



# Installation Manual

Adjustable Fuel Pressure Regulator

501-0043



This installation is not recommended for a novice or the “new guy” in the shop. Use caution when installing, as not to damage any factory components or components included in this kit. If you are not experienced in working on cars we recommend taking this kit to your local performance shop for installation.

**NOTE: Precision Raceworks, LLC holds no responsibility for any damage that occurs or laws that are broken in the installation or use of this kit. This kit is intended for off-road purposes only.**

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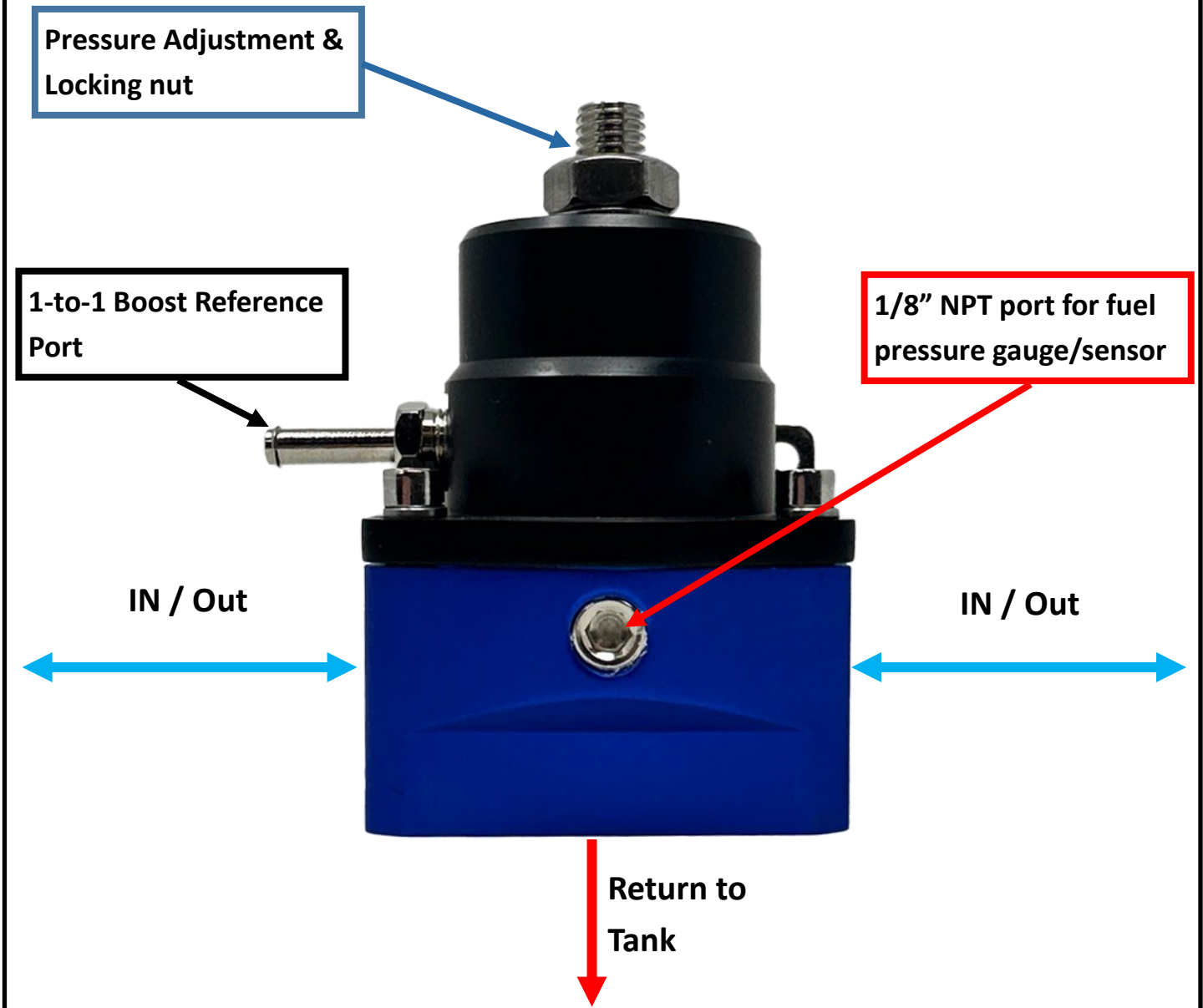
## Kit Contents

QTY	Description	QTY	Description

## Tools Necessary

QTY	Description	QTY	Description
1	4mm Allen—to replace diaphragm		
1	5mm Allen		
1	17mm Wrench/ Socket		

## Precision Raceworks Fuel Pressure Regulator



**Setting your fuel pressure regulator is an important step in the installation of your regulator. This install guide goes over the basics of installing your fuel pressure regulator and setting the pressure.**

- If not utilizing the 1-to-1 boost reference port, **DO NOT** plug it. It must remain open to atmosphere
- All fuel line ports are AN6 ORB and may require adapters for your line configuration
- USE TEFLON tape on any accessory you insert into the 1/8" NPT port

## Setting Base Pressure

The Precision Raceworks Adjustable Fuel Pressure Regulator is NOT preset to any specific pressure and must be adjusted. Please determine the appropriate base pressure for your application before starting.

1. Remove vacuum line connect to 1-to-1 boost reference port (if utilizing) leaving it open to atmosphere
2. Activate the fuel pump at 100% duty cycle. (Activating only a secondary pump may be acceptable in this case)
3. Loosen the lock nut on top
4. Use a 5mm Allen Key to loosen (lower the pressure) or tighten (increase pressure) of the adjustment screw on top
5. Once target base pressure is reached, tighten lock nut while holding the adjustment screw in place.
6. Turn off pump(s) and re-attach vacuum line if utilized.

## Replacing Diaphragm

The Precision Raceworks Adjustable Fuel Pressure Regulator utilizes a Aeromotive replacement diaphragm. This only needs to be replaced if you are having fuel leaking through either the 1-to-1 boost reference port or through the adjustment screw.

1. Remove fuel pressure from system
2. Use a 4mm Allen Key to loosen the 4 screws holding the top to the body in a gradual crossing pattern
3. Replace Diaphragm with ball pointing to the orifice in the body of the regulator.
4. Order of components—Body, Diaphragm, spring, metal plate, top cover.
5. After placing components in correct order, re-install the 4 screws in an alternating pattern.