

# OPERATION AND PARTS MANUAL



 **WHITEMAN** SERIES

**MODELS**

**WBH-16**

**WBH-16E**

**WBH-16F**

**WBH-16EF**

**POWER BUGGY**

(HONDA GX390RT2QTT RECOIL START  
GX390RT2QNB2 ELECTRIC START GASOLINE ENGINES)

Revision #2 (09/12/19)



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

# PARTS FINDER

**Search Website  
by Part Number**



**Search Manual  
Library For Parts  
Manual & Lookup Part  
Numbers – Purchase  
or Request Quote**

**Search Manuals**

Enter your information to help us find the right parts manual for your machine.

\* Brand:

\* Model:

\* Serial:

\* Part Number:

SEARCH

**Can't Find Part or  
Manual? Request Help  
by Manufacturer,  
Model & Description**

**Parts Order Form**

Please fill in the following information to help us find the right part for your machine.

Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Description:	<input type="text"/>
Part Number:	<input type="text"/>
Quantity:	<input type="text"/>
Notes:	<input type="text"/>

Submit

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

**Need parts?**

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar

# PROPOSITION 65 WARNING

---



Go to Discount-Equipment.com to order your parts

# TABLE OF CONTENTS

## WBH-16 Series Power Buggy

Proposition 65 Warning .....	2
Table of Contents.....	3
Safety Information .....	4–10
Specifications (Buggy).....	11
Specifications (Engine).....	12
Dimensions.....	13
General Information.....	14
Components .....	15
Engine Components .....	16
Inspection .....	17–19
Operation.....	20–26
Maintenance .....	27–34
Troubleshooting .....	35–37
Hydraulic System Diagram .....	38
Hydraulic Hose Connections .....	39
Wiring Diagram.....	40
Explanation of Code in Remarks Column.....	42
Suggested Spare Parts .....	43

## Component Drawings

Nameplate and Decals Assembly.....	44–45
Hydraulic Drive Assembly.....	46–47
Hydraulic Pump Assembly.....	48–49
Hydraulic Dump Assembly .....	50–51
Pump and Coupling Assembly .....	52–53
Tube Assembly .....	54–55
Panel Assembly .....	56–57
Brake Assembly.....	58–59
Steering and Controls Assembly .....	60–61
Chassis Assembly .....	62–63
Handle/Foot Dump Controls Assembly.....	64–65
Hydraulic Oil Tank Assembly .....	66–67
Battery Assembly.....	68–69
Fuel Tank Assembly (Steel) .....	70–71
Fuel Tank Assembly (Plastic).....	72–73
Engine Mounting Assembly .....	74–75
Engine Assembly.....	76–77
Engine Service Parts.....	78–79

### NOTICE

Specifications and part numbers are subject to change without notice.

# SAFETY INFORMATION

Do not operate or service the equipment before reading the entire manual. 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.



## SAFETY MESSAGES

The four 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 four words: **DANGER**, **WARNING**, **CAUTION** or **NOTICE**.

## SAFETY SYMBOLS

**! DANGER**

Indicates a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**.

**! WARNING**

Indicates a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

**! CAUTION**

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE INJURY**.

**NOTICE**

Addresses practices not related to personal injury.

Potential hazards associated with the operation of this equipment will be referenced with hazard symbols which may appear throughout this manual in conjunction with safety messages.

Symbol	Safety Hazard
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazards
	Rotating parts hazards
	Hydraulic fluid hazards

# SAFETY INFORMATION

## GENERAL SAFETY

### CAUTION

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.



- Avoid wearing jewelry or loose fitting clothes that may snag on the controls or moving parts as this can cause serious injury.

- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when under medication.



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



- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.

- No one other than the operator is to be in the working area when the equipment is in operation.

- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.

### NOTICE

- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacturer does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- **NEVER** use accessories or attachments that are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.
- **ALWAYS** know the location of the nearest fire extinguisher.
- **ALWAYS** know the location of the nearest first aid kit.
- **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.



# SAFETY INFORMATION

## POWER BUGGY SAFETY

### DANGER

- Engine fuel exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled.
- The engine of this equipment requires an adequate free flow of cooling air. **NEVER** operate this equipment in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause injury to people and property and serious damage to the equipment or engine.



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



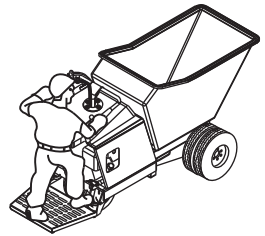
### WARNING

- **NEVER** use your hand to find hydraulic leaks. Use a piece of wood or cardboard. Hydraulic fluid injected into the skin must be treated by a knowledgeable physician immediately or severe injury or death can occur.
- Accidental starting can cause severe injury or death. **ALWAYS** place the ON/OFF switch in the OFF position.
- **NEVER** disconnect any **emergency or safety devices.** These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these devices will void all warranties.
- **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.



### CAUTION

- **ALWAYS** inspect the surface over which you will travel. Look for holes, drop-offs and obstacles. Look for rough and 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 power buggy to tip over.
- **ALWAYS** clear away trash and debris. Pick up anything that might puncture the tires.
- **ALWAYS** make sure aisles, ramps, doorways and passages are clear.
- **ALWAYS** 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.
- **NEVER** operate the power buggy facing backwards. In a backwards position, the operator cannot properly activate the manual brake, emergency switch, grip the handles or steer the machine. **ALWAYS** face in the direction of the bucket.
- **DO NOT** operate the power buggy on unsafe haul roads, load areas, and dump areas.
- **DO NOT** operate power buggy on excessive slopes with a grade higher than 10% (6°), forward and backward.
- **DO NOT** operate power buggy on extremely uneven surfaces.
- **NEVER** allow riders other than the operator on the power buggy.
- **ALWAYS** secure the step plate (platform) in the upright position when using the power buggy over rough terrain.
- **DO NOT** stand on the power buggy step plate (platform) when walking in rough terrain. Walk behind the power buggy.
- **DO NOT** touch, lean on or reach through the dump mechanism or permit others to do so. **NEVER** climb on the power buggy or dump mechanism.



## SAFETY INFORMATION



- **DO NOT** operate the power buggy at excessive speeds. Reckless operation may cause accidents and severe injury. Slow down when approaching people, wet areas, and going up and down grades. It is the responsibility of the operator to adjust speed, as necessary, depending on the conditions of the road or path.
  - **ALLOW** extra time to stop when operating the power buggy on wet surfaces or loosely graded materials.
  - **DO NOT** dump materials that are large and chunky. These types of material may shift causing the power buggy to tip and throw the operator off the machine. The power buggy is intended for dumping free-flowing and loose materials such as dry soil, slag, and wet concrete.
  - **DO NOT** dump materials from bucket while the power buggy is moving.
  - For walk behind operation, the operator platform must be stowed and locked in the up position. The speed should also be reduced to 3 mph (4.8 kph) or slower.
- NOTICE**
- **ALWAYS** ensure power buggy is **securely** placed on appropriate blocks or jackstands when performing maintenance requires elevation of the buggy.
  - **ALWAYS** make sure the power buggy's brakes are working properly. Check brake linkage and adjust as required. **NEVER** operate the power buggy with a defective braking system.
  - Ensure brakes are applied when leaving or when using on a slope.
  - When parking on a slope, position the power buggy at a right angle to a slope. Ensure that the parking brake is engaged and holds the power buggy safely in place when parking on a slope.
  - When filling or dumping **DO NOT** exceed payload capacity of power buggy.
  - **ALWAYS** be aware of traveling conditions. Reduce load if necessary.
  - **DO NOT** activate dump mechanism (tub) if buggy is facing a down hill slope.
- **DO NOT** stand in front or along side the buggy when discharging a load.
  - **ALWAYS** block the power buggy with appropriate blocks when leaving the power buggy parked on a slope.
  - To prevent unexpected loss of control, **DO NOT** start engine on a sloping surface.
  - Ensure that the speed control lever works freely and returns to the closed position. **DO NOT** start engine unless speed control linkage is working properly.
  - Make sure that the tires are inflated to the manufacturer's recommended tire pressure.
  - **NEVER** operate the power buggy with bad or worn tires. **ALWAYS** replace defective tires with new ones.
  - **ALWAYS** make sure the hydraulic dumping mechanism of the tub is working properly.
  - Avoid sudden stops and starts and changes in direction. Operate the controls smoothly. **DO NOT** jerk the steering or any other controls.
  - **NEVER** attempt to work the control except from the operator's position.
  - **NEVER** drive or tow the power buggy in traffic or on public roads.
  - **ALWAYS** keep the machine in proper running condition.
  - Fix damage to machine and replace any broken parts immediately.
  - The entire power buggy (tub, step plate, shroud, wheels, etc.) should be cleaned after every use. Make sure there is no buildup of concrete, grease, oil or debris on the machine.
  - **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 and unauthorized personnel.
  - **ALWAYS** place the fuel valve lever in the **OFF** position when the equipment is not in use.




# SAFETY INFORMATION

## ENGINE SAFETY


### WARNING

- **DO NOT** place hands or fingers inside engine compartment when engine is running. 
- **NEVER** operate the engine with heat shields or guards removed.
- Keep fingers, hands hair and clothing away from all moving parts to prevent injury. 
- **ALWAYS** shut down the engine before performing service or maintenance.
- **DO NOT** remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the oil tank and severely scald any persons in the general area of the power buggy.

### CAUTION

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing equipment. 
- Make certain the operator knows how to and is capable of turning the engine OFF in case of an emergency.


### NOTICE

- **NEVER** run engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service air filter frequently to prevent engine malfunction.
- **NEVER** tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result if operating in speed ranges above the maximum allowable. 

## FUEL SAFETY


### DANGER

- **DO NOT** start the engine near spilled fuel or combustible fluids. Fuel is extremely flammable and its vapors can cause an explosion if ignited.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.


- **ALWAYS** use extreme caution when working with flammable liquids.
- **DO NOT** fill the fuel tank while the engine is running or hot.
- **DO NOT** overfill tank and tighten fuel cap until you hear "clicking", since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system.
- Store fuel in appropriate containers, in well-ventilated areas and away from sparks and flames.
- **NEVER** use fuel as a cleaning agent.
- **DO NOT** smoke around or near the equipment. Fire or explosion could result from fuel vapors or if fuel is spilled on a hot engine. 
- **DO NOT** leave the power buggy in the vicinity of ovens, furnaces or radiant heaters. Heat could raise the pressure of the fuel so that vented gas could ignite.

## BATTERY SAFETY (ELECTRIC START ONLY)

### DANGER

- **DO NOT** drop the battery. There is a possibility that the battery will explode.
- **DO NOT** expose the battery to open flames, sparks, cigarettes, etc. The battery contains combustible gases and liquids. If these gases and liquids come into contact with a flame or spark, an explosion could occur. 

### WARNING

- **ALWAYS** wear safety glasses when handling the battery to avoid eye irritation. The battery contains acids that can cause injury to the eyes and skin. 
- Use well-insulated gloves when picking up the battery.
- **ALWAYS** keep the battery charged. If the battery is not charged, combustible gas will build up.
- **DO NOT** charge battery if frozen. Battery can explode. When frozen, warm the battery to at least 61°F (16°C).

# SAFETY INFORMATION

- **ALWAYS** recharge the battery in a well-ventilated environment to avoid the risk of a dangerous concentration of combustible gases.

- If the battery liquid (dilute sulfuric acid) comes into contact with **clothing or skin**, rinse skin or clothing immediately with plenty of water.



- If the battery liquid (dilute sulfuric acid) comes into contact with **eyes**, rinse eyes immediately with plenty of water and contact the nearest doctor or hospital to seek medical attention.

## CAUTION

- **ALWAYS** disconnect the **NEGATIVE battery terminal** before performing service on the equipment.

- **ALWAYS** keep battery cables in good working condition. Repair or replace all worn cables.

## LIFTING SAFETY

## CAUTION

- **NEVER** allow any person or animal to stand underneath the equipment while lifting.

## NOTICE

- When lifting of the power buggy is required, use a properly rated forklift. 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. Before lifting, make sure that the lifting bale is not damaged.

- **NEVER** tip the engine to extreme angles during lifting as it may cause oil to gravitate into the cylinder head, making the engine start difficult.

- **DO NOT** lift machine to unnecessary heights.

- **NEVER** lift the equipment while the engine is running.

- **ALWAYS** use ramps capable of supporting the weight of the power buggy and the operator to load and unload the power buggy.

## TRANSPORTING SAFETY

### NOTICE

- **ALWAYS** shutdown engine before transporting.

- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.

- When transporting of the power buggy is required, place the power buggy on a flat bed truck or equivalent and tie down securely.

- **ALWAYS** make sure all tie-downs and block are in place and the bucket is completely lowered in the flat (horizontal) position and securely latched.

- Place **chock blocks** underneath wheel to prevent rolling.

- When transporting the power buggy on a truck or trailer, know the overall height to avoid contacting overhead obstructions such as bridges and power lines. Check the truck and ramp capacities.

- **ALWAYS** place the fuel valve lever in the **OFF** position when the before transporting.

# SAFETY INFORMATION

## ENVIRONMENTAL SAFETY/DECOMMISSIONING

### NOTICE

Decommissioning is a controlled process used to safely retire a piece of equipment that is no longer serviceable. If the equipment poses an unacceptable and unrepairable safety risk due to wear or damage or is no longer cost effective to maintain (beyond life-cycle reliability) and is to be decommissioned (demolition and dismantlement), be sure to follow rules below.

- **DO NOT** pour waste or oil directly onto the ground, down a drain or into any water source.
- Contact your country's Department of Public Works or recycling agency in your area and arrange for proper disposal of any electrical components, waste or oil associated with this equipment.
- When the life cycle of this equipment is over, remove battery (if equipped) and bring to appropriate facility for lead reclamation. Use safety precautions when handling batteries that contain sulfuric acid.
- When the life cycle of this equipment is over, it is recommended that the unit frame and all other metal parts be sent to a recycling center.



Metal recycling involves the collection of metal from discarded products and its transformation into raw materials to use in manufacturing a new product.

Recyclers and manufacturers alike promote the process of recycling metal. Using a metal recycling center promotes energy cost savings.

## EMISSIONS INFORMATION

### NOTICE

This equipment conforms with applicable Environmental Protection Agency (EPA) and California Air Resources Board (CARB) emission regulations.

The gasoline engine used in this equipment has been designed to reduce harmful levels of carbon monoxide (CO), hydrocarbons (HC) and nitrogen oxides (NOx) contained in gasoline exhaust emissions.

Mandated Emission Components:

- Engine, EPA certified
- Fuel cap, EPA certified
- Fuel and vapor recovery hoses, EPA certified SAE J30R7 or SAE J30R14T2
- Charcoal canister, EPA certified

Miscellaneous Parts Associated with Emission System:

- Hose clamps and retainer brackets
- Roll over valve vapor recovery valve
- Steel fuel tank

Tampering with or altering the emission control system may increase emissions beyond the legal limit. Do not remove or alter any part of the system.

Additionally, modifying the fuel system may adversely affect evaporative emissions, resulting in fines or other penalties.

The Emission control system is valid only for the United States, its territories and commonwealths to include Canada.

### Emission Control Label

The emission control label is an integral part of the emission system and is strictly controlled by regulation(s).

The label must remain with the engine for its entire life.

If a replacement emission label is needed, please contact your authorized engine distributor.

## SPECIFICATIONS (BUGGY)

<b>Table 1. Specifications (Power Buggy)</b>	
Models	WBH-16, WBH-16F, WBH-16E and WBH-16EF
Maximum Weight Capacity (Dual Wheels)	2,500 lbs. (1,134 kg)
Maximum Weight Capacity (Single Wheels)	1,100 lbs. (500 kg)
Operating Weight	1,415 lbs. (641.8 kg.)
Bucket/Tub Capacity	16 cu. ft. Water Level (.59 cu. yd.)
Bucket/Tub Material	Polyethylene
Drive	Hydrostatic
Speed	Up to 7.25 mph. (11.67 km/h)
Steering	Handle Bars To Rear Wheels
Fuel Tank Capacity	4.8 gallons (18.1 liters)
Hydraulic Oil Tank Capacity	5.3 gallons (20.4 liters)
Hydraulic Oil Type	Exxon/Mobil Nuto H 46 or Equivalent.
Hydraulic Filter	10 Micron
Brakes (Drive Wheels)	Dynamic Hydrostatic
Parking Brake (Drive Wheels)	Mechanical
Dump Control	Hydraulic Dump and Return
Discharge Height	6.0 in. (152 mm)
Ground Clearance	6.0 in. (152 mm)
Gradeability	6° or 10%
Battery (LxWxH)	12V BCI Group U1, 300 CCA @ 0°F 7.75 x 5.18 x 7.31 in. (197 x 132 x 186 mm)
Foam Filled Tires (Drive Wheels)	5.70 x 8.0 (145 x 203 x 483 mm)
Foam Filled Tires (Steering)	4.80 x 8.0 in. (122 x 203 mm)

## SPECIFICATIONS (ENGINE)

<b>Table 2. Specifications (Engine)</b>	
Model	GX390RT2QTT (Recoil Start) GX390RT2QNB2 (Electric Start)
Type	4-Stroke Single Cylinder OHV
Bore X Stroke	3.46 x 2.51 in. (88 x 64 mm.)
Displacement	389 cc
Maximum Power	11.7 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 Type	Unleaded Gasoline Minimum 85 Octane
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.)

