



# MODEL arrard 1000 4 SPEED RECORD PLAYER AND CHANGER

A compact record changer of modern design and appearance, styled by leading industrial designers and engineered to a high standard of performance and reliability.

### FEATURES

- ★ Plays automatically a  $\frac{3}{4}$ " stack of up to 9 average thickness records of 7", 10" and 12" diameter at the same speed and stylus setting.
- ★ Selects correct record size with records mixed in any order.
- ★ May be stopped and restarted without rejecting the record being played.
- ★ Plays large centre hole 7"—45 r.p.m. records using spindle type L.R.S.10 (optional extra).
- ★ May be used manually as a single record player.
- ★ Accepts a wide range of cartridges.
- ★ Slimmer lines than any other changer.

### TO OPERATE — AUTO

1. Set stylus to suit records and free pickup arm on rest.
2. Set speed control to correct speed.
3. Place records horizontally on recordspindle step and swing overarm fully inwards.
4. Switch on by moving control to 'Auto'. After playing all records, pickup arm will return to rest and unit will switch off.

### TO UNLOAD

1. Lift overarm and swing to right.
2. Lift records clear of spindle, even if replaying same records.

### MANUAL

1. Place record on turntable by threading over record spindle. Swing overarm fully inwards.
2. Switch on by moving control to 'Manual'.

After playing record, pickup arm will return to rest and unit will switch off. The record spindle may be replaced by a short manual spindle (optional extra) for manual operation.

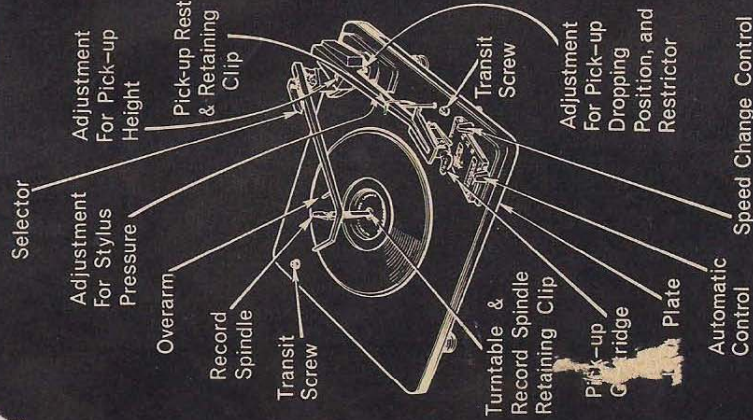
### REJECT

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

### INSTALLATION

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.



THIS IS YOUR SERVICE  
SHEET AND SHOULD  
BE CAREFULLY RETAINED



### 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, avoid switching to 'Auto' until records are loaded on record spindle. To obtain best results, store and clean records as recommended by the record manufacturers. Do not leave records on unit when not in use.

If you require advice not covered by this leaflet, please write to our Technical Service Department; for spare parts and service returns write to our Service and Spares Department.

Address: 50-54 Radnor Street, Swindon, Wilts. (Swindon 226006).

Factory Address: Newcastle Street, Swindon, Wilts. (Swindon 5381).

# Garrard

## MODEL 1000

### 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. If pickup arm pivots are lubricated, use only a fine grade oil.

### To remove turntable

Pull out the record spindle and unclip the retaining clip, noting its location for correct re-assembly. 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

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 driving surfaces may cause speed variation (see Maintenance).

Should the equipment 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 drooping position

Adjustment is provided by means of the horizontal screw beneath the pickup arm. Turn the screw clockwise to move the arm out.

### Pickup height

The degree of lift is adjusted by the vertical screw at the rear of the pickup arm. Turn the screw clockwise to decrease and counterclockwise to increase pickup height. The stylus point should be set  $1\frac{1}{32}$ " above the unit plate surface as the arm returns to its rest.

Switch to 'Off' at the appropriate point in the changer cycle to adjust pickup drooping position and height.

### Stylus pressure

The stylus pressure is altered by ratchet adjustment. Pull the ratchet finger, found on the underside of the pickup arm, towards the pickup head to decrease pressure. To increase, release the ratchet finger indexing spring, taking care as the finger springs back, then reset to the position giving the required stylus pressure. If a pickup arm lift restrictor is fitted, turn it counterclockwise to release, before adjusting stylus pressure.

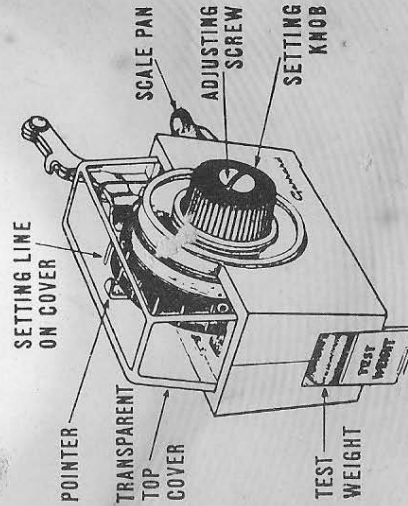
### Pickup

Replace stylus when worn and keep free from accumulated dust.

## 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  $\frac{1}{2}$  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 Leads
- Supplied complete with a 5 gramme checking weight



LARGE RECORD SPINDLE LRS10

For use when playing records with large centre hole



Short spindle for manual operation

OBTAINABLE FROM YOUR

LOCAL DEALER

71035

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