

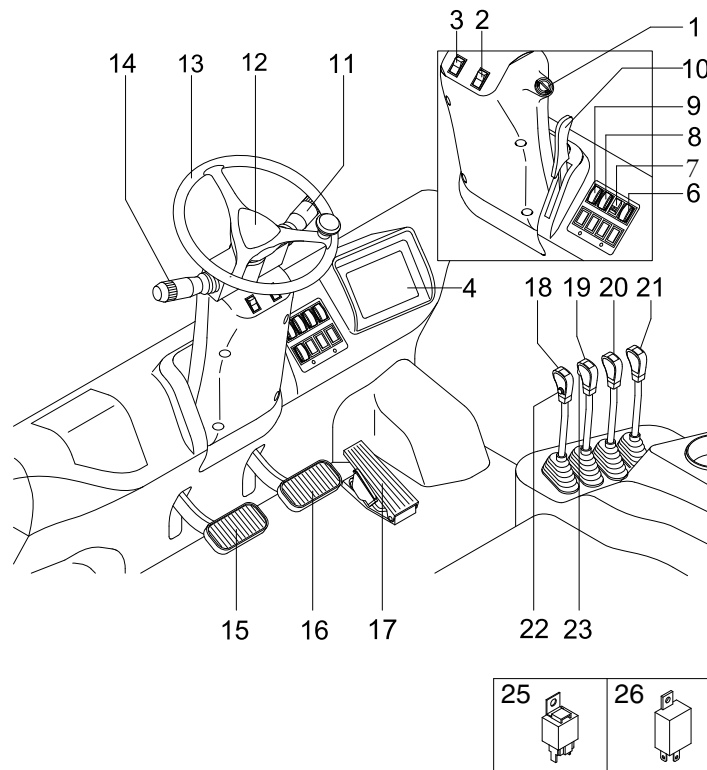
SECTION 7 ELECTRICAL SYSTEM

Group 1	Component location	7-1
Group 2	Electrical circuit	7-3
Group 3	Component specification	7-20
Group 4	Connector destination	7-21
Group 5	Troubleshooting	7-27

SECTION 7 ELECTRICAL SYSTEM

GROUP 1 COMPONENT LOCATION

1. LOCATION 1

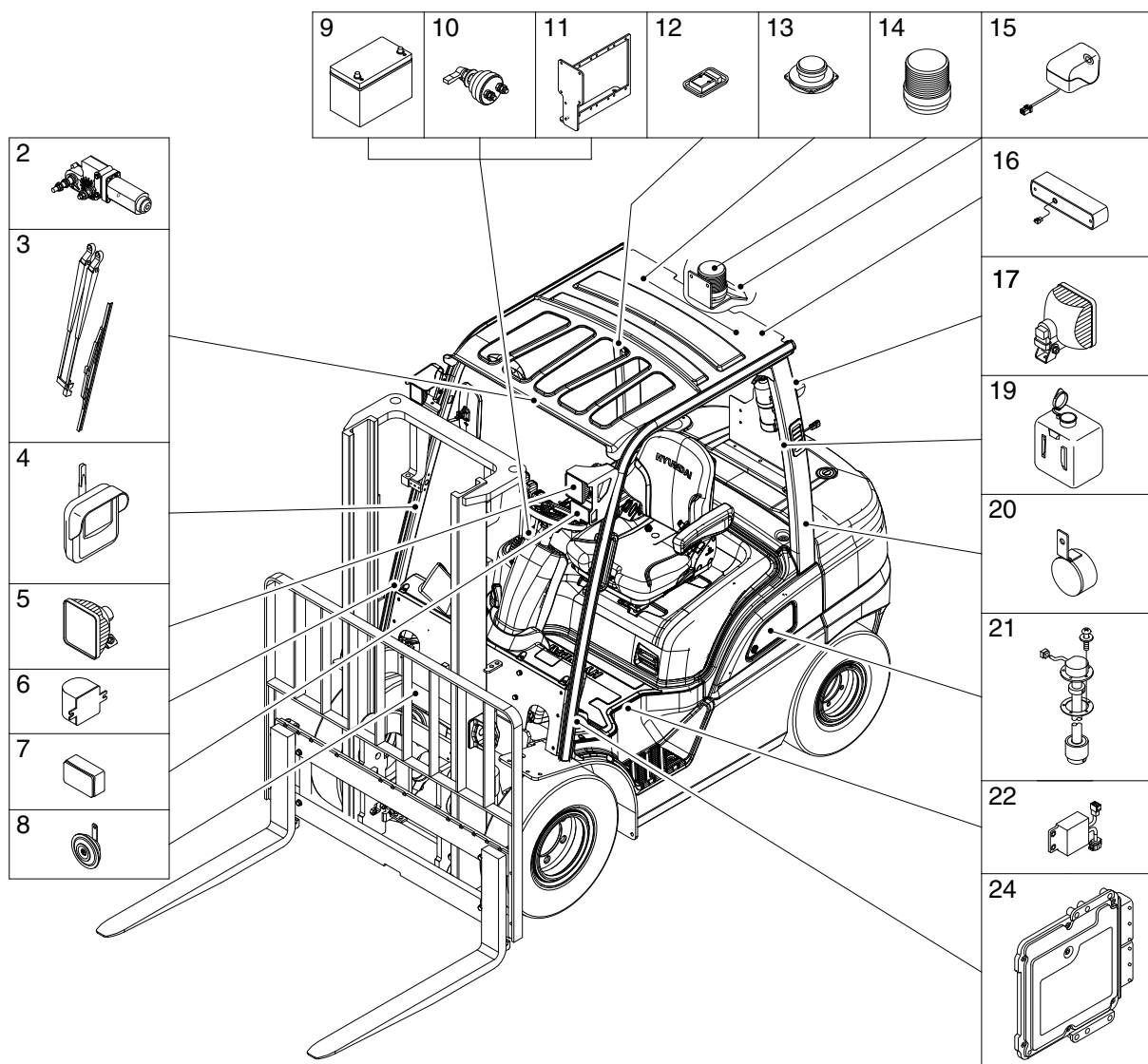


25D9HDI7ES08

1 Start switch	10 Steering wheel lock lever	18 Lift lever
2 Parking brake switch	11 Turn signal switch	19 Tilt lever
3 Hazard lamp switch (opt)	12 Horn button	20 Attach lever 1 (opt)
4 Cluster	13 Steering wheel	21 Attach lever 2 (opt)
6 Front wiper/washer switch (opt)	14 Forward-reverse lever	22 FNR and horn switch (opt)
7 Clamp release interlock indicator (opt)	15 Inching pedal	23 Auto tilt leveling switch (opt)
8 Main light switch	16 Brake pedal	25 Power relay
9 Engine mode switch	17 Accelerator pedal	26 Flasher unit

△ Familiarize yourself with the controls and follow safe operating procedures.

2. LOCATION 2



25D9HD17ES01

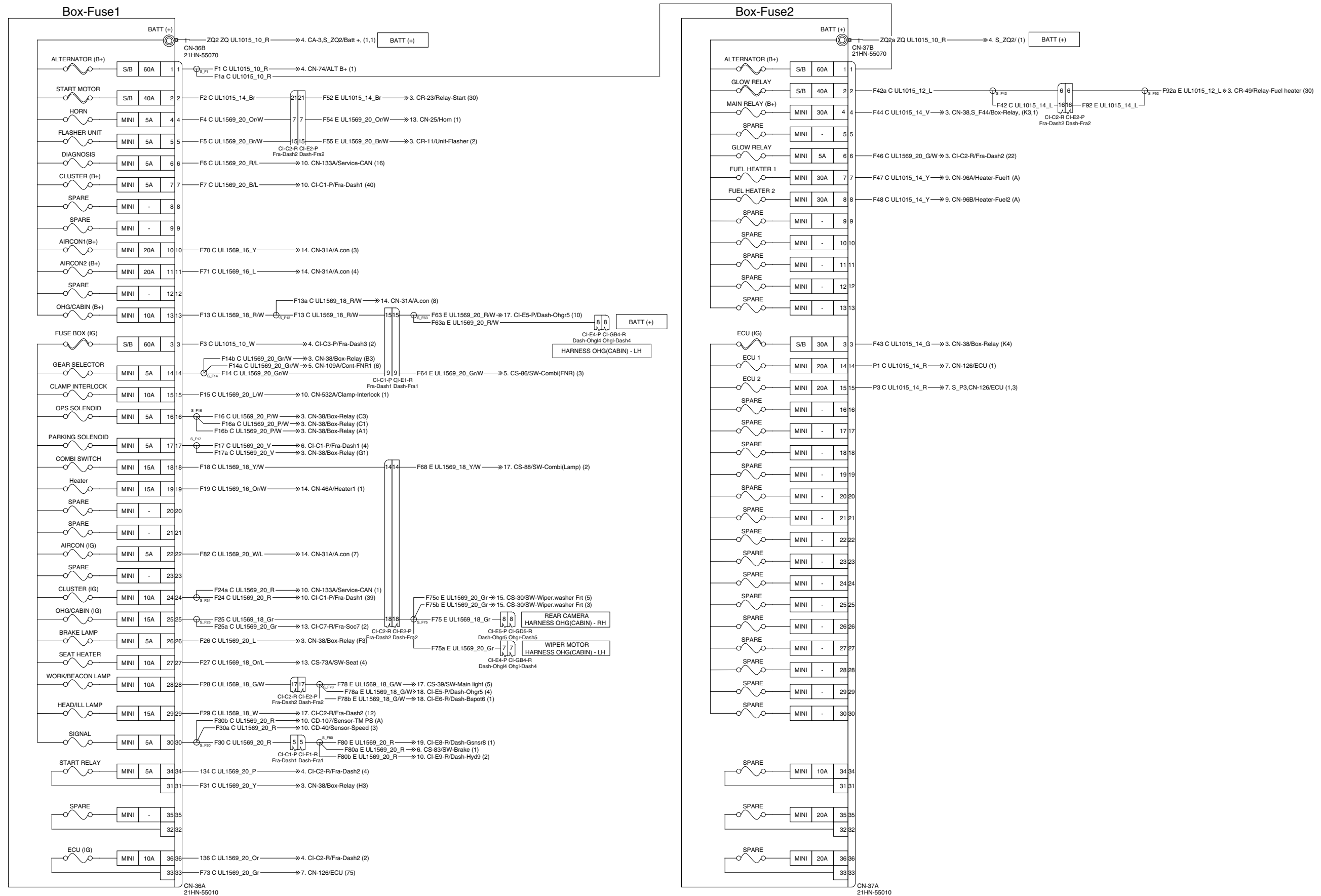
- | | | |
|-------------------------|------------------------|--------------------------|
| 2 Wiper motor (opt) | 9 Battery | 16 Rear combination lamp |
| 3 Wiper arm&blade (opt) | 10 Master switch (opt) | 17 Work lamp (opt) |
| 4 Monitor (opt) | 11 Fuse&Relay box | 19 Washer tank (opt) |
| 5 Head lamp | 12 Room lamp (opt) | 20 Back buzzer (opt) |
| 6 Angle sensor (opt) | 13 Speaker (opt) | 21 Fuel sender |
| 7 Turn signal lamp | 14 Beacon lamp (opt) | 22 FNR controller (opt) |
| 8 Horn | 15 Rear camera (opt) | 24 ECU |

GROUP 2 ELECTRIC CIRCUIT

1. CODES IN ELECTRIC CIRCUIT

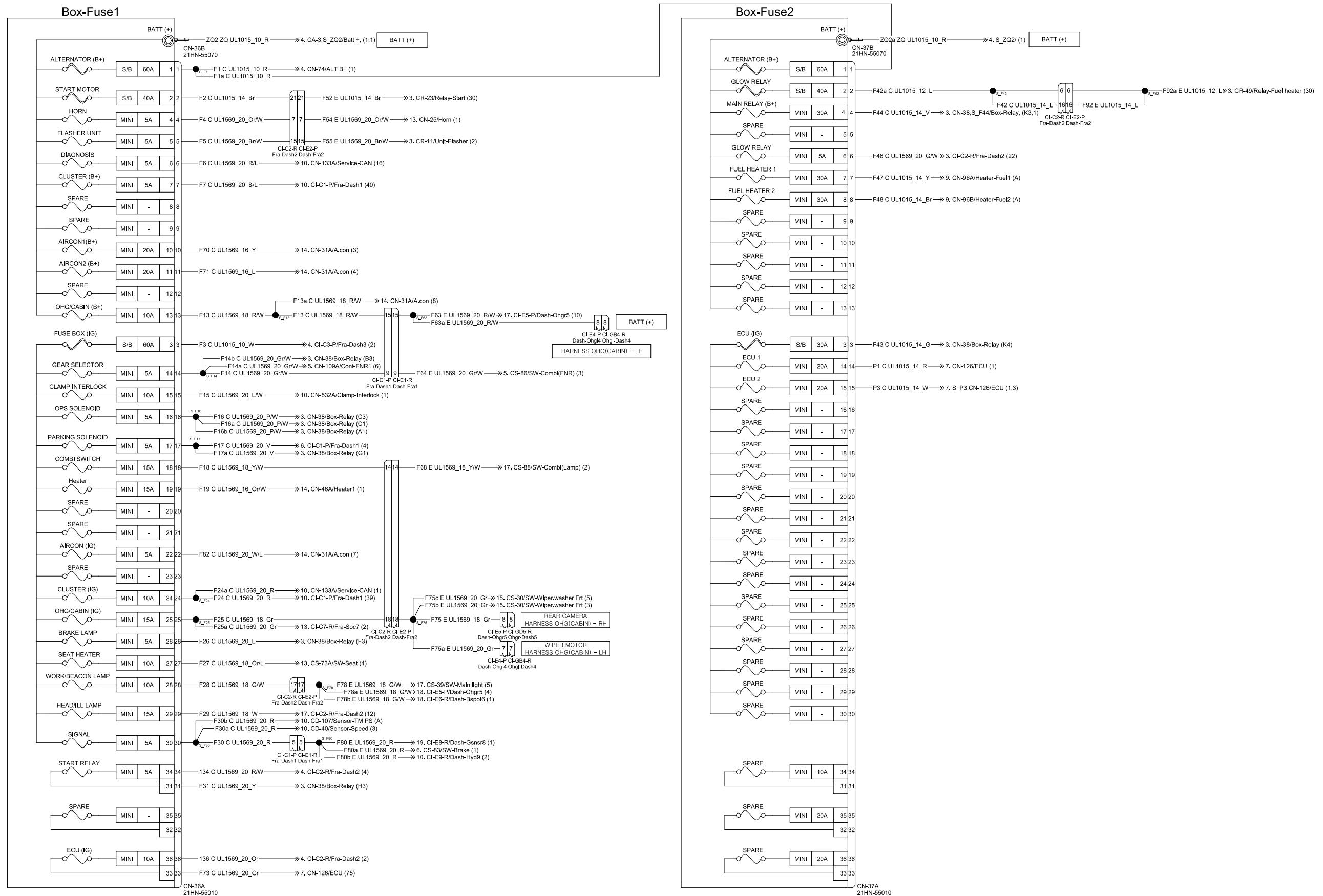
Item code	Part name
C	Haress-Frame (Manual)
E	Harness-Dashboard
FA	Harness-Cabin LH (Cab)
FB	Harness-Cabin RH (Cab)
FC	Harness-Cabin RH (Cab, Partial)
GB	Harness-OHG LH (LED)
GD	Harness-OHG RH (LED)
JE	Harness-Blue Spot
ME	Harness-RMCU
MH	Harness-Monitor
O	Harness-G sensor
PB	Harness-Hydro sensor
QE	Harness-Tilt lever SW
R	Harness-Heater
S	Harness-Air con
V	Harness-Socket
ZP	Cable-Batt (-)
ZQ	Cable-S.Motor
ZS	Cable-M.SW (Batt)
ZT	Cable-M.SW (GND)

2. FUSE BOX (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)

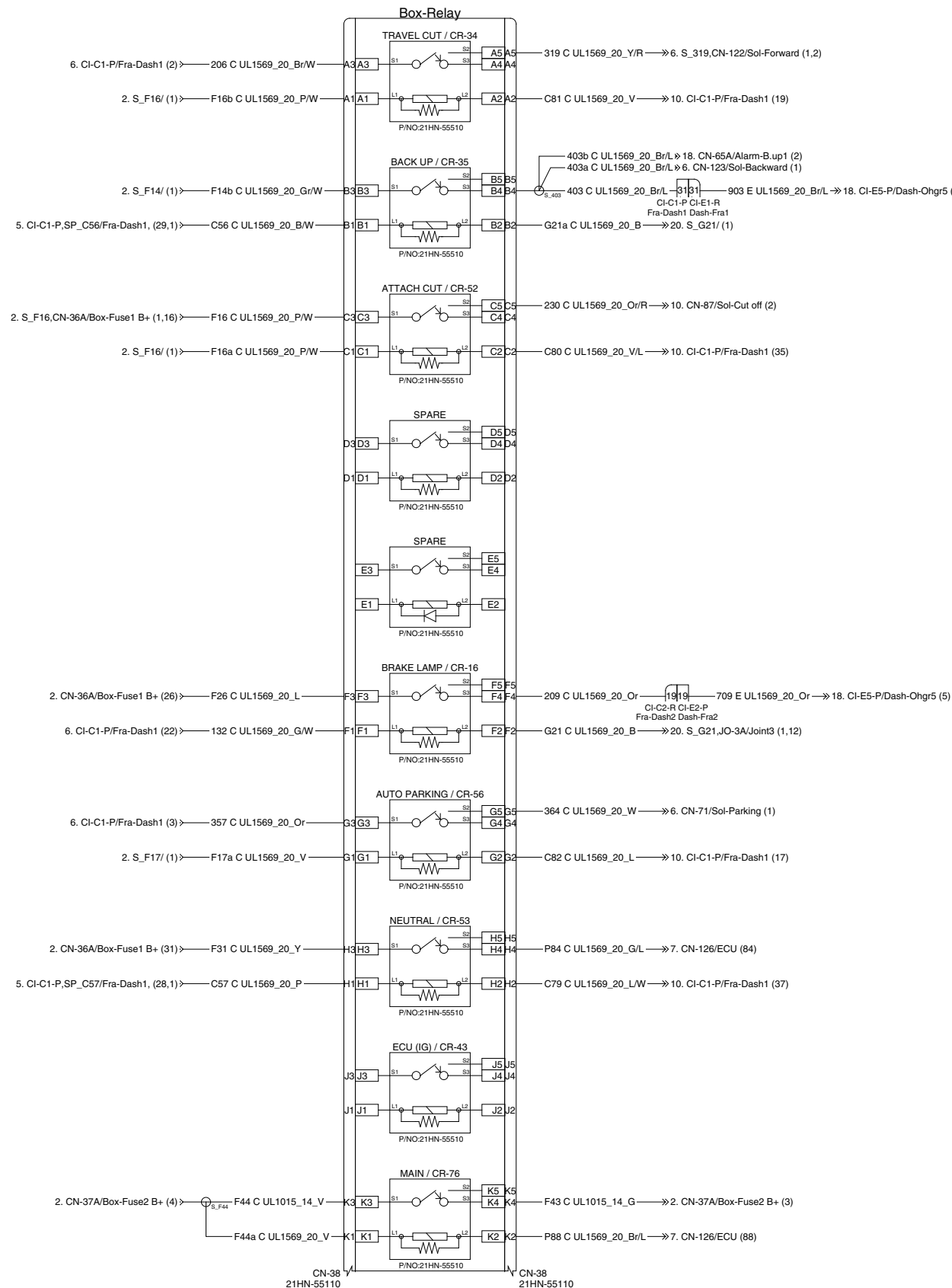


※ The circuit diagram may differ from the equipment, so please check before a repair.

