

DATA SET 402D-TYPE RECEIVER MAINTENANCE

1. GENERAL

- 1.01 Routine maintenance of Data Set 402D-type is *not* required.
- 1.02 This section is reissued to add information on new circuit packs in Table A.
- 1.03 For detailed information concerning Data Set 402D-type, refer to SD- and CD-1D040-01.

2. MAINTENANCE

- 2.01 Data sets held on company premises as spare equipment must be ready for immediate use in case of trouble. They should be tested, so tagged, and placed back in their original cartons for protection.
- 2.02 Figure 1 shows a front view of the data set with cover removed. Figure 2 shows a rear view.
- 2.03 Trouble-clearing activity on data set will normally be under direction of a data test center.
- 2.04 A loop-back test should be performed with the customer by the data test center before a repair visit is made to the customer premises.
- 2.05 Data sets suspected of being in trouble should be tested as directed by the data test center. Refer to the section entitled Data Set 402-Type Receiver—Test Procedures (594-020-500).
 - (a) If set meets requirements and trouble persists:
 - (1) Confirm that business machine and associated cords test satisfactorily.
 - (2) Check for cord and connector defects. If trouble is suspected in interface connector

or wiring, perform interface tests covered in Section 594-020-500.

- (3) Check for intermittent trouble in station wiring, protector, etc.
- (4) Refer to data test center for further analysis and instruction.

- (b) Any set failing to pass test requirements should be replaced. The new data set should be tested with data test center before being released for customer use. When replacing a set, verify that new set is strapped for proper options.



Take proper steps to ensure customer is not billed for calls on test [see section entitled Crediting Charges on Test Calls (010-250-001)].

- 2.06 Printed wiring board assemblies (circuit packs), functions, and apparatus numbers are shown in Table A.
- 2.07 Tests described in Section 594-020-500 may be used to identify defective printed wiring boards. If new printed wiring boards are available, replace the defective boards and return only the defective boards, rather than the entire data set, to the distributing house for repair.
- 2.08 Printed wiring board assemblies should be replaced in the following manner:
 - (1) Remove power cord and business machine cord.
 - (2) Remove data set cover as follows:
 - (a) Loosen, but do not remove, the three captive cover-retaining screws located on rear panel of data set.
 - (b) Slide cover toward rear of data set to remove from base.

