

IMPORTANT. This Receiver uses BRIMAR valves and was specifically designed round them. Its performance will be impaired unless BRIMAR valves of the correct types are used when replacements are needed.

REMOVAL OF CHASSIS.

REMOVE: Knobs, two L.S. clips on baffle, and four chassis bolts. The chassis may then be slid out of cabinet.

● For general information refer to Instruction Book and Instruction Card.

ALIGNMENT CHART FOR 830

*Operations MUST be carried out in the order indicated.

*Operation	Alignment of	Connect Signal Gen. to	Inject Signal via	Adjust Input Signal to	Set Wave Band Switch	Set Tuning Pointer to	To be adjusted for maximum output
1	I.F.	Grid of 20D2	.1mfd.	464kcs	M.W.	580m	Cores of L9, L10, L11, L12.
2	M.W.	Aer 1	Standard Dummy Aerial	600kcs	M.W.	500m	Core of L7 (M. W. Tracker)
3	"	"	"	1,400kcs	"	214m spot	Trimmers, T5 & T2
4	"	Repeat		Operation		No. 2	Rock Tuning Condenser slightly while adjusting, for max. gain
5	"	Repeat		Operation		No. 3	Trimmers, T5 & T2
6	L.W.	Aer 1	"	175kcs	L.W.	1,714m spot	Core of L8 (L.W. Tracker)
7	"	"	"	350kcs	"	857m	Trimmers, T6 & T3
8	"	Repeat		Operation		No. 6	Rock Tuning Condenser slightly, for max. gain
9	"	Repeat		Operation		No. 7	Trimmers, T6 & T3
10	S.W.	Aer 1	400Ω	15Mcs	S.W.	20m	" T4 & T1

ALL ON COIL UNIT

VOLTAGE CHART KB 830

Line Voltage 230v. A.C. in 225v. tap.
Aerial & Earth Disconnected

Band Switch—M.W.

Volume Control Full On
Readings + or - 10%

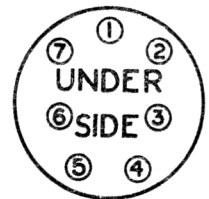
Contacts numbered as diagram below.

Valve	Function	Volts measured between SOCKET and CHASSIS.							
		1	2	3	4	5	6	7	TOP CAP
20D2	Frequency Changer	58	—4½	69	*12.5	0	2.1	280	0
9D2	Pent. I.F. amp.		280	2.5	0	*12.5	2.5	69	0
11D5	2nd det, AVC & LF	0		0	0	*12.5	1.6	105	0
7D5	Output Pent.		0	280	0	*12.5	18	290	
R2	Rectifier								

Anodes=324v. A.C.

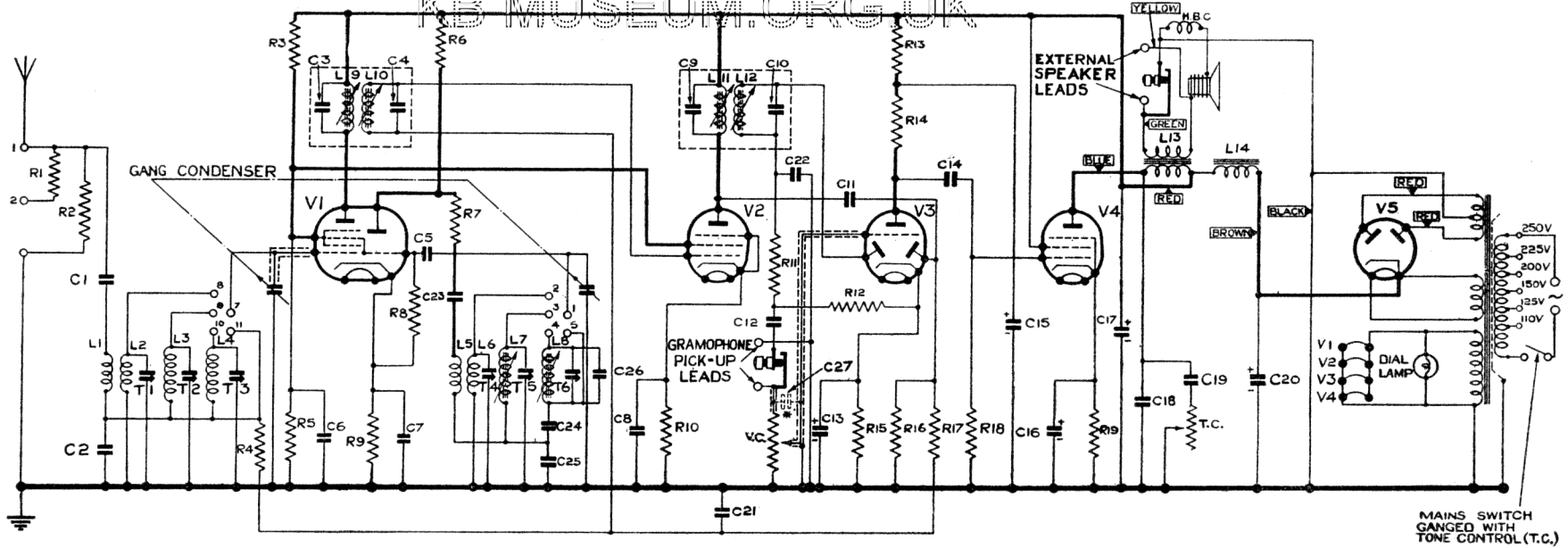
Heaters=370v.

