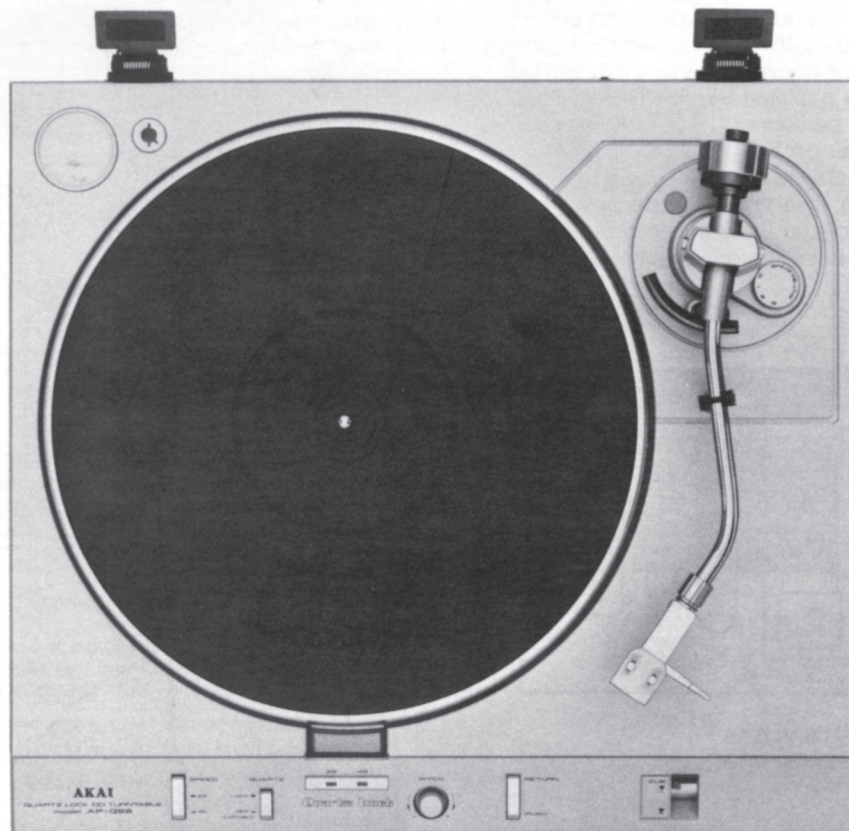


# AP-Q55/C

## QUARTZ LOCK DD TURNTABLE

- Note:** \* This manual is applicable to both silver and black panel models.  
**Remarque:** \* Ce manuel s'applique aussi aux modèles avec panneaux argent et noir.  
**Opmerkingn:** \* Deze gebruiksaanwijzing is van toepassing op modellen met zilver en zwart paneel.  
**Anmärkning:** \* Bruksanvisningen gäller för både modellerna med silverpanel och modellerna med mattsvart panel.  
**Anmerkung:** \* Diese Betriebsanleitung gilt auch für die Ausführung mattsilber und mattschwarz.  
**Nota:** \* Este manual cubre ambos modelos, el de panel plateado y el de panel negro.



### WARNING

To prevent fire or shock hazard, do not expose this appliance to rain or moisture.

**Operator's Manual**  
**Manuel de l'utilisateur**  
**Gebruiksaanwijzing**  
**Bruksanvisning**  
**Bedienungsanleitung**  
**Manual del usuario**

# AKAI

MANUFACTURED & DISTRIBUTED BY AKAI ELECTRIC CO., LTD.  
AKAI TRADING CO., LTD./AKAI AMERICA LTD.



## WARNING

### VOLTAGE SELECTION

Power requirements for electrical equipments differ from area to area.

Please make sure that your equipment meets the power requirements in your area.

If in doubt, ask a qualified electrician.

120 V, 60 Hz in USA and Canada

220 V, 50 Hz in Europe except UK

240 V, 50 Hz in UK and Australia

110—120 V/220—240 V, 50/60 Hz internally switchable for other countries.

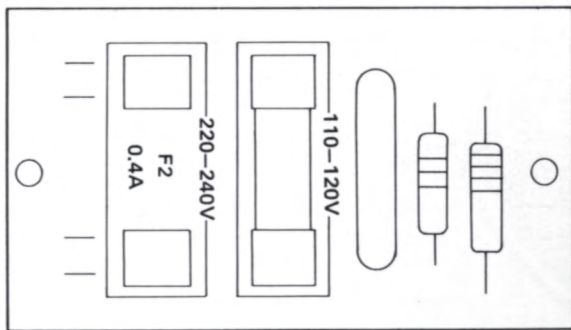
### VOLTAGE CONVERSION

**Do not attempt this conversion yourself.**

Voltage conversion (Models for Canada, USA, Europe, UK and Australia are not equipped with this facility).

