

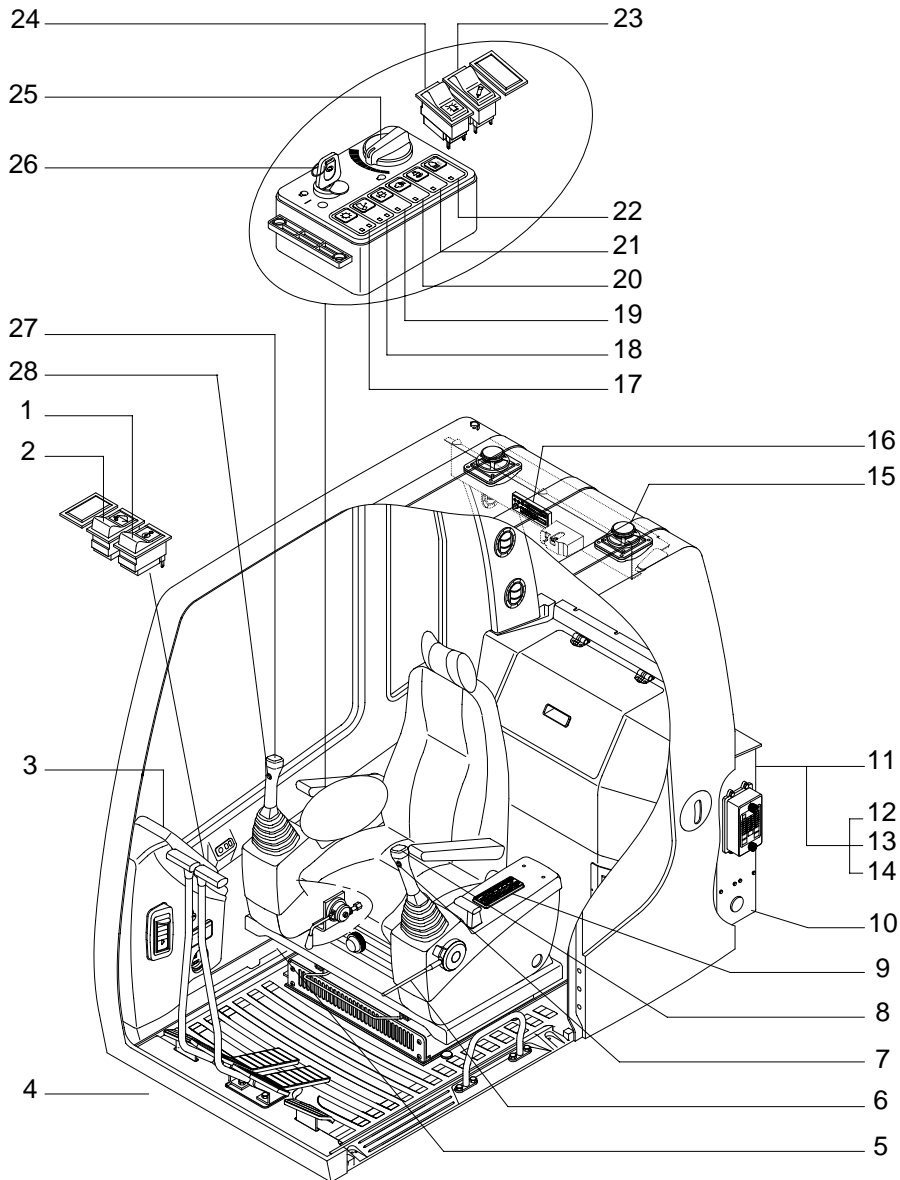
SECTION 4 ELECTRICAL SYSTEM

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SECTION 4 ELECTRICAL SYSTEM

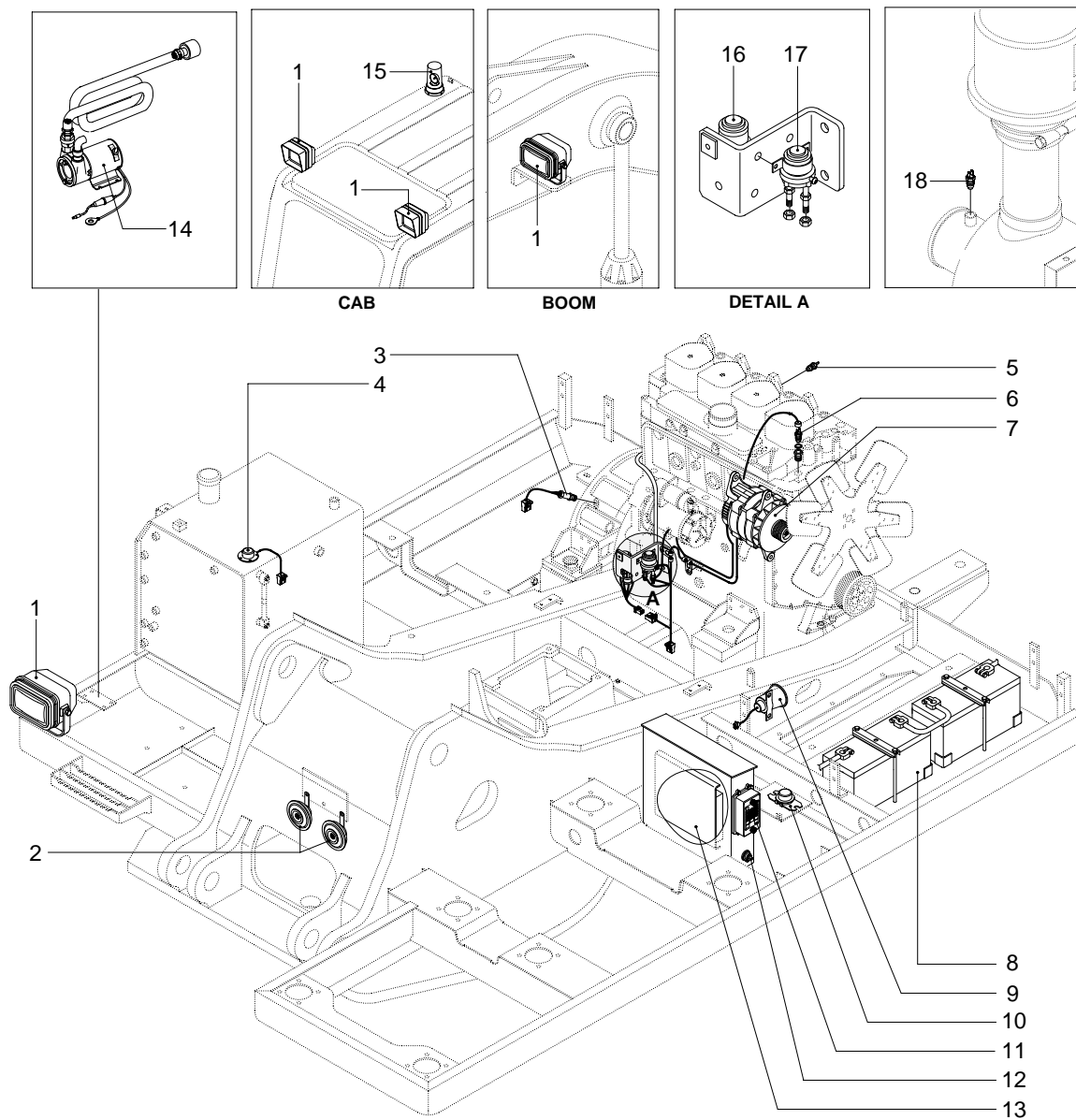
GROUP 1 COMPONENT LOCATION

1. LOCATION 1



- | | | | | | |
|---|-------------------------------------|----|-------------------|----|--------------------------|
| 1 | Overload switch | 10 | Master switch | 20 | Preheat switch |
| 2 | Quick coupling switch | 11 | Electric box | 21 | Travel alarm stop switch |
| 3 | Cluster | 12 | CPU controller | 22 | Cab light switch |
| 4 | Hour meter | 13 | Prolix resistor | 23 | Breaker selection switch |
| 5 | Emergency engine acceleration lever | 14 | Fuse box | 24 | Beacon switch |
| 6 | Safety lever | 15 | Speaker | 25 | Accel dial |
| 7 | Power max switch | 16 | Cassette radio | 26 | Start switch |
| 8 | One touch decel switch | 17 | Main light switch | 27 | Horn switch |
| 9 | Air-con switch | 18 | Wiper switch | 28 | Breaker operation switch |
| | | 19 | Washer switch | | |

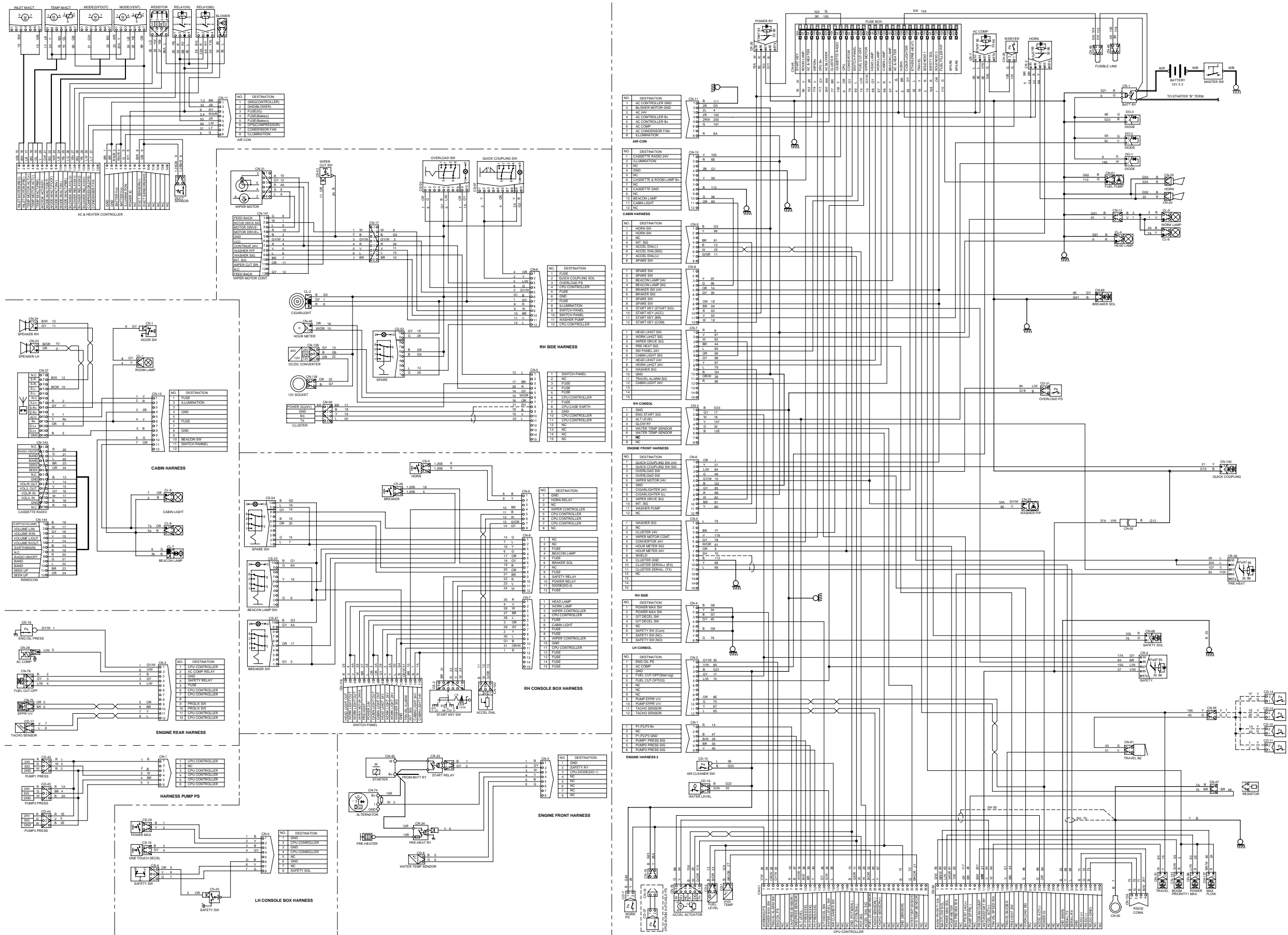
2. LOCATION 2

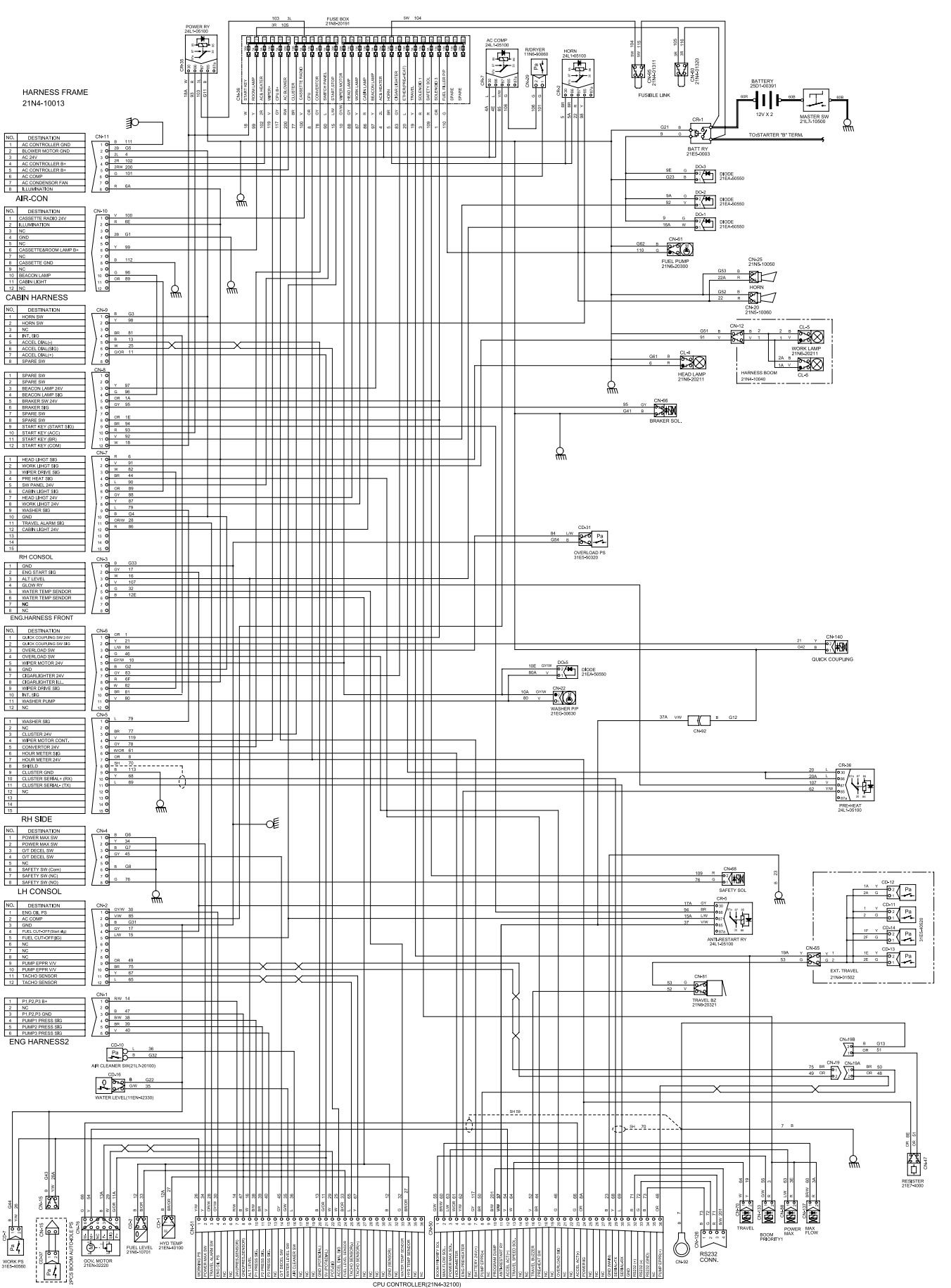
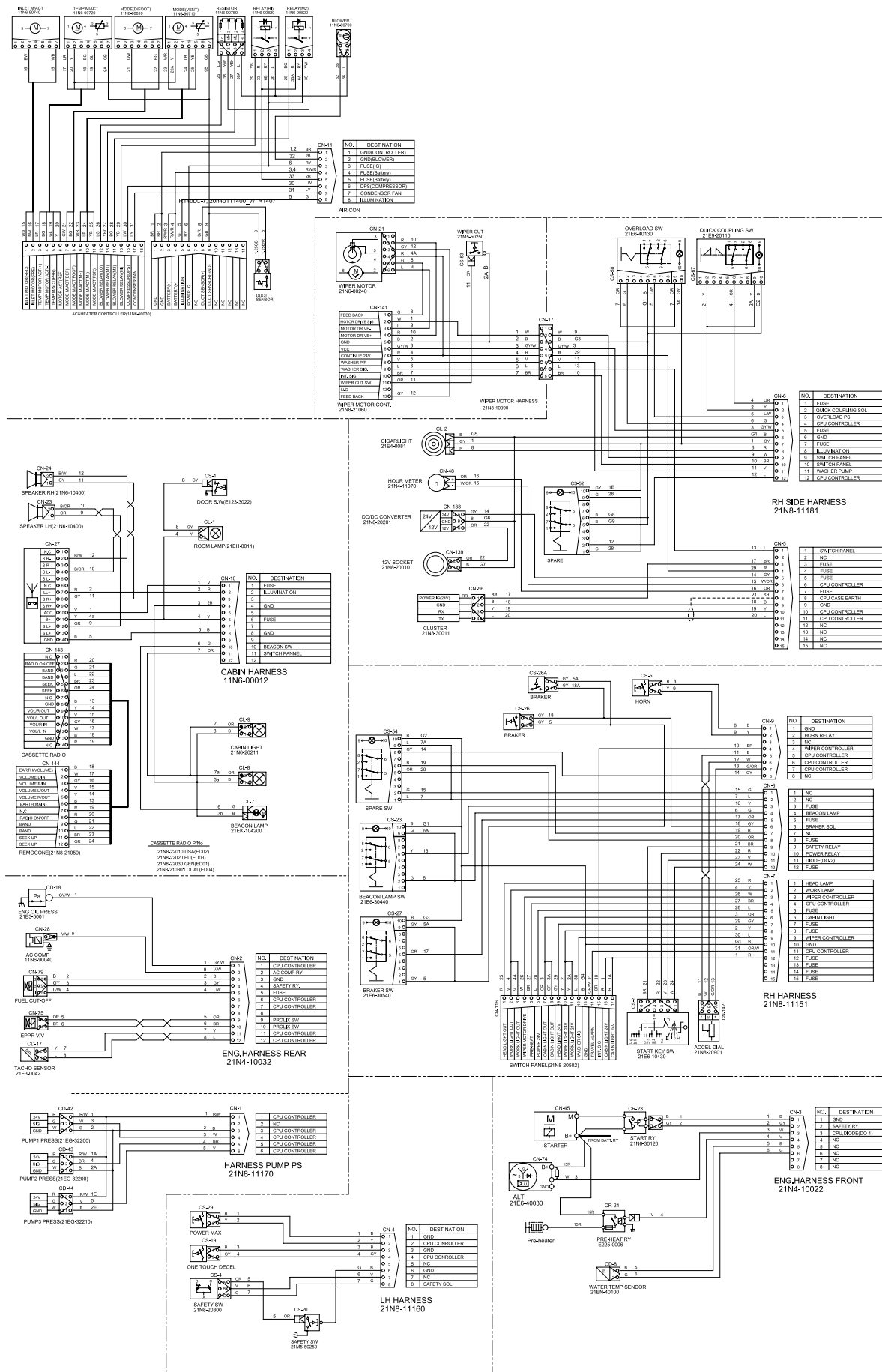


