

4. ADJUSTMENTS

1. Test & Adjustment point

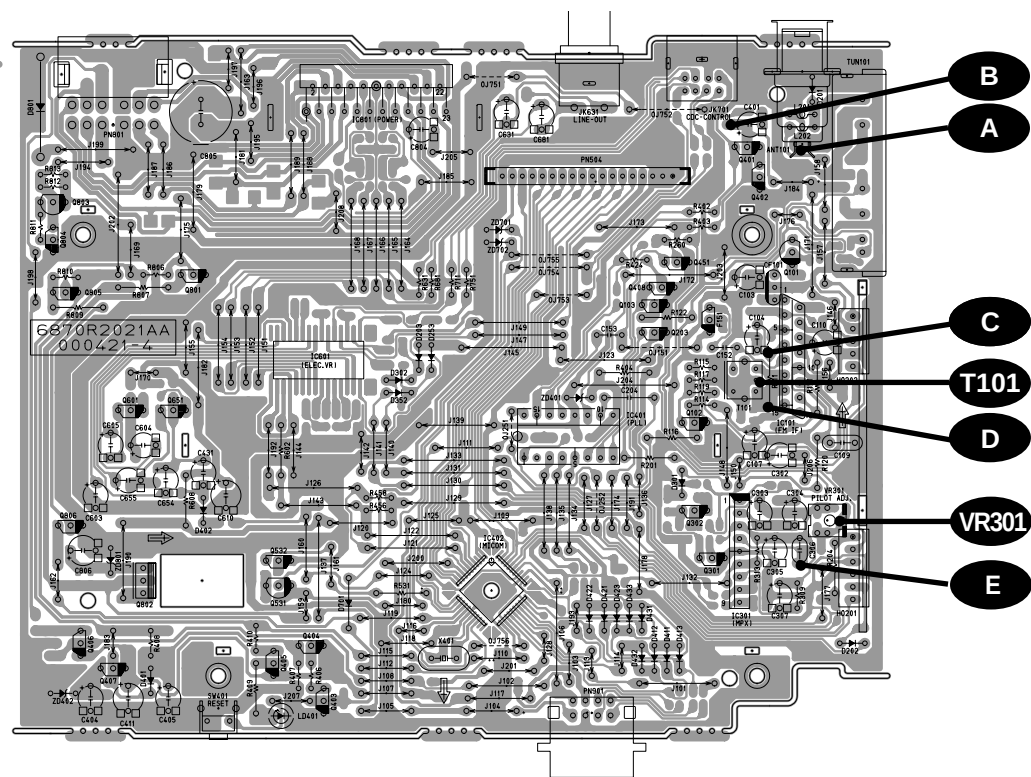


Figure 1. MAIN PCB Board

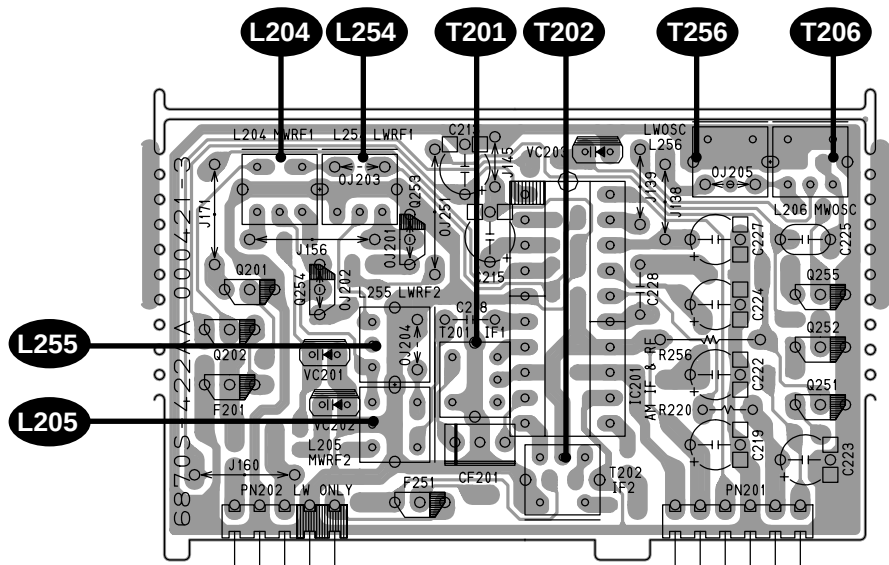


Figure 2. RF PCB Board

2. FM Adjustment

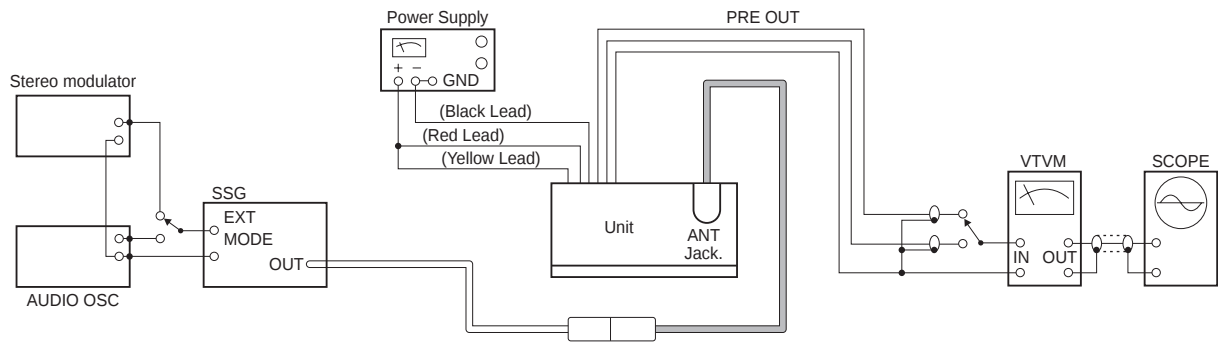


Figure 3.

- (1) The impedance of FM antenna terminal is 75Ω
Therefore, connect coaxial cable (3C-2V etc.) between FM SG and antenna terminal when wiring.

Type \ Item	FM SSG Attenuator Indication	Available Power Ratio	Antenna Terminal Voltage
Open indication type	0dB 60dB	5.2dBf 65.2dBf	6dB/μV 66dB/μV
Load or close indication type	0dB 54dB	11.2dBf 65.2dBf	12dB/μV 66dB/μV

- (2) There are two kind in indication of FM SG output attenuator.
- 1) Attenuator with Marking of 75Ω open...open indication type
 - 2) Attenuator with marking of 75Ω load or close...load or close indication type.
- (3) FM SG output level in this FM adjustment are described as open indication type. The left table shows relations among FM SG attenuator indication(dB), available power ratio(dBf) and antenna terminal voltage(dB/μV) in each indication type.

Notes:

- 1. BAND Switch FM
- 2. BALANCE Center
- 3. TREBLE/BASS Center
- 4. Connect as shown in figure 3.
- 5. Refer to figure 1~2 for Adjustment Points.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUSTMENT	ADJUST FOR
		FROM	TO			
1	Discriminator	98MHz 60dB 22.5kHz Dev. 1kHz FM SSG	ANT Jack or Point A	Between Point C & Point D, DC Volt Meter.	T101	DC 0V±10mV
2	MPX Adjustment	98MHz 60dB 75kHz Dev.1kHz FM SSG	Same as above	Between Point E & GND, Frequency Counter	VR301	76kHz±50Hz

