

RADIO CORPORATION PTY.

126-130 CRANT STREET, SOUTH MELBOURNE, S.C.4 DIVISION OF ELECTRONIC INDUSTRIES LTD.

TECHNICAL BULLETIN

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PORTABLE GRAMO-RADIO UNIT

MODEL - DML

MODIFICATIONS FOR STEREOPHONIC

with an additional amplifier/speaker unit for Stereophonic reproduction. Modifications have been made so that Hodel 'DML' may be used

- (A) ${
 m M505}$ which has a stereo cartridge in the head of the pick-The four speed, single record player unit part No. M468 been changed to a four speed, single record player part
- (B)The stereo cartridge left receiver audic amplifier (junction of circuit No. 26 and channel lead is wired to the
- 3 Circuit No. 26, a 1.2 megohn resistor is changed to a 560K ohm 10% W carbon resistor part No. R5642 to eliminate acoustic feedback (boom) when some records are being played.
- (E) The right channel lead from the stereo cartridge is wired cabinet. tc a socket located central on the rear of the plastic

amplifier/speaker unit is
socket at the rear of the The end of the input lead (lead approx. 18 ft) from the additional cabinet. inserted into the right channel outlet

The OM/OFF supply mains switch, tone control and volume control cn Model 'DML' function only on the Model 'DML'.

OPERATION FROM: FOR

-black - 230 & 240 Volt mains 200-240 Volt 40 or 50 Cycle AC. Mains (Power Transformer 1931) - green - 200 Volt meins Power trans. Primary Tap - red - common

cycle AC. supply main the transformer primary connections are as for the 240 volt supply mains but a 180 Ohm 10 Wett resistor Part No. R166 is to be mounted beneath the chassis and rired in the ပ္ပ When the receiver is to be operated from a 250 Volt 40 or power trans. common lead (red),

NOTE: 1

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The record player four speed drive pulley for 40 cycle mains operation is Part No. 846/524. α NOTE

CONSUMPTION PONB

40 Watts - approx. 60 Watts - approx. Radio Operation: Gramo Operation:

TUNING RANGE

535 - 1610 Kilocycles 560.7 - 186.3 Metres.

ALIGNMENT PROCEDURE,

7000 Ohes 50 Milliwetts	Max, vol. (fully	clockwise)	treble position (fully eleckwise)		455 Kc/s	•	230 Volts 50 cycle	AC. input to 230-	240V. pri. tap.		Radio position	ı	
<u>.</u>	• ••		10		••						a e		
Load Impedanc	Vol. Control		Tone Control	Invermediate	Frequency	Lapat,	Voltage:			Gramo/Radio	Switch		
modulated 400CPS.	0.01 MF Mica	capacitor. for	alignment,	200 MMF Mica	capacitor	Straight type	PM581 for b/cast	trim. adjustment.	Flexible type	48/712 for b/cast	osc. coil core and	IFT. core	adjustment
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Signal Generato Output Meter	Mica Capacitor			Dummy Antenna		Alignment Tool			Alignment Tool				
	ttor: modulated 400CPS. Load Impedance:	Load Impedance: Output Level : Vol. Control :	Load Impedance: Output Level : Vol. Control :	Load Impedance: Output Level: Vol. Control: Tone Control:	Load Impedance: Output Level: Vol. Control: Tone Control: (Invermediate)	Load Impedance: Output Level: Vol. Control: Tone Control: Invermediate Frequency:	Load Impedance: Output Level: Vol. Control: Tone Control: Informediate Frequency: Laput.	Load Impedance: Output Level: Vol. Control: Tone Control: (Informediate Frequency: Laput Voltage:	Load Impedance: Output Level: Vol. Control: Tone Control: Intermediate Frequency: Liput	Load Impedance: Output Level: Vol. Control: Tone Control: Intermediate Frequency: Liput	Load Impedance: Output Level: Vol. Control: Tone Control: Intermediate Frequency: Luput Voltage:	Load Impedance: Output Level: Vol. Control: Tone Control: (Informediate Frequency: Luput, Voltage: Gramo/Radio: Switch:	Load Impedance: Output Level: Vol. Control: Tone Control: Informediate Frequency Laput, Voltage: Gramo/Radio Switch

RADIO PLAYER MODEL-

€8E9 **7**/9 SW9 (LO89 SH89 POWER. TRANS. INDICATED AND CHASSIS WITH A DC. VACCUUM TUBE VOLT.
METER—230 V. 50 CYCLE AC. INPUT TO POWER TRANS
METER—230 V. 50 CYCLE AC. INPUT TO POWER TRANS
SHOWN WILL BE OBTAINED—IF A VITVAM. IS NOT USED—
DEPENDING ON THE RESISTANCE OF THE METER EG.
1000 A/VOLT OR 20,000 A/VOLT. 30E540K VOLTACES ON CIRCUIT ARE MEASURED BETWEEN POINTS 2•9k ∰ ş я∠•ŧ ₩ **7**Λ9 <u>676 89</u> ş∙sĸ ∰ **®** re422 Kc/8[.] LP 99 MODET-DM ₩2•I ₩*৻*₺∙.≩ 33 33 K ₩6.6 \$ \$ ر آه ****** €60• 0 (a) · 🍦 55K (\$8 €000K ŧ • (19) 1 † [2,40 [9 V005 001 (II) <u>@</u> (E) SISSVHO 192 \ \mathred{\pi} 3E 330 **(** 2 # ₩22•**ફ }** (6) 000 <u>†</u>∞2 [⑤ © 7 1 (1) V001

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IF. TRANSFORMER ALIGNMENT.

It is not necessary to remove the chassis from the cabinet to adjust the iron cores in the IF. transformers.

Make sure the pick-up arm is anchored to its rest pillar.

Place the cabinet on a table with the base of the cabinet uppermost.

Remove the four screws from the base of the cabinet, then lift base section of cabinet upward on the hinges.

Turn tuning drum until tuning condenser plates are fully out of mesh. Leave grid wire attached to valve socket. Peak 1st. IF. trans. pri. and sec. iron cores for max. output.	O.OLIF Mica capacitor in series with generator	455 Kc/s	To signal grid of GBE6 converter valve (pin No.7.)	N.
Turn gramo-radio switch to radio position. Leave grid wire attached to valve socket Peak 2nd IF. trans. pri. and sec. iron cores for max. output.	O.OINF Mica capacitor in series with generator	455 Kc/s	To signal grid of 6BH5 valve (pin No.2.)	⊢
Instructions	Dummy Antenna	Generator Frequency	Oper-Generator ation Connection	Oper-

DIAL DRUM SETTING:

dial reading aperture. The dial reading drum is adjusted by loosening the screw in the bush of the drum. Fully mesh the condenser gang plates. Set the centre of the end of travel spot near 535 Kc/s on dial reading to align with the indicator line across

BROADCAST ALIGNMENT.

							aerial	of rod	connection	To AVC.
										600 Kc/s
ත් ස							generator	series with	capacitor in	200 M/正
be a	۔	_	**	_	_		 	_	_	. 7

signal or more the dial drum off the 600 Kc/s dial mark sec. trimmer coil on ferrite alignment spot at 600 Kc/s d rod aerial trim. coil have until after the ind. trim. Do not rock thecond. gang rod aerial for max. output. position, peak osc. coil ind. trim (iron core) and on dial reading aligns with Turn tuning drum until en peaked for max. output. to and fro through the indicator line of aperture Leave cond. gang set in this

LUG VIEW OF COIL

Generator Generator Durmy Connection Frequency Antenna To AVC. 1400 Kc/s 200 MFF connection in scries aerial with generator Tuning range after alignment 535 - 16 Close base section of cabinet and sec	Circuit	5 1	4.	Q	No.
Generator Durmy Frequency Antenna Instructions 1400 Kc/s 200 MFF Turn tuning (capacitor ment spot at in scries reading alignerator coil trim. or trim. cond. Repeat operator spect operator alignment 535 - 1610 Kc/s. section of cabinet and secure with the other spect operator of cabinet and secure with the other specific sp		Close base	Tuning rang		8 2
Antenna Instructions 200 MFF Turn tuning (capacitor ment spot at in scries reading alig with line of aper generator coil trim. oo trim. oond. Repeat opera gnment 535 - 1610 Ke/s. abinet and secure with the	ption	section of o	ge after alig		Generator Frequency 1400 Kc/s
Thrn tuning of ment spot at reading alignine of aper coil trim. oond. Repeat opera 1610 Ke/s. ecure with the		abinet and s	gnment 535 -		Antenna 200 MF capacitor in scries with generator
	To1+	ecure with the	1610 Kc/s.	Repeat operations 1 and 2	Turn tuning drum intil align- ment spot at 1400 Ko/s on dial reading aligns with indicator line of aperture. Adjust osc. coil trim. cond. and rod. aerial trim. sond. for max. output.

