

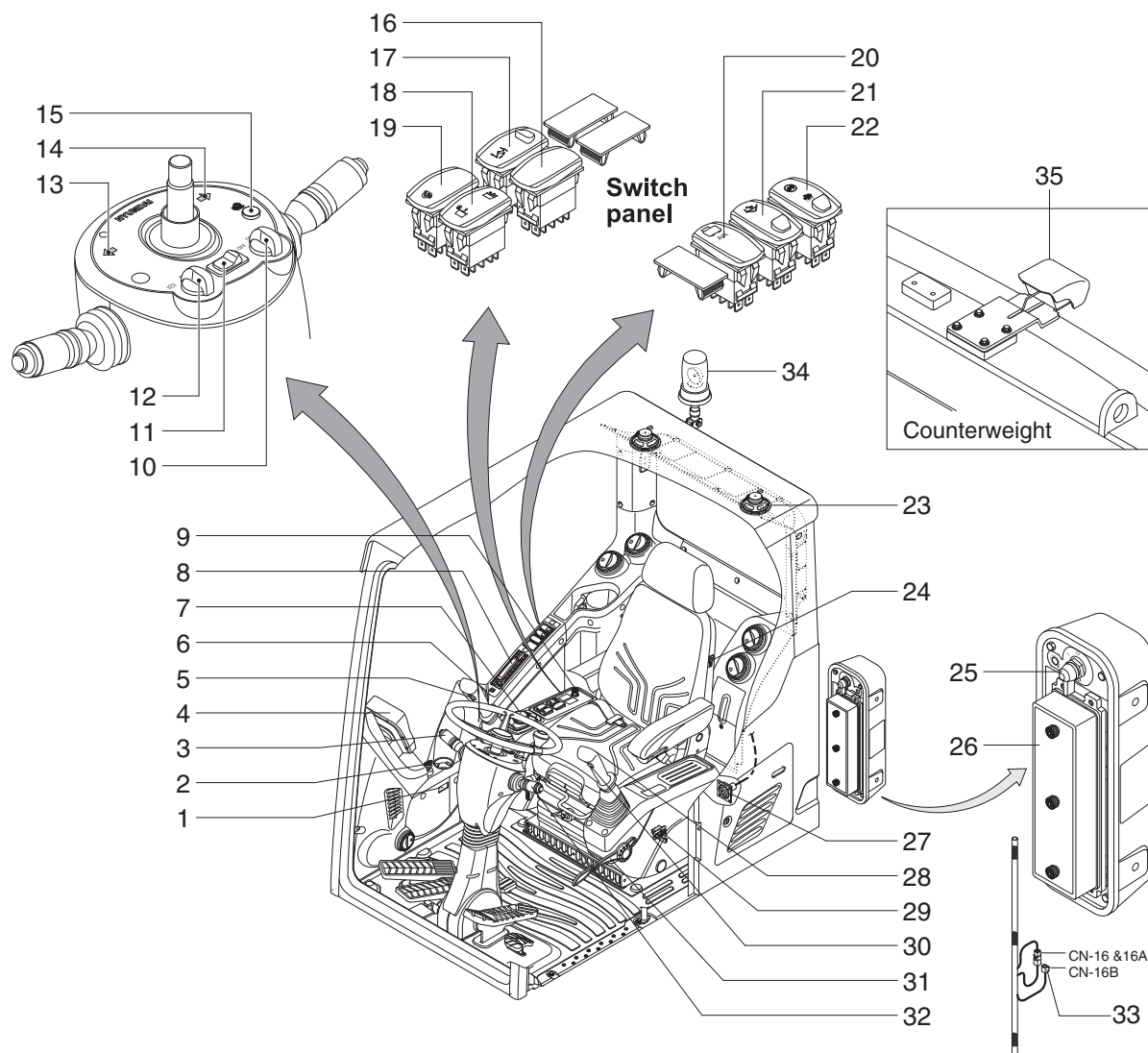
SECTION 4 ELECTRICAL SYSTEM

Group 1 Component Location	4-1
Group 2 Electrical Circuit	4-3
Group 3 Electrical Component Specification	4-25
Group 4 Connectors	4-37

SECTION 4 ELECTRICAL SYSTEM

GROUP 1 COMPONENT LOCATION

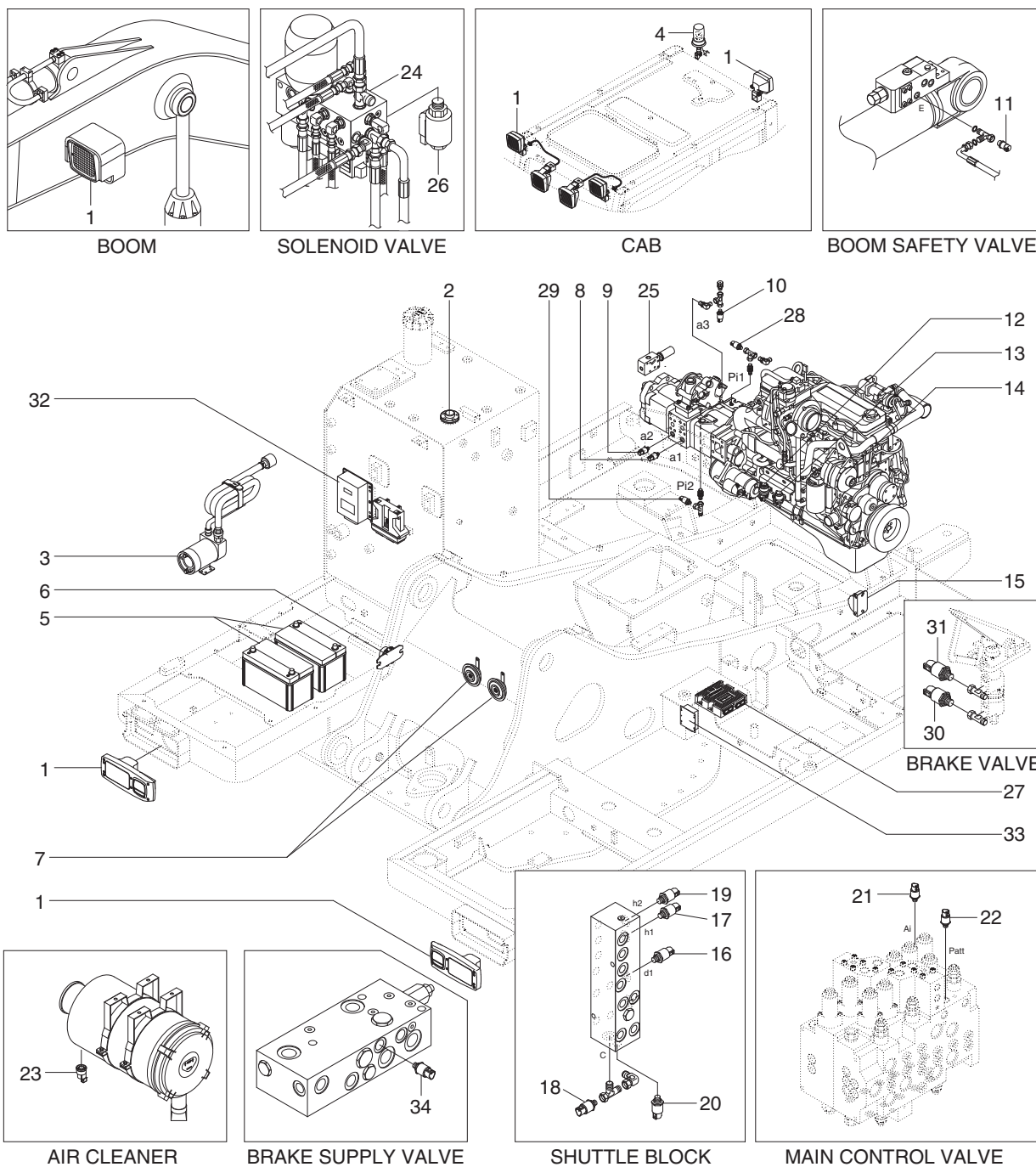
1. LOCATION 1



210WF4EL01

1 Service meter	13 Left turning pilot lamp	25 Master switch
2 Start switch	14 Right turning pilot lamp	26 Fuse & relay box
3 Multi function switch (RH)	15 Creep button	27 RS232 & J1939 service socket
4 Cluster	16 Option attach switch	28 One touch decel switch
5 Breaker operation switch	17 Boom floating switch	29 Emergency engine stop switch
6 Horn switch	18 Swing lock/fine switch	30 Power max switch
7 Haptic controller	19 Creep switch	31 Safety lever
8 Radio & USB player	20 Air compressor switch	32 Multi function switch (LH)
9 Cigar lighter	21 Quick clamp switch	33 Emergency engine speed control connector
10 Ram lock rotary switch	22 SCR system cleaning switch	
11 Hazard switch	23 Speaker	34 Beacon lamp
12 Select rotary switch	24 Heated seat switch	35 Rear view camera

2. LOCATION 2

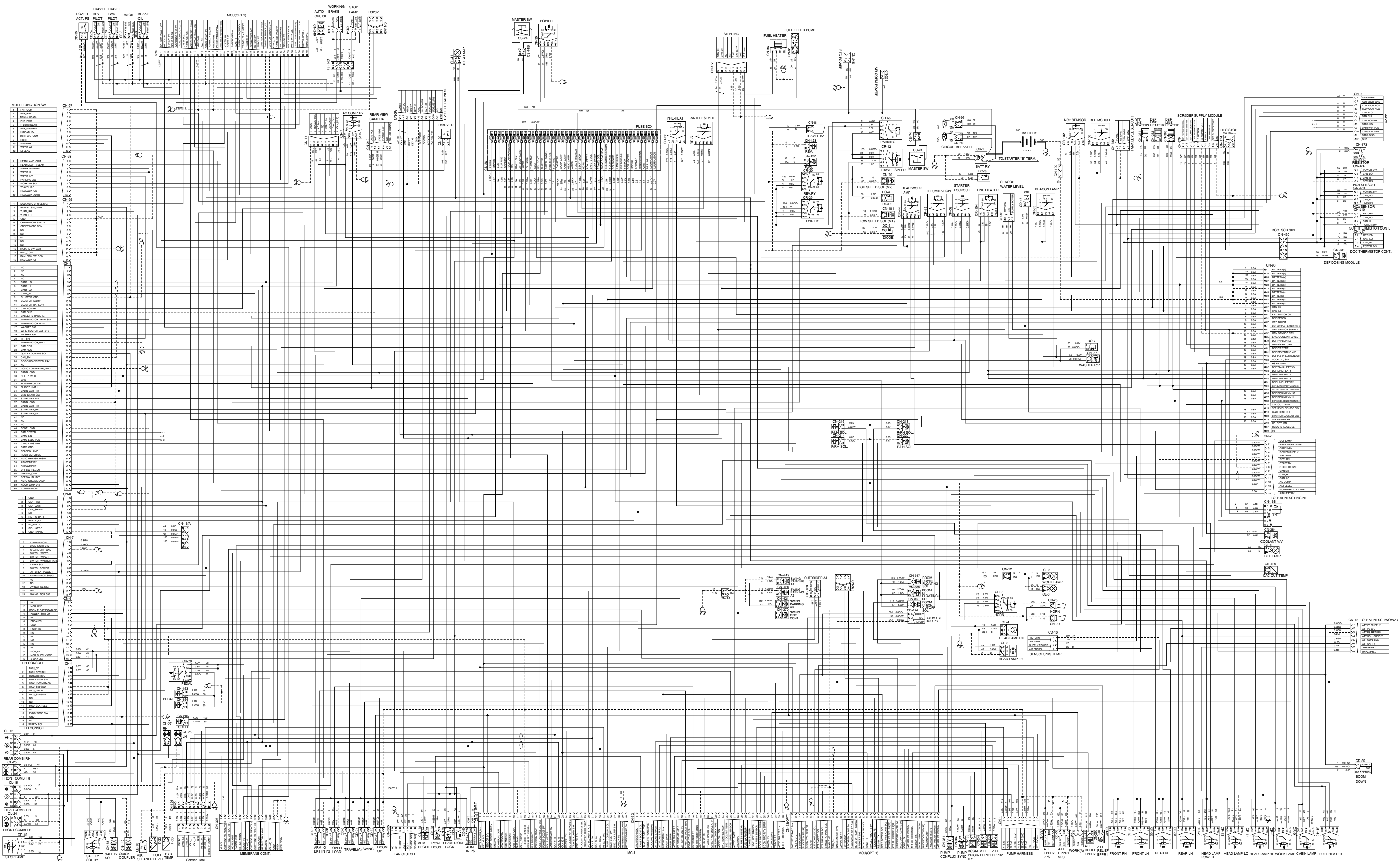


140WF4EL02

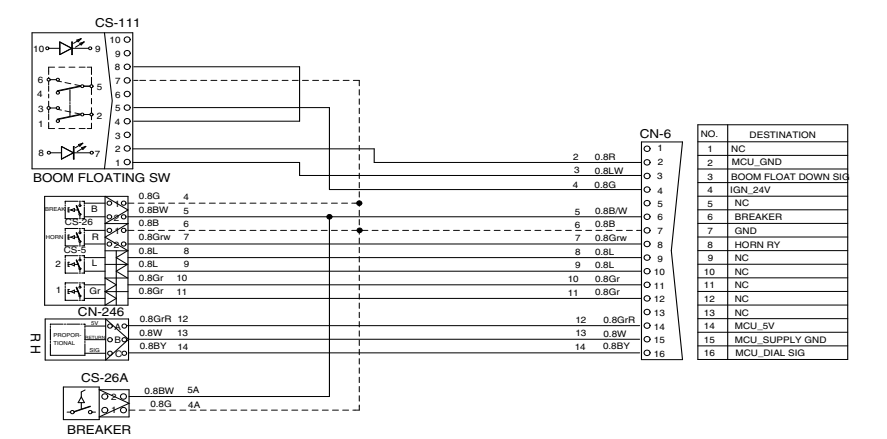
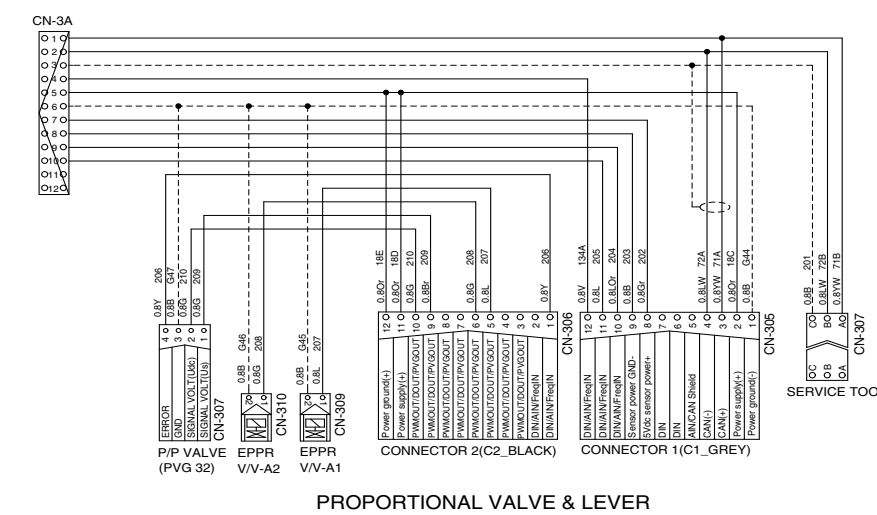
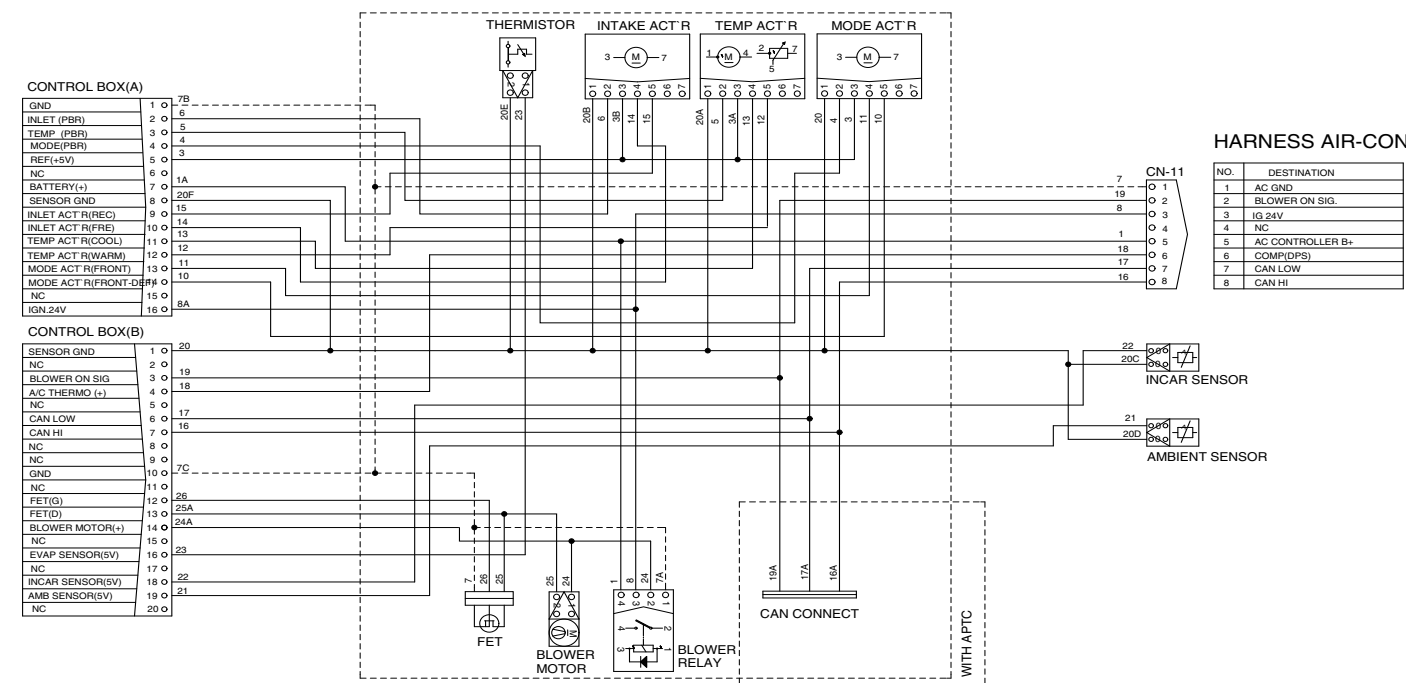
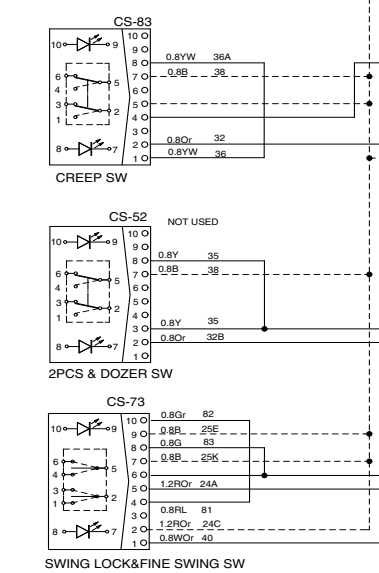
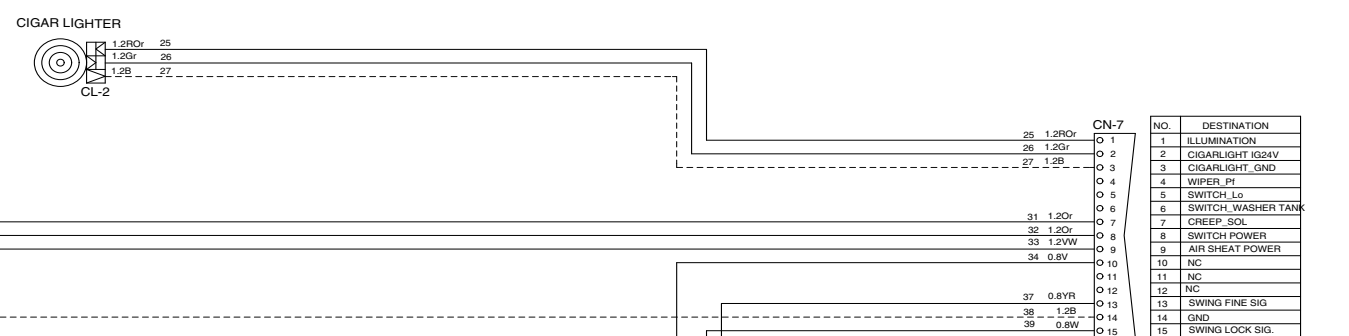
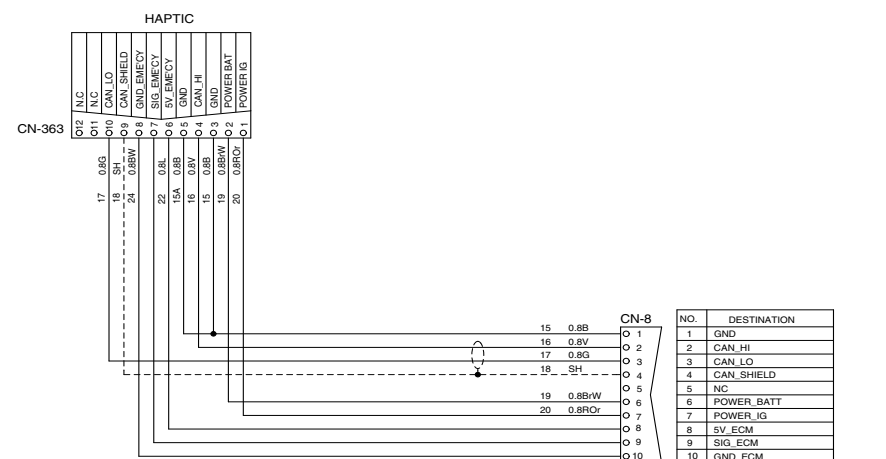
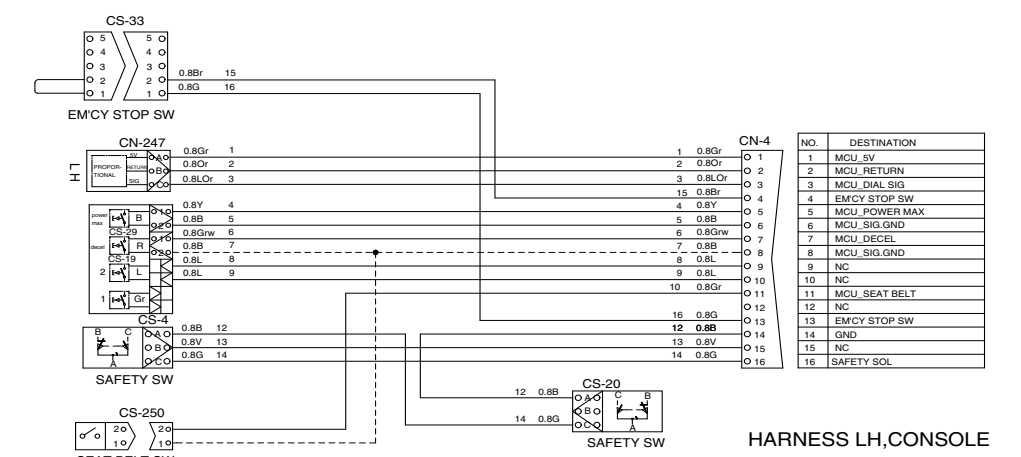
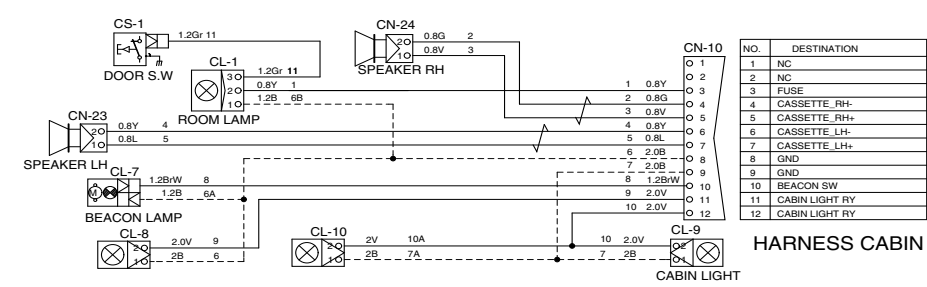
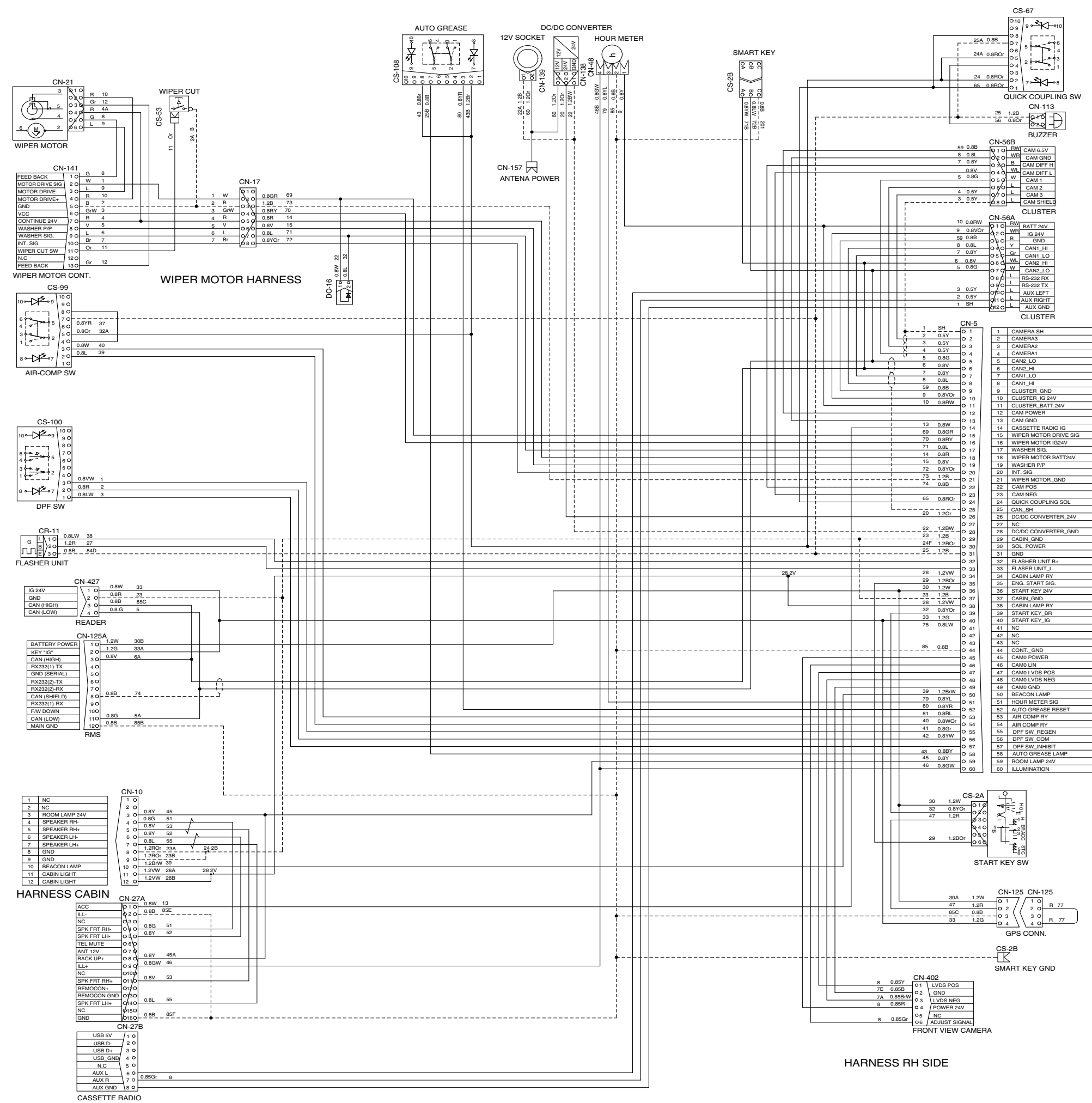
- | | | |
|-----------------------------|----------------------------------|-------------------------------------|
| 1 Lamp | 13 Heater relay | 25 Pump EPPR valve |
| 2 Fuel sender | 14 Alternator | 26 Boom priority EPPR valve |
| 3 Fuel filler pump | 15 Travel alarm buzzer | 27 MCU |
| 4 Beacon lamp | 16 Arm/Bucket in pressure sensor | 28 Nega 1 pressure sensor |
| 5 Battery | 17 Boom up pressure sensor | 29 Nega 2 pressure sensor |
| 6 Battery relay | 18 Swing pressure sensor | 30 Brake pressure sensor |
| 7 Horn | 19 Boom down pressure sensor | 31 Brake pilot lamp pressure switch |
| 8 P1 pressure sensor | 20 Arm in pressure sensor | 32 MCU (opt) |
| 9 P2 pressure sensor | 21 Travel pressure sensor | 33 MCU (opt) |
| 10 EPPR pressure sensor | 22 Attachment pressure sensor | 34 Transmission oil pressure sensor |
| 11 Overload pressure sensor | 23 Air cleaner sensor | |
| 12 Start relay | 24 5 cartridge valve | |

