

JVC | Instruction Book

AUTO-RETURN TURNTABLE **JL-A20**



For Customer Use;

Enter below the Model No. and Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

A GUIDE TO THIS INSTRUCTION BOOK

Thank you for buying JVC's JL-A20 stereo turntable. You are now the owner of a sophisticated turntable.

Many advanced features of this turntable will be correctly and efficiently utilized only when you read this instruction book, understand it and operate the turntable correctly.

Before the setting-up, you should read the important precautions in this manual. Wishing you happy and successful listening.

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IMPORTANT

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO PREVENT ELECTRICAL SHOCK, DO NOT REMOVE SCREWS, COVER OR CABINET. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

In the United Kingdom (U.K)

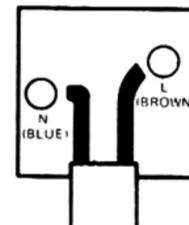
THE MAINS VOLTAGE OF THIS APPARATUS HAS BEEN FIXED TO 240V~, 50Hz.

IMPORTANT

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

IMPORTANT

Installation

- * Select a place which is level, dry and neither too hot nor too cold (between -5° and 40° C/ 23° F and 104° F).
 - Keep the turntable from direct sunlight.
 - Do not put it too close to a heater.
- * To decrease noise
 - Keep it as far from your TV as possible.
 - Do not use it where it is dusty.
 - Do not place the turntable just on top of an amplifier as hum noises may be induced from the power transformer.
- * To prevent stylus tripping
 - Do not use it in a place subject to vibrations.
 - Place the turntable as far away from speakers to prevent howling as possible.

Power

- * Check that the turntable is set for your local supply voltage and frequency. If not, consult the dealer from whom you bought it.
- * Do not handle the power cord with wet hands!
- * Do not bend the power cord sharply.
- * When unplugging from the wall outlet, always pull the plug, not the power cord.

Malfunctions, etc.

- * There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- * Do not insert any metallic object inside the turntable.
- * Do not allow water to get inside the turntable.
- * Tracking force will affect the reproduced sound quality. It should be properly adjusted.
Refer to the "Preparation – tracking force adjustment."

PREPARATION

Until you finish all the preparatory processes, do not plug the power cord into the wall supply outlet.

■ Unpacking

Unpack the turntable as shown in Fig. 1.

Note: Do not remove the stylus protector cover until you adjust the "Tracking Force".

■ Setting Up

Drive belt threading

1. Turn the speed selector knob to "33".
2. Find the drive belt fitted underneath the platter.
Thread the belt through the shifter and place it over the motor pulley as shown in Fig. 1.

Main weight mounting

Mount the main weight onto the weight shaft (slide pipe) with the tracking force dial end toward the tonearm support base and slide it as close to the tonearm base as possible as shown in Fig. 1.

Placing the platter mat and the EP adaptor

Place the rubber mat on the platter, and put the EP adaptor onto the EP adaptor boss.

Headshell mounting

Insert the headshell into the connector nut at the end of the tonearm. Push it slightly to the arm base and tighten it firmly by turning the connector nut. Do not remove the stylus protector cover during this procedure.

