

*Garrard*

SYNCHRO-LAB 55

AUTO TURNTABLE

instructions

# Features

- ★ Laboratory balanced synchronous motor (Patent applied for).
- ★ An auto turntable handling up to 8 records of 7", 10" and 12" diameters intermixed at the same speed and stylus setting.
- ★ Facility for single record play.
- ★ Cueing device permits temporary interruption of record play.
- ★ Four speeds: 16 $\frac{2}{3}$ , 33 $\frac{1}{3}$ , 45 and 78 r.p.m.
- ★ Pickup arm wired for stereo and mono reproduction.

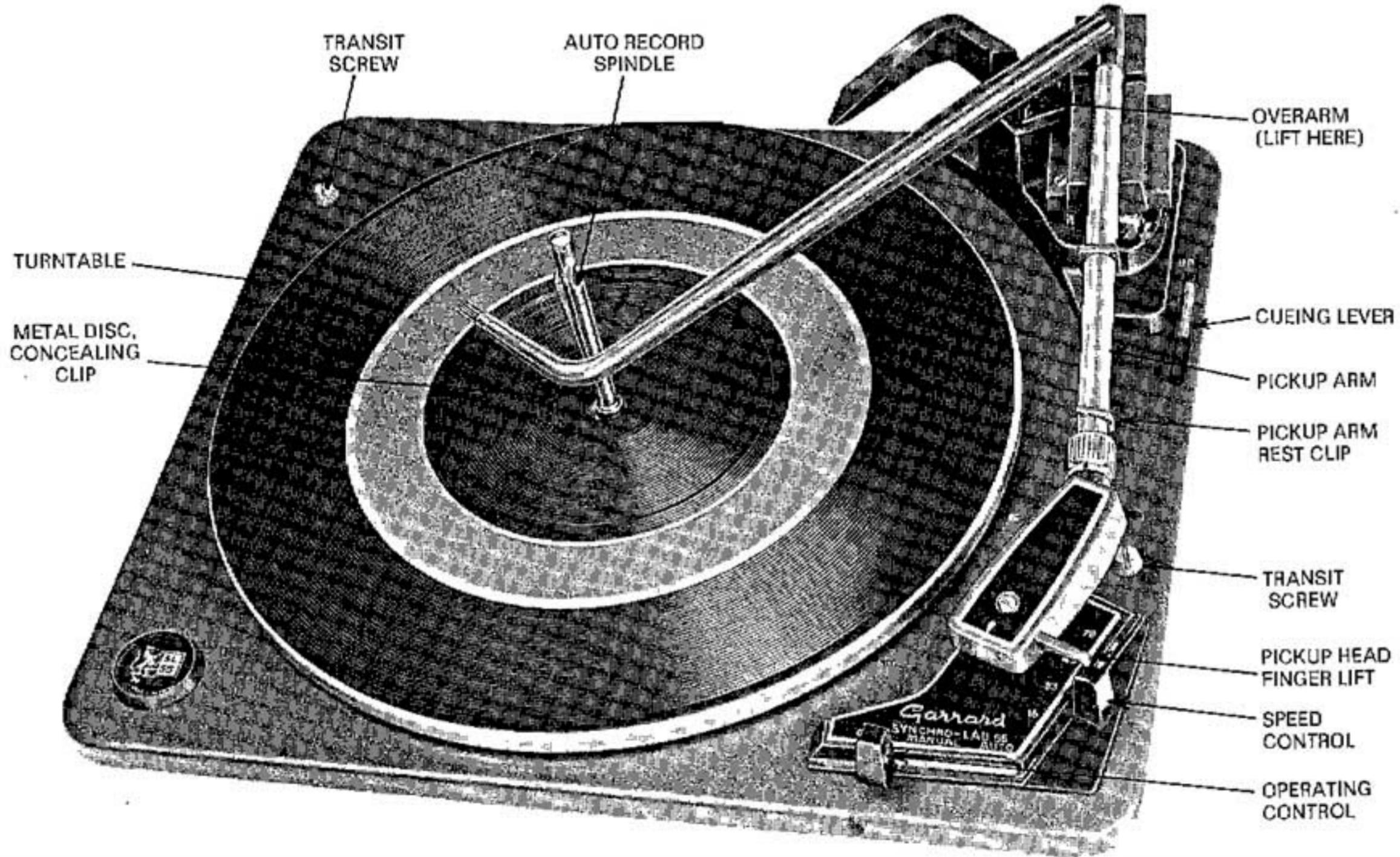


Diagram 1

# Garrard Synchro - Lab 55 Auto Turntable

## Instructions for Use

- 1 Check that unit is installed in accordance with instructions inside this folder.
- 2 Check that both transit screws are turned fully clockwise and that unit floats freely on its mounting springs.
- 3 Release clip holding pickup arm to rest.
- 4 Lift overarm and swing it outwards.