GROUP 2 ELECTRICAL CIRCUIT

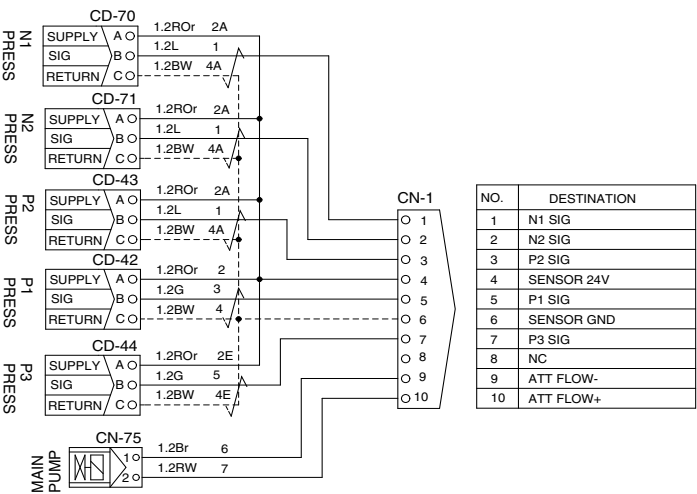
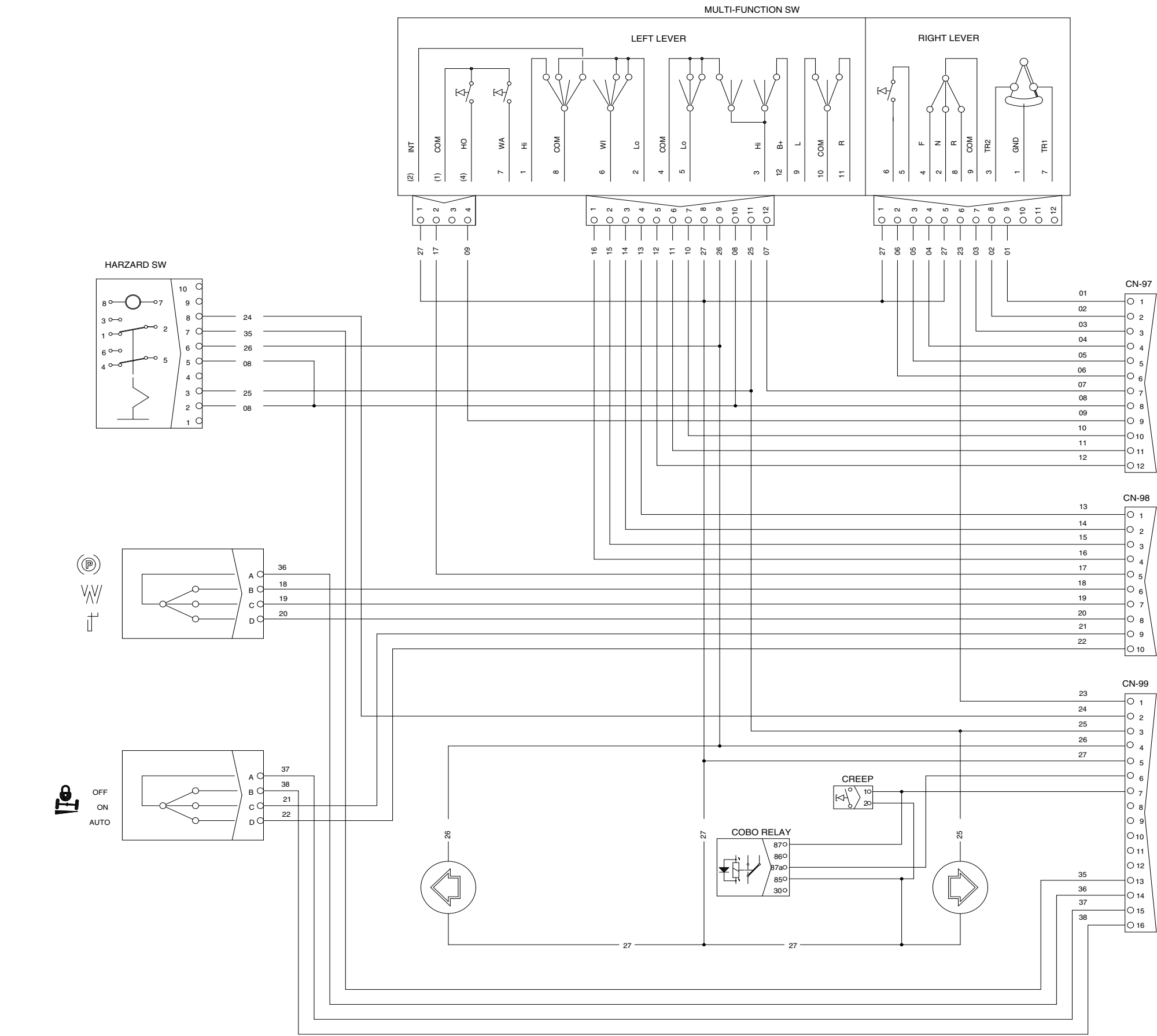
· ELECTRICAL CIRCUIT (1/6, MACHINE SERIAL NO. HW160 : -#0175, HW180 : -#0094)



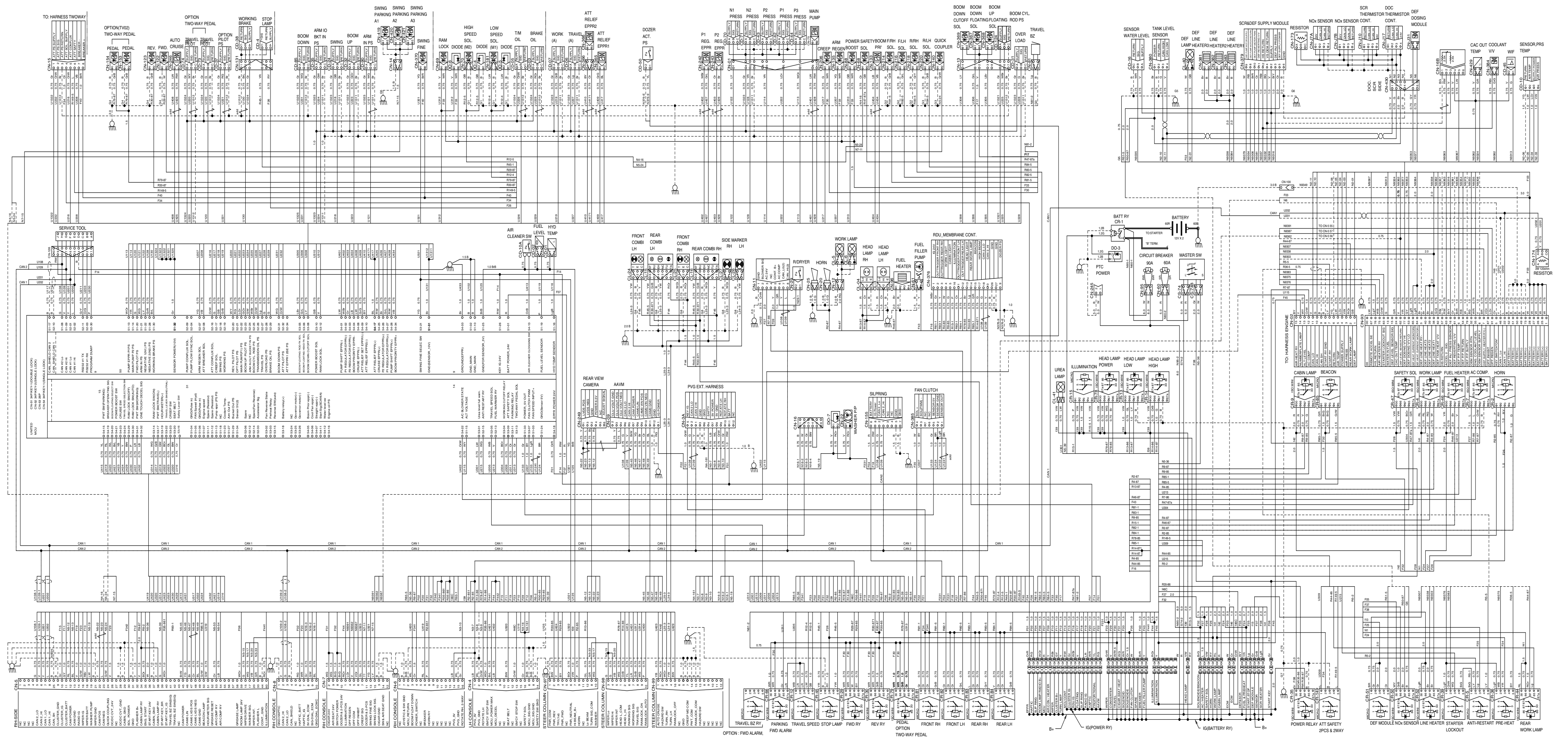
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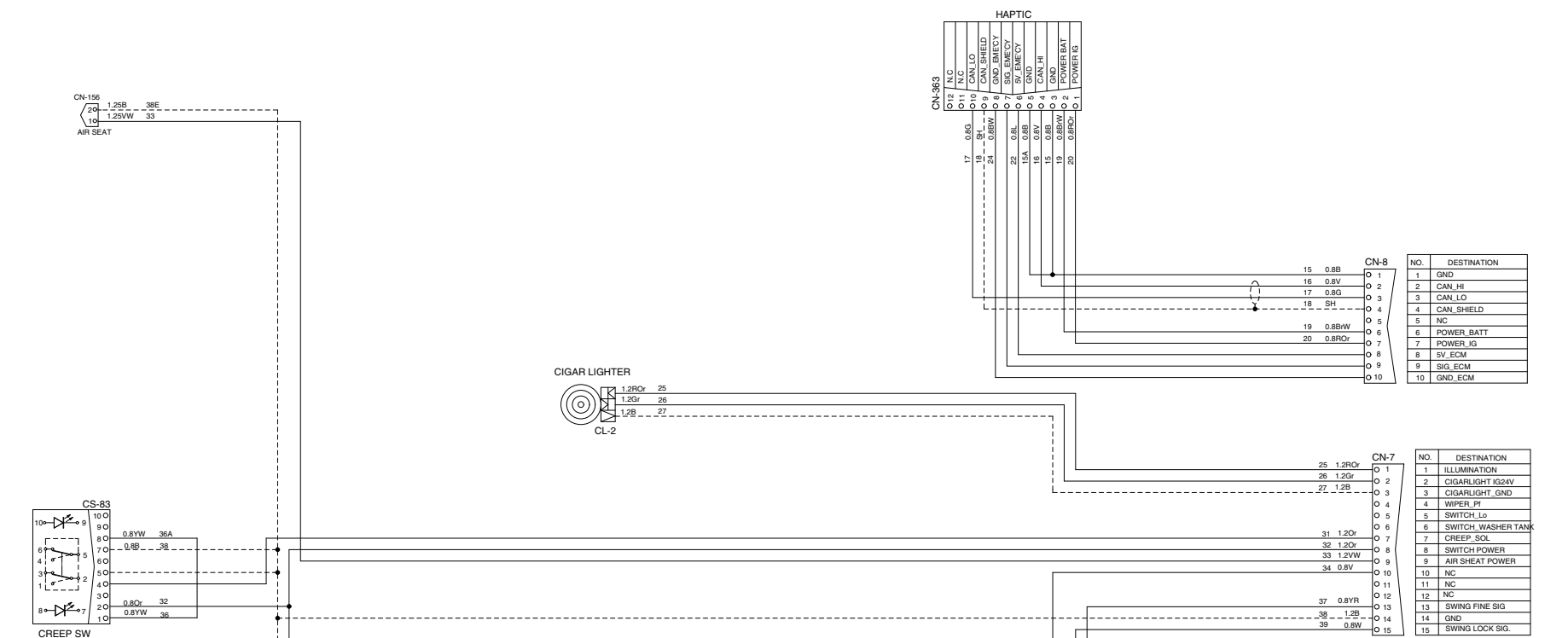
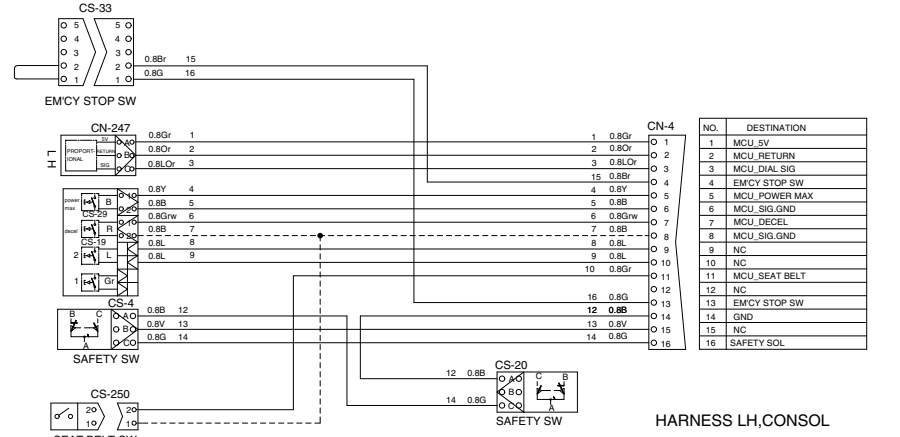
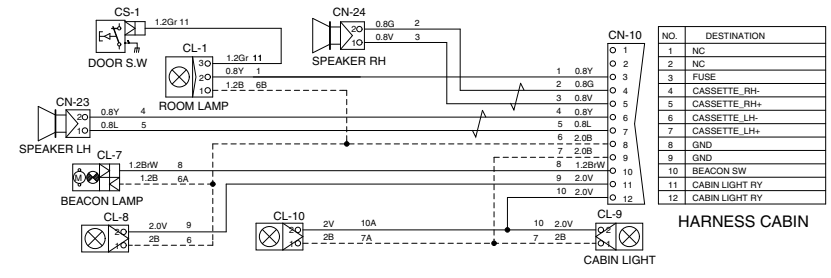
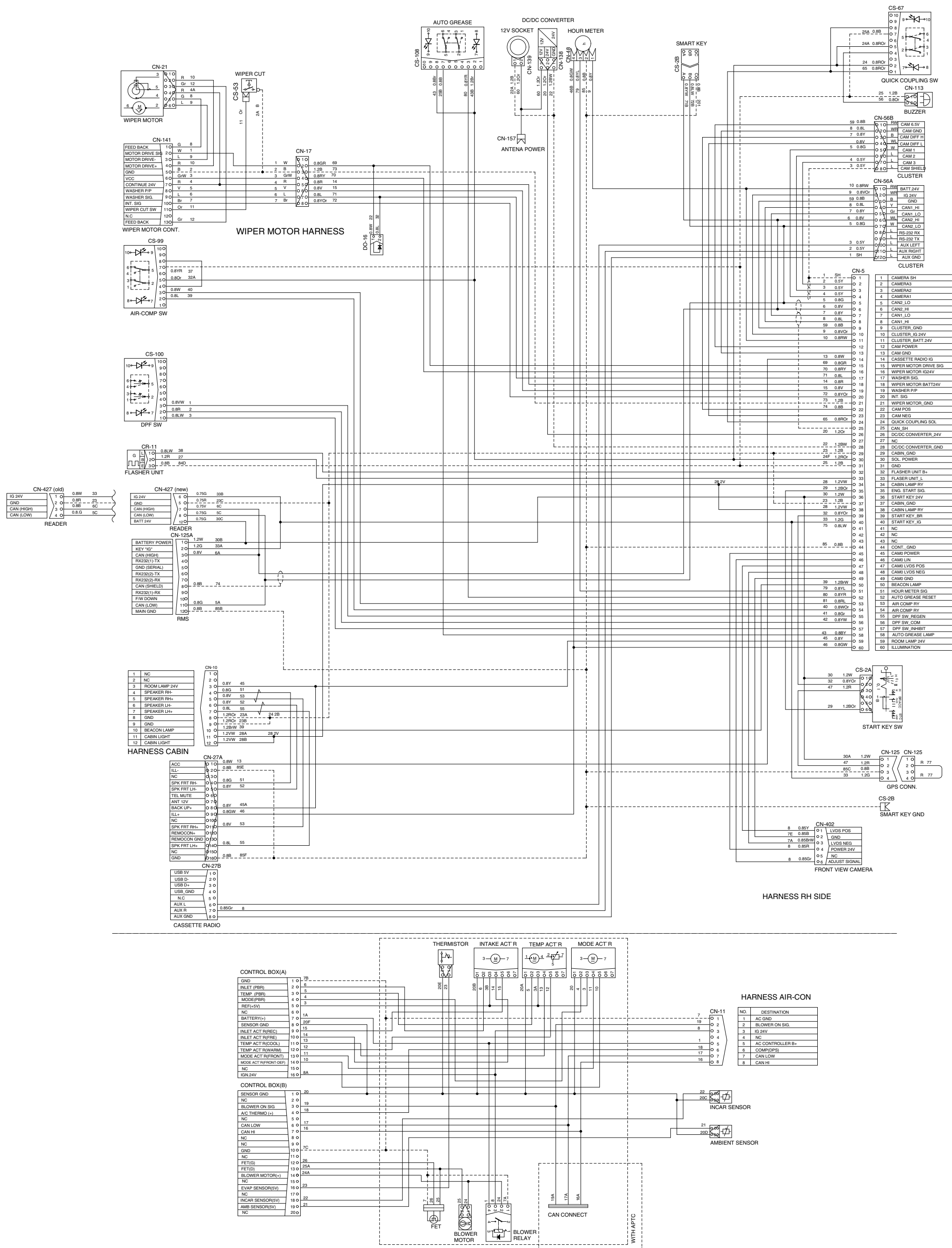
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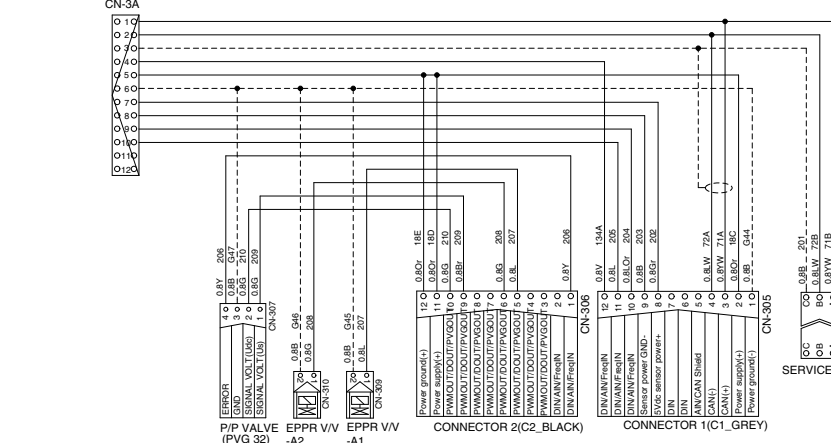
· ELECTRICAL CIRCUIT (4/6, MACHINE SERIAL NO. HW160 : #0176-, HW180 : #0095-)



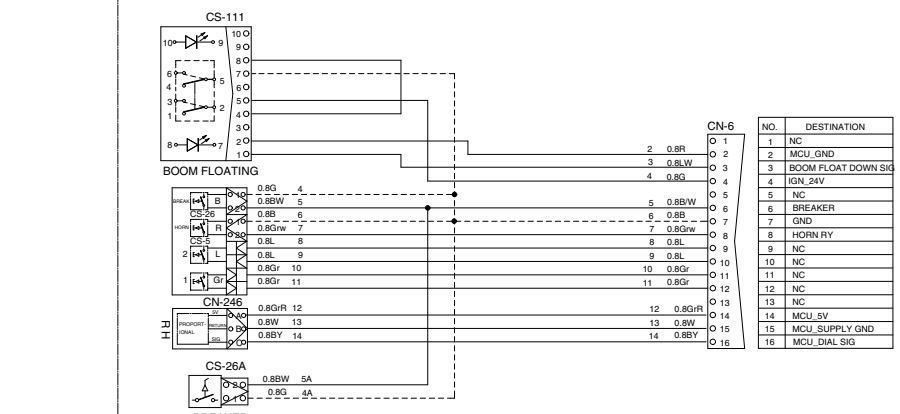
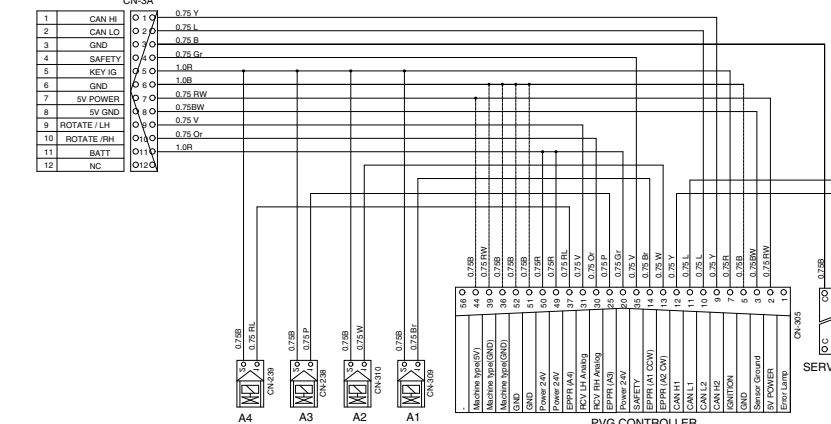
ELECTRICAL CIRCUIT (5/6, MACHINE SERIAL NO. HW160 : #0176-, HW180 : #0095-)