- | | | | | | |
|---|----------------------------|----|---------------------|----|--------------------|
| 1 | Lamp | 7 | Alternator | 13 | CPU Controller |
| 2 | Horn | 8 | Battery | 14 | Fuel filler pump |
| 3 | Speed sensor | 9 | Travel alarm buzzer | 15 | Beacon lamp |
| 4 | Fuel sender | 10 | Battery relay | 16 | Start relay |
| 5 | Engine oil pressure switch | 11 | Fuse box | 17 | Heater relay |
| 6 | Temp sender | 12 | Master switch | 18 | Air cleaner switch |

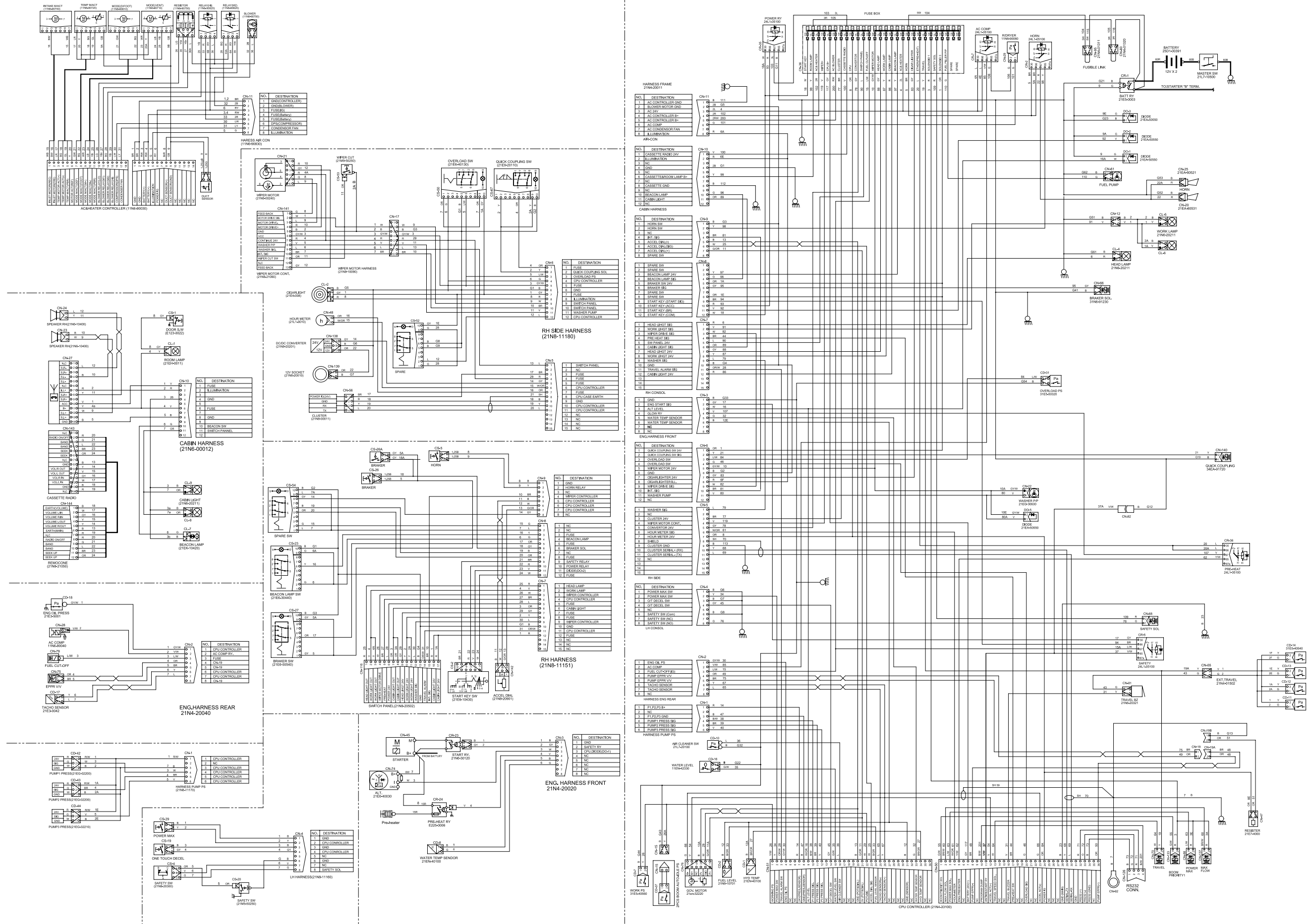
GROUP 2 ELECTRICAL CIRCUIT

1) UP TO #0255





3) #1001 AND UP (TIER II)

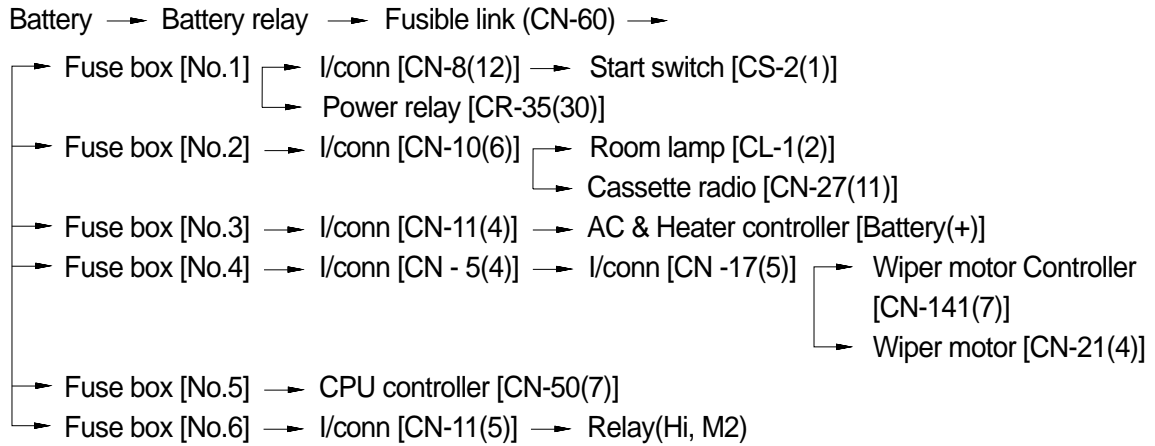


1. POWER CIRCUIT

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



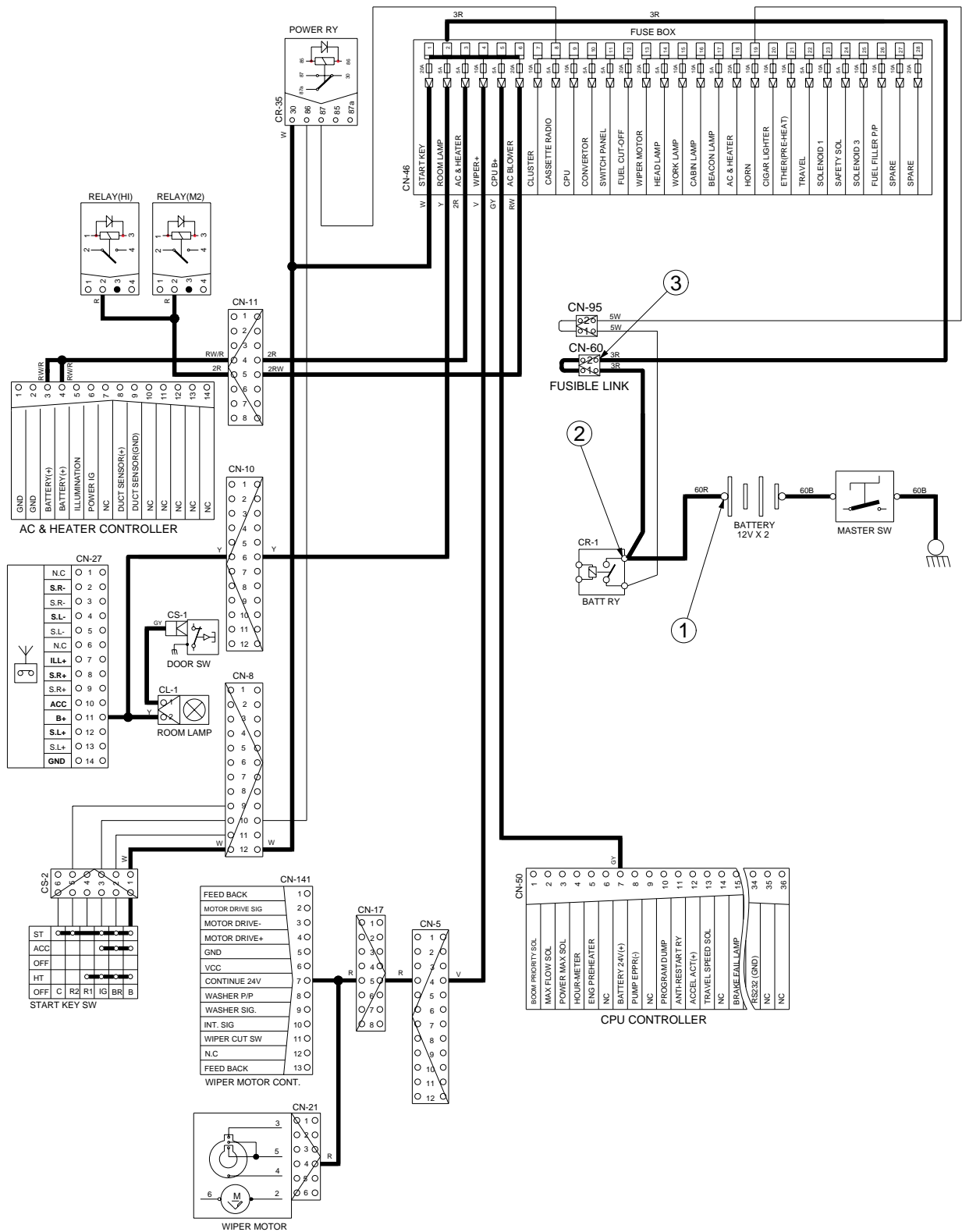
I/conn : Intermediate connector

2) CHECK POINT

Engine	Start switch	Check point	Voltage
OFF	OFF	① - GND (Battery 2 EA) ② - GND (Battery 2 EA) ③ - GND (Fusible link)	20~25V 20~25V 20~25V

GND : Ground

POWER CIRCUIT



2. STARTING CIRCUIT

A. TIER I(UP TO #1000)

1) OPERATING FLOW

Battery(+) terminal → Battery relay[CR-1] → Fusible link → Fuse box No.1
 → I/conn [CN-8(12)] → Start key [CS-2(1)]

Start switch : ON

→ Start switch ON [CS-2(2)] → I/conn [CN-8(11)] → Diode[DO-2] →
 Battery relay [CR-1]:Battery relay operating(All power is supplied with the electric component)
 → Start switch ON [CS-2(3)] → I/conn [CN-8(10)] → Power relay [CR-35(86) (87)]
 → Fuse box No.12 → I/conn [CN-2(5)] → Fuel cut-off [CN-79(1)]

Start switch : START

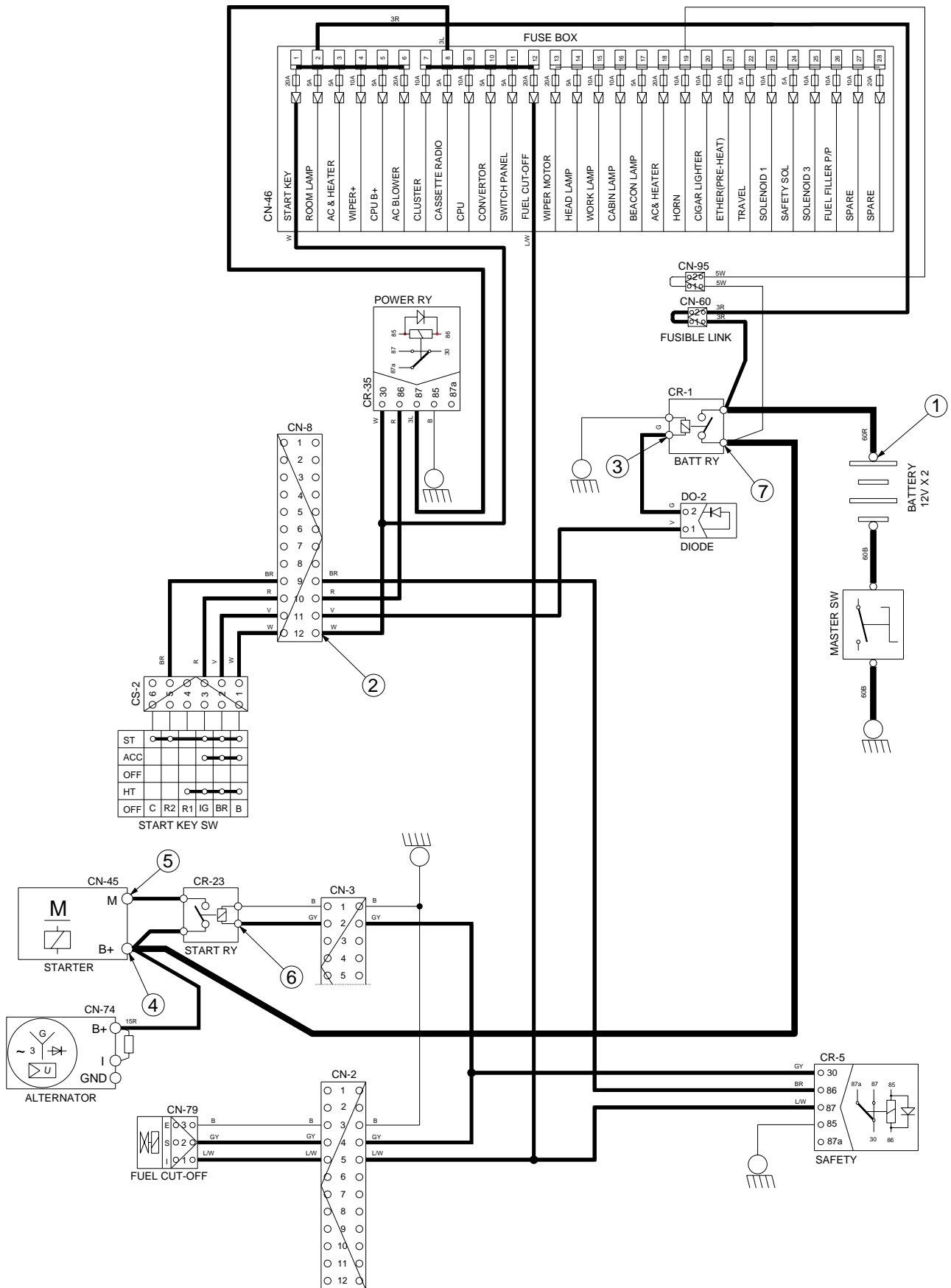
Start switch START[CS-2(5)] → I/conn[CN-8(9)] → Safety relay [CR-5(86) (30)]
 → I/conn [CN-3(2)] → Start relay [CR-23]
 → I/conn [CN-2(4)] → Fuel cut off [CN-79(2)]