### AUTOMATIC PLAY

- 1 Check that stylus and speed control settings are correct for type of records to be played.
- 2 Place records horizontally on auto record spindle step and swing overarm fully inwards.
- 3 Switch on by moving operating control to 'Auto'.
- 4 After playing records, pickup arm lifts and returns to rest and unit switches off. Unload records by lifting overarm and swinging it outwards then lift records clear of spindle.
- 5 **To interrupt record play for a short time**, move the cueing control lever backwards to lift the pickup from the record. To resume play, move the lever steadily frontwards to lower the pickup.
- 6 **To reject record being played**, move operating control to 'Auto'.
- 7 **To stop turntable** while record is being played, move control to 'Off'; pickup will remain on record. To restart, move control to 'Manual'.
- 8 **To play automatically, records with large centre holes**, use Garrard L.R.S.20 Large Record Spindle, available from your dealer.

### MANUAL PLAY

- 1 Withdraw auto record spindle and fit short manual spindle.
- 2 Check stylus and speed control settings.
- 3 Place record on turntable, and swing overarm fully inwards.
- 4 Switch on by moving operating control to 'Manual'.
- 5 Place pickup on record. After playing record, pickup arm lifts and returns to rest and unit switches off.
- 6 **Cueing device.** The pickup can be gently raised from or lowered on to a record on the turntable by operating the Cueing Lever. This lever can also be used for interrupting either Automatic or Manual play for a short time, by moving it backwards to lift the pickup from the record. To resume play, move the Lever steadily forwards to lower the pickup on to the record.
- 7 **To reject record**, move operating control to 'Auto'.
- 8 **To stop turntable**, move control to 'Off'; pickup will remain on record.
- 9 **To play manually, records with large centre holes**, use special Garrard Adaptor, available from your dealer.

