

SYNCHRONOUS "DATASPEED*" 40/4
ROUTINE MAINTENANCE

CONTENTS	PAGE
1. GENERAL	1
2. TOOLS AND SUPPLIES	2
3. ROUTINE MAINTENANCE	2
4. OPERATIONAL CHECKOUT	4

1. GENERAL

1.01 This section provides the routine maintenance procedures and methods for a DATASPEED 40/4 Station, hereafter referred to as 40/4 type.

1.02 This section is reissued to provide additional coverage of the Operational Checkout. Since this is a general revision, no revision arrows have been used to denote significant changes.

1.03 Abbreviations used in this section are defined in Section 582-200-101.

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

1.04 The following dangers and warning are to be used as safety measures for the apparatus and the craftsperson.

Danger 1: Turn off all power and signal sources before removing or replacing any component.

Danger 2: Wear approved safety glasses when the housing of the monitor is removed, as the display tube is fragile in the neck area and is subject to implosion if broken. Be careful not to strike the glass of the tube with tools or components when working in its vicinity (Fig. 1).

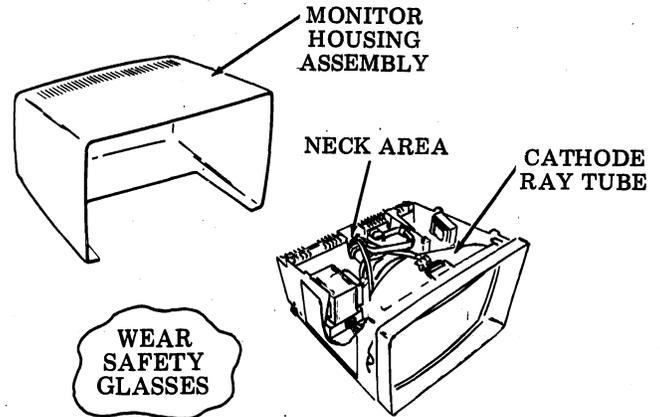


Fig. 1

Warning: To avoid possible internal damage to circuitry, wear a 346392 static discharge strap connected to ground to allow static discharge before handling circuit cards for removal or replacement. Avoid touching circuit lands or components as much as possible (Fig. 2).

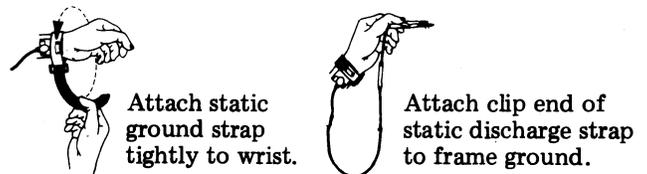


Fig. 2

1.05 Perform the routine maintenance at the customer's convenience. Consider any special maintenance or corrective action requested by the customer or operator.

1.06 This routine is for field use only. Do not attempt repairs without notifying the customer and your supervisor.

*Registered Trademark of AT&TCo.

2. TOOLS AND SUPPLIES

2.01 Tools required for routine maintenance:

- Static discharge strap (346392)
- Safety glasses or goggles (approved)
- Soft bristled brush (1/2 inch collar)
- Vacuum, hand-held (battery or ac type).

2.02 Supplies required for routine maintenance:

- Soft wiping cloths (lint-free)
- Mild detergent (household)
- Container for detergent solution.

Warning: Use of improper solvents or cleaning agents can adversely affect or destroy plastic. Do not clean with solvents or strong detergent solutions or allow these cleaning agents to contact plastic parts.

3. ROUTINE MAINTENANCE

3.01 The routine required is primarily for the mechanical facilities of each device. This routine is to be performed on each device of a station arrangement, after one year or 2000 hours of service by the station arrangement (whichever occurs first). Routine intervals should be shorter in dirty or corrosive environments.

3.02 Obtain a station release from attendant, test board, or customer's communication center (give the approximate length of time the station will be out of service). Turn off all power.

3.03 Cleaning routine

Note: On customer location, avoid cleaning methods that spread dust and debris to surrounding areas.

Warning: Do not use sharp objects, harsh abrasive cleaning agents or solvents which could scratch or damage plastic surfaces.

