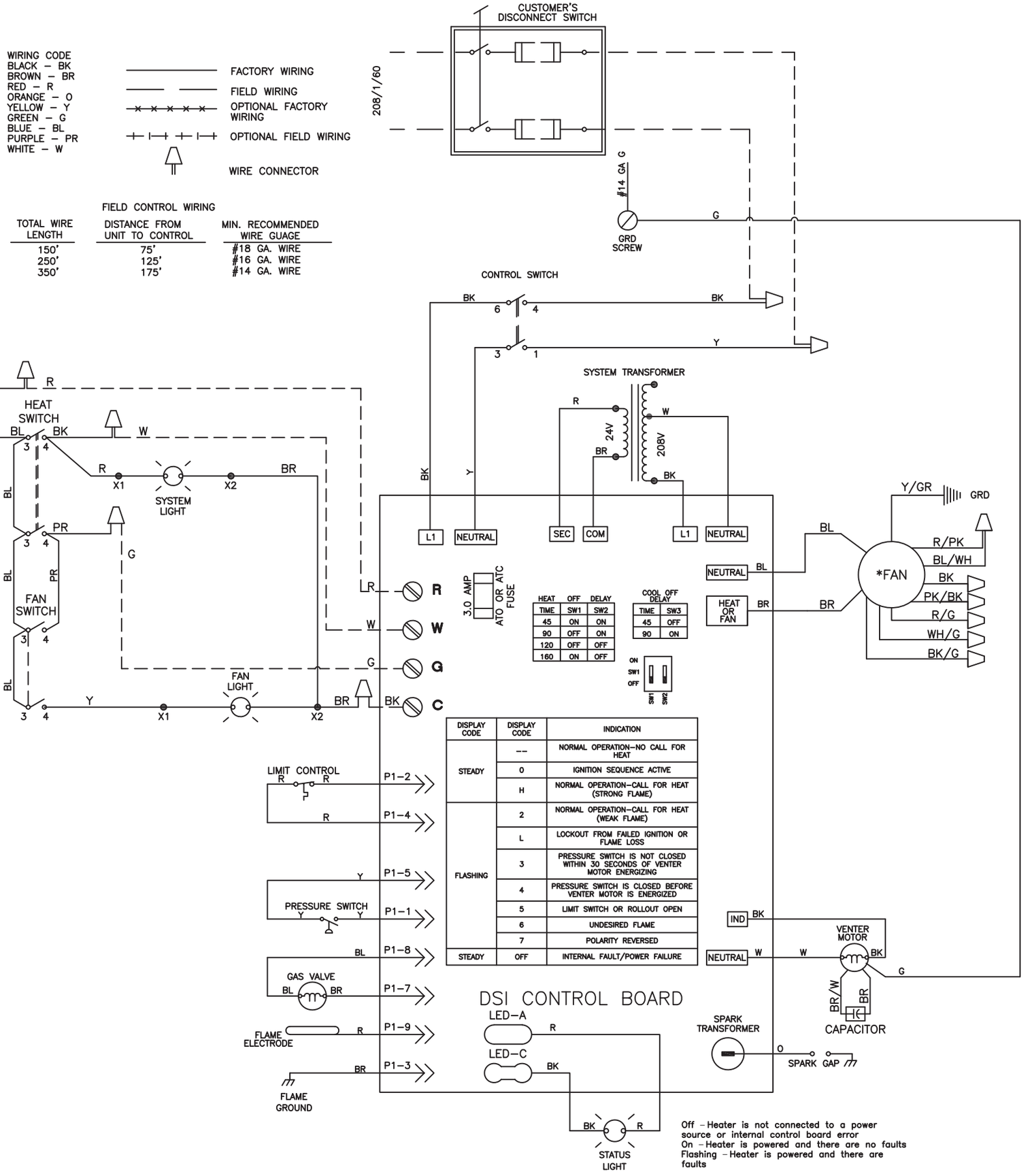
MODEL DTHG (OPTION AK2)



