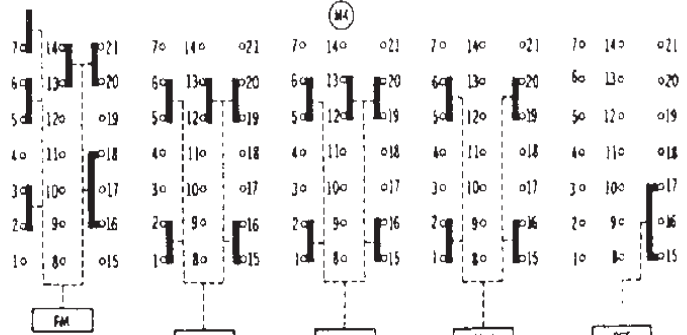


RESISTANCE READINGS

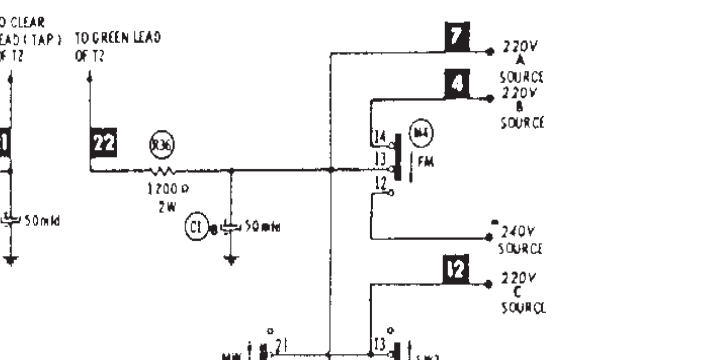
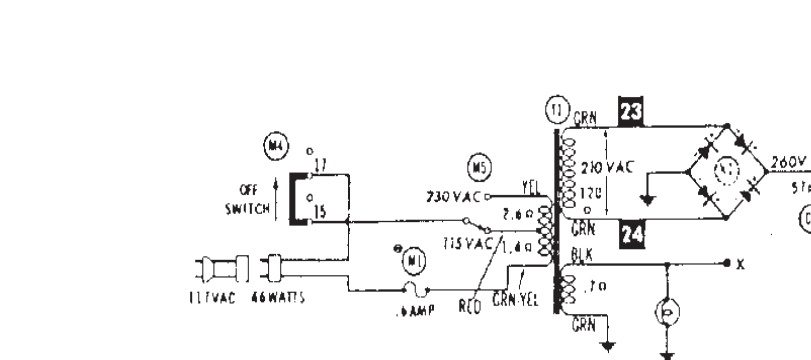
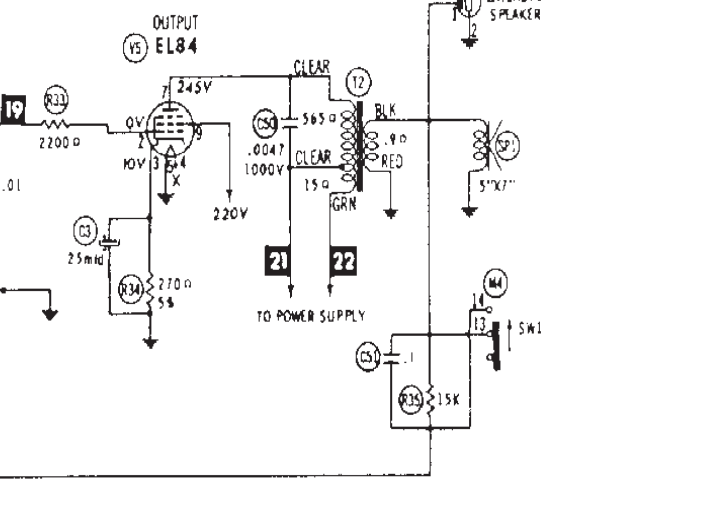
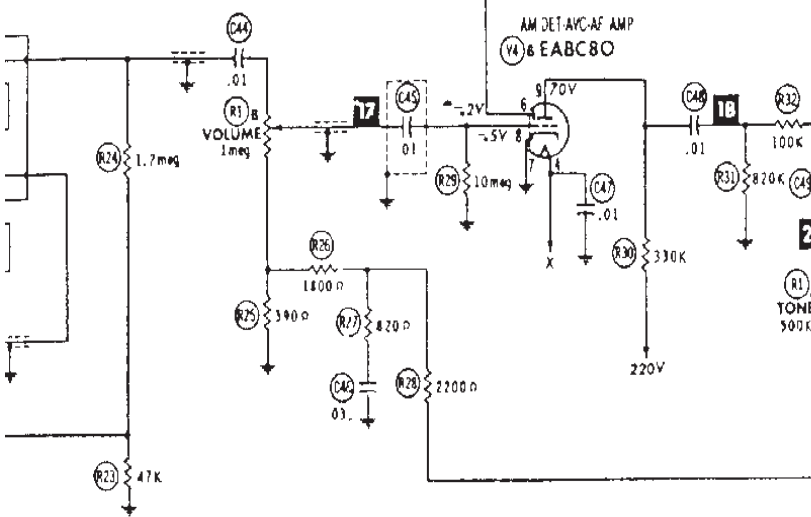
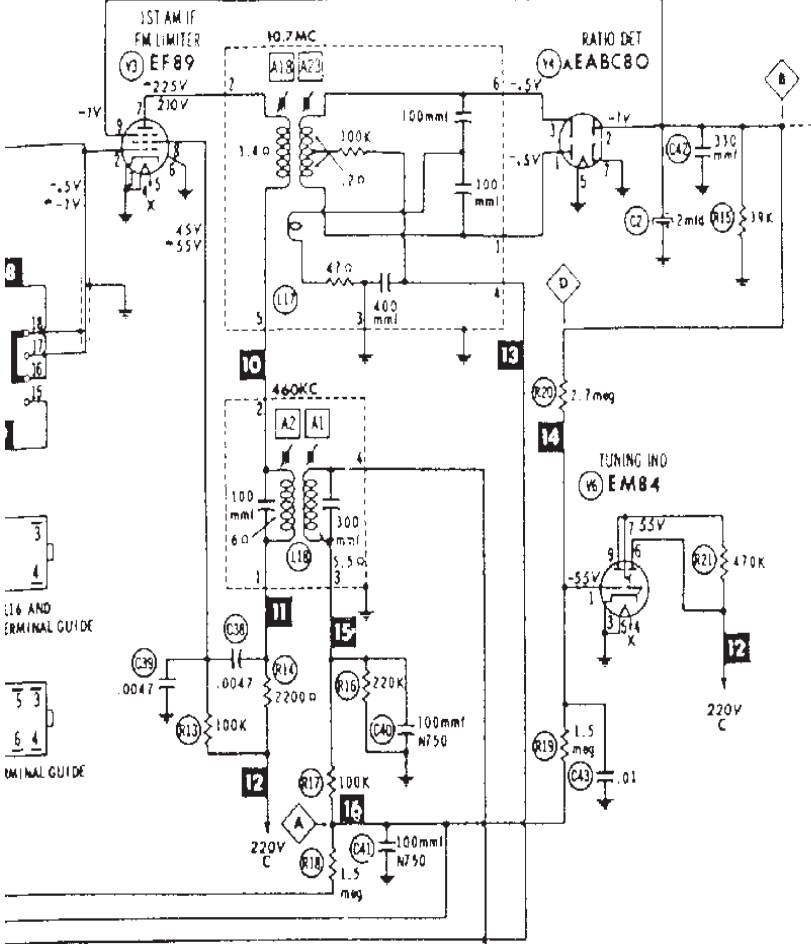
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6CC45	112K	2.2 meg	0 0	FIL	FIL	134K	330K	0 0	0 0
V2	6CH7	157K	2.8 meg	0 0	FIL	FIL	13400 0	33K	134K	33K
V3	6F8	TP	270K	0 0	FIL	FIL	0 0	13400 0	110K	39K
V4	6ABC8	1.5 meg	39K	1.5 meg	FIL	FIL	200K	0 0	10 meg	1330K
V5	6L8	NC	1 meg	270 0	FIL	FIL	NC	1500 0	NC	11200 0
V6	6EM8	1.1 meg	NC	0 0	FIL	FIL	11200 0	1470K	NC	1470K

ALL MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
 * MEASURED FROM OUTPUT OF X1
 † MEASURED IN AM POSITION.
 NC NO CONNECTION
 TP TIE POINT



PUSH BUTTON TERMINAL GUIDE
 FM PUSHBUTTON DEPRESSED

DEPRESSING FM, SW1, SW2, OR MW TURNS SET ON
 FOR TAPE PLAYBACK OR PHONO. DEPRESS MW AND SW2 SIMULTANEOUSLY



TELEFUNKEN MODEL JUBILATE 5161W

AM ALIGNMENT – SELECTOR AS INDICATED

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru .1mfd to pin 7 (grid) AM Mixer, low side to chassis.	460KC (Unmod.)	(AM) Tuning gang fully open.	DC probe of VTVM to point $\diamond A$, common to chassis.	A1, A2, A3, A4	Adjust for maximum.
2.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	600KC	600KC	"	A5, A6	"
3.	"	1500KC	1500KC	"	A7, A8	"
4.	"	460KC	Tuning gang fully open.	"	A9	Adjust for MINIMUM.
5.	"	4MC	(SW2) 4MC	"	A10, A11	Adjust for maximum.
6.	"	8.5MC	8.5MC	"	A12, A13	"
7.	"	10MC	(SW1) 10MC	"	A14, A15	"
8.	"	21.5MC	21.5MC	"	A16, A17	"

FM IF ALIGNMENT USING AM SIGNAL GENERATOR – SELECTOR IN FM POSITION

Connect two matched 100K (+5%) resistors in series from point $\diamond B$ to chassis. The junction of these two resistors is alignment point $\diamond C$ as shown on the schematic.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
9.	High side to ungrounded tube shield over V1, FM Converter, low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe of VTVM to point $\diamond B$, common to chassis.	A18, A19, A20, A21, A22	Adjust for maximum.
10.	"	"	"	DC probe to point $\diamond D$, common to point $\diamond C$.	A23	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

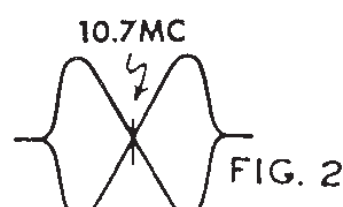
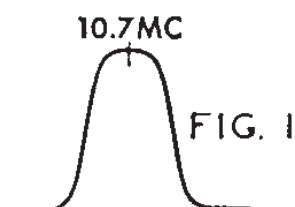
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE – SELECTOR IN FM POSITION

Use frequency modulated signal with 60v modulation and 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
9.	High side to ungrounded tube shield over V1, FM Converter, low side to chassis.	10.7MC (450KC Swp.)	(FM) Point of non-interference.	Vert. input of scope to point $\diamond B$, low side to chassis.	A18, A19, A20, A21, A22	Disconnect stabilizing capacitor C2. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C2.
10.	"	"	"	Vert. input to point $\diamond D$, low side to chassis.	A23	Adjust to place marker at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A18 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT – SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
11.	Across FM antenna terminals with 120 Ω in each lead.	90MC (Unmod.)	(FM) 90MC	DC probe of VTVM to point $\diamond B$, common to chassis.	A24, A25, A28	Adjust for maximum.
12.	"	108MC	108MC	"	A27, A28, A29	"



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Thanks to Georges Pitropakis

FRONT VIEW

FM PULLEY

3 1 2 TURNS
AM TUNING SHAFT
REAR PULLEY

FM TUNING SHAFT
(FRONT PULLEY)

FRONT VIEW

