

Tech Tip No:	TT-14-004
Group:	17-Intake and Exhaust
Issue Date:	5/4/2016

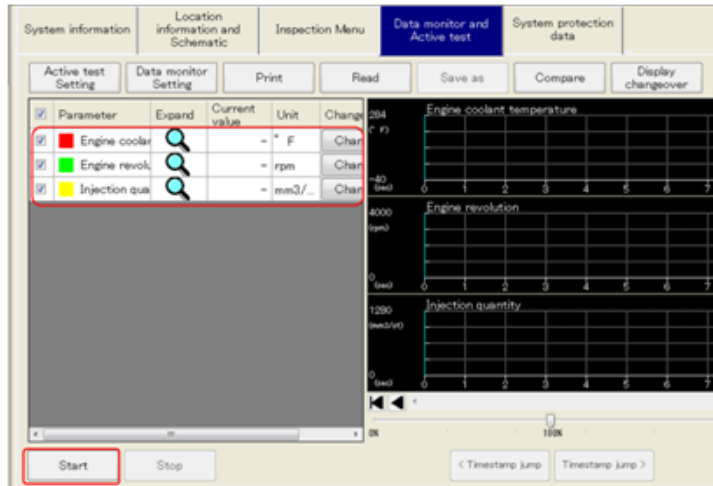
TECH TIP

Exhaust Control Valve Adjustment Procedure

Subject Vehicles: All 2008-2014 Conventional Trucks equipped with a factory installed Exhaust Brake

Inspection Procedure:

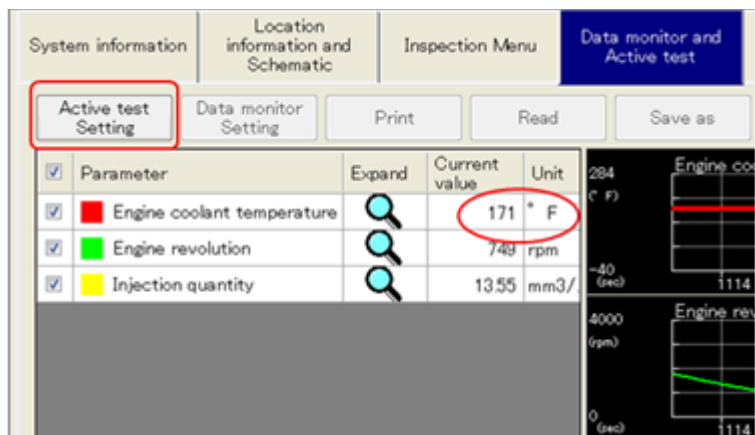
- Using DX2, select the Engine Data Monitor parameters, “Engine Coolant Temperature”, “Engine Revolution” and “Injection Quantity”. Start the engine and select “Start” to begin monitoring data.



IMPORTANT:

The Engine Coolant Temperature must be at least 170°F before proceeding to the next step.

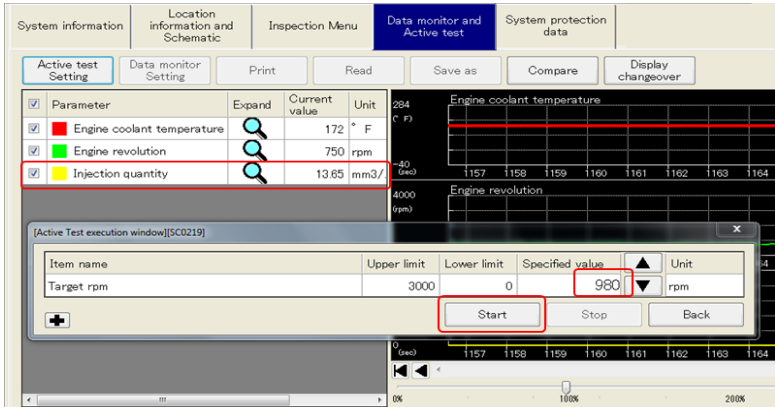
- Once the coolant temp is at least 170° F (76.7°C), click the “Active Test Setting” button.