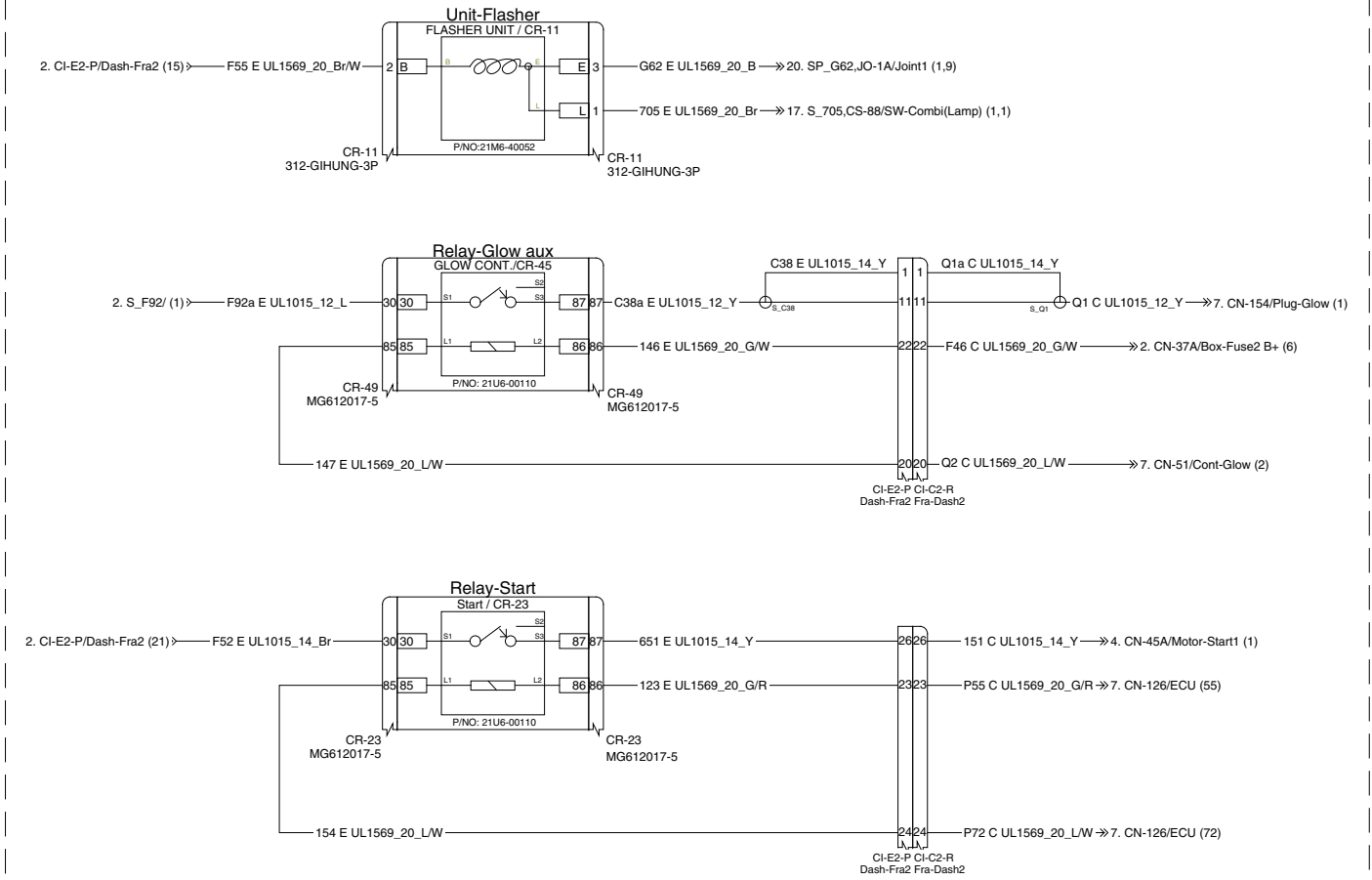
FUSE BOX (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



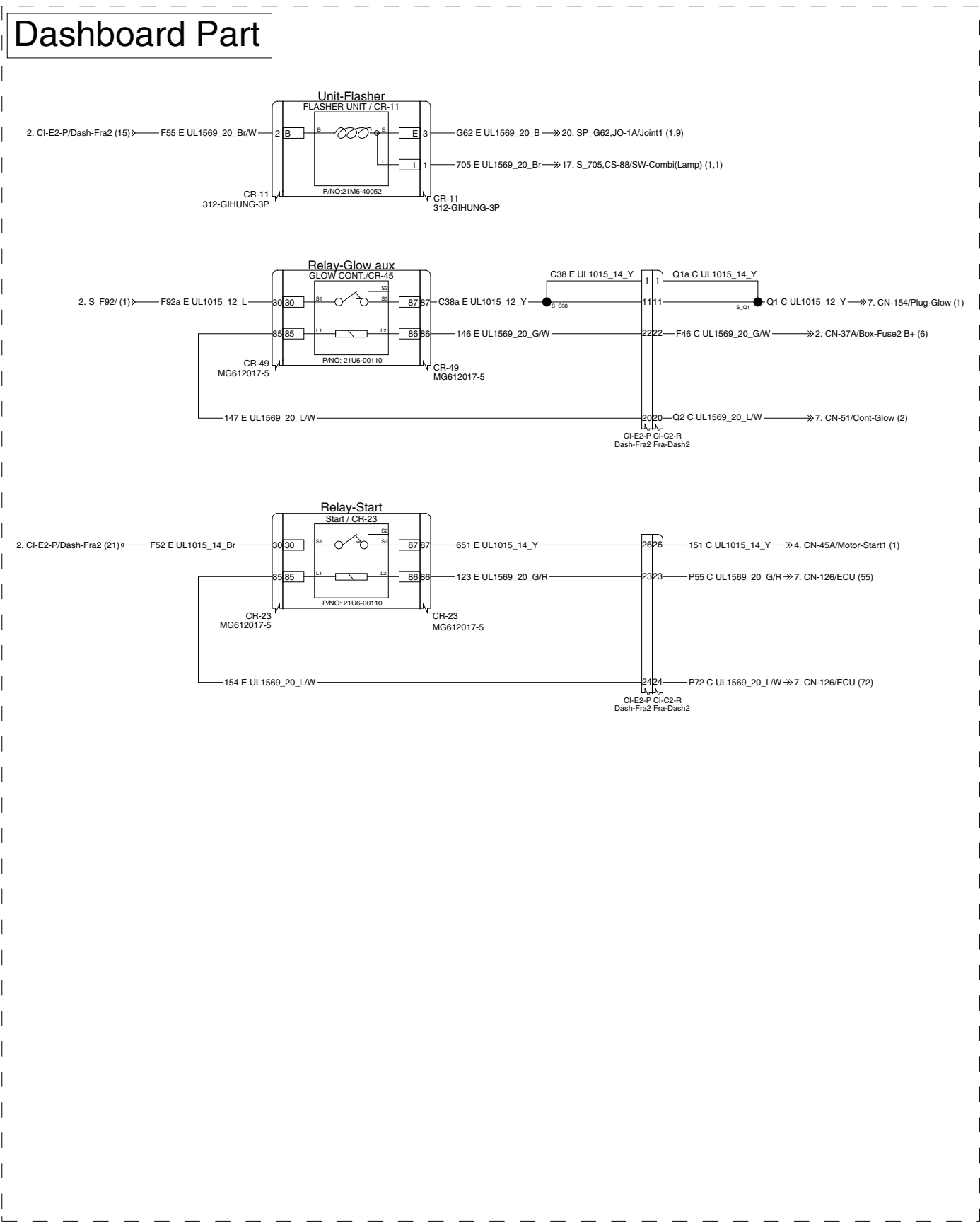
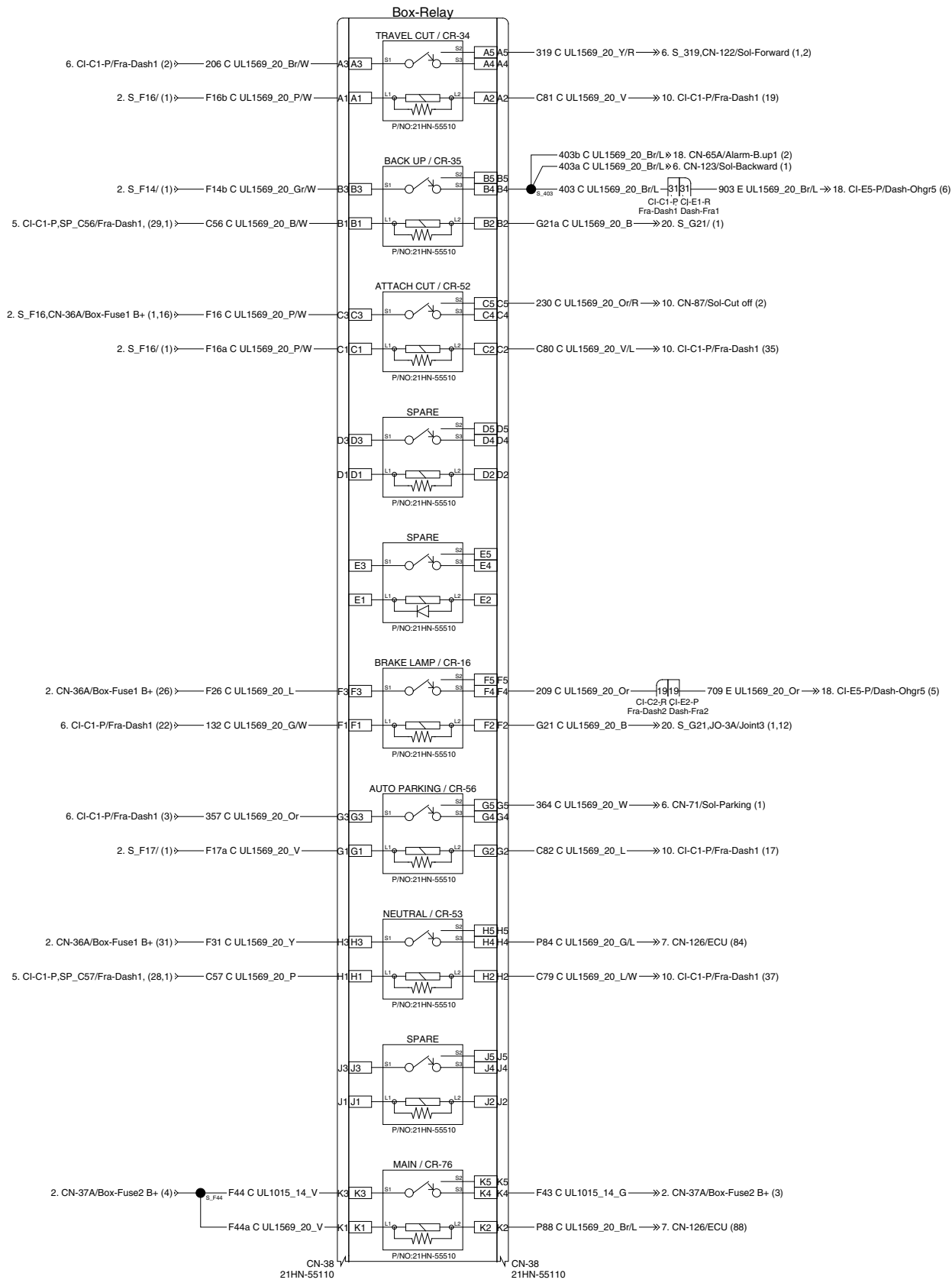
3. RELAY BOX (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



Dashboard Part

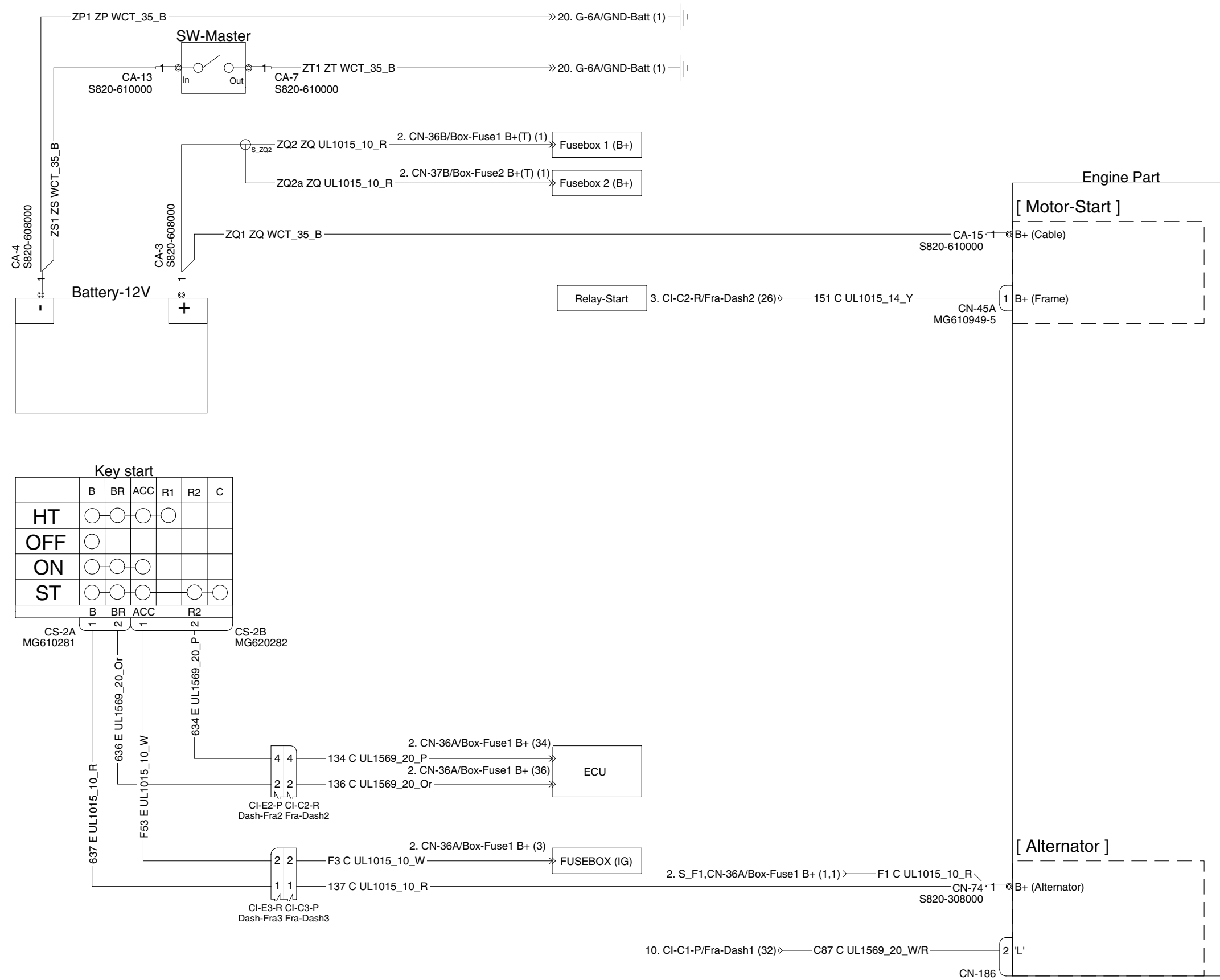


RELAY BOX (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



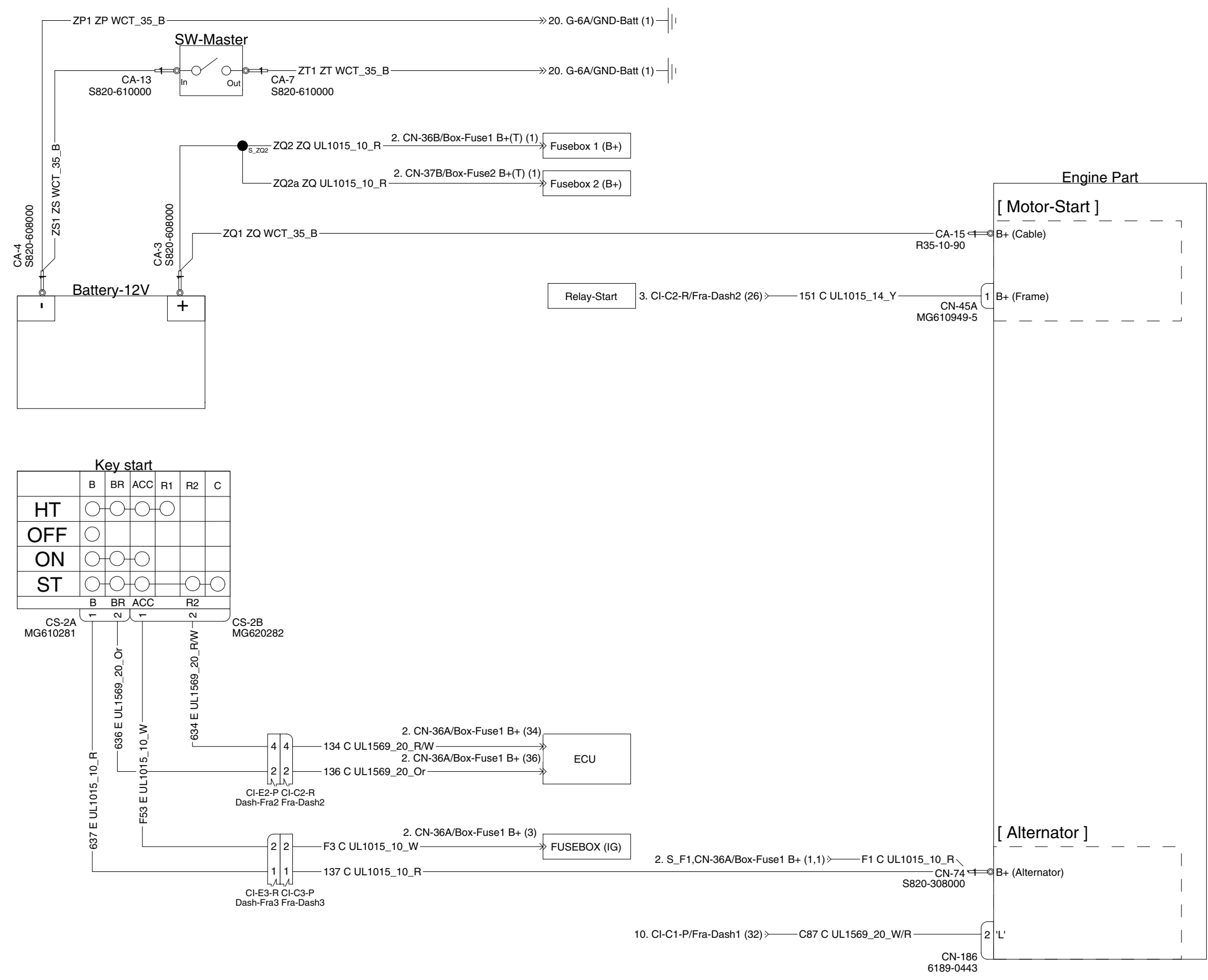
※ The circuit diagram may differ from the equipment, so please check before a repair.

