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**SONY®**

**STEREO TURNTABLE SYSTEM**

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**PS-LX910**

**OPERATING INSTRUCTIONS** **Page 4**

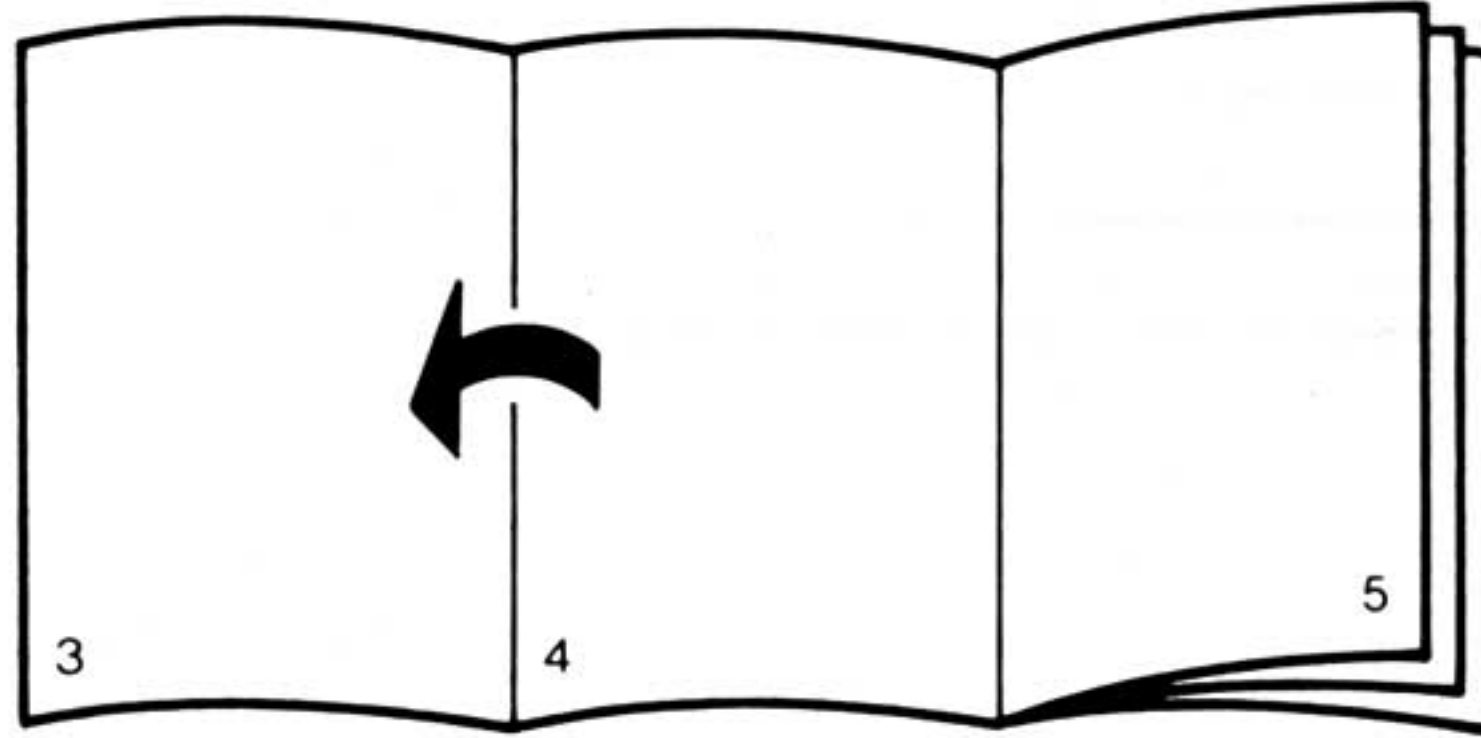
Before operating the unit, please read this manual thoroughly and retain it for future reference.

1986 by Sony Corporation

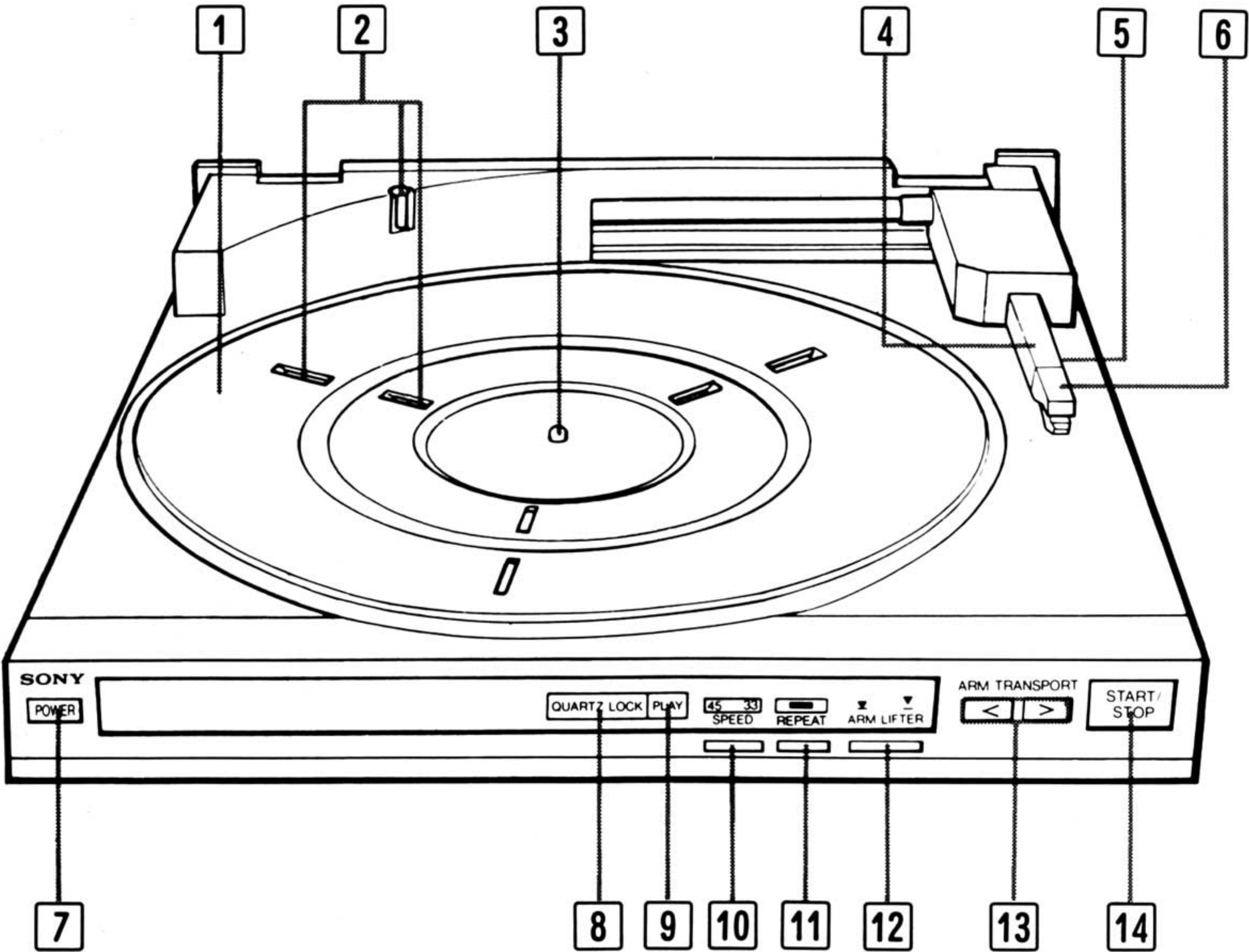
As you read, fold back the manual cover to refer to information on operation.

Au cours de la lecture, déplier la couverture de ce mode d'emploi pour se référer aux instructions sur le fonctionnement.

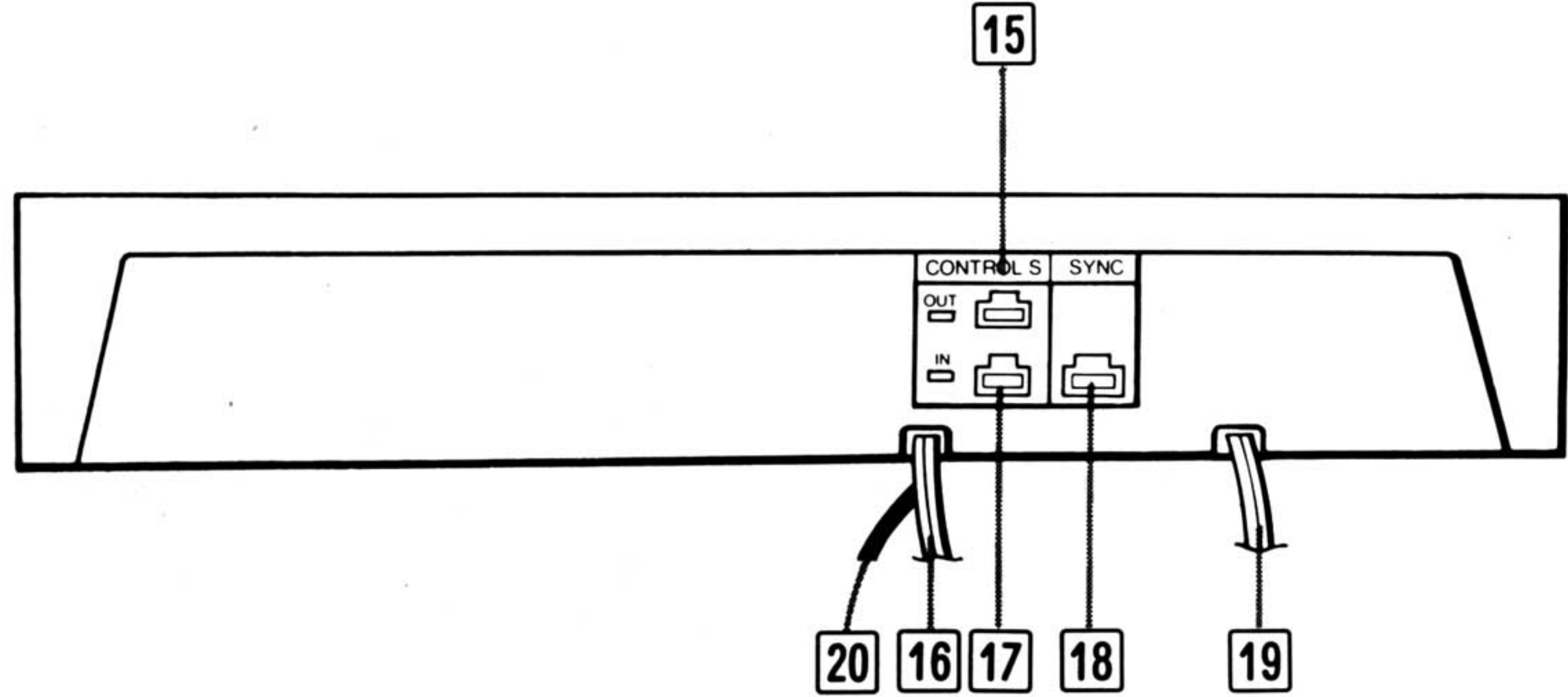
Al leer, desdoble la portada del manual, y refiérase a la información sobre la operación.



Front panel/Panneau avant/Panel frontal



Rear panel/Panneau arrière/Panel posterior



Each number is keyed to the descriptive text in “FUNCTION OF CONTROLS”.

Chaque numéro trouve son correspondant dans le texte explicatif, dans le chapitre “FONCTION DES COMMANDES”.

Cada número corresponde al del texto descriptivo en “FUNCIÓN DE LOS CONTROLES”.



WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

For the Customers in the United Kingdom

The mains lead plug of this apparatus is a 2-pin type designed to be connected only to other apparatus equipped with a suitable socket outlet. If the plug cannot be used in this way, cut off the plug and fit an appropriate one as follows.

Important

The wires in the mains lead are coloured in accordance with the following code.

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING

To prevent shock hazard, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be discarded.

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PRECAUTIONS

On safety

- Before operating the unit, check that the operating voltage of your unit is identical with that of your local power supply.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- The unit is not disconnected from the ac power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.

On installation

- Place the turntable on a level surface.
- Avoid placing the unit near electrical appliances (such as a television, hair dryer, or fluorescent lamp) which may cause hum or noise.
- Place the turntable where it will not be subject to any vibration, such as from speakers, slamming of doors, etc.
- Keep the unit away from direct sunlight, extremes of temperature, and excessive dust and moisture.

On repacking

Do not throw away the carton and packing materials. It is an ideal container in which to transport the unit. When shipping the unit to another location, repack it as illustrated on the carton box.

On cleaning

Before playing a record, clean the stylus with a soft brush. Brush the stylus from back to front. Never attempt to clean the stylus with your finger tip. If a fluid stylus cleaner is used, make sure not to moisten the stylus too much. Clean the cabinet and dust cover periodically with a soft dry cloth. If the stains are difficult to remove, use a cloth moistened with a mild detergent solution. Do not use solvents such as alcohol, benzine or thinner, since they will damage the finish.

OPERATING VOLTAGE

Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage. The European model (type 1) operates on 220 V ac (or 240 V ac adjustable by authorized Sony personnel). The United Kingdom model (type 2) operates on 240 V ac (or 220 V ac adjustable by authorized Sony personnel). The model for other countries (type 3) operates on either 110 – 120 or 220 – 240 V ac. The voltage selector is located on the bottom. If the selector must be reset, **disconnect the ac power cord** and slide the selector to the appropriate voltage. For customer of the type 3 model supplied with the plug adaptor: If necessary, use the plug adaptor to connect the turntable to an ac outlet in the house. However, when making power connections among the Sony components, this adaptor is not needed.



# FUNCTION OF CONTROLS

Each number in the text is keyed to that of the illustration on page 3.

## FRONT PANEL

- 1 Rubber mat**
- 2 Auto-record-size selection holes and lamp**  
See “AUTO-RECORD-SIZE SELECTION SYSTEM” on page 9.
- 3 Center spindle**
- 4 Tonearm**
- 5 Cartridge locking screw**
- 6 Cartridge**
- 7 POWER switch**
- 8 QUARTZ LOCK indicator**  
The indicator illuminates when the turntable rotation is locked to the nominal speed by the quartz lock control system. The indicator goes out when the turntable rotation is out of the nominal speed.
- 9 START indicator**  
The indicator lights up when play starts.
- 10 SPEED selector and indicators**  
Selects the speed of the record. When the POWER switch is turned on, the speed is always 33<sup>1</sup>/<sub>3</sub> rpm and the indicator on the right illuminates. Press this button to play a 45 rpm record. The indicator on the left lights up.
- 11 REPEAT button and indicator**  
Press this button to repeat play.  
The indicator lights up. To cancel the repeat play, press it again.
- 12 ARM LIFTER button**  
Press this button to lift and lower the tonearm.  
When the tonearm is on the arm rest position, it cannot be lifted up with this button.
- 13 ARM TRANSPORT button**  
Press this button to move the tonearm inwards or outwards.
- 14 START/STOP button**  
Press this button to start the record playing. To stop during play, press it again.

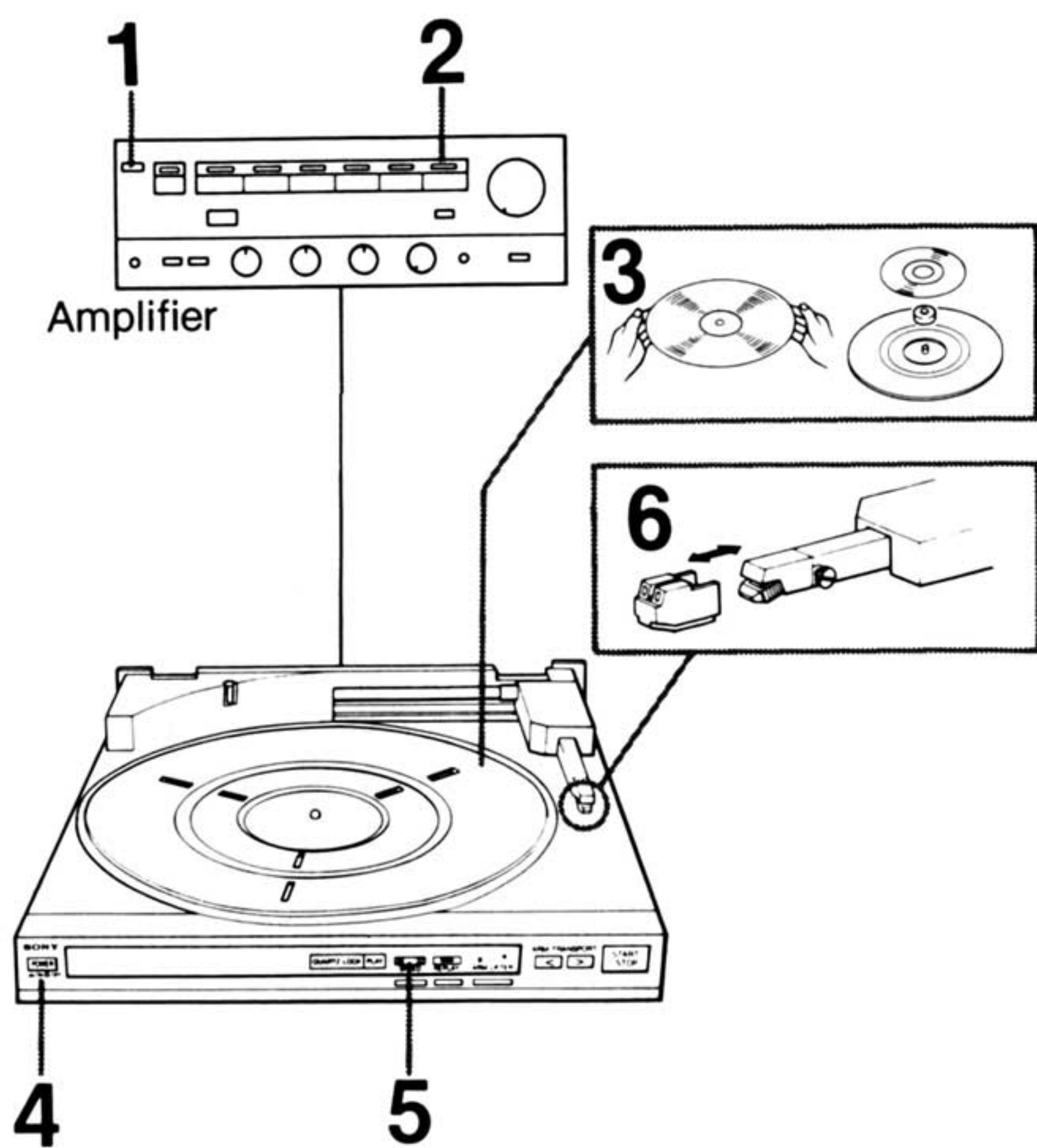
## REAR PANEL

- 15 CONTROL S OUT connector (4-pin)**  
Connect to the CONTROL S IN or **R** REMOTE IN connector of other Sony audio equipment for remote control of the total audio system.
- 16 Phono cord**
- 17 CONTROL S IN connector (4-pin)**  
Connect to the CONTROL S OUT or **R** REMOTE OUT connector of other Sony audio equipments with the supplied flat 4-pin remote control cord for remote control of the total audio system.
- 18 SYNC connector (3-pin)**  
Connect to synchro connector of the Sony cassette deck for synchronized recording with the supplied synchro connecting cord (3-pin).
- 19 Power cord**
- 20 Ground wire**



# RECORD PLAYING

## Preparation

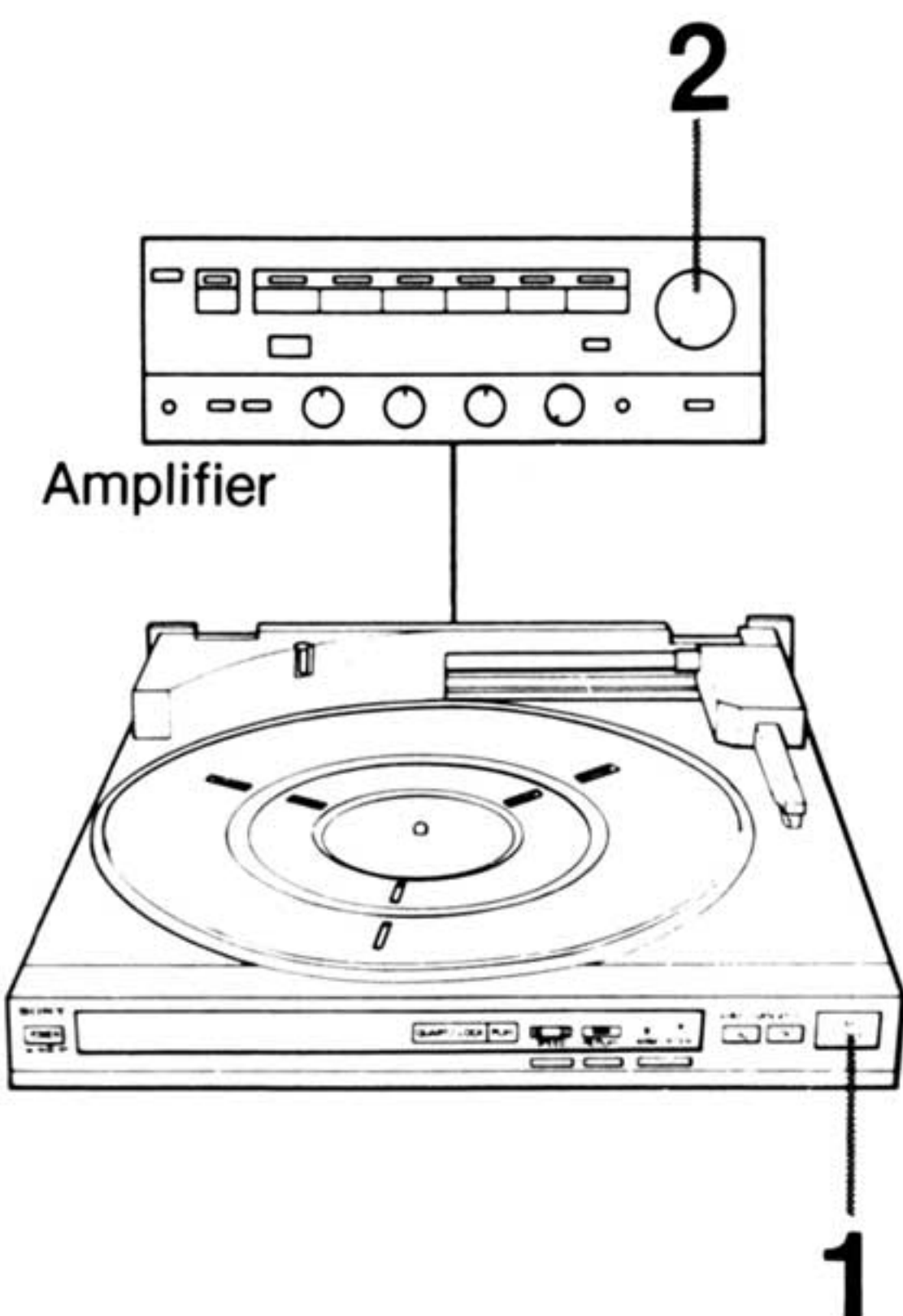


- 1 Press the POWER switch of the amplifier.
- 2 Set the input selector of the amplifier to PHONO.
- 3 Place a record on the platter.
- 4 Press the POWER switch of the turntable system.
- 5 Set the SPEED selector according to the record being played.
- 6 Remove the stylus cover.

For assembling the turntable, refer to page 10.

# AUTO PLAY

## To begin record play from the beginning of the record



- 1 Press the START/STOP button.  
Play begins.
- 2 Adjust the volume control of an amplifier.

When the tonearm reaches the end of the record, it will automatically return to the arm rest position.  
To stop during play, press the START/STOP button.

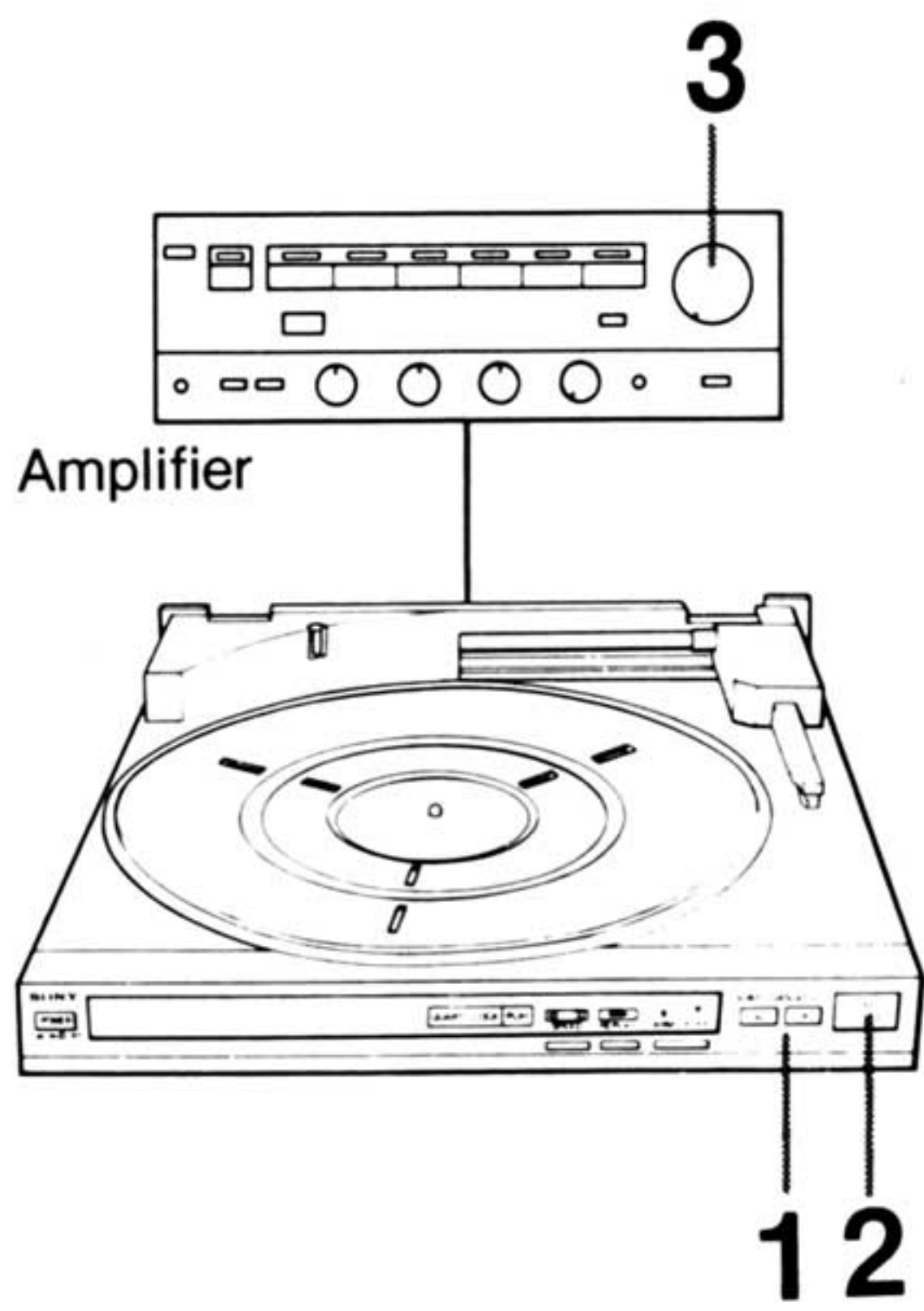
### Notes

- 25 cm (10 in.) records and transparent records cannot be played automatically. To play these records, proceed as in “Auto-record-size selection system” on page 9.
- Do not press the POWER switch while playing or while the tonearm is returning to the arm rest position. If you do so the tonearm will stop at the point and will continue returning to the arm rest position when the POWER switch is turned on the next time.



# MANUAL PLAY

To begin record play at a particular point



- 1 Press the button to move the tonearm to the desired position. If the tonearm is moved excessively, press the button to return it.
- 2 Press the START/STOP button. Play begins.
- 3 Adjust the volume control of an amplifier.

When the tonearm reaches the end of the record, it will automatically return to the arm rest position.  
To stop play, press the START/STOP button.

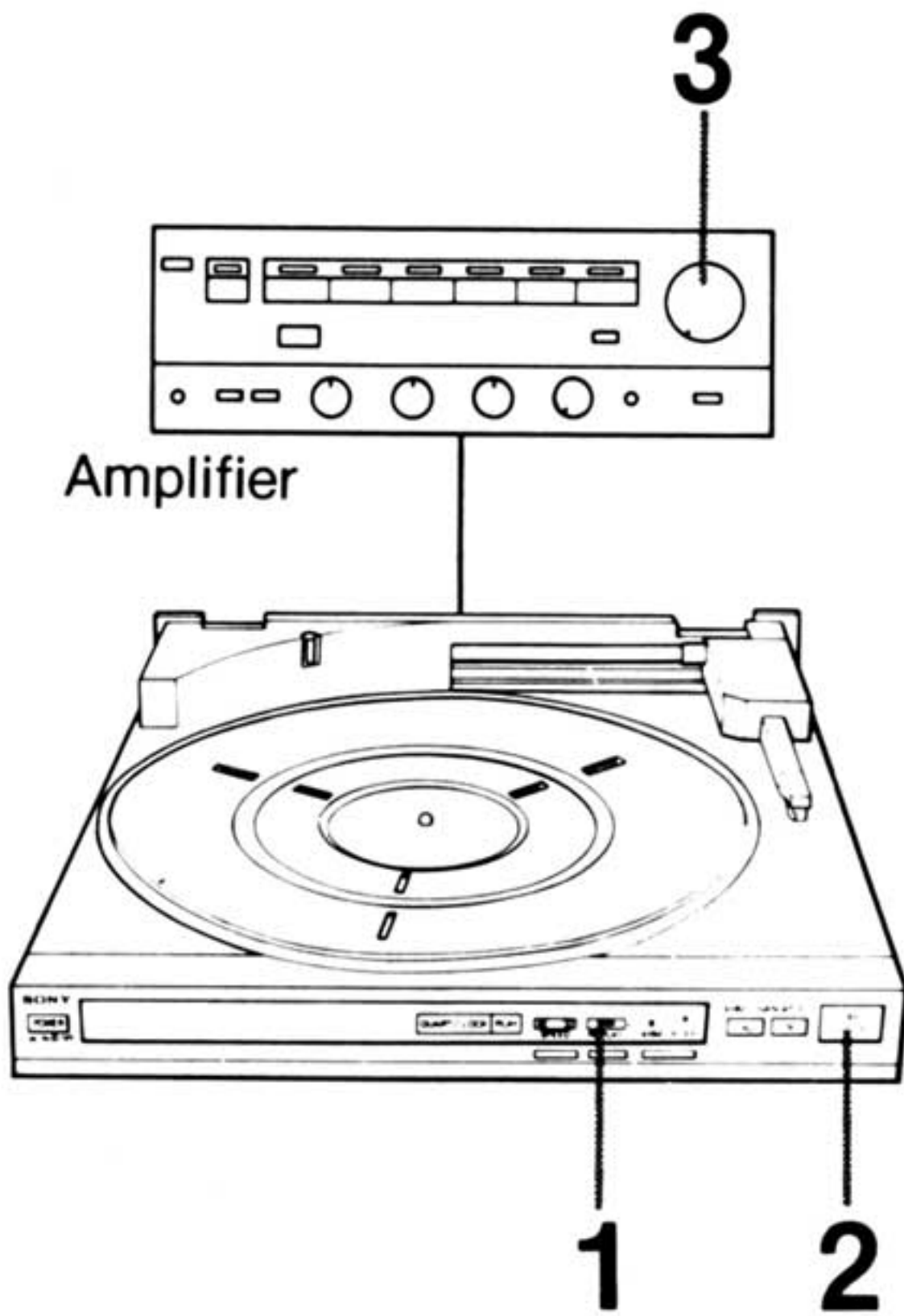
**Note:** Warped records cannot be played. Damage can be done to the stylus or to the arm mechanism of the record player. Make sure your records are in satisfactory condition before placing them on the platter.

**To move to a different part of a record during play**  
Press the ARM TRANSPORT button ( or ) and press the ARM LIFTER button to start play.

**To lift up the stylus during play**  
Press the ARM LIFTER button. To lower the tonearm onto the record, press the button again. Playing will start from the same point.

# REPEAT PLAY

To listen to one side of record repeatedly



- 1 Press the REPEAT button. The indicator lights up.
- 2 Press the START/STOP button. Play begins.
- 3 Adjust the volume control of an amplifier.

**To repeat during play**  
Press the REPEAT button.  
The indicator above the REPEAT button lights up. When the music comes to an end, the tonearm goes back to the outer edge of a record and it repeats the music from the beginning.

**To cancel repeat play**  
Press the REPEAT button.  
The indicator above the REPEAT button goes out. When the music comes to an end, the tonearm goes back to the right edge and turntable stops.

**To stop during repeat play**  
Press the START/STOP button.  
The indicator above the REPEAT button goes out. The tonearm lifts up and goes back to the right edge. (Turntable stops.)

**Note:** 25 cm (10 in.) records and transparent records cannot be played repeatedly.

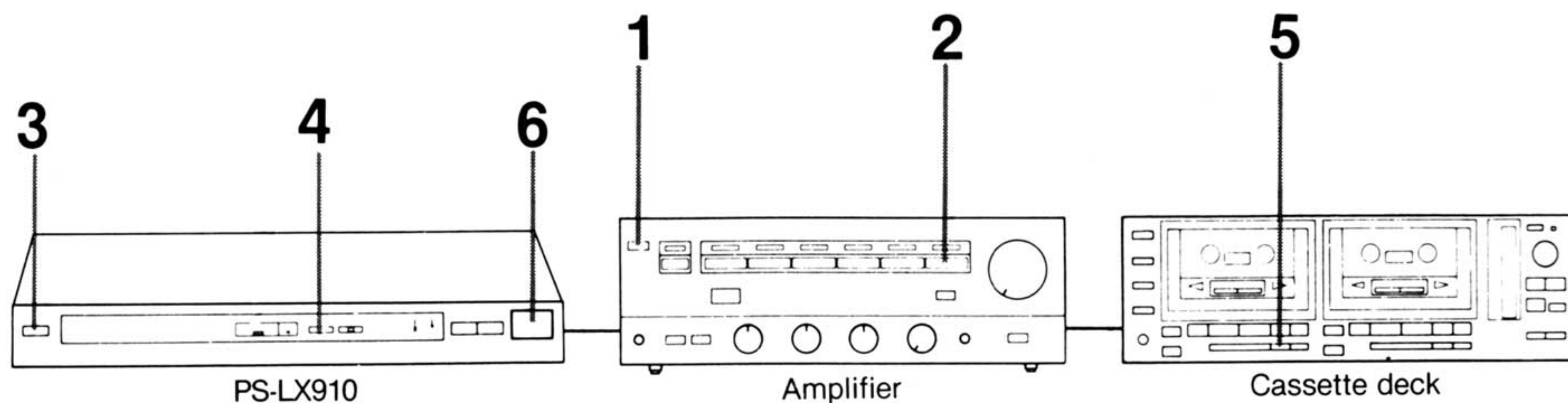


# SYNCHRONIZED PLAY OF THE TURNTABLE AND A CASSETTE DECK

This function is convenient for making original music tape by changing the order of music in a record or by selecting your favorite music from several records.

Cassette decks which can be used with your turntable system for this special synchronized operation are those Sony models which are equipped with a 3-pin synchro remote control connector.

For connection, see connection diagram on page 11.



- 1** Press the POWER switch of the amplifier.
- 2** Set the input selector of the amplifier to PHONO.
- 3** Press the POWER switch of the turntable system.
- 4** Set the SPEED selector according to the record to be played and place the record on the platter.
- 5** Adjust the recording level of the tape deck and set it in the record stand-by mode.
- 6** To record music from the beginning of a record, press the START/STOP button.  
To record music in the middle of a record, move the tonearm on the desired music, and press the START/STOP button.

When the tonearm comes down on a record, the recording pause mode of the deck is released and the recording starts.

## To stop recording

Press the START/STOP button.

## To lift up the tonearm to move to a different point on a record

Press the ARM TRANSPORT button.

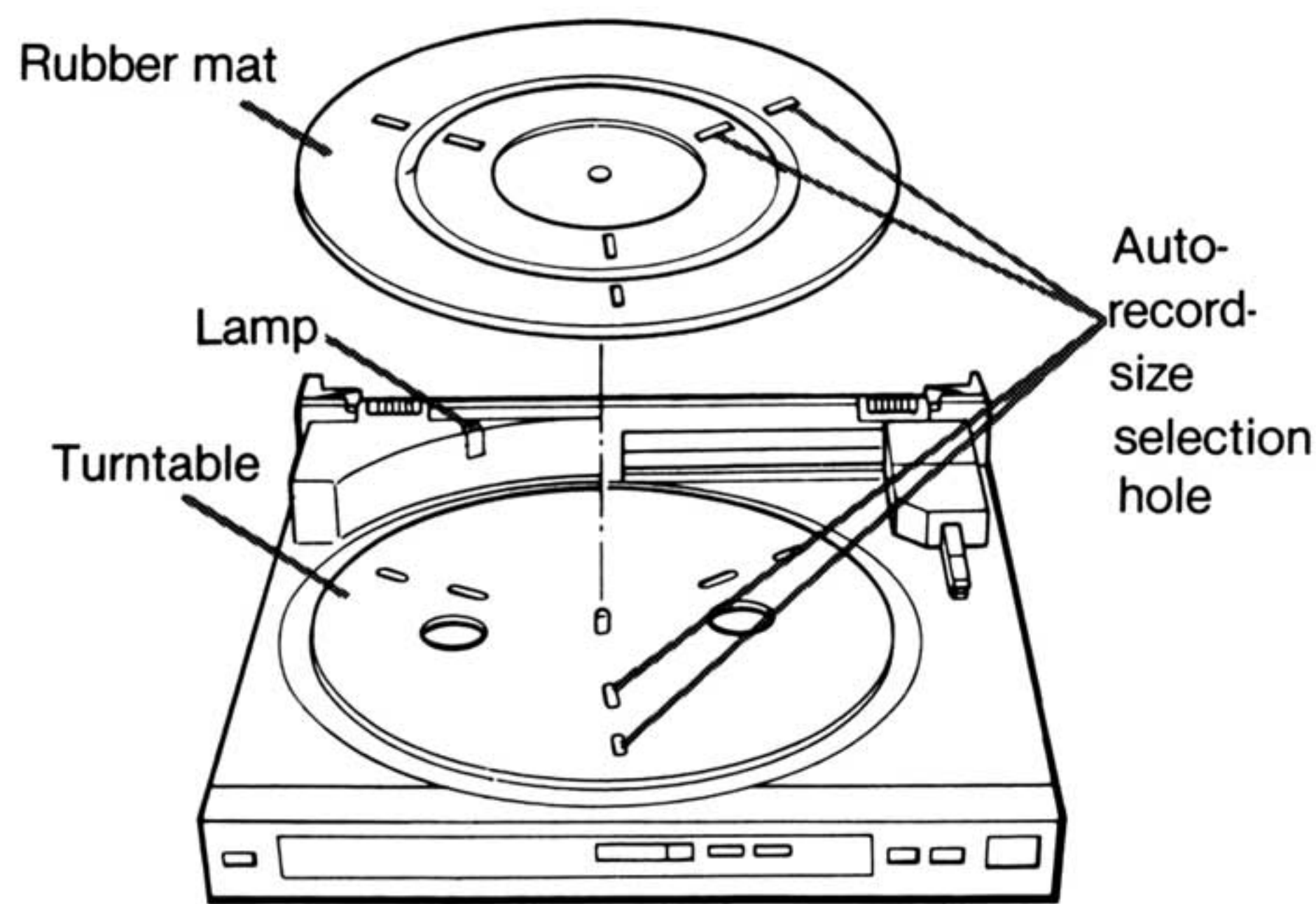
## Notes

- When the PS-LX910 is not in use, be sure to set the POWER switch to OFF (□).
- To carry out synchronized recording, be sure to connect both the synchro remote control cord and audio cord, and the ground wire to the  $\perp$  terminal of the amplifier. If not, synchro operation is not possible.
- When synchronized recording is not required, be sure to disconnect the synchro remote control cord.

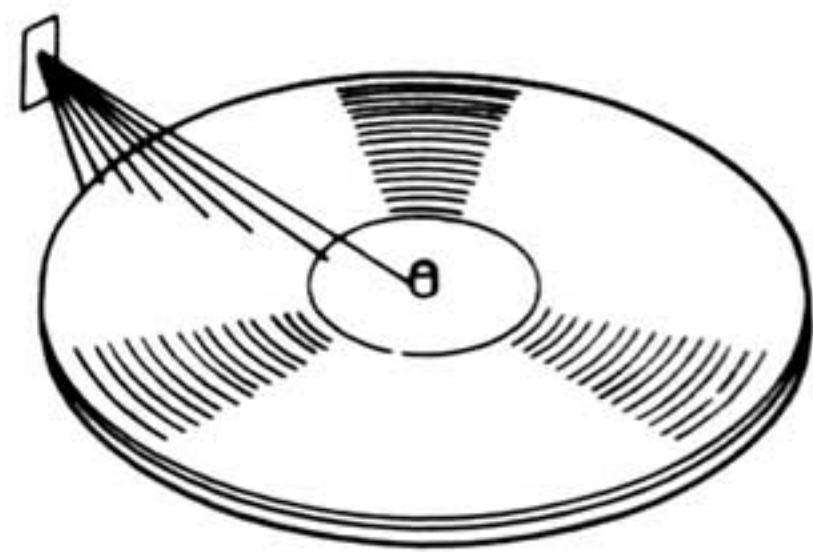


# AUTO-RECORD-SIZE SELECTION SYSTEM

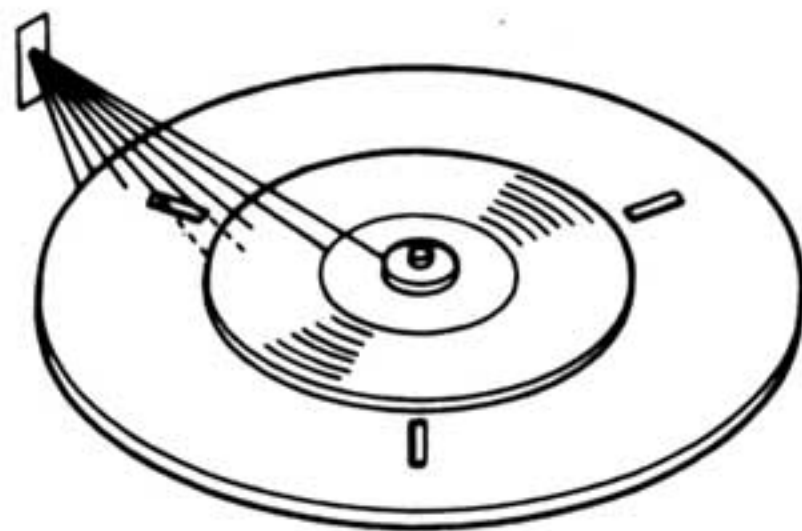
The auto-record-size selection system which only works during auto play, serves to detect using a beam from the lamp and the photo detectors whether there is a record or not on the platter and also to determine the record size.



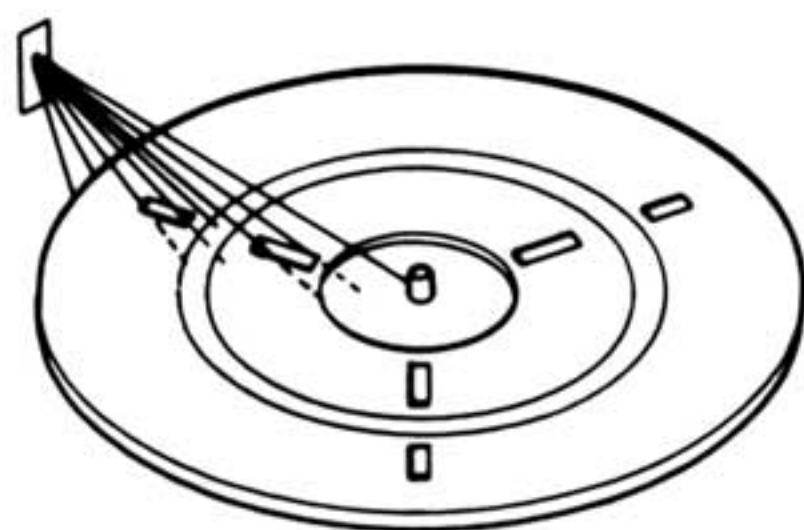
**When a 30 cm record is to be played,** both inner and outer holes are covered so no beam is transmitted to the photo detectors.



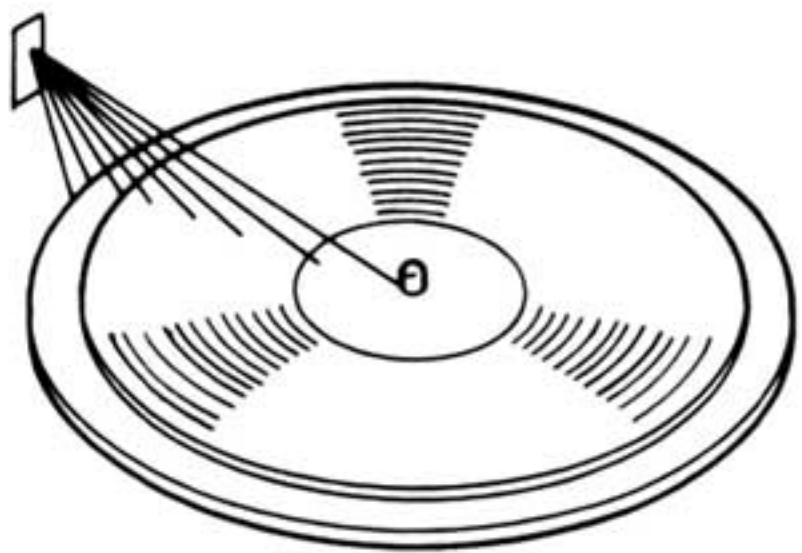
**When 17 cm record is to be played,** the inner holes are covered so a beam is transmitted through the outer holes to the photo detector.




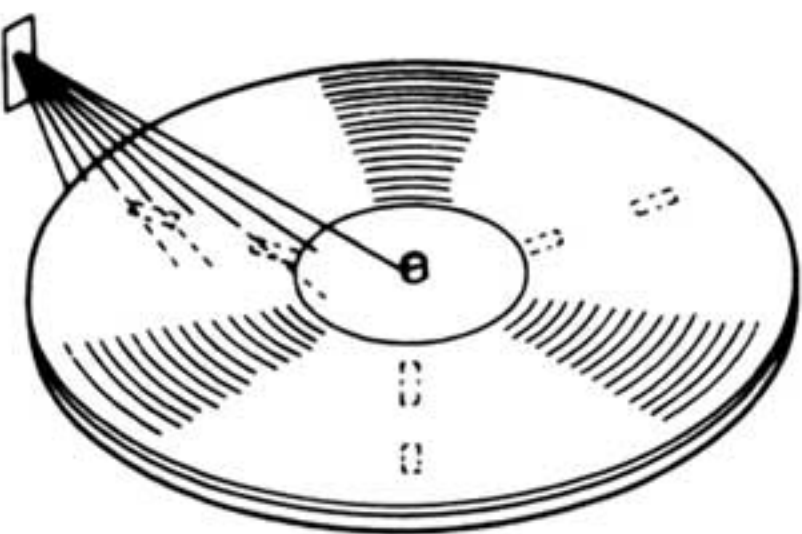
**When there is no record on the platter,** a beam is transmitted through both the inner and outer holes to the photo detectors. Even if the START/STOP button is accidentally pressed, the tonearm does not lower.



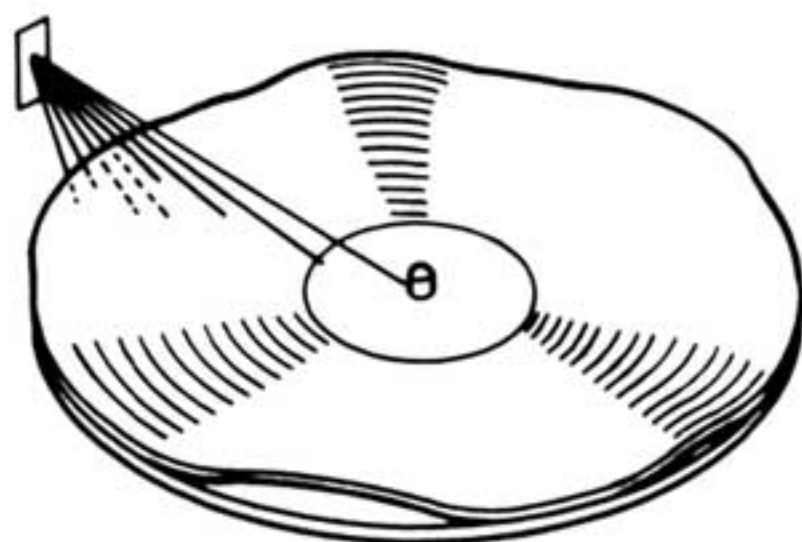
**When a 25 cm record is to be played,** the tonearm lowers to the same point that it would if a 30 cm record were on the platter, since both the inner and outer holes are covered. To play a 25 cm record, proceed as in "MANUAL PLAY". At the end of the record, the tonearm will not automatically return to the arm rest position.



**When a transparent record is to be played,** a beam passes through both the inner and outer holes to the detectors so the tonearm does not lower onto the record. To play a transparent record, press the  button to move the tonearm to the desired position and after putting the stylus on the position by pressing the ARM LIFTER button. Then, press the START/STOP button. In this case, auto-return will not activate at the end of the record. Press the START/STOP button to return the tonearm to the arm rest position. The beam (infrared) sometimes passes through the normal record. Play these records as described above.



**When a badly warped record is to be played,** a beam may pass through the holes to the detector(s) and cause a malfunction of the auto record size selection. To play a warped record, proceed as in described above. In this case, auto-return will not activate at the end of the record. Press the START/STOP button to return the tonearm to the arm rest position.



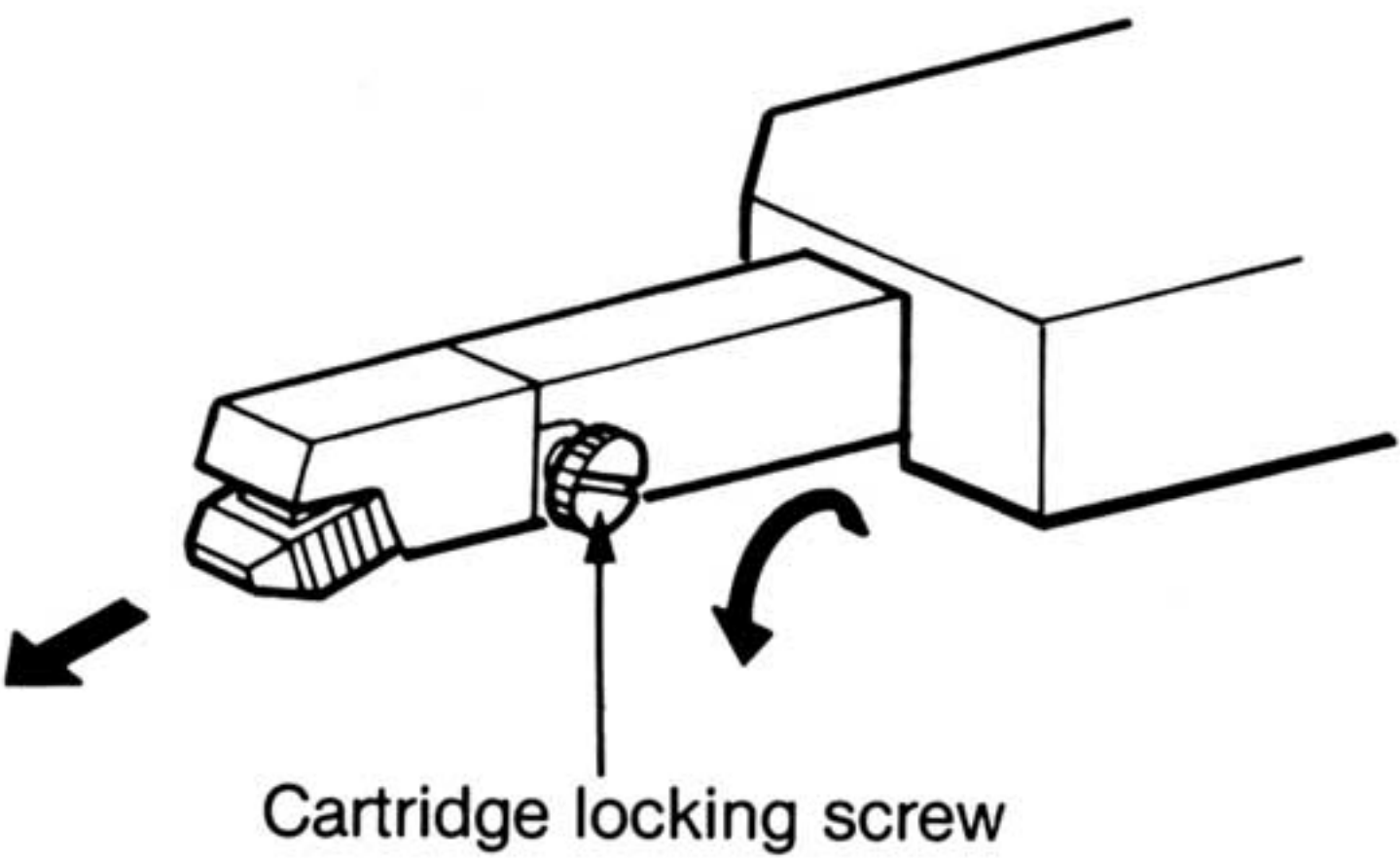


# REPLACING THE STYLUS

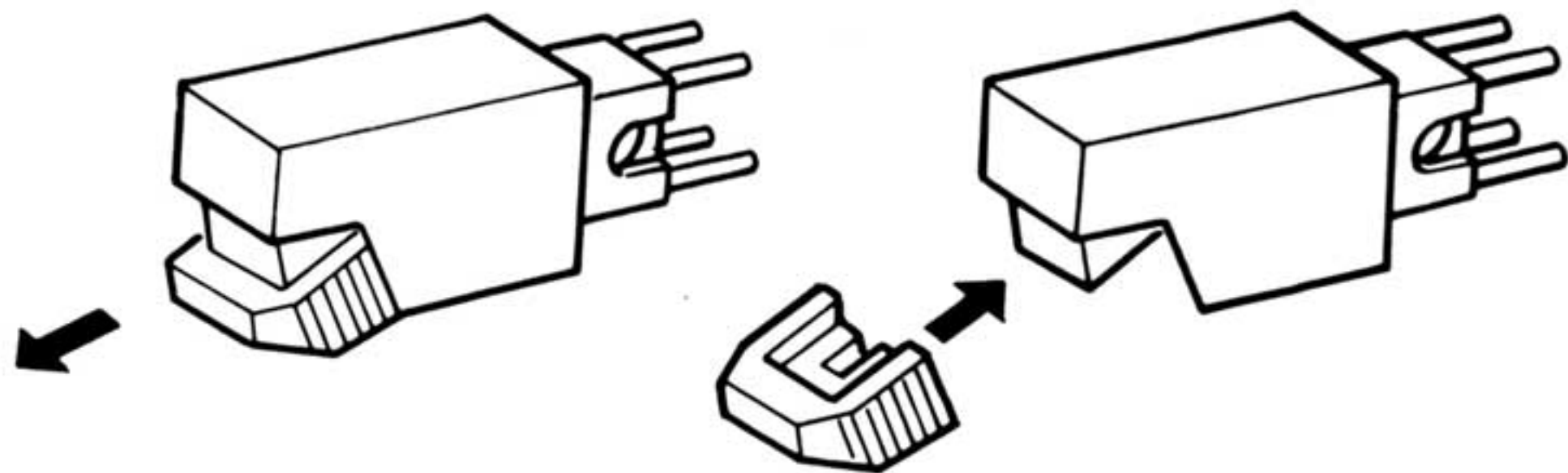
Replace the stylus after about 400 hours of use because using a worn stylus will damage records.  
An ND-300G replacement stylus is available at your Sony dealer.

The **TAP** label indicates that a cartridge is a standardized plug-in type.

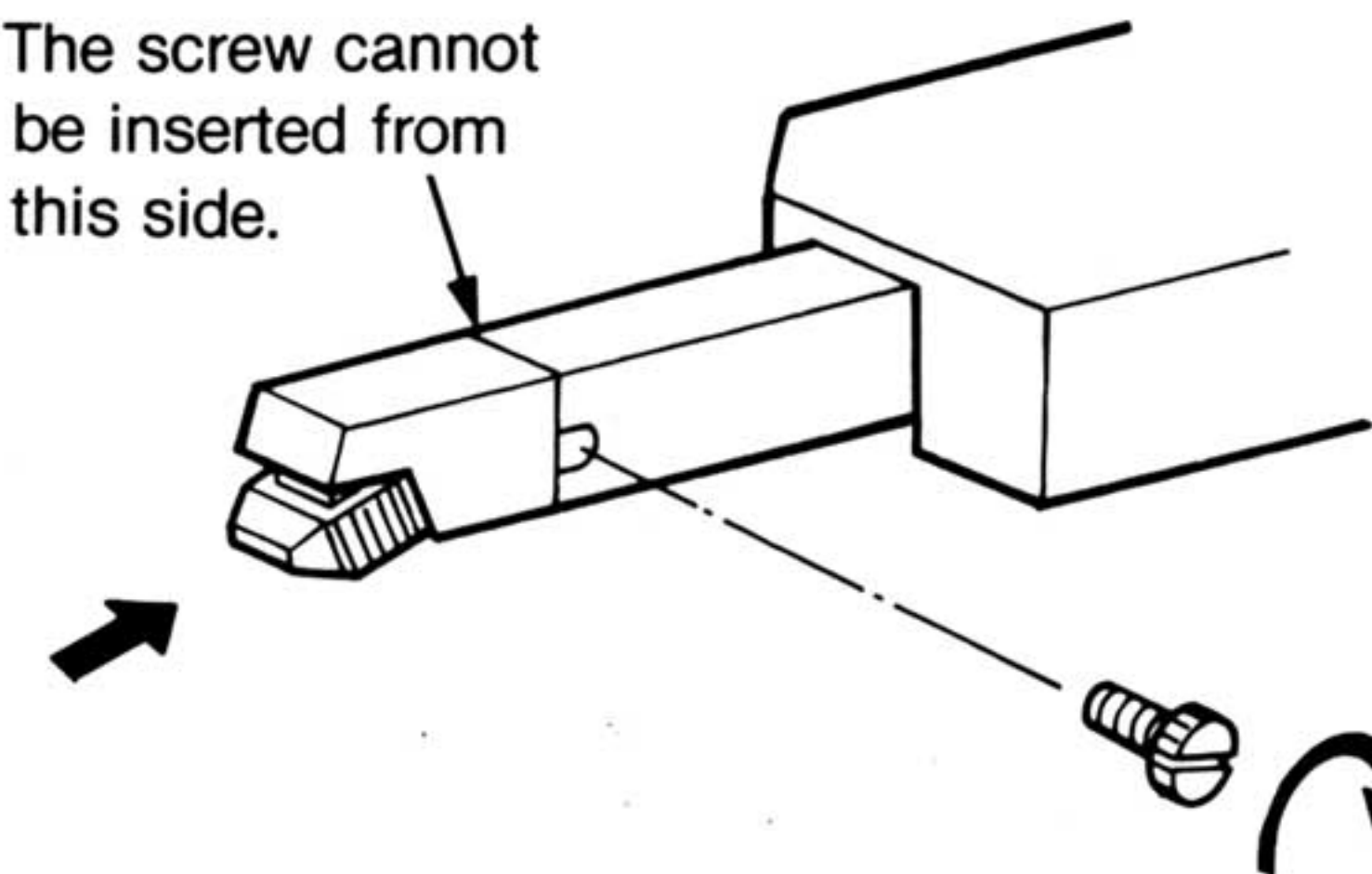
- 1 First remove the cartridge locking screw and remove the cartridge.



- 2 Detach the stylus assembly and insert a new stylus into the cartridge.



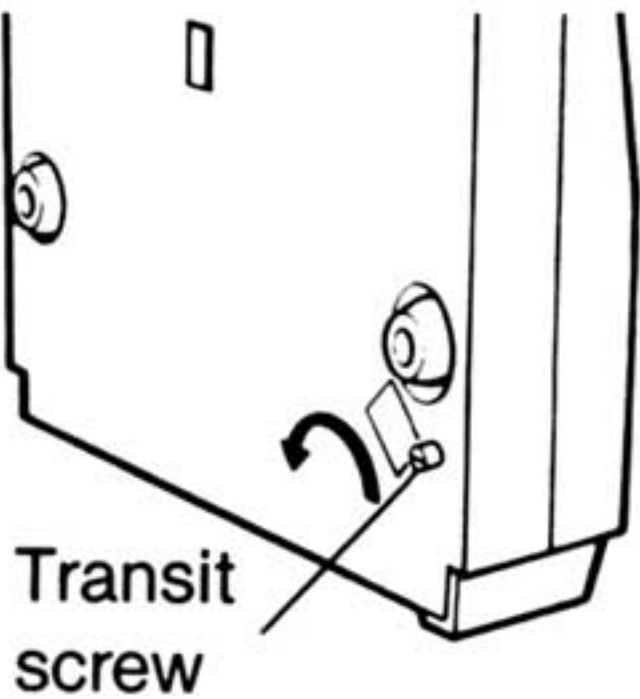
- 3 Plug the cartridge into the tonearm and tighten the cartridge locking screw firmly.



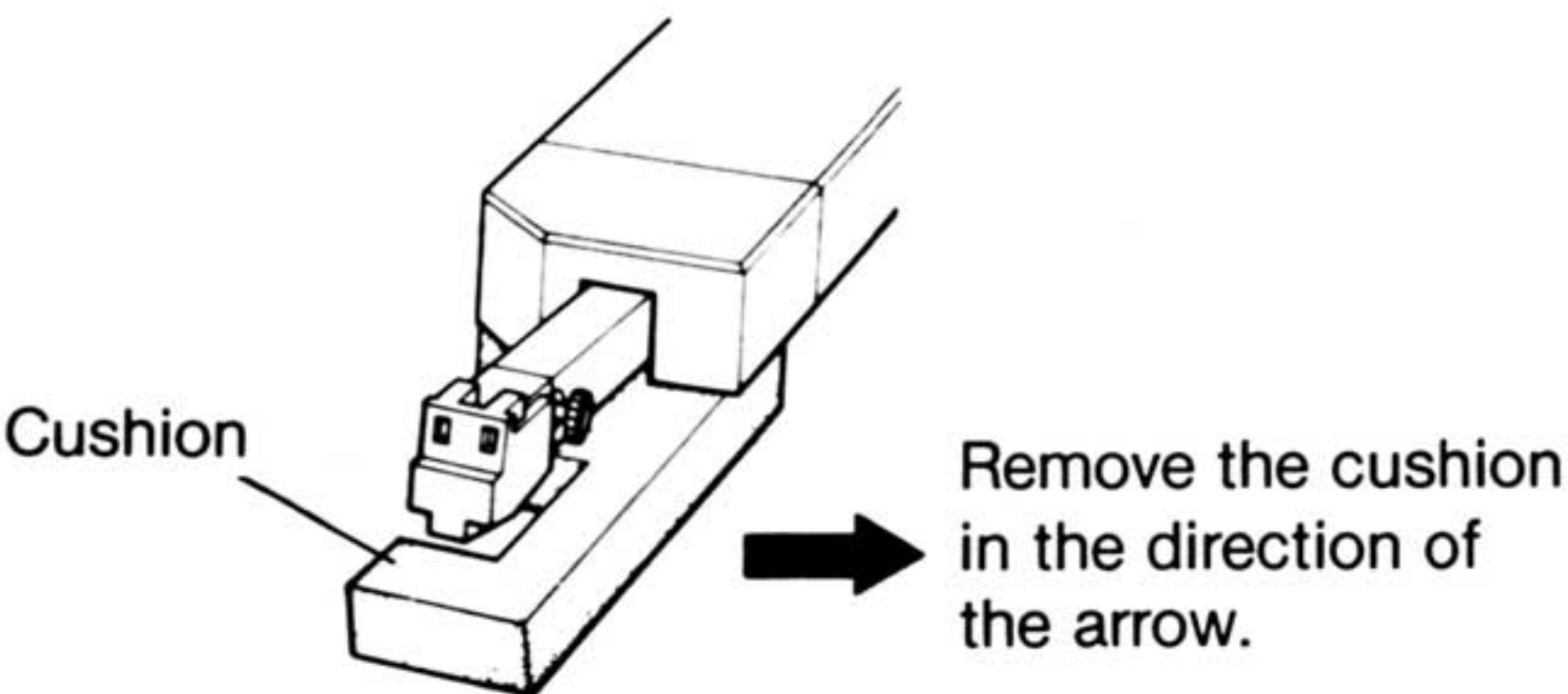
# TURNTABLE ASSEMBLY

Do not connect the connecting cords until the turntable has been completely assembled.  
Remove all packing material and save the packing box and materials for possible future use.

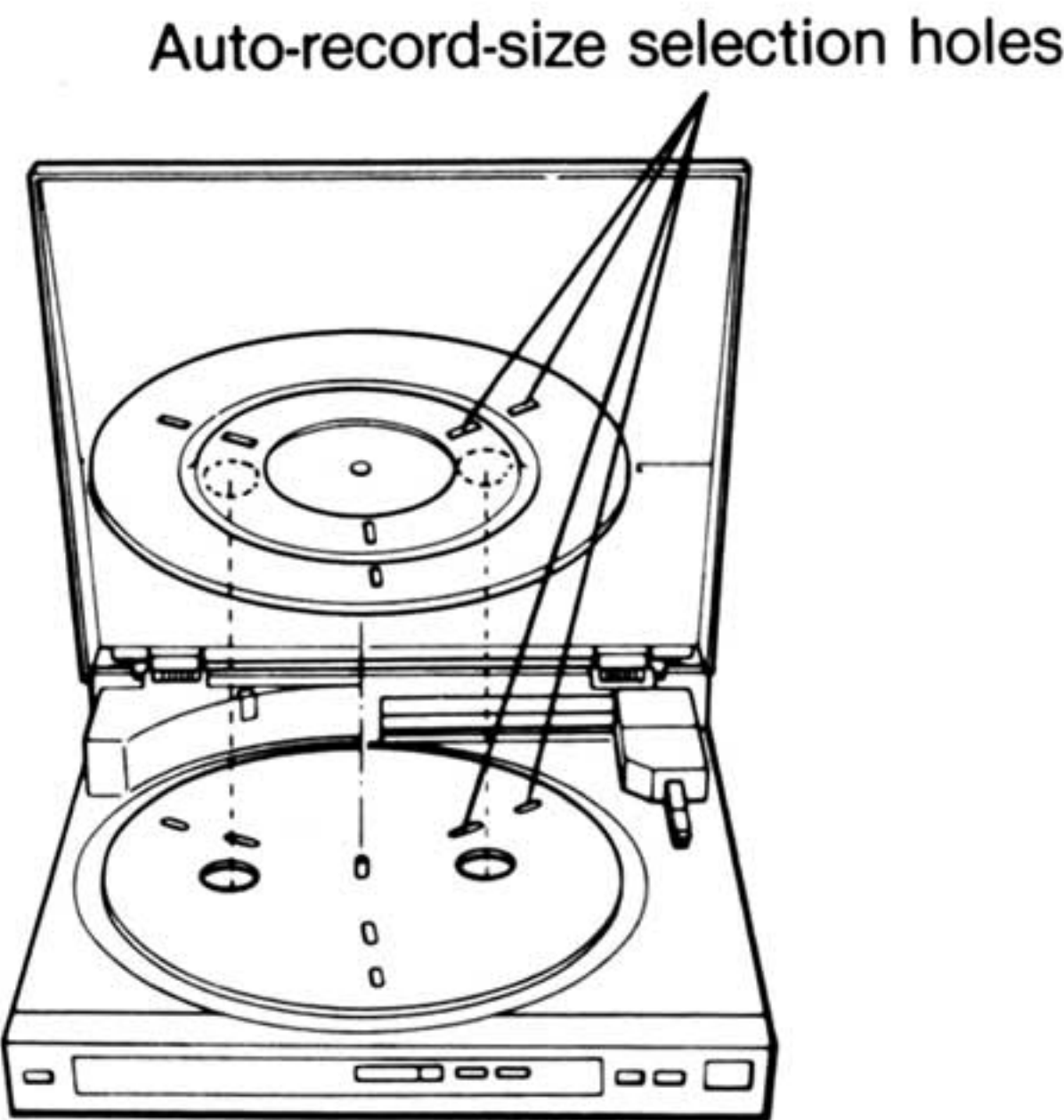
- 1 Remove the transit screw of the bottom of the turntable system.



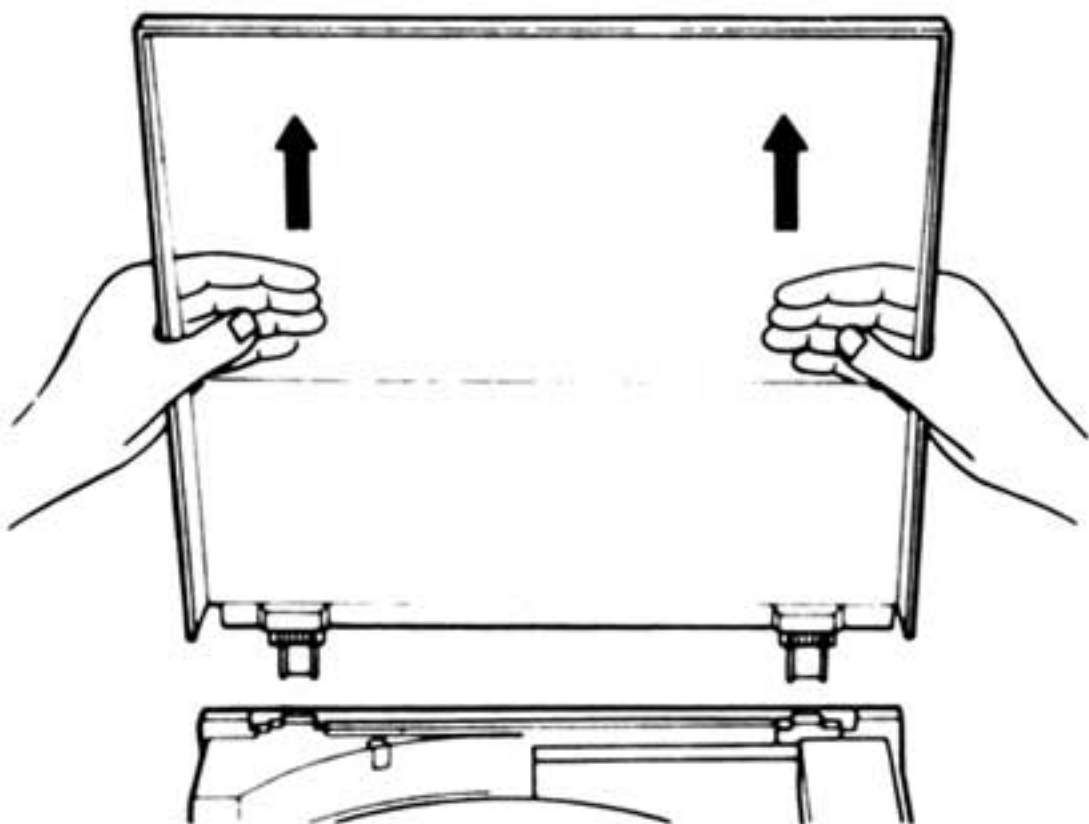
- 2 Remove the cushion fixing the tonearm.



- 3 Place the platter on the motor board and place the rubber mat on the platter so that the holes for auto record size selection on the rubber mat and on the platter are matched correctly.



**How to remove the dust cover**  
When removing the dust cover, be sure to open fully and pull it up.



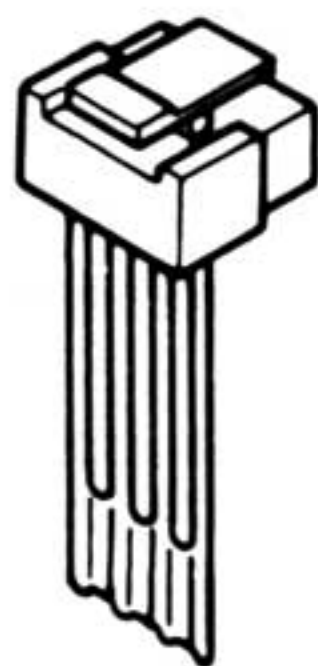


# CONNECTIONS

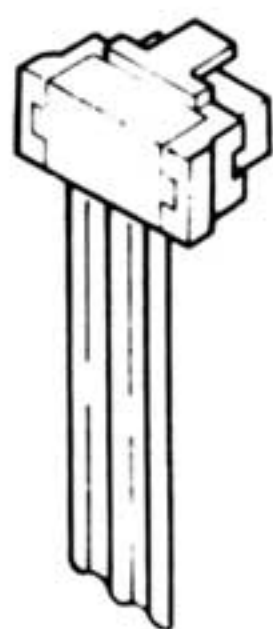
## BEFORE CONNECTION

- Turn off the amplifier before making connections.
- Be sure to connect the red plug of the connection cord to the right (R) jack and the remaining one to the left (L). The cable connectors should be fully inserted into the jacks. A loose connection may cause hum and noise.
- Leave a little slack in the connecting cord to allow for inadvertent shock or vibration.
- If the turntable causes interference to radio and television reception, turn off the turntable or move it away from the receiver.
- Use the supplied cords.
- Be sure to connect the ground wire to the  $\perp$  terminal of the amplifier.

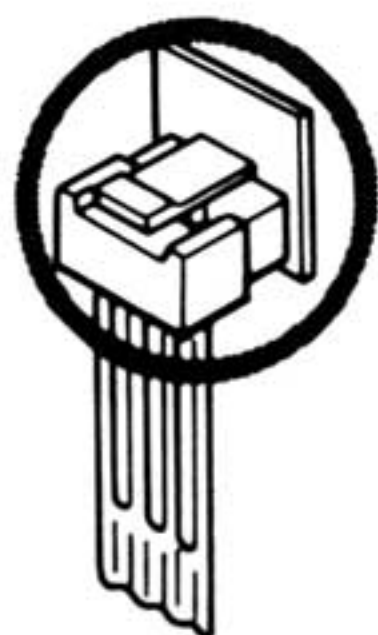
Remote control corol (4-pin)



Synchro remote control corol (3-pin)



