
Full-Automatic Turntable PL-701

Instruction Manual



WARNING:

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



The model number and the serial number are located at the rear of the turntable.

Record the serial number in the space provided below. Refer to it whenever you call upon your Kyocera dealer regarding the unit.

Serial No. _____

Features

- High density ceramic compound resin (CCR) sub chassis for the effective rejection of vibration interference.
- Frequency-generated servo motor.
- Fully automatic tone arm operation with separate dc motor.
- Dual suspension system for anti-vibration efficiency.
- Tinted and removable dust cover. Straight tubular low mass aluminum tone arm.
- Carbon fibre, removable head shell.
- Adjustable base height suspension.
- Stabilizer with speed strobo scope pattern.
- Microcomputer electronic sensing tone arm control.
- 3.3 lbs. platter with dense rubber mat.
- Low capacity audio cables of approximately 100 pF/m.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE BOTTOM COVER OR SIDE PANELS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SER-</p>		



This symbol is intended to alert you of the presence of uninsulated dangerous voltage within the unit's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert you of the presence of important operating and maintenance instructions in the literature accompanying the unit.

Installation

Unpacking

Unpack the turntable carefully. Be sure to remove the accessories. After unpacking inspect your unit carefully for signs of damage. If damage is found, contact your authorized Kyocera dealer at once.

Do not throw away the carton or associated packing materials. They are ideal if you need to pack the unit for moving, and in the event that servicing is needed, will be required for shipment.

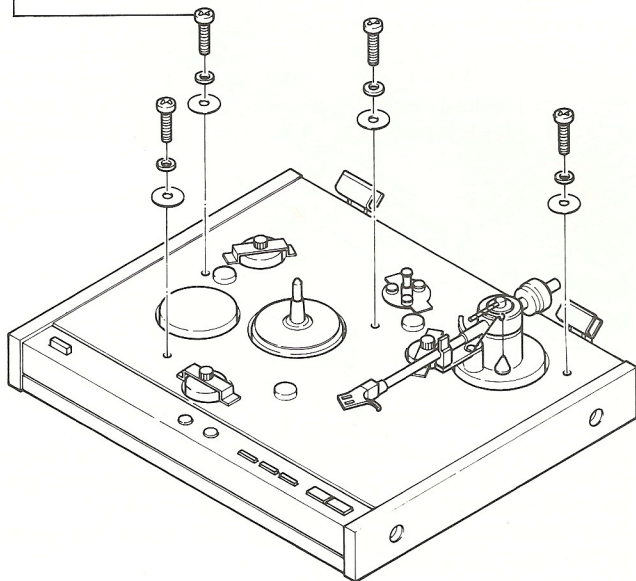
Accessories packed with the unit

Disc stabilizer with stroboscope indication
Tone arm balance weight
Antiskating weight
Headshell
Instruction manual
Warranty registration card
Single play (45 rpm) adaptor

Removal of the shipping safety screws

Before installing and operating the turntable, be sure to remove the shipping safety screws (3). This releases the sub chassis and the turntable mechanism for proper anti-vibration suspension.

Remove the screws and washers.
(But retain for future shipment of the turntable.)



Precautions

This turntable should not be used near water—for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.

If you experience problems, do not open the turntable; Potentially lethal voltages are contained within. See servicing information in this manual.

