

MH20 20ft³(0.56m³) Mud Hog® Mixing Station Owner's Manual



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INTRODUCTION

Congratulations on purchasing one of the finest pieces of masonry equipment on the market today! If this is your first EZG Manufacturing product, you will not be disappointed. If you have previously owned an EZG Manufacturing product, you will find the same high quality and dependability that you have come to expect from EZG Manufacturing.

ABOUT THIS MANUAL

The purpose of this manual is to inform the owner/employer/and the operator, how to safely operate this piece of equipment, and make them aware of any hazards. It also contains important information regarding assembly, set up, operation, and maintenance. It is the Owner/Employer's responsibility to make sure that anyone who operates this machine understands all safety warnings. If you do not understand any items in this manual, please contact the dealer where this product was purchased, or the manufacturer at the number listed throughout this manual. If you have any suggestions about how to make this manual easier to understand, contact the manufacturer. Keep this manual available for reference wherever this piece of equipment is being used and make it available to any operators.

GENERAL INFORMATION

Illustrations in this manual may show details or components that may not be the same as your machine. Continuing improvements to the design of this machine may have caused changes that are not included in this manual. The information in this document is subject to change without notice.

SAFETY INFORMATION

The following safety symbols and signal words will be used throughout this manual and on the product, for your safety and the safety of others, please become familiar with their meaning and heed their warnings.

<u></u>	This symbol, either used alone or with a signal word, is used to call your attention to instructions involving your safety and/or the safety of others. Failure to follow these instructions will likely result in personal injury or death.
DANGER	This signal word is used to identify a hazard which, if not avoided, will result in death or serious injury.
WARNING	This signal word is used to identify a hazard which, if not avoided, could result in death or serious injury.
CAUTION	This signal word is used to identify a hazard which, if not avoided, could result in minor or moderate injury.
NOTICE	This signal word is used to identify a hazard which, if not avoided, could result in property or equipment damage. It also may be used for special instructions related to performance, maintenance or general items.

SAFETY PRECAUTIONS



WARNING

Failure to obey the following safety instructions could result in DEATH or SERIOUS INJURY.

Read and understand entire manual before operating the Mud Hog®

For your safety and the safety of others, replace any missing or damaged warning decals by contacting the manufacturer at 1-800-417-9272.

Make sure anyone operating the Mud Hog® is thoroughly familiar with its operation. Keep all unauthorized and untrained personnel, especially children, away from Mud Hog®.

Never operate machine with safety grate, guards or safety devices removed or open. Do not alter any safety guards.

Stay clear of mixing paddles while machine is running. Keep all body parts, clothing, jewelry, and solid objects away from all moving parts.

Never perform any work on the Mud Hog® while it is running. Before working on or cleaning the Mud Hog®, shut off engine and disconnect spark plug wire.

Never operate the Mud Hog® under the influence of alcohol, drugs, or medications.

This Mud Hog® has been designed and built as a material mixing station, and should not be used for anything other than its intended purpose.

Consult forklift manufacturers specifications to insure load capacity is not exceeded.

Model	Empty Weight	Max Gross Weight
MH20	2295 lbs. (1040 kg)	5294 lbs. (2401 kg)

Do not exceed Maximum Gross Weight

Never stand under an elevated Mud Hog®.

Stay clear of moving parts while machine is in operation.

When towing, refer to vehicle manufacturers specs to ensure load capacity is not exceeded.

Always check axle, tires, and safety chains before towing Mud Hog®.

Always cross and connect safety chains before towing Mud Hog®.

Never attempt to ride the Mud Hog®.

SAFETY PRECAUTIONS



WARNINGS (continued)

Operate only in properly vented environments. The mixer requires a free flow of air and emits carbon monoxide gas.

Avoid breathing dust produced while using the Mud Hog®. Dust may contain crystalline silica and may cause serious health problems.

Do not operate near combustible materials.

Do not smoke around Mud Hog®.

Always know the location of nearest fire extinguishers, first aid kit, and emergency personnel phone numbers in case of emergency.



CAUTION

Failure to obey the following safety instructions could result in MINOR or MODERATE INJURY.

Inspect all hoses, fasteners, bolts and welds for nicks, cracks, cuts, damage, wear or looseness before each use. Repair as needed.

