

“DATASPEED*” TEST SET TSM 7725S

FOR DATA TEST CENTER

INSTALLATION AND PARTS

CONTENTS	PAGE
1. GENERAL	1
2. INSTALLATION	1
IDENTIFICATION	1
UNPACKING	2
ASSEMBLY, PLACEMENT, AND INTERNAL CONNECTIONS	5
A. Opcon	5
B. Monitor to Printer or Logic Cabinet	5
C. DATASPEED Test Set	6
FIELD OPTIONS	7
3. MAINTENANCE	7
4. PARTS	7
5. REFERENCES	7

1. GENERAL

1.01 This section covers the installation and maintenance of the DATASPEED Test Set TSM 7725S (Fig. 1). The test set is designed for use in Serving Test Centers and Data Test Centers for testing various terminals used in switched network or private line services.

Note: When ordering replaceable components, unless otherwise specified, prefix each part number with letters “TP” (ie, TP410055).

1.02 The previous issue of this section was Issue A and had a printing date of December, 1975. Issue A was previously printed and

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**705421 (formerly 41009) used in place of 410001 processor circuit card.

distributed exclusively by Teletype Corporation, Skokie, Illinois. This issue represents a released printing and can be obtained using normal Bell System ordering procedures. This issue updates Issue A information and adds information for the 7724S Modification Kit. The modification kit adds an EBCDIC line monitoring capability to the test set.

2. INSTALLATION

IDENTIFICATION

2.01 The DATASPEED Test Set TSM 7725S is made up of those major components listed below and illustrated in Fig. 1, 2, 3 and 4.

- Monitor 40MN101/AA
- Logic Cabinet 40CAB251/7725S
- Operator Console 40K101/CAB
- Power Supply 40PSU101
- Display Logic 40DL291/BG**
- Test Set Modification Kit 7723S
- Printer 40P101/AB (Optional)
- Associated Cables

2.02 The test set modification kit 7723S consists of the following major components:

- Printer Cabinet 40CAB201/7725S
- Pedestal 40CAB901/7725S
- 705170 Test Operator Console Assembly
- 401533 34-Inch Table Top
- Power Supply 40PSU101
- 705221 Connector Frame Assembly
- Associated Circuit Cards

2.03 The Test Set Modification Kit 7724S that provides a synchronous EBCDIC line monitoring capability, consists of the following:

- 705262 Data Control Circuit Card (replaces 410002)
- 705269 ASCII/EBCDIC Circuit Card (replaces 705239 ASCII)

