

- - - - COMPONENT MAY OR MAY NOT  
 BE USED  
 ———— TIMER CONSTRUCTION  
 ○ TERMINAL CONNECTION  
 ● SPLICE  
 ∞ IN LINE CONNECTION

**TIMER SWITCH**

| TIMER POSITION  | T-F | T-X | C-H | C-B | C-A |
|-----------------|-----|-----|-----|-----|-----|
| AUTO-REG/HIGH   |     |     |     |     |     |
| * AUTO-LOW HEAT |     |     |     |     |     |
| COOL DOWN AIR   | ⓪   | ⓪   |     |     |     |
| END OF CYCLE    |     |     |     |     |     |
| TIMED-REG/HIGH  |     |     |     |     |     |
| *TIMED-LOW HEAT |     |     |     |     |     |

**LEGEND**

- = OPEN
- = CLOSED
- = DOESN'T MATTER
- ⓪ = EITHER (NOT BOTH)
- \* = WHERE SPECIFIED

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING US PATENTS:  
4669200, 4700495, 4754556, 4840285, 4865366, 4899464,  
4908959, 4989347, 5066050, 5560120, 5809828, 6020698,  
6047486, 6199300, 6446357, D314261, D314262, D457991,  
D457992

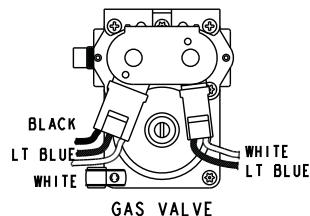
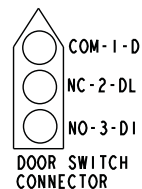
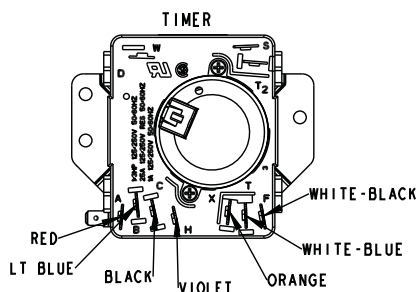
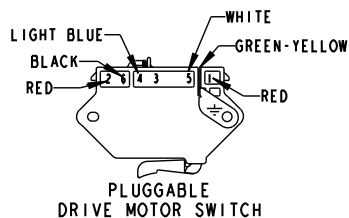
**CAUTION: LABEL ALL WIRES PRIOR TO  
DISCONNECTION WHEN SERVICING CONTROLS.  
WIRING ERRORS CAN CAUSE IMPROPER AND  
DANGEROUS OPERATION.  
VERIFY PROPER OPERATION AFTER SERVICING.**

WIRING DIAGRAM - ELECTRIC

The diagram illustrates the electrical wiring for a gas furnace. Key components and their connections include:

- Power Input:** LI LINE - BK (Black) and W - NEUTRAL (White) at the top right.
- 120 VOLTS:** Indicated by two arrows pointing to the main power lines.
- DRUM LAMP:** Connected to the BK line through a switch.
- DOOR SWITCH:** A normally closed (NC) switch connected to the W line, with a common (COM) terminal connected to the W line and a normally open (NO) terminal connected to the LBU (Low Voltage Bus) line.
- TEMPERATURE SELECTOR:** A switch with positions H (Heat), V (Vent), and B (Burner). It is connected to the BK line and the LBU line.
- THERMOSTAT HEATER:** A heating element connected to the V position of the temperature selector and the LBU line.
- DRIVE MOTOR:** A motor with a main winding (2.4-3.6Ω) and a start winding (2.4-3.8Ω). It is connected to the LBU line and the W-BK line.
- PUSH TO START SWITCH:** A switch with a 5M (Main) and 6M (Start) position, connected to the W or W-R line and the LBU line.
- BUZZER:** Connected to the BK line and the LBU line.
- SWITCH:** A switch connected to the LBU line.
- TIMER MOTOR:** Connected to the BK line and the LBU line.
- HI LIMIT THERMOSTAT:** A normally closed (NC) switch connected to the R (Reset) line and the W-R line.
- THERMAL CUTOFF NOT RESETTABLE:** A switch connected to the W-R line and the R-W line.
- OPERATING THERMOSTAT:** A switch connected to the R-W line and the LBU line.
- THERMAL FUSE NOT RESETTABLE:** A switch connected to the LBU line and the LBU line.
- IGNITOR:** A switch connected to the W-BK line and the LBU line.
- VALVE NO. 1:** A solenoid valve connected to the LBU line and the LBU line.
- VALVE NO. 2:** A solenoid valve connected to the LBU line and the LBU line.
- FLAME SENSOR:** A switch connected to the LBU line and the LBU line.

WIRING DIAGRAM - GAS



LABEL NO.  
**W10185979**  
REV. D