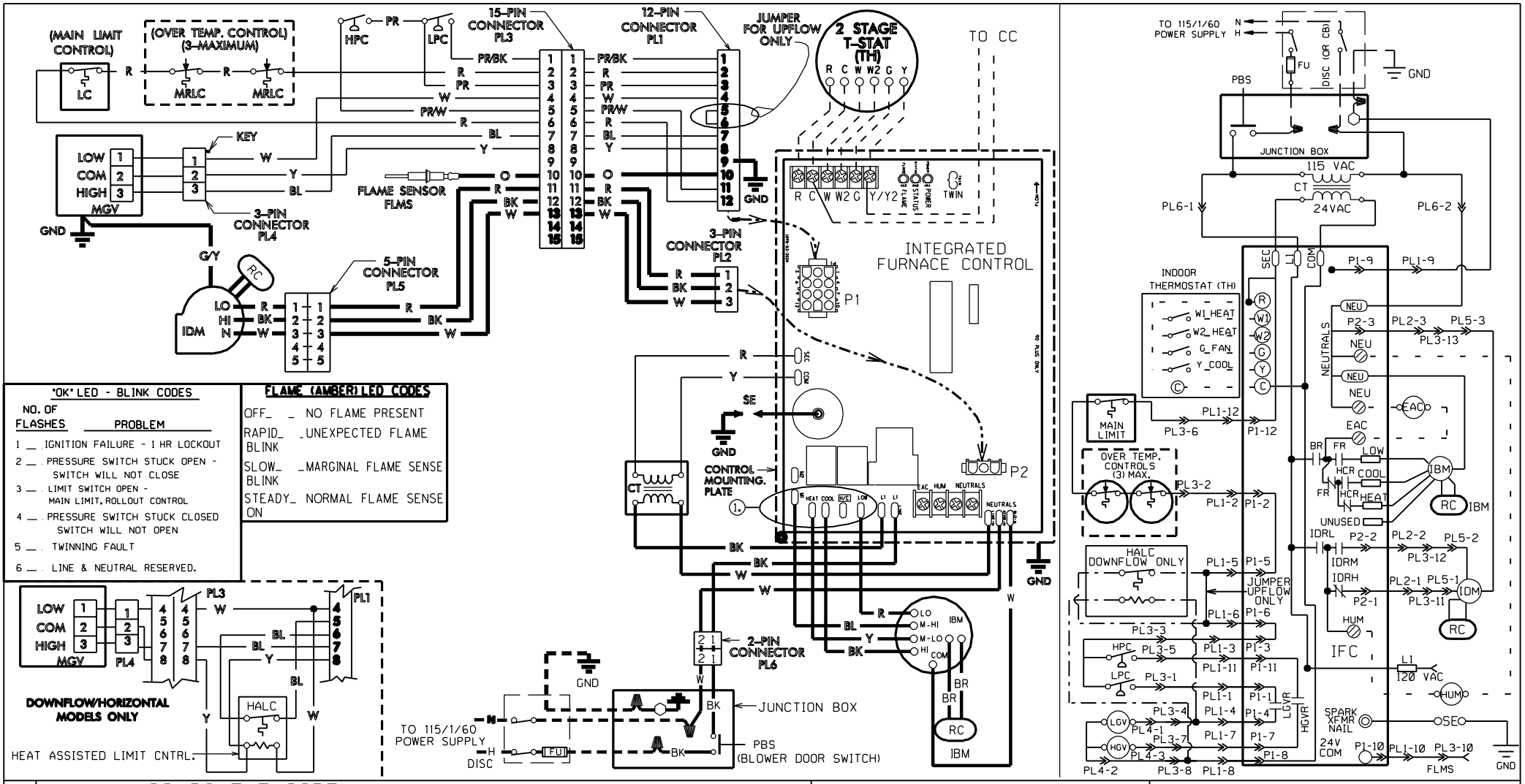



## "OK" LED - BLINK CODES

| NO. OF FLASHES | PROBLEM |
|---|---|
| 1 | IGNITION FAILURE - 1 HR LOCKOUT |
| 2 | PRESSURE SWITCH STUCK OPEN - SWITCH WILL NOT CLOSE |
| 3 | LIMIT SWITCH OPEN - MAIN LIMIT, ROLLOUT CONTROL |
| 4 | PRESSURE SWITCH STUCK CLOSED SWITCH WILL NOT OPEN |
| 5 | TWINNING FAULT |
| 6 | LINE & NEUTRAL RESERVED. |

