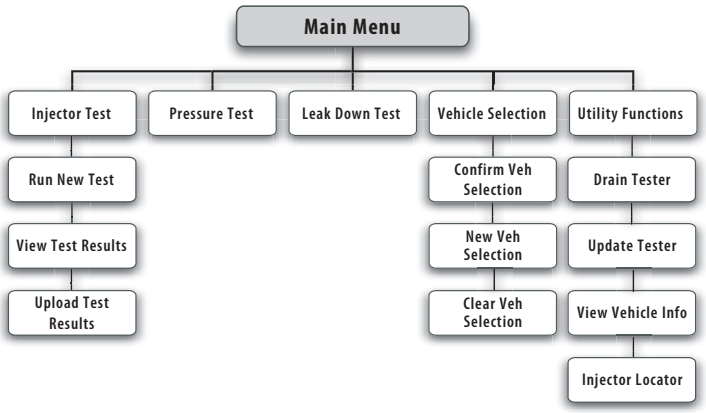
ACTIVE FUEL INJECTOR TESTER QUICK REFERENCE GUIDE

Please make sure to carefully read this and the User Guide before you begin to use the tester.



AFIT—Active Fuel Injector Tester **FMU—Fuel Management Unit**
DLC—Diagnostic Link Connector **MCU—Main Control Unit**

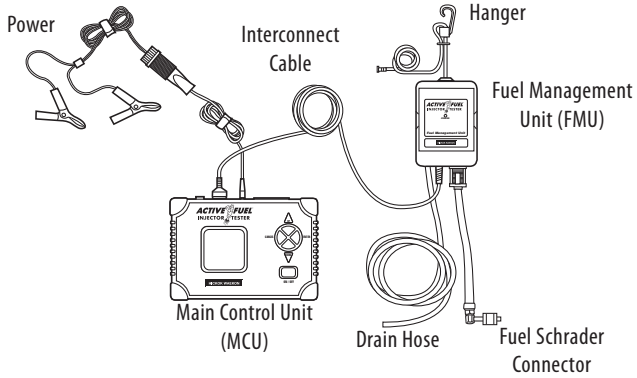
—Testing—

1. Connect the tester to the vehicle
   - DLC Connection
   - Direct Connection
2. Hang the FMU vertically from the vehicle's hood
3. Connect the MCU to power
   - 12V power adapter
   - Battery hookup
4. Insert the drain hose into an approved fuel container (min. 16 oz.)
5. Turn the MCU on
6. Press **ENTER** to continue to Vehicle Selection
7. Select a vehicle
8. Select a test
   - Injector Test
   - Pressure Test
   - Leak Down Test
9. View the test results
   - On-screen
   - Upload to a computer

⚠ IMPORTANT

*If the engine is hot, or after cleaning the injectors, make sure you allow for a cool down period **before** you begin testing. A hot soaked engine condition may affect the test results.*

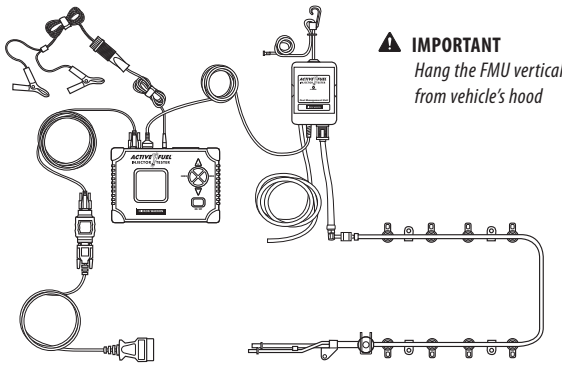
—Connecting the Tester to Power—



1. Make sure the vehicle's ignition key is in the OFF position.
2. Connect the interconnect cable from the FMU to the MCU.
3. Connect the power cord to the MCU and then to power. *Note: If using the alligator clips make sure to connect the red clip to the battery's positive (+) terminal, and the black clip to the negative (–) terminal.*

