



Before using this Mud Hog®,  
study and understand entire  
Owner's Manual.

Serial Number \_\_\_\_\_

# **MH20 20ft<sup>3</sup>(0.56m<sup>3</sup>) Mud Hog® Mixing Station Owner's Manual**



**Mud Hog®**  
**EZ Grout Corporation**  
**1-800-417-9272**

**EZ Grout Corporation**  
**405 Watertown Road**  
**Waterford, Ohio 45786**  
**(740) 749-3512 or 1-800-417-9272**  
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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 EZ Grout product, you will not be disappointed. If you have previously owned an EZ Grout product you will find the same high quality and dependability that you have come to expect from EZ Grout.

## About this Manual

The purpose of this manual is to inform the owner, employer, and the operator's of the unit, 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 reflected 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.



**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 *could* 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 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.

Never stand under an elevated Mud Hog®.

<b>Model</b>	<b>Empty Weight</b>	<b>Max Gross Weight</b>
MH20	2295 lbs. (1040 kg)	5295 lbs. (2401 kg)
MHE20	2395 lbs. (1086 kg)	5395 lbs. (2447 kg)

### **Do not exceed Maximum Gross Weight**

Stay clear of moving parts while machine is in operation.

When towing, refer to vehicle manufactures specs to insure 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®.

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 extinguisher, first aid kit, and emergency personnel phone numbers in case of emergency.

# Safety Precautions

(Continued)



## **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 EZ Grout, as damage to equipment or injury to operator may occur.

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® Owners 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 setup on the job site. The MH20 Mud Hog® weighs 2295 lbs. (1040kg) empty and 5295lbs. (2401kg) 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”(2.54cm) 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 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 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 EZ Grout Corporation at 1-800-417-9272 with the information recorded.

## Clean Up

1. Turn off engine and disconnect spark plug wire. If electric powered, turn off local service disconnect and lock out.
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