## FLAME (AMBER) LED CODES

| | |
|---|---|
| OFF | NO FLAME PRESENT |
| RAPID BLINK | UNEXPECTED FLAME |
| SLOW BLINK | MARGINAL FLAME SENSE |
| STEADY ON | NORMAL FLAME SENSE |

## COMPONENT CODE

| | | | |
|---|---|---|---|
| BR | BLOWER RELAY | IDRL | IND. DRAFT RELAY-LOW SPD. |
| CC | COMPRESSOR CONTACTOR | IDRH | IND. DRAFT RELAY - HIGH |
| CT | CONTROL TRANSFORMER | IFC | INTRGRTD FURNACE CNTRL |
| DISC | DISCONNECT SWITCH | IR | IGNITION RELAY |
| EAC | ELECTRIC AIR CLEANER | LC | LIMIT CONTROL |
| FR | FAN RELAY | LGVR | LOW GAS VALVE RELAY |
| FLMS | FLAME SENSOR | LPC | LOW PRESSURE CONTROL |
| FU | FUSE | MGV | MAIN GAS VALVE |
| GND | GROUND | MRLC | MAN. RESET LIMIT CNTRL |
| GVR | GAS VALVE RELAY | NPC | NEG. PRESSURE CNTRL |
| HALC | HEAT ASSIST. LIMIT CNTRL. | PBS | PUSH BUTTON SWITCH |
| HCR | HEAT/COOL RELAY | P | PLUG MOUNTED ON CONTROL BOARD |
| HGVR | HIGH GAS VALVE RELAY | PL | PLUG |
| HPC | HIGH PRESSURE CONTROL | RC | RUN CAPACITOR |
| HUM | HUMIDIFIER | SE | SPARK IGNIT. ELECTRODE |
| HUMR | HUMIDIFIER RELAY | TH | THERMOSTAT (H/C) |
| IBM | INDOOR BLOWER MOTOR | ▲ | WIRE NUT |
| IDM | INDUCED DRAFT MOTOR | | |

## NOTES:

1. REFER TO SPEC. SHEET FOR ACTUAL FACTORY MOTOR TAP PLACEMENT OF "HEAT" & "LOW" AS SOME MODELS ARE DIFFERENT THAN SHOWN HERE. ALSO, REFER TO SPEC. SHEET OR INSTALLATION MANUAL IF WIRING OF HEAT AND / OR COOL SPEEDS IS NOT DESIREABLE.
2. CONNECT UNUSED MOTOR LEADS TO M1 AND/OR M2.
3. DO NOT CONNECT ANY LEADS TO HEAT OR COOL TERMINAL IF THE H/C TERMINAL IS USED
4. WITH SINGLE STAGE THERMOSTAT CONNECT "W" ON THERMOSTAT TO "W2" ON IFC.

## WIRING INFORMATION

LINE VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

LOW VOLTAGE
- FACTORY STANDARD
- FACTORY OPTION
- FIELD INSTALLED

REPLACEMENT WIRE
- MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C.MIN.)

WARNING
- CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C., C.E.C., NATIONAL WIRING REGULATIONS, AND LOCAL CODES AS APPLICABLE.

## WIRE COLOR CODE

| | |
|---|---|
| BK__BLACK | O___ORANGE |
| BR__BROWN | PR__PURPLE |
| BL__BLUE | R___RED |
| G___GREEN | W___WHITE |
| GY__GRAY | Y___YELLOW |

# ELECTRICAL WIRING DIAGRAM

UPFLOW/DOWNFLOW/HORIZONTAL
BLOWER INDUCED DRAFT
GAS FIRED, FORCED AIR FURNACE
TWO STAGE HEAT
SINGLE STAGE COOL
DIRECT SPARK IGNITION
90+ MODELS

| DR. BY | APP. BY | DATE | DWG. NO. | REV |
|---|---|---|---|---|
| JIM | | 3-01-07 | 90-100613-02 | 04 |

DWG. NO. 90-100613-02 REV 04