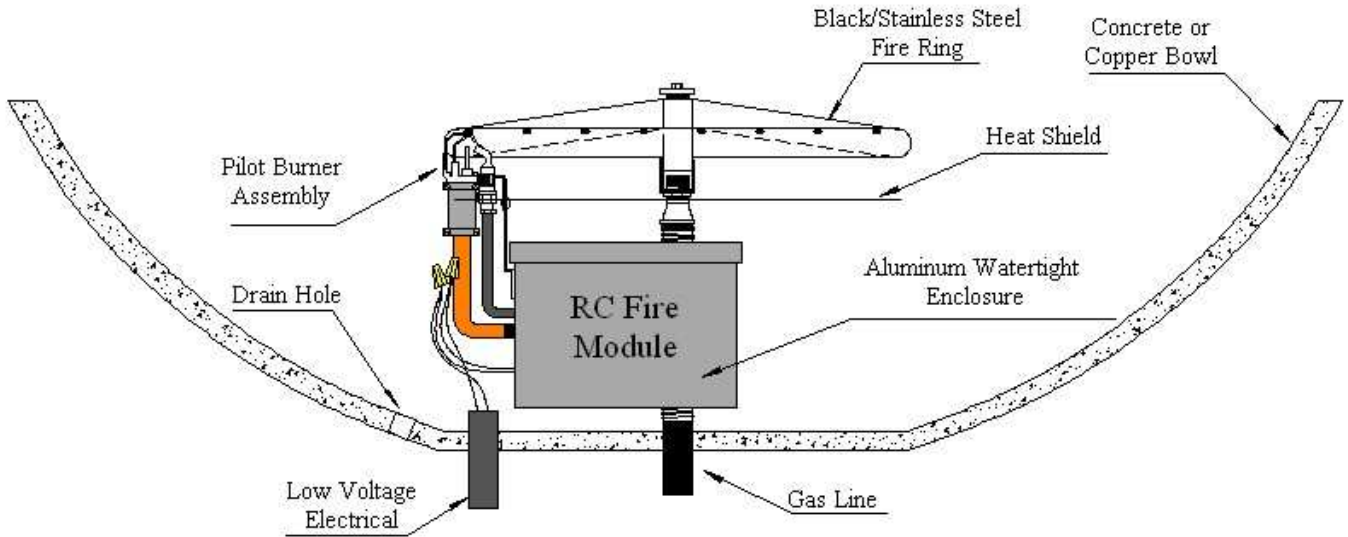


## Remote Control Fire Module (RCM-1)

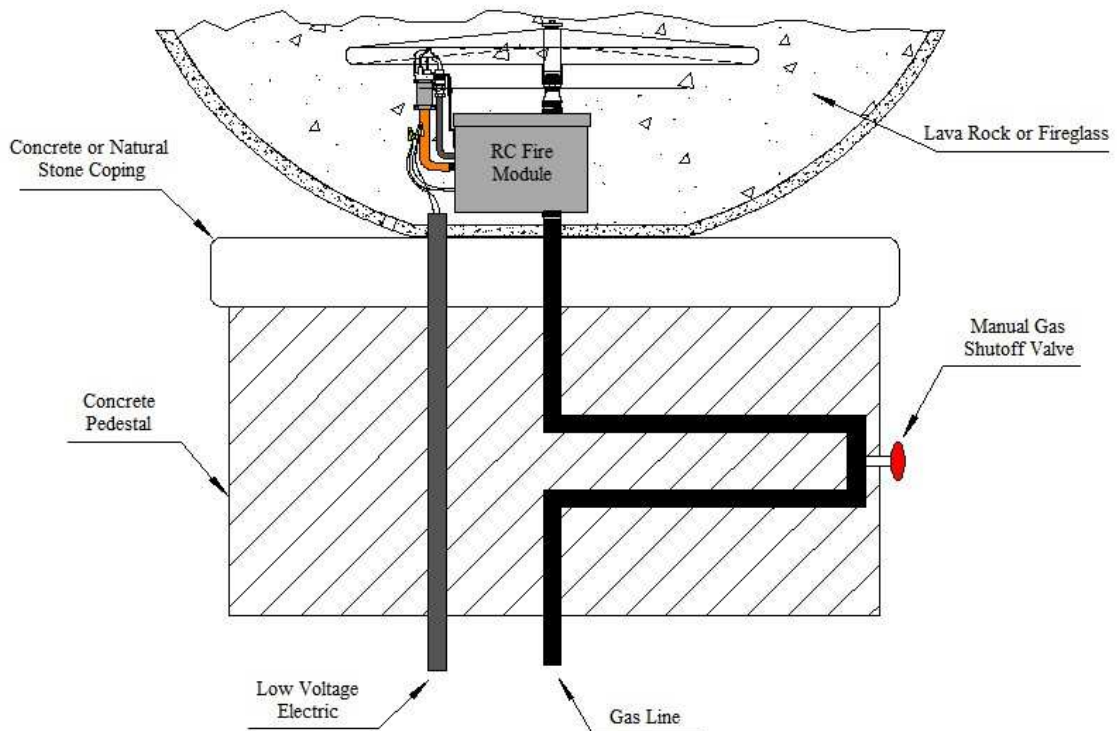
### Product Specifications

Description	1/2 in. NPT x 1/2 in. NPT Intermittent Hot Surface Pilot Ignition standard opening
Flame Sense	Electrode
Type of Gas	Natural or LP
Ignition System Type	Intermittent Hot Surface Pilot Ignition
Ignition Sequence	Intermittent Pilot
Ignition Source	Pilot
Ignition Trials To Lockout	continuous retry
PrePurge	None
Body Pattern	Straight-through
Opening Characteristics (standard, step)	Standard Opening
Ignition Trial Time (sec)	90 sec
Electrical Ratings	24 Vac
Frequency	60 Hz
Frequency	50 Hz
Flame Failure Response Time (sec)	1.6 sec @ 3 $\mu$ A
Ambient Temperature Range (F)	-40 F to +175 F
Ambient Temperature Range (C)	-40 C to +79 C
Pressure Regulator Setting (psi)	3.5 in. wc
Pressure Regulator Setting (kPa)	0.87 kPa
Pressure Ratings (psi)	1/2 psi
Pressure Ratings (kPa)	3.45 kPa
Inlet/Outlet Size (in.)	1/2 in. NPT x 1/2 in. NPT
Maximum Capacity (ft <sup>3</sup> /hr)	200 ft <sup>3</sup> /hr
