

# REK-O-KUT TROUBADOUR MOTOR CONVERSION KIT

(Applies to vintage Rek-O-Kut turntables. You will need to modify it to fit other turntables)

This kit consists of the follow:

- 1) New Premotec Motor
- 2) Adapter Plate for most vintage and some non Rek-O-Kut turntables
- 3) Screws to mount new motor to mounting plate
- 4) Vibration dampening grommets for mounting plate isolation
- 3) Speedbox and universal, in-line power adapter, but not speedbox mounting screws (see item #3)
- 4) Screws for mounting plate to deck

## 1. PREPARE TURNTABLE FOR MODIFICATION

Remove old motor and all mounting hardware. If there are some wire/cable clamps present, you may want to retain them to dress the wiring of the new unit.

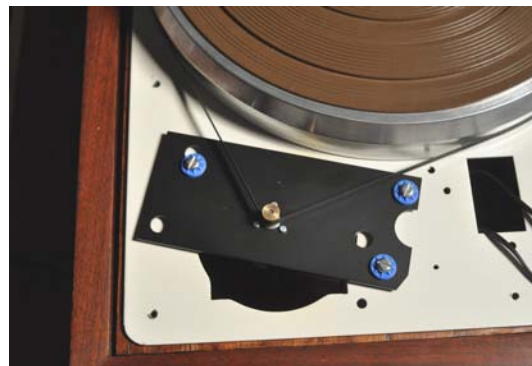
## 2. ATTACH NEW MOTOR TO ADAPTER PLATE

a) Observe proper mounting side. Use 3 supplied small M2 Metric screws to mount motor to adapter plate.

b) Insert 3 vibration dampening grommets into plate's holes that line up with corresponding holes of the deck.

c) Mount the adapter plate to the turntable deck with the 3 supplied 8-32 screws. Snug them till they contact the vibration grommets, then add an additional 1/4 turn. Then use 8-32 nuts on the screw ends on the bottom to lock this position. Tighten only enough to prevent the screws from turning.

d) There may be decks whose mounting holes do not align with our adapter plate. If so you must either drill holes into the adapter plate or onto the deck and tape them to accept mounting screws. There are too many variations possible, and you will have to determine how to mount it. Also, if modifying a non-Rek-O-Kut turntable, you want to mount the motor at 8.125 to 8.25" from the spindle center. You may have to modify/remake the plate. If mounting directly to your own base, the motor hole diameter should be 1.5 inches.



## 3. SPEEDBOX MOUNTING

a) Determine where you want to mount the 126 x 47 x 30 mm box. If not permanently mounting it, skip to item #4. Look underneath and become familiar with what will be underneath the speedbox. Take into consideration cabling, as explained in step #4.



b) The speed box mounting holes are on its bottom. They are separated by 100 mm (10 cm). Use an awl or similar to mark the first hole. Then do the same 100 mm to the side to mark the second hole. Use a 1/8" drill to make the two mounting holes.

c) Determine the length of 6-32 screw to use, and obtain them from a hardware store. Insert them from the bottom and observe how much they protrude. **It is imperative that they do not protrude longer than 3/16"**, otherwise they may short the circuit board or even crack it. If necessary, put washers under the heads of the screws to coax them to protruding 1/8" to 3/16". Use the shortest screw that works.

d) Fasten the box to the deck. Tighten screws only enough to hold the box on without it wobbling.

## 4. CABLING

a) Determine how to rout the motor to speedbox cable, and power adapter cord. You may be able to use existing holes with many models. The power switch hole is often a convenient place from which to route cables.





b) Rout the motor cable from the speedbox to the motor and solder its end to the motor. The white lead connects to the “+” sign on the motor tab. Do not linger while soldering and use only enough heat to melt the solder and have it adhere the wire to the tab.

c) If available, use existing cable clamps to dress the leads into a convenient place.



## 5. CALIBRATION.

The box is factory adjusted to provide almost the correct speed.

a) Set the START/STOP switch to STOP, the SPEED switch to 33, and the CAL/VAR switch to CAL.

b) Plug the power adapter into a convenient power outlet.

c) Switch to START. Using a strobe disc on the platter and viewing with incandescent or florescent light, calibrate each speed with a small screwdriver.

## 6. OPERATION

a) Use the START/STOP switch to start platter rotation or top it.

b) Normal position of the CAL/VAR switch it CAL. To vary pitch, set the switch to VAR and rotate the PITCH switch to obtain the desired speed. A very wide range of adjustment is provided.

## 7. PROBLEMS

Speed is way off	Maybe the turntable is very un-level. The belt may be on the pulley flange instead of in the pulley. Check the Pitch Control settings.
No power	The power supply plug could be pulled out from the speed box.
Can hear the motor	This is normal with DC motors. Should be a very soft purr, almost inaudible at 33.

## LIMITED WARRANTY

The suitability of this product for use on your turntable is solely your responsibility. We assume no responsibility for your decision. It is fully warranted against defective materials or workmanship under the normal use for the warranty period of 6 months from time of purchase to the original owner. Repairs, adjustment for defects or replacement of parts will be performed free of charge, except:

- If equipment has been damaged by accident or mishandling.
- If equipment has been serviced or modified by other than our authorized agents.
- In case of theft, loss, fire or other calamities by the Acts of God.

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