McMICHAEL MODEL 367 SUITCASE PORTABLE

CIRCUIT.—The McMichael 367 is a four-valve suitcase portable designed for working on long and medium wave bands.

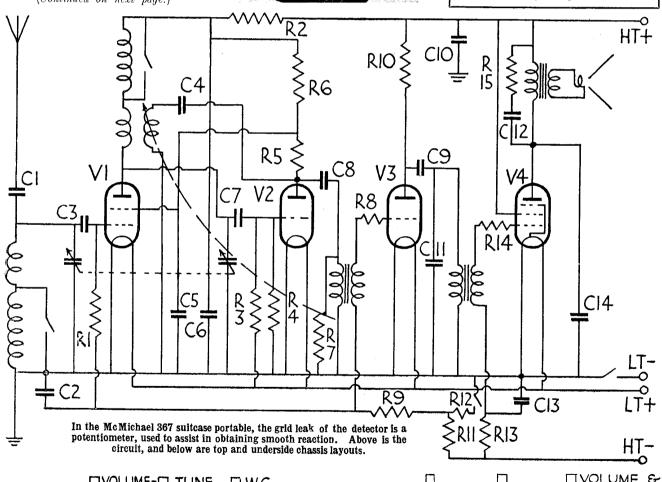
The aerial circuit consists of a tuned frame aerial feeding the grid of V1, a screen-grid valve, through a series condenser. An external aerial connection is provided through a small fixed condenser.

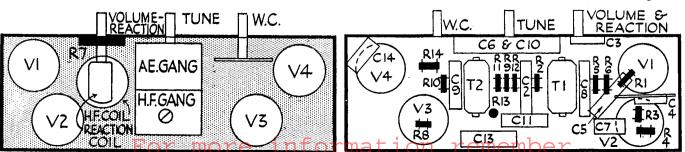
The output of V1 passes to V2, a triode detector, through an H.F. coil and C7. Reaction is obtained by varying the coupling between the H.F. and reaction coils. With this valve the grid leak is a potentiometer consisting of R3 and R4, connected across the filament supply. The centre point is connected to the grid and (Continued on next page.)



VALVE READINGS No signal and no reaction. New batteries. Electrode. Type. Volts. Ma. 1 S215A Met.(4) anode $\frac{92}{37}$ screen HL2 Met. (4) ... HL2 Met. (4) ... Pen. 220 (5) ... (All Mazda) 29 63 .38 3.2 .32 anode anode

<u>c.</u>	CONDENSE Purpose.	Mfds.	
		[
1	Series aerial		.00001
2	V1 and V3 bias decoupling		.25
3	V1 grid		.001
4	Reaction feed		.002
5	V1 screen decoupling		.1
1 2 3 4 5 6 7 8 9	V1 and V2 H.T. shunt		8
7	V2 grid	- 1	.00005
ġ	L.F. coupling		.1
ă			
10	H.T. shunt		.1 8
11	m.i. snunt		
	H.F. by-pass		.002
12	Tone control		.002
13	V4 bias decoupling		.1
14	Pentode compensating		.005





McMICHAEL 367 PORTABLE BATTERY RECEIVER (Continued)

13	Desmonen			Ohms.
R.	Purpose.		.	Onnis.
1	V1 bias feed			1 meg.
$\frac{1}{2}$	V1, V2 series H.T.			5,000
3	V2 grid leak pot.			2 meg.
4 5	V2 grid leak pot.			2 meg.
5	V2 anode feed			30,000
6	V1 screen and V2 a	node	de-	•
	coupling			80,000
> 7	Volume control			<u>-</u>
> 7 8 9	V3 grid stopper			.1 meg.
9	V1 and V3 decoupli	ng		.5 meg.
10	V3 anode feed			30,000
11	Bias potentiometer			400
12	Bias potentiometer			100
13	V4 bias decoupling			.5 meg.
14	V4 grid stopper			.1 meg.
15	Tone control			20,000

(Continued from previous page.)
the purpose of the arrangement is to
assist in obtaining smooth reaction.

assist in obtaining smooth reaction.

The coupling to V3, a triode, is through a condenser C8, and a transformer, the

volume control being shunted across the primary winding and ganged with the moving reaction coil.

moving reaction coil.

The L.F. output of V3 then passes through a second transformer to the output pentode V4 and, after amplification, to the moving coil speaker.

to the moving-coil speaker.

Grid bias is automatic, no separate battery being used, and is obtained by means of resistances in the negative H.T. lead.

Special Notes.—Terminals are provided for headphones. These are on the right of the speaker grille.

The sockets on the left of the speaker grilles are for an external aerial and earth, the outside one being the aerial connection.

C1, C12, and R15 are inside the lid on the speaker baffle.

Exposing Chassis .- Remove the cover of

the battery compartment, and undo the two large bolts nearest the handle of the case. These bolts are captive and cannot be completely removed. By using the bolts heads as knobs the chassis can be raised on hinges.

There is no need to remove the batteries when exposing the chassis.

To remove the frame aerial remove the four wood screws, two on either side of the outside of the lid.

ALIGNMENT NOTES

There is one trimmer that can be adjusted on this receiver, situated on the H.F. section of the gang condenser.

The adjustment should be made on a weak transmission with the volume control in a mid position.

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