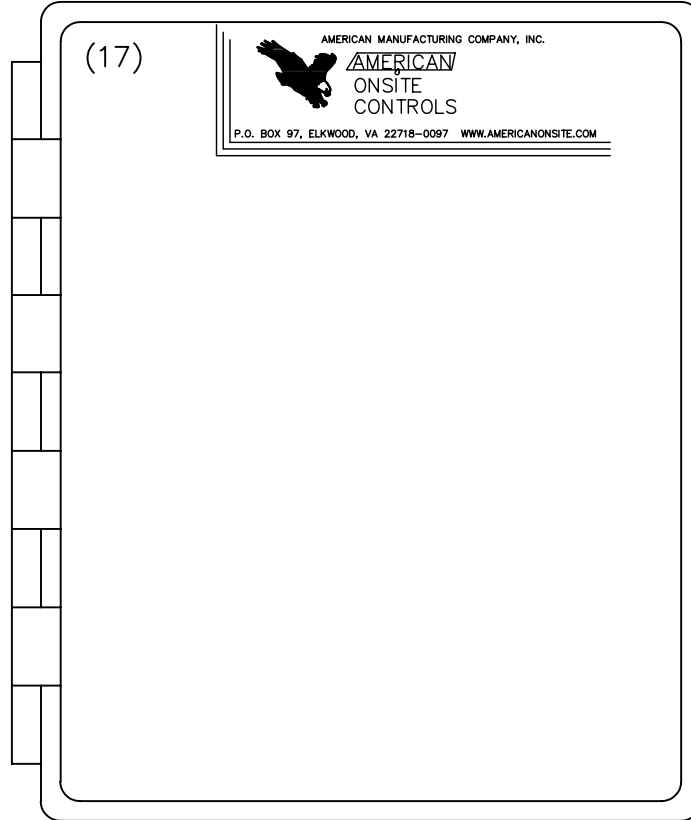




AMERICAN ONSITE CONTROLS

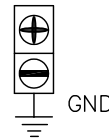
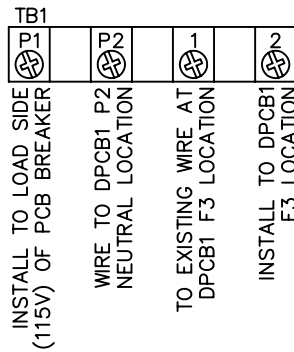
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ALL POWER SUPPLY
BRANCH CIRCUIT PROTECTION
PROVIDED BY OTHERS



SEE PAGE 2

VOLTAGE MONITOR
115V/1PH/60HZ
1A MIN. PROTECTION



TORQUE SETTINGS:

TB1 (ALL TERMINALS)	8-22awg	18-20 in-lbs
---------------------	---------	--------------

INSTALLER NOTES:

1. PLEASE REVIEW ALL PAGES AND INSERTS IN THIS MANUAL BEFORE ATTEMPTING TO INSTALL ANY CONTROL EQUIPMENT.

2. (----) DASHED LINES MAY REPRESENT FIELD WIRING OR OPTIONAL EQUIPMENT.

3. REFER TO TORQUE SETTINGS TO PROPERLY CONNECT USER SUPPLIES ON PAGE 4.

VOLTAGE MONITOR 120 VOLTS INSTALLATION GUIDE FOR "A" SERIES NEMA 4X, 1 PHASE, OPTIONS: V		
MODEL:	X4-V (120Vac)	
DWG#	X8960	REVISION —
DATE:	03/18/09	DRAWN BY: SPC
FILE PATH:	S:\Data\Controls\AutoCADLt2000\X_&_Lightning-Panels\X8960.dwg	PAGE 1

