February 18, 2022 Version 1

Warranty Extension: MIL Comes On With DTC P0300, P0301, P0302, P0303, P0304, P0171, P0172, P219A, P0420, or P0420 With Any of the Other Listed Codes

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2015–16	Fit	ALL	Check the iN VIN status for eligibility.

BACKGROUND

Certain fuel injectors may not have been installed to proper specifications. An incorrectly installed fuel injector may lead to increased wear inside the injectors. This could result in reduced flow in the injectors and cause a misfire, air/fuel ratio imbalance, catalyst deterioration misdetection and/or fuel metering, resulting in MIL On.

American Honda is extending the warranty on failed fuel injectors as determined by the procedures in this bulletin to 10 years from the original date of purchase or 150,000 miles, whichever comes first.

CUSTOMER NOTIFICATION

Owners of affected vehicles will be sent a notification of this warranty extension.

Do an iN VIN status inquiry to make sure the vehicle is shown as eligible.

CORRECTIVE ACTION

Replace the applicable part(s) based on the diagnosis.

PARTS INFORMATION

Part Name	Part Number	Quantity
Fuel Injector Kit (includes new fuel injectors and all must-replace parts).	06160-5R1-000	1

WARRANTY CLAIM INFORMATION

NOTE:

- If you are replacing ignition coil(s) and the vehicle is eligible for SB 15-060, *Safety Recall: Ignition Coils*, submit warranty claims using the warranty claim information from that bulletin.
- DTCs are required with claim submission.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
1105D5	Misfire diagnosis (includes DTC clear)	0.3 hr	6E500	XC600	A22002A	30520-5R0-013
1211NC	Replace the injectors (no test drive)	1.8 hr	6E500	XC600	A22002A	30520-5R0-013
1105D5	Misfire diagnosis (includes DTC clear)	0.3 hr	6E500	XC600	A22002B	30520-5R0-013
1211NT	Replace the injectors (with test drive)	2.1 hr	6E500	XC600	A22002B	30520-5R0-013
1105D6	DTC clear (P0171/ P0172	0.2 hr	6E500	XC600	A22002C	30520-5R0-013
1211NC	Replace the injectors (no test drive)	1.8 hr	6E500	XC600	A22002C	30520-5R0-013
1105D4	DTC clear and cylinder A/F test (P219A)	0.2 hr	6E500	XC600	A22002D	30520-5R0-013
1211NC	Replace the injectors (no test drive)	1.8 hr	6E500	XC600	A22002D	30520-5R0-013

INSPECTION PROCEDURE

Do the following repairs depending on the stored DTC:

- P0300 - P0304 - Follow Inspection Procedure A only.
- P219A or P0420 (only) - Follow Inspection Procedure B only.
- P0171 or P0172 - Go to REPAIR PROCEDURE.
- P0420 with any other DTC stored - Do the inspection for other DTCs.

INSPECTION PROCEDURE A

1. Allow the vehicle to cool and record the misfiring cylinder.
2. Swap the ignition coil and spark plug to non-misfiring cylinders (for example: if the misfire is on cylinder 1, swap ignition coil 1 and 2, then swap Spark Plug 1 and 3).
3. Allow the vehicle to idle.
    - If the misfire moved with the ignition coil and the vehicle is eligible for a recall, this bulletin does not apply, do service bulletin 15-060: *Safety Recall: Ignition Coils*. Repair is complete.
    - If the misfire moved with the ignition coil and the vehicle is not eligible for recall, this bulletin does not apply, replace the ignition coil under the applicable warranty terms. Repair is complete.

- If the misfire moved with the spark plug and the vehicle is eligible for recall, this bulletin does not apply, do service bulletin 15-060: *Safety Recall: Ignition Coils*, and replace the spark plug under the applicable warranty terms. Repair is complete.
- If the misfire moved with the spark plug and the vehicle is not eligible for recall, this bulletin does not apply, replace the spark plug under applicable warranty terms. Repair is complete.
- If the misfire did not move and the fuel injectors have not been previously replaced, go to REPAIR PROCEDURE in this bulletin.
- If the misfire did not move and the fuel injectors have been previously replaced, this bulletin does not apply. Do service bulletin 21-007: *Carbon Buildup with Misfire DTCs* to repair vehicle.
- If the misfire did not return, proceed to Step 4.

