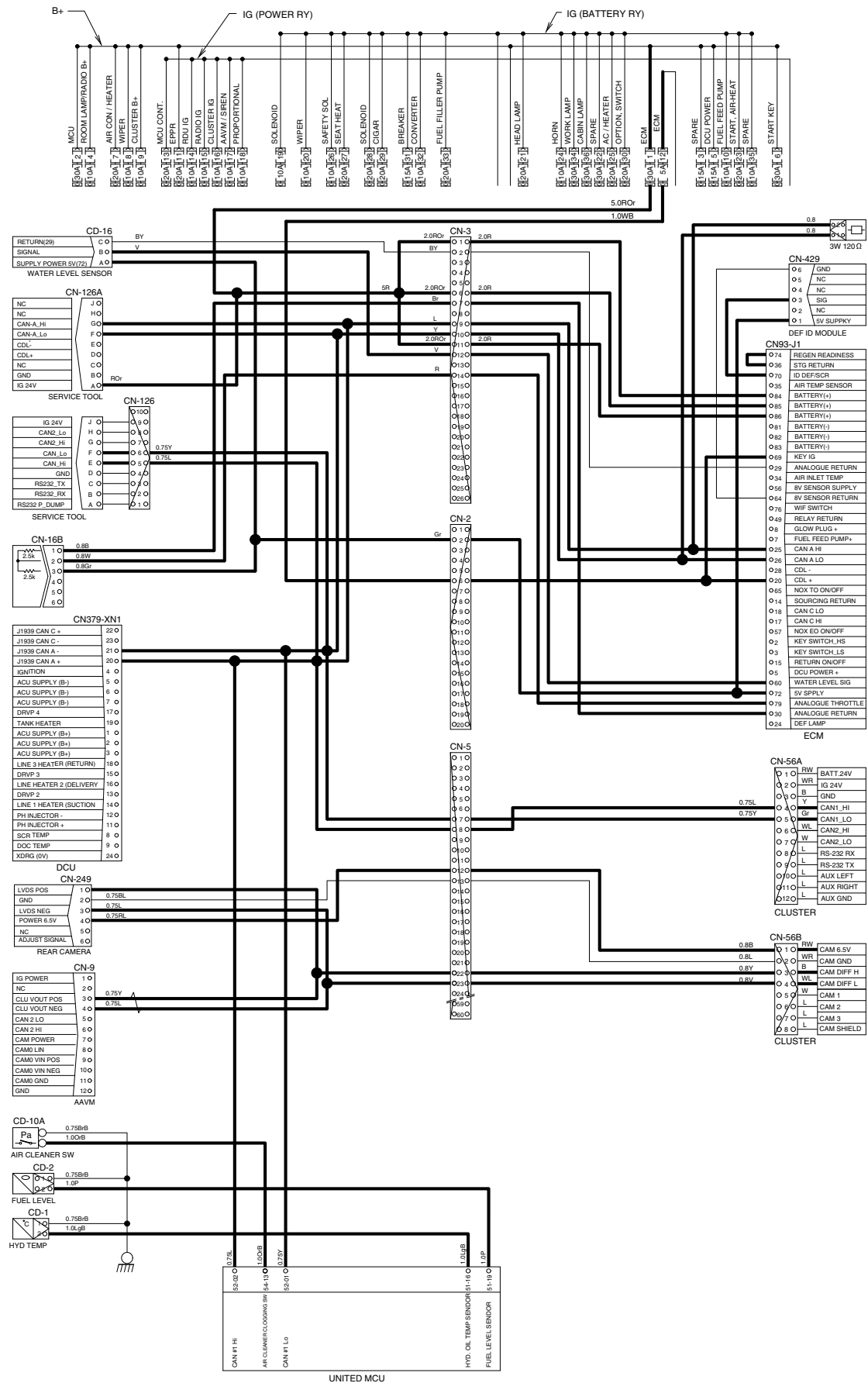


CONTROLLER CIRCUIT (SERIAL NO. : #0611-)

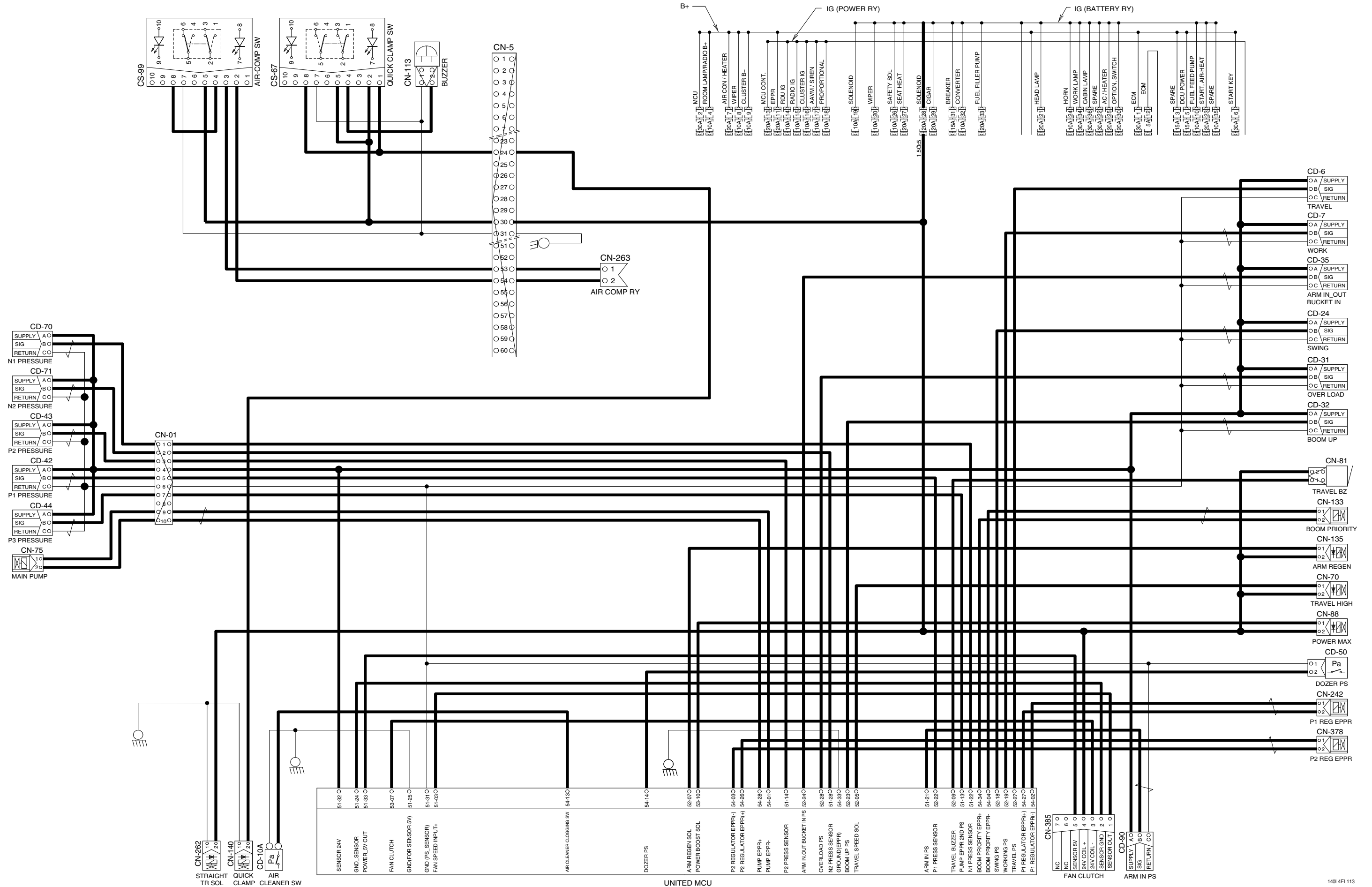


140L4EL111

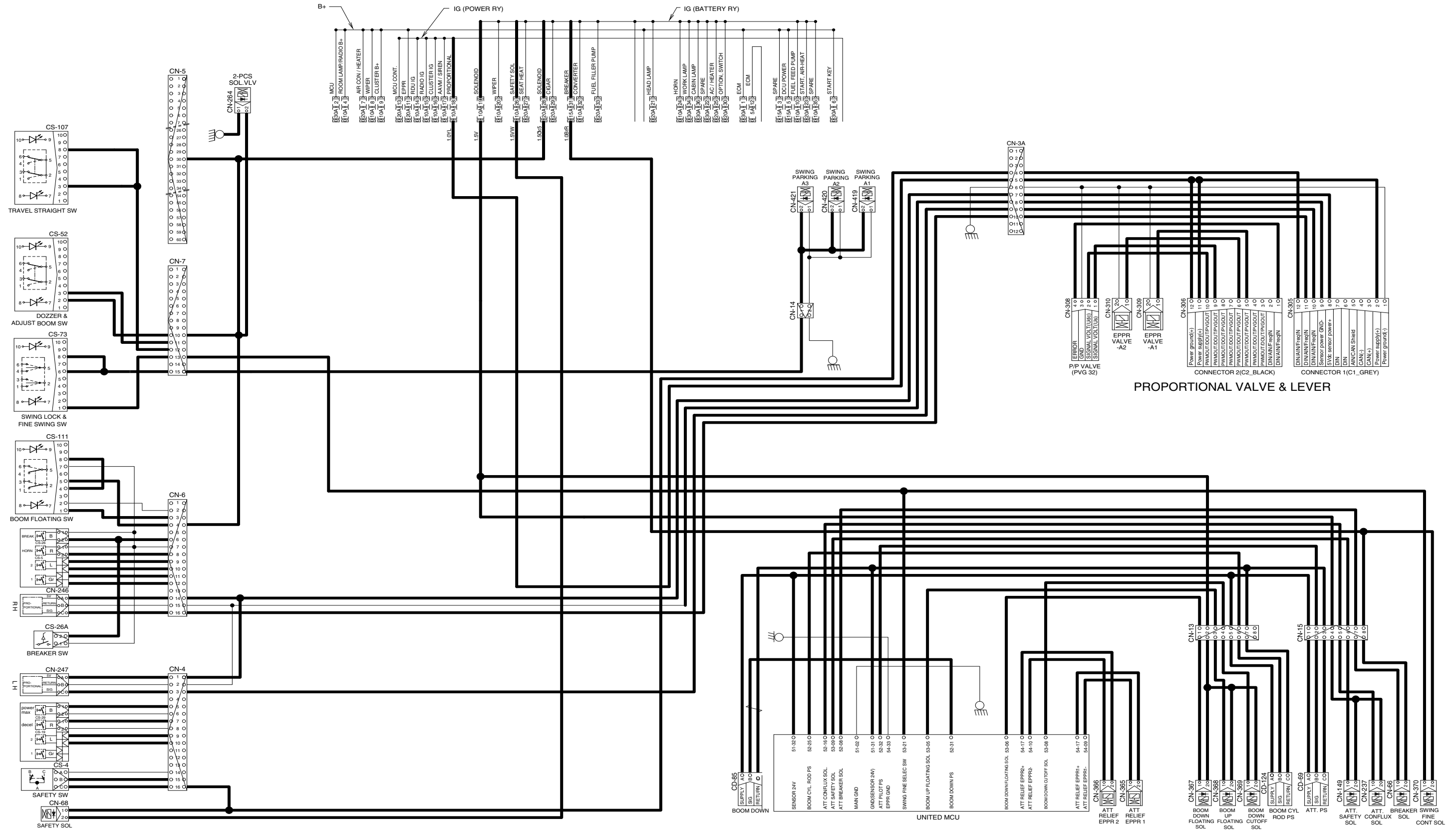
MONITORING CIRCUIT (SERIAL NO. : #0611-)



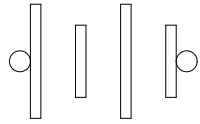
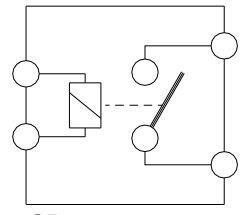
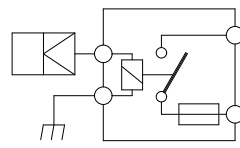
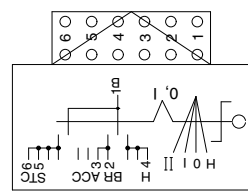
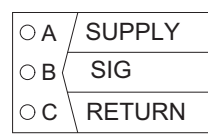
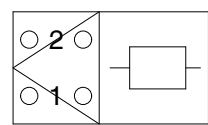
ELECTRICAL CIRCUIT FOR HYDRAULIC (1/2, SERIAL NO. : #0611-)

