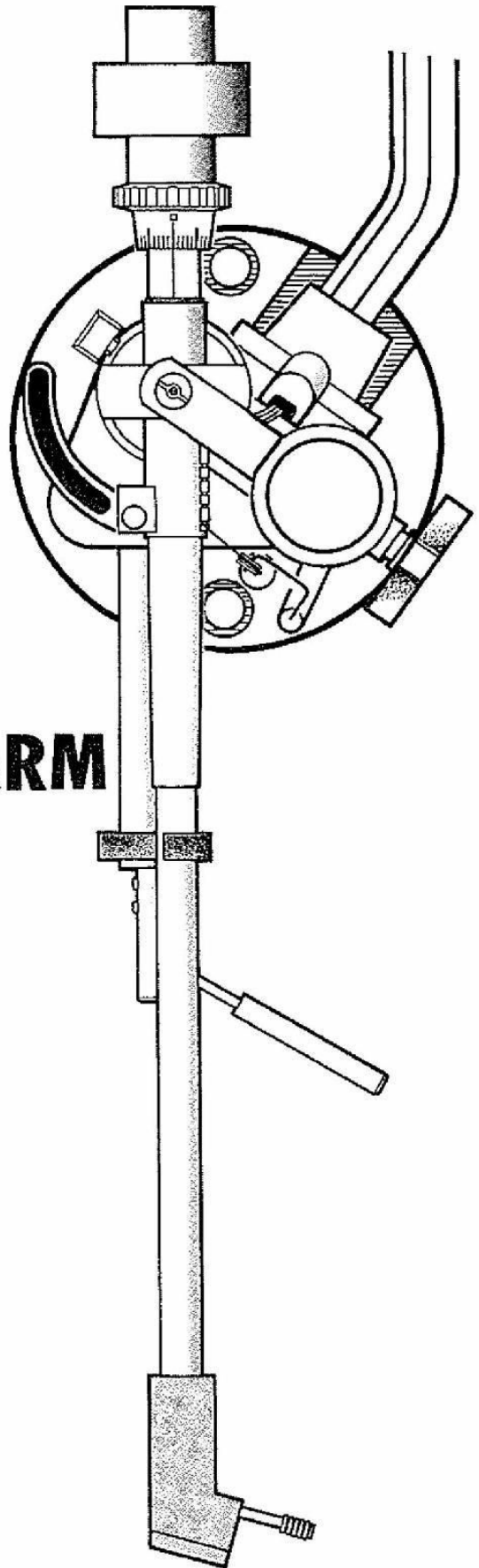


YAMAHA INTEGRATED STRAIGHT ARM YSA-1

Instruction manual/warranty



Please be sure to read this before use.

A warranty card is attached to the last page of this manual. Please fill in the required information, check the contents, and keep it in a safe place.

Thank you very much for your purchase of the Yamaha Integrated Straight Arm YSA-1.

The YSA-1 is a premium tonearm specially designed for the Yamaha GT series players (GT-2000L/2000/1000) for audiophiles.

To get the most out of your YSA-1 and to ensure you enjoy using it for many years to come, we recommend that you read this instruction manual carefully before use.

After reading, please keep it in a safe place. (It will surely be useful in the future if you have any questions.)

Features

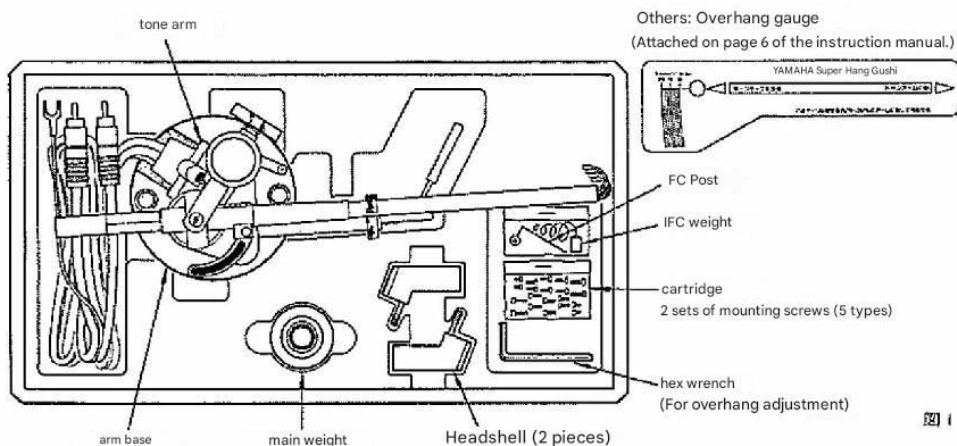
- Semi-long arm with an effective length of 262mm that minimizes horizontal tracking error. Robust and highly reliable virtual single-point support gimbal support. Straight arm with high rigidity machined center pipe that is resistant to vibration.
Designed with an emphasis on basic performance.
- Yamaha's original one-touch arm replacement method. Fully integrated type with no intermediate connector.
- The high-rigidity machined yellow steel center pipe, direct-plated brass arm pipe, and machined aluminum head shell all eliminate magnetic materials around the signal line, preventing them from affecting the signal.
- 8-strand Litz wire, low impedance cable, balanced impedance cable, and brass-cut pin plugs provide a wide range of information.
- A non-contact optical auto lifter can be incorporated, improving operability.

Please note

- The YSA-1 is a tone arm designed exclusively for the record players GT-2000L, GT-2000 and GT-1000.
- The tone arm is a particularly delicate part of a record player. Please be careful when installing the YSA-1.

When using this unit with the GT-2000/2000L, it is suitable for cartridges with a weight of 3 to 20g, and for the GT-1000, it is suitable for cartridges with a weight of 3 to 12g (due to the contact between the dust cover and the main weight).

- Integrated type cartridges with shells cannot be used.
In addition, in rare cases, cartridges with a large depth may not be able to be installed.
- The number of lead wires in the arm bearing section is double that of normal ones in order to achieve low impedance, so the arm tends to drift horizontally when zero balance is achieved. Please be aware of this.
- Before assembly, refer to Figure 1 and check that all parts are included.



Assembly of YSA-1

1. Preparation (see Figure 2)

1. Remove the tone arm from the packaging box and place it in the center of the work table. Be careful not to tip it over.
2. Take out the main weight, IFC post, IFC weight, 1 shell, 1 pack of cartridge mounting screws, and hex wrench.
3. Prepare the cartridge to be installed, tweezers, a small flat-head screwdriver, and a scale. (Tweezers and a flat-head screwdriver are included with the GT player.)

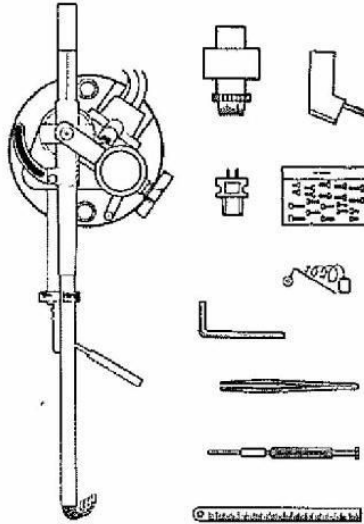


図 2

2. Installing the cartridge

1. Select a cartridge mounting screw with a threaded portion of 1.5~2.5mm. If you cannot find a screw of the right length, use a longer screw and file off the tip of it before using it.
2. If the horizontal distance from the cartridge mounting hole to the stylus tip is 12 mm or less, use the screw hole closest to the tip of the shell. If it exceeds 12 mm, use the screw hole in the back row.
3. If the tip of the mounting screw hits the back of the screw hole, sufficient tightening force will not be obtained. Apply force to the cartridge and check that it is not worn out.
4. Please use the needle knife bar.

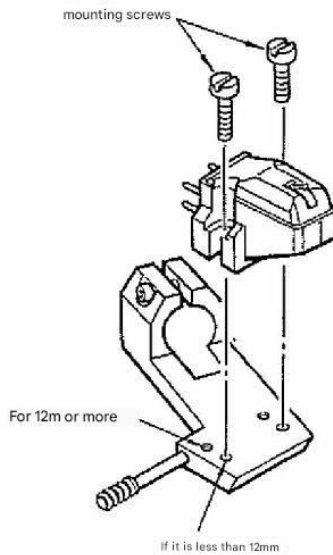


図 3

3. Installing the shell

1. Place the shell face down and insert it into the end of the pipe as shown in Figure 4. If it does not fit into the hole, loosen the fixing screw with a hex wrench.
2. Rotate the shell 90 degrees clockwise and then use tweezers to insert the lead wire tips into the cartridge terminals in the order of white, blue, red, and green.
3. Rotate the shell another 90° clockwise to make it horizontal, then lightly tighten the fixing screws with the hex wrench.

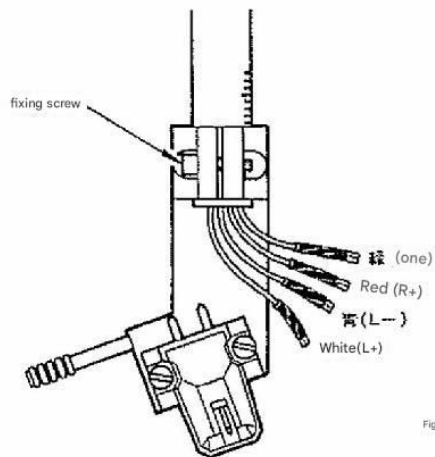


Figure 4

Assembly of YSA-1

4. Attaching the weights

- 1) Slide the outer ring of the weight (so that it is positioned approximately in the center of the overall length.
2. Push the weight counterclockwise and insert it onto the weight shaft.
- 3) Push in until the distance between the weight rubber and the counter ring is about 10m.

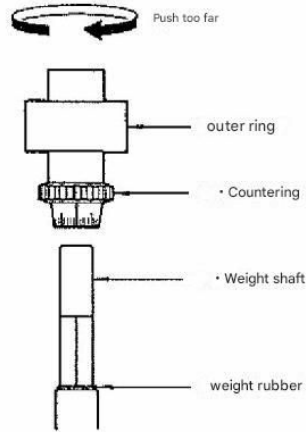


Figure 5

5. Installing the IFC

- 1) Assemble the IFC as shown in Figure 6. Attach the string at the position that matches the specified stylus pressure of the cartridge.

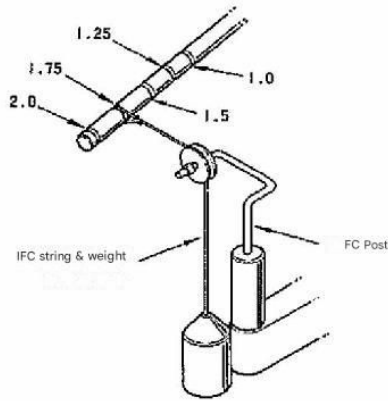


Figure 6

Tone arm replacement

The YSA-1 can be easily replaced thanks to Yamaha's original one-touch arm replacement method. The arm base of the GT player and the arm base included with the YSA-1 are the same size, so you can use either one, but we recommend that you use the arm base that comes with the player as is. The included arm base is used to hold and store the tone arm after removing it from the player.

1. Remove the S-arm (see Figure 7)

- 1) Disconnect the PU cable from the preamplifier and remove it from the cable hook.
- 2) Pull the cable out to the right from the gap between the dust cover and the cabinet.
- 3) Loosen the arm height fixing knob.
- 4) Being careful not to touch the cartridge, slowly and gently pull the entire arm straight up and out.

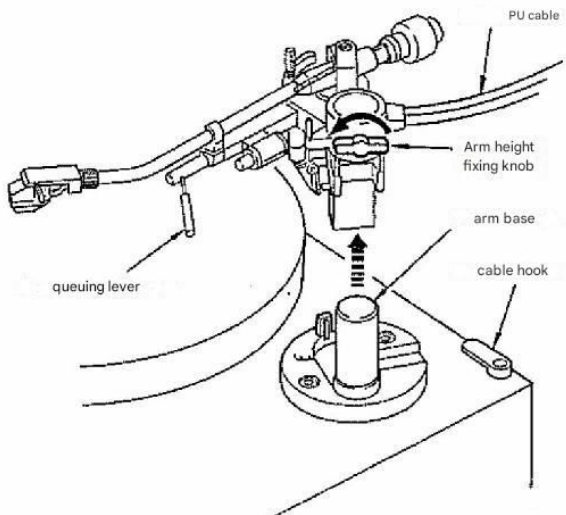


Figure 7

Tone arm replacement

For the GT-2000L or GT-2000 with YAL-1, pull the 5-pin connector on the back of the arm straight down as shown in Fig.8.

- ⊙ For now, lay the arm down gently in a safe place.

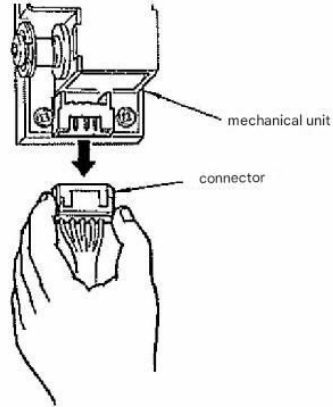


Fig 8

2. Installation of YAS-1

- ① Loosen the arm height fixing knob on the YSA-1.
- ② Pull the arm straight up to remove it from the arm base.
- ⊙ Gently insert the connector into the arm base of the GT player. If the connector is protruding from the bottom, push it into the arm base.
- ④ Align the slit on the arm side with the protrusion on the arm base as shown in Fig. 9, and push the arm further down. When the base shaft protrudes approximately 10 mm, lightly tighten the arm height fixing knob.
- ⊙ Pass the PU cable between the dust cover and the cabinet and hang it on the cable hook.

Connect to the preamplifier.

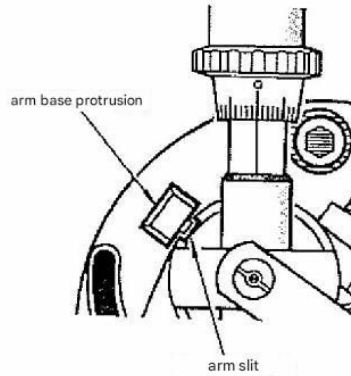


Fig 9

3. Adjustment of YSA-1

- ① Adjust the overhang using the included overhang gauge. Insert the hole of the overhang gauge into the center spindle and set it as shown in Figure 10. Adjust the headshell back and forth so that the tip of the needle is on the "14" line on the gauge scale, and at the same time, level the shell and fix it with a hexagonal wrench.

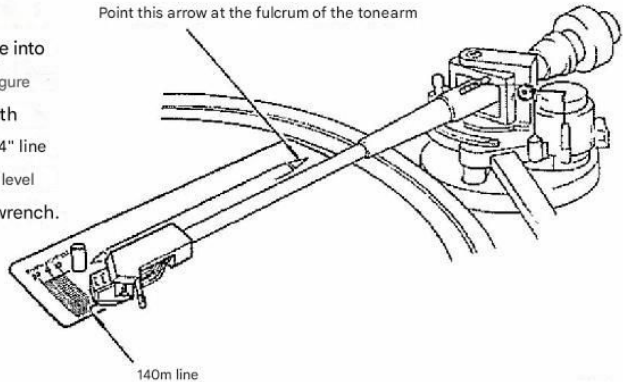


Figure 10

- ⊙ Zero balance the arm and apply stylus pressure.
- ⊙ Check that the IFC stringer roller is not loose.

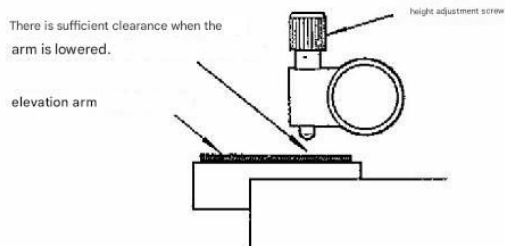


Fig 11

- ④ Adjust the height of the arm and tighten the fixing knob firmly.
- ⑤ Raise the arm and turn the height adjustment screw so that the distance between the disc and the needle tip is 6-7m.
- ⊙ Lower it and check that the tip of the height adjustment screw is clear of the elevation arm rubber.
- ② This completes the arm replacement procedure, but lastly, fit the removed S-arm into the arm base that came with the YSA-1.

About autolifter

The non-contact optical auto lifter YAL-1 can be attached to the YSA-1, but the procedure differs depending on the combination of devices used.

1. If you have already installed the YAL-1 on an S-arm, or if you have a GT-2000L and would like to install the YAL-1 on the YSA-1 as well

- ① Please purchase YAL-1.
- ② The YAL-1 consists of a drive unit, a mechanical unit, an adjustment unit, a cylinder lens, and screws. The drive unit is already attached to the arm base of the player body and can be used with this unit.
- ③ Therefore, there is no need to attach the drive unit to the arm base as described in the YAL-1 instruction manual.

Do not remove the arm base from the player.

2. If you want to transfer the lifter attached to the S-arm to the YSA-1

- ① Turn the S-arm over as shown in Fig. 12 and remove the three screws.

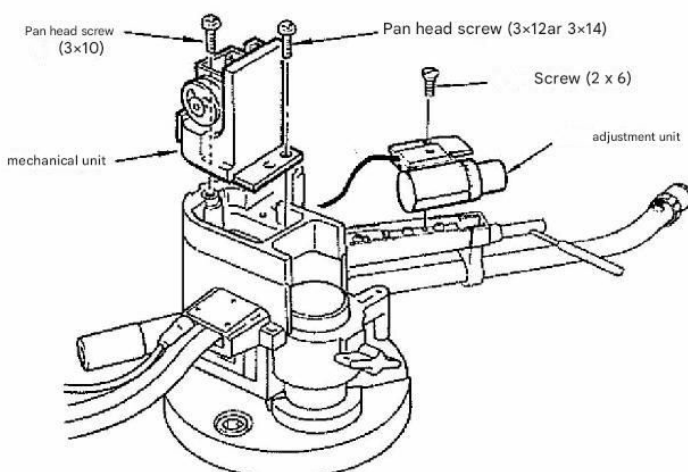


Fig. 12

- ② Remove the cylinder lens. The top and bottom have different shapes, so be careful when inserting it into the YSA-1. (Fig. 13)

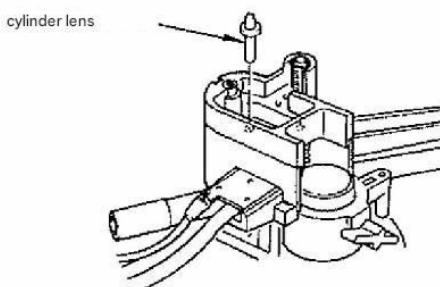


Fig. 13

- ③ Attach the S-shaped arm to the arm base and put it away.

- ④ Remove the YSA-1 from the player (same as in Figure 7).

- ⑤ Remove one screw, number 14. This screw will not be used. (Fig. 14)

- ⑥ Transfer each unit in steps 13 and 12 of Figure 1. Yes.

When you attach this YSA-1 to the player, do not forget to connect the connector inside the arm base to the bottom of the arm (see Figure 8).

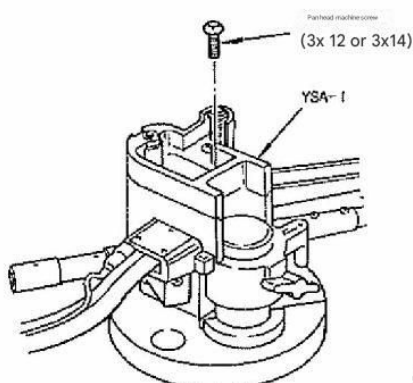


Fig. 14

About autolifter

Adjust the lifter position according to the GT-2000L or YAL-1 instruction manual.

- If there is a difference in height between the automatic and manual lifts, adjust the elevation arm adjustment screw so that it is the same as the automatic lift (Fig. 15).

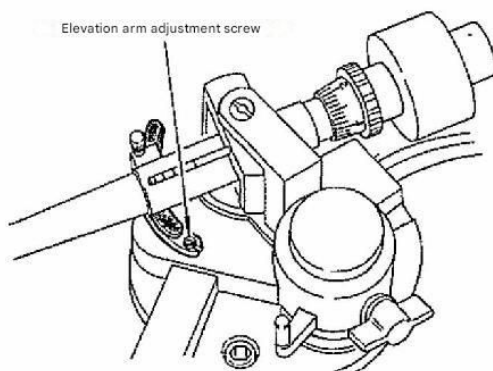


Fig. 15

Reference specifications

Arm type/	.....	• Static balance, straight integrated tone arm
effective length	.....	262mm
Overhang dimensions:	.....	14mm
Offset angle...	.....	20°
Horizontal tracking error	.....	(- 1° ~ + 2°)
Head pressure application method	.....	• Static balance type 49 per revolution, 0.19 steps
Applicable cartridge weight range/	.....	3 ~ 20 g (GT-2000/2000L) 3 ~ 12 g (GT-1000)
Arm initial sensitivity...	.....	Vertical 7mg, horizontal 7mg
Arm lifter...	.....	...Oil dump type cue ink
inside horse canceller	.....	...Thread-hanging weight type 1.09~2.09, 0.25g steps
arm height adjustment width,	.....	18mm
Head shell...	.....	• Aluminum cutting with anodized finish weight 80
Lead wire inside the pipe	.....	• \$1.2 OFC wire x 4
PU code...	.....	TK # 3000 brass cutting pin plug
Signal line reciprocating resistance	.....	0.15Ω
Equivalent weight (including shell):	.....	32 g
Weight (shell + pipe + weight):	290g	

*Specifications and appearance are subject to change without notice.

Warranty policy

If a malfunction occurs during the warranty period due to a quality or manufacturing defect, the retailer where you purchased the product (the repair point) will repair it free of charge.

How to use the warranty

If this product breaks down during the warranty period, please contact the store where you purchased it (repair center) and we will repair it for you. Please submit the actual product to a service technician. The service technician will keep this document when they come to your home for service.
 The machine will be sent to the Japanese Tea Manufacturing Service Center and returned directly to you 10 to 15 days after all procedures have been completed.

Even during the warranty period, repairs will be charged in the following cases.

- In the case of breakdowns or damage to chickens due to improper handling.
- If the cause of the malfunction is equipment other than this product or other factors (antenna, radio waves, installation location) that are preventing the product from operating normally. When a part has been repaired or modified by someone other than our serviceman, and the repair or modification was inappropriate. When damage was caused by wear and tear of parts or mishandling. (Broken or bent stylus of player, head of cassette adapter, etc.)
- Dirt In the event of breakdown or damage caused by fire, earthquake, flood, lightning, other natural disasters, pollution, or voltage abnormalities.
- If silver damage or salt damage has occurred and parts cannot be repaired.
- When replacing broken, damaged or worn parts (heads, belts, etc.) that have been used for purposes other than general household use
- If the date of purchase, customer name, or store name is not written on the certificate, or if the wording is overwritten.
- In the absence of the original light. Also, in the event that the light is not indicated.

Accommodation in case of moving

If you are unable to request repairs from the retailer (repair request destination) listed on this document due to moving, purchasing a new product, etc., please contact the Nippon Gakki Manufacturing Customer Service Center.
 If we carry out on-site repairs to remote islands or locations similar to Kanjima, we will charge you the actual costs of the trip.
 If you wish to change the Hertz, etc., an additional change fee will be charged.
 This warranty is valid only within Japan.
 Even after the one-year warranty period has expired, we will carry out services for a fee. If you bring the component to the store where you purchased the product (where you request repairs), the repair time will be short and the repair will be free of charge. In this case, the repair fee will be cheaper.
 This book will not be reissued, so please keep it in a safe place.

*This guarantee promises no cooking for the period and conditions specified in this document.

Therefore, since this does not limit your legal rights, if you have any questions about repairs after the warranty period has expired, please contact the retailer where you purchased the product or the Nippon Gakki Manufacturing Customer Service Center. *For information about repairs after the warranty period has expired and the retention period for replacement parts, please refer to the section (About Service Requests) in the instruction manual.

repair memo	
•	•
•	•
•	•
•	•

Address	TEL
	()
Sales name	

yamaha audio

customer

If the required information is not filled in on the warranty card, it will be invalid, so please be sure to have it filled in at the store where you purchased the product.

Request to dealers

Please also write the store address and name on the back of the warranty and give it to the customer.

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Yamaha audio warranty

Thank you for purchasing Yamaha audio. This product is subject to warranty repairs in accordance with the terms and conditions on the back of this warranty. If a malfunction occurs during use from the date of purchase, please present this warranty and ask for repairs at a high-quality dealer.

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YSA-1	
Purchase date	year month B
Warranty period	One year from the date of purchase
Store name	
Where to apply for repair	
(name)	
(address)	
(Telephone)	

〒430 10-1 Nakazawacho, Hamamatsu City TEL 0534-65-1111



Nichinan Musical Instruments Co., Ltd.



About service requests

■ For service requests or inquiries, please contact the store where you purchased the product or a YAMAHA electro-acoustic product service center.