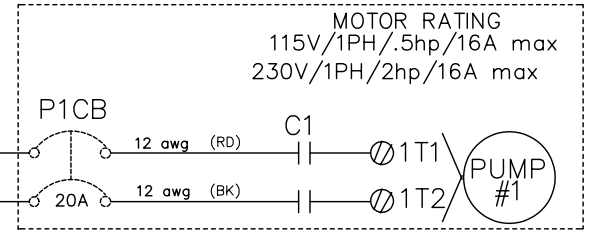


POWER SUPPLY INSTALLATION SCHEMATIC

DRIP SIMPLEX PUMP POWER CIRCUIT

Note: PUMP SUPPLY 115V REQUIRES
1L1 TO BE HOT LEG.
ALL BRANCH CIRCUIT
PROTECTION
PROVIDED BY OTHERS

PUMP SUPPLY
115 or 230 VOLT 1L1
1PH / 60HZ
20A MIN. PROTECTION
FIELD WIRING



DRIP CONTROL CIRCUIT

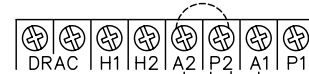
ALL BRANCH CIRCUIT
PROTECTION
PROVIDED BY OTHERS

ALARM CIRCUIT
115V/1PH/60HZ
10A MIN. PROTECTION
A1

PILOT CIRCUIT
115V/1PH/60HZ
10A MIN. PROTECTION
P1

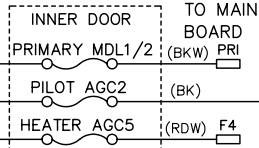
FIELD WIRING

Note:
Requirement for Alarm and Pilot power supplies
may vary. If separate supplies are not required,
a jumper may be installed from the control
supply breaker at location P1 to the alarm
supply breaker at location A1. The neutral on
the printed circuit board at locations P2 and A2
must then be jumpered together.



NEUTRAL (CUSTOMER SUPPLIED)
NEUTRAL (CUSTOMER SUPPLIED)

ACB
10A (RD) 14 awg
PCB
10A (BK) 14 awg

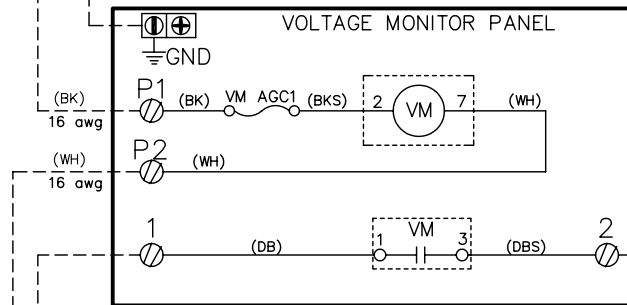


EXTERNAL VOLTAGE MONITOR

NOTE:
----- DASHED LINES
REPRESENT EXTERNAL
FIELD WIRING

NOTES:
ALL INTERNAL WIRES ARE
18 awg UNLESS OTHERWISE
NOTED.

MONITOR VOLTAGE
115V/1PH/60HZ
1A MIN. PROTECTION



POWER SUPPLY INSTALLATION NOTES:

1. DASHED LINES (---) REPRESENT TERMINALS, EQUIPMENT, AND/OR OPTIONS THAT MAY OR MAY NOT BE PRESENT IN EACH SYSTEM COVERED BY THIS MANUAL.
2. BRANCH CIRCUIT PROTECTION MUST BE PROVIDED BY OTHERS. CONSULT NEC AND/OR LOCAL CODES.
3. SINGLE (1) PHASE PUMP MOTORS MUST HAVE INTEGRAL THERMAL OVERLOAD PROTECTION.
4. TEMPERATURE RATING OF FIELD INSTALLED COPPER CONDUCTORS MUST BE AT LEAST 140°F (60°C).
5. FOR PUMPS THAT REQUIRE EXTERNAL CAPACITOR INSTALLATION KITS, SEE "K" PACK INSTALLATION INSERT PROVIDED
6. PUMP SUPPLY MUST MATCH REQUIRED PUMP VOLTAGE. CONDUIT ENTRANCE MUST MATCH ENCLOSURE RATING
7. PUMP AND PANEL VOLTAGE CODE MUST BE EQUIVALENT TO INCOMING PUMP AND CONTROL POWER SUPPLIES.
8. OVERLOAD/MOTOR PROTECTOR UNIT MAY REQUIRE ADJUSTMENT TO MATCH PUMP FULL LOAD AMPS (FLA)
9. SEPARATE OVERLOAD (O.L.) NOT REQUIRED WHEN MOTOR PROTECTORS (MP) ARE SUPPLIED.
10. THE MANUFACTURER RECOMMENDS THAT CONTROL/ALARM SUPPLY BE SEPARATE FROM THE PUMP SUPPLY.
11. REFER TO BACKPLATE LAYOUT ON PAGE 4 FOR THE REQUIRED TORQUE SETTINGS FOR EACH COMPONENT.

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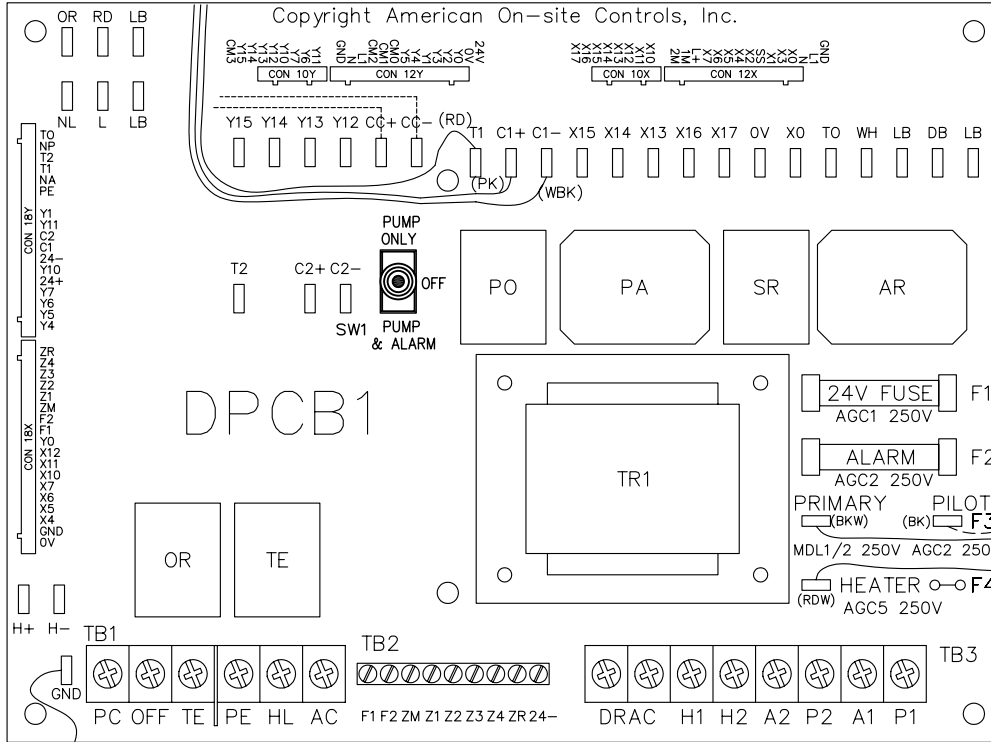
MODEL#: X4-V (120Vac)
DWG#: X8960

DATE: 03/19/09
PAGE 2

CONTROL BOARD HOOKUP DIAGRAM

WIRE COLOR CODE

(BK)–BLACK	(ORS)–ORANGE STRIPE
(BKS)–BLACK STRIPE	(PK)–PINK
(BR)–BROWN	(PKS)–PINK STRIPE
(BRS)–BROWN STRIPE	(PP)–PURPLE
(DB)–DARK BLUE	(PPS)–PURPLE STRIPE
(DBS)–DRK BLUE STRIPE	(RD)–RED
(GR)–GREEN	(RDS)–RED STRIPE
(GRS)–GREEN STRIPE	(TN)–TAN
(GY)–GRAY	(TNS)–TAN STRIPE
(GYS)–GRAY STRIPE	(WH)–WHITE
(LB)–LIGHT BLUE	(WHS)–WHITE STRIPE
(LBS)–LT BLUE STRIPE	(YL)–YELLOW
(OR)–ORANGE	(YLS)–YELLOW STRIPE

