

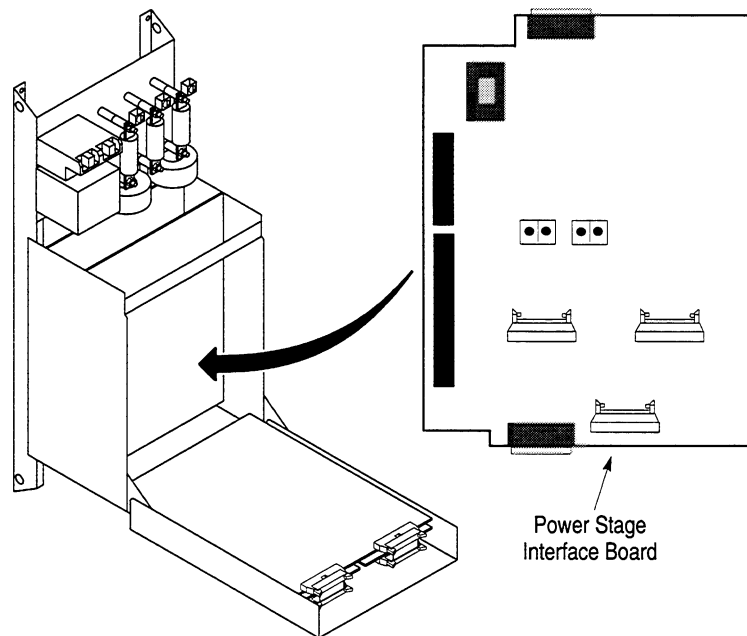


Allen-Bradley 1395 Power Stage Interface Board Replacement Kit

What This Kit Provides

This kit provides you with a replacement Power Stage Interface Board. The PSI Board is located on the front of the 2nd swing down panel in the drive (Fig 1.) The PSI Board provides an interface between the Main Control Board and the Power Bridge boards.

Figure 1.
Power Stage Interface Board Location



Where This Kit is Used

3.6 – 110 Amp 1395 Drives, Series B.

Installation Procedure

The following procedure describes the removal and replacement of the Bulletin 1395 Power Stage Interface Board.

