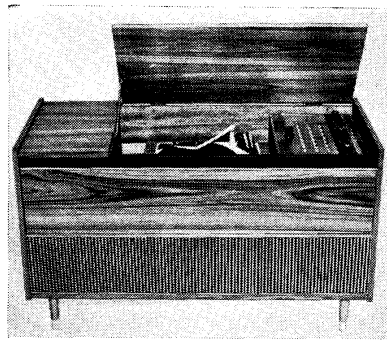


ERT

SERVICE CHART
1585
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TRANSISTORISED AM-FM stereograms covering LW, MW and VHF.
Mains. 200-250V AC 50c/s.
Wavebands. MW 187.3-571m (1600-525kc/s), LW 1150-2006m (260-149kc/s), VHF 87.5-101mc/s.

Transistors. TR1 AF180 FM RF amplifier, TR2 AF115 FM oscillator mixer, TR3 AF114 AM mixer and FM IF amplifier, TR4 AF114 AM/FM IF amplifier, TR5 AF114 AM/FM IF amplifier, TR6/TR7 AC156 audio preamplifiers,



DECCA 545/565 STEREOGRAMS

Additional copies of this chart price 1s. 6d. post free. Payment with order please to ERT, 40 Bowling Green Lane, London EC1

TR8/TR9 AC165 audio pre-drivers, TR10 AC166 and TR11 AC168 complementary push-pull drivers, TR12 AC168 and TR13 AC166 complementary push-pull drivers, TR14/TR15 AC177 push-pull output, TR16/TR17 AC177 push-pull output.

Diodes. D1 OA79 AGC clamp, D2/D3 OA79 FM ratio detector, D4 OA70 AM detector, D5 SFD107DC blocking diode, D6/D7/D8/D9 AA120 bias compensating diodes.

HT rectifier. Westinghouse LT123 bridge rectifier.

Pilot lights. Two 12V 0.1A MES.

Speakers. Two 8 x 5in. high flux 20ohms.

Output. 3W per channel.

Aerials. Internal ferrite aerial for MW and LW, internal dipole for VHF. Provision for external aerials for AM and FM. Aerial director control on MW and LW (model 565 only).

IFs. AM 472kc/s, FM 10.7mc/s.

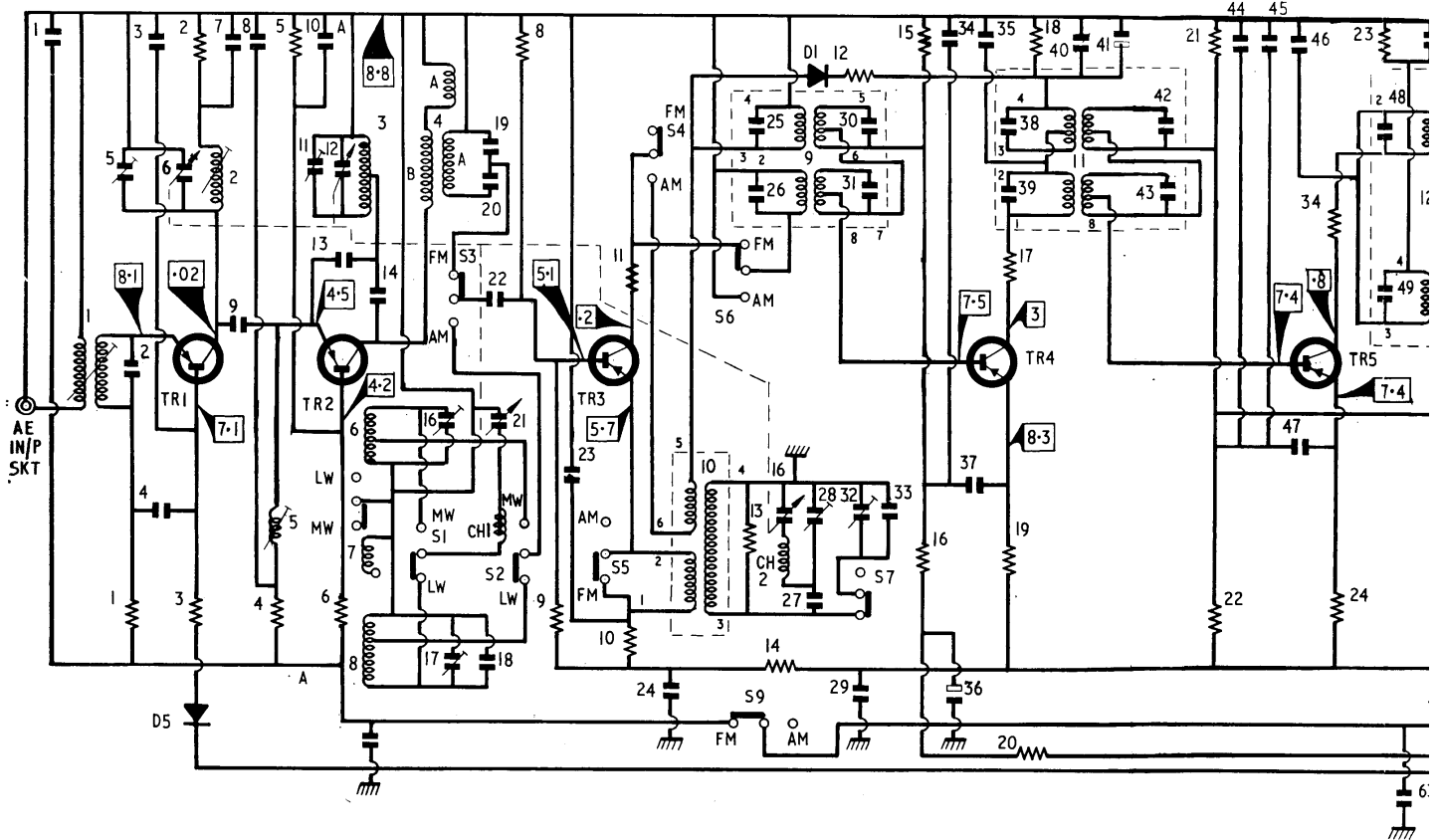
Sockets. Jack sockets for tape record and playback.

