

DATA SET 205B-TYPE TRANSMITTER-RECEIVER MAINTENANCE

1. GENERAL

1.01 This practice provides maintenance procedures for the Data Set 205B. Test procedures are contained in Data Set 205B-Type Transmitter-Receiver, Test Procedures (Section 592-017-501).

1.02 This section is reissued to include Data Set 205B2.

1.03 Schematics and related information are contained in SD- and CD-1D085-01.

2. SERVICE INSTRUCTIONS

2.01 No routine maintenance is required on the Data Set 205B.

2.02 Sets to be held as spare equipment should be tested, tagged, and returned to their original carton for protection. Spare equipment must be ready for immediate use in case of emergency.

2.03 Sets suspected of being in trouble should be tested as directed in Section 592-017-501.

- If data set meets requirements and trouble persists:

- (1) Confirm that business machine and associated cords test satisfactory.
- (2) Check for cord and connector defects.
- (3) Check for intermittent trouble in station wiring, protectors, etc.

- Data sets failing to pass test requirements should be replaced.

- A new data set should be tested end-to-end with the distant end equipment before being turned over for customer use.



When replacing data set, verify that new set is strapped for proper options.

2.04 Sets to be returned to the distributing house should be packed carefully (in original cartons, if available) to protect sets in transit. Properly tag defective sets and printed board assemblies, describing the nature of the trouble as completely as possible.

3. REPLACEMENT PROCEDURES

3.01 Component replacement is limited to printed board assemblies removed during test procedures. Access to the printed boards is available after the cover on each shelf is lifted. Each cover is held in place by a spring-loaded retaining latch at both the lower right and left sides of the cover. Pressing each latch to the side will allow spring-loaded bumpers to push the cover forward enough to permit the finger-tip grip required to lift the cover.

3.02 Removal of the cover to facilitate test procedures is accomplished in a similar manner. Each cover hinge pivot is retained by a spring-loaded clamp. Pressing out on one clamp from inside the data set will release the cover hinge pivot and allow that cover end to release from the data set. The opposite cover hinge pivot will slide from the retaining clamp by moving the cover in the appropriate direction. Replace the hinged cover in the reverse order.

3.03 Printed circuit board assemblies are inserted or removed from the data set using the keyed grooves which are part of the shelf cabinet. The boards are identified on the cover by both location (i.e., 008, 039, etc) and the last three digits of manufacture code (i.e., 175, 182, etc). Reorder boards using the AR code listed in Table

SECTION 592-017-301

A of Section 592-017-101. The grooves are keyed by a black stripe at the top and bottom of the shelf. When inserting a board, align the board edge with both top and bottom keys of the location. Using the key markings prevents misalignment with the mating connector at the rear of the data set. Removal of a printed circuit board requires gripping the front edge with both hands and pulling out in a straight movement.

Caution: Failure to observe and follow board removal procedure may result in a damaged board.

3.04 When necessary replacements have been accomplished on the data set, carefully press the cover into the locked position. A retaining bar on the rear of the front cover holds the printed circuit boards securely in place. Be sure all boards are firmly seated in their respective connector plugs. Press the lower corners of the cover until the retaining latch locks on the cover edge.