

ECLIPSE RADIO PTY. LTD.

(A DIVISION OF ELECTRONIC INDUSTRIES LTD.)

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TECHNICAL BULLETIN

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File : Receivers A.C.

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SUBJECT-

Collaro RC500 Record Changer

Service Instructions



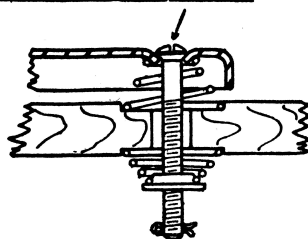
TRANSPORT:

Three screws 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.

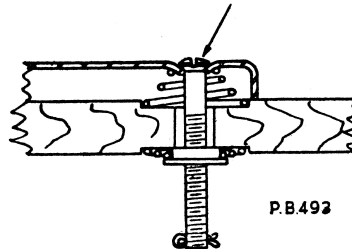
When operating the changer, the above three screws are to be loosened off as follows:

Place a stack of eight 12-inch records on the record spindle and loosen off the three screws so that there is approx. $\frac{1}{4}$ -inch 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.

MOUNTING SCREW SHEWN
IN PLAYING POSITION



MOUNTING SCREW SHEWN
IN PACKED POSITION



PB.492

OPERATING INSTRUCTIONS.

Turn gramophone switch to gramophone position.

Controls: The volume and tone controls function on gramophone 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-up 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-inch or eight 12-inch Australian records, not intermixed. Set the small selector knob on the right-hand side escutcheon plate to the 10-inch or 12-inch position, according to the size of the record 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.
3. TO START: Lift the pick-up slightly off its rest pillar and move it in an outward direction, and then release. This causes the turntable to revolve and the record dropping cycle to commence.
4. 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.
5. TO STOP the changer, move the left-hand knob on the escutcheon plate 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.
6. TO UNLOAD RECORDS after they have been played, place the pick-up on its rest pillar, move the record balancing arm to its extreme right-hand 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.

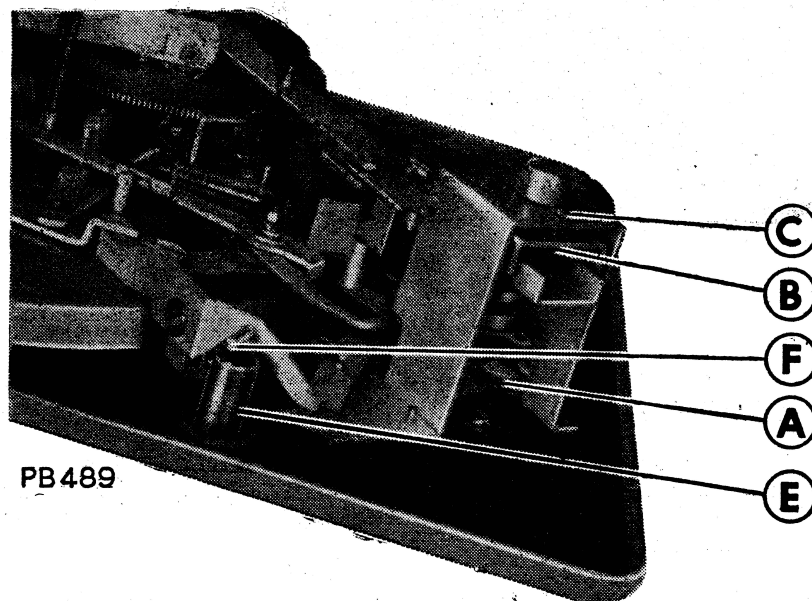
Care should be taken when storing records to prevent contact with dirt and dust, which sets up abrasive action and causes rapid wear. Always brush records with a soft brush or lint-free cloth before using.

SERVICE INSTRUCTIONS:

PICKUP POSITIONING.

This adjustment should not be necessary, but in the event of the positioning requiring adjustment, the machine should be switched on to the 10" position and started up in the normal manner. When the pickup is dropped to within 1/16" of the level of the record, the turntable should be stopped by hand and the current switched off at the mains plug. The clamp nut fitted to pickup operating lever A (Fig. 1) should be slackened and the pickup moved to the extreme right, then dropped into its normal running position until the needle is over the run-in groove at a radius of $4\frac{3}{4}$ " from the centre of the spindle. The clamp nut should then be tightened.

FIG. 1.



PICKUP HEIGHT ADJUSTMENT.

If the height of the pickup lift has ever to be adjusted, then nut B (Fig. 1) should be slackened and screw C (Fig. 1) adjusted as required. Turning screw C in a clockwise direction raises the pickup—and turning it in an anti-clockwise direction, lowers the pickup. Nut B should then be re-tightened.

MOTOR.

No maintenance of the motor is necessary, but in the event of the supply frequency being changed the motor pulley must be changed accord-

ingly. The simplest method of doing this is to undo the three nuts D (Fig. 2) and remove motor from the underside of the unit plate. The appropriate pulley, whether for 40, 50 or 60 cycles supply should then be fitted and the motor replaced. The three nuts D should then be replaced and tightened to their stops.

FIG. 2.

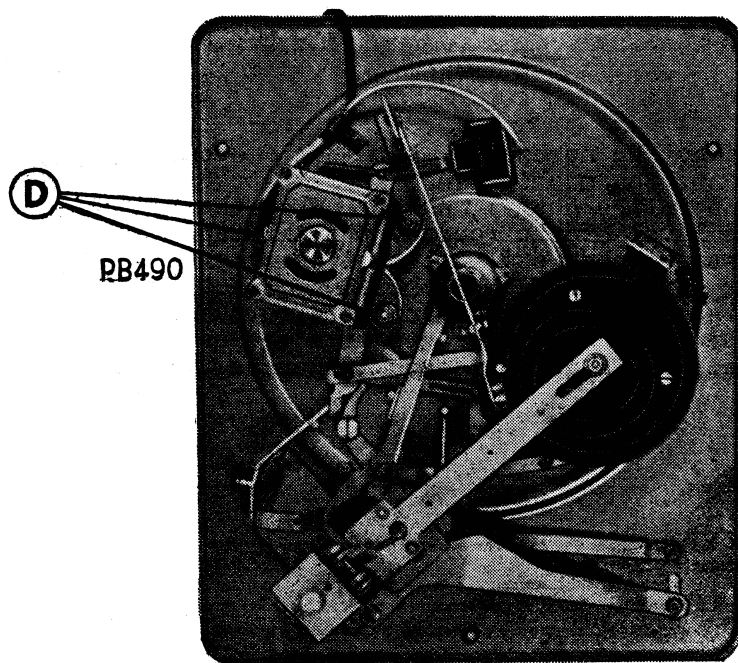
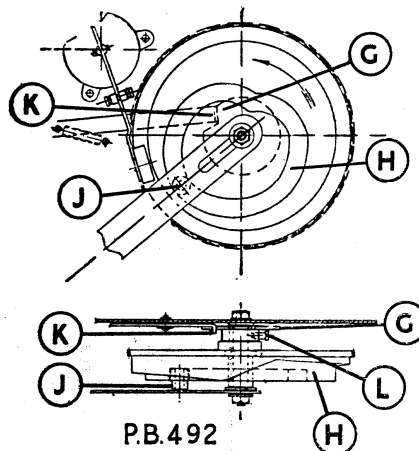


FIG. 3.



SWITCHING OFF.

In the event of the machine failing to switch off after the last record has been played, it may be due to one of the following reasons:-

1. The balancing arm spindle E (Fig. 1) is not falling to its full extent and making contact with the pin F (Fig. 1). This will be due to the balancing spindle sticking in its housing, and this should be freed.
2. The anti-jamming cam G (Fig. 3) may have slipped and should be re-set in correct relationship to the main cam H (Fig. 3). The method for adjustment is as follows:-

The screw L on the cam G should be unscrewed. With roller J (Fig. 3) at peak of cam track as shown at Fig. 3, the face of slide K should be set in contact with the face of the cam G as shown in the diagram. Screw L should then be re-tightened.