HIS MASTER'S VOICE *Service Sheet*

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ARGYLE

525D

(1953)

A five valve superheterodyne receiver housed in a moulded bakelite cabinet. Loctal valves are used throughout.

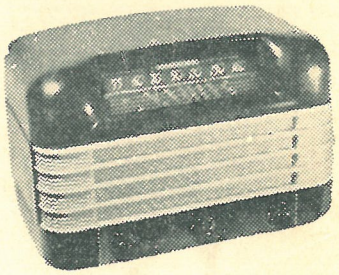
CONTROLS—Tuning, Volume: ON-OFF, Wave change, Tone—two position toggle switch at rear of cabinet.

VALVE COMPLEMENT: Mixer, 7S7; IF, 7B7; Det. Audio, 7C6; Power output, 7C5; Rectifier, 7Y4.

VALVE SOCKET VOLTAGES—measured to chassis.

7S7 Mixer	215	75	—
7B7 IF	215	75	—
7C6 Det. Audio	85	—	—
7C5 Power output	200	215	12
7Y4 Rectifier	—	—	300
7S7 Triode plate	75 volts		

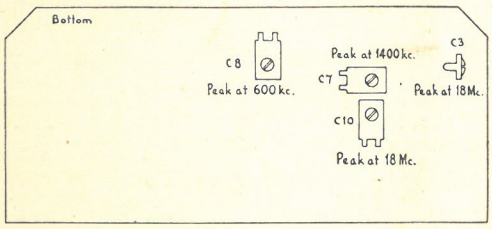
Voltmeter 1000 ohms per volt. Volume control OFF. No applied signal.

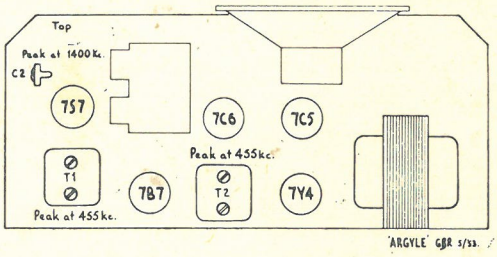


FREQUENCY RANGE: Broadcast 520 kc/s—1600 kc/s.
Shortwave 5.7 Mc/s—18.8 Mc/s.

POWER SUPPLY: AC mains only. 230 volts—50 cycles.
Consumption—.22 amps.

CABINET DIMENSIONS: Length, 13in.; Height, 9in.; Depth, 7in.





ALIGNMENT INSTRUCTIONS

Rotate tuning control until gang rotor is full in, then set pointer under arrow at top left of dial scale. With range selector set to 50 milliwatts, connect output meter across speaker voice coil. Turn receiver volume control on full, then by progressive reductions in signal-generator output during alignment, maintain output meter deflection at approximately half scale. Between the signal generator output cable and the receiver, use for RF a dummy antenna and for IF a .1 mfd. condenser.

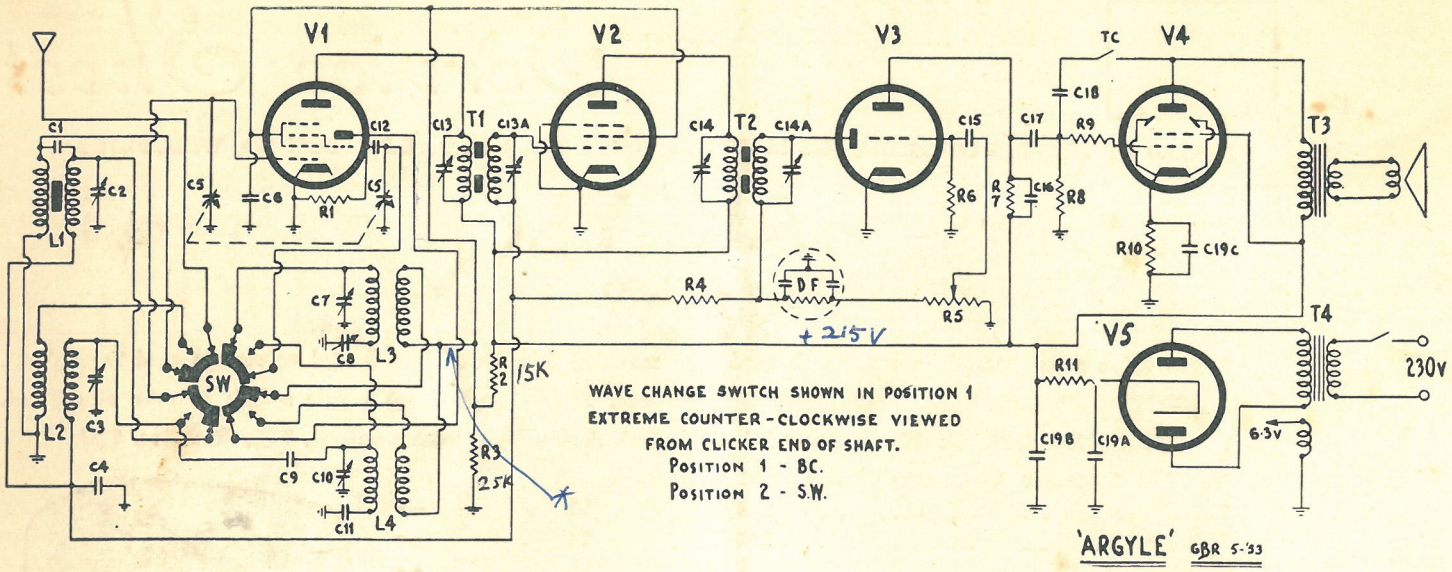
Connect Sig. Gen. to	Set. Sig. Gen. to	Radio Dial Setting	Adjust	Adjust for
1. C2 (front gang stator)	455 kc	1500 kc	C14A, C14 C13A, C13	Max. output
2. Aerial lead	600 kc	600 kc 'rock dial'	C8	Max. output
3. Aerial lead	1400 kc	1400 kc	C7 then C2	Max. output
4. Aerial lead	18 Mc	18 Mc	C10 then C3	Max. output

