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# ***Stereo Turntable System***

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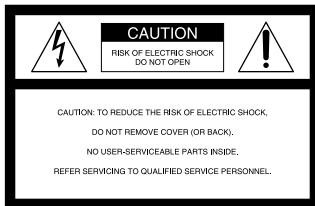
Operating Instructions

*PS-LX350H*

## WARNING

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

For the customers in the U.S.A.



This symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

### Owner’s Record

The model number and serial numbers are located at the rear. Record these numbers in the spaces provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. PS-LX350H

Serial No. \_\_\_\_\_

### CAUTION

You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment.

## 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.
- The nameplate indicating operating voltage, power consumption, etc. is located on the rear exterior.

### On placement

- Place the unit 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 unit 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

Keep the carton and packing materials. They provide an ideal container to transport the unit.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

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## Welcome!

Thank you for purchasing the Sony Stereo Turntable System. Before operating the unit, please read this manual thoroughly and retain it for future reference.

### Convention

The following icon is used in this manual:



Indicates hints and tips for making the task easier.

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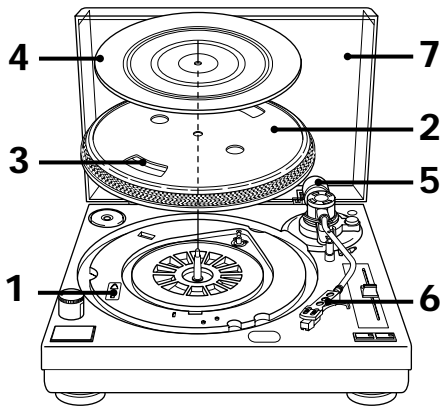
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## Unpacking

Check that you received the following items with your turntable:

- Platter (with drive belt) (1)
- Rubber mat (1)
- Dust cover (with hinges) (1)
- Counter weight (1)
- Cartridge and headshell (1)
- 45 r/min adaptor (1)
- Audio connecting cord (1)

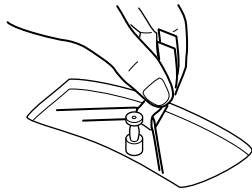
### Assembling the Turntable



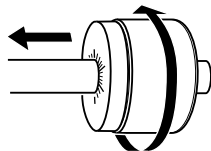
- 1** If your turntable is equipped with a voltage selector, be sure to set the selector to your line voltage.



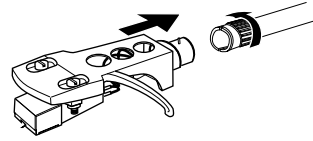
- 2** Carefully, place the platter on the spindle.
- 3** Using the ribbon, loop the drive belt around the motor pulley. After looping the belt, do not forget to remove the ribbon.



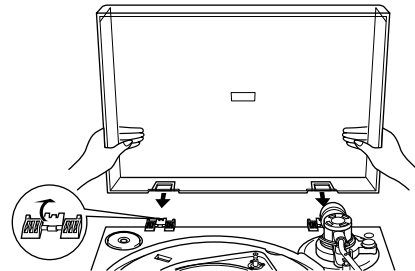
- 4** Place the rubber mat on the platter.
- 5** Slide the counter weight onto the shaft at the rear of the tone arm and turn 3 or 4 times in the direction of the arrow.



- 6** Insert the headshell into the front of the tone arm. Turn the locking collar in the direction of the arrow until the headshell is secure.

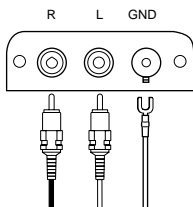


- 7** Rise the hinges and install the dust cover.

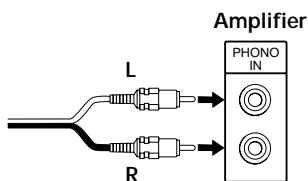


## Hooking up the Turntable

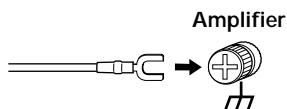
- 1 Connect the supplied audio connecting cord and earth lead to the output terminals and GND terminal at the rear. Be sure to connect the red plug to the R output jack and the white plug to the L output jack.



- 2 Connect the cord with the red plug to the lower PHONO IN R input jack on the amplifier and connect the cable with the white plug to the upper PHONO IN L input jack.



- 3 Connect the earth lead to the earth terminals on the amplifier.

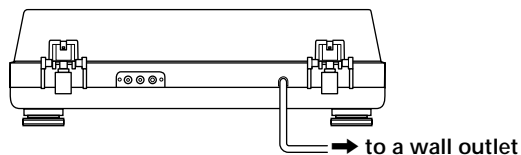


### Note

Be sure to connect the earth lead. Failure to do so will result in a humming noise from the turntable.

## Mains lead hookups

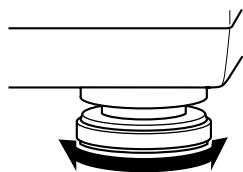
Connect the mains lead to an AC wall outlet after completing all of the previous connections.



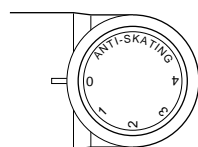
### Adjusting the turntable

Before attempting to play any records, be sure to complete the following steps to insure proper tone arm balance, tracking force and anti-skating adjustment. Failure to complete these adjustments will result in inferior sound quality and may cause permanent damage to the stylus and record.

- 1 Make sure the turntable is level.  
The insulator feet allow you to make slight adjustments to the height of the turntable.

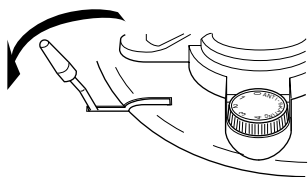


- 2 Set the ANTI-SKATING dial to "0".



- 3 Remove the protective cover from the cartridge, move the tone arm to the space between the arm stand and the platter.  
Take care not to damage the stylus.

- 4 While using the finger lift to support the headshell, shift the cueing lever forward. Take care not to damage the stylus.



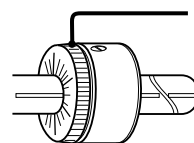
- 5 Balance the tone arm by turning the counter weight either clockwise or counterclockwise.

When the tone arm is properly balanced  
It will float parallel to the platter when released.  
It should not tilt toward either the headshell or counter weight.

- 6 Return the tone arm to the arm stand.

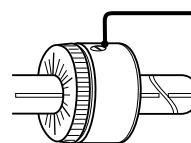
- 7 Since the tracking force is zero when the tone arm is properly balanced, set the tracking force scale ring so that "0" lines up with the index line.

Hold the counter weight with your other hand so that it will not turn together with the scale ring.



Turn this ring so that the "0" lines up with the index line.

- 8 When using the supplied cartridge, turn the counter weight so that 2 reading lines up with the index line. The supplied cartridge requires 2 grams of tracking force.



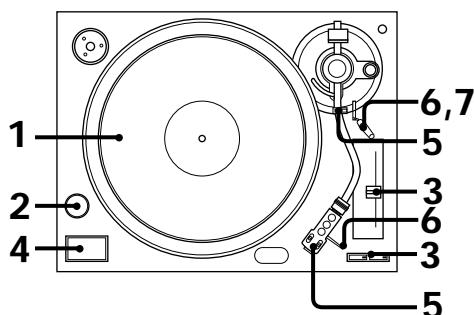
Turn the counter weight so that 2 reading lines up with the index line.

When optionally available cartridge is used

Turn the counter weight counterclockwise to align the tracking force scale ring to the correct tracking force. The tracking force scale ring is marked in 0.1 g steps and one full turn of the counter weight yields a tracking force of 4 g.

- 9 Set the ANTI-SKATING dial to the same setting as the tracking force scale ring.  
The numbers on the ANTI-SKATING dial correspond to 1 g of tracking force.

## Playing a Record



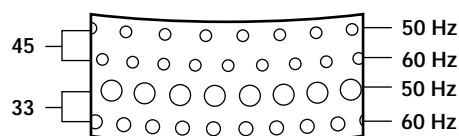
- 1 Place a record on the platter.



### Note

Place only one record on the platter at a time. If two or more records are stacked on the platter, the stylus will not make proper contact with the grooves and the quality of reproduction will be impaired.

- 2 Turn POWER to "I" to turn on the record turntable.  
The strobo lamp lights up.
- 3 Set the PITCH CONTROL to the center position and press 33 or 45 to select the platter speed.  
The indicator for the selected speed lights up.
- 4 Press START/STOP.  
The platter starts rotating.  
If you select 45 r/min when the turntable is connected to a 50 Hz power source, the innermost row of the strobo dots should appear to stand still.



- 5 Remove the protective cover from the cartridge and disengage the arm stopper.
- 6 Shift the cueing lever forward.  
Move the tone arm to the desired position over the record.

- 7 Set the cueing lever backward.  
The tone arm descends slowly to the record and playback begins.

- 8 Adjust the volume on your amplifier.

### To stop playing

- 1 Shift the cueing lever forward to lift up the tone arm, return the tone arm to the arm stand.  
Attach the protective cover onto the cartridge to prevent damage to the stylus.
- 2 Press the START/STOP button.  
The platter stops rotating.  
Shift the cueing lever forward and fix the tone arm with the arm stopper.
- 3 Turn POWER to "•" to turn the turntable off.

### To pause playback

Shift the cueing lever forward to raise the stylus off the record during playback.

### To listen to a different part of the record

- 1 Shift the cueing lever forward to raise the stylus during playback.
- 2 Move the tone arm to the position you desire.
- 3 Shift the cueing lever backward.

### To play a 17-cm record

Place the supplied 45 r/min adaptor on the spindle.  
When you have finished using the adaptor, put it back in the adaptor tray.



- If the strobo dots do not stand still when the PITCH CONTROL is set to the center position  
Slide toward + or - to adjust the platter speed so that the respective strobo dots appear to stand still.

### Note

When the unit is turned on, the speed is automatically set to 33 r/min.



- If you have an extra headshell, retain it in the headshell holder.

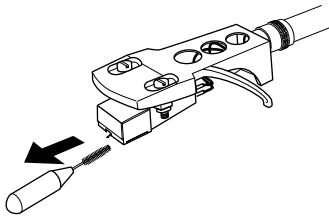


### Maintenance

#### Stylus and Record Care

In order to prevent premature stylus and record wear, the stylus and record should be cleaned before playback.

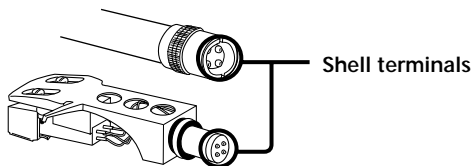
To clean the stylus, brush it from back to front using a good quality stylus cleaning brush. Do not clean the stylus with your finger tip. When using a fluid stylus cleaner, make sure not to moisten the stylus too much.



To clean your records, wipe thoroughly using a good quality record cleaner.

#### Cleaning the Shell Terminals

If you notice a drop in sound quality, excessive noise, or hum, this may be a result of incomplete contact due to dust or dirt on the shell terminals. Remove the shell from the tone arm and wipe the terminals lightly with a soft cloth, and reattach the shell to the tone arm.



#### Cleaning the Cabinet and Dust Cover

Clean the cabinet and dust cover periodically using a soft dry cloth. If stains are difficult to remove, use a cloth moistened with a mild detergent solution. Do not use solvents such as alcohol, benzene or thinner, since they will damage the finish.

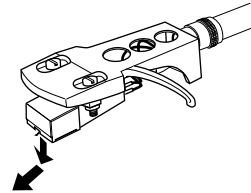
#### Replacing the Stylus

The life expectancy of the stylus tip is about 500 hours. To preserve maximum sound quality and avoid damage to your records, we recommend replacing the stylus within this time limit.

Additional replacement styli (ATN3600LX) are available from your Sony dealer.

#### To replace the stylus

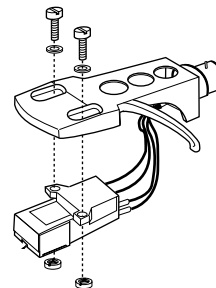
- 1 Turn off the turntable and amplifier.
- 2 Turn the locking collar and remove the cartridge from the tone arm.
- 3 Grasp the stylus holder and pull it away from the body of the cartridge in the slanting direction.
- 4 Insert the new stylus by pushing it into the cartridge receptacle in the slanting direction until it clicks.



#### Replacing the Cartridge

If you find it necessary to replace the cartridge detach the headshell from the tone arm and follow the directions below.

- 1 Remove the screws holding the cartridge to the headshell.
  - 2 Detach the four lead wires from the cartridge by pulling on the lead terminals with a small pair of pliers (etc.).
- The cartridge should now be completely detached from the headshell.



- 3 Check the location and polarity of each of the terminal pins on the new cartridge and connect the lead wires accordingly.
- The terminal polarity of the lead wires on the accessory headshell are shown below.

Red:	Right channel
White:	Left channel
Green:	Right channel earth
Blue:	Left channel earth

Be careful not to mix the polarities.

## Troubleshooting

Before going through the check list below, first make sure that:

- The power cord is securely connected.
  - The speaker cords are securely connected.
- Should any problem persist after you have made these checks, consult your nearest Sony dealer.

The tone arm skips, skates or does not advance.

- ➔ The turntable is not level. Place the turntable on a level surface.
- ➔ Incorrect tracking force. Follow the instructions on page 5 and set the tracking force to the appropriate value for the cartridge being used. (The supplied cartridge requires 2 grams of tracking force.)
- ➔ Incorrect anti-skating adjustment. Make sure the ANTI-SKATING dial is set to the same value shown on the tracking force ring (see page 5).
- ➔ The record is dirty or scratched.  
Clean the record with a commercially available record cleaning kit, or replace the record.

Poor sound quality, excessive noise, intermittent sound, etc...

- ➔ Check the tone arm locking collar to make sure the headshell is securely attached to the tone arm (see page 4).
- ➔ Make sure the earth lead is connected to the earth terminal on the amplifier (see page 4).
- ➔ Incorrect tracking force. Follow the instructions on page 5 and set the tracking force to the appropriate value for the cartridge being used. (The supplied cartridge requires 2 grams of tracking force.)
- ➔ The stylus is dirty or worn. Remove dust on the stylus using a stylus cleaning brush, or replace the worn stylus (see page 7).
- ➔ Dust or dirt has collected on the record. Clean the record using a good quality record cleaner.
- ➔ Check that the cartridge lead wires inside the headshell are firmly attached.

Rumble or low-frequency howl\*.

- ➔ The turntable is placed too close to speakers. Move speakers away from the turntable.

Tempo is incorrect.

- ➔ Incorrect r/min. Set the r/min setting to match the one indicated on the record. (Select "33" for 33  $\frac{1}{3}$  r/min records or "45" for 45 r/min records.)
- ➔ The PITCH CONTROL is not set to the center position.
- ➔ Incorrect platter speed. Adjust the fine controls on the bottom of the turntable while watching the strobo dots to obtain correct platter speed (see page 6).

The drive belt is deteriorated.

- ➔ Replace the drive belt. For details, please make a contact with Sony dealer.

Platter does not rotate.

- ➔ Make sure the power cord is inserted all the way into an AC wall outlet.
- ➔ The drive belt is not completely hooked onto the motor pulley. Make sure the belt is hooked completely around the motor pulley (see page 4).

The drive belt is broken.

- ➔ Replace the drive belt. For details, please make a contact with Sony dealer.

Sound is too low or distorted.

- ➔ The turntable is not connected to the PHONO inputs on the amplifier (see page 4).

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

## Specifications

### Motor and Platter

Drive system	Belt-drive
Motor	DC motor
Platter	330 mm dia. Aluminum die-cast
Speeds	33 $\frac{1}{3}$ and 45 r/min, 2 speed
Wow and flutter	Less than 0.25% (WRMS)
Signal to noise ratio	More than 50 dB (DIN-B)

### Tone Arm

Type	Static balanced S-shaped tone arm with detachable headshell
Effective arm length	220 mm
Overhang	10 mm
Usable cartridge weight	6 g (min.) to 10 g (max.)

### General

Power requirements	U.S.A.: 120 V AC, 60 Hz European countries: 220 ~ 230 V AC, 50/60 Hz Other countries: 110 ~ 120 V/220 ~ 240 V AC, 50/60 Hz
Power consumption	8 W
Dimensions	Approx. 450 x 145 x 350 mm (17 $\frac{11}{16}$ x 5 $\frac{11}{16}$ x 13 $\frac{3}{4}$ in) (w/h/d)
Mass	6.5 kg (14 lb 5 oz)

### Supplied Accessories

45 r/min adaptor (1)
Platter (with drive belt) (1)
Rubber mat (1)
Cartridge and headshell (1)
Counter weight (1)
Audio connecting cord (1)
Dust cover (1)

Design and specifications are subject to change without notice.

## Parts and Controls

- |          |                              |           |                   |
|----------|------------------------------|-----------|-------------------|
| <b>1</b> | 45 r/min adaptor             | <b>10</b> | Dust cover        |
| <b>2</b> | Spindle                      | <b>11</b> | Counter weight    |
| <b>3</b> | Strobo lamp and POWER button | <b>12</b> | Hinge             |
| <b>4</b> | START/STOP button            | <b>13</b> | ANTI-SKATING dial |
| <b>5</b> | Rubber mat                   | <b>14</b> | Headshell holder  |
| <b>6</b> | Platter                      | <b>1∞</b> | Arm stand         |
| <b>7</b> | Cartridge and headshell      | <b>16</b> | Cueing lever      |
| <b>8</b> | SPEED button                 | <b>17</b> | Tone arm          |
| <b>9</b> | Insulator                    | <b>18</b> | PITCH CONTROL     |
|          |                              | <b>19</b> | Locking collar    |
|          |                              | <b>20</b> | Finger lift       |