Maximum Capacity (m <sup>3</sup> /hr)	5.7 m <sup>3</sup> /hr
Minimum Capacity (m <sup>3</sup> /hr)	0.6 m <sup>3</sup> /hr
Maximum Capacity at 1 in. P.D. (ft <sup>3</sup> /hr)	150 ft <sup>3</sup> /hr
Maximum Capacity at 1 in. P.D. (m <sup>3</sup> /hr)	20 m <sup>3</sup> /hr
Pilot Gas Outlet	Yes
Typical Ignition Hardware	Q3450
Approvals, American Gas Association IAS	IAS Design Certified: C2030017 ANS Z21.20 Automatic Ignition Systems ANS Z21.35CAN1-6.8, Gas Filters ANS Z21.78 Combination Gas Controls

### Fire Bowl Detail



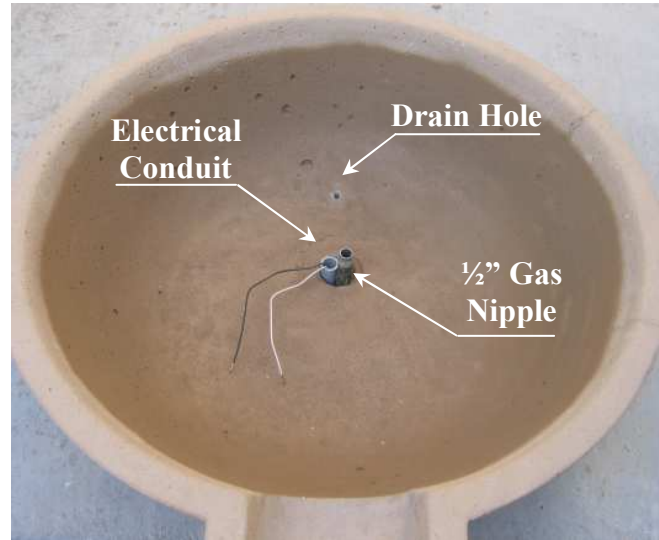
### Overview Low Voltage Electrical/Gas Rough In



## Installation Procedures

### Rough In Requirements

1. Gas Pressure: ½ psi (14" W.C.) maximum.
2. Electrical Conduit with (2) wires for low voltage power (14 gauge wire for wire runs < 100', 12 gauge wire for wire runs > 100').
3. **Drain Hole in Bowl.** You need either (1) drain hole ½" in diameter or (2) drain holes ¼" in diameter. Without proper drainage the bowl could fill up with water and damage the Remote Control Module.



