

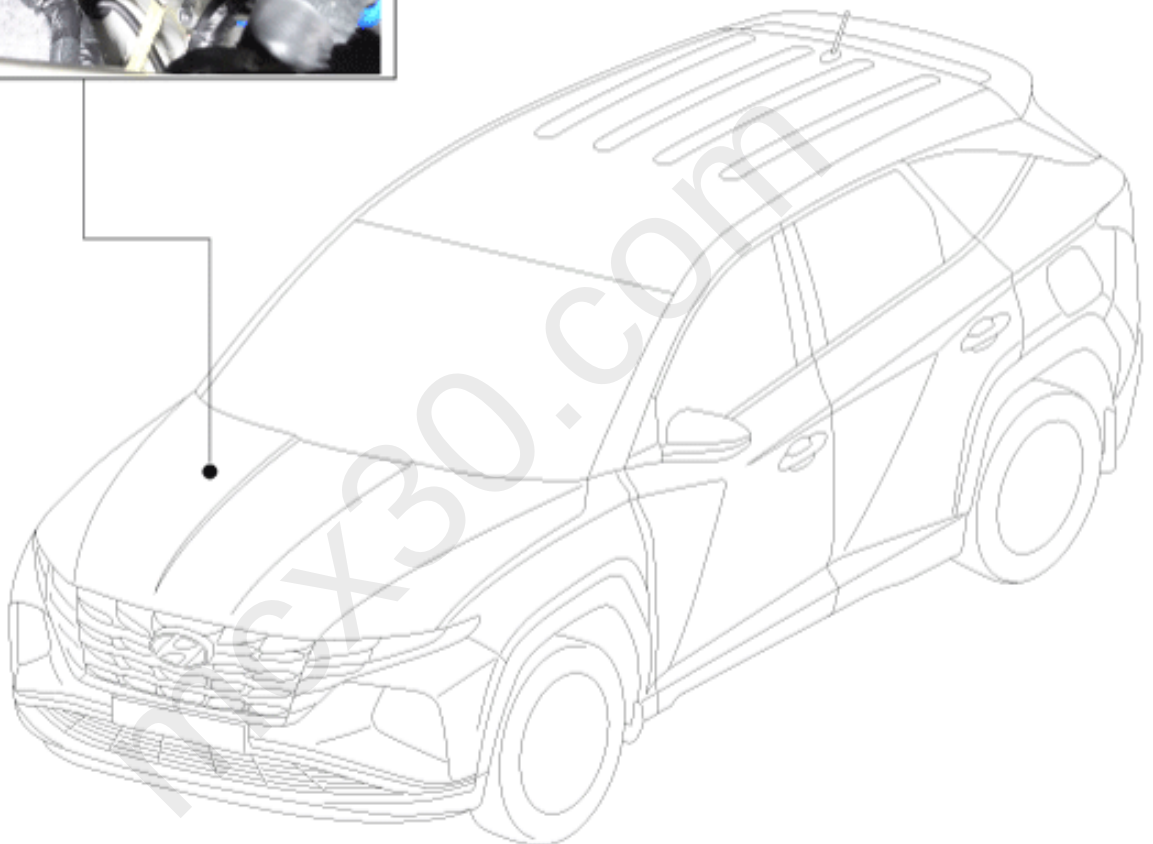
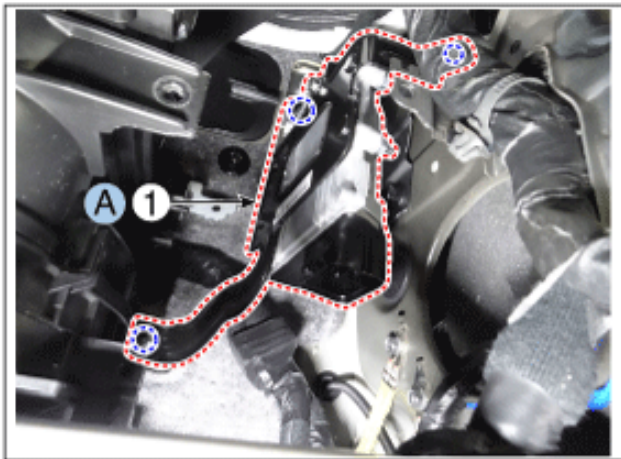
Description

•Function

The transaxle Control Module (TCM) is like the brain for the Intelligent Manual transaxle (IMT). It receives information from various sensors for a wide range of transaxle controls to provide an optimal driving environment for the driver. The TCM is programmed for optimal operation in all driving conditions. If the TCM malfunctions, store the failure information in memory and provide the error information to a mechanic for fast and accurate repair.

