

**BULLETIN 1394-SJT<sub>xx</sub>-A****HIM POT FUNCTION**

APPLICATION NOTE

APRIL 30, 1998

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**PURPOSE**

The purpose of this document is to provide a description of how to configure the 1201-HA1 or HA2 HIM POT function as a battery box for 1394-SJT<sub>xx</sub>-A.

**INTENDED AUDIENCE**

This application note should be used by personnel familiar with the hardware components and programming procedures necessary to operate 1394-SJT<sub>xx</sub>-A and 1201-HAx HIM's.

**APPLICATION CONSIDERATIONS**

This should be used under controlled conditions where there is known to be ample machine or motor motion available to accommodate the input commands.

**FOR MORE INFORMATION**

**1394-SJT<sub>xx</sub>A** Bulletin 1394 Digital AC Multi-Axis Motion Control System  
User Manual  
Publication 1394-5.0

**1201-HAx** Bulletin 1201 Remote I/O Communications Module  
Use MNL/GRAPHIC PROG TERM 3.XX  
Reference Manual, Publication 1201-5.0

**1394 ScanPort Analog Input Parameters****Datalink Parameters**

058 Rem Data In:P1 // "analog" data from port 1 (in drive cover). HIM pot is mapped to this

060 Rem Data In:P2 // "analog" data from port 2 (bottom connector in drive)

062 Rem Data In:P3 // "analog" data from port 3 (accessible via expander box attached to port 2)

064 Rem Data In:P4 // "analog" data from port 4 (accessible via expander box attached to port 2)

066 Rem Data In:P5 // "analog" data from port 5 (accessible via expander box attached to port 2)

068 Rem Data In:P6 // "analog" data from port 6 (internal adapter boards, N/A in present 1394)

**1394 Velocity Parameters****Linkable Velocity *destination* parameters to datalink Parameters**

204 A0:Vel Ref Whole //Axis 0 Digital Velocity Reference

205 A1:Vel Ref Whole //Axis 1 Digital Velocity Reference

206 A2:Vel Ref Whole //Axis 2 Digital Velocity Reference

207 A3:Vel Ref Whole //Axis 3 Digital Velocity Reference

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## **PROGRAMMING CONFIGURATION**

Refer to the HIM Programming Flow Chart shown on page C-13 & 14 in the 1394-5.0 January 1998 User Manual. (Jan 97 info shown on the following pages for reference only)

To configure Axis 0 to be controlled using the POT (analog or digital) on the HIM:

- 1.) Disable All Axes.
- 2.) Using the Up/Down Arrows choose Link. Press Enter
- 3.) Using the Up/Down Arrows choose Set Links. Press Enter
- 4.) Using the Up/Down Arrows scroll until parameter 204 is displayed for the left hand value
- 5.) Press the Sel key to move to the right hand value. Using the UP/Down keys scroll until parameter 58 is displayed. Press enter.
- 6.) Press ESC Twice.
- 7.) Press the Up/Down Arrows choose Program Mode. Press Enter
- 8.) Press the Up/Down Arrows choose System Lvl Parm. Press Enter,
- 9.) Press the Up / Down Arrow chose Configuration. Press Enter
- 10.) Press the Up/Down Arrow until A0: Mode Sel is displayed. Press SEL.
- 11.) Press the Up/Down keys until Dig Vel is displayed. Press Enter.
- 12.) Press the Esc key once
- 13.) Press the Up/Down Arrow choose Setup. Press Enter
- 14.) Press the Up/Down Arrow choose Dig Cmd Mode. Press Sel.
- 15.) Press the Up/Down Arrow choose Unipolar. Press Enter.
- 16.) Press Esc four times to return to the status display.

