

INSTALLATION INSTRUCTIONS

PRODUCT: RETURN FUEL PRESSURE TEST PORT FOR LML DURAMAX

FPE-2022-71
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FITMENT: 2011-2016 LML Duramax equipped Chevy/GMC trucks

P/N: [FPE-FPTP-GM-1116](#)

OVERVIEW: The return fuel pressure test port for the 2011-2016 LML Duramax is designed to aid the technician in troubleshooting return fuel pressure, often necessary when diagnosing CP4 pump failures.

WARNING: Use of this tool may expose the user to high pressure fluids, extreme caution should be taken when performing these diagnostic procedures. Fleece Performance Engineering is not responsible for any damage caused as a result of using this product.

Measuring return side fuel pressure:

STEP 1: Disconnect the batteries.

STEP 2: Loosen the band clamp that retains the air intake tube with an 8mm socket. Remove the intake tube.



STEP 3: Remove the intake air heater 12v supply with a 10mm socket.



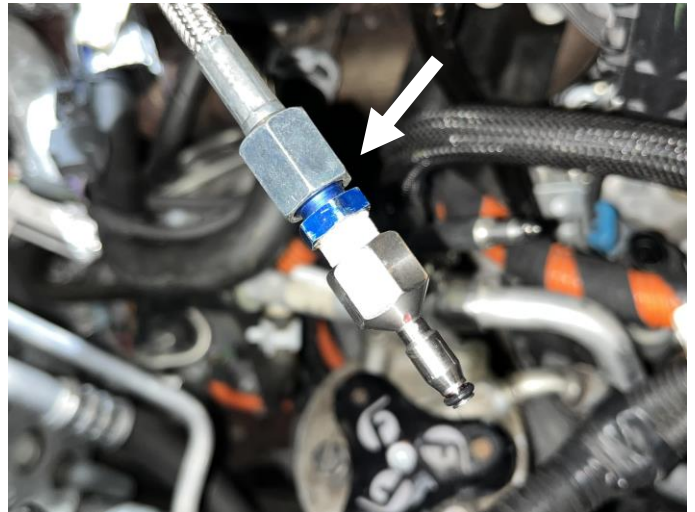
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STEP 4: Remove the fuel vacuum switch connector to improve access to the return fuel port.

STEP 5: Locate the fuel port on the return fuel line. Disconnect the line by squeezing the body of the fuel line connector, apply pressure towards the fuel line to remove and disconnect the fuel line.



STEP 6: Connect an appropriately rated fuel pressure gauge to the 1/8" NPT port on the test port fitting. A gauge capable of reading up to 200 psi is required.



STEP 7: Install the fuel pressure test port into the fuel return line port.



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STEP 8: Re-assemble for operation and test.

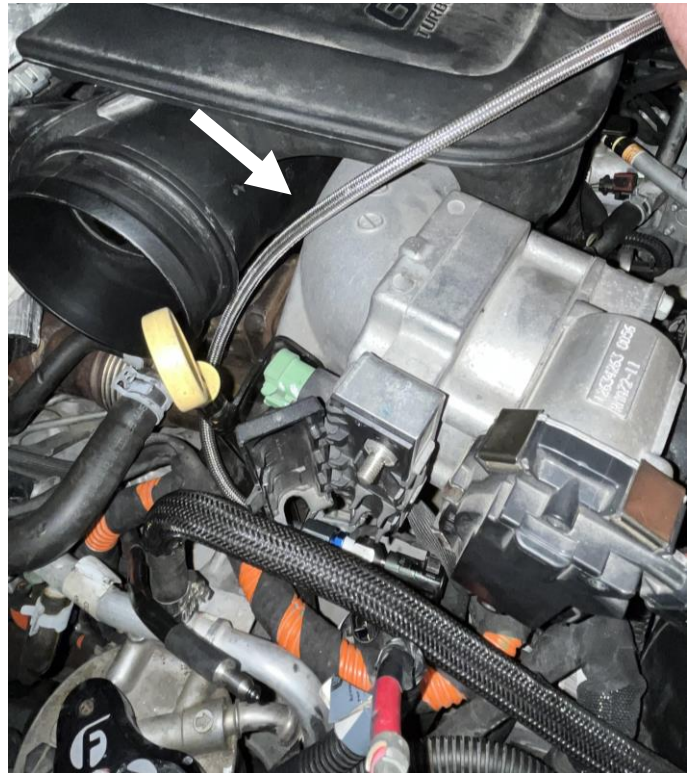
Plug in the vacuum switch.

Reconnect the intake heater 12v supply.

Re-install the air intake tube.

Re-connect the batteries.

Route the pressure gauge line such that it clears components to be re-installed and avoids any hot surfaces or rotating components.



STEP 9: Start the engine. Monitor all connections for potential leaks. Idle the engine for 2 minutes to allow pressure to build in the injector return lines. If the vehicle is a no-start, it may be necessary to crank the engine several times to build return fuel pressure.

Run the engine at 2000 RPM for 2 minutes:

- Verify that the return fuel pressure is greater than 4 bar (58 psi).
- Verify the return line fuel pressure is less than 14 bar (200 psi).

After testing is complete, carefully release any residual fuel pressure in the return fuel system.

Remove test port following the same procedures as performed during installation. Re-install all return fuel line connections.

