## TECHNICAL INFORMATION AND SERVICE DATA

Issued by Amalgamated Wireless (Australasia) Limited



#### A.W.A.

# PORTABLE RECORD DLAYER

## Models B93 and B93Z

#### GENERAL DESCRIPTION

These models are AC operated, four transistor, four-speed record players. They will give monophonic reproduction of 7", 10" or 12" mono or stereo records.

The only variation in these models is the type of cartridge used; Model B93 uses a crystal type X3M or X5M and Model B93Z uses a ceramic type SC5M suitable for tropical conditions.

### ELECTRICAL AND

Power Output 1½ watts Power Supply 230-260 volts AC 50Hz Power Consumption (max.) 12 watts Loudspeaker, 6" x 4" 52867 Speaker V/C Impedance 15 ohm at 400Hz Controls Volume On/Off Tone Speed Selector	AS208 AS128 0A663 BY126/200 Dimensions:	Symmetry Output Compensating Diode
AS149 Input Stage AS157 (BC157) Input Stage Driver Stage	Width Depth Height Weight	10" (25.4 cms) 5" (12.7 cms)

#### SERVICE NOTES

To gain access to the chassis, proceed as follows:

Remove the front control knobs by pulling them straight off their spindles.

Remove the lid and make sure the pick-up arm is secured to its rest.

Place the record player face down and remove four screws exposed in the bottom of the case.

The case may now be lifted away from the motor board assembly to reveal the complete chassis for servicing.

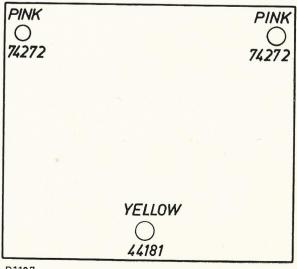
#### Spring Loaded Foot Replacement.

To accomplish this, the whole assembly, comprising foot spring and retaining clip must be replaced. It is essential that the correctly coloured springs, as shown in fig. 1, are replaced in their corresponding positions. The diagram is viewed from the underside of the cabinet case.

To replace a foot, first remove the cabinet case.

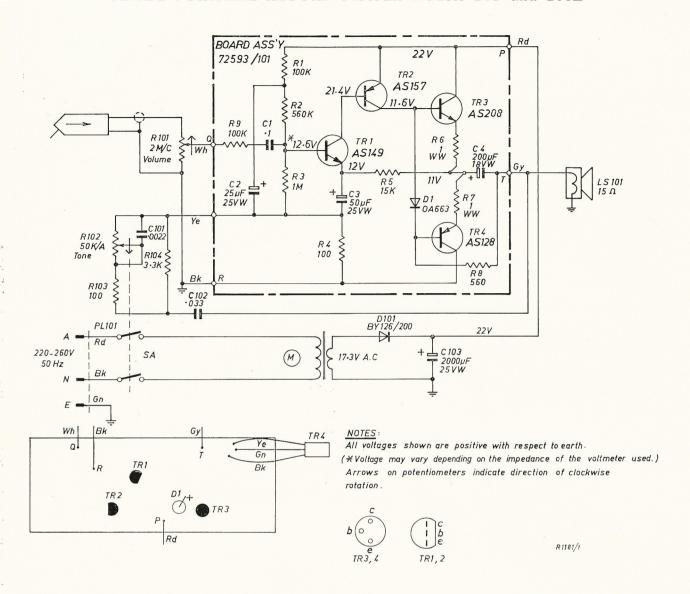
Mount the correct spring on the foot and push it through its mounting hole.

From inside the cabinet case push the retaining clip onto the foot until its teeth engage in the groove in the foot.



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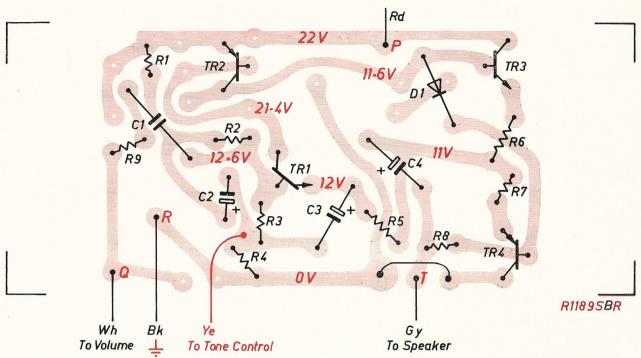
#### A.W.A. PORTABLE RECORD PLAYER Models B93 and B93Z



CODE	No. DESĈI	RIPTION	Part No.	CODE	No.	DESCRIPTION	V	PART No.
R1 R2 R3	resistors composition ty 100K ohms = 560K ohms = 1 Megohm =	$\pm$ 5% $\frac{1}{2}$ watt $\pm$ 10% $\frac{1}{2}$ watt $\pm$ 5% $\frac{1}{2}$ watt	stated	C3 C4 C101 C102 C103	$200\mu F + 10000000000000000000000000000000000$	—10% 25VW 0 —10% 18VW 10% 100VW p 0% 100VW po 25VW Elec	/ Electrolytic olyester lyester	229596 229763 229928
R4 R5 R6 R7 R8 R9 R101 R102 R103 R104	15K ohms = 1 ohm = 1 ohm = 560 ohms = 100K ohms = 2 Megohms curve 0 50K ohms curve A ca 100 ohms = 50K ohms	$\pm 10\%$ $\frac{1}{2}$ watt WW $\pm 10\%$ $\frac{1}{2}$ watt WW $\pm 10\%$ $\frac{1}{2}$ watt $\pm 5\%$ $\frac{1}{2}$ watt C carbon, Volume arbon, Tone W/S	623210	TR1 TR2 TR3 TR4 D1 D101	AS149 AS157, BC15 AS208 (with H AS128 OA663 BY126/200			
C1 C2	$\begin{array}{c} \text{CAPAG} \\ 0.1 \mu \text{F} & \pm 10\% & 100 \text{VW} \\ 25 \mu \text{F} & +100 &10\% \end{array}$	CITORS / polyester 25VW Electrolytic	229444			er, 6" x 4", 19 d Ass'y., C/W	5 Ω V/C	52867 72593/101 <b>726</b> 01

#### PRINTED BOARD LAYOUT

22V From Power Supply



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

Stipple indicates the printed circuit.

Black indicates components and leads mounted on the remote side of the board.

Red indicates components and leads mounted on wiring side of the board.

#### MECHANICAL REPLACEMENTS

Item	Part or Code No.	ltem P	art or Code No.
Case, Cabinet, Tango Red G.T. Gold Marine Blue Catch Ass'y., Button, White Clamp, Power Cable Clamp, Speaker Cable	67682/014 67682/016 64853/002 1221	Comprising Badge Fret Assembly Lid, Tango Red G.T. Gold Marine Blue Pivot	67685/002 67684/018 67684/021 67684/024 64851
Clip, Retaining, Tone Arm		Stay Trim, 74273	
Heat Sink (AS128)	64055	Motor Board, Printed, White	
Handle Assembly 64863 Comprising Handle Hinge, Left-hand	64864	Record Player, B93 Including Cartridge (Crystal) Stylus Replacement (Respectively)	X3M or X5N
Hinge, Right-hand Insulator, Power Switch	64865	Record Player, B93Z Including Cartridge (Ceramic)	
Knob, Control (2)		Stylus Replacement	
Knob, Speed Selector, White Coupled with — Packer Lid Assembly, Tango Red G.T. Gold Marine Blue		Suspension System Comprising Clip, Retaining (3) SCO/1868 Foot, Grey (3) Spring, Yellow (1) 44181 Spring, Pink (2) 74272	64846/003 798151