



PeerlessBoilers.com

INSTRUCTIONS FOR OPERATION AND SERVICE

HSP-1 SYSTEM W/H-S8610M 100% LOCK-OUT IGNITION CONTROL

PEERLESS ATMOSPHERIC GAS BOILERS

HANG THESE INSTRUCTIONS IN THE VICINITY OF THE BOILER AND MAINTAIN IN LEGIBLE CONDITION.

IN THE EVENT THE BOILER HAS BEEN SHUT DOWN FOR A PROLONGED PERIOD, SUCH AS THE SUMMER MONTHS, REFER TO THE "CARE AND OPERATION OF PEERLESS BOILERS" INSTRUCTIONS UNDER "STARTING THE BOILER AT BEGINNING OF HEATING SEASON," BEFORE STARTING OPERATION.

ANNUAL INSPECTION

1. This boiler should be inspected annually by a qualified service agency.
2. Remove vent pipe, draft hood and flue collector annually and thoroughly inspect boiler flue ways. Inspect draft hood and flue collector for corrosion.
3. Pilot burners must be checked at the beginning of each heating season for proper operation.

TO START OPERATION

1. Open main electric power disconnect switch.
2. Close main manual shut-off gas valve(s) and pilot cock. Wait five (5) minutes, to allow for atmospheric venting of boiler, before proceeding further.
3. Open pilot cock and manually ignite thermally supervised auxiliary safety pilot(s) when furnished. Start from right side, lighting each pilot by pressing the button in a thermo-pilot valve until the valve stays open, after pilot ignites.
4. Open main manual shut-off gas valves.
5. Close main electric power disconnect switch and set all safety inter-locks with contacts closed.
6. With operating control set to desired temperature or pressure for system operation, pilot gas valve opens, the ignition circuit is energized and pilot is ignited.
7. When pilot is proven through the ignition controls electronic network, the main automatic gas valve and safety valve open, the ignition circuit is de-energized and the main burners are ignited.
8. When the operating control is satisfied, the main, safety and pilot gas valves close and remain closed until the next call for heat.

TO STOP

1. Open main electric power disconnect switch. System is de-energized and the main, safety and pilot valves close.
2. Close main manual shut-off valves and pilot cock.

PILOT FLAME FAILURE

1. Circuit to main and safety valves is de-energized. Valves will close within one (1) second.
2. Honeywell S8610M ignition control will lockout within fifteen (15) seconds and de-energize the pilot valve and ignition circuit. After a nominal six (6) minute purge time has expired a new trial for ignition is attempted.
3. If auxiliary pilots were extinguished at the time the spark ignited pilot extinguished, it will be necessary to follow steps 1 through 8 under "TO START."

CHECK OPERATION

1. Allow boiler to rise in temperature or pressure and check all safety controls to be certain that they are properly wired to shut off the main automatic gas valve. Inspect safety controls periodically to assure safe operation.
2. Check gas tightness of main automatic gas valve when closed to be certain there is no gas leakage to the main burners. Inspect all joints periodically for gas leakage.

SHUT DOWN CAUSED BY PILOT OUTAGE

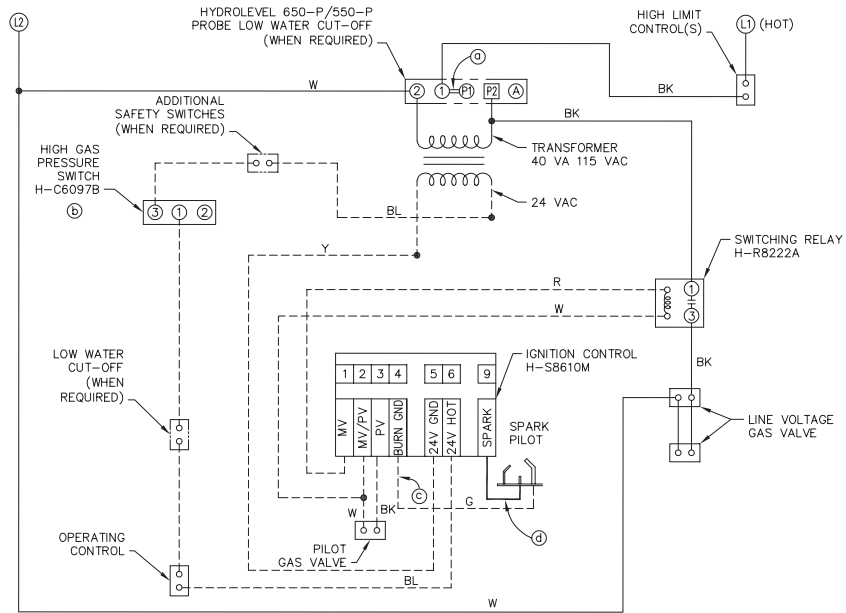
1. In the event of pilot outage effecting a shut-down of the main burners, turn off the electric power to boiler, close the Manual Shut-Off Valve and Pilot Cock and investigate cause for shut-down.
2. After cause for shut-down has been determined and corrected – restart.

