



# **Reed 1H**

**tonearm**

**User manual**



Figure 1

## 1. Tonearm assembly

- a) Unpack box contents (*Figure 1*)  
 Please read the User Manual before starting to assemble tonearm. Not following assembly instructions may permanently damage the tonearm.



Figure 2

- b) Take out the tonearm base [2] (*Figure 2*).

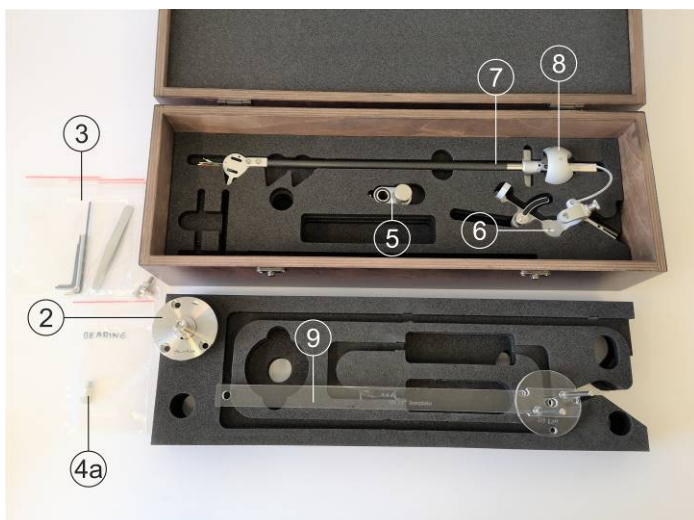


Figure 3

- c) Remove the top packaging layer. Put tonearm base [2] into a hole of package top layer.  
 d) Take out all the accessories [3], the top bearing [4a], the template [9] and a counterweight [5].  
 e) Take out the tonearm body [6] tonetube [7] and frame [8] (*Figure 3*).

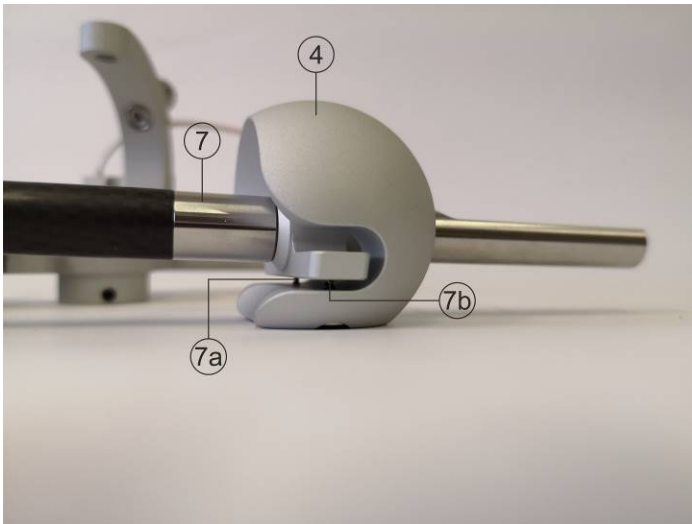


Figure 4

- f) Insert armtube [7] into a frame [4]  
**Needles of the bearings [7a] and [7b] must be embed in sapphire V cup (Figure 4).**

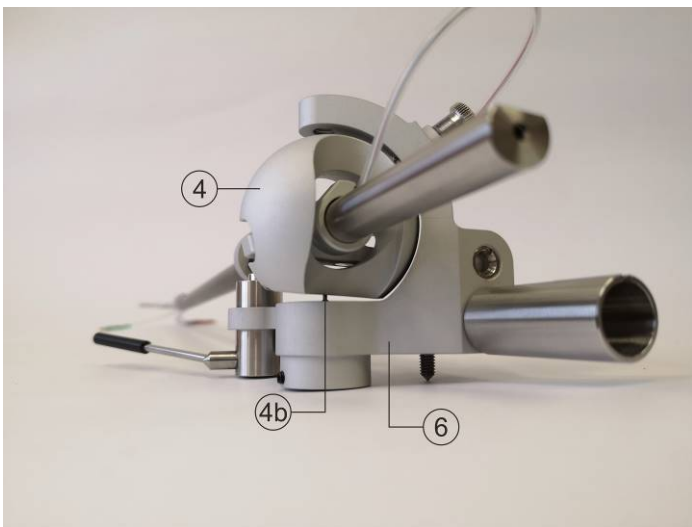


Figure 5

- g) Set an armtube with frame [4] on a bottom bearing [4b] in tonearm body [6]. **Needle of the bearing [4b] must be embed in sapphire V cup (Figure 5).**

