# 2-Port Fuel Pressure Regulators PN 4207, PN 4207M and PN 4210

**Note:** This product is legal in California only for racing vehicles which may never be operated upon a highway.

# Parts Included in this kit:

- 1 2-Port Fuel Pressure Regulator
- 1 Regulator Bracket
- 1 Plug, 1/8" NPT

#### **FUEL APPLICATIONS**

PN 4207 Gasoline, Automotive/Street and Racing

PN 4207M Gasoline, Marine

PN 4210 Alcohol/Methanol, Automotive/Street and Racing

#### **SPECIFICATIONS:**

Inlet and outlet port thread sizes: 3/8" NPT Fuel pressure port thread size: 1/8" NPT Fuel pressure adjustment range: 4–12 PSI Maximum inlet pressure: 20 PSI

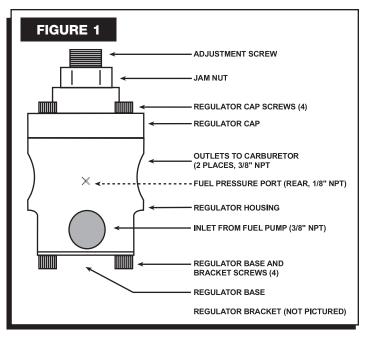
## **GENERAL INFORMATION**

The 2-Port Regulator is designed to regulate fuel pressure between high pressure fuel pumps and carburetors. The regulator is recommended for Mallory COMP PUMP® 140 Series Electric Fuel Pump. Also, recommended for Mallory High Performance and Competition Mechanical Fuel Pumps.

#### **MOUNTING PROCEDURE**

The regulator may be mounted at any angle. For maximum efficiency, mount the regulator as close as possible to the carburetors. DO NOT mount the regulator on or near exhaust manifolds.

A bracket is provided for convenient mounting under an intake bolt. Loosen the four regulator base and bracket screws. Remove two of these screws. Position the bracket over the two screw holes. Install the two screws. Tighten the four screws between 16 and 19 in./lbs.



## FITTINGS AND FUEL LINE

Purchase fittings (and plugs) as necessary. Use a thread sealant compound on the fitting threads. You can find thread sealant compound at a hardware store. Do not use Teflon tape. Install the fittings. Do not overtighten the fittings. This could damage the regulator. Connect the fuel lines. See Figures 1 and 2.

#### **FUEL PRESSURE ADJUSTMENT**

**Note:** Engine must be running when adjusting fuel pressure.

#### Step 1

Connect a fuel pressure gauge to the fuel pressure port.

#### Step 2

Release the jam nut on the adjustment screw.

## Step 3

Start the engine. (Check the fuel system for fuel leaks. Shut off the engine and correct any fuel leaks before proceeding.)

#### Step 4

Adjust fuel pressure. Turn adjustment screw clockwise to increase fuel pressure or counterclockwise to decrease fuel pressure. Rev the engine slightly several times. Check fuel pressure. Repeat if necessary.

# Step 5

Tighten jam nut and shut off engine.

### **REGULATOR MAINTENANCE**

#### Step 1

Release the jam nut and remove the adjustment screw. Set aside the diaphragm spring.

#### Step 2

Remove the four regulator base and bracket screws.

# Step 3

Remove the regulator base. Remove the gasket.

#### Step 4

Set aside the plunger spring and unscrew the plunger. O-Ring remains on the plunger.

#### Step 5

Remove the four regulator cap screws.

#### Step 6

Remove the regulator cap.

#### Step 7

Remove the diaphragm.

# Step 8

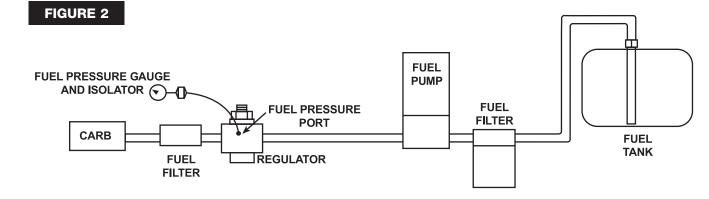
Thoroughly clean all surfaces.

#### Step 9

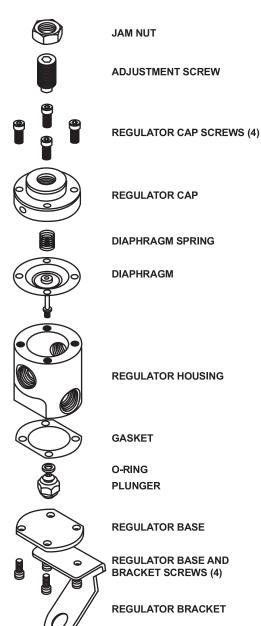
Assemble in reverse order. Tighten the four regulator cap and four regulator base and bracket screws between 16 and 19 in./lbs.

#### Step 10

Adjust fuel pressure. See Fuel Pressure Adjustment stated earlier.



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REGULATOR SERVICE PARTS (INCLUDES FUEL TYPE CONVERSIONS AS NOTED)	KIT PART NO.
Diaphragm kit, gasoline, RFG (reformulated gas, oxygenated fuel)	
For Regulator Part Nos. 4207 and 4207M with round regulator cap and fuel pressure port. Also used to convert Regulator Part No. 4210 to use gasoline.	3149
Diaphragm kit, Alcohol/Methanol	
For Regulator Part No. 4210. Also used to convert Regulator Part No. 4207 with round regulator cap and fuel pressure port to use alcohol/methanol.	3149



TECH NOTES

#### **Service**

In case of malfunction, this MSD component will be repaired free of charge according to the terms of the warranty. When returning MSD components for warranty service, **Proof of Purchase** must be supplied for verification. After the warranty period has expired, repair service is based on a minimum and maximum fee.

All returns must have a Return Material Authorization (RMA) number issued to them before being returned. To obtain an RMA number please contact MSD Customer Service at 1 (888) MSD-7859 or visit our website at www.msdperformance.com/rma to automatically obtain a number and shipping information.

When returning the unit for repair, leave all wires at the length in which you have them installed. Be sure to include a detailed account of any problems experienced, and what components and accessories are installed on the vehicle. The repaired unit will be returned as soon as possible using Ground shipping methods (ground shipping is covered by warranty). For more information, call MSD at (915) 855-7123. MSD technicians are available from 7:00 a.m. to 5:00 p.m. Monday - Friday (mountain time).

#### **Limited Warranty**

MSD warrants this product to be free from defects in material and workmanship under its intended normal use\*, when properly installed and purchased from an authorized MSD dealer, for a period of one year from the date of the original purchase. This warranty is void for any products purchased through auction websites. If found to be defective as mentioned above, it will be repaired or replaced at the option of MSD. Any item that is covered under this warranty will be returned free of charge using Ground shipping methods.

This shall constitute the sole remedy of the purchaser and the sole liability of MSD. To the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representation whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall MSD or its suppliers be liable for special or consequential damages.

\*Intended normal use means that this item is being used as was originally intended and for the original application as sold by MSD. Any modifications to this item or if it is used on an application other than what MSD markets the product, the warranty will be void. It is the sole responsibility of the customer to determine that this item will work for the application they are intending. MSD will accept no liability for custom applications.