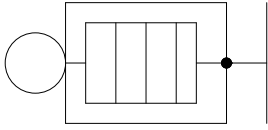
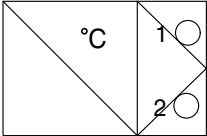
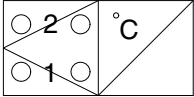
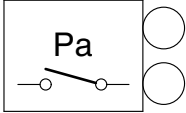
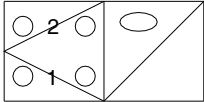
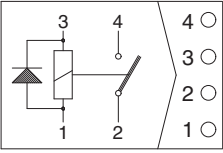


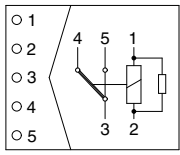
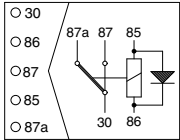
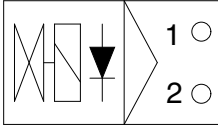
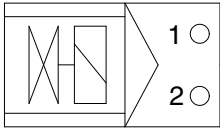
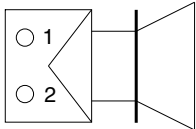
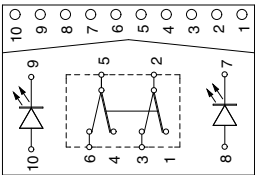
- ELECTRICAL CIRCUIT FOR HYDRAULIC (2/2, SERIAL NO. : #0611-)

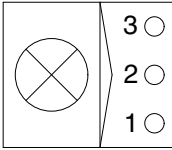
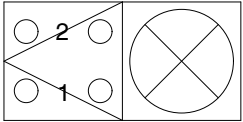
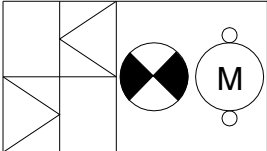
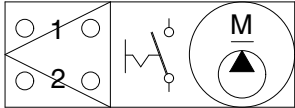
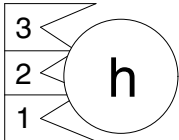
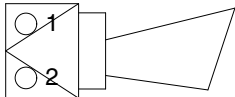


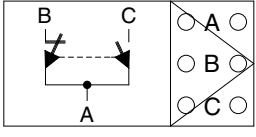
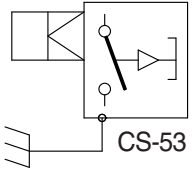
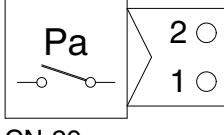
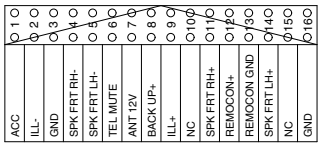
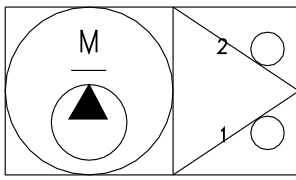
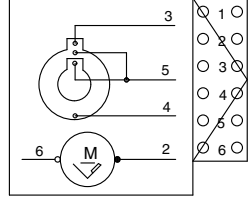
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

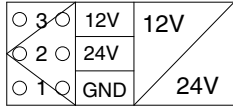
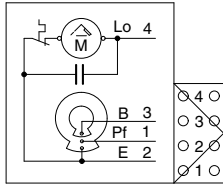
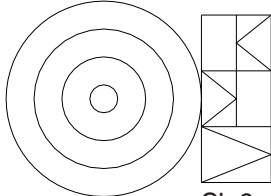
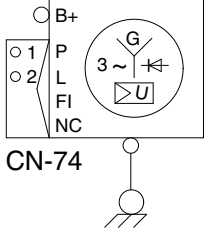

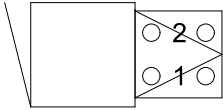
Part name	Symbol	Specifications	Check
Battery		12V × 100Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A (continuity) 1000A (30 seconds)	※ Check coil resistance(M4 to M4) Normal : About 50Ω ※ Check contact Normal : ∞Ω
Glow plug relay	 <p style="text-align: center;">CR-24</p>	24V 200A	※ Check contact Normal : 0.942Ω (For terminal 1-GND)
Start key	 <p style="text-align: center;">CS-2A</p>	B-BR : 24V 1A B-ACC : 24V 10A B-ST : 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	 <p>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-90 CD-124</p>	8~30V	※ Check contact Normal : 0.1Ω
Resistor		3W 120Ω	※ Check resistance A-B : 120Ω

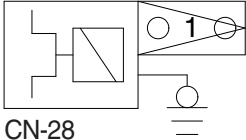
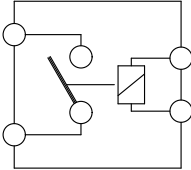
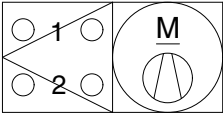
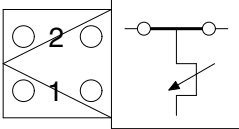
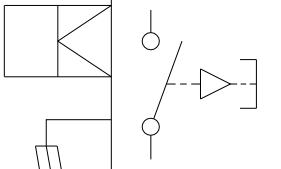
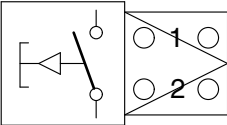
Part name	Symbol	Specifications	Check
Glow plug	 <p>CN-80</p>	24V 200A	※ Check resistance 0.25-0.12Ω
Temperature sensor (hydraulic)	 <p>CD-1</p>	-	※ Check resistance 50°C : 804Ω 80°C : 310Ω 100°C : 180Ω
Air inlet temperature sensor	 <p>CD-98 CD-98A</p>	-	-
Air cleaner pressure switch	 <p>CD-10</p>	N.O TYPE	※ Check contact High level : ∞Ω Low level : 0Ω
Fuel level sender	 <p>CD-2</p>	-	※ 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)		24V 16A	※ Check resistance Normal : About 200Ω (for terminal 1-3) ∞Ω (for terminal 2-4)

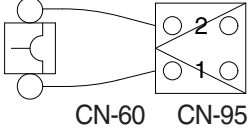
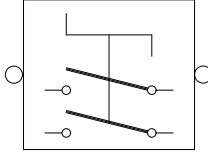
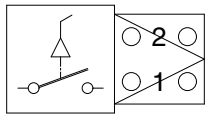
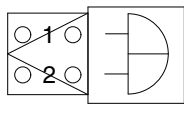
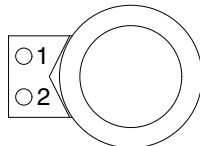
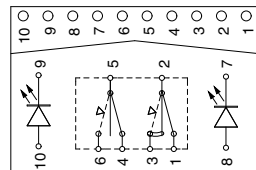
Part name	Symbol	Specifications	Check
Relay	 <p>CR-2 CR-5 CR-36 CR-85 CR-95</p>	24V 16A	※ Check resistance Normal : About 160 Ω (for terminal 1-2) 0 Ω (for terminal 3-4) ∞ Ω (for terminal 3-5)
Relay	 <p>CR-4 CR-7 CR-9 CR-13 CR-35 CR-101</p>	24V 16A	※ Check resistance Normal : About 160 Ω (for terminal 85-86) 0 Ω (for terminal 30-87a) ∞ Ω (for terminal 30-87)
Solenoid valve	 <p>CN-66 CN-68 CN-70 CN-88 CN-135 CN-140 CN-149 CN-237 CN-262 CN-264 CN-367 CN-368 CN-369 CN-370 CN-419 CN-420 CN-421</p>	24V 1A	※ Check resistance Normal : 15~25 Ω (for terminal 1-2)
EPPR valve	 <p>CN-75 CN-133 CN-242 CN-309 CN-310 CN-365 CN-366 CN-378</p>	700mA	※ Check resistance Normal : 15~25 Ω (for terminal 1-2)
Speaker	 <p>CN-23 (LH) CN-24 (RH) CN-260</p>	20W	※ Check resistance Normal : A few Ω
Switch (locking type)	 <p>CS-52 CS-67 CS-83 CS-99 CS-107 CS-108 CS-111</p>	24V 1.5A	※ Check contact Normal ON : 0 Ω (for terminal 2-3, 5-6) ∞ Ω (for terminal 1-2, 4-5) OFF : ∞ Ω (for terminal 2-3, 5-6) 0 Ω (for terminal 1-2, 4-5)

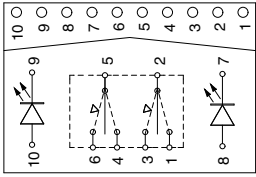
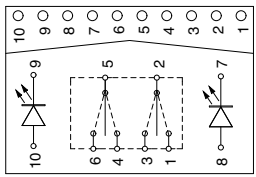
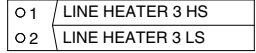
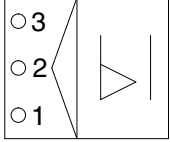
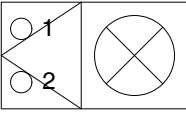
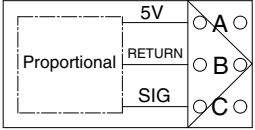
Part name	Symbol	Specifications	Check
Room lamp	 CL-1	24V 10W	※ Check disconnection Normal : 1.0Ω ON : 0Ω (For terminal 1-2) ∞Ω (For terminal 1-3) OFF : ∞Ω (For terminal 1-2) 0Ω (For terminal 1-3)
Head lamp, Work lamp, Cab lamp	 CL-3 CL-4 CL-5 CL-6 CL-8 CL-9 CL-10 CL-24	24V 65W (H3 Type)	※ Check disconnection Normal : 1.2Ω
Beacon lamp	 CL-7	21V 70W (H1 Type)	※ Check disconnection Normal : A fewΩ
Fuel filler pump	 CN-61	24V 10A 35 l /min	※ Check resistance Normal : 1.0Ω
Hour meter	 CN-48	16~32V	※ Check operation Supply power(24V) to terminal No.2 and connect terminal No.1 and ground
Horn	 CN-20 CN-25	DC22~28V 2A	※ Check operation Supply power(24V) to each terminal and connect ground.

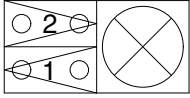
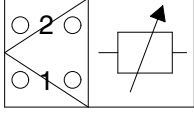
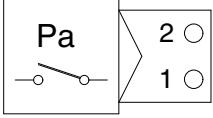
Part name	Symbol	Specifications	Check
Safety switch	 <p>CS-4</p>	24V 15A (N.C TYPE)	※ Check contact Normal : 1.0Ω ON : 0Ω (for terminal A-B) ∞Ω (for terminal A-C) OFF : ∞Ω (for terminal A-B) 0Ω (for terminal A-C)
Wiper cut switch	 <p>CS-53</p>	24V (N.O TYPE)	※ Check contact Normal : 0Ω (one pin to ground)
Receiver dryer	 <p>CN-29</p>	24V 2.5A	※ Check contact Normal : ∞Ω
Radio & USB player	 <p>CN-27A</p>	24V 2A	※ Check voltage 20~25V (for terminal 1-3, 3-8)
Washer pump	 <p>CN-22 CN-145</p>	24V 3.8A	※ Check contact Normal : 10.7Ω (for terminal 1-2)
Wiper motor	 <p>CN-21</p>	24V 2A	※ Check disconnection Normal : 7Ω (for terminal 2-6)

Part name	Symbol	Specifications	Check
DC/DC Converter	 <p>CN-138</p>	12V 3A	※ Check voltage 24V (for terminal 1-2) 12V (for terminal 1-3)
Low wiper motor	 <p>CN-407</p>	-	-
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 100A	※ Check contact Normal : 0Ω (for terminal B ⁺ -2) Normal : 24~27.5V
Starter	 <p>CN-45</p>	24V 4.8kW	※ 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 9.5A	※ Check resistance Normal : 2.5Ω (for terminal 1-2)
Thermistor		1°C OFF 4°C ON	※ Check resistance Normal : 0Ω (for terminal 1-2), the atmosphere temp : Over 4°C
Door switch	 CS-1	24V 2W	※ Check resistance Normal : About 5MΩ
Switch (power max, one touch decel, horn, breaker)	 CS-5 CS-19 CS-26 CS-29	24V 6A	※ Check resistance Normal : ∞Ω

Part name	Symbol	Specifications	Check
Circuit breaker	 <p>CN-60 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-74A CS-74B</p>	6-36V	※ Check disconnection Normal : 0.1Ω
Breaker switch	 <p>CS-26A</p>	-	-
Quick clamp buzzer	 <p>CN-113</p>	24V 200mA $107 \pm 4\text{dB}$	-
Socket	 <p>CN-139</p>	12V 10A	-
Switch	 <p>CS-79</p>	24V 8A	※ Check contact Normal ON : 0Ω (for terminal 2-3, 5-6) $\infty\Omega$ (for terminal 1-2, 4-5) OFF : $\infty\Omega$ (for terminal 2-3, 5-6) 0Ω (for terminal 1-2, 4-5)