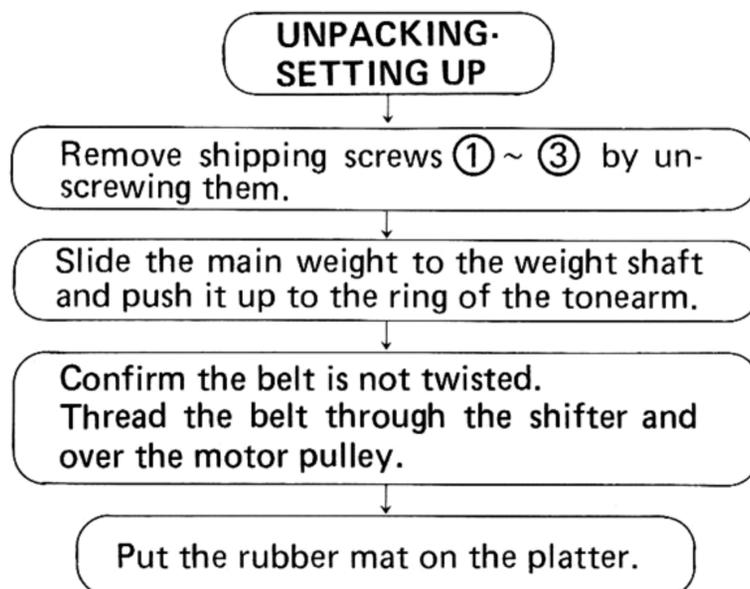
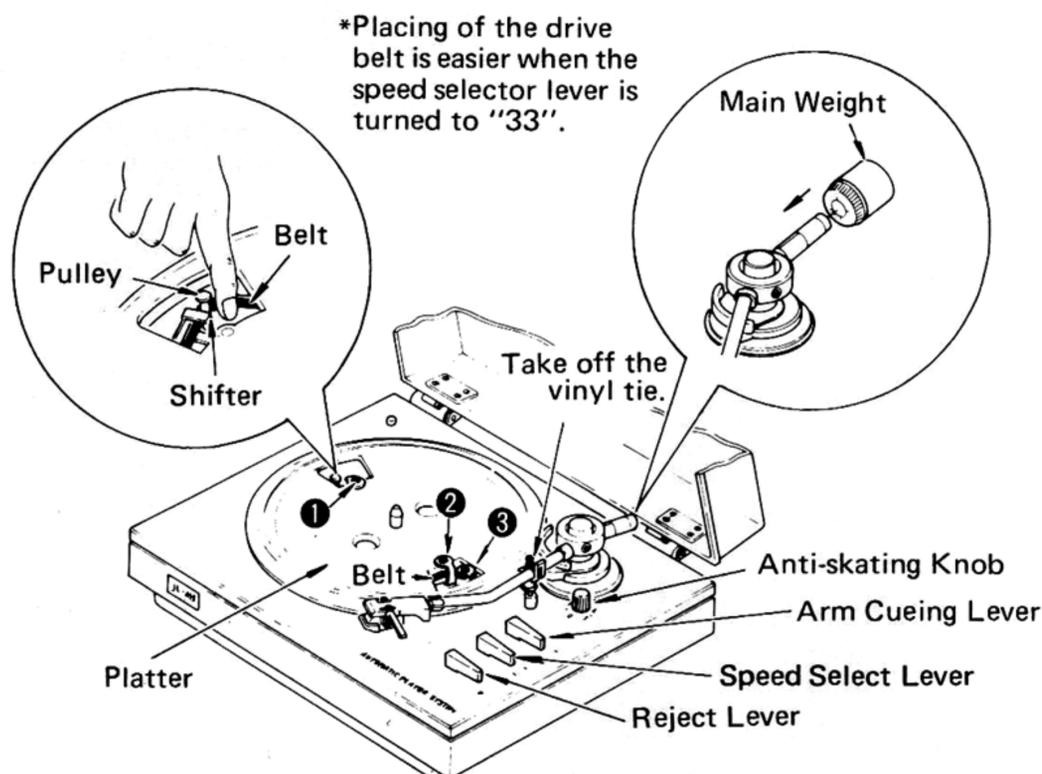


