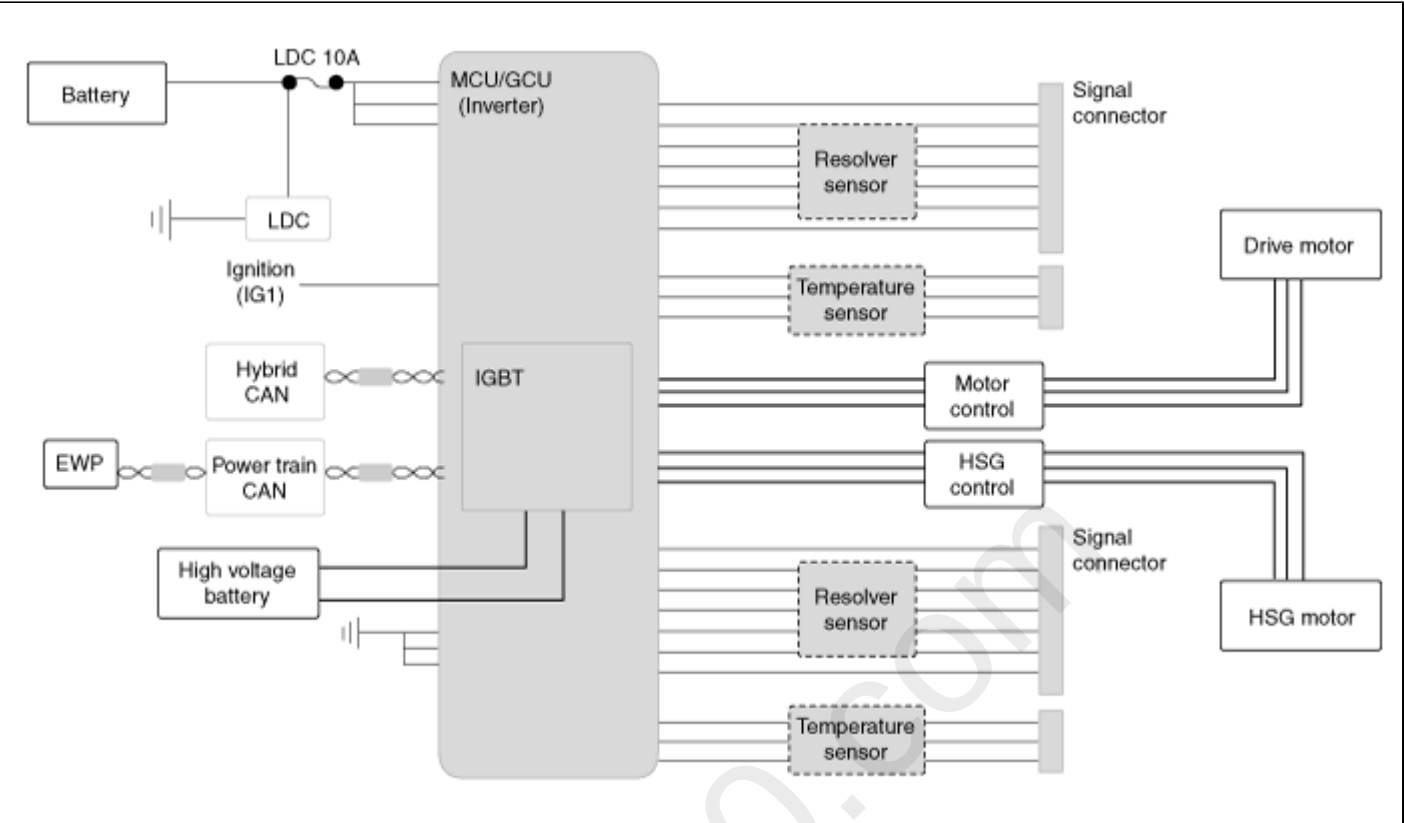
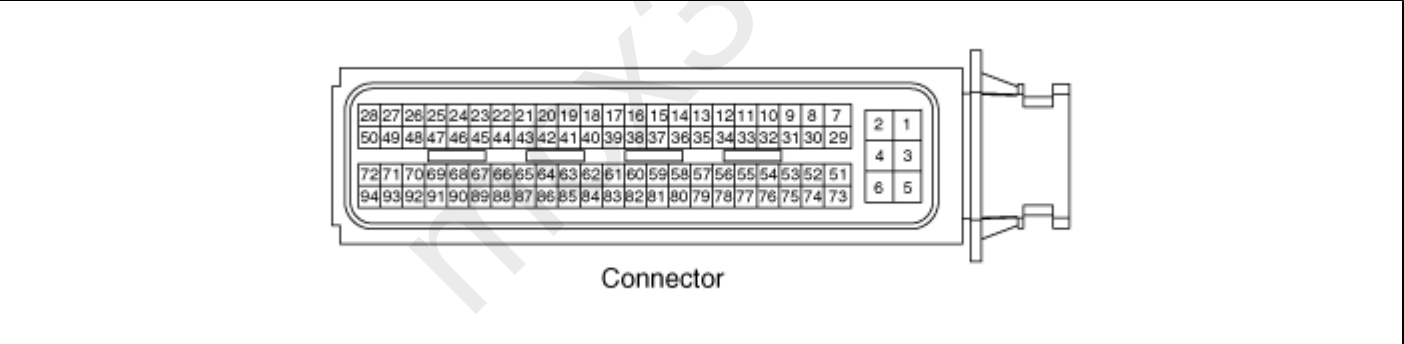


