As shown in Fig. 12-22.

Adjusting Parts:

L103 (L203). See Fig. 12-2

Switch Settings:

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

AUX VOLUME indicated on page 25

- (1) Thread a blank tape.
- (2) Deliver a 20 kHz signal of -30 dB (24.5 mV) place the machine in stereo-record mode. into the L-CH (R-CH) AUX INput jack and
- Memorize the VTVM reading.
 Set the L-CH (R-CH) in record mode.
 Adjust L203 (L103) with a non-magnetic screw driver, taking care not to break the core so that the VTVM reading is the same as the reading obtained in preceding pro-

OSC REC Amp. cedure (3). tape, blank

Fig. 12-22 Dummy coil adjustment setup

12-16. Erase Ratio Measurement

Connection:

Switch Setting:

MONITOR switch TAPE

VR Setting:

AUX VOLUME ...

As shown in Fig. 12-23. indicated on page 25

Procedures:

- (1) Thread a blank tape.(2) Deliver a 1 kHz signal of +10 dB (2.5V) into the AUX INput jack and record the
- signal on the blank tape.

 (3) Rewind the tape and erase a part of the recorded tape (record mode with no signal
- (4) Memorize the VTVM reading on the recorded part and the erased part of the
- (5) Be sure that the ratio of the recorded part 65 dB. to the erased part in level is more than
- the In resistor as shown in Fig. 12-24 and the VTVM across two 1n resistors in series to the erase head that the erasing current is $80 \sim 120\,\mathrm{mA}$. To measure the erasing current, connect the If not, check the tape pass adjustment and

120 mV. Be sure that the VTVM reading is 80~

Note: Take impedance-matching correctly for the band-pass filter.

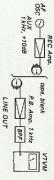


Fig. 12-23 Erase ratio measurement setup

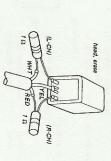


Fig. 12-24 Erasing current check setup

12-17. Overall Frequency Response Measurement

Connection:

As shown in Fig. 12-25.

Switch Setting:

MONITOR switch

TAPE

VR Setting:

AUX VOLUME indicated on page 25

Procedures:

- (1) Be sure that the trap coil adjustment has been made.
- (3) Deliver a 1 kHz signal of -40 dB (7.75 mV) into the AUX INput jack and record the (2) Thread a blank tape. VTVM reading. signal on the blank tape and memorize the
- (4) Deliver 50 Hz, 100 Hz, 5 kHz, 7 kHz, 12.5 kHz and 18 kHz signals in turn and record them on the blank tape and memorize the VTVM readings respectively.
- (5) Be sure that each deviation in level against If not, perform the record equalizer and the record bias adjustments. the table below. 1 kHz signal is within the values shown in

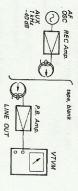


Fig. 12-25 Overall frequency response measurement setup

Deviation against the 1 kHz signal

frequency	tape 50 speed	19 cm/s (71/2 ips) ±	9.5 cm/s + (33/4 ips) - 1	4.8 cm/s + 3 dB + 3 dB + 3 dB (17% ips) - 10 dB + 3 dB + 7 dB
SO Hz		± 3dB ± 3dB ± 3dB ± 3dB	+ 3dB 4	3 dB
10		I+	1+	1+
	zH 0	3 dB	3 dB	3 dB
48	u	1+	1+	1 +
100 Hz 5 kHz		3 dB	± 3dB ± 3dB ± 3dB + 3dB	3 dB
7		1+	1+	
	kHz	3 dB	3 dB	
7 kHz 12.5 kHz 18kHz		1+	1 +	
			3 dB	
		+3 dB		

12-18. Overall S/N Ratio Measurement

As shown in Fig. 12-26.

Connection:

Switch Setting:

MONITOR switch TAPE

VR Setting:

Procedures:

AUX VOLUME indicated on page 25

(2) Deliver a 1 kHz signal of -10 dB (0.24 V) into the AUX INput jack and record the (1) Thread a blank tape.

signal on the blank tape.

- (3) Remove the input connection of the audio generator and terminate the MIC and the
- AUX (Nput jacks with the dummy resistors (MIC-600n, AUX-10kn).

 (4) Rewind the recorded tape and erase a part of the recorded tape (record mode with
- no signal input).

 (5) Be sure that the ratio of the recorded part of the tape to the crased part on the VTVM. is more than 45 dB.

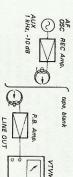


Fig. 12-26 Overall S/N ratio measurement setup

12-19. Distortion Measurement

Connection:

As shown in Fig. 12-27.

Switch Setting:

MONITOR switch TAPE

VR Setting:

AUX VOLUME. indicated on page 25

(1) Before measuring the distortion, be sure that the trap coil adjustment has been made.