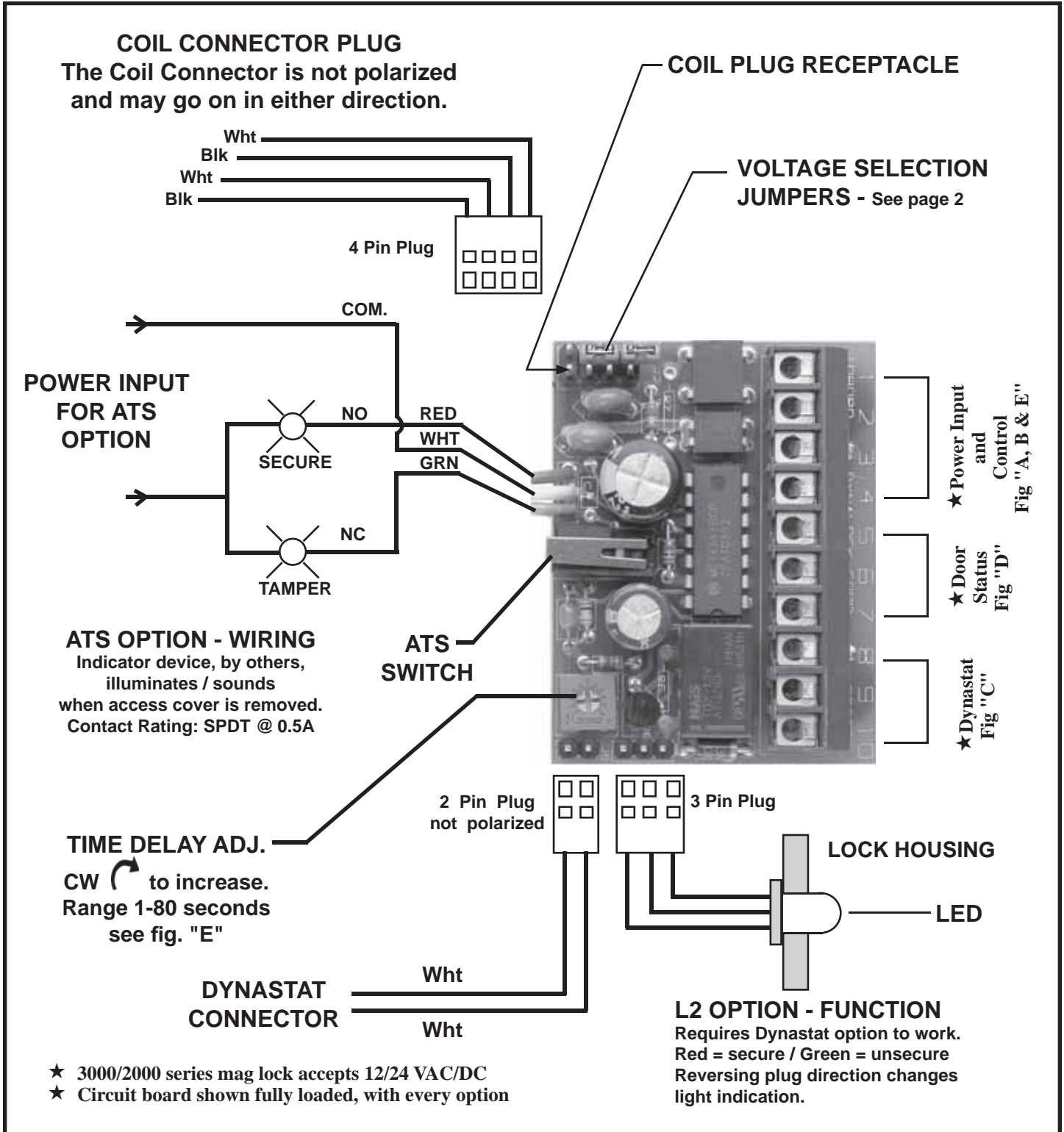


PLEASE READ BEFORE ATTEMPTING INSTALLATIONS

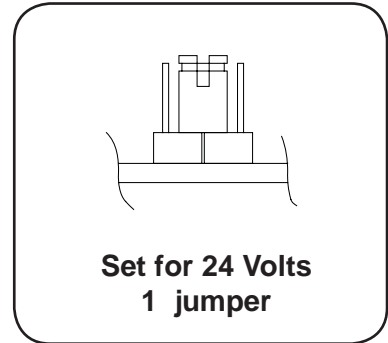
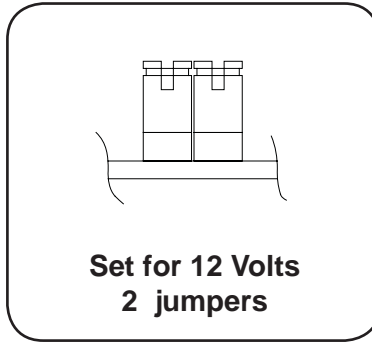
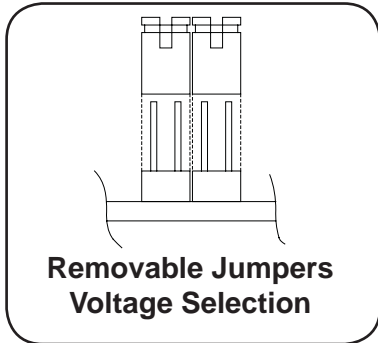
## 3000/ 3000LC/ 2000 SERIES CIRCUIT BOARD DESCRIPTION

