

**SMD 4.0
STEP MOTION DRIVE SYSTEM**

**TST 4.0
STEP MOTOR POWER FEED**

**DSD 4.0
DIGITAL SERVO SYSTEM**

OPERATION AND INSTALLATION MANUAL

SECTION 1: SMD DRIVER CASE

SECTION 2: MS DRIVER CARD

FOR QUICK REFERENCE - REFER TO THE APPENDIX SECTIONS

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General Description. The SMD, TST, and DSD 4.0 series units are identical to the 2.0 series with the following exceptions:

- 1) The units support 4 amps of motor current; factory pre-set is 4 amps.
- 2) The units may require additional cooling or mounting of the system to a larger metal surface if bottom lid or motor is too hot to touch (75°C). See Appendix C.
- 3) The units support Full, Half, Quad (factory pre-set), and Octal step.
- 4) The units are Auto-Park™; park power is pre-set to 50% of the current adjustment dial. Ignore references to the PARK signal in manual.

Current and Step Angle Setting. To remove the lid (bottom) and access the amplifier card which is mounted to the lid:

- 1) Remove the 10 each hex-head screws.
- 2) Carefully lift and fold lid to label side of box so as not to disturb the wiring harness.
- 3) Adjust the blue pot, located on the card edge, to the desired output current as required; pot is normally set to 4.0 amps.

Select the two jumper blocks (pins) for the desired step angle per the table.

<u>JP1</u>	<u>JP2</u>	<u>STEP ANGLE</u>
OPEN	OPEN	1/8 STEP (* see note)
OPEN	JUMP	1/4 STEP (factory pre-set, best for smoothness)
JUMP	OPEN	1/2 STEP (best for high inertia loads)
JUMP	JUMP	1/1 STEP (best for full speed and full power)
(* depending on motor, may not produce equally spaced steps)		