Part name	Symbol	Specifications	Check
Switch	 <p>CS-100</p>	24V 8A	※ Check contact Normal OFF : $\infty \Omega$ (for terminal 2-1, 2-3, 5-4, 5-6)
Switch	 <p>CS-73</p>	24V 8A	※ Check contact Normal OFF : $\infty \Omega$ (for terminal 2-1, 2-3, 5-4, 5-6)
DEF/AdBlue® line heater	 <p>CN-381 CN-382 CN-383</p>	-	-
WIF sensor	 <p>CD-45</p>	-	※ Check disconnection Normal : 68.8~4.94 Ω
DEF/AdBlue® fill up warning lamp (LED)	 <p>CL-40</p>	-	-
Proportional valve sensor	 <p>CN-246 CN-247</p>	-	-

Part name	Symbol	Specifications	Check								
DEF/AdBlue® full lamp	 <p>CL-41</p>	-	-								
Temperature sensor (A/C incar, A/C ambient)		-	-								
Coolant diverter valve	<table border="1" data-bbox="437 891 724 976"> <tr> <td>○ 1</td> <td>VALVE HS</td> </tr> <tr> <td>○ 2</td> <td>NC</td> </tr> <tr> <td>○ 3</td> <td>VALVE LS</td> </tr> </table> <p>CN-384</p>	○ 1	VALVE HS	○ 2	NC	○ 3	VALVE LS	-	-		
○ 1	VALVE HS										
○ 2	NC										
○ 3	VALVE LS										
Proportional valve sensor	<table border="1" data-bbox="443 1137 715 1267"> <tr> <td>○ 1</td> <td>SIG. V(Us)</td> </tr> <tr> <td>○ 2</td> <td>SIG. V(Udc)</td> </tr> <tr> <td>○ 3</td> <td>GND</td> </tr> <tr> <td>○ 4</td> <td>ERROR</td> </tr> </table> <p>CN-308</p>	○ 1	SIG. V(Us)	○ 2	SIG. V(Udc)	○ 3	GND	○ 4	ERROR	-	-
○ 1	SIG. V(Us)										
○ 2	SIG. V(Udc)										
○ 3	GND										
○ 4	ERROR										
Dozer act pressure switch	 <p>CD-50</p>	N.O type	※ Check resistance Normal : ∞ Ω (open)								
Water level sensor	<table border="1" data-bbox="456 1727 708 1798"> <tr> <td>○ C</td> <td>SIGNAL</td> </tr> <tr> <td>○ B</td> <td>RETURN(29)</td> </tr> <tr> <td>○ A</td> <td>SUPPLY POWER 5V(72)</td> </tr> </table> <p>CD-16</p>	○ C	SIGNAL	○ B	RETURN(29)	○ A	SUPPLY POWER 5V(72)	-	-		
○ C	SIGNAL										
○ B	RETURN(29)										
○ A	SUPPLY POWER 5V(72)										

Part name	Symbol	Specifications	Check												
Camera	<table border="1" data-bbox="472 282 679 448"> <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="472 456 564 488">CN-402</p>	○ 1	LVDS POS	○ 2	GND	○ 3	LVDS NEG	○ 4	POWER 24V	○ 5	NC	○ 6	ADJUST SIGNAL	-	-
○ 1	LVDS POS														
○ 2	GND														
○ 3	LVDS NEG														
○ 4	POWER 24V														
○ 5	NC														
○ 6	ADJUST SIGNAL														
NOx sensor (tail out, turbo out)	<table border="1" data-bbox="472 562 691 728"> <tr><td>○ 6</td><td>J1939 HI</td></tr> <tr><td>○ 5</td><td>J1939 LO</td></tr> <tr><td>○ 4</td><td>GND</td></tr> <tr><td>○ 3</td><td>ADDRESS SELEC</td></tr> <tr><td>○ 2</td><td>J1939-</td></tr> <tr><td>○ 1</td><td>BATT+</td></tr> </table> <p data-bbox="472 732 691 763">CN-J7A CN-J7B</p>	○ 6	J1939 HI	○ 5	J1939 LO	○ 4	GND	○ 3	ADDRESS SELEC	○ 2	J1939-	○ 1	BATT+	-	-
○ 6	J1939 HI														
○ 5	J1939 LO														
○ 4	GND														
○ 3	ADDRESS SELEC														
○ 2	J1939-														
○ 1	BATT+														

GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION (SERIAL NO. : -#0610)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	10	I/conn (Frame harness-Pump PS harness)	S816-010002	S816-110002
CN-2	AMP	20	I/conn (Frame harness-Engine harness)	936777-2	936780-2
CN-3	-	26	I/conn (Frame harness-Engine harness)	1897009-2	1897013-2
CN-3A	AMP	12	PVG harness	174661-2	368537-1
CN-4	AMP	16	I/conn (Console harness LH-Frame harness)	368047-1	368050-1
CN-5	DEUTSCH	60	I/conn (Side harness RH-Frame harness)	DRB16-60SAE-L018	DRB14-60PAE-L018
CN-6	AMP	16	I/conn (Console harness RH-Frame harness)	368047-1	368050-1
CN-7	AMP	15	I/conn (Console harness RH-Frame harness)	368301-1	2-85262-1
CN-8	AMP	10	I/conn (Console harness RH-Frame harness)	S816-010002	174655-2
CN-9	DEUTSCH	12	I/conn (AAVM harness-Frame harness)	DT06-12SA-P021	DT04-12PA-P021
CN-10	DEUTSCH	12	I/conn (Cab harness-Side harness RH)	DT06-12S-EP06	DT04-12PA-P021
CN-11	DEUTSCH	8	I/conn (Frame harness-Aircon harness)	DT06-8S-EP06	-
CN-12	DEUTSCH	2	I/conn (Frame harness-Boom wire harness)	DT06-2S-EP06	DT04-2P-E005
CN-13	AMP	8	I/conn (Frame harness-Boom floating harness)	174982-2	174984-2
CN-14	DEUTSCH	2	I/conn (Frame harness-Swing parking harness)	DT06-2S-EP06	DT04-2P-EP06
CN-15	AMP	8	I/conn (Frame harness-Breaker sol)	174982-2	174984-2
CN-16B	AMP	6	Emergency engine start & speed control	S816-006002	21NB-10710
CN-17	AMP	8	I/conn (Side harness RH-Wiper harness)	S816-008002	S816-108002
CN-20	MOLEX	2	Horn	36825-0211	-
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	36825-0211	-
CN-27A	KUM	16	Radio & USB player	PK145-16017	-
CN-27B	AMP	8	Radio & USB player	-	174984-2
CN-28	KUM	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-36	-	-	Fuse & relay box	21Q7-10901	-
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	DRC26-40SA	-

(SERIAL NO. : -#0610)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-56A	AMP	12	Cluster	-	174663-2
CN-56B	AMP	8	Cluster	-	174984-2
CN-60	-	2	Circuit breaker	-	S813-130201
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	DT04-2P-E005
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	2	Alternator "L" terminal	-	S820-108000
CN-75	AMP	2	Pump EPPR valve	S816-002002	-
CN-80	RING-TERM	-	Glow plug	S820-306000	-
CN-81	DEUTSCH	2	Travel buzzer solenoid	DT06-2S-EP06	DT04-2P-E005
CN-88	DEUTSCH	2	Power max solenoid	DT06-2S-EP06	-
CN-93	DEUTSCH	86	ECM	DRCP28-86SA	-
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	12	GPS	DT06-12S-P021	DT04-12PA-P021
CN-126	AMP	10	l/conn (Frame harness-Service tool)	2-1418390-1	S816-110002
CN-126	DEUTSCH	4	Service tool	DT06-4S	DT04-4P
CN-126A	-	9	Service tool	-	HD10-9-969
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-145	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	-
CN-149	DEUTSCH	2	Attach safety solenoid	DT06-2S-EP06	-
CN-156	DEUTSCH	2	Air seat heat	-	DT04-2P
CN-157	AMP	1	Antena power	S822-014002	-
CN-236	DEUTSCH	2	Air compressor relay	DT06-2S-EP06	-
CN-237	DEUTSCH	2	Attach conflux solenoid	DT06-2S-EP06	-
CN-242	DEUTSCH	2	Attach EPPR 2 (MCU 1)	DT06-2S-EP06	-
CN-245	FCI	4	PTC power	180900-0	-
CN-246	DEUTSCH	3	Proportional valve-RH	DT06-3S	DT04-3P
CN-247	DEUTSCH	3	Proportional valve-LH	DT06-3S	DT04-3P
CN-258	KET	1	Air compressor power	MG640944-5	-
CN-260	-	2	Siren AMP	-	S816-102002

(SERIAL NO. : -#0610)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-261	KET	4	Siren AMP	MG610047	-
CN-262	DEUTSCH	2	Straight travel solenoid	DT06-2S-EP06	DT04-2P-E005
CN-263	DEUTSCH	2	2 Piece solenoid	DT06-2S-EP06	DT04-2P-E005
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-363	AMP	12	Haptic controller	174045-2	-
CN-365	DEUTSCH	2	Attach EPPR valve 1	DT06-2S-EP06	-
CN-366	DEUTSCH	2	Attach 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	-
CN-376	AMP	34	Membrane controller	4-1437290-1	-
CN-378	DEUTSCH	2	Attach EPPR 1 (MCU 1)	DT06-2S-EP06	-
CN-379-XNI	DEUTSCH	24	DCU module	HDP24-24-31ST	-
CN-381	DEUTSCH	2	DEF/AdBlue® line heater 1	DT06-2S-EP06	-
CN-382	DEUTSCH	2	DEF/AdBlue® line heater 2	DT06-2S-EP06	-
CN-383	DEUTSCH	2	DEF/AdBlue® line heater 3	DT06-2S-EP06	-
CN-384	AMP	3	Coolant diverter valve	1-1418448-1	-
CN-385	-	7	Fan clutch	965570	-
CN-398	DEUTSCH	3	RS232	DT06-3S-EP06	DT04-3P-E005
CN-401	FCI	90	AAVM controller	A2C00021583	-
CN-401	DEUTSCH	12	AAVM	DT06-12S	-
CN-402	DEUTSCH	6	Front view camera	DT06-6S-P021	DT04-6P-P021
CN-403	DEUTSCH	6	Rear view camera	DT06-6S-EP06	DT04-6P-EP14
CN-404	DEUTSCH	6	RH view camera	DT06-6S-EP06	DT04-6P-EP14
CN-405	DEUTSCH	6	LH view camera	DT06-6S-EP06	DT04-6P-EP14
CN-406	DEUTSCH	3	Service tool	DT06-3S-E005	DT04-3P-EP06
CN-407	FCI	4	Low wiper motor	180900-0	-
CN-408	FCI	4	Low washer pump	MG640795	-
CN-419	DEUTSCH	2	Swing parking solenoid-A1	DT06-2S-EP06	-
CN-420	DEUTSCH	2	Swing parking solenoid-A2	DT06-2S-EP06	-
CN-421	DEUTSCH	2	Swing parking solenoid-A3	DT06-2S-EP06	-
CN-422	AMP	4	Ammonia sensor	1-1418390-1	-

(SERIAL NO. : -#0610)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-423	DEUTSCH	4	Tank header unit	DT06-4S	-
CN-424	AMP	2	DEF/AdBlue® injector temperature sensor	2098557-1	-
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-429	AMP	6	DEF/AdBlue® ID module sensor	776433-2	-
CN-J7A	AMP	6	DOC NOx sensor	776433-2	-
CN-J7B	AMP	6	SCR NOx sensor	776433-2	-
· Relay					
CR-1	RING-TERM	-	Battery relay	ST710289-2	-
CR-2	-	5	Horn relay	-	-
CR-4	-	5	Working lamp relay	-	-
CR-5	-	5	Anti restart relay	-	-
CR-7	-	5	Aircon compressor relay	-	-
CR-9	-	5	Cabin lamp relay	-	-
CR-13	-	5	Head lamp relay	-	-
CR-23	KET	2	Start relay	-	MG640322
CR-24	RING TERM	1	Preheat relay	S822-014000	-
CR-35	-	5	Power relay	-	-
CR-36	-	5	Preheat relay	-	-
CR-85	-	5	Beacon lamp relay	-	-
CR-95	-	5	Feed pump relay	-	-
CR-101	-	5	DCU relay	-	-
· Switch					
CS-1	SHUR	1	Door switch	S822-014002	-
CS-2A	WP	6	Start key switch	S814-006100	-
CS-2B	DEUTSCH	3	Reader	DT06-3S-EP06	DT04-3P-E005
CS-4	DEUTSCH	3	Safety switch	DT06-3S	-
CS-5	DEUTSCH	2	Horn switch	-	DT04-2P
CS-19	DEUTSCH	2	One touch decel switch	-	DT04-2P
CS-26	DEUTSCH	2	Breaker switch	DT06-2S	-
CS-26A	AMP	2	Breaker pedal switch	S816-002002	S816-102002
CS-29	DEUTSCH	2	Power max switch	DT06-2S	-
CS-33	AMP	6	Emergency engine stop switch	S816-006002	S816-106002
CS-52	CARLING	10	Adjust & dozer switch	VC2-01	-
CS-53	AMP	1	Wiper cut switch	S822-014002	-
CS-67	CARLING	10	Quick clamp switch	VC2-01	-
CS-73	CARLING	10	Swing lock & fine switch	VC2-01	-