■ Warranty period

One year from the date of purchase.

■ Repairs during the warranty period

Repairs will be carried out in accordance with the warranty. Please see the warranty for details.

■ Repairs after the warranty period has expired

If the functionality of the product can be restored by repair, a fee will be charged at the customer's request.

■ The minimum retention period for repair parts is

The minimum retention period for replacement parts is eight years after production is discontinued. This period is in accordance with the guidelines of the Ministry of International Trade and Industry.

Performance parts are parts that are necessary to maintain the functionality of the product.

■ YAMAHA Electro-acoustic Product Service Center

Customer consultation desk

Tokyo Service Center	Address: 3-4 Kamde Zekawadai, Chiyoda-ku, Tokyo 101 (Ryumeikan Building 4F) TEL (03) 255-2241
Tokyo Stereo Service Station	〒101 3-4 Kamde Zekawadai, Chiyoda-ku, Tokyo (Ryumeikan Building 4F) TEL (03) 255-2241
Tokyo Denki Service Station	〒: 01-34 Tomisadai, Kanda, Chiyoda-ku, Tokyo (Chumei Building 4F) TEL (03) 255-2241 〒231 6-61-1
Yokohama Iku Service Station	Honnachi, Naka-ku, Yokohama TEL (045) 212-2223
Niigata Denon Service Station	1-4-8 Banda, Niigata City, 950 [Silver Ball Building Yamaha Niigata Center 2] TEL (0252) 43-4321
Osaka Denon Service Center	1-16 Shinushigeshita, Suita City, 565 (inside Senrioka Center) TEL (06) 877-5262
Osaka stereo service station	1-15 Shinushigeshita, Suita City, 565 (inside Yonumaoka Center) TEL (06) 877-5262
Osaka Denon Service Station	1-16 Shinsetanshita, Suita City, Osaka Prefecture, 565 (inside Senrioka Center) TEL (06) 877-5262
Shikoku Electric Sound Service Station	8-7, Kuomachi, Takamatsu City, 760 TEL: (0878) 51-7177 (0978) 22-3045
Nagoya Station Sound Service Center	〒460 Nagoya City Naka Ward Sakae 1-cho 8-7 TEL (052) 231-2432
Nagoya Electric Railway Service Station	〒460 1-8-7 Sakae, Naka-ku, Nagoya TEL (052) 231-2432
Hamaetsu Denon Service Station 2-14-1	Higashibaba, Hamamatsu City, 430 TEL (0534) 56-9211
Kyushu Denon Service Center 2-11-4	Hakataekimae, Hakata-ku, Fukuoka City, 812 (092) 472-2134 2-11-4
Kyushu Service Station TEL	Hakataekimae, Hakata-ku, Yokooka-shi, 812 TEL (092) 472-2134
Hiroshima Denon Service Station 2205-3 Nishihara, Jien-cho, Asaminami-ku, Hiroshima 731-01	TEL (082) 874-3787
Hokkaido Denon Service Center 〒055 Sapporo City Higashi Ward Honmachi 1-9-3	TEL (011) 781-3528
Hokkaido Denon Service Station 19-3 Honmachi, Higashi-ku, Sapporo 065	TEL (011) 781-3521
Sendai Denon Service Center 5-7, Maboroshimachi, Sendai City, 983 [inside the Joint Distribution Center]	TEL: (0222) 96-0249
Sendai Denon Service Station 5-7	Oshinomachi, Sendai City, 983 (inside the Distribution Center) TEL (0222) 96-0249
<small>Repair bases for HiPower systems</small>	
Tokyo Education Service Appointment	2-3-10 Takanodai, Nerima-ku, Tokyo 171 TEL (03) 304-4901
Osakaden service appointment	1-16 Shinushigeshita, Akita City, 565 (inside Senrioka Center) TEL (06) 877-5262
Nagoya Electric Service Development	〒460 1-8-7 Sakae, Naka-ku, Nagoya TEL (052) 231-7896
Kyushu Denon Service Apo 2-11-4 Hakata Station, Hakata-ku, Fukuoka City, 812	TEL (092) 472-2134
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Honkyō	
<small>Business Technology Jump Telephone Service Center 〒430 10-1 Nakazawa-cho, Hamamatsu City</small>	
	TEL (0534) 65-1111



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