

MMH12 12ft³ (0.34 m³) Mobile 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



DANGER

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

Locking levers on the skid steer must be properly down and locked to ensure Mobile Mud Hog® does not fall.



WARNING

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

Read and understand entire manual before operating the Mobile 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 Mobile Mud Hog® is thoroughly familiar with its operation. Keep all unauthorized and untrained personnel, especially children away from Mobile 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 Mobile Mud Hog® while it is running. Before working on or cleaning the Mobile Mud Hog®, shut off skid steer and disconnect hydraulic supply hoses.

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

This Mobile Mud Hog® has been designed and built as a material mixing system, 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	
MMH12	878 lbs. (398.3 kg)	2678 lbs. (1214.7 kg)	

Do not exceed Maximum Gross Weight

Never stand under an elevated Mobile Mud Hog®.

Stay clear of moving parts while machine is in operation.

SAFETY PRECAUTIONS



WARNINGS (continued)

Never attempt to ride the Mobile Mud Hog®.

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

Do not operate near combustible materials.

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 Mobile Mud Hog®.

Do not use the Mobile 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.

Use proper attachment plate to match skid steer.

Only lift from attachment plate or lifting channels.

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.

Clean gate thoroughly for best performance.

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.

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. Set Mobile Mud Hog® securely on level and even ground.
- 2. Attach the Mobile Mud Hog® to your skid steer. Consult skid steer owner's manual for proper hookup.
- 3. Connect hydraulic hoses from Mobile Mud Hog® to skid steer.
- 4. Cycle all hydraulic motions to verify the Mobile Mud Hog® is operating correctly and that hoses are the proper length.



WARNING

Binding hoses may impede operation of Mobile Mud Hog® and cause hoses to rupture and release hot hydraulic fluid. Death or serious injury can result.

5. Fill with material, add water and mix to desired consistency.



WARNING

Do not leave operators seat with the Mobile Mud Hog® running. Death or serious injury can result.

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

6. Transport mix to desired location, Reverse paddle rotation to open gate and dispense mixture.

NOTE: If your model is not equipped with a hydraulic gate, manually open the gate using handle.



WARNING

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

OBTAINING SPARE PARTS

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

- 1. Record the information from the serial number tag located on the frame near the attachment plate.
- 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.

DAILY MAINTENANCE



WARNING

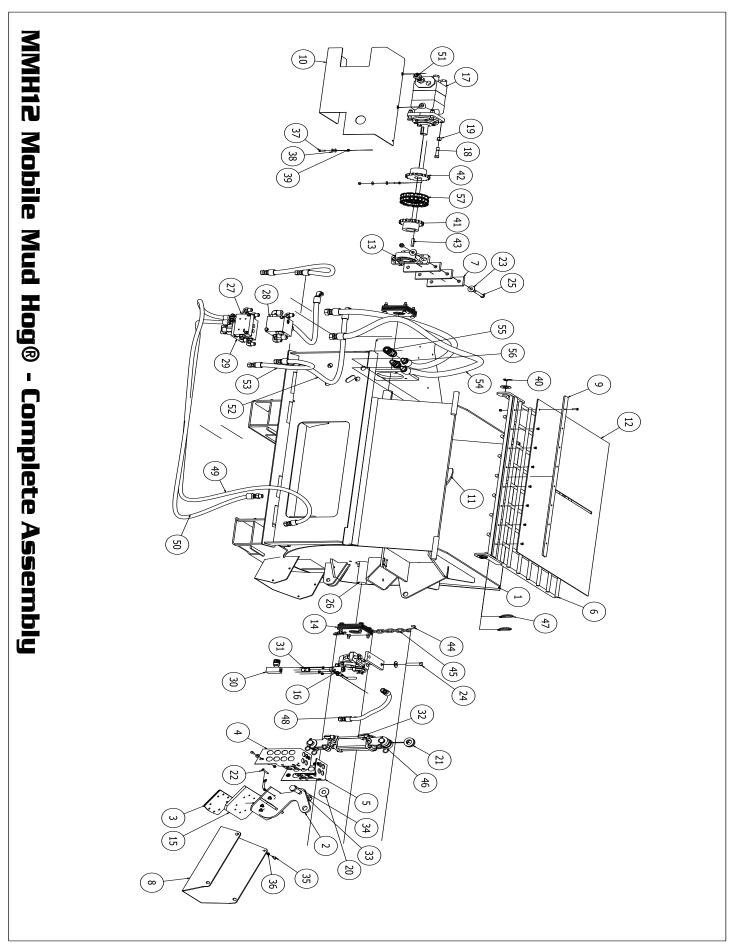
Before performing any described maintenance items, make sure equipment is turned off and hydraulic supply hoses are disconnected. Death or serious injury can result.