2) CHECK POINT

Engine	Start switch	Check point	Voltage
Operating	Start	<ul style="list-style-type: none"> - GND (Battery) - GND (Start key) - GND (Battery relay M4) - GND (Starter B +) - GND (Starter M) - GND (Start relay) - GND (Battery relay M8) 	20 ~ 25V

GND : Ground

STARTING CIRCUIT (TIER I)



B. TIER II(#1001 AND UP)

1) OPERATING FLOW

Battery(+) terminal → Battery relay[CR-1] → Fusible link → Fuse box No.1
 → I/conn [CN-8(12)] → Start key [CS-2(1)]

Start switch : ON

→ Start switch ON [CS-2(2)] → I/conn [CN-8(11)] → Diode[DO-2] →
 Battery relay [CR-1]:Battery relay operating(All power is supplied with the electric component)
 → Start switch ON [CS-2(3)] → I/conn [CN-8(10)] → Power relay [CR-35(86) (87)]
 → Fuse box No.12 → I/conn [CN-2(5)] → Fuel cut-off [CN-79]

Start switch : START

Start switch START[CS-2(5)] → I/conn[CN-8(9)] → Safety relay [CR-5(86) (30)]
 → I/conn [CN-3(2)] → Start relay [CR-23]

After 10 seconds from the engine starts to run, the anti-restart relay [CN-50(11)] opened, the engine cannot restart.

2) CHECK POINT

Engine	Start switch	Check point	Voltage
Operating	Start	<ul style="list-style-type: none"> - GND (Battery) - GND (Start key) - GND (Battery relay M4) - GND (Starter B +) - GND (Starter M) - GND (Start relay) - GND (Battery relay M8) 	20 ~ 25V

GND : Ground

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 " I " terminal → I/conn [CN-3(3)] → CPU Controller [CN-51(9)] → Cluster warning lamp (Via serial interface)

(2) Charging flow

Alternator "B+" terminal → Battery relay → Battery(+) terminal
 → Fusible link → Fuse box

2) CHECK POINT

Engine	Start switch	Check point	Voltage
ON	ON	- GND (Battery voltage) - GND (Battery relay) - GND (Alternator B terminal) - GND (Alternator I terminal) - GND (CPU)	20~27V

GND : Ground

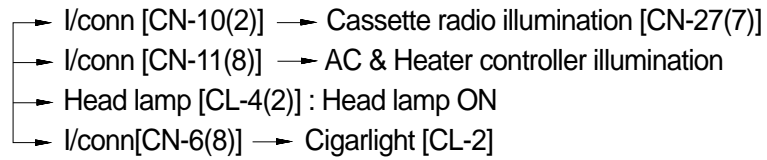
4. HEAD LAMP CIRCUIT

1) OPERATING FLOW

Fuse box (No.14) → I/conn [CN-7(7)] → Switch panel [CN-116(9)]

When lamp switch ON

Switch panel [CN-116(1)] → I/conn [CN-7(1)] →

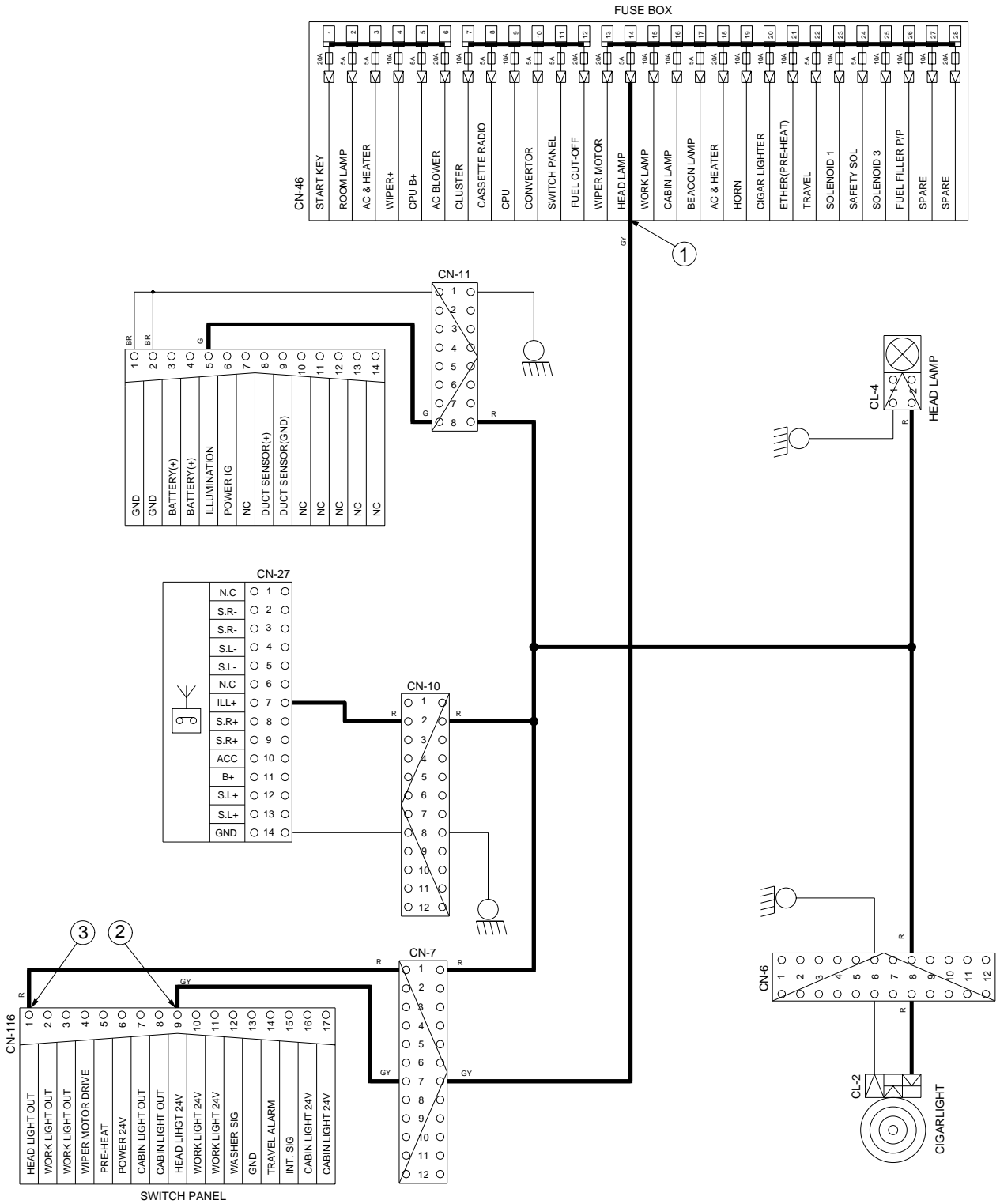


2) CHECK POINT

Engine	Key switch	Check point	Voltage
STOP	ON	- GND (Fuse box) - GND (Switch power input) - GND (Switch power output)	20~25V

GND : Ground

HEAD LAMP CIRCUIT



5. WORK LAMP CIRCUIT

1) OPERATING FLOW

Fuse box (No.15) → I/conn [CN-7(8)] → Switch panel [CN-116(10,11)]

When work lamp switch ON

Work lamp switch ON [CS-116(2,3)] → I/conn [CN-7(2)] → I/conn [CN-12(1)]

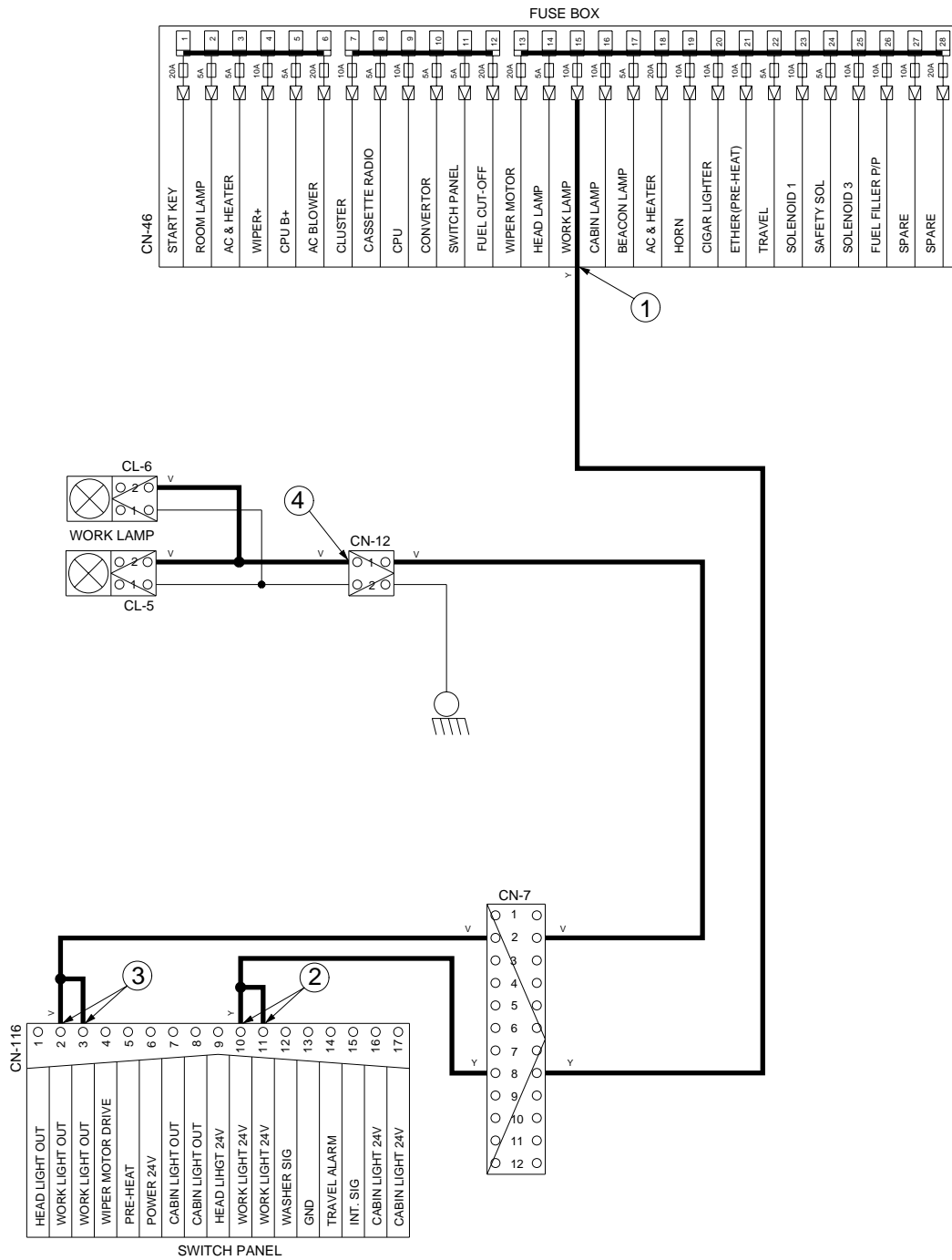
→ Work lamp ON [CL-5(2), CL-6(2)]

2) CHECK POINT

Engine	Key switch	Check point	Voltage
STOP	ON	- GND (Fuse box) - GND (Switch power input) - GND (Switch power output) - GND (Work lamp)	20~25V

GND : Ground

WORK LAMP CIRCUIT



6. CAB LAMP CIRCUIT

1) OPERATING FLOW

Fuse box (No.16) → I/conn [CN-7(12)] → Switch panel [CN-116(16,17)]

When Lamp switch ON

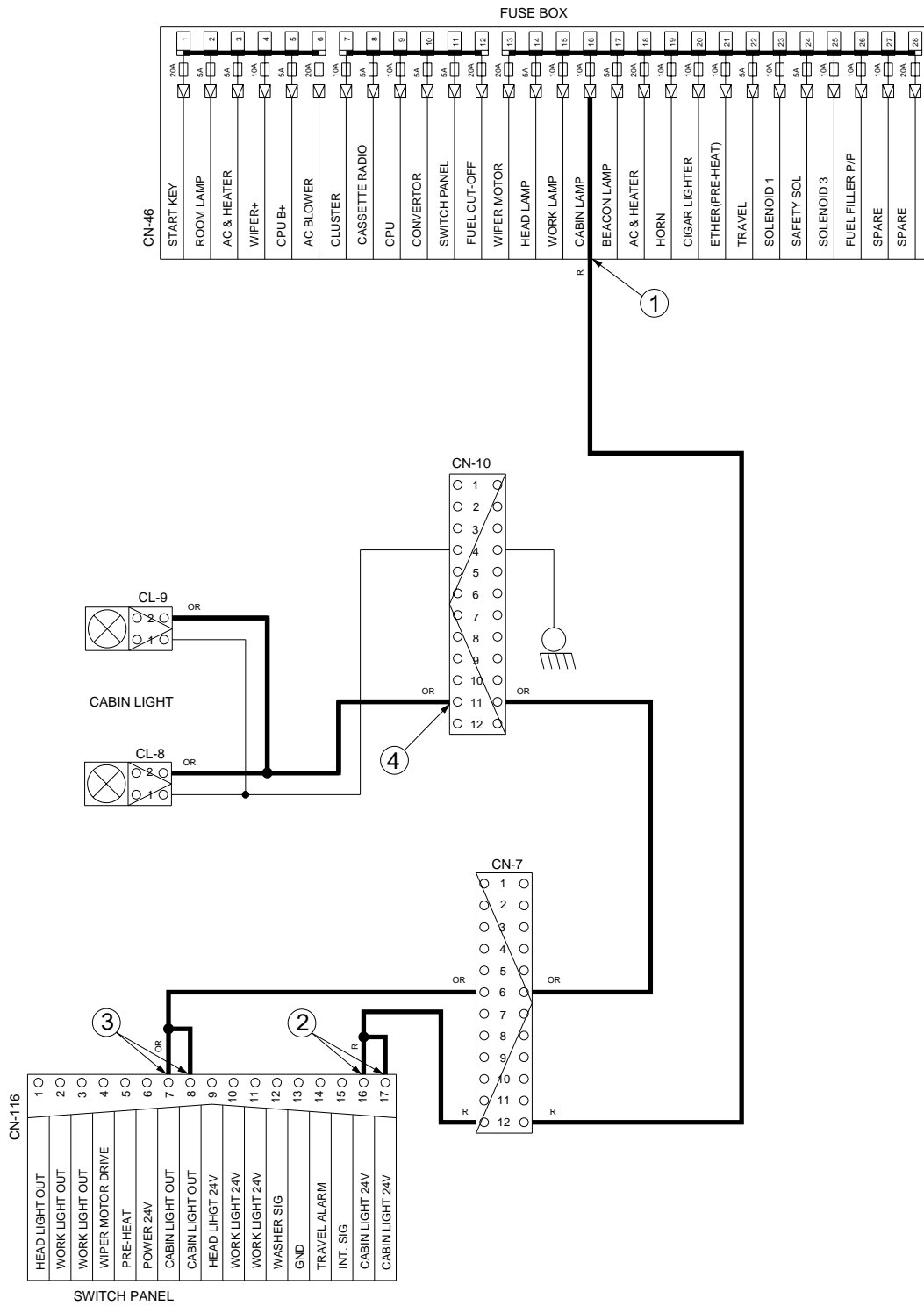
Lamp switch ON [CN-116(7, 8)] → I/conn [CN-7(6)] → I/conn [CN-10(11)] →
Cab light ON [CL-8(2), CL-9(2)]

