

DATA SET 402B

RECEIVER

MAINTENANCE

1. GENERAL

1.01 This section covers data set 402B.
It does not contain any information concerning the business machine associated with the data set.

2. MAINTENANCE

- 2.01 No routine maintenance of the data set is required.
- 2.02 For maintenance of the telephone set, refer to existing practices covering 503-type telephone sets.
- 2.03 When trouble is suspected at a receiving station, test as outlined in Section 594-017-500.

- 2.04 If the data set tests satisfactorily, proceed as follows:
- (1) Check for cord and connector defects.
 - (2) Check for intermittent trouble in inside wire, drop, protector, etc.
 - (3) Confirm that the business machine tests satisfactorily.
- 2.05 Data sets failing to pass test requirements should be replaced, or the following procedure may be used to clear the trouble.
- 2.06 Power Supply Test Fails
- (1) Under no-voltage condition, check 0.5-amp fuse on front panel of power supply (Fig. 1).

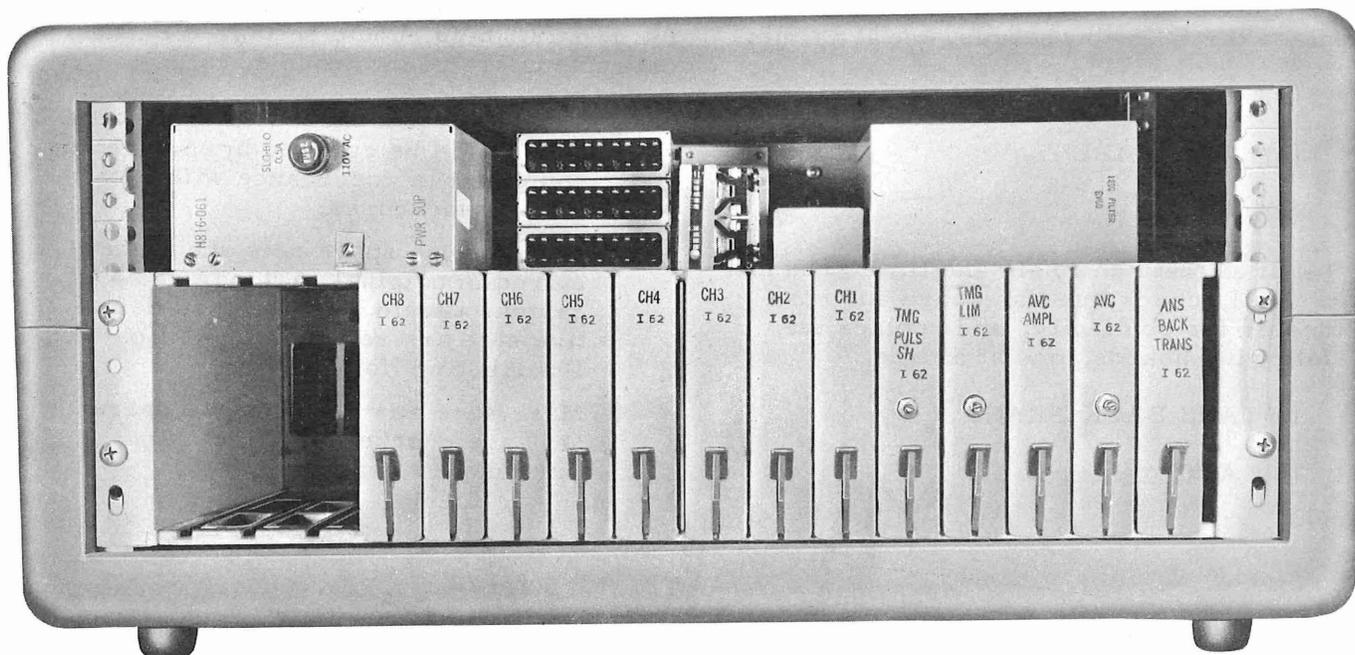


Fig. 1 - Data Set 402B, Front View, Cover Removed

(2) If new fuse fails to hold:

(a) Check for crosses between ground terminal 16 and negative and positive potential terminals 8 and 15 on wiring side of jacks J1 through J16.

(b) Disengage all 13 wiring boards from associated jacks. Connect voltmeter between terminals 8 and 15 of J1, replace fuse, and meter should read approximately 36 volts. Re-engage wiring boards, one at a time, until board causing fuse failure is identified.

(3) If power supply fails to meet voltage test requirements, or fuse failure cannot be cleared by the above, replace the entire set.

2.07 Data Channels Test Fails

(1) Replace wiring board for particular channel in which failure occurred, and retest.

(2) If meter stays at 100,000 ohms during test of timing channel, replace AVC AMPL board and retest.

(3) If timing channel passes test requirements but all data channels fail, replace the following boards, one at a time.

(a) TMG PULS SH

(b) AVC AMPL

(c) AVC

(4) If all data channels and timing channel fail, check interface cord and connector for continuity, and replace the following boards, one at a time.

(a) ANS BACK TRANS

(b) AVC

(c) AVC AMPL

(d) TMG LIM

(e) TMG PULS SH

(5) Replace entire set.

2.08 Answer-Back Transmitter Test Fails

(1) Replace ANS BACK TRANS board.

(2) Replace entire set.

2.09 Listed below is ordering information for replacement wiring boards (Fig. 1).

<u>Circuit</u>	<u>Ordering Information</u>	
AVC	ED-1D102-30	} Printed Wiring Board Assembly
AVC AMPL	ED-1D103-30	
TIMING LIMITER	ED-1D104-30	
PULSE SHAPER	ED-1D105-30	
CHANNEL 1-8	ED-1D106-30, G1-G8	
ANS-BACK TRANS	ED-1D107-30	

2.10 Data sets found defective should be returned to WECO Distributing House for repair. Sets should be tagged to indicate the nature of the trouble.

- Sets which fail shortly after installation should be covered by engineering complaint in accordance with established procedures.
- Maintenance spare sets should be stored in original cartons, and such cartons should be used when defective sets are returned to WECO Distributing Houses.
- Make sure any maintenance spare sets are checked and ready for immediate installation.