



Installation Instructions

Fuel Pressure Gauge Set

Honda Civic/CRX/del Sol

Acura Integra/NSX - Eagle Talon

Mitsubishi Eclipse - Plymouth Laser

Part Number 46054

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The **B&M Fuel Pressure Gauge Set** has been designed to work on all late model Honda Civics/CRX's/del Sols, Acura Integras/NSX's, Mitsubishi Eclipses, Eagle Talons & Plymouth Lasers.

The **B&M Fuel Pressure Gauge Set** allows the user to accurately measure fuel pressure. When used in conjunction with the **B&M CommandFlo Fuel Flow Modifier**, the user may accurately adjust fuel pressure to compensate for engine modifications. Most factory computers will compensate for minor airflow modifications (low restriction intake and exhaust) at part throttle operations but have no way to adjust at WOT (Wide Open Throttle). The results are a lean mixture right where you need *more* fuel! One way to correct this is to adjust fuel flow via fuel pressure. Most people don't understand that by increasing fuel pressure (on a fuel injection system), fuel flow increases. The formula for calculating flow increase based on fuel pressure is:

F1 = Injector Flow (cc/min)

P1 = Current Fuel Pressure (psi)

F2 = New Injector Flow (cc/min)

P2 = New Fuel Pressure (psi)

$$P2 = P1 \times \left(\frac{F2}{F1} \right)^2$$

Example:

You've added a high flow exhaust that increases airflow 10%. What pressure should the system be set to?

F1 = 270 cc/min

F2 = 297 cc/min (270 + 10%)

P1 = 43 psi

$$P2 = 43 \text{ psi} \times \left(\frac{297}{270} \right)^2$$

or
P2 = **52 psi**

INTRODUCTION

The **B&M Fuel Pressure Gauge Set** requires the user to assemble the gauge to the banjo bolt (and 90° fitting depending on application). Since the gauge and fitting are connected with a 1/8" NPT (National Pipe Thread), please use a pipe sealer such as Teflon® to avoid possible fuel leaks. The connection between

the fitting and the fuel line requires no sealer since they employ washers.

INSTALLATION

The fuel pressure tap on the late model Honda Civic/CRX/del Sol, Acura Integra/NSX, Mitsubishi Eclipse, Eagle Talon & Plymouth Laser is located on top of the fuel filter which is mounted on the passenger side firewall (driver's side for the NSX). We suggest the vehicle be allowed to cool for a while before you begin since you will be working around the fuel system.

CAUTION: THE FUEL SYSTEM CONTAINS FUEL UNDER HIGH PRESSURE EVEN WHEN THE ENGINE IS NOT RUNNING. BEFORE DISCONNECTING A FUEL LINE, WRAP THE FITTING WITH A RAG TO PREVENT FUEL SPRAY.

Remove the fuel pump fuse from the fusebox. Try starting the vehicle several times until it will not remain running. This will help relieve pressure in the fuel system

(NOTE: For some vehicles it may be helpful to remove the battery). Place a towel around the top of the fuel filter. Remove the banjo bolt assembly (be careful of spraying fuel!). See **Figure One**. Replace the top washer with the supplied copper washer (Note: If the bottom washer is damaged it must be replaced with Acura p/n 90428-PD6003 or Mitsubishi p/n MB906711. Install the fitting assembly with the copper washer, banjo fitting (fuel line) and stock washer into the fuel filter (See **Figure Two**). Tighten to 16 ft-lb. When installing the gauge, you have the option of mounting the gauge face up (as shown in **Figure Two**) or face sideways by using the supplied 90° brass fitting. Make sure to use Teflon tape (not supplied) on the fuel pressure gauge threads (and 90° fitting, if applicable), then either screw the gauge into the banjo bolt or 90° fitting. Tighten the gauge to 10 ft-lb while using a backup wrench on the banjo bolt or brass fitting. **DO NOT OVERTIGHTEN!** If you used the 90° fitting, screw the fitting/gauge assembly into the banjo bolt. Tighten the 90° fitting to 10 ft-lb while using a backup wrench on the banjo bolt. **DO NOT OVERTIGHTEN!** **Note: Carefully lower hood (without fully closing) and check for sufficient clearance between the top of the gauge and the hood.** Reinstall fuse. Start engine and check for fuel leaks.