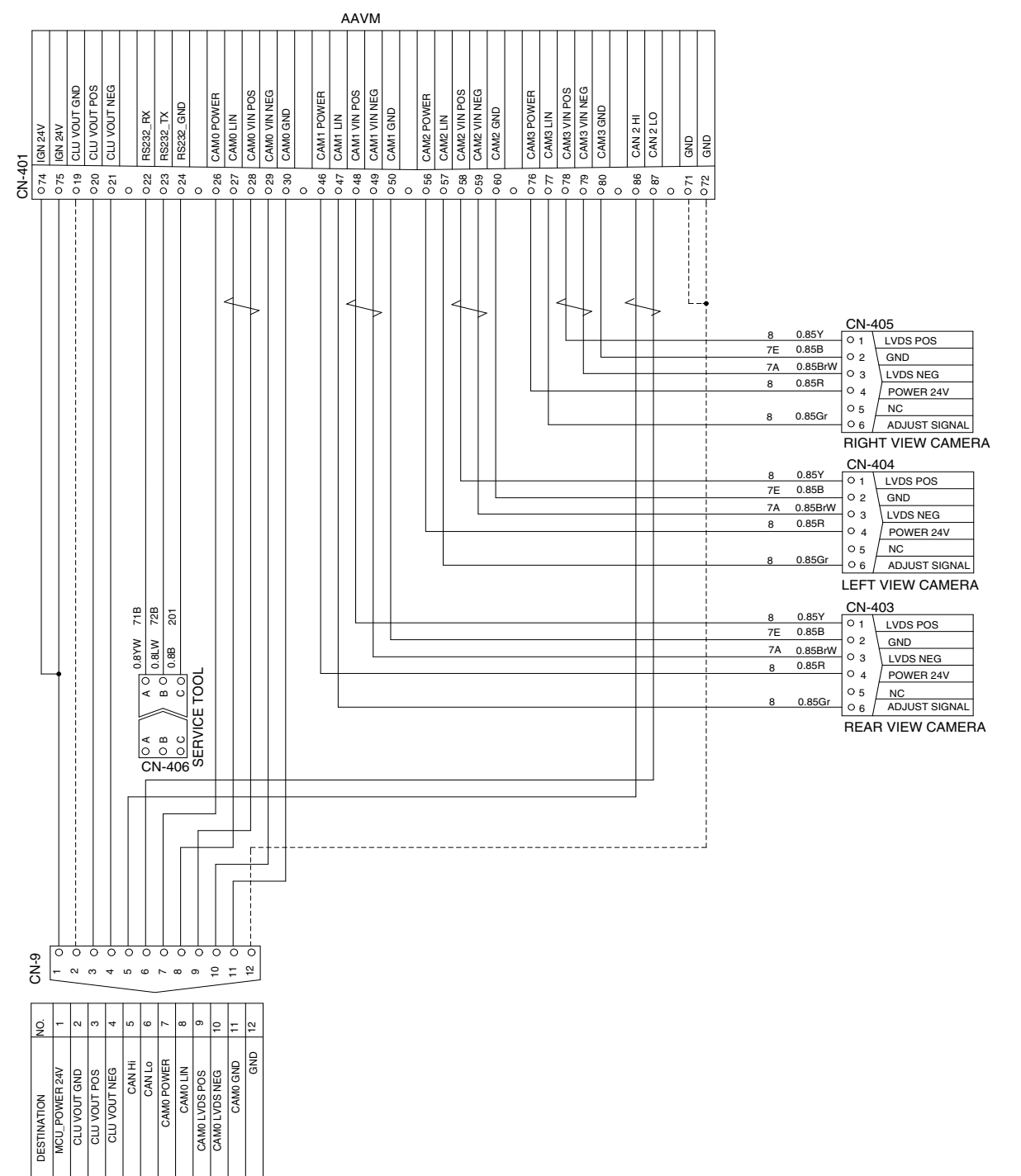
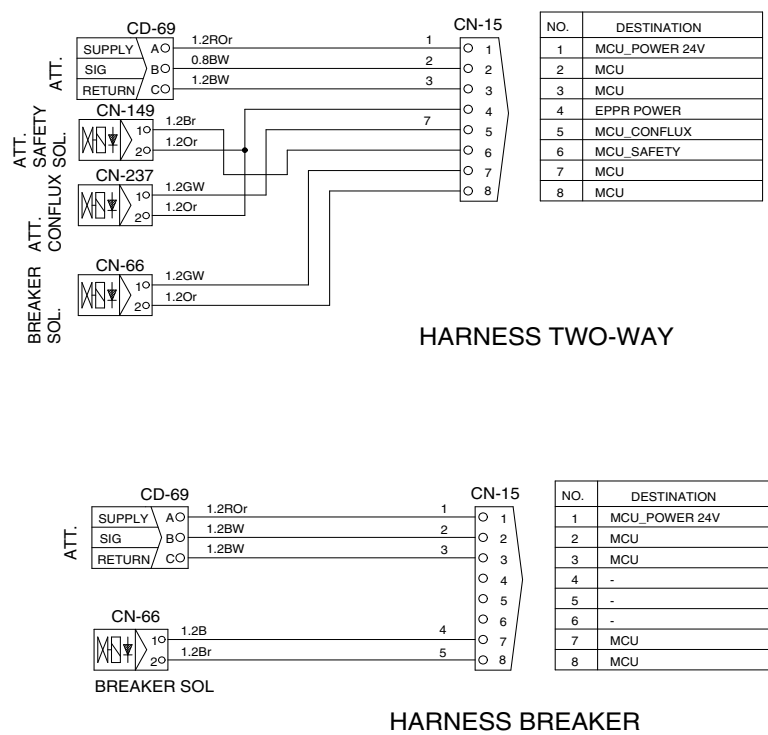
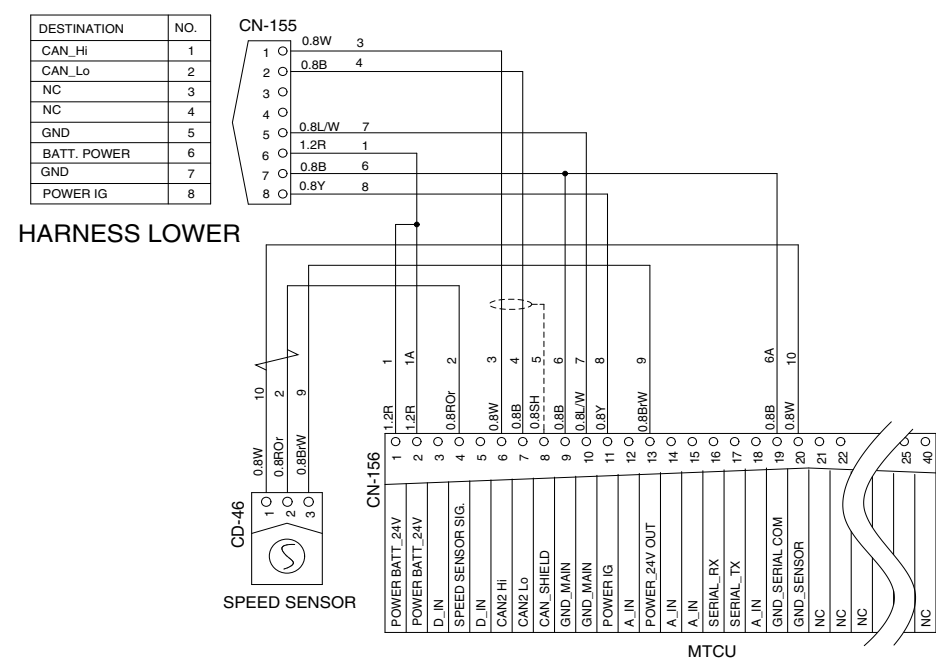
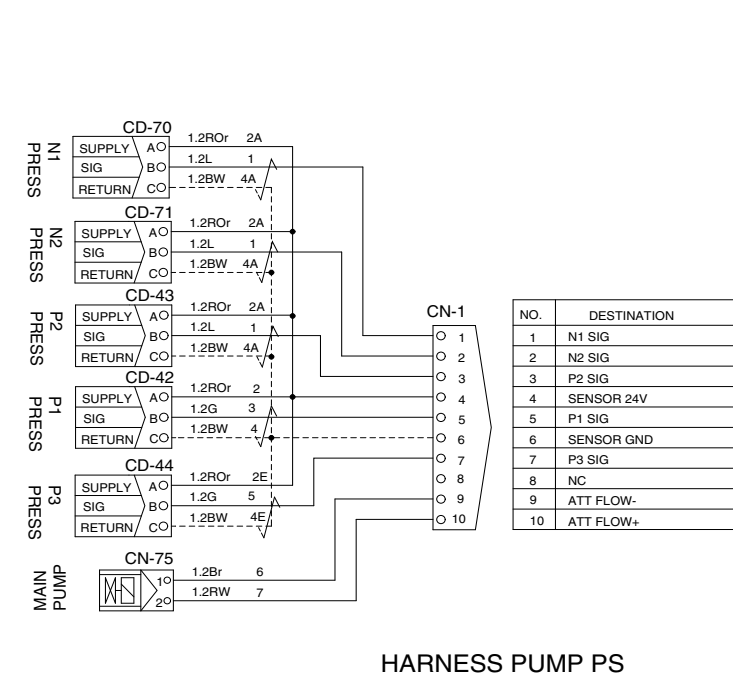
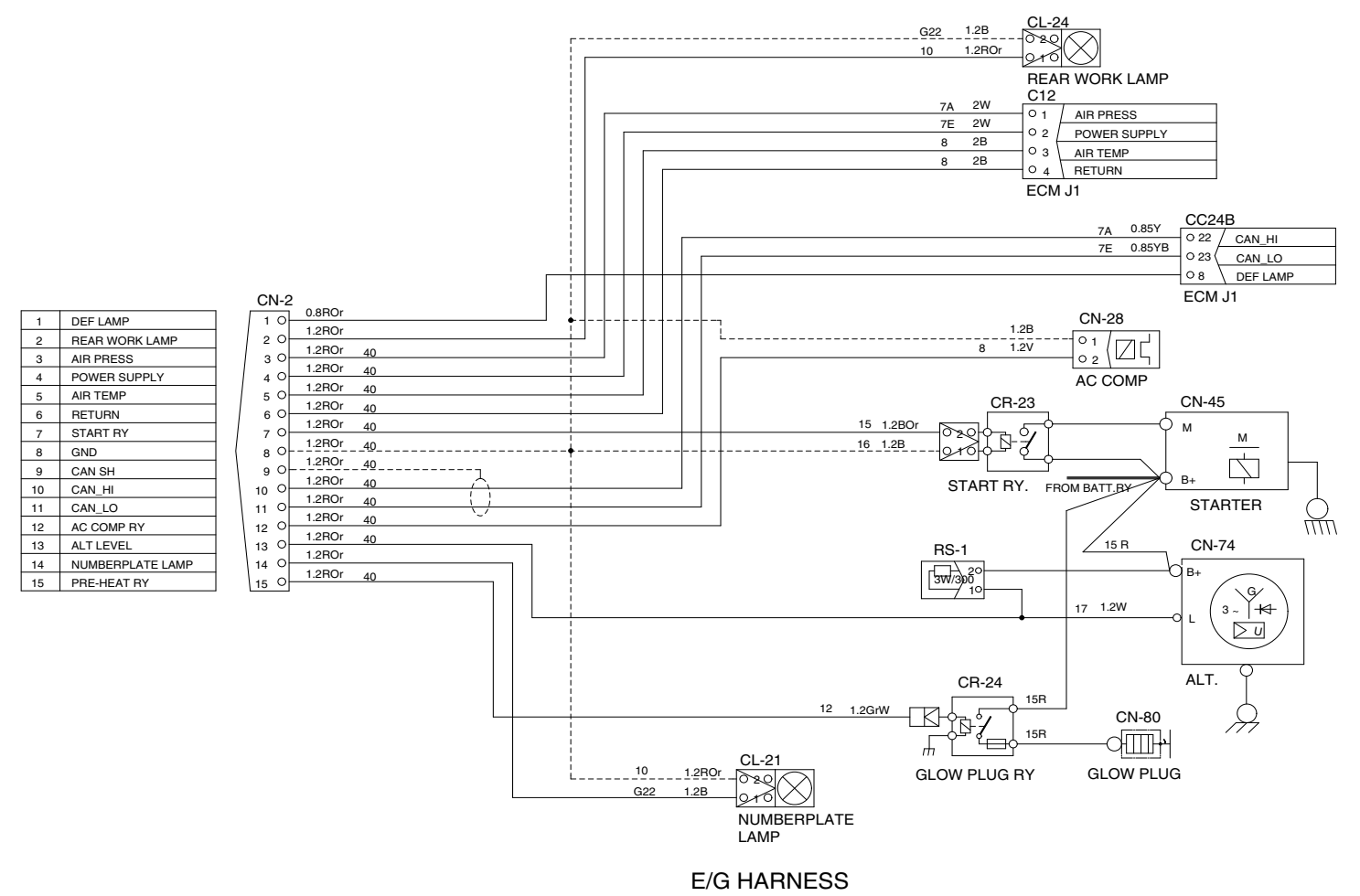
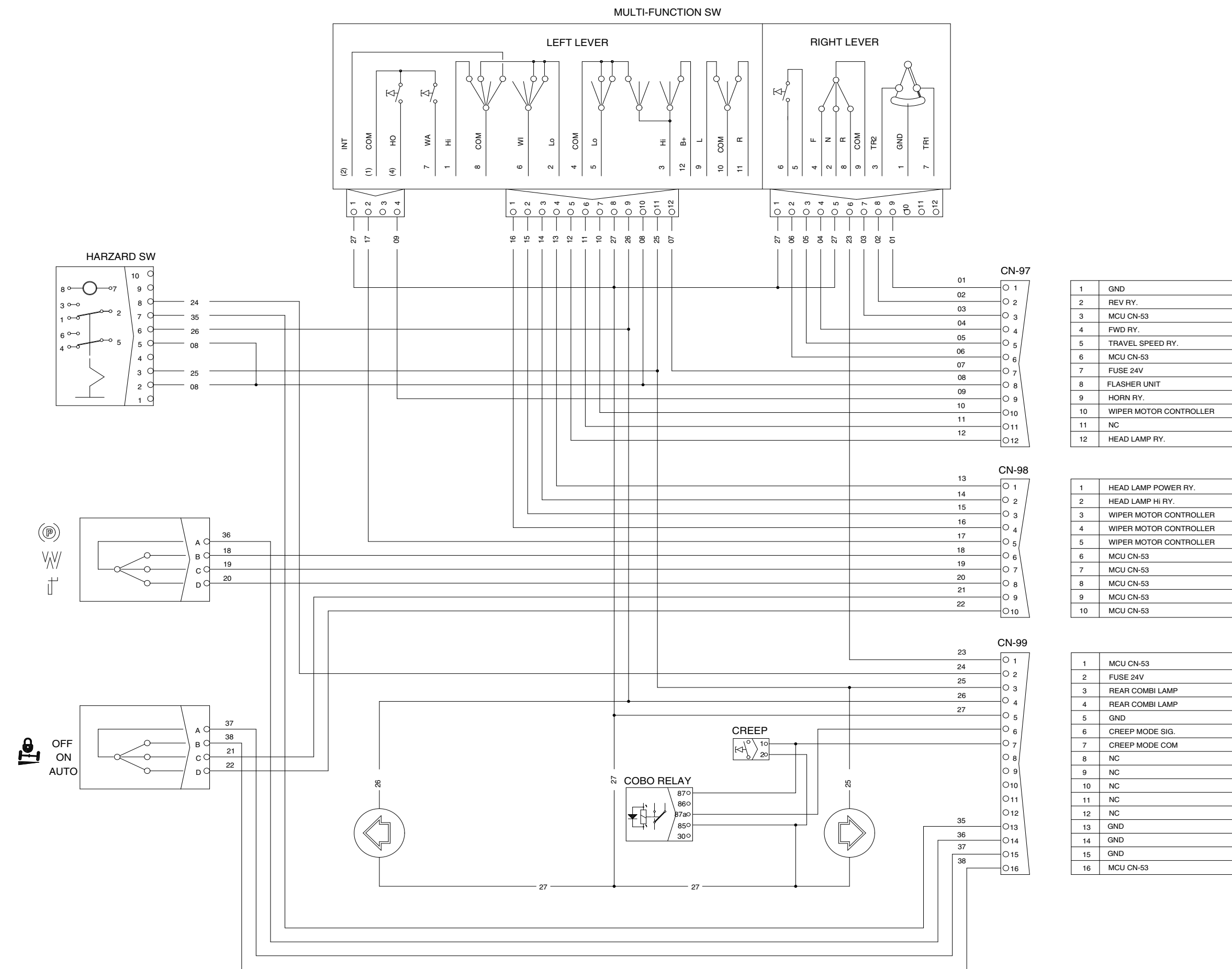
Machine Serial No. HW160 : -#0175, HW180 : -#0132



Machine Serial No. HW160 : -#0176-, HW180 : -#0133-



ELECTRICAL CIRCUIT (6/6, MACHINE SERIAL NO. HW160 : #0176-, HW180 : #0095-)



