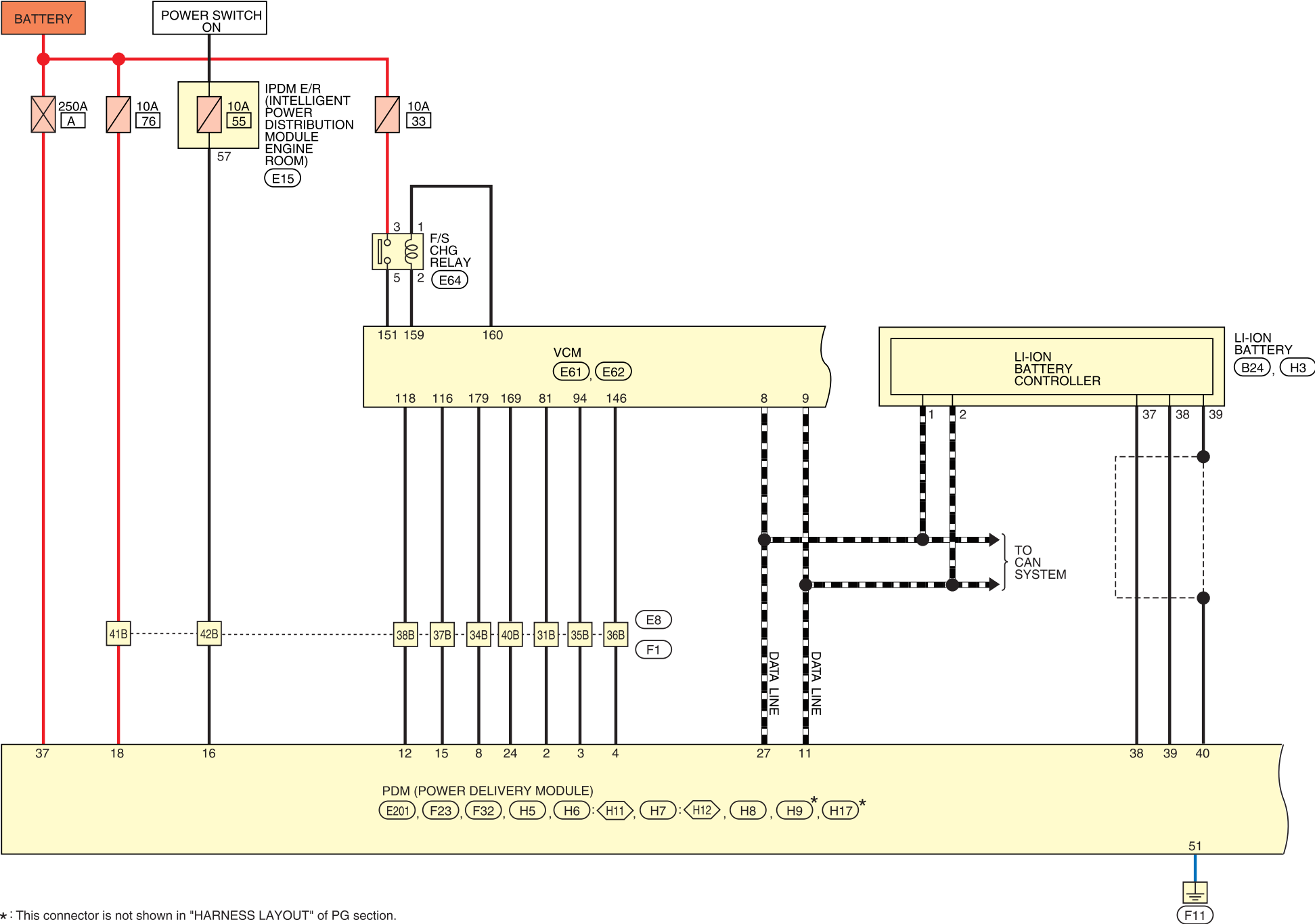
