

The Blackbird, a class B battery set, is a product of Aerodyne Radio, Ltd.

VALVE READINGS V.C. Max.

Valve.	Type.	Electrode.	Volts.	Ma.
1	VP2 met (7)	anode	110	2.2
	` '	aux grid	110	
2	PMIHL (5)	anode	80*	1.1
3	PM2A (5)	anode	130	4.5
4	PM2B (7)	each anode	130	1.7

	RESISTANCES	
R.	Purpose.	Ohms.
1 2 3 4 5 6	Decoupling V1 grid G.B. ptr. V.C. Decoupling V1 anode V2 grid leak V2 anode L.F. coupling V2 anode decoupling	8,000 6,000 1 meg.

CONDENSERS					
C.	Purpose.	Mfd.			
4 5	Aerial coupling to V.C	.1			
5	Band-pass coupling (twisted wire).				
6	Band-pass coupling	.05			
8	Decoupling V1 anode	.1			
6 8 9	Reaction (var.)	.0005			
ŏ	V2 grid	.0001			
ĭ	H.F. filter in V2 anode	.0005			
$\bar{2}$	H.F. filter in V2 anode	.0005			
3	Filter feed to transformer	.05			
4	1 370 amada dasasastina	1			
ŝ	Tone componenting V4	.001			
6	Tone componenting V4	.001			
7	Tone componenting 374				
8		.005			
8	Across H.T	8 el.			

AERODYNE BLACKBIRD BATTERY FOUR

-The H.F. valve, VP2 met. (V1), is preceded by a band-pass aerial tuner. Volume is controlled by a bias potentiometer across the G.B. battery, and this also damps the aerial

The following coupling is a tuned anode H.F. coil

A PM1HL (V2) operates as a leaky grid detector with reaction, and is followed by a parallel-fed transformer

The driver valve, PM2A (V.3), is coupled to the output stage by a conventional driver

The class B valve, PM2B (V4), operates with zero bias and is tone compensated by a condenser between the anodes and one between each anode and earth.

Special Notes.—The combined H.T. and G.B. battery is a Hellesen 130-v. + 9-v. unit.

H.T.+, white, 130 v.; H.T.-, brown; L.T.-, black; L.T.+, buff; G.B.-1, 4.5 v.,

blue; G.B.—2, 9 v., green. Switching disconnects both L.T.+ and G.B.—2 leads.

Quick Tests.—Test L.F. section pick-up and test the valves.

Removing Chassis .- Pull off the knobs, remove two screws from battery platform, remove four screws underneath cabinet and lift

General Notes.—An additional .1 mfd.

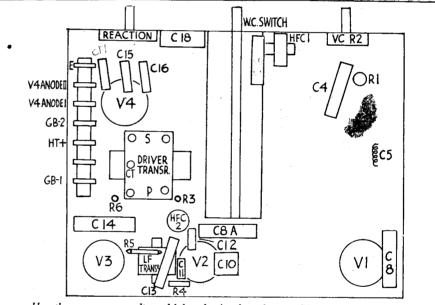
General Notes.—An additional .1 mfd. condenser, C8A, may be found in some models. This is actually in parallel with C8.

The anchorages for the leads are given in the layout diagram. Note that the centre tapping on the secondary of the driver transformer is earthed through the casing.

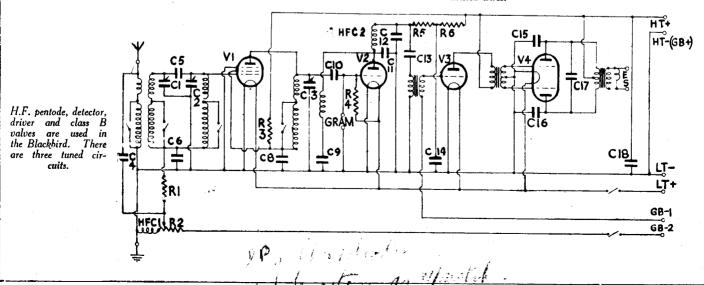
The grid leak R4 is actually mounted between the pick-up terminal and the positive

between the pick-up terminal and the positive socket of V3.

Replacing Chassis.-Lay chassis rubber supports, replace battery shelf, four screws underneath and knobs.



How the components are disposed below the Aerodyne chassis. C5 is a condenser formed by twisted wires.



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