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OPERATING INSTRUCTIONS

TWO-SPEED AUTO^{UP}_{STOP}/MANUAL TURNTABLE

SR-2050C



Sansui

SANSUI ELECTRIC COMPANY LIMITED

Thank you for selecting the Sansui SR-2050C Two-Speed Auto Up-Stop/Manual Turntable. In doing so, we feel you've made an excellent choice, one that promises you many years of rich musical enjoyment.

As an audio-only specialist, Sansui is recognized worldwide for the unsurpassed quality of its products, be they turntables, stereo receivers, speaker system or headphone sets, and takes the greatest measures to merit and maintain this reputation.

The SR-2050C is no exception. We have not overlooked a single detail in bringing it to you in perfect operating condition. Featuring the oil-damped delay-motion lifter and automatic after-play arm lift and shut-off, the SR-2050C eliminates all danger of accidental damage to the stylus or records through the manual handling.

It is now up to you to assemble the turntable properly and to keep it working perfectly. This manual has been prepared to help you do just that. Please read it carefully.

Learn how to assemble, balance and operate the turntable first. You'll then be better prepared to enjoy the world's highest standards of audio reproduction.

SR-2050 TURNTABLE		
The Sansui SR-2050 turntable is available in three models as given in the chart below:		
MODEL	BASE & DUST COVER	CARTRIDGE
SR-2050C	○	○
SR-2050E	○	—
SR-2050K	—	—
All the models are basically same. The operating instructions for the SR-2050C are all applicable to two other models.		

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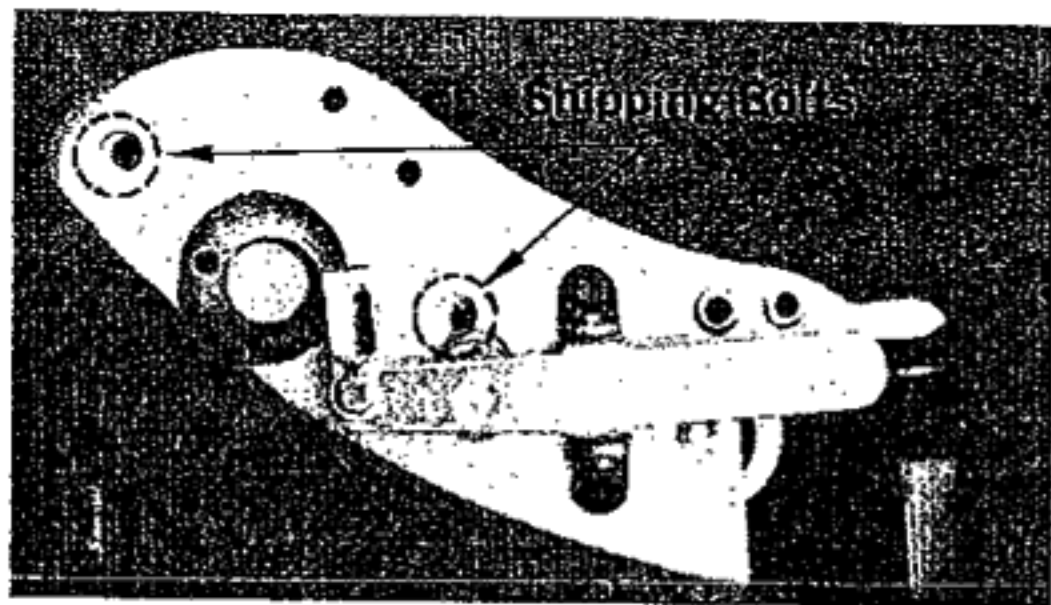


METHOD OF ASSEMBLY

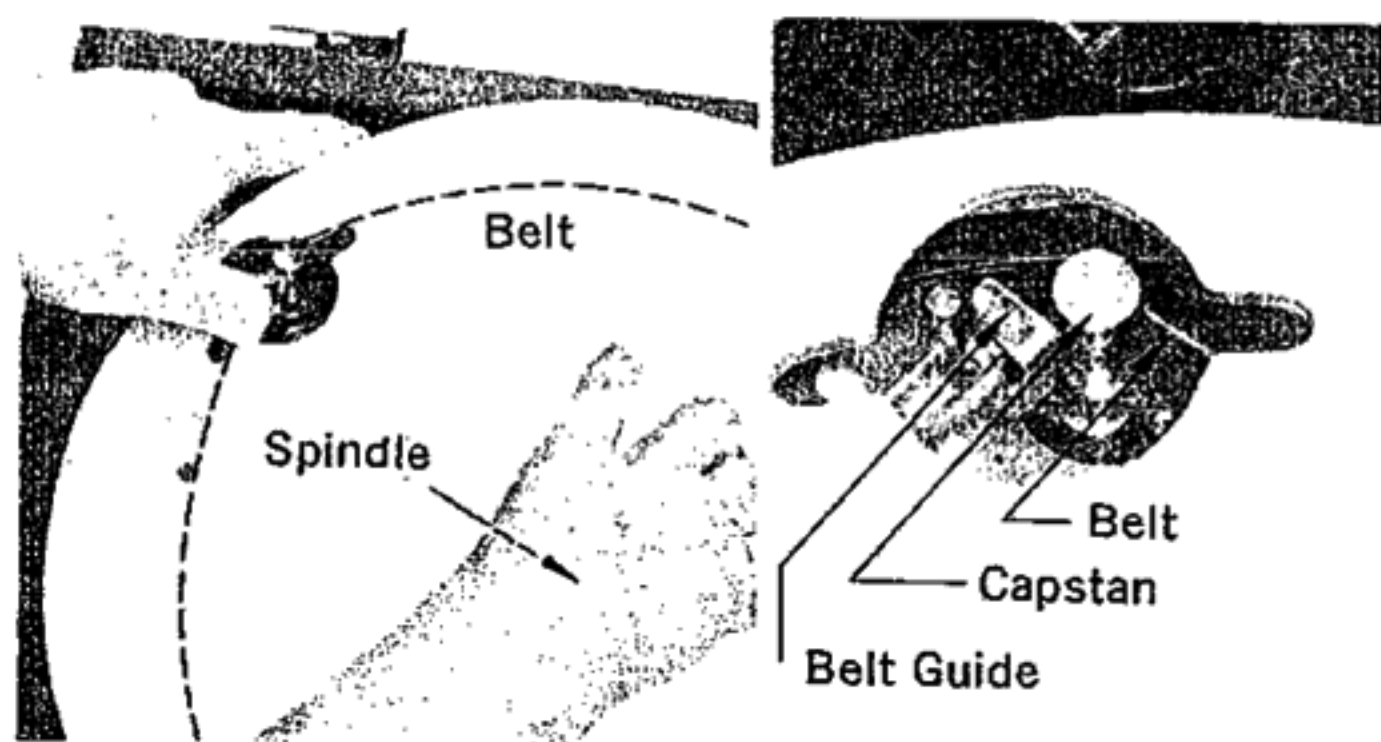
The SR-2050C is a highly precise and accurate instrument. To protect its delicate parts from jarring and shock during shipment, special precautions have been taken. Those parts which call for the utmost accuracy, and those which are heavy have been packaged separately for shipment. It is necessary to assemble these parts before the turntable is ready for use.

Turntable and Belt

1. For safety reason, your Sansui record player is shipped with the turntable mounting board, motor and base fastened together by temporary bolts. Before operation, be sure to remove the two red-painted shipping bolts (see Photo below) to unlock the motor from the turntable mounting board and then the other two red shipping bolts (Page 5) to unlock the turntable mounting board from the base.



2. Depress the Speed Selector switch marked 33 and place the turntable on the spindle while holding the belt with the thumb as illustrated below:



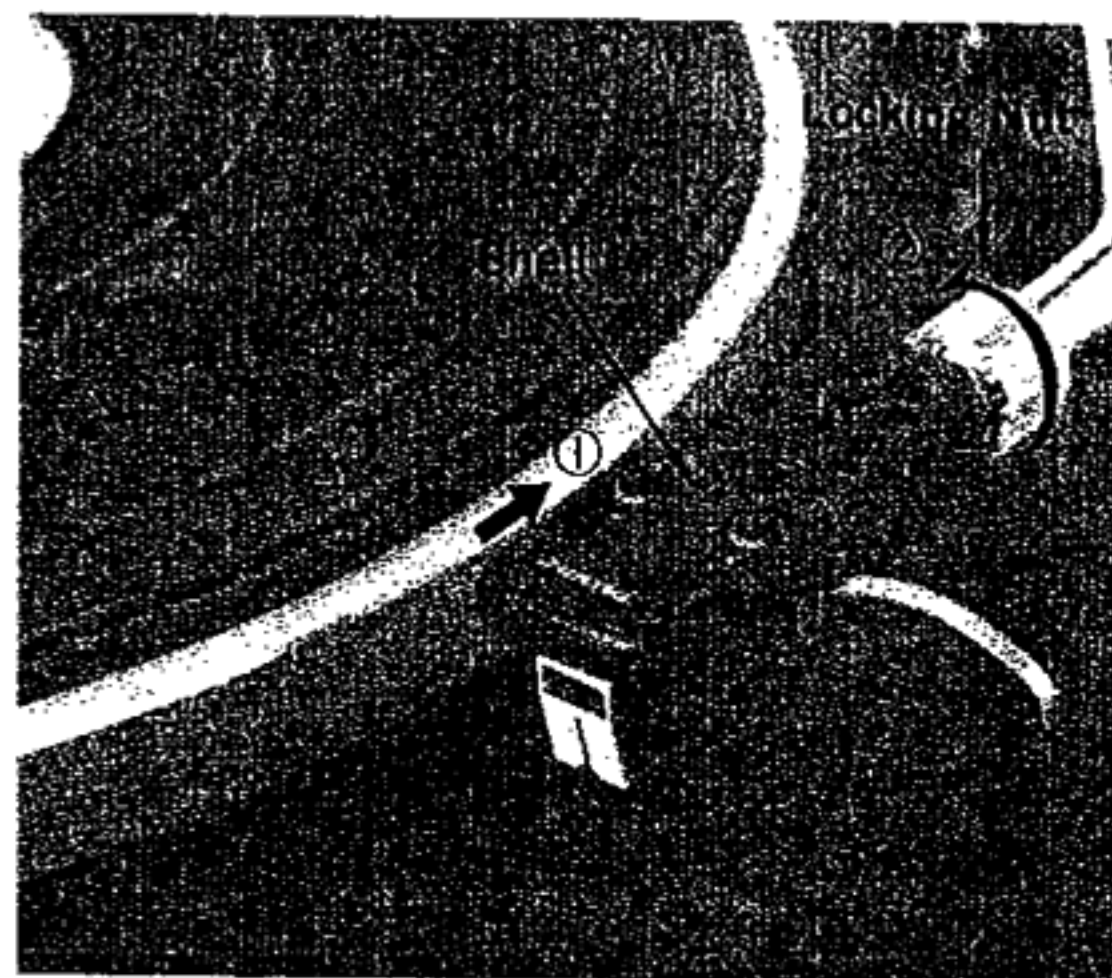
Loop the belt around the capstan, making sure it passes through the center of the belt guide.

3. Place the rubber mat on the turntable.

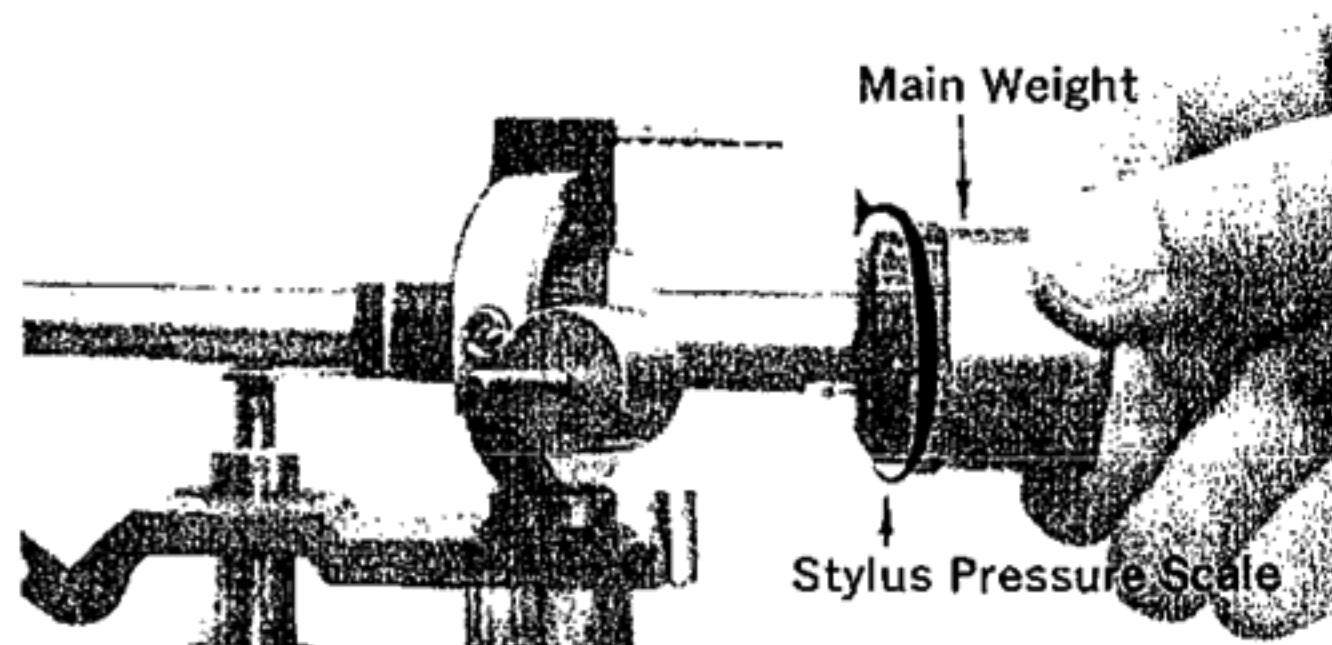
Tonearm

1. Remove the ribbon tapes from both arm and lateral weight.

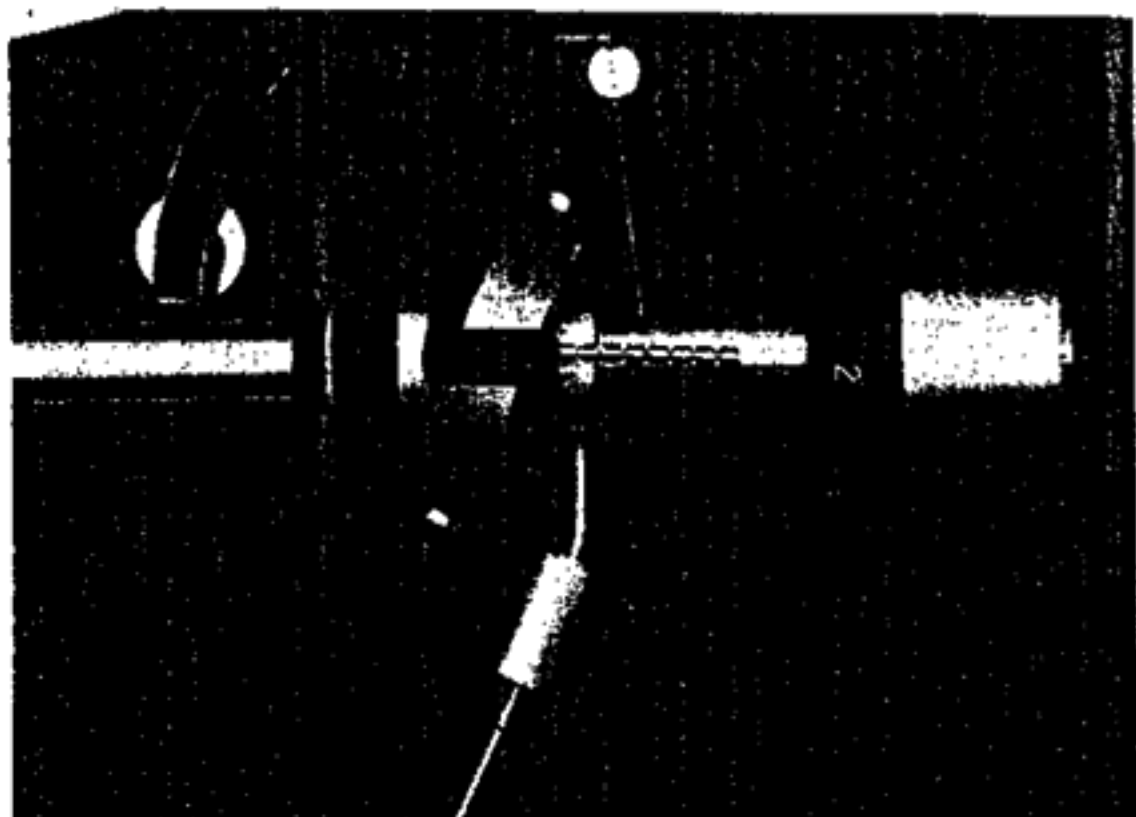
2. Insert the shell (supplied) into the connector at the end of the arm and, pushing it gently in the direction of the arrow ①, turn the locking nut in the direction of the arrow ② to secure it in place. Don't remove the stylus guard from the cartridge while fitting the shell.