Fig. 1

ADJUSTMENT

■ Tracking force adjustment

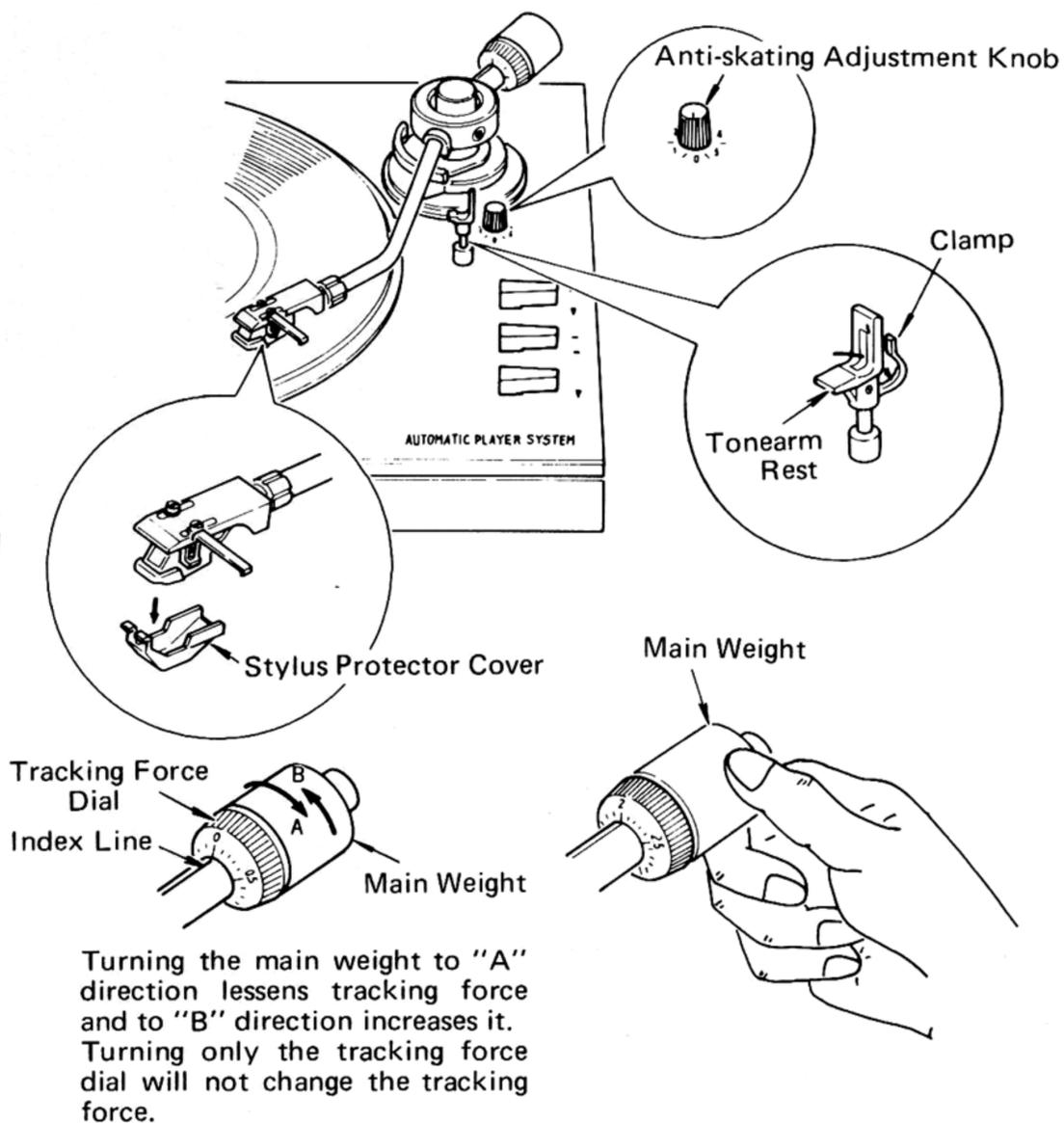
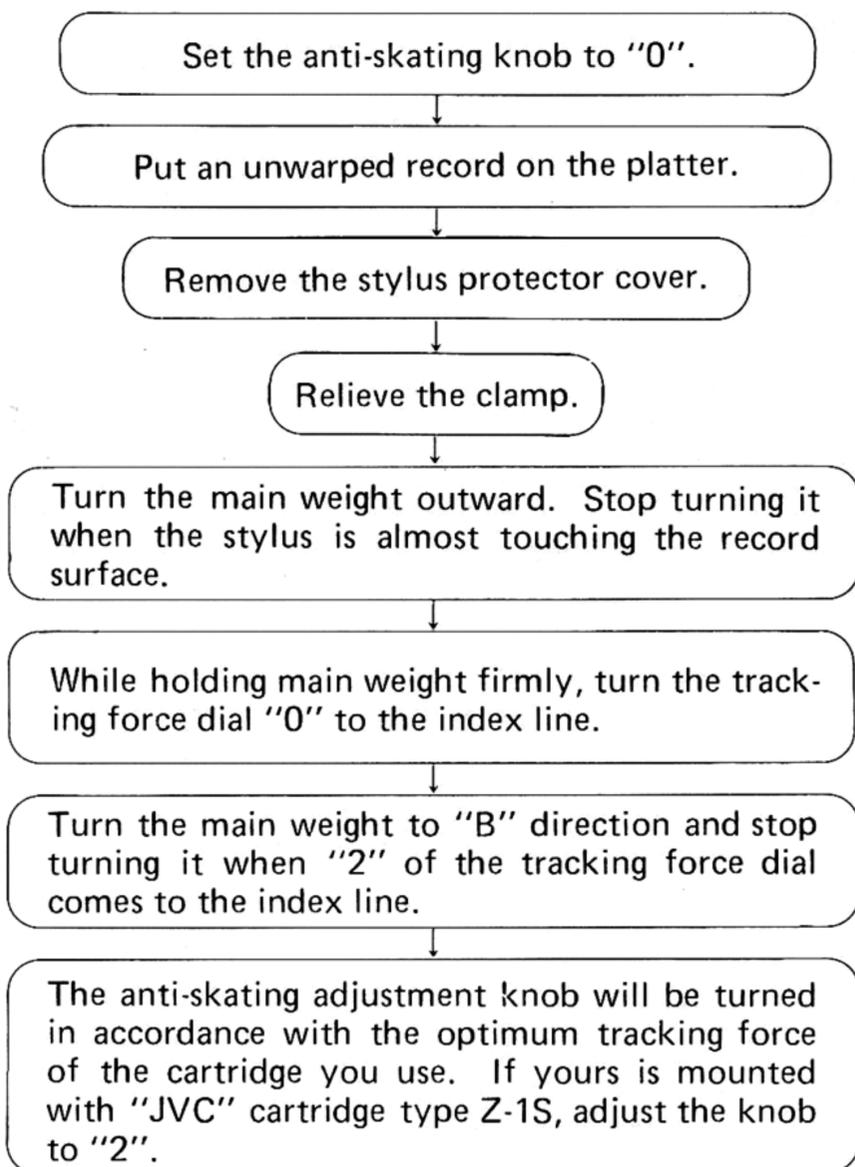


