

Operating instructions



Description

The L 70 is a precision-built record player meeting all the requirements of the Hi-Fi enthusiast. The Unit is wired both for Stereo and Mono. The speed can be adjusted to 16, 33 $\frac{1}{3}$, 45 and 78 r.p.m. in addition to which the speed is infinitely variable from 30 to 86 r.p.m.

The turntable is driven through an intermediate wheel by a very quietly running 4-pole motor. The turntable is made of die-cast zinc, and weighs 3.6 kg. The Pick-up Arm pivots on four special ball bearings, and the stylus pressure can be adjusted. A scale which is arranged on the Pick-up Arm allows for the adjusting of the correct stylus pressure for every type of Pick-up Head. The Pick-up Arm is raised and lowered by means of a lowering arm, which is coupled to the on/off switch. The use of this lowering arm can save the stylus and records from damage.

The Unit is available with either a Bakelite or metal plugin head. Records up to 16 inches in diameter can be played on the L 70. Every L 70 is supplied with an adaptor for records with a large centre hole, a stroboscope disc, full mounting assembly and a template for the motor board cut-out.

Packing

Check the Unit carefully after unpacking. The Unit was tested thoroughly by experts before leaving the factory. Should any damage have occurred through transit, return the Unit complete with packing to the Post Office or railway, with complete damage report.

Installation

When installing the Unit, the instructions on the template must be rigidly followed. The recess for the turntable contains two transit screws marked red, which must be loosened so that the motor is free to move. The motor can be switched for voltages of 115, 145 and 225 volts. In the factory they are adjusted to 225 volts. If the voltage has to be altered, the black setting screw on the motor should be screwed in to the hole marked for the desired voltage.

Before putting on the turntable, the Unit should be carefully cleaned. If necessary the turntable spindle, underside of the turntable, motor cone and idler wheel should be cleaned with a clean, dry, soft cloth. In the event of these parts showing oil or grease, a solution of methylated spirit or carbon tetrachloride should be used for cleaning.

The L 70 is also available fitted on a plinth.

Electrical connection

The shielded pick-up cable is provided with a standard plug which can be connected to an amplifier or radio. This connection is indicated as «GRAMMO». «TA», «PICK-UP» or «Q» on the radio. Later models of amplifiers or radios of European origin have been fitted with a standard socket which fits the L 70. To connect to other or older models with different sockets a shielded intermediate cable should be used. When the unit has been connected to the electric current it is ready for use.

Exchangeable Plug-In Heads

Normally the L 70 is supplied with an empty plug-in shell to enable the user to fit a cartridge of his own choice. It is recommended to use a separate plug-in shell for each cartridge in order to make the change-over as simple as possible. Any cartridge with half inch fixing centres can be used with these plug-in shells, which are available either in Bakelite or aluminium. Six screws of different lengths and two bolts are supplied

for the fitting of the various cartridges. In order to reduce the tangential error to a minimum, it is important that the stylus is arranged exactly between the two markings on the side walls, and in the centre of the plug-in shell.

Adjustment of Pick-up Arm and Lowering Device

Turn the knob in the front right-hand corner to the position marked "Play". Place the record on the turntable and place the Pick-up on the record. Adjust the lowering arm by loosening the knurled screw until there is a gap of 1 mm between its top surface and the bottom of the rubber stud on the Pick-up Arm. When this position is reached, tighten the knurled screw. When turning the switch lever to positions marked "on" or "off", the Pick-up Arm will be raised from the record. In the position marked "on" the motor runs while the Pick-up Arm does not move. In position "play" the Pick-up Arm is lowered onto the record.

Adjustment of stylus Pressure

At the rear end of the Pick-up Arm is a milled knob. This controls the spring tensioning of the Arm and enables the stylus pressure to be adjusted. A scale of 1 - 15 on the Pick-up Arm indicates the setting for any given stylus pressure and when cartridges are exchanged the correct stylus pressure is given by referring to the original setting. To achieve perfect sound reproduction with minimum record wear, it is important that the stylus pressure recommended for any particular cartridge is strictly adhered to. In this connection, we recommend the Lenco Pick-up Balance, which has a calibration of 0-50 grams, and which can also be used as a letter scale.

