HYUNDAI | NEW THINKING. NEW POSSIBILITIES.

Technical Service Bulletin

GROUP	NUMBER
AUTOMATIC TRANSMISSION	**12-AT-024**
DATE	MODEL
OCTOBER 2012	**GENESIS SEDAN (BH) GENESIS COUPE (BK)**

SUBJECT: ATM INPUT, MIDDLE AND OUTPUT SPEED SENSOR DTC P0717, P0721, P0722 & P0791

This TSB supersedes TSB 11-AT-015-1 to add Genesis Coupe.

Description: The Genesis Sedan and Genesis Coupe are equipped with an 8-speed transmission. Do not replace the transmission for the DTC listed below. Instead, follow the repair procedure and replace the related part.

Applicable Vehicles:
2012~ Genesis Sedan 3.8L/4.6L/5.0L
2013~ Genesis Coupe 2.0L/3.8L

DTC LIST:

DTC	DESCRIPTION.
P0717	Input/Turbine Speed Sensor 'A' Circuit No Signal
P0721	Output Speed Sensor Circuit Range/Performance
P0722	Output Speed Sensor Circuit No Signal
P0791	Middle Speed Sensor Circuit No Signal

PARTS INFORMATION:

MODEL	PNC	PART NUMBER	DESCRIPTION
2012~ GENESIS SEDAN 3.8L	46305C	46305-4F100	E-Module
2012~ GENESIS SEDAN 4.6L/5.0L	46305C	46305-4E100	E-Module
2013~ GENESIS COUPE 2.0L/3.8L	46305C	46305-4F100	E-Module

WARRANTY INFORMATION:

OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
45600R00	Replace valve body assy.	1.4	See Parts Information	N27	C15
45600RQ0	GDS Operation	0.3			

Circulate To: Service Manager, Warranty Manager, Service Advisors, Technicians, Fleet Repair

SUBJECT: ATM INPUT, MIDDLE AND OUTPUT SPEED SENSOR DTC P0717, P0721, P0722 & P0791

SERVICE PROCEDURE:

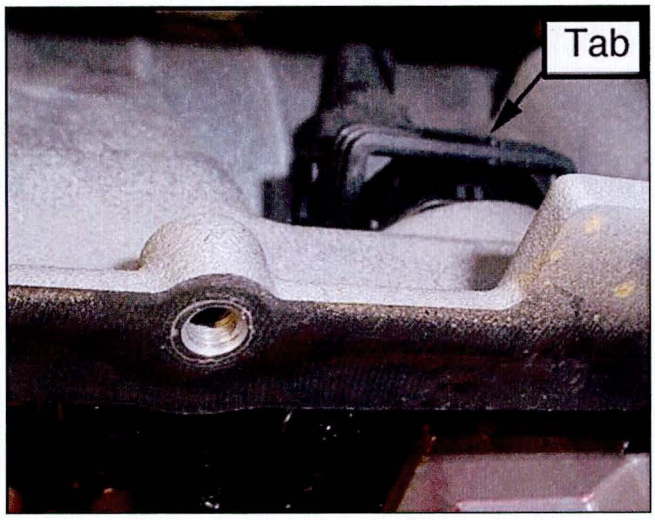
1. Using a GDS, check for DTC in the "Automatic Transaxle" menu. Record the DTC and description. Delete the DTC.
2. From the GDS, select the following parameters. Drive the vehicle and monitor the sensors.
   - Vehicle and A/T menu.
   - "Current Data"
   - Input speed and output speed sensors.
3. 

4. If the sensors show:
   - Continuous and changing output with changes in vehicle speed, the wiring **currently** has no open/short circuits. Go to Step 6.
   - No continuous and changing output, go to Step 5.
5. Visually check the wiring harness between the PCM and transmission for a damaged wire or connector. Check for a short circuit to ground.
   - If damage exists, repair or replace the ECM control harness and drive the vehicle to confirm the repair.
   - If not, go to Step 6.
6. Disconnect the negative battery terminal.

7. Lift the vehicle on a hoist.

   Press the tab in the center of the latch and push the latch upward.