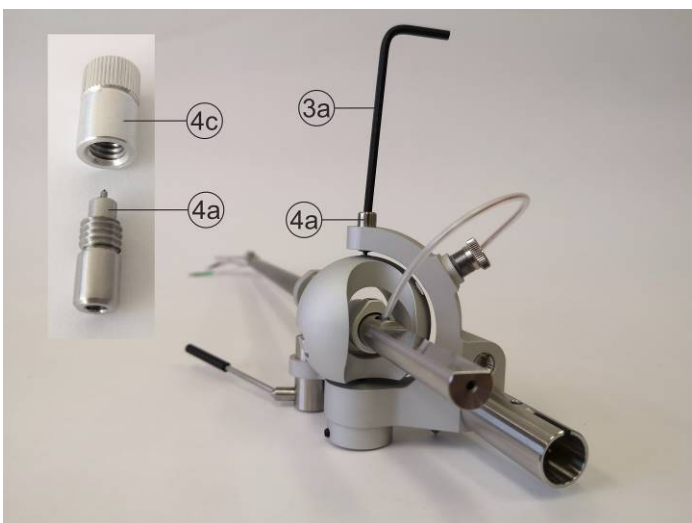


Figure 6

- h) Screw out the top bearing [4a] (Figure 3, 6) from bearing protection [4c]. Take the hex (allen) key [3a] (Figure 6) from accessories [3] (Figure 3).
- i) Screw in a top bearing [4a]. **Needle of the bearing must be embed in sapphire V cup.** Bearing should be screwed in tight, however do not apply excessive force. Check if both axis bearings [4a], [4b] (Figure 5, 6) and [7a], [7b] (Figure 4) are in correct positions.

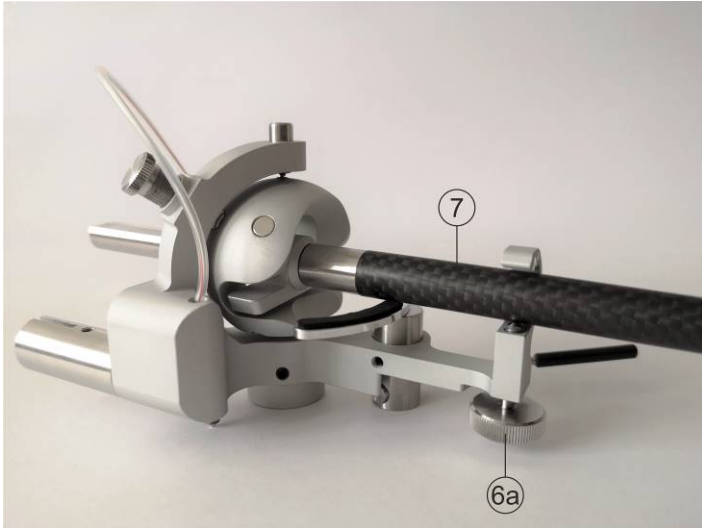


Figure 7

- j) Set armtube [7] in rest position and fasten it with the screw [6a] (Figure 7).

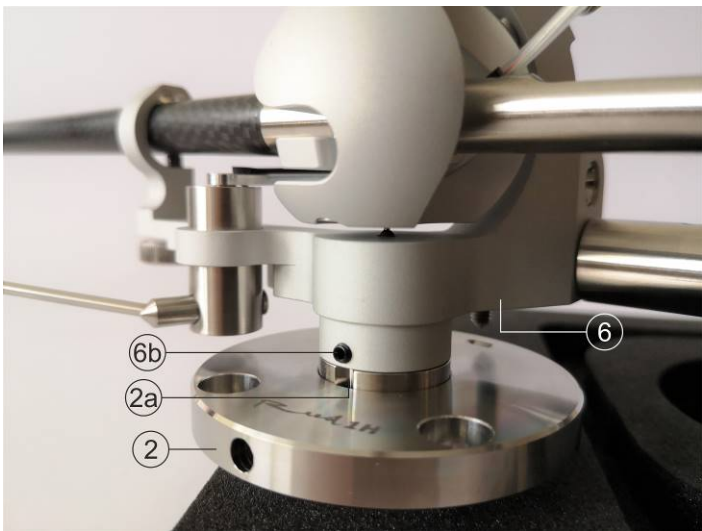


Figure 8

- k) Set tonearm body [6] on the base [2]. Fixing screw [6b] must match with the groove [2a] in tonearm base. Fix the screw [6b] with hex (allen) key from accessories (Figure 8).



