

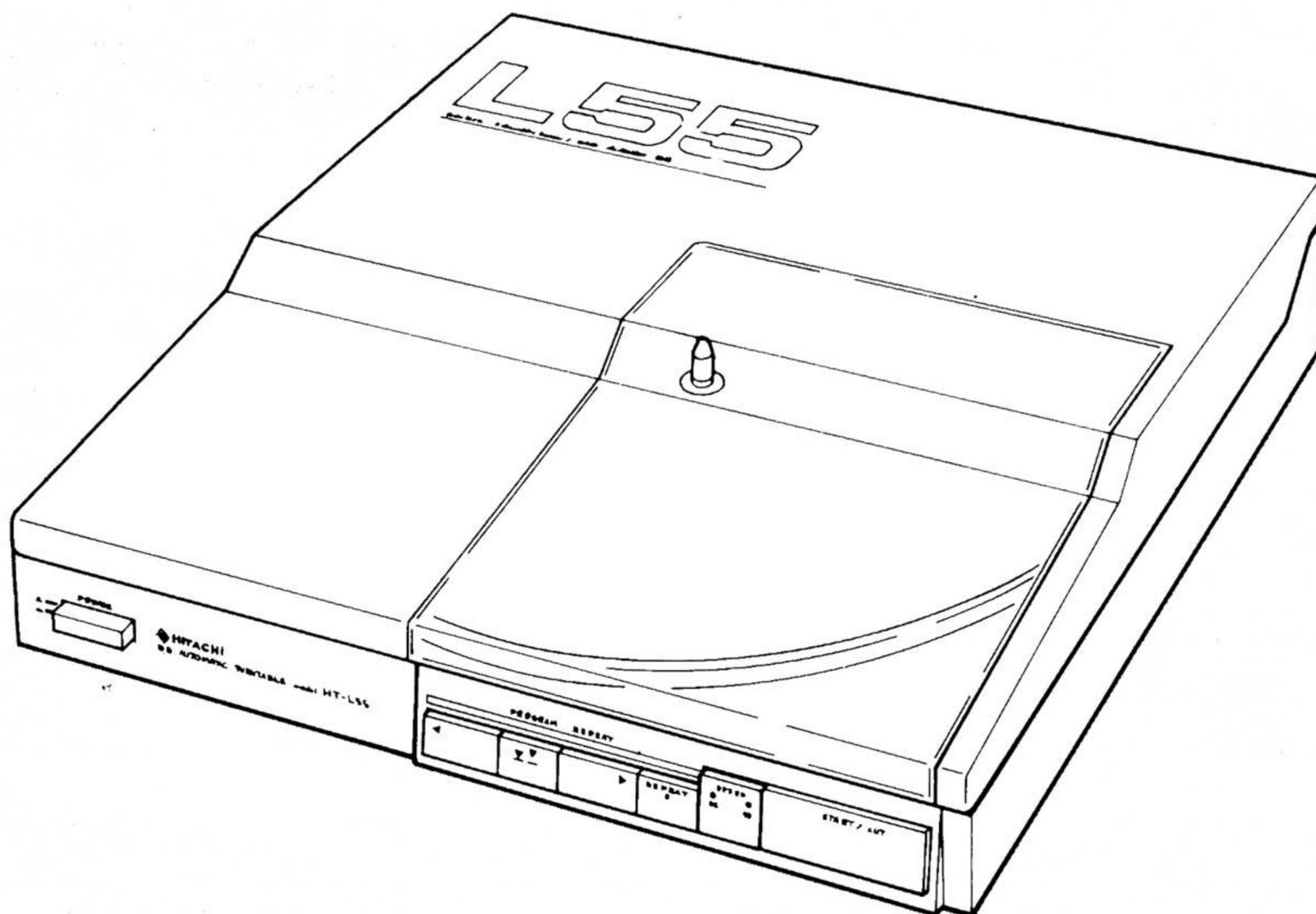


Model
Modell
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HT-L55

DIRECT-DRIVE AUTOMATIC TURNTABLE
AUTOMATISCHER PLATTENSPIELER MIT DIREKTANTRIEB
PLATINE AUTOMATIQUE À ENTRAÎNEMENT DIRECT
GIRADISCHI AUTOMATICO A TRAZIONE DIRETTA
VOLAUTOMATISCHE DIREKT AANGEDREVEN PLATENSPELER
GIRADISCOS AUTOMATICO DE MANDO DIRECTO

