

ADDENDUM

Filing Instructions:

File this complete addendum ahead of Page 1 of the section.

“DATASPEED®” PRINTER

RECEIVE-ONLY STATION

CHECKOUT AND TROUBLESHOOTING

1. GENERAL

1.001 This addendum, which supplements Section 578-500-300, Issue 3, is issued to correct some errors and cover the engineering changes incorporated in recent units. These include a new built-in test character generator circuit, a new recorder access lid (added to simplify cleaning paper dust from the recorder nozzles and electrodes), redesign of the paper jam/paper out alarm circuit to substitute a paper-out switch for detection of a paper-out condition using electronic logic, redesign of the line feed motor regulator circuit to allow increasing the fuse value in the paper brake circuit, redesign of the power supply to shut off the high voltage when the +6 v dc fuse is blown and to permit the high voltage to come on immediately after the interlocks are closed, redesign of the paper tensioner mechanism and paper release lever in the paper transport, and modification of the paper unwinder and paper winder.

1.002 - Changes are described in the order they would appear in Section 578-500-300. Paragraphs in this addendum which replace paragraphs in Section 578-500-300 are given the same number as in this section; new paragraphs in this addendum are given the number of the preceding paragraph in the section plus an additional number (for example, 2.061 follows 2.06). Only those portions of Section 578-500-300 which have changes are repeated here.

2. OPERATIONAL CHECKS

LOCAL CHECKS

2.06 For early design units, place the paper release lever at the top right of the transport in the OPEN position and make a pencil mark on the line feed disc (top left of transport). Hold the line feed drive belt to keep it from moving and press the PAPER ADVANCE button for a few seconds. The red paper jam lamp (top left rear of paper transport) should light after the line feed disc has rotated from 1-1/2 to 1-3/4 turns, and the line feed disc should stop rotating at the same time. Depress the lens cap of the paper jam lamp to extinguish the lamp and reset the circuit. Close the paper release lever.

2.061 For late design units a different procedure should be followed. Release the paper bail latch at either side of the transport. The red paper jam lamp (top left rear of paper transport) should light. Raise the paper bail and press up on the paper-out switch so that it clicks. The paper jam lamp should extinguish when this happens. Pull up on the loop forming slide of the paper guide bail (Section 578-500-700) so that the pre-paper puller motor turns on. After a delay of about 1.2 seconds the paper jam lamp should light again. Release both switches and close the paper bail. Depress the lens cap of the paper jam lamp

to extinguish the lamp and reset the circuit. Make a pencil mark on the line feed disc (top left of transport). Hold the line feed drive belt to keep it from moving and press the PAPER ADVANCE button for a few seconds. The line feed disc should rotate from 1-1/2 to 1-3/4 turns and then stop.

2.07 If the requirement in 2.06 or 2.061 that the line feed disc stop rotating after 1-1/2 to 1-3/4 turns is not met, remove the knurled cover and adjust the potentiometer on the right side of the transport frame (clockwise decreases rotation, counterclockwise increases rotation). Press the PAPER ADVANCE button several times before rechecking this requirement.

2.11 Close the front door of the cabinet. The READY lamp should light (approximately 15 to 45 seconds after the front door is closed, on early design units, or immediately after the front door is closed, on late design units), provided there is no paper jam and the door and lid interlock circuit is complete. (The interlock circuit must be complete if the PRINTER ON lamp lights when the PRINTER ON button is depressed while waiting for the READY lamp to light.)

3. TOOLS AND TEST EQUIPMENT

3.02 The ink aspirator (TP334500) is used to clear clogged nozzles and electrodes in the recorder. It may be used with the high voltage on or off, but should only be used after the recorder has been fully warmed up and in the printing mode for about five minutes. To use the aspirator, proceed as follows:

- (1) Remove the cover and the recorder cover and insert the TP330131 jumper in the cover interlock socket (early design units) or open the cover and raise the recorder access lid (late design units).

CAUTION: BE CAREFUL NOT TO COME IN CONTACT WITH THE HIGH VOLTAGE ELEMENTS OF THE PLATEN AND RECORDER, INCLUDING THE CONDUCTIVE STRIP ON THE FRONT EDGE OF THE RECORDER COVER.