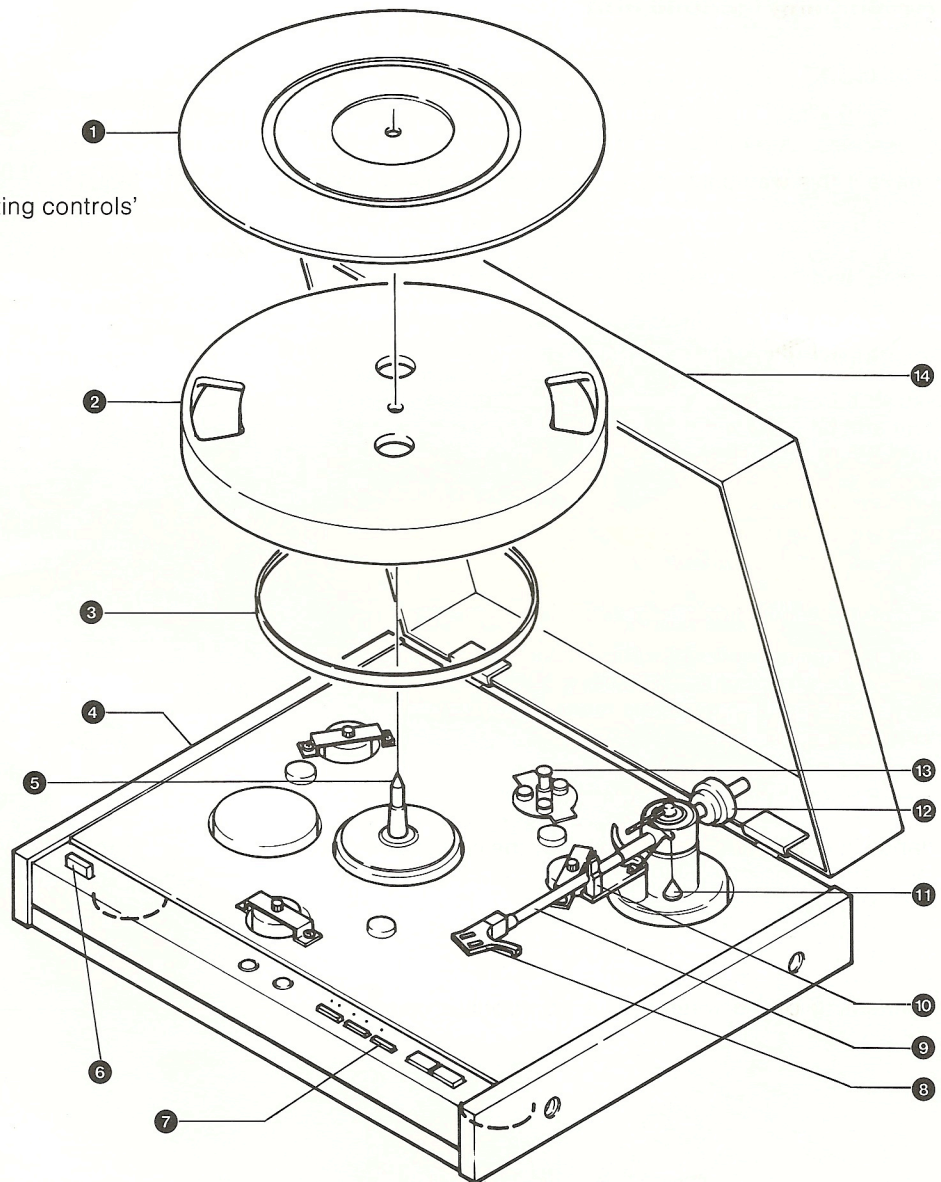
- Do not remove the bottom cover of the turntable as there are no user-serviceable parts inside. You should refer servicing to qualified service personnel.
- Do not expose the turntable to excessive dust, moisture or direct sources of heat.
- If mounted where ventilation may be restricted, care must be taken to provide a minimum opening of 50 square inches for free air movement.
- Clean by wiping with a soft cloth moistened with household window cleaner. Do not use volatile cleaning or thinning chemicals such as acetone or gasoline (petrol) as they may damage the finish.

AC power requirement

The operating voltage of the unit must be the same as the voltage of your power source. In the U.S.A. this is 120V 60 Hz ac (Actual voltage may vary from as high as 125V to as low as 90V during peak power usage period). Check the rear of the unit to insure that it will operate properly on your power source. If the label indicates voltages not appropriate for your area, or if you are not sure, contact your authorized dealer.

