



# 1334-MOD-B2

## Remote Output Digital Voltmeter

**Description** The 1334-MOD-B2 provides a remote (3) digit LED display which is representative of the nominal AC output voltage of the Drive. The circuitry of the Output Digital Voltmeter looks at the DC Bus/100 and “Q” pulse signals, which are a function of pulse width modulation, to synthesize the AC output voltage.

The Output Digital Voltmeter provides a relative but not absolute indication of AC output voltage. Factors which can affect the accuracy of the digital display include:

- AC line voltage variations which cause change in the DC Bus voltage.
- Motor loading.
- Regulation and loading of an external distribution transformer which is supplying input power to the Drive.

### IMPORTANT

Both the Output Volts/Amps Display Board & the Output Digital Voltmeter Interface Board have been pre-calibrated at the factory. Field recalibration is not possible nor required.

**The 1334-MOD-B2 Remote Output Digital Voltmeter may only be used with:**

- **Bulletin 1334 5-10 HP 460V Series A Drives**
- **Bulletin 1334 3-10 HP 460V Series B Drives**
- **Bulletin 1334 15-50 HP 460V Series A Drives**
- **Bulletin 1335 12 & 16 Amp Variable Torque Drives**
- **Bulletin 1335 22-96 Amp Variable Torque Drives**

If a local Bulletin 1334 or 1335 460V display is required, the 1334-MOD-B Local Output Digital Voltmeter Option Kit must be used.

### Each 1334-MOD-B2 Option Kit Includes:

- (1) Remote Output Volts/Amps Display Board, P/N 50478
- (4)  $\frac{1}{4}$ " ,  $\frac{1}{4}$ -Turn Standoffs, P/N 201104
- (1) Display Board Mounting Bracket, P/N 122356
- (1) Display Board Bezel w/ Plastic Display Cover, P/N 201484
- (2) #6 Flat Washers, P/N 235415
- (2) #6 Lock Washers, P/N 239453
- (2) 6-32 Hex Head Nuts, P/N 226270
- (1) Output Digital Voltmeter Interface Board, P/N 50479-001
- (4)  $\frac{3}{4}$ " ,  $\frac{1}{4}$ -Turn Standoffs, P/N 201106
- (1) 3-10 HP/12 & 16 Amp Ribbon Cable Assembly, P/N 41441-001
- (1) 15-50 HP/22-96 Amp Ribbon Cable Assembly, P/N 41441-002
- (3) Adhesive Backed Ribbon Cable Clamps, P/N 200391
- (1) Ribbon Cable Caterpillar Grommet, P/N 120613

When installed as directed, the Remote Output Volts/Amps Display Board will maintain NEMA Type 1 enclosure ratings. The enclosure rating of the Drive will not be affected by the Output Digital Voltmeter Interface Board.

