FLEETWOOD GRUNDIG 825W

ALIGNMENT OF CHASSIS MODEL # 825W

Preliminary procedure:

1. Connect receiver to 117V. 60 Cy. line.
2. Set the AM (Broadcast Band) to a small marker on the right hand side of AM scale after closing gang condenser.
3. Set the FM band pointer to a small marker on the right hand side of FM scale.
4. Set the volume control to maximum, Bass and Treble controls to maximum boost. Depress tone compensation push-button marked ORCHESTRA.
5. Connect output indicator to external loudspeaker terminals located at rear of chassis. Caution: In case the loudspeakers were disconnected, terminate the output with a wire-wound 3.2 ohm /10 watt resistor.
6. Connect return of signal generator to ground terminal located below AM antenna terminal.
7. Disconnect built-in FM antenna.

AM- IF ALIGNMENT

As a rule the realignment of IF transformers should be avoided. In case where it is necessary to realign the IF transformers, proceed as follows:

Tune slugs in following sequence: 1-2-3-4 for maximum output (see alignment chart).

FM- IF ALIGNMENT

Feed 10.7 MC unmodulated signal. Detune discriminator by turning slug # 14 out (approximately 3 turns) and tune slugs # 15, 16, 17, 18, 19 in BV 731 and in FM tuner.

Tune Ratio Detector slug # 14 to "Zero" indication.

FM TUNER ALIGNMENT

Set FM pointer to small right hand side marker on the FM scale (see of this setting coincides with FM tuner mechanical position.)

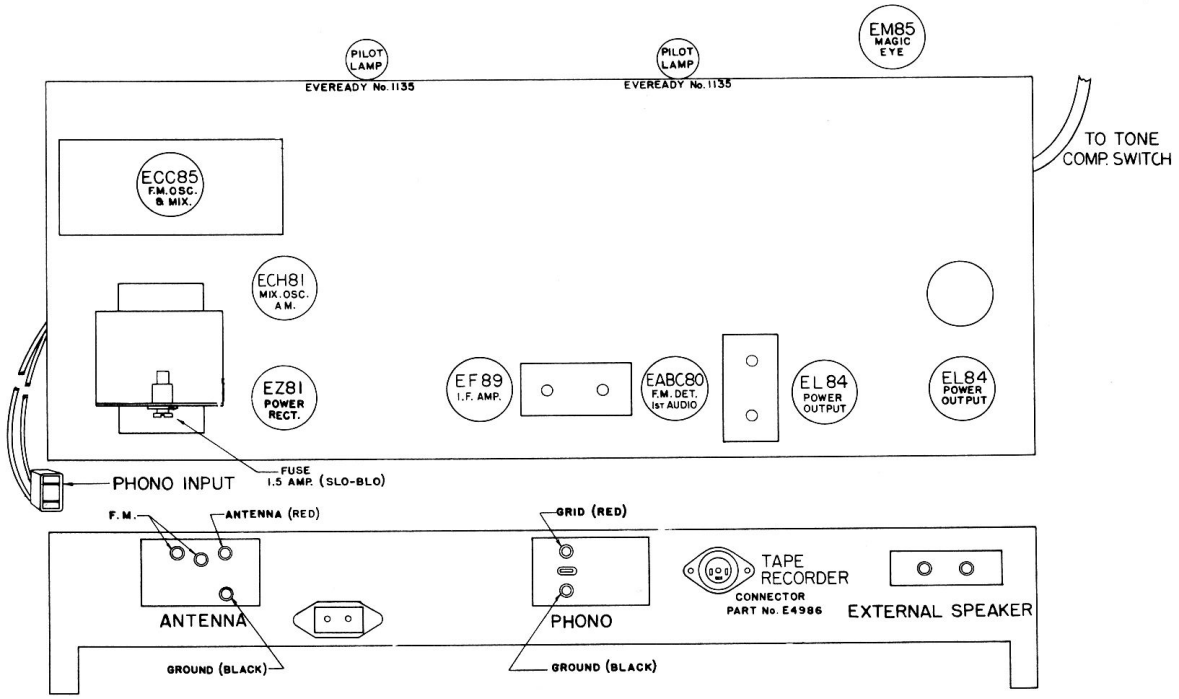
Tune receiver to 94 MC.