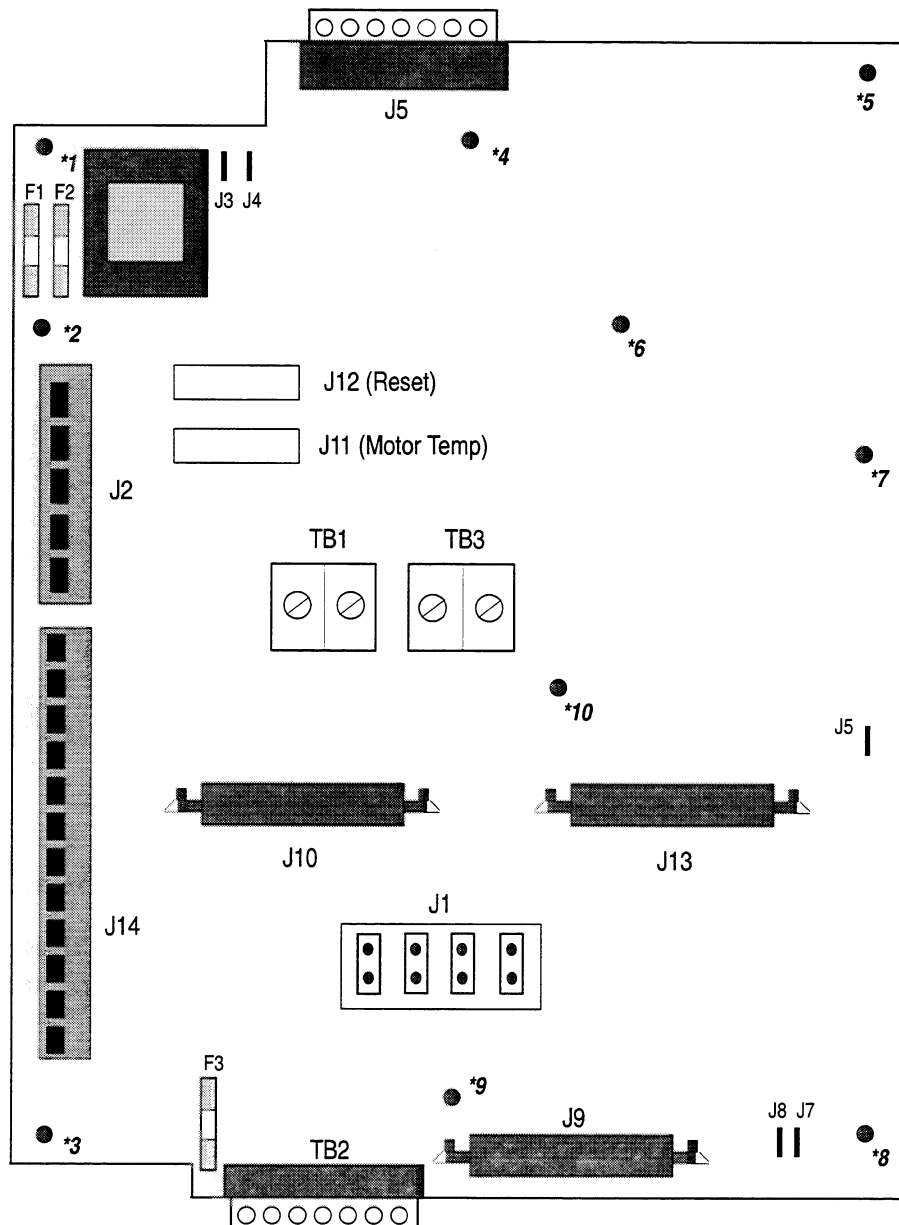


ATTENTION: To avoid an electrical shock hazard, REMOVE POWER before attempting to perform the following procedure.

1. Ensure that power to the Drive is removed.

2. The Power Stage Interface Board is located on the front side of the 2nd swing down cabinet in the 1395 enclosure as shown in Figure 1.
3. Loosen the two thumb screws at the top of the first swing down panel, and carefully swing the complete panel down to access the PSI Board.
4. Disconnect all ribbon cables and wire connectors (J2 – J14 and TB2) at the Power Stage Interface Board. All potential connections that may need to be disconnected are identified in Figure 2.

Figure 2.
Power Stage Interface Board Terminal Locations



5. Loosen the two thumb screws above the board at the upper corners which hold the board backing plate to the enclosure. Tilt the complete board/backing plate assembly up and out of the drive. Remove the board from the backing plate by pulling it up off the ten plastic standoffs holding it to the plate. The ten standoffs are identified in Figure 2 in italic numbers (#1). It will be necessary to compress the locking tab on each standoff with an instrument such as a small screwdriver as you pull the board up off the standoff.
6. Position the new Power Stage Interface Board on the backing plate and snap it down into place on the standoffs. Check to make certain that all locking tabs have snapped into position. Reinstall the backing plate/board assembly in the enclosure and secure with the two thumb screws.
7. Reconnect the various wires and cables, checking for correct placement.
8. Verify that voltage selection for the Reset and Motor Thermo inputs are set correctly per Table 1.A. Jumpers J11 and J12 determine whether the voltage used for the Reset and Motor Thermo inputs to the drive is 24VDC or 115VAC (refer to the settings on the old board). Both jumpers **MUST** be in the same position. Set Jumper J1 to the desired field current range. If you have further questions on setting these jumpers refer to the Chapter 6 of the Installation Manual 1395-5.40.

Table 1.A
Power Stage Interface Board Jumpers

Jumper	Position	Purpose
J11	1 – 2	24 VDC Motor Thermo Input
	2 – 3	115 VAC Motor Thermo Input
J12	1 – 2	24 VDC Reset Input
	2 – 3	115 VAC Reset Input
J1	1	4.5 to 10.6A DC Field Current Range
	2	2.0 to 4.6A DC Field Current Range
	3	0.5 to 2.1A DC Field Current Range
	4	0.15 to 0.6A DC Field Current Range

9. Remove the Burden resistors from the old board and reinstall them in the same position at TB1 and TB3 on the new Power Stage Interface Board. **IMPORTANT:** The burden resistors must go back on the same number terminal block they were removed from, as they are not identical.
10. Secure the swing down panel in the upright position, and close the cover.
11. Reapply power and check the Drive for proper operation.



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