



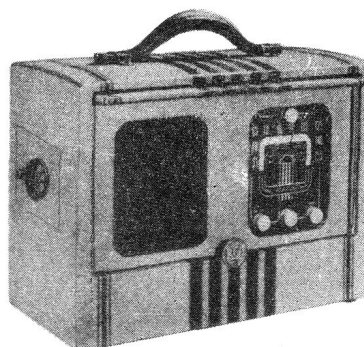
RCA Victor

DUETTE

Five-Tube, Two-Band, AC/DC or Battery operated Superheterodyne Receiver

TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL



Electrical and Mechanical Specifications

Frequency Range 540-1,550 K.C. & 5.7-18.5 M.C.
Intermediate Frequency 455 K.C.

TUBE COMPLEMENT

(1) 1A7G	1st Det.—Osc.
(2) 1N5G	I. F. Amplifier
(3) 1H5G	2nd Det., A-F, and AVC.
(4) 3Q5GT	Output
(5) 35Z5GT	Rectifier

POWER SUPPLY

110 to 125 volts, AC 25 or 60 cycles, or DC.

Series filament current05 Amps.

BATTERIES REQUIRED

"A" one 1.4 volt dry plug-in type

"B" two 45 volt dry plug-in type

CURRENT CONSUMPTION

"A"—0.25 Amps; "B" 10 m.a.

POWER OUTPUT

Undistorted 150 Milliwatts

Maximum 250 Milliwatts

LOUDSPEAKER

Type 5 inch "P.M." Dynamic

Voice Coil Impedance 5 ohms at 400 cycles

	Height	Width	Depth
Cabinet Dimensions (inches)	10 1/16"	13 1/2"	6 3/4"

