

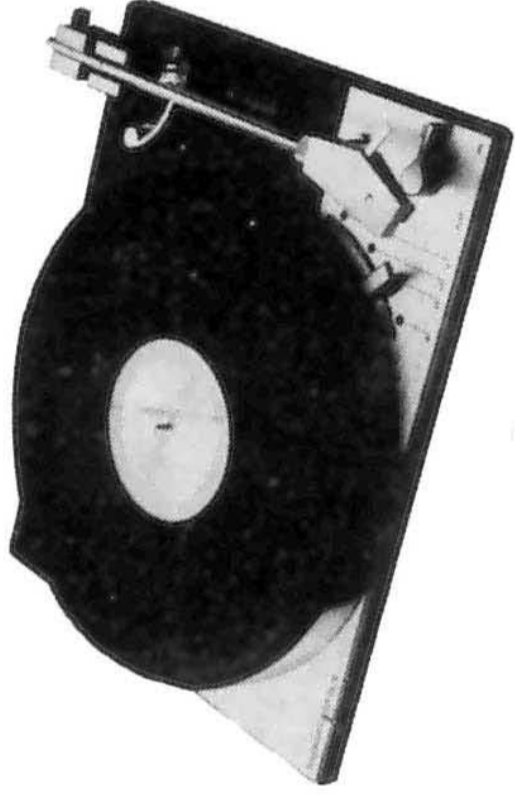
GOLDRING
Lenco

INSTRUCTION MANUAL

“GL 72”

TRANSCRIPTION UNIT

GOLDRING LIMITED



INSTRUCTION MANUAL FOR GOLDRING-LENCO "GL 72" TRANSCRIPTION UNIT

It is recommended that these instructions be carefully read before unpacking the Unit.

DESCRIPTION

The Goldring-Lenco GL 72 follows in the tradition of previous Goldring-Lenco Transcription Turntables in terms of quality and facilities. Its speeds can be continuously varied from 30 r.p.m. to 86 r.p.m. and there are preset click-in stops at $16\frac{2}{3}$, $33\frac{1}{3}$, 45 and 78 r.p.m.

The mains on/off switch is fully suppressed, and the idler wheel is automatically disengaged from both turntable and drive as the unit is switched off. The GL 72 is fitted with the L 69 Arm which can be lowered onto the record by a viscously damped lowering device. A simple yet effective form of bias compensation is incorporated, permitting even the highest quality stereo cartridges to be used. The GL 72 is available in chassis form or as the GL 72/P, mounted on a very attractive teak base for which a clear plastic dust cover is available as an optional extra.

SPECIFICATION

General:

Viscously damped pick-up lowering device.
Speed adjustment infinitely variable between 30 and 86 r.p.m.
Click-in stops for $16\frac{2}{3}$, $33\frac{1}{3}$, 45 and 78 r.p.m.
Wow and flutter according to DIN specification 0.12%.
Variation of speed for a 10% change in mains voltage $\pm 0.3\%$.

Motor:

4-pole constant velocity motor with conical rotor spindle.
AC mains 50 Hz 200-240 volts.
Power consumption at 220 volts 50 Hz 15VA.

Pick-up Arm:

Pick-up arm with counter balanced weight
Knife edge bearings.
Antiskating bias compensator
Scans by www.vinylengine.com

Stylus pressure adjustable from $\frac{1}{2}$ gm.
Removable lightweight pick-up headshell.

Can accommodate any cartridge with standard fixing centres.
Total length of arm $9\frac{1}{8}$ ".

Tracking length (distance from pedestal centre to centre of turntable) $8\frac{1}{4}$ ".

Overhang of stylus $\frac{5}{8}$ ".

Total adjustment for stylus position $\frac{1}{2}$ ".

Tracking error from $4\frac{3}{4}$ " to $9\frac{3}{4}$ " diameter $\pm 0.8^\circ$.

Dimensions:

Baseplate 12" x 15".

Height above baseplate $2\frac{1}{4}$ ".

Depth below baseplate $2\frac{1}{2}$ ".

Turntable diameter 12".

Turntable weight 3 lbs.

Total weight of unit 12 lbs.

1. UNPACKING. This unit was carefully checked before leaving the factory. Observe the condition of the packing carton for signs of improper handling in transit. If damage is apparent, make an immediate claim to the dealer from whom you made the purchase. Check that all items shown in paragraph (4) are complete.

