

IMPORTANT. This Receiver uses International Octal type valves and replacements are therefore readily obtainable in any part of the world. It was however designed primarily round BRIMAR valves and when renewing it is our recommendation that you specify BRIMAR.

REMOVAL OF CHASSIS.

REMOVE: Knobs, metal heat screen, loud speaker plug, 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 835/OAI

*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 6K8G	.1mfd.	464kc	M.W.	570m	Cores of L11, L12, L13, L14.
2	M.W.	Aer 1	Standard Dummy Aerial	600kc	M.W.	500m	Core of L10 (M. W. Tracker)
3	"	"	"	1,400kc	"	214m spot	Trimmers, T6 & T3
4	"	Repeat	Operation	Operation	Operation	No. 2	Rock Tuning Condenser slightly for max. gain
5	"	Repeat	Operation	Operation	Operation	No. 3	Trimmers, T6 & T3
6	S.W.1.	Aer 1	400ohms	6mcs	S.W.1.	50m	" T5 & T2
7	S.W.2.	Aer 1	"	20mcs	S.W.2.	15m	" T4 & T1

} ALL ON COIL UNIT

VOLTAGE CHART KB 835/OAI

Line Voltage 215 A.C.

Aerial & Earth Disconnected

Volume Control Full On

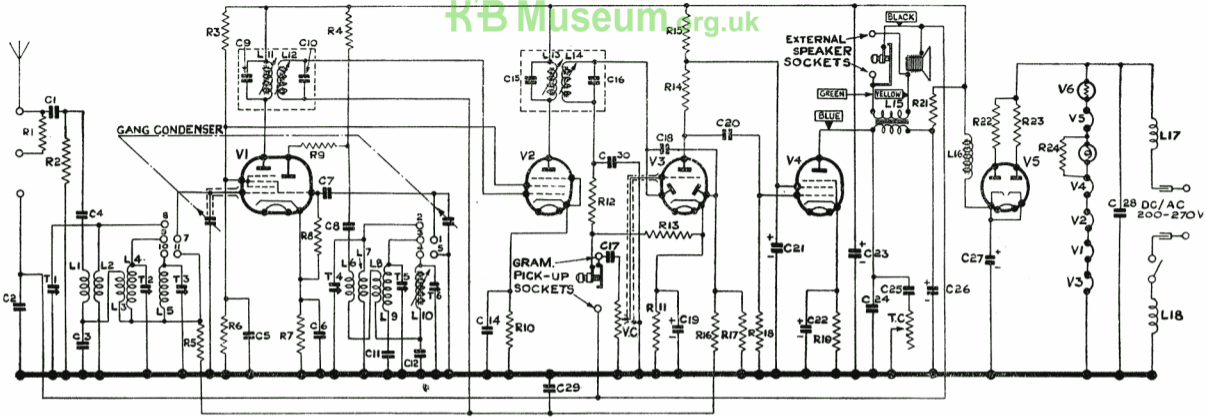
Readings + or - 10%

Socket contacts numbered CLOCKWISE from locating key, looking at underside.

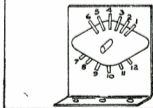
Valve	Function	Volts measured between Socket and Chassis								
		1	2	3	4	5	6	7	8	TOP CAP
6K8G	Frequency Changer		*12½	245	72	—4	96	* 6	—1	
6U7G	Pent. I.F. amp.		*19	230	72	2½		*12½	2½	0
6Q7G	2nd det, AVC & LF		0	72	.3	0		* 6	2	0
25A6G	Output Pent.		*19	190	130	0		*42	—18	
25Z6G	Rectifier	*215	*72	*210	*265	*210		*64	264	
Loud Speaker Socket			190	199						
301	Barretter									
Red Lead = *215										
Voltage Across Output Trans. Primary		...	...	...			L15	9 volts		
" " L.F. Smoothing Choke		...	...	...			L16	12 "		
Current through " " "		...	...	...				55 mA		
Resistance of " " "		...	...	...				220 ohms		
" " Filter Coils		...	...	...			L17 & 18	2 ohms each		

