

SERVICE LETTER

DATE: 10-1-74

NUMBER: DK3014A

NOTE

SERVICE LETTER DK3014A REPLACES SERVICE LETTER DK3014 IN ITS ENTIRETY. REMOVE AND DESTROY SERVICE LETTER DK3014.

TITLE: POSITIONER TRANSDUCER (RETICLE) REMOVAL AND REPLACEMENT PROCEDURE (Estimated Time of Repair 2 Hrs.)

PARTS: One RETICLE (103679-01)

NOTE

DO NOT REMOVE THE READ/WRITE HEADS

1.0 Tools Required

- 1.1 Complete set of Xcelite hex drivers.
- 1.2 1 - 10" Phillips Screwdriver.
- 1.3 1 - 10" Standard Flat Blade Screwdriver.
- 1.4 1 - Small pair of Diagonal Cutters.
- 1.5 1 - Reticle Adj Tool (P/N 103659-01).
- 1.6 1 - Molex Extractor Tool.
- 1.7 1 - Strip of paper or Mylar .005, 0.6" Wide and 5" long.

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 in the service position.
- 2.4 Remove READ/WRITE Board.
- 2.5 Lay head cables against positioner magnet.

NOTE

EXTREME CARE MUST BE TAKEN TO
AVOID DAMAGE TO THE SCALE!!!!!!

3.0 Remove Scale Shield

- 4.0 Remove two hex head screws and washers securing the reticle in the holder.
- 5.0 Cut the tie wraps that secure the positioner transducer (reticle) cable noting where tie wraps were placed.
- 6.0 Remove old reticle, cable and J203.

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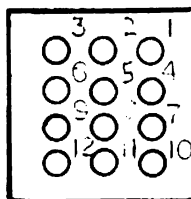
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7.0 From Plug J203 remove the following:
(See Figure 1, Below)

- 7.1 White wire from J203 Pin 10
- 7.2 Gray Wire from J203 Pin 12
- 7.3 Black wire from J203 Pin 4
- 7.4 Red wire from J203 Pin 9
- 7.5 Ground Shield from J203 Pin 5

<u>Pin No./Color Wire</u>	<u>Pin No./Color Wire</u>
1 = GREEN	7 = BROWN
2 = BLUE	8 = LARGE BLACK (INSULATED GROUND)
3 = ORANGE	9 = RED
4 = BLACK	10 = WHITE
5 = GROUND SHIELD	11 = NONE
6 = RED	12 = GRAY

J 2 0 3



PIN VIEW

F I G U R E 1

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- 8.0 Reticle assembly may now be completely removed.
- 9.0 Reverse Step 7.0 for installing wires in J203 of new glass reticle (103679-01).
- 10.0 Place .005 paper between reticle holder and scale.
- 11.0 Reinstall reticle in holder.
- 12.0 Replace screws and washers and slowly tighten screws that hold reticle while moving paper. This insures that the reticle to scale distances is not too tight.
 - 12.1 If paper becomes tight and will not move, readjustment of the scale is required. Reference Service Letter DK3015, Step 14.0.
- 13.0 With proper scale to reticle distance:
 - 13.1 Reinstall READ/WRITE board and connect head cables.
 - 13.2 Remove J205 and J206 from servo PCBA, and remove paper strip.
 - 13.3 Apply power and turn power switch "on".
 - 13.4 Install scratch pack when "SAFE" occurs.
 - 13.5 Push RUN/STOP: after approx. 33 seconds manually load heads.

CAUTION

CARE MUST BE TAKEN AS POSITIONER IS MOVED. SHOULD POSITIONER BECOME HARD TO MOVE, STOP! SCALE BREAKAGE COULD RESULT IF POSITIONER IS FORCED.

- 13.6 Slowly move positioner to CYL 202 with .005 paper between scale and reticle. No excessive tightness should be felt. If tightness is encountered, return to Step 12.1.
- 14.0 Check and adjust if necessary the Servo and positioner transducer signals per Section 6, pages 20-60 of the D3000 Manual.
- 15.0 To properly adjust the amplitude, or the X+10 and X+90 signals, use X+0 and X+90 signal polarity and quadrature check. (D3000 Manual, Page 6-29, Procedure 6.8.3) (Insure Channel B on Scope is not Inverted)

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- 16.0 Adjust reticle to reflect the maximum amplitude of the added signals. Readjustment of the reticle may be necessary later to achieve perfect symmetry on over and undershoots during one track seeks.
- 17.0 Reinstall scale shield and cable ties.
- 18.0 Check unit for proper operation after dust cover is put on.