Fig. 2

The following adjustments will be necessary when you replace the cartridge.
(Do not use any other headshell than the one provided.)

■ Anti-skating adjustment

Turn the dial of the anti-skating knob to the tracking force of the cartridge you mounted on your JL-A20 or to the same number of the dial as the number on the tracking force dial. (See Fig. 3)

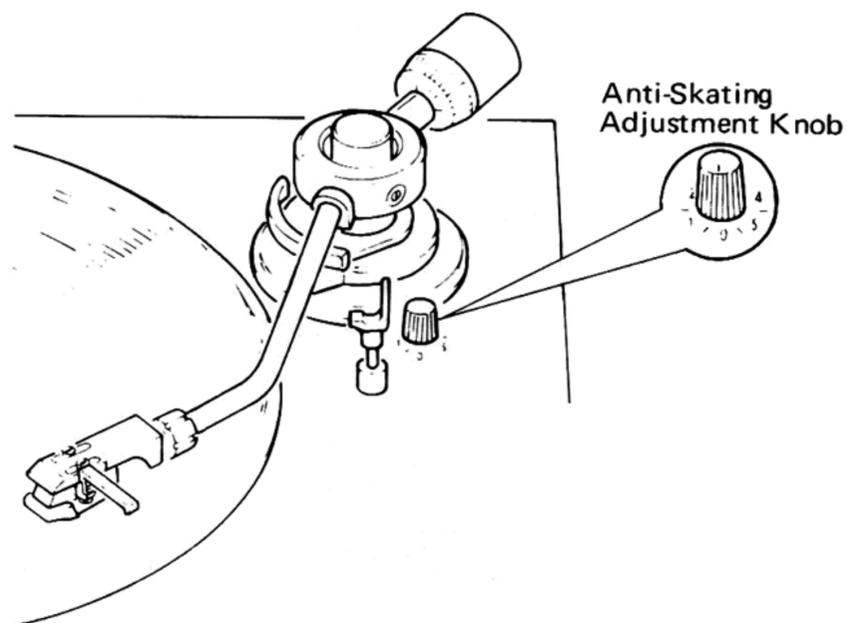


Fig. 3

■ Overhang adjustment

(Stylus tip position adjustment)

