
Turntable System LFT IM2

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Thank you for purchasing our products.

We hope that this product will enhance your music and provide you with a richer musical life.

5-year quality warranty

All products will be repaired free of charge for five years if they fail under normal use in accordance with the user's manual. (excluding consumables).

The following parts are consumables and are not covered by warranty.

- Drive thread

Product Contents

- Base
- Platter
- Stabilizer
- Motor drive unit
- Arm unit
- Air supply unit

- Platter handles
- Drive thread x2 (consumables)
- AC cord
- DC cord for air supply unit
- Air tube for air supply unit connection $\phi 6$
- Air tube for arm unit connection $\phi 4$
- Phono cable
- Cartridge shell
- Balance weight large
- Balance weight medium
- Balance weight small
- Two types of hexagonal bar wrenches
- Arm position adjustment gauge
- Level
- Platter shaft lubricant
- User's Manual

< Sold separately >

- Player Board LPB1

Please read this User's Manual carefully before using the product to ensure safe operation.

1. Safety Precautions



Warning

If the power cable is not handled properly, there is a danger of fire or electric shock.

- Do not use power cables other than attached.
- Do not touch the power plug with a wet hand.
- Do not place anything on the power cable.

Do not remove the motor attachment and cover.

- There is a risk of electric shock and serious injury because of the high voltage inside.

Stop using immediately in the following cases.

- If water or chemicals flow into the unit.
- If there are metal or flammable items inside.
- If it seems a malfunction or an abnormality.
- If there is odor or smoke.

Turn off the power, unplug the power cable, and contact your dealer or our Service Department.

The total weight is about 80kg.

- Please use a sturdy rack that can withstand the weight.
- For safety reasons, always work with two or more people.

Do not disassemble, repair, or modify the product in any way.

- If you need repair, please contact your dealer or our service department.

2. Precautions for use



Caution

Do not install the product in the following places

- Humid or dusty place
- Enclosed area
- Unstable place with vibration or inclination

When connecting the power cable, keep the following in mind.

- Plug the power cable securely into a robust electrical outlet.
- Make sure there are no unreasonable bends in the cable.

For daily cleaning, wipe with water and then wipe with a dry cloth.

- Do not use solvents such as thinner.

The upper surface of the base and the back of the platter are polished to a precision of 5 μ .

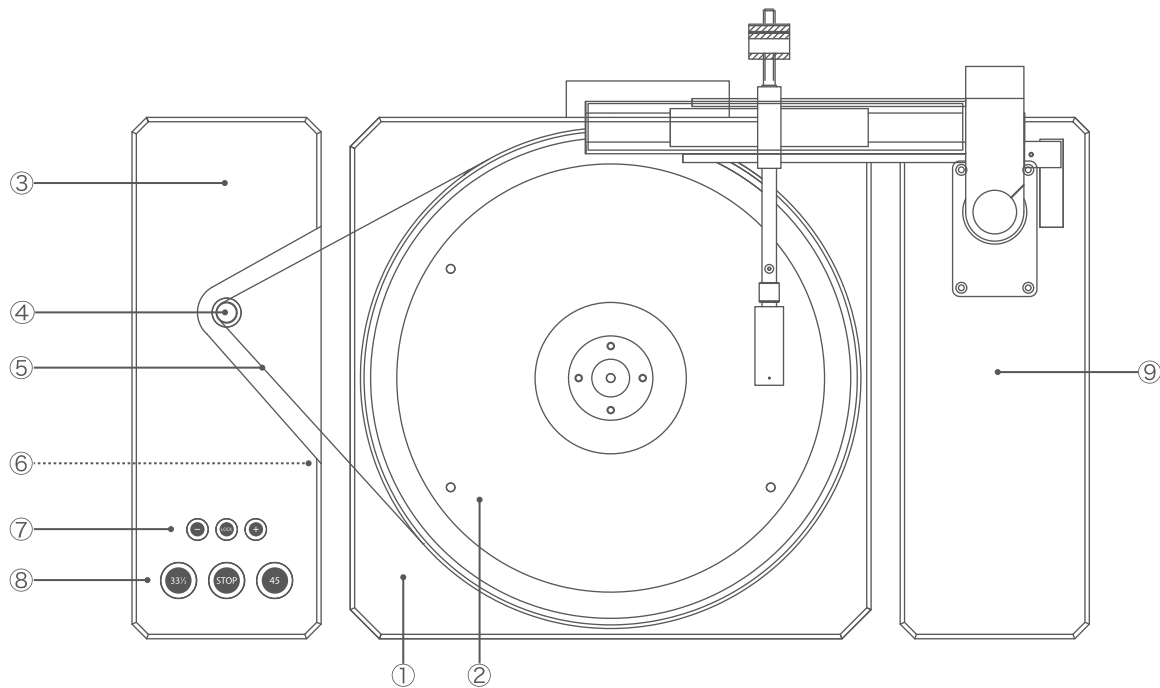
- Please handle with care to avoid scratches.

The contact surface between the slide shaft and the slider is polished for air floating.

- Please handle with care to avoid scratches.

3. Names of parts and their functions

Turntable System LFT1M2 Upper



① Base

② Platter

The screw holes are used to install the platter.

③ Motor drive unit

④ Motor pulley

Motor parts that transmit rotation to the platter

⑤ Drive thread (consumables)

Keplerian thread transmits motor rotation to the platter

⑥ Stroboscope LED

LED to check rotation accuracy; strobe lights up when unlocked to illuminate the platter.

⑦ Speed control button

Press + to increase the rotation speed and - to decrease it; use LOCK to lock or unlock the speed setting.

⑧ Rotation speed button

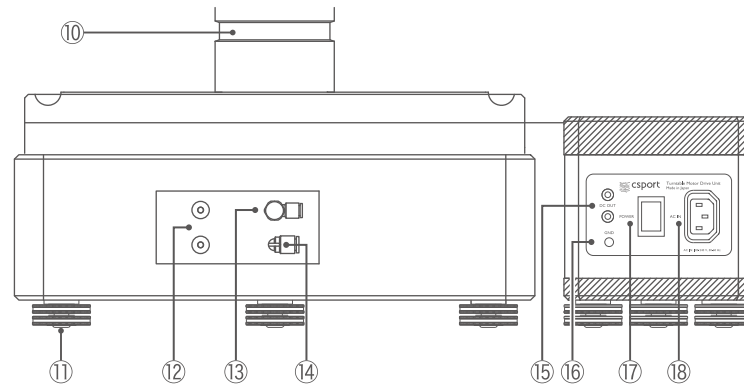
Press the 33½ or 45 button to start rotation. Press the stop button to stop rotation.

⑨ Arm unit

For safety reasons, always work with two or more people.

The upper surface of the base and the back of the platter are polished to a precision of 5 μ .
• Please handle with care to avoid scratches.

Base and motor drive unit Back



⑩ Stabilizer

Adhere the record and tapered platter to each other.

⑪ Base legs

Adjust the level of the base with the three legs. Loosen the lock nut of the upper section and turn the lower section to adjust.

⑫ Air discharge terminal for linear arm

⑬ Air control valve for linear arm

Adjusts the air volume of linear arm.

⑭ Air supply connection terminal

Terminal to receive air supply from air supply unit. Connect the air tube $\phi 6$.

⑮ DC12V output terminal

DC output terminal to supply power to the air supply unit. The output starts when the main unit is turned on.

⑯ Ground terminal

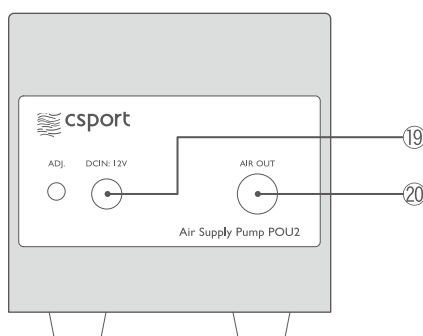
⑰ Main power switch

This switch turns the main power on and off. Turn off the main power when not in use, as it may affect the life of the air supply unit.

⑱ AC input terminal

Used to connect an AC power source. Be sure to use the supplied AC cord.

Air supply unit



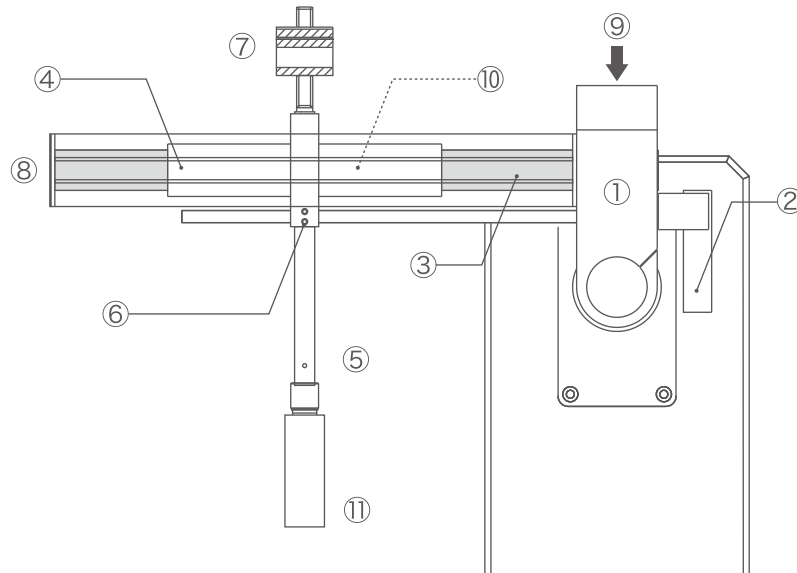
⑲ DC input terminal

Connect to the DC output terminal of motor drive unit to receive power. Be sure to use the supplied DC cord.

⑳ Air discharge terminal

Connect the air supply terminal of base with the air tube $\phi 6$ to supply air.

Arm unit Upper



① Holder

Adjust the height and parallelism(front/rear directions) of the arm with the screws on the side.

② Arm up/down lever

Tipping it to the front will lower the cartridge, while tipping it to the back will raise it.

③ Slide shaft

The slider slides on this. Be careful not to scratch it or it will not work.

④ Slider

Move over the slide shaft. Be careful not to scratch the inner slide surface.

⑤ Arm

Connects the cartridge to the slider. Deadening treatment is applied to prevent natural vibration.

⑥ Azimuth adjustment screw

Screw for adjusting the left/right tilt and front/back of the cartridge

⑦ Balance weight

Adjust the stylus pressure by combining two weights, large, medium, and small, and then tighten and lock them after adjustment.

⑧ Arm cover (always worn)

Prevents arm from falling or cable from being cut.

⑨ Phono cable connector

DIN standard 5-pin phono cable connector

⑩ Air supply terminal

Terminal to supply air to the arm
Connect the air tube $\phi 4$.

⑪ Headshell

The shell to which the cartridge is attached. Universal type, various cartridges can be installed.

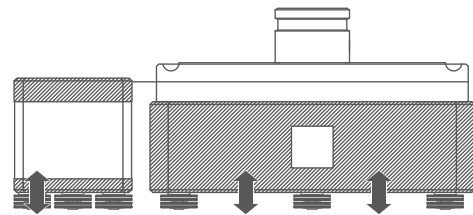
4. Installation and Connection

1. Install the player board

- Install the Player Board LPB1 on the rack.
(sold separately, if purchased)

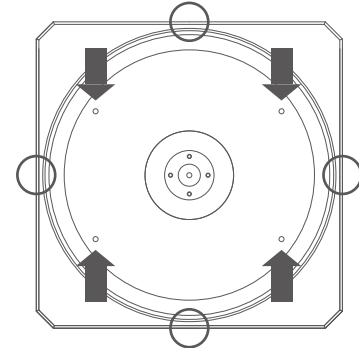
2. Install the base, motor drive unit and air supply unit

- Place the base and the motor drive unit on top of the rack or player board and the air supply unit on the floor.
- Use a level to check the level of the base and the motor drive unit front to back, left to right. If there is any inclination, loosen the locknuts on the upper part of the three legs and turn the lower part to adjust. After adjustment, tighten the lock nuts to fix.



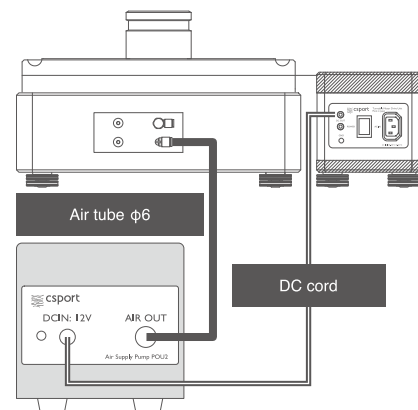
3. Install the platter

- Turn the two handles into the screw holes of the platter by hand until the screws stop. (Do not use any tools.)
- Lift up the platter and install by aligning it with the bearing of the base. For easy installation, make sure the circled areas in the figure are the same distance apart. After installation, remove the handles.



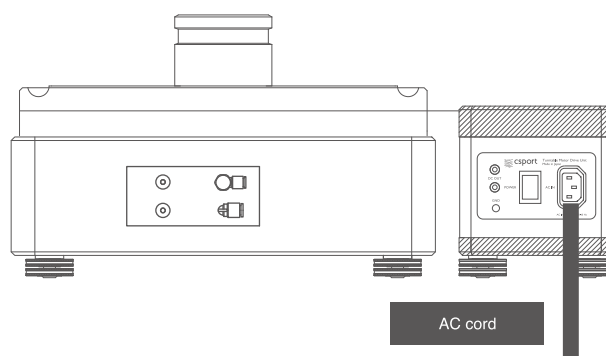
4. Connect the air supply

- Connect the DC cord to the DC output terminal of the motor drive unit and the DC input terminal of the air supply unit.
- Connect the air tube $\phi 6$ to the air supply terminal of the base and the air discharge terminal of the air supply unit. At this time, insert the tube firmly and deeply until it hits the back of terminal.



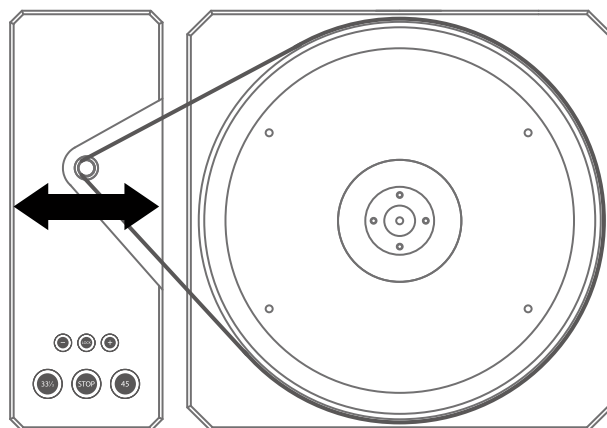
5. Connect the AC cord

- Plug the AC cord into the AC input terminal of the motor drive unit and connect it to an outlet.
- Turn on the main power switch and check that air is supplied from the air supply unit and that the platter rotates by hand.



6. Install the drive thread

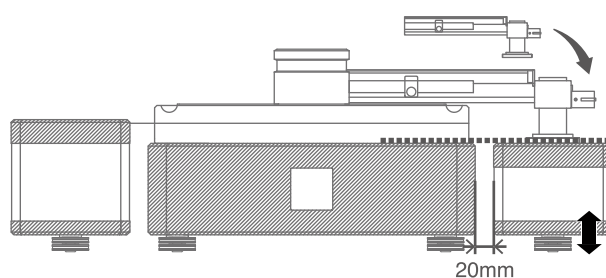
- Put the drive thread in the groove of the pulley, and while turning the platter, put the thread over the entire platter.
- Make sure that the platter has stopped rotating, and turn off the main power switch.
- Push the drive thread outward with your finger and move the motor drive unit to the left or right so that the thread tension moves about 5 mm.



If the main power switch is turned off while the platter is rotating, the air supply will stop and the platter will stop suddenly. Be sure to turn off the main power after confirming that the platter has stopped rotating, as this may cause scratches on the base.

7. Install the arm unit

- Place the arm unit approximately 20mm from the side of the base, and adjust the three legs of the arm unit so that it is level with the top surface of the base. Ensure that the front-to-back orientation of the arm unit aligns with that of the base.
- Attach the linear arm to the top surface of the arm unit with four supplied M4x10 hexagon socket head screws.



8. Connect the air tube

- (1) Connect the air control valve of the base to the air discharge terminal (upper) with a short air tube $\phi 4$.
- (2) Connect the air discharge terminal (bottom) and the air supply terminal at the bottom of the linear arm with a long air tube $\phi 4$.

- At this time, insert the tube firmly and deeply until it hits the back of the terminal.
- When removing the tube for replacement, pull out the tube while pressing the insertion port (plastic part) of each terminal.

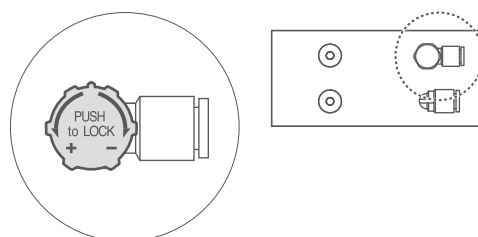
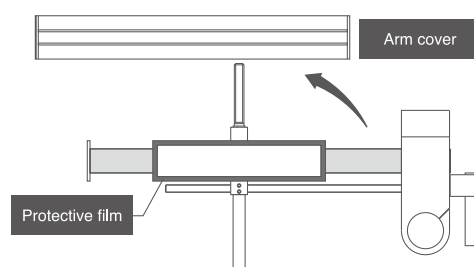
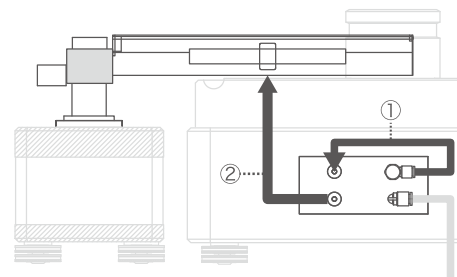
- Remove the arm cover, remove the band and the protective film, and then reattach the arm cover.

Please be careful not to drop the slider as it may cause the arm cable to break.

- Turn on the main power of the motor drive unit, start the air supply, and make sure the slider moves left and right.

If the movement is heavy, use the air control valve on the base. Set the unit at a position where the air sound cannot be heard from the speaker.

This air control valve is push-lock type, pull the handle toward to unlock. After turning the handle to adjust the air volume, push the handle again to lock.



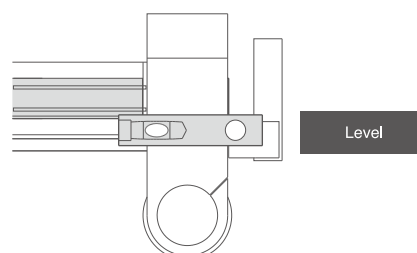
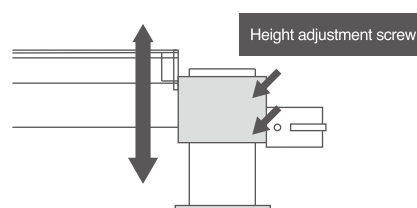
9. Adjust the height and level

■ Height adjustment

- After attaching the shell and cartridge, loosen the two adjustment screws on the holder gradually, and raise or lower the holder by hand to adjust the height. At this time, make sure that the record and the arm are aligned horizontally.

■ Level adjustment

- Place the level on the holder and check the level of the arm. Make precise adjustments to level the arm with the three legs of the arm unit.



10. Adjust the front and back position of the arm

- Place the hole of the arm position adjustment gauge into the spindle and press the end of the gauge against the slide shaft, making sure that the shaft and gauge are parallel.

If it is not parallel, loosen the two screws on the side of the holder and rotate the holder to adjust it to be parallel while maintaining the height.

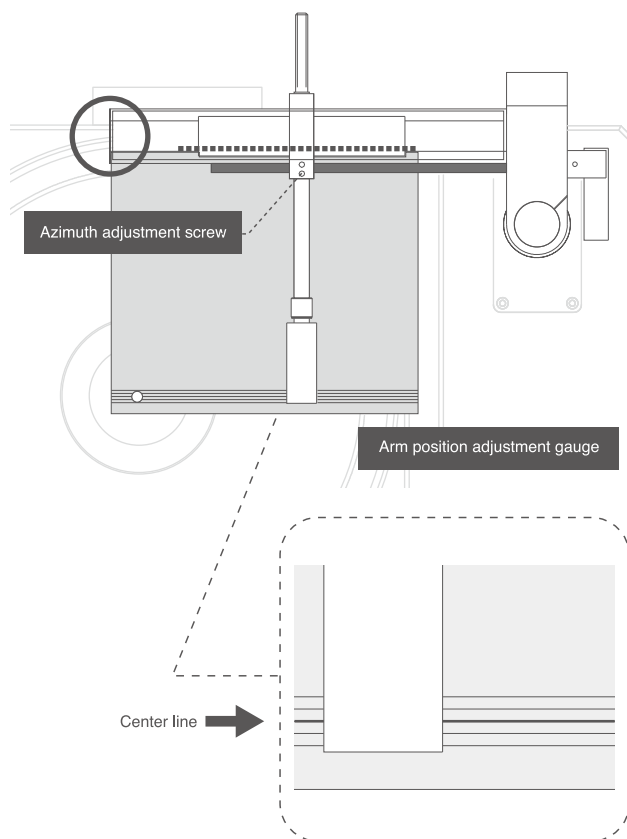
At this time, make sure that the gauge and the left end of the arm are in the same position.

If the position is not the same, move the entire arm unit to the left or right and adjust the arm end position.

- Move the arm to the center of the gauge, loosen the azimuth adjustment screw so that the stylus tip of the cartridge is on the center line of the gauge, and adjust the arm front to back. (Maximum +2mm) After adjustment, tighten the screws.

- Move the slider left and right to make sure that the stylus tip is on the center line of the gauge. Then remove the gauge.

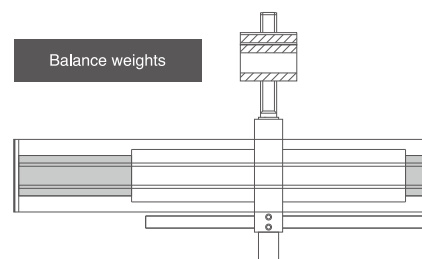
If the position is off by more than +2mm, adjust the mounting position of the shell.



11. Adjust the stylus pressure

- Install the two balance weights large and small or medium and small. Using a stylus pressure gauge, adjust the stylus pressure by moving the weights while turning them, and then tighten and lock them after adjustment.

- Use a combination of large and small, or medium and small, balance weights according to the weight of the cartridge.



12. Adjust the azimuth

- Visually or by playing a test record, check the balance between left and right. If there is any discrepancy, loosen the azimuth adjustment screw and adjust the angle. After adjustment, tighten the screws.
- Connect the phono cable to the phono cable connector and to the phono equalizer amplifier.

This completes the setup.

5. How to use

1. Platter rotation

- Turn on the main power switch on the back of the motor drive unit to start the operation of the air supply unit.
- Press the speed button to rotate the motor and platter.

- About the motor

Since LFT1M2 does not have servo control, it will take some time until it reaches a constant speed. If you are in a hurry, please add rotation to the platter by hand and keep the platter turned when changing records.

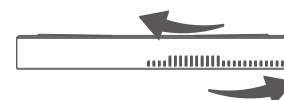
2. Check the platter rotation accuracy

- Press the lock button to enter the unlocked state and light up the strobe.
 - Check the rotational accuracy by the imprint on the side of the platter where the LED is illuminated.
 - Once the alignment marks are synchronized, press the LOCK button to turn off the strobe light.
 - If the imprint is moving;
 - In the clockwise direction, the speed is faster than the constant speed. Press the - button to slow down the rotation.
 - In the counterclockwise direction, the speed is slower than the constant speed. Press the + button to speed up the rotation.
- Press and hold the speed adjustment button to make continuous adjustments.

- About the rotation speed adjustment

The rotational accuracy at which 1 piece imprint is displaced when the platter makes one rotation is 0.35% at $33\frac{1}{3}$ rpm. Adjust the speed so that the displacement of the imprint is less than 1 piece in 1.5 rotations or more.

The speed is;
faster than the constant speed



slower than the constant speed

3. Start playback

- Place the record on the platter and install the stabilizer.
- Move the cartridge to the start playback position, and lower the cartridge.
- When playback is finished, raise the cartridge.
- Move the arm to the right end, remove the stabilizer, and remove the record.

4. Stop using

- Raise the cartridge and press the stop button to stop the rotation of the platter.
- Make sure that the platter has stopped completely before turning off the main power switch.
- The rotation speed when the main power switch is turned off is stored. Next time it can be used from this state.

If the main power switch is turned off while the platter is rotating, the air supply will stop and the platter will stop suddenly. Be sure to turn off the main power after confirming that the platter has stopped rotating, as this may cause scratches on the base.

Turn off the main power when not in use, as it may affect the life of the Air Supply Unit.

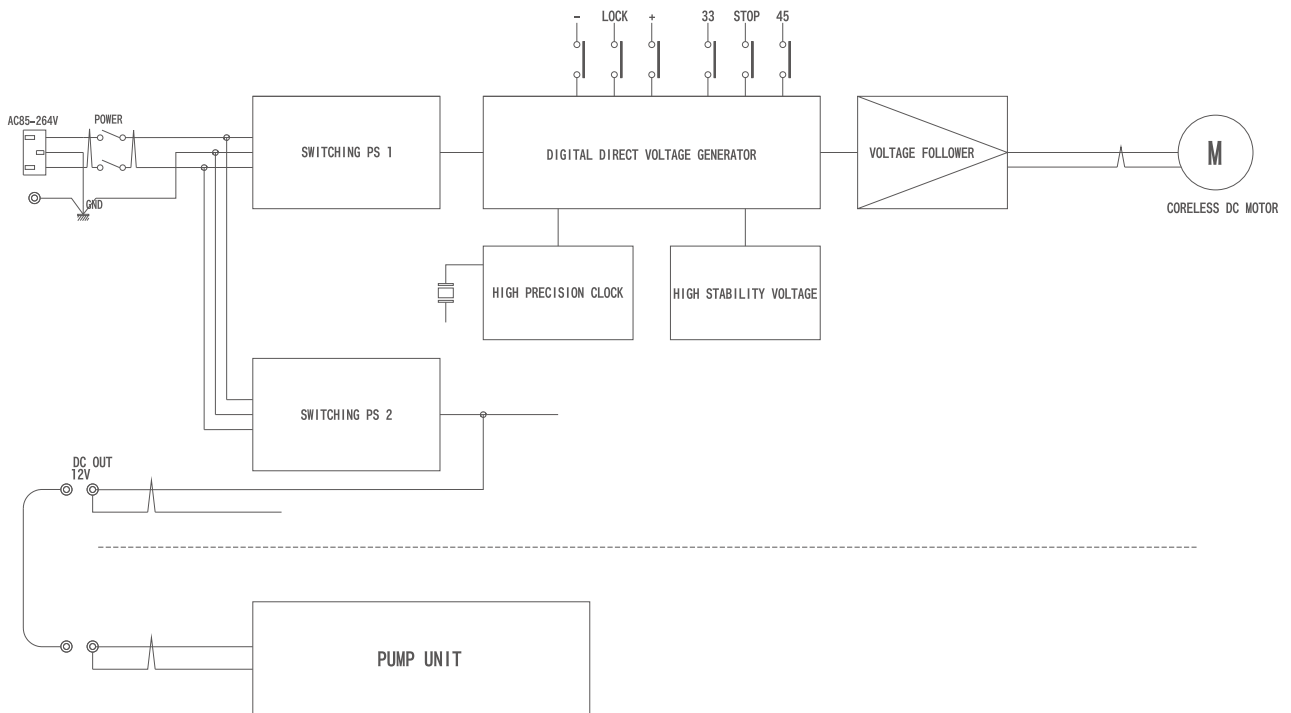
Daily maintenance

- For daily cleaning, wipe with water and then wipe with a dry cloth. Do not use solvents such as thinner.
- The platter bearings may become dirty due to wear from rotation. Wipe the inside of the platter bearings regularly with a clean cloth or dustproof paper.
- The platter bearing has a load of about 100g and uses oil-less metal, so basically no lubrication is required for several years. For more ideal operation, use the supplied lubricant (low-viscosity silicon oil).
- If water droplets or dust accumulate between the slide shaft and slider of the linear arm, the arm will not move properly. Wipe the shaft and slider with a clean cloth or dustproof paper about once a month. Also, do not use the linear arm in a humid place.

6. Product Specifications

Model	LFT1M2
■ Turntable section	
Material	[Base] JIS0 grade granite
	[Platter] Brass
Dimensions	[Base] 358W×120H×358D mm
	[Platter] φ344×43H mm
Weight	[Base] 40 kg
	[Platter] 28 kg
■ Motor Drive section	
Motor Control	Quartz Oscillator, No-Feedback "XFD system"
Drive System	Thread drive (Aramid)
Motor	DC, Brush-less, Low-noise
Turntable Speeds	33⅓, 45 rpm
Rotation Precision	±0.3%
Wow/Flutter	0.2%/0.04% or less
Power Supply	AC100/120/200/240 V, 50/60 Hz
Power Consumption	40 W
Dimensions	130Wx120Hx358D mm
Wight	8 kg
■ Tonearm section	
Type	Air float linear tracking
Applicable Cartridge Weight	20-40 g (Including Shell)
Applicable Stylus Weight	1.5-5 g
Stylus Pressure Adjustment	Static balance
Screw Adjustment	Azimuth, Tonearm Length, Leveling
Arm Lift	Manual
Output Terminal	DIN 5P
Dimensions	130Wx120Hx358D mm
Weight	1.2 kg
■ Air Supply section	
Power Supply	DC12 V

7. Block Diagram



8. Troubleshooting

Check the following when you think it may be a malfunction. If the problem persists even after these measures are taken, or if the problem is not listed, contact your dealer or our service department.

LFT1M2 not turning on

- Check that the power cable is plugged in.

Skip

- Check the level of the base and the arm unit.
- Check if the air tube is loose or disconnected.
- Check that the arm (cartridge) is not tilted.
- Remove any dirt or dust from the stylus.
- Be sure to use it with a stabilizer on it.
- If water droplets or dust accumulate between the slide shaft and slider, the arm will not move properly.

Wipe the shaft and slider with a clean cloth or dustproof paper about once a month.

- Check the stylus position of the cartridge using the arm position adjustment gauge.
- If the record is misaligned, distorted, or damaged, it may not play properly.
- Check and adjust the amount of air supply to the arm.
- Cannot be used in humid places.

Platter does not turn.

- Check if the air supply unit is operating.
- Check that the pulley is rotating and that the drive thread is installed correctly.

No sound

- Check that the cartridge is connected properly.
- Check that the phono cable is connected properly.

9. After-sales Service

5-year quality warranty

All products will be repaired free of charge for five years if they fail under normal use in accordance with the user's manual. (excluding consumables). Please note that even within the warranty period, repair may be charged depending on the circumstances of the failure.

After expiration of warranty period

If repair is possible, the product will be repaired for a fee upon request. Repair parts will be available for 8 years after the end of production. If the product has been in use for a considerable period of time, please contact our service department in advance.

Others

The following failures will be repaired for a fee. Please note that you will be responsible for the actual cost of parts, technical fees, shipping, and travel expenses.

- If the failure is caused by improper use or usage that does not follow the user's manual.
- If the failure is caused by a device other than our product you purchased.
- If the failure is damaged by fire, earthquake, flood, lightning, rodent damage, salt damage, other pollution, or abnormal voltage.
- The product has been repaired by someone other than us.

Please note that we are unable to repair any product that has been altered.

We do not warrant any incidental damage resulting from product failure.

Second User Registration

Customers who have acquired our products as used products can take over the remaining warranty period as a second user. If you have acquired a used product, please register from the "Support" section of our website.

Contact Us

If you have any questions about the product, please contact your dealer or our service department. When requesting repair, please inform us of the serial number attached to the back of the unit and the status of the failure.

Please keep the packing materials as they will be needed for transportation of the repair.



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