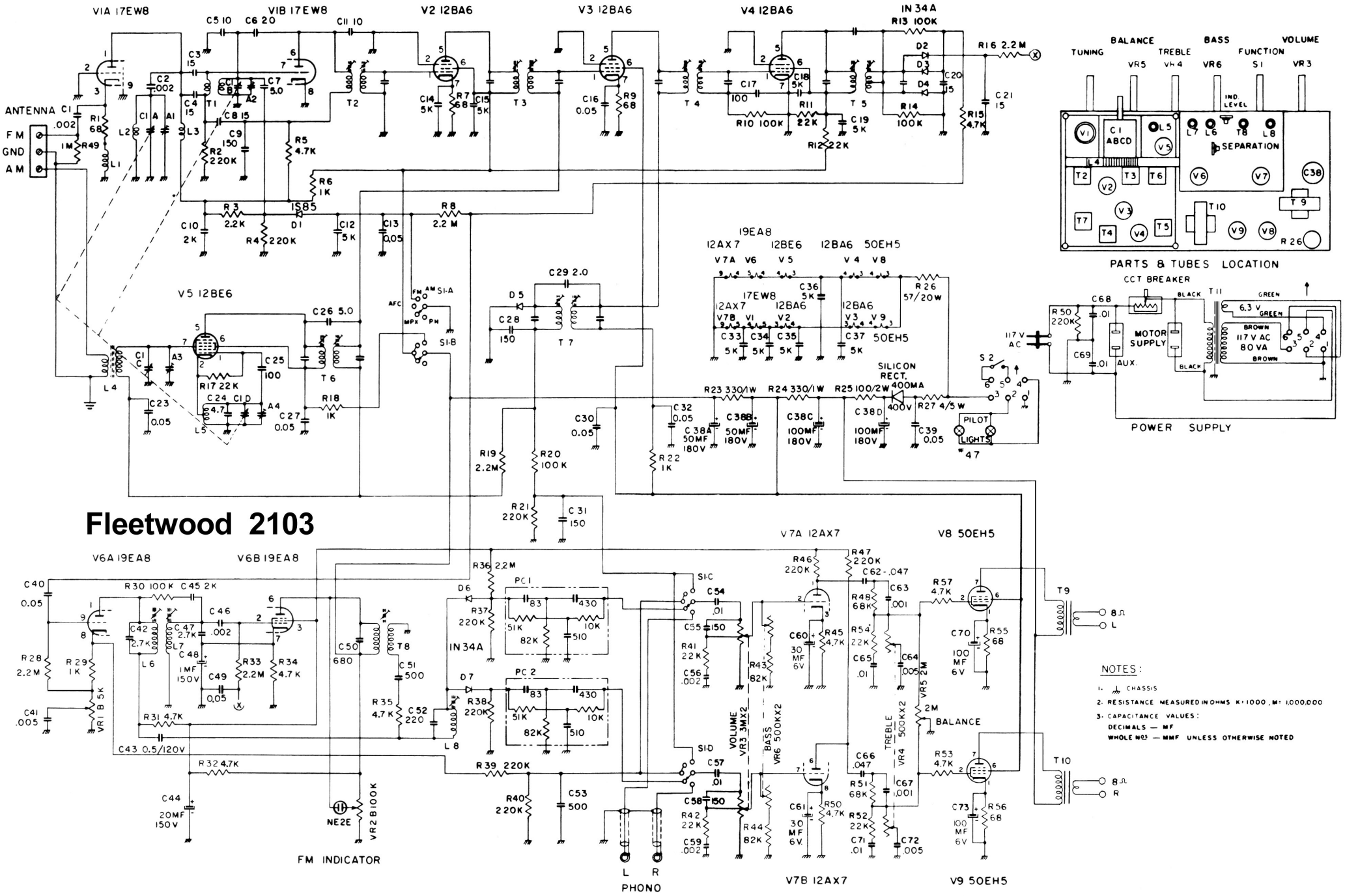
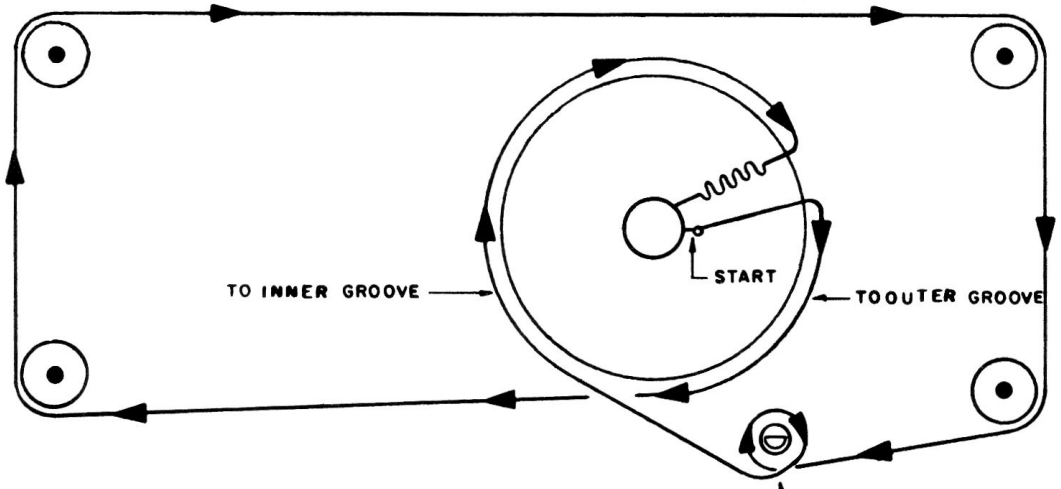
Fleetwood 2103