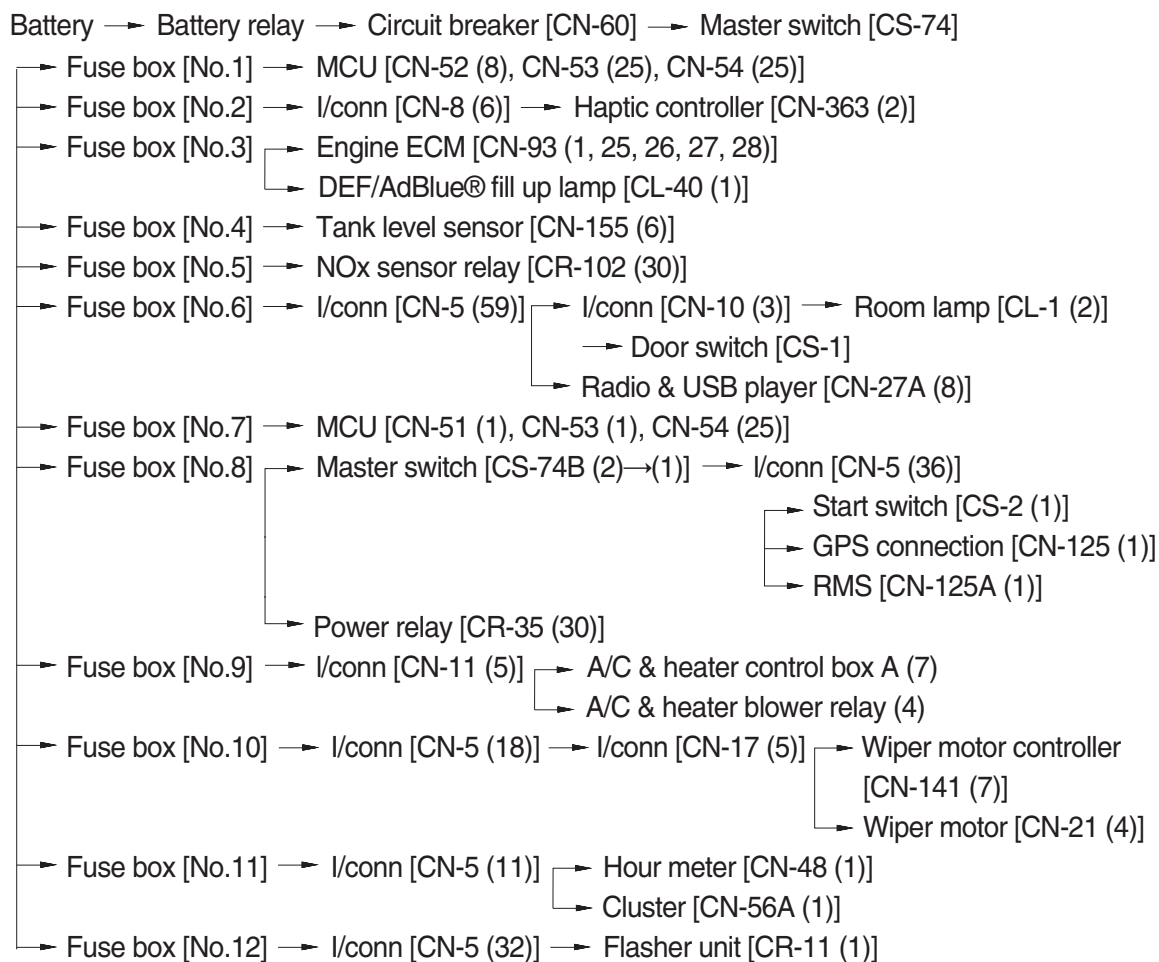
MEMORANDUM

1. POWER CIRCUIT

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

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

1) OPERATING FLOW



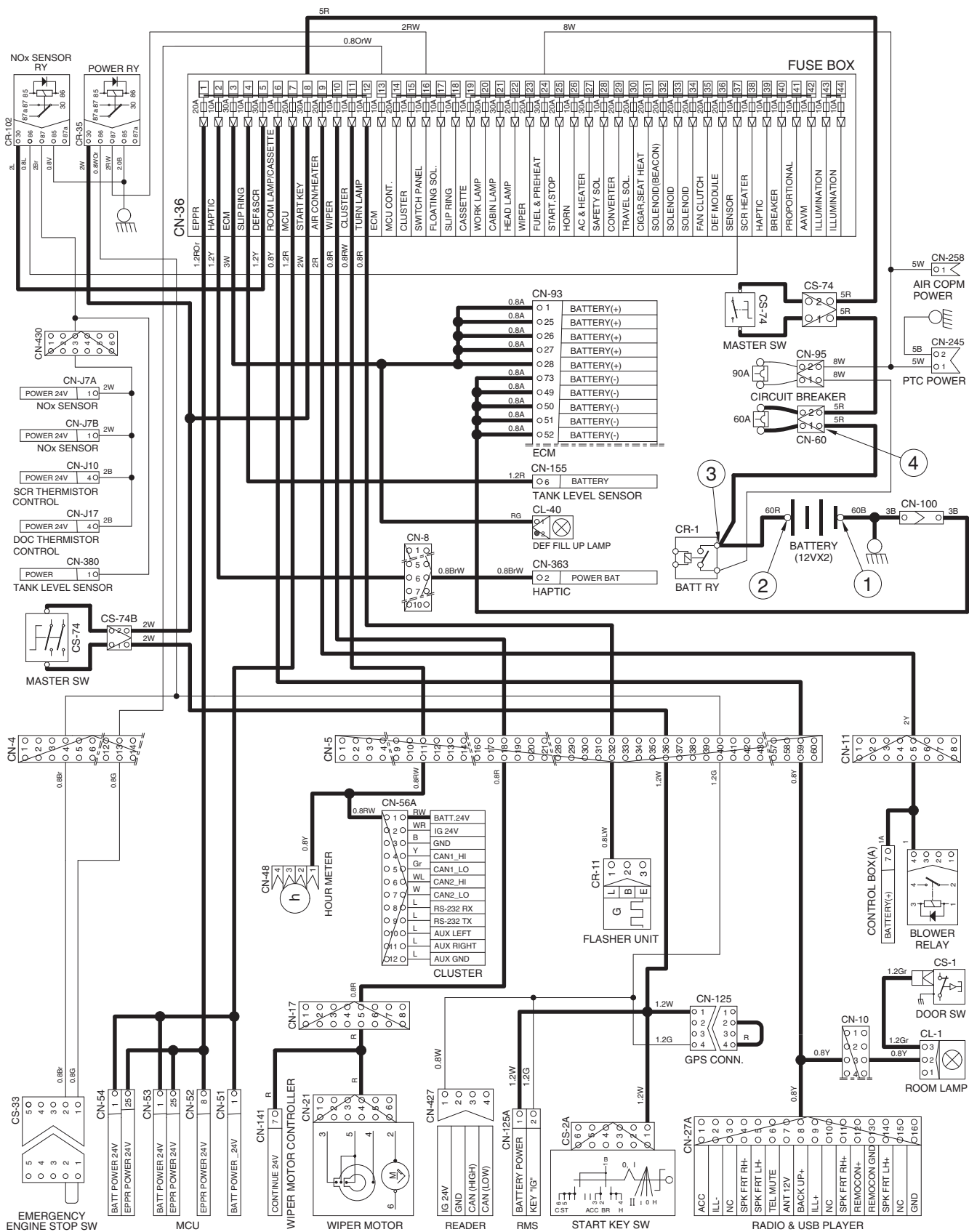
I/conn : Intermediate connector

2) CHECK POINT

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

※ GND : Ground

POWER CIRCUIT



140WF4EL03

1) OPERATING FLOW

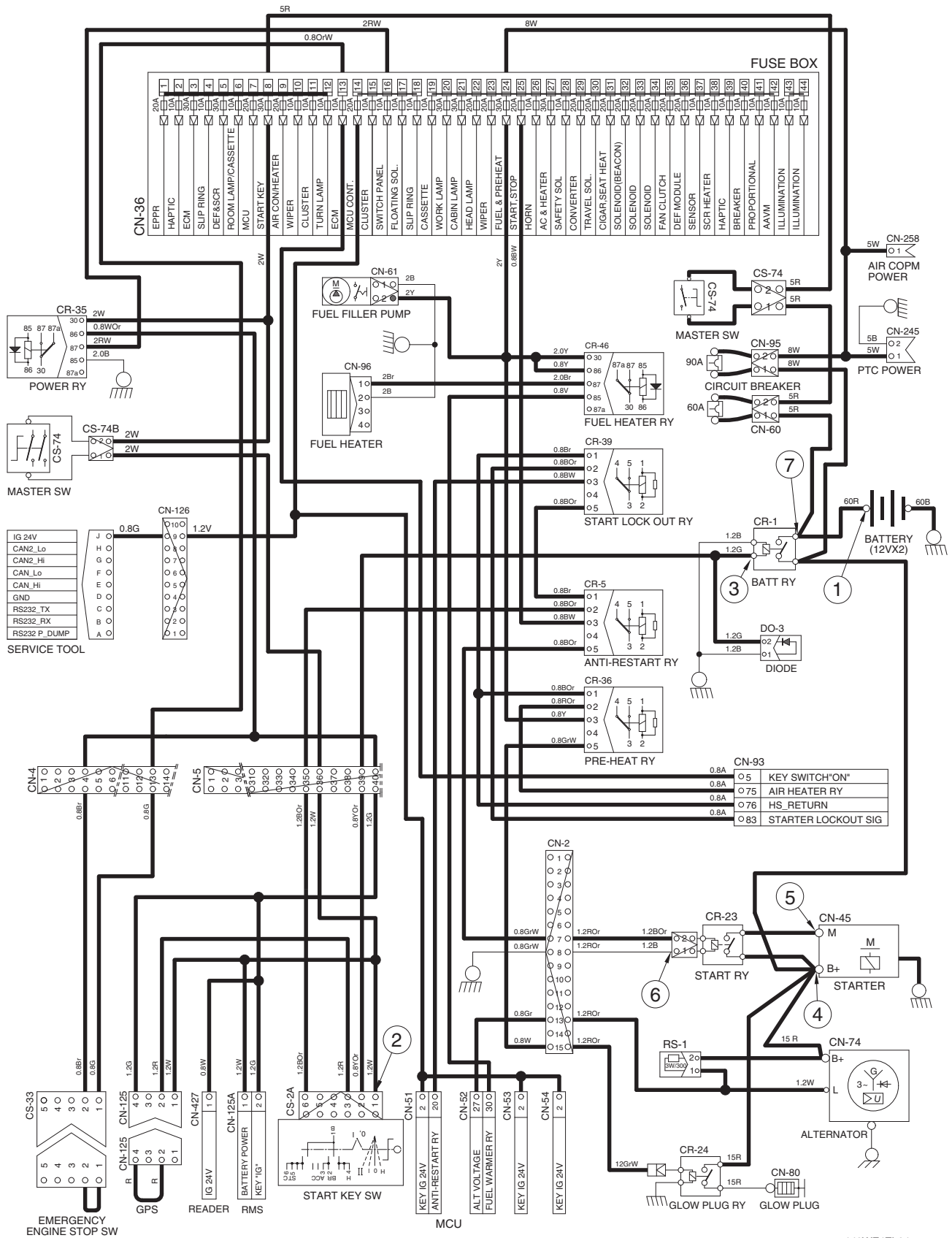
Battery(+) terminal → Battery relay [CR-1] → Circuit breaker [CN-60] → Master switch [CS-74]
 → Fuse box [No.8] → Master switch [CS-74B] → I/conn [CN-5 (36)] → Start switch [CS-2 (1)]
 → Power relay [CR-35 (30)]

- Start switch ON [CS-2 (2)] → I/conn [CN-5 (39)] → Battery relay [CR-1]
 - Battery relay operating (all power is supplied with the electric component)
- Start switch ON [CS-2 (3)] → GPS conn [CN-125 (2)→(4)]
 - RMS [CN-125A (2)]
 - Reader [CN-427 (1)]
 - I/conn [CN-5 (40)]
- Power relay [CR-35 (86) → (87)] → Fuse box [No.14]
 - MCU [CN-51 (2), CN-53 (2), CN-54 (2)]
- I/conn [CN-4 (4)] → Emergency engine stop sw [CS-33 (2) → (1)]
 - I/conn [CN-4 (13)] → Fuse box [No. 13] → ECM [CN-93 (5)]

Start switch START [CS-2 (6)] → I/conn [CN-5 (35)] → Anti-restart relay [CR-5 (2) → (5)]
→ I/conn [CN-2 (7)] → Start relay [CR-23 (2)] → Starter motor operating

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



140WF4EL04

3. CHARGING CIRCUIT

When the starter is activated and the engine is started, the operator releases the key 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 (L)] → I/conn [CN-2 (13)] → MCU alternator level [CN-52 (27)] →
Cluster charging warning lamp (via CAN interface)

(2) Charging flow

Alternator [CN-74 (B⁺)] → Starter [CN-45 (B⁺)] → Battery relay (M8)

- Battery (+) terminal
- Circuit breaker [CN-60] → Master switch [CS-74] → Fuse box [No. 1~12]
- Circuit breaker [CN-95] → Fuse box [No. 19~44]

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 L terminal) ⑤ - GND (MCU)	20~30 V

※ GND : Ground

FUSE BOX

Fuse	Rating	Component
1	20A	EPPR
2	10A	HAPTIC
3	10A	ECM
4	10A	SLIP RING
5	10A	DEF&SCR
6	10A	ROOM LAMP/CASSETTE
7	10A	MCU
8	10A	START KEY
9	10A	AIR CON/HEATER
10	10A	WIPER
11	10A	CLUSTER
12	10A	TURN LAMP
13	10A	ECM
14	10A	MCU CONT.
15	10A	CLUSTER
16	10A	SWITCH PANEL
17	10A	FLOATING SOL.
18	10A	SLIP RING
19	10A	CASSETTE
20	10A	WORK LAMP
21	10A	CABIN LAMP
22	10A	HEAD LAMP
23	10A	WIPER
24	10A	FUEL & PREHEAT
25	10A	START STOP
26	10A	HORN
27	10A	AC & HEATER
28	10A	SAFETY SOL
29	10A	CONVERTER
30	10A	TRAVEL SOL.
31	10A	CIGAR SEAT HEAT
32	10A	SOLENOID/BEACON
33	10A	SOLENOID
34	10A	SOLENOID
35	10A	FAN CLUTCH
36	10A	DEF MODULE
37	10A	SENSOR
38	10A	SCR HEATER
39	10A	HAPTIC
40	10A	BREAKER
41	10A	PROPORTIONAL
42	10A	AAMM
43	10A	ILLUMINATION
44	10A	ILLUMINATION

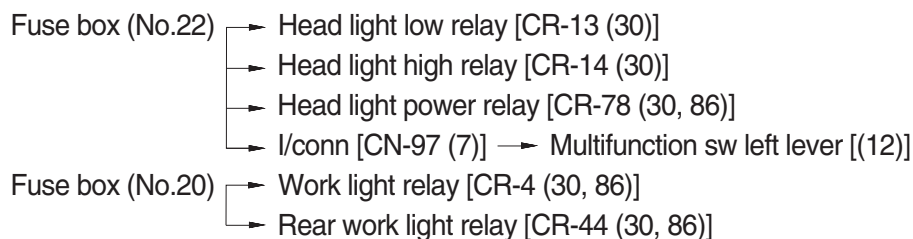
Wiring Details:

- Battery (12VX2):** Connected to BATT RY (1.2B, 1.2G) and BATT RY (1.2B, 1.2G).
- Master Switch (MASTER SW):** Connected to CS-74 (5R) and CS-74 (5R).
- Circuit Breaker (CN-95):** Connected to 90A (8W) and 60A (5R).
- Cluster (CN-56A):** Connected to BATT 24V (0.8RW), IG 24V (0.8VOr), GND (0.8B), CAN1_HI (0.8Gr), CAN1_LO (0.8WL), CAN2_HI (0.8W), CAN2_LO (0.8L), RS-232_RX (0.8L), RS-232_TX (0.8L), AUX LEFT (0.8L), AUX RIGHT (0.8L), and AUX GND (0.8L).
- Cluster Relay (CLUSTER RY):** Connected to 1.2B, 1.2G, and 1.2B.
- Start Relay (START RY):** Connected to 1.2B, 1.2G, and 1.2B.
- Starter (STARTER):** Connected to 1.2B, 1.2G, and 1.2B.
- Alternator (ALTERNATOR):** Connected to 1.2B, 1.2G, and 1.2B.
- Diode (DO-3):** Connected to 1.2B, 1.2G, and 1.2B.
- Relays (CR-1, CR-23):** Connected to 1.2B, 1.2G, and 1.2B.
- Resistors (RS-1, RS-2):** Connected to 1.2B, 1.2G, and 1.2B.
- Wiring Harness (CN-5, CN-2, CN-52, CN-74):** Connected to various components and ground.

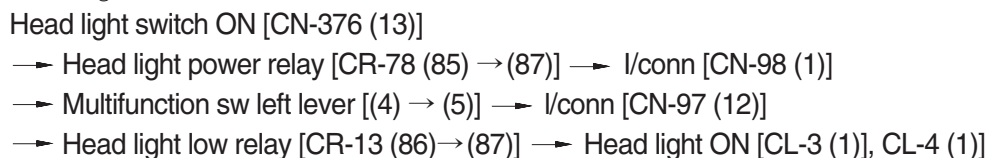
4-12

4. HEAD AND WORK LIGHT CIRCUIT

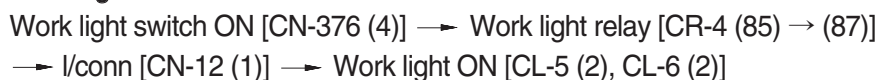
1) OPERATING FLOW



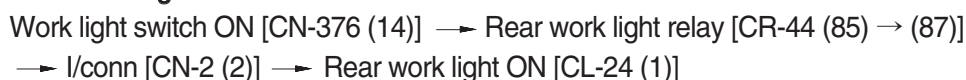
(1) Head light switch ON



(2) Work light switch ON



(3) Rear work light switch ON

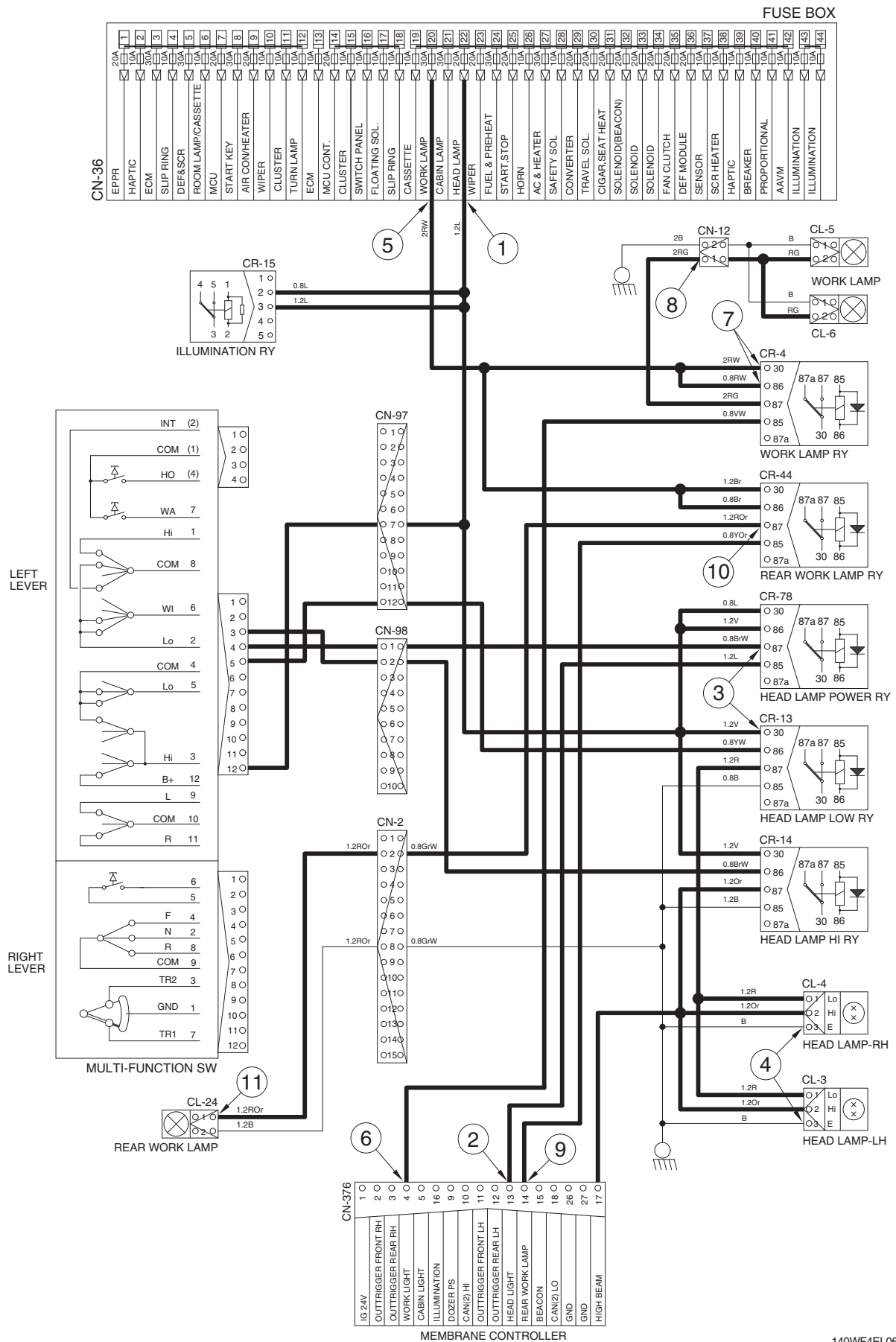


2) CHECK POINT

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 output) ⑦ - GND (work light relay) ⑧ - GND (work light) ⑨ - GND (switch power output) ⑩ - GND (rear work light relay) ⑪ - GND (rear work light)	20~30 V

※ GND : Ground

HEAD AND WORK LIGHT CIRCUIT



140WF4EL06

5. BEACON LAMP AND CAB LIGHT CIRCUIT

1) OPERATING FLOW

Fuse box (No.32) → Beacon lamp relay [CR-85 (2, 3)]

Fuse box (No.21) → Cab light relay [CR-9 (30, 86)]

(1) Beacon lamp switch ON

Beacon lamp switch ON [CN-376 (15)] → Beacon light 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)]

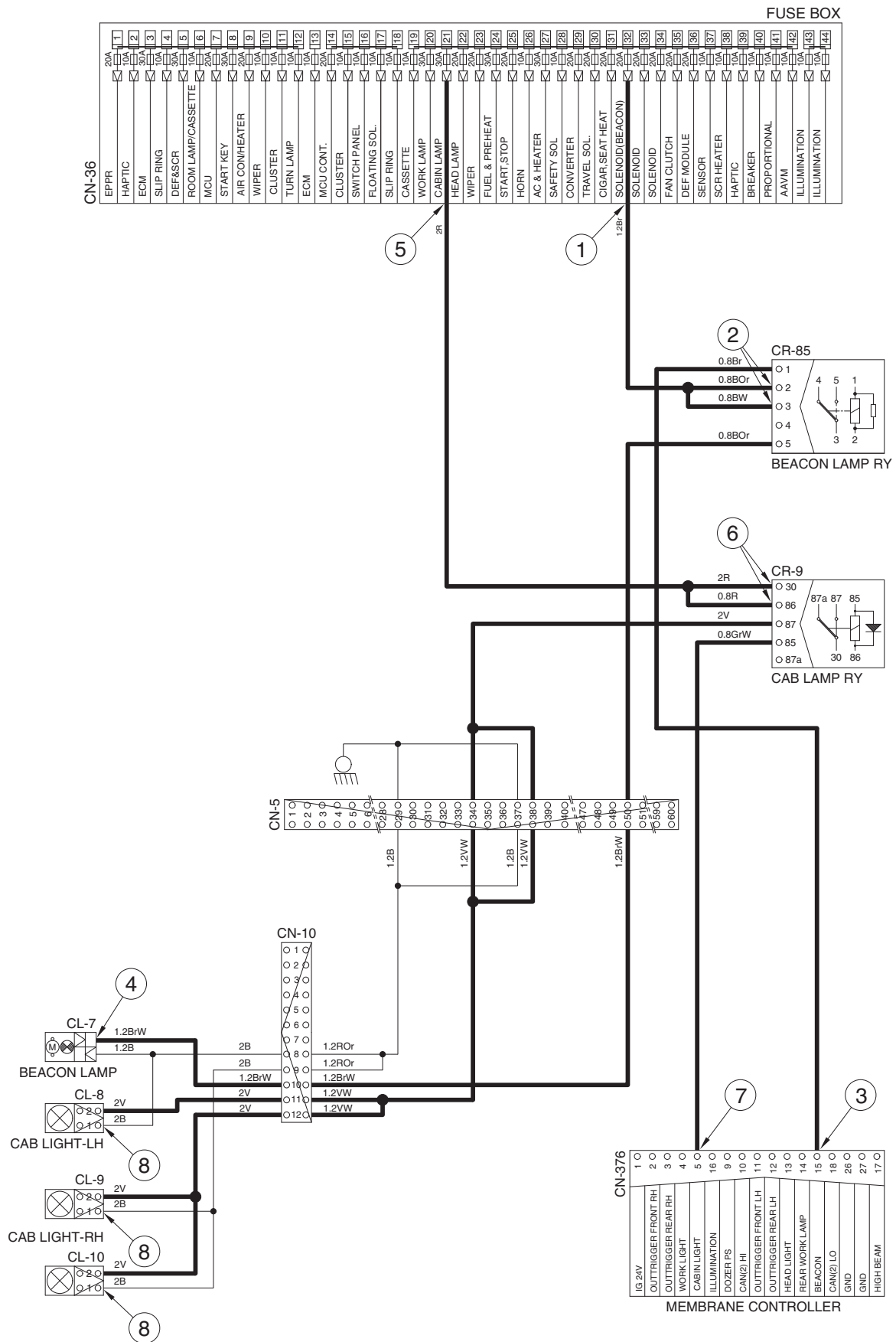
→ I/conn [CN-10 (12)] → Cab light ON [CL-9 (2), CL-10 (2)]

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

※ GND : Ground

BEACON LAMP AND CAB LIGHT CIRCUIT



6. WIPER AND WASHER CIRCUIT

1) OPERATING FLOW

(1) Key switch ON

Fuse box (No.22) → I/conn [CN-97 (7)] → Multifunction sw left lever [12]

Fuse box (No.10) → I/conn [CN-5 (18)] → I/conn [CN-17 (5)] → Wiper motor controller [CN-141 (7)]
→ Wiper motor [CN-21 (4)]

Fuse box (No.23) → I/conn [CN-5 (16)] → I/conn [CN-17 (4)] → Wiper motor controller [CN-141 (6)]
→ Washer pump [CN-22 (2)]

(2) Wiper switch ON : 1st step (intermittent)

Wiper switch ON [Multifunction sw left lever (2)] → I/conn [CN-98 (5)] → I/conn [CN-5 (20)]

→ I/conn [CN-17 (8)] → Wiper motor controller [CN-141 (10)→(3)]

→ Wiper motor intermittently operating [CN-21 (6)]

(3) Wiper switch ON : 2nd step (continual)

Wiper switch ON [Multifunction sw left lever (1, 2)] → I/conn [CN-98 (3, 4)] → I/conn [CN-5 (15)]

→ I/conn [CN-17 (2)] → Wiper motor controller [CN-141 (2)→(4)] → Wiper motor operating [CN-21 (2)]

(4) Washer switch ON

Washer switch ON [Multifunction sw left lever (7)] → I/conn [CN-97 (10)] → I/conn [CN-5 (17)]

→ I/conn [CN-17 (7)] → Wiper motor controller [CN-141 (9)→(8)]

→ I/conn [CN-17 (6)] → I/conn [CN-5 (19)] → Washer pump [CN-22 (1)] → Washer operating

Wiper switch ON [Multifunction sw left lever (1, 2)] → I/conn [CN-98 (3, 4)]

→ I/conn [CN-5 (15)] → I/conn [CN-17 (2)] → Wiper motor controller [CN-141 (2) → (4)]

→ Wiper motor operating [CN-21 (2)]

(5) Auto parking (when switch OFF)

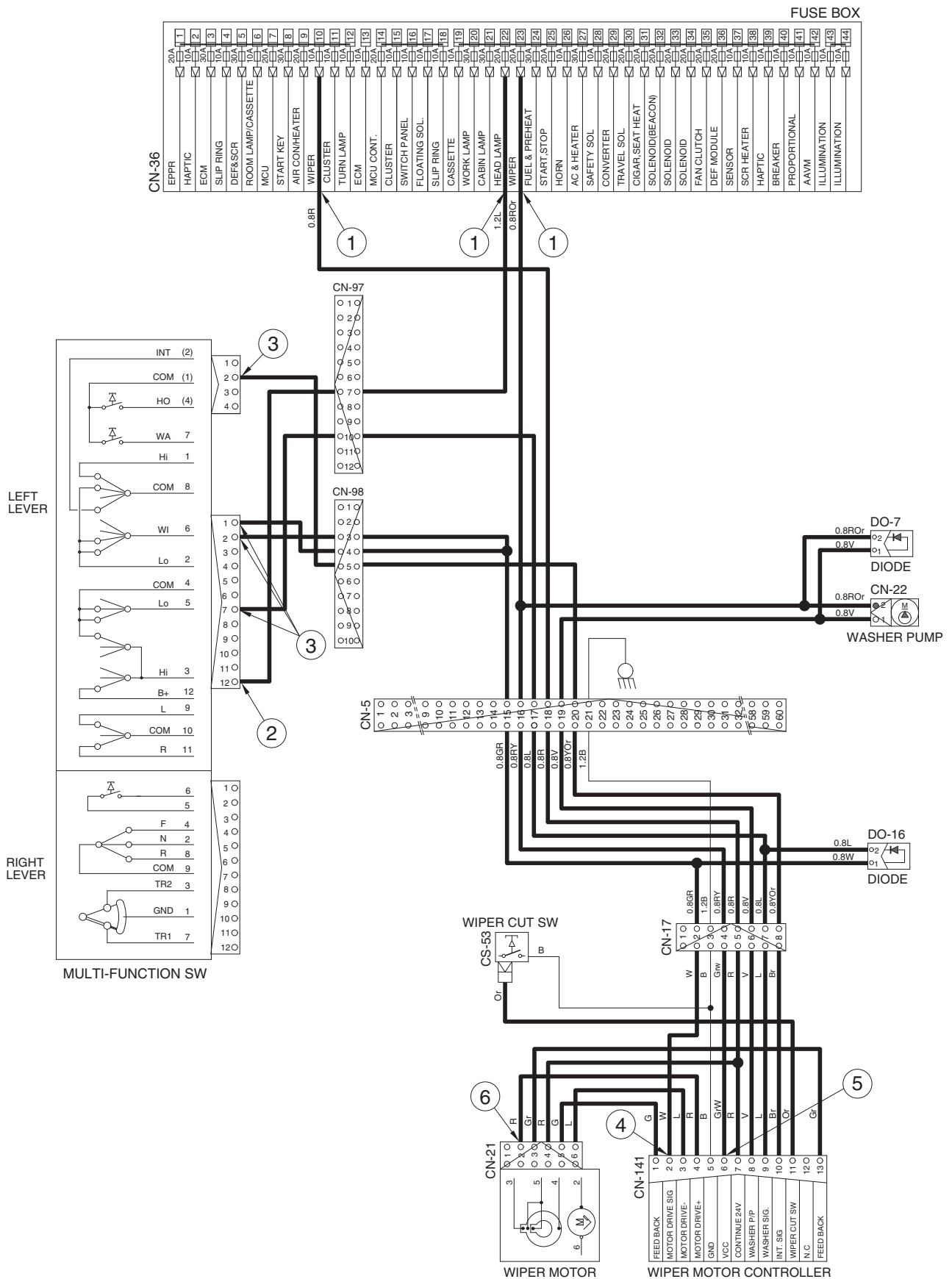
Switch OFF [Multifunction sw left lever OFF position] → Wiper motor parking position by wiper motor controller

