

### 3000 MODEL

# 4 SPEED RECORD CHANGER AND PLAYER

This unit has been engineered as a precision instrument and incorporates an ultra light weight Pickup Arm of exciting modern design and performance to which only high compliance cartridges should be fitted.

- ★ Plays automatically up to 8 records of 7", 10" or 12" diameter at the same speed and styles setting.

When your equipment is installed, check that the 2 transit screws are screwed down clockwise allowing the changer to float freely on its suspension springs. For transporting, screw the transit screws counter-clockwise to lock the unit plate against the motor board.

See reverse for Maintenance, Service and Accessories.

Reject:
A record being played may be rejected by moving control to 'Auto'.

## Stop: Move control to 'Off and motor will stop with pickup, remaining on record. Restart by moving control to 'Manual' and same record will continue playing.

Note:

To prevent stylus damage svoid switching to 'Auto' until records are loaded on record spindle.

To obtain best results, store and clean records as recommended by the record nandsacturers.

Do not leave records on unit when not in use. If you require advice not covered by this leaflet, plass write to our Technical Service Department: for spare parts and service returns write to our Service and Spares Department.

Address: 50-54 Rathor Street, Swindon 22600.
Factory Address: Newcastle Street, Swindon, Wilts.
(Swindon 5381).

### Garrard MODEL 3000

### MAINTENANCE

The motor, turntable spindle and rubber intermediate wheel bearings are of the oil retaining type and rarely need lubricating. When the need for oil is apparent, remove the turntable and lubricate these bearings with a fine grade oil. Remove any excess oil, particularly from the motor pulley, rubber intermediate wheel and inside turntable rim by wiping these driving surfaces with a clean cloth. Oil pivot points if stiffness becomes noticeable.

### To remove turntable:

Pull out the record spindle then prise out the turntable name plate, slide off the retaining clip, noting its position for reassembly, and lift the turntable with equal pressure on diametrically opposed sides.

### The Overarm:

When swung fully inwards the overarm must drop freely in its location. If stiff, remove circlip on overarm spindle (beneath unit), withdraw overarm and clean and oil its spindle.

### SERVICE ADJUSTMENTS

See that the unit is mounted horizontally in its cabinet by checking with a spirit level on the turntable.

### Speed:

Speed variation may be caused by warped records slipping. If this is so, play singly or put adhesive tape on record labels to improve drive. Oil on unit driving surfaces may cause speed variation (see Maintenance).

Should the turntable run fast or slow consistently, check that the motor and motor pulley match the power supply. The motor end cover is stamped with its power supply details and the motor pulley, if the removable type, is colour finished, nickel for 50 cycles and brass for 60 cycles power supply.

Check that the rubber intermediate wheel runs in the centre of the appropriate step on the motor pulley and is not rubbing the side of the adjacent step. If necessary adjust the intermediate wheel height setting blade.

This blue spring steel blade is found beneath the unit plate and adjusts the position of the spindle on which the rubber intermediate wheel is mounted.

### Pickup dropping position:

crease height. The stylus

This position may be adjusted if necessary by turning the horizontal tapered head screw beneath the pickup arm. Clockwise rotation moves arm in and counter-clockwise rotation moves arm out.

### Pickup Height:

The degree of lift is adjusted by the vertical screw set in the rear top surface of the pickup arm. Turn clockwise to decrease and counter-clockwise to in-

point should be set \"

above one record on the turntable mat as the arm returns to its rest. Switch to 'Off' at the appropriate point in the changer cycle to adjust pickup dropping position and height.

### Pickup Pivots:

Pivots for horizontal pickup arm movement are greased and vertical movement pivots operate dry. These pivots should require no attention.

### Stylus Pressure:

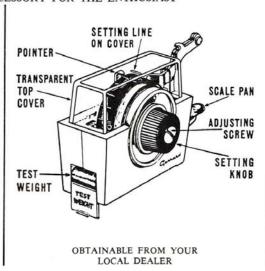
This is preset to the pressure recommended by the pickup cartridge manufacturer. Check occasionally, preferably with a Garrard Stylus Pressure Gauge. To adjust the stylus pressure, turn the knurled nut on the underside of the pickup arm clockwise to decrease and anti-clockwise to increase stylus pressure (pickup weight).

When in 'Off' position, occasionally swing pickup arm over brush, so that the stylus point is cleaned of dust build up. Replace stylus when worn. Some units are fitted with a flexible pickup lift restrictor which must be turned aside to raise the pickup arm when examining the stylus.

### GARRARD STYLUS PRESSURE GAUGE MODEL SPG3

AN INDISPENSABLE ACCESSORY FOR THE ENTHUSIAST

- Easily readable scale, visible through a clear plastic window, reading 0-12 grammes, with ½ gramme indications
  - ♠ Accurate through the entire scale, 0-12 grammes
  - Plastic Scale Pan no damage to delicate stylus
    - Will accommodate all current Pickup Arms and Heads
      - Supplied complete with a 5 gramme checking weight.



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