

Step No.	Circuit under test	Position of switches	Signal - Source			Remarks	Signal - Output			Remarks	Test Limits	
			Signal Generator	Freq- uency	connect- ed to		Measured with	con- nected to	Adjust			
1	I.F. AND A.G.C. IN "NARROW" POSITION	AM-SWITCH IN "NARROW" POSITION	C.W. OSCILLATOR	455 KC	GRID V202	THRU .01 MFD CAP.	V.T.V.M. (DC)	PC 107-165 POINT 3	T203: UPPER AND T204: LOWER T205: TUNING-CORES FOR MAX.	ADJUSTMENTS TO BE MADE AT LOW INPUT LEVELS	MR66	AM
								PC 107-164 POINT B	T206: UPPER AND LOWER TUNING CORES FOR MAX.			
2	L.O.	AM-SWITCH IN "NARROW" POSITION	CRYSTAL CALIBRATOR	ALL 100KC MULTIPLES IN B. C. BAND	AM-ANTENNA TERMINALS	THRU 50MMFD CAP.	AM-SENS-METER	-	L202: FOR MAX. AT 600KC C221: FOR MAX. AT 1500KC	BEFORE MAKING ADJUSTMENTS A. SET METER WITH TUNER "OFF", AT 5, MECHANICALLY. B. ZERO METER WITH R213 AT A NORMAL NOISE LEVEL.		
										CALIBRATE DIAL AT 100KC INTERVALS.	ONE POINTER WIDTH	
3	I.F.	AM-SWITCH IN "BROAD" POSITION	"SWEEP"-OSCILLATOR	455 ±15KC.	GRID V202	THRU .01MFD CAP.	OSCILLOSCOPE SYNCHRONIZED WITH INPUT SIGNAL	PC 107-165 POINT 3	T205: RETOUCH IF NECESSARY FOR FLAT TOP RESPONSE			

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			Signal Generator	Frequency	connected to		Measured with	connected to	Adjust		
4	R.F. AND "OVER ALL"	AM-SWITCH IN "BROAD" POSITION	"SWEEP"-OSCILLATOR	B.C. BAND ±15KC	AM-ANTENNA TERMINALS	THRU 50MMFD CAP.	OSCILLOSCOPE SYNCHRONIZED WITH INPUT SIGNAL.	PC 107-165 POINT 3	T201: FOR FLAT-TOP AND MAX. RESPONSE AT 600KC T202: ) C202A: FOR FLAT-TOP AND MAX. RESPONSE AT 1500KC C202B: )	CHECK ALSO AT 1000KC FOR FLAT-TOP AND MAX. RESPONSE. READJUST IF NECESSARY FOR OPTIMUM TRACKING ACROSS B.C.-BAND.	
5	"OVER ALL" (LOOP)	AM-SWITCH IN "BROAD" POSITION	"SWEEP" OSCILLATOR	B.C. BAND ±15KC	AM-ANTENNA TERMINALS	THRU "DUMMY"-LOOP ARRANGEMENT	OSCILLOSCOPE SYNCHRONIZED WITH INPUT SIGNAL.	PC 107-165 POINT 3		CHECK ACROSS B.C. BAND.	
6	"WHISTLE" FILTER	AM-SWITCH IN "NARROW" POSITION  "MODE" SWITCH IN "MON. AM" POSITION	C.W. OSCILLATOR	10KC	P.C. 107-165 POINT 3	THRU .01MFD CAP. GROUND GRID OF V304A	DISTORTION ANALYZER	"STEREO MON-AM" OUTPUT JACK	L203: ) L204: ) FOR MIN. R244: )	JUMP L203-204 TO SET LEVEL, THEN MEASURE 10K ATTENUATION WITH JUMPER REMOVED. USE FILTER.	BETTER THAN 70db

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7	"OVER ALL" SENSITIVITY	AM-SWITCH IN "NARROW" POSITION.  "MODE" SWITCH IN "MON. AM" POSITION	MODULATED GENERATOR	600KC 1000KC 1500KC AM MODULATED	AM-ANTENNA TERMINALS	THRU 50MMFD. CAP. GEN. OUTPUT: 10UV. %MODULATION: VARIABLE	DISTORTION ANALYZER	"STEREO" MON. OUTPUT JACK		DETERMINE PERCENTAGE OF MODULATION REQUIRED TO BRING ABOUT A 10DB INCREASE IN AUDIO OUTPUT.	USE %MOD. VERSUS SENSITIVITY CURVE TO ESTABLISH ENSTIFURE. THIS SHOULD NOT EXCEED 2UV.
8	"OVER ALL" A.G.C. CONTROL	AM-SWITCH IN "NARROW" POSITION.  "MODE" SWITCH IN "MON. AM" POSITION	MODULATED GENERATOR	1000KC 100% MODULATED WITH 400CPS	AM-ANTENNA TERMINALS	THRU 50MMFD. CAP. GEN. OUTPUT: VARIABLE	DISTORTION ANALYZER	"STEREO" MON. OUTPUT JACK		READINGS OF AUDIO OUTPUT CORRESPONDING TO GEN. OUTPUTS OF 10UV AND 100KV IS A MEASURE OF A.G.C. CONTROL.	10DB OR LESS.

FM-SWITCH IN TUNE POSITION					AM			MR66	4		
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			Signal Generator	Frequency	connected to		Measured with	connected to	Adjust		
9	"OVERALL" DISTORTION AND HUM	AM-SWITCH IN "NARROW" POSITION "MODE" SWITCH IN "MON. AM" POSITION	MODULATED GENERATOR	1000KC 100% MODULATED WITH 400cps	AM-ANTENNA TERMINALS	THRU 50MMFD. CAP. GEN. OUTPUT: VARIABLE	DISTORTION ANALYZER	"STEREO" MON. AM OUTPUT JACK		MEASURE DISTORTION AT INPUT LEVELS OF 1KV AND 1000KV.  REMOVE MODULATION AT 10KV AND MEASURE HUM.	1KV - 1.5% OR LESS 1000KV - 2.5% OR LESS  50DB OR LESS
10	"OVERALL" FIDELITY	AM-SWITCH IN "NARROW" POSITION "MODE" SWITCH IN "MON. AM" POSITION	EXTERNALLY MODULATED GENERATOR	600KC 1000KC 1500KC 30% MOD.	AM-ANTENNA TERMINALS	THRU 50MMFD. CAP. GENERATOR OUTPUT: 10KV.	DISTORTION ANALYZER	"STEREO" MON. AM OUTPUT JACK		MODULATE GEN. WITH 400cps. TUNE IN "NARROW". SET REFERENCE LEVEL IN "MED II" POSITION, AND INCREASE MODULATING FREQUENCY UNTIL AUDIO OUTPUT IS DOWN 3DB. REPEAT WITH AM-SWITCH IN "BROAD" POSITION.	"MED II"-8 KC OR GREATER "BROAD"-10KC OR GREATER
11	"OVERALL"	AM-SWITCH IN "BROAD" POSITION	MODULATED GENERATOR	600KC 1000KC 1500KC 100% MOD. AT 400cps	AM-ANTENNA TERMINALS	THRU 50MMFD. CAP. GENERATOR OUTPUT: 10KV.	AM-SENS-METER			OBSERVE SENS-METER FOR ADEQUATE RANGE OF DEFLECTION AND CHECK FOR FLATTOP RESPONSE AT 600-1000-1500KC.	