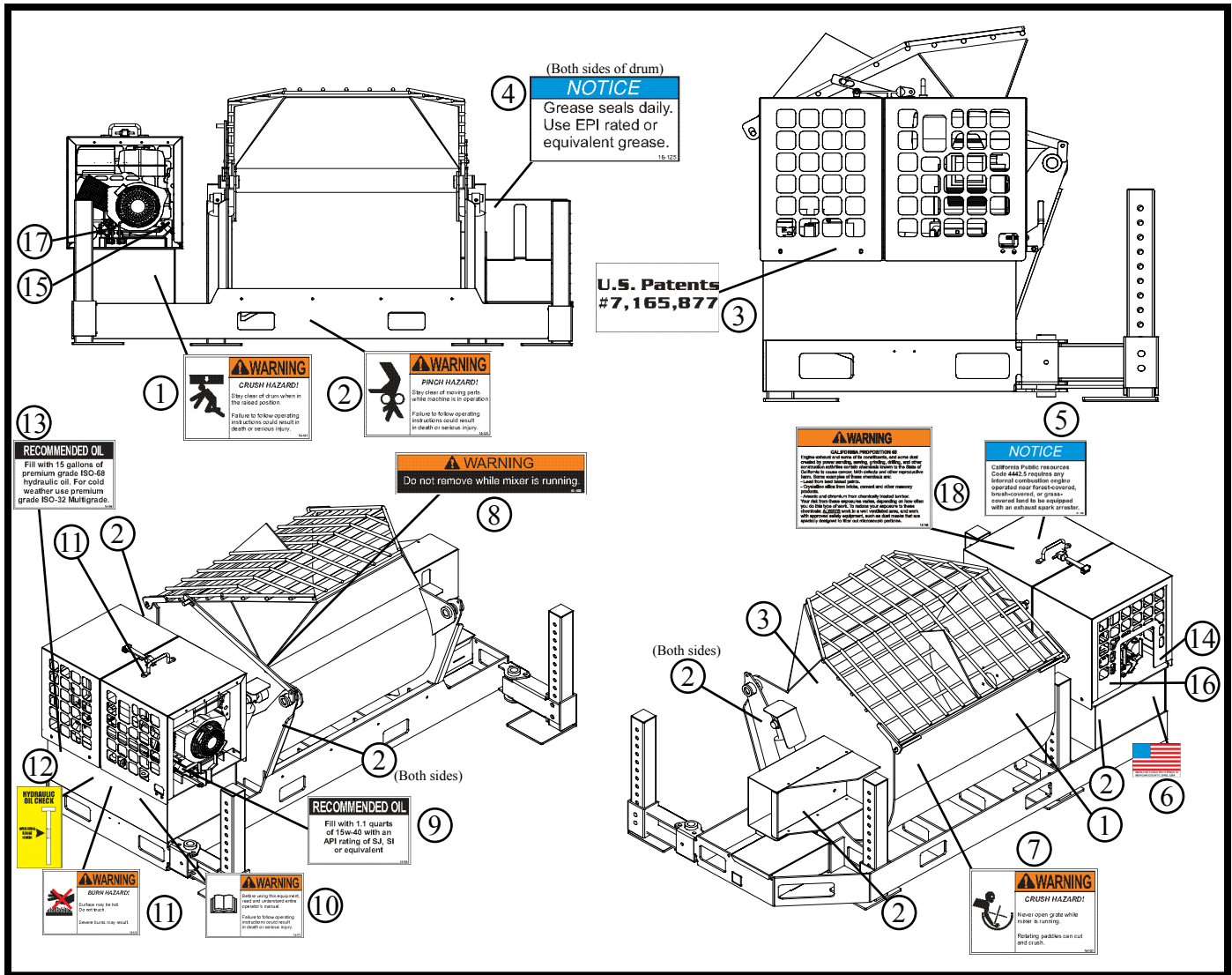
### WARNING

**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 this manual for grease fitting locations.*
4. Check hydraulic oil level. 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 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 the seals immediately.
9. Check paddle rubbers for wear. Adjust or replace as needed.

