

LUNATION CRANK

IN-BOX GUIDE

A hand-cranked desk toy that shows eight lunar phases. No phone, website, batteries, glue, or tools are needed.

DIGITALLY VERIFIED - NOT PRINT-READY. No physical fit, durability, force, or cycle-life claim is made.

WHAT IS IN THE SET

1 Base	1 Base hatch
1 Rear C-frame	1 Axle + detent wheel
1 Light moon half	1 Dark moon half
1 Crank arm	1 Crank knob

The open side of the base faces you. The rear C-frame rises behind the moon. The matching moon halves close around the axle.

ASSEMBLY - NO GLUE

1. Insert the axle upward through the open cavity and lower bearing in the base. Snap the base hatch shut.
2. Match the axle's flat face. Close the light and dark moon halves around the axle until their snaps engage.
3. Snap both rear C-frame feet into the base. Its upper C-shaped journal closes around the axle.
4. Snap the crank arm onto the axle top. Snap the knob over the pin at the crank arm's outer end.
5. Turn slowly by hand. If anything binds, stop and use the troubleshooting steps on page 2.

FIRST USE

Place the toy on a level desk with the open front toward you. Set the dark half toward you for NEW MOON. Hold the base steady and turn the knob clockwise one click.

THE EIGHT CLICK STOPS

1 NEW	5 FULL
2 WAXING CRESCENT	6 WANING GIBBOUS
3 FIRST QUARTER	7 LAST QUARTER
4 WAXING GIBBOUS	8 WANING CRESCENT

Continue one more click to return to NEW. One complete crank revolution is one complete display cycle. Counter-clockwise runs the same cycle in reverse.

RESET AND PACK-AWAY

Turn to NEW with the dark half toward the open front. Store upright in a dry place and keep loose parts together.

TROUBLESHOOTING

WILL NOT TURN	Stop; do not force it. Check that the moon halves are closed, the axle is seated in both journals, and the crank clears the frame.
MISSED CLICK	Turn gently to the next stop. Check that the base hatch is closed and the axle is fully seated.
LOOSE OR DAMAGED	Stop using the toy. Reseat the snap joints. Do not use cracked, bent, or damaged parts.

CARE AND SAFETY

Use only as a hand-cranked indoor desk toy. Turn gently; never connect a motor or powered tool. Keep fingers clear of the moon-to-frame gap and moving crank. Contains small detachable parts: keep away from children under 3. Wipe with a dry soft cloth; keep away from heat and water.

VERIFICATION LIMIT

This design is digitally verified, not print-ready. No physical print, fit, durability, operating-force, or cycle-life evidence exists. Wall thickness has not been verified.