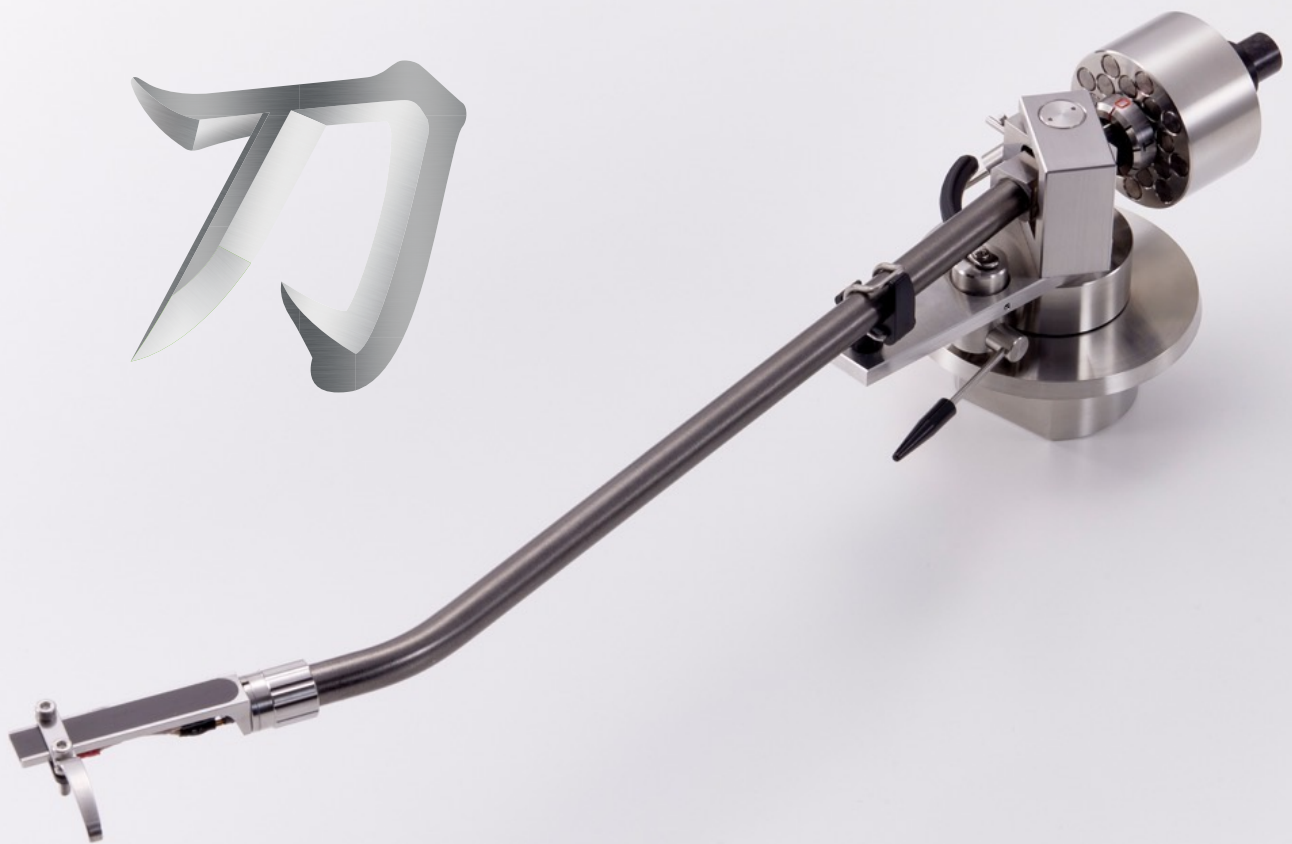




MUNUAL

Premium Type

MH-12KATANA

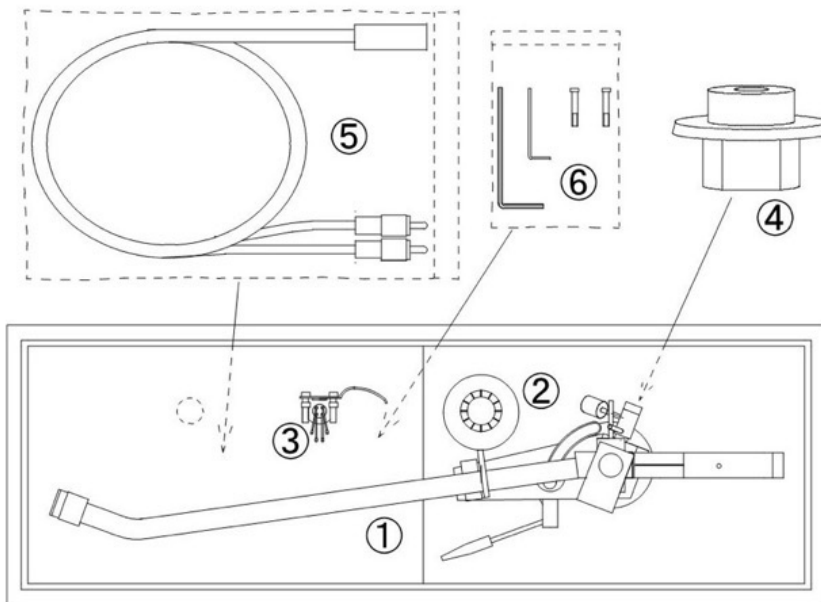
We thank you very much for your recent purchase of our leading edge tonearm.

