

ECLIPSE RADIO PTY. LTD.

(A DIVISION OF PLECTRONIC INDUSTRIES LTD.)

11-21 STURT STREET, SOUTH MELBOURNE TECHNICAL BULLETIN

BULLETIN: BJP-1.

File: Receivers A.C.

Date: 8/8/50.

SUBJECT

5 TUBE DUAL WAVE SUPERHETERODYNE RADIO PHONOGRAPH WITH AUTOMATIC RECORD CHANGING UNIT

For Operation from:

200-250 Volt 50 cycle A.C. Mains

This Bulletin contains:

- 1. Technical Specifications
- 2. General Description
- 3. Transport
- 4. Operating Instructions
- 5. Mains Voltage adjustment and 40 cycle operation
- 6. Alignment Procedure
- 7. Voltage Table
 - 8. Circuit Diagram
 - 9. Component Parts List
- 10. Coil & I.F. Transformer Connections

TECHNICAL SPECIFICATIONS-MODEL "BJP"

Tube Complement: Type 6J8G Converter

" 6U7G I.F. Amplifier

" 6B6G Diode Detector AVC 1st Audio

" 6V6GT Power Output Amplifier

" 5Y3GT Full Wave Rectifier

Intermediate Frequency: 455 Kc/s.

Tuning Range: Broadcast - 535-1,640 Kilocycles, 560 - 182.9 Metres

Shortwave - 5.8-18.5 Megacycles, 50 - 16 Metres

Calibration: Straight Line Frequency

Power Consumption: Radio Operation: - 55 Watts (approx.)

Gramo Operation: - 75 Watts (approx.)

GENERAL DESCRIPTION

The Model "BJP" is a 5 tube dual wave Superheterodyne Radio-Phonograph receiver, designed for operation from the 200 - 250 volt 50 cycle A.C. mains and when suitable adjustments are made (see Page 6) from the 200 - 260 volt 40 cycle A.C. mains.

The receiver is housed in a walnut cabinet of the type which reveals the dial only when the receiver drawer is pulled forward. The control knobs are used to open and close the drawer and are therefore situated on the front and may be adjusted while the drawer closed.

The record changing unit is situated below the receiver drawer, and is revealed when the front panel is pulled forward.

Continuously variable tone control is oblained by use of selective inverse feedback wich is applied to a tapping on the volume control, producing also tone compensation at low listening levels. Rotation of the tone control in an anti-clockwise direction produces bass lift, and in a clockwise direction, bass cut. The centre wide-range position is used for normal listening under good conditions.

Further explanation of the circuit other than is given by the list of tube functions and the circuit diagram itself seems unnecessary since usual good practice is followed throughout.

TRANSPORT

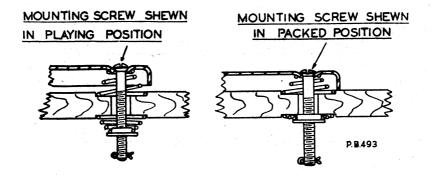
During transport from the factory the drawer is locked by two wood screws inserted from the rear of the cabinet near the top and in the centre. Another wood screw inserted from the rear of the cabinet and located about the centre back of the cabinet, holds the record changer sliding compartment in position.

The above screws should always be re-inserted and screwed tightly when the unit is being transported.

Three serews placed around the top side edge of the record changer metal base plate are screwed up tight to hold the changer in its mounted position when the unit is being transported -- refer diagram.

When operating the changer, the above three screws are to be loosened off as follows:--

> Place a stack of eight 12 in. records on the record spindle and loosen off the three screws so that there is approx. $\frac{1}{4}$ in. clearance between the changer base plate bottom edge and the top of the motor board on which the changer is mounted. This is to allow the record changer unit to "float" on its spring suspension to eliminate acoustic feedback.



OPERATING INSTRUCTIONS (Radio)

Radio Phonograph & Wave Change Switch:

Position 1. Fully Anti-clockwise: Broadcast Band.

Position 2. Centre: Shortwave Band.

Position 3. Clockwise: Phonograph Operation.

Tone Control:

Adjustment of this control gives the operator a choice of response from bass to treble, with wide range response at 50% rotation of the tone control knob from either the bass or treble end.

Volume Control/Switch:

This control combines the functions of switching the receiver on or off and of varying the level of volume. Rotation in a clockwise direction switches the receiver on and increases the volume.

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Operating Instructions:

Connect mains cord to power point, switch on, and allow a few moments for the valves to heat up. Turn volume control about halfway to the right. Tune in the station desired to a position where the background noise is at a minimum, re-adjust volume and tone controls to suit. It is important that the station be accurately tuned, otherwise the tone will be impaired.

TONE	VOLUME	RADIO-GRAMO	TUNING	
BASS TREBLE		B/C S/W GRAMO		

RECORD CHANGER OPERATING INSTRUCTIONS

Turn gramo-radio switch to gramo position.

Controls: The volume and tone controls function on gramo operation in exactly the same manner as on radio operation.

1. NEEDLE: Securely fix a needle in the pick-up head by means of the clamping screw. The needle may be of the permanent "sapphire" point type, but in any case should be of a type which will play at least eight records without need of replacement. When a needle has been used once, slight flats develop on the needle point, therefore do not alter its position until replacing. The pick-up is muted in its rest position so that you cannot tell if the amplifier is "live" by touching the needle point with your finger. This overcomes unpleasant noises when changing a needle and "plop" when the needle first contacts the record.

To avoid damage to the changer mechanism, DO NOT restrain the movement of the pick-p by hand when the pick-up is being moved by the automatic mechanism.

2. LOADING RECORDS ON SPINDLE: The record changer will play either eight 10 in. or eight 12 in. Australian records, not intermixed. Set the small selector knob on the right-hand side escutcheon plate to the 10 in. or 12 in. position, according to the size of the records it is desired to play.

Records are loaded by swinging over the record balancing arm to its extreme right—hand position and placing the required number up to a maximum of eight on the spindle. The record balancing arm should then be moved over to its position touching the spindle over the records, as illustrated.

TO START: Lift the pick-up slightly off its rest pillar and move it in 3. an outward direction, and then release. This causes the turntable to revolve and the record dropping cycle to commence.

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- TO REJECT any record whilst playing, push the left-hand knob on the escutcheon plate up to the "REJECT" position until a click is heard. The record will be immediately rejected and the next one released from the stack.
- TO STOP the changer, move the left-hand knob on the escutcheon plate 5. to the position marked "STOP". It must be emphasized that when the machine is stopped, the pick-up will remain on the record and it should always be lifted from the record and placed on its rest pillar. Should the changer be switched off when the pick-up is being moved by the automatic mechanism, do not touch the pick-up, switch the changer on again and wait till the pick-up lowers on to the record, then switch off and move the pick-up to its rest pillar.
- TO UNLOAD RECORDS after they have been played, place the pick-up on 6. its rest pillar, move the record balancing arm to its extreme righthand position and lift the record stack straight up and off the spindle.
- 7. TO REPEAT: If desired, one record may be repeated any number of times automatically by leaving the record balancing arm in its extreme right-hand position over the pick-up rest pillar. The record is placed on the turntable by tilting it downwards when passing it over the spindle step. The changer is then operated in the normal way.
- RECORDS: Do not use badly warped records or records with imperfect and badly worn centre holes: they may not drop and the pick-up would lower on to the turntable felt; also, badly warped records will give trouble by slipping during playing.
- Care should be taken when storing records to prevent contact with dirt and dust, which sets up abrasive action and causes rapid wear. Always brush records with a soft brush or lint-free cloth before using.
- NOTE:-Service instructions for the record changing unit will be found in Bulletins MR-2 and MR-3. Transport and operating instructions herein, deal with the Collaro RC500 Record Changing Unit. Some units may be fitted with Garrard RC70A Record Changer, in which case reference may be made to Bulletin MR-1.

SUBJECT:

Instructions for Removing Receiver

from Cabinet-Model BJP.

- 1. Disconnect the receiver from the mains.
- 2. Open the phonograph compartment, and withdraw from their respective sockets on the chassis, the speaker and pick-up plugs. Disconnect the receiver mains cable at the junction block on the left-hand inner cabinet wall.
- 3. Locate the two wooden blocks, one on each of the rails upon which the drawer slides, and rotate them backward until the drawer will slide forward past them. The drawer, with the receiver attached, may then be withdrawn through the front of the cabinet.

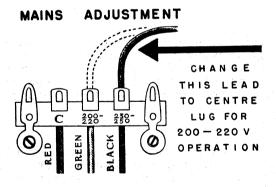
 Refitting is carried out in the reverse manner.

Mains voltage, adjustment for 200-220V. Operation:

Receivers are shipped from the factory adjusted for operation from the 200-220 volt mains. To adjust the receiver for voltages below 220V proceed as follows-

Disconnect the receiver from the mains.

Remove the chassis from the cabinet in accordance with the above instructions and locate the mains junction ship. Unsolder the lead which is connected to the 230-250 volt lug and resolder it to the 200-220 volt lug as shown in the diagram below.



Adjustments for 40 cycle operation:

All receivers shipped to Western Australia are adjusted at the factory for operation from the 40 cycle 260 volt A.C. Mains. If it is desired to modify a receiver which is adjusted for 50 cycle operation, so that it can be used in Western Australia, the following changes are to be made—

- 1. Replace the power transformer PT807 with 40 cycle 260V power transformer, Part No. PT809.
- 2. Garrard, Type RC.70A. Record Changing Unit:
 Replace the existing brass pulley on the motor driving spindle to
 pulley, Eclipse Part No. 75/524.

Collaro, Type RC500 Record Changing Unit:

Replace the existing brass pulley on the motor driving spindle to pulley, Eclipse Part No. 70/524.

ALIGNMENT PROCEDURE-Model BJP

Equipment: - Signal Generator.

Output Meter.

Alignment Tool. M195 and PM581.

Mica Capacitor: .OlMFD. (I.F.T. Alignment).
Dummy Antenna: 200MMFD. Mica Capacitor.
Dummy Antenna: 400 ohm Non-Inductive Resistor.

Alignment Conditions:-

Load Impedance 5,000 Ohms. Output Level 50 Milliwatts. Volume Control Full on (clockwise). Tone Control Treble Tone Position.

Dial Pointer Setting: Set the centre of the dial pointer on the end of travel mark on the dial calibration near 550 Kc/s. Condenser gang plates fully meshed.

Alignment:- Intermediate Frequency 455 Kc/s.

Operation	Generator Connection	Frequency	Dummy Antenna	Instructions
	TURN WAVE	CHANGE SWIT	'CH TO BROADCOA	ST POSITION
1. To	o control grid of 6U7G.	455 Mc/s.	.OlMFD. mica capacitor in series with generator.	Leave grid cap on tube. Gang plates full out. Peak 2nd IF. trans. primary and secondary.
2. T	o control grid of 6J8G tube	455 Kc/s.	.OlMFD. mica capacitor in series with generator.	Leave grid cap on tube. Gang plates full out. Peak 1st IF. trans. primary and secondary.
3. T	o antenna terminal.	600 Kc/s.	200MMFD. mica capacitor in series with generator.	Turn gang and dial poin- ter to 600 Kc/s. Peak B/C. oscl. coil induct- ance trimmer (iron core) for max. output. Rock the cond. gang to and fro through the signal while adjusting.
4. T	o antenna terminal	1400 Kc/s.	200MFD. mica capacitor in series with generator.	Turn gang and dial pointer to 1400 Kc/s. Adjust B/C. oscl. coil trimmer for logging and peak B/C. antenna trans. trimmer for max. output.

- Repeat operations Nos. 3 and 4. 5.
 - TURN WAVE CHANGE SWITCH TO SHORT WAVE POSITION

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Operati	on Generator Connection	Frequency	Dummy Antenna	Instructions
6.	terminal	16 Mc/s.	inductive re- g sistor in S series with 1	Turn dial pointer and ang to 16 Mc/s. Adjust /wave oscl. trimmer for ogging and peak S/wave ntenna trans. trimmer.
	To antenna terminal	7 Mc/s.	inductive re- t	urn gang and dial poin- er to 7 Mc/s. and check racking.

SUBJECT-Voltage Table-Model BJP

Equipment:-

DC Volt Meter; 1,000 Ohm/volt meter with 0-10, 0-250 and 0-500 volt scales.

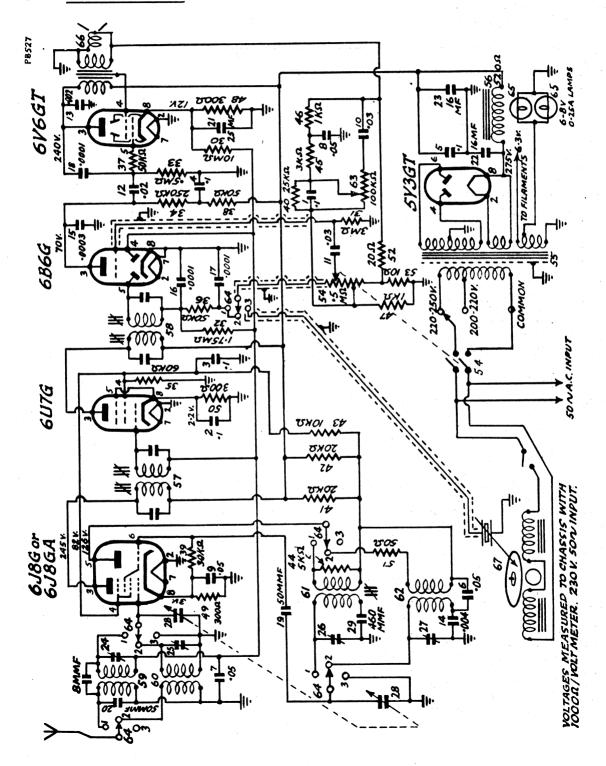
AC Volt Meter: 0-10, 0-250 and 0-500 volt scales.

Conditions of Test:-

230 volts 50 cycles AC. input to 220-250 volt primary tap. tuned to 1,000 Kc/s., volume control full on, no signal. Heater voltages measured across heater contacts of tube sockets. All other voltages measured from tube socket contacts to chassis.

	<u> </u>	The Asset City and	
Tube	Heater	Plate	Screen Cathode Oscl. Plate.
	nakan na manakan basasa. Na manakan na manakan		
6J8GA	6.3V.	245V.	82V. 3.0V. 126V.
6U7G	6.3V.	245V.	82V. 2.2V.
6B6G	6.3V.	70V.	
6V6GT	6.3V.	240V.	245V. 12V.
5Y3GT	5 v .	275/275V.	RMS. The initial surge voltage across the first electrolytic (circuit No. 32.) is 370 volts dropping to normal operating value of 275 volts. DC. voltage drop across filter choke is 30 volts.

Subject-Circuit Diagram Model BJP.



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SUBJECT-Component Parts List-Model BJP

Circuit No.	Part Name	Tol±	Rating	Part No.
1.	.lMFD. Paper Condenser	20%	200V.DCW.	PC218
2.	.1MFD. Paper Condenser	20%	200V.DCW.	PC218
ž.	.1MFD. Paper Condenser	20%	400V.DCW.	PC103
4.	.1MFD. Paper Condenser	20%	400V.DCW.	PC103
5.	.1MFD. Paper Condenser	20%	400V.DCW.	PC103
6.	.05MFD. Paper Condenser	20%	200V.DCW.	PC102
7.	.05MFD. Paper Condenser	20%	200V.DCW.	PC102
8.	.05MFD. Paper Condenser	20%	200V.DCW.	PC102
9.	.05MFD. Paper Condenser	20%	200V.DCW.	PC102
10.	.03MFD. Paper Condenser	20%	200V.DCW.	PC303
11.	.03MFD. Paper Condenser	20%	200V.DCW.	PC303
12.	.02MFD. Paper Condenser	20%	400V.DCW.	PClll
13.	.002MFD. Paper Condenser	20%	600V.DCW.	PC112
14.	.004MFD. Mica Condenser	5 %	1000VT.	PC299
15.	.0003MFD. Mica Condenser	10%	1000VT.	PC568
16.	.0001MFD. Mica Condenser	10%	1000VT.	PC571
17.	.0001MFD. Mica Condenser	10%	1000VT.	PC571
18.	.0001MFD. Mica Condenser	10%	1000VT.	PC571
19.	.00005MFD. Mica Condenser	10%	1000VT.	PC572
20.	.00005MFD. Mica Condenser	10%	1000VT.	PC572
21.	25MFD. (20%	40VP.)	
22.	16MFD. Combination Electrolyti			
22.	Condenser	20%	525VP.	PC760
23.	16MFD.	20%	525VP.	
24.	Trimmer Condenser (B/Cast) Ant	Trans.)		
25.	Trimmer Condenser (S/wave) Ant Trimmer Ass.	Trans.)		PC658
26.	Trimmer Cond., Wire Wound (B/ca	st.		
20.	Osc. Trans.)		0-30MMFD.	PC663
27.	Trimmer Cond., Wire Wound (S/wa	ve.	0 001	
21.	Osc. Trans.		0-30MFD.	PC663
28.	2 Gang Variable Condenser with	gears.		PC752
29.	460MMFD. Mica Condenser	$2\frac{1}{2}\%$	1000VT.	PC728
30.	10 Megohm Carbon Resistor	ĨÕ%	l watt	PR236
31.	3 Megohm Carbon Resistor	10%	₽ Watt	PR282
32.	1.75 Megohm Carbon Resistor	10%	🧸 watt	PR248
33.	500,000 Ohm Carbon Resistor	10%	र्हे Watt हे watt हे Watt 1 Watt	PR245
34.	250,000 Ohm Carbon Resistor	10%	ĺ Watt	PR496
35.	60,000 Ohm Carbon Resistor	10%	1 Watt	PR415
36.	50,000 Ohm Carbon Resistor	10%		PR160
37.	50,000 Ohm Carbon Resistor	10%	½ watt	PR160
38.	50,000 Ohm Carbon Resistor	10%	ľ watt	PR115
39.	30,000 Ohm Carbon Resistor	10%	₹ watt	PR151
40.	25,000 Ohm Carbon Resistor	10%	يًّ watt	PR155
41.	20,000 Ohm Carbon Resistor	10%	vatt 1 watt	PR171
42.	20,000 Ohm Carbon Resistor	10%	1 watt	PR171
43.	10,000 Ohm Carbon Resistor	10%	1 watt	PR325
44.	5,000 Ohm Carbon Resistor	10%	🛓 watt	PR250
45.	3,000 Ohm Carbon Resistor	10%	$rac{ ilde{1}}{2}$ watt	PR185
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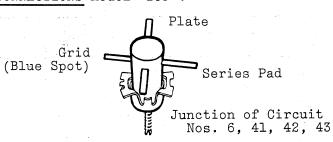
SUBJECT-Component Parts List:-Model BJP

No. No. Act No. No. Act No. No.					
47. 1,000 Ohm Carbon Resistor 10% 1 watt PR252 48. 300 Ohm Wire Wound Resistor 10% 1 watt PR122 49. 300 Ohm Wire Wound Resistor 10% 1 watt PR258 50. 300 Ohm Carbon Resistor 10% 2 watt PR258 51. 50 Ohm Wire Wound Resistor 10% 2 watt PR280 52. 20 Ohm Wire Wound Resistor 10% 2 watt PR280 53. 10 Ohm Wire Wound Resistor 10% 2 watt PR281 53. 10 Ohm Wire Wound Resistor 10% 2 watt PR553 545 Megohm Volume Control with DP.ST. Switch DP.ST. Transformer (200-250 Volt (40 cycle Mains) PT867 (50 cycle Mains) PT867 (Fower Transformer (200-260 Volt (40 cycle Mains) PT868 55. lst IF. Transformer (B/cast) PT869 56. Filter Choke 14H-60MA. PT869 57. lst IF. Transformer (B/cast) PT869 58. 2nd IF. Transformer (B/cast) PT869 59. Antenna Transformer (B/cast) PT869 60. Antenna Transformer (B/cast) PT860 61. Oscillator Transformer (S/wave) PT860 62. Oscillator Transformer (S/wave) PT860 63. Tone Control PR663 64. Wave Change/Phonograph Switch Speaker. 12 inch. Permag. 5,000 Ohm Transf. Kl36 67. Phonograph Unit Type 6J8G Tube Tube Shield Earth Contact Dail Cond 6ft. Rhob & Shaft (3) Rhob & Shaft (No.	Part Name	Tol±	Rating	Part No.
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DP.ST. Switch 200% PR662		50 Ohm Wire Wound Resistor	10%	î watt	
DP.ST. Switch 200 PR662			10%	1 watt	PR231
DP.ST. Switch 200 PR662			10%	1 watt	
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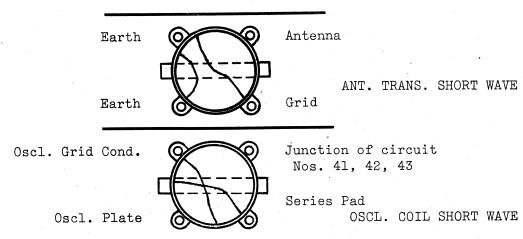
SUBJECT Coil and IF. TRANSFORMER CONNECTIONS-Model "BJP".

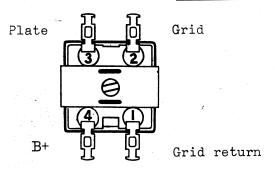


ANT. TRANS. BROADCAST

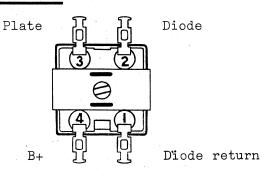


OSCL. COIL BROADCAST

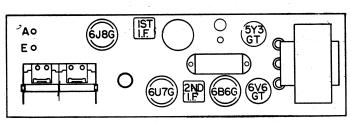




1st I.F. TRANS.



2nd I.F. TRANS.



VALVE PLACEMENT DIAGRAM.

484/279