- Check and grease all grease fittings.
 (Grease fitting location can be found on the Grease Fitting Location drawing in this manual)
- 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 material to form on the blades and seals.
- 3. Check all hydraulic hoses and equipment for leaks. Fix any leaks before operating the Mobile Mud Hog®.
- 4. Check all welds and bolts. If a cracked weld is found, do not operate the Mobile Mud Hog® until repaired by qualified personnel. Tighten any loose bolts.
- 5. Check Paddle Shaft Seal for excessive wear. If any mortar or concrete is leaking past the seal, change the seals immediately.
- 6. Check paddle rubbers for wear. Adjust or replace as needed.
- 7. Store properly in a clean dry location.
- 8. 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.

CLEANUP

- 1. Turn off engine and disconnect hydraulic supply hoses.
- 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.
- 5. Remove gate and thoroughly clean weekly.

COMPLETE ASSEMBLY

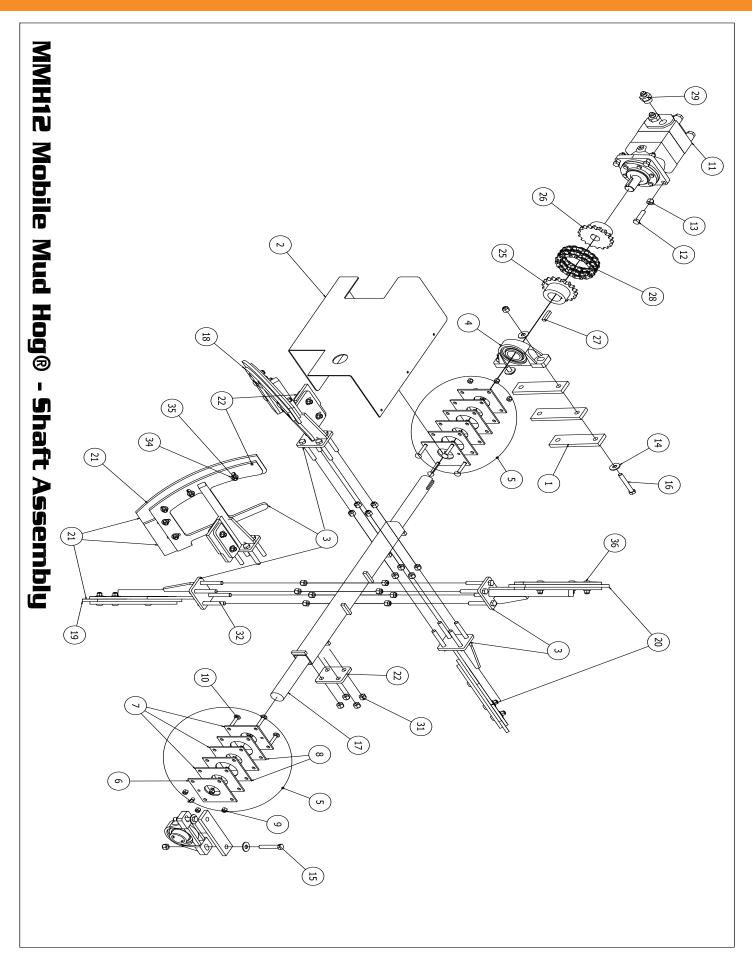


COMPLETE PARTS LIST

MMH12 COMPLETE PARTS LIST					
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	MMH12-A-22	MMH12-Flap Gate Frame Assembly		
2		MMH12-A-23	MMH12/MMH20 - Flap Gate Welded Assembly		
3		MMH12-A-24	MMH12/MMH20-Gate Inner Plate Welded Assy		
4		MMH12-A-25	MMH12/MMH20-Flap Gate Guard Assembly L		
5		MMH12-A-26	MMH12/MMH20-Flap Gate Guard Assembly R		
6		MMH12-A-2	MMH12-Grating		
7		MH-62	MH9/12/20 Shaft Bearing Shim		
8		MMH12-15	MMH12/20-16" Exten. For Discharge Chute		
9	1	MMH12-21-P	MMH12 - Vinyl Cover Mount Plate Painted		
10	1	MMH12-31	MMH12 Hydraulic Motor Guard		
11		MMH12-A-10	MMH12 - Paddle Kit(Everything but shaft)		
12		MMH12-A-3	MMH12 - Vinyl Grating Cover		
13		15-119	1 3/4" Pillow Block Bearing		
14		MH-A-38	Mud Hog & EZG12 Paddle Shaft Seal Kit		
