

Single Burner Supervision, Manual Pushbutton Ignition, Plug-in SS100A FLAME -PAK, Plug-in Control Relays

Power on PROTECTOFIER terminals L1 and L2 provides power to electronic network.

Terminal L1 must be powered before terminal 12.

Power on PROTECTOFIER terminal 12 (thru permissive safety limits circuit) permits manual pushbutton ignition.

- 1. Press and hold "START" pilot pushbutton.
 - a. "ACF" CHECK relay "C" is energized thru N.C. contact of "ACF" FLAME relay "F".
 - b. Ignition transformer is energized thru contact of "START" button (from PROTECTOFIER terminal 4) to provide spark ignition to the pilot.
 - c. Pilot solenoid valve is energized to open (from PROTECTOFIER terminal 4).
- 2. With pilot flame established "ACF" FLAME relay "F" is energized.
 - a. FLAME relay "F" contacts transfer.
 - 1) N.C. "F" contact in safe-start checking circuit opens.
 - 2) N.O. "F" contact between terminal 12 and terminal 13 closes providing holding circuit around "START" pilot push-button contact.

- N.O. "F" contact in main valve circuit closes to energize main valve (thru N.O. CHECK relay "C" contact). Neon indicator light on PROTECTOFIER chassis will glow to indicate flame is established.
 - 3. Release "START" button. Ignition transformer is de-energized.

Flame failure during operation de-energizes fuel valves.

Power interruption to PROTECTOFIER terminal 12 de-energizes relays and fuel valves.

Failure of Check Relay "C" to prove safe-start check will prevent energizing fuel valves and ignition system.



Power Equipment Company Manufacturers Representative 2011 Williamsburg Rd. Richmond, VA 23231 (804) 236-3800 Fax (804) 236-3882 INSTALLATION, OPERATION AND MAINTE-NANCE SHALL CONFORM WITH NATIONAL FIRE PROTECTION ASSOCIATION STAND-ARDS, NATIONAL AND LOCAL CODES, AND AUTHORITIES HAVING JURISDICTION. ANY MODIFICATION VOIDS APPROVALS.

PROTECTOFIER

MANUAL OPERATION

SS100A FLAME PAK

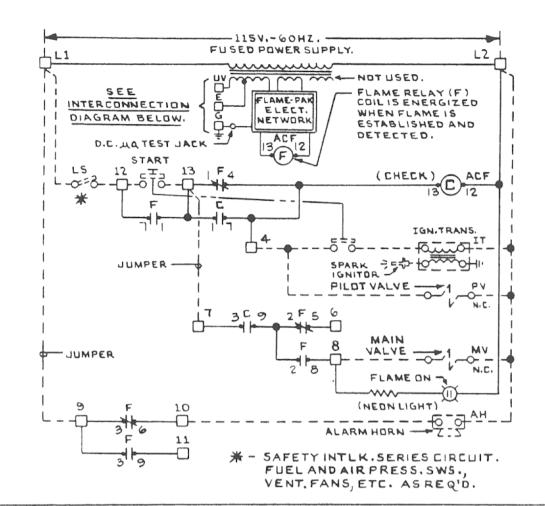
C-CHECK RELAY ACF F-FLAME RELAY

SINGLE BURNER PROTECTOFIER (FORM 6642 VA GROUP M2101.)

5 3 NO CONNECTION.

---- INTERNAL WIRING. --- EXTERNAL WIRING.

WIRING DIAGRAM



ALARM

HORN

0 2

0

- IGN. CABLE

0 N.C.

-W-

-000-

AH

IT

MV 1~0

N.C.

