

**MODEL 98 / CUSTOM
LOW PRESSURE KIT
INSTALLATION
INSTRUCTIONS**

TIPPMANN

PNEUMATICS, INC.

You will need:
1 - Low Pressure Kit
1 - Secondary
Regulator

WARNING: DO NOT field strip or otherwise disassemble this gun while it is pressurized with gas.
Disassembling the receiver while under gas pressure will cause personal injury & /or damage to the gun.
Remove CO² cylinder or CO² cartridge before doing any disassembly.

Step 1 Set up a table with plenty of space to work.
You will need a 1/8" allen wrench, a crescent wrench and a 7/16" wrench.

Disassemble the gun:

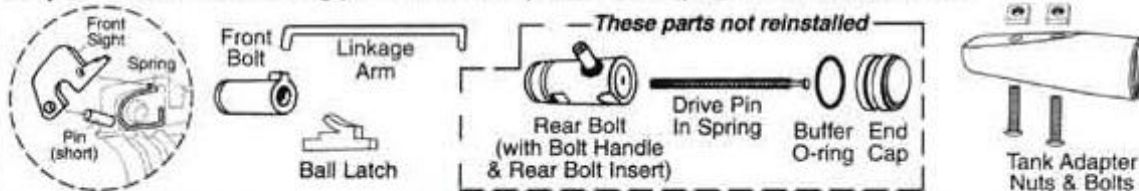
1. Remove CO² Tank & barrel and have gun in uncocked position.
 2. Remove 2 tank adapter screws.
 3. Disconnect gas line from tank adapter.
 4. Remove all 6 receiver bolts holding gun together.
- Note: At reassembly, longest bolt goes in front grip.
5. Separate the two halves of the gun.



Install the optional beaver tail rear bolt guard, after completing the low pressure kit installation.

Beaver tail installs with included longer receiver screw as shown above.

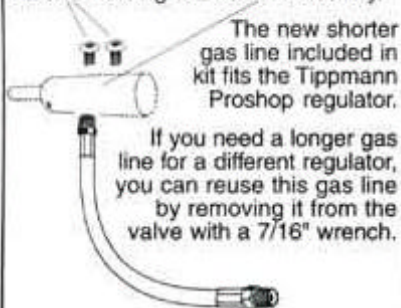
Step 2 Lift out the following parts: Put these parts in a safe place for reinstallation later.



Time Saver:
It is Not necessary to remove trigger parts to install this kit.

Step 3 Remove Valve Assembly

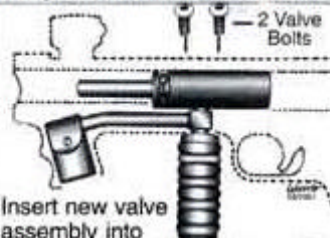
Turn the right half of the gun over and remove the two 1/8" allen screws holding the valve assembly.



The new shorter gas line included in kit fits the Tippmann Proshop regulator.

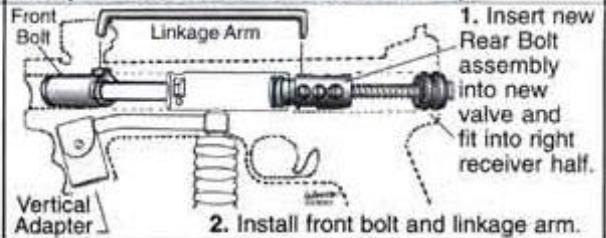
If you need a longer gas line for a different regulator, you can reuse this gas line by removing it from the valve with a 7/16" wrench.

Step 4 Insert Valve Assembly



Insert new valve assembly into right receiver half. Apply small amount of loctite to the valve bolts threads and install (Be careful not to crossthread or over tighten bolts). Wipe off excess loctite.

Step 5 Insert new Rear Bolt Assembly



1. Insert new Rear Bolt assembly into new valve and fit into right receiver half.

2. Install front bolt and linkage arm.

Step 6 Install Bolt Cover

Align cover & screws on exterior of left receiver half. With grommets inside, align and screw cover firmly in place. Don't strip grommets.

