

Circuit No	under test	Position of switches	Signal - Source			Remarks	Signal - Output			Remarks	Test Limits
			Signal Generator	Frequency	connected to		Measured with	connected to	Adjust		
1	I.F.	FM-SWITCH IN "MUTE IN" POSITION	C.W. OSCILLATOR	10.7 MC.	GRID V103	THRU .01 MFD CAP.	V.T.V.M. (DC)	T.P.1	T103: UPPER AND T104: LOWER TUNING T105: CORES FOR MAX.	SHUNT WINDING NOT UNDER ADJUSTMENT WITH A 1K OHM RESISTOR.	MR66 FM
					GRID V102B	THRU 4.7 MMFD. CAP.	V.T.V.M. (DC)	T.P.1	T102: UPPER AND LOWER TUNING CORES FOR MAX.		
DISCRIMINATORS	FM-SWITCH IN "MUTE IN" POSITION	-	C.W. OSCILLATOR	10.7 MC.	GRID V106	THRU .01 MFD CAP.	V.T.V.M. (DC)	JUNCTION R131-132	T106: LOWER TUNING CORE FOR MAX.		
								Low-End L111	T106: UPPER TUNING CORE FOR ZERO		
								JUNCTION R136-137	T107: LOWER TUNING CORE FOR MAX.		
								Low-End R139	T107: UPPER TUNING CORE FOR ZERO		
FM-METER	FM-SWITCH IN "OFF" POSITION	-	-	-	CARE SHOULD BE TAKEN THAT NO SIGNAL IS BEING RECEIVED	FM-METER	-	R155: FOR CENTER	BEFORE MAKING ADJUSTMENT CENTER MECHANICALLY WITH TUNER "OFF."		

Step No	Circuit under test	Position of switches	Signal - Source			Remarks	Signal - Output			Remarks	Test Limits						
			Signal Generator	Frequency	connected to		Measured with	connected to	Adjust								
4	L.O.	FM-SWITCH IN "MUTE IN" POSITION "AFC" CONTROL "OFF"	C.W. OSCILLATOR	1MC INTEGRAL MULTIPLES IN FM-BAND	FM-ANTENNA TERMINALS	THRU BALUN.	FM-METER	-	L113: FOR CENTER AT 90 MC. C101D: FOR CENTER AT 105 MC.	ALSO CALIBRATE DIAL AT 1 MC-INTERVALS	1 POINTER WIDTH						
5A	R.F. AND OVER-ALL	FM-SWITCH IN "MUTE OUT" POSITION "AFC" CONTROL "OFF" "MODE" SWITCH IN "MON. FM" POSITION	FM-GENERATOR	90MC	FM ANTENNA TERMINALS	THRU BALUN. GEN. OUTPUT: VARIABLE	V.T.V.M. (DC)	T.P.1	L102: FOR MAX. AT 90 MC.	STEPS: 5A 5B 5C 5D 5E ARE IN INTERRELATED AND SHOULD BE REPEATED IF NECESSARY	.8% OR LESS						
5B				105MC					75KC DEV. 400CPS			THRU BALUN. GEN. OUTPUT: 1KV.	DISTORTION ANALYZER	"STEREO" "MON. FM" OUTPUT JACK	T107: LOWER TUNING CORE FOR MIN-DISTORTION		
5C				90MC					105MC			75KC DEV. 400CPS	THRU BALUN. GEN. OUTPUT: VARIABLE		L101: FOR MAX. USABLE SENS. AT 90 MC. L103: FOR MAX. USABLE SENS. AT 105 MC. C102:		
5D														V.T.V.M. (DC)	T.P.1	L101: TAP FOR OPTIMUM IMAGE - REJECTION AT 105 AND 90MC.	90MC: 80 DB OR BET 105MC: 70 DB OR BET
5E												100MC	75KC DEV. 50CPS		OSCILLOSCOPE SYNCHRONISED WITH INPUT SIGNAL.	T.P.1	T102: RETOUCH IF NECESSARY FOR OPTIMUM BAND-PASS RESPONSE

Circuit under test	Position of switches	Signal - Source			Remarks	Signal - Output			Remarks	Test Limits
		Signal Generator	Frequency	connected to		Measured with	connected to	Adjust		
"OVER ALL"	FM SWITCH IN "MUTE OUT" POSITION AFC CONTROL "OFF"	FM-GENERATOR	100MC 75KC DEV. 400CPS	FM ANTENNA TERMINALS	THRU BALUN, GEN. OUTPUT: VARIABLE	V. T. V. M. (DC) MLTPX OUT	T107: UPPER TUNING CORE FOR ZERO ON V. T. V. M.	ADJUSTMENTS SHOULD BE MADE WHILE TUNER IS TUNED TO INPUT SIGNAL, SUCH THAT EQUAL BREAK-OUTS OCCUR ON SCOPE PATTERN.		
						OSCILLOSCOPE "STEREO" "MON. FM" OUTPUT JACK	T106: UPPER TUNING CORE FOR CENTER ON FM-METER			
"OVER ALL" DE-EMPHASIS	FM SWITCH IN "MUTE OUT" POSITION	FM-GENERATOR	100MC 75KC DEV. 400CPS	FM-ANTENNA TERMINALS	THRU BALUN	DISTORTION ANALYZER "STEREO" "MON. FM" OUTPUT JACK	-	DETERMINE DROP OF AUDIO OUTPUT IN DB. FOR MODULATION FREQUENCIES OF 10KC AND 20CPS	10KC (AFC-OFF)- 12.8 to 13.5DB. 20CPS (AFC-ON)- 2DB. OR LESS	
"OVER ALL" MUTING	FM SWITCH IN "MUTE OUT" POSITION	FM-GENERATOR	100MC 75KC DEV. 400CPS	FM-ANTENNA TERMINALS	THRU BALUN, GEN. OUTPUT: VARIABLE	OSCILLOSCOPE "STEREO" "MON. FM" OUTPUT JACK	R159: FOR SUPPRESSION OF NOISE TO A LEVEL WHERE APPROX 25uV OF GEN. OUTPUT IS NEEDED TO OVERCOME MUTING ACTION.	ALSO CHECK IF NOISE APPEARS AT BOTH SIDES OF TUNING-IN POINT.		

Step No	Circuit under test	Position of switches	Signal - Source			Remarks	Signal - Output			Remarks	Test Limits
			Signal Generator	Freq. Dev.	connected to		Measured with	connected to	Adjust		
9	"OVER-ALL HUM"	FM-SWITCH IN "MUTE OUT" POSITION	FM GENERATOR	100MC 75KC DEV. 400CPS	FM ANTENNA TERMINALS	GENERATOR AND CW OSCILLATOR COUPLED THRU BALUN INDIVIDUALLY	DISTORTION ANALYZER	"STEREO" MON.FM OUTPUT JACK	-	WITH GENERATOR, SET LEVEL AT 100MC, THEN WITH CW OSC. AT 90MC MEASURE HUM.	65DB OR BETTER
10	"OVER-ALL AFC"	FM SWITCH IN "MUTE OUT" POSITION	FM GENERATOR	90MC 105MC 75KC DEV. 400CPS	FM ANTENNA TERMINALS	THRU BALUN	OSCILLOSCOPE	"STEREO" MON.FM OUTPUT JACK	-	CHECK AFC ACTION	AFC SHOULD PULL-IN AT APPROX. 400KC OFF GEN. FREQ.