4. START (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



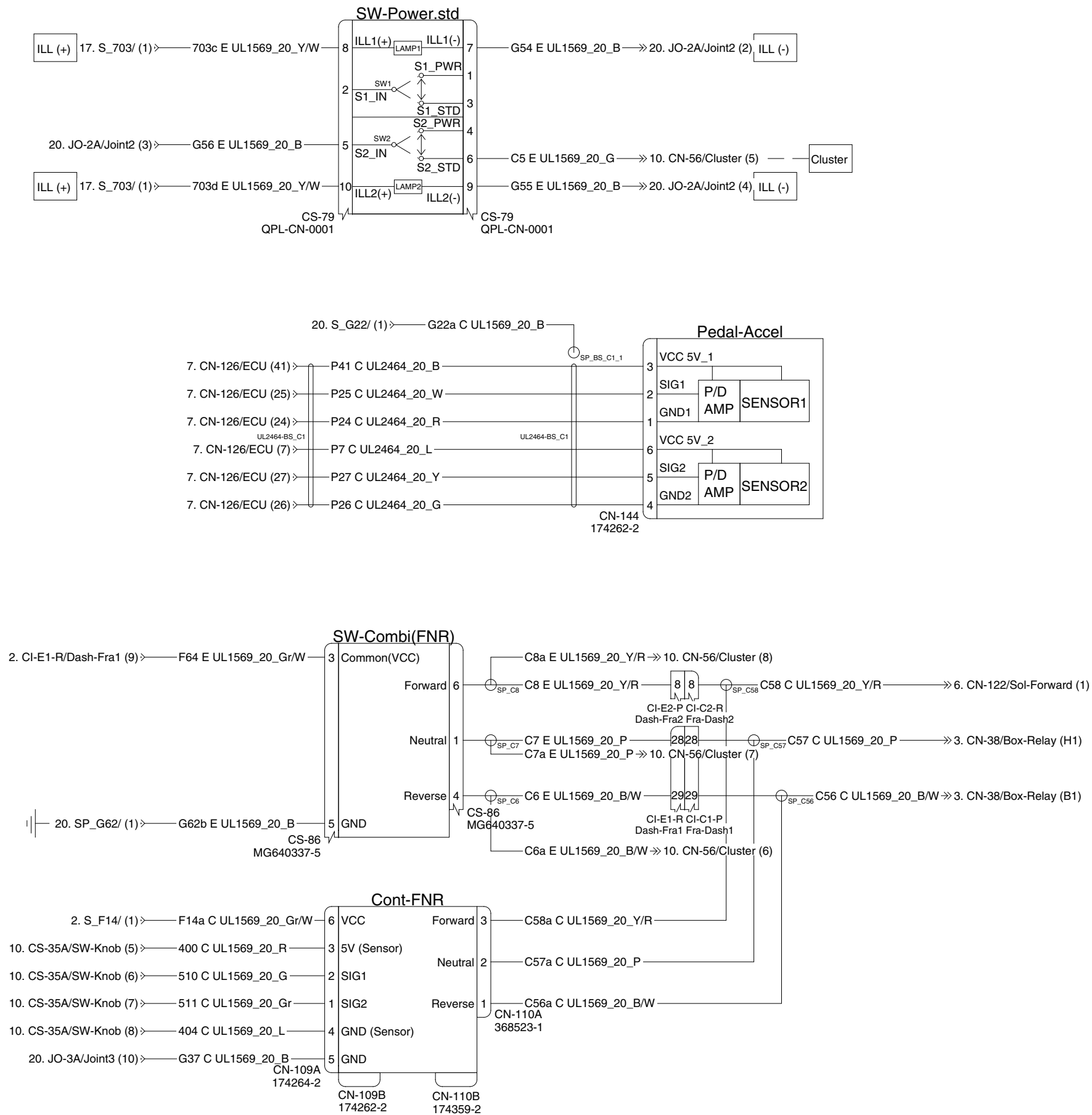
※ The circuit diagram may differ from the equipment, so please check before a repair.

START (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



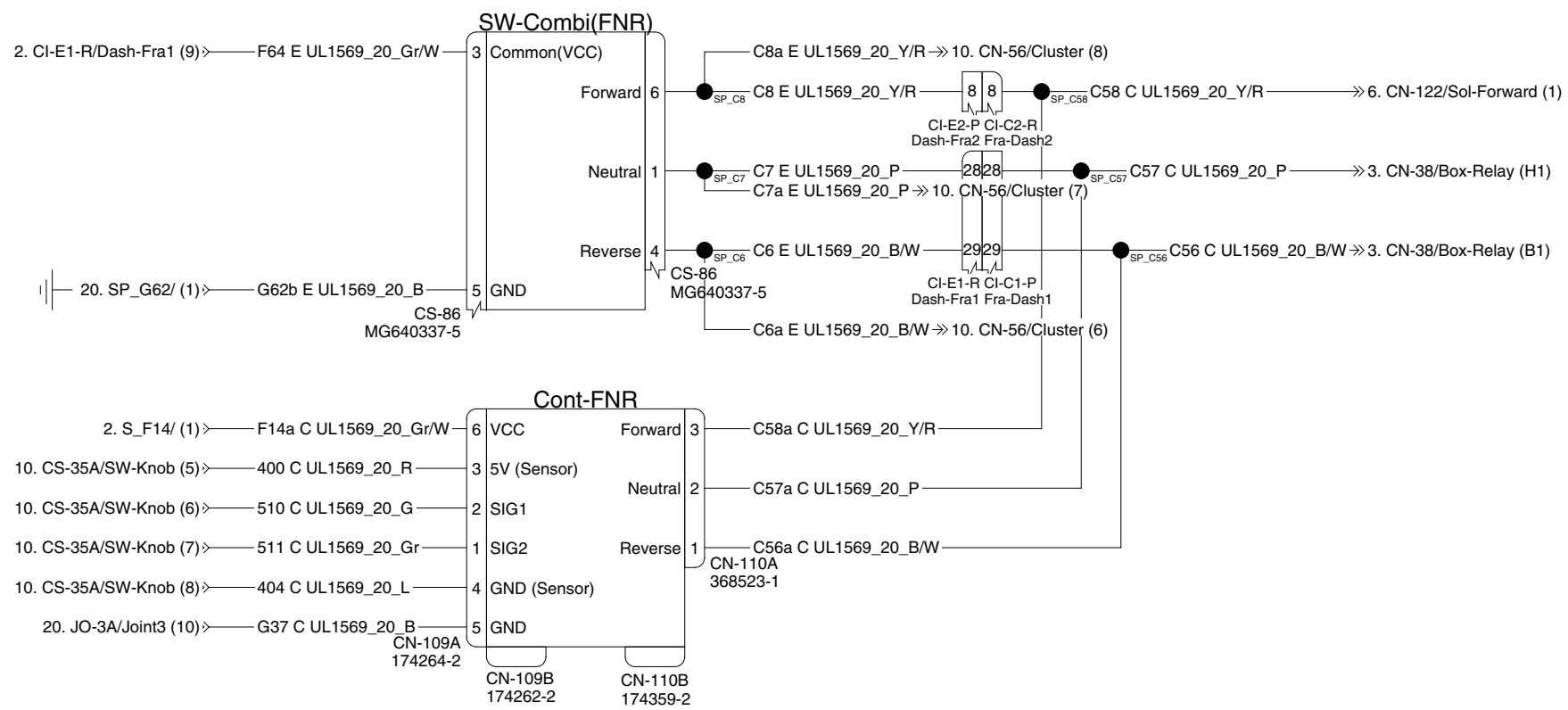
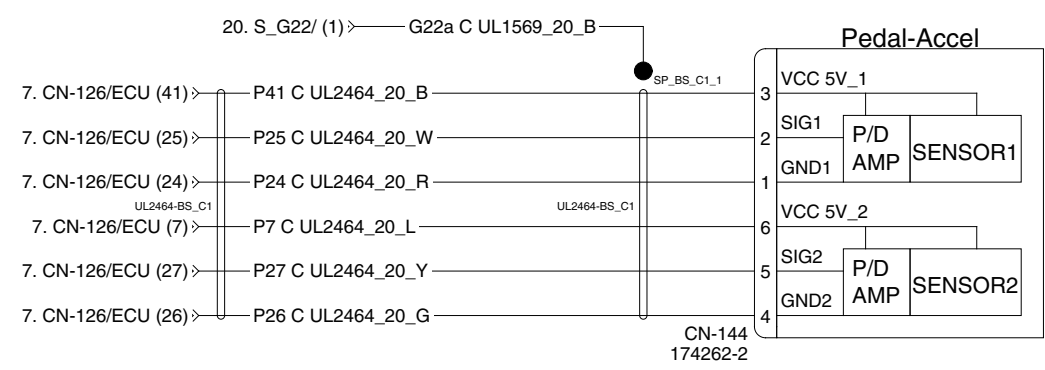
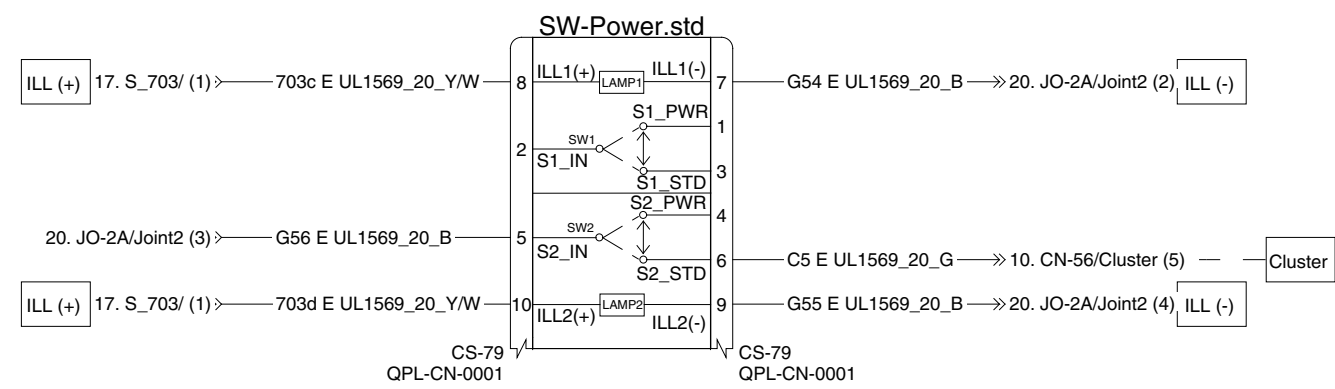
※ The circuit diagram may differ from the equipment, so please check before a repair.

5. DRIVE (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



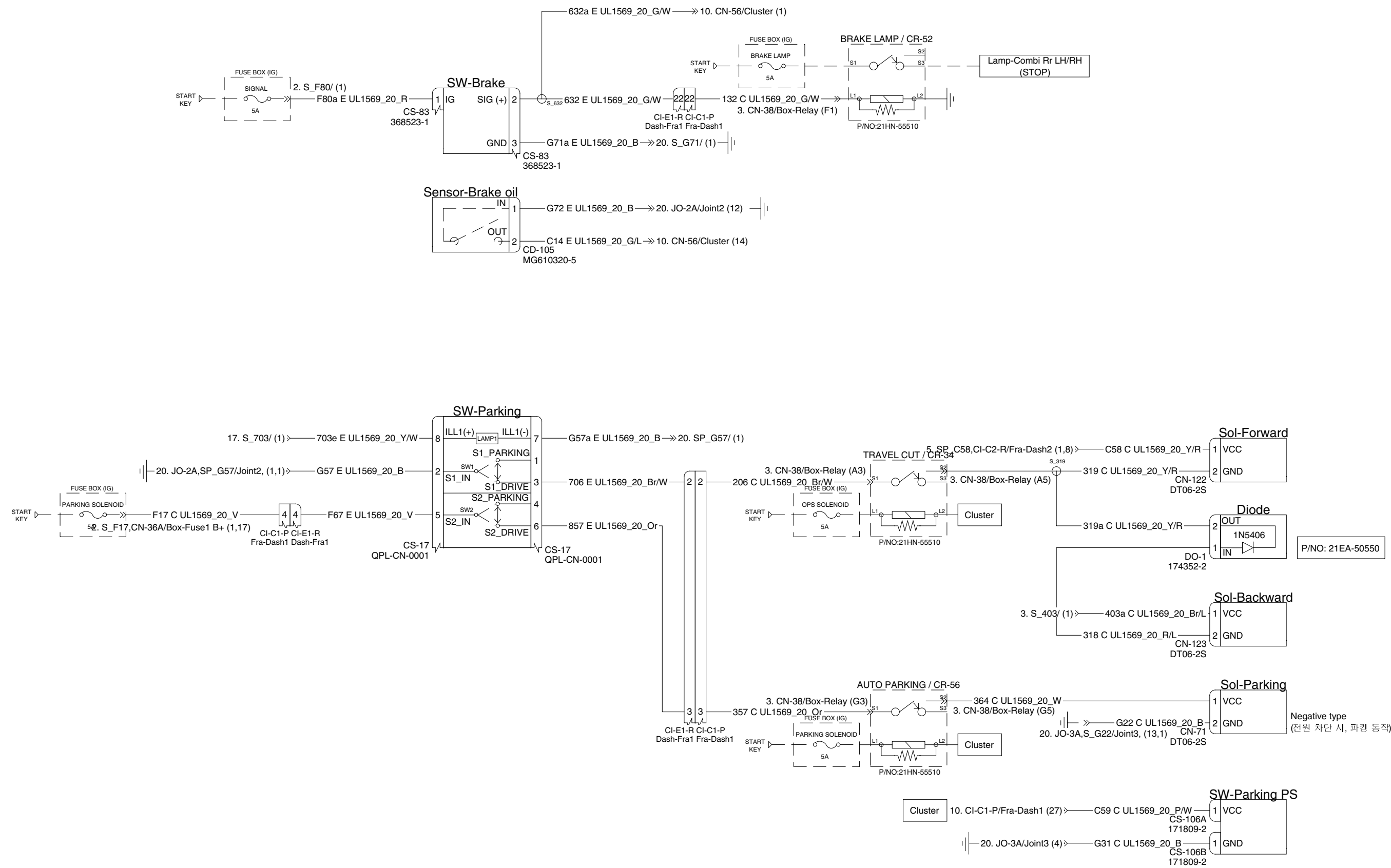
※ The circuit diagram may differ from the equipment, so please check before a repair.

DRIVE (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



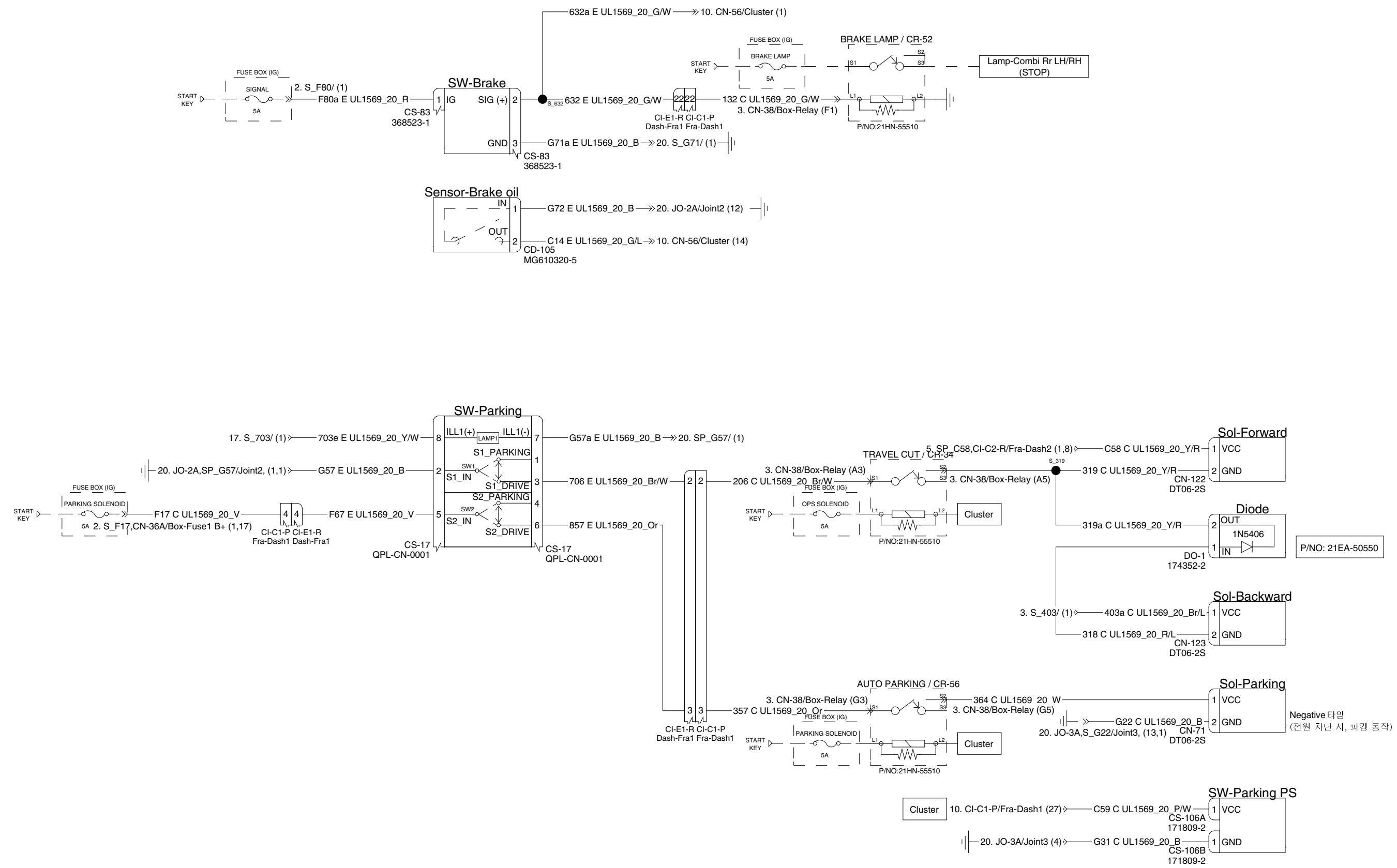
※ The circuit diagram may differ from the equipment, so please check before a repair.