Parts List

- 1 Fuel Pressure Gauge, 0 - 100 psi
- 1 Brass Banjo Bolt
- 1 90° Brass Fitting
- 1 Copper Washer
- 1 Instruction Sheet

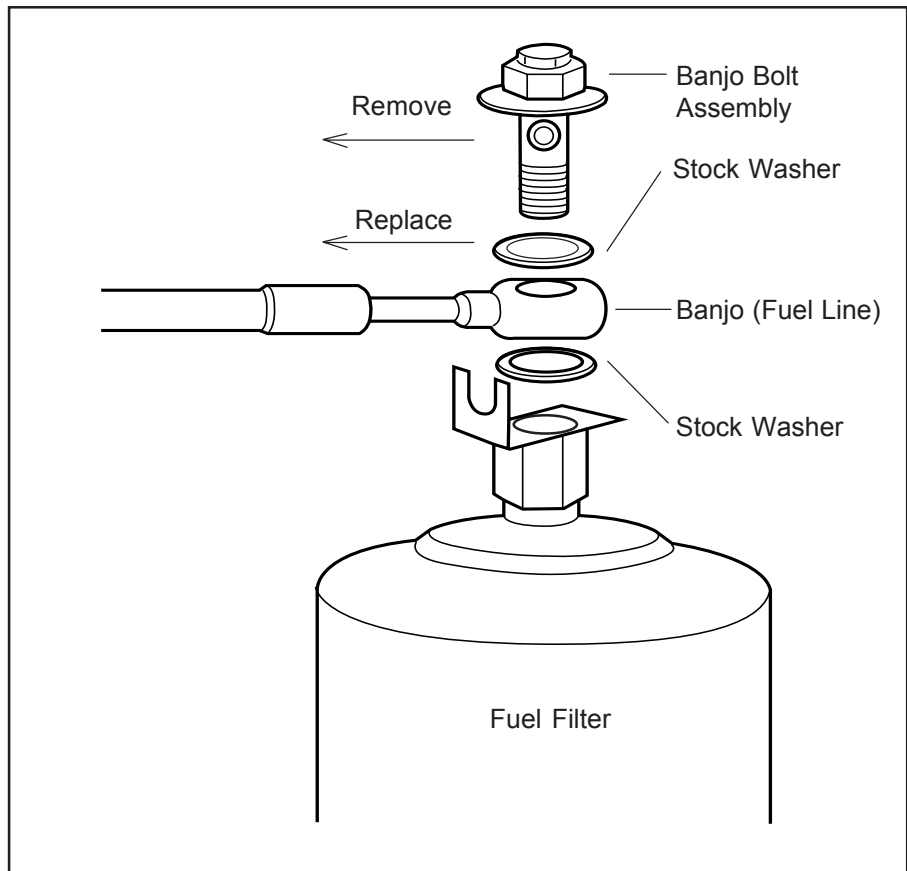


Figure One

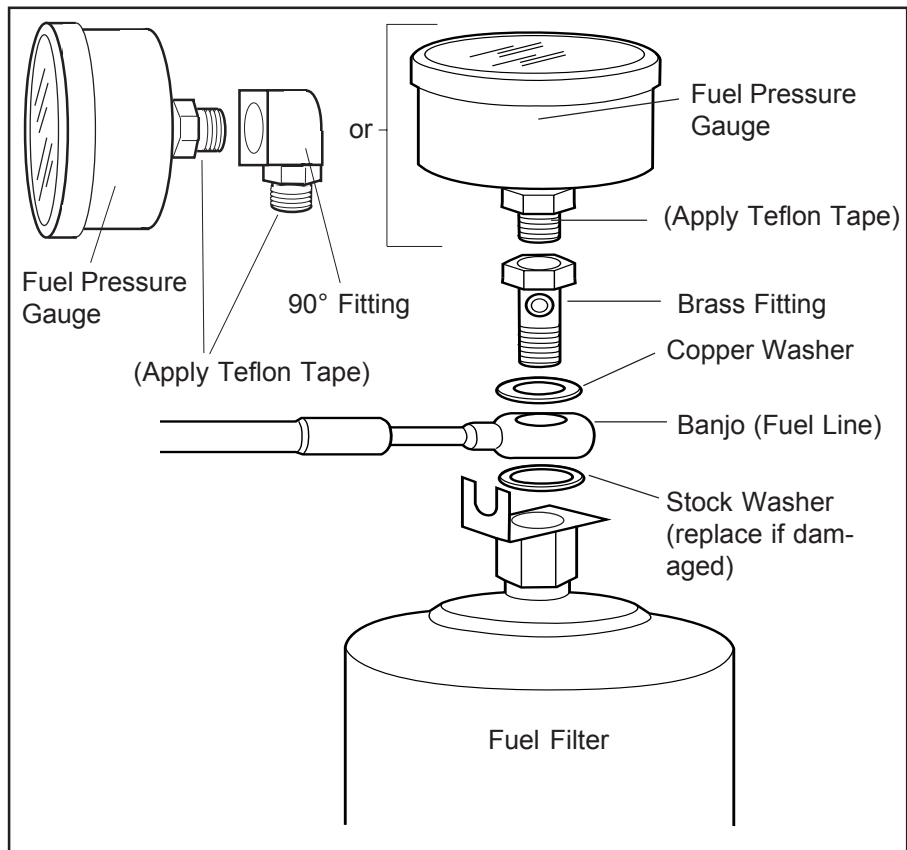


Figure Two