Always wear approved PPE, including glasses, hearing protection, hard hats, and ventilation masks when operating a Mud Hog®.

Do not use the Mud Hog® as a lifting device or with accessories or attachments not recommended by EZG Manufacturing, as damage to equipment or operator might result.

Avoid contact with hot hydraulic fluid.

Allow system to cool before performing any repairs or service, such as adding fuel or oil.

NOTICE

Use only factory authorized parts.

Used Lubricants such as engine and hydraulic oil, and hazardous waste must be taken to an authorized disposal or recycling center.

Consult Honda® owner's manual for engine maintenance and warnings.

California - Proposition 65 Warning

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

SETUP INSTRUCTIONS

Before operating the Mud Hog® it should be properly set up on the jobsite. The MH20 Mud Hog® weighs 2295 lbs. (1040 kg) empty and 5295 lbs. (2401 kg) full. Check forklift ratings before attempting to move the Mud Hog®. The Mud Hog® is equipped with fork pockets on all sides and can be lifted from any side.

- 1. Raise Mud Hog® with fork lift.
- 2. Fully extend the outriggers by removing the hitch pins, extend the outriggers, and reinsert hitch pins. Each outrigger has a 5/8" (1.6cm) hitch pin and a 1/4" (.6cm) linch pin as the keeper. Make sure the linch pin is locked into position.



WARNING

Do not operate the Mud Hog® without the outriggers fully extended to provide a stable base.

- 3. While raised, set the Mud Hog® to the desired height by adjusting the mixer feet. Each mixer foot allows for 1" (25.4mm) adjustment, has a 3/4" (1.9cm) hitch pin, and a hair pin as the keeper. Make sure each pin is locked into position. In the full down position, the Mud Hog® can dump into most mortar pans. Level the Mud Hog® as close as possible.
- 4. Verify that all mixer feet are touching the ground and that the Mud Hog® is level and cannot rock in any direction. If one of the mixer feet is not touching and cannot be adjusted to touch the ground, shim under that foot with a board to create solid footing.
- 5. Perform the daily maintenance as described in the "Daily Maintenance" section of this manual.
- 6. Check all hydraulic operations using both levers on the hydraulic control valves and the auxiliary valve handles.

OPERATING INSTRUCTIONS



WARNING

This equipment is to be operated by trained and qualified personnel over the age of 18. Death or serious injury can result.

- 1. Slide forks under the Mud Hog® and place in desired location.
- 2. Fully extend outriggers, set and level Mud Hog® securely on ground. See Setup Instructions for proper procedure



WARNING

Outriggers MUST be in the fully extended position before operating.

3. Remove pins and adjust legs to desired height and reinsert pins. See Setup Instructions for proper procedure



WARNING

NEVER put your hands inside mixer drum while equipment is running. Death or serious injury can result.

- 4. Start engine. See engine manuals for proper procedure.
- 5. Fill with material, add water, and mix to desired consistency and dump.

NOTE: In the unlikely event that the mixing paddles plug, momentarily reverse the paddles.

OBTAINING SPARE PARTS

Spare parts for your Mud Hog® may be obtained by the following procedure:

- 1. Record the information from the serial number tag located on the frame near the hydraulic reservoir.
- 2. Using the parts reference table in this manual, record the part number or component.
- 3. Contact your local Mud Hog® dealer or EZG Manufacturing at 1-800-417-9272 with the information recorded.

CLEANUP

- 1. Turn off engine and disconnect spark plug wire.
- 2. For maximum performance, thoroughly clean inside and out at mid-day or lunch break and again at the end of each day's use. Do not allow a buildup of materials to form on the blades and seals.
- 3. Hose out and brush down mixing drum, then spray and brush paddles until all excess material is removed.
- 4. Grease the fittings and brush the face of drum seals until clean.

DAILY MAINTENANCE



WARNING

Before performing any described maintenance items, make sure engine is turned off and spark plug wire is disconnected. Death or serious injury can result.

