

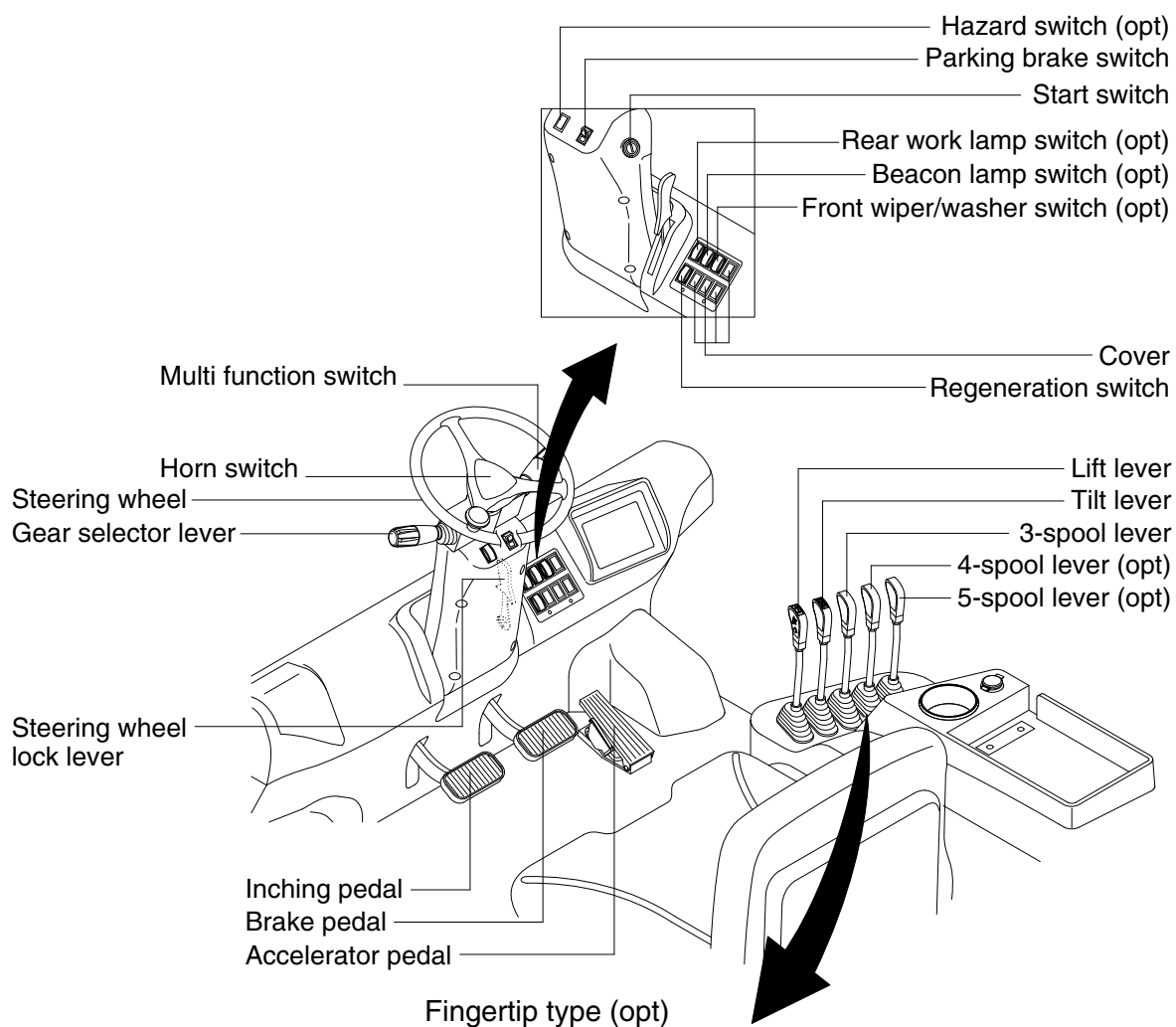
SECTION 7 ELECTRICAL SYSTEM

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Group 3 Component specification	7-19
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Group 5 Troubleshooting	7-24

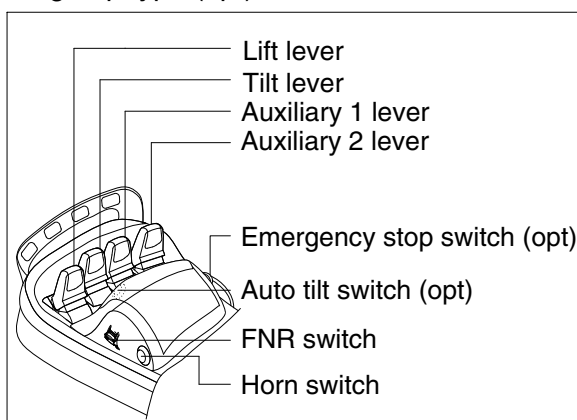
SECTION 7 ELECTRICAL SYSTEM

GROUP 1 COMPONENT LOCATION

1. LOCATION 1

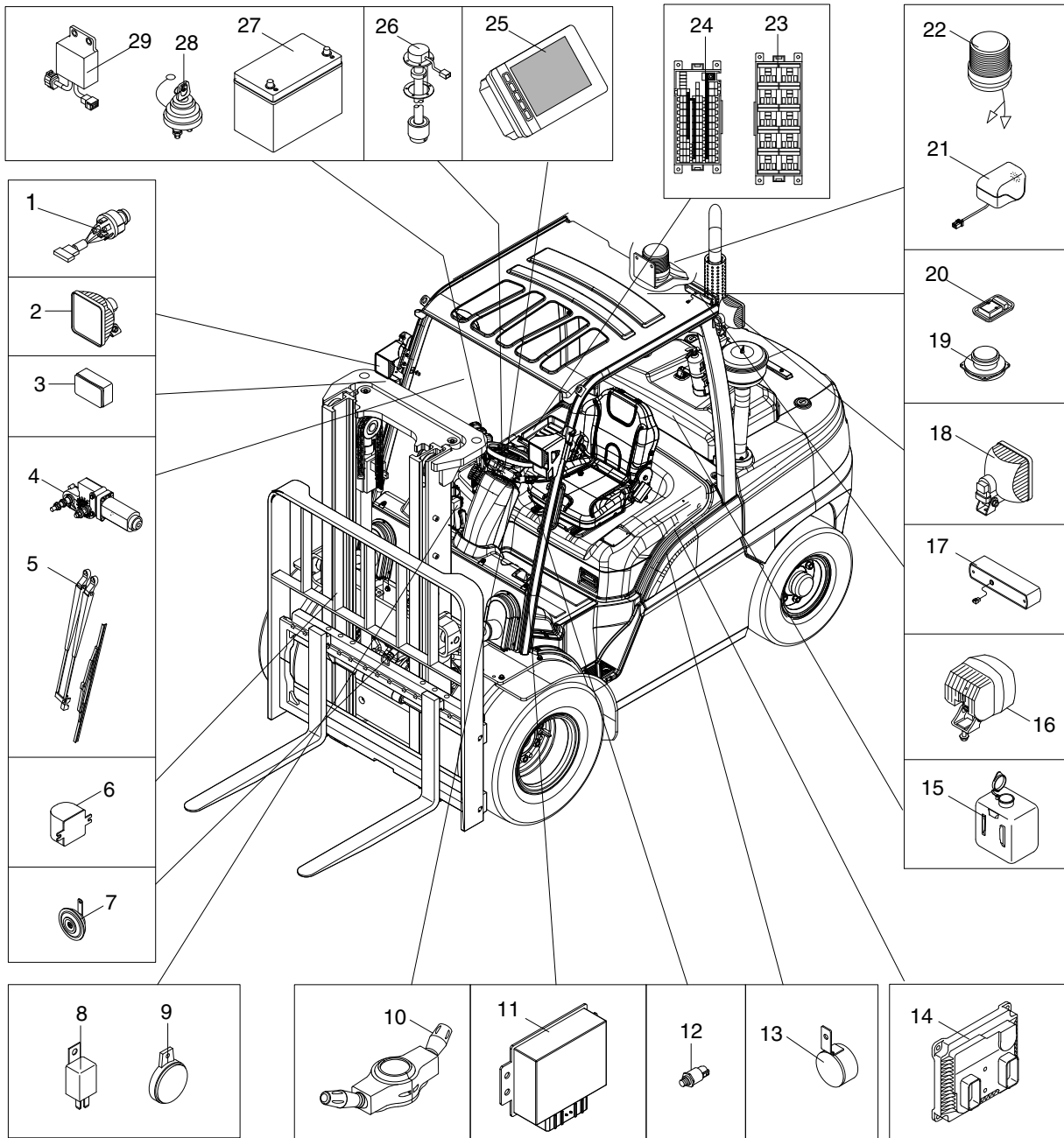


Fingertip type (opt)



35D9VB7ES01

2. LOCATION 2

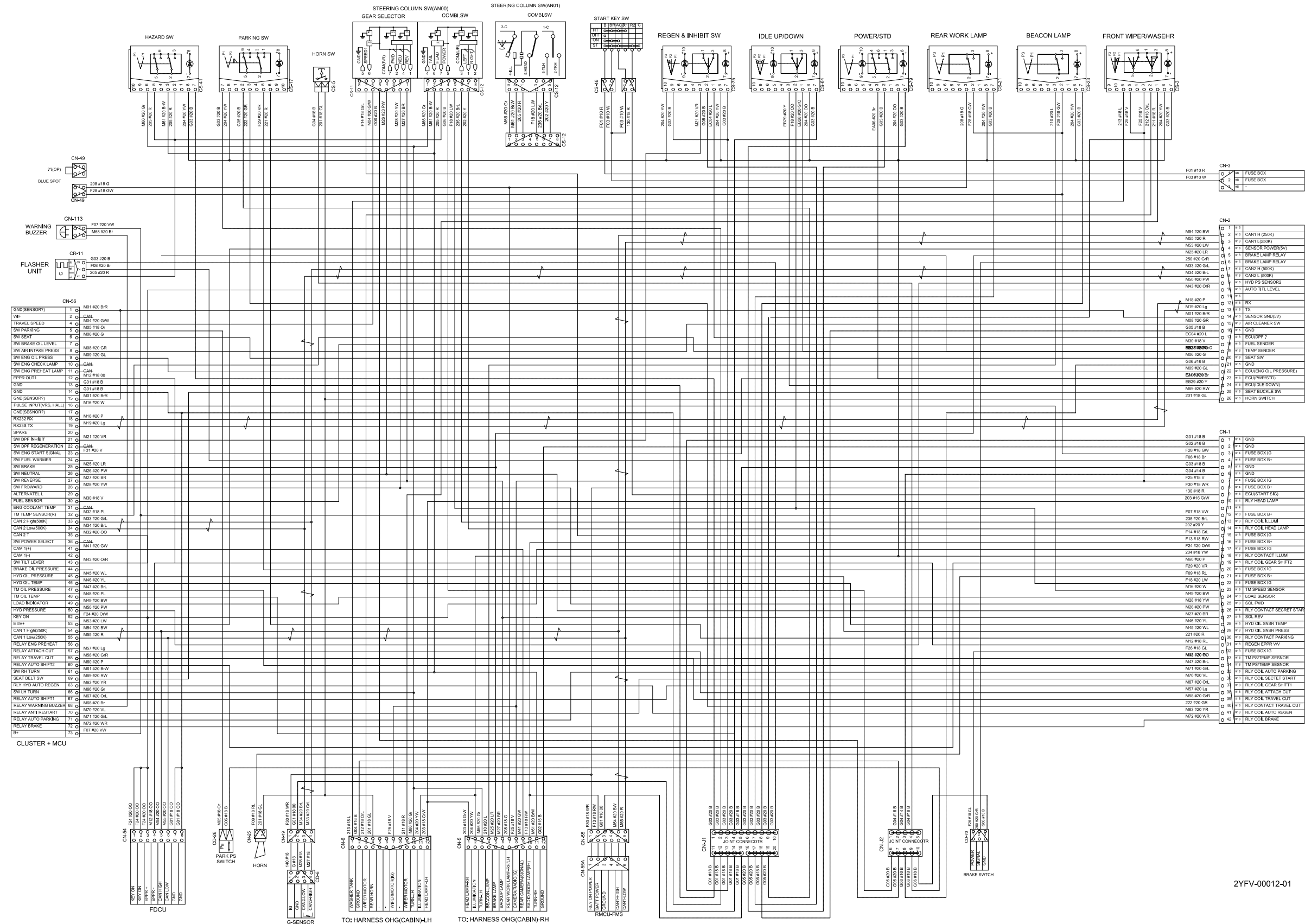


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- | | | | | | |
|----|---------------------------|----|-----------------------|----|----------------------|
| 1 | Start switch | 11 | FDCU | 21 | Camera (opt) |
| 2 | Front work lamp | 12 | Load sensor (opt) | 22 | Beacon lamp (opt) |
| 3 | Front turn lamp | 13 | Back buzzer | 23 | Relay box |
| 4 | Wiper motor (opt) | 14 | Engine control module | 24 | Fuse box |
| 5 | Wiper arm and blade (opt) | 15 | Washer tank (opt) | 25 | Cluster CI |
| 6 | G-sensor (opt) | 16 | Blue spot (opt) | 26 | Fuel sender |
| 7 | Horn | 17 | Rear combination lamp | 27 | Battery |
| 8 | Flusher unit | 18 | Rear work lamp (opt) | 28 | Master switch (opt) |
| 9 | Intermittent buzzer | 19 | Speaker (opt) | 29 | FNR controller (opt) |
| 10 | Multifunction switch | 20 | Room lamp (opt) | | |

