



KUZMA STABI R TURNTABLE (supplied without arm) S/N.....

Instruction manual

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KUZMA LTD

INSTRUCTION MANUAL FOR STABI R turntable

The **Stabi R** turntable is a very precisely engineered piece of equipment. However the construction is robust and requires minimal maintenance for optimal performance.



Fig. 0.

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General

Stabi R is a very compact turntable made from a solid block of aluminium with an internal (built in) electronic power supply. Drive is provided through a DC motor and a proprietary, non flexible drive belt. Stabi R also features a main platter with a very high mass (8 kg). The drive concept is the same as on our flagship turntable model Stabi XL DC. A very smooth torque characteristic enables the platter to reach its speed of 33 rpm accurately and approximately 2 seconds. A precise, accurate and consistent speed of rotation is maintained even under the most demanding conditions imposed by the complex dynamic peaks in music.

The platter is a sandwich design consisting of three layers (aluminium – acrylic - aluminium) which minimises vibration and maximises the damping effect of the platter itself and that of the LP. The ruby ball minimises friction and noise within the thrust bearing and is supported on a special low noise compound material.

On the right hand side of the main structure (chassis), there is a firmly attached, but removable tonearm “wing” carrying the arm board. Both these elements of the Stabi R are also machined from solid blocks of aluminium. This turntable has as number of options for use with multiple tonearms and can be provided in various aesthetic finishes. There is an option for two tonearms where a second tonearm wing can be added along the left hand side of the main chassis. The basic turntable* is also available without any tonearm options, i.e. as a main chassis for installations in a custom made turntable plinth of the owner’s choice.

The complete Stabi R turntable structure is supported on four fully adjustable metal feet.

Product registration and warranty extension

Kuzma products have a non transferable 2 year limited warranty on parts and labour, which may vary in each country.

To obtain the 5 year* limited warranty from us, you need to register the product on our web site within 30 days of purchase. We suggest registration of products in any case because this will also help you to receive our technical support more easily and with resale of products.

Simply register on our web site, complete the forms and you will receive an extended five year warranty card by email within a few days. * Not valid for ex demo products.

Technical data:

Mass	36 kg
Platter mass	8 kg
Platter material	aluminium & acrylic
Bearing type	inverted (ruby ball)
Shaft diameter	16 mm
Chassis / levelling	aluminium / yes
Turntable levelling	yes (4 adjustable feet)
Drive	Single DC motor
Belt	special
Internal power supply	yes (electronic)
Speeds	33, 45, (fine speed adjustment)
Armboard	yes
VTA adjustment	no (optional)
No. of tonearms	1 (+ up to 3 optional)
Suspension	no
Dimensions	480 x 380 x 150 mm (*320 x 380 x 150 mm)
Finish	black or silver
Record Clamp	optional
Platter Mat	yes
Mains supply	115/230/50-60 Hz (internal fuse T 500mA)
Dust Cover	no
Accessories supplied	bearing oil, Allen keys
Options:	pre-cut armboards, clamp, RAL finishes, second tonearm wing, arm holder, arm balcony, wooden frame...

Safety Precautions:

Electrical connection to the turntable from the mains comes via the cable. Please keep away from moisture and be careful not to damage the mains cable. .

Basic Setup

Note: Some parts are heavy, so be careful when handling!

Note: Choose a suitable supporting table which can hold over 40 kg without warping.

Note: While some parts are packed in plastic bags for protection, these are not intended to be strong enough to lift or carry the contents.

Unpacking

The whole turntable is packed in one box. Before unpacking the individual parts of the turntable, prepare the area where the unit will be situated. The best position is on a solid shelf which is strong and rigid enough to support the turntable. For best performance this should be completely horizontal. Fig. 1a,b,c.



Fig. 1a. Lowest level- turntable base



Fig. 1b. Middle level- arm wing,....



Fig. 1c. Top level- platter,....

Contents:

Instruction manual, base, wing, subplatter, platter, belt, oil, Allen keys

Assembling

Turntable base:

Comes mounted with left side panel attached(Fig. 1a). The base is heavy (Fig. 2.) Lift it, being careful not to scratch against metal parts of clothing, and position it in the middle of the supporting board. You can now level the base horizontally with a spirit level. Level base by rotating two opposite legs at a time.(Fig. 3.)



Fig. 2. Turntable Stabi R base without right wing



Fig. 3. Levelling adjustment foot

Tonearm Right wing with armboard:

This is positioned with two pins (Green arrows) and fixed with two two hex screws M6 (Red arrows) and washers on the right hand side of the base. Use Allen key 5 mm. Ensure that you have the correct armboard for your choice of tonearm. Fig. 4&5.
(Fig.2.: Red arrow fixing screw for side panel)

