



Before using this **RMH36 MIXER**,
study and understand entire
Owner's Manual

Serial Number _____

RMH36 MIXER®

36ft³ (1m³)



Mixing Station

Owner's Manual



RMH36 MIXER®
EZG Manufacturing
1-800-417-9272

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Table of Contents

Introduction	2
About this Manual	2
General Information	2
Safety Information	2
Safety Precautions	3
California Proposition 65 Warning	4
Setup Instructions	5
Operating Instructions	5
Obtaining Spare Parts	6
Daily Maintenance	6
Cleanup	6
Service Records	7
Warning Labels and Locations	8
Frame Assembly	9
Hydraulic Service History	10
Shaft Assembly	11
Grease Fitting Locations	12
Notes	13
Warranty	14
Warranty Registration	15

Introduction

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

About this Manual

The purpose of this manual is to inform the owner, employer, and the operators of the unit, how to safely operate this piece of equipment, and to make them aware of any hazards. It also contains important information regarding assembly, setup, operation, and maintenance. It is the owner/employer's responsibility to make sure that anyone who operates this machine understands all of the 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 then please 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 meanings and 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.



WARNING

This signal word is used to identify a hazard that if not avoided could result in death or serious injury.



CAUTION

This signal word is used to identify a hazard that if not avoided could result in death or serious injury.



DANGER

This signal word is used to identify a hazard that if not avoided could result in minor or moderate injury.

NOTICE

This signal word is used to identify a hazard that 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

NOTICE

In this manual the **RMH36 MIXER®** is commonly referred to as *unit, mixer, or mixing station*.



WARNING

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

Read and understand the entire manual before operating any EZG Manufacturing product.

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 mixer is thoroughly familiar with its operation. Keep all unauthorized and untrained personnel, especially children, away from the unit.

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

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

Never perform any work on the mixer while it is running. Before working on or cleaning the unit: shut off the motor and service disconnect box.

Never operate the unit under the influence of alcohol, drugs, or medications

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

Consult the forklift manufacturer's specifications to insure load capacity is not exceeded.

Model	Empty Weight	Max Gross Weight
RHM36	5860 lbs. (2658 kg)	11,260 lbs. (5107.5 kg)

Do not exceed Maximum Gross Weight

Never stand under an elevated unit.

Stay clear of moving parts while the unit is in operation.

Never attempt to ride the unit.

Operate only in properly vented environments.



Safety Precautions (continued)

Avoid breathing the dust that is produced while using the unit. Dust may contain crystalline silica and may cause serious health problems.

Always know the locations of the 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: safety glasses, hearing protection, hard hats, and ventilation mask when operating the mixing station.

Do not use the unit as a lifting device or with accessories or attachments not recommended by EZG Manufacturing. 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 other hazardous waste must be taken to an authorized disposal or recycling center.

California – Proposition 65 Warning

Engine exhaust, 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 mask that are specially designed to filter out microscopic particles.



Setup Instructions

Before operating the mixing station it should be properly setup on the jobsite. The unit may be lifted by using a forklift. The **RMH36 MIXER®** weighs 5860 lbs. (2658 kg) empty and 11,260 lbs. (5107.5 kg) full. Check the forklift's ratings before attempting to move the mixing station.

1. Raise the mixing station with a forklift.
2. Fully extend the outriggers by removing the hitch pins. Extend the outriggers and reinsert the hitch pins. Each outrigger has a 3/4" (19 mm) hitch-pin and a 1/4" (6 mm) hair-pin as the keeper. Make sure the hitch-pin is locked in position with the hair-pin.



WARNING

Do not operate the mixing station without having the outriggers fully extended to provide a stable base. DEATH or SERIOUS INJURY can result.

3. While raised, set the mixing station to the desired height by adjusting the mixer feet. Each mixer foot allows for 1" (25.4 mm) adjustments and has a 5/8" (15.8 mm) hitch-pin with a hair-pin keeper. Make sure each pin is locked into position. In the full down position the unit can dump into most mortar pans. Level the mixing station as close as possible.
4. Verify that all mixer feet are touching the ground and the unit is level and cannot rock in any direction. If one of the mixer feet is not touching the ground and cannot be adjusted to do so then place a shim under that foot with a board to create a solid footing.