(SERIAL NO. : -#0610)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CS-74A	AMP	2	Master switch	S813-030201	-
CS-74B	DEUTSCH	2	Master switch	DT06-2S-EP06	-
CS-78	CARLING	10	Lower wiper switch	VC2-01	-
CS-79	CARLING	10	Lower wiper switch	VC2-01	-
CS-83	CARLING	10	Spare switch	VC2-01	-
CS-99	CARLING	10	Air compressor switch	VC2-01	-
CS-100	CARLING	10	SCR system cleaning switch	VC2-01	-
CS-107	CARLING	10	Travel straight switch	VC2-01	-
CS-108	CARLING	10	Auto grease switch	VC2-01	-
CS-111	CARLING	10	Boom floating switch	VC2-01	-
· 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	DT06-2S-EP06	DT04-2P
CL-24	DEUTSCH	2	Head lamp	DT06-2S-EP06	DT04-2P-E005
CL-40	DEUTSCH	2	DEF/AdBlue® purging lamp	DT06-2S-EP06	DT04-2P
CL-41	AMP	1	DEF/AdBlue® F/warning lamp	S822-01400	S822-11400
· Sensor, sendor					
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	2	Swing pressure sensor	DT06-2S-EP06	-
CD-31	DEUTSCH	3	Overload pressure sensor	DT06-3S-EP06	DT04-3S-EP06
CD-32	DEUTSCH	2	Boom up pressure sensor	DT06-2S-EP06	-
CD-35	DEUTSCH	3	Arm in/out pressure sensor	DT06-3S-EP06	-
CD-42	DEUTSCH	3	Pump pressure sensor 1	DT06-3S-EP06	-
CD-43	DEUTSCH	3	Pump pressure sensor 2	DT06-3S-EP06	-
CD-44	DEUTSCH	3	Pump pressure sensor 3	DT06-3S-EP06	-

(SERIAL NO. : -#0610)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CD-45	AMP	3	WIF sensor	776429-3	-
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	2	Boom down sensor	DT06-2S-EP06	-
CD-90	DEUTSCH	2	Arm in pressure sensor	DT06-2S-EP06	-
CD-93A	AMP	2	Air inlet temperature sensor	776427-1	-
CD-98	AMP	2	Air intake sensor	776427-1	-
CD-124	DEUTSCH	3	Boom cylinder rod pressure snensor	DT06-3S-E005	-

CONNECTOR DESTINATION (SERIAL NO. : #0611-)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	10	I/conn (Frame harness-Pump PS harness)	S816-010002	S816-110002
CN-2	AMP	20	I/conn (Frame harness-Engine harness)	936777-2	936780-2
CN-3	-	26	I/conn (Frame harness-Engine harness)	1897009-2	1897013-2
CN-3A	AMP	12	PVG harness	174661-2	368537-1
CN-4	AMP	16	I/conn (Console harness LH-Frame harness)	368047-1	368050-1
CN-5	DEUTSCH	60	I/conn (Side harness RH-Frame harness)	DRB16-60SAE-L018	DRB14-60PAE-L018
CN-6	AMP	16	I/conn (Console harness RH-Frame harness)	368047-1	368050-1
CN-7	AMP	15	I/conn (Console harness RH-Frame harness)	368301-1	2-85262-1
CN-8	AMP	10	I/conn (Console harness RH-Frame harness)	S816-010002	174655-2
CN-9	DEUTSCH	12	I/conn (Frame harness - AAVM harness)	DT06-12SA-EP06	DT04-12PA-P021
CN-10	DEUTSCH	12	I/conn (Cab harness-Side harness RH)	DT06-12S-EP06	DT04-12PA-P021
CN-11	DEUTSCH	8	I/conn (Frame harness-Aircon harness)	DT06-8S-EP06	-
CN-12	DEUTSCH	2	I/conn (Frame harness-Boom wire harness)	DT06-2S-EP06	DT04-2P-E005
CN-13	AMP	8	Boom floating solenoid	174982-2	174984-2
CN-14	DEUTSCH	2	I/conn (Frame harness-Swing parking harness)	DT06-2S-EP06	DT04-2P-EP06
CN-15	AMP	8	I/conn (Frame harness- Attach sol harness)	174982-2	174984-2
CN-16	AMP	6	Emergency engine start & speed control	S816-006002	S816-106002
CN-16B	AMP	6	Emergency engine start & speed control	S816-006002	21NB-10710
CN-17	AMP	8	I/conn (Side harness RH-Wiper harness)	S816-008002	S816-108002
CN-20	MOLEX	2	Horn	36825-0211	-
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	36825-0211	-
CN-27A	KUM	16	Radio & USB player	PK145-16017	-
CN-27B	AMP	8	Radio & USB player	-	174984-2
CN-28	KUM	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-36	-	-	Fuse & relay box	21Q7-10901	-
CN-45	RING-TERM	-	Starter motor B+	S820-108000	-
CN-48	KET	1	Hour meter	2-520193-2	-
CN-51	TE	34	United MCU	2-1437285-3	-
CN-52	TE	34	United MCU	4-1437290-1	-
CN-53	TE	26	United MCU	1473416-1	-
CN-54	TE	34	United MCU	4-1437290-0	-

(SERIAL NO. : #0611-)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-56A	AMP	12	Cluster	-	174663-2
CN-56B	AMP	8	Cluster	-	174984-2
CN-60	-	2	Circuit breaker	-	S813-130201
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	DT04-2P-E005
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	2	Alternator "L" terminal	-	S820-105000
CN-75	AMP	2	Pump EPPR valve	S816-002002	-
CN-80	RING-TERM	-	Glow plug	S820-306000	-
CN-81	DEUTSCH	2	Travel buzzer solenoid	DT06-2S-EP06	DT04-2P-E005
CN-88	DEUTSCH	2	Power max solenoid	DT06-2S-EP06	-
CN-93-J1	DEUTSCH	86	ECM	DRCP28-86SA	-
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	12	GPS	DT06-12S-P021	DT04-12PA-P021
CN-126	AMP	10	l/conn (Frame harness-Service tool)	S816-010002	S816-110002
CN-126	DEUTSCH	4	Service tool	DT06-4S	DT04-4P
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-145	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	-
CN-149	DEUTSCH	2	Attach safety solenoid	DT06-2S-EP06	-
CN-156	DEUTSCH	2	Air seat heat	-	DT04-2P
CN-157	AMP	1	Antena power	S822-014002	-
CN-236	DEUTSCH	2	Air compressor relay	DT06-2S-EP06	-
CN-237	DEUTSCH	2	Attach confluent solenoid	DT06-2S-EP06	-
CN-242	DEUTSCH	2	P1 regulator EPPR	DT06-2S-EP06	-
CN-243	DEUTSCH	2	P2 regulator EPPR	DT06-2S-EP06	-
CN-245	-	2	PTC power	S813-030201	-
CN-246	DEUTSCH	3	Proportional valve-RH	DT06-3S	DT04-3P
CN-247	DEUTSCH	3	Proportional valve-LH	DT06-3S	DT04-3P
CN-258	KET	1	Air compressor power	MG640944-5	-
CN-260	AMP	2	Siren AMP	174352-2	S816-102002

(SERIAL NO. : #0611-)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-261	KET	6	Siren AMP	MG610049	-
CN-262	DEUTSCH	2	Straight travel solenoid	DT06-2S-EP06	DT04-2P-E005
CN-263	DEUTSCH	2	2 Piece solenoid	DT06-2S-EP06	DT04-2P-E005
CN-263	DEUTSCH	2	Air compressor relay	DT06-2S-EP06	-
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-363	AMP	12	Haptic controller	174045-2	-
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	Membrane controller	4-1437290-1	-
CN-379-XN1	DEUTSCH	24	DCU module	HDP24-24-31ST	-
CN-381	DEUTSCH	2	DEF/AdBlue® line heater 3	DT06-2S-EP06	-
CN-382	DEUTSCH	2	DEF/AdBlue® line heater 2	DT06-2S-EP06	-
CN-383	DEUTSCH	2	DEF/AdBlue® line heater 1	DT06-2S-EP06	-
CN-384	AMP	3	Coolant diverter valve	1-1418448-1	-
CN-385	-	7	Fan clutch	965570	-
CN-398	DEUTSCH	3	RS232	DT06-3S-EP06	DT04-3P-E005
CN-401	FCI	90	AAVM controller	A2C00021583	-
CN-401	DEUTSCH	12	AAVM	DT06-12S	-
CN-402	DEUTSCH	6	Front view camera	DT06-6S-P021	DT04-6P-P021
CN-403	DEUTSCH	6	Rear view camera	DT06-6S-EP06	DT04-6P-EP14
CN-404	DEUTSCH	6	LH view camera	DT06-6S-EP06	DT04-6P-EP14
CN-405	DEUTSCH	6	RH view camera	DT06-6S-EP06	DT04-6P-EP14
CN-406	DEUTSCH	3	Service tool	DT06-3S-E005	DT04-3P-E005
CN-407	FCI	4	Low wiper motor	180900-0	-
CN-408	FCI	4	Low washer pump	MG640795	-
CN-419	DEUTSCH	2	Swing parking solenoid-A1	DT06-2S-EP06	-
CN-420	DEUTSCH	2	Swing parking solenoid-A2	DT06-2S-EP06	-
CN-421	DEUTSCH	2	Swing parking solenoid-A3	DT06-2S-EP06	-
CN-422	AMP	4	Ammonia sensor	1-1418390-1	-
CN-423	DEUTSCH	4	Tank heater unit	DT06-4S	-

(SERIAL NO. : #0611-)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-424	AMP	2	DEF/AdBlue® injector temperature sensor	2098557-1	-
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-429	AMP	6	DEF/AdBlue® ID module sensor	776433-3	-
CN-J7A	AMP	6	DOC NOx sensor	776433-2	-
CN-J7B	AMP	6	SCR NOx sensor	776433-1	-
· Relay					
CR-1	RING-TERM	-	Battery relay	ST710289-2	-
CR-2	-	5	Horn relay	-	-
CR-4	-	5	Working lamp relay	-	-
CR-5	-	5	Anti restart relay	-	-
CR-7	-	5	Aircon compressor relay	-	-
CR-9	-	5	Cabin lamp relay	-	-
CR-13	-	5	Head lamp relay	-	-
CR-23	KET	2	Start relay	-	MG640322
CR-24	-	1	Preheat relay	S822-014000	-
CR-35	-	5	Power relay	-	-
CR-36	-	5	Preheat relay	-	-
CR-85	-	5	Beacon lamp relay	-	-
CR-95	-	5	Feed pump relay	-	-
CR-101	-	5	DCU relay	-	-
· Switch					
CS-1	SHUR	1	Door switch	S822-014002	-
CS-2A	WP	6	Start key switch	S814-006100	-
CS-2B	DEUTSCH	3	Reader	DT06-3S-EP06	DT04-3P-E005
CS-4	DEUTSCH	3	Safety switch	DT06-3S	-
CS-5	DEUTSCH	2	Horn switch	-	DT04-2P
CS-19	DEUTSCH	2	One touch decel switch	-	DT04-2P
CS-26	DEUTSCH	2	Breaker switch	DT06-2S	-
CS-26A	AMP	2	Breaker pedal switch	S816-002002	S816-102002
CS-29	DEUTSCH	2	Power max switch	DT06-2S	-
CS-33	AMP	6	Emergency engine stop switch	S816-006002	S816-106002
CS-52	CARLING	10	Adjust & dozer switch	VC2-01	-
CS-53	AMP	1	Wiper cut switch	S822-014002	-
CS-67	CARLING	10	Quick clamp switch	VC2-01	-
CS-73	CARLING	10	Swing lock & fine switch	VC2-01	-
CS-74A	AMP	2	Master switch	S813-030201	-

