"DATASPEED*" 40 ENVIRONMENTAL ENCLOSURES

INSTALLATION AND MAINTENANCE

CONTENTS PAGE

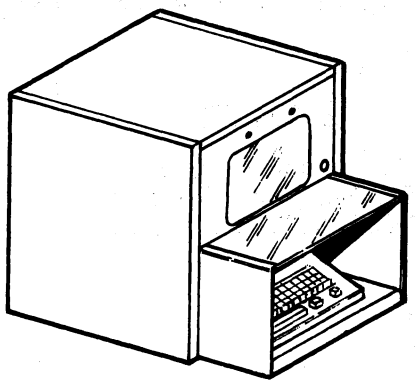

Fig. 1—KD Enclosure (Table Mounted)

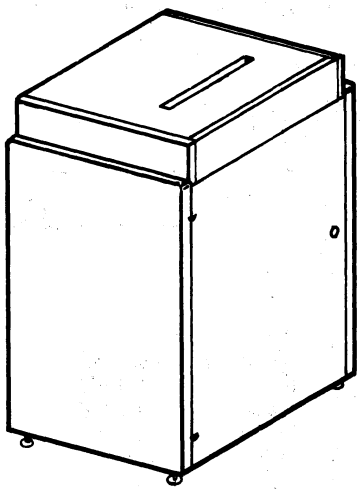

Fig. 2—Printer Enclosure (Floor Mounted)

1. GENERAL

1.01 This section provides installation and maintenance information for DATASPEED 40/4 Environmental Enclosures (Fig. 1 and 2) which extend the use of DATASPEED 40/4 terminals to high stress environments of industrial and manufacturing locations. The enclosures are used in areas characterized by the occurrence of certain airborne environmental hazards.

1.02 This section is reissued to include minor design changes and corrections. Marginal arrows are used to indicate changes and additions.

1.03 The use of the enclosures are presently limited to the following 40/4 DATASPEED applications:

Description	USOC for 40 Apparatus	USOC for Enclosure
Free-Standing Keyboard-Display (KD) Terminals	4TPX+ Plus 4EANM	4EK
80-Column Tractor Feed Printer Terminals	4TLXD Plus 4TRX+	4EPXA
132-Column Tractor Feed Printer Terminals	4STX+	4EPXB

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Prepared for American Telephone and Telegraph Company by Teletype Corporation

1.04 The KD enclosure provides space for a Keyboard-Display Amplifier (KDA), remote operator console and monitor (Fig. 7). The 80- and 132-column tractor feed printer enclosures provide space for the printer without cabinet, printer mounting hardware and paper storage (Fig. 8 and 9).

1.05 Spare enclosures may be ordered through standard Western Electric ordering procedure. The enclosure's description and Uniform Standard Ordering Codes (USOC) are listed below:

Description	USOC for 40 Apparatus	USOC for Enclosure
KD Environmental Enclosure	4TPX+	4EK
80-Column Printer Enclosure	4TLXD and 4TRX+	4EPXA
132-Column Printer Enclosure	4STX+	4EPXB