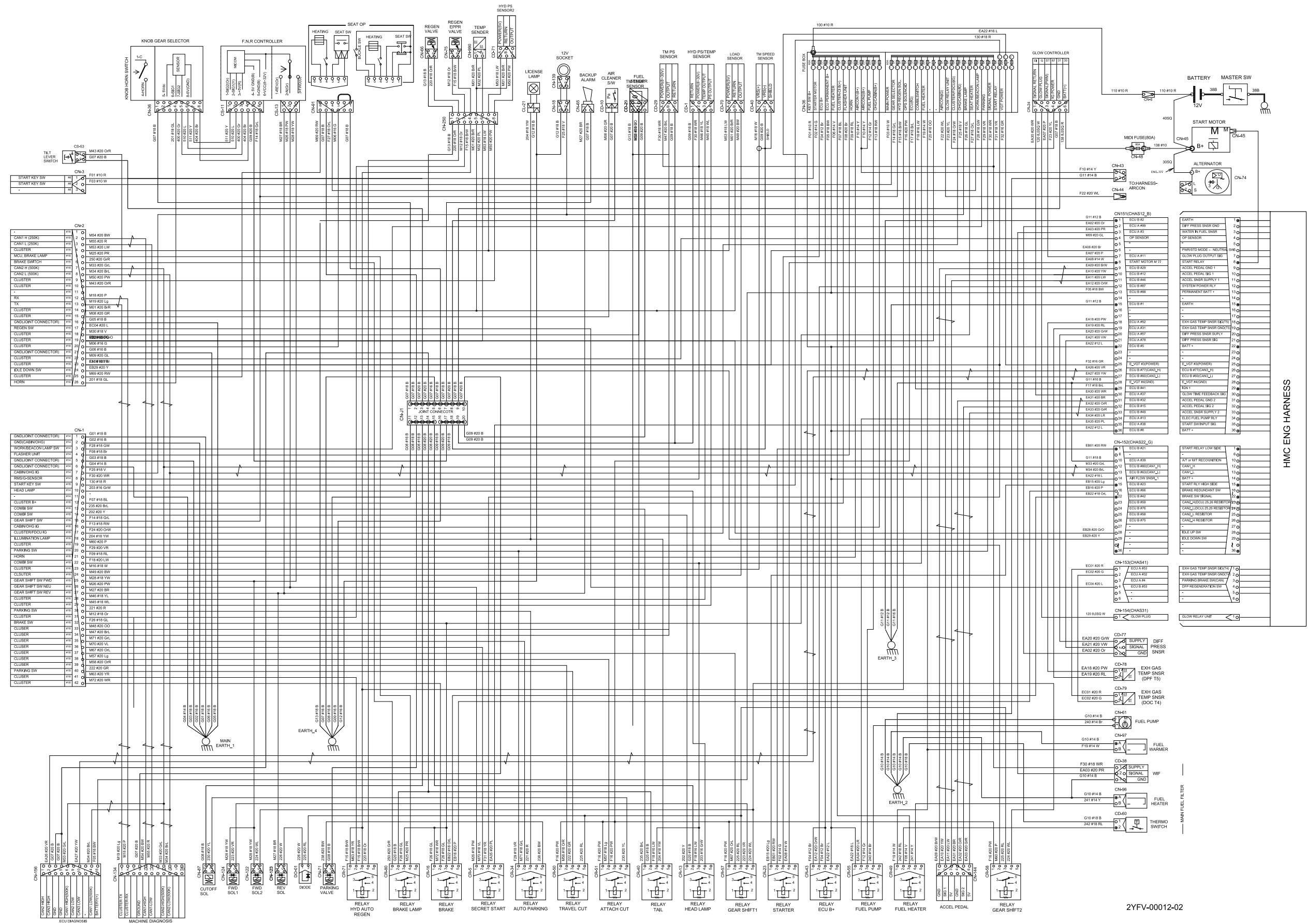
GROUP 2 ELECTRICAL CIRCUIT

· ELECTRICAL CIRCUIT (1/4, DASHBOARD)



2YFV-00012-01

ELECTRICAL CIRCUIT (2/4, FRAME)

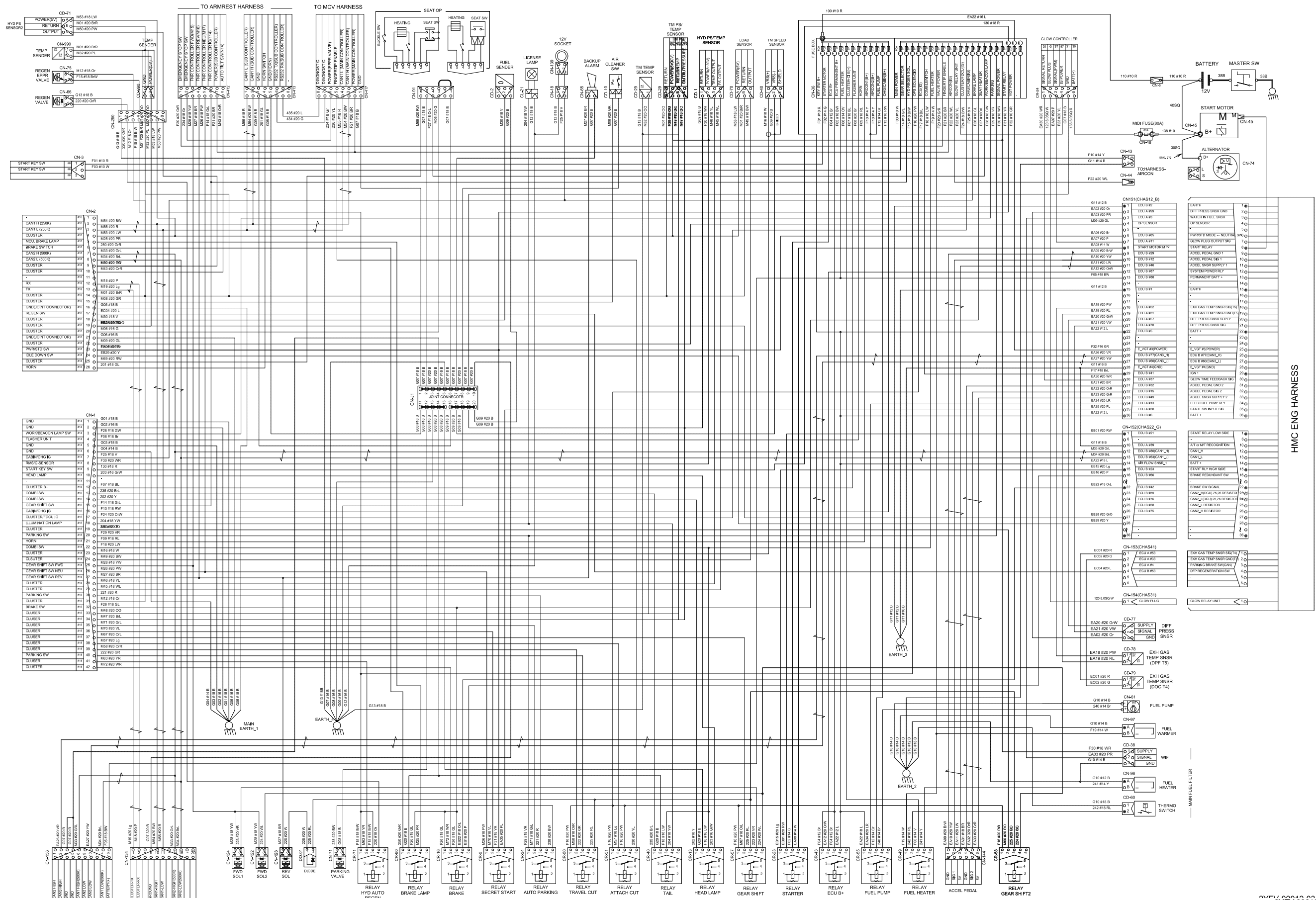


HMC ENG HARNESS

2YFV-0012-02

2YFV-0012-00 20F4

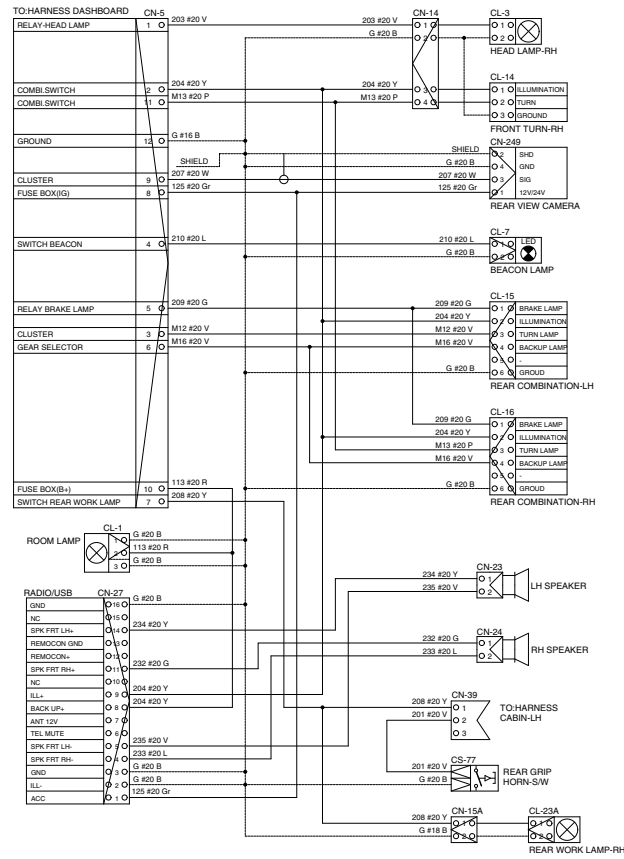
ELECTRICAL CIRCUIT (3/4, FRAME-FINGERITP)



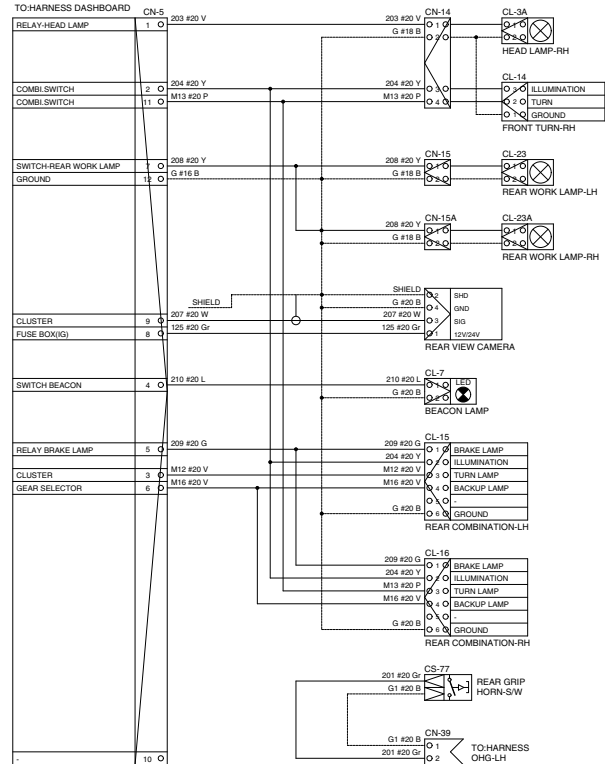
HMC ENG HARNESS

ELECTRICAL CIRCUIT (4/4, CABIN, OHG, MCV, ARMREST)

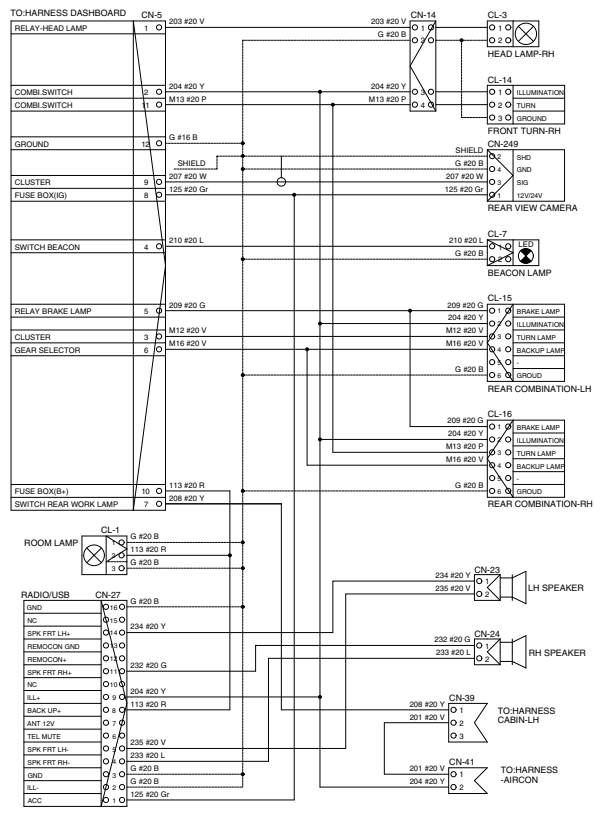
*ELEC.DIAGRAM OF HARNESS CABIN-RH(W/O AIRCON)



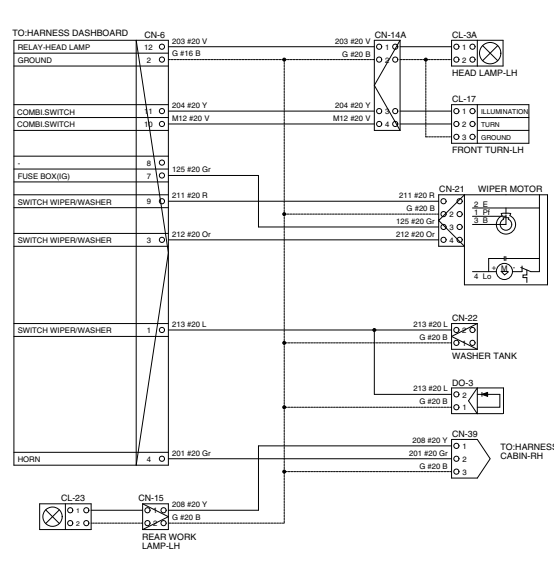
*ELEC.DIAGRAM OF HARNESS OHG-RH



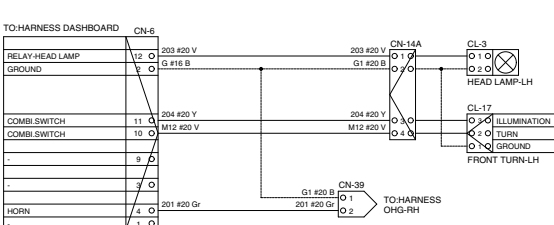
*ELEC.DIAGRAM OF HARNESS CABIN-RH(WITH AIRCON)



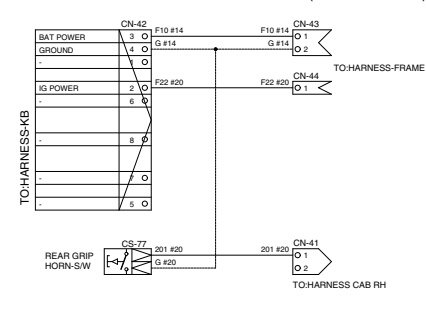
*ELEC.DIAGRAM OF HARNESS CABIN-LH



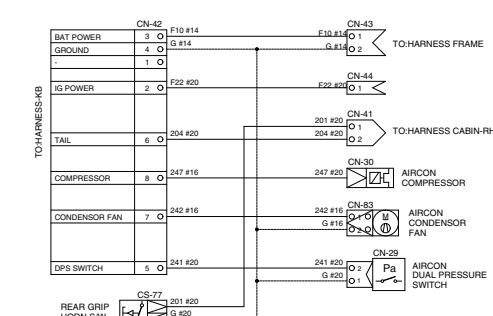
*ELEC.DIAGRAM OF HARNESS OHG-LH



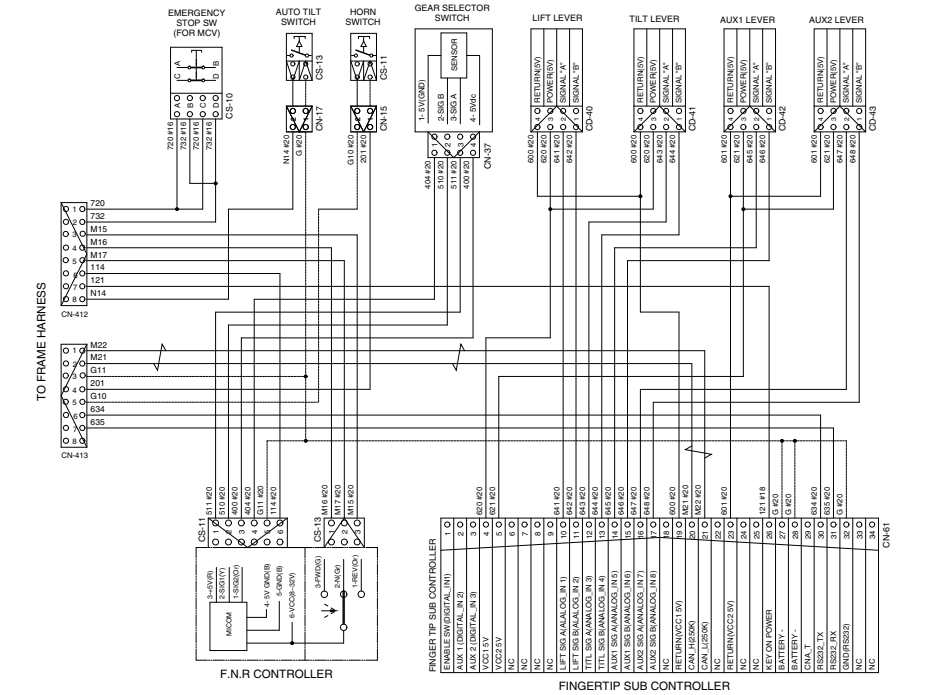
*ELEC.DIAGRAM OF HARNESS-HEATER (HEATER ONLY)



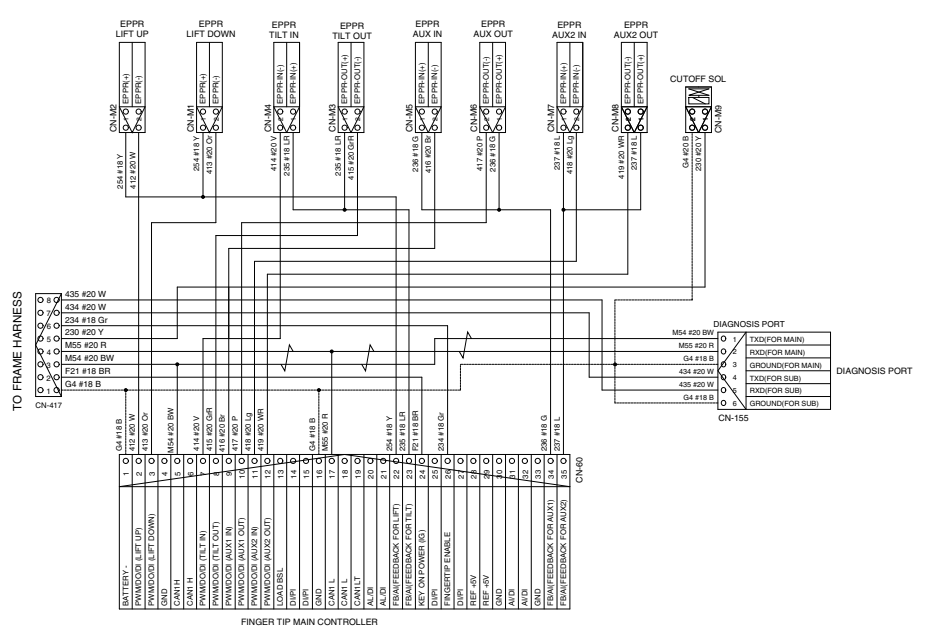
*ELEC.DIAGRAM OF HARNESS-AIRCON(AIRCON+HEATER)



*ELEC.DIAGRAM OF HARNESS ARMREST

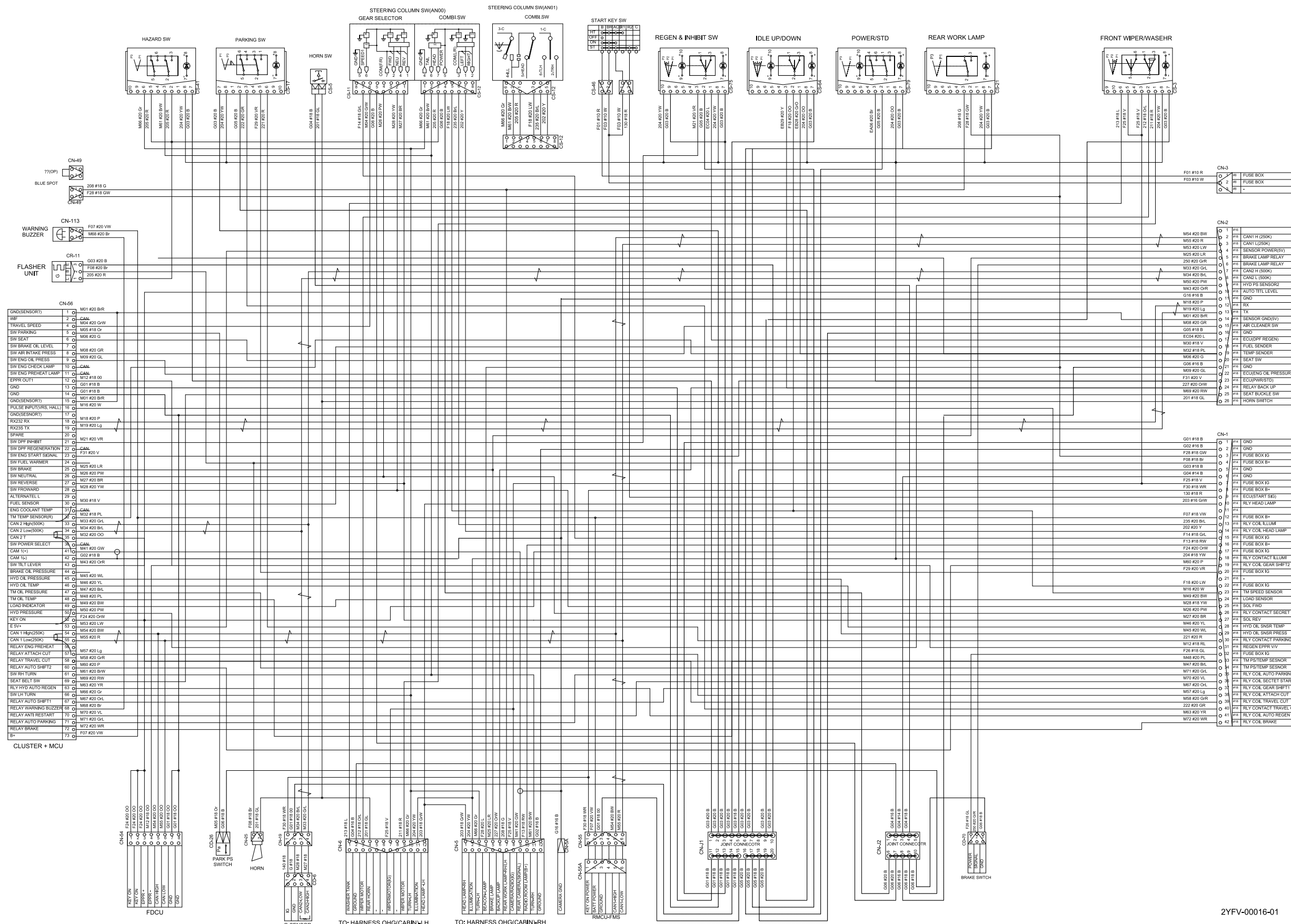


*ELEC.DIAGRAM OF HARNESS MCV



GROUP 2 ELECTRICAL CIRCUIT

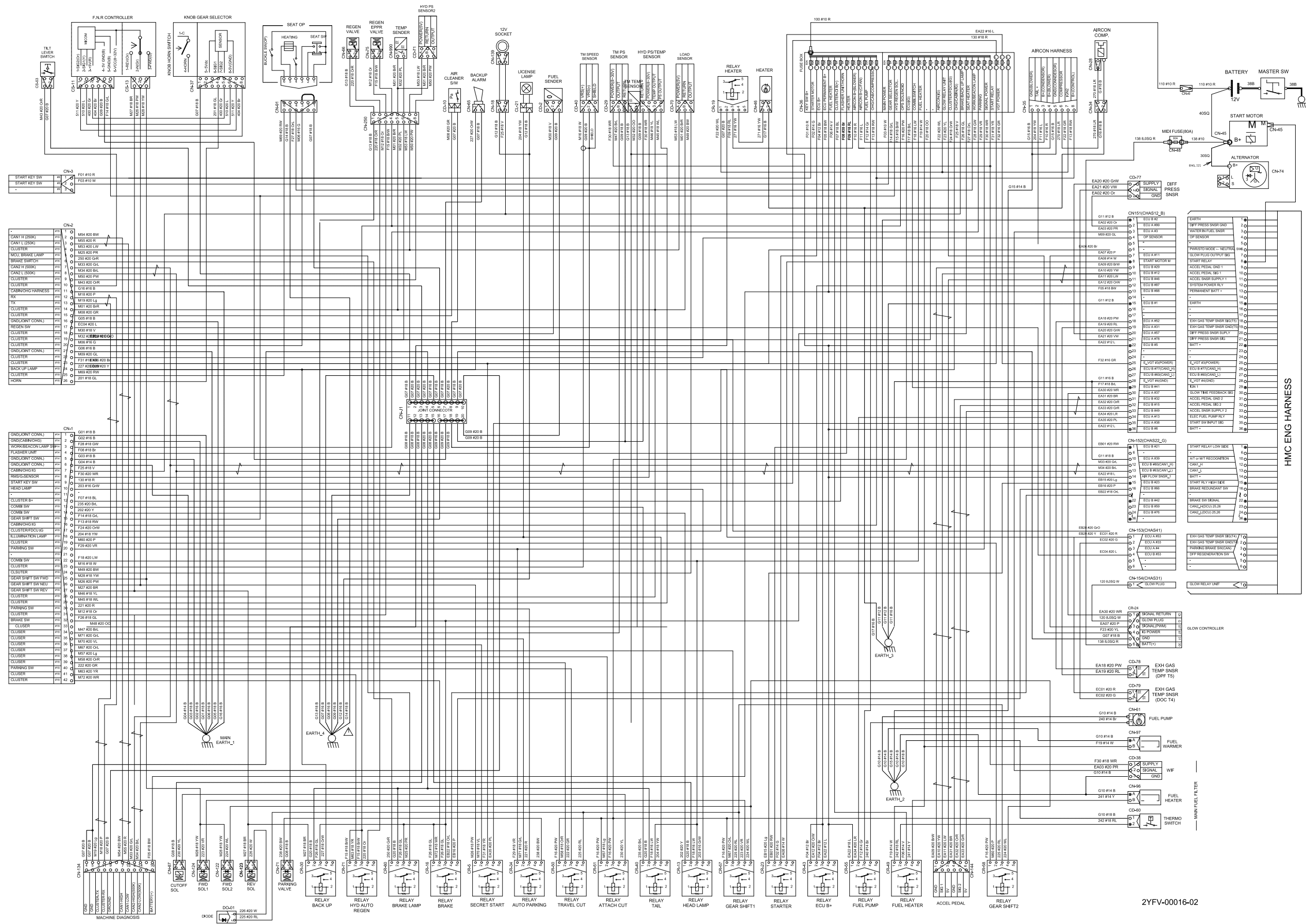
ELECTRICAL CIRCUIT (1/4, DASHBOARD)



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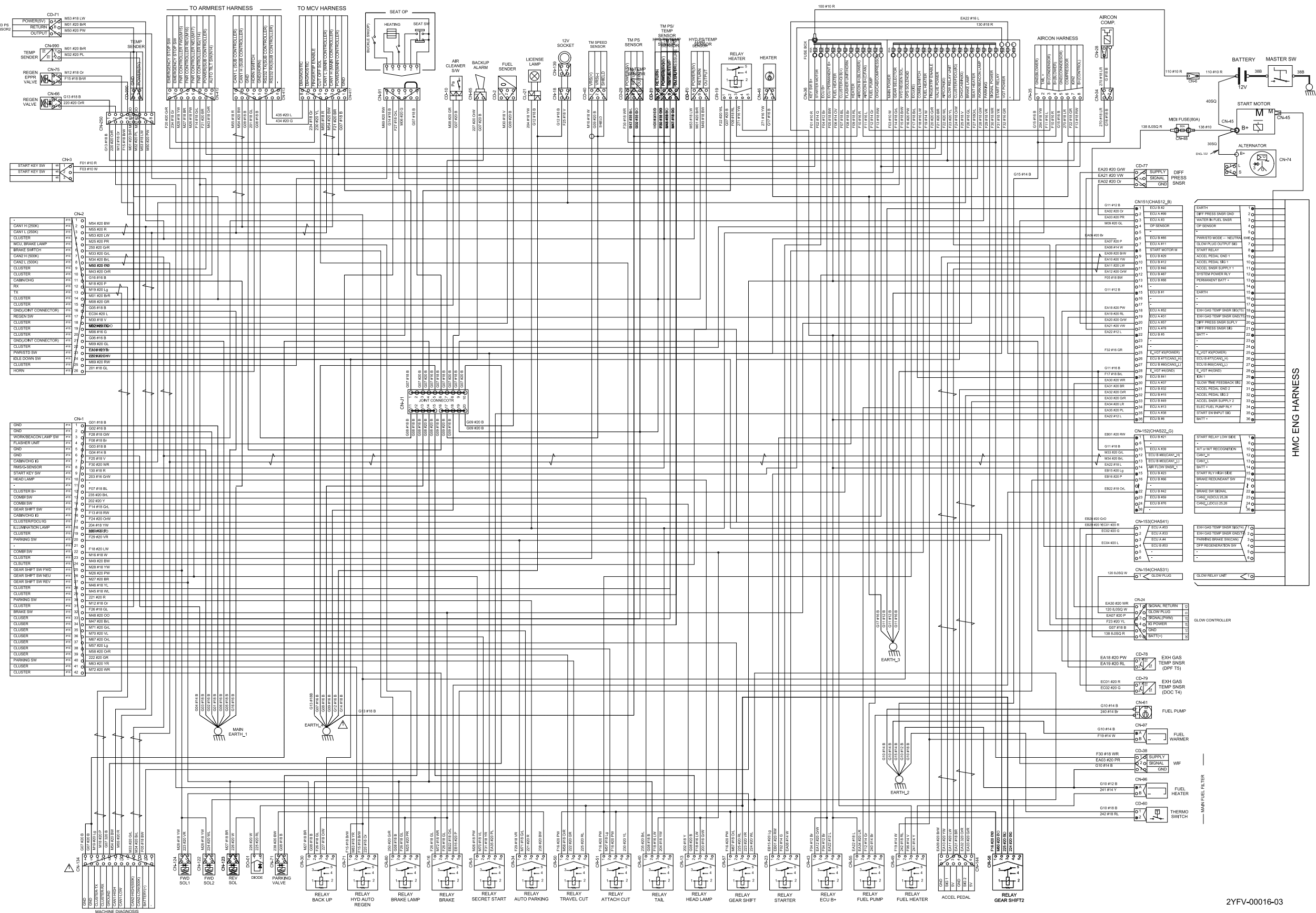
2YFV-00016-00 10F4

ELECTRICAL CIRCUIT (2/4, FRAME)



2YFV-00016-02

ELECTRICAL CIRCUIT (3/4, FRAME-FINGERITP)

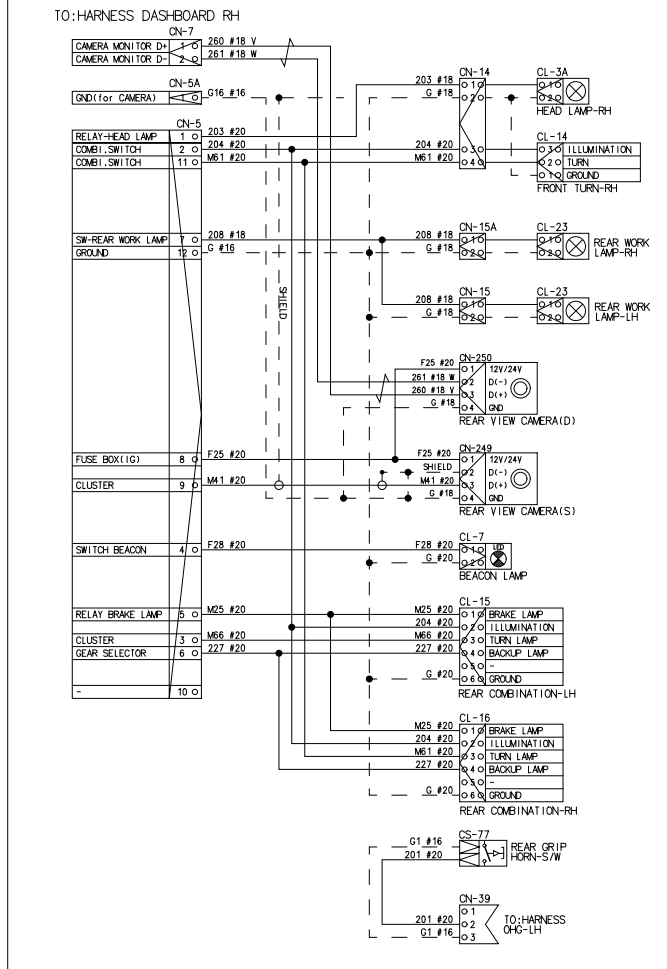


2YFV-00016-03

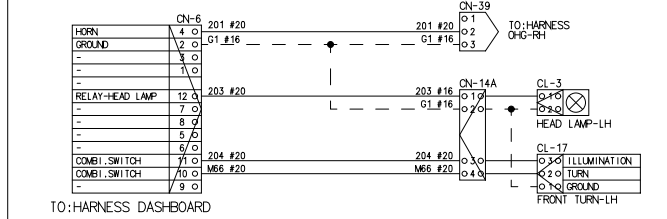
2YFV-00016-00 30F4

ELECTRICAL CIRCUIT (4/4, CABIN, OHG, AIRCON, HEATER)

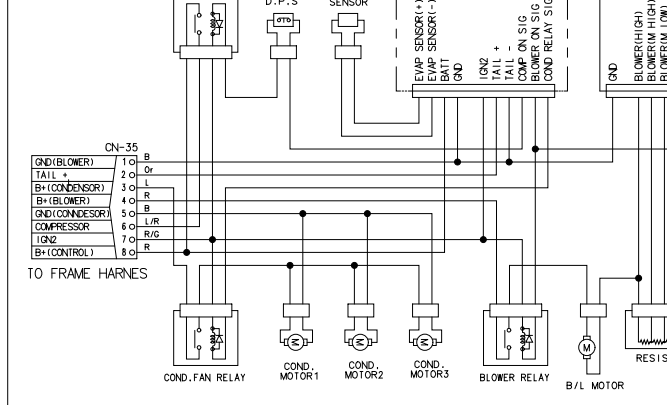
*ELEC. DIAGRAM OF HARNESS OHG-RH(PATIAL CABN-RH)



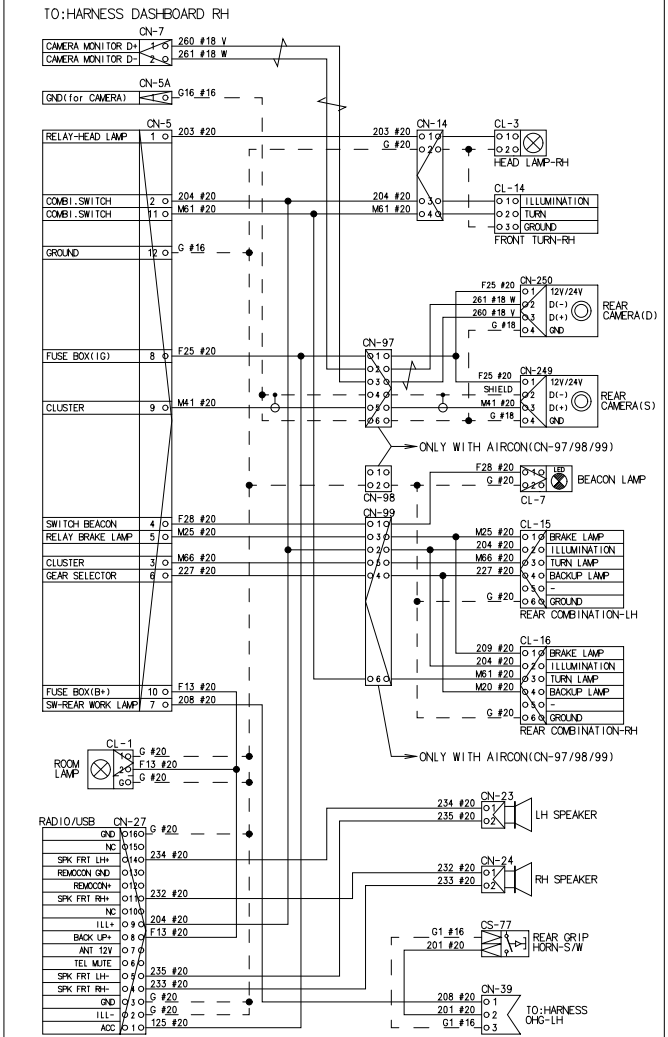
*ELEC. DIAGRAM OF HARNESS OHG-LH



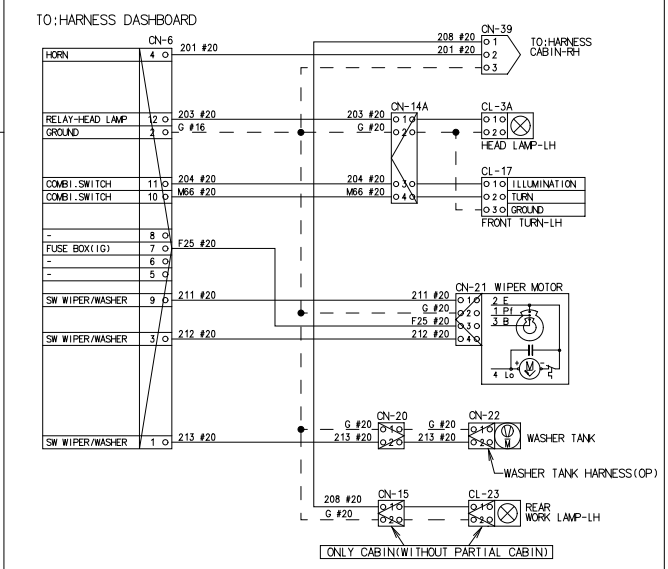
*AIR-CON



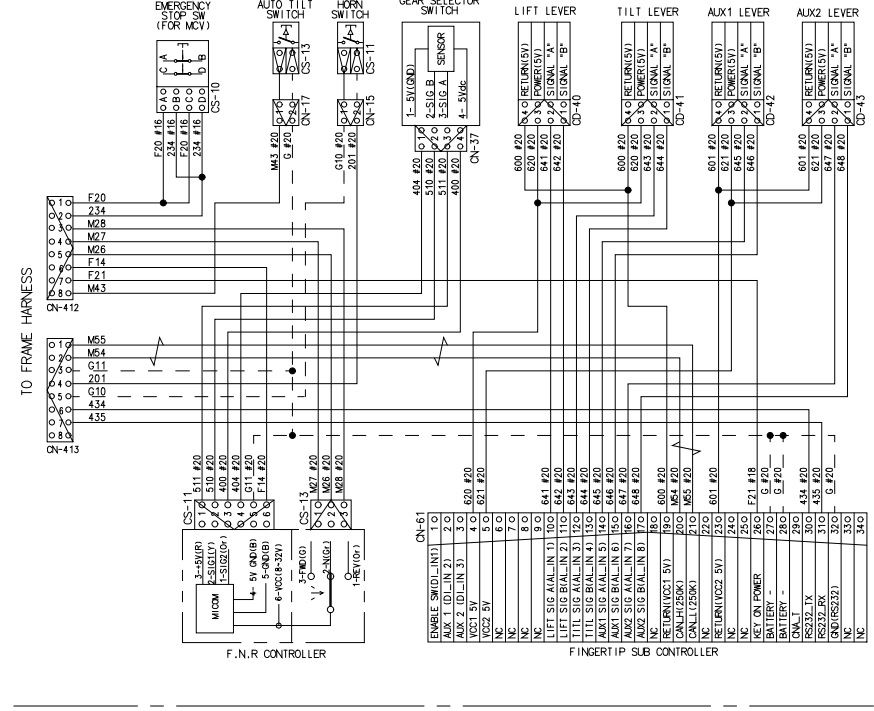
*ELEC. DIAGRAM OF HARNESS CABIN-RH



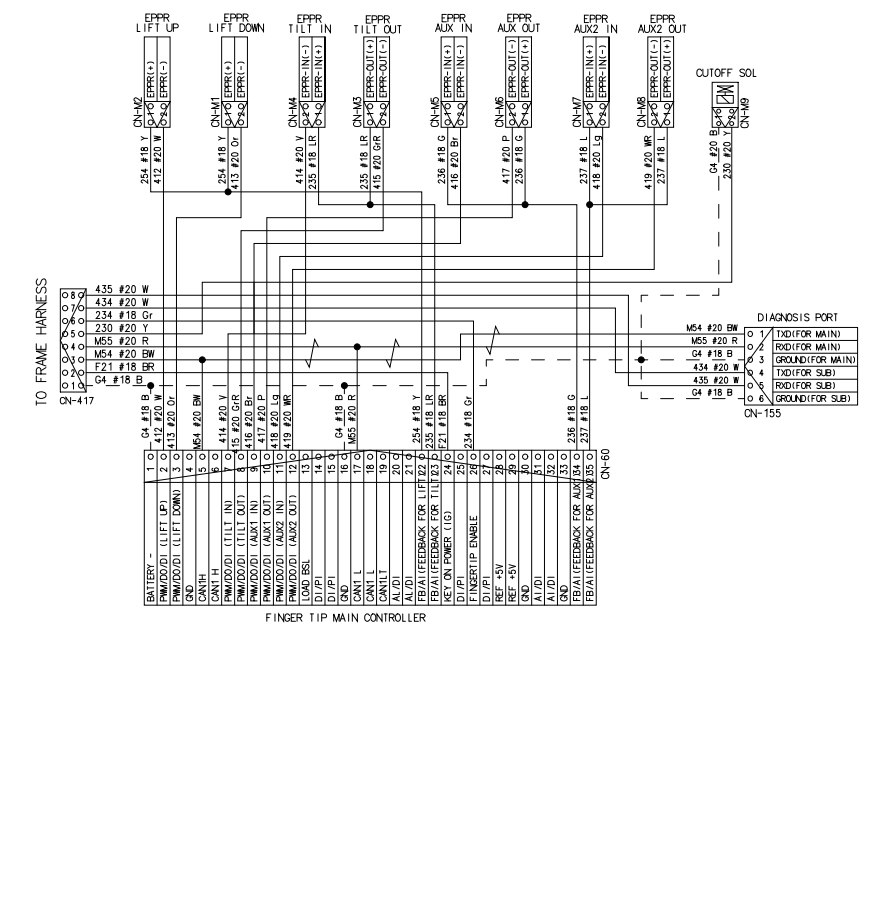
*ELEC. DIAGRAM OF HARNESS CABIN-LH(PATIAL CABIN-LH)



*ELEC. DIAGRAM OF HARNESS ARMREST



*ELEC. DIAGRAM OF HARNESS MCV



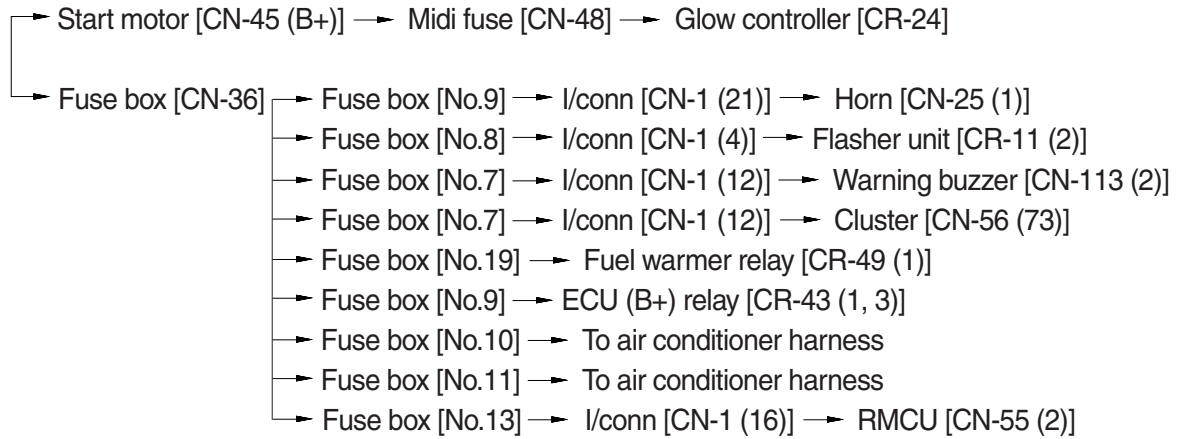
1. POWER CIRCUIT

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

When the start switch is in the off position, the current flows from the positive battery terminal.

1) OPERATING FLOW

Battery (+)



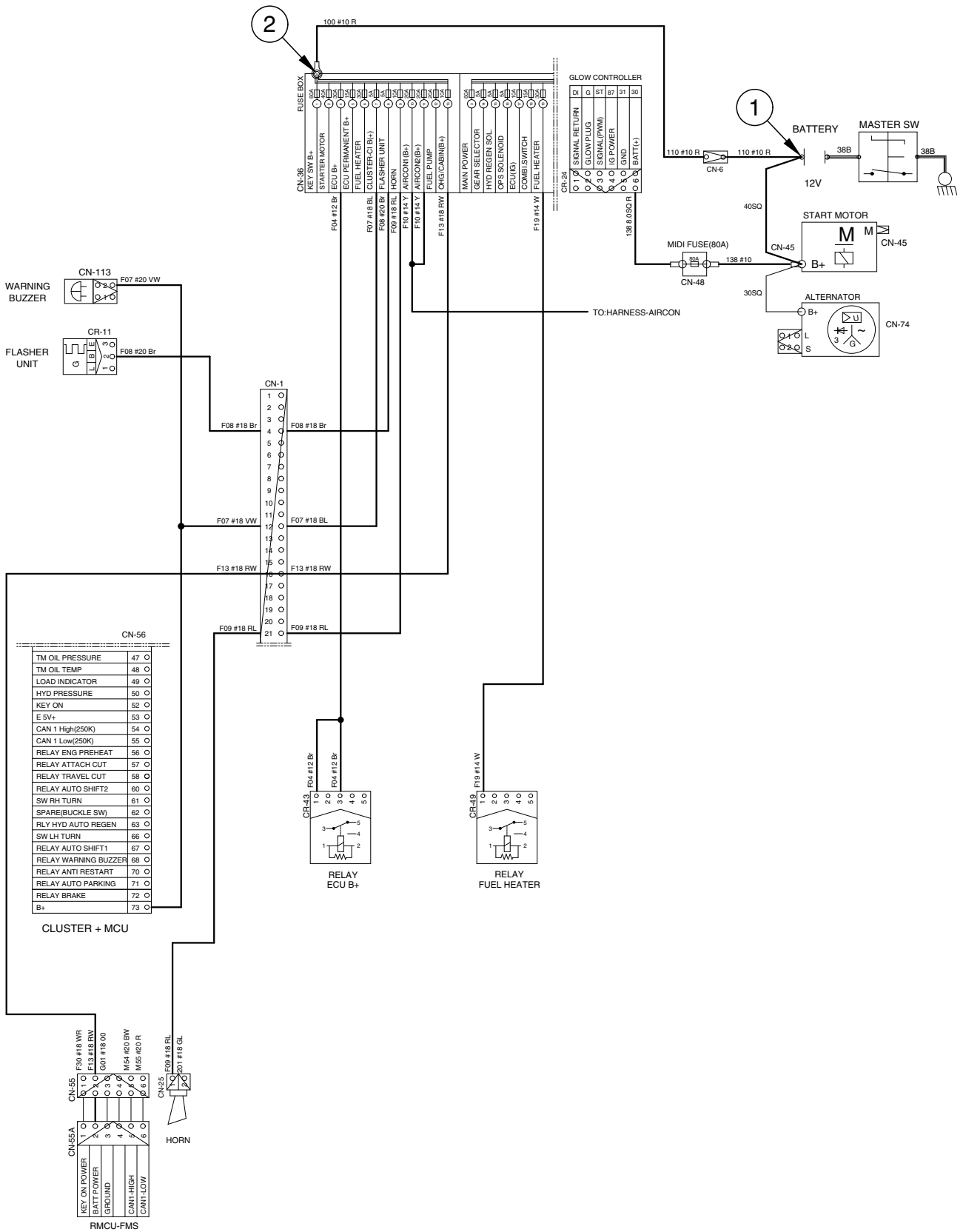
2) CHECK POINT

Engine	Start switch	Check point	Voltage
STOP	OFF	① - GND (Battery +) ② - GND (Fuse B+)	12V

※ GND : Ground

※ The circuit diagram may differ from the equipment, so please check before a repair.

POWER CIRCUIT



35D9VB7ES03

※ The circuit diagram may differ from the equipment, so please check before a repair.

2. STARTING CIRCUIT

1) OPERATING FLOW

Battery (+) terminal → Start motor [CN-45 (B+)]

※ The engine can be started only when the gear selector lever is in neutral position.

(1) When start switch is in ON position

Start switch ON [CS-46 (2)] → I/conn [CN-3 (2)] → Fuse box [CN-36 (No.3)]

→ Power is supply with the electric components.

(2) When start switch is START position

Start switch START [CS-46 (2)] → I/conn [CN-1 (9)] → Fuse box [CN-36 (No.34 → 31)]

→ Secret relay [CR-5 (3 → 4)] → Engine harness [CN-151 (35)] → Start motor operating

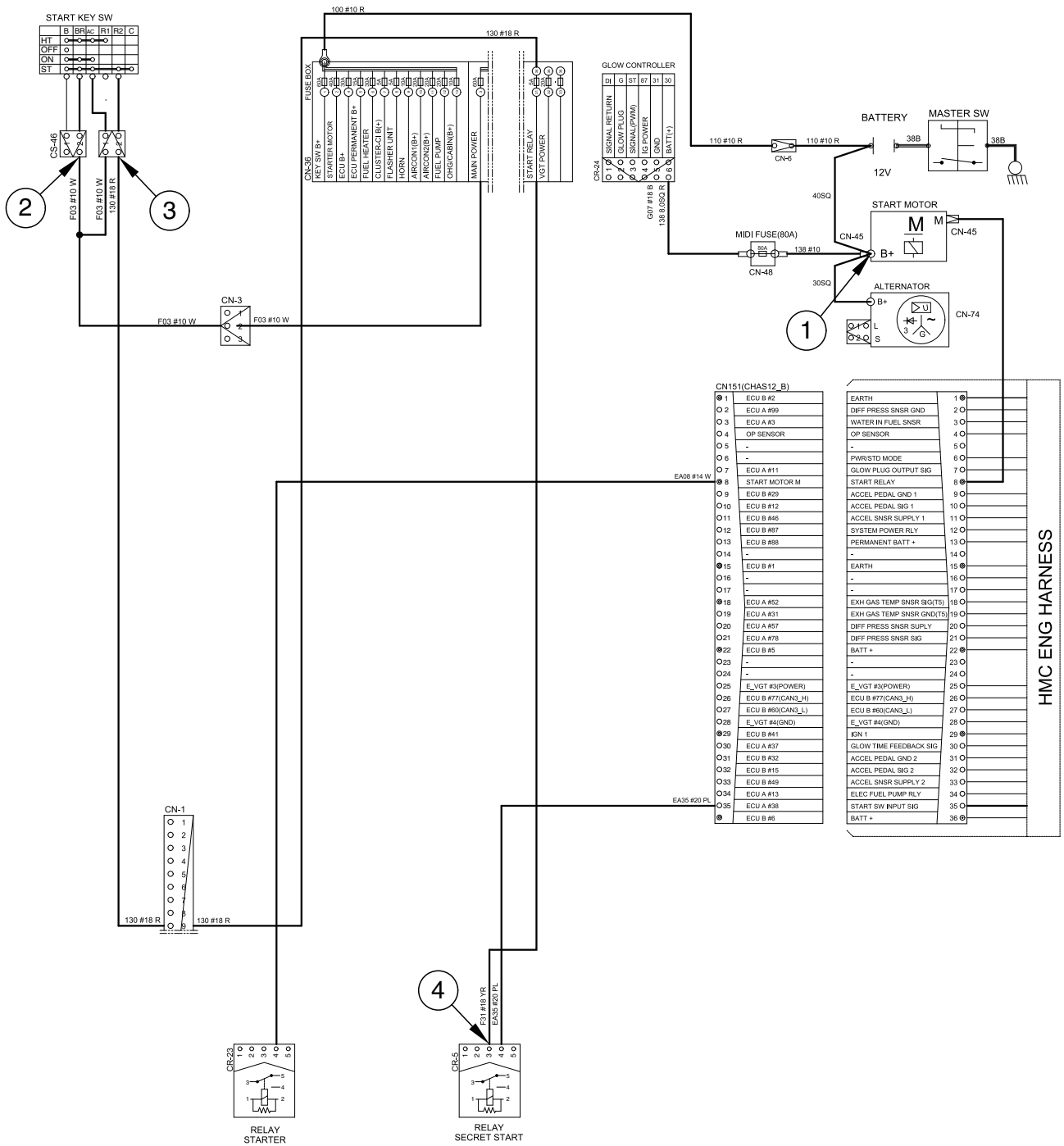
2) CHECK POINT

Engine	Start switch	Check point	Voltage
Running	ON	① - GND (Battery B+) ② - GND (Start key switch) ③ - GND (Start key switch) ④ - GND (Secret start relay)	12V

※ GND : Ground

※ The circuit diagram may differ from the equipment, so please check before a repair.