(SERIAL NO. : #0611-)

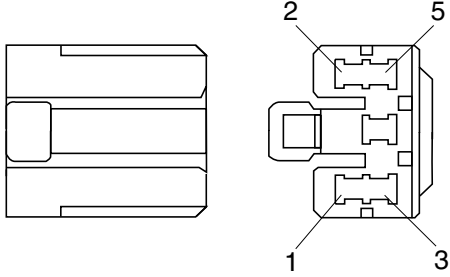
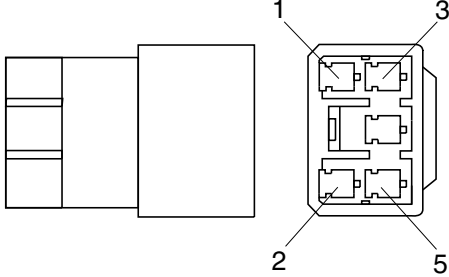
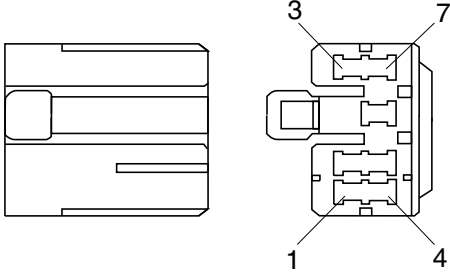
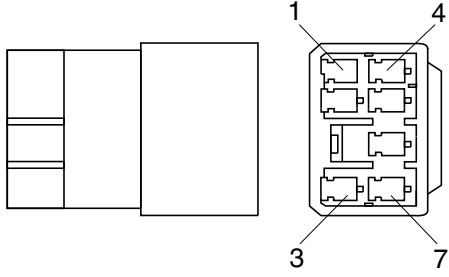
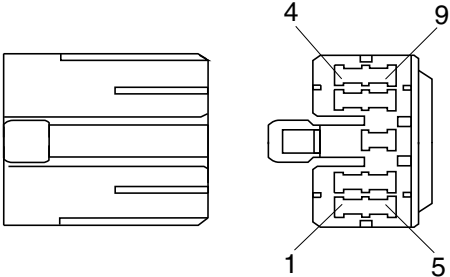
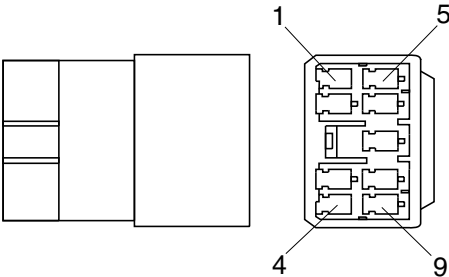
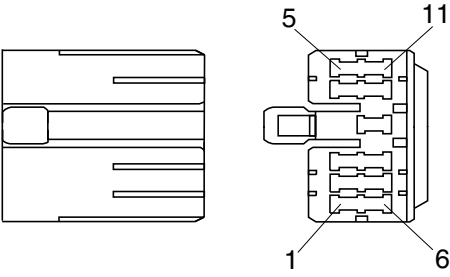
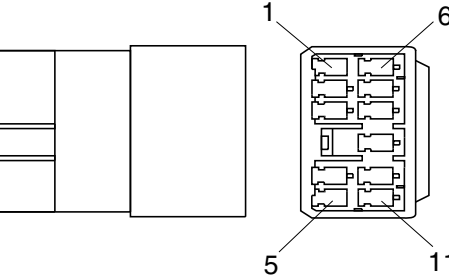
Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CS-74B	DEUTSCH	2	Master switch	DT06-2S-EP06	-
CS-78	CARLING	10	Lower wiper switch	VC2-01	-
CS-79	CARLING	10	Lower wiper switch	VC2-01	-
CS-83	CARLING	10	Spare switch	VC2-01	-
CS-99	CARLING	10	Air compressor switch	VC2-01	-
CS-100	CARLING	10	SCR system cleaning switch	VC2-01	-
CS-107	CARLING	10	Travel straight switch	VC2-01	-
CS-108	CARLING	10	Auto grease switch	VC2-01	-
CS-111	CARLING	10	Boom floating switch	VC2-01	-
· 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	DT06-2S-EP06	DT04-2P
CL-24	DEUTSCH	2	Head lamp - rear	DT06-2S-EP06	DT04-2P-E005
CL-40	DEUTSCH	2	DEF/AdBlue® purging lamp	DT06-2S-EP06	-
CL-41	AMP	1	DEF/AdBlue® F/warning lamp	174984-2	21Q4-13100
· Sensor, sendor					
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-E005
CD-32	DEUTSCH	3	Boom up pressure sensor	DT06-3S-EP06	-
CD-35	DEUTSCH	3	Arm in/out & bucket in pressure sensor	DT06-3S-EP06	-
CD-42	DEUTSCH	3	Pump pressure sensor 1	DT06-3S-EP06	-
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	776429-3	-

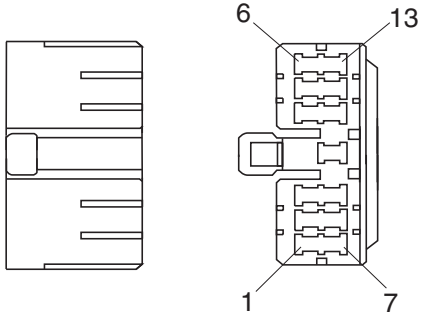
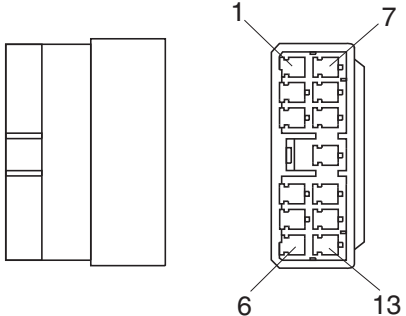
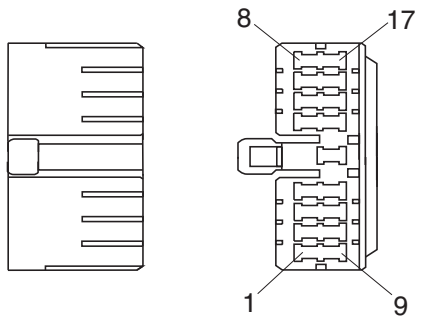
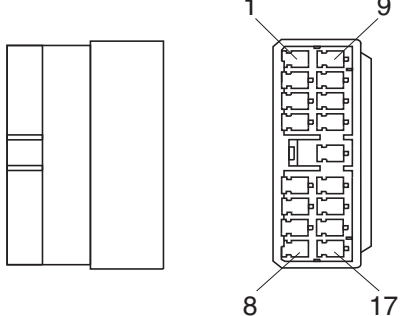
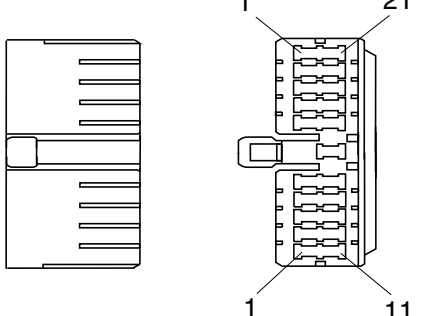
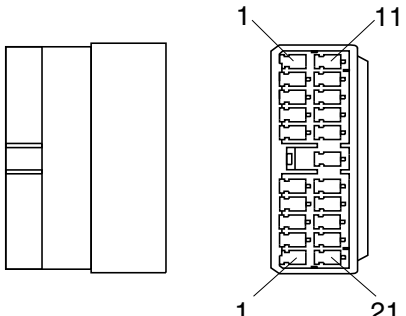
(SERIAL NO. : #0611-)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
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 pressure sensor	DT06-3S-EP06	-
CD-90	DEUTSCH	3	Arm in pressure sensor	DT06-3S-EP06	-
CD-98	AMP	2	Air intake sensor	776427-1	-
CD-98A	AMP	2	Air inlet temperature sensor	776427-1	-
CD-124	DEUTSCH	3	Boom cylinder rod pressure snensor	DT06-3S-E005	-

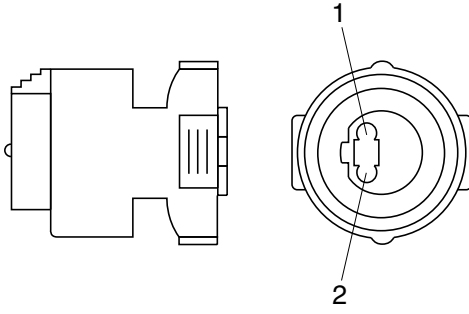
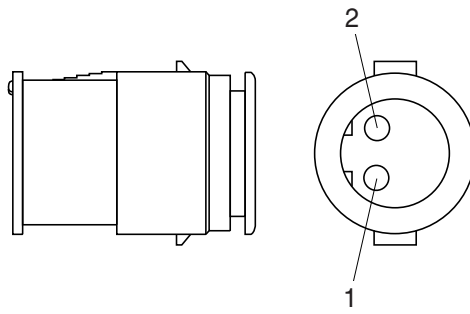
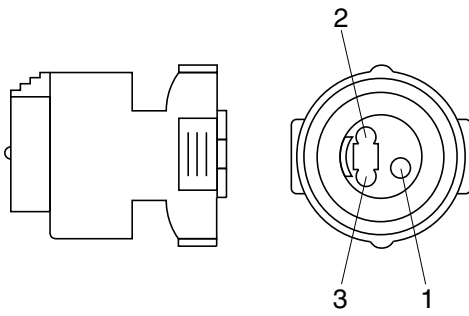
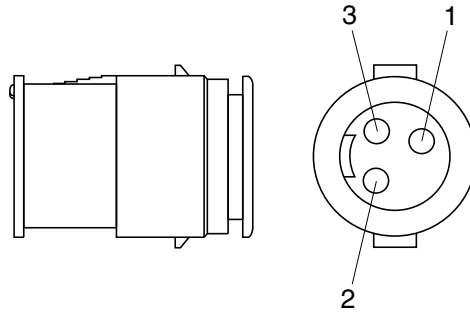
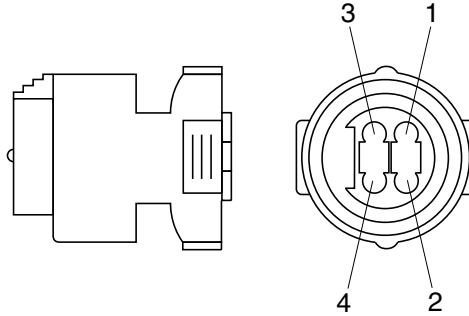
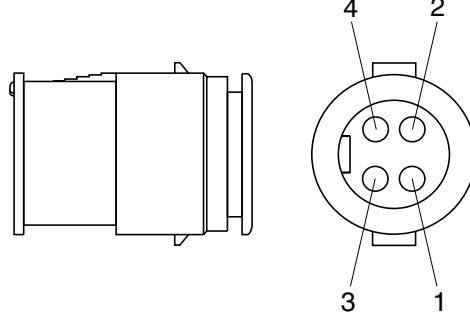
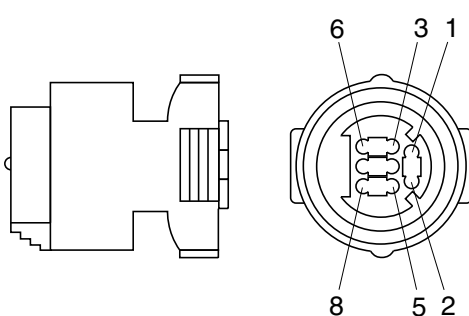
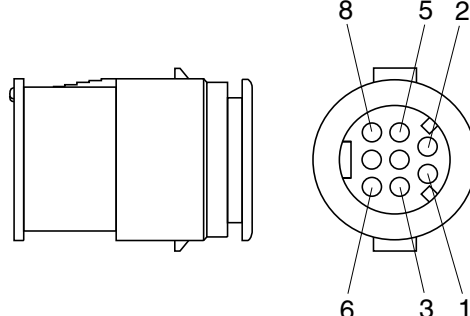
2. CONNECTION TABLE FOR CONNECTORS