Record unit. Decca autochanger Part No. D590385.

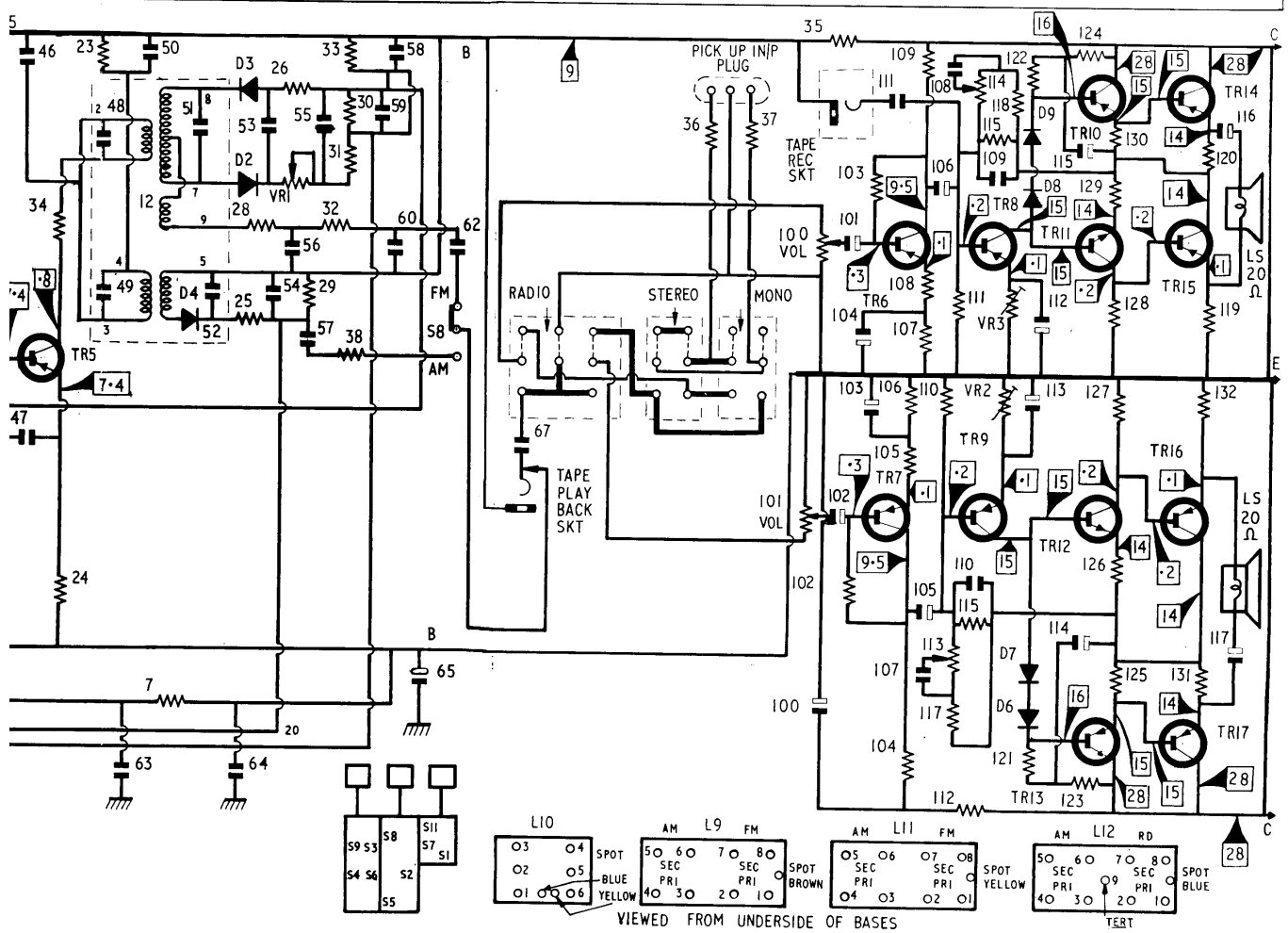
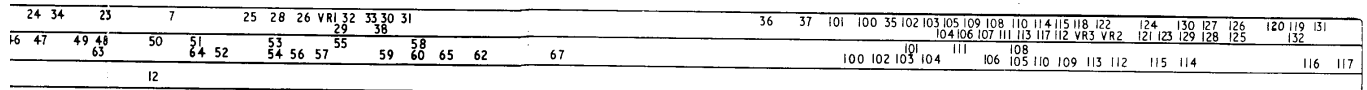
Cartridge. Sonotone 19T.

