

8.12 COUNTER TEST AND REPLACEMENT

Test and (if necessary) replace the counter as follows:

Tools needed to test solenoid:

- 5/64" hex wrench (Allen wrench)
- *analog (needle type) volt/ohm meter

Tools needed to replace solenoid:

- 3/16" hex wrench (Allen wrench)
- medium flat-tip screwdriver
- pair of side cutters

1. Turn disconnect switch to "OFF" position. See Section 3.1.5 for location of disconnect switch.



*Note: A digital type volt-ohm meter will not work for this test

Note

Use the Illustrated Parts List in Chapter 11 of this manual as an aid in testing and replacing the counter. When you see something like "Remove back panel (202, Fig. 4)" in the following procedure, the number (202) refers to a picture of the back panel (and how the back panel is attached to the press) in Figure 4 of the Illustrated Parts List.

2. Remove back panel screws (201, Fig. 4) with 5/64" hex wrench and remove back panel (202).
3. Check very carefully for broken or loose wires in the motor starter box, especially around TB1 terminals 3 and 5 (see Figure 8.12 A). If any broken or loose wires are found, repair them and then recheck the press.

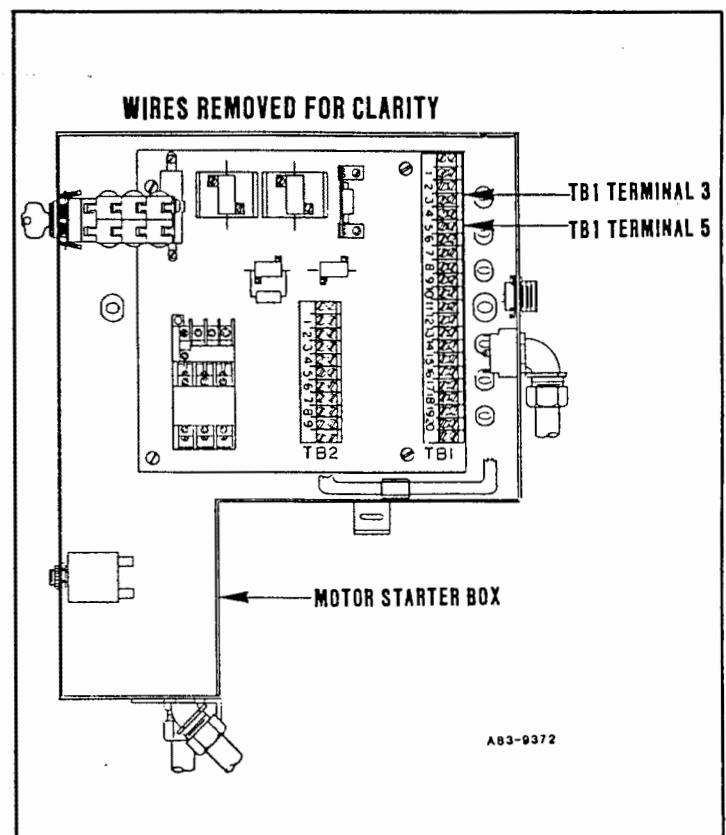


Figure 8.12 A

8.12 COUNTER TEST AND REPLACEMENT

! WARNING



* Never do live electrical tests on the press when you are alone. Always make sure someone is present to help you in case you get shocked.

* Do not touch bare electrical terminals when doing live electrical tests.

4. Turn disconnect switch to "ON" position.
5. Turn set up switch to "RUN" position.
6. Press "ON" button on control panel.
7. Use Table 8.12 A and preceding Figure 8.12 A for this step:

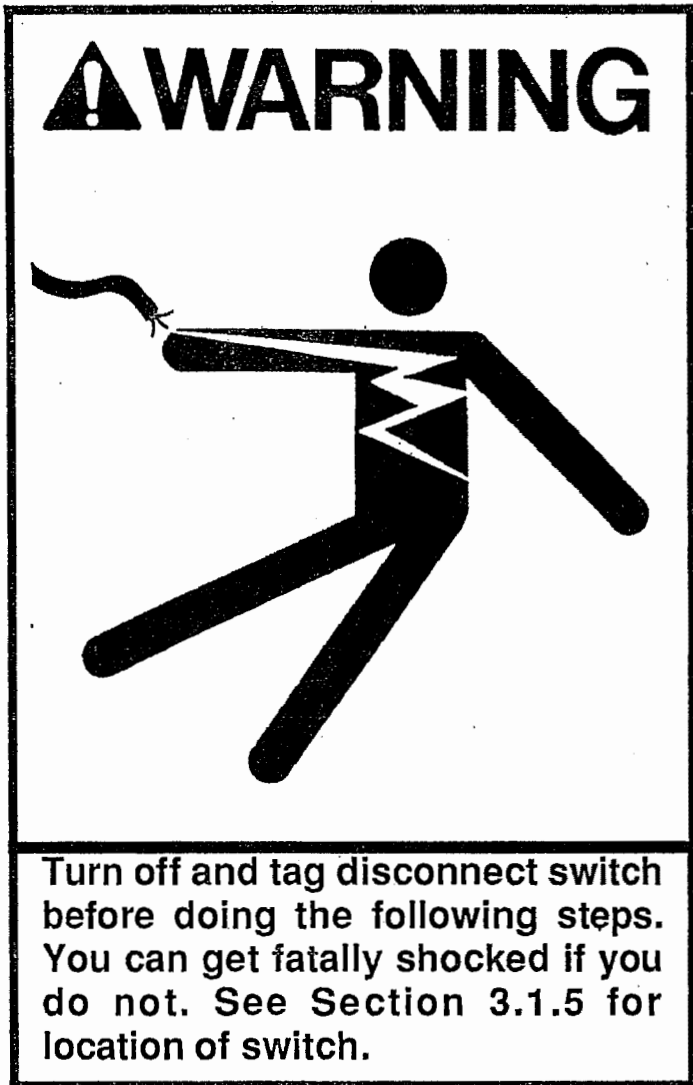
Continued on the next page.

TEST FOR:	IF:	THEN:
<p>a. A voltage surge of 10 to 20 volts DC across TB13 (ground) and TB1 5 at the same time the press is manually cycled by a second person. Make sure probes of meter contact terminals before foot switch is pressed.</p>	<p>Surge occurs and voltage drops to 0 soon after --</p> <p>Surge does not occur or if voltage surges to a particular level and stays there --</p>	<p>Replace counter according to steps 8-21.</p> <p>Reattach rear panel and replace electronics package according to steps 7-14 in Section 8.1.4.</p>

Table 8.12 A

8.12 COUNTER TEST AND REPLACEMENT

8. Turn disconnect switch to "OFF" position.



15. Pull counter retaining spring (131) down.

16. Remove counter retaining spring from counter by pulling on ends of spring.

17. Pull counter (132) out of crank guard (133)

18. Place new counter into position and secure in place with retaining spring.

19. Connect counter's wires.

20. Flip the hinged crank guard (133) down and secure in place with crank guard bolts (123) and washers (124 & 125).

21. Reattach ram guard (112) and back panel (202, Fig. 4).

9. Turn ram guard fasteners (111, Fig. 1) 1/4 turn counterclockwise (until they pop up) with screwdriver.

10. Remove ram guard (112).

11. Unscrew crank guard screws (123) with 3/16" hex wrench.

12. Flip hinged crank guard (133) up.

13. Unplug wires from counter (132).

14. Cut wire plastic holder with side cutters.