Each machine is preset at the factory according to destination, but some machines can be set to 110—120 V or to 220—240 V as required. If your machine's voltage can be converted, refer the following voltage conversion to a qualified Service Repair Shop or professional service personnel.

1. Disconnect the power cord.
2. Remove the bottom cover.
3. Remove the existing Line Voltage Fuse and insert the required Line Voltage Fuse in the proper fuse holder according to the printed instructions.



110—120V: 0.4A  
220—240V: 0.4A

## PRECAUTIONS

1. Use only household AC power sources. Never use DC power sources.
2. Touching the plug with wet hands risks dangerous electric shocks. Always pull out by the plug and never the cord.
3. Make sure the power consumption to each audio component does not exceed wattage specified. Only connect other audio components.
4. Only let a qualified professional repair or reassemble the equipment. An unauthorized person may touch the internal parts and receive a serious electric shock.
5. Never allow a child to put anything, especially metal into this equipment. A serious shock or malfunction may occur.
6. If water is spilled on this equipment, disconnect and call your dealer.

## FOR CUSTOMERS IN THE UK IMPORTANT FOR YOUR SAFETY

The flex supplied with your machine will have either two wires or three as shown in the illustrations.

### THREE CORE FLEX

#### WARNING

### THIS APPARATUS MUST BE EARTHED IMPORTANT

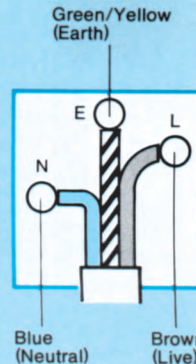
The wires in this mains lead are coloured in accordance with the following code: Green-and-yellow: Earth  
Blue: Neutral,  
Brown: Live

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 green-and-yellow must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  $\perp$  or coloured green or coloured green-and-yellow.

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

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



### TWO CORE FLEX

#### IMPORTANT

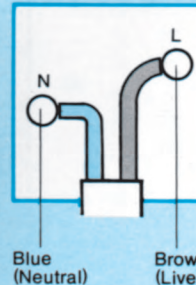
The wires in this mains lead are coloured in accordance with the following code: Blue: Neutral,  
Brown: Live

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 by the letter N or coloured black.

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

\* Do not connect any wire to the larger pin marked E or  $\perp$  when wiring a plug. Ensure that all terminals are securely tightened and that no loose strands of wire exist.