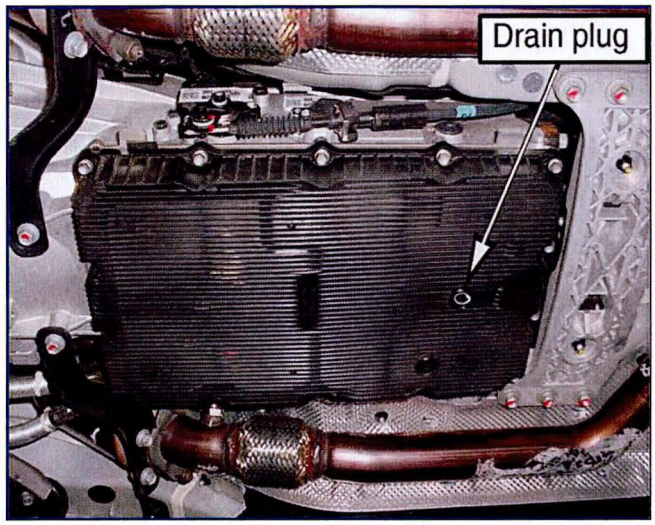
   Push the connector up to disconnect the connector.



8. Use an 8mm or 5/16" hex socket and remove the drain plug and drain the ATF.

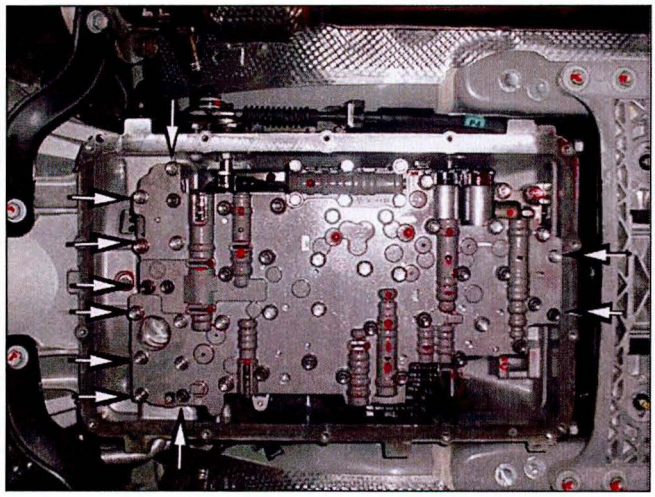
   Remove the 14 bolts that secure the oil pan and remove the pan.

   Torque: 6~7 lb.ft (0.9~1.0 kgf.m)



9. Remove the 10 bolts that secure the valve body to the case and remove the valve body.

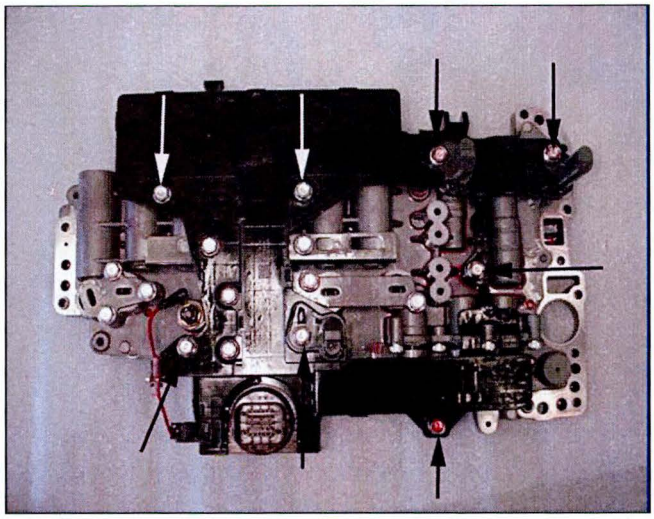
   Note the location of the 3 black extra length bolts.