3. AM(MW) Adjustment

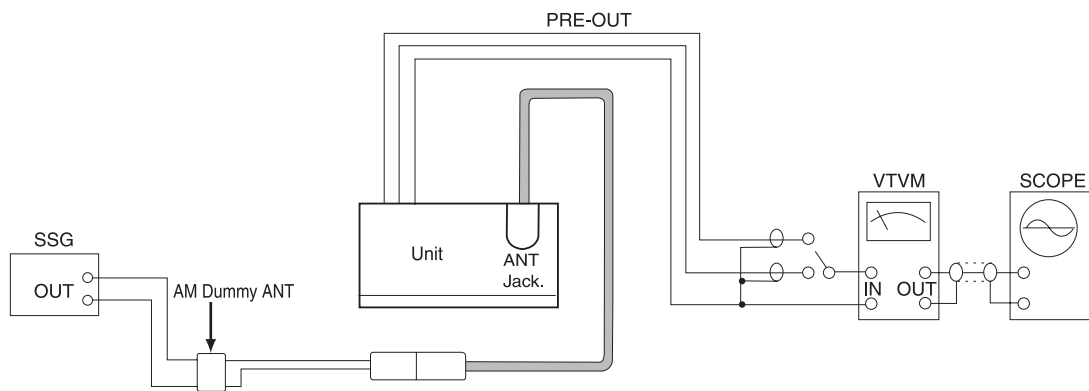


Figure 4.

Notes:

- 1. BAND Switch AM(MW)
- 2. Connect as shown in figure 4.
- 3. Refer to figure 1~2 for Adjustment Points.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUSTMENT	ADJUST FOR
		FROM	TO			
1	520 or 522kHz	No Input		LCD Display (Reception Frequency)	TUNE +/- Button	520 or 522kHz
	Tuning Voltage Adjustment			Between Point B and GND, DC Volt Meter	L206	DC 1.2V±0.05V
2	IF Coil Adjustment	600kHz or 603kHz ANT input, 30dB, 400Hz (30% MOD) SSG.	ANT Jack or Point A	Output L or R ch, VTVM & Oscilloscope	T201 & T202	Max. Output
3	600kHz or 603kHz RF Adjustment	600kHz or 603kHz ANT input, 30dB, 400Hz (30% MOD) SG.	Same as above	LCD Display (Reception Frequency)	TUNE +/- Button	600 or 603kHz
				Output L or R ch, VTVM & Oscilloscope	L204 & L205	Max. Output

4. LW Adjustment(Optional)

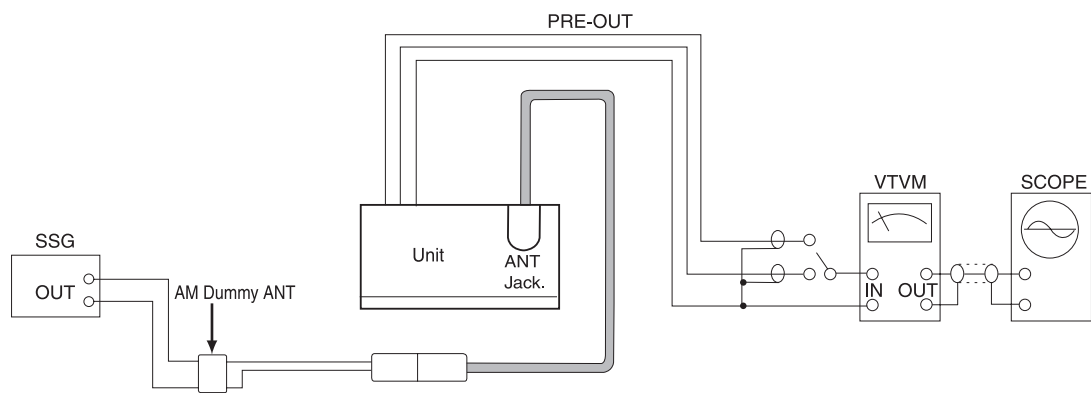


Figure 5.

Notes:

- 1. BAND Switch LW
- 2. Connect as shown in figure 5.
- 3. Refer to figure 1~2 for Adjustment Points.

