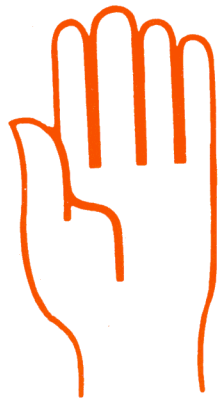


FORM 6954

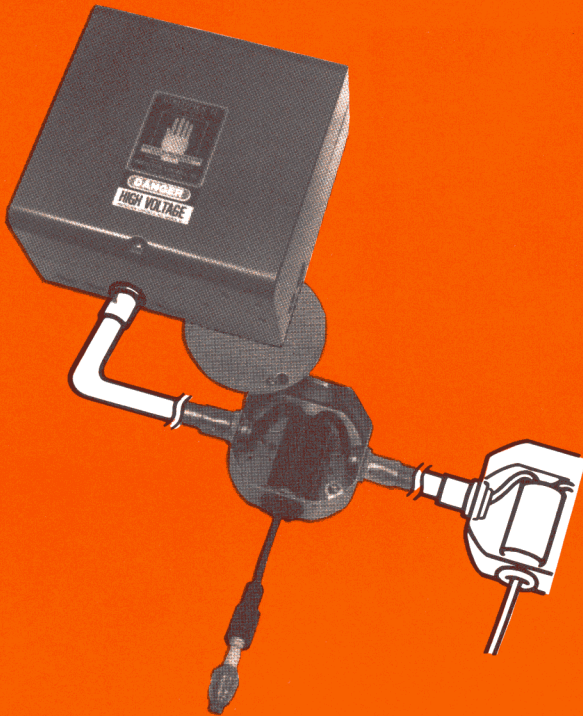


# IGNITIFIER II

## SOLID-STATE MULTIPLE IGNITION SYSTEM

**Features One-Wire Distribution**

- All Electric
- Instantaneous
- Dependable
- Low Primary Current for many burners
- No need for special high current switches, contactors or power supply



One single compact unit ignites up to 30 (or more) spark ignited gas burners all at the same time and instantaneously.

**No mechanical action.** No need for multiplicity of complex high voltage wiring; requires only single wire service to electrical box or similar connections. For ovens, furnaces, boilers, etc.

**IGNITIFIER II** ignition system consists of a specially designed ignition transformer in a dust-tight, hinged enclosure with high voltage interlock and fuse. Ignitor Module, one for each burner, is supplied with three connectors per Module. Each Module is to be installed in standard outlet box.

Compare the exclusive features of **IGNITIFIER II** with rotary and other mechanical systems:

- *Solid-state dependability, compactness*
- *Can be installed for continuous operation*
- *No moving parts, no mechanical wear*
- *Instant, simultaneous sparking at all points*
- *Ignites unbalanced mixtures more effectively*
- *Saves on equipment, installation time*
- *Less space, less wiring, less conduit*
- *Maintenance practically eliminated*
- *Simple, quality components*

### SPECIFICATIONS

**Power:** 115V. 50/60Hz. — 7 AMPS. with 30 burners and 300 ft. of conduit.

Transformer output: 5.5 KV. R.M.S.

