

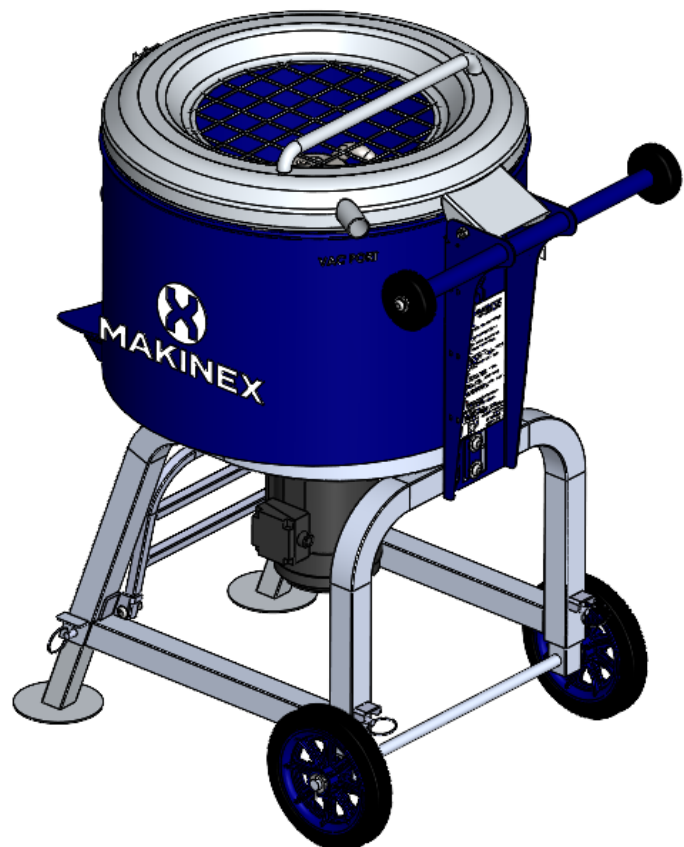


Forced Action Mixer

FAM-120-AU

FAM-120-UK

FAM-120-US



OPERATOR'S MANUAL

Rev 1125

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INTRODUCTION

Thank you for purchasing a MAKINEX product.

This manual provides information and procedures to safely operate and maintain the Forced Action Mixer. For your own safety and protection from injury, carefully read, understand and observe the safety instructions described in this manual.

Keep this manual or a copy of it with the machine. If you lose this manual or need an additional copy, please contact MAKINEX. This machine is designed and built with user safety in mind; however, it can present hazards if improperly operated and serviced. Please follow the operating instructions carefully. If there are any questions regarding operating or servicing of this machine, please contact MAKINEX.

The information contained in this manual was based on machines in production at the time of publication. MAKINEX reserves the right to change any portion of this information without notice.

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No part of this publication may be reproduced in any form or by any means, electronic or mechanical, including photocopying, without express written permission from MAKINEX.

Any type of reproduction or distribution not authorised MAKINEX represents an infringement of valid copyrights and will be prosecuted. We expressly reserve the right to make technical modifications, even without due notice, which aim at improving our machines or their safety standards.

DISCLAIMER

MAKINEX and its affiliates take no responsibility for any damage, injury or death resulting from the incorrect or unsafe use of this product. Use of this product should be undertaken by competent persons only. It is the operator's responsibility to ensure that the following safety procedures are followed. If you are unsure, do not operate this product.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty enquiries.

MAKINEX SUPPORT

Refer to **CONTACT INFORMATION** section

MODEL NO.

FAM - 120

SERIAL NO.






DATE OF PURCHASE

PURCHASE LOCATION

ABOUT THIS MANUAL

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment. Follow all safety messages to avoid or reduce the risk of serious injury or death.

KEY TERMS

| | |
|--|--|
|  READ CAREFULLY | READ CAREFULLY – refers to <i>important information</i> that should be paid careful attention. |
|  CAUTION | CAUTION - indicates a potential hazardous situation which, if not avoided, <i>may</i> result in minor or moderate injury |
|  WARNING | WARNING – indicates a potentially hazardous situation which, if not avoided, <i>could</i> result in death or serious injury |
|  DANGER | DANGER – indicates an imminently hazardous situation which, if not avoided, <i>will</i> result in death or serious injury |
|  PROHIBITED | PROHIBITED – identifies actions that <i>should never</i> be carried out by anyone interacting with the machine. |

These safety warnings do not eliminate all possible hazards that could occur therefore it is essential to use common sense and to strictly follow any instructions to prevent accidents.

SAFETY INFORMATION



Read this manual **thoroughly** before operating your Forced Action Mixer. Failure to follow instructions could result in serious injury or death



RISK OF ELECTRICAL SHOCK

Electrical shock can cause burnt marks, cardiac arrest or even death.

