

## Operation and Maintenance Instructions

### Electric Mixers



**MX13-A** Electric Mixer for 3 gallon container

**MX1-A-3G** Electric Mixer with lid for 3 gallon container

**MX15-A** Electric Mixer for 5 gallon container

**MX1-A-5G** Electric Mixer with lid for 5 gallon container

#### INTRODUCTION

The Graymills Electric Ink Mixer is for water based ink and coating applications with viscosity up to 5,000 centipoise. The mixer runs at 200 RPM. It runs on 115V 60Hz power. All wetted parts are stainless steel.

#### UNPACKING

This unit is shipped fully assembled. Unpack and inspect carefully. Contact shipper or Graymills if you suspect damage or missing parts. Follow instructions and put into use.

#### SAFETY WARNINGS

You will find various types of safety information on the following pages and on the labels attached to Graymills equipment. The following Safety Statements explain their meaning:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

#### **! DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

#### **! WARNING**

**WARNING** indicates a hazardous situation which, if not avoided, could result in death or serious injury.

#### **! CAUTION**

**CAUTION**, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

#### **CAUTION**

**CAUTION**, used without the safety alert symbol, indicates a situation that could result in damage to the equipment or components not related to personal injury.

#### **! CAUTION**

Never work with equipment you feel may be unsafe. Contact your Supervisor immediately if you feel a piece of equipment is in an unsafe condition.

#### SAFETY INSTRUCTIONS

Do not install or operate until you have read all warnings and instructions and understand the operation of this equipment. Keep this manual handy for reference/training.

#### **! DANGER**

- This product is **NOT** explosion proof and **NOT** suitable for mixing flammable or combustible materials. Do not run unit in the presence of an explosive atmosphere. Contact Graymills for alternative hazardous-duty mixing products.

#### **! WARNING**

- When using mixer, be aware of what liquid is/has been mixed previously. If liquid is potentially harmful, take appropriate precautions, including wearing personal protective clothing.
- This mixer is not washdown rated. Take care to ensure motor housing is not submerged or subjected to liquid splashing or sprays. Do not operate unit if liquid has been admitted into motor housing.

#### **! CAUTION**

- Read and follow all safety instructions supplied with the fluids/inks you will be mixing.
- This mixer has rotating parts. Use caution.
- This product operates using 115V, 60 Hz AC power. Do not attempt to run mixer on alternate power specifications. Never bypass fuses.

**CAUTION**

- Ensure motor has adequate access to cooling air flow. Do not lock mixer shaft with motor energized.
- Wear eye protection and appropriate safety gear when using mixer.

**OPERATION AND SAFETY GUIDELINES****CAUTION**

- Place mixer in liquid before starting.
- Make sure mixer is firmly attached to container before starting. We recommend that you obtain the Graymills lid made specifically for this mixer system.
- Do not turn on until mixer is in fluid and you are ready to begin mixing.
- Operator should wear eye protection and appropriate personal protective clothing.
- Do not use mixer with liquids containing solids that could damage propellers or motor.

**INSTALLATION AND OPERATION**

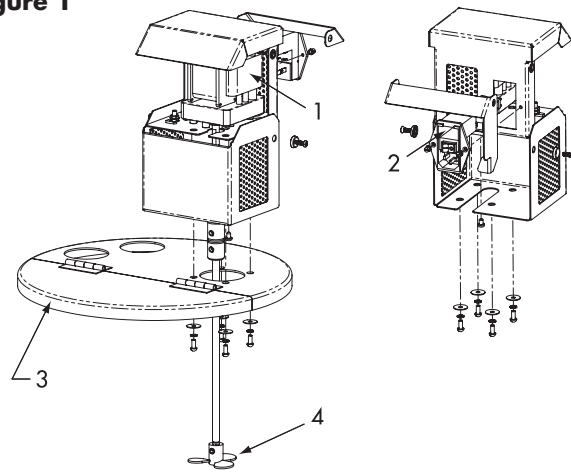
1. Remove mixer from carton. Verify that the 1.6A fast acting fuses are installed in the power entry assembly (Figure 1, item 2) on rear of mixer. Never bypass fuses or operate unit without them installed.
2. If mixer has been supplied with lid (models MX13-A and MX15-A), ensure that mixer is tightly secured to lid. For standalone models (MX1-A-3G and MX1-A-5G), mount mixer to a stable, level surface that is protected from liquid sprays and other hazards. For Graymills lids, contact Customer Service for part number 420-42011-81.
3. Ensure unit has adequate access to airflow for motor cooling.
4. Immerse mixer propeller in liquid to be mixed, ensuring it is submerged sufficiently to prevent splashing.
5. Connect supplied cord to a 115V, 60 Hz outlet and power on mixer using the on/off switch on rear of unit.

**SHUTDOWN AND STORAGE PROCEDURE**

1. Turn off power and disconnect cord.
2. In hot environments, the electric motor can become warm to the touch. Using caution, remove mixer from service.
3. Clean shaft and propellers by wiping with damp rag or by placing mixer securely over a container full of water or cleaning fluid. Dry, store.
4. To protect unit from damage, do not store mixer leaning on shaft.

**REPLACEMENT PARTS**

1	Gear Motor with Fan	397-92709
2	1.6A Fast-Acting Fuses	780-92710
3	Lid, for 3 and 5 gallon container	420-42011-81
4	Propeller	525-41998-88
	115V Power Cordset	777-08821

**Figure 1****WARRANTY**

**Graymills Corporation** warrants that the equipment manufactured and delivered hereunder, when properly installed and maintained, shall be free from defects in workmanship and will function as quoted in the published specification. **Graymills** does not warrant process performance nor does Graymills assume liability for equipment selection, adaption or installation.

This warranty does not apply to damages or defects caused by operator carelessness, misuse, abuse, improper application, or abnormal use; the use of add-on parts or equipment which damages or impairs the proper function of the unit and modifications made by Buyer.

**Graymills'** obligation under this Warranty shall be limited to:

- Replacing or repairing (at **Graymills'** sole discretion) any non-conforming or defective parts manufactured by **Graymills** within one year from the date of shipment to customer.
- Replacing or repairing (at **Graymills'** sole discretion) thermoplastic parts cleaner tanks or lids that have cracked or split under normal use within five (5) years from date of shipment.
- Replacing or repairing components supplied but not manufactured by **Graymills** to the extent of the warranty given by the original manufacturer.

Buyer must give **Graymills** prompt notice of any defect or failure and satisfactory proof thereof.

This warranty does not apply to expendable parts which need periodic replacement due to normal wear.

This warranty does not apply to rusting of mild steel components or tanks in product used with aqueous (water based) fluids.

A new warranty period shall not be established for repaired or replaced materials or products. Such items shall remain under warranty for only the remainder of the warranty period of the original materials or products.

If you believe you have a warranty claim, contact **Graymills** at 773-248-6825 for a Return Merchandise Authorization number. Any returned material must have its RMA number on the outside of the package and be shipped prepaid or the shipment will be refused. **Graymills** will promptly examine the material and determine if it is defective and within the warranty period.

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY. IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY SHALL NOT APPLY. **Graymills'** warranty obligations and Buyer's remedies thereunder (except as to title) are solely and exclusively as stated herein. In no case will **Graymills** be liable for consequential damages, loss of production or any other loss incurred because of interruption of service.



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