Loosen the stylus mounting screws and slide the cartridge to adjust the stylus tip position so that tip is coming just over the overhang indicator. (See Fig. 4)

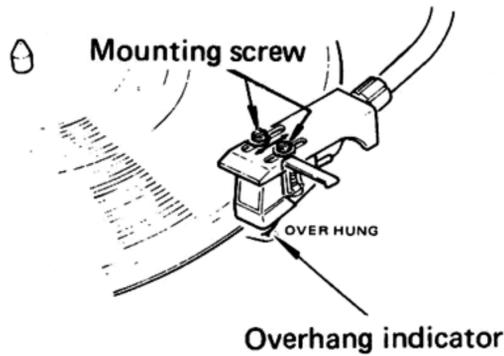


Fig. 4

■ Arm elevator height adjustment

Adjust the height of arm elevator with the adjustment screw so that the distance between the stylus tip and the surface of record is about 6mm when the stylus is elevated. Turn the height adjustment screw clockwise to lower, and counterclockwise to raise the arm elevator level. (See Fig. 5)

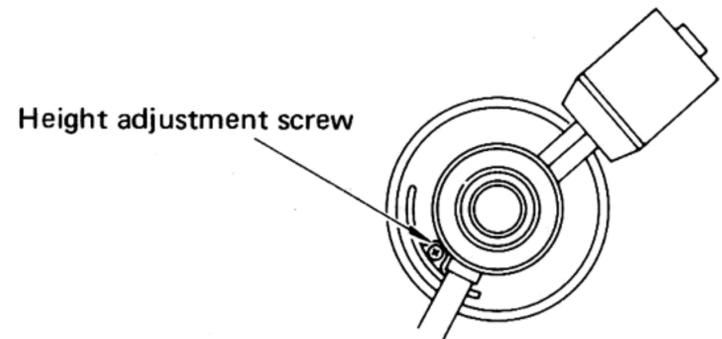


Fig. 5

CARTRIDGE MOUNTING

Connect the lead wire sockets to the appropriate pins on the replacement cartridge, then fix the cartridge to the headshell with the two fixing screws. Keep the fixing screws untightened so that you can undertake the eventual overhang adjustment procedures easily.

(The four cartridge lead wires are colour-coded as following.)

Blue (to "LE" or "L-" on the cartridge)

Green (to "RE" or "R-")

Red (to "R+" or "R")

White (to "L+" or "L")

Note: The JL-A20 for U.S. military market has the 4DT-Z1S as the standard stylus.