- **ALWAYS** switch off the Forced Action Mixer when not in use.
- **ALWAYS** unplug all external connection cables or wires before attempting to clean the Forced Action Mixer.
- **ALWAYS** keep children and pets away from the Forced Action Mixer.
- **DO NOT** alter or disassemble the Forced Action Mixer.
- **DO NOT** operate the machine with missing or broken parts.
- **DO NOT** operate the product when fatigued or under the influence of alcohol or drugs.
- In case of fire, use dry powder fire extinguishers. **DO NOT** use water fire extinguishers, which may cause electrical shock.

EMERGENCY INFORMATION

In the event of an emergency follow the steps below:

1. To disable the product, push firmly onto the emergency stop button.



2. Disconnect the inlet plug from external power source.

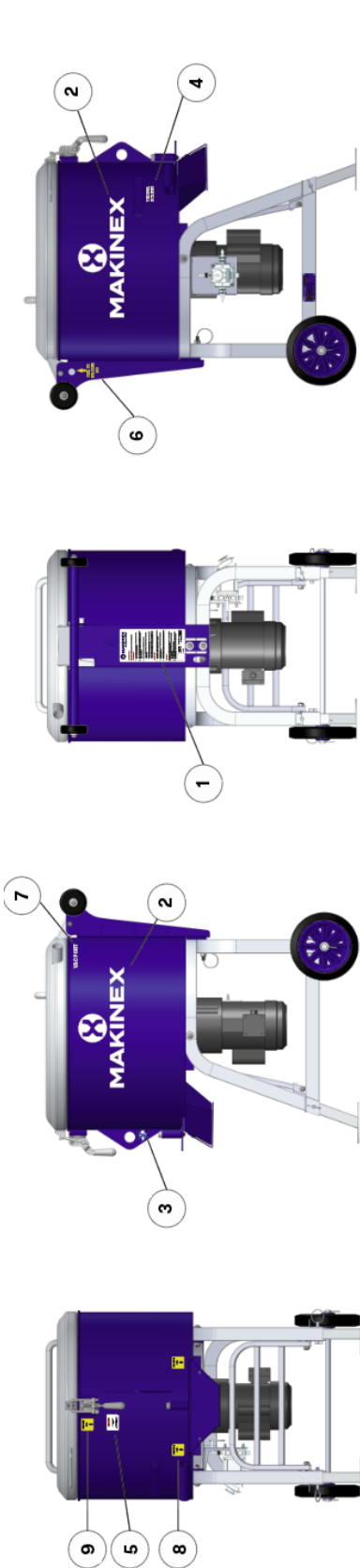


Always ensure all safety information found in this manual is observed.

SAFETY DECALS



ART SPECIFICATION



MAKINEX



(3) - QTY: 1



(8) - QTY: 2



(9) - QTY: 1



(6) - QTY: 1

VAC PORT


(7) - QTY: 1

CAUTION
LOCK LATCH
WHEN
TRANSPORTING
AND OPERATING

(5) - QTY: 1

TROWEL
HOLDER

(4) - QTY: 1



MAKINEX
TOOL FORCED ACTION MAKER

INSTRUCTIONS

PLEASE READ INSTRUCTIONS CAREFULLY BEFORE OPERATING THIS TOOL.

OPERATION:

1. MAKE SURE THE TOOL IS PROPERLY ASSEMBLED. PLEASE CONSULT THE INSTRUCTIONS FOR THE TOOL.
2. MAKE SURE THE TOOL IS PROPERLY ASSEMBLED. PLEASE CONSULT THE INSTRUCTIONS FOR THE TOOL.
3. MAKE SURE THE TOOL IS PROPERLY ASSEMBLED. PLEASE CONSULT THE INSTRUCTIONS FOR THE TOOL.
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CLEANING:

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9. MAKE SURE THE TOOL IS PROPERLY ASSEMBLED. PLEASE CONSULT THE INSTRUCTIONS FOR THE TOOL.

SAFETY:

PLEASE READ THE INSTRUCTIONS CAREFULLY BEFORE OPERATING THIS TOOL. THE TOOL IS A POWER TOOL AND MUST BE USED WITH CARE. ALWAYS WEAR YOUR SAFETY GEAR AND FOLLOW THE INSTRUCTIONS FOR THE TOOL.