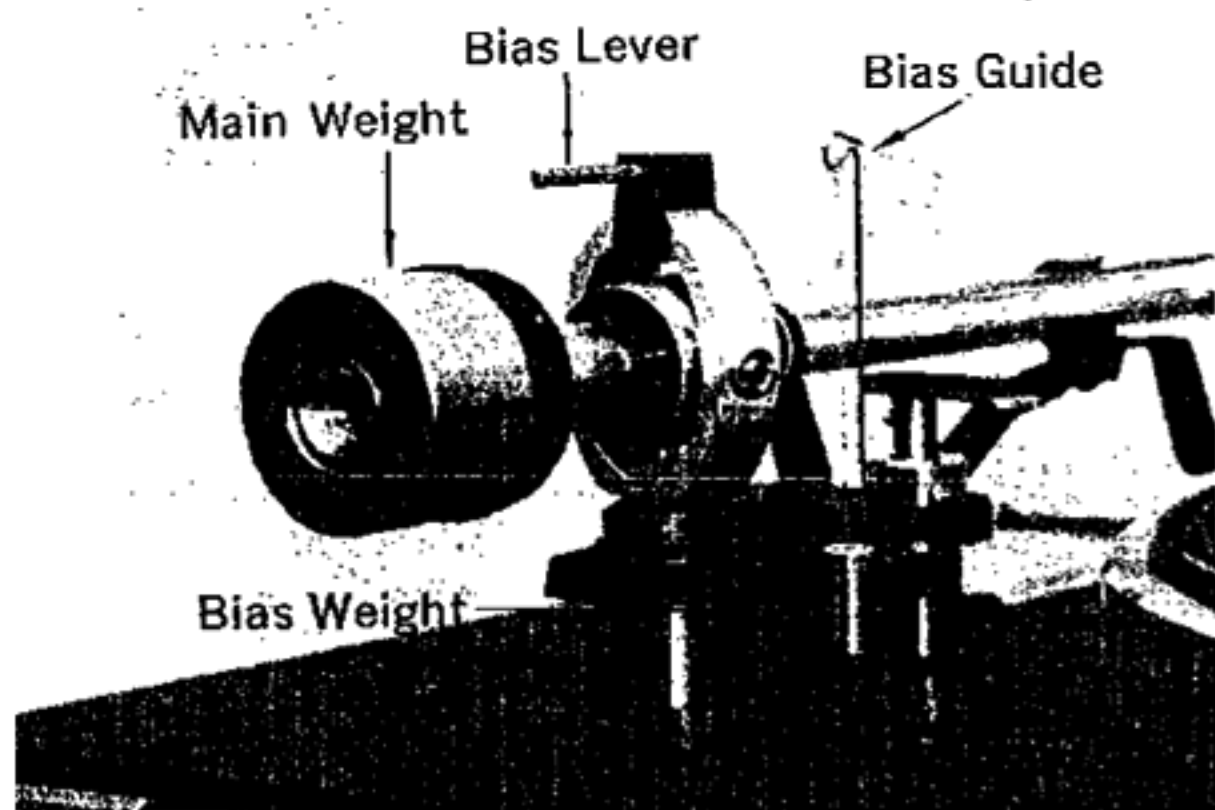
3. Attach the main weight over the rear end of the arm and push it into place. It would be easier to fit the weight while turning it in the direction of the arrow.



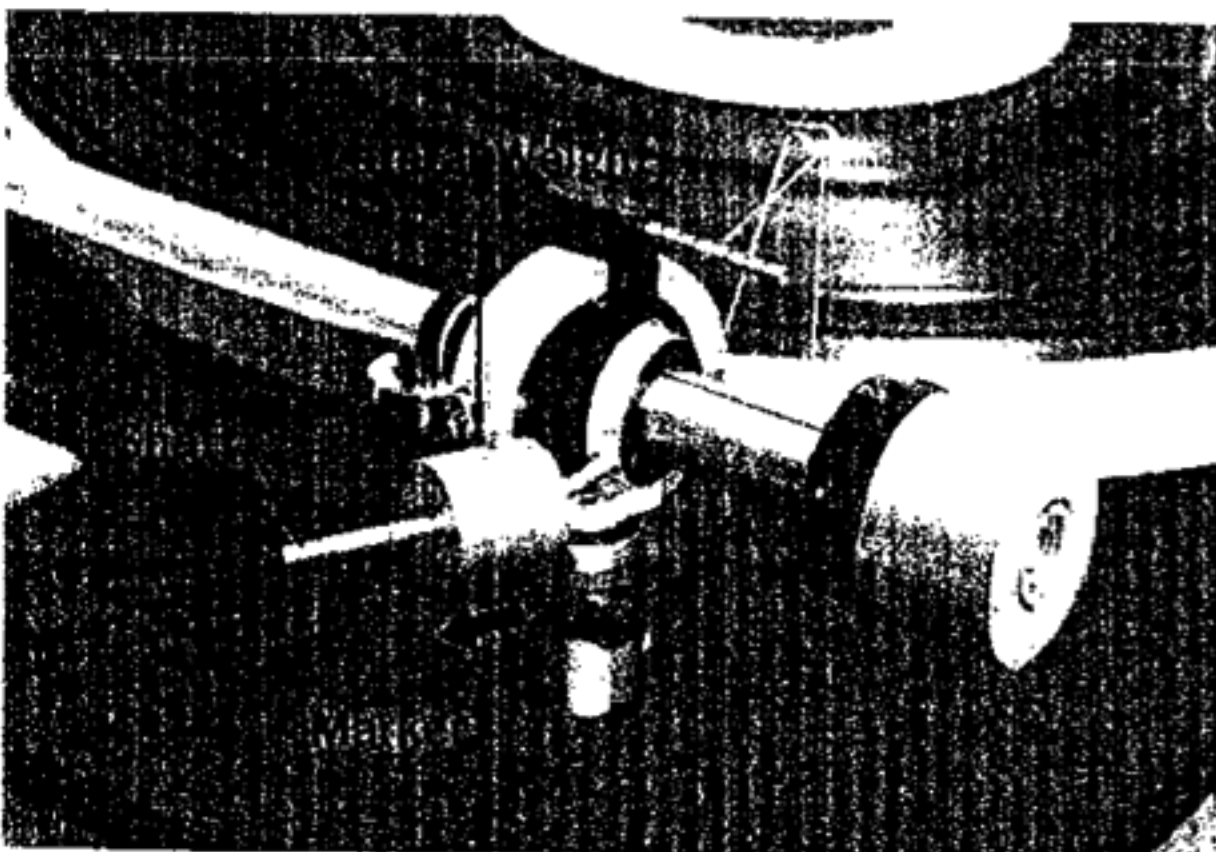
4. Adjust the stylus pressure as indicated on page 8.
8. The correct stylus pressure 2 grams.



5. Thread the loop of the bias weight over the bias lever and drop the thread into the bias guide so the weight hangs freely. For use with the cartridge provided, position the loop in the fourth groove (red) from the arm pivot.

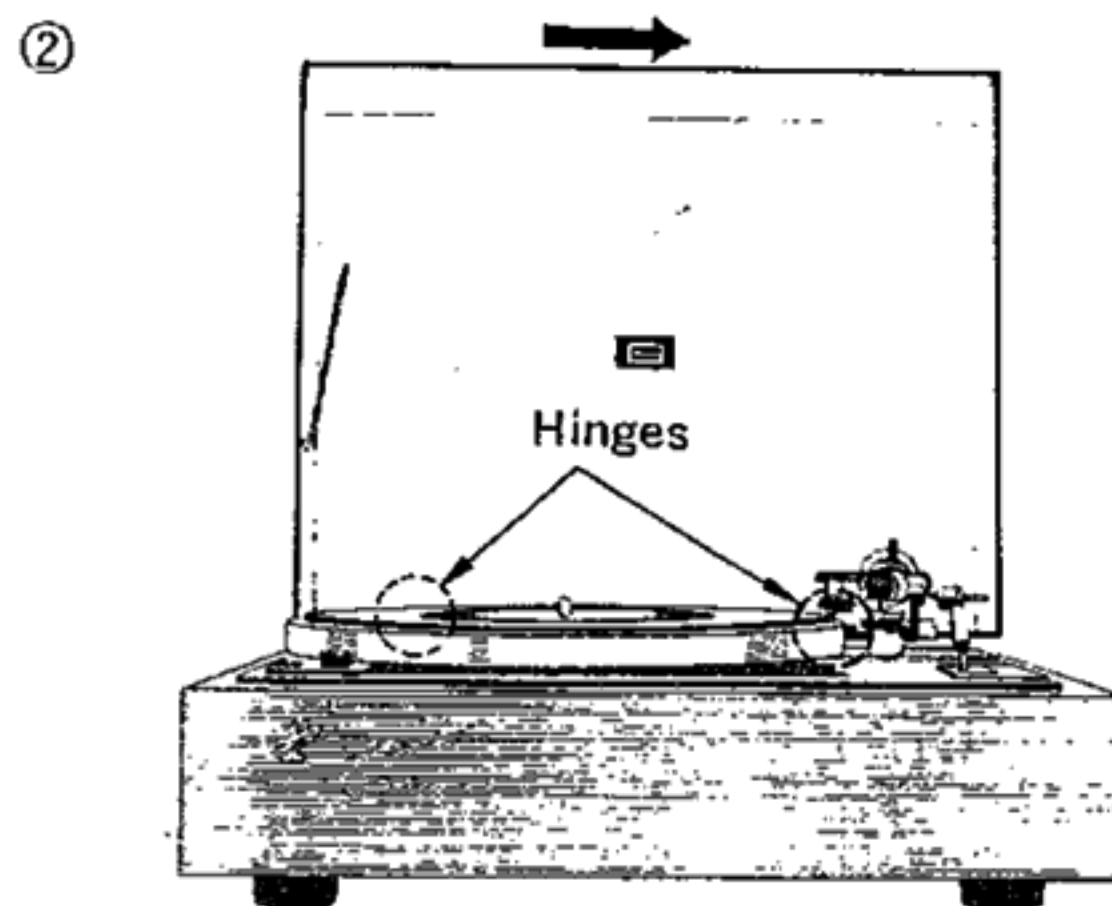
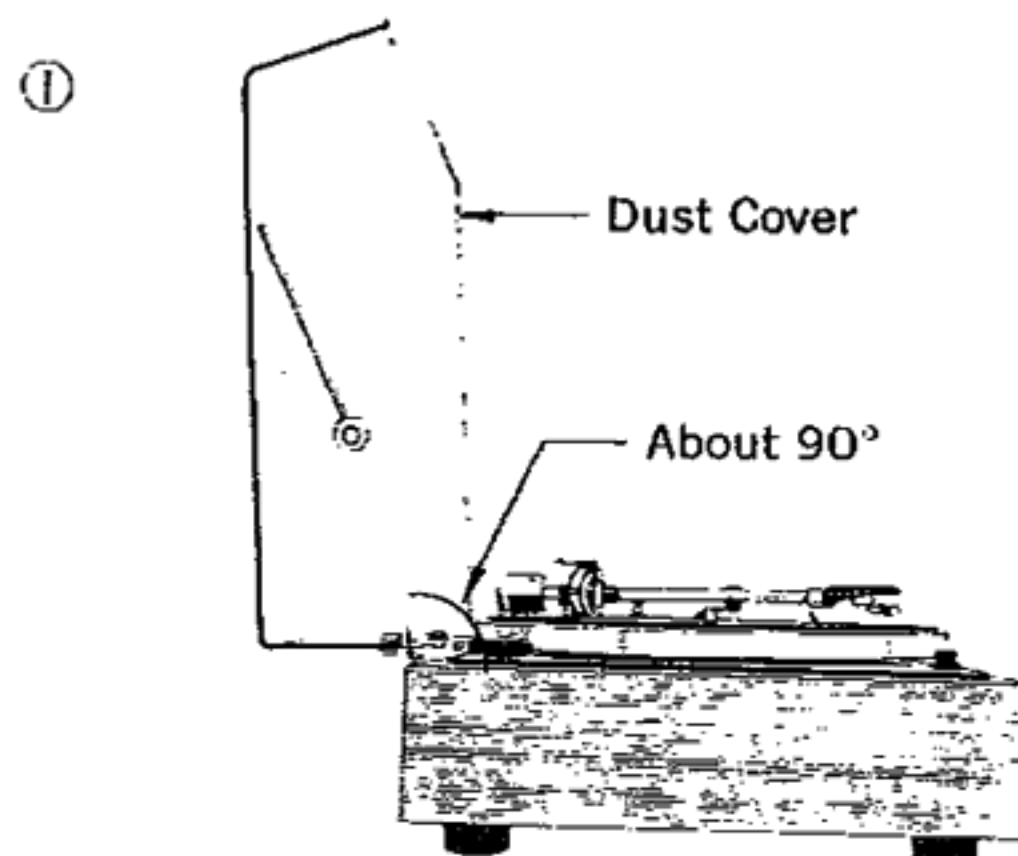