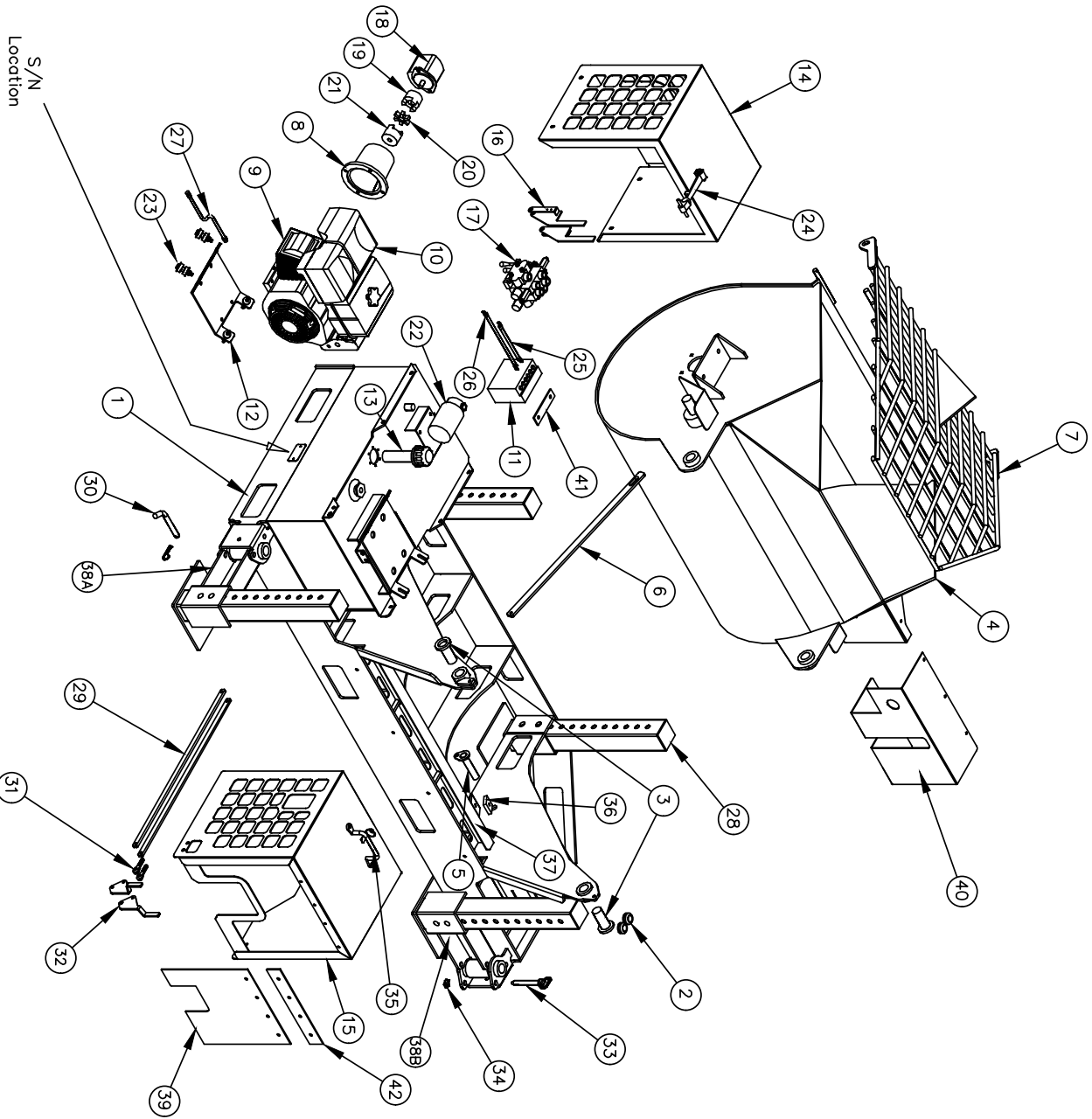


# Warning Labels and Locations



ITEM	PART NUMBER	DESCRIPTION	QTY
1	16-121	Stay Clear of Drum - Decal	2
2	16-131	Small Pinch Point - Decal	8
3	16-157	U.S. Patents - Decal	2
4	16-125	Grease Seals Daily - Decal	2
5	16-149	California Public Resources - Decal	1
6	16-106	U.S. Flag - Decal	1
7	16-159	Never Open Grate - Decal	1
8	16-165	Do Not Remove - Decal	1
9	16-156	Fill with 1.1 Quart - Decal	1
10	16-177	Read Owners Manual - Decal	1
11	16-112	Hot Surface - Decal	2
12	16-113	Check Hydraulic Oil Level - Decal	1
13	16-164	Fill with 25 Gallons - Decal	1
14	16-150	Push to Lower/Pull to Dump - Decal	1
15	16-161	Push for Forward/Pull Reverse - Decal	1
16	16-162	Push for Reverse/Pull Forward - Decal	1
17	16-163	Push to - Dump/Pull to Lower - Decal	1
18	16-193	Proposition 65 - Decal	1

