

12-21. Cross-talk Measurement (between tracks)

- (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) Be sure that the reading on the distortion meter is less than 1.5%.

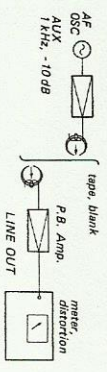


Fig. 12-27 Distortion measurement setup

12-20. Cross-talk Measurement (between channels)

- Connection: As shown in Fig. 12-28.
- Switch Setting: MONITOR switch TAPE
- VR Setting: AUX VOLUME indicated on page 25

Procedures:

- (1) Thread a blank tape.
- (2) Place the machine in stereo-record mode.
- (3) Deliver a 1 KHz signal of +10dB (2.5V) into the L-CH AUX Input jack.
- (4) Be sure that the ratio of the L-CH LINE OUTPUT to the R-CH LINE OUTPUT on the VTVM is more than 45 dB.

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

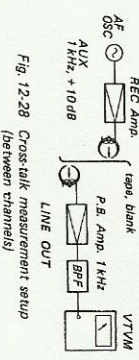


Fig. 12-28 Cross-talk measurement setup (between channels)

12-22. Noise Suppress Check (between tracks)

- Connection: As shown in Fig. 12-29.
- Switch Setting: MONITOR switch TAPE
- VR Setting: AUX VOLUME indicated on page 25

Procedures:

- (1) Thread a blank tape.
- (2) Place the machine in stereo-record mode.
- (3) Deliver a 1 KHz signal of +10dB (2.5V) into the L-CH & R-CH AUX Input jacks and record the signal on the blank tape.
- (4) Playback the tape and memorize the L-CH or R-CH VTVM reading, and then take up the tape.
- (5) Turn the recorded tape upside down and put it on the supply reel table.
- (6) Playback the recorded portion of the tape and memorize the L-CH or the R-CH VTVM reading.
- (7) Be sure that the ratio of the VTVM reading obtained in procedure (4) to the VTVM reading obtained in procedure (6) is more than 65 dB.

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

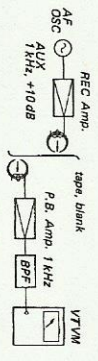


Fig. 12-29 Cross-talk measurement setup (between tracks)

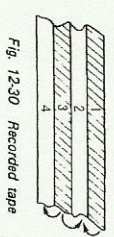


Fig. 12-30 Recorded tape

12-22. Noise Suppress Check

- Connection: As shown in Fig. 12-31.
- Switch Setting: MONITOR switch SOURCE NOISE SUPPRESS switch OFF
- VR Setting: AUX VOLUME indicated on page 25

Procedures:

- (1) Deliver a 9 KHz signal of -10dB (0.24V) and adjust the AUX VOLUME to obtain 0dB (0.775V) on the VTVM.
- (2) Be sure that the VTVM reading is -5.5 ~ -1.5 dB (0.41 ~ 0.65V) when the NOISE SUPPRESS switch is changed to ON.

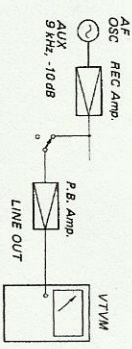


Fig. 12-31 Noise suppress check setup

12-23. Interference Check between MIC & AUX VOLUMES

- Connection: As shown in Fig. 12-32.
- Switch Setting: MONITOR switch SOURCE
- VR Setting: AUX VOLUME indicated on page 25

Procedures:

- A) Interference with MIC VOLUME when using AUX INPUT jack
 - (1) Set the AUX VOLUME to the position indicated on page 25.
 - (2) Deliver a 1 KHz signal of -10dB (0.24V) into the AUX Input jack.
 - (3) Be sure that the level variation is within 1.5dB on the VTVM when the MIC VOLUME is changed from the minimum to the maximum position.
- B) Interference with AUX VOLUME when using MIC jack
 - (1) Set the MIC VOLUME to the position indicated on page 25.
 - (2) Deliver a 1 KHz signal of -60 dB (0.775 mV) into the MIC jack.

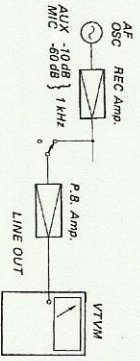


Fig. 12-32 Interference check setup between MIC & AUX VOLUMES

12-24. Minimum Input Level Check

- Connection: As shown in Fig. 12-33.
- Switch Setting: MONITOR switch SOURCE
- VR Setting: AUX VOLUME indicated on page 25

Procedures:

- A) Level Check of MIC jack
 - (1) Set the AUX VOLUME to minimum and the MIC VOLUME to maximum position.
 - (2) Deliver a 1 KHz signal into the MIC jack and adjust the level of the audio oscillator to obtain 0dB (0.775V) on the VTVM.
 - (3) Be sure that the signal level on the audio oscillator is less than -72dB (0.2mV).
- B) Level Check of AUX Input jack
 - (1) Set the MIC VOLUME to minimum and the AUX VOLUME to maximum position.
 - (2) Deliver a 1 KHz signal into the AUX Input jack and adjust the level of the audio oscillator to obtain 0dB (0.775V) on the VTVM.
 - (3) Be sure that the signal level on the audio oscillator is less than -22dB (61.5mV).

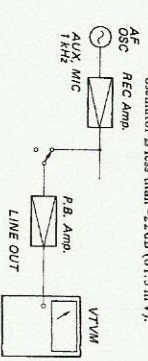


Fig. 12-33 Minimum input level check setup