

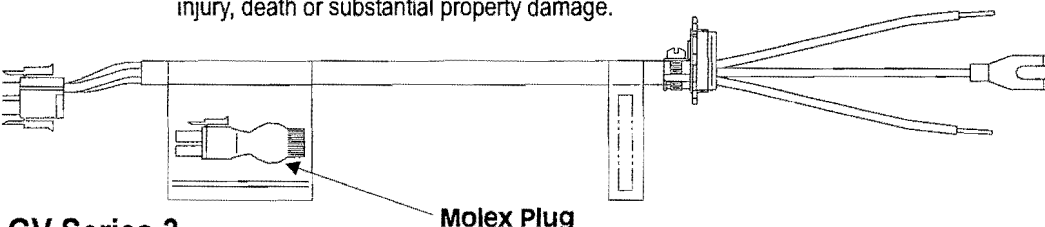
Gold Control Module

Conversion Kit Instructions Part Number 382-200-448

WEIL-McLAIN

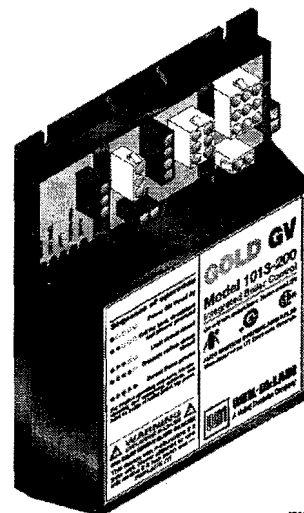
Make sure ground wiring is installed per wiring diagram (see boiler manual).
Good grounding is extremely important for proper operation.

WARNING Solder or water splatter between plugs and circuit board can cause improper operation of control module. Place a shield over the boiler internal controls and components during installation. Failure to comply could result in severe personal injury, death or substantial property damage.



GV Series 3

- (1) Replace module.
- (2) Discard wire harness assembly with plastic bag attached.



CAUTION GV Series 3 boiler can only be used with the Taco 007, Grundfos UP15-42, or the B & G LR20 circulator for either the system circulator or the bypass circulator. The United Technology 1013-200 electronic module cannot properly ramp circulators with higher amp draws and will lead to improper internal boiler water mixing.

GV Series 1 & 2

- (1) Replace module.
- (2) Install molex plug (in plastic bag stapled to harness assembly) in temperature molex on Gold Control.
- (3) Replace existing harness to pump with new harness provided.

CAUTION GV Series 1 & 2 boilers may be equipped with a B & G 100 circulator to deliver more head to the system. This circulator is not compatible with the UT module 1013-200 (kit part number 382-200-448). The UT 1013-200 module is rated for a maximum of 3 amps lock rotor and 2.7 amps full load for the circulator circuit. To allow the B & G 100 to operate properly, a 120 volt isolation relay with one set of normally open contacts, rated for a minimum 23 amps, lock rotor and 3 amps full load is required. See wiring diagram on page 2.

The GV boiler (all series), with a Taco 007, Grundfos UP15-42, or B & G LR20 circulator will work properly with the UT module 1013-200.

HE, HEII & VHE (All Series)

- (1) Replace module.
- (2) Install molex plug (in plastic bag stapled to harness assembly) in temperature molex on Gold Control.
- (3) Remove wires from greenfield (metal casing) to pump.
- (4) Slip new wire harness assembly through greenfield (metal casing) to pump.

CAUTION All series of HE, HEII and VHE boilers may be equipped with a B & G 100 or Taco 110 circulator. These circulators are not compatible with the UT module 1013-200 (kit part number 382-200-448). The UT 1013-200 module is rated for a maximum of 3 amps lock rotor and 2.7 amps full load for the circulator circuit. To allow the B & G 100 or the Taco 110 circulator to operate properly, a 120 volt isolation relay with one set of normally open contacts, rated for a minimum 23 amps, lock rotor and 3 amps full load is required. See wiring diagram on page 2. The HE, HEII and VHE with the Taco 007 or the B & G LR20 will work properly with the UT module 1013-200.

