

CASSETTE-FM/MW/SW STEREO MUSIC SYSTEM

KH-4455

DS

OWNER'S MANUAL



Thank you for purchasing this PIONEER product.
Before operating it, be sure to read this manual.

 **PIONEER®**

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FEATURES

- **Quick Action Easy Access
Cassette Loading**

This revolutionary new approach from PIONEER will further enhance your simplified recording and tape playing pleasures. Please refer to "CASSETTE RECORDER OPERATION".

- **Recording with One-touch**

Just by depressing the Record Lever, Play Lever will be automatically locked. You can enjoy stereo music readily with one-touch.

- **Auto-repeat System**

Equipped with built-in auto-repeat system which is helpful when you want to listen to the tape repeatedly from the beginning.

If you set the Auto-repeat Switch to ON, as soon as the tape comes to the end, the tape is rewound automatically and Play Lever is locked. Then the playing starts from the beginning.

Note: When the Auto-repeat Switch is ON, the Stop/Eject Lever no longer functions as designated. To stop or remove the tape during auto-repeat operation, first place the Auto-repeat Switch to the OFF position then depress the Stop Lever.

- **Song Finder System Commences
Playback Automatically at
Beginning of Tune**

When the Song Finder Switch is turned on, the tape may be advanced or rewound to the beginning of a tune (by detecting the blank section of tape between tunes) for automatic commencement of playback of that tune. This same Song Finder Switch is also used in the preparation of the blank sections of tape required for the song finder system to operate.

- **Full Mode Auto Stop**

Your versatile cassette recorder is equipped with a full mode auto stop. This feature operates at the end of the tape whether you are playing, recording, rewinding or fast winding the tape.

- **Soft Touch Play and Record Levers are
the Result of Advanced Power Assisted
Keyboard Design**

- **High Sensitivity Tuner**

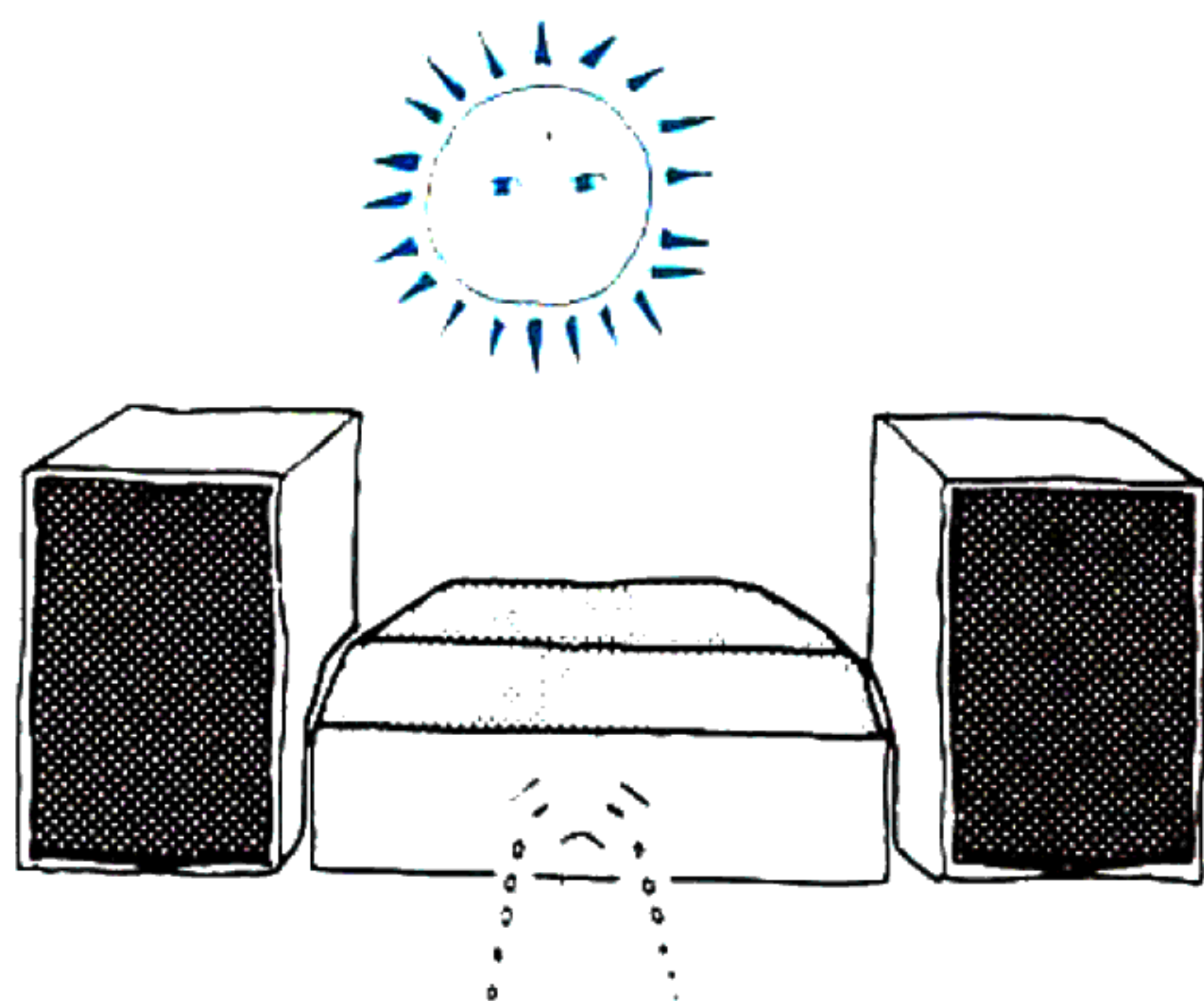
With a high sensitivity circuit, radio reception is clear and strong, and wonderfully free of noise.

- **Platter with Constant Speed**

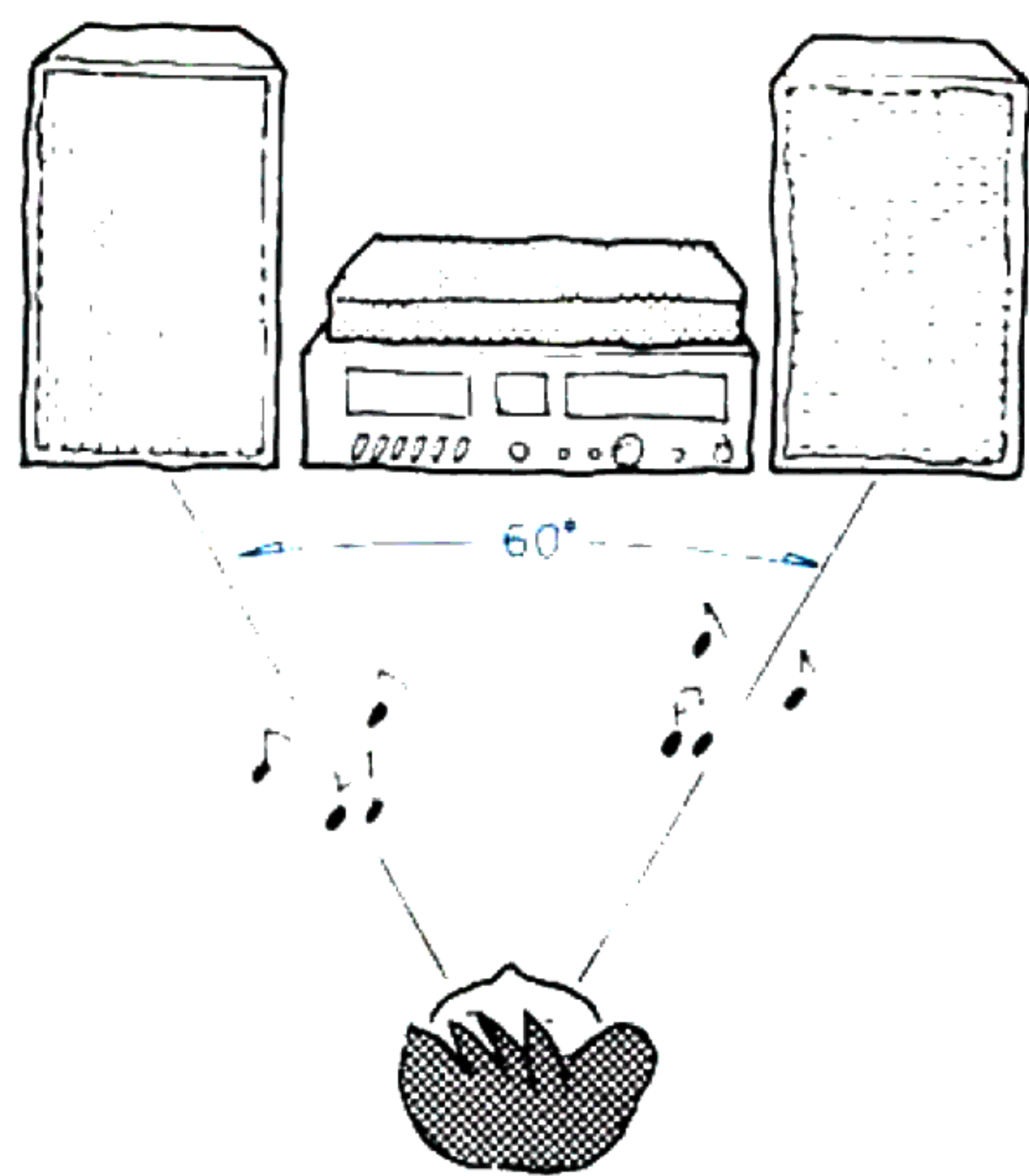
The Platter employs a DC motor and belt drive system so that the signal-to-noise ratio is good. The auto return, auto cut, and arm elevation mechanisms all combine to assure full enjoyment of record playing.

PLACE OF USE

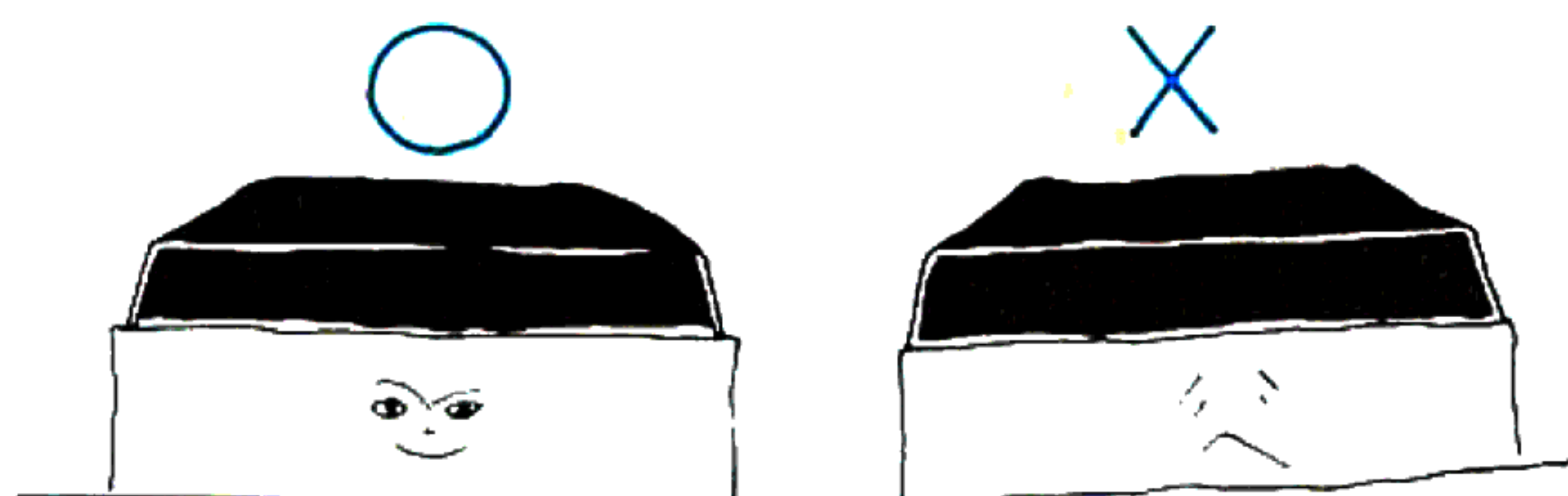
- To use your stereo set in the best condition for a long time to come, avoid using it in a place where it may be exposed to direct sunlight many hours a day, or much dust and moisture. Also, make sure that your stereo set is not close to a heater.



- The best listening position is a point a little behind the apex of an equilateral triangle formed with the speakers as the base, and the speakers should be at the same height as your ears.

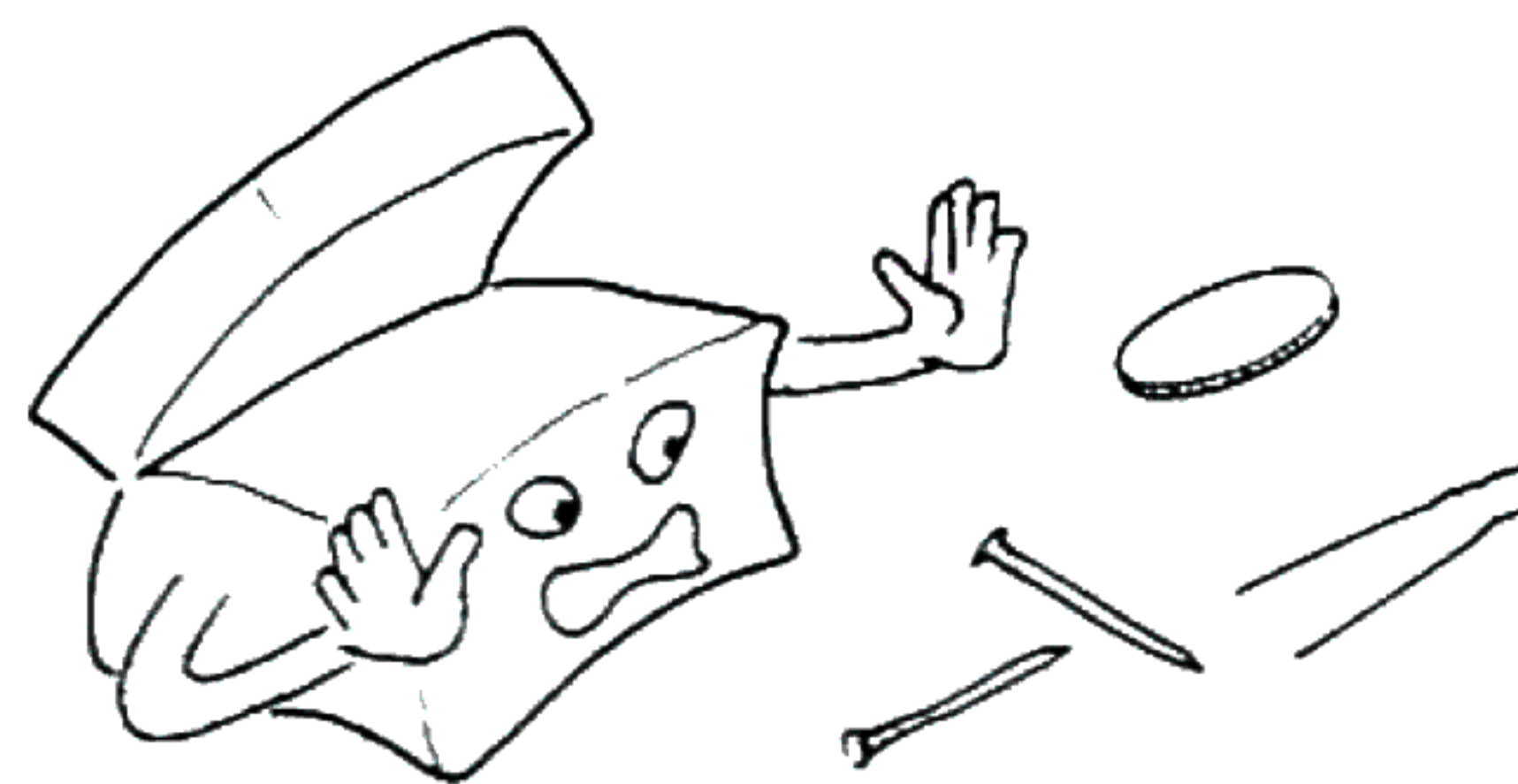


- The record player must be free of vibration. Place your record player horizontally where it is free from external vibration.



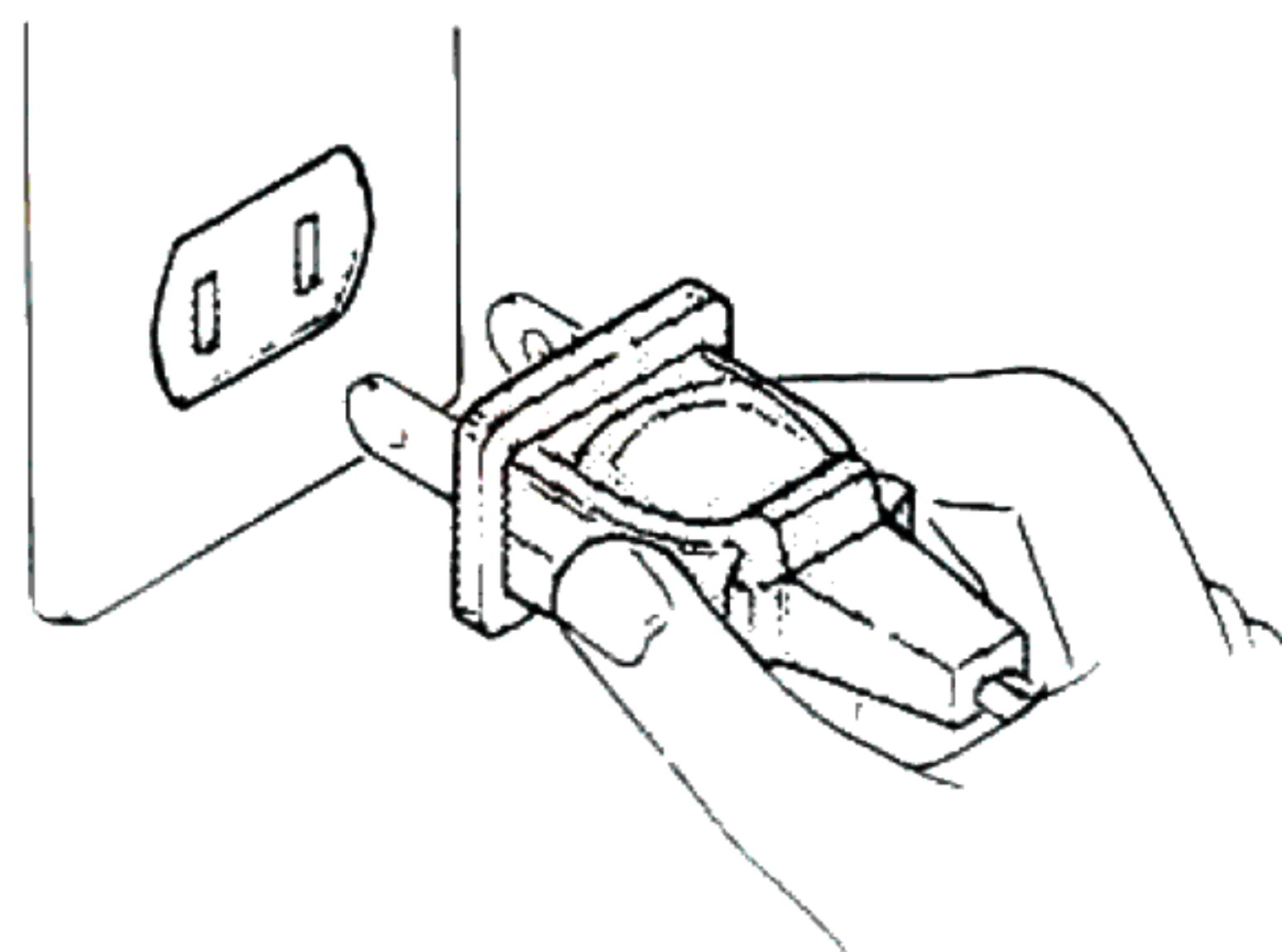
Warning Against Shock and Fire Risks

Do not poke metallic objects (such as hair pins and needles) or any other hard objects into the stereo set. Nor should any screws be undone and attempts made to repair internal circuitry or mechanisms. This warning is given to protect against possible electric shocks and fire hazards. If a failure occurs, contact your dealer or nearest Pioneer service station.



