

FORM 6954

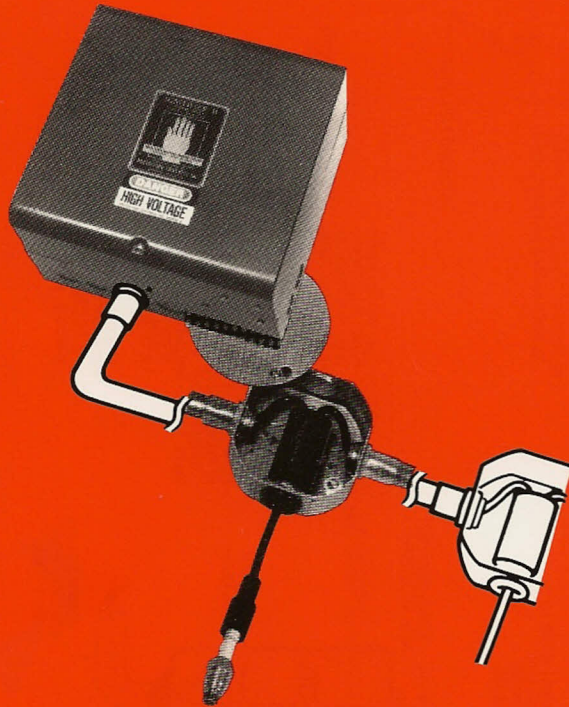


# IGNITIFIER II

## 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.

**SEE PRICE BULLETIN IGN SS**

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

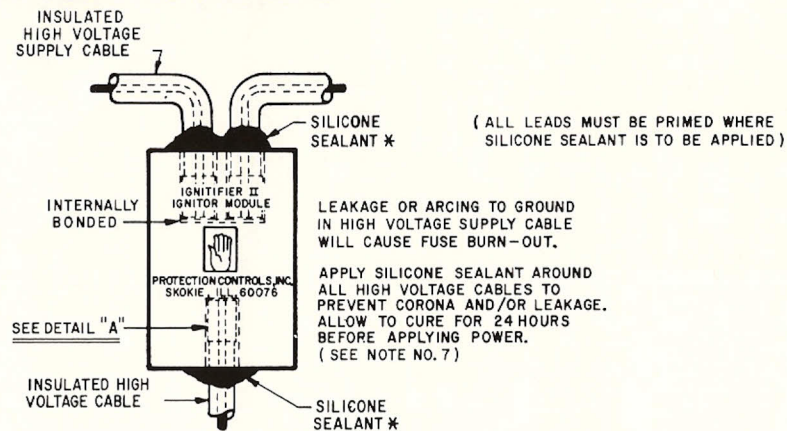
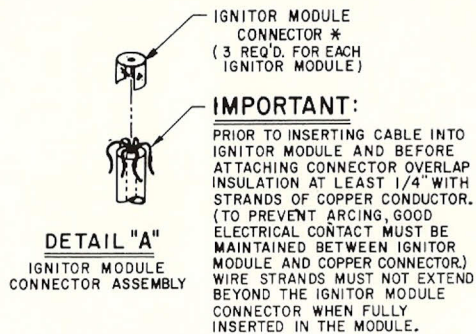
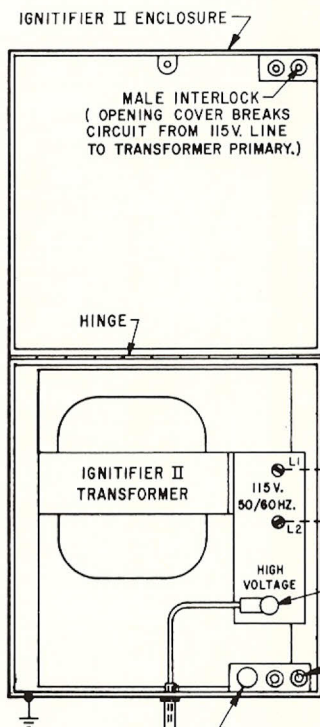


**PROTECTION CONTROLS, INC.**

ELECTRICAL SAFETY EQUIPMENT

7317 N. LAWNSDALE AVENUE  
P.O. BOX 287 • SKOKIE, ILLINOIS 60076-0287  
(847) 674-7676 • CHICAGO PHONE: (773) 763-3110  
FAX: (847) 674-7009

# FORM 6954 IGNITIFIER II INSTALLATION INSTRUCTIONS



**DETAIL "B"**  
IGNITOR MODULE  
(1 REQ'D. FOR EACH IGN. POINT)

**NOTES:**

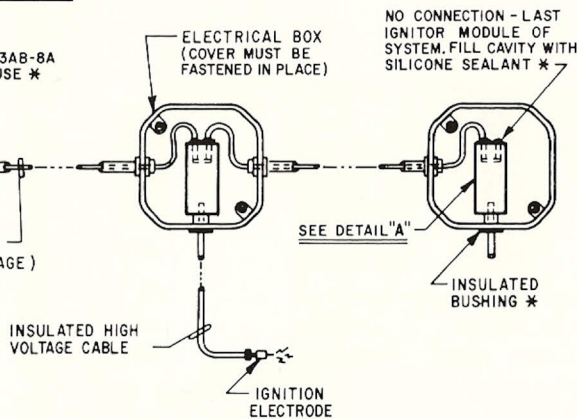
- 1 - VOLTAGE AND/OR CURRENT OF IGNITIFIER II POWER SUPPLY MAY EXCEED THAT OF THE CUSTOMARY IGNITION TRANSFORMER AND CAN BE DANGEROUS. POWER MUST BE OFF BEFORE ANY SERVICING.
- 2 - MAXIMUM INSTALLATION IS 30 UNITS WITH TOTAL CONDUIT SYSTEM NOT EXCEEDING 300 FEET.
- 3 - CONDUIT, FITTINGS, BOXES AND IGNITIFIER 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.

**IGNITION SYSTEMS SHALL NOT BE USED IN LIEU OF COMBUSTION SAFEGUARDS.**

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

CONDUIT  
(ONE CABLE ONLY  
IN CONDUIT)

INSULATED  
HIGH VOLTAGE  
SUPPLY CABLE  
( DANGER - HIGH VOLTAGE )



INSULATED HIGH  
VOLTAGE CABLE

IGNITION  
ELECTRODE

X-324

\* - INDICATES COMPONENTS  
SUPPLIED WITH  
IGNITIFIER II

PROTECTION CONTROLS, INC. SKOKIE, ILL.