# DIMENSIONS

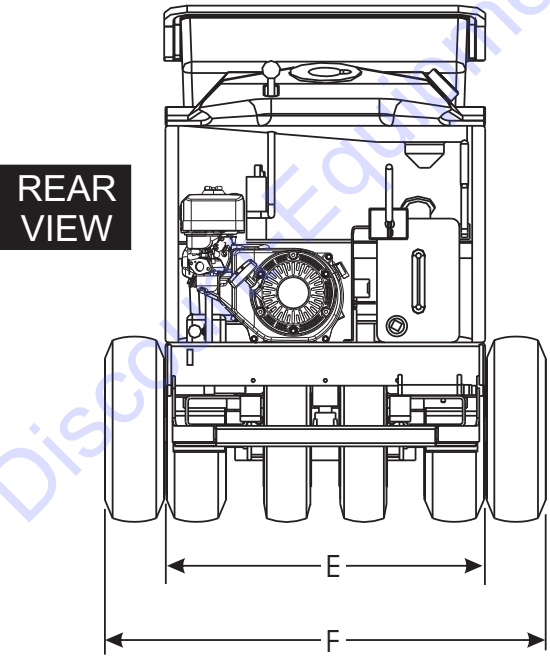
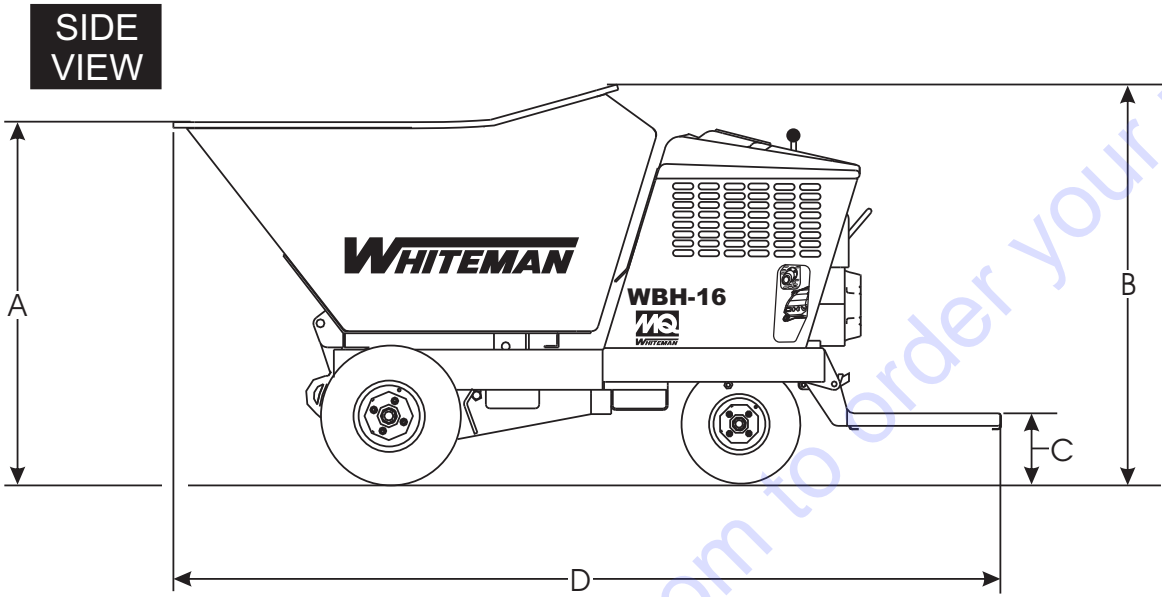


Table 3. Dimensions	
Reference Letter	Dimension in. (mm)
A	45.47 (1,155)
B	51.0 (1,295)
C	8.50 (216)
D	103 (2,612)
E	30.75 (781)
F	42.75 (1,085)

Figure 1. WBH16 Series Dimensions

## GENERAL INFORMATION

The MQ Whiteman Power Buggy, WBH-16 Model Series (recoil/electric start) are intended for the transportation of concrete, concrete spreading and spot pouring. In addition, this power buggy is designed for landscaping applications, material sub-base distribution, job site cleanup and material transport.

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, it has a unique polyethylene tub design that reduces concrete splatter.

A low center of gravity has been incorporated into the design which provides added safety when maneuvering the buggy in tight areas. A 4.8 gallon (18.1 liters) fuel tank allows for extended uninterrupted use. Maximum speed of the power buggy is rated at 7.25 mph (11.7 km/h).

The maximum weight capacity of the Power Buggy is: 2,500 lbs. (1,134 kg) when dual wheels are employed and 1,100 lbs. (500 kg) when single wheels are used. The outer wheels can be removed to allow the buggy to pass through a 32 in. (81.28 cm.) door.

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

The WBH-16 Model Series are all powered by a HONDA GX390 air cooled gasoline engine rated at 11.7 HP at 3600 RPM

The engine drives a 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 2100 PSI (14,478 kPa). 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.

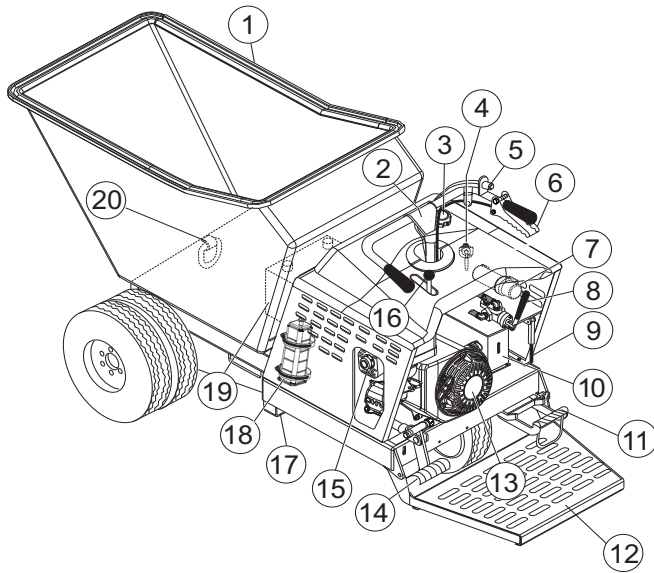
### WARNING

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

### CAUTION



**DO NOT** attempt to operate the power buggy until the Safety Information, General Information, and Inspection sections of this manual have been ***read and thoroughly understood.***



**Figure 2. WBH16/WBH16E Power Buggy Components**

- 1. Tub or Bucket** — Used for the transportation of material. Tub holds approximately 16 cubic feet (0.59 cubic yards) of water.
- 2. Handle Bar (Steering)** — This handle bar is used to steer the buggy. When driving the buggy, use both hands and hold onto both handle bar grips.
- 3. Fuel Tank/Cap** — Remove this cap to add fuel. Tank holds approximately 4.8 U.S. gallons (18.1 liters). **DO NOT** over fill. Tighten cap until you hear "clicking".
- 4. Fuel Valve Lever** — When placed in the **ON** position fuel will flow. **OFF** position stops fuel flow. **ALWAYS** place this lever in the **ON** position when starting the engine. When machine is not in use, place this lever in the **OFF** position.
- 5. Kill Switch** — In the event of an emergency, press this button to stop the engine.
- 6. Speed Control** — Sets the power buggy's travel speed. When fully depressed, the buggy will be at **FULL** speed. When released, the buggy will **STOP**.
- 7. Documentation Canister** — Store and maintain Operation, Parts, and Engine manuals in this container at all times.
- 8. 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.
- 9. Parking Brake Lever** — When this lever is activated (pulled down), the parking brake will be set. To release the brake, pull the lever upwards.
- 10. Hydraulic Tank/Cap** — Remove this cap to add hydraulic oil. Tank holds approximately 5.3 U.S. gallons (20.4 liters). **DO NOT** over fill.
- 11. Brake Pedal** — Press this pedal with the right foot to stop the buggy.
- 12. Operator Platform** — When the buggy is in use, the operator shall **ALWAYS** stand on this platform while holding onto the handle bar (steering).
- 13. Engine** — This machine uses an electric start or a recoil start 11.7HP Honda engine.
- 14. 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).
- 15. Muffler** — Used to reduce noise and emissions. **NEVER** touch the muffler while it is hot. Serious burns can result.
- 16. 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).
- 17. Forklift Pockets** — Use these fork lift pockets to lift the power buggy with a forklift. Remember to insert the forks of the fork lift a minimum of 24 inches (610 mm.) into power buggy's fork lift pockets.
- 18. Charcoal Canister (If Equipped)** — Charcoal activated system that absorbs or traps fuel vapors. Basic component of evaporative emissions control systems.
- 19. Battery** — Used in the electric-start power buggy (WBH-16E/WBH-16EF) models only. Always use gloves and eye protection when handling the battery.
- 20. Towing Hook** — Use this hook to tow the buggy if it gets stuck. This hook is **NOT** intended for towing the buggy on public roads at high speeds.



# ENGINE COMPONENTS

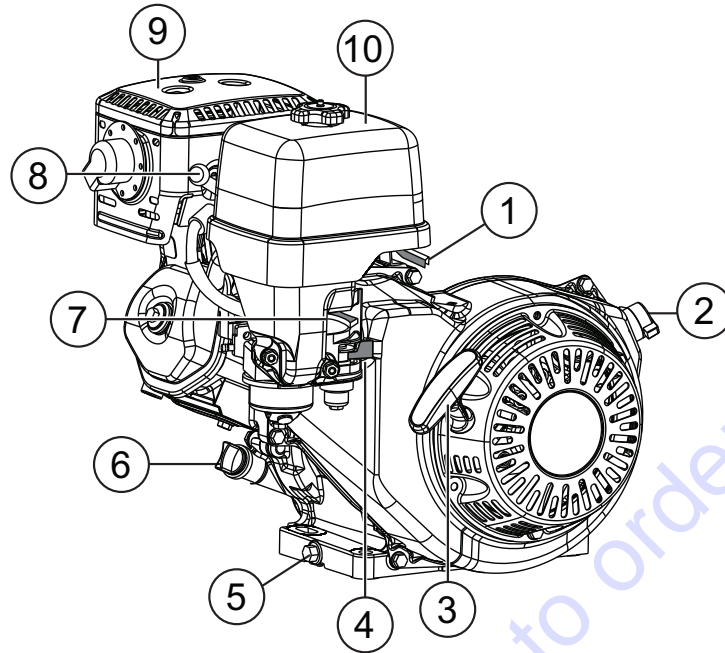


Figure 3. Honda GX390 Engine

## INITIAL SERVICING

The engine (Figure 3) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the manufacturer's engine manual for instructions and details of operation and servicing.

1. **Throttle Lever** – Used to adjust engine RPM speed.
2. **Engine On/Off Switch** – **ON** position permits engine starting, **OFF** position stops engine operation.
3. **Recoil Starter (pull rope)** – Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly.
4. **Fuel Valve Lever** – **OPEN** to let fuel flow, **CLOSE** to stop the flow of fuel.
5. **Oil Drain Plug** – Remove this plug to remove oil from the engine's crankcase.
6. **Dipstick/Oil Filler Cap** – Remove this cap to determine if the engine oil is low. Add oil through this filler port as recommended in Table 4.

7. **Choke Lever** – Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
8. **Spark Plug** – Provides spark to the ignition system. Set spark plug gap according to engine manufacturer's instructions. Clean spark plug once a week.
9. **Muffler** – Used to reduce noise and emissions. **NEVER** touch when **hot!**
10. **Air Cleaner** – Prevents dirt and other debris from entering the fuel system. Remove wing-nut on top of air filter canister to gain access to filter element.

### NOTICE

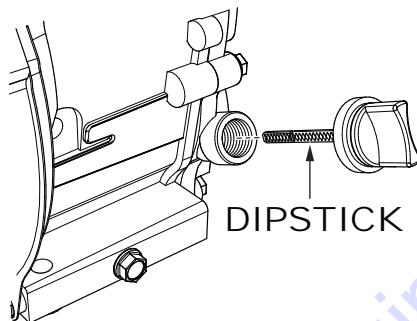
Operating the engine without an air filter, with a damaged air filter, or a filter in need of replacement will allow dirt to enter the engine, causing rapid engine wear.

## BEFORE STARTING

1. Read all safety instructions at the beginning of manual.
2. Clean the unit, 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.

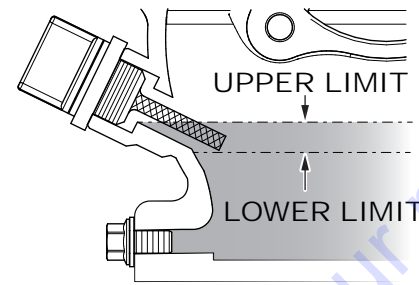
## ENGINE OIL CHECK

1. To check the engine oil level, place the unit on secure level ground with the engine stopped.
2. Remove the filler dipstick from the engine oil filler hole (Figure 4) and wipe it clean.



**Figure 4. 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 5), fill to the edge of the oil filler hole with the recommended oil type (Table 4). Maximum oil capacity is 1.16 quarts (1.1 liters).
5. Make sure the buggy is level and verify that the oil level is maintained between the two notches (Figure 5) as shown on the dipstick. Reference Table 4 for proper selection of engine oil.
6. When checking the engine oil, be sure to check if the oil is clean. If the oil is not clean, drain the oil by removing the oil drain plug, and refill with the specified amount of oil as outlined in the maintenance section of this manual. Oil should be warm before draining.



**Figure 5. Engine Oil Dipstick (Oil Level)**

**Table 4. Engine 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

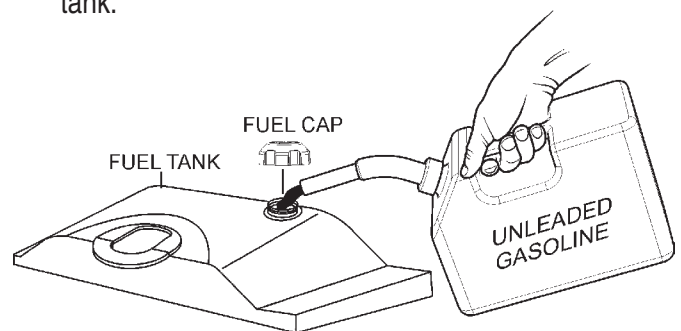
## FUEL CHECK

### **! DANGER**



Motor fuels are highly flammable and can be dangerous if mishandled. **DO NOT** smoke while refueling. **DO NOT** attempt to refuel the buggy if the engine is **hot or running**.

1. Remove the fuel cap (Figure 6) located on top of fuel tank.



**Figure 6. Fuel Tank**

2. Visually inspect to see if fuel level is low. If fuel level 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 immediately. Reinstall fuel cap.

## BATTERY

This unit is of negative ground **DO NOT** connect in reverse. **ALWAYS** maintain battery fluid level between the specified marks. Battery life will be shortened, if the fluid level are not properly maintained. Add only distilled water when replenishment is necessary.

**DO NOT** over fill. Check to see whether the battery cables are loose. Poor contact may result in poor starting or malfunctions.

**ALWAYS** keep the terminals firmly tightened. Coating the terminals with an approved battery terminal treatment compound. Replace battery with only recommended type battery. The battery type used in this power buggy is BCI Group U1.

The battery is sufficiently charged if the specific gravity of the battery fluid is 1.28 (at 68° F). If the specific gravity should fall to 1.245 or lower, it indicates that the battery is dead and needs to be recharged or replaced.

Before charging the battery with an external electric source, be sure to disconnect the battery cables.

### **CAUTION**

**ALWAYS** disconnect the negative terminal **FIRST** and reconnect negative terminal **LAST**.

## Battery Cable Installation

**ALWAYS** be sure the battery cables (Figure 7) are properly connected to the battery terminals as shown below. The **red cable** is connected to the positive terminal of the battery, and the **black cable** is connected to the negative terminal of the battery.

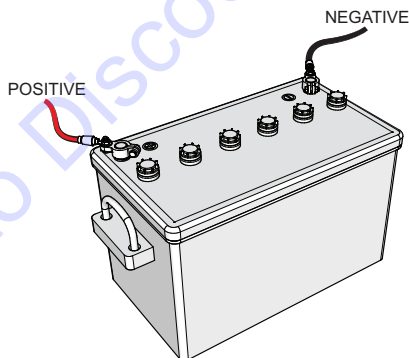


Figure 7. Battery Connections

When connecting battery do the following:

1. **NEVER** connect the battery cables to the battery terminals when the ignition is in the **ON** position (start).
2. Place a small amount of battery terminal treatment compound around both battery terminals. This will ensure a good connection and will help prevent corrosion around the battery terminals.

### **NOTICE**

If the battery cable is connected incorrectly, electrical damage to the power buggy will occur. Pay close attention to the polarity of the battery when connecting the battery.

### **CAUTION**

Inadequate battery connections may cause poor starting of the power buggy, and create other malfunctions.

## TIRE PRESSURE CHECK

The wheels and tires of the power buggy are very important in its effective operation.

1. Check the tires regularly to make certain the lugs nuts are tight
2. Make sure tires are inflated to manufacturer's suggested tire pressure. **DO NOT** operate the buggy with bad or worn tires.

## PARKING BRAKE CHECK

Check the brakes as outlined in the maintenance section of this manual.

## LINKAGE CHECK

Check and make sure that all linkages within the buggy are functioning correctly.

## STEERING CHECK

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

## DUMP CYLINDER CHECK

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

## HYDRAULIC OIL CHECK

3. Visually read the hydraulic sight glass (Figure 8) to see if the hydraulic oil level is low.
4. If the hydraulic oil is low, add enough hydraulic oil to bring oil level to a normal safe operating level.

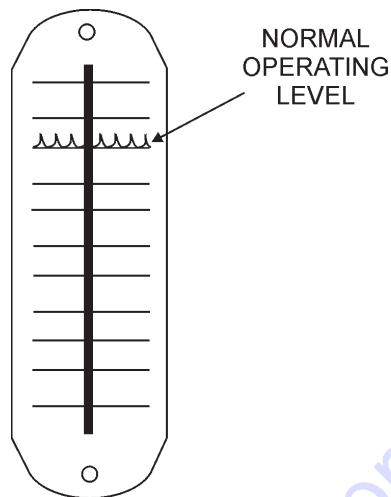


Figure 8. Hydraulic Sight Glass

## CAUTION



**DO NOT** attempt to operate the power buggy until the Safety Information, General Information, and Inspection sections of this manual have been **read and thoroughly understood**.

## ELECTRIC START (METHOD)

1. Before attempting to start the power buggy, make sure that the **safety kill switch** (Figure 9) is not pushed in. The power buggy will not start with the kill switch engaged.

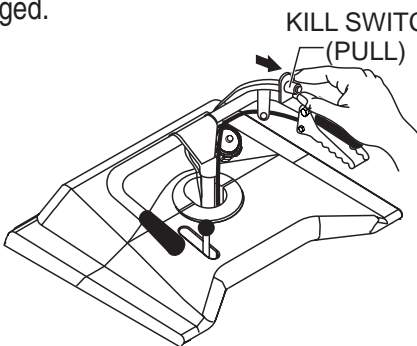


Figure 9. Kill Switch OFF

2. Place the travel control lever (Figure 10) in the **NEUTRAL** position.

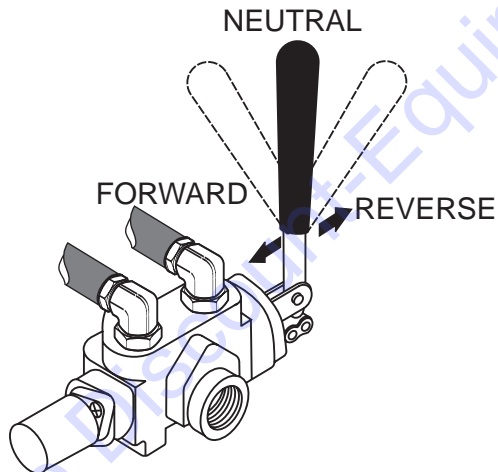


Figure 10. Travel Control Lever

3. Place the engine fuel lever to the **ON** position. (Figure 11).

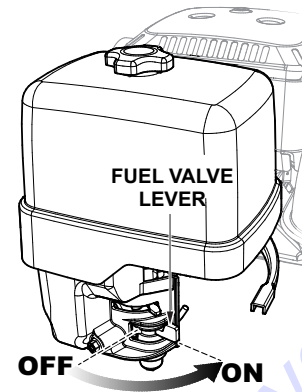


Figure 11. Engine Fuel Lever (ON)

4. Place the fuel tank ON/OFF valve (Figure 12) in the **ON** position.

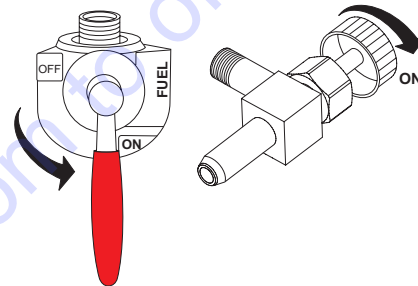


Figure 12. Fuel Tank ON/OFF Valve (ON)

5. If starting a cold engine, place the choke lever (Figure 13) in the **CLOSED** position.

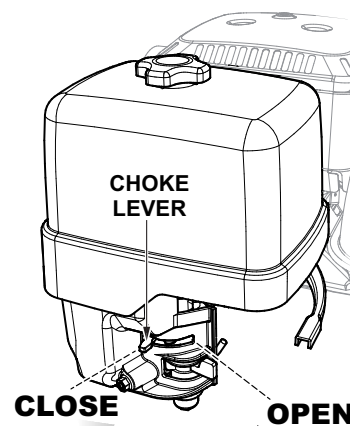


Figure 13. Engine Choke Lever (Closed)

## NOTICE

The **CLOSED** position of the choke lever enriches the fuel mixture for starting a cold engine. The **OPEN** position provides the correct fuel mixture for normal operation after starting, and for restarting a warm engine.

