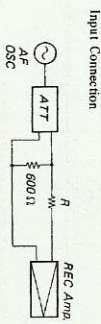


**Note:**

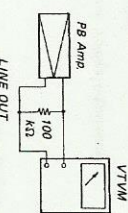
(1) Before connecting the measuring equipments to the input or the output jack of the machine, take the impedance-matching correctly as shown below.

Input	Rated Input Level (Input Impedance)	Output	Rated Output Level (Load Impedance)
MIC	-60 dB (600 Ω)	LINE	0 dB (100 kΩ)
AUX	-10 dB (10 kΩ)	OUT	0 dB (100 kΩ)
REC/PB Connector	-33 dB (80 kΩ) or	REC/PB Connector	0 dB (100 kΩ) or



Input	R
AUX	10 kΩ
MIC	0 Ω
REC/PB Connector	80 kΩ

**Output Connection**



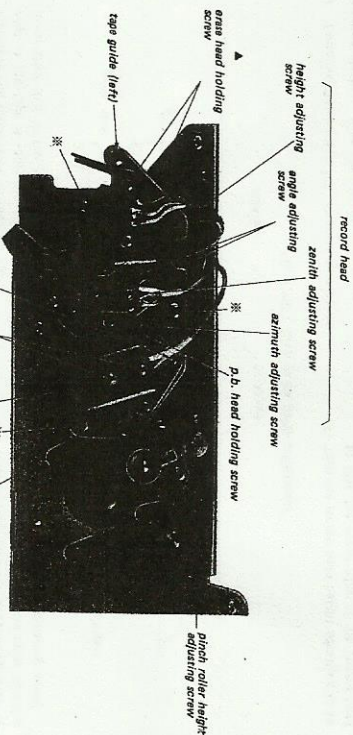
- (2) During the adjustment, the MIC VR and the AUX VR should be set at the position described below, unless otherwise specified.
- MIC VR..... Set them to the position where the LINE OUT level is 0dB (0.775V) when delivering a 1 kHz signal of -60 dB (0.775 mV) into the MIC jack with the AUX VR set to the minimum position and the MONITOR SW set to SOURCE position.

AUX VR..... Set them to the position where the LINE OUT level is 0dB (0.775V) when delivering a 1 kHz signal of -10dB (0.44V) into the AUX jack with the MIC VR set to the minimum position and the MONITOR SW set in SOURCE position.

- (3) Before making the head adjustment, demagnetize and clean the RECORD head and the P.B. head with soft or soft cloth dampened with denatured alcohol.
- (4) The switches should be set in the following positions, unless otherwise specified.  
TAPSE SELECT SW.....NORMAL  
NOISE SUPPRESS SW.....OFF
- (5) A new type of a self-heating-demagnetized tape should be used as a blank test tape.
- (6) The adjustment should be made in numerical order:
  - (12-1) Power Voltage Adjustment
  - (12-2) Tape Pass Adjustment
  - (12-3) Tape Curl Adjustment
  - (12-4) P.B. Head Azimuth & Angle Adjustments
  - (12-5) P.B. Head Phase Check
  - (12-6) P.B. Output Level Adj. & Level Meter Calibration
  - (12-7) P.B. Equalizer Adjustment
  - (12-8) P.B. S/N Ratio Check
  - (12-9) Trap Coil Adjustment
  - (12-10) Record Head Azimuth and Track Position Adjustments
  - (12-11) Record Head Phase Check
  - (12-12) Record Bias Adjustment
  - (12-13) Record Level Adjustment
  - (12-14) Record Equalizer Adjustment
  - (12-15) Dummy Coil Adjustment
  - (12-16) Erase Ratio Measurement
  - (12-17) Overall Frequency Response Measurement
  - (12-18) Overall S/N Ratio Measurement
  - (12-19) Distortion Measurement
  - (12-20) Crosstalk Measurement (between channels)
  - (12-21) Crosstalk Measurement (between tracks)

**Note on replacing the head:**

1. Erase Head Removal  
When removing the erase head from the head deck, remove the two screws shown with \* in Fig. 12-1. (Do not remove the three screws shown with \* in Fig. 12-1).
2. Record or P.B. Head Removal  
When removing the record or the p.b. head, remove the respective angle adjusting screws. (Do not turn the screws except the angle adjusting screws.)
3. After replacing the heads, be sure the following items.
  - (1) Erase Head  
The tape touches at the center of erase head core.
  - (2) The tape comes in contact with the scrape flutter filter roller in FWD mode.



CAUTION: Do not remove the three screws marked with \*.  
Fig. 12-1 Adjusting parts location (1)