- (2) Clean the end of the aspirator with a clean tissue or shop towel.
- (3) Squeeze the bulb, place the slot in the tube over the nozzle to be cleaned, and release the bulb (Figure 3). Do not remove the tube from the nozzle until the bulb is fully released.
- (4) On early design units, connect the DATS1 simulator (3.08) and send continuous characters, send a message from a local sender, or request a message from a remote sender to determine whether the nozzle is cleared. On late design units, release the access lid, close the cover, and depress the PAPER ALARM button (generating continuous W or 2 characters) to determine whether the nozzle is cleared.
- (5) Repeat as required to clear the nozzle.

CAUTION: USE WITH CARE TO AVOID DAMAGE TO THE NOZZLES OR ELECTRODES.

3.061 On late design units, both the nozzle wiper and the electrode cleaner may be used with the cover open and the access lid raised, without removing either the set or recorder cover. Also, as soon as the cover is closed, the nozzle or electrodes can be checked for correct printing by pressing the PAPER ALARM button to generate continuous W (or 2) test characters.

3.07 Add the following note following 3.07:

Note: All power supply fuses have plastic knockouts in the center of the cap (Figure 19). A meter can be used to measure voltages at fuses (through knockouts) with respect to frame to determine whether any voltages are missing or too low.

4. TROUBLESHOOTING PROCEDURE

4.03 Add the following trouble to the end of the list:

Trouble No. 43 Extra line feeds (intermittent)

“DATASPEED” PRINTER (RECEIVE-ONLY) TROUBLESHOOTING CHART

TROUBLE NO. 2

ANALYSIS AND CORRECTION

- b. If READY lamp does not light while button is depressed, either +48 v is not present or READY lamp is burned out. Check +48 v by depressing PAPER ALARM button. If PAPER ALARM lamp lights, but READY lamp does not, the READY lamp is burned out. If neither the PAPER ALARM lamp nor the READY lamp lights, check fuses F2, F9, and (on late design units only) F8 of power supply.

TROUBLE NO. 11

ANALYSIS AND CORRECTION

Check PAPER THROAT adjustment in Section 578-500-700. Check fuse on TP331197 dynamic brake card and fuse F102 on back of transport (3/10 amp SL-BL on early design units, 1/2 amp SL-BL on late design units). If fuses are good, the card is defective.

TROUBLE NO. 12

ANALYSIS AND CORRECTION

Defective TP330152 paper jam card on transport or (on late design units only) paper-out switch out of adjustment.

TROUBLE NO.	TROUBLE OBSERVED	ANALYSIS AND CORRECTION
12a	Test characters not generated when PAPER ALARM button depressed (late design units only).	Replace card TP322192.

“DATASPEED” PRINTER (RECEIVE-ONLY) TROUBLESHOOTING CHART (Continued)

TROUBLE NO. 23

ANALYSIS AND CORRECTION

- a. If all characters are light, go to step b. If only characters in center of page are light, check for proper ink level and fill if necessary (see Trouble No. 21).

TROUBLE NO. 38

ANALYSIS AND CORRECTION

- b. If overprinting occurs in all locations across the page, and line feed is operating normally, check for low ink and fill if necessary. If ink is not low, replace TP331020 high voltage cover assembly (located in the high voltage power supply). See Section 578-500-703 for removal and replacement.

TROUBLE NO.	TROUBLE OBSERVED	ANALYSIS AND CORRECTION
43	Extra line feeds occur intermittently.	Arcing is occurring somewhere in set (DAR, DAT, or DAPS most likely). If last character printed is darker than normal and one to three characters are missing or partly missing before printing resumes, trouble is probably in TP331020 high voltage cover assembly (located in high voltage power supply). See Section 578-500-703 for removal and replacement.