Cabinets, Pedestals and Opcon

- (a) Clean all ventilating screens; use a soft bristled brush to remove debris, while vacuuming, see Fig. 3.
- (b) Clean exterior surfaces:
 - (1) Wash with mild detergent solution.
 - (2) Rinse with damp cloth.
 - (3) Buff dry with soft cloth.

Monitor

- (a) Clean all ventilating slots (top, bottom and rear).
- (b) Clean exterior surfaces — wash, rinse and buff.
- (c) Interior — brush and vacuum. (See 3.06 for fuse check.)

Note: Dismantling for cleaning shall be kept to a minimum. For monitor disassembly/reassembly procedures, refer to Section 582-213-701.

Fan Assembly — brush and vacuum.

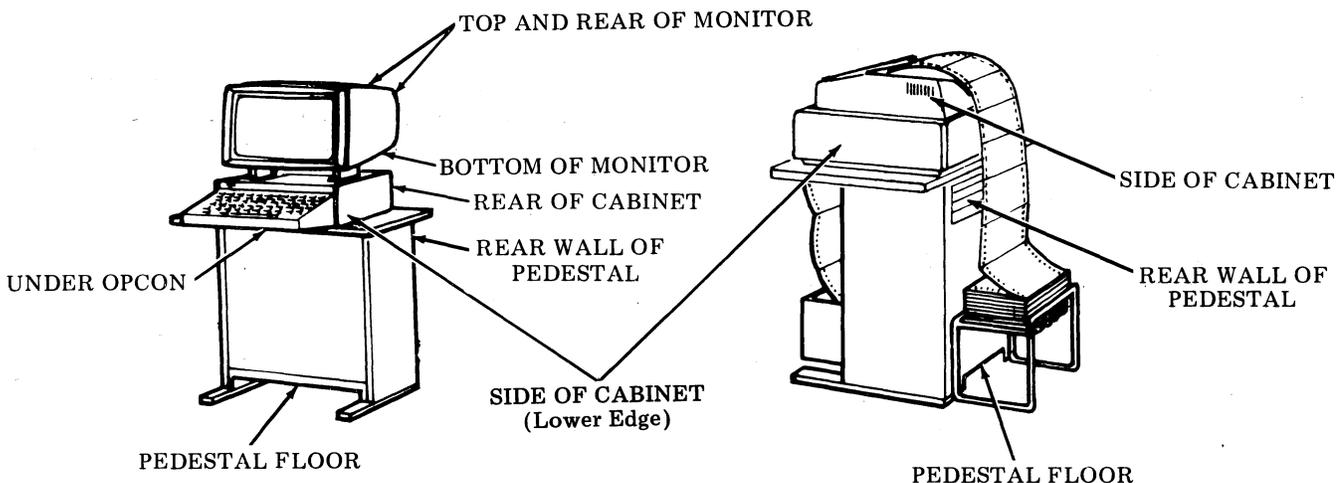


Fig. 3—Ventilating Screen Locations

3.04 Cabinet, pedestals, monitors and opcons do not require routine lubrication.

3.05 Check for and correct any defects in the general appearance of the station:

- All connectors are seated properly and securely.
- No pinched or crimped wires or cables.
- Doors and panels open and close properly.
- Latches open easily and close securely.
- Covers are secure.
- Grounding straps connected and in good condition. (Locations given in Section 582-200-701.)

During servicing or prior to operational checkout, make sure all grounding straps are connected. For ground strap locations, see Section 582-200-701.

3.06 Check fuses, condition and ratings (fuse ratings are critical, no higher rating than specified shall be used). Refer to Fig. 4 for locations:

- Printer = 1 Amp SL-BL MDL-1 (143306)
- Controller = 40C400 type only
 - Early Design — 3 Amp (405181)
 - Late Design — 2.5 Amp (321955)
- Power Supply = 40PSU101 (Used in 40C304 or 40C305 Controller only)
 - 5 Amp SL-BL (129920)
- Monitor (Early Style) = 1.4 Amp (Special fuse must be marked number 341578).
- Monitor (Late Style) = 1.5 Amp SL-BL (341686) glass type.