Styli. 19T diamond LP (colour code

R	1	3	2	4	5	6	8	9	10	14	12	15	16	19	17	18	20	21	22	24	34	23	
C	1	2	5	4	3	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
L	1	2	5	3	6	7	8	4	10	CH2	9	11	12	13	14	15	16	17	18	19	20	21	22



RESISTORS			POTENTIOMETERS			CAPACITORS		
R1	330	tuner	R106	18	B1	C1	10KpF	tuner
R2	100	tuner	R107	18	B2	C2	47pF	tuner
R3	1K	tuner	R108	5.6	B3	C3	1KpF	tuner
R4	3K3	tuner	R109	2K2	B2	C4	1KpF	tuner
R5	10K	tuner	R110	4K7	B1	C5	2-25pF	tuner
R6	10K	tuner	R111	4K7	B3			
R7	47	B3	R112	820	B2			
R8	33K	B4	R115	220K	B1			
R9	6K8	B4	R116	220K	B2			
R10	1K	B4	R117	10K	A1			
R11	220	A4	R118	10K	A1			
R12	680	B4	R119	3.3	C2			
R13	330K	B3	R120	3.3	C2			
R14	2K2	B4	R121	6K8	C2			
R15	56K	C4	R122	6K8	C2			
R16	3K3	B4	R123	2K2	B2			
R17	330	C4	R124	2K2	B2			
R18	1K5	B4	R125	150	C2			
R19	470	C4	R126	56	B2			
R20	3K3	B3	R127	150	C1			
R21	10K	C4	R128	150	C2			
R22	2K2	C4	R129	56	C2			
R23	47	C3	R130	150	C2			
R24	470	C3	R131	3.3	C2			
R25	390	B3	R132	3.3	C1			
R26	680	B3						
R28	82	C3						
R29	6K8	B3						
R30	6K8	B3						
R31	22K	B3						
R32	1K	B3						
R33	2M2	B3						
R34	220	C3						
R35	820	B2						
R36	1M5	A2						
R37	1M5	A2						
R38	47K	B3						
R102	220K	B2						
R103	220K	B2						
R104	2K2	B2						
R105	5.6	B1						



Vintage Service Data CD-Rom

Electrical and Radio Trading, March 23, 1967

green), 19T sapphire 78 (colour code blue).