10. Remove 8 bolts and remove the E-Module.

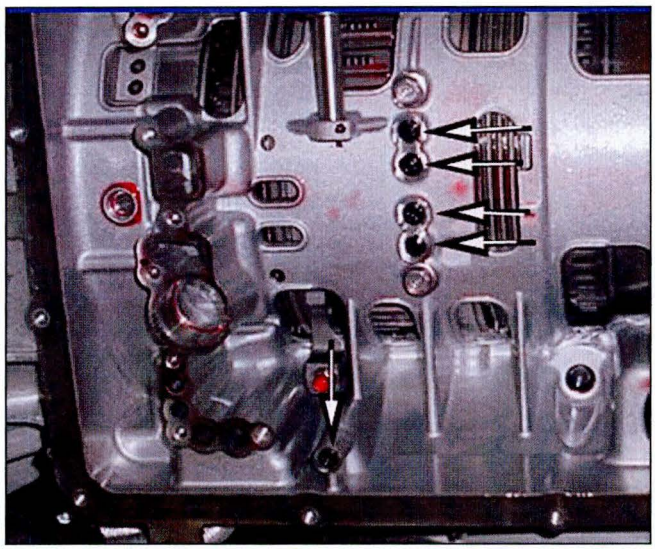
    Install the new E-Module and torque the bolts to specification.

    Torque: 6~7 lb.ft (0.9~1.0 kgf.m)

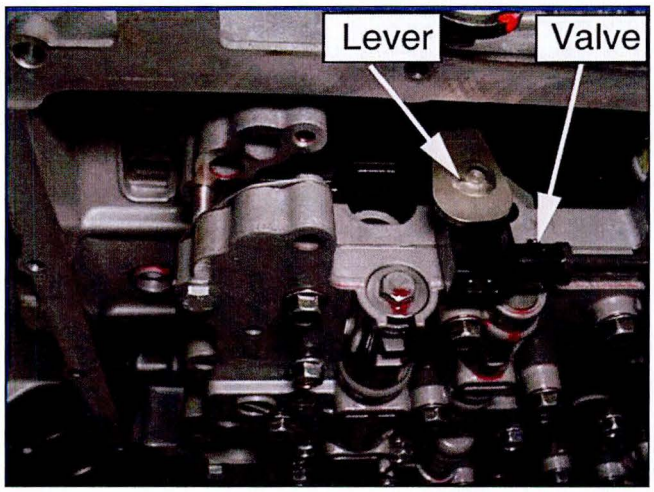


ASSEMBLY

11. Confirm that 5 o-rings are seated in the case.



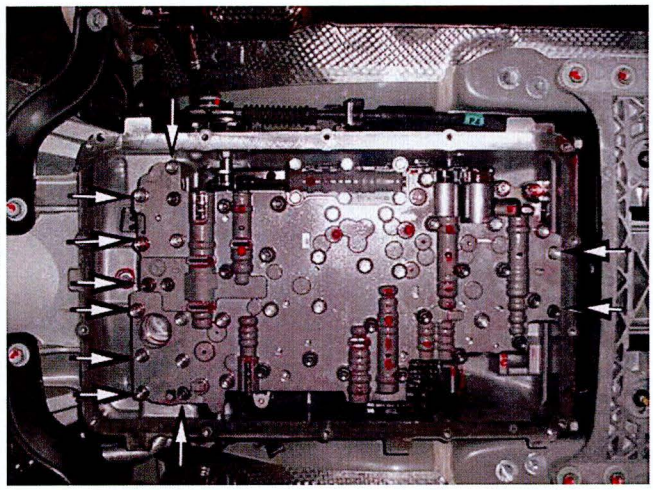
12. Align the manual valve to the shift lever and install the valve body.



13. Install 10 bolts and torque to specification.

    Install the 3 black bolts in the correct location.

    Torque: 7.2~8.7 lb.ft (1.0~1.2 kgf.m)



14. Reconnect the harness connector and pull the latch down until it clicks (See Step 7).

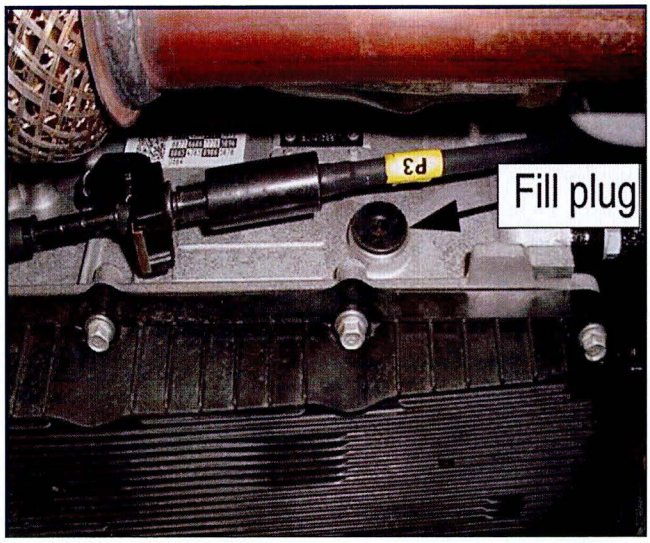
15. Install the oil pan and torque the bolts to specification
    Torque: 6~7 lb.ft (0.9~1.0 kgf.m)

16. Reinstall the negative battery terminal.

17. Use an 8mm or 5/16" hex socket and remove the fill plug and washer.

    Shift into Park and lift the vehicle on a hoist.

