

# TT1 MI



Loving music

User manual



## User manual

**Dear audio enthusiast,**

Thank you for your decision to purchase the *Master Innovation TT1 MI* tangential tonearm from **Clearaudio**.

Please take a moment to read this owner's manual to ensure correct set-up, avoid any potential damage and discover how to care for your *Master Innovation TT1 MI* so that it gives you many years of musical enjoyment and pleasure.

We wish you much pleasure with your new **Clearaudio Statement TT1** tangential tonearm.

**Clearaudio** electronic GmbH

### Warnings

Do not expose the equipment to rain or moisture.

Do not remove the cover from the equipment.

No naked flame sources, such as lighted candles, should be placed on the equipment.

Never insert the oil into the precision bearing as this will result in damage of bearing.

Tonearm only suitable for installation on **Clearaudio Innovation** and *Master Innovation* turntable.

### Copyright

Recording and playback of any material may require consent. For further information refer to the following

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972

Any subsequent statutory enactments and orders.

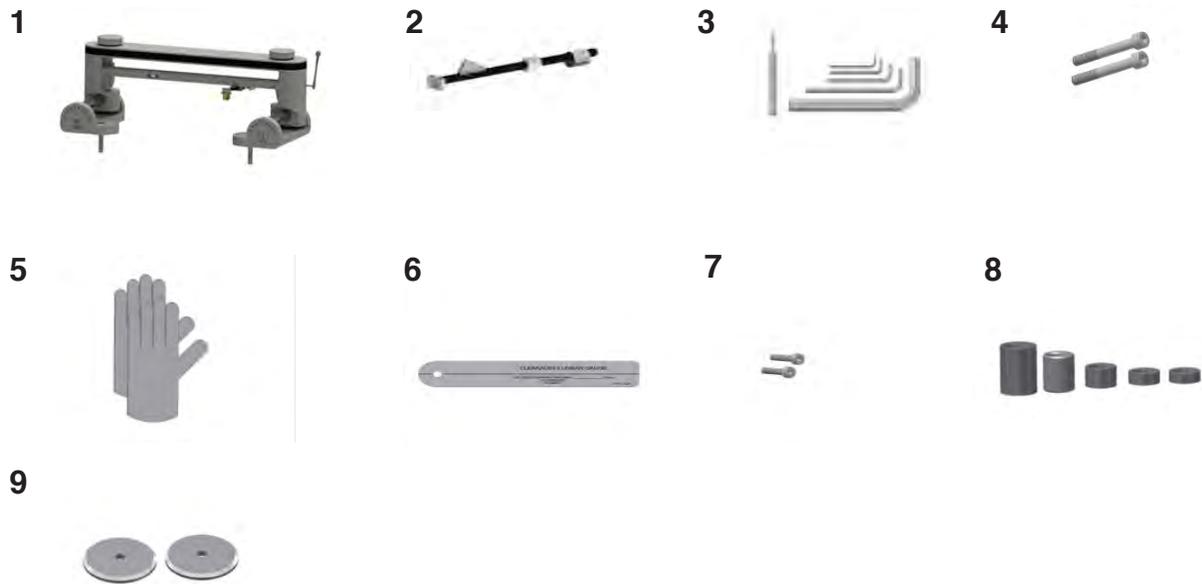


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## 1. List of components

The **Clearaudio TT1 M** tangential tonearm is delivered in specially designed packaging to ensure its safe transport. Please check that the contents are as shown below and listed at the bottom of the page:



**Pic. 1:** List of components

<b>1.</b>	Tonearm chassis	<b>6.</b>	Cartridge alignment gauge
<b>2.</b>	Armwand	<b>7.</b>	Cartridge mounting screws
<b>3.</b>	Bag of hex wrench: 1.5/8mm	<b>8.</b>	Main counterweights
<b>4.</b>	2x large hex socket headed bolts	<b>9.</b>	2x spacer discs
<b>5.</b>	White gloves	<b>10.</b>	User manual, warranty card and return delivery note (not shown)



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### 2. Package overview

The TT1 MI is packed in a special foam packaging and comes almost completely assembled.



**Pic. 2:** Package overview

**Please note:**

The armwand is packed separately and need to be installed.