STARTING CIRCUIT



35D9VB7ES04

※ The circuit diagram may differ from the equipment, so please check before a repair.

3. CHARGING CIRCUIT

When the starter is activated and the engine is started, the operator release the start switch to the ON position. Charging current generated by operating alternator flows into the battery. The current also flows from alternator to each electrical component through the fuse box.

1) OPERATING FLOW

(1) Warning flow

Cluster charging warning lamp (via CAN interface)

(2) Charging flow

Alternator (B+) → Start motor [CN-45 (B+)] → Battery (+) terminal → Charging

2) CHECK POINT

Engine	Start switch	Check point	Voltage
Running	ON	① - GND (Alternator B+) ② - GND (Battery voltage)	12V

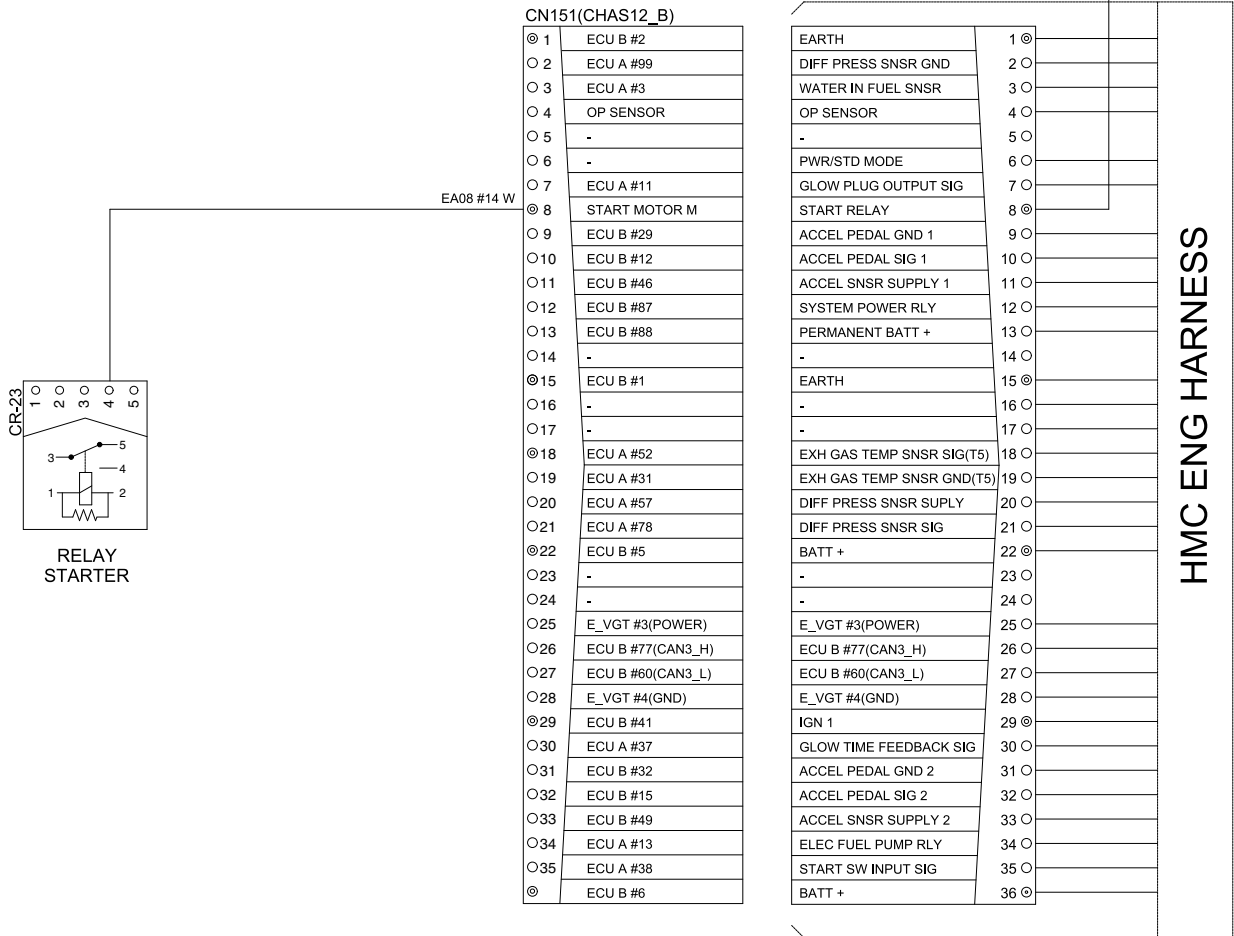
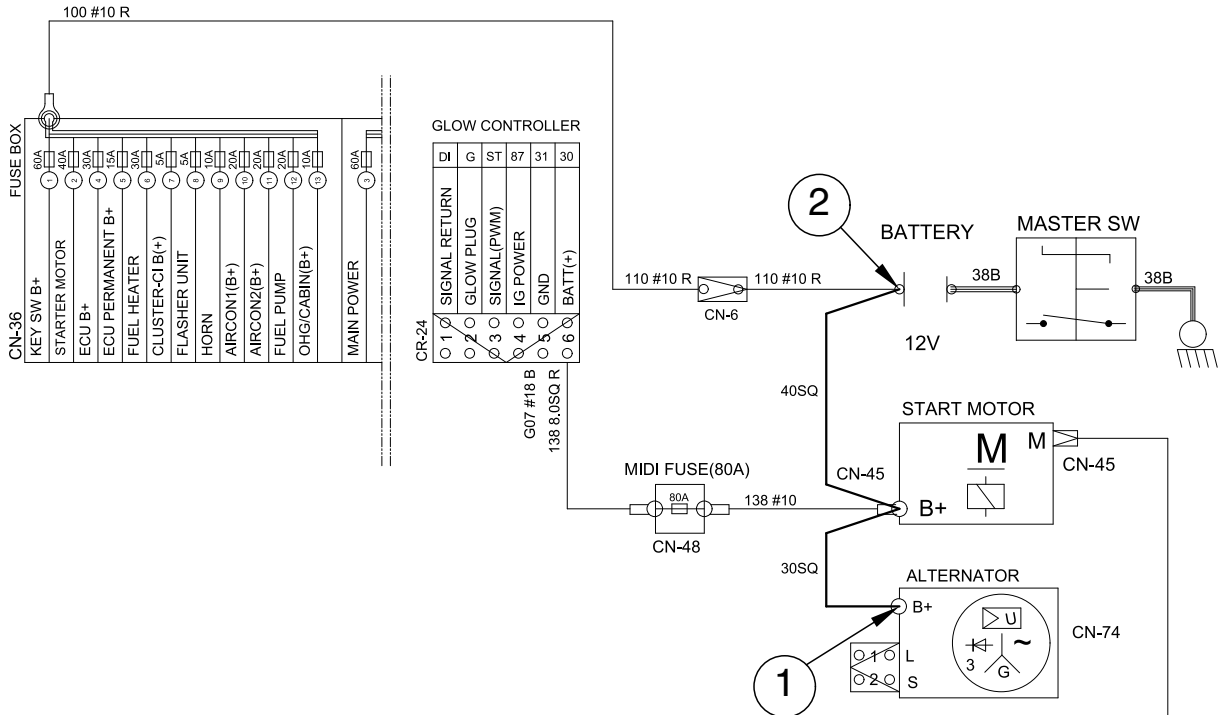
※ GND : Ground

※ Cautions

1. When using an arc welder, always disconnect the ground lead from the battery to prevent alternator or battery damage.
2. Attach the welding ground clamp as close to the weld area as possible to prevent welding current from damaging the bearings of the alternator.
3. Do not disconnect the battery when the engine is running. The voltage surge can damage the diode and resistors in the electrical system.
4. Do not disconnect an electric wire before the engine is stopped and the switches are OFF.

※ The circuit diagram may differ from the equipment, so please check before a repair.

CHARGING CIRCUIT



35D9VB7ES05

※ The circuit diagram may differ from the equipment, so please check before a repair.

4. PREHEATER AND FUEL WARMER CIRCUIT

Combustion chamber air heater are used in order to give satisfactory starting of low ambient temperatures.

1) OPERATING FLOW

(1) Preheater

Battery (+) terminal → Start motor [CN-45 (B+)] → Midi fuse [CN-48]
→ Glow controller [CR-24]

※ When you turn the start switch to the ON position, the air heater relay makes the air heater operated and the air heater pilot lamp of the cluster turned ON.

(2) Fuel heater

Thermo switch [CD-60(2)] → Fuel warmer relay [CR-49 (2)]
Fuse box [CN-36, No.6] → Fuel warmer relay [CR-49, (3 → 4)] → Fuel warmer [CN-96 (B)]
→ Fuel warmer operating

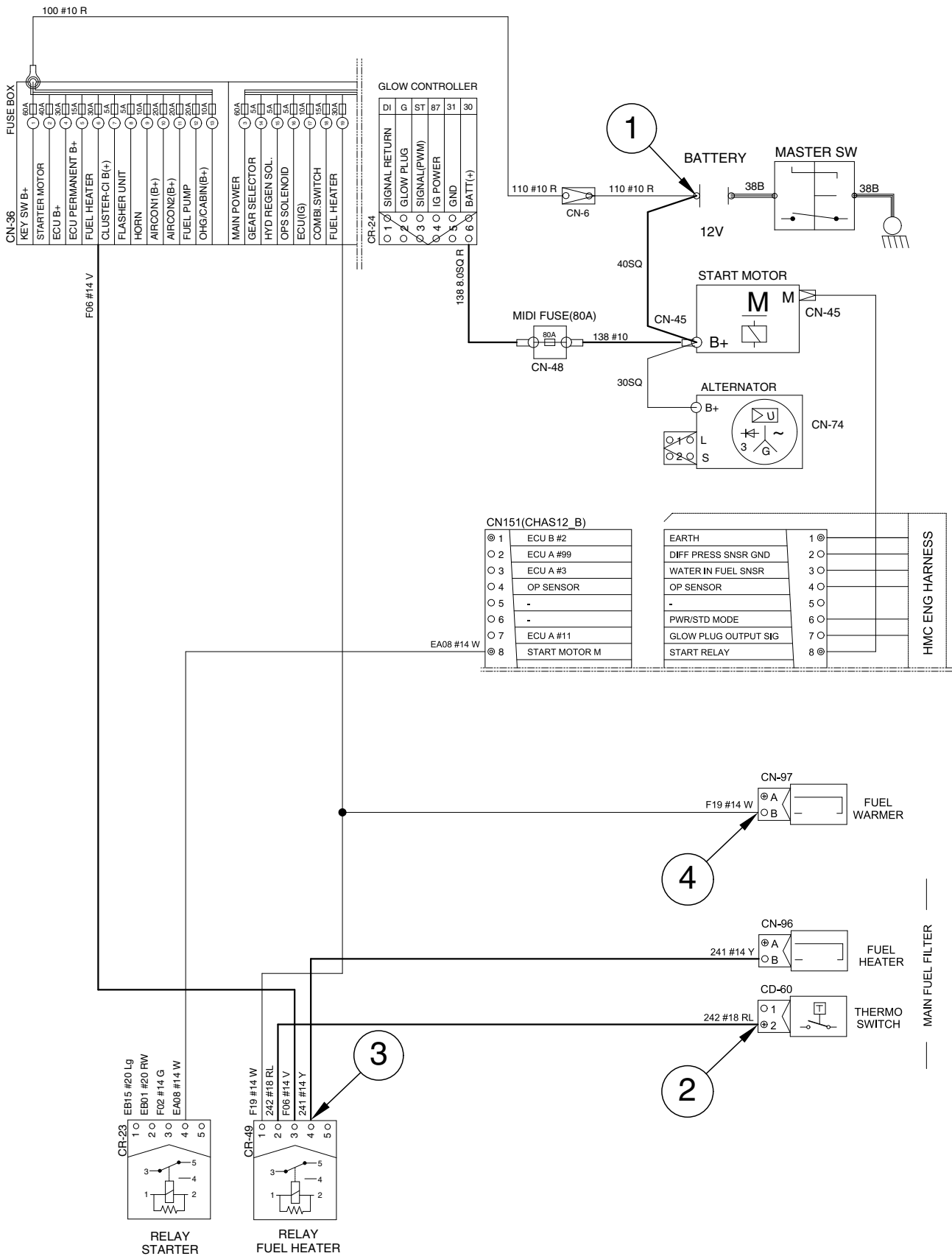
2) CHECK POINT

Engine	Key switch	Check point	Voltage
Stop	ON	① - GND (Battery B+) ② - GND (Thermo switch) ③ - GND (Fuel heater relay) ④ - GND (Fuel heater)	12V

※ GND : Ground

※ The circuit diagram may differ from the equipment, so please check before a repair.

