

“DATASPEED*”40/3
WITH 9140 STATION CONTROLLER
ROUTINE MAINTENANCE

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1. GENERAL

1.01 This section provides routine maintenance information for DATASPEED 40/3 station arrangements.

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

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

1.04 The following dangers and warnings 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).

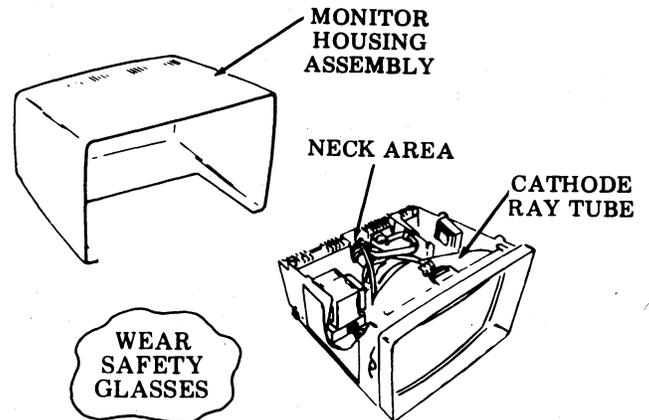


Fig. 1

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).

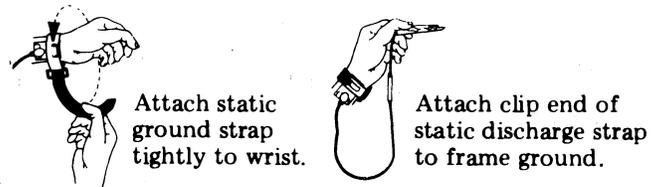


Fig. 2

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.

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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.

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 even 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.

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 sides).

(b) Clean exterior surfaces — wash, rinse and buff.

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

(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.

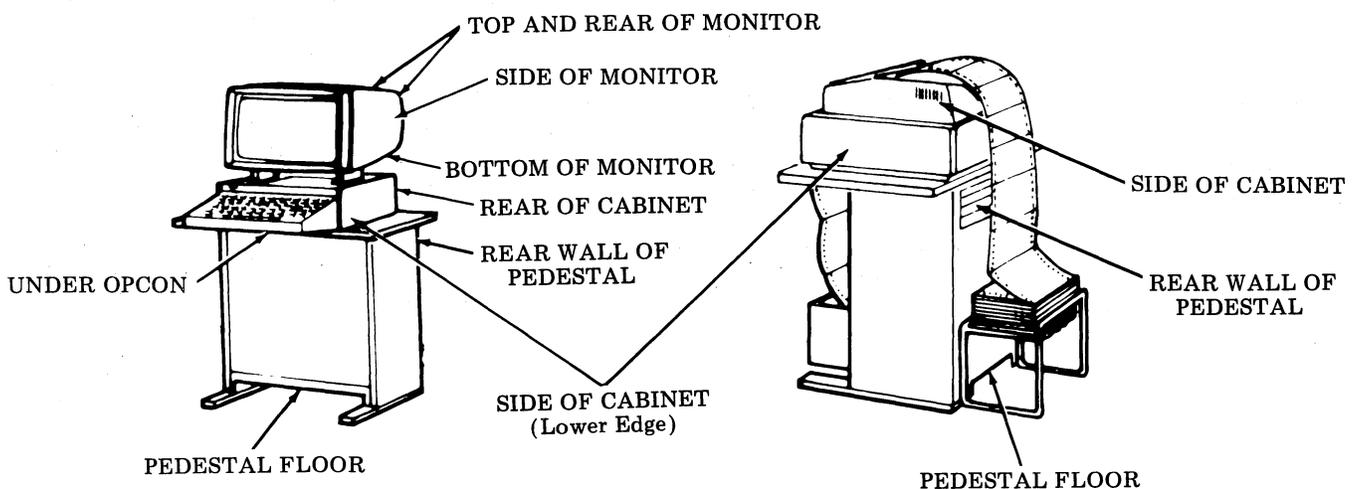
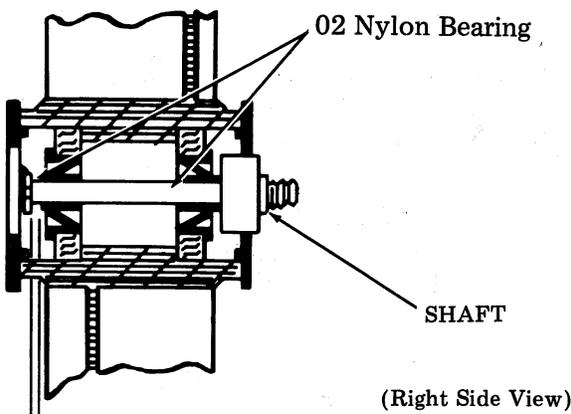