4. Drive the vehicle at low speed with low acceleration input on a slight uphill incline.
   - If the misfire returns, use the logic above to determine the appropriate repair.
   - If the misfire does not return and vehicle is eligible for recall, do service bulletin 15-060 *Safety Recall: Ignition Coils*. Repair is complete.
   - If the misfire does not return and the vehicle is not eligible for recall, this bulletin does not apply. Follow normal misfire troubleshooting.

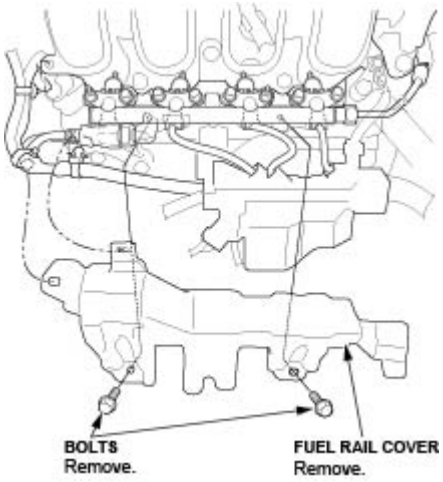
INSPECTION PROCEDURE B

1. Do the Cylinder A/F Imbalance test with the i-HDS.
   - If one or more cylinders fail, go to REPAIR PROCEDURE.
   - If none of the cylinders fail, this bulletin does not apply. Proceed with normal troubleshooting.

REPAIR PROCEDURE

Injector Removal

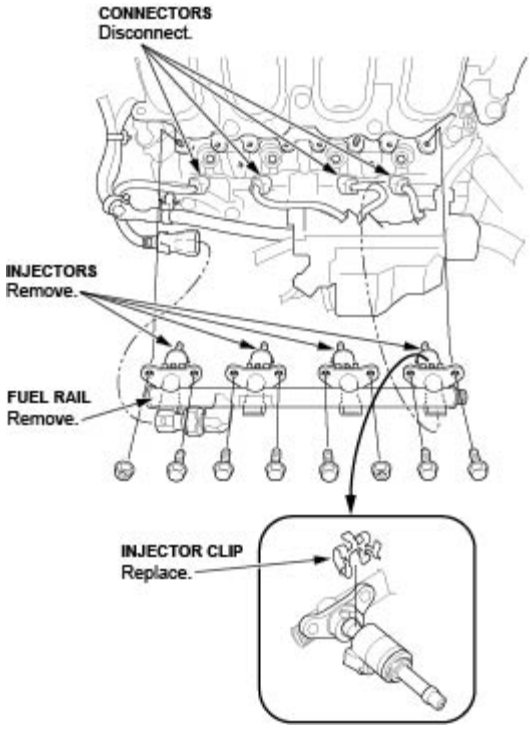
1. Relieve the fuel pressure.
2. Remove the throttle body.
3. Remove the high pressure fuel pump cover.
4. Remove the fuel rail cover.



5. Remove the fuel joint pipe.

6. Disconnect the connectors. Carefully remove the fuel rail with the injectors straight up and away from the cylinder head.

   NOTE: If the injector remains on the cylinder head, carefully remove the injector straight from the cylinder head.