FOR SERVICE AND SAFETY
FIND OUT
SEE THE
OPERATIONS MANUAL

(1) - QTY: 1

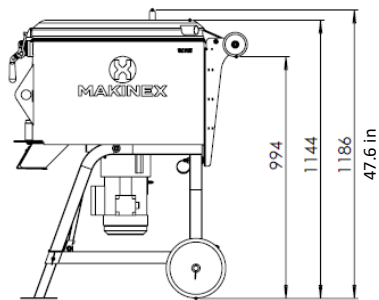
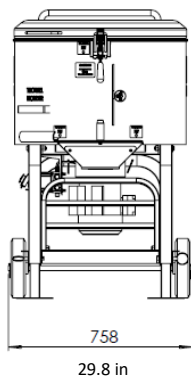
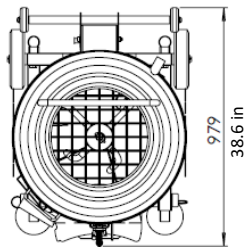
PRODUCT DESCRIPTION AND SPECIFICATION

The Makinex Forced Action Mixer is the future of screed/epoxy bound aggregate mixers. They are relatively compact, lightweight, produces little noise and are safe for indoors or confined space when optioned with a dust suppression plate. Built with safety in mind, the unit is complete with a standardised thermal overload protection.

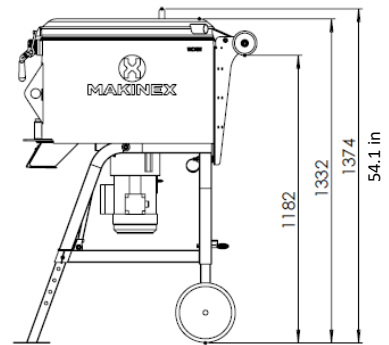
Easily manoeuvrable with durable frame, weather resistant and minimal maintenance. Designed for high load environments in construction, hire and commercial when paired with materials such as screed, mortar, cement, grout and epoxy bound aggregate.

| MACHINE SPECIFICATION | | | |
|---------------------------------|--------------------------|---------------------|----------------------------|
| MODEL | FAM – 120-AU | FAM – 120-UK | FAM – 120-US |
| WEIGHT | 120Kg | | 265lbs |
| DIMENSIONS (W X D X H) | 758 X 980 X 1209mm (min) | | 29.8 x 38.6 x 47.6in (min) |
| | 758 X 980 X 1374mm (max) | | 29.8 x 38.6 x 54.1 (max) |
| RATED POWER | 1.5kW continuous | | 1.5kW continuous |
| | 2.3kW instantaneous | 1.9kW instantaneous | 2.7kW instantaneous |
| OUTPUT RPM | 33 | | 30 |
| INPUT VOLTAGE | 230V | 110V | 240V |
| INPUT CURRENT | 10A | 23A | 9A |
| FREQUENCY | 50Hz | | 60Hz |
| MIXING CAPACITY | 120L | | 31.7 gal |
| WORKING ENVIRONMENT TEMPERATURE | -10°C ~ 40°C | | 14°F ~104°F |
| HUMIDITY | <90% | | |
| INGRESS PROTECTION | 44 | | |
| TERMINAL BOX INGRESS PROTECTION | 54 | | |
| CONTINUOUS OPERATION | S1 | | |

OVERALL MACHINE DIMENSIONS



COMPACT HEIGHT



TALLEST HEIGHT

OPERATING YOUR FORCED ACTION MIXER

CONTROL INTERFACE

Below is the control interface of the Makinex Forced Action Mixer



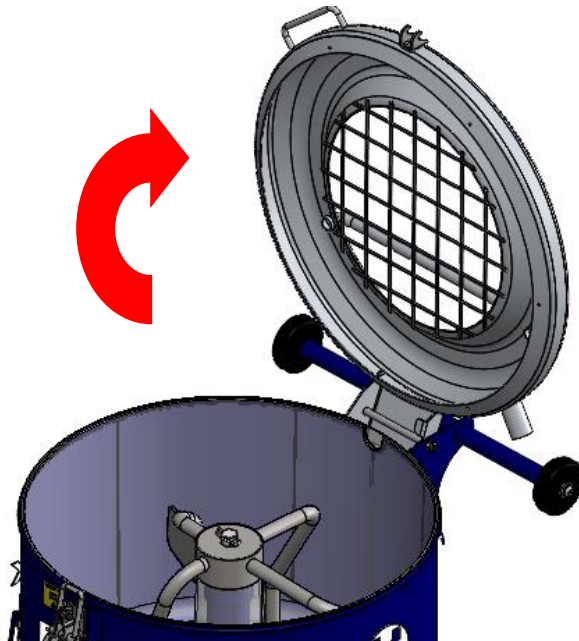
| |
|-----------------------------------|
| 1 – Emergency off switch |
| 2 – On Switch |
| 3 – Off switch |
| 4 – Thermal Overload Reset Switch |