2. WIRING

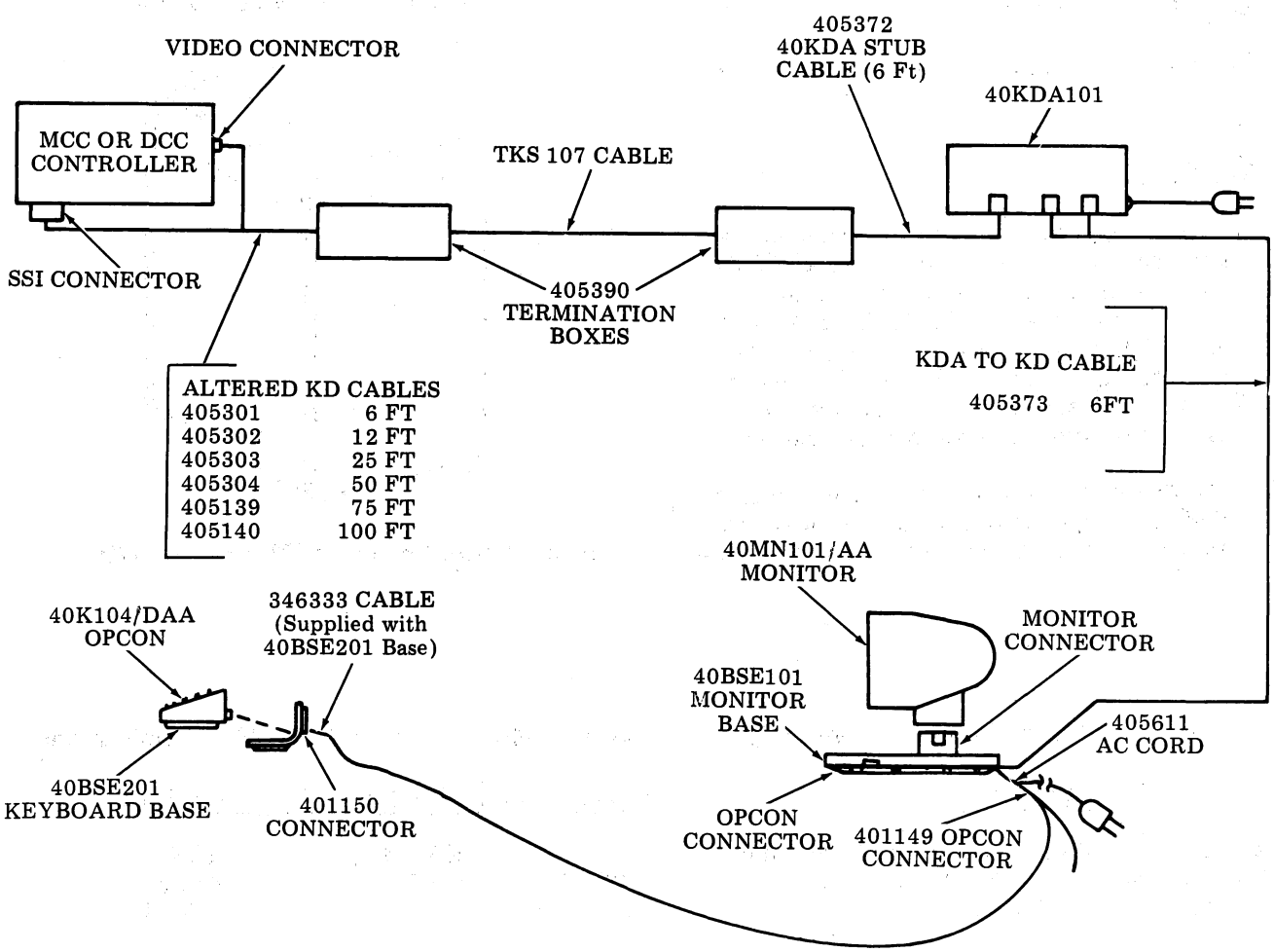


Fig. 3 Controller-KDA-Free Standing KD

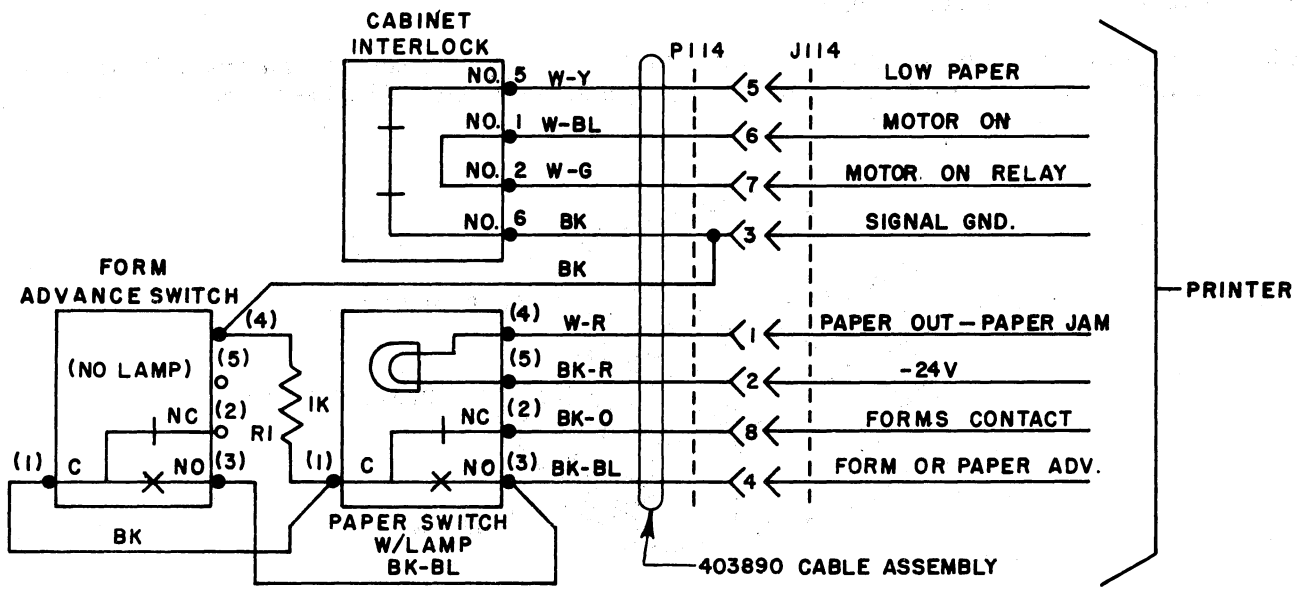


Fig. 4—Tractor Cabinet Interlock, Form Advance, and Paper Switches

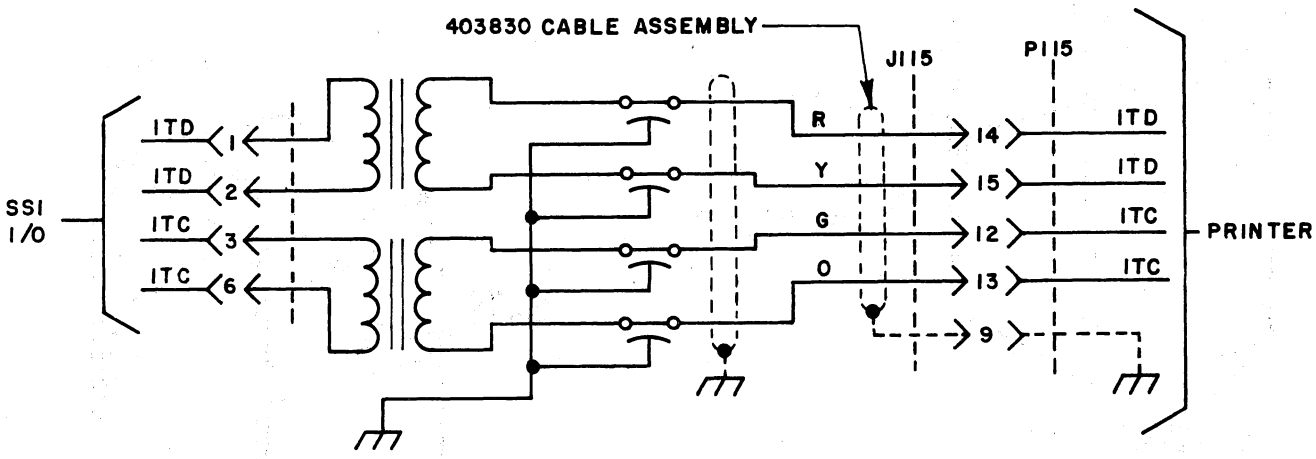
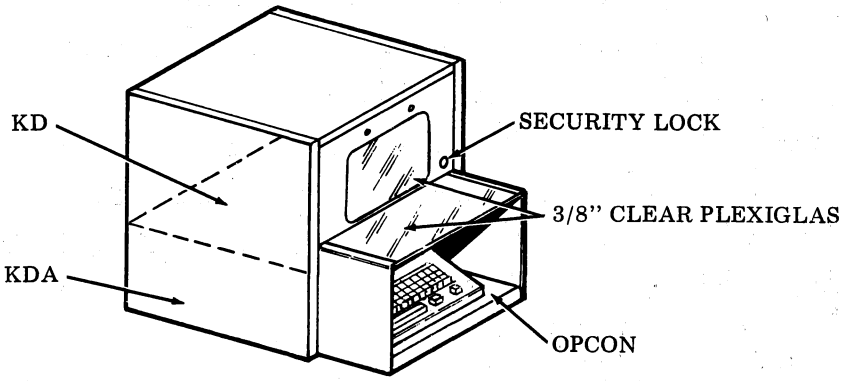


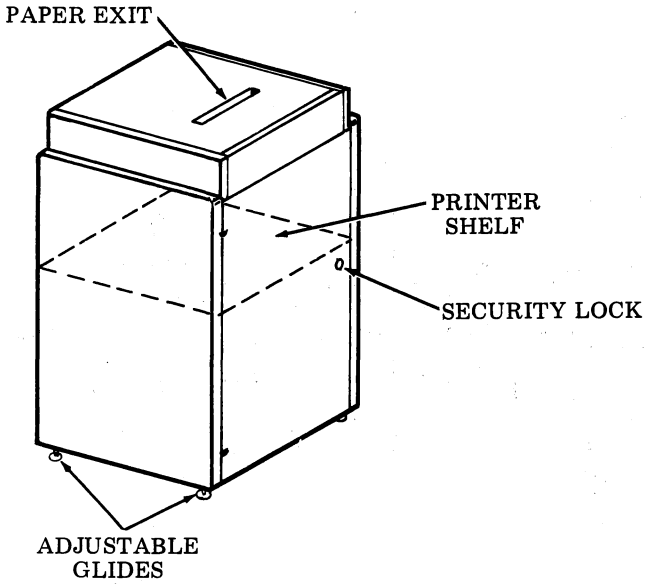