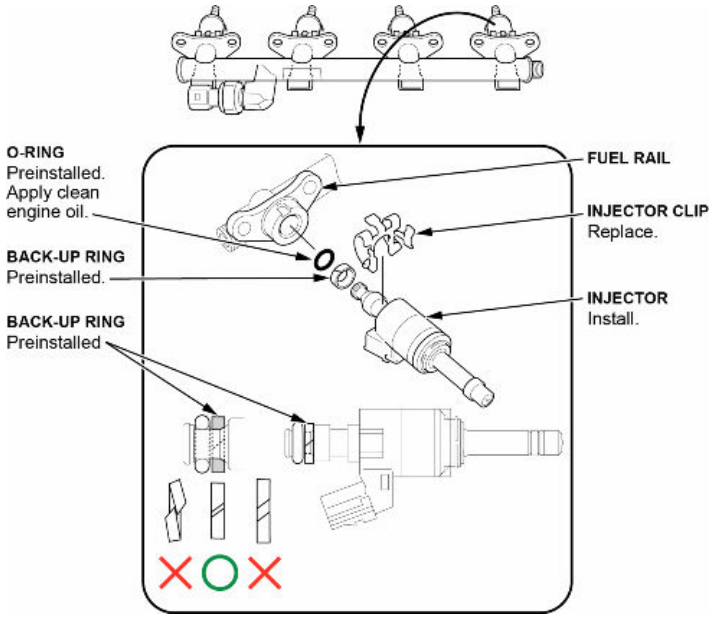


7. Remove the injectors from the fuel rail.

Injector Installation

1. Coat the O-ring with clean engine oil, then install the injector onto the fuel rail with a new clip.

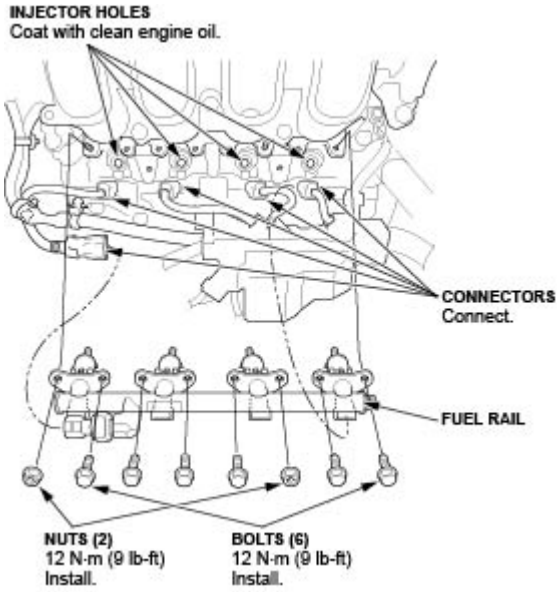
   NOTE: When installing the injector, be sure to protect the injector from dust and/or debris.



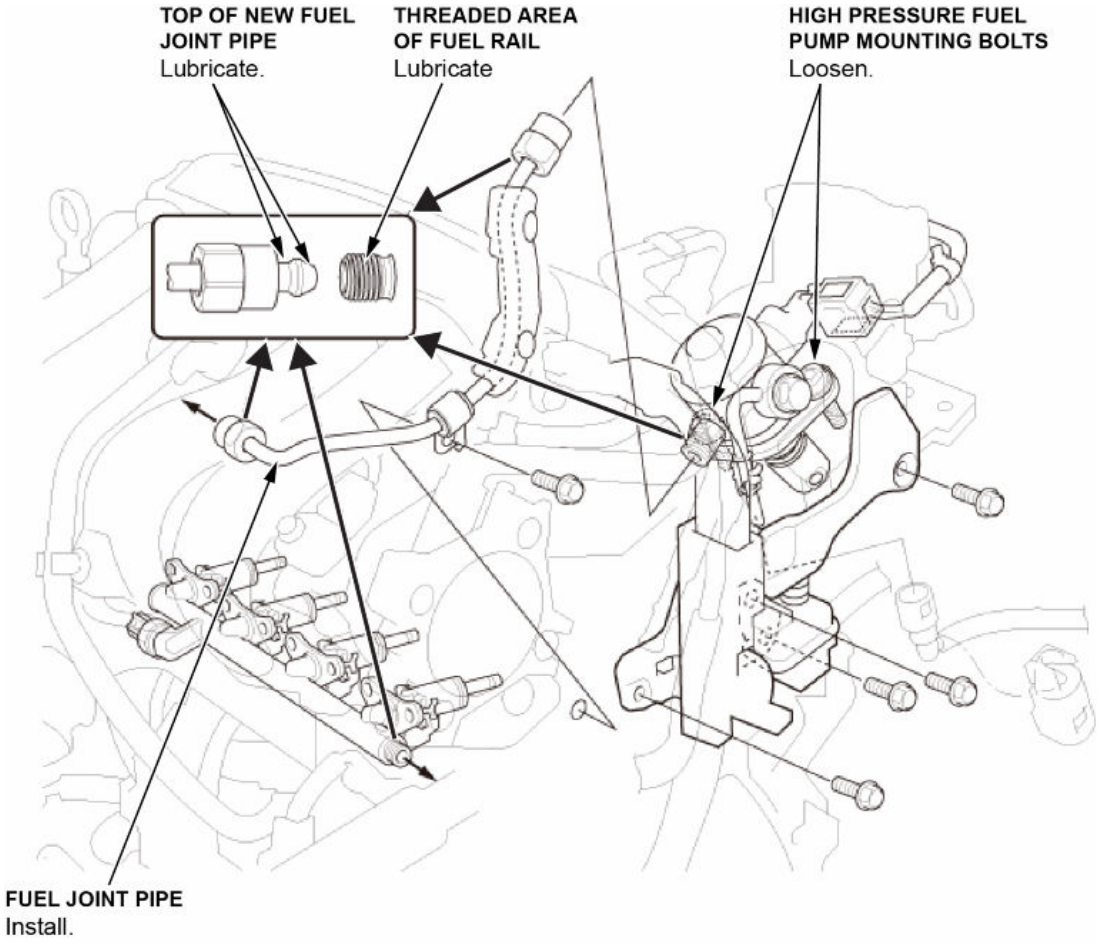
2. Coat the injector holes on the cylinder head with clean engine oil.
3. Carefully install the fuel rail with the injectors into the cylinder head straight and equal.