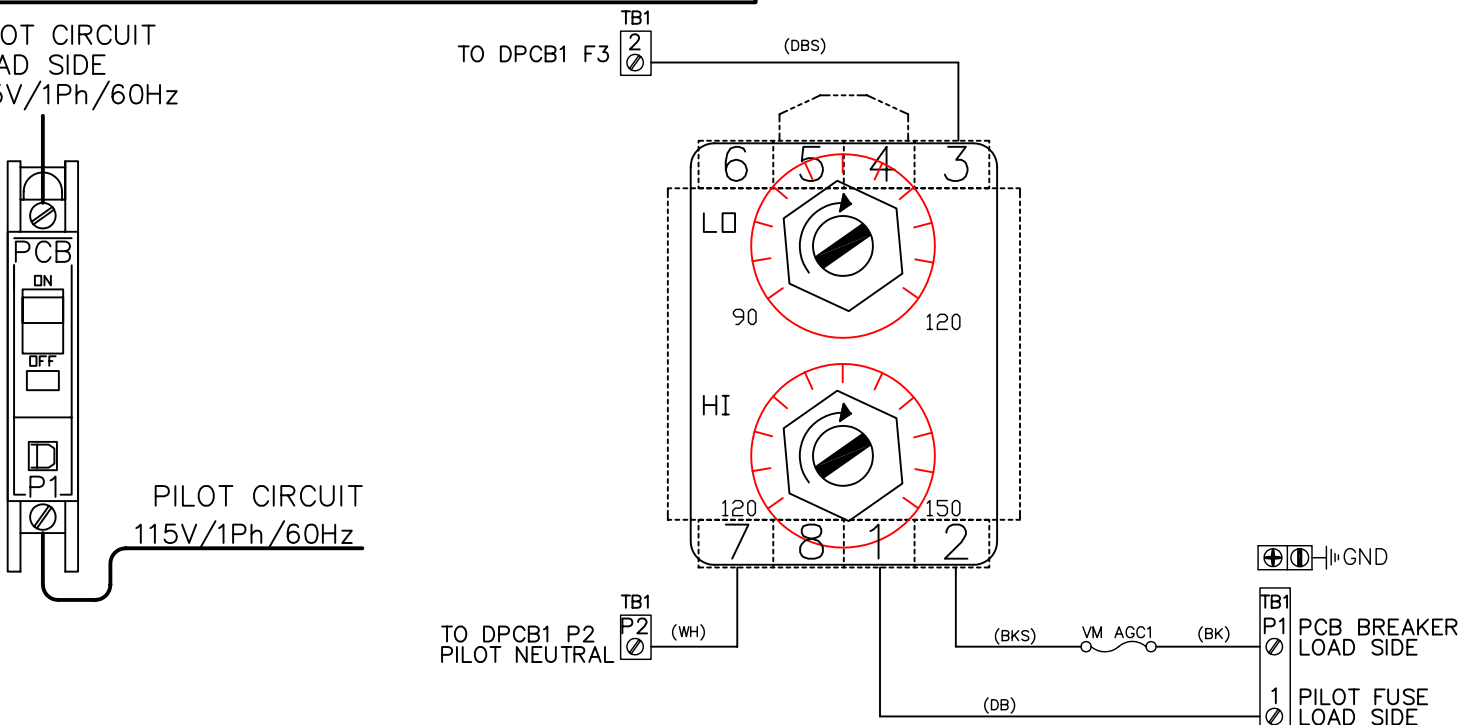


NOTE:
 ----- REMOVE AND REWIRE TO VM

TO INNER DOOR

INFORMATIN DRAWING

PILOT CIRCUIT
 LOAD SIDE
 115V/1Ph/60Hz

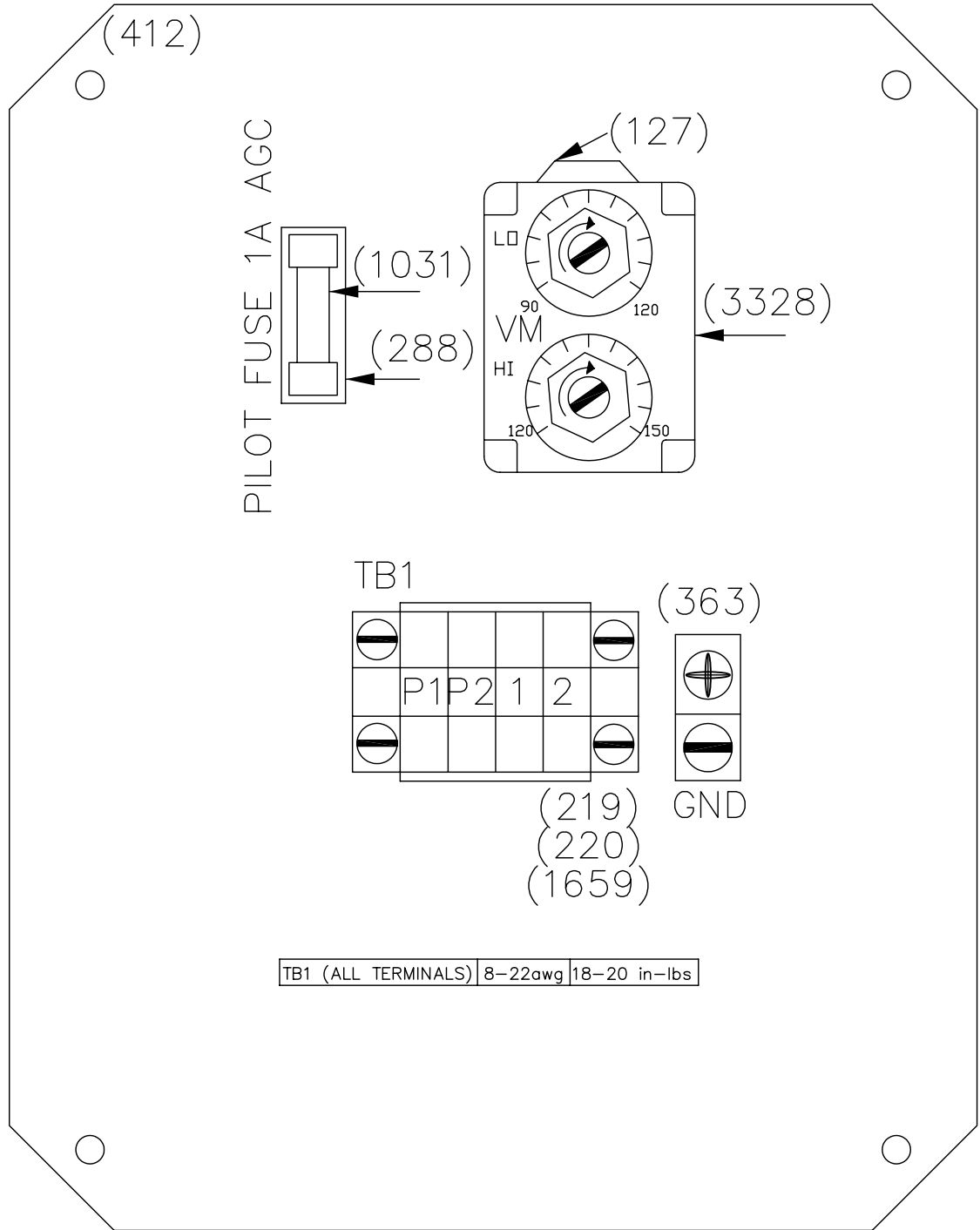


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MODEL#: X4-V (120Vac)
 DWG#: X8960

DATE: 03/19/09
 PAGE 3



BACKPLATE NOTES:

1. (xxxx) DENOTES ITEM NUMBER FOR ALL INSTALLED COMPONENTS.
2. INSTALLERS MUST FOLLOW TORQUE SPECIFICATION PROVIDED. TERMINALS ARE LISTED ALONG WITH ACCEPTABLE WIRE SIZES AND MINIMUM/MAXIMUM TORQUE SETTINGS.

SHORT CIRCUIT RATINGS:
NOT APPLICABLE

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