Fig. 5—Tractor Cabinet, 405075 SSI Cable With Bracket

3. ENCLOSURE IDENTIFICATION

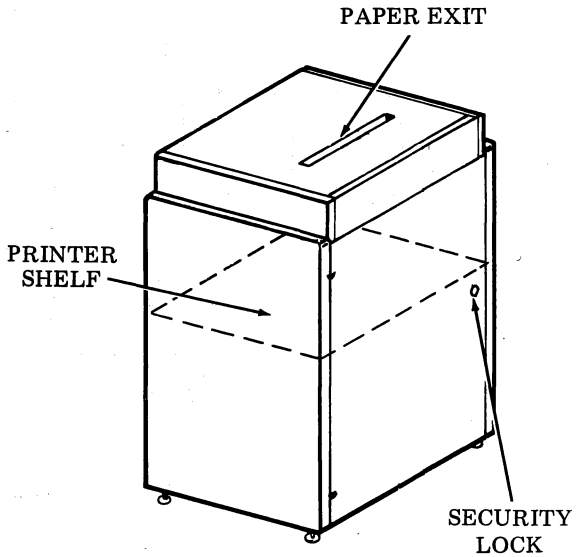
3.01 Identification of the DATASPEED 40/4 Environmental Enclosures is important to the Service Center or field craftsperson. The three enclosures are provided in Fig. 6 as shown.