    Use a fluid pump or suction gun to add approximately 4 quarts of SPH-IV-**RR** ATF through the fill plug.



★ NOTE

Use only SPH-IV-RR ATF, P/N 00232-19052.

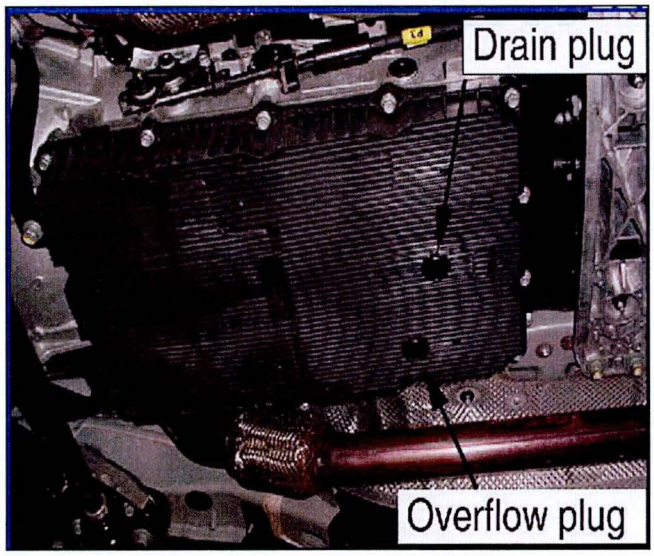
18. Remove the overflow plug.

    Start the engine.

    Add approximately 4~5 additional quarts of SPH-IV-**RR** ATF through the fill plug until the ATF flows out.

    Reinstall the fill plug and washer.
    Torque: 25~32 lb-ft (3.5~4.5 kgf.m)

    Reinstall the overflow plug.
    Torque: 16~18 lb-ft (2.3~2.5 kgf.m)

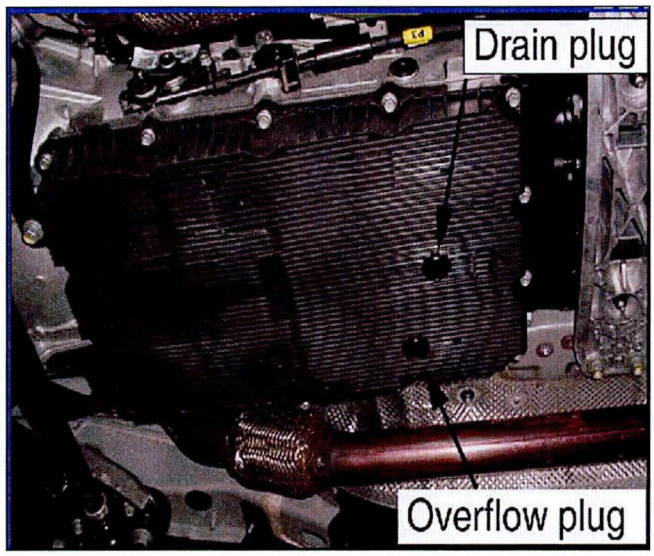


19. Attach a GDS and select vehicle, A/T menu, Current Data and Oil Temperature Sensor.

20. Drive the vehicle until the ATF is at the low end of the range of 122~140°F (50~60°C).

21. Move the shift lever to "P" and leave the engine idling. Raise the vehicle on a hoist.

    Remove the overflow plug. The ATF level is correct when the ATF flows out in a steady, thin stream.



ATF TEMPERATURE = 122~140°F (50~60°C)
SHIFT LEVER IN "P" AND ENGINE RUNNING

22. Attach a GDS and erase any DTC.

22. Drive the vehicle to confirm the proper operation of the transmission.