**Pic. 3:** Armwand

Additional parts, accessories and tools are also packed separately.

### 3. Front and rear view of assembled *TT1 MI* tonearm

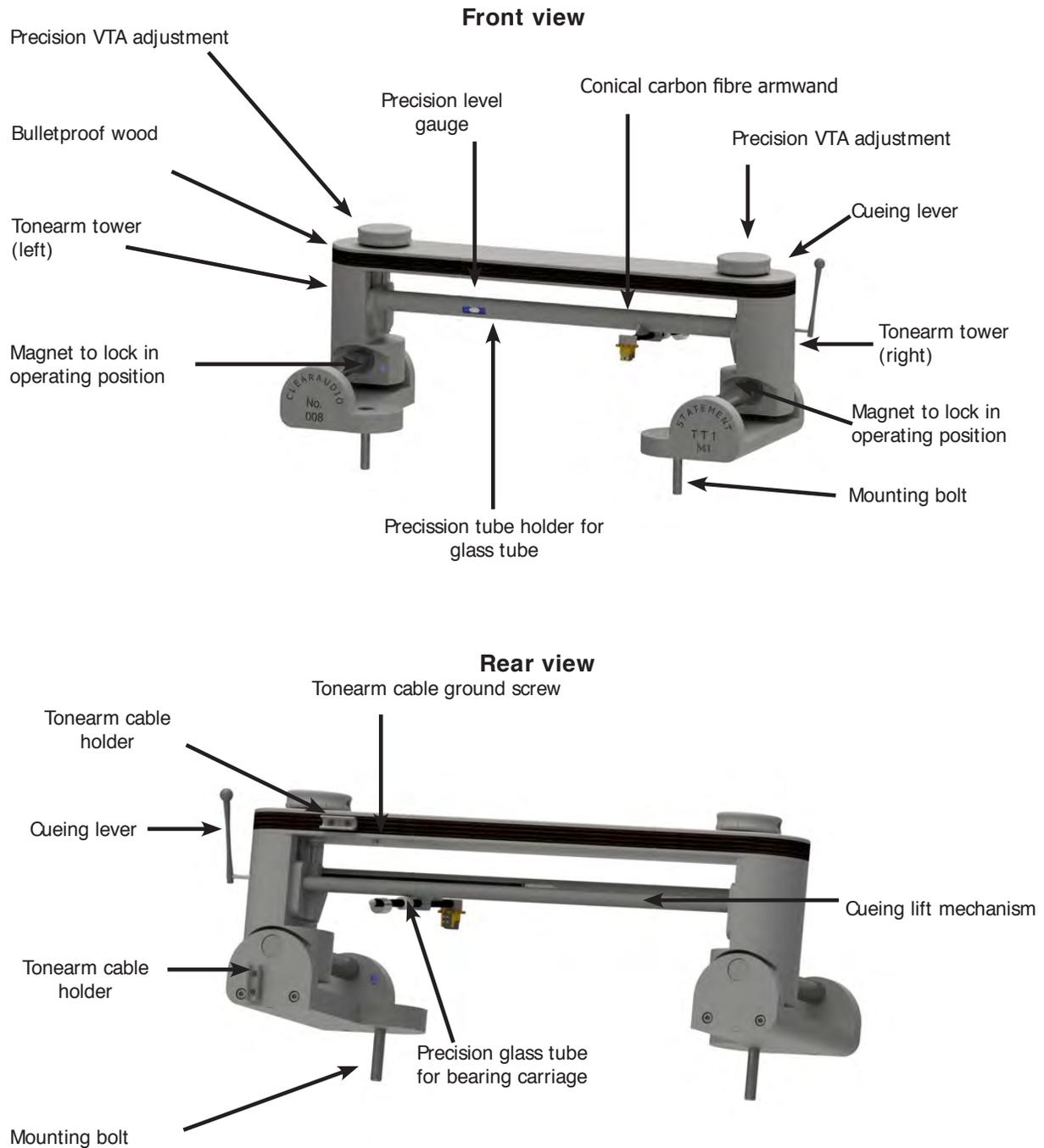


Fig. 4: Front and rear view

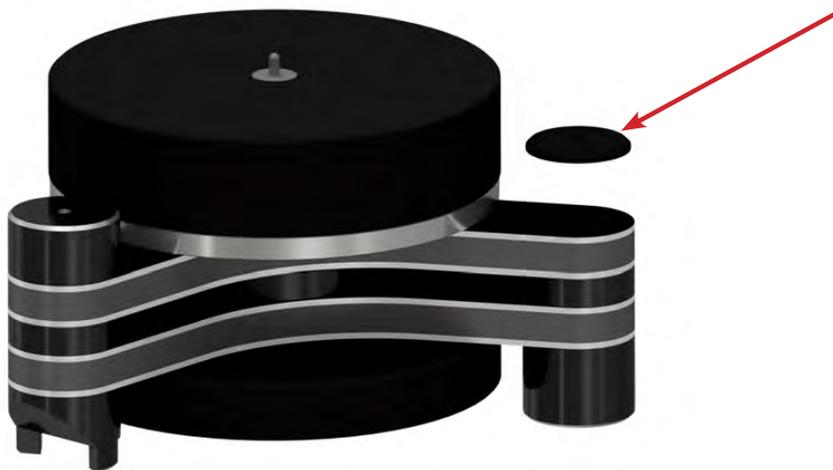
## 4. Assembly and operation

After checking that the package contents are as described, place the parts on a clean and flat surface in preparation for set-up. Assembly and set-up of the *TT1 MI* are quite straightforward, as most parts have been factory preassembled.

Please use the white gloves provided to avoid introducing scratches and/or fingerprints during assembly.

First, position the two spacer discs (see page 4, package content No. 9) onto the *Master Innovation* turntable. Please note, you may need to remove the previous discs/cylinders first.

Please use only the spacer discs provided, as they are specifically height-matched for the *TT1 MI* tonearm.



**Fig. 5:** Placing the stainless steel spacer discs onto the *Master Innovation* turntable

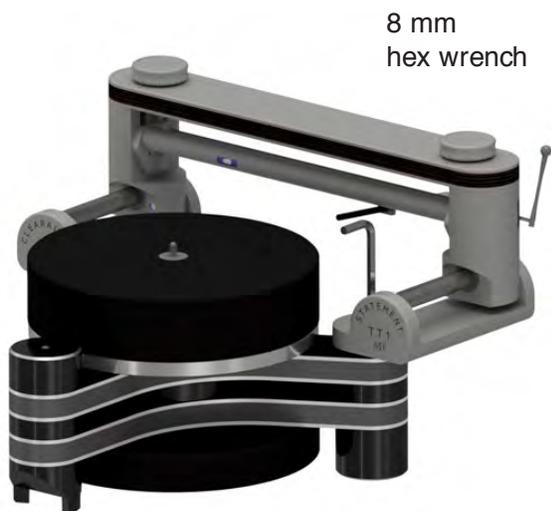
## 5. Mounting the *TT1 MI* tonearm on the *Master Innovation* turntable

Place the tonearm chassis on top of the two spacer discs. Lift it carefully, making sure that the sliding tonearm bridge is positioned to the rear of both sliding bases as shown in picture 5. While holding it in place insert the two large hex socket headed bolts provided (see page 4 package content No. 4) and tighten them (see picture 6).

**Please note:** Always hold the tonearm in place while tightening the mounting bolts.



**Pic. 5:** Placing the tonearm chassis on the spacer discs



**Pic. 6:** Tightening the mounting bolts

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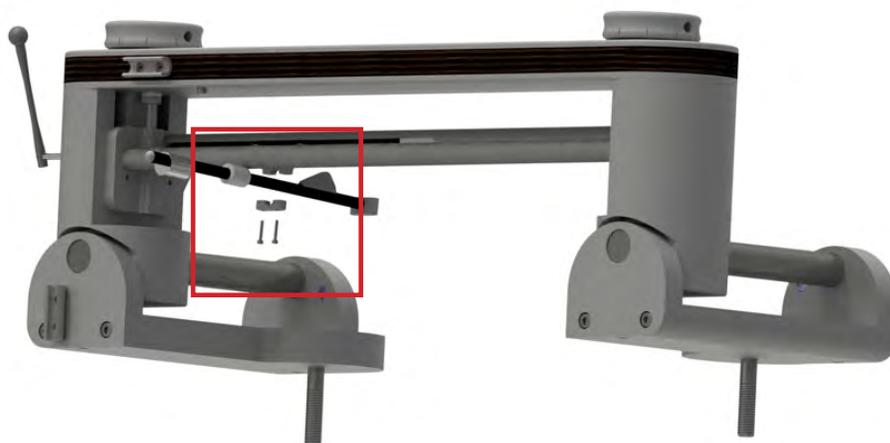
**Please note:** You may need to readjust the levelling of the Master Innovation turntable once you have fully completed set-up of the *TT1 M* tonearm.

**Please take great care in undertaking the following steps.**

Remove the rubber band which is used as transportation lock. Afterwards loosen the screws from the aluminum block and remove the second transportation lock.



**Pic. 7:** Pre-mounted bearing carriage and glass tube with transportation lock



**Pic. 8:** Mounting of the armwand

Mount the armwand to the bearing carriage with the aluminum block and the two screws again.



**Pic. 9:** Mounted armwand

## 6. Cartridge pre-adjustment / adjustment

First mount the cartridge into the headshell using the two headshell screws provided (Page 4 No. 7).



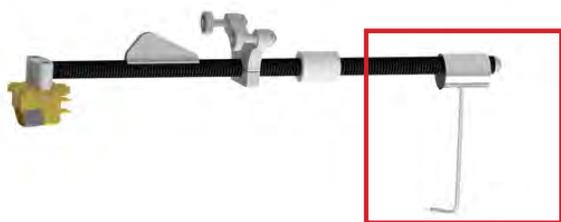
**Pic. 10:** Mounting of the cartridge

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Slide the appropriate exchangeable counterweight, dependent on the used cartridge, over the back of the armwand tube and adjust the correct tracking force. Please hold the armwand carefully so you don't apply too much force to the bearings. For the best results we recommend using **Clearaudio's** *Weight Watcher* stylus pressure gauge (Art. No. AC094, available through [www.analogshop.de](http://www.analogshop.de)).

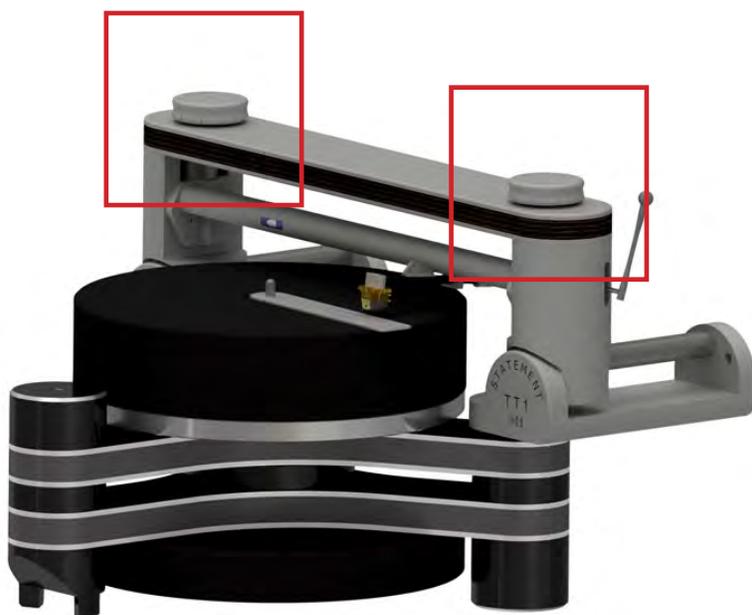
Example:

- For the **Clearaudio** *Goldfinger Statement* use the 10g counterweight
- For the **Clearaudio** *Titanium* use the 5g counterweight



**Pic. 11:** Counterweight adjustment

Turn the two knobs (wheels) of the precision VTA adjustment on top of the tonearm until the armwand axis is parallel to the record surface.



**Pic. 12:** Cartridge pre-adjustments

### Cartridge adjustment

Place a record onto the turntable platter in before starting the final adjustments.  
The correct tangential adjustment is essential. To ensure the correct adjustment, use the cartridge alignment gauge, which must first be placed on the spindle.

