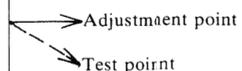


# VII. ELECTRICAL ADJUSTMENT

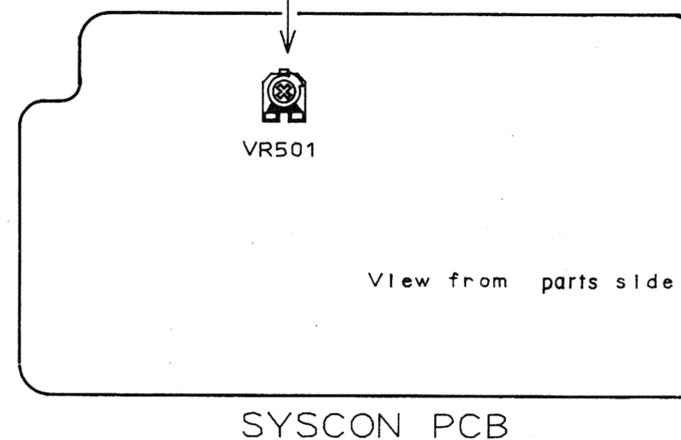
- NOTES**
- All adjustment should be performed with DOLBY, HX-PRO, and MPX FILTER switches OFF (except STEP 8, 10, 11, and 15).
  - Controls setting:  
 REC LEVEL: Max.  
 PHONES LEVEL: Max.  
 CALIBRATION LEVEL and BIAS: Center click position.
  - Use the following cassette tape for measurement:  
 NORMAL TAPE : MAXELL UD1 C-60  
 CrO<sub>2</sub> TAPE : TDK SA C-60  
 METAL TAPE : TDK MA C-60

**ADJUSTMENT KEY**

STEP No.	ADJUSTMENT ITEM
1.	Test tape, Supply signal
2.	MODE
3.	Adjustment Parts
4.	Result/Remarks



1	TAPE SPEED
1.	3, 150Hz (AT-751263)
2.	PLAY
3.	VR501
4.	150±2Hz



3	METER SENSITIVITY (-40dB)
1.	1kHz
	Set the audio signal generator output control, so that the LINE OUTPUT level is -37.0dBm.
2.	STOP, SOURCE MONITOR
3.	VR203
4.	-40dB segments light on*
	* Repeat Step 2

2	METER SENSITIVITY (0VU)
1.	1kHz
	Set the audio signal generator output control, so that the LINE OUTPUT level is -6.0dBm.
2.	STOP, SOURCE MONITOR
3.	VR202 (Lch), VR202b (Rch)
4.	0VU segments light on.

14	CAL METER
1.	NORMAL blank tape
2.	CAL SW on
	REC/PLAY
3.	VR201 (LEVEL), VR201b (BIAS)
4.	Meter indicator should not exceed BIAS and LEVEL indicator.

15	MPX FILTER
1.	19kHz, -6.0dBm
2.	STOP, SOURCE MONITOR
	MPX SW on
3.	FL151 (Lch), FL151b (Rch)
4.	Minimum level of millivolt meter.

4	PLAY BACK LEVEL
1.	315Hz (AT-750773)
2.	PLAY
3.	VR152 (Lch), VR152b (Rch)
4.	-6.0±0.1dBm

13	RECORDING LEVEL
1.	NORMAL blank tape
	315Hz, -6dBm
2.	REC/PLAY
3.	VR332 (Lch), VR332b (Rch)
4.	-6.0±0.1dBm
	* See notes 2, 3.

5	PLAY BACK EQUALIZER LEVEL
1.	10kHz (AT-750778)
2.	PLAY
3.	VR101 (Lch), VR101b (Rch)
4.	-21.0±0.3dBm

7	BIAS DIP POINT
1.	METAL blank tape
2.	REC
3.	T551 and T551b
	Connect a digital voltmeter both end of the R557.
4.	Minimum level of DC range.

9	NORMAL POSITION FREQUENCY RESPONSE (HX-PRO OFF)
1.	NORMAL blank tape
	1kHz, 12.5kHz -26dBm
2.	REC/PLAY HX-PRO SW off
3.	VR553 (Lch), VR553b (Rch)
4.	-26.0±0.3dBm (1kHz, 12.5kHz)
	* See notes 2, 3.

10	CrO <sub>2</sub> POSITION FREQUENCY RESPONSE
1.	CrO <sub>2</sub> blank tape
	1kHz, 12.5kHz -26dBm
2.	REC/PLAY HX-PRO SW on
3.	VR501
4.	-26.0±0.3dBm (1kHz, 12.5kHz)
	* See notes 2, 3.

11	METAL POSITION FREQUENCY RESPONSE
1.	METAL blank tape
	1kHz, 12.5kHz -26dBm
2.	REC/PLAY HX-PRO SW on
3.	VR502
4.	-26.0±0.3dBm (1kHz, 12.5kHz)
	* See notes 2, 3.

8	NORMAL POSITION FREQUENCY RESPONSE (HX-PRO ON)
1.	NORMAL blank tape
	1kHz, 12.5kHz -26dBm
2.	REC/PLAY HX-PRO SW on
3.	VR552 (Lch), VR552b (Rch)
4.	-26.0±0.3dBm (1kHz, 12.5kHz)
	* See notes 2, 3.

12	ERASE BIAS CURRENT
1.	METAL blank tape
	1kHz, -6dBm
2.	REC/PLAY
3.	R506
	Connect a digital voltmeter both end of R514.
4.	More than AC 290mV*
	* If this measurement is not obtained, remove the R506.

6	BIAS FREQUENCY
1.	METAL blank tape
2.	REC
3.	T501
	Connect a frequency counter between P501 and GND.
4.	105.0±0.1kHz*
	* If this adjustment is not obtained, remove the C508, and repeat this adjustment.