Dealer's Name _____

Address _____

Phone _____ Date of Installation _____

RECOMMENDED WIRING FOR HONEYWELL IGNITION CONTROL S-8610M — HSP-1 SYSTEM WITH 120 VOLT MAIN GAS VALVES

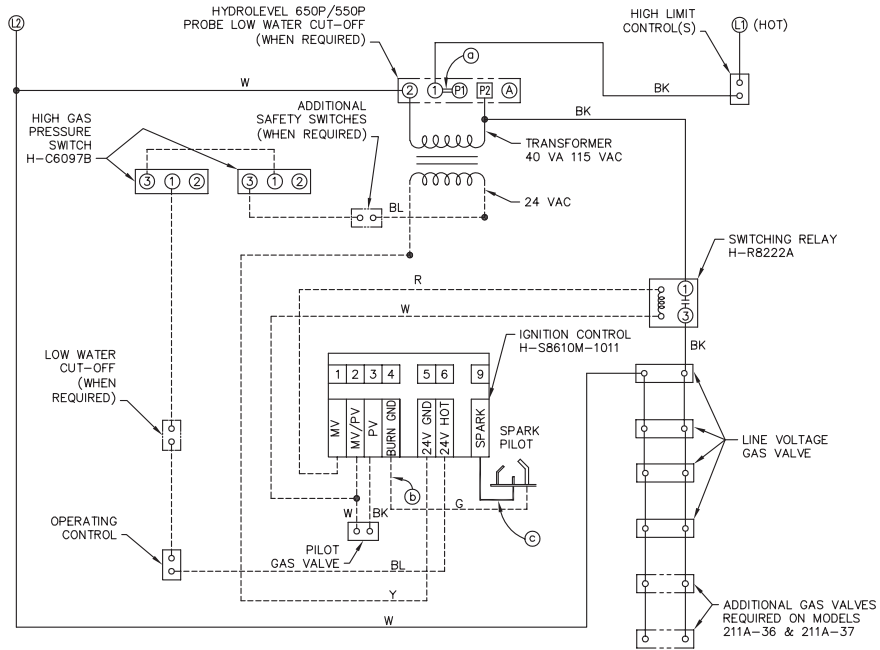


- ⓐ — PLACE JUMPER
- ⓑ — HIGH GAS PRESSURE SWITCH H-C6097B REQUIRED ON BOILER MODELS 211A-13 THRU 211A-18.
- ⓒ — GROUND LEADWIRE 200°C THERMOPLASTIC, ALL OTHER WIRING 80°C THERMOPLASTIC.
- ⓓ — IGNITION AND SENSING CABLE

— LINE VOLTAGE
 - - - - - LOW VOLTAGE

NOTES:

ALL WIRING MUST COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRE AS SHOWN OR ITS EQUIVALENT.



- ⓐ — PLACE JUMPER
- ⓑ — GROUND LEADWIRE 200°C THERMOPLASTIC, ALL OTHER WIRING 80°C THERMOPLASTIC.
- ⓒ — IGNITION AND SENSING CABLE

— LINE VOLTAGE
 - - - - - LOW VOLTAGE

NOTES:

ALL WIRING MUST COMPLY WITH APPLICABLE CODES, ORDINANCES AND REGULATIONS. IF ANY OF THE ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRE AS SHOWN OR ITS EQUIVALENT.

RECOMMENDED WIRING FOR HONEYWELL IGNITION CONTROL S-8610M — HSP-1 SYSTEM WITH 24 VOLT MAIN GAS VALVES