2) CHECK POINT

Engine	Start switch	Check point	Voltage
STOP	ON	① - GND (Fuse box) ② - GND (Switch power input) ③ - GND (Switch power output) ④ - GND (Cab lamp)	20 ~ 25V

GND : Ground

CAB LAMP CIRCUIT



7. BEACON LAMP CIRCUIT

1) OPERATING FLOW

Fuse box (No.17) → I/conn [CN-8(3)] → Beacon lamp switch [CS-23(6)]

When lamp switch ON

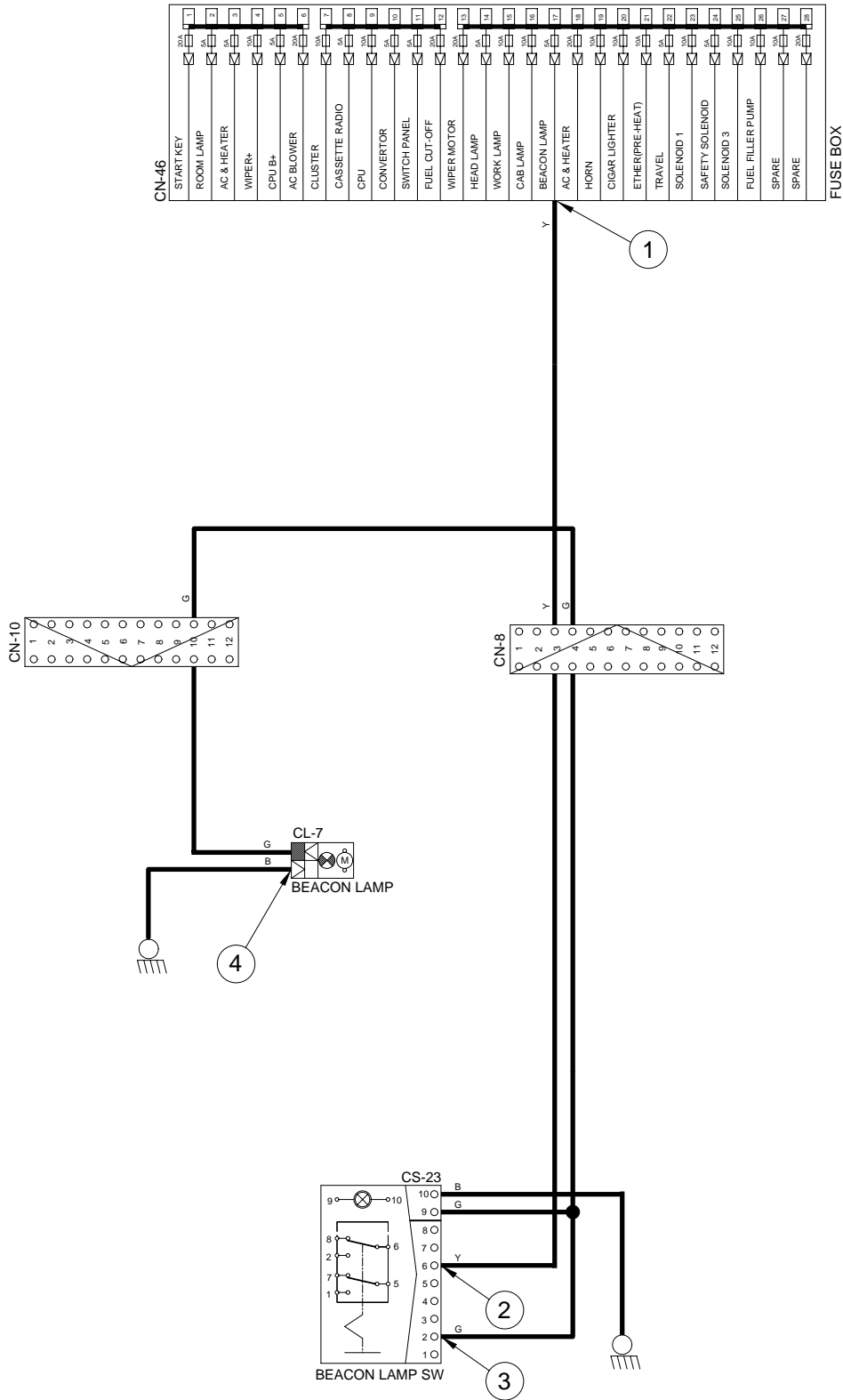
Beacon lamp switch ON [CS-23(2)] → Switch Indicator lamp ON [CS-23(9)]
Beacon lamp switch ON [CS-23(2)] → I/conn [CN-8(4)] → I/conn [CN-10(10)]
→ Beacon lamp ON [CL-7]

2) CHECK POINT

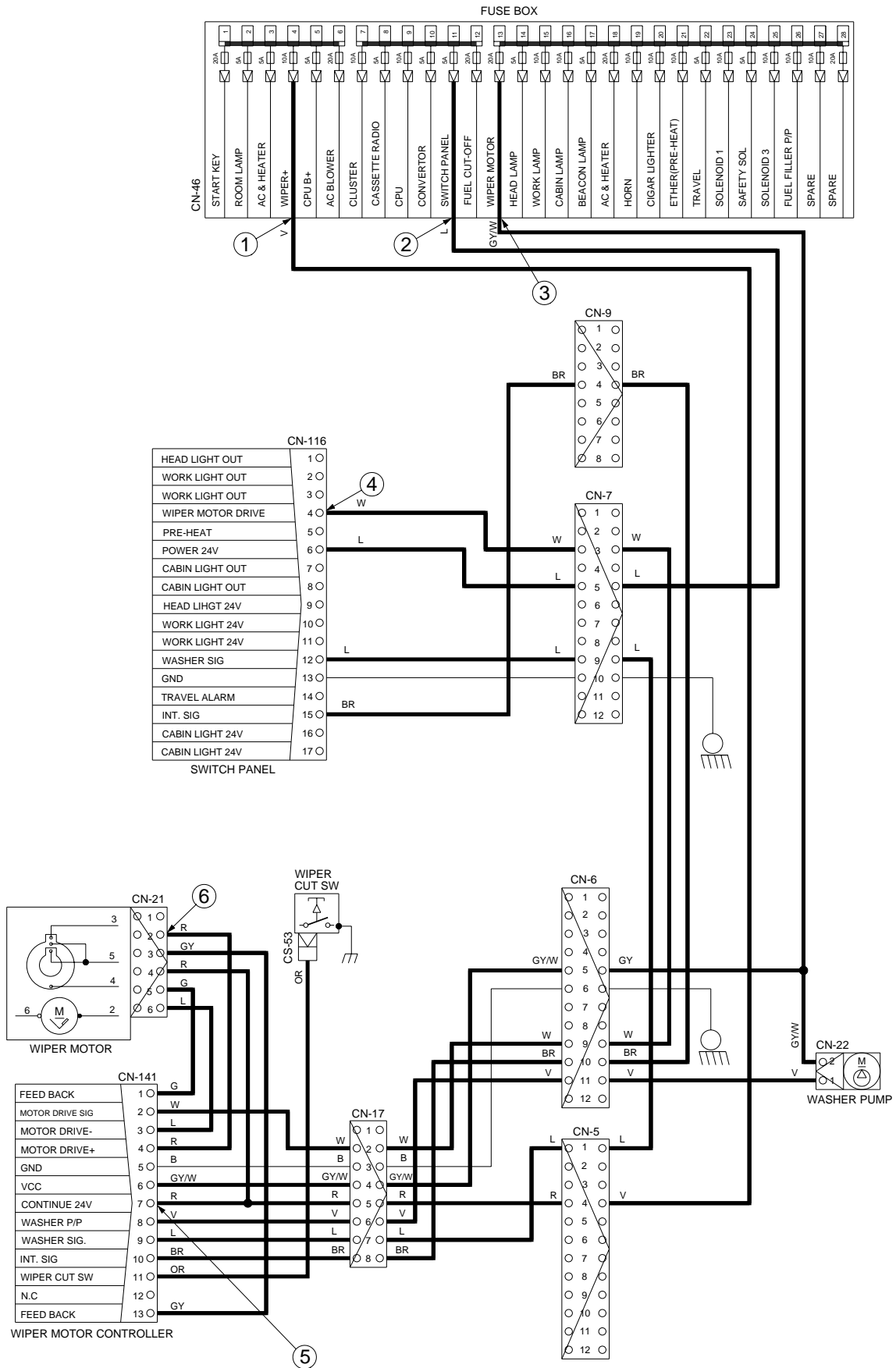
Engine	Start switch	Check point	Voltage
STOP	ON	- GND(Fuse box) - GND(Switch power input) - GND(Switch power output) - GND(Beacon lamp)	20~25V