USOC 4EK
KD Environmental Enclosure



USOC 4EPXA
80-Column Environmental Enclosure



USOC 4EPXB
132-Column Environmental Enclosure

Fig. 6

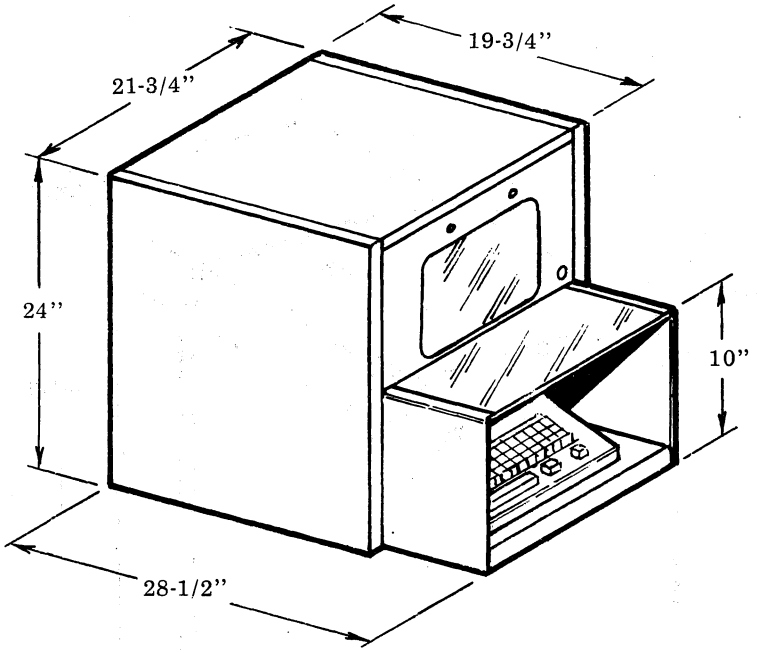


Fig. 7—KD Environmental Enclosure (USOC 4EK)

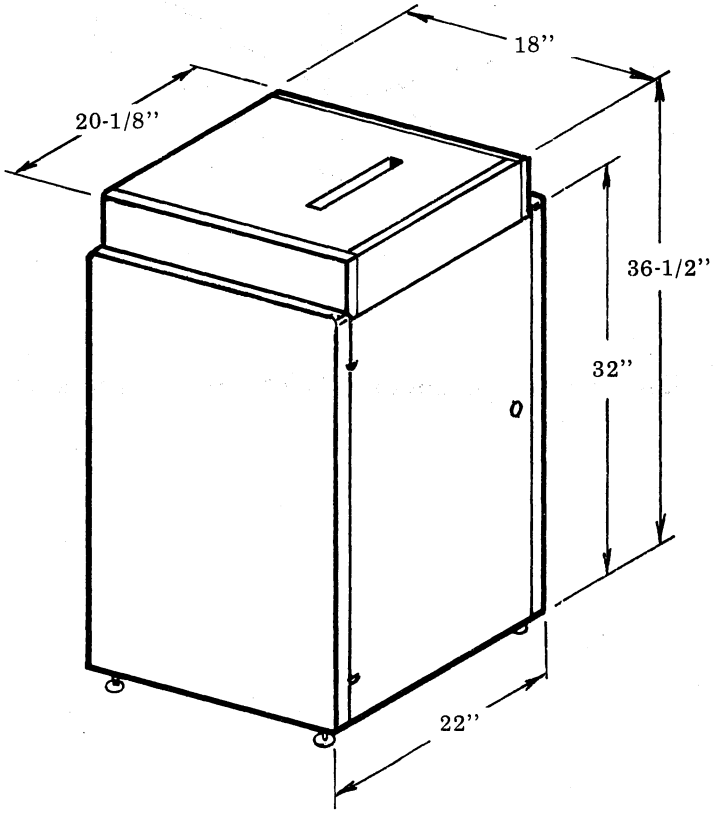


Fig. 8—Environmental Enclosure — 80-Column (USOC 4EPXA)

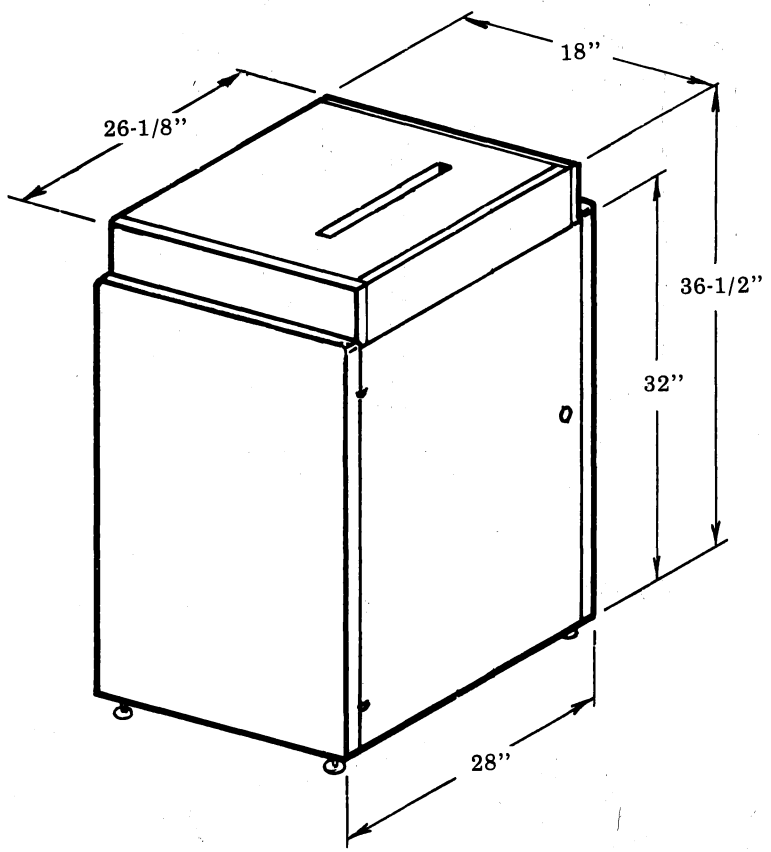


Fig. 9—Environmental Enclosure — 132-Column (USOC 4EPXB)

4. INSTALLATION

Note: The Filter Assemblies shall have a minimum of one foot clearance from any obstructions. Enclosure locations shall insure easy filter access to maintenance personnel.

