

Checking the Furnace Gas Pressure

A handout containing the highlights of the video titled *Checking the Gas Pressure*.

Setting up the Oxy-fuel cutting torch

1. With a service wrench remove the plug in the gas valve. Replace it with a barb fitting. This will allow you to hook the gauge up to the system.



CAPTION 1. THE INSTRUCTOR IS REMOVING THE PLUG ON THE GAS VALVE.

2. Connect the water column gauge hose to the barb fitting.



CAPTION 2. THE RUBBER HOSE OF THE WATER COLUMN GAUGE IS FITTED TO THE BARB FITTING PLACED ON THE GAS VALVE.

3. Turn the furnace on. Once the igniter turns on and the gas valve opens, wait for the needle on the gauge to move. Turn the screw on the gas valve to adjust the water pressure to 3 ½ inches of water column. Turning it counter-clockwise decreases the pressure; clockwise increases the pressure.



CAPTION 3. THE NEEDLE ON THE GAUGE MOVED WHEN THE GAS VALVE OPENED. IN THE PHOTO, THE PRESSURE IS AT 3 INCHES OF WATER COLUMN. THE MANUFACTURER'S RATING FOR GAS PRESSURE IS 3 ½ INCHES OF WATER COLUMN.



CAPTION 4. THE INSTRUCTOR TURNS THE SCREW CLOCKWISE TO INCREASE THE WATER COLUMN PRESSURE FROM 3 INCHES TO 3 ½ INCHES.

4. Turn off the furnace. Once it is shut off, you can remove the fitting and return the plug in the gas valve.



CAPTION 5. THE INSTRUCTOR TURNS OFF THE FURNACE AND IS REMOVING THE BARB FITTING FROM THE GAS VALVE.

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