Fig. 3—Ventilating Screen Locations

3.04 Cabinet, pedestals, monitors and OPCONs do not require routine lubrication except for required lubrication of early design belted-type fan assemblies associated with controller logic assemblies. See Fig. 4.

Apply a thin film of grease to the teeth of the 401048 fan belts and 401049 motor belt, using a brush. Manually rotate fan while applying grease. After ventilation assembly has been run briefly, excess grease should be removed from fans.

- O Oil KS-7470
- G Grease KS-7471 (thin film)



Oil (2 drops) to be applied to nylon bearings of the fan blade assemblies only if disassembled.

Note: The 408050 beltless fan assembly does not require routine lubrication.

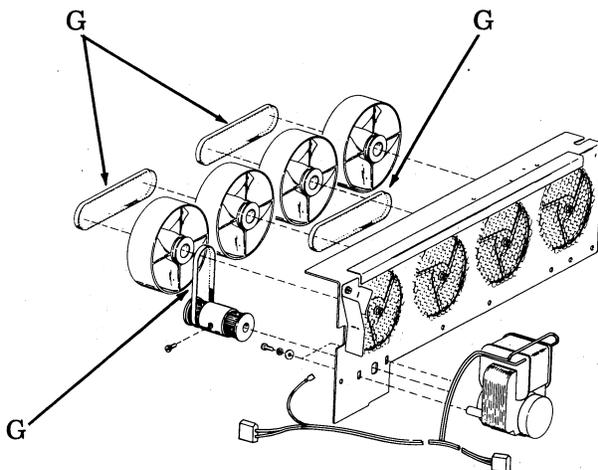


Fig. 4 — Lubrication of 401040 Belted-Type Fan Assembly

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

- All connectors are seated properly and securely.
- Look for pinched or crimped wires or cables.
- Doors and panels open and close properly.
- Latches open easily and close securely.
- Covers are secure.
- Grounding straps.

During servicing or prior to operational checkout, make sure all grounding straps are connected. For ground strap locations, see Fig. 5.

