Operator’s Safety and Service

Mortar & Plaster Mixer Manual

MM6 / MM6P
MM8 / MM8P
MM10 / MM12 / MM12G
# TABLE OF CONTENTS

1. Serial Number Location ................................................................. 3
2. Parts Ordering Procedure ............................................................... 3
3. Operating Instructions ................................................................. 4
4. Safety Precaution ........................................................................ 5
5. Safety Notice & Decals ................................................................. 6
6. Safety Decal Location ................................................................. 8
7. Before Operating ........................................................................ 10
8. Operation Instruction ................................................................. 11
9. Adding Fluids & Towing ............................................................... 12
10. Service Instructions .................................................................. 13
11. Maintenance Schedule .............................................................. 13
12. Replacements ............................................................................ 13
13. Equipment General Specs ......................................................... 13-15
14. Torque Chart ........................................................................... 16
15. Warranty .................................................................................. 17
16. Warehouse Locations ............................................................... 18
17. Additional Notes ...................................................................... 19
18. Parts List Breakdown ............................................................... Attachment
1. SERIAL NUMBER LOCATION

The model/serial number decal is located on the mixer frontal leg.

To be eligible to your Life time warranty on bearings & seals and extended Warranty of 5 years on gearbox units please register your mixer online at https://tkequip.com/warranty/

(Write model number)

(Write serial number)

The unit year of manufacturing can be determined by its serial number. So, keep this information handy at all times, use your unit serial number when ordering parts.

This Unit warranty is stated in this Operational and Safety manual on page 16. Failure to return warranty registration card renders the warranty null and void.

An engine owner’s manual is also attached to every unit. Engine parts must be order from any authorized HONDA dealer, or other if different than HONDA. Refer to the engine owner’s manual to learn about specifications and part identification.

2. PARTS ORDERING PROCEDURE:

Parts must be ordered through your local distributor or online using our partner internet parts dealers. If you can’t locate a local distributor in your area visit us online at www.tkequip.com for information so we can locate the nearest dealer and contact numbers for assistance.

All Dealers are welcome to send us an email to: service@btmequipment.com or parts@btmequipment.com

All Dealers are welcome to order parts via fax by dialing (956) 462-2500

All Dealers are welcome to order parts by dialing our Number (956) 796-9411

All HONDA warranties and parts ordering must be through a Honda dealer. Please visit https://engines.honda.com/dealer-locator for more information.
REMEMBER – You own the best Mixer. If repairs are needed use only OEM purchased parts from authorized distributors.

ALWAYS HAVE READY:

1. Dealer Account number
2. Dealer Name and Address
3. Shipping address and method of shipping if different than billing address.
4. Applicable model and serial number of machine(s).
5. Item part number(s), description, and quantity.

3. OPERATING INSTRUCTIONS

This Operation manual contains only standard parts. Variations of these parts as well as other special accessories are not included. Contact your local distributor for assistance in identifying parts not included in this manual.

ASSEMBLY INSTRUCTIONS (IF MIXER STANDING ON END)

1. Remove the mixer and all components from its shipping crate. You will see:
   - (2) Rim and tire assemblies.
   - (1) Axle assembly with hubs on each side, (1) idler spring, and (8) lug nuts.
   - (1) Selected hitch with (1) ¼ screw w bolt & (1) safety bolt & (1) hair pins.

   Note: All installation hardware must be inserted into its respective location on the mixer, reference parts breakdown for more details if needed.

2. After removing all mixers’ protecting packing, while standing on an end, locate the axle’s place on the mixer. You need to locate the bolts attached to the mixer shroud, bolted to the pallet and make sure these bolts are removed.
3. Lift the axle up to the mixer frame and position it with the bracket spring lined up to the idler clutch hole on the mixer’s frame.
4. Insert (2) 1/2-inch bolts with a washer through the frame and the vertical mounting bracket on the axle. Secure each bolt with a washer and locknut. **Tight to 57 ft.-lbs.**
5. Remove the lug nuts from the axle and mount the speed wheel, after wheel is mounted proceed to place the lug nuts (make sure the conical (tapered) end is facing the inside of the wheel. **Torque to 105 ft.-lbs.**
6. Proceed with the second wheel using the steps of point #5.
7. Hook one end of the spring to the idler arm bracket. Hook the other end of the spring to the spring plate on the axle. The spring should be hooked to the hole closer to the axle bracket edge; second hole is used when spring present wearing on the field.

8. Using appropriated Equipment, put the mixer down to the ground. **Warning: failure to use proper lifting equipment could cause mixer to fall and cause serious injury.**

9. Adjust the safety chain through the key slots in the front leg. Adjust the chain’s ends to equal length.

10. Remove the safety bolt and pin from the tow bar.

11. Install the selected tow bar through the frontal leg.

12. Insert the pin through the front leg and the front hole in the tow bar. Secure the pin with a hairpin cotter.

13. Insert the 3/4” bolt through the rear hole and secure with a lock washer and nut. Tighten securely.

4. SAFETY PRECAUTIONS

READ AND STUDY THE FOLLOWING SAFETY INFORMATION BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT. IN ADDITION, ENSURE THAT EVERY INDIVIDUAL WHO OPERATES OR WORKS WITH THIS EQUIPMENT IS FAMILIAR WITH THESE SAFETY PRECAUTIONS.

IT IS THE OPERATOR’S RESPONSIBILITY TO OPERATE OUR MACHINES ONLY WHEN WEARING THE PROPER PROTECTION RECOMMENDED BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. HARM OR DEATH BY INHALING PARTICLES OR OTHER PHYSICAL INJURY MAY OCCUR IF THIS MACHINE IS OPERATED WITHOUT USING THE PROPER SAFETY GEAR, OR FOLLOWING THE APPROPRIATE PROCEDURES IN THIS MANUAL.

---

**WARNING**

Engine exhaust and some of its constituents, and some dust created of California to cause cancer, birth defects and other reproductive harm by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks.
- Cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: ALWAYS work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

040620
**WARNING - LETHAL EXHAUST GAS!**
An internal combustion engine discharges carbon monoxide, which is a poisonous and odorless invisible gas. Death or serious illness may result if inhaled. Operate only in an area with good ventilation.

**NEVER IN A CONFINED AREA!**

**WARNING - DANGEROUS FUELS!**
Use extreme caution when storing, handling and using fuels - they are highly volatile and explosive in the vapor state. Do not add fuel while engine is running. Stop and cool the engine before adding fuel.

**DO NOT SMOKE WHEN REFUELING!**

**SAFETY GUARDS**
It is the owner's responsibility to ensure **ALL GUARDS AND SHIELDS** are in place and in working order.

**IGNITION SYSTEMS**
Breakerless magneto and batteries ignition systems **CAN CAUSE SEVERE ELECTRICAL SHOCKS**, avoid contact with these components or their wiring.

**SAFE DRESS**
**DO NOT WEAR** loose clothing, rings, wristwatches, etc., near machinery.

**NOISE PROTECTION**
Wear O.S.H.A. specified hearing protection devices.

**FOOT PROTECTION**
Wear O.S.H.A. specified steel tip safety shoes.

**HEAD PROTECTION**
Wear O.S.H.A. specified safety helmets.

**EYE PROTECTION**
Wear O.S.H.A. specified eyes shields, safety glasses, and sweat bands.

**DUST PROTECTION**
Wear O.S.H.A. specified dust mask or respirator.

**OPERATOR**
Keep children and bystanders off and away from the equipment.

For details on safety rules and regulations in the United States, contact your local Occupational Safety and Health Administration (O.S.H.A.) office. Equipment operated in other countries must be operated and serviced in accordance and compliance with any and all safety requirements of such country. The publication of these safety precautions is done for your information does not by the publication of these precautions, imply or in any way represent that these are the sum of all danger’s present near equipment. If you are operating this unit it is your responsibility to ensure that such operation is in full accordance with all applicable safety requirements and codes. All requirements of the United States Federal Occupational Safety and Health Administration Act must be met when operated in areas that are under the jurisdiction of that United States Department.
5. SAFETY NOTICE & DECALS

The "SAFETY ALERT SYMBOL" is used to call attention to items or operations that may be dangerous to those operating or working with this equipment. These symbols can be found throughout the manual and on the unit itself. Please read these warnings and cautions carefully.

READ SAFETY DECALS CAREFULLY

Carefully read and follow all safety decals. Keep them in good conditions. If they become aged, replace as required. If repainting, REPLACE ALL decals. Decals are available from your authorized Distributors. Decals are not shown to scale.

---

**CAUTION**
WHEN TOWING, ENSURE DRAWBAR IS IN THE MIDDLE POSITION.

---

**WARNING**
ROTATING PART HAZARD
ALWAYS STAND CLEAR OF THE DUMP HANDLE WHEN MIXER IS IN OPERATION. ANY BINDING OF MATERIAL BETWEEN MIXER BLADES AND THE DRUM MAY CAUSE DRUM HANDLE TO QUICKLY MOVE TO THE CHARGE POSITION.

---

**CAUTION**
2-PERSON LIFT REQUIRED TO POSITION MIXER HITCH ON/OFF VEHICLE

---

**NOTICE**
- ENSURE THE VEHICLE HAS TOWING CAPACITY FOR THE WEIGHT OF THIS MACHINE.
- DO NOT TOW MACHINE UNLESS THE DRAW BAR IS BOLTED IN PLACE AND THE SAFETY PIN IS SECURELY FASTENED.
- CLOSE ENGINE FUEL CUTOFF BEFORE TOWING MIXER TO PREVENT LEAKING OIL INTO ENGINE CRANKCASE.
- 2-PERSON LIFT PER UNIT TO POSITION MIXER ON VEHICLE.
- SECURELY ATTACH HITCH TO TOWING VEHICLE. ENSURE USE OF SAFETY PIN THROUGH LATCH OR HANDWHEEL FOR BALL TYPE HITCH.
- SAFETY CHAIN ATTACHMENT (SEE PICTURE) MUST CROSS UNDER THE DRAW BAR AND BE POSITIONED TO PREVENT THE DRAW BAR FROM DROPPING TO THE GROUND IN THE EVENT OF HITCH FAILURE.
- CONNECT LIGHTING PLUG/ELECTRIC BRAKE PLUG (WHEN APPLICABLE)
- MAKE CERTAIN THAT THE WHEEL LUG NUTS AND AXLE MOUNT HARDWARE IS TIGHTENED.
- CHECK PRESSURE AND OVERALL CONDITION OF TIRES.
- TEST BREAKS (IF APPLICABLE)

---

**WARNING**
USE GASOLINE FUEL ONLY

---

**DANGER**
ELECTROCUTION HAZARD
1. Turn machine off, wait 5 minutes, and disconnect power source, unfuse power cord and wait for moving parts to stop before servicing or repairing machine or electrical components.
2. Keep electrical components in good condition.

---

**WARNING**

---

**EMERGENCY STOP**
PUSH TO STOP

---

GX160 6:1 RED ENGINE OIL FILLER

---

7
EXCESSIVE TOWING SPEED CAN CAUSE SERIOUS INJURIES OR DEATH.

DO NOT EXCEED 45 MI/HR. (73 KM/HR.)

- BE CERTAIN THAT THE WHEEL LUG NUTS AND AXLE MOUNTING HARDWARE ARE TIGHTENED.
- CHECK PRESSURE AND OVERALL CONDITIONS OF TIRES.

MISSING GUARD HAZARD
INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.

MISSING GUARD HAZARD
INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.

ROTATING PART HAZARD
KEEPS AWAY
TO PREVENT SERIOUS INJURY OR DEATH ROTATING PARTS.

- INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.
- DO NOT PLACE HANDS IN DRUM UNLESS THE MOTOR OR ENGINE IS OFF AND THE POWER CORD IS UNPLUGGED OR THE KILL SWITCH ACTIVATED.
- KEEP HANDS, FEET, HAIR AND LOOSE CLOTHES AWAY FROM MOVING PARTS.

CHECK LIST

- CHECK AND TIGHTEN WHEN NECESSARY ALL NUTS AND BOLTS.
- CHECK MIXER PADDLE AND WIPERS ADJUSTMENTS AND TIGHTEN PADDLE BOLTS.
- GREASE ALL FITTINGS – GREASE DRUM SEALS TO AVOID DOWN TIME ON REPAIRS.
- CHECK BELT ADJUSTMENT AND TIGHTEN BELT IF NECESSARY.
- CHECK BELT PRESSURE. INFLATE 12” AND 13” TO 30 PSI. 8” TIRES TO 45 PSI. WHEEL LUG TORQUE MUST BE 105 LBF.
- ENSURE THE DRUM LOCK AND HOOD FASTENER ARE IN LOCKED POSITION BEFORE TRANSPORTATION.

WARNING
45 mi/hr.

EXCESSIVE TOWING SPEED CAN CAUSE SERIOUS INJURIES OR DEATH.

DO NOT EXCEED 45 MI/HR. (73 KM/HR.)

- BE CERTAIN THAT THE WHEEL LUG NUTS AND AXLE MOUNTING HARDWARE ARE TIGHTENED.
- CHECK PRESSURE AND OVERALL CONDITIONS OF TIRES.

MISSING GUARD HAZARD
INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.

MISSING GUARD HAZARD
INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.

ROTATING PART HAZARD
KEEPS AWAY
TO PREVENT SERIOUS INJURY OR DEATH ROTATING PARTS.

- INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.
- DO NOT PLACE HANDS IN DRUM UNLESS THE MOTOR OR ENGINE IS OFF AND THE POWER CORD IS UNPLUGGED OR THE KILL SWITCH ACTIVATED.
- KEEP HANDS, FEET, HAIR AND LOOSE CLOTHES AWAY FROM MOVING PARTS.
**WARNING**

1. Read and understand Operator’s Manual and Safety Signs before starting.
2. Stop engine, disconnect spark plug wire and wait for all moving parts to stop before servicing, maintaining, adjusting or cleaning.
3. Keep hands, feet, hair or clothing away from moving parts.
4. Install, close and secure all guards, shields and hoods before operating.
5. Do not place hands in the drum unless engine is off and spark plug is disconnected or motor is off and power cord is unplugged.
6. Stay away from hot engine components during operation.
7. Have a licensed electrician wire up electric motors.
8. Do not smoke when refueling.
9. Use power cord with required capacity to carry power to electric motor.
10. Follow good safety procedures when handling fuel.
11. Route the power cord out of the way and protect it from damage.
12. Do not operate in an explosive atmosphere or a poorly ventilated area.
13. Have a licensed electrician wire up electric motors.
14. Do not smoke when refueling.
15. Use gasoline fuel only.
17. Keep working areas dry and clean to prevent slipping and tripping.
18. Always attach safety chain when towing.
19. Comply with applicable transporting regulations when towing.
20. Do not exceed a safety travel speed when transporting.
21. Slow down for corners and when going over rough terrain.
22. Use gasoline fuel only.
23. Route the power cord out of the way and protect it from damage.
24. Do not operate in an explosive atmosphere or a poorly ventilated area.
25. Keep working areas dry and clean to prevent slipping and tripping.

**CHECK LIST**

- Check and tighten when necessary all nuts and bolts.
- Check mixer paddle and wiper adjustments and tighten paddle bolts.
- Grease all fittings – grease drum seals to avoid downtime on repairs.
- Check belt adjustment and tighten belt if necessary.
- Check tire pressure. Inflate 12” and 13” to 30 PSI. 8” tires to 45 PSI.
- Ensure the drum lock and hood fastener are in locked position before transportation.

**USE GASOLINE FUEL ONLY**

**When is electric**

**DANGER**

1. Turn machine off, shut down and lock out power source, unplug power cord and wait for moving parts to stop before servicing, maintaining, adjusting or cleaning.
2. Keep electrical components in good condition.

**DANGER**

1. Improper operation of this equipment can cause serious injury or death.
   - Read and understand the manufacturer’s manual supplied with this machine before operation or servicing.
   - Modification or alteration of this machine will void manufacturer’s warranty.
   - Do not alter or modify this machine without the express written consent of the manufacturer.

**WARNING**

1. Read and understand operator’s manual and safety signs before starting.
2. Stop engine, disconnect spark plug wire and wait for all moving parts to stop before servicing, maintaining, adjusting or cleaning.
3. Keep hands, feet, hair or clothing away from moving parts.
4. Install, close and secure all guards, shields and hoods before operating.
5. Do not place hands in the drum unless engine is off and spark plug is disconnected or motor is off and power cord is unplugged.
6. Stay away from hot engine components during operation.
7. Have a licensed electrician wire up electric motors.
8. Do not smoke when refueling.
9. Use power cord with required capacity to carry power to electric motor.
10. Follow good safety procedures when handling fuel.
11. Route the power cord out of the way and protect it from damage.
12. Do not operate in an explosive atmosphere or a poorly ventilated area.
13. Keep working areas dry and clean to prevent slipping and tripping.
15. Comply with applicable transporting regulations when towing.
16. Do not allow riders during transporting.
17. Do not exceed a safety travel speed when transporting.
18. Slow down for corners and when going over rough terrain.

**DANGER**

1. Fire hazard:
   - No smoking to prevent serious injury or death.
   - Do not operate in an explosive atmosphere.
   - Keep flammable, fuels, and heat sources away from flammable substances.

**WARNING**

1. Improper operation of this equipment can cause serious injury or death.
2. Read and understand the manufacturer’s manual supplied with this machine before operation or servicing.
3. Modification or alteration of this machine will void manufacturer’s warranty.
4. Do not alter or modify this machine without the express written consent of the manufacturer.
**WARNING**

EXCESSIVE TOWING SPEED CAN CAUSE SERIOUS INJURIES OR DEATH. DO NOT EXCEED 45 MI/HR. (73 KM/HR.)

- BE CERTAIN THAT THE WHEEL LUG NUTS AND AXLE MOUNTING HARDWARE ARE TIGHTENED.
- CHECK PRESSURE AND OVERALL CONDITIONS OF TIRES.

**NOTICE**

- ENSURE THE VEHICLE HAS TOWING CAPACITY FOR THE WEIGHT OF THIS MACHINE.
- DO NOT TOW MACHINE UNLESS THE DRAW BAR IS BOLTED IN PLACE AND THE SAFETY PIN IS SECURELY FASTENED.
- CLOSE ENGINE FUEL CUTOFF BEFORE TOWING MIXER TO PREVENT LEAKING OIL INTO ENGINE CRANKCASE.
- 2-PERSON LIFT PER UNIT TO POSITION MIXER ON VEHICLE.
- SECURELY ATTACH HITCH TO TOWING VEHICLE. ENSURE USE OF SAFETY PIN THROUGH LATCH OR HANDWHEEL FOR BALL TYPE HITCH.
- SAFETY CHAIN ATTACHMENT (SEE PICTURE) MUST CROSS UNDER THE DRAW BAR AND BE POSITIONED TO PREVENT THE DRAW BAR FROM DROPPING TO THE GROUND IN THE EVENT OF HITCH FAILURE.
- CONNECT LIGHTING PLUG/ELECTRIC BRAKE PLUG (WHEN APPLICABLE)
- MAKE CERTAIN THAT THE WHEEL LUG NUTS AND AXLE MOUNTING HARDWARE ARE TIGHTENED.
- CHECK PRESSURE AND OVERALL CONDITION OF TIRES.
- TEST BRAKES (IF APPLICABLE)

**WARNING**

ROTATING PART HAZARD KEEP AWAY TO PREVENT SERIOUS INJURY OR DEATH ROTATING PARTS:

1. INSTALL, CLOSE AND SECURE ALL GUARDS, SHIELDS AND HOODS BEFORE OPERATING.
2. DO NOT PLACE HANDS IN DRUM UNLESS THE MOTOR OR ENGINE IS OFF AND THE POWER CORD UNPLUGGED OR THE KILL SWITCH ACTIVATED.
3. KEEP HANDS, FEET, HAIR AND LOOSE CLOTHES AWAY FROM MOVING PARTS.

**CAUTION**

2-PERSON LIFT REQUIRED TO POSITION MIXER HITCH ON/OFF VEHICLE

**CAUTION**

WHEN TOWING, ENSURE DRAWBAR IS IN THE MIDDLE POSITION.

**DANGER**

THE ENGINE EXHAUST AND SOME OF ITS CONSTITUENTS FROM THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS INCLUDING CARBON.

TO MINIMIZE EXPOSURE, AVOID BREATHING EXHAUST. ONLY USE THIS PRODUCT IN WELL VENTILATED AREAS.

FOR MORE INFORMATION VISIT: www.P65warning.ca.gov

DE1700
7. BEFORE OPERATING

- **REMEMBER!** It is the owner’s responsibility to communicate information on the safe use and proper operation of this unit to the operators.
- Before operating, review SAFETY PRECAUTIONS listed on page 5 of this manual.
- Familiarize yourself with the operation of the unit and confirm that all controls function properly BEFORE starting engine.
- Locate the killing switch and assure you know how to STOP the unit.
- Make sure hands, feet, and clothing are at a safe distance from any moveable parts prior to starting.
- Shrouds and grids are provided to protect the operator or structures in close proximity to rotating hot engine parts. It is the RESPONSIBILITY OF THE OPERATOR to see that they are properly in place.
- OIL LEVEL - Check the oil level in the engine. For more information see "Lubrication" under the engine "Owner's Manual" the "Maintenance" section of this manual.

All mixers come without oil on ENGINE & GEAR REDUCER COMPARTMENT. GX160 ENGINES W/ 6:1 REDUCER BOX has TWO (2) oil compartments. Running an engine without lubrication may damage this unit.

- AIR CLEANER - Check to ensure elements are in good condition and properly installed.
- Review every decal with the OPERATOR.
- FUEL SUPPLY – Mixer engines require an automotive grade of clean, fresh, unleaded or regular gasoline. All mixers come WITHOUT gasoline, oil or any other fluid.
- FUEL FILTER - Check to ensure element is in good condition... Replace if it is clogged or damaged.
- LUBRICATION POINTS - Make sure all pillow blocks and drum’s trunnions have been properly greased.
- PADDLES AND BLADES - Check the paddles wipers and make sure they are adjusted to about 3/16" interference with the drum. This is mandatory after installing rubber blades on the paddles. Wipers can be adjusted at a desired position.

8. OPERATION INSTRUCTION

Prior to starting engine, make sure mixer engagement lever is in the "IDLE" POSITION, and drum is complete lock on its mix/tow position.
Check Gas engine

1. Open the fuel valve.
2. Pull the stop switch on the engine shroud to its "Out" position.
3. Move the engine throttle control to the "FAST" position.
4. Choke the engine X3 times for warming, if necessary.
5. Pull the starter string.
6. After the engine starts, move the choke lever to the open position, move the throttle level to the "IDLE" position and let the engine warm-up for one or two minutes.

Check Electric motor

1. Plug the motor into a suitable power source, according to the motor specs.
2. Move the switch on the motor to the "on" position.

OPERATING

1. Make sure the engagement lever is on the "IDLER" position.
2. Make sure the drum is locked in to avoid drum from flipping over before running engine.
3. Pull the stop switch on the engine shroud to its "Out" position.
4. Pull the engine starter string.
5. Close the engine shroud

![DO NOT OPERATE WITH THE SHROUD OPEN!]

6. Move the engagement lever into the "MIX" position and load the mixer.
7. If you are experiencing belts slipping please make sure the engine base is located at 8-1/4” distance from the mixer engine base frame.

**Do not pour material before paddles are spinning, this can result on mixer damage and will void the unit warranty.**

8. After loading a batch of mortar, it is recommended to add water before adding a second bag.
9. After discharging the final batch of mortar, add water to the drum while the mixer is running. Discharge the water after to clean excess material.
10. Additional cleaning may be needed.
9. ADDING FLUIDS AND TOWING

GAS ENGINE
1. Move the engagement lever to the "IDLER" position and lock drum.
2. Pull off the engine stop switch on the engine shroud.
3. Close the fuel valve.
4. Add oil to continue operation / Drain oil if need oil change.
5. Add gasoline if needed.

STOP THE ENGINE OR ELECTRIC MOTOR BEFORE:
1. Adding fuel/Oil.
2. Leaving equipment unattended for any amount of time.
3. Making any repairs or adjustments to the unit.
4. Transportation.

BEFORE TOWING:
1. Make sure the axle and tow bar hardware is tightened.
2. Check the condition of the pin on the tow bar and make sure it is secured.
3. Remove any loose debris from the mixer.
4. Use safety chains when towing.

TOWING:
1. Stop the engine or electric motor.
2. Close and hook the engine should.
3. Rotate the drum into the tow position and secured it with the locking pin.
4. Secure the mixer hitch and safety chains to the vehicle.

MAXIMUM TOW SPEED: 45 mph (72 Km/h)

10. SERVICE INSTRUCTIONS

- Never service or lubricate the unit engine while running.
- After servicing the unit, restore and fasten all guards, shields, and covers to their original positions.
- Never drain oil into the ground, into open streams, or down sewage drains.

ENGINE
See engine owner’s manual maintenance schedule.
If lost please visit https://engines.honda.com/parts-and-support/owners-manuals for more information.
DRUM

1. Wash the drum after every day’s usage.
2. Pull the locking pin and tip the drum forward to drain water excess.
3. Leave mixer drum facing down to avoid rain water, snow, dust or any other weather particles to get inside the mixer drum when not in use.
4. Secure with locking pin before moving mixer for towing or storing.

LUBRICATION

1. Grease all fittings daily. All mixers have 6 grease fittings, 4 pillow blocks and 2 drum trunnions. Two of the fittings are located at each end of the mixer drum on the top of pillow blocks and trunnions. The two remaining grease fittings are located under the engine shroud on the top of the intermediate shaft pillow blocks (see picture below).
2. Electric mixers only: oil the drive chain once a week.

11. MAINTENANCE SCHEDULE

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Each use</th>
<th>Every 20 hours</th>
<th>Every 50 hours</th>
<th>Every 100 hours</th>
<th>Yearly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>Refer to engine operator/owner manual</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Bearings</td>
<td>Grease</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>V-Belts</td>
<td>Check for excessive wear</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Hardware</td>
<td>Check and tighten 1,2</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Tires</td>
<td>Check air pressure</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

1. Check all hardware after the first 5 hours of use, the follow the maintenance schedule.
2. Re-torque the front leg and axle hardware after the first 50 miles traveled, and then follow the maintenance schedule.
12. REPLACEMENT

Parts

*Engine Components*

- ✓ Refer to your engine manufacturer’s Owner’s Manual
- ✓ Replace if stretched to the point that the idler does not work properly. Replace the V-belts if they are cracked or torn.
- ✓ Replace if the teeth are cracked or have become sharp.

*V-Belts*

- ✓ Re-torque all bolts after the first eight hours of operation and check hardware every 25 hours. Replace any worn or damaged hardware as needed. Replacement hardware should be grade 5 and zinc plated.

*Gears*

*Hardware*

Safety Decals

- ✓ Replace if they become aged, damaged or cannot be easily read.

13. EQUIPMENT SPECS

MM Gas RPM = 31.15
MM Elect RPM = 46.87

<table>
<thead>
<tr>
<th></th>
<th>X</th>
<th>Y</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>MM6</td>
<td>28&quot;</td>
<td>27-11/16&quot;</td>
<td>24-1/16&quot;</td>
</tr>
<tr>
<td>MM8</td>
<td>28&quot;</td>
<td>30-3/4&quot;</td>
<td>27-1/2&quot;</td>
</tr>
<tr>
<td>MM10</td>
<td>32-1/2&quot;</td>
<td>30-13/16&quot;</td>
<td>27-5/8&quot;</td>
</tr>
<tr>
<td>MM12</td>
<td>32-1/2&quot;</td>
<td>32-3/16&quot;</td>
<td>30-3/8&quot;</td>
</tr>
<tr>
<td>MODEL</td>
<td>MM6</td>
<td>MM8</td>
<td>MM10</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
</tr>
<tr>
<td>Batch Capacity bags</td>
<td>1 - 2 bags</td>
<td>2½ - 3 bags</td>
<td>3 - 3½ bags</td>
</tr>
<tr>
<td>Total Capacity cu.ft. (Lt)</td>
<td>7.21 cu. ft (204)</td>
<td>9.45 cu. ft (267)</td>
<td>10.97 cu. ft (310)</td>
</tr>
<tr>
<td>Mixing Capacity cu.ft. (Lt)</td>
<td>6 cu. ft (170)</td>
<td>8 cu. ft (230)</td>
<td>9.5 cu. ft (270)</td>
</tr>
<tr>
<td>Engine Power</td>
<td>Honda 5 or 8 HP or 1.5 HP Electric</td>
<td>Honda 8 HP or 1.5 HP Electric</td>
<td>Honda 8 HP or 2 HP Electric</td>
</tr>
<tr>
<td>Drive System</td>
<td>V-Belt to Gears</td>
<td>V-Belt to Gears</td>
<td>V-Belt to Gears</td>
</tr>
<tr>
<td>Wheel Size</td>
<td>12 x 4.8 High - Speed</td>
<td>13 x 6.5 High - Speed</td>
<td>13 x 6.5 High - Speed</td>
</tr>
<tr>
<td>Overall Width in (cm)</td>
<td>45” (114)</td>
<td>51” (129)</td>
<td>51” (129)</td>
</tr>
<tr>
<td>Length (tow pole in)</td>
<td>76” (193)</td>
<td>76” (193)</td>
<td>76” (193)</td>
</tr>
<tr>
<td>Overall Height in (cm)</td>
<td>55” (140)</td>
<td>58” (147)</td>
<td>60” (152)</td>
</tr>
<tr>
<td>Operating Weight lbs. (Kg)</td>
<td>683 lbs. (309)</td>
<td>772 lbs. (350)</td>
<td>816 lbs. (370)</td>
</tr>
<tr>
<td>Drum Wrap</td>
<td>1/8” Wrap 3/16” Ends</td>
<td>1/8” Wrap 3/16” Ends</td>
<td>3/16” Wrap &amp; Ends</td>
</tr>
<tr>
<td>Drum End Plates</td>
<td>24” drum end 28” end to end</td>
<td>27-1/4” drum end 28” end to end</td>
<td>27-1/4” drum end 32-1/2” end to end</td>
</tr>
<tr>
<td>Drum size ends</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Spiral Blade</td>
<td>Optional</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MM6P</th>
<th>MM8P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Batch Capacity bags</td>
<td>2 - 2½ bags</td>
<td>2½ - 3 bags</td>
</tr>
<tr>
<td>Capacity cu.ft. (Lt)</td>
<td>6 cu. ft (170)</td>
<td>8 cu. ft (230)</td>
</tr>
<tr>
<td>Engine Power</td>
<td>Honda 5 or 8 HP or 1.5 HP Electric</td>
<td>Honda 8 HP or 1.5 HP Electric</td>
</tr>
<tr>
<td>Drive System</td>
<td>V-Belt to Gears</td>
<td>V-Belt to Gears</td>
</tr>
<tr>
<td>Wheel Size</td>
<td>12 x 4.8 High - Speed</td>
<td>13 x 6.5 High - Speed</td>
</tr>
<tr>
<td>Overall Width in (cm)</td>
<td>45” (114)</td>
<td>51” (129)</td>
</tr>
<tr>
<td>Length (tow pole in)</td>
<td>76” (193)</td>
<td>76” (193)</td>
</tr>
<tr>
<td>Overall Height in (cm)</td>
<td>55” (140)</td>
<td>58” (147)</td>
</tr>
<tr>
<td>Operating Weight lbs. (Kg)</td>
<td>500 lbs. (226)</td>
<td>580 lbs. (263)</td>
</tr>
<tr>
<td>Spiral Blade</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Drum Thickness</td>
<td>3/8”</td>
<td>3/8”</td>
</tr>
<tr>
<td>MODEL</td>
<td>MM12</td>
<td>MM12G</td>
</tr>
<tr>
<td>-----------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>Batch Capacity bags</td>
<td>3½ - 4 Bags</td>
<td>3½ - 4 Bags</td>
</tr>
<tr>
<td>Total Capacity cu.ft. (Lt)</td>
<td>13.29 cu.ft (376)</td>
<td>13.29 cu.ft (376)</td>
</tr>
<tr>
<td>Mixing Capacity cu.ft. (Lt)</td>
<td>12 cu.ft (340)</td>
<td>12 cu.ft (340)</td>
</tr>
<tr>
<td>Engine Power</td>
<td>Honda 13 HP or 5HP Electric</td>
<td>Honda 13 HP</td>
</tr>
<tr>
<td>Drive</td>
<td>Double Transmission V-Belt to Gears</td>
<td>Enclosed Gearbox (33 RPM)</td>
</tr>
<tr>
<td>Wheel</td>
<td>13 x 6.5 High - Speed</td>
<td>13 x 6.5 High - Speed</td>
</tr>
<tr>
<td>Overall Width in (cm)</td>
<td>51” (129)</td>
<td>51” (129)</td>
</tr>
<tr>
<td>Length (tow pole in) in (cm)</td>
<td>87” (220)</td>
<td>92” (233)</td>
</tr>
<tr>
<td>Overall Height in (cm)</td>
<td>58” (147)</td>
<td>58” (147)</td>
</tr>
<tr>
<td>Operating Weight lbs. (Kg)</td>
<td>980 lbs. (444)</td>
<td>1120 lbs. (508)</td>
</tr>
<tr>
<td>Drum Wrap</td>
<td>3/16” Wrap</td>
<td>3/16” Wrap</td>
</tr>
<tr>
<td>Drum End Plates</td>
<td>1/4” Ends</td>
<td>1/4” Ends</td>
</tr>
<tr>
<td>Drum Thickness upgrade available up to</td>
<td>1/4” Whole Wrap</td>
<td>1/4” Whole Wrap</td>
</tr>
<tr>
<td>Spiral Blade</td>
<td>Optional</td>
<td>Optional</td>
</tr>
</tbody>
</table>

**14. TORQUE CHART**

**APPROXIMATE TIGHTENING TORQUE**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>GRADE 2</th>
<th>GRADE 5</th>
<th>GRADE 8</th>
</tr>
</thead>
<tbody>
<tr>
<td># 10-24</td>
<td>21 in-lbs</td>
<td>32 in-lbs</td>
<td>45 in-lbs</td>
</tr>
<tr>
<td># 10-32</td>
<td>23 in-lbs</td>
<td>36 in-lbs</td>
<td>51 in-lbs</td>
</tr>
<tr>
<td>1/4-20</td>
<td>49 in-lbs</td>
<td>76 in-lbs</td>
<td>9 in-lbs</td>
</tr>
<tr>
<td>1/4-28</td>
<td>56 in-lbs</td>
<td>87 in-lbs</td>
<td>10 in-lbs</td>
</tr>
<tr>
<td>5/16-18</td>
<td>8 in-lbs</td>
<td>13 in-lbs</td>
<td>18 in-lbs</td>
</tr>
<tr>
<td>5/16-24</td>
<td>9 in-lbs</td>
<td>14 in-lbs</td>
<td>20 in-lbs</td>
</tr>
<tr>
<td>3/8-16</td>
<td>15 in-lbs</td>
<td>23 in-lbs</td>
<td>33 in-lbs</td>
</tr>
<tr>
<td>3/8-24</td>
<td>17 in-lbs</td>
<td>26 in-lbs</td>
<td>37 in-lbs</td>
</tr>
<tr>
<td>7/16-14</td>
<td>24 in-lbs</td>
<td>37 in-lbs</td>
<td>52 in-lbs</td>
</tr>
<tr>
<td>7/16-20</td>
<td>27 in-lbs</td>
<td>41 in-lbs</td>
<td>58 in-lbs</td>
</tr>
<tr>
<td>1/2-13</td>
<td>37 in-lbs</td>
<td>57 in-lbs</td>
<td>80 in-lbs</td>
</tr>
<tr>
<td>1/2-20</td>
<td>41 in-lbs</td>
<td>64 in-lbs</td>
<td>90 in-lbs</td>
</tr>
<tr>
<td>9/16-12</td>
<td>53 in-lbs</td>
<td>82 in-lbs</td>
<td>115 in-lbs</td>
</tr>
<tr>
<td>9/16-18</td>
<td>59 in-lbs</td>
<td>82 in-lbs</td>
<td>129 in-lbs</td>
</tr>
<tr>
<td>5/8-11</td>
<td>73 in-lbs</td>
<td>112 in-lbs</td>
<td>159 in-lbs</td>
</tr>
<tr>
<td>5/8-18</td>
<td>83 in-lbs</td>
<td>112 in-lbs</td>
<td>180 in-lbs</td>
</tr>
<tr>
<td>3/4-10</td>
<td>129 in-lbs</td>
<td>223 in-lbs</td>
<td>282 in-lbs</td>
</tr>
<tr>
<td>3/4-16</td>
<td>144 in-lbs</td>
<td>200 in-lbs</td>
<td>315 in-lbs</td>
</tr>
<tr>
<td>7/8-9</td>
<td>125 in-lbs</td>
<td>322 in-lbs</td>
<td>454 in-lbs</td>
</tr>
<tr>
<td>7/8-14</td>
<td>138 in-lbs</td>
<td>355 in-lbs</td>
<td>501 in-lbs</td>
</tr>
</tbody>
</table>

**APPROXIMATE TIGHTENING TORQUE**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>GRADE 2</th>
<th>GRADE 5</th>
<th>GRADE 8</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-8</td>
<td>188 ft-lbs</td>
<td>483 ft-lbs</td>
<td>682 ft-lbs</td>
</tr>
<tr>
<td>1-12</td>
<td>205 ft-lbs</td>
<td>529 ft-lbs</td>
<td>746 ft-lbs</td>
</tr>
<tr>
<td>1-14</td>
<td>210 ft-lbs</td>
<td>541 ft-lbs</td>
<td>764 ft-lbs</td>
</tr>
<tr>
<td>1-1/8-7</td>
<td>266 ft-lbs</td>
<td>596 ft-lbs</td>
<td>966 ft-lbs</td>
</tr>
<tr>
<td>1-1/8-12</td>
<td>297 ft-lbs</td>
<td>668 ft-lbs</td>
<td>1083 ft-lbs</td>
</tr>
<tr>
<td>1-1/4-7</td>
<td>375 ft-lbs</td>
<td>840 ft-lbs</td>
<td>1363 ft-lbs</td>
</tr>
<tr>
<td>1-1/4-12</td>
<td>415 ft-lbs</td>
<td>930 ft-lbs</td>
<td>1509 ft-lbs</td>
</tr>
<tr>
<td>1-3/8-6</td>
<td>491 ft-lbs</td>
<td>1102 ft-lbs</td>
<td>1787 ft-lbs</td>
</tr>
<tr>
<td>1-3/8-12</td>
<td>559 ft-lbs</td>
<td>1254 ft-lbs</td>
<td>2034 ft-lbs</td>
</tr>
<tr>
<td>1-1/2-6</td>
<td>652 ft-lbs</td>
<td>1462 ft-lbs</td>
<td>2371 ft-lbs</td>
</tr>
<tr>
<td>1-1/2-12</td>
<td>734 ft-lbs</td>
<td>1645 ft-lbs</td>
<td>2668 ft-lbs</td>
</tr>
<tr>
<td>M 6</td>
<td>3 ft-lbs</td>
<td>4 ft-lbs</td>
<td>7 ft-lbs</td>
</tr>
<tr>
<td>M 8</td>
<td>6 ft-lbs</td>
<td>10 ft-lbs</td>
<td>18 ft-lbs</td>
</tr>
<tr>
<td>M 10</td>
<td>10 ft-lbs</td>
<td>20 ft-lbs</td>
<td>30 ft-lbs</td>
</tr>
</tbody>
</table>

**CONVERSIONS**

- in - lbs x 0.083 = ft-lbs
- ft - lbs x 12 = in-lbs
- ft - lbs x 0.1383 = kg-m
- ft - lbs x 1.3658 = Nm
15. WARRANTY

THIS IS YOUR WARRANTY – PLEASE READ AND SAVE

1. Before you use your machine please register your machine at https://tkequip.com/warranty/
2. TK Equip warrants each new machine against any manufacturing defect in material and workmanship under normal use and service for a period of (1) one year. Warranty period begins on first day of use by end user. This first day of use is established by the date of a completed warranty card registration online
3. We do not warranty engines. Engine warranty claims should be made directly to an authorized service center for the particular engine manufacturer. (Please see your engine manual for more details)
4. We reserve the choice to repair or replace. Parts such as engines, motors, pumps, valves, etc. furnished by our equipment but not manufactured by us. These parts will only carry the warranty of their original manufacturer except in special situations as decided upon by our representatives. Warranty claims should be reported immediately, continued use of the machine after a failure could result in additional damage and excessive wear not covered under the warranty terms
5. Our mixers come with a Life time warranty on Bearings & Seals. The obligation under this warranty is limited to the replacement of parts at your local dealer branch or on an authorized distributor. To access this lifetime warranty Mixer must be registered online once is purchased, otherwise we reserve the choice of authorization this warranty
6. Machines altered or modified without a written consent may void this warranty policy immediately. Misuse, negligence, accidents or the operation of the machines in any other way that the recommended by our operation procedures, will void this warranty policy. This warranty shall not apply to machines repaired by other than authorized dealer or distributors.
7. The cost of shipping and down time and other expenses related are not covered by this warranty.
8. Written authorization for the return of merchandise under warranty must be obtain from a member of our customer service. All equipment & parts returned may be sent with a signed RGA (Return Goods Authorization) for its follow up.
9. We reserve the right to inspect and render the final decision on each warranty case.
10. We reserve the right to improve or make product changes without incurring any obligation to update, refit or install on machines previously sold.
11. We are not responsible for any liability, damage or injury directly or indirectly from the design, material or operation of its product. It is the operator’s responsibility to operate our machines only when wearing the proper protection recommended by the Occupational Safety and Health Administration. Harm or death by inhaling particles or other physical injury may occur if this machine is operated without using the proper safety gear, or following the appropriate procedures in this manual.
12. The detailed warranty letter or email must be returned to us within 10 days after purchase/acquired, for a first use failure warranty claim.
13. Warranty request must be submitted in written within 30 days after machine failure to any of our customer service representative.
14. THE FOREIGN WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR USE AND OF ALL OTHER OBLIGATION OR LIABILITIES ON OUR PART, AND WE NEITHER ASSUME NOR AUTHORIZE AINES, MOTOR AND THEIR COMPONENTS.NY OTHE RPERSON TO ASSUME FOR US ANY OF OUR PRODUCTS. LIKEWISE, THIS WARRANTY
Control #: ____________ (Dealer’s internal #)

TK Equipment, Inc.

Lifetime Limited Warranty Application

This warranty application must be filled in by the dealer/distributor at the time of the sale. Please Print

TK Equipment Product Purchased at:___________________________ Phone (_____)___________

Street Address:____________________________________________________________________

City:___________________________ State:_______ Zip:___________________________

Model No.:___________________________ Customer Invoice:_________________ Date:___/___/___

16 DIGIT Serial No.:________________________________________________________________

Customer Name:____________________________________________ Phone: (____)___________

Street Address:____________________________________________________________________

City:___________________________ State:_______ Zip:___________________________

Representative Signature:________________________________________________________________________ Date:___/___/___

Equipment’s Owner Signature________________________________________________________________________ Date:___/___/___

Additional Notes:_________________________________________________________________________________________________________________________
16. CONTACT US

*We are at your service*

We have established a network of reputable distributors with trained mechanics and full facilities for maintenance and rebuilt, and to carry an adequate stock parts in all areas of the country. Their sales engineers are available for professional consultation. If you cannot locate your nearest distributor contact our sales branch listed below so we can point you in the right direction.

**UNITED STATES**

TK EQUIPMENT OFFICE
14419 ATLANAT DRIVE
LAREDO, TX 78045
TEL: (956) 796-9411
FAX: (956) 462-2500

**CONTACT BY E-MAIL**

**SALES**
sales@tkequip.com

**PARTS & SERVICE**
parts@btmequipment.com
service@btmequipment.com

**ACCOUNTING**
accounting@btmequipment.com
accounts@btmequipment.com

**SALES MANAGER**
Octavio Chavez
Sales Manager
manager@tkequip.com

www.tkequip.com
17. ADDITIONAL NOTES:

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________

_________________________________________________________________________