The diamond tip of the cartridge must be always aligned in the black line of the gauge.  
This fine adjustment can be realised by moving the armwand back or forwards. Simply lock or unlock the screw on the bottom of the carriage.



**Pic. 13:** Cartridge adjustment

Re-adjust the tracking force and set the cartridge Azimuth so that it is in a vertical position when viewed from the front. Make a final check of all the parameters – tonearm level, armwand level, cartridge alignment and tracking force.

**Attention:** Before first use or after a long period of storage, please move the cueing lift up and down approximately 4-5 times so that the oil inside can flow allowing the cueing lift to operate smoothly.



## 7. Technical data

<b>Construction details:</b>	High, precision mechanical, ultra low friction, linear tracking design.
<b>Drive</b>	– Strictly mechanical – Selected high precision ball bearings running in a calibrated polished glass tube
<b>Wiring:</b>	2 m Sixstream Super Wire terminated with RCA
<b>Total weight:</b>	approx. 8.2 kg
<b>Dimensions (W/ D/ H in inch):</b>	21.26 x 7.87 x 7.68
<b>Dimensions (W/ D/ H in mm):</b>	approx. 540 (incl. lift unit) x 200 x 195
<b>Warranty:</b>	5 years*

\* Provided that the warranty card is correctly completed and returned to **Clearaudio** within 14 days of purchase.

**Clearaudio** electronic is not responsible for typographical errors in descriptions.  
 Technical specifications subject to change or improvement without prior notice.  
 Product availability is as long as stock lasts.  
 Copies and reprints of this documents, including extracts, require written consent from  
**Clearaudio electronic GmbH; Germany**

## 8. Special notes

### 8.1 Maintenance

If the *TT1 M* tonearm is not in use for a long period, please cover the tonearm to protect it from dust.

The glass tube can be cleaned with pure alcohol.

Please make sure that the precision dry ball bearings are not be touched, cleaned or lubricated in any way. Please only clean the glass tube.

#### **WARNING:**

**Never insert the oil into the precision bearing as this will result in damage of bearing.**

### 8.2 Transportation

Should further transportation of the *TT1 M* tonearm be necessary, please always use the original packing material. Otherwise serious damage could occur.

### 8.3 Service

If any servicing or repair of a **Clearaudio** product is necessary, please first contact your dealer or distributor. Alternatively contact **Clearaudio** directly and we will advise you of your nearest service location.

PLEASE RETAIN ALL ORIGINAL PACKAGING. You will need it if this product has to be transported and/or shipped. Any further questions you may have about this product should be directed to your local dealer or direct to **Clearaudio**.



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To achieve the full **Clearaudio** warranty, it is necessary that you fill out and send the corresponding part of the warranty registration certificate /card back to **Clearaudio**, within two weeks after purchase. Only if the product is returned in its original packing **Clearaudio** can provide the warranty of 5 years for the *TT1 M* tonearm .

### ENGLISH WARRANTY

For warranty information, contact your local **Clearaudio** distributor.

#### **RETAIN YOUR PURCHASE RECEIPT**

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with **Clearaudio**.

#### **IMPORTANT**

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

### FRANÇAIS GARANTIE

Pour des informations sur la garantie, contacter le distributeur local **Clearaudio**.

#### **CONSERVER L'ATTESTATION D'ACHAT**

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieu sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec **Clearaudio**.

#### **IMPORTANT**

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de l'achat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

### DEUTSCH GARANTIE

Bei Garantiefragen wenden Sie sich bitte zunächst an Ihren **Clearaudio** Händler. Heben Sie Ihren Kaufbeleg gut auf. WICHTIG!

Die Angaben auf Ihrer Quittung erlauben uns die Identifizierung Ihres Gerätes und belegen mit dem Kaufdatum die Dauer Ihrer Garantie-Ansprüche. Für Serviceleistungen benötigen wir stets die Gerätenummer. Diese finden Sie auf dem Typenschild auf der Rückseite des Gerätes oder auch in der beigefügten Garantie-Registrierkarte.

### NEDERLANDS GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke **Clearaudio**.

#### **UW KWITANTIE, KASSABON E.D. BEWAREN**

Uw kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing bijv. in verbind met verzekering of bij correspondentie met **Clearaudio**.

#### **BELANGRIJK**

Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.