INSTRUCTION MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUALE D'ISTRUZIONI
GEbruIKSAANWIJZING
MANUAL DE INSTRUCCIONES



English

SAFEGUARD

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. Improper use can result in potential electrical shock or fire hazards. In order not to defeat the safeguards, observe the following instructions for its installation, use and servicing.

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

FEATURES

1. Low-mass, dynamic balance linear tracking tonearm

This unit features a linear tracking tonearm which moves in the same linear way as the cutting machine did when it produced the sound grooves on your disks. The non-contact optoelectronic tracking error detector greatly reduces the tracking error and helps to yield a high-fidelity reproduced sound with minimal tracking distortion. The combination of the low-mass tonearm with an effective length of 95 mm and an extremely sensitive gimbal support bearing unit works tracking wonders.

2. Disk jacket size for easy installation anywhere

This turntable has measurements of 315 mm for both its width and depth, giving it the same size as a disk jacket. Its height is only 83 mm for a slim overall design which takes up the minimum in installation space.

3. Slimly designed Unitorque motor

Hitachi has incorporated a slimly designed Unitorque motor which is an upgraded version of its original Unitorque motor that displays a uniform torque and a smooth fixed rotational speed. This motor's speed detection precision and response characteristics have further been improved by a 240-pole magnetization feature based on a precision magnetization technique. As a result, the turntable exhibits an excellent signal-to-noise ratio with low wow and flutter.

4. Quartz control (quartz lock PLL servo)

The load characteristics and rotational precision are enhanced by controlling the rotational speed through a process of comparing the phases of the constant oscillation frequency generated by the crystal oscillator and the detection frequency from the motor's speed detection unit. The circuit which performs this function is based on a single-chip LSI which contributes greatly to improving the reliability of the circuit.

5. Repeat play from any position on disk (program repeat)

The points at which the repeat operation is to start and end can be set exactly as required and the desired track or tracks can be repeatedly played. This means that you can play over and over again only the tracks of your choice or the sections that particularly appeal to you such as climactic parts.

6. Timer start from any position on the disk

Timer play is possible from any desired position on the disk using the timer.

7. Other features

- * All operations are computer-controlled.
- * No-contact auto size/speed detector
- * Tonearm "in" and "out" buttons (for moving the tonearm toward the inside or outside of the disk in very small steps).
- * Muting switch for muting the shock noise heard when the stylus descends onto the disk or when it lifts off the disk.
- * No-contact opto-electronic return detector.