WARNING

If setting the unit in a permanent position then bolt the unit's feet to the floor to prevent tipping. DEATH or SERIOUS INJURY can result.

5. Perform the daily maintenance as described in the Daily Maintenance section in this manual.
6. Check all hydraulic operations using both levers on the hydraulic control valve 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. After following the Setup Instructions connect the power source and start the unit.
2. Fill with material and add water.
3. Mix to your desired consistency.
4. Dump the mixed materials into your preferred transport.

NOTICE

In the unlikely event the mixing paddles plug or jamb then momentarily reverse the paddle direction.



WARNING

NEVER put your hands inside the mixer drum while the equipment is running. DEATH or SERIOUS INJURY can result.



Obtaining Spare Parts

Spare parts for your mixing station can be obtained by the following procedure:

1. Record the information from the Serial Number Tag located on the rear of the frame near the hydraulic reservoir.
2. Using the Parts Reference Table in this manual record the part number.
3. Contact your local **RMH36 MIXER®** dealer, or EZG Manufacturing @ 1-888-344-7688 and provide the recorded information.

Daily Maintenance



WARNING

Before performing any described maintenance items make sure the unit is turned off and the power source is disconnected. DEATH or SERIOUS INJURY can result.

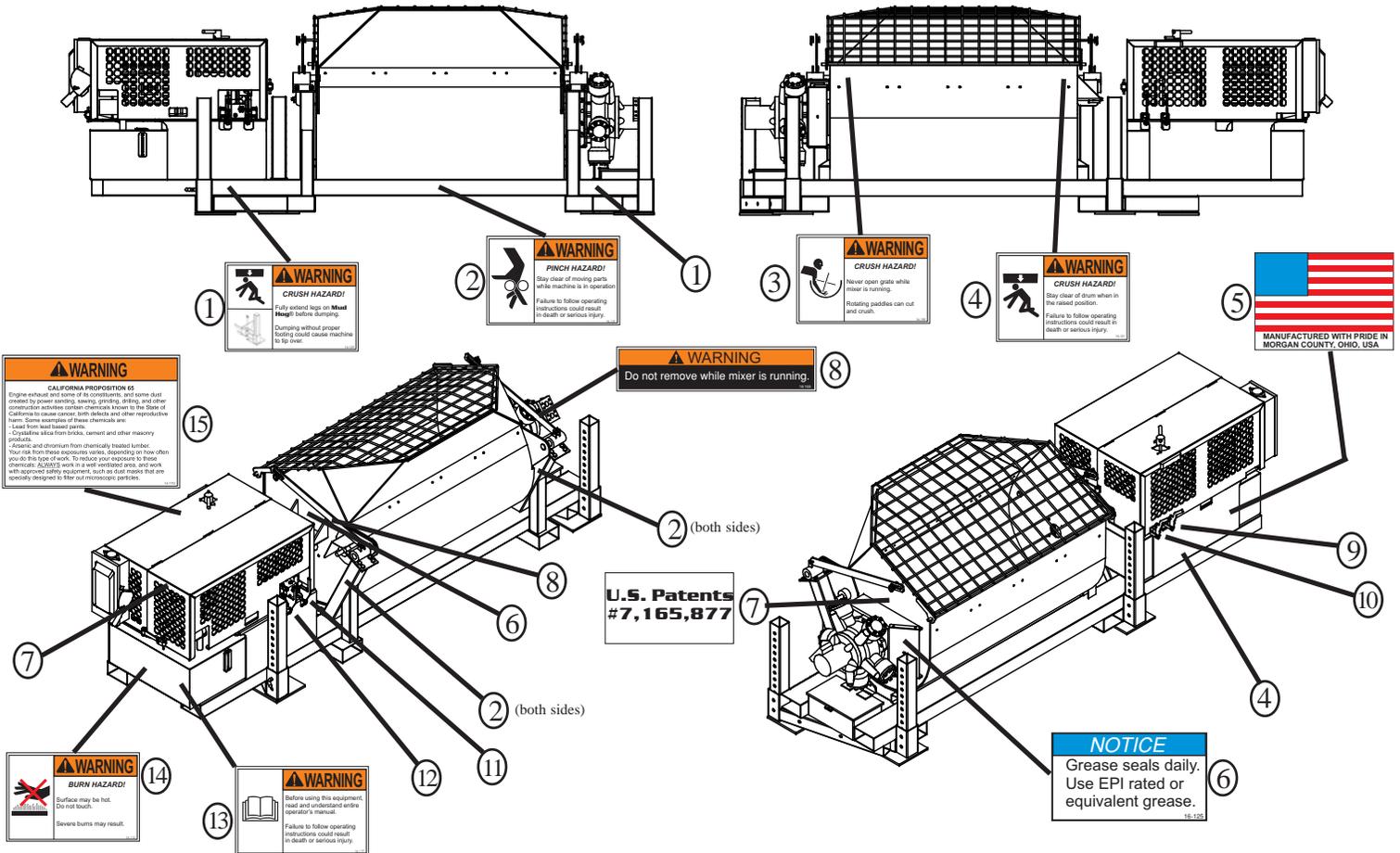
1. Check and grease all fittings. Grease fitting locations can be found on the Grease Fitting Location Drawing in this manual – see Table of Contents for its location.
2. Check the hydraulic oil level and add as needed. Change the hydraulic oil twice a year or if contaminated. Change the hydraulic oil filters monthly. Use only recommended premium grade ISO68 Heavy Duty Hydraulic Oil or equivalent premium grade oil. Do not use contaminated fluid. Premium Grade ISO32 Oil may be used in cooler climates.
3. For maximum performance thoroughly clean inside and out at midday, 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
4. Check all hydraulic hoses and equipment for leaks. Fix any leaks before operating the mixing station.
5. Check all welds and bolts. If a cracked weld is found do not operate the unit until a repair is made by qualified personnel. Tighten and loose bolts.
6. Check Paddle Shaft Seal for excessive wear. If any mortar or concrete is leaking past the seal then change the seals immediately.
7. Check Paddle Rubbers for wear. Adjust or replace as needed.