## OPERATION

6. If starting a warm engine or the temperature is warm, place the choke lever (Figure 14) in the **OPEN** position.

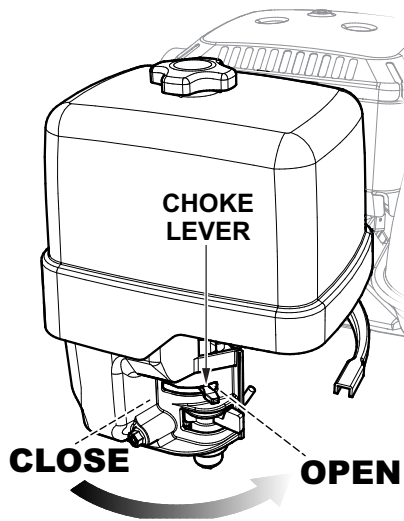


Figure 14. Engine Choke Lever (Open)

7. Move the throttle lever halfway between the **FAST** and **SLOW** position (Figure 15) for starting.

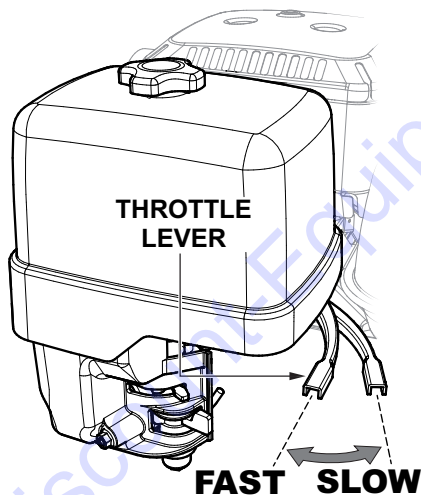


Figure 15. Throttle Lever

8. Place the ignition key (Figure 16) in the **START** position and hold it until the engine starts. When the engine starts, release the key, allowing it to return back to the **ON** position.

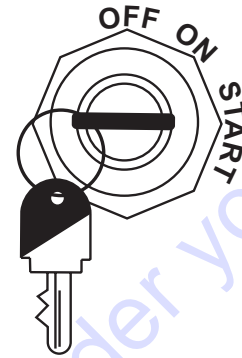
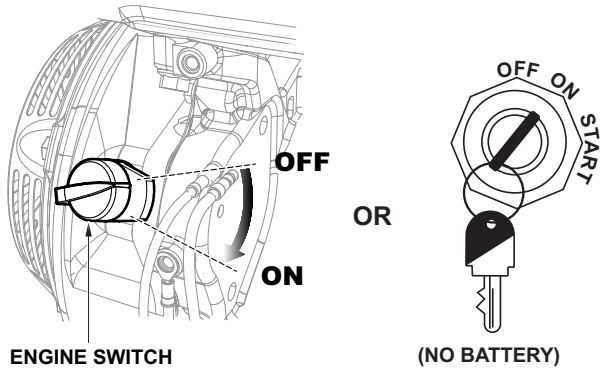


Figure 16. Engine ON/OFF Switch  
(Electric Start Models)

9. Make sure the choke lever has been placed in the **OPEN** position (Figure 14) before operating the power buggy.
10. Place the throttle lever in the **FAST** position
11. 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 or cover.

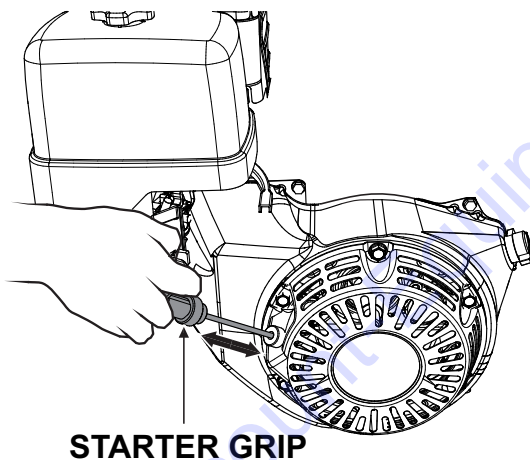
## RECOIL START (METHOD)

1. Follow steps 1 through 6 of the Electric Start procedure.
2. Place the Engine ON/OFF switch (Figure 17) in the **ON** position.



**Figure 17. Engine ON/OFF Switch (Recoil Start)**

3. Grasp the starter grip (Figure 18) 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 18. Starter Grip**

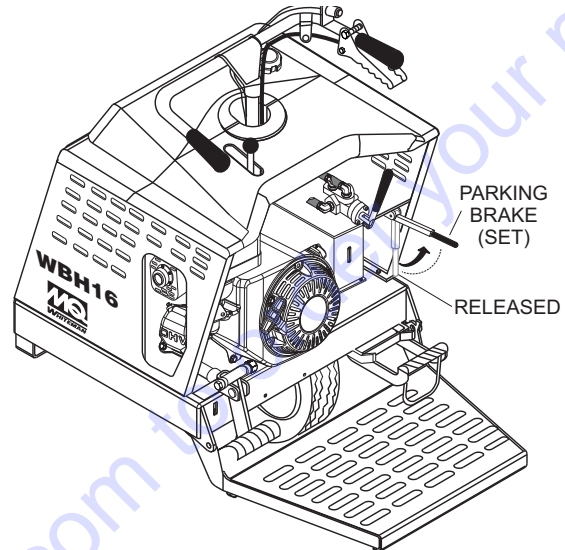
### NOTICE

**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.

4. After the engine has started and warmed, place the choke lever in the **OPEN** position.
5. If the engine has not started, repeat steps 1 through 3.

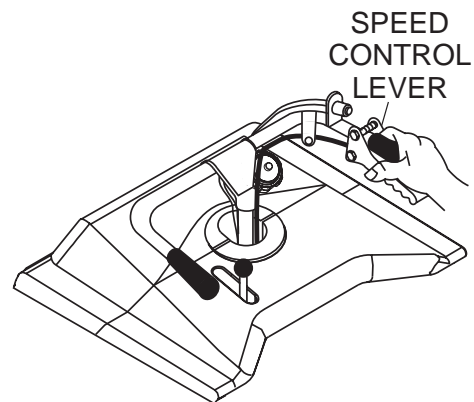
## PRE-CHECK

1. Engage the parking brake lever (Figure 19) 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 19. Parking Brake Lever**

2. Place the engine's throttle lever (Figure 15) in the **slow** (idle) position.
3. Check the speed control lever (Figure 20) located on the right side of the handle bar. The speed control should work freely when squeezed by hand, and return to the **neutral** position when released.

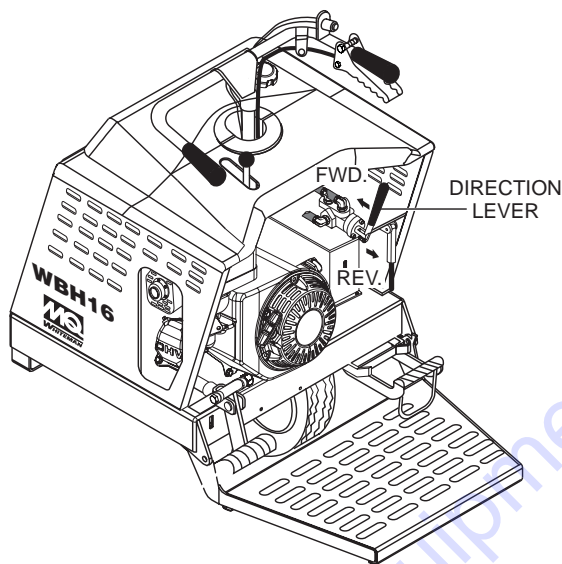


**Figure 20. Speed Control Lever**

## 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 buggy on flat solid ground.
2. Engage the parking brake lever.
3. Place the engine's throttle control (Figure 15) in the **SLOW** (idle) position.
4. Place the power buggy's direction lever (Figure 21) in the forward direction.

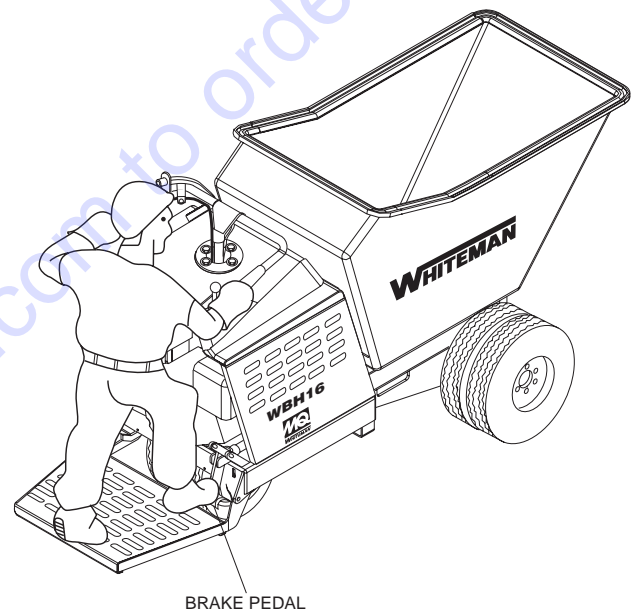


**Figure 21. Direction Lever**

5. Slowly squeeze the speed control lever slightly (Figure 20), for a short period of time to test the brake holding capacity. If the buggy moves forward, adjust the brakes as outlined in the maintenance section of this manual.
6. If the buggy does not move forward, release the speed control, and disengage the parking brake. If the buggy creeps forward or reverse while the parking brake is disengaged, the machine will require service adjustment of the pump control lever as outlined in the maintenance section of this manual.

## TRAVELING

1. With the engine running and parking brake released, place the direction lever (Figure 21) in the forward direction.
2. Squeeze the speed control lever (Figure 20) slightly until the buggy begins to move in a forward direction. Initially, let the buggy travel at about 3 MPH.
3. When using the buggy for the first time, test the brake. With the right foot, step up and place it on the brake pedal (Figure 22). Gradually apply pressure to the brake pedal until the buggy comes to rest.



**Figure 22. Brake Pedal**

4. Test the brake at different speeds until you are comfortable with stopping the buggy. If the brakes do not seem to stop the buggy adequately, refer to the maintenance section of this manual for brake adjustment instructions.
5. When starting and stopping is confirmed to be functioning properly, the buggy is ready for operation.



## STEERING

To steer the buggy, use the handle bar in front of the operator platform.

1. To turn left when traveling in the forward direction, turn the handle bar clockwise (Figure 23).

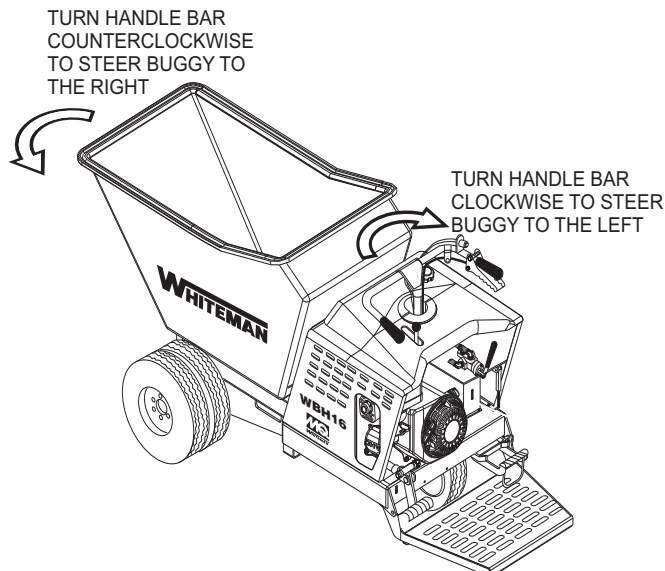


Figure 23. Steering the Buggy

2. To turn right when traveling in the forward direction, turn the handle bar in the counterclockwise direction.

### CAUTION

**DO NOT** steer the buggy left or right when traveling up or down on a grade. Travel in a straight path.

### CAUTION

Avoid sudden and quick turns. When steering, turn the handle bar slowly. Always face the controls when traveling.

## TRAVELING ON A SLOPE

1. When traveling on a slope, it is necessary to determine the grade of the path. The WBH16 can travel up, down on a maximum grade of 10% (6°). **DO NOT** travel on steeper slopes.

To determine the % grade of your path of travel, use the formula and graph in Figure 24.

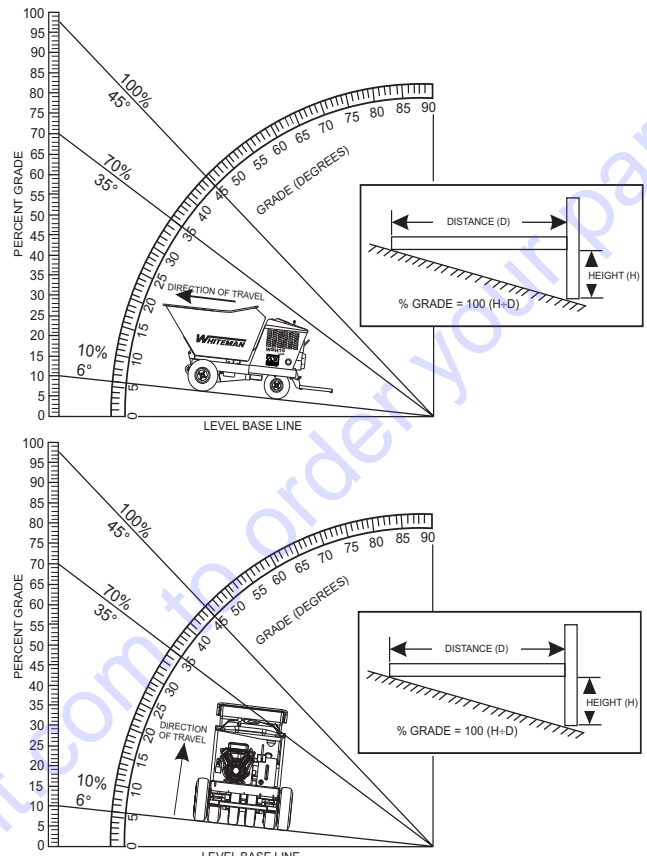


Figure 24. Determining Grade of Slope

### NOTICE

When going up or down a slope, always travel in the forward direction (Figure 25).

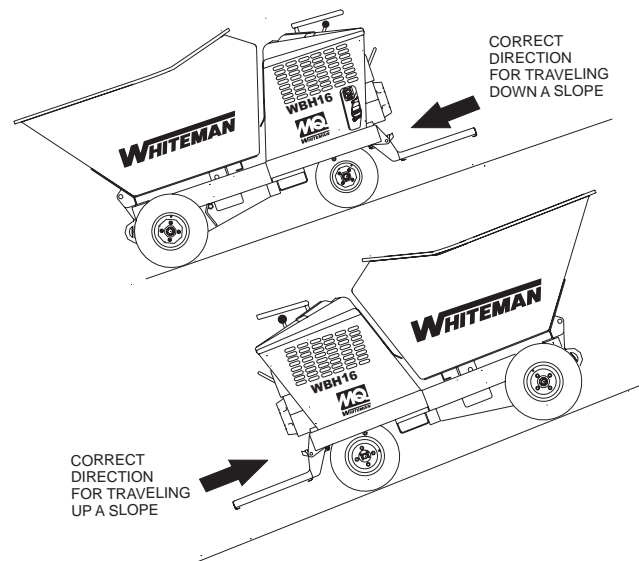


Figure 25. Slope Travel Direction

## TUB (BUCKET) DUMPING

The hydraulic dump can be controlled by the hand dump control lever or foot dump pedal.

1. To place the tub in the vertical position (Figure 26) press down on the dump pedal or move the dump control lever forward. The tub will move to the vertical position as long as pressure is continuously applied to the dump pedal or the dump control lever is held in the forward position.

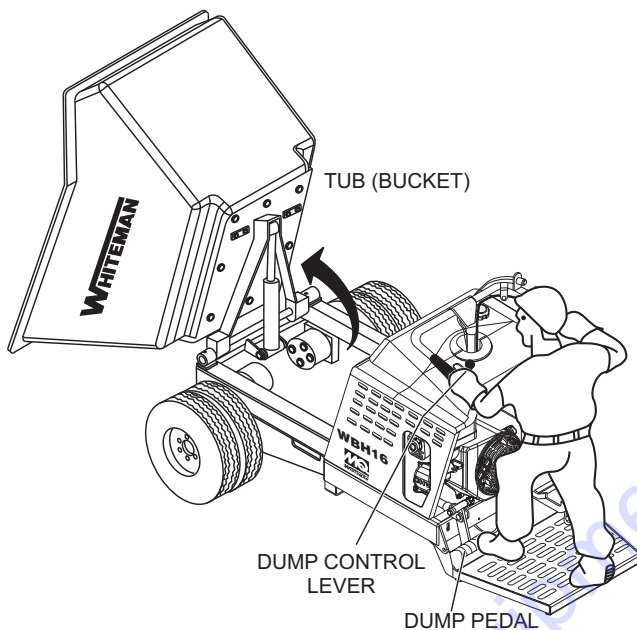


Figure 26. Tub Vertical Position

### NOTICE

**DO NOT** activate dump mechanism (tub/bucket) if buggy is facing down hill. The possibility exist of the buggy tipping over causing equipment damage and severe bodily harm.

### NOTICE

Releasing either one (dump control lever or pedal) before dump is completed, will cause the tub to return to the horizontal position.

2. To return the tub to the horizontal position (Figure 27), simply release the dump control lever or remove your foot from the dump pedal.

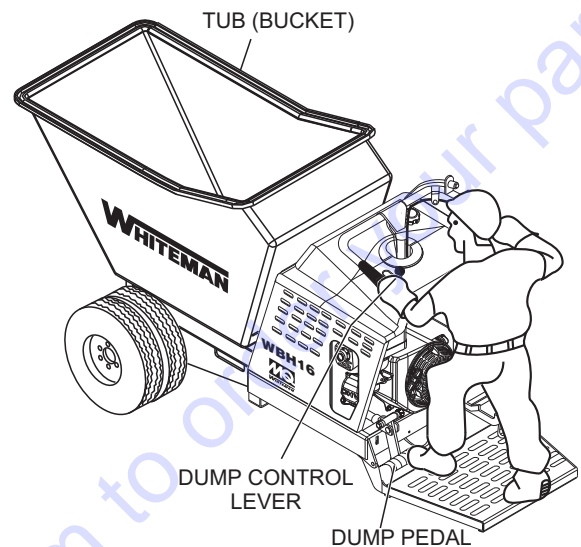


Figure 27. Tub Horizontal Position  
**SHUTDOWN (NORMAL)**

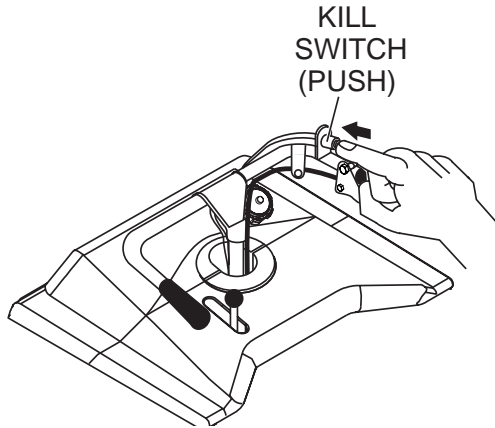
Correct shutdown is important to safe operation. Follow these general steps:

1. Come to a full stop.
2. Engage the parking brake (Figure 19).
3. Place the throttle lever (Figure 15) in the slow position. Idle engine 3-5 minutes for gradual cooling.
4. Place the ignition switch key in the **OFF** position.
5. Place the fuel valve lever in the **OFF** position
6. Cycle hydraulic controls to eliminate residual pressure.
7. Remove ignition key.
8. Block wheels if on a slope or incline.

## EMERGENCY SHUTDOWN

This power buggy is equipped with a safety kill switch. This switch is located on the right side of the handle bar.

1. Push the power buggy's kill switch inward (Figure 28) and listen for the engine to stop.



**Figure 28. Safety Kill Switch**

2. Engage the parking brake (Figure 19).
3. Place the ignition switch key in the **OFF** position.

Table 5. Engine Maintenance Schedule						
DESCRIPTION (3)	OPERATION	BEFORE EACH USE	FIRST MONTH OR 25 HRS.	EVERY 6 MONTHS OR 100 HRS.	EVERY YEAR OR 300 HRS.	EVERY 2 YEARS OR 500 HRS.
Engine Oil	Check	X				
	Change		X	X		
Engine Oil Filter	Replace	Every 100 Hrs.				
Air Cleaner	Check	X				
	Clean		X (1)			
	Change			X		X (*)
Spark Plugs	Check/Adjust			X		
	Replace				X	
Cooling Fins	Clean			X		
Fuel Filter	Replace				X (2)	
Fuel Tube	Check	Every 2 years (replace if necessary) (2)				

\* - Replace the paper filter element only.

(1) Service more frequently when used in **DUSTY** areas.

(2) These items should be serviced by your service dealer, unless you have the proper tools and are mechanically proficient. Refer to the HONDA Shop Manual for service procedures.

(3) For commercial use, log hours of operation to determine proper maintenance intervals.

Table 6. Power Buggy Maintenance Schedule						
Check Item	OPERATION	DAILY	Periodic Maintenance Interval			
			Every 25 Hrs	Every 50 Hrs	Every 100-125 Hrs	Every 200 Hrs
Dump Cylinder	Grease		X			
Steering Bearing Flange	Grease		X			
Tub Bearing Pivot Block	Grease		X			
Tub	Clean	X			X	
Tub For Cracks/Deformations	Check			X		
Tires For Severe Cuts/Wear	Check	X				
Hydraulic Oil Level	Check	X				X
Hydraulic Oil	Replace					X
Hydraulic Oil System	Check	X			1st time	X
Brakes	Check	X				
Fastners	Check	X				

When performing any maintenance on the power buggy or engine, follow all safety messages and rules for safe operation stated at the beginning of this manual.

## WARNING



Accidental starts can cause severe injury or death.



**ALWAYS** place the ON/OFF switch in the OFF position.



Disconnect and ground spark plug leads and disconnect negative battery cable from battery before servicing.

## WARNING



Some maintenance operations may require the engine to be run. Ensure that the maintenance area is well ventilated. Exhaust contains poisonous carbon monoxide gas that can cause unconsciousness and may result in **DEATH**.

## CAUTION



**ALWAYS** allow the engine to cool before servicing. **NEVER** attempt any maintenance work on a hot engine.

## CAUTION

Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

## DANGER

**DO NOT** use gasoline as a cleaning solvent to avoid creating the risk of fire or an explosion.

## ENGINE AIR CLEANER

### NOTICE

Operating the engine with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.

### CAUTION



Wear protective equipment such as approved safety glasses or face shields and dust masks or respirators when cleaning air filters with compressed air.

1. Remove wing nut that secures the air cleaner cover to the air cleaner body. Remove cover and set aside.
2. Next, remove the foam and paper filter elements as shown in Figure 29.
3. Tap the paper filter element (Figure 29) several times on a hard surface to remove dirt, or blow compressed air [not exceeding 30 psi (207 kPa, 2.1 kgf/cm<sup>2</sup>)] through the filter element from the air cleaner case side. **NEVER** brush off dirt. Brushing will force dirt into the fibers. Replace the paper filter element if it is excessively dirty.

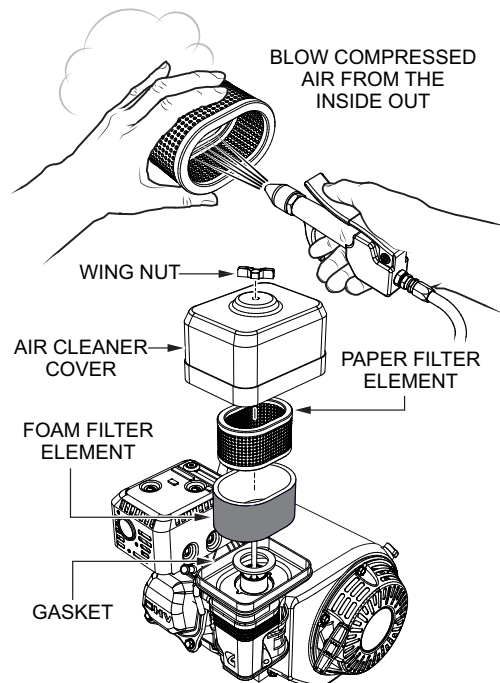
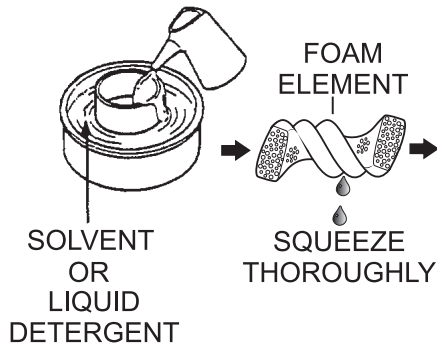


Figure 29. Cleaning Paper Filter

- Clean foam element in warm, soapy water or nonflammable solvent. Rinse and dry thoroughly. Dip the element in clean engine oil and completely squeeze out the excess oil from the element before installing.
- DO NOT** pour any type of oil into the foam element.

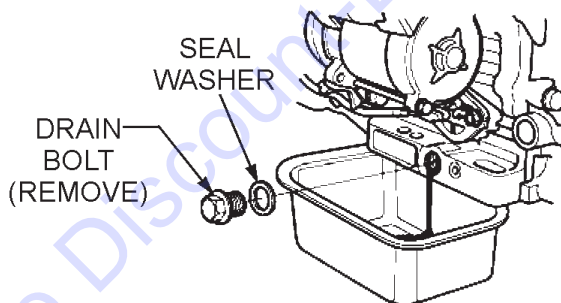


**Figure 30. Cleaning Foam Element**

- Wipe dirt from the inside of the air cleaner cover, using a moist cloth. Be careful not to let any dirt or debris enter the air chamber that leads to the carburetor.
- Reinstall the foam air filter element and paper air filter element.
- Reinstall air cleaner cover.

## CHANGING ENGINE OIL (100 HOURS)

- Drain the engine oil when the oil is warm as shown in (Figure 31).
- Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.

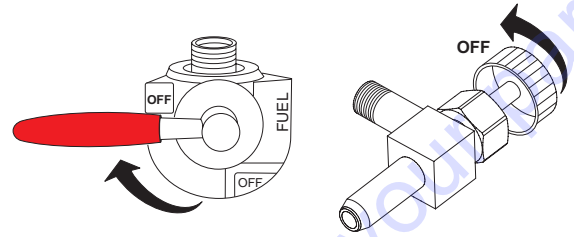


**Figure 31. Draining Engine Oil**

- Reinstall drain bolt with sealing washer and tighten securely.
- Replace engine oil with recommended type oil as listed in Table 4. For engine oil capacity, see Table 2. **DO NOT** over fill.

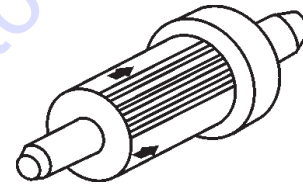
## IN-LINE FUEL FILTER (200 HOURS)

- Place the fuel tank ON/OFF valve lever (Figure 32) in the **OFF** position.



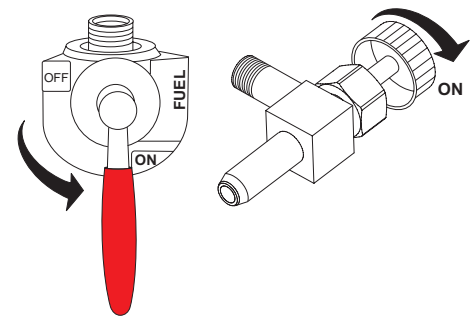
**Figure 32. Fuel Tank Valve Lever (OFF)**

- Replace the engine in-line fuel filter (Figure 33) every 200 hours. When replacing filter pay close attention to the orientation of the arrows.



**Figure 33. In-Line Fuel Filter**

- Return the fuel tank ON/OFF valve (Figure 34) to the **ON** position.



**Figure 34. Fuel Tank Valve Lever (ON)**

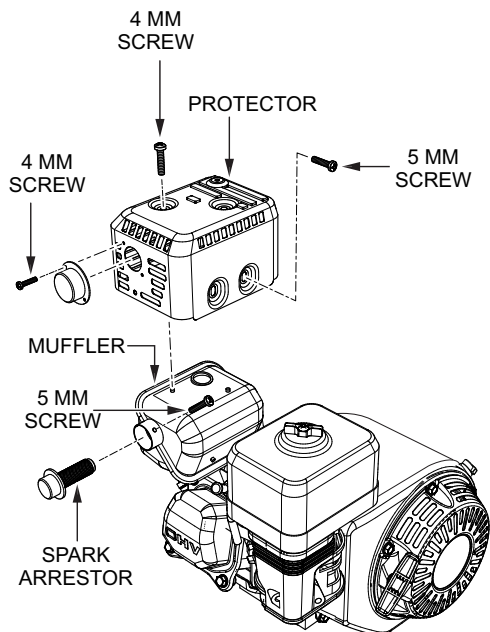
## Oil And Fuel Lines

- Check the oil and fuel lines and connections regularly for leaks or damage. Repair or replace as necessary.
- Replace the oil and fuel lines every two years to maintain the line's performance and flexibility.

## SPARK ARRESTER CLEANING

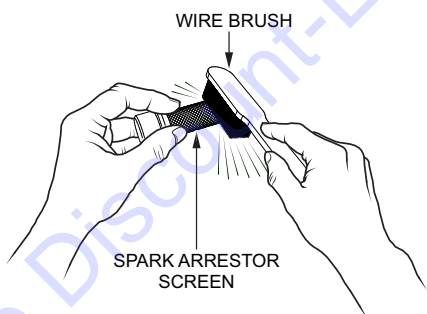
Clean the spark arrester every 6 months or 100 hours.

1. Remove the 4 mm screw (3) from the exhaust deflector (Figure 35), then remove the deflector.



**Figure 35. Spark Arrester**

2. Remove the 5 mm screw (4) from the muffler protector, then remove the muffler protector.
3. Carefully remove carbon deposits from the spark arrester screen (Figure 36) with a wire brush

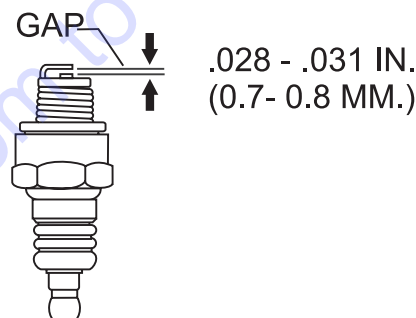


**Figure 36. Cleaning The Spark Arrester**

4. If the spark arrester is damaged and has breaks or holes, replace with a new one.
5. Reinstall the spark arrester and muffler protector in reverse order of disassembly.

## SPARK PLUG ADJUSTMENT

1. Make sure the engine is cool before servicing the spark plugs.
2. Disconnect the spark plug caps. Check for dirt and remove any dirt from around the spark plug area.
3. Remove the spark plugs with a 5/8-inch spark plug wrench.
4. If the spark plug is damaged, the sealing washer is in poor condition, or if the electrode is worn, replace the spark plug.
5. Measure the spark plug electrode gap (Figure 37) with a wire-type feeler gauge. If needed, adjust the gap to 0.7 - 0.8 mm (0.028 - 0.031 in), by carefully bending the side electrode.



**Figure 37. Spark Plug Gap**

6. Install the spark plug carefully, by hand, to avoid cross threading.
7. After the spark plug is seated, tighten with a 5/8-inch spark plug wrench to compress the sealing washer.
8. When installing a new spark plug, tighten 1/2 turn, after the spark plug seats, to compress the washer.
9. When reinstalling the original spark plug, tighten 1/8 to 1/4 turn after the spark plug seats to compress the washer.
10. Reattach the spark plug caps.

## ENGINE TUNE-UP ENGINE

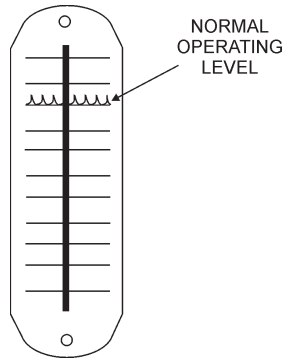
See your engine manual for specific information on tuning up your engine, checking and gapping the spark plugs, etc.

### NOTICE

See the engine manual supplied with your machine for appropriate engine maintenance schedule and troubleshooting guide for problems.

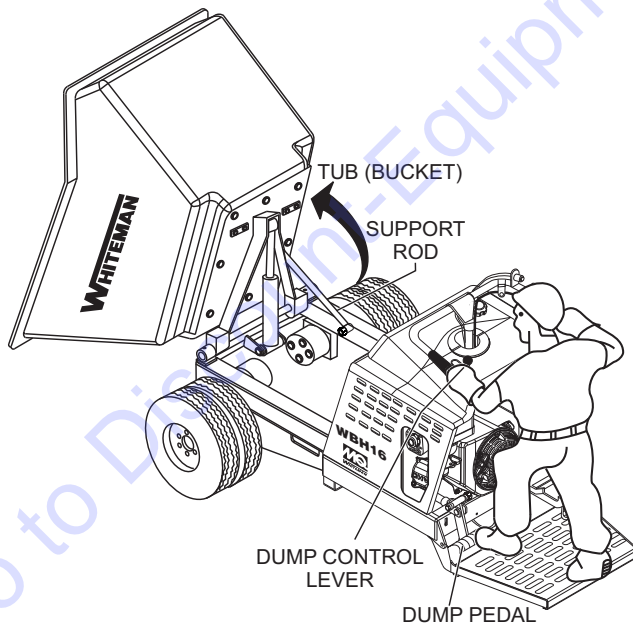
## ADDING HYDRAULIC OIL

1. Check the hydraulic oil level in the hydraulic oil tank, by reading the hydraulic oil sight glass (Figure 38) mounted on the hydraulic oil tank.



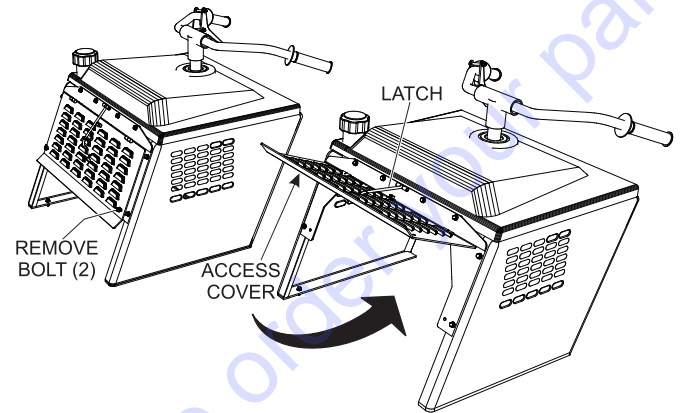
**Figure 38. Hydraulic Oil Sight Glass**

2. If the hydraulic oil level is low, fill to the proper level with EXXON/MOBIL NUTO H 46 or equivalent.
3. To gain access to the hydraulic oil tank filler hole, the tub (Figure 39) must be placed in the dump position (vertical).
4. Start the engine as outlined in the starting procedure, then place the tub in the dumping position.



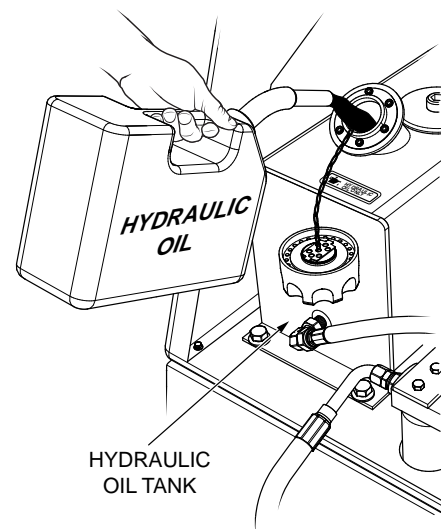
**Figure 39. Tub Dump Position  
Hydraulic Oil Access**

5. Use the tub support rod to support the tub, then turn the engine **OFF**.
6. Remove the two bolts that secure the access cover (Figure 40) to the buggy frame.