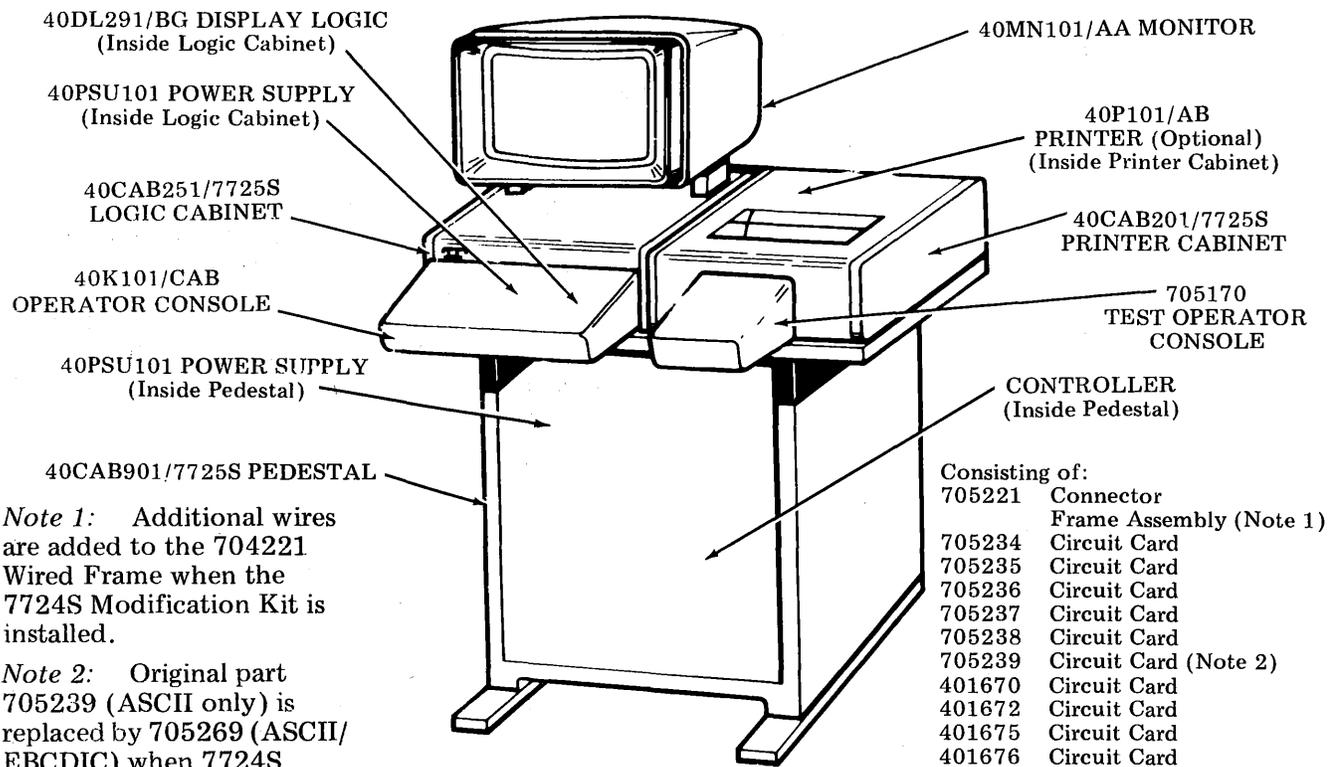


Fig. 1 · DATASPEED Test Set

Note 1: Additional wires are added to the 704221 Wired Frame when the 7724S Modification Kit is installed.

Note 2: Original part 705239 (ASCII only) is replaced by 705269 (ASCII/EBCDIC) when 7724S Modification Kit is present.

- 705420 Cache and Char. Generator Circuit Card (replaces 410657)
- 705421 Edit Control Circuit Card (replaces 410009)
- 340717 Keypad
- 705261 Keypad (EBCDIC)
- 705268 Cable
- 705423 Wire Straps (5 pieces)

UNPACKING (Fig. 5)

2.04 Unpacking procedures are as follows:

- (a) Before unpacking the cartons, confirm unit codes marked on the cartons with those described in 2.01.
- (b) Select an assembly area to unpack the cartons so that damage to the components will not occur.
- (c) When unpacking, be sure to wear approved safety glasses.
- (d) Unpack each carton -- refer to instructions on the container.

Note: Observe all "caution" notes printed on the carton.

- (e) The pedestal should be unpacked first so that the printer (if present) and operator console can be placed on it.

- (f) The polystyrene containers are to be saved and reused (refer to local procedures).
- (g) Assemble set per Assembly, Placement, and Internal Connection instructions.
- (h) Refer to FIMP 579-505-350, 1.17 for tools needed.
- (i) The DATASPEED Test Set TSM 7725S will be shipped from Teletype Corporation as individual units and designated as follows:

- 1 Box -- 40CAB901/7725S (Pedestal) and 401533 (Top, Table 34")
- 1 Box -- 40CAB251/7725S (Cabinet, Logic) and *40DL291/BG (Logic, Display)
- 1 Box -- 40CAB201/7725S (Cabinet, Printer)
- 1 Box -- 40MN101/AA (Monitor)
- 1 Box -- 40K101/CAB (Operator Console)
- 1 Box -- 40PSU101 (Power Supply)
- 1 Box -- 705170 (Test Operator Console Assembly)
- 1 Box -- 40P101/AB (Printer -- Optional)
- 1 Pkg -- Documentation

*705421 (formerly 410009) Destructive Scroll substituted for the 410001 Processor Circuit Card of standard 40DL291/BG Logic Package.

Note: Additional wires are added to the 705221 Wired Frame when the 7724S Modification Kit is installed.