GND : Ground

BEACON LAMP CIRCUIT

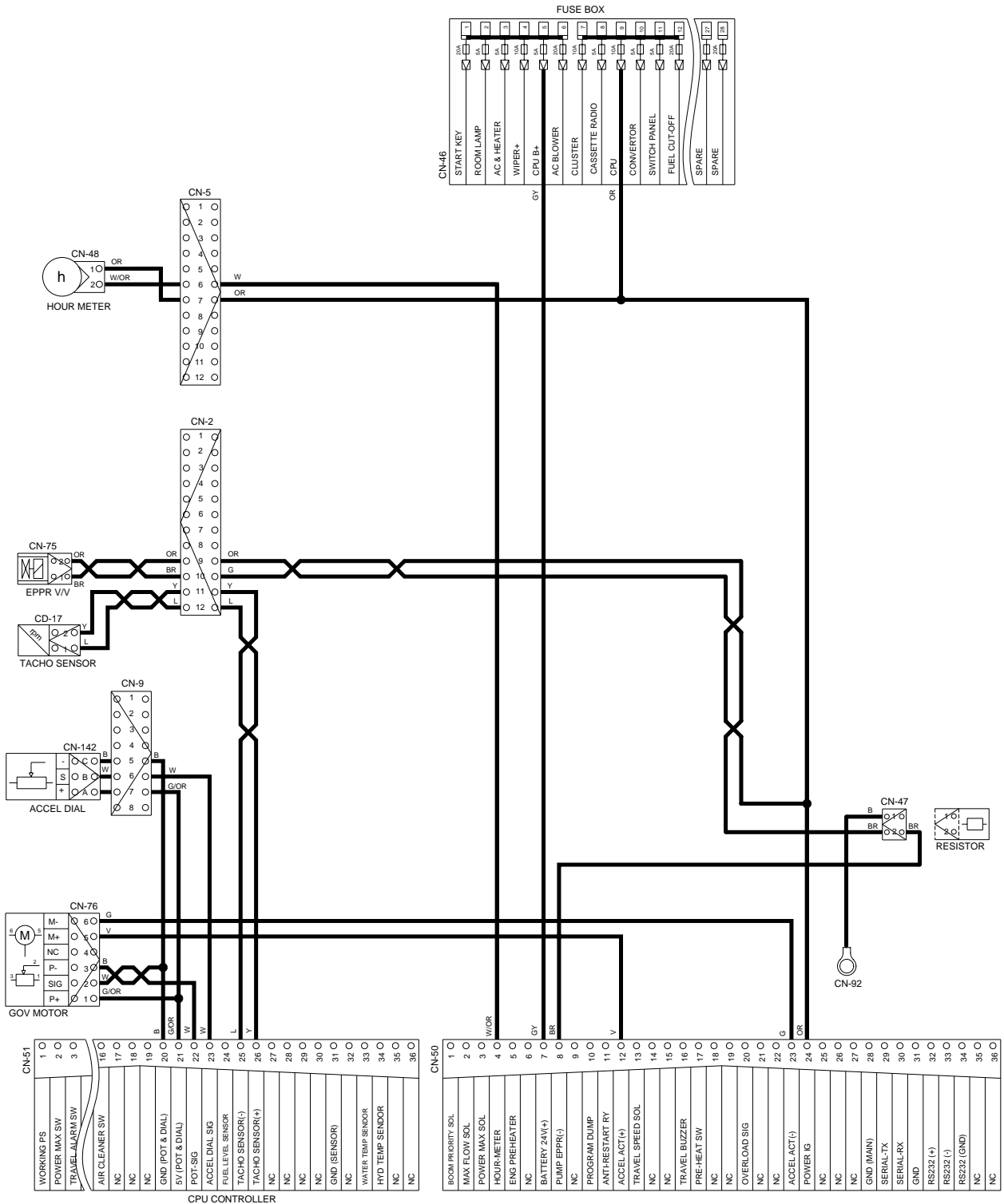


WASHER CONTROL CIRCUIT

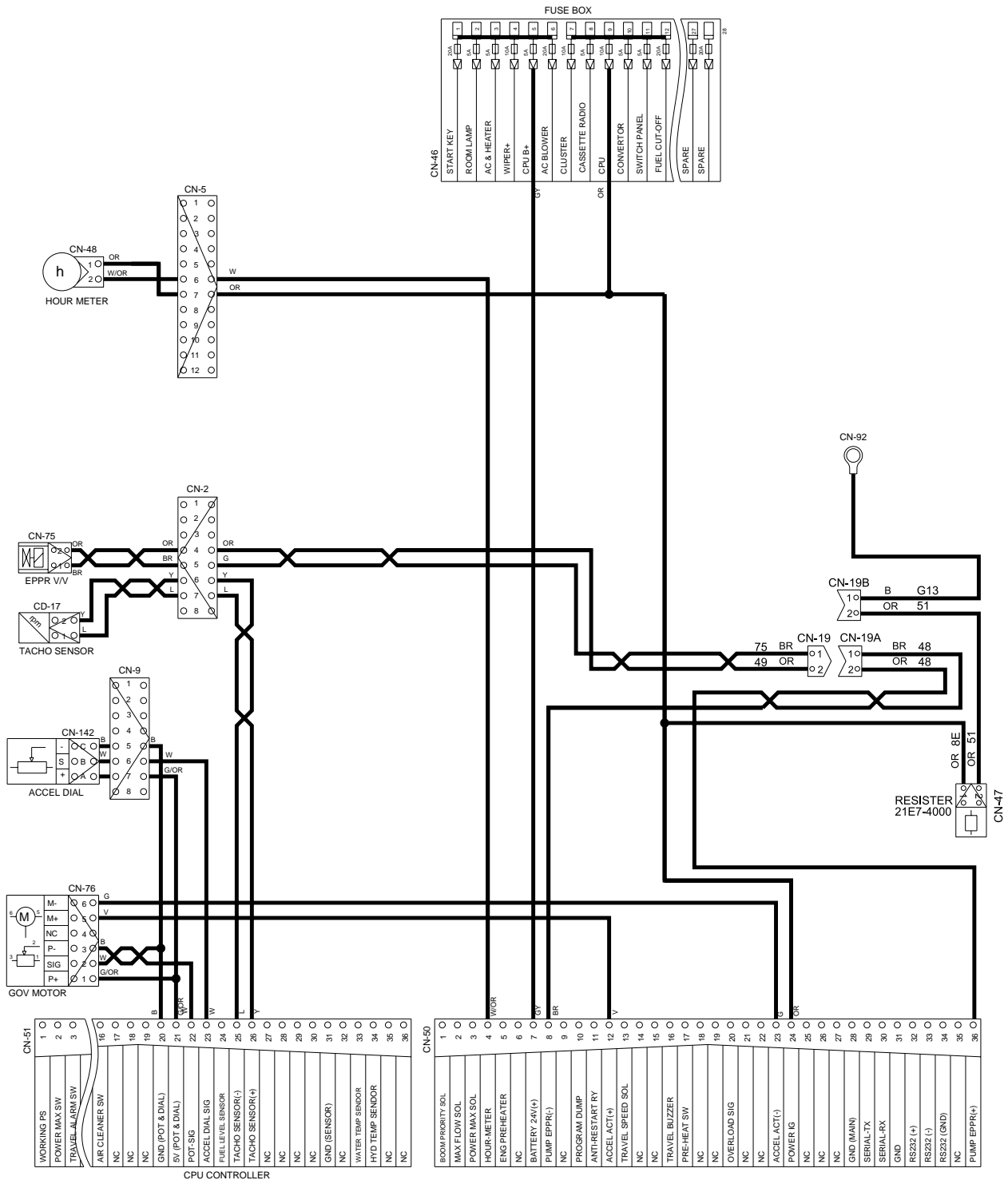


CONTROLLER CIRCUIT

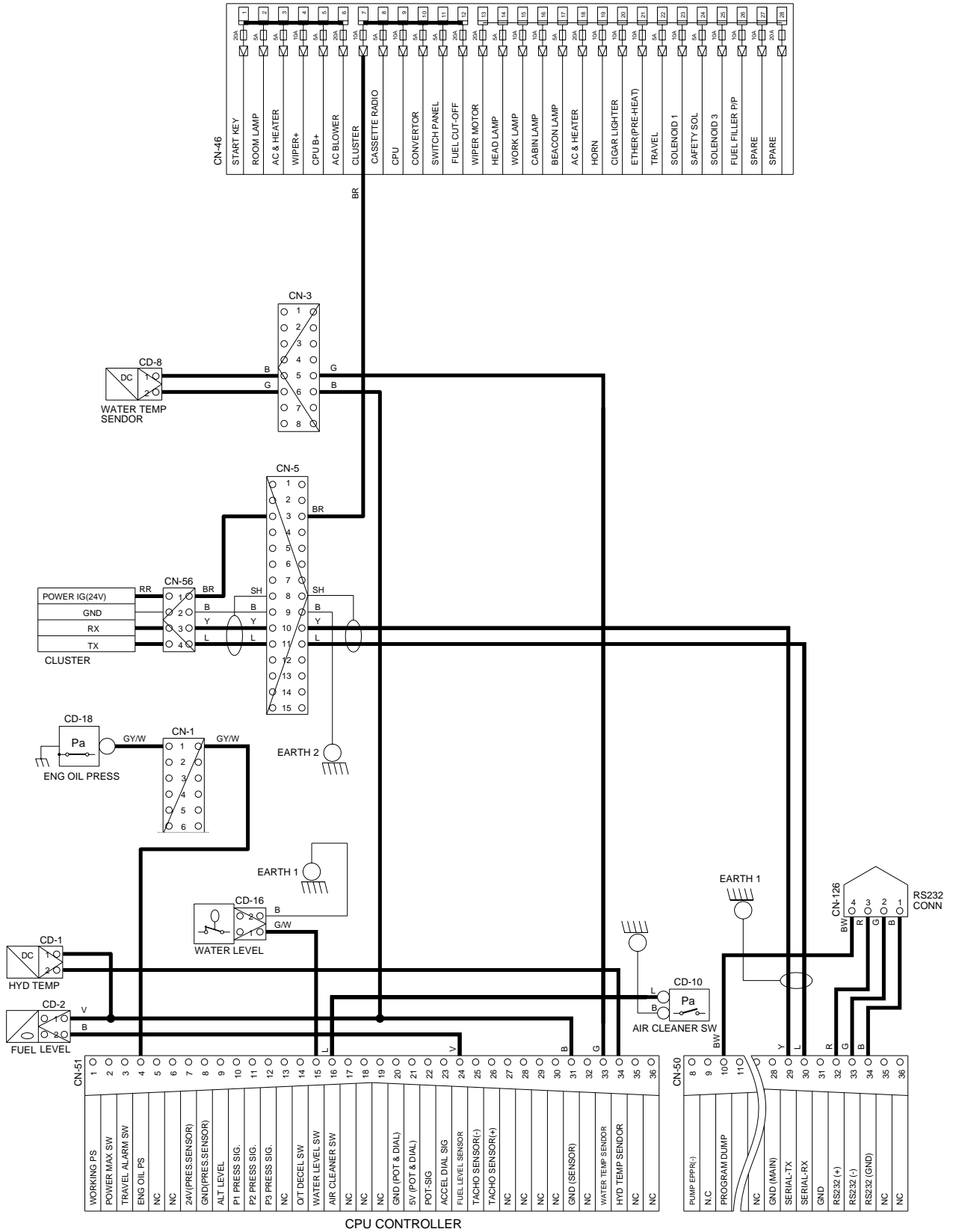
A. TIER I (UP TO #1000)



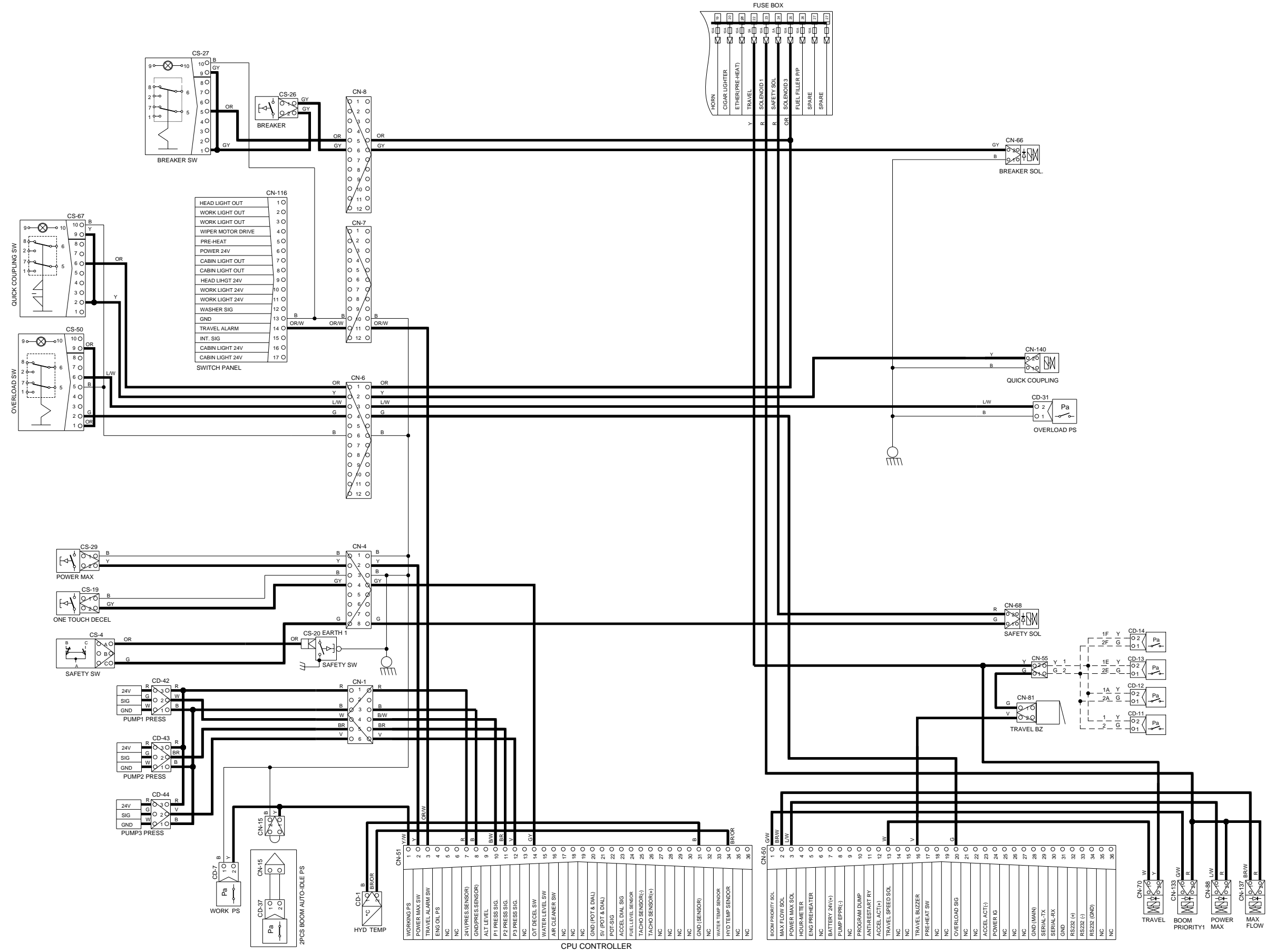
B. TIER II (#1001 AND UP)



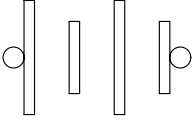
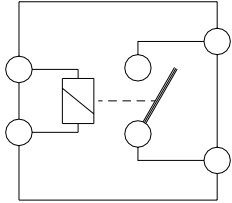
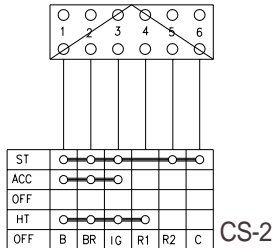
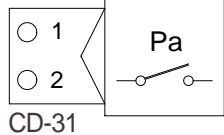
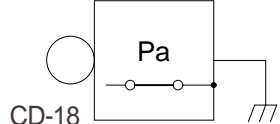
MONITORING CIRCUIT

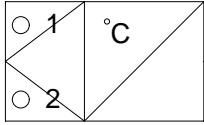
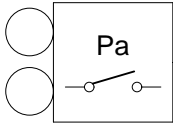
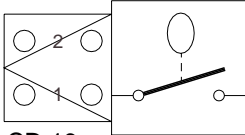
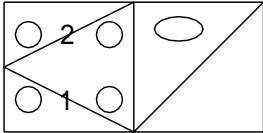
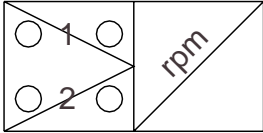
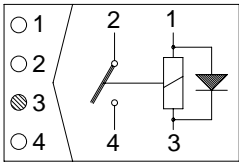


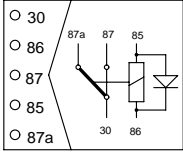
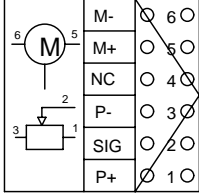
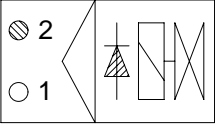
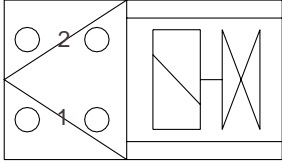
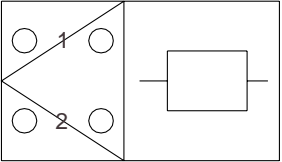
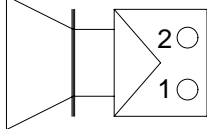
ELECTRIC CIRCUIT FOR HYDRAULIC

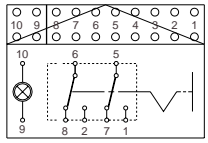
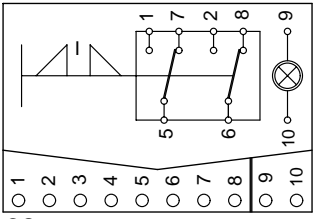
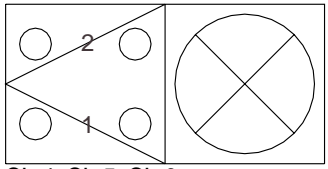
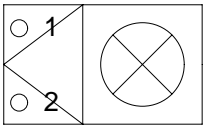
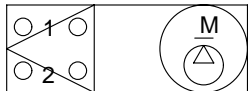
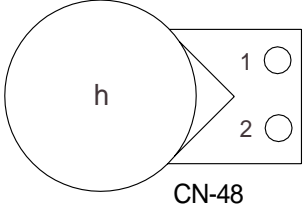


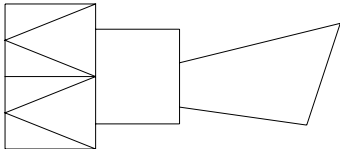
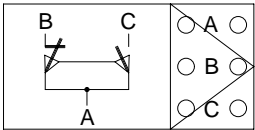
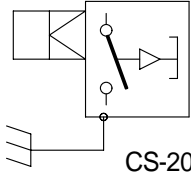
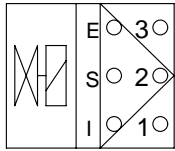
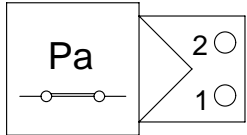
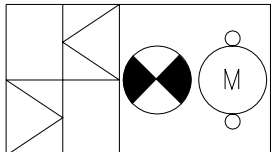
GROUP 3 ELECTRICAL COMPONENT SPECIFICATION

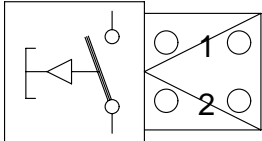
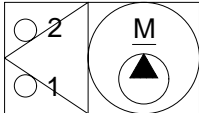
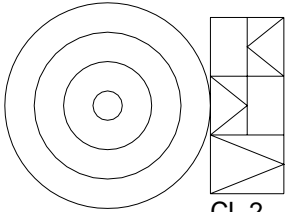
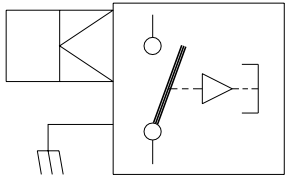
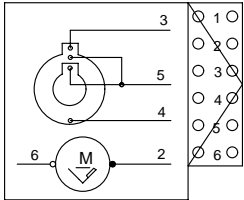
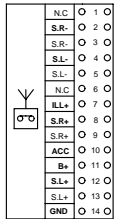
Part name	Symbol	Specification	Check
Battery		12V × 100Ah (2EA)	Check specific gravity 1.280 over : Over charged 1.280 ~ 1.250 : Normal 1.250 below : Recharging
Battery relay	 <p style="text-align: center;">CR-1</p>	Rated load : 24V 100A(continuity) 1000A(30second)	Check coil resistance (M4 to M4) Normal : About 50 Check contact Normal :
Start key	 <p style="text-align: center;">CS-2</p>	24V 40A	Check contact OFF : (For each terminal) ON : 0 (For terminal 1-3 and 1-2) START : 0 (For terminal 1-5)
Pressure switch (For overload)	 <p style="text-align: center;">CD-31</p>	3 ~ 6 kgf/cm ² (N.O TYPE)	Check contact Normal : (OPEN)
Pressure switch (For engine oil)	 <p style="text-align: center;">CD-18</p>	0.5 kgf/cm ² (N.C TYPE)	Check resistance Normal : 0 (CLOSE)

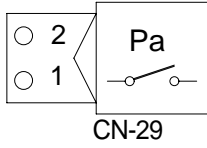
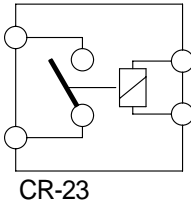
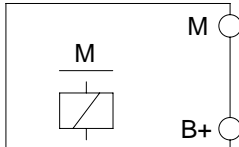
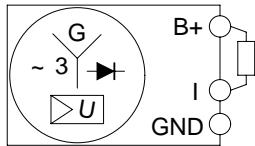
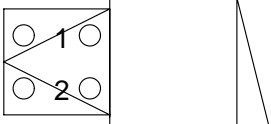
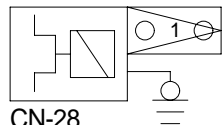
Part name	Symbol	Specification	Check
Temperature sensor	 <p>CD-1, CD-8</p>	-	Check resistance 50°C : 804 80°C : 310 100°C : 180
Air cleaner pressure switch	 <p>CD-10</p>	Pressure: 635mmH ₂ O (N.O TYPE)	Check contact Normal :
Coolant level sensor	 <p>CD-16</p>	24V 0.5A	Check contact High level : Low level : 0
Fuel sender	 <p>CD-2</p>	-	Check resistance Full : 50 6/12 : 350 Ω 11/12 : 100 5/12 : 400 10/12 : 150 4/12 : 450 9/12 : 200 3/12 : 500 8/12 : 250 2/12 : 550 7/12 : 300 1/12 : 600 Empty warning : 700
Tacho sensor	 <p>CD-17</p>	-	Check resistance Normal : 300 (For terminal 1,2)
Relay		24V 20A	Check resistance Normal : About 200 (For terminal 1-3) : 0 (For terminal 2-4)

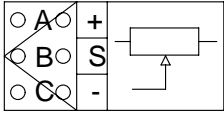
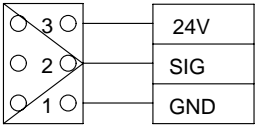
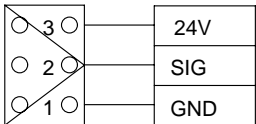
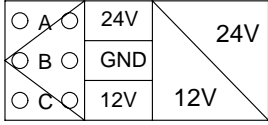
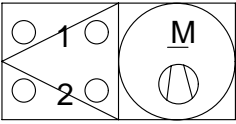
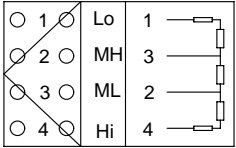
Part name	Symbol	Specification	Check
Relay	 <p>CR-2 CR-35 CR-5 CR-36 CR-7</p>	24V 16A	<p>Check resistance Normal : About 160 (For terminal 85-86) : 0 (For terminal 30-87a) : (For terminal 30-87)</p>
Accel actuator	 <p>CN-76</p>	-	<p>Check resistance Normal : 1-2 (For terminal 5-6) 0.8-1.2k (For terminal 1-3)</p>
Solenoid valve	 <p>CN-66 CN-68 CN-70 CN-88 CN-133 CN-137 CN-140</p>	24V 1A	<p>Check resistance Normal : 15~25 (For terminal 1-2)</p>
EPPR valve	 <p>CN-75</p>	700mA	<p>Check resistance Normal : 18~25 (For terminal 1-2)</p>
Prolix resistor	 <p>CN-47</p>	50 20W ± 5%	<p>Check resistance Normal : 50</p>
Speaker	 <p>CN-23(LH) CN-24(RH)</p>	4 20W	<p>Check resistance Normal : 4</p>

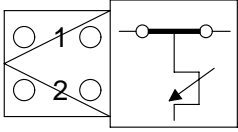
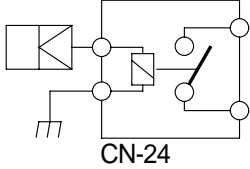
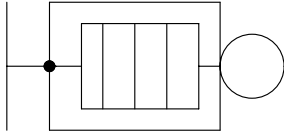
Part name	Symbol	Specification	Check
Switch (Looking type)	 <p>CS-23, CS-27, CS-50, CS-52, CS-54</p>	24V 8A	Check contact Normal ON - 0 (For terminal 1-5,2-6) - (For terminal 5-7,6-8) OFF - (For terminal 1-5,2-6) - 0 (For terminal 5-7,6-8)
Switch	 <p>CS-67</p>	24V 8A	Check contact Normal ON - 0 (For terminal 1-5,2-6) - (For terminal 5-7,6-8) OFF - (For terminal 1-5,2-6) - 0 (For terminal 5-7,6-8)
Lamp	 <p>CL-4, CL-5, CL-6, CL-8, CL-9</p>	24V 70W (H3 TYPE)	Check disconnection Normal : 1.2
Room lamp	 <p>CL-1</p>	24V 10W	Check disconnection Normal : A few
Fuel filler pump	 <p>CN-61</p>	24V 10A 35 /min	Check resistance Normal : 1.0
Hour meter	 <p>CN-48</p>	16V ~ 32V	Check operation · Supply power(24V) to terminal No. 2 and connect terminal No. 1 and ground.