Voltage across Output Transformer	...	L13	9.5 volts
" " Field Coil	...	L14	85 "
Current through " "	...		74 mA
" " Mains Transformer Primary	...		310 mA. A.C.
Total Consumption	...		72 watts



*Asterisk indicates A.C. voltages measured on Rectifier-type meter.

All D.C. voltages measured on 1000 ohm per volt meter.



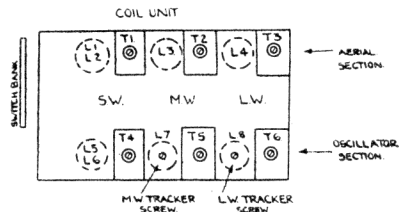
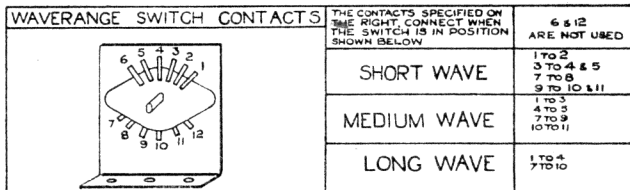
- R1. = 10,000 Ω
- R2. = 2,000 Ω
- R3. = 20,000 Ω 2 watt
- R4. = 500,000 Ω
- R5. = 25,000 Ω 1 watt
- R6. = 50,000 Ω 1 watt
- R7. = 150 Ω
- R8. = 50,000 Ω
- R9. = 300 Ω
- R10. = 300 Ω

- R11. = 50,000 Ω
- R12. = 500,000 Ω
- R13. = 50,000 Ω
- R14. = 150,000 Ω
- R15. = 7,000 Ω
- R16. = 500,000 Ω
- R17. = 500,000 Ω
- R18. = 500,000 Ω
- R19. = 400 Ω 1 watt
- V.C. = 500,000 Ω
- T.C. = 50,000 Ω

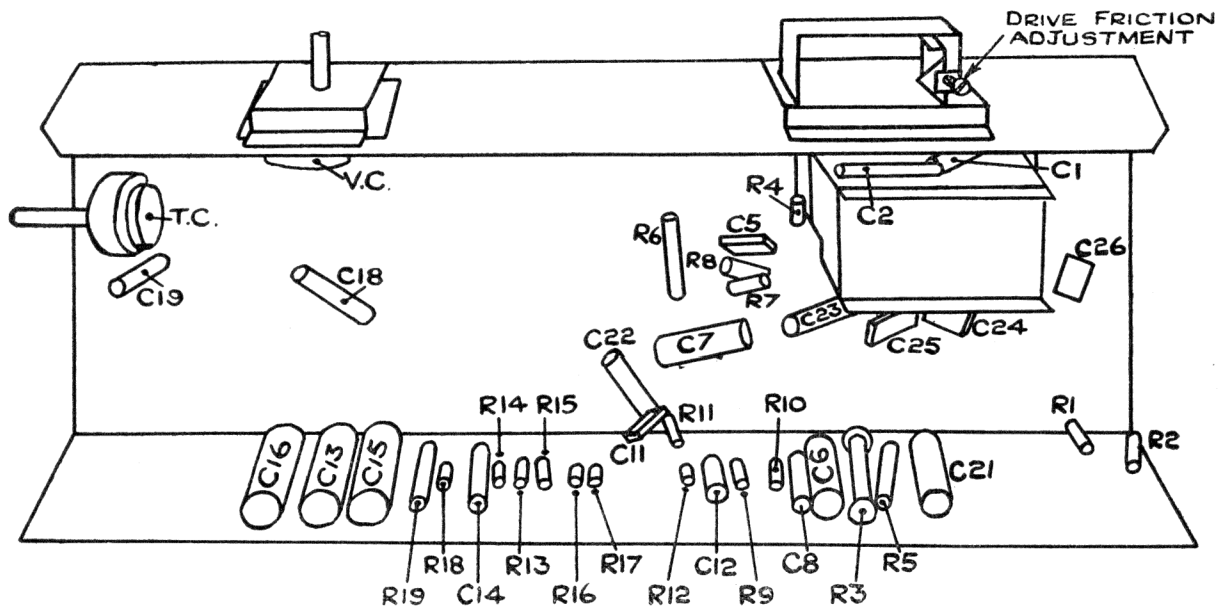
- C1. = .005μF
- C2. = .004μF
- C3. = 150μμF
- C4. = 150μμF
- C5. = .00005μF (Mica)
- C6. = .1μF
- C7. = .1μF
- C8. = .02μF
- C9. = 150μμF
- C10. = 280μμF
- C11. = .000025μF
- C12. = .005μF
- C13. = 25μF (Elect)
- C14. = -.02μF