Controls. Pushbuttons: mono, stereo, radio, MW, LW, VHF. Dual concentric volume controls, tone-on/off and tuning.

Manufacturer. Decca Radio and Television.

Service department. Ingate Place, Queenstown Road, London SW8. Tel.: Macauley 6677.

SERVICE NOTES

Slight readjustment of tuner alignment may be required if TR1 or TR2 is replaced. In the event of any fault apart from transistors occurring in the tuner, the whole assembly, including gang condenser, should be returned to the makers.

ALIGNMENT

Equipment required. AM and FM signal generators, output meter 20ohms or AC voltmeter on low AC volts range, 10KpF capacitor, 1K resistor, trimming tools.

Remove chassis. Connect output meter in place of one speaker, or AC voltmeter in parallel with one speaker. Turn volume to maximum.

FM IF. Tune FM generator to 10.7 mc/s with 22kc/s deviation. Fully close main tuning gang. Switch receiver to FM. Connect output from generator via C22 (10KpF) to base of TR3

(AF114). Join screening to printed circuit earth.

Inject low-level signal to give slight reading on meter. Adjust top and bottom cores of L9, L11 and L12 for maximum output. Repeat until no further improvement is obtained.

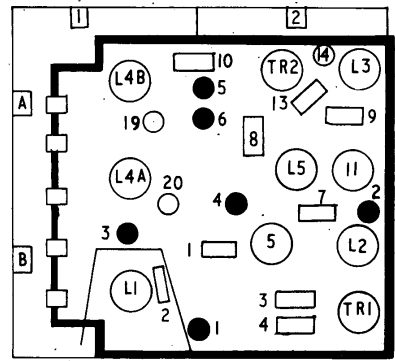
Change generator connections to FM aerial input terminals. Increase signal level and adjust L4 for maximum output. Switch generator to AM. Adjust VR1 for minimum output (maximum rejection). Repeat operations for optimum performance.

FM RF. Tune generator to 88mc/s with 22kc/s deviation. Tune receiver pointer to 88mc/s mark on dial. Switch to FM. Connect generator output between FM aerial socket and chassis. Adjust cores of L2 and L3 for maximum output.

Change generator tuning to 100mc/s deviated 22kc/s. Tune receiver to 100mc/s on dial. Adjust trimmers C11 and C5 for maximum output. Tune receiver pointer to 95mc/s. Adjust cores of L1 and L5 for maximum output.

AM IF. Fully close tuning gang. Switch to MW. Set generator to 472kc/s. Disconnect tag lead connecting MW aerial coil to TR3 base. Connect generator output between free end of lead and chassis.