### Install Remote Control Module

1. Apply pipe compound suitable for natural or propane gas to ½" nipple in bottom of bowl.
2. Thread Remote Control Module onto pipe nipple by turning clockwise until tight.



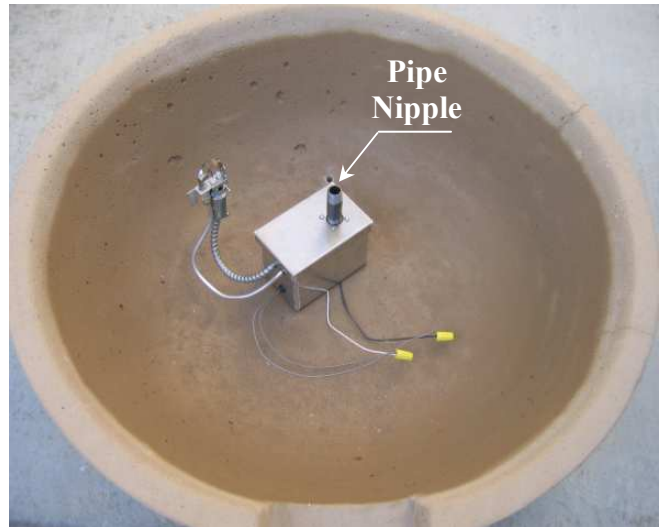
### Make Electrical Connections

1. Connect the wires from the Remote Control Module to the two low voltage wires coming from the conduit (polarity does not matter) and secure using the wire nuts provided.



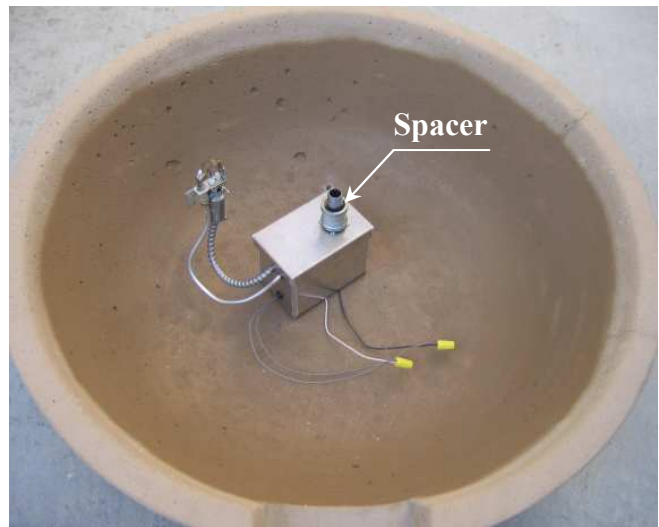
### **Install of Pipe Nipple into RC Module**

1. The length of the pipe nipple that threads into the top of the Remote Control Module is determined by the desired height for the fire ring in the bowl. This is a decision specific to each fire feature which is why one was not included in your kit.
2. Apply pipe compound suitable for gas to the pipe nipple and install in the top of the Remote Control Module until tight.



### **Install Spacer**

1. Install the spacer that came in your kit by simply sliding it over the pipe nipple installed in the previous step.



### **Install Heat Shield**

1. Install the heat shield that came in your kit by simply sliding the center hole over the 1/2" pipe nipple in the top of the Remote Control Module.



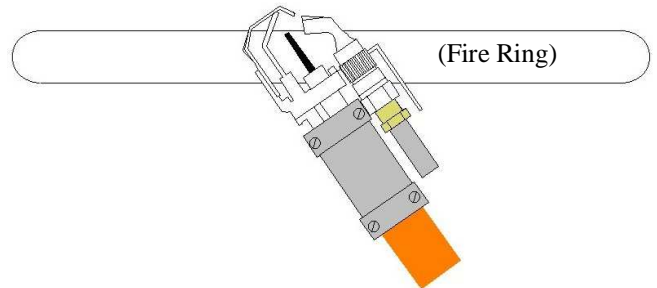
## Install Fire Ring

1. Install Fire Ring (HOLES FACING UPWARD) and position Pilot Burner Assembly as explained in detail on Page 2 of this Instruction Manual.
2. Add filler and topping material to your fire feature as desired following the “Recommended List” of filler/topping materials below.