# MH20 Mud Hog® - Frame Assembly

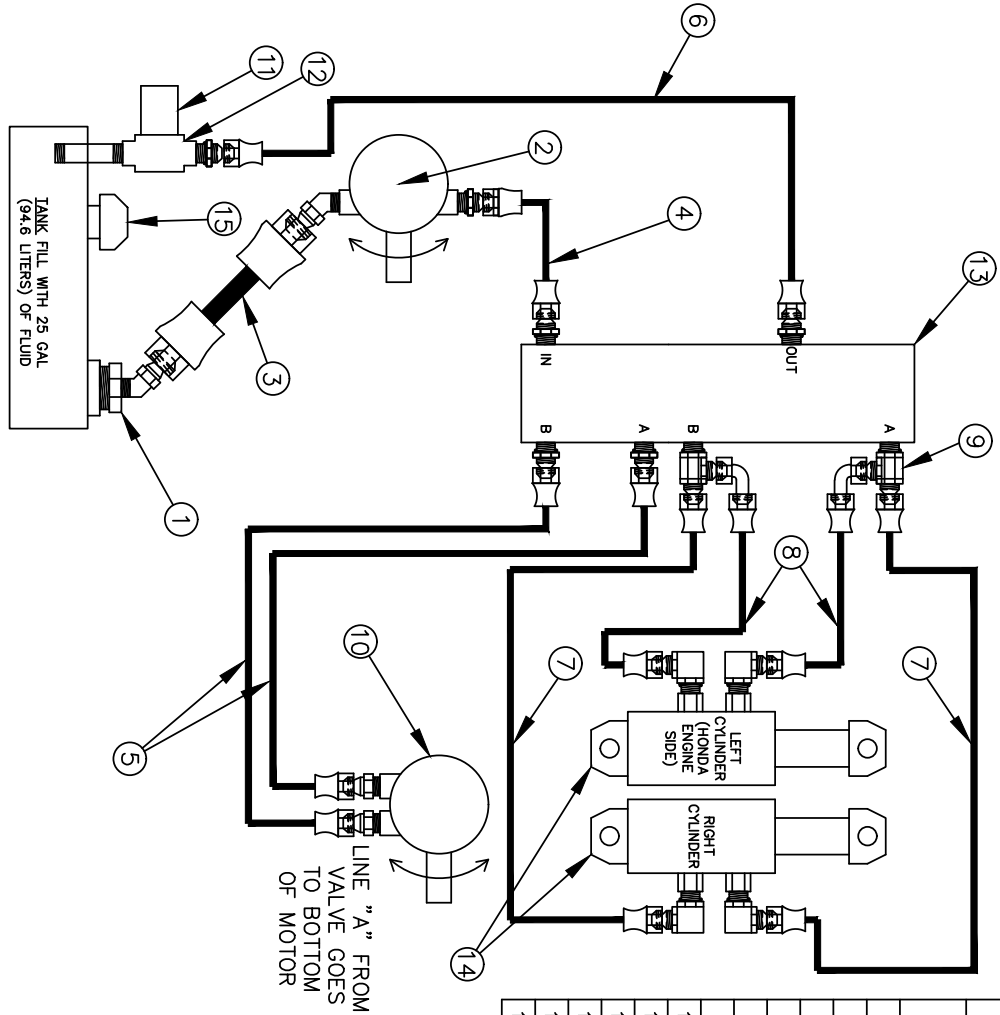


S/N  
Location

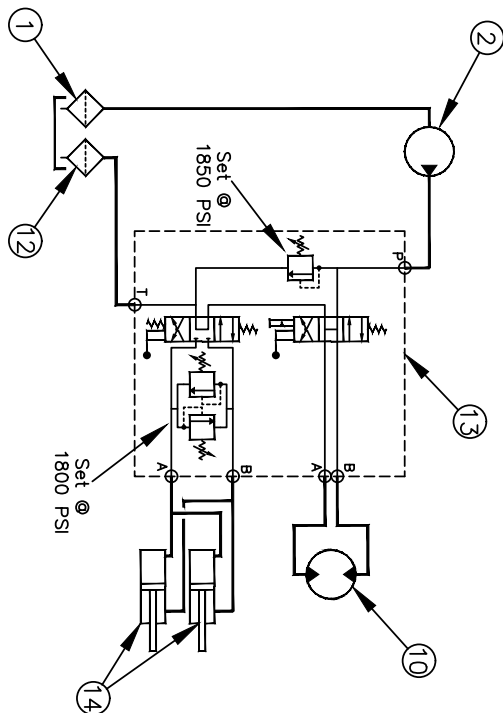
41	MH-61	1	Battery Hold Down
42	MH-188	1	Vinyl Mount Bar

ITEM	PART NUMBER	QTY	DESCRIPTION
1	MH-A-89	1	Frame
2	13-127	2	Hydraulic Hose Holder Grommets
3	MH-A-74	2	Trunion Pin (Each)
4	MH-A-22	1	Drum
5	MH-A-84	2	Lower Cylinder Pins
6	MH-86	1	Grate Opener
7	MH-A-12	1	Standard Grating
8	02-514	1	Pump Adaptor
9	14-103	1	13 HP Honda? Engine
	14-106	1	Kubota Diesel Engine (Optional)
	(See Page 7)	1	Electric Motor (Optional)
10	14-209	1	Exhaust Purifier (Optional)
11	03-177	1	Battery (Deko Trac 225)
12	MH12-8	1	Honda? Engine Isolation Plate
	MH12-64	1	Electric Motor Mounting Plate
13	02-318	1	Hydraulic Oil Fill Assy. w/ dipstick
14	MH-A-75	1	Engine Hood (Fixed)
15	MH-A-83	1	Engine Hood (Hinged)
16	MH-A-87	1	Control Valve Handle Kit
17	02-642	1	Control Valve - Sandwich Type