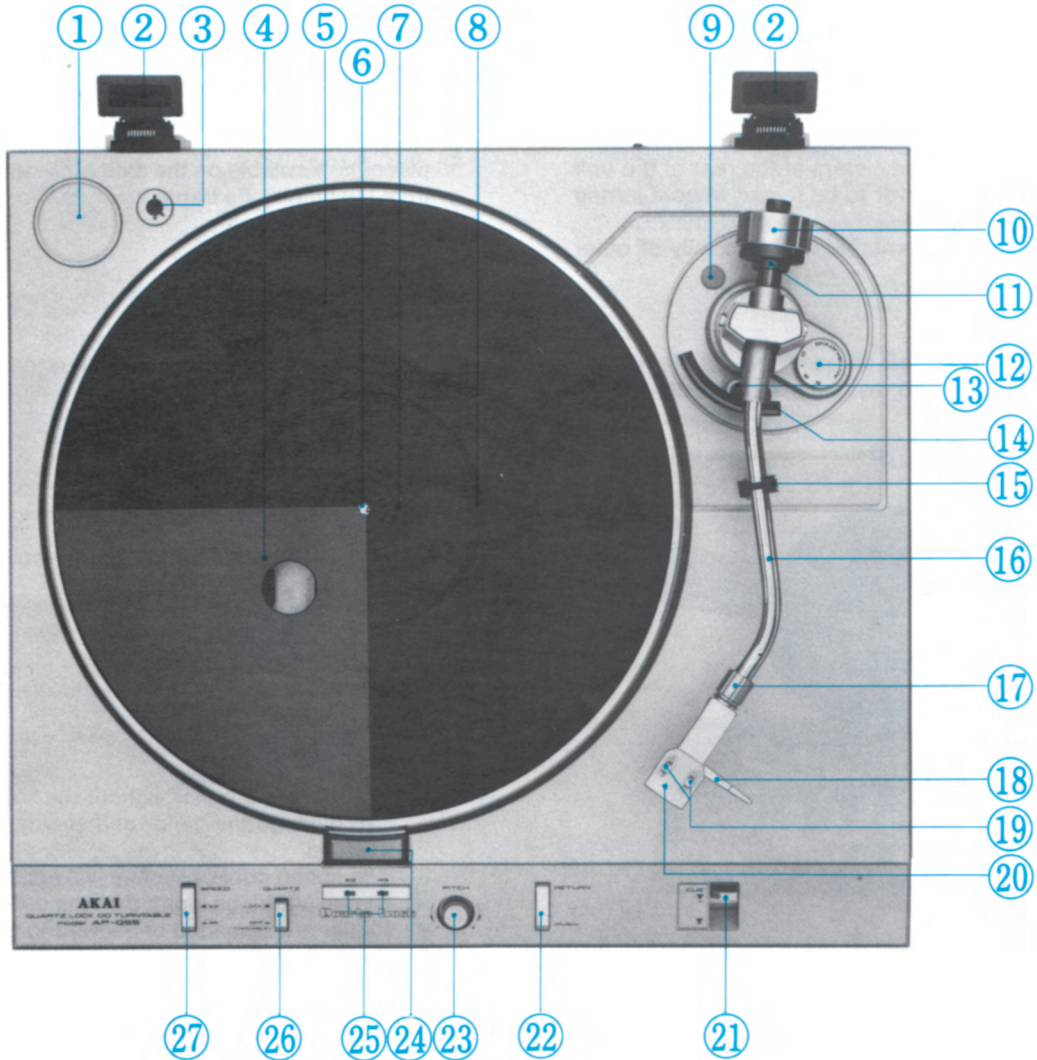


## FOR CUSTOMERS IN AUSTRALIA

If your machine comes with a three core power cord, FOR YOUR SAFETY.

1. Insert this plug only into an effectively earthed three-pin plug socket outlet.
2. If any doubt exists regarding the earthing, consult a qualified electrician.
3. Extension cords, if used, must be three core correctly wired.
7. Make sure the equipment is well ventilated and away from direct sunlight.
8. Keep away from heat (stoves, etc.) to avoid damage to the external surface and internal circuits.
9. Avoid spray-type insecticides which will damage the equipment and may ignite suddenly.
10. To avoid damaging the finish never use alcohol, paint thinner or other similar chemicals.
11. Always place the equipment on a flat and solid surface.
12. To avoid damages, place the turntable in its original box wrapped in its protective wrappers when transporting.
13. Please read this manual in its entirety and keep it handy for further reference.

## CONTROLS



\* A cartridge is not included with AP-Q55.

- |  |  |
|--|--|
| 1. 45 rpm Adapter Holder                       | 15. Tone Arm Rest  |
| 2. Hinges                                      | 16. Tone Arm   |
| 3. Cartridge Shell Holder                      | 17. Locking Nut  |
| 4. Platter                                     | 18. Cartridge Shell Finger Lever                                   |
| 5. Rubber Mat                                  | 19. Cartridge Re-setting Screws                                    |
| 6. Spindle                                     | 20. Cartridge Shell  |
| 7. Groove for Overhang Adjustment              | 21. Cueing Lever (CUE) ( $\nabla$ to lift, $\nabla$ to lower)      |
| 8. Groove for Auto-return Adjustment           | 22. RETURN Switch  |
| 9. Auto-return Adjustment Screw Cap            | 23. PITCH Control  |
| 10. Main Weight                                | 24. Strobe Scope Window  |
| 11. Stylus Pressure Scale Ring                 | 25. 33 and 45 rpm Speed Indicators                                 |
| 12. ANTISKATING Adjuster                       | 26. QUARTZ Lock Switch   |
| 13. Tone Arm Lifter Elevation Adjustment Screw | 27. SPEED Selector ( $\blacksquare$ 33 rpm, $\blacksquare$ 45 rpm) |
| 14. Tone Arm Lifter                            |  |