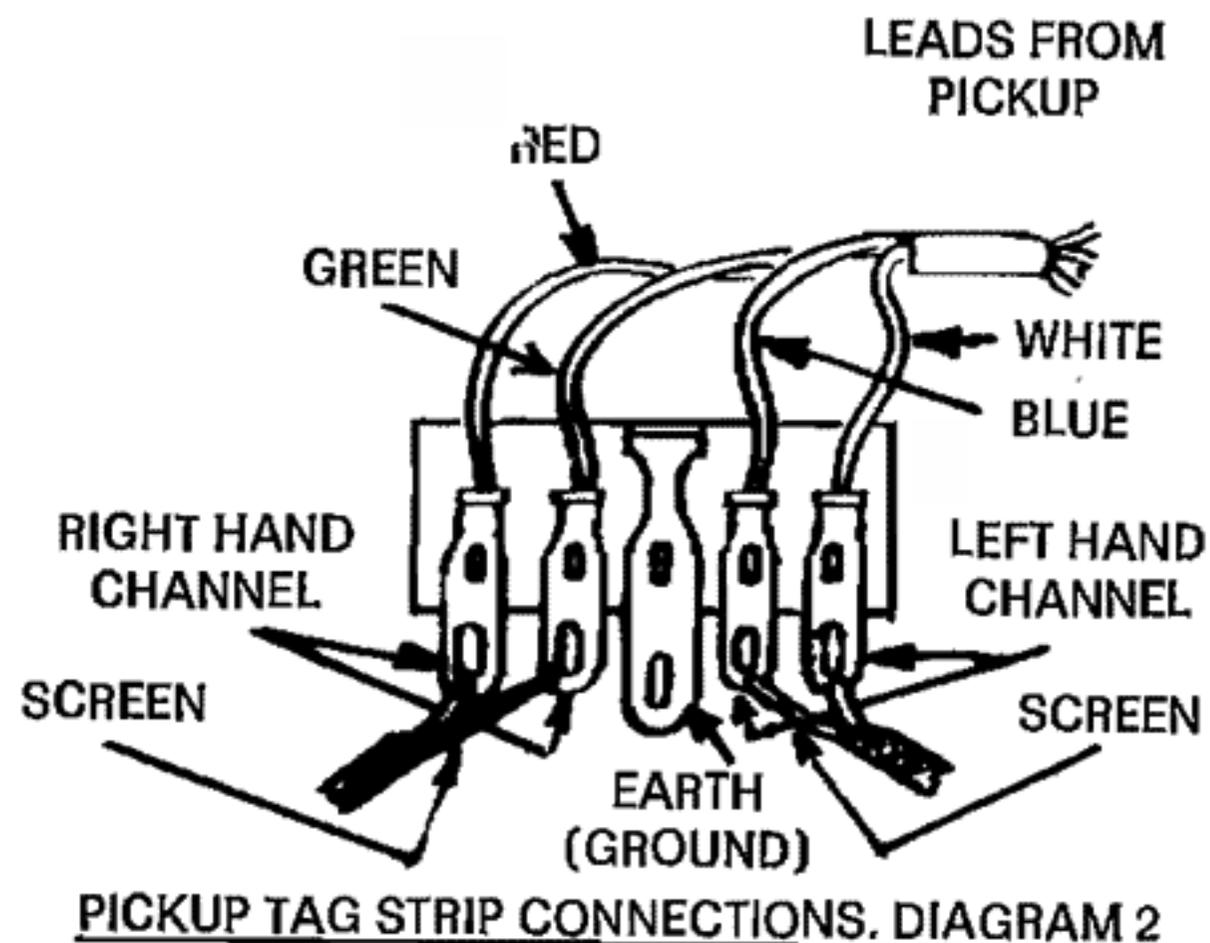
### NOTE

- 1 Keep pickup stylus free from dust and replace when worn. Your dealer will advise you.
- 2 Handle, store and clean records as their manufacturers suggest.
- 3 Do not leave records on unit when it is not in use.
- 4 Before transporting, turn transit screws fully counterclockwise to lock unit plate against mounting board, then clip pickup arm to rest.

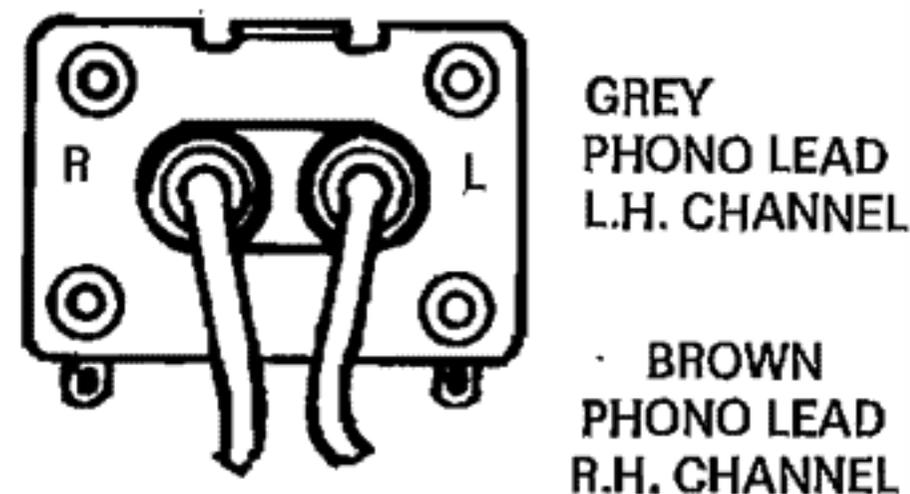
# Installation

These instructions can be ignored if the SL 55 is already installed.

- 1 Audio lead connections are as shown on either Diagram 2 or 3. Connect screened leads to tags as shown on Diagram 2 or, if provided with a twin phono socket, plug brown phono lead into socket R (right-hand channel) and grey lead into socket L (left-hand channel) on Diagram 3. For stereo reproduction from a stereo pickup cartridge use both channels. For mono reproduction from a mono cartridge use right-hand channel only. For mono reproduction from a stereo cartridge, parallel both channels.
- 2 Turn both transit screws fully clockwise, check that their spring clips are vertical, then assemble auto turntable to board. Transit screws must pass through their holes and the mounting springs (with plastic foam damping pads inserted), locate in recesses in motor board. Turn transit screw clips horizontal, check that leads are clear of obstructions and that unit floats freely on mounting springs.
- 3 Attach leads to amplifier(s), earth and power supply respectively.
- 4 If counterbalance weight (see Diagram 5) is not already attached to pickup arm, fit front of weight inside back of pickup arm tube, with its locating pin in the adjacent slot. Press weight until it locks into position. **It is then held in place permanently.**
- 5 Fit cartridge to pickup head shell, if necessary, then reset pickup lowering position, lifting height and stylus pressure. (See 'Adjustments'.)