18	02-517	1	Hydraulic Pump (For Gas & 60HZ)
	02-515		Hydraulic Pump (For 50HZ Only)
19	15-101	1	Pump Half Coupler
20	15-118	1	Coupler Spider
21	15-102	1	Motor Half Coupler
22	02-316	1	Hydraulic Filter Element
23	02-803	4	Engine Isolation Mount
24	20-103	1	Hood Hold Down
25	MH-A-85	1	Negative Battery Cable
26	MH-A-86	1	Positive Battery Cable
27	20-120	1	Engine Drain Hose (Drainziti)
28	MH-A-19	1	MH20 Leg Kit (2 back, 1 Right Front, 1 Left Front Included)
29	MH-183	2	Valve Handle Linkage
30	09-425	4	Hitch Pin w/ Hair Pin
31	20-153	2	Clevis Rod Ends
32	MH-A-88	1	Aux. Valve Handle Kit
33	09-403	2	Hitch Pin
34	09-400	2	Safety Clip
35	20-100	1	Grab Handle
36	MH-539-1	2	Drum Rest 3/8" x 2
37	MH-178	1	Hydraulic Hose Cover
38A	MH-A-93	1	Outrigger Assy. (Honda Eng. Side)
38B	MH-A-94	1	Outrigger Assy. (Side Opposite Eng)
39	MH-184	1	Vinyl Engine Cover
40	MH-30	1	Hydraulic Motor Cover