2) CHECK POINT

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

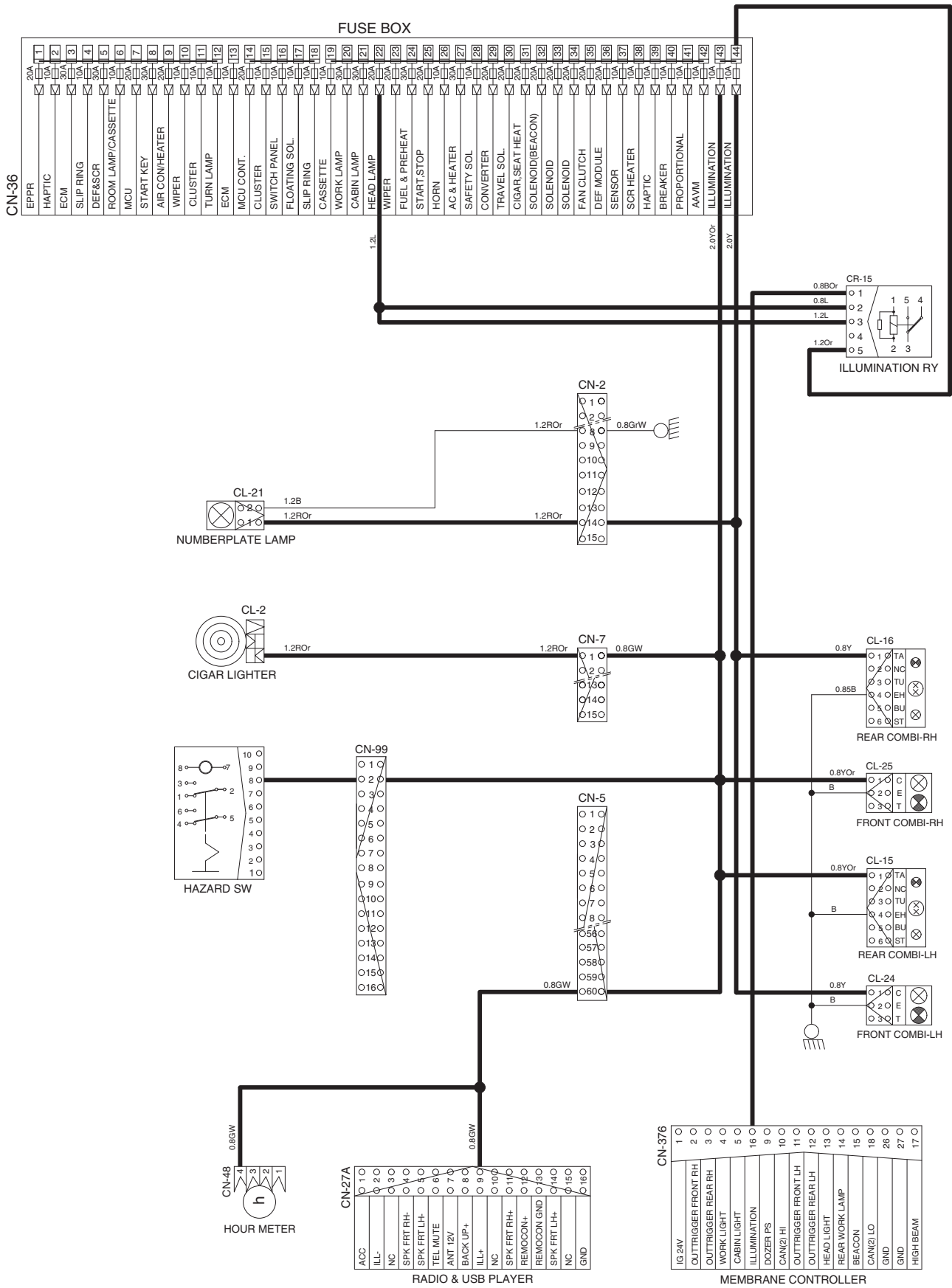
※ GND : Ground

WIPER AND WASHER CIRCUIT



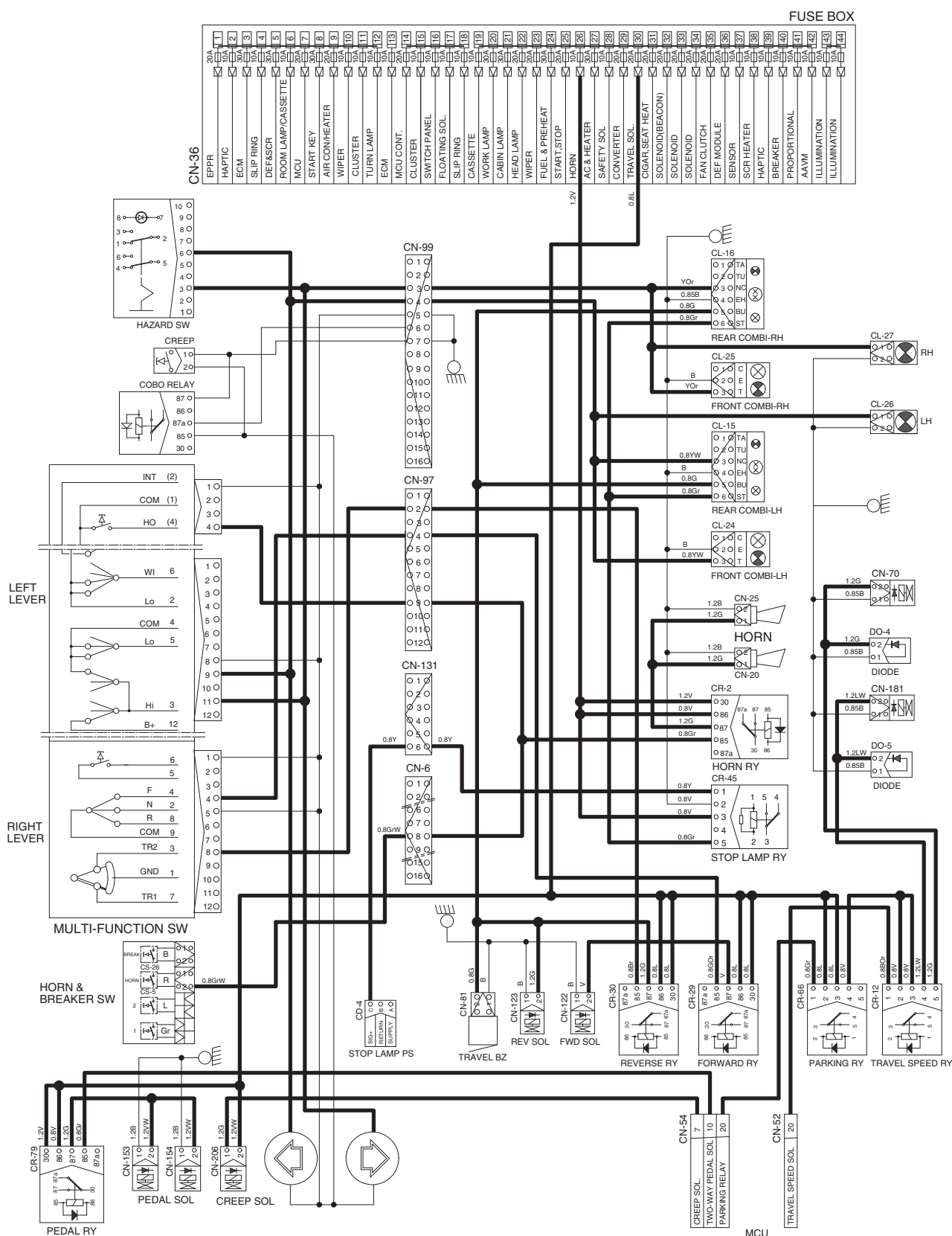
140WF4EL08

ILLUMINATION CIRCUIT



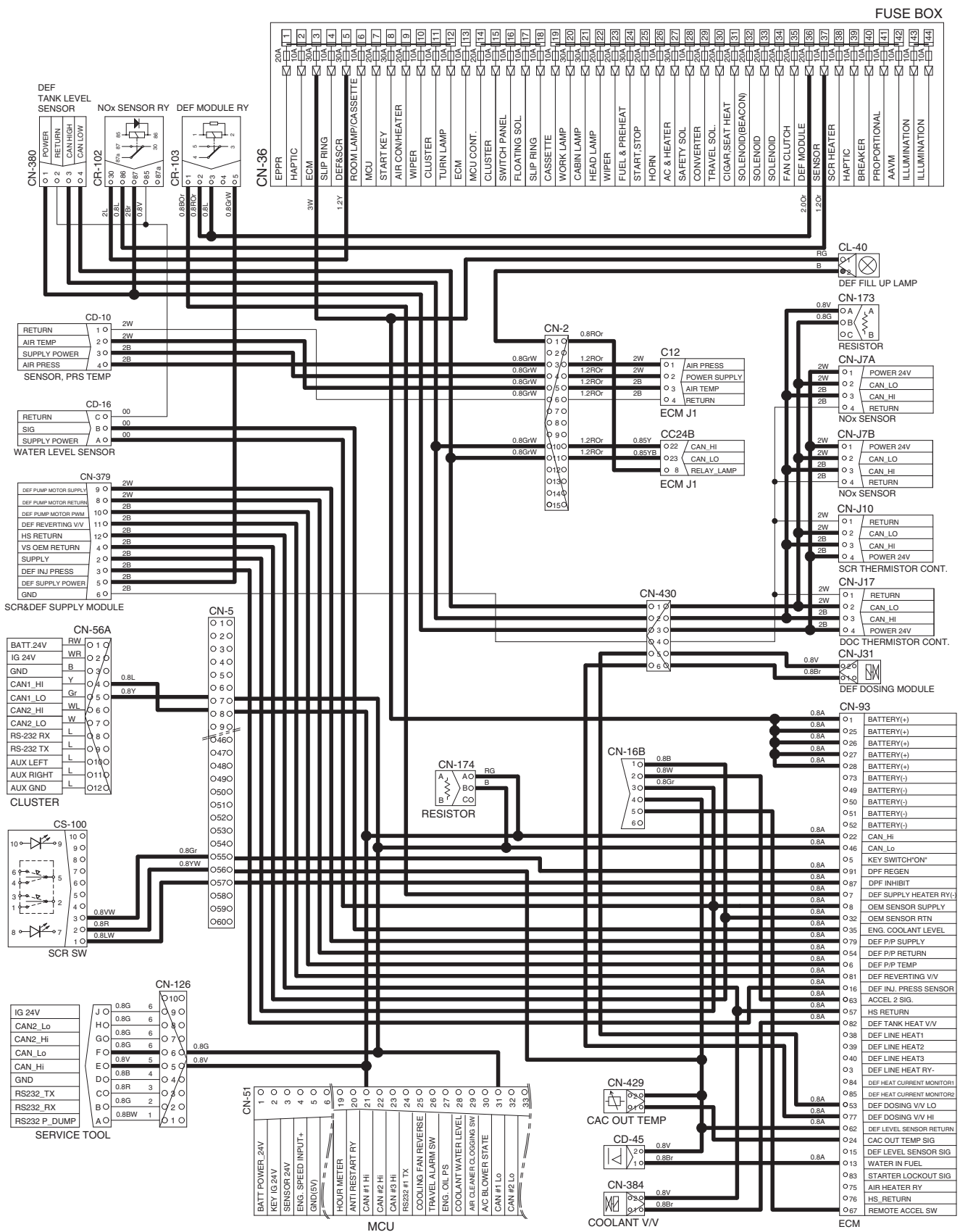
140WF4EL09

COMBINATION LAMP CIRCUIT

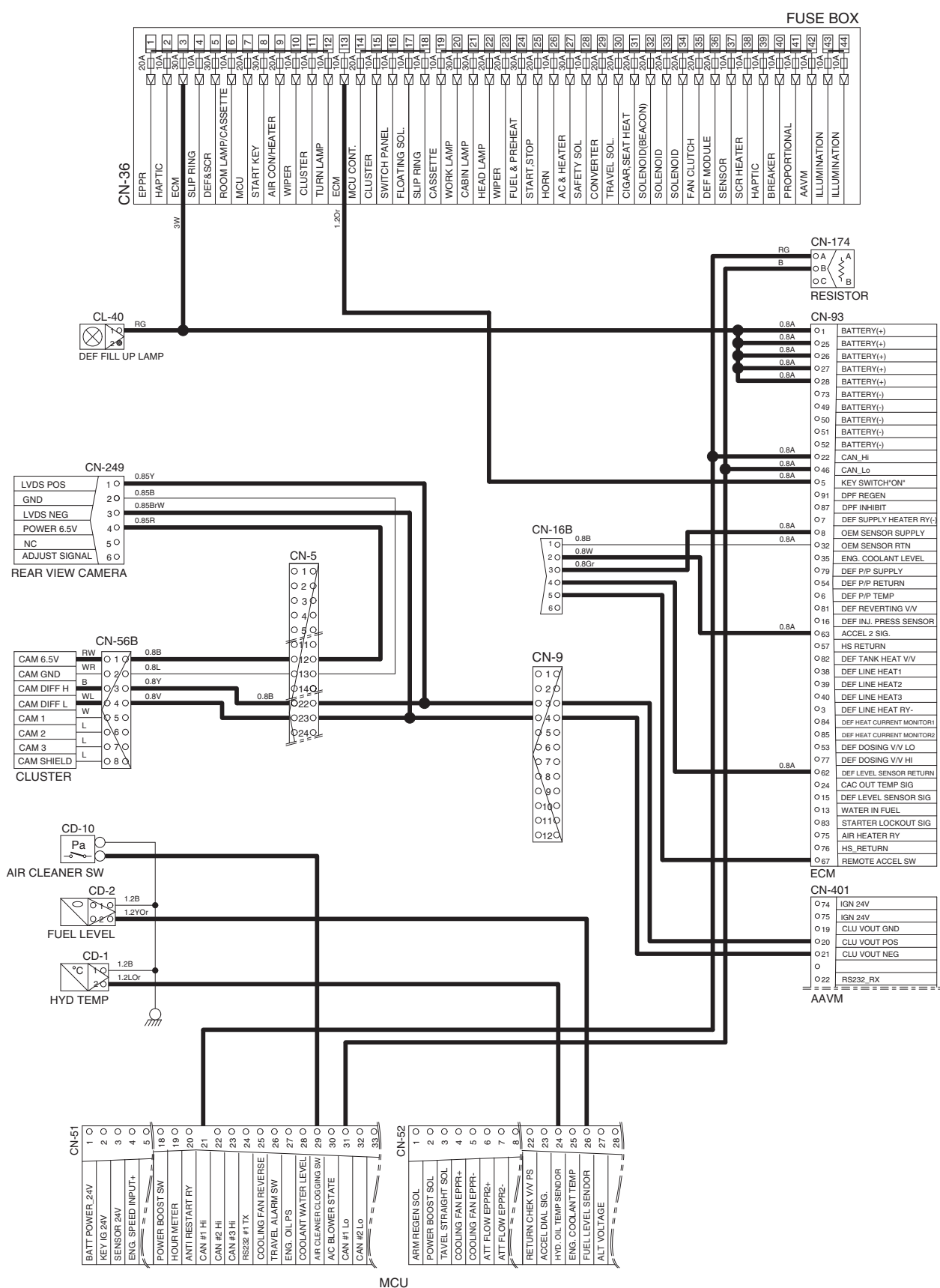


140WF4EL10

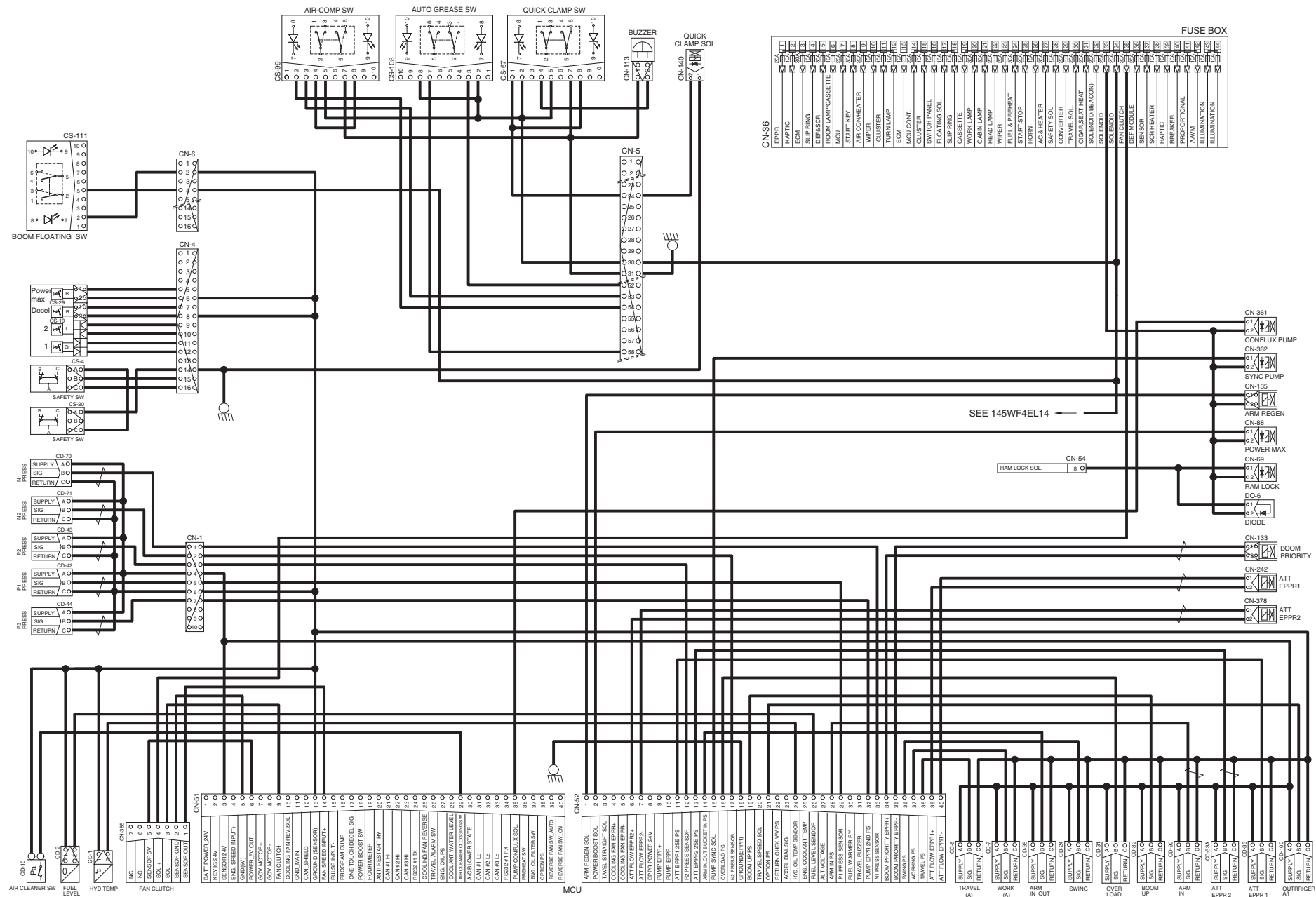
CONTROLLER CIRCUIT



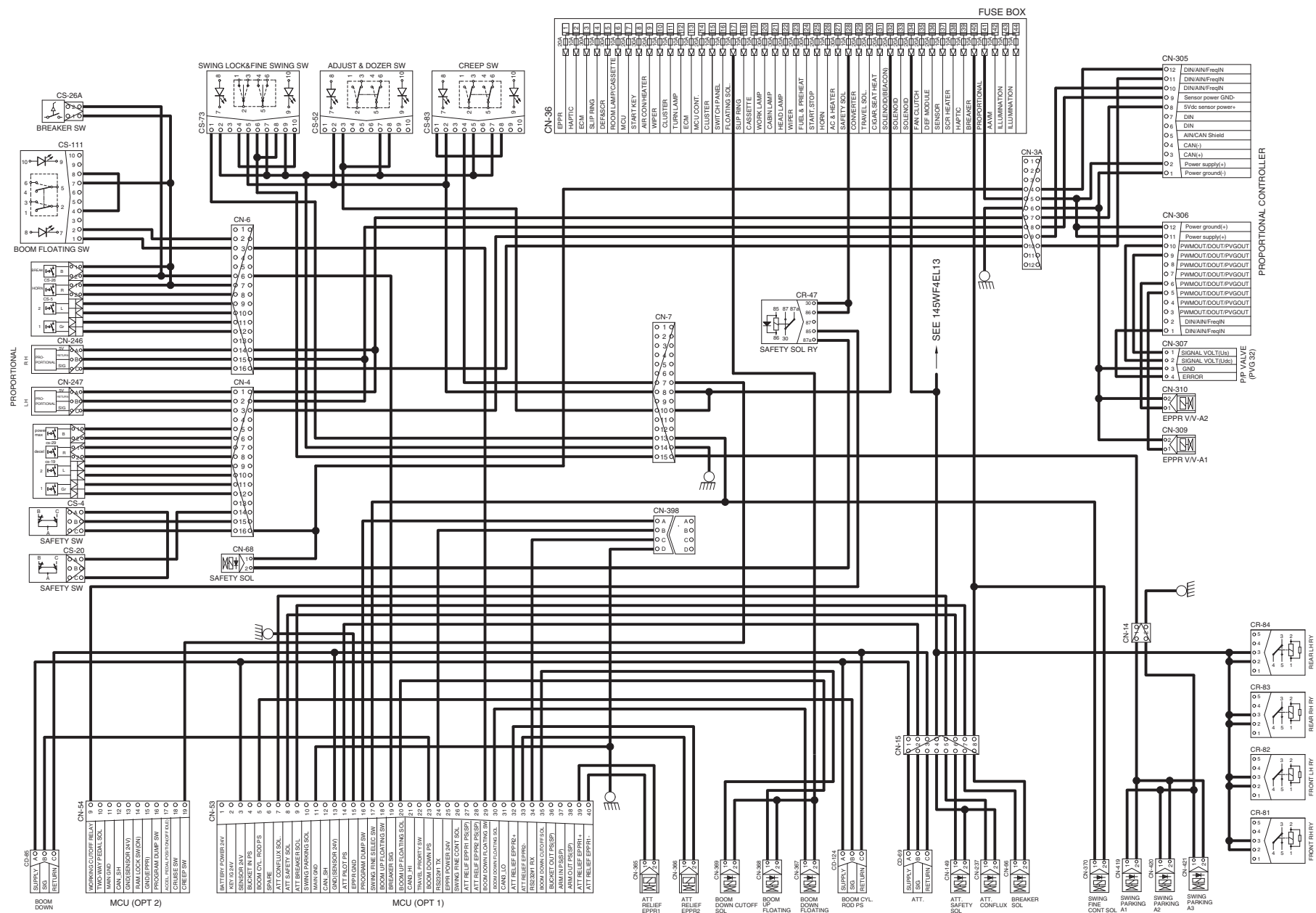
MONITORING CIRCUIT



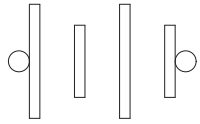
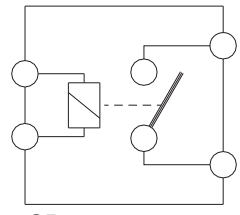
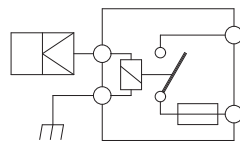
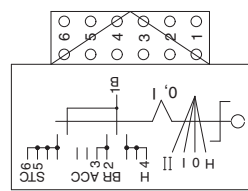
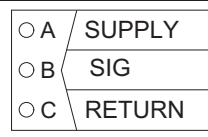
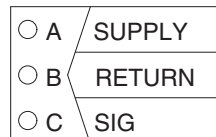
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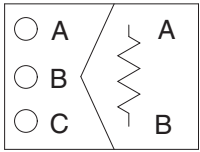
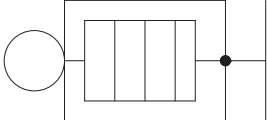
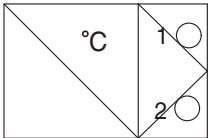
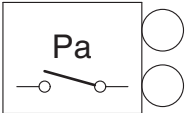
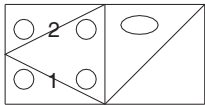
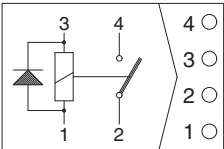


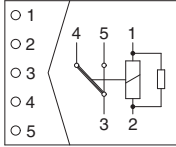
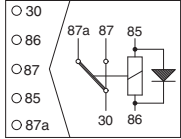
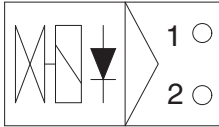
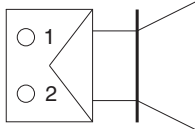
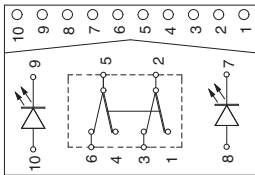
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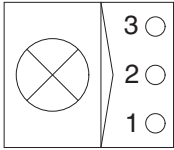
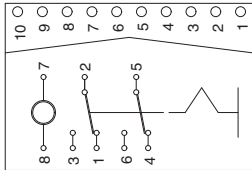
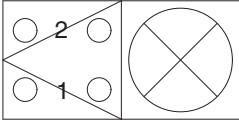
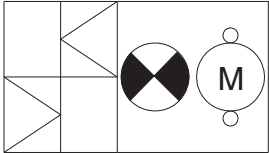
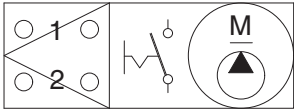
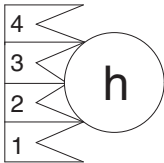