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

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

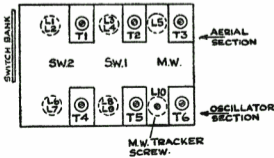


WAVERANGE SWITCH CONTACTS

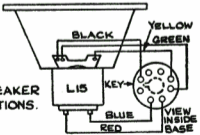


SWITCH POSITION	CONTACTS
SHORT WAVE 2	1 TO 2 3 TO 4 & 5 7 TO 8 9 TO 10 & 11
SHORT WAVE 1	1 TO 3 4 TO 5 7 TO 8 10 TO 11
MEDIUM WAVE	1 TO 4 7 TO 10

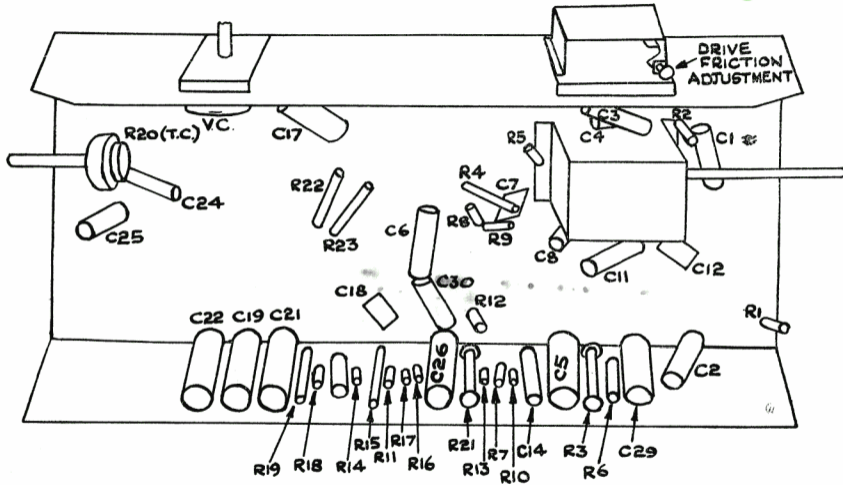
COIL UNIT.



LOUDSPEAKER CONNECTIONS.



UNDER CHASSIS VIEW

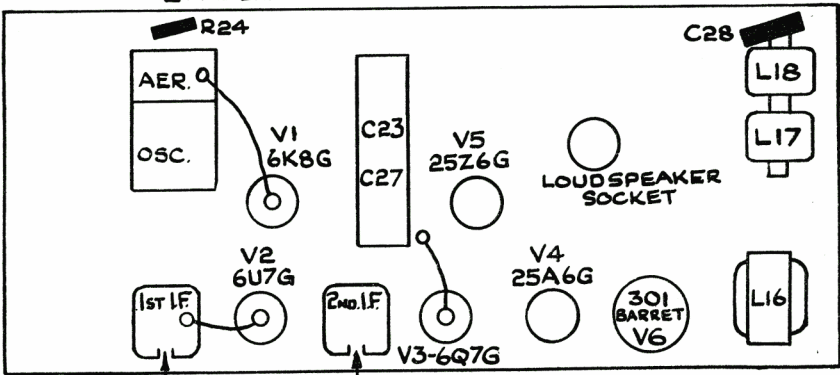


- R1. 10,000 ohms
- R2. 1,000 ohms
- R3. 20,000 ohms 2 watt
- R4. 50,000 ohms 1 watt
- R5. $\frac{1}{2}$ Megohm
- R6. 25,000 ohms 1 watt
- R7. 300 ohms
- R8. 50,000 ohms
- R9. 150 ohms
- R10. 300 ohms
- R11. 5,000 ohms
- R12. 50,000 ohms
- R13. $\frac{1}{2}$ Megohm
- R14. 250,000 ohms
- R15. 15,000 ohms 1 watt
- R16. $\frac{1}{2}$ Megohm
- R17. $\frac{1}{2}$ Megohm
- R18. $\frac{1}{2}$ Megohm
- R19. 400 ohms 1 watt
- R20. Tone Control, 50,000 ohms
- R21. 1,000 ohms 2 watt
- R22. 100 ohms 1 watt
- R23. 100 ohms 1 watt
- R24. 150 ohms
- Volume Control $\frac{1}{2}$ Megohm
- C1. .01mFd. 450V.
- C2. .01mFd. 450V.
- C3. .004mFd. (Special)
- C4. .005mFd.
- C5. .1mFd.
- C6. .1mFd.
- C7. 50mmFd. Mica
- C8. .001mFd.
- C9. 150mmFd. } Special
- C10. 150mmFd. }

TOP VIEW OF CHASSIS.