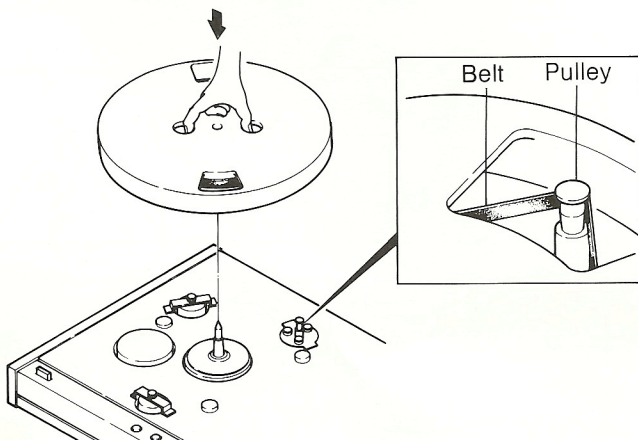
Designation of parts

- ① Rubber mat
- ② Platter
- ③ Rubber belt
- ④ Base
- ⑤ Center spindle
- ⑥ POWER switch
- ⑦ Operating controls (See 'Operating controls' section.)
- ⑧ Head shell
- ⑨ Tone arm
- ⑩ Tone arm rest
- ⑪ Antiskating weight
- ⑫ Balance weight
- ⑬ Motor pulley
- ⑭ Dust cover



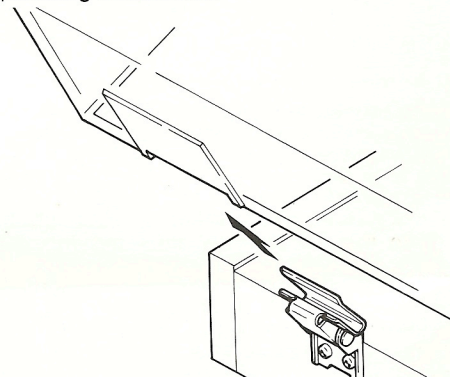
Installing the platter

Fit the center hole of the platter ② to the center spindle ⑤. Then fit the rubber belt around the motor pulley ⑬.



Assembly or removing the dust cover.

The rear of the dust cover is simply slid into the hinges at the rear of the turntable base. The hinges also permit easy removal of the dust cover ⑭. It is recommended to keep the dust cover on under normal operating conditions.

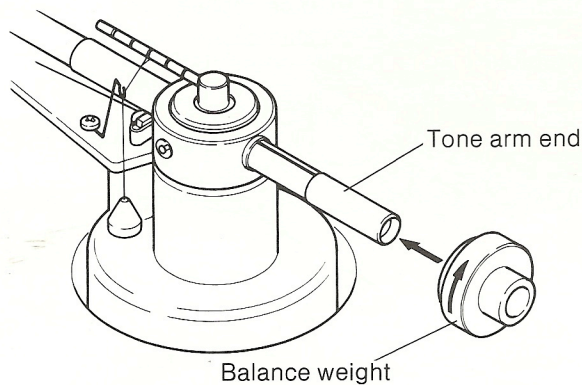


Assembling the tone arm

1 Fitting the balance weight

Attach the balance weight ⑫ to the end of the tone arm ⑨, by sliding it over the rear end of the tone arm shaft, and give it a few turns clockwise to make sure it is properly attached.

Leave it this way until you adjust for the proper tracking force as instructed later.

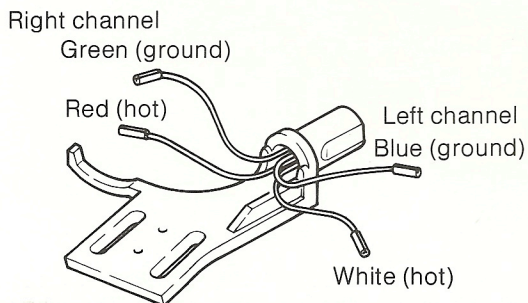


2 Connecting a cartridge

Your turntable is normally supplied with a headshell but without a cartridge.

For best performance, a high quality phono cartridge is recommended. See your Kyocera dealer for proper guidance in making a selection. Follow the cartridge mounting instructions carefully. Once the cartridge is fitted to the headshell, insert the connector of the headshell into the receptacle at the front end of the tone arm shaft, and fix it by turning the lock nut.

Refer to the cartridge wiring diagram below for proper connecting of the wires to the appropriate contact terminals.



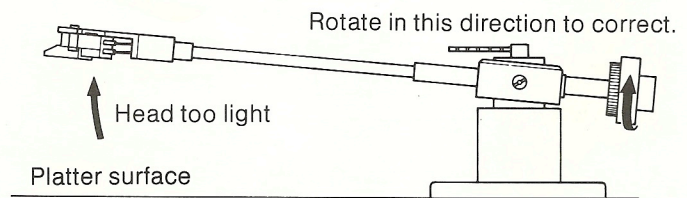
Adjusting the tone arm

1 Carefully remove the stylus/needle protection cover, if any, from the cartridge.

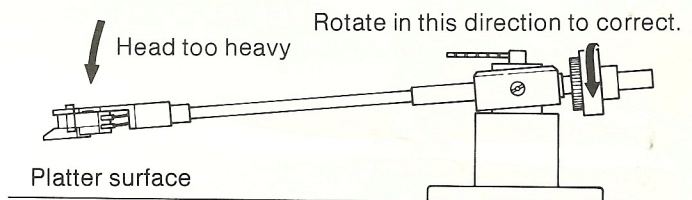
2 Release the tone arm rest clamber. Note the tone arm will swing up, down, or sideways, so care should be taken to avoid damage of the stylus.

3 Balance the entire tone arm, by turning the balance weight ⑫ to the left or right thus moving it back and forth. Leave the balance weight where it balances the tone arm horizontally. When the above adjustment is finished, secure the tonearm on the tone arm rest ⑩ with the clamber.

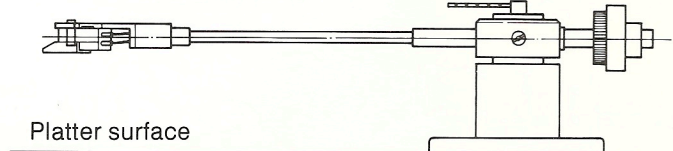
Improperly balanced



Improperly balanced



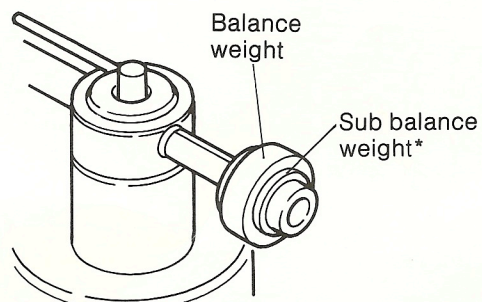
Properly balanced



Note: The sub balance weight

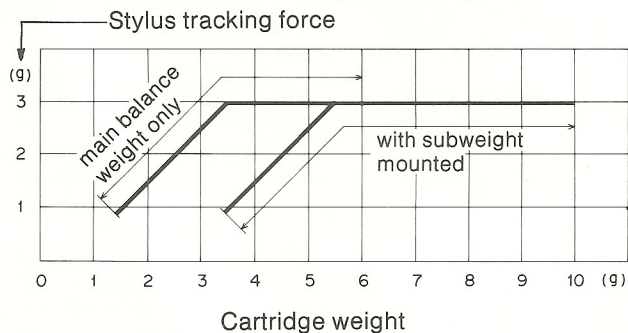
If the weight of the cartridge used is more than 5.5 g but less than 10g (including the screws and washers), the tone arm may not be balanced horizontally. Should the occasion arise, mount the sub balance weight supplied with the turntable onto the back of the tone arm balance weight as shown.

*Secure the screw on the sub balance weight using a small straight blade screw driver.