15		MMH12-A-35	MMH12/20-Flap Gate Seal Kit (With Bolts)		
16		02-614	MMH 3/8" Female High Pressure Ball Valve		
17		02-4006	RMH12 / MMH12&20 Hydraulic Motor BMT-800		
18		09-365	1/2"-13 x 2" GR8 Bolt		
19		09-208	1/2-13 Nylon Nut 3/4 GR8 Flat Washer		
20		09-128 09-118	1" SAE Flat Washer		
22		09-3040	1/4-20 x 1 1/2 GR5 Carraige Bolt		
23		09-107	1/2" Flat Washer		
24		09-321	1/2-13 x 3" GR5 Bolt		
25		09-318	1/2-13 x 3 1/2" GR5 Bolt		
26		MH12-A-3	MH12/MH10 Paddle Shaft Assembly		
27		02-655	MMH - Port Adapter Manifold		
28		02-643	MMH Priority Flow Valve w/ Fittings		
29		02-610	Grout Hog Sequence Valve Assembly		
30		02-613	MMH Flow Control Valve		
31		02-236	3/8" Male Pipe to Male Pipe Hex Nipple		
32		02-250	1/2" JICM x 3/8" NPTM 90° Adapter		
33		09-236	3/4-10 GR8 Nylon Nut		
34		09-333	3/4-10 x 2 1/2" GR8 Bolts		
35		09-342 09-202	5/16-18 x 1" GR5 Bolt 5/16"-18 Nylon Nut		
37		09-202	1/4-20 x 1" GR5 All Thread Bolt		
38		09-104	1/4" Flat Washer		
39		09-200	1/4"-20 Nylon Nut		
40		09-411	3/16" x 2" Cotter Pin		
41		15-106	1 ³ / ₄ "#60 Shaft Half Coupler w/3/8"Key Slo		
42	1	15-105	1 1/4"Motor Half Coupler w/8mm Key Slot		
43		15-104	3/8 x 1 3/4 Machined Key (MH Shaft Key)		
44		09-807	3/16" S-Hook		
45		20-111	3/16" Plated Proof Coil Chain		
46		1 02-708 Hydraulic Cylinder 2"Bore x 4"Stroke(FH)			
47		03-105	8" Wire Ties		
48		MMH12-A-29	MMH12 - Hyd. Hose Assy.(BVtoCyl.) Retro		
49 50		MMH12-A-31 MMH12-A-5	MMH12 - Hyd. Hose Assembly (SV to Cyl.) MMH12 Hyd. Hose Assembly (SV to FCV)		
51		02-280	1/2" JICM to 3/4" ORBM Straight Adapter		
52		MMH12-A-8	MMH12 - Hyd. Hose Assembly (V to M)		
53		MMH12-A-9	MMH12 - Hyd. Hose Assembly (PFV to SV)		
54	2	MMH-A-1	MMH Hose Assembly #1 (Supply)		
55	1	02-221	1/2" Female Disconnect		
56		02-222	1/2" Male Disconnect		
57	1	15-107	#60 Roller Chain (MH Coupling)		