Cleanup

1. Turn off the Motor, disconnect the power source, and Lockout.
2. For maximum performance thoroughly clean inside and out at midday 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 the Mixing Drum. Spray and brush the Paddles until all excess materials are removed.
4. Grease the fittings and brush the face of the Drum Seals until clean.

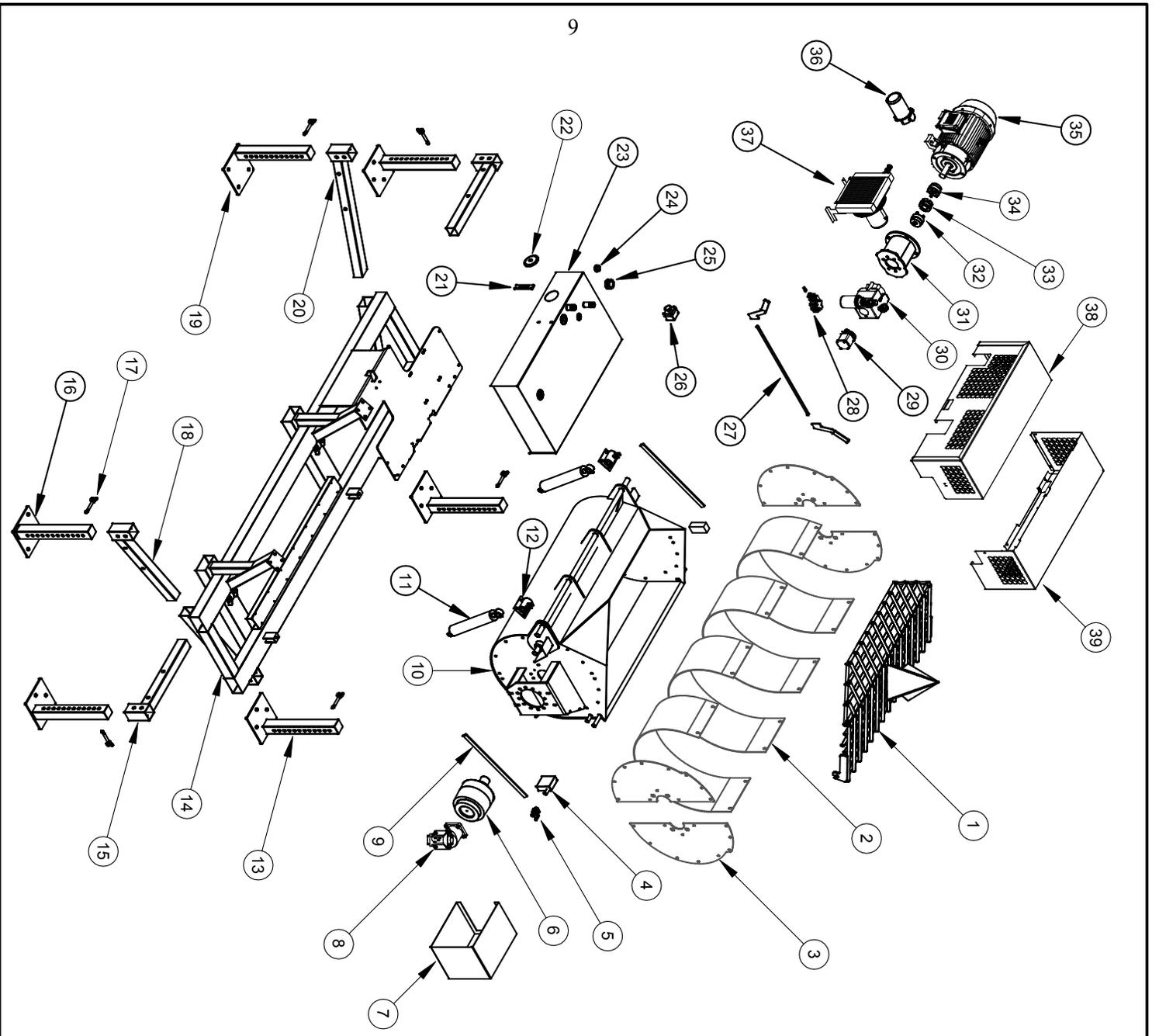


Warning Labels and Locations



Item	Part Number	QTY	Description	Item	Part Number	QTY	Description
1	16-129	2	Fully Extend Legs	9	16-161	1	Push for Forward / Pull for Reverse
2	16-131	5	Small Pinch Point	10	16-163	1	Push to Dump / Pull to Lower
3	16-159	1	Never Open Grate	11	16-150	1	Push to Lower / Pull to Dump
4	16-121	2	Stay Clear of Drum	12	16-162	1	Push for Reverse / Pull for Forward
5	16-106	1	US Flag	13	16-177	1	Read Owner's Manual
6	16-125	2	Grease Seals Daily	14	16-112	1	Hot Surface
7	16-157	2	US Patents	15	16-193	1	California's Proposition 65
8	16-165	2	Do Not Remove	16			