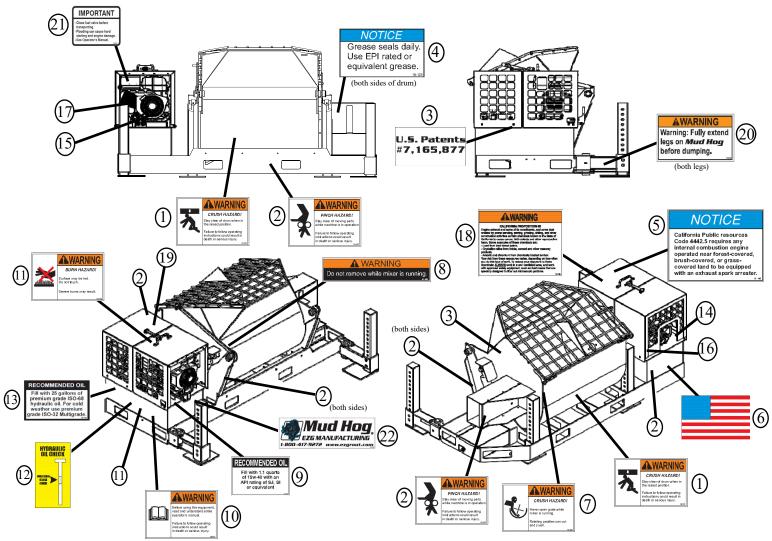
- 1. Check engine oil daily
- 2. For engine maintenance, refer to the engine manufacturer's manual furnished with the Mud Hog®.
- 3. Check and grease all grease fittings.

 See Grease Fitting Location drawing in the manual for grease fitting locations.
- 4. Check hydraulic oil. Add as needed. Change bi-yearly or if contaminated. Change hydraulic filter monthly. Use only recommended premium grade ISO68 Heavy Duty hydraulic oil or equivalent. Do not use contaminated fluid. (Premium grade ISO32 oil may be used in colder climates.)
- 5. For maximum performance, thoroughly clean inside and out at mid-day or at lunch break and again at the end of each day's use. Do not allow a buildup of material to form on the blades and seals.
- 6 Check all hydraulic hoses and equipment for leaks. Fix any leaks before operating the Mud Hog®.
- 7 Check all welds and bolts. If a cracked weld is found, do not operate the Mud Hog® until repaired by qualified personnel. Tighten any loose bolts.
- 8 Check Paddle Shaft Seal for excessive wear. If any mortar or concrete is leaking past the seal, change seals immediately.
- 9 Check paddle rubbers for wear. Adjust or replace as needed.
- 10 Inspect all hoses and fittings for signs of damage, wear, scrapes, kinks or cracking. Replace hoses if any of these conditions are found. It is recommended to replace all hydraulic hoses every 5 years.