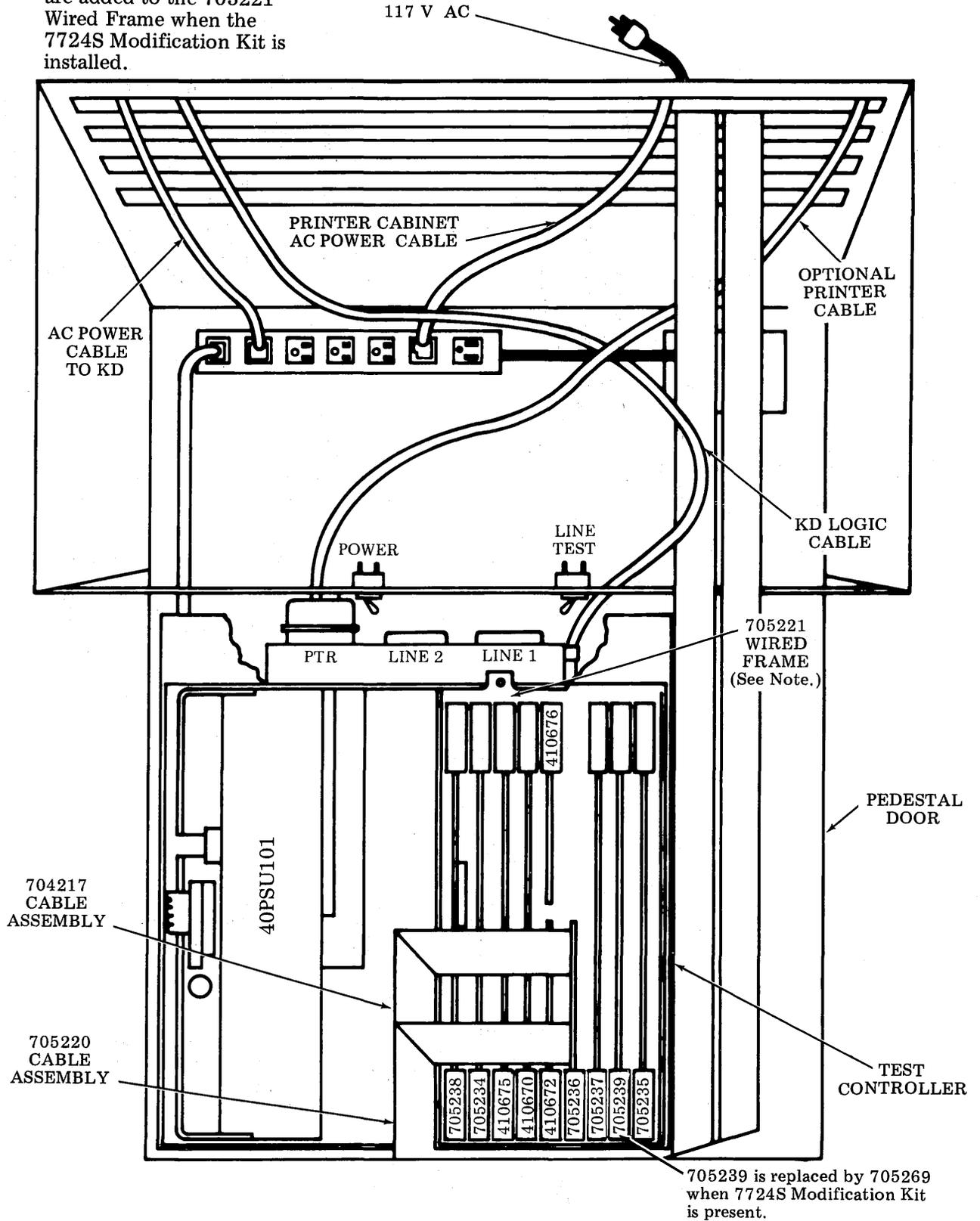


Fig. 2—Controller Card Layout and Pedestal Cable Routing

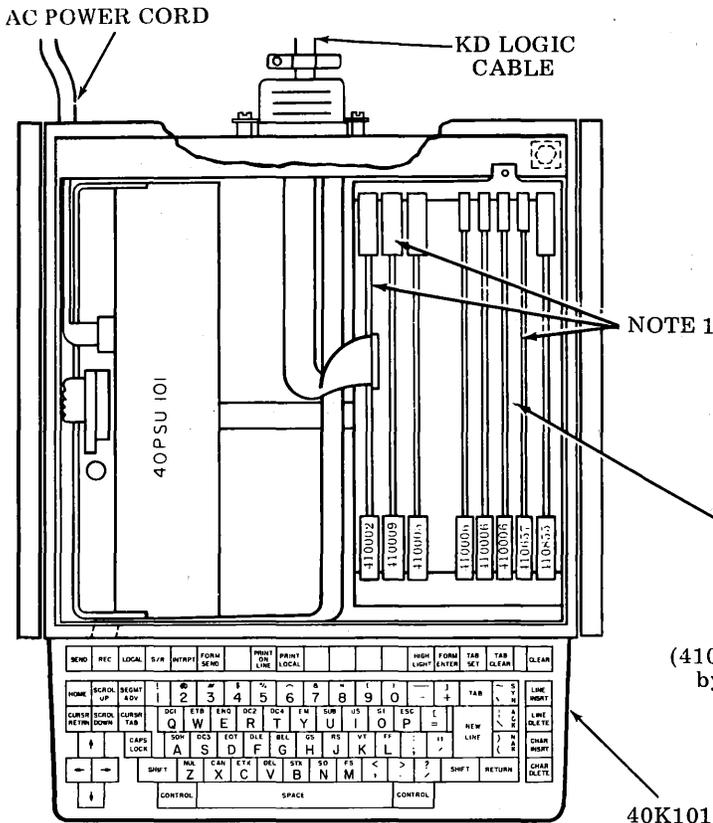


