



# HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	09-01-028
Date	NOVEMBER, 2009
Model	GENESIS COUPE (BK)

Subject  
**MANUAL TRANSMISSION GEAR SHIFT LEVER AND OIL REPLACEMENT (CAMPAIGN T96)**

<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY MGR	<input type="checkbox"/> SALES MANAGER

**IMPORTANT: THIS CAMPAIGN APPLIES TO DEALER STOCK VEHICLES ONLY.**

**IMPORTANT: DEALERS MUST PERFORM THIS CAMPAIGN ON ALL AFFECTED VEHICLES PRIOR TO CUSTOMER RETAIL DELIVERY. ACCESS HYUNDAI MOTOR AMERICA'S "WARRANTY VEHICLE INFORMATION" SCREEN VIA WEBDCS TO IDENTIFY OPEN CAMPAIGNS.**

**DESCRIPTION:**

This bulletin provides the procedure for replacing the manual transmission gear shift lever assembly and transmission oil.

**VEHICLES AFFECTED - VERIFY THAT THE VEHICLE IS IDENTIFIED AS HAVING AN OPEN CAMPAIGN VIA WEBDCS:**


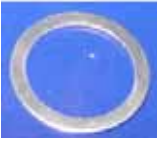

Model: Genesis Coupe (BK) with manual transmission.

Applicable vehicle production date range: Job #1 ~

Applicable vehicle VIN range:

- a. Use production range - Job #1 through August 28th, 2009 - Gear shift lever and oil replacement
- b. Use production range - August 29th, 2009 and forward: Oil replacement only

**PARTS REQUIRED:**

Part	Remarks
	<p>Change of pivot length: <b>From 48.6 to 44.6 mm</b></p>
<p>TGS Lever Assembly <b>P/N: 43725-2M101QQH</b></p>	
	<p>Replace after filling transmission the 2nd time (after the flush)</p>
<p>Crush washer - fill plug <b>P/N: QDS17-51116-000</b></p>	
	<p>Replace after draining transmission the 2nd time (after the flush)</p>
<p>Crush washer - drain plug <b>P/N: 21513-11000</b></p>	
<p>Manual transmission oil</p> <p>Original fluid: HD gear oil XLS (SAE 75W-85, LPI GL-4)</p> <p>Replacement fluid: MTF2-1L (Pentosin) BP CASTROL BOT 338, MTF-LT2 or equivalent (SAE 75W-80, LPI GL-4)</p> <p><b>P/N: 0023219041 (5 pack of 1 liter bottles)</b> <b>P/N: 0023219042 (4 pack of 1 liter bottles)</b></p>	<p><b>Fluid Requirements:</b></p> <p>Theta 2.0L M6VR1: 4.0 liters</p> <p>Lamba 3.8L M6VR2: 4.4 liters</p> <p>*The volume of fluid required is double the capacity to account for filling the transmission twice; once for the flush, once for the final filling.</p>



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## SERVICE PROCEDURE:

Vehicle production date: Job #1 through August 28, 2009.

**NOTE:** Before conducting the procedure, verify that the vehicle has an open campaign 09-01-028 identified on WEBDCS.

### • TGS REPLACEMENT

1. Place the vehicle so it may be raised on a hoist and release the parking brake.



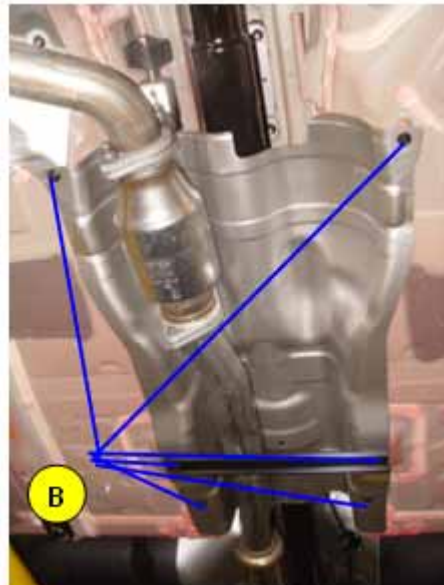
2. Unbutton the shift lever boot hook (A) and open the shift lever boot.



