

Eastwood

DO THE JOB RIGHT.

Part #20153

18 LB. CAPACITY VIBRATORY TUMBLER

INSTRUCTIONS



Your **EASTWOOD 18 LB. VIBRATORY TUMBLER** is a true industrial-grade unit employing a constant vibrating action to greatly reduce the amount of time and effort required to clean and polish smaller parts of your project, freeing up time to work on other, larger items. With a rugged, abrasive resistant plastic bowl, a powerful 1.1 AMP motor and precision vibrating system, this piece of equipment will provide many years of reliable service.

INCLUDES

- (1) Tumbler
- (1) 1 Bowl
- (1) 7 lbs. Green Rust-Cutting Media
- (1) 7 lbs. Polishing Media

SPECIFICATIONS

- 120V AC / 60 Hz, 1.1 AMP
- 18 lb. maximum bowl capacity, wet or dry



SAFETY INFORMATION



READ INSTRUCTIONS!

Thoroughly read and understand this instruction manual before using the Tumbler.



ELECTRIC SHOCK CAN KILL!

- DO NOT allow water or liquid tumbling solution to enter motor area or electrical shock could occur.
- Always unplug unit when filling or emptying bowl to avoid shock or unexpected start-up.
- Always plug into a GFCI-protected circuit.



FIRE HAZARD!

- DO NOT use flammable solvents in the Tumbler. Fire and or explosion can result.
- DO NOT cover the unit with anything (such as a blanket or a box) to dampen noise as this can cause overheating and/or create a fire hazard.



RESPIRATORY HAZARD!

- Never run unit with lid off. Vibratory action, cleaning and polishing emit hazardous dust. Always tighten lid down securely before starting the unit.
- Wear ANSI-approved dust mask or respirator while loading and unloading.

SET UP

- Place Tumbler on a clean, dust and grit free surface. The Tumbler rubber feet are designed to prevent the Tumbler from “walking” during normal operation, however we strongly recommend that the machine be placed on a solid floor, away from any combustible materials. If machine is to be operated on a bench, it should be blocked in to prevent any chance of it working its way to the edge and falling.
- Keep power cord away from and out from under Tumbler. The unit is equipped with a 5-1/2' long, grounded, 18 ga. cord. Plug into a properly grounded outlet. If an extension cord is required, use 18 ga. or heavier. Do not exceed 25'.
- **DO NOT OVERLOAD.** This Tumbler is designed to accommodate an 18 lb. total load, wet or dry. **ALWAYS FILL THE TUMBLER BY WEIGHT**, not by volume as it is very easy to overload the unit especially when using a wet solution. It is strongly advisable to weigh the contents before loading including the parts, tumbling media and liquid solution. **NOTE:** 1 pint of water = 1-1/4 lbs. Overloading will greatly reduce the effectiveness of the machine making the process take longer. Overloading will also cause permanent damage to the Tumbler and the motor.
- The Eastwood 18 lb. Vibratory Tumbler will accept larger pieces up to 10” long and 3” wide however best results are achieved with numerous smaller pieces no larger than 5”. Be sure that no excessively sharp edges or corners exist which can damage the interior wall of the bowl.
- It is not necessary to fully cover the parts being tumbled with media, as the vibratory action will rotate and tumble them thoroughly during the process. Begin by adding a small amount of media to cover the bottom; add the parts to be tumbled then add remaining amount of pre-weighed media
- All Tumbler Media available at The Eastwood Company are tested and approved to be compatible with this Tumbler.
The use of other non approved media can damage the unit and void the warranty.

OPERATION

- Inspect condition of parts to be cleaned. Parts should be free of paint before placing in the tumbler. Paint can be removed by soaking parts in a stripping agent prior to tumbling. Eastwood Powdercoat and Paint Stripper (#12724 ZP) Qt., (#12725 ZP) Gal. or (#13793 Z) Aerosol works well.
- **DO NOT** under any circumstances put paint strippers or solvents in the Tumbler bowl.
- Parts can be degreased by soaking in a solution of Metal Wash (#10120) (See package for directions). Or for faster degreasing, add about 1-2 teaspoons of Metal Wash concentrate (#10120) to any wet media then add enough water to wet the parts. Rinse cleaned parts in water and allow to dry.
- For best results sort parts to be tumbled by approximate weight and condition. Tumbling similar weight/condition parts together will yield most efficient results. **CAUTION:** Be aware of total weight of parts, media and water. Do not exceed 18 lbs.! **NOTE:** 1 pint of water = 1-1/4 lbs.
THE EASTWOOD 18 LB. CAPACITY VIBRATORY TUMBLER is a powerful, high-capacity industrial type unit designed to efficiently de-burr, remove rust, clean and provide a highly-polished shine on metal parts and hardware. Wet or dry capability. With care, it will provide many years of trouble free service
- **DO NOT** use degreasing solvents in the Tumbler as they may damage the Bowl.

