



Bulletin 1370

Conversion Kit for Series B Regulator Board and Pulse Board

These instructions describe how to properly install and set-up the Series B Regulator Board and Pulse Board. It is suggested that the user thoroughly read these instructions before any board replacement is attempted.

KIT CONTENTS:

- (1) Regulator Board, Series B (P/N 115932)
- (1) Pulse Board, Series B (P/N 115814)
- (1) Identification Label for a Series B conversion
- (1) Set of installation and set-up instructions (P/N 117664)
- (1) Ribbon Cable (P/N 115948)
- (1) RFS Series B Instruction Manual (P/N 116128)

General Information

The Regulator and Pulse Boards included in this kit contain several enhancements which will provide improved product reliability. These enhancements include circuit designs which provide a greater degree of protection against noise transients.

REMOVAL OF EXISTING BOARDS

WARNING:

Disconnect and lock out control equipment from power sources to avoid hazards of electrical shock or unintended actuation of controlled equipment.

IMPORTANT:

Existing Series A boards must be returned to the Allen-Bradley Drives Division. These boards are no longer compatible with the modified Series B Module and should not be retained as repair inventory.

Refer to the Renewal Parts section of the Series B Instruction Manual if spare boards are required.

DISASSEMBLY –

1. **REMOVE DRIVE MODULE and RFS MODULE POWER.**
 2. Remove the plastic cover by removing the #8-32 X 1/4" slotted machine screw (labeled A, Figure 1) from each side of the Module chassis.
 3. Label and remove all wires connected to terminal block TB1 of the Regulator Board. Label and remove all wires connected to terminal block TB3 of the Pulse Board. Remove the Plug from jack J10 of the Pulse Board.
 4. Remove the (2) #8-32 X 1/4" slotted machine screws from the top of the Circuit Board Assembly Rack as indicated in Figure 1. The Circuit Board Assembly Rack may now be swung down 90° to allow access to the Regulator Board (see Figure 1).
 5. Remove and discard the ribbon cable connected from jack J1 on the Regulator Board to jack J12 on the Pulse Board.
- IMPORTANT:**
Alternately apply a force to each side of the plug as it is being removed. This will aid removal and minimize circuit board stress.
6. Remove the (2) top card guide caps by removing the #8-32 X 1/4" slotted machine screws (labeled C, Figure 1) from each cap.
 7. Slide the Regulator Board out of the card guides.
 8. Swing the Circuit Board Assembly Rack upward into position and replace one (1) #8-32 X 1/4" slotted machine screw (labeled B, Figure 1) on the installed top of the Assembly Rack.
 9. Label and remove all plugs from jacks J1 through J9 and J11 on the Pulse Board.
- CAUTION:**
Failure to remove wire described in steps 10 and 13 may cause damage to the RFS module.
10. Remove the wire which connects TB2-4 to the Fuse Block on the Heat Sink Assembly (see Figure 2). Retighten screw.
 11. Remove the #8-32 X 1/4" slotted machine screw (temporarily replaced in step 8) from the installed top of the Circuit Board Assembly Rack. The Assembly Rack may again be swung down 90° to allow removal of the Pulse Board.

12. Slide the Pulse Board out of the card guides.
13. The wire previously disconnected from TB2 (step 10) must now be **completely removed** (see Figure 2). Remove the other end of the wire at the AC line input Fuse Block. Retighten screw.

INSTALLATION -

1. Slide the new Pulse Board into the Circuit Board Assembly Rack with jack J12 at the top of the Module near the fuse block (see Figure 2).
2. Swing the Assembly Rack upward into position and replace one #8-32 X 1/4" slotted machine screw (labeled B, Figure 1).
3. Attach all plugs to their corresponding jacks, verifying that they are "locked" into position.
4. Remove the #8-32 X 1/4" slotted machine screw (installed in step 2) and swing the Assembly Rack down 90°.
5. Slide the Regulator Board into the Assembly Rack with jack J1 at the top of the Module near the fuse block.
6. Replace the two top card guide caps using the #8-32 X 1/4" slotted machine screws (labeled C, Figure 1).

7. Attach plugs on the new ribbon cable between jack J1 on the Regulator Board and jack J12 on the Pulse Board. Verify that the plugs are firmly "locked" into place.
8. Swing the Assembly Rack upward into position and replace the two #8-32 X 1/4" slotted machine screws (labeled B, Figure 1) on the installed top of the Assembly Rack.
9. Re-attach all wires to their proper positions on terminal block TB1 on the Regulator Board and terminal block TB3 on the Pulse Board.
10. Replace the plastic cover, securing the #8-32 X 1/4" slotted machine screw (labeled A, Figure 1) on each side of the Module chassis.

INSTALLATION OF IDENTIFICATION LABEL

Place the Identification Label at the right of the RFS Nameplate (refer to Figure 3).

SET-UP AND ADJUSTMENT

Refer to Section 4.0 "Set-Up and Adjustment" in the 1370 RFS Series B Instruction Manual (Publication 1370 - 5.1.5) included in the kit. Perform all steps in the procedure.

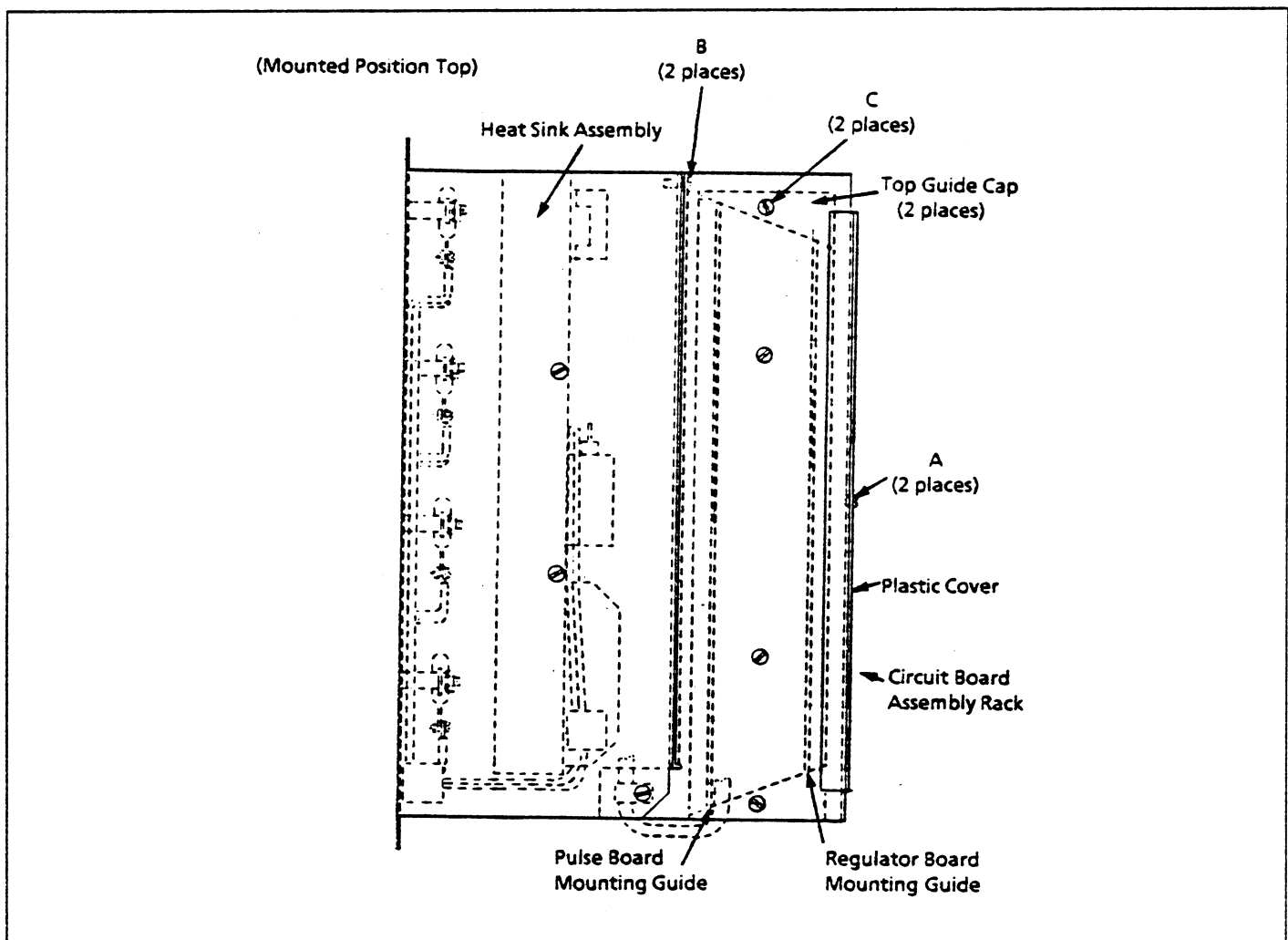


Figure 1. Left Side View of Module

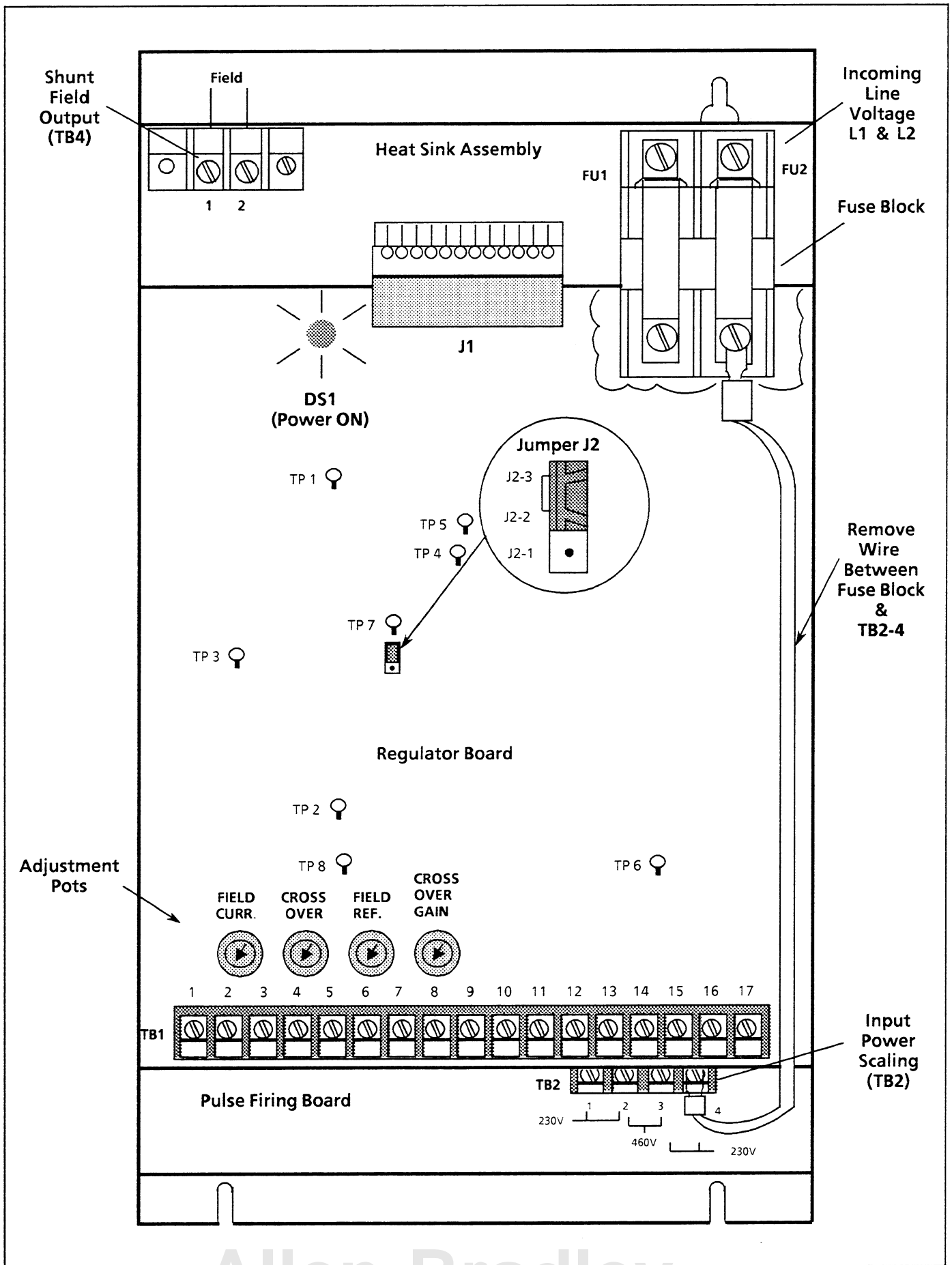


Figure 2. Wire Location on RFS Module

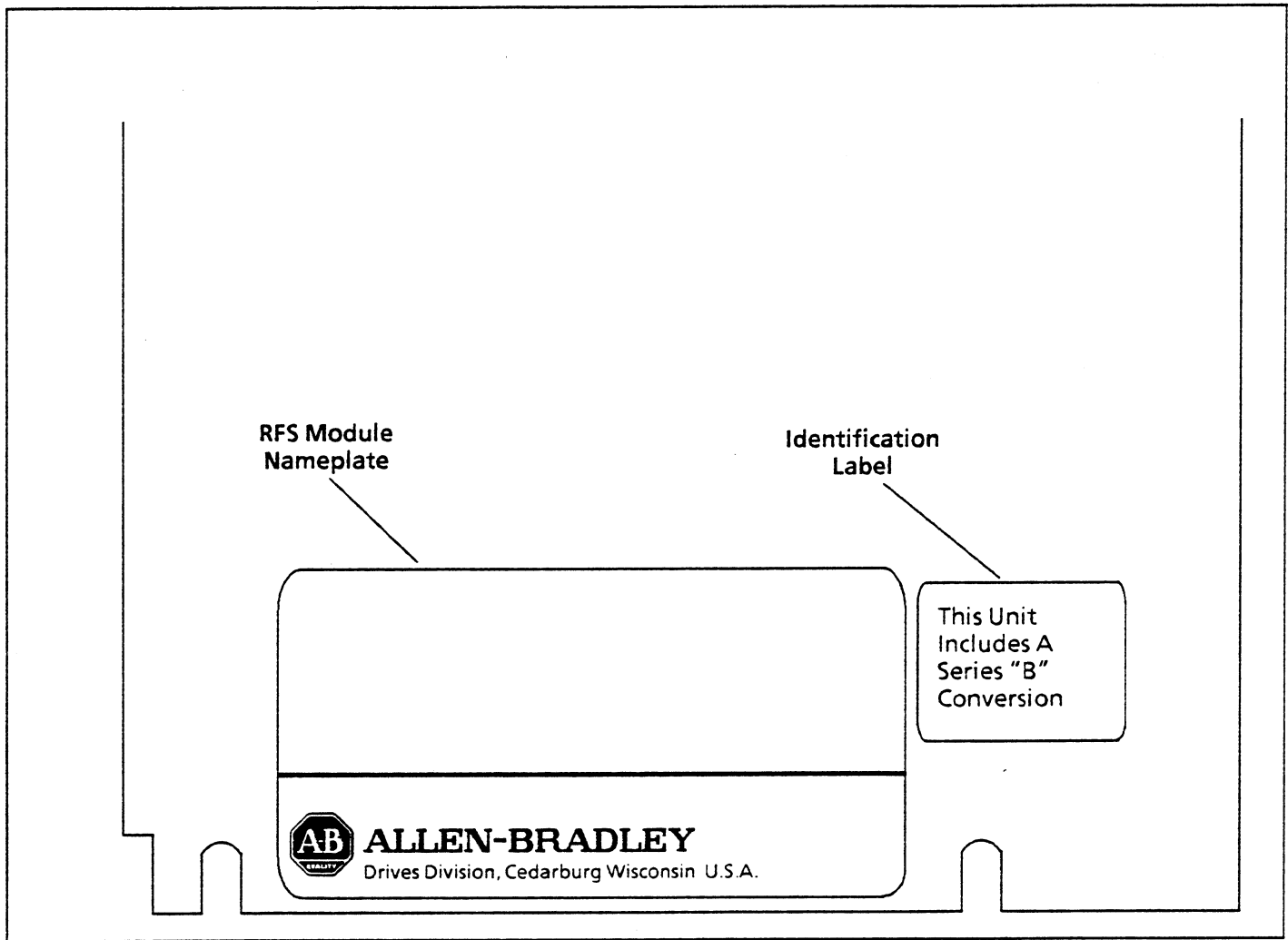


Figure 3. Location of Identification Label



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