

SERVICE LETTER

DATE: JUNE 14, 1974

NUMBER: DK-3017A

NOTE

SERVICE LETTER DK-3017A REPLACES DK-3017 IN ITS ENTIRETY.

REMOVE AND DESTROY SERVICE LETTER DK-3017.

TITLE: POSITIONER ASSEMBLY REMOVAL AND REPLACEMENT PROCEDURES.
ESTIMATED TIME - 5 HOURS.

PARTS: One Positioner Assembly (102888-01)
Twenty Tie Wraps 1/8" x 12" (Or Equivalent)

NOTE

DUE TO THE COMPLEXITY AND TIME FRAME OF THIS PROCEDURE, IT IS RECOMMENDED THAT THE FOLLOWING BE PERFORMED AT THE REGIONAL REPAIR CENTER. THE SETUP PROCEDURES ARE WRITTEN FOR FRONT LOAD (STEPS 7.0 AND TOP LOAD (STEP 8.0)).

1.0 Tools Required

- 1.1 Complete set of Xcelite hex drivers.
- 1.2 1 - Small set of diagonal cutters.
- 1.3 1 - 8" Phillips screwdriver.
- 1.4 1 - 10" Phillips screwdriver.
- 1.5 1 - 10 Standard flat blade screwdriver.
- 1.6 1 - Adapter Bowl setup tool (103619-01) (Top Load Only)
- 1.7 1 - Circumferential Adjustment Tool (103609-01) (Front Load Only)

2.0 Prepare drive for service.

- 2.1 Power OFF and unplug unit.
- 2.2 Remove dust cover.
- 2.3 Place LOGIC and SERVO PCBA upright in the service position.

3.0 Remove READ/WRITE PCBA, READ/WRITE head adjustment plate and Read/Write heads. (Reference D3000 Manual, Page 7-8, Figure 7-4 Item 8)

4.0 Remove LOGIC and SERVO PCBA's. (Reference D3000 Manual, Page 7-8, Figure 7-4, Items 17 and 18)

5.0 Remove swing stud, closest to the positioner magnet, that supports one side of the LOGIC PCBA.

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- 6.0 Remove Phillips screws that secure tie wraps for the POWER/TRANSISTOR cable on rear of positioner.
- 7.0 Front Load Setup Procedure.
 - 7.1 Remove 4 (four) Allen bolts that secure pivot brackets at rear of receiver. (Reference D3000 Manual, page 7-4, Figure 7-2, Item 2).
 - 7.2 Remove 5 screws that secure lower platter cover.
 - 7.3 Remove air baffles (Deflectors) if applicable. (Located on rear of lower platter cover next to the positioner.).
 - 7.4 Remove lower platter cleaning access door. (Located on right side of lower platter cover.)
 - 7.5 Cut enough of the tie wraps that secure the magnetic pickup cable for the lower platter sector ring, so that lower platter cover may be swung over bezel.

CAUTION

WHEN REMOVING THE LOWER PLATTER COVER
UTILIZE UPMOST CAUTION. DO NOT TOUCH
LOWER PLATTER WITH LOWER PLATTER COVER
OR CABLE BUNDLE. DAMAGE TO LOWER PLATTER
COULD RESULT IN HEAD TO DISK CONTACT
(HEAD CRASHES) OR READ/WRITE ERRORS.

- 7.6 Lift lower platter cover off of fixed platter, flip it over, resting it against the bezel.
- 7.7 Observe that the cartridge in place switch is not being damaged or its actuating arm is not being bent.
- 8.0 Top Load Setup Procedures.
 - 8.1 Remove 4 (four) phillips head screws that secure lower platter cover. (Located inside cartridge bowl)

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- 8.2 Remove Lower Platter Cover.

CAUTION

WHEN REMOVING LOWER PLATTER COVER UTILIZE
UPMOST CAUTION. DAMAGE TO LOWER PLATTER
COULD RESULT IN HEAD TO DISK CONTACT
(HEAD CRASHES) OR READ/WRITE ERRORS.

- 8.3. Remove Bezel.
- 8.4 Remove index to data adjustment screw and locking nuts.
- 8.5 Remove upper and lower magnetic transducers.
- 8.6 Remove upper and lower magnetic transducer booms. Again utilize CAUTION TO AVOID DAMAGE TO LOWER PLATTER.
- 8.7 Remove 2 cartridge lock solenoid assemblies. (Reference D3000 Manual, Page 7-6, Figure 7-3, Item 1).
- 8.8 Remove write protect switch assembly.
- 8.9 Remove 6 (six) screws that secure lower platter ring and lower platter.
- 8.10 Remove lower platter and ring.
- 8.11 Remove 2 (two) screws that secure cable bundle to side of cartridge bowl.
- 8.12 Remove three cartridge bowl screws from underside of drive.
- 8.13 Remove cartridge bowl.

