

# Muarah MT-2 turntable User Manual

*Muarah*

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V1.0



Our mission is to make surrounding reality inspiring for eyes and for ears. We follow the idea of Open Eyes Economy where customer satisfied of high quality product and service is more important than pure financial profit for manufacturer. Our goal is to offer novel, luxury things – things with a bit of creator's soul. Using those special things shall be a pleasure for its owner.

So, relax and spend a while with us...  
Jacek Siwiński & Wiesław Zawada



## 1. Muarah MT-2 – high quality analogue turntable supporting tonearms with 9” to 12” effective length

Thank you for choosing our product which was built in Poland with pride and patience. Unique construction and technology of Muarah turntables gives our customers opportunity to play vinyl records with great sound quality. Whereas our modern design should satisfy even the most demanding Hi-End audio lovers.

MT-2 turntable was created based on our great experience from building best in class turntables. In fact it is result of evolution of Muarah MT-1 towards some simplification but also with great functionality extension of the device. Unique solution is our arm-board with easy effective length change, enabling adaptation to wide range of tonearms of effective length from 9” to 12”. MT-2 is in standard offered with well known tonearms from Jelco – Japan brand, however it is possible to utilize many different tonearms from other producers. However as we didn't test our turntable with all tonearms available on the market, in case of any problems in turntable leveling, please contact us via e-mail on: [muarah@muarah.pl](mailto:muarah@muarah.pl)



*Chart 1: Identification and naming of the turntable parts.*



## 2. MT-2 turntable main features

- Solid construction, incl. platter weighting c.a. 3.5 kg, ensures great bass control, low distortion level and good rpm speed control.
- Acrylic turntable base platform in „sandwich” construction – additional isolation from motor or environment originated vibrations.
- Full – acrylic plater of 40mm thickness, resulting in good vibration damping and resonance elimination.
- High quality synchronous motor built in heavy weight housing to eliminate vibrations.
- Choice of two popular record rotary speeds: 33 1/3 or 45 rpm, manual change through the drive belt move on the pulley.
- Precise and easy leveling mechanism featuring two rotating knobs.
- Advanced bearing designed made for long life even w/o lubrication – including ceramic bearing, hardened steel shaft and Teflon bearing.
- Easy adjustment of the tonearm mounting plate (and consequently tonearm pivot placement) from the main bearing pivot point in the range of +/- 8.5cm, ensures great compatibility with wide range of 9 to 12-inch tonearms.
- MT-2 turntable is in standard configuration offered with popular tonearms from Jelco.
- On customer's request we can offer free of charge adaptation plate for any 9-inch length tonearm. We recommend tonearms from reputable brands, such as: Jelco, SME, MORCH, REGA, CLEARAUDIO.
- Wide range of compatible gives opportunity to experiment with selection of phono cartridges and sound of the entire system.



### 3. Selection of the tonearms

In general Muarah turntable is offered as a set with Jelco tonearm and w/o phono cartridge, however it is also possible to purchase the “deck only” version. Exchangeable tonearm mounting plate of the Muarah turntable causes, that practically the only limitation of tonearm selection is its effective length – in the wide range of c.a. 9 to 12 inches. In standard configuration the turntable is offered with mounting plate for Jelco tonearms. On customer's request we can offer free of charge adaptation plate for any 9 - 12” length tonearm. We recommend following tonearms as best suited to our turntable: Jelco, SME, Morch or Rega top models. However as we didn't test our turntable with all tonearms available on the market, in case of any problems in turntable leveling, please contact us via e-mail on: [muarah@muarah.pl](mailto:muarah@muarah.pl)

### 4. Installation

WARNING: it is recommended to involve two persons in the turntable installation process. It is recommended to use latex gloves when putting big parts together, which improves grip and prevents from leaving fingerprints on high gloss parts.

1. At first, please pick up the 3 acrylic disks with chromed cone inserts (cone feet supports). Place the discs in appropriate order and distances – see chart 2.