6. PARKING, BRAKE (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



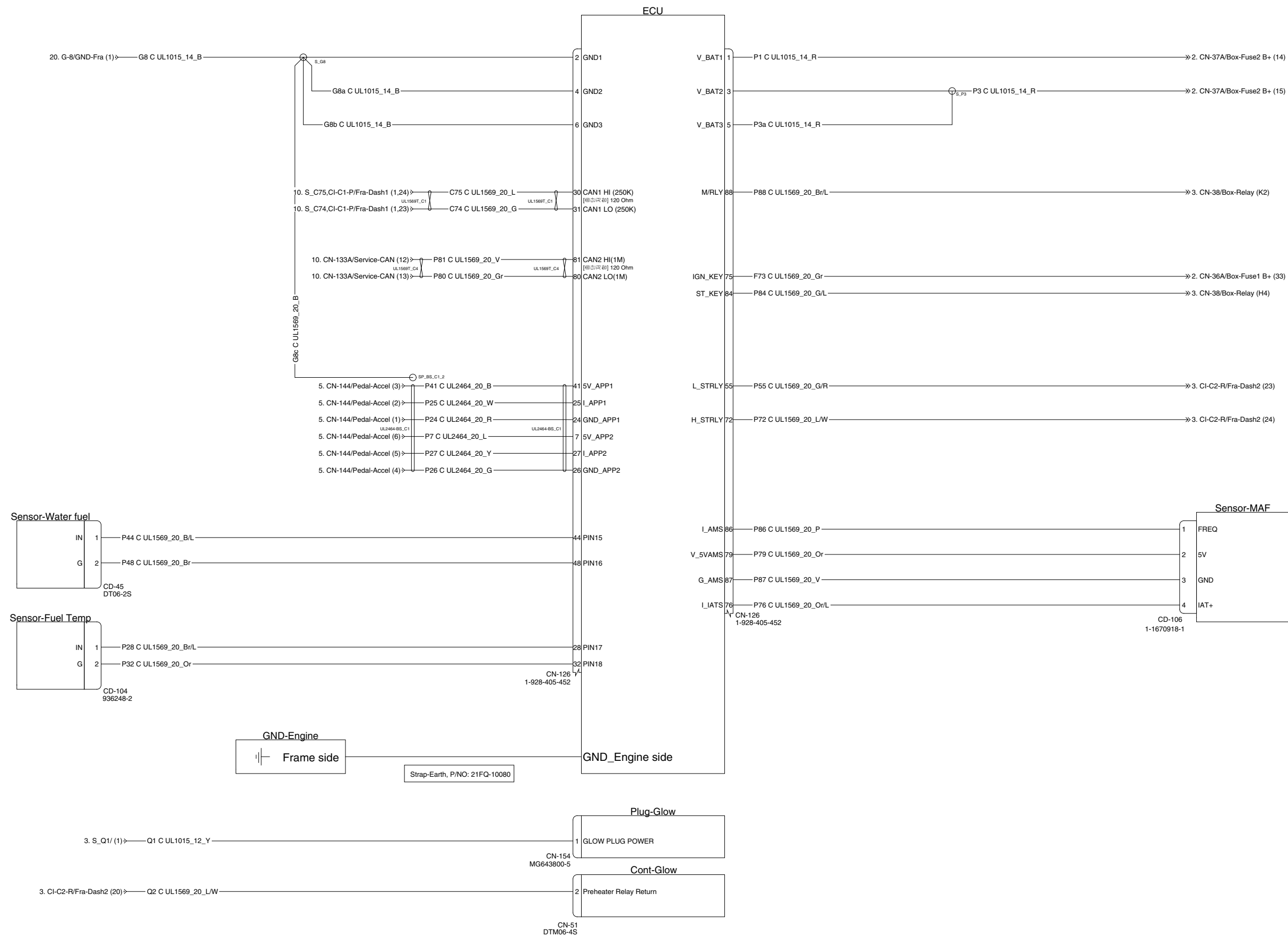
※ The circuit diagram may differ from the equipment, so please check before a repair.

PARKING, BRAKE (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



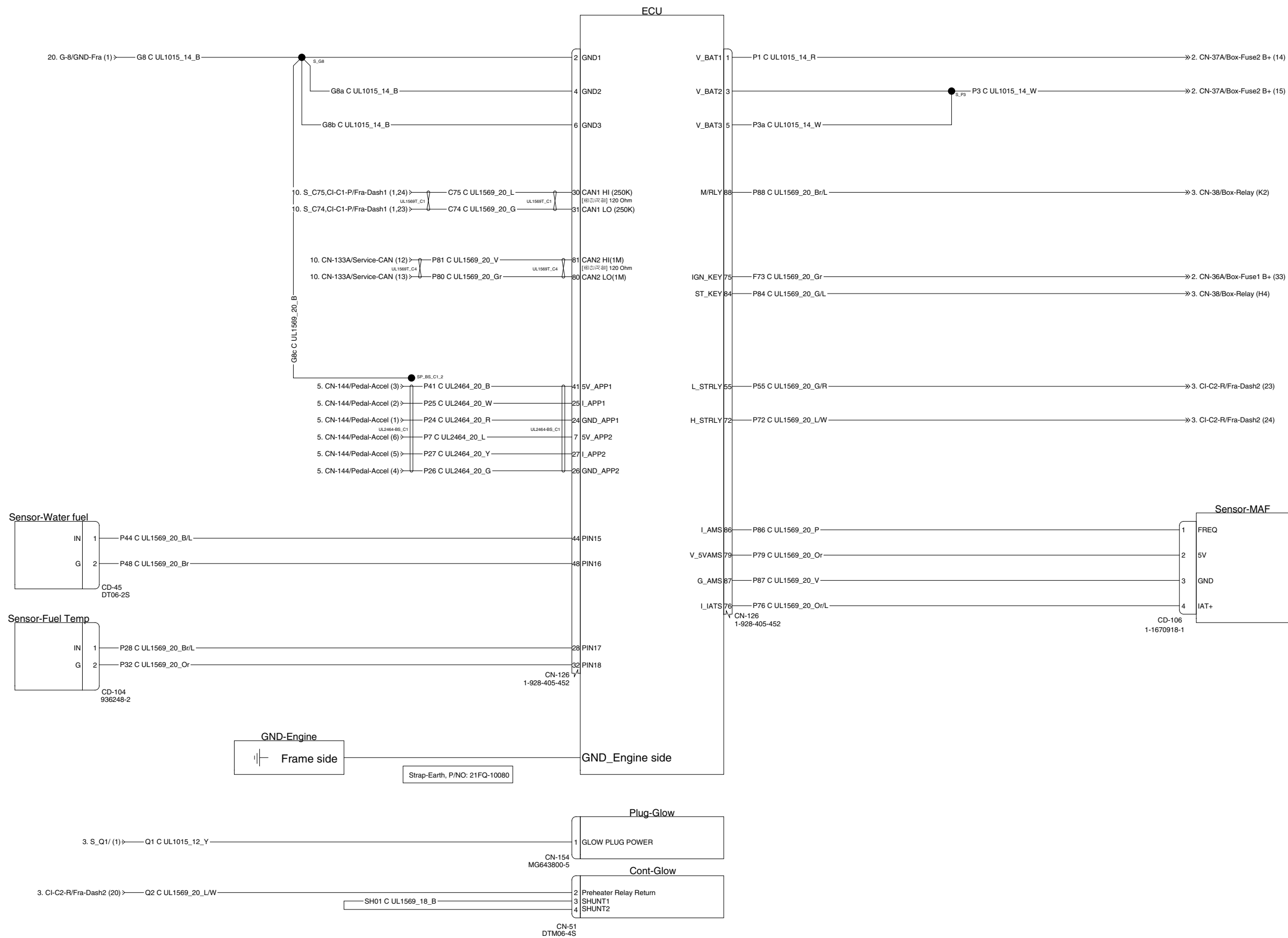
※ The circuit diagram may differ from the equipment, so please check before a repair.

7. ENGINE (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



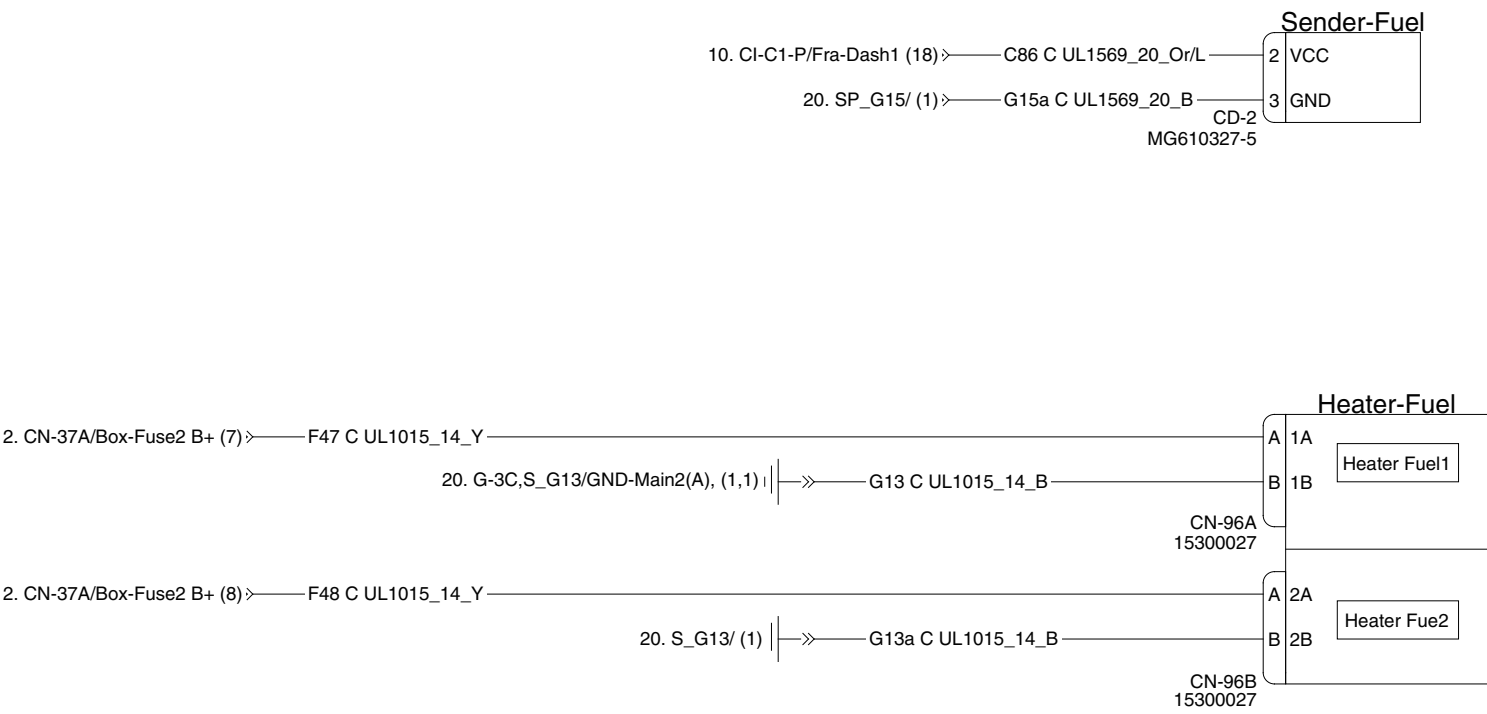
※ The circuit diagram may differ from the equipment, so please check before a repair.

ENGINE (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



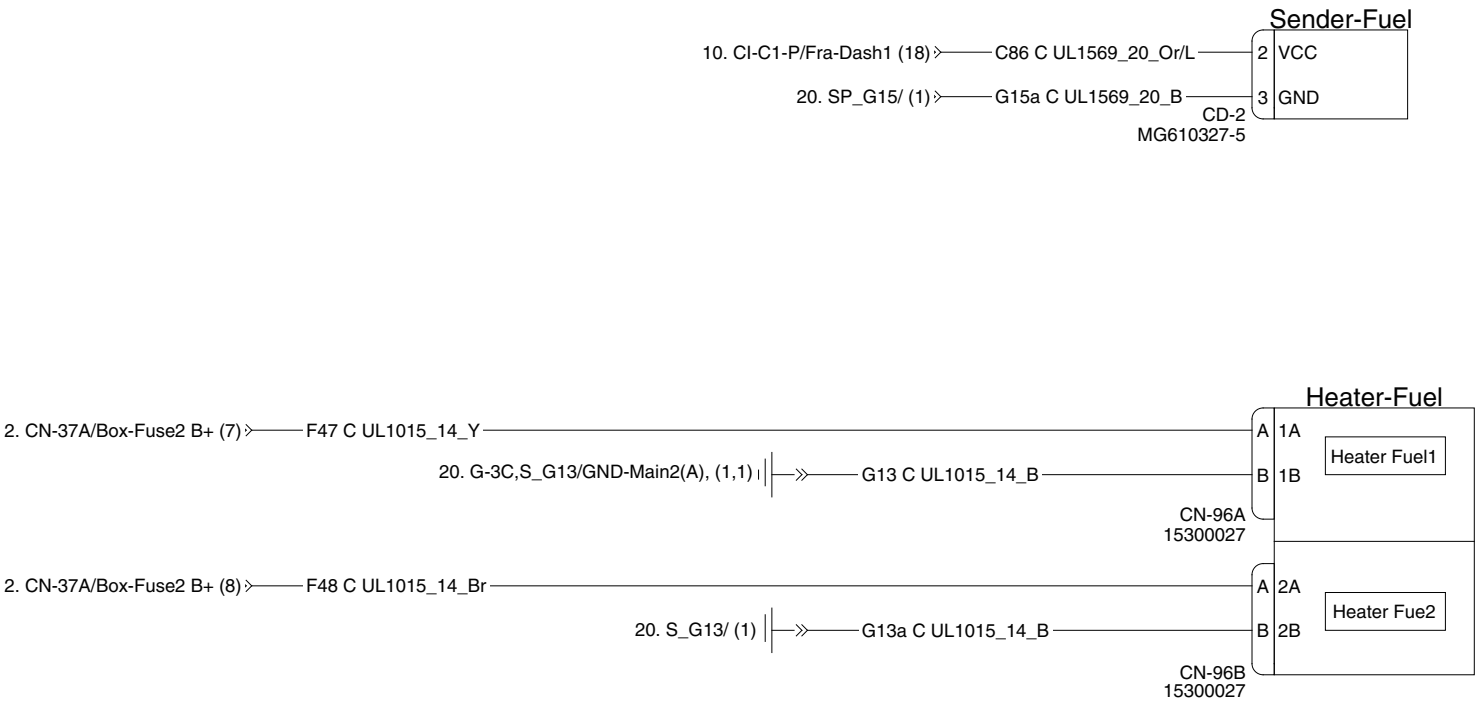
※ The circuit diagram may differ from the equipment, so please check before a repair.

8. FUEL (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)

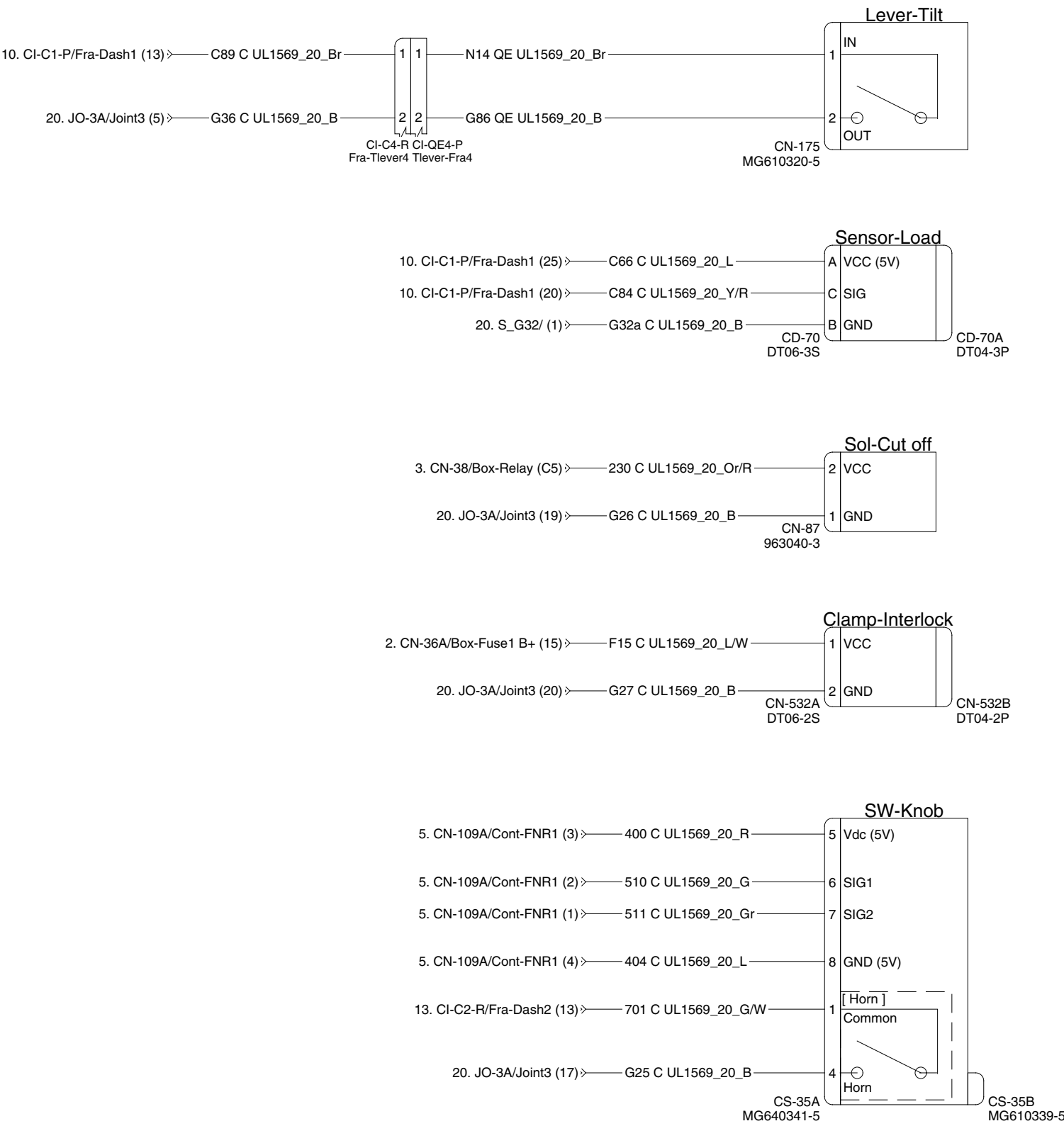


※ The circuit diagram may differ from the equipment, so please check before a repair.

FUEL (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)

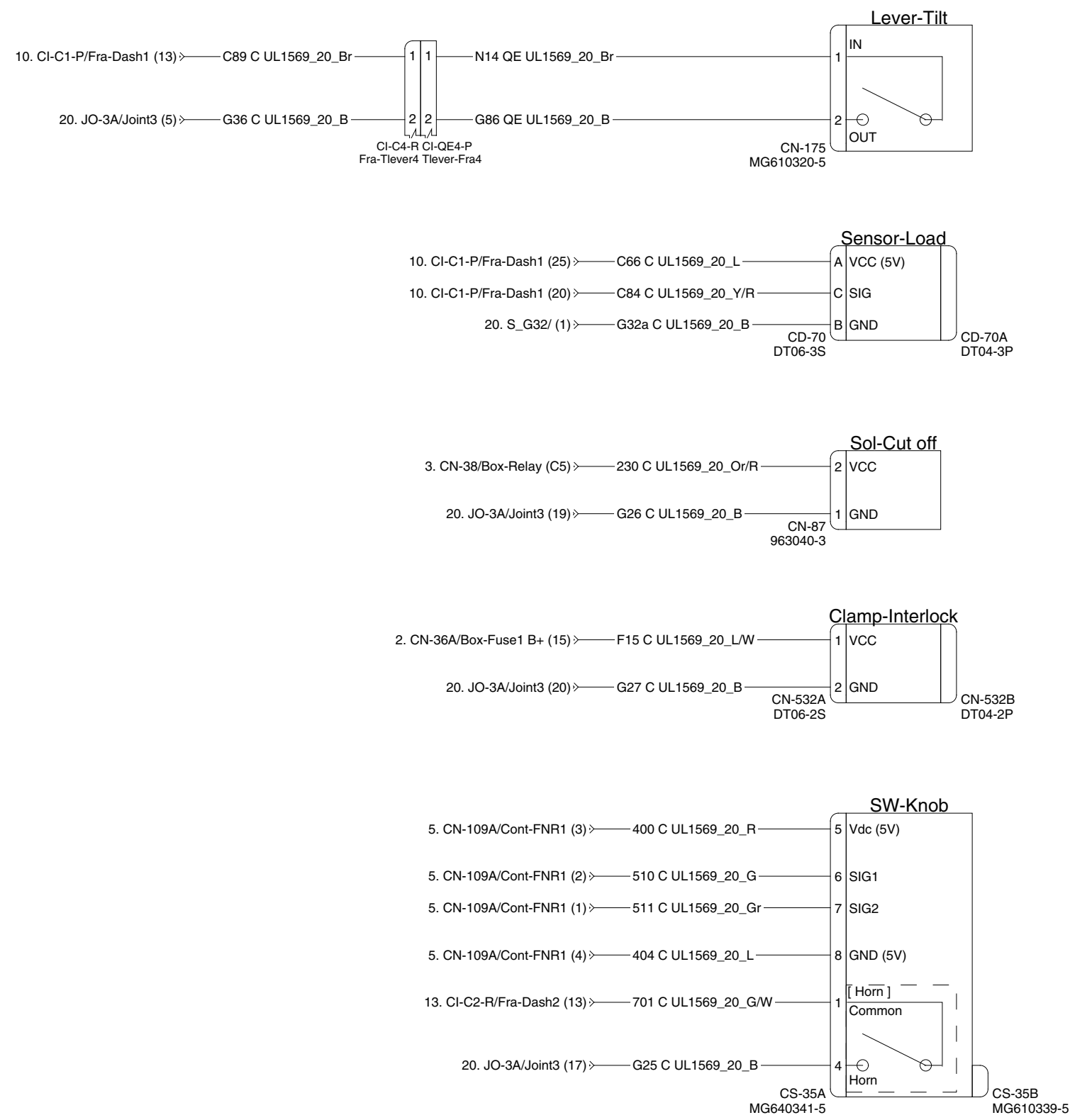


9. MCV (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)

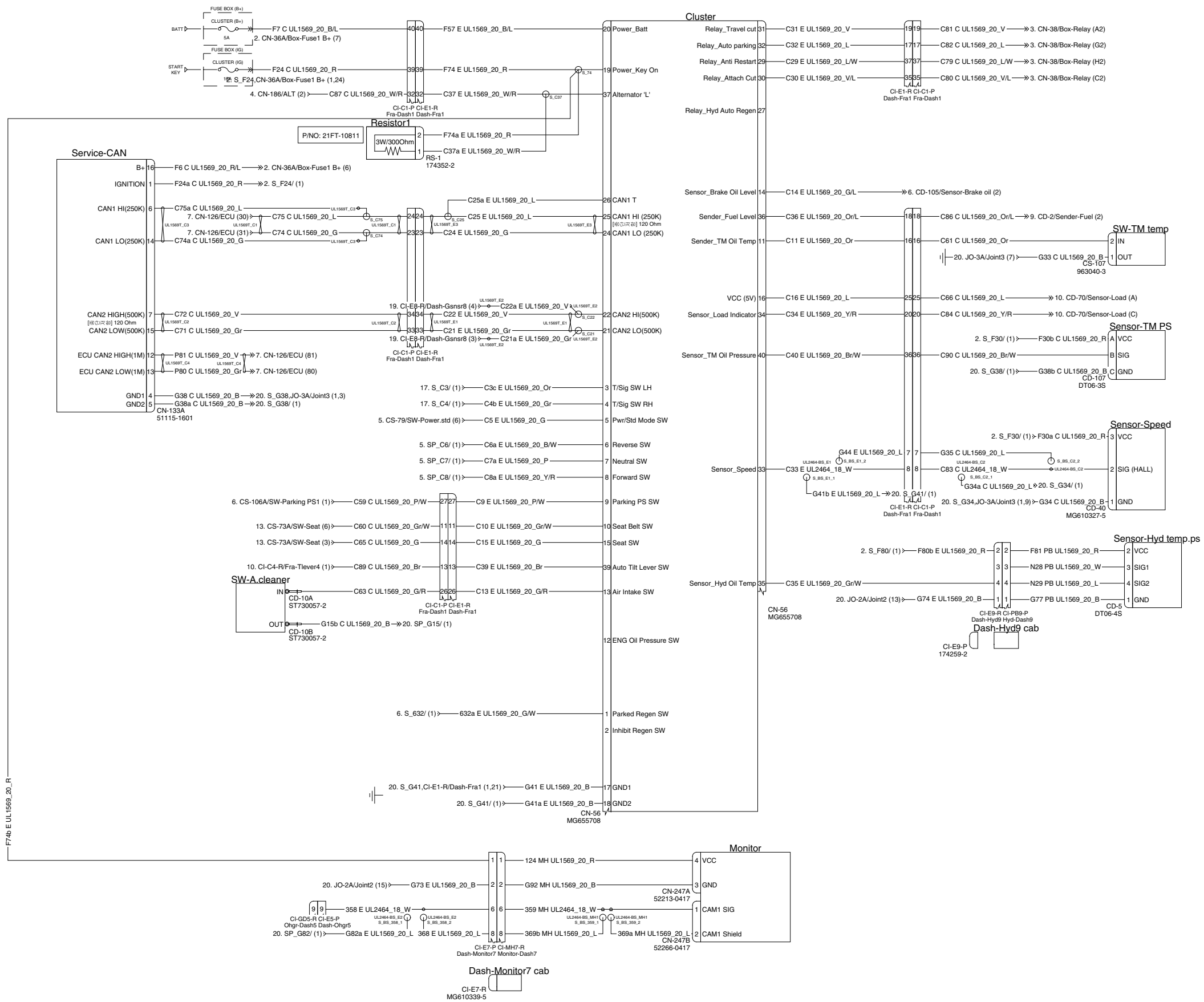


※ The circuit diagram may differ from the equipment, so please check before a repair.

MCV (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)

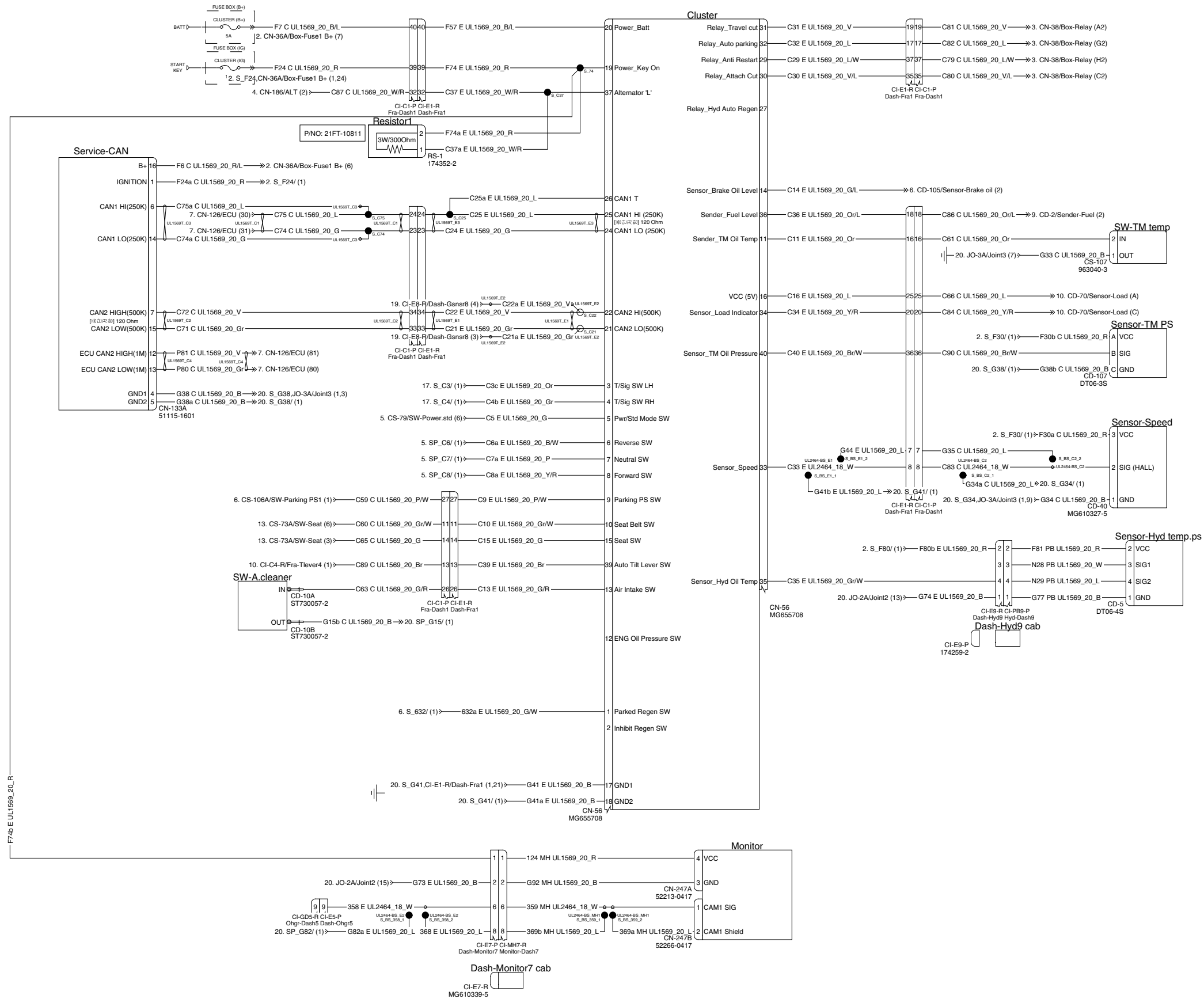


10. DISPLAY DEVICE (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



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

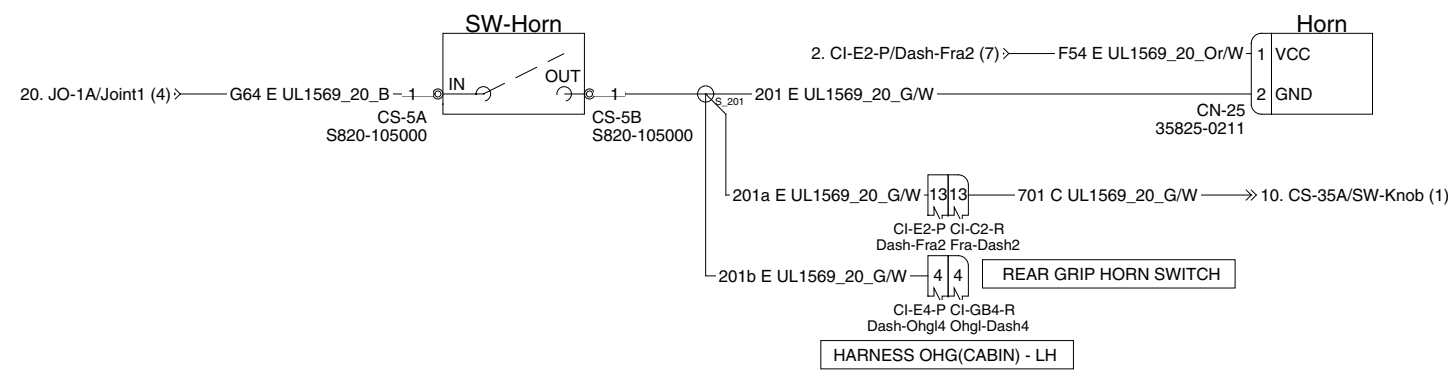
DISPLAY DEVICE (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



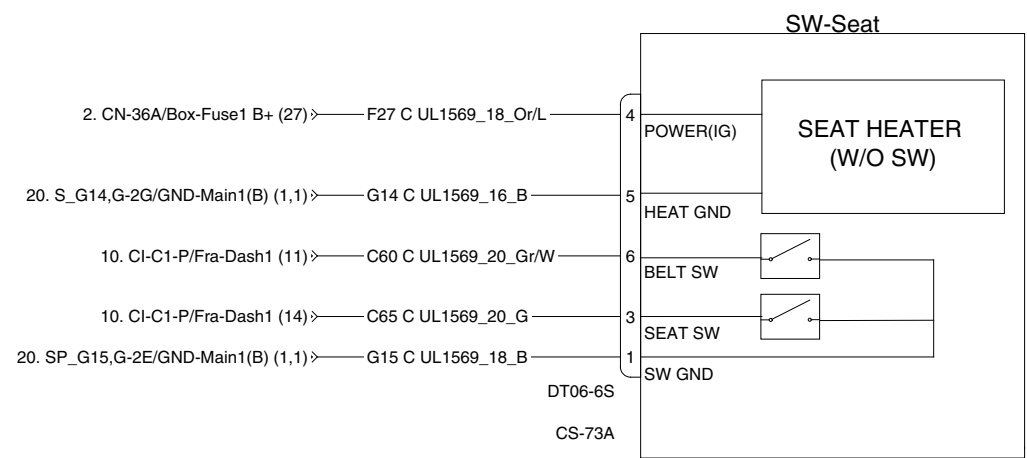
※ The circuit diagram may differ from the equipment, so please check before a repair.

11. HORN, SEAT, SOCKET (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)

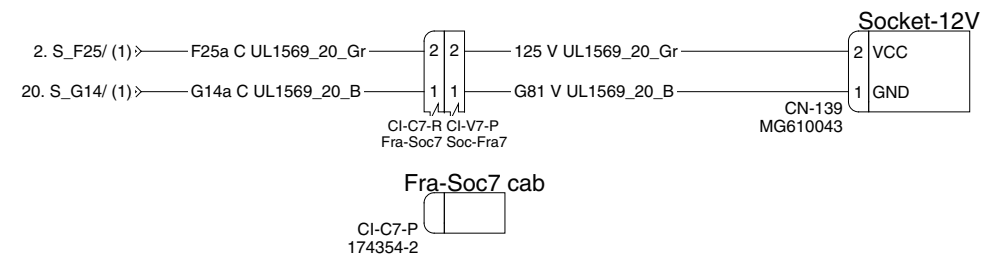
HORN



SEAT



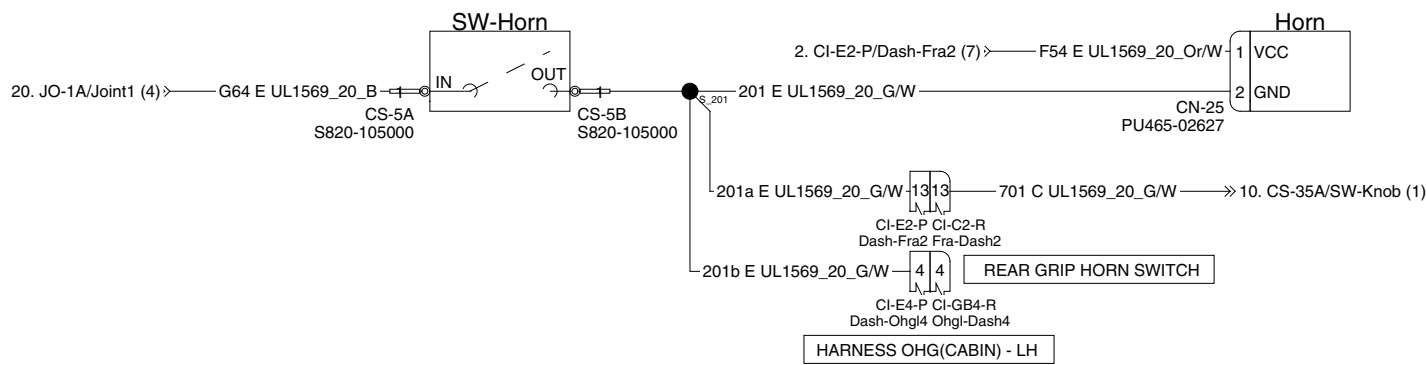
12V SOCKET



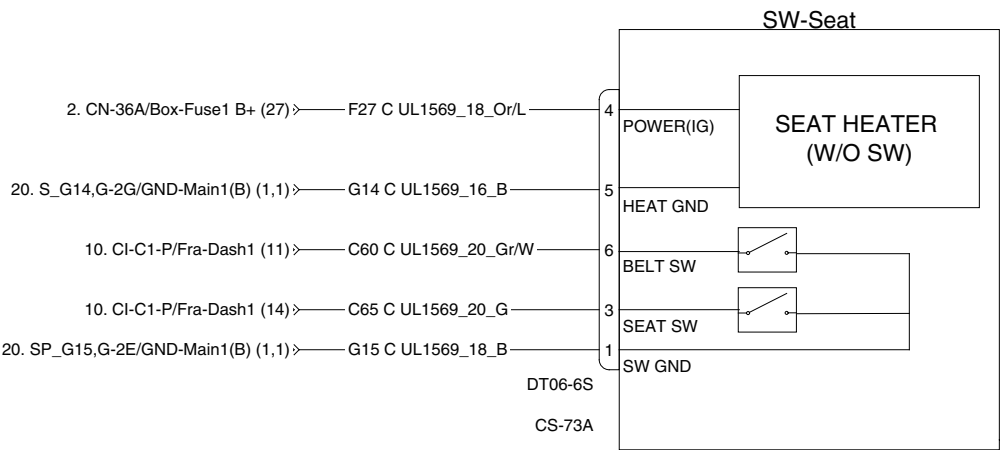
※ The circuit diagram may differ from the equipment, so please check before a repair.

HORN, SEAT, SOCKET (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)

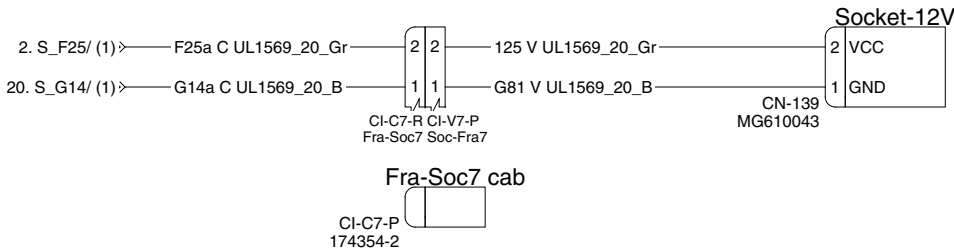
HORN



SEAT

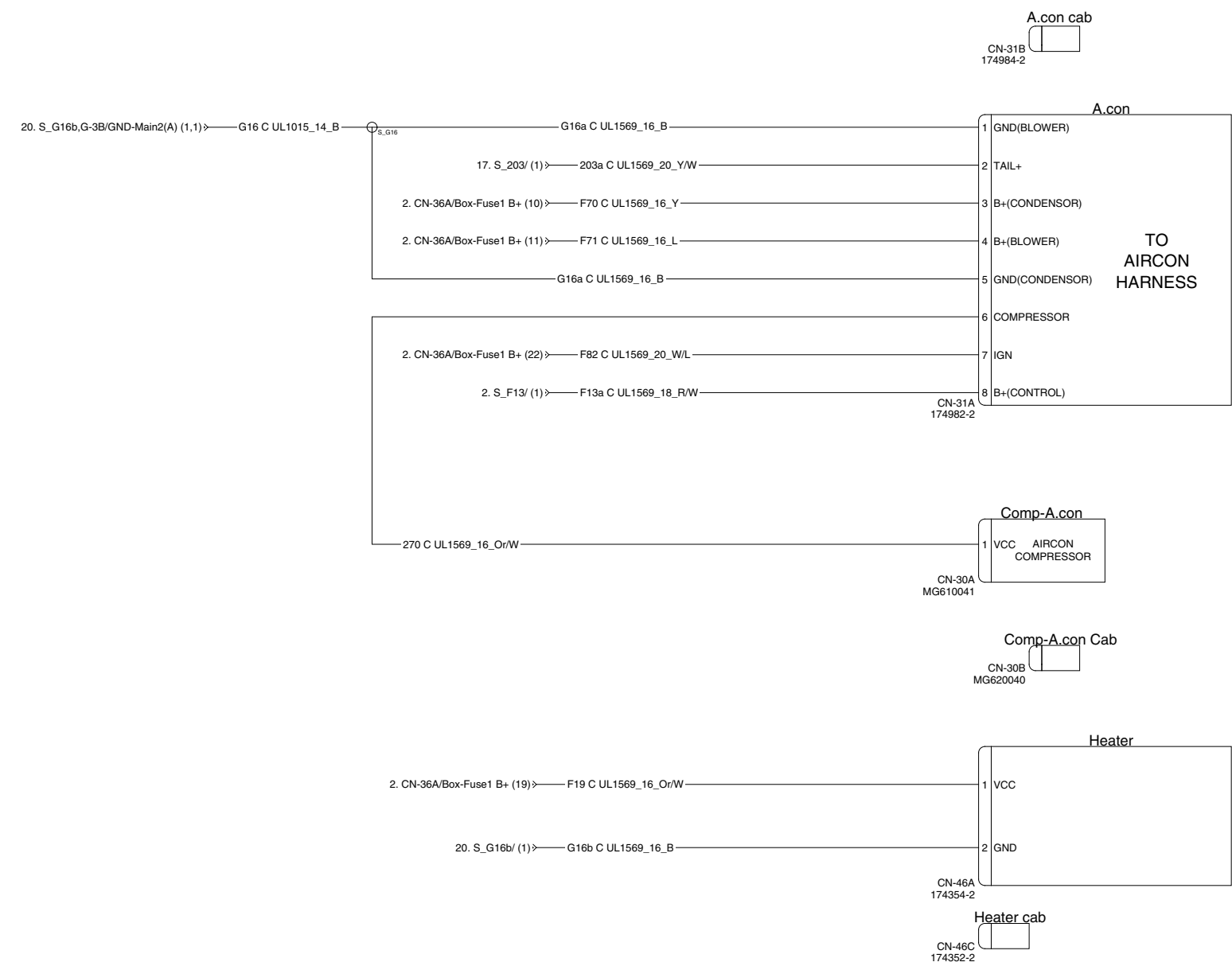


12V SOCKET



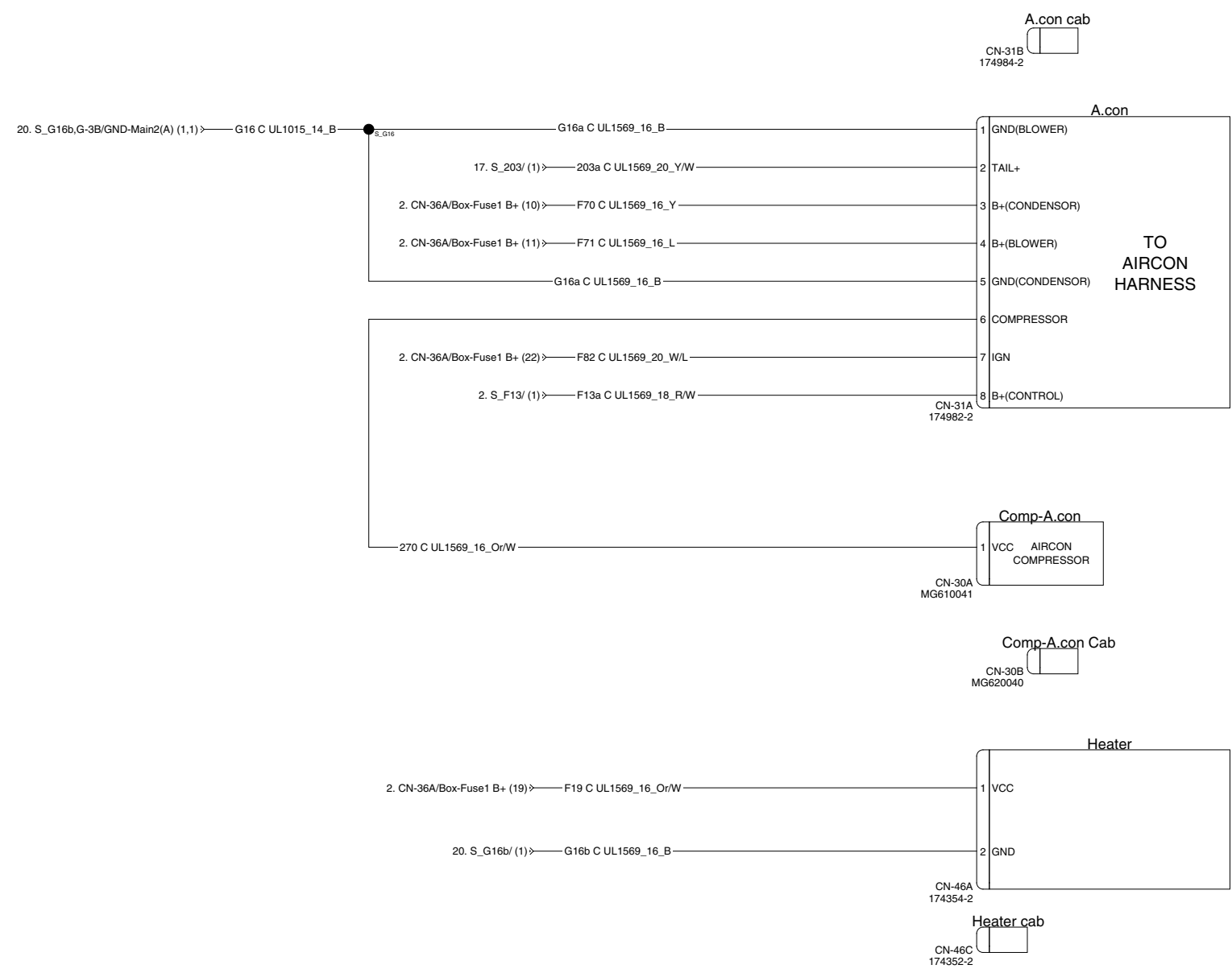
※ The circuit diagram may differ from the equipment, so please check before a repair.

12. AIR CON, HEATER (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



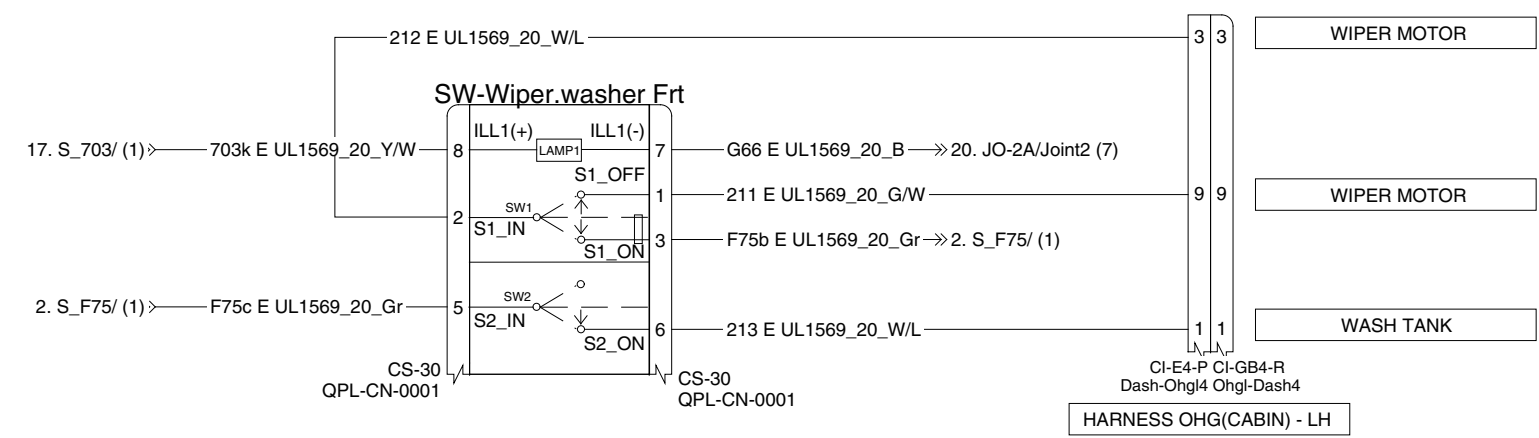
※ The circuit diagram may differ from the equipment, so please check before a repair.

AIR CON, HEATER (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



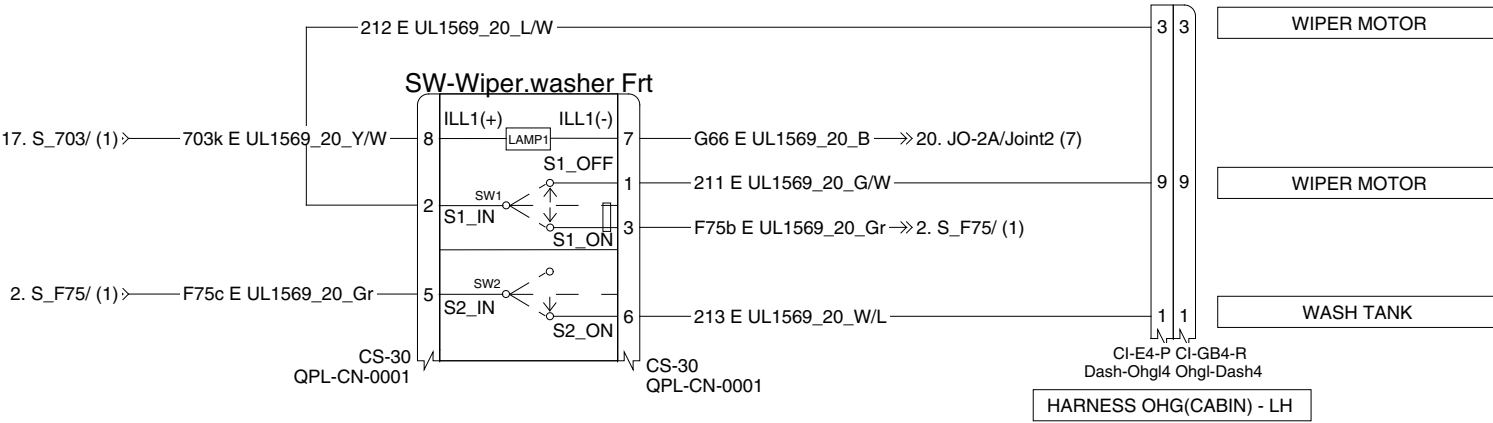
※ The circuit diagram may differ from the equipment, so please check before a repair.

13. WIPER, WASHER (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



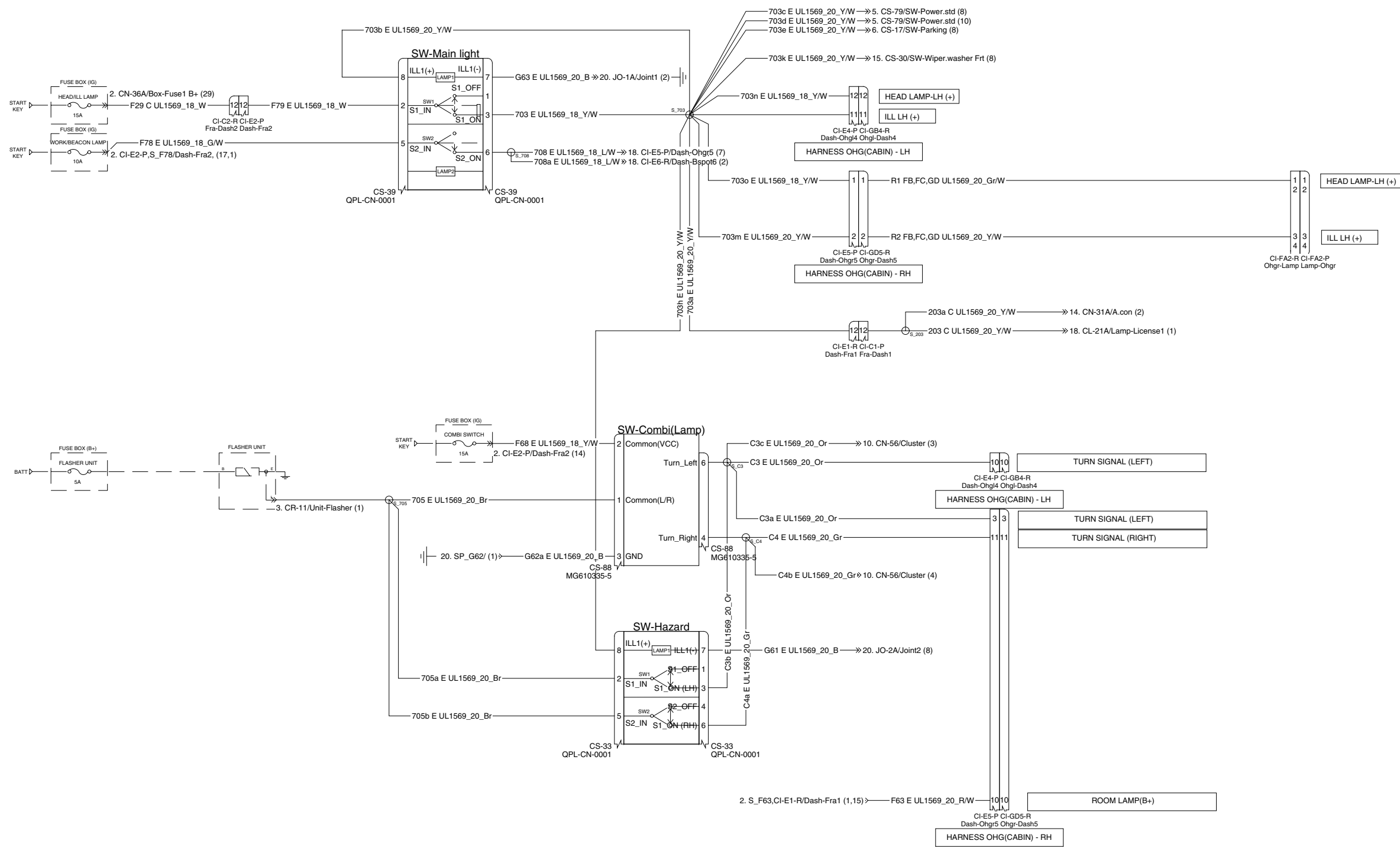
※ The circuit diagram may differ from the equipment, so please check before a repair.

WIPER, WASHER (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



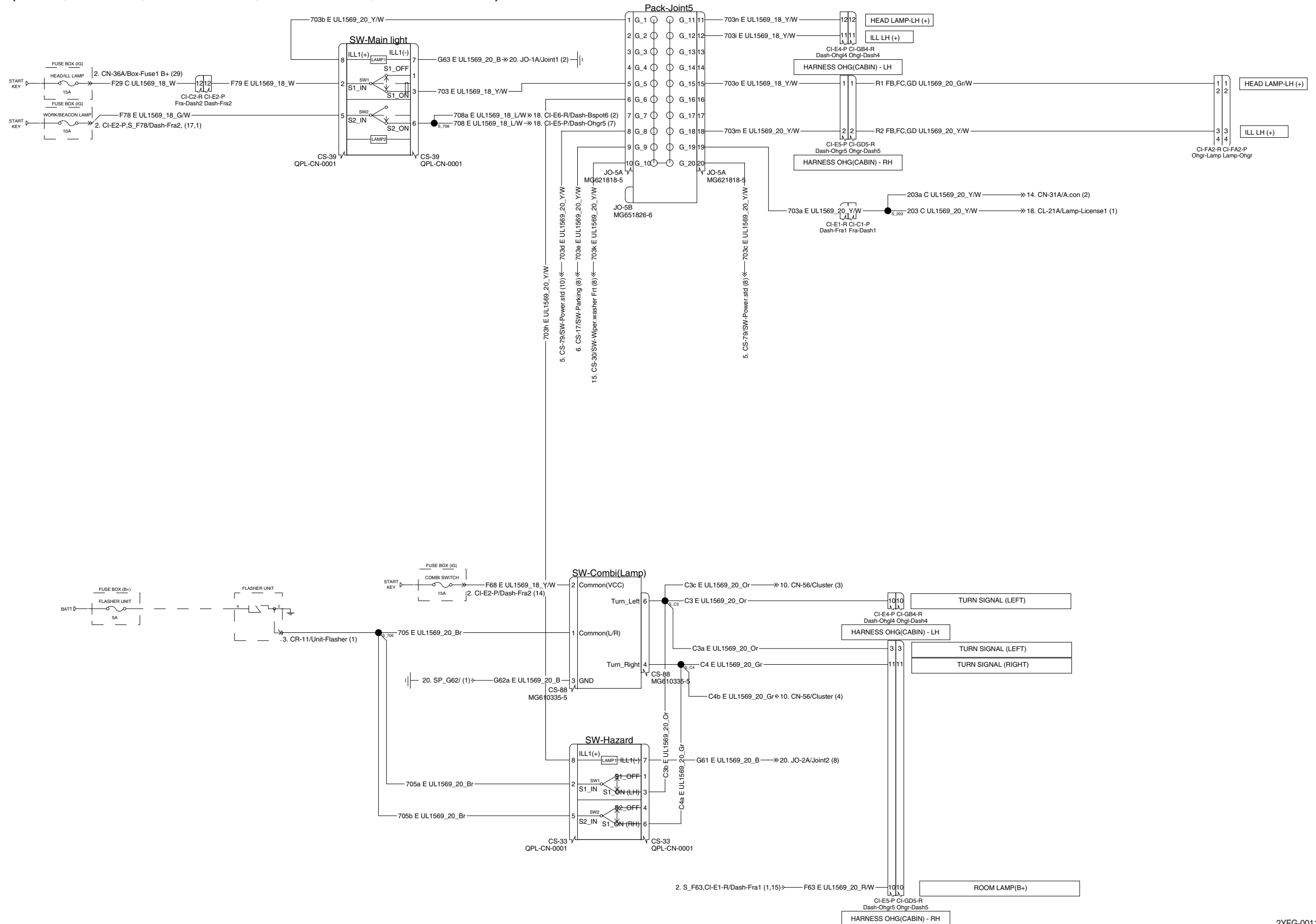
※ The circuit diagram may differ from the equipment, so please check before a repair.

14. LAMP (FRONT, INTERIOR, 25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



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

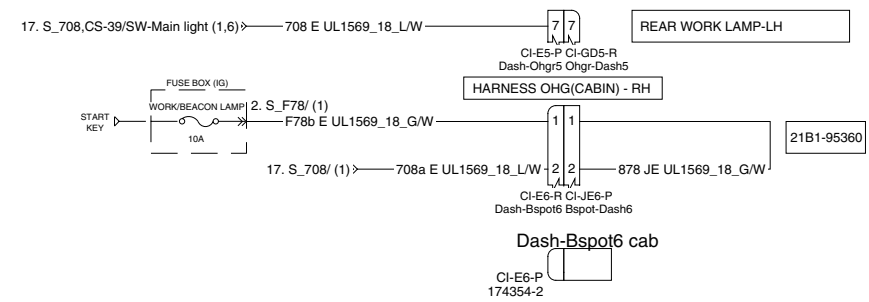
LAMP (FRONT, INTERIOR, 25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



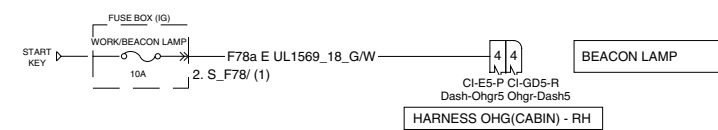
※ The circuit diagram may differ from the equipment, so please check before a repair.

15. LAMP (REAR, 25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)

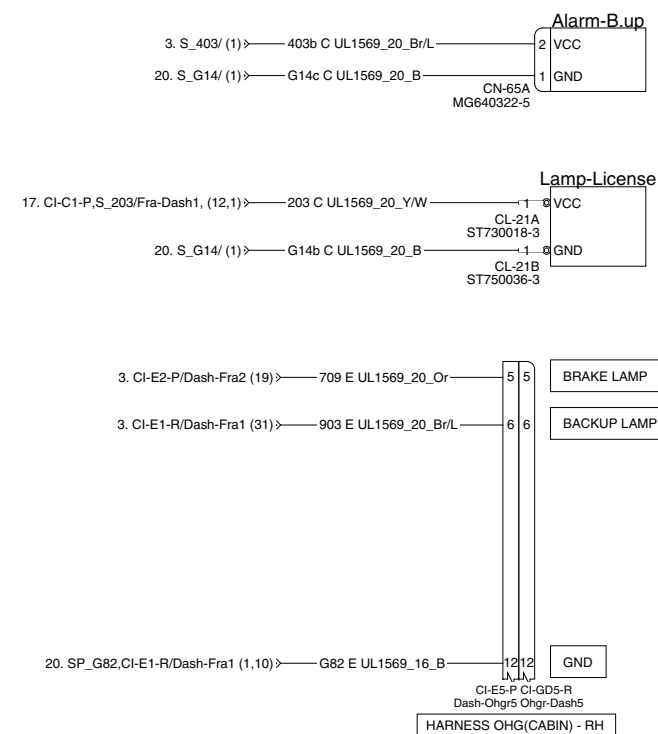
Rear Work/Blue spot Lamp



Beacon Lamp

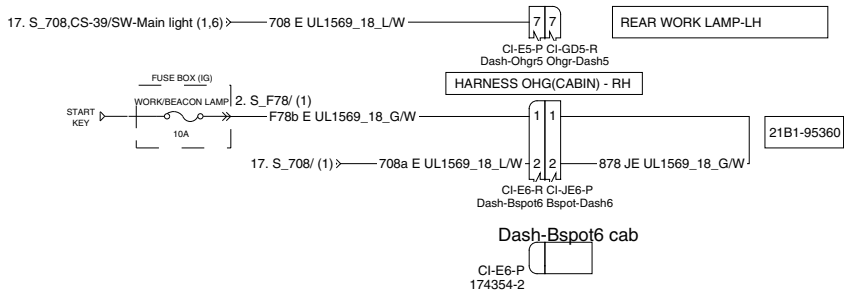


Rear Combi/Back Up/License Lamp

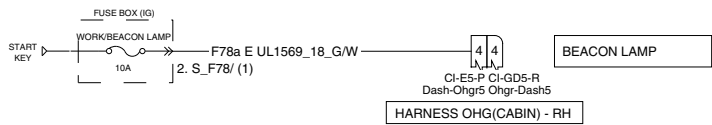


LAMP (REAR, 25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)

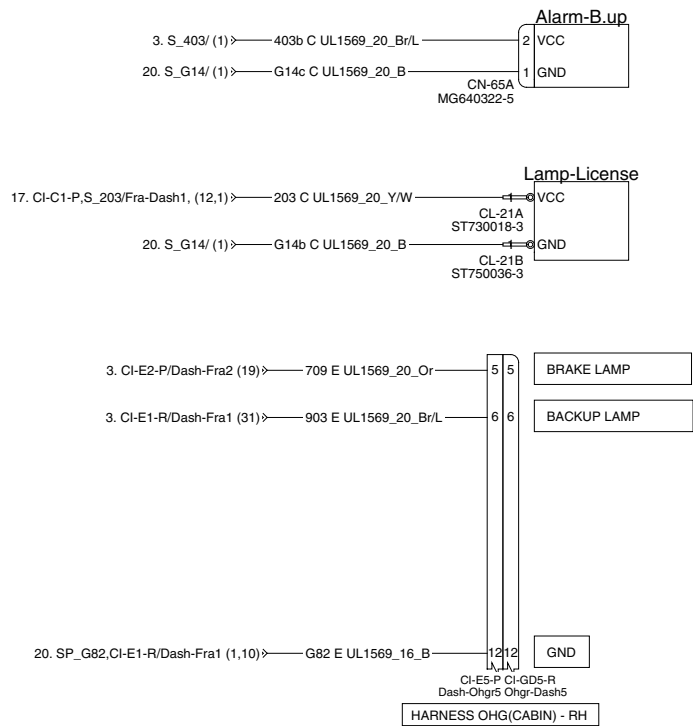
Rear Work/Blue spot Lamp



Beacon Lamp

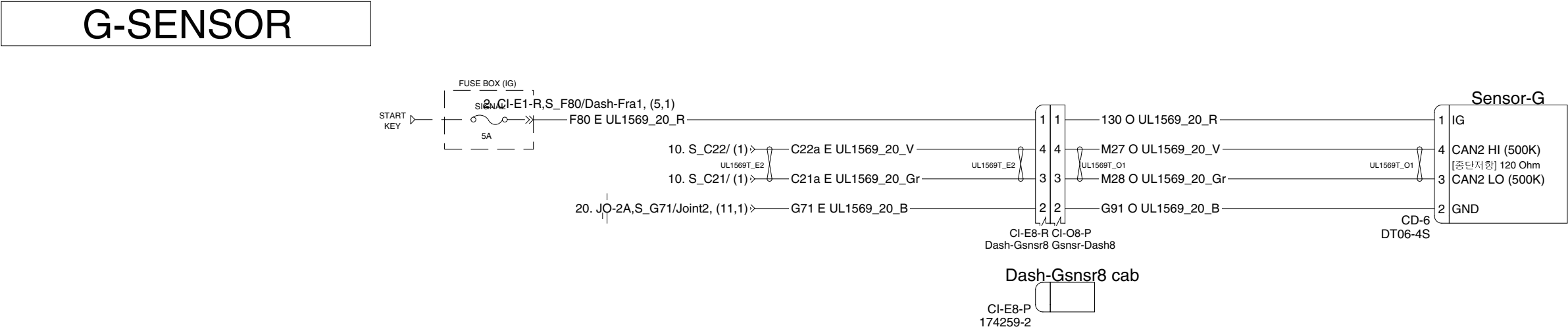


Rear Combi/Back Up/License Lamp



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

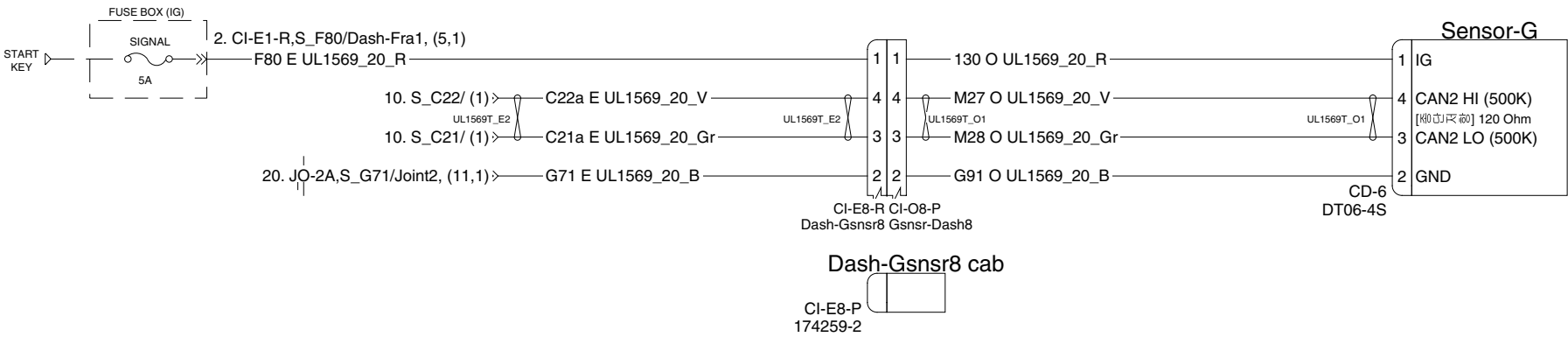
16. FORK, MAST, DIAGNOSIS (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



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

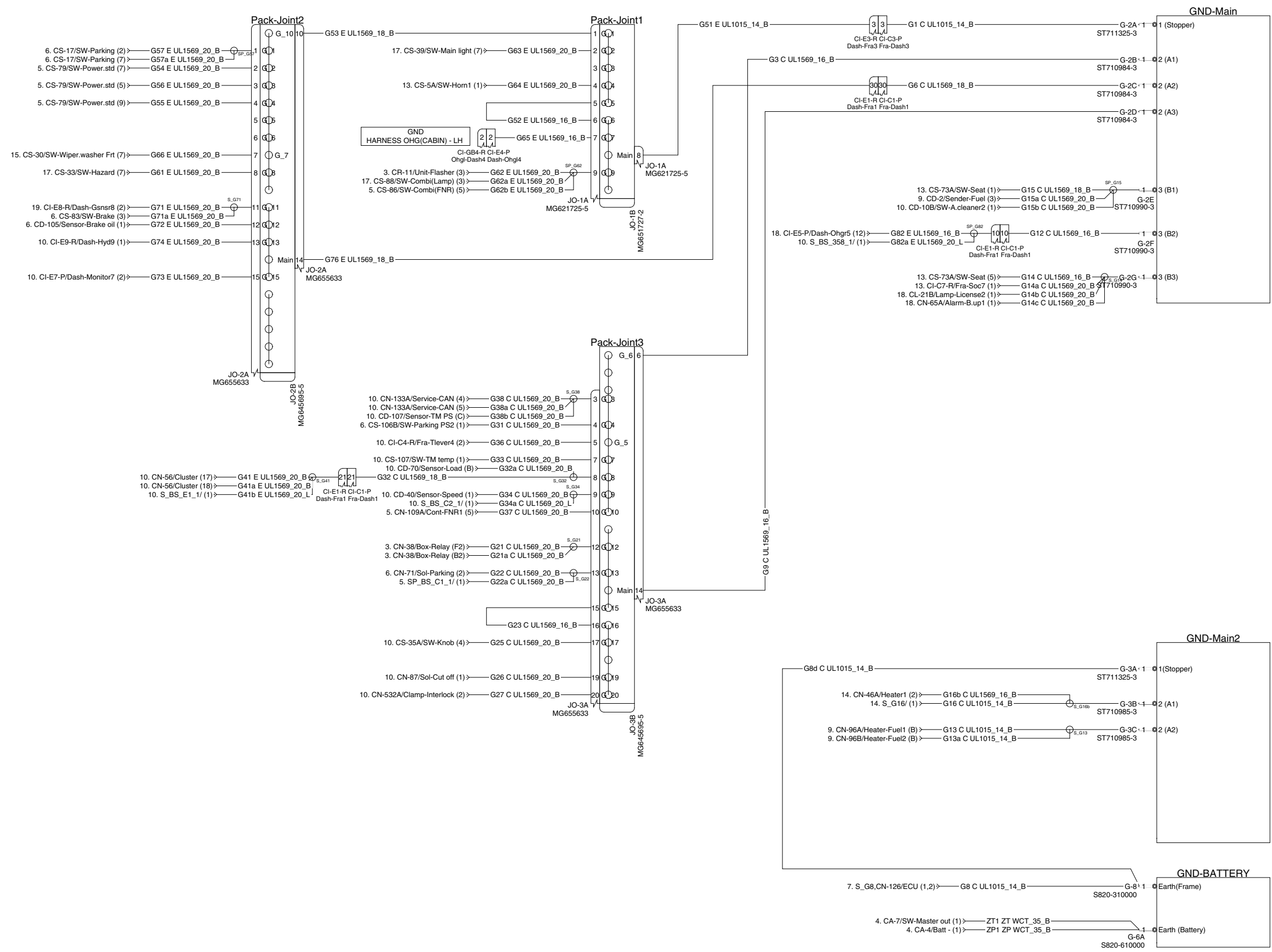
LAMP (REAR, 25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)

G-SENSOR



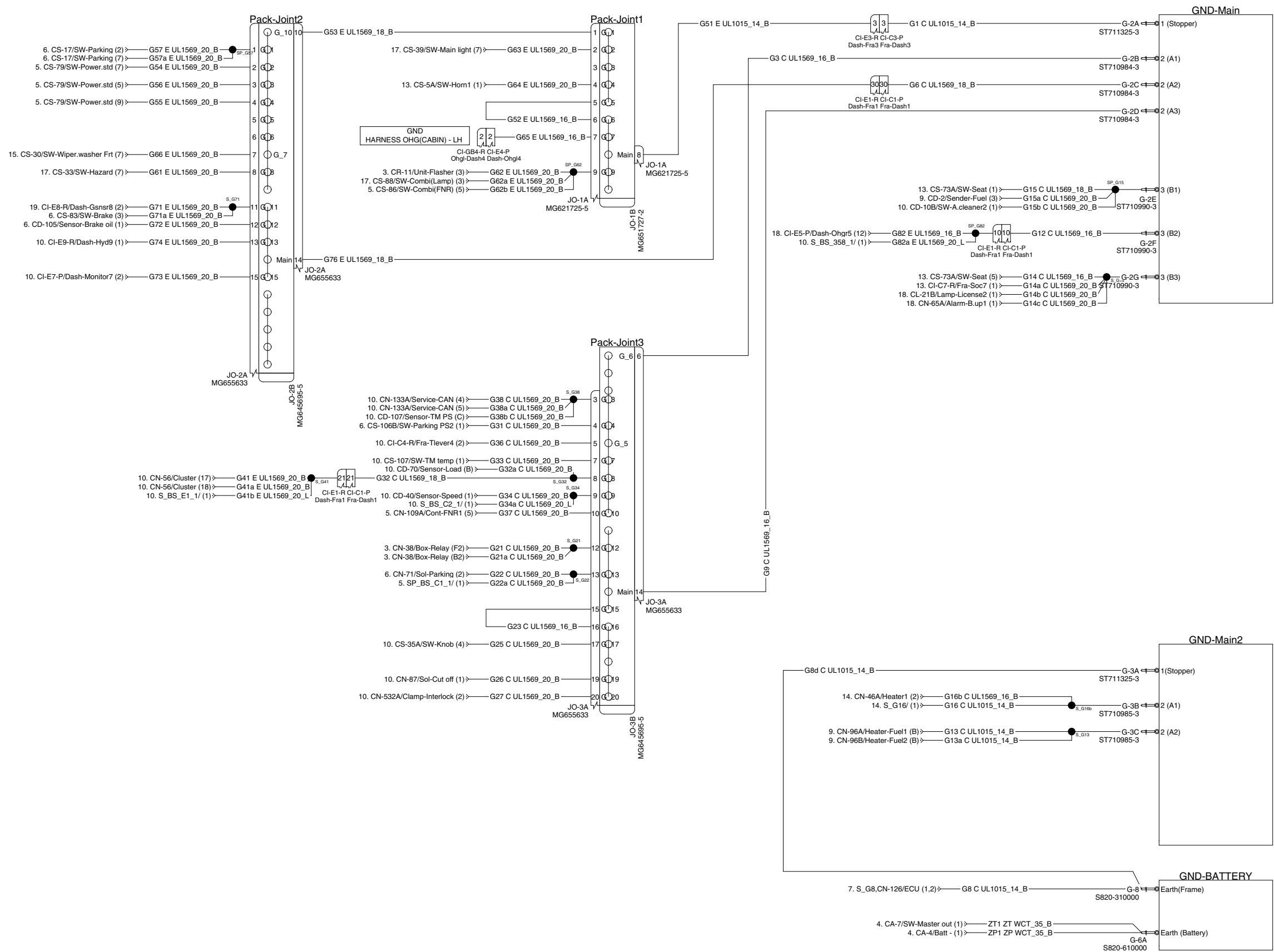
※ The circuit diagram may differ from the equipment, so please check before a repair.

17. GND (25D-9V : -#0700, 30D-9V : -#2116, 35DN-9V : -#0752)



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

GND (25D-9V : #0701-, 30D-9V : #2117-, 35DN-9V : #0753-)



※ 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×90 AH RC : 160 min CCA : 720 A														
2	Work lamp	1	12V, 55W														
3	Work lamp (LED, option)	1	12V, 22W														
4	Rear combination lamp (LED)	2	12V, 1.6/0.2W (Stop/Tail) 12V, 1.1W (Turn) 12V, 1.1W (Back Up)														
5	Flasher lamp	2	12V, 0.5/2.2W (posit/turn signal)														
6	Beacon lamp (LED, option)	1	12V, max. 0.800A														
7	Camera (option)	1	12V, 1.32W														
8	Flasher unit relay (3P)	1	12V, 20A														
9	Relay (5P)	10	12V, 20A														
10	Flasher Unit	1	12V, 85 ± 10 CM, $(23W + 23W) \times 2 + 3W \times 2$														
11	Back buzzer	1	12V, 90 ± 5 dB, 60 ± 10 C/M														
12	Horn	1	12V, MAX 3.5A, 105 ~ 120 dB														
13	Cluster-CI	1	12V, 15W														
14	G-sensor (Mast angle, option)	1	12V, 5W														
15	Fuel level sender	1	<table border="1"> <tr> <td>Float indicator</td><td>E</td><td>4/8</td><td>F</td></tr> <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> </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%														
16	Master switch (option)	1	12V, 180A														
17	Gear selector switch	1	12V, 3.5A														
18	Combination switch	1	Direction : 12V, 3.5A Multi-function switch : 12V, 2A														
19	Rear worklamp switch (option)	1	12V, 15A														
20	Hazard switch (option)	1	12V, 15A														
21	Fuel warmer switch	1	12V, 15A														
22	Beacon lamp switch (option)	1	12V, 15A														
23	Wiper/washer switch (option)	1	12V, 15A														
24	Accelerator pedal	1	12V, input voltage 5Vdc, current 16~20mA														
25	Parking switch	1	12V, 15A														
26	OPSS buzzer	1	12V, 50mA max, 80~90dB														
27	Socket assy (option)	1	12V, 10A														
28	Blue spot (LED, option)	1	12V, 8W														

GROUP 4 CONNECTOR DESTINATION

1. FRAME HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.		Terminal part No..
				Female	Male	
CA-1	HCE	-	ALT B+	-	-	S820-308000
CA-16	HCE	-	Motor-Start2	-	-	S820-310000
CD-104	AMP	2	Sensor-Fuel Temp	936248-2	-	-
CD-107	DEUTSCH	3	Sensor-TM PS	DT06-3S	-	-
CD-10A	KET	-	SW-A.cleaner1	-	-	ST730057-2
CD-10B	KET	-	SW-A.cleaner2	-	-	ST730057-2
CD-2	KET	3	Sender-Fuel	MG610327-5	-	-
CD-40	KET	3	Sensor-Speed	MG610327-5	-	-
CD-45	DEUTSCH	2	Sensor-Water fuel	DT06-2S	-	-
CD-70	DEUTSCH	3	Sensor-Load	DT06-3S	-	-
CD-70A	DEUTSCH	3	Sensor-Load cab	-	DT04-3P	-
CI-C1-P	AMP	42	Fra-Dash1	-	936429-2	-
CI-C2-R	AMP	26	Fra-Dash2	1897009-2	-	-
CI-C3-P	KET	3	Fra-Dash3	-	MG652290-5	-
CI-C4-P	KET	2	CI-C4-R cab	-	MG640322-5	-
CI-C4-R	KET	2	Fra-Tlever4	MG610320-5	-	-
CI-C6-P	AMP	2	Fra-Acon6	174352-2	-	-
CI-C6-R	KET	1	Fra-Acon6 cab	MG610278-5	-	-
CI-C7-P	AMP	2	Fra-Soc7 cab	-	174354-2	-
CI-C7-R	AMP	2	Fra-Soc7	174352-2	-	-
CI-C9-R	AMP	4	Dash-Hyd9	174257-2	-	-
CI-E9-P	AMP	4	Dash-Hyd9 cab	-	174259-2	-
CL-21A	KET	-	Lamp-License1	-	-	ST730018-3
CL-21B	KET	-	Lamp-License2	-	-	ST750036-3
CN-109A	AMP	6	Cont-FNR1	-	174264-2	-
CN-109B	AMP	6	Cont-FNR1 cab	174262-2	-	-
CN-110A	AMP	3	Cont-FNR2	368523-1	-	-
CN-110B	AMP	3	Cont-FNR2 cab	-	174359-2	-
CN-123	DEUTSCH	2	Sol-Backward	DT06-2S	-	-
CN-126	BOSCH	91	ECU	1-928-405-452	-	-
CN-133A	MOLEX	16	Service-CAN	51115-1601	-	-
CN-144	AMP	6	Pedal-Accel	174262-2	-	-
CN-154	KET	1	Male-Glow	-	MG643800-5	-
CN-185	DELPHI	2	Fuel Warmer	15300027	-	-
CN-186	SMITOMO	3	ALT	6189-0443	-	-

Connector number	Type	No. of pin	Destination	Connector part No.		Terminal part No..
				Female	Male	
CN-260	QPL	-	Box-Relay2	21HN-55110	-	-
CN-261	DEUTSCH	2	Sol-Forward1	DT06-2S	-	-
CN-262	DEUTSCH	2	Sol-Forward2	DT06-2S	-	-
CN-31	AMP	8	A.con	174982-2	-	-
CN-31b	AMP	8	A.con Cab	-	174984-2	-
CN-36A	QPL	-	Box-Fuse1 B+	21HN-55010	-	-
CN-38	QPL	-	Box-Relay	21HN-55110	-	-
CN-45A	HCE	-	Motor-Start1	-	-	S820-105000
CN-46	AMP	2	Heater	-	174354-2	-
CN-46c	AMP	2	Heater Cab	174352-2	-	-
CN-51	DEUTSCH	4	Cont-Glow	DTM06-4S	-	-
CN-65A	KET	2	Alarm-B.up1	-	MG640322-5	-
CN-71	DEUTSCH	2	Sol-Parking	DT06-2S	-	-
CN-74	HCE	-	ALT B+	-	-	S820-308000
CN-87	AMP	2	Sol-Cut off	963040-3	-	-
CN-95A	KET	2	F.link	-	MG620558	-
CN-96A	DELPHI	2	Heater-Fuel1	15300027	-	-
CS-107	AMP	2	SW-TM temp	963040-3	-	-
CS-35A	KET	8	SW-Knob	-	MG640341-5	-
CS-35B	KET	8	SW-Knob cab	MG610339-5	-	-
CS-73A	DEUTSCH	6	SW-Seat	DT06-6S	-	-
DO-1	AMP	2	Diode1	174352-2	-	-
G-2A	KET	-	GND-Main1(S)	-	-	ST711325-3
G-2B	KET	-	GND-Main1(A)	-	-	ST710984-3
G-2C	KET	-	GND-Main1(A)	-	-	ST710984-3
G-2D	KET	-	GND-Main1(A)	-	-	ST710984-3
G-3A	KET	-	GND-Main2(S)	-	-	ST711325-3
G-3B	KET	-	GND-Main2(A)	-	-	ST710985-3
G-3C	KET	-	GND-Main2(A)	-	-	ST710985-3
G-3D	KET	-	GND-Main2(B)	-	-	ST710985-3
G-3E	KET	-	GND-Main2(B)	-	-	ST710991-3
G-4A	KET	-	GND-Main3(S)	-	-	ST711324-3
G-4B	KET	-	GND-Main3(A)	-	-	ST710984-3
G-4C	KET	-	GND-Main3(A)	-	-	ST710990-3
G-4D	KET	-	GND-Main3(B)	-	-	ST710990-3
G-8	HCE	-	GND-Fra	-	-	S820-310000
JO-3A	KET	20	Joint3	MG655633	-	-
JO-3B	KET	20	Joint3 pack	-	MG645695-5	-

2. DASHBOARD HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.		Terminal part No..
				Female	Male	
CI-E11-P	AMP	1	Dash-Camgnd Cab	-	174879-2	-
CI-E1-R	AMP	42	Dash-Fra1	936421-2	-	-
CI-E10-P	AMP	2	Dash-Cam	174352-2	-	-
CI-E10-R	AMP	2	Dash-Cam cab	-	174354-2	-
CI-E11-R	AMP	1	Dash-Camgnd	174877-2	-	-
CI-E12-P	DEUTSCH	6	Dash-RMCU cab	-	DT04-6P	-
CI-E12-R	DEUTSCH	6	Dash-RMCU	DT06-6S	-	-
CI-E2-P	AMP	26	Dash-Fra2	-	1897013-2	-
CI-E3-R	KET	3	Dash-Fra3	MG642292-5	-	-
CI-E4-P	KET	12	Dash-Ohgl4	-	MG640348-5	-
CI-E5-P	KET	12	Dash-Ohgr5	-	MG640348-5	-
CI-E6-P	AMP	2	Dash-Bspot6 cab	-	174354-2	-
CI-E6-R	AMP	2	Dash-Bspot6	174352-2	-	-
CI-E7-P	AMP	4	Dash-Monitor7	-	174259-2	-
CI-E7-R	AMP	4	Dash-Monitor7 cab	174257-2	-	-
CI-E8-P	AMP	4	Dash-Gsnsr8 cab	-	174259-2	-
CI-E8-R	AMP	4	Dash-Gsnsr8	174257-2	-	-
CN-25	MOLEX	2	Horn	35825-0211	-	-
CN-56	KET	40	Cluster	MG655708	-	-
CR-11	DAEDONG	3	Unit-Flasher	312-GIHUNG-3P	-	-
CR-23	KET	4	Relay-Start	MG612017-5	-	-
CR-49	KET	4	Relay-Fuel heater	MG612017-5	-	-
CS-106A	AMP	1	SW-Parking PS1	171809-2	-	-
CS-106B	AMP	1	SW-Parking PS2	171809-2	-	-
CS-17	CARLING	10	SW-Parking	VC2-01	-	-
CS-21	CARLING	10	SW-W.lamp	VC2-01	-	-
CS-2A	KET	2	Key start1	MG610281	-	-
CS-2B	KET	2	Key start2	-	MG620282	-
CS-30	CARLING	10	SW-Wiper.washer Frt	VC2-01	-	-
CS-33	CARLING	10	SW-Hazard	VC2-01	-	-
CS-5A	HCE	-	SW-Horn1	-	-	S820-105000
CS-5B	HCE	-	SW-Horn2	-	-	S820-105000
CS-63	AMP	8	SW-Gear select(C)	-	174984-2	-
CS-79	CARLING	10	SW-Power.std	VC2-01	-	-
CS-83	AMP	3	SW-Brake	368523-1	-	-
CS-88	AMP	8	SW-Combi(Lamp)	-	174984-2	-
JO-1A	KET	10	Joint1	MG621725-5	-	-
JO-1B	KET	10	Joint1 pack	-	MG651727-2	-

Connector number	Type	No. of pin	Destination	Connector part No.		Terminal part No..
				Female	Male	
JO-2A	KET	20	Joint2	MG655633	-	-
JO-2B	KET	20	Joint2 pack	-	MG645695-5	-
RS-1	AMP	2	Resistor1	174352-2	-	-
RS-2	DEUTSCH	3	Resistor2	DT06-3S-EP06	-	-

3. CABIN LH-HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-6	KET	12	Dashboard Harness	MG610346	-
CN-14A	DAEDONG	4	Head/Turn Lamp Harness	110-4PR G	-
CN-15	DAEDONG	2	Rear Work Lamp Harness	110-2PR G	-
CN-21	AMP	4	Wiper Motor	180900	-
CN-22	KET	2	Washer Tank	MG640605	-
CN-39	KET	3	Cabin Harness-RH	-	MG640329
· Diode					
DO-3	AMP	2	Diode	174352-2	-

4. CABIN RH-HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-5	KET	12	Dashboard Harness	MG610346	-
CN-14	DAEDONG	4	Head/Turn Lamp Harness	110-4PR	-
CN-23	KET	2	Speaker-LH	MG610070	-
CN-24	KET	2	Speaker-RH	MG610070	-
CN-27	KUM	16	USB/Radio	PK145-16017	-
CN-39	KET	3	Cabin-LH Harness	MG610327	-
CN-41	KET	2		MG610320	MG640322
CN-56	MOLEX	4	IPAS-Vehicle Tag	52213-0417	52266-0417
CN-57	MOLEX	4	IPAS-Indicator	52213-0417	52266-0417
CN-249	AMP	4	Rear View Camera	174257-2	174259-2
· Lamp					
CL-1	KET	2	Room Lamp	MG610392	-
CL-7	DEUTSCH	2	Beacon Lamp	DT06-2S	DT04-2P
CL-15	DAEDONG	6	Rear Combi Lamp-LH	110-6PR	-
CL-16	DAEDONG	6	Rear Combi Lamp-RH	110-6PR	-

5. AIR CON AND HEATER HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-29	KET	2	Aircon Dual Pressure Switch	MG640795	-
CN-30	KET	1	Aircon Compressor	MG610041	-
CN-41	KET	2	Cabin Harness-RH	-	MG640322
CN-42	KET	8	Harness-KB	MG610271	-
CN-43	KET	2	Frame Harness	MG642928-5	-
CN-44	KET	1	Frame Harness	MG610278	-
CN-83	KUM	2	Aircon Condensor Fan	PB625-02027	-
· Switch					
CS-77	KET	1	Rear Grip Horn Switch	ST730018-3	ST750036-3

6. HEATER HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-41	KET	2	Cabin Harness-RH		MG640322
CN-42	KET	8	Harness-KB	MG610278	
CN-43	KET	2	Frame Harness	MG642928-5	
CN-44	KET	1	Frame Harness	MG610278	
· Switch					
CS-77	KET	1	Rear Grip Horn Switch	ST730018-3	ST750036-3

7. OHG LH-HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-6	KET	12	Dashboard Harness	MG610346	-
CN-39	KET	3	OHG Harness-RH	-	MG640329
· Lamp					
CL-14A	DAEDONG	4	Harness Head/Turn Lamp	110-4PR	-

8. OHG RH-HARNESS

Connector number	Type	No. of pin	Destination	Connector part No.	
				Female	Male
CN-5	KET	12	Dashboard Harness	MG610346	-
CN-14	DAEDONG	4	Harness Head/Trun Lamp	110-4PR	-
CN-39	KET	2	OHG Harness-LH	MG610320	-
CN-56	MOLEX	4	IPAS-Vehicle Tag	52213-0417	52266-0417
CN-57	MOLEX	4	IPAS-Indicator	52213-0417	52266-0417
CN-249	AMP	4	Rear View Camera	174257-2	174259-2
· Switch					
CS-77	KET	1	Rear Grip Horn Switch	ST730018-3	ST750036-3
· Lamp					
CL-7	DEUTSCH	2	Beacon Lamp	DT06-2S	DT04-2P
CL-15	DAEDONG	6	LH-Rear Combi Lamp	110-6PR	-
CL-16	DAEDONG	6	RH-Rear Combi Lamp	110-6PR	-
CL-23	DAEDONG	2	LH-Rear Work	110-2PR	-

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