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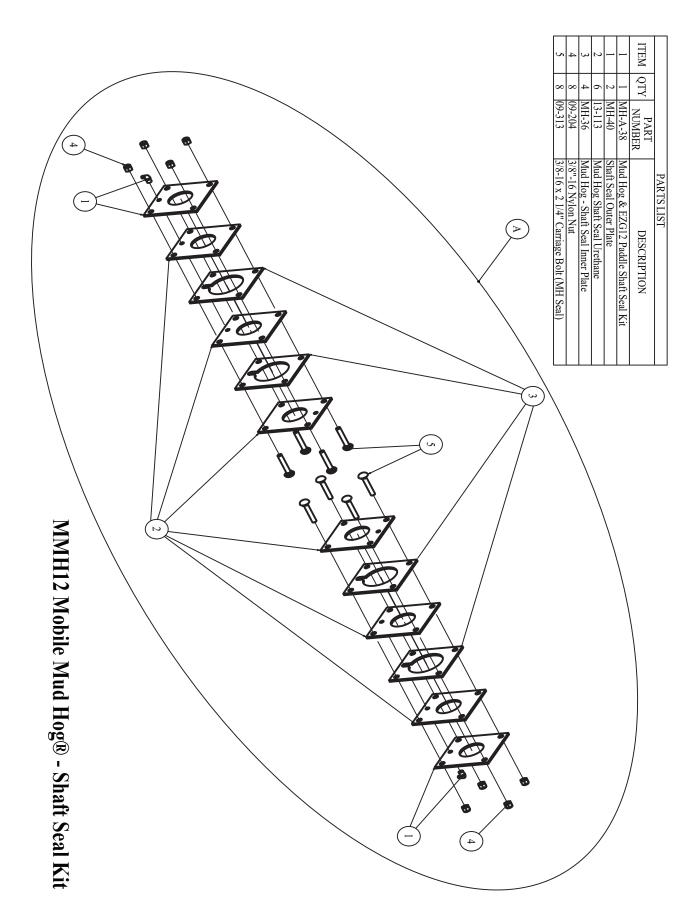
SHAFT ASSEMBLY