   NOTE: When installing the injector, protect the tips of the injector from dust or debris.

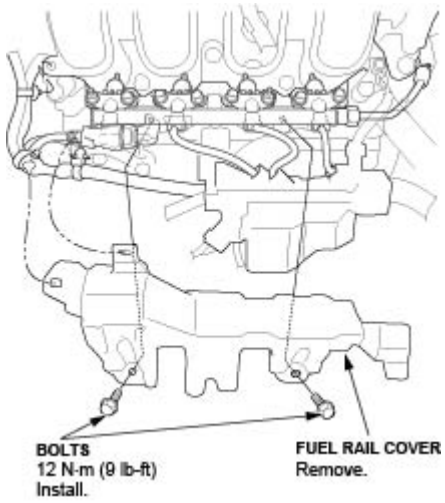
4. Install the nuts, and tighten them slowly in an alternate pattern until the fuel rail seats on the cylinder head.
5. Tighten the nuts and the bolts to **12 N.m (9 lb-ft)**.
6. Connect the connectors.



7. Install the fuel joint pipe: Lubricate the top of the new fuel joint pipe and the threaded area of the fuel rail and the high pressure fuel pump with polyethylene glycol in a new fuel joint pipe kit. Loosen the high pressure fuel pump mounting bolts.



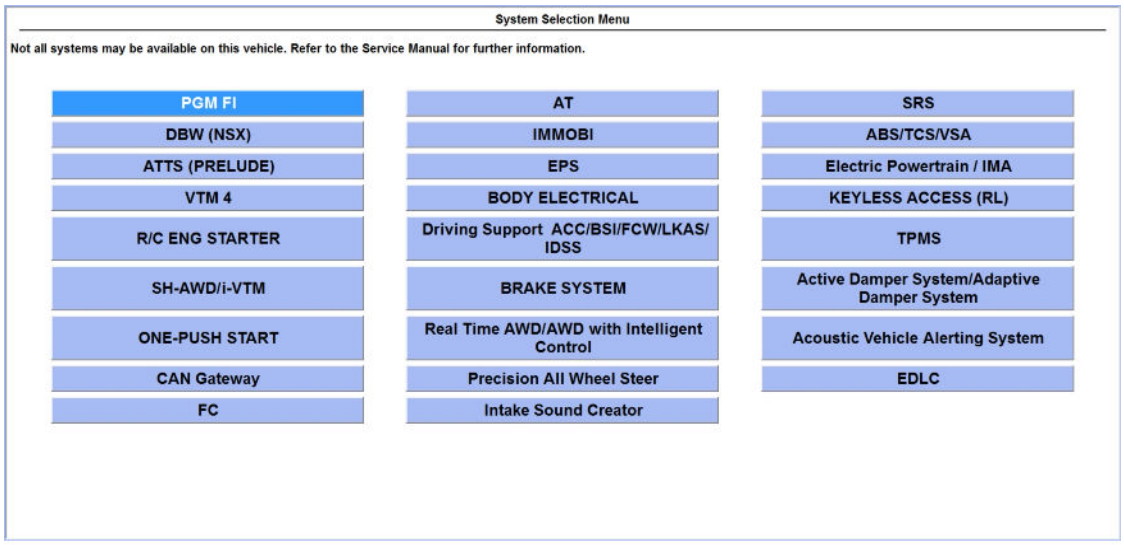
8. Tighten the fuel joint pipe nut by hand until the end of it is seated on the fuel rail.
9. Tighten the fuel joint pipe nut by hand until the end of it is seated on the high pressure fuel pump.
10. Set the fuel joint pipe bracket to the cylinder head, and loosely install the bolt.
11. Tighten the high pressure fuel pump mounting bolts in an alternate pattern to **25 N.m (18 lb-ft)**.
12. Tighten the fuel joint pipe bracket mounting bolt to **12 N.m (9 lb-ft)**.
13. Tighten the high pressure fuel pump side of the fuel joint pipe nut first, then the fuel rail side of the fuel joint pipe nut to **36 N.m (27 lb-ft)**.
14. Turn the vehicle to the ON mode, but do not start the engine. After the fuel pump runs for about **2 seconds**, the fuel line will be pressurized. Repeat this two or three times, then check for fuel leakage.
15. Check for fuel leaks at the high pressure side.
16. Install the fuel rail cover.



