

OPERATOR MANUAL

Stone
CONSTRUCTION EQUIPMENT
RIGHT BUILT. BRED TOUGH. BORN TO WORK.

~~FB~~
Mud Buggy™

AA-01
~~FB~~

Model SB1600 SB2100, FB1000



MATERIAL HANDLER



10. A



**STONE CONSTRUCTION EQUIPMENT, INC.
RIGHT BUILT PRODUCTS FROM A RIGHT BUILT COMPANY.**

Right Built means tough, reliable, easy to use machines that lower lifetime costs. They're designed to be reliable, productive, operator friendly and serviceable, always with the end user in mind.

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CALIFORNIA PROPOSITION 65 WARNING	IBC

These instructions include:

Safety regulations
Operating instructions
Maintenance instructions

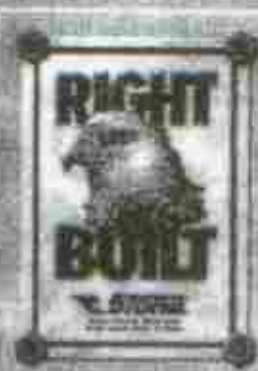
- These instructions have been prepared for operation on the construction site and for the maintenance engineer.
- These instructions are intended to simplify operation of the machine and to avoid malfunctions through improper operation.
- Observing the maintenance instructions will increase the reliability and service life of the machine when used on the construction site and reduce repair costs and down-times.
- Always keep these instructions at the place of use of the machine.
- Only operate the machine as instructed and follow these instructions.
- Observe the safety regulations as well as the guidelines of the civil engineering trade association. Observe the safety rules for the operation of road rollers and compactors and the pertinent regulations for the prevention of accidents.
- The manufacturer is not liable for the function of the machine when used in an improper manner and for other than the intended purpose.
- Operating errors, improper maintenance and the use of incorrect operating materials are not covered by the warranty.
- The above information does not extend the warranty and liability conditions of business of the manufacturer.

Location of warranty information:

1. Information on S/N tag.
2. Information on engine tag.
3. Information on S/N tag if applicable.
4. Date you purchased machine.
5. Dealer machine was purchased from.
6. Information on battery and battery warranty card.

Please enter the following data. This will help us identify your machine or warranty work.

1. Machine Type: Murray Tool **01833**
Rental
- Machine S/N: Buggy Plastic Recoil Foam
2. Engine Type: _____
Engine S/N: Serial #452008156
3. VIN: 
4. Purchase Date: _____
5. Dealer/Distributor Information:
Name: _____
Address: _____
Phone #: _____
Fax #: _____
6. Battery Manufacturer: _____
Battery Type: _____
Battery S/N: _____



MUD BUGGY

STONE CONSTRUCTION EQUIPMENT, INC.
P.O. BOX 150, HONEOYE, NEW YORK 14471
PHONE: (800) 888-9926 FAX: (585) 229-2363



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 90 days for concrete vibrators, one year for Rhind® Single Drum Dirt Roller, Bulldog® Trench Rollers, Wolfair™ Asphalt Roller, Smooth Operator™ Power Trowels, Stomper®, Saw Devil® Concrete and Masonry Saws, Silver Fox™ Forward Plate, Lift-Jockey™, Mud-Buggy™, Groutzilla™ Placement Systems, and 6 months for all other products from the date of shipment. The foregoing shall be the exclusive remedy of the buyer and the exclusive liability of the Manufacturer.

The Manufacturer extends the warranty period to "Lifetime" for the drum bearings and seals for the mortar mixers, and agrees to furnish, free of charge, the bearings and seals only upon receipt of the defective parts. The warranty is two years for eccentric bearings on the forward plate compactors, concrete and mortar mixer drums, trowel gearboxes, three years on the trench roller microprocessor (ECB) and five years on the trench roller eccentric bearing.

Our warranty excludes normal replaceable wear items, i.e. gaskets, wear plates, seals, O-rings, V-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.

The Manufacturer's sole responsibility for any breach of the foregoing provision of this contract, 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 or on an economical transportation basis will be refused (b) as an alternative to the foregoing modes of settlement - the Manufacturer's dealer to repair defective units with reimbursement for expenses, except labor, and be reviewed with the Manufacturer prior to repair. A Warranty Evaluation Form must accompany all warranty claims. Warranty is voided by product abuse, alterations, and use of equipment in applications for which it was not intended, use of non-manufacturer parts, or failure to follow documented service instructions.

Except as set forth hereinabove and without limitation of the above, there are no warranties or other affirmations, which extend beyond the description of the products and the fact hereof, 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 revenues, loss of use of the product or any associated product, cost of capital, cost of substitute products, facilities or services or claims of customers.

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

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, dealer and employees of Manufacturer are not authorized to make modification to this warranty, or additional warranties binding on Manufacturer. Therefore, additional statements, whether oral or written, do not constitute warranty and should not be relied upon.

Effective September, 2007.

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PN 51018 - 1-8691 09/2007

Notes/Notas/Notes/Note:



STONE CONSTRUCTION
EQUIPMENT, INC.



1. INTRODUCTION

INTRODUCTION

INTRODUCTION

Congratulations on your purchase of a Stone Mud Buggy™! You've made an excellent choice! Stone buggies have been specifically designed as the ideal machine for the professional contractor who is engaged in professional concrete finishing. The Stone Mud Buggy is ergonomically engineered to optimize operator interface with the total machine—it's really "user friendly". Besides good visibility, you'll find that the controls are in exactly the right places for maximum comfort. And, it's really convenient to monitor all the consumables—gas and oil levels.

Our common sense approach to servicing is a valuable benefit on the mud buggy. Thanks to our modular design, everything that needs servicing has easy access.

The following instructions were compiled to provide you information on how to obtain long and trouble-free use of the buggy. Periodic maintenance is essential. Read the manual in its entirety and follow the instructions carefully. Refer to the Technical Data Section to familiarize yourself with machine controls and components. Failure to do so may injure yourself or a bystander.

INTENDED USE

These machines are dynamically balanced to meet standards for lateral stability, longitudinal stability, parking and service brake effectiveness which provides a stable, reliable and productive machine for carrying and moving all types of materials for any job site. The Mud Buggy moves concrete, mortar, gravel, dirt or debris around job sites.

Use of the machine in any other way is considered contrary to the intended use and will void the warranty.

Danger Zone

While the machine is in use unauthorized persons must remain outside the danger zone.

GENERAL DESCRIPTION

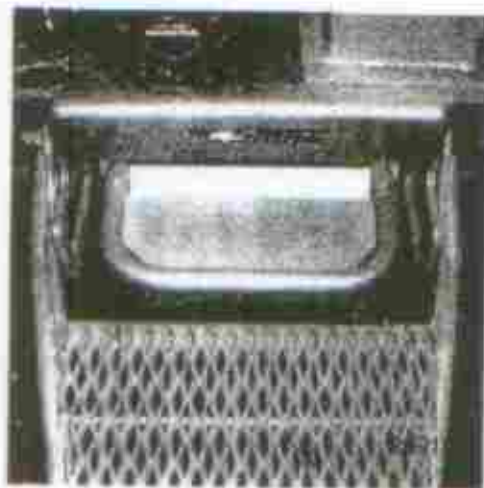
Your new Stone Mud Buggy™ comes standard with many features to enhance productivity, performance and safety. Listed below are just a few of these features:

Capacity to Haul

Walk behind or ride on this machine to haul up to 21 cu. ft. of material. The hydraulic dump system allows you to move and dump up to 2,500 lbs loads. The Stake Bed version carries up to 10 cu. ft. or 2,500 lbs.

