

12-8. P.B. S/N Ratio Check

Connection:
As shown in Fig. 12-13.

Switch Setting:
MONITOR switch TAPE

Procedures:

- (1) Playback the 2nd tone (400 Hz) of the SONY alignment tape J-19-F1 or J-19-K1 and be sure that the VTVM reading is 0 dB (0.775V). If not, make the p.b. output level adjustment again.
- (2) Set the machine in FWD mode with no tape. By pushing the shut-off lever with finger.
- (3) Be sure that the VTVM reading is less than -48 dB (3mV).
- (4) S/N ratio will change by reversing the sense of motor, so that it is necessary to select the connection of the joint terminals connected to the motor leads to obtain better S/N ratio.

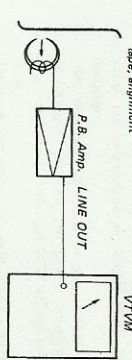


Fig. 12-13 P.B. S/N ratio check setup

12-9. Trap Coil Adjustment

Connection:
As shown in Fig. 12-14.

Adjusting Parts:
L102 (L202) See Fig. 12-2

Procedures:

- (1) Set the MIC VOLUME to the minimum position.
- (2) Place the machine in record mode.
- (3) Connect the VTVM to the check point shown in Fig. 12-2.
- (4) Adjust L102 (L202) to obtain the minimum reading on the VTVM.

Note: If the VTVM reading is not less than -30 dB (24.5 mV), try to move the position of 81C jack leads and NOISE SUPPRESS switch leads.

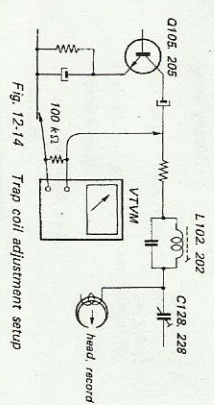


Fig. 12-14 Trap coil adjustment setup

12-10. Record Head Azimuth and Track Position Adjustments

Connection:
As shown in Fig. 12-15.

Adjusting Parts:
Record Head azimuth adjusting screw
height adjusting screw
zenith adjusting screw

Switch Setting:
MONITOR switch TAPE

VFR Setting:
AUX 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 15 kHz signal of -30 dB (24.5 mV) into the AUX input jack and record the signal on the blank tape.
- (4) Adjust the record head azimuth adjusting screw so that the VTVM reading is the maximum for both L-CH and R-CH. In case the maximum reading of R-CH is not the same as one of L-CH, take the mean value between L-CH and R-CH. (The mean value should not be fallen more than 1 dB from the maximum value.)
- (5) Deliver a 1 kHz signal of -10 dB (0.24V) into the R-CH AUX input jack and record the signal on the blank tape.
- (6) Adjust the height adjusting screw to obtain the maximum reading on the VTVM and memorize the angle of the screw.

Procedures:

- (1) Playback the 2nd tone (400 Hz, -0 dB) of SONY alignment tape J-19-F1 or J-19-K1.
- (2) Adjust R171(R271) to obtain 0dB(0.775V) on the VTVM.
- (3) Adjust R172 (R272) so that the pointer of the level meter just stays at the boundary between the red portion and the black portion.
- (4) Change the TAPE SELECT switch to SLH.
- (5) Be sure that the VTVM reading is -2 ~ -3 dB (0.61 ~ 0.55V).

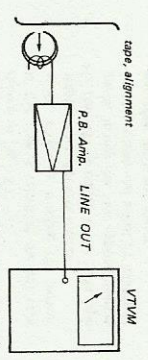


Fig. 12-11 P.B. output level adjustment and level meter calibration setup

12-7. P.B. Equalizer Adjustment

Connection:
As shown in Fig. 12-12.

Adjusting Parts:
R145 (R245) - 19 cm/s tape speed See Fig. 12-2
R146 (R246) - 9.5 cm/s tape speed See Fig. 12-2

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

Procedures:

CAUTION
Never fail to make the 19cm/s equalizer adjustment first.

- A) In using the SONY alignment tape J-19-K1
 - (1) Playback the 1st tone (10 KHz, -10dB) of the tape and memorize the reading on the VTVM.
 - (2) Playback the 2nd tone (400 Hz, 0 dB) of the tape and adjust R145 (R245) so that the reading on the VTVM is 10 dB higher than the reading obtained in the preceding procedure (1).

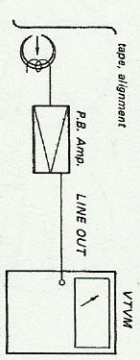


Fig. 12-12 P.B. equalizer adjustment setup

After the adjustment, perform the p.b. output level adjustment and the level meter calibration.

In preceding procedure (4).

SPEED	4th tone 10kHz	5th tone 7kHz	6th tone 80Hz	7th tone 40Hz
19 cm/s (7 1/2 ips)	0 ± 2 dB	0 ± 2 dB	2 ± 2 dB (L-CH)	4 ± 2 dB (R-CH)
			2.5 ± 2 dB (R-CH)	4.5 ± 2 dB (R-CH)

SONY alignment tape "J-19-F1"