

## DATA SETS 201A3, A4 AND 201B3, B4 TRANSMITTER-RECEIVER MAINTENANCE

### 1. GENERAL

**1.01** This section contains information concerning the maintenance of Data Sets 201A3, A4 and 201B3, B4. It is designed to coordinate the efforts of the craft employee with the efforts of the data test center (DTC) to locate and eliminate any trouble involving a Data Set 201-type.

**1.02** This section is reissued to include a maintenance flow chart for Data Set 201-type. Information on card replacement has been moved to Section 592-011-501. Because changes are extensive, change arrows have been omitted.

**1.03** Routine maintenance is not required on a Data Set 201-type. For information concerning maintenance of the telephone or data auxiliary sets, refer to Part 3 (REFERENCES) of this section.

### 2. MAINTENANCE

**2.01** When investigating a trouble report, proceed as outlined in Fig. 1. For information on testing Data Sets 201A3, A4 and 201B3, B4, refer to Section 592-011-501. If the 914B Data Test Set (DTS) is used, it will be necessary to first perform the installation test in order to obtain the information required for finding and replacing the defective cards in the data set. If new cards are not available to replace any defective cards, the data set must be replaced. When replacing a data set, the new data set must have the same option strapping as the data set being replaced.

**2.02** The craft employee at the defective data station must be equipped with the following:

(a) For data sets with internal timing:

1—914B Data Test Set

*or*

1—901-type Data Test Set *and*

1—902-type Data Test Set *and*

2—903-type Data Test Sets.

*Note:* Test procedure using the 914B DTS is outlined in Part 3 of Section 592-011-501.

(b) For data sets equipped for external timing:

Test equipment listed in (a) *and*

1—32LBMP-2000 (for Data Set 201A) or -2400 (for Data Set 201B) frequency standard (Bulova Watch Co.)

*or*

1—Additional 901-type Data Test Set *and*

1—Data Set 201-type with internal timing (in addition to data set being tested).

*Note:* The additional data set must be of the same speed as the data set under test.

**2.03** Before performing the dynamic test, proceed as follows:

(a) Confirm that the business machine and associated cords test satisfactorily.

(b) Check for cord and connector defects.

(c) Check for intermittent trouble in drop, inside wire, protector, etc.



*Check all options for proper strapping as specified in Section 592-011-201.*

**SECTION 592-011-301**

**2.04** Conduct the test as outlined in Section 592-011-501. If it is suspected that the power supply is defective, remove the power supply and test it as follows:

- (a) Loosen the four retaining screws and remove the power supply from the data set chassis (Fig. 2).
- (b) Connect the power supply to a 117-volt 60-Hz source. Measure the voltage between pin 3 and pin 4 (ground) on the power supply socket.

**Requirement:** Greater than +12.8 volts

- (c) Reverse the meter leads and measure the voltage between pin 5 and pin 4 (ground).

**Requirement:** Greater than -12.8 volts

- (d) If the power supply test fails, the power supply should be replaced.

**2.05** Circuit boards R1-R3 make up group code BT1. Circuit boards R13-R16 make up group code BT2 for Data Set 201A or BT4 for Data Set 201B. Group codes BT1, BT2, and BT4 must be tested as a group. If any card of the group is defective, the entire group should be replaced. If a single card of the group is replaced, the entire group must be tested as specified in the section entitled Data Sets 201A3, A4 and 201B3, B4,

Transmitter-Receiver, Supplementary Information (592-011-151).

**2.06** When ordering circuit boards, refer to Section 592-011-101. Table C of that section lists all circuit boards contained in each model of Data Set 201A or 201B. When ordering circuit boards, include the quantity of boards required.

**3. REFERENCES**

**3.01** The following Bell Systems Practices may be helpful in maintaining Data Set 201-type:

SECTION	TITLE
598-010-300	Data Auxiliary Sets 801A1 and 801A2, Maintenance
598-010-301	Data Auxiliary Set 801A6, Maintenance
598-012-300	Data Auxiliary Set 801C2, Maintenance
598-012-301	Data Auxiliary Set 801C4, Maintenance
598-030-100	Data Auxiliary Set 804A, Identification and Connections