Printer

3.07 For printer maintenance routine, see Section 582-210-750.

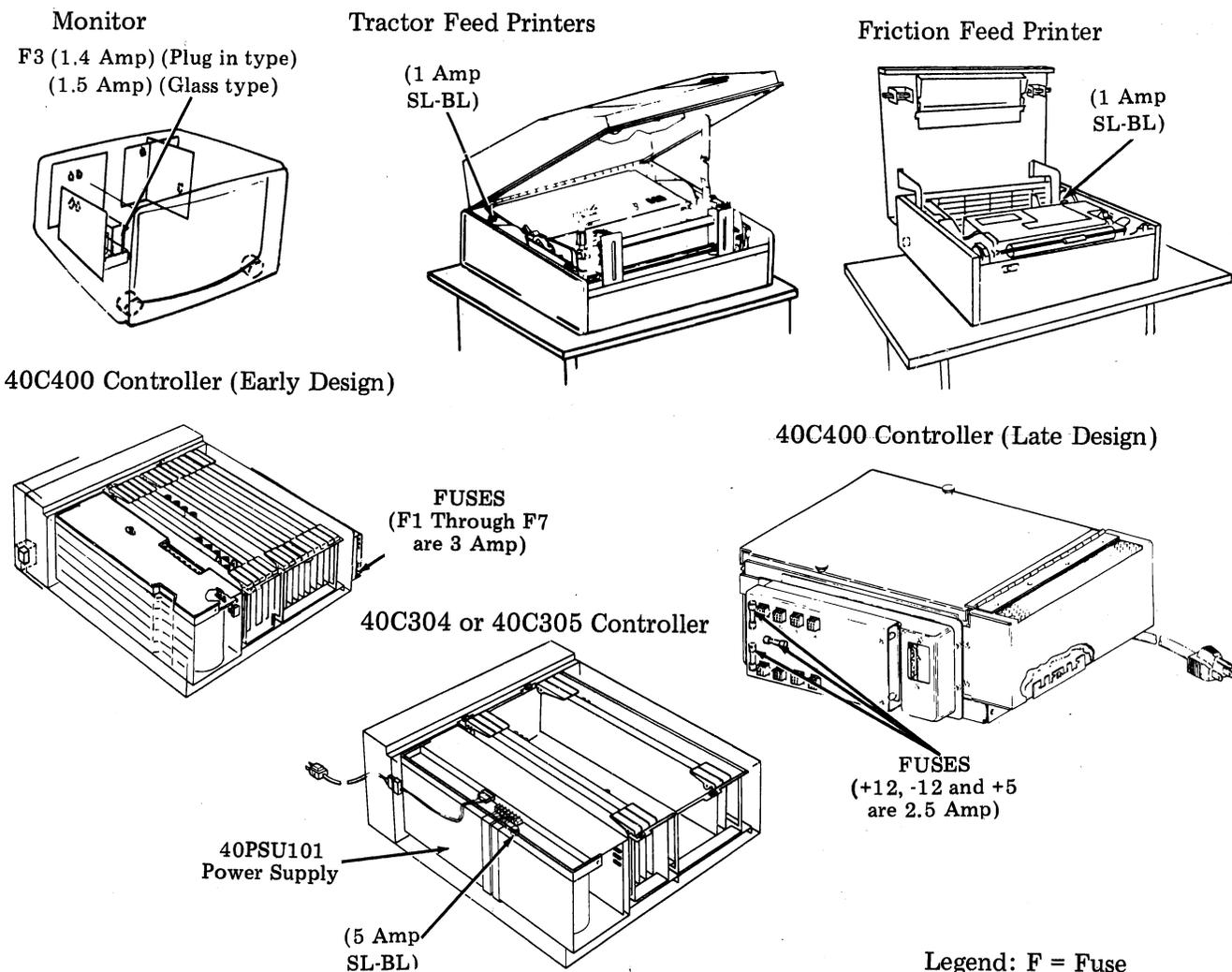


Fig. 4—Fuse Locations

4. OPERATIONAL CHECKOUT

4.01 Check for air movement by all fans in controllers and printer cabinets. (There are no fans in a 40CAB201 friction feed cabinet).