Operator Platform

Extra large, platform-mounted service brake discs that require operator to step off platform to activate brake pedal. Machine has a fold up lockable angled platform for more maneuverability.



This safety alert symbol identifies important safety messages in this manual.

When you see this symbol, be alert, your safety is involved. Carefully read the message that follows and inform other operators.



MUD BUGGY

Heavy Duty Frame

Reduces vibration, increases traction and lowers center of gravity for stability—empty or full.

Poly-Contoured Tub

Easy-to-clean, heavy-duty polyethylene tub designed and contoured to control splash. It is easily removed with six bolts and can be replaced with optional steel tub. Tub and base can be exchanged with the Stake Bed.

Easy Serviceability

One-piece, lift away, polyethylene engine cover requires no tools to be removed. The lift-away engine cover allows easy access to all maintenance points.

Easy Access to Controls

Operator controls are located within easy reach. The integrated speed and directional control levers are handlebar mounted for ease of use. The dual function dump pedal or dump lever can be used for controlled dumping. The cam locking parking brake lever provides secure locking of the automotive-type brake shoes with a knob on the lever to allow brake tension adjustment.

Quick Release Tire Hubs

The Quick Release Tire System allows quick removal of the outer Buggy tires. The quick release option allows the Buggy to be converted from a 46 inch to a 36 inch wide machine without any special tools for hub removal.

Stake Bed Version

Offers 3-in-1 versatility of a stake bed, flat bed or extended flat bed. Convenient utility cart carries loads of paneling, shingles, concrete bags, etc. with weights up to 2,500 lbs. The extended flat bed supports wider loads while the narrower flat bed fits through a standard doorway once outer tires are removed.

Dual Action Tailgate

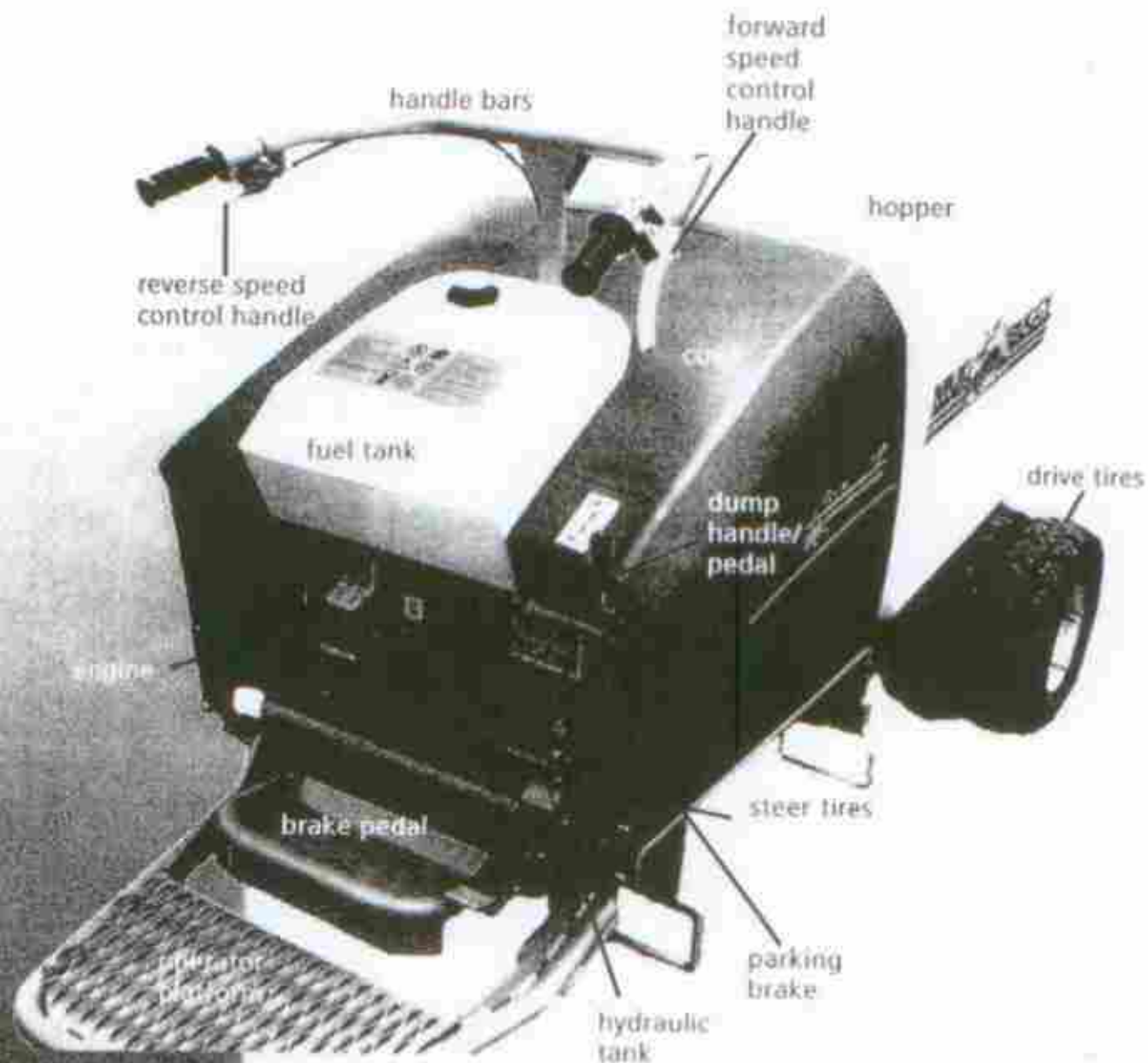
Dump or spread the load with the stake bed utility cart's dual-action tailgate. Can be unhinged at the top or bottom.



MUD BUGGY

INTRODUCTION

MACHINE DIAGRAM



MUD BUGGY

STONE CONSTRUCTION
EQUIPMENT, INC.



2. TECHNICAL DATA

TECHNICAL DATA

SPECIFICATIONS

MODELS	SB1600	SB2100	FB1000
Origin	U.S.A.	U.S.A.	U.S.A.
Capacity (m ³)	15.00 (4.147)	21.00 (5.750)	10.00 (2.728)
Weight (kg)	1370 (3016.7)	1520 (3350)	1520 (3350)
Length (mm)	1095 (42.698)	1055 (41.534)	1055 (41.534)
Width (rear wheel) (mm)	63.75 (2.509)	80	63.75 (2.509)
Width (front wheel) (mm)	46 (1.811)	46 (1.811)	46 (1.811)
Height (mm)	45 (1.772)	45 (1.772)	45 (1.772)
Wheelbase (mm)	42 (1.653)	42 (1.653)	42 (1.653)
Max. Load (kg)	2500 (5511.02)	2500 (5511.02)	2500 (5511.02)
Tub	Polyethylene	Steel	Stainless Steel
Engine (kW)	13 hp Honda (9.7)	13 hp Honda (9.7)	13 hp Honda (9.7)
Speed (km/h)	7 (4.34)	7 (4.34)	7 (4.34)
Fuel Tank (l)	7 gal (26.5)	7 gal (26.5)	7 gal (26.5)
Discharge Height (mm)	65 (2.559)	65 (2.559)	65 (2.559)
Options	Quick Release Removable Tires Tyre-Mount Tires Non-Marking Tires Leaf Guard Electric Start	Tyre-Mount Tires Non-Marking Tires Electric Start	Quick Release Removable Tires Tyre-Mount Tires Non-Marking Tires Electric Start

