OPERATION MANUAL

WHITEMAN

POWER BUGGY

MODEL WPB-16 (RECOIL START)

MODEL WPB-16E (ELECTRIC START)

Revision #7 (08/02/07)

MULTIQUIP

MULTIQUIP INC.
18910 WILMINGTON AVE.
CARSON, CALIFORNIA 90746
310-537-3700
800-421-1244
FAX:310-537-3927

PARTS DEPARTMENT:
800-427-1244
FAX: 800-672-7877

SERVICE DEPARTMENT/TECHNICAL ASSISTANCE:
800-478-1244
FAX:310-631-5032

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Atlanta • Boise • Dallas • Houston • Newark
Montreal, Canada • Manchester, UK
Rio De Janiero, Brazil • Guadalajara, Mexico

WARNING

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.

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

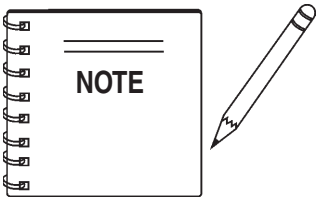
PARTS DEPARTMENT
800-427-1244 or 310-537-3700
FAX: 800-672-7877 or 310-637-3284

SERVICE DEPARTMENT
800-421-1244
FAX: 310- 537-4259

TECHNICAL ASSISTANCE
800-478-1244
FAX: 310- 631-5032

WARRANTY DEPARTMENT
888-661-4279, or 310-661-4279
FAX: 310- 537-1173

MQ-WHITEMAN WPB-16 / WPB-16E POWER BUGGY



Specification and part number are subject to change without notice.

When ordering parts, please supply the following information:

- ❒ Dealer account number
- ❒ Dealer name and address
- ❒ Shipping address (if different than billing address)
- ❒ Return fax number
- ❒ Applicable model number
- ❒ Quantity, part number and description of each part
- ❒ Specify preferred method of shipment:
  - ✓ FedEx or UPS Ground
  - ✓ FedEx or UPS Second Day or Third Day
  - ✓ FedEx or UPS Next Day
  - ✓ Federal Express Priority One
  - ✓ DHL
  - ✓ Truck

Note: Unless otherwise indicated by customer, all orders are treated as "Standard Orders", and will ship within 24 hours. We will make every effort to ship "Air Shipments" the same day that the order is received, if prior to 2PM west coast time. "Stock Orders" must be so noted on fax or web forms.

Here's how to get help...

Please have the model and serial number on hand when calling.

Parts Department
800-427-1244 — Fax: 800-672-7877
310-537-3700 — Fax: 310-637-3284

Mayco Parts
800-306-2926 — Fax: 800-672-7877
310-537-3700 — Fax: 310-637-3284

Service Department
800-478-1244 — Fax: 310-537-4259
310-537-3700

MQ Power Service Department
800-835-2551 — Fax: 310-638-8046
310-537-3700

Warranty Department
800-421-1244, Ext. 279 — Fax: 310-537-1173
310-537-3700, Ext. 279

Multiquip's Main Phone Numbers
800-421-1244 — Fax: 310-537-3927
310-537-3700

Place Your Parts Order Via Web or Fax For Even More Savings!

Extra Discounts!

All parts orders which include complete part numbers and are received by our automated web parts order system, or by fax qualify for the following extra discounts:

Ordered via	Standard orders	Stock orders ($750 list and above)
Fax	3%	10%
Web	5%	10%

*Special freight allowances when you order 10 or more line items via Web or Fax!***

FedEx Ground Service ***at no charge for freight***

No other allowances on freight shipped by any other carrier.

NOTE: DISCOUNTS ARE SUBJECT TO CHANGE

MULTIQUIP INC.
18910 WILMINGTON AVENUE
POST OFFICE BOX 6254
CARSON, CALIFORNIA 90749
310-537-3700 • 800-421-1244
FAX: 310-537-3927
E-MAIL: mq@multiquip.com
WWW: multiquip.com

Direct TOLL-FREE access to our Parts Department:

Toll-free nationwide — 800-427-1244

Table 1. Specifications (Power Buggy)	
Models	WPB-16/WPB-16E
Wheelbase	44 in. (1,117.6 mm)
Overall Length	103 in. (2,616.2 mm)
Overall Width- Dual Wheels	43.25 in. (1,098.6 mm)
Maximum Weight Capacity (Dual Wheels)	2,500 lbs. (1,136 kg)
Overall Width- Single Wheel	43.25 in. (1,098.6 mm)
Maximum Weight Capacity (Single Wheel)	1,100 lbs. (499 kg)
Overall Height	53 in. (1346.2 mm)
Operating Weight	1,200 lbs. (544.2 kg.)
Ship Weight Palletized	1,260 lbs. (585 kg.)
Bucket Capacity	16 cu. ft. Water Level (.59 cu. yd.)
Drive	Hydrostatic
Speed	Up to 7.25 mph. (11.67 km/h)
Steering	Handle Bars To Rear Wheels
Brakes (Drive Wheels)	Dynamic Hydrostatic
Parking Brake (Drive Wheels)	Mechanical
Dump Control	Hydraulic Dump and Return
Discharge Height	5.0 in. (127 mm)
Ground Clearance	6.0 in. (152.4 mm)
Turning Radius	73.5 in. (1867 mm)
Tires (Drive Wheels)	5.70 x 8.0 x 19.0 in. (145 x 203 x 483 mm)
Tires (Steering)	4.80 x 8.0 in. (122 x 203 mm)

Table 2. Specifications (Engine)	
Model	GX390K1QA2 (Recoil Start) GX390K1QAE2 (Electric Start)
Bore X Stroke	3.46 x 2.51 in. (88 x 64 mm.)
Displacment	389 cc
Maximum Power	13.0 hp (3,600 rpm)
Continuous Output	9.0 hp (3,600 rpm)
Maximum Torque	19.5 ft-lbs. (2.7 kg-m) @ 2,500 rpm
Compression Ratio	8.0 : 1
Idle Speed	1,400 ± rpm
Maximum No Load RPM	3.850 ± rpm
Specific Fuel Consumption	1 gal./hr. (3.78 liters/hr.)
Fuel Tank Capacity	5.5 gal. (20.81 liters)
Crankcase Oil Capacity	1.16 qts. (1.1 liters)
Ignition Timing	BTDC25
Starting System	Recoil/Electric
Air Cleaner	Cyclone Type
Noise Level STD,OP	82.78 (S,S)
Dry Weight	68.3 lbs. (31.0 kg.)
Outside Dimensions L X W X H	15.9 x 17.7 x 17.4 (405 X 450 X 443 mm.)

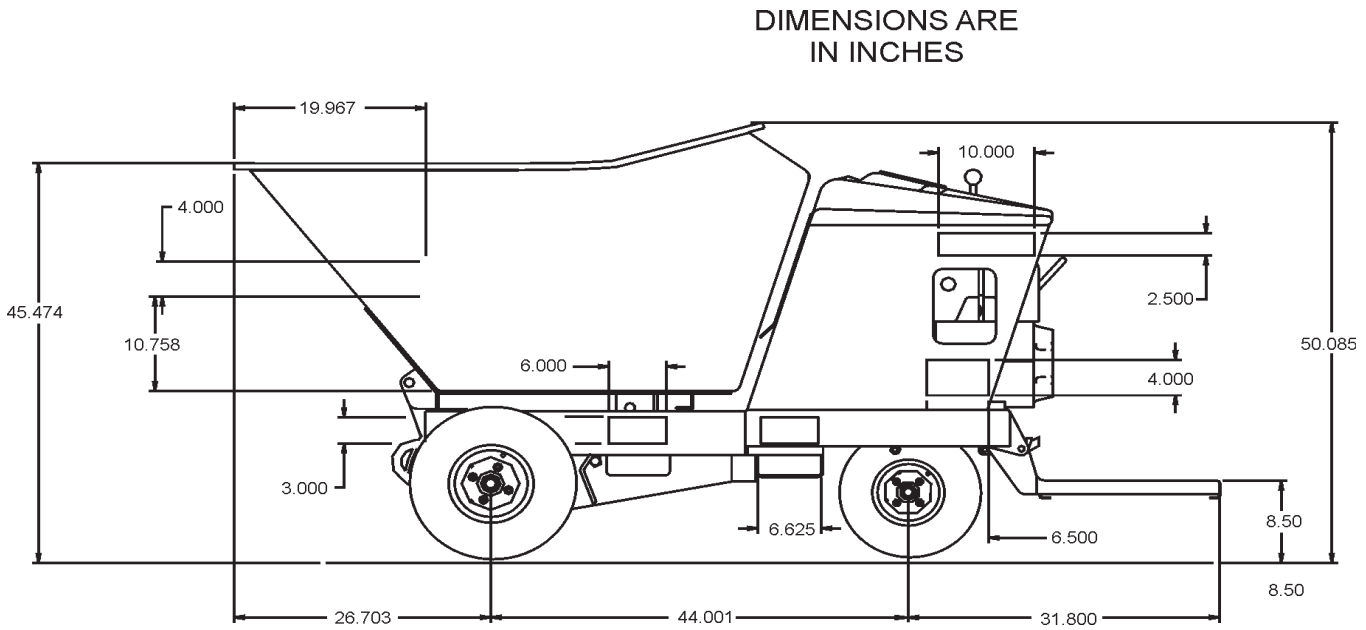


Figure 2. WPB-16 Power Buggy Dimensions (Side-View)

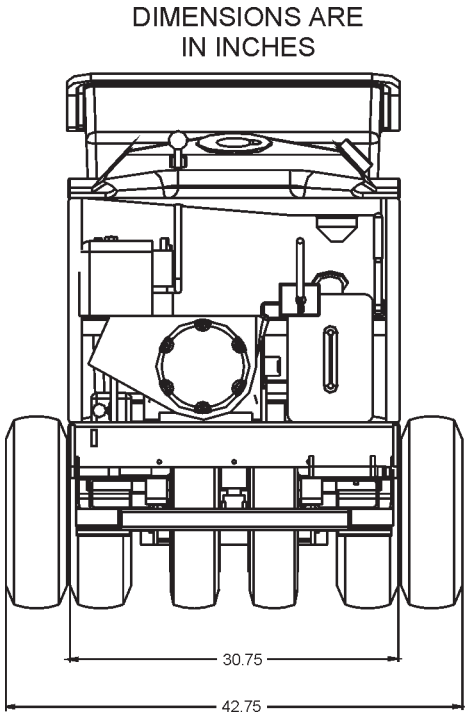


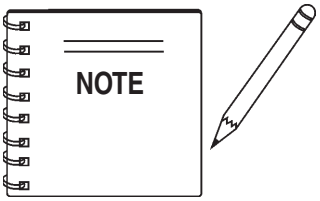
Figure 3. WPB-16 Power Buggy Dimensions (Rear-View)

NOTE PAGE

WPB-16 POWER BUGGY — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF OTHERS!

Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.



This Owner's Manual has been developed to provide complete instructions for the safe and efficient operations of the MQWhiteman Model WPB-16 Power Buggy. Depending on the engine you have selected, please refer to the engine manufacturers instructions for data relative to its safe operations.

Before using this Power Buggy, ensure that the operating individual has read and understands all instructions in this manual.

SAFETY MESSAGE ALERT SYMBOLS

The three (3) Safety Messages shown below will inform you about potential hazards that could injure you or others. The Safety Messages specifically address the level of exposure to the operator, and are preceded by one of three words: **DANGER**, **WARNING**, or **CAUTION**.

DANGER: You **WILL** be **KILLED** or SERIOUSLY injured if you do not follow directions.

WARNING: You **CAN** be **KILLED** or SERIOUSLY injured if you do not follow directions.

CAUTION: You **CAN** be injured if you do not follow directions.

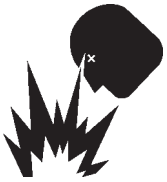
Potential hazards associated with Power Buggy operations will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

HAZARD SYMBOLS

Lethal Exhaust Gases

Engine exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled. **NEVER** operate this equipment in a confined area or enclosed structure that does not provide ample free flow air.

Explosive Fuel



Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids. **DO NOT** fill the fuel tank while the engine is running or hot. **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in well-ventilated areas and away from sparks and flames. **NEVER** use fuel as a cleaning agent.

Burn Hazards

Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operations. Never operate the engine with heat shields or heat guards removed.

Rotating Parts

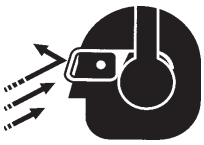
NEVER operate equipment with covers, or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.

WPB-16 POWER BUGGY — SAFETY MESSAGE ALERT SYMBOLS

Accidental Starting

ALWAYS place the engine ON/OFF switch in the OFF position, and/or disconnect the spark plug lead before servicing the engine or equipment. Ground the lead to prevent sparks that could ignite a fire.

Sight and Hearing hazard



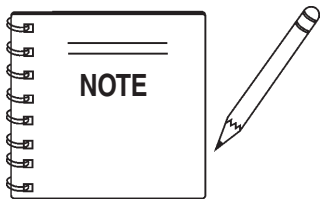
ALWAYS wear approved eye and hearing protection.

Respiratory Hazard

ALWAYS wear approved respiratory protection.

Equipment Damage Messages

Other important messages are provided throughout this manual to help prevent damage to your power buggy, other property, or the surrounding environment.



This power buggy, other property, or the surrounding environment could be damaged if you do not follow instructions.

WARNING:

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.

The following safety guidelines should always be used when operating the MQ Whiteman WPB-16 Power Buggy:

GENERAL SAFETY

■ **DO NOT** operate or service this equipment before reading this entire manual.

■ This equipment should not be operated by persons under 18 years of age.

■ **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.

■ **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.

■ **NEVER** operate this equipment under the influence or drugs or alcohol.

■ **NEVER** use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.

■ The manufacturer does not assume responsibility for any accident due to equipment modifications.

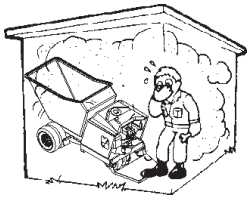
■ Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.

■ Always check the machine for loosened threads or bolts before starting.

■ **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or power buggy.

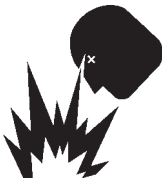
■ **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with *hot* components can cause serious burns.

■ The engine section of this power buggy requires an adequate free flow of cooling air. Never operate the power buggy in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the power buggy or engine and may cause injury to people. Remember the power buggy's engine gives off **DEADLY** carbon monoxide gas.



■ Always refuel in a well-ventilated area, away from sparks and open flames.

■ Always use extreme caution when working with **flammable** liquids. When refueling, **stop the** engine and allow it to cool. **DO NOT** smoke around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.



■ **NEVER** operate the power buggy in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe *bodily harm or even death.*

■ Topping-off to the filler port is dangerous, as it tends to spill fuel.

■ **NEVER** use fuel as a cleaning agent.

GENERAL SAFETY

- Always read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- Always be sure the operator is familiar with proper safety precautions and operating techniques before using the saw.
- Stop the engine when leaving the power buggy unattended.
- Block the unit when leaving or when using on a slope.
- Maintain this equipment in a safe operating condition at all times.
- Always stop the engine before servicing, adding fuel and oil.
- **NEVER** Run engine without air filter. Severe engine damage may occur.
- Always service air cleaner frequently to prevent carburetor malfunction.
- Always store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.
- **NEVER** use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **NEVER** operate this power buggy in areas that contain combustible material or fumes. Fire and/or explosions may result from errant sparks from the equipment.

WARNING:

- **DO NOT** operate this equipment unless all guards and safety devices are attached and in place.
- Caution must be exercised while servicing this equipment. Rotating and moving parts can cause injury if contacted.
- Keep all inexperienced and unauthorized people away from the equipment at all times.
- Unauthorized equipment modifications will void all warranties.
- Test the ***KILL*** switch before operating. The purpose of the switch is to shut down the engine in the event of an emergency.
- Test the ***engine's ON/OFF*** switch before operating. The purpose of the switch is to shut down the engine.
- If the power buggy is to be used over rough terrain, place the step plate (platform) in the upright position, and make sure that it sufficiently secure.
- **DO NOT** stand on the power buggy's "step plate" when walking in rough terrain. Walk behind the power buggy.
- **CHECK** the free speed control linkage located on the right handle bar. The ***speed control lever*** should work freely and return to the closed position if working correctly. **DO NOT** start engine unless speed control linkage is working properly.
- **CHECK** the buggy's tire pressure. Make sure that the tires are inflated to the manufactures recommended tire pressure.
- **DO NOT** operate the power buggy with bad or worn tires. Always replace defective tires with new ones.
- **ALWAYS** make sure that the power buggy's brakes are working properly.
- **ALWAYS** make sure that the power buggy's foot and hand brakes are working properly. Check brake linkage and adjust as required. Never operate the power buggy with a defective braking system.
- **NEVER** drive or tow the power buggy in traffic or on public roads.
- **CHECK** the hydraulic dumping mechanism of the tub and make sure that it is working properly.
- **NEVER** move the power buggy with the tub in the ***DUMP*** position (vertical). When traveling of the buggy is required, always leave the tub in the flat (horizontal) position.
- The entire power buggy (tub, step stand, shroud, wheels etc.) should be cleaned after every use to prevent a build up of concrete or other debris.
- Operate the controls smoothly. **DO NOT** jerk the steering or any controls.
- Avoid sudden stops, starts, turns or changes in directions.
- **NEVER** attempt to work the control except from operator's position.
- **NEVER** leave the operator's position without first setting the parking brake, and placing controls in neutral (or park).
- **DO NOT** touch, lean on or reach through the dump mechanism or permit others to do so. **HANDS OFF!** Never climb on the power buggy or dump mechanism.
- **ALWAYS** stay alert. Should something break, come loose or the equipment fail to operate, stop work, shut off the engine and inspect the power buggy.
- **ALWAYS** keep all parts of your body in the operator's position (standing on the platform) while operating the power buggy

POWER BUGGY TRANSPORTATION SAFETY

- When lifting of the power buggy is required, use a ***properly rated forklift*** to lift the power buggy. Forklift pockets are provided on the power buggy's frame. Make sure the forklift arms are insert into the power buggy's fork lift pockets a minimum of 24-inches.
- When transporting of the power buggy is required, place power buggy on a flat bed truck or equivalent and securely tie down.

Emergencies

- Always know the location of the nearest ***fire extinguisher*** and ***first aid kit.*** Know the location of the nearest telephone. Also know the phone numbers of the nearest ***ambulance***, ***doctor*** and ***fire department***. This information will be invaluable in the case of an emergency.