HOW TO USE THE LINER

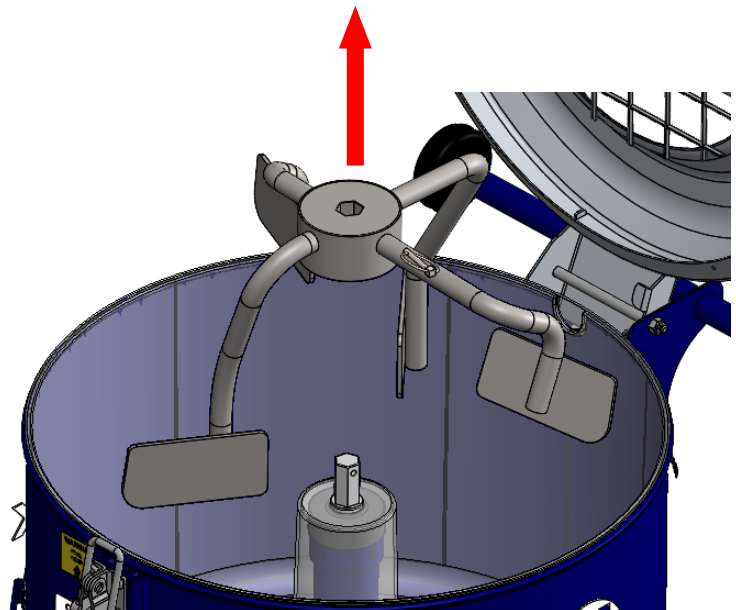
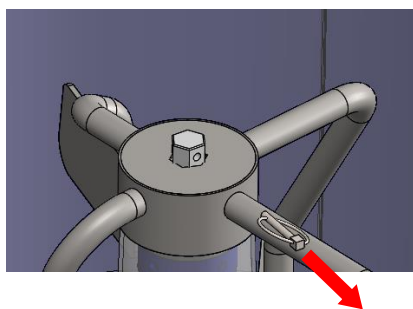
The Makinex Forced Action Mixer is designed to be used with and without the liner. The liner is designed to reduce the amount of downtime of the Forced Action Mixer inbetween jobs by implementing a replaceable layer that can be easily and quickly deployed or removed.

To use FAM -120 without the liner, follow the steps below:

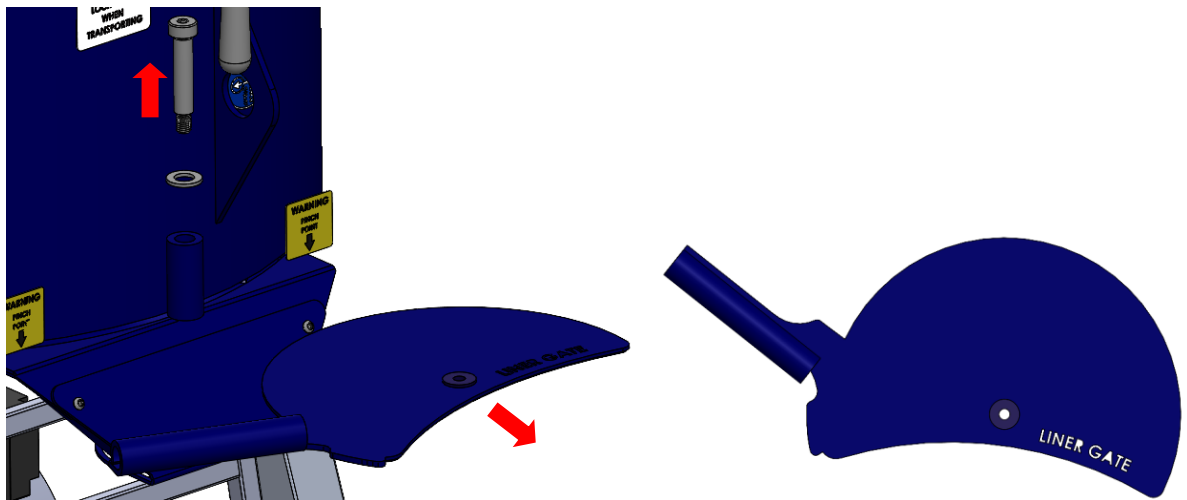
1. Open the lid



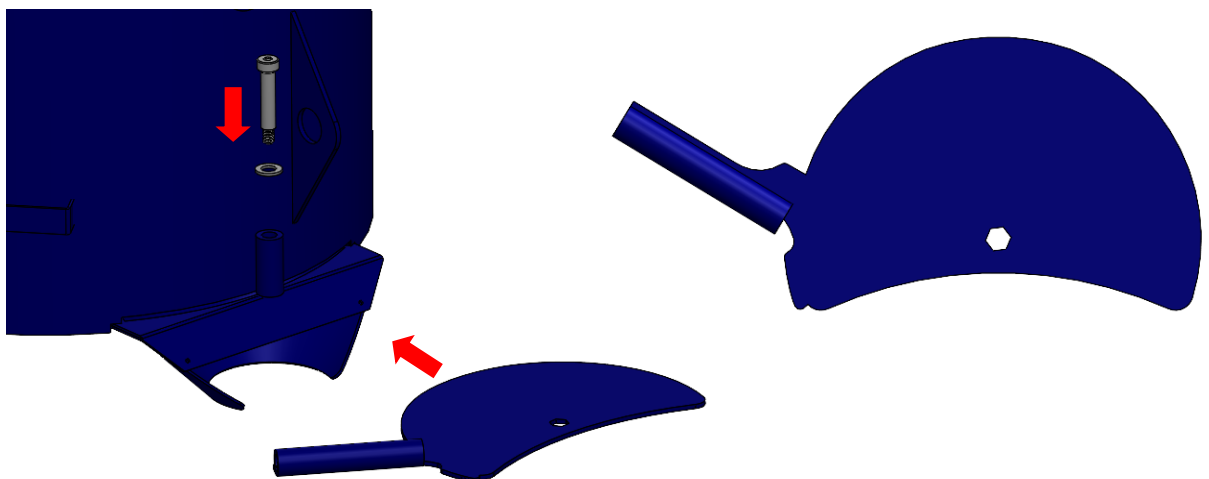
2. Remove the linch pin and paddle assembly



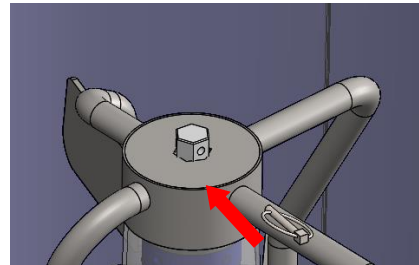
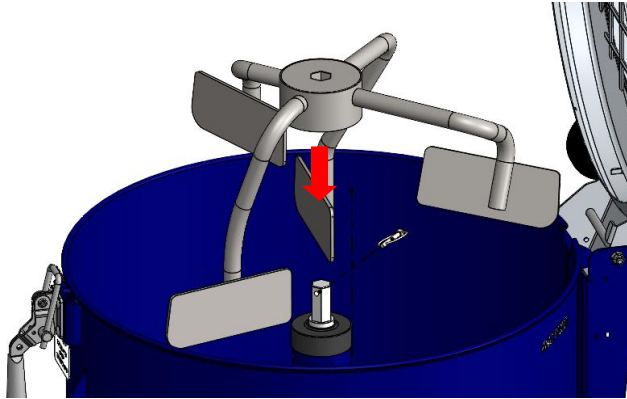
3. Undo the front bolt and washer securing the liner spout gate and remove from unit.



4. Remove liner by pulling it out of the drum. May require some agitating action to wiggle liner out of drum.
5. Once liner removed, install the larger spout gate that came with the unit upon purchase.



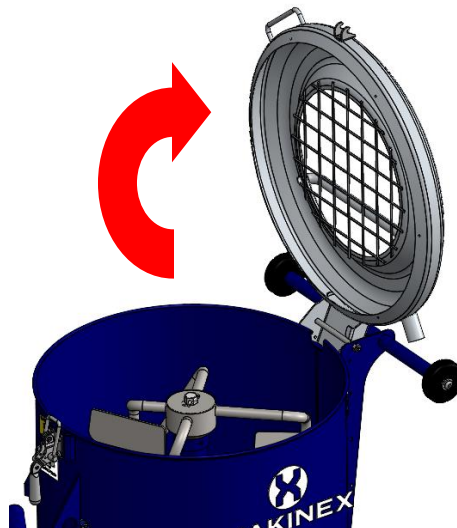
6. Install the paddle assembly and linch pin.



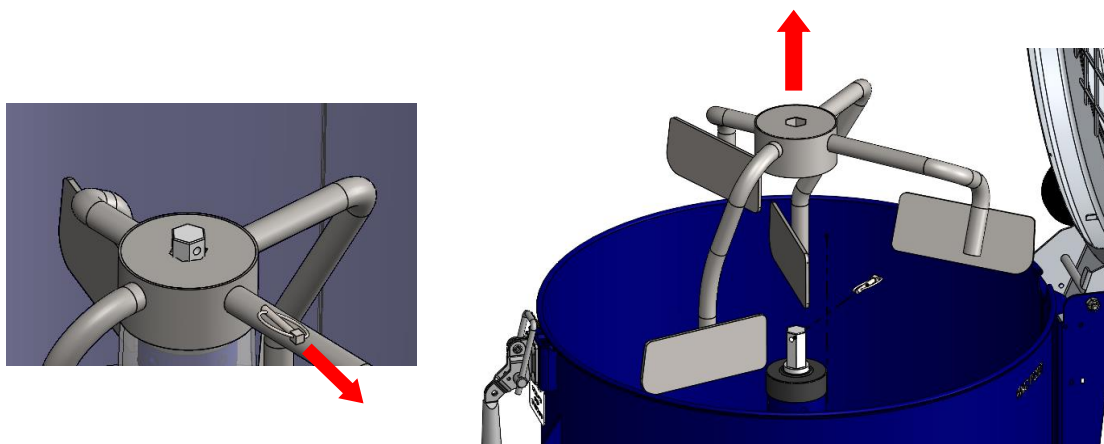
7. Close the lid, and proceed with normal mixing operation