1) PA TYPE CONNECTOR

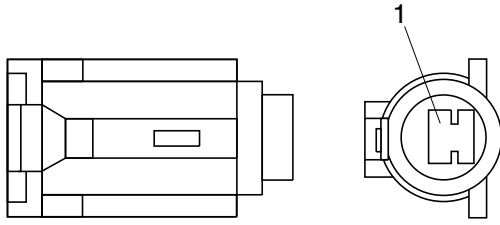
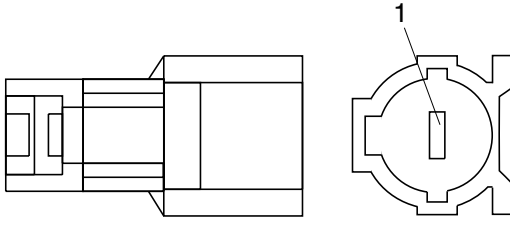
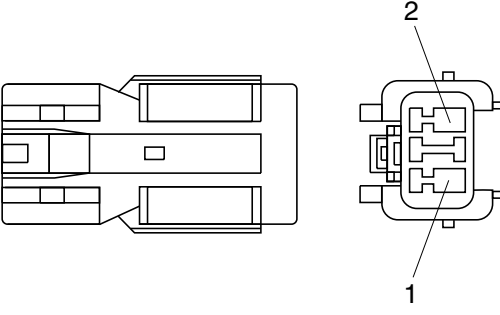
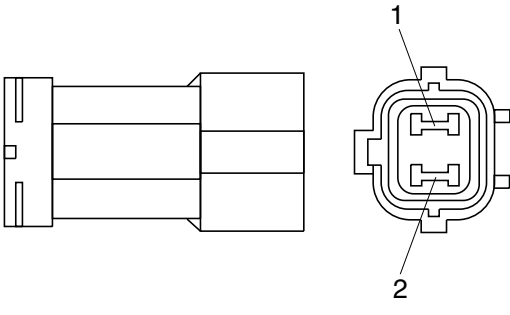
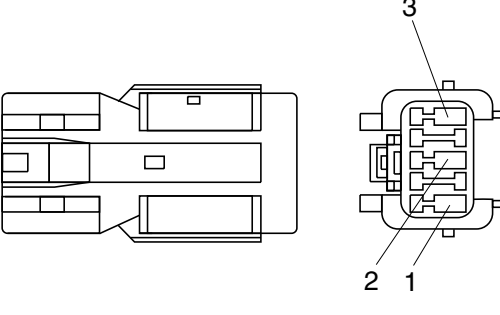
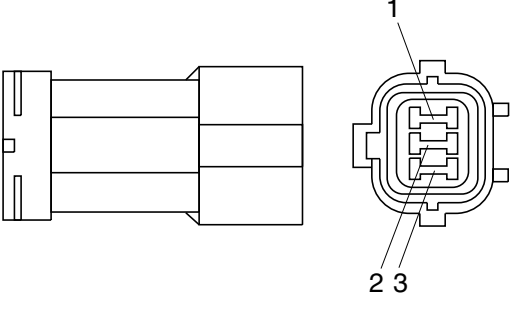
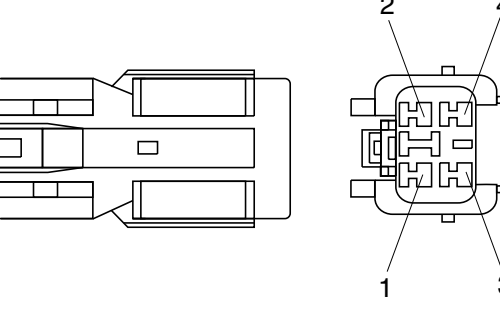
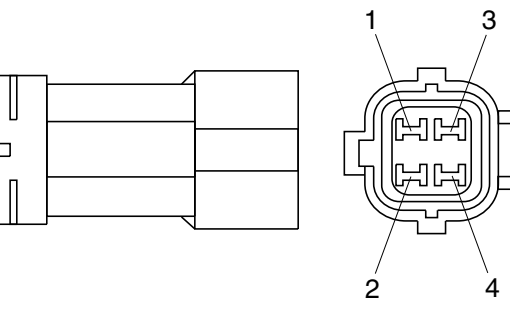
No. of pin	Receptacle connector (female)	Plug connector (male)
5	 <p style="text-align: center;">S811-005002</p>	 <p style="text-align: center;">S811-105002</p>
7	 <p style="text-align: center;">S811-007002</p>	 <p style="text-align: center;">S811-107002</p>
9	 <p style="text-align: center;">S811-009002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

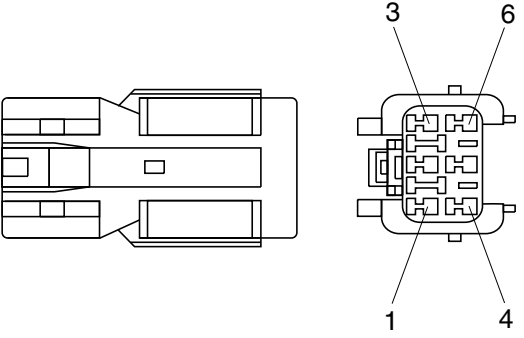
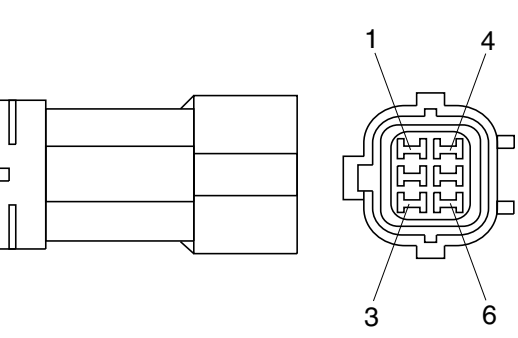
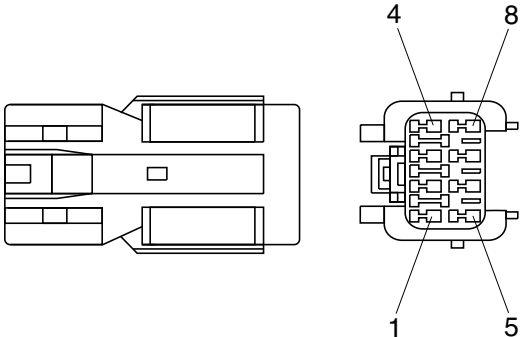
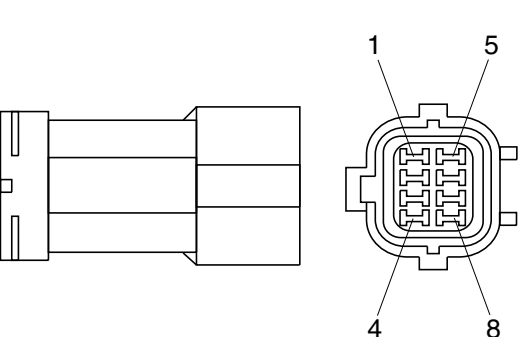
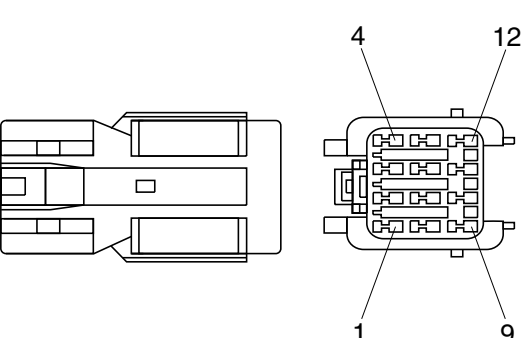
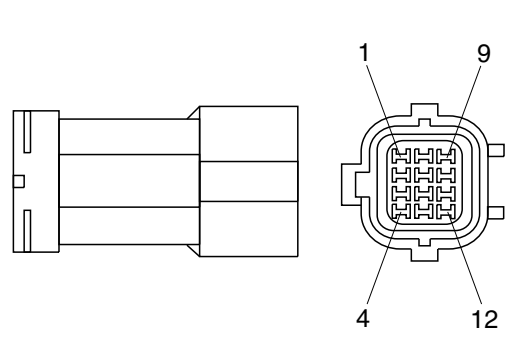
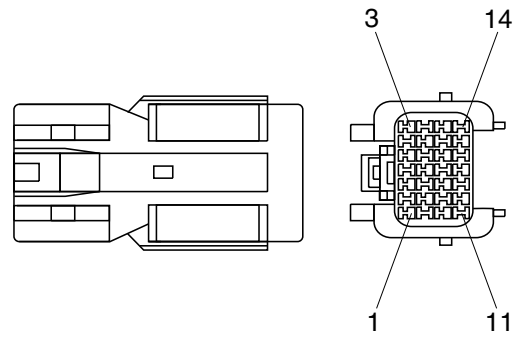
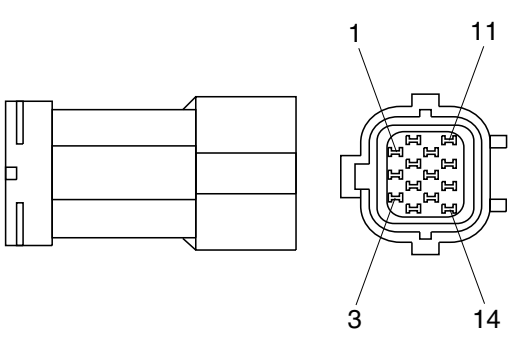
No. of pin	Receptacle connector (female)	Plug connector (male)
13	 <p style="text-align: center;">S811-013002</p>	 <p style="text-align: center;">S811-113002</p>
17	 <p style="text-align: center;">S811-017002</p>	 <p style="text-align: center;">S811-117002</p>
21	 <p style="text-align: center;">S811-021002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

2) J TYPE CONNECTOR

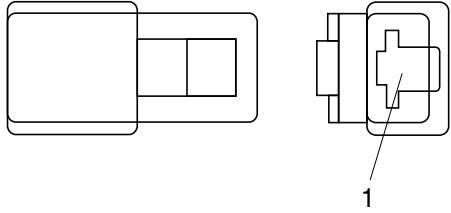
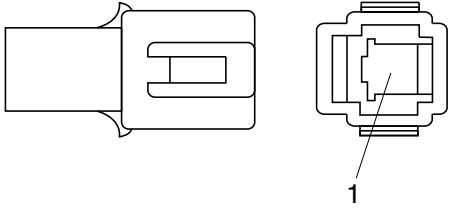
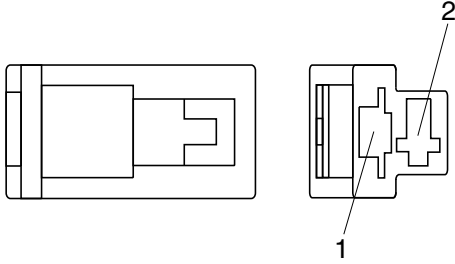
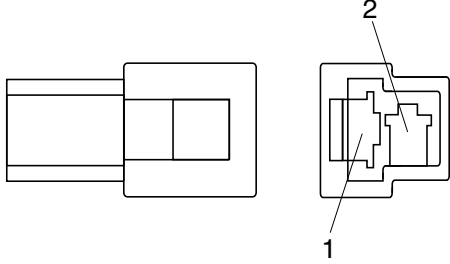
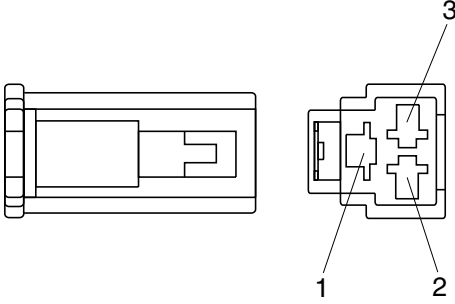
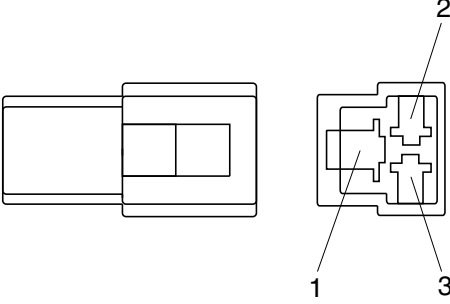
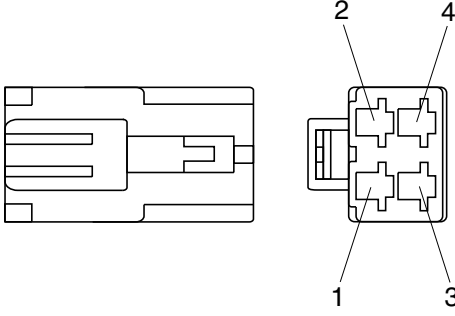
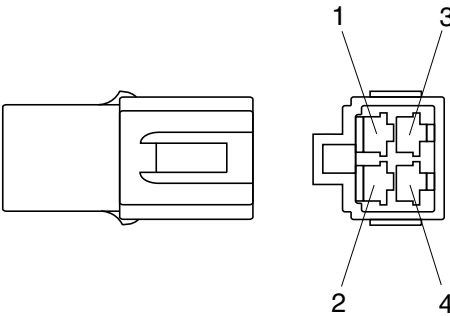
No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p style="text-align: center;">S816-002001</p>	 <p style="text-align: center;">S816-102001</p>
3	 <p style="text-align: center;">S816-003001</p>	 <p style="text-align: center;">S816-103001</p>
4	 <p style="text-align: center;">S816-004001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