Maintenance Safety

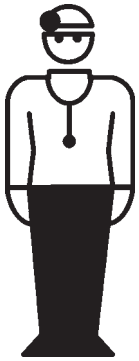
- **NEVER** lubricate components or attempt service on a running machine.
- Always allow the machine a proper amount of time to cool before servicing.
- Keep the machinery in proper running condition.
- Fix damage to the machine immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

Emergencies

- **ALWAYS** know the location of the nearest ***fire extinguisher.***

- **ALWAYS** know the location of the nearest and ***first aid kit.***

- In emergencies ***always*** know the location of the nearest phone or ***keep a phone on the job site***. Also know the phone numbers of the nearest ***ambulance***, ***doctor*** and ***fire department***. This information will be invaluable in the case of an emergency.



Machine Safety Decals

The WPB-16 Power Buggy is equipped with a number of safety decals (Figure 1). These decals are provided for operator safety and maintenance information. The illustrations below show these decals as they appear on the power buggy. Should any of these decals become unreadable, replacements can be obtained from you dealer.

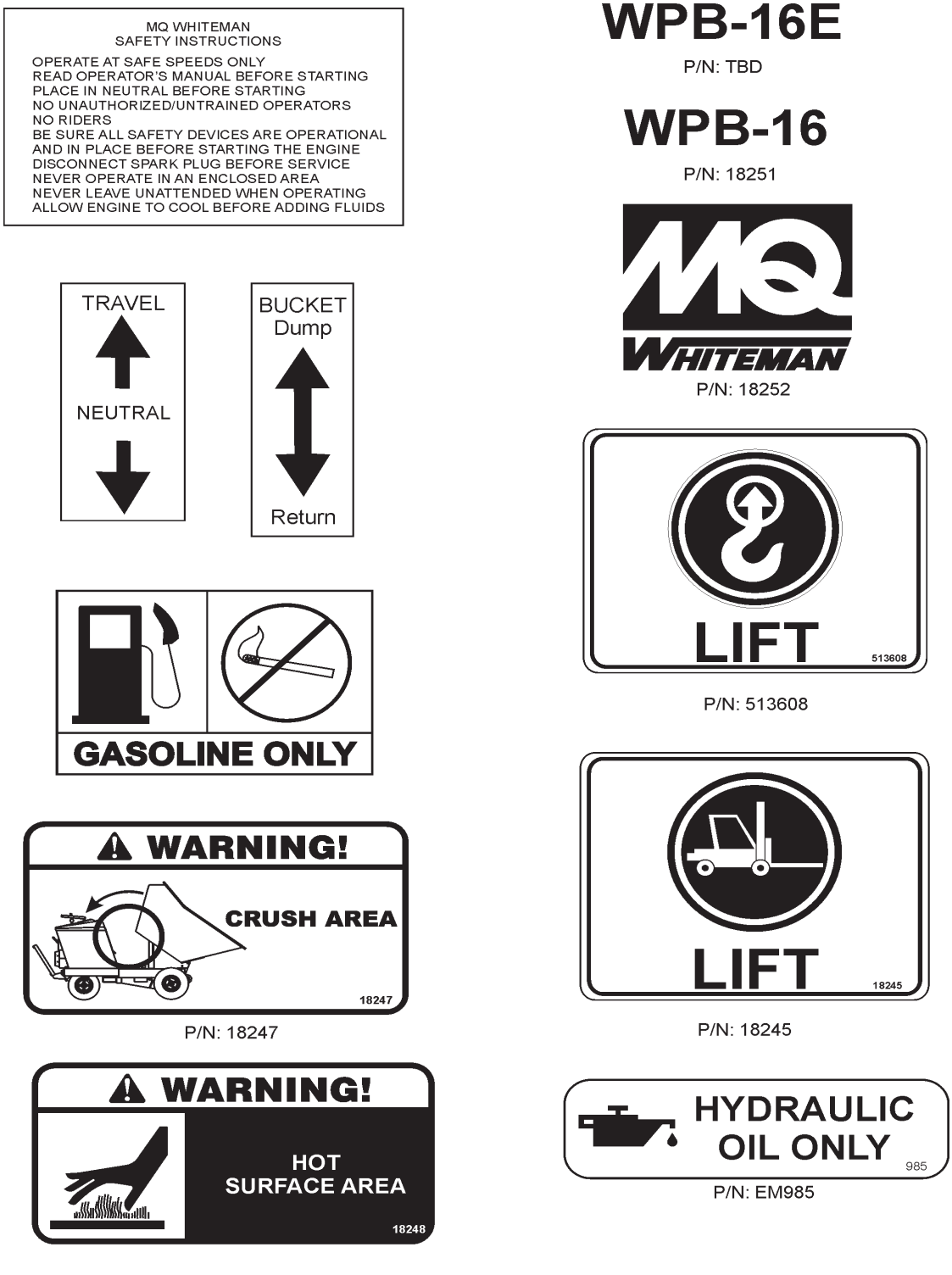
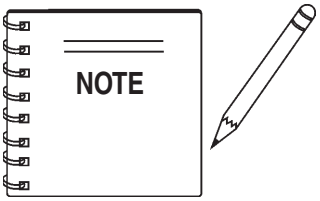


Figure 1. WPB-16 Power Buggy Decals

The MQ Whiteman Power Buggy, Model WPB-16 (recoil start) and WPB-16E (electric start) are intended for the transportation of concrete and material handling.

The power buggy is equipped with a 6-inch dump height which provides clearance and enables the operator to maneuver over any form height. In addition the power buggy has a unique tub design that reduces concrete splatter outside the polyethylene tub (bucket)

A low center of gravity has been incorporated into the power buggy's design which will provide added safety when maneuvering the buggy in tight areas. A 6-gallon fuel tank allows for extended uninterrupted use. Maximum speed of the power buggy is rated at 7.25 MPH. The maximum weight capacity of the power buggy is 2,500 lbs. (1,136 kg). The outer wheels can be removed to allow the buggy to pass a 32" door.



The maximum weight capacity drops to 1,100 lbs. (499 kg) when using single wheels on the power buggy.

Hand and foot controls are provided for ease of dumping and stopping of the power buggy. Multiple lift points have been provided on the power buggy. These lifting points allow for easy access of a forklift when lifting is required.

The power buggy is powered by an HONDA GX390K1 air cooled gasoline engine rated at 13 HP at 3600 RPM.

The engine drives an variable displacement hydrostatic transmission which is activated by a cable controlled hand lever. The hydraulic fluid flows to a divider valve which directs the fluid to the forward reverse and dumping systems.

The operator controls the forward and reverse machine travel by manually shifting the control valve which directs the hydraulic fluid flow to the two drive wheel motors. The flow to the dump cylinder is also controlled by a manually operated control valve.

This hydraulic system uses a parallel loop configuration, operating at a maximum of 1450 PSI. The system also features a neutral position which allows the power buggy to be moved in the event of an emergency.

The hydraulic oil is filtered by a screen type filter located in the hydraulic tank, then doubled filtered within the system by a 10 micron cartridge spin-on return filter.

Understand the operation and features of the power buggy and what conditions it will be operated in. Know the rated load capacity, speed range, braking and steering characteristics, turning radius and operating clearances.

Remember that the rain, snow, ice, loose gravel, soft ground, etc., can change the operating characteristics and capabilities of the power buggy.

Inspect the surface over which you will travel. Look for holes, drop offs and obstacles. Look for rough spots. Look for weak spots on docks, ramps or floor. Look for oil spills, wet spots and slippery surfaces. Look for soft soil, deep mud and standing water. Watch for anything that might make you lose control or cause the Buggy to tip over.

When transporting the power buggy on a truck or trailer, know the overall height to avoid contacting overhead obstructions such as bridges, power lines, etc. Make sure all tie-downs and blocks are in place and the bucket is completely lowered and securely latched. If the power buggy is to be hauled by truck, check the truck and ramp capacities.

DO NOT leave power buggy in the vicinity of ovens, furnaces or radiant heaters. Heat could raise the pressure of the fuel and open the relief blow-off valve, so that vented gas could ignite.

See Code of Federal Regulation's (OSHA) 29CFR Part 1910.178 to determine permissible areas where these Buggies can be operated.

This power buggy is equipped with a spark arrestor/spark arresting muffler and cannot be operated in areas with flammable or explosive atmospheres. Use of the power buggy in these areas can result in fires and/or explosions which could result in serious injury or death.

Understand the **DANGER**, **WARNING** or **CAUTION** safety signs on the power buggy. **READ** this entire manual before operating the power buggy.

WARNING:

All power buggy operators must have training/ instructions before operating power buggy. For your safety, warnings are on the buggy and in this manual. Failure to obey these warning can cause severe injury or even death..

