SR-838

OPERATING INSTRUCTIONS



• Read this manual before use.



We are grateful for your choice of the Sansui SR-838 stereo turntal. This precision instrument is designed to give you many years of superbhi-fi performance. We suggest that you read through this manual at least once for instructions on correct assembly procedures, connection with other equipment and correct operation procedures.

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- The Model No. and Serial No. of your unit are shown on its t panel.
- Do not lose the Warranty Card that carries your unit's Model No. and Serial No.

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

For the United Kingdom only

Important

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral Brown: Live

If the colours of the wires in the mains lead of this equipment should not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

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

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

Ensure that your equipment is connected correctly. If you are in any doubt, consult a qualified electrician.

For equipment purchased outside the U.K. with a "EUROPEAN" two-pin mains plug, the plug should be removed and connections made in accordance with the above instructions. Ensure also that the equipment is properly adjusted to 240 volts operation. If you are in any doubt, consult a qualified electrician, or our Service Agent in the U.K.

FUNCTIONAL FEATURES

QUARTZ-SERVO system

Since the reference frequency in the servo system is uncannily stable because of the quartz crystal oscillator employed, and since the servo system is coupled with the PLL circuit, the original highly accurate platter rotation constancy is maintained over a long period even when loads vary as groove modulation varies, or when environmental temperatures change. Your unit has a QUARTZ-SERVO OFF position so that you can adjust the speed of the record to whatever pitch you like (up to ±2.5%).

* Electronic brake

As you change the platter speed from 45 rpm to the slower 33 rpm, a built-in electronic brake is set into use, permitting a quick platter speed change.

* Independent tonearm lift mechanism.
It allows you to descend or ascend the tonearm at any desired portion of a record on the platter and at any time.

* Direct-readout tracking-force dial Application of correct and precise tracking-force is facilitated by the easily-read, calibrated ring on the main weight.

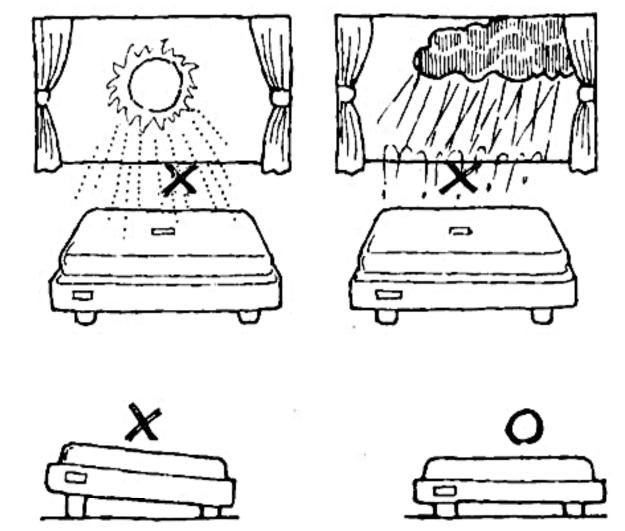
* Anti-skating device

You are assured of stable stylus tracking, free of damaging, unnatural skating force, thanks to this advanced feature.

Provisions for CD-4 playback.

The output cables, supplied with your turntable, are of the low-capacitance type for improved high-frequency response. Simply replace a CD-4† cartridge for the one supplied to play CD-4 q -raphonic disc records.

†TM JVC, Inc.



PRECAUTIONS

Turntable dismantling

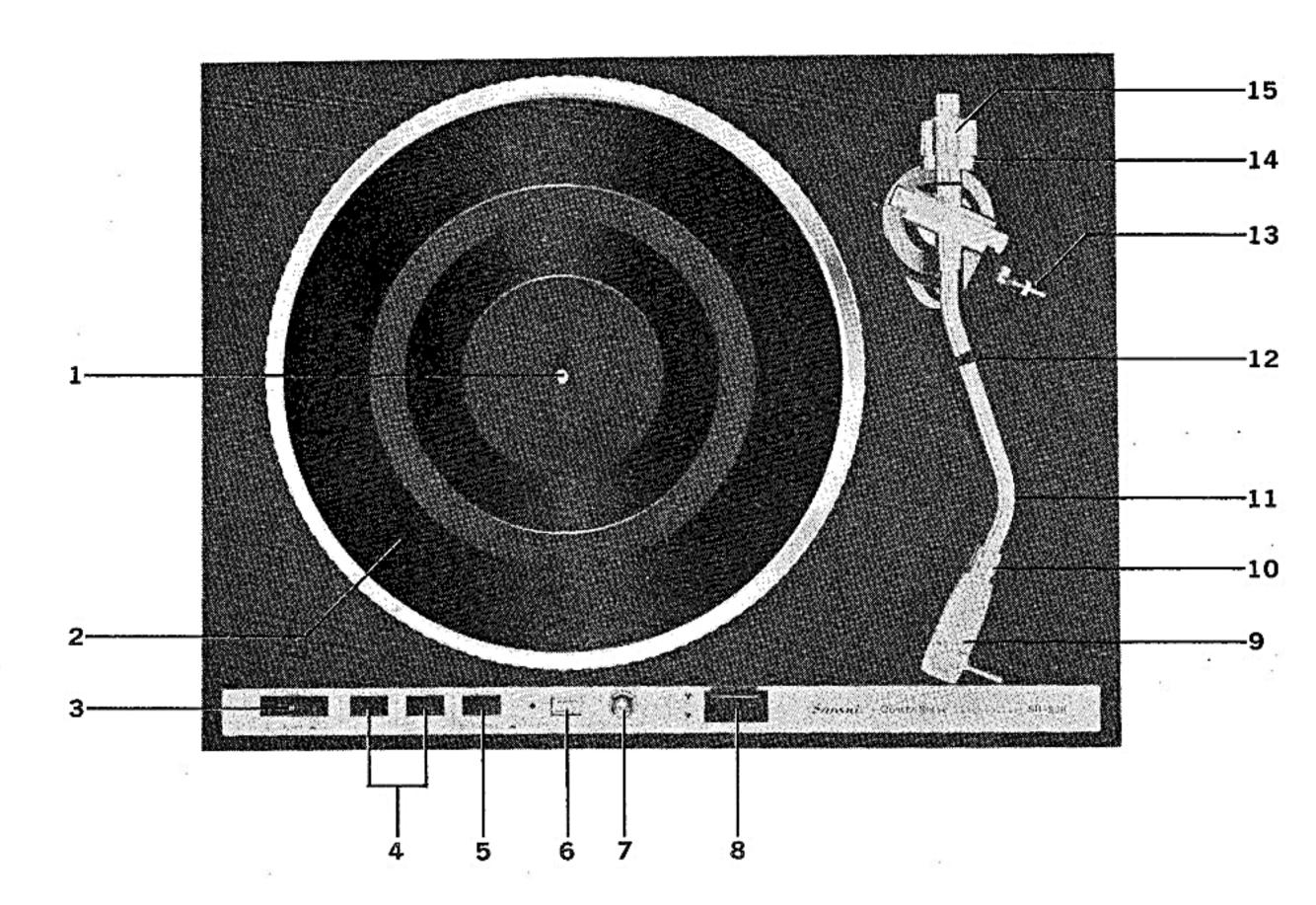
Do not extract the unit's platter shaft or dismantie the motor assembly; NEVER try to touch any part inside the turntable unit. Such action may result in deterioration in performance or in mechanical breakdown.

Caution prior to operation

- Avoid exposing the turntable (as well as your amplifier and other audio equipment).to rain or direct sunlight.
- Avoid exposing the turntable to dust, excessively warm or cold temperatures.
- * Place your turntable on a solid, vibration-free surface.
- * Avoid placing your turntable on an inclined surface, otherwise incorrect stylus tracking will deteriorate overall performance. See that the surface of a record, when placed upon the platter, is strictly horizontal.
- * When cleaning the turntable base and dust cover, be sure to use a dry, soft cloth. Never use thinner or alcohol. Also take care not to accidentally apply insecticides or other volatile liquids or sprays.

Power plug

- * Do no touch the power plug with wet hands, for you may be subjected to electrical shock.
- When unplugging the power plug, do not pull the cable; grasp in a plug and pull it out of the wall outlet.



- 1 Motor spindle
- 2 Rubber mat
- 3 POWER switch
- 4 Speed select buttons
- 5 QUARTZ-SERVO switch
- 6 Neon lamp
- 7 PITCH-CONTROL knob
- 8 Arm lifter lever
- 9 Headshell
- 10 Lock nut
- 11 Tonearm
- 12 Arm rest
- 13 Bias weight
- 14 Tracking-force dial
- 15 Main weight

SETTING-UP AND CONNECTIONS

This turntable is a precision instrument. To protect the delicate persisting inside during shipment they are secured in place by shipping screws, or packaged separately. Remove, set up and connect these parts as follows:

Removing shipping screws

With a screwdriver, remove the two shipping screws together with the red cardboards. Keep them for possible future use; re-ship the unit only after re-securing the parts as originally shipped.

Setting up turntable

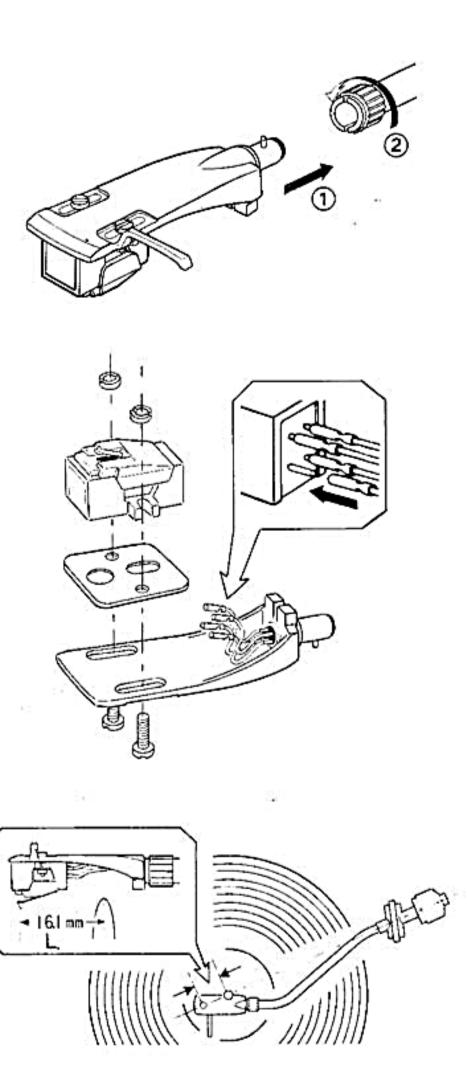
To mount the platter on the turntable, fit the platter slowly and gently onto the motor spindle, taking care not to apply any unreasonable force to the spindle. When the platter is securely fitted, place the rubber mat on it.

Removing the protective packing

To remove the packing used for tonearm protection, pull them toward the direction indicated by the arrows, as shown in the illustration.

Mounting main weight

Fit the main weight on the weight shaft of the tonearm and puttit toward you while turning it gently to the right.



Depending on the sales area of this turntable, a cartridge may not be provided.

Mounting cartridge

Mount a suitable cartridge on the spacer and headshell supplied loosely tightened screws and nuts. Then connect leads on the head to terminals of the cartridge. Be sure to make correct connections referring to instructions for the cartridge; leads are color-coded in the following manner:

Blue left-channel "-" ground White left-channel "+" hot Green right-channel "-" ground Red right-channel "+" hot

 The loosely tightened screws should be firmly and equally secured after you have adjusted overhang.

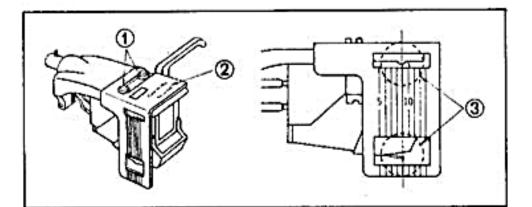
Mounting headshell

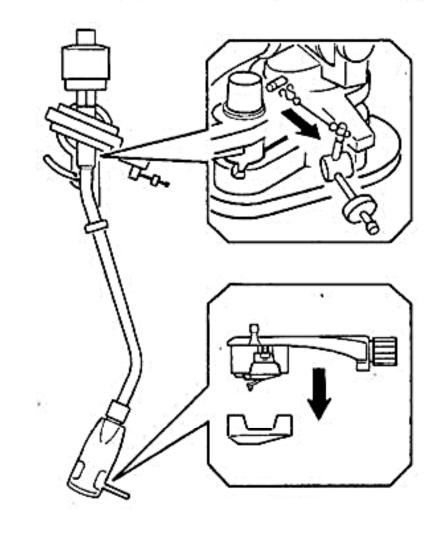
Insert the cartridge-equipped headshell into the lock nut at the end of the tonearm. Then push it lightly in the direction of arrow ① and tighten the lock nut securely by turning it in the direction of arrow ② as shown in the illustration.

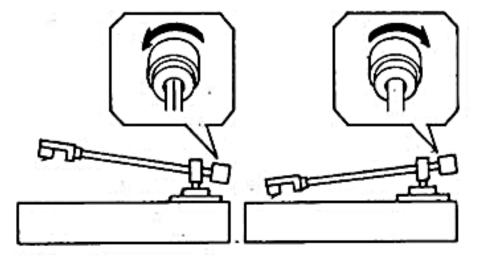
In the event that devices other than cartridges or headshell attachments are used, it is imperative that adjustments are made to the "Mounting cartridge" and "Overhang adjustments". Thereafter, it is similar as the procedures for assembly, as explained for the installation of the headshell.

Overhang adjustments

Overhang is the distance from the center spindle to the stylus when tonearm is closest to the center spindle, and is indicated by L in the illustration. The overhang of the tonearm of your turntable should be 16.1 mm. Loosen the screws holding the cartridge to the headshell and slide the cartridge backwards or forwards for optimum overhang adjustment. Once the overhang is set, retighten the cartridge-securing screws.







How to use the cartridge mounting gauge:

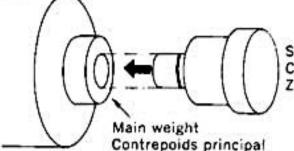
This unit is fitted with a gauge on the cartridge for overhang adjustments. When using the headshell supplied, determine the cartridge mounting position as shown in the illustration.

- 1. Loosen screws.
- 2. Fit the cartridge mounting gauge to the headshell.
- 3. Align vertically the mark indicated on the headshell with the sty intip: find the stripe printed on the gauge that runs above the stylus tip and then align that line with the mark on the headshell by sliding the cartridge with the gauge horizontally.

Tonearm horizontal balance

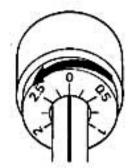
Before undertaking tracking-force adjustment, you must balance the tonearm in a perfectly horizontal plane to the motorboard to obtain a "O-gram" tracking force. Procedures are as described below:

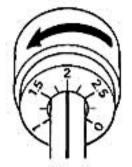
- Remove the stylus protector cover.
- 2. Unhook the string of the anti-skating device.
- Pull the arm lifter lever to the ▼ side toward you.
- While holding the headshell by its hook with your hand, move the tonearm to a place midway between the arm rest and the platter.
- 5. Turn the main weight with your other hand until the tonearm balances itself, remaining stationary and horizontal to the motorboard; if the headshell rises, move the main weight to the right. (seen from behind). If it lowers, move it to the left.
- Be very careful not to subject the stylus to undue shock during the tonearm horizontal balancing.
- When the tonearm horizontal balance is achieved, return the tonearm to the arm rest and push the arm lifter lever to the ▼ side.

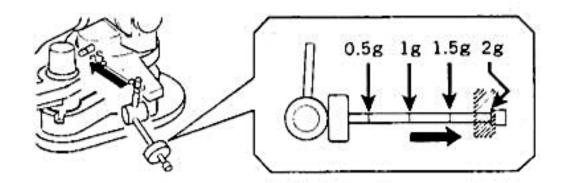


Sub-weight Contrepoids auxiliaire Zusatzgewicht

Hauptgewicht







How to use sub-weight

The tonearm will not balance itself horizontally if the cartridge/headshell is extraordinarily heavy. If you experience this, fit the sub-weight supplied on the weight shaft, then undertake horizontal arm balancing.

Tracking-force adjustment

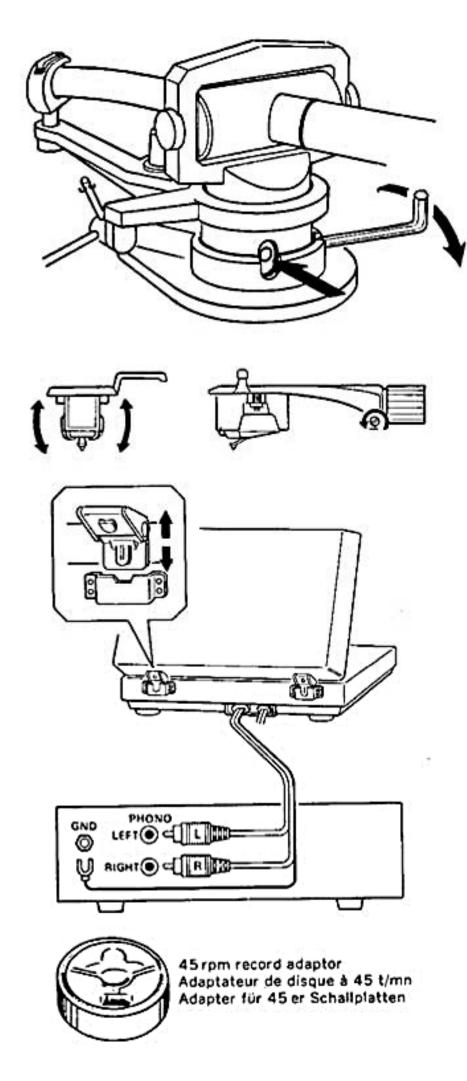
When the tonearm horizontal balance is achieved, a "O-gram" trackingforce is applied at the tip of the stylus. To apply the required positive force, you have to move the main weight toward the tonearm support pivot. For detailed tracking-force application and adjustment, observe the following procedures:

- 1. After undertaking horizontal balance, turn the tracking-force dial so that its "O" calibration is in line with the index on the weight shaft.
- 2. Turn the main weight to the right until you obtain the necessary tracking force. Since the tracking-force dial turns as the weight is turned, the applied tracking force is indicated by the numerals on the dial above the index line on the weight shaft.
- For the optimum tracking force of a cartridge you use, check its specifications.
- · Optimum tracking-force of the cartridge supplied is 2 grams; turn the main weight until the numeral or calibration on the dial is "2".

Anti-skating device adjustment.

Skating force is the natural force, caused by rotation of a record or the platter, which pulls the tonearm toward the center spindle. The antiskating device is the mechanism to balance this force to prevent excess wear and to assure proper disc reproduction.

- Hook the string of the device as illustrated at left.
- 2. Move the bias weight to the proper position according to the applied tracking force. Relation between tracking force and weight positi is as illustrated.



Arm height adjustment

If you replace the cartridge supplied with another, adjust the tonearm height, if necessary, so that the arm is horizontal when playing a record. To adjust, loosen the two screws, shown in the illustration with arrows, with the hexagonal wrench supplied.

Horizontal adjustment of headshell

The headshell supplied has provisions for left/right tilt adjustment to keep the headshell strictly horizontal. Normally headshell adjustment is not needed, for it's undertaken at our factory prior to shipment. In case you want to undertake the adjustment, loosen the screw (--), move the headshell to the left or right to bring it into balance, then retighten the screw.

Mounting dust cover

Dust cover is mounted by inserting dust cover fittings into openings on the rear wall surface of the cabinet. When the dust cover is to be dismounted, it should be fully opened and pulled directly upwards.

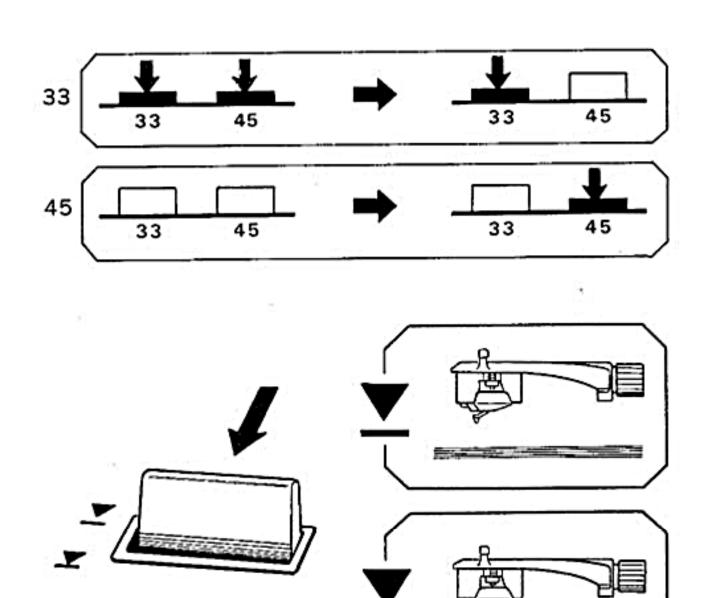
Connections to amplifier

Connect the pin-plug cables of the unit to the PHONO terminals on your amplifier. The red pin plug should be used for the right channel, the white pin plug for the left. The vinyl covered cable without a pin plug is for grounding. Connect it to the GND terminal on your amplifier.

45 rpm record adaptor

Take care not to lose the supplied 45 rpm (EP) record adaptor when not in use.

OPERATION



Cautions prior to record play

- Check that tracking-force, skating-force and other adjustment have been properly made.
- Pay special attention when handling the turntable and your records. Rough handling may result not only in shortened life of the turntable but also in severe record damage.
- Never attempt to halt platter rotation by hand, operate the power button and wait until the platter coasts to a stop.

Starting playback

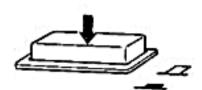
Place a record of your choice on the platter and push the POWER switch.

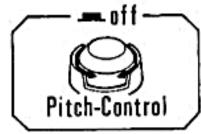
- Push either the 33 rpm or 45 rpm speed select button depending on the speed of the record you are about to play.
- Should both buttons be pushed or protruded, the selected speed will be as shown in the illustration. Then push the correct button again to have the correct speed.
- Remove the tonearm from its rest and move it so that the stylus is directly above the selection on the record you wish to hear.
- Pull the arm lifter lever to the ▼ side gently toward you. Then the tonearm will gently descend to the record and play begins.
- Adjust controls on your amplifier to the desired volume and tone quality.

Stopping playback

Push the arm lifter lever to the ▼ side, return the tonearm to the arm rest and push the POWER switch again (Power off).

Quartz Servo





Quartz-servo

Normally the QUARTZ-SERVO switch should be ON. Since the quartz-generated stable reference frequency is constantly at work in the servo system, highly accurate platter rotation is obtained at all times.

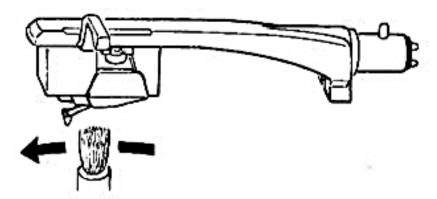
Pitch control

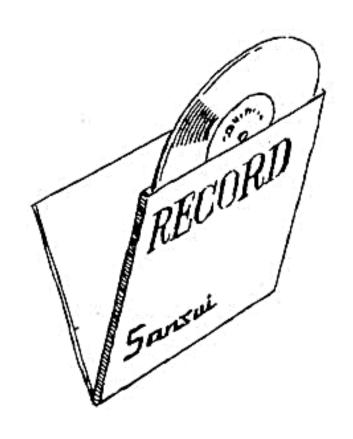
When you want to adjust the platter speed to coordinate the pitch of a musical instrument, use the PITCH CONTROL knob. Procedures are as follows:

- 1. Set the QUARTZ-SERVO switch to OFF.
- When the neon-illuminated stroboscopic pattern looks to be stationary, you have the rated platter speed. A leftward moving pattern indicates that the platter speed is faster than the rated speed(33 rpm or 45 rpm), and pitch is increased. A rightward moving pattern indicates the opposite, namely, that the platter is spinning slower than the rated speed, and pitch is decreased.
- When you look the stroboscopic pattern under a fluorescent light, you may see a second pattern. Please ignore it and refer only to the neon-illuminated pattern.
- Adjust the PITCH CONTROL knob to obtain the desired pitch. To increase pitch, turn the control to the "+" side. To decrease, turn it to the "-" side.

Lifter descent time

Please note that when you use your unit after a long period of disuse, or when you use it in a cold room, it may take longer time for the arm lifter to descend to the record for the first few plays.





SOME USEFUL HINTS

Keep the stylus tip clean

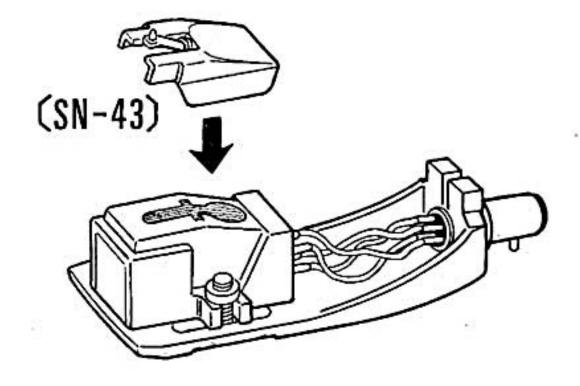
Dust and dirt are the major obstacles to noise-free record reproduction. When grime is allowed to collect in the record groove it will stick to the stylus tip, thus accelerating record and stylus wear and moreover deteriorating the quality of the reproduced sound. CD-4 records in particular require extra care.

Every time you play a record, first carefully remove all dirt and dust with a record cleaner; use the stylus brush to remove dirt from the stylus tip.

In cleaning the tip, avoid touching it with your finger or subjecting it to shock; such mistreatment may not only shorten its life but may even dislodge the jeweled tip itself.

Handling the record

- * Do not touch the surface, especially the grooves, of any records.
- Dust and dirt on the record surface are major causes of irritaing noises. Clean each record's surface carefully with a quality record cleaner before playing.
- * Spray-type record cleaning liquids or anti-static liquid, when overused, may cause tonal deterioration. You are advised therefore to carefully read the notes attached to such products before using them.
- Do not store your records other than in vertical positions.
- * Avoid exposing records to excessive humidity or to direct sunli



Replacement of styli

A diamond-tipped stylus will usually provide about 500 to 800 hours of high fidelity record playback.

A worn stylus, however, will cause distorted or crackling sound reproduction. You are advised to replace your stylus as frequently as possible. A replacement stylus is available from the nearest Authorized Sansui Service Station or from the Sansui dealer from whom you have purchased your turntable. Be sure to specify the model "SN-43" Sansui replacement stylus.

Lubrication

Your unit requires no lubrication whatsoever. Note that application of oil to the unit's platter shaft or platter bearing may cause turntable breakdown.

Power voltage

Your turntable is adjusted in our factory to operate on the power voltage of the area where you purchased it. Therefore, should you move to an area where the voltage is different from the factory-adjusted one, you have to make the voltage changeover. Make the changeover referring to the attached voltage/frequency changeover sheet.

If, however, the area where you bought your turntable is one where users are prohibited from making such changeover, changeover is possible. In other areas, consult with your nearest electric applied dealer about the specific voltage adjustor you need.

TROUBLE AND REPAIR

When you experience one of phenomena described below, chances we that the trouble may easily be righted. So we suggest that you check connections and operating procedures again.

If no sound comes from speakers:

- * Are the cartridge, turntable, amplifier, speakers, etc. correctly connected?
- * Are all the controls on the amplifier, input selector switch, tape monitor switch, speaker selection switch, etc. turned to the correct position?

If no sound comes from one of speakers:

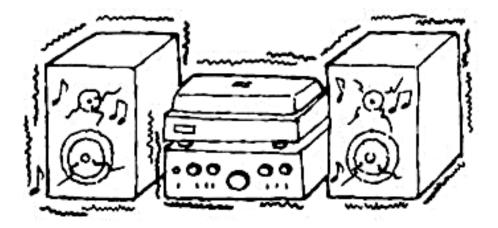
- Are the cartridge, turntable, amplifier, speakers, etc. correctly connected?
- * Is the balance control on the amplifier set at a center or near-center position?

If reproduction quality is poor:

- * Is the turntable truly horizontal?
- * Is the turntable placed atop a speaker system? (It should not be. Refer to the section titled "Howling" in this brochure.)
- * Are the stylus tip and the record free of dirt and dust?
- Is the correct tracking force applied? How about antiskating adjustment?

If booming hum is audible:

- Is the unit's grounding cable correctly connected to the amp's GND terminal?
- * Is the cartridge correctly connected?
- * Are there electric appliances in operation near the unit? (There should not be. Refer to "Induced hum" in this brochure.)



Howling

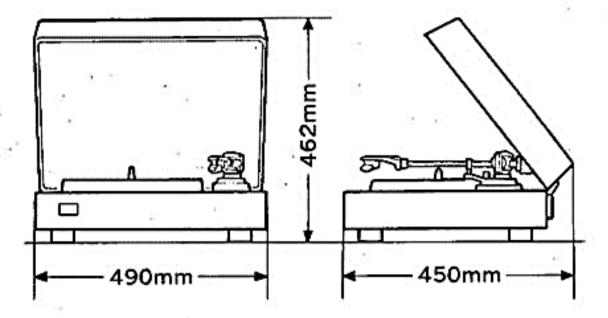
When an outside vibration is transmitted to a player in operation, abnormal sounds such as buzzing or shrilling (Howling phenomenon) is generated. Speakers should be separated from the player, and placed in such a location as to avoid transmittal of any vibration.

Induced hum

If you install your turntable directly on, or to the left of an amplifier, chances are that you may hear a booming hum, caused by the power transformer of the amplifier. If you notice such a hum, move the turntable away from the amplifier or relocate it on the right side of the amplifier (i.e. the side away from the amp's transformer).

When requesting repairs

Unplug your amplifier from the wall AC outlet and call your dealer or the nearest Sansui Authorized Service Station.



SPECIFICATIONS

Туре	Two-speed direct-driven											
Speeds												
Fine speed adjustment												
, range	+2.5%											
Platter	Aluminum alloy die-cast											
Dattor I. I. I. I. I. I. I.	318mm (12-9/16") diameter, 1.7 kg (3.7 lbs.)											
Motor	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1											
Motor	20-pole brushless DC servo-type											
11701 PORM WEST 15	(Quartz-servo)											
	less than 0.025% (W.R.M.S)											
S/N												
Rumble												
Tonearm	Statically-balanced											
	S-shaped tubular type											
Tonearm length												
Overhang	16,1 mm (11/16")											
Optimum cartridge weight												
When the headshell	supplied is employed											
	$4 \sim 11g (11 \sim 20.5g \text{ with the subweight})$											
g/2 = 1	mounted)											
Total weight includ	ling the headshell											
	23 ~ 32g with the subweight mounted											
Dimensions												
	167 mm (6-5/8") H											
	390 mm (15-3/8") D											
Weight												
Weight	15.0 kg (33.1 lbs) packed											
Power Consumption												
TOWER CONSUMPTION	/ / / liated/											

 The power voltage is adjusted to the one of the area where you bought the unit.

Specifications of the cartridge (applicable only to units with cartridge)

Cartridge SV-43 Frequency response . $10 \sim 20,000 \, \text{Hz}$ Output voltage . . . $3.3 \, \text{mV}$ per channel (1,000 Hz 50 mm/sec) Load impedance . . . $47 \, \text{k}\Omega$ Tracking force $2.0 \, \text{g}$ Stylus diamond (SN-43)

- Design and specifications subject to change without notice for improvements.
- In order to simplify the explanation illustrations may sometimes differ from the originals.

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