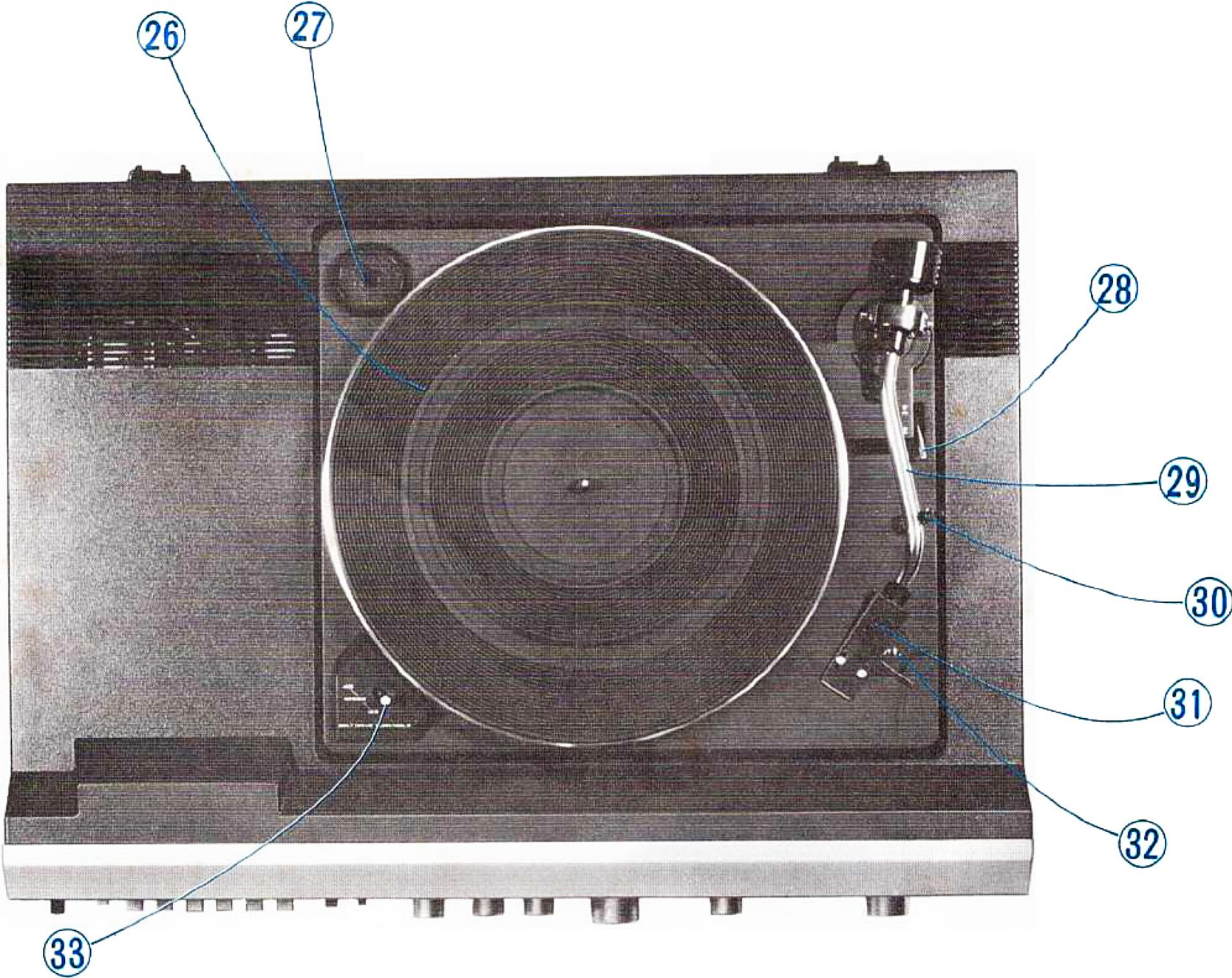
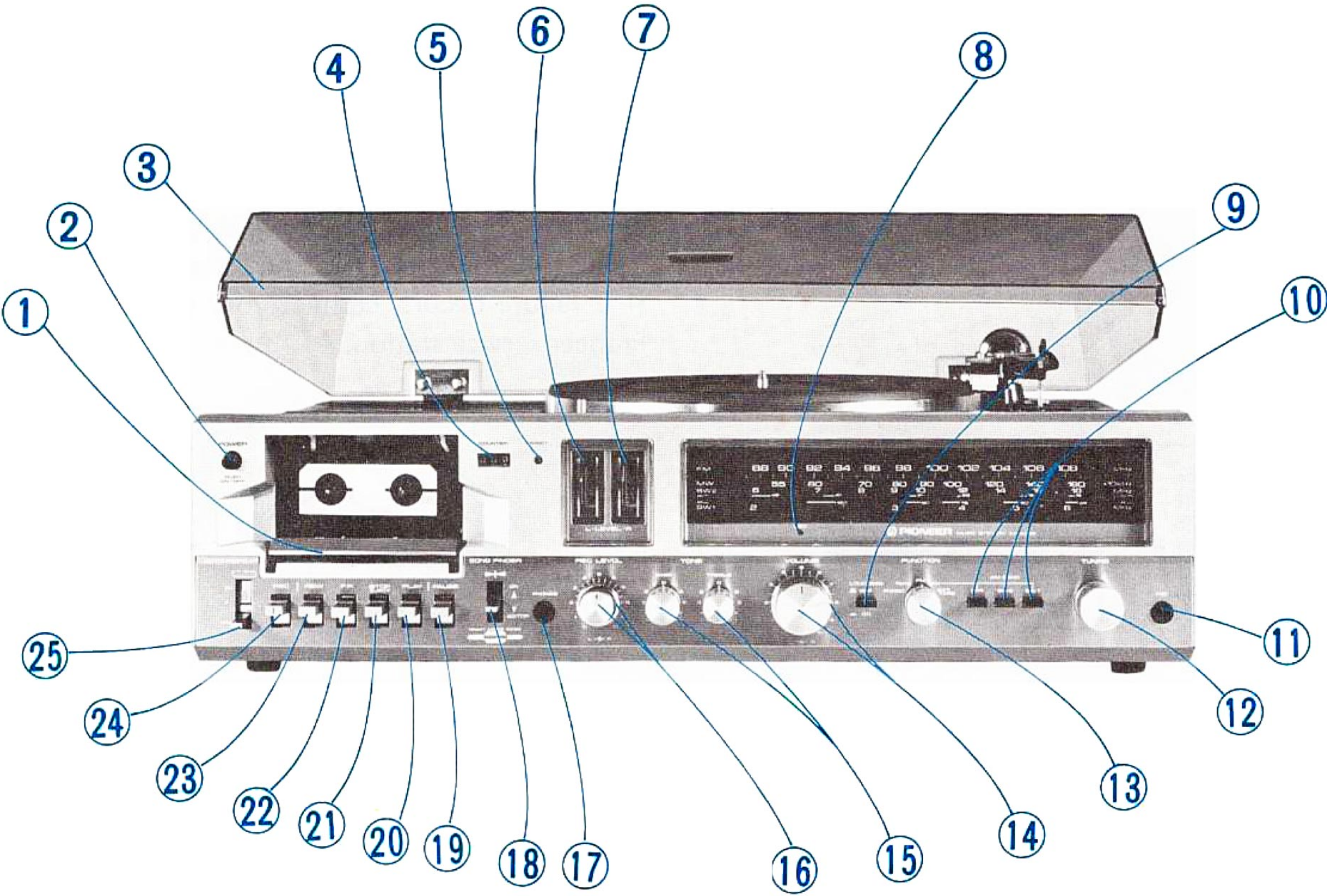
Power Cord

Whenever plugging or unplugging the power cord, always hold it by the plug, not the cord. Pulling by the cord may result in snapping of the line. Furthermore, never handle the plug while your hands are wet.



- Moisture forms in the operating sections of this model and the model's performance will be impaired if the model is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. To prevent any performance impairment, let the model stand in its new surroundings for about an hour before switching it on, or ensure that the room temperature rises gradually.

LOCATION OF PARTS AND CONTROLS



- ① Head Protector
- ② Power Switch
- ③ Dust Cover
- ④ Tape Counter
- ⑤ Reset Button
- ⑥ Lch. REC. Level Meter
- ⑦ Rch. REC. Level/Tuning Meter
- ⑧ Record Indicator
- ⑨ Loudness Switch
- ⑩ AM Band Switch
- ⑪ Microphone Jack
- ⑫ Tuning Knob
- ⑬ Function Switch
- ⑭ Volume Control
 - outside: Rch. Volume Control
 - in side: Lch. Volume Control
- ⑮ Tone Control
 - right side: Treble Control
 - left side: Bass Control
- ⑯ Record Level Control
 - outside: Rch. Record Level Control
 - in side: Lch. Record Level Control
- ⑰ Headphone Jack
- ⑱ Song Finder Switch
- ⑲ Pause Lever
- ⑳ Play Lever
- ㉑ Stop/Eject Lever
- ㉒ Fast Forward Lever
- ㉓ Rewind Lever
- ㉔ Record Lever
- ㉕ Auto-repeat Switch
- ㉖ Platter
- ㉗ EP Adaptor
- ㉘ Arm-elevation Lever
- ㉙ Tone Arm
- ㉚ Arm Rest
- ㉛ Headshell
- ㉜ Cut Lever
- ㉝ Speed Selector Lever

CONNECTION

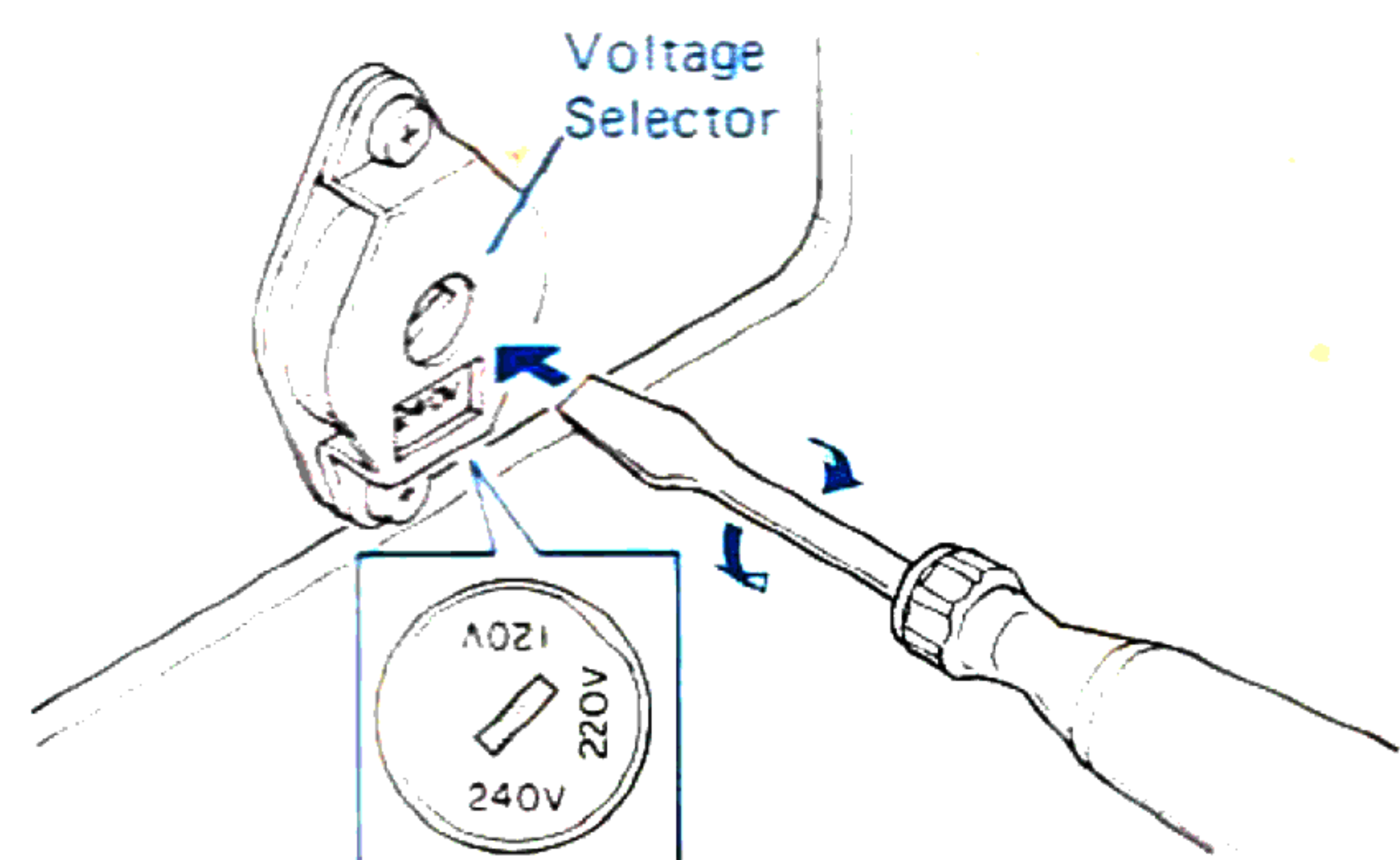
- Set the Power Switch to the OFF position before connecting your stereo set (POWER-OFF).
- The plugs must be securely inserted into the jacks. Otherwise, the stereo set may generate noise, or fail to produce sounds at all.
- To achieve optimum sound performance, it is recommended that original PIONEER'S speakers be used with this unit.
- It is recommended, however, that speakers used with the unit be a min. 8 ohms of impedance each.
- Extra care should be given to matched polarity connections when connecting the primary speakers with push button terminal.
eg: Positive ⊕ to positive ⊕.
Negative ⊖ to negative ⊖.
For each left or right side speakers.

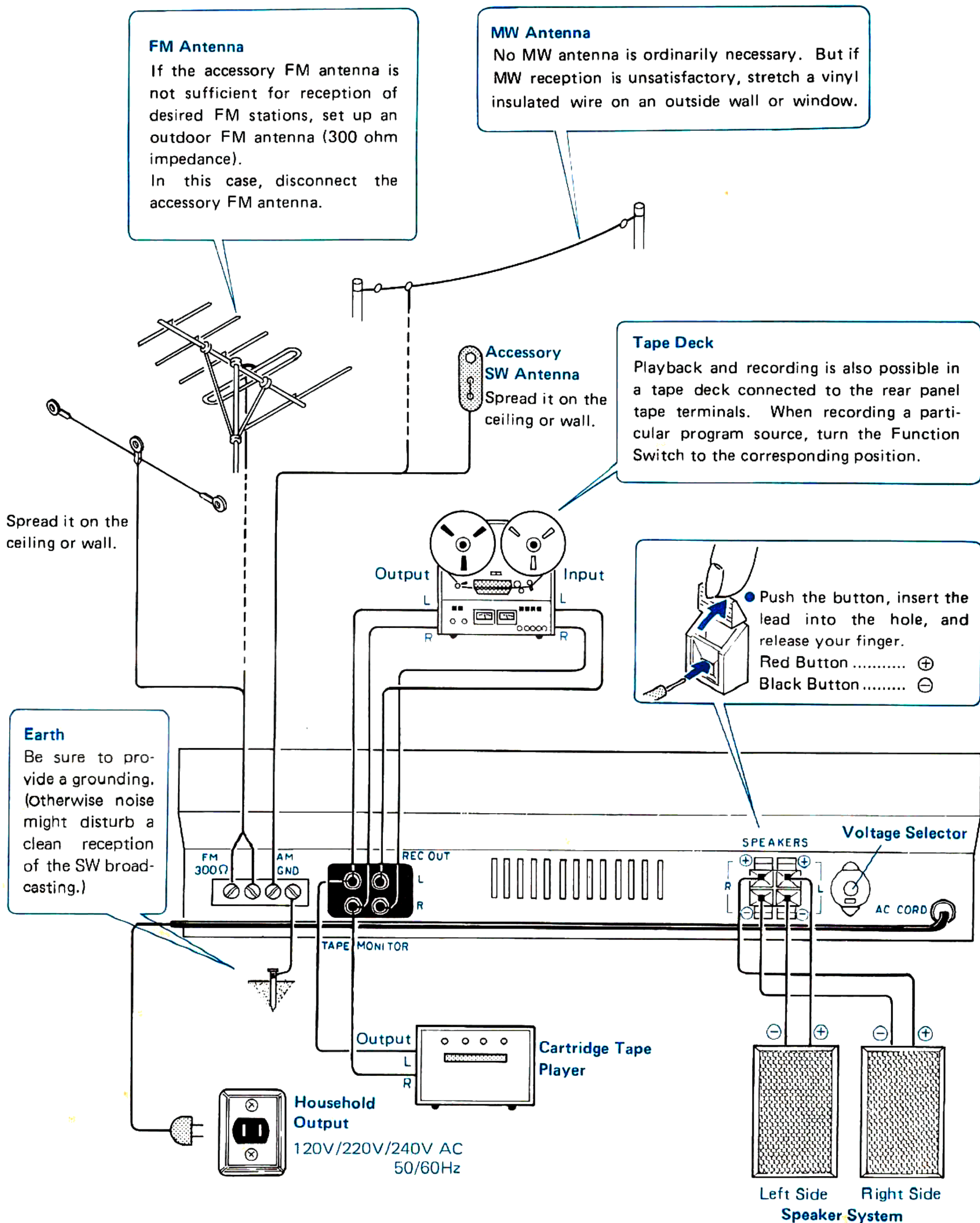
• Selection of Power Voltage

The model KH-4455 is operated on a three-way supply system which can be adjusted to the power voltage of your region, either 120V, 220V or 240V.

1. Make sure that the AC cord is not plugged in.
2. Using a screwdriver, set the Voltage Selector to the correct voltage for your region.

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- Be sure to set the Voltage Selector to the voltage in the area where you use the unit. If the Voltage Selector is set to a lower voltage in the area where a higher voltage is used, the unit may be damaged.
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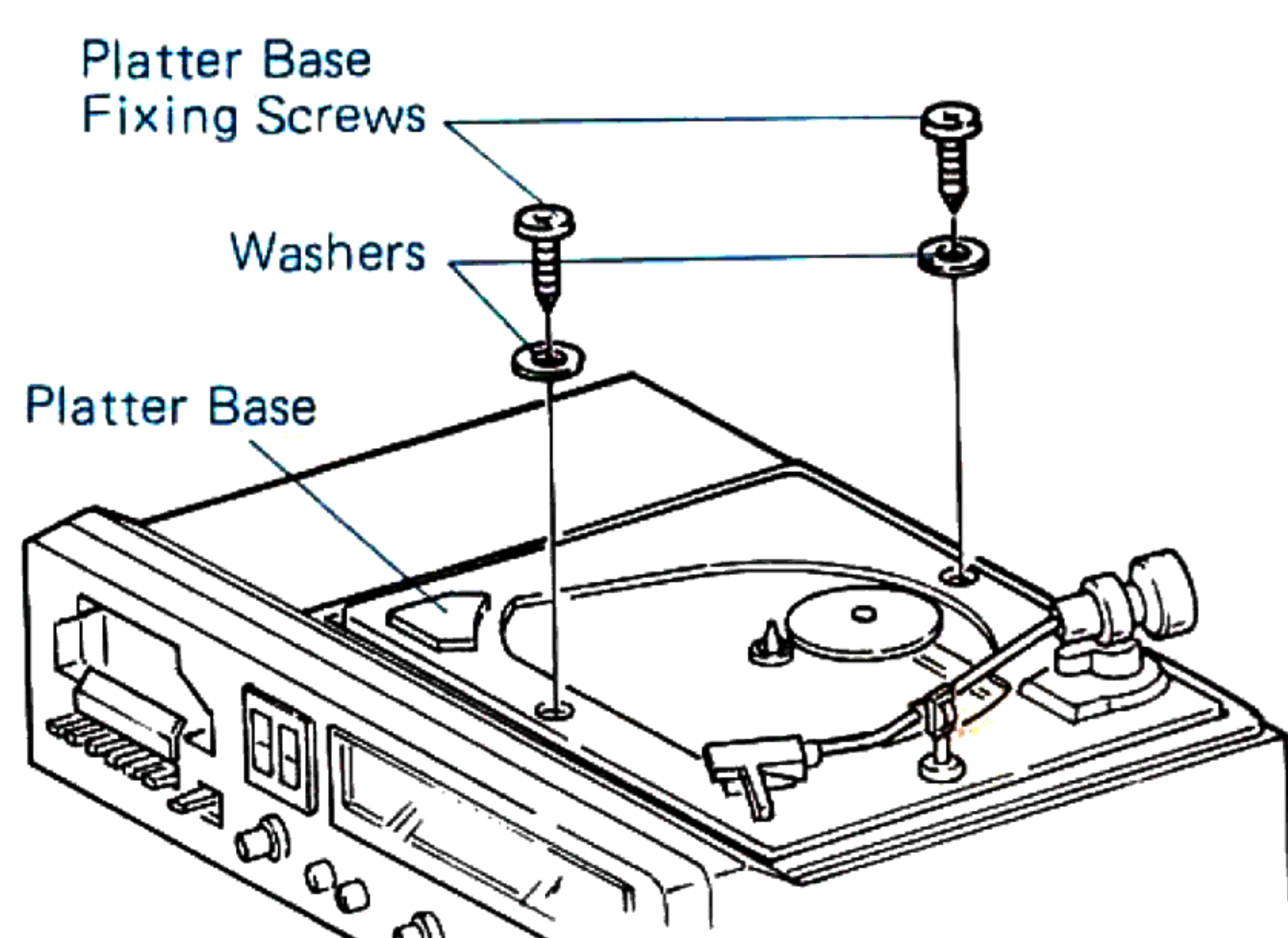




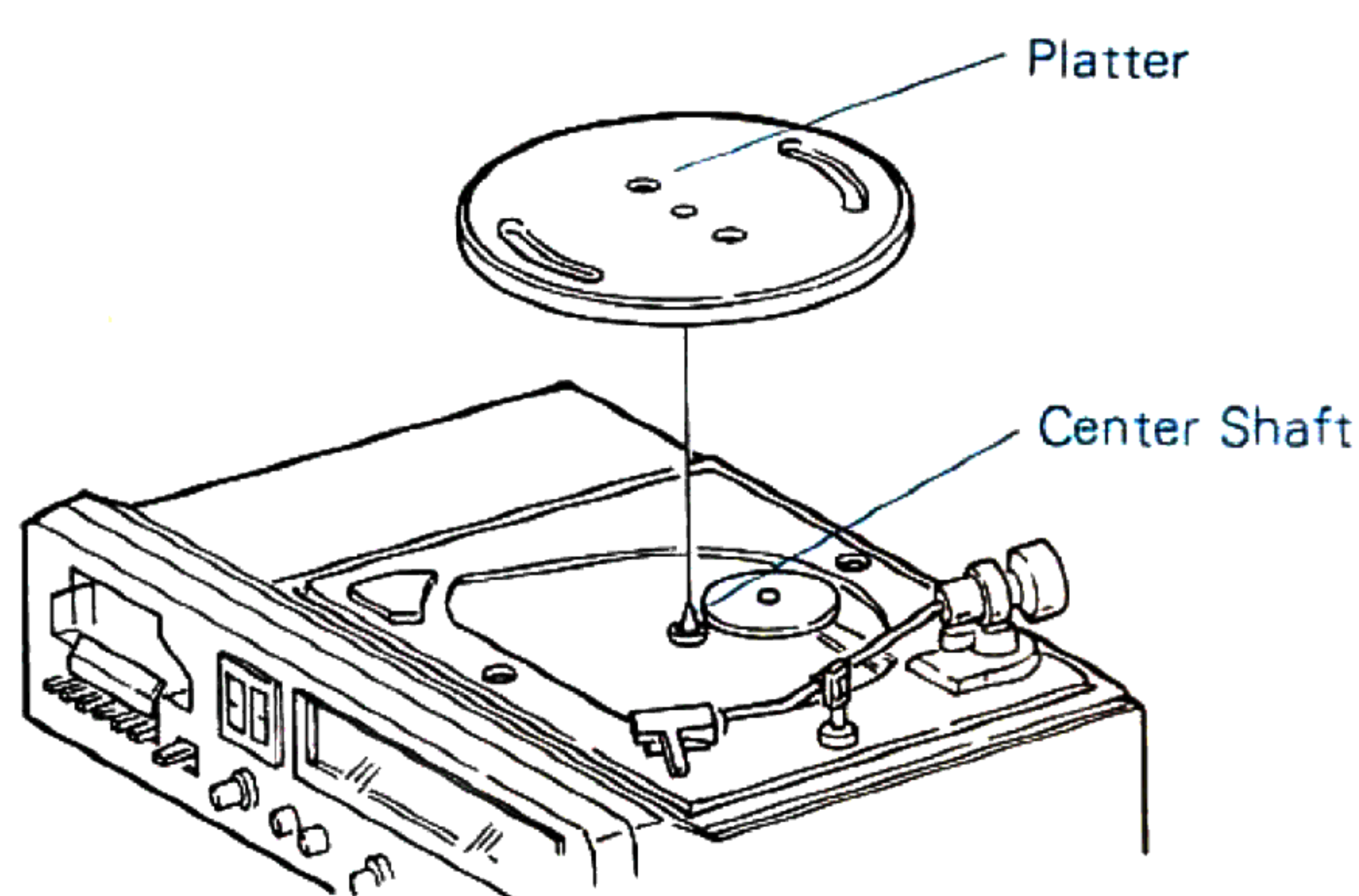
BEFORE OPERATING THE RECORD PLAYER

For shipment, the Platter and platter mat have been removed and packed separately. Follow these steps to reassemble the unit.

1. Remove the two platter base screws and washers as shown in the diagram. (These screws are used to protect the platter base during shipping. Keep these shipping screws in a safe place along with the owner's manual.)

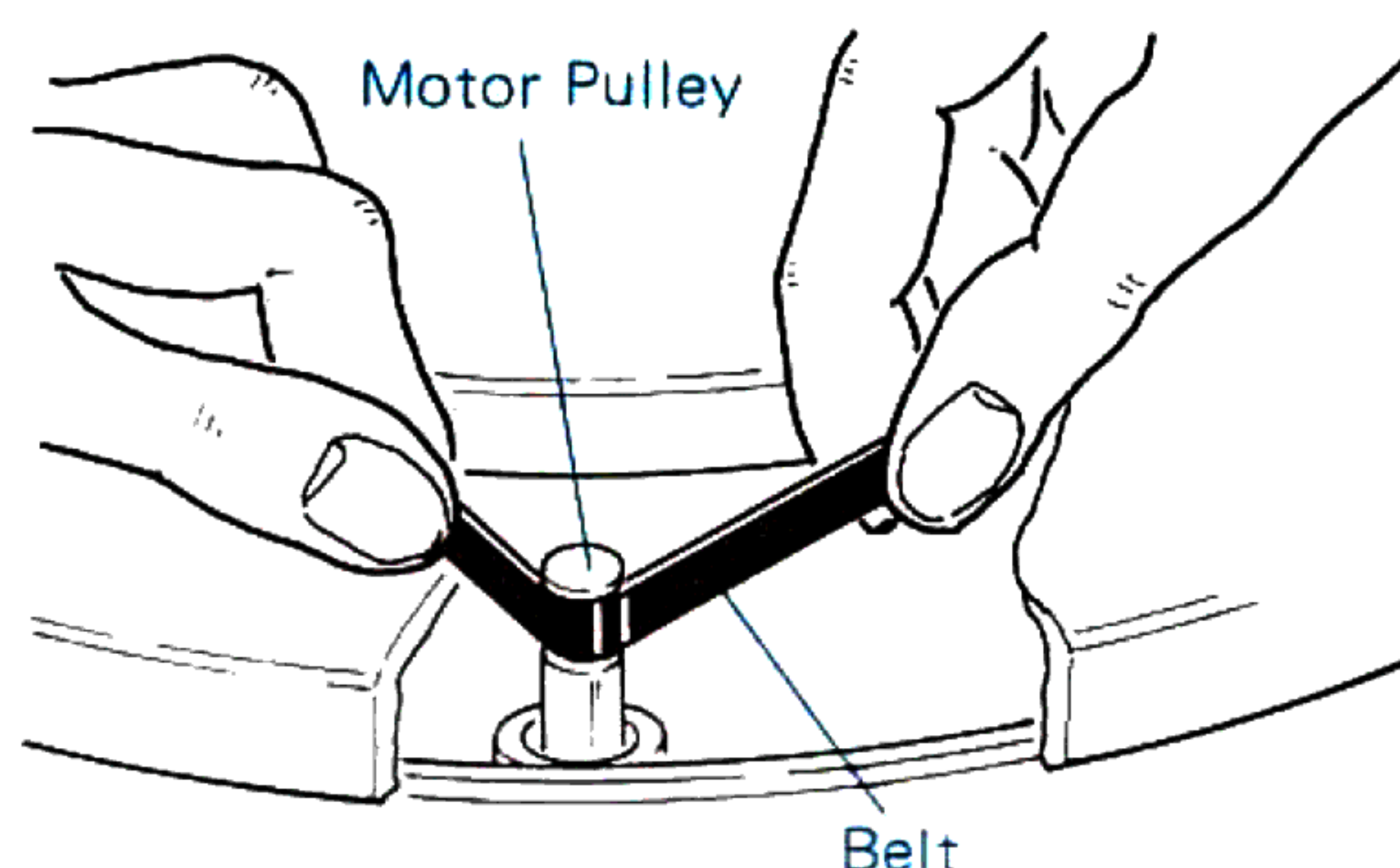


2. Fit the Platter over the center shaft.

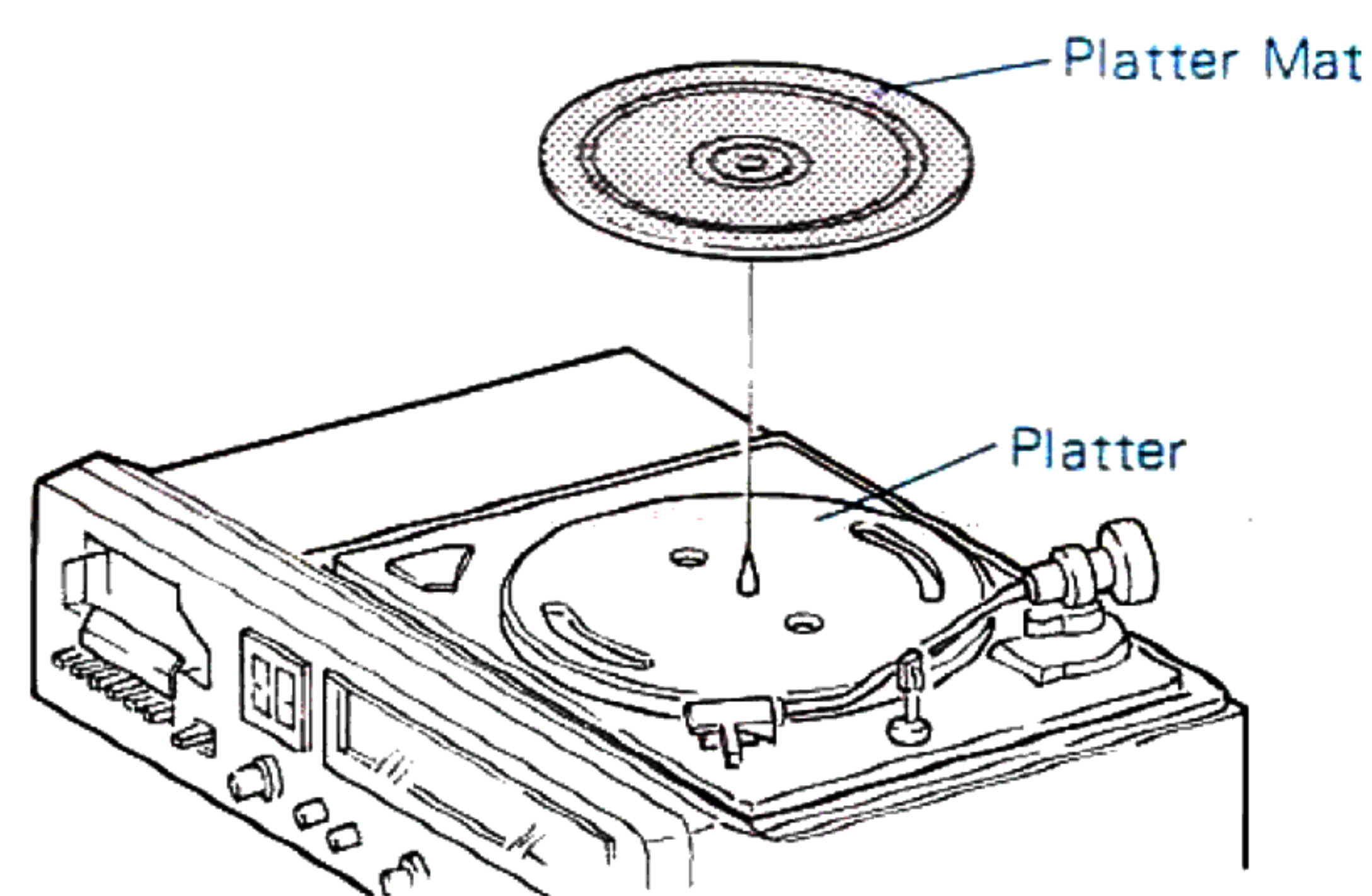


3. Hold the belt that is on the under side of the Platter and then over the top of the motor pulley.

After doing this, give the Platter a full clockwise turn to make sure that the belt is properly set on the groove of the motor pulley and is not twisted.



4. Place the platter mat on the Platter. Be sure the mat is absolutely flat.



Note: Keep the Dust Cover closed except when you need to open it. The Dust Cover is designed to protect the record player section from dust and dirt.

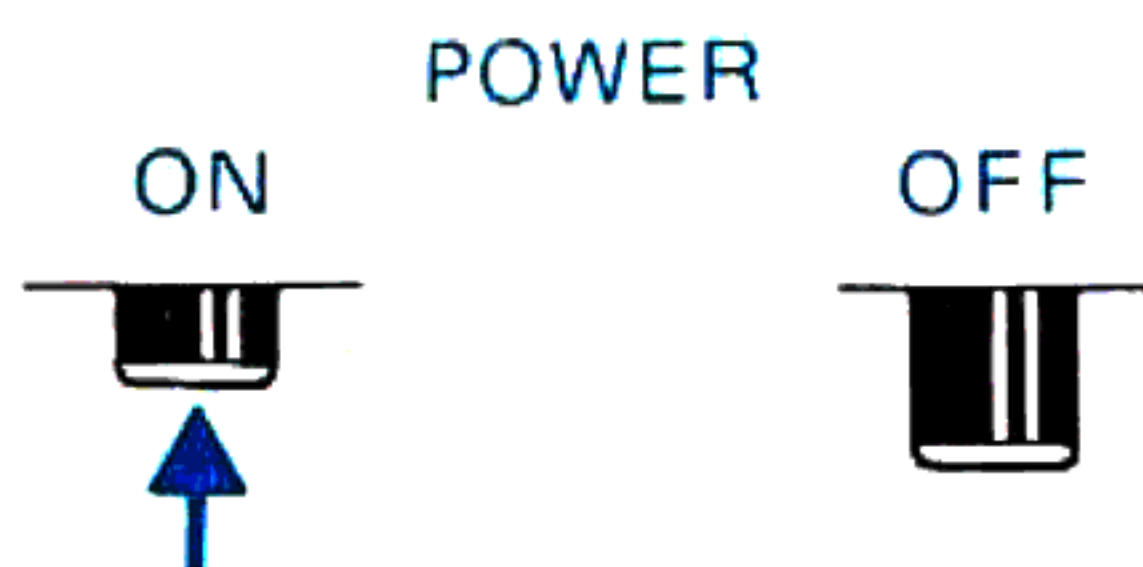
5. When shipping the KH-4455 again, perform these steps in the opposite order to protect the platter base, and motor.

BASIC OPERATION

• Power Switch

Make sure that your set is correctly connected before setting the Power Switch to the ON position.

When your set is not in use the Power Switch should be set to the OFF position.



• Function Switch

Select the desired program source by turning to the corresponding position. When switching from one program to another, remember to always reduce the volume level first.

PHONO: When playing phonograph records on the record player.

TAPE: When playing cassette tapes in the cassette tape deck section.

