

DATA AUXILIARY SETS 801A1, 801A2, 801A3, AND 801A4 FOR AUTOMATIC CALLING, MAINTENANCE

1. GENERAL

1.01 This section is reissued to revise the text. Due to extensive revisions change arrows have been omitted.

1.02 Data Auxiliary Sets 801A1, 801A2, 801A3, and 801A4 will be referred to in this section as ACU's (Automatic Calling Units) unless special applications make it necessary to refer to the data auxiliary set by complete nomenclature.

1.03 No routine maintenance of the ACU is required.

1.04 It is assumed that the test center has checked with the customer and verified that attempts by the customer to manually complete calls where the test buttons have failed before a repair visit is made to customer's premises.

1.05 The ACU power supply circuits contain no fuses.

1.06 If the ACU is suspected of being in trouble, it may be tested as outlined in the section entitled Data Auxiliary Sets 801A1, 801A2, 801A3, and 801A4 For Automatic Calling, Test Procedures (598-010-500).

Note: When replacing the set, verify that the new set is wired with proper options.

1.07 If unit meets requirements and trouble persists:

- (1) Confirm if possible that business machine and associated data set are operating properly.
- (2) Check for cord and connector defects.

(3) Check for trouble in inside wiring, connecting blocks, etc.

2. COVER REMOVAL AND REPLACEMENT

2.01 Cover Removal:



Before attempting cover removal or replacement, disconnect the power cord.

(a) Loosen but do not remove four captive rear cover screws located around the base pan (Fig. 1).

(b) Grasp the lower portion of the ACU rear cover at the front (where it joins the base pan). Lift straight up and exert an outward pressure on the cover sides while lifting. This permits the cover sides to pass over the test pushbutton key bracket assembly.

(c) Loosen but do not remove two front cover retaining screws (Fig. 2).

(d) Tilt front cover slightly forward at the top as it is pulled up and away from the base pan and test buttons.

2.03 Cover Replacement:

(a) Tilt the front cover slightly forward at the top as it is lowered over the base pan and test buttons.

(b) Check that the front cover retaining screws engage the front cover retaining brackets properly (Fig. 2).

(c) Tighten the two front cover retaining screws (Fig. 2).

