

7. If the hissing has stopped properly, continue turning the knob ⑦ clockwise until the stop is felt. Breathe on the regulator. It should breathe fairly hard at this setting, but still deliver a good air supply.
8. Check the purge button for proper operation.
9. After setting the poppet screw ③⑦ and orifice ①⑥, the relationship between the diaphragm wear plate and the tip of the lever ③⑥ must be checked. To do this, install the diaphragm and retaining ring. The tip of the lever should just barely touch the diaphragm. If when touching the diaphragm lightly with the finger there seems to be a significant gap between the lever tip and diaphragm, remove the diaphragm and bend the lever slightly upwards using the fingers. If the regulator hisses slightly when the air is turned on, but stops hissing when the diaphragm is removed, then the lever is too high. Use Sherwood's lever bending tool (p/n 4005-16) to bend the lever slightly downward as shown in Photo #5. There are two indentations at the proper lever bend point.



Photo #5

10. Replace the diaphragm and test the gap between the lever and the diaphragm again after each bending. Lever bending is usually necessary only when a new lever is being installed in the regulator. If you are re-using the same major parts of the regulator, this measurement will most likely be correct, and no adjustment will be needed. In fact bending the lever should be avoided unless necessary to get the tip of the lever in the proper position.
11. Replace the cover ①⑦.
12. Return to **Section 5.3.13** of this manual to complete assembly of the regulator.