

Notice: Refer to the manual that came with your record restoration machine. Also periodically check our web site as well as our KirmussAudio YouTube channel for the latest information and training videos. Specifications, procedures are subject to change without notice. This document replaces all previous supplements as to Quick Guide and when to change to 2 minute cycles. It combines both. This insert is a pictorial guide to assist you with steps to follow in processing all vinyl records, new or vintage. For 78/shellac records, consult separate guide.

A. Consult the Instruction manual. Prep the machine for use per the manual.

B. Start the machine by PRESSING THE START BUTTON twice. The ultrasonic will start, the motor will turn, the timer will start to count down from 05:00.



>If the records have visible surface contaminants, with the timer at 05:00 and counting down, insert the record. (FIG.1)

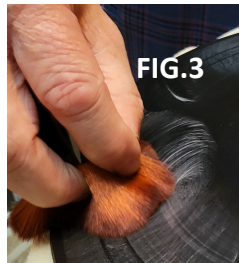
>If the records seem relatively clean or are new, with the timer at 05:00, and counting down, use the “down” arrow key, set timer to 04:00. Insert record.

C. At 00:00, the machine will stop, the record will stop tuning. Take the record out, wobble the record on top of the record assembly cover to remove any excess water, place on the horizontal workspace. (either on the supplied felt mat, or on the optional KA-RS-1 record spinner support).

Use the bunny cloth to remove any excess water from the record.



STEP 1: Apply to side 1 of the record at the 12, 4 and 8 PM positions a dab of the ionizing spray. (FIG 2).



STEP 2: By holding the brush by the bristles, (FIG. 3) use the goat hair / cosmetic style brush to work the 3 spots of spray to spread it over the entire record. (FIG 3). Use circular motions at first, then run the brush across the grooves, then parallel to the grooves. Also work the edge of the record. Pad dry the goat hair brush. Repeat for side 2.

NOTE: Before placing the ionized record back into the machine, use the bunny cloth to remove any water that may be present on the top of the machine so as not to wet the record's label.

STEP 3: Set the timer on the machine to 4 minutes. Press Start. Drop the record into the slot.

At 0:00, remove the record. Wobble the record on the top of the record assembly or workspace to shake off any excess water. Place the record on the horizontal workspace. **INSPECT THE RECORD.** This to determine if we use 2 or 4 minute cycles in the machine.



STEP 4: INSPECTION: When placed on the horizontal workspace:

(a) If there are visible pools of water (FIG. 4a, 4b), or thousands of droplets of water on one half of the record (FIG. 5), this is an indication where a protectant has been applied on the record at some point in time. (LAST, AI, MoFi, etc..) or a severe film. These need to be removed by the process.

WE WILL USE REPEATED 2 MINUTE CYCLES

(b) If the records are relatively dry, no large pools of water, we use the standard method. (used to be 5 minutes),

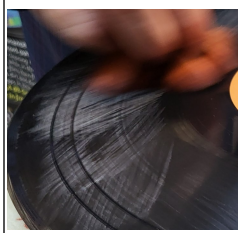
WE WILL USE REPEATED 4 MINUTE CYCLES.



NOTES: Whether we use 2 or 4 minute cycles, the ionizing agent (spray) that applied to the record and inducing a temporary charge to the record to attract cavitation has a colorant added. It appears as we apply the spray. It shows what has pulled off the record or out of the grooves in the prior cycle in the machine.

One will see between application cycles first an increase in the colorant, then a decrease as we cycle the record in and out of the machine. Finally a rapid evaporation as we move the brush around the record. Last cycle shows little white colorant remaining as well as where the record has visibly less water between cycles, and comes out virtually dry. Only a few droplets of water or just a ring of water around the edge of the record. Restoration process completed.

The Process, Start to Finish (continued) (whether using 2 or 4 minute cycles)



STEP 5: Apply Spray. (Second application). Work in with brush. (Per STEPS 1 and 2).

(Some colorant may appear)



STEP 6: Press Start. Set Timer to 2 or 4 Minutes (using down arrow).

(Timer counts down)



STEP 7: Insert record.