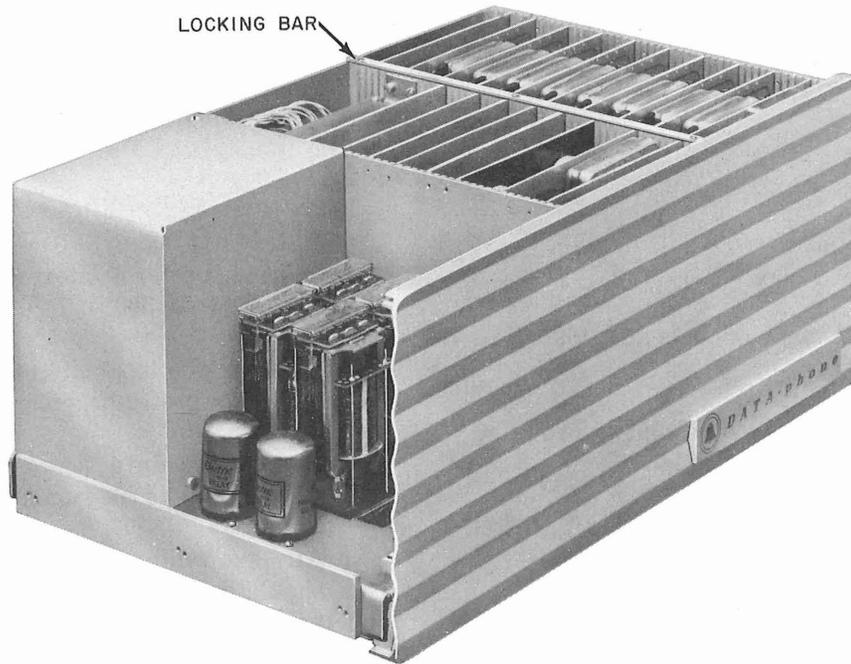


Fig. 1—Data Set 402D-Type, Front View, Cover Removed

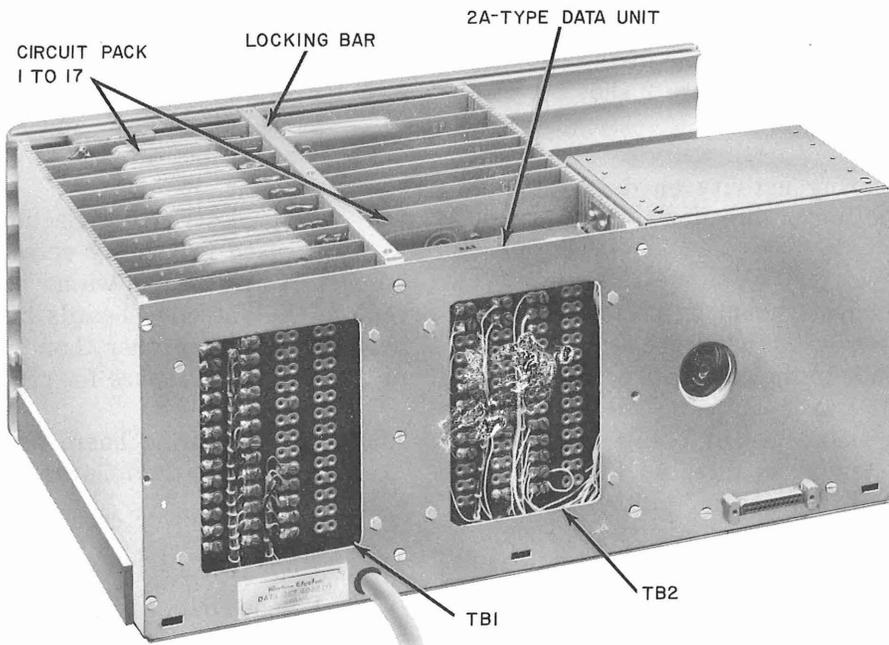


Fig. 2—Data Set 402D-Type, Rear View, Cover Removed

TABLE A

| PRINTED WIRING BOARD DESIGNATION | FUNCTION | PRINTED WIRING BOARD APPARATUS NUMBER | |
|----------------------------------|----------------------------------|---------------------------------------|-----------------|
| | | EARLIER SETS | LATER SETS |
| CP1 | Carrier On Detector | A835149 | EW1 |
| CP2 | Channel 1 Detector | A835150 | EW2 |
| CP3 | Channel 2 Detector | A835151 | EW3 |
| CP4 | Channel 3 Detector | A835152 | EW4 |
| CP5 | Channel 4 Detector | A835153 | EW5 |
| CP6 | Channel 5 Detector | A835154 | EW6 |
| CP7 | Channel 6 Detector | A835155 | EW7 |
| CP8 | Channel 7 Detector | A835156 | EW8 |
| CP9 | Channel 8 Detector | A835157 | EW9 |
| CP10 | Automatic Gain Control Amplifier | A835158 | EW10 |
| CP11 | Timing Pulser | A835159 | |
| CP12 | Timing Channel Demodulator | A835160 | |
| CP13 | Remote Test 1 | A835161 | |
| CP14 | Remote Test 2 | A835162 | |
| CP15 | Remote Test 3 | A835163 | |
| CP16 | Remote Test 4 | A835164 | |
| CP17 | Answer-Back Transmitter | A835165 | EW17 |
| 2A-Type Data Unit | Reverse-Channel Transmitter | 2A1 | 2A2 |

Note: Printed wiring board assemblies may be ordered by apparatus number as shown in Table A.

- (3) Remove three retaining screws which hold locking bar in position (Fig. 1 and 2), and remove locking bar.
- (4) Grasp printed board bracket at top of board and carefully extract by pulling straight up.
- (5) Place new assembly into positioning grooves and lower assembly until it seats in the connector socket.



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

- (6) Replace locking bar and tighten the three locking bar retaining screws.

- (7) Replace cover as follows:

- (a) Engage cover slide channels with slide on both sides of data set base.
- (b) Slide cover back until it engages rear panel.
- (c) Tighten the three captive cover-retaining screws.

- (8) Retest data set as outlined in Section 594-020-500.

2.09 Sets to be returned to distributing house should be packed carefully (in original cartons, if available) to protect sets in transit. Properly tag defective sets and printed board assemblies, describing nature of trouble as completely as possible.