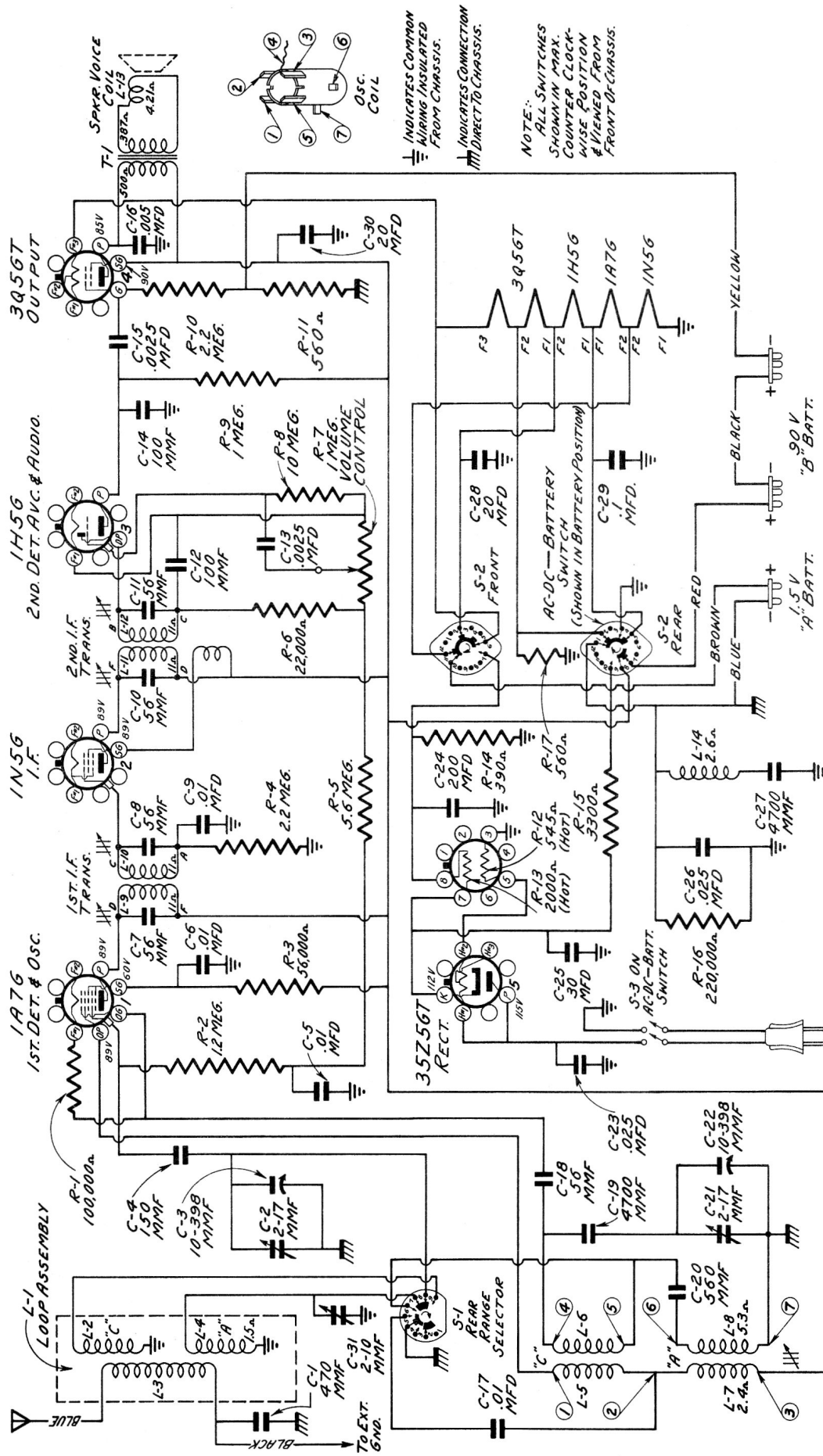
Weight (net) 16 1/4 pounds

Tuning drive ratio 6 to 1

General Description

The RCA Victor Duette is a five tube, two band AC/DC and battery operated, portable type receiver of unusual design. Features of design include a loop antenna for "Broadcast" and "Short Wave" reception, AC/DC and battery switch, low drain 1.4 volt tubes

in the R.F. and I.F. circuits, five inch P.M. speaker, and a large easy to read dial. An ingenious filament network is used with the power switch, placing the filaments in parallel for battery operation and in series with the rectifier tube filament for AC/DC operation.



Schematic Circuit Diagram

Voltage measurements appearing above are made to chassis, with set tuned to quiet point. Values should hold within approximately plus or minus 20% with rated battery voltage.

Alignment Procedure

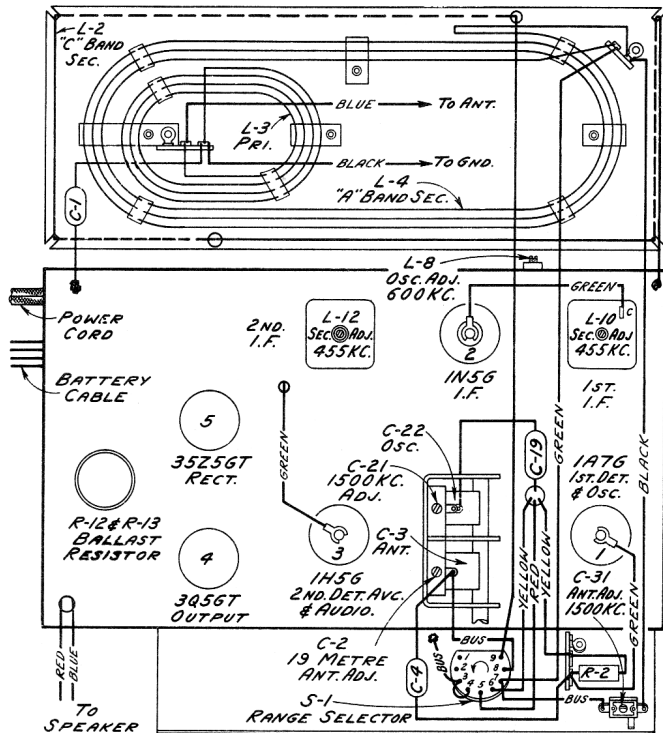
Output Meter Alignment—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-oscillator.—For all alignment operations, keep the output as low as possible to avoid a-v-c action.

Align with switch in battery position.