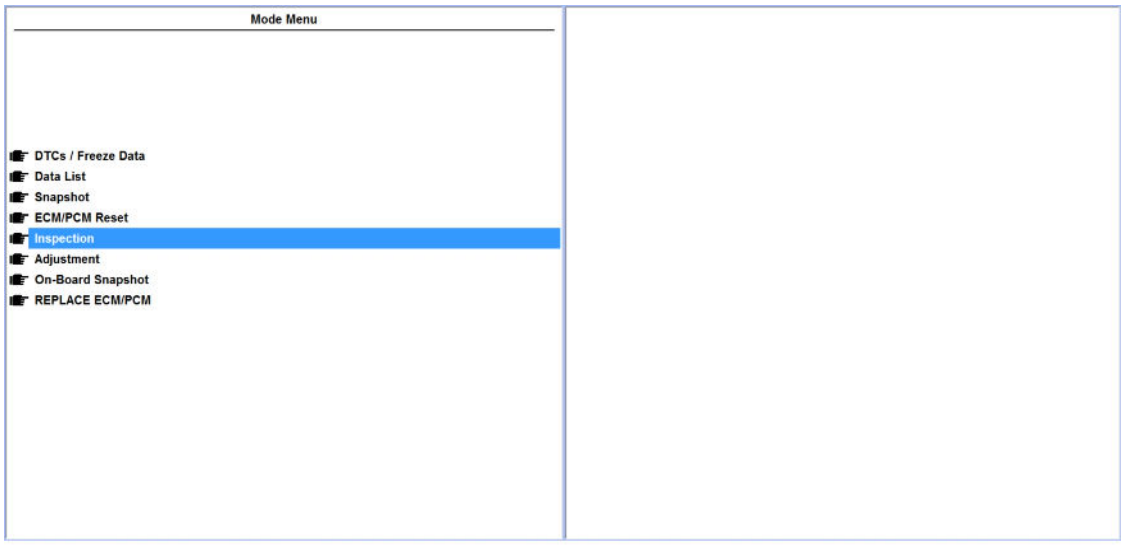
17. Install the high pressure fuel pump cover.
18. Install the throttle body.
19. Clear the DTCs.