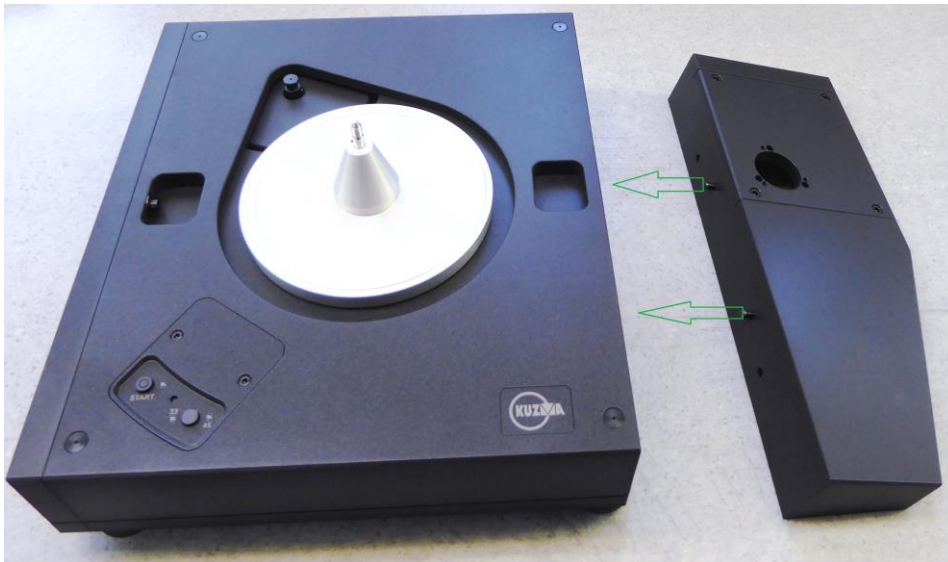


Fig. 4. Right hand arm wing with Kuzma armboard: Green arrow-2 pins

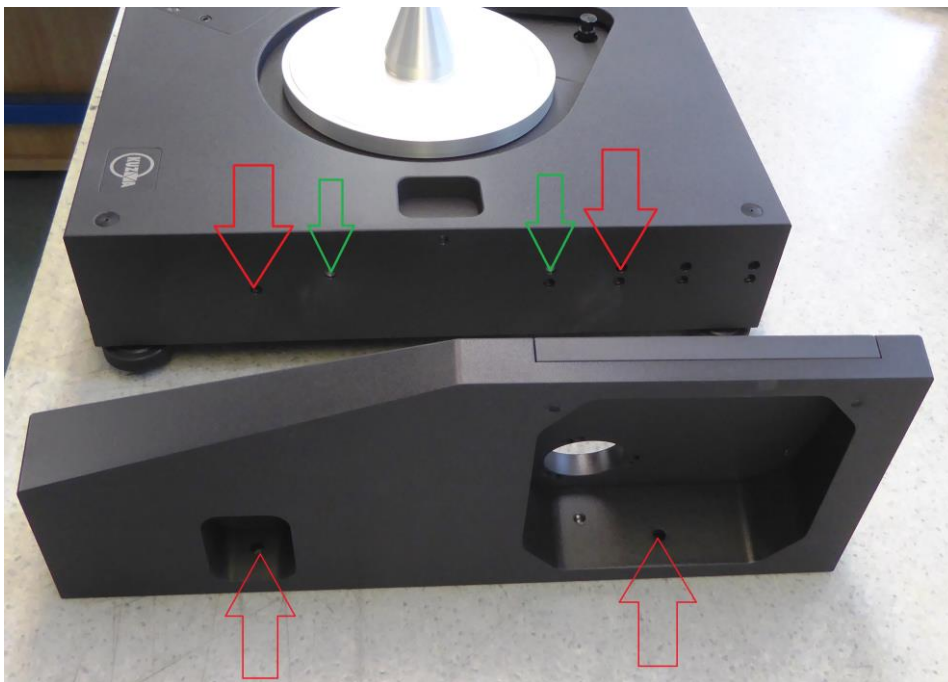


Fig. 5. Arm wing screws position: Red arrows-2 screws with washers

Subplatter assembly:

Remove the protection cup from the bearing shaft. Be sure that it is clean. Locate the PVC bottle with bearing oil. By squeezing the PVC bottle pour 8-10 drops of oil in the well, which contains the ruby ball. Then, by nearly touching the outer edge of the well with the dropper, allow 20-25 drops of the oil to slowly run along the shaft into the lower well (Total 30-35 drops)

This is not critical as any surplus will be caught in the lower reservoir. Have a tissue handy in case of oil spillage. Clean your hands in case of oil contamination.

Gently position the subplatter over the shaft and slowly lower it down. A small amount of oil & air might escape from the hole on the slope. If so, wipe it. Gently rotate the subplatter a few times, lift it up half way and lower it again. It should rotate smoothly. Fig. 6.



Fig. 6. Belt drive with subplatter

Belt:

Position the belt onto the motor pulley first and then with fingers position the belt over the subplatter perimeter. The belt is not very flexible, just stretch it into position by rotating the subplatter a few times.

Platter:

Position the platter on the subplatter, holding the platter with both hands at the sides. Due to the small gap between the lower edge of the platter and the top of the base, do not hold the platter underneath.

Power supply

Power supply description:

The DC motor controller unit generates a precise output to control rotation of a three phase frequency controlled DC motor. The signal is generated by a sophisticated computer based program. Each speed can be selected, finely adjusted independently and then stored in the memory. The PS is factory preset.

