SID 2.5 MICROSTEPPING MOTION SYSTEM

(DEMO SYSTEM ONLY)

OPERATION AND INSTALLATION

MANUAL

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The SID 2.5 Mircostepper Demo System is a prototype microstepping driver card (1.7 x 2.0") mounted in a stock SID motion controller chassis. The unit's operation is covered in the SID documentation with the following exceptions:

1)   The current adjust is located on the prototype card. The SID lid must be removed   to adjust this pot which is a percentage control allowing adjustment of 0 to 100% of   the 2.5 amp maximum of the driver. Refer to Appendix C.

2)   The hardware Limit Loop limit system is jumpered out. The driver can only be   disabled (free) by software control; see B 0 function.

3)   The step angle selects are controlled by User Bits B 2 & B 3.

B2	B3	STEP ANGLE
HI	HI	OCTAL STEP
LO	HI	QUAD STEP
HI	LO	HALF STEP
LO	LO	FULL STEP

4)   The motor voltage for the driver is +24 VDC.

To operate the SID 2.5 Demo System:

1)   Connect a motor per drawing on front panel.

2)   Turn on power, system will run a "Auto-Start" demonstration program.

3)   The test consists of a series of motions; CW & CCW. The 1st test is in Octal step   angle followed by the same test in Quad, then Half, and then Full. When finished   the system will turn off motor power (B0 led is out) and go not busy (BZ led is out).

To operate the system as a host computer controlled motion system or to change the self-test Auto-Start program, refer to the SID manual and enclosed Demo Disk; INSTALLATION AND OPERATION SECTION.