

FM IF and RF Alignment / FM MPX Alignment GTP-500II

Instruments: FM Stereo Signal Generator (400Hz, Modulated @ 100%), THD Analyzer, Oscilloscope, AC Voltmeter, Digital DC Voltmeter

Connections: THD Analyzer, Oscilloscope and AC Voltmeter to audio outputs (LEFT or RIGHT as necessary).

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Not Necessary		87.5MHz	L107	3V reading, $\pm 0.1V$, on DC Voltmeter across TP3 & TP4
2			108MHz	CT104	23V reading, $\pm 0.2V$, on DC Voltmeter across TP3 & TP4
3	Repeat steps 1 and 2 until no further improvement is observed.				
4	Antenna terminal, input below limiting of IF	90MHz	90MHz	L102, L103, L104	Maximum reading on AC Voltmeter
5		105MHz	105MHz	CT101, CT102, CT103	Maximum reading on AC Voltmeter
6		98MHz	98MHz	L106	Maximum output, minimum distortion
7	Repeat steps 4, 5 and 6 until no further improvement is observed. (MUTING OFF)				
8	Antenna terminal, 1mV input	90MHz	90MHz	L151(A)	0.000V, $\pm 0.003V$, on DC Voltmeter connected across TP1&TP2
9				L151(B)	Minimum reading on THD Analyzer
10	Repeat steps 8 and 9 until no further improvement is observed. (MUTING OFF)				
11	Antenna terminal, 15uV input	90MHz	90MHz	VR 151	Muting level (MUTING ON)
12	Antenna terminal, 1mV input	90MHz	90MHz	VR 152	SIGNAL LEVEL INDICATOR 5th LED ON
13	Antenna terminal, 1mV input (L or R)	98MHz Pilot@10%, 1kHz @ 90% mod.	98MHz	VR 301	Best separation MUTING ON, HI BLEND OFF

AM IF and RF Alignment

Instruments: AM Signal Generator (400Hz, Modulated @ 30%), AC Voltmeter, Oscilloscope, DC Voltmeter,

Connections: AC Voltmeter and Oscilloscope to audio outputs (LEFT or RIGHT).

Step	Generator		Tuning Dial Setting	Adjust	Adjust for
	Coupling	Frequency			
1	Not Necessary		530kHz (531kHz) Europe	L203	3V, $\pm 0.1V$, on DC Voltmeter across TP3 & TP4
2			1600kHz (1602kHz) Europe	CT202	25V, $\pm 0.2V$, on DC Voltmeter across TP3 & TP4
3	Repeat steps 1 and 2 until no further improvement is observed.				
4	Use Test Loop.	450kHz	530kHz	L204	Maximum reading on AC Voltmeter
5	Use Test Loop. Radiate signal into loop antenna, 2mV input level	600kHz	600kHz	L202, L204	
6		1400kHz	1400kHz	CT201	
7	Repeat steps 5 and 6 until no further improvement is observed.				
8	Use Test Loop. Radiate signal into loop antenna, 5mV input level	1000kHz	1000kHz	VR201	SIGNAL LEVEL INDICATOR 5th LED ON

