

INPUT/OUTPUT DEVICE  
USER REFERENCE SHEET  
FOR

**TERMINAL TRANSITION ADAPTER PCB**

**Part No. 46S02892-0010    20 position**

**Part No. 46S02892-0020    26 position**

**Part No. 46S02892-0030    34 position**

**For use with MicroTrac DSD Drive**

**INTRODUCTION**

The Terminal Transition Adapter PCBs allow the customer to make input and output wiring connections for the Local I/O boards without opening the MicroTrac DSD power cube. There are landings provided for customer wiring. Up to a single 16 AWG wire can be landed per termination point. The Terminal Transition Adapter PCBs come in different configurations to allow ribbon cables with different conductor counts (20, 26 or 34) to interface them to appropriate connectors on the Local I/O boards.

Each Local I/O board can be used with up to 2 or 3 Terminal Transition Adapter PCBs. They are designed for snap fit in a mounting track (MagneTek part no. 43T01862-\*) on a panel near the MicroTrac DSD power cube; with the addition of a Transition Board Mounting Bracket (MagneTek part no. 43T01861-0000), a mounting track with up to the maximum 6

Terminal Transition Adapter PCBs can be mounted directly on the side of the power cube (see Figure 1).

**INPUT / OUTPUT DESCRIPTIONS**

The types of signals connected to each Terminal Transition Adapter PCB are dependent upon which Local I/O board it is connected to.

**INSTALLATION AND HOOKUP**

This board is factory installed on the drive and should require no further connections to be made to it. However, if it should become necessary to install the board in the field, then the following steps should be taken:

- \* Part number suffix indicates length:
  - 0800 = 8" long;
  - 1100 = 11" long;
  - 1500 = 15" long.

## **WARNING**

HAZARDOUS VOLTAGES CAPABLE OF SEVERE INJURY OR DEATH MAY BE PRESENT WITHIN CABINET. BEFORE OPENING CABINET DOOR, DISCONNECT AND LOCK-OUT INCOMING POWER.

## **CAUTION**

TO AVOID DAMAGE TO ELECTRONIC COMPONENTS, DO NOT MAKE ANY CONNECTIONS WITH POWER APPLIED. USE PROPER ELECTROSTATIC DISCHARGE (ESD) PROCEDURES WHEN HANDLING PRINTED CIRCUIT BOARDS.

1. Turn off incoming power.
2. Locate where this board is to be physically mounted. Refer to the System Schematic for the location. If the board is to be installed on the side of the power cube, but no bracket is present, use the appropriate (#6) hardware to attach the bracket to the power cube chassis. Also use appropriate hardware to attach the mounting channel to the bracket.
3. If replacing an existing board, then disconnect all cables and wires to the board from their connectors. Then unmount the existing board.
4. Snap this board into place in the mounting track.
5. Connect all of the cables and wires