Steps	Connect high side of test-osc. to—	Tune test osc. to—	Turn radio dial to—	Adjust for Max. Peak
1	1A7-G 1st Det. grid cap in series with .01 mfd.	455 k.c.	quiet point around 1500 k.c. end of dial	L9, L10, L11, L12 (1st and 2nd I.F. transformers)
2	Antenna lead in series with 200 mmfd.	1500 k.c.	1500 k.c.	C21 (osc.) C31 (ant.)
3	Antenna lead in series with 200 mmfd.	600 k.c.	600 k.c.	*L8
4	Antenna lead in series with 300 ohms	18 m.c.	18 m.c.	C2

*Adjustment screw to be 10 turns past outside of fibre back on chassis before aligning.



REPLACEMENT PARTS FOR DUETTE

Insist on genuine factory tested parts, which are readily identified and may be purchased from authorized dealers.

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
RECEIVER ASSEMBLIES			
S-2793	Ballast-Ballast resistor (R12, R13).....	13601	Resistor-10 meg.; 1/4 watt (R8)....
S-2810	Cable-Battery cable complete with plugs	S-2800	Shaft-station selector drive shaft
S-2811	Capacitor-Adjustable 2 - 10 mmfd. (C31)	S-2813	Socket-Tube socket.....
12723	Capacitor 56 mmfd. (C18).....	30585	Spring-Drive cord tension spring (Pkg.2).....
12720	Capacitor-100 mmfd. (C12, C14).....	S-2814	Switch-Range switch (S1).....
12725	Capacitor-150 mmfd. (C4).....	S-2801	Switch-A.C.-D.C. power switch (S2, S3).....
12952	Capacitor-470 mmfd. (C1).....	32263	Transformer-First I.F. Transformer (L9, L10, C7, C8).....
12537	Capacitor-560 mmfd. (C20).....	S-2815	Transformer-Second I.F. Transformer (L11, L12, C10, C11).....
12897	Capacitor-4700 mmfd. (C19, C27).....	S-2816	Volume Control (R7).....
5107	Capacitor-.0025 mfd. (C13, C15).....	REPRODUCER ASSEMBLIES	
4838	Capacitor-.005 mfd. (C16).....	(CRL-519) 5" P.M.	
4858	Capacitor-.01 mfd. (C5, C6, C9, C17).....	32907	Cap-Dust cap for cone center (Pkg. 5).....
4870	Capacitor-.025 mfd. (C23, C26).....	S-2802	Cone-Reproducer cone & voice coil (L13).....
4839	Capacitor-0.1 mfd. (C29).....	5118	Plug-3 contact male plug.....
S-2794	Capacitor-Electrolytic capacitor comprising one 200 mfd. and one 20 mfd. sections (C24, C28).....	S-2803	Reproducer complete.....
S-2795	Coil-Oscillator coil (L5, L6, L7, L8)...	S-2804	Transformer - Output transformer (T1).....
S-2796	Coil-Filter coil (L14).....	MISCELLANEOUS ASSEMBLIES	
S-2797	Condenser-Variable tuning condenser and drum assembly (C2, C3, C21, C22)...	S-2805	Dial-Station selector dial scale assembly.....
S-2394	Cord-Variable tuning condenser drive cord.....	32633	Handle-Carrying handle.....
S-2798	Indicator-Dial indicator disc assembly.....	S-2806	Knob-Range switch, tuning or volume control knob.....
S-2799	Loop-Antenna loop assembly (L1).....	S-2809	Knob-Power switch knob.....
32208	Plug-2 prong male battery plug.....		
12827	Plug-3 prong male battery plug.....		
S-2793	Resistor-Ballast resistor, one 545 ohm and one 2000 ohm sections (R12, R13)		
S-2812	Resistor-390 ohm, 1/2 watt (R14).....		
11324	Resistor-560 ohm, 1/4 watt (R11, R17)...		
S-2819	Resistor-3300 ohm, 1/2 watt (R15).....		
14284	Resistor-22,000 ohm, 1/10 watt (R6)....		
12286	Resistor-56,000 ohm, 1/4 watt (R3)....		
11281	Resistor-100,000 ohm, 1/10 watt (R1)...		
12264	Resistor-220,000 ohm, 1/10 watt (R16)...		
S-2496	Resistor-1 meg., 1/10 watt (R9).....		
31056	Resistor-1.2 meg.; 1/10 watt (R2).....		
12679	Resistor-2.2 meg., 1/4 watt (R4, R10)...		
S-2820	Resistor-5.6 meg.; 1/10 watt (R5).....		