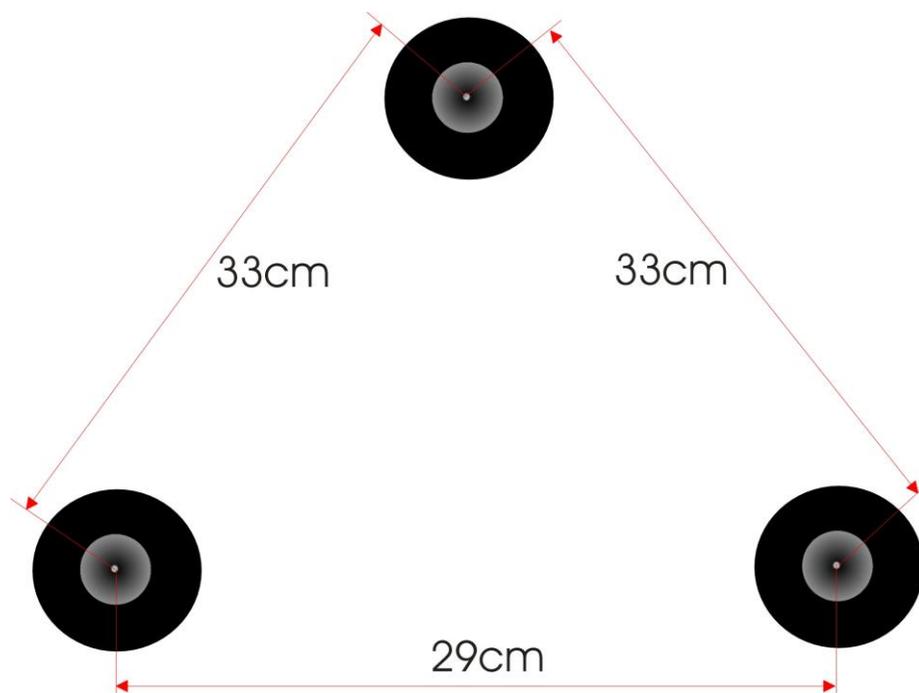


Chart 2: Placement of cone feet supports, distances.

2. Pay attention to place the turntable in appropriate distance from other electronic devices e.g.: amplifier (due to possible interferences). Recommended distance is minimum 20 cm.
3. Carefully pick up the platter covered in plastic bag. Take off the bag with patience, than leave the platter in safe place – e.g. on the plate of the packing foam.
4. Pick up the motor and leave it in the safe place as well.
5. Carefully take the main part of the turntable out of the box (the main board, bearing). It is recommended to use latex gloves, included in the box.
6. The main board of turntable should be placed on acrylic/chrome feet supports, first located in appropriate order according to chart 2.
7. Gently put the turntable chassis on the feats made of the acrylic discs with metal inserts.
8. Pull up the rear of the turntable chassis in order to free up some space for putting motor in place. Place the motor, than place again the chassis on the rear feet. Pay attention to place the cone feet exactly in its place on the feet support.
9. If it is required to adjust distance of tonearm pivot from the main bearing pivot point, please unscrew the four bolts, mounting the tonearm support to the main frame, move the part to achieve required distance and at the end screw on the bolts with moderate force – see Chart 3.
10. Now it's time to install the tonearm, according to the actual tonearm producer's instructions.
11. If Jelco tonearm is within the set, for the pivot to spindle distance adjustment please use plastic adjustment tool provided in the tonearm box.

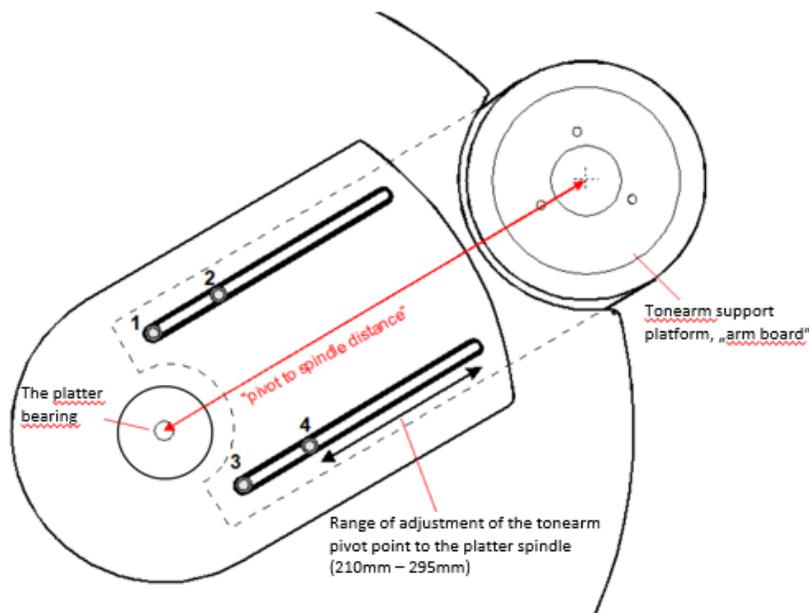


Chart 3 Identification of arm board support adjustment screws.



12. Carefully remove the plastic sleeve preventing the bearing ball from slipping out of the bearing shaft.
13. Place the platter on upper part of the bearing with maximum care.
14. At the end, lay down the leather mat included in the box on the platter.
15. Following activity should be rubber drive belt placement on the proper groove on the pulley – depending on the desired rotary speed (33 1/3 rpm – the upper groove, 45 rpm – the lower groove). The drive belt is included in the turntable set.
16. The next step is final leveling of the entire turntable. It is achieved thanks to chrome plated metal knobs, located in the front area of the acrylic base board – see chart 1 for reference. Turn each knob gently clockwise to lower the turntable height over the ground.
17. If it is necessary to increase height of the rear of turntable, please turn clockwise the rear cone feet, holding it directly by hand (the only feet w/o leveling knob).
18. Optional record clamp is helpful to easily control the leveling result.
19. If the turntable has been moved recently from a place with low temperature or high humidity, please wait at least 15 min prior to the motor first start.
20. Scheme of the wiring of the turntable in typical Audio – Stereo system with use of phono preamplifier is shown on the following chart 4.
21. **WARNNG!** Now it is allowed to input the power connector to the 230V power source.