SERVICE RECORDS

SERVICE PERFORMED	DATE	INITIALS
	I	1

WARNING LABELS AND LOCATIONS

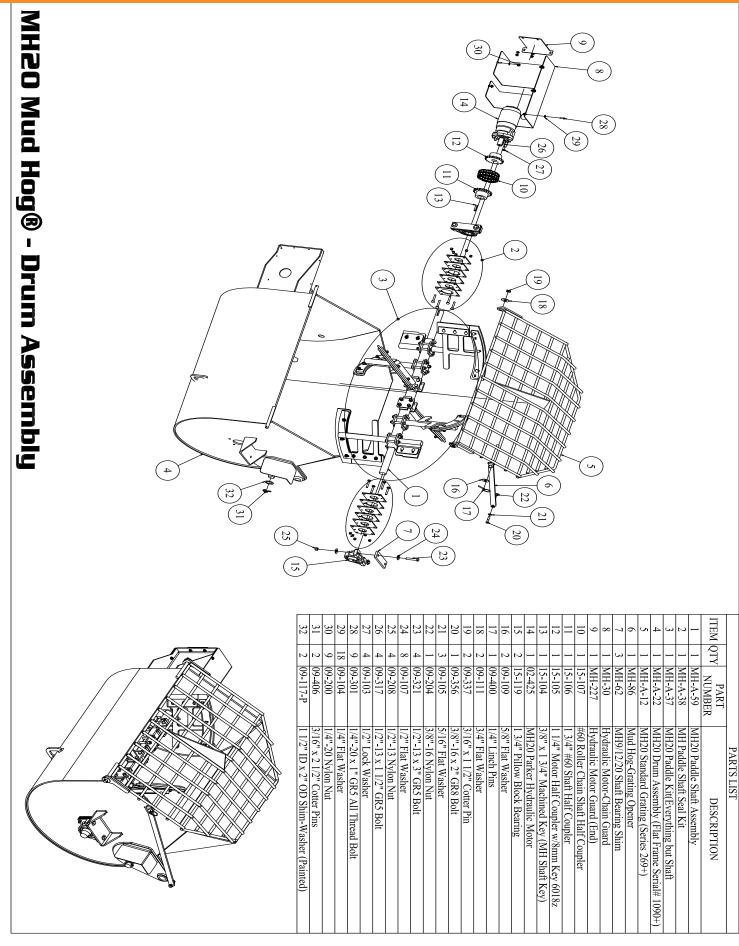


ITEM	PART NUMBER	DESCRIPTION	QUANTITY
Α	16-209	LABEL KIT	1
1		Crush Hazard Decal	2
2		Small Pinch Point Decal	8
3		U.S. Patents Decal	2
4		Grease Seals Daily Decal	2
5		California Public Resources Decal	1
6		U.S. Flag Decal	1
7		Never Open Grate Decal	1
8		Do Not Remove Decal	1
9		Fill with 1.1 Quart Decal	1
10		Read Owners Manual Decal	1
11		Hot Surface Decal	2
12		Check Hydraulic Oil Level Decal	1
13		Fill with 25 Gallons Decal	1
14		Push to Lower/Pull to Dump Decal	1
15		Push for Forward/Pull Reverse Decal	1
16		Push for Reverse/Pull Forward Decal	1
17		Push to Dump/Pull to Lower Decal	1
18		Proposition 65 Decal	1
19		E-STOP	1
20		Fully Extend Legs Decal	2
21		Close Fuel Valve Decal	1
22		Mud Hog Decal	1