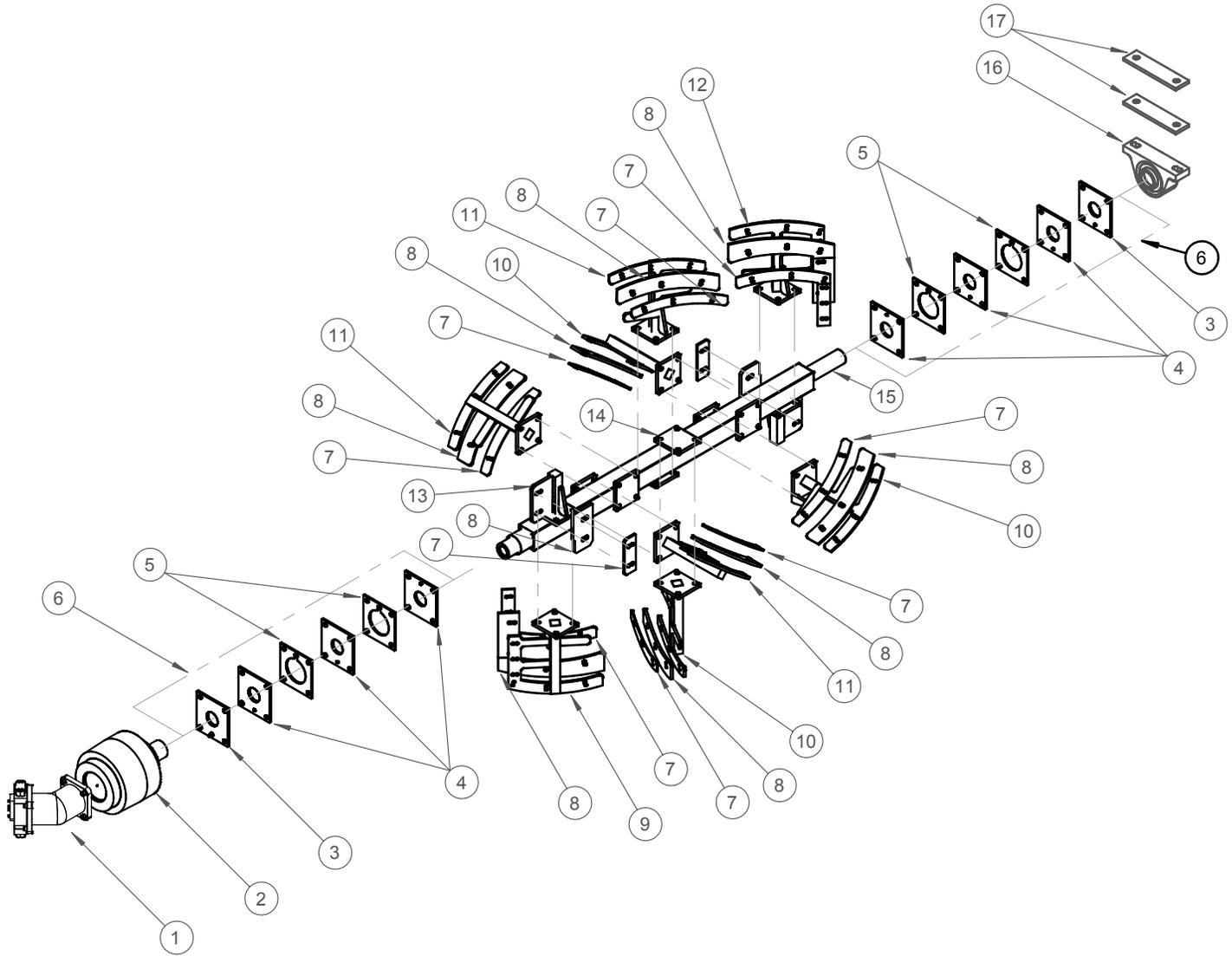


Frame Assembly

Item	Part Number	QTY	Description
1	RMH36-A-3	1	Standard Grating
2	RMH36-14	1	RMH36 Rolled Drum Liner
3	RMH36-15	1	End Liner Kit (2 Sides)
4	20-170	1	Water Meter
5	02-175	1	3/4" IP Ball Valve
6	02-436	1	Gear Box
7	RMH36-43	1	Hydraulic Motor Guard
8	02-442	1	Hydraulic Motor Head
9	MH-86	2	Grate Opener
10	RMH36-A-2	1	RMH36 Drum
11	02-701	2	Hydraulic Cylinder (16")
12	RMH36-A-8	1	Trunion Kit
13	MH-A-19	1	Leg Kit (centered post)
14	RMH36-A-1	1	RMH36 Frame
15	MH-A-21	1	Outrigger (end/side)
16	MH-A-19	1	Leg Kit (corner post, motor)
17	09-404	1	Hitch Pin w/ Hair Pin
18	MH-A-18	1	Outrigger (non motor side)
19	MH-A-19	1	Leg Kit (corner post, non m)
20	MH-A-17	1	Outrigger (motor side)
21	02-321	1	Hydraulic Oil Sight Glass
22	15-152	1	Hydraulic Tank Cleanout
23	RMH36-A-7	1	Hydraulic Fluid Tank
24	01-722	1	1" IP Cap
25	02-528	1	Hydraulic Breather
26	03-538	1	Emergency Stop Switch
27	MH-A-88	1	Valve Handle Kit
28	02-667	1	Hydraulic Control Valve
29	02-508	1	Gear Pump
30	02-440	1	Hydraulic Pump
31	15-153	1	Pump Adapter
32	15-154	1	Pump Half Coupling
33	15-122	1	Coupling Spider
34	15-151	1	Motor Half Coupling
35	03-720	1	Electric Motor (230V - 460V)
36	02-309	1	Hydraulic Filter Body
37	02-721	1	Hydraulic Heat Exchanger
38	RMH36-A-5	1	Engine Hood (hinged)
39	RMH36-A-4	1	Engine Hood (fixed)