PREHEATER AND FUEL WARMER CIRCUIT



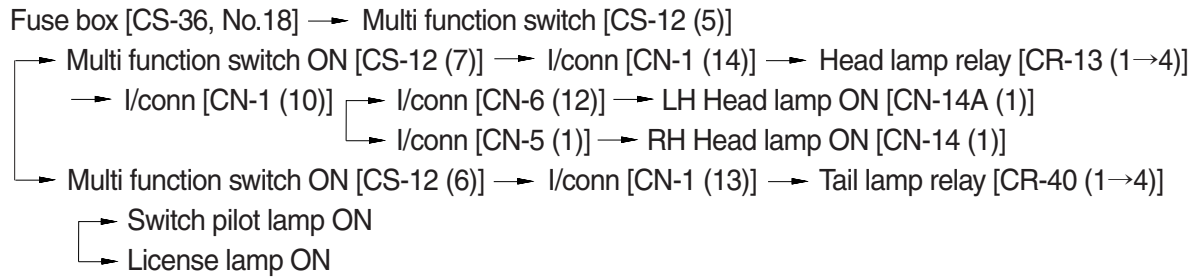
35D9VB7ES06

※ The circuit diagram may differ from the equipment, so please check before a repair.

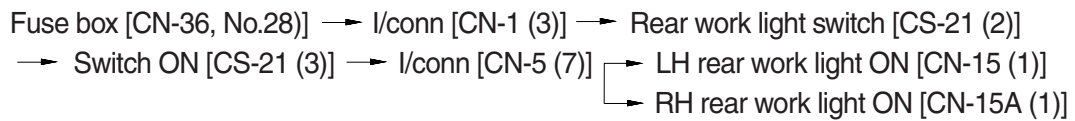
5. HEAD LIGHT AND REAR WORK LIGHT CIRCUIT

1) OPERATING FLOW

(1) Head light



(2) Rear work light



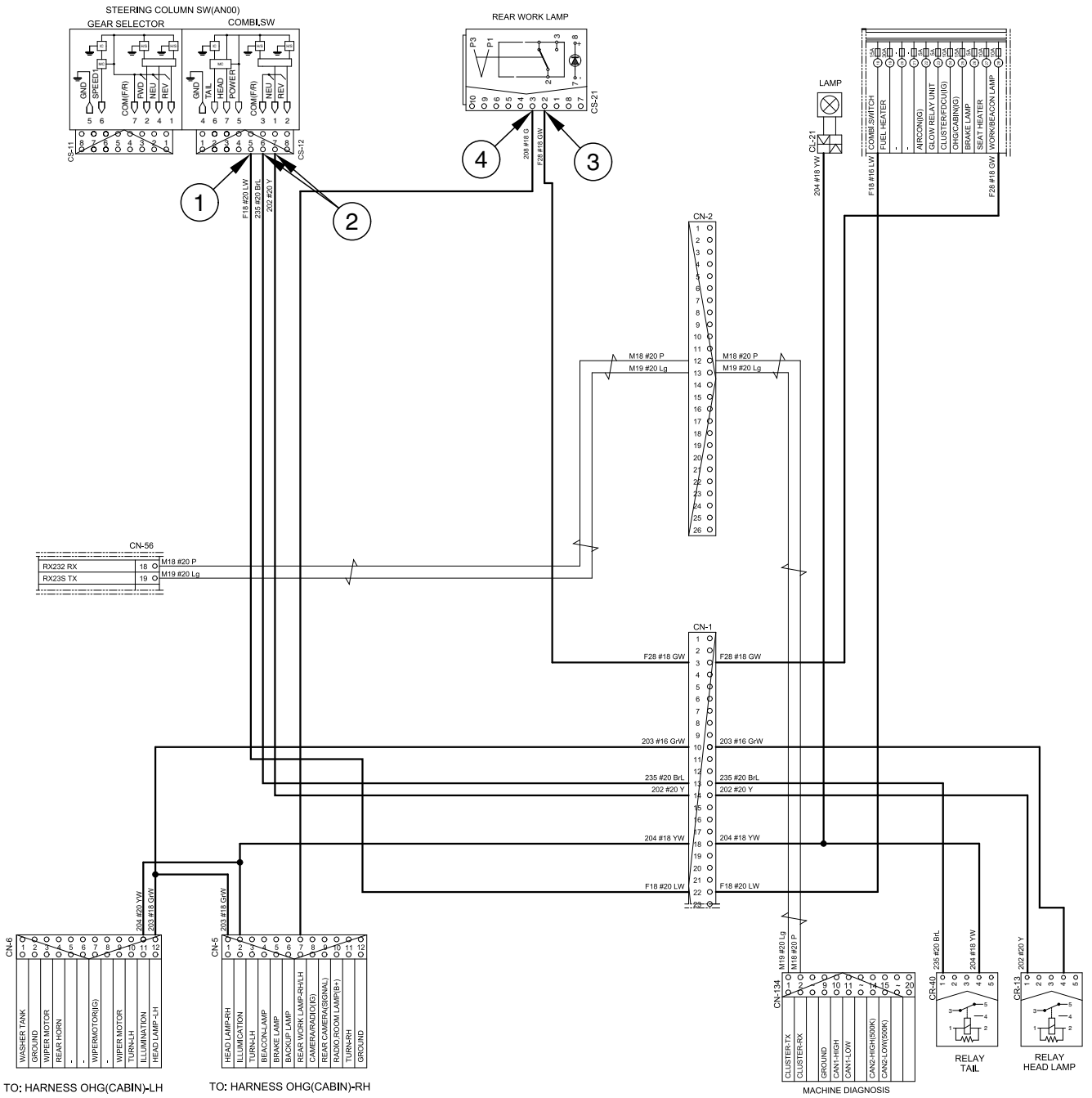
2) CHECK POINT

Engine	Start switch	Check point	Voltage
OFF	ON	① - GND (Multifunction switch input) ② - GND (Multifunction switch output) ③ - GND (Rear work light switch input) ④ - GND (Rear work light switch output) ⑤ - GND (High light) ⑥ - GND (Rear work light)	10~12.5V

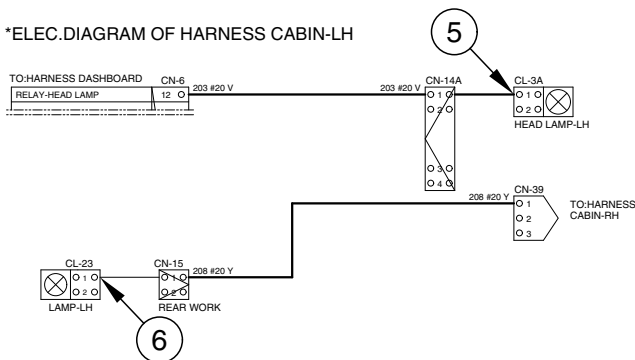
※ GND : Ground

※ The circuit diagram may differ from the equipment, so please check before a repair.

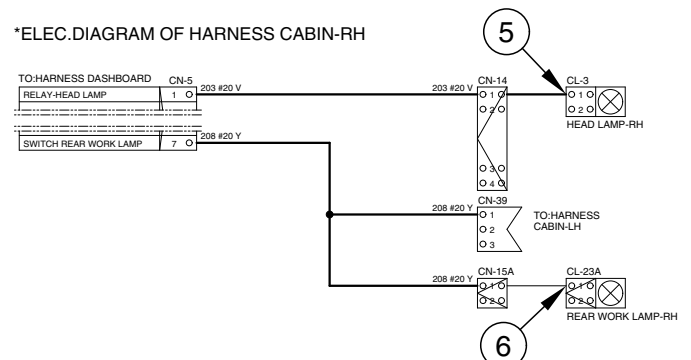
HEAD LIGHT AND REAR WORK LIGHT CIRCUIT



*ELEC. DIAGRAM OF HARNESS CABIN-LH



*ELEC. DIAGRAM OF HARNESS CABIN-RH



35D9VB7ES07

※ The circuit diagram may differ from the equipment, so please check before a repair.

6. FRONT WIPER AND WASHER CIRCUIT

1) OPERATING FLOW

Fuse box [CN-36 (No.25)] → I/conn [CN-1 (7)] → Front wiper & washer switch [CS-3 (3, 5)]
 → I/conn [CN-6 (7)] → Wiper motor [CN-21 (3)]

(1) Front wiper & washer switch ON (1st step)

Front wiper & washer switch [CS-3 (2)] → I/conn [CN-6 (3)] → Front wiper motor [CN-21 (4)]
 → Front wiper motor operating

(2) Front wiper & washer switch ON (2nd step)

→ Front wiper & washer switch ON [CS-3 (2)] → I/conn [CN-6 (3)]
 → Front wiper motor [CN-21 (3)] → Front wiper motor operating
 → Front wiper & washer switch [CS-3 (6)] → I/conn [CN-6 (1)]
 → Front washer tank [CN-22 (2)] → Front washer pump operating

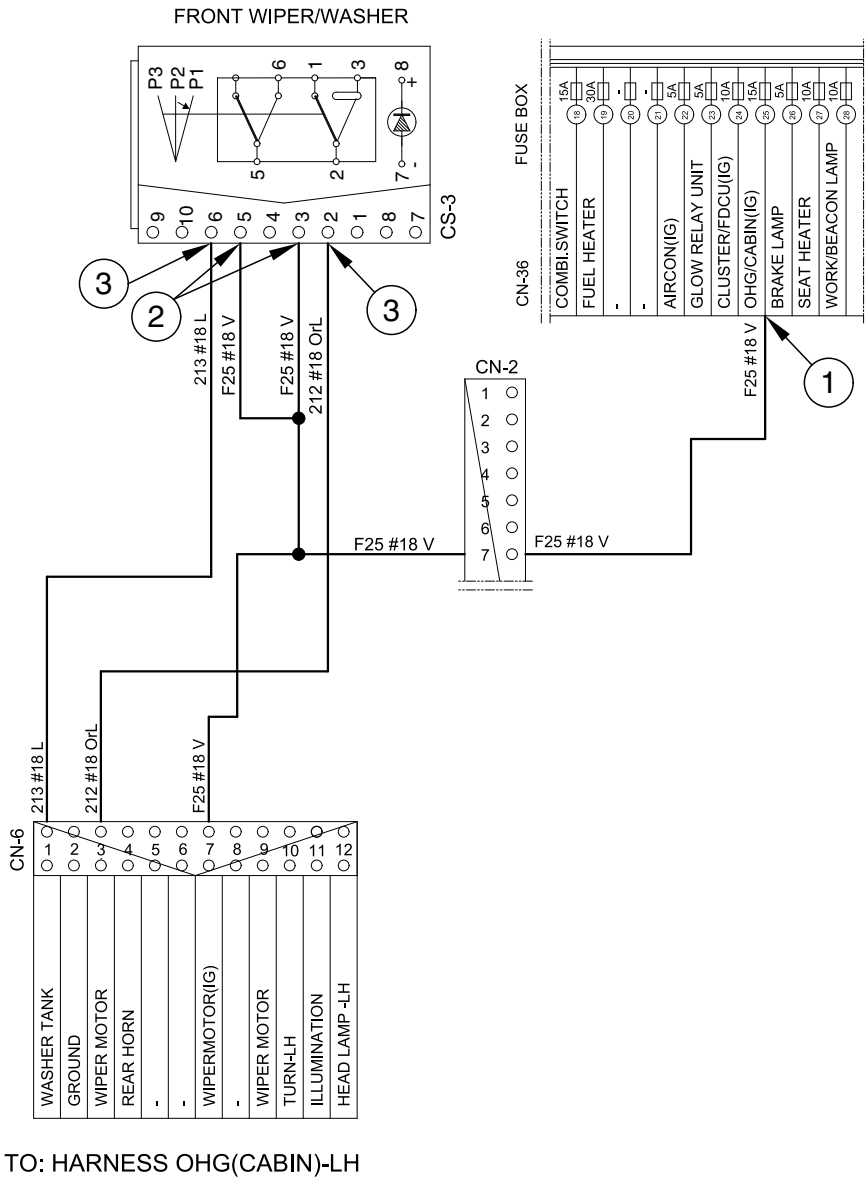
2) CHECK POINT

Engine	Start switch	Check point	Voltage
Stop	ON	① - GND (Fuse box No. 25) ② - GND (Front wiper & washer switch power input) ③ - GND (Front wiper & washer switch output) ④ - GND (Front wiper motor power input) ⑤ - GND (Front washer pump power input)	10~12.5V

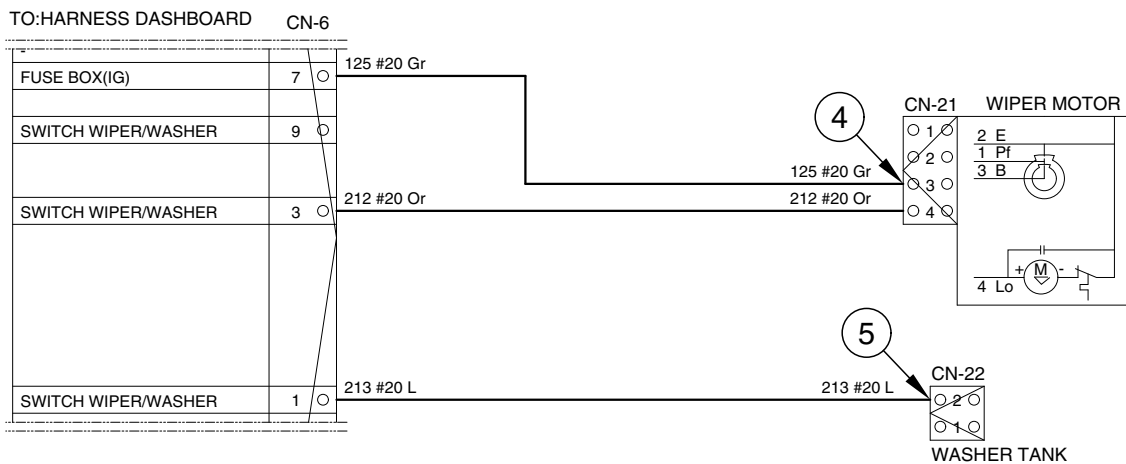
※ GND : Ground

※ The circuit diagram may differ from the equipment, so please check before a repair.

