

## 407-TYPE MULTIPLE DATA STATION MAINTENANCE

### 1. GENERAL

**1.01** This section describes the maintenance procedures to be followed when troubleshooting the 407-type multiple data station.

**1.02** This section is reissued to add coverage on data sets (DS) 407A-L1A and 407B.

**1.03** Data sets **407-type**, 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 **407-type** multiple data station, maintenance of the data station is limited to detection and replacement of defective apparatus. Apparatus suspected of trouble should be tested as described in Section 594-800-500.

**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

#### Data Set **407-Type**

#### 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 407A-L1 may be replaced with either a DS 407A-L1 or a DS 407A-L1A. DS 407A-L1A must be replaced with a DS 407A-L1A. DS 407B must be replaced with a DS 407B.**
- (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.

#### 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.
- (4) **Make sure that the same grounding option is applied on replacing power unit as that on the unit being replaced.**

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## SECTION 594-800-300

- (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.

### 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 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 41A1 can be replaced with a 41A1 or a 41A2; the 41A2 must be replaced with a 41A2. The 41B1 can be replaced with a 41B1 or a 41B2; the 41B2 must be replaced with a 41B2.◆**

- (2) Replace the 101A power unit as described in 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 verification test per Section 594-800-500.
- (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 ◆407-type◆ 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 information blocks in the flowchart are numbered to provide easy reference. The diamond represents a decision to be made, while the circles provide a means of referring to another numbered information block in the flowchart.

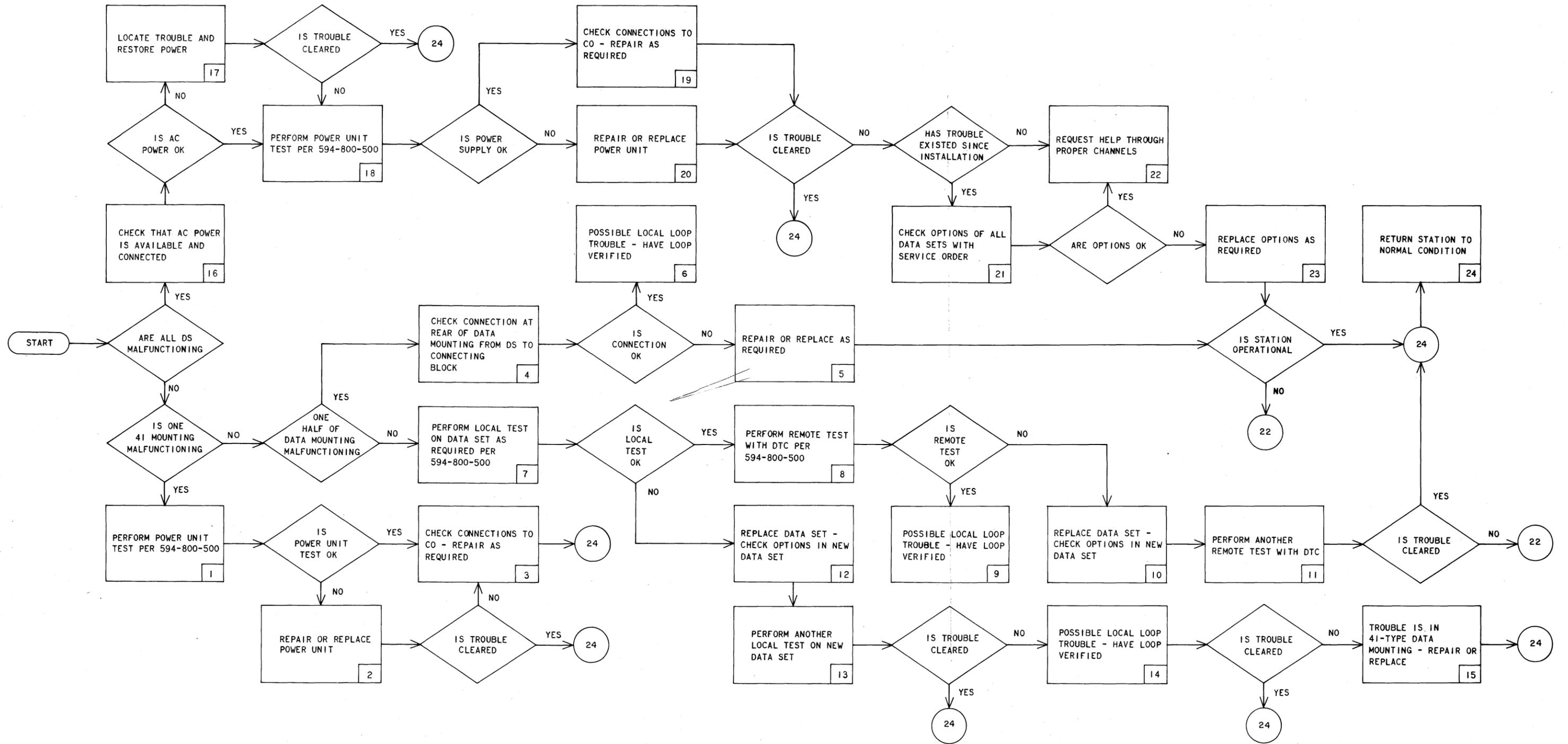


Fig. 1—Troubleshooting Flowchart for 407-Type Multiple Data Station