6. Slide the lateral weight to the maker on the shaft.



Dust Cover

Position the dust cover as illustrated below; slightly insert the left hinge pin (when viewed from the front) of the base into the hole in the left metal plate of the dust cover, and then the right hinge pin into the hole in the right metal plate, and move the dust cover in the direction of the arrow until it stops. The dust cover is designed to be detachable only when it is opened to the fullest (about 90°).



TERMS AND FUNCTION OF PARTS

Speed Selector Switches

These push-button switches are used to select the turntable speed for $33\frac{1}{3}$ and 45 rpm. First, turn the control lever to its ON or PLAY position, then depress one or the other to change the turntable speed as required.

Control Lever

OFF: With the lever in this position, power to the turntable is shut off and the turntable speed cannot be changed to protect the belt. When all record playing has been completed, be sure to return the lever to this position.

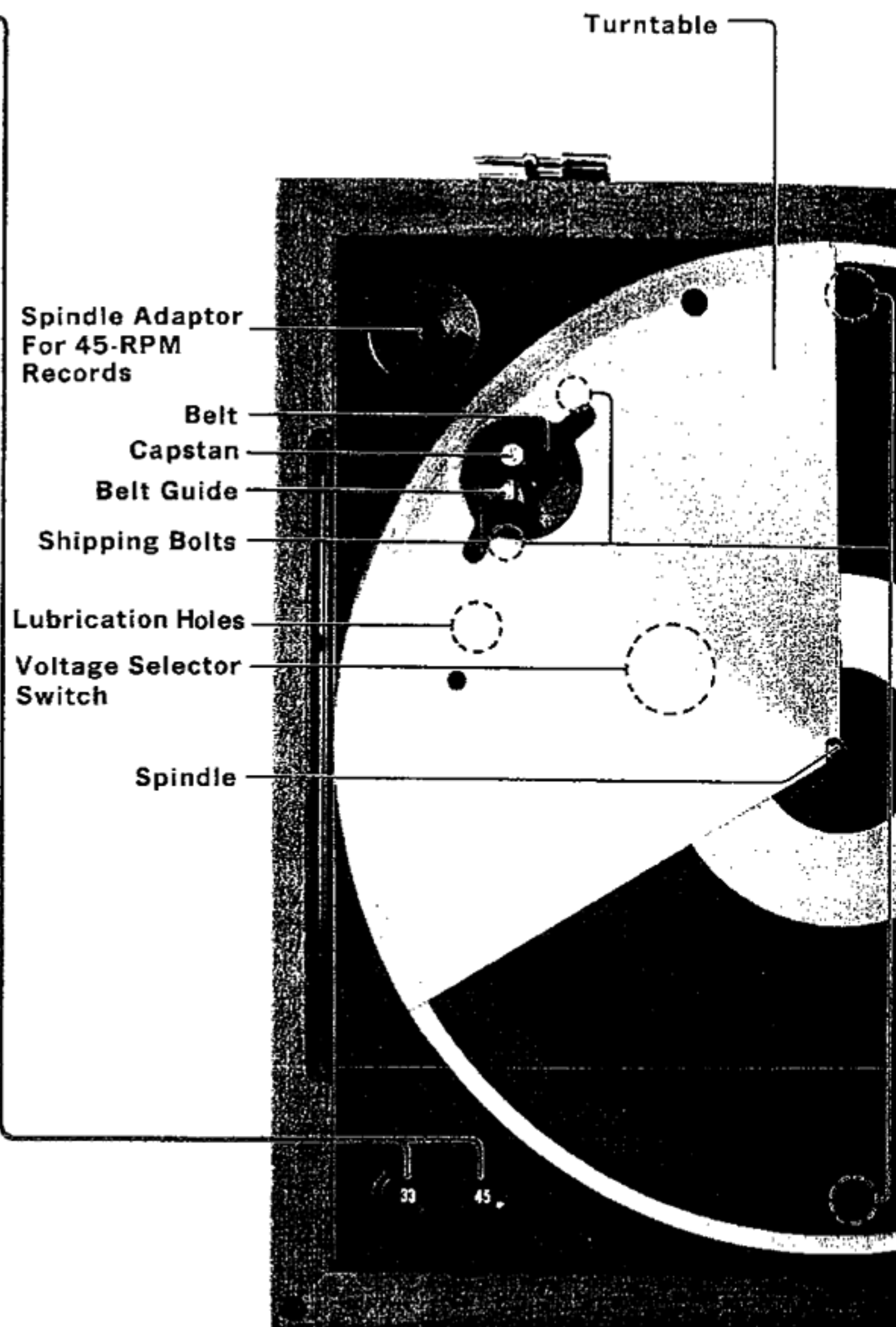
ON: Power is applied to the set and the turntable starts rotating. Use this position to lift the arm from the record after or during play. When it is necessary to change turntable speed, the lever should also be in this position.

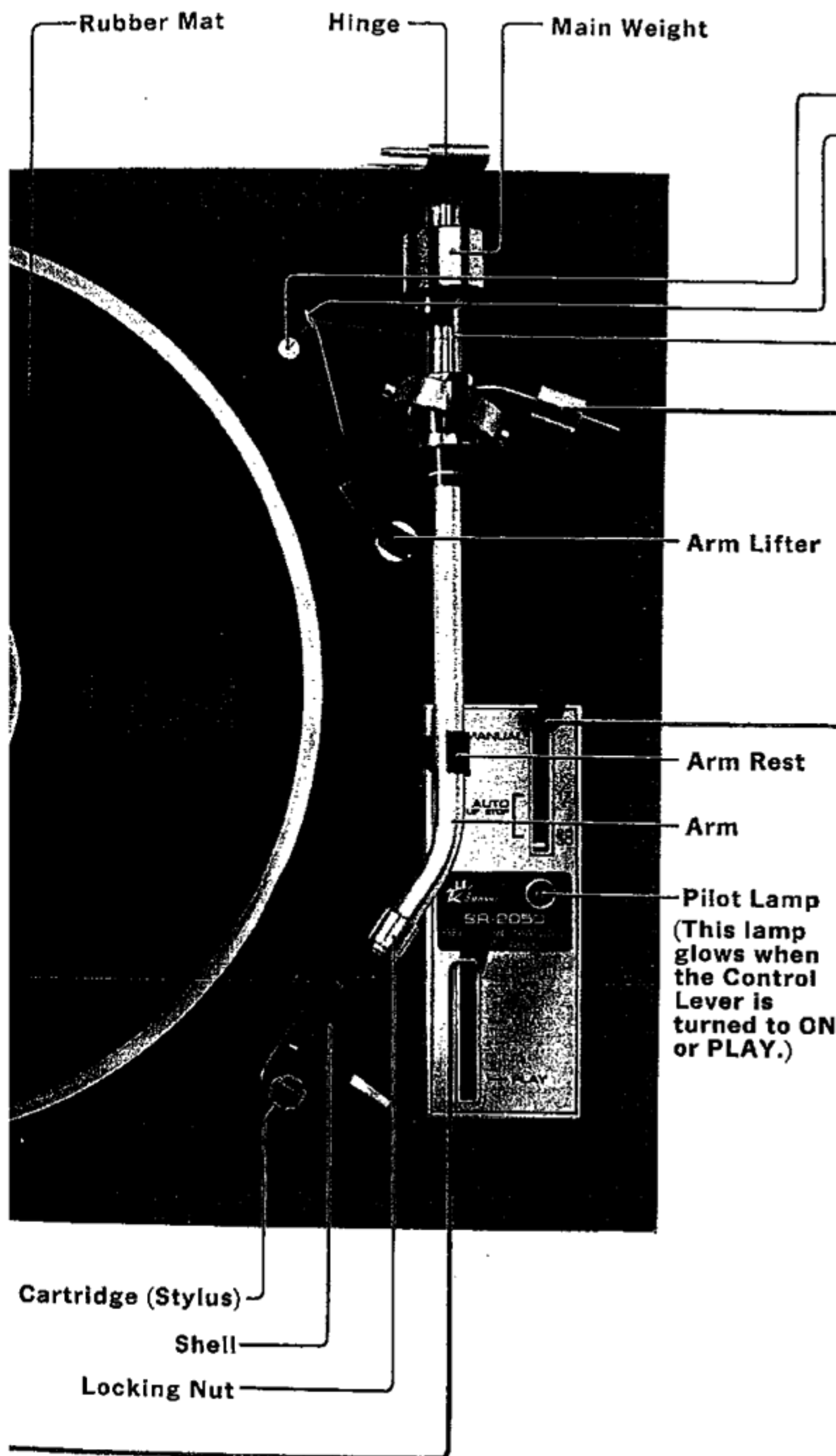
PLAY: Use this position to lower the arm gently to record.

Note: If the Selector Lever is in the AUTO UP-STOP position, the Control Lever is automatically returned from PLAY to OFF after play.

Important:

1. If the arm is inadequately moved back after automatic arm lift and shut-off after play, malfunction may be caused. In this case, move the arm outward another half inch. The unit is never damaged by doing this.
2. The Selector Lever must be set to the correct position depending on the size of the record used. If not, the unit may operate improperly.
3. If a sonosheet or other non-standardized records are used, the Auto Up-Stop device may not function properly.



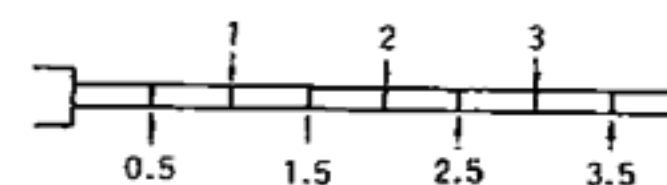


Inside Force Canceler

Bias Weight
Bias Guide
Bias Lever

The inside force by which the arm is pulled to the turntable center is undesirable for stereo, causing the stylus to favor one channel. This canceler restores balance by an opposing force proportional to the stylus pressure. Each groove of the bias lever represents 0.5 grams. Position the loop of the bias weight in the groove corresponding to the stylus pressure being used.

Bias Lever (gr.)



Lateral Weight

To adjust the lateral balance of the arm, move the lateral weight in the direction of the arrows until the arm stops swinging over one way or the other, while raising the rear bottom edge (hinged side) of the SR-2050C about four inches.

Selector Lever

MANUAL: After play, it is necessary to lift the arm from the record and to shut off the unit by the use of the Control Lever.

AUTO UP-STOP: As soon as the stylus reaches the finishing groove after play, the arm is raised from the record and the unit is switched off automatically. At the same time, the Control Lever is automatically returned to its OFF position. To start play again, move the arm to the desired portion of the record by hand and set the stylus down on the record by means of the Control Lever.

For use with 17 cm (7") records, set the Selector Lever to the position marked 17. For use with 25 cm (10") or 30 cm (12") records, set it to the position marked $\frac{25}{30}$.

CONNECTION/OPERATION

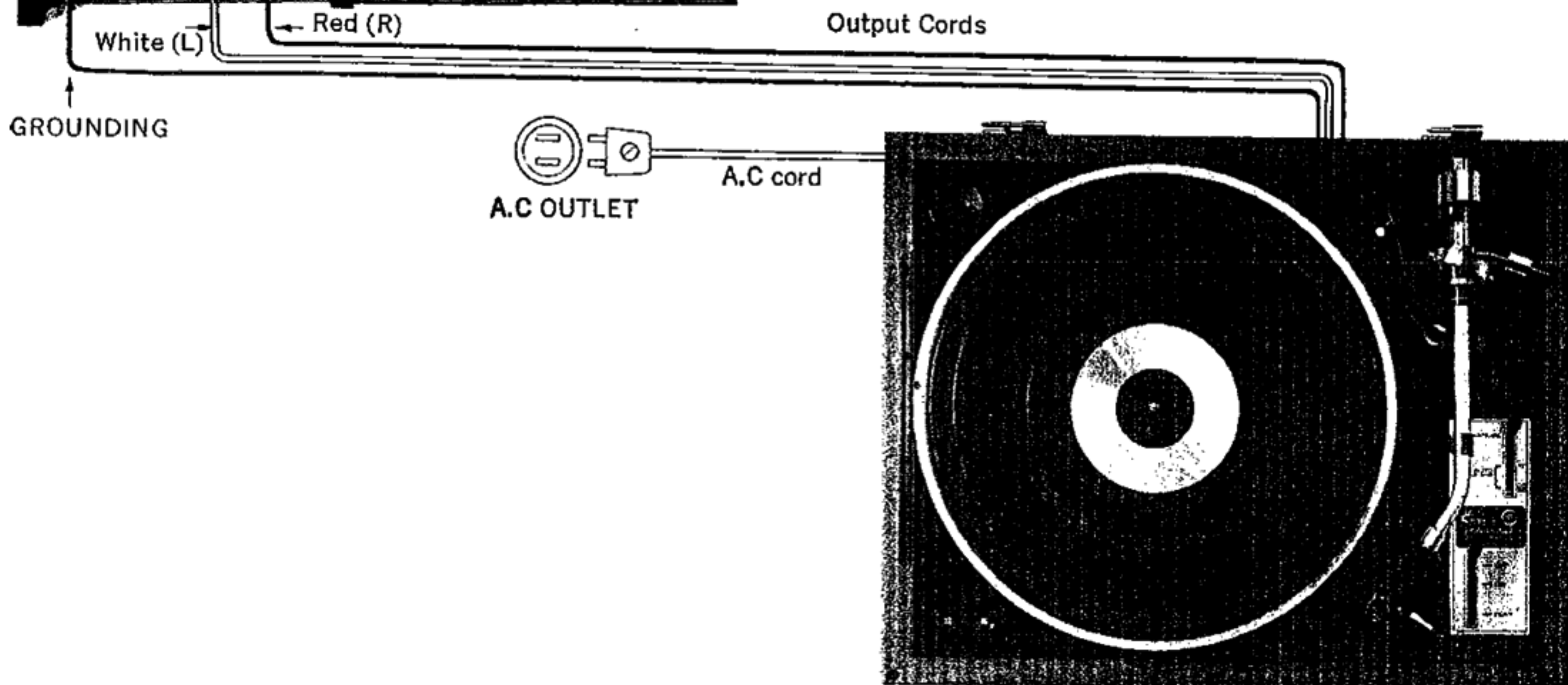
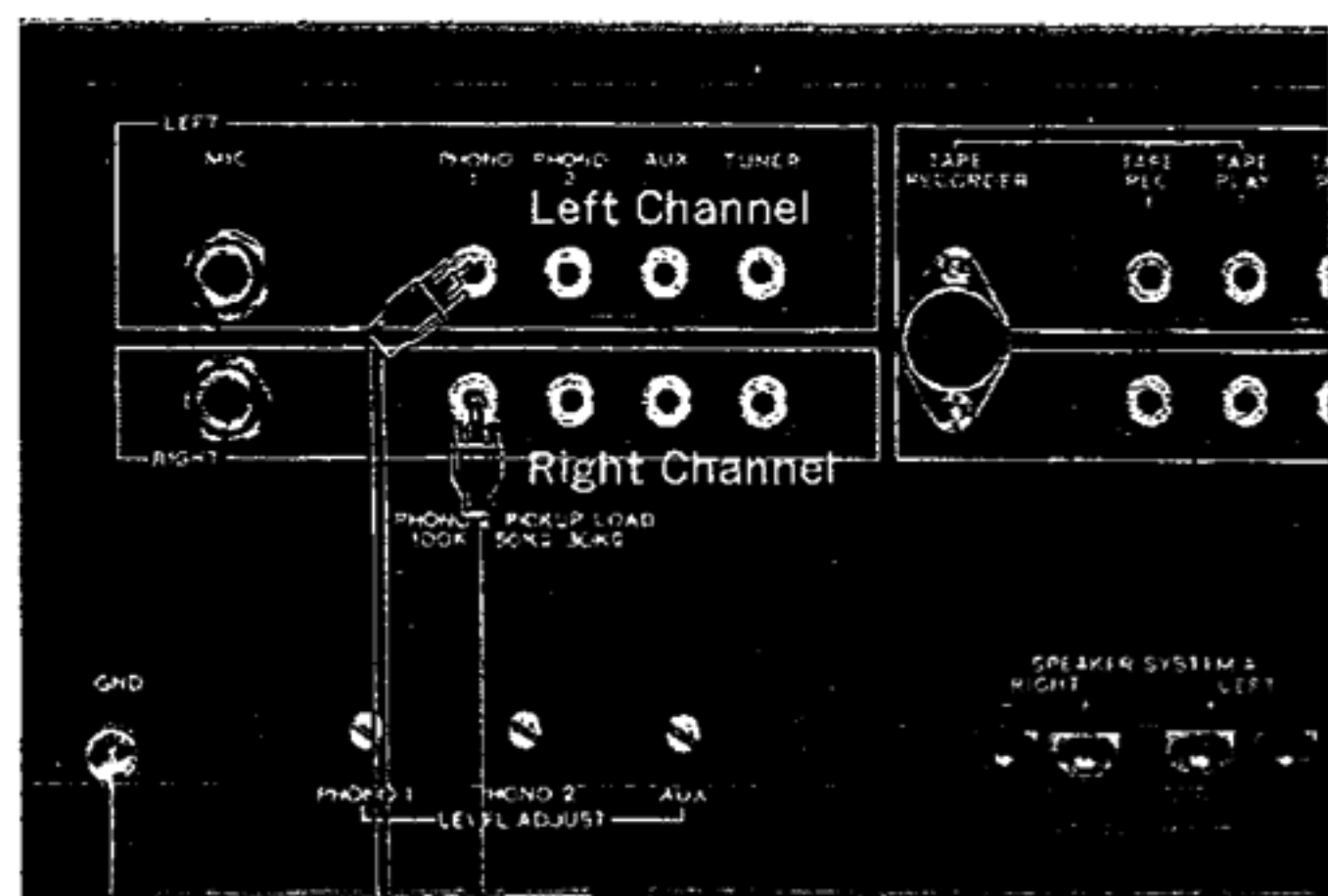
Connection to Amplifier

Insert the red plug into the right channel PHONO input of the stereo amplifier and the white plug into the left. Connect the ground terminal of the turntable to that of the amplifier.

Connection to A.C. Outlet

Make sure the control lever is in its OFF position and plug the line cord into a wall outlet or outlet on the rear of the amplifier.

Rear Panel of Stereo Control Amplifier



Operation

To play a record with the Selector Lever in its MANUAL position, proceed as follows (If the Selector Lever is set to its AUTO UP-STOP position, refer to the section entitled 'Selector Lever' on page 6):

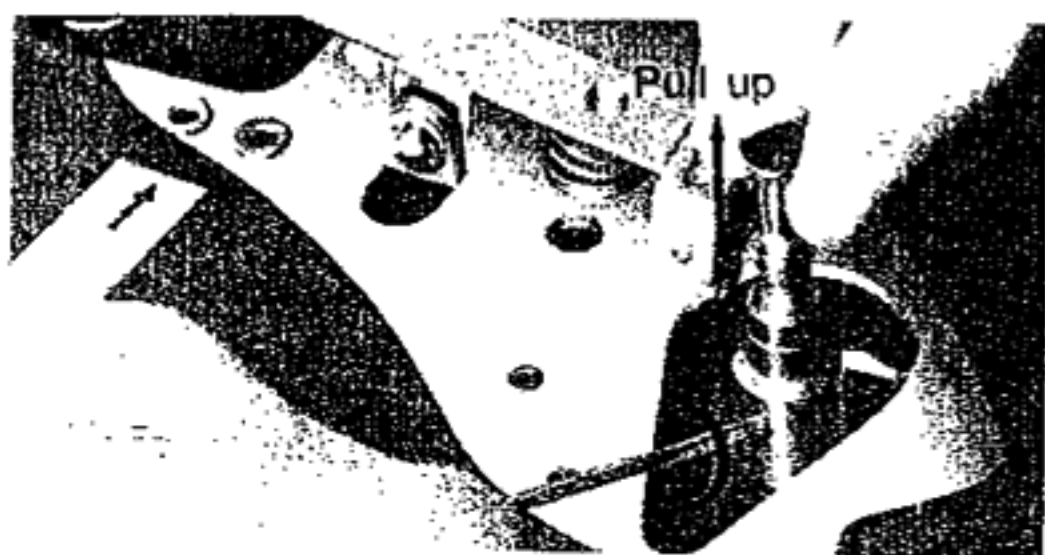
1. Place a record on the turntable.
2. Set the control lever to the ON position.
3. Push the speed selector switch corresponding to the rpm of the record being used.
4. Remove the stylus guard from the cartridge.
5. Move the arm out of its rest and sight the stylus over the groove selected.
6. Set the control lever to the PLAY position and the arm will be gently lowered to the record.
7. When playing has been completed or when you want to interrupt play during the operation, reset the control lever to the ON position, and the arm will be lifted from the record.
8. Return the arm to its rest, put the stylus guard back on and move the control lever to its OFF position.

MAINTENANCE

Changing Capstans

This turntable's power source frequency has been properly adjusted to your area by Sansui prior to shipment. If you should move to a country or an area where electrical cycles change from 50 to 60 or vice versa, an adjustment in the turntable's speed is necessary. This is easily accomplished by changing the capstan. An accessory capstan is provided.

1. Remove the belt from the capstan and take off the platter. Loosen the capstan's setscrew with a small screwdriver and slowly pull the capstan out.



2. Insert the new capstan on the motor shaft and tighten the setscrew firmly. The capstan must be adjusted so that the belt is always in the center of the belt guide and the belt still moves easily on the capstan when the Speed Change-Over buttons are pressed.

NOTE: The Speed Change-Over buttons cannot be activated unless the Control Lever is in the ON and PLAY position.

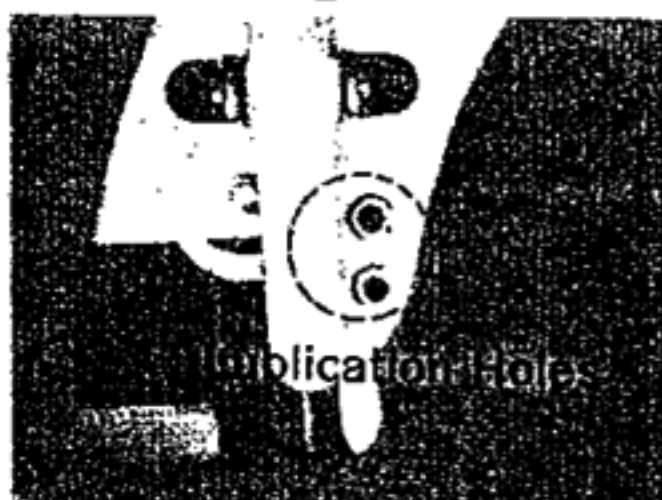
3. Mount the platter again and recover with rubber mat.

Oiling

Although the need for oiling depends on usage, oiling should be performed once a year (every 1000 hours)

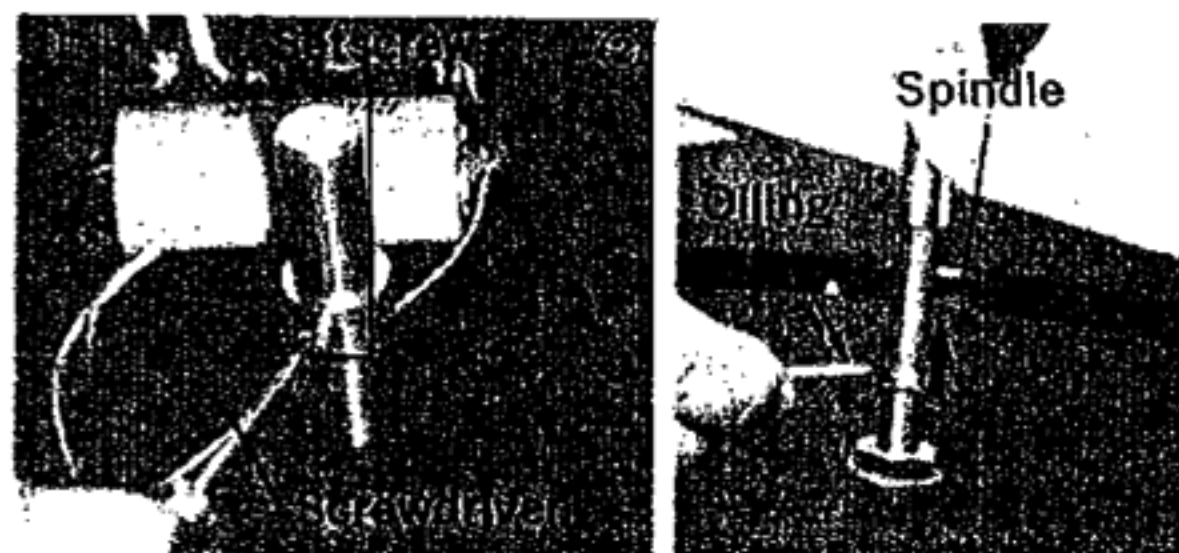
1. Oiling the Motor

Remove the platter and apply a few drops of oil into the lubrication hole as indicated in the photograph. Be careful that the oil does not stain the belt or the capstan. In case of staining, it is necessary to immediately clean the parts thoroughly with benzine or carbon tetrachloride.



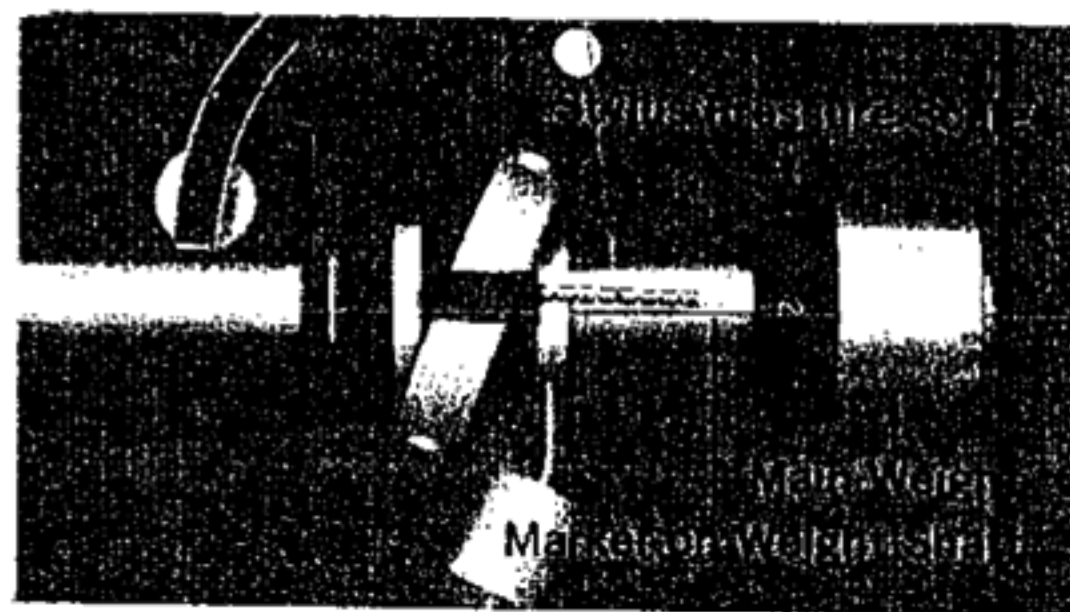
2. Oiling the Turntable Spindle

Remove the bottom board from the cabinet, loosen a setscrew (photo 1) in the bearing section of the turntable spindle behind the mounting board, pull the spindle up, and apply one or two drops of the supplied oil onto it (photo 2).



Adjusting the Stylus Pressure

1. Remove the stylus guard from the cartridge and set the Control Lever to PLAY.
2. Remove the arm from its rest and move the main weight back and forth until the arm balances. Then move the stylus pressure scale only so that the 0 mark on it coincides with the marker on the weight shaft.
3. By turning the main weight counterclockwise (as viewed from the front), position it so that the number (specified stylus pressure of the cartridge used) on the stylus pressure scale coincides with the marker on the weight shaft. For use with the cartridge accompanying the SR-2050C, the number is equal to 2.



Howling

When abnormal howling is heard during play, it is often because the turntable has been placed too close to the speaker boxes and the cartridge picks up speaker vibrations. To insure the best performance, never place the turntable directly on a speaker box.

MAINTENANCE

Belt

Never hold the turntable while it is rotating. Since the belt is precision-finished to insure accurate speeds, it will slip off the turntable and can be deformed in some instances.

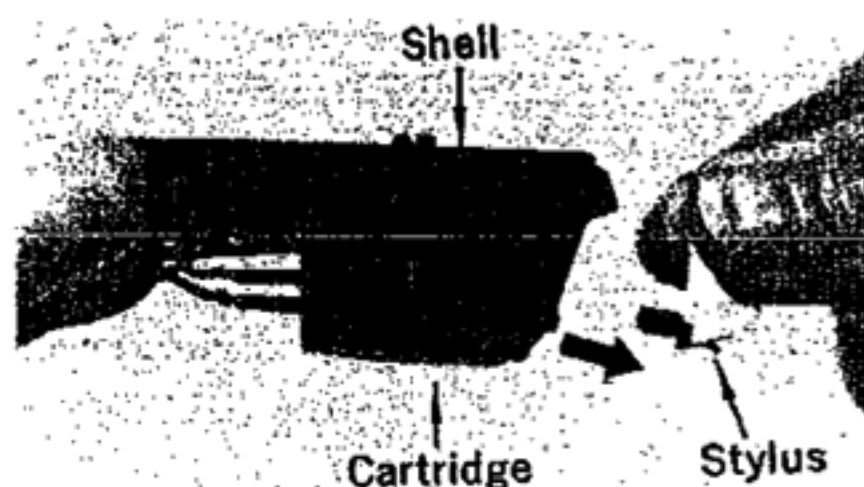
Keep the Stylus Clean

Since tone quality deteriorates considerably when dust and dirt adhere to the stylus and/or cartridge, it should be frequently cleaned with a soft brush. The cartridge may be damaged if the stylus is touched or jarred. Never forget to cover the stylus whenever it is not being used for play.

When the Stylus is Worn

When a distorted or a shaky sound is heard during play, either the record is damaged or the stylus has become worn. The SR-2050C is equipped with a diamond stylus good for about 1,500 hours (approximately 2 years if used 2 hours daily). If the symptoms described above are heard and the stylus appears to be worn, the stylus unit must be replaced.

The stylus (Sansui SN-31) is available either from the place of original purchase or any Sansui dealer.



Induced Humming

The highly efficient moving magnet type cartridge used by the SR-2050C is susceptible to the influences of the nearby electromagnetic field which, if too strong, produces humming. Therefore, care should be taken not to produce such noise when placing motor-driven appliances such as sewing machines and fans, or products utilizing large transformers near the turntable.

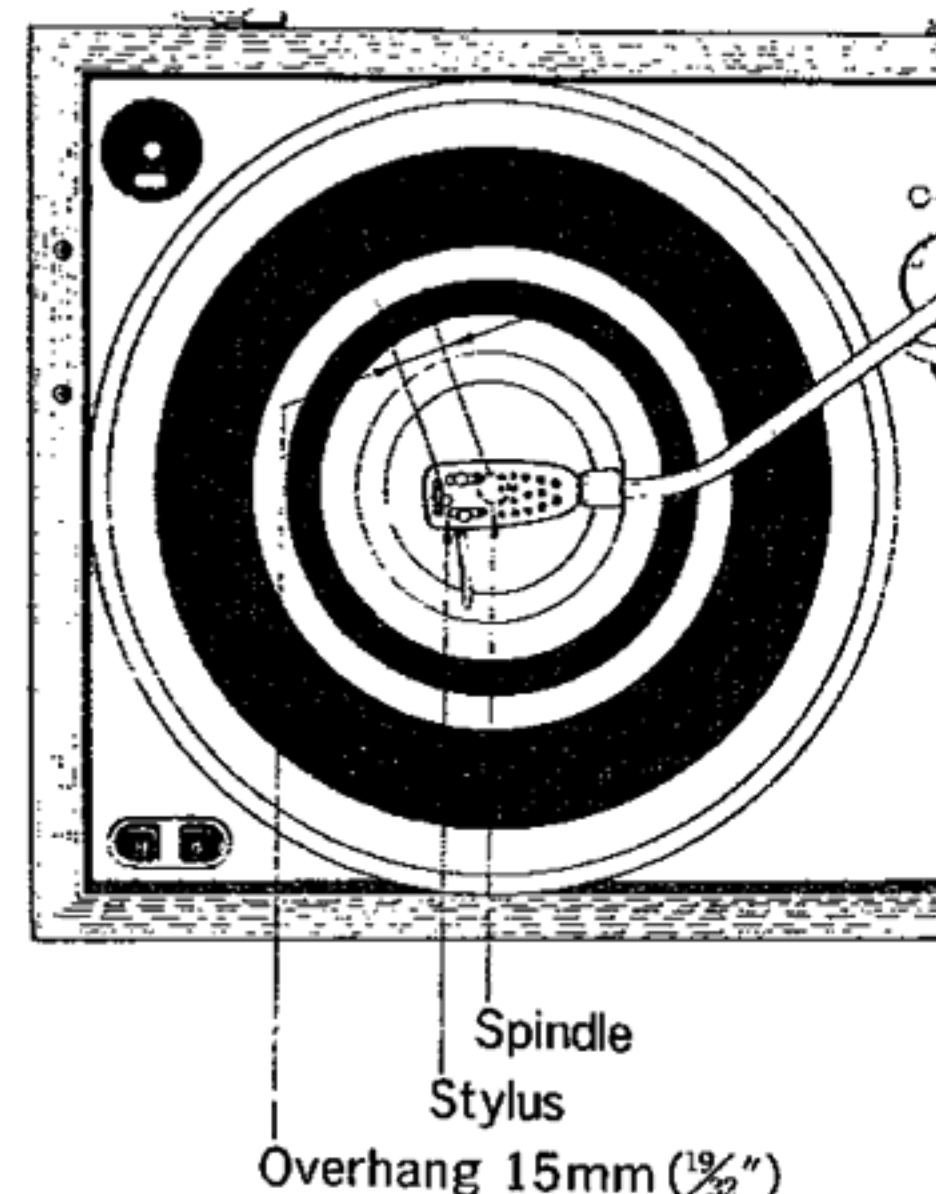
When connecting the turntable to an amplifier, it is safer to place the turntable opposite the amplifier's transformer side to avoid influences from the amplifier's power source.