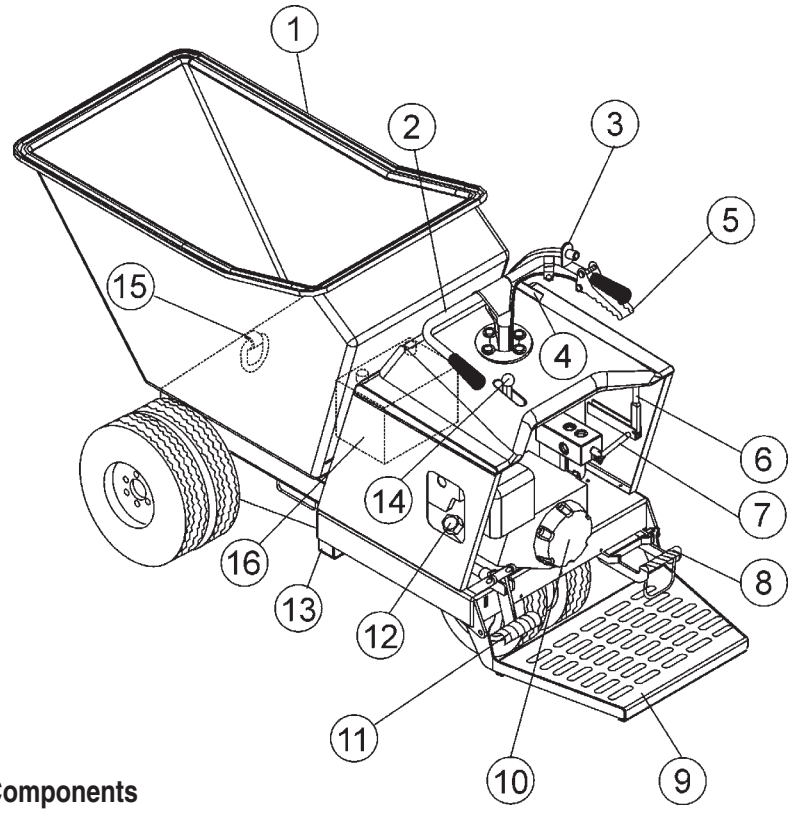


Figure 4. Power Buggy Components

1. **Tub or Bucket –** Used for the transportation of material. Tub holds approximately 16 cubic feet (.59 cubic yards) of water.
2. **Handle Bar (Steering)** - When driving the power buggy, use both hands and hold onto both handle bar grips. This handle bar is used to steer the buggy.
3. **Kill Switch –** In the event of an emergency press this button to stop the engine.
4. **Fuel Tank/Cap –** Remove this cap to add fuel. Tank holds approximately 5.5 U.S. gallons. **DO NOT** over fill.
5. **Speed Control –** Sets the power buggy's travel speed. When fully depressed, the power buggy will be at **FULL** speed. When released the power buggy will **STOP**.
6. **Parking Brake Lever –** When this lever is activated (pulled down) the parking brake will be set. To release the braking pull the lever upwards.
7. **Travel Lever –** When the travel lever is pushed forward the buggy will travel in the forward direction. Placing the travel lever in the backward position will cause the buggy to travel in the reverse direction. Center position is neutral.
8. **Brake Pedal –** Press this pedal with the right foot to stop the buggy.
9. **Operator Platform -** When the buggy is in use, the operator shall **ALWAYS** stand on this platform while holding onto the handle bar (steering).
10. **Engine -** This buggy uses either a electric or recoil start HONDA GX390K1 engine.
11. **Dump Pedal -** Use this pedal to place the tub in the dump position (vertical), press pedal a second time to return tub to the travel position (horizontal)
12. **Hydraulic Tank/Cap –** Remove this cap to add hydraulic oil. Tank holds approximately 6.0 U.S. gallons. **DO NOT** over fill.
13. **Forklift Pockets -** When lifting of the buggy is required, use these fork lift pockets to lift the power buggy. Remember to insert the forks of the fork lift a minimum of 24 inches into power buggy's fork lift pockets.
14. **Dump Control Lever -** Use this lever forward to place the tub in the dump position (vertical), move the lever backward to return the tub to travel position (horizontal)
15. **Towing Hook -** Use this hook to tow the buggy if it gets stuck. This hook is **NOT** intended for the buggy to be towed on public roads at high speeds.
16. **Battery -** Used in the ***electric-start*** power buggy (WPB-16E) only. ***ALWAYS*** use gloves and eye protection whe handling the battery.

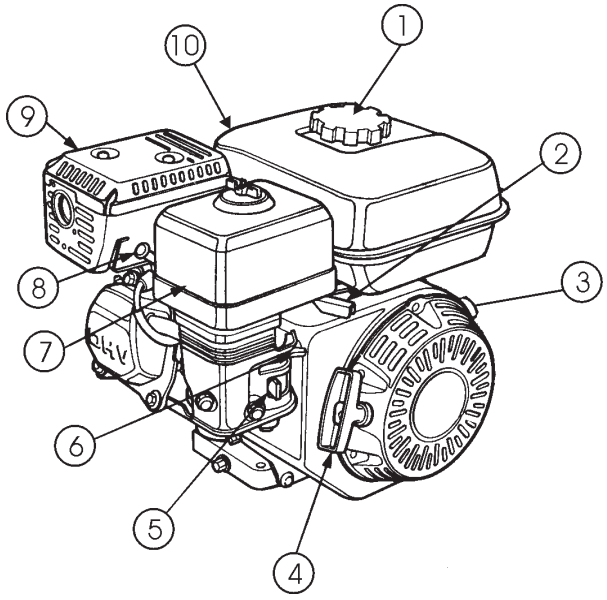


Figure 5. Engine Controls and Components

INITIAL SERVICING

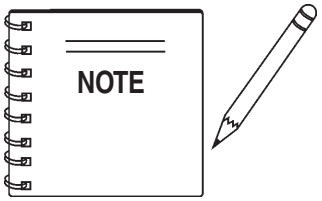
The engine (Figure 5) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturers Engine manual for instructions & details of operation and servicing.

1. **Fuel Filler Cap –** Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.

WARNING

Adding fuel to the tank should be accomplished only when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until the fuel residue has been completely wiped up, and the area surrounding the engine is dry.

2. **Throttle Lever –** Used to adjust engine RPM speed (lever advanced forward ***SLOW***, lever back toward operator ***FAST***).
3. **Engine ON/OFF Switch – ON** position permits engine starting, **OFF** position stops engine operations.
4. **Recoil Starter (pull rope) –** Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
5. **Fuel Valve Lever – OPEN** to let fuel flow, **CLOSE** to stop the flow of fuel.
6. **Choke Lever –** Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
7. **Air Cleaner –** Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter cannister to gain access to filter element.



Operating the engine without an air filter, with a damaged air filter, or a filter in need of replacement will allow dirt to enter the engine, causing rapid engine wear.

8. **Spark Plug –** Provides spark to the ignition system. Set spark plug gap to 0.6 - 0.7 mm (0.028 - 0.031 inch) Clean spark plug once a week.
9. **Muffler –** Used to reduce noise and emissions.

WARNING

Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operating. **NEVER** operate the engine with the muffler removed.

10. **Fuel Tank –** Holds unleaded gasoline. For additional information refer to engine owner's manual.

Before Starting

1. Read safety instructions at the beginning of manual.
2. Clean the **POWER BUGGY**, removing dirt and dust, particularly the engine cooling air inlet, carburetor and air cleaner.
3. Check the air filter for dirt and dust. If air filter is dirty, replace air filter with a new one as required.
4. Check carburetor for external dirt and dust. Clean with dry compressed air.
5. Check fastening nuts and bolts for tightness.

Engine Oil Check

1. To check the engine oil level, place the saw on secure level ground with the engine stopped, and the diamond blade removed.
2. Remove the filler cap/dipstick from the engine oil filler hole (Figure 6) and wipe it clean.

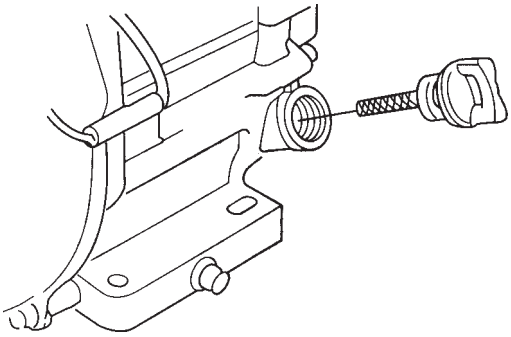
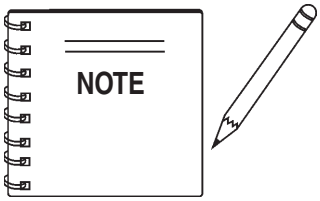


Figure 6. Engine Oil Dipstick (Removal)

3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the oil level is low (Figure 7), fill to the edge of the oil filler hole with the recommended oil type (Table 3). Maximum oil capacity is 400 cc.



Reference manufacturer engine manual for specific servicing instructions.

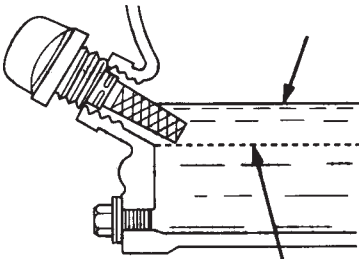
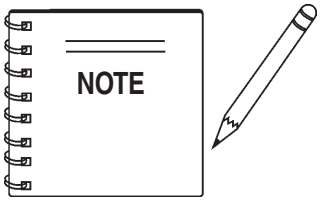


Figure 7. Engine Oil Dipstick (Oil Level)

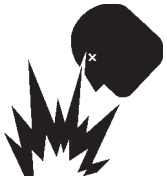


The HONDA GX390K1 has an Oil Alert System. This system will automatically stop the in the event of low oil level. ALWAYS be sure to check the engine oil level prior to starting the engine.

TABLE 3. OIL TYPE

Season	Temperature	Oil Type
Summer	25°C or Higher	SAE 10W-30
Spring/Fall	25°C~10°C	SAE 10W-30/20
Winter	0°C or Lower	SAE 10W-10

Explosive Fuel



Gasoline Check

1. Remove the gasoline cap (Figure 8) located on top of fuel tank.
2. Visually inspect to see if fuel level is low. If fuel is low, replenish with unleaded fuel.
3. When refueling, be sure to use a strainer for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel.