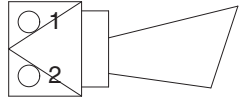
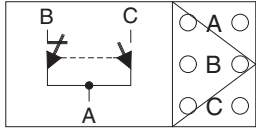
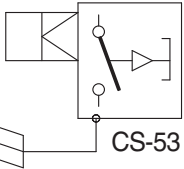
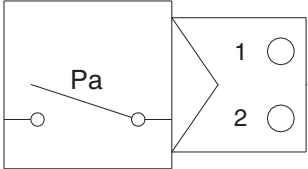
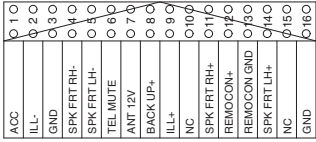
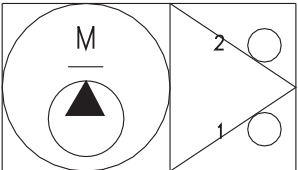
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

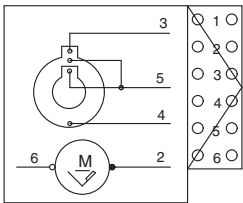
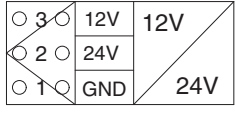
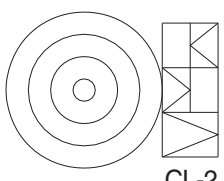
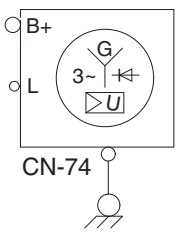
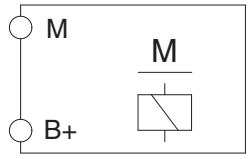
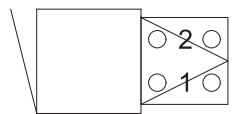
Part name	Symbol	Specifications	Check
Battery		12V × 100Ah (2EA)	※ Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 CR-1	Rated load : 24V 100A (continuity) 1000A (30 seconds)	※ Check coil resistance(M4 to M4) Normal : About 50 Ω ※ Check contact Normal : ∞ Ω
Glow plug relay	 CR-24	24V 200A	※ Check contact Normal : 0.942 Ω (For terminal 1-GND)
Start key	 CS-2A	B-BR : 24V 1A B-ACC : 24V 10A B-ST : 24V 40A	※ Check contact OFF : ∞ Ω (for each terminal) ON : 0 Ω (for terminal 1-3 and 1-2) START : 0 Ω (for terminal 1-6)
Pressure sensor	 CD-3 CD-5 CD-6 CD-7 CD-16 CD-24 CD-31 CD-32 CD-35 CD-38 CD-42 CD-43 CD-44 CD-69 CD-70 CD-71 CD-73 CD-74 CD-85 CD-90 CD-93 CD-100 CD-124	8~30V	※ Check contact Normal : 0.1 Ω
Stop lamp pressure sensor	 CD-4	8~30V	※ Check contact Normal : 0.1 Ω

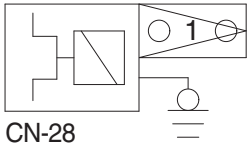
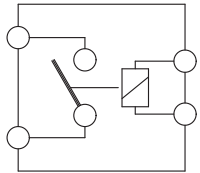
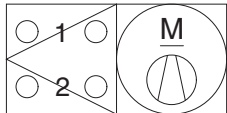
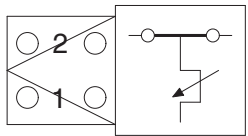
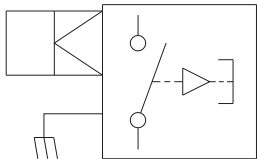
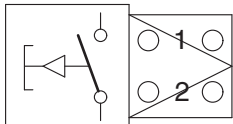
Part name	Symbol	Specifications	Check
Resistor	 CN-173 CN-174	3W	※ Check resistance A-B : 120 Ω
Glow plug	 CN-80	24V 200A	※ Check resistance 0.25~0.12 Ω
Temperature sensor (hydraulic)	 CD-1	-	※ Check resistance 50°C : 804 Ω 80°C : 310 Ω 100°C : 180 Ω
Air cleaner pressure switch	 CD-10	N.O TYPE	※ Check contact High level : ∞ Ω Low level : 0 Ω
Fuel level sender	 CD-2	-	※ Check resistance Full : 50 Ω 6/12 : 350 Ω 11/12 : 100 Ω 5/12 : 400 Ω 10/12 : 150 Ω 4/12 : 450 Ω 9/12 : 200 Ω 3/12 : 500 Ω 8/12 : 250 Ω 2/12 : 550 Ω 7/12 : 300 Ω 1/12 : 600 Ω Empty warning : 700 Ω
Relay (air con blower)	 1 2 3 4	24V 16A	※ Check resistance Normal : About 200 Ω (for terminal 1-3) 0 Ω (for terminal 2-4)

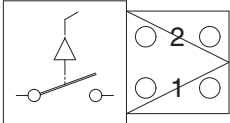
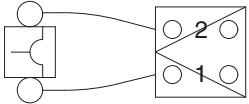
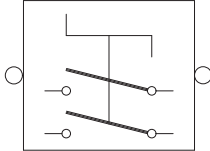
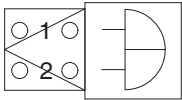
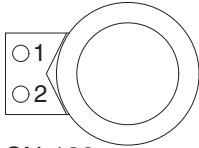
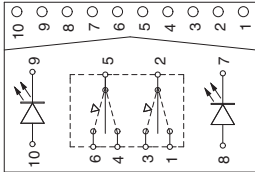
Part name	Symbol	Specifications	Check
Relay	 CR-5 CR-12 CR-15 CR-36 CR-39 CR-45 CR-66 CR-81 CR-82 CR-83 CR-84 CR-85 CR-93 CR-103	24V 16A	※ Check resistance Normal : About 160 Ω (for terminal 1-2) 0 Ω (for terminal 3-4) ∞ Ω (for terminal 3-5)
Relay	 CR-2 CR-4 CR-7 CR-9 CR-13 CR-14 CR-29 CR-30 CR-35 CR-44 CR-46 CR-47 CR-78 CR-79 CR-102 CR-104	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	 CN-66 CN-68 CN-69 CN-70 CN-88 CN-122 CN-123 CN-135 CN-140 CN-149 CN-153 CN-154 CN-181 CN-206 CN-214 CN-216 CN-218 CN-220 CN-237 CN-264 CN-361 CN-362 CN-367 CN-368 CN-369 CN-370 CN-419 CN-420 CN-421	24V 1A	※ Check resistance Normal : 15~25 Ω (for terminal 1-2)
EPPR valve	 CN-75 CN-133 CN-242 CN-246 CN-309 CN-310 CN-365 CN-366 CN-378	700mA	※ Check resistance Normal : 15~25 Ω (for terminal 1-2)
Speaker	 CN-23(LH) CN-23(RH)	20W	※ Check resistance Normal : A few Ω
Switch (locking type)	 CS-52 CS-67 CS-83 CS-99 CS-108 CS-111	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)

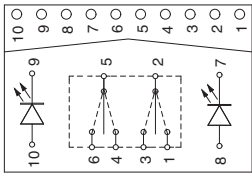
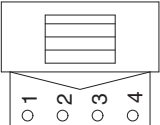
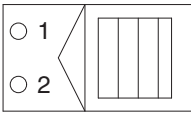
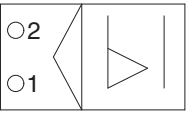
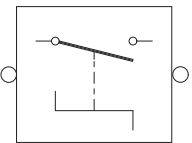
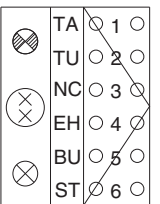
Part name	Symbol	Specifications	Check
Room lamp	 CL-1	24V 10W	※ Check disconnection Normal : 1.0 Ω ON : 0 Ω (For terminal 1-2) ∞ Ω (For terminal 1-3) OFF : ∞ Ω (For terminal 1-2) 0 Ω (For terminal 1-3)
Hazard switch		24V 1.5A	※ Check contact Normal ON : 0 Ω (For terminal 2-3, 5-6) ∞ Ω (For terminal 2-10, 5-4) OFF : ∞ Ω (For terminal 2-3, 5-6) 0 Ω (For terminal 2-10, 5-4)
Work lamp, Cab lamp, Number plate lamp	 CL-5 CL-6 CL-8 CL-9 CL-10 CL-21 CL-24	24V 65W (H3 Type)	※ Check disconnection Normal : 1.2 Ω
Beacon lamp	 CL-7	21V 70W (H1 Type)	※ Check disconnection Normal : A few Ω
Fuel filler pump	 CN-61	24V 10A 35 l /min	※ Check resistance Normal : 1.0 Ω
Hour meter	 CN-48	16~32V	※ Check operation Supply power(24V) to terminal No.2 and connect terminal No.1 and ground

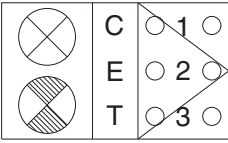
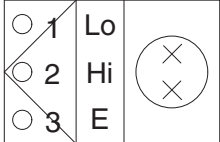
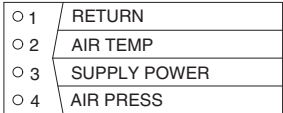
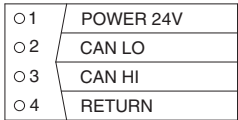
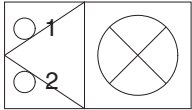
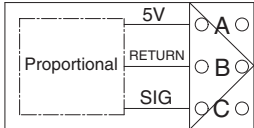
Part name	Symbol	Specifications	Check
Horn	 CN-20 CN-25	DC22~28V 2A	※ Check operation Supply power (24V) to each terminal and connect ground.
Safety switch	 CS-4 CS-20	24V 15A (N.C TYPE)	※ Check contact Normal : 1.0 Ω ON : 0 Ω (for terminal A-B) ∞ Ω (for terminal A-C) OFF : ∞ Ω (for terminal A-B) 0 Ω (for terminal A-C)
Wiper cut switch	 CS-53	24V (N.O TYPE)	※ Check contact Normal : 0 Ω (one pin to ground)
Receiver dryer	 CN-29	24V 2.5A	※ Check contact Normal : ∞ Ω
Radio & USB player	 CN-27A	24V 2A	※ Check voltage 20~25V (for terminal 1-3, 3-8)
Washer pump	 CN-22	24V 3.8A	※ Check contact Normal : 10.7 Ω (for terminal 1-2)

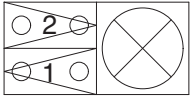
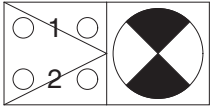
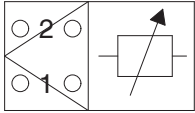
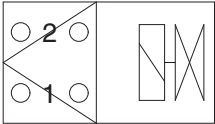
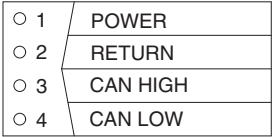
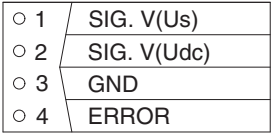
Part name	Symbol	Specifications	Check
Wiper motor	 CN-21	24V 2A	※ Check disconnection Normal : 7 Ω (for terminal 2-6)
DC/DC converter	 CN-138	12V 3A	※ Check voltage 24V (for terminal 1-2) 12V (for terminal 1-3)
Cigar lighter	 CL-2	24V 5A 1.4W	※ Check coil resistance Normal : About 1M Ω ※ Check contact Normal : ∞ Ω Operating time : 5~15sec
Alternator	 CN-74	Denso 24V 95A	※ Check contact Normal : 0 Ω (for terminal B ⁺ -L) Normal : 24~27.5V
Starter	 CN-45	Nippon denso 24V 4.8kW	※ Check contact Normal : 0.1 Ω
Travel alarm	 CN-81	24V 0.5A	※ Check contact Normal : 5.2 Ω

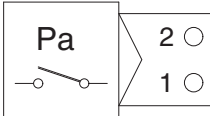
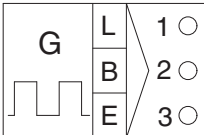
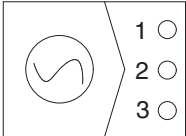
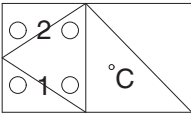
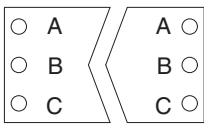
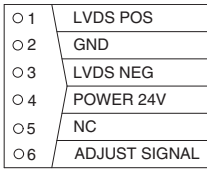
Part name	Symbol	Specifications	Check
Air conditioner compressor	 CN-28	24V 79W	※ Check contact Normal : 13.4 Ω
Start relay	 CR-23	24V 300A	※ Check contact Normal : 0.94 Ω (for terminal 1-2)
Blower motor		24V 9.5A	※ Check resistance Normal : 2.5 Ω (for terminal 1-2)
Duct sensor (switch)		1°C OFF 4°C ON	※ Check resistance Normal : 0 Ω (for terminal 1-2), the atmosphere temp : Over 4°C
Door switch	 CS-1	24V 2W	※ Check resistance Normal : About 5M Ω
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
Breaker selection switch	 CS-26A	-	-
Circuit breaker	 CN-60 CN-95	CN-60 : 60A CN-95 : 90A	※ Check disconnection Normal : 0 Ω (connect ring terminal and check resist between terminal 1 and 2)
Master switch	 CS-74B	6-36V	※ Check disconnection Normal : 0.1 Ω
Quick clamp buzzer	 CN-113	24V 200mA 107 ± 4dB	-
Socket	 CN-139	12V 10A	-
SCR switch	 CS-100	24V 8A	※ Check contact Normal OFF : ∞ Ω (for terminal 2-1, 2-3, 4-5, 5-6)

Part name	Symbol	Specifications	Check
Swing lock/fine switch	 CS-73	24V 8A	※ Check contact Normal OFF : $\infty \Omega$ (for terminal 2-1, 2-3, 4-5, 5-6)
Fuel heater	 CN-96	-	-
DEF/AdBlue® line heater	 CN-381 CN-382 CN-383	-	-
WIF sensor	 CD-45	-	※ Check disconnection Normal : 68.8~4.94 Ω
Master switch	 CS-74	6 - 36V	※ Check disconnection Normal : 0.1 Ω
Rear combination lamp-LH,RH	 CL-15 CL-16	24V 21W×2 LED	※ Check resistance Normal : 4.8 Ω (For terminal 1-4) Normal : 2.1 Ω (For terminal 2-4, 4-5, 4-6)

Part name	Symbol	Specifications	Check
Front combination lamp-LH, RH	 CL-24 CL-25	24V 21W 24V 10W	※ Check resistance Normal : 4.8 Ω (For terminal 1-2) Normal : 2.1 Ω (For terminal 2-3)
Head lamp -LH, RH	 CL-3 CL-4	24V 75/70W	※ Check resistance Normal : 1.0 Ω (For terminal 1-3, 2-3) Normal : 1.5 Ω (For terminal 1-2)
PRS temp sensor	 CD-10	5.0V 0.2A	※ Check contact Normal 0 Ω (for terminal 1-2, 47.5 Ω) ∞ Ω (for terminal 3-1, 1k Ω) ∞ Ω (for terminal 4-1, 1k Ω)
Sensor (NOx, SCR, DOC)	 CN-J7A CN-J7B CN-J10 CN-J17	-	-
DEF/AdBlue® fill up warning lamp (LED)	 CL-40	-	-
Proportional valve sensor	 CN-246 CN-247	-	-

Part name	Symbol	Specifications	Check
DEF/AdBlue® full lamp	 CL-41	-	-
Side marker lamp - LH, RH	 CL-26 CL-27	-	-
Air conditioner temperature sensor (incar, ambient)		-	-
EPPR valve	 CN-384 CN-J31	24V 700mA	※ Check resistance Normal : 15~25 Ω (For terminal 1-2)
DEF/AdBlue® tank level sensor	 CN-380	-	-
Proportional valve sensor	 CN-307	-	-

Part name	Symbol	Specifications	Check
Dozer act pressure switch	 CD-50	N.O type	※ Check resistance Normal : ∞ Ω (open)
Flasher unit	 CR-11	24V 85~190 C/M 50dB	-
Speed sensor	 CD-46	-	-
CAC out temperature sensor	 CN-429	-	-
Smart button	 CS-2B	-	-
Camera	 CN-249 CN-402 CN-403 CN-404 CN-405	-	-

GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION

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	DELPHI	15	I/conn (Frame harness-Engine harness)	13964577	-
CN-3	TYCO	12	I/conn (Frame harness-AAVM harness)	174661-2	368537-1
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	DRB12-60PAE-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)	2-85262-1	936301-1
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)	DT06-12S	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-11	-	3	Flasher unit	S810-003702	-
CN-12	DEUTSCH	2	I/conn (Frame harness-Boom wire harness)	DT06-2S-EP06	DT04-2P-E004
CN-14	DEUTSCH	2	I/conn (Frame harness-2 way harness)	DT06-2S-EP06	DT04-2P-EP06
CN-15	AMP	8	I/conn (Frame harness-Two way harness)	S816-008002	174984-2
CN-16	AMP	6	Emergency engine start & speed control	S816-006002	-
CN-16A, B	AMP	6	Emergency engine start & speed control	-	S816-106002
CN-17	AMP	8	I/conn (Side harness RH-Wiper motor harness)	S816-008002	S816-108202
CN-20	MOLEX	2	Horn	36825-0211	-
CN-21	AMP	6	Wiper motor	S810-006202	-
CN-22	KET	2	Washer pump	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	USB player	-	174984-2
CN-28	KUM	1	Aircon compressor	NMWP01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-36	TYCO	-	Fuse box (micro relay)	-	3-1393292-8
CN-45	RING-TERM	-	Starter motor B ⁺	S820-308000	-
CN-48	KET	1	Service meter	2-520193-2	-
CN-51	DEUTSCH	40	MCU	DRC26-40SA	-
CN-52	DEUTSCH	40	MCU	DRC26-40SC	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-53	DEUTSCH	40	MCU	DRC26-40SA	-
CN-54	DEUTSCH	40	MCU	DRC26-40SA	-
CN-56A	AMP	8	Cluster	-	174663-2
CN-56B	AMP	12	Cluster	-	174984-2
CN-60	AMP	2	Circuit breaker	-	S813-130202
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S-EP06	-
CN-66	DEUTSCH	2	Breaker solenoid	DT06-2S-EP06	-
CN-68	DEUTSCH	2	Safety solenoid	DT06-2S-EP06	-
CN-69	DEUTSCH	2	Ram lock solenoid	DT06-2S-EP06	-
CN-70	DEUTSCH	2	Travel high solenoid	DT06-2S-EP06	-
CN-74	KET	1	Alternator "L" terminal	MG640-188-4	-
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	-
CN-88	DEUTSCH	2	Power max solenoid	DT06-2S-EP06	-
CN-93	DELPHI	-	To ECU	13964577	-
CN-95	AMP	2	Circuit breaker	-	S813-130202
CN-96	AMP	4	Fuel warmer	2-967325-3	-
CN-97	AMP	12	Multifunction switch	-	S816-112002
CN-98	-	10	Multifunction switch	-	S816-11002
CN-99	-	16	Multifunction switch	-	S816-116002
CN-100	KET	1	Battery earth	MG640994-5	-
CN-113	KET	2	Quick clamp buzzer	MG651205-5	-
CN-122	DEUTSCH	2	Forward solenoid	DT06-2S-EP06	-
CN-123	DEUTSCH	2	Reverse solenoid	DT06-2S-EP06	-
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	4	Service tool	2-1418390-1	S816-110002
CN-128	DEUTSCH	2	Rear outrigger solenoid - LH	DT06-2S-EP06	-
CN-131	-	6	I/conn (Frame harness-Stop lamp harness)	S816-006002	S816-106002
CN-133	DEUTSCH	2	Boom priority EPPR valve	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	DT04-3P-EP10
CN-147	AMP	4	Fuel heater	2-967325-3	-
CN-149	DEUTSCH	2	Attach safety solenoid	DT06-2S-EP06	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-153	DEUTSCH	2	Travel safety solenoid	DT06-2S-EP06	-
CN-154	DEUTSCH	2	Travel safety solenoid	DT06-2S-EP06	-
CN-155	DEUTSCH	8	Slipling (Frame harness-Lower harness)	DT06-8S-EP06	DT04-8P-E003
CN-156	DEUTSCH	60	TMCU	DRC26-40SA	-
CN-156	DEUTSCH	2	Air seat	-	DT04-2P
CN-157	AMP	1	Antena power	S822-014002	-
CN-173	DEUTSCH	3	Resistor	DT06-3S-EP06	DT04-3P-EP10
CN-174	DEUTSCH	3	Resistor	DT06-3S-EP06	-
CN-181	DEUTSCH	2	Travel low speed solenoid	DT06-2S-EP06	-
CN-206	DEUTSCH	2	Creep solenoid	DT06-2S-EP06	-
CN-214	DEUTSCH	2	Front outrigger solenoid - RH	DT06-2S-EP06	-
CN-216	DEUTSCH	2	Front outrigger solenoid - LH	DT06-2S-EP06	-
CN-220	DEUTSCH	2	Rear outrigger solenoid - RH	DT06-2S-EP06	-
CN-237	DEUTSCH	2	Attach confluc solenoid	DT06-2S-EP06	-
CN-242	DEUTSCH	2	Attachment EPPR 1 pressure sensor	DT06-2S-EP06	-
CN-245	-	2	PTC Power	S813-030201	-
CN-246	DEUTSCH	2	Cruise solenoid	DT06-2S-EP06	-
CN-249	DEUTSCH	6	Rear view camera	DT06-6S-EP06	DT04-6P
CN-258	KET	1	Air compressor	MG640944-5	-
CN-263	DEUTSCH	2	Air compressor	DT06-2S-EP06	-
CN-264	DEUTSCH	2	2 PCS solenoid	DT06-2S-EP06	DT04-2P-E005
CN-305	DEUTSCH	12	AAVM	DTM06-12SA	-
CN-306	DEUTSCH	12	AAVM	DTM06-12SB	-
CN-307	DEUTSCH	3	Service tool	DT06-3S-EP06	DT06-3P-E005
CN-308	-	4	PVG32	2-967059-1	-
CN-309	DEUTSCH	2	A1 EPPR valve	DT06-2S-EP06	-
CN-310	DEUTSCH	2	A2 EPPR valve	DT06-2S-EP06	-
CN-363	-	12	Haptic controller	174045-2	-
CN-365	DEUTSCH	2	Attachment relief EPPR valve 1	DT06-2S-EP06	-
CN-366	DEUTSCH	2	Attachment relief EPPR valve 2	DT06-2S-EP06	DT04-2P-E005
CN-367	DEUTSCH	2	Boom down floating solenoid	DT06-2S-EP06	-
CN-368	DEUTSCH	2	Boom up floating solenoid	DT06-2S-EP06	-
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	TYCO	23	RDU	7706087-2	-
CN-378	DEUTSCH	2	Attachment EPPR 2 pressure sensor	DT06-2S-EP06	-
CN-379	TYCO	12	SCR supply module	2-1703639-1	-
CN-381	BOSCH	2	DEF/AdBlue® line heater 1	1-928-403-847	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-382	BOSCH	2	DEF/AdBlue® line heater 2	1-928-403-847	-
CN-383	BOSCH	2	DEF/AdBlue® line heater 3	1-928-403-847	-
CN-384	DEUTSCH	2	Coolant valve	DT06-2S-EP06	-
CN-385	-	7	Fan clutch	965570	-
CN-398	DEUTSCH	4	RS 232	DT04-4S-E005	DT06-4P-E005
CN-399	TYCO	-	DEF/AdBlue® tank level sensor	1-967325-1	-
CN-399	DEUTSCH	4	Service tool	-	DT04-4P-E005
CN-401	FCI	90	AAVM controller	A2C00021583	-
CN-402	DEUTSCH	6	Front view camera	DT06-6S-P021	DT04-6P-P021
CN-403	DEUTSCH	6	Rear view camera	-	DT04-6P-EP14
CN-404	DEUTSCH	6	Left view camera	-	DT04-6P-EP14
CN-405	DEUTSCH	6	Right view camera	-	DT04-6P-EP14
CN-406	DEUTSCH	3	RS 232	DT06-3S-EP06	DT04-3P-E005
CN-419	DEUTSCH	2	Swing parking A1	DT06-2S-EP06	-
CN-420	DEUTSCH	2	Swing parking A2	DT06-2S-EP06	-
CN-421	DEUTSCH	2	Swing parking A3	DT06-2S-EP06	-
CN-427	MOLEX	4	Reader	039012040	026013096
		12		5557-12R	5559-12P
CN-429	DELPHI	2	CAC out temperature	12162197	-
CN-430	DEUTSCH	6	I/conn (Side harness RH-Aftertreatment harness)	DT06-6S-EP06	DT06-6P-E005
CN-J7A	TYCO	4	DOC NOx sensor	2-1418390-1	-
CN-J7B	TYCO	4	SCR NOx sensor	1-1418390-1	-
CN-J10	TYCO	4	SCR thermistor	5-1418390-1	-
CN-J17	TYCO	4	DOC thermistor	4-1418390-1	-
CN-J31	BOSCH	2	DEF/AdBlue® dosing module	1_928_403_874	-
· 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-11	AMP	3	Flasher unit relay	S810-003702	-
CR-12	-	5	Travel speed relay	-	-
CR-13	-	5	Head lamp low relay	-	-
CR-14	-	5	Head lamp high relay	-	-
CR-15	-	5	Illumination relay	-	-
CR-23	KET	2	Start relay	S814-002001	-
CR-24	RING TERM	1	Preheat relay	S822-014000	-

