

# Conversion from Supplied Compressed Air to OnDemand Compressed Air

## Tools you will need:

- 1/4" Nut Driver
- Wire Cutter/Stripper
- 1" Wrench



The first step in switching your burner from Supplied Compressed Air\* to the OnDemand\*\* Air Supply is to open the Burner Controller. To do this you must use a 1/4" Nut Driver (or a small standard screwdriver) and loosen the two screws. **CAUTION: Make sure the power supply to the Burner is turned off!** Slide the burner controller backward until it clears the screws. Once you



have the burner controller opened you will be able to see the terminals that the burner components are wired too. Disconnect the wires going to the Blue "Igniter" terminal, the Orange "Burner Motor" terminal, and the L2 terminals that have neutrals from the

Three-Way Solenoid and the air solenoid.

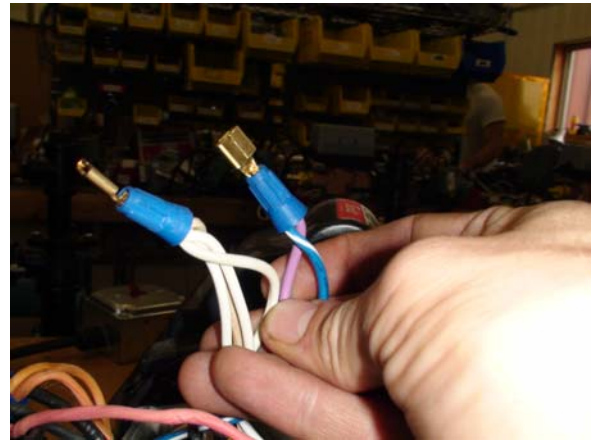
Separate the wires from the three terminals you just disconnected from the Burner Controller by untwisting the connectors. Use the 1" Wrench to loosen the union between the Shop Air Two Stage and the Air Tube. Once the union is loosened you can pull the wires for the Air Solenoid and the Three-Way Solenoid from the Burner Controller box.



\* Supplied Compressed Air: the air supply for the burner comes from an Air Compressor with a tank.

\*\* OnDemand: The air supply for the burner comes from a tank-less Air Compressor, which is powered by the burner.

Now you need to attach the OnDemand Two Stage, it attaches to the same union that Shop Air Two Stage had previously been. Push the wires, one white and one purple, through the Rubber Grommet into the Burner Controller box. Twist the purple wire to the blue wire with the white stripe, twist on the connector and connect to the Blue "Igniter" Terminal. The white wire attaches to one of the L2 terminals. With the wiring completed you can now reattach the Burner Controller. To do this, put the



Burner Controller on top of the box with the front of the controller a half an inch off the front of the box. Slide the controller forward until both screws are showing in their proper positions; use the 1/4" Nut Driver (or a small standard screwdriver) to tighten the screws. Plug the power cord for the Tank-Less Air Compressor into the outlet on the Burner Controller Box

With the new OnDemand Two Stage you have two air bleeders that need to be adjusted in order to obtain the optimum starting psi of 8 and the second stage up around 15 to 20psi. In order to adjust these you may need a standard screw driver and an adjustable wrench. The air bleeder between the solenoid and the gauge is the overall/second stage air, whereas the air bleeder coming off of the solenoid is the first stage air. If this is the first time adjusting the two you will want to close the 1<sup>st</sup> stage air in order to set the overall/second stage. Once you have this set you can lower the first stage air down to about 8psi.

