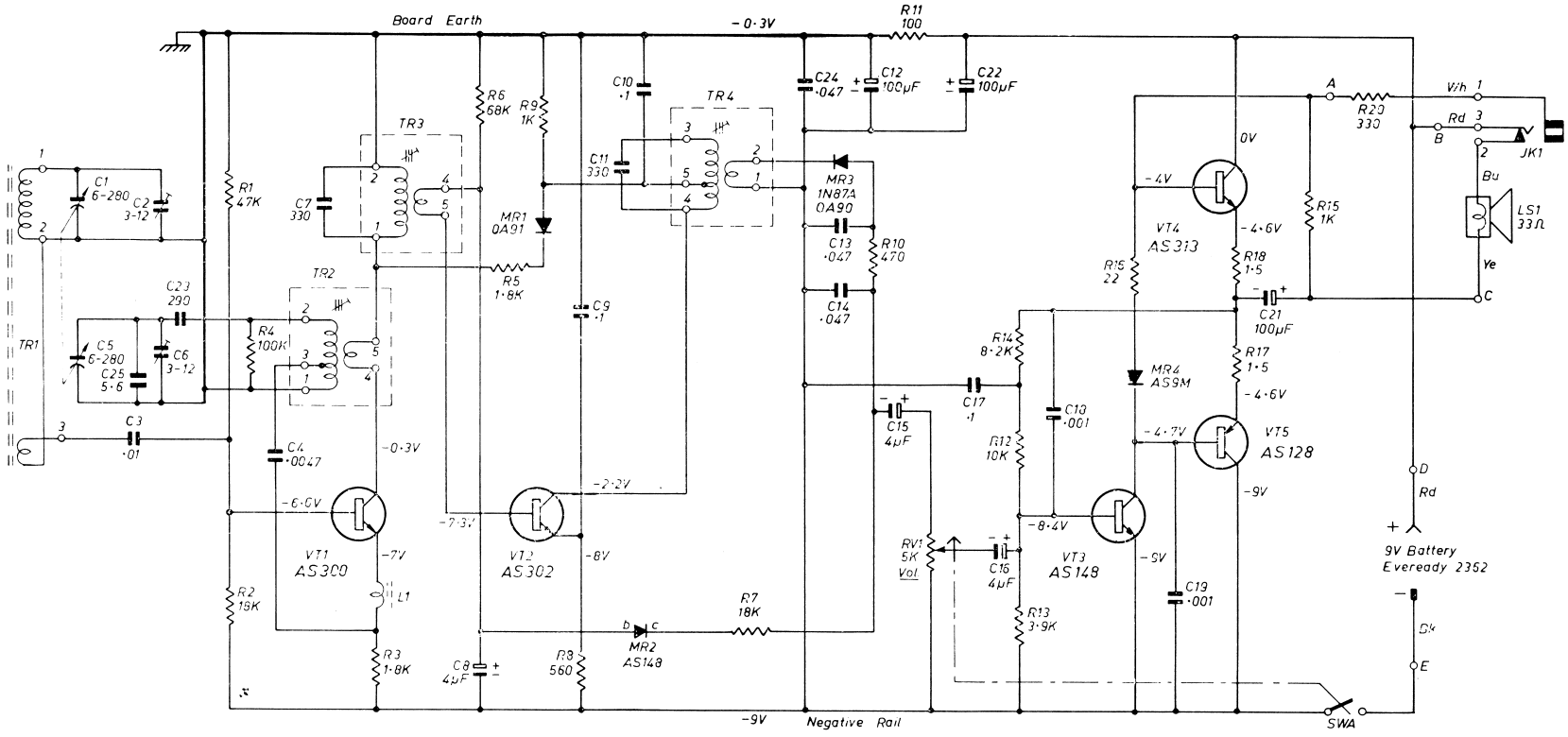
A.W.A. FIVE TRANSISTOR PORTABLE MODELS B67, B76 AND B77

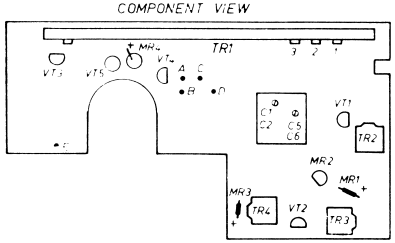


NOTES:

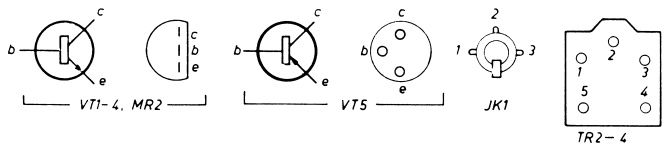
All voltages shown are negative and are referred to positive terminal of battery.

Voltages measured under no signal conditions with 20,000 ohm/volt meter.

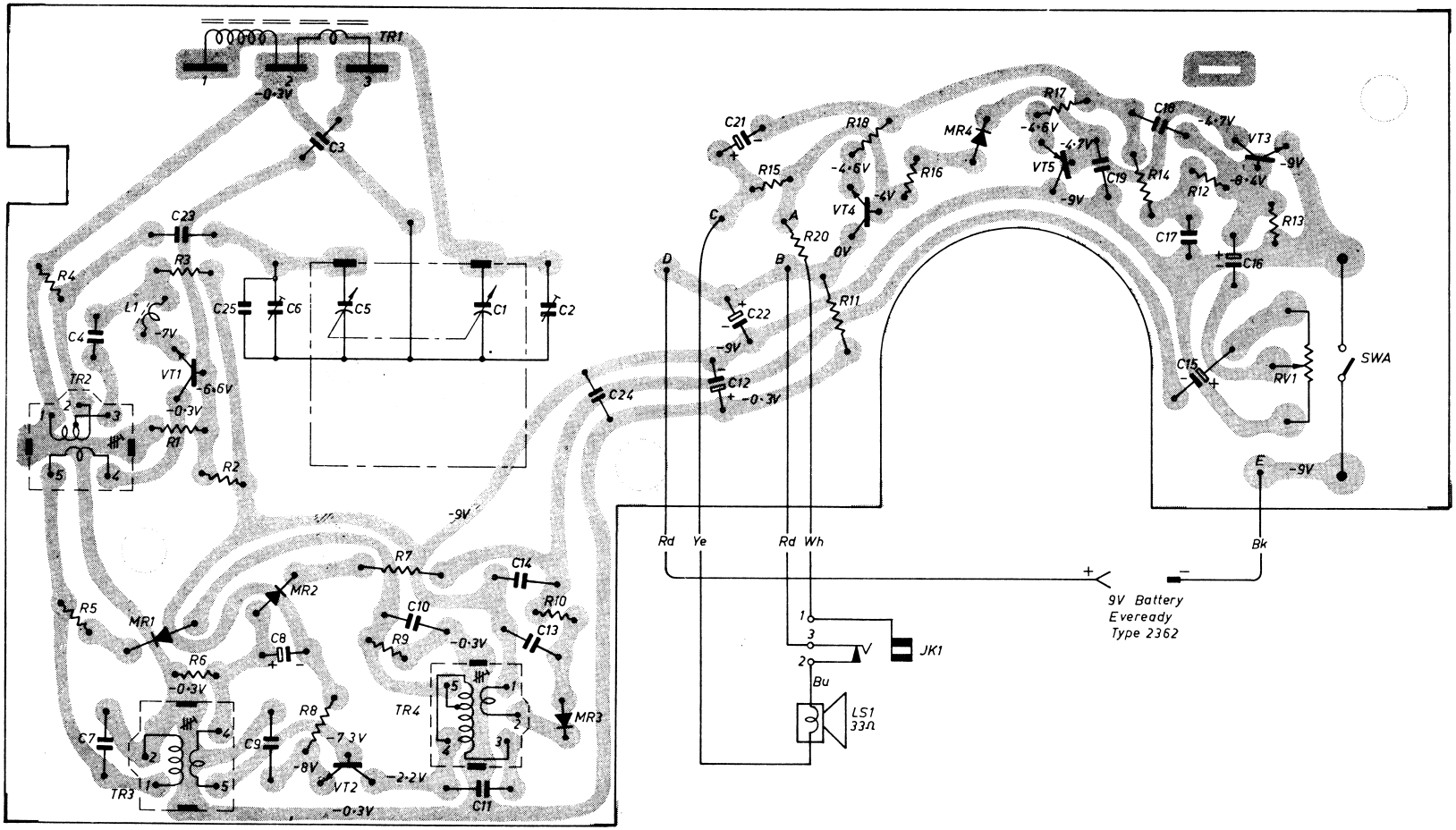
COMPONENT VIEW



BASE CONNECTIONS



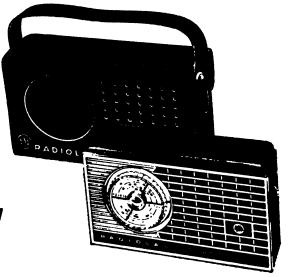
A.W.A. FIVE TRANSISTOR PORTABLE MODEL B67



Notes: The diagram represents the view from the wiring side of the printed board.
Stipple indicates the printed wiring.

All voltages shown are negative and are referred to the positive terminal of the battery. Voltages are measured with no signal input and volume maximum clockwise using a 20,000 ohm/volt meter.

RADIOLA
TRANSISTOR PORTABLE RADIOS
MODELS B67, B76 and B77



B67

GENERAL DESCRIPTION

Models B67, B76 and B77 are five transistor, battery operated superheterodyne portable receivers designed for the reception of the Medium Wave Broadcasting Band.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

Frequency Range ..... 525-1770 kHz
Intermediate Frequency ..... 455 kHz
Battery Complement ..... Eveready 2362 (9 Volt)
Idling Current ..... 9mA for zero audio output
Loudspeaker (2¾") 53386
Speaker V.C. Impedance ..... 33Ω at 400Hz
Controls:
Left hand — TUNING.
Right hand — ON/OFF, VOLUME.

Transistor and Diode Complement:

AS300 ..... Converter
AS302 ..... I.F. Amplifier
AS148 ..... Audio Amplifier
AS128 ..... Output
AS313 ..... Output
OA91 ..... Overload Diode
AS148 (Remove Emitter Lead) ..... A.G.C. Diode
OA90/IN87A ..... Detector Diode
AS9M ..... Compensating Diode

Dimensions:

Height ..... 3⅝" (9.2 cms)
Width ..... 6⅜" (16.2 cms)
Depth ..... 2" (5.1 cms)
Weight (includ. battery) ..... 1 lb. 4 oz. (567 grms)

Printed Board Removal:

Slacken off the rear retaining screw and remove the cabinet back.

Remove the tuning knob locking screw and tuning knob.

Remove the three board mounting screws.

The board assembly may now be lifted clear of the cabinet front, giving complete access for servicing.

Installation is the reverse of the above procedure.

When re-assembling, make sure that the gang spindle is concentric with the dial scale before tightening the board mounting screws. Clearance around these holes allows a slight amount of movement for correct positioning.

When replacing the tuning knob, turn the gang fully clockwise. Place the knob on the gang spindle and align the pointer across the arrow heads on the dial scale. Secure the knob in position with the locking screw without disturbing the pointer setting.

Switch the receiver "ON" and tune to a known station. The pointer should fall across the centre of the station markings. If it does not, loosen the locking screw, readjust the tuning knob to eliminate the error and retighten the locking screw.

ALIGNMENT TABLE

ORDER	CONNECT GENERATOR TO:	TUNE GENERATOR TO:	TUNE RECEIVER TO:	ADJUST FOR MAX. PEAK OUTPUT:
1	Aerial Section of Gang	455 kHz	Gang fully closed	Cores in TR3, TR4
Repeat adjustment until maximum output is obtained.				
2	Inductively coupled to Rod Aerial*	600 kHz	600 kHz	Osc. Core TR2 †
3	Inductively coupled to Rod Aerial*	1770 kHz	Gang fully open	Osc. Trimmer C6
4	Inductively coupled to Rod Aerial*	1500 kHz	1500 kHz	Aerial Trimmer C2

* A coil comprising 3 turns of 16 gauge D.C.C. wire about 12 inches in diameter should be connected between the output terminals of the generator, placed concentric with the rod aerial and distance not less than 1 foot from it.

† Rock the tuning control back and forth through the signal.