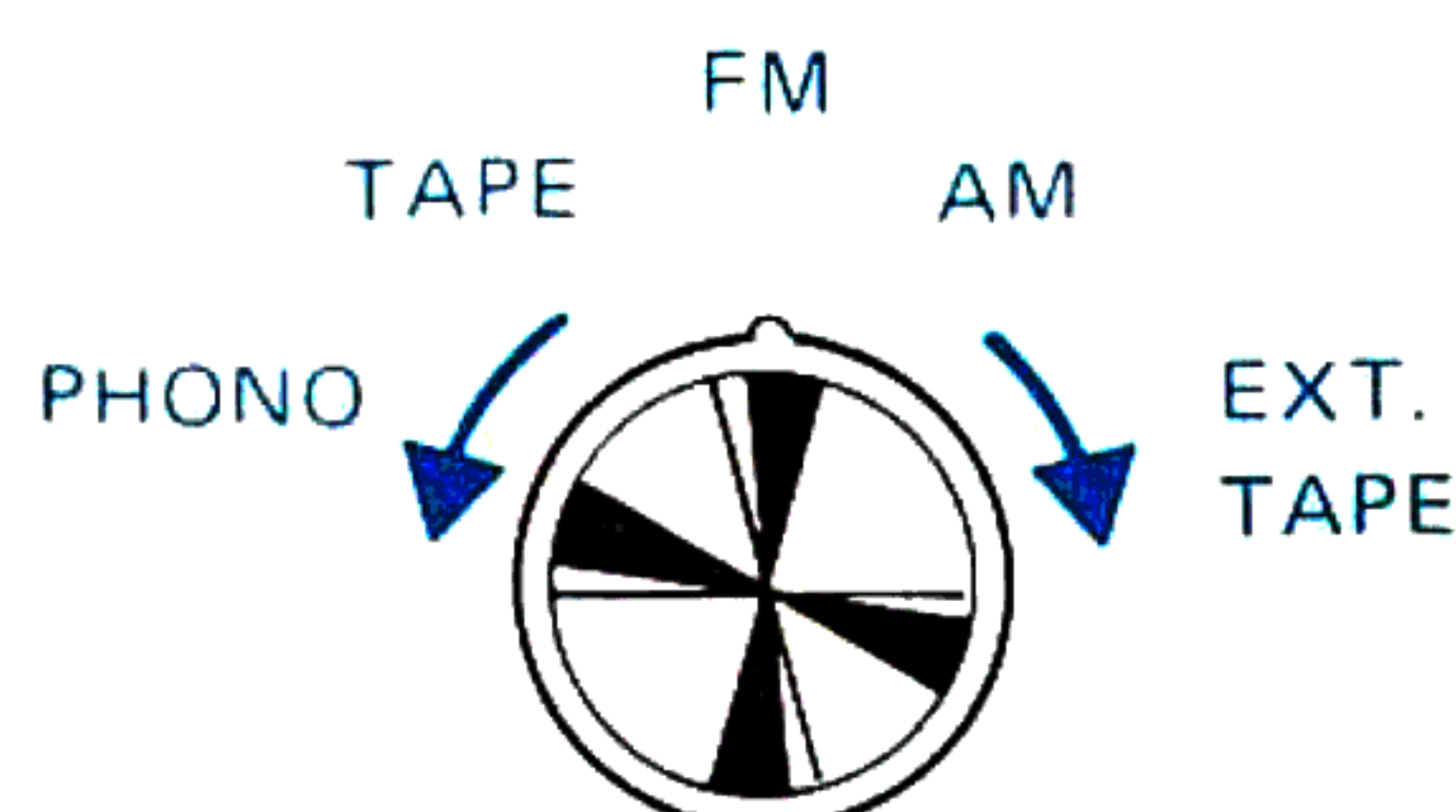
FM: When listening to FM broadcasting.

AM: When listening to MW, SW1, SW2 broadcasting.

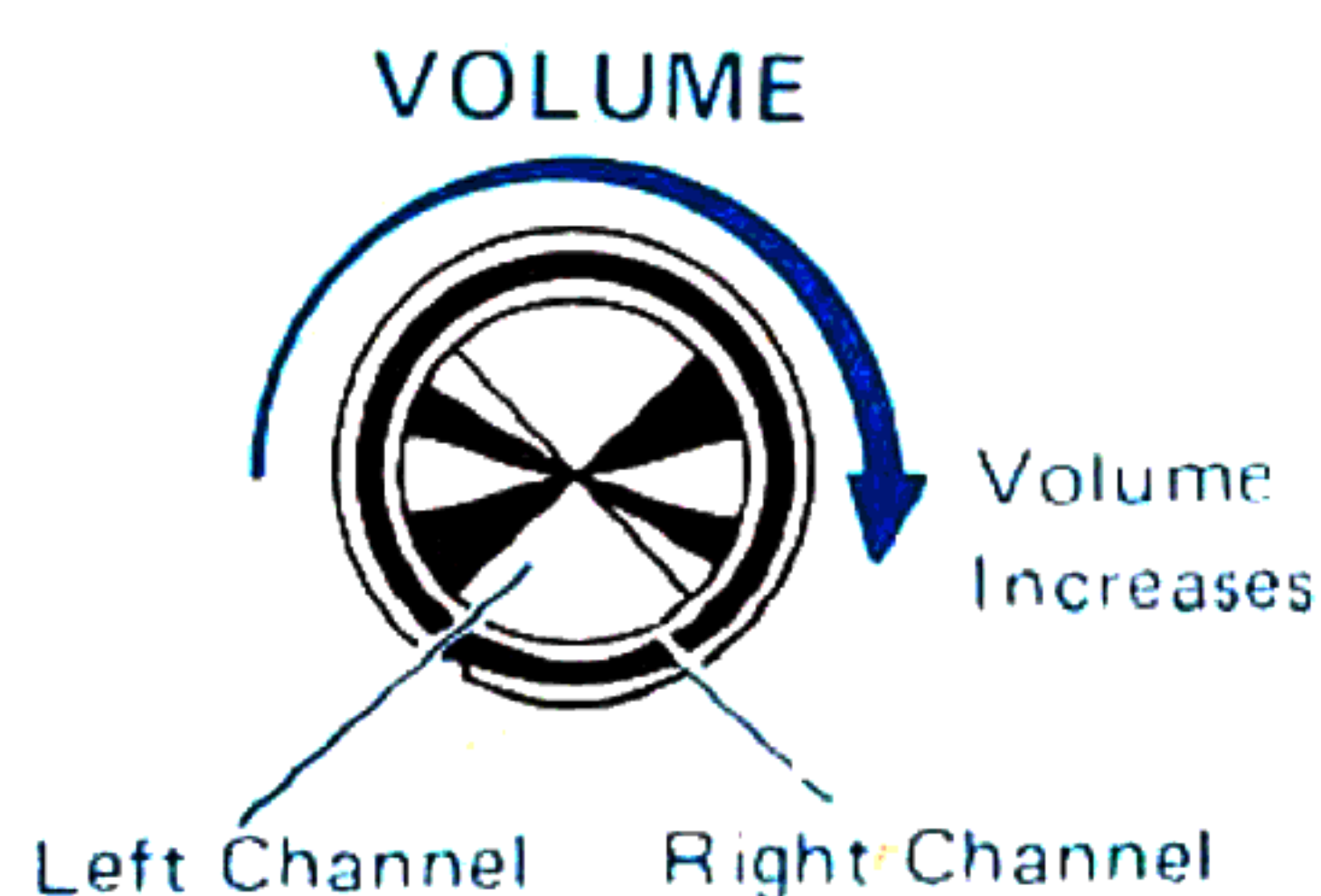
EXT.TAPE: When playing tapes in a remotely located 8 track cartridge tape player or tape deck connected to the rear TAPE MONITOR input terminals.

This position is also used to monitor the program being recorded in the external tape deck via the REC OUT terminals.

FUNCTION

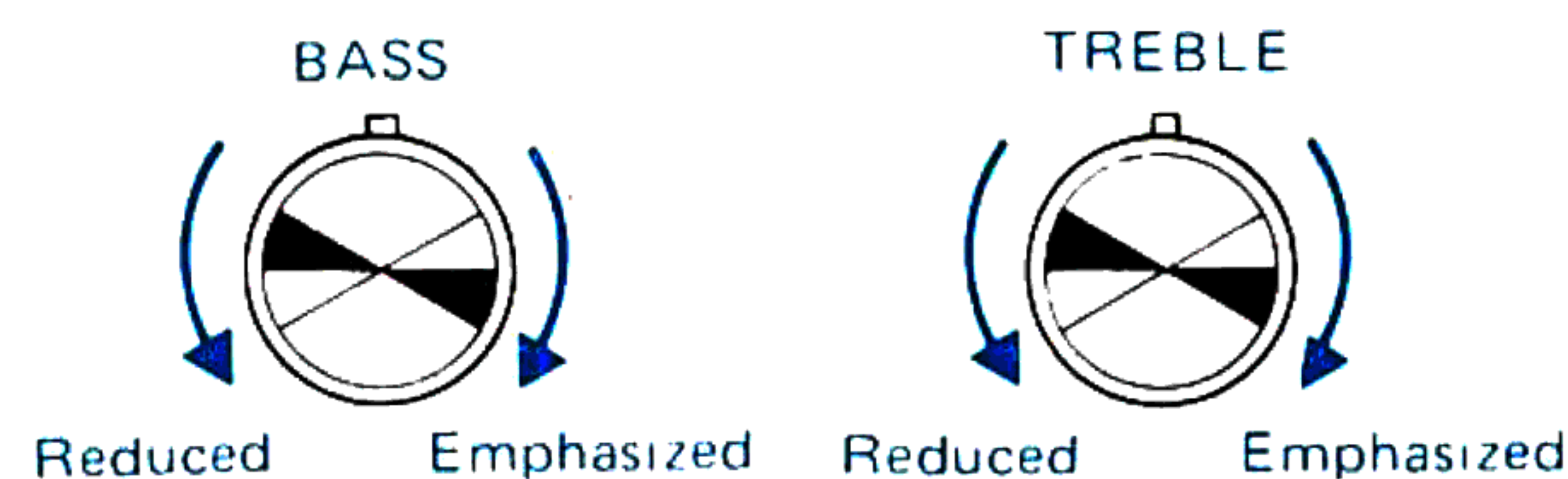


• Volume Control



- When these Controls are turned both the right and left channels are adjusted simultaneously. If you wish to adjust one channel only, hold one knob still, and turn the other.

• Tone Control

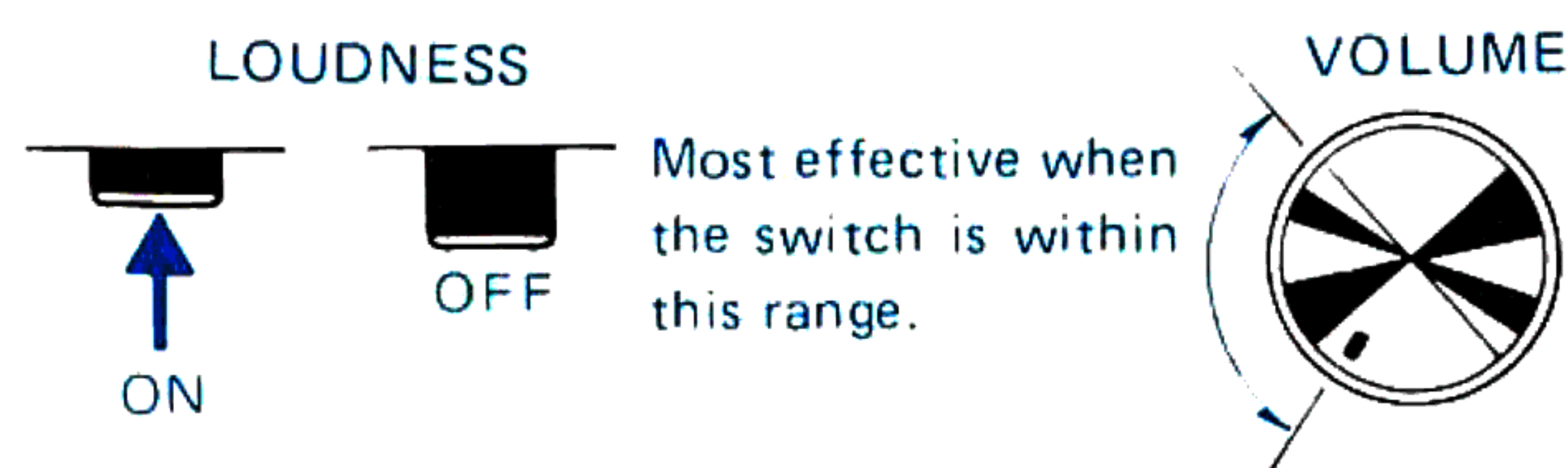


• Loudness Switch

Set this switch to the ON position when listening at low sound level. Treble and Bass will be emphasized.

The human ears are somewhat less sensitive to certain sounds at lower listening level, than at higher.

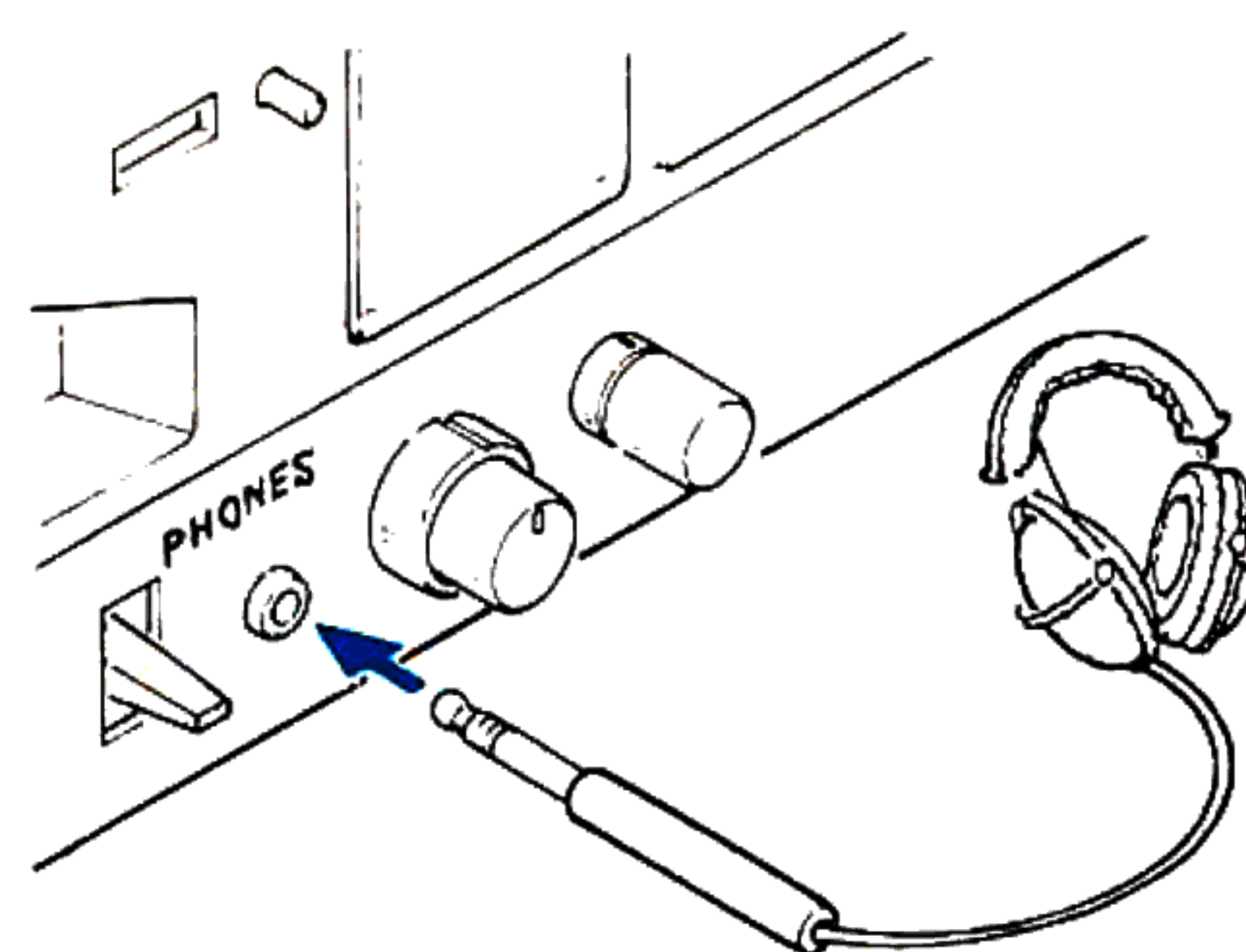
To overcome this and make low level listening just as much pleasure a Loudness Switch was provided for the purpose of compensation.



• Headphone Jack

When connecting an 8 ohms impedance headphone to this jack the speakers will be automatically silenced.

- Do not plug a microphone into this jack by mistake. The microphone may get damaged as a result.



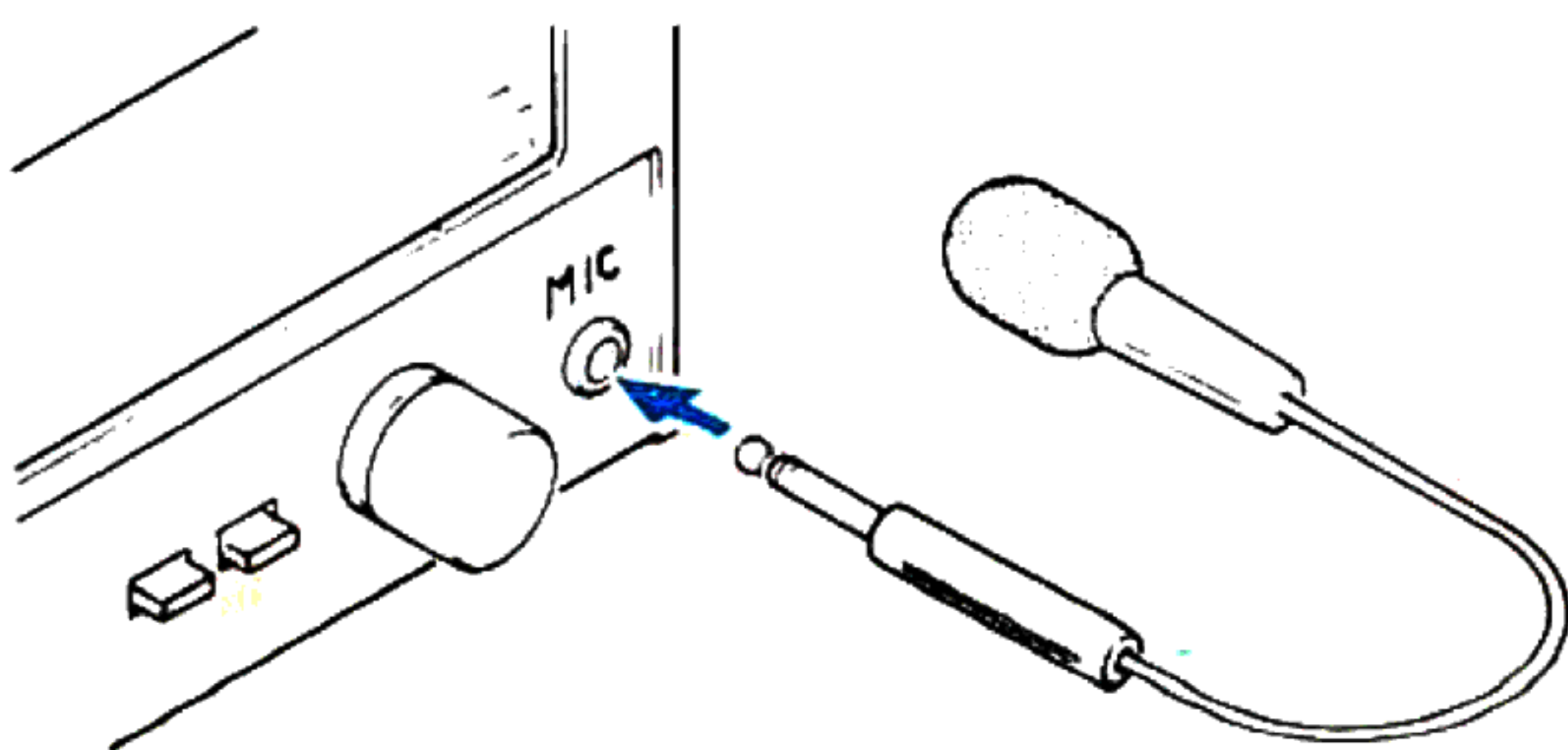
● Microphone Jack

A microphone may be used for amplifying or recording your voice.