Glanz is one of the best known of the legendary audio brands who held sway over the market in the days of analogue audio equipment. It has now been relaunched, and has returned to offer you the same quality listening experience you always had, allowing you to continue to enjoy your vinyl record collection, but with the added enhancements of modern technology.

In order for you to maximise your satisfaction with this product, we would highly recommend that you carefully read through the Owner's Manual, and follow instructions for the set-up and operation of this remarkable tonearm.

First of all, we would like you to identify and confirm the following items, which are included in this product package.

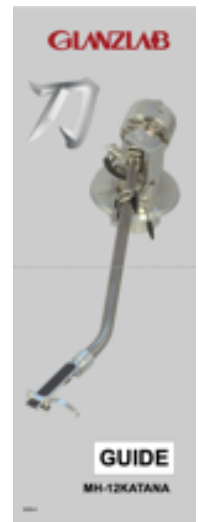
- ① Tonearm body
- ② Weight assembly
- ③ Headshell (Finger lever, 4 x lead wires, 2 x 26φ×12mm, screws, 2 x nuts)
- ④ Base for tonearm
- ⑤ Output extension cords
- ⑥ Small accessories (2mm/4mm hexagonal wrench, 2 x 2.6φ×16mm cartridge screws)
- ⑦ Mounting template for turntable
- ⑧ Instruction manual & warranty
- ⑨ Premium Type KATANA Guide



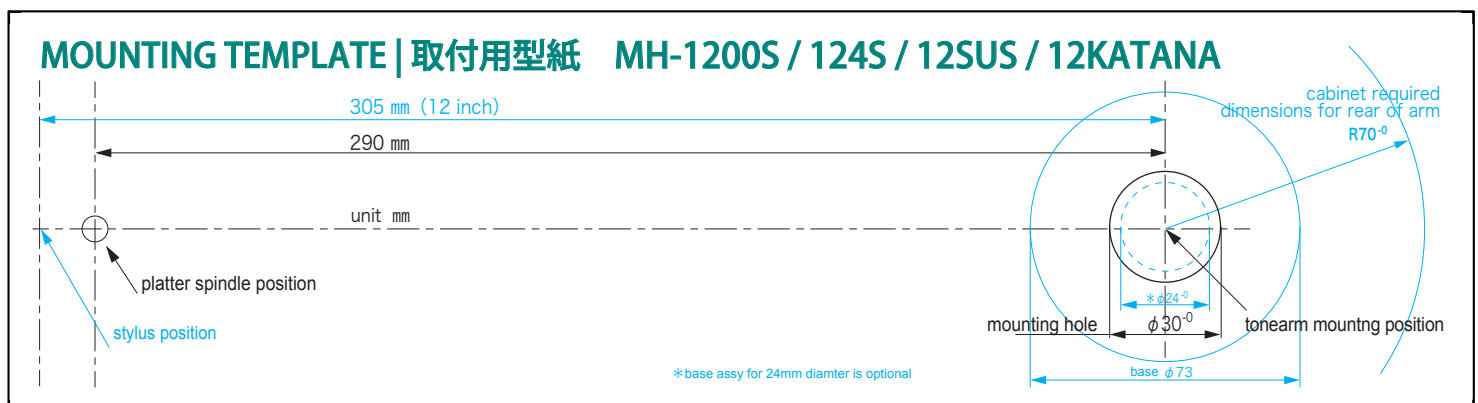
⑧



⑨



⑦ MOUNTING TEMPLATE (The pattern below is for a 12-inch arm)



Warranty: for details, please ask your local dealer or GLANZLAB product distributor.

GLANZLAB Ltd.

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Sales Office : 3F Kaden-Kaikan, 3-6-1, Yushima Bunkyo-ku, Tokyo, 113-0034, JAPAN

info@glanz1.com

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Specifications

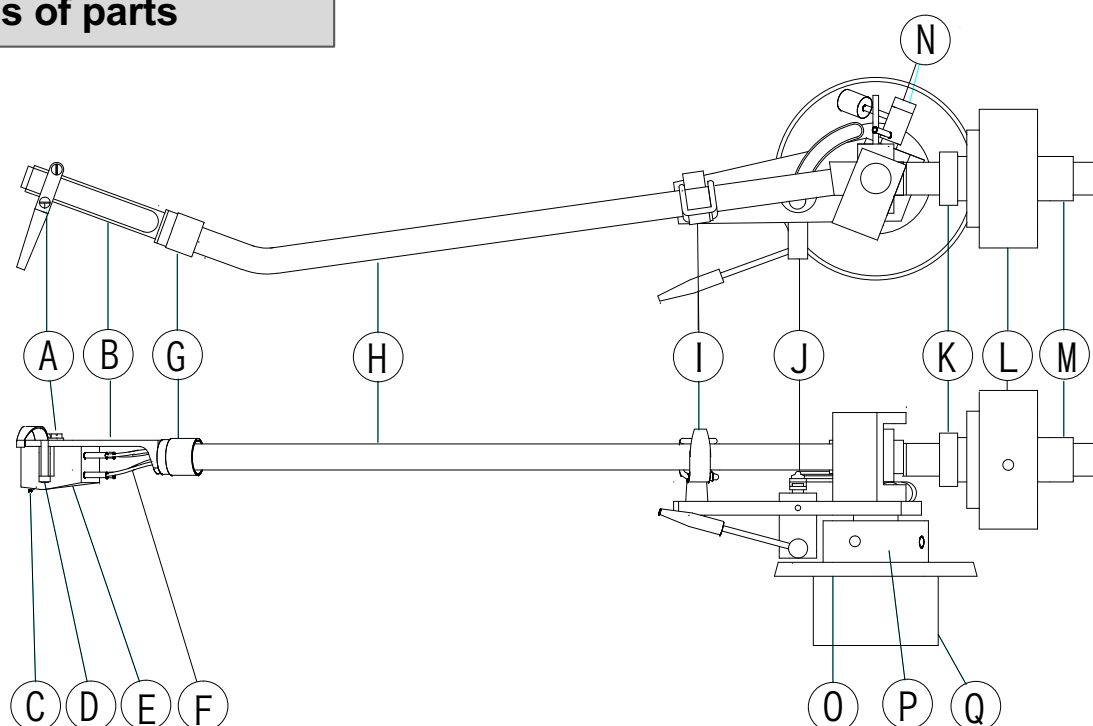
		MH-12KATANA
1	Balancing	Static Balancing
2	Total Length (*1)	330mm
3	Effective Length (from centre of tonearm Base to stylus tip)	305mm
4	Practical Length (from centre of tonearm Base to centre of turntable)	290mm
5	Offset Angle	20 °
6	Adaptable cartridge weight (incl headshell)	13~44g
7	Total weight	1.2kg
8	Overhung	15mm
9	Tracking weight range	0.5g (Minimum scale) - over 10g (5g/360 ° rotation)
10	Adjustable height (*2)	41~70mm
11	Headshell weight	12g (Incl.screws and lead wires)
12	Shaft dimensions to mounting base	Φ16mm
13	Mounting hole size	Φ30mm
14	Fixing depth size	~20mmt

(*1) : From counter weight shaft end headshell terminal.

(*2) : From plinth surface to horizontal height of arm tube.

This unit is subject to change without notice. Thank you for your understanding.

Names of parts



- Ⓐ Cartridge Fixing Screw
- Ⓑ Headshell
- Ⓒ Pick Up Stylus
- Ⓓ Cartridge Fixing Nut
- Ⓔ Cartridge
- Ⓕ Lead Wire
- Ⓖ Headshell Fixing Nut
- Ⓗ Arm Tube
- Ⓘ Arm Resting Device

- Ⓙ Arm Lifting Device
- Ⓚ Tracking Force Adjustment Scale Dial Ring
- Ⓛ Main Counter Weight
- Ⓜ Counter Weight Sleeve
- Ⓝ Anti Skate Adjust
- Ⓞ Arm Base Plate
- Ⓟ Arm Base
- Ⓠ Arm Base Fixing Nut

1

Preparation for mounting the tonearm onto the record player plinth

1. Determine the hole drilling position of the tonearm fulcrum (mounting screw part) using the mounting template enclosed with the product.
2. Insert the left end hole ($\phi 7\text{mm}$) describes as Platter Spindle of the mounting template to the center shaft (spindle) of turntable platter.
3. Rotate the template sheet and fix the position of the mounting hole of the arm base at 45 degrees when viewed from the top.
4. The distance between the center spindle to the center of mounting hole is 290mm (12 inch), respectively.

Fig : MOUNTING TEMPLATE

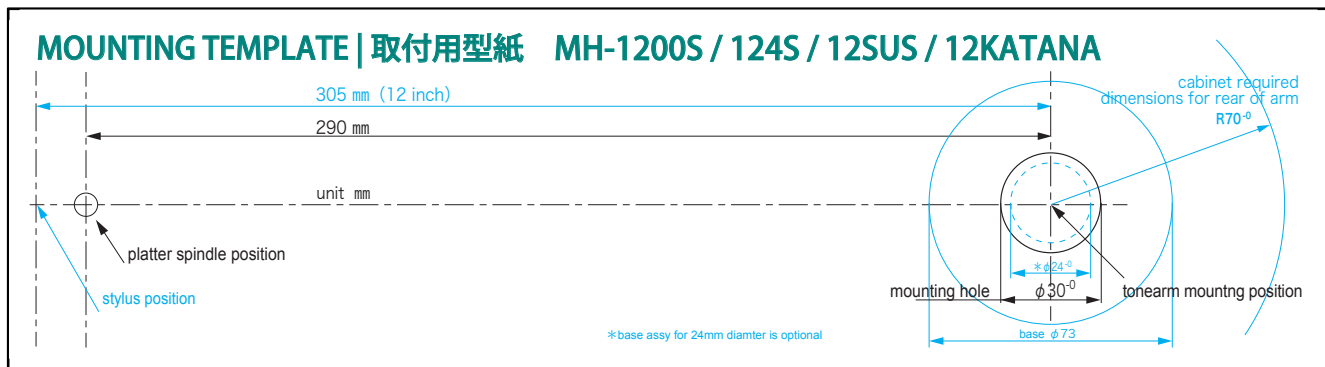


Fig : The drawing shows the template aligned to the turntable

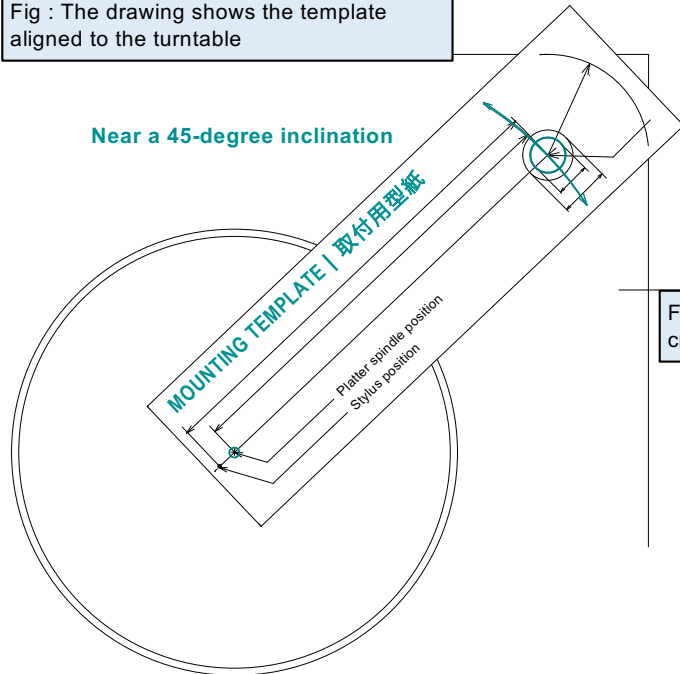
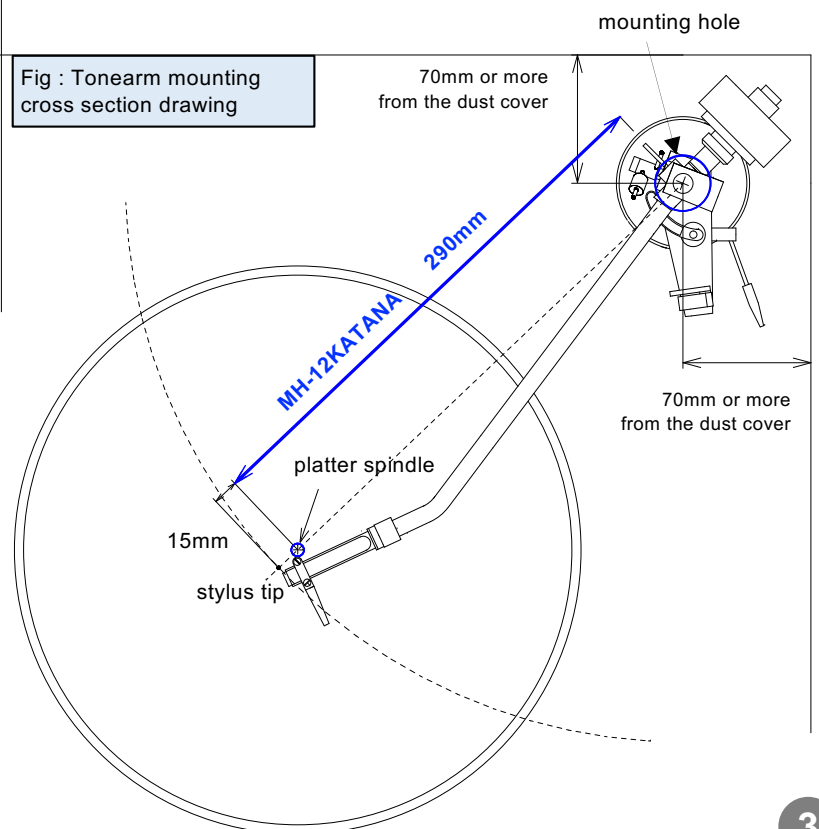


Fig : Tonearm mounting cross section drawing



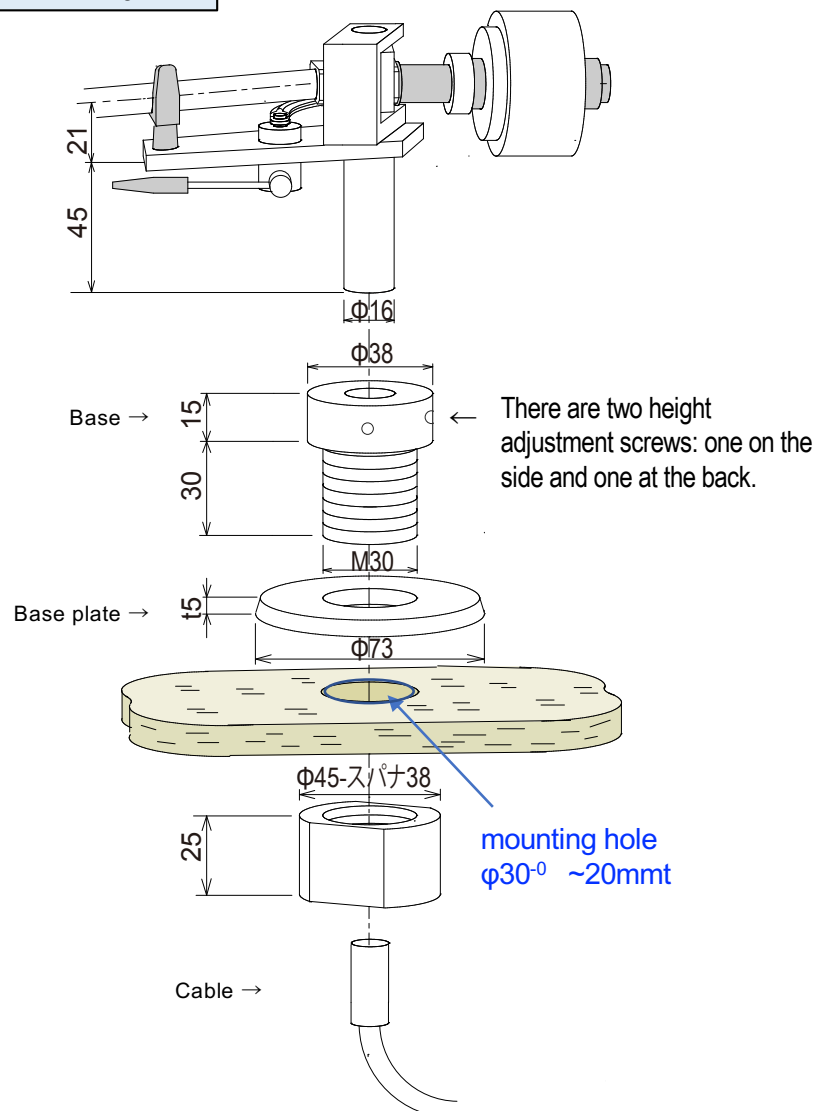
2

Points to be checked

1. Make sure that the distance from the dust cover edge to the rear part of the counter weight has a 70mm or more distance so that it does not hit the dust cover (when the dust cover is used).
2. Make sure that the armbase mounting nut does not hit the surroundings, the nut is able to tighten, or the output cord does not hit the surroundings.
 - ① If the mounting nut hits the periphery, optional base and nut for small hole diameter $\phi 24$ are available [MH-244S].
If the nut still hits the surrounding area even with $\phi 24$, it is possible to drill a hole in the $\phi 73$ plate without using the nut and fix it with wood screws. Please note that if the holes for the wood screws are located too close the inner diameter, they will hit the wood screws when the base is tightened.
 - ② If the mounting board is thick and the screw length is not enough to tighten the nut, consider a long option base [MH-304LS].

For detailed dimensions of the option base, refer to the separately sold S/S Premium – OPTIONAL PARTS (<http://glanz1@com>)
3. Make sure that the horizontal movement range of the tonearm extends to the inner circumference of the record, and that the tone arm operates within a usable range.
4. Do not apply any force to the tonearm when tightens the mounting nut of the base (install the tonearm on after installing the base).
5. For those who install to the mounting plate, please use our exclusive option plate (sold separately S/S Premium – OPTIONAL PARTS (<http://glanz1@com>))

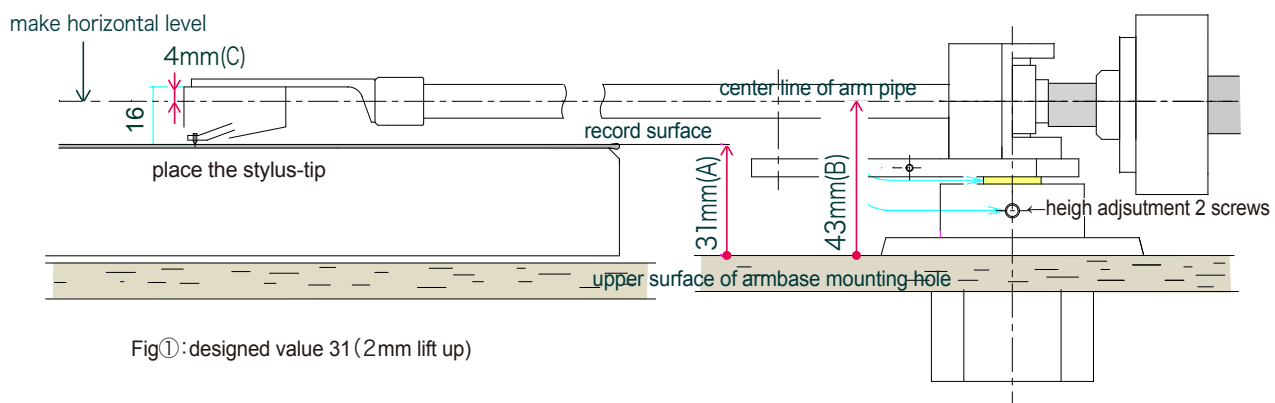
Fig : Tonearm mounting cross section drawing



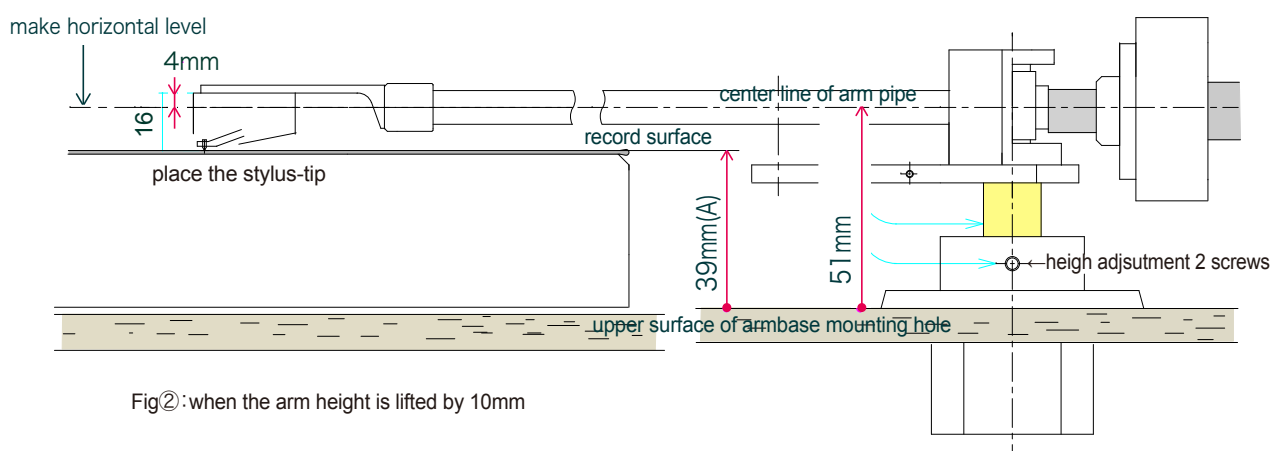
3 Adjustment of tonearm height

1. Adjust the height of the tonearm so that the arm pipe is horizontal when the stylus tip of the cartridge is placed on the record.
2. While the cartridge height varies by each manufacturer, when installing the average height of a 16mm cartridge, considering the extra space that needs to install shorter height cartridge, raise the lift by 2mm to make the dimension from the top of the base mounting hole to the center line of the arm pipe 43mm (see Fig. ①(B)). The distance from the cartridge head shell mounting surface to the center of the tone arm pipe is 4mm (see Fig. ①(C)), so when a cartridge with 16mm height is mounted, $43(16 - 4) = 31$ mm. If a cartridge with 16mm height is installed, the dimension from the top of the base mounting hole to the top of the record will be 31mm (see Fig. ①(A)). Granz uses this 31mm as the design value. For cartridges that are lower than 16mm, such as a 14mm height cartridge is installed, lower the lift by 2mm (lower the lift to the bottom). Even if you do not lower the lift by 2 mm, an error of ± 2 mm will not affect the sound quality. If the height of the turntable platter is too high, it can be used with lifting up by 10mm which makes 39mm from the top of the base mounting hole to the top of the record (see Fig. ② (A)).
3. Loosen the two height adjustment screws (side and back of the base) and lift the tonearm to check the horizontal level (the distance between the center axis of the arm and the record surface is 12mm). It is convenient to place the height adjustment screw at the opposite side of the platter.
4. When the height is decided, tighten the two height adjustment screws.

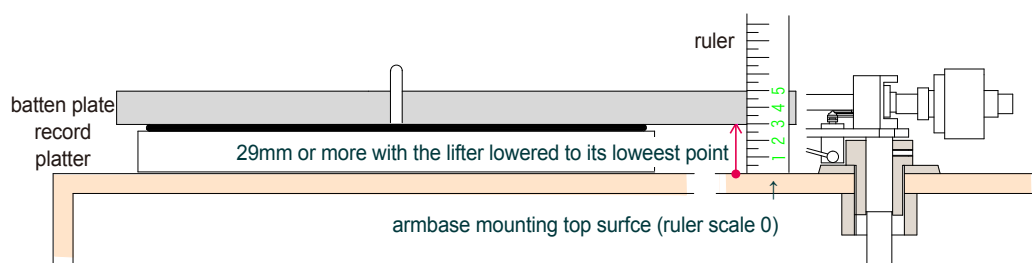
Fig : Dimensional confirmation drawing for mounting the tone arm
(①, ②, ③ are dimensional confirmation drawings)



Fig①: designed value 31 (2mm lift up)



Fig②: when the arm height is lifted by 10mm



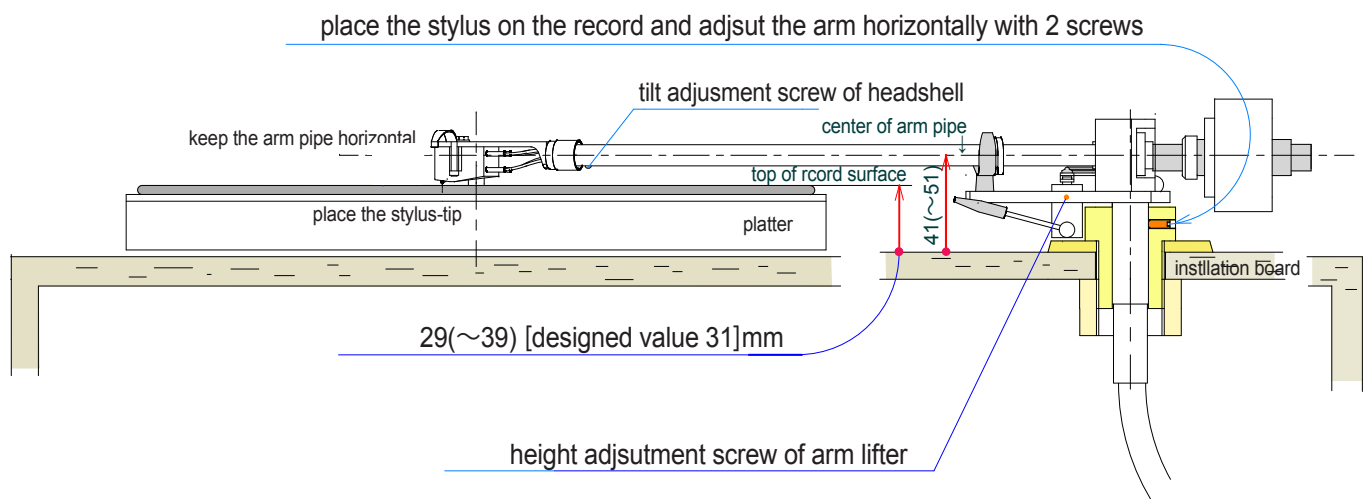
4 Adjustment after installation

After installing the tonearm, we will explain how to adjust the tonearm below.

1. Check the level of the turntable. Adjust the height of the turntable by turning the height adjust foot screws so that the entire turntable is horizontal.
2. Connect the output cable. And, after temporarily attaching the tonearm, insert the counter weight with turning it.
3. Install the cartridge to the head shell and insert it into the tip of the arm, slowly turn the lock nut to close it. Look at the cartridge from the frontward, and if it is tilted, hold the headshell and correct the tilt. If it is stiff, try loosening the headshell tilt adjustment screw on the underside of the arm pipe tip slightly to correct it.
4. When adjusting, the tonearm will move (to the outer circumference of the record) due to the function of the IFC (inside force canceller) so remove the IFC (turn it by hand).
5. Loosen the height adjustment screw of the tonearm, level the arm and adjust it to a height that does not hit the record.
6. Unlock the armrest holder and turn the counter weight to balance the arm pipe so that it is horizontal.
7. Turn the scale of the weight only to set the scale value to 0. Next, turn the weight to match the stylus pressure value of the cartridge (it is about 2g).
8. Place the record on the platter.
9. Hold the finger hook of the headshell and gently place it on the record, but lay a small piece of paper on the record surface and place the stylus tip on it.
10. Loosen the two adjusting screws again so that the arm pipe is horizontal, and adjust the height (adjust with the screw that is easier to adjust, and finally fix the other screw).
11. Loosen and adjust the arm lifter height adjustment screw so that the stylus tip floats about 5 to 10 mm from the record surface when the arm lifter lever is raised (work with great care so as not to damage the record).
12. Install the removed IFC at the end. If the stylus cannot trace the record and is taken to the inner circumference when it is actually played, loosen the screw of the IFC weight, move the weight away from the fulcrum, and stop at a level where the stylus does not jump.

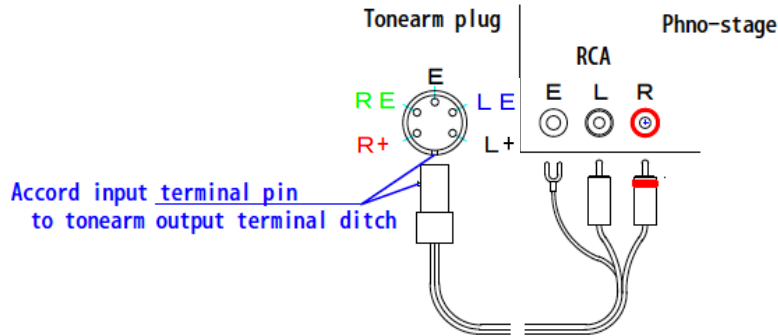
GLANZLAB's tonearm has good trace sensitivity, so remove IFC if you don't need it. The distortion caused by this structure is eliminated.

Fig : Tonearm installation completion drawing



5 Connecting the output cable

1. Push the output cable plug firmly into the Glanz output 5-pin output jack.
2. Connect RCA plugs to relevant terminals of phono-stage, while connecting the U-shaped plug to earth terminal.
3. If you raise the volume slightly, and you hear a “buuuu” sound then you have a problem with poor contacts. Please check the cartridge and the headshell lead wire, the connection point of the headshell and tonearm, the connection point of the tonearm plug and the output cable, and the connection point of the output cable and the amplifier. Pay particular attention to the earth wire leading to the amplifier. If the earth wire is not connected, a “buuuu” sound will be produced.



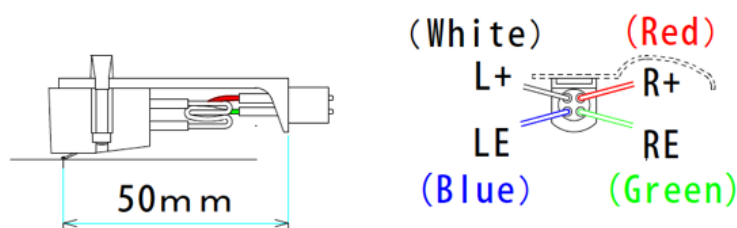
6 Mounting the headshell

1. Please loosen the removable lock nut at the tip of the arm pipe and attach the headshell.
2. Looking at it front on, loosen the lower screw behind the removable lock nut, correct the slope of the headshell, and tighten the screw again.



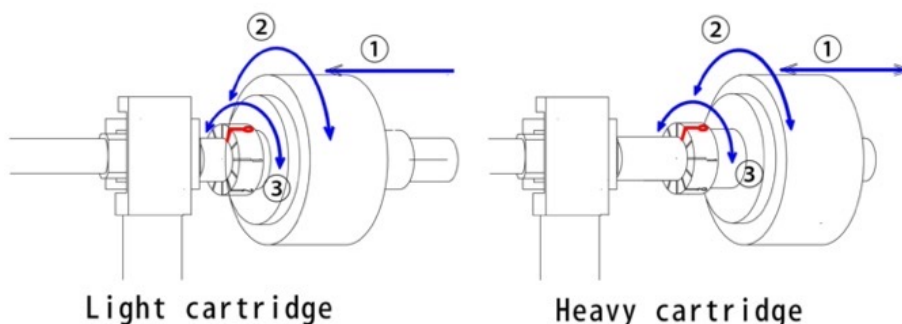
7 Installing the cartridge

1. Fix the position of both the headshell finger lift and the cartridge using a 2.6mm screw to ensure a distance of 50mm (± 3 mm) between them. See diagram below.
2. Customers do not need to tighten the screws excessively, as the central gravitational point of the cartridge is held firmly by the headshell, due to the relative narrow width of the headshell. We recommend that you do not tighten the screws too firmly, as Glanz has deliberately selected stainless steel screws in order to enhance sound quality.
3. Connect the lead wires from the cartridge to the inner terminals of the headshell, as shown in the diagram below. (Diagram shows the position of the wires facing the inner terminal from the cartridge)
4. Do not remove the black rubber attached to the upper plate of the headshell, as this works as an essential damper.
5. Do not insert any rubber at the connection point between the headshell terminal and the tonearm pipe, as Glanz recommends direct mechanical contact at this connection point.



8 Adjustment of needle pressure

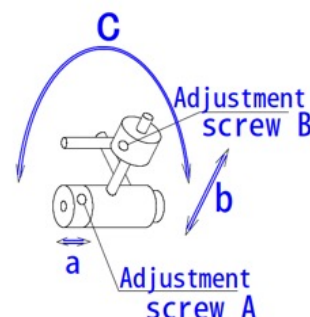
1. Please move the main weight towards the scale ring.
2. Rotate the main weight until balance is achieved and the arm becomes horizontal.
3. Without rotating the main weight, please rotate only the scale ring until the cursor points to the red line (0).
4. Rotate the main weight (Step 2), and calibrate the cursor to the specific needle pressure of the cartridge, in grams. (If your cartridge needle pressure is 5g, you may have to rotate it once or even twice more.) The scale number represents grams.



When you have a heavy cartridge, and cannot balance it, move the main weight slightly in the direction of ① (from the center of the shaft to the tip) and then start again from ②.

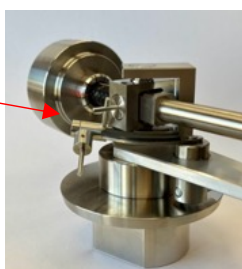
9 Adjustment of the inside force canceller(IFC)

1. First of all, with the use of a level, ensure the turntable is completely flat.
2. In order to calibrate the inside force canceller, loosen screw B and move it in the direction of 'b'. (As a rule, since the inside force canceller is proportional to needle pressure, and can vary according to the shape of the stylus and the condition of the grooves of the vinyl record, there is no numerical value on the bar.)
3. In the event that the needle jumps onto the inner part of the record, please increase the inside force canceller. Once you have made the adjustment, please lightly tighten screw B. However, you may remove the inside force canceller if it doesn't seem that this will result in needle jump. (This allows you to enjoy even clearer sound quality.)
4. If you want to reinstate the inside force canceller, please do so by firmly screwing in the 2 x 2mm screws, and move it in the direction of 'a' by adjusting screw A, so that the movement of the weight moves smoothly in the direction of 'C'.



NOTE : The Inside Force Canceller (IFC) is manufactured with great precision. When removing the arm from the arm base and temporarily placing it during installation, be careful not to apply force to the IFC. If force is applied, the mounting rod screw may bend (see ② below). If the mounting rod threads are bent, the IFC will not move smoothly and will not function. The IFC must be replaced as an assembly (fee applies) and should be handled with care.

①When force is applied, the threads on the mounting rod bend, lifting the IFC upwards.



②The threads on the mounting rod are bent.

③The IFC is installed horizontally, which is the normal position.