Refer to Page 2 & 3 for wiring and voltage instructions



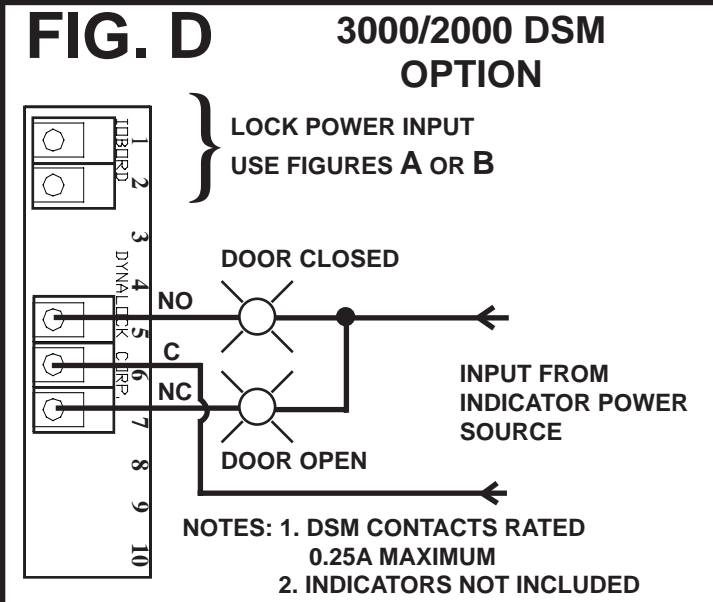
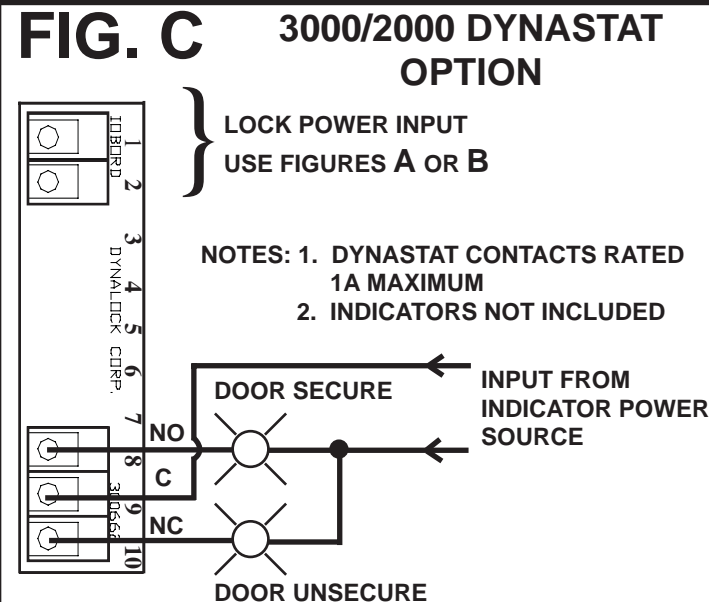
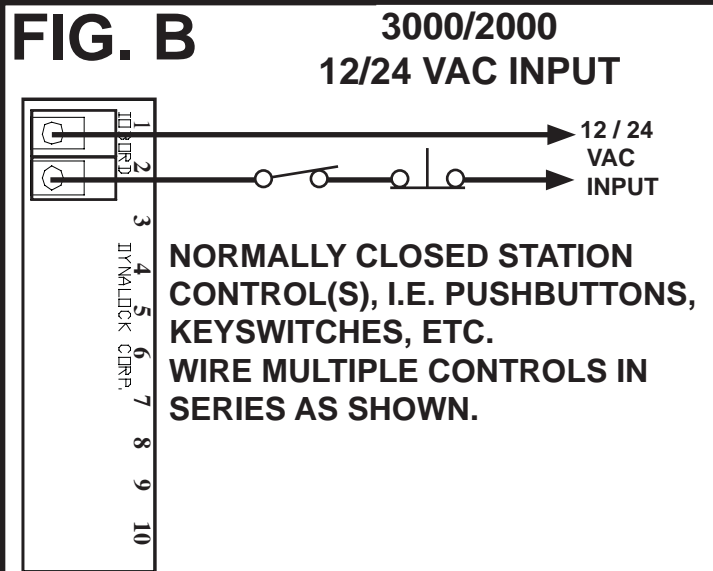
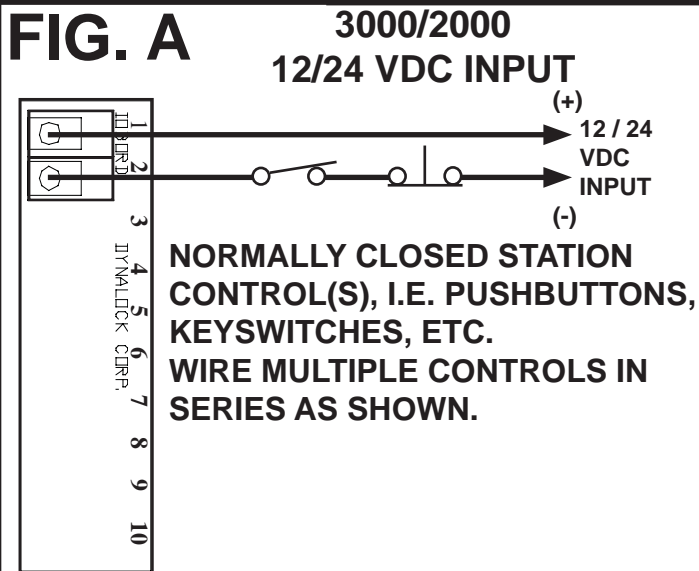
# HOW TO SET VOLTAGE

Voltage is set by proper placement of the blue jumper caps on 4 exposed pins

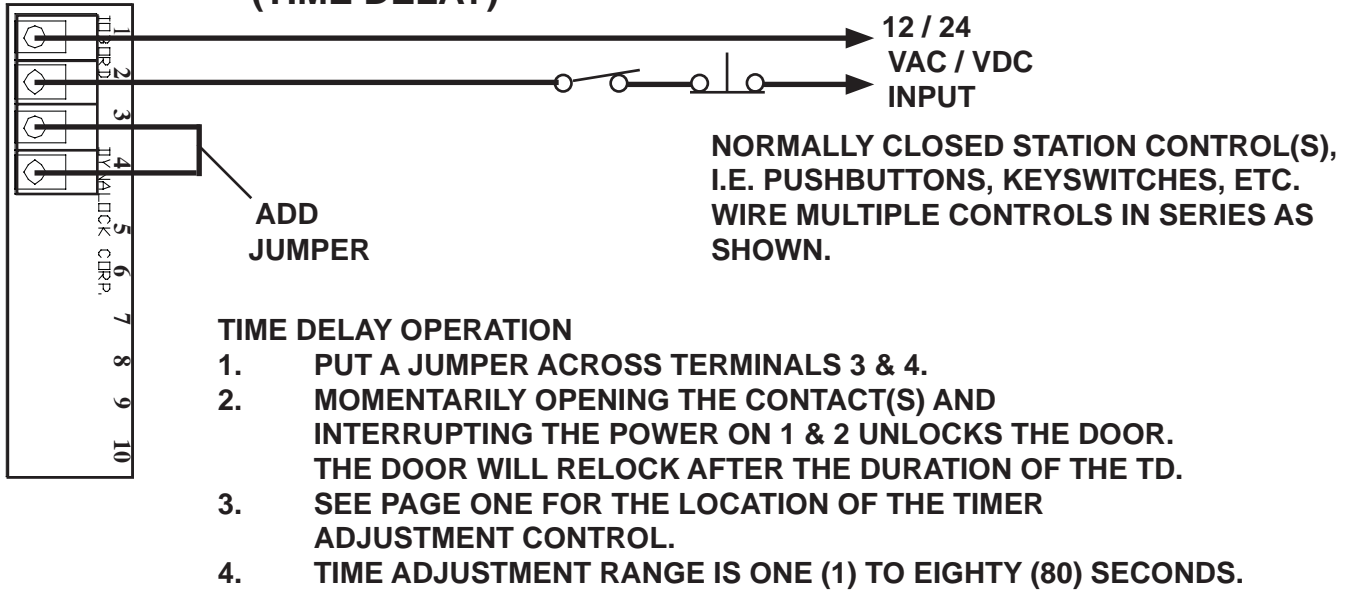


FACTORY SET FOR 24 VOLTS

# WIRING INSTRUCTIONS



# FIG. E 3000 / 2000 TD OPTION (TIME DELAY)



## Notes:

1. This lock may accept any one of 4 different input voltages and be furnished with a combination of options. Refer to page 1 for option location and pages 2 and 3, figure A thru E, for wiring instructions that apply to your specific installation.
2. For additional system wiring information, refer to the installation documentation furnished with the external hardware and / or peripheral devices (I.E. power supply, station controls, keypad, card readers, etc.) supplied by DynaLock and / or others.