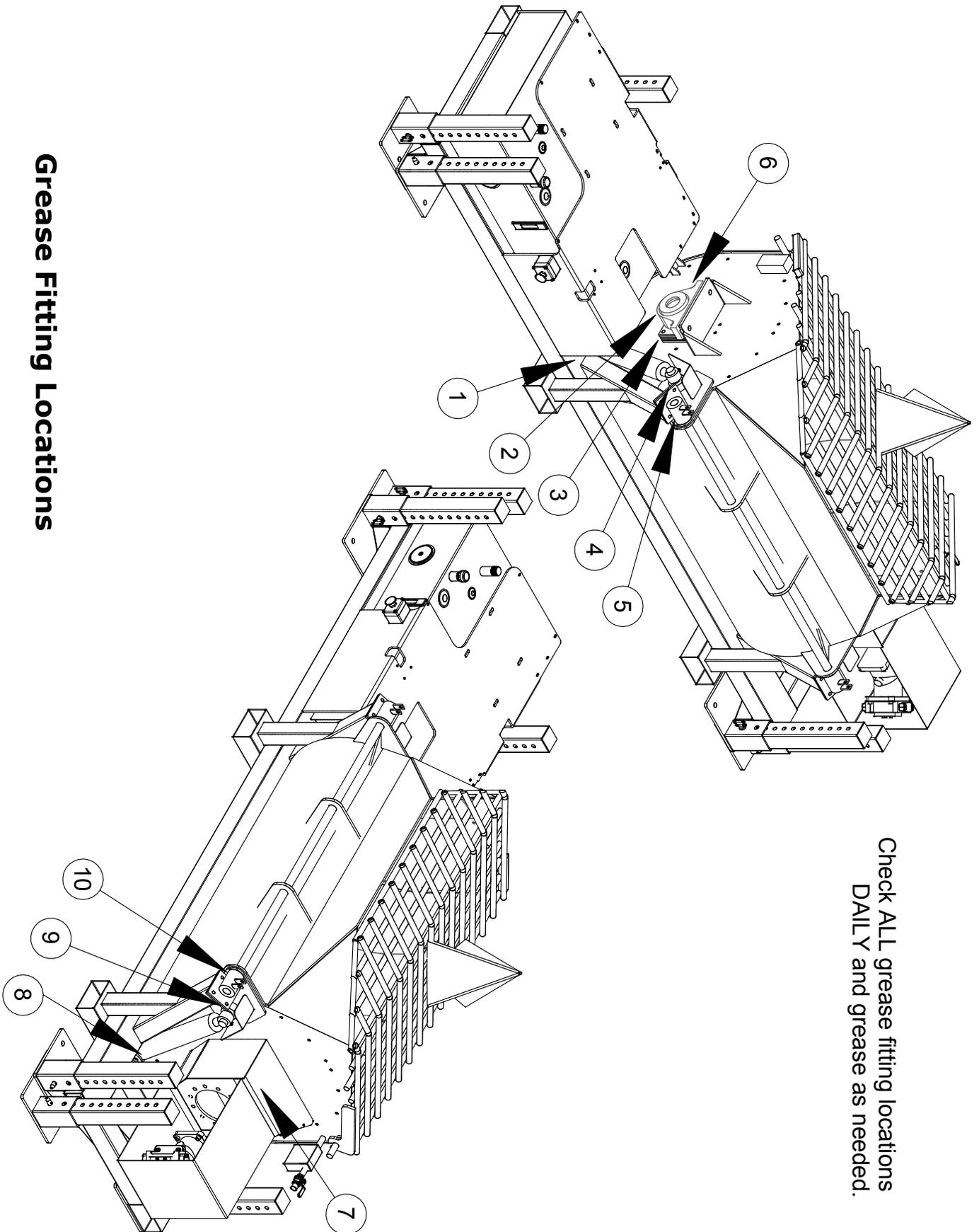
Shaft Assembly



Item	Part Number	QTY	Description	Item	Part Number	QTY	Description
1	02-442	1	Hydraulic Motor Head	13	RMH36-A-18	2	Cleaner Paddle
2	2-436	1	Hydraulic Motor	14	RMHC-1	8	Paddle Mounting Plate
3	RMH-18	1	Shaft Seal Outer Plate -Hydraulic Motor End	15	RMH36-A-9	1	RMH36 Paddle Shaft
4	RMH-19	3	Shaft Seal Rubber - Hydraulic Motor End	16	15-150	1	Paddle Shaft Bearing
5	RMH-16	2	Shaft Seal Inner Plate - Hydraulic Motor End	17	RMH36-44	2	Shaft Bearing Shim
6	RMH-A-2	1	Shaft Seal Kit	18	RMH36-A-22	1	Paddle Bolt Kit
7	RMH36-A-21	2	Paddle Cover Kit (No Rubbers or Bolts)	19	RMH36-A-6		Paddle Kit - Consist of all Paddles, Bolt Kit, and Cover Kit
8	RMH36-A-20	2	Paddle Rubber Kit w/ Bolts (No Covers)				
9	RMH36-A-14	1	Otter Paddle - Drive End	NOTES:			
10	RMH36-A-17	3	Center Paddle - Bearing End				
11	RMH36-A-15	3	Center Paddle - Drive End				
12	RMH36-A-16	1	Otter Paddle - Bearing End				



Grease Fitting Locations



Check ALL grease fitting locations
DAILY and 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



Fax Warranty Registration Form to 740-962-2037; or, submit online at www.ezgrout.com by clicking on "Products" then "Warranty Cards."

