HYUNDAI NEW THINKING. NEW POSSIBILITIES. **Technical Service Bulletin**	GROUP **AUTOMATIC TRANSMISSION**	NUMBER **14-AT-007**
	DATE **MAY 2014**	MODEL **Genesis Sedan (BH/DH) Genesis Coupe (BK) Equus (VI)**
SUBJECT:	AUTOMATIC TRANSMISSION (8-SPEED) INHIBITOR SWITCH DTC P0705 & P0706	

This TSB supersedes TSB 13-AT-015 to add the 2015 Genesis (DH)

Description: An improperly adjusted or improperly operating inhibitor switch (range switch) may result in the following conditions. This bulletin provides the procedure to inspect and replace the inhibitor switch, if necessary.

- Malfunction Indicator Light (MIL) illuminated
- Diagnostic trouble codes:
  - P0705 - Range switch sensor circuit
  - P0706 - Range switch range/performance
- No engine crank in "P" or "N"

Applicable Vehicles: 2012~14 Genesis Sedan (BH), 2012~ Equus (VI), 2013~ Genesis Coupe (BK) and 2015~ Genesis Sedan (DH)

Parts Information:

Model	PNC Code	Part Number
2012~14 Genesis Sedan (BH)	45956B	42700-4E000
2015~ Genesis Sedan (DH)		42700-4E000
2012~ Equus (VI)		42700-4E000
2013~ Genesis Coupe (BK)		42700-4E000

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part	Nature Code	Cause Code
2012~14 Genesis Sedan (BH)	42700R00	Replace inhibitor (range) switch	0.3	42700-4E000	N69	C15
2012~ Equus (VI)						
2013~ Genesis Coupe (BK)						
2015~ Genesis Sedan 3.8L (DH)			0.4			
2015~ Genesis Sedan 5.0L (DH)			0.6			
All	42700RQ0	GDS	0.3			

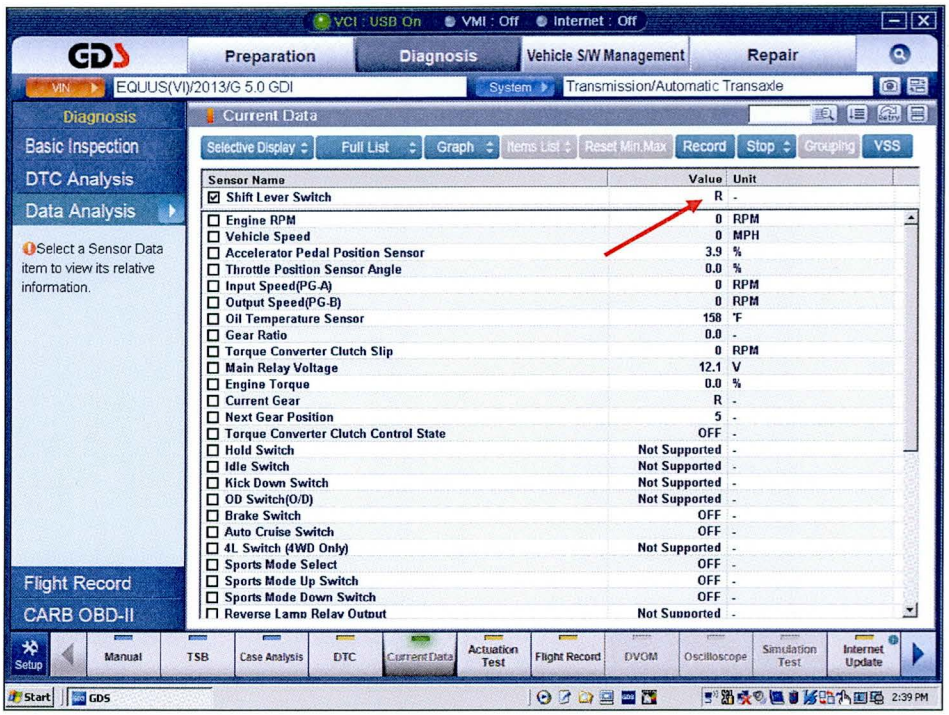
Circulate To: Service Manager, Warranty Manager, Service Advisors, Technicians, Fleet Repair

Service Procedure:

1. Push the Start/Stop Button two times without depressing the brake pedal.

2. Attach a GDS and check for DTC in the "Automatic Transaxle" menu. **Record the DTC and description.** Delete the DTC.

3. Select the following parameters. Move the shift lever through all gears and confirm the GDS shows P, R, N and D.
   - Vehicle and A/T menu.
   - "Current Data"
   - Shift Lever Switch.



4. If the Shift Lever Switch shows:
   - The correct shift lever position (P, R, N and D), the wiring **currently** has no open/short circuits. Go to Step 6.
   - Does not show the correct shift lever position, go to Step 5.

5. Visually check the wiring harness between the TCM and inhibitor switch for any damaged wires or open circuit/short circuit to ground. Check for any damaged pins or pins not fully inserted into the connector.
   - If damage exists, repair or replace the control wiring and drive the vehicle to confirm the repair.
   - If no damage or open/short circuit is found, go to Step 6.

