

407AR AND 407BR MULTIPLE DATA STATIONS MAINTENANCE

1. GENERAL

1.01 This section describes the maintenance procedures to be followed when troubleshooting the 407AR and 407BR multiple data stations.

1.02 When this section is reissued, the reason for reissue will be presented in this paragraph.

1.03 Data sets 407AR and 407BR, the 41-type data mounting, and the test unit require no routine maintenance after installation tests and adjustments have been made.

1.04 Care should be exercised when handling and transporting the data sets, data mountings, and data units. If possible, use the original cartons to store, transport, or ship these units.

1.05 If maintenance spares are stocked, verify that they are checked and ready for immediate installation. When replacing a data set, ensure that the proper options are installed in the replacement data set.

2. MAINTENANCE PROCEDURES

2.01 Since there is no routine maintenance required for the 407AR and 407BR multiple data stations, maintenance of the data stations is limited to detection and replacement of defective apparatus. Apparatus suspected of trouble should be tested as described in Section 594-801-500.

2.02 A KS-20538-L1 volt-ohm-milliammeter, or equivalent, is needed to perform some of the troubleshooting procedures which follow.

3. REMOVAL AND REPLACEMENT PROCEDURES

A. Data Set 407AR or 407BR

3.01 Removal

- (1) Gain access to data set as required.
- (2) Lower the locking strip.
- (3) Remove the data set.

3.02 Replacement

- (1) Verify that proper options are installed in replacing data set. **Be sure to replace the data set with the proper kind. DS 407AR-L1B must be replaced with a DS 407AR-L1B; DS 407BR-L1A must be replaced with a DS 407BR-L1A.**
- (2) Position replacing data set in proper position and firmly push it into the nest until the data set faceplate is even with the edge of the nest.
- (3) Restore locking strip.
- (4) Install front cover of data station.

B. 101A Power Unit

3.03 Removal and Replacement



Removal of the 101A power unit will require a customer release on the working data circuits associated with the power unit to be removed. Exercise care when positioning this unit for mounting; it weighs 20 pounds.

- (1) Disconnect interconnecting cables from the power unit.
- (2) Remove the two screws from the front and one screw from the side of the power unit at the rear.
- (3) Remove the power unit from the shelf of the 41-type data mounting.

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- (4) Make sure that the same grounding option is applied on replacing power unit as that on the unit being replaced.
- (5) Install replacement 101A power unit by placing the unit in position and securing with the three screws removed in (2) above.
- (6) Connect interconnecting cables as required.

C. 41-Type Data Mounting

3.04 Removal



Removal of the 41-type data mounting will require a customer release on the working data circuits associated with the 41-type data mounting to be removed.

- (1) Gain access to the 41-type data mounting.
- (2) Remove the 101A power unit as described in paragraph 3.03.
- (3) Tag and remove all customer-provided interface cables from the data sets mounted in the 41-type data mounting to be replaced.
- (4) Remove all the data sets from the 41-type data mounting.
- (5) Tag and remove the KS-16689-L3 plug from J3.
- (6) Tag and remove the KS-16689-L3 plug from J4.

- (7) Remove 41-type data mounting from mounting rack arrangement.

3.05 Replacement

- (1) Mount the new 41-type data mounting in the mounting rack arrangement. **Be sure to replace the data mounting with the proper mounting. The 41A3 must be replaced with a 41A3; the 41B3 must be replaced with a 41B3.**
- (2) Replace the 101A power unit as described in paragraph 3.03.
- (3) Plug the KS-16689-L3 plugs into J3 and J4 in accordance with tags.
- (4) Insert data sets in the slots of 41-type data mounting, seating them firmly.
- (5) Perform installation test per Section 594-801-500.
- (6) Plug the customer-provided interface cables into the data sets in accordance with tags.
- (7) Install front cover of data station.

4. TROUBLESHOOTING PROCEDURES

4.01 Troubleshooting the 407AR or 407BR multiple data station should be in accordance with the flowchart shown in Fig. 1. The flowchart is a recommended procedure to follow when investigating system trouble. The diamond represents a decision to be made, while the circles provide a means of referring to another information block in the flowchart.

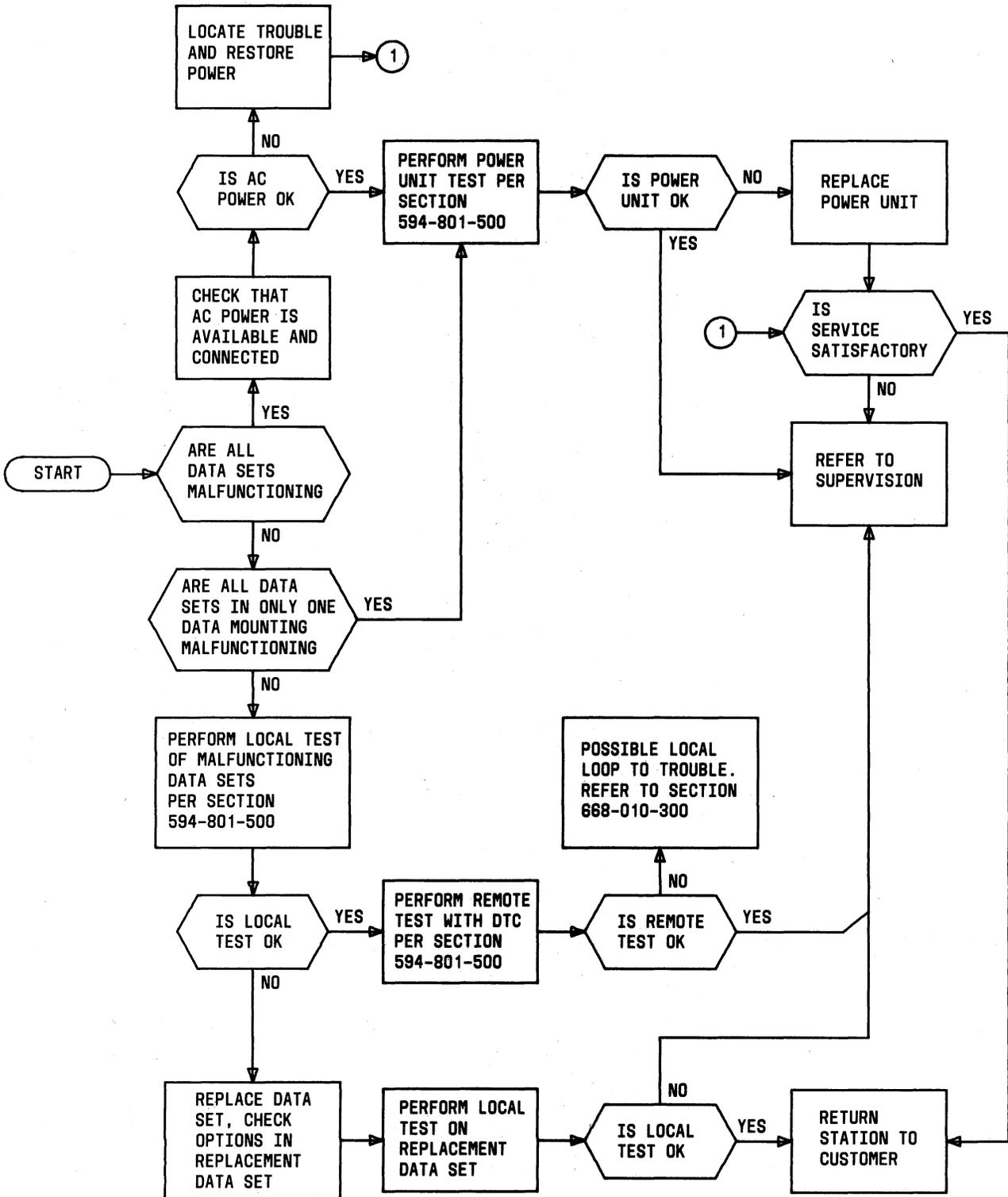


Fig. 1—Troubleshooting Flowchart for 407AR and 407BR Multiple Data Stations