Replacing the Cartridge

When the cartridge is replaced, the new one must be adjusted for proper overhang. The overhang is determined by the distance between the stylus and spindle when the arm is moved closest to the center of the turntable. The correct overhang for the SR-2050C's arm is 15 mm ($19/32$ ").

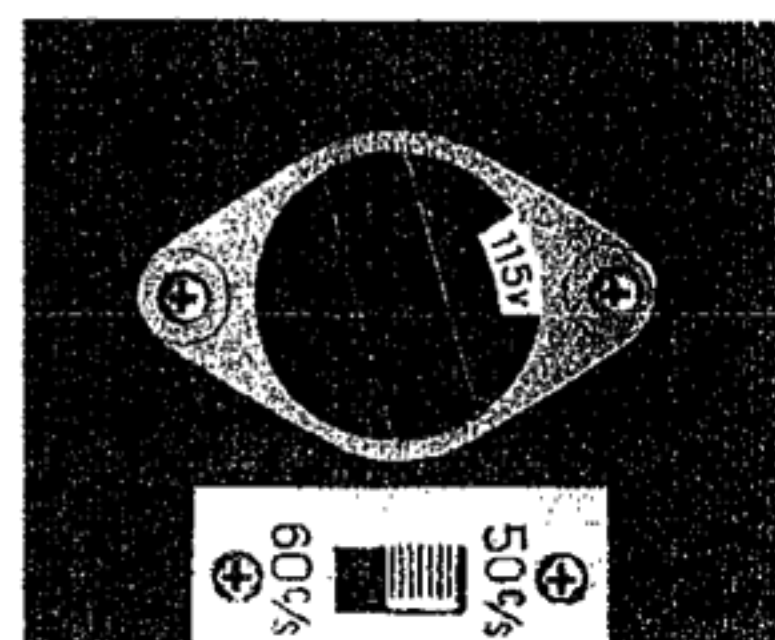
Fit the pin-jacks to the cartridge terminals as follows:

WHITE to LEFT channel ⊕
BLUE to LEFT ground ⊖
RED to RIGHT channel ⊕
GREEN to RIGHT ground ⊖



Voltage Selector Socket

The SR-2050C can be used at six different voltage: 100V, 115V, 130V, 200V, 230V and 250 V. Be careful not to switch to the wrong position.



45-rpm Spindle Adaptor

The 45-rpm records have a large center hole, $1\frac{1}{2}$ inches in diameter. In order to play them on the regular spindle of the SR-2050C, it is necessary to use an adaptor (supplied) on the spindle.

SPECIFICATIONS

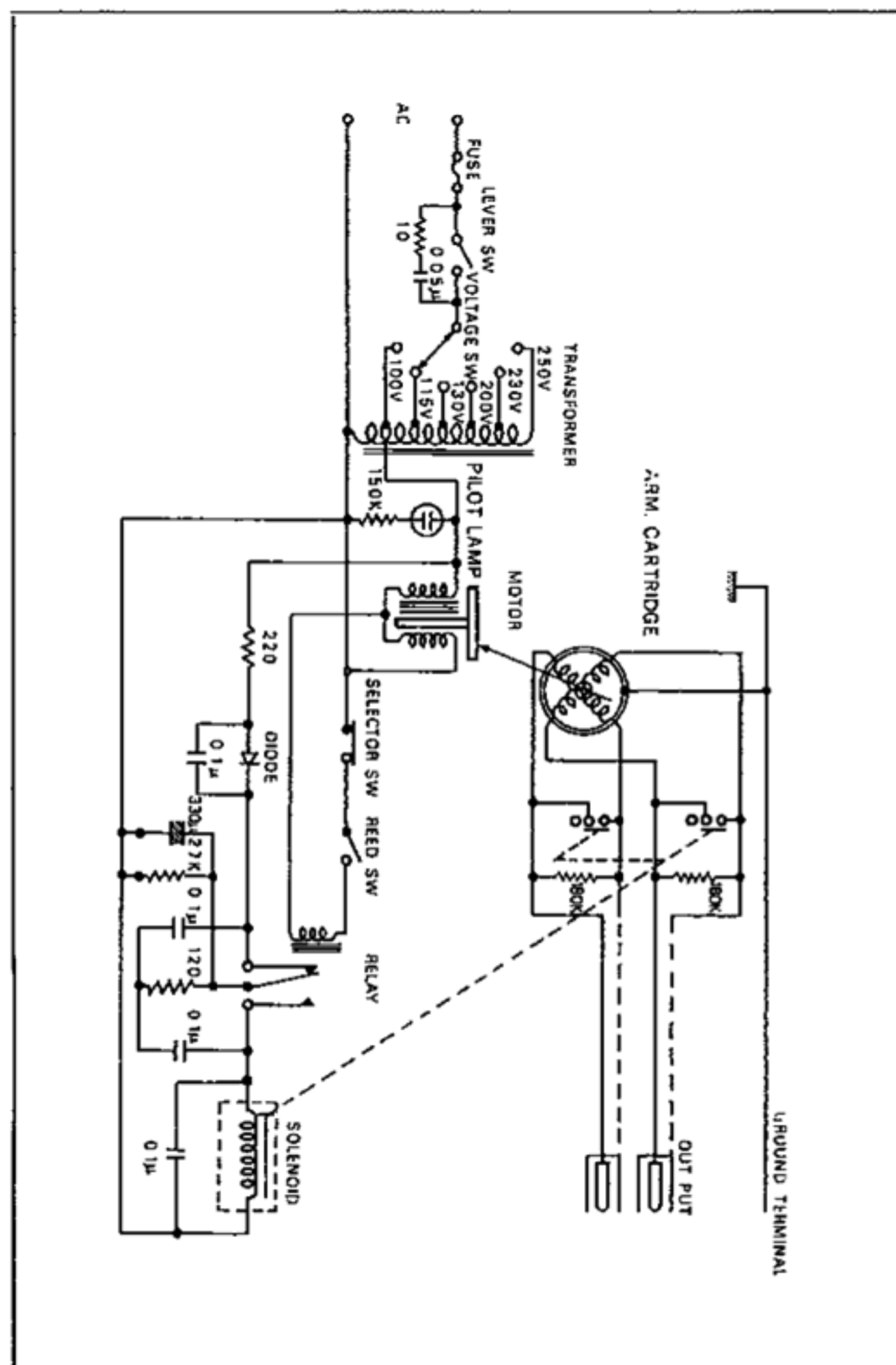
Care of Arm

The arm must be handled with special care because the arm pivot is composed of precision-made parts. Take care not to give a shock to the arm.

Packing Instructions

If you'll need to move the SR-2050C from one place to another, be sure to pack the SR-2050C in the manner reverse to the unpacking procedures.

SCHEMATIC DIAGRAM



TYPE:	2-speed, belt-drive, manual or automatic armlift and shut-off after play
TURNTABLE:	Aluminum alloy diecast, 301mm($\frac{19}{32}$ ") ϕ , 1.2kg, (2.64 lbs.)
MOTOR:	4-pole synchronous motor.
POWER SOURCE:	100V (80~100V) 50/60Hz 115V (101~120V) 50/60Hz 130V (121~140V) 50/60Hz 200V (170~210V) 50/60Hz 230V (211~240V) 50/60Hz 250V (241~260V) 50/60Hz Changeable
RATED SPEEDS:	33 $\frac{1}{3}$ and 45 rpm
SPEED-CHANGE:	Speeds are changed by pushing a speed selector button which shifts the belt.
S/N RATIO:	Better than 40dB.
WOW-FLUTTER:	Less than 0.07 %.
TONARM:	Static-balanced type tubular arm with inside force canceler and lateral balance weight.
ARM LENGTH:	220mm ($8\frac{13}{16}$ ")
OVERHANG:	15mm ($\frac{19}{32}$ ")
CARTRIDGE:	Induced magnet type.
FREQUENCY RESPONSE:	20~20,000Hz.
LOAD IMPEDANCE:	50k Ω
OUTPUT VOLTAGE:	5 mV
CROSSTALK:	more than 25 dB at 1 kHz
STYLUS PRESSURE:	2 gr.
STYLUS COMPLIANCE:	17×10^{-6} cm/dyne.
STYLUS:	0.5 mils diamond stylus.
OTHER FEATURES:	Oil-damped delay-motion arm lifter that is controlled by the Control Lever. Automatic arm lift and shut-off after play
CABINET:	Walnut, open-pore finished. Removable molded acrylic dust cover.
DIMENSIONS:	Width 439mm ($20\frac{1}{2}$ ") Depth 349mm ($14\frac{3}{4}$ ") Height 190mm ($6\frac{9}{16}$ ")
WEIGHT:	9.4kg (20.7 lbs.) with cabinet 7.0kg (15.4 lbs.) with out cabinet

* Manufacturer reserves right to change design and/or specifications without notice for purpose of improvement.



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