


SB-10058136-4434

 HYUNDAI NEW THINKING. NEW POSSIBILITIES. Technical Service Bulletin	GROUP CAMPAIGN	NUMBER 15-01-022-1
	DATE APRIL 2015	MODEL(S) SONATA (LF) 2.0T/2.4L

SUBJECT: E-CVVT SEAL SEATING (SERVICE CAMPAIGN TX3)

This TSB supersedes TSB# 15-01-022 to revise the service procedure to clarify the steps to access the E-CVVT area.

★ IMPORTANT

*** DEALER STOCK ONLY ***

Dealers must perform this Service Campaign on all affected vehicles prior to customer retail delivery.

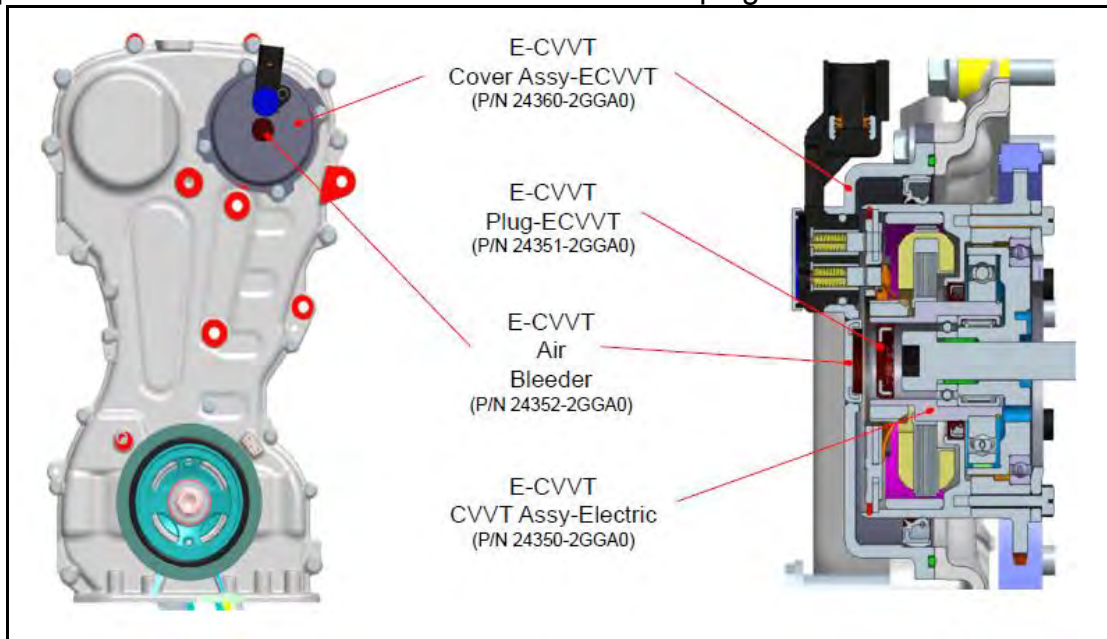
When a vehicle arrives at the Service Department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: On certain 2015 SONATA (LF) vehicles equipped with 2.0T and 2.4L GDI engines, the "Check Engine Light" may illuminate with DTC P0010 (Intake Camshaft Position Actuator Circuit) stored in the ECM. This condition may be due to incomplete seating of the internal oil seal plug at the intake camshaft E-CVVT (Electronic-Continuously Variable Valve Timing) actuator.

The vehicle may also exhibit one or more of the following conditions:

- Target engine idle speed is elevated to 1,200-1,400 RPM
- Hesitation and/or slight reduction in power during acceleration

Follow the procedure outlined in this bulletin to seat the seal plug of the intake camshaft E-CVVT.



Applicable Vehicles:

- Certain 2015MY Sonata (LF) equipped with 2.0T or 2.4L engines

Parts Information: No new parts required for this service procedure.

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

SUBJECT: E-CVVT SEAL SEATING (SERVICE CAMPAIGN TX3)

SST Information:

Description	Tool Part #
E-CVVT Seal Installation Tool	09243-C1000

NOTE: Special Tool SST 09243-C1000 has been previously shipped to all Dealers as a Required Special Tool. Dealers who wish to order additional or replacement tools may do so through the Hyundai Dealer Tool Program. (1-866-539-4248).