- C15. = 2μF (Elect)
- C16. = 25μF (Elect)
- C17. = 16μF (Elect)
- C18. = .001μF (450 v.)
- C19. = .03μF (450 v.)
- C20. = 16μF (Elect)
- C21. = .1μF
- C22. = .0005μF
- C23. = .001μF
- C24. = 230μμF
- C25. = 400μμF
- C26. = 25μμFs
- C27. = not used on 830—refer to 831 manual

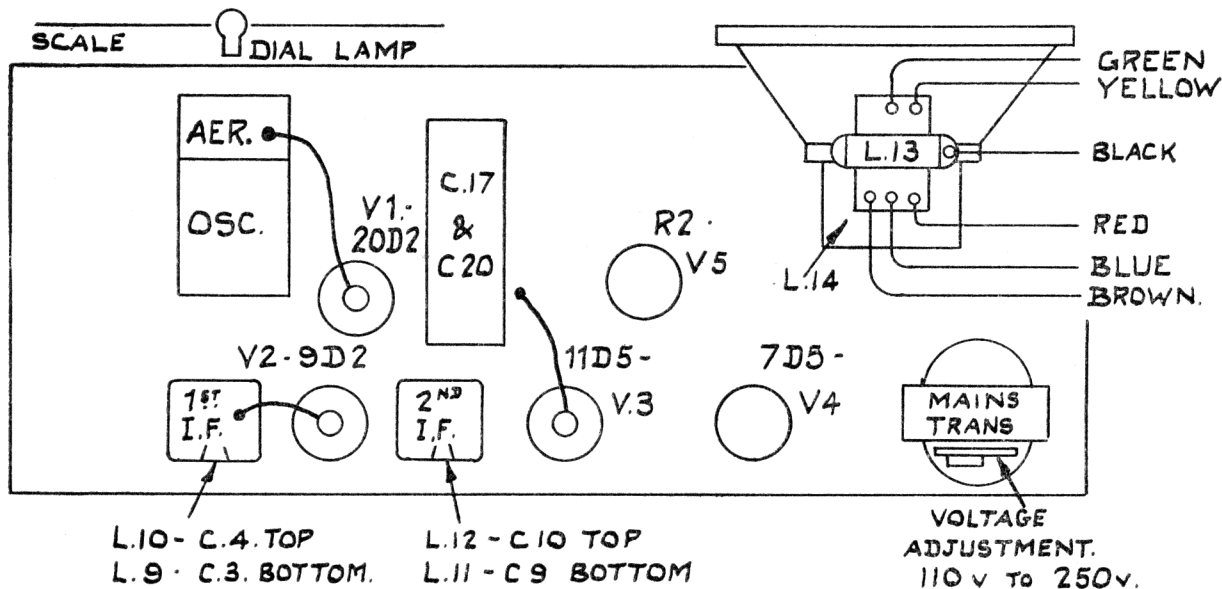
- Pilot lamp, 12—16 volt .3 amp.
- L1. = Aerial S.W. Pri.
- L2. = Aerial S.W. Sec.
- L3. = Aerial M.W. Sec.
- L4. = Aerial L.W. Sec.
- L5. = Oscil: S.W. React.
- L6. = Oscil: S.W. Sec.
- L7. = Oscil: M.W. Sec.
- L8. = Oscil: L.W. Sec.
- L9. = } I.F. Pris.
- L11. = }
- L10. = } I.F. Secs.
- L12. = }
- L13. = Output Transformer
- L14. = Field 1200 Ω



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UNDER CHASSIS VIEW



TOP VIEW OF CHASSIS AND LOUDSPEAKER CONNECTIONS.



BACK OF CHASSIS

