

DATA SETS 201A AND 201B LIST TYPE TRANSMITTER-RECEIVER MAINTENANCE

1. GENERAL

1.01 This section contains information concerning the maintenance of Data Sets 201A and 201B list types. 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 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 Set 201 list type, refer to the section entitled Data Sets 201A and 201B List Type, Transmitter-Receiver, Test Procedures (592-011-502). 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 found, the data set must be replaced. When replacing a data set, the new data set must have the same list combination and option strapping as the data set being replaced.

2.02 The craft employee at the data station to be tested should be equipped with the following test equipment:

(a) For data sets with internal timing:

1—914B Data Test Set

or

1—901B or 901C Data Test Set *and*

1—902-type Data Test Set *and*

2—903-type Data Test Sets.

Note: Test procedure using the 914B Data Test Set is outlined in Part 3 of Section 592-011-502.

(b) For data sets equipped for external timing:

Test equipment listed in (a) and

1—32LBMP-2000 (for 201A) or -2400 (for 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 592-011-202.

2.04 Conduct the test as outlined in Section 592-011-502. If it is suspected that the

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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 (GRD) on the power supply socket.

Requirement: Greater than +12.8 volts

- (c) Measure the voltage between pin 5 and pin 4 (GRD).

Requirement: Greater than -12.8 volts

- (d) If the power supply test fails, replace the power supply.

2.05 Circuit boards R1 through R3 make up group code BT7. Circuit boards R13 through R16 make up group code BT8 for Data Set 201A or BT9 for Data Set 201B. Group codes BT7, BT8, and BT9 are to be tested as a group. If any card of the group is defective, the entire group should be replaced. If a single card of a group is replaced, the entire group should be tested as specified in the section entitled Data Sets 201A- and 201B-List Types, Transmitter-Receiver, Theory of Operation and Supplementary Information (592-011-152).

2.06 When ordering circuit boards, refer to the section entitled Data Sets 201A- and 201B-List Type, Transmitter-Receiver, Description and Operation (592-011-102). Table A of that section lists all circuit boards provided by a specific list combination. When ordering circuit boards, include the quantity of boards required.

3. REFERENCES

3.01 The following Bell System Practices provide maintenance information concerning equipment associated with Data Set 201A and 201B:

| SECTION | TITLE |
|-------------|---|
| 502-525-410 | Telephone Set 564HL, Connections |
| 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 |

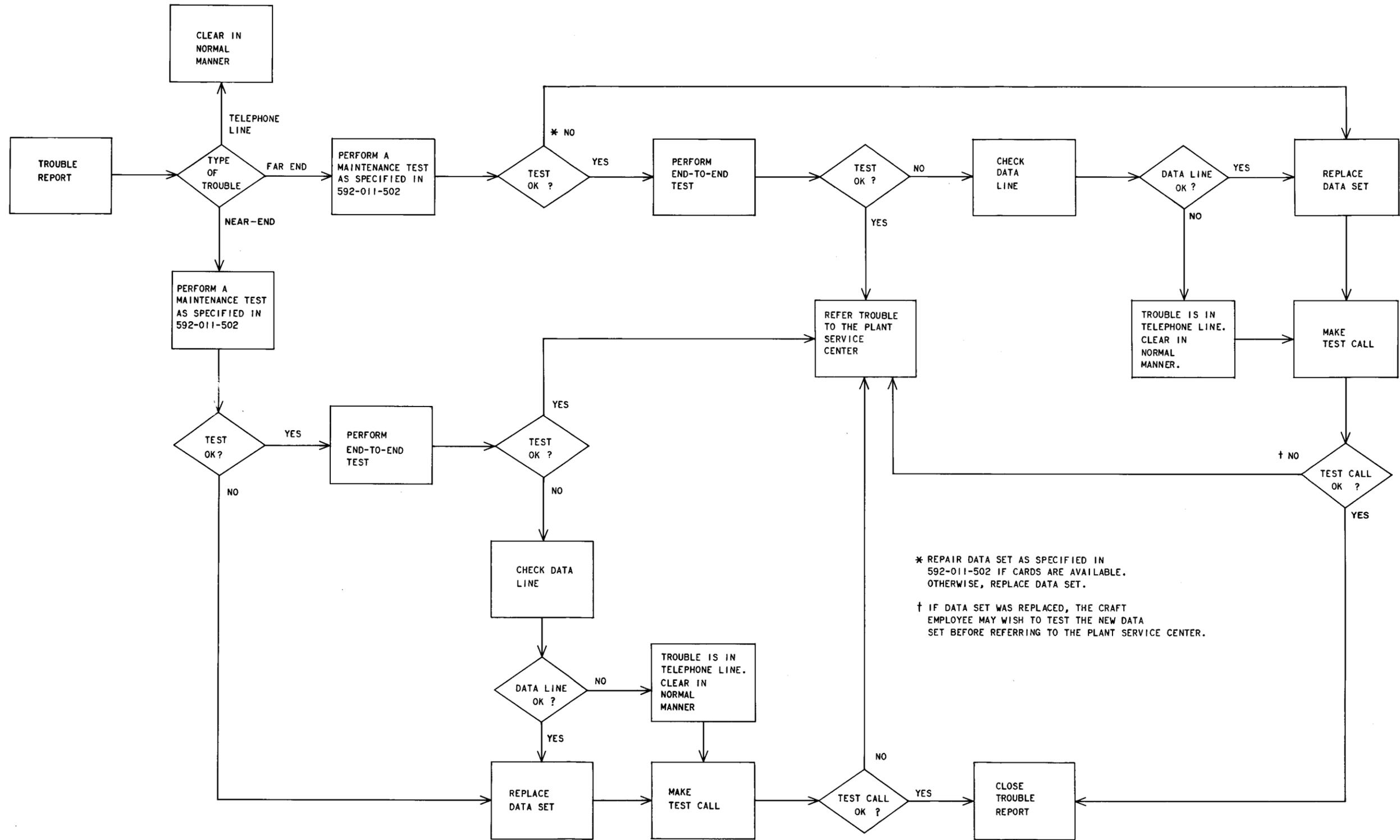


Fig. 1—Trouble Reporting and Investigating

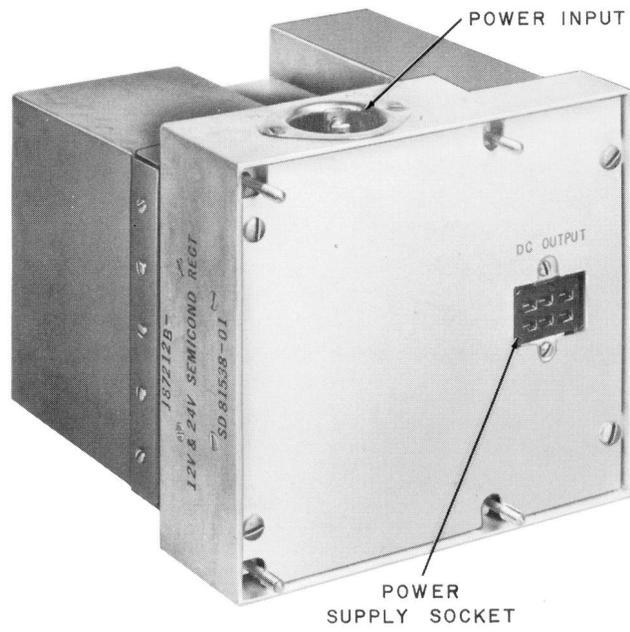


Fig. 2—Data Set 201B, Power Supply