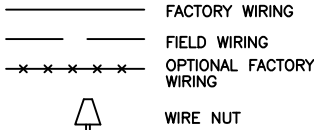


MODEL UDXC

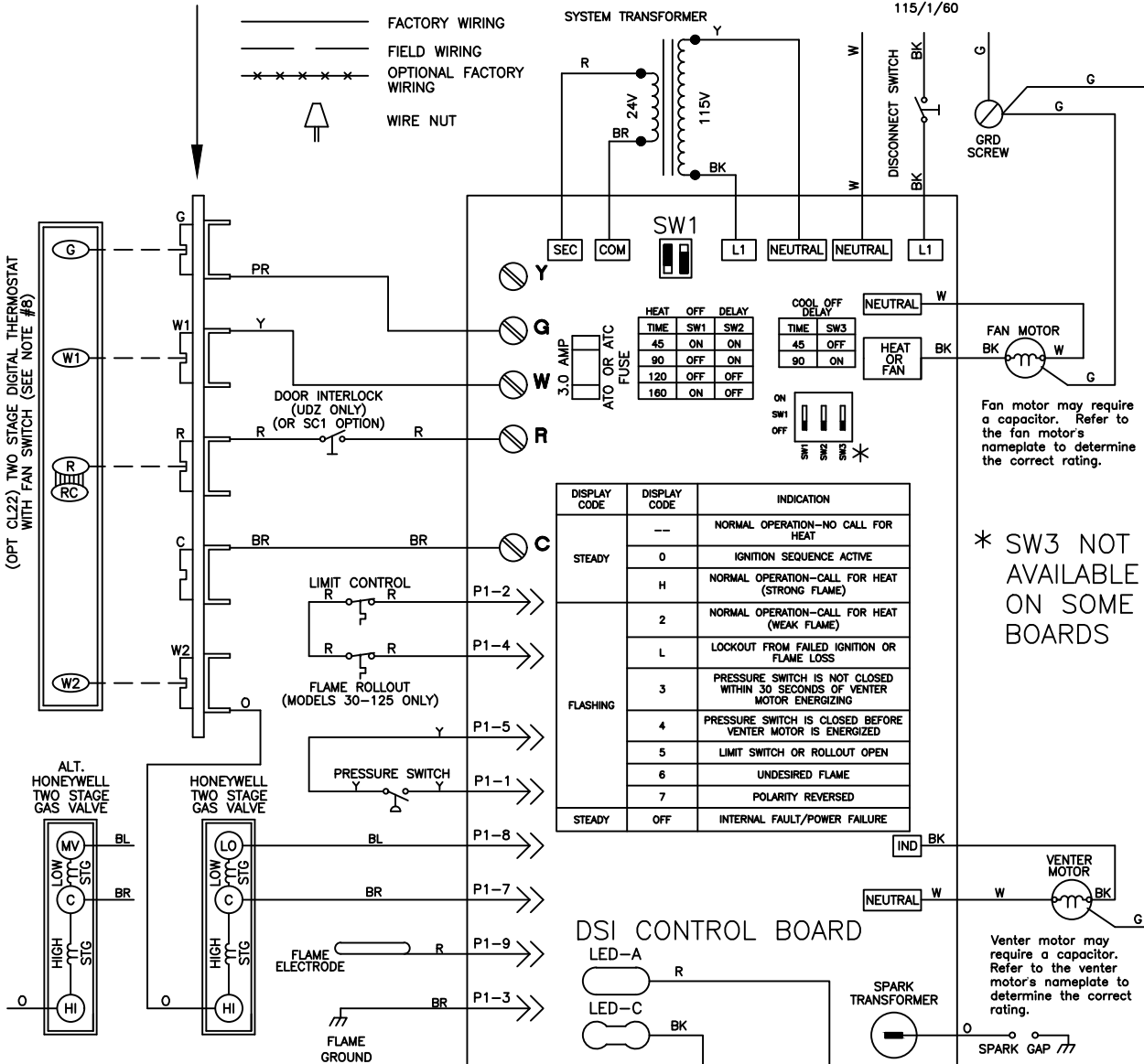
TERMINAL STRIP



SYSTEM TRANSFORMER

115/1/60

(OPT CL22) TWO STAGE DIGITAL THERMOSTAT WITH FAN SWITCH (SEE NOTE #8)



HEAT TIME	OFF SW1	DELAY SW2	COOL OFF TIME	DELAY SW3
45	ON	ON	45	OFF
90	OFF	ON	90	ON
120	OFF	OFF		
160	ON	OFF		

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
STEADY	6	UNDESIRABLE FLAME
	7	POLARITY REVERSED
STEADY	OFF	INTERNAL FAULT/POWER FAILURE

* SW3 NOT AVAILABLE ON SOME BOARDS

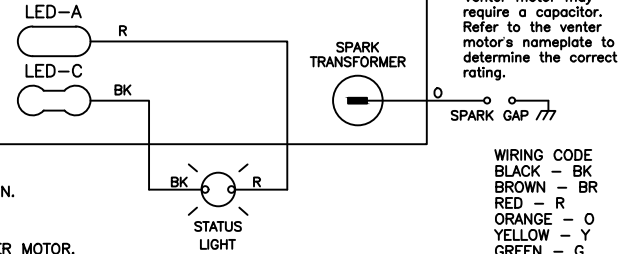
OPERATING SEQUENCE

1. SET THERMOSTAT AT LOWEST SETTING, FAN SWITCH AT "AUTO" POSITION.
2. TURN ON MANUAL GAS VALVE.
3. TURN ON POWER TO UNIT.
4. SET THERMOSTAT AT DESIRED SETTING.
5. LOW STAGE OF THERMOSTAT CALLS FOR HEAT, ENERGIZING THE VENTER MOTOR.
6. VENTER PRESSURE SWITCH CLOSURES, FIRING UNIT AT LOW RATE.
7. BURNER FLAME IS SENSED, AND IN 30 SECONDS THE FAN MOTOR IS ENERGIZED.
8. HIGH STAGE OF THERMOSTAT CALLS FOR HEAT, FIRING UNIT AT FULL RATE.
9. SET FAN SWITCH AT "ON" POSITION FOR CONTINUOUS FAN OPERATION.
10. IF THE FLAME IS EXTINGUISHED DURING MAIN BURNER OPERATION, THE INTEGRATED CONTROL SYSTEM CLOSURES THE MAIN VALVE AND MUST BE RESET BY INTERRUPTING POWER TO THE CONTROL CIRCUIT (SEE LIGHTING INSTRUCTIONS).

NOTES

1. THE FOLLOWING CONTROLS ARE FIELD INSTALLED OPTIONS: THERMOSTAT DOTTED WIRING INSTALLED BY OTHERS.
2. 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, FLAME ROLLOUT AND LIMIT WIRING WHICH MUST BE 150° C.
3. USE 18 GA. WIRE FOR ALL WIRING ON THE UNIT.
4. LINE AND FAN MOTOR BRANCH WIRE SIZES SHOULD BE OF A SIZE TO PREVENT VOLTAGE DROPS BEYOND 5% OF SUPPLY LINE VOLTAGE.
5. JUMPER THERMOSTAT TERMINALS R TO RC.

DSI CONTROL BOARD



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

FIELD CONTROL WIRING

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