Cylinder AF Test

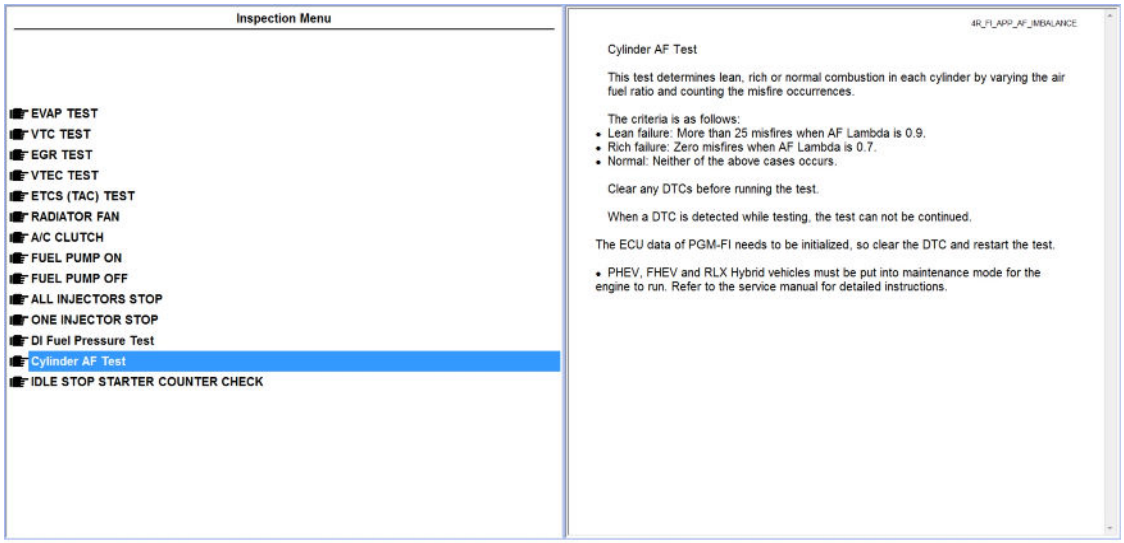
1. Using the I-HDS, do the Cylinder AF Test to make sure the false DTC P0420 Catalyst System Efficiency Below Threshold is caused by faulty fuel injectors. Connect the i-HDS to the vehicle and select **PGM-FI** from the **System Selection Menu**.



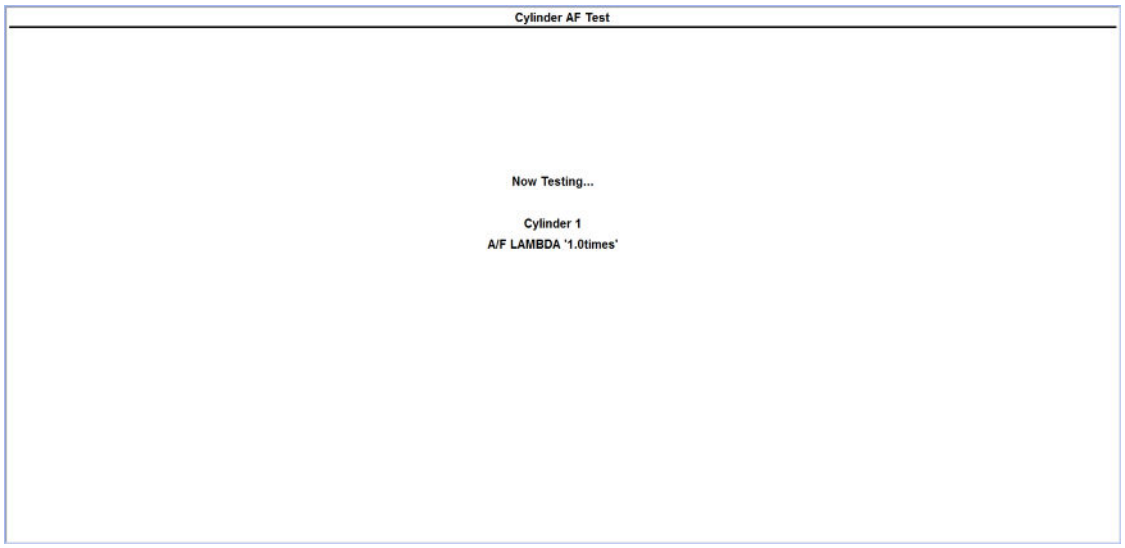
2. Select **Inspection** from the **Mode Menu**.

