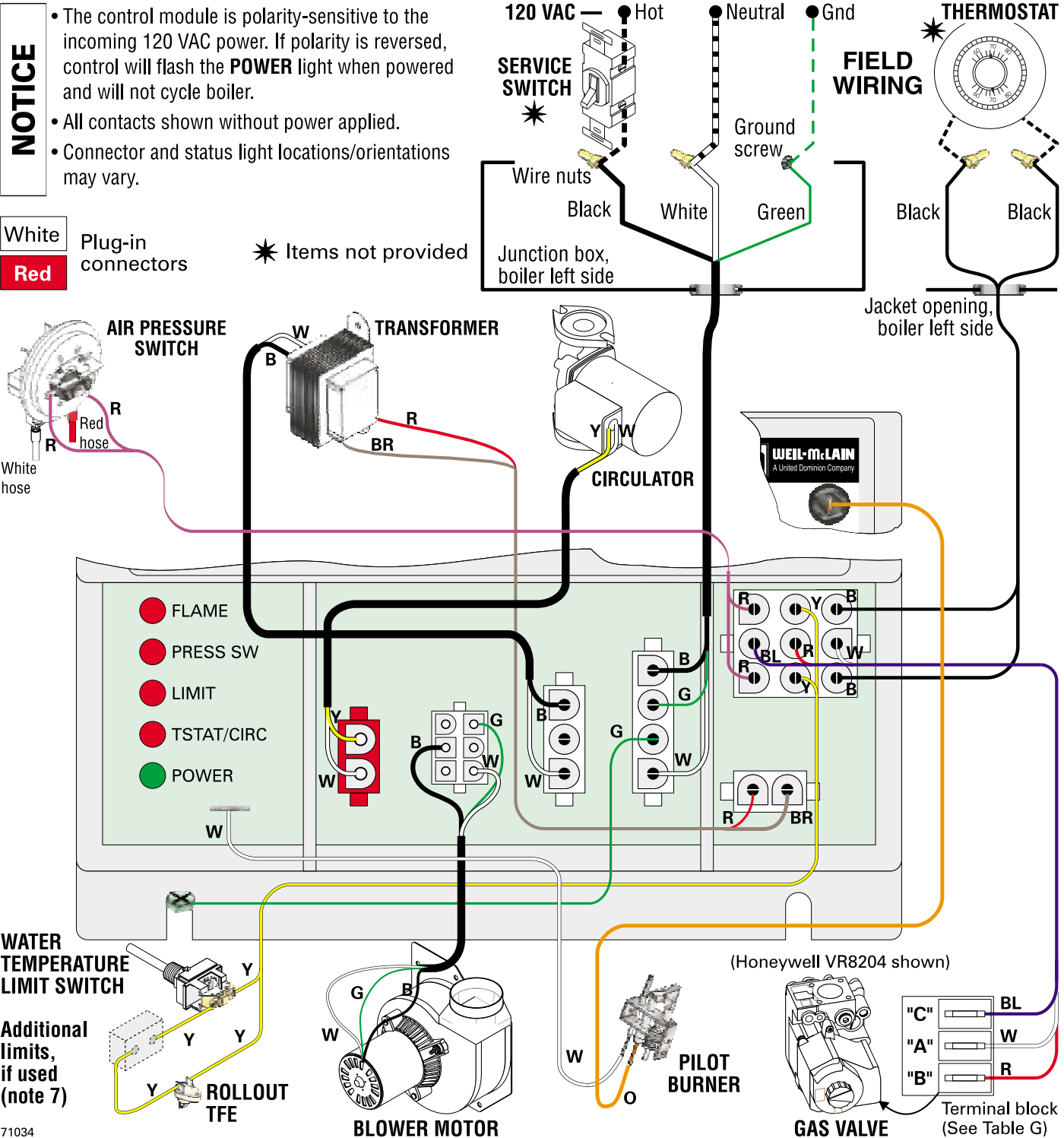




# 9b Operation — wiring diagrams

Figure 19 Schematic wiring diagram



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**Figure 20** Ladder wiring diagram