Playing of Records

- 1) Check whether the plug-in shell is well fixed. Check whether the correct stylus is used for the record to be played. Stereo records must only be played with stereo equipment. If a normal L. P. record is played with a stereo stylus, disturbing noises may occur.
- 2) Move the speed regulating lever to the speed groove appropriate to the record.
- 3) Move the Pick-up Arm towards the centre of the turntable and release the Pick-up retaining clip. Move the Pick-up Arm until the point of the stylus is directly above the desired groove.
- 4) Turn the switch to the position marked "on" and wait a few seconds until the turntable has reached the correct speed.

- 5) Now turn the switch slowly to the position marked "play".
- 6) When the record is finished, turn the switch to the "off" position. The Arm will be lifted from the record as the motor is switched off.
- 7) Push the Pick-up Arm to the right if the record player is not going to be used any more. The Pick-up Arm should be secured by means of the retaining clip.
- 8) For records with a large centre hole, the adaptors provided should be used.

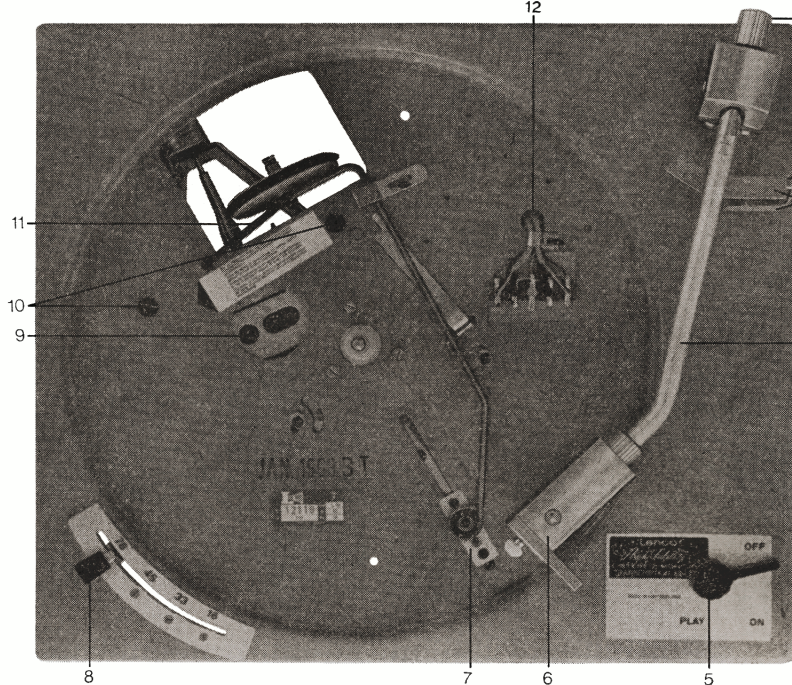
Speed Control and Adjustment

The speed was carefully adjusted and tested in the factory. If for any reason the speed has to be adjusted, proceed as follows:

- 1) Push the speed regulating lever to the desired speed.
- 2) Place the record on the turntable.
- 3) Place the stroboscope disc on the record (round disc with light and dark lines).
- 4) Move the Pick-up Arm until the stylus is directly above the first grooves of the record.
- 5) Turn the switch lever to the position marked "Play".
- 6) Illuminate the stroboscope with a mains supply light. The stroboscopic ring for the corresponding speed will appear to be standing still when the speed is correct. If the light and dark lines appear to be moving clockwise, adjust the speed as follows:
 - a) Loosen the screw on the speed setting groove (only one or two turns).
 - b) Set the speed regulating lever in the speed setting groove and move the lever carefully until the speed is correct.
 - c) Lift the lever carefully from the groove without moving same and tighten the screw again.
 - d) Repeat this procedure until all speeds are correct. These measurements should only be taken when the Unit is warmed up.