Fig. 3—Display Logic Circuit Card and Keyboard Layout

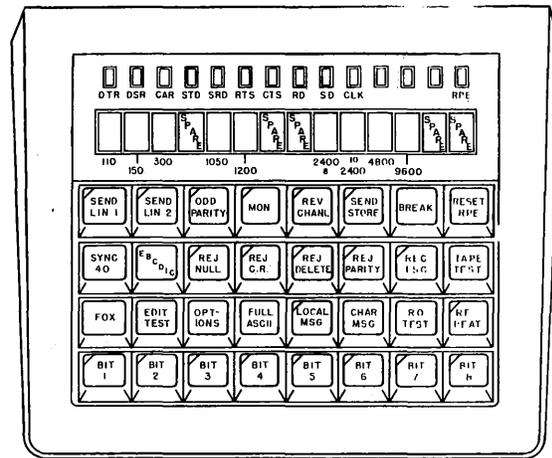
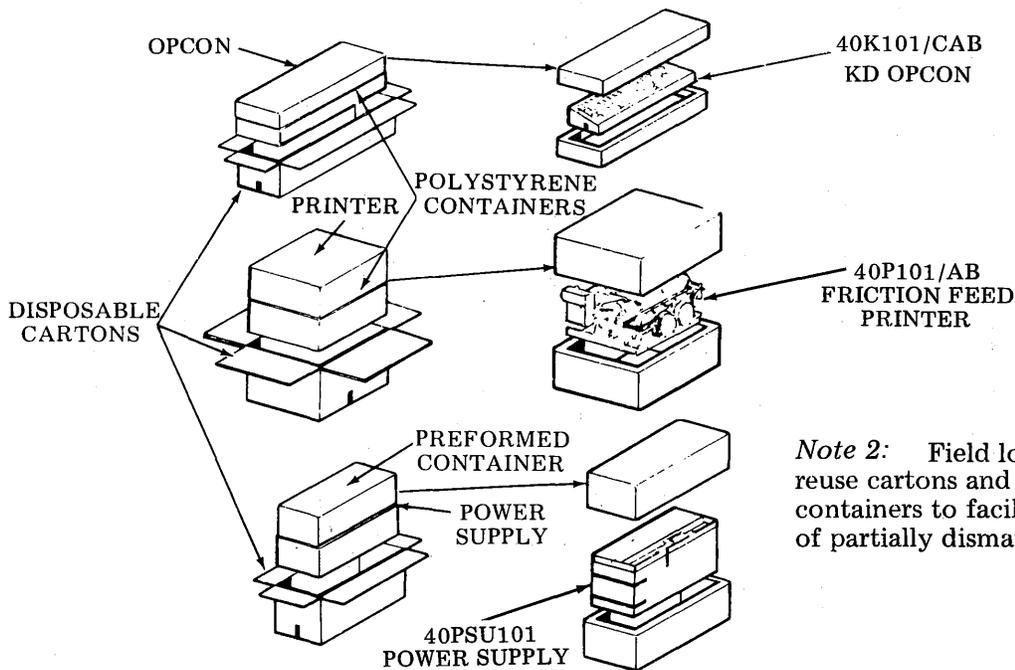