REMOVING RUST

- Add Green Rust Cutting Media and parts to be cleaned. The ideal ratio for best tumbler action is 70% media to 30% parts.
- If adding water, add enough water to wet the parts and media, but not so much that standing water is visible. If degreasing is necessary, add a small amount (about 1 or 2 teaspoons of Metal Wash (#10120) to the bowl. Excessive water will dampen the vibratory action while too little water will impede proper action. Also, be careful not to exceed the 18 lb. weight limit or serious damage to the tumbler will occur. **NOTE:** 1 Pint of water = 1-1/4 lbs.
- Place lid over central mounting stud making sure the lid to bowl seal is intact. Place the rubber washer then the metal washer over the threaded stud. Thread the handknob lid retainer onto the stud until it meets resistance then hand tighten securely.
- Plug Vibratory Tumbler into properly grounded 120V AC 60 Hz outlet. Set on/off switch on the base to the on position.
- Typical processing times range from 3 to 7 hours. It is recommended to check periodically to see if the desired finish has been achieved. Actual time to achieve this appearance may vary greatly from 1 hour to requiring several additional hours depending on condition of media and degree of rust on parts.
- For many parts no further surface conditioning is needed. If the desired results are achieved, make sure Tumbler is unplugged. Remove Lid.
- If media was used dry, a magnet may be used to “fish-out” any steel or iron parts. For aluminum, brass or other non-ferrous parts, (while using rubber gloves for protection) the media can be manually sifted for hidden parts.
- Pour media and parts from the bowl onto newspaper or a towel, remove parts and dry with a heat lamp or hair dryer to avoid flash rust.
- Allow wet media to air dry for future re-use and clean bowl thoroughly for future use.

PRODUCING A HIGH SHINE

- To add a highly reflective shine to the previously tumbled parts, remove the Green Pyramid media, clean the bowl thoroughly then proceed next to the Polishing Media.
- Polishing Media should be tumbled with the parts for at least 6 hours. Tumbling for longer periods will yield a higher shine. Remember to use a ratio of 70% Media to 30% Parts. This dry media will not remove an appreciable amount of material; however it will remove dirt, and stain residues. Typical running time for this media is 6 to 24 hours.
- Protect the shine with Eastwood Diamond Clear for Bare Metal (#10200Z Aerosol 11 oz.), Eastwood Tin-Zinc Electroplating System (#10049Z) or Eastwood Metal Protect (#12499Z). For the absolute longest lasting finish protection, use the Eastwood Powder Coating System (#11671 or #11676).

TROUBLESHOOTING

- **Does not run when switch is turned on:**
 - Check 120 VAC input plug connection.
- **Parts too dull:**
 - Not in tumbler long enough: Allow more time.
 - Skipped steps: Follow all steps for quickest results.
 - Tumbler overloaded/overfilled: Check total weight of parts, media and liquid if used.
 - Too many parts: Ideal ratio is 30% parts, 70% media.
 - Parts too large: Do not add parts greater than 10" in length.
- **Excessive wear inside of bowl:**
 - Using wrong media: Use only media approved for use in Eastwood Tumblers.
 - Parts too large for tumbler: Works best on parts smaller than 10".
 - Tumbler overloaded/ overfilled: Check total weight of parts, media and liquid if used.
 - Too many parts: Ideal ratio is 30% parts, 70% media.
- **Heavy deposits in recesses of parts:**
 - Too much or too little water or solution when using Green Rust Cutting Media: Use just enough water or solution to wet media.
 - Parts not properly degreased before using Green Rust Cutting media: Degrease or add 3 teaspoons of Metal Wash to bowl.
 - Not enough water or solution added to Green Rust Cutting Media. Use just enough water or solution to wet media.

MAINTENANCE

The following maintenance should be performed every 100 hours of use:

1. Check tightness of all hardware.
2. Inspect interior of bowl to ascertain any premature wear.

To optimize media use:

1. Allow wet media to thoroughly dry before returning to unused media container
2. Continue to use media until it no longer cuts in a reasonable amount of time.
3. Continue to use all medias until they become a useless dust as the abrasive/polishing compounds are present throughout each media particle.

OPTIONAL ITEMS

- | | |
|-----------------|--|
| #13476 | Eastwood Vibratory Tumbler Cleaner Additive for use with Green Pyramid Media. |
| #13478 | Eastwood Vibratory Tumbler Polisher Additive for use with Green Pyramid Media. |
| #10120 | Eastwood Metal Wash for degreasing action. |
| #12499Z | Eastwood Metal Protect 11 oz. Aerosol for preserving that fresh polished surface. |
| #10200Z | Eastwood Diamond Clear, Aerosol 11 oz. to coat highly polished parts. |
| #100049Z | Tin Zinc Plating System to produce a protective cad-like coating. |
| #10238Z | Metal Blackening System with Diamond Clear to produce a non-dimensional black oxide coating. |
| #11676 or 11671 | Powder Coating Systems Produce the most durable chip resistant finish available. |

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: techhelp@eastwood.com
PDF version of this manual is available online >> eastwood.com/20153manual

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