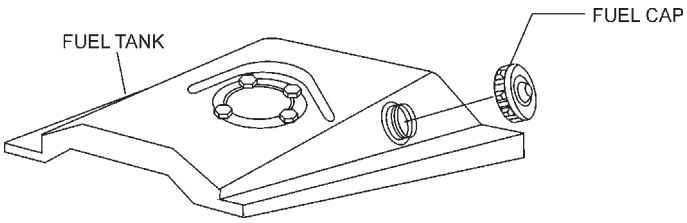


Figure 8. Fuel Tank/Cap

Tire Pressure Check

The wheels and tires of the power buggy are very important to its effective operation. Check the tires regularly to make certain the lugs nuts are tight and the tires are inflated to manufactures suggested tire pressure. **DO NOT** operate the power buggy with bad or worn tires.

Parking Brake Check

Check the power buggy's brakes as outline in the maintenance section of this manual.

Linkage Check

Check and make sure that all the linkage within the power buggy is functioning correctly.

Steering Check

Check and make sure that the power buggy's steering turns freely and that there is no binding. Make sure that the zerk fitting for the steering has been lubricated.

Dump Cylinder Check

Check the power buggy's dump cylinder as outline in the operation section of this manual. Make sure that both zerk fittings for the dump cylinder have been lubricated.

Hydraulic Oil Check

1. Visually read the hydraulic sight glass (Figure 9) to see if the hydraulic oil level is low. If the hydraulic oil is low, add enough hydraulic oil to bring oil level to a normal safe operating level.

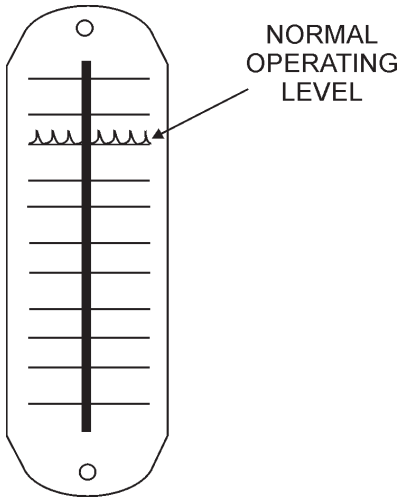


Figure 9. Engine Oil Dipstick (Removal)

STARTING THE ENGINE

The engine can be started by motor (electric) or manually (recoil). Refer to Figures 4 and 5 for the location of controls and components.

CAUTION:

DO NOT attempt to operate the power buggy until the Safety, General Information and Inspection sections have been read and understood. The following start-up procedure makes reference to a **HONDA** engine.

CAUTION:

When the engine is running, **NEVER** turn the starter key to the **START** position

Electric Start (WPB-16E Models ONLY)

1. Place the engine *fuel valve lever* (Figure 10) to the **ON** position.

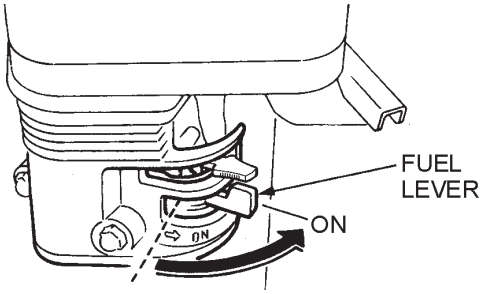


Figure 10. Engine Fuel Valve Lever (ON Position)

3. Place the ***choke lever*** (Figure 11) in the **OPEN** position if starting a ***cold*** engine.

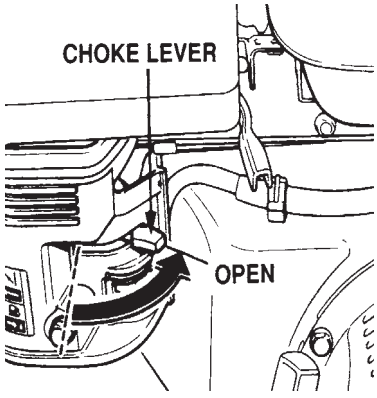


Figure 11. Engine Choke Lever (Open)

4. Place the ***choke lever*** (Figure 12) in the **CLOSED** position if starting a ***warm engine*** or the ***temperature is warm.***

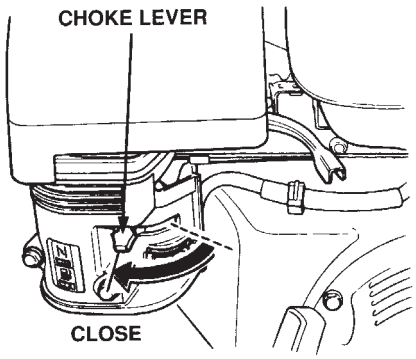


Figure 12. Engine Choke Lever (Closed)

4. Place the ***throttle lever*** (Figure 13) halfway between ***FAST*** and ***SLOW*** for starting.

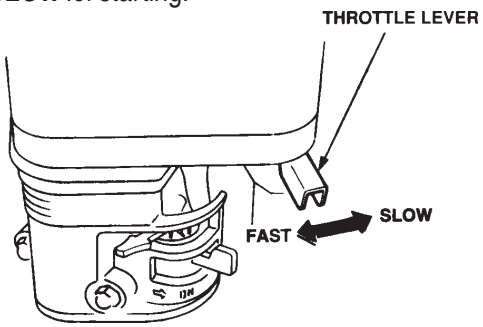


Figure 13. Throttle Lever

5. Place the ***engine ON/OFF switch*** (Figure 13) in the **ON** position.

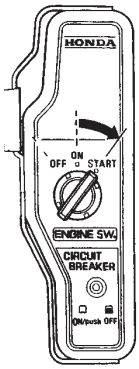


Figure 13. Engine ON/OFF Switch (ON Position)

7. If the engine has started, slowly return the choke lever (Figure 17) to the **CLOSED** position. If the engine has not started repeat steps 1 through 6.
8. Place the ***throttle lever*** (Figure 13) in the **FAST** position. **DO NOT** operate the power buggy with the ***throttle lever*** in the half-way position. Always operate the power buggy with the throttle lever in the **FAST** position
9. Before the buggy is placed into operation, run the engine for several minutes. Check for fuel leaks, and noises that would associate with a loose guard and/or covers.

Recoil Start (All Models)

1. Follow steps 1 through 4 of the Electric start procedure on page 21.

2. Place the ***Engine ON/OFF switch*** (Figure 14) in the **ON** position.

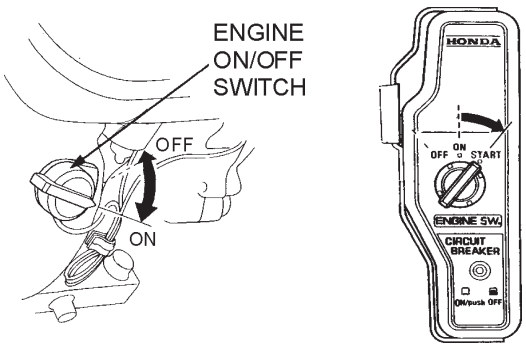


Figure 14. Engine ON/Off Switch

3. Grasp the ***starter grip*** (Figure 15) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Pull the starter grip briskly and smoothly for starting.

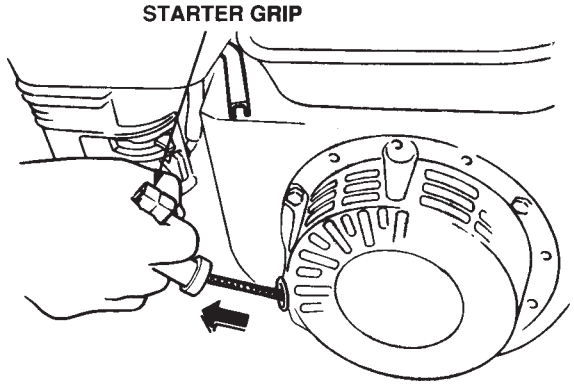


Figure 15. Starter Grip

CAUTION:

- **DO NOT** pull the starter rope all the way to the end.
- **DO NOT** release the starter rope after pulling. Allow it to rewind as soon as possible.

6. If the engine has started, slowly return the choke lever (Figure 12) to the **CLOSED** position. If the engine has not started repeat steps 1 through 3.

7. Place the ***throttle lever*** (Figure 13) in the **FAST** position. **DO NOT** operate the power buggy with the throttle lever in the half-way position. Always operate the power buggy with the throttle lever in the **FAST** position

8. Before the buggy is placed into operation, run the engine for several minutes. Check for fuel leaks, and noises that would associate with a loose guard and/or covers.

Shutdown Procedure (Normal)

Correct shutdown is important to safe operation. Follow these general steps:

1. Come to a **FULL** stop.
2. Engage the ***parking brake*** (Figure 16).
3. Place the ***throttle lever*** (Figure 11) in the **SLOW** position. Idle engine 3-5 minutes for gradual cooling.
4. Turn the ***igition switch*** (Figure 12) to the **OFF** position to shut-down the engine.
5. Cycle hydraulic controls to eliminate residual pressure.
6. Remove ***ignition key*** on electric start models.
7. Block wheels if on a slope or incline.

Emergency Shut-down Procedure

1. The Whiteman Ride-On Power Buggy is equipped with a safety ***kill switch***. This switch is located on the handle bar assembly (see Figure 15).
2. Place the ***throttle lever*** (Figure 13) in the **SLOW** position, and listen for the engine speed to decrease.
3. Engage the ***parking brake***.
4. Press the power buggy's ***kill switch*** (Figure 15) and listen for the engine to stop.

