

**DATA SET 103H-TYPE
MAINTENANCE**

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(591-027-500). If the data set meets the test requirements:

- (a) Verify with the customer that the data terminal and associated cords test satisfactorily.
- (b) Check for connector and cord defects.
- (c) Check for intermittent trouble in the station wiring.
- (d) Verify that the transmission facility meets transmission requirements outlined in the section entitled Data Systems—DATA-PHONE® Service on Direct Distance Dialing Network—Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines (314-205-501).

Caution: To prevent damage to circuit packs, disconnect power cord plug from power receptacle before removing data set, disconnecting circuit packs, or changing option screws. Also confirm that the proper options have been installed in the replacement data set.

1. GENERAL

- 1.01** This section covers the maintenance procedures to be performed for Data Set 103H-type.
- 1.02** This section is reissued to provide information on Data Set 103H2 which incorporates Data Set 103E6 as the data modem. Information on Data Set 103H1, which uses Data Set 103E5, is retained in this practice to provide coverage for equipment that is still in service. Since this is a general revision and changes have been made throughout the practice, change arrows have been omitted.
- 1.03** Routine maintenance of Data Set 103H-type is not required.
- 1.04** For a detailed circuit analysis of Data Set 103H-type, refer to CD- and SD-1D121-01 and CD-1D147-01. Schematic circuits for the individual circuit packs (CPs) are covered in SD-1D147-01.
- 1.05** Data Sets that are likely to be in trouble should be tested as described in the section entitled Data Set 103H-Type—Test Procedures

- 1.06** Data sets which do not meet test requirements should be replaced in order to restore customer service as quickly as possible.
- 1.07** After the replacement data set is installed, reset the transmit level as described in the section entitled Data Set 103H-Type—Installation (591-027-200), and test it as described in the section entitled Data Set 103H-Type—Test Procedures (591-027-500).
- 1.08** Verify that customer service is satisfactory before leaving the premises.
- 1.09** Exercise care in handling and transporting the data sets. If possible use original cartons to store, transport, or ship data sets.

SECTION 591-027-300

1.10 If maintenance spare data sets are stocked, verify that they are checked and ready for immediate installation.

2. REMOVAL OF DATA SET FROM TELETYPEWRITER (TTY) PEDESTAL (WHEN USED WITH 37 TTY ONLY)

2.01 When the data set is used with a model 37 TTY, it must be removed from the TTY pedestal before the cover, Data Set 103E5 or 103E6 and associated circuit packs can be removed. The data set is removed from the TTY pedestal as follows:

- (a) Disconnect power cord plug from power receptacle.
- (b) Loosen spring-ejected panel fastener (No. 53-11-410-24) securing 98A bracket to TTY pedestal floor.
- (c) Slide data set and 98A bracket out of TTY pedestal.

3. COVER REMOVAL AND REPLACEMENT

3.01 Cover Removal:

- (a) Loosen but do not remove the four captive screws located at each corner of the Data Set 103H-type base pan (Fig. 1).
- (b) Carefully lift cover.

3.02 Cover Replacement:

- (a) Carefully lower cover into position and ensure that the cover pan screws align with the cover nuts.
- (b) Tighten cover pan screws.

4. CIRCUIT PACK (CP) REMOVAL AND REPLACEMENT

4.01 The following procedure may be performed only by the telephone company.

4.02 Removal (Fig. 2):

Caution: *Ensure that the power cord plug is disconnected from the power receptacle.*

- (a) Remove cover (see 3.01).
- (b) Loosen the two retaining screws at the top rear of the Data Set 103E5 or 103E6.
- (c) Raise card guide to a vertical position.
- (d) Disengage the retaining bracket by lifting vertically then lower it to a horizontal position.
- (e) The circuit packs may now be removed by grasping the card and withdrawing from the data set.

4.03 The circuit packs may be replaced by reversing the procedure described in 4.02.

5. DATA SET 103E5 OR 103E6 REMOVAL AND REPLACEMENT

Caution: *Ensure that the power cord plug is disconnected from the power receptacle.*

5.01 Removal (Fig. 2):

- (a) Remove cover (see 3.01).
- (b) Remove two mounting screws and disconnect 50-pin plug and connector assembly.
- (c) Disconnect plug P8 from connector J8 at the rear of Data Set 103H-type.
- (d) Place Data Set 103H-type on its left side (relay board assembly on top).
- (e) While supporting Data Set 103E5 or 103E6 with one hand, remove the four mounting screws located at the rear of Data Set 103H-type base pan.
- (f) Remove Data Set 103E5 or 103E6 by withdrawing the cable from Data Set 103H-type and lifting vertically.