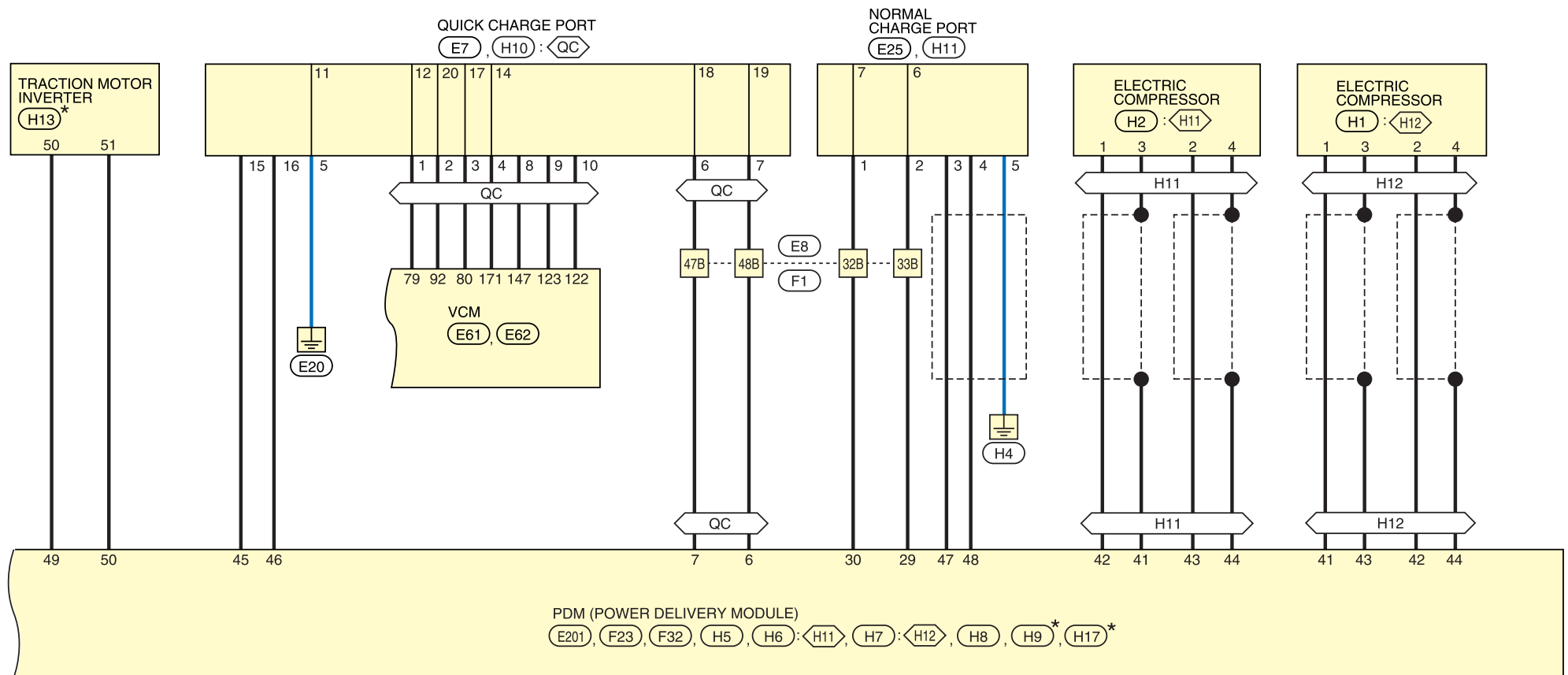