3. Remove the shift lever knob by turning it counterclockwise.



4. Raise the vehicle off the ground and remove the heat shield by unfastening 6 mounting bolts (B).





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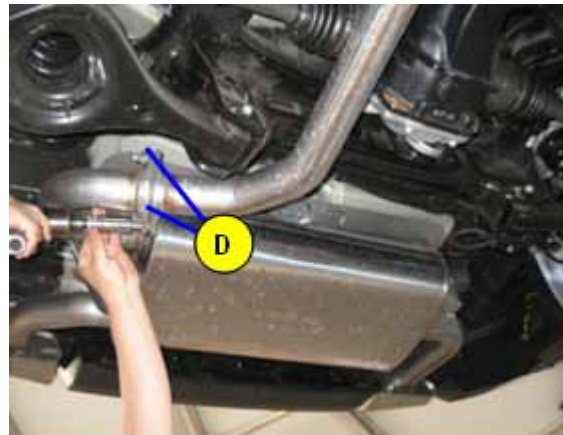
5. Unfasten the two nuts (C) at the flange in front of the catalytic converter.

**NOTE: Torque specification:  
28.9 ~ 43.4 lb-ft.**



6. Unfasten the two nuts (D) that connect the center pipe to the muffler assembly.

**NOTE: Torque specification:  
28.9 ~ 43.4 lb-ft.**



7. Disengage the rubber exhaust hanger on the center pipe and remove the center pipe together with the secondary catalytic converter.



8. Draw a straight line across the front propeller shaft rubber coupling (a) and the transmission companion flange(b). This will be used to align when reinstalling.

**CAUTION:** Use care not to exchange locations and directions of bolts and washers when reinstalling to prevent balance issues.





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9. Remove the 3 propeller shaft mounting nuts (E) holding the rubber coupler to the transmission output flange.

**NOTE: Tightening torque :  
90~110Nm (9.0~11.0  
kgf.m/65~79.5lb-ft)**



10. Lower propeller shaft to gain access to the shift lever.

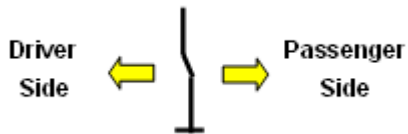


11. Remove the shift lever lower boot.



12. Unfasten the shift lever plate mounting bolts (G) and lower the shift lever.

**NOTE: Tightening torque :**  
0.4~0.6 kgf.m (3.9 ~ 5.8 N.m, 2.9 ~ 4.3 lbf.ft)

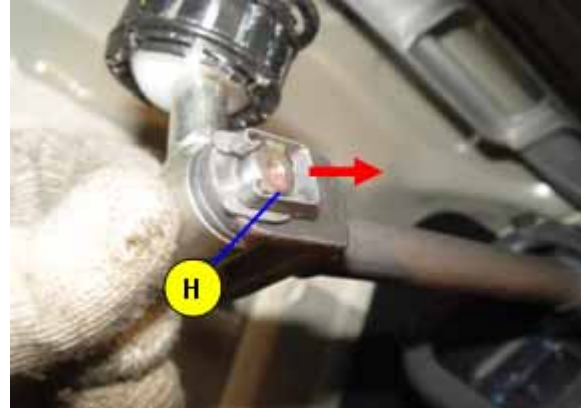


**CAUTION:** Make sure to install the shift lever in the direction as shown above.

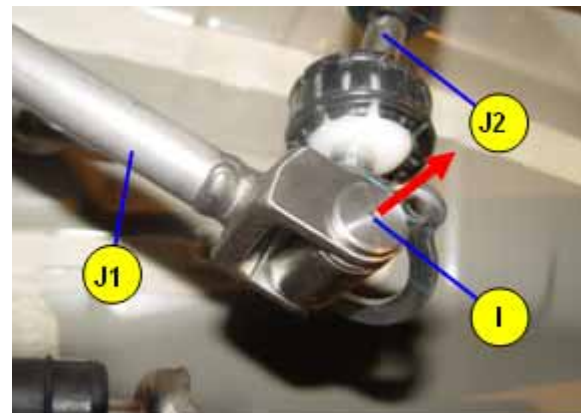




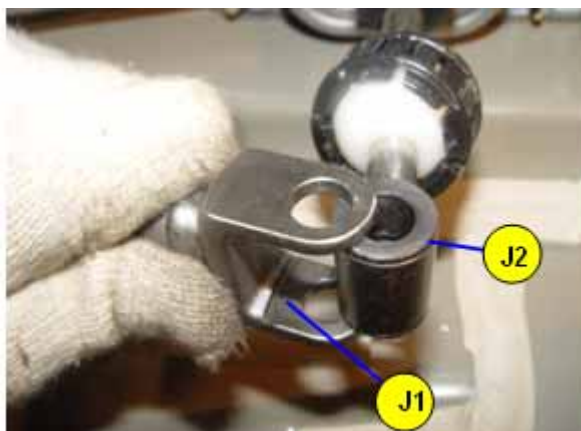
13. Remove the lock washer (H) by pushing it forward.



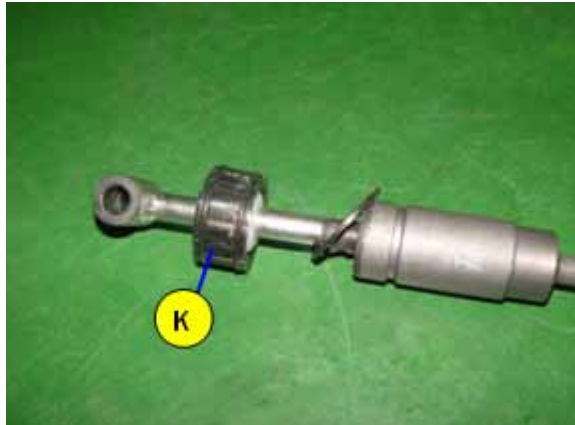
14. Remove the pin (I) holding the shift lever and yoke lever together.



15. Separate the shift lever (J2) from the yoke lever (J1) and remove the shift lever (J2).



16. Remove the bearing (K) from the removed shift lever. Please retain bearing for installation on the new shift lever.



17. Remove the shift lever O-ring (L) from the removed shift lever and install it with the new shift lever.

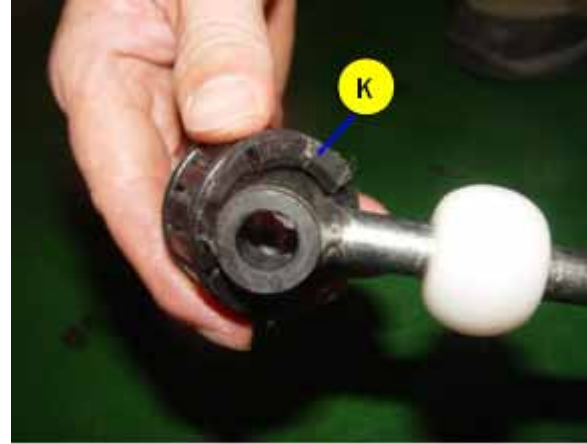




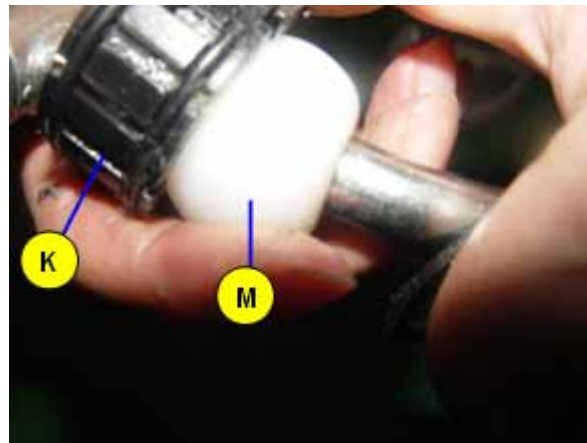
18. Apply grease to the new shift lever and insert the new shift lever into the original bearing (K).



**CAUTION:** Make sure that the base side of bearing with sharp protrusions faces downward.



19. Slide the bearing (K) over the shift lever ball (M).



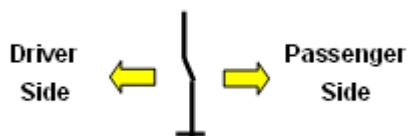
**CAUTION:** Ensure bearing O-ring does not slip off the bearing after the bearing is slid onto the shift lever.



20. Insert the new shift lever into the shifter hole. Do not push the shift lever through. Leave it loose while installing the other components.



- Verify the original installation direction of the shift lever.

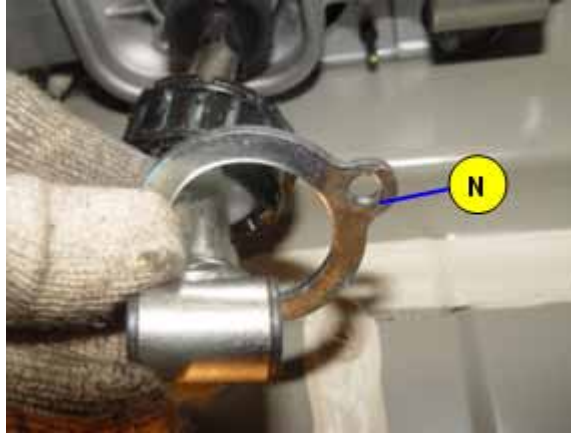


**CAUTION:** Make sure to install the shift lever in the direction as shown above.



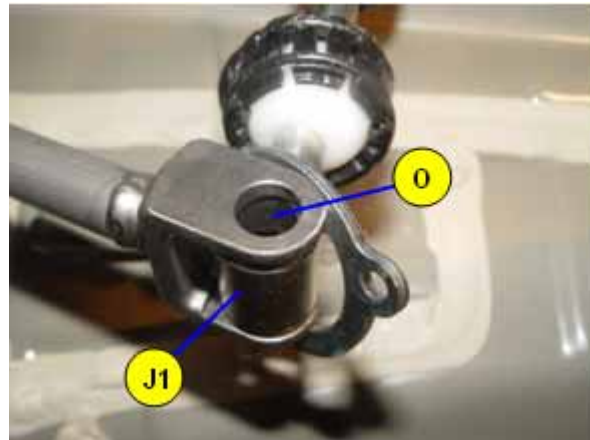


21. Hang the shift lever plate (N) on the shift lever.



22. Install the shift lever (J1) with the yoke lever.

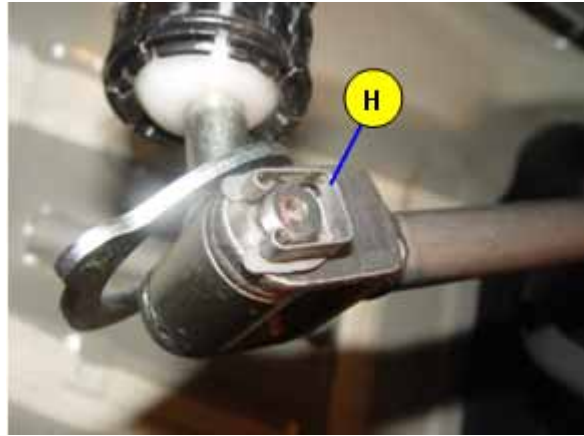
23. Apply grease(0.8~1.0g) around the extend shaft hole (O).



24. Insert the pin (I) into the hole (O) from the left to the right.



25. Install the lock washer (H) in the direction as shown on the photo.



26. Install the plate (N) by hand.



27. Securely fasten the plate mounting bolts (G).





28. Reinstall the lower boot (F) and install all the removed parts in reverse order of removal.



**Caution when reinstalling:**

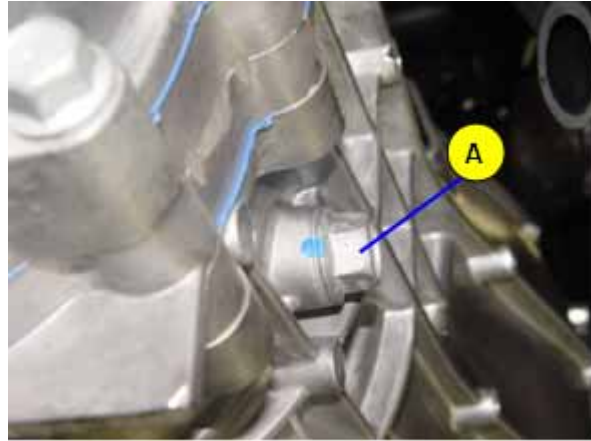
Before buttoning the shift boot, ensure that the rubber boot engages the new shifter properly. There is a groove in the shifter to accommodate the boot. Pull up on the boot until it is seated in the groove.



Vehicle production date: Job #1 and forwards. For all vehicles identified with an open Service Campaign 09-01-028.

- **MANUAL TRANSMISSION OIL REPLACEMENT**

1. Remove the oil filler plug (A).



2. Loosen the drain plug (B) and drain the transmission oil.





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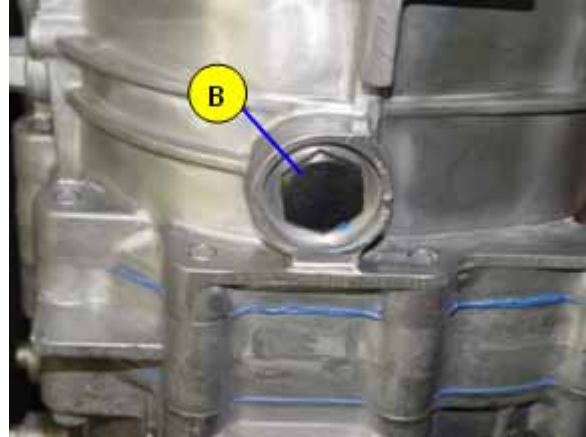
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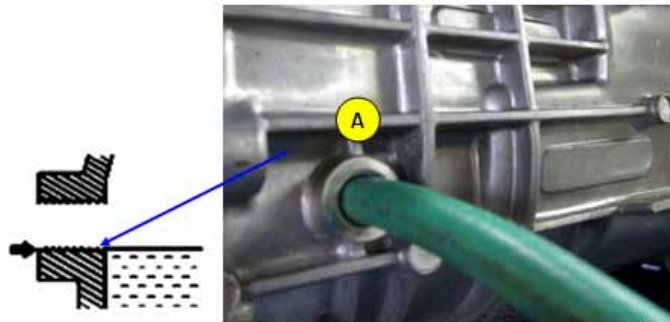
09-01-028

3. Install the drain plug (B). Reuse the original crush washer.

**NOTE: Tightening torque:  
60~80Nm(6.0~8.0kgf.m/  
43.4~57.8lb-ft)**



4. Add new oil through the fill plug hole (A), and fill it just below the plug opening.



5. Install the filler plug. Reuse the original crush washer.

**NOTE: Tightening torque: 60~80  
Nm (6.0~8.0 kgf.m/  
43.4~57.8 lb ft.)**



6. Flush transmission oil according to the below procedures:

a) If the shop is equipped with a two post or double-scissor hoist (which supports the body not tires):

- With the shifter in neutral, start the engine and idle for about 30 seconds.

- Press the ESC button on the dash to disable ESC.

- Shift the transmission into the 5th gear.

- Apply the accelerator pedal to raise RPM up to 2500 rpm and sustain for more than 30 seconds.

b) If the shop is equipped with a four post hoist (which supports by the wheels/tires):

- Drive the vehicle 0.5 miles or more.



7. Drain and refill the oil, using the new crush washers (C) on the drain and fill plugs.

8. Confirm proper operation of the shift lever and transmission, and that there are no fluid leaks.



# C: Plug gasket



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## WARRANTY CLAIM INFORMATION:

Op Code	Engine	Description	Op Time	Applicable Production Range
90B050R4	2.0	TGS Lever Assembly and Manual Transmission Oil Replacement	1.0 M/H	Production date range: Job#1 through August 28, 2009.
90B050R5		Manual Transmission Oil Replacement	0.4 M/H	Production date range: August 29, 2009 and forward.
90B050R6	3.8	TGS Lever Assembly and Manual Transmission Oil Replacement	1.0 M/H	Production date range: Job#1 through August 28, 2009.
90B050R7		Manual Transmission Oil Replacement	0.4 M/H	Production date range: August 29, 2009 and forward.

**NOTE 1: Submit claim on Campaign Entry Screen.**

**NOTE 2: Reimbursement of transmission oil will be shown in the claim's sublet field.**

**NOTE 3: Sublet amount for 2.0L will cover 4 liters.**

**NOTE 4: Sublet amount for 3.8L will cover 5 liters.**