## ELECTRICAL SPECIFICATIONS

### OPERATING VOLTAGES

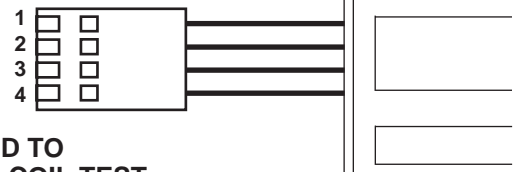
12 OR 24 VAC / VDC

### CURRENT CONSUMPTION, ALL MODELS

12 VAC / VDC - 0.44 A  
24 VAC / VDC - 0.22 A

### COIL RESISTANCE CHECK

REMOVE THE  
MAGNET COIL  
CONNECTOR  
FROM THE  
CIRCUIT BOARD TO  
PERFORM THE COIL TEST



PROPER COIL RESISTANCE SHOULD BE  
FROM POINTS 1 TO 3, ~ 53 OHMS  
FROM POINTS 2 TO 4, ~ 53 OHMS

# TROUBLESHOOTING TIPS

## SYMPTOM

## POSSIBLE CAUSE

## CHECK FOR

DOOR WILL NOT LOCK OR NO MAGNETIC HOLDING FORCE

- NO INPUT POWER
- REVERSED POLARITY
- AN OPEN CIRCUIT IN THE COIL

- CHECK ALL CONNECTIONS. CHECK FOR VOLTAGE AT POWER SOURCE AND LOCK TERMINAL STRIP.
- IF A LOCK IS OPERATING ON DC VOLTAGE CHECK FOR REVERSED POLARITY. REFER TO FIG "A" PAGE 2.
- PERFORM THE COIL RESISTANCE CHECK. REFER TO BOTTOM OF THE PAGE 3.

LOW HOLDING FORCE

- WRONG INPUT VOLTAGE
- VOLTAGE SELECT JUMPERS SET WRONG
- ARMATURE MOUNTING TOO RIGID

- VERIFY INPUT VOLTAGE MATCHES JUMPER SETTING. SEE TOP OF PAGE 2.
- VERIFY THAT JUMPERS MATCH INPUT VOLTAGE. SEE TOP OF PAGE 2.
- CHECK ARMATURE MOUNTING FOR FREE PIVOTING AND FULL CONTACT BETWEEN THE MATING SURFACE OF THE LOCK AND ARMATURE.

MAGNET OVERHEATS AND / OR DRAWS EXCESS CURRENT

- LOCK SET FOR 12V WITH 24V APPLIED
- POSSIBLE SHORTED COIL

- VERIFY THAT JUMPERS MATCH INPUT VOLTAGE. SEE TOP OF PAGE 2.
- PERFORM THE COIL RESISTANCE CHECK. REFER TO BOTTOM OF PAGE 3.

DYNASTAT BOND SENSOR NOT INDICATING DOOR SECURE WHEN CLOSED AND LOCKED (WHEN APPLICABLE)

- INSUFFICIENT SUPPLY VOLTAGE
- MAGNET AND / OR ARMATURE FACE DIRTY OR BURRED
- POOR LOCK / ARMATURE ALIGNMENT

- CHECK SUPPLY FOR PROPER INPUT VOLTAGE, SHOULD BE WITHIN 10%
- CLEAN BOTH SURFACES WITH SCOTCH BRITE TYPE CLOTH AND APPLY WD-40. CHECK FOR BURRS.
- CORRECT AS NECESSARY

DSM (DOOR STATUS MONITOR) NOT INDICATING DOOR CLOSED / OPEN STATUS (WHEN APPLICABLE)

- DSM MAGNETS NOT INSTALLED IN ARMATURE HOUSING
- POOR LOCK / ARMATURE ALIGNMENT

- REPLACE / INSTALL AS NECESSARY
- CORRECT AS NECESSARY

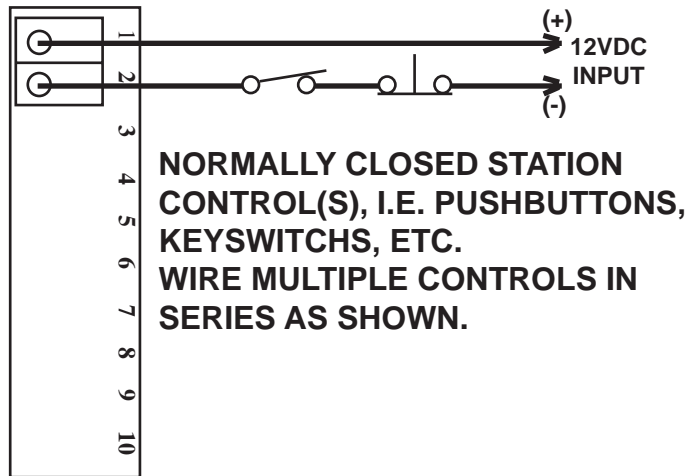
#### GENERAL INFORMATION

DynaLock 3000 and 2000 Series electromagnetic locks equipped with the LP - Low Power Option are configured to operate exclusively on 12V AC/DC input voltage. Current draw is 0.16 Amps for single models and 0.32 Amps for double models.