Fig. 4—Test Operator Console Layout

40DL291/BG
DISPLAY LOGIC
PACKAGE
(410001 circuit card replaced
by 705421 circuit card.)

Note 1: When the 7724S
Modification Kit is installed:

705421 replaces 410009
705420 replaces 410657
705262 replaces 410002.



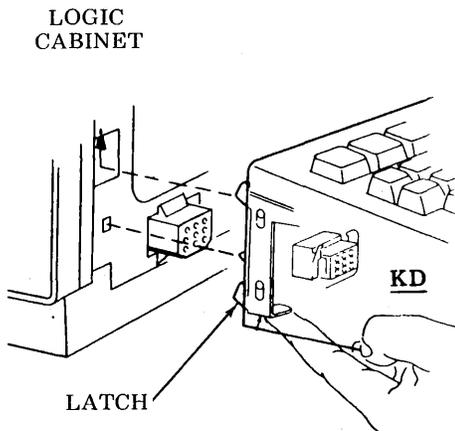
Note 2: Field locations can
reuse cartons and polystyrene
containers to facilitate movement
of partially dismantled sets.

Fig. 5—Polystyrene Packing Arrangements

ASSEMBLY, PLACEMENT, AND INTERNAL CONNECTIONS

A. Opcon (Fig. 6)

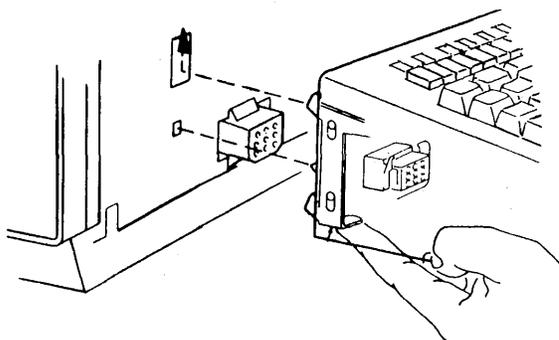
- ① Position opcon so that connectors are aligned and latches on left and right side are fully engaged.



- ② Slide latches upward and check that opcon is firmly attached on both sides before releasing.

40K101/CAB
OPCON

705170
TEST OPERATOR
CONSOLE



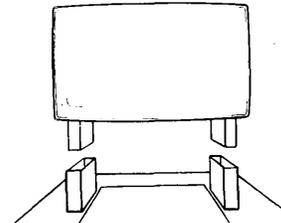
10CAB201/7725S
PRINTER CABINET

Fig. 6

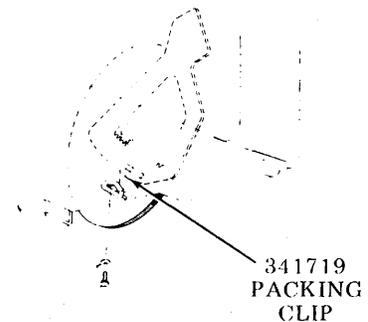
B. Monitor to Printer or Logic Cabinet (KDP or KD)

Install the monitor in the sequence shown (Fig. 7):

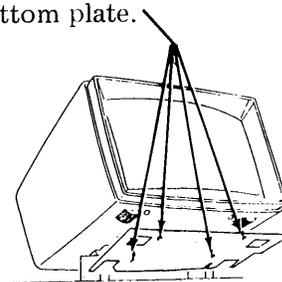
- ① Place the monitor on its corresponding posts (there is no locking device associated with the monitor support posts, ie, it can be lifted off without releasing any latches).



- ② Tilt the monitor back and remove the 341719 packing clip from the tube tilt mechanism. Retain the clip for future repacking.