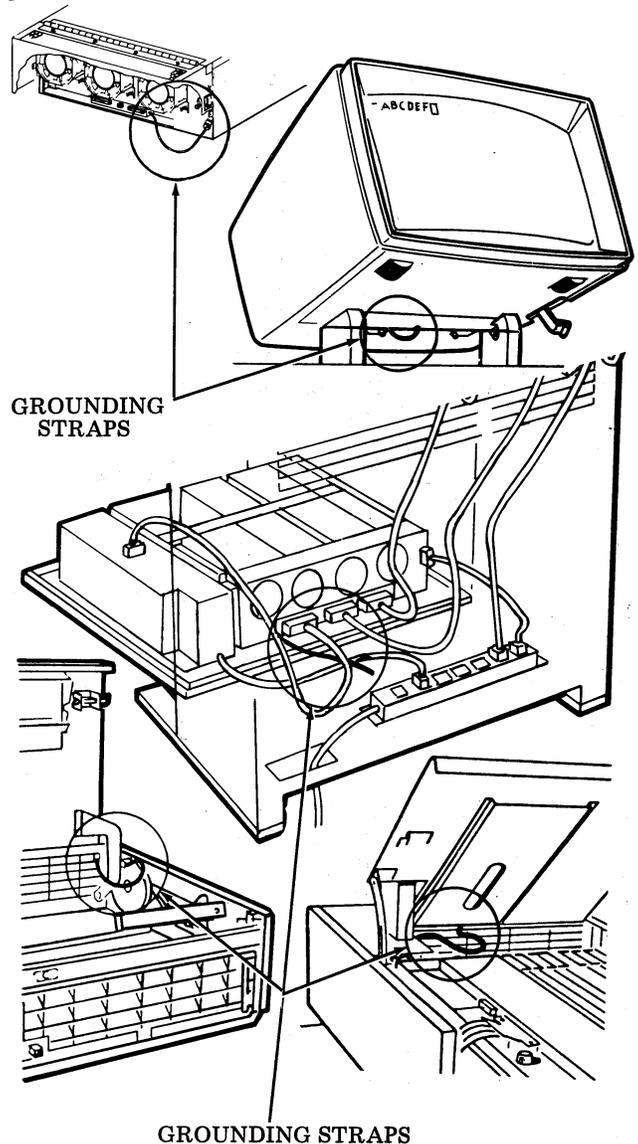


Fig. 5 — Grounding Strap Locations

SECTION 582-200-753

3.06 Check fuses, condition and ratings (fuse ratings are critical, no higher rating than specified shall be used). Refer to Fig. 6 for locations:

- Printer = 1 Amp SL-BL MDL-1 (143306)
- Power Supply = 5 Amp SL-BL (129920)
- Monitor = 1.4 Amp (Special fuse must be marked number 341578).
- 9140 Station Controller = 2 Amp (120166)
- Power Supply (333669) = 3/8 Amp (159269)
= 1/2 Amp SL-BL (117176)
= 2 Amp (120166)

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

4. OPERATIONAL CHECKOUT

4.01 After performing routine maintenance, a brief off-line operational checkout should be performed to assure that a working station is being returned to service. Refer to Section 582-200-503 for checkout procedures. Each component of the station (opcon, display monitor, printer, etc) should be subjected to a brief operational checkout.

4.02 Checkouts for the monitor are covered in Section 582-213-700.

4.03 Checkouts for printers are covered in Section 582-210-750.

4.04 If checkout was successful, routine is complete. If checkout responses indicate a need for more testing, refer to Section 582-200-503.