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Components and Components
Location



Tightening torque : N.m (kgf.m, lb-ft)
A : 9.8 - 11.8 (1.0 - 1.2, 7.2 - 8.7)

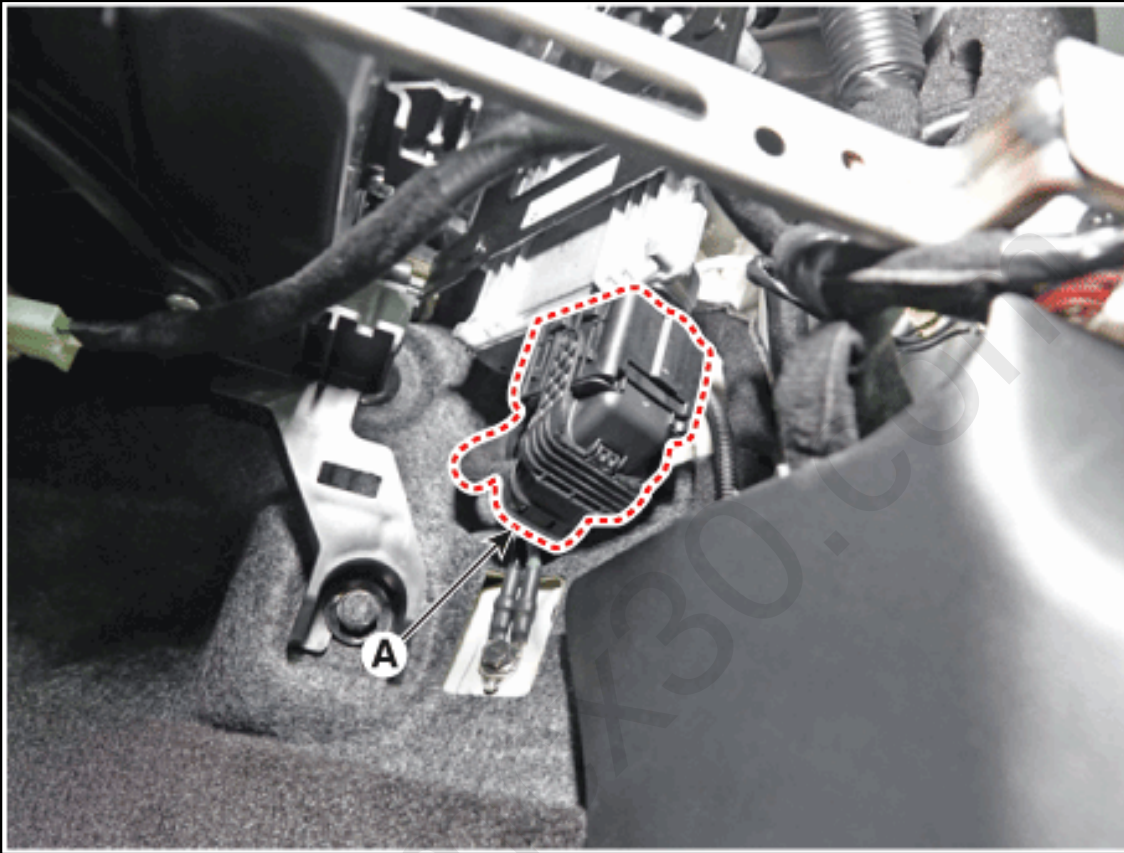
1. Transaxle Control Module (TCM)

Connector and Terminal Information

Pin	Function	Pin	Function
1	Battery voltage	21	-
2	-	22	-
3	Local 1 CAN High	23	Clutch motor hall 3 (W)
4	Local 1 CAN Low	24	-
5	P-CAN High	25	PWR for gear position sensor (5 V)
6	P-CAN Low	26	PWR for speed sensor (9V)
7	Intension / Pedal sensor ground	27	Signal (Gear select #1)
8	Gear position sensor ground	28	Signal (Gear select #2)
9	-	29	-
10	Intension sensor power (5 V)	30	-
11	Hall sensor power (5 V)	31	-
12	IG 1	32	Signal (Gear shift #1)
13	Clutch motor hall 2 (V)	33	Clutch motor L1 (U)
14	Clutch motor hall 2 (U)	34	Clutch motor L2 (V)
15	Clutch motor hall ground	35	Clutch motor L3 (W)
16	-	36	Battery voltage (Motor)
17	-	37	-
18	Signal (Input speed)	38	Ground (Motor)
19	Signal (Intension #1)	39	-
20	Signal (Intension #2)	40	Ground