Plug in mains:

Be sure you have a turntable with the correct voltage and mains cable for your country. Connect the mains cable at the rear of the turntable, then into to the mains and then switch on the at the rear, which is then left permanently on. Fig. 7. A red LED will light up on the top of the panel. Fig. 8&8A



Fig. 7. Rear panel with mains switch



Fig. 8. Top panel – no platter rotation



Fig. 8A. Two green LED showing 33 rpm

Top panel:

Press buttons to change function.

Start button: a red light will indicate the stop function and green light platter rotation.

33-45 button: green light at 33 or 45 indicate selected speed.

Operation:

Check rear switch. Be sure that the red light LED is on and the platter is not rotating. On pressing the start button the red LED will turn green and the platter should start rotating. At start up you will hear belt noise- that is normal due to high motor start torque.

At 33-45 button a green light indicates the chosen speed. Press the button to change speed selection.

To stop the platter, press the start button again. The green light will turn red and the platter will stop rotating.

Use and adjustments

Tonearm mounting:

Mount the arm as instructed in the tonearm instruction manual. Route the tonearm cable underneath the turntable below the armboard. With tonearms where the cable is not connected to the tonearm below armboard, eg. 4Point,....., it is best if the tonearm is fixed on the armbase first and then route the cable.

Platter rotation:

Ensure that the red LED lights up by the switch at the rear. Press the start button. The green LED light will display the chosen speed. It is normal to hear some crackling sounds made by the belt but this will disappear in a few days. If constant noise is heard, then check the position of the belt on the motor pulley. Platter should reach 33rpm in 2 seconds.

Fine speed adjustment:

Start platter rotation and select required speed. Press switch in the hole (Fig. 8A- red arrow) with a thin Allen key, ball pen or toothpick and the green led will start blinking. By observing a strobo disc press the START switch to increase speed (+) in steps or decrease the speed by pressing the 33/45 switch (-). When accurate speed is reached then press the switch in the hole and the green light will stop blinking. Check speed independently for both speeds.

PS factory reset:

If you find that your speed selection is out of range, you should reset the PS to factory set outputs. Turn the power off at the rear, wait 10 sec, press and hold the start button and then switch power on and then release start button. The red light will flash 3 times and then stay lit. Your PS is now factory preset and you must again fine adjust both speeds with a strobo disc.

Maintenance

Mat:

The top surface of the mat can be cleaned using a roller textile cleaner.

Bearing:

Oil in the bearing will last for 5-6 years or more.

Oil should be added if the top reservoir (with ruby ball) is totally dry. The oil level will be below the ruby ball as, when the subplatter is lowered onto the shaft, the bearing surface increases the level of oil above the ruby ball. When the subplatter is removed you can see the level of oil inside its sliding ring (brown colour). If it is above the sliding ring in the subplatter there is plenty of oil. If excess oil is added it will run into the appropriate extra reservoir.

Belt:

Periodically remove the platter and remove the belt. Clean the belt and running surfaces of the motor pulley and the subplatter with a soft cloth soaked in alcohol (every 8-12 months). For best performance replace belts every 5-7 years. If the platter needs more than 3 seconds to reach 33rpm, then the belt tension should be increased. Below the motor tower are 4 supporting dampers fixed by hex screws which you release with Allen key 5 mm. Then push the motor tower for 1-2mm away from platter shaft. Then fix the motor position and check start up. If the platter reaches 33 rpm speed in less than 1 second, then the motor tower should be positioned closer to the platter shaft.

Accessories: More info will be soon available on our web site

Options for fitting more tonearms as spare parts:



Various tonearm options



Stabi RD – for two tonearms

Clamp R:

The function of the clamp is to press the record close to the platter mat, thus minimizing vibration between the record and platter and decreasing warps of the record itself.

The clamp can be also used without washers. Gently screw down the clamp on top of the record.

It is advisable to put a washer under the LP (thin for thick records and thick for thin records) before screwing the clamp down. Observe the outer edge of the LP. To start with this edge will be above the mat but will slowly lower to touch the mat. Hold the LP so that it does not rotate. If the clamp is screwed too much, the outer edge will begin to rise.

Pressure should then be released by slightly unscrewing the clamp until the outer edge is touching the mat again. This is the position in which the record is held in firmest contact with the mat. With very bent records pay particular attention to the highest point of the rim.

Troubleshooting

Platter not rotating:

- Red light LED is not shown- check mains and press rear main switch or consult dealer.
- check if belt is in the correct position.

Very slow start:

Remove the platter and belt and check position of the belt and tension.

Wrong speed:

If you find out that your speed selection is way out of range for some reason, you should reset PS to factory set outputs- see page 10.

Transportation

For short distances dismantle the platter, and disconnect all cables. Block the tonearm's tube and bearings. Do not tilt more than 15 degrees for long periods of time as this could cause bearing oil to spill.

If you need more tilt, then you should remove the bearing oil and subplatter and it is advisable to protect the ruby ball.

All parts are heavy and can be easily damaged by sliding around a transport vehicle. Repacking in the original box is, therefore, recommended.

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