

# PHILIPS RADIOPLAYER

## MODEL 6736

FOR BROADCAST AND WORLD-WIDE RECEPTION AND RECORD REPRODUCTION.

The chassis of this Radioplayer is identical to the model 6702, with the exception of certain mechanical modifications, and this sheet should, therefore, be studied in conjunction with the Service Data issued for the 6702.

### DISMANTLING THE SET.

Before removing the nuts and wood-screws holding chassis to cabinet it is necessary to release the tuning indicator from the holder. Unscrew the back cover and slide back along connecting wires. The two screws which hold the socket in place are then removed, allowing the socket and indicator to slide from the holder. The following operations should also be carried out:

- (1) Disconnect pick-up wiring from pick-up terminals.
- (2) Disconnect motor earth lead from earth terminal on chassis.
- (3) Disconnect mains lead from motor at terminals provided under turntable. These terminals are covered with a bakelite shield.

### ACTION AND ADJUSTMENT OF AUTOMATIC STOP.

The automatic stop mechanism is located under the turntable, which is removed by lifting upwards. No adjustments should be made until the following instructions have been carefully studied.

When a record is playing the pick-up arm moves towards the centre of the record and moves the **Friction Plate A**, which also carries by means of the **friction pad** and **springs** the **Main Lever B** and **Trip Lever C** (see diagram). The **main lever** moves towards the spindle carrying the **striker**, which gently wipes against the rubber bush on **Trip Lever C** at each revolution, thus tapping back the **Main Lever B**. This continues until the needle reaches the "run in" groove in centre of record, when the **trip lever** is moved forward into the path of the **striker**, which can now strike the side of the lever and trip the stop mechanism and automatic switch. If stop fails to operate at finish of record the cause is probably insufficient friction between levers A and B. The friction may be increased by screwing the **friction screw** in lever B slowly **outwards** (anti-clockwise). If stop operates before record is finished the trouble may be excessive

friction or a worn rubber bush on trip lever. Friction can be reduced by screwing **friction screw down** (clockwise). The adjustment of the friction screw is **critical** and the screw should only be moved through a **quarter turn** at a time. Excessive friction may also show up as a knocking noise. If rubber bush is worn this may be turned round on its pin to expose a new face to the striker or replaced with a new bush.

Should the leather **brake pad** be adjusted at any time it is important to see that the switch breaks contact before turntable is stopped by the pad.

It is important when making automatic stop adjustments to let the pick up run through a record in the normal way as the stop will operate ahead of the adjustment if moved by hand.

### TO REMOVE MOTOR.

The motor and tone arm are mounted on a metal plate which is fixed to the cabinet shelf by means of wood screws. To remove motor proceed as follows after removing turntable:—

- (1) Disconnect mains lead from under bakelite shield which is released by unscrewing lock nut. Check voltage positions when refitting.
- (2) Disconnect earth lead from motor frame (from back portion of cabinet).
- (3) Disconnect pick-up leads from connection plate inside back portion of cabinet.
- (4) Unscrew regulator scale from wooden shelf.
- (5) Remove wood screws and lift motor from cabinet.

When handling motor unit take great care to see that the various parts of the automatic stop mechanism are not subject to any knocks or strain.

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## TO REMOVE PICK-UP HEAD.

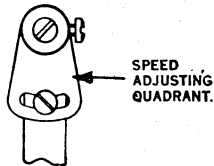
Since the pick-up tone arm is mounted on the metal plate with the motor, proceed as outlined above and first remove complete motor unit. If the pick-up head only is to be repaired, it can now be released from the tone arm by unscrewing the screw located under tone arm and unsoldering the leads. To reach the coil of the pick-up the bakelite case can be opened by removing the screws on each side of the needle aperture and the screw on top of the head.

## CIRCUIT MODIFICATIONS.

The following components have been changed with respect to the table given in the 6702 sheets:—

R3 becomes 2.0 megohms in 6736.

R14 becomes 1.5 megohms in 6736.



## SPEED REGULATION.

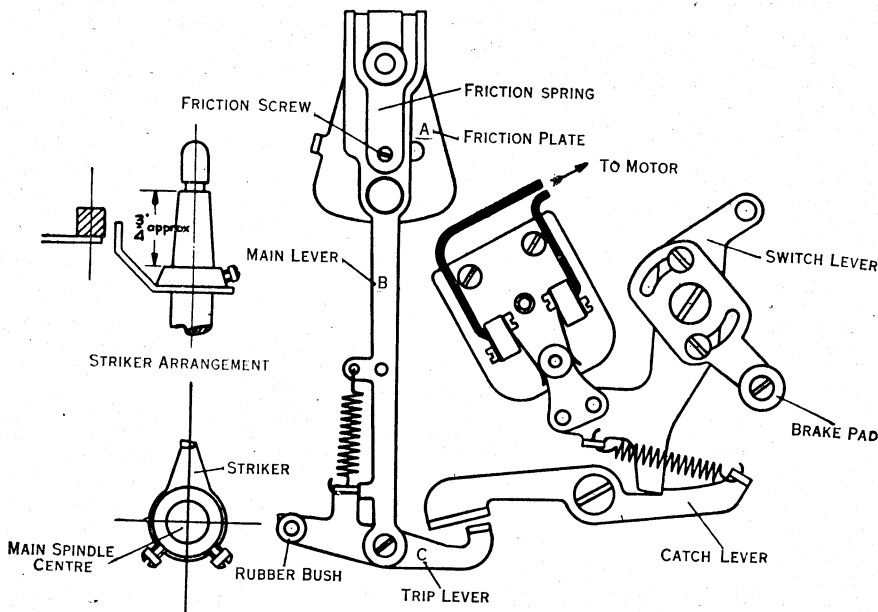
The motor is generally adjusted to run at 78 r.p.m. on 240 volt mains when the regulator points to 78 on the scale. The speed of the motor, however, may vary with different voltage supplies and should be checked by counting the number of revolutions over a full minute. A stroboscope can be used to advantage for this work. Should adjustment be necessary, move the regulating lever until the correct speed is realised. Next remove turntable, loosen quadrant, screw in **speed adjusting quadrant** (see diagram), and place **regulating lever** on the "78" mark. Carefully hold the quadrant, tighten screw, and the speed should be correctly set.

## OILING THE MOTOR.

With normal use the following points should be oiled every three months:—

- (1) Oil down **hole in collar** on main **spindle**.
- (2) Oil through **cut outs** provided in **mounting plate** near trip lever.
- (3) Oil down hole in **brass cap** at end of **Motor casing** (from back of cabinet).

Use only a high grade machine oil for this purpose.



**AUTOMATIC STOP MECHANISM.**