



# Bulletin 1395

## Feedback Board Replacement Instructions

- Description** The primary function of the Feedback Board is to provide scaling and transfer of feedback signals coming from power bridge devices being sent to the Power Stage Interface and eventually to the Main Control Board. Figure 1 illustrates the major hardware points on the board.
- Installation** The following procedure describes the removal and replacement of the Feedback Board.



**WARNING:** 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 Feedback Board is located below the panel containing the Adapter Boards. It can be accessed without removing other boards and components.
3. Disconnect the ribbon cable from the Power Stage Interface at J1 (Refer to Fig. 1).
4. Disconnect all wires leading to the screw terminals on TB1 (Refer to Fig. 1).
5. If burden resistors are installed at TB2 and TB3, remove them and reinstall on the new replacement board.
6. Loosen the 4 screws securing the board to the panel, noting the board orientation. Remove the board.
7. Position the new Feedback Board on the panel and secure.
8. Reconnect the various wires and cables, checking for correct placement. Verify correct connections have been made using Table 1-1.
9. Verify motor field current jumper J1 on the Feedback Board is in the proper location per table 1-2. Obtain the motor full field current from the motor nameplate. Obtain the Drive current rating from the Drive nameplate (listed as MAX. DC OUTPUT-ARMATURE). The position of J1 is determined by both the Drive current rating and DC Shunt field current rating. Use the Drive current rating to select the column in Table 2-1 and the field current to select J1 position.
10. Check the Drive for proper operation.

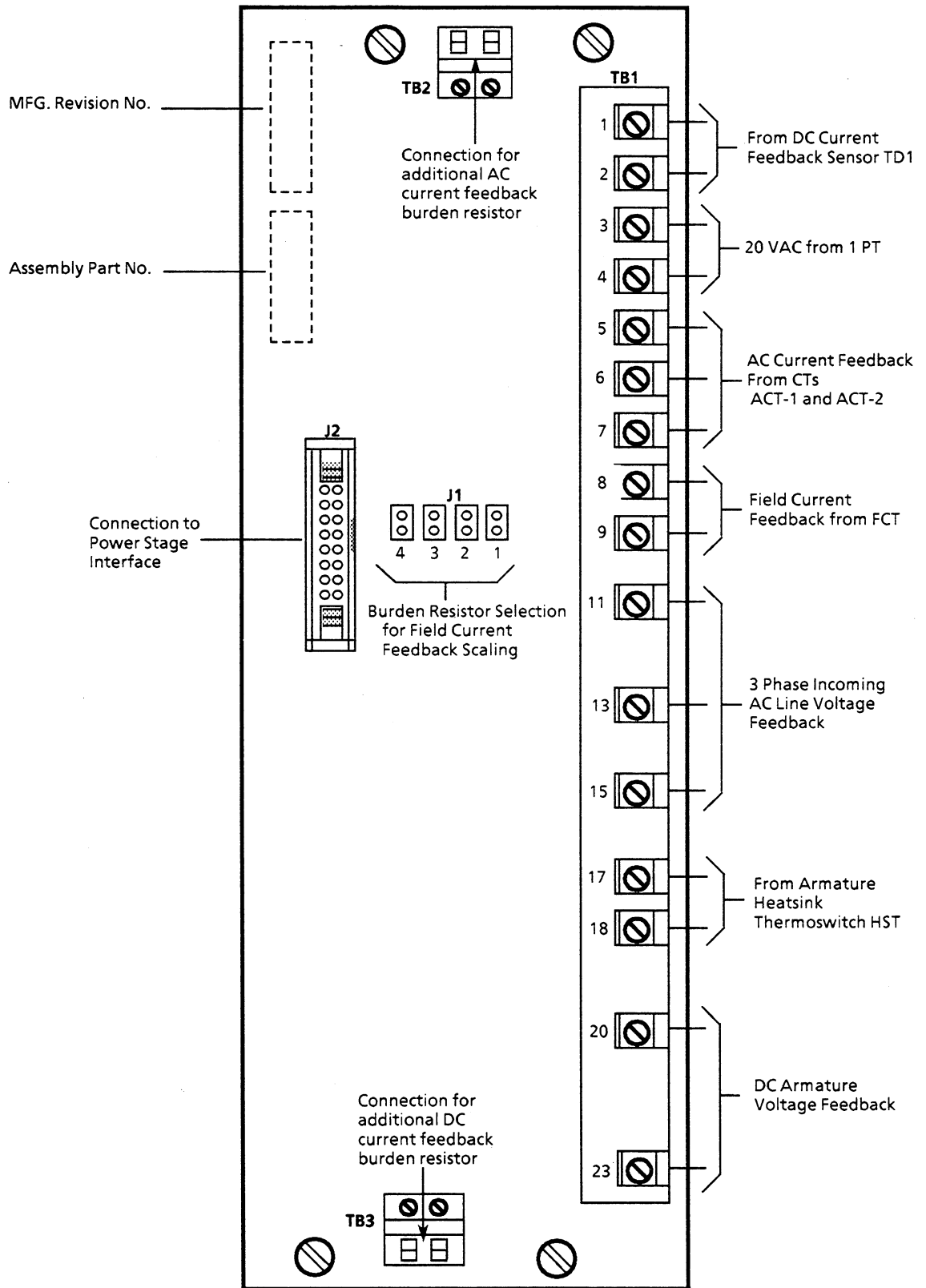


Figure 1. Feedback Board Overview

**Table 1-1. Feedback Board Connections**

CONN	TYPE	PURPOSE
TB1	16 TERM SCREW	Hard wiring connections to power bridge feedback devices as shown on Figure 4-5.
TB2	2 TERM SCREW	Connection for AC current feedback burden resistor
TB3	2 TERM SCREW	Connection for DC current feedback burden resistor
J2	16 PIN RIBBON	Connection to Power Stage Interface

**Table 1-2. Field Current Jumper, J1**

J1 Jumper	DRIVE DC CURRENT RATING 3.6 - 80 ADC	DRIVE DC CURRENT RATING 81 - 345 ADC	DRIVE DC CURRENT RATING 346 - 980 ADC
1	4.5 to 10.6 ADC	9.1 to 21.2 ADC	18.3 to 42.4 ADC
2	2.0 to 4.6 ADC	4.1 to 9.2 ADC	8.6 to 18.4 ADC
3	.5 to 2.1 ADC	1.1 to 4.2 ADC	2.3 to 8.7 ADC
4	.15 to .6 ADC	.4 to 1.2 ADC	1.0 to 2.4 ADC



**Motion Control Division**