- ③ Install the plastic bottom plate (packed separately) — snaps on with 4 studs that are part of the bottom plate.



Note: Installation of the monitor is the same whether the printer or logic is mounted under the monitor.

Fig. 7

C. DATASPEED Test Set (Fig. 8)

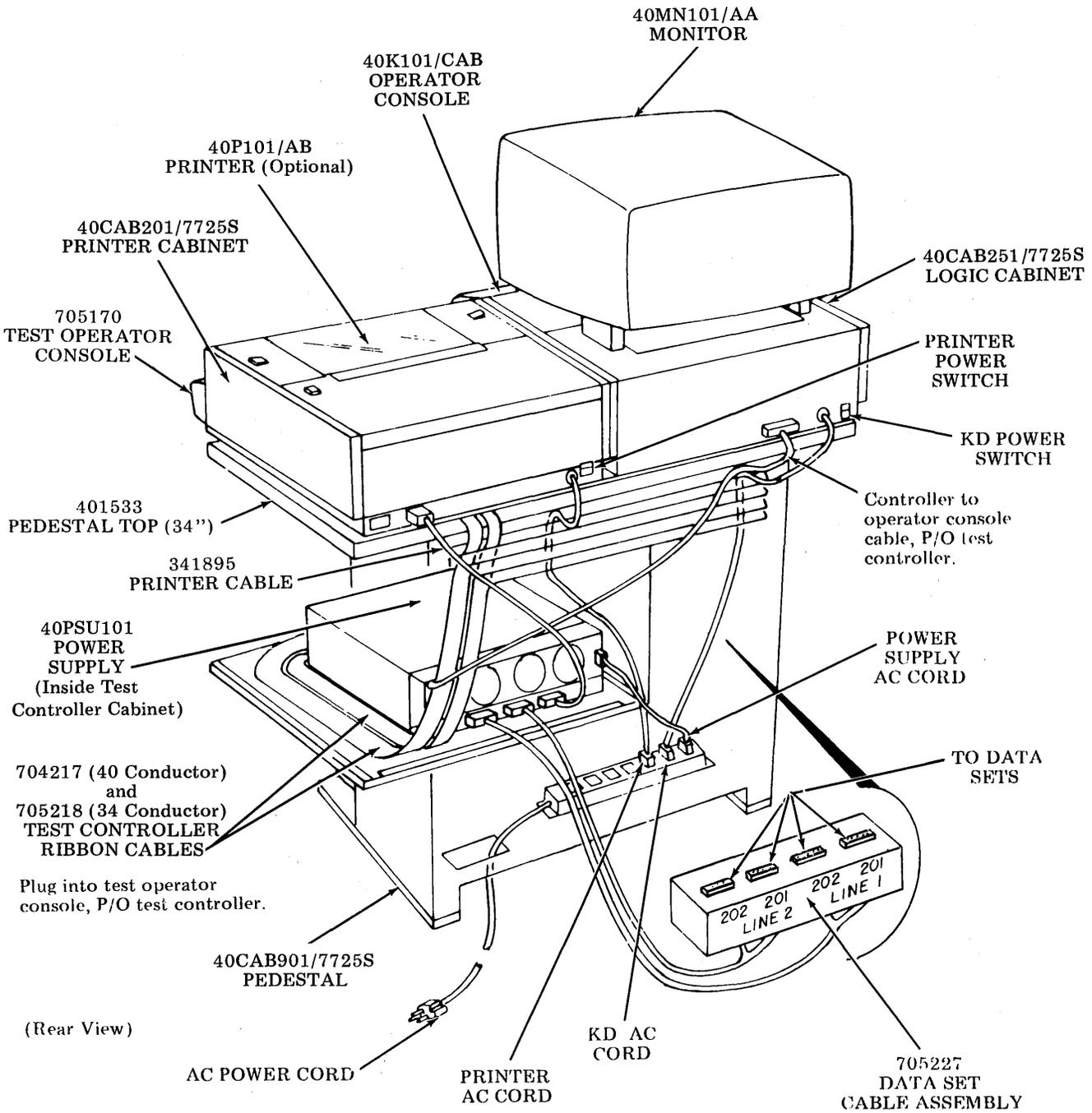


Fig. 8

FIELD OPTIONS

2.05 There are no options except for those programmable through the test operator console keys. These options are programmed to be compatible with the station under test. Refer to Section 107-803-100 for a description of these options. Refer to the applicable data set BSPs for information pertaining to options.

