

Fig. 12-6 Tentative record and p.b. heads adjustment

12.3. Tape Curl Adjustment

Procedures:

- (1) Set the machine at 4.8 cm/s (1 7/8 ips) tape speed.
- (2) Be sure that the tape comes in contact with the two tape guides exactly as shown in Fig. 12-7.
- If the tape is curled at the left tape guide, adjust by bending the tension regulator arm pin with fingers.
- If the tape is curled at the right tape guide, loosen the two capstan bearing holding screws and adjust by adding or removing the mylar spacer.

Note: After adding or removing the mylar spacer, perform the p.b. head zenith adjustment.

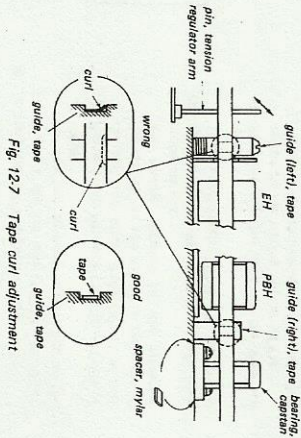


Fig. 12-7 Tape curl adjustment

12.4. P.B. Head Azimuth and Angle Adjustments

Connection:

As shown in Fig. 12-8.

Adjusting Parts:

p.b. head azimuth adjusting screw (See Fig. 12-1)
p.b. head angle adjusting screws (See Fig. 12-1)

Switch Setting:

TAPE SPEED switch 19 cm/s (7 1/2 ips)
MONITOR switch TAPE

Procedures:

- (1) Be sure that the p.b. head is secured sufficiently to the head deck with the holding screw shown in Fig. 12-1, and the tape pass adjustment has been made.
- (2) Playback the 1st tone (10KHz) of SONY alignment tape, J-19-F1, or J-19-K1.
- (3) Adjust the p.b. head azimuth adjusting screw with a non-magnetic screw driver to obtain the maximum reading on VTVM in both L-CH and R-CH.
- (4) If the maximum value of RCH is not the same as that of L-CH, adjust the screw to obtain the mean value of both L-CH and R-CH maximum readings.
- (5) Apply the back-tension by holding lightly the supply reel table, reproducing the alignment tape, and then adjust the angle of the head by loosening the two angle adjusting screws so that the indication on both L-CH and R-CH falls.

Note: Unless the p.b. head is installed at correct angle, the indications on the VTVM will go up.

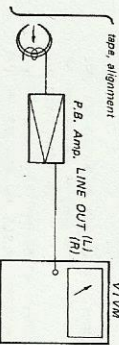


Fig. 12-8 P.B. head azimuth and angle adjustment setup

12.5. P.B. Head Phase Check

Connection:

As shown in Fig. 12-9.

Adjusting Parts:

p.b. head azimuth adjusting screw (See Fig. 12-1)

Switch Setting:

MONITOR switch TAPE

Procedures:

- (1) Playback the 2nd tone (400 Hz) of SONY alignment tape J-19-F1 or J-19-K1.
- (2) Adjust the p.b. head azimuth adjusting screw to obtain the Lissajous figure with no phase difference as shown in Fig. 12-10 on the oscilloscope.
- (3) Playback the 1st tone (10 KHz) of SONY alignment tape J-19-F1, or J-19-K1.
- (4) Adjust the p.b. head azimuth adjusting screw exactly so that the phase difference between L-CH and R-CH is less than 90°.

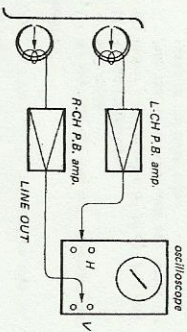


Fig. 12-9 P.B. head phase check setup

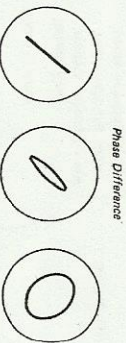


Fig. 12-10 Lissajous figures

12.6. P.B. Output Level Adjustment and Level Meter Calibration

Connection:

As shown in Fig. 12-11.

Adjusting Parts:

R171 (R271) - P.B. output level adjustment
R172 (R272) - Level meter calibration

See Fig. 12-2.

See Fig. 12-2.

See Fig. 12-2.

See Fig. 12-2.