TWIN PHONO SOCKET CONNECTIONS  
DIAGRAM 3



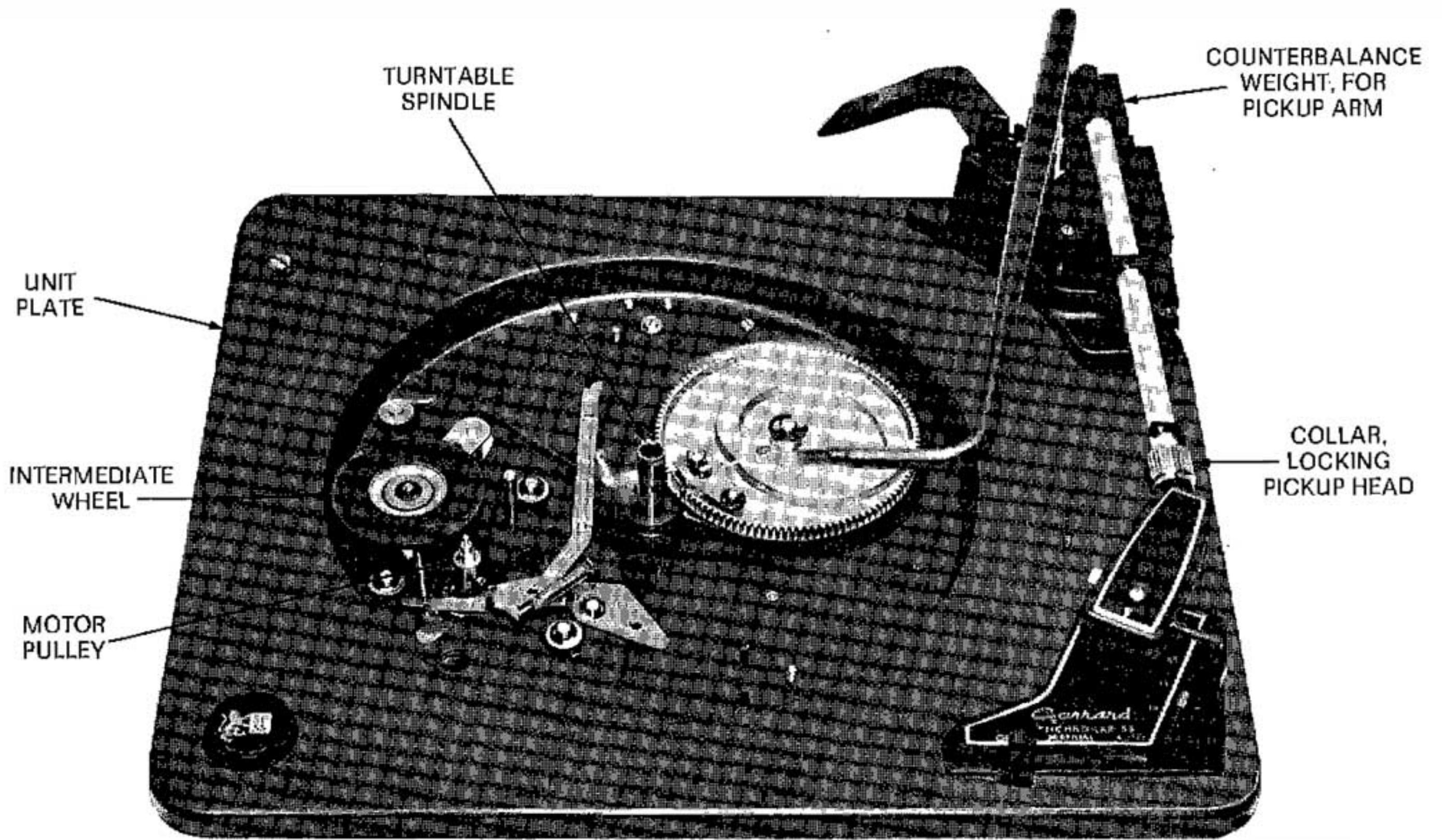


Diagram with turntable removed

Diagram 5

# Fitting Cartridge

A plug-in pickup head, designated M7 is used on the SL 55. This may be supplied with or without a pickup cartridge. The pickup hardware kit, part no. 59048, see Diagram 4, which is supplied when a cartridge is not fitted, contains a set of cartridge fixing accessories comprising:

- Mounting bracket(s)
- Two 6 BA x  $\frac{3}{8}$ " screws
- One 6 BA x  $\frac{1}{8}$ " screw

These parts enable most types of cartridge to be fitted without difficulty by screwing the cartridge to the mounting bracket and securing the assembly to the pickup shell with the  $\frac{1}{8}$ " screw. Cartridges having a single fixing hole may be fitted directly to the pickup shell using the  $\frac{1}{8}$ " screw.

Connect the colour coded leads in the pickup shell to the connection tags on the cartridge. Do not solder leads direct to the cartridge. If the cartridge terminations are sockets a special connector must be used. The connections should be made as follows:—

- Red to Right Channel
- Green to Right Channel Common
- White to Left Channel
- Blue to Left Channel Common

Information on its connections is usually supplied with the cartridge. For cartridges having three connections, use the green lead as the common connection or join the green and blue leads together and use these as the common connection. For monophonic cartridges use the red and green leads. Insulate and tuck away any leads not required.

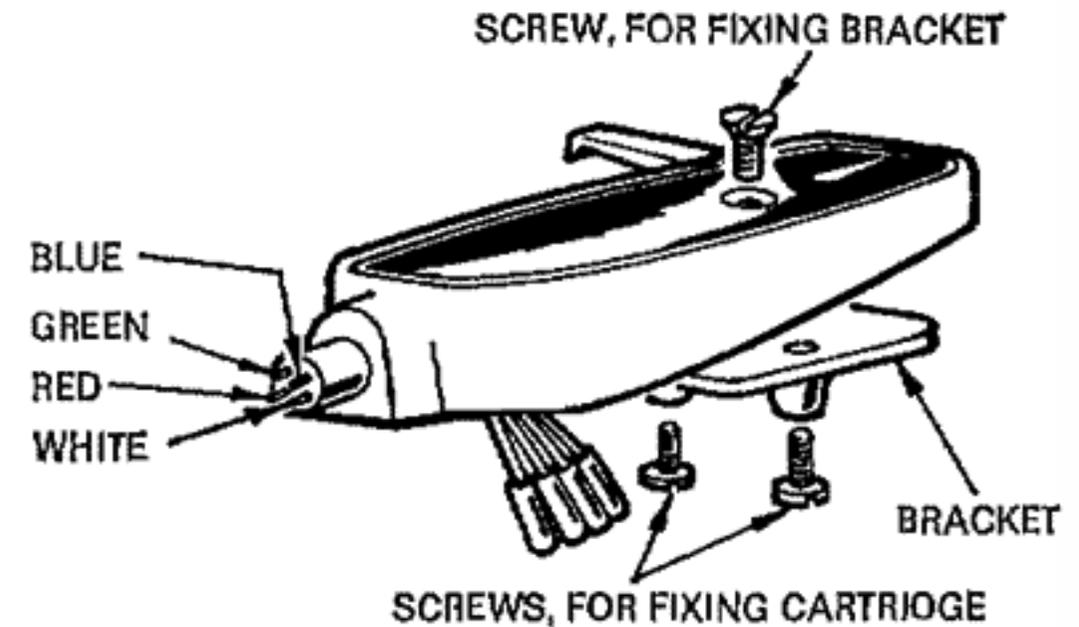


Diagram 4

# Maintenance

## To Lubricate

Disconnect power supply, remove turntable by pulling out record spindle, turning back inside edge of rubber mat and lifting out metal disc. Then prise off retaining clip, noting its position — small hole facing rear left — for re-assembly, and lift turntable by applying equal pressure on opposite sides. Apply a spot or two of sewing machine oil, or similar light high-grade oil, to bearings of rubber intermediate wheel, turntable spindle and motor. Take care to keep all driving surfaces clean and dry.

Overarm must lower freely. If it does not, clean and lightly oil its spindle.

## To remove Pickup Head

Turn knurled locking collar fully clockwise and withdraw head.

