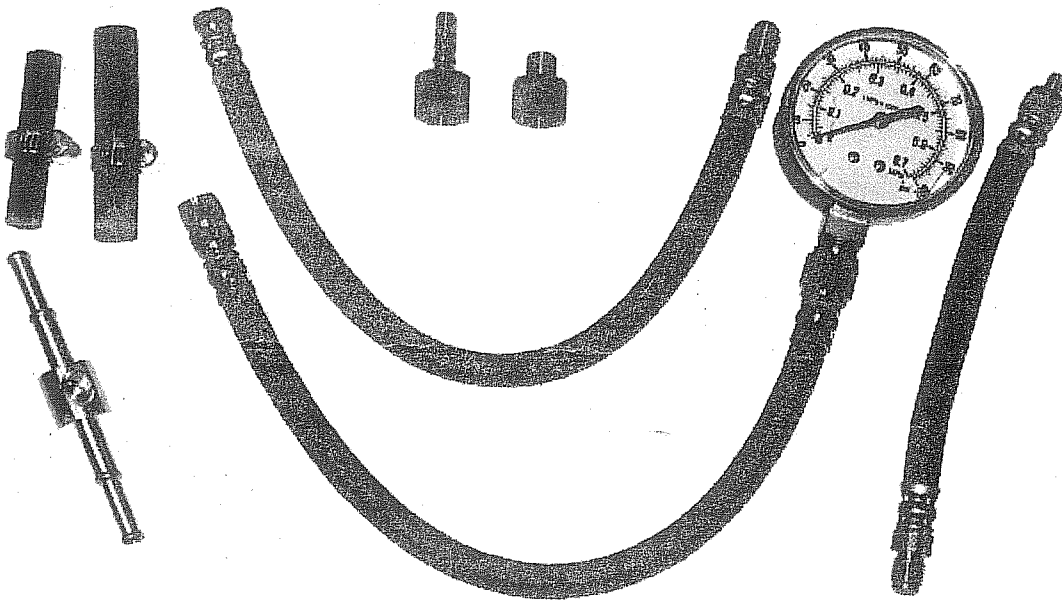


TU-113 FUEL INJECTION TEST KIT

ASSEMBLY AND OPERATING INSTRUCTIONS



Specifications

Item	Description
Function	Indicates if fuel pump is defective or inconsistent in pressure flow
Pressure Gauge	2-9/16"; 0~100 PSI, 0-7 Bar; Fitting: 1/4"x18 NPT swivel
Fuel Injection Types	For most fuel injection systems except: Bosch, C.I.S. Jethronic, and throttle body systems on G.M. vehicles.
Weight	1 lb.

Note: Accuracy of the Gauge is $\pm 2\%$.

Operation

Caution: Before making connections and testing, place a dry chemical (Class B) fire extinguisher nearby.

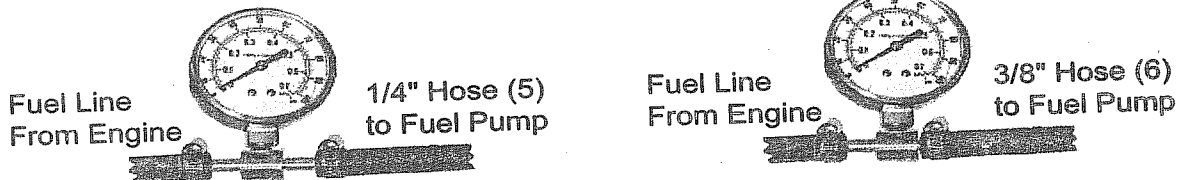
The components in this Fuel Injection Test Kit enable the testing of the fuel delivery pressure to the engine. Pressure Gauge (1) connections are made either directly to the pump, or in-line with the pump and engine.

1. Relieve the fuel line pressure from the vehicle fuel system. Refer to the vehicle manufacturer's service manual for instruction on relieving pressure from the fuel line, testing procedures and connection points, and normal pressure readings.
2. Use the various fittings and hoses to connect the Pressure Gauge (1) directly to the fuel pump, as in the case of the VW®, or in-line with the fuel pump and engine for most other vehicles. See connection examples on the next page. Use a small amount of pipe compound or teflon tape on the connection threads to prevent leaks. Tighten using a wrench (not supplied).

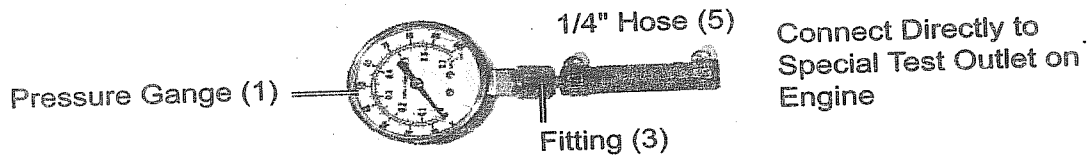
Caution: Make sure all connections are tight to avoid fuel leaks.