Lubrication Specifications SB1600, SB2100, FB1000

	Type	Quantity
Engine Crankcase Quartz/Filter	See Engine Manual	(1.6 / 1.1)
Wheel Bearings	Mobilgrease XHP 222 (ELGI ZEP lithium complex)	Once A Year or As Needed
Grease Fittings (oz / mm)	Mobilgrease XHP 222 (ELGI ZEP lithium complex)	As Required
Hydraulic System Quartz/Filter	Mobilfluid 474-Hydraulic Oil (NF 1521-546255-55-T-51 FAT 50155)	30 / 28.75

**RIGHT
BOAT**

MUD BUGGY

Manufactured under U.S. Patent No(S). 7,201,453 and 7,399,038

ENGINE & LUBRICATION SPECS

TECHNICAL DATA

ENGINE SPECIFICATIONS

Engine Type	13hp 4-cycle Overhead Valve
Engine Make	Honda
Engine Model	GX390
Torque @ 2500 RPM	19.5 ft.lb. (26.5 Nm)
Operating RPM	3900
Battery	16.5 amp
Fuel Type	Unleaded Gasoline Minimum 86 Octane—U.S. *
Fuel Tank Capacity	7 gal (26.5 liter)
Fuel Consumption	1.14 gph (4.2 liter)

* Outside of U.S. Use Highest Available Octane Rating

Machine Sound Level Test

Machine Type	Mud Buggy Material Handler
Sound Level Meter Calibration Date	February 15, 2000
Meter Type	Simpson Model 886-2 Type 2
Test Date	9/20/2001
Test Conditions	
Temperature	31 degrees Fahrenheit / 1 degree Celsius
Ambient Sound	DBa Fast mode
Soil Condition	Silt and clay
Moisture Limit	Approximately equal to 50%
Engine Speed	3600 RPM 60 Hz
Test Site	Honeoye, New York USA
Sound Level at Operator Position	71 dBA

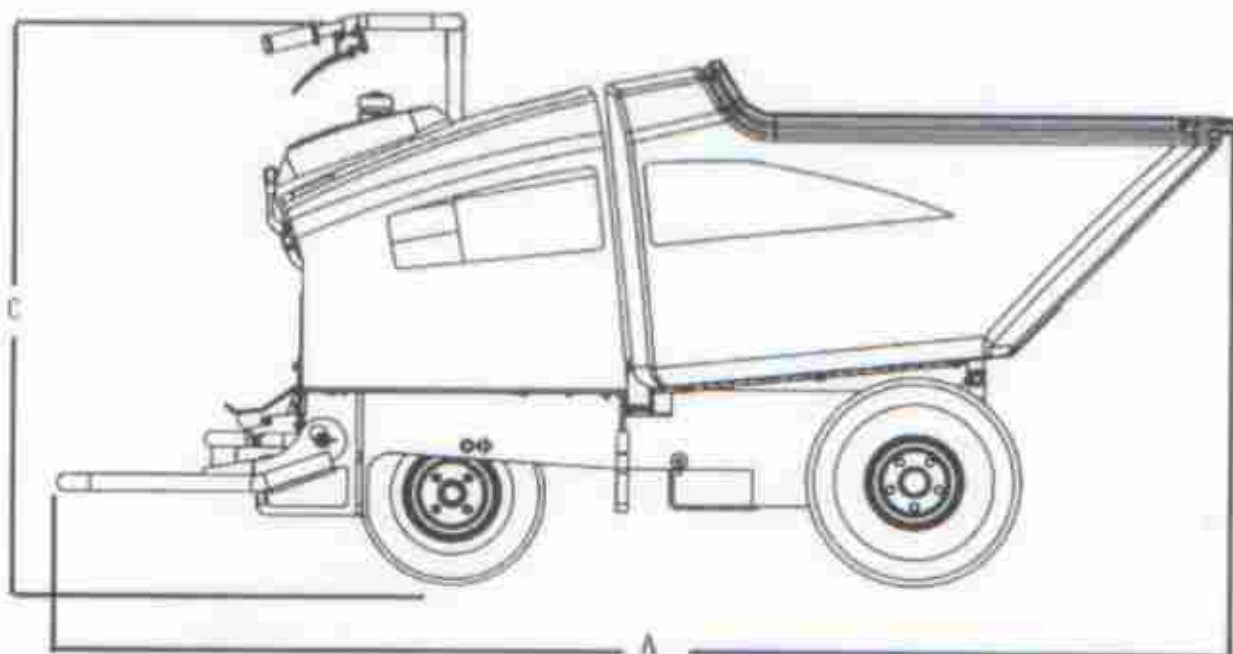


Since the permissible noise level rating of 89 dB(A) can be exceeded with this machine, the operator must wear suitable hearing protection!

MUD BUGGY

INTRODUCTION

MACHINE DIMENSIONS

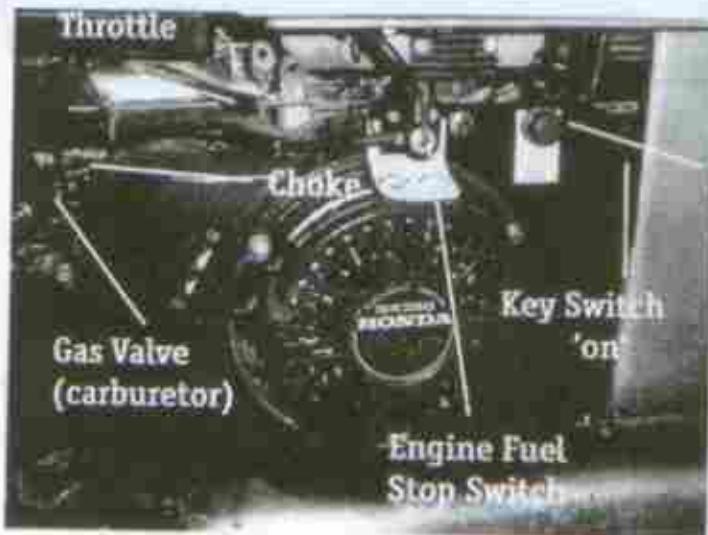
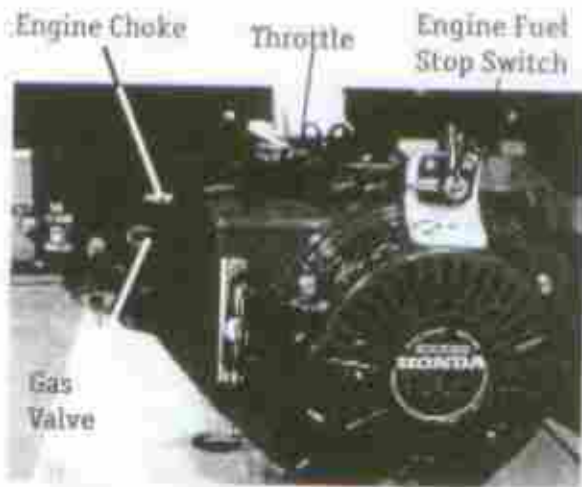


MUD BUGGY

Dimensions	A Length	B Width	C Height
SB1000 L x W x H (ft/in)	105.5 / 268	46 / 117	45 / 114,3
FB1000 L x W x H (ft/in)	105.5 / 268	46 / 117	45 / 114,3

