

**DATA SET 402C-TYPE**  
**TRANSMITTER**  
**MAINTENANCE**

**1. GENERAL**

**1.01** This section contains information necessary for the maintenance of the Data Set 402C-type. This section does not provide maintenance information concerning the business machine associated with the data set.

**1.02** This section is reissued to update the apparatus numbers shown in Table A.

**1.03** For detailed description of the operation of the Data Set 402C-type, refer to CD- and SD-1D039-01.

**2. MAINTENANCE**

**2.01** Routine maintenance of Data Set 402C-type is not required. However, a test should be made after installation to verify data set operation.

**2.02** Data sets held on company premises as spare equipment must be ready for immediate use in case of trouble. They should be tested, tagged, and placed back in their original cartons for protection.

**2.03** Data sets suspected of being in trouble should be tested as directed by the data test center. See Section 594-019-500.

(a) If data set meets requirements and trouble still persists, perform the following steps.

(1) Confirm that business machine and associated cords test satisfactorily.

(2) Check for cord and connector defects. If trouble is suspected in interface connector or wiring, perform interface tests covered in Section 594-019-500.

(3) Check for intermittent trouble in station wiring, protector, etc.

(4) Refer to data set center for further analysis and instruction.

(b) Data sets failing to pass test requirements should be replaced. The new data set should be tested with the data test center before returning for customer use. When replacing a data set, verify that the new data set is strapped for proper options.

**2.04** Printed wiring board assemblies functions and apparatus numbers are shown in Table A.

**2.05** Tests described in the section entitled Data Set 402C-Type Transmitter—Test Procedures (594-019-500) may be used to identify defective printed wiring boards. Return only the defective boards, rather than the entire data set, to the distributing house for repair.

**2.06** Printed wiring board assemblies should be replaced in the following manner:

(1) Remove power cord and business machine cord.

(2) Remove data set cover in the following manner:

(a) Loosen but do not remove the six captive screws located on data set base.

(b) Lift covers off, rear cover first.

(3) Insert screwdriver into locking bar catch plate.

(4) Turn screwdriver in clockwise motion to release card locking bar.

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- (5) Raise card locking bar to extreme open position.
- (6) Grasp the printed board bracket near top of board and carefully extract by pulling straight up.
- (7) Fit new assembly into positioning grooves and lower assembly until it seats in the connector socket.

**Note:** Do not force assembly into position. Recheck position of assembly and grooves.

- (8) Restore card locking bar to engage locking bar catch plate.

- (9) Replace cover as follows:

- (a) Position retaining wedges so they may easily receive the corner lugs.
- (b) Lower front cover over dial and pushbuttons, slightly tilting cover forward as it lowered.
- (c) Lower rear cover straight down until it rests on the base of the set.
- (d) Tighten captive screws.

- (10) Retest data set as outlined in section entitled Data Set 402C-Type Transmitter—Test Procedures (594-019-500).

**TABLE A**

PRINTED WIRING BOARD DESIGNATION	FUNCTION	PRINTED WIRING BOARD APPARATUS NUMBER	
		OLD CODE	NEW CODE
1	Data Transmitter I	A835143	AS17
2	Data Transmitter II	A835144 AS18	AS84
3	Answer-Back Limiter Mode Control and TE1 Driver	A835145	AS19
4	Answer-Back Detectors and Remote Tester	A835146	AS20
5	Answer-Back Relays	A835147	BW1
6	Miscellaneous	A835148 AT2	AT4
3A	Line Control	3A1 Data Unit	3A2 Data Unit
1B1	Reverse Channel Receiver	1B1 Data Unit	1B1 Data Unit