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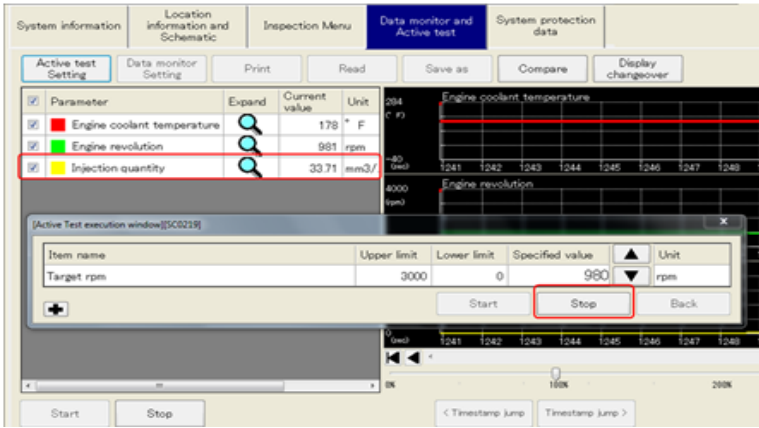
3. Using the “Target RPM” command, raise the engine speed to 980 RPM. After approximately 60 seconds make a note of the Injection Quantity with the Exhaust Brake off.

Brake Off = 13.65



4. Turn the Exhaust Brake On and after approximately 60 seconds make a note of the Injection Quantity with the Exhaust Brake on and stop the Active Test.

Brake On = 33.71



5. Subtract the “Brake on” reading from the “Brake off” reading to arrive at the Exhaust Brake Injection Quantity Difference.

Exhaust Brake on Reading 33.71 mm³/st
Exhaust Brake off Reading -13.65 mm³/st

Difference 20.06 mm³/st

NOTE: Exhaust Brake Adjustment Specification:
Difference Specification: 10 - 14 mm³/st
Target Difference: 12 mm³/st

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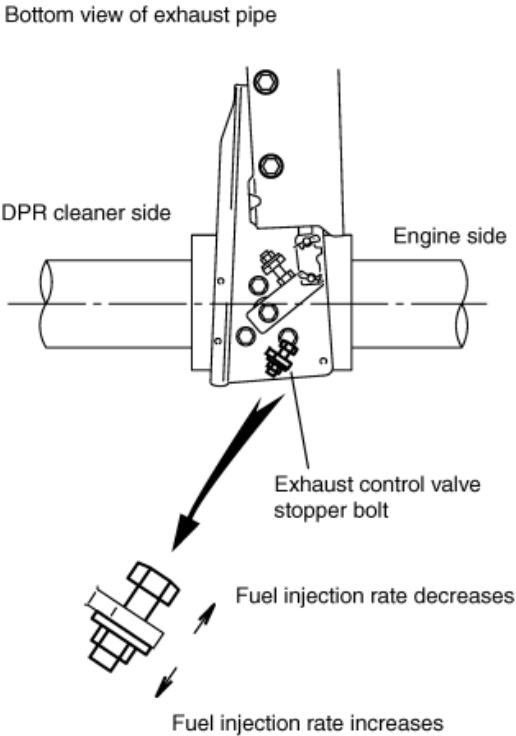
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6. If the Exhaust Brake adjustment is required, refer to the illustration as a guide to adjust the exhaust brake to obtain the Target Difference Specification of **12mm³/st.**

To Decrease the Injection Quantity turn the lower stop bolt Counter Clockwise.

To Increase the Injection Quantity turn the lower stop bolt Clockwise.

IMPORTANT NOTE:
The engine must be OFF while adjusting the exhaust brake.



7. Repeat the preceding steps to achieve the Target Difference Specification of **12mm³/st.**

Adjustment Specifications:

Engine Speed	980 RPM
Acceptable Range	10-14 mm³/st
Recommended Injection Quantity	12 mm³/st