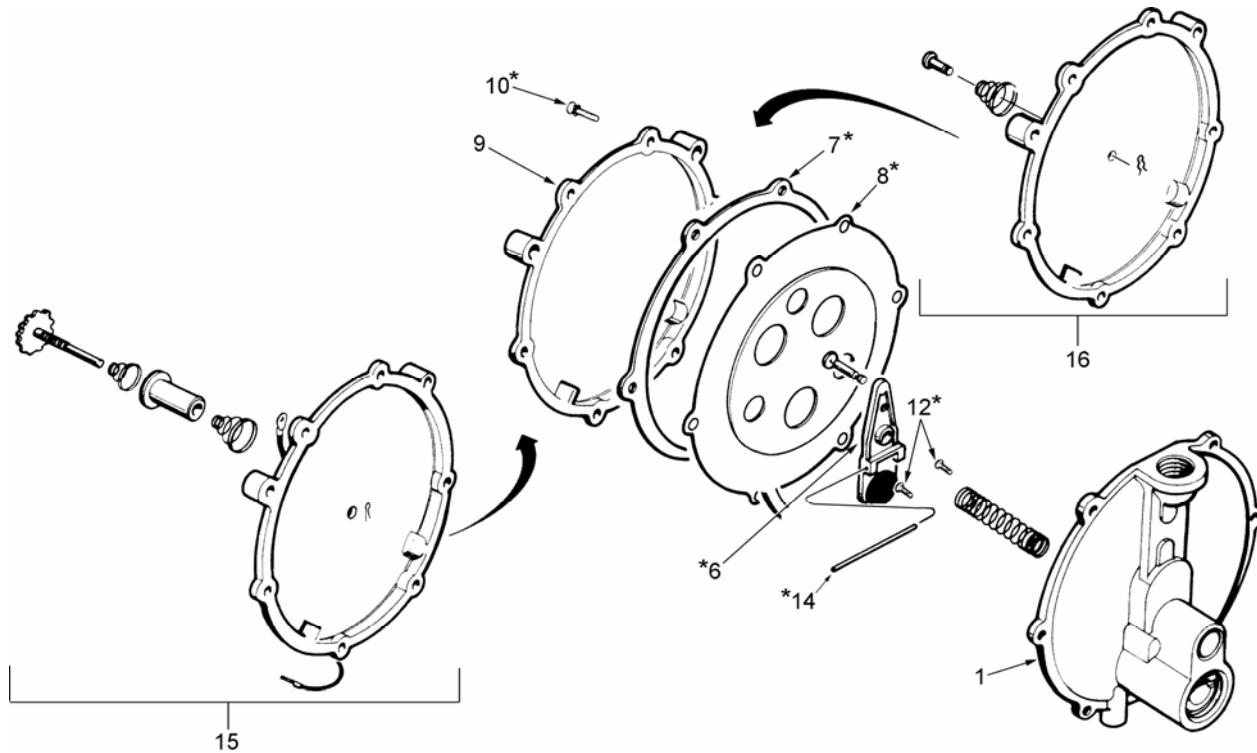


# KN Regulator Repair Instructions



**Illustrated view of the KN Regulator, including the accessories Automatic Primer (item 15) and Manual Primer (item 16). Items denoted by asterisks (\*) are included in the KN Repair Kit. An adjustment and lock screw is used on non-tamper resistance models. A steel cap is installed over the adjustment screw for tamper resistant models. In either case, do not remove the pressure lock screw or steel cap. The pressure setting is factory pre-set and is not adjustable in the field.**

Any maintenance and repair should be performed by trained and experienced service technicians. Proper tools and equipment should be used to prevent injury to the servicing technician and damage to the fuel system or components. Service repairs should always be performed in a safe environment with adequate ventilation. The technician should always wear protective clothing to prevent injury.

## DISASSEMBLY

1. Dismount the KN regulator and remove from its installation.
2. Begin disassembly by removing the six screws (item 10) securing the back cover.
3. Break cover loose by tapping around the edge of the cover using a plastic screwdriver handle.
4. Remove back cover
5. Move diaphragm back to reveal the two screws (item 12) securing the lever pin (item 14) and remove screws.
6. Remove pin, gasket, diaphragm and lever assemblies (items 14, 7, 8, and 6).



## CAUTION

**To minimize personal injury, shut off the fuel supply valve and relieve the fuel system pressure before servicing the fuel system components.**

## REASSEMBLY

1. Inspect and identify the parts of the KN Repair Kit (see illustration on the previous page). Components listed below in the Repair Kit are to be replaced.
2. Wipe both covers clean using safety solvent and a clean shop towel prior to reassembly.
3. Attach pusher pin on diaphragm (item 8) to lever (item 6), ensuring the retaining clip on the lever secures the pin.
4. Place top cover face down and place original spring in position.
5. Slide the pivot pin (item 14) through lever.
6. Mount the lever/diaphragm assembly by placing the pin in slot on back of front cover (along with attached diaphragm) and secure with screws (item 12). **Torque to .9 N•m (8 in. lbs.).** Verify that the spring is properly captured against the lever spring perch.
7. Lay the diaphragm (item 8) flat over back of the front cover, aligning screw holes.
8. Place gasket (item 7) on top of diaphragm and align screw holes.
9. Place back cover (item 9 or accessory item 15 or 16) on top of gasket and diaphragm align "Top" and arrow to outlet on front cover.
10. Align front cover, diaphragm, gasket and back cover screw holes and secure with six screws (item 10). **Torque to 6.8 N•m (60 in. lbs.).**

## TESTING

1. Apply 6 ounces (10.5" in w.c.) of air or gas pressure to inlet side of the regulator.

### WARNING

**Do not exceed the maximum inlet pressure of 8 ounces (13.85" in w.c.). Failure to follow this warning may cause the regulator to leak internally, that may cause serious injury and/or property damage.**

2. Draw a soap bubble across the regulator outlet to verify that no air or gas is flowing through the outlet. If air/gas escapes, the rebuild has failed and the regulator must be replaced.
3. If no gas/air escapes the outlet, use soap and/or a commercial leak detector to inspect the seal around the perimeter of the regulator for leaks. If leaks are found, the regulator must be replaced.
4. If no leaks are found, the regulator can be reinstalled.

### WARNING

**Do not use Teflon tape to seal any LPG fittings. Failure to follow this warning may cause the regulator to leak internally, that may cause serious injury and/or property damage.**

5. Leak check all serviced fuel system fittings.

## KN Repair Kit (IMPCO P/N 039-99) Components

Item	Part Number	Description	Qty	UM
6	039-00-20	Lever & Seat Assembly	1	EA
7	G1-26263	Gasket, Secondary Diaphragm	1	EA
8	039-00-30	Diaphragm, Assy Reg Vmq Mod Kn	1	EA
10	076-00-15	Screw 10-32X5/8 Torx Pan Stlzn	3	EA
12	076-00-08	Screw 4-40X1/4 Torxph Tt Stlzn	2	EA
14	076-00-35	Pivot Pin	1	EA