

## DATA STATION USING DATA SET 202T TEST PROCEDURES

### 1. GENERAL

**1.01** This section contains information on testing data sets 202T when they are installed in 39A1 or 40B1 data mountings. This type of installation will be referred to in this section as a 202T data station. The information in this section supplements Section 592-031-500.

**1.02** Installation and maintenance tests for data sets in a 202T data station are the same as for data sets 202T in individual housings. Refer to Section 592-031-500 for these procedures. For procedures to be followed when investigating a trouble report, refer to Section 592-031-300.

**1.03** The data sets in a 39A1 or 40B1 data mounting have a common power supply. If more than one data set in a mounting has a power-related trouble, the power supply should be investigated. If the power supply is defective, the mounting must be replaced.

**1.06** The frame ground (AA) lead is not brought out on customer interface pin 1 when data set is plugged into the mounting. Therefore, a ground noise test cannot be made as directed in Section 592-031-500. If ground noise is suspected, conduct a ground noise test as directed in 2.01 through 2.03.

### 2. TEST PROCEDURE

#### A. Ground Noise Test

**2.01** If the data set and business machine are not at the same ground potential, errors may be caused by a potential difference between data set ground and business machine ground. To detect the presence of noise potentials, a test should be made using the 6H impulse counter.

**Note:** For information pertaining to the 6H impulse counter, refer to the section entitled 6H and 6HR Impulse Counters (J94006H and

J95006HR)—Description, Operation, and Maintenance (103-620-101). If the 6H impulse counter is not available, a 6A impulse counter may be used. For information pertaining to the 6A impulse counter, refer to the section entitled J94006A (6A) Impulse Counter—Description, Operation, and Maintenance (103-620-100).

**2.02** The 6H impulse counter is connected and the test is performed as follows:

- (1) Use a 2W6A test cord or equivalent (310 plug on one end, alligator clips connected to tip and ring on the other end). Connect the 914-type DTS connector A to the customer connector on the data set mounted in the 40B1 data mounting. The 39A1 data mounting does not have a customer connector. Connect the 914-type DTS connector B to the data set connector on the business machine. This test assumes that protective ground from the business machine appears at the customer interface on pin 1.
- (2) On the 914-type DTS, remove all programming pins from the matrix. Pull up all A and B interface selector switches.
- (3) Connect one clip of the 2W6A cord to switch 1B and the other clip to any clean, bare metal point on the data mounting. Verify that power is applied to the data set and business machine.  
  
**Note:** A clip lead may be needed to extend one of the 2W6A cord leads into the cabinet.
- (4) Insert the 310 plug into the 310 MEAS jack on the 6H impulse counter.
- (5) On the 6H impulse counter, set the DIAL-MEAS switch to MEAS and set the DBRN dial to 90.

## SECTION 592-861-500

- (6) Reset the counter on the 6H impulse counter to 0.
  - (7) Set the minutes control to 15. After the 15-minute test has elapsed, record the number of indications on the counter.
  - (8) Remove the clips of the 2W6A cord from switch and the frame of the data mounting.
  - (9) Connect one of the clips to switch 7A and the other clip to switch 7B (on the 914-type DTS) if the 40B1 data mounting is used. If the 39A1 data mounting is used, connect one clip to pin 7 on the 908C connector (at the rear of the mounting) and the other clip to switch 7B on the 914-type DTS.
  - (10) Reset the counter on the 6H impulse counter to 0.
  - (11) Position the minutes control to 15. After the 15-minute test has elapsed, record the number of indications on the counter.
- 2.03** At the end of both the 15-minute periods, there should be no indications on the counter of the 6H impulse counter. If there is an indication

on the counter, the grounds must be bonded together according to local instructions. At the end of the test, disconnect the test equipment and restore the data set to pretest condition.

### 3. REFERENCES

**3.01** The following documents may be referred to for information needed to maintain or test Data Set 202T, 39A1 and 40B1 data mountings.

SECTION	TITLE
666-511-502	Test of Data Services Provided by Data Set 202T from a Private Line Test Room
592-031-300	Data Set 202T Transmitter-Receiver—Maintenance
592-031-500	Data Set 202T Transmitter-Receiver—Test Procedures
592-861-300	Data Station Using Data Set 202T—Maintenance