WARRANTY REGISTRATION

CONTACT: _____

COMPANY NAME: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE: _____ **FAX:** _____ **EMAIL:** _____

PURCHASED FROM: DIRECT DISTRIBUTOR _____

PURCHASED DATE: _____ **SERIAL NO.** _____

PLEASE COMPLETE THIS WARRANTY CARD AND RETURN IT VIA MAIL, FAX, OR EMAIL, WITHIN 30 DAYS OF THE PURCHASE TO VALIDATE YOUR MANUFACTURER'S WARRANTY FOR ALL EZ GROUT PRODUCTS.

WARRANTY PROVISIONS OF THIS MACHINE ARE HANDLED DIRECTLY THROUGH THE MANUFACTURER.
EZG MANUFACTURING * 1833 NORTH RIVERVIEW ROAD * MALTA, OH 43758
FAX 740-962-2037 * WARRANTY@EZGROUT.COM

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

EZ Survey

WHERE DID YOU FIRST HEAR ABOUT EZG MANUFACTURING? (CHECK ONE)

Masonry Magazine Website Newsletter Referral Masonry Construction

Other _____

WHAT INFLUENCE YOU TO BUY? QUALITY PRICE EAST TO USE OTHER

WHO IS YOUR SALES REPRESENTATIVE? _____

ARE YOU SATISFIED WITH THE CUSTOMER SERVICE YOU RECEIVED? YES NO

EXPLAIN: _____

WHAT OTHER EZG MANUFACTURING PRODUCTS DO YOU OWN?

WOULD YOU LIKE TO BE FEATURED IN OUR NEWSLETTER? _____

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

Comments: _____