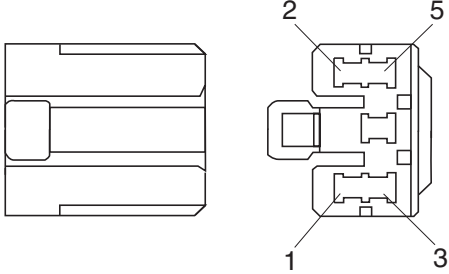
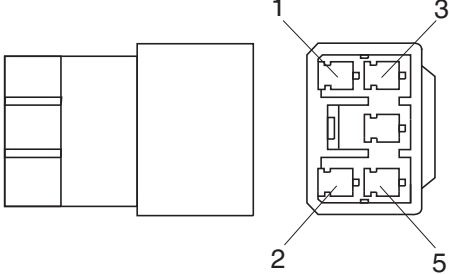
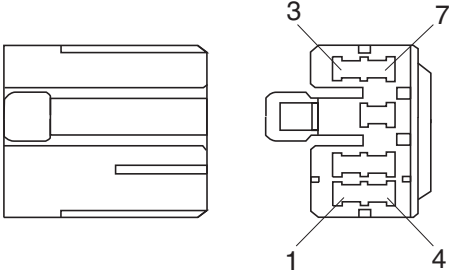
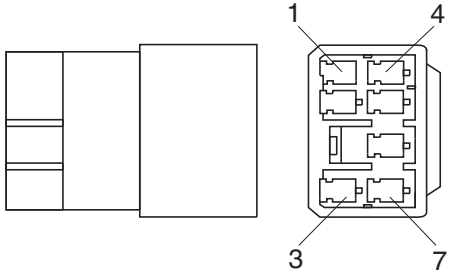
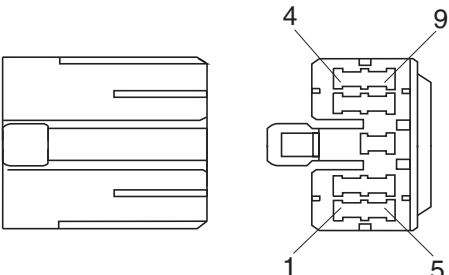
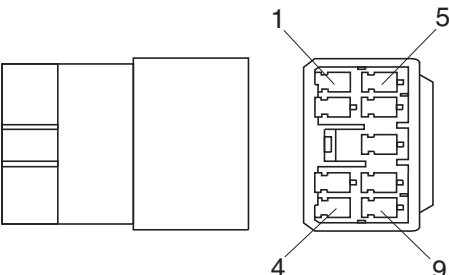
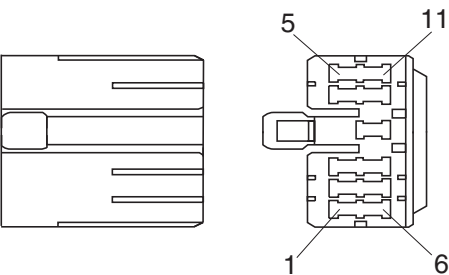
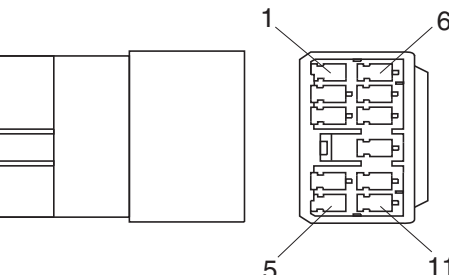
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				Female	Male
CR-29	-	5	Travel forward relay	-	-
CR-30	-	5	Travel reverse relay	-	-
CR-35	-	5	Power relay	-	-
CR-36	-	5	Preheat relay	-	-
CR-39	-	5	Starter lockout relay	-	-
CR-44	-	5	Rear work lamp relay	-	-
CR-45	-	5	Stop lamp relay	-	-
CR-46	-	5	Fuel warmer relay	-	-
CR-47	-	5	Safety solenoid relay	-	-
CR-62	-	5	Breaker relay	-	-
CR-66	-	5	Parking relay	-	-
CR-78	-	5	Head lamp power relay	-	-
CR-79	-	5	Pedal relay	-	-
CR-81	-	5	Front outrigger relay - RH	-	-
CR-82	-	5	Front outrigger relay - LH	-	-
CR-83	-	5	Rear outrigger relay - RH	-	-
CR-84	-	5	Rear outrigger relay - LH	-	-
CR-85	-	5	Beacon lamp relay	-	-
CR-93	-	5	Travel buzzer lamp relay	-	-
CR-102	-	5	NOx sensor relay	-	-
CR-103	-	5	DEF module relay	-	-
CR-104	-	5	Line heater relay	-	-
· Switch					
CS-1	SHUR	1	Door switch	S822-014002	-
CS-2A	WP	6	Start key switch	S814-006100	-
CS-2B	DEUTSCH	3	Smart key	DT06-3S-EP06	DT04-3P-E005
CS-4	DEUTSCH	3	Safety switch 1	DT06-3S-EP06	-
CS-5	DEUTSCH	2	Horn switch	-	DT04-2P-E005
CS-19	DEUTSCH	2	One touch decel switch	-	DT04-2P-E005
CS-20	AMP	1	Safety switch 2	S822-014002	-
CS-26	DEUTSCH	2	Breaker switch	DT06-2S-EP06	-
CS-29	DEUTSCH	2	Power max switch	DT06-2S-EP06	-
CS-52	CARLING	10	Travel buzzer	VC2-01	-
CS-52	CARLING	10	2 PCS & 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	-

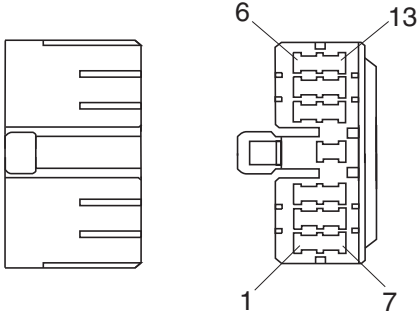
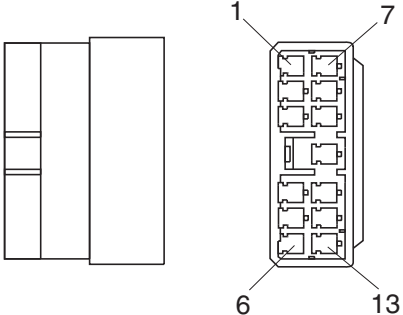
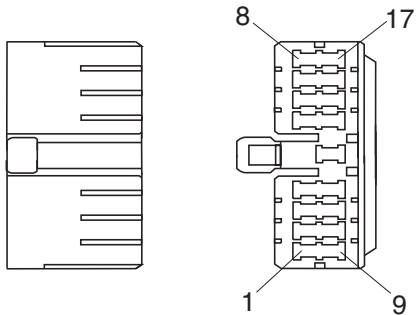
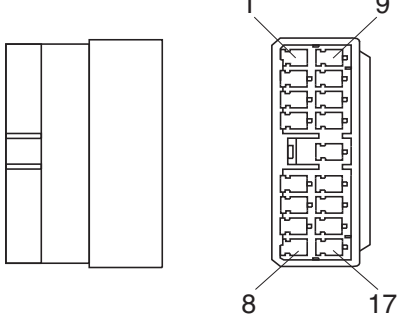
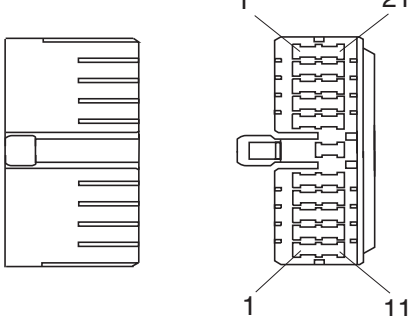
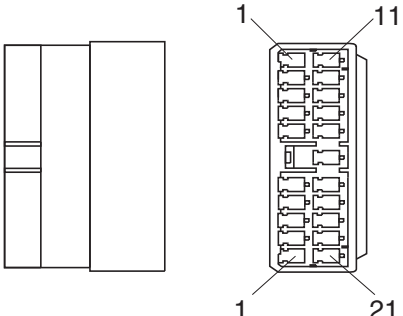
Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CS-74B	DEUTSCH	2	Master switch	DT06-2S-EP06	-
CS-78	CARLING	10	Lower wiper switch	VC2-01	-
CS-99	CARLING	10	Air compressor switch	VC2-01	-
CS-100	CARLING	10	SCR switch	VC2-01	-
CS-108	CARLING	10	Auto grease switch	VC2-01	-
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	-	3	Head lamp-LH	S810-003702	-
CL-4	-	3	Head lamp-RH	S810-003702	-
CL-5	DEUTSCH	2	Work lamp-LH	DT06-2S-EP06	-
CL-6	DEUTSCH	2	Work lamp-RH	DT06-2S-EP06	-
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-RH	DT06-2S-EP06	DT04-2P
CL-15	AMP	6	Rear combination lamp-LH	PB625-06027	-
CL-16	AMP	6	Rear combination lamp-RH	PB625-06027	-
CL-21	KET	2	Number plate lamp	-	S814-102000
CL-24	AMP	3	Front combination lamp-LH	S816-003002	-
CL-24	DEUTSCH	2	Rear work lamp	DT06-2S-EP06	DT04-2P-E005
CL-25	AMP	3	Front combination lamp-RH	S816-003002	-
CL-26	-	2	Side marker-LH	S816-002002	-
CL-27	-	3	Side marker-RH	S816-002002	-
CL-40	DEUTSCH	2	DEF/AdBlue® lamp	DT06-2S-EP06	-
CL-41	DEUTSCH	2	DEF/AdBlue® Fill up warning lamp	DT06-2S-EP06	-
· Sensor, sendor					
CD-1	AMP	2	Hydraulic oil temp sender	85202-1	-
CD-2	DEUTSCH	2	Fuel level sender	DT06-2S-EP06	-
CD-3	DEUTSCH	3	Brake oil pressure sensor	DT06-3S-EP06	-
CD-4	DEUTSCH	3	Stop lamp pressure sensor	DT06-3S-EP06	-
CD-5	DEUTSCH	3	Transmission oil pressure sensor	DT06-3S-EP06	-
CD-6	DEUTSCH	3	Travel pressure sensor	DT06-3S-EP06	-
CD-7	DEUTSCH	3	Working pressure sensor	DT06-3S-EP06	-
CD-9	DEUTSCH	3	Arm in pressure sensor	DT06-3S-EP06	-
CD-10	SUMITOMO	4	PRS temperature sensor	6098-0144	-
CD-10	AMP	2	Air cleaner switch	85202-1	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CD-16	AMP	3	Water level sensor	1211-0293	-
CD-24	DEUTSCH	3	Swing pressure sensor	DT06-3S-EP06	-
CD-31	DEUTSCH	3	Overload pressure sensor	DT06-3S-EP06	-
CD-32	DEUTSCH	3	Boom up pressure sensor	DT06-3S-EP06	-
CD-35	DEUTSCH	3	Arm in & out and bucket in pressure sensor	DT06-3S-EP06	-
CD-38	DEUTSCH	3	Work brake pressure sensor	DT06-3S-EP06	-
CD-42	DEUTSCH	3	Pump pressure 1	DT06-3S-EP06	-
CD-43	DEUTSCH	3	Pump pressure 2	DT06-3S-EP06	-
CD-44	DEUTSCH	3	Pump pressure 3	DT06-3S-EP06	-
CD-45	DEUTSCH	2	WIF sensor	DT06-2S-EP06	-
CD-46	AMP	3	Speed sensor	282087	-
CD-50	KET	2	Outtrigger action pressure sensor	MG640975	-
CD-66	DEUTSCH	2	Breaker pressure sensor	DT06-2S-EP06	-
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-73	DEUTSCH	3	Travel forward pressure sensor	DT06-3S-EP06	-
CD-74	DEUTSCH	3	Travel reverse pressure sensor	DT06-3S-EP06	DT04-3P
CD-85	DEUTSCH	3	Boom down pressure sensor	DT06-3S-EP06	-
CD-90	DEUTSCH	3	Arm in pressure soensor	DT06-3S-EP06	-
CD-100	DEUTSCH	3	Outtrigger pressure sensor	DT06-3S-EP06	-
CD-124	DEUTSCH	3	Boom rod cylinder pressure sensor	DT06-3S-EP06	-

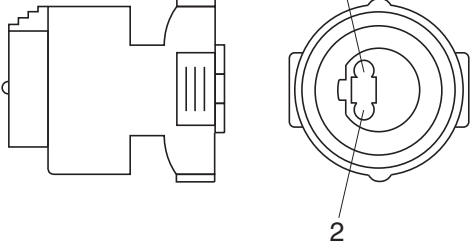
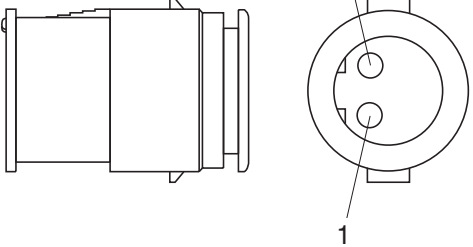
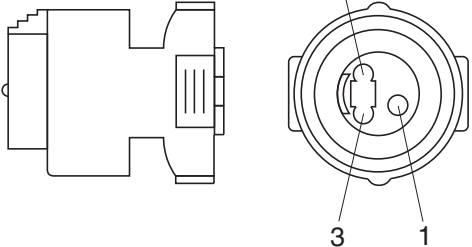
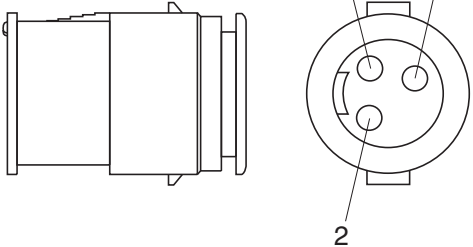
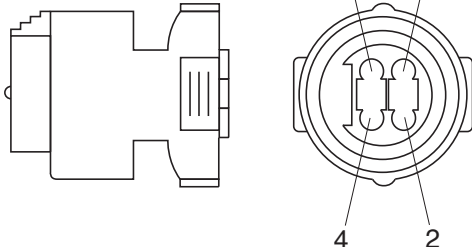
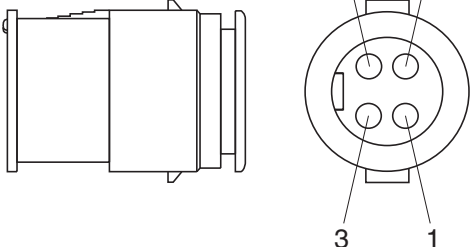
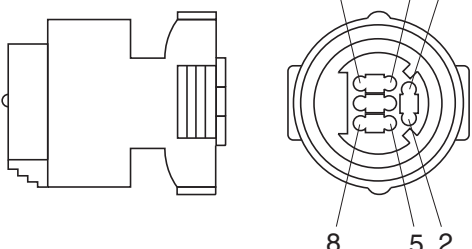
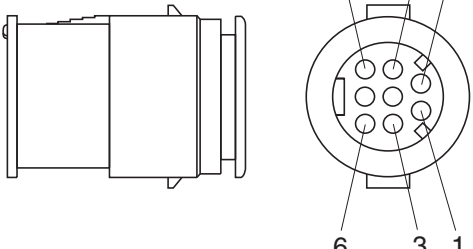
2. CONNECTION TABLE FOR CONNECTORS

1) PA TYPE CONNECTOR

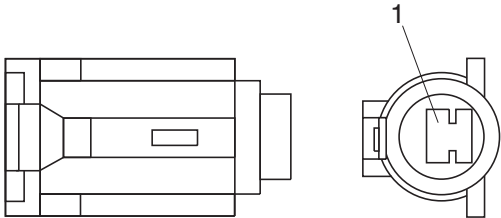
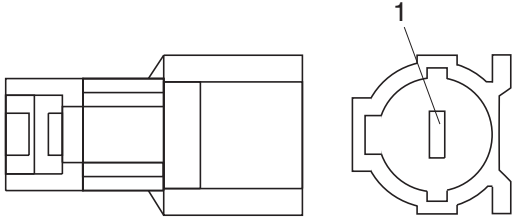
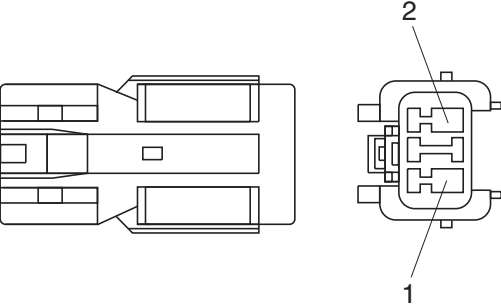
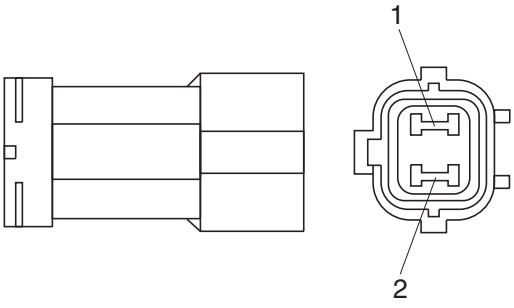
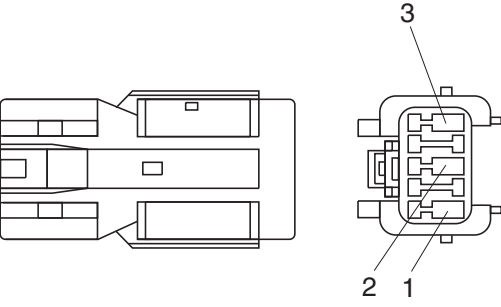
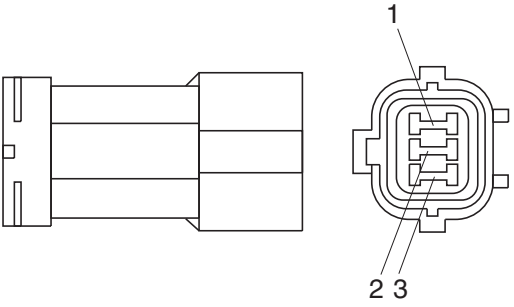
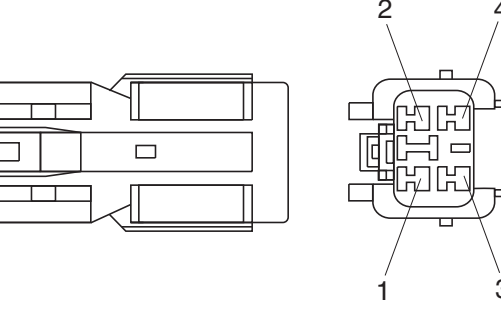
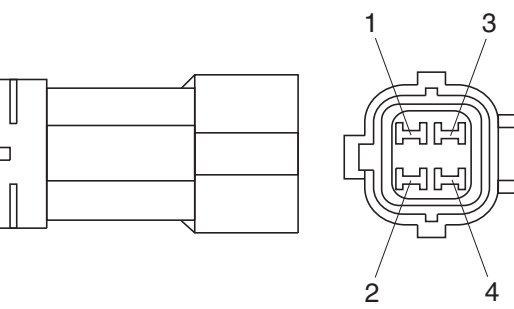
No. of pin	Receptacle connector (female)	Plug connector (male)
5	 S811-005002	 S811-105002
7	 S811-007002	 S811-107002
9	 S811-009002	 3S811-109002
11	 S811-011002	 S811-111002

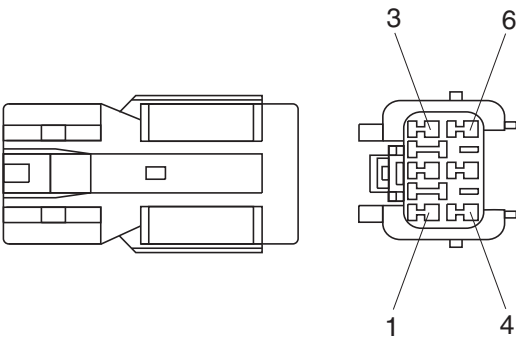
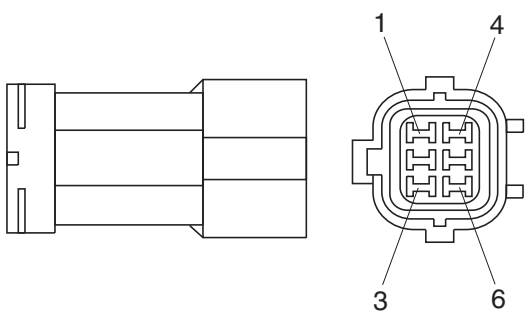
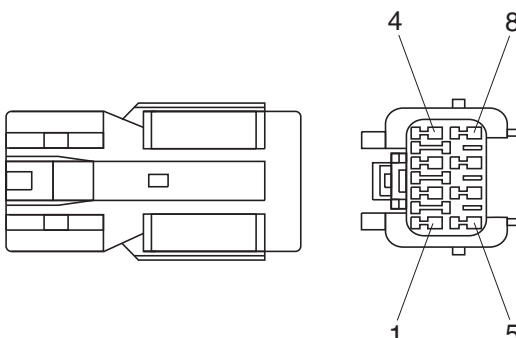
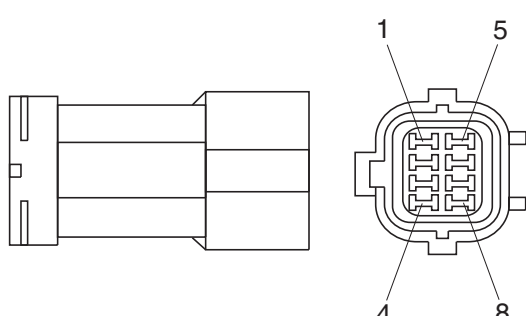
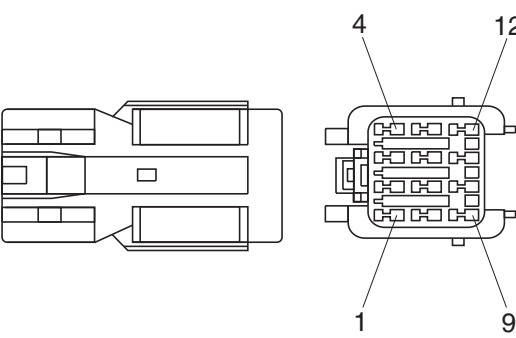
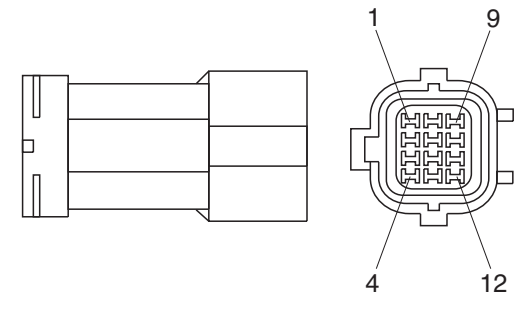
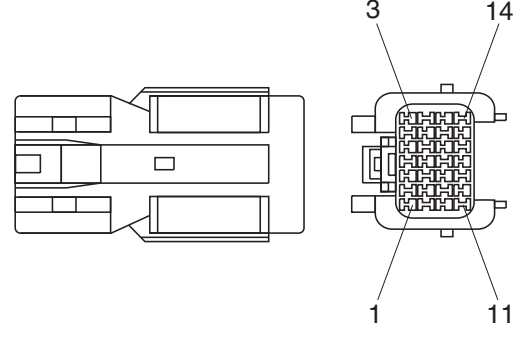
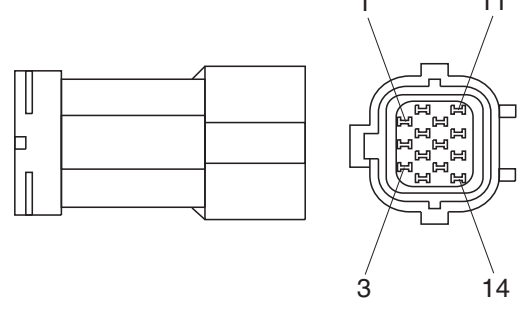
No. of pin	Receptacle connector (female)	Plug connector (male)
13	 S811-013002	 S811-113002
17	 S811-017002	 S811-117002
21	 S811-021002	 S811-121002