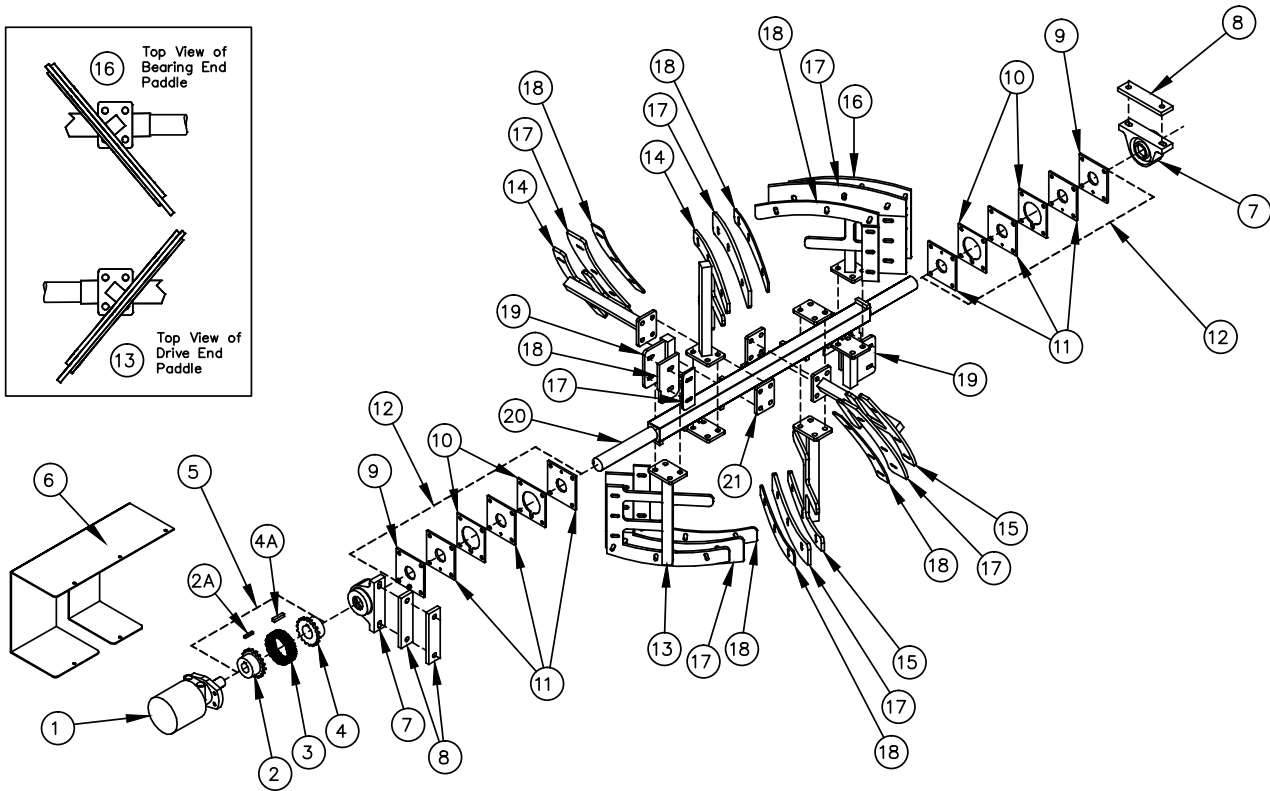
# MH20 Mud Hog® - Hydraulic System



ITEM	PART NUMBER	QTY	DESCRIPTION
1	02-302	1	Hydraulic Suction Strainer
2	02-517	1	Hydraulic Pump (For Gas and 60HZ Electric motors)
	02-515	1	Hydraulic Pump (For 50HZ Electric motors only)
3	MH-A-77	1	MH20 Hose Assembly, T to P, 14" OAL, JICF/JICF
	MH-A-91	1	MH20 Hose Assembly, T to P, 21" OAL, JICF/JICF (Elec. Only)
4	MH-A-78	1	MH20 Hose Assembly, P to V, 28" OAL, JICF/JICF
	MH-A-79	2	MH20 Hose Assembly, V to M, 143" OAL, JICF/JICF
	MH-A-90	1	MH20 Hose Assembly, V to T, 28" OAL, JICF/JICF
	MH-A-82	2	MH20 Hose Assembly, V to RC, 113" OAL, JICF/JICF
	MH-A-81	2	MH20 Hose Assembly, V to LC, 51" OAL, JICF/JICF90°
9	02-205	2	O-ring to JIC Run Tee
10	02-425	1	Hydraulic Motor
11	02-316	1	Hydraulic Filter Element
12	02-315	1	Hydraulic Filter Body
13	02-642	1	Control Valve - Sandwich Type
14	02-701	2	Hydraulic Cylinder (16" Stroke)
15	02-318	1	Hydraulic Breather