**Figure 40. Access Cover**

7. Lift up on access door and secure latch.
8. Remove the hydraulic oil filler cap (Figure 41), and add hydraulic oil as required. Fill to the normal operating mark as indicated on the hydraulic oil sight gauge.



**Figure 41. Adding Hydraulic Oil**

### NOTICE

In climates where temperatures are below 35°F (1.6°C), hard starting may occur. In these cases, the hydraulic oil should be switched to a thinner 15 weight hydraulic fluid.



9. Replace hydraulic oil after every 200 hours of operation. The reservoir capacity is 5.3 gallons (20.4 liters). The hydraulic oil filter should be changed each time the hydraulic oil is changed.

## HYDRAULIC OIL FILTER REPLACEMENT

1. Replace the hydraulic oil filter (Figure 42) every 200 hours. Replace with only recommended type filter.

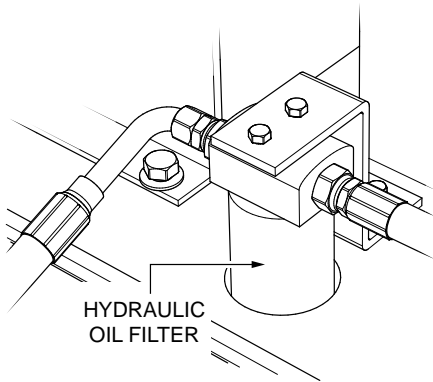


Figure 42. Hydraulic Oil Filter

## Hydraulic Drive Motors

The hydraulic drive motors (Figure 43) are extremely reliable and will not need maintenance or repair under normal conditions.

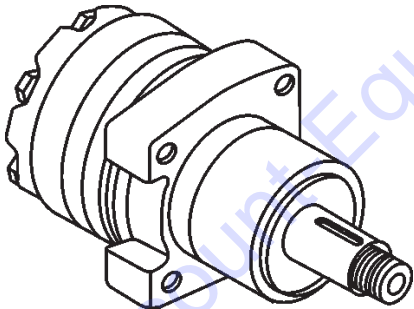


Figure 43. Hydraulic Drive Motor

## NOTICE

Contact Multiquip's Service Department should any problems develop with the hydraulic drive motors

## BRAKE ADJUSTMENT

Brake adjustment can be made on the brake linkage rod located on the right-side of the buggy.

1. Place the parking brake lever in the engaged position. The parking brake should be adjusted so that the buggy will not move.
2. Adjustment is provided by a knob at the end of the parking brake lever. To tighten, turn the knob clockwise.

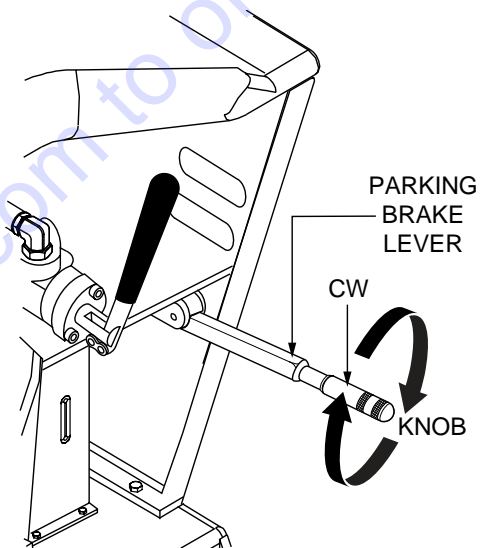


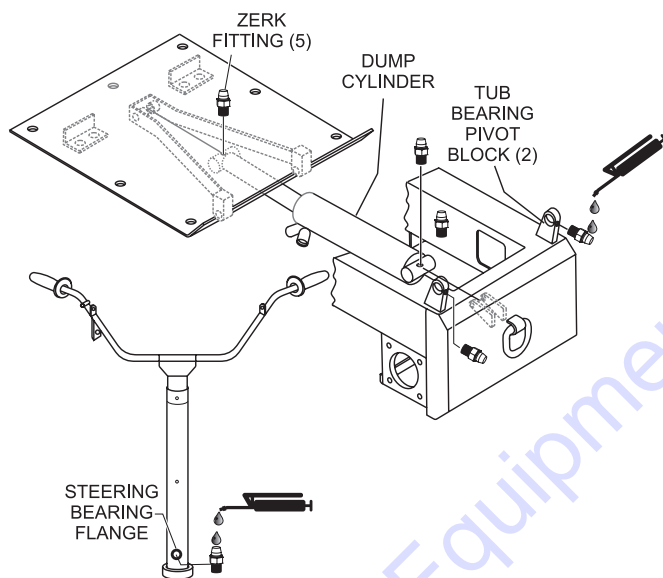
Figure 44. Parking Brake Adjustment

3. Adjust the knob sufficiently tight so that when the parking brake lever is pulled upward to the engaged position (set), there is a sufficient amount of tension.
4. With the parking brake engaged, the buggy should not move when the engine is started and the travel lever placed in the forward position.

## CHASSIS LUBRICATION

This power buggy is equipped with **five** zerk fittings (Figure 45). Lubricate these zerk fittings each day before operating the buggy.

- Lubricate with high grade chassis lubricant at all lubricating points listed below:
  - Dump Cylinder Pivots - Two zerk fittings
  - Tub Bearing Pivot Blocks (Underside of Tub) - Two zerk fittings.
  - Steering Bearing Flange (Front Side of Handle Bar) - One zerk fitting.



**Figure 45. Lubrication Points**

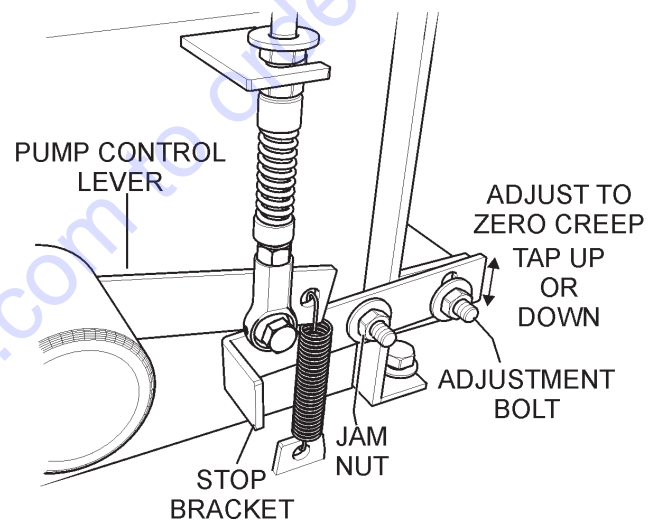
- Remove rear wheel hubs and repack bearings after every 400 hours of operation.

## PUMP CONTROL LEVER ADJUSTMENT

Inspect the speed control return springs. The tension should be sufficient to allow lever to snap back when released. Replace any broken, deformed, or damaged springs.

If the power buggy tends to **creep** in the forward or reverse directions after you release the speed control lever, the pump control lever requires adjustment.

- Place the machines drive wheels on jacks or blocks free from ground contact.
- Locate the **pump control lever** adjustment bolt (Figure 46).



**Figure 46. Pump Control Lever Adjustment**

- Loosen the jam nut.
- Start the engine and place the buggy's directional control lever in the forward then reverse directions while observing for wheel movement.
- The pump lever has a very sensitive neutral position of about 1/32" to 1/16". If the wheels are creeping, loosen jam nut and adjusting bolt.
- Tap lever up or down to determine neutral position. Tighten both nuts when correct neutral position has been achieved.
- If wheels are creeping in reverse, turn the adjusting bolt counterclockwise. If wheels are creeping forward, turn the adjusting bolt clockwise

## TIRES/WHEELS/LUG NUTS

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

### CAUTION

**DO NOT** attempt to repair or modify a wheel. If the rim is cracked, replace the rim immediately and inspect the tire for cuts, wear and deformations.

## TIRE WEAR

The tires (Figure 47) used on this power buggy are foam filled and therefore do not have to be inflated. However the tires should be inspected for cuts, wear and deformity.

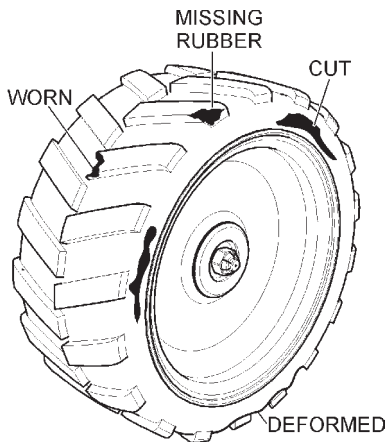


Figure 47. Tire Inspection

## 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 (Figure 48) in sequence. **DO NOT** torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 7.

Table 7. 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. Check all wheel lug nuts periodically.

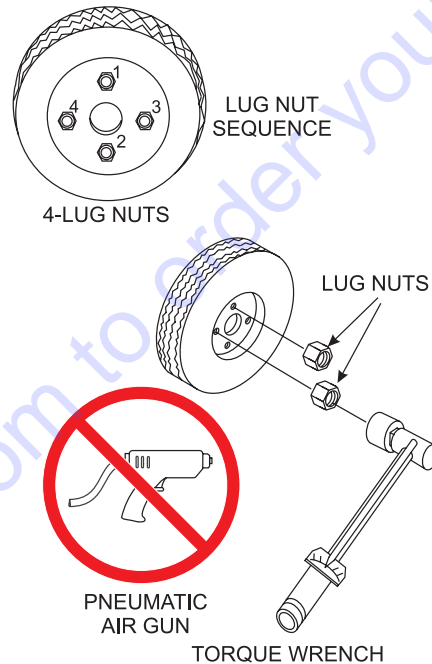


Figure 48. Lug Nut Torque Sequence

## LONG TERM STORAGE

- Drain the fuel tank completely or add STA-BIL to the fuel.
- Remove spark plug and pour a few drops of motor oil into cylinder. Crank engine 3 to 4 times so that oil reaches all internal parts.
- Clean exterior with a cloth soaked in clean oil.
- Remove the battery.
- Place fuel valve lever in the **OFF** position.
- Store unit covered with plastic sheet in moisture and dust-free location out of direct sunlight.

### CAUTION

**NEVER** store the power buggy with fuel in the tank for any extended period of time. **ALWAYS** clean up spilled fuel immediately.

# TROUBLESHOOTING

Troubleshooting (Power Buggy)		
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. Clean system.
	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 necessary.
	Dump cylinder is internally bypassing oil?	Replace dump cylinder or seal.
	Dump valve pressure low?	Check dump valve relief pressure. Pressure should be 1000 psi $\pm$ 50 psi.
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.
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 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.

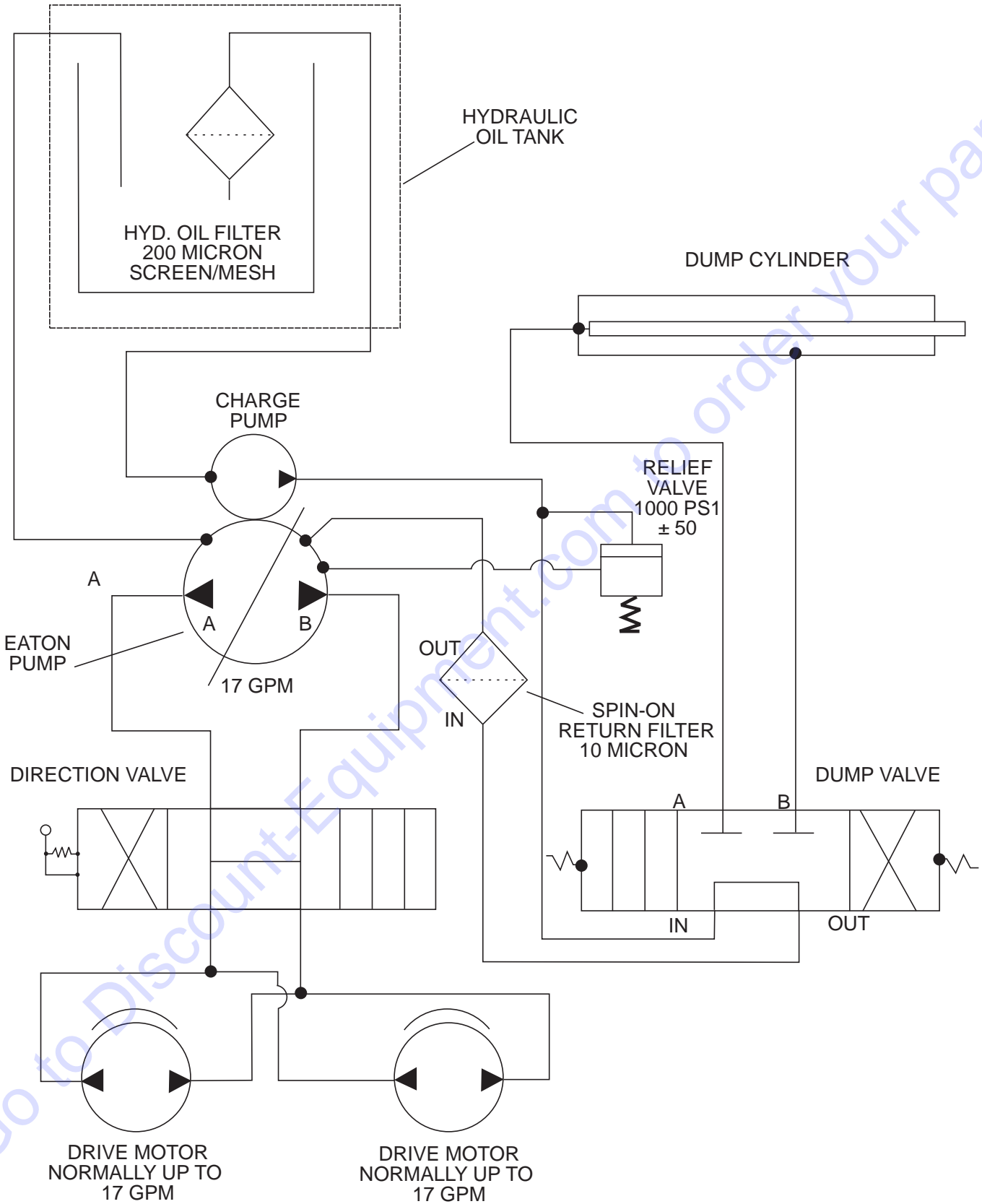
# TROUBLESHOOTING

Troubleshooting (Engine)		
Symptom	Possible Problem	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.
	Spark plug is red?	Check transistor ignition unit.
	Spark plug is bluish white?	If insufficient compression, repair or replace engine. If injected air leaking, correct leak. If carburetor jets clogged, clean carburetor.
	No spark present at tip of spark plug?	Check if transistor ignition unit is broken, and replace defective unit. Check if voltage cord cracked or broken and replace. Check if spark plug if fouled and replace.
	No oil?	Add oil as required.
	Oil pressure alarm lamp blinks upon starting? (if applicable)	Check automatic shutdown circuit, "oil sensor". (if applicable)
Difficult to start, fuel is available, and spark is present at the spark plug.	ON/OFF switch is shorted?	Check switch wiring, replace switch.
	Ignition coil defective?	Replace ignition coil.
	Improper spark gap, points dirty?	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, replace with correct type of fuel.
	Water or dust in fuel system?	Flush fuel system.
	Air cleaner dirty?	Clean or replace air cleaner.
	Choke open?	Close choke.
Difficult to start, fuel is available, spark is present and compression is low.	Suction/exhaust valve stuck or protruded?	Reseat 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.	No fuel 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/lines clogged?	Replace fuel filter.
	Fuel tank cap breather hole clogged?	Clean or replace fuel tank cap.
	Air in fuel line?	Bleed fuel line.

