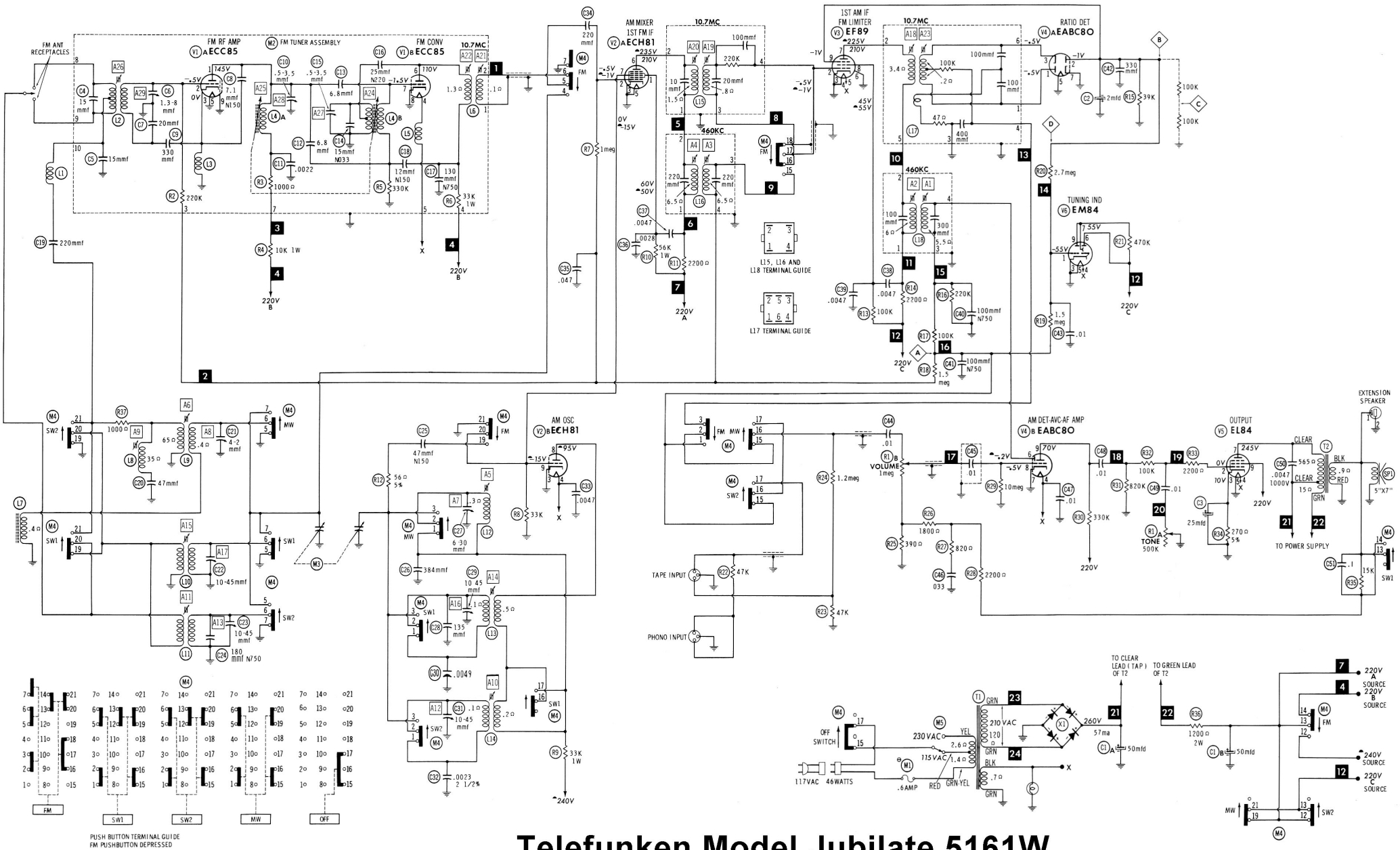
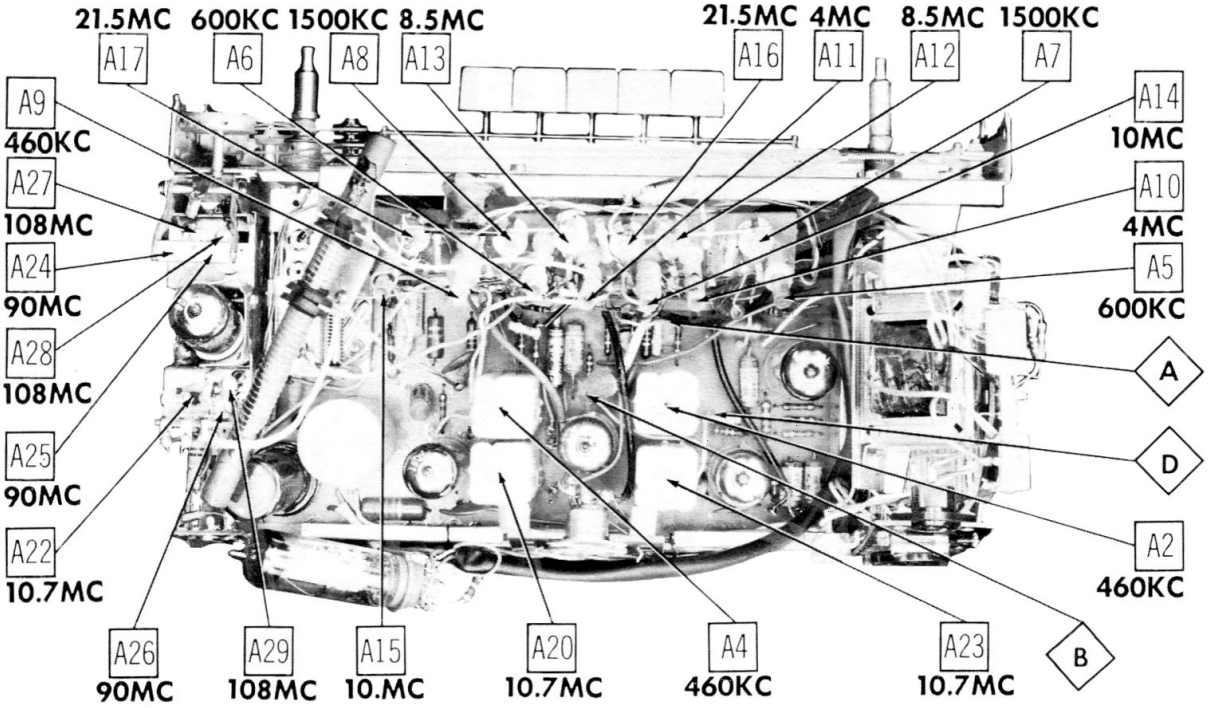
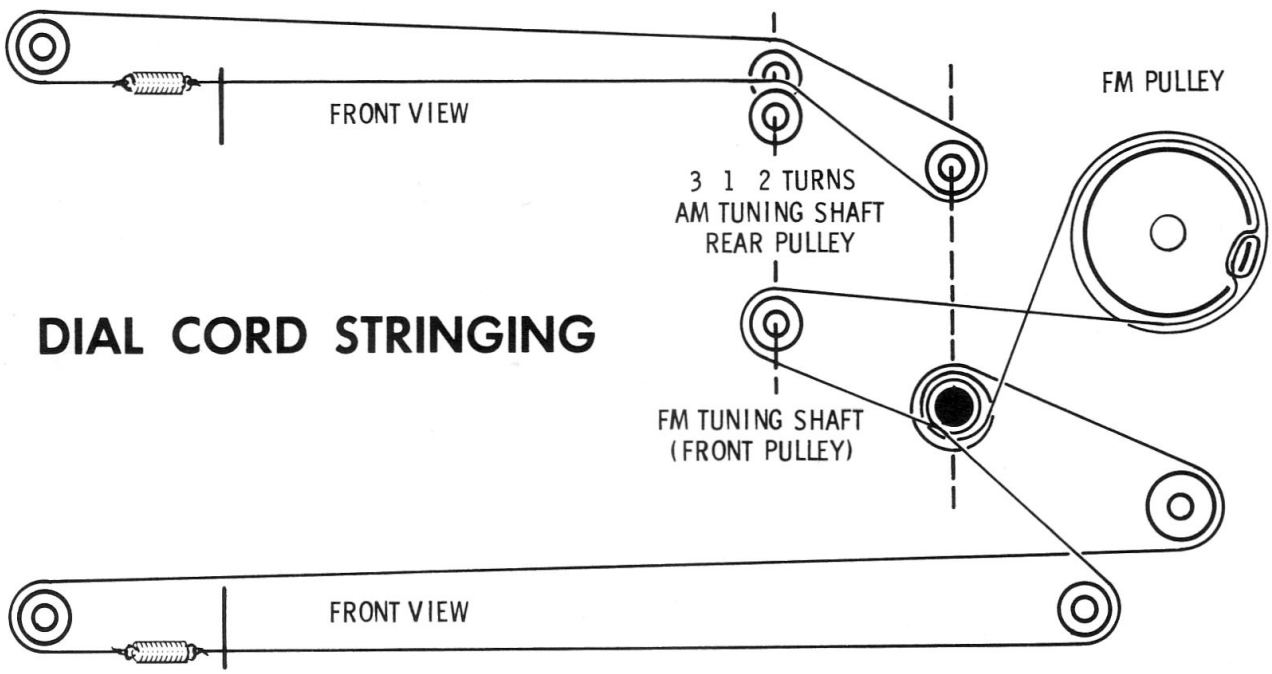


Telefunken Model Jubilate 5161W

Telefunken 5161W "Jubilate"

Dial Cord Stringing Chassis Alignment Layout





DIAL CORD STRINGING

ALIGNMENT INSTRUCTIONS

Use only enough generator output to provide a usable indication.

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 Ⓐ, 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 (±1%) resistors in series from point Ⓑ to chassis. The junction of these two resistors is alignment point Ⓒ 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 Ⓑ, common to chassis.	A18, A19, A20, A21, A22	Adjust for maximum.
10.	"	"	"	DC probe to point Ⓓ, common to point Ⓒ.	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 60∿ modulation and 450KC sweep. Use 120∿ 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 Ⓑ, 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 Ⓓ, 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 120Ω in each lead.	90MC (Unmod.)	(FM) 90MC	DC probe of VTVM to point Ⓑ, common to chassis.	A24, A25, A26	Adjust for maximum.
12.	"	108MC	108MC	"	A27, A28, A29	"

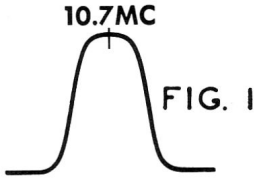


FIG. 1

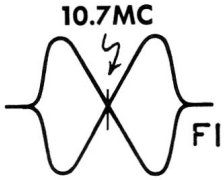


FIG. 2