2) J TYPE CONNECTOR

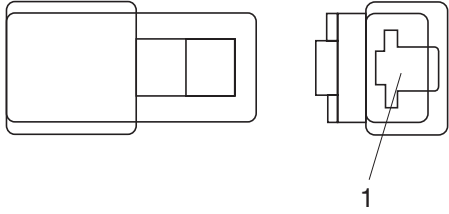
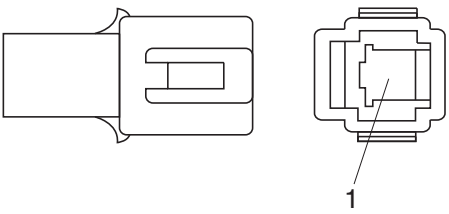
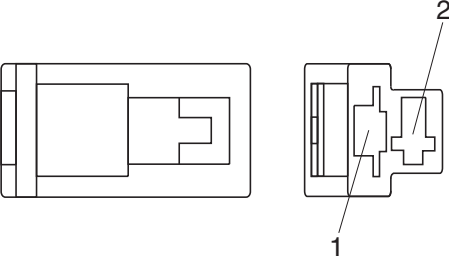
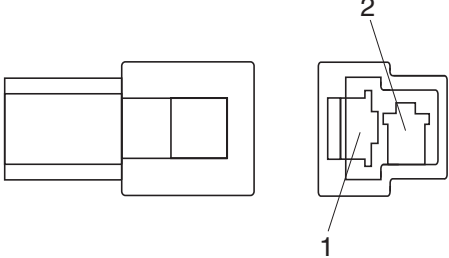
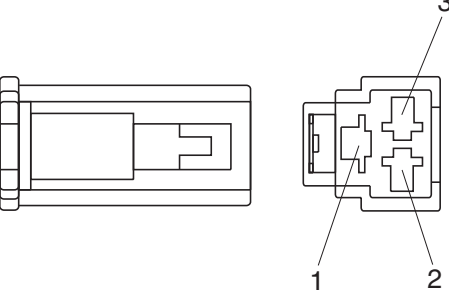
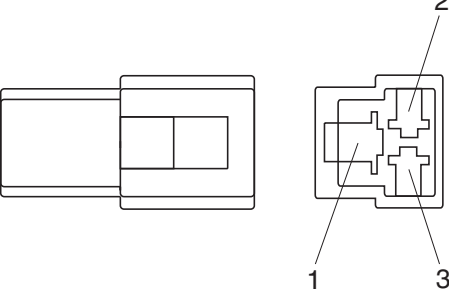
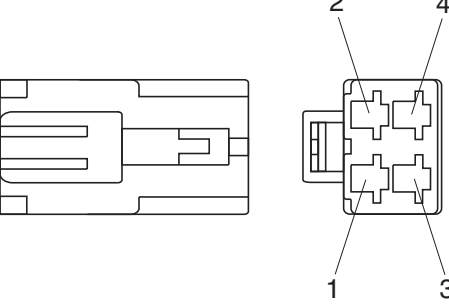
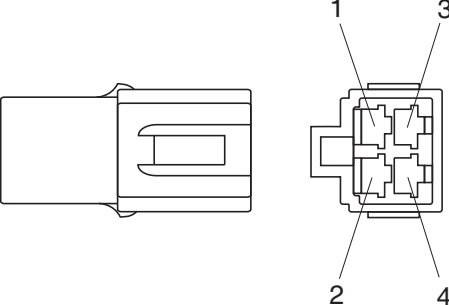
No. of pin	Receptacle connector (female)	Plug connector (male)
2	 S816-002001	 S816-102001
3	 S816-003001	 S816-103001
4	 S816-004001	 S816-104001
8	 S816-008001	 S816-108001

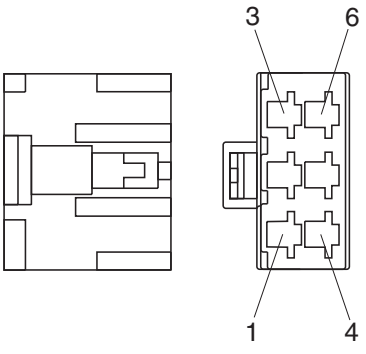
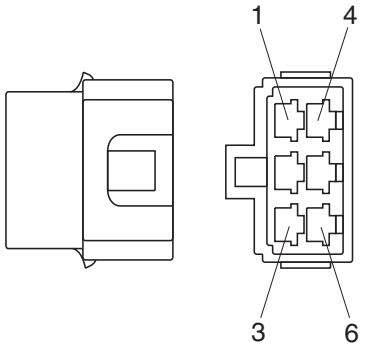
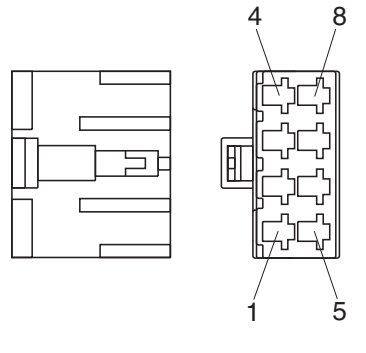
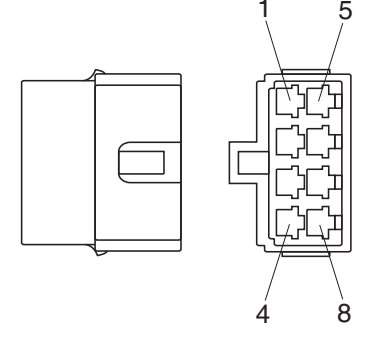
3) SWP TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 S814-001000	 S814-101000
2	 S814-002000	 S814-102000
3	 S814-003000	 S814-103000
4	 S814-004000	 S814-104000

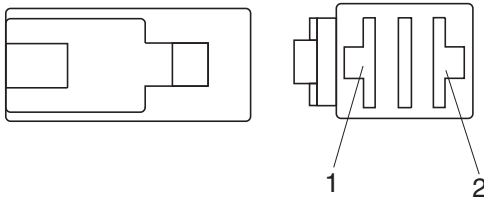
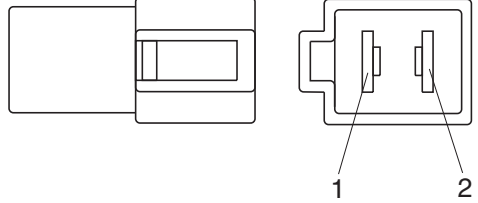
No. of pin	Receptacle connector (female)	Plug connector (male)
6	 S814-006000	 S814-106000
8	 S814-008000	 S814-108000
12	 S814-012000	 S814-112000
14	 S814-014000	 S814-114000

4) CN TYPE CONNECTOR

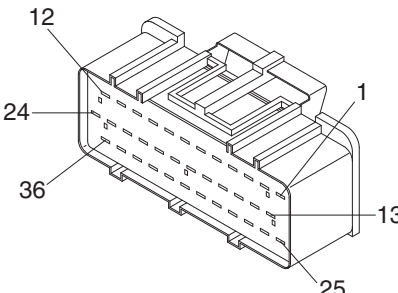
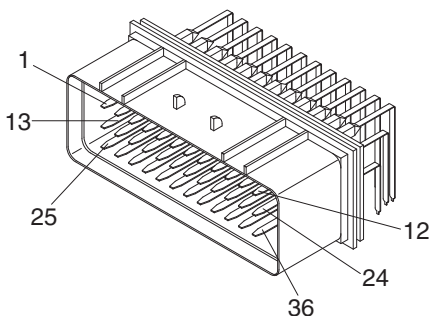
No. of pin	Receptacle connector (female)	Plug connector (male)
1	 S810-001202	 S810-101202
2	 S810-002202	 S810-102202
3	 S810-003202	 S810-103202
4	 S810-004202	 S810-104202

No. of pin	Receptacle connector (female)	Plug connector (male)
6	 S810-006202	 S810-106202
8	 S810-008202	 S810-108202

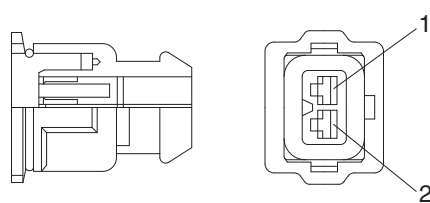
5) 375 FASTEN TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 S810-002402	 S810-102402

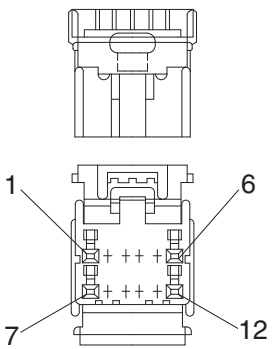
6) AMP ECONOSEAL CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
36	 344111-1	 344108-1

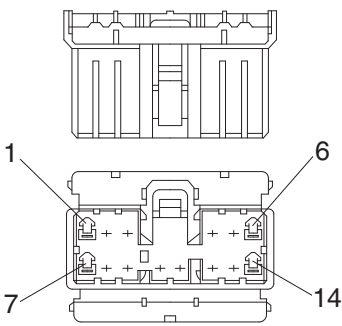
7) AMP TIMER CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 85202-1	

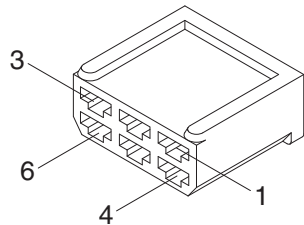
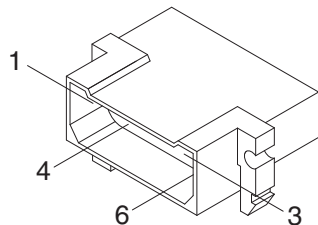
8) AMP 040 MULTILOCK CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
12	 174045-2	

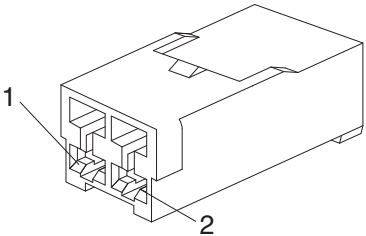
9) AMP 070 MULTILOCK CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
14	 173852	

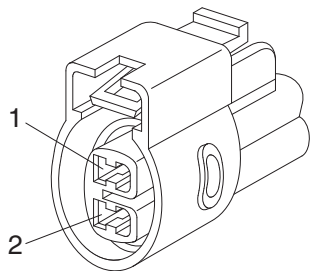
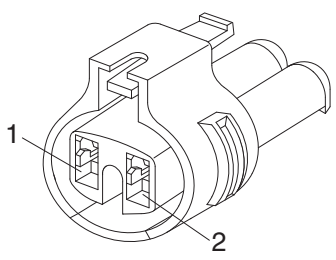
10) AMP FASTIN - FASTON CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
6	 925276-0	 480003-9

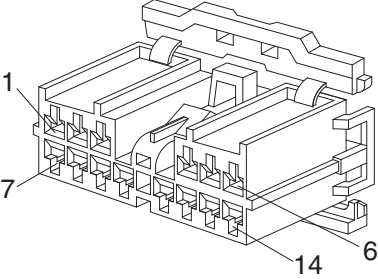
11) KET 090 CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 MG610070	

12) KET 090 WP CONNECTORS

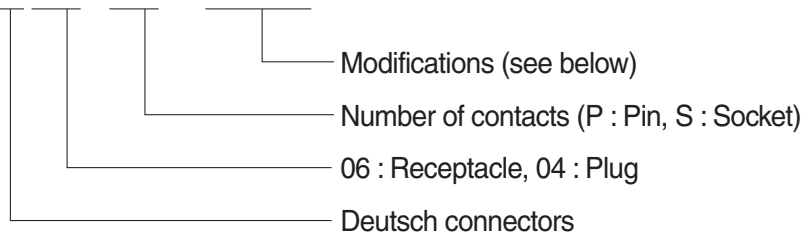
No. of pin	Receptacle connector (female)	Plug connector (male)
2	 MG640605	
2	 MG640795	

13) KET SDL CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
14	 MG610406	

14) DEUTSCH DT CONNECTORS

DT 06 - 3S - ★★★★★



※ Modification

E003 : Standard end cap - gray

E004 : Color of connector to be black

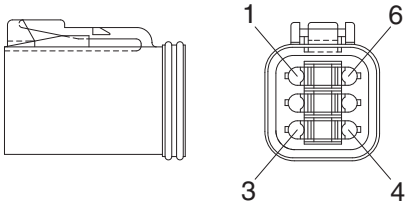
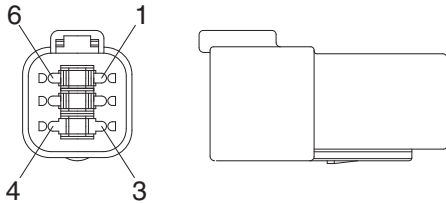
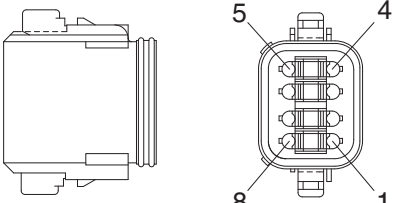
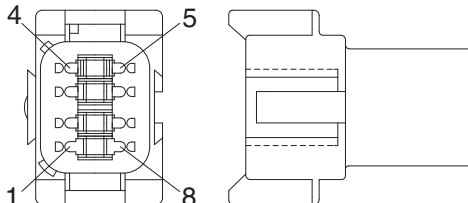
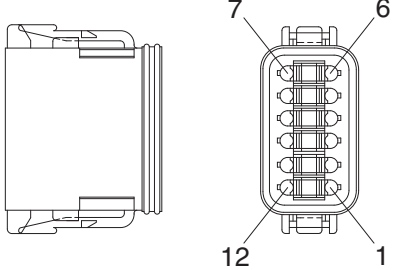
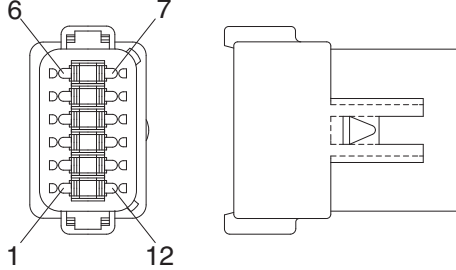
E005 : Combination - E004 & E003

EP04 : End cap

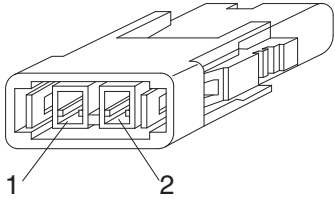
EP06 : Combination P012 & EP04

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

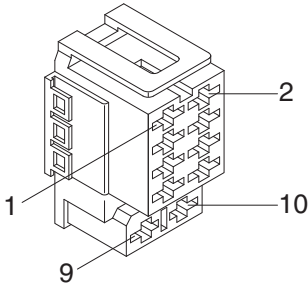
No. of pin	Receptacle connector (female)	Plug connector (male)
2	DT06-2S	DT04-2P
3	DT06-3S	DT04-3P
4	DT06-4S	DT04-4P

No. of pin	Receptacle connector (female)	Plug connector (male)
6	 DT06-6S	 DT04-6P
8	 DT06-8S	 DT04-8P
12	 DT06-12S	 DT04-12P

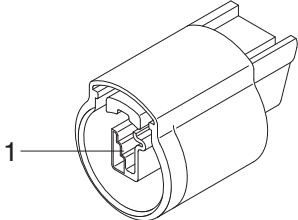
15) MOLEX 2CKTS CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 35215-0200	

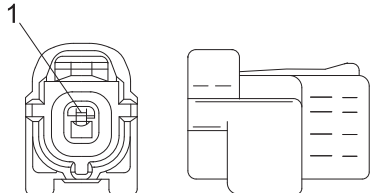
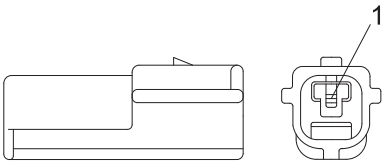
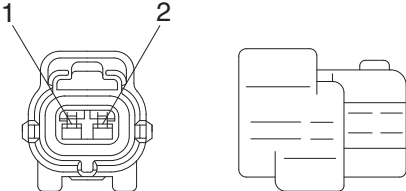
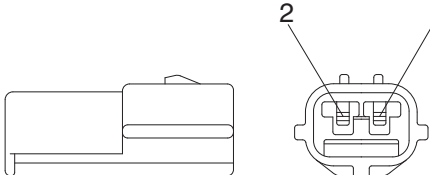
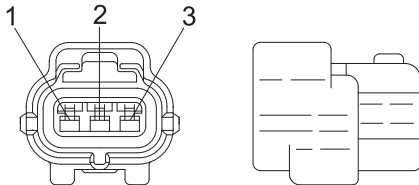
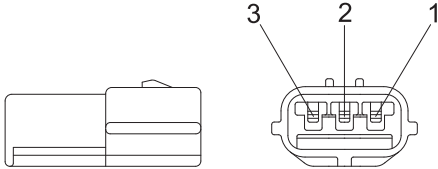
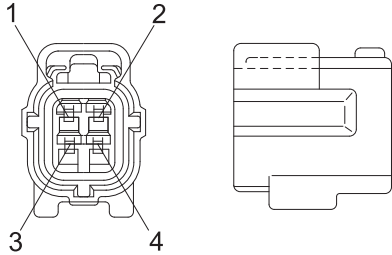
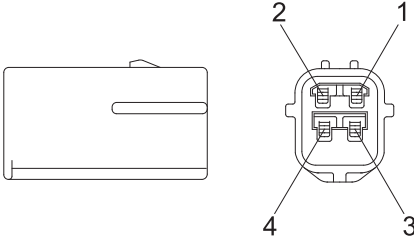
16) ITT SWF CONNECTOR

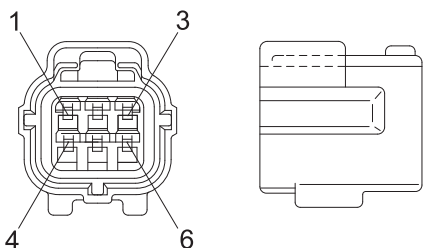
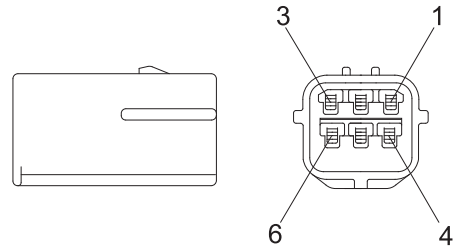
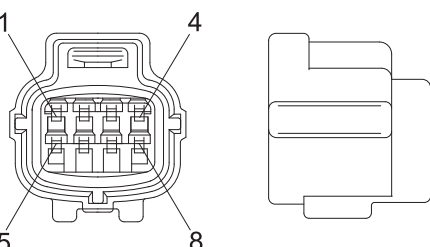
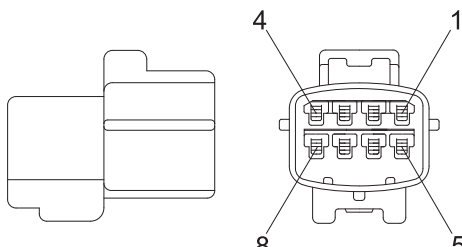
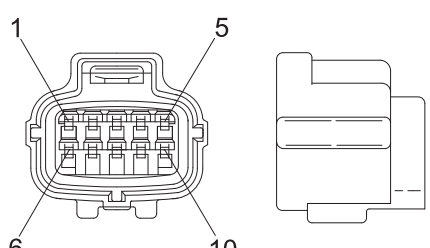
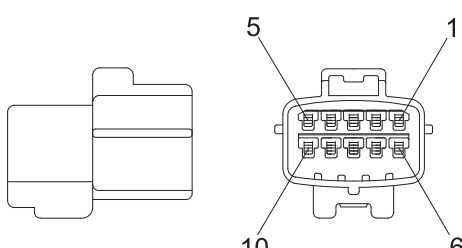
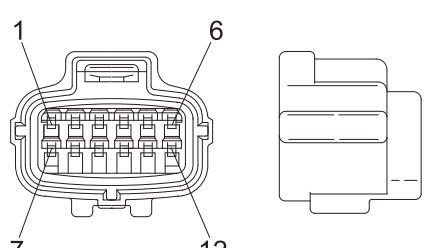
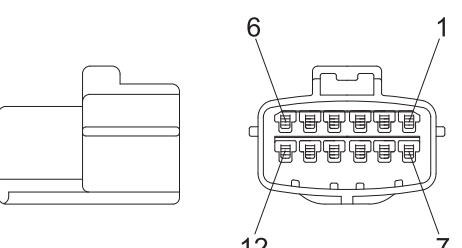
No. of pin	Receptacle connector (female)	Plug connector (male)
10	 SWF593757	

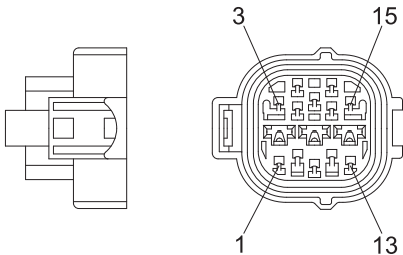
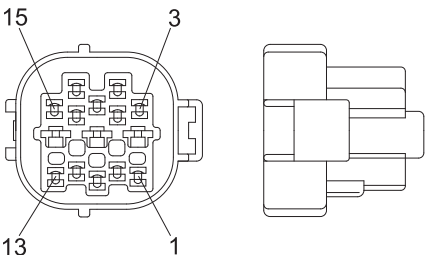
17) MWP NMWP CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 NMWP01F-B	

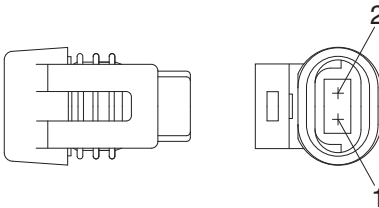
18) ECONOSEAL J TYPE CONNECTORS

No. of pin	Receptacle connector (female)	Plug connector (male)
1	 S816-001002	 S816-101002
2	 S816-002002	 S816-102002
3	 S816-003002	 S816-103002
4	 S816-004002	 S816-104002

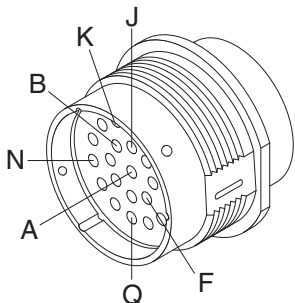
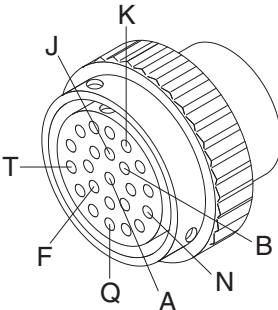
No. of pin	Receptacle connector (female)	Plug connector (male)
6	 S816-006002	 S816-106002
8	 S816-008002	 S816-108002
10	 S816-010002	 S816-110002
12	 S816-012002	 S816-112002

No. of pin	Receptacle connector (female)	Plug connector (male)
15	 368301-1	 2-85262-1

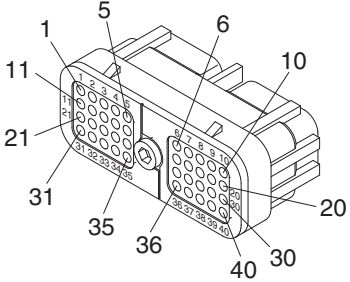
19) METRI-PACK TYPE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
2	 12040753	

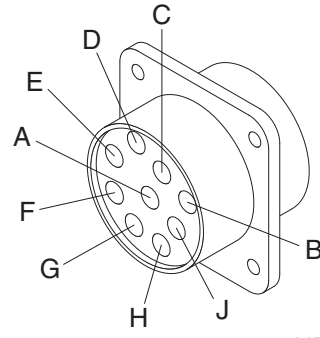
20) DEUTSCH HD30 CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
23	 HD36-24-23SN	 HD34-24-23PN

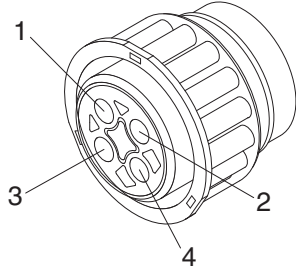
21) DEUTSCH MCU CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
40	 DRC26-40SA/B	

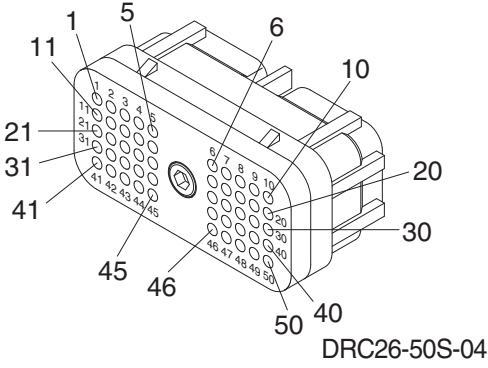
22) DEUTSCH SERVICE TOOL CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
9	 HD10-9-96P	

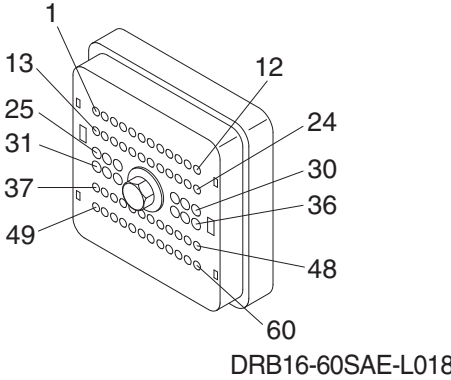
23) AMP FUEL WARMER CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
4	 2-967325-3	

24) DEUTSCH ENGINE ECM CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
50	 DRC26-50S-04	

25) DEUTSCH INTERMEDIATE CONNECTOR

No. of pin	Receptacle connector (female)	Plug connector (male)
60	 DRB16-60SAE-L018	