VEHICLE CHARGING SYSTEM



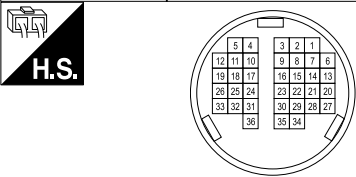
* : This connector is not shown in "HARNESS LAYOUT" of PG section.

- QC : WITH QUICK CHARGE PORT
 H11 : WITH HEAT PUMP
 H12 : WITHOUT HEAT PUMP



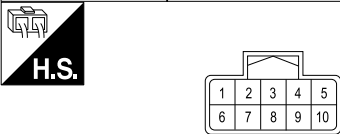
VEHICLE CHARGING SYSTEM CONNECTORS

Connector No.	B24
Connector Name	LI-ION BATTERY
Connector Type	RH36FG-GY
Connector Color	GREEN



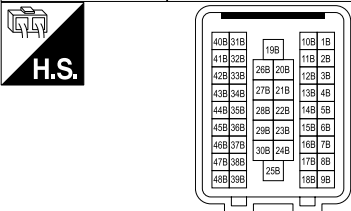
Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	G	CAN-L
3	-	-
4	R	POWER ON POWER SUPPLY
5	SB	12V BATTERY POWER SUPPLY
6	B	GROUND
7	B	GROUND
8	B	GROUND
9	-	-
10	B	PRE-CHARGE RELAY GROUND
11	G	PRE-CHARGE RELAY INPUT
12	-	-
13	B	SYSTEM MAIN RELAY 2 GROUND
14	L	SYSTEM MAIN RELAY 2 INPUT
15	-	-
16	B	SYSTEM MAIN RELAY 1 GROUND
17	Y	SYSTEM MAIN RELAY 1 INPUT
18	-	-
19	-	-
20	-	-
21	-	-
22	-	-
23	-	-
24	-	-
25	-	-
26	-	-
27	-	-
28	-	-
29	-	-
30	-	-
31	P	CHARGING ACTIVATION SIGNAL
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-

Connector No.	E7
Connector Name	QUICK CHARGE PORT
Connector Type	RH10FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	Y	QUICK CHARGER START/STOP SIGNAL 1
2	G	QUICK CHARGER START/STOP SIGNAL 2
3	BR	QUICK CHARGER CONNECTION SIGNAL
4	L	QUICK CHARGER PERMIT SIGNAL
5	B	GROUND
6	W	CAN-H (QUICK CHARGER COMMUNICATION)
7	L	CAN-L (QUICK CHARGER COMMUNICATION)
8	LG	SENSOR GROUND
9	V	QUICK CHARGER PORT TEMPERATURE SENSOR SIGNAL 1
10	SB	QUICK CHARGER PORT TEMPERATURE SENSOR SIGNAL 2

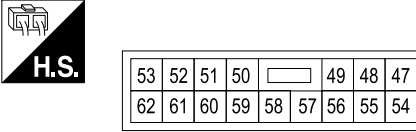
Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAA36MB-RS10-SJZ2
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1B	G	TO ENGINE CONTROL HARNESS
2B	V	TO ENGINE CONTROL HARNESS
3B	P	TO ENGINE CONTROL HARNESS
4B	B	TO ENGINE CONTROL HARNESS
5B	O	TO ENGINE CONTROL HARNESS
6B	L	TO ENGINE CONTROL HARNESS
7B	-	TO ENGINE CONTROL HARNESS
8B	-	TO ENGINE CONTROL HARNESS

9B	GR	TO ENGINE CONTROL HARNESS
10B	L	TO ENGINE CONTROL HARNESS
11B	G	TO ENGINE CONTROL HARNESS
12B	L	TO ENGINE CONTROL HARNESS
13B	G	TO ENGINE CONTROL HARNESS
14B	-	TO ENGINE CONTROL HARNESS
15B	-	TO ENGINE CONTROL HARNESS
16B	-	TO ENGINE CONTROL HARNESS
17B	-	TO ENGINE CONTROL HARNESS
18B	R	TO ENGINE CONTROL HARNESS
19B	-	TO ENGINE CONTROL HARNESS
20B	-	TO ENGINE CONTROL HARNESS
21B	B/R	TO ENGINE CONTROL HARNESS
22B	W	TO ENGINE CONTROL HARNESS
23B	R	TO ENGINE CONTROL HARNESS
24B	B	TO ENGINE CONTROL HARNESS
25B	-	TO ENGINE CONTROL HARNESS
26B	-	TO ENGINE CONTROL HARNESS
27B	P	TO ENGINE CONTROL HARNESS
28B	B/R	TO ENGINE CONTROL HARNESS
29B	G	TO ENGINE CONTROL HARNESS
30B	SB	TO ENGINE CONTROL HARNESS
31B	R	TO ENGINE CONTROL HARNESS
32B	LG	TO ENGINE CONTROL HARNESS
33B	W	TO ENGINE CONTROL HARNESS
34B	V	TO ENGINE CONTROL HARNESS
35B	LG	TO ENGINE CONTROL HARNESS
36B	B	TO ENGINE CONTROL HARNESS
37B	O	TO ENGINE CONTROL HARNESS
38B	P	TO ENGINE CONTROL HARNESS
39B	-	TO ENGINE CONTROL HARNESS
40B	SB	TO ENGINE CONTROL HARNESS
41B	Y	TO ENGINE CONTROL HARNESS
42B	R	TO ENGINE CONTROL HARNESS
43B	-	TO ENGINE CONTROL HARNESS
44B	-	TO ENGINE CONTROL HARNESS
45B	-	TO ENGINE CONTROL HARNESS
46B	-	TO ENGINE CONTROL HARNESS
47B	W	TO ENGINE CONTROL HARNESS
48B	L	TO ENGINE CONTROL HARNESS