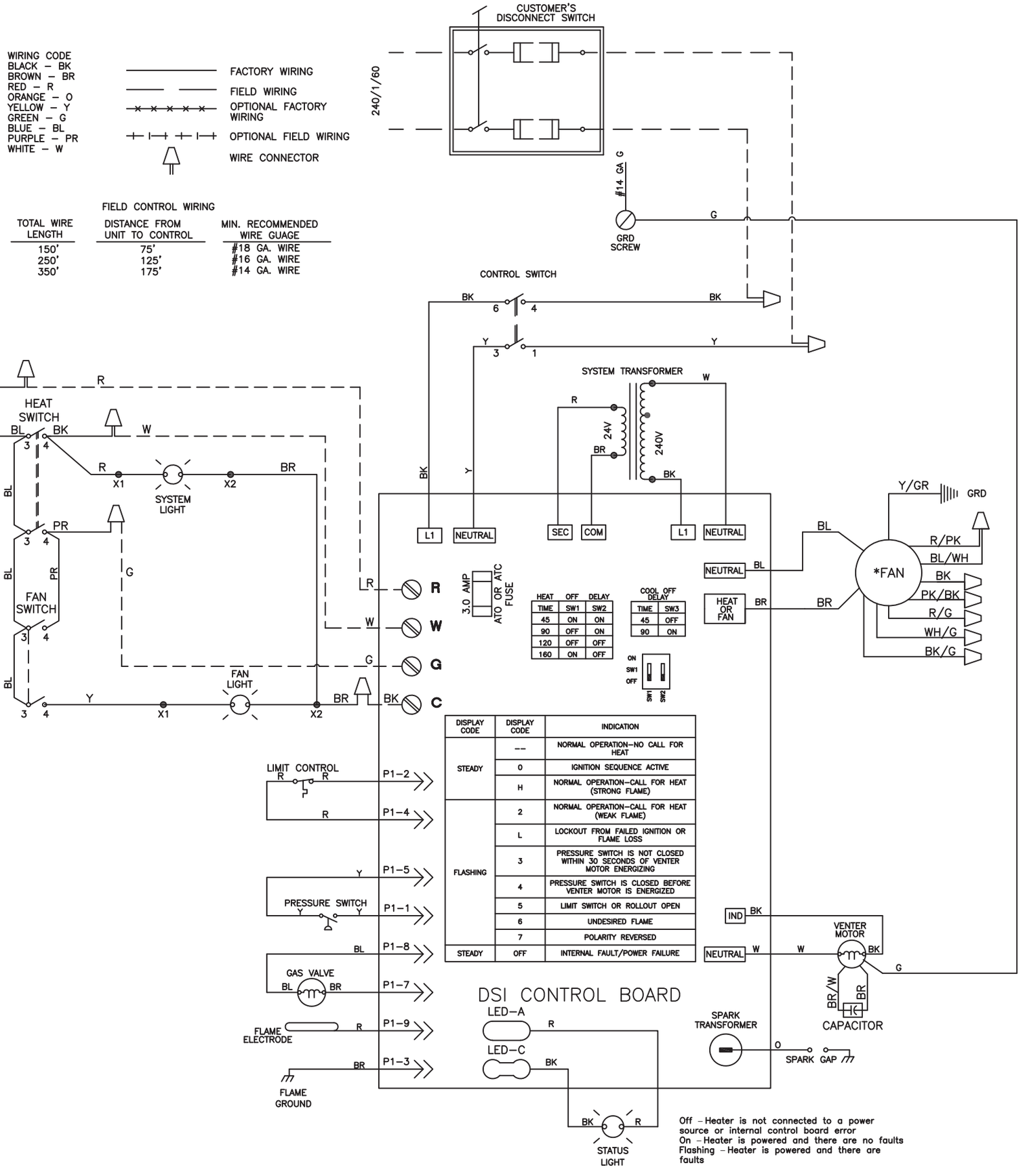
DISPLAY CODE	DISPLAY CODE	INDICATION
STEADY	--	NORMAL OPERATION–NO CALL FOR HEAT
	0	IGNITION SEQUENCE ACTIVE
	H	NORMAL OPERATION–CALL FOR HEAT (STRONG FLAME)
FLASHING	2	NORMAL OPERATION–CALL FOR HEAT (WEAK FLAME)
	L	LOCKOUT FROM FAILED IGNITION OR FLAME LOSS
	3	PRESSURE SWITCH IS NOT CLOSED WITHIN 30 SECONDS OF VENTER MOTOR ENERGIZING
	4	PRESSURE SWITCH IS CLOSED BEFORE VENTER MOTOR IS ENERGIZED
	5	LIMIT SWITCH OR ROLLOUT OPEN
	6	UNDESIRED FLAME
	7	POLARITY REVERSED
STEADY	OFF	INTERNAL FAULT/POWER FAILURE

Off – Heater is not connected to a power source or internal control board error
On – Heater is powered and there are no faults
Flashing – Heater is powered and there are faults

NOTES

1. THE FOLLOWING CONTROLS ARE FIELD INSTALLED OPTIONS: HEAT/FAN SWITCH CONTROL BOX
2. DOTTED WIRING INSTALLED BY OTHERS.
3. CAUTION: IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C. EXCEPT FOR SENSOR LEAD WIRE AND LIMIT WIRING WHICH MUST BE 150° C.
4. USE 18 GA. WIRE FOR ALL WIRING ON THE UNIT.
5. LINE AND FAN MOTOR BRANCH WIRE SIZES SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROPS BEYOND 5% OF SUPPLY LINE VOLTAGE.
6. WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENTS TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS.
7. DISCONNECT SWITCH IS FIELD FURNISHED OR AVAILABLE FROM FACTORY AS AN OPTION.