Reference: Cartridge vs. stylus tracking force

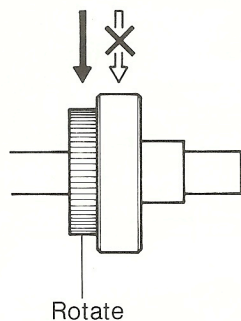
Virtually any cartridges with a weight ranging from as low as 3g and up to 10g may be used with the PL-701.



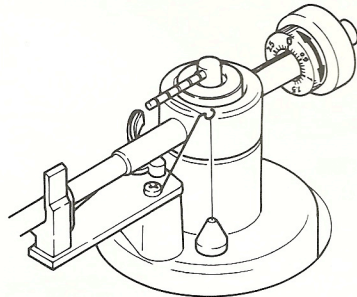
Note: IF you use a cartridge of 3g, the stylus tracking force applied should be less than 2.5g.

4 With the tone arm properly balanced horizontally, it has a tracking force of '0' gram.

To prepare the tracking force adjustment, turn only the tracking force dial on the front of the balance weight to read '0' by matching it with the reference mark line of the tone arm shaft. Note that the tracking force dial is concentrically clutched on the balance weight and be sure not to turn the entire balance weight as this will spoil the horizontal balance of the tone arm.



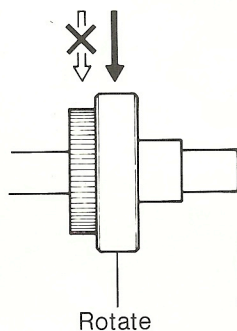
Turn the dial to read '0' on the reference mark.



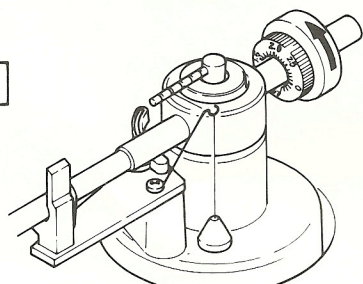
5 Adjusting the tracking force:

Turn the entire balance weight front and rear together until the tracking force dial indicates the appropriate tracking force for your cartridge.

Note the cartridge operates best with a tracking force equal to that recommended by the cartridge manufacturer.



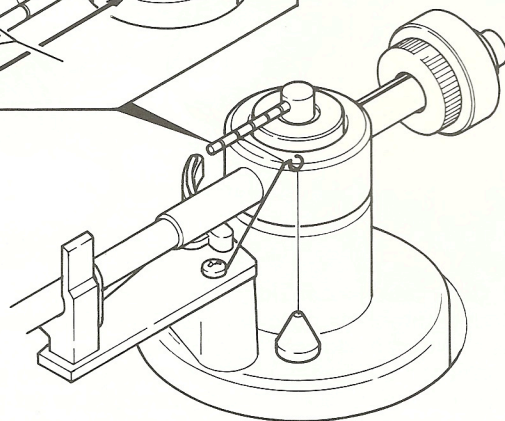
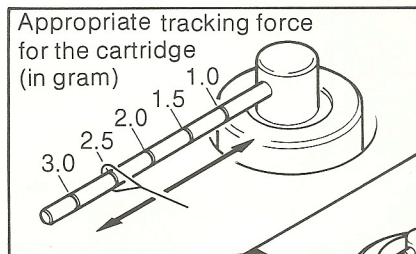
Rotate the entire weight for the appropriate tracking force.



6 Adjusting the antiskating weight:

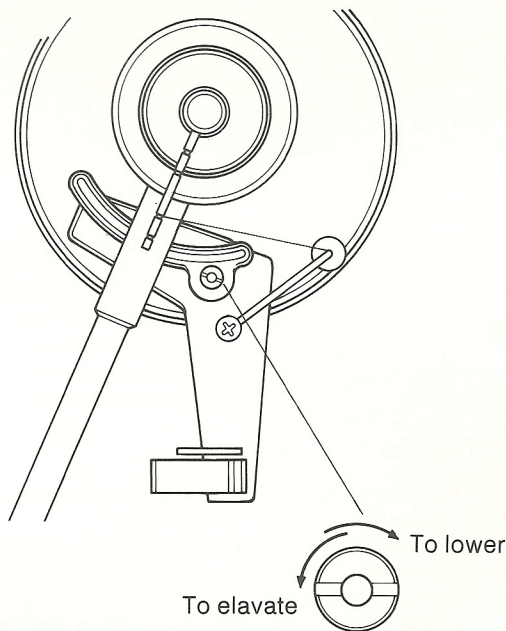
As the cartridge tracks a revolving disc groove, the stylus tends to be pulled toward the center of the disc. This 'inside force' presses the stylus against the inner wall of the record groove. The ability to track the groove properly is reduced, and the reproduced sound can be slightly distorted.

To adjust the antiskating setting: Hang the tied up (loop) end of the antiskating weight onto the position appropriate to the tracking force applied.



7 Adjusting the tone arm height to the platter

Move the tone arm off the rest and press the UP button. Adjust the screw shown below so that the distance of the stylus tip from the platter surface is approximately 13/64" (5mm).



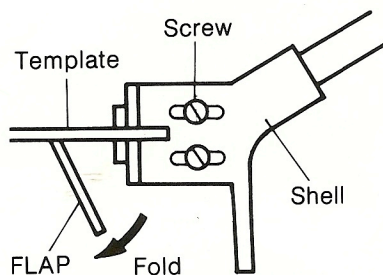
Note: To rotate the adjustment screw a U-shaped screwdriver is normally required. However, a small straight blade screwdriver may be substituted by placing it in either small groove on the screw.

Stylus overhang calibration

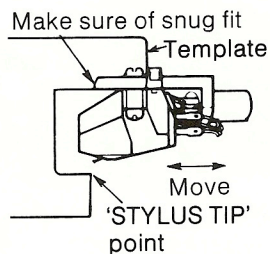
After mounting the cartridge and leaving the mounting screws slightly loose, the stylus overhang calibration should be made as follows. For this purpose, the OVERHANG CALIBRATION TEMPLATE is supplied with the turntable.

1 Fold the FLAP of the template and place the headshell in the template as shown below.

Top view



Side view

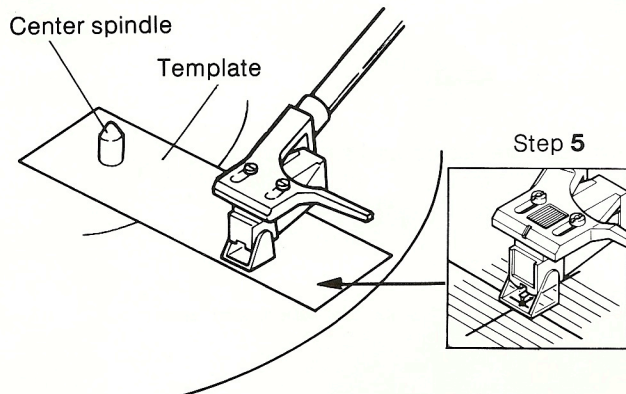


Note: Use special care not to damage the stylus tip.

2 While holding the headshell, gently move the cartridge so that stylus tip is positioned right above the template corner marked 'STYLUS TIP'. This adjustment is to achieve the correct distance from the tone arm base center to the stylus tip.

3 Place the template onto the turntable. The hole (marked 'ONTO THE SPINDLE') in the template goes over the center spindle shaft.

4 Place the template onto the platter as shown. Gently place the cartridge down and place the template + mark right under the stylus tip.



5 Adjust the cartridge so that the front edge of the cartridge is parallel to the mark.

6 Secure the cartridge to the headshell by tightening the two mounting screws. This completes the stylus overhang adjustment.

7 Recheck the overhang again to ensure the proper setting. If necessary repeat the previous steps.

Connecting to your amplifiers

Connect the audio signal cable from the turntable to your stereo amplifier.