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
47	-	-
48	-	-
49	Y	H/LAMP HI RH
50	G	H/LAMP HI LH
51	L	H/LAMP LO LH
52	P	H/LAMP LO RH
53	-	-
54	-	-
55	LG	FAST CHARGE
56	-	-
57	R	VCM IGN
58	O	REVERSE LAMP IGN
59	-	-
60	GR	F/S RLY CONT
61	-	-
62	V	E-ACT/HAS IGN

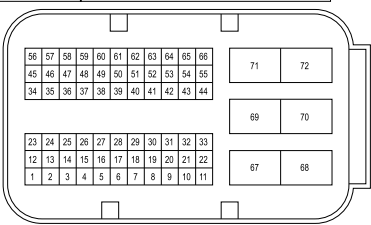
Connector No.	E25
Connector Name	NORMAL CHARGE PORT
Connector Type	RH02FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	LG	EVSE COMMUNICATION (PWM)
2	W	EVSE CONNECTION SIGNAL

VEHICLE CHARGING SYSTEM CONNECTORS

Connector No.	E61
Connector Name	VCM
Connector Type	MUA66FB-MHA6-RH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	-	-
2	-	-
3	-	-
4	-	-
5	L	CAN-H
6	P	CAN-L
7	-	-
8	L	EV SYSTEM CAN-H
9	G	EV SYSTEM CAN-L
10	-	-
11	G	POWER ON POWER SUPPLY
12	-	-
13	-	-
14	-	-
15	Y	IMMEDIATE CHARGING SWITCH
16	-	-
17	W	ELECTRIC SHIFT SENSOR POWER SUPPLY 2
18	W	SENSOR POWER SUPPLY
19	-	-
20	-	-
21	LG	P/N POSITION SIGNAL
22	-	-
23	G	CHARGING STATUS INDICATOR 3
24	-	-
25	-	-
26	-	-
27	BR	CHARGE PORT LID OPENER SWITCH
28	R	ECO MODE SWITCH
29	R	ACCELERATOR PEDAL POSITION SENSOR 2
30	-	-
31	W	READY SIGNAL
32	W	P POSITION SIGNAL
33	W	E-PEDAL SWITCH
34	BR	CHARGING STATUS INDICATOR 2
35	L	PLUG IN INDICATOR LAMP
36	-	-

37	-	-
38	W	BRAKE PEDAL POSITION SWITCH
39	-	-
40	B	SENSOR GROUND
41	SB	PARKING ACTUATOR RELAY A
42	-	-
43	-	-
44	-	-
45	V	CHARGING STATUS INDICATOR 1
46	-	-
47	B	P POSITION SW NO. 2
48	SB	ASCD/CC/PRO PILOT® STEERING SWITCH
49	G	ELECTRIC SHIFT SENSOR NO.6
50	-	-
51	W	ELECTRIC SHIFT SENSOR NO.2
52	G	ELECTRIC SHIFT SENSOR NO.4
53	R	P POSITION SW NO. 1
54	-	-
55	-	-
56	P	STOP LAMP SWITCH
57	-	-
58	W/L	ELECTRIC SHIFT SENSOR GND 2
59	P	ASCD/CC/PRO PILOT® STEERING SWITCH GROUND
60	B	VCM GROUND
61	-	-
62	-	-
63	-	-
64	-	-
65	-	-
66	BR	12V BATTERY POWER SUPPLY
67	SB	MOTOR COIL A V-PHASE
68	B	MOTOR COIL A U-PHASE
69	B/R	VCM GROUND
70	-	-
71	B/R	VCM GROUND
72	R	MOTOR COIL A W-PHASE