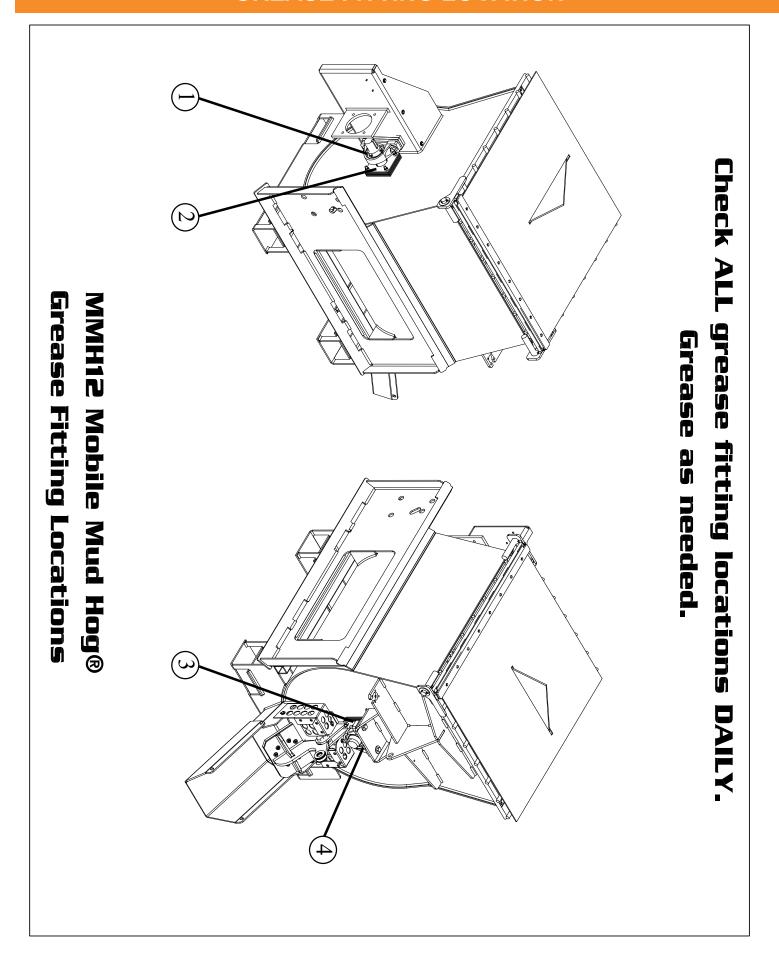
SHAFT PARTS LIST

		MMH	12 SHAFT ASSEMBLY PARTS LIST		
ITEM	OTY	PART NUMBER	DESCRIPTION		
1	_		MH9/12/20 Shaft Bearing Shim		
2			MMH12 Hydraulic Motor Guard		
3		MMH12-A-10	MMH12 - Paddle Kit(Everything but shaft)		
4		15-119	1 3/4" Pillow Block Bearing		
5			Mud Hog & EZG12 Paddle Shaft Seal Kit		
6	2	MH-40	Shaft Seal Outer Plate		
7	6	13-113	Mud Hog Shaft Seal Urethane		
8	4	MH-36	Mud Hog - Shaft Seal Inner Plate		
9		09-204	3/8"-16 Nylon Nut		
10		09-313	3/8-16 x 2 1/4" Carriage Bolt (MH Seal)		
11			RMH12 / MMH12&20 Hydraulic Motor BMT-800		
12		09-365	1/2-13 x 2" GR8 Bolt		
13		09-208	1/2-13 Nylon Nut		
14		09-107	1/2" Flat Washer		
15		09-321	1/2-13 x 3" GR5 Bolt		
16		09-318	1/2-13 x 3 1/2" GR5 Bolt		
17			MH12/MH10 Paddle Shaft Assembly		
18			MMH12 - Drive End Outer Paddle (Kit)		
19			MMH12 - Drive End Center Paddle (Kit)		
20			MMH12 - Bearing End Center Paddle (Kit)		
21			MMH12 - Bearing End Outer Paddle (Kit)		
22	_	MH-22-P	Paddle Mounting Plate - Painted		
23			MMH12 - Paddle Rubber Kit (With Bolts)		
24		MMH12-A-17	MMH12 - Paddle Cover Kit (no Bolts)		
25		15-106	1 ³ / ₄ "#60 Shaft Half Coupler w/3/8"Key Slo		
26		15-105	1 1/4"Motor Half Coupler w/8mm Key Slot		
27		15-104	3/8 x 1 3/4 Machined Key (MH Shaft Key)		
28	1		#60 Roller Chain (MH Coupling)		
29		02-280	1/2" JICM to 3/4" ORBM Straight Adapter		
2.1		MH-A-33	MH/MMH - Paddle Bolt Kit		
31		09-208	1/2-13 Nylon Nut		
32		09-318	1/2-13 x 3 1/2" GR5 Bolt		
2.4	_	MH-A-40	Mud Hog - Paddle Rubber Bolt Kit		
34		09-105	5/16" Flat Washer		
35		09-204	3/8"-16 Nylon Nut		
36	28	09-360	3/8-16 x 1 3/4" Carriage Bolt		