To use FAM -120 with the liner, follow the steps below:

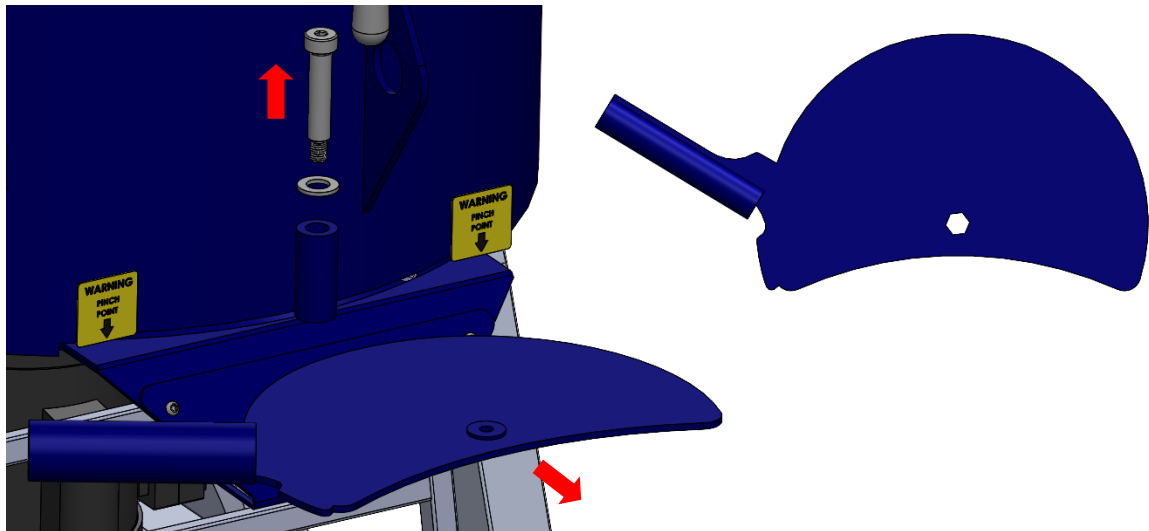
1. Open the Lid



2. Remove the linch pin and paddle assembly

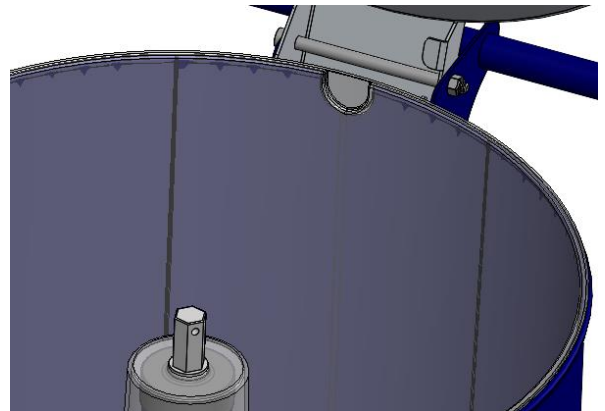
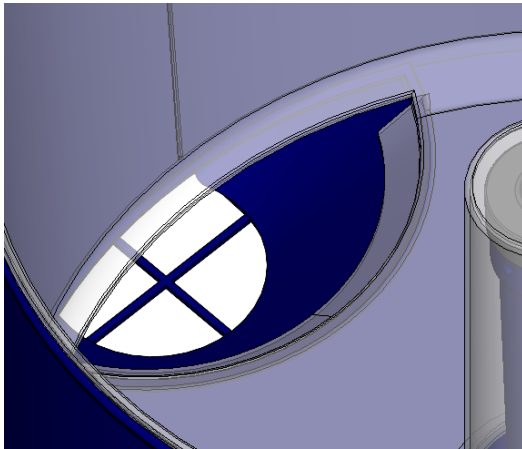


3. Undo the front bolt and washer securing the spout gate and remove the spout gate

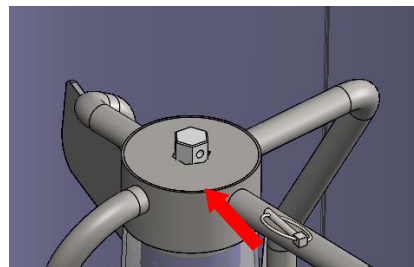
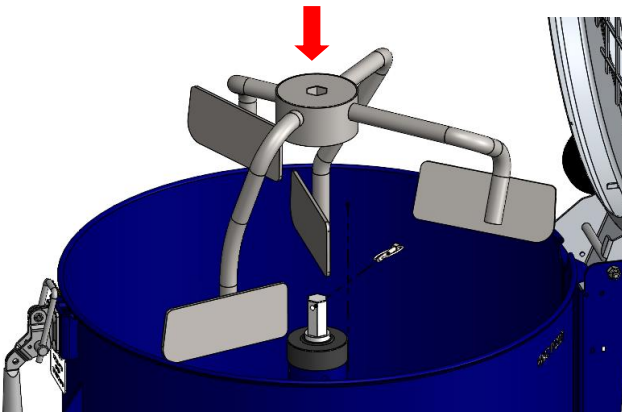


4. Spray the inside of the drum and the outside of the liner with WD40 for ease of installation or removal.

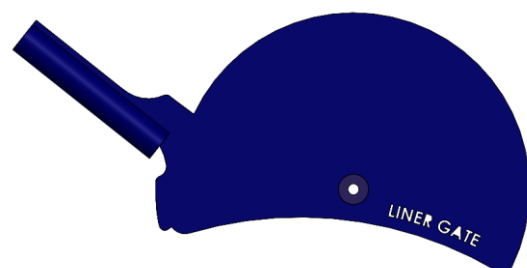
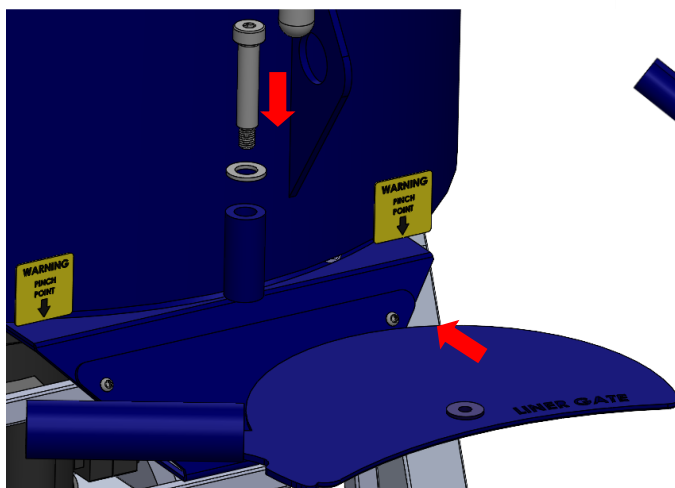
5. Insert the liner. Match the spout of the liner to the spout of the drum. The U shaped locator of the liner should also match the U shape cut out at the back of the drum



6. Install the paddle assembly and linch pin.



7. Replace Spout gate with the Liner Spout gate that comes with the Forced Action Mixer. Reinstall the front bolt and washer



STARTUP OPERATION

- Ensure machine condition is satisfactory and free from any visual damages.
- Ensure machine is stable on relatively flat surfaces.
- Connect machine to an external power source of single phase 230V for AUS Spec or 110V for UK and US Spec.
- Turn machine on.
- Load material into machine up to 120 Kg or 265 lbs.

SHUTDOWN OPERATION

- Press the emergency stop or the stop button.
- Disconnect power from machine.
- Clean machine thoroughly if necessarily to prevent material build up.

WHEN TRANSPORTING

- Ensure lid is securely latched down.
- Ensure all legs are secured via safety pins.
- Ensure paddle is secured via lynch pin
- When loading to the back of truck/ute or trailer, ensure two or more people lifting the machine.

TRANSPORTING THE PRODUCT

- Lifting Point – Use the lifting eye on the Forced Action Mixer to lift the unit. The label adjacent to the lifting eye indicates the total weight of the unit. Please ensure the lifting equipment used is rated for this weight.
- Forklift – The Forced Action Mixer can be forklifted from the bottom, using the two horizontal beams as the lifting point.



WARNING – DO NOT lift the Forced Action Mixer when the unit is loaded with materials.



WARNING – DO NOT lift the Forced Action Mixer without latching the lid.



Lifting Eye

Horizontal Beam

MAINTENANCE

GENERAL MAINTENANCE

Always keep the unit clean. Clean the unit with cloth, if epoxy is used, wipe the unit with a cloth damped with white spirit. Pressure cleaning is allowed, do not directly pressure spray on electrical control box and or the motor.

The Forced Action Mixer warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the Forced Action Mixer as instructed in this manual including storage.

STORAGE

Store the unit in a clean, dry and cool indoor area. Keep the unit away from children and pets.

TROUBLESHOOTING

| PROBLEM | CAUSE | REMEDY |
|--|----------------------------------|---|
| Unit does not turn on | Damaged Power Cable | Change cable |
| | Unit has been overloaded | Remove excess material until 120L of material remain and let it cool down for 60 seconds before resetting the thermal overload switch |
| | On button is stuck | Check if the on button has any epoxy or cement preventing it from operating as intended, remove foreign material |
| | Lid safety switch is not engaged | Close the lid |
| If the above does not resolve the issue, please contact Makinex or your nearest authorised service centre. | | |

LIMITED WARRANTY

To take advantage of the MAKINEX limited warranty, you must have maintenance performed according to the maintenance schedule (contained in relevant owner's manual supplied with this product), by an authorised MAKINEX dealer or MAKINEX service technician. You are free to have your MAKINEX product serviced by any suitably qualified mechanic or electrician (depending on the mechanical or electrical requirement) and this will not affect your statutory warranties, however, failure by the owner to have the recommended servicing carried out by an authorised MAKINEX dealer/service technician means that you cannot take advantage of the MAKINEX limited warranty.

In order to ensure your safety, we strongly recommend that you only use an authorised MAKINEX dealer for servicing. Only authorised MAKINEX dealers have access to all the special tools, technical information, parts and training required to maintain your MAKINEX product in peak operating condition.

MAKINEX warrants each new Forced Action Mixer to be free from defects in material and workmanship under normal domestic and industrial use and service for the period specified below, conditional to the limitations and exclusions printed on this page. This warranty applies only to new MAKINEX products distributed by us and by our authorised MAKINEX dealers.

WARRANTY: (Ex-factory/ Reseller premise)

- 1 year warranty on the motor.
- 1 year warranty on the electrical box.
- 1 Year warranty on the Forced Action Mixer product

Note: Maintenance is not warranty. Excludes service and consumables required at scheduled maintenance intervals)

WARRANTY EXCLUSIONS

This warranty does not cover the following repairs and equipment:

NORMAL WEAR

This warranty does not cover repair when normal use has exhausted the life of a part or the equipment.

INSTALLATION, USE, AND MAINTENANCE

This warranty will not apply to parts and/or labour if this Forced Action Mixer is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond its limits, modified, installed improperly or connected incorrectly.

OTHER EXCLUSIONS

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Failures due to acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original MAKINEX parts.
- Maintenance service costs
- Freight costs

OWNER'S RESPONSIBILITY UNDER LIMITED WARRANTY:

Strict adherence to the maintenance checks and with **proof of scheduled maintenance history** is required by an authorised agent or qualified mechanic. It is the consumer's responsibility to deliver the machine in question to our service premises or to the premises of our appointed agent at the consumer's expense for repair as applicable. Maintenance services are not covered under warranty.

Claim Procedure:

- Contact MAKINEX by phone or email informing us of your machines problem or defect.
- Once the extent of the claim has been assessed, we retain the right to compensate the consumer for such defect, or repair (parts & labour), or replace the machine under warranty.
- All warranties will be carried out by MAKINEX authorised staff or appointed agents at a premise to be determined by the Manufacturer.
- Transportation charges on product submitted for repair under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.
- Warranty repair will only be carried out by our representatives and not via client's choice of repairer. We will not accept back charges for any work not carried out by our representatives or accept any charges due to equipment being un-operational for any reason even during its warranty period.

CONTACT INFORMATION

For sales, service, warranty, and parts for all MAKINEX products; please refer below.

| | SALES, SERVICE, SPARE PARTS & WARRANTY |
|------------------|---|
| AUSTRALIA | <p><u>SALES</u></p> <p>TEL 1300 795 953 or +61 2 9460 8071 WEB www.makinex.com.au</p> <p><u>SERVICE, SPARE PARTS & WARRANTY</u></p> <p>EMAIL service@makinex.com.au</p> |
| USA | <p><u>SALES</u></p> <p>TEL +1 855-625-4639 WEB www.makinex.com</p> <p><u>SERVICE, SPARE PARTS & WARRANTY</u></p> <p>EMAIL service@makinex.com</p> |
| UK | <p><u>SALES</u></p> <p>TEL +44 161 339 2223 EMAIL sales@multiquip.co.uk</p> |

Or your nearest MAKINEX distributor

We have very knowledgeable, experienced staff to assist you with help and advice.



| | | | | | | |
|---|--|---|--|--|--|--|
| PRODUCT NAME: FORCED ACTION MIXER - 120 | | Assessment Carried Out By: Hayden Ellis, Andy Leung | | | | |
| MANUFACTURER: MAXIMEX | | Document Revision Number: A | | | | |
| OPERATOR COMPETENCY: PLANT LICENCE NOT REQUIRED | | Date Created: | | | | |
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