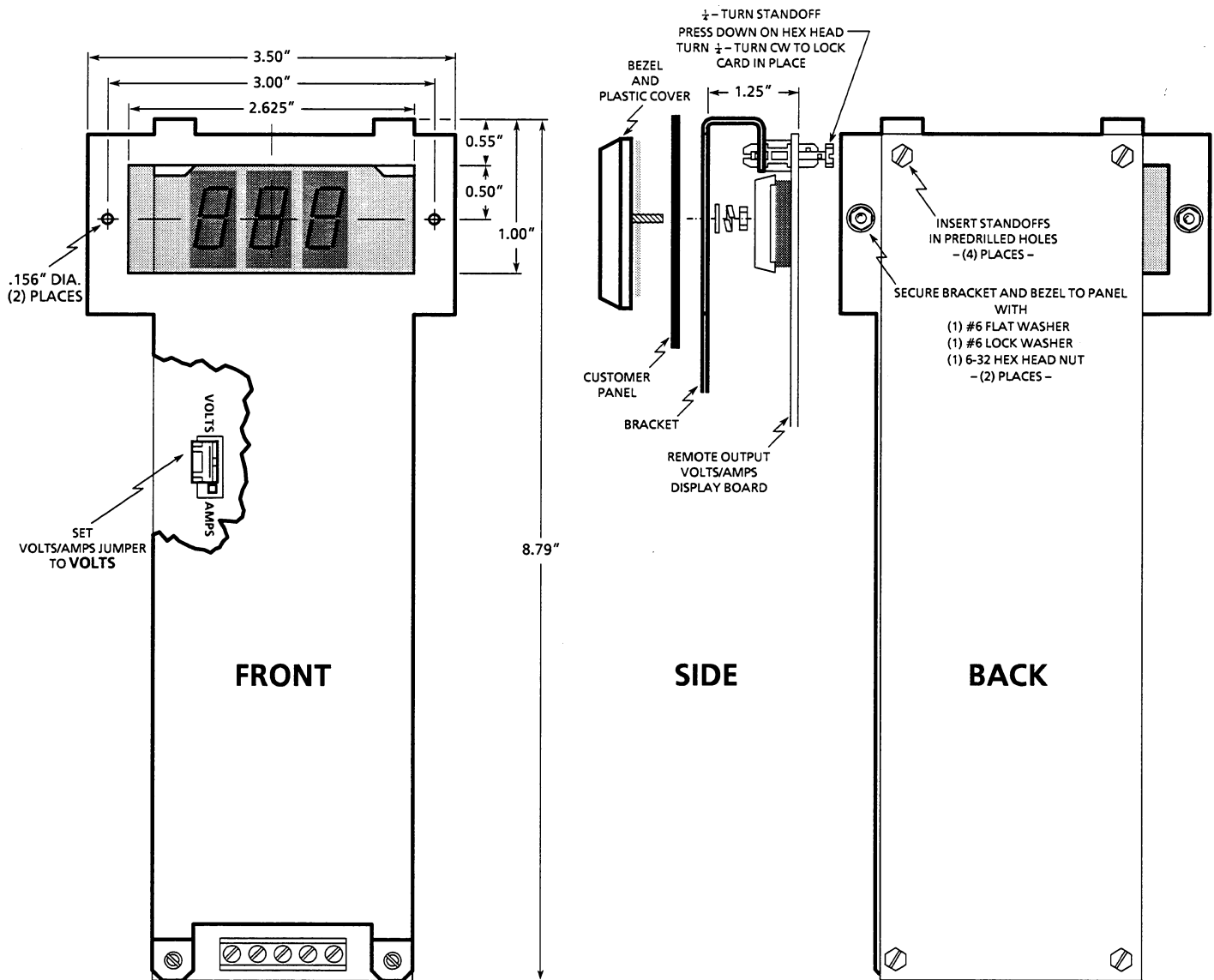
Installation



**WARNING**

Only personnel familiar with the Drive and its associated machinery should plan or implement the installation, startup, and adjustment of MOD kits. Failure to comply may result in personal injury and/or equipment damage.

To guard against personal injury, always remove power to the Drive at the disconnect device and ensure that DS1 is not lit when boards or wires are being installed or connected. Refer to the instruction manual for your Drive for LED location.



**Remote Output Volts/Amps Display Board, Bracket, & Bezel Installation**

- Bulletin 1334 5-50 HP 460V Series A Drives -
- Bulletin 1334 3-10 HP 460V Series B Drives -
- Bulletin 1335 12 & 16 Amp Variable Torque Drives -
- Bulletin 1335 22-96 Amp Variable Torque Drives -

Installation  
(continued)

Remote Output Volts/Amps Display Board, Bracket, & Bezel  
Installation

**IMPORTANT**

Ensure that the VOLTS/AMPS jumper on the Remote Output Volts/Amps Display Board has been set to VOLTS prior to installation. Setting the VOLTS/ AMPS jumper to Amps will cause false values to be displayed at the board.

1. Mark and cut a 1.00" x 2.625" display window into the remote panel. Mark and drill (2) .156" mounting holes into the remote panel.
2. Position the bracket, bezel, and plastic display cover on the panel and secure with the (2) #6 flat washers, (2) #6 lock washers, and (2) 6-32 hex head nuts as shown.
3. Position the Remote Output Volts/Amps Display Board on the back of the installed bracket. Install the (4)  $\frac{1}{4}$ ",  $\frac{1}{4}$ -turn standoffs and secure as shown.

Output Digital Voltmeter Interface Board Installation

**IMPORTANT**

Potentiometer R16 on the Output Digital Voltmeter Interface Board has been factory set and must not be readjusted. Readjustment of R16 will cause false values to be displayed at the Remote Output Volts/Amps Display Board.

