

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

REMOVAL OF CHASSIS.

REMOVE: Three knobs, two scale screws and four chassis bolts. The chassis may then be lifted out of cabinet to the limit of loud speaker leads.

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

ALIGNMENT CHART FOR 800

*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 (Volume Control at max.)
1	I.F.	Grid of TH2	·1mfd. condenser	464kc/s	M.W.	580m	T4, T5, T10 and T11
2	M.W.	Aer.	Standard Dummy Aerial	250kc/s	L.W.	1,200m	T9 roughly
3	"	"	"	175kc/s	"	1,714m spot 214m spot	T8 roughly
4	"	"	"	1,400kc/s	M.W.		Trimmers, T7 and T2
5	"	"	"	600kc/s	"	500m	T8. Rock Tuning Gang Condenser slightly while adjusting for max. gain
6	Repeat			Operation		No. 4	
7	L.W.	Aer.	Standard Dummy Aerial	250kc/s	L.W.	1,200m	T9 and T3
8	S.W.	"	400ohms	15mc/s	S.W.	20m	T6 and T1

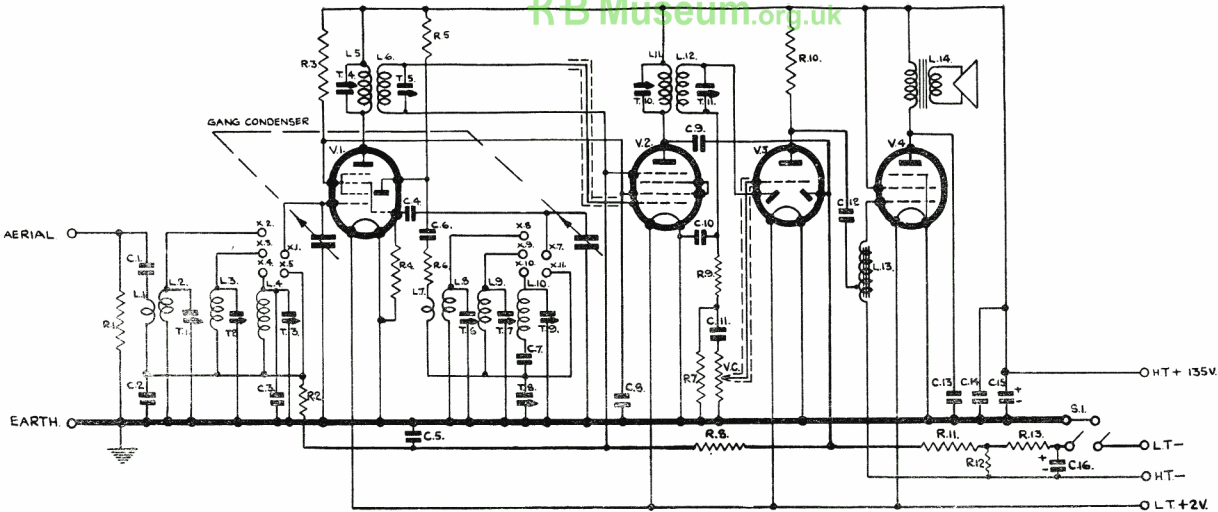
VOLTAGE & CURRENT CHART 800

All voltages measured to chassis.
Volume Control at maximum.

Readings $\pm 10\%$
Aerial and Earth disconnected.

Valve	Anode	Screen	
TH2 (met)	(hex) 129V. 1·2mA.★ (osc) 55V. 3mA.★	52V. ·8mA.★	L.T. Accumulator "Exide" GFG4C H.T. Battery, "Drydex" H1131 — 135v. Total H.T. current 10·1mA.★ ,, L.T. ,, ·575Amp. @ 2 volts
VP2B (met)	129V. 1·5mA.★	52V. ·6mA.★	
TDD2A (met)	45V. ·7mA.		Automatic Grid Bias is obtained by the flow of total H.T. current through resistances R12 & R13
PM22A	128V. 2mA.★	129V. ·3mA.★	Voltage across R12 + R13 = - 6v. Voltage across R13 = - 2v.

★ These readings will change when receiving a signal.



SWITCH CONTACTS

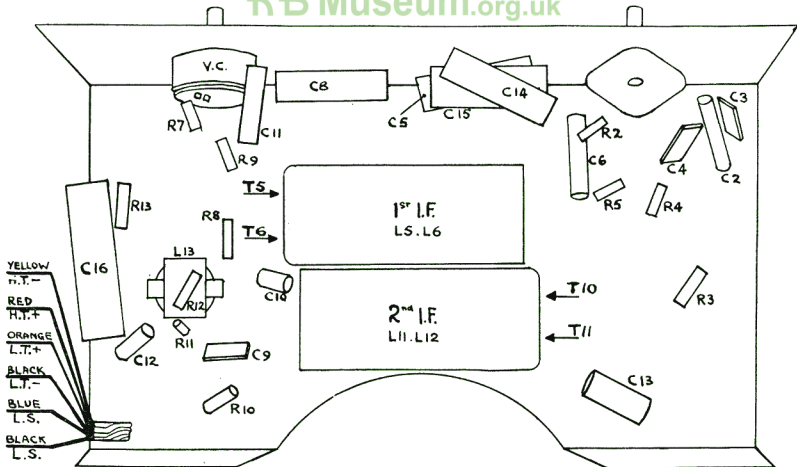
The contacts specified on the right, connect when the switch is in position shown below.	6 and 12 are not used.
SHORT WAVE	1 to 2 3 to 4 and 5 7 to 8 9 to 10 and 11
MEDIUM WAVE	1 to 3 4 to 5 7 to 9 10 to 11
LONG WAVE	1 to 4 7 to 10

**KEY TO CIRCUIT
 DIAGRAM**

- | | | | |
|------------------------------------|---------------------------------|-----------------------------------|------------------------|
| VC. = 1 meg. Ω | C1. = .005 μ F | L1. = Aerial S.W. Pri. | V1. = Mullard TH2 met. |
| R1. = 5,000 Ω | C2. = .005 μ F special | L2. = " S.W. Sec. | V2. = " VP2B met. |
| R2. = $\frac{1}{2}$ meg. Ω | C3. = 25 μ F | L3. = " M.W. | V3. = " TDD2A met. |
| R3. = 30,000 Ω | C4. = 100 μ F | L4. = " L.W. | V4. = " PM22A met. |
| R4. = 50,000 Ω | C5. = .1 μ F | L5. = 1st I.F. Trans. Pri. | |
| R5. = 20,000 Ω | C6. = .01 μ F | L6. = " " Sec. | |
| R6. = 50 Ω | C7. = 230 μ F ($\pm 1\%$) | L7. = Oscillator S.W. Reac. | |
| R7. = $\frac{1}{2}$ meg. Ω | C8. = .1 μ F | L8. = " S.W. Pri. | |
| R8. = $\frac{1}{2}$ meg. Ω | C9. = 25 μ F | L9. = " M.W. | |
| R9. = 50,000 Ω | C10. = 500 μ F | L10. = " L.W. | |
| R10. = $\frac{1}{2}$ meg. Ω | C11. = .01 μ F | L11. = 2nd I.F. Trans. Pri. | |
| R11. = $\frac{1}{2}$ meg. Ω | C12. = .01 μ F | L12. = " " Sec. | |
| R12. = 400 Ω | C13. = .005 μ F | L13. = Intervale Auto-Transformer | |
| R13. = 200 Ω | C14. = .1 μ F | L14. = Output Transformer | |
| | C15. = 2 μ F Elect. | | |
| | C16. = 25 μ F Elect. | | |

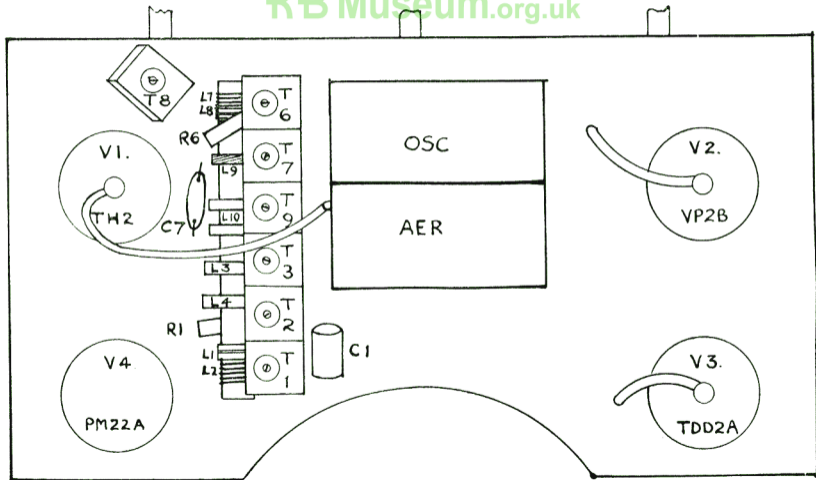
UNDER CHASSIS VIEW

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TOP VIEW OF CHASSIS

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ALWAYS QUOTE PART No. WHEN ORDERING SPARES

Components	Part No.	List Price	Components	Part No.	List Price
		each			each
Volume Control and Switch ...	80606/A		Aerial Socket, blue	91011	
Wave Band Switch	91005		Earth Socket, black	91011/A	
Scale	80050		Cabinet	A91075	
Gang Condenser and Drive ...	91710/A		Cabinet Back	91075/3	
1st I.F. Transformer	A75094/A		Glass Window	91010	
2nd I.F. Transformer	A75095/B		Celluloid Window	87003	
Coil Assembly	A91089		Knobs	81011/C	
Trimmer Strip	91007				
Trimmer, T8	91709		SPECIAL CONDENSERS :-		
Loud Speaker	80516		.005 μ F C2	KT11	
Output Transformer	R260A		25 μ F C3 and C9	KSM5	
Inter-valve Transformer ...	A32861/D		100 μ F C4	KSM5/1	
Tuning Pointers	A92060		230 μ F C7	KSM5/3	
Small Pointers	A91060		25 μ F Condenser C16	KE5	
A. & E. Panel	A91066		2 μ F Condenser C15	KE37	

MEMORANDA