5.02 Data Set 103E5 or 103E6 may be replaced by reversing the procedure described in 5.01.

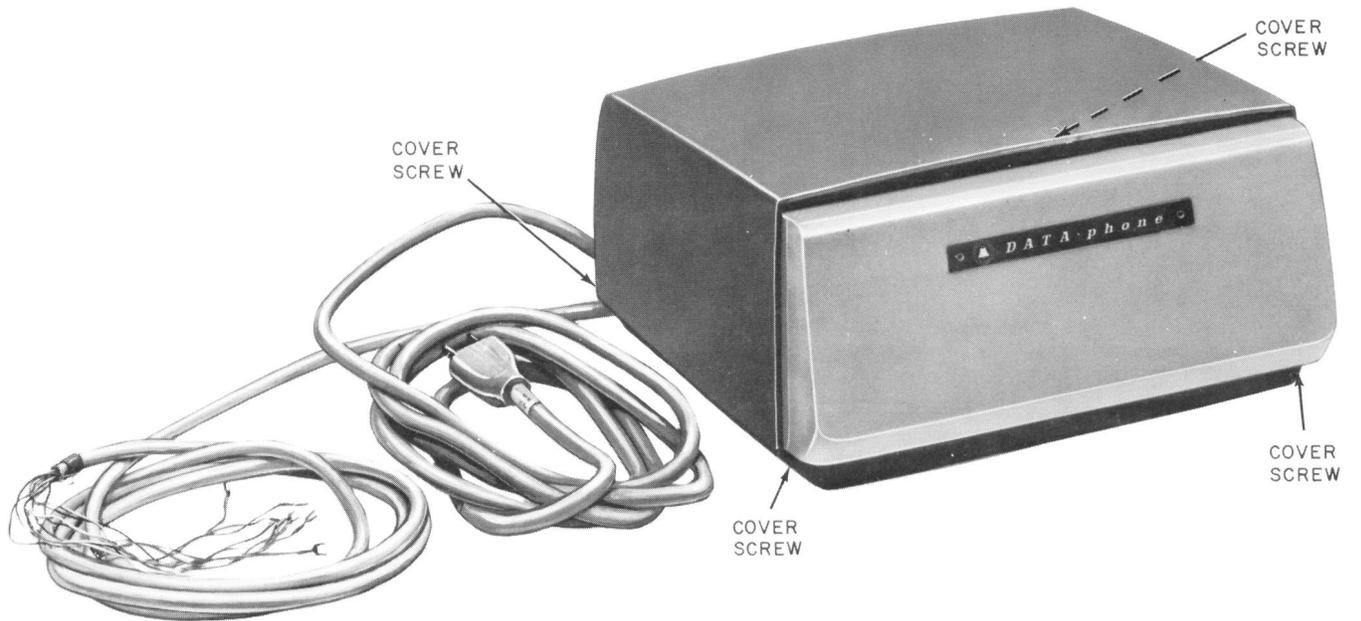


Fig. 1—Data Set 103H-Type

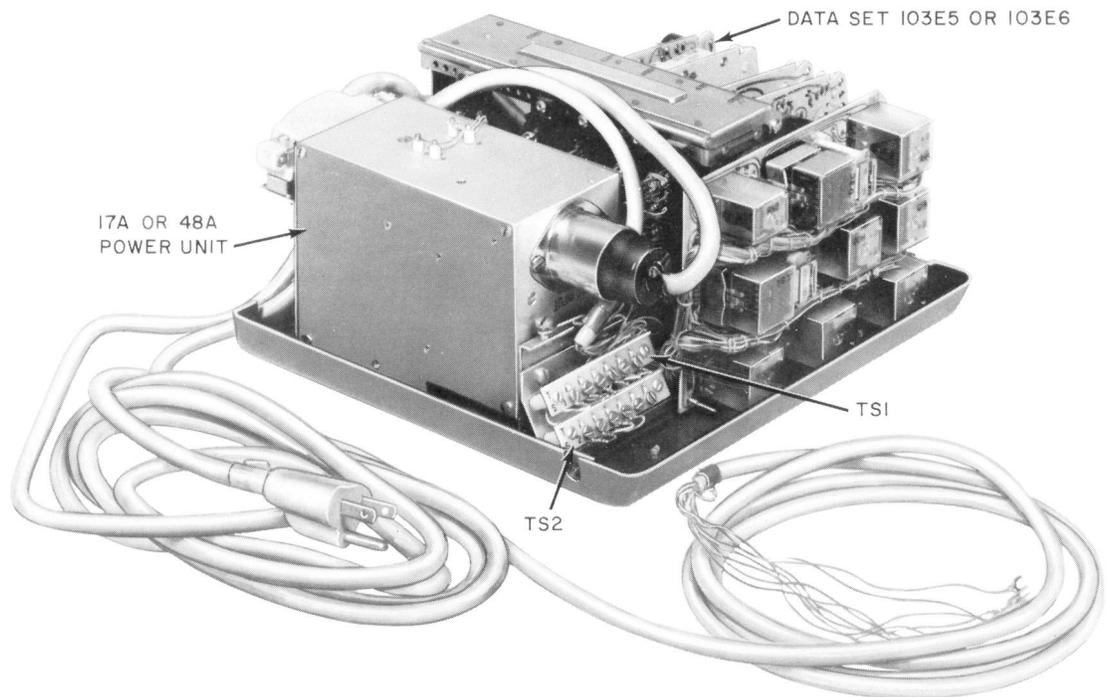


Fig. 2—Data Set 103H-Type—Cover Removed