Part name	Symbol	Specification	Check
Horn	 <p>CN-20 CN-25</p>	DC 22.0 ~ 28.0V 2A	Check operation · Supply power(24V) to each terminal and connect ground.
Safety switch 1	 <p>CS-4</p>	24V 15A (N.C TYPE)	Check contact Normal : 0 (For terminal A-B) : (For terminal A-C) Operating : (For terminal A-B) : 0 (For terminal A-C)
Safety switch 2	 <p>CS-20</p>	24V (N.C TYPE)	Check contact Normal : 0 (one pin to ground)
Fuel cut-off	 <p>CN-79</p>	24V	Check resistance Normal : 15~25
Pressure switch	 <p>CD-7</p>	10bar (N.C type)	Check contact Normal : 0.1
Beacon lamp	 <p>CL-7</p>	24V 70W	Check disconnection Normal : 1.1

Part name	Symbol	Specification	Check
Switch (Power max, One touch decal, Breaker, Horn)	 CS-5 CS-19 CS-26 CS-29	24V 6A	Check contact Normal :
Washer pump	 CN-22	24V 3.8A	Check contact Normal : 10.7 (For terminal 1-2)
Cigar lighter	 CL-2	24V 5A 1.4W	Check coil resistance Normal : About 1M Check contact Normal : Operating time : 5~15sec
Switch	 CS-1, CS-20, CS-53	24V 2W	Check resistance Normal : About 5M
Wiper motor	 CN-21	24V 2A	Check contact Normal : 7 (For terminal 2-6)
Cassette radio	 CN-27	24V 2A	Check voltage 20 ~ 25V (For terminal 10-14,11-14)

Part name	Symbol	Specification	Check
Receiver dryer	 <p>CN-29</p>	24V 2.5A	Check contact Normal : 0
Start relay	 <p>CR-23</p>	24V 300A	Check contact Normal : 0.94 (For terminal 1-2)
Starter	 <p>CN-45</p>	Delco Remy 28MT 24V	Check contact Normal : 0.1
Alternator	 <p>CN-74</p>	24V 60A	Check contact Normal : 0 (For terminal B -1) Normal : 24 ~ 27.5V
Travel alarm	 <p>CN-81</p>	24V 0.5A	Check contact Normal : 5.2
Compressor	 <p>CN-28</p>	24V 79W	Check contact Normal : 13.4

Part name	Symbol	Specification	Check
Accel dial	 CN-142	-	Check resistance Normal : About 5K (For terminal A-C) Check valtage Normal : About 5V (For terminal A-C) : 2 ~ 4.5V (For terminal C-B)
Transducer	 CD-42, CD-43	500 bar	0bar : 1V(For terminal 1-2) 500bar : 5V(For terminal 1-2)
Transducer	 CD-44	50 bar	0bar : 1V(For terminal 1-2) 50bar : 5V(For terminal 1-2)
DC/DC Converter	 CN-138	12V 3A	24V(A-B) 12V(B-C)
Blower motor		24V 9.5A	Check resistance 2.5 (For terminal 1-2)
Resistor		-	Check resistance 1.12 (For terminal 4-2) 2.07 (For terminal 2-3) 3.17 (For terminal 3-1)

Part name	Symbol	Specification	Check
Duct sensor (Switch)		1.C OFF 4.C ON	Check resistance : 0 (For terminal 1-2, the atmosphere temp : over 4.C)
Preheater relay		24V 200A	Check contact Normal : 0.94 (For terminal 1-GND)
Preheater		24V 200A	check resistance : 0.25 ~ 0.12

GROUP 4 CONNECTORS

1. CONNECTOR DESTINATION

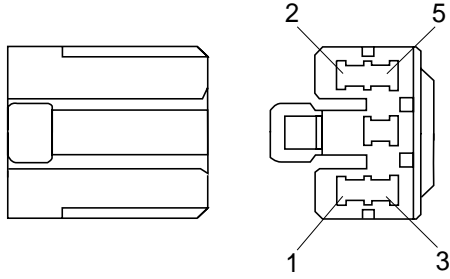
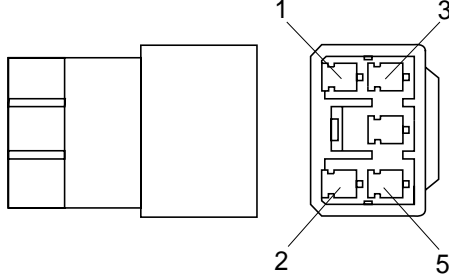
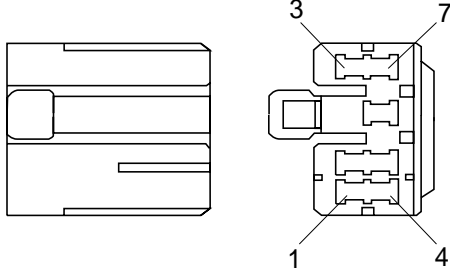
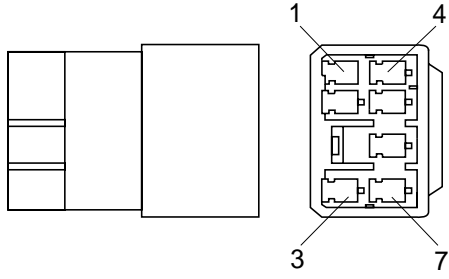
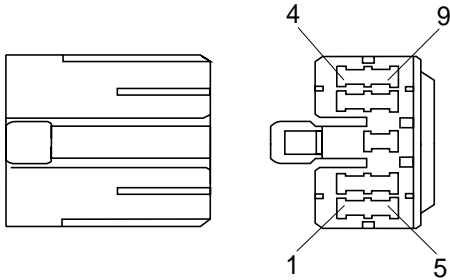
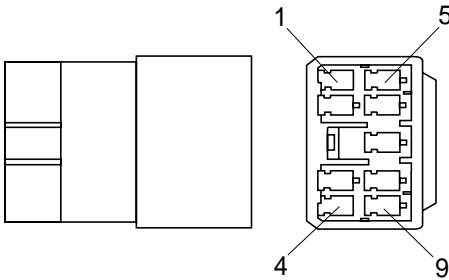
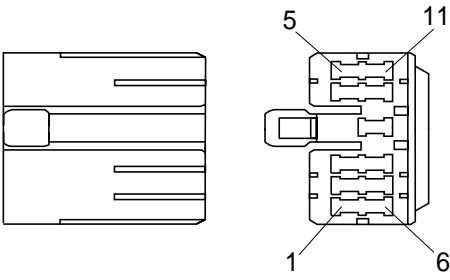
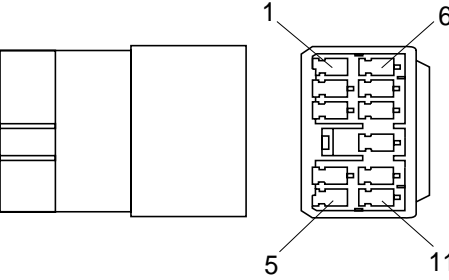
Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	-	6	Pump pressure harness	S816-006002	S816-106002
CN-2	AMP	12	Engine rear harness	S816-012002	S816-112002
CN-3	AMP	8	Engine front harness	S816-008002	S816-108002
CN-4	AMP	8	Cabin LH wire harness	S816-008002	S816-108002
CN-5	-	15	RH side harness	-	2-85262-1
CN-6	AMP	12	RH side harness	S816-012002	S816-112002
CN-7	-	15	Cabin RH wire harness	-	2-85262-1
CN-8	AMP	12	Cabin RH wire harness	S816-012002	S816-112002
CN-9	AMP	8	Cabin RH wire harness	S816-008002	S816-108002
CN-10	DEUTSCH	12	Frame harness	DT06-12S	DT06-12P
CN-11	DEUTSCH	8	Cabin LH wire harness	DT06-8S	-
CN-12	DEUTSCH	2	Work lamp harness	DT06-2S-P012	DT04-2P-P012
CN-13	DEUTSCH	2	Quick coupling harness	DT06-2S-P012	DT04-2P-P012
CN-15	KET	2	Auto idle PS	S814-002100	S814-102100
CN-17	DEUTSCH	8	Wipe harness	DT06-8S	DT04-8P
CN-20	MOLEX	2	Horn	35215-0200	-
CN-21	AMP	6	Wiper motor	925276-0	-
CN-22	-	2	Washer tank	MG640605	-
CN-23	KET	2	LH speaker	MG610070	7322-1520
CN-24	KET	2	RH speaker	MG610070	7322-1520
CN-25	MOLEX	2	Horn	35215-0200	-
CN-27	AMP	14	Cassette radio	173852	AMP14P
CN-28	-	1	Air-con comp	MWP-01F-B	-
CN-29	KET	2	Receiver dryer	MG640795	-
CN-45	RING TERM	1	Starter	S820-510000	-
CN-47	AMP	2	Emergency resistor	S810-002202	-
CN-48	-	2	Hour meter	S810-002202	-
CN-50	AMP	36	CPU	3441110	-
CN-51	AMP	36	CPU	3441110	-
CN-56	DEUTSCH	4	Cluster	-	DT04-4P
CN-60	-	2	Fusible link	7122-4125-50	-
CN-61	DEUTSCH	2	Fuel filler pump	DT06-2S-P012	DT01-2P-P012
CN-66	DEUTSCH	2	Breaker solenoid valve	DT06-2S-P012	DT01-2P-P012
CN-68	DEUTSCH	2	Safety solenoid valve	DT06-2S-P012	-
CN-70	DEUTSCH	2	Travel speed solenoid valve	DT06-2S-P012	-
CN-74	RING TERM	1	Alternator	S820-105000	-
CN-75	-	2	EPPR valve	S816-002002	-
CN-76	DEUTSCH	6	Accel actuator	DT06-6S	-

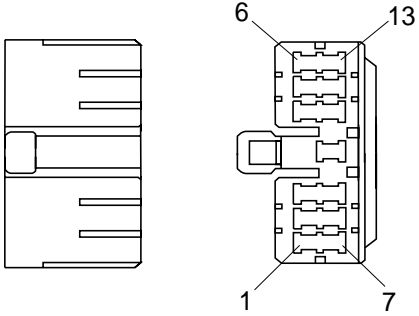
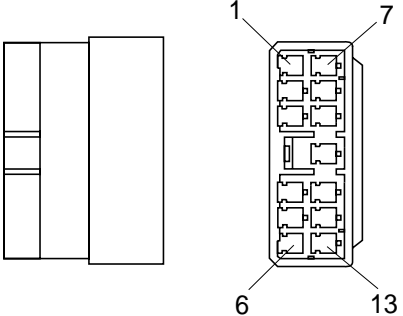
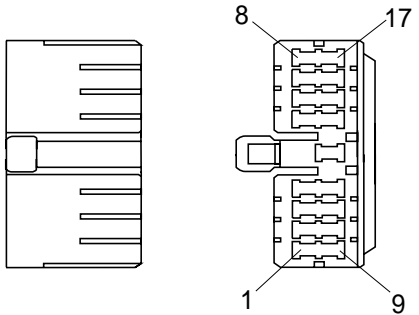
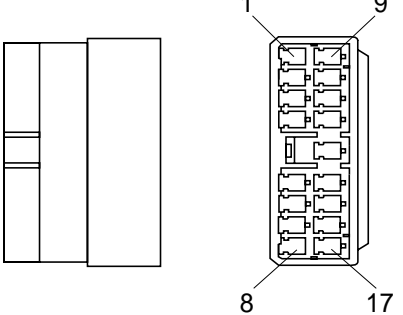
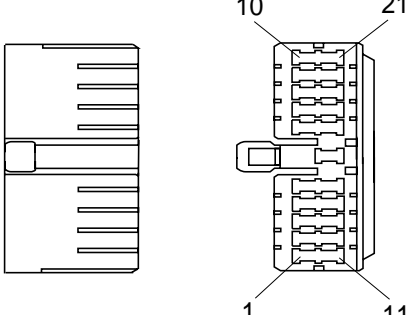
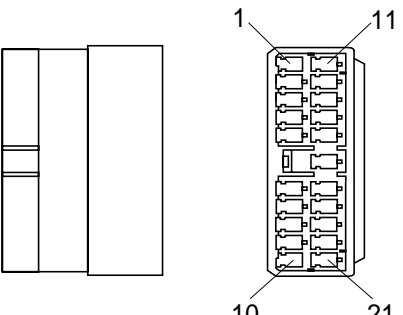
Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-78	KET	2	Water level	S814-022100	-
CN-79	-	3	Fuel cut-off	S818-020311	-
CN-81	DEUTSCH	2	Travel buzzer	DT06-2S-P012	DP04-2P-P012
CN-88	DEUTSCH	2	Power max solenoid valve	DT06-2S-P012	-
CN-91	DEUTSCH	2	Over load harness	DT06-2S	DT04-2P
CN-92	AMP	1	Safety	S814-101100	S814-001100
CN-116	-	17	Switch panel	S811-017002	-
CN-126	DEUTSCH	4	RS232C connector	DT06-4S	DT04-4P-E004
CN-133	DEUTSCH	2	Boom priority solenoid valve	DT06-2S-P012	-
CN-137	DEUTSCH	2	Max flow solenoid valve	DT06-2S-P012	-
CN-138	DEUTSCH	3	DC/DC converter	DT06-3S	DT04-3P
CN-139	DEUTSCH	2	12V Socket	-	DT04-2P
CN-141	AMP	13	Wiper motor control unit	172498-1	-
CN-142	DEUTSCH	3	Accel dial	DT06-3S	-
CN-143	KET	14	Cassette radio	MG610406	-
CN-144	AMP	12	Remocon	174045-2	-
RELAY					
CR-1	RING TERM	1	Battery relay	S820-104002	-
CR-23	-	2	Start relay	S814-102001	-
CR-24	-	1	Pre-heater relay	S822-014000	-
SWITCH					
CS-1	CB104	1	Door switch	S822-014004	-
CS-2	-	6	Start key switch	S814-006000	-
CS-4	DEUTSCH	3	Safety switch	DT06-3S	-
CS-5	DEUTSCH	2	Horn switch		DT04-2P
CS-19	DEUTSCH	2	One touch decel	DT06-2S	DT04-2P
CS-20	AMP	1	Safety switch	S822-014002	-
CS-23	SWF	10	Beacon lamp switch	SWF593757	-
CS-26	DEUTSCH	2	Breaker switch	DT06-2S	-
CS-27	SWF	10	Breaker switch	SWF593757	-
CS-29	DEUTSCH	2	Power max	DT06-2S	DT04-2P
CS-50	SWF	10	Quick coupling switch	SWF593757	-
CS-52	SWF	10	Spare switch	SWF593757	-
CS-53	AMP	1	Wiper cut switch	S822-014002	-
CS-54	SWF	10	Spare switch	SWF593757	-
CS-67	SWF	10	Overload switch	SWF593757	-
LAMP					
CL-1	KET	2	Cabin room lamp	MG610392	-
CL-2	-	1	Cigar light	S822-014002	-
CL-4	DEUTSCH	2	Head lamp	-	DT04-2P-P012
CL-5	DEUTSCH	2	Work lamp-LH	-	DT04-2P

