

MODELS 145, 145B

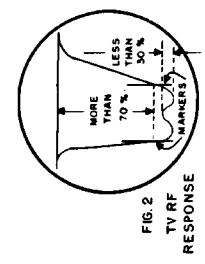
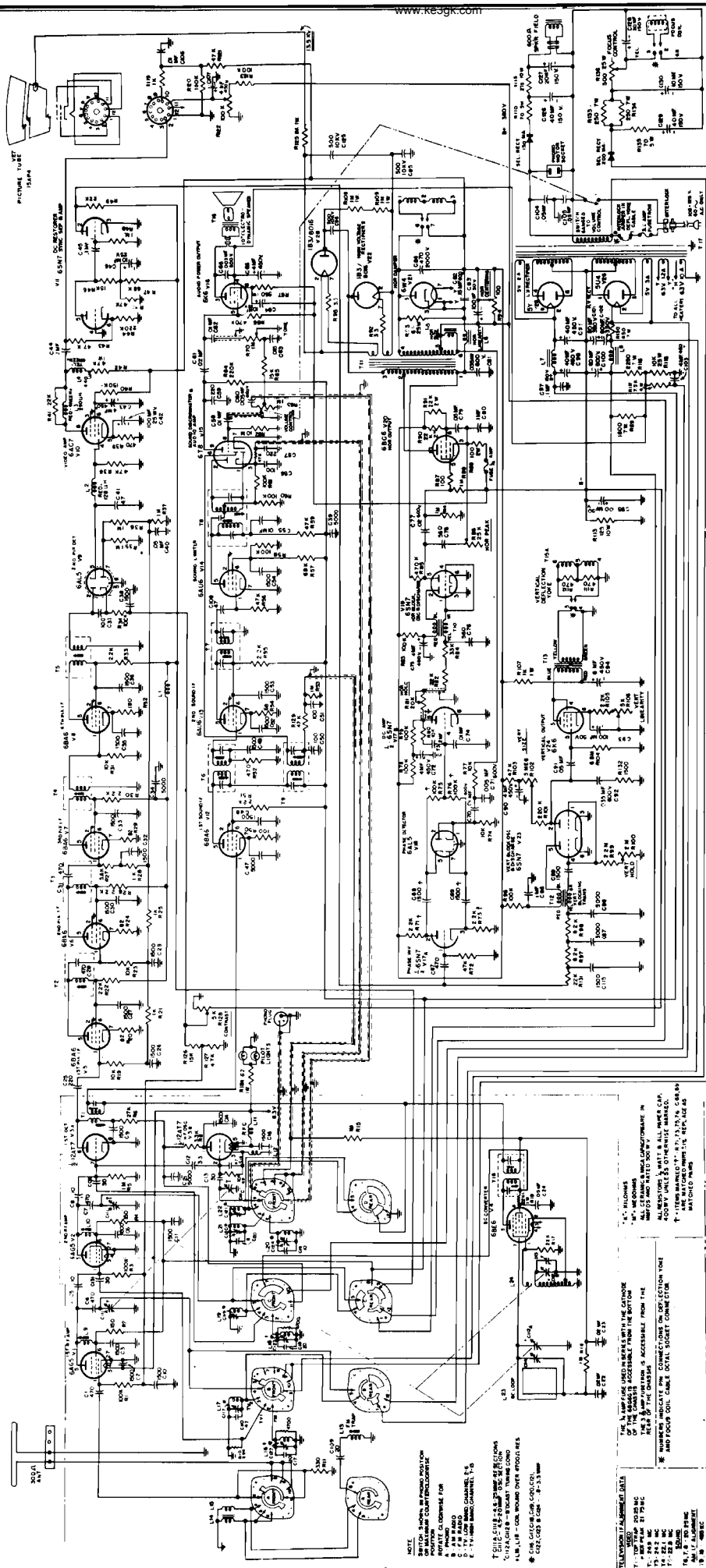


FIG. 1 TV IF RESPONSE

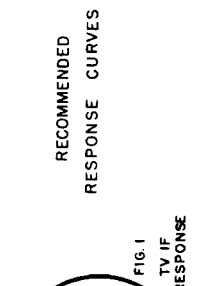


FIG. 2 TV RF RESPONSE

RECOMMENDED RESPONSE CURVES

CIRCUIT ALIGNED	STEP	SELECTOR SWITCH	CHANNEL	SIGNAL GENERATOR CONNECTIONS	FREQ	CONNECT	ADJUST	METER INDICATION	REMARKS
TV SOUND	1								FOLLOW PROCEDURE FOR FM IF DISCRIMINATOR ADJUSTMENT. STEPS 2,3 & 4 AS SHOWN ON AM FM ALIGNMENT CHART.
	2	TV	8	ACROSS PIN 7 OF A GND CONN (R3)	22.4 MC	A1 ACROSS 4.7K LOAD RES. (R3B)	T5	MAX. DEFL.	
	3	"	"	"	27.1 MC	"	T4	"	
	4	"	"	"	24.2 MC	"	T3	"	
TV IF	5	"	"	"	24.9 MC	"	T2	"	
	6	"	"	"	21.75 MC	"	T1 (BOT)	"	VISUAL CHECK DESIRABLE FOR "TOUCH-UP" OF BAND-PASS CIRCUIT. (SEE FIG. 1).
	7	"	"	"	20.5 MC	"	T1 (TOP)	MIN. DEFL.	

AM-FM RECEIVER ALIGNMENT CHART SERIES 145 & 145B

CIRCUIT ALIGNED	STEP	SELECTOR POSITION	Kc/v SET TO	SIGNAL GENERATOR FREQUENCY	METER		COMPONENT ADJUSTED	METER INDICATION	REMARKS
					CONNECTIONS	TYPE			
BC I.F.	1	BC	1850 KC	495 KC 30% MOD.	THRU J1P2 TO 6B5 GRID PIN 41	A C OUTPUT COIL	TOP AND BOTTOM OF T1 B T9	MAXIMUM DEFLECTION	
FM L.F.	2	FM	108.5 MC	80.25 MC UNMOD.	THRU J1P2 THROUGH 8A7T (PIN 7) GROUND.	D C VTVM	FROM LIMITER GRID, PIN 1 OF 6A8A AND T6 & T7	*	
FM DISC.	3	-	-	-	FROM DISC CATHODE, PIN 3 OF 6T8 AND GROUND.	-	TOP OF T8	MAX. DEFLECTION OF EITHER POLARITY	ADJUST FOR ZERO BETWEEN PLUS AND MINUS PEAKS
FM DISC.	4	-	-	-	-	-	BOTTOM OF T8	0 VOLTS	
BC OSC	5	BC	1850 KC	1850 KC 30% MOD.	COUPLED TO ROTOR LOOP TURNS	A C OUTPUT VOICE COIL	C115	MAXIMUM DEFLECTION	
BC RF	6	-	1800 KC	1500 KC 30% MOD.	-	-	C114 LOCATED ON LOOP ANT.	*	
FM OSC	7	FM	88 MC	88 MC UNMOD.	THRU 5H UNMOD. 300 OHM ANT. TO ART. TERMINALS	D C VTVM	L20 LOCATED ON GRID PIN 1 OF 6A8A AND WAFER T5	MAXIMUM DEFLECTION	ADJUSTED BY VARYING TURNS SPLICING REPEAT STEPS 7 & 8 AS NECESSARY
FM OSC.	8	-	808 MC	108 MC UNMOD.	-	-	C124	*	
FM R.F.	9	-	88 MC	88 MC UNMOD.	-	-	L16 & L18 LOCATED ON BANDSWITCH IMPEDERS B & C	*	ADJUSTED BY VARYING TURNS SPLICING
FM R.F.	10	-	88 MC	108 MC UNMOD.	-	-	C122 & C123	*	

TV RF & OSC. ALIGNMENT SERIES 145 & 145B									
PROCEDURE									
1	CONNECT TV SWEEP GENERATOR TO ANTENNA TERMINALS THRU 150 OHM CARBON RESISTOR IN SERIES WITH EACH LEAD.								
2	CONNECT VERTICAL AMPLIFIER OF SCOPE ACROSS MIXER GRID & GROUND (PIN 7 OF 6A7, V.5A1).								
3	CONNECT OSC. V.T.M. ACROSS LIMITER GRID & GROUND (PIN 1 OF 6A8A, V14) FOR OSC. ALIGNMENT ONLY.								
4	TV-1	6	85 MC	85.25 MC	L9 & L10	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	
<p>NOTE: THE FOLLOWING INSTRUCTIONS APPLY TO THE TV AND OSC. ALIGNMENT OF TV HIGH CHANNELS AND FM, AND THESE BANDS MAY REQUIRE RE-ALIGNMENT.</p> <p>HOWEVER, THIS PROCEDURE SHOULD BE ATTEMPTED ONLY WHEN RESULTS OF THE TV AND OSC. ALIGNMENT OF TV LOW CHANNELS MAY ALSO BE OBSERVED, SINCE PLATE BENDING FOR PROPER ALIGNMENT OF TV LOW CHANNELS MAY ALSO BE NECESSARY.</p>									
5	TV-1	5	79 MC	77.25 MC & 81.75 MC	ROTOR PLATES	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	
		4	69 MC	67.25 MC & 71.75 MC	R.F. STAGES	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	
		3	63 MC	60.75 MC & 65.25 MC	R.F. STAGES	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	
		2	57 MC	54.75 MC & 59.25 MC	R.F. STAGES	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	
6	TV-2	7	177 MC	175 MC	L17 & L18	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	
7	TV-2	13	215 MC	212.5 MC & 217.5 MC	C117 & C119	ADJUST FOR APPROX. C R50	ADJUST FOR APPROX. C R50	ADJUST FOR MAXIMUM DEFLECTION ON V.T.V.M.	

\* OSCILLATOR ALIGNMENT MUST BE PERFORMED AT THAT POINT WHERE THE R.F. RESPONSE IS CORRECT FOR THAT PARTICULAR CHANNEL

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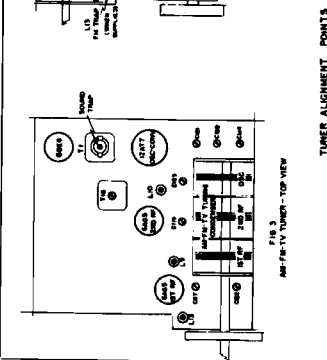
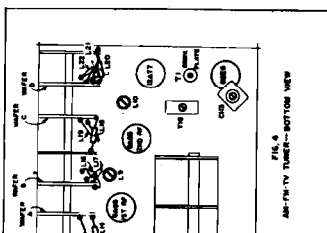
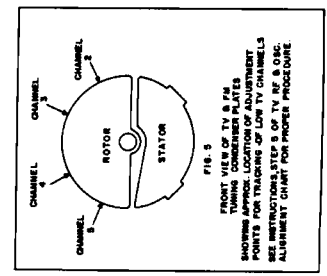
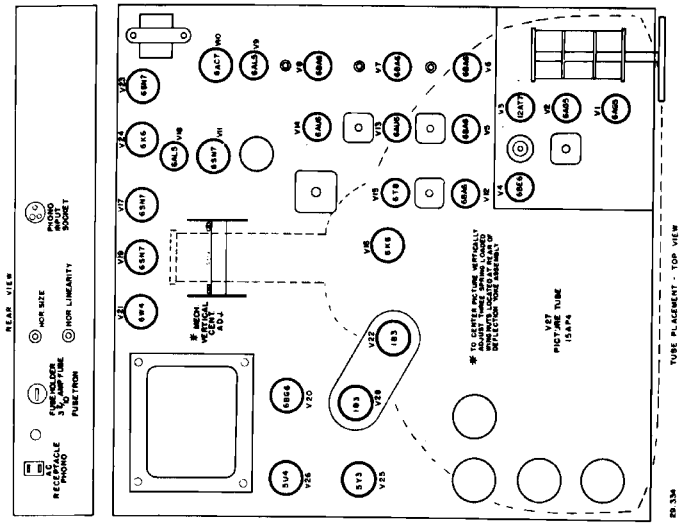


FIG. 3  
FRONT VIEW OF TV & FM  
TUNER SHOWING APPROX. LOCATION OF ADJUSTMENT  
POINTS FOR TRACKING OF LOW TV CHANNELS  
SEE INSTRUCTIONS, STEPS OF TV RF & OSC.  
ALIGNMENT CHART FOR PROPER PROCEDURE

FIG. 4  
AIR-FM TV TUNER—TOP VIEW

FIG. 5  
AIR-FM TV TUNER—BOTTOM VIEW

TUNER ALIGNMENT POINTS