

# **MMC SERIES STEP MOTION SYSTEMS**

## **WITH MS 4.0 DRIVERS**

### **(FOUR AMP COIL DRIVERS)**

OPERATION AND INSTALLATION MANUAL

SECTION 1: MMC DRIVER CASE

**THE MOTION GROUP** SERVICE CENTER  
800-424-STEP  
MOTION GRP@AOL.COM  
PO BOX 669 CLOVIS, CA 93613-0669 TEL: 559-325-2727 FAX: 559-325-7117

**General Description.** The MMC 4.0 (4 amps/coil) series is identical to the MMC 2.0 (2 amps/coil) series with the following exceptions:

- 1) The unit supports 4 amps of motor current; factory pre-set is 4 amps.
- 2) The unit may require additional cooling across the heat-sink or mounting the bottom of the enclosure to a heat-sinking surface.
- 3) The unit supports Full, Half, Quad, and Octal stepping angle.
- 4) All units are Auto-Park (AP); park power is pre-set to 50% of the current adjustment dial. It is not necessary to de-select a motor to prevent over-heating as with the MMC 2.0 series.
- 5) **Current and Step Angle Setting. POWER-OFF WHEN SETTING !**  
 Remove controller card only as directed ! Place MMC unit upside-down with the connectors to the front:
  - A) Remove the bottom to access the controller and amplifier cards; remove only the nine 4/40 hex-head (front and two sides) and three (rear) screws only.
  - B) Disconnect only the two (or six) pin card power connector (upper-right).
  - C) Remove the rear only controller card mounting screws; two each 4/40 hex; two front posts are hinged.
  - D) Fold controller card and cables forward (tip up rear edge; max of 45 degrees) to expose amps. It should not be necessary to un-plug any other cables.

If required, adjust the blue pot located on the amplifier card edge to reduce output current as required; pot is normally set to 4.0 amps; full CW.

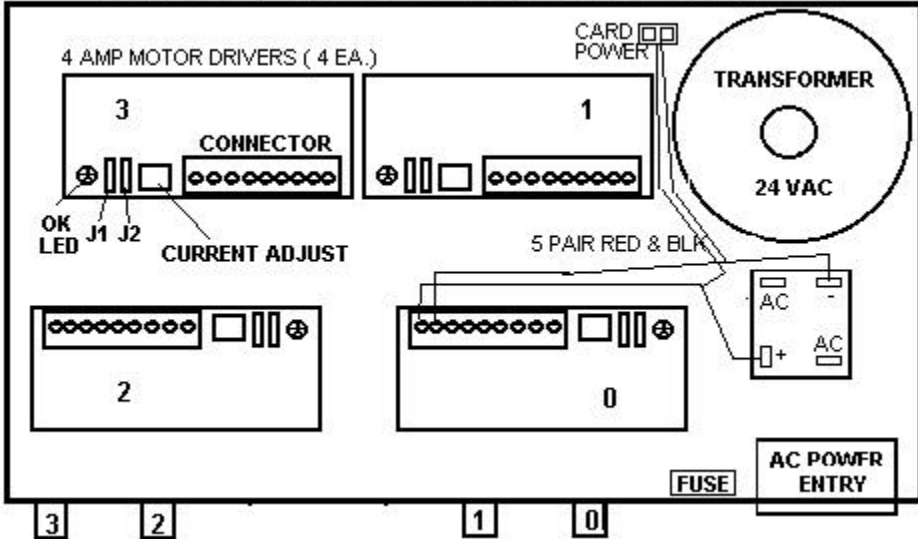
Select the two jumper blocks for the desired step angle per the following:

<u>JP1</u>	<u>JP2</u>	<u>STEP ANGLE</u>	
OPEN	OPEN	1/8 STEP	(norm. not used; call Service Center)
OPEN	JUMP	1/4 STEP	(factory pre-set)
JUMP	OPEN	1/2 STEP	(not recommended)
JUMP	JUMP	1/1 STEP	(used for hi-speed or hi-power only)

**NO OTHER SERVICE IS POSSIBLE. CALL THE TMG SERVICE CENTER FIRST !**

# MMC 4.0 SMD ASSEMBLY TOP VIEW

BOTTOM VIEW - LID REMOVED AND CONTROLLER FOLDED BACK



MMC POWER SUPPLY WIRING DIAGRAM