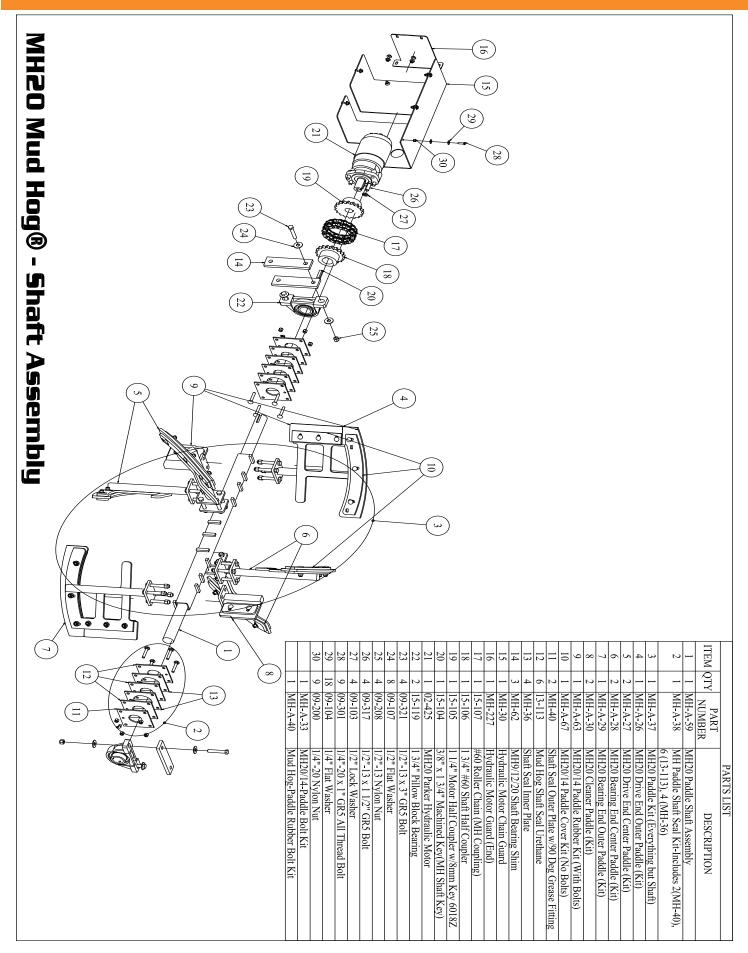
FRAME ASSEMBLY

MH20 Mud Hog® - Frame Assembly 0000 50 49 35 46 48 5 •0000000000 45 43 25 4 6 26 24 40 39 38 28 35 15 42 ITEM QTY 48 45 44 39 29 26 09-352 09-104 09-301 09-105 09-306 09-221 09-31009-202 09-342 09-200 09-400 09-114 09-204 09-31402-204 02 - 31820-103 20-105 MH-178 MH-A-15 MH-A-84 |MH12/20 Lower Cylinder Pin 13-127 20-100 NUMBER 20-126 MH12-Mud Hog Engine Isolation MH20/14 Leg Kit 27 1/2", 4 Legs MH20 Outrigger Assembly (Tool Box Side) MH20 Frame(Flat Plate Design) MH20 Outrigger Pin Assembly MH20 Engine Hood (Fixed-Half) MH20 Engine Hood (Hinged) #10-32 x 1/2" Thread Cutting Screw Type F 5/8" x 6 1/4" Hitch Pins 5/16"-18 x 3/4" GR5 Bol 5/16"-18 Nylon Nut 3/8" x 1 1/2" Fender Washer 5/16" Flat Washer MH20 Vinyl Engine Cover Mud Hog-Vinyl Cover Mount Bar MH20 Hydraulic Hose Cover MH20 Outrigger Assembly (Engine Side) 5/16"-18 x 1 1/4" GR5 Bol 5/16"-18 x 3" GR5 Bolt Clevis Pin 5/16" x 1" 3/8"-16 1 1/4" GR5 Boli 5/16"-18 x 1" GR5 Bolt 3/8"-16 x 2 1/2" GR5 Bolt 3/4" JICM to 3/4" NPTM 45 DEG Hydraulic Fill Cap Assembly Hydraulic Cylinder 3" Bore x 16" Stroke 2-Piece Vibration Mount Neoprene MH12,MH20 Hose Holder Grommet Grab Handle GH Discharge, MH9, MH12. Hood Hold Down Strap Complete Rivets for Name Plates Blank Metal Plates Drum Rest 3/8" x 2" 10332 Bent Pin 3/4" x 4 Otter Pin 1/8" x 3/4" 1/4" Flat Washer 1/4" Linch Pins Hydraulic Filter Filter Head 3/4" NPT Clevis Rod End 5/16" ID x 2 1/2" /2"-20 Hex Nut /4"-20 x 1" GR5 All 6/8"-16 Nylon Nut ./2" JICM to 3/4" NPTM Adaptor /2" Lock Washer /4"-20 Nylon Nut /4"-20 x 3" GR8 Bolt PARTS LIST runion Pins (each) DESCRIPTION Thread 1/2" l Bolt Plate

DRUM ASSEMBLY

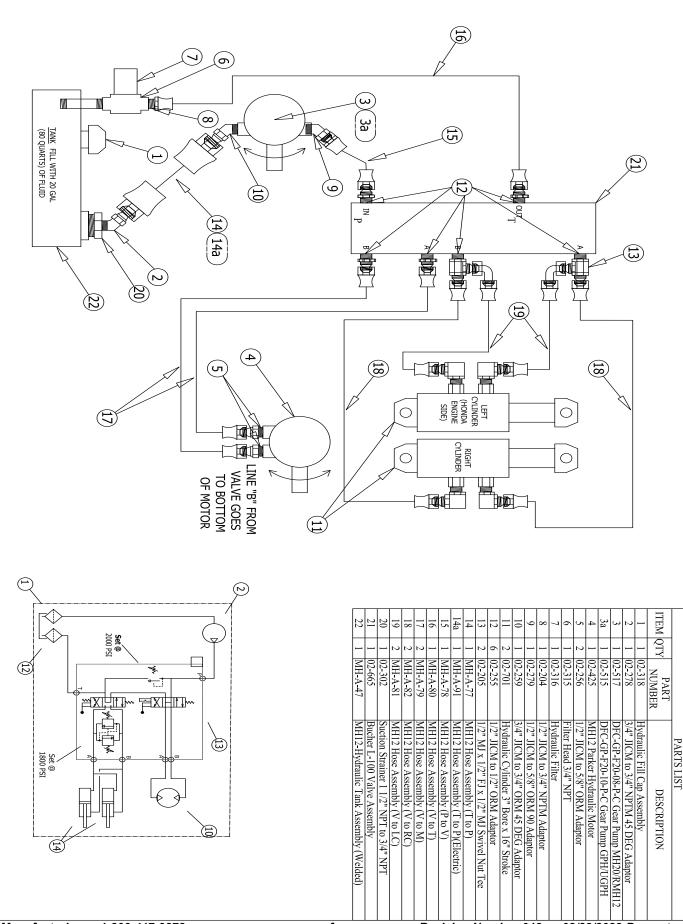


SHAFT ASSEMBLY

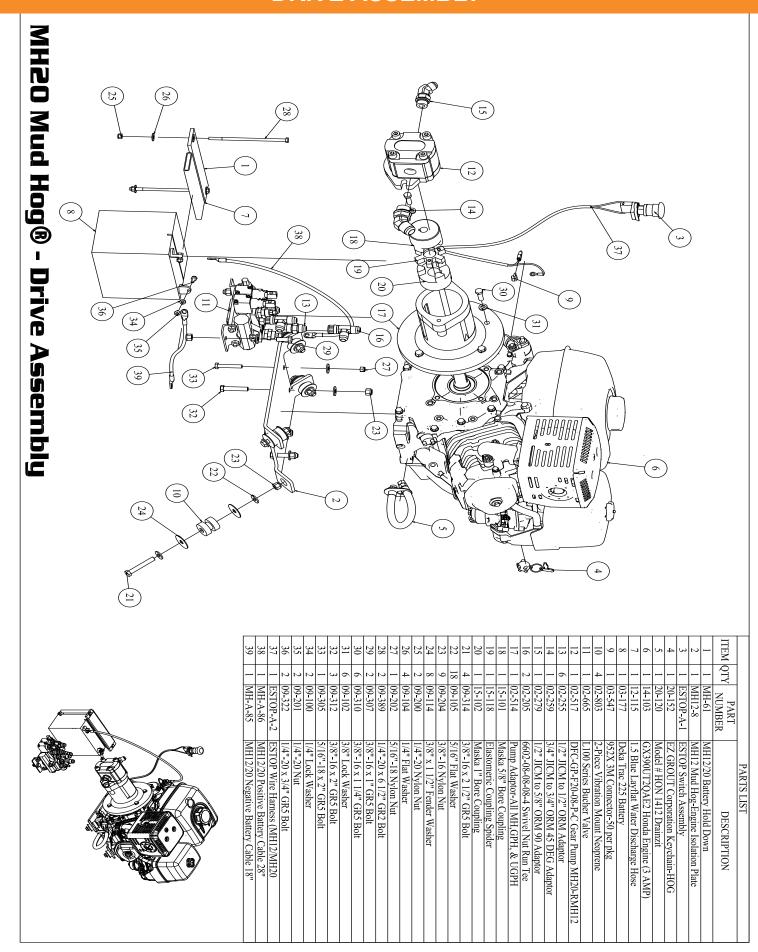


HYDRAULIC ASSEMBLY

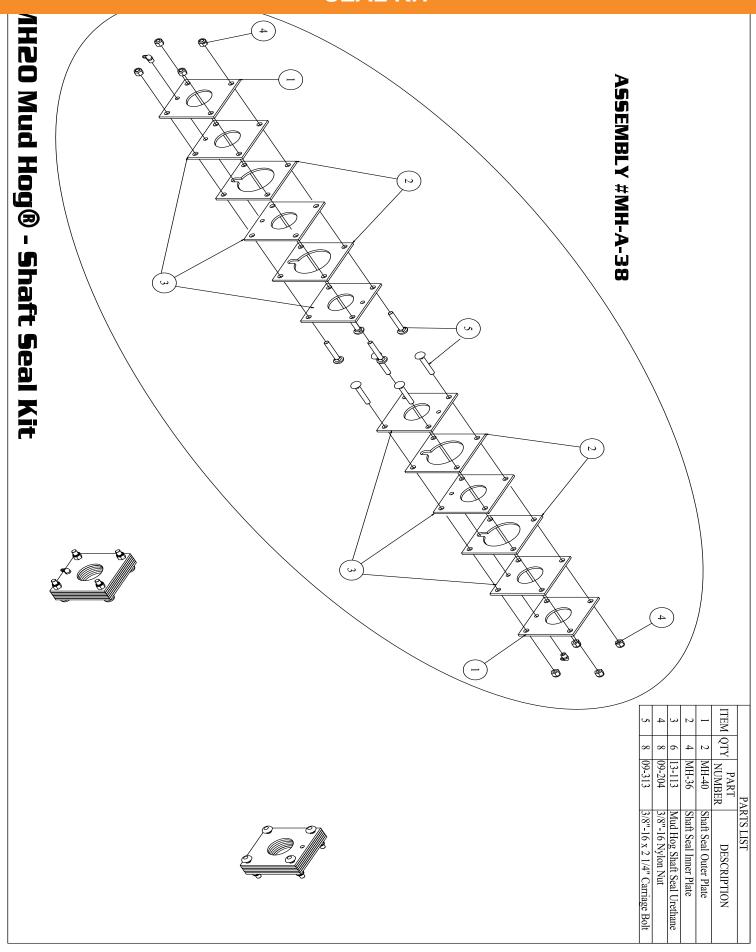
MH20 Mud Hog® - Hydraulic Schematic



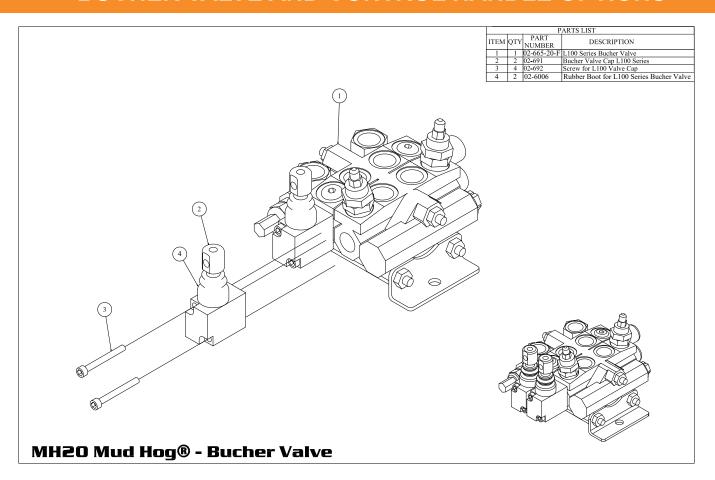
DRIVE ASSEMBLY

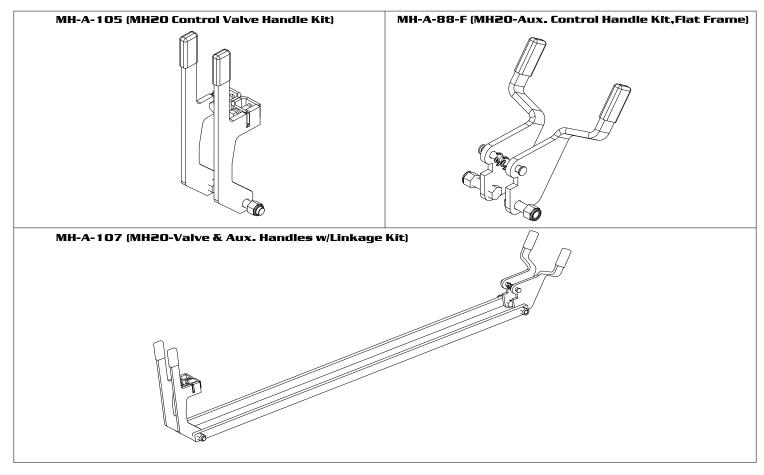


SEAL KIT



BUCHER VALVE AND CONTROL HANDLE OPTIONS





GRATE OPTIONS

MH20 Mud Hog® - Grate Options MH-A-69 (MH2O-Solid Grating-Silo) (Serial 269+) (Serial **2**69+) MH-A-13 (MH2O-Bag Ripper Solid Grate Assembly)

GREASE FITTING LOCATION

MH20 Mud Hog® S/N Location (12)RECOMMENDED OIL Fill with 25 gallons of premium grade ISO-68 hydraulic oil. For cold weather use premium grade ISO-32 Multigrade Check ALL grease fitting locations DAILY. Grease (Hydraulic tank) (00) **GREASE FITTING LOCATION** 0 Fill with 1.1 quart of 15W-40 with an API rating of SJ, SI or equivalent. (For cold weather operation, use 10W-40) RECOMMENDED OIL (Honda engine) \bigcirc as needed. equivalent grease Grease seals daily Jse EPI rated or ATTENTION

NOTES

WARRANTY

Limited Warranty

The manufacturer warrants that products manufactured shall be free from defects in material and workmanship that develop under normal use for a period of one year on all products from the date of shipment. The foregoing shall be the exclusive remedy of the buyer and the exclusive liability of the manufacturer. Our warranty excludes normal replaceable wear items, i.e. gaskets, wear parts, seals, O-rings, belts, drive chains, clutches, etc. Any equipment, part or product which is furnished by the manufacturer but manufactured by another, bears only the warranty given by such other manufacturer. (Manufacturer agrees to furnish free of charge a written description of problem or cause.) Warranty is voided by product abuse, alterations, use of equipment in applications for which it was not intended, use of non-manufacturer parts, or failure to follow documented service instructions. The foregoing warranty is exclusive of all other warranties whether written or oral, expressed or implied. No warranty of merchantability or fitness for a particular purpose shall apply. The agents, dealers, and employees of Manufacturer are not authorized to make modifications to this warranty, or additional warranties binding on the Manufacturer. Therefore, additional statements, whether oral or written, do not constitute warranty and should not be relied upon.

The Manufacturer's sole responsibility for any breach of the foregoing warranty provisions, with respect to any product or part not conforming to the Warranty or the description herein contained, is at its option (a) to repair, replace, or refund such product or parts upon the prepaid return there of to location designated specifically by the Manufacturer. Product returns not shipped prepaid will be refused (b) as an alternative to the foregoing modes of settlement - the Manufacturer's dealer may repair defective units with reimbursement for expenses. A written description of problem or cause must accompany all warranty claims.

Except as set forth here in above and without limitation of the above, there are no warranties or other affirmation which extend beyond the description of the products on the fact here of, or as to operational efficiency, product reliability, or maintainability or compatibility with products furnished by others. In no event, whether as a result of breach of contract or warranty or alleged negligence, shall the Manufacturer, be liable for special or consequential damages including but not limited to: Loss of profits or revenue, loss of use of the product or any associated product, cost of capital, cost of substitute products, facilities or services or claims of customers. Manufacturer does not assume responsibility for any accident due to equipment modification.

No claim will be allowed for products lost or damaged in transit. Such claims should be filed with the carrier within fifteen days.

Effective July 20, 2005

EZG Manufacturing is the exclusive manufacturer of the patented Grout Hog® Grout Delivery System the Mud Hog® Hydraulic Mixing Station, the Hog Trough® mud pan, the Hog Cart™, the Hog Slopper™, the Booger Hog® Wall Scrubber, the Hog Leg® Wall Brace System, and the Hog Crusher™ Material Recycling System.

WARRANTY REGISTRATION

Contact:			
Company:			
Address:			
City:	;	State:	Zip:
Tel:		Fax:	
Cell:			
Email:			
Purchased From	:		
Direct D	Distributor:		
Purchase Date:			
Serial No.			

Fax Warranty Registration form to 740.962.2037 or submit online at www.ezgmfg.com by clicking on "Products" then "Warranty Cards".

PLEASE COMPLETE THIS WARRANTY CARD, AND RETURN VIA MAIL, FAX, OR E-MAIL, WITHIN 30 DAYS OF PURCHASE TO VALIDATE YOUR MANUFACTURER'S WARRANTY FOR ALL EZG MANUFACTURING PRODUCTS.

WARRANTY PROVISIONS OF THIS MACHINE ARE HANDLED DIRECTLY THROUGH THE MANUFACTURER.

EZG MANUFACTURING * 1833 North Riverview Road, Malta, OH 43758 PHONE 1-800-417-9272 * Email: warranty@ezgmfg.com * FAX 740-962-2037

EZ SURVEY

Please take a minute to fill out the survey below so that we can better serve our customers.

1. Where did you first hear about EZG Manufacturing? (check one)

Masonry Magazine Website Newsletter

Masonry Construction Referral

Other:

2. What influenced you to buy?

Quality Price Easy to use Other

- 3. Who is your sales representative?
- 4. Are you satisfied with the customer service you received?

Yes No

Explain:

- 5. What other EZG Manufacturing products do you own?
- 6. Would you like to be featured in our newsletter?

Yes No

If yes, where can we reach you and what is the best time?

Comments: