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Instructions for Manifold with Compressed Air

REQUIRED EQUIPMENT:

A compressed air source that **MUST** be capable of supplying a regulated supply (40 PSI) of **CLEAN, DRY** compressed air. The compressed air can be dried by desiccant or preferably refrigerated air dryer. If moisture or dirt is allowed into the system it can affect check valves, torch adjustment valves and any part of the fuel system in the torch including clogging the fuel jets.

INSTALLATION INSTRUCTIONS:

1. Install the compressed air supply line within 4' of the torch or workspace. Install a shutoff valve for the compressed air close to the workspace. The 4' compressed air hose supplied with torch has a fire jacket that will resist melting from contact of hot materials.
2. Install an inline regulator for accuracy and adjustability. Depending on the model and accessories this may be a quick connect fitting or a NPT (National Pip Thread) fitting on the end of the hose.

* NOTE: The inline regulator may already be installed by GTT.
3. Check that all valves on the torch are closed.
4. Connect the air supply line to the inline regulator.
5. Adjust the inline regulator to 40 PSI or 60 PSI depending on model.
6. A foot pedal can be used to control the air option. If a foot pedal is used, turn the foot pedal on, adjust the air valve to the desired setting and use the pedal to turn the air on and off. This can be used to separately turn the center fire on and off, the outer fire on and off, or turn the air for the entire torch on and off depending on the setup.

INSTRUCTIONS FOR USING THE AIR OPTION:

1. Light the torch according to the instructions included with the torch.
2. Adjust the torch to the desired flame type: neutral, reduction or oxidizing. This is usually done without using the blue valve at this point.
3. Slowly open the air valves for the center, and outer fire(s). This will remove some of the yellow tips on the candles and cool the flame. The exclusive Triple Mix Technology combined with compressed air adds a new dimension to the endless versatility of a GTT torch. The blue valve(s) can now be used to adjust the temperature of the flame by adding some extra oxygen into the flame for finite temperature control. From this point, the options are endless for the combinations of fuel, oxygen, inner oxygen and compressed air.
4. When turning the torch off, close the compressed air valves first, then the valves on the torch.

COMPRESSED AIR SYSTEM WARNINGS:

***ONLY CLEAN, DRY COMPRESSED AIR IS TO BE USED WITH THIS SYSTEM. IF MOISTURE OR DIRT ENTERS THE SYSTEM FROM THE COMPRESSED AIR SUPPLY, IT WILL VOID ALL WARRANTIES.**

***DO NOT REMOVE ANY COMPONENTS FROM THE SYSTEM.**

***PRE-INSTALLED CHECK VALVES ARE REQUIRED FOR SAFETY - DO NOT MODIFY OR REMOVE.**

***COMPRESSED AIR HOSE SUPPLIED WITH THE TORCH IS FIRE RESISTANT - DO NOT REPLACE WITH ANY OTHER TYPE OF HOSE.**

***CLOSE ALL TORCH VALVES AND COMPRESSED AIR SHUTOFF VALVE WHEN NOT IN USE.**

***MAXIMUM AIR PRESSURE MUST NOT EXCEED 100 PSI.**

***CHECK THAT ALL SYSTEM COMPONENTS ARE IN GOOD OPERATING CONDITION BEFORE USING THIS PRODUCT.**

WARNINGS

Never leave the area with the torch running.

Never leave the main tank valves turned on if you leave the area, be sure to relieve pressure off torch.

Always make sure torch base and lines are anchored and secure.

Always be alert for gas and oxygen leaks. Fix them right away no matter how insignificant they may seem.

Have good exhaust ventilation in work area.

Keep flammable objects and lighters away from work table area.

Have non-flammable tabletop and back wall.

Secure gas and oxygen tanks with strap or chain them to wall; never let tanks free standing.

Always have a small container of water by your work area to put hot glass scraps in.

Always use Phillips Safety Eyewear or Didymium Glasses to protect your eyes from glare and flying pieces of glass.

Always keep a fire extinguisher close by in the work area.

Never get any oil or grease on the lines or connections.

Never touch the torch on the barrel or nozzle end while it is running, or for 15 minutes or more after running.

Use hose clamps or other approved connectors on the hose adaptors. Always check for and beware of any leaks and correct them immediately.

Never remove adaptors or any component with filter screens present. Removing filter screens may allow foreign material into the torch potentially damaging valve seats and clog internal components.

Do not strike torch with glass or other hard object. Dents or damage may occur.

Do not subject the torch to excessive heat, flame, kilns, ovens or hand torches.

Do not install premix torches in the same supply hose with any other torch. Flashback can occur and damage the other torches. If a premix torch is installed it **MUST** have flashback arrestors installed on the premix torch hoses *before* the connection to the main supply hose. Flashback arrestors placed at the tank will only protect the tank and regulators, not other torches in the system.

DO NOT REMOVE ANY FACTORY INSTALLED COMPONENTS. FAILURE TO FOLLOW DIRECTIONS AND WARNINGS WILL VOID FACTORY WARRANTY.

**FAILURE TO OBSERVE SAFETY RULES
COULD RESULT IN INJURY OR DEATH.**