Control Indicator Lights - Lockout Modes

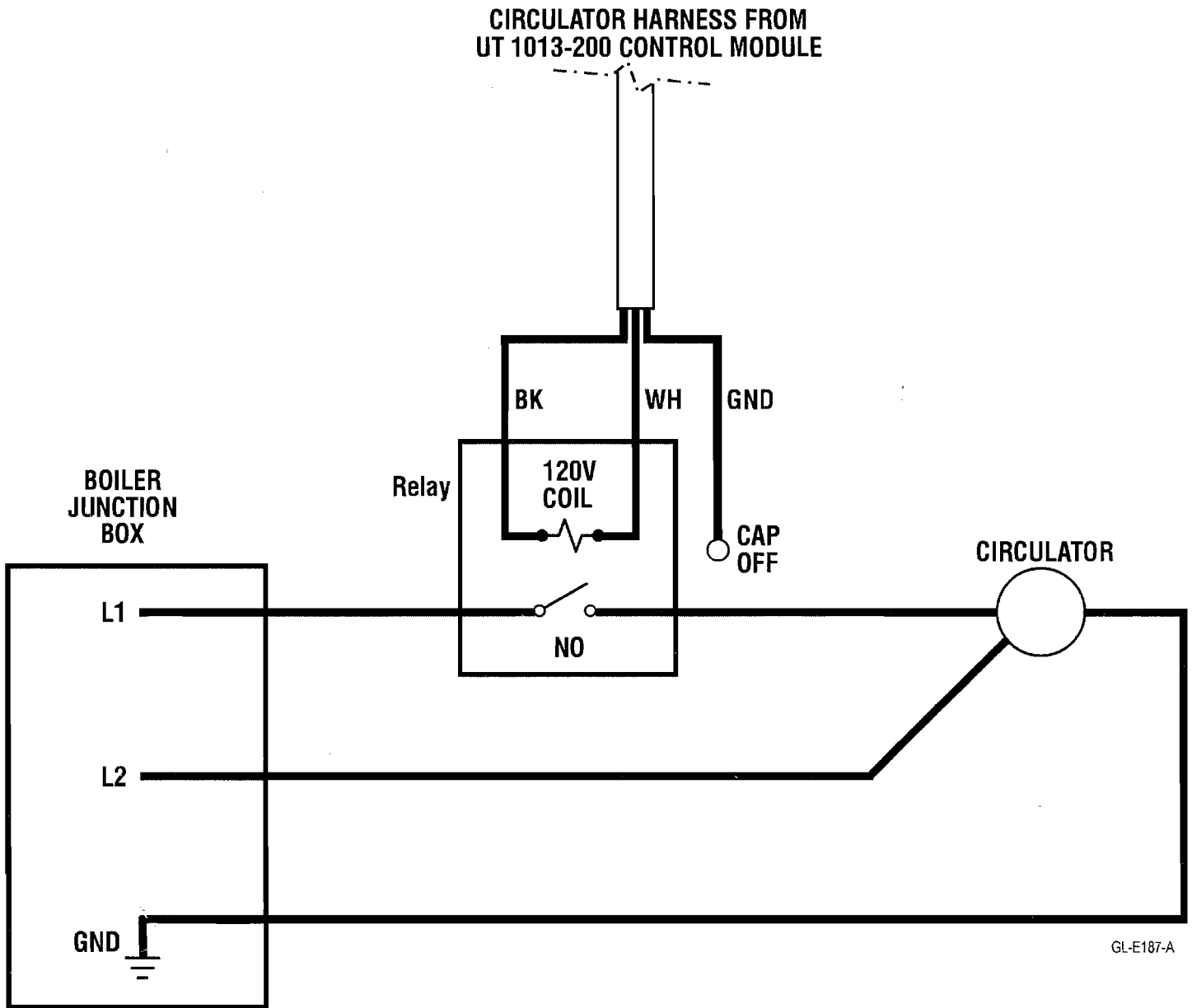
To reset control after a lockout, turn off power at the 120 VAC service switch or turn down all thermostats. Wait 45 seconds. Then restore power or call for heat.

POWER light flashing alone: Usually indicates reversed polarity of 120 VAC power wires.

POWER and **TSTAT CIRC** lights flashing: Usually indicates stray voltage on external thermostat circuit wires.

POWER and **PRESS SWITCH** lights flashing: Usually indicates pressure switch is closed when it should not be, or pressure switch failed to close within 5 minutes of blower starting.

POWER and **FLAME** lights flashing: Usually indicates control has had three unsuccessful ignition attempts or sensed flame when it shouldn't be there.



Operation - sequence

Steps	Call for heat?	POWER	TSTAT CIRC	LIMIT	PRESS SWITCH	FLAME	Timing
1. Standby	NO						—
2. Call for heat • Circulator on	YES						—
3. Limit circuit • Limit controls closed	YES						—
4. Pressure circuit • Pressure switch contacts closed	YES						35 sec
5. Flame proven • Gas valve open • Ignitor remains on	YES						6 sec
6. Limit cycle • Limit circuit open	YES						—
7. Flame outage * • Flame out	YES						—
8. Thermostat satisfied • Circulator off	NO						30 sec
		or = "ON" = "OFF"					
<p>* If flame is not proven in 4 seconds, boiler recycles 2 times to retry for ignition before going into lockout. Recycle igniter timing is 30 seconds. Postpurge and prepurge are performed on every cycle. In event of lockout, ignition control will automatically restore sequence of operation after either: 1 hour waiting period. Opening and closing of thermostat circuit.</p>							

85050