3. Start the engine and immediately check for fuel leaks. If fuel leaks are found, turn engine off and fix leaks.
4. Read the pressure off the Pressure Gauge (1).
5. Turn off the engine and remove the keys from the ignition.
6. Wrap a cloth around the hose connection point before relieving the pressure from the fuel line, and remove testing components.
7. Reconnect vehicle's fuel injection line.
8. Wipe up any spilled fuel. Dispose of fuel-soaked rags in a fireproof container.
9. Start the engine and check for leaks. Fix leaks if found.
10. Clean and store Fuel Injection Test Kit components and place in the plastic kit bag.

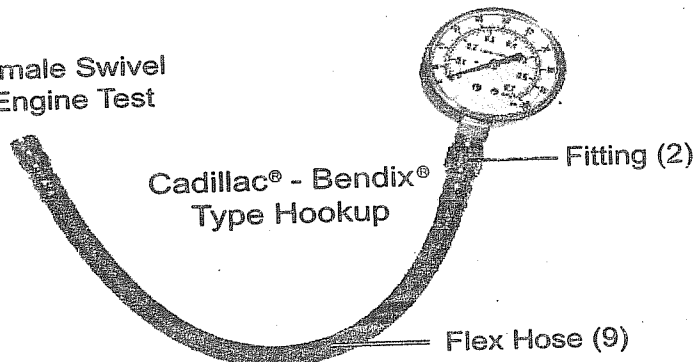
Typical Hookup



VW® Hookup



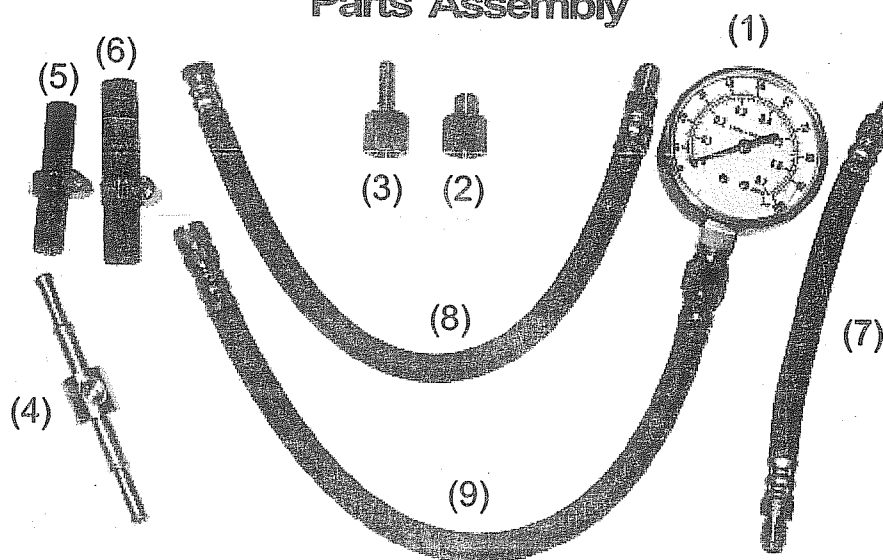
Screw on Female Swivel Coupling to Engine Test Fitting



Parts List

Item	Description	Qty
1.	Pressure Gauge	1
2.	Fitting, Brass, 1/8"-27 NPTx 1/4"-18NPT	1
3.	Fitting, brass, 1/4" Barbed x 1/4"-18NPT	1
4.	Fitting, aluminum, 1/4" & 3/8" Barbed x 1/8"-24 NPT	1
5.	Hose, rubber, 1/4" x 2.5" (L)	1
6.	Hose, rubber, 3/8" x 3.0" (L)	1
7.	Flex Hose, short	1
8.	Flex Hose, medium	1
9.	Flex Hose, long	1
10.	Clamp, Rubber Hose	2

Parts Assembly



NOTE: Some parts are listed and shown for illustration purposes only and are not available individually as replacement parts.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER NOR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

ADDENDUM A**EXAMPLES OF FUEL INJECTION FUEL PUMP PRESSURES**

Note: Always read the vehicle's factory service manual to determine the actual Fuel Injection Fuel Pump pressure. The chart below is meant to be only a guideline for pump pressure.

U.S. Built Vehicles

Cadillac - EFI

Cadillac - DEFI

Imperial

Lincoln & Versailles

Pump Pressure

37.5 to 41 PSI

9 to 12 PSI

8 PSI

30 to 40 PSI

Foreign Built Vehicles

Alfa Romeo

Alliance (49 states) Bendix Type

Alliance (California only) L-Oetric

Audi-Fox

BMW

Datsun

Fiat

Jaguar

Mercedes Benz

Porsche

Renault 17TS

Saab

Volkswagen

Volvo

Pump Pressure

16 to 18 PSI

28 to 36 PSI

36 PSI

66.8 to 75.3 PSI

21.7 to 40 PSI

28 to 43 PSI

28 to 30 PSI

28 to 30 PSI

29 to 30 PSI

28.4 PSI

35 PSI

27 PSI

28 PSI

28 PSI