Spark output at Module: 10 Millijoules per spark

**Enclosure:** 10½" W., 10" H., 7" D. oven-baked precaution blue finish

**Weight:** 34 lbs.

**Ignitor Module:** Special molded one-piece high voltage epoxy encapsulation—fits easily into 4" octagon box



**PROTECTION CONTROLS, INC.**

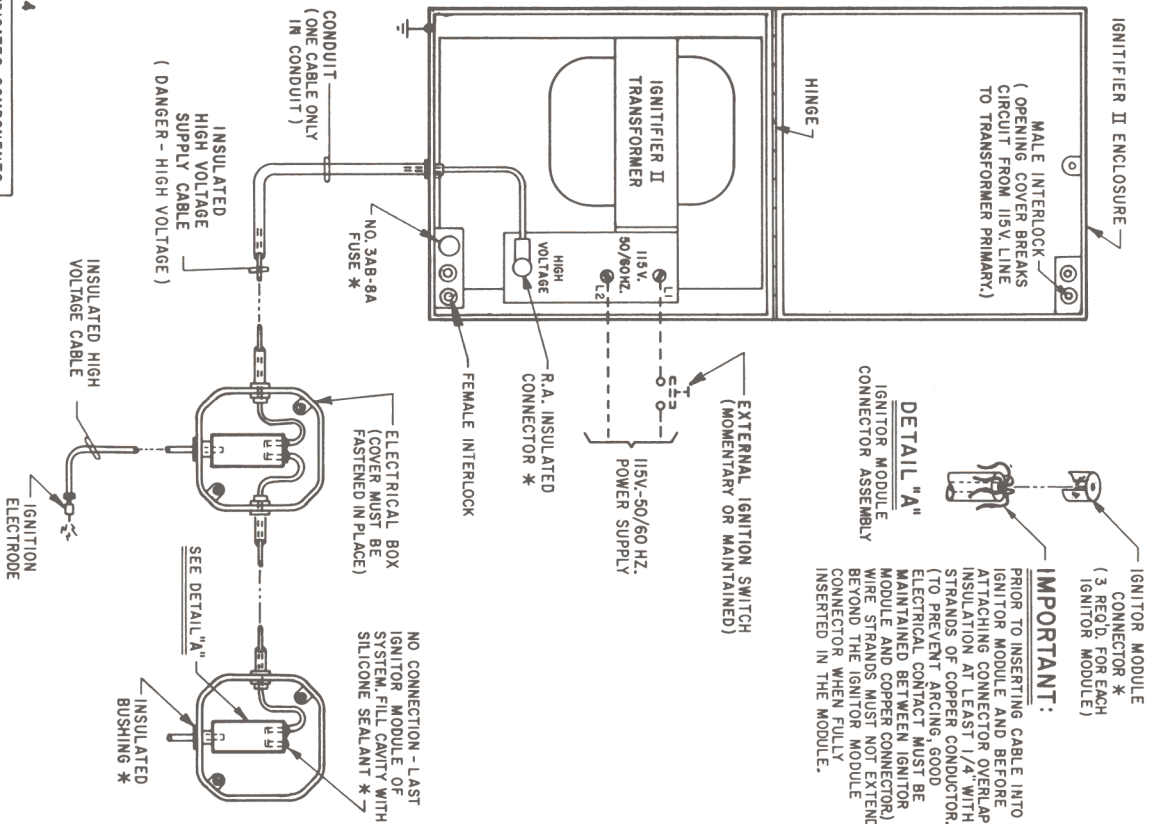
Power Equipment Company

Manufacturers Representative

2011 Williamsburg Rd. Richmond, VA 23231

(804) 236-3800 Fax (804) 236-3882

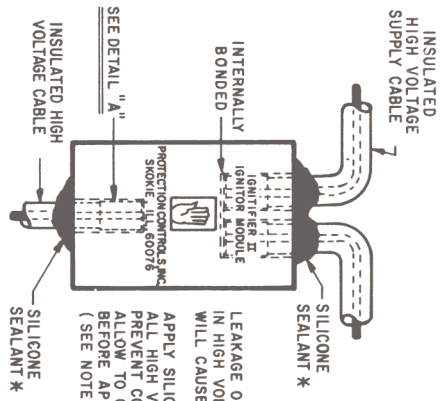
# FORM 6954 IGNITIFIER II INSTALLATION INSTRUCTIONS



IGNITOR MODULE CONNECTOR \* (3 RECD. FOR EACH IGNITOR MODULE)

**IMPORTANT:**  
PRIOR TO INSERTING CABLE INTO IGNITOR MODULE AND BEFORE ATTACHING CONNECTOR OVERLAP INSULATION AT LEAST 1/4" WITH STRANDS OF COPPER CONDUCTOR. (TO PREVENT ARCING, GOOD ELECTRICAL CONTACT MUST BE MAINTAINED BETWEEN IGNITOR MODULE AND COPPER CONNECTOR) WIRE STRANDS MUST NOT EXTEND BEYOND THE IGNITOR MODULE CONNECTOR WHEN FULLY INSERTED IN THE MODULE.

**DETAIL "A"**  
IGNITOR MODULE CONNECTOR ASSEMBLY



(ALL LEADS MUST BE PRIMED WHERE SILICONE SEALANT IS TO BE APPLIED)

LEAKAGE OR ARCING TO GROUND IN HIGH VOLTAGE SUPPLY CABLE WILL CAUSE FUSE BURN-OUT.

APPLY SILICONE SEALANT AROUND ALL HIGH VOLTAGE CABLES TO PREVENT CORONA AND/OR LEAKAGE. ALLOW TO CURE FOR 24 HOURS BEFORE APPLYING POWER. (SEE NOTE NO. 7)

**DETAIL "B"**  
IGNITOR MODULE (1 RECD. FOR EACH IGN. POINT)

**NOTES:**

- 1 - VOLTAGE AND/OR CURRENT OF IGNITIFIER II POWER SUPPLY MAY EXCEED THAT OF THE CUSTOMARY IGNITION TRANSFORMER AND CAN BE DANGEROUS. POWER MUST BE OFF BEFORE ANY SERVICING.
- 2 - MAXIMUM INSTALLATION IS 30 UNITS WITH TOTAL CONDUIT SYSTEM NOT EXCEEDING 300 FEET.
- 3 - CONDUIT, FITTINGS, BOXES AND IGNITIFIER II MUST BE COMMONLY BONDED TO SYSTEM GROUND.
- 4 - IT IS RECOMMENDED THAT THE SPARK GAP AT EACH IGNITION POINT NOT EXCEED 1/8".
- 5 - AMBIENT TEMPERATURE AT IGNITIFIER II POWER SOURCE ENCLOSURE AND IGNITOR MODULE MUST NOT EXCEED 60°C.
- 6 - IN SECTIONS WHERE RADIATION MAY EXCEED 90°C. SPECIAL HIGH TEMPERATURE SILICONE COVERED HIGH VOLTAGE CABLE (NOT GLASS COVERED) SHOULD BE INSTALLED.
- 7 - IGNITION WIRES MUST BE PRIMED WITH PRIMER\* AND ALLOWED TO DRY FOR ONE HOUR BEFORE APPLYING SILICONE SEALANT.\*
- 8 - DO NOT USE SUPPRESSION WIRE OR SUPPRESSION IGNITION ELECTRODES.
- 9 - USE STANDARD OR HIGH TEMPERATURE 7MM 20,000V. IGNITION CABLE.
- 10 - STANDARD OR HIGH TEMPERATURE IGNITION CABLE IS AVAILABLE FROM P. C. INC.
- 11 - IGNITION SYSTEMS SHALL NOT BE USED IN LIEU OF COMBUSTION SAFEGUARDS.

**X-324**  
\* INDICATES COMPONENTS SUPPLIED WITH IGNITIFIER II

**PROTECTION CONTROLS, INC. SKOKIE, ILL.**

**INSTALLATION, OPERATION AND MAINTENANCE SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION STANDARDS, NATIONAL AND LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION.**