Step 7 Put receiver halves back together. Make sure to place remaining internal parts back into the receiver half the way they were when you took the gun apart. Check to make sure the front sight, sight pin & sight spring, ball latch, front bolt, linkage arm and rear sight are in position and trigger parts are in place. Insert two tank adapter nuts into right receiver half and make sure rear bolt buffer o-ring fits flush to end cap. Then fit the left receiver onto right receiver and reattach with 6 receiver bolts.

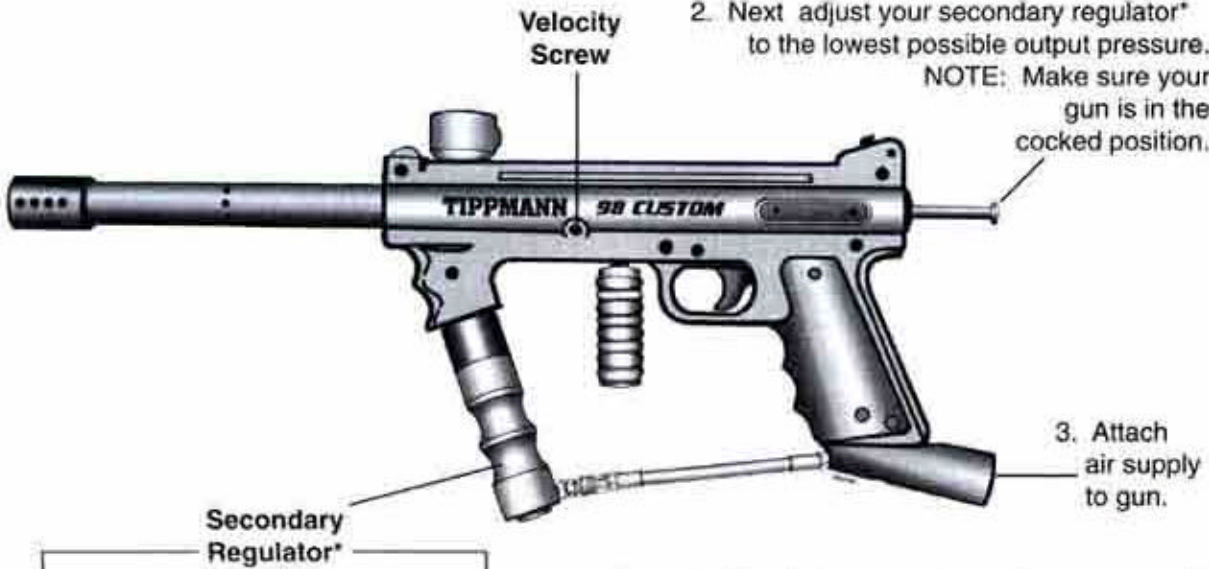
Step 8 Install Regulator, 90 Degree Fitting, Male Quick Connect fitting and Female Quick Connect fitting, Gas Line and Tank Adapter.

1. Screw the Low Pressure Regulator into the vertical adapter. (Be careful not to crossthread).
2. Put loctite on threads of the 90 Degree Fitting and screw into the Regulator. Before loctite sets, lineup gas line connection point towards back of gun grip. Wipe off excess loctite.
3. Put loctite on threads of the Male Quick Connect fitting and screw into the 90 degree fitting. Wipe off excess loctite.
4. Put loctite on threads of one end of new gas line and screw into Female Quick Connect Fitting. Wipe off excess loctite.
5. Put loctite on threads of remaining end of Gas Line and screw into tank adapter. Wipe off excess loctite.
6. Attach tank adapter to gun with 2 tank adapter screws.
7. Connect Female & Male Quick Connect fittings to complete installation.
8. Adjust Regulator as per its instructions.

TUNING YOUR LOW PRESSURE SYSTEM

1. First adjust the velocity screw located on the side of your gun out until it is flush with the receiver.

2. Next adjust your secondary regulator* to the lowest possible output pressure.
NOTE: Make sure your gun is in the cocked position.



3. Attach air supply to gun.

Secondary Regulator*

*For all regulator adjustments, refer to the manual provided with your regulator.

4. Slowly increase air supply pressure until valve seats. (Your gun will leak until the pressure is high enough to seat the valve.)

5. Chrono your gun while adjusting the secondary input pressure. Increase input pressure until 300-310 fps is reached.

6. Finally, set velocity screw to desired velocity.