INSTALLATION

1. Removing the armholder

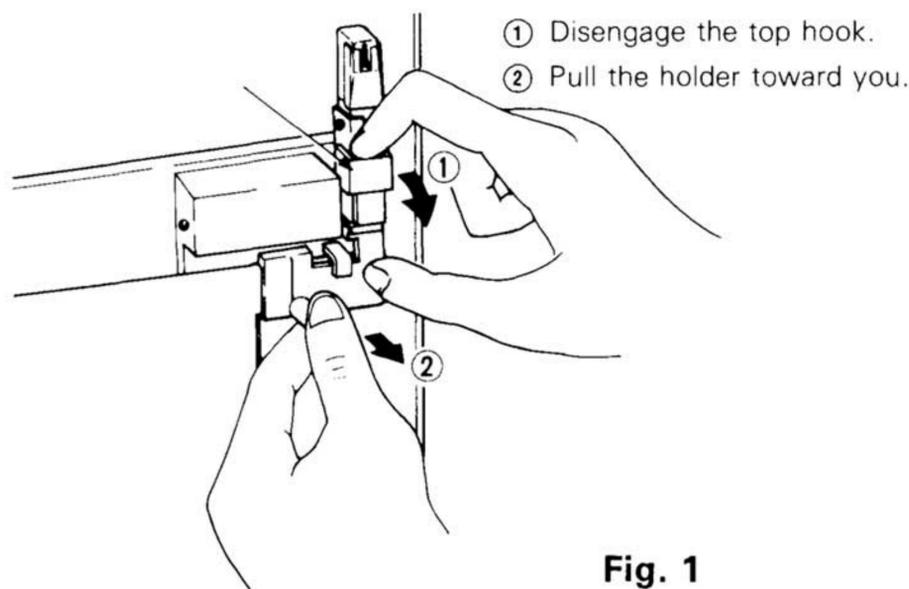


Fig. 1

2. Mounting the platter and the platter mat

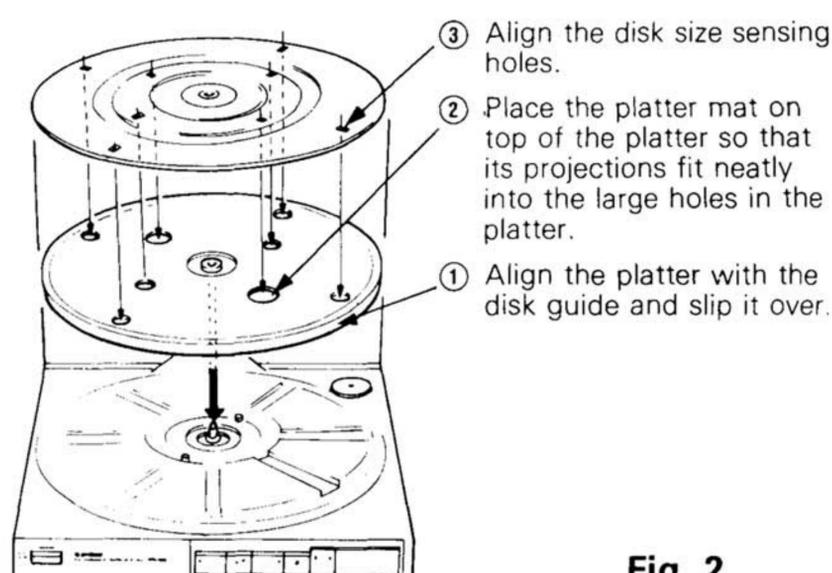


Fig. 2

CONNECTIONS

Refer to Fig. 7 for the connections.

CONTROLS

(See Fig. 6)

① POWER switch

When this is pushed, power is supplied to the unit and the speed indicators ⑦ light. When depressed again, the power to the unit is cut off.

② Tonearm "in" button (◀)

When this is kept in the depressed position, the tonearm ⑭ moves toward the inside. When depressed intermittently, the tonearm (stylus) ⑭ moves in stops and starts.

③ Tonearm lifter button (⏏)

When this button is depressed during play, the stylus rises. Depress the button for resuming play.

* Immediately after the tonearm has risen, it will not descend even if the button is depressed.

④ Tonearm "out" button (▶)

Depress this button to move the tonearm (stylus) toward the outside. It is depressed in the same way as for the tonearm "in" button ②.

⑤ REPEAT button

Depress this button for repeat play and to make the repeat indicator ⑥ light. To release the repeat play function, depress this button or depress the

START/CUT button ⑨ during play.

⑥ Repeat indicator

⑦ Speed/Quartz lock indicators

⑧ Speed selector button

This is automatically set to 33-1/3 rpm for 30 cm disks and to 45 rpm for 17 cm disks. Only when playing 30 cm 45 rpm disks and 17 cm 33-1/3 rpm disks should this button be depressed and the speed set. This button also serves as the quartz lock indicator; once the platter reaches the normal play speed, the indicator corresponding to that speed lights.