When a microphone is plugged into this jack, only the input to the microphone comes out of the speakers regardless of whenever the Function Switch is.

To record your voice as well, insert a cassette tape, depress the Record Lever and adjust for optimum recording level by monitoring the Record Level Meter.

- Use a microphone having a standard plug and an impedance of less than 10,000 ohms.
- If volume is raised excessively, or if the microphone is brought too close to the speakers, howling occurs. To prevent howling, either decrease the volume, or keep the microphone away from the speakers.
- Microphone sounds are monaural so the same sounds will be audible through the right and left speakers as well.

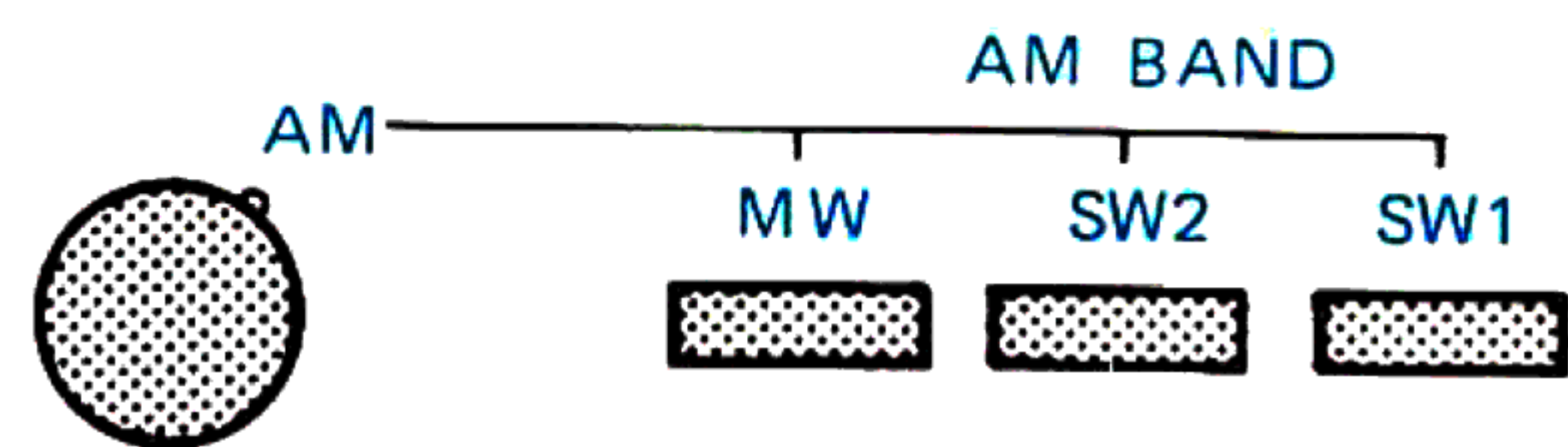


LISTENING TO TUNER

● Listening to AM Broadcast

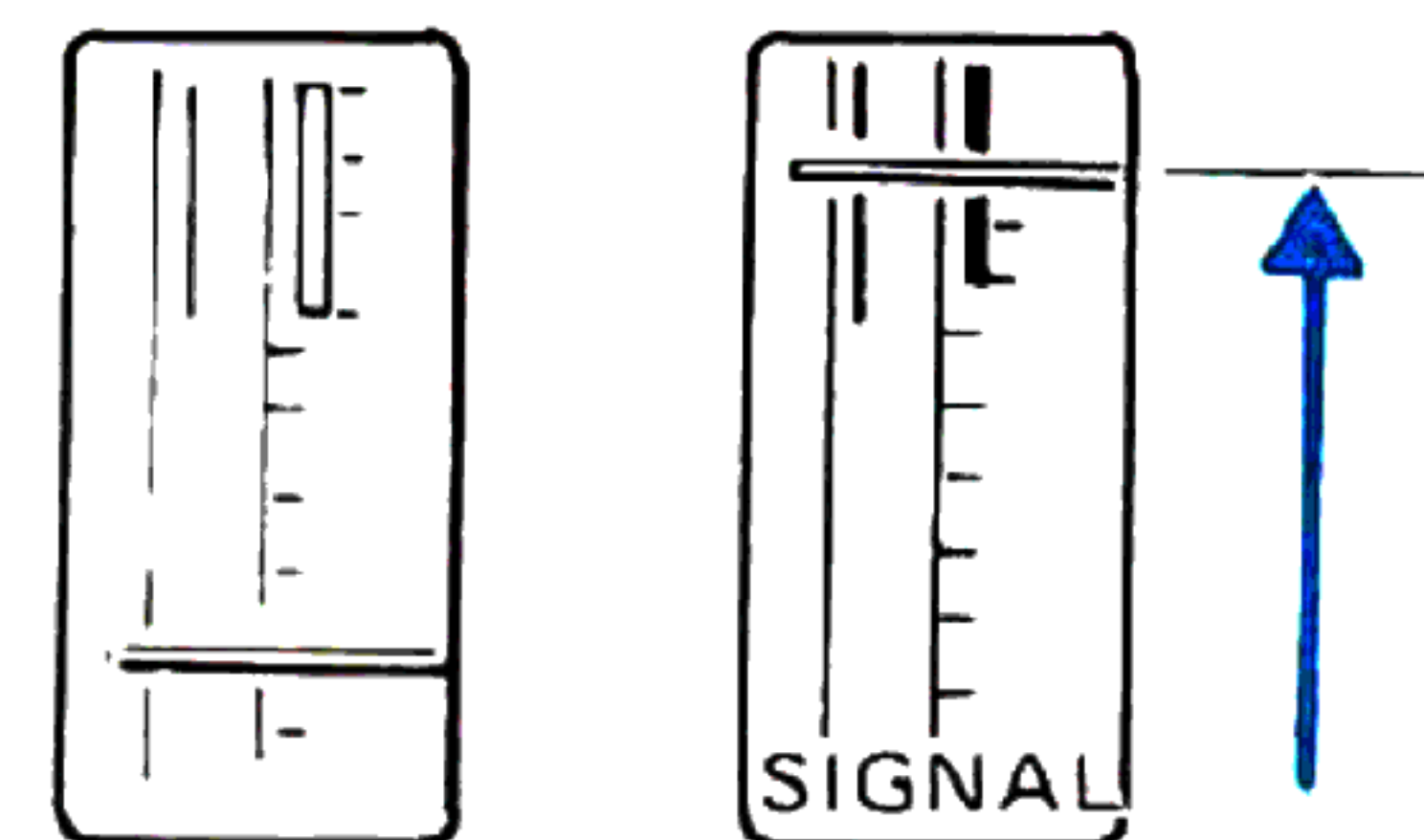
1. Set the Power Switch to ON position.
2. Set the Function Switch to AM, and push the AM Band Switch to the desired frequency (MW, SW1, SW2).

FUNCTION



- Even if the Function Switch is turned to AM, broadcasts cannot be received unless the AM Band Switch is depressed.
- Do not depress more than one AM Band Switch at the same time.

3. Turn the Tuning Knob to the desired radio station. Optimum reception (best listening) is shown by maximum deflection on the combination Rch. REC. Level/Tuning Meter. (During tape recording, this meter operates as the Record Level Meter for the right channel.)



L-LEVEL-R

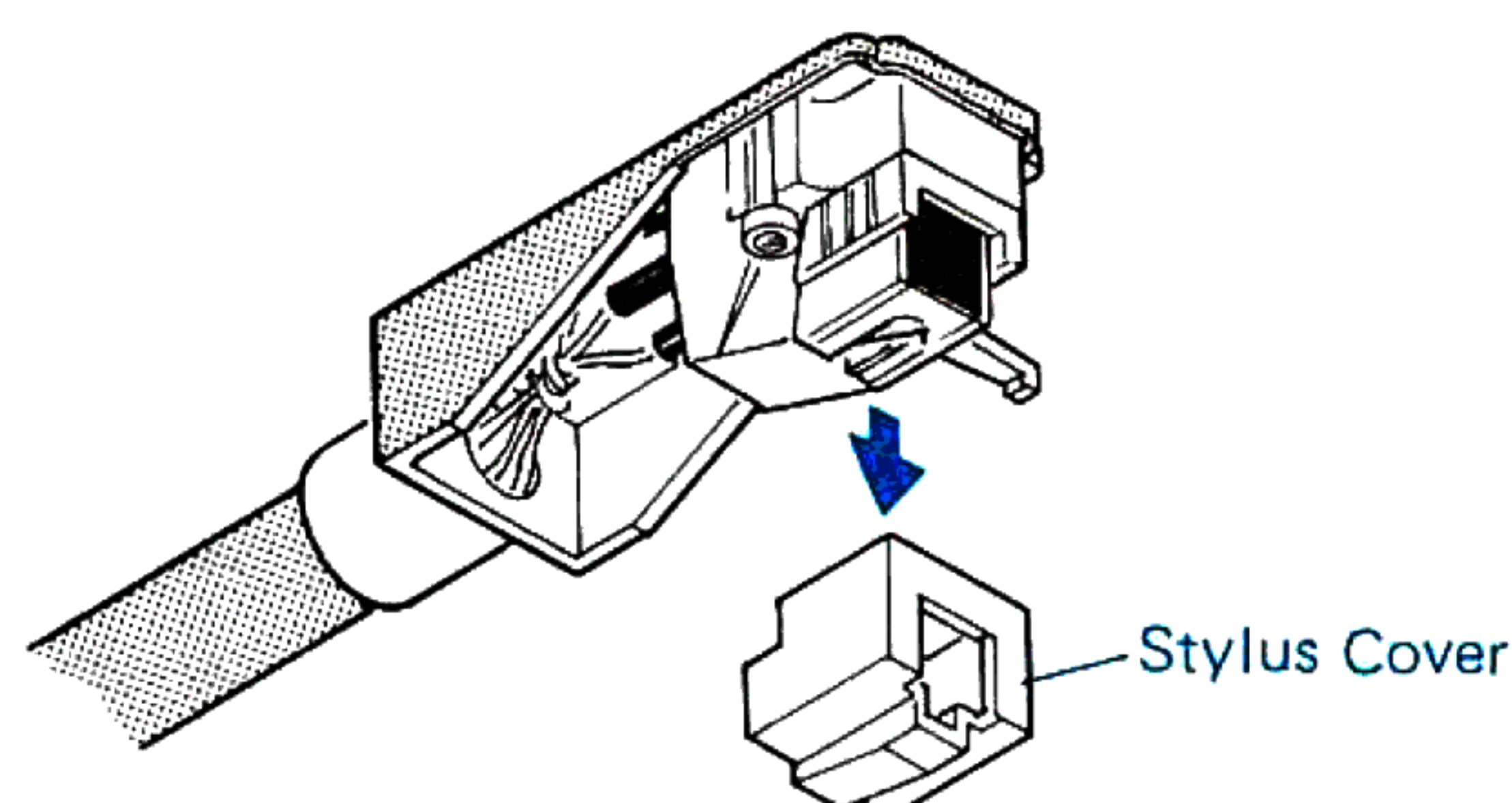
4. Adjust volume and tonal controls (Bass and Treble) for the desired level.

● Listening to FM Broadcast

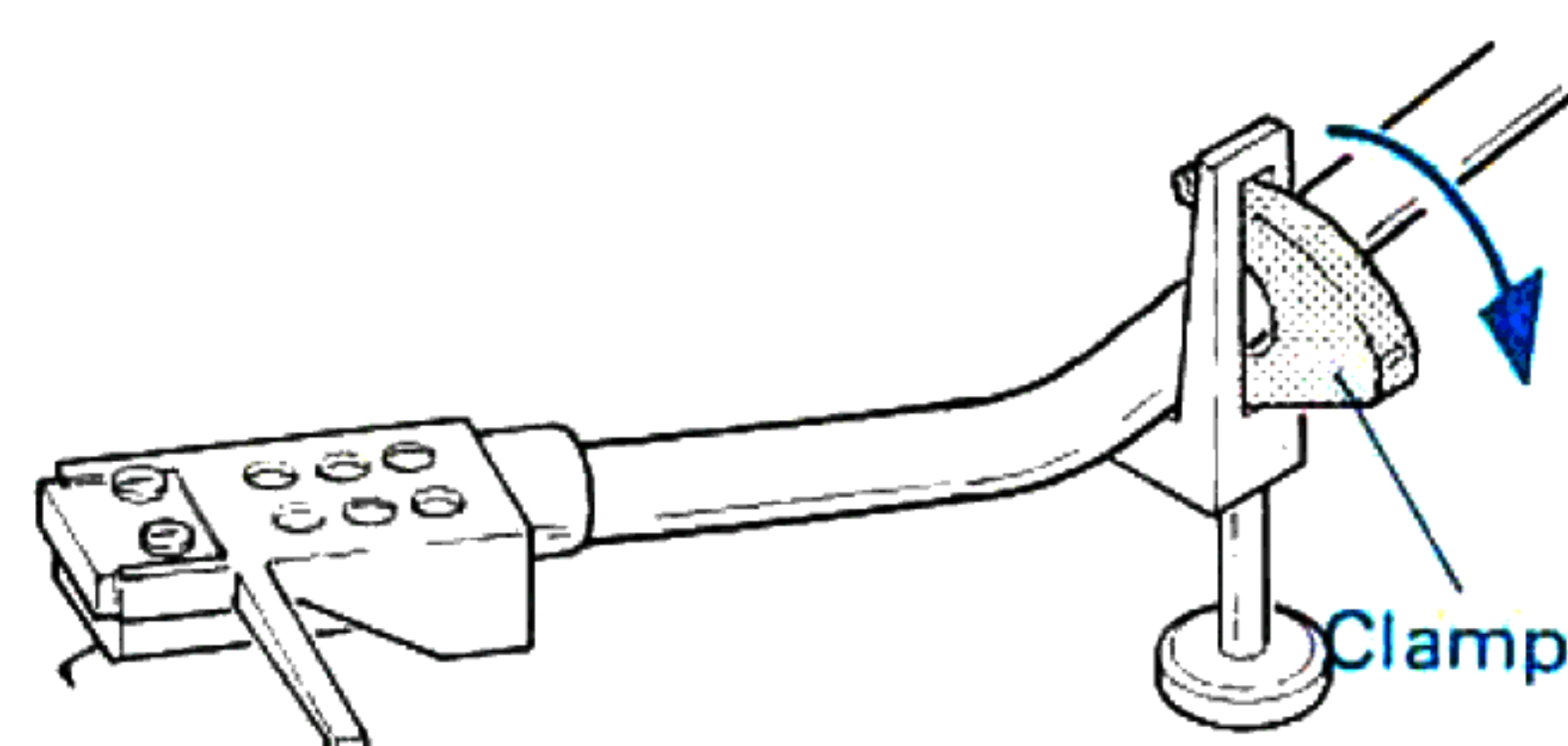
1. Set the Power Switch to ON position.
2. Turn the Function Switch to FM.
3. Turn the Tuning Knob to the desired radio station. Optimum reception (best listening) is shown by maximum deflection on the combination Rch. REC. Level/Tuning Meter. (During tape recording, this meter operates as the Record Level Meter for the right channel.)
4. Adjust volume and tonal controls (Bass and Treble) for the desired level.

LISTENING TO RECORDS

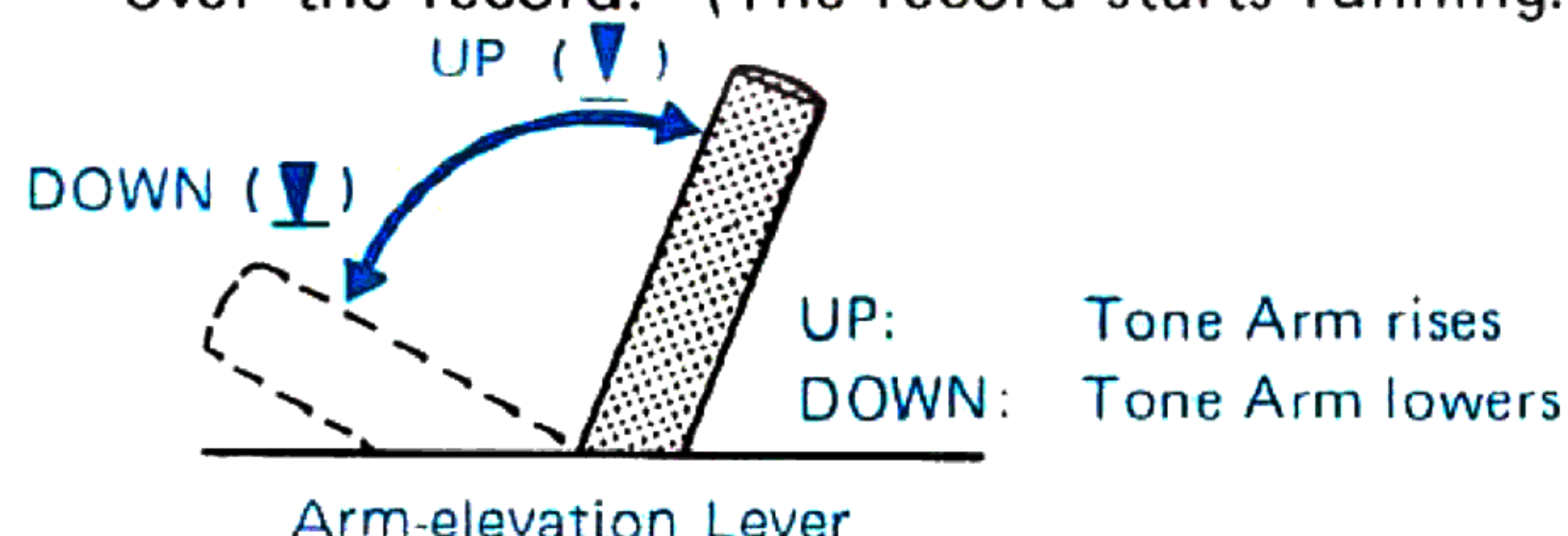
1. Set the Power Switch to ON position.
2. Set the Function Switch to PHONO.
3. Place your record on the Platter, and remove the stylus cover from the cartridge.