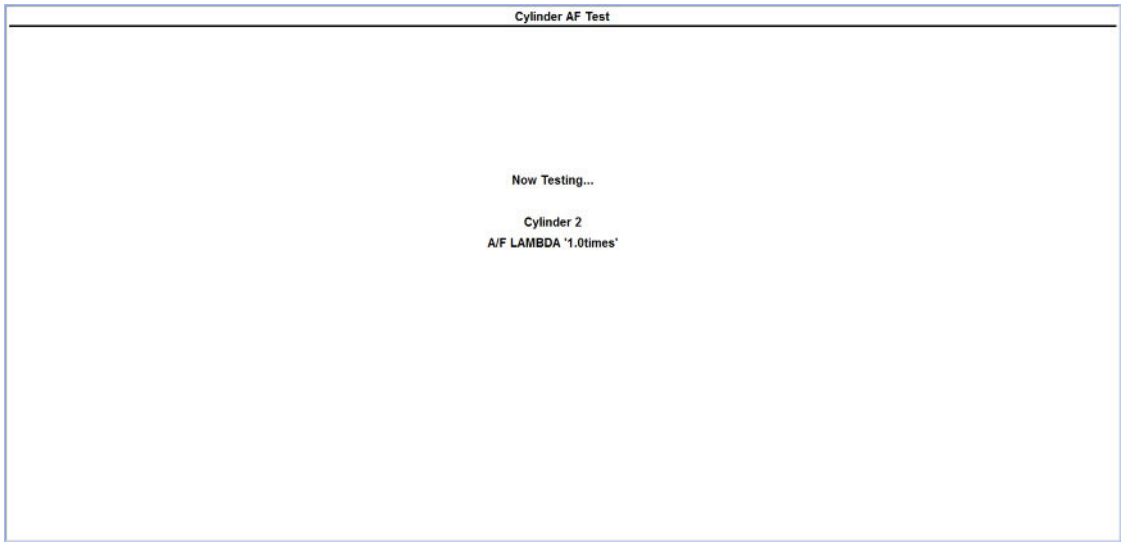


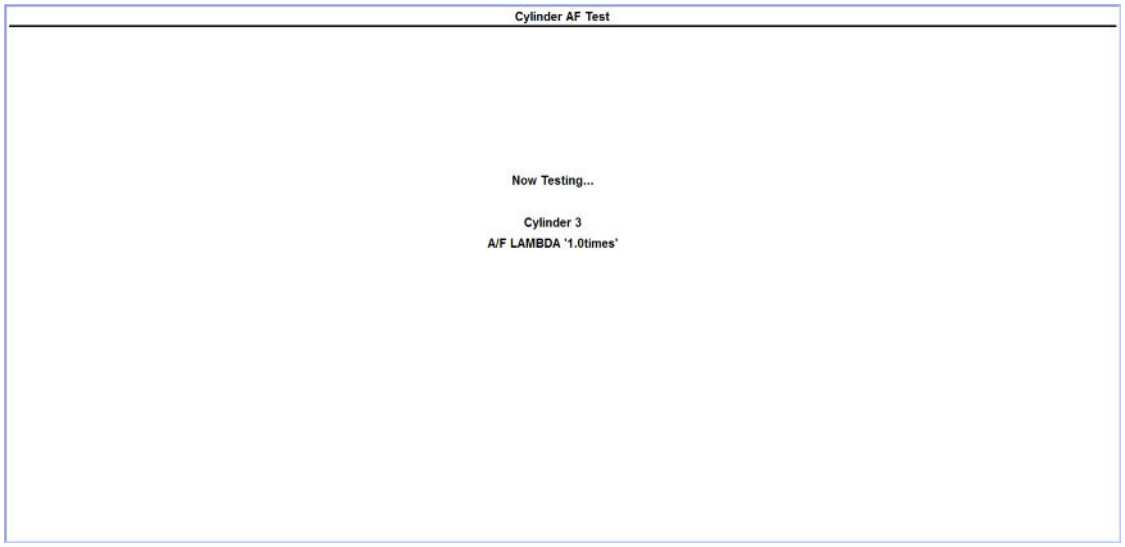
3. Select **Cylinder AF Test** from the **Inspection Menu**.