⑨ START/CUT button

Depress this button when starting play, and when suspending play.

⑩ Platter

⑪ Platter mat

⑫ Disk guide

⑬ EP adaptor

⑭ Linear tracking tonearm

⑮ Top cabinet

AUTOMATIC PLAY

1. Set the power switch ① to ON (⏻).

The speed indicators ⑦ light up.

2. Place the disk on top of the platter mat. If you are playing an EP disk without a "middle,"

place the EP adaptor over the disk guide.

3. Close the Top cabinet ⑮.

4. Press the START/CUT button ⑨.

■ An optical system is used to detect the size of the disk which is to be played. Automatic play may therefore not be possible with transparent or semi-transparent red, brown, yellow, white, black or other colored disks and with disks which have a pronounced degree of warp or eccentricity. The automatic play mechanism functions properly when disks complying with IEC standards are played. When automatic play is performed when playing disks that do not comply with IEC standards or special disks, the stylus may descend outside the disk and be damaged, or the tonearm

may not return automatically upon completion of play. These types of disks should be played manually: (Refer to the section on MANUAL PLAY.)

Disks with a diameter of 25 cm cannot be played automatically and should therefore be played manually.

- When playing a 30cm disk at 45 rpm or a 17 cm disk at 33-1/3 rpm, set the disk speed properly by pressing the SPEED selector button ⑧ before pressing the START/CUT button ⑨.

■ When play has finished:

- When the turntable has finished playing the disk, the tonearm will return automatically and the platter will stop rotating.
- To play the disk again, press the START/CUT button ⑨.

■ Stopping disk play

- To suspend disk play temporarily, press the tonearm lifter button ③. This causes the tonearm to rise and remain above the disk. When the tonearm lifter button ③ is pressed again, play resumes.
- When the START/CUT button ⑨ is pressed, the tonearm returns and the platter stops rotating.

MANUAL PLAY

1. Perform Steps 1. to 3. of automatic play.
2. Press the Speed selector button ⑧ when playing a 45

rpm disk.

3. Use the tonearm "in" button "◀" ② and tonearm

"out" button "▶" ④ to locate the start position of the disk play.

NOTE

- It should be checked with this operation that the stylus descends on the inside of the disk's outermost groove. If the tonearm lifter button is pressed with the cartridge outside this outermost groove, the stylus may be damaged when it descends outside the disk.

4. Press the tonearm lifter button "▼▼" ③. Play starts.

- In the following cases, the procedure is the same as automatic play.
 - When play has finished
 - When play is to be interrupted

REPEAT/PROGRAM REPEAT PLAY

■ **Listening to all the tracks repeatedly (repeat play)**

1. Perform Steps 1. to 3. of automatic play.
2. Press the REPEAT button ⑤. (The repeat indicator ⑥ lights.)
3. Press the START/CUT button ⑨. Repeat play starts.

■ **Listening to part of a disk repeatedly (program repeat play)**

- **Programming during play**
 1. Perform Steps 1. to 3. of automatic play.
 2. Press the REPEAT button ⑤. (The repeat indicator ⑥ lights.)
 3. Press the START/CUT button ⑨.
 4. **(Setting the start position of repeat play)**

When the stylus reaches the start position of the section on the disk which is to be heard repeatedly, press the tonearm lifter button ③ "▼▼" and the tonearm "in" button "◀" ② simultaneously. The tonearm now rises and play is interrupted. (The repeat indicator ⑥ winks fast.) Press the tonearm lifter button "▼▼" ③ again. Play is resumed.

5. **(Setting the end position of repeat play)**

When the stylus reaches the end position of the section on the disk which is to be heard repeatedly, press the tonearm "out" button "▶" ④ and the tonearm lifter button "▼▼" ③ at the same time. The programmed section is now played repeatedly. (The repeat indicator ⑥ winks slowly.)

Position to be heard repeatedly	From one position on the disk to another position before the end	From the start of the disk to a position before the end	From a position on the disk to the end
Procedure			

- **Programming before play**

1. Perform Steps 1. to 3. of automatic play.
2. Set the speed selector button ⑧ to the position corresponding to the rated speed of the disk.
3. Press the REPEAT button ⑤. (The repeat indicator ⑥ lights.)
4. **(Setting the start position of repeat play)**
Align the stylus with the start position of the section on the disk which is to be heard repeatedly using the tonearm "in" button "◀" ② and tonearm "out" button "▶" ④.
First press the tonearm lifter button "▼▼" ③. And press the tonearm lifter button "▼▼" ③ and the tonearm "in" button "◀" ② simultaneously. (The repeat indicator ⑥ winks fast. The start position of the section is now set.)

5. **(Setting the end position of repeat play)**

Align the stylus with the end position of the section on the disk which is to be heard repeatedly using the tonearm "in" button "◀" ② and tonearm "out" button "▶" ④.
First press the tonearm lifter button "▼▼" ③. And press the tonearm lifter button "▼▼" ③ and the tonearm "out" button "▶" ④ simultaneously. (The repeat indicator ⑥ winks slowly. The end position of the section is set.) The programmed section is repeatedly played.

■ **Stopping repeat/program repeat play**

- Press the REPEAT button ⑤ and the START/CUT button ⑨.

TIMER PLAY

1. Connect the turntable's power cord to the amplifier or the timer.
2. Perform Steps 1. to 3. of automatic play.

3. Align the stylus with the position of the section on the disk which is to be played using the tonearm "in" button "◀" ② and tonearm "out" button "▶" ④.

(When a 30 cm disk is to be played from the start and the tonearm "in" button "◀" ② is then pressed momentarily, the tonearm moves across to the play start position.)

- Set the timer to the desired time. Play starts automatically at the set time.

CAUTION: Timer play operations cannot be performed with records which cannot be played automatically. (See page 3)

MAINTENANCE

■ Replacing the stylus

When the sound becomes distorted or noisy, check the stylus to see whether it is worn out or not. If worn out, replace it with a new one.

(Removing the stylus)

- Move the tonearm a little toward the inside using the tonearm "in" button "◀" ②.
- As shown in the figure, pull the stylus toward you and draw it out gently. Attach the new stylus following the procedure for removing the old stylus in reverse. (See Fig. 3).

■ Replacing the cartridge

The cartridge of this unit can be replaced with a plug-

in connector type of cartridge available from your dealer. Neither the stylus' pressure nor position need be adjusted.

(How to replace the cartridge.)

- As with "Replacing the stylus" move the tonearm slightly toward the inside using the tonearm "in" button "◀" ②.
- Remove the screw that holds the cartridge with a small screwdriver (see Fig. 4), hold the tonearm and pull out the cartridge gently (see Fig. 5).
- Align the pins in the new cartridge with the holes in the tonearm, insert the pins into the holes until they will go no further and then tighten up the screw.

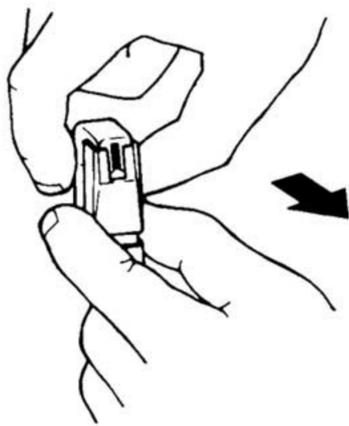


Fig. 3

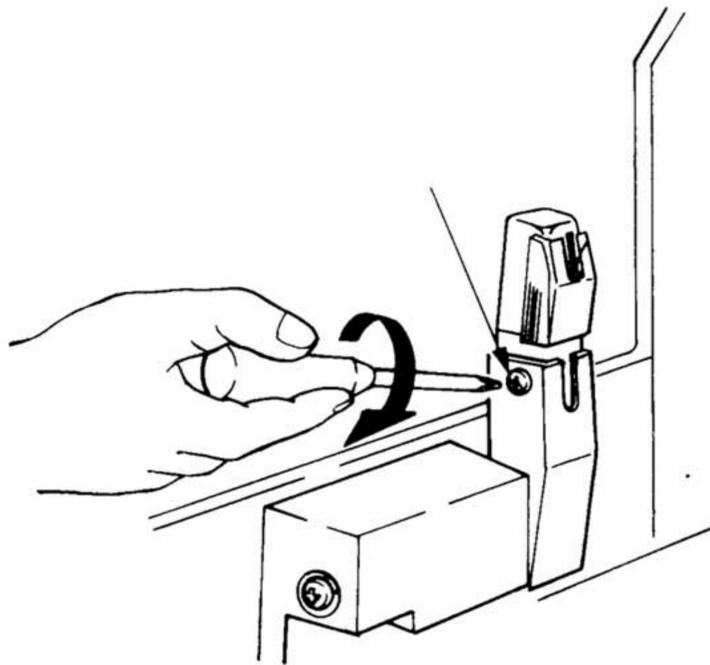


Fig. 4

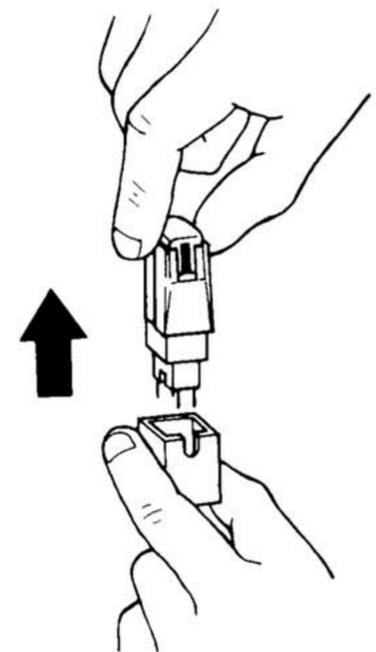


Fig. 5

SPECIFICATIONS

Design and specifications subject to change without notice for further improvement.

Type	2-speed quartz controlled direct drive fully automatic turntable
Platter	Aluminum alloy die-cast, 296 mm outer diameter
Motor	Brushless, Slotless, Coreless DC servo "Unitorque" motor
Speed	2 speeds; 33-1/3 and 45 rpm
Speed change system	Electronic change-over system
S/N	78 dB (DIN-B)
Wow and flutter	0.025% (WRMS)
Speed deviation	0.003%
Speed drift	
(for time)	0.003%/hour
(for temperature)	0.003% (5 – 35°C)
Tonearm	Linear tracking tonearm
Effective length	95 mm
Tracking error	+0.1°
Lead wire capacitance	140 pF

Cartridge	Dual magnet type (MT-33)
Frequency response	10 – 25,000 Hz
Output voltage	3.5 mV at 1 kHz, 50 mm/sec.
Channel difference	1 dB at 1 kHz
Channel separation	23 dB at 1 kHz
Tracking force	1.25 ± 0.25 g
Weight	5.9 g
Stylus tip	Diamond stylus (DS-ST33)
Power source	120 V 60 Hz for U.S.A. and Canada standard 220 V 50 Hz for Europe standard 240 V 50 Hz for U.K. and Australia standard 110–120/220–240 V 50/60 Hz for Asian and Latin American countries
Power consumption	15 watts
Dimensions	315 (W) x 83 (H) x 315 (D)mm
Weight	4.5 kg (10 lbs.)