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CL-6	DEUTSCH	2	Work lamp-RH	-	DT04-2P
CL-7	CB104	1	Beacon lamp	S822-014004	-
CL-8	DEUTSCH	2	LH cabin light	-	DT04-2P
CL-9	DEUTSCH	2	RH cabin light	-	DT04-2P
SENDER					
CD-1	AMP	2	Hydraulic Temp sender	85202-1	-
CD-2	DEUTSCH	2	Fuel sender	DT06-2S-P012	-
CD-6	KET	3	Travel pressure switch	MG640795	-
CD-7	KET	2	Working pressure switch	MG640795	-
CD-8	-	2	Water temp sender	85202-1	-
CD-10	RING TERM	1	Air cleaner switch	S820-104002	-
CD-17	-	2	Tacho sensor	-	S818-120221
CD-18	RING TERM	1	Engine oil pressure switch	S820-104000	-
CD-31	DEUTSCH	2	Overload pressure switch	DT06-2S-P012	-
CD-42	AMP	3	Pump 1 pressure switch	S816-003002	-
CD-43	AMP	3	Pump 2 pressure switch	S816-003002	-
CD-44	AMP	3	Pump 3 pressure switch	S816-003002	-

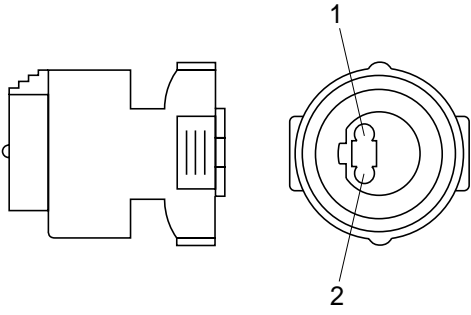
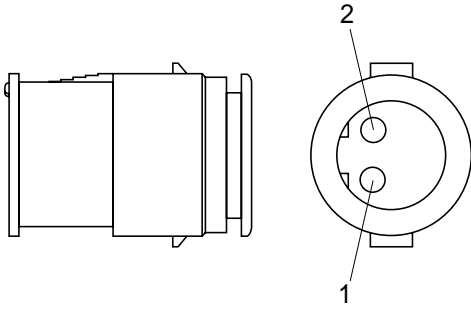
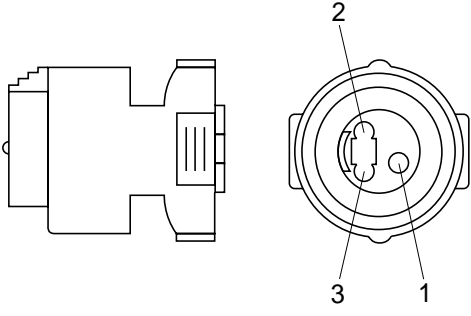
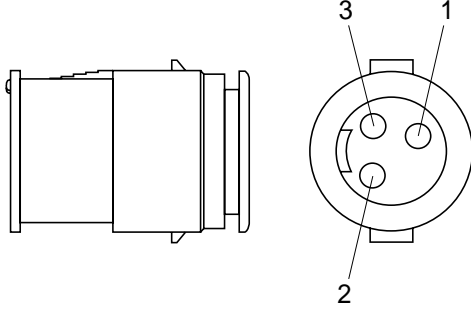
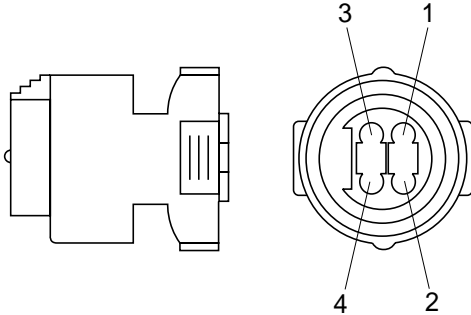
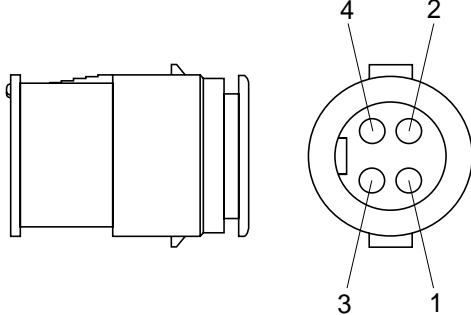
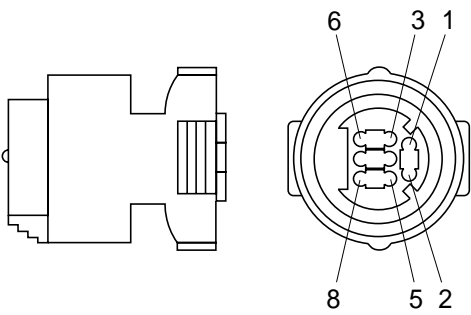
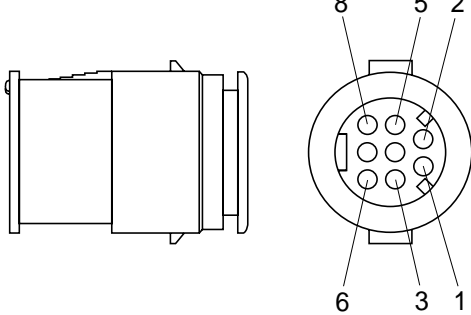
2. CONNECTION TABLE FOR CONNECTORS

1) PA TYPE CONNECTOR

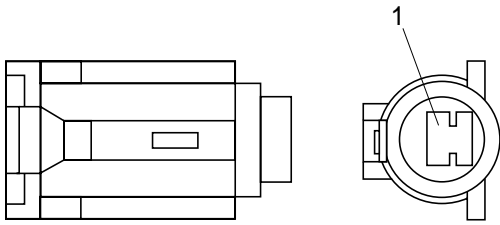
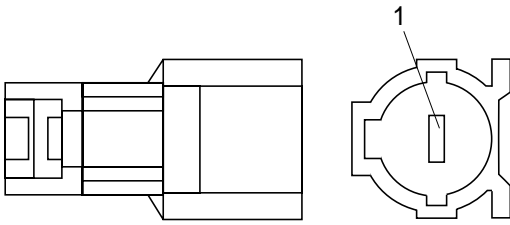
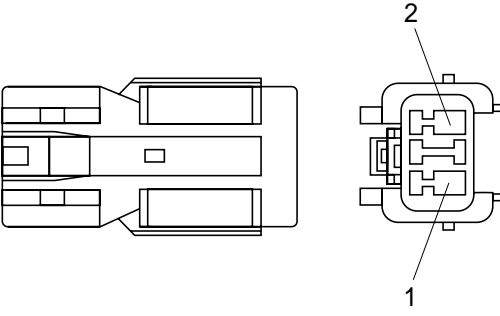
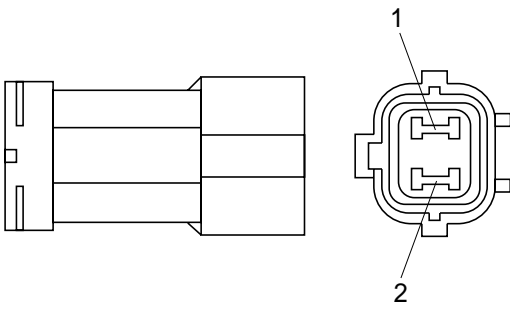
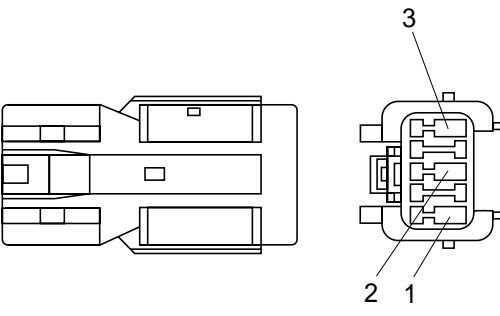
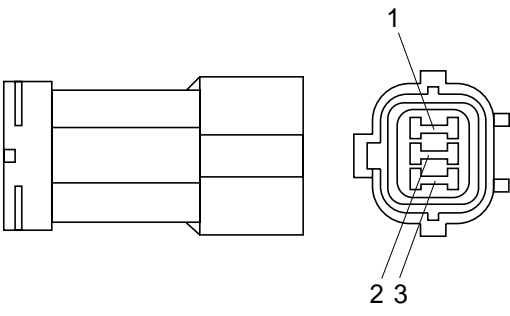
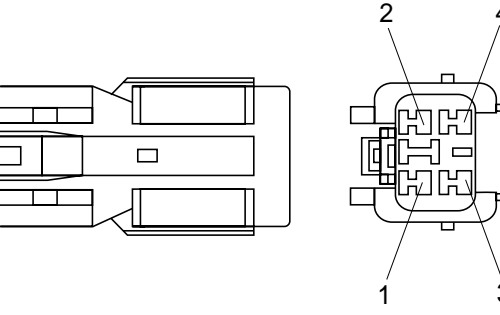
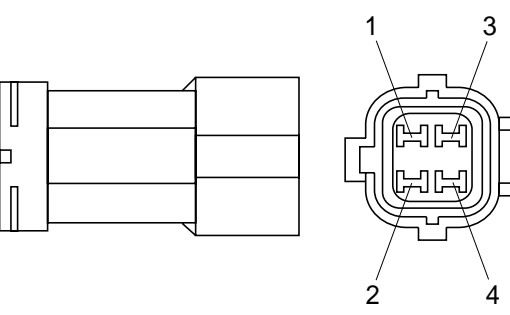
No. of pin	Receptacle connector(Female)	Plug connector(Male)
5	 <p style="text-align: center;">S811-005002</p>	 <p style="text-align: center;">S811-105002</p>
7	 <p style="text-align: center;">S811-007002</p>	 <p style="text-align: center;">S811-107002</p>
9	 <p style="text-align: center;">S811-009002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

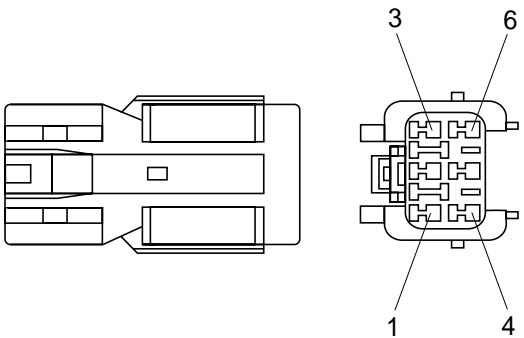
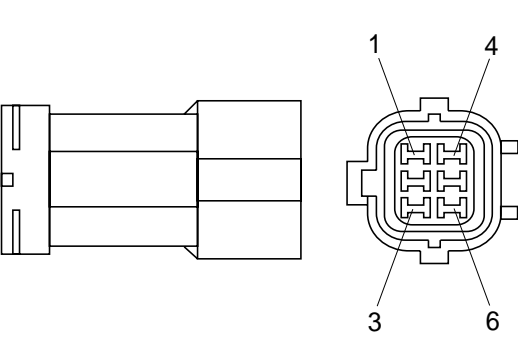
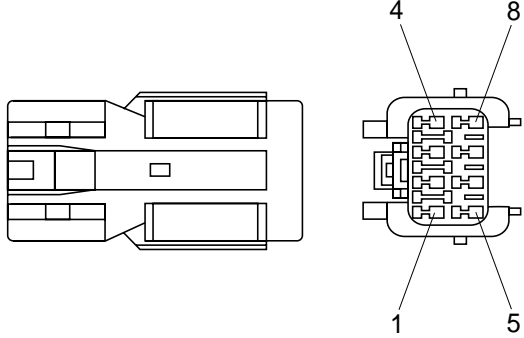
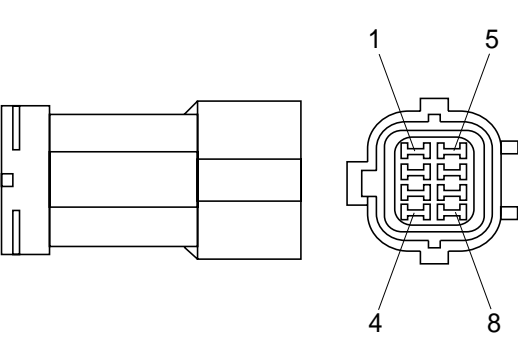
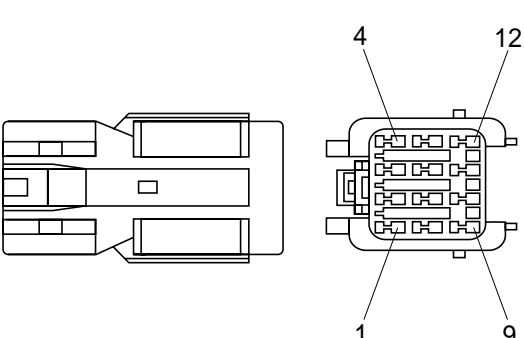
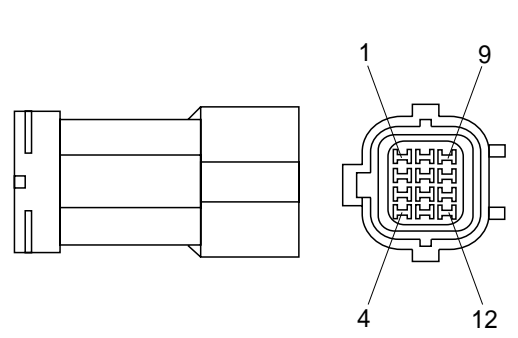
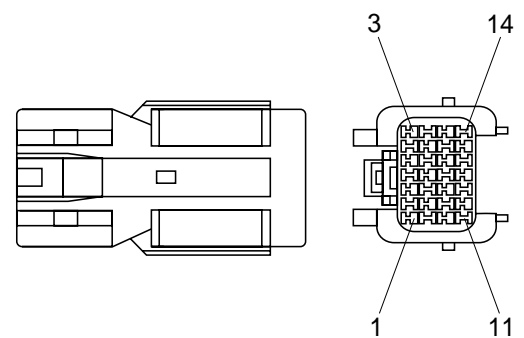
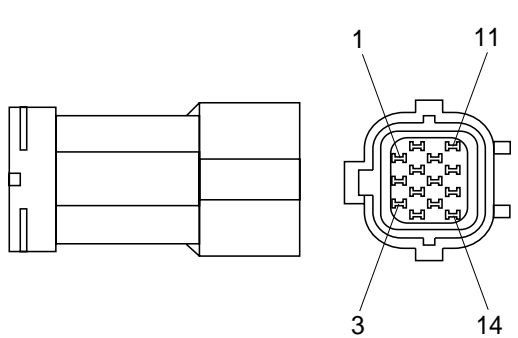
No. of pin	Receptacle connector(Female)	Plug connector(Male)
13	 <p style="text-align: center;">S811-013002</p>	 <p style="text-align: center;">S811-113002</p>
17	 <p style="text-align: center;">S811-017002</p>	 <p style="text-align: center;">S811-117002</p>
21	 <p style="text-align: center;">S811-021002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