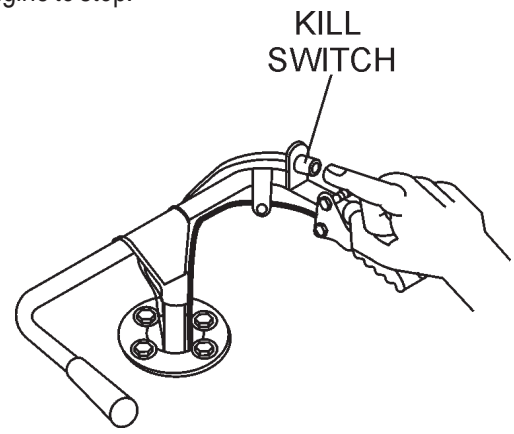


Figure 15. Engine Kill Switch

5. Place the engine ***ON/OFF switch*** (Figure 11) in the **OFF** position.
6. Place the ***fuel valve lever*** (Figure 10) in the **OFF** position.

CAUTION:

NEVER disable or disconnect the kill switch. It is provided for the **operator's safety** and injury may result if it is disabled, disconnected or improperly maintained.

Power Buggy Operation

Checking The Work Area

Inspect the surface over which you will travel. Look for holes, drop-offs and obstacles. Look for rough spots. Look for weak spots on docks, ramps or floor. Look for oil spills, wet spots and slippery surfaces. Look for soft soil, deep mud and standing water. Watch for anything that might make you lose control or cause the Buggy to tip over.

Clear away trash and debris. Pick up anything that might puncture the tires. Make sure aisles, ramps, doorways and passages are clear. Plan your work. Make sure you know where you will make your pickups, dumps and turns. Before you take a load, know where you will place it.

Checking Overhead Obstacles

Check the clearances of doorways, canopies and overheads. Know exactly how much clearance you have under power and telephone cables. Also check clearances when transporting the power buggy on a truck or trailer.

WARNING:

NEVER approach ***power lines*** with any part of the buggy unless all local, state/provincial and federal (OSHA) required safety precautions have been taken. Use extreme **CAUTION!** when approaching high voltage power lines.

Hauling Capacities

Know the rated load capacities of your power buggy and never exceed them. **ALWAYS** refer to buggy's rated hauling capacity before loading.
Keep in mind that power buggy will normally operate on uneven, unpaved and often very bumpy or inclined surfaces. Operating conditions can reduce the amount that should be carried. **ALWAYS** exercise extreme caution when hauling to avoid tipping of the power buggy.

Loading

If possible, plan to load, unload and turn of flat level ground. When you travel with a load, keep the speed reasonable for the load and the terrain to be traveled. The power buggy is less stable when traveling with a load.

WARNING

- Avoid sharp turns at high speed.
- If you cannot see where you are going, get someone to direct you
- Watch out for hazardous working conditions. It is you responsibility to evaluate working conditions, and adjust your work operation accordingly to prevent accidents.
- When travelling over soft ground or wet/icy surfaces, slow down.
- Travel only at speeds that permit stopping in a safe manner.
- This is a one-person power buggy. **NEVER** permit additional riders to stand on the platform or ride inside the tub.

Transporting

When transporting the Buggy on a truck or trailer, know the overall height to avoid contacting overhead obstructions such as bridges, power lines, etc. Make sure all tie-downs and block are in place and the bucket is completely lowered and securely latched. If you Buggy is to be hauled by truck, check the truck and ramp capacities.

Parking

Park your Buggy in a designated area or out-of traffic preferably on level ground.
If parking on a slope or incline, position the power buggy at right angles to the slope, set the parking brake, and block the wheels, if required.

Power Buggy Operation

WARNING:

Operator must ***ALWAYS*** wear the appropriate protective equipment and clothing while operating the power buggy.

Pre-Check

1. Engage the ***parking brake lever*** (Figure 16) and attempt to rock the buggy back and forth. If the wheels turn during the rocking motion adjust the brakes as outlined in the maintenance section of this manual.

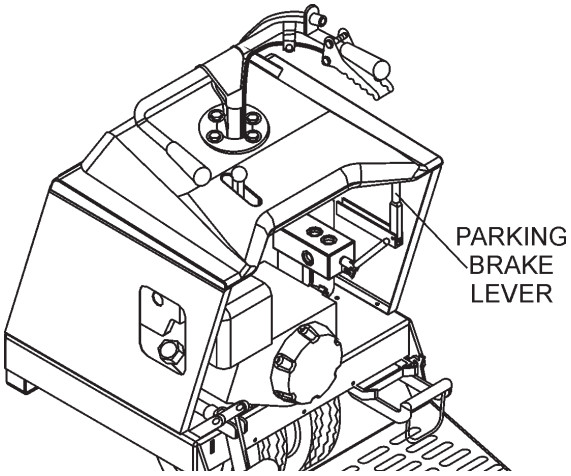


Figure 16. Parking Brake Lever

2. Place the ***engine's throttle control*** (Figure 13) in the **SLOW** (idle) position.

3. Check the ***speed control linkage*** (Figure 17) located on the right side of the handle bar. The speed control should work freely when squeezed by hand, and return to the closed position when released.

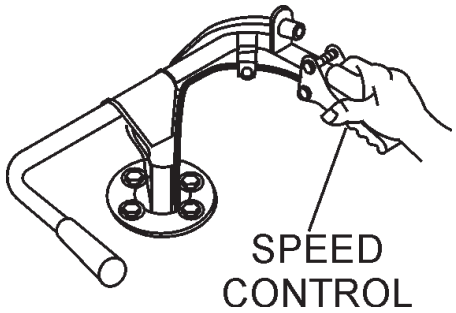


Figure 17. Speed Control Lever/Linkage

Operation

Parking Brake/Direction Lever

Before the power buggy can be put into operational use, it is best to perform a test run to make certain that all components are functioning properly.

1. Place the power buggy on flat solid ground.

2. Set the parking brake lever.

3. Place the ***engine's throttle control*** (Figure 13) in the **SLOW** (idle) position.

4. Place the power buggy's ***direction lever*** (Figure 18) in the **FORWARD** direction.

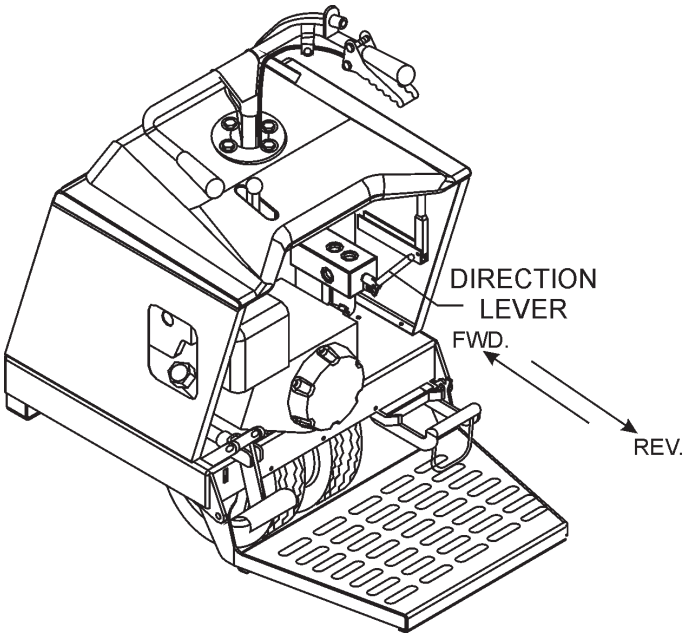


Figure 18. Direction Lever

5. Slowly squeeze the speed control lever (Figure 17)slightly, for a short period of time to test the brake holding capacity. If the power buggy moves forward, adjust the brakes as outlined in the maintenance section of this manual.

6. If the power buggy does not move forward, release the speed control, and disengage the parking brake. If the power buggy creeps forward while the parking brake is disengaged, adjust the ***pump control lever stop*** until the creeping is eliminated.

Brakes

1. With the engine running and parking brake released, place the ***direction lever*** (Figure 18) in the **FORWARD** direction.
2. Squeeze the ***speed control lever*** (Figure 17) slightly until the power buggy begins to move in a forward direction. Let the buggy travel at about 3 MPH.
3. With the right foot, step up and place it on the ***brake pedal*** (Figure 19). Gradually apply pressure to the brake pedal until the buggy comes to rest.

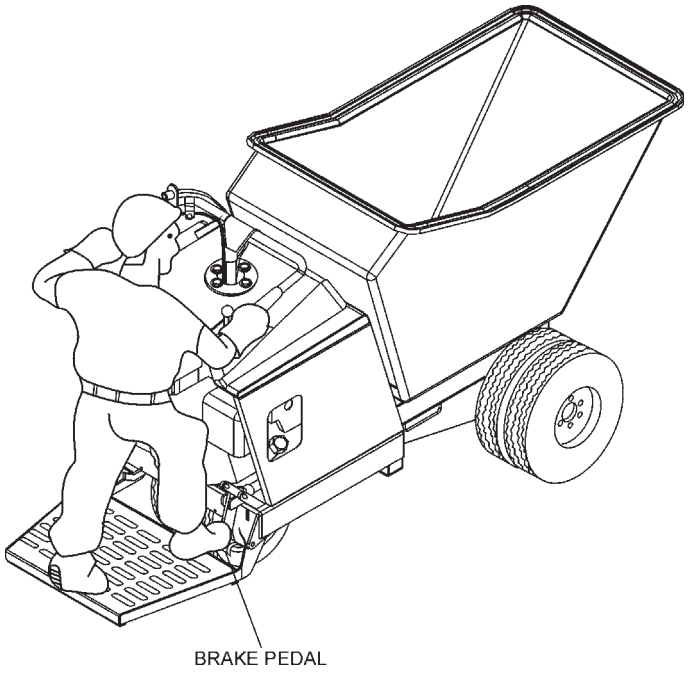


Figure 19. Brake Foot Pedal

4. Try step 3 at different speeds until you are comfortable with stopping the power buggy. If the brakes do not seem to stop the power buggy adequately, refer to the maintenance section of this manual for brake adjustment instructions.

