 HYUNDAI NEW THINKING. NEW POSSIBILITIES.	GROUP BRAKES	NUMBER 14-BR-002
	DATE DECEMBER 2014	MODEL(S) YF SONATA HEV
Technical Service Bulletin		
SUBJECT: YF SONATA HYBRID (HEV) BRAKE PEDAL NOISE		

Description: This bulletin describes the procedure to install brake lines and a fluid damper to address a squeaking or “honking” type sound that can intermittently occur when applying the brake pedal.



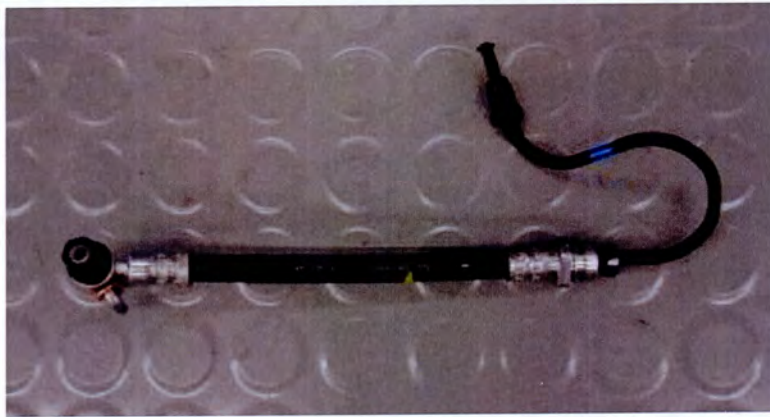
Applicable Vehicles: All YF HEV

Parts Information:

Part Name/Number	Image / Description	
HPU NOISE FIX KIT 58670-4R005-FFF Each part number includes: 1) Secondary tube assembly (master cylinder to ESC module)		Secondary tube assembly, master cylinder to ESC module. This tube connects at the master cylinder port labeled “S”, and at the ESC module port labeled “MC2.”

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2) Primary boosting chamber tube assembly



Primary boosting chamber tube assembly.

This tube connects at the master cylinder point labeled "B/C," and at the damping chamber at the HPU.

3) Damping chamber



Damping chamber.

This damping chamber is installed at the HPU point labeled "B/C."

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part #	Nature Code	Cause Code
YF HEV	58670F00	YFE HPU BRAKE NOISE REPAIR	1.1 M/H	58620-4R300	Q41	ZZ5

Service Procedure:

1. Open the battery cover located in the trunk and then remove the battery negative (-) terminal.

NOTICE

If procedure is performed on a customer's vehicle, record the AM/FM/XM preset stations.



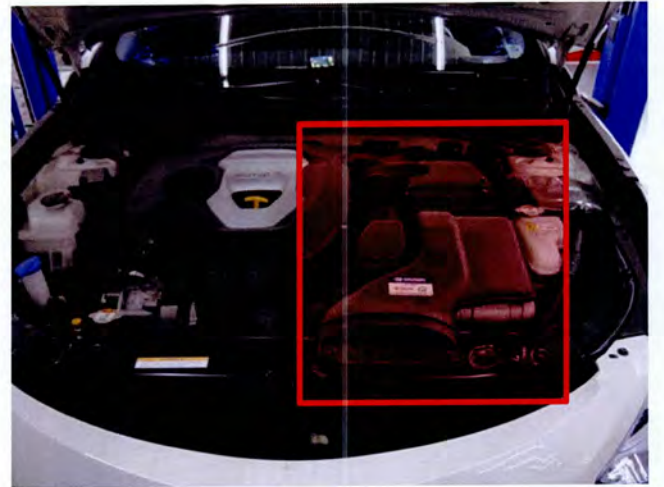
2. Depress the brake pedal fully using a tool.

NOTICE

Holding the brake pedal depressed during this procedure reduces the amount of fluid lost.



3. Remove the air duct and air filter box assemblies to gain access to the brake components according to the applicable shop manual procedures.



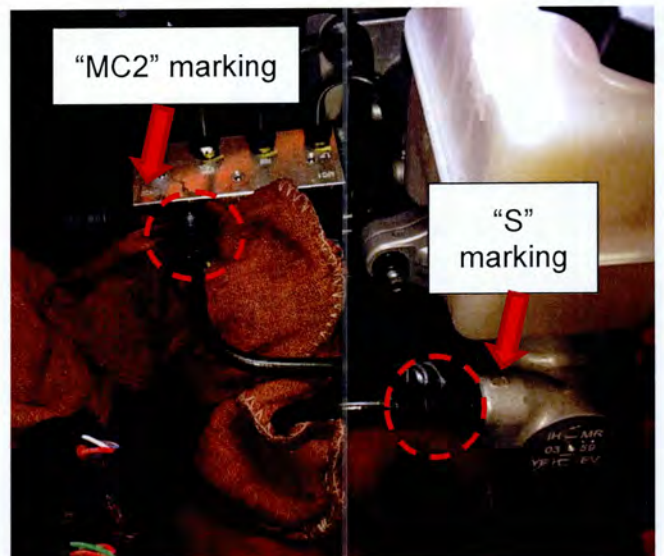
4. Place a shop rag under the secondary brake tube assembly fittings to catch as much brake fluid as possible. Remove the brake tube assembly.

NOTICE

The secondary brake tube connects to the master cylinder at the port labeled "S," and at the ESC module at the port labeled "MC2."

NOTICE

If any brake fluid is spilled, immediately clean the spill by generously flushing water over the area.



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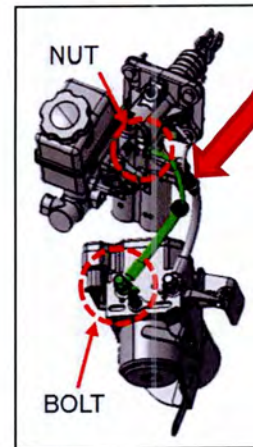
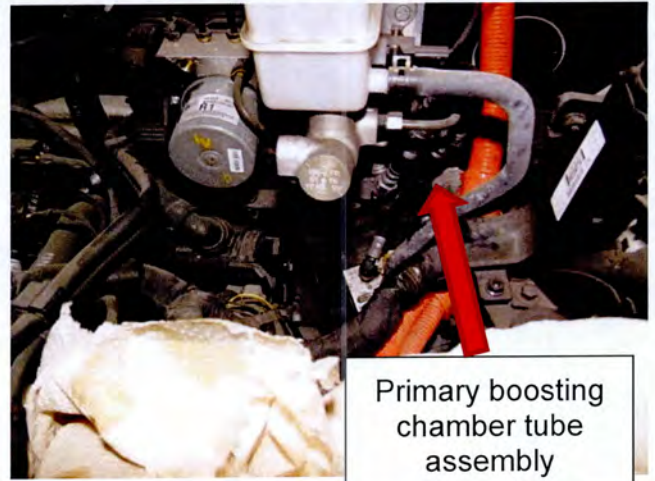
5. Place a shop rag under the primary boosting chamber brake tube assembly fittings to catch as much brake fluid as possible. Remove the brake tube assembly.

NOTICE

The primary boosting chamber brake tube connects to the master cylinder at the port labeled "B/C," and at the HPU module at the port labeled "B/C."

NOTICE

If any brake fluid is spilled, immediately clean the spill by generously flushing water over the area.



- 6. Install the fluid damper at the B/C port on the HPU using a socket on the upper portion of the damper.

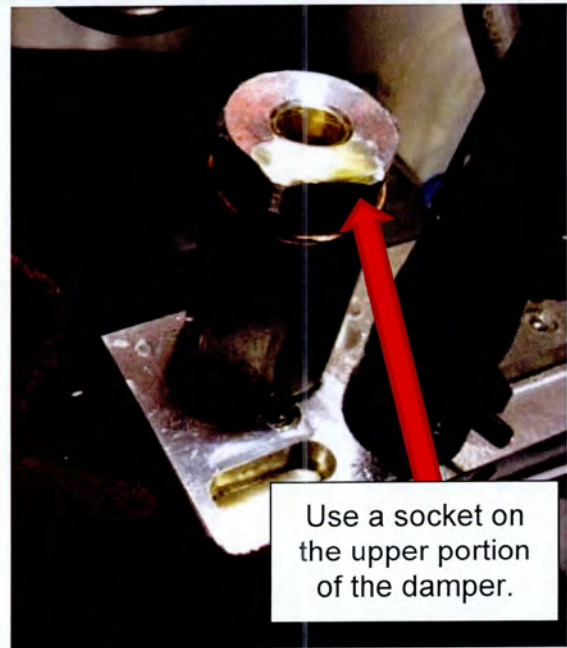
CAUTION

Take care to not lose the copper washer provided with the kit.

If the washer is lost, it can be replaced using part number: 17512-10000.

NOTICE

Tightening torque:
25.3~28.9 lb-ft (34.3~39.2 Nm,
3.5~4.0 kgf.m)



7. Install the new brake tube assemblies.

NOTICE

Tightening torque #1: Secondary tube assembly (master cylinder to ESC module):

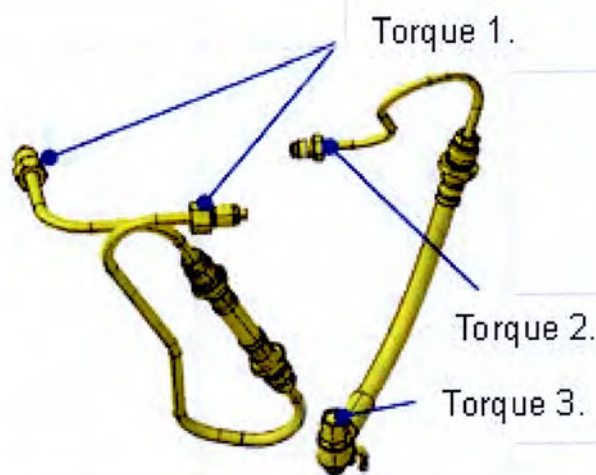
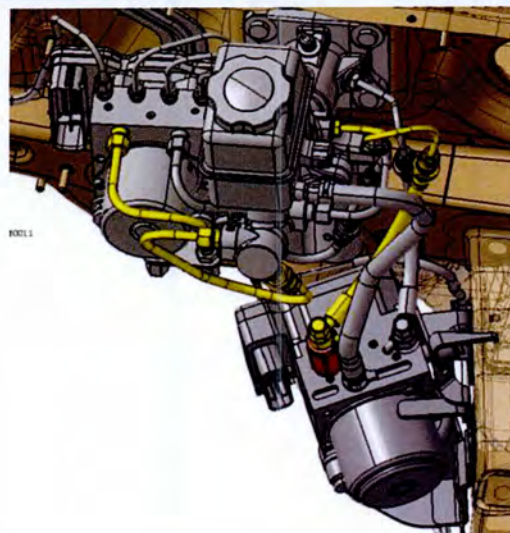
13.7~16.6 lb-ft (18.6~22.6 Nm,
1.9~2.3 kgf.m)

Tightening torque #2: Primary boosting chamber tube assembly at master cylinder:

10.1~12.3 lb-ft (13.7~16.7 Nm,
1.4~1.7 kgf.m)

Tightening torque #3: Primary boosting chamber tube assembly at damping chamber:

21.7~25.3 lb-ft (29.4~34.3 Nm,
3.0~3.5 kgf.m)



- 7b.

CAUTION

When tightening down the bolt at the damping chamber, ensure proper clearance between the dowel pin and any other parts.



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8. Remove the tool holding the brake pedal depressed, and then perform the brake bleeding procedure following TSB 11-BR-002.

9. Reinstall the rest of the removed parts in reverse order of removal.

10. Perform the Pedal Travel Sensor (PTS) calibration using the GDS.

11. Verify proper brake operation.

12. Reprogram the AM/FM/XM radio presets, if necessary.