4.01 To install 80- and /or 132-column printer in enclosure (Fig. 10):

Caution: Due to weight consideration, two people are required to handle enclosure.

① Unlock and open enclosure door.

② Lift printer by its frame; fit printer to printer guide and slide printer back on shelf.

③ Connect SSI, controls and ac power cables to printer.

④ Insert paper through printer using instructions on top of printer.

⑤ Turn power on at wire mold strip.

Note: Insure that two muffin fans are plugged in and running.

⑥ Feed paper through enclosure lid; close and lock enclosure door.

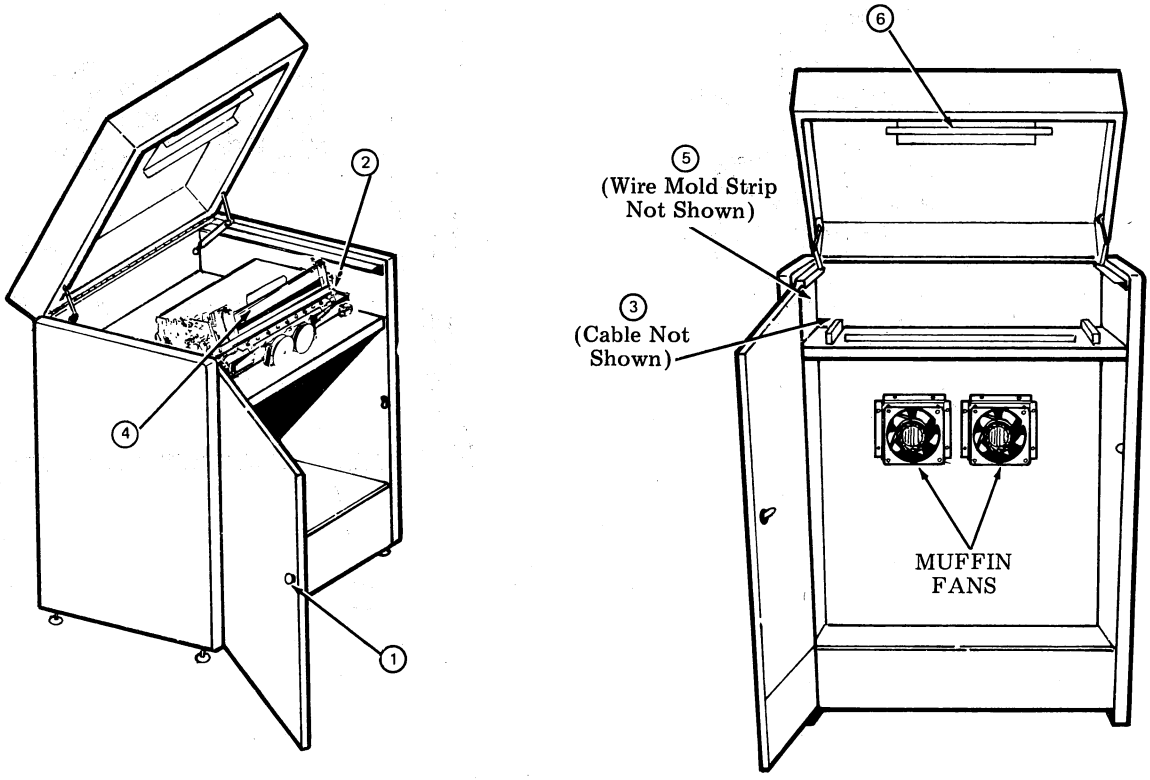


Fig. 10

4.02 To install KD, KDA and Opcon in enclosure (Fig. 11):

Warning: Wear approved safety glasses when handling the display monitor. Turn OFF all ac power and signal sources when installing the display monitor into the KD enclosure. Similarly, turn OFF all power and signal sources when removing or replacing components.

→ ① Unlock the KD enclosure; open the hinged front projection.

② Install KD on shelf and secure KD to shelf → using hardware provided (two bolts, nuts and → washers).

③ Mount KDA under movable shelf. Connect KD to KDA and KDA to controller connection.

→ ④ Mount opcon on front closure, making sure to route opcon cable to the front of movable shelf.

⑤ Connect opcon cable to KDA.

⑥ Turn power on at wire mold strip.

Note: Insure that two muffin fans are plugged in and running.

⑦ Close and lock enclosure door.