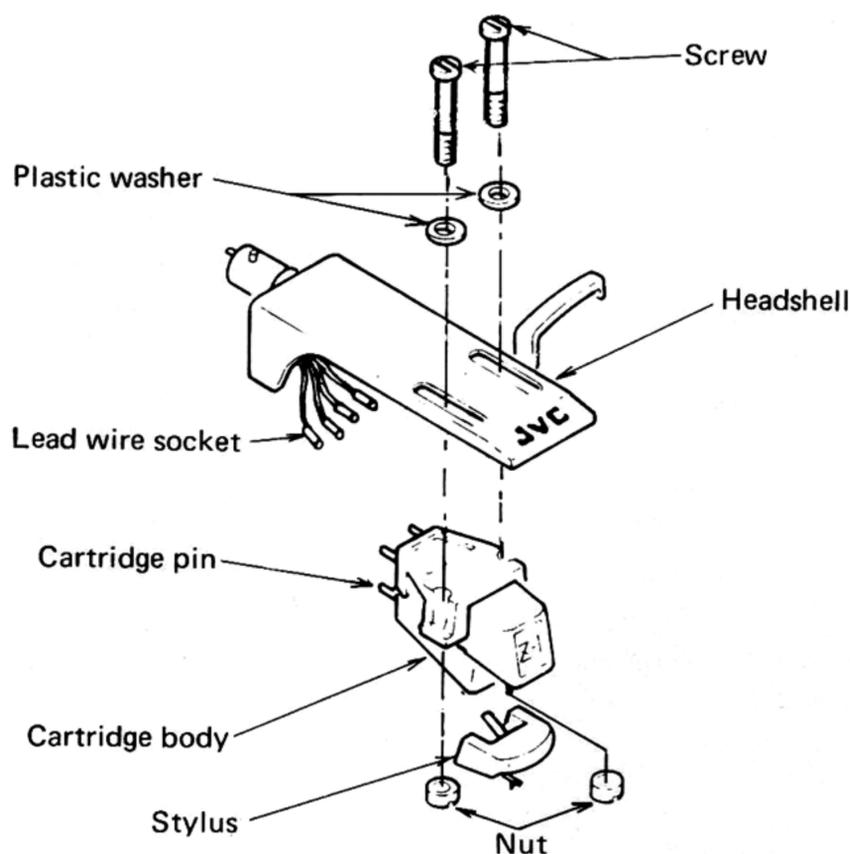


Fig. 6

LUBRICATION

The motor provided in this unit can be used for 1,000 – 2,000 hours without lubrication due to large capacity of the oil-tank for such long-term lubrication. Apply a high quality mineral oil such as sewing machine oil through the oiling hole (A) below the pulley as in Fig. 7 every 1,000 – 2,000 hours of operation for normal home use.

For frequent or continued use, lubricate the turntable once a month or so with a high quality mineral oil.

Note: Make sure that oil does not come in contact with the belt, platter or pulley. Otherwise increased wow and flutter or other troubles may result. Clean them with alcohol if they get stained with oil.