STEP	SUBJECT	FEED SIGNAL		MEASURE OUTPUT	ADJUSTMENT	ADJUST FOR
		FROM	TO			
1	144kHz	No Input		LCD Display (Reception Frequency)	TUNE +/- Button	144kHz
	Tuning Voltage Adjustment			Between Point B and GND, DC Volt Meter	L256	DC 1.2V±0.05V
2	150kHz RF Adjustment	150kHz ANT input, 30dB, 400Hz (30% MOD) SSG.	ANT Jack or Point A	LCD Display (Reception Frequency)	TUNE +/- Button	150kHz
				Output L or R ch, VTVM & Oscilloscope	L254 & L255	Max. Output

5. Cassette Deck Adjustment

- (1) Before this adjustment, clean PLAYBACK head surface.
- (2) For this adjustment, use test tape MTT-114.
- (3) VOLUME Center
- (4) BALANCE Center
- (5) TREBLE/BASS Center
- (6) Connect as shown in figure 6.

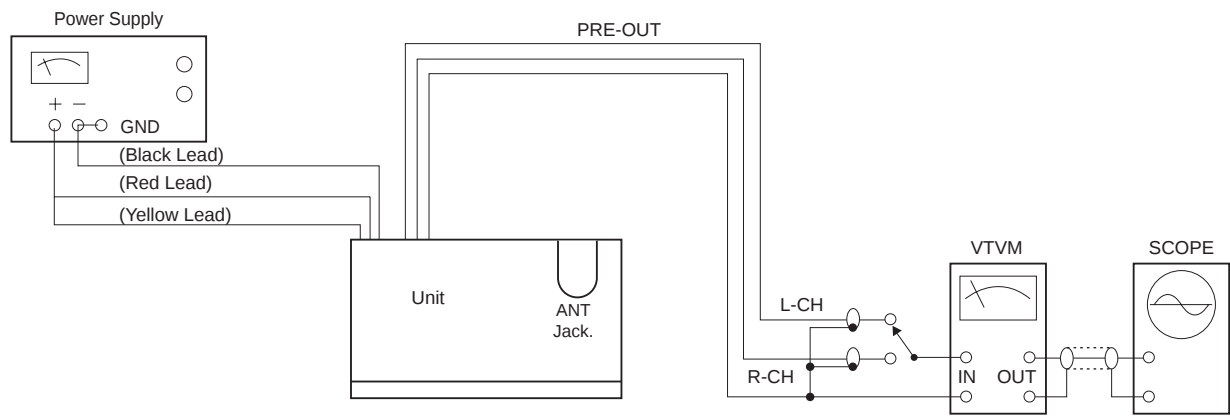


Figure 6.

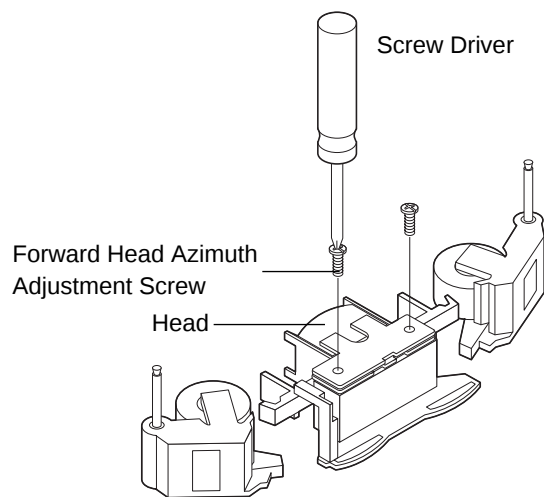


Figure 7.

SUBJECT	MEASURE OUTPUT	SETTING	ADJUSTMENT	ADJUST FOR	REMARKS
P.B Head Adjustment	L-CH, R-CH, VTVM and Scope See figure 6.	Playback(FWD & REV) the TEST TAPE MTT-114	Adjust the azimuth adjusting screw (in figure 7).	Max. Output both channels on FWD and REV PLAY	After this adjustment, lock the screw with paint.