NAMES OF THE PARTS/BEZEICHNUNG DER TEILE/NOMENCLATURE DES PIÈCES/NOME DELLE PARTI/BENAMING VAN DE ONDERDELEN/NOMBRE DE LAS PARTES

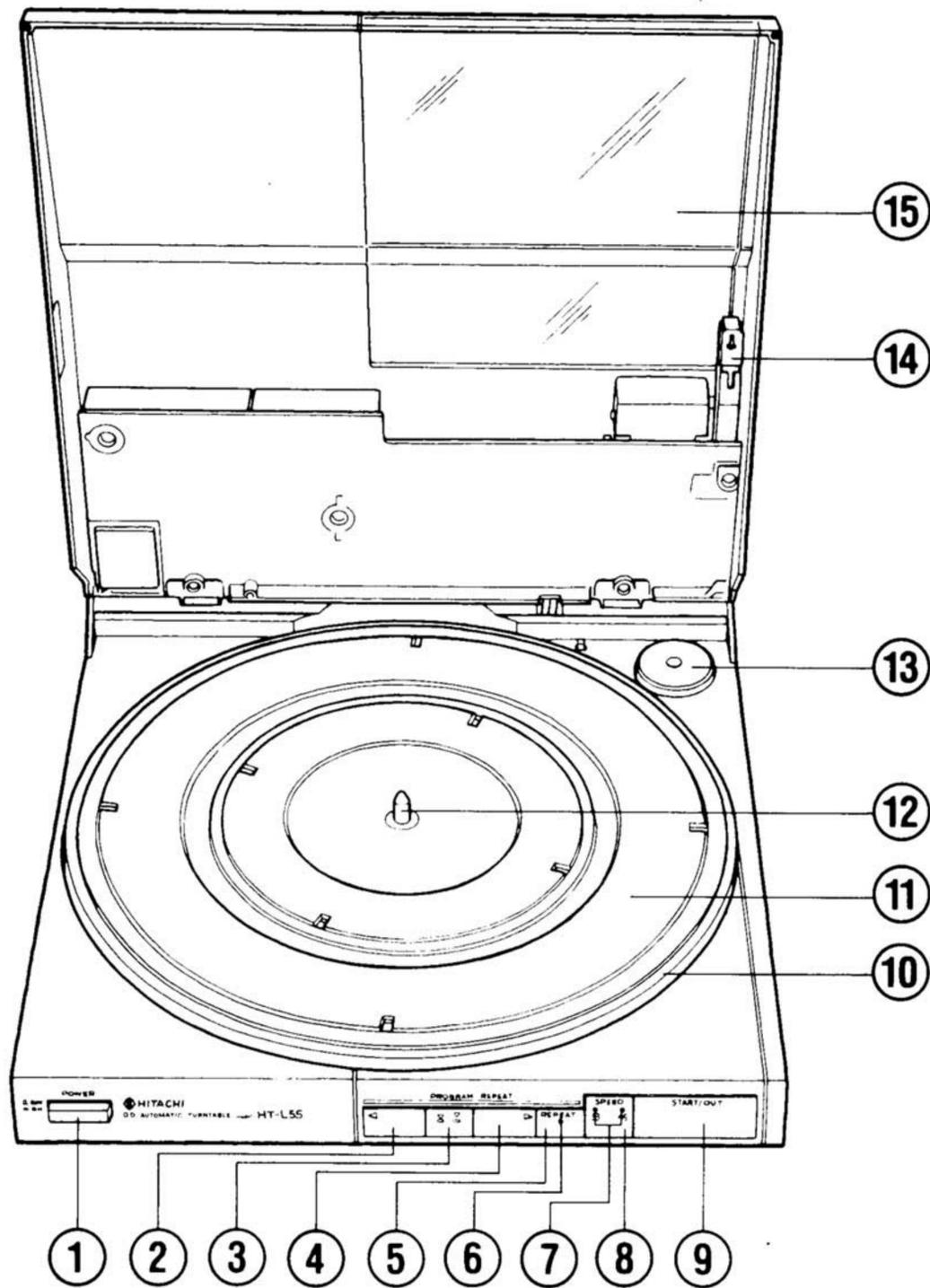


Fig. 6
Abb. 6

CONNECTIONS WITH AMPLIFIER/ANSCHLÜSSE AN EINEN VERSTÄRKER/BRANCHEMENTS AVEC L'AMPLIFICATEUR/COLLEGAMENTO ALL'AMPLIFICATORE/AANSLUITING OP DE VERSTERKER/CONEXIONES CON EL AMPLIFICADOR