## Positioning of Pilot Burner

1. Gently maneuver the Pilot Burner (so as not to kink the silver pilot tubing) so that it is at a slight angle and level with the fire ring /burner bar as shown in the drawing at right.



## Fire Feature Filler/Topping Material

These are the recommended filler materials you can use to fill up air space that is **AT LEAST 2” BELOW** the fire ring:

1. Gravel or Large Rocks
2. Landscape Lava Rock

These are the recommended filler/topping materials **WITHIN 2” BELOW OR ABOVE** the fire ring:

1. Lava Rock
2. Fireglass

**CAUTION:** Do not use River Rock or any other stone other than lava rock within 2” below the fire ring or as a topping material. Rock or stone other than lava rock will ‘explode’ when subjected to heat.

## Electrical Connections

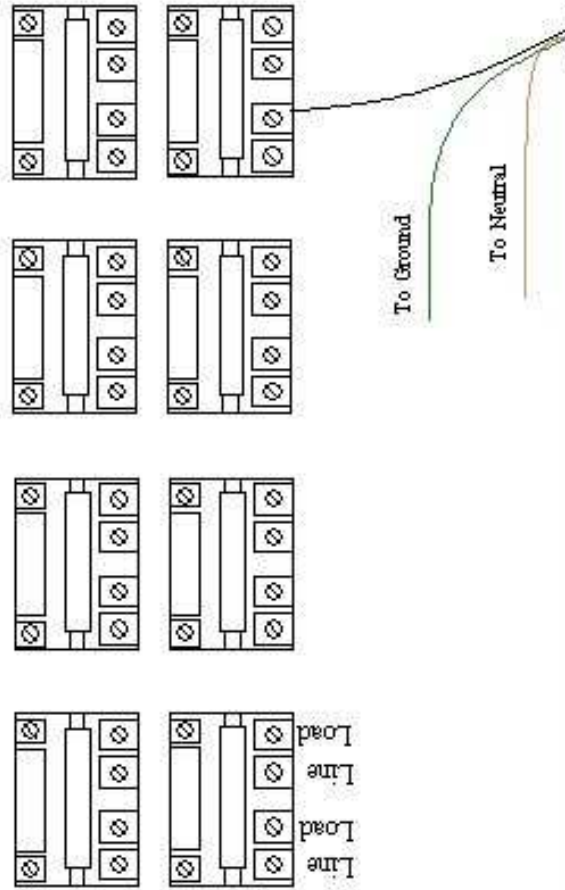
One dedicated 24 volt/75 VA transformer is required to power one RC Fire Module. It is recommended you have one dedicated wire run (2 wires) from each transformer to each fire feature. Daisy chaining of the wire can be accomplished if you use a minimum of 12 gauge wire to prevent voltage drop. When daisy chaining the wire from the transformers to the first fire feature and then on to the remaining features, you must wire the transformers in parallel with one another to the wire leading to the fire features.

# Attachment 1

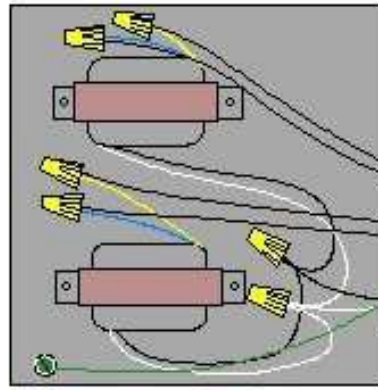
## Automated Pool Controller Wiring

**Wiring When  
2 Fire Features  
Turned On & Off  
with One Button**

**Automated Pool Controller**  
(Aqualink, Pentair Intellitouch, etc.)



**J-Box with 24v Transformers  
(One Transformer Needed  
For Each Fire Feature)**



**Black/White  
Wires  
110 v Side**

**Blue/Yellow  
Wires  
24v Side**

\* At right 2 conduit are shown, one to each fire feature. It is possible to daisy chain the conduit and wire run. This would make it possible to run one conduit to the 2 fire features and then link the fire features with conduit.