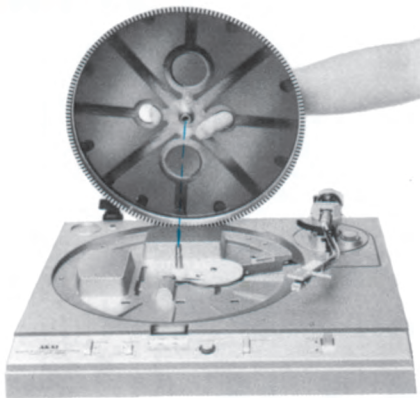
## TURNTABLE PLACEMENT

1. Please read this manual in its entirety and keep it handy for further reference.
2. Locate the turntable on a firm, level surface.
3. Handle the equipment carefully—avoid subjecting it to sudden shocks such as from a slamming of a door.
4. Keep the unit out of the direct sunlight, in a place relatively free of dust and humidity.
5. Provide about 10 centimeters at the rear of the unit to permit the dust cover to be raised without jarring the turntable.
6. Avoid locating the turntable in the vicinity of other

electrical equipment such as television receivers. These generate signals which can cause hum or noise.

7. Howling during play is often caused by incorrect speaker placement. If the speakers are too close to the turntable, the stylus will pick up vibrations. Avoid placing the unit on a speaker cabinet.
8. When interconnecting the turntable and amplifier, place the turntable on the side of the amplifier away from the amplifier's transformer, to avoid noise pick-up.

## TURNTABLE SET-UP



### A. PLATTER

While setting up or dismantling the turntable, make sure it is not connected either to the amplifier or to the power source.

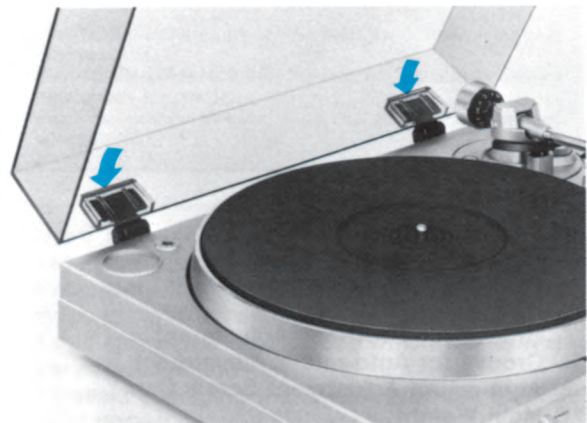
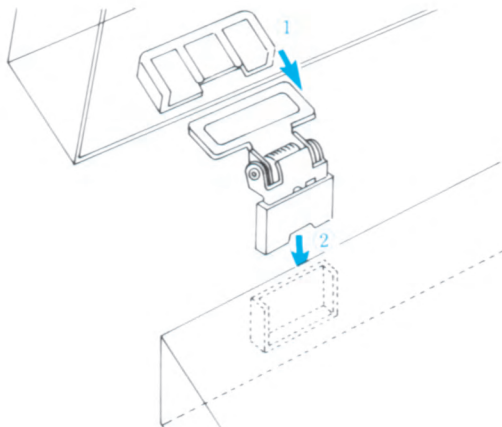
1. Remove all protective wrappers and dust the Platter and the rest of the turntable thoroughly with a soft, clean, dry cloth.
2. Align the center of the Platter with the Spindle and carefully lower into place.
3. Place the Rubber Mat on the Platter, the grooved side downwards.

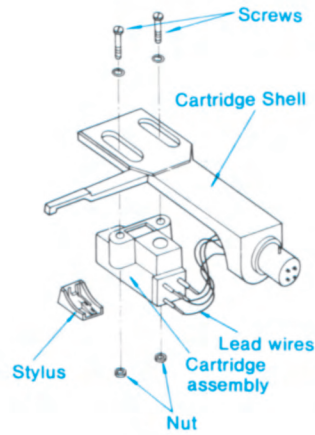
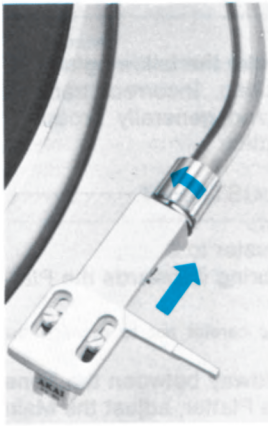
Note: Operating the motor without the Platter in place can damage the motor and should therefore be avoided.

The speed control system will malfunction if the Strobe Markings located on the underside of the Platter are damaged or allowed to become dirty.

### B. DUST COVER

Fit the slots in the dust cover over the hinges. Clean with a soft, dry cloth only.