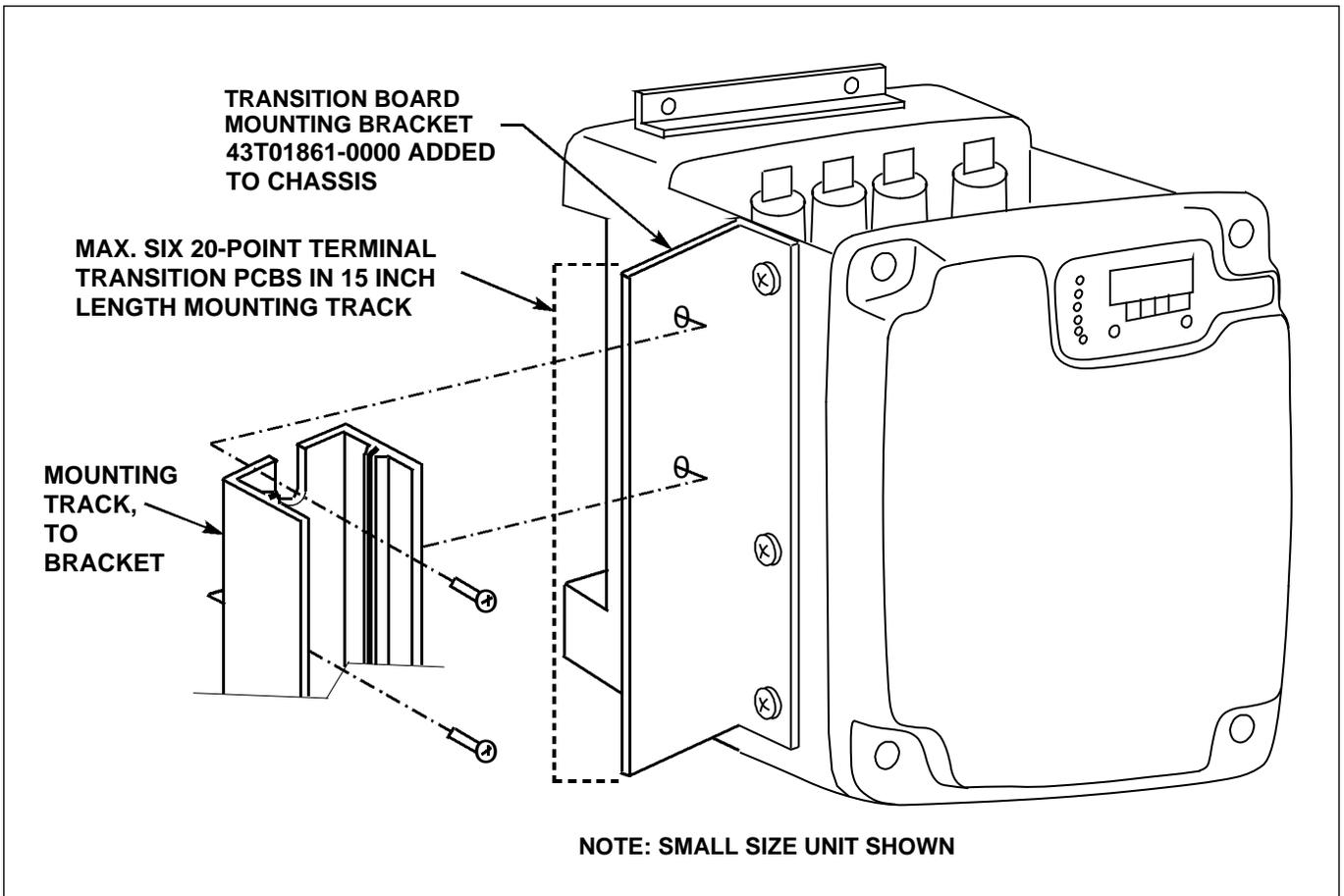
per the Interconnection Diagram. The header (J1) on each Terminal Transition Adapter PCB must be interfaced to the appropriate connector on one of the Local I/O boards by installing a ribbon cable (MagneTek part no. 46S02425-XXXX; consult MagneTek for correct part number suffix, determined by Transition board location relative to the Power Cube).

Refer to the equipment Interconnection Diagram for detailed wiring information. Ensure that wire size and disconnect devices conform to the installation contractor's drawings and to all applicable codes. Observe the following:

- A. In long cable runs, take care to prevent excessive voltage drop.
- B. Separate the leads used for speed reference, feedback, and other low level signals from those used for the motor armature, field and AC power. Do not run these two groups in the same conduit or wire trough.
- C. Provide shielded and twisted leads as indicated on the schematic and Interconnection Diagrams. Connect all shields on shielded wire to system common (not ground) on one end only. Twisted shielded pair wire should be used for long runs.

## **SETUP**

There are no switches, jumpers, or potentiometers to set up.



**Figure 1. Alternate Mounting Location for Terminal Transition Adapter PCBs on the MicroTrac DSD Power Cube**