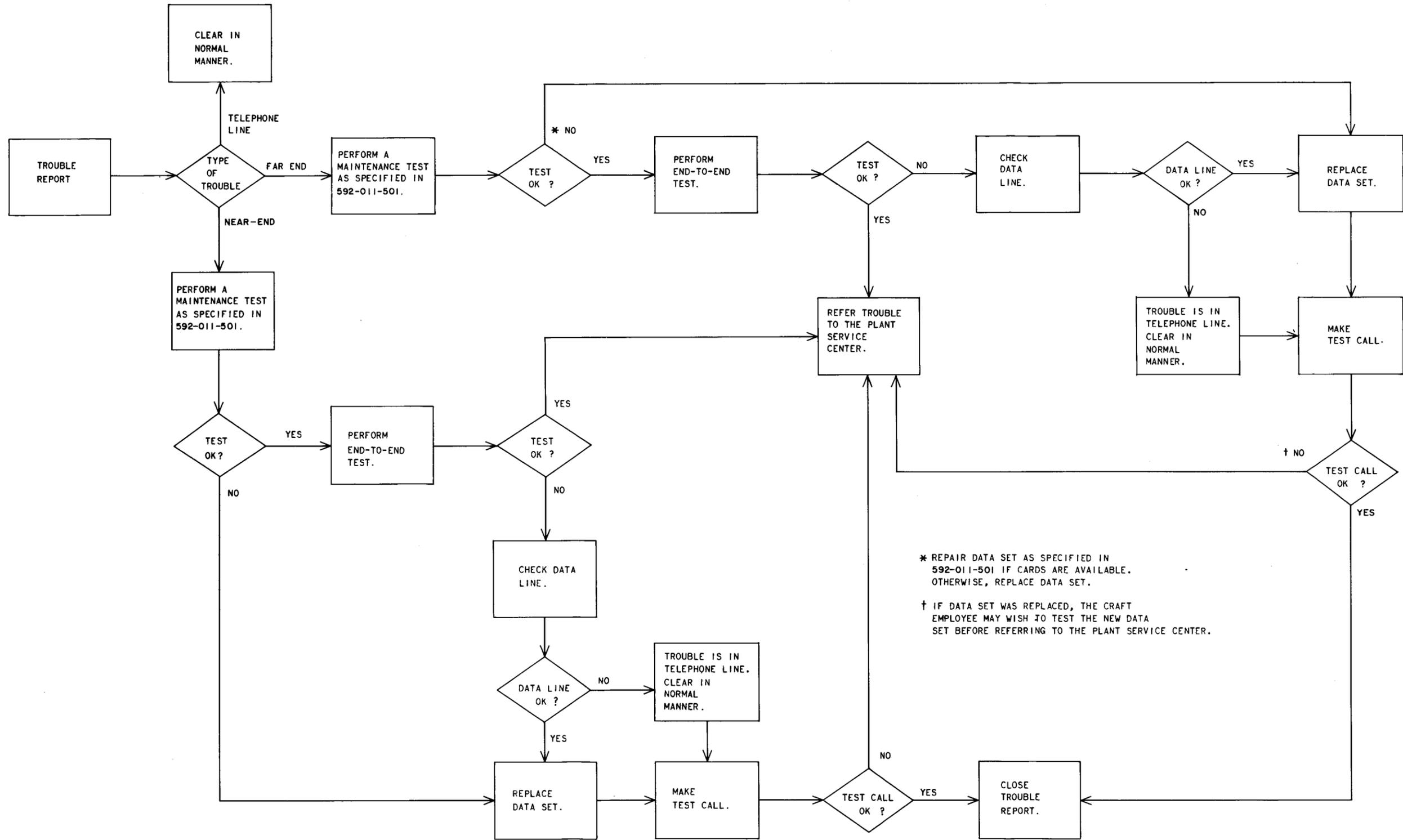


Fig. 1—Trouble Reporting and Investigating

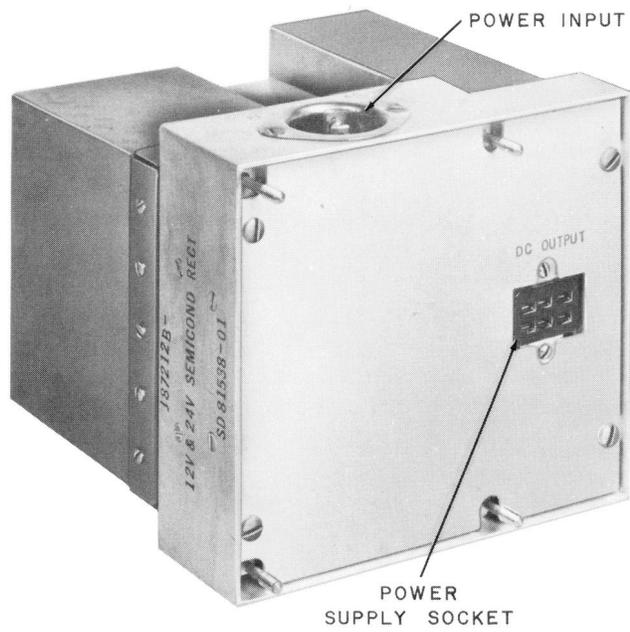


Fig. 2—Data Set 201, Power Supply