VEHICLE CHARGING SYSTEM CONNECTORS

Connector No.	E62
Connector Name	VCM
Connector Type	MUA78FB-MCA36-RH
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
73	R	POWER ON POWER SUPPLY
74	L	N POSITION OUTPUT (SELECT INDICATOR)
75	R	D POSITION OUTPUT (SELECT INDICATOR)
76	-	-
77	-	-
78	-	-
79	Y	QUICK CHARGER START/STOP SIGNAL 1
80	BR	QUICK CHARGER CONNECTING SIGNAL
81	R	QUICK CHARGER VOLTAGE SENSOR 1
82	B	P POSITION OUTPUT (SELECT INDICATOR)
83	B	REFRIDGERANT PRESSURE SENSOR
84	Y	BATTERY CURRENT SENSOR
85	-	-
86	R	CHARGE PORT LID OPENER ACTUATOR RELAY
87	O/L	ELECTRIC SHIFT SENSOR POWER SUPPLY 1
88	B	ENCODER POWER SUPPLY
89	-	-
90	-	-
91	L	BATTERY TEMPERATURE SENSOR
92	G	QUICK CHARGER START/STOP SIGNAL 2
93	-	-
94	LG	SENSOR POWER SUPPLY
95	W	SENSOR POWER SUPPLY
96	SB	SENSOR POWER SUPPLY
97	R	SENSOR POWER SUPPLY
98	-	-
99	-	-
100	-	-
101	W	ELECTRIC SHIFT SENSOR NO.5
102	R	ELECTRIC SHIFT SENSOR NO.3
103	B	ELECTRIC SHIFT SENSOR NO.1
104	-	-

105	-	-
106	-	-
107	-	-
108	R	ACCELERATOR PEDAL POSITION SENSOR 1
109	-	-
110	-	-
111	W	WATER PUMP SIGNAL
112	-	-
113	V	ENCODER SIGNAL A
114	P	ENCODER SIGNAL B
115	-	-
116	O	CONNECTION DETECTING CIRCUIT SIGNAL
117	-	-
118	P	CONNECTION DETECTING CIRCUIT POWER SUPPLY
119	Y	R POSITION OUTPUT (SELECT INDICATOR)
120	-	-
121	B	SENSOR GROUND
122	SB	QUICK CHARGER PORT TEMPERATURE SENSOR SIGNAL 2
123	V	QUICK CHARGER PORT TEMPERATURE SENSOR SIGNAL 1
124	-	-
125	-	-
126	-	-
127	-	-
128	-	-
129	-	-
130	-	-
131	-	-
132	-	-
133	-	-
134	-	-
135	-	-
136	-	-
137	-	-
138	G	ENCODER GROUND
139	O	ELECTRIC SHIFT SENSOR GND 1
140	-	-
141	-	-
142	-	-
143	-	-
144	B	VCM GROUND
145	-	-
146	B	QUICK CHARGE VOLTAGE SENSOR GROUND
147	LG	SENSOR GROUND
148	BR	SENSOR GROUND
149	L	SENSOR GROUND
150	-	-
151	GR	F/S CHG RELAY
152	SB	CHARGE CONNECTOR LOCK RELAY
153	-	-

154	W	CHARGE CONNECTOR LOCK ACTUATOR (-)
155	LG	CHARGE CONNECTOR LOCK ACTUATOR (+)
156	R	CHARGE CONNECTOR LOCK RELAY POWER SUPPLY
157	V	COOLING FAN CONTROL SIGNAL
158	-	-
159	LG	F/S RELAY POWER SUPPLY
160	W	F/S CHG RELAY
161	Y	SYSTEM MAIN RELAY 2
162	-	-
163	-	-
164	-	-
165	SB	REVERSE LAMP RELAY
166	SB	M/C RELAY
167	-	-
168	GR	F/S RELAY
169	SB	QUICK CHARGE RELAY (-)
170	-	-
171	L	QUICK CHARGER PERMIT SIGNAL
172	-	-
173	-	-
174	B	PRE-CHARGE RELAY
175	-	-
176	GR	CHARGE PORT LIGHT
177	-	-
178	-	-
179	V	QUICK CHARGE RELAY (+)
180	G	WATER PUMP SIGNAL
181	-	-
182	W	SYSTEM MAIN RELAY 1
183	-	-
184	-	-
185	BR	A/C RLY
186	R	12V BATTERY POWER SUPPLY

Connector No.	E64
Connector Name	F/S CHG RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	W	F/S CHG RELAY
2	LG	F/S RELAY POWER SUPPLY
3	W	BATTERY

5	GR	QCRLY
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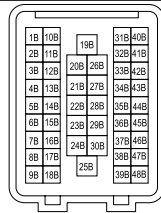
Connector No.	E201
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340-EN013
Connector Color	-



Terminal No.	Color of Wire	Signal Name
37	B/R	BFT (+)

VEHICLE CHARGING SYSTEM CONNECTORS

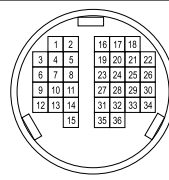
Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA36FB-RS10-SJZ2
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1B	G	TO ENGINE ROOM HARNESS
2B	O	TO ENGINE ROOM HARNESS
3B	W	TO ENGINE ROOM HARNESS
4B	R	TO ENGINE ROOM HARNESS
5B	Y	TO ENGINE ROOM HARNESS
6B	L	TO ENGINE ROOM HARNESS
7B	-	TO ENGINE ROOM HARNESS
8B	-	TO ENGINE ROOM HARNESS
9B	SHIELD	TO ENGINE ROOM HARNESS
10B	L	TO ENGINE ROOM HARNESS
11B	G	TO ENGINE ROOM HARNESS
12B	L	TO ENGINE ROOM HARNESS
13B	G	TO ENGINE ROOM HARNESS
14B	-	TO ENGINE ROOM HARNESS
15B	-	TO ENGINE ROOM HARNESS
16B	-	TO ENGINE ROOM HARNESS
17B	-	TO ENGINE ROOM HARNESS
18B	LG	TO ENGINE ROOM HARNESS
19B	-	TO ENGINE ROOM HARNESS
20B	-	TO ENGINE ROOM HARNESS
21B	B	TO ENGINE ROOM HARNESS
22B	W	TO ENGINE ROOM HARNESS
23B	LG	TO ENGINE ROOM HARNESS
24B	B	TO ENGINE ROOM HARNESS
25B	-	TO ENGINE ROOM HARNESS
26B	-	TO ENGINE ROOM HARNESS
27B	G	TO ENGINE ROOM HARNESS
28B	B	TO ENGINE ROOM HARNESS
29B	G	TO ENGINE ROOM HARNESS
30B	SB	TO ENGINE ROOM HARNESS
31B	R	TO ENGINE ROOM HARNESS
32B	BR	TO ENGINE ROOM HARNESS
33B	W	TO ENGINE ROOM HARNESS
34B	V	TO ENGINE ROOM HARNESS
35B	LG	TO ENGINE ROOM HARNESS
36B	B	TO ENGINE ROOM HARNESS
37B	O	TO ENGINE ROOM HARNESS
38B	P	TO ENGINE ROOM HARNESS

39B	-	TO ENGINE ROOM HARNESS
40B	SB	TO ENGINE ROOM HARNESS
41B	R	TO ENGINE ROOM HARNESS
42B	V	TO ENGINE ROOM HARNESS
43B	-	TO ENGINE ROOM HARNESS
44B	-	TO ENGINE ROOM HARNESS
45B	-	TO ENGINE ROOM HARNESS
46B	-	TO ENGINE ROOM HARNESS
47B	W	TO ENGINE ROOM HARNESS
48B	L	TO ENGINE ROOM HARNESS

Connector No.	F23
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	RH36FG-GY
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
1	-	-
2	R	QUICK CHARGE VOLTAGE SENSOR 1
3	LG	QUICK CHARGE VOLTAGE SENSOR 2
4	B	QUICK CHARGE VOLTAGE SENSOR GND
5	-	-
6	L	CAN-L (QUICK CHARGER COMMUNICATION)
7	W	CAN-H (QUICK CHARGER COMMUNICATION)
8	V	QUICK CHARGE RELAY (+)
9	-	-
10	-	-
11	G	CAN-L (EV SYSTEM)
12	P	HIGH VOLTAGE HARNESS CONNECTOR CONNECTION DETECTING CIRCUIT POWER SUPPLY
13	-	-
14	-	-
15	O	HIGH VOLTAGE HARNESS CONNECTOR CONNECTION DETECTING CIRCUIT SIGNALS
16	V	POWER ON POWER SUPPLY
17	-	-
18	R	12V BATTERY POWER SUPPLY
19	-	-
20	-	-
21	-	-

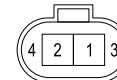
22	-	-
23	-	-
24	SB	QUICK CHARGE RELAY (-)
25	-	-
26	-	-
27	L	CAN-H (EV SYSTEM)
28	-	-
29	W	EVSE CONNECTING SIGNAL
30	BR	EVSE COMMUNICATION (PWM)
31	-	-
32	-	-
33	-	-
34	-	-
35	-	-
36	-	-

Connector No.	F32
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340-EN013
Connector Color	-



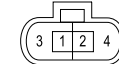
Terminal No.	Color of Wire	Signal Name
51	B/Y	BFT (-)

Connector No.	H1
Connector Name	ELECTRIC COMPRESSOR (WITHOUT HEAT PUMP)
Connector Type	TM02FOR
Connector Color	ORANGE



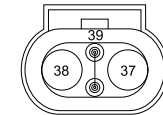
Terminal No.	Color of Wire	Signal Name
1	O	AC COMP P
2	O	AC COMP N
3	SHIELD	SHIELD
4	SHIELD	SHIELD

Connector No.	H2
Connector Name	ELECTRIC COMPRESSOR (WITH HEAT PUMP)
Connector Type	SHZ02FOR
Connector Color	ORANGE



Terminal No.	Color of Wire	Signal Name
1	O	AC COMP N
2	O	AC COMP P
3	SHIELD	SHIELD
4	SHIELD	SHIELD

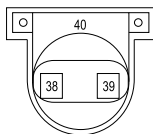
Connector No.	H3
Connector Name	LI-ION BATTERY
Connector Type	24342-3NF1A
Connector Color	ORANGE



Terminal No.	Color of Wire	Signal Name
37	O	HV BAT (+)
38	O	HV BAT (-)
39	SHIELD	SHIELD

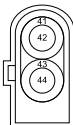
VEHICLE CHARGING SYSTEM CONNECTORS

Connector No.	H5
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340 3NF1B
Connector Color	ORANGE



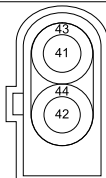
Terminal No.	Color of Wire	Signal Name
38	O	HV BAT (+)
39	O	HV BAT (-)
40	SHIELD	SHIELD

Connector No.	H6
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340 3NF0E
Connector Color	ORANGE



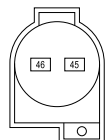
Terminal No.	Color of Wire	Signal Name
41	O	AC COMP P
42	O	AC COMP N
43	SHIELD	SHIELD
44	SHIELD	SHIELD

Connector No.	H7
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340-3NF0E
Connector Color	ORANGE



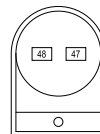
Terminal No.	Color of Wire	Signal Name
41	O	AC COMP P
42	O	AC COMP N
43	SHIELD	SHIELD
44	SHIELD	SHIELD

Connector No.	H8
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340 3NF1A
Connector Color	ORANGE



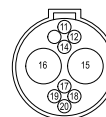
Terminal No.	Color of Wire	Signal Name
45	O	Q-CHG P
46	O	Q-CHG N

Connector No.	H9
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340 3NF0D
Connector Color	ORANGE



Terminal No.	Color of Wire	Signal Name
47	O	N-CHG P
48	O	N-CHG N

Connector No.	H10
Connector Name	QUICK CHARGE PORT
Connector Type	24342-3NA1D
Connector Color	ORANGE



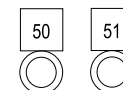
Terminal No.	Color of Wire	Signal Name
11	B	GROUND
12	Y	QUICK CHARGER START/STOP SIGNAL 1
14	L	QUICK CHARGER PERMIT SIGNAL
15	O	Q-CHG P
16	O	Q-CHG N
17	BR	QUICK CHARGER CONNECTION SIGNAL
18	W	CAN-H (QUICK CHARGER COMMUNICATION)
19	L	CAN-L (QUICK CHARGER COMMUNICATION)
20	G	QUICK CHARGER START/STOP SIGNAL 2

Connector No.	H11
Connector Name	NORMAL CHARGE PORT
Connector Type	24341-3NAOC
Connector Color	ORANGE



Terminal No.	Color of Wire	Signal Name
3	O	N-CHG N
4	O	N-CHG P
5	G	GROUND
6	W	EVSE CONNECTION SIGNAL
7	LG	EVSE COMMUNICATION (PWM)

Connector No.	H13
Connector Name	TRACTION MOTOR INVERTER
Connector Type	24340-EN013
Connector Color	ORANGE



Terminal No.	Color of Wire	Signal Name
50	O	INVERTER LINE (P)
51	O	INVERTER LINE (N)

VEHICLE CHARGING SYSTEM CONNECTORS

Connector No.	H17
Connector Name	PDM (POWER DELIVERY MODULE)
Connector Type	24340-EN013
Connector Color	ORANGE



Terminal No.	Color of Wire	Signal Name
49	O	INVERTER LINE (P)
50	O	INVERTER LINE (N)