

FLEETWOOD GRUNDIG 825W

ALIGNMENT OF CHASSIS MODEL # 825W

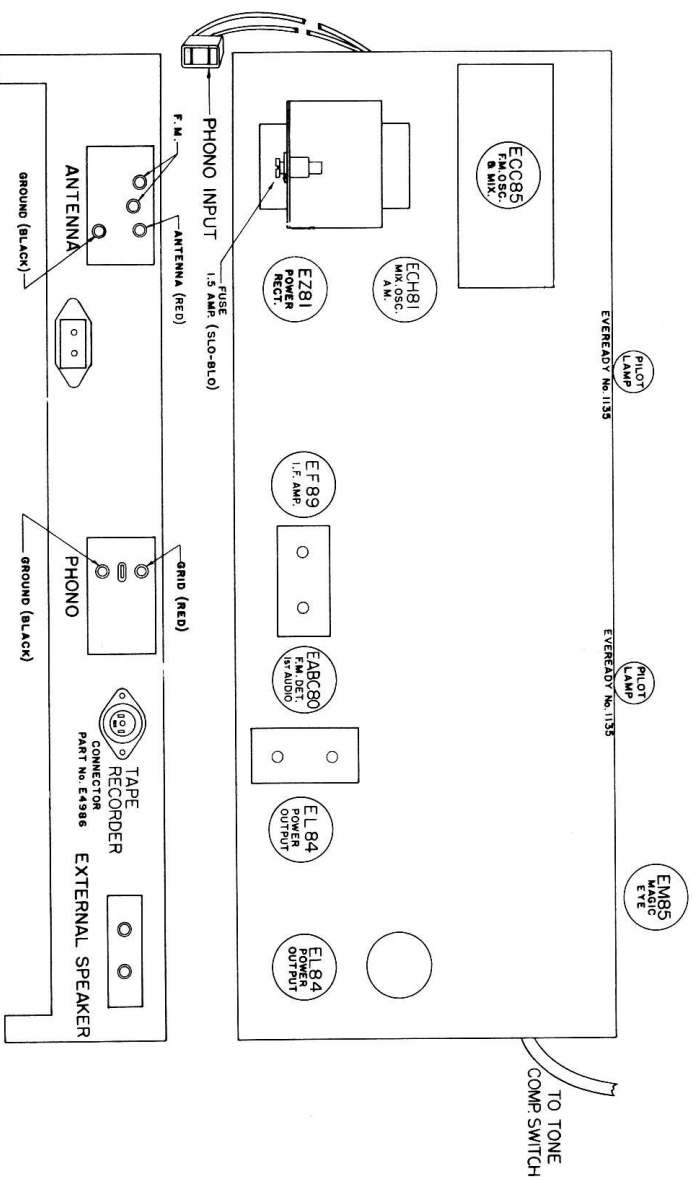
Preliminary procedure:

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.
5. Depress tone compensation push-button marked ORCHESTRA.
6. 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.
7. Connect return of signal generator to ground terminal located below AM antenna terminal.
8. 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 BY 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.