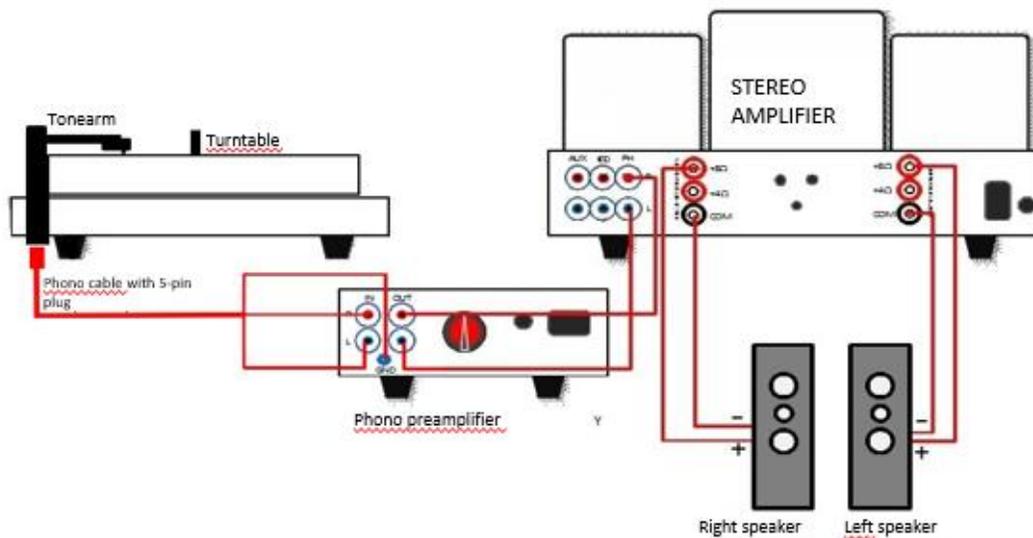


Chart 4: Scheme of the wiring of the turntable within Audio – Stereo system, incl. phono preamplifier.



## 5. Turn on / off and change of the platter rotary speed

1. Put the record on the turntable platter and eventually weight it on with the optional Muarah record clamp.
2. Gently press the switch on the top of the motor housing, a bright-green light indicates that the turntable motor is running.
3. Put the phono stylus on the record surface, following the instructions of the chosen tonearm producer.
4. It's not necessary to stop the platter (and motor) each time when changing the record. Use of soft and anti-static mat, made from the genuine leather ensures, that putting o taking off the record, even on rotating platter is safe and doesn't result in excessive static concentration on vinyl.
5. Change of the platter rotary speed is done through move of the drive belt between two grooves on the motor pulley and pay attention that the belt uses the most suitable row on the platter.
6. The upper groove on motor pulley results in speed of 33 1/3 rpm, the most typical for 12-inch, „LP” type records.
7. Moving the belt to the lower groove changes platter speed to 45 rpm typical for 7-inch vinyl singles.
8. If necessary move the belt down or up on the platter with your finger.

## 6. Care & maintenance

1. Chrome and lacquer plated, also acrylic parts of the turntable should be regularly dust cleaned with soft cotton cloth or very soft microfiber towel.
2. It is recommended to keep the turntable under cover, preventing from dust. We recommend the dedicated clear acrylic cover available in our offer.
3. Muarah turntable is designed to operate lifetime without platter bearing lubrication. However if you feel that additional lubrication is needed please contact the manufacturer on [muarah@muarah.pl](mailto:muarah@muarah.pl)

## 7. Safety rules

1. The turntable power cable should be plugged to the power source, only if the motor steering cable is connected.
2. Motor steering cable “Jack” connector, can be plugged into it's socket, only if the power cable is not connected to the 230V power source.
3. It's not allowed to open the motor housing under any circumstances.

## 8. Parameters

Platter weight	3.5 kg
Total turntable weight (w/o tonearm)	11 kg
Width	47,5 cm (ramie 9”) / 54 cm (ramie 12”)
Depth	40 cm
Hight (w/o tonearm and record clamp)	17 cm
Platter height	4 cm
Record rotary speed supported	33 1/3 RPM / 45 RPM, manual change
„pivot to spindle” distance range	min. 210 / max. 295mm
Motor & drive transfer	AC synchronous, rubber belt
Power source	230V, 50Hz