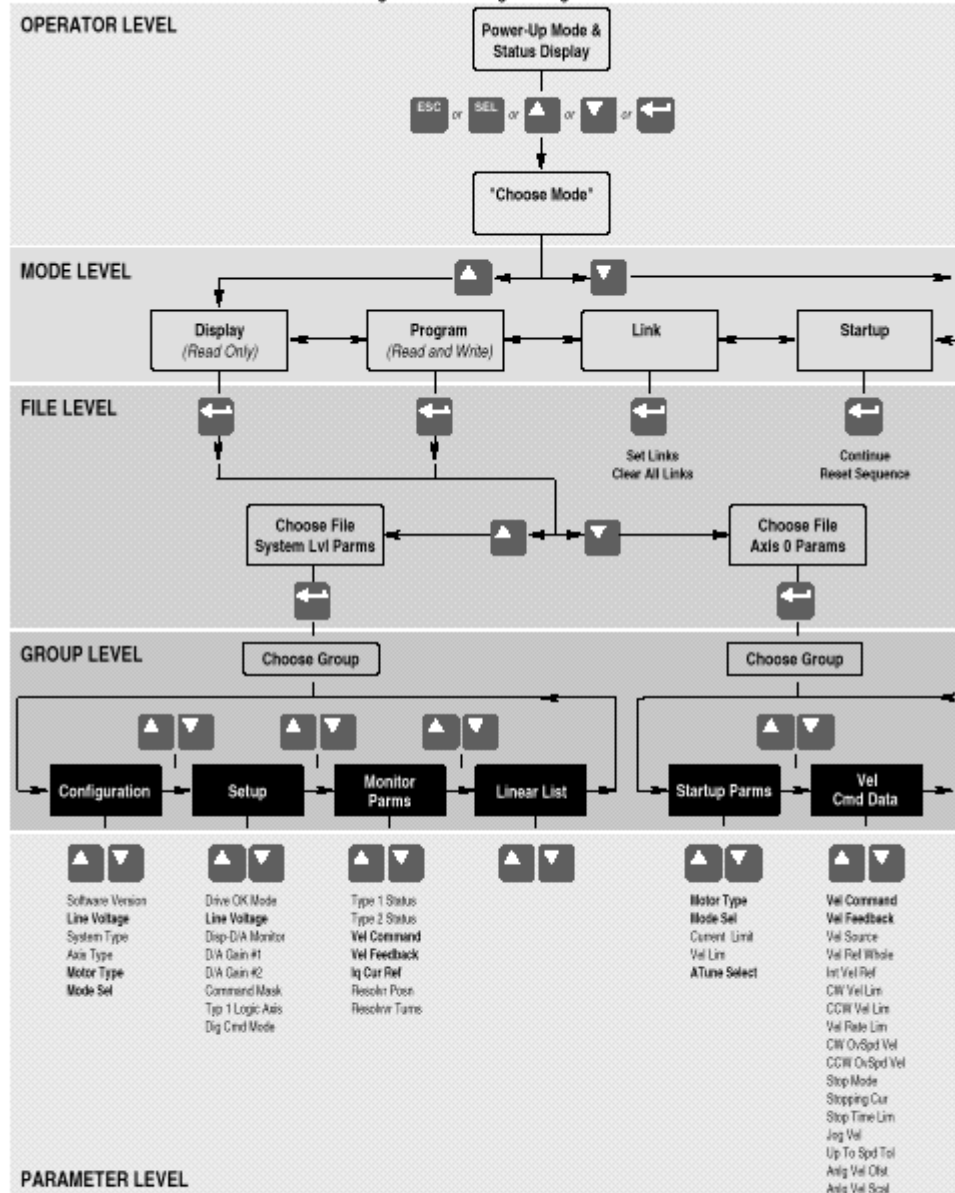
The Analog or Digital Pot will now control the velocity for Axis 0. To change the direction press the dir key on the HIM.

### **Programming variations :**

To configure a different axis to respond to the HIM Pot:

- 1.) Go to the links menu and clear the link to parameter 204 by pressing the Sel key to move over to the right hand value and press the Up/Down Arrow until 0 is displayed and press enter. NOTE: If this link is not cleared and a second link is established from parameter 58 (or controlling port) to another axis, both axes will respond to the command if both are enabled.
- 2.) For axis 1 control repeat steps 3-10 and 15. Substituting parameter 205 for 204.
- 3.) To use ScanPort 2 (bottom of drive port) substitute parameter 60 for 58.

Figure C.4 HIM Programming Flow Chart1



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Figure C.5