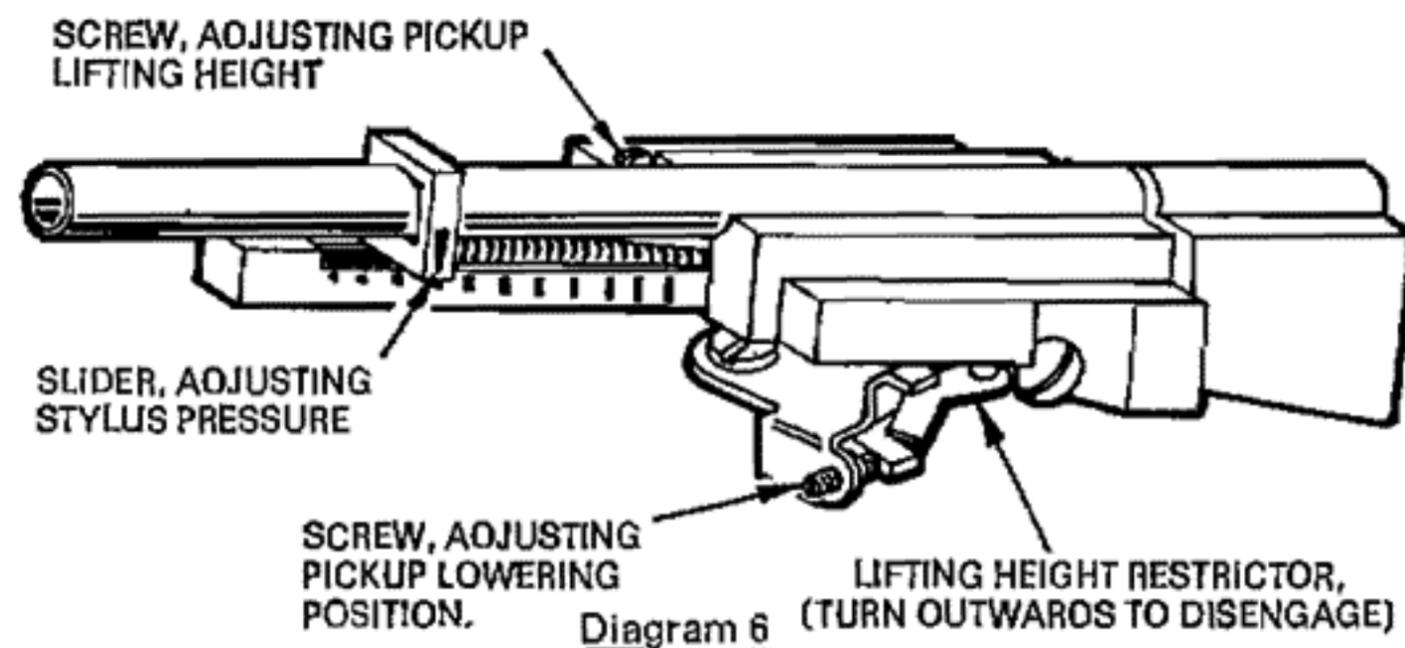
## Note

Variation in turntable speed can be caused by:

- 1 Warped records. If this is so, stick a small piece of adhesive tape to their labels to prevent slipping.
- 2 Incorrect power supply voltage or frequency. Motor operating voltage range is shown on label on the side of motor. Motor pulley is colour coded: brass for 60 c.p.s. and nickel for 50 c.p.s. supplies.
- 3 Oil on driving surfaces. Clean motor pulley, intermediate wheel and inside of turntable rim.

# Adjustments

- 1 **Pickup Lowering Position**—If pickup lands too far in on a record, turn small horizontal screw beneath pickup arm on pivot bracket counterclockwise. If it lands off record, turn screw clockwise to bring arm inwards. Operate unit and switch off just before stylus lands, to check position.
- 2 **Pickup Lifting Height**—If pickup arm does not lift high enough to clear top of record stack or to return to rest, turn vertical screw on top of pickup arm counterclockwise. The stylus tip should be  $1\frac{1}{8}$ " above unit plate as arm returns to rest. Operate unit and switch off as arm returns, to measure height.
- 3 **Stylus Pressure** is set by moving slider on top of pickup arm frontwards to decrease and backwards to increase. Set stylus pressure to pickup cartridge maker's specification and check occasionally, using a Garrard Stylus Pressure Gauge, available from your dealer.



For technical information or spare parts contact your  
Garrard agent or write to

In U.S.A.:

GARRARD SALES CORPORATION, WESTBURY, NEW YORK  
11590.

Other territories:

GARRARD ENGINEERING LIMITED, NEWCASTLE STREET,  
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