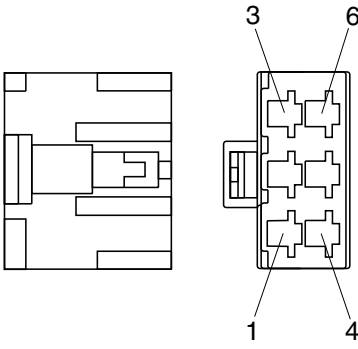
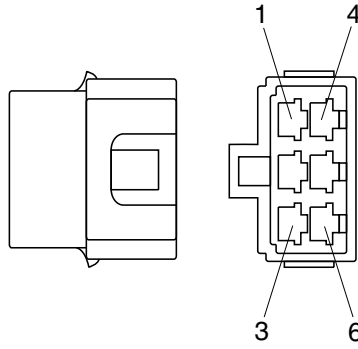
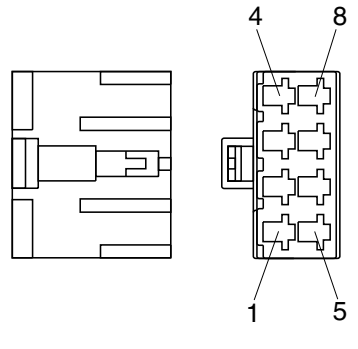
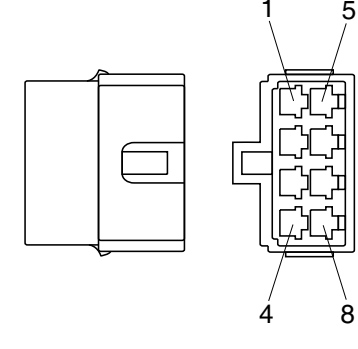
3) SWP TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p data-bbox="686 683 837 712">S814-001000</p>	 <p data-bbox="1236 683 1388 712">S814-101000</p>
2	 <p data-bbox="686 1086 837 1115">S814-002000</p>	 <p data-bbox="1236 1086 1388 1115">S814-102000</p>
3	 <p data-bbox="686 1496 837 1525">S814-003000</p>	 <p data-bbox="1236 1496 1388 1525">S814-103000</p>
4	 <p data-bbox="686 1897 837 1926">S814-004000</p>	 <p data-bbox="1236 1897 1388 1926">S814-104000</p>

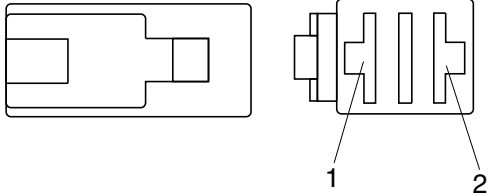
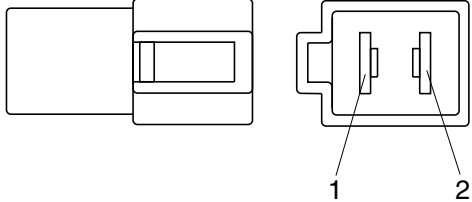
No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p data-bbox="686 638 837 672">S814-006000</p>	 <p data-bbox="1244 638 1396 672">S814-106000</p>
8	 <p data-bbox="686 1041 837 1075">S814-008000</p>	 <p data-bbox="1244 1041 1396 1075">S814-108000</p>
12	 <p data-bbox="686 1449 837 1482">S814-012000</p>	 <p data-bbox="1244 1449 1396 1482">S814-112000</p>
14	 <p data-bbox="686 1856 837 1890">S814-014000</p>	 <p data-bbox="1244 1856 1396 1890">S814-114000</p>

4) CN TYPE CONNECTOR

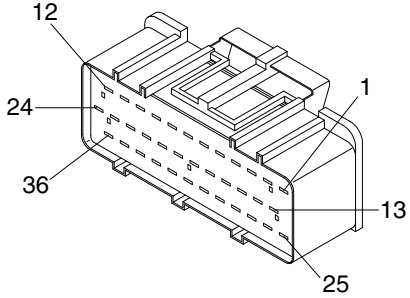
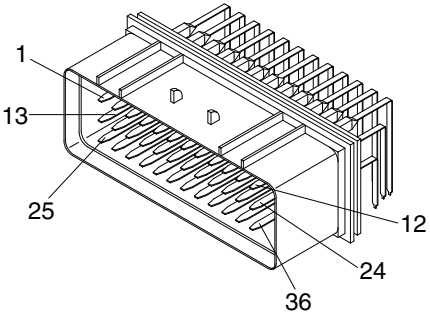
No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p style="text-align: center;">S810-001202</p>	 <p style="text-align: center;">S810-101202</p>
2	 <p style="text-align: center;">S810-002202</p>	 <p style="text-align: center;">S810-102202</p>
3	 <p style="text-align: center;">S810-003202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

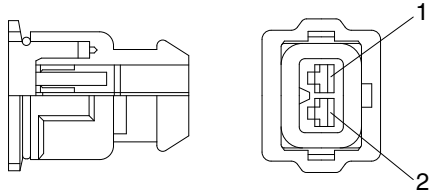
5) 375 FASTEN TYPE CONNECTOR

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>

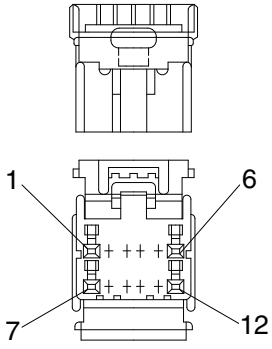
6) AMP ECONOSEAL CONNECTOR

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>

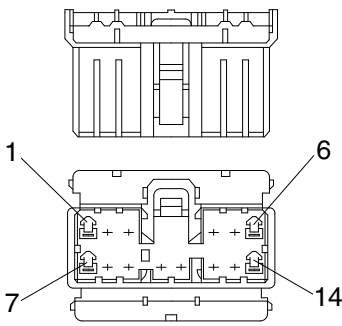
7) AMP TIMER CONNECTOR

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

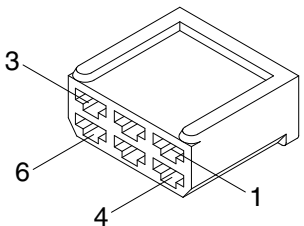
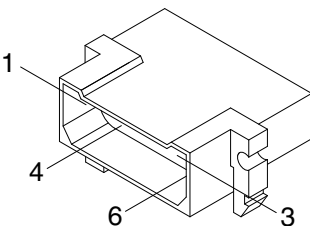
8) AMP 040 MULTILOCK CONNECTOR

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

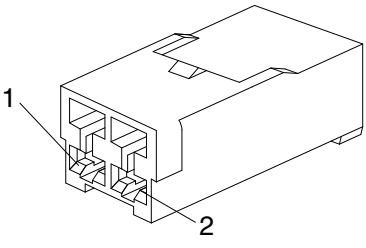
9) AMP 070 MULTILOCK CONNECTOR

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

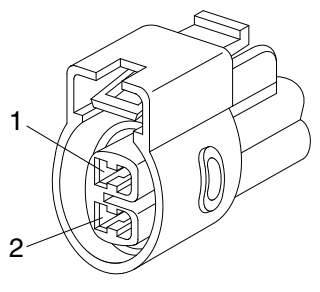
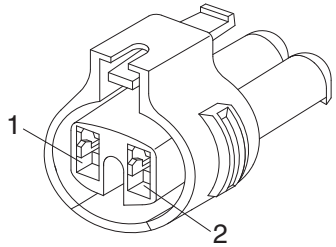
10) AMP FASTIN - FASTON CONNECTOR

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>

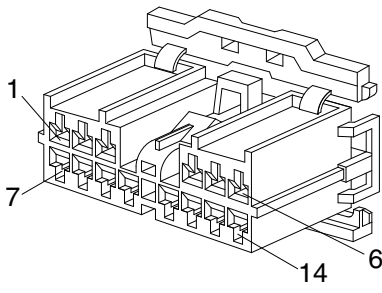
11) KET 090 CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p data-bbox="710 672 837 705">MG610070</p>	

12) KET 090 WP CONNECTORS

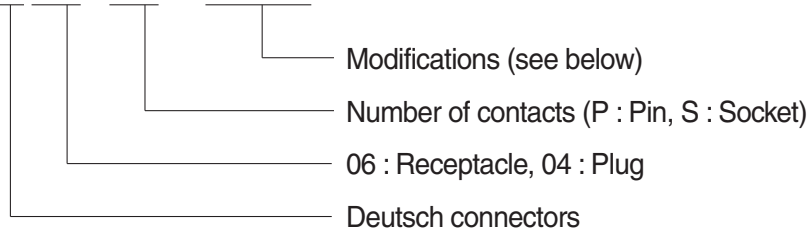
No. of pin	Receptacle connector (female)	Plug connector (male)
2	 <p data-bbox="710 1276 837 1310">MG640605</p>	
2	 <p data-bbox="710 1680 837 1713">MG640795</p>	

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

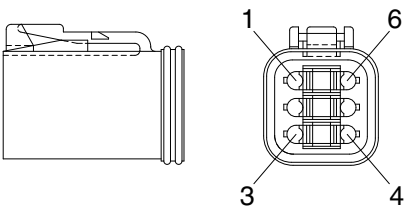
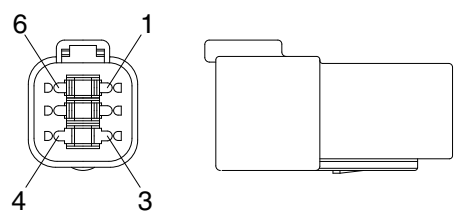
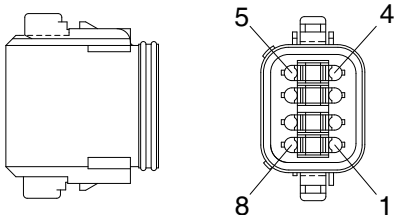
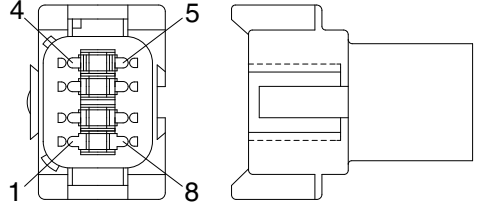
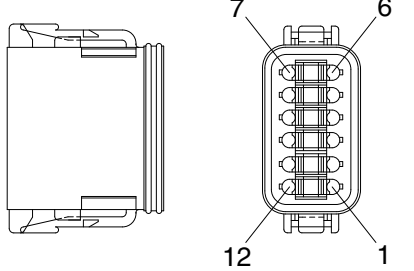
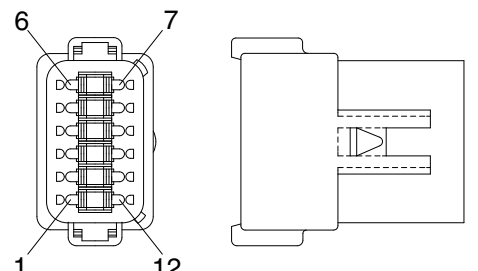
E005 : Combination - E004 & E003

EP04 : End cap

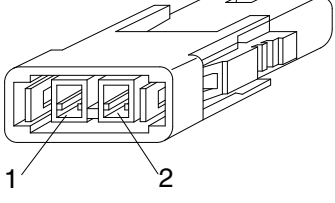
EP06 : Combination P012 & EP04

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

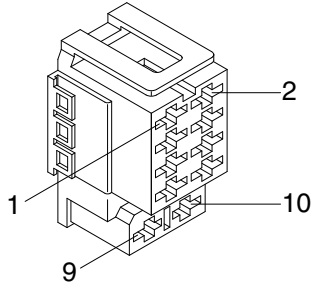
No. of pin	Receptacle connector (female)	Plug connector (male)
2	<p>DT06-2S</p>	<p>DT04-2P</p>
3	<p>DT06-3S</p>	<p>DT04-3P</p>
4	<p>DT06-4S</p>	<p>DT04-4P</p>