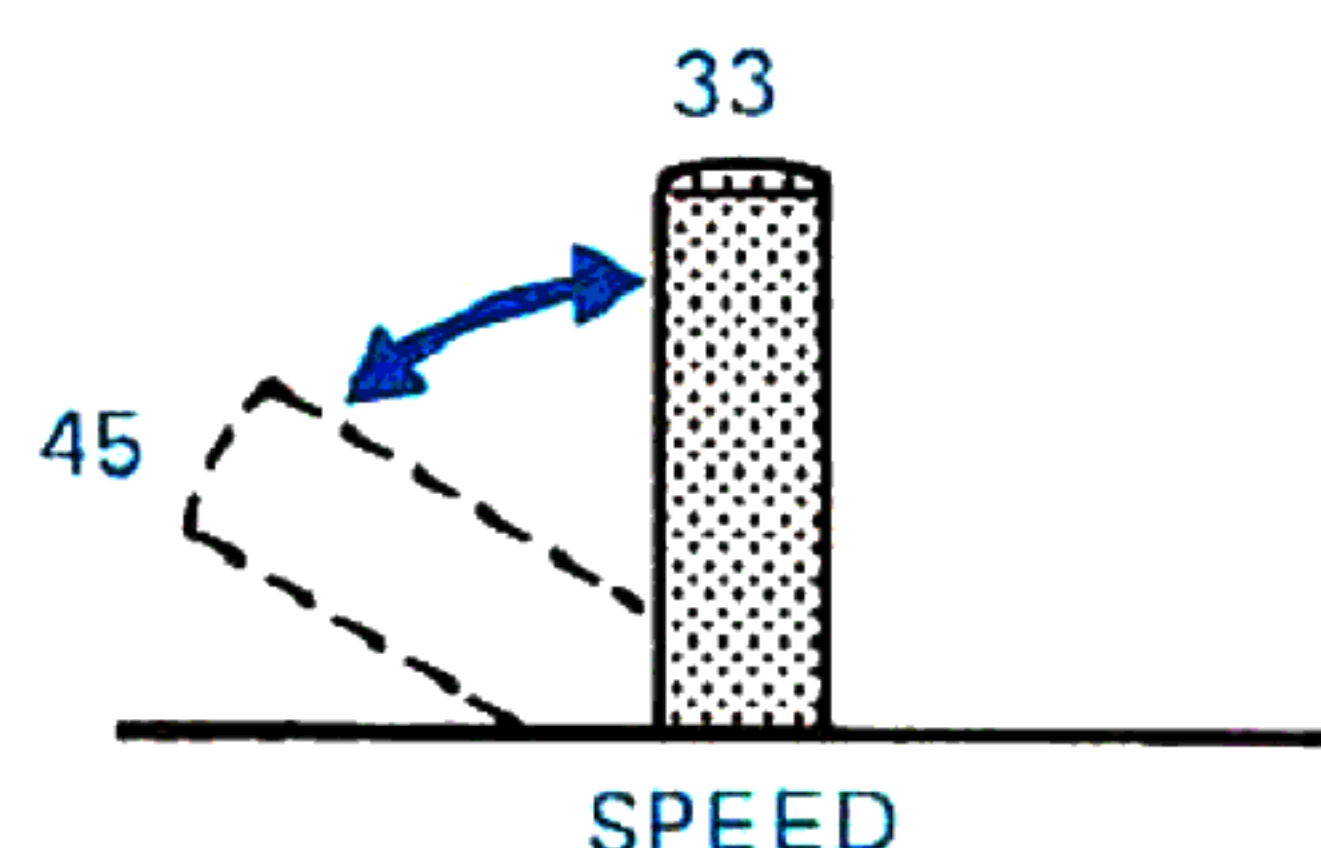
4. Take the Arm Rest clamp off of the Tone Arm.



5. Check that the Arm-elevation Lever is up (▼), and bring the Tone Arm to the desired point over the record. (The record starts running.)



6. Set the Speed Selector Lever to the position corresponding to the r.p.m. of your record.

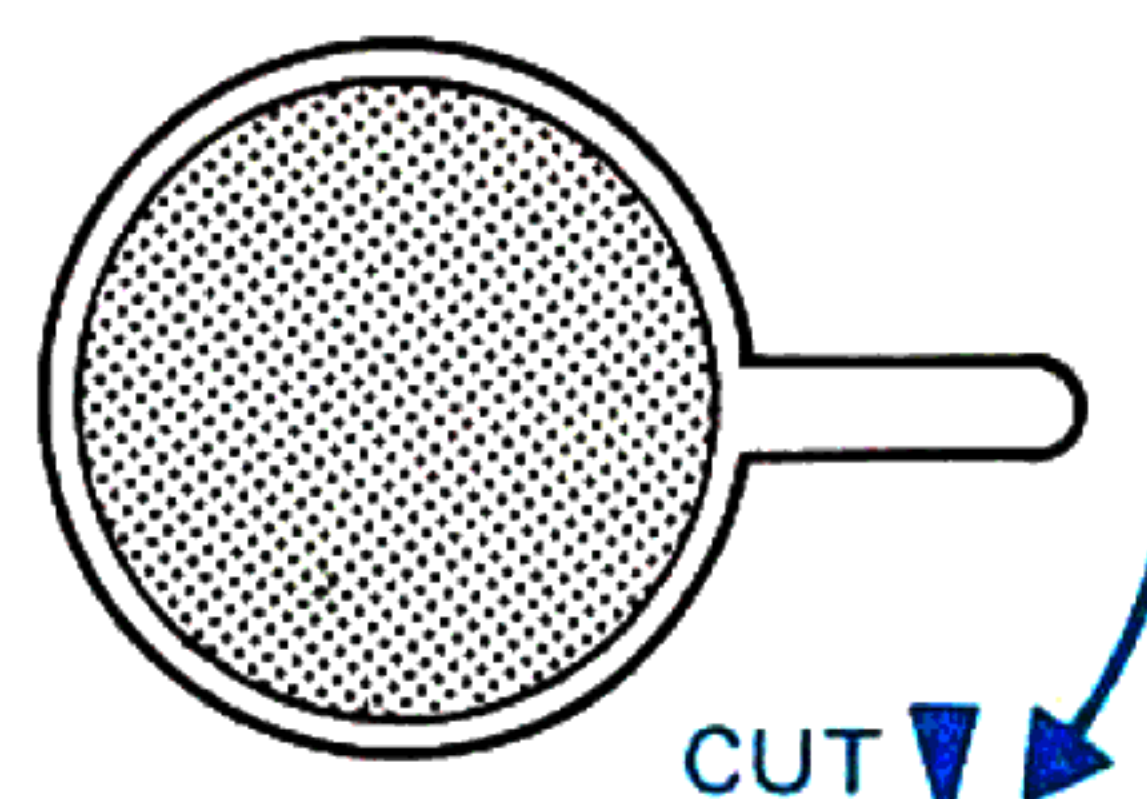


7. Set the Arm-elevation Lever down (▼). The Tone Arm slowly descends, and the record begins to play.
8. Adjust volume and tonal (Bass and Treble) controls for the desired level.
9. When the record has been played back, the auto return mechanism returns the Tone Arm to the Arm Rest. The player is switched off simultaneously. When not using the player put the stylus cover on to protect the stylus.

- Do not change Speed Selector Lever during playing, the stylus will jump.

• Cut Lever

Pull the Cut Lever when stopping the record before it comes to the end. The auto return mechanism brings the Tone Arm back to the Arm Rest, and automatically switches off the player.



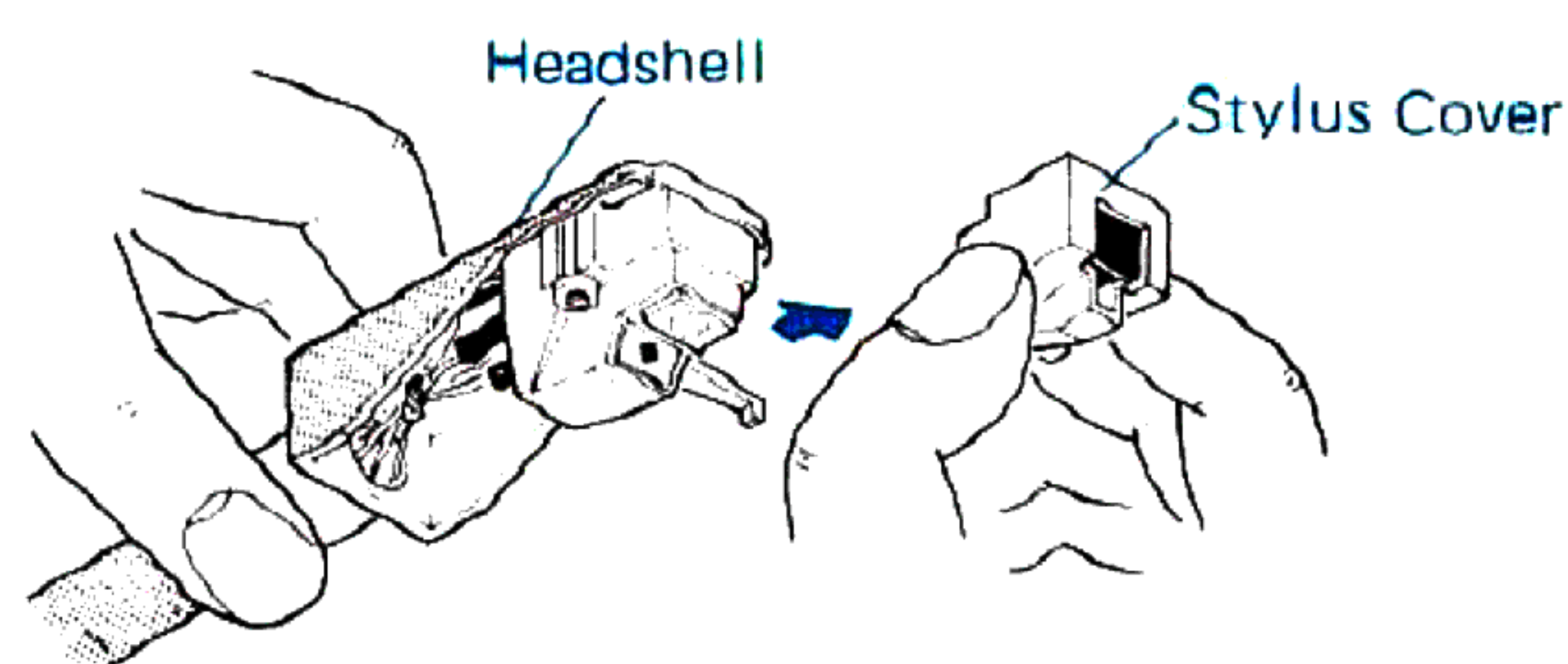
• Stylus Life

The stylus PN-K85 is diamond stylus with a life of about 300 ~ 400 hours. If the stylus is used beyond its normal life, the records may be damaged, and the sounds distorted. Early stylus replacement is recommended.

- Specify PN-K85 when you buy replacement styluses from your Pioneer store. If replacement styluses of other makes are used, Pioneer cannot guarantee the performance of your stereo set.

• Stylus Replacement Procedure

1. Set the Power Switch to OFF position.
2. Hold the Headshell as shown, and slowly pull out the stylus cover with the stylus.



3. Insert a replacement stylus in the reverse order of the above, exercising care not to damage the stylus.

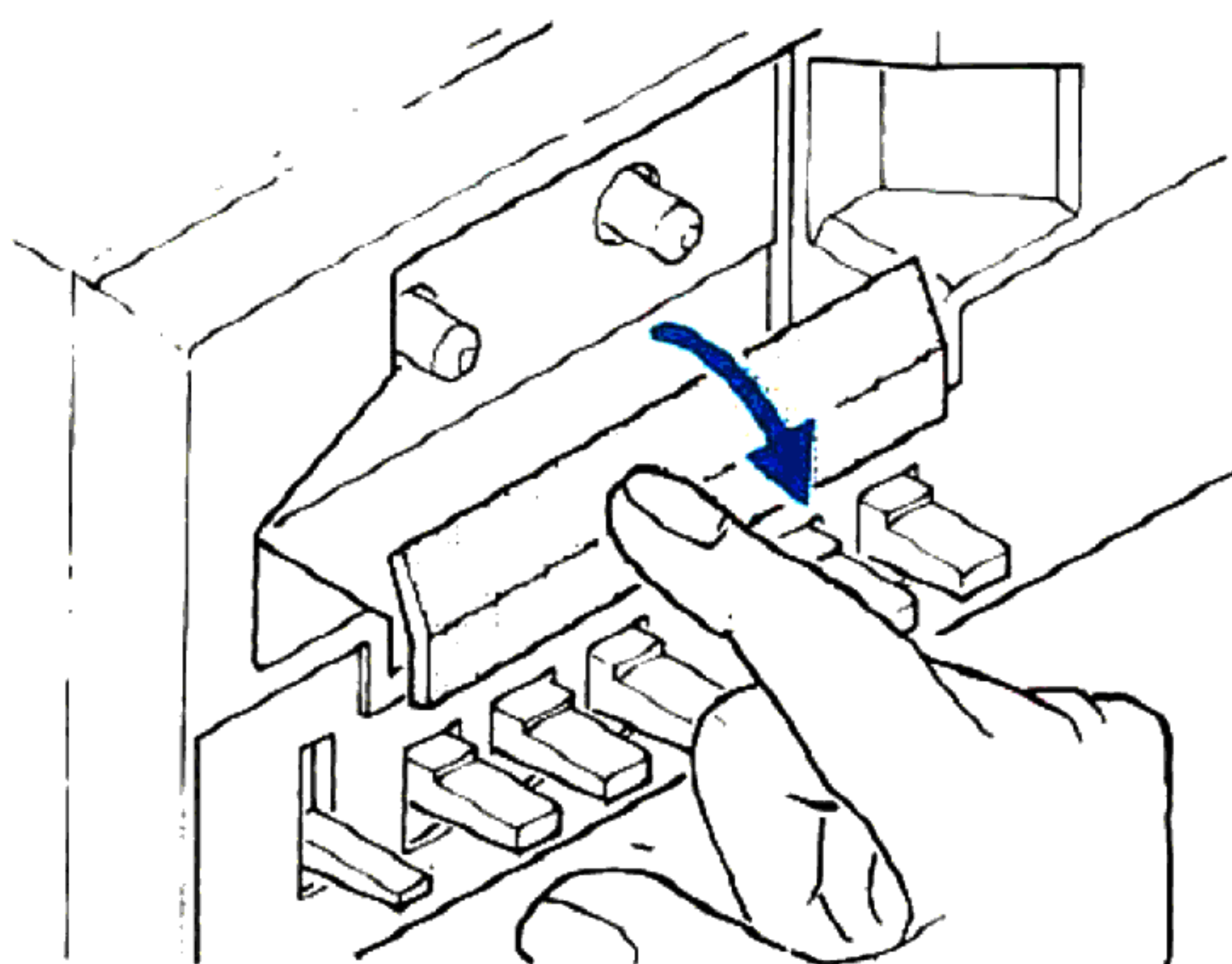
● Precautions in Using the Record Player

1. When not using the record player, be sure to clamp the Tone Arm to the Arm Rest.
(Check that the Tone Arm is fully lowered. If not, set the Arm-elevation Lever to the down position.)
2. Do not touch the Tone Arm when it is in motion, or turn the Platter by hand when the Tone Arm is clamped by the Arm Rest.
3. Do not hold the Platter by hand when it is in motion.
4. If the stylus is covered with dust, sound quality is adversely affected. Clean the stylus with a soft brush or the like.
5. Do not set the Power Switch to OFF when the stylus is on the record.
6. Keep the Dust Cover, closed to keep dust and foreign particles out during play.

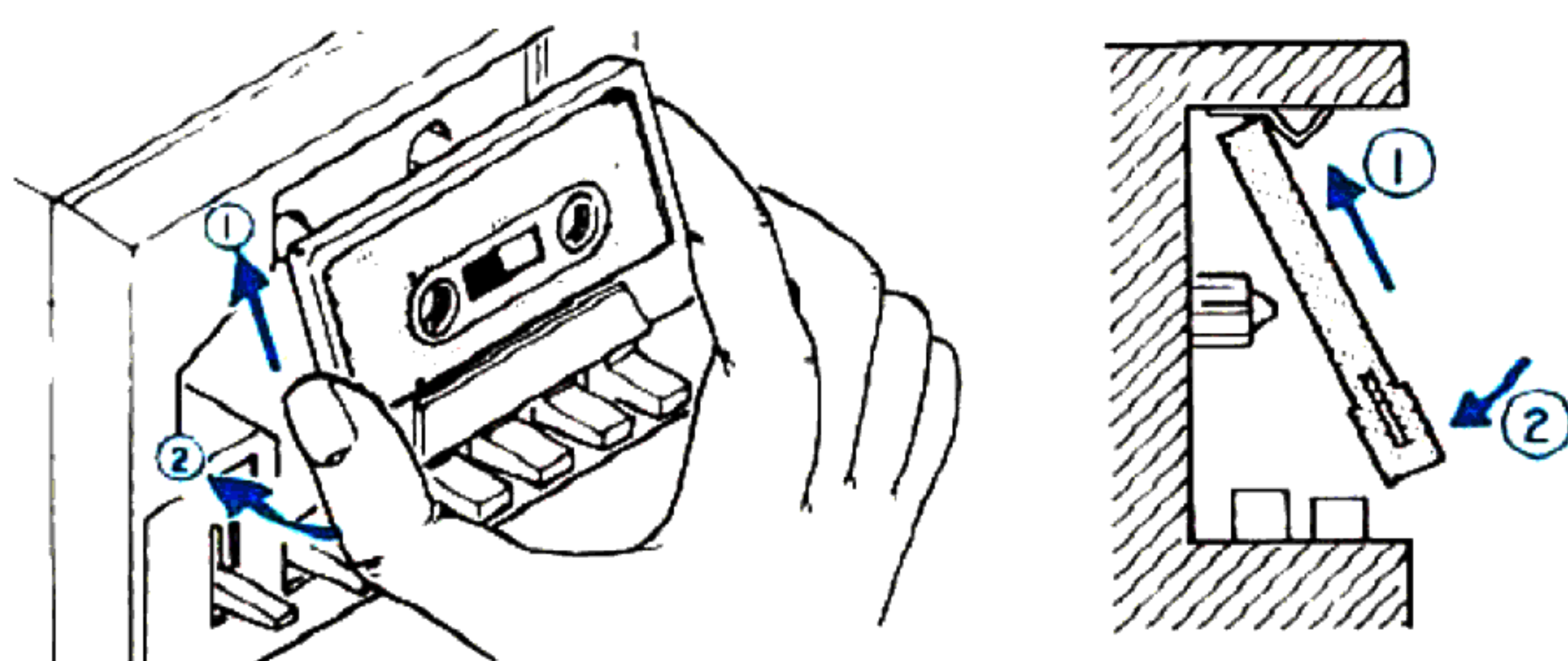
CASSETTE RECORDER OPERATION

● Tape Insertion

1. Gently swing the Head Protector forward and down.



2. With the desired side (side A or B) facing outwards, carefully place the cassette tape into the recorder until it snugly clicks into position.



