CAM-STAT

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PR-24 PR-120
SOLID STATE PILOT REIGNITERS

U.S. Patent 3,813,481

DESCRIPTION

The Cam-Stat Pilot Reigniter module is used to prevent a gas pilot from becoming extinguished. If the pilot flame goes out the PR-24/120 electronic module begins sparking within .8 second and will immediately relight the pilot. Sparking stops as soon as the pilot flame is reestablished. It's automatic and instant relighting capability assures trouble free operation of heating equipment especially with remotely located and hard to reach pilots. PR-24/120 Igniter's a r e used on continuous, pilot applications. The Pilot Re-igniters can be ordered separately, or as a complete package which includes a PR-24/120 Module, electrode assembly, igniter cable and mounting strap.

NOTE:
The output hi-voltage connector on the electronic module maybe a nail terminal or a ¼" male quick connect terminal.

The included high voltage cable assembly has a ¼" female quick connect or nail terminal installed for connection to the electronic module hi-voltage connector.

MODEL NUMBER	POWER INPUT	DESCRIPTION
PR-24-36W	24 VAC	Includes hardware kit, spark cable, and PR-24 Module
PR-120-36W	120 VAC	Includes hardware kit, spark cable, and PR-120 Module
PR-24-00	24 VAC	PR-24 Module only
PR-120-00	120 VAC	PR-120 Module only

SPECIFICATIONS:

Power Input: 24VAC/120VAC 60Hz
Current Drain: 75 Milliamperes Maximum (Sparking)
Ambient Temp: -40 deg to 175 deg F

ELECTRODE ASSEMBLY

High Voltage Lead: 24 in. length.

Recommended Spark Gap: 1/8 (.125) in Max.
7/64 (.110) in. Min.

Spark Frequency: 300 to 500 per minute at 24 VAC

Tested for use with Natural and LP Gasses.

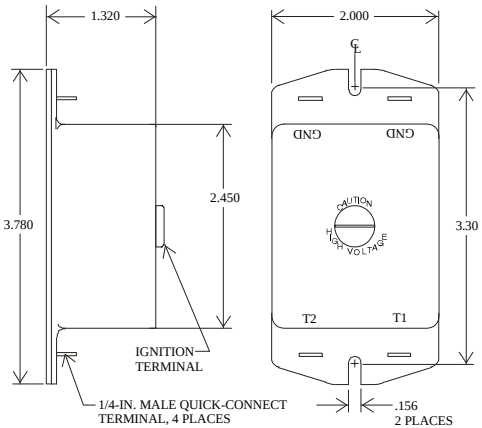


Fig. 4
WIRING DIAGRAM- PR-24

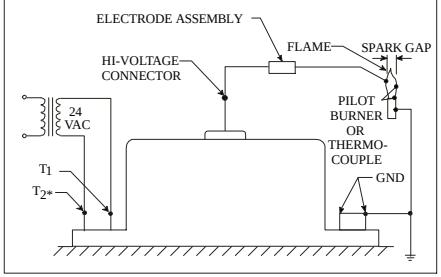
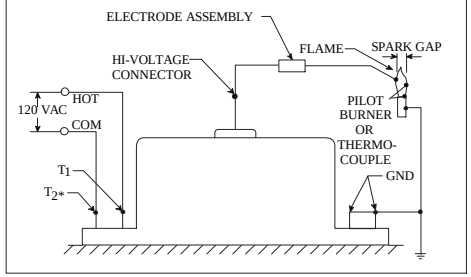


Fig. 3
WIRING DIAGRAM- PR-120



Ground is common toT2 terminal.

CAUTION: WHEN REPLACING SPARK IGNITERS BE SURE TO CHECK SPARK GAP & ADJUST TO PROPER DIMENSION IF NECESSARY.

CONTROL UNIT INSTALLATION

CAUTION

Leave power input leads disconnected during installation. PR-120 MODELS ONLY. To avoid damaging unit when connecting 120 VAC input to terminals, be sure T1 is connected to HOT side and T2 to COMMON (See Fig. 3 Wiring Diagram). When using wall plugs, use polarized type only.

Install the control unit inside or outside the control compartment of the heating equipment within the reach of the available or supplied electrode wire length. Make sure the ground terminal of the control unit is connected with the metal frame of the heating equipment (See Wiring Diagram), using mounting screw in contact with the grounding strip. Any number of units can be installed from a single transformer supply provided transformer VA rating is not exceeded.

ELECTRODE ASSEMBLY INSTALLATION

Securely fasten electrode assembly to pilot burner or thermocouple by means of a suitable bracket (See Fig. 1). Position the assembly so that the tip of the electrode is within flame area and 7/64 (.110) to 1/8 (.125) inch from the pilot burner or thermocouple. This distance is called the "spark gap". Also, make sure that spark gap is within the center of a burning pilot flame. Optimum performance of the Pilot Reigniter depends largely upon suitable positioning of the electrode tip.

Connect quick connect terminal or nail of high voltage cable to the ¼" terminal on top of the control unit (See Fig. 2)

Install supplied rubber insulating boots securely over both the high voltage connector and electrode quick connect terminals after connections are made. Do not allow high voltage ignition wire to touch or lay on any metal surface. Ignition wire should be suspended in air by a suitable insulating standoff.

OPERATIONAL CHECK PROCEDURES

1. Manually shut off the gas supply valve.
2. Apply input power to control unit to check that sparking will occur.
3. Open the pilot gas supply valve. Pilot flame should light.
4. When the pilot flame is established, the sparking will cease. If sparking does not stop, check:
   a. electrode tip must be within the flame,
   b. pilot burner must be grounded to appliance.
5. Turn off the pilot gas supply. Sparking should reoccur. Repeat to see that the system works properly.

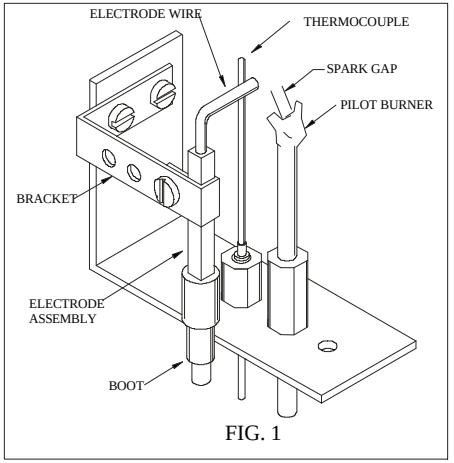


FIG. 1

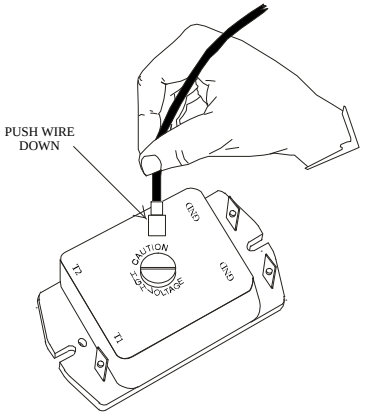


FIG. 2

MADE IN U.S.A.