4.02 Perform the KD/Controller Check:

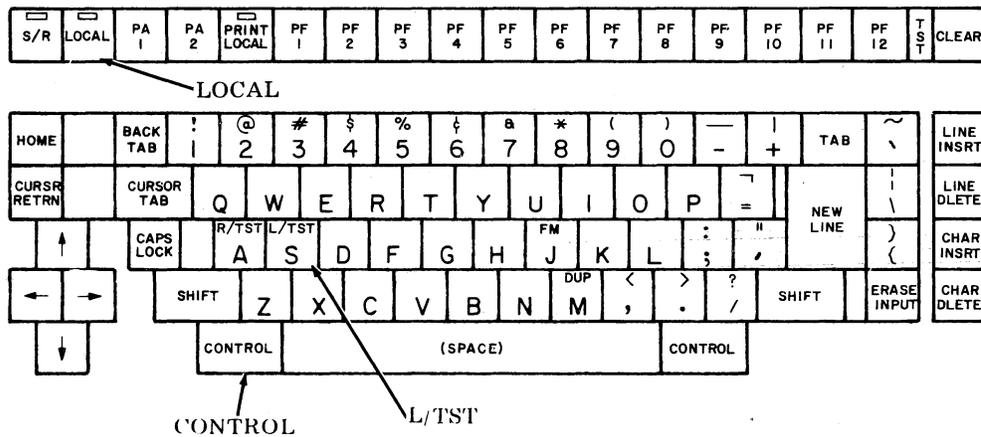
For typewriter style opcon: (See Fig. 5.)

- Depress LOCAL key, if the key is not lit.
- Request a local test by depressing the L/TST key while CONTROL key is held down.

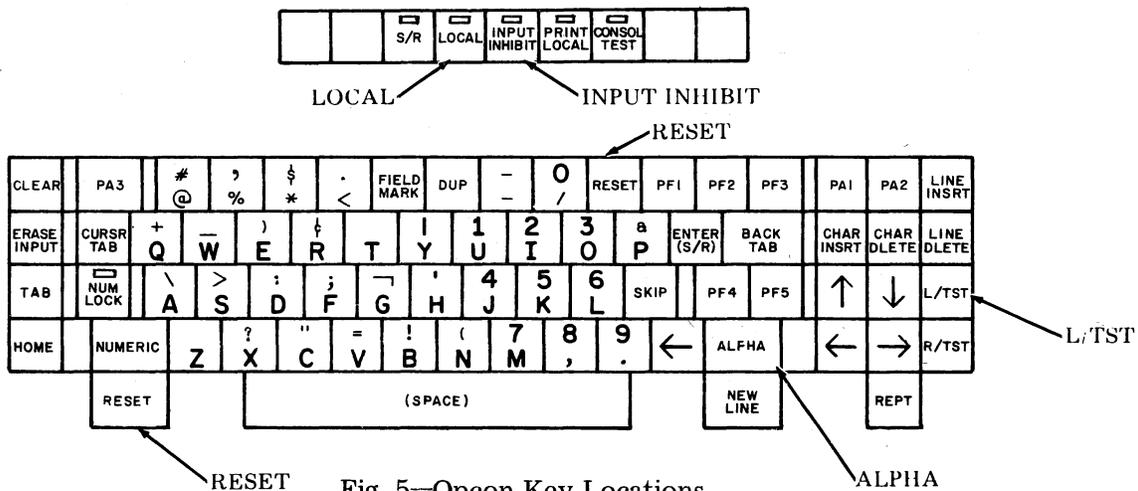
For internal numeric cluster style opcon: (See Fig. 5.)

- Depress RESET key, if the LOCAL key is not lit (INPUT INHIBIT key is lit).
- Request local test by depressing the L/TST key while ALPHA key is held down.

Typewriter Style Opcon (40K104 or 40K203)



Internal Numeric Cluster Style Opcon (40K105)



4.03 Check the monitor display for:

- Brightness – raster barely visible when brightness control is fully turned up.
- Size – display (80 characters by 24 lines) is centered on tube face as gauged by eye. 80 characters are 11-1/4 inch ± 1/4 inch. 24 lines are 5-1/4 inch ± 1/8 inch.
- Distortion – characters are uniform.
- Proper message

Note: For monitor adjustments, see Section 582-213-700.

4.04 Checkouts for printers are given in Section 582-210-750.

4.05 If checkout was successful, routine is complete. If the checkout responses indicate a need for more testing, refer to Section 582-200-501 (Maxi- or Mini-Cluster Stations) or Section 582-200-505 (Single Display Station).

Fig. 5—Opcon Key Locations