MODEL DTHG (OPTION AK3)



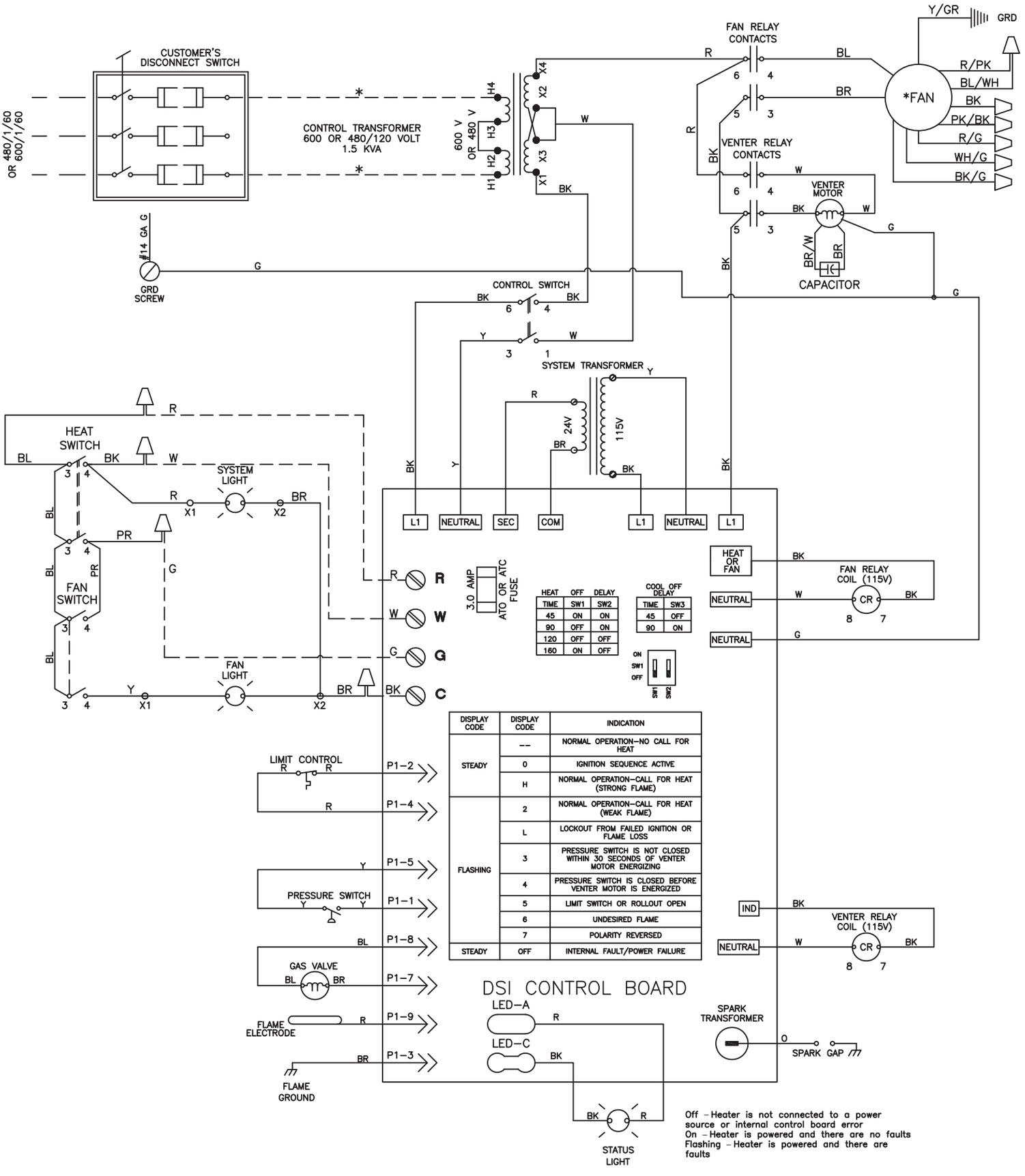
DISPLAY CODE	DISPLAY CODE	INDICATION
STEADY	--	NORMAL OPERATION–NO CALL FOR HEAT
	0	IGNITION SEQUENCE ACTIVE
	H	NORMAL OPERATION–CALL FOR HEAT (STRONG FLAME)
FLASHING	2	NORMAL OPERATION–CALL FOR HEAT (WEAK FLAME)
	L	LOCKOUT FROM FAILED IGNITION OR FLAME LOSS
	3	PRESSURE SWITCH IS NOT CLOSED WITHIN 30 SECONDS OF VENTER MOTOR ENERGIZING
	4	PRESSURE SWITCH IS CLOSED BEFORE VENTER MOTOR IS ENERGIZED
	5	LIMIT SWITCH OR ROLLOUT OPEN
	6	UNDESIRED FLAME
	7	POLARITY REVERSED
STEADY	OFF	INTERNAL FAULT/POWER FAILURE