Figure 9

- l) Fix the screw [6c] on the other side of tonearm body [6] (Figure 9).

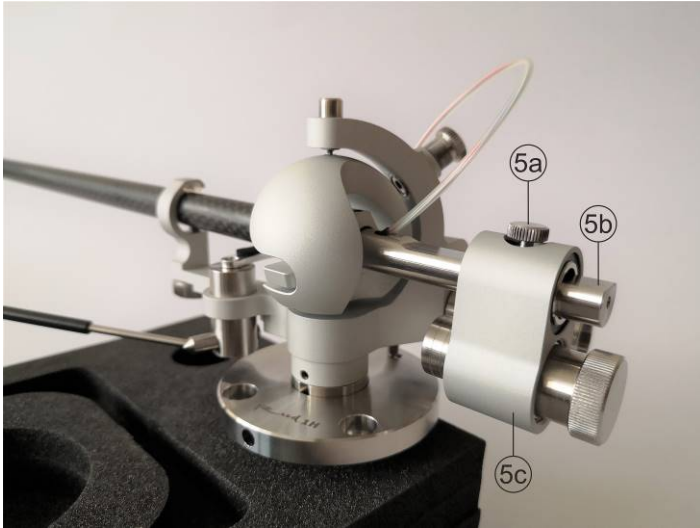


Figure 10

## 2. Tonearm mounting

- a) Attach a cartridge of your choice to headshell.

Be careful while connecting or disconnecting wire connectors to the cartridge, because tonearm wiring is very fragile. For connecting and disconnecting wires, use tweezers. Always pull the wire by its connector and **never** pull by wire itself.

- b) Put counterweight frame [5c] onto the holder [5b] and fasten it with the screw [5a], as shown in Figure 10.



Figure 11

- c) Mount the tonearm onto a turntable using template [9] (Figure 3) and protractor [1] (Figure 1).
- d) On the turntable, mark three tonearm base mounting holes using Reed mounting drawing and check the position with the template (Figure 11).
- e) Drill three 4.2 mm holes and thread them with M5 thread.
- f) Fix the armboard in a designated place using a template (Figure 11).

- g) Use protractor [1] (Figure 1) to set correct cartridge position.

- h) Armtube should coincide with the dashed part on the protractor when armtube is in rest position (Figure 12).



Figure 12



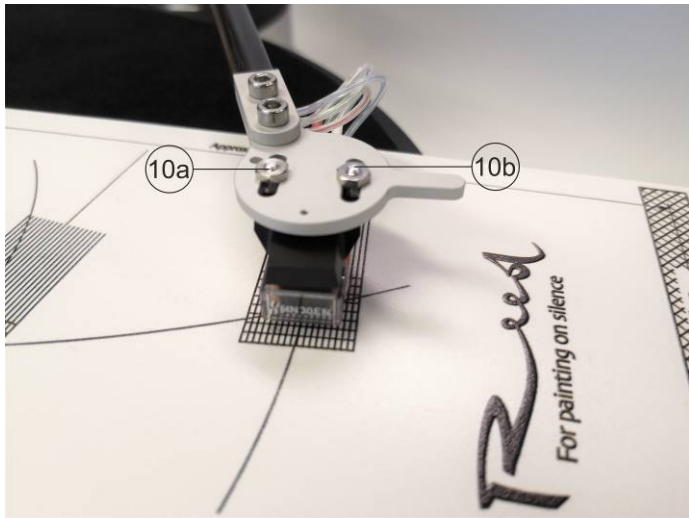


Figure 13

- i) Cartridge should align with the vertical and horizontal lines and the needle should point at both zero positions marked in the protractor. To align the cartridge use screws [10a] and [10b] in the headshell cutouts – unscrew them and slide while the cartridge will be in correct position with vertical and horizontal lines and both zero positions (Figure 13).