ENGINE CONTROLS

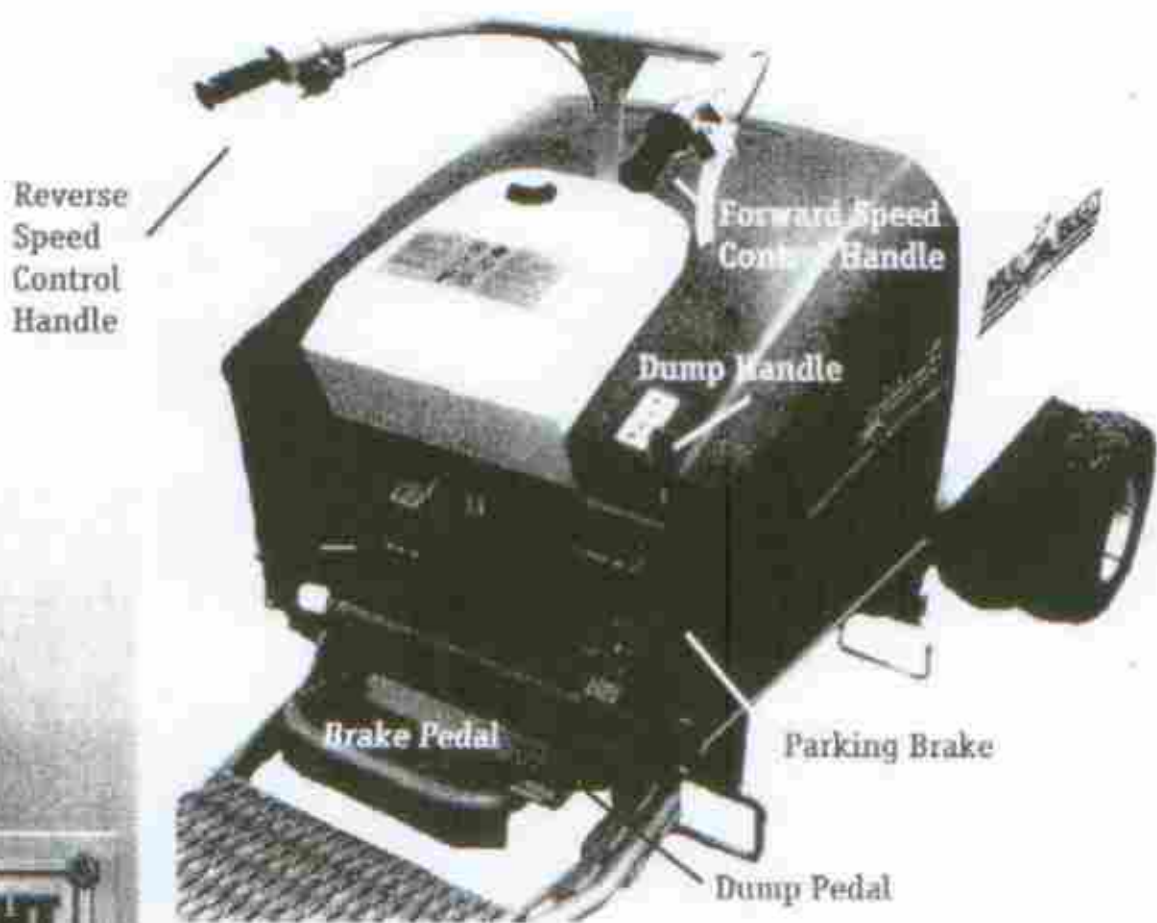
TECHNICAL DATA



MUD BUGGY

TECHNICAL
DATA

MACHINE OPERATION CONTROLS



P/N & PLATE LOCATION

TECHNICAL
DATA



Engine P/N



S/N Plate

MUD BUGGY

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3. HEALTH & SAFETY

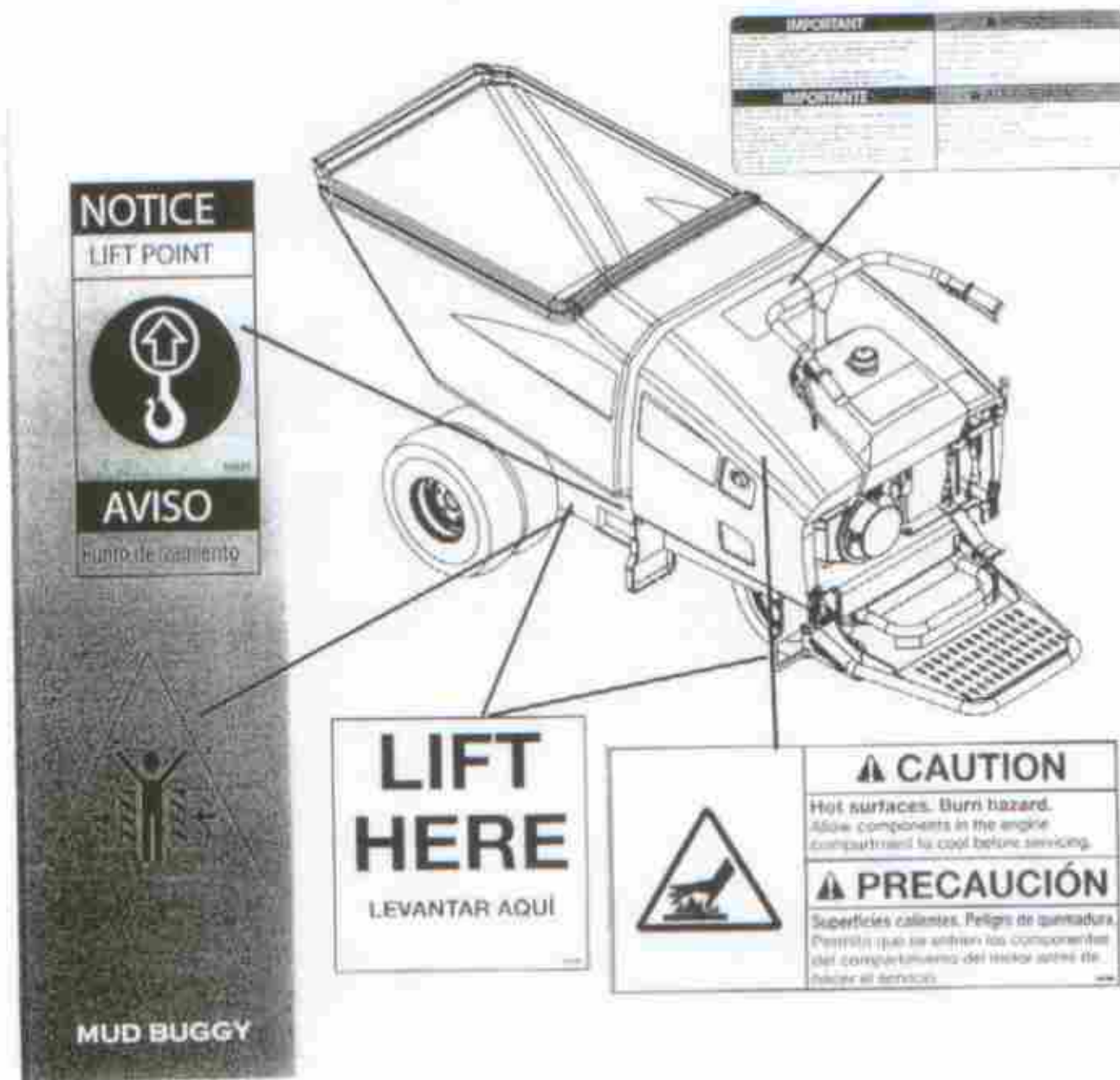
HEALTH & SAFETY

DECAL PLACEMENT

Before using this equipment, study this entire manual to become familiar with its operation. Do not allow untrained or unauthorized personnel, especially children, to operate this equipment. Use only factory authorized parts for service.


When warning decals are destroyed or missing, contact the Manufacturer immediately at 1-800-888-9926 for replacement. For the safety of your self and others, it is imperative that the following rules are observed. Failure to do so may result in serious injury or death.

For ordering, refer to *Decal Identification* in Parts Manual.

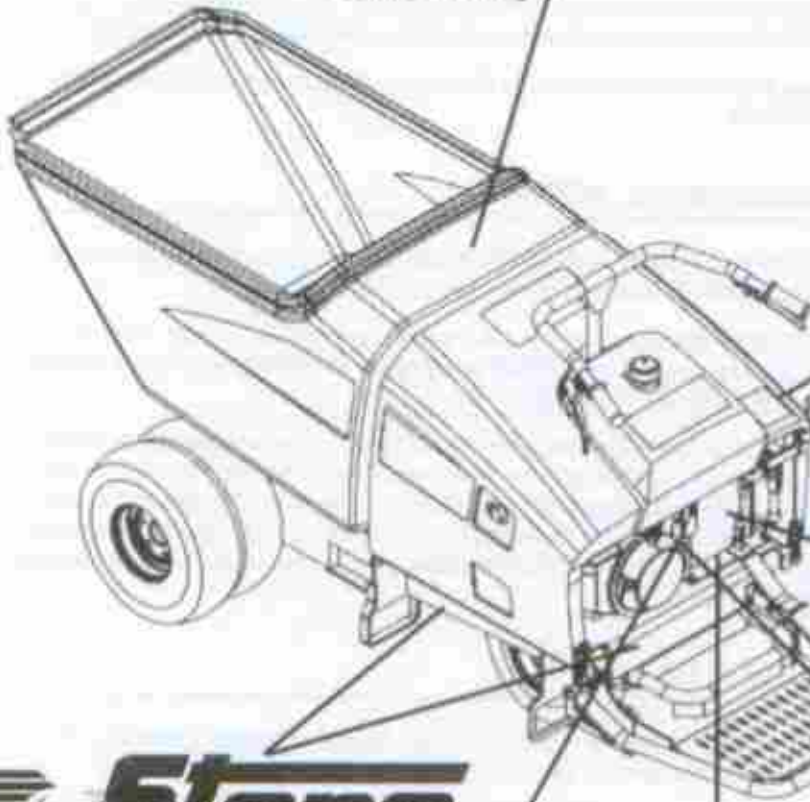


DECAL PLACEMENT

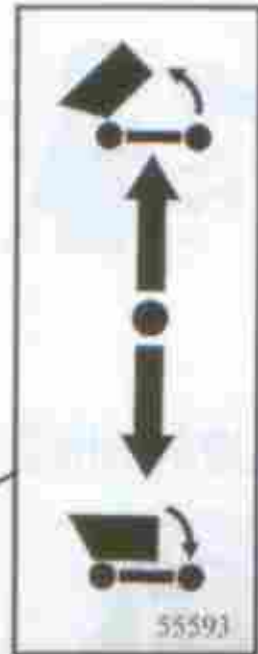
HEALTH & SAFETY

NOTICE LIRE PERICOLO AVISO Peligro de caídas		WARNING FALL HAZARD Use proper tie-off technique. Do not use a single grab.	ADVERTENCIA Peligro de caídas: asegúrese de utilizar la técnica correcta de amarre. No utilice un solo agarre.
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Stake Bed only





Stone



55593

NOTICE L'utente deve essere avvertito di indossare il casco e il cinturino di sicurezza durante l'uso del veicolo, anche se il veicolo è fermo. Consultare il manuale dell'utente per ulteriori informazioni.
AVISO El usuario debe estar advertido de usar el casco y el cinturón de seguridad durante el uso del vehículo, incluso si el vehículo está detenido. Consulte el manual del usuario para obtener más información.

	
ILUN MARCHA	STOP ARAGAR

CAUTION MOBIL 424 HYDRAULIC FLUID ONLY Check when fluid is cold and unit is level.
PRECAUCIÓN UTILICE SOLAMENTE FLUIDO HIDRAULICO MOBIL 424. Verifique cuando el fluido está frío y la Unidad está nivelada.



PERICOLO SCIVARE
PELIGRO RESCIBIR

MUD BUGGY

HEALTH & SAFETY



FOLLOW SAFETY INSTRUCTIONS

- Carefully read all safety messages and decals in this manual and on your machine safety signs. Keep decals in good condition. Replace missing or damaged decals. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs and decals are available through your dealer.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.
- If you do not understand any part of this manual and need assistance, contact your dealer.

UNDERSTAND SIGNAL WORDS

- A signal word – DANGER, WARNING, or CAUTION – is used with the safety-alert symbol. DANGER identifies the most serious hazards.
- DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. IMPORTANT also calls attention to safety messages in this manual.
- This notation appears before warnings in the text. It means that the step that follows must be carried out to avoid the possibility of personal injury or death. These warnings are intended to help the technician avoid any potential hazards encountered in the normal service procedures. We strongly recommend that the reader takes advantage of the information provided to prevent personal injury or injury to others.

PRACTICE SAFE OPERATION

- Users must be trained to operate this unit. Read the Operator's Manual and Engine Owner's Manual. Learn to operate this unit safely.
- Never perform any work on the unit while it is running.
- Before working on the unit, stop the engine and disconnect the spark plug wire(s) to prevent accidental starting. If electric, unplug motor.
- Keep cowl closed and latched during operation, close and latch cowl immediately after starting.
- Keep hands, clothing and jewelry away from all moving parts.
- Before starting machine, make sure that there are no persons or obstacles near or under machine.
- Do not operate the unit in standing water.
- Ear protection required when operating this equipment.
- Exposure to loud noise can cause impairment or loss of hearing.
- For foot protection, wear steel toe shoes or toe pads.

⚠ WARNING



MUD BUGGY

PROPER VENTILATION

- Never operate unit in a poorly ventilated or enclosed area.
- Avoid prolonged breathing of exhaust gases.
- Engine exhaust fumes can cause sickness or death.

WEAR PROTECTIVE CLOTHING

- Wear close fitting clothing and safety equipment appropriate to the job.
- Prolonged exposure to loud noise can cause impairment or loss of hearing.
- Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.
- Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating machine.

HOT SURFACES

- Muffler, engine, and engine shroud may be hot.
- Allow all components in the engine compartment to cool before performing any service work.

PRACTICE SAFE MAINTENANCE

- Understand service procedure before doing work. Keep area clean and dry.
- Never lubricate, service or adjust machine while it is moving. Keep hands, feet, and clothing from power-driven parts. Disengage all power and operation controls to relieve pressure. Stop the engine. Allow machine to cool.
- Securely support any machine elements that must be raised for service work.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Disconnect battery ground cable (-) before making adjustments on electrical systems or welding on machine.
- Never perform any work on the unit while it is running. Before working on the unit, stop the engine and disconnect the spark plug wire(s) to prevent accidental starting, wheels to prevent rolling.
- Keep engine cover closed during the operation.
- Keep all guards in place.

HEALTH & SAFETY



MUD BUGGY

HEALTH & SAFETY

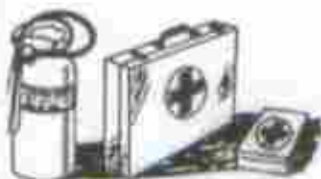


USE COMMON SENSE WHEN HANDLING FUELS

- Transport and handle fuel only when contained in approved safety containers.
- Do not smoke when refueling the engine or during any other fuel handling operation.
- If fuel is spilled during refueling, wipe it off from the engine immediately and discard the rag in a safe place.
- Do not operate the equipment if fuel or oil leaks exist - repair immediately.
- Never operate this equipment in an explosive atmosphere.
- Starting fluid (ether) is highly flammable, do not use or an explosion or fire may result.

PREPARE FOR EMERGENCIES

- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



STARTING FLUID

- Starting fluid (ether) is highly flammable, do not use or an explosion or fire may result.



MUD BUGGY

WARNING - USE CAUTION

- Never leave equipment unattended while running.
- Be certain you can control both speed and direction before moving.
- This is a one-person buggy. Never permit riders.
- Avoid sharp turns at high speed.

DISPOSE OF WASTE PROPERLY

- Improperly disposing of waste can threaten the environment and ecology. Potentially harmful waste used with equipment include such items as oil, fuel, coolant, brake fluid, filters, and batteries.
- Use leak proof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.
- Do not pour waste onto the ground, down a drain, or into any water source.
- Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center.

WARNING - EYE PROTECTION

- Always wear splash goggles when operating equipment.

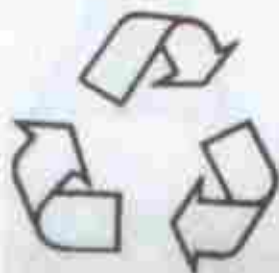
EXTENSION CORDS

- Always use the proper size grounded extension cord, conforming to the National Electric Code and Local Ordinances.
- Inspect all extension and electrical cords for cuts, frayed wire and broken connectors before use. Do not use cords if not in good condition.
- Do not route extension cords through standing water.
- Do not operate the unit in standing water.
- When cleaning the unit, never spray water over the motor.

HEALTH & SAFETY



Environment



MUD BUGGY

HEALTH & SAFETY



MUD BUGGY

BATTERY CHARGING

- Read and understand the Maintenance Section of this manual before attempting to charge the battery.
- Before using a charger, read all the manufacturer's instructions for, and caution markings on (1) charger and (2) battery.
- Wear personal protective equipment including gloves and complete eye protection that protects eyes from all angles.
- Never work alone with electrical equipment. Make sure that someone is nearby to give assistance if you need help.
- Reduce explosive gas (hydrogen). Batteries give off explosive gases when charging and serious injuries can occur. Be sure the area around the battery is clean and well ventilated before and during the charging process.
- Avoid flames and sparks near the battery. Do not smoke or weld near the battery. Keep flames, matches, lighters, cigarettes or other ignition sources away from the battery.
- Use only cables and clamps that are well insulated and in good condition to make connections between battery and charger.
- Exercise caution in using metal tools on or near the battery to reduce the risk of short circuits that may cause battery explosions. Do not place tools on top of the battery.
- Avoid overcharging batteries. Some chargers can overcharge a battery if left connected for an extended period of time resulting in loss of water and creation of hydrogen gas. Rising battery temperature and vigorous gassing are clear indications of excessive charging which may reduce battery life.
- So called FAST (also known as High Rate or Boost) chargers should be used with caution. Do not use a fast charger for more than 30 minutes on any battery.
- In very cold weather, a discharged battery may freeze. Never charge a frozen battery. Gases may form which can crack the case and release battery acid.
- Avoid contact with corrosion due to battery acid. Battery posts may have acid corrosion that may be harmful to eyes and skin.
- If the battery is to be removed and/or replaced, always use a battery carrier. Carrying the battery by hand may put pressure on its ends, causing battery acid to be forced out the vent caps. Avoid tipping the battery, which may cause the release of battery acid through the vent caps. Avoid dropping the battery. Batteries can be heavy and may cause injuries if dropped. Dropping the battery can crack the case and release battery acid.
- Be sure to wash your hands with soap and water after servicing or handling the battery. This will help neutralize any acid you may have contacted. Always have plenty of fresh water and soap nearby in case battery acid contacts the eyes, skin or clothing. If battery acid contacts the skin or clothing, wash immediately with soap and water. If battery acid enters the eye, immediately flood eye with cold running water for at least fifteen (15) minutes and get medical help immediately.

SAFETY USE

These machines are designed to carry out the function of moving concrete, mortar, gravel, dirt, debris, paneling, or shingles.

If used correctly they will provide an effective and safe means of moving loads and meet the appropriate performance standards.

It is essential that the operator of the machine is adequately trained in its safe operation, be authorized to operate it, and have sufficient knowledge of the machine to ensure that it is in full working order before being put to use.

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4. OPERATION

OPERATION

GENERAL SAFETY NOTES

If Applicable, Observe the Following Points for Your Safety and Protection

Operators and maintenance personnel must always comply with the following safety precautions. These precautions are given here for your safety. Review them carefully before operating the machine and before performing general maintenance or repairs. Supervising personnel should develop additional precautions relating to specific work area and local safety regulations.

- Before operating the machine ensure you have had proper training and are fully conversant with the machine and its operation - If in Doubt ASK!
- Read this instruction manual carefully before operating the machine. Ensure this instruction manual is kept with the machine at all times and in good condition - replace the manual immediately if it becomes dirty, damaged or lost.
- Decals are fitted to the machine for safety purposes and MUST be replaced immediately if they are not readable or lost. If the machine is repaired and parts have been replaced on which decals were fixed, ensure new decals are fitted before the machine is put into service.
- Always make sure there is adequate ventilation around the machine. Never run the engine in an enclosed area without good ventilation or next to combustible materials.
- Stop the engine before refuelling. If there is a spillage, mop it up and do not start the engine until it is safe again.
- The exhaust gets extremely hot. Do not place anything on top of it and keep all combustible materials clear. Do not attempt any maintenance on a hot engine.
- Check your local laws, the engine may require a spark arrester etc.
- Do not inspect or clean the machine with the engine running.
- Make sure you and anyone else who uses the machine have been shown how to operate it safely.
- A hard hat, safety boots, safety glasses and reflective clothing must be worn at all times.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the machine unless thoroughly trained.
- Do not operate the machine if it is damaged, improperly adjusted or not completely and correctly assembled.



PREVENT DAMAGE TO MACHINE

OPERATION

Observe the Following Points, If Applicable, to Prevent Damage to the Machine

- Always replace hoses, couplers and other parts with parts supplied or recommended by Stone Construction Equipment, Inc. NEVER USE SPARE PARTS OF INTERIOR SPECIFICATION.
- Never allow unqualified people to perform repairs on the machine.
- Never overfill the engine oil or fuel tank.
- If a hose bursts, stop the engine immediately - ALWAYS replace with a hose of the correct specification.
- Check the reason for low oil level.
- Follow the engine starting instructions in this manual and on the machine.
- If you see oil leaking, report it and get it fixed immediately.
- Make sure the correct fuel, oils and grease are used.
- Never use the machine for purposes other than those it was manufactured for.
- Always ensure workmates are aware of your work plan.
- If equipped, ensure all tires are serviceable before using the machine.
- Do not operate the machine if it is damaged, improperly adjusted or not completely and correctly assembled.
- Establish a training program for all operators to ensure safe operation.

OPERATION

SAFETY SYMBOLS

Safety symbols are used in these instructions to bring attention to actions that may cause personal injury or damage to the equipment. Always observe these symbols, they are included for your safety and for the protection of the machine.

DELIVERY INSPECTION

Upon receipt of your equipment, **CAREFULLY CHECK FOR ANY FREIGHT DAMAGE.** Any damage should be immediately reported to the carrier and a claim registered.

This unit is manufactured to the strictest specifications and inspection procedures. If any material or manufacturing defects are found, return the tag on the machine with the assembler's signature and your findings to the manufacturer. We want to know when a product is less than perfect. We also welcome any and all input on how the product may serve you better.

BREAK-IN PERIOD

This unit is ready for normal operation. However, extra care during the first 50 hours of operation will result in more satisfactory, long-term machine performance and cost of ownership. Do not exceed 50 hours of operation before conducting the break-in first service.

- Run engine at full throttle.
- Idle engine 3 minutes before stopping.
- **DO NOT** idle engine for long periods.
- Check engine oil level daily.
- Periodically inspect for loose hardware.

KNOW YOUR BUGGY

Read and understand the owner's manual before starting the unit. Make sure you understand the purpose of every control. When operating the unit, remember the capacity it can carry and adjust speed and load for changing conditions.

Inspect Machinery

A daily inspection of the unit is recommended to ensure all systems are in proper working order.

Check Travel Path

Inspect the surface on which the unit is going to travel. Avoid soft soil, slippery spots, and water spots. Avoid anything that could make you lose control.



MACHINE CLEANLINESS

Keep unit clean of all debris. Make sure foot stands stay clean to prevent accidents.

PRE-START CHECKLIST

- Read Operator Manual and check that operator and engine controls function properly before starting.
- Check the oil level before starting the engine. *Warranty is VOID if run without oil.* Consult the Engine Manual supplied with this unit for specific instructions and oil recommendations.
- Check engine air filter.
- Check engine fuel level.
- Check hydraulic fluid level.

WARNING

ENGINE IS EQUIPPED WITH LOW OIL SHUTDOWN. UNIT WILL SHUTDOWN IF ENGINE OIL IS LOW.

OPERATION

STARTING THE MACHINE

To Start

Read Operator Manual before operating machine.

1. Set parking brake to 'on' position (figure 1)
2. Turn engine choke to full 'on' position
3. Turn gas to 'open' position (figure 2)
4. Turn engine fuel stop switch to 'run' position (figure 2)

For electric start version push and hold button in until engine starts then release

For manual start version use pull cord
5. Adjust throttle speed (figure 2)
6. Turn choke to full 'open' when engine is warm (figure 2)

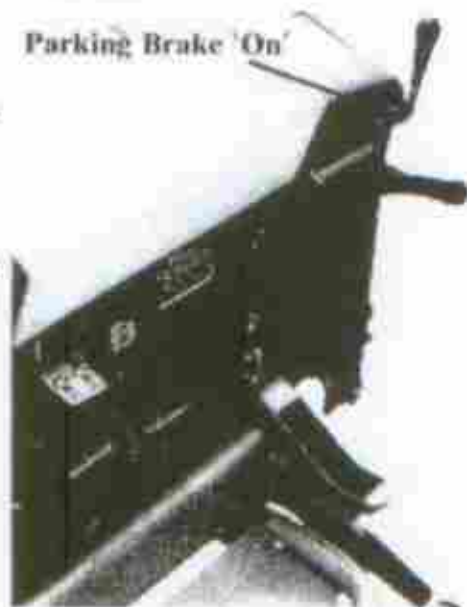


figure 1

NOTE: These starting instructions are general guidelines only. Consult the ENGINE MANUAL included with the unit for specific instructions.

TO SHUT OFF ENGINE

1. Reduce throttle.
2. Set parking brake to 'on' position (figure 1).
3. Turn engine fuel stop switch to the 'stop' position (figure 2).
4. Turn gas 'off' when engine stops running (figure 2).



figure 2. Engine Controls Electric Option



MACHINE OPERATION

1. Start engine as described under section Starting The Machine.
2. Adjust throttle lever to obtain desired RPM (figure 2).
3. Release parking brake lever to off position (figure 4).
4. Two controls are located on the handle bar (see figure 3). The control on the operator's left-hand side is for reverse and the control on the right-hand side is for forward motion. Select the control for the corresponding motion you want to go.
5. Squeeze speed control handle (figure 3) on handle bar to move the machine.
Note: The more you squeeze the handle the faster the machine will travel.
6. When you release the speed control handle the machine will stop (if machine does not stop when speed control is released, have machine inspected by Certified Repair Person).
7. Service Brake Pedal (see figure 3). Brakes are adjusted at factory and will need to be adjusted as brake shoes wear. Check operation daily. Adjust at 25 hours then as needed. Refer to Service Manual.

OPERATION

MUD BUGGY

OPERATION

MOUNTING/DISMOUNTING BUGGY

Always use 'three point contact' when mounting the buggy. Three points refers to three out of four arms/legs are in contact with buggy during mounting and dismounting. Always face the buggy whether mounting or dismounting.

DUMPING OPERATION

Capacity

Know the load capacities of your buggy and never exceed them. Buggies normally operate on uneven, unpaved, bumpy and/or inclined surfaces—adjust load accordingly.

1. Position the machine where you intend to dump load.
2. Push handle forward to dump (figure 3).
3. Pull handle back to lower bucket.

OPERATOR CONTROLS

Before operating this unit, it is important to familiarize yourself, and any other personnel



OPERATION

who will be using it, with the location and proper use of the controls to insure safe and efficient operation.



figure 3

OPERATION

QUICK RELEASE DUAL WHEELS (SB1600 AND FB1000 ONLY)

Changing Dual Wheel to Single Wheel

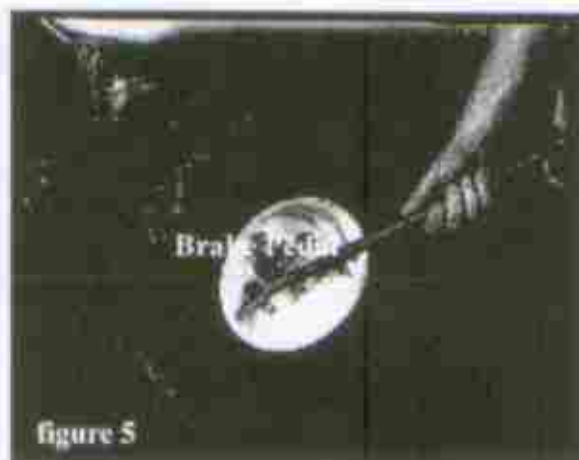
Standard Machine

1. Jack machine up. Apply parking brake.
2. Remove five (5) lug bolts.
3. Remove outer wheel.
4. Remove five (5) lug nuts from inner dual wheel adapter then remove adapter.
5. Replace five (5) lug nuts on inner wheel and torque to 90 ft. lbs.
6. Repeat above steps on opposite side of machine.

Note: Maximum payload reduced by 25% (1875 lbs) when operating machine without dual wheels.

Quick Release Wheel Option

1. Position machine inner wheel over 2x4 and apply parking brake.
2. Remove large tee bolt in center of wheel with crow bar (figure 5).
3. Remove outside wheel with quick change hub attached.
4. Repeat above steps on opposite side of machine.



COLD WEATHER STARTING

Hard starting may occur in temperatures below 35 degrees Fahrenheit. Using a lighter grade of oil in both the engine and hydraulic tank is recommended. Return oil to the proper grade when temperatures are above 35 degrees Fahrenheit.

HOSES, FITTINGS AND LEAKAGE

Check weekly for loose hose fittings, damage, and leakage—it is important to check entire machine periodically.