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- It is important that the tape locks securely into position however don't be forceful since this may also result in damage in some parts of the mechanism.
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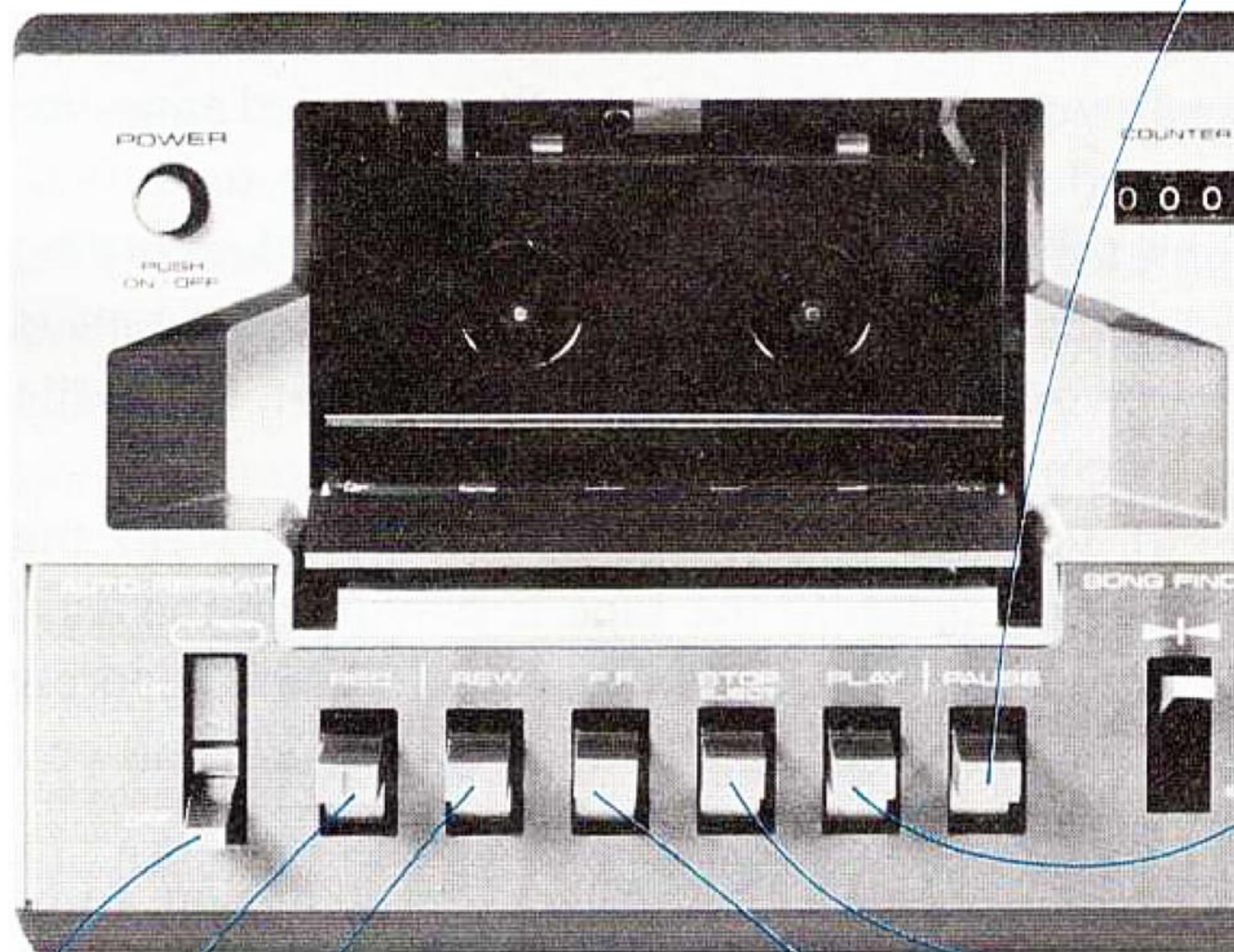
● Tape Removal

1. If the Auto-repeat Switch is ON, it must first be turned OFF.
2. If the tape is still in playback mode, depress the Stop/Eject Lever in order to stop operation during playback mode.
3. Depress the Stop/Eject Lever again to release the cassette tape from the tape recorder. The tape may then be lifted out.

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- When the cassette deck is not being used, be sure to close the Head Protector to protect the tape mechanism against dust and possible damage.
-

● If There is a Power Failure During Playback or Recording Operations

Depress the Pause Lever. This will prevent damage to the cassette recorder. To remove the cassette tape, after depressing the Pause Lever depress the Stop/Eject Lever to put the deck in the stop position, and depress a second time to eject the tape.



Auto-repeat
Switch

● Rewind Lever

When this lever is depressed, the tape rewinds at high speed. To stop a rewinding tape, depress the Stop/Eject Lever.

● Record Lever

When this lever is depressed, the Play Lever is automatically locked to start recording. The Record Indicator (LED) lights at the same time. Adjust the recording level with the Record Level Control. (See the paragraph for the Record Level Control.)

Note: Always make sure that the Record Lever is fully pressed into the lock position, otherwise the recording mechanism may fail to engage properly.

- Monitor sound can be heard from the speakers while the tape is running forward at fast speed or rewinding.

● Pause Lever

Depress the Pause Lever for temporarily halting the tape being recorded or played. When the Lever is depressed again, the tape starts running again.

For welltimed recording, depress the Pause Lever first and then the Record Lever, and depress the Pause Lever again whenever you wish to record.

If the tape is running in the fast forward mode or rewind mode, it will not stop even if the Pause Lever is depressed.

● Play Lever

When this lever is depressed, the tape is fed to the right reel at the normal speed.

● Stop/Eject Lever

When this lever is depressed the previously selected function will disengage from the locked mode and the tape motion stops.

When pressed a second time, the cassette tape is disengaged from the tape recorder.

Caution: During auto-repeat operation, when the Auto-repeat Switch is "ON" the Stop/Eject Lever will no longer operate as designated. To stop the recorder, first return the Auto-repeat Switch to "OFF" mode and then apply the Stop/Eject Lever to stop the recorder.

● Fast Forward Lever

When this lever is depressed, the tape runs at high speed. To stop the tape depress the Stop/Eject Lever.

● Full Mode Auto Stop

When the tape is fully wound on the left or right reels, the originally selected function will automatically be disengaged in a matter of a few seconds. This means that even if you forget to stop the tape recorder during play, fast forward, or rewind modes the unit will completely disengage itself from the previously selected functions and will return all functions to neutral mode.

LISTENING TO TAPES

1. Set the Power Switch to ON position.
2. Swing the Head Protector forward and down. With the desired side facing outwards, insert the tape into the cassette recorder.
3. Set the Function Switch to TAPE.
4. Depress the Play Lever.
5. Adjust volume and tonal controls (Bass and Treble) for the desired level.
6. To temporarily halt the tape being played, depress the Pause Lever. To stop the tape, depress the Stop/Eject Lever.

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- The Left and Right Level Meters indicate tape output level during tape play.
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AUTO-REPEAT SYSTEM

When the Auto-repeat Switch is set at the "ON" position the tape will continually play, rewind, play rewind and so on. During this mode of operation the Stop/Eject Lever will not override the Auto-repeat Switch function. Therefore the only way to stop the cassette recorder is by switching the Auto-repeat Switch to the "OFF" position and then depressing the Stop/Eject Lever.

1. Set the tape just as if you would listen to the tape and depress the Play Lever.
2. Set Auto-repeat Switch to ON.
3. When the tape comes to the end, the tape will be rewound at high speed and the Play Lever will be depressed and lock automatically. Following these steps the playing cooperation begins.
4. Set Auto-repeat Switch to OFF to cancel auto-repeat operation. Stop/Eject Lever will not cancel the auto-repeat operation when Auto-repeat Switch is ON.

AUTO-REPEAT



Other functions of auto-repeat system are as follows.

- If you want to listen to the tape from the beginning which has already started playing, set Auto-repeat Switch to ON. The tape is rewound and you can listen to it from the beginning.
- If you want to listen to the recorded tape immediately after the completion of the recording, set the Auto-repeat Switch to ON and recording mode. At the end of the recording, the tape is rewound and you can listen to it from the beginning.
- If you want to listen to the tape from the beginning while the tape is playing on the way, set Auto-repeat Switch to ON and depress Stop/Eject Lever. The tape is rewound and you can listen to it from the beginning.
- If you depress Stop/Eject Lever during auto-repeat mode of operation while rewinding, the unit will shift to play mode automatically from that point onward.

-
- Note that the Auto-repeat Switch cannot be turned ON if there is no cassette tape in the cassette recorder.
 - To stop the tape or cancel auto-repeat operation, set the Auto-repeat Switch to OFF position. Depress Stop/Eject Lever to stop the particular mode of operation. (eg: play or rewind modes)
- Note: While the Auto-repeat Switch is ON the Stop/Eject Lever will not cancel the already functioning auto-repeat operation.
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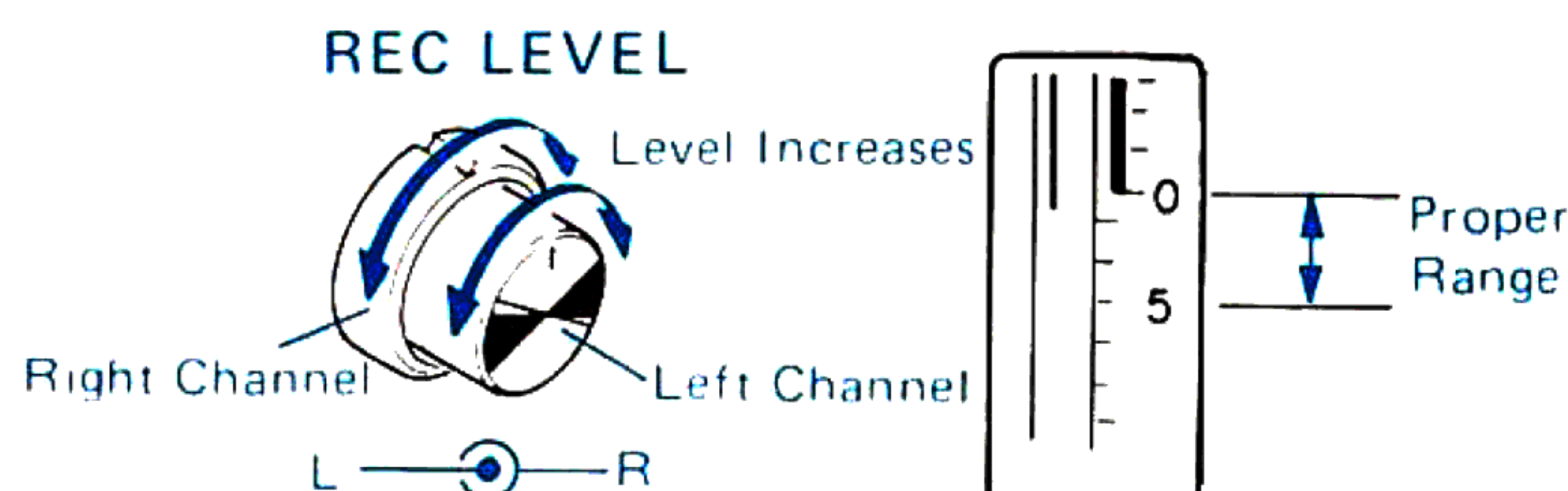
BEFORE RECORDING

• Tape Counter

The Tape Counter indicates relative tape position. If you take notes of the Tape Counter readings during recording, you will be able to easily locate the points at which you wish to start playing the tape. To clear the Tape Counter "000", push the Reset Button.

• Record Level Control

To adjust the record level, a concentric rotary Record Level Control has been provided to set the desired record level independently for left and right channels. The smaller rotary control is for the left channel while the larger rotary control is for the right channel level setting. To increase recording level turn control clockwise, to reduce record level turn control counterclockwise. To achieve the optimum recording level set recording level control such that the meter will not read in excess of the zero mark on the record level indicators, please see diagram.



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- When these controls are turned both the right and left channels are adjusted simultaneously. If you wish to adjust one channel only, hold one knob still, and turn the other.
-

RECORDING

1. Set the Power Switch to ON position.
2. Be sure to use cassette with accidental erasure tabs in place. (See page 14.) Load the cassette tape with the desired side facing outwards.
3. Set the Function Switch to the appropriate recording program source. (See page 7.)
4. Depress the Pause Lever, and the Record Lever.
5. Set the desired recording level with the Record Level Controls and depress the Pause Lever again so that the tape starts reeling.
6. To halt the recording temporarily, simply depress the Pause Lever again, but to stop the recording altogether depress the Stop/Eject Lever.

• Erasing Recorded Tapes

The old recording is erased as a new recording is made on the tape. It can be erased without making a new recording on the tape as follows.

1. Set the Power Switch to ON position, and insert the cassette tape with the side to be erased facing outwards.
2. Turn the Record Level Control fully counterclockwise.
3. Depress the Record Lever, and the old recording will be automatically erased.

SONG FINDER

Song finder automatically detects non-recorded portions between tunes or songs on the tape, and set the tape at the beginning of the desired tune. Use song finder for quick selection, and play of desired tunes, or their repeated play.

• How to Use Song Finder

1. Play your tape, and set the Song Finder Switch to ON.



2. To skip the tune you are now listening to and start the next tune, depress the Fast Forward Lever. To listen to the same tune that you are now listening to, depress the Rewind Lever. (Depress the Lever until it is completely locked.)
3. When the tape reaches a non-recorded portion (the beginning of a tune), the locked Fast Forward Lever or Rewind Lever is released. At the same time, the Play Lever is automatically locked to start playing the tape at the beginning of the desired tune.
4. To skip a few or several tunes, or rewind the tape by a few or several tunes, repeat the above-mentioned steps.

● Making Non-Recorded Portions

A Non-recorded portion of more than 4 seconds is necessary between tunes in order to ensure proper operation of the song finder with your recorded tape. When recording radio music on your tape, make non-recorded portions in the following manner.

1. Depress the Record Lever to record your tape.
2. At the end of each tune, simply change the Song Finder Switch to the EDITOR position for at least 4 seconds without making any other change.

Note that this position is non-lock, and will only remain in position while the switch is being held by the finger.

Although the program source will still be audible from the speakers, the meters will not give any reading, nor will the program source be recorded on the tape.

3. If a commercial, for example, or other undesired broadcast is going on when releasing the Song Finder Switch, depress the Pause Lever while the Song Finder Switch is being depressed to temporarily halt the tape. Depress the Pause Lever again to start recording it again.



If any of the following recorded tapes is used, the song finder may not properly operate, but this is not a failure.

1. A tape with a recorded conversation having an interrupted space of more than 4 seconds.
2. A tape having a very low continuous sound for more than 4 seconds somewhere in the recorded tune.
3. A tape with a space of less than 4 seconds between tunes.

CASSETTE TAPES

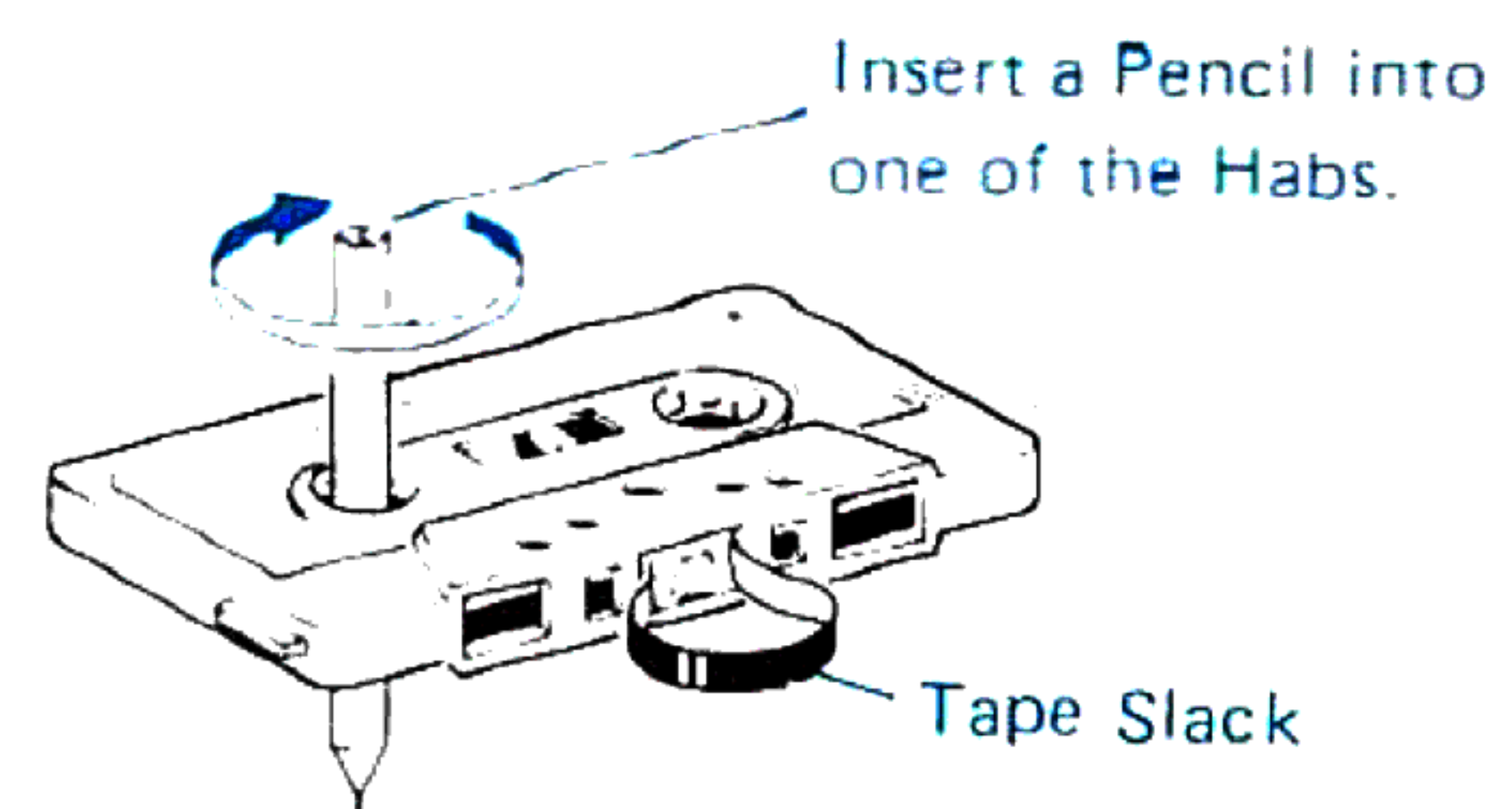
● Tapes to be Used

C-120 tapes which run for 60 minutes each sides are so thin that the tapes may stretch or become entangled. C-30 to C-90 tapes are recommended for most trouble free operation.

Type of Cassette Tape	Recording Time (Minutes)	
	One Side	Both Sides
C-30	15	30
C-60	30	60
C-90	45	90

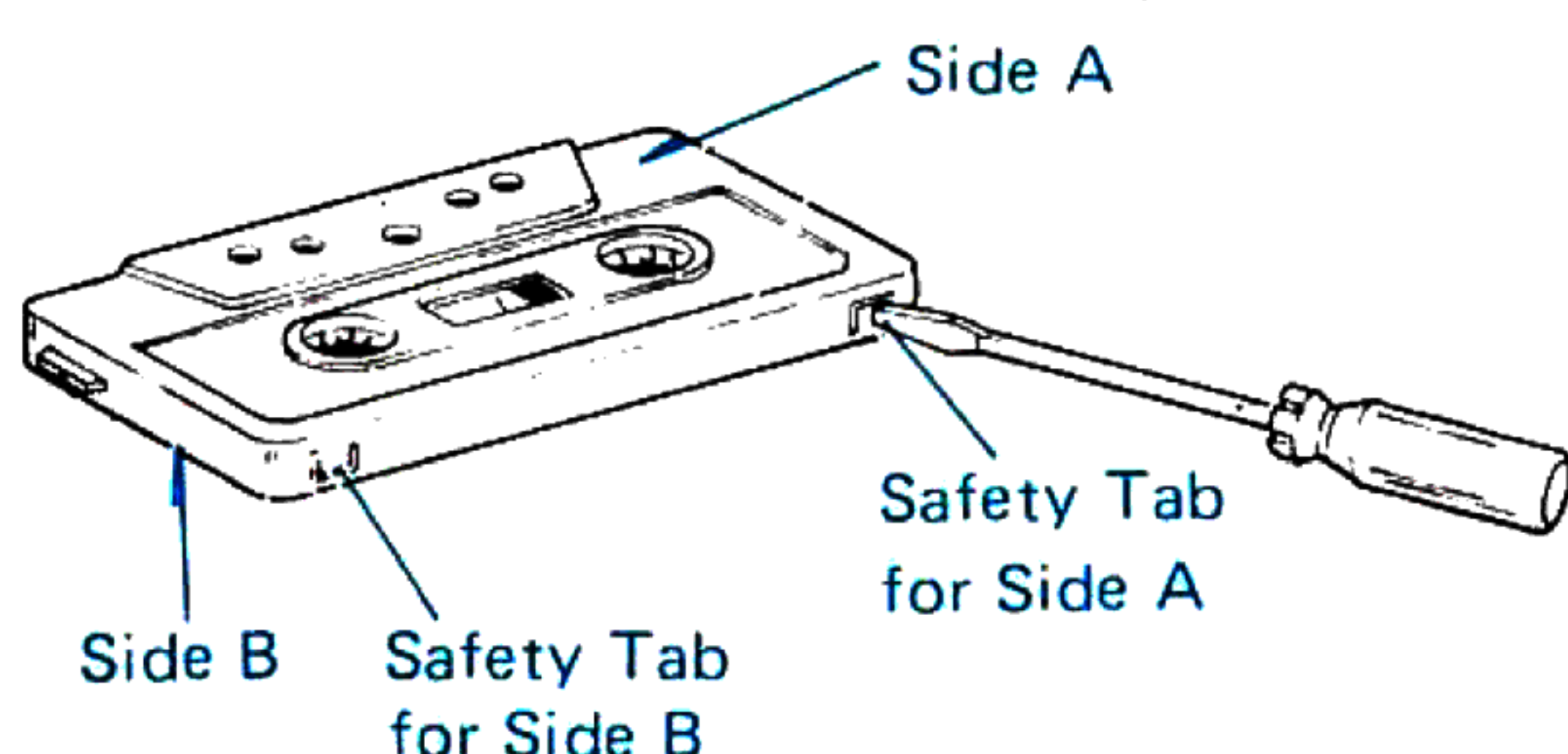
● Loose Tapes

Check your tape for looseness before inserting it. If it is loose, wind the tape as shown until it is no longer loose. If a loosely wound tape is used, the tape may get entangled and damaged.