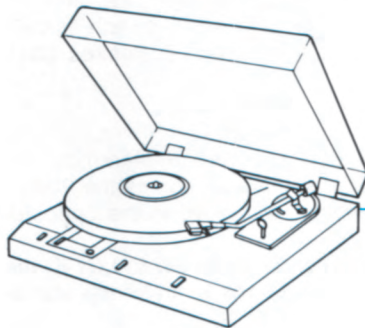
### C. TONE ARM

1. Lock the Tone Arm to the Tone Arm Rest.
2. Remove the vinyl ribbons from the Tone Arm and fit the Cartridge Shell to it, being careful to match the Guide Pin into the upper slot. Turn the Locking Nut counterclockwise to secure it.
  - \* Do not remove the Stylus Guard while fitting the Cartridge Shell to the Tone Arm.
  - \* Cartridge is not included with the AP-Q55 turntable. Read the manufacturer's instructions carefully before attempting installation. Cartridge Shell lead designations are as follows:
 

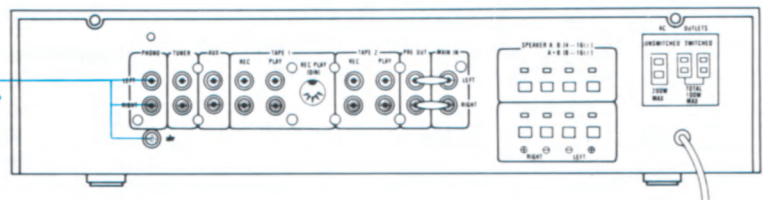
BLUE:	Left Ground (Earth) (-)
WHITE:	Left Output (+)
GREEN:	Right Ground (Earth) (-)
RED:	Right Output (+)
3. With the Stylus Pressure Scale Ring to the front, fit the Main Weight to the rear end of the Tone Arm and turn counterclockwise.

## CONNECTIONS

1. Connect the Built-in Connection Cord to the Phono Input Jack on the amplifier, being careful to match the left (white) and right (red) channel plugs and jacks.

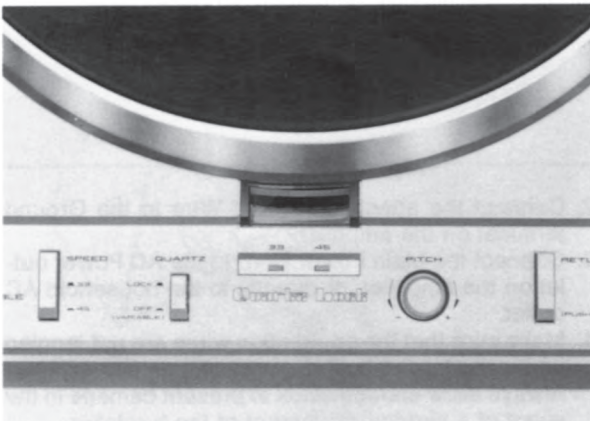
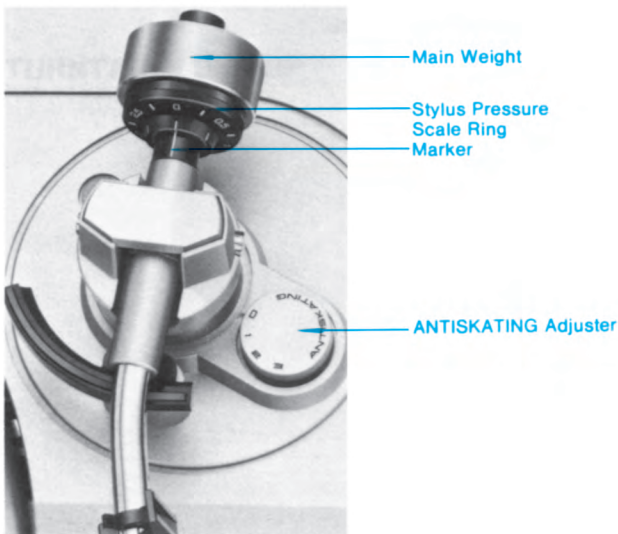


2. Connect the attached Ground Wire to the Ground terminal on the amplifier.
3. Connect the Main Power Cord to the AC Power outlet on the amplifier, or directly to the household AC outlet.
4. Make sure that the connection wires are not tangled under the turntable. Always allow enough slack to prevent damage in the event of a sudden movement of the turntable.





## ADJUSTMENTS



Before playing any records, make the following adjustments to ensure proper tracking. Incorrect tracking causes hum and distortion, and generally produces inferior stereo sound reproduction.