Off – Heater is not connected to a power source or internal control board error
On – Heater is powered and there are no faults
Flashing – Heater is powered and there are faults

NOTES

1. THE FOLLOWING CONTROLS ARE FIELD INSTALLED OPTIONS: HEAT/FAN SWITCH CONTROL BOX
2. DOTTED WIRING INSTALLED BY OTHERS.
3. CAUTION: IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C. EXCEPT FOR SENSOR LEAD WIRE AND LIMIT WIRING WHICH MUST BE 150° C.
4. USE 18 GA. WIRE FOR ALL WIRING ON THE UNIT.
5. LINE AND FAN MOTOR BRANCH WIRE SIZES SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROPS BEYOND 5% OF SUPPLY LINE VOLTAGE.
6. WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENTS TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS.
7. DISCONNECT SWITCH IS FIELD FURNISHED OR AVAILABLE FROM FACTORY AS AN OPTION.

MODEL DTHG (OPTIONS AK9 AND AK10)



DISPLAY CODE	DISPLAY CODE	INDICATION
STEADY	--	NORMAL OPERATION–NO CALL FOR HEAT
	0	IGNITION SEQUENCE ACTIVE
	H	NORMAL OPERATION–CALL FOR HEAT (STRONG FLAME)
FLASHING	2	NORMAL OPERATION–CALL FOR HEAT (WEAK FLAME)
	L	LOCKOUT FROM FAILED IGNITION OR FLAME LOSS
	3	PRESSURE SWITCH IS NOT CLOSED WITHIN 30 SECONDS OF VENTER MOTOR ENERGIZING
	4	PRESSURE SWITCH IS CLOSED BEFORE VENTER MOTOR IS ENERGIZED
	5	LIMIT SWITCH OR ROLLOUT OPEN
	6	UNDESIRED FLAME
	7	POLARITY REVERSED
STEADY	OFF	INTERNAL FAULT/POWER FAILURE

Off – Heater is not connected to a power source or internal control board error
On – Heater is powered and there are no faults
Flashing – Heater is powered and there are faults

WIRING CODE
BLACK – BK
BROWN – BR
RED – R
ORANGE – O
YELLOW – Y
GREEN – G
BLUE – BL
PURPLE – PR
WHITE – W

FACTORY WIRING
FIELD WIRING
OPTIONAL FACTORY WIRING
OPTIONAL FIELD WIRING
WIRE CONNECTOR

FIELD CONTROL WIRING

TOTAL WIRE LENGTH	DISTANCE FROM UNIT TO CONTROL	MIN. RECOMMENDED WIRE GUAGE
150'	75'	#18 GA. WIRE
250'	125'	#16 GA. WIRE
350'	175'	#14 GA. WIRE

NOTES
1. THE FOLLOWING CONTROLS ARE FIELD INSTALLED OPTIONS: HEAT/FAN SWITCH CONTROL BOX
2. DOTTED WIRING INSTALLED BY OTHERS.
3. CAUTION: IF ANY OF THE ORIGINAL WIRING AS SUPPLIED WITH THE APPLIANCE MUST BE REPLACED, IT MUST BE REPLACED WITH WIRING MATERIAL HAVING A TEMPERATURE RATING OF AT LEAST 105° C. EXCEPT FOR SENSOR LEAD WIRE AND LIMIT WIRING WHICH MUST BE 150° C.
4. USE 18 GA. WIRE FOR ALL WIRING ON THE UNIT.
5. LINE AND FAN MOTOR BRANCH WIRE SIZES SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROPS BEYOND 5% OF SUPPLY LINE VOLTAGE.
6. WHEN PROVIDING OR REPLACING FUSES IN THE FUSIBLE DISCONNECT SWITCH USE DUAL ELEMENTS TIME DELAY FUSES AND SIZE ACCORDING TO 1.25 TIMES THE MAXIMUM TOTAL INPUT AMPS.
7. DISCONNECT SWITCH IS FIELD FURNISHED OR AVAILABLE FROM FACTORY AS AN OPTION.