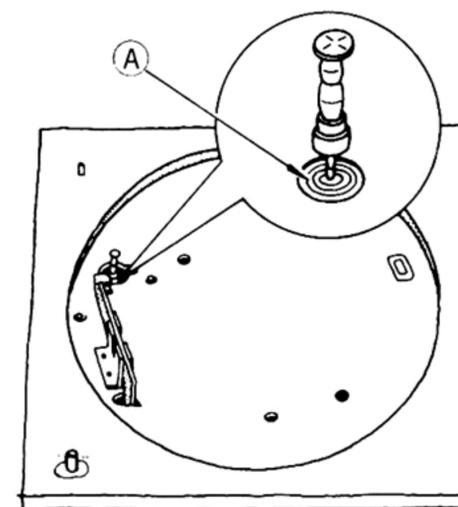
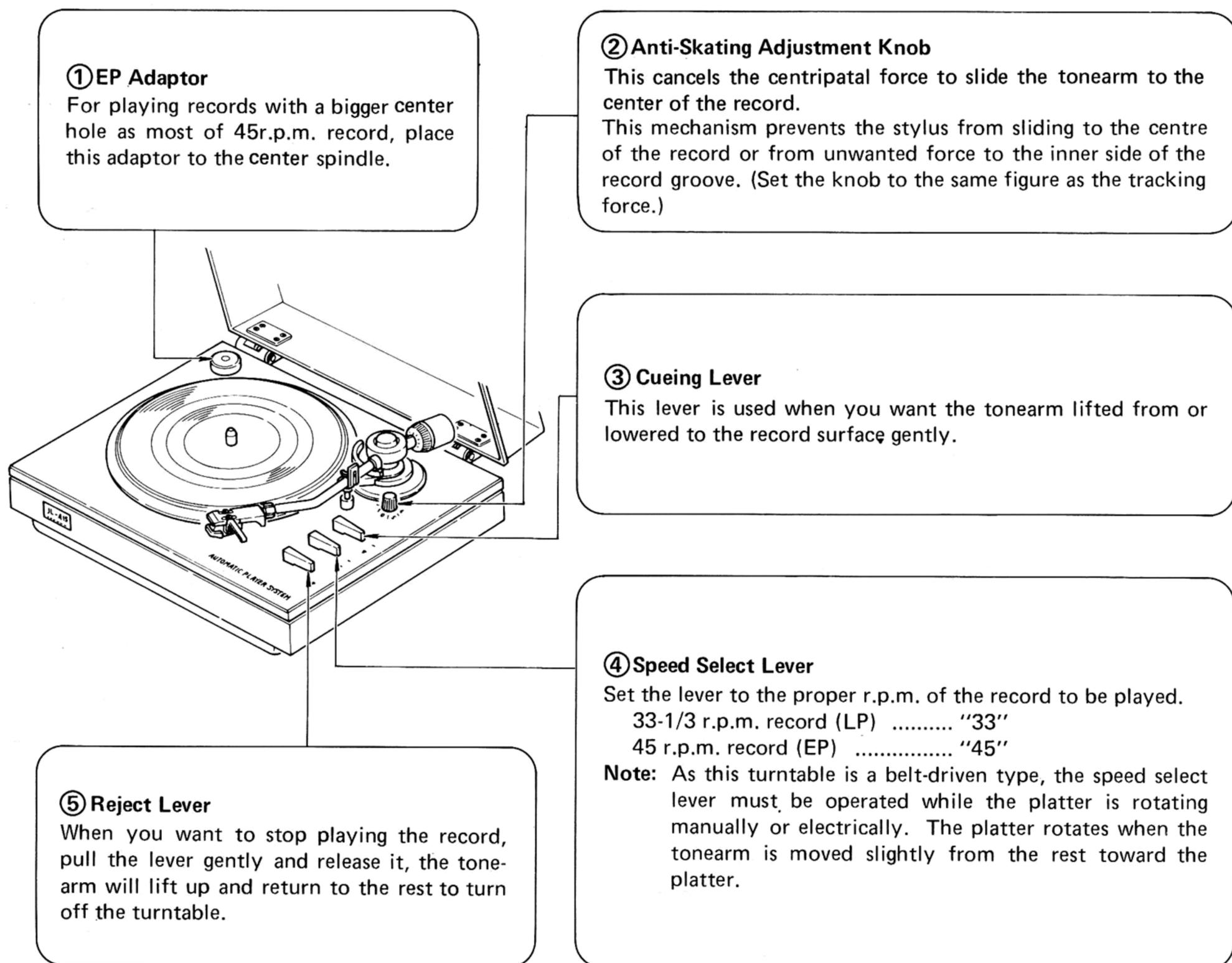


Fig. 7

HOW TO USE

■ Names and functions



■ Operation

1. Put a record on the platter.
2. Remove the stylus protector cover.
3. Set the speed select lever ④ to "33" or "45" according to the r.p.m. of the record.
4. Confirm the arm cueing lever ③ is at "UP" position.
5. Move the tonearm to the record groove to be played.
6. Pull the arm cueing lever ③ to "DOWN" position, the tonearm gently lowers itself to the record surface.
7. When the tonearm traces the innermost groove, it will automatically lift up and return to the rest to turn off the platter.

Note: When the arm cueing lever is set at "DOWN" position, and you move the tonearm to any position of a record surface, manual operation can be made. In this case, however, when you accidentally move the tonearm on the record surface, you may damage grooves of the record.

When you want to stop playing a record

Pull the reject lever ⑤ gently toward you and release it.

TROUBLESHOOTING

What seems to be trouble is not always real trouble. Make sure first.

No sound at all

- 1) Are the cable connected properly?
(Cables should be connected firmly and properly.)
- 2) Is the tape monitor switch of the amplifier turned on?
(The tape monitor switch should be turned off.)
- 3) Is the speaker select knob of the amplifier set at "SPEAKER OFF" position?
(The speaker select knob should be set to 1 or 2.)
- 4) Is the source select knob set to other sources than "PHONO"?
(The source select knob should be set to "PHONO" position.)
- 5) Is the volume control of the amplifier set at "MIN"?
(The volume knob should be increased to your desired level.)
- 6) Is the connector nut of the tonearm loose?
(The connector nut should be firmly tightened.)
- 7) Are cartridge wires coming off or loosely connected?
(The cartridge wires should be firmly connected.)