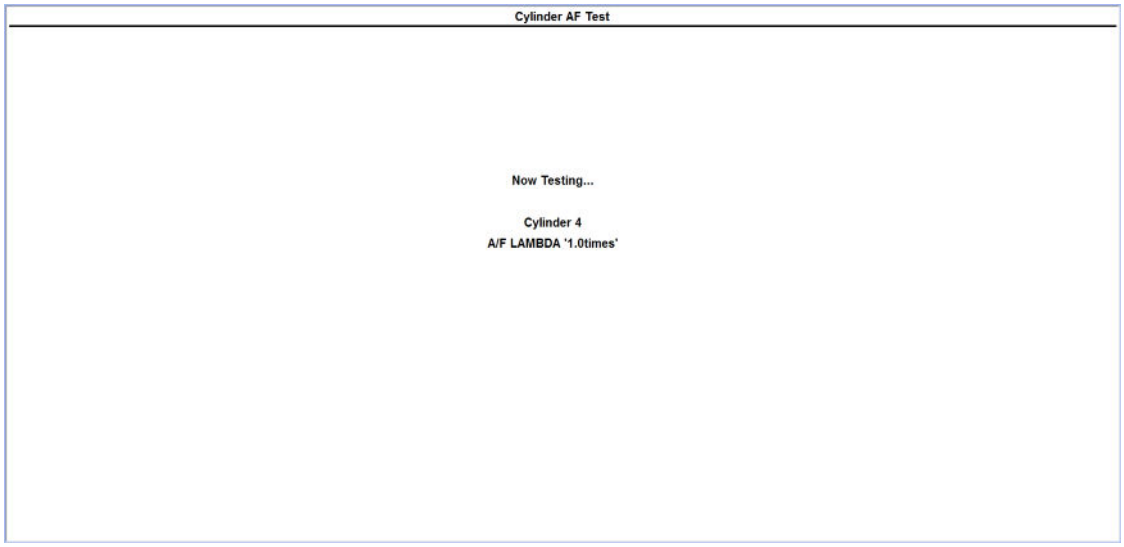


4. Turn the ignition to OFF then ON, and start the engine according to the screen prompts on the i-HDS. The Cylinder AF Test will begin and will check the performance of injectors 1 through 4 individually.

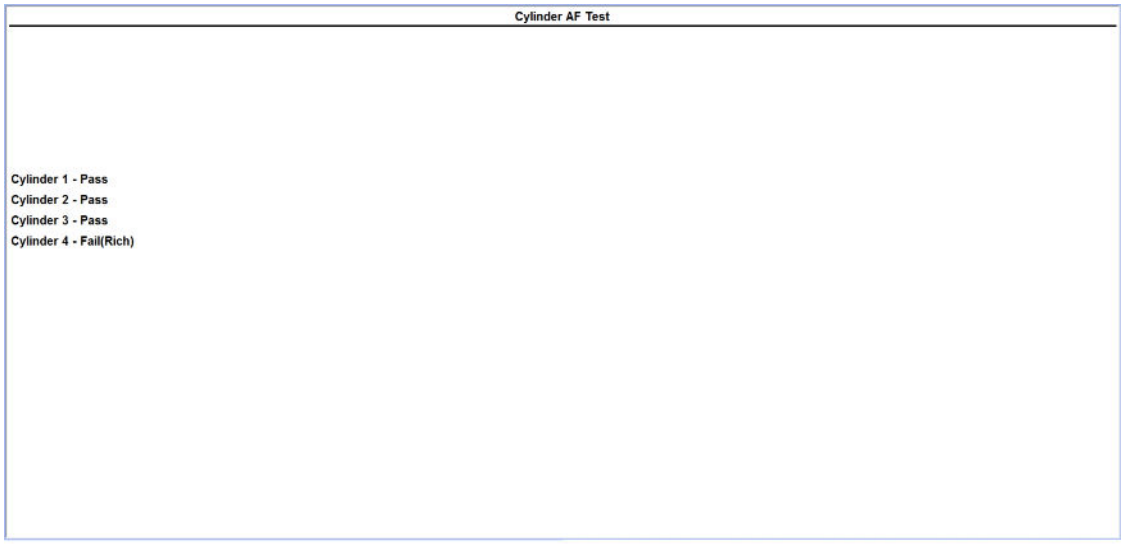








5. Make sure one or more cylinders indicate a failure before replacing the fuel injector set.



NOTE:

- Before disconnecting fuel lines or hoses, relieve pressure from the system by disabling the fuel pump and disconnecting the fuel line/quick disconnect fitting in the engine compartment.
- If one or more cylinders has failed, replace the fuel injector set and fuel joint pipe set as outlined in service information.
- If none of the cylinders have failed, continue troubleshooting for DTC P0420 Catalyst System Efficiency Below Threshold and do not replace the fuel injector set.

END