RB Museum.org.uk

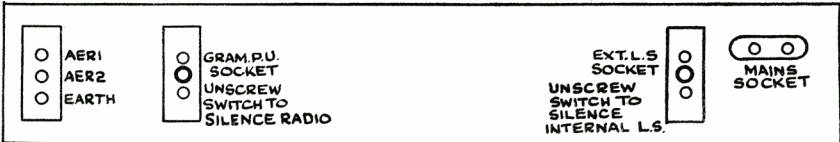
SCALE  DIAL LAMP



ADJUST
L12-C10 TOP
L11-C9 BOTTOM

ADJUST
L14-C16 TOP
L13-C15 BOTTOM.

BACK OF CHASSIS



- C6. 1mFd.
- C7. 50mmFd. Mica
- C8. .001mFd.
- C9. 150mmFd. } Special
- C10. 150mmFd. }
- C11. 2,500mmFd. } Special
- C12. 400mmFd. }
- C14. .02mFd.
- C15. 150mmFd. } Special
- C16. 280mmFd. }
- C17. .005mFd.
- C18. 25mmFd.
- C19. 25mFd. Elect.
- C20. .02mFd.
- C21. 2mFd. Elect.
- C22. 25mFd. Elect.
- C23. 16mFd. Elect.
- C24. .001mFd. 450V.
- C25. .03mFd.
- C26. 2mFd. Elect.
- C27. 16mFd. Elect.
- C28. .01mFd. 450V.
- C29. 1mFd.
- C30. .0005mFd.
- Pilot Lamp, 8v. .3amp.
- L1. Aerial S.W.2. Prim.
- L2. Aerial S.W.2. Sec.
- L3. Aerial S.W.1. Prim.
- L4. Aerial S.W.1. Sec.
- L5. Aerial M.W. Sec.
- L6. Oscil: S.W.2. React.
- L7. Oscil: S.W.2. Sec.
- L8. Oscil: S.W.1. Prim.
- L9. Oscil: S.W.1. Sec.
- L10. Oscil: M.W. Sec.
- L11. IF Prim.
- L12. IF Sec.
- L13. IF Prim.
- L14. IF Sec.
- L15. Output Transformer
- L16. LF Filter Choke
- L17. RF Filter Choke
- L18. RF Filter Choke

SPARES 835/OAI

ALWAYS QUOTE PART No. WHEN ORDERING SPARES.

Component	Part No.	List Price	Component	Part No.	List Price	
Volume Control	80601	4/6	Iron Dust Core	77007	9d.	
Tone Control and Switch ...	80602	6/-	Cabinet	A83575	45/-	
Wave-band Switch Bank ...	56004	2/-	Service Screen (base cover) ...	83075/2	8d.	
Scale	83050/OAI	3/9	Knobs (side)	81012	10d.	
Pilot Lamp, 8-volt	64023	8d.	Knobs (front)	A81069	1/-	
L.F. Choke	A73574/T	10/-	Extension L.S. Panel	A83067	6d.	
R.F. Filter Chokes	A83573/T	5/3		C3	KT33/T	1/3
Condenser Block	KE27	8/-		C9, C10, C15	KSM5/10	9d.
1st I.F. Transformer, complete	A83094	9/6	SPECIAL	C11	KT36/T	1/3
2nd I.F. " " "	A83095	9/6	CONDENSERS	C12	KSM5/13	1/3
2—Gang Condenser	A83080/B	15/6		C16	KSM5/11	1/-
Valve Can	80420	1/6	COILS :—			
Loud Speaker, complete with leads	A80588	38/6	M.W. Aerial Coil	A83088/B		
" " without leads ...	A80511	35/-	M.W. Oscillator Coil	A83090/A		
Output Transformer	R.729	9/-	S.W.1. Aerial Coil	A83091/B		1/8
Drive Cord Assembly	A83076	1/-	S.W.1. Oscillator Coil	A83091/C		each
Pointer Cord Assembly ...	A76060/B	1/-	S.W.2. Aerial Coil	A83091		
Trimmers, ceramic T1 to T6	A63067	11d.	S.W.2. Oscillator Coil	A83091/A		

MEMORANDA

THIS SPACE WILL BE FOUND USEFUL BY THE SERVICE ENGINEER FOR ANY NOTES HE REQUIRES TO MAKE.