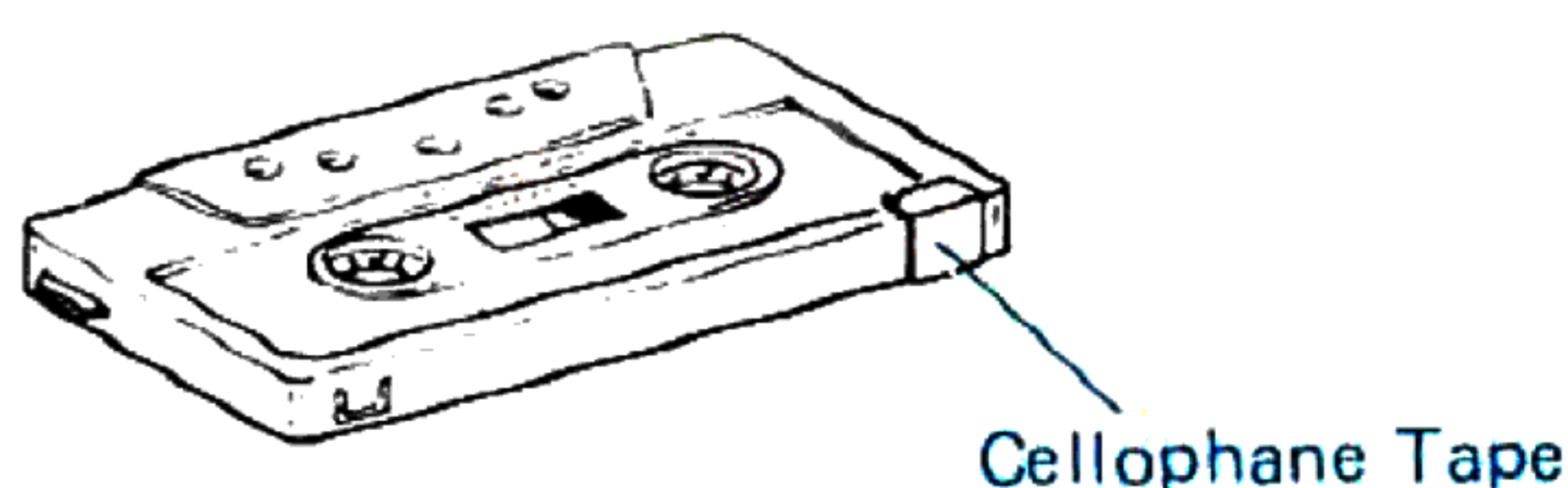
● Against Accidental Erasure of Important Recordings

Cassette tapes have safety tabs for preventing accidental erasure as shown. If the safety tabs are removed, the Record Lever cannot be depressed even if a cassette tape is inserted so that accidental erasure can be prevented. If a cassette tape is brought close to a magnet or a magnetized object, such as a speaker, the recordings may be come erased.



● Recording on Cassette Tapes without Safety Tabs

Stick a tab of cellophane tape to the point from which the safety tab was removed to close the opening, and then use the tape.

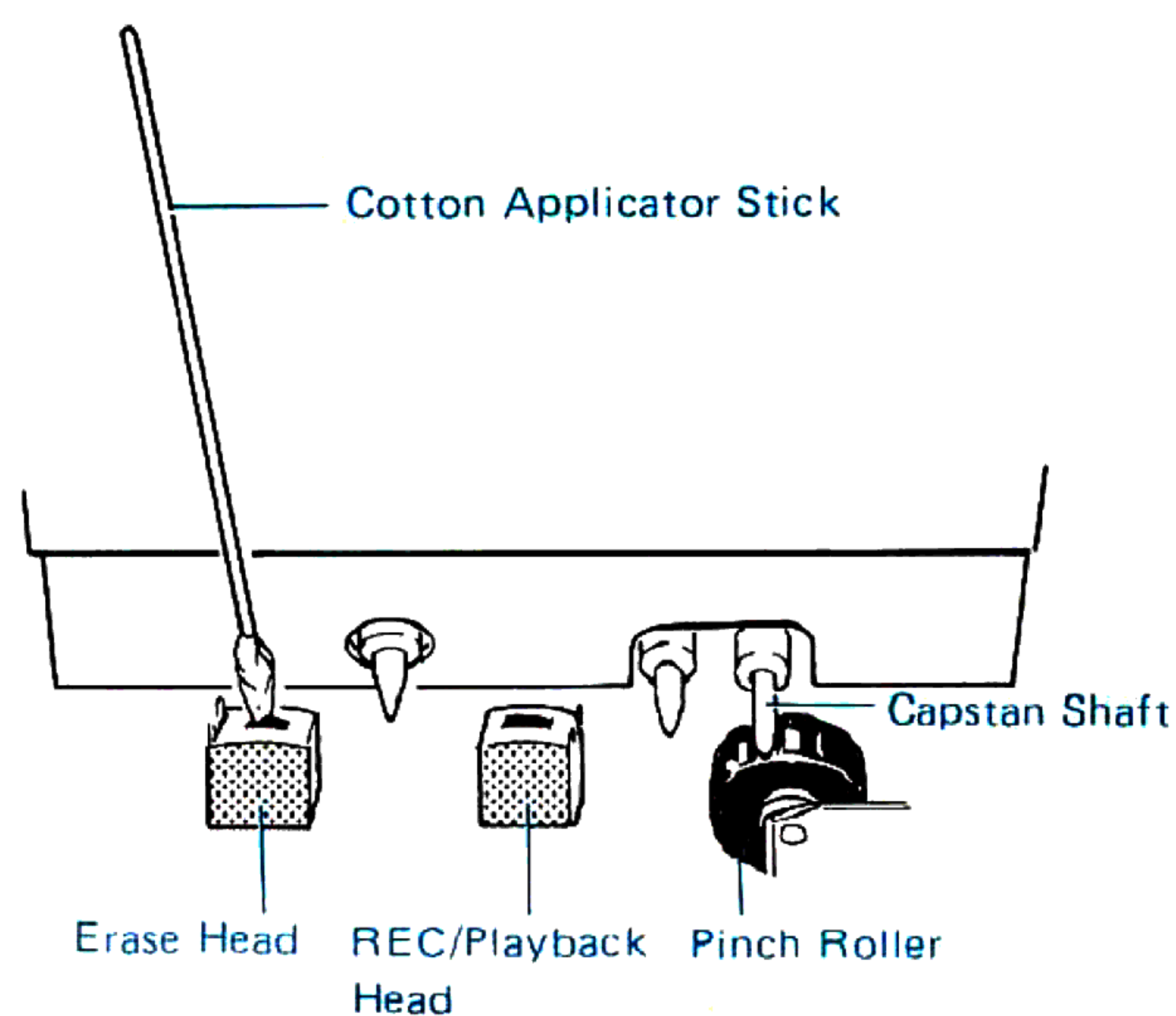


CARE AND MAINTENANCE

● Head Cleaning

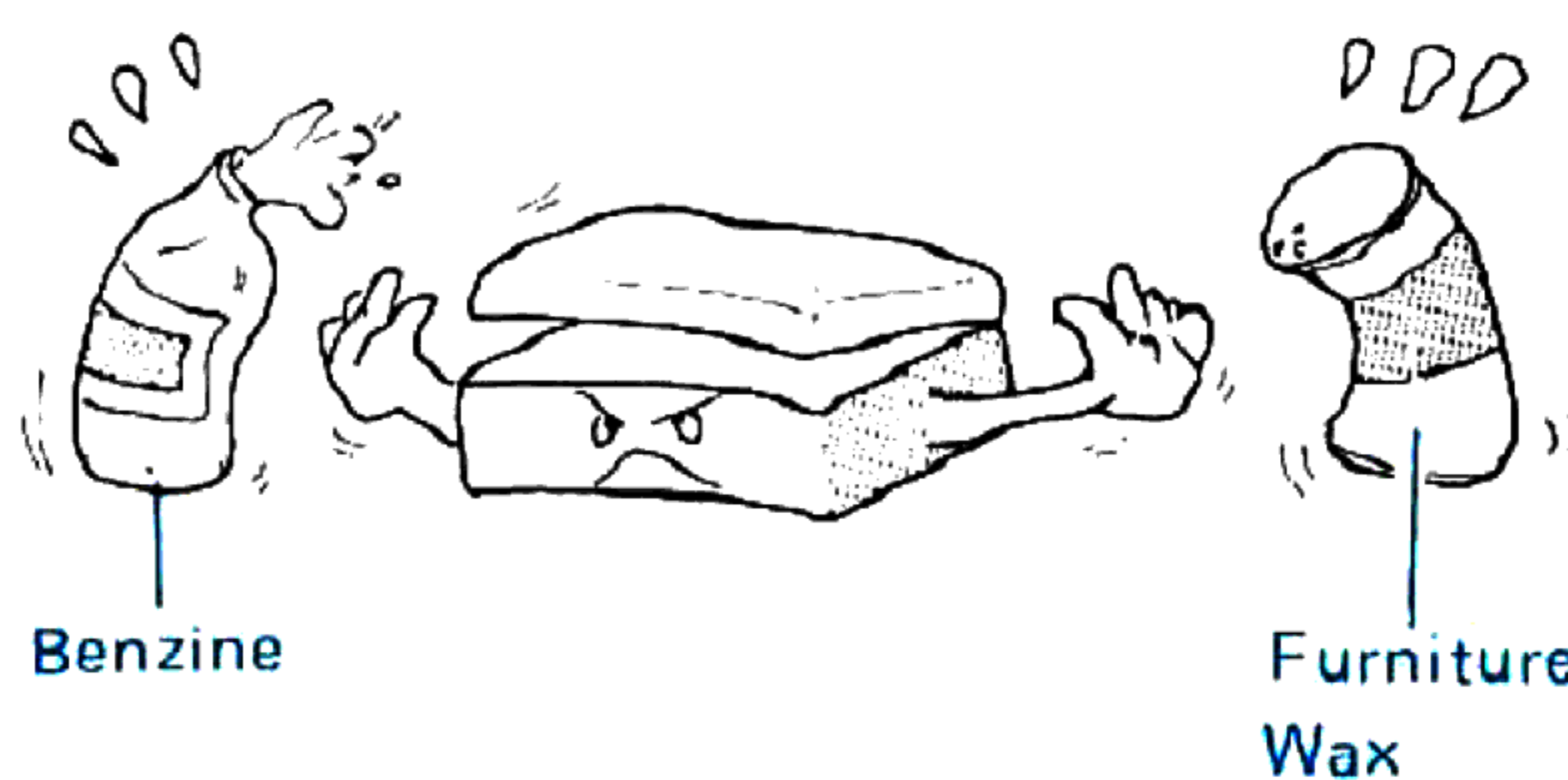
The front of the head, the capstan shaft, and the pinch roller are liable to become dirty. If they are used without cleaning them, sound quality will deteriorate, and sound skips may occur. Be sure to clean them to prevent such troubles.

Set the Power Switch to the OFF position and open the Head Protector. Clean them carefully with a soft cloth or a cotton applicator stick immersed in alcohol.



● Cabinet Cleaning

If the cabinet is dirty, carefully clean it with a soft cloth. Avoid using furniture wax, benzine or other volatile because it will adversely affect the cabinet surfaces.



● In Case of Trouble

When the unit does not function properly, contact your dealer or the nearest authorized PIONEER service station.

SPECIFICATIONS

Amplifier section

Music power 45W
Continuous power output
(both channels . . . 10W + 10W (40 ~ 20kHz,
driven) 1%, 8Ω)
12W + 12W (1kHz, 1%, 8Ω)
PHONO frequency
response 30 ~ 20,000Hz
70 ~ 15,000Hz ± 0.7dB
(RIAA equalization)
Input sensitivity/
impedance MIC: 4.5mV/5kΩ
TAPE MONI.: 150mV/
30kΩ
Output level/
Impedance REC OUT: 150mV/10kΩ
HEADPHONE: 8Ω
SPEAKER: 8Ω

Tuner section

FM
Frequency range 88 ~ 108MHz
Usable sensitivity . . . 14.8dBf (3.0μV)
50dB quieting
sensitivity 31.2dBf (20μV)
Capture ratio 2.5dB
Selectivity 50dB
Signal-to-noise ratio
(60dBf) 70dB
SW1
Frequency range 2.0 ~ 6.0MHz
Usable sensitivity . . . 200μV/m (Bar antenna)
SW2
Frequency range 6.0 ~ 18.0MHz
Usable sensitivity . . . 30μV (Ext. antenna)
MW
Frequency range 525 ~ 1,605kHz
Usable sensitivity . . . 160μV/m (Bar antenna)
Selectivity 25dB

Player section

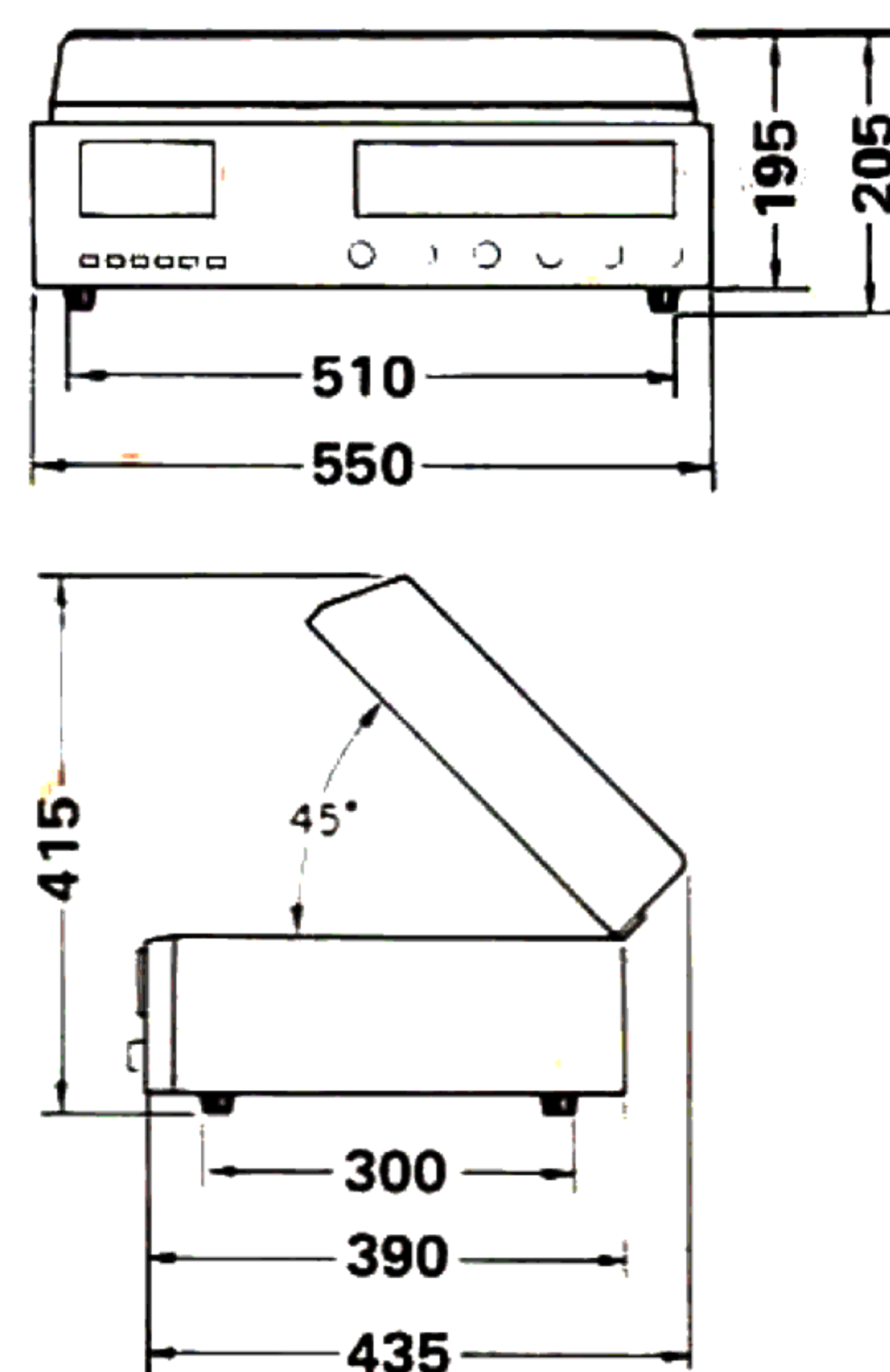
Wow and flutter 0.13% (WRMS)
Speed 33-1/3, 45 (r.p.m.)
Platter 280mm (11 in.)
Drive system Belt drive
Motor DC servo motor
Stylus PN-K85
Recommended stylus
pressure 2.5g

Cassette section

Wow and flutter 0.12% (WRMS)
Frequency range 50 ~ 12,000Hz
Cross talk 40dB
Channel separation . . 35dB (at 1kHz)

Miscellaneous

Power source 120/220/240V AC 50/60Hz
Power consumption . . 45W
Dimensions
(WxHxD) 550 x 195 x 390mm
(21-5/8x7-5/8x15-3/8 in.)
Weight 9.8kg (21.6 lbs.)



(mm)

Note:

Specifications and the design subject to possible modification without notice due to improvements.

PIONEER ELECTRONIC CORPORATION

4-1, Meguro 1-chome, Meguro-ku, TOKYO 153, JAPAN
PIONEER ELECTRONICS OF AMERICA
1925, E. Dominguez St., Long Beach, Calif. 90810
PIONEER ELECTRONIC (EUROPE) N.V.
Luithagen Haven 9, 2030 Antwerp, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD
178-184 Boundary Road, Braeside, Victoria 3195, Australia