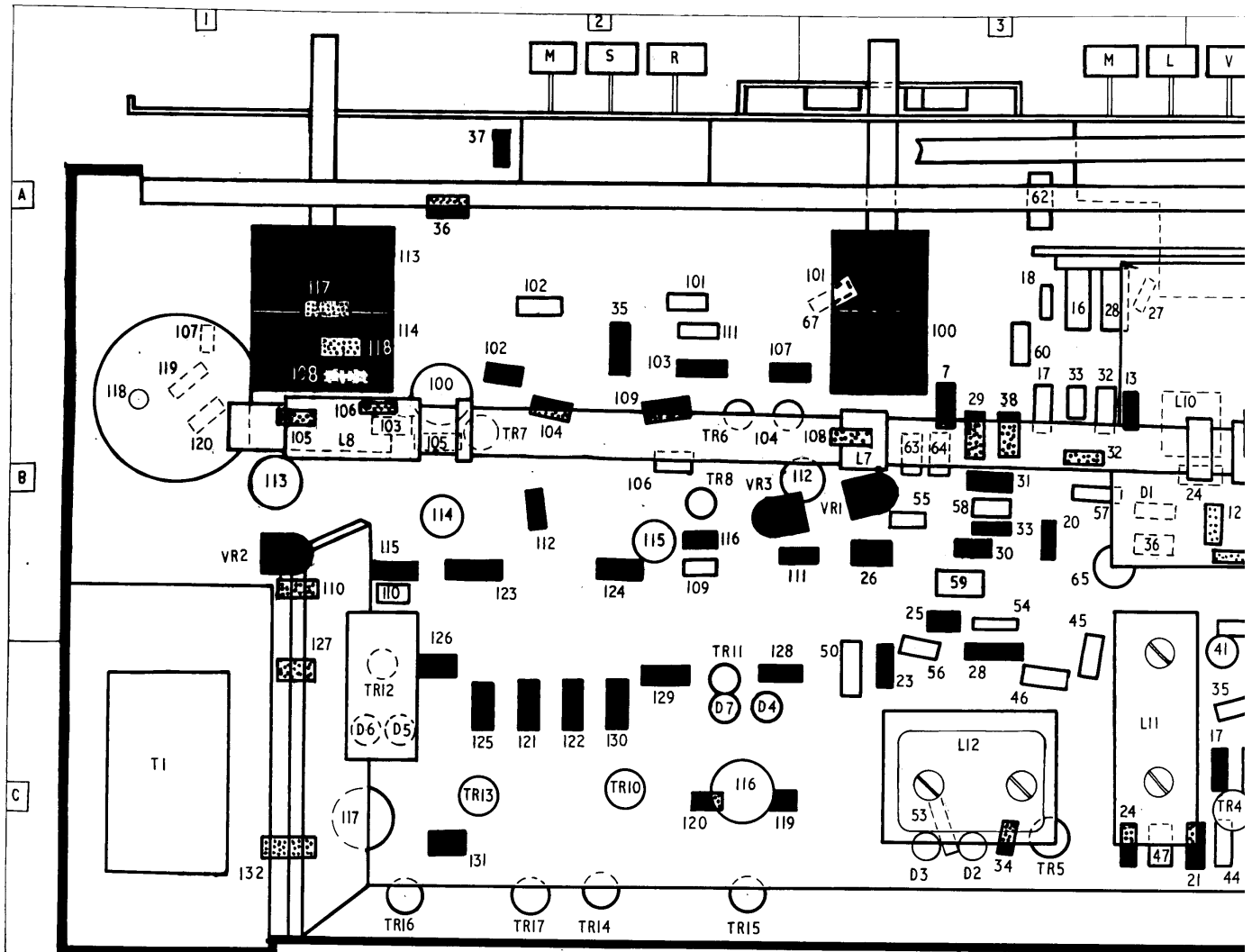
Peak top and bottom cores of L9

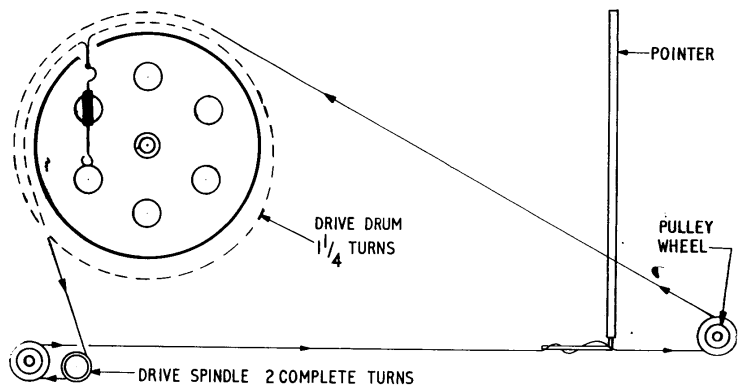
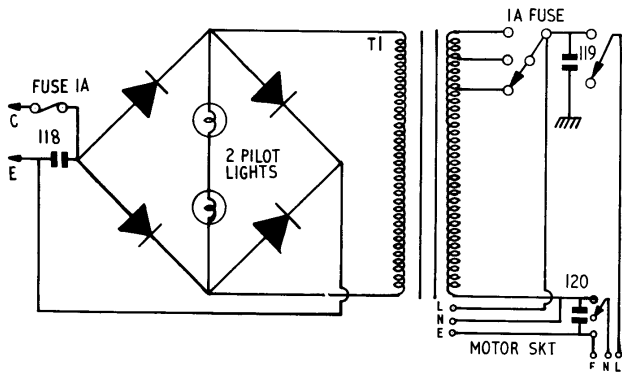


(AM) and L11 (AM). Peak L12 (one core only) for maximum output. Reduce generator output as circuits come into line. Repeat AM IF alignment for optimum performance. Reconnect lead to MW aerial coil.

AM RF. Switch to MW. Tune receiver pointer to 500m on dial. Tune generator to 600kc/s. Connect generator between AM aerial socket and chassis with 1K resistor in live lead. Adjust single core of L10 for maximum output. Adjust L6 for maximum output by sliding along ferrite rod.