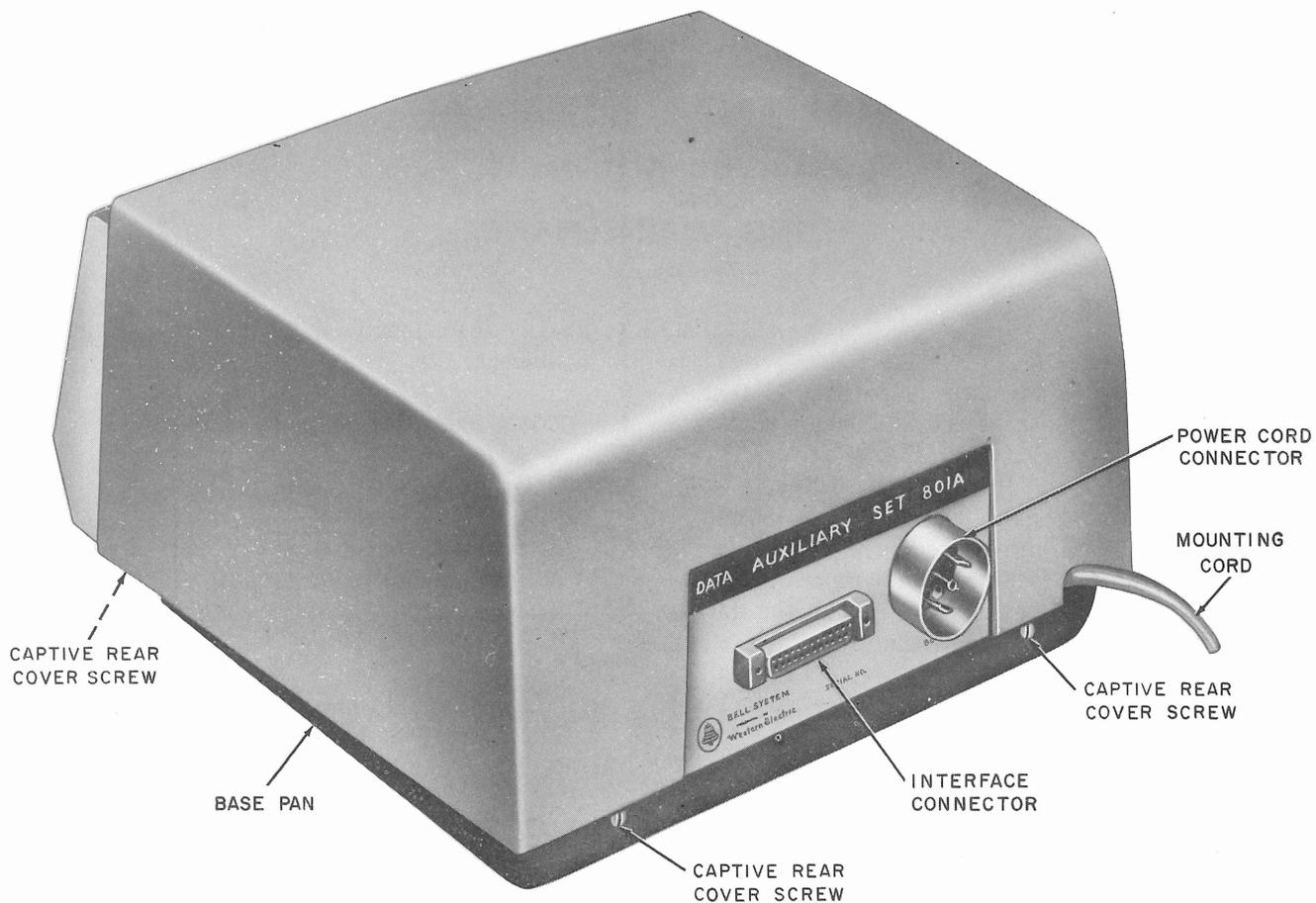


Fig. 1—Data Auxiliary Set 801A-Type, Rear View

- (d) Grasp the front lower portion of the ACU rear cover and exert an outward pressure as the rear cover is positioned over the test pushbutton key bracket assembly.
- (e) Position the rear cover retaining wedges so they may easily receive the cover lugs.
- (f) Lower the rear cover and cover lugs over the captive wedges.
- (g) Check that rear cover lugs are engaged with cover wedges.
- (h) Check that cover catch brackets are properly engaged with the rear cover at the front of the ACU.
- (i) Tighten four captive rear cover screws.

3. CORD CHANGE PROCEDURE



Before attempting cord change, verify that power cord has been disconnected.

- 3.01** The cord change procedure is given in the following steps:
- (a) Remove front and rear covers as described in Part 2, Cover Removal and Replacement.
 - (b) Remove cord stay hook from holder, which is mounted to the base pan.
 - (c) Turn ACU upside down on a flat surface to expose underside of base pan (Fig. 3).