3. MAINTENANCE

3.01 Refer to FIMP 579-505-350, Part 8 for Routine Maintenance and Part 4, Troubleshooting for the standard DATASPEED 40 components of the test set, ie, printer, keyboard and monitor. Refer to Fig. 1, 2, 3 and 8 of this section for parts location.

4. PARTS

4.01 In the event that it becomes necessary to repair major components, circuit cards or cables, all parts except those listed in 4.02 should be repaired through routine channels; ie, local Telephone Company or Western Electric Company repair facilities. Refer to FIMP 579-505-350 for parts location.

4.02 The following parts needing repair should be returned directly to Teletype Corporation, Department 9331. The shipping carton shall be labeled:

“DATASPEED Test Set TSM 7725S
SPECIAL PART(S) Returned for Repair.”

704217 Cable Assembly, 40 Conductor
(Fig. 2 and 8)
* 705170 Operator Console Assembly, Test
(Fig. 1 and 8)
705220 Cable Assembly, 34 Conductor
(Fig. 2 and 8)
705221 Frame Assembly, Connector
(Fig. 1 and 2)
705227 Cable Assembly, Data Set (Fig. 8)
705234 Circuit Card (Fig. 1 and 2)
705235 Circuit Card (Fig. 1 and 2)
705236 Circuit Card (Fig. 1 and 2)
705237 Circuit Card (Fig. 1 and 2)
705238 Circuit Card (Fig. 1 and 2)
705239 Circuit Card (Fig. 1 and 2)
** 705262 Circuit Card

*This part may be repaired or replaced at the option of Teletype Corporation.

**Part of 7724S Modification Kit

** 705269 Circuit Card
** 705420 Circuit Card
** 705421 Circuit Card
40CAB201/7725S Cabinet, Printer (Fig. 1 and 8)
40CAB251/7725S Cabinet, Logic (Fig. 1 and 8)
40CAB901/7725S Pedestal (Fig. 1 and 8)

5. REFERENCES

5.01 The following list provides the section number and description of Bell System Practices that support the DATASPEED Test Set and the various terminals tested by the DATASPEED Test Set.

<u>BSPs</u>	<u>DESCRIPTION</u>
107-803-100	DATASPEED Test Set TSM 7725S for Data Test Center — Description and Operation
579-505-350	DATASPEED 40 Switched Network FIMP (EIA or PTI Sets or Stations)
579-505-352	DATASPEED 40 Private Line (BISP) Station Arrangements
579-505-353	9140/DATASPEED 40 FIMP
579-505-354(P)	Synchronous DATASPEED 40 FIMP
582-100-515	DATASPEED Tape-to-Tape System Type 2 Senders and Receivers Test Procedures With a DTC Using a DATASPEED Test Set
582-200-001	Synchronous DATASPEED 40 System — Description and Operation
668-120-502	DATASPEED Type 2A Tape Sender Station — Test Procedure Using DATASPEED Test Set

SECTION 107-803-300

- 668-121-502 DATASPEED Type 2B Tape Receiver Station — Test Procedure Using DATASPEED Test Set
- 668-122-500 DATASPEED Magnetic Tape — Test Procedure Using DATASPEED Test Set
- 668-125-500 DATASPEED 40 Switched Network Service — Test Procedure Using DATASPEED Test Set
- 668-125-501 DATASPEED 40 Private Line BIS — Test Procedure Using DATASPEED Test Set
- 668-125-502 DATASPEED 40 With 9140 Station Controller for Private Line — Test Procedure Using DATASPEED Test Set

- 668-125-503 Synchronous DATASPEED 40 — Test Procedure Using DATASPEED Test Set
- 668-126-500 2510-2511 CDT for Private Line BIS — Test Procedure Using DATASPEED Test Set
- 668-127-500 DATASPEED RO, Inktronic Page Printer — Test Procedure Using DATASPEED Test Set

Note: (P) Denotes Preliminary; availability of publication using standard ordering procedures not known at the time of this printing.