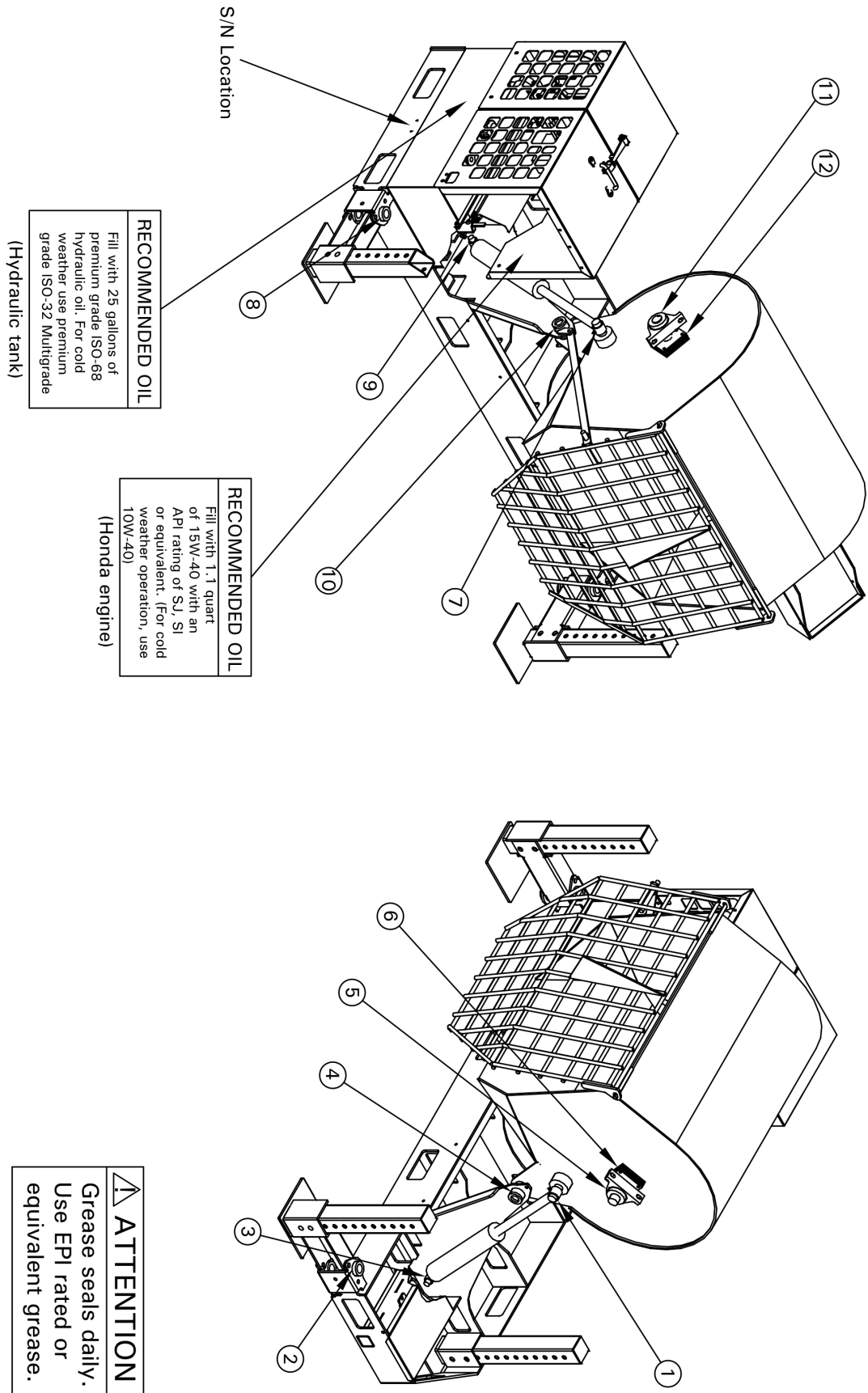
# MH20 Mud Hog® - Shaft Assembly



ITEM	PART NUMBER	QTY	DESCRIPTION	ITEM	PART NUMBER	QTY	DESCRIPTION
1	02-425	1	Hydraulic Motor	18	MH-A-67	1	Paddle Cover Kit (No Rubbers, Bolts)
2	15-105	1	#60 Motor Half Coupler	19	MH-A-30	2	Cleaner Paddle
2A	MH-538	1	Motor Coupler Key	20	MH-A-59	1	MH20 Paddle Shaft
3	15-107	1	#60 Roller Chain	21	MH-22	4	Paddle Mounts
4	15-106	1	#60 Shaft Half Coupler	22	MH-A-37	1	Includes. (1)MH-A-26, (2)MH-A-27,(2)MH-A-28 (1)MH-A-29,(2)MH-A-30,(1)MH-A-33, Bolt Kit, (1)MH-A-63, (1)MH-A-67)
4A	MH-537	1	Shaft Coupler Key				
5	MH-A-60	1	Shaft Coupler Kit (Includes (1)15-105, (1)15-106, (1)15-107, (1)MH-537, (1)MH-538)				
6	MH-30	1	MH20 Chain Coupler Guard				
7	15-119	2	Roller Bearing				
8	MH-62	3	Shaft Bearing Shim				
9	MH-40	2	Shaft Seal Outer Plate				
* 10	MH-36	4	Shaft Seal Inner Plate				
11	13-113	6	Shaft Seal Rubber				
12	MH-A-38	1	Shaft Seal Kit (Includes (6)13-113, (4)MH-36, (2)MH-40, (8)09-313)				
* -	09-313	8	Shaft Seal Bolts				
13	MH-A-26	1	Drive End Outer Paddle				
14	MH-A-27	2	Drive End Center Paddle				
15	MH-A-28	2	Bearing End Center Paddle				
16	MH-A-29	1	Bearing End Outer Paddle				
17	MH-A-63	1	Paddle Rubber Kit w/ Bolts (No Covers)				

# MH20 Mud Hog® - Grease Fitting Location

Check ALL grease fitting locations DAILY. Grease as needed.









# 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 thereof 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

EZ Grout Corporation 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.

Fax Warranty Registration form to 740-962-2037  
or submit on-line at [www.ezgrout.com](http://www.ezgrout.com)  
by clicking on "Products" then "Warranty Cards".

## Warranty Registration

Contact: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ Email: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Purchased Date: \_\_\_\_\_ Serial No.: \_\_\_\_\_

Please complete this warranty card, and return via mail, fax or email, within 30 days of purchase to validate your manufacturer's warranty for all EZ Grout products.

Warranty provisions of this machine are handled directly through the manufacturer.

EZ Grout Corporation \* 405 Watertown Road, Waterford, OH 45786 \*

Fax: 740-962-2037 \* Email: [warranty@ezgrout.com](mailto:warranty@ezgrout.com)

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

## EZ Survey

1. Where did you first hear about EZ Grout? (Check One)

- Masonry Magazine     Website     Newsletter     Referral     Masonry Construction  
 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 EZ Grout 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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_