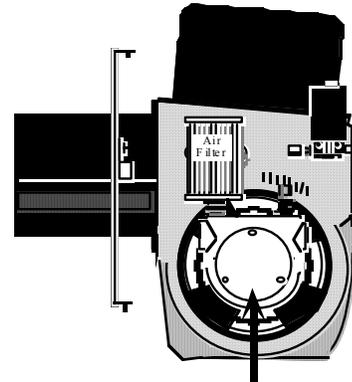




Air Compressor Maintenance

Tools needed: Large Slot Screwdriver or Socket Set, Long Handled Allen Wrenches, Pressure Gauge up to 30 psi, Safety Goggles, Shop Towel, Proper Cleaning Fluid

1. Check air pressure by installing a 0-15 psi pressure gauge in the port marked "Out." You may have to disconnect the PTC preheater and move it to get to the gauge port as shown. If your compressor already has a gauge, you might want to replace it to make sure that it is functioning properly.
2. Start the burner. If gauge reads 8-10 psi, air compressor is fine. Replace the gauge with the 1/4 NPT plug. Vibrations will damage the gauge and cause false readings if the gauge is left on.
3. If you are not getting at least 8 psi, check your compressor coupling to make sure it is not slipping. Unplug the burner. Lift the ignition transformer by removing the screws or sliding the tabs at the front of the transformer. There are two types of couplings. One is a slip-on style and the other is a lock-down type. Check the coupling for signs of melting or slippage.
4. Remove the air compressor cover plate and carbon plate with the proper hex wrench. Spin the blower wheel using a screwdriver. If the compressor rotor does not turn, check the coupling connections to the motor and compressor shafts. If the vanes do not move in the slots as the rotor turns, clean the vanes as described below. If the vanes are cracked or broken, replace them.
5. Clean the vanes and compressor body using GAST cleaning fluid or an equivalent cleaning fluid (see compressor tag). DO NOT USE PETROLEUM SOLVENTS. They will coat the vanes and cause sticking and clogging. Use Aerosol Brake Cleaner.
6. After wiping the vanes clean and reassembling the compressor, disconnect your fuel line to prevent firing. Jump the primary control "T" terminals to start the burner then jump the "F" terminals to keep it running. ALWAYS WEAR SAFETY GOGGLES AND DO NOT BREATHE THE SPRAY AND FUMES. Feed several drops of the cleaning fluid into the compressor inlet and catch the spray at the outlet with a shop towel. Let the compressor run for 3-4 minutes to flush the fluid and impurities from the compressor body. Finally,



Air compressor location