**WARNING** Electrical shock hazard — can cause severe injury or death. Disconnect power before installing or servicing.

**NOTICE** All contacts are shown without power applied.

### Legend for ladder wiring diagram

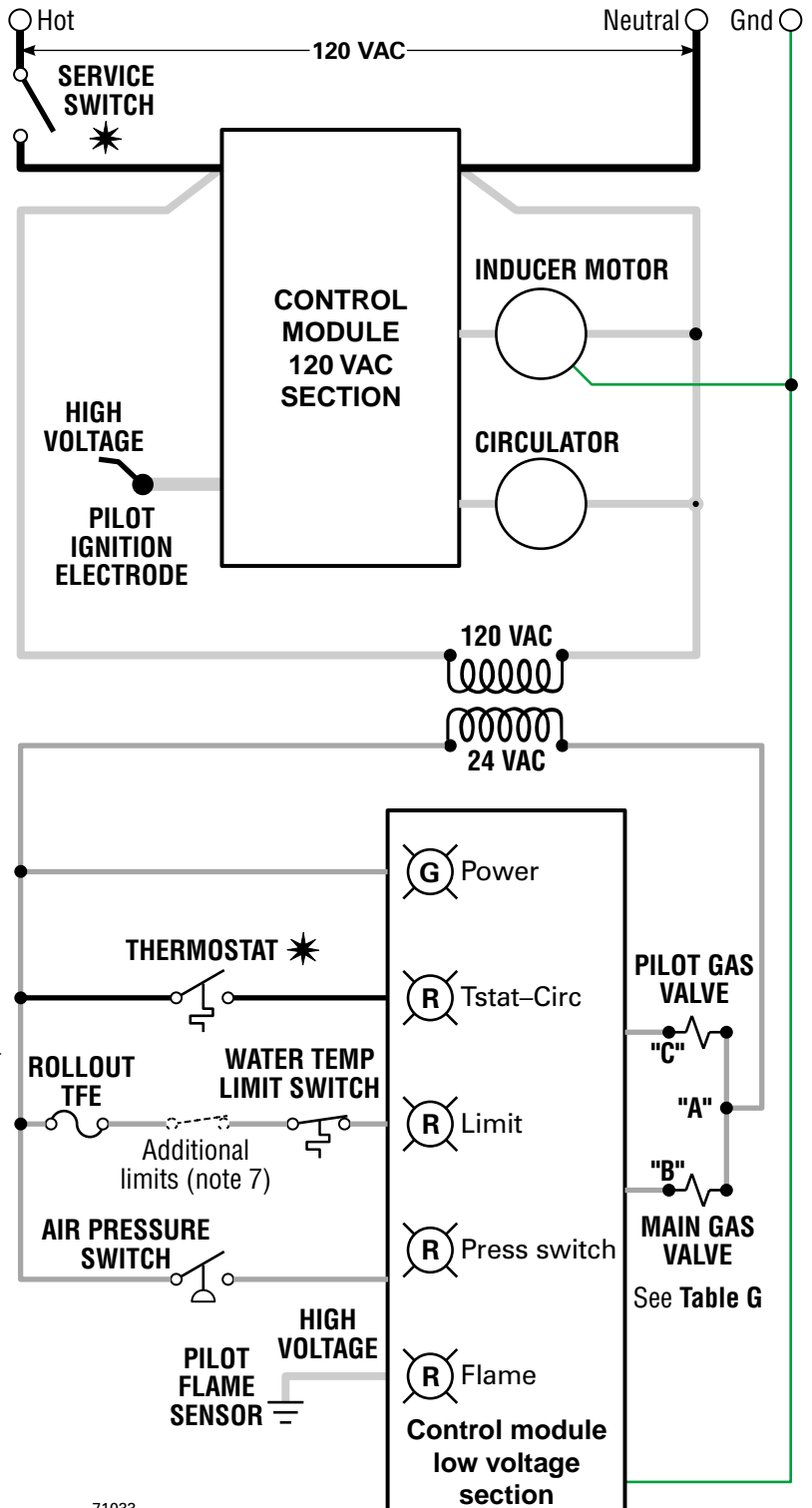
- 120 VAC field wiring
- Low voltage field wiring
- 120 VAC factory wiring
- Low voltage factory wiring
- High voltage spark ignition wiring
- Ground connectors

**Table G: Gas valve terminals and anticipator settings**

Gas valve	"A"	"B"	"C"	Anticipator amps
Honeywell VR8204	MV/PV	MV	PV	0.6
Honeywell VR8304	MV/PV	MV	PV	0.8
White-Rodgers 36E	2	1	3	0.64
White-Rodgers 36C	2-4 *	1	3	0.7

\* Terminals 2-4 are factory-jumpered on the White-Rodgers 36C gas valve.

- All wiring must be installed in accordance with:
  - U.S.A. — N.E.C. And any other national, state, or local code requirements.
  - Canada — C.S.A. C22.1 C.E.C. Part 1 and any other national, provincial, or local code requirements.
- Pilot lead wires are not field replaceable. Replace pilot assembly if necessary.
- If any of the original wire as supplied with the appliance must be replaced, use minimum 105 °C wire or equivalent. Exception — wires to a rollout TFE must be 200 °C or equivalent.
- Thermostat anticipator setting (single zone) — see Table G for anticipator setting, depending on which gas valve is installed in boiler.
- For multiple zoning, use either zone valves or circulators. Refer to the component manufacturer's instructions and this manual for application and wiring suggestions.
- Refer to control component instructions packed with the boiler for application information.
- Wire any additional limit controls (low water cut-off, additional high limit, etc.) in series with boiler limit control as shown.



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