1 The cable cord with the white plug to the left channel 'Phono' input jack.

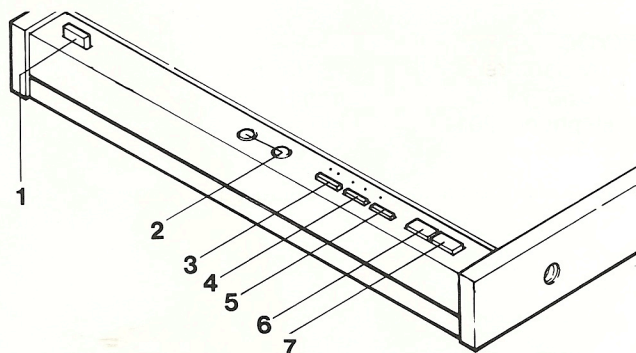
2 The cable cord with the red plug to the right channel 'Phono' input jack.

3 The black, ground wire to the 'Ground' terminal on the amplifier.

AC power connection

Connect the ac power cable to a wall outlet supplying 120V 60Hz AC.

Operating controls



1 POWER switch

Depress to turn the turntable power on. Depress again (release) to turn it off.

2 SPEED ADJ controls (33/45)

Used with the supplied disc stabilizer/storobo scope and to adjust the revolving speed of the platter in reference to the rated speed.

3 SPEED push button

Selects either the 33 or the 45 rpm speed. Each time this push button is pressed, the speed is changed from 33 rpm to 45 rpm or vice-versa. The selected speed is indicated by the illumination of the 33 or the 45 indicator.

4 SIZE push button (12"/7")

Selects the size of the disc to be played. 12" for LPs; 7" for single plays.

This selection must not be circumvented for the proper automatic play/return operation. The selection of the disc size is indicated by the illumination of the 12" or 7" indicator.

5 REPEAT push button

Press when playing the whole content of the disc repeatedly.

6 UP/DOWN push button

Used to raise or lower the tone arm.

7 START/EJECT push button

Press to commence the automatic play.

Speed adjustment

The 33/45 SPEED ADJ controls permit you to adjust the revolving speed of the turntable chosen by the SPEED push button (indicated by the illumination of 33 or 45 indicator).

Place the disc stabilizer/storobo onto the disc and start playing. Adjust the appropriate SPEED ADJ control so that the strobo scope pattern line marks look "still" (not moving to the left or right).

Operation

Set the volume control of your amplifier to the minimum position. Turn the POWER switch on. Set the program source selector on the amplifier to "PHONO" mode.

Free the tone arm by releasing the clammer upward at the tone arm rest.

Automatic play

1 Depress the SPEED push button to select the appropriate playing speed of the disc. The selected speed is indicated by the illumination of the 33 or 45 indicator.

2 Depress the SIZE push button to program the turntable for the appropriate size of the disc. The selected size is indicated by the illumination of the 12" (LP) or 7" (EP) indicator.

3 Press the START/EJECT push button to commence to play. The disc will start to revolve, the tone arm will automatically locate the beginning of the first track and "land" on it gently, and start playing.

4 Adjust the volume control of the amplifier to your listening preference. When the disc is finished, the tone arm will return to the arm rest automatically and the turntable will shut off. If you desire to terminate the play before the disc is finished, press the START/EJECT push button. The turntable will automatically shut off when the arm returns to the rest position.

Manual play

1 Depress the SPEED push button to select the appropriate playing speed of the disc. The selected speed is indicated by the illumination of the 33 or 45 indicator.

2 Depress the SIZE push button to program the turntable for the appropriate size of the disc. The selected size is indicated by the illumination of the 12" (LP) or 7" (EP) indicator.

3 Gently place your finger on the hook of the headshell and carefully move it to the beginning of the track you wish to play. Press the UP/DOWN push button to lower the tone arm onto the record and start playing.

4 Adjust the volume control of the amplifier. When the disc is finished, the tone arm will return to the arm rest automatically and the turntable will shut off. If you desire to terminate the play before the disc is finished, press the START/EJECT push button.

The turntable will automatically shut off when the arm returns to the rest position.