Feed 94 MC signal, unmodulated (see chart).

Connect VTVM parallel to electrolytic condenser, C 406. Adjust trimmers C 20 and C 21 and C 23 for maximum output.

Following this, adjust C 21 and C22 as follows: Adjust C 22 while disconnecting B+ from R 191 for minimum and C 21 for maximum with B+ reconnected. Repeat those two steps till no improvement is obtained.

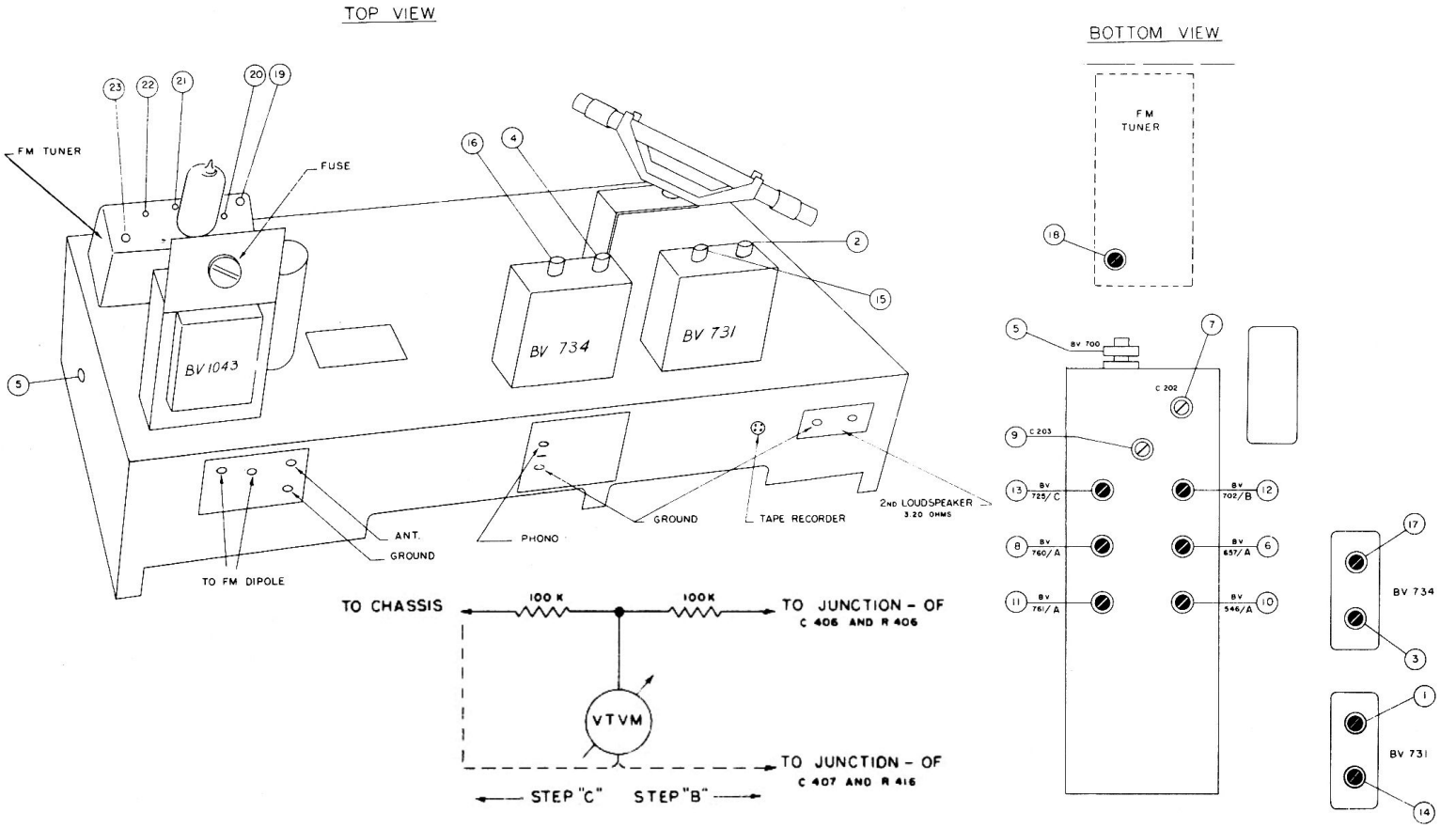
Note: Keep signal generator output at minimum.