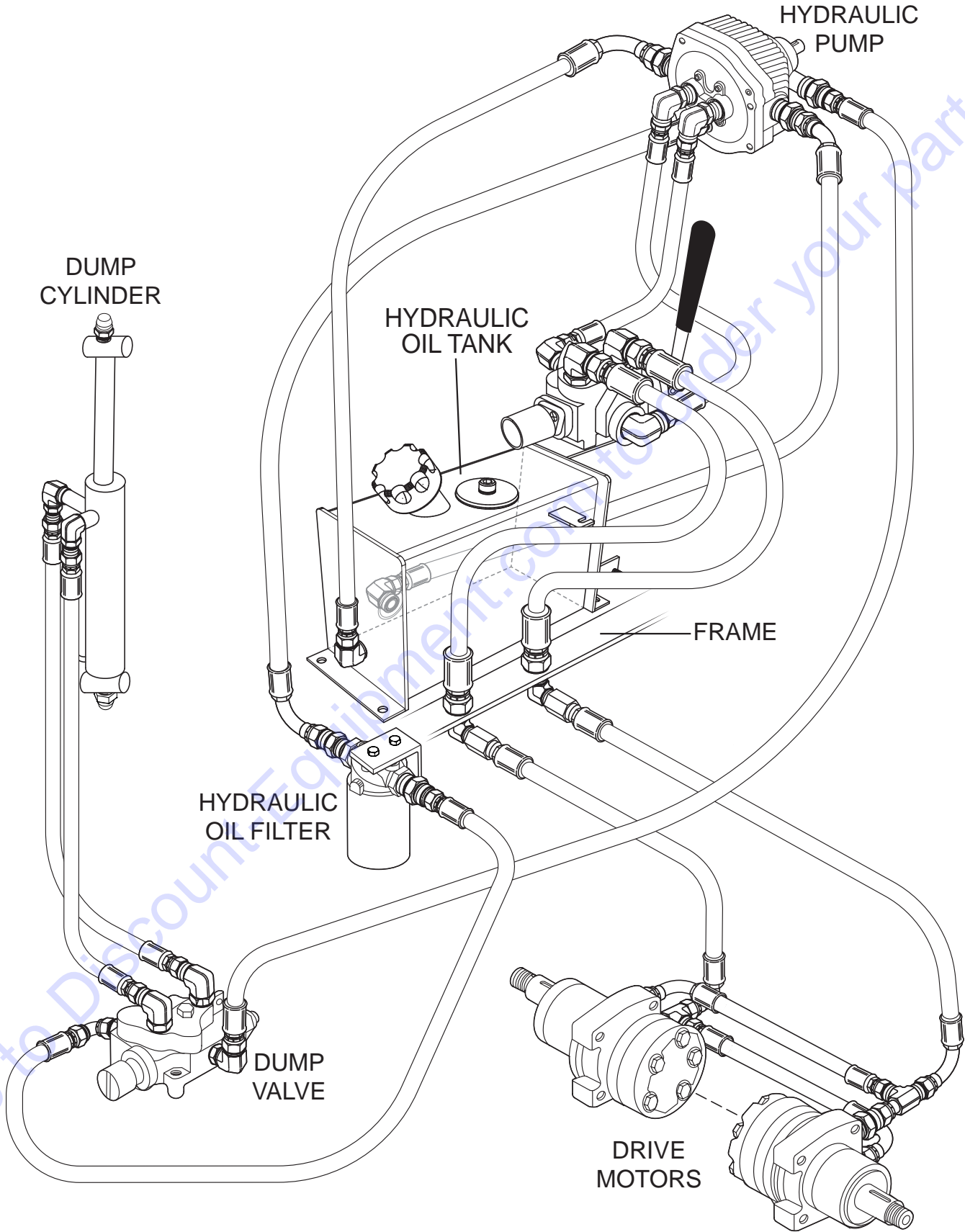
# TROUBLESHOOTING

Troubleshooting (Engine) - continued		
Symptom	Possible Problem	Solution
Weak in power, compression is proper and does not misfire.	Air cleaner dirty?	Clean or replace air cleaner.
	Improper level in carburetor?	Check float adjustment, rebuild carburetor.
	Defective spark plug?	Clean or replace spark plug.
	Improper spark plug?	Set to proper gap.
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	Wrong type of fuel?	Replace with correct type of fuel.
	Cooling fins dirty?	Clean cooling fins.
	Intake air restricted?	Clear intake of dirt and debris. Replace air cleaner elements as necessary.
	Oil level too low or too high?	Adjust oil to proper level.
Rotational speed fluctuates.	Governor adjusted incorrectly?	Adjust governor.
	Governor spring defective?	Replace governor spring.
	Fuel flow restricted?	Check entire fuel system for leaks or clogs.
Recoil starter malfunctions. (if applicable)	Recoil mechanism clogged with dust and dirt?	Clean recoil assembly with soap and water.
	Spiral spring loose?	Replace spiral spring.
Starter malfunctions.	Loose, damaged wiring?	Ensure tight, clean connections on battery and starter.
	Battery insufficiently charged?	Recharge or replace battery.
	Starter damaged or internally shorted?	Replace starter.
Burns too much fuel.	Over-accumulation of exhaust products?	Check and clean valves. Check muffler and replace if necessary.
	Wrong spark plug?	Replace spark plug with manufacturer's suggested type.
Exhaust color is continuously "white".	Lubricating oil is wrong viscosity?	Replace lubricating oil with correct viscosity.
	Worn rings?	Replace rings.
Exhaust color is continuously "black".	Air cleaner clogged?	Clean or replace air cleaner.
	Choke valve set to incorrect position?	Adjust choke valve to correct position.
	Carburetor defective, seal on carburetor broken?	Replace carburetor or seal.
	Poor carburetor adjustment, engine runs too rich?	Adjust carburetor.
Will not start, no power with key "ON". (if applicable)	ON/OFF device not activated ON?	Turn on ON/OFF device.
	Battery disconnected or discharged?	Check cable connections. Charge or replace battery
	Ignition switch/wiring defective?	Replace ignition switch. Check wiring.

# HYDRAULIC SYSTEM DIAGRAM



# HYDRAULIC HOSE CONNECTIONS





# PARTS FINDER

**Search Website  
by Part Number**



**Search Manual  
Library For Parts  
Manual & Lookup Part  
Numbers – Purchase  
or Request Quote**

**Search Manuals**

Enter your information to help us find the right parts manual for your machine.

\* Brand:

\* Model:

\* Serial:

\* Part Number:

SEARCH

**Can't Find Part or  
Manual? Request Help  
by Manufacturer,  
Model & Description**

**Parts Order Form**

Please fill in the following information to help us find the right part for your machine.

MANUFACTURER:

MODEL:

DESCRIPTION:

DATE:

TIME:

PHONE:

EMAIL:

ADDRESS:

CITY:

STATE:

ZIP:

COUNTRY:

SEARCH

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

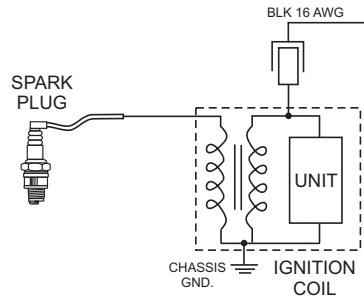
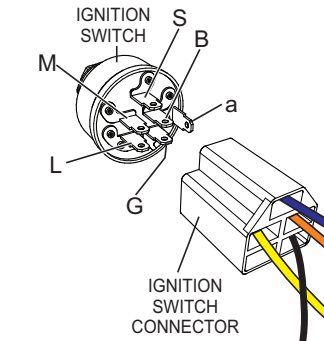
**Need parts?**

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

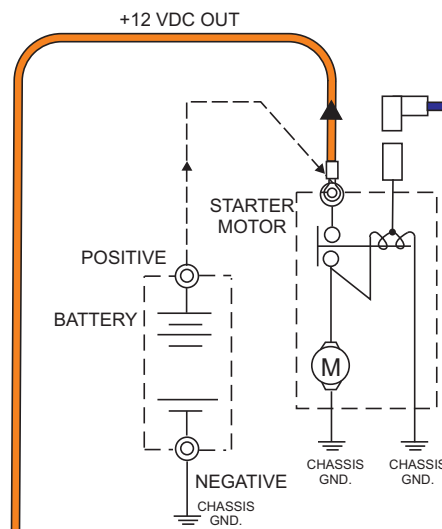
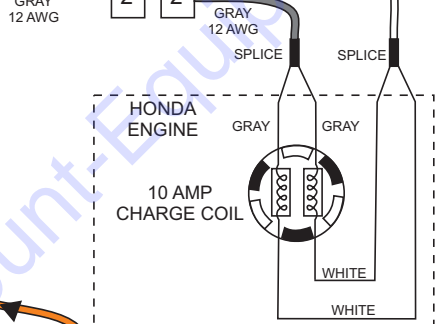
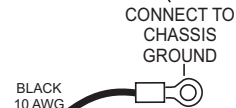
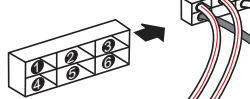
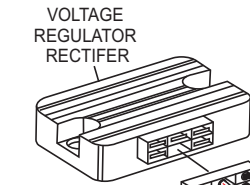
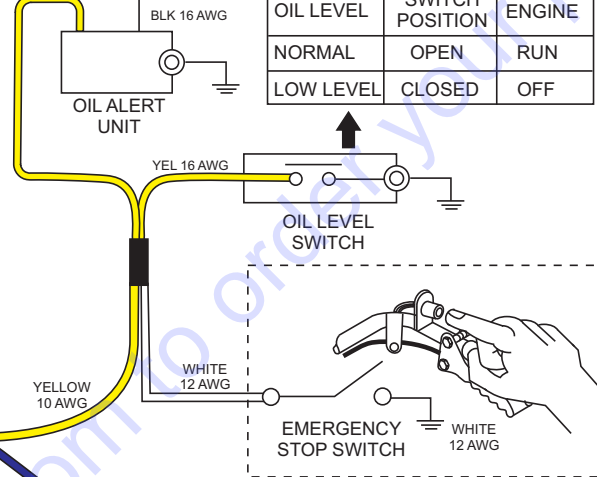
We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar

# WIRING DIAGRAM

IGNITION SWITCH	
POSITION	CIRCUIT MAKE
OFF	G+M+A
RUN	B+L+A
START	B+L+S



OIL LEVEL SWITCH		
OIL LEVEL	SWITCH POSITION	ENGINE
NORMAL	OPEN	RUN
LOW LEVEL	CLOSED	OFF



ARROW ► INDICATES FLOW



# EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

**NOTICE**

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

## SAMPLE PARTS LIST

NO.	PART NO.	PART NAME	QTY.	REMARKS
1	12345	BOLT .....	1	INCLUDES ITEMS W/%
2%		WASHER, 1/4 IN. ....		NOT SOLD SEPARATELY
2%	12347	WASHER, 3/8 IN. ...	1	MQ-45T ONLY
3	12348	HOSE .....	A/R	MAKE LOCALLY
4	12349	BEARING .....	1	S/N 2345B AND ABOVE

## NO. Column

**Unique Symbols** — All items with same unique symbol (@, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the “Remarks” column.

**Duplicate Item Numbers** — Duplicate numbers indicate multiple part numbers, which are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.

**NOTICE**

When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

## PART NO. Column

**Numbers Used** — Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at the time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the “Remarks” Column.

## QTY. Column

**Numbers Used** — Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the “Remarks” Column.

## REMARKS Column

Some of the most common notes found in the “Remarks” Column are listed below. Other additional notes needed to describe the item can also be shown.

**Assembly/Kit** — All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

“INCLUDES ITEMS W/(unique symbol)”

**Serial Number Break** — Used to list an effective serial number range where a particular part is used.

Indicated by:

“S/N XXXXX AND BELOW”

“S/N XXXX AND ABOVE”

“S/N XXXX TO S/N XXX”

**Specific Model Number Use** — Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

“XXXXX ONLY”

“NOT USED ON XXXX”

**“Make/Obtain Locally”** — Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

**“Not Sold Separately”** — Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

## SUGGESTED SPARE PARTS

### WBH16 SERIES POWER BUGGY

1 to 3 units

Qty.	P/N	Description
1	508667	FILTER, HYDRAULIC OIL
1	EM16477	CAP, HYDRAULIC OIL TANK
1	18035	PUMP, HYDRAULIC
1	18051	COUPLING, ENGINE SHAFT
2	512881	BRAKE BAND ASSY.
1	18145	ROD, BRAKE CONTROL
1	18166	CAP, FUEL (NON EPA, 4-IN)
1	520820	CAP, FUEL (EPA, 2-IN)
5	EM20763	FILTER, IN-LINE FUEL
1	18131	SWITCH, KILL
1	18133	CABLE, THROTTLE
1	18132	LEVER, THROTTLE
1	18029	WHEEL, DRIVE, PNEUMATIC
1	18029F	WHEEL, DRIVE, FOAM
1	18049	WHEEL, STEERING, PNEUMATIC
1	18049F	WHEEL, STEERING, FOAM
1	18016	CABLE, PARK BRAKE

#### NOTICE

Part numbers on this Suggested Spare Parts list may supersede/replace the part numbers shown in the following parts lists.

### ENGINE HONDA GX390RT2QTT (RECOIL START)

1 to 3 units

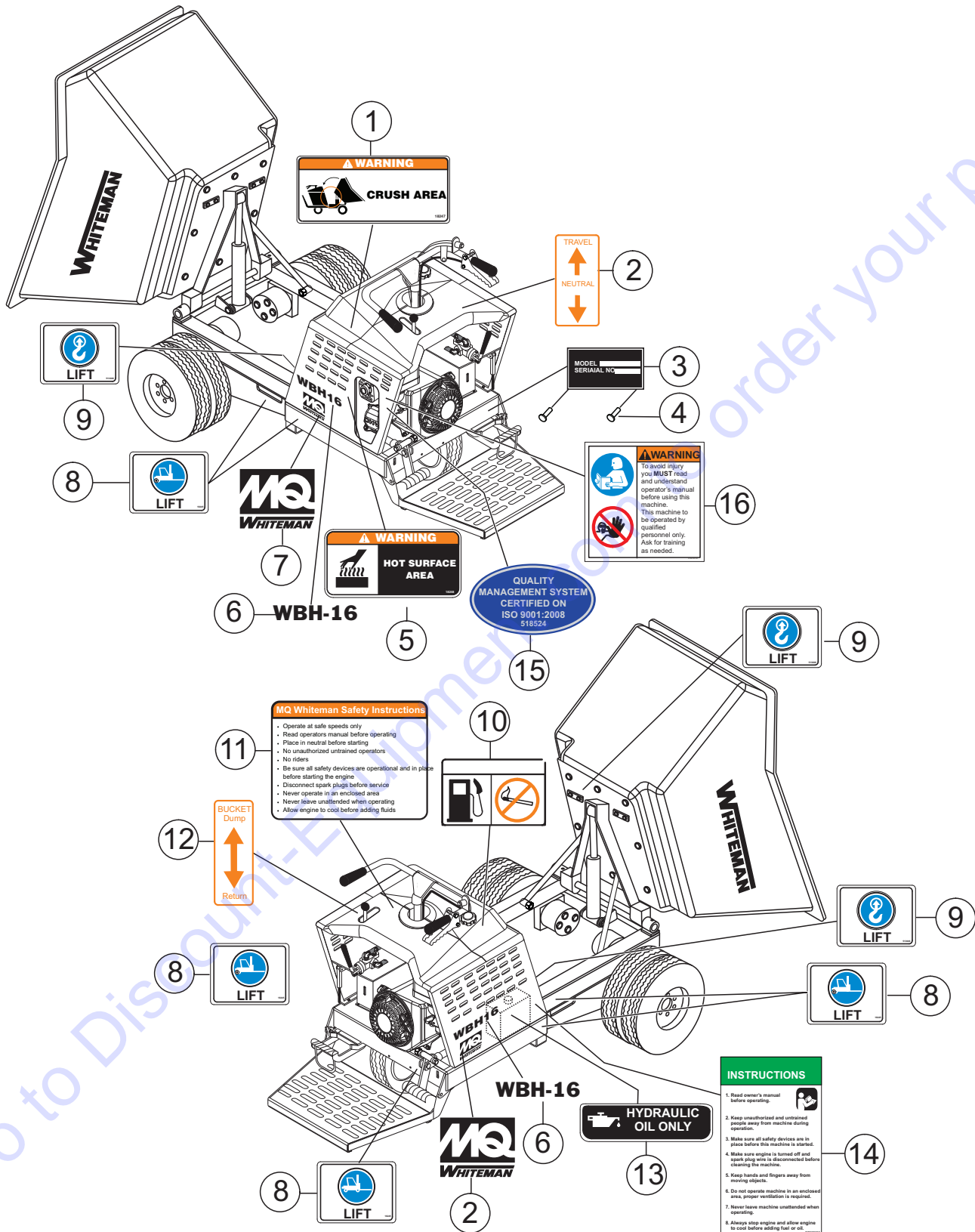
Qty.	P/N	Description
3	9807955846	SPARK PLUG
3	11078	KEY, IGNITION SWITCH
3	828461Z5T305	GRIP, STARTER
1	28462ZE3W01	ROPE, STARTER
3	17210ZE3010	AIR FILTER, ELEMENT
3	17218ZE3000	AIR FILTER, OUTER

### ENGINE HONDA GX390RT2QNB2 (ELECTRIC START)

1 to 3 units

Qty.	P/N	Description
3	9807955846	SPARK PLUG
3	11078	KEY, IGNITION
3	17210ZE3505	AIR FILTER, ELEM. (DUAL)
3	17218ZE3505	AIR FILTER, OUTER

# NAMEPLATE AND DECALS ASSY.



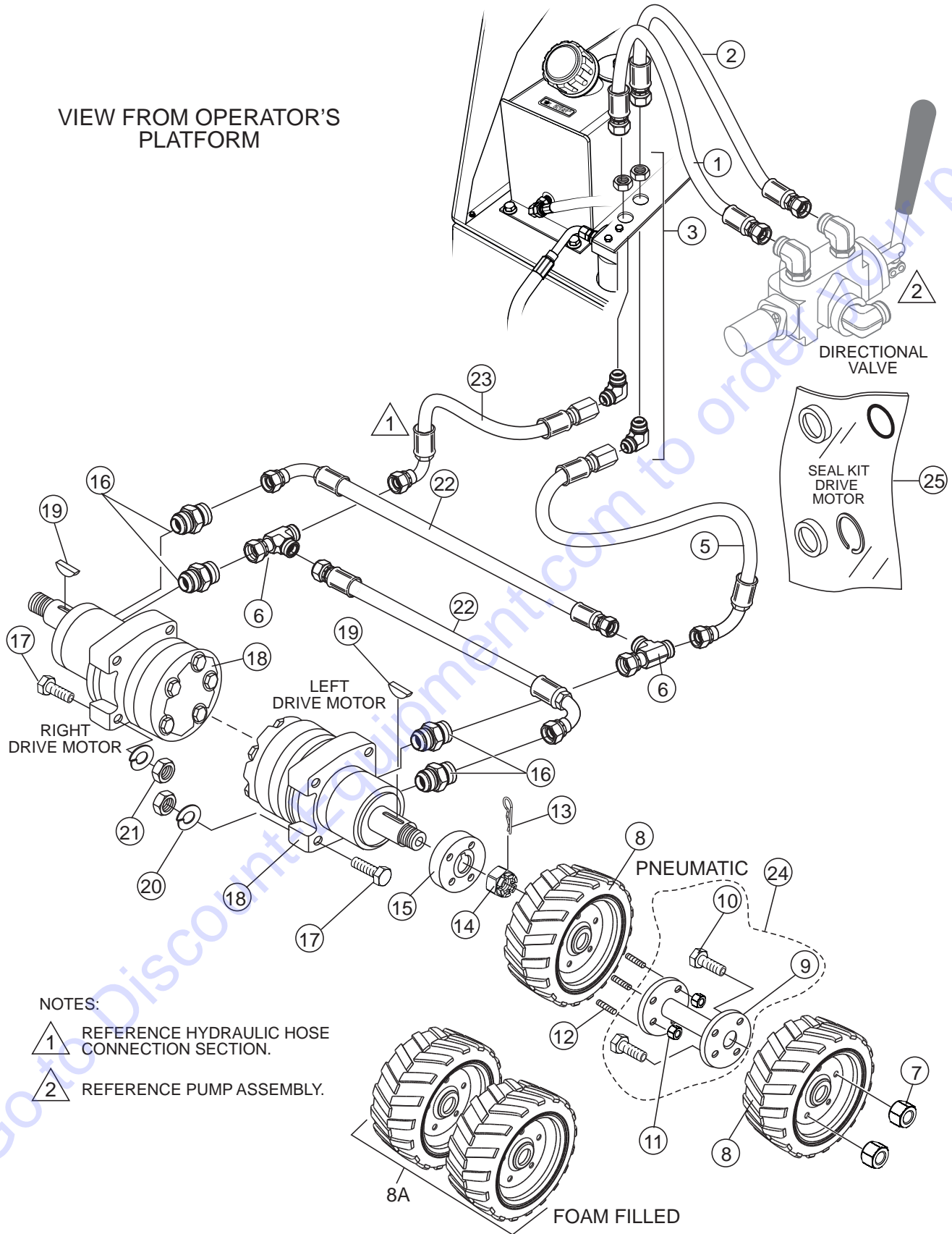
## NAMEPLATE AND DECALS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18247	DECAL, CRUSH WARNING	1	
2		DECAL, TRAVEL LEVER DIRECTION.....	1.....	MOLDED INTO FUEL TANK COVER
3		PLATE, SERIAL NUMBER.....	1.....	CONTACT DISCOUNT-EQUIPMENT
4	491757	RIVET, I.D. PLATE	2	
5	18248	DECAL, HOT SURFACE WARNING	1	
6	18251	DECAL, WBH-16	2	
7	18252	DECAL, MQ WHITEMAN	2	
8	18245	DECAL, FORKLIFT LIFTING	6	
9	513608	DECAL, LIFTING HOOK	3	
10		DECAL, GASOLINE ONLY .....	1.....	MOLDED INTO FUEL TANK COVER
11		DECAL, WHITEMAN SAFETY INSTRUCTIONS.....	1.....	MOLDED INTO FUEL TANK COVER
12		DECAL, BUCKET DUMP LEVER.....	1.....	MOLDED INTO FUEL TANK COVER
13	EM985	DECAL, HYDRAULIC OIL	1	
14	520935	DECAL, SAFETY INSTRUCTIONS	1	
15	518524	DECAL, ISO 9001:2008	1	
16	35137	DECAL, READ MANUAL, ASK FOR TRAINING	1	