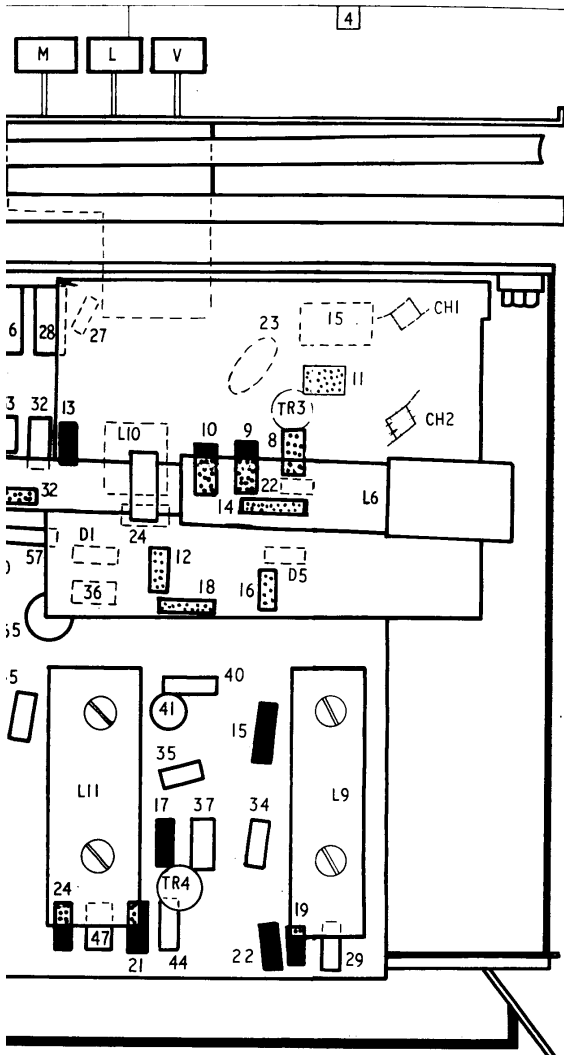
Tune receiver to 200m on dial. Change





generator tuning to 1500kc/s. Adjust oscillator trimmer C28 and aerial trimmer C16 for maximum output. Repeat MW RF alignment adjustments for optimum performance.

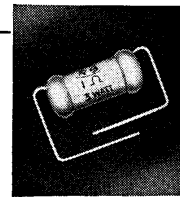
Switch to LW. Tune receiver pointer to 1765m on dial. Tune generator to 170kc/s. Adjust LW oscillator trimmer C32 and LW aerial coil L8 (by sliding along ferrite rod) for maximum output. Retune receiver pointer to 1250m. Set generator to 240kc/s. Adjust trimmer C17 for maximum output. Repeat LW RF adjustments for optimum performance.



Wirewound Reliability

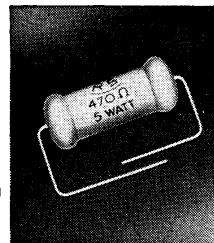


Highest quality materials
+ Carefully controlled production
= Top-class wirewound resistors.



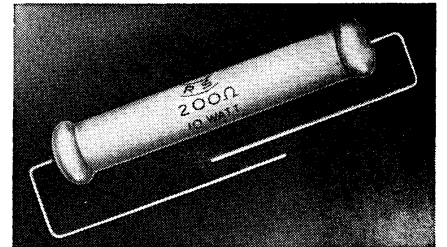
3 WATT

28 values from 0.5Ω to 270Ω at 1/- each.



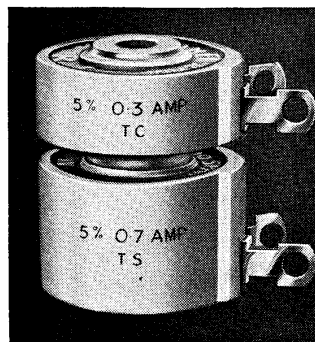
5 WATT

47 values from 15Ω to 8.2kΩ at 1/2 each.



10 WATT

30 values from 15Ω to 25kΩ. Prices 1/9 or 2/3 each depending on value.



POWER SECTIONS

39 values from 7Ω to 2kΩ. Price 1/9 or 2/3 each depending on value.

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