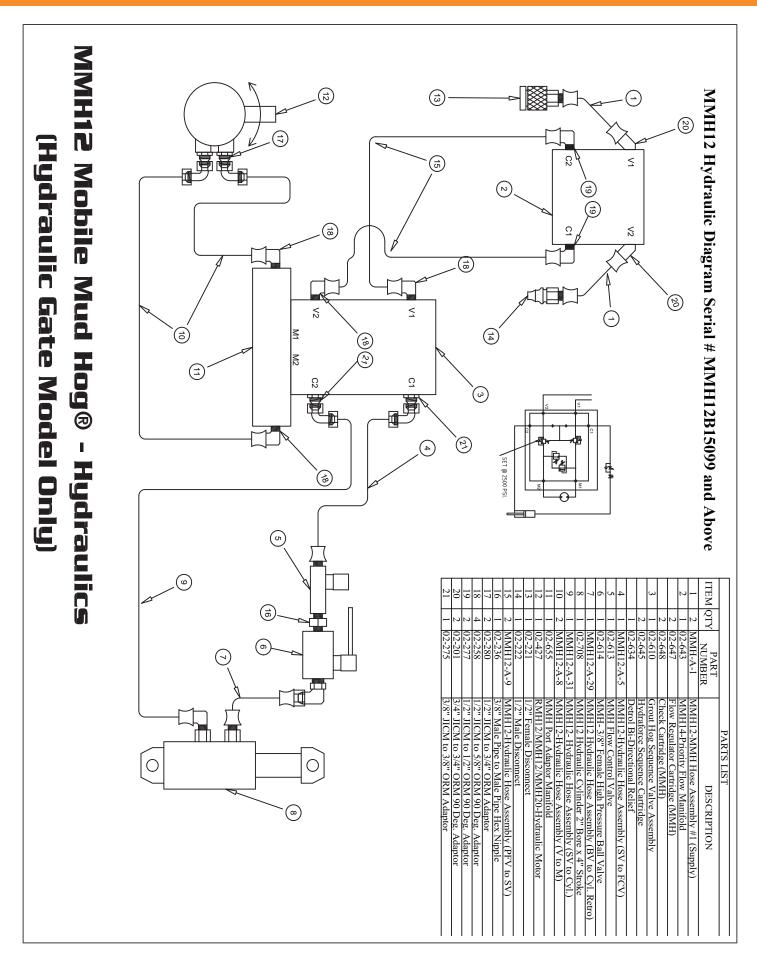
SHAFT SEAL KIT



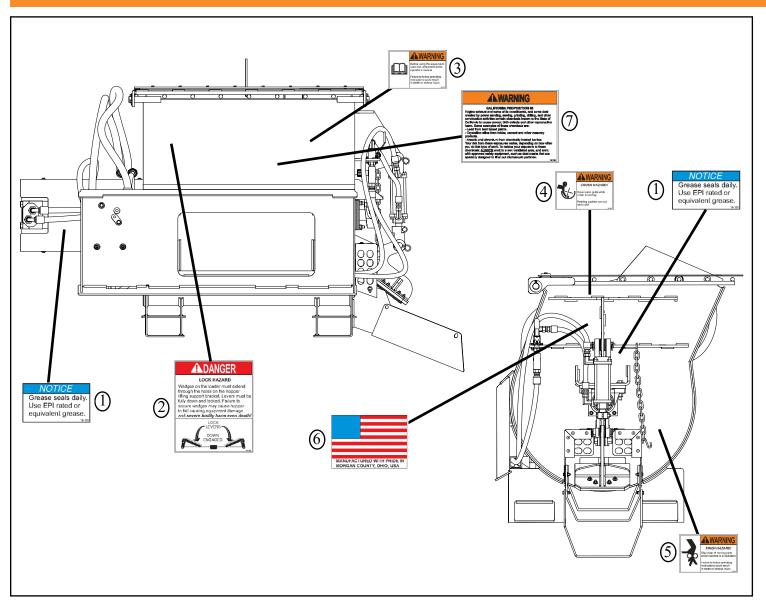
GREASE FITTING LOCATION



HYDRAULIC ASSEMBLY (HYDRAULIC GATE)



WARNING LABELS AND LOCATIONS



ITEM	PART NUMBER	DESCRIPTION	QUANTITY
А	16-218	LABEL KIT	1
1		Grease Seals Daily Decal	2
2		Lock Levers Decal	1
2		Read Owners Manual Decal	1
4		Never Open Grate Decal 1	
5		Small Pinch Point Decal	1
6		U.S. Flag Decal	1
7		Proposition 65 Decal	1

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 Fro	om:		
Direct	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: