

Stereo Turntable System Package

Operating Instructions

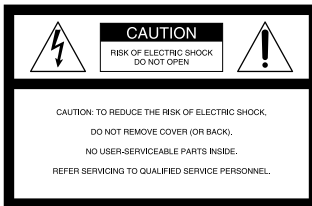
PMPK-DJ9000

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.

CAUTION

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

INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Owner’s Record

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

Model No. _____

Serial No. _____

For the customers in Canada

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

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.

Welcome!

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

Main features

- As an entry-level DJ turntable, this system is designed for easy control even for the novice DJ.
- A slip mat is supplied to enable scratch playing.

Convention

The following icon is used in this manual:



Indicates hints and tips for making the task easier.

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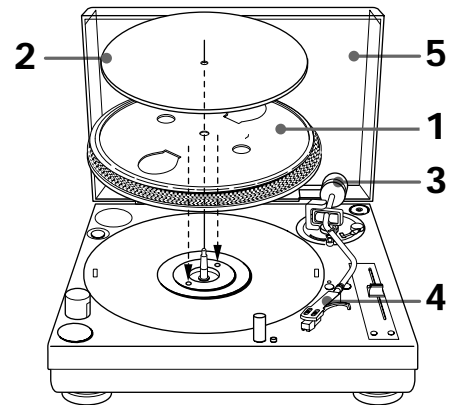
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Unpacking

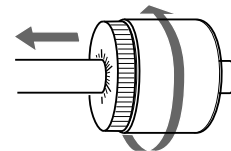
Verify that the following items are included with your Stereo Turntable System Package:

- PS-DJ9000 Stereo Turntable System (2)
- MX-DJ9000 Audio Mixer (1)
- Platter (2)
- Slip mat (2)
- Dust cover (with hinges) (2)
- Counterweight (2)
- Cartridge and headshell (2)
- 45 adaptor (2)
- Audio cord (with ground wire) (2)
- AC power cord (2)
- AC power adaptor cord (1)
- Audio cord (without ground wire) (2)

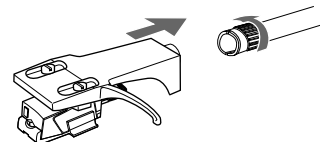
Assembling the Turntable



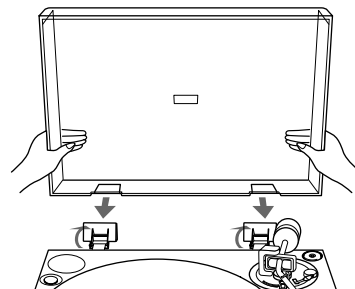
- 1 Carefully place the platter onto the spindle. Make sure the two pins on the bottom of the platter are properly inserted into the two holes in the motor, as indicated by the arrows in the illustration above.
- 2 Place the slip mat on the platter.
- 3 Slide the counterweight onto the shaft at the rear of the tonearm and turn 3 or 4 times in the direction of the arrow.



- 4 Insert the headshell into the end of the tonearm. Turn the locking ring in the direction of the arrow until the headshell is secure.



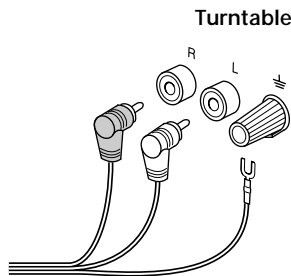
- 5 Insert the hinges on the dust cover into the hinge pockets on the rear of the cabinet.



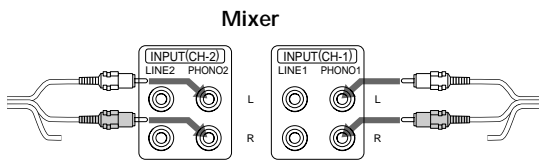
Connecting the Turntables to the Mixer

Use the supplied audio cords (with ground wire) to connect the turntables to the mixer's CH-1 and CH-2 PHONO INPUT jacks and \perp (ground) terminal, as follows:

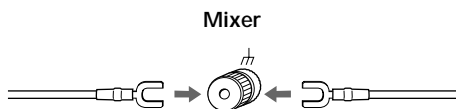
- 1 On each turntable, connect the red plug of an audio cord to the R output jack, the white plug to the L output jack, and the ground wire to \perp (ground) terminal, as shown below.



- 2 On the mixer, connect the red plugs and white plugs on the other end of each audio cord to the PHONO R and PHONO L INPUT jacks, respectively, for CH-1 and CH-2, as shown below.



- 3 Connect the ground wires to \perp (ground) terminal on the mixer.



Note

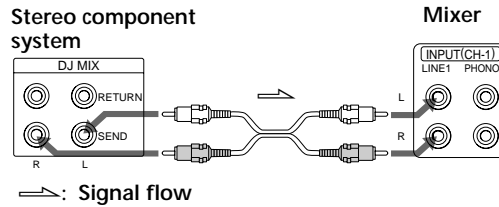
Be sure to connect the ground wire. Failure to do so will cause a humming noise in the turntable.

Connecting an external signal source

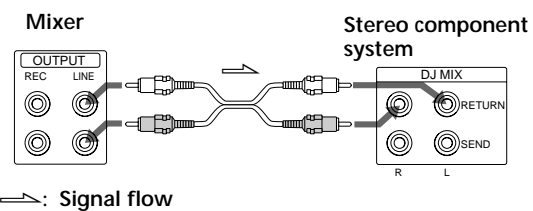
To connect a stereo component system with a DJ mixer connector, do the following:

- 1 Remove the jumpers from your stereo component system.

- 2 Use the supplied audio cord (without ground wire) to connect the SEND jack on the stereo component system to the LINE 1 or LINE 2 INPUT jack on the mixer.

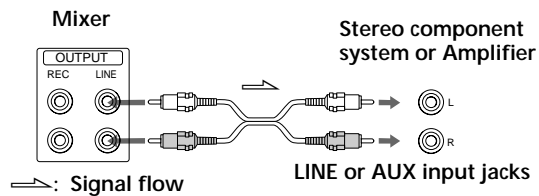


- 3 Use the other supplied audio cord (without ground wire) to connect the LINE OUTPUT jack on the mixer to the RETURN jack on the stereo component system.



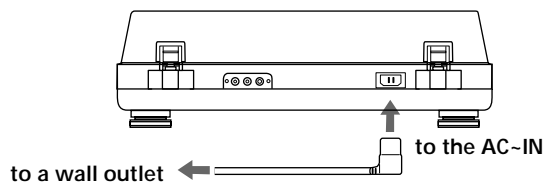
To connect a stereo component system without a DJ mixer connector or an amplifier, do the following:

- 1 Use the supplied audio cord (without ground wire) to connect the LINE OUTPUT jacks on the mixer to the input jacks on the stereo component system or to the LINE or AUX input jacks on the amplifier.

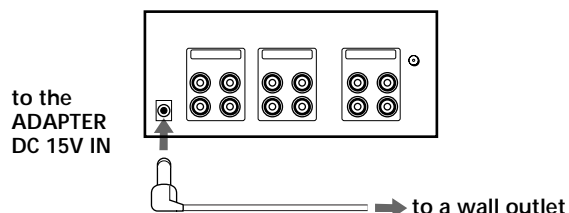


Connecting the AC power cord

After connecting all units, connect the AC power cord from each turntable to an AC wall outlet.



Connect the AC power adaptor cord to the rear of the mixer and the AC power cord from the adaptor to an AC wall outlet.

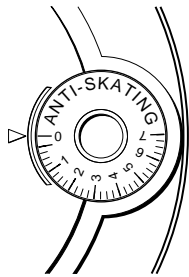


Adjusting the Turntable

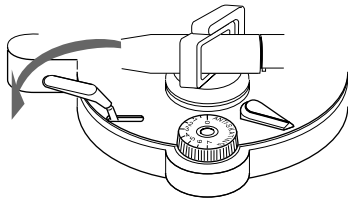
Before attempting to play any records, be sure to complete the following steps to properly adjust the tonearm balance, tracking force and anti-skating dial. Failure to complete these adjustments will result in inferior sound quality and may cause permanent damage to the stylus and record.

1 Make sure the turntable is level.

2 Set ANTI-SKATING to "0."



3 Set the cueing lever to the down position.



4 Turn up the protective cover to expose the stylus, and move the tonearm to the space between the arm stand and the platter. Take care not to damage the stylus.

5 Balance the tonearm by turning the counterweight either clockwise or counterclockwise.

When the tonearm is properly balanced

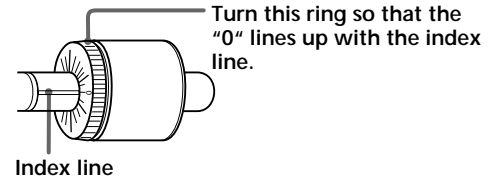
It will remain level with the platter when released.

It should not tilt in the direction of either the headshell or the counterweight.

6 Return the tonearm to the arm stand.

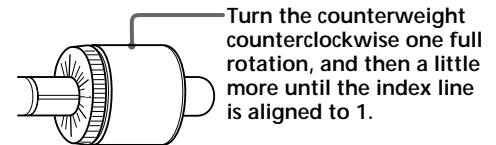
7 A properly balanced tonearm has a tracking force of zero. Therefore, rotate the tracking force scale ring until "0" is aligned to the index line.

Restrain the counterweight with your other hand so that it does not rotate along with the scale ring.



8 When you use the supplied cartridge, turn the counterweight counterclockwise one full rotation, and then continue turning it until the index line comes to 1. Since one full rotation of the counterweight yields a tracking force of 3 grams, this adjustment results in a tracking force of 4 grams, which is the normal requirement for the supplied cartridge.

You can set a tracking force of 3 to 7 grams.

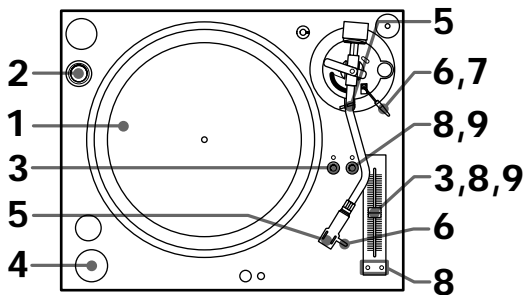


When optionally available cartridge is used

The tracking force scale ring is marked in 0.1-gram units. One full rotation yields a tracking force of 3 grams.

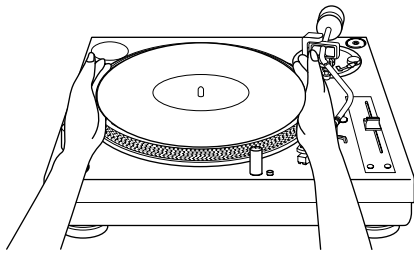
9 Set ANTI-SKATING to the same value as the tracking force scale ring. The numbers on the ANTI-SKATING dial indicate the number of grams in tracking force.

Playing a Record



Before playing a record, be sure the PHONO/LINE switch on the mixer is set to PHONO.

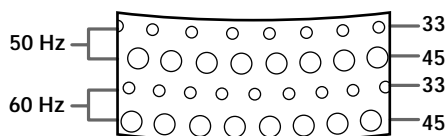
- 1 Place a record on the platter.



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 the POWER switch to ON. The strobo lamp, the QUARTZ lock indicator, and SPEED indicator light up. Turn the POWER switch on the mixer and amplifier to ON also.
- 3 Set PITCH ADJ. knob to the center position. When the turntable is turned on, the platter speed is automatically set to 33 rpm. Verify that the green indicator lights up.
- 4 Press ►■ START/STOP. The platter starts rotating. If you select 33 rpm when the turntable is connected to a 50 Hz power source, the uppermost row of the strobe dots should appear to stand still.



- 5 Remove the protective cover from the cartridge and release the arm stopper.
 - 6 Set the cueing lever in the up position. Move the tonearm to the desired point on the record.
 - 7 Set the cueing lever to the down position. The tonearm will descend slowly to the record and play will begin.
 - 8 If you want to change the pitch, press the QUARTZ lock button (the QUARTZ indicator will turn off). Then adjust the pitch by moving the PITCH ADJ. knob. The distance from the center position to the farthest point on the scale represents a change of 10% in the pitch. You can also use the PITCH BEND + and - buttons to change the pitch (see "Using the PITCH BEND + and - buttons" on page 8).
 - 9 If you wish, you can return to normal speed (33 1/3 or 45 rpm) while the PITCH ADJ. knob is off center by pressing the QUARTZ lock button (the QUARTZ indicator will turn on). Press the QUARTZ lock button again to go back to the previous pitch setting (the QUARTZ indicator will turn off).
- Note**
The PITCH ADJ. knob does not function while the QUARTZ lock is on (i.e., while the QUARTZ indicator is on).
- 10 To adjust the volume, use the respective channel fader on the mixer, or the volume control on the stereo component system or amplifier.

To stop play

- 1 Set the cueing lever in the up position and return the tonearm to the arm stand. Attach the protective cover onto the cartridge to prevent damage to the stylus.
- 2 Press ►■ START/STOP. The platter stops rotating. Secure the tonearm with the arm stopper.
- 3 Turn POWER to OFF.

To pause play

Press ►■ START/STOP or set the cueing lever in the up position to raise the stylus.

(Continued)

To play an another part of the record

- 1 Set the cueing lever to the up position to raise the stylus.
- 2 Move the tonearm to the desired position.
- 3 Set the cueing lever to the down position.

To play a 45 single

Place the supplied 45 adaptor onto the spindle.

Press SPEED to select 45 rpm.

The green indicator changes to red.

After you have finished using the adaptor, return it to the adaptor tray.

Using the PITCH BEND + and – buttons

You can use the PITCH BEND + and – buttons to synchronize the beat of the selection playing on one turntable with the beat of another selection playing on the other turntable. You can use these buttons even if the QUARTZ lock button is turned on or off.

- 1 Use the PITCH ADJ. knob to synchronize the speed of the selection playing on one of the turntables with the speed of the selection on the other turntable.
- 2 Press the PITCH BEND + and – buttons to synchronize the beat of both selections. Pressing and holding down the + or – button causes the selection to play 10% faster or slower than the normal playing speed.



If the strobe dots are not stationary when the PITCH ADJ. knob is set to the center position

Adjust the platter speed by sliding the PITCH ADJ. knob toward + or – until the strobe dots become stationary.

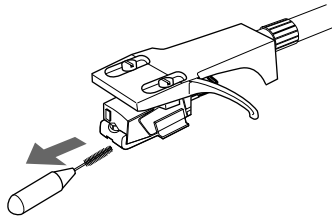


If you have an extra headshell, keep it in the headshell holder.

Maintenance

Stylus and Record Care

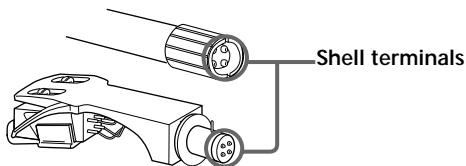
To prevent premature stylus and record wear, clean the stylus and record before the start of play. Clean the stylus by brushing it from back to front with a good-quality stylus-cleaning brush. Do not clean the stylus with your fingertip. If you use a liquid stylus cleaner, take care not to moisten the stylus excessively.



Clean the record by wiping it thoroughly with 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 caused by dust or dirt on the shell terminals. Remove the shell from the tonearm and wipe the terminals lightly with a soft cloth, and then reattach the shell to the tonearm.



Cleaning the Turntables and the Mixer

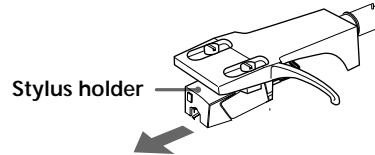
Clean the cabinet and dust cover of the turntables and the cabinet and panel of the mixer periodically with a soft dry cloth. Moisten the cloth with a mild detergent solution to clean difficult-to-remove stains. Do not use solvents such as alcohol, benzine or thinner, as this will damage the finish.

Replacing the Stylus

The life expectancy of the stylus tip is about 500 hours. To maintain optimum sound quality and prevent damage to your records, we recommend replacing the stylus before the end of this time duration. Obtain a replacement stylus (D5107AL) from your Sony dealer.

Procedure for replacing the stylus

- 1 Turn off the turntable, mixer and amplifier.
- 2 Release the locking ring and remove the shell from the tonearm.
- 3 Grasp the stylus holder and pull it away from the body of the cartridge.

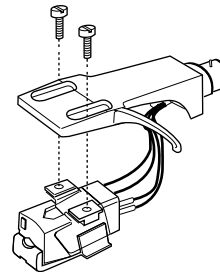


- 4 Insert the new stylus by pushing it into the cartridge receptacle until it is firmly attached.
- 5 Reattach the shell to the tonearm.

Replacing the Cartridge

When it is necessary to replace the cartridge, detach the headshell from the tonearm and follow the directions below.

- 1 Remove the screws securing the cartridge to the headshell.
- 2 Detach the four wires from the cartridge with a pair of pinchers. Then detach the cartridge completely from the headshell.



- 3 Confirm the polarity of each of the terminal pins on the new cartridge and connect the wires to them accordingly. The polarity of the wires on the supplied headshell are as follows:

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

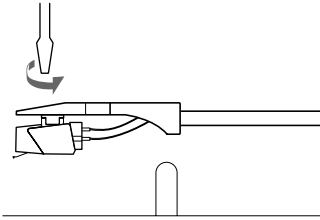
Make sure not to connect the wires to the wrong polarities.

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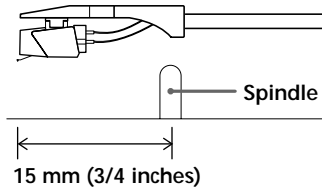
Overhang Adjustment

The arm overhang is factory adjusted. After replacing the cartridge, however, you should adjust the overhang as follows:

- 1 Loosen the screws of cartridge as shown below.



- 2 Slide the cartridge backward or forward until the distance between the stylus and the spindle is 15 mm (3/4 inches).

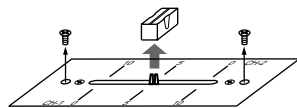


Make sure to retighten the screws after completing the adjustment.

Replacing the crossfader in the mixer

If the crossfader knob on the mixer makes a noise when you are moving it, you should replace the crossfader as follows:

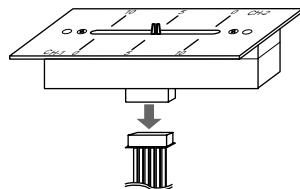
- 1 Pull up the fader knob, unscrew the exterior screws on the fader plate, and remove the fader knob.



Note

Do not touch the internal screws.

- 2 Carefully lift the fader and detach the cable.



- 3 Attach the cable to the new fader and insert the fader into the mixer.
- 4 Screw down the fader plate and return the fader knob to its original position.

A replacement fader can be purchased at your local Sony dealer.

Troubleshooting

Before referring to the check list below, first verify that:

- The power cord is securely connected.
- The speaker cords are securely connected.

Should any problem persist after taking the specified remedial actions, consult your nearest Sony dealer.

The tonearm skips, skates or fails to advance.

- The turntable is not level. Place the turntable on a level surface.
- The tracking force is incorrect. Follow the instructions on page 6 and set the tracking force to the appropriate value for the cartridge being used. (The supplied cartridge requires 4 grams of tracking force.)
- The anti-skating adjustment is incorrect. Make sure the ANTI-SKATING dial is set to the value indicated on the tracking force ring (see page 6).
- 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...

- Inspect the locking ring on the tonearm and verify that the headshell is firmly secured (see page 4).
- Make sure the ground wire is connected to \hbar (ground) terminal on the mixer (see page 5).
- The tracking force is incorrect. Follow the instructions on page 6 to set the tracking force to the appropriate value for the cartridge being used. (The supplied cartridge requires 4 grams of tracking force.)
- The stylus is dirty or worn. Remove dust on the stylus with a stylus-cleaning brush, or replace the worn stylus (see page 9).
- Dust or dirt has collected on the record. Clean the record with a good-quality record cleaner.
- Verify that the cartridge wires within the headshell are firmly attached.

Rumble or low-frequency howl*.

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

* 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.

Tempo is incorrect.

- ➔ The rpm setting is incorrect. Set the rpm to that indicated on the record (i.e., 33 for 33 1/3-rpm records and 45 for 45-rpm records).
- ➔ The PITCH ADJ. knob is not set to the center position.
- ➔ The platter speed is incorrect. Adjust the controls on the bottom of the turntable while observing the strobe dots to obtain the correct platter speed (see page 7).

Platter does not rotate.

- ➔ Make sure the power cord of the turntable is fully inserted into an AC wall outlet.

Sound is too low or distorted.

- ➔ The turntables are not connected to the PHONO INPUT connectors on the mixer (see page 5).
- ➔ The mixer is not correctly connected to the stereo component system or the amplifier (see page 5).
- ➔ The PHONO/LINE switch on the mixer is not set to PHONO (see page 7).

MX-DJ9000 Audio Mixer

General	
Power requirements	U.S.A. and Mexico: 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	10 W
Inputs	2 PHONO, 2 LINE, 1 MIC
Microphone	1.5 mV
Phono	3 mV
Line	150 mV
Output power	7 V (peak-to-peak)
Outputs	1 LINE OUT, 1 REC OUT via RCA
Frequency range	20 - 20,000 Hz, ±3 dB
Distortion	Less than 0.08 %
S/N ratio	70 dB (1 kHz)
Talkover attenuation	-16 dB
Headphones impedance	16 Ω
Dimensions	Approx. 200 × 80 × 166 mm (7 ⁷ / ₈ × 3 ¹ / ₄ × 6 ⁵ / ₈ in) (w/h/d)
Mass	1.6 kg (3 lb 8 oz)

Specifications

PS-DJ9000 Stereo Turntable System

Motor and Platter

Drive system	Direct drive quartz
Motor	3 phase 8 pole Brushless DC motor
Platter	Aluminum die-cast Diameter 332 mm (13.1 inches) Weight 750 g (1.85 lbs)
Speeds	33 ¹ / ₃ and 45 rpm
Wow and flutter	Less than 0.15 % (WRMS)
Signal to noise ratio	More than 55 dB (DIN-B)

Tone Arm

Type	Static balanced S-shaped tonearm with detachable headshell
Effective arm length	230 mm
Overhang	15 mm
Usable cartridge weight	4 g (min.) to 10 g (max.)

General

Power requirements	U.S.A. and Mexico: 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	15 W
Dimensions	Approx. 450 × 152 × 352 mm (17 ¹¹ / ₁₆ × 5 ¹¹ / ₁₆ × 13 ³ / ₄ in) (w/h/d)
Mass	10 kg (22 lbs)

Supplied Accessories

- Platter (2)
- Slip mat (2)
- Dust cover (with hinges) (2)
- Counterweight (2)
- Cartridge and headshell (2)
- 45 adaptor (2)
- Audio cord (with ground wire) (2)
- AC power cord (2)

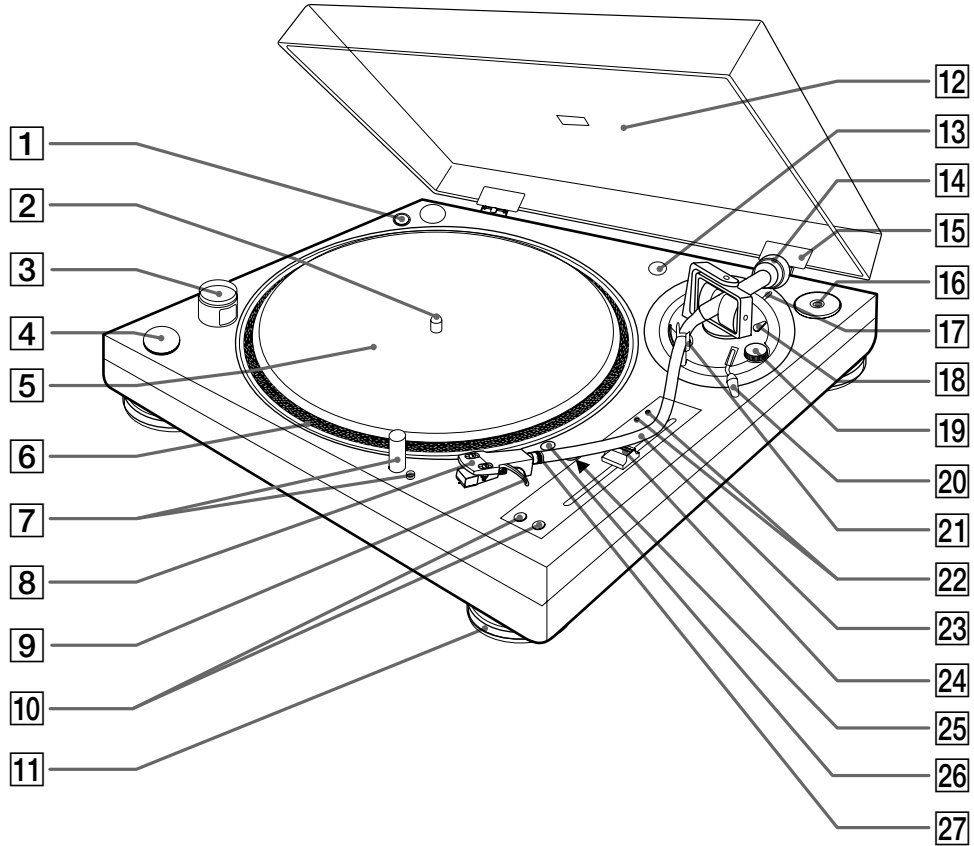
Supplied Accessory

- AC power adaptor cord (1)
- Audio cord (without ground wire) (2)

Design and specifications are subject to change without notice.

Parts and Controls

PS-DJ9000 Stereo Turntable System

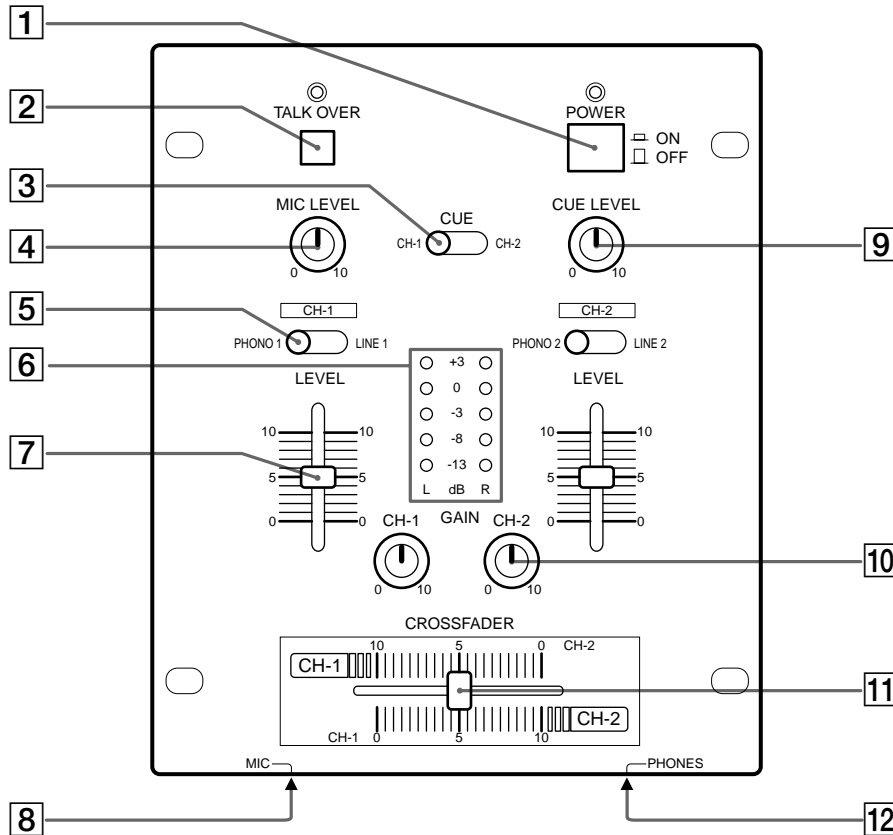


- | | |
|---|--|
| <p>1 POWER ON/OFF switch</p> <p>2 Spindle</p> <p>3 Strobe lamp</p> <p>4 START/STOP button</p> <p>5 Slip mat</p> <p>6 Platter</p> <p>7 TARGET LIGHT and release button
The TARGET LIGHT allows you to see the position of the stylus in the dark. Push and depress the TARGET LIGHT to turn it off. Push the release button to raise the light again and turn it on.</p> <p>8 Cartridge and headshell</p> <p>9 Finger lift</p> <p>10 PITCH BEND + and - buttons</p> <p>11 Insulator</p> | <p>12 Dust cover</p> <p>13 Headshell holder</p> <p>14 Counter weight</p> <p>15 Hinge</p> <p>16 45 adaptor</p> <p>17 height adj (adjusting) lever
Use this lever to adjust the vertical position of the tonearm (23).</p> <p>18 LOCK lever (for height adjustment)</p> <p>19 ANTI-SKATING dial</p> <p>20 Cueing lever</p> <p>21 Arm stand</p> <p>22 Speed-adjustment hole
This hole is for use by qualified service technicians only.</p> <p>23 Tonearm</p> <p>24 PITCH ADJ. (adjusting) knob</p> <p>25 QUARTZ lock button</p> <p>26 SPEED (33/45) button</p> <p>27 Locking ring</p> |
|---|--|

MX-DJ9000 Audio Mixer (control panel)

Control of the turntable signal is possible only after the PHONO/LINE switches (5) are set to PHONO. The signal is then controlled via the CH-1 and CH-2 faders.

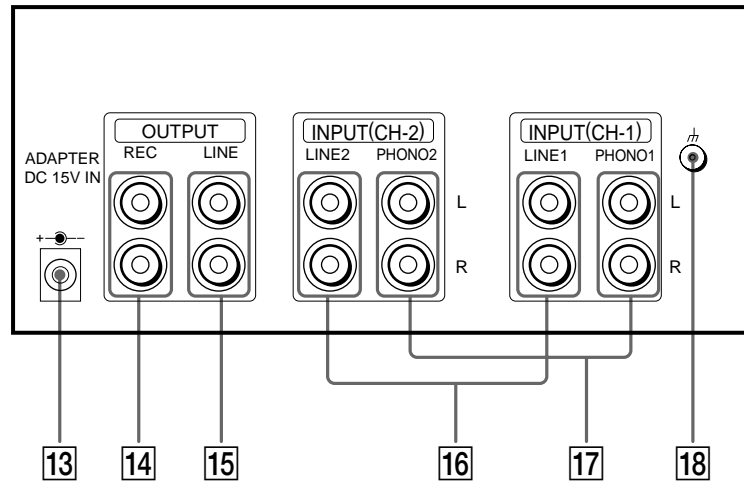
Connect a tape recorder, tuner, CD player, cassette deck or any other line signal to the LINE/AUX jacks on the rear panel. Control of the line signal is possible only after the PHONO/LINE switches are set to LINE. The signal is then controlled via the respective faders.



- | | |
|--|--|
| <p>1 POWER switch</p> <p>2 TALK OVER button
Press this button to use the microphone.</p> <p>3 CUE select switch
This switch selects CH-1 or CH-2 for headphone listening.</p> <p>4 MIC LEVEL control
Adjusts the microphone level.</p> <p>5 PHONO/LINE switch
Selects the signal to be input to the respective channel.</p> <p>6 Channel level display
Shows the left and right levels of the output.</p> <p>7 Channel level knob
Adjusts the level of each channel.</p> <p>8 MIC jack
You can connect microphones with mono plug.</p> | <p>9 CUE LEVEL control
Adjusts the headphone volume without affecting the output signal.</p> <p>10 GAIN control
Use these controls to adjust the balance between CH-1 and CH-2.</p> <p>11 CROSSFADER knob
Mixes the signal of one channel with that of the other. For details on replacing the crossfader, see page 10.</p> <p>12 PHONES jack
Use this jack to connect headphones. Accepts headphone with an impedance of 16 ohms or more, but 16 ohms is recommended. Select CH-1 or CH-2 with the CUE select switch.</p> |
|--|--|

Additional Information

MX-DJ9000 Audio Mixer (Rear Panel)



- 13** ADAPTER DC 15V IN
Connect AC power adaptor here.
- 14** REC OUTPUT jacks
Use these jacks to connect a recording unit.
- 15** LINE OUTPUT jacks
Use these jacks to connect a stereo component system or a power amplifier.
- 16** LINE INPUT jacks
Use these jacks to connect CD players or tape decks. Line signals from musical instruments with stereo output (such as rhythm machines and samplers) can also be connected to these jacks.
- 17** PHONO INPUT jacks
Use these jacks to connect turntables PS-DJ9000.
- 18** ⏏ (Ground) terminal
Use this terminal to connect the ground wire from the turntable to minimize humming and pop noises.

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