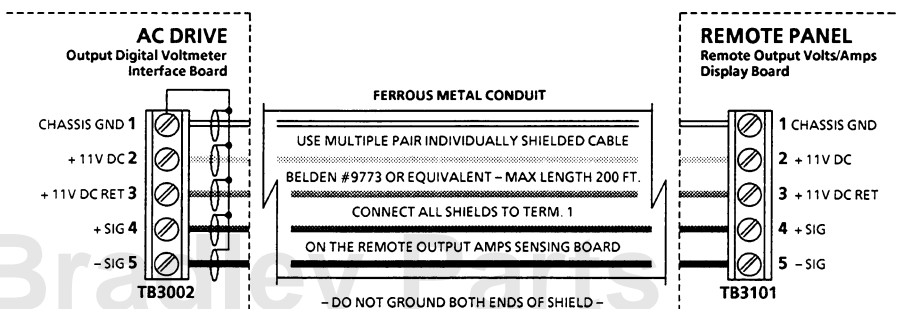
Remove the plastic display panel on the front of the hinged panel and install the (4)  $\frac{3}{4}$ ",  $\frac{1}{4}$ -turn standoffs in the pre-drilled holes. Position the Output Digital Interface Board onto the standoffs and secure as shown.

Cable Installation

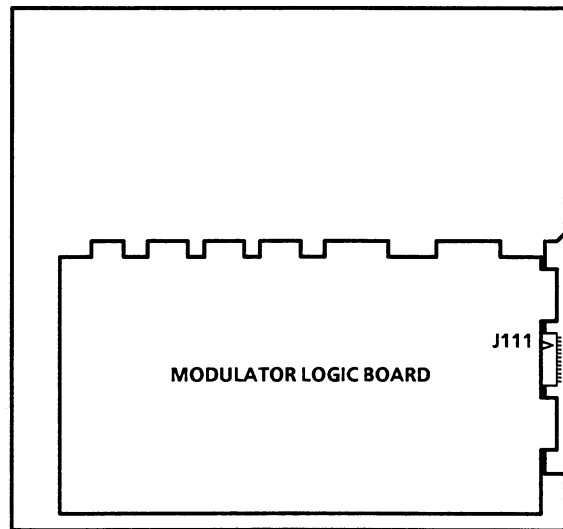
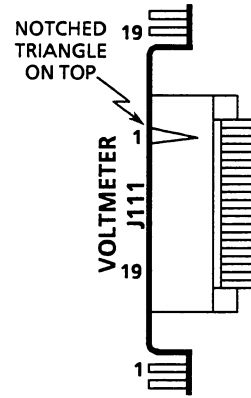
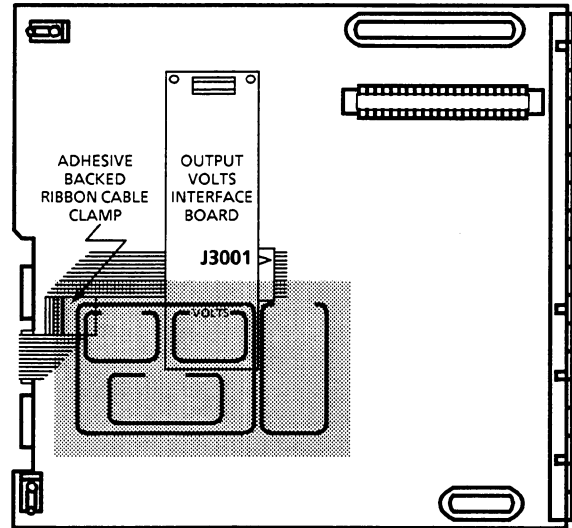
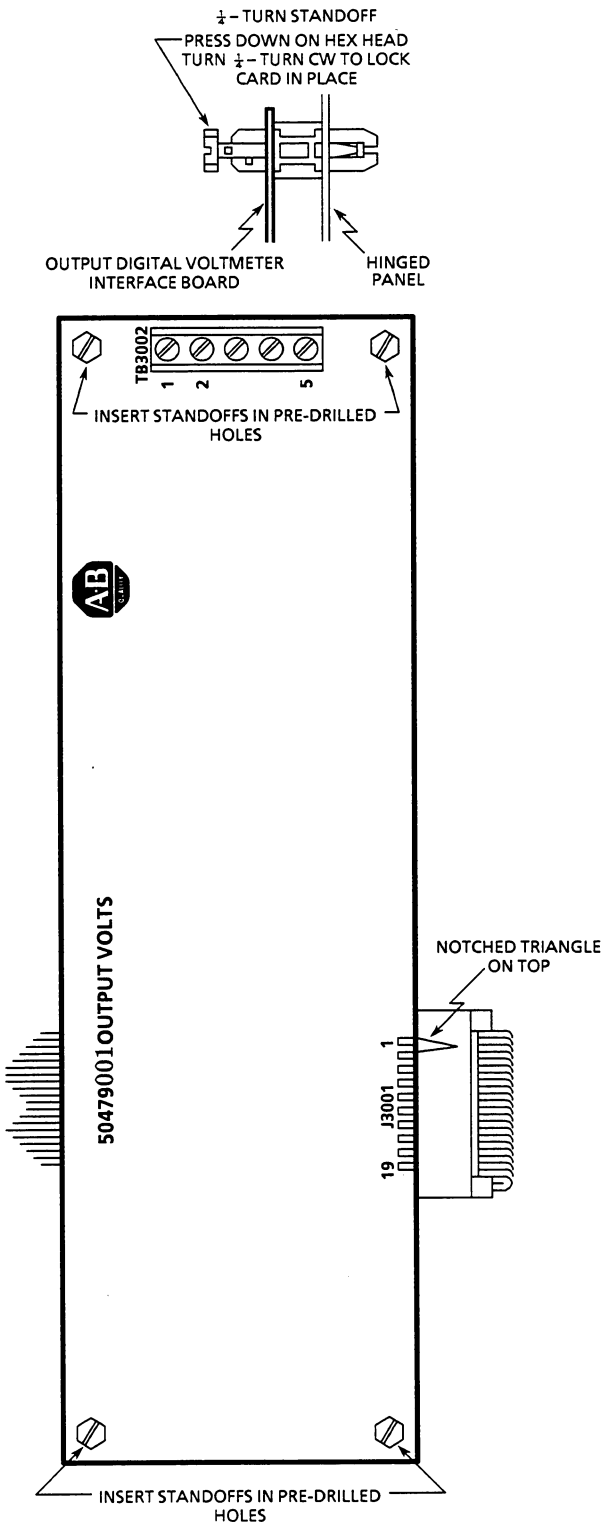
Route and connect the ribbon cable between Output Digital Interface Board connector **J3001** and Modulator Logic Board connector **J111**. Ensure that the notched triangle on both ends of the ribbon cable is as shown. For 15-50 HP Series A Drives & 22-96 Amp 1335 Drives, install the ribbon cable grommet to protect the ribbon cable against abrasion where it crosses the door edge. Secure the ribbon cable by installing the adhesive backed ribbon cable clamps as required.