Tub (Bucket) Dumping

The hydraulic dump bucket can be controlled by a hand lever or foot pedal.

1. To activated the hydraulic dump, press down on the ***dump foot pedal*** (Figure 20) or move the ***dump control lever*** to the **FORWARD** position. The tub will move to the vertical position as long as the lever is held in the forward position or pressure is continuously applied to the dump foot pedal.

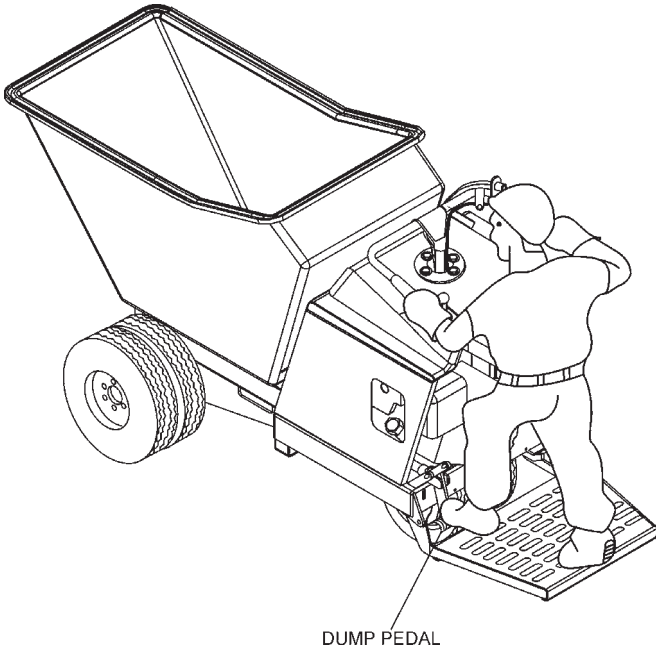
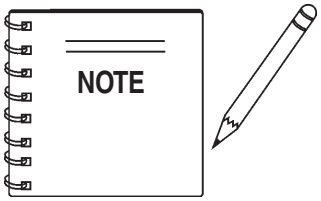


Figure 20. Dump Bucket Foot Pedal



Remember when dumping, keep the dump hand lever pushed forward or keep your foot pressed down on the dump foot pedal.

Releasing either one (lever or pedal) will cause the dump cylinder to return to the horizontal position.

2. To return the tub to its horizontal position, simply release the dump control lever or remove your foot from the dump pedal.

WARNING:

When traveling on inclines (Figure 21), slopes, ramps and downgrades exercise extreme caution. **ALWAYS** make sure you can see the dump site.

Be sure the landing point you intend to use can safely support the load. This may not always be true in the case of scaffolds or hallow floors. If there is any question of overloading, separate the load into two or more loads.

Always use a signal person if you cannot see the placement point. Use caution when placing or travelling near overhead electrical power lines. Water pipes, sprinklers, steam pipes, walkways or other potential hazards. Avoid weakened or incomplete scaffolding. Stay off structurally damaged floors, dock boards and ramps.

Shut-Down

Correct shutdown is important to safe operation. Follow these general steps:

1. Come to a full stop.
2. Set parking brake.
3. Idle engine for gradual cooling.
4. Shut off engine.
5. Cycle hydraulic controls to eliminate residual pressure.
6. Remove ignition key on electric start models.
7. Block wheels if on a slope or incline.

Clean-up

Keep work surfaces and engine compartments clean. Clean steps, pedals and floor. Remove any grease or oil. Brush away dirt or mud. During winter conditions, scrape away snow and ice. Remember, slippery surfaces can be hazardous.

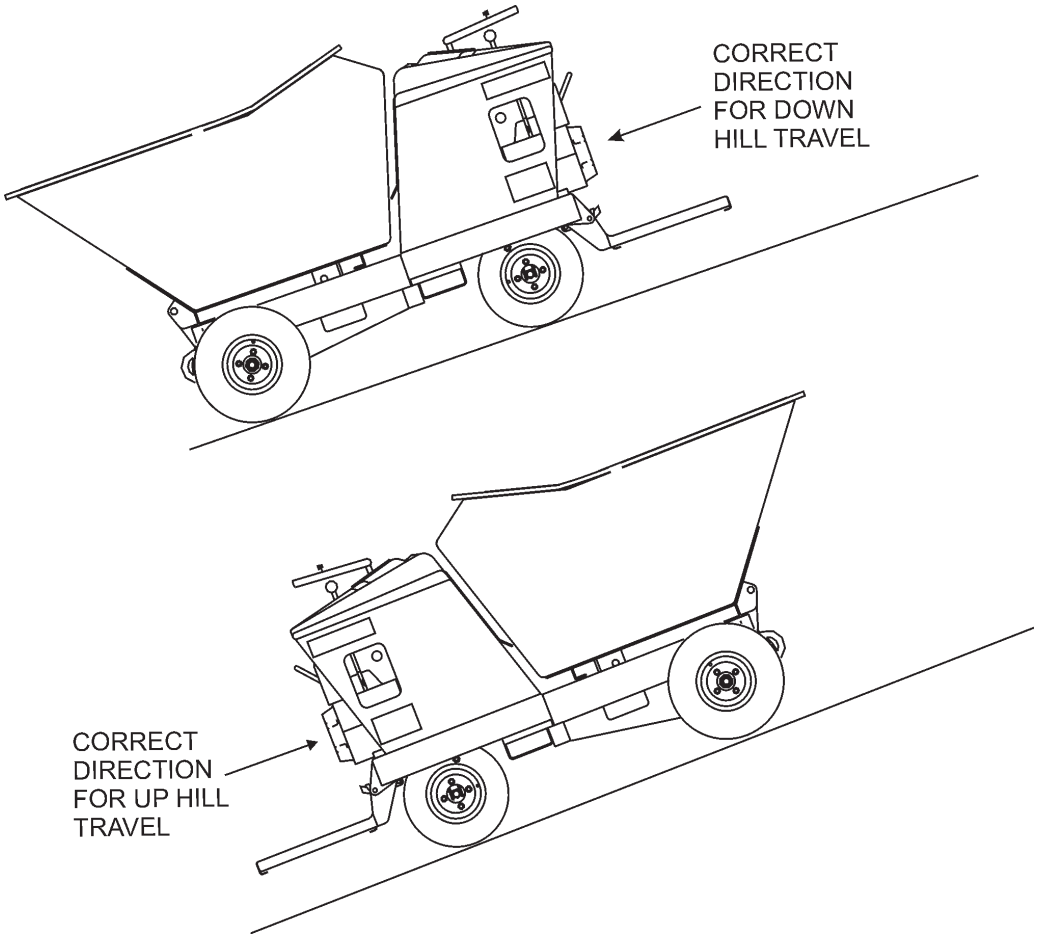


Figure 21. Power Buggy Incline Direction

Engine

Refer to the **HONDA** engine owner's operating manual for specific information.

Check engine oil after every 10 hours of operation and maintain proper levels.

Drain oil after every 50 hours of operation and refill with grade of oil recommended below:
Above 40° F. (13°C.) - S.A.E. 30
Below 40°F. (13°C.) - S.A.E. 20

Adding Hydraulic Oil

Check the hydraulic oil level in the hydraulic oil tank, by reading the hydraulic oil sight glass mounted on the hydraulic oil tank. If the hydraulic oil level is low fill to the proper level with MOBIL 300, GM DEXTRON B, FORD M2C-33F, FORD M2C41A hydraulic oil or equivalent.

1. To gain access to the hydraulic oil filler hole (Figure 22), the dump tub (bucket) must be put in the **DUMP** position (vertical). Start the engine as outlined in the starting procedure, then place the tub in the dumping position.

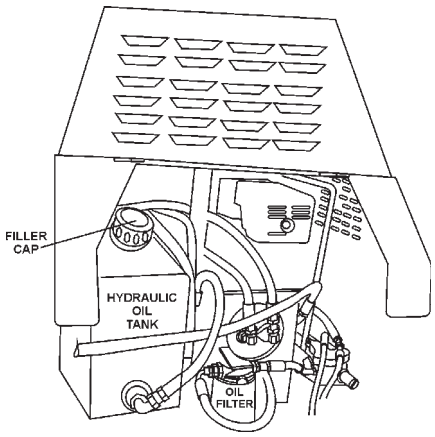
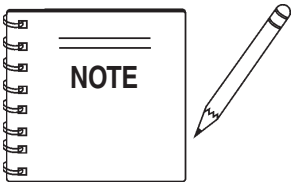


Figure 22. Hydraulic Oil Tank/Cap

2. Use the tub support rod to support the tub, then turn the engine **OFF**. Remove the hydraulic oil filler cap, and add hydraulic oil as required. Fill to the normal operating mark as indicated on the hydraulic oil sight gauge.



In climates where temperatures are below 35 degrees hard starting may occur. In these cases the hydraulic oil should be switched to a thinner 15 weight hydraulic fluid.

Replace hydraulic oil after every 200 hours of operation. The hydraulic oil filter should be changed each time the hydraulic oil is changed.

