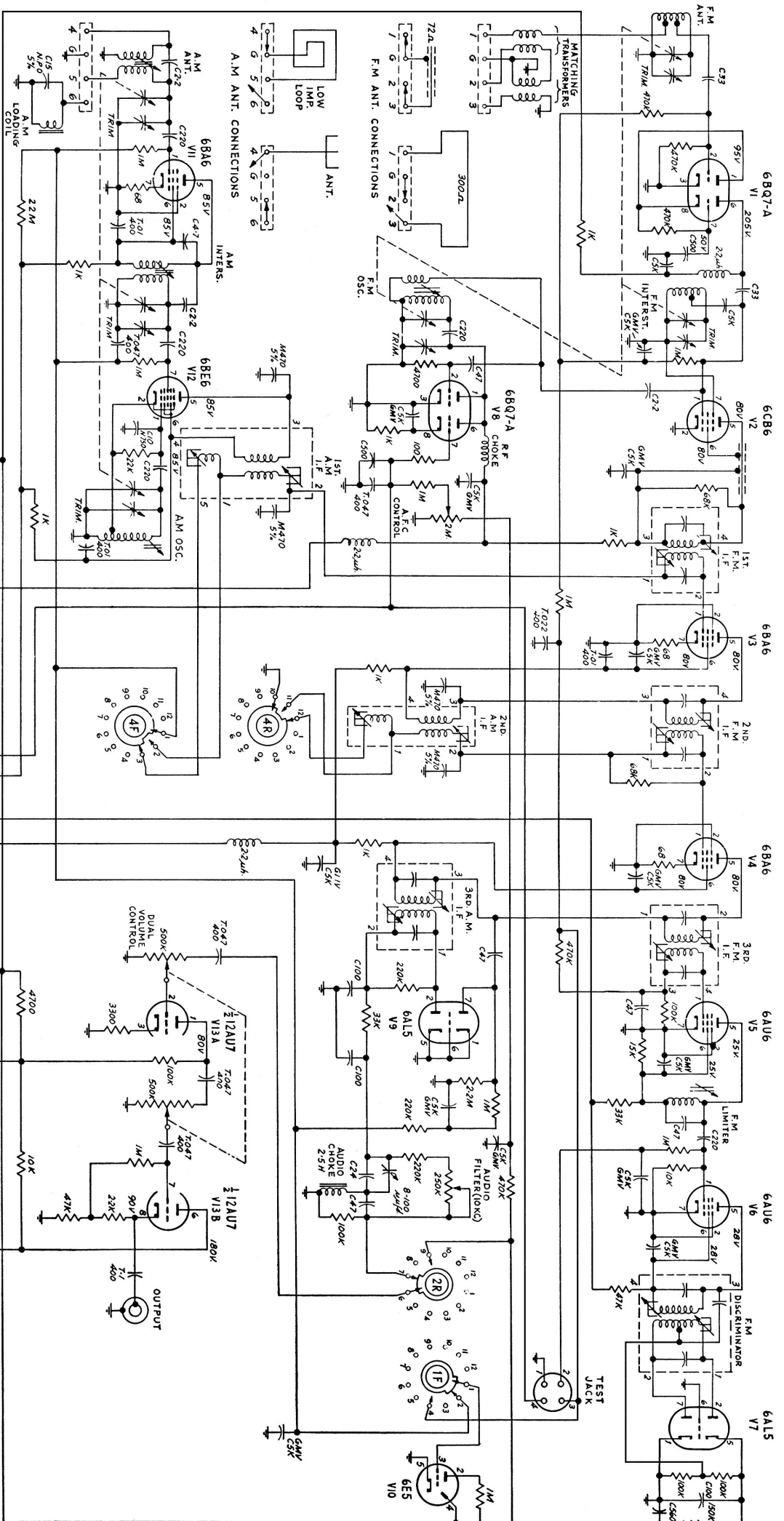




ELECTROHOME CHF142-515 AM FM TUNER

- SWITCH POSITIONS**
1. AM BROAD.
 2. AM SHARP.
 3. FM.
 4. FM - A.F.C.

COMPONENT VALUES

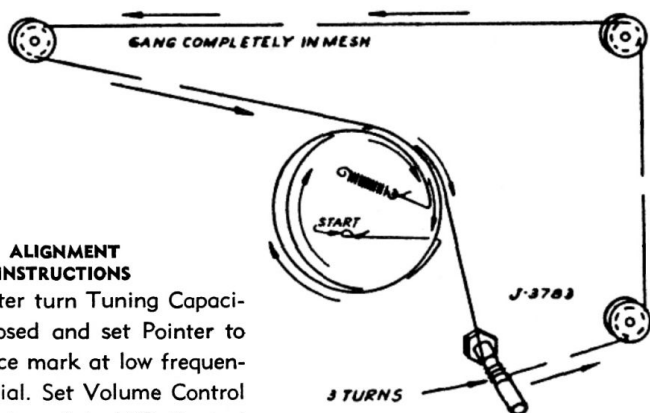
RESISTORS: HALF WATT, UNLESS OTHERWISE NOTED.
10% TOLERANCE UNLESS OTHERWISE NOTED.
K = 1000 OHMS.
M = 1000,000 OHMS.
CONDENSERS: T = TUBULAR, FOLLOWED BY CAP IN MFD AND D.C.V.
E = ELECTROLYTIC, FOLLOWED BY CAP IN MFD & D.C.V.
C = CERAMIC (10%, 500V, UNLESS OTHERWISE NOTED).
M = SILVER MICA 5%, 300V, FOLLOWED BY CAP IN MMFD.

