



## **Pre-Installation Checklist**

This Pre-Installation Checklist comes from the document "Automated Fire 101" available on our website

The following is a list of the items that should be considered for most automated fire features to ensure successful operation

### **Gas Considerations**

- 1. Gas Volume** – have you installed the correct size pipe based on the distance of the furthest feature and the total gas load of all the gas appliances on that gas line? (See page 2 of Auto Fire 101 for more info)
- 2. Gas Pressure/Type** – what is the gas pressure you are supplying to the features? Are the Automated Fire Features you ordered configured correctly for your gas pressure? Are the Automated Fire Features configured for the proper gas type? (See label on the Electronic Ignition System for gas pressure/type it has been configured for) (See page 2 of Auto Fire 101 for more info)
- 3. Manual Gas Shutoff Valve** – have you installed either a Key Valve or Gas Ball Valve within 6' of the feature? Did you install the correct SIZE valve for the feature it is installed on? (See page 3 of Auto Fire 101 for more info)
- 4. Fire Feature Venting** – For NATURAL GAS features have you planned for ventilation near the TOP of the feature? For PROPANE features have you planned for venting at the very BOTTOM of the feature? (See page 3/4 of Auto Fire 101 for more info)
- 5. Purging of New Gas Line** – have you purged the gas line of BOTH AIR and DEBRIS? (See page 5 of Auto Fire 101 for more info)
- 6. Safety Backup Valve (For PROPANE gas only)** – have you planned for adding a Safety Backup Valve in the gas line feeding all the fire features? (See page 5 of Auto Fire 101 for more info)
- 7. Main Burner Orifice** – did you receive the proper (BRASS) main burner orifice for the gas type and burner you are using? (See page 5 of Auto Fire 101 for more info)

### **Electrical Considerations**

- 1. Wire Gauge** – did you install the correct wire gauge? Recommended Wire is 12 AWG (Solid or Stranded) for all installations
- 2. Power Supply** - do you have the proper power supply?  
For 30 Volt DC systems you need a 30 Volt DC power supply that will provide a minimum of 60 Watts of power for EACH AWEIS it is powering and 45 Watts of power for EACH Tiki Torch it is powering.  
For 24 Volt AC systems you need a 24 Volt AC Transformer that will provide a minimum of 50 Watts of power for EACH AWEIS it is powering and 35 Watts for EACH Tiki Torch it is powering. (See Tables on page 6 of Auto Fire 101 for more info)
- 3. Daisy Chain Wiring** – are you connecting 2 or more fire features on one pair of wire? If so, polarity BETWEEN the features must be the same. (See page 6 of Auto Fire 101 for more info)
- 4. Features Close to the Pool (<5')** - Is the Automated Fire Feature within 5' of a swimming pool or spa?  
If so you must have the following to pass inspection:
  - AWEIS or Tiki Torch requiring the 30 Volt DC Power Source
  - 30 Volt DC Power Supply certified for use near Swimming Pools (only available through us)
  - Gas line must be bonded AT EACH fire feature

### **Fire Bowl Considerations**

- The fire ring / burner in the bowl should be NO CLOSER than 6" from the inside surface of the bowl.
- The holes of the burner should be facing UP or SIDEWAYS. NEVER point the holes DOWN.
- The Pilot Burner should be located at the OUTER edge of the burner. It should NOT be installed in the interior of the burner
- The burner should not be recessed in the bowl any LOWER than 3" from the top of the bowl.  
(See page 8 of Auto Fire 101 for more info)

### **Linear Fire Feature Considerations**

Is the burner in the linear feature longer than 20 feet? If NOT, one burner with one AWEIS with Single Pilot Burner will work  
If burner IS longer than 20 feet multiple burners required. If Natural Gas, one AWEIS with Single Pilot Burner will work. If LP, one AWEIS with Dual Pilot Burners highly recommended. (See page 8 of Auto Fire 101 for more info)

### **Media Considerations**

Are you using media ACCEPTABLE for use in fire features?

- Lava Rock NO LARGER than 3" in diameter
- Fireglass (½" in diameter or larger when AWEIS installed)
- Media made from Refractory Material

### **Drainage Considerations**

For features ABOVE ground level: Have you installed a drain line or provided for the drainage of water in another way?  
For features AT or BELOW ground level: Did you order the "Waterproofed" AWEIS? Did you order a Marine Grade burner?  
(See page 9 of the Auto Fire 101 for more info)