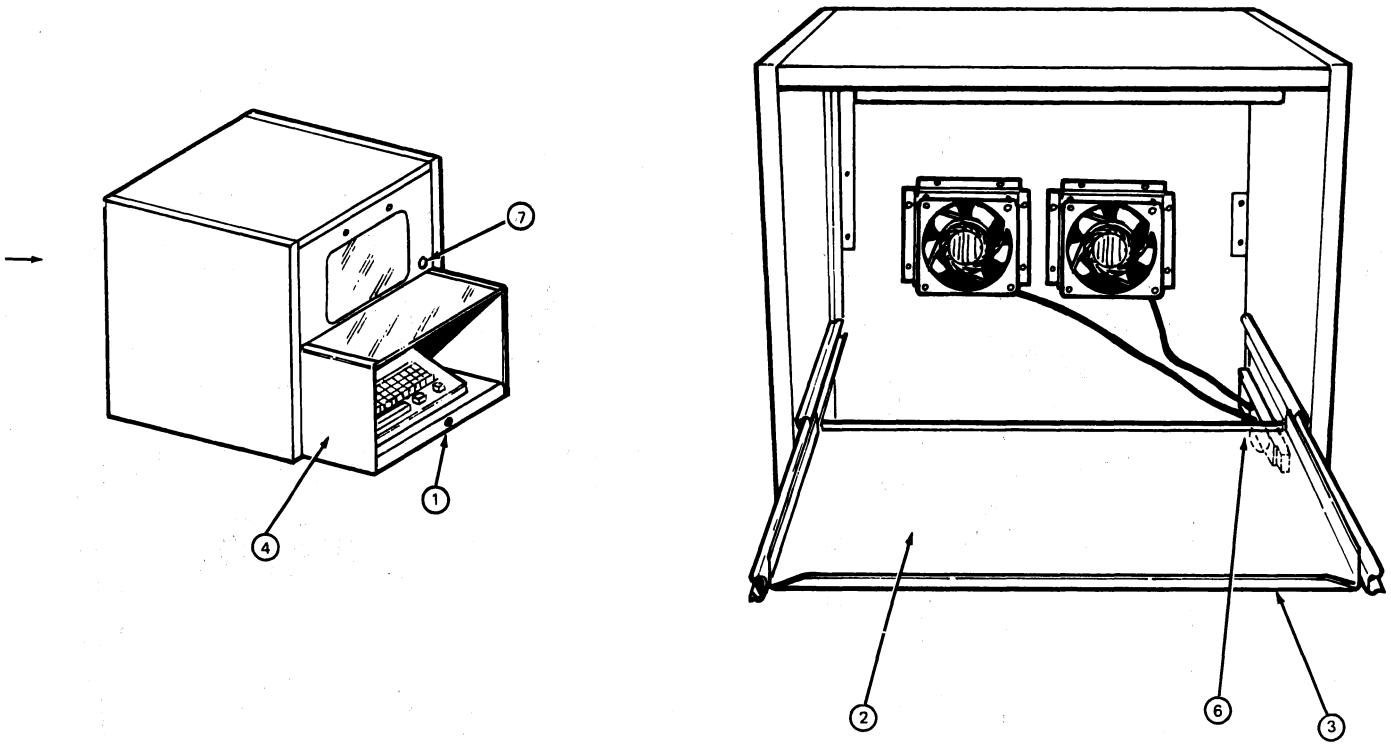


Fig. 11

5. TECHNICAL DATA

5.01 The electrical requirements of the DATASPEED 40 equipment are not affected by the environmental enclosures. AC power to the enclosure is provided by an eight foot utility cord.

5.02 The enclosures are furnished with four grounded ac outlets which provide power for the fans, KD, KDA, printer and test equipment.

5.03 If Occupational Safety and Health Act (OSHA) or local electrical code requirements prohibit the use of a utility cord, provision is made for customer-furnished conduit connections to the enclosures. All electrical connections and interfaces normally found in the printer cabinet are provided with the printer enclosures.

5.04 The physical dimensions are shown in Fig. 7, 8 and 9. The colors of the enclosures match the black and silver DATASPEED 40 colors. Enclosure weights are as follows:

USOC for 40 Apparatus — for Enclosure		Description	Weight
4TPX+	4EK	Model 40/4 KD Enclosure	80 pounds
4TLXD and 4TRX+	4EPXA	Model 40 80-Column Printer Enclosure	90 pounds
4STX+	4EPXB	Model 40 132-Column Printer Enclosure	120 pounds

5.05 The station cable connections and interfaces are not affected by the use of the enclosures except for, KDA to KD cable is restricted to TP405373 Cable assembly to minimize congestion in enclosure.

5.06 This equipment is intended to be operated under the following environmental conditions:

Hot — up to 110° F
Humid — up to condensing rain
Dirty — Dusty, Oily, Corrosive

To avoid heat buildup which will cause equipment failures, all enclosures are equipped with one 10 x 16 inch two-stage mechanical filters and two ventilating muffin fans. This prevents drawing in dirt and disperses the following heat dissipated for the DATASPEED 40 equipment. The filter second stage consists of activated charcoal filters. If the operating company can determine that corrosive atmosphere does not exist, the charcoal filter may be removed.

		Heat Dissipation
(4EK)		
KD Enclosure —	Display Monitor	400 BTU/hr
	Opcon	70 BTU/hr
	Keyboard-Display Amplifier	40 BTU/hr
		510 BTU/hr
(4EPX+)		
Printer Enclosures —	Printer	345 BTU/hr

5.07 The enclosures are constructed of laminated-tempered high-density particle board, sheet metal and plexiglas. The KD enclosure is table or desk mounted and is equipped with a removable front panel for access to the display monitor and KDA.

5.08 Plexiglas panels provide visual access to the monitor and operator console (Fig. 12). Operator access to the opcon is provided through an opening in front of the enclosure. A 5/16 inch hole is provided in the base of the KD enclosure to allow securing the enclosure to the customer-provided support with a 1/4 inch bolt.

5.09 The printer enclosures are floor mounted and provided with paper or form storage in the lower portion (Fig. 12). Printed copy exits the enclosure through a slotted panel which provides a tear-off strip. They are also equipped with locks to prevent tampering or unauthorized access to printer, display monitor, KDA or electrical connections. Customer will assume responsibility for enclosure keys.