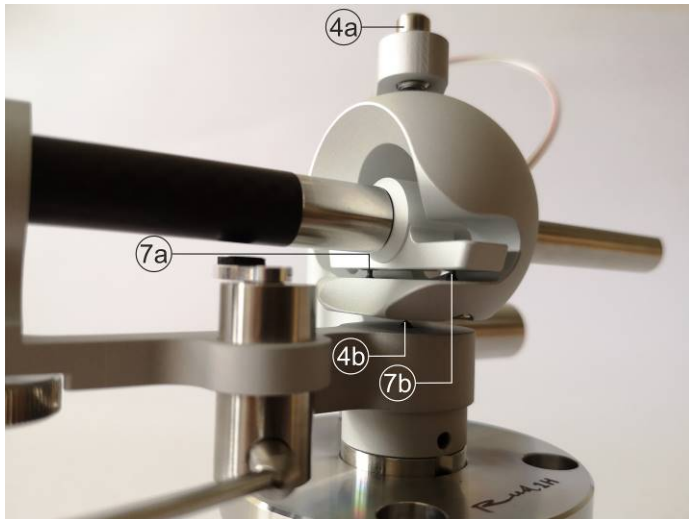


Figure 14

## WARNING!

**Before using your tonearm (making adjustments or playing LPs) make sure that bearings of vertical and horizontal axis - [4a], [4b] and [7a], [7b] are in correct position (Figure 14).**

**Failing to set bearings and pivots correctly may permanently damage the cartridge, tonearm and LP.**

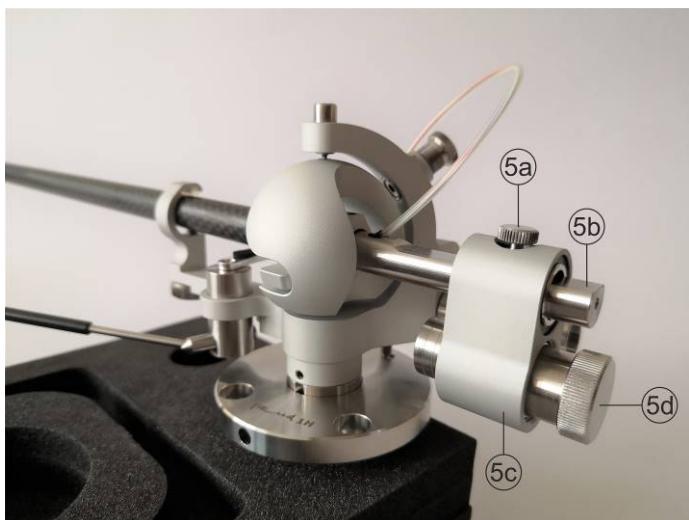


Figure 15

### 3. Vertical Tracking Force (VTF) adjustment (Figure 15)

- a) Screw counterweight weight [5d] out of the frame [5c] until front of a counterweight aligns with frame's surface (i.e. it should not stick from a frame)
- b) Set tonearm balance by sliding counterweight frame [5c] on the holder [5b].
- c) After setting the balance fasten counterweight frame [5c] with a screw [5a].
- d) Screw in the counterweight weight [5d] forward by two segments. After VTA setup (Step 4) finalize VTF using scales.

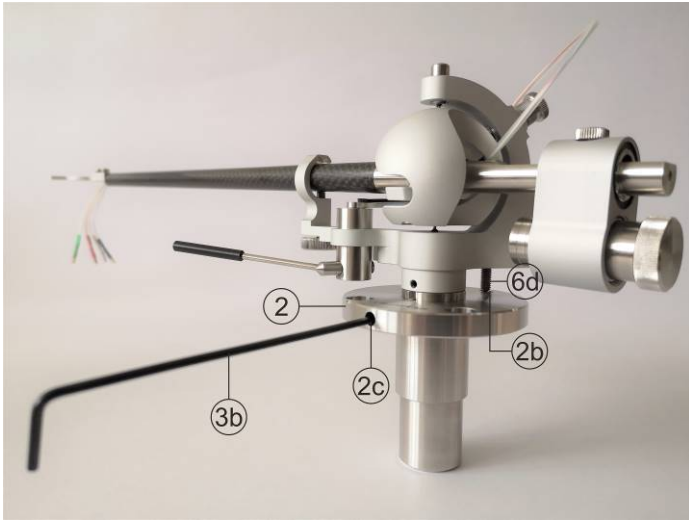


Figure 16

#### 4. VTA (Vertical Tracking Angle) adjustment

- a) VTA adjustment screw [6d] must be screwed in and rest in the groove [2b] in the tonearm base [2] (Figure 16)
- b) Rotate armtube on the record and let down cartridge.
- c) Loosen the tonearm base fixing screw [2c] with hex (allen) key [3b] (Figure 16).