### A. STYLUS PRESSURE ADJUSTMENT

1. Disconnect the Power Cord.
2. Set the ANTISKATING Adjuster to 0.
3. Unlock the Tone Arm and bring it towards the Platter.
  - \* Remove the Stylus Guard being careful not to damage the Stylus.
4. With the Tone Arm held midway between the Tone Arm Rest and the rim of the Platter, adjust the Main Weight until the Tone Arm is in perfect horizontal balance.
5. Without moving the Main Weight, rotate the Stylus Pressure Scale Ring only to match the "0" mark with the mark on the weight shaft.
6. Return the Tone Arm to the Tone Arm Rest.
7. Lock the Tone Arm in place and rotate the Main Weight counterclockwise, as viewed from the front (the Stylus Pressure Scale Ring will move with it), until the desired Stylus Pressure Scale indication is at the mark on the shaft. The range of adjustment is from 0 to 3 grams.
  - \* For AP-Q55C only: The recommended stylus pressure for the stylus supplied, RS-90, is 2 grams.
8. Set the ANTISKATING adjuster to the corresponding stylus pressure.

### B. QUARTZ LOCK AND SPEED CONTROL

This turntable incorporates a Quartz Locked Loop circuit which assures a virtually constant and accurate Platter speed.

Simply set the QUARTZ Lock switch to LOCK and the turntable will automatically adjust to the correct speed and maintain this during playback.

This can be verified by noting that the Strobe Markings appear not to move. As the DC motor and the Quartz-controlled Strobe Light are not affected by changes of power frequency; only a single row of markings is necessary for checking the speed.

The turntable also permits playback at different pitches. Simply set the QUARTZ Lock switch to OFF and adjust the PITCH control until the desired pitch speed is obtained.

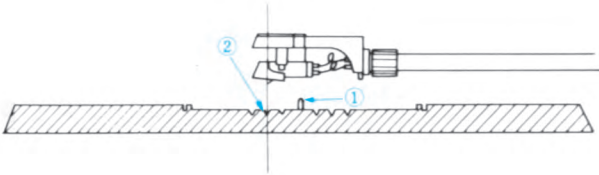
To raise the pitch—turn towards (+)

To lower the pitch—turn towards (—)

When the pitch is raised, the Strobe Markings will advance to the left in the same direction as the Platter rotation, and when lowered, will move in the opposite direction.

If the QUARTZ Lock switch is again set to LOCK, the Platter speed will be brought back to its former standard speed automatically.

- 1 Spindle
- 2 Groove for Overhang Adjustment

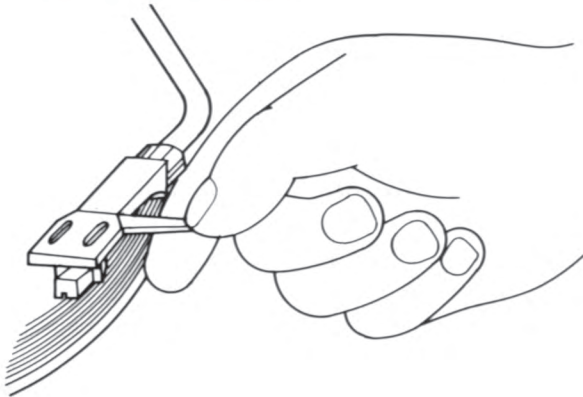


### C. OVERHANG

The distance between the Spindle and the Stylus when the Tone Arm is centered over the Platter is known as the overhang. Different cartridges require different overhang adjustments. For your convenience, the rubber mat has indicator grooves at the center to facilitate overhang adjustment.

1. Disconnect the Power Cord.
2. Center the Tone Arm over the Platter.
3. Adjust the cartridge so that the Stylus position is even with the middle groove ring.
  - The cartridge position can be adjusted by resetting the Cartridge Re-setting Screws in the shell.