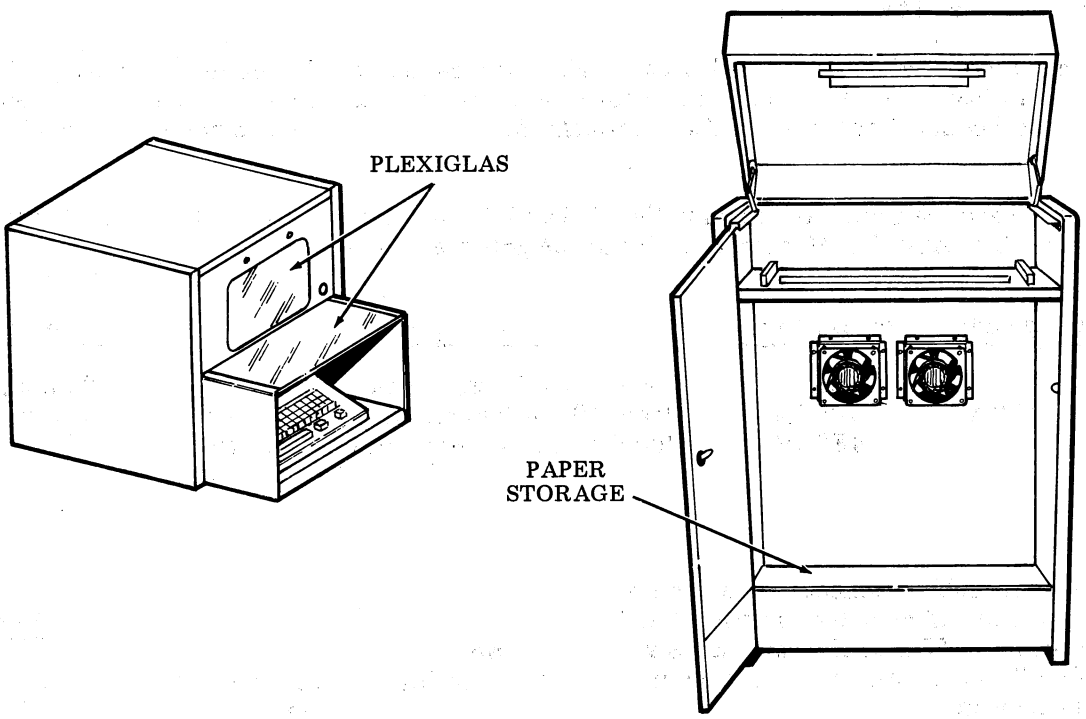


Fig. 12

6. ROUTINE MAINTENANCE

6.01 Routine maintenance on the enclosures is to be performed by the telephone company once a month or as dictated by environmental conditions.

Caution: Turn set ac power off prior to any maintenance on KD, KDA and printer.

6.02 Before cleaning interior make sure that exterior surface is vacuumed and wiped clean of dirt and other foreign matter.

(a) Clean all ventilating screens; use a soft bristled brush to remove debris while vacuuming.

(b) Clean exterior surfaces:

① Wash with mild detergent solution.

② Rinse with damp cloth.

③ Buff dry with soft cloth.

Caution should be used when cleaning the 3/8 inch clear plexiglas shielding to avoid nicks and scratches. Use a very mild detergent solution, luke warm water and a soft cleaning cloth to clean the plexiglas shields.

6.03 The opcon, KDA and monitor should be removed to throughly clean the KD enclosure interior (Fig. 13).

→ ① Unlock and open fron cover assembly.

② Disconnect opcon cable from KDA and remove opcon.

③ If necessary, disconnect monitor and controller cables from KDA and remove KDA.

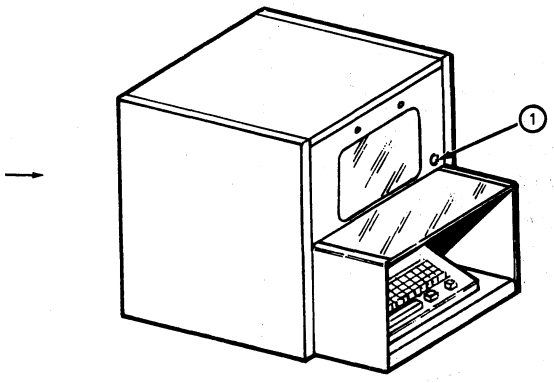
→ ④ Carefully slide monitor forward, remove hold down bolt and lift out.

⑤ Throughly vacuum and wipe all foreign matter from interior of enclosure. It is not necessary to remove utility strip to clean interior.

Note: Insure that muffin fans are clean and in good operating condition.

⑥ Brush and/or wipe any foreign material away from the KDA, monitor and opcon before reinstalling in enclosure.

6.04 Dynell fabric filters shall be replaced monthly or at such frequency as local conditions dictate. If the aluminum filter frame shows no signs of excessive deterioration, the Dynell filter element shall be replaced. If the filter frame does show signs of deterioration, the filter assembly shall be replaced. Reference 6.07 and 6.08.



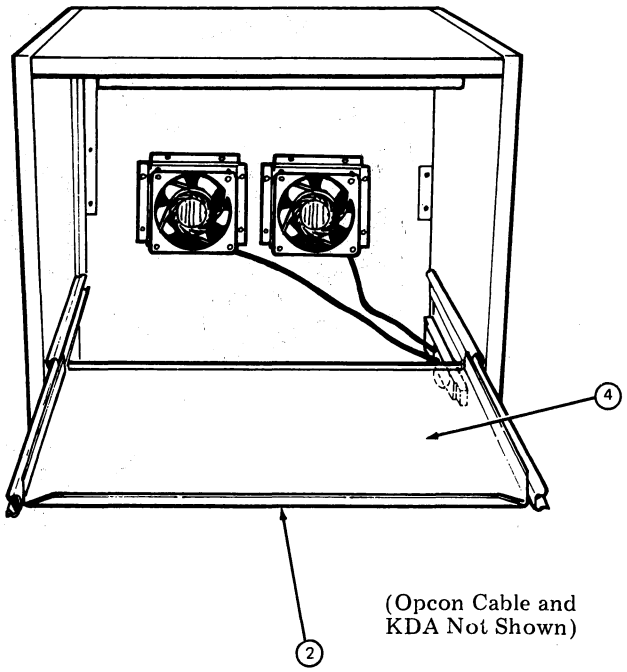


Fig. 13

6.05 The 80- and 132-column printer must be removed to thoroughly clean the printer enclosure interior.

① Unlock and open enclosure door.

