



# 1395 1–30 HP; 230VAC & 2–60 HP; 460VAC Power Board Replacement

## Instructions

### General

These instructions will provide you with the information necessary to correctly install a replacement Power Board in a Series B 1395 Drive. Replacement Power Boards now have revised Field Bridge connection points that must be carefully noted when installing the new model board.

### Safety Precaution



**ATTENTION:** To avoid a shock hazard and unintended actuation of controlled equipment, assure that all power to the drive has been disconnected and locked out before servicing the 1395 Drive or removing the Power Board.

### Removal Sequence

1. Remove Power to the Drive.
2. Swing down the front panel which holds the Main Control Board & adapter boards to gain access to the PSI Switcher board. Remove the PSI Switcher board to gain access to the Power Board.
3. Remove all connections from the Power Board.



**ATTENTION:** This board contains ESD (Electrostatic Discharge) sensitive parts & assemblies. Static control precautions are required when installing, testing, servicing or repairing this assembly. Component damage may result if ESD control procedures are not followed. If you are not familiar with static control procedures, refer to Allen–Bradley publication 8000–4.5.2, Guarding Against Electrostatic Damage or any other applicable ESD Protection Handbook.

### Installation Sequence

1. Verify that the Armature Voltage Scaling jumpers (Fig 1–2) are in the proper location per Table 1–A.

**Table 1–A**  
**Armature Scaling Jumper Selections**

Jumper	Position	Description
J27	1 – 2	300–500V DC Armature
	2 – 3	240V or less Armature
J28	1 – 2	300–500V DC Armature
	2 – 3	240V or less Armature

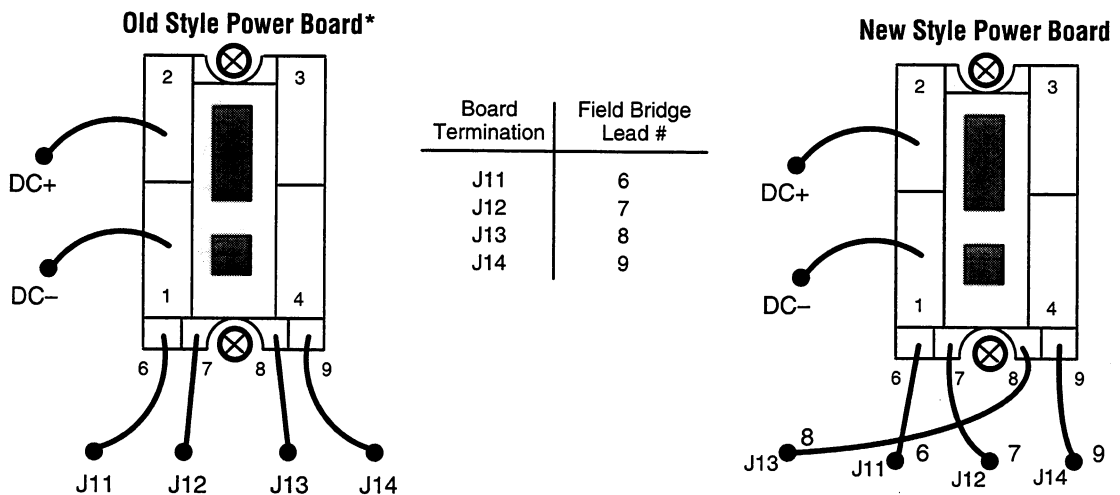
- Verify that the AC Volts Scaling jumpers (Fig 1-2) are in the proper location per Table 1-B.

**Table 1- B**  
**AC Line Scaling Jumper Selections**

Jumper	Position	Description
<b>J29</b>	1 - 2	380-460V AC Input
	2 - 3	230V AC Input
<b>J30</b>	1 - 2	380-460V AC Input
	2 - 3	230VAC Input
<b>J31</b>	1 - 2	380-460V AC Input
	2 - 3	230VAC Input

- Install the new Power Board in the drive.
- Install the leads that were removed previously from the Power Board,  
**IMPORTANT:** Take special note of the new location of the J13 termination for Field Bridge lead #8 (Figure 1-1).