FRONT WIPER AND WASHER CIRCUIT



*ELEC.DIAGRAM OF HARNESS OHG(CABIN)-LH



35D9VB7ES08

※ The circuit diagram may differ from the equipment, so please check before a repair.

GROUP 3 COMPONENT SPECIFICATION

No	Part name	Qty	Specification														
1	Battery	1	12V × 100 AH RC : 190 min CCA : 850 A														
2	Work lamp	1	12V, 55W														
3	Work lamp (LED, opt)	1	12V, 22W														
4	License lamp (opt)	1	12V, 10W														
5	Rear combination lamp (LED)	2	12V, 1.6/0.2W (Stop/Tail) 12V, 1.1W (Turn) 12V, 1.1W (Back Up)														
6	Flasher lamp	2	12V, 0.5/2.2W (posit/turn signal)														
7	Beacon lamp (LED/opt)	1	12V, max. 0.800A														
8	Camera (opt)	1	12V, 1.32W														
9	Flasher unit relay (3P)	1	12V, 20A														
10	Relay (5P)	10	12V, 20A														
11	Flasher Unit	1	12V, 85 ± 10 CM, (23W + 23W) × 2 + 3W × 2														
12	Back buzzer	1	12V, 90 ± 5 dB, 60 ± 10 C/M														
13	Horn	1	12V, MAX 3.5A, 105 ~ 120 dB														
14	Cluster-CI	1	12V, 15W														
15	G-sensor (Mast angle) (opt)	1	12V, 5W														
16	Fuel level sender	1	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Float indicator</th> <th style="width: 15%;">E</th> <th style="width: 15%;">4/8</th> <th style="width: 15%;">F</th> </tr> </thead> <tbody> <tr> <td>Resistance (Ω)</td> <td>700</td> <td>350</td> <td>50</td> </tr> <tr> <td rowspan="2">Tolerance (Ω)</td> <td>-0%</td> <td rowspan="2">+5%</td> <td>+0%</td> </tr> <tr> <td>+5%</td> <td>-5%</td> </tr> </tbody> </table>	Float indicator	E	4/8	F	Resistance (Ω)	700	350	50	Tolerance (Ω)	-0%	+5%	+0%	+5%	-5%
Float indicator	E	4/8	F														
Resistance (Ω)	700	350	50														
Tolerance (Ω)	-0%	+5%	+0%														
	+5%		-5%														
17	Master switch (opt)	1	12V, 180A														
18	Gear selector switch	1	12V, 3.5A														
19	Combination switch	1	Direction : 12V, 3.5A Multi-function switch : 12V, 2A														
20	Rear worklamp switch (opt)	1	12V, 15A														
21	Hazard switch (opt)	1	12V, 15A														
22	Fuel warmer switch	1	12V, 15A														
23	Beacon lamp switch (opt)	1	12V, 15A														
24	Wiper/washer switch (opt)	1	12V, 15A														
25	Accelerator pedal	1	12V, input voltage 5Vdc, current 16~20mA														
26	Parking switch	1	12V, 15A														
27	OPSS buzzer	1	12V, 50mA max, 80~90dB														
28	Socket assy (opt)	1	12V, 10A														
29	Blue spot (LED, opt)	1	12V, 8W														

GROUP 4 CONNECTOR DESTINATION

1. FRAME HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	42	Dashboard Harness	936614-2	0-936429-2
CN-2	AMP	26	Dashboard Harness	1897009-2	936784-2
CN-3	KET	3	Dashboard Harness	MG631984	MG652290-5
CN-18	AMP	2	Socket (12V) Harness	174352-2	368121-1
CN-36	QPL	-	Fuse Box Main Ass'y	21HN-55010	-
CN-37	KET	8	Knob Gear Selector	-	MG640341
CN-43	KET	2	Aircon Harness	-	MG652934-5
CN-44	KET	1	Aircon Harness	-	MG640280
CN-45	HCE	-	Start Motor	-	-
CN-48	LITTLE FUSE	-	MIDI FUSE HOLDER	-	-
CN-61	HCE	-	Fuel Pump	-	-
CN-65	KET	2	Backup Alarm	-	MG640322
CN-71	DEUTSCH	2	Parking Valve	DT06-2S	
CN-87	AMP	3	Cutoff Sol	963040-3	-
CN-91	DEUTSCH	6	Seat Switch	DT06-6S	-
CN-96	DELPHI	2	Fuel Heater	10737780	-
CN-97	DELPHI	2	Fuel Warmer	15300027	-
CN-122	DEUTSCH	2	FWD SOL 2	DT06-2S	-
CN-123	DEUTSCH	2	REV SOL	DT06-2S	-
CN-124	DEUTSCH	2	FWD SOL 1	DT06-2S	-
CN-134	KET	20	Machine Diagnosis	MG652863	MG632867
CN-144	AMP	6	Accel Pedal	174262-2	-
CN-151	AMP	36	HMC E/G Harness	-	1743062-2
CN-152	AMP	36	HMC E/G Harness	-	1743062-3
CN-153	KUM	6	HMC E/G Harness	PB625-06027	-
CN-154	KET	1	HMC E/G Harness	MG613801-5	-
CN-156	MOLEX	16	ECU Diagnosis	51115-1601	68154-0021
CN-250	KET	8	EXT Harness	MG633061	MG640341
CN-J1	KET	20	Joint Connector #1	MG655633	-
· Relay					
CR-24	FCI	6	Glow Controller	-	F162210
· Switch					
CS-11	AMP	3	F.N.R Controller A	-	174357-2
CS-13	AMP	6	F.N.R Controller B	174264-2	-
CS-53	KET	2	Tilt Lever Switch	MG610320	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
· Lamp					
CL-21	KET	1	License Lamp	ST730018-3	ST750036-3
· Sensor, sender					
CD-1	DEUTSCH	4	Hyd PS/Temp Sensor	DT06-4S	-
CD-2	KET	3	Feul Sender	MG610327	-
CD-10	KET	1	Air-Cleaner Switch	ST730057-2	-
CD-29	DEUTSCH	3	TM PS/TEMP Sensor	DT06-3S	-
CD-38	AMP	3	WIF	-	936292-2
CD-40	AMP	3	TM Speed Sensor	963040-3	-
CD-60	AMP	2	Thermo Switch	282080-1	-
CD-70	DEUTSCH	3	Load Sensor	DT06-3S	-
CD-77	KET	3	Diff Pressure Sensor	MG64453-5	-
CD-78	DELPHI	2	Exhaust Gas Temp Sensor (DPF T5)	33401218	-
CD-79	DELPHI	2	Exhaust Gas Temp Sensor (DOC T4)	33401219	-
· Diode					
DO-01	AMP	2	Diode	174352-2	-

2. FRAME HARNESS (FIGERTIP, OPTION)

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	42	Dashboard Harness	936614-2	0-936429-2
CN-2	AMP	26	Dashboard Harness	1897009-2	936784-2
CN-3	KET	3	Dashboard Harness	MG631984	MG652290-5
CN-18	AMP	2	Socket (12V) Harness	174352-2	368121-1
CN-36	QPL	-	Fuse Box Main Ass'y	21HN-55010	-
CN-43	KET	2	Aircon Harness	-	MG652934-5
CN-44	KET	1	Aircon Harness	-	MG640280
CN-45	HCE	-	Start Motor	-	-
CN-48	LITTLE FUSE	-	MIDI FUSE HOLDER	-	-
CN-61	HCE	-	Fuel Pump	-	-
CN-65	KET	2	Backup Alarm	-	MG640322
CN-71	DEUTSCH	2	Parking Valve	DT06-2S	-
CN-91	DEUTSCH	6	Seat Switch	DT06-6S	-
CN-96	DELPHI	2	Fuel Heater	10737780	-
CN-97	DELPHI	2	Fuel Warmer	15300027	-
CN-122	DEUTSCH	2	FWD SOL 2	DT06-2S	-
CN-123	DEUTSCH	2	REV SOL	DT06-2S	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-124	DEUTSCH	2	FWD SOL 1	DT06-2S	-
CN-134	KET	20	Machine Diagnosis	MG652863	MG632867
CN-144	AMP	6	Accel Pedal	174262-2	-
CN-151	AMP	36	HMC E/G Harness	-	1743062-2
CN-152	AMP	36	HMC E/G Harness	-	1743062-3
CN-153	KUM	6	HMC E/G Harness	PB625-06027	-
CN-154	KET	1	HMC E/G Harness	MG613801-5	-
CN-156	MOLEX	16	ECU Diagnosis	51115-1601	68154-0021
CN-250	KET	8	EXT Harness	MG633061	MG640341
CN-412	AMP	8	Armrest Harness	-	174984-2
CN-413	AMP	8	Armrest Harness	174982-2	-
CN-417	KET	8	MCV Harness	MG610339	-
CN-J1	KET	20	Joint Connector #1	MG655633	-
· Relay					
CR-24	FCI	6	Glow Controller	-	F162210
· Lamp					
CL-21	KET	1	License Lamp	ST730018-3	ST750036-3
· Sensor, sender					
CD-1	DEUTSCH	4	Hyd PS/Temp Sensor	DT06-4S	-
CD-2	KET	3	Feul Sender	MG610327	-
CD-10	KET	1	Air-Cleaner Switch	ST730057-2	-
CD-29	DEUTSCH	3	TM PS/TEMP Sensor	DT06-3S	-
CD-38	AMP	3	WIF	-	936292-2
CD-40	AMP	3	TM Speed Sensor	963040-3	-
CD-60	AMP	2	Thermo Switch	282080-1	-
CD-70	DEUTSCH	3	Load Sensor	DT06-3S	-
CD-77	KET	3	Diff Pressure Sensor	MG64453-5	-
CD-78	DELPHI	2	Exhaust Gas Temp Sensor (DPF T5)	33401218	-
CD-79	DELPHI	2	Exhaust Gas Temp Sensor (DOC T4)	33401219	-
· Diode					
DO-01	AMP	2	Diode	174352-2	-

3. DASHBOARD HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	42	Frame Harness	0-936421-2	0-936615-2
CN-2	AMP	26	Frame Harness	-	1897013-2
CN-3	KET	3	Frame Harness	MG642292-5	-

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-1	AMP	42	Frame Harness	0-936421-2	0-936615-2
CN-2	AMP	26	Frame Harness	-	1897013-2
CN-3	KET	3	Frame Harness	MG642292-5	-
CN-5	KET	12	OHG (Cabin)-RH Harness	MG630418	MG640348
CN-6	KET	12	OHG (Cabin)-LH Harness	MG630418	MG640348
CN-19	AMP	4	G Sensor Harness	174257-2	368121-1
CN-25	MOLEX	2	Horn	35825-0211	-
CN-49	AMP	2	Blue Spot	174352-2	-
CN-54	AMP	32	FDCU	344111-1	-
CN-55	DEUTSCH	6	FMS Harness	DT06-6S	-
CN-56	MOLEX	73	Cluster CI	34566-0103	-
CN-113	KET	2	Warning Buzzer	MG610320	-
CN-J1	KET	20	Joint Connector #1	MG655633	-
CN-J2	KET	20	Joint Connector #2	MG621725-5	-
· Relay					
CR-11	DAEDONG	3	Flasher Unit	312 GIHUNG 3P	-
· Switch					
CS-3	CALRING (VC2-01)	10	Wiper Switch	21HN-56300	-
CS-5	HCE	-	Horn Switch	-	-
CS-11	AMP	8	Gear Selector	174982-2	-
CS-12	AMP	8	Combi Switch	-	174984-2
CS-17	CALRING (VC2-01)	10	Parking Switch (Rocker)	21HN-56300	-
CS-21	CALRING (VC2-01)	10	Reat Work Lamp Switch	21HN-56300	-
CS-23	CALRING (VC2-01)	10	Becon Lamp Switch	21HN-56300	-
CS-41	CALRING (VC2-01)	10	Hazard Switch	21HN-56300	-
CS-46	KET	2	Start Key	MG610281	-
	KET	2		-	MG620282
CS-75	CLRING (VC2-01)	10	Rgen Switch	21HN-56300	-
· Pressure switch					
CD-26	AMP	1	Parking PS Switch	171809-2	-
CD-70	AMP	3	Brake Switch	174357-2	-

GROUP 5 TROUBLESHOOTING

Trouble symptom	Probable cause	Remedy
Lamps dimming even at maximum engine speed.	· Faulty wiring.	· Check for loose terminal and disconnected wire.
Lamps flicker during engine operation.	· Improper belt tension.	· Adjust belt tension.
Charge lamp does not light during normal engine operation.	· Charge lamp defective. · Faulty wiring.	· Replace. · Check and repair.
Alternator makes abnormal sounds.	· Alternator defective.	· Replace.
Starting motor fails to run.	· Faulty wiring. · Insufficient battery voltage.	· Check and repair. · Recharge battery.
Starting motor pinion repeats going in and out.	· Insufficient battery voltage.	· Recharge battery.
Excessively low starting motor speed.	· Insufficient battery voltage. · Starting motor defective.	· Recharge battery. · Replace
Starting motor comes to a stop before engine starts up.	· Faulty wiring. · Insufficient battery voltage.	· Check and repair. · Recharge battery.
Heater signal does not become red.	· Faulty wiring. · Glow plug damaged.	· Check and repair. · Replace
Engine oil pressure caution lamp does not light when engine is stopped (with starting switch left in "ON" position).	· Caution lamp defective. · Caution lamp switch defective.	· Replace · Replace