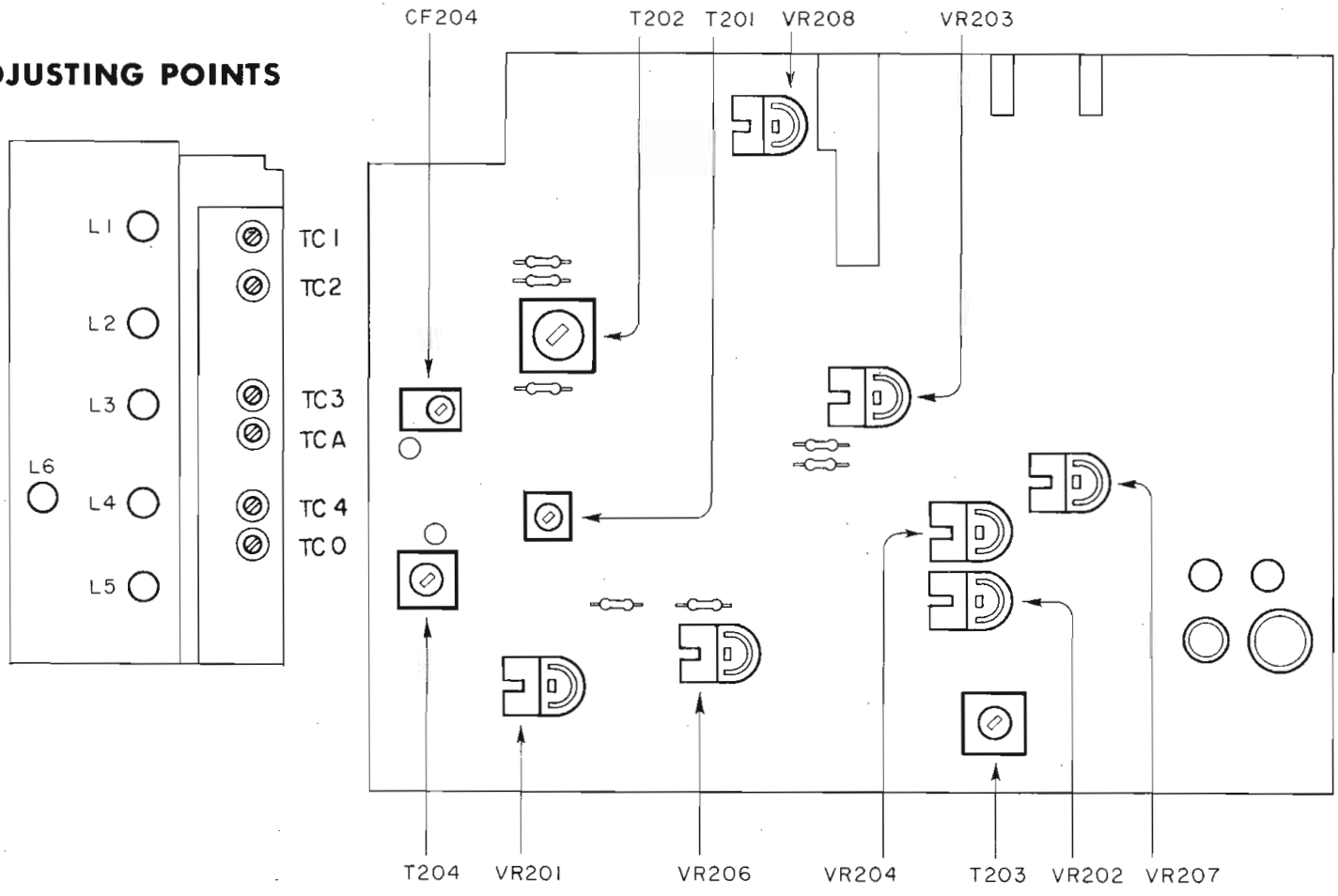
ADJUSTING POINTS



SEMI FIXED RESISTORS

VR201 . . . . . Phase Distortion Compensate
VR202 . . . . . Separation Adjusting
VR203 . . . . . VCO Free Run Frequency Adjusting
VR204 . . . . . Output Level Adjusting
VR206 . . . . . Signal Strength Meter Sensitivity
VR207 . . . . . Pilot Signal Erase Level Adjusting
VR208 . . . . . REC. CAL. Signal Level Adjusting

TRANSFORMERS

T201 . . . . . Phase Distortion Compensate
T202 . . . . . Discriminator Coil
T203 . . . . . 19KHz Resonant Coil

FM HIGH END TRACKING TRIMMER CAPACITORS

TC1 . . . . . Antenna Trimmer
TC2 . . . . . Antenna Trimmer
TC3 . . . . . RF Trimmer
TC4 . . . . . RF Trimmer

FM LOW END TRACKING ADJUST CORES

L1 . . . . . Antenna Coil Core
L2 . . . . . Antenna Coil Core
L3 . . . . . RF Coil Core
L4 . . . . . RF Coil Core
L5 . . . . . OSC Coil Core
L6 . . . . . IF Coil Core