Removal

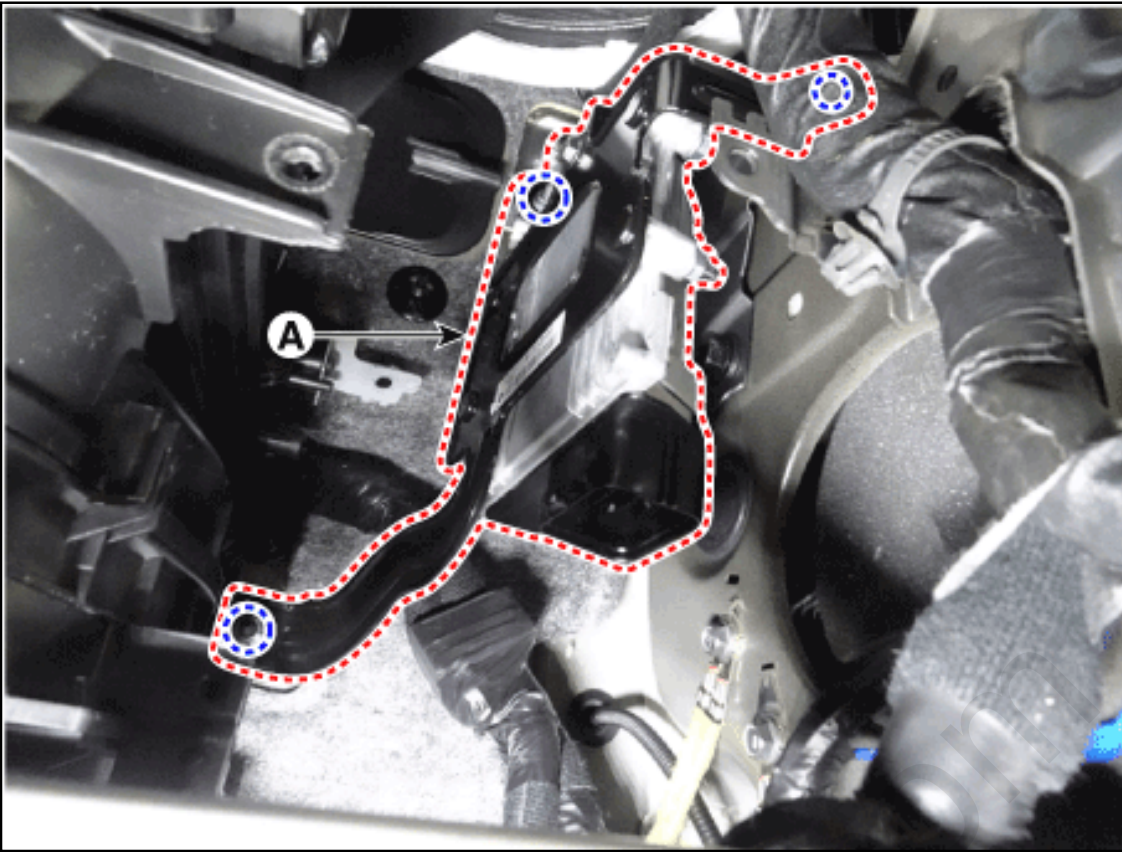
1. Turn OFF ignition switch and disconnect the negative (-) battery cable.
2. Remove the glove box.
(Refer to Body (Interior and Exterior) - "Glove Box")
3. Remove the integrated body control unit (IBU).
(Refer to Body Electrical System - "Integrated Body Control Unit (IBU)")
4. Remove the heater control unit.
(Refer to Heating, Ventilation And Air Conditioning - "Heater Unit")
5. Disconnect the TCM connector (A).



6. Loosen the nuts and bolt and then removing the TCM (A).

Tightening torque :

9.8 - 11.8 N.m (1.0 - 1.2 kgf.m, 7.2 - 8.7 lb-ft)



Installation

1. To install, reverse the removal procedures.
2. After mounting, perform the IMT system learning procedures.

(Refer to IMT(intelligent Manual Transaxle) Control System – "IMT System Learning Procedures")