Diagram System Circuit

A high-capacity power module is applied to the two high-voltage motors. The power module consists of a high - speed switching circuit that is isolated from the IGBT and DIODE circuits. The capacity of the high-voltage battery is approx. 270V. But the power module needs to use a voltage of maximum 650V to ensure stability and reliability.



MCU terminal input/output signal connector



Functions of MCU Terminal

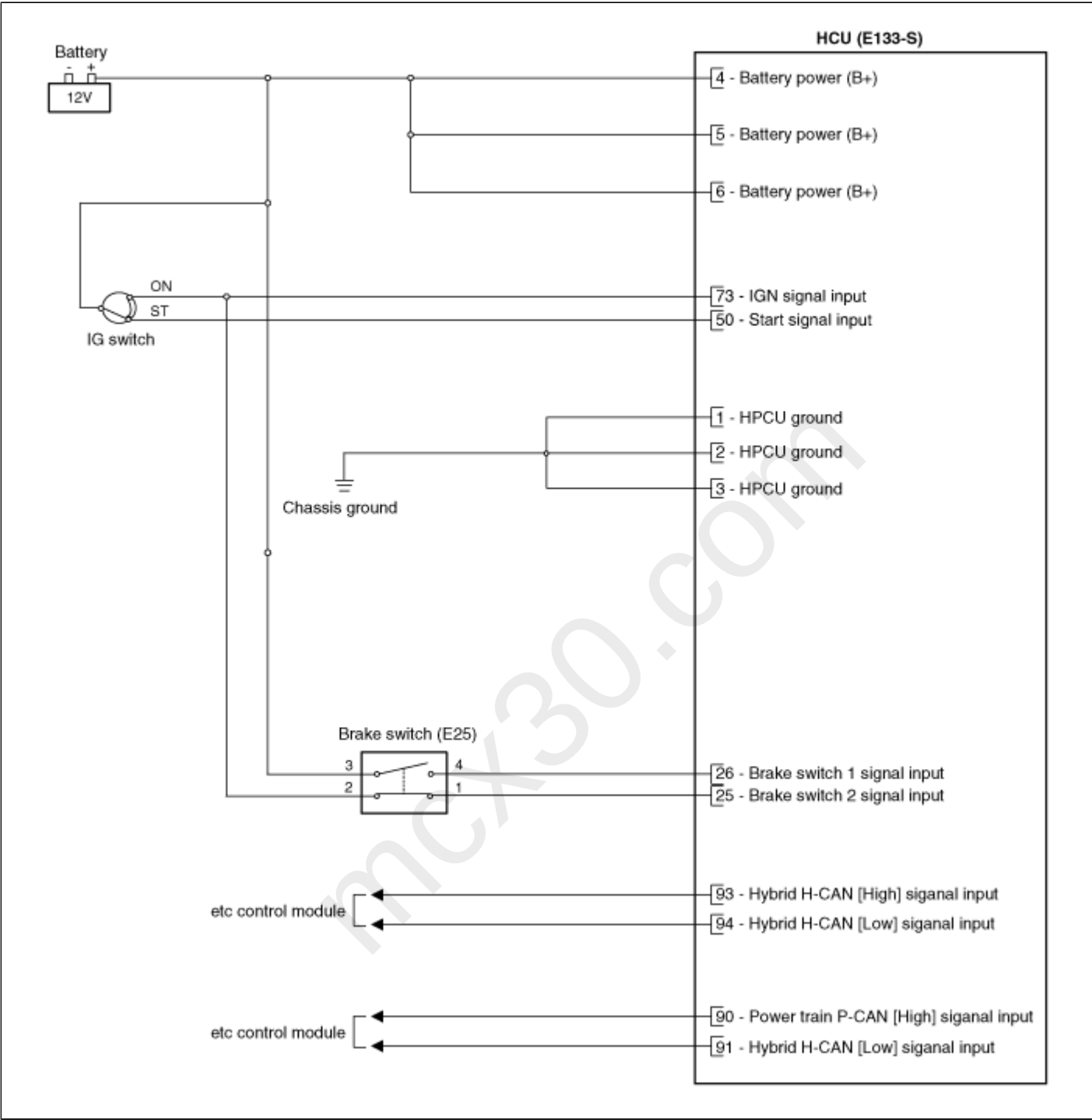
Connector [HPCU-S]