Noises when playing record

- 1) Is the record worn?
(Replace it with a new one.)
- 2) Is the stylus tip worn?
(Replace it with a new one.)
- 3) Is dust stuck on the stylus tip?
(Clean it with a stylus cleaner.)
- 4) Is the record stuck with dust?
(Clean the record grooves with a record cleaner.)

- 5) Are there low and loud hum?
(Change the power cord path or reverse the AC plug.)
- 6) Are mechanical noises heard when the platter begins to rotate?
(Lubricate at the base of pulley with a quality mineral oil such as sewing machine oil.)

The platter is not running

- 1) Is the power cord coming off from the AC outlet?
- 2) Is the driving belt not threaded through the shifter and over the motor pulley?
(Refer to 'Drive belt threading' on page 2.)

The stylus is hopping or skating

- 1) Is the tracking force too light?
(Adjust the tracking force.)
- 2) Is the anti-skating knob set properly?
(Refer to "Anti-skating adjustment".)
- 3) Is the record heavily warped?
(Replace it with an unwarped one.)
- 4) Is the turntable installed in a place subject to vibration?
(Select a vibration-free place for installation.)

The loud howling

- 1) Is the turntable near the speakers?
(Put it at least 40cm apart from the speaker.)
- 2) Is the turntable put on the speaker box?
(Move it to a place as far from speakers as possible.)
- 3) Is the volume or bass tone control emphasized to distort the sound?
(Decrease the volume or base tone control to a level of undistorted sound.)

SPECIFICATIONS

MOTOR AND PLATTER

Drive System:	Belt drive system
Drive Motor:	4-pole synchronous motor
Speeds:	33-1/3 and 45 rpm
Wow and Flutter:	Less than 0.06% (WRMS)
Signal to Noise Ratio:	Better than 53dB (IEC-B) Better than 63dB (DIN-B)
Platter:	12-inch (30cm) diameter die-cast aluminum alloy

TONEARM

Type:	Statically-balanced S-shaped tubular arm with JVC developed TH balancing system and with tracking force dial of 0.5 gram steps
Effective Arm Length:	220mm
Tracking Error:	+3° 35', -0° 43'
Overhang:	15mm
Applicable Tracking Force Range:	0 to 3 grams
Mountable Cartridge:	13~21g (Including Headshell)

CARTRIDGE (Except the JL-A20 for U.S.A., Canada and U.K.)

Type:	Moving magnet (MD-1025)
Stylus:	0.5mil. diamond for DT-Z1S
Optimum Tracking Force:	1.5 to 2.0 grams (DT-Z1S)
Output:	3mV (1kHz)
Frequency Response:	10 to 25,000Hz (DT-Z1S)
Separation:	Better than 25dB (1kHz)
Load Resistance:	47 to 100 kohms
Compliance:	25 × 10 ⁻⁶ cm/dyne (Static) 10 × 10 ⁻⁶ cm/dyne (Dynamic)

FEATURES

Tonearm Lifer, Automatic Mechanism, Removable Dust Cover, Anti-skating Device, etc

GENERAL

Dimensions:	46(W) × 36.8(D) × 13(H)cm (18-1/8 × 14-1/2 × 5-1/8 inch)
Weight:	6kg (13.2 lbs)
Power Source:	Refer to Table 1 at the back cover
Power Consumption:	Refer to Table 1 at the back cover



POWER SPECIFICATIONS

TABLE 1

Countries	Line Voltage & Frequency	Power Consumption
U.S.A., CANADA	AC 120V, 60Hz	13 watts
EUROPE CONTINENT	AC 220V~, 50Hz	13 watts
U.K., AUSTRALIA	AC 240V~, 50Hz	13 watts
U.S. MILITARY MARKET	AC 110~120V/220~240V Selectable, 50/60Hz	9 watts
OTHER AREAS	AC 110~120V/220~240V Selectable, 50/60Hz	13 watts