

DATA STATION USING DATA SET 202S MAINTENANCE

1. GENERAL

1.01 This section contains information needed to maintain data sets 202S when they are installed in a 40A1 data mounting and housed in a KS-20018-type cabinet. This type installation will be referred to in this section as a 202S data station. This section is intended to be used to coordinate the efforts of the craft employee with those of the data test center (DTC) when investigating trouble reports. Refer to Section 592-028-300 for information needed to maintain individually housed data sets 202S.

1.02 A 202S data station does not require routine maintenance after the installation tests and adjustments have been made.

Caution: *When the data set is taken out of the housing, it should be handled by the nonconductive surfaces only. Otherwise, certain circuit components may be damaged by static electricity.*

2. MAINTENANCE

2.01 Follow the sequence given in Fig. 1 and the procedures given in Section 592-860-500 when investigating and clearing a trouble report. Table A can be used to evaluate the trouble symptoms and may give the person clearing the trouble an indication of where and what the problem is.

2.02 If it becomes necessary to dispatch a telephone company employee to the data station location, the following equipment should be taken along:

- A 914C *or* a 914B and a 903 data test set
- A spare data set 202S-L1/2/3.

2.03 If the data set must be replaced, the defective set should be tagged with a tag describing the nature of the trouble, carefully packed, and

returned to a service center for repair. After the data set has been replaced, refer to the installation test procedures given in Section 592-860-500.

2.04 Upon arriving at the data station location, the person clearing the trouble should:

- (1) Verify that the customer-provided equipment has been tested and is operating satisfactorily.
- (2) Check all the cords and connectors for proper connections.
- (3) Inspect the equipment for physical damage.
- (4) Verify that the customer-provided equipment and the data station are connected to a common ground.
- (5) Check the data mounting for blown fuses.

2.05 If the data set must be replaced, verify that options installed in the replacement data set agree with the service order for the set being replaced.

3. REFERENCES

3.01 The following documents may be referred to for additional information.

| NUMBER | TITLE |
|------------------|---|
| SD & CD-1D238-01 | Data System Station—Data Set 202S-Type and 40A1 Data Mounting |
| SECTION | TITLE |
| 592-028-100 | Data Set 202S Transmitter-Receiver—Description and Operation |
| 592-860-100 | Data Station Using Data Set 202S—Description and Operation |

NOTE:
THIRD TROUBLE REPORT ON THIS SERVICE
WITHIN 30 DAYS WITH FIRST TWO BEING
"NO TROUBLE FOUND".