Go to Discount-Equipment.com to order your parts

# HYDRAULIC DRIVE ASSY.

VIEW FROM OPERATOR'S PLATFORM



NOTES:

1 REFERENCE HYDRAULIC HOSE CONNECTION SECTION.

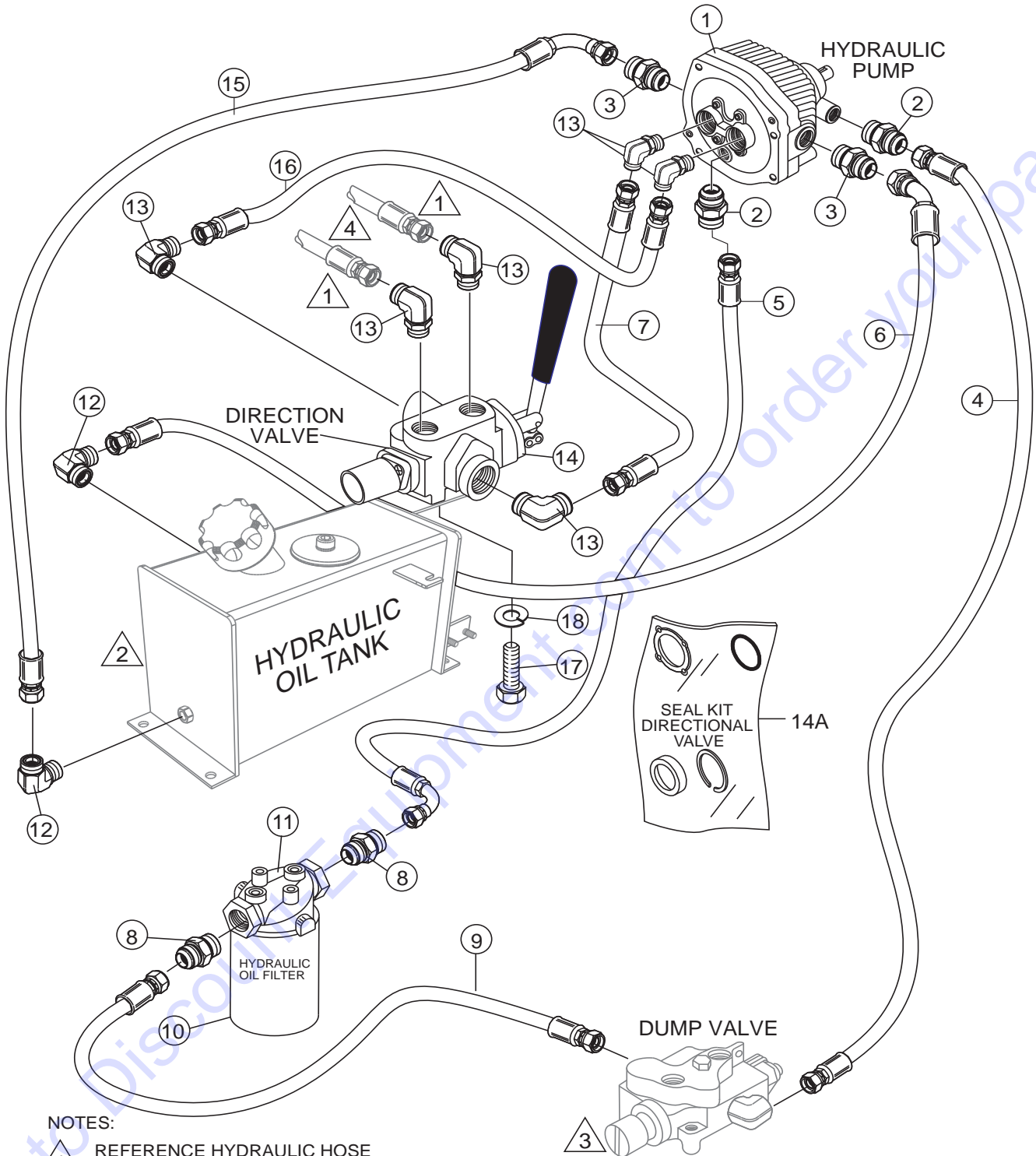
2 REFERENCE PUMP ASSEMBLY.



## HYDRAULIC DRIVE ASSY.

<b>NO.</b>	<b>PART NO.</b>	<b>PART NAME</b>	<b>QTY.</b>	<b>REMARKS</b>
1	18265M	HOSE, DIRECTION VALVE .....	1	RIGHT-DRIVE MOTOR
2	18264M	HOSE, DIRECTION VALVE .....	1	LEFT-DRIVE MOTOR
3	511810	ADAPTER, ELBOW	2	
5	18276M	HOSE, LH HYDRAULIC MOTOR	1	
6	512189	ADAPTER, TEE CONNECTOR	2	
7	492527	NUT, HEX 1/2"-20	8	
8	18029	WHEEL, DRIVE ASSY. FRONT .....	4	PNEUMATIC TIRE
8A	18029F	WHEEL, DRIVE ASSY. FRONT .....	4	FOAM FILLED TIRE
9\$	511692	FLANGE, HUB	2	
10\$	18237	LUG BOLT/HUB FLANGE	8	
11	492584	NUT, HEX 1/2"-13 NYLON.....	8	REPLACES P/N 6109160
12	18190	SCREW, HUB STUD 1/2"-20 X 2-3/4"	8	
13	491689	KEY, COTTER 1/8" X 2	2	
14	PT018038	NUT, CASTLE 1-1/8"-18	2	
15	803281	HUB, DRIVE (INDEXED)	2	
16	3365	ADAPTER, STRAIGHT	4	
17	505718	SCREW, HHC 1/2"-13 X 2-3/4"	8	
18	18011	MOTOR, HYDRAULIC DRIVE	2	
19	3311	KEY, 7 MM X 8 MM X 1-1/4" .....	2	REPLACES P/N PE449105
20	6109180	WASHER, LOCK 1/2"	8	
21	6109160	NUT, HEX 1/2"-13	8	
22	18027	HOSE, DRIVER MOTOR CROSSOVER	2	
23	18275M	HOSE, RH HYDRAULIC MOTOR	1	
24	516528	FLANGE HUB ASSY.....	1	INCLUDES ITEMS W/\$
25	18011SK	SEAL KIT, DRIVE MOTOR	1	

# HYDRAULIC PUMP ASSY.



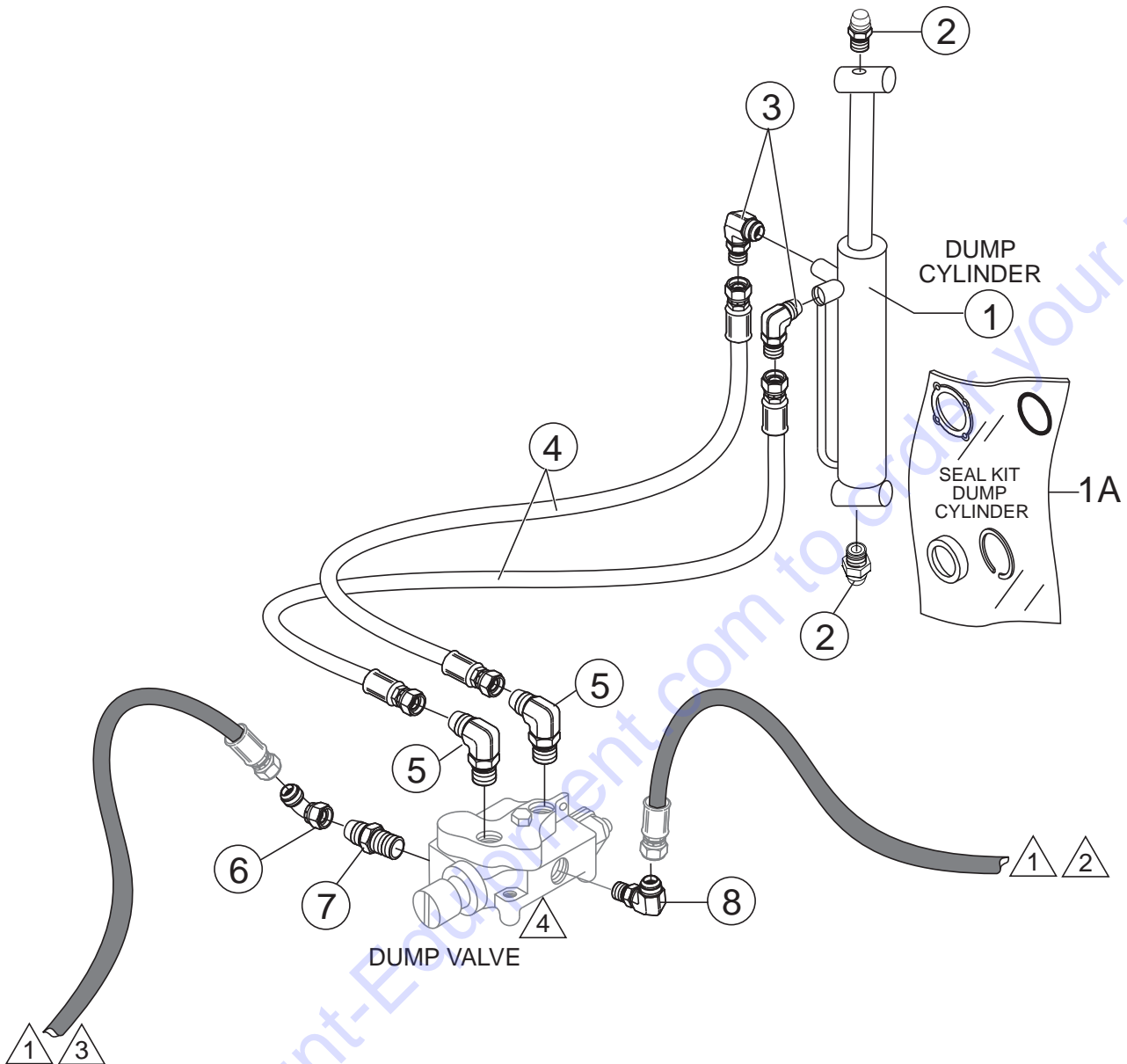
**NOTES:**

- 1 REFERENCE HYDRAULIC HOSE CONNECTION SECTION.
- 2 REFERENCE HYDRAULIC OIL TANK ASSEMBLY.
- 3 REFERENCE DUMP VALVE ASSEMBLY.
- 4 REFERENCE HYDRAULIC DRIVE ASSEMBLY ITEMS 1 AND 2 FOR HOSE PART NUMBERS

## HYDRAULIC PUMP ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18035	PUMP, HYDRAULIC	1	
2	511808	ADAPTER, STRAIGHT	2	
3	3365	ADAPTER, STRAIGHT	2	
4	18256M	HOSE, PUMP TO DUMP VALVE	1	
5	18258M	HOSE, FILTER TO PUMP	1	
6	18261M	HOSE, PUMP TO TANK	1	
7	18265M	HOSE, PUMP TO DIRECTION VALVE .....	1.....	REPLACES P/N 18263M
8	512190	ADAPTER, STRAIGHT	2	
9	18257M	HOSE, FILTER TO DUMP VALVE	1	
10	508667	FILTER, HYDRAULIC	1	
11	508664	HYDRAULIC FILTER HEAD	1	
12	511799	ADAPTER, ELBOW	2	
13	3322	ADAPTER, ELBOW	6	
14	18058	VALVE, DIRECTION CONTROL, TRAVEL	1	
14A	18058SK	SEAL KIT, DIRECTIONAL VALVE	1	
15	18262M	HOSE, TANK TO PUMP	1	
16	18266M	HOSE, PUMP TO DIRECTION VALVE	1	
17	EM963055	HEX HEAD CAP SCREW .....	2.....	REPLACES P/N 492373
18	0166 A	WASHER, LOCK 3/8" .....	2.....	REPLACES P/N 492624

# HYDRAULIC DUMP ASSY.



**NOTES:**

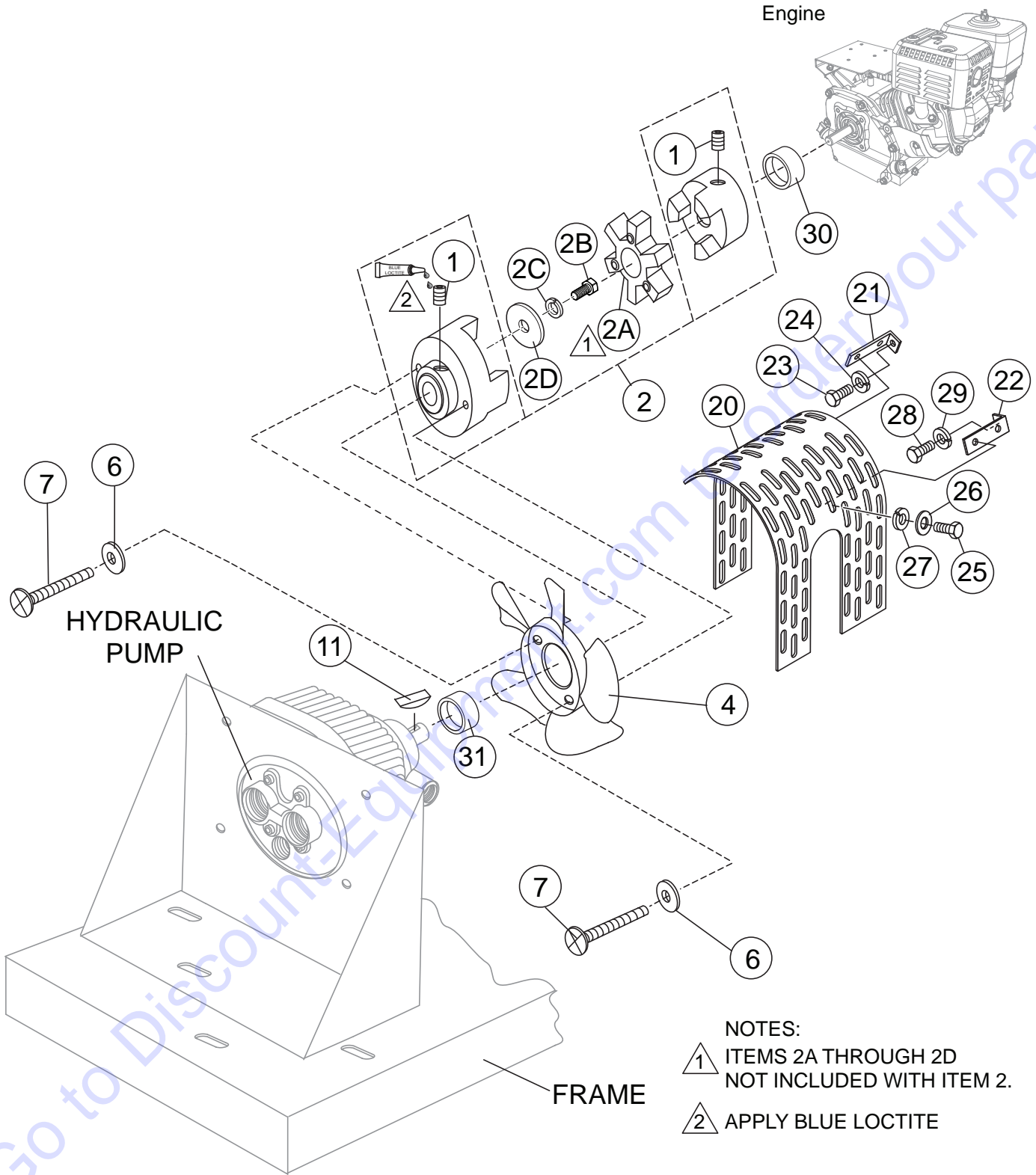
- 1** REFERENCE HYDRAULIC HOSE CONNECTION SECTION.
- 2** REFERENCE HYDRAULIC PUMP ASSEMBLY ITEM 4 FOR HOSE PART NUMBER.
- 3** REFERENCE HYDRAULIC PUMP ASSEMBLY ITEM 9 FOR HOSE PART NUMBER.
- 4** REFERENCE HANDLE/FOOT DUMP CONTROLS ASSEMBLY ITEM 8 FOR DUMP VALVE PART NUMBER.