② Remove paper supply.

③ Disconnect power, signal and control cables from printer.

④ Lift printer out of enclosure.

Note: Refer to 6.02 and 6.03 ⑤ for interior and exterior cleaning procedures.

6.06 Refer to DATASPEED 40 Printer Routine Maintenance Section 582-210-750 for printer maintenance.

6.07 The 10 x 16 inch two-stage filter assembly may be removed by removing the snap in housing bracket located in rear of enclosure (Fig. 15.)

6.08 The 10 x 16 inch Dynel Filter element may be removed by pulling on the center of the element. The new element is fitted to the channels of the existing aluminum frame.

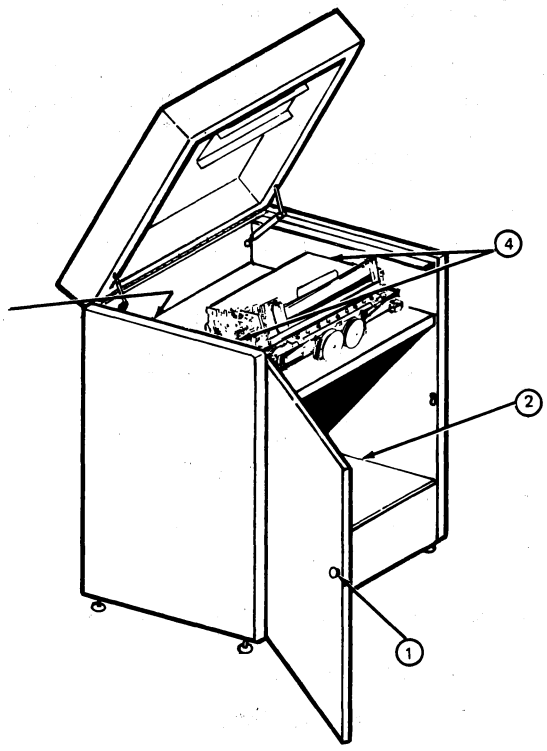


Fig. 14

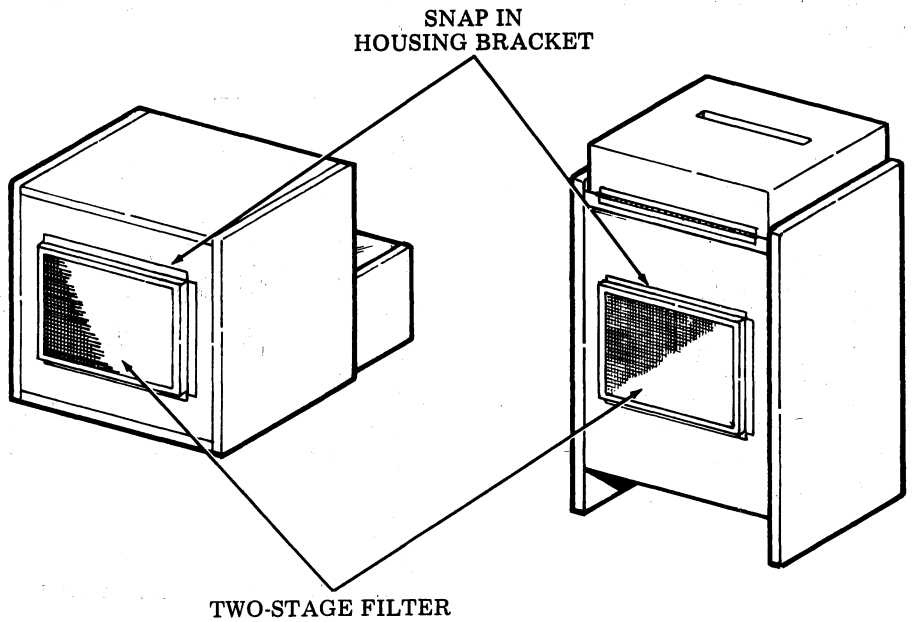


Fig. 15

7. PARTS

7.01 The following spare replacement parts are available from:

Designed Enclosures, Inc.
563 N. Citracado Parkway
Escondido, California 92025

Description	Order Wording	Qty *
Muffin Fan	Model 46A001 Muffin Fan	1
Keyboard Window	Model 38A001 Plexiglas Window	1
Monitor Window	Model 38B002 Plexiglas Window	1
Dynel Filter w/Frame	Model 42B001 Filter	10
Dynel Filter w/o Frame	Model 42B003	5
Charcoal Filter	Model 42B002 Filter	10
Utility Power Strip w/o Cord	Model 51B001-1	1
Utility Power Strip w/Cord	Model 51B001-2	1
Security Lock	Model 31A009 Camlock (Equipped with two keys)	1

*Minimum Ordering Quantities