

Tumbling Instructions for **THUMLER'S TUMBLER**

Tumbling is the simplest way to polish agates and other gem stones. The rocks you use should be sorted by hardness and roughness. Your rocks may vary in size to include a few up to 1-1/2" in diameter for the quart-size barrels and up to 2" in diameter for 6 lb. or 12 lb. barrels.

Agates and other hard stones should not be tumbled with soft materials such as Opal, Tiger Eye, etc. If you are planning to tumble beach-worn rocks, don't complicate the process by mixing them with hammer-broken rocks.

When selecting rocks to tumble, remember, the finished product is determined by the quality of rocks with which you start.

Your tumbler should be placed on a firm, level surface with a protective tray or pan under it, and ample clearance around it. Place your tumbler where it will not be in the way; because **tumbling takes several weeks of continuous operation** and there is a constant sound of rolling rocks.

Step 1

Fill barrel 2/3 to 3/4 full of stones. Pour in package marked **coarse**. Add water just below top of stones. Run tumbler with this mixture for at least 7 days, 24 hours a day, or until smooth. **Wash stones and barrel well.** (Kitchen colander is ideal for washing stones, but do not wash into sink drain.)

Step 2

Place stones back into barrel. Pour in package marked **fine**. Add water just below top of stones. Run tumbler with this mixture for approximately 7 days, 24 hours a day, or until rocks are shiny when wet. **Wash stones and barrel well.**

Step 3

Place stones back into barrel. Pour in package marked **prepolish**. Add water just below top of stones. Run tumbler with this mixture for approximately 3 days, 24 hours a day, or until rocks show luster when dry. **Wash stones and barrel well.**

Amount of Grit to Use:

R3 Barrel or Quart Can — 1 small pack
R6 Barrel (9 lb.) — 2 small packs
R12 or B Barrel (12 lb.) — 1 large pack

FOR BEST RESULTS USE THUMLER'S GRIT

Step 4

Place stones back into barrel. Put in package marked **polish**. Add water just below top of stones. Run tumbler with this mixture for approximately 7 days, 24 hours a day, or until rocks shine when dry. **Wash stones and barrel well.**

Step 5

Place stones back into barrel. Add enough powdered detergent to make stiff suds. Add water just below top of stones. Sawdust or other filler may be added also to cushion rocks during this clean-up stage. Run tumbler with this mixture overnight. **Wash stones and barrel well.**

Spread out rocks on dry surface, and inspect your finished gemstones!

Note: Check tumbler during the first few hours of operation to be sure everything is working properly. Tumbler barrels should be burped each day to relieve build up of gas pressure.

GRIT PACK SIZES

SMALL PACKS:

Coarse & Fine - 4 oz. ea.
Prepolish & Polish - 2 oz. ea.

LARGE PACKS:

Coarse & Fine - 1 lb. ea.
Prepolish & Polish - 1/2 lb. ea.

Care and Maintenance of Tumbler

1. Before operation, be sure white nylon bearings are in place, cradled in end plates of base with anti-rotation dog in groove of nylon bearing in **UP** position. Do not use petroleum-based products in rubber barrels.
2. Be sure both shafts turn freely. A binding shaft may throw barrel off rollers.
3. Oil motor bearings when beginning operation and once each month after that. Use SAE 20 Electric Motor Oil. Use oil sparingly. (Unnecessary on Mod. T & MP-1 Series)
4. Do not spill abrasives on bearings or motor. Replace barrel lids if they wear thin in the center.
5. Motor is designed to run hot to touch.
6. Do not use pliers or wrench to tighten wing nuts on the Model B barrel or warranty is void.
7. All tumblers are protected by thermal overload device. If motor overheats, unit automatically shuts off. When this happens, check for bound bearing or overweight; wait for motor to cool and it will restart by itself.
8. To assure long belt life, make certain that motor and drive pulleys are in line. Necessary adjustments can be made by adjusting set screw on motor pulley. (Except Mod. T & MP-1 Series)

If your dealer cannot supply you with necessary abrasives and accessories, write or call factory.

CAUTION, ELECTRICALLY OPERATED PRODUCT. Not recommended for children under 12 years of age. As with all electric products, precautions should be observed during handling and use to prevent electric shock.



