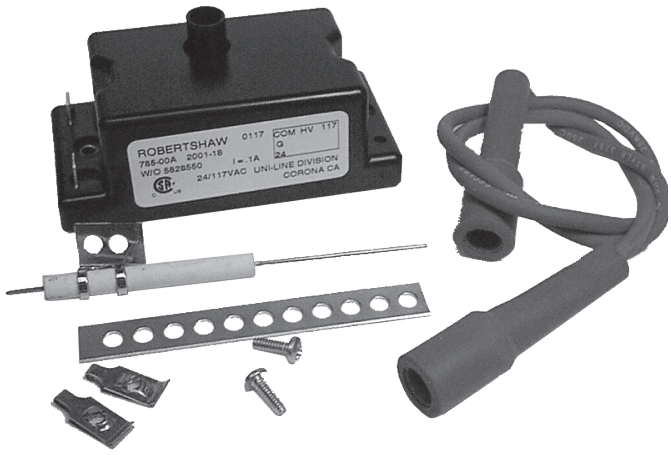
INSTALLATION DATA
785 SERIES AUTOMATIC PILOT RELIGHT KITS-24/120V AC MODELS

The Robertshaw® 785 Series Automatic Pilot Relight Kits are designed for use on rooftop heating equipment, water heaters, boilers, space heaters, unit heaters, dryers, and other commercial, industrial, and residential appliances where the problem of pilot outage may occur. Whenever there is a pilot outage the ignitor/sensor detects the loss of flame and begins sparking within 0.8 seconds and the unit continues to spark until the pilot relights or the input power is turned off.



SPECIFICATIONS

Electrical Ratings ..... 24/117V AC, .1 amp
High Voltage Output.....15 KV minimum
Ambient Temperature .....-40 - 185°F
Spark Gap ..... 1/8”

CAUTION

This device should be installed by a qualified technician on equipment that is equipped with some type of pilot safety control which will shut off all gas if the pilot is not relit. This should be done with due regard for safety as an improper installation could result in a hazardous condition.

INSTALLATION INSTRUCTIONS

Turn off gas and electrical power to equipment before servicing.

1. MODULE INSTALLATION

   Install the module near the pilot in a location where ambient temperatures will not exceed 175°F. Make sure the module is mounted securely using at least one of the grounded mounting holes. Make a continuity check between the grounded mounting hole and the mounting surface.

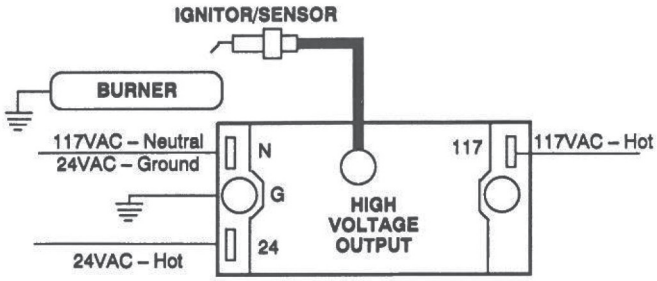
2. IGNITOR/SENSOR ASSEMBLY

A. Attach ignitor/sensor assembly to pilot using the strap bracket provided. (NOTE: The pilot should also be grounded.)

B. Position the assembly so the tip of the ignitor is directly in the flame of the pilot, approximately 5/32” from the hood of the pilot. Make sure the ceramic part of the ignitor/ sensor assembly is not in the pilot or main burner flame.

3. Connect the high voltage lead wire between the spark module and the ignitor/sensor assembly. (NOTE: The 1/4” spade connector goes to the spark module.)

4. WIRING DIAGRAM



5. SYSTEM CHECKOUT PROCEDURE

A. Be sure all gas is shut off.

B. Apply power to the spark module and observe spark.

C. Open the pilot valve. Pilot should light.

   (If pilot does not light, turn off gas and power, adjust ignitor and repeat steps A, B, and C.)

D. When the pilot flame is established the sparking should stop. (If ignitor does not stop sparking turn off gas and power, check ground at the module and the pilot. Make sure the sensor is in the pilot flame. Repeat steps A, B, and C.)

E. Turn the pilot gas supply on and off several times to insure that the system is working properly.

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