



# SERVICE BULLETIN

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Document ID:

**SB247**

Title:

## Jack Table Surge Suppressor Installation

Affected machinery: Jack Table Platen Press

Distribution: Customers upon order

Applies to: All machines that contain the  
Banner AT-GM-13A safety relay

**If installing a new surge suppressor for the Jack Table Platen Press, follow the instructions in this service bulletin.**

**If replacing a faulty surge suppressor with the same model listed in the parts list, connect the wiring in the same configuration as the existing suppressor.**

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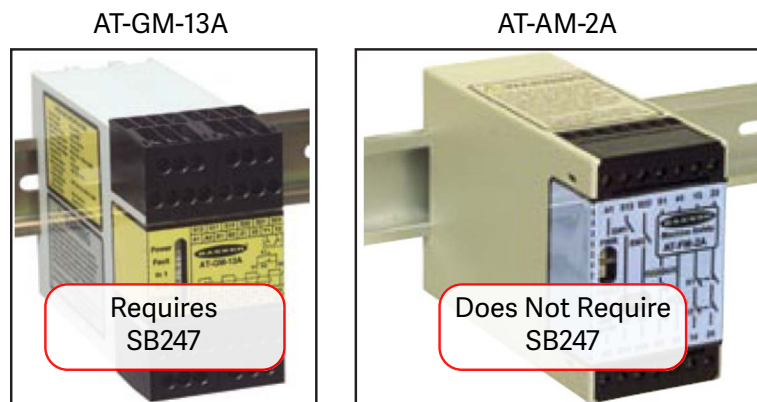
## Purpose and Scope

This service bulletin instructs how to install a surge suppressor in the main electrical enclosure of the *Jack Table*™ platen press.

This service bulletin only applies to *Jack Tables* that utilize the Banner AT-GM-13A safety relay. See Figure 1 for an image of the Banner AT-GM-13A and the previous model.

If replacing a faulty surge suppressor with the same model listed in the parts list, connect the wiring in the same configuration as the existing suppressor.

Figure 1: Banner AT-GM-13A (Left) and AT-AM-2A (Right) Safety Relays



## Overview

### Parts Included

The parts included in this kit are shown in Table 1. Please make sure all parts and supplies are present before starting the procedure.

Table 1: Parts in SB247KIT

Quantity	Description	Part #
1	Surge suppressor	504862
1	Surge suppressor end cover	504863
2 ft	16 AWG red wire	508006-02
2 ft	16 AWG white wire	508006-09
1	Labels, blank write-in	694060
1	Service bulletin document	SB247

If you have any questions, call MiTek Automation Support at 1-800-523-3380.





## Supplies Needed

- Diagonal wire cutter
- Flat blade screwdriver

## Procedure

### Electrical Lockout/Tagout Procedure

	 <b>WARNING</b>
	<p><b>ELECTROCUTION HAZARD.</b></p> <p>All electrical work must be performed by a qualified electrician.</p> <p>Verify that all power to the machine has been turned off and follow approved lockout/tagout safety procedures before performing any maintenance.</p> <p>If it is absolutely necessary to troubleshoot an energized machine, follow NFPA 70E for proper procedures and person protective equipment.</p>

Before opening the main electrical enclosure or attempting to repair or replace an electrical transmission line, lockout/tagout the machine properly. Follow your company's approved lockout/tagout procedures, which should include, but are not limited to, the steps here.

1. Engage an E-stop on the machine.
2. Turn the machine's disconnect switch to the Off position. This is usually required to open the main electrical enclosure's door.
3. Shut the power to the machine off at the machine's power source, which is usually an electrical service entry panel on the facility wall. One example of a locked-out power source panel is shown in Figure 2.
4. Attach a lock and tag that meet OSHA requirements for lockout/tagout to the electrical service entry panel.
5. Open the door to the enclosure to which you need access. Using a multimeter, verify that the power is off.

