



Fig.1

**STABI XL 4 KIT- FOR CONVERTING STABI XL2 TURNTABLE  
Instruction manual  
2010**

# KUZMA LTD

## INSTRUCTION MANUAL FOR STABI XL 4 kit turntable

The **Stabi XL 4 KIT**: converts Stabi XL2 turntable into Stabi XL 4 version. The difference is the addition of two extra motor towers to make 4 motor towers in total with 4 belts. These give more stable drive to the platter and there is a new better power supply. All this add 20kg to the total weight of the turntable.

**General Description:** The kit is packed in two boxes. Some parts are very heavy so handle the box with care. No tools are required but a strong shelf or other support must be provided. The electronic power supply generates controlled feed from a quartz to the four motors, in such a way that the vibration of the motors is minimised.

### **Stabi XL 4 turntable :Technical data:**

Mass (total w/o PS) :	93kg
Platter:	22 kg
Base:	27kg
Motor towers:	4x 7kg
Tonearm tower:	14 kg
Speeds (fine adjust):	33, 45 rpm
Dimension:	450x 450 x 300 mm
Power supply:	110V or 240 V , 50/60Hz (factory set)

### **Safety instructions:**

The power supply is connected to the mains via the cable. Please keep the PS away from moisture and be careful not to damage the mains cable. The same precaution applies to cables feeding the motor towers.

**Unpacking:**

The boxes and some parts are very heavy, so handle very carefully and place parts on assembly surface.

**Contents:**

Motor towers 2x, belts 2x, motor towers support platform 2x, connecting cables 2x, PS XL II, motor positioner, instruction manual.

**Basic setup****Motor towers:**

Remove the two brass motor towers with the black pulleys, being careful not to touch the pulleys with any force. Position each motor separately, one in front of the base (the motor tower with the Kuzma logo) and the second motor tower at the rear of the base so that the connectors are at the rear side. All four motor towers should form a square. The gap between the base and the motor towers should be at least 20 mm. See fig 2. Then add supporting plates for motor towers. The thinner plate raises the front motor tower and the thicker plate supports the rear motor tower. Reposition motor towers to achieve 112 mm distance from subplatter to outer edge of motor pulley after positioning platter. Use motor positioner on top of pulley by simply just touching the edge of the platter. See fig 3.



Distance of motor towers. Fig. 2.

**Position of belts from lowest upwards:**

- 1-old tower-right- lower groove
- 2-old tower-left- upper groove
- 3-new tower-front-upper groove( thinner support plate)
- 4-new tower-rear-lower groove ( thicker support plate)

## Power supply (PS XL 2=4=MCU):



### General description of PS:

The AC motor power supply generates dual sine wave output to control rotation and speed of the AC synchronous motors. The signal is generated by quartz and controlled by a sophisticated computer based program. This allows for very smooth generation of the sine wave with very fine choice of speed. Each speed can be selected, finely adjusted independently and then stored in the memory. PS is factory preset. Connect motor cables to motor outputs( XL 1&2, XL 4- any )

Sometimes it will take a few hours for a new turntable to settle for the correct speed. When the PS is unplugged preset speeds will be stored.

### Technical data:

Mass:	2 kg
Size:	120x140x400 mm
Power consumption:	50w
Output:	33,45 rpm( 40-100Hz, 110V)

### Operation:

1. Press firmly the power button the front panel. After 10 sec the PS is ready. The display will show 33 and above the start button a red LED will be shown. You can keep the PS switched on all the time.
2. By pressing the start button the red LED will turn green and the platter should start rotating. To stop platter simply press the start button again. The red LED will show and the platter will stop rotating.
3. Press the speed button and the selected speed will change from 33 to 45. Press again and it will return to 33.
4. Do not hold pressed start button before mains switch is on.

**Fine speed adjustment:**

Observe on a strobe disc if the bars are stationary. If not ( bars move in the same direction as platter rotation then the speed is too high) then press few times( there are very small steps- so keep pressing) the plus or minus buttons until the bars are stationary. On the display you will see a green dot in the right bottom corner indicating that change is in process. Using a sharp pen, press the store button and the green dot will disappear. Check speed independently for both speeds. When using the strobe disc, be sure that you use properly. Check that you are looking at the correct speed and are using the correct strobe light ( household light which depends on mains frequency).

**Factory preset speed:**

If you find out that your speed selection is out of range for some reason you should reset PS to factory set outputs.

Turn the power off, wait 10 sec and then press and hold speed button, then press power on. When display will shows CU, release the speed button. The display will now show FA and then 33. Your PS is now preset for factory preset speeds.

**Connection:**

It does not matter where each motor is actually connected. Check that all motor pulleys are rotating.

**Belts:**

Place one belt over each motor pulley in the running groove and subplatter( see fig 1) and check by manual rotation that the belt runs smoothly in the middle of the grooves. Start with the One belt should lead from each motor tower.Ensure that all belts run smoothly in the appropriate grooves and are not touching each other at the subplatter.

**Platter:**

Carefully put the platter on to the subplatter. Measure the distance from the outer edge of the pulleys to the outer rim of the platter. It should be 27 mm. Use supplied black plastic motor positioner (see fig 3). Position it on the top of the motor pulley and gently push motor tower towards the platter so that motor positioner barely touches the outer rim of the platter.

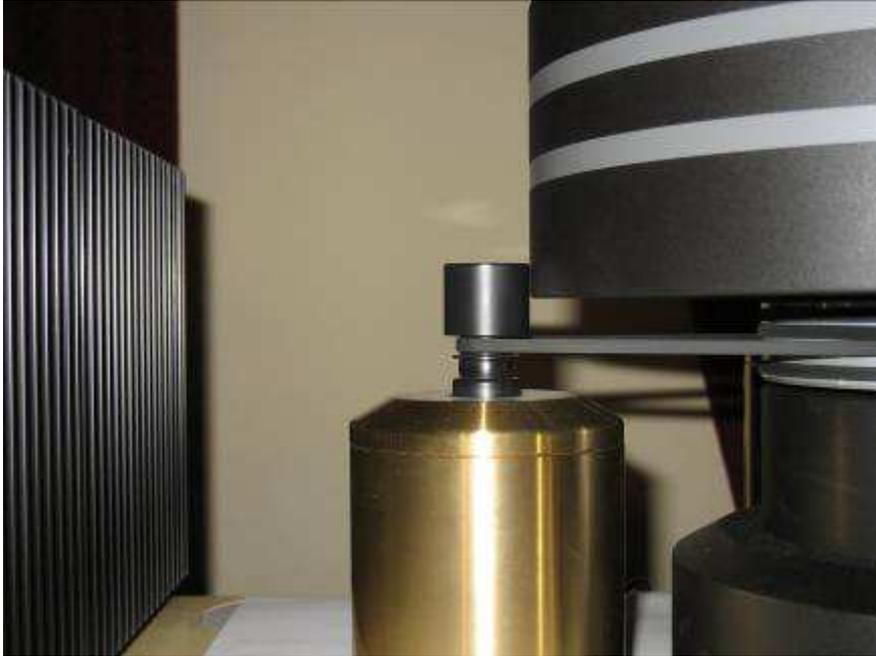


Fig.3

**Problems:**

A.Speed:To reach correct speed, adjusted it on the PS. Also check that the distance of motors to the platter are correct.

B.If the speed is totally incorrect: Reset to factory preset.

Finally repeat factory preset and fine speed adjustment.

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