TABLE L

WIRING CHANGES REQUIRED ON CONTROL PANEL AND DAPS/A1 CONNECTOR IF DAPS5 POWER SUPPLY IS REPLACED BY DAPS8 POWER SUPPLY

Add the following line to this table (note new title):

WIRING TO BE CHANGED	ORIGINAL CONNECTION				REVISED CONNECTION			
	FROM		TO		FROM		TO	
	COMP.	TERM.	COMP.	TERM.	COMP.	TERM.	COMP.	TERM.
Black Wire	DAC/H1	2	DAPS/A1	4	DAC/H1	2	DAPS/A1	23

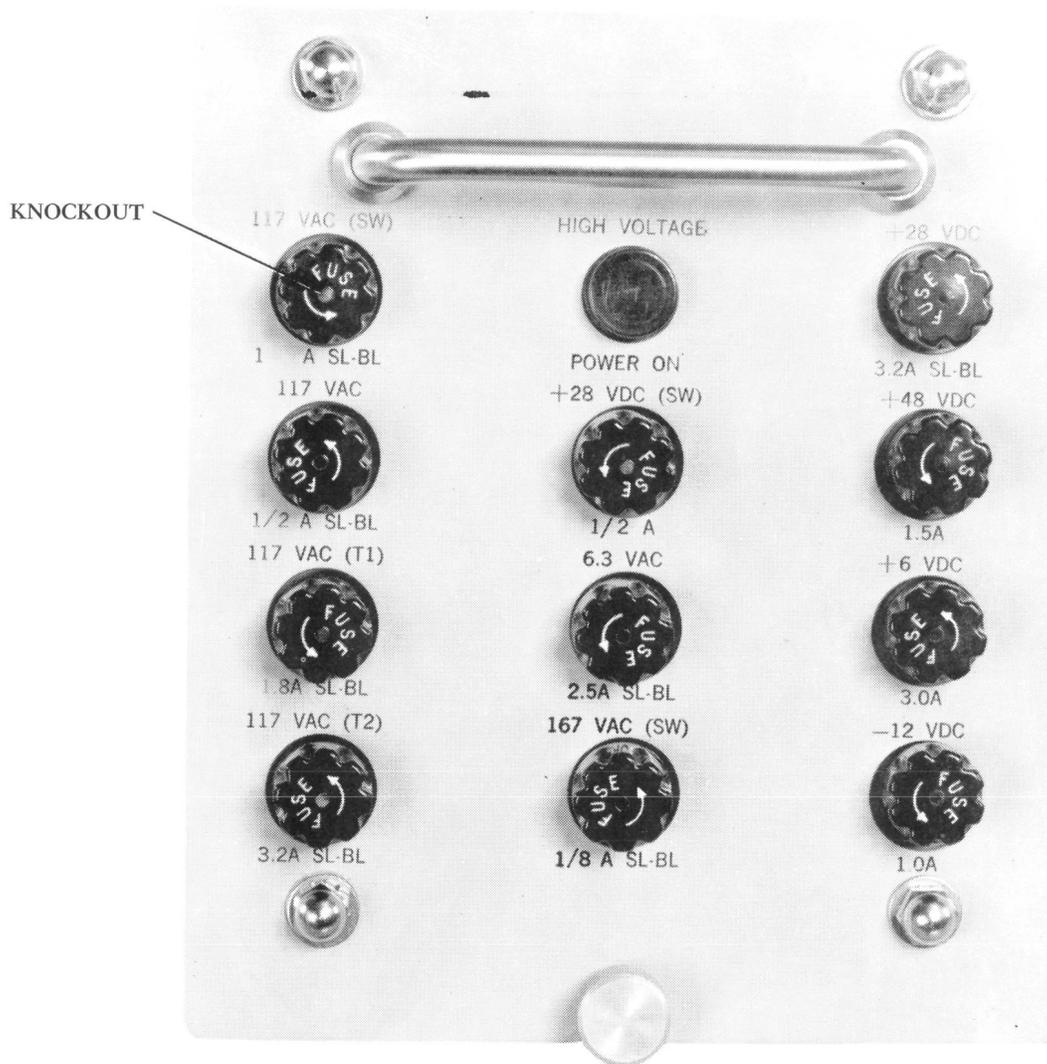


Figure 19 - Location of Knockouts on Power Supply Fuses