Figure 2: Lockout/Tagout on the Power Source Panel



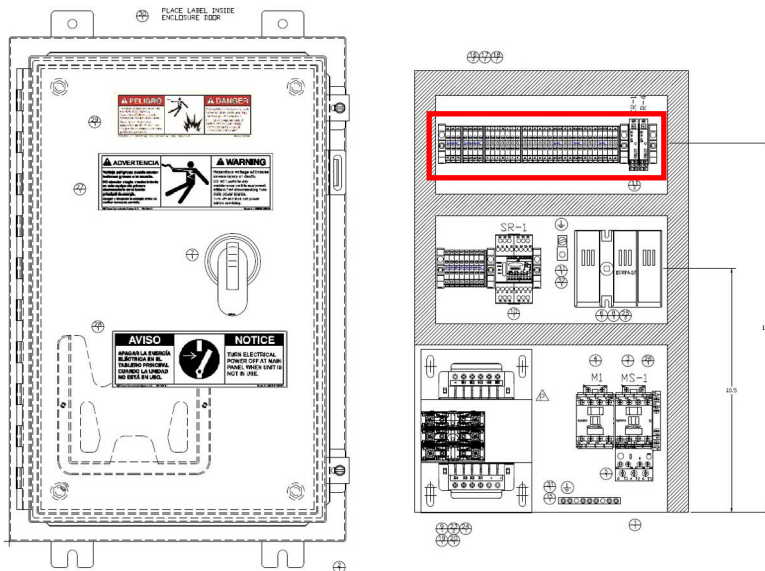
## Surge Suppressor Installation



<b>⚠ WARNING</b>	
	<p><b>MOVING PARTS CAN CRUSH AND CUT.</b></p> <p>Always verify that power to the machine has been turned off and follow approved lockout/tagout procedures.</p>

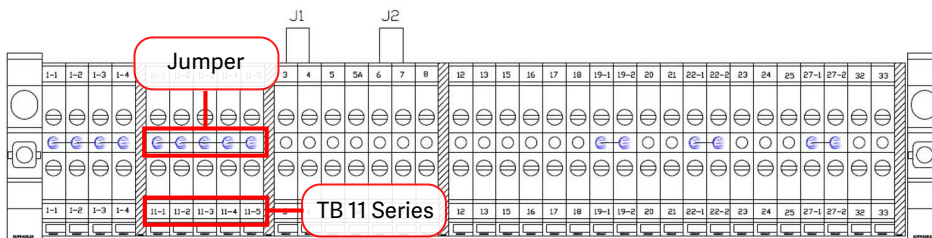
1. With power locked out as previously described, open the main electrical enclosure and locate the terminal blocks shown in Figure 3.

Figure 3: Terminal Block Location



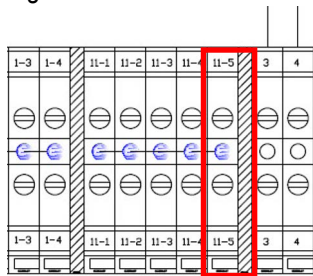
2. Use a flat blade screwdriver to remove the jumper from the TB (Terminal Block) 11 series and cut it to reduce the size from 5 to 4 blocks.

Figure 4: TB11 Jumper



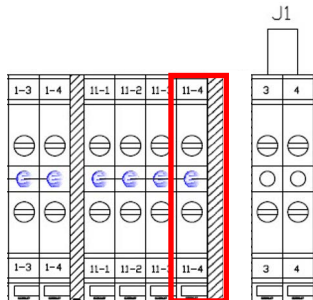
- Remove TB 11-5 and the terminal block end cover (marked by diagonal hashes in the drawing). Then, disconnect the end cover from TB 11-5.

Figure 5: Terminal 11-5



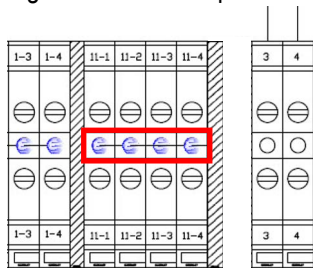
- Connect the terminal block end cover to TB 11-4.

Figure 6: End Cover Location



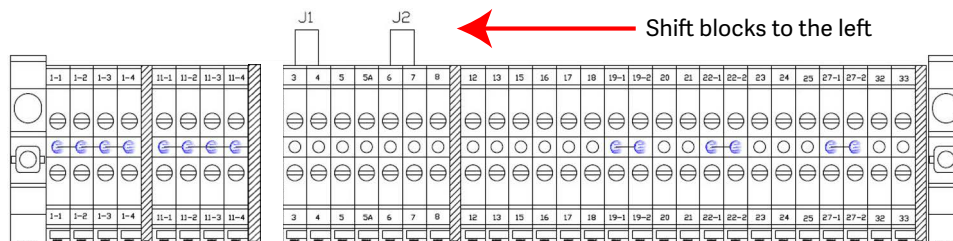
- Reconnect the reduced jumper (removed in Step 2) to TB11 Series.

Figure 7: TB11 Jumper Location



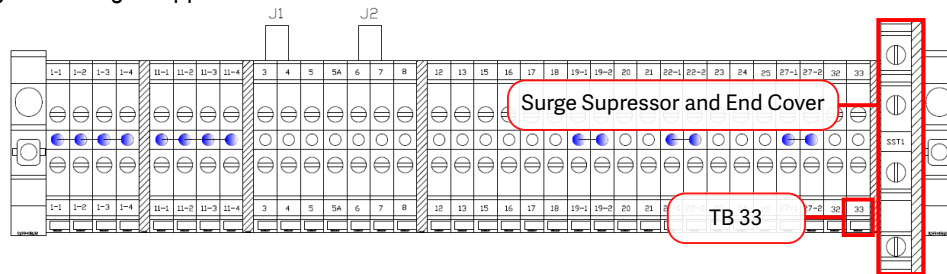
- Shift all terminal blocks to left along the DIN rails to make space for the surge suppressor at the far right end.

Figure 8: New Terminal Block Arrangement



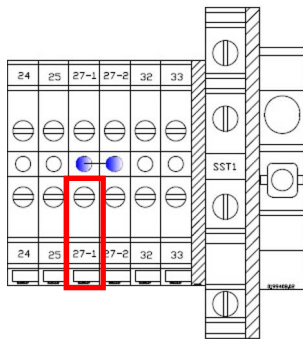
7. Install surge suppressor terminal block after TB 33 and attach the supplied end cover.

Figure 9: Surge Suppressor Installation Location



8. Disconnect the red down solenoid signal wire from TB 27-1 (bottom).

Figure 10: TB 27-1 Location



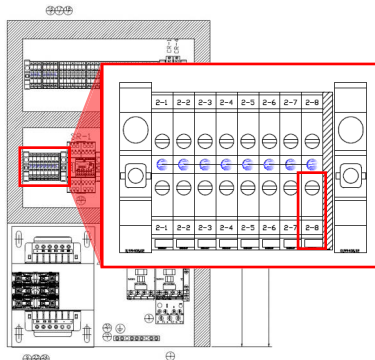
9. Verify the red down solenoid signal wire is going to the solenoid (exiting the enclosure).
10. Connect the (now) loose red down solenoid signal wire to surge suppressor terminal 1 (SST 1). The terminals are numbered on the front of the SST.

Figure 11: Surge Suppressor Terminal Locations



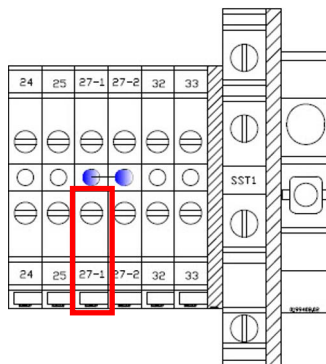
11. Locate the terminal blocks in the main electrical enclosure shown in Figure 12, and disconnect the white down solenoid neutral wire from TB 2-8 (bottom).

Figure 12: TB 2-8 Location



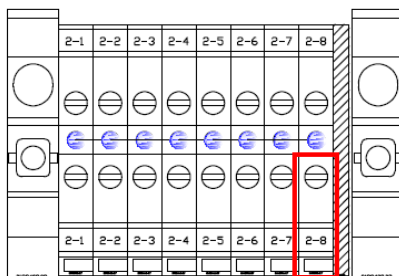
12. Connect the (now) loose white down solenoid neutral wire to SST 2 (see Figure 11 for SST locations).
13. Use the supplied red wire and wire label (27) to connect TB 27-1 to SST 3 (see Figure 11 for SST locations).

Figure 13: TB 27-1 Location



14. Use the supplied white wire and wire label (2) to connect TB 2-8 to SST 4 (see Figure 11 for SST locations).

Figure 14: TB 2-8 Location



15. Remove lockout/tagout devices and restore power to *Jack Table*.

**END OF SERVICE BULLETIN**