Note on handling the tone arm

When the tone arm is automatically returning to the arm rest, do not manually interfere with its motion.

During play mode, do not touch the platter or tone arm. To prevent possible damage to the disc or stylus during manual playing, the UP/DOWN push button should always be used to lower the tone arm onto the disc surface.

Specifications

Platter drive system	Belt drive
Insulation	Double floating
Motor	FG servo DC motor
Platter diameter/thickness	12" x 1-3/16"
Platter weight	3.3 lbs.
Platter mat weight	0.6 lbs.
Speed	33 or 45 rpm
Speed adjustment range	± 3%
Wow and flutter	0.03% nominal
S/N	70 dB DIN B nominal
Tone arm effective length	8-15/32"
Overhang	19/32"
Tracking error	less than ± 2°
Recommended stylus pressure	0 – 3g (with cartridge weight 3.5 – 10g) 0 – 2.5g (with cartridge weight 3 – 3.5g)
Recommended cartridge weight	3 – 10g
Headshell	Carbon fibre (removable)
Arm control	Electronic sensing
Sub chassis	CPU fully automatic Ceramic compound resin (CCR)*
AC power requirement	120V 60 Hz
Power consumption	10W
Dimensions	18-1/8" width 6" height with dust cover attached and closed 15-3/8" depth with dust cover closed
Weight	18 lbs 15 oz

*Non resonant ceramic compound resin. An advanced development of Kyocera ceramic technologies.

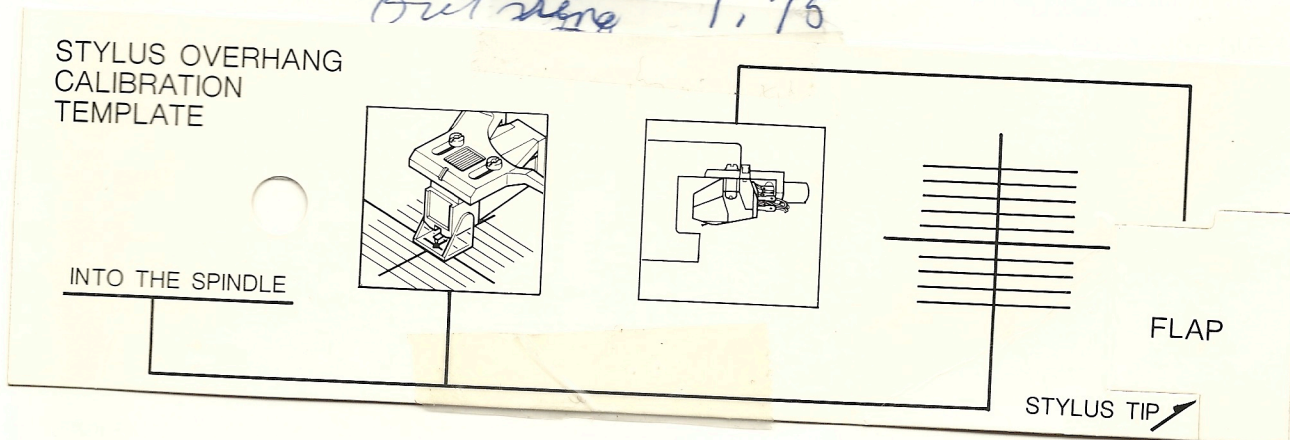
Because KYOCERA continually strives to improve its products, specifications and features are subject to change without notice

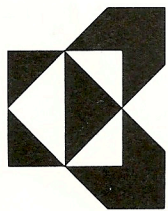
Servicing Information

Should your Kyocera product need repair, please contact your authorized Kyocera dealer or the following directly.

KYOCERA International Inc.
Service Center:
7 Powder Horn Drive, Warren NJ 07060-0227
Telephone: 201-560-0060

Inner 1.49
Outer wire 1.75





KYOCERA

KYOCERA International Inc.
7 Powder Horn Drive, Warren NJ 07060-0227
Telephone: 201-560-0060