Remote Output Volts/Amps Display Board  
Interconnection Wiring

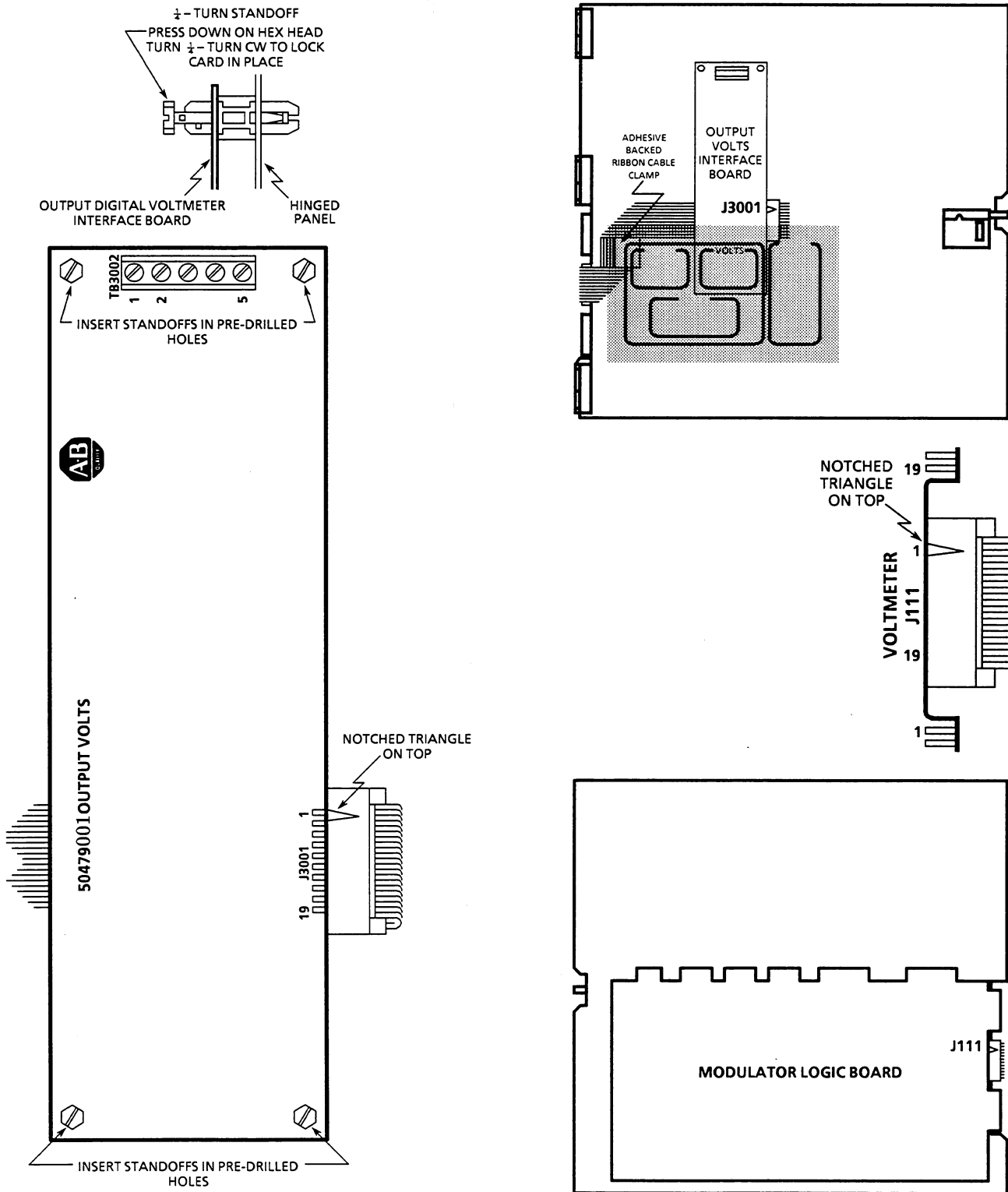
Wire for interconnections between the Output Digital Voltmeter Interface Board and the Remote Output Volts/Amps Display Board is not provided with the kit. Interconnection wiring must be run in its own separate ferrous metal conduit. Use cable ties to tie interconnection wiring to the existing main harness in the Drive as required.



