SCHEMATIC WIRING DIAGRAM ADDITIONAL LIMITS LIMIT (NOTE 6) CONTROL BK EQUIPMENT GROUND (NOTE 7) THERMOSTAT 0 BK OR EMCS w ROBERTSHAW (NOTE 5) GAS VALVE w o SERVICE UNIVERSAL SPARK BL **SWITCH** IGNITION CONTROL G Ö G (BY OTHERS) MV/PV BK BK TRANSFORMER GND (BURNER) 120/24 V.A.C. 24V (GND) 24V PLUG-IN DPST DAMPER SENSE RELAY CONNECTOR SPARK CIRCULATOR JUNCTION BOX (NOTE 9) WIRE NUT CABLE TO DAMPER PILOT ELECTRICAL SHOCK HAZARD, CAN CAUSE SEVERE (NOTE 8) INJURY OR DEATH. DISCONNECT POWER BEFORE INSTALLING AND/OR SERVICING.

NOTES:

- 1. ALL WIRING MUST BE INSTALLED IN ACCORDANCE WITH: A. U.S.A. - NATIONAL ELECTRICAL CODE AND ANY OTHER NATIONAL, STATE OR LOCAL CODE REQUIREMENTS.
- B. CANADA C.S.A. C22.1 CANADIAN ELECTRICAL CODE PART 1 AND ANY OTHER NATIONAL, PROVINCIAL OR LOCAL CODE REQUIREMENTS.
- 2. ALL CONTACTS SHOWN WITHOUT POWER APPLIED-OFF SHELF CONDITION.
- 3. IF ORIGINAL ROLLOUT TFE WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, TYPE 200°C WIRE OR ITS EQUIVALENT MUST BE USED. IF OTHER ORIGINAL WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, TYPE 105°C OR ITS EQUIVALENT MUST
- 4. REFER TO CONTROL COMPONENT INSTRUCTIONS PACKED WITH BOILER FOR APPLICATION INFORMATION
- 5. THERMOSTAT FOR SINGLE ZONE SYSTEMS, THERMOSTAT ANTICIPATOR SETTING IS 0.40 AMPS. FOR MULTIPLE ZONE SYSTEMS USING ZONE VALVES OR CIRCULATORS, REFER TO COMPONENT MANUFACTURER'S INSTRUCTIONS FOR APPLICATION WIRING AND
 - THERMOSTAT ANTICIPATOR SETTING EMCS - FOR EMCS CONNECTION IN PLACE OF THERMOSTAT, REFER TO EMCS INSTALLATION/OPERATING MANUAL
- 6. L.W.C.O., ADDITIONAL HIGH LIMIT, ETC., WIRED IN SERIES
- DENOTES FIELD INSTALLED CHASSIS GROUND
- 8. PILOT LEADWIRES ARE NOT FIELD REPLACEABLE. REPLACE PILOT ASSEMBLY IF NECESSARY.
- 9. CIRCULATOR NOT USED WITH GRAVITY HOT WATER.

- **EGH**
- Intermittent Pilot

LOW VOLTAGE FIELD HIGH VOLTAGE FIELD

LOW VOLTAGE FACTORY

HIGH VOLTAGE FACTORY

CABLE

TO

DAMPER

Natural Gas

IGNITION CABLE

- · Forced/Gravity Hot Water
- 85 thru 125 Without Tankless Heater



LADDER WIRING DIAGRAM

CIRCULATOR

(NOTE 9)

RELAY COIL

UNIVERSAL SPARK

IGNITION CONTROL

ΜV

MV/PV

PV

24V

SENSOR

IGNITOR

EQUIPMENT

GROUND

(NOTE 7)

120 V.A.C.

PRIMARY

24 V.A.C.

LIMIT

CONTROL

ROBERTSHAW

GAS VALVE

TR

GND

(BURNER)

24V

(GND)

SENSE

CR₂

ADDITIONAL

LIMITS

(NOTE 6)

FUSE !

(3)

(5)

6)

DAMPER

CONNECTOR

3

(5)

4

②

6

SERVICE SWITCH

(BY OTHERS)

THERMOSTAT

OR EMCS

(NOTE 5)

WEIL-McLAIN

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