Tube Layout

TUBE REPLACEMENT

EUROPEAN TUBE	AMERICAN OR EQUIVALENT ROGERS or PHILLIPS
ECC 85	6AQ8
ECH 81	6AJ8
EF 89	6DA6
EABC 80	6AK8
EL 84	6BQ5
EZ 81	6CA4



	Signal Gen. Connection	Modulation	Band Selector	Set: Signal Gen.	Set: Receiver	Detune	Tune	Position	Tune For	See Instr. Below
AM	Trough .005 μFd to grid # 1 ECH 81 tube	30% AM	AM	472KC	1,000 KC	-	Slug # 1 in BV 731	Bottom	Maximum	"A"
							Slug # 2 in BV 731	Top		
							Slug # 1 in BV 734	Bottom		
							Slug # 2 in BV 734	Top		
	Trough Dummy Ant. to Antenna & Ground terminal (AM Ant.)			472KC	520 KC	-	Slug # 5 in BV 700	Side	Minimum	
				520KC	520 KC	-	Slug # 6 in BV 657	Bottom	Maximum	
				1600KC	1600 KC		Trimmer 7 (C208)	Bottom		
				560KC	560 KC		Slug # 8 in BV 760	Top		
				1600KC	1600 KC		Trimmer # 9 (C203)	Bottom		
			LW	150KC	150 KC	-	Slug # 10 in BV 596	Bottom		
				200KC	200 KC		Slug # 1 in BV 761	Top		
			SW	6 MC	6 MC	SW-Band-spread to "0" position	Slug # 12 in BV 702	Bottom		
				7 MC	7 MC		Slug # 13 in BV 725	Bottom		
FM	Trough capacitve coupling to ECC 85 tube	Unmodulated.	FM	10.7 MC	100 MC	in BV731	Slug # 14	Bottom	3 Turns out	"C"
							Slug # 15 in BV 731	Top	Maximum	
							Slug # 16 in BV 734	Top		
							Slug # 17 in BV 734	Bottom		
							Slug # 18 in FM tuner	Bottom		
							Slug # 19 in FM tuner	Top		
						-	Slug # 14 in BV 731	Bottom	"Zero" reading	B
	To FM ant. terminals 300 Ω	Unmodulated	FM	94 MC	94 MC		Trimmer 20	Top	Maximum	C
						Repeat	Trimmer 21 In	Top		
							Trimmer 22 FM	Top	Minimum	D
							Trimmer 23 tuner	Top	Maximum	C

Alignment Chart No. 1 Fig. 1

INSTRUCTIONS

"A" - AC-DC voltmeter, 1.5 V scale connected to External Loudspeaker terminals. On FM band switch off Ferrite loop antenna.
"B" - Connect VTVM (or 20,000 Ω/v VM) to centre junction of 2 x 100 K Ω Resistors. (See Diagram)
"C" - Connect VTVM to R 407 (40K)
"D" - Same as "C". Only disconnect B+ from R 191. Increase Sig. gen. output.

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