12-12. Record Bias Adjustment

- (8) After the adjustment, check the tape pass (7) Turn the zenith adjusting screw by the same obtained in preceding procedure (6). angle of turns of the height adjusting screw
- adjustment again.

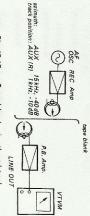


Fig. 12-15 Record head azimuth and track position adjustment setup

12-11. Record Head Phase Check

As shown in Fig. 12-16.

Switch Setting:

MONITOR switch TAPE

VR Setting:

AUX VOLUME indicated on page 25

Procedures:

- (2) Thread a blank tape. (1) Make the p.b. head phase check.
- (3) Deliver a 1.5 kHz signal of -10 dB (0.24V) into the AUX INput jack and record the signal on the blank tape.
- (4) Be sure to obtain the Lissajous figure as shown in Fig. 12-17.

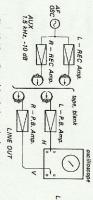


Fig. 12-16 Record head phase check setup



Fig. 12-17 Lissajous figures

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Connection:

As shown in Fig. 12-19,

Adjusting Parts:

C128 (C228) .. .See Fig. 12-2

Switch Setting:

TAPE SPEED switch 19 cm/s (71/6 ips) MONITOR switch ... TAPE

VR Setting:

AUX and MIC VOLUME

.. indicated on page 25

Procedures:

- (1) Be sure that the trap coil adjustment has been made.
- (2) Thread a blank tape.
- (3) Deliver a 1 kHz signal of -10 dB (0.245V) into the AUX INput jack.
- (4) While recording the signal on the blank tape clockwise slowly until the VTVM reads the maximum value. turn the trimmer capacitor C128 (C228)
- (5) Continue to turn the trimmer capacitor until maximum reading. the VTVM reads a value 0.5 dB below the
- (6) Disconnect the VTVM and connect it across
- (7) Be sure that the VTVM reading is approximately 14V. the record head.
- (8) Be sure that the VTVM reading decreases by degrees, as the TAPE SPEED switch is changed to 9.5 cm/s and then 4.8 cm/s.(9) After the adjustment, apply lock paint to
- the capacitors.

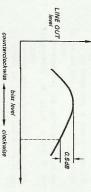


Fig. 12-18 Record bias characteristics

LINE OUT

Fig. 12-19 Record bias adjustment setup

12-13. Record Level Adjustment

Connection:

As shown in Fig. 12-20.

Adjusting Parts.

Switch Setting: R120 (R220) See Fig. 12-2

TAPE SPEED switch NOISE SUPPRESS switch TAPE SELECT switch . .. 19 cm/s (7½ ips) OFF NORMAL

MONITOR switch ..

. TAPE

VR Setting:

AUX VOLUME indicated on page 25

Procedures:

- (1) Thread a blank tape.
- (2) Deliver a 1 kHz signal of -10 dB (0.24V) into the AUX INput jack and record the signal on the blank tape.
- (3) Adjust R120 (R220) to obtain 0 dB on the VTVM.
 (4) Be sure that the VTVM reading is 0 dB (0.775V) when changing the MONITOR level meter just stays at the boundary between the red portion and the black portion when changing the MONITOR switch to SOURCE and the pointer of the
- (5) When changing the TAPE SELECT switch to SLH with the MONITOR switch set in SOURCE, be sure that the reading on the VTVM decreases approximately 1.5 dB.

switch to TAPE.

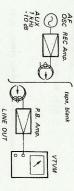


Fig. 12-20 Record level adjustment setup

12-14. Record Equalizer Adjustment

Connection:

As shown in Fig. 12-21.

Adjusting Parts

Switch Setting: L101 (L201) .. See Fig. 12-2

MONITOR switch
TAPE SPEED switch 19 cm/s (71/2 ips)

VR Setting:

AUX VOLUME indicated on page 25

Procedures:

- (1) Be sure that the p.b. equalizer adjustment the trap coil adjustment and the record bias adjustment have been made.
- (3) Deliver a 1 kHz signal of -40 dB (7.75 mV) into the AUX INput jack and memorize (2) Thread a blank tape. the reading on the VTVM, while recording the signal on the blank tape.
- (5) Adjust L101 (L201) to obtain the same (4) Change the signal from 1 kHz to 20 kHz. on the VTVM. reading obtained in preceding procedure (3)
- (6) When changing the signal continuously from 20 kHz to 10 kHz be sure that the deviation on the VTVM is within ±3 dB. make the tape pass and the record head If the deviation is more than ±3 dB in level,
- OSC REC Amp. tape, blank LINE OUT

Fig. 12-21 Record equalizer adjustment setup