AM HIGH END TRACKING TRIMMER CAPACITORS

TCA . . . . . High End Sensitivity
TCO . . . . . Local Oscillating Frequency Adjusting

AM LOW END TRACKING ADJUST CORES

T204 . . . . . OSC Coil Core
CF204 . . . . . Low End Sensitivity

ADJUSTING CIRCUIT BOARD

STEP	ITEMS	POINT	CONNECTING POINT		EQUIPMENT	METHODE	INDICATION
			INPUT	OUTPUT			
1	DISCRI. BALANCE	T202(S)			TUNING METER (built in)	Detuning point (98MHz) Turn the up-side core	0 (zero)
2	TUNING POINT SETTING	Tuning Knob	FM Ant.		FM SG 98MHz 60dBμ	Tune the knob so that TUNING METER read center.	
3	DISCRI. ADJUSTING	T202(P)	FM Ant.	Output Terminal(L)	FM SG –do– mono. 400Hz 100% OSC. VTVM Distortion Meter (DM)	Turn the bottom-side core so that distortion becomes minimum.	–60dB or less
4	VCO FREE RUN FREQUENCY	VR203	FM Ant.	19K Test Point	FM SG –do– Frequency Counter (FC.)	Adjust VR203 so that FC. reads 19KHz (confirm that FM SG is set to mono.)	19KHz±20Hz
5	PHASE DISTORTION	VR201 T201	FM Ant.	Output Terminal(L)	FM SG 98MHz 60dBμ stereo 400Hz 100% OSC. VTVM DM.	Turn VR201 and T201 so that distortion becomes minimum.	–58dB or less
6	PILOT SIGNAL ERASE	VR207 T203	FM Ant.	TR206 Emitter	FM SG 98MHz 60dBμ stereo pilot:9%	Connect VTVM and OSC to the emitter of TR206, and adjust VR-207 and T203 so that carrier level becomes minimum.	60dB or more (both ch.)
7	SEPARATION ADJUSTING	VR202 VR204	FM Ant.	Output Terminal	FM SG 98MHz 60dBμ stereo 400Hz 100% VTVM	Turn VR202 first so that output level of L and R are balanced. After that, turn VR204 so that separation becomes maximum.	50dB or more
8	SIGNAL METER SENSITIVITY	VR206	FM Ant.		FM SG 98MHz 80dBμ Mod:0% SIGNAL METER (built in)	Turn VR206 so that SIGNAL METER reads 90.	

ADJUSTING TRACKING ERROR OF FM SECTION

STEP	ITEMS	ADJUSTING POINT	CONNECTING POINT		METHODE	REMARKS
			INPUT	EQUIPMENT		
1	**POINTER OF DIAL CARIBRATION**	POINTER	FM Ant.	FM SG 98MHz 60dBμ	Tune the receiver to SG, then, loosen the pointer dial string, and set to 98MHz of the scale.	±1mm or less
2	**HIGH END TRACKING-ERROR CONFIRMATION**	Check only	FM Ant.	FM SG 108MHz 60dBμ	Tune the receiver to SG, then confirm that the pointer is on 108MHz of the scale.	±2mm or less
3	**TRACKING ERROR TRIMMING** (When proper confirm-ation cannot be made by step 2, proceed step 3)	Pointer	FM Ant.	FM SG 88 to 108MHz 60dBμ	Reset the pointer, so that error of reading becomes minimum in all range of the scale.	
4	**TRACKING ERROR TRIMMING** (When proper adjustment cannot be made by step 3, proceed step 4)	Pointer	FM Ant.	FM SG 98MHz 108MHz	Trim error by the pointer and L5 alternately. 98MHz – pointer of dial 108MHz – L5	
5	**HIGH END SENSITIVITY**	TC1, 2, 3, 4	FM Ant.	FM SG 108MHz	Turn TC1, 2, 3 and 4 so that SIGNAL METER swings maximum.	
6	**LOW END SENSITIVITY**	L1, 2, 3, 4	FM Ant.	FM SG 98MHz	Turn the cores of L1, 2, 3 and 4 so that SIGNAL METER swings maximum.	

ADJUSTING TRACKING ERROR OF AM SECTION

STEP	ITEMS	ADJUSTING POINT	CONNECTING POINT		METHODE	REMARKS
			INPUT	EQUIPMENT		
1	**LOCAL OSCILLATING COIL ADJUSTING**	T204	AM Ant.	AM SG 600KHz	Tune the pointer to 600KHz of the scale, then turn the core of T204, so that SIGNAL METER swings maximum.	
2	**LOW END SENSITIVITY**	Ant. Coil CF204	AM Ant.	AM SG 600KHz	Slide Ant. coil, and turn the core of CF204, so that SIGNAL METER swings maximum.	
3	**HIGH END TACKING ERROR TRIMMING**	TCO	AM Ant.	AM SG 1350KHz	Tune the pointer to 1350KHz on the saale, then turn TCO, so that SIGNAL METER swings maximum.	
4	**HIGH END SENSITIVITY**	TCA	AM Ant.	AM SG 1350KHz	Turn TCA and maximize SIGNAL METER.	