CLEANING MACHINE

Wash daily with warm, soapy water. Rinse off mud and dirt. Use pressurized air (30 PSI max) to blow debris. Dirt and mud build up will decrease machine performance and/or cause failures. Avoid spraying water directly on electrical components or electrical damage may occur.

PARKING BUGGY

Parking on a Grade

Parking the unit on a grade should be avoided if possible. If unit must be parked on a grade, park it at right angles to the slope and apply the parking brake and block the wheels if necessary.

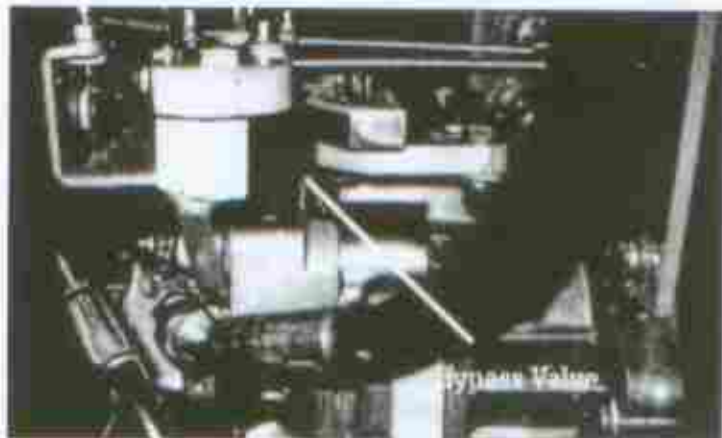
Long Term Parking

When unit is not in use for long period of time, tilt tub up so water, snow, and debris will not collect inside. Cover dump cylinder shaft to prevent corrosion. Apply parking brake and park unit out of main traffic areas.

If buggy will be exposed to wet freezing weather for any length of time, place tub in the dump position to prevent any possibility of freezing water damaging the tub. Cover dump cylinder shaft to prevent corrosion.

Moving Machine Without Engine Power

The unit can be moved short distances if the engine won't run. The transmission is provided with a bypass valve. Turn this valve counterclockwise to tow and clockwise to run.



MUD BUGGY

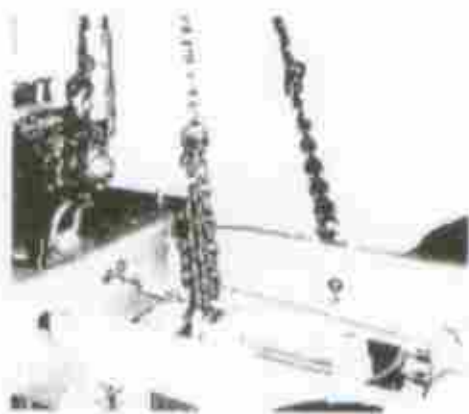
OPERATION

TRANSPORTING MACHINE

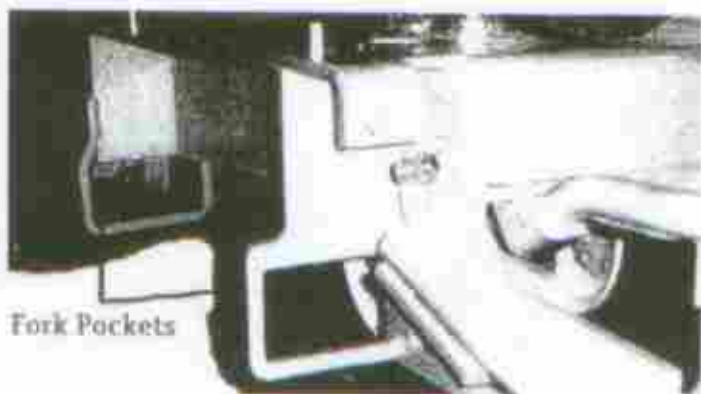
When transporting unit, observe overall height for proper clearance of obstacles overhead. Make sure bucket is lowered and latched down. Secure unit with the proper devices and in the proper locations.

MUD BUGGY LIFTING POINTS

The unit can be hoisted with three (3) lift points under the hopper. Tilt the hopper forward to locate the three lift loops and attach chain or straps at each of the loops as shown below. Take up slack in chain or straps to properly balance the unit.



There are two ways of lifting the unit, from the side or from the front. Lifting the standing platform will allow access to the fork pockets. Accessing the side fork pockets is straight-forward.



Fork Pockets



Proper Tie Down Practices

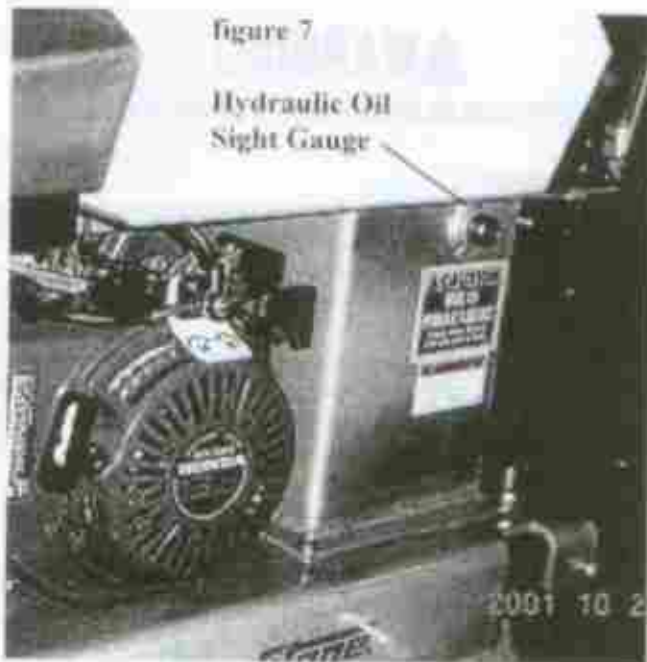
Tie unit down with proper devices. Make sure all blocking is secure.

Proper Transportation Practices

Always know overall height to allow proper clearance for overhead obstructions such as power lines, overhangs, and doorways when transporting unit on a high vehicle.

HYDRAULIC OIL

Check oil sight gauge (see figure 7) located on the side of the hydraulic oil tank in the engine compartment when the oil is at ambient temperature. Keep oil level in middle of sight glass. Consult Manual supplied with this unit for specific instructions and oil recommendations.



OPERATION

Fuel

Fill the gas tank with clean gasoline from a safety can. Consult the Engine Manual supplied with this unit for the proper type of gasoline required.

DO NOT mix oil with gasoline.

HARDWARE

Check all hardware on equipment before starting. Consult the Torque Chart section in the Service/Parts manual and tighten any loose hardware accordingly.

Follow the guidelines found in the SAFETY PRECAUTION section of this manual whenever handling gasoline.

CLEANING/STORAGE

WARNING

NEVER POUR OR SPRAY WATER OVER THE ENGINE.

Cleaning the Equipment

For consistent performance, long life and continued high quality use of this mud buggy, thoroughly clean the bucket inside and out at the end of each day's operation. To prevent lumps of dried plaster from forming and contaminating further batches of plaster or mortar, do not allow build up materials to form on bucket side walls.

Before cleaning, shut the engine off and disconnect the spark plug wire to prevent accidental starting. Spray the bucket with water before the mix dries to remove any accumulations. Dried mix should be scraped out as necessary. **DO NOT** beat on the bucket with a shovel, hammer or other device to break up accumulations of dried mix, as this will dent and damage the bucket and void the warranty.

Storage

Always store the equipment with the hydraulic cylinder contracted. This will prevent corrosion of the cylinder shaft.

Prior to storage, perform any required repairs and maintenance. See Operator and/or Parts Manual.