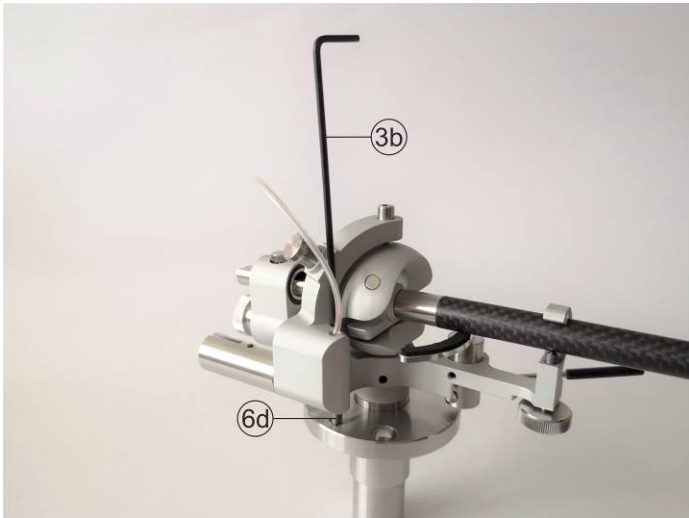


Figure 17

- d) Adjust armtube height by making it parallel to the record. To regulate height, screw in or out VTA adjustment screw [6d] with hex (allen) key [3b] (Figure 17).
- e) When VTA is adjusted fix tonearm base [2] with a fixing screw [2c] (Figure 16).
- f) Make sure to check VTF setting using scales.
- g) Lift up the microlift.

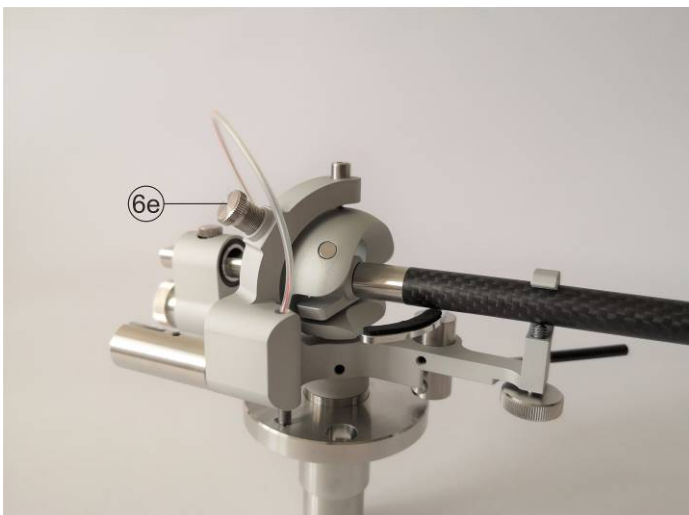


Figure 18

#### 5. Antiskating adjustment (Figure 18)

- a) Adjust antiskating force (using test record) by turning the handle [6e]. Antiskating force is increased by turning handle clockwise and decreases by turning handle counterclockwise.
- b) Antiskating can be adjusted while playing LP.

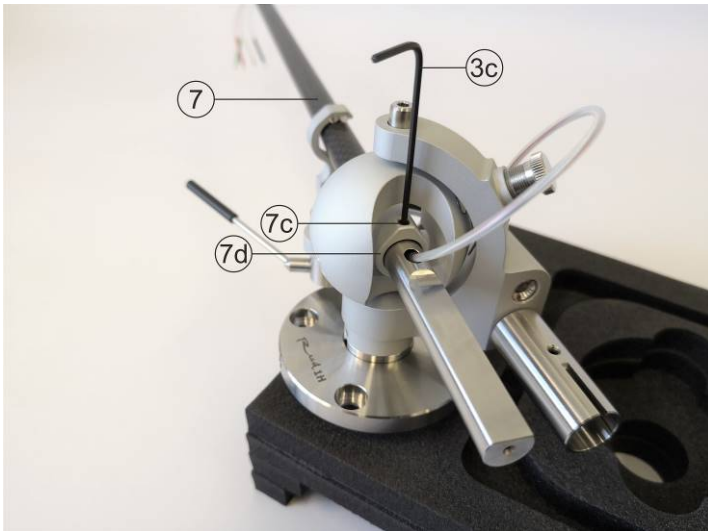


Figure 19

## 6. Azimuth adjustment (*Figure 19*)

- a) If you need to adjust azimuth, hold the armtube cylinder [7d] and loosen screw [7c] by using  $s=1.5\text{mm}$  Allen key [3c].
- b) By carefully turning the armtube [7] clockwise or counterclockwise adjust azimuth and tighten fixing screw [7d].