ASSEMBLY INSTRUCTIONS

for THUMLER'S TUMBLER No. 140 - MODEL B

Remove motor from inside of barrel.

With cord on down side, attach motor to motor-mount bracket on tumbler base using nuts and washers provided.

Tighten nuts securely so motor is flush with mounting bracket.

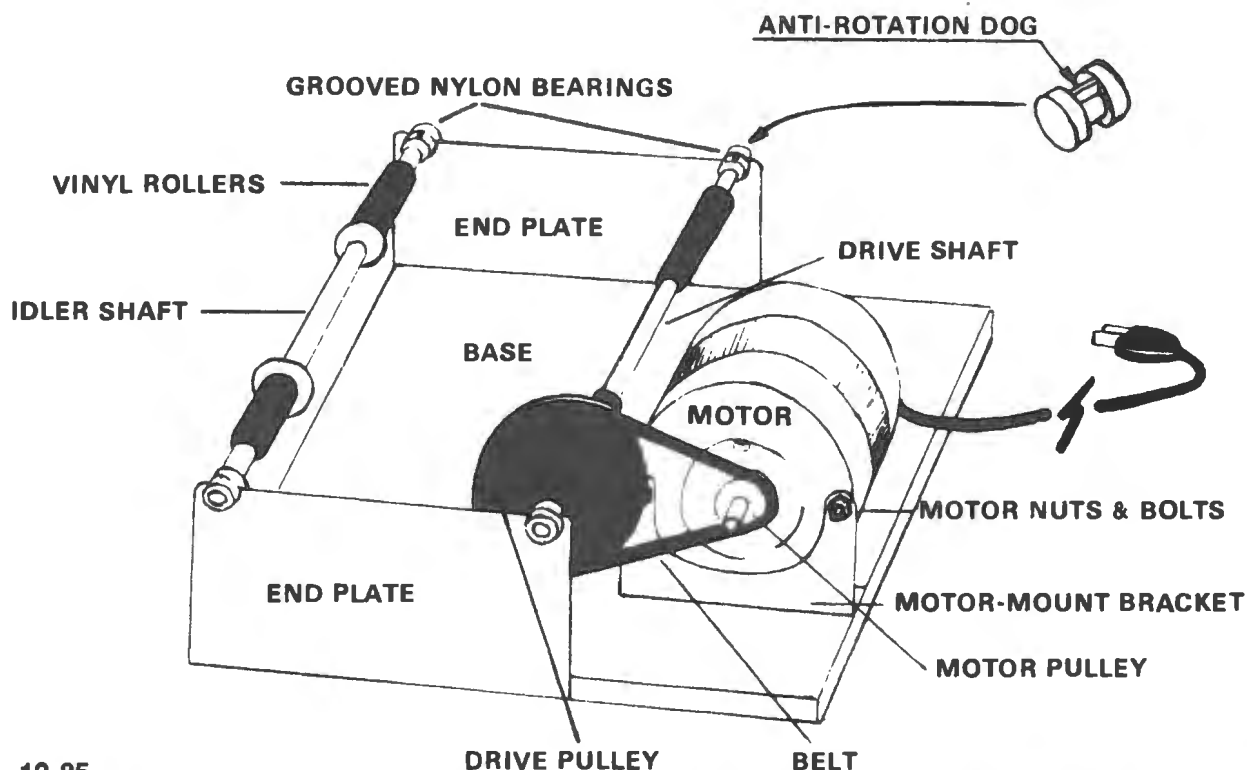
Place belt over drive shaft.

Position shafts on tumbler base as shown - cradling grooved nylon bearings in end plates of base. Be sure anti-rotation dog in groove of nylon bearing is in UP position (Opposing vinyl rollers of Drive and Idler shafts must be aligned.)

Check to see that shafts are very free-rolling. If necessary, press end plates inward or outward slightly to allow approximately $\frac{1}{8}$ " end play (side to side) in shafts.

Place belt around motor and drive pulleys. Check to see that pulleys are aligned.

To adjust alignment, loosen set screw on motor pulley. Be sure to re-tighten when adjustment has been made.



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