## HYDRAULIC DUMP ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18022	CYLINDER, HYDRAULIC DUMP	1	
1A	18022SK	SEAL KIT, DUMP CYLINDER	1	
2	491705	ZERK FITTING	2	
3	511803	ADAPTER, ELBOW	2	
4	18020	HOSE, DUMP VALVE TO HYD. PISTON	2	
5	511804	ADAPTER, ELBOW MALE	2	
6	512234	ADAPTER, ELBOW	1	
7	511806	ADAPTER, STRAIGHT	1	
8	506191	ADAPTER, ELBOW	1	

Go to Discount-Equipment.com to order your parts

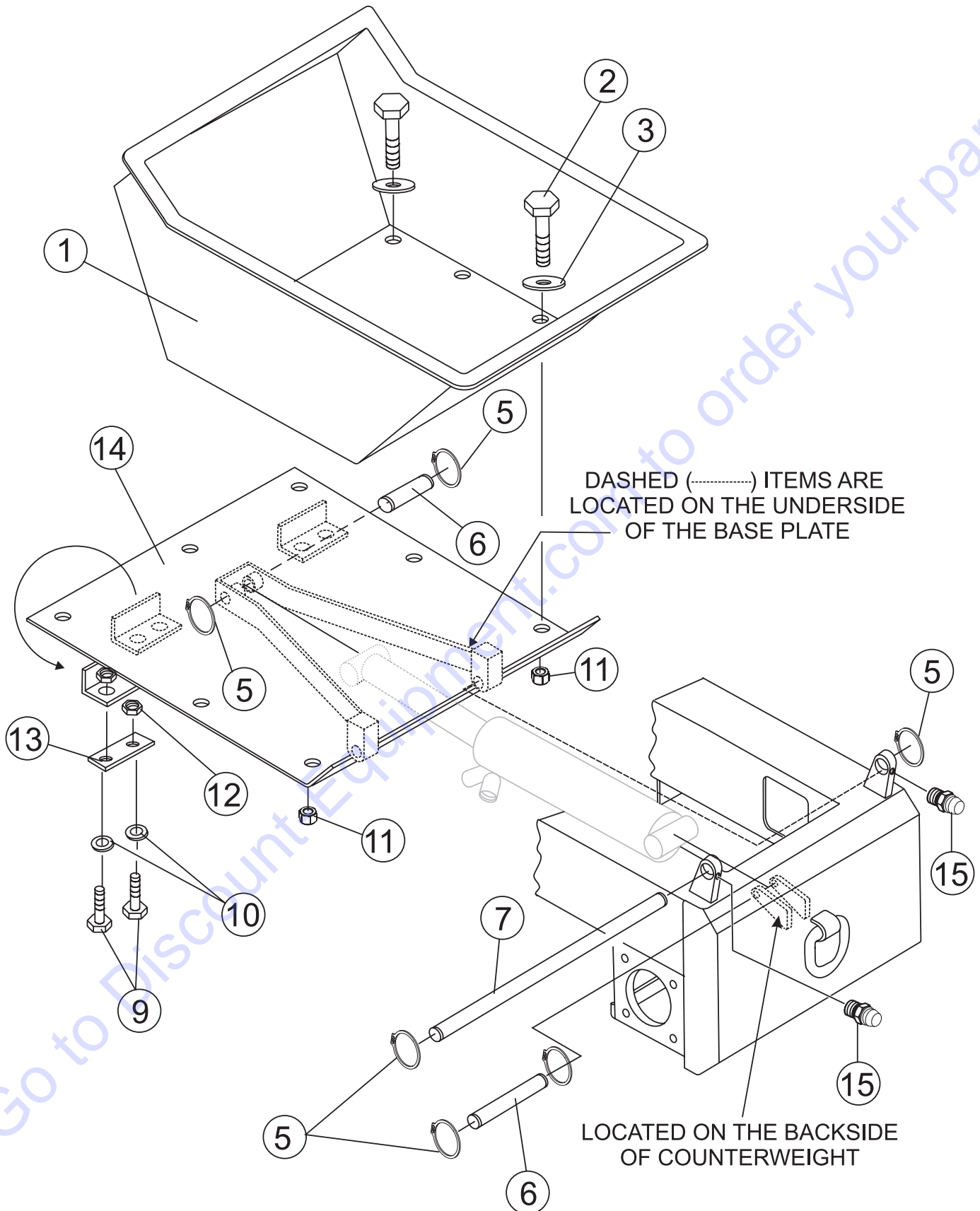
# PUMP AND COUPLING ASSY.



## PUMP AND COUPLING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1#	492472	SCREW, ALLEN HEAD 3/8"-16 X 3/4"	2	
2	18051	COUPLING, ENGINE SHAFT.....	1.....	INCLUDES ITEMS W/#
2A	18051RS	SPIDER, URETHANE	1	
2B	492356	SCREW, 1/4" X 3/4" GRD 5	1	
2C	492622	WASHER, LOCK 1/4"	1	
2D	EM923057	WASHER, FLAT 3/4".....	1.....	REPLACES P/N 504451
4	18112	FAN	1	
6	492596	WASHER, FLAT 1/4"	2	
7	492355	SCREW, HHC 1/4"-20 X 1/2"	2	
11	506250	KEY, WOODRUFF	1	
20	513761	FAN GUARD	1	
21	512493	BRACKET, LONG	1	
22	513737	BRACKET, SHORT	1	
23	492373	BOLT, C/H 3/8" X 3/4" NC GRD 5	1	
24	492624	WASHER, LOCK 3/8"	1	
25	512367	BOLT, C/H 3/16" X 1/2" NC GRD 2	4	
26	492595	WASHER, FLAT 3/16"	4	
27	492621	WASHER, LOCK 3/16"	4	
28	492438	BOLT, C/H 5/16" X 1" NF GRD 5	1	
29	492623	WASHER, LOCK 5/16"	1	
30	802442	LOCK COLLAR	1	
31	803009	BUSHING, HYDRAULIC PUMP	1	

# TUB ASSY.



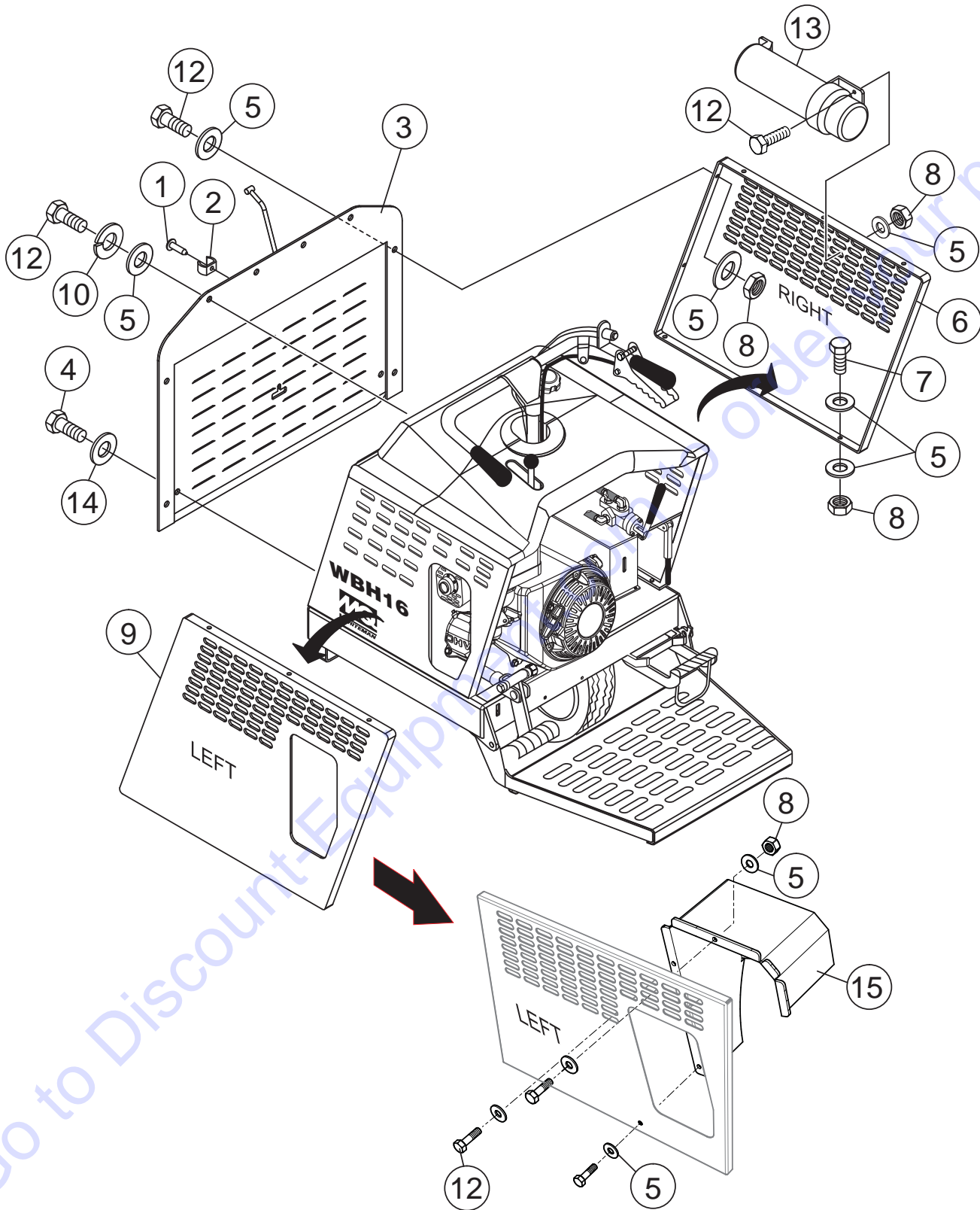


## TUB ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18004	TUB, PLASTIC, 16 CU. FT.	1	
2	492313	SCREW, HHC 3/8"-16 X 1-1/2"	9	
3	512193	WASHER, FLAT 3/8" LARGE	9	
5	490957	RING, SNAP	6	
6	18130	PIN, HYD. PISTON CROSS	2	
7	18129	PIN, TUB FRAME CROSS	1	
9	0202	SCREW, HHC 5/16"-18 X 1 ZINC.....	4.....	REPLACES P/N 492364
10	492597	WASHER, FLAT 9.5 X 22.2	8	
11	492583	NUT, NYLOC 3/4"-16	9	
12	492582	NUT, NYLOC 5/16"-18	4	
13	512279	SUPPORT, BUM STOP	2	
14	18099	FRAME, TUB MOUNT, 16 CU. FT.	1	
15	EM916019	GREASE FITTING.....	2.....	REPLACES P/N 491705

Go to Discount-Equipment.com to order your parts

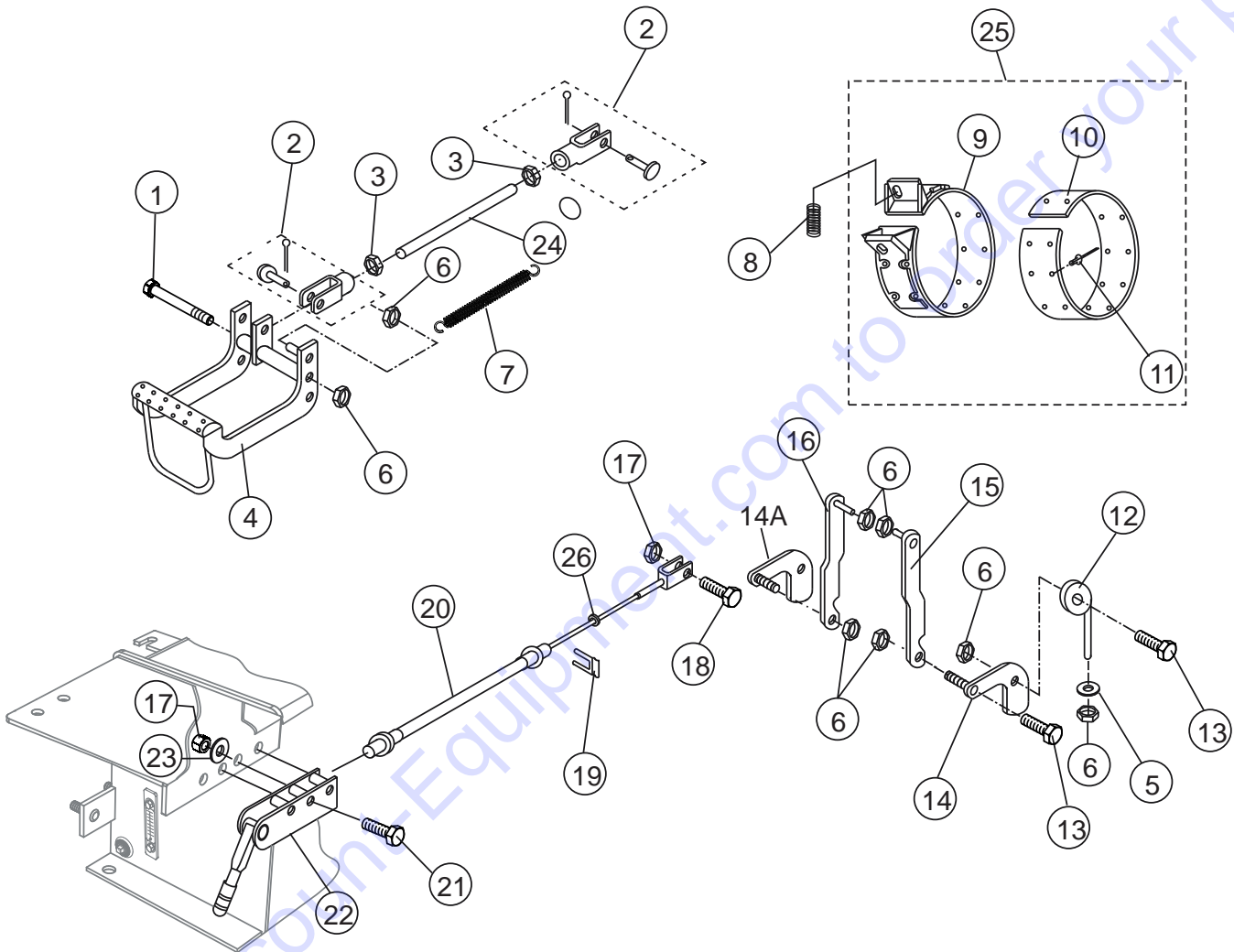
# PANEL ASSY.



## PANEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	503978	POP RIVET AM-56	1	
2	511474	FASTENER, ACCESS DOOR	1	
3	18008	DOOR, ACCESS	1	
4	492355	SCREW, 1/4" X 1/2" NC GRD 5	2	
5	492597	WASHER, FLAT 3/8"	32	
6	18141	COVER, RIGHT/SIDE ENGINE	1	
7	492364	SCREW, HHC 5/16"-18 X 1	6	
8	492582	NUT, NYLOC 5/16"-18	9	
9	801026	COVER, LEFT/SIDE ENGINE	1	
10	492623	WASHER, LOCK 5/16"	4	
12	492363	SCREW, HHC 5/16" X 3/4" NC GRD 5	10	
13	23297	MANUAL HOLDER	1	
14	EM923057	WASHER, 1/4" .....	4.....	REPLACES P/N 492596
15	802755	MUFFLER DEFLECTOR	1	

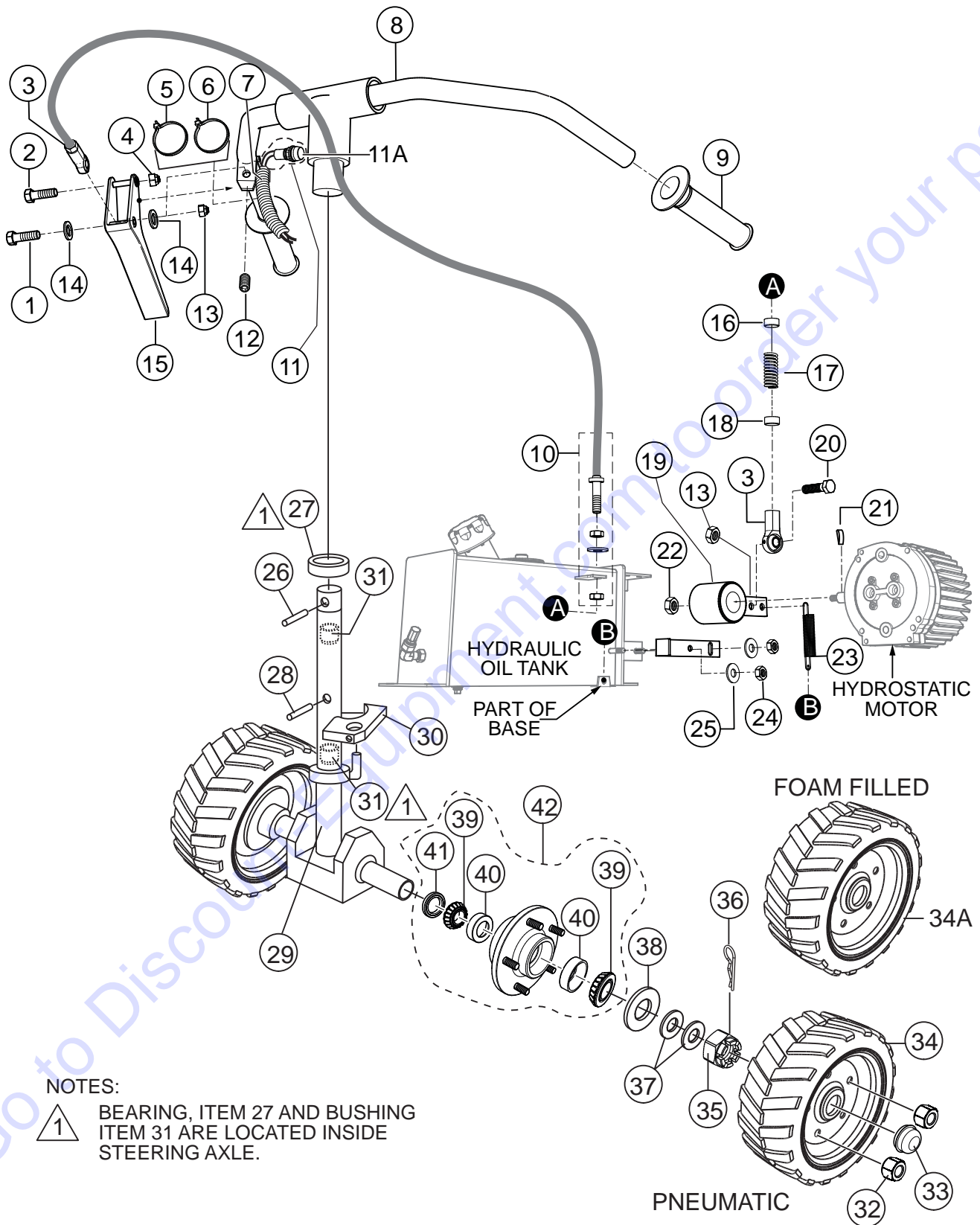
# BRAKE ASSY.



## BRAKE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	511762	SCREW, HHC 1/2"-13 X 8	1	
2	511698	CLEVIS, ASSY. BRAKE	2	
3	492574	NUT, HEX 3/8"-24 NF	2	
4	18111	PEDAL, BRAKE	1	
5	621	WASHER, FLAT 1/2"	1	
6	492584	NUT, NYLOC 1/2"-13	10	
7	18167	SPRING, BRAKE PEDAL	1	
8	18307	SPRING, BRAKE	2	
9\$		BAND, BRAKE.....	2.....	NOT SOLD SEPARATELY
10\$		LINING, BRAKE.....	2.....	NOT SOLD SEPARATELY
11\$	503723	RIVET, BRAKE LINING	56	
12	18303	SHAFT, CRANK PIN	2	
13	492395	SCREW, HHC 1/2"-13 X 1-3/4"	2	
14	512602	BRAKE LEVER, LEFT	1	
14A	512601	BRAKE LEVER, RIGHT	1	
15	18032	LINKAGE, RIGHT BRAKE	1	
16	18314	LINKAGE, LEFT BRAKE	1	
17	492582	NUT, NYLOC 5/16"	3	
18	492365	SCREW, HHC 5/16" X 1-1/4" NC GRD 5	1	
19	505170	CLIP, PARK CABLE	1	
20	18016	CABLE, PARK BRAKE	1	
21	492367	SCREW, HHC 5/16"-18 X 1-3/4"	3	
22	18057	LEVER, ASSY. PARK BRAKE	1	
23	492597	WASHER, FLAT 3/8"	6	
24	18145	ROD, BRAKE CONTROL	1	
25	512881	BRAKE BAND ASSY.....	2.....	INCLUDES ITEMS W/\$
26	492600	WASHER, FLAT 1/2"	2	