SWITCH SHOWN IN AM BROAD (EXTREME
COUNTER CLOCKWISE) POSITION.

ALL VOLTAGES $\pm 10\%$ MEASURED TO B- WITH
30,000 OHM/100V METER, 117V 60 CYCLE LINE
AND ZERO SIGNAL INPUT.
BAND SWITCH SET AT FM-AFC EXCEPT FOR V9 V11
AND V12, FOR THESE MEASUREMENTS SET BAND
SWITCH TO AM SHARP.

STEP	DUMMY ANTENNA	SIGNAL APPLIED TO	FREQ	MODULATION	BAND SWITCH SETTING	DIAL POINTER SETTING	INDICATING METER	ADJUST	REMARKS	NOMINAL SENSITIVITY
1	.01 ufd	Pin 7 (GRID) V12 (6BE6)	455 K.C.	400 C.P.S. A.M.	A.M. Sharp	1000 K.C. (Approx.)	A.C. Voltmeter to Audio Output	1st, 2nd, 3rd A.M. I.F.'s Top & Bottom	Adjust for Max. Deflection.	25 uvolts Input for .3 Volts Output
2	"	"	"	F.M. at Least 30 K.C. Sweep	A.M. Broad	"	Oscilloscope to Audio Output	3rd A.M. I.F. Bottom	Adjust slightly for Symmetrical Curve observed on Scope. Omit if equipment is not available.	"
3	200 uufd.	Lug 4 Antenna Terminal Strip	1460 K.C.	400 C.P.S. A.M.	A.M. Sharp	1460	A.C. Voltmeter to Audio Output	A.M. Osc. Ant. & Inters. Trimmers	Connect for Ext. Ant. Connect A.M. Ant. Lug 5 to 6. Adjust for Max. Deflection.	
4	"	"	600 K.C.	"	"	600 K.C.	"	A.M. Osc. Ant. & Inters. Coil Slugs	"	
5	Repeat Steps 3 & 4									1 uvolt Input for 1 Volt Output
6	Connect Audio Generator to Pin 2 of V9 (6AL5). Set Generator to exactly 10 K.C. Connect A.C. Voltmeter as in Step 4. Adjust 10 K.C. Audio Filter Condenser for min. reading. Then adjust 10 K.C. Audio Filter Resistance Control for min. reading. Repeat till min. reading is obtained.									
7	None	To Shield of V2 (6CB6) Unground Shield	10.7 M.C.	None	F.M.-AFC Set AFC Control Max. C.W.	Point of no interference	D.C. V.T.V.M. to Pin 3 of Test Jack	1st, 2nd, 3rd F.M. I.F.'s Top & Bottom	Adjust for Max. Deflection	
8	None	"	"	"	"	"	D.C. V.T.V.M. to Pin 2 of Test Jack	F.M. Limiter	"	
9	None	"	"	"	"	"	D.C. V.T.V.M. to Pin 4 of Test Jack	Detune F.M. Discriminator top slightly. Adjust Disc. Bottom	"	
10	None	"	"	"	"	"	"	Adjust F.M. Discriminator Top	Adjust for zero between Pos. & Neg. Reading	
11	Two 120 OHM Carbon Resistor 300 OHM Input	Across Lugs 1 & 3 of F.M. Ant. Terminal Strip with a Resistor in each Lead. Connect Lug 2 to G.	106 M.C.	400 C.P.S. F.M. 22.5 K.C. Deviation	F.M.	106 M.C.	D.C. V.T.V.M. to Pin 3 of Test Jack	F.M. Osc. Trimmer	Adjust for Max. Deflection	
12	"	"	90 M.C.	"	"	90 M.C.	"	F.M. Osc. Coil	"	
13	Repeat Steps 11 & 12									
14	Two 120 OHM Carbon Resistors	Across Lugs 1 & 3 of F.M. Ant. Terminal Strip with a Resistor in each Lead. Connect Lug 2 to G.	106 M.C.	400 C.P.S. F.M. 22.5 K.C. Deviation	F.M.	106 M.C.	D.C. V.T.V.M. to Pin 3 of Test Jack	F.M. Ant. & Interstage Trimmers	Adjust for Max. Deflection	
15	"	"	90 M.C.	"	"	90 M.C.	"	F.M. Ant. & Inters. Coils	Expand or Compress Coils for Max. Deflection.	
16	Repeat Steps 14 & 15									3u Volts for 20 DB Quieting

ELECTROHOME CHF142-515 AM FM TUNER



ALIGNMENT INSTRUCTIONS

To set Pointer turn Tuning Capacitor fully closed and set Pointer to last reference mark at low frequency end of dial. Set Volume Control fully clockwise. Set AFC Control fully clockwise. Use an insulated screwdriver for alignment adjustment. To set Hum Balance Control remove last 6BA6 (V4). Set Selector Switch to F.M. Adjust Hum Balance Control for Min. Hum at Output.