NOTE

THE FOLLOWING IS APPLICABLE
FOR BOTH FRONT AND TOP LOAD-
ING D3000's.

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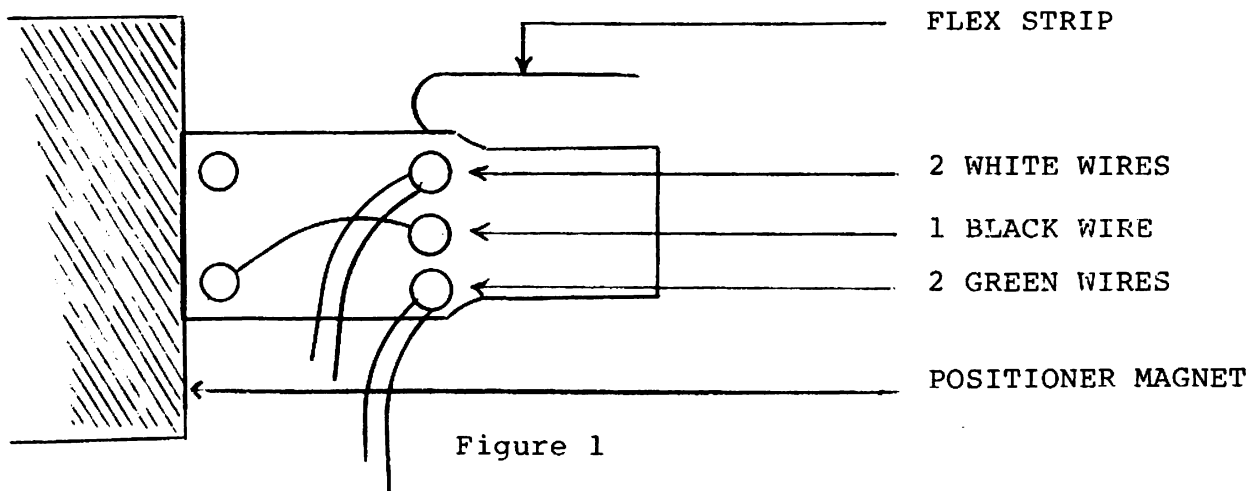
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- 9.0 Cut all tie wraps that secure cable bundle for Servo PCBA plugs, J212 and J213.
- 10.0 Cut tie wrap closest to the motor that secures power switch and lamp cable assembly for J501.
- 11.0 Unplug J501
- 12.0 Remove white cover for motor control board. (Reference D3000 Manual Page 7-8. Figure 7-4, Item 13).
- 13.0 Remove J405 on motor control board along with any remaining tie wraps that may inhibit removing the power supply.
- 14.0 Remove 3(three) screws that secure belt guard plate. (Reference D3000 manual,page 7-10, Figure 7-5, Item 10)
- 15.0 Remove belt guard plate.

NOTE

"DO NOT WIPE OFF"STATIC DISCHARGE LUBRICATION FOR SPINDLE.

- 16.0 Remove (6) six screws from under side of unit that hold power supply in.
- 17.0 Remove power supply
- 18.0 Remove 2 white and 2 green positioner current wires from flex strip plate (See Figure 1) black wire need not be removed.and hex head screw from positioner base plate. (See Figure 2)



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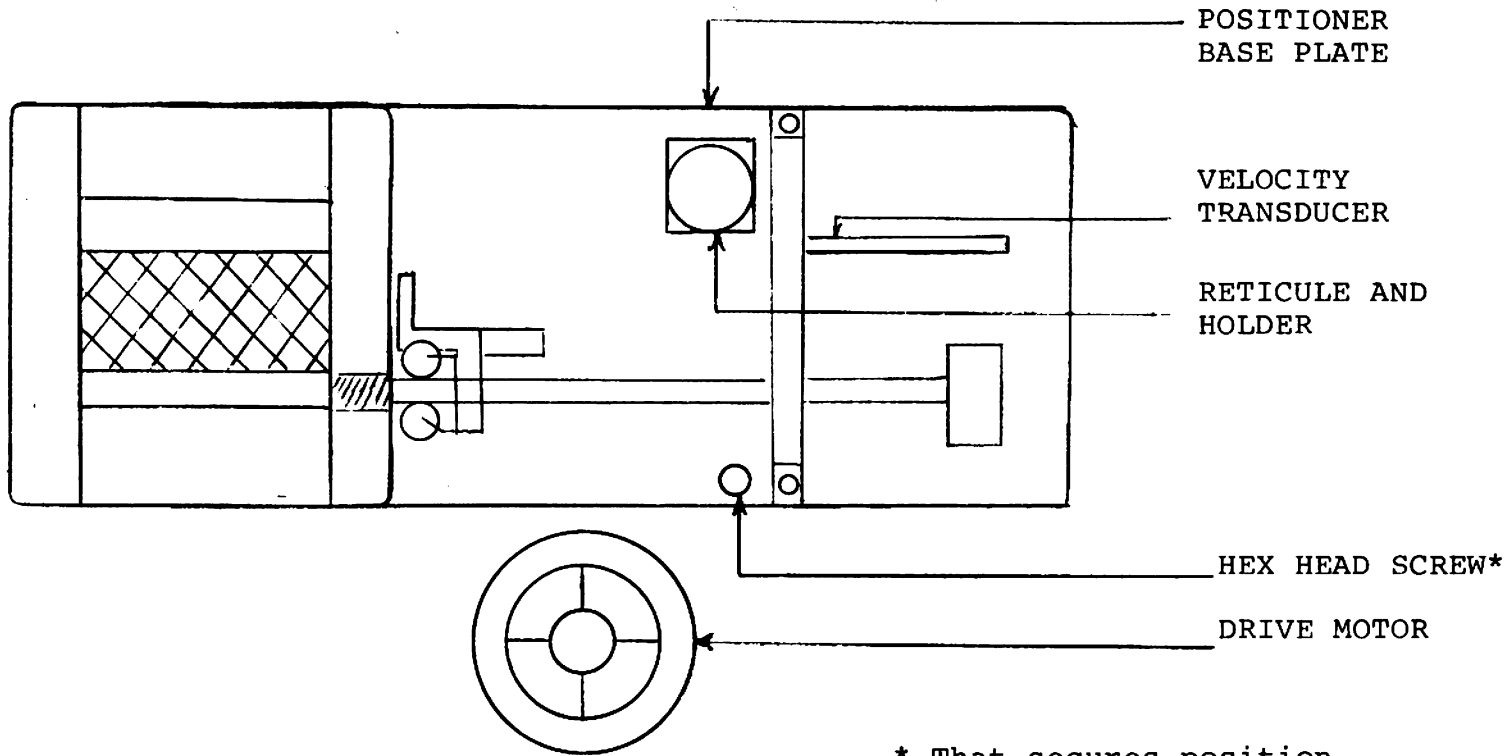
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* That secures position from top side.

FIGURE 2

- 19.0 Remove 5 (Five) screws that secure positioner from underneath the drive.
- 20.0 Remove positioner by lifting off of guide pins.
- 21.0 New positioner can now be installed with little or no difficulty.
- 22.0 Reverse appropriate steps for reinstallation of the following:
 - 22.1 Positioner
 - 22.2 Power Supply

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NOTE

POWER SUPPLY RECTIFIERS MAY HAVE BECOME LOOSE WHILE POWER SUPPLY IS OUT OF UNIT. INSURE THAT RECTIFIER SCREWS ARE TIGHT AND RECTIFIER ITSELF IS TURNED SO THAT THE TERMINAL CLOSEST TO THE BASE CASTING IS NOT SHORTING TO THE CASTING.

- 22.3 Logic and Servo PCBA's
- 22.4 Cartridge Bowl (If Top Load) and related assemblies
(Reference D3000 Manual Section 6-16)
- 22.5 Lower Platters

CAUTION

LOWER PLATTER MUST BE KEPT FREE OF DIRT, FINGER PRINTS, AND OTHER FOREIGN SUBSTANCES. LOWER PLATTER MUST BE CLEANED THOROUGHLY.

- 22.6 Clean disk drive as per D3000 Manual, Section 6-4 through 6-4-2.
- 22.7 Reinstall and adjust magnetic transducers per D3000 Manual, Section 6-18.
- 22.8 Reinstall lower platter cover only after platter is clean and transducers have been adjusted. (TOP LOAD)
- 22.9 Reinstall receiver if front loader.
- 23.0 Perform all Servo Checks with heads removed from unit.

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- 24.0 Insure Seeks can be done and all servo alignments are correct.
- 25.0 Install heads and perform C.E. and circumferential alignment procedures outlined in D3000 Manual, Section 6-13.
- 26.0 Insure that all the wraps are secure and that no wires are caught under bowl or receiver.
- 27.0 Check unit for proper operation after dust cover is put on.

NOTE

STEPS 24 THROUGH 28 ARE IN NO PARTICULAR ORDER AS THEY MAY VARY DEPENDING ON WHETHER A TOP LOAD OR FRONT LOAD POSITIONER IS BEING REPLACED.