(Multiple records may be processed at the same time.)

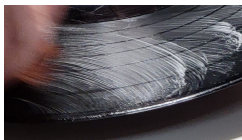
STEP 8: At 0:00, Remove record. Wobble record to remove water. Place record on the horizontal workspace. Use the bunny cloth to remove any remaining water.

STEP 9: A: Apply spray to both sides of record. *NOTE: There should be more colorant appearing as you brush.*

B: Press the START button.

(The Timer counts down)

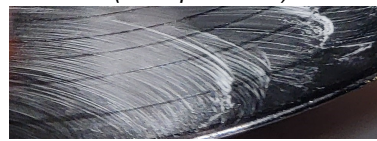
C: Set timer to 2 or 4 minutes.



STEP 10: At 0:00: **A:** Remove record. Wobble record to remove water. **B:** Place record on the horizontal workspace. Use the bunny cloth to remove any remaining water. **C:** Apply spray to both sides of record. **Inspection of record.**

Increase or decrease of the colorant when brushing in the spray?

If one sees an **INCREASE** in the appearance of the colorant while brushing the spray onto the record, any side, with no rapid dissipation:



REPEAT STEPS 9 and 10

If one sees a **DECREASE** in the quantity of the colorant appearing with also a rapid dissipation / evaporation when brushing,



INSERT IN THE MACHINE FOR A FINAL 5 MINUTE CYCLE.

STEP 11: At 0:00: Remove record. Wobble to remove any water. Place the record on workspace.

STEP 12: Finishing. (Images in our manual): **A.** Remove any excess water with the lint free bunny microfiber cloth. **B.** Use the grey lint free optician's cloth to remove any remaining water droplets and polish the record. **C.** Use the parasitic felt side of the combination brush (KA-B1) to polish the grooves in a windshield wiper motion. **D.** Before play or storage: Place the record onto the turntable. **E.** Mist at arm's length a clean and dry goat hair brush. (Kirmuss KA-B-1). The brush is dry. **F.** With the record spinning, move the brush from the edge of the record to the dead wax area, then back. Repeat. Do both sides. **G.** Either store in an HDPE non PVC record sleeve (Kirmuss KA-S-1-40), or play.

TIPS: (i) Pad dry the goat hair brush between spray application cycles. (ii) At the end of day, mist this brush and underside of the record cover with distilled water, pad dry with the bunny cloth. (move rollers to access all plastic gears). (iii) Every 5 or 6 restored records, unplug the cover and perform one degas one degas cycle to remove air trapped in the water.

About Cavitation:

Cavitation always creates heat warming both the water and heating the ceramic transducers in the unit. The KA-RC-1/2 is equipped with a Temperature Monitoring System (TMS) with a visual indicator to monitor heating. The TMS (pictured to the right) sees a temperature bar move from left to right as we use the machine. Green, (cold water); Green—Orange, (room temp.); Green-Orange-Red (long bar), (normal range); then with a small short bar light appear. (hot, but safe). This is normal.



Normal range



PRECAUTIONS: (1) When you see a **SMALLER RED LIGHT BAR** to the right of the long red bar appear: Complete your cycles per the process above with your record. **Small red bar**

(2) When this **SMALL RED BAR FLASHES**; Finish the cycle. Turn the unit off, disconnect AC Power, Remove and Unplug the record assembly cover. Drain the warm water back into the original receptacle. (to cool the water). Fill the tank with fresh room temperature water. Add the 2 capfuls of 70% IPA as before to kill live or dormant fungus. Reconnect AC power cable. Turn main power switch on. Perform 2 degas cycles. Reconnect the record cover assembly. You are set to restore!. (One may also instead of a water change, disconnect and remove the record motor assembly cover and let the unit stand 15-35 minutes to cool.)

Global HQ: Mailing; PO BOX 350698. Westminster, Co. USA 80035

Tel: +1(303) 263-6353 charles@kirmussaudio.com
www.kirmussaudio.com YouTube: KirmussAudio

In the UK and EU: Tel: +44(0)1929 794411

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sales@kirmussaudio.net
www.kirmussaudio.net