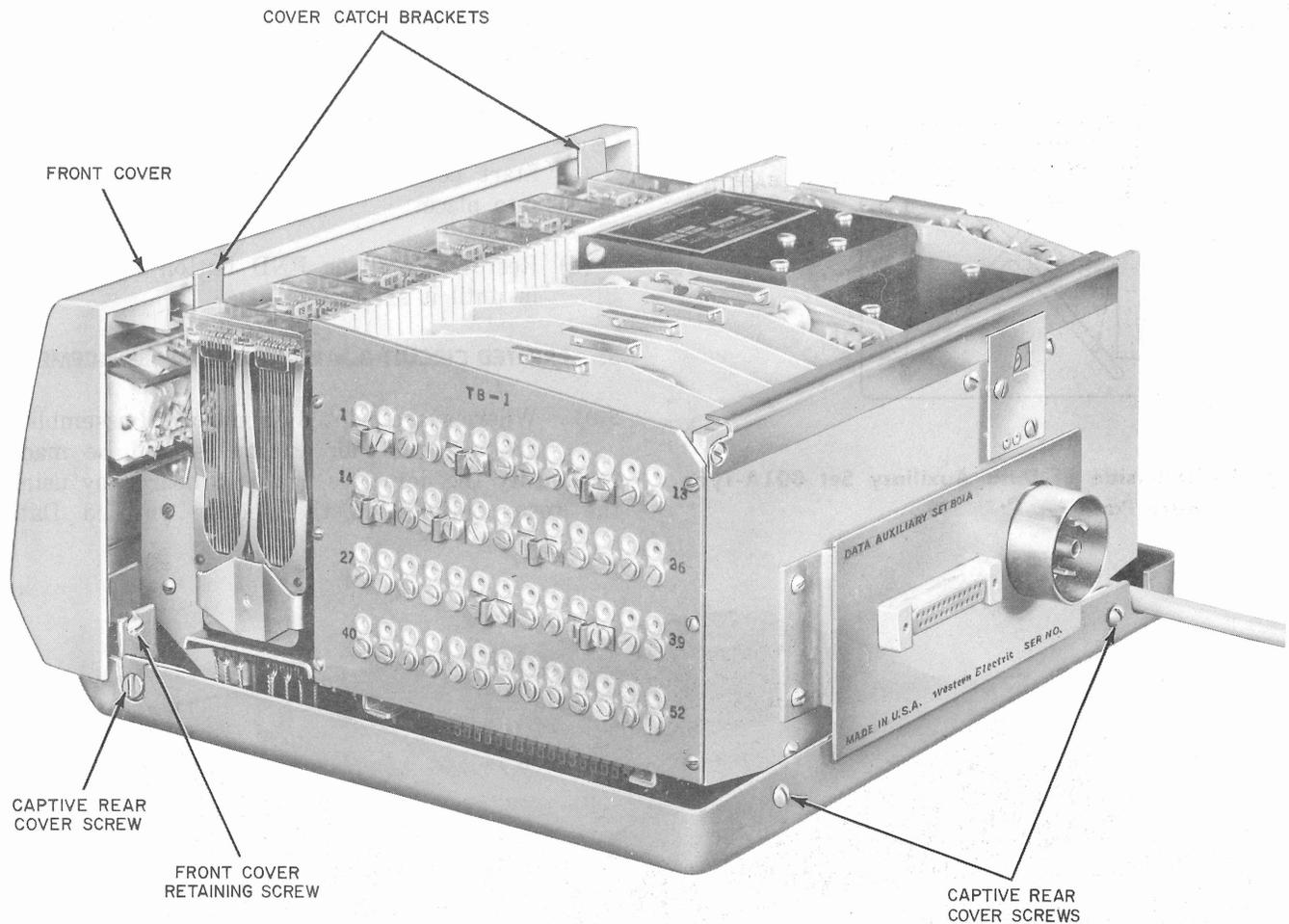


Fig. 2—Data Auxiliary Set 801A-Type, Rear Cover Removed

- (d) Remove the four base pan retaining screws (Fig. 3).

Note: Care must be exercised when lifting the base pan to prevent damage to attached components.

- (e) Lift base pan off to expose underside of ACU.
- (f) Loosen terminal screws on TB2 (Fig. 4) and remove the spade-tipped leads of the mounting cord.
- (g) Remove the cord.
- (h) Connect spade-tipped leads of new cord to terminals of TB2. (Refer to the installation

section of the applicable data set for connection arrangement.)

- (i) Replace ACU base pan.
- (j) Turn ACU rightside up.
- (k) Attach cord stay hook of new cord to base pan.
- (l) Replace covers.

4. TEST OR PND BUTTON LAMP REPLACEMENT

Note: A 553A tool is required.

- 4.01** To replace the lamp, perform the following steps:

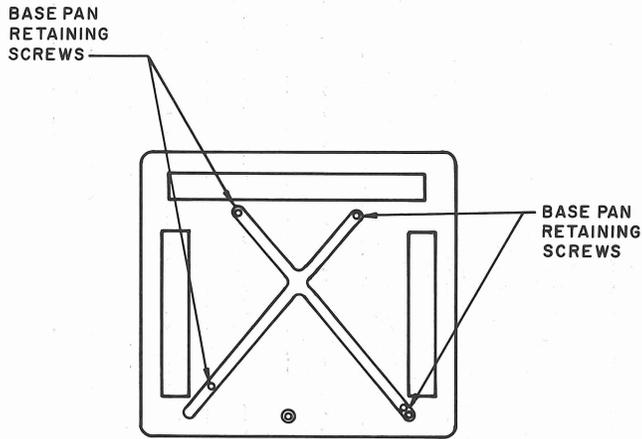


Fig. 3—Underside of Data Auxiliary Set 801A-Type Base Pan

- (a) Grasp the TEST or PND button (Fig. 4) and pull outward while applying slight rocking motion.
- (b) Extract defective lamp with 553A tool.
- (c) Start new 53A lamp into socket and push into place.
- (d) Restore TEST or PND button by pushing in until it snaps into place.