—DLC Connection—

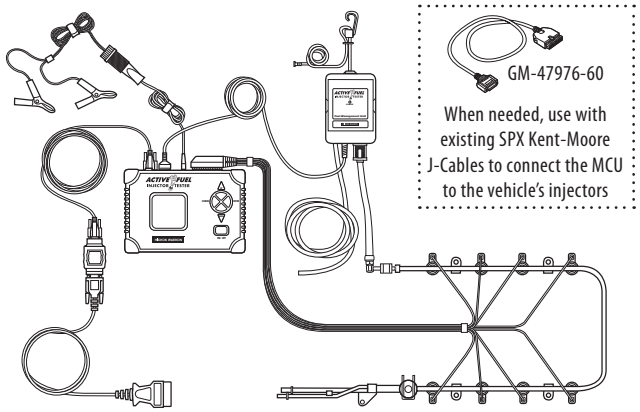
Used with most vehicles, this connection controls the injectors and the fuel pump through the DLC. Use this hookup when using the vehicle's diagnostic link for injector control. This connection ***does not*** require the use of the injector harness.



1. Connect the 6' serial cable to the MCU and the DLC adapter.
2. Connect the DLC adapter to the Serial to OBDII cable.
3. Connect to the vehicle's OBDII connector.
4. Connect the Fuel Schrader Connector to the vehicle's fuel rail at the fuel test port.

—Direct Injector Connection—

This connection directly controls the injectors from the MCU. The fuel pump is controlled through the DLC connector. Use this hookup when testing vehicles that do not support diagnostic link injector control. You must use the injector harness with this connection. However, *do not* connect the injector harness until instructed to by AFIT.



1. Connect the 6' serial cable to the MCU and the DLC adapter.
2. Connect the DLC adapter to the Serial to OBDII cable.
3. Connect to the vehicle's OBDII connector.
4. Connect the Fuel Schrader Connector to the vehicle's fuel rail at the fuel test port.
5. Connect the injector harness (or J-Cable adapter and cable, depending on vehicle) to the MCU and the vehicle's injectors. IMPORTANT! Do not perform this step until instructed to by AFIT (the unit will prompt for the correct injector harness or J-Cable adapter and cable).

Note: To correctly match test results to the injector, always use the injector locator function on a direct connection hookup.

When using the optional kits for older GM and other manufacturers' vehicles, direct hookup to the fuel pump circuit may be required. See the AFIT User Guide for details.

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—Viewing Test Results on AFIT—

You can view the results of the last completed test by navigating to, and selecting, **View Test Results**. Press UP and DOWN to scroll through the following results:

- Injector Balance Graph
- Injector Flow Graph
- Vehicle Information
- Injector Balance Table
- Injector Flow Table

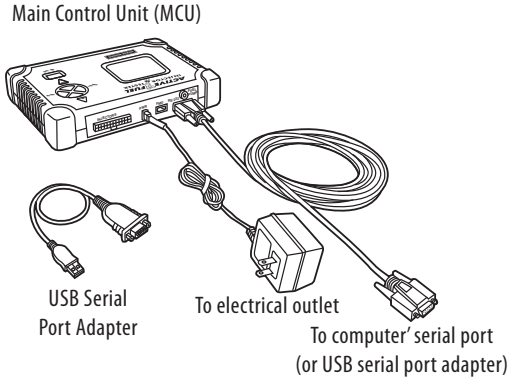
DLC connections results are displayed as Injector 1, 2, 3 etc. corresponding to engine cylinder numbers. Direct connection results are displayed as Injector A, B, C etc. and the Injector Locator should be used to match the results to the injector.

⚠ IMPORTANT!

Results from test to test on the same engine can vary by+/-3%. Small test to test result variations should not be a source of concern. Consult the Service Information/Shop Manual for information on test results that should be of concern.