2. BASEBOARD. (Chassis version only). The unit should be mounted on a wooden baseboard about $\frac{1}{2}$ " $-\frac{3}{4}$ " thick of somewhat the same size as outlined on the enclosed template sheet. The baseboard should be cut so as to provide one large cut-out, and drilled for four holes of 1" diameter. The position of the cut-out and the holes may be obtained by either of these two methods:—

(a) Cover the baseboard with carbon paper laid face downwards and fix the template in the desired position with drawing pins at the given hole centres; then scribe on the heavy outline of the cut-out, so

that the line is reproduced on the baseboard by the carbon paper.

(b) Attach template to the baseboard with self-adhesive tape or with pins, and prick through the template with a sharp pointed instrument such as a scribe or bradawl.

3. CABINET CLEARANCES. Top clearance: 3" above top surface of wooden baseboard. Bottom clearance: 2½" below top surface of wooden baseboard.

4. CONTENTS OF CARTON. The following items are contained in the carton:—

- (a) Turntable.
- (b) Rubber turntable mat.
- (c) Motor unit complete with pick-up arm.
- (d) Headshell for pick-up arm.
- (e) Sliding counter balance weight.
- (f) Mounting screws for pick-up cartridge.
- (g) Circular plastic moulding for use with 45 r.p.m. records with 1½" centre holes.
- (h) Envelope containing mounting components for unit. (Chassis model only).
- (i) Stroboscope.
- (j) Spindle for use with Lencoclean Record Cleaning System.
- (k) Circlip for securing turntable to centre spindle.

5. MOUNTING MOTOR UNIT TO BASEBOARD (Chassis model only). (See Template).

Screw the threaded spindles into tapped bosses (1) underneath the baseplate, *having first removed from these bosses the grub screws*. Run the nylon nut up the spindle until it is tight against the boss. Screw the mounting plates on to the baseboard as shown on the template. Push rubber bush over threaded spindle and lower unit on to the motor mounting plates. Offer the springs to mounting plate and secure with lock nut. Levelling of unit is achieved by tightening or loosening this lock nut.

6. WARNING. The motor is held in position by two transit screws (14) (for safety in transit). Before the unit can be played these must be removed.

7. TURNTABLE. Place the turntable on the centre spindle (13) and ensure that it is firmly seated. Secure with the spring clip. Place the loose rubber mat over the centre spindle. To remove the turntable apply a sharp tap to the centre spindle with a wooden block while lifting up the turntable.

8. HEADSHELL. The lightweight plug-in shell (7) has an adjustable cartridge mounting plate to give the correct stylus position for minimum distortion.
To mount cartridge:—

Screw cartridge on to plate with screws provided with the shell.

Plug shell on to arm and ensure that the location pip on the arm engages in the slot of the headshell and secure with knurled ring (6).

Place the stylus template on the turntable with the hole "A" over the centre spindle (13) and the cut-out against the lowering arm (4).

Lift tone arm from rest (5) and swing towards centre, moving On/Off switch to play position.

Lay pick-up gently on the template.

Loosen the screw (9) on the headshell and slide cartridge until the stylus point is exactly on the black line on the template. Return On/Off switch (8) to off position.

Tighten screw (9) and remove headshell from arm.

Connect pick-up leads to cartridge.

"L" left-hand channel—white.

"R" right-hand channel—red.

"GL" left earth—blue.

"GR" right earth—green.

For connection of 2-pin mono cartridges use red and green leads.

For connecting stereo cartridges for mono use only, see cartridge instructions.
Replace headshell.

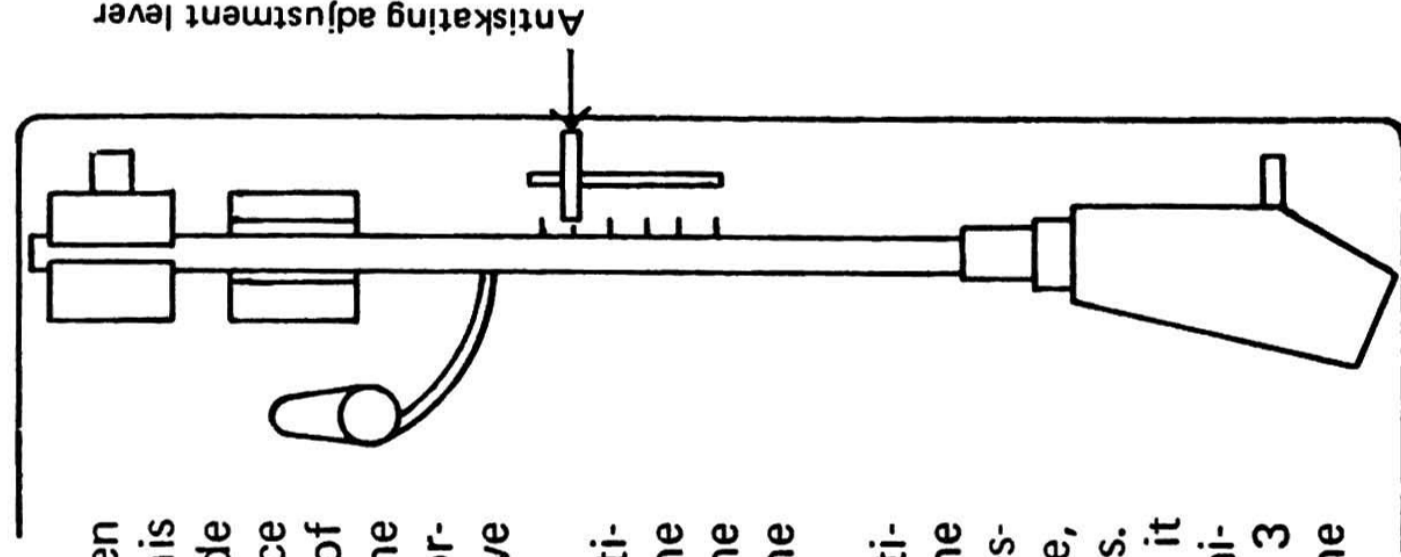
9. PLAYING WEIGHT. Adjust the stylus pressure to the recommended value given by the cartridge manufacturer. Slide the counter balance weight (1) on to the back of the arm, adjust until the arm is balanced out. Note the position of the lines on the counter balance relative to the line on the arm. Each line on the counter balance represents 1 gm. Move the counter weight forward by the required number of lines to give the desired stylus pressure. Lock counter weight in position with knurled screw(2).

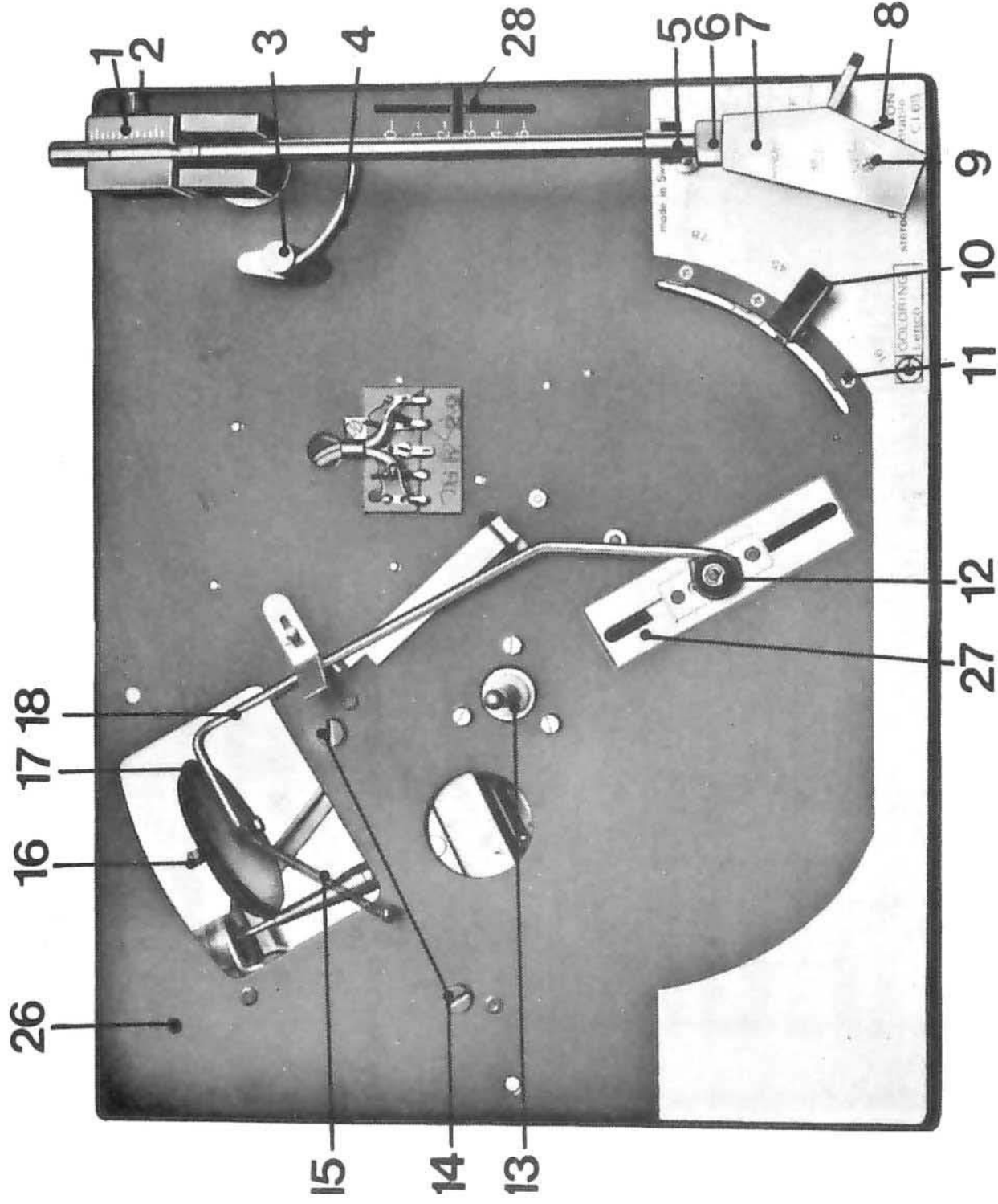
10. ANTISKATING DEVICE.

