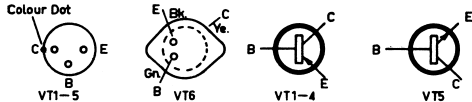
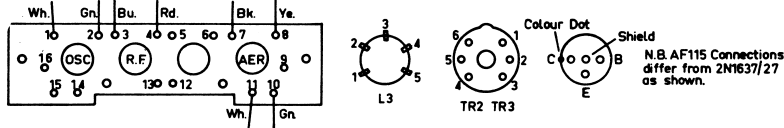


BASE CONNECTIONS



NOTES:-ARROWS ON POTENTIOMETERS INDICATE DIRECTION OF CLOCKWISE ROTATION.
ALL PLUGS VIEWED FROM PIN SIDE, SOCKETS FROM WIRING SIDE.
VOLTAGES MEASURED WITH NO SIGNAL INPUT WITH 20,000 OHM/VOLT METER.



C.R1099/12

CIRCUIT VARIATIONS

The above circuit is current as at 1/6/65. Below are the modifications that have been effected since initial production:—

To improve the A.G.C. performance on strong signals:

- (1) R1 was changed from 39K ohms to 68K ohms.
- (2) R6 was changed from 4.7K ohms to 10K ohms.
- (3) C17, connected to pin 2 of TR3, was changed from 150 pF to 68 pF and connected to pin 1 of TR3.

To improve stability:

- (4) R9, a 470 ohms resistor from VT2 collector to pin 1 of TR2 has been short circuited and C36 has been added.

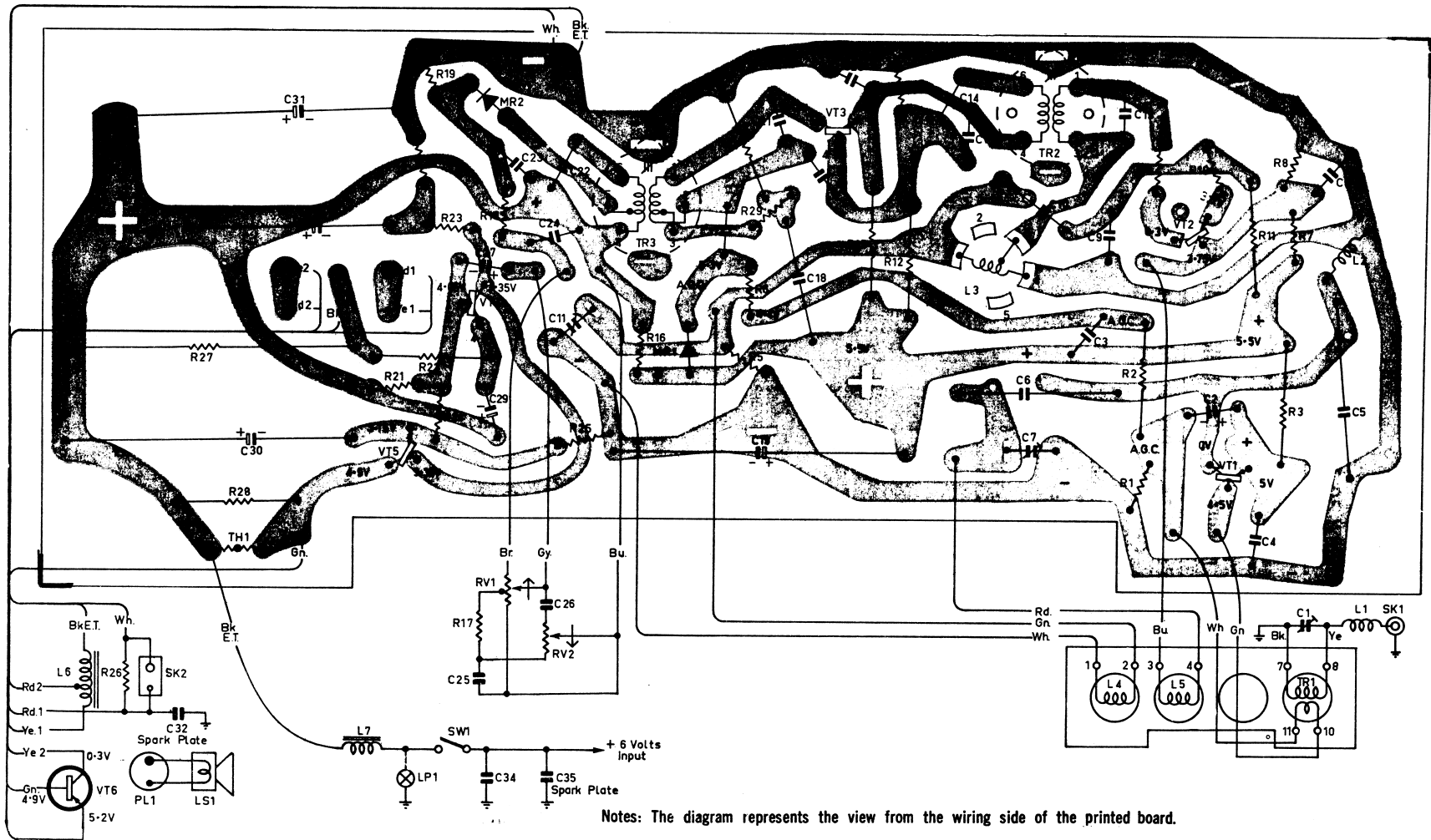
To overcome noisy volume controls:

- (5) R31 and C38 have been added and C25, the earth end of RV1 and the wiper arm of RV2, which were connected to the positive rail, are now connected to the emitter of VT4.

To increase bass boost in tone circuit:

- (6) R17 was changed from 2.2K ohms to 1.2K ohms.
- (7) C25 was changed from a 0.1μF to a 0.22μF.

NOTE: Changes 3, 4 and 5 are not shown on the printed board diagram below.



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

A.W.A.**ALL TRANSISTOR PRESSMATIC CAR RADIO****MODEL 957A AND 999A****(MODEL 999A CORRESPONDS TO VOLKSWAGEN VA236)**

ISSUED BY AMALGAMATED WIRELESS (AUSTRALASIA) LTD.

Warning: This receiver is for 6 volt negative earth operation only. Connection of wrong polarity will cause damage to the receiver.

GENERAL DESCRIPTION

This model is a six transistor permeability tuned superheterodyne car radio designed for the reception of the Medium Wave Band.

Features of design include—high gain i.f. transformers; 5 press-button tuning unit; low drift oscillator; printed board with excellent accessibility; high mechanical and electrical stability.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

| | |
|---|------------------------|
| Frequency Range | 525-1620 Kc/s |
| Intermediate Frequency | 455 Kc/s |
| Battery Voltage | 6 volts negative earth |
| Battery Consumption | 1.4 amps |
| Loudspeaker | 50064W 7" x 5" |
| V.C. Impedance | 15 ohms at 400 C.P.S. |
| Undistorted Power Output | 1.75 watts |
| Controls. Manual Tuning, Volume, Press-button Tuning (set of 5), Tone, Power. | |

Transistor and Diode Complement

| | |
|--------------------|-----------------|
| 2N1637/27 or AF115 | R.F. Amplifier |
| 2N1637/27 or AF115 | Converter |
| 2N1637/27 or AF115 | I.F. Amplifier |
| 2N408 | Audio Amplifier |
| 2N649 or AC127 | Driver (NPN) |
| 2N301 | Output |
| 1N87A | A.G.C. |
| 1N87A | Detector |

TWO SPEAKER OPERATION

The common practice of connecting a second speaker in parallel with the existing one can be tolerated in a receiver having a valve output stage.

Impedance matching is more important in a receiver having a transistor output stage and, in this case, any reduction in the correct loading of 15 ohms will result in considerable distortion.

If a second speaker is desired, it can be connected as shown in fig. 1, utilising a fader control.

For this purpose a special kit, No. 34787, is available comprising a 7" x 5" 15 ohm speaker, baffle and fader control unit.

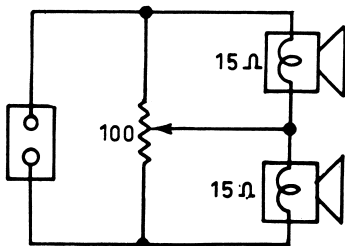


FIG. 1