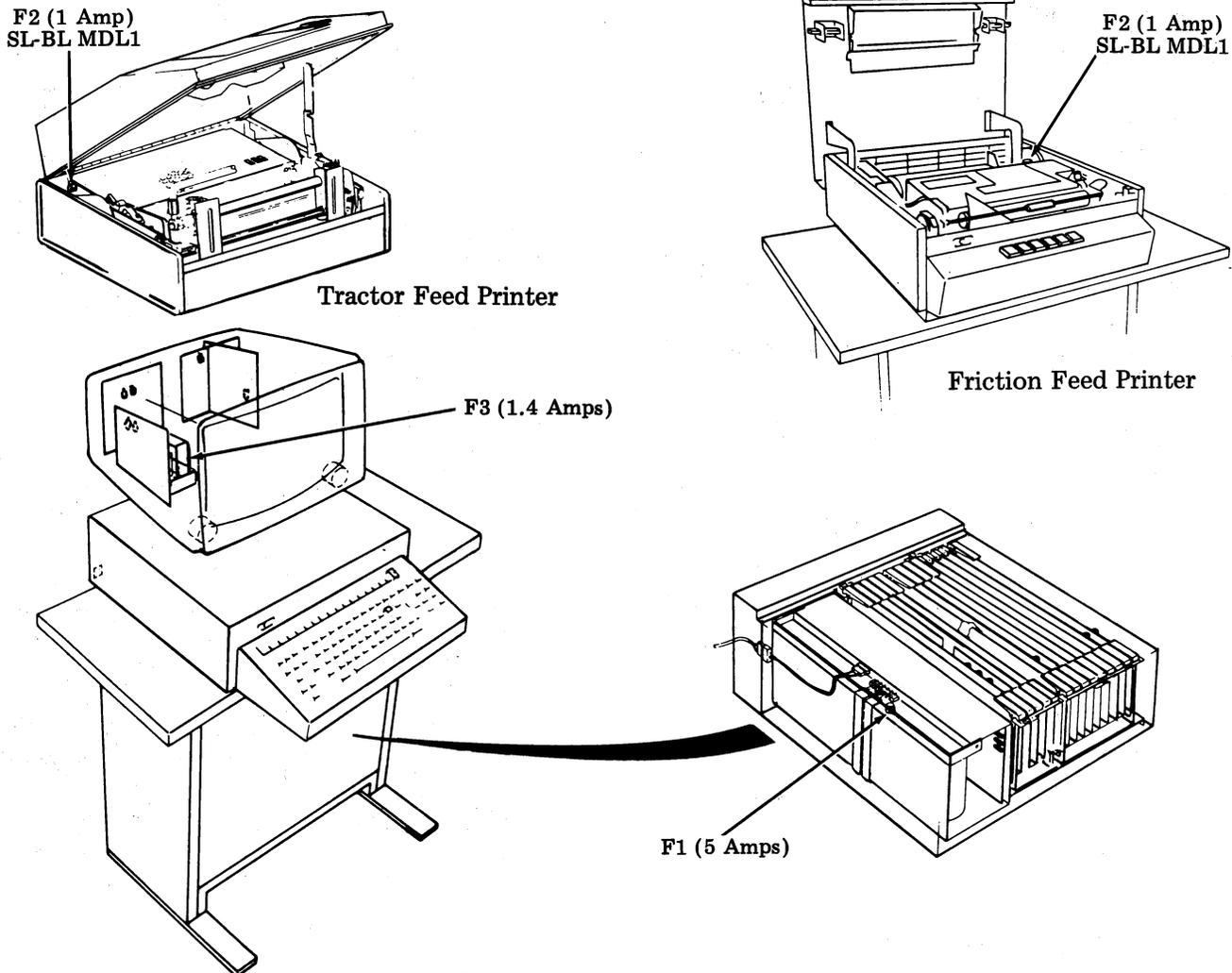
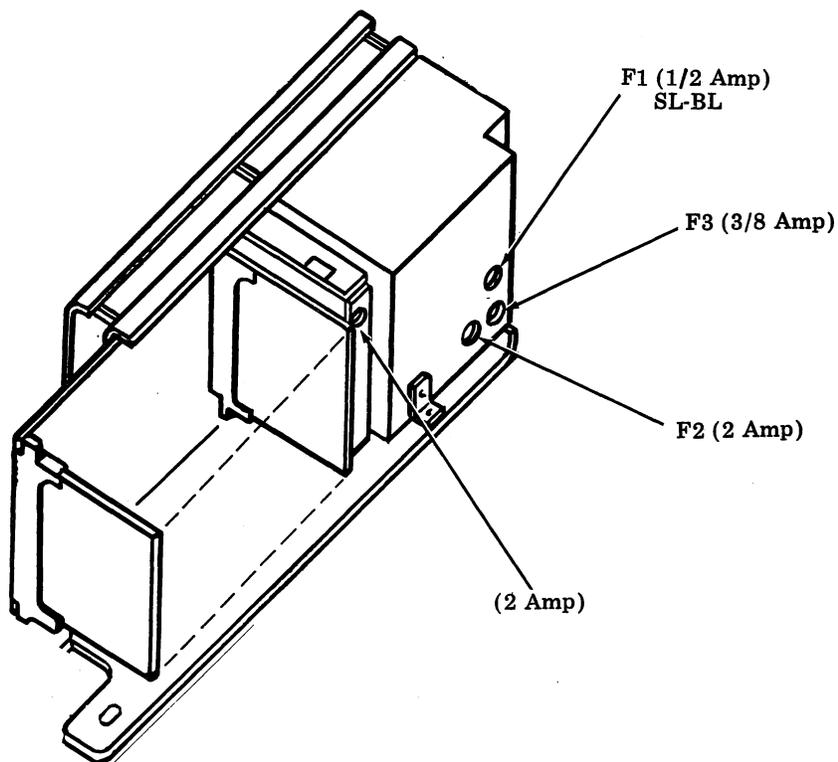


Fig. 6 — Fuse Locations



9140YH STATION CONTROLLER WITH POWER SUPPLY (333669)

Fig. 6 — Fuse Locations (Cont)