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>

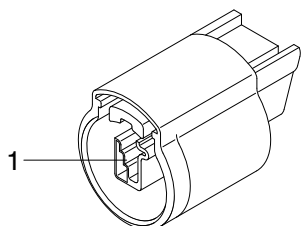
15) MOLEX 2CKTS CONNECTOR

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

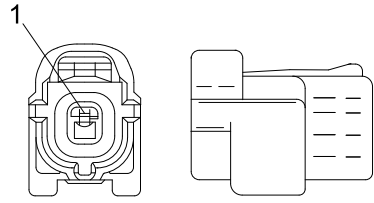
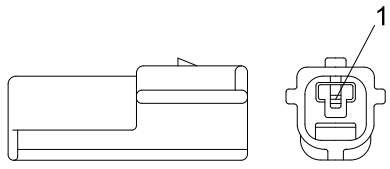
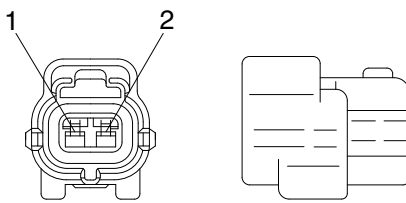
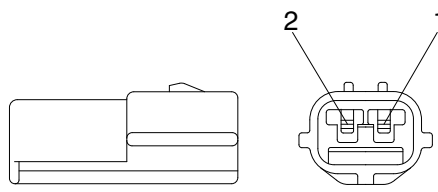
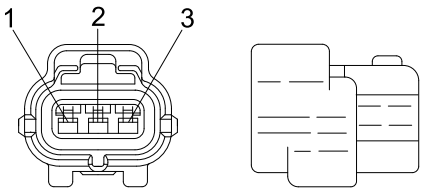
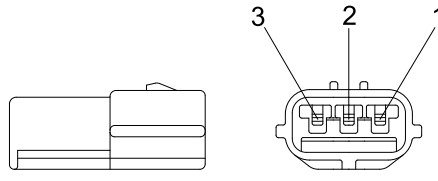
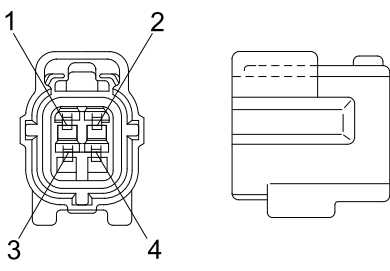
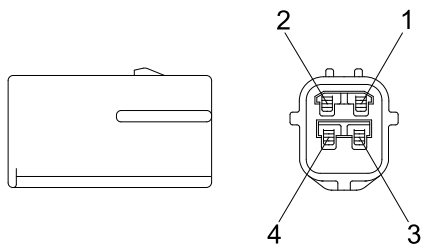
16) ITT SWF CONNECTOR

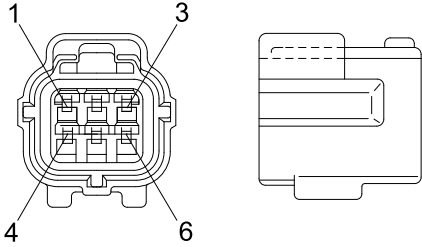
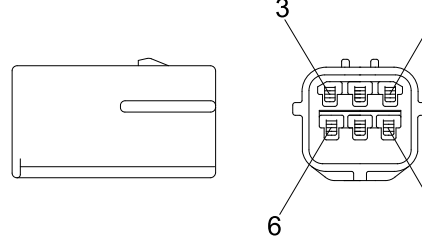
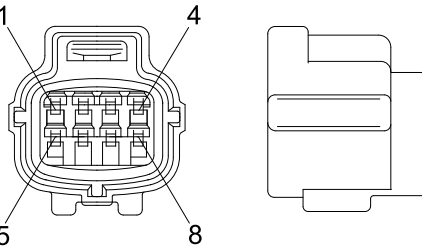
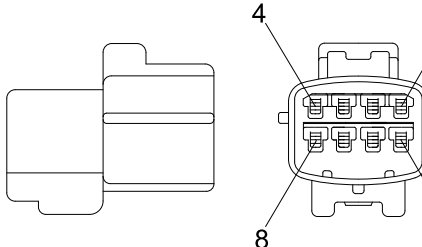
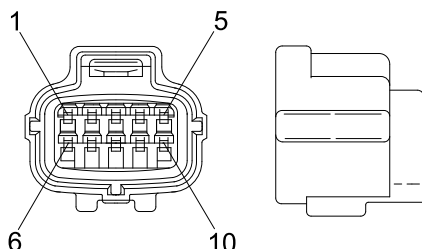
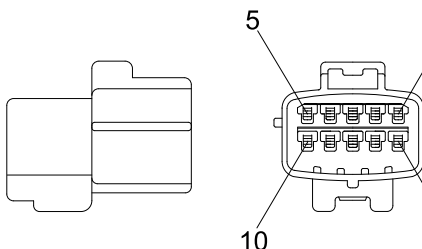
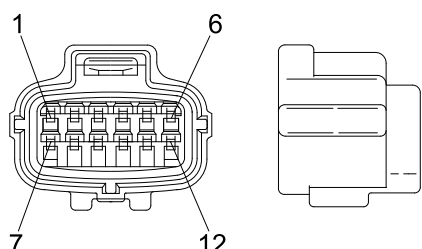
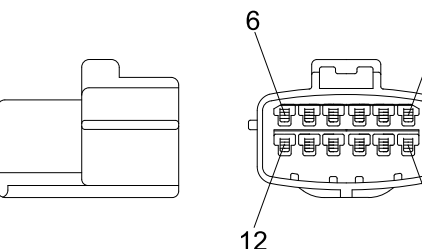
No. of pin	Receptacle connector (female)	Plug connector (male)
10	 <p data-bbox="694 1288 837 1310">SWF593757</p>	

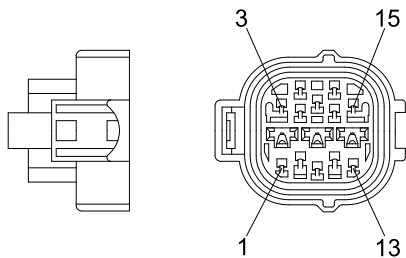
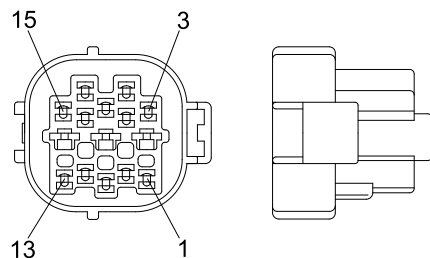
17) MWP NMWP CONNECTOR

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

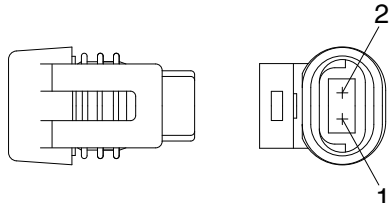
18) ECONOSEAL J TYPE CONNECTORS

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 <p data-bbox="686 672 837 705">S816-001002</p>	 <p data-bbox="1236 672 1388 705">S816-101002</p>
2	 <p data-bbox="686 1075 837 1108">S816-002002</p>	 <p data-bbox="1236 1075 1388 1108">S816-102002</p>
3	 <p data-bbox="686 1478 837 1512">S816-003002</p>	 <p data-bbox="1236 1478 1388 1512">S816-103002</p>
4	 <p data-bbox="686 1892 837 1926">S816-004002</p>	 <p data-bbox="1236 1892 1388 1926">S816-104002</p>

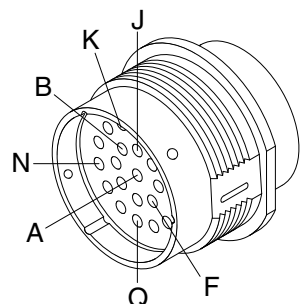
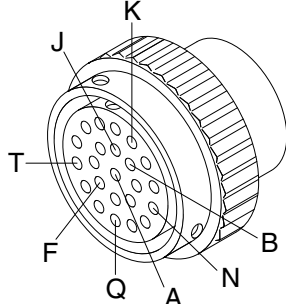
No. of pin	Receptacle connector (female)	Plug connector (male)
6	 <p style="text-align: center;">S816-006002</p>	 <p style="text-align: center;">S816-106002</p>
8	 <p style="text-align: center;">S816-008002</p>	 <p style="text-align: center;">S816-108002</p>
10	 <p style="text-align: center;">S816-010002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

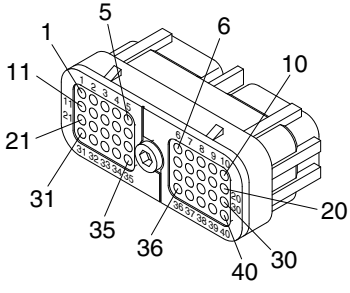
19) METRI-PACK TYPE CONNECTOR

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

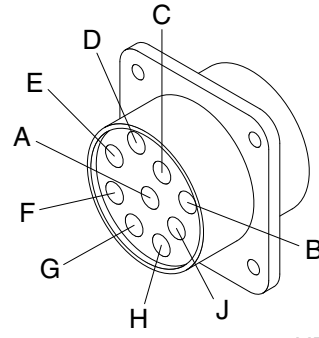
20) DEUTSCH HD30 CONNECTOR

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>

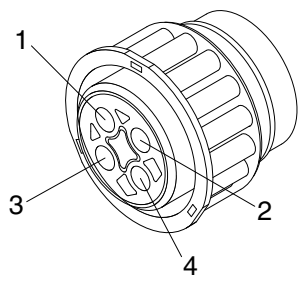
21) DEUTSCH MCU CONNECTOR (SERIAL NO. : -#0610)

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

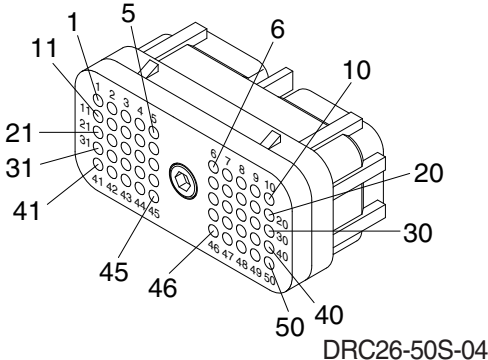
22) DEUTSCH SERVICE TOOL CONNECTOR

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

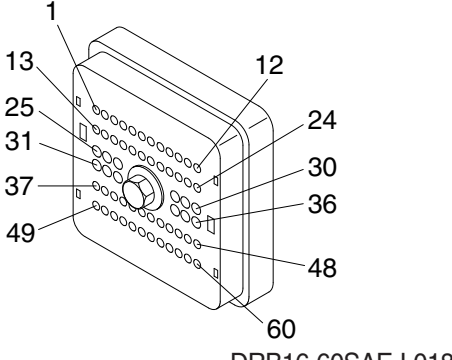
23) AMP FUEL WARMER CONNECTOR

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

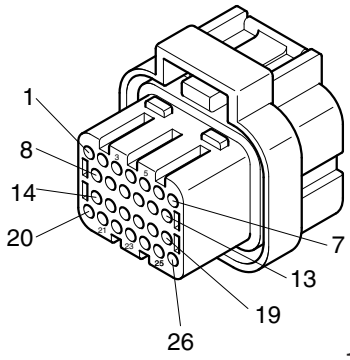
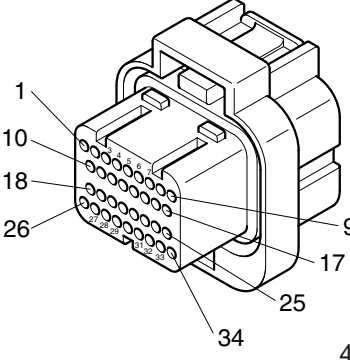
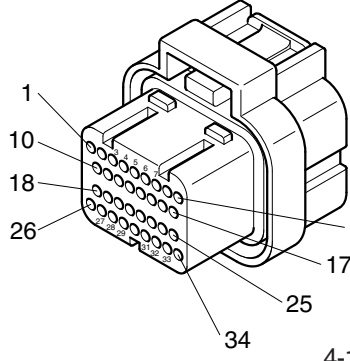
24) DEUTSCH ENGINE ECM CONNECTOR

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>	

26) TE MCU CONNECTOR (SERIAL NO. : #0611-)

No. of pin	Receptacle connector (Female)	Plug connector (Male)
26	 <p>1473416-1</p>	
34	 <p>4-1437290-0</p>	
34	 <p>4-1437290-1</p>	