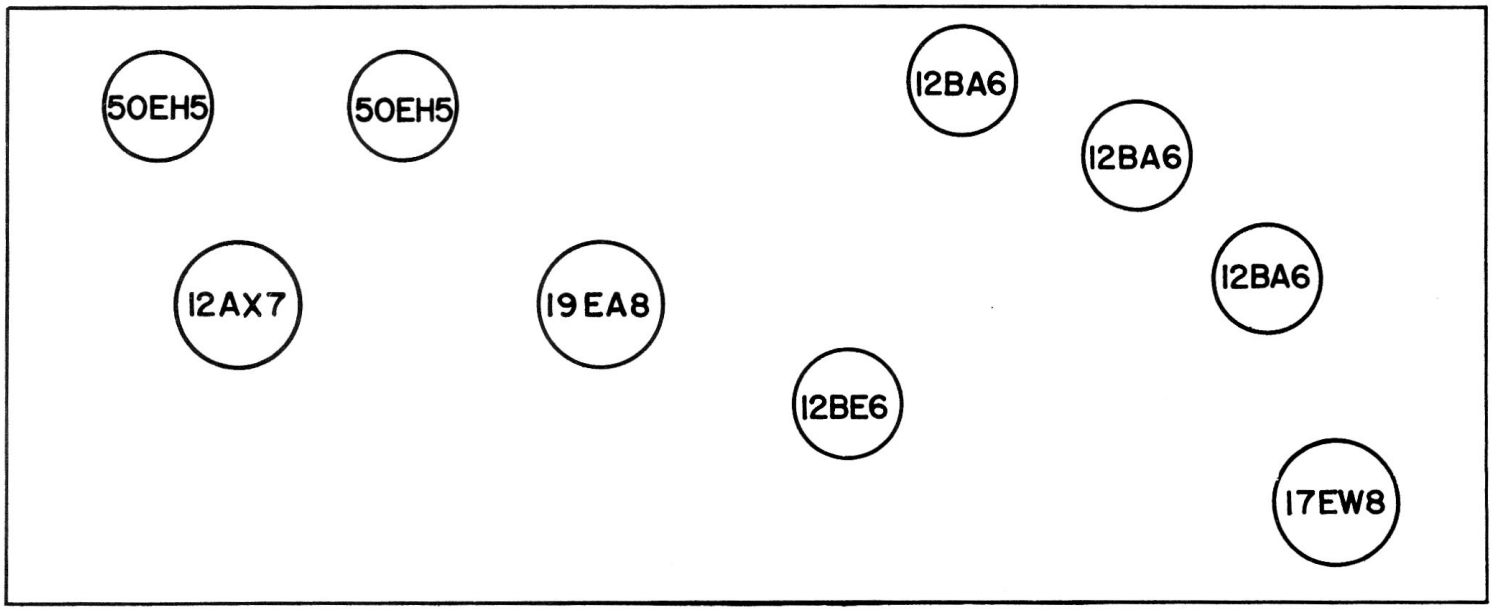


RCC - Fleetwood Supplement 79 Pages 19, 20, 57, 58 - 1967

Fleetwood 2103 Dial Stringing, Tube Layout & Alignment



STRINGING DIAGRAM



TUBE LAYOUT

AM ALIGNMENT PROCEDURE

*Three (3) turns of wire 6" in diameter placed about one foot from receiver antenna loopstick.

The alignment porcedure should be repeated in the original order for greatest accuracy. Always keep the output from the signal generator at its lowest possible value to make the AVC action of the receiver ineffective.
**Check point only — No adjustment.

Position of Variable	Generator Frequency	Dummy Antenna	Generator Connection (high)	Generator Connection Ground Lead	Adjust Trimmer in order shown for Max. Output	Trimmer Function
Open	455 Kc	.05 Mf	C1-C	Chassis	T7, T6	IF
Closed	525 Kc		*Test Loop	Test Loop	L5	Oscillator
Open	1680 Kc		*Test Loop	Test Loop	A4	Oscillator
1400 Kc	1400 Kc		*Test Loop	Test Loop	A3	Antenna
**600 Kc	600 Kc		*Test Loop	Test Loop	Check Point	

FM ALIGNMENT PROCEDURE

FM alignment using Signal Generator and Output Meter, VTVM.

Set Function Switch to FM, Volume Control maximum.

Keep generator output at the lowest level that will maintain a usable output from the set.

Step No.	Dummy	Signal Generator Lead	Signal Generator Frequency	Dial Setting	VTVM or Output Meter	Adjust	Adjust For
1	direct	FM antenna input	10.7 Mc 22.5 Kc Dev.	any	Output meter across speaker	T2 top T3 & T4 bottom T5 bottom only	max.
2	direct	as above	10.7 Mc C.W.	any	VTVM junction R8 & R15 & chassis	T5 top	center
3	300 ohm	as above	100 Mc 22.5 Kc Dev.	100 Mc	Output meter across speaker	A2 Osc. A1 R.F. only if necessary	check sensitivity should be 5uV max. for 25mw output

MULTIPLEX ALIGNMENT PROCEDURE

1. Required equipment: Oscilloscope (low capacity probe), 19 Kc Signal (Crystal controlled), 67.5 Kc Signal.

2. Receiver set to FM-MPX position. Scope and generator returns connect to chassis.

3. Extreme care should be taken during multiplex alignment to insure that adjusted coils are tuned to absolute minimums and maximums as applicable.

4. Only required adjustments (determined by nature of service performed) should be made. Complete realignment should be avoided except when necessary.

Step No.	Input Level to Junction of R15 & R8	Signal Input	Scope Read-Out	Adjustment
1	50 MV	19 Kc	junction L8 & D6,D7	L6,L7.T9 for maximum
2	as above	67.5 Kc	as above	L8 for minimum
3	as above	19 Kc	as above	turn slug of L6 one quarter turn CCW.
4	volume up	stereo program	adjust balance on mono first then switch to stereo	adjust separation control 1.) adjust indicator level 2.)

NOTE 1.) Do not advance separation control too far, it may impair bass response.

NOTE 2.) Adjust so that indicator light just glows on weak signal.