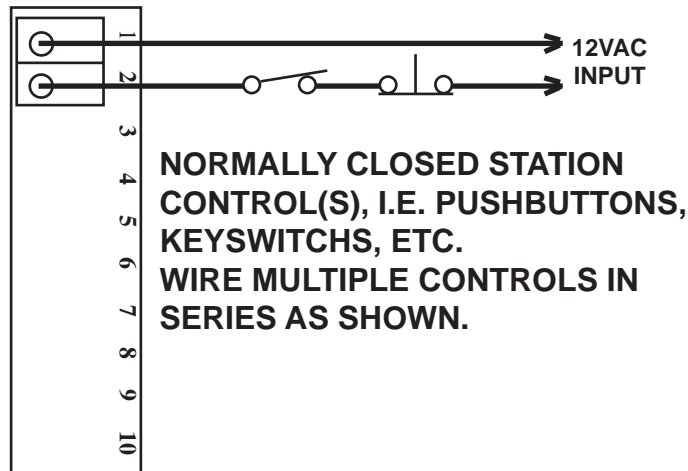
**Damage may occur if input voltage exceeds 16V AC/DC. Do not attempt operation at higher voltages.**

#### BASIC INPUT POWER WIRING

**FIG. A** 3000/2000 x LP BASIC  
12 VDC INPUT



**FIG. B** 3000/2000 x LP BASIC  
12 VAC INPUT

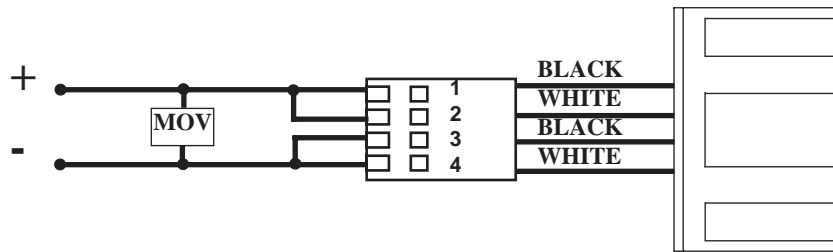




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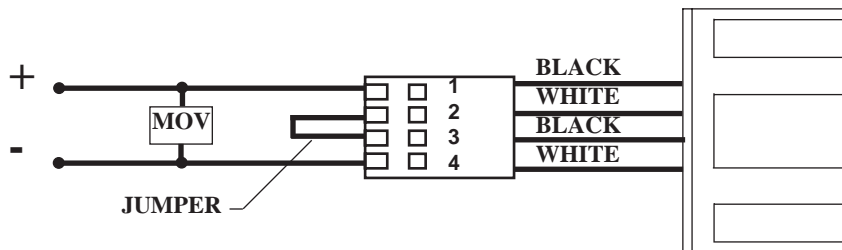
# SERIES 2000/3000 x LCB ELECTROMAGNETIC LOCK WIRING INSTRUCTIONS

## 12 VOLT DC OPERATION



**NOTE: TO PROTECT OTHER ELECTRONIC DEVICES IN SYSTEM CONNECT THE SUPPLIED MOV ACROSS THE LEADS AS SHOWN ABOVE.**

## 24 VOLT DC OPERATION



**NOTE: TO PROTECT OTHER ELECTRONIC DEVICES IN SYSTEM CONNECT THE SUPPLIED MOV ACROSS THE LEADS AS SHOWN ABOVE.**

**FOR UNITS USING THE CIRCUIT BOARD  
DISCARD THE MOV AND THIS PAGE.**