Terminal	Description	Usage
1	HPCU ground	Chassis ground
2	HPCU ground	Chassis ground
3	HPCU ground	Chassis ground
4	Battery power (B+)	Battery
5	Battery power (B+)	Battery
6	Battery power (B+)	Battery
7	Wake Up signal	Engine Control Module (ECM)
8	-	
9	-	

10	-	
11	-	
12	-	
13	-	
14	-	
15	-	
16	-	
17	-	
18	-	
19	HEV relay state	Integrated Body Control Unit (IBU)
20	-	
21	-	
22	-	
23	-	
24	-	
25	Brake switch 2 signal input	Brake switch (NC, IG1)
26	Brake switch 1 signal input	Brake switch (NO, B+)
27	-	
28	-	
29	-	
30	-	
31	-	
32	Sensor ground	HSG temperature
33	HSG temperature sensor signal input	HSG temperature
34	Sensor shield	HSG temperature
35	-	
36	-	
37	-	
38	Sensor shield	Motor temperature sensor
39	Motor temperature sensor signal input	Motor temperature sensor
40	Sensor shield	Motor temperature sensor
41	-	
42	-	
43	-	
44	-	
45	-	
46	ON/START power	Smart key unit
47	-	
48	-	
49	-	
50	Start signal input	Intergrade Body Control Unit (IBU)

51	-	
52	HSG resolver (SNSR 1)	HSG resolver
53	HSG resolver (SNSR 3)	HSG resolver
54	HSG resolver (SNSR 2)	HSG resolver
55	HSG resolver (SNSR 4)	HSG resolver
56	Shield	HSG resolver
57	-	
58	Motor resolver (SNSR 1)	Motor resolver
59	Motor resolver (SNSR 3)	Motor resolver
60	Motor resolver (SNSR 2)	Motor resolver
61	Motor resolver (SNSR 4)	Motor resolver
62	Shield	Motor resolver
63	-	
64	-	
65	-	
66	-	
67	Electric water pump (LIN)	Electric water pump
68	-	
69	-	
70	-	
71	-	
72	-	
73	IGN signal input	Smart key unit
74	-	
75	-	
76	-	
77	HSG resolver (+)	HSG resolver
78	HSG resolver (-)	HSG resolver
79	-	
80	-	
81	-	
82	-	
83	Motor resolver (+)	Motor resolver
84	Motor resolver (-)	Motor resolver
85	-	
86	-	
87	L-CAN [High]	Clutch actuator
88	L-CAN [Low]	Clutch actuator
89	-	
90	Power train P-CAN [High] signal input	etc control module
91	Power train P-CAN [Low] signal input	etc control module

92	-	
93	Hybrid H-CAN [High] siganal input	etc control module
94	Hybrid H-CAN [Low] siganal input	etc control module



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