## SCHEMATIC WIRING DIAGRAM I ADDER WIRING DIAGRAM TRANSFORMER SWITCH 120/24 V.A.C. 120 V.A.C. GAS VALVE EQUIPMENT THERMOSTAT (SEE TABLE 1) GROUND OR EMCS SERVICE SWITCH (NOTE 9) (NOTE 5) EQUIPMENT (BY OTHERS) 0 BK вк GROUND UNIVERSAL SPARK CIRCULATOR BK BK (NOTE 9) **"A"** IGNITION CONTROL (NOTE 10) ~~~~~~~~~~~~~~~~<del>~</del>~~~~~~~~~~ ⇒ MV/PV ·C BL. er PV SERVICE GND (BURNER) SWITCH GÖ (BY OTHERS) G 24V (GND) 24 V.A.C. 24V THERMOSTAT BK **□** TH вк OR EMCS RELAY COM (NOTE 5) ROLLOUT SENSE **ADDITIONAL** GAS VALVE 0 (SEE TABLE 1) LIMITS SPARK PLUG-IN (NOTE 6) CABLE DPST MV то RELAY LIMIT DAMPER MV/PV .V. 0 ·O CIRCULATOR JUNCTION BOX WIRE NUT (NOTE 10) PV ELECTRICAL SHOCK HAZARD, CAN CAUSE SEVERE INJURY OR DEATH, DISCONNECT POWER GND PILOT BEFORE INSTALLING AND/OR SERVICING. (BURNER) (NOTE 8) NOTES: 24V (GND) 1. ALL WIRING MUST BE INSTALLED IN ACCORDANCE WITH: A. U.S.A. - NATIONAL ELECTRICAL CODE AND ANY OTHER NATIONAL, STATE OR LOCAL CABLE CODE REQUIREMENTS HAVING JURISDICTION. 24V то B. CANADA - C.S.A. C22.1 CANADIAN ELECTRICAL CODE PART 1 AND ANY OTHER ROLLOUT DAMPER ADDITIONAL SPILL NATIONAL, PROVINCIAL OR LOCAL CODE REQUIREMENTS HAVING JURISDICTION. CR1 TFE SWITCH LIMITS TH 2. ALL WIRING MUST BE: A. U.S.A. - N.E.C. CLASS 1. (NOTE 6) B. CANADA - C.S.A. C22.1 C.E.C. PART 1. DAMPER LOW VOLTAGE FIELD 3. IF ORIGINAL ROLLOUT THE WIRE AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, HIGH VOLTAGE FIELD PLUG TYPE 200°C WIRE OR ITS EQUIVALENT MUST BE USED. IF OTHER ORIGINAL WIRE AS LOW VOLTAGE FACTORY SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, TYPE 105°C OR ITS EQUIVALENT MUST HIGH VOLTAGE FACTORY SENSOR SENSE IGNITION CABLE BE USED. TABLE 1 IGNITOR 4. REFER TO CONTROL COMPONENT INSTRUCTIONS PACKED WITH BOILER FOR APPLICATION INFORMATION. SPARK "A" .C. **GAS VALVE** HONEYWELL VR8440 TR TH TH-TR 5. THERMOSTAT - FOR SINGLE ZONE SYSTEMS, THERMOSTAT ANTICIPATOR SETTING IS 0.40 AMPS. HONEYWELL VR8204, VR8304 PV FOR MULTIPLE ZONE SYSTEMS USING ZONE VALVES OR CIRCULATORS. REFER MV/PV UNIVERSAL SPARK TO COMPONENT MANUFACTURER'S INSTRUCTIONS FOR APPLICATION WIRING AND WHITE-RODGERS 36E 2 1 3 IGNITION CONTROL WHITE-RODGERS 36C 2-4 THERMOSTAT ANTICIPATOR SETTING. EMCS - FOR EMCS CONNECTION IN PLACE OF THERMOSTAT, REFER TO EMCS **ROBERTSHAW 7200** С М INSTALLATION/OPERATING MANUAL. FACTORY JUMPERED

6. L.W.C.O., ADDITIONAL HIGH LIMIT, WIRED IN SERIES

7. ALL CONTACTS SHOWN WITHOUT POWER APPLIED - OFF SHELF CONDITION.

8. PILOT LEADWIRES ARE NOT FIELD REPLACEABLE. REPLACE PILOT ASSEMBLY IF NECESSARY.

DENOTES FIELD INSTALLED CHASSIS GROUND.

10. CIRCULATOR IS FIELD INSTALLED AND WIRED FOR PFG-5 BOILER.

CGX - 3 thru 6

CG - 25 thru 8

PFG-5

Intermittent Pilot

Natural Gas

Forced Hot Water



**WEIL-McLAIN** 

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