**Figure 1-1.**  
**Field Bridge Connections -**



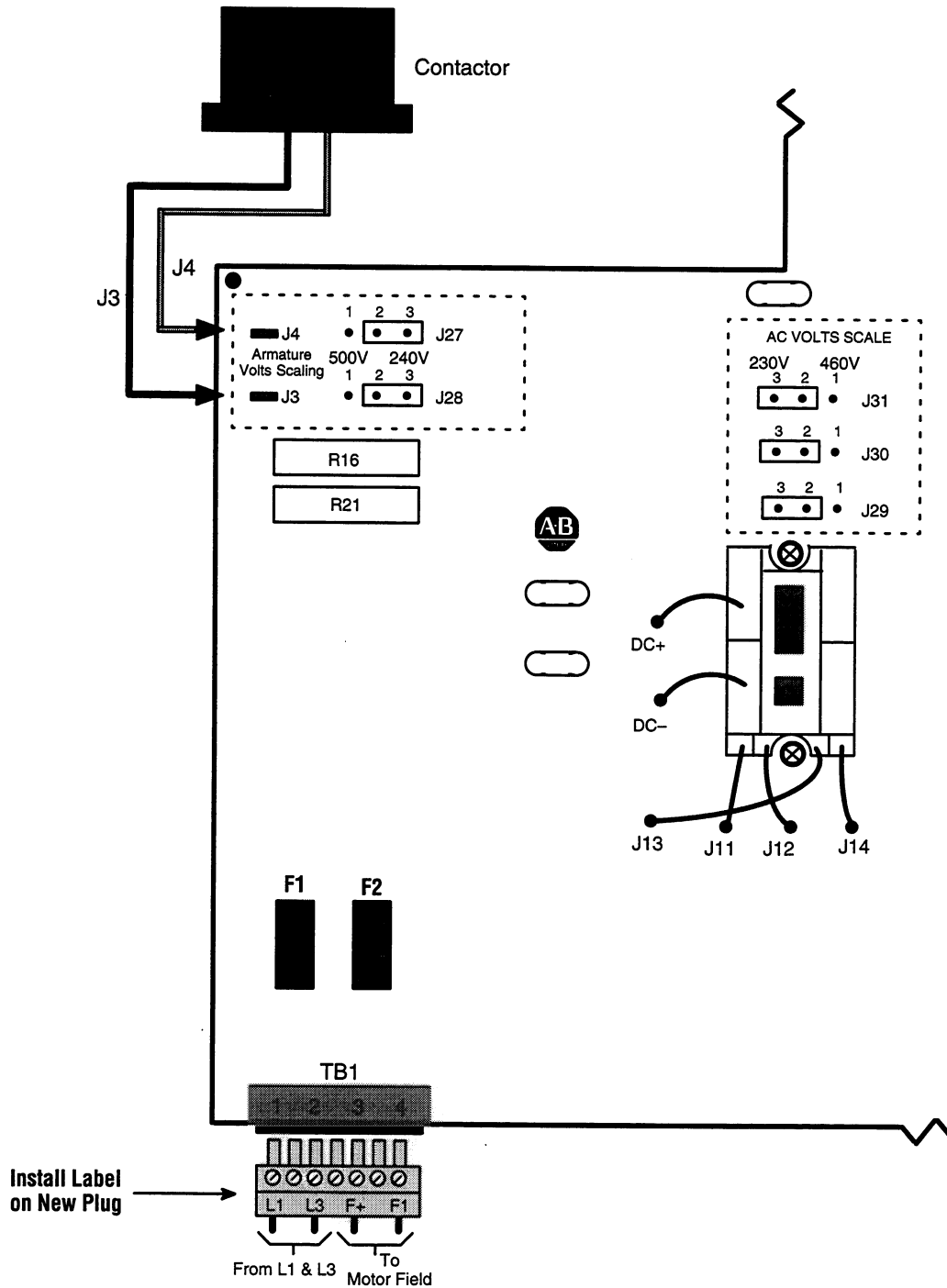
**\*Assembly Part # 142617 or 145330**

- When reinstalling the leads at the armature volts scaling connectors, check the origin of the leads carefully. The J3 & J4 leads installed at the armature volts scaling connectors originate at the contactor (Figure 1-2), NOT the thermal sensor beneath the Power Board.



**ATTENTION:** Installing the incorrect J3 and J4 leads that originate on the thermal sensor at the Armature Volts Scaling connections on the Power Board will lead to catastrophic board failure.

**Figure 1-2.  
Armature Scaling Leads**



6. Apply label to plug. Insert AC Line leads and motor field leads as shown in Figure 1.2. Insert plug into TB1.

7. Install the PSI Switcher Board and swing the front plate with the Main Control board and adapter boards up into position.

8. Close the door of the drive and the cabinet, reapply power to the Drive and test the unit for correct operation.

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