### PLAYBACK OPERATION

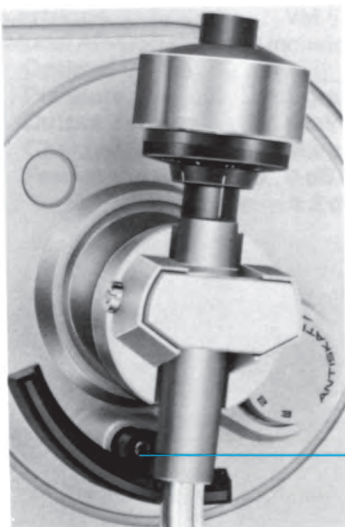


1. Connect the Power Cord.
2. Place a record on the Platter.
3. Remove the Stylus Guard and unlock the Tone Arm.
4. Set the SPEED selector to 33 or 45.
5. Set the Cueing (CUE) lever to ▼ .
6. Move the Tone arm to the desired position above the record.
7. The Platter will begin to rotate.
8. Set the Cueing lever to ▼ .
9. At the completion of playback, the Tone Arm will rise and return to the Tone Arm Rest automatically. The power will be cut off and the Platter will stop rotating.
10. Set the Cueing lever to ▼ .
  - Should you wish to skip any portion of the record, set the Cueing (CUE) lever to ▼ and move the Tone Arm to the desired band, manually. Reset the Cueing lever to ▼ to lower the Tone Arm and continue playback.
  - To stop playback before the end of the record, depress the RETURN switch. The Tone Arm will return to the Tone Arm Rest automatically and the Platter rotation will stop. Set the Cueing lever to ▼ .

### TONE ARM LIFTER ELEVATION ADJUSTMENT

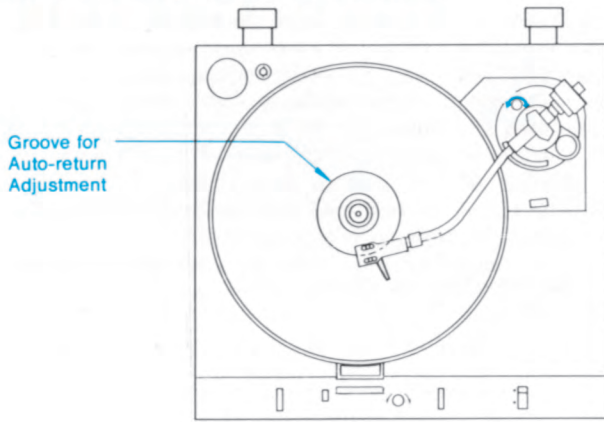


With the CUE Lever set to ▼ , the Stylus should rise to 8 mm above the record surface. If it does not, increase the elevation by adjusting the Tone Arm Lifter Elevation Adjustment Screw.



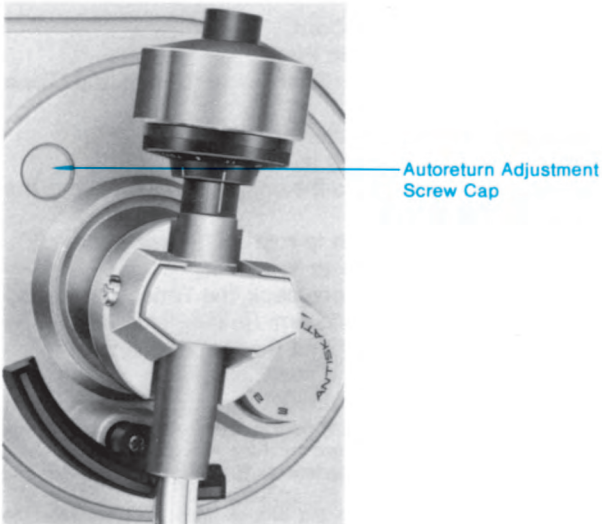
Arm Lifter Elevation Adjustment Screw

## AUTO-RETURN ADJUSTMENT



If the Tone Arm does not return automatically to the Tone Arm Rest at the end of the playback, or does so during playback:

1. Leave the Power Cord connected for easy confirmation of adjustment, and return the the Tone Arm to Tone Arm Rest.
2. Remove the Auto-Return Adjustment Screw Cap.
3. Adjust the Auto-Return Adjustment Screw.
  - \* Turning the screw 90° clockwise moves the position of Stylus approx. 4.5mm towards the Spindle. Turning 90° counter-clockwise moves the position of Stylus approx. 4.5mm away from the Spindle.
4. Put the Tone Arm just over the Groove for Auto-Return Adjustment in the rubber mat.
5. Listen for a clicking which indicates that the Auto-Return adjustment is successful.  
If no clicking is heard, repeat the procedure until it is.



## 4-CHANNEL STEREO

The turntable can also be used for 4-channel stereo operation. For SQ or Regular Matrix 4-channel operation, the unit must be used with a 4-channel cartridge and stylus.  
For CD-4 System 4-channel, replace the existing

cartridge with a stylus for CD-4 use. This is all that is needed to provide CD-4 System 4-channel operation. After accomplishing this change, connect the turntable to a 4-channel adapter.