—Uploading Test Data to the Shop Computer—

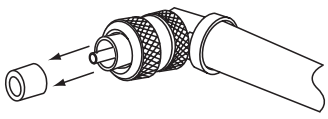
Before you begin, make sure the software is installed on the computer. Also, if you need to use the USB serial port adapter, make sure to install the USB serial port adapter software driver included on the AFIT CD.



1. Connect the MCU to the computer.
2. Turn the MCU on.
3. Start the AFIT PC application.
4. Select **ADD NEW**, or **EDIT** existing customer/vehicle information.
5. Click **Load Injector Data** in the AFIT PC application.
   IMPORTANT! *Make sure the MCU is powered on before selecting*
6. On the MCU navigate to, and select **Upload Test Results**. Once AFIT completes the upload, the unit returns to the Main menu and the AFIT PC application displays the data.
7. In the AFIT PC application, click **SAVE** to retain information, or **CANCEL** to discard. Retained customer records may be printed at anytime.

—Replacing the Fuel Schrader Connector Seal—

Replace the seal whenever it becomes damaged, deformed, fails to seal, or leaks.



1. Using a flat head screw driver, or similar object, gently pry the old seal out of the connector.
2. Discard the old seal and install a new seal.

For technical assistance or to order service parts, contact: gmglobaltools.com (844-742-8471)

—Viewing Results on the Shop Computer—

After uploading test data to the shop computer, you can view the results of any saved test by navigating to, and selecting, **Customer/Vehicle Info Search**. Select the line for the customer or vehicle you wish to view. By default, the most recent upload is displayed.

DLC connection results are displayed as Injector 1, 2, 3 etc. corresponding to engine cylinder numbers. Direct connection results are displayed as Injector A, B, C etc. and the Injector Locator function should be used to match the results to the injector.

Note: The AFIT PC application stores only two test data records for each customer info record—Balance 1/Flow 1 and Balance 2/Flow 2.

The first set of test results uploaded to a customer record are displayed in the BALANCE 1/FLOW 1 graph and table. The second set of test results uploaded are displayed in the BALANCE 2/FLOW 2 graph and table. Additional uploads to that customer record will overwrite the BALANCE 2/FLOW 2 data.

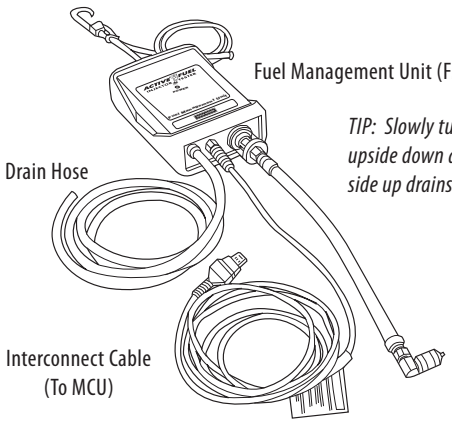
TIP: To store additional test results, create a new customer record for that particular customer.

—Draining the FMU—

⚠ CAUTION!

It is recommended that you drain the fuel Management Unit after each use to avoid hazardous situations.

- *Do not over tighten the fuel filter*
- *Do not loosen the filter to drain the Fuel Management Unit*

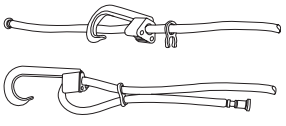


TIP: Slowly turning the FMU upside down and then right side up drains the fuel faster.

Note: To complete this procedure, the FMU must be connected to the MCU before you begin.

1. Disconnect the FMU from the vehicle's fuel rail.
2. Navigate to and select **Drain Tester**. Follow the on-screen instructions:
   - Place drain hose in approved container.
   - Select **Continue** to start draining. *Draining Tester* is displayed. To stop draining and return to the Main menu, select **Cancel**.

—Adjusting the Hanger—



1. Unhook the bungee cord from the open end of the clip.
2. Slide the hook along the bungee cord to the desired position.
3. Reattach the bungee cord to the open end of the clip.

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