Hydraulic Drive Motors

The hydraulic drive motors are extremely reliable and will not need maintenance or repair under normal conditions. Should any problems develop with the hydraulic drive motors, contact Multiquip's service department.

Brake Adjustment

Brake adjustment can be made on the brake linkage rod located on the right-side of the buggy. Place the parking brake lever in the engaged position. The parking brake should be adjusted so that the power buggy will not move.

Adjustment is provided by a know at the end of the parking brake lever, and the adjustment may be tightened by turning the knob counter-clockwise.

Adjust sufficiently tight so that when the parking brake lever is actuated, considerable pressure is required to place it in the over center or **ON** position. With the parking brake engaged, the power buggy should not move when the engine is started and the travel lever pushed forward.

Chassis Lubrication

The power buggy is equipped with zerk fittings, lubricate these zerk fittings each day before operating the power buggy with high grade chassis lubricant at all lubricating points listed below:

- Dump Cylinder Pivots - two zerk fittings
- Tub Bearing Pivot Blocks (underside of tub)- four zerk fittings.
- Steering Bearing Flange (Front side of handle bar) - 0ne zerk fitting.
- Remove rear wheel hubs and repack bearings after every 400 hours of operation.

Tires/Wheels/Lug Nuts

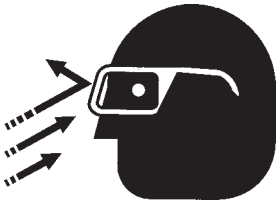
Tires and wheels are a very important and critical components of the trailer. When specifying or replacing the trailer wheels it is important the wheels, tires, and axle are properly matched.

CAUTION:

DO NOT attempt to repair or modify a wheel. **DO NOT** install an inter-tube to correct a leak through the rim. If the rim is cracked, the air pressure in the inter-tube may cause pieces of the rim to explode (break-off) with great force and can cause serious eye or bodily injury.

Tires Wear/Inflation

Tire inflation pressure is the most important factor in tire life. Pressure should be checked cold before operation.



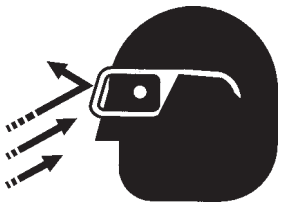
DO NOT bleed air from tires when they are hot. Check inflation pressure weekly during use to insure the maximum tire life and tread wear.

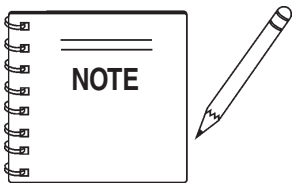
Table 4 (Tire Wear Troubleshooting) will help pinpoint the causes and solutions of tire wear problems.

TABLE 4. TIRE WEAR TROUBLESHOOTING

WEAR PATTERN		CAUSE	SOLUTION
	Center Wear	Over Inflation	Adjust pressure to particular load per tire manufacturer.
	Edge Wear	Under Inflation	Adjust pressure to particular load per tire manufacturer.
	Side Wear	Loss of chamber or overloading.	Make sure load does not exceed axle rating. Align wheels.
	Toe Wear	Incorrect toe-in	Align wheels.
	Cupping	Out-of balance	Check bearing adjustment and balance tires.
	Flat Spots	Wheel lockup & tire skidding.	Avoid sudden stops when possible and adjust brakes.

CAUTION:





ALWAYS wear safety glasses when removing or installing force fitted parts. Failure to comply may result in serious injury.

Lug Nut Torque Requirements

It is extremely important to apply and maintain proper wheel mounting torque on the trailer. Be sure to use only the fasteners matched to the cone angle of the wheel. Proper procedure for attachment of the wheels is as follows:

1. Start all wheel lug nuts by hand.
2. Torque all lug nuts in sequence. See Figure 23. **DO NOT** torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 5.

TABLE 5. TIRE TORQUE REQUIREMENTS

Wheel Size	First Pass FT-LBS	Second Pass FT-LBS	Third Pass FT-LBS
480 x 8 in.	20-25	35-40	50-65

3. After first road use, retorque all lug nuts in sequence (Figure 23). Check all wheel lug nuts periodically.

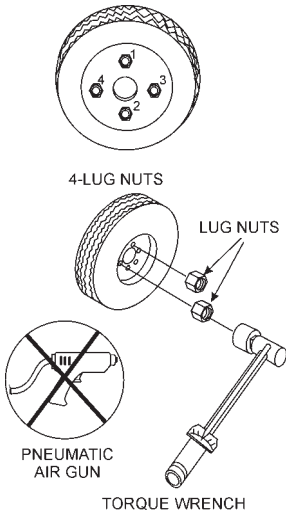


Figure 23. Lug Nut Torque Sequence

TABLE 6. ENGINE TROUBLESHOOTING

SYMPTON	POSSIBLE CAUSE	SOLUTION
Difficult to start, "fuel is available, but no SPARK at spark plug".	Spark plug bridging?	Check gap, insulation or replace spark plug.
	Carbon deposit on spark plug?	Clean or replace spark plug.
	Short circuit due to deficient spark plug insulation?	Check spark plug insulation, replace if worn.
	Improper spark plug gap?	Set to proper gap.
Difficult to start, "fuel is available, and SPARK is present at the spark plug".	Console or engine ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap, points dirtry?	Set correct spark gap and clean points.
	Condenser insulation worn or short circuiting?	Replace condenser.
	Spark plug wire broken or short circuiting?	Replace defective spark plug wiring.
Difficult to start, "fuel is available, spark is present and compression is normal"	Wrong fuel type?	Flush fuel system, and replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
Difficult to start, "fuel is available, spark is present and compression is low"	Suction/exhaust valve stuck or protruded?	Re-seat valves.
	Piston ring and/or cylinder worn?	Replace piston rings and or piston.
	Cylinder head and/or spark plug not tightened properly?	Torque cylinder head bolts and spark plug.
	Head gasket and/or spark plug gasket damaged?	Replace head and spark plug gaskets.
No fuel present at carburetor.	Fuel not available in fuel tank?	Fill with correct type of fuel.
	Fuel cock does not open properly?	Apply lubricant to loosen fuel cock lever, replace if necessary.
	Fuel filter clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

TABLE 6. ENGINE TROUBLESHOOTING (CONTINUED)		
SYMPTON	**POSSIBLE CAUSE**	**SOLUTION**
"Weak in power" compression is proper and does not misfire.	Air cleaner not clean?	Clean or replace air cleaner
	Improper level in carburetor?	Check float adjustment, re-build carbureator.
	Defective Spark plug?	Clean or replace spark plug.
	Defective Spark plug?	
"Weak in power" compression is proper but misfires.	Water in fuel system?	Flush fuel system, and replace with correct type of fuel.
	Dirty spark plug?	Clean or replace spark plug.
	Ignition coil defective?	Replace ignition coil.
Engine overheats.	Spark plug heat value improper?	Replace with correct type of spark plug.
	Correct type of fuel?	Replace with correct type of fuel
	Cooling fins dirty?	Clean cooling fins.
Rotational speed fluctuates.	Governor adjusted correctly?	Adjust governor.
	Governor spring defective?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunction.	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Sprial spring loose?	Replace sprial spring.

TABLE 7. POWER BUGGY TROUBLESHOOTING

SYMPTOM	POSSIBLE PROBLEM	SOLUTION
Loss of power.	Speed control cable out of adjustment?	Adjust speed control cable. Replace cable if necessary
	Hydraulic oil level low.?	Check hydraulic oil level. Add oil if necessary.
	Contaminated hydraulic oil filter?	Replace hydraulic oil filter.
	Low engine RPM?	Check engine speed.
Loss of travel.	Forward/Reverse lever in neutral position?	Place lever in either forward or reverse position. Check hydraulic motors.
	Parking brake partially engaged?	Release parking brake.
System operating hot.	Hydraulic oil level low?	Check hydraulic oil level add hydraulic oil if necessary.
	Defective cooling fan?	Inspect cooling fan, replace if necessary.
Slow Dumping.	Low engine speed?	Check engine speed. Adjust engine speed if necessar.y
	Dump cylinder is internally by-passing oil?	Replace dump cylinder.
System jerky when started.	Speed cable out of adjustment?	Adjust speed control cable.
	Defective drive motors?	Check drive motors, replace if necessary.
Difficult to steer.	Un-lubricated steering column?	Lubricate steering column.
Parking brake will not hold.	Brake linkage out of adjustment?.	Adjust parking brake linkage.
Difficulty in stopping.	Brakes out of adjustment?	Brake lining worn. Replace brake lining.
Engine will not start.	Low on fuel or fuel tank empty?	Add fuel.
	Defective Kill Switch?	Check electrical kill switch. Replace if necessary
	Engine ON/OFF switch in OFF position?	Set engine ON/OFF switch to ON position.
	Fuel Shut-off valve CLOSED?	Open Fuel shut-off valve.

NOTE PAGE

OPERATION MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

PARTS DEPARTMENT

800-427-1244 or 310-537-3700
FAX: 800-672-7877 or 310-637-3284

SERVICE DEPARTMENT

800-421-1244
FAX: 310- 537-4259

TECHNICAL ASSISTANCE

800-478-1244
FAX: 310- 631-5032

WARRANTY DEPARTMENT

888-661-4279, or 310-661-4279
FAX: 310- 537-1173

MULTIQUIP INC.
POST OFFICE BOX 6254
CARSON, CA 90749
310-537-3700 • 800-421-1244
FAX: 310-537-3927
E-MAIL: mq@multiquip.com
WWW: multiquip.com

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