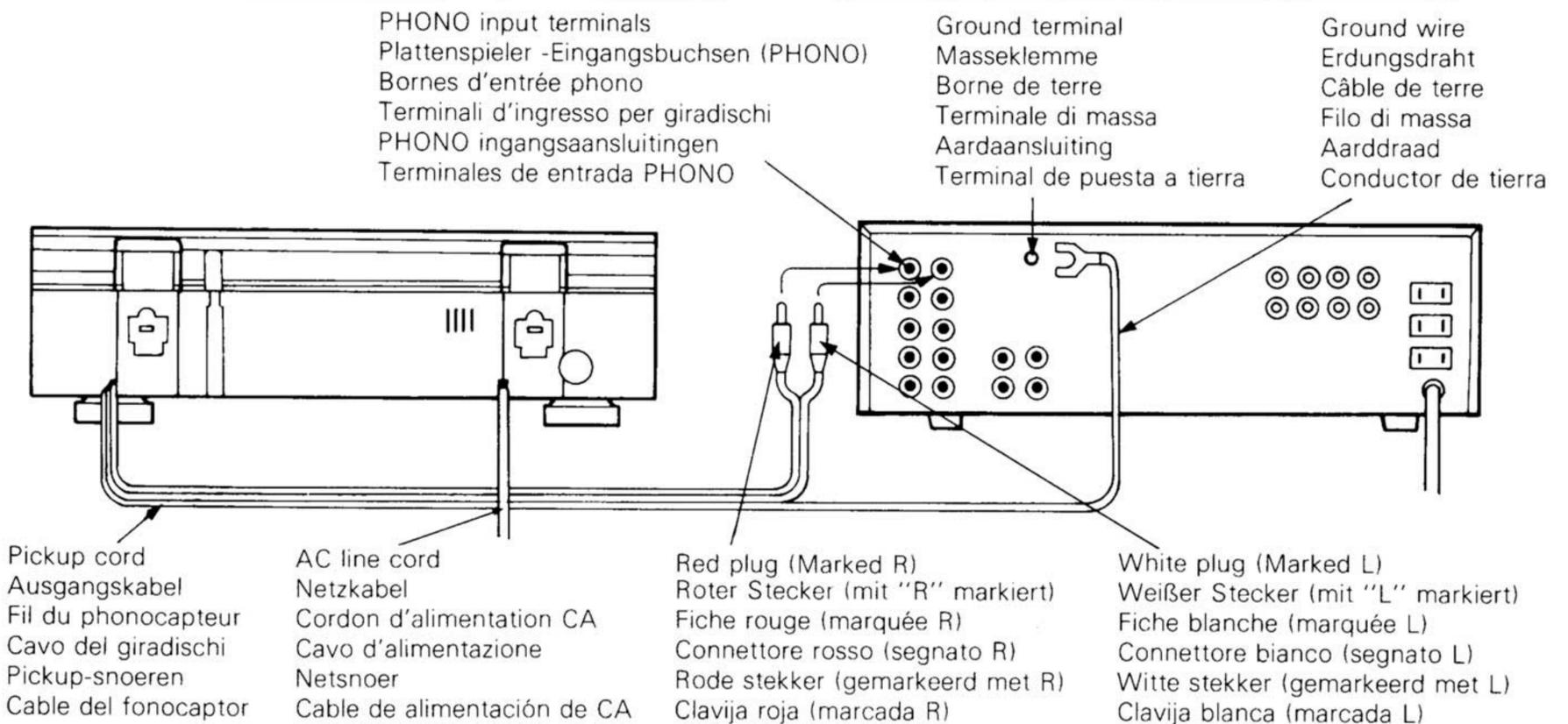


Fig. 7
Abb. 7

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