5. PRINTED CIRCUIT BOARD ASSEMBLY REPLACEMENT

5.01 Where spare printed circuit board assemblies are available, an attempt should be made to identify the defective board or boards by using the tests outlined in the section entitled Data

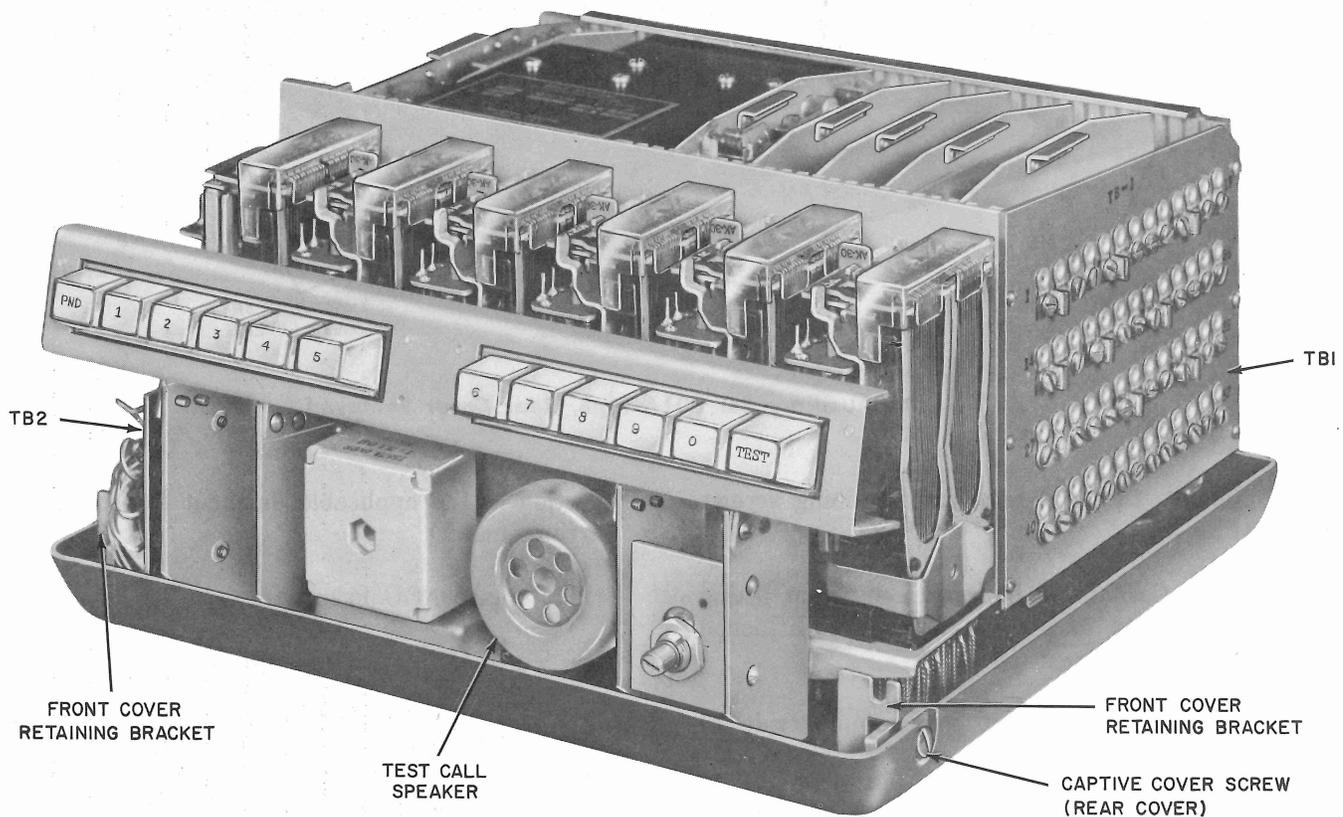


Fig. 4—Data Auxiliary Set 801A-Type, Inside View

Auxiliary 801A1, 801A2, 801A3, and 801A4 For Automatic Calling, Test Procedures (598-010-500). In this case, only the defective boards should be returned to the distributing house for repair rather than the entire ACU.

5.02 For the replacement of the printed circuit board, perform the following operations:



Before attempting assembly replacement, verify that power cord has been disconnected.

- (a) Remove cover of the ACU as shown in Part 2.
- (b) Insert screwdriver into locking bar catch plate (Fig. 5).
- (c) Turn screwdriver in clockwise motion to release card locking bar (Fig. 5).
- (d) Raise card locking bar to extreme open position.
- (e) Grasp the printed board bracket near top of board and carefully extract by pulling straight up.

- (f) Fit new assembly into positioning grooves and lower assembly until it seats in the connector socket.

Note: Do not force assembly into position. Recheck position of assembly and grooves.

- (g) Restore card locking bar to engage locking bar catch plate.
- (h) Retest ACU as outlined in section entitled Data Auxiliary Sets 801A1, 801A2, 801A3, and 801A4 For Automatic Calling, Test Procedures (598-010-500).
- (i) Replace rear cover of the ACU as shown in Part 2.03.

5.03 Sets or printed circuit board assemblies to be returned to the distributing house should be carefully packed (in the original type cartons if available) to protect sets in transit. Properly tag defective set or printed circuit board assembly, describing nature of trouble as completely as possible.

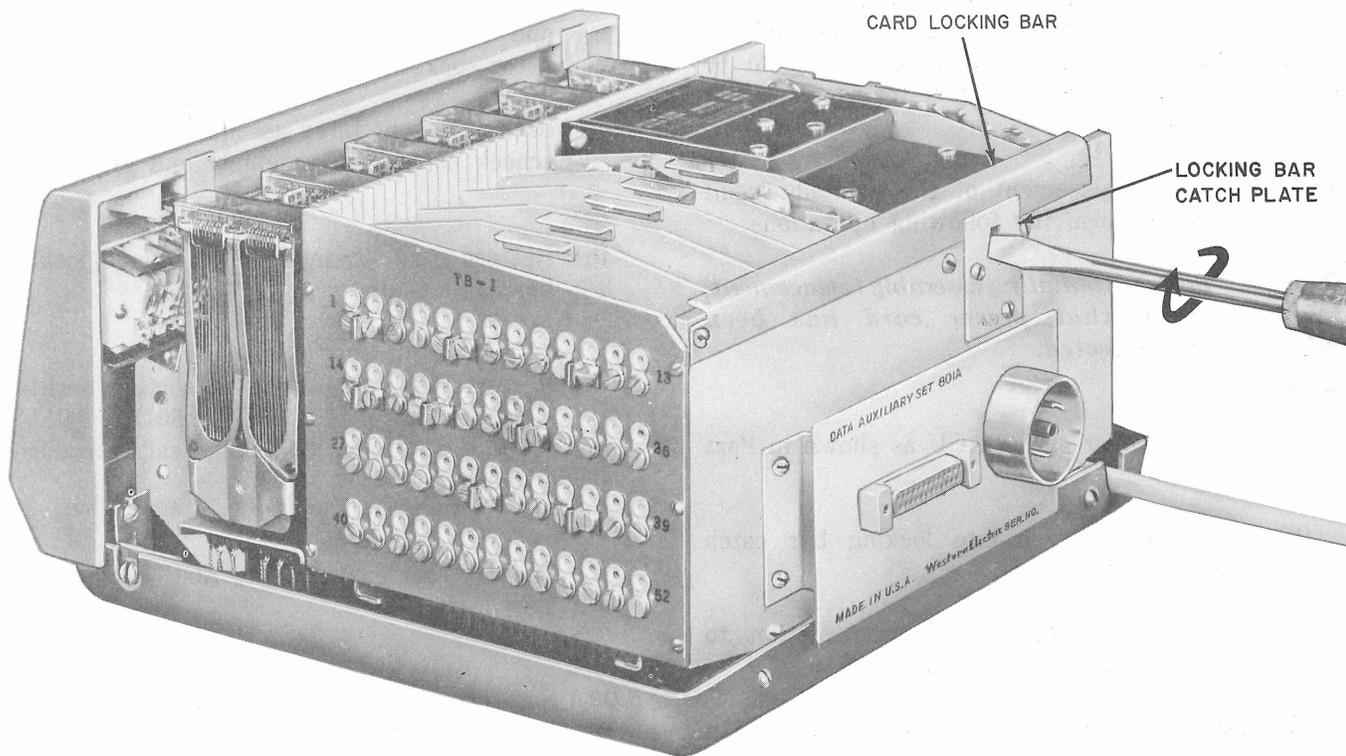


Fig. 5—Data Auxiliary Set 801A-Type, Cover Removed for Printed Circuit Board Replacement