2) J TYPE CONNECTOR

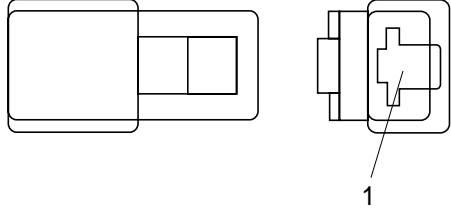
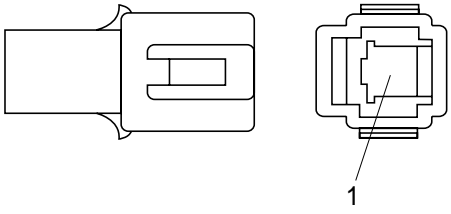
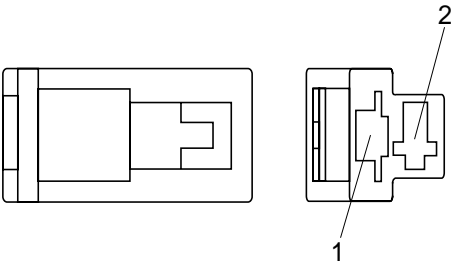
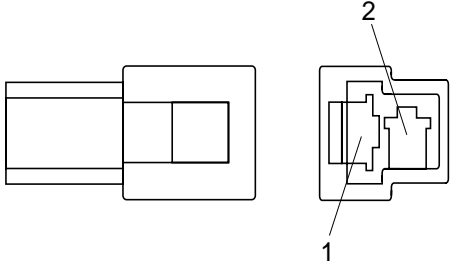
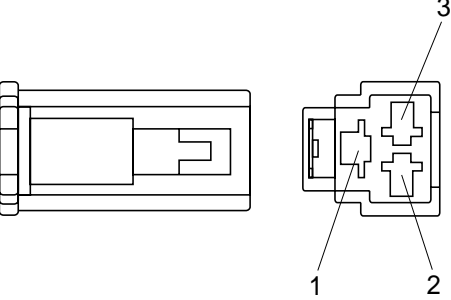
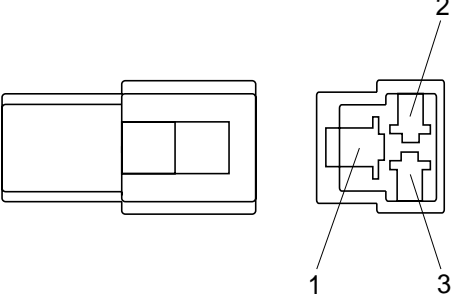
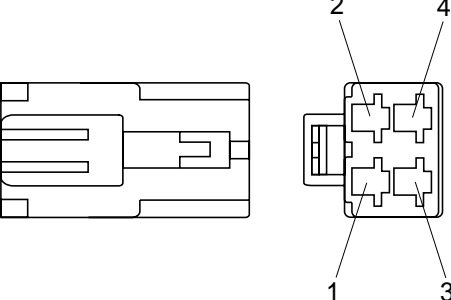
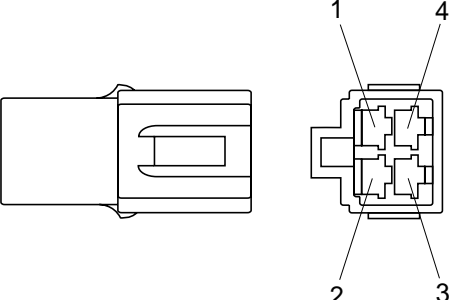
No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 <p style="text-align: center;">S816-002001</p>	 <p style="text-align: center;">S816-102001</p>
3	 <p style="text-align: center;">S816-003001</p>	 <p style="text-align: center;">S816-103001</p>
4	 <p style="text-align: center;">S816-004001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

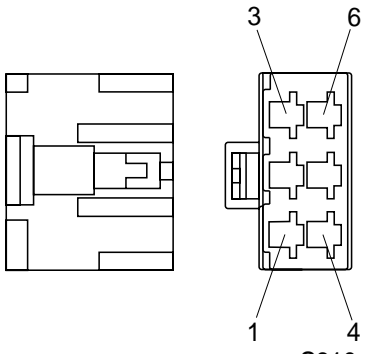
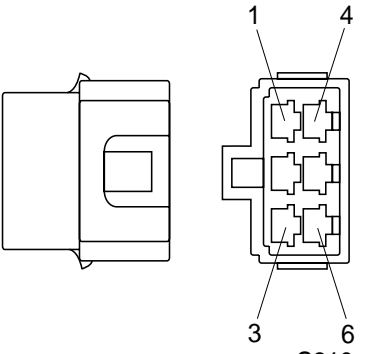
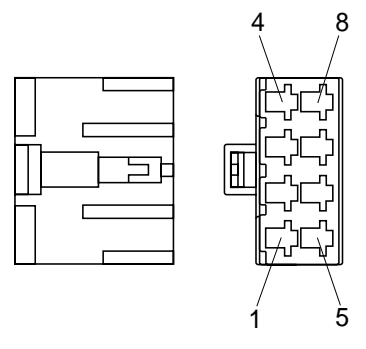
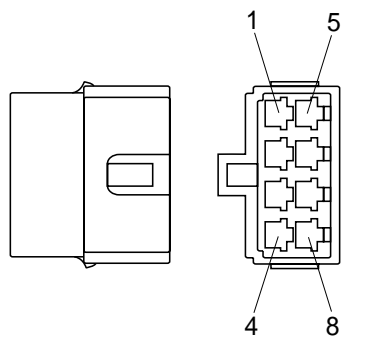
3) SWP TYPE CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
1	 <p data-bbox="686 672 837 705">S814-001000</p>	 <p data-bbox="1236 672 1388 705">S814-101000</p>
2	 <p data-bbox="686 1075 837 1108">S814-002000</p>	 <p data-bbox="1236 1075 1388 1108">S814-102000</p>
3	 <p data-bbox="686 1478 837 1512">S814-003000</p>	 <p data-bbox="1236 1478 1388 1512">S814-103000</p>
4	 <p data-bbox="686 1881 837 1915">S814-004000</p>	 <p data-bbox="1236 1881 1388 1915">S814-104000</p>

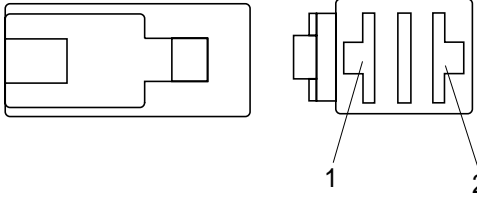
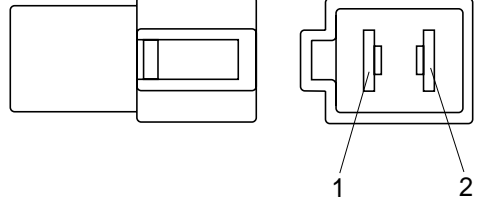
No. of pin	Receptacle connector(Female)	Plug connector(Male)
6	 <p data-bbox="686 627 837 660">S814-006000</p>	 <p data-bbox="1244 627 1396 660">S814-106000</p>
8	 <p data-bbox="686 1041 837 1075">S814-008000</p>	 <p data-bbox="1244 1041 1396 1075">S814-108000</p>
12	 <p data-bbox="686 1444 837 1478">S814-012000</p>	 <p data-bbox="1244 1444 1396 1478">S814-112000</p>
14	 <p data-bbox="686 1848 837 1881">S814-014000</p>	 <p data-bbox="1244 1848 1396 1881">S814-114000</p>

4) CN TYPE CONNECTOR

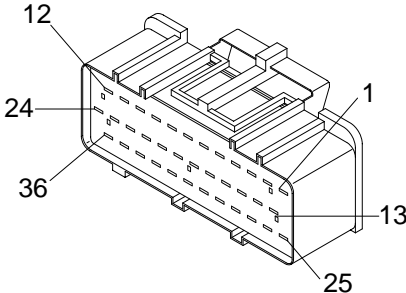
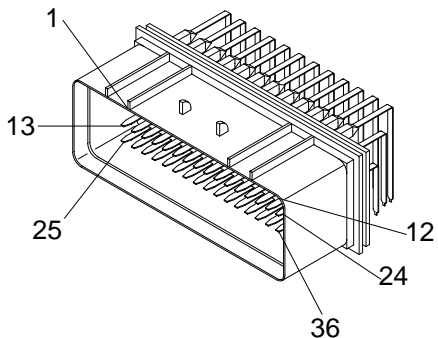
No. of pin	Receptacle connector(Female)	Plug connector(Male)
1	 <p data-bbox="687 678 836 707">S810-001202</p>	 <p data-bbox="1241 678 1390 707">S810-101202</p>
2	 <p data-bbox="687 1081 836 1111">S810-002202</p>	 <p data-bbox="1241 1081 1390 1111">S810-102202</p>
3	 <p data-bbox="687 1491 836 1520">S810-003202</p>	 <p data-bbox="1241 1491 1390 1520">S810-103202</p>
4	 <p data-bbox="687 1895 836 1924">S810-004202</p>	 <p data-bbox="1241 1895 1390 1924">S810-104202</p>

No. of pin	Receptacle connector(Female)	Plug connector(Male)
6	 <p data-bbox="686 627 837 660">S810-006202</p>	 <p data-bbox="1244 627 1396 660">S810-106202</p>
8	 <p data-bbox="686 1030 837 1064">S810-008202</p>	 <p data-bbox="1244 1030 1396 1064">S810-108202</p>

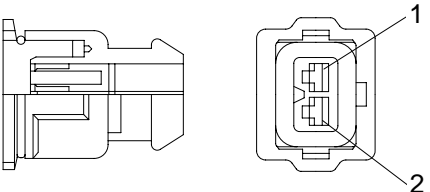
5) 375 FASTEN TYPE CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 <p data-bbox="686 672 837 705">S810-002402</p>	 <p data-bbox="1236 672 1388 705">S810-102402</p>

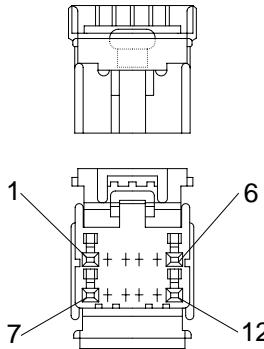
6) AMP ECONOSEAL CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
36	 <p data-bbox="726 1254 837 1288">344111-1</p>	 <p data-bbox="1276 1254 1388 1288">344108-1</p>

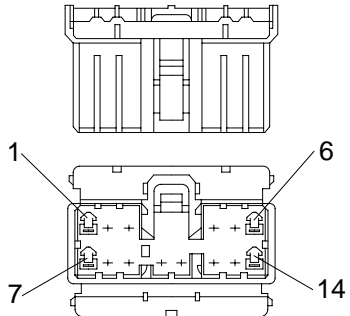
7) AMP TIMER CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 <p data-bbox="742 1848 837 1881">85202-1</p>	

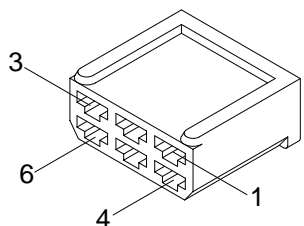
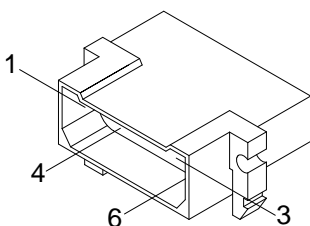
8) AMP 040 MULTILOCK CONNECTOR

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

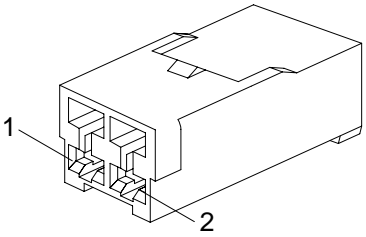
9) AMP 070 MULTILOCK CONNECTOR

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

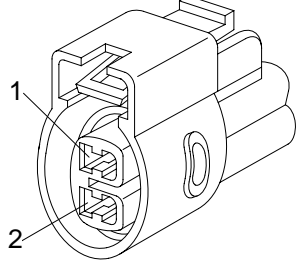
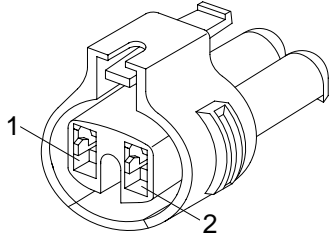
10) AMP FASTIN - FASTON CONNECTOR

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

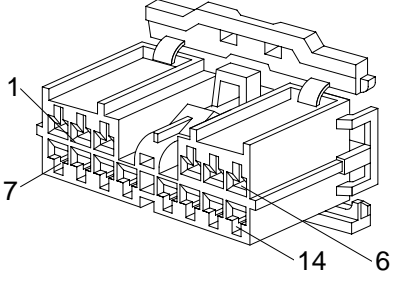
11) KET 090 CONNECTOR

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

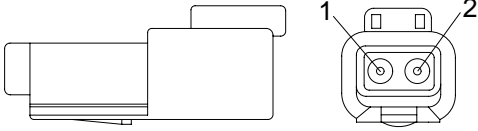
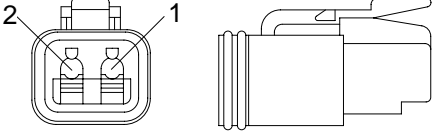
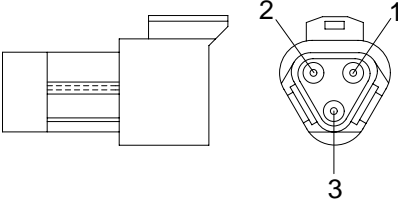
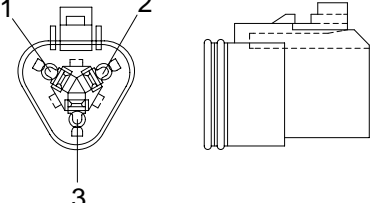
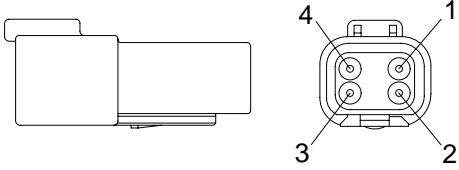
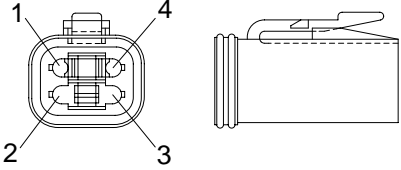
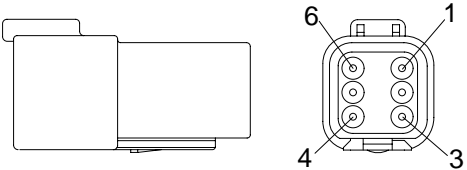
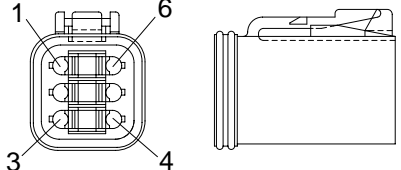
12) KET 090 WP CONNECTORS

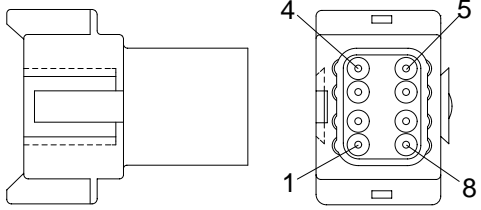
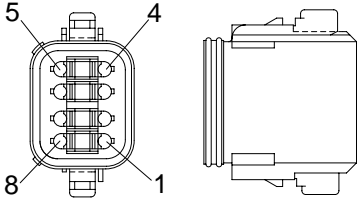
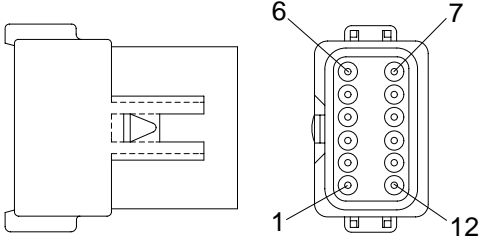
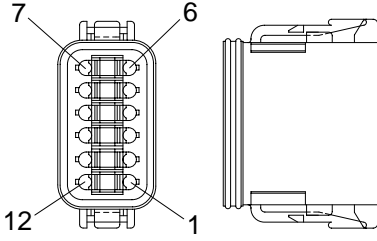
No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 <p style="text-align: right;">MG640605</p>	
2	 <p style="text-align: right;">MG640795</p>	

12) KET SDL CONNECTOR

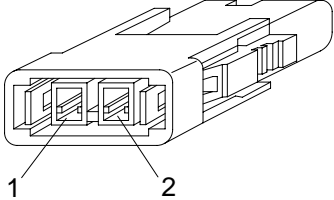
No. of pin	Receptacle connector(Female)	Plug connector(Male)
14	 <p data-bbox="715 678 837 705">MG610406</p>	

13) DEUTSCH DT CONNECTORS

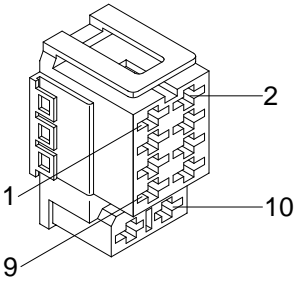
No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 <p style="text-align: center;">DT06-2S</p>	 <p style="text-align: center;">DT06-2P</p>
3	 <p style="text-align: center;">DT06-3S</p>	 <p style="text-align: center;">DT06-3P</p>
4	 <p style="text-align: center;">DT06-4S</p>	 <p style="text-align: center;">DT06-4P</p>
6	 <p style="text-align: center;">DT06-6S</p>	 <p style="text-align: center;">DT06-6P</p>

No. of pin	Receptacle connector(Female)	Plug connector(Male)
8	 <p style="text-align: right;">DT06-8S</p>	 <p style="text-align: right;">DT06-8P</p>
12	 <p style="text-align: right;">DT06-12S</p>	 <p style="text-align: right;">DT06-12P</p>

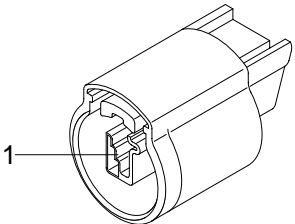
14) MOLEX 2CKTS CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
2	 <p style="text-align: right;">35215-0200</p>	

15) ITT SWF CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
10	 <p style="text-align: right;">SWF593757</p>	

16) MWP NMWP CONNECTOR

No. of pin	Receptacle connector(Female)	Plug connector(Male)
1	 <p style="text-align: right;">NMWP01F-B</p>	