Warranty Information:

Op. Code	Operation	Op. Time
50CA04R0	E-CVVT Seal Seating	0.3 M/H

NOTE: Submit Claim on Campaign Claim Entry Screen

Service Procedure:

1. Remove the engine cover and support the weight of the engine at the lifting bracket eyelet (A).

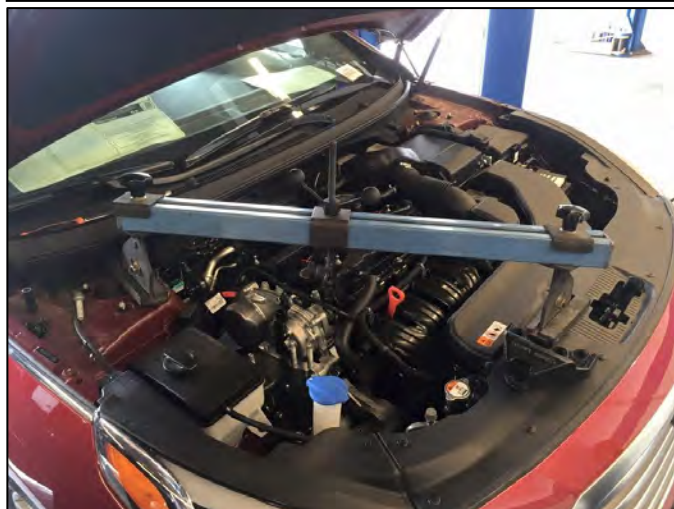


NOTICE

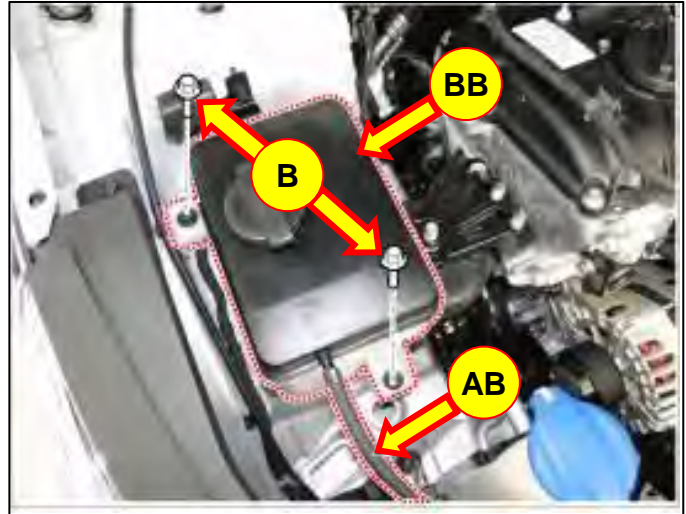
Attach the engine support fixture SST (or equivalent) as shown in the picture on the right.

Alternatively, the engine can be supported from underneath with a floor jack.

- *Remove the Engine Room Under Cover*
- *Place a wide rubber block (or equivalent) between the floor jack and the oil pan*
- *Lift only enough to support the engine*



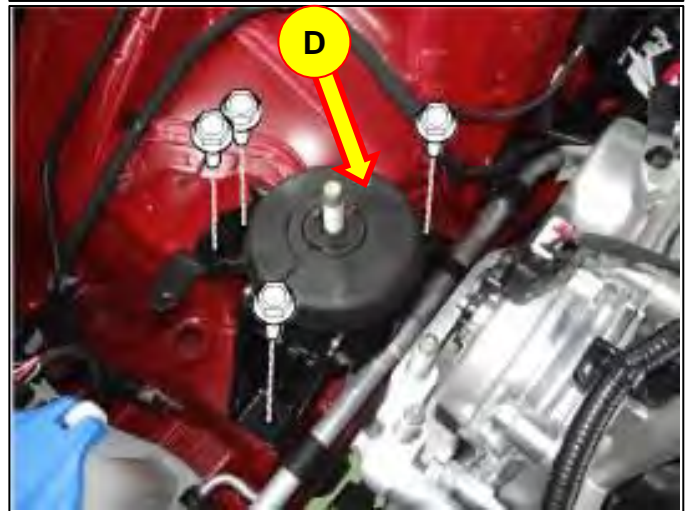
2. Disconnect the overflow hose (AB) and remove the mounting bolts (B) to dismount the engine coolant reservoir (BB).



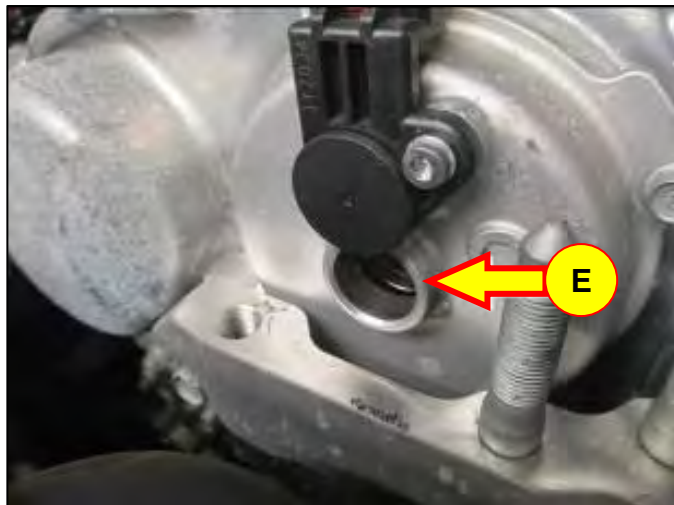
3. Once the engine is securely supported, remove the engine mounting support bracket (C).



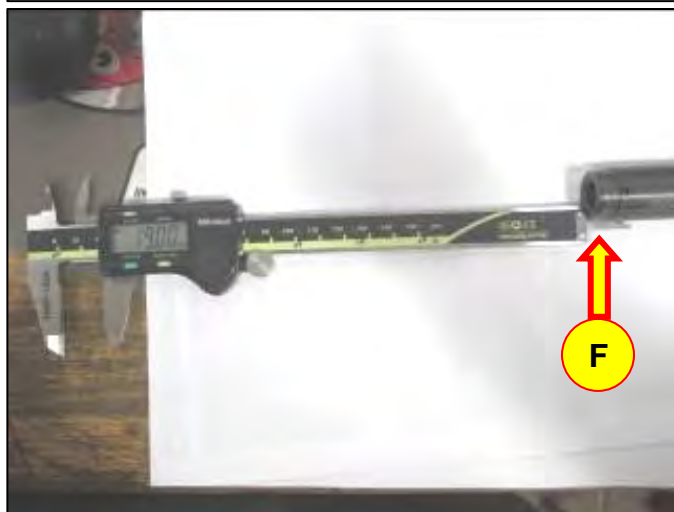
4. Remove the engine mount (D).



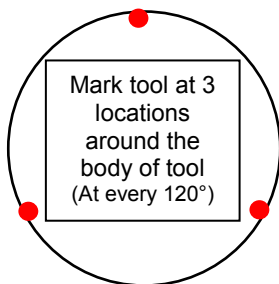
5. Remove the E-CVVT cover plug (E).



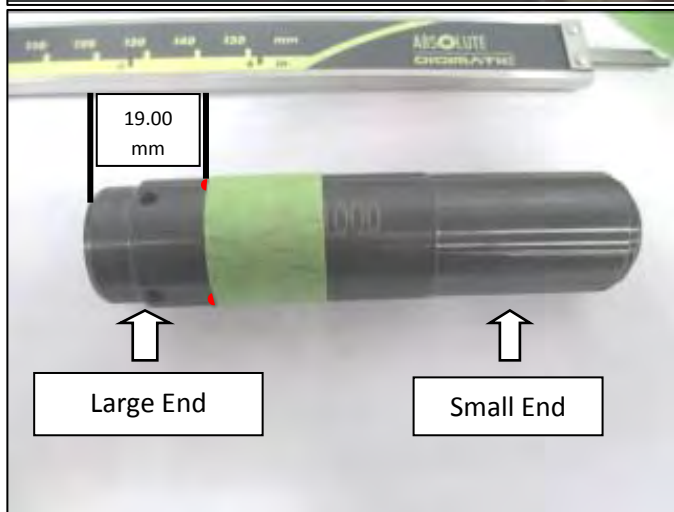
6. Using a set of Vernier calipers (or equivalent ruler), measure exactly 19mm from the end of the large end of tool 09243-C1000 (refer to the picture in Step 7).



Using a suitable fine tip marker, mark at least 3 spots around the tool at a point 19mm from the end of the large end of tool (F).



7. Once the tool 09243-C1000 has been measured and marked, use a suitable masking tape and apply the tape around the entire circumference being sure to follow the 19mm measured marks that were previously made in Step 6.



NOTICE

Confirm that the distance from the end of the applied tape to the large end of the tool is exactly 19mm.

8. Use the larger end of the Special Service Tool 09243-C1000 and insert the tool (G) until the edge of the tape lines up with the outer edge of the E-CVVT cover seal hole.

NOTICE

Do not install the tool further than the leading edge of the tape.

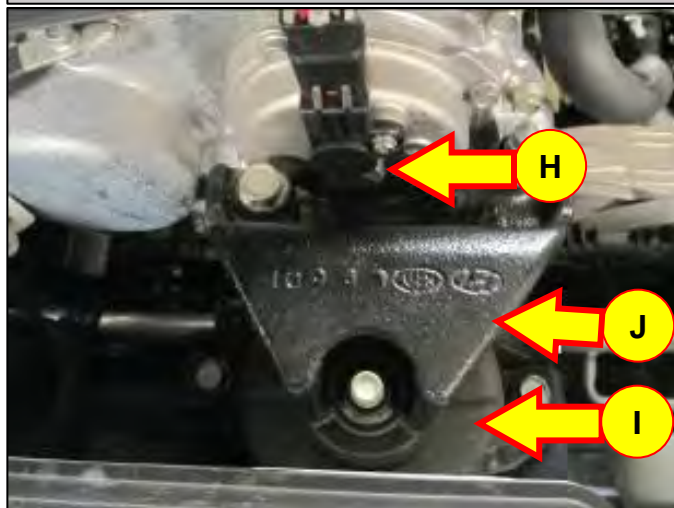
NOTICE

Placing a stubby screwdriver at the small end of the tool will aid in the positioning of the tool to seat the seal into the E-CVVT center cavity.



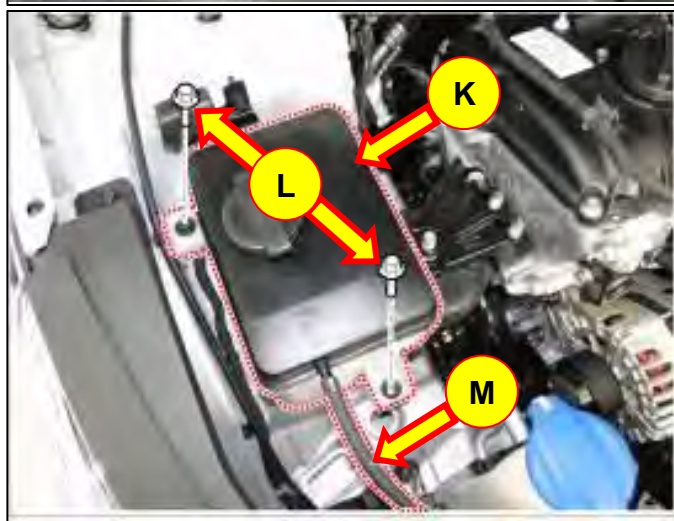
9. Once complete, reinstall the E-CVVT cover plug (H), engine mount (I), engine mounting support bracket (J).

(Engine Mount and Support Bracket Fasteners)
Tightening torque: 88Nm (65lb-ft)



10. Reinstall the engine coolant reservoir (K), reinstall the mounting bolts (L) and reconnect the overflow hose (M).

(Engine Coolant Reservoir Mounting Bolts)
Tightening torque: 9Nm (80lb-in)



11. If present, clear any stored related DTCs in the ECM using the GDS.
12. If present, clear any DTCs in the BlueLink system per instructions of TSB 12-BE-005-2.
13. Verify repair by checking the following items:
 - Proper installation of the engine mount and support bracket
 - Proper installation of the coolant overflow hose and reservoir at the normal full level
 - Normal starting and operation of the engine
 - Check Engine Light not illuminating
 - No external oil leaks