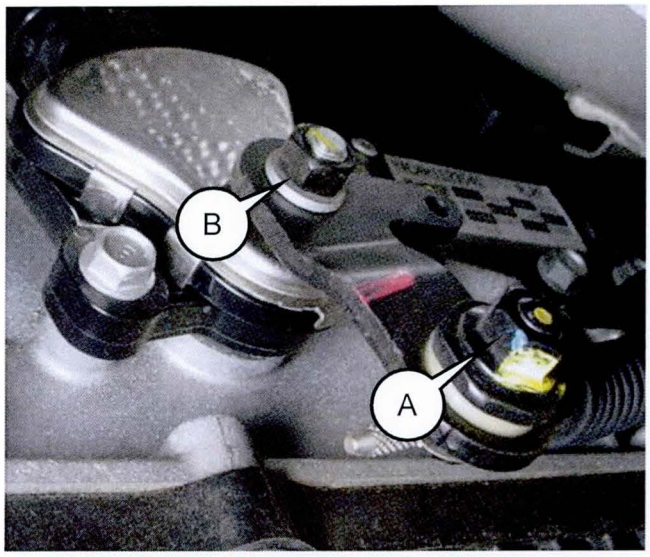
6. Move the shift lever to the "N" position.

   Turn the ignition switch to the OFF position.

7. Raise the vehicle on a hoist.
   Remove the transmission splash shield.

8. Disconnect the nut (A) that secures the shift cable.

   Disconnect the nut (B) that secures the manual control lever. Remove the lever.



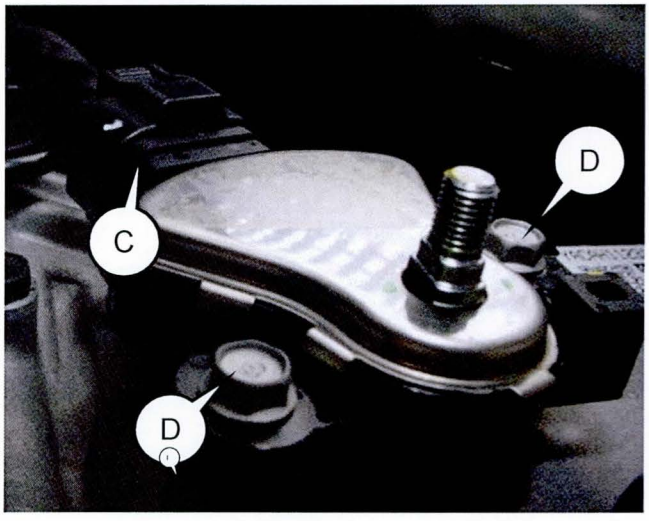
9. Disconnect the inhibitor switch connector (C).

   Remove 2 mounting bolts (D) that secure the inhibitor switch and remove the switch.

   Install a new inhibitor switch and reinstall the bolts (D).

   Torque: 7~9 lb-ft (1.0~1.2kgf.m)

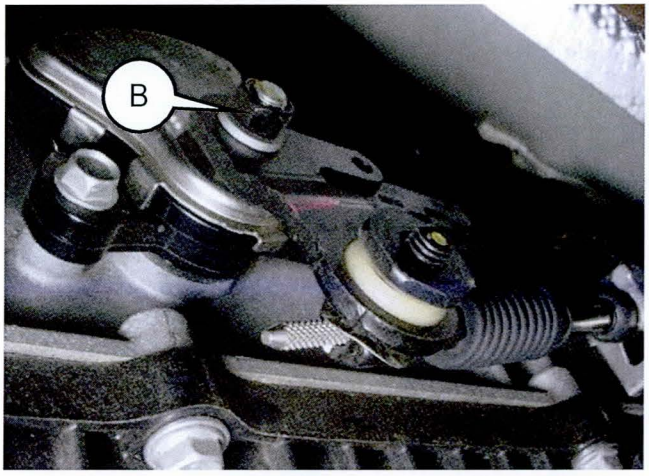
   Reconnect the connector (C).



10. Insert the shift cable into the manual control lever.

    Install the washer, manual control lever, lock washer and nut to the new inhibitor switch and tighten the nut (B).

    Torque: 13~19 lb-ft (1.7~2.6 kgf.m)



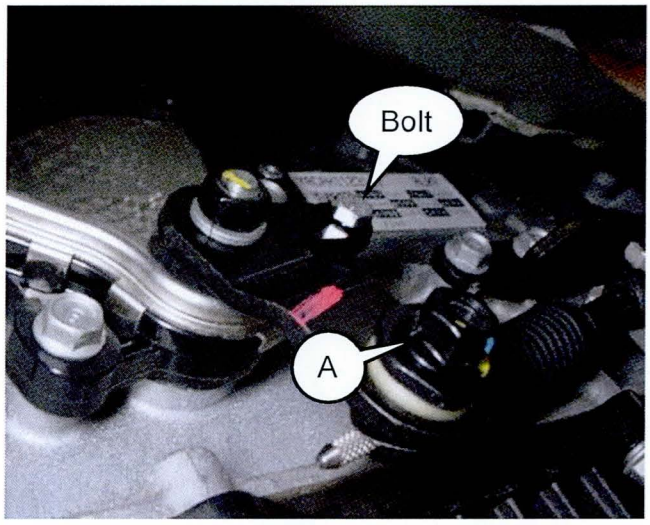
11. **NOTICE**

    Insert a 5mm bolt or 5mm screwdriver in the alignment hole before tightening the nut.

    Install the shift cable nut (A) and tighten the nut to specification.

    Torque: 13~19 lb-ft (1.7~2.6 kgf.m)

    Remove the bolt or screwdriver from the alignment hole.



12. Reinstall the transmission splash shield.

13. Clear any DTC and test drive the vehicle for two drive cycles (two key-on to key-off driving cycles). If the DTC:
    - Does not occur again, return the vehicle to the customer.
    - Occurs again, clean and tighten the ground bolts for the rear combination lights. If the bolts were not loose, go to the next step.
    - Repair or replace the control wiring between the TCM and inhibitor switch.
    - If the DTC occur again, replace the TCM.

14. Clear DTC in the BlueLink system per instructions of TSB 12-BE-005-2.