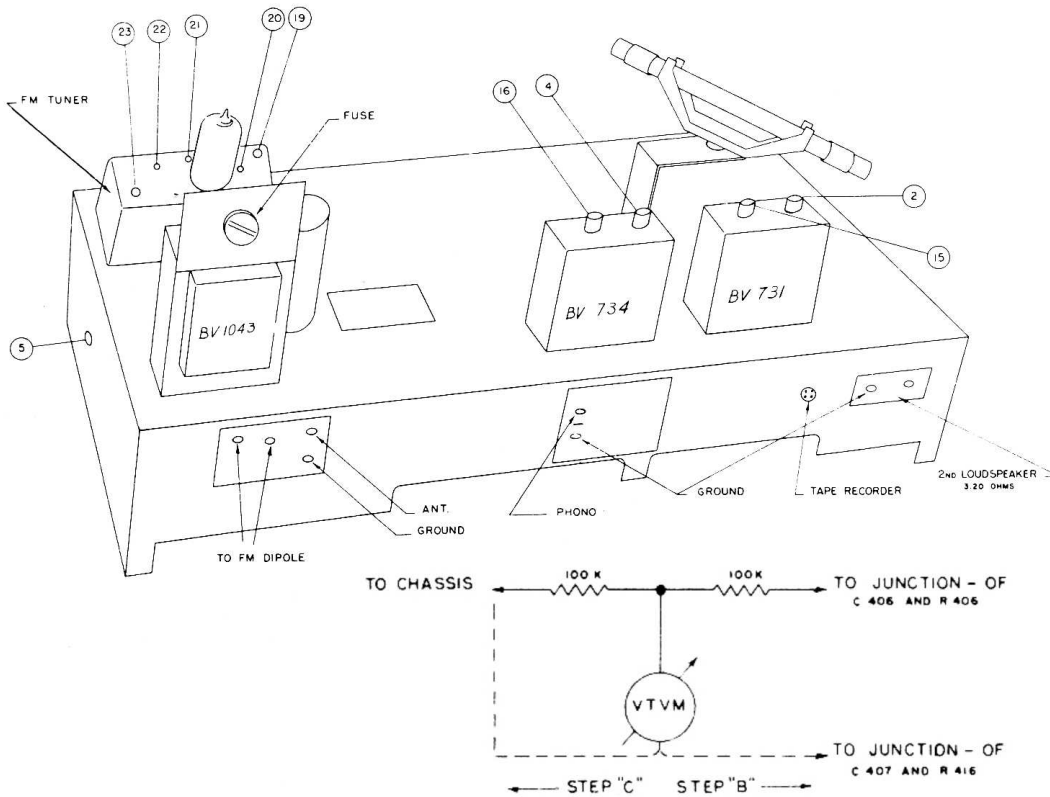
Note: Keep signal generator output at minimum.

TUBE REPLACEMENT

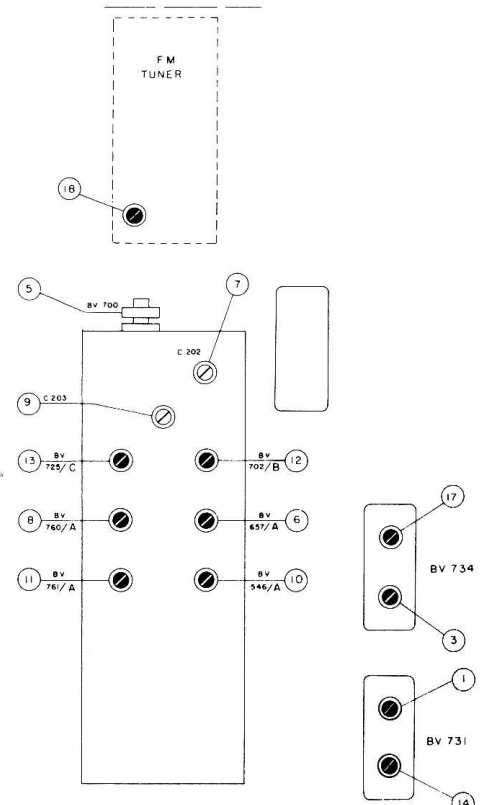
EUROPEAN TUBE	AMERICAN OR EQUIVALENT ROGERS or PHILIPS
ECC 85	6AQ8
ECH 81	6AJ8
EF 89	6DA6
EABC 80	6AK8
EL 84	6BQ5
EZ 81	6CA4

Tube Layout

TOP VIEW



BOTTOM VIEW



	Signal Gen. Connection	Modulation	Band Selector	Set		Detune	Tune	Position	Tune For	See Instr. Below
				Signal Gen.	Receiver					
AM	Trough .005 μ Fd to grid # 1 ECH 81 tube	30% AM	AM	472KC	1,000 KC	-	Slug # 1 in BV 731 Slug # 2 in BV 731 Slug # 1 in BV 734 Slug # 2 in BV 734	Bottom Top Bottom Top	Maximum	"A"
				472KC	520 KC	-	Slug # 5 in BV 700	Side		
	Trough Dummy Ant. to Antenna & Ground terminal (AM Ant.)			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 capacitive 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		
							Slug # 16 in BV 734	Top		
						Slug # 17 in BV 734	Bottom			
						Slug # 18 in FM tuner	Bottom			
						Slug # 19 in FM tuner	Top			
To FM ant. terminals 300 Ω	Unmodulated	FM	94 MC	94 MC	Repeat	Slug # 14 in BV 731	Bottom	"Zero" reading		
						Trimmer 20	Top			
						Trimmer 21 In	Top			
			Trimmer 22 FM	Top						
			Trimmer 23 tuner	Top						
					Maximum	C				
					Minimum	D				
					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.

FLEETWOOD GRUNDIG 825W (USED ON MANY MODELS)