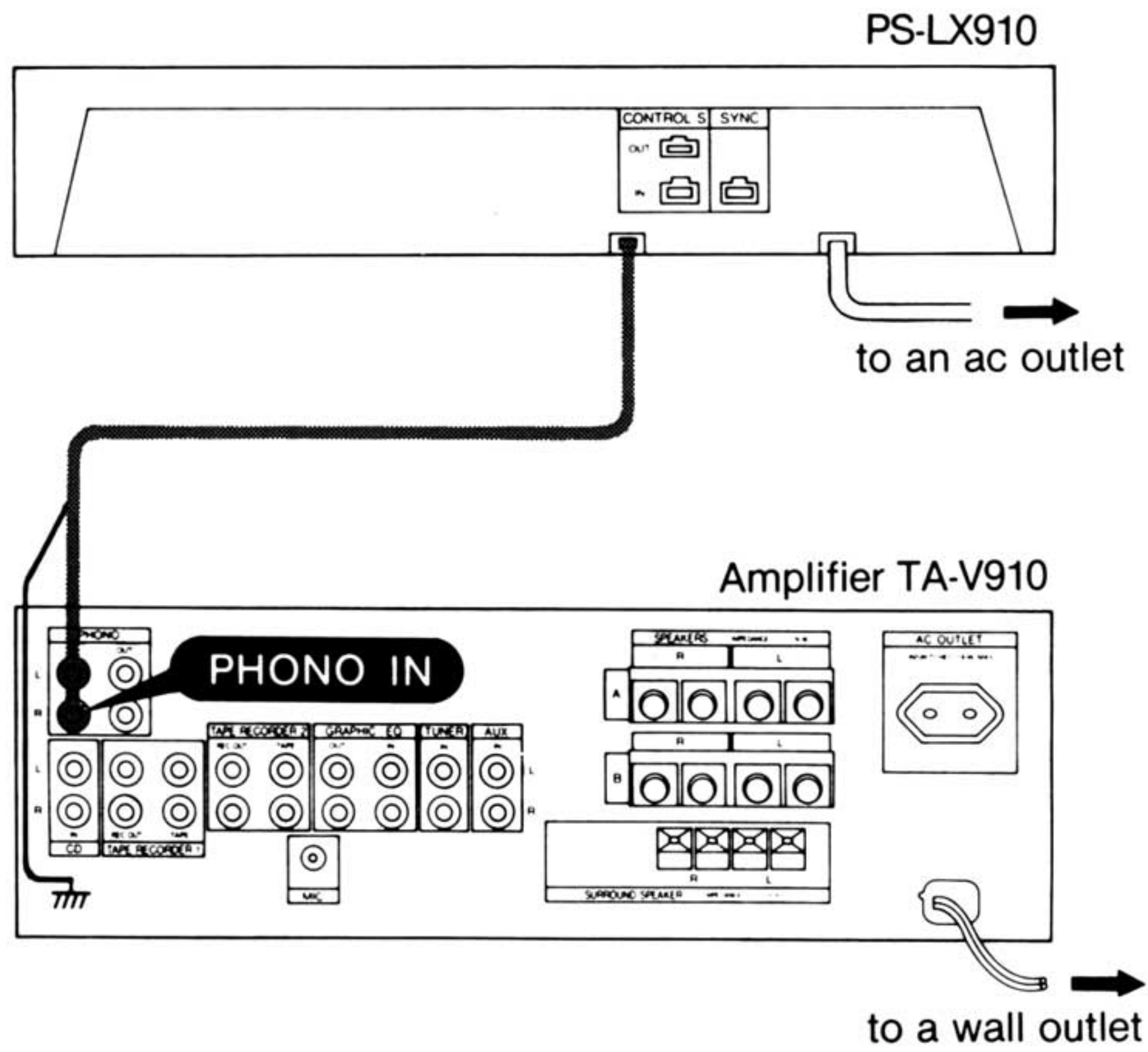
- Be sure to insert the cord securely.



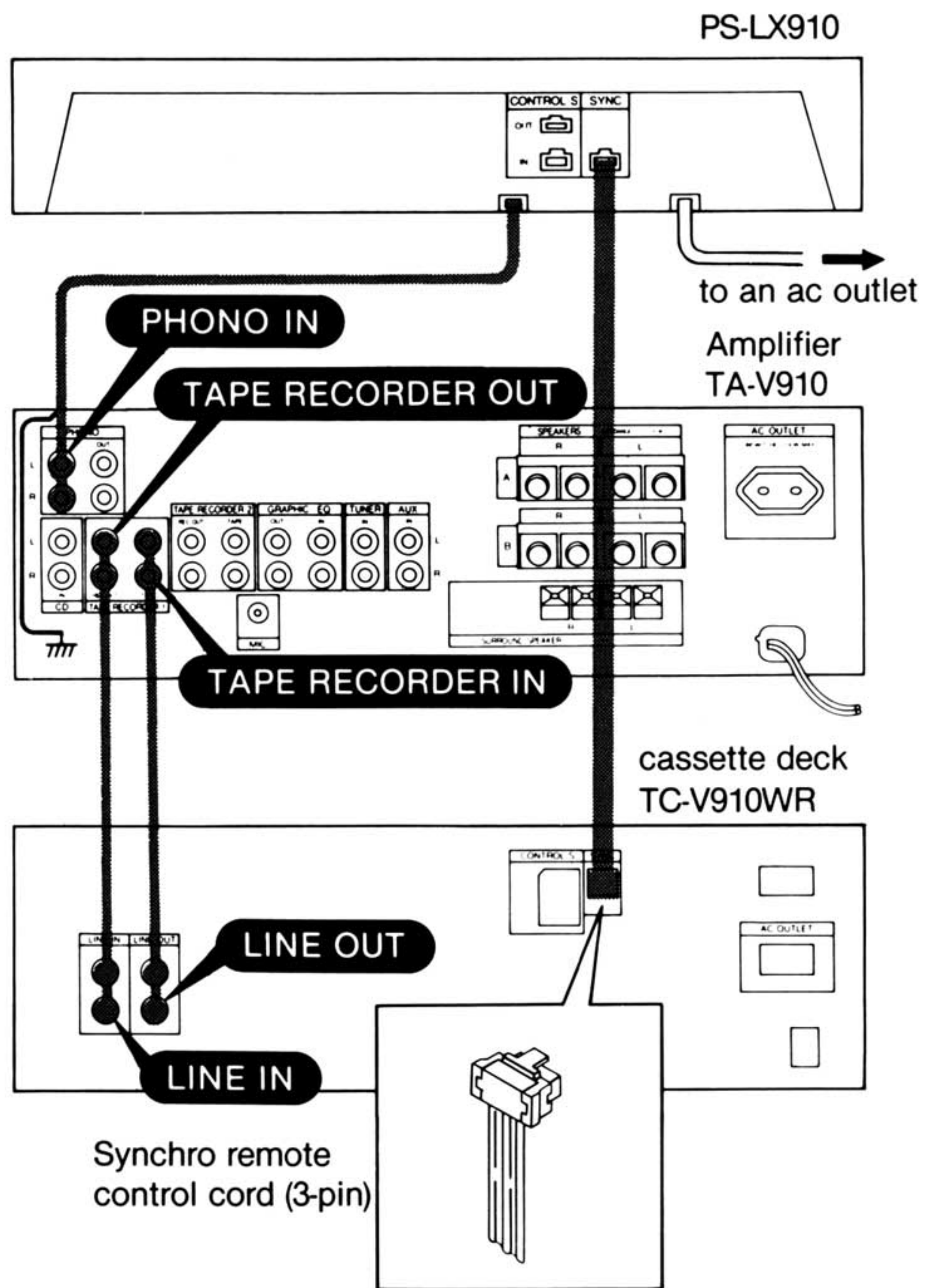
- To disconnect the cord, press the center tab and pull out the connector. Do not pull the cord itself.

## CONNECTION DIAGRAM

### Basic connection



### Connection diagram of synchronized play



The whole system can be remote-controlled by connecting the optional AVH-910 audio/video selector to this player with the supplied remote control cord (4-pin).  
For details, refer to the instruction manual of AVH-910.



# SPECIFICATIONS

<b>Turntable</b>	
Platter	30 cm (12 in.), aluminum-alloy diecast
Motor	BSL (brushless and slotless) motor
Drive system	Direct drive
Control system	Quartz lock servo control system
Speed	33 <sup>1</sup> / <sub>3</sub> rpm, 45 rpm
Wow and flutter	0.03% (WRMS) * <sup>1</sup> ±0.035% (WRMS), ±0.045% (DIN)
Signal-to-noise ratio	75 dB (DIN-B)
Automatic system	Lead-in, return, reject, repeat, arm up/down, record size selection

<b>Tonearm</b>	
Type	Linear tracking tonearm
Pivot-to-stylus length	75 mm (3 in.)
Tracking error	±0.1°
Usable cartridge	Plug-in type, 6 g

<b>Cartridge (XL-300G)</b>	
Type	Moving magnet type
Frequency response	20 Hz to 20 kHz
Channel separation	23 dB at 1 kHz
Output voltage	3.0 mV at 1 kHz, 5 cm/sec., 45°
Load impedance	50 to 100 kilohms
Tracking force	1~1.5 g
Stylus	Sony ND-300G
Weight	6 g

<b>General</b>	
Power requirements	Type 1 : 220 V ac, 50/60 Hz (240 V ac adjustable by authorized sony personnel) Type 2 : 240 V ac, 50 Hz (220 V ac adjustable by authorized sony personnel) Type 3 : 110 – 120 or 220 – 240 V ac adjustable, 50/60 Hz
Power consumption	10 W
Dimensions	Approx. 355 × 90 × 360 mm (w/h/d) (14 × 3 <sup>1</sup> / <sub>2</sub> × 14 <sup>1</sup> / <sub>4</sub> in.) including projecting parts and controls
Weight	Approx. 4.5 kg (9 lb 15 oz), net Approx. 6.1 kg (13 lb 7 oz), in shipping carton
Supplied accessory	45-rpm adaptor (1) Remote control cord (4-pin) (1) Synchro remote control cord (3-pin) (1)

While the information given is correct at the time of printing, small production changes in the course of our comapany's policy of improvement through research and design might not necessarily be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

\*<sup>1</sup> This new measuring method concerns only the turntable assembly, including the platter. It excludes wow and flutter caused by the tonearm, the cartridge, or the record. Measured by obtaining signal from magnetic pick-up head.

**Note**  
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.



# TROUBLE CHECKS

Should any problem persist after you have made these checks, consult your nearest Sony service facility. Before

proceeding with these trouble checks, first refer to the connections and the operating procedures.

TROUBLES	CAUSES	WHAT TO DO
The tonearm does not lower onto the record.	Transparent or warped record	See page 9.
The tonearm always lowers on the point for 30 cm records.	A rubber mat other than the one supplied being used.	Use the supplied rubber mat.
	Incorrect placement of the supplied rubber mat	Align the holes in the rubber mat with the holes of the platter.
Impaired tone quality	Dusty stylus	Clean the stylus with a soft brush from back to front.
	Worn stylus	The stylus life is approx. 400 hours. Replace with a new stylus.
No audio from one channel	Loose connection of phono cord	Connect the cord firmly.
	Dirty terminals of the cartridge shell	Clean the terminals with a soft dry cloth.
	Loose attachment of the cartridge shell to the tonearm.	Fix the shell to the tonearm firmly.
Steady low-pitched humming sound	Loose attachment of the cartridge shell to the tonearm	Fix the shell to the tonearm firmly.
	Ground wire is not connected to the amplifier.	Connect the ground wire to the amplifier.
Groove skipping; tonearm skating; tonearm not advancing	Turntable not level	Place the turntable on a level surface., or adjust the feet to level the unit.
Loud rumble or low-frequency howl*	The turntable is subject to external vibration.	Place the turntable on a solid surface free from external vibration.
	The turntable is placed too near the speaker.	Locate the turntable as far away from the speaker as possible.
Synchronized operation cannot be made	Loosen connection of the flat cord	Connect firmly.
	The cable connector and ground wire are not connected firmly to the amplifier	Connect firmly.

\* This is called "acoustic feedback" and is caused when vibrations from the speakers are transmitted through the air or via solid objects (such as the shelves, the cabinet, the floor, etc.) to the turntable, where they are picked up by the stylus, amplified and reproduced through the speakers once again.