## NOTES

1. This turntable has been factory adjusted to accommodate the Model PC-90 cartridge, but any Moving Coil (MC) or Moving Magnet (MM) type of cartridge can be used. Adjustments should be made as outlined in this Manual.
2. The turntable uses a self-lubricating DC Servo Motor; no additional lubrication is necessary.
3. The Stylus should always be kept clean and should be checked prior to every use. The Stylus should always be protected by its guard when not being used. Any dust, lint, or other matter adhering to it can damage the record and impair the quality of the sound. Always clean and handle the Stylus gently without knocking or jarring it. Use a soft clean brush to clean the Stylus.
4. The life of the Stylus is much shorter than that of the turntable. If the Stylus becomes worn, bent, or otherwise damaged, it will damage the surface of the record. Replace such a Stylus immediately and avoid playing scratched or damaged records.
5. Always avoid touching the surface of the record with the fingers as this will leave marks. Clean the surface of the record with Akai's Cleaning Kit CK-200. Make sure that the surface of the record is completely dry before playing it.
6. Never attempt to stop the Platter from rotating, with your hands.
7. Never interfere with the motion of the Tone Arm during Auto-Return.
8. The Speed Control System will malfunction if the Strobe Markings located on the underside of the Platter are damaged or allowed to become dirty. Should there be a problem with your machine, write down the model and serial numbers and all pertinent data regarding warranty coverage as well as a clear description of the existing trouble and contact your nearest authorized Akai Service Station or the Service Department of Akai Company, Tokyo, Japan.

## SPECIFICATIONS

<b>Turntable</b> .....	Aluminum alloy die cast
<b>Drive System &amp; Mechanism</b> .....	Quartz locked direct drive, Autoreturn
<b>Motor</b> .....	DC servo
<b>Speed &amp; Pitch Control</b> ..	33-1/3, 45 rpm $\pm 5\%$
<b>Speed Deviation</b> .....	Less than $\pm 0.003\%$
<b>Wow &amp; Flutter</b> .....	0.05% (DIN), 0.035% (JIS)
<b>Rumble</b> .....	45 dB (DIN A), 70 dB (DIN B)
<b>Tone Arm</b> .....	S-shaped Static Balanced
<b>Effective Arm Length</b> ..	220mm
<b>Stylus Pressure Adjustment Range</b> .....	0 to 3 grams
<b>Applicable Cartridge</b>	
<b>Weight</b> .....	4 to 12 grams
<b>Arm Lifter</b> .....	Oil damped
<b>Overhang</b> .....	15 mm
<b>Offset Angle</b> .....	22°30'
<b>Horizontal Tracking</b>	
<b>Error Angle</b> .....	+3°5', -1°13'
<b>Shell Weight</b> .....	8.2 grams
<b>Cartridge</b> .....	VM (Dual Magnet) type
[Model AP-Q55 does not include cartridge]	
<b>Optimal Stylus Pressure</b> .....	2 grams
<b>Output Voltage</b> .....	5 mV
<b>Channel Separation</b> ..	More than 20 dB (DIN)
<b>Frequency Response</b> ..	0 dB at 1 kHz, $\pm 2$ dB at 10 kHz

<b>Static Vertical Compliance</b> .....	$17.7 \times 10^{-6}$ cm/dyn
<b>Static Horizontal Compliance</b> .....	$29.1 \times 10^{-6}$ cm/dyn
<b>Power Requirements</b> .....	120V, 60 Hz for USA and Canada 220V, 50 Hz for Europe except UK 240V, 50 Hz for UK and Australia 110-120V/220-240V, 50/60 Hz switchable for other countries
<b>Dimensions</b> .....	440 (W) $\times$ 140 (H) 403 (D) mm (17.3 $\times$ 5.5 $\times$ 15.8 inches)
<b>Weight</b> .....	5.7 kg (12.6 lbs)

### STANDARD ACCESSORIES

45 rpm Adapter .....	1
Screwdriver .....	1
Operator's Manual .....	1

### OPTIONAL ACCESSORIES

Replacement Stylus .....	RS-90
Akai Cleaning Kit .....	CK-200

- \* For improvement purposes, specifications and design are subject to change without notice.

### DL TYPE TURNTABLE

- \* DL type turntables are not equipped with dust cover or hinges.
- \* Dust cover and hinges are not necessary when placing the DL type turntable inside an audio rack with a special section for turntable.