An antiskating device has been incorporated into the GL. 72, this is to compensate against side thrust which increases the force of the stylus on the inner side of the groove and reduces it on the outer, thus giving rise to distortion and a tendency for groove jumping.

Before adjusting the antiskating device, check that the stylus pressure has been set to the value recommended by the manufacturer.

In order to adjust the antiskating device correctly, slide the lever (28) to the number corresponding to the stylus pressure, e.g. for a stylus pressure of 5 grms. the lever should be moved until it aligns with the number 5. Similarly, for a stylus pressure of 3 grms. it should be set against the number 3.

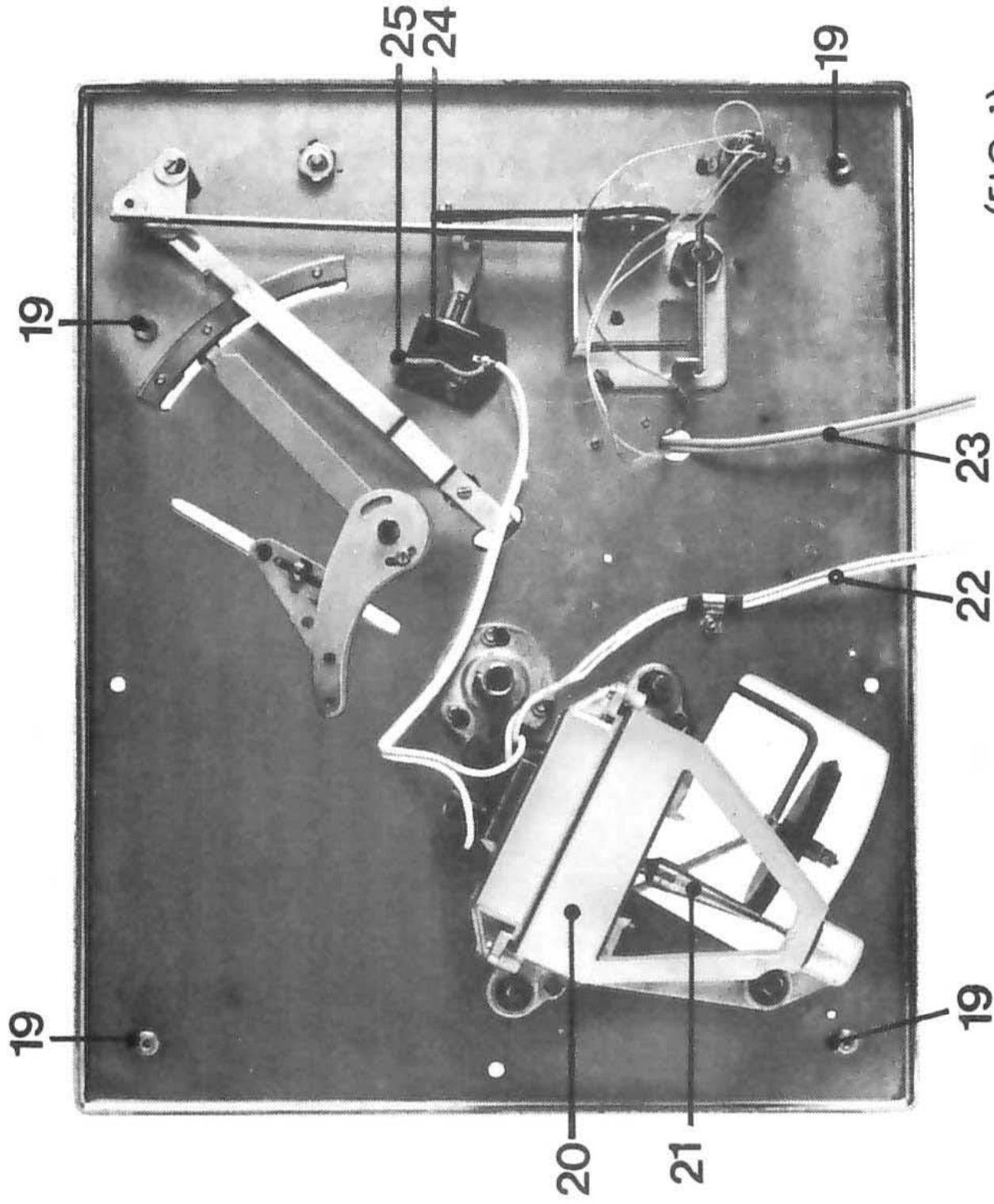




(FIG.2)

TRUE PLAN

- 1 SLIDING COUNTERWEIGHT
- 2 COUNTERWEIGHT SETTING SCREW
- 3 LOWERING ARM ADJUSTING SCREW
- 4 LOWERING ARM
- 5 PICK-UP REST CLIP
- 6 HEAD SECURING RING
- 7 PLUG IN HEAD
- 8 ON OFF KNOB
- 9 CARTRIDGE MOUNTING ADJUSTING SCREW
- 10 SPEED CONTROL KNOB
- 11 SPEED CATCH SET SCREW
- 12 IDLER WHEEL ARM SECURING CLIP
- 13 CENTRE SPLNDLE



(FIG. 1)

MOTOR TRANSIT SCREWS	14
IDLER WHEEL TENSION SPRING	15
IDLER WHEEL RETAINING CIRCLIP.....	16
IDLER WHEEL	17
IDLER WHEEL ARM	18
SPRING MOUNTING BOSSES	19
MOTOR	20
CONICAL MOTOR SPINDLE	21
MAINS LEAD	22
PICK-UP LEAD	23
MAINS SWITCH	24
SWITCH "CLICK SUPPRESSING" CONDENSER	25
HOLE FOR MOUNTING LENCOCLEAN	26
SLIDEWAY	27
ANTISKATING ADJUSTMENT LEVER	28

11. LOWERING DEVICE.

Place a record on the turntable.

Move pick-up arm to playing position until the stylus is just above the record.

Move On/Off switch (8) to "play" position and arm will be lowered on to record.

Check that the pick-up arm is horizontal. If not, loosen screws in pedestal base and move the pedestal up or down until the arm is level.

Tighten screws.

Turn knurled screw (3) on lowering arm (4) until there is a gap of $\frac{1}{16}$ " between it and the rubber buffer on the tone arm.

12. CONNECTIONS TO AMPLIFIER. The leads (23) from the pick-up arm are terminated in Phono plugs. These are standard and should fit the input of most amplifiers. The one colour coded red is the right-hand channel connection and should be plugged into the right-hand channel input of the amplifier. The one colour coded green is the left-hand channel and should be connected to the left-hand channel input of the amplifier.

13. MAINS SUPPLY. The unit is normally supplied for 200-250 volts 50 Hz AC mains. (Special motors for use on other mains voltage or frequency are available on request).

Ensure first that the On/Off switch (8) is in the "OFF" position.

Connect suitable plug to mains lead (22) and plug into mains supply.

A separate earth lead is provided. This should be connected to an earth point on the amplifier chassis. (In some cases—where the amplifier already has an earth connection—the connection of the earth lead from the unit might create a hum loop and in these circumstances this lead can be ignored).

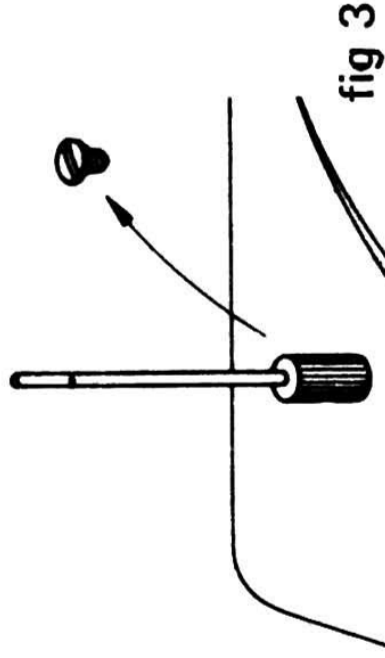
14. TO PLAY. Check that the mains are correctly connected and switched on. Check that the amplifier connections are made and the amplifier is switched on. Check that the speed regulator (10) is set to the correct speed for the record and that the correct stylus has been selected. Place the record on the turntable, position the pick-up on the lowering arm above the desired passage of the record. Turn the On/Off switch (8) slowly in a clockwise direction and the motor will start. Continue turning slowly and the pick-up arm will automatically be lowered gently on to the record. At the end of the record or at the end of any passage you may choose, turn the switch anti-clockwise and the pick-up will be lifted off the record and the motor switched off.

IMPORTANT.

Always switch off the motor before switching off—or disconnecting the mains. The idler wheel otherwise will be left in contact and a flat will appear. This will lead to rumble.

15. SPEED ADJUSTMENT. Although every care has been taken to ensure that the speed locations are pre-set accurately, it is possible that due to transit or in mounting these have become slightly altered. Check each speed with the stroboscope which is supplied with the unit and should adjustment be necessary this can be done by adjusting the set-screw (11) at the side of each speed catch and moving the speed change lever until the lines for the required speed on the stroboscope appear to remain stationary. The set screw should then be tightened. Repeat this test at each speed.

16. LENCOCLEAN. To minimise record and stylus wear as well as reduce crackle clicks and pops from the record we recommend the use of the Lencoclean. A spindle for supporting it is supplied and this should be fitted in the hole (26) as shown in Fig. (3) page 10. The pedestal supplied with the Lencoclean need then not be used.



17 MAINTENANCE AND SERVICE. The motor bearings and turntable spindle bearings are self-lubricating and no further lubrication should be necessary. Should the slideway (27) of the speed change mechanism run dry, then a small amount of vaseline should be applied. Care must always be taken that the underside of the turntable and the idler wheel be kept clean and free from the grease.

NB. Use a clean, dry non-fluffy cloth for cleaning. To remove grease, use a few drops of methylated spirit of carbon tetrachloride on the cloth.

IF the turntable does not rotate but the motor is going, then the idler wheel spring (15) needs replacing and the underside of the turntable should be cleaned with a solution of carbon tetrachloride.

IF after a period of some 9-12 months usage the speeds are found to be slow, remove the turntable and clean the underside, also clean the idler wheel tyre (17) and drive cone of the motor (21) with carbon tetrachloride—in some instances a new idler wheel tension spring (15) may be required.

IF the motor does not operate when the unit is switched on, check that the mains are connected correctly. Should the motor still not operate, then a fault has developed and the motor should be repaired.

IF the motor continues to operate when the unit is switched off, then the switch click suppressing condenser (25) is faulty and should be replaced.

IF the speed is erratic or a rumble develops, then the idler wheel (17) should be cleaned with carbon tetrachloride as should be the underside of the turntable and the motor cone (21).

IF a flat has developed on the idler wheel, this should be replaced. To replace the idler wheel, remove the circlip (12) and unhook the spring (15). Lift out the idler wheel arm (18). The idler wheel is secured by a circlip (16). Remove this and slide the idler wheel off the spindle. Fit the new idler wheel, taking care not to touch the rubber ring. Replace the circlip and re-assemble the idler wheel arm to the unit.

WARNING

If the unit is to be transported for any reason, it is essential that the following precautions be taken:

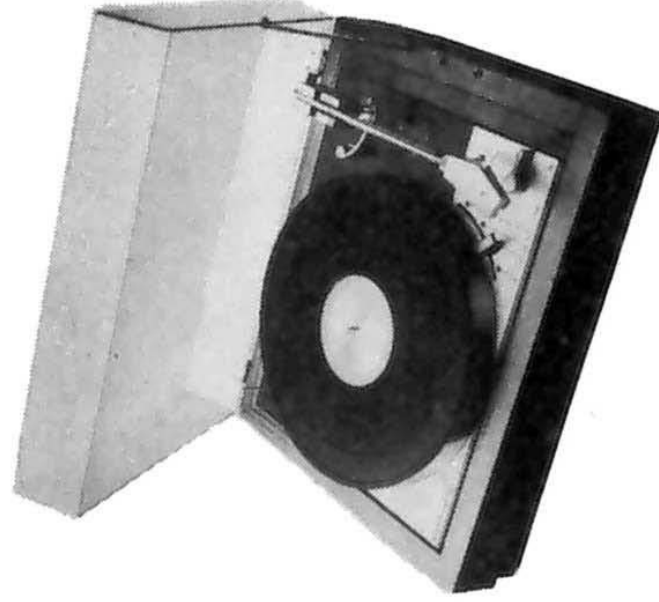
- (1) Remove large counterweight from rear of arm and the small weight from the outrider. Secure pick-up arm to rest.
- (2) Remove the headshell complete with cartridge, and pack carefully as a separate item.
- (3) Remove the turntable and pack as a separate item.
- (4) Retighten motor transit screws.

IMPORTANT

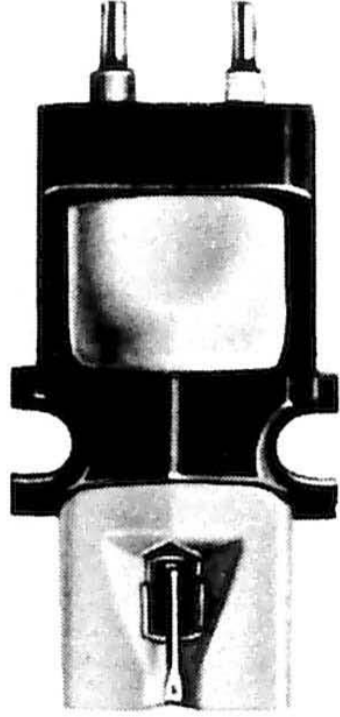
If for any reason it is found necessary to return a Goldring/Lenco Turntable Unit to the Service Department, it is essential that full details be given as to the reason for return. Failure to comply with this request might result in delay of the return of goods. Furthermore, failure to comply with the instructions for transportation will result in damage to the unit.

GOLDRING PLINTH 72

A specially made plinth to accommodate the Model GL. 72 is available. Finished in waxed teak, it has a sprung base. A dust cover, Lid 72, which can be hinged to the plinth is available separately as an optional extra.

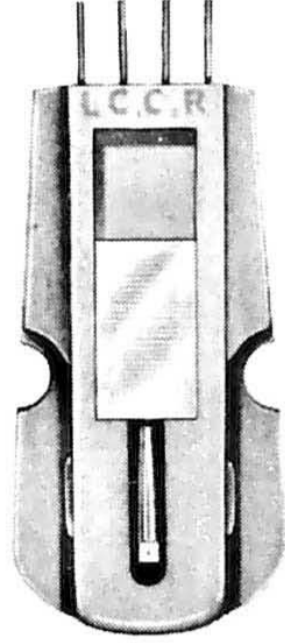


RECOMMENDED CARTRIDGES



GOLDRING MAGNETIC CARTRIDGES

These stereo magnetic cartridges employing the "free field" principle have an exceptionally wide and flat frequency response and excellent separation at all frequencies. G.800—(G.800/H for slightly less sensitive amplifiers.) G.800/E (elliptical stylus). Also the inexpensive G 850.



GOLDRING CS90 & CS91E

For less sensitive amplifiers, these stereo ceramic cartridges which have higher outputs than the G800 range have excellent frequency response characteristics and separation and track at low stylus pressures.