Remote Output Volts/Amps Display Board Interconnection Wiring

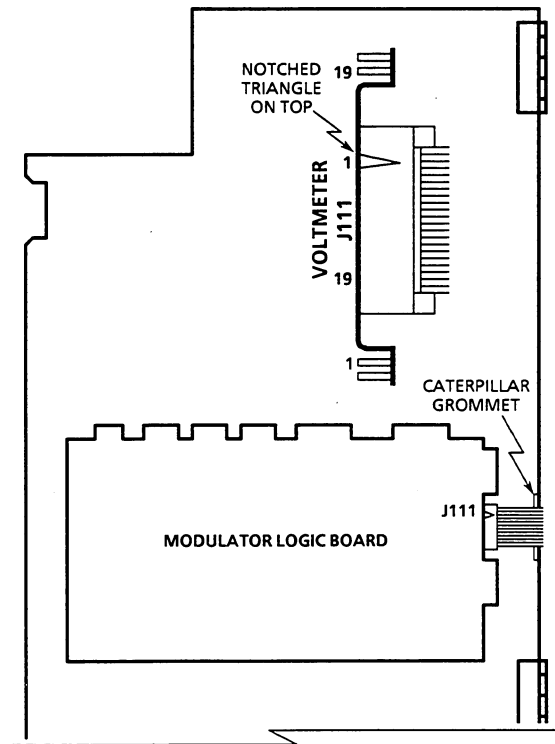
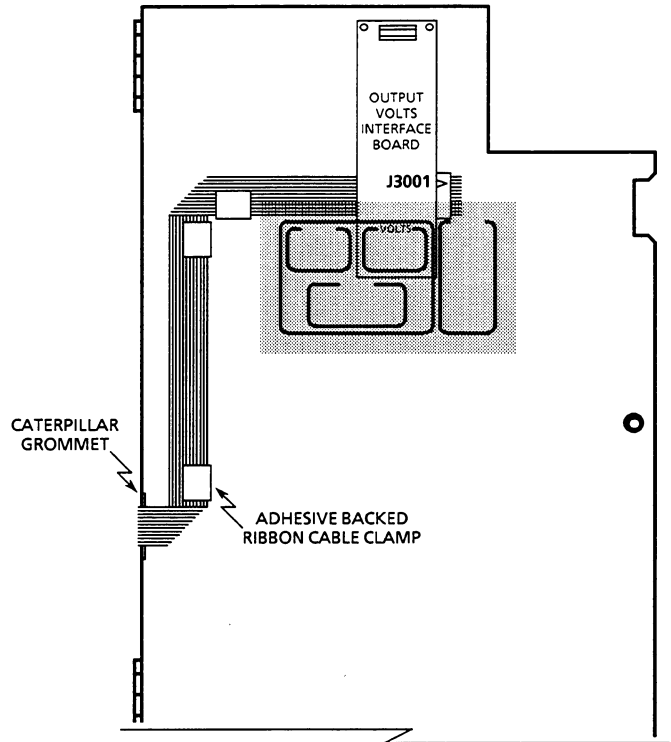
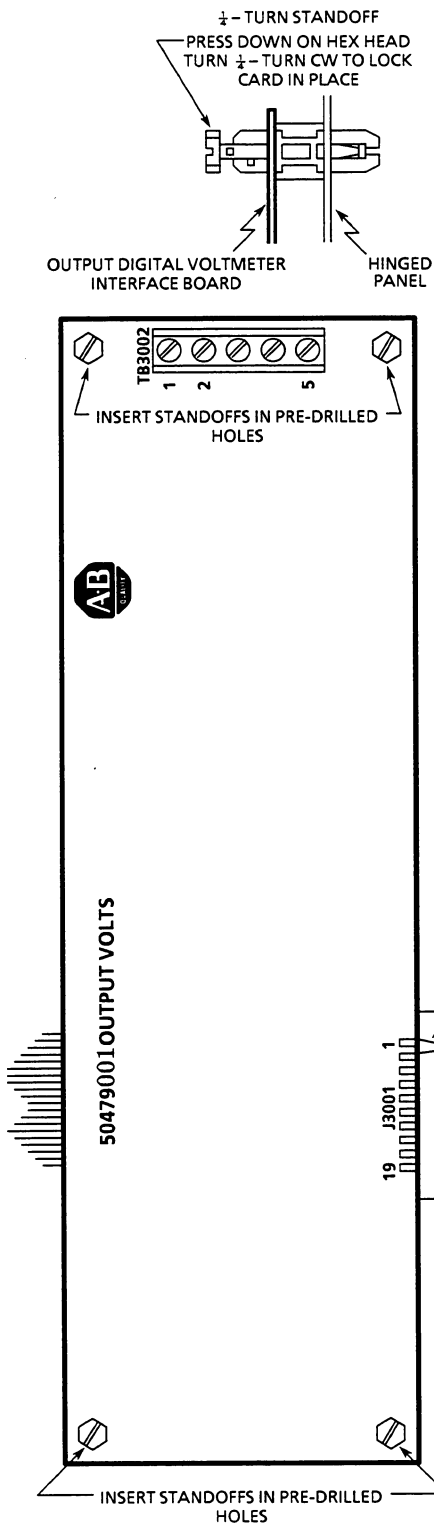


**Output Digital Voltmeter Interface Board & Cable Installation**



**Output Digital Voltmeter Interface Board & Cable Installation**

- Bulletin 1334 3-10 HP 460V Series B Drives -
- Bulletin 1335 12 & 16 Amp Variable Torque Drives -



### Output Digital Voltmeter Interface Board & Cable Installation

- Bulletin 1334 15-50 HP 460V Series A Drives -
- Bulletin 1335 22-96 Amp Variable Torque Drives -



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