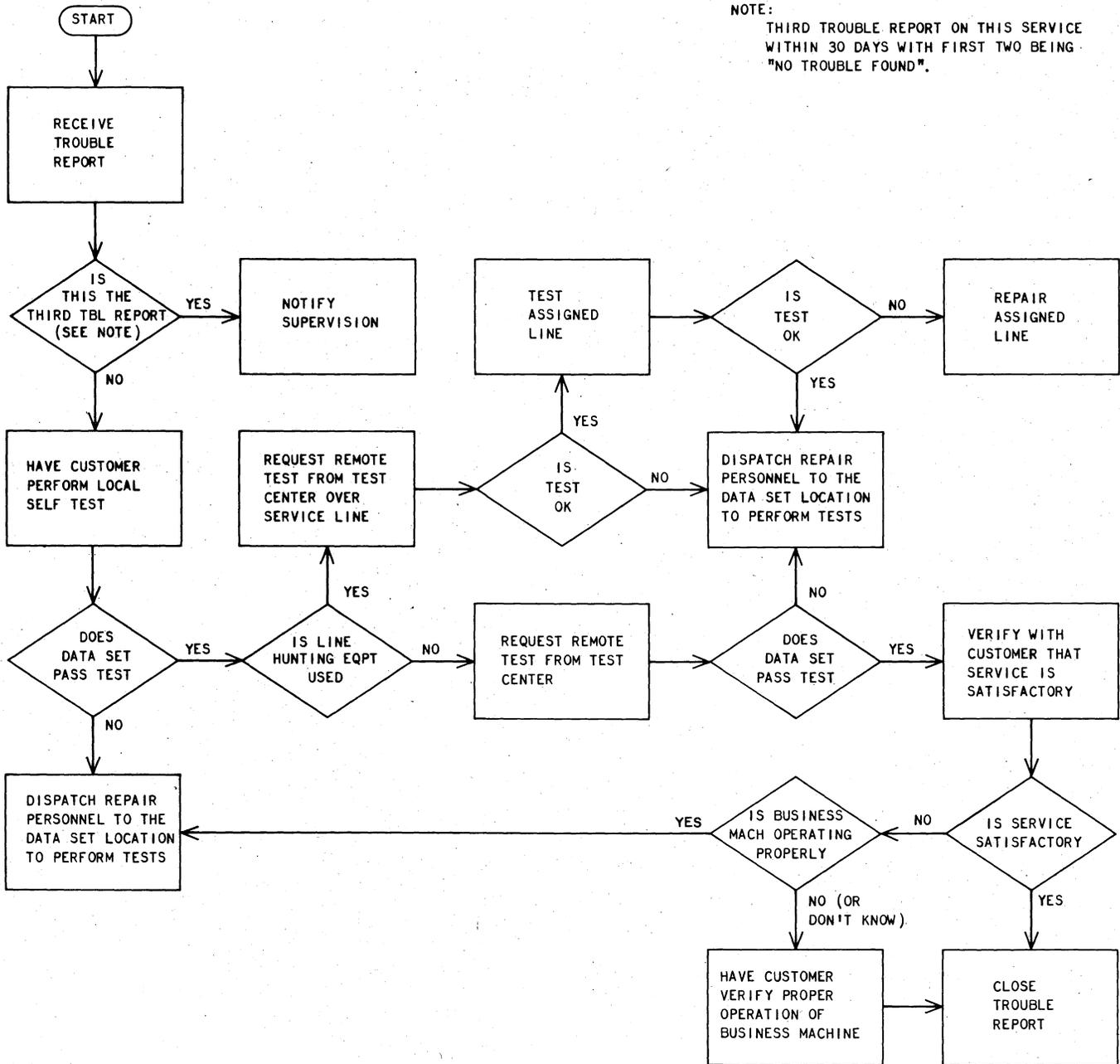


Fig. 1—Maintenance Flowchart for 202S Data Stations

TABLE A
202S DATA STATION TROUBLE ISOLATION TABLE

| NATURE OF TROUBLE | POSSIBLE CAUSE | ACTION TO BE TAKEN |
|---|--|--|
| Data set will not transmit <u>or</u> receive data. | <ul style="list-style-type: none"> • Data set not in data mode (DSR off). • Data terminal ready lead (CD) is not energized, TR indicator OFF. • Make busy switch closed. • Data set is in remote or analog loop-back test mode. | <ul style="list-style-type: none"> • Check for loose interface connector. • Inform customer and check for loose interface connector. • Reposition switch. • Release AL or RT button. |
| Excessive errors. | <ul style="list-style-type: none"> • Improper grounding. • Faulty transmission facilities. | <ul style="list-style-type: none"> • Refer to 592-860-200. • Refer to 592-860-500. |
| Unable to call out of data station. | 233A adapter wired incorrectly (if ACU used). | Refer to 592-860-200. |
| Data set will not remote test over service line. | <ul style="list-style-type: none"> • Service line connection between mountings not connected. • Remote test relay defective. • Fuses for number 8 slot blown. • Defective service line. • Another set in mounting is in remote test mode. | <ul style="list-style-type: none"> • Connect per 592-860-200. • Replace data mounting. • Replace fuses. • Repair or replace service line. • Release other set from test mode. |
| TM indicator lighted when data set is <u>not</u> in test mode. | Two or more other data sets with option ZY installed are in remote test mode. | Remove one of the other sets from the remote test mode. |
| Telephone set rings when the station receives a remote test call on the service line. | Option is not installed properly in the 233A adapter. | Refer to 592-860-200. |
| Data set will not auto. answer. | <ul style="list-style-type: none"> • Data terminal ready lead (CD) is not energized, TR indicator OFF. • Ringing voltage may be less than 60 Vac. • Loop current may be less than 20 mA. | <ul style="list-style-type: none"> • Inform customer. • Refer to 592-860-500. • Refer to 592-860-500. |
| Data set will not enter data mode manually. | <ul style="list-style-type: none"> • Data terminal ready lead (CD) is not energized, TR indicator OFF. • Loop current may be less than 20 mA. | <ul style="list-style-type: none"> • Inform customer. • Refer to 592-860-500. |

SECTION
592-860-200

TITLE
Data Station Using Data Set
202S—Installation

SECTION
668-102-519

TITLE
Data Test Center 904A- and
904C-Type—Test Procedures
For Data Set 202S

592-860-500

Data Station Using Data Set
202S—Test Procedures