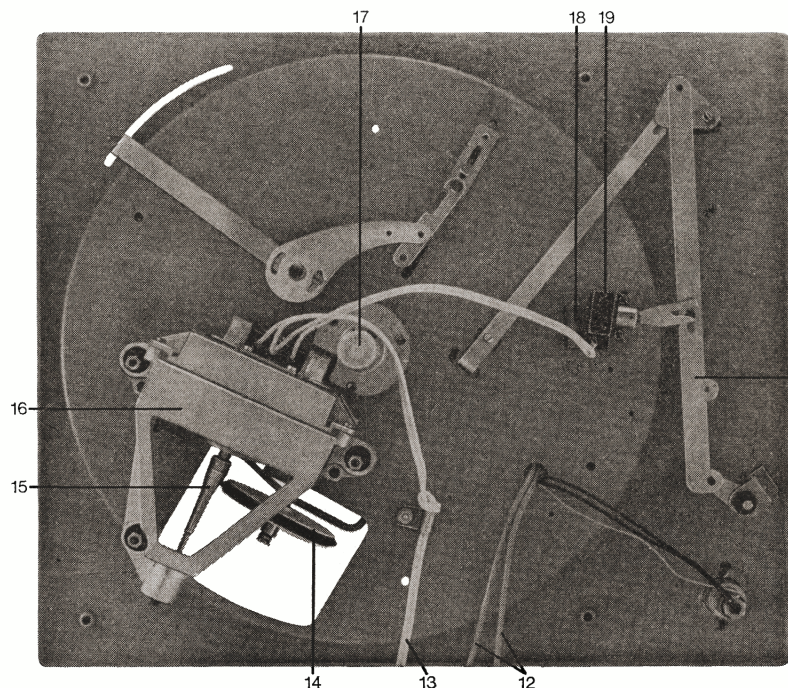
Maintenance

The bearings have been greased in the factory and do not require any additional grease. From time to time the stylus point should be cleaned and checked for wear by an expert. Worn or damaged styli will cause distortion, and will damage your records. Stylus pressure should also periodically be checked by means of the Lenco Balance.



- 1 Gewichtsregulier-schraube
- 2 Armheberschraube
- 3 Armheber mit Sicherungsclips
- 4 Tonarm
- 5 Handsetzschalter
- 6 Ansteckkopf
- 7 Zwischenrad-gestänge
- 8 Tourenzahl-regulierhebel
- 9 Spannungswähler
- 10 Transportsiche-rungsschrauben
- 11 Zwischenradfeder
- 12 Tonarm-Kabel
- 13 Netzkabel
- 14 Zwischenrad
- 15 Konische Motor-achse
- 16 Motor
- 17 Tellerachslager
- 18 Kondensator
- 19 Kippschalter
- 20 Armhebergestänge

- 1 Vis de réglage de la force d'appui
- 2 Vis de fixation du relève-bras
- 3 Relève-bras et pince de fixation
- 4 Bras de lecture
- 5 Manette de mise en marche
- 6 Tête amovible
- 7 Commande de la poulie intermédiaire
- 8 Levier sélecteur de vitesse
- 9 Sélecteur de tension
- 10 Vis de blocage du moteur
- 11 Levier de poulie intermédiaire
- 12 Câble de raccorde-ment du pick-up
- 13 Cordon réseau
- 14 Poulie d'entraîne-ment du plateau
- 15 Axe conique du moteur
- 16 Moteur
- 17 Axe du plateau
- 18 Condensateur
- 19 Interrupteur
- 20 Levier de commande du relève-bras



- 1 Tornillo regulador del peso
- 2 Tornillo elevador del brazo
- 3 Elevador del brazo con clip de seguridad
- 4 Brazo del pick-up
- 5 Interruptor de puesta manual
- 6 Cabeza de enchufe
- 7 Varillaje de ruedas intermedias

- 8 Palanca reguladora del número de revoluciones
- 9 Selector de voltaje
- 10 Tornillos aseguradores para el transporte
- 11 Muelle de ruedas intermedias
- 12 Córdón del brazo de pick-up

- 13 Córdón de la red
- 14 Ruedas intermedias
- 15 Eje cónico del motor
- 16 Motor
- 17 Soporte del eje de la placa portadiscos
- 18 Condensador
- 19 Interruptor basculante
- 20 Varillaje elevador del brazo

- 1 Pressure regulating screw
- 2 Pick-up arm lifter screw
- 3 Pick-up arm lifter with securing clip
- 4 Pick-up arm
- 5 Hand setting switch
- 6 Plug-in head
- 7 Idler wheel assembly
- 8 Speed regulating lever
- 9 Voltage selector
- 10 Transport securing screws
- 11 Idler wheel spring
- 12 Pick-up arm cable
- 13 Mains cable
- 14 Idler wheel
- 15 Conical motor spindle
- 16 Motor
- 17 Turntable bearing
- 18 Condensator
- 19 Toggle switch
- 20 Pick-up arm lifting assembly

Lenco Pick-up-Waage

Für eine einwandfreie, plattenschonende Tonwiedergabe ist es wichtig, daß die für eine Tonzelle angegebene Auflagekraft möglichst genau eingestellt wird.

Der Auflagedruck kann beim L 70-Tonarm verstellt werden, doch ist eine direkte Eichung des Auflagegewichtes in Gramm nicht möglich. Mit der LENCO-Pick-up-Waage können Sie den Auflagedruck genau kontrollieren und wenn nötig nachregulieren. Der Meßbereich der Waage beträgt 0 bis 50 g. Dadurch ist es auch möglich, diese als Briefwaage zu verwenden. Die Waage ist in jedem Fachgeschäft erhältlich.

Pèse pick-up Lenco

Afin d'obtenir une reproduction sonore irréprochable et de ménager les disques au maximum, il est très important de régler avec la plus grande précision la pression du bras prescrite pour la cellule de votre pick-up.

Avec le L 70 la pression du bras est réglable; un étalonnage précis n'est toutefois pas possible. La balance Lenco pour pick-up permet de contrôler avec exactitude le poids du bras et, si nécessaire, de le régler. Cette petite balance peut peser de 0 à 50 g; elle peut donc servir aussi de pèse-lettres.

Elle est en vente dans tous les magasins de la branche.

Lenco Pick-up balance

The stylus pressure exerted on the record player should be regulated as accurately as possible to ensure impeccable sound reproduction and to avoid damage to the playing surface.

With the pick-up arm of the L 70, this pressure can be adjusted. Precise calibration however, is not possible.

With the Lenco pick-up scale, pressure can be accurately checked and, if necessary, regulated.

The range of the scale extends from 0—50 grammes and it can, therefore, also be used to weigh letters.

The scale can be obtained from any specialized shop.

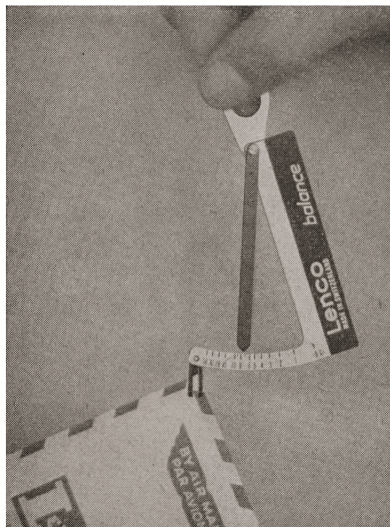
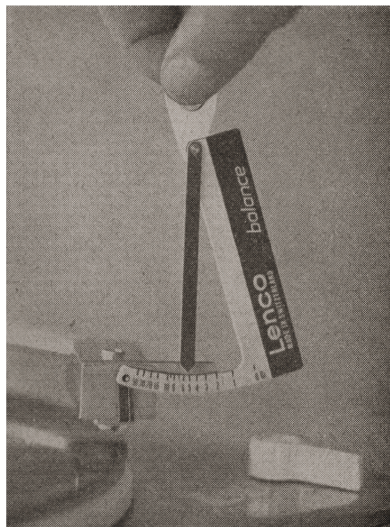
Balanza Lenco

La presión indicada para la cabeza del brazo del cambiador debe ajustarse con el máximo de exactitud, con el fin de lograr una reproducción impecable del sonido y evitar todo daño al disco.

Puede regularse la presión del brazo del cambiador L 70, resultando sin embargo imposible la calibración directa. Con la balanza Lenco para cambiadores de discos puede comprobarse con toda precisión la presión, permitiendo también, de ser necesario, el ajuste de la presión.

La capacidad de la balanza es de 0 a 50 gramos. Puede, por lo tanto, utilizarse también como pesa-cartas.

La balanza puede obtenerse en cualquier tienda de la especialidad.



LENCO LTD. BURGDORF SWITZERLAND