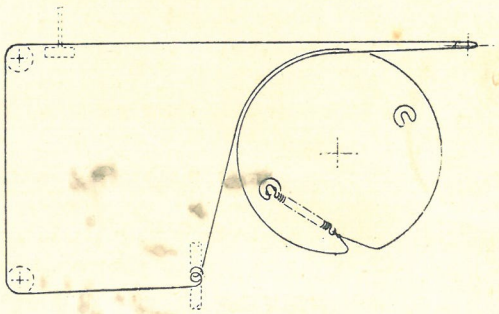
Repeat 2 and 3

It will be noted that C10A does not resonate sharply. This does not indicate that T1 is defective.

schematic dated May 53

525D





CONDENSERS	Store Part No.		RESISTORS	Store Part No.	
C1, 9	1500—P1	2 pfd. ceramic	R8	1300—I3	500k ½ watt
C2, 3	1500—F3	4/50 pfd. Trimmers TPC.2	R10	1300—A5	330 ohm 1 watt
C4	1500—A7	.05 mfd 350v.	R11	1300—C5	1500 ohm 5 watt w.w.
C5	1500—G	2-gang 'Polar' Type C1042	VALVES		
C6	1500—J1	.1 mfd. 350v	V1	1400—R2	7S7—Mixer
C7, 10	1500—F7	30 pfd. Trimmer TP/3G	V2	1400—Q9	7B7—IF
C8	1500—O8	Padder TP8D	V3	1400—R1	7C6—Det. Audio
C11	1500—S	.006 mfd. Mica	V4	1400—R	7C5—Output
C12, 16	1500—Q	.0001 mfd. Mica	V5	1400—R3	7Y4—Rectifier
(C13	1500—I2				
(C13A	1500—I2	140 pfd dual trimmer base	L1	CO1271	BC Aerial Coil
(C14	1500—I2		L2	CO1294	SW Aerial Coil
(C14A	1500—I2	140 pfd dual trimmer base	L3	CO1272	BC Osc. coil
C15	1500—B5	.01 mfd. 350v	L4	CO1295	SW Osc. coil
C17	1500—B4	.01 mfd. 500v	DF	Diode filter	
C18	1500—E	.00005 mfd. mica	T1	TR28	1st IF transformer
C19, A, B, C	1500—N4	40-40-20 mfd. electro. 350v	T2	TR29	2nd IF transformer
			T3	SP937	Output xformer & Rola 5H
R1, 9	1300—F8	47k ½ watt	T4	TR25	Power transformer =48-R-02 Beacon
R2	1300—E5	15k 1 watt			
R3	1300—L1	25k 1 watt	DF	FI1310	Diode filter Dubilier
R4	1300—J1	2 meg. ½ watt			
R5	PO213	½ meg. vol. cont. & switch		LA1089	Panel lamps 6.5v
R6	1300—J5	4.7 meg. ½ watt			
R7	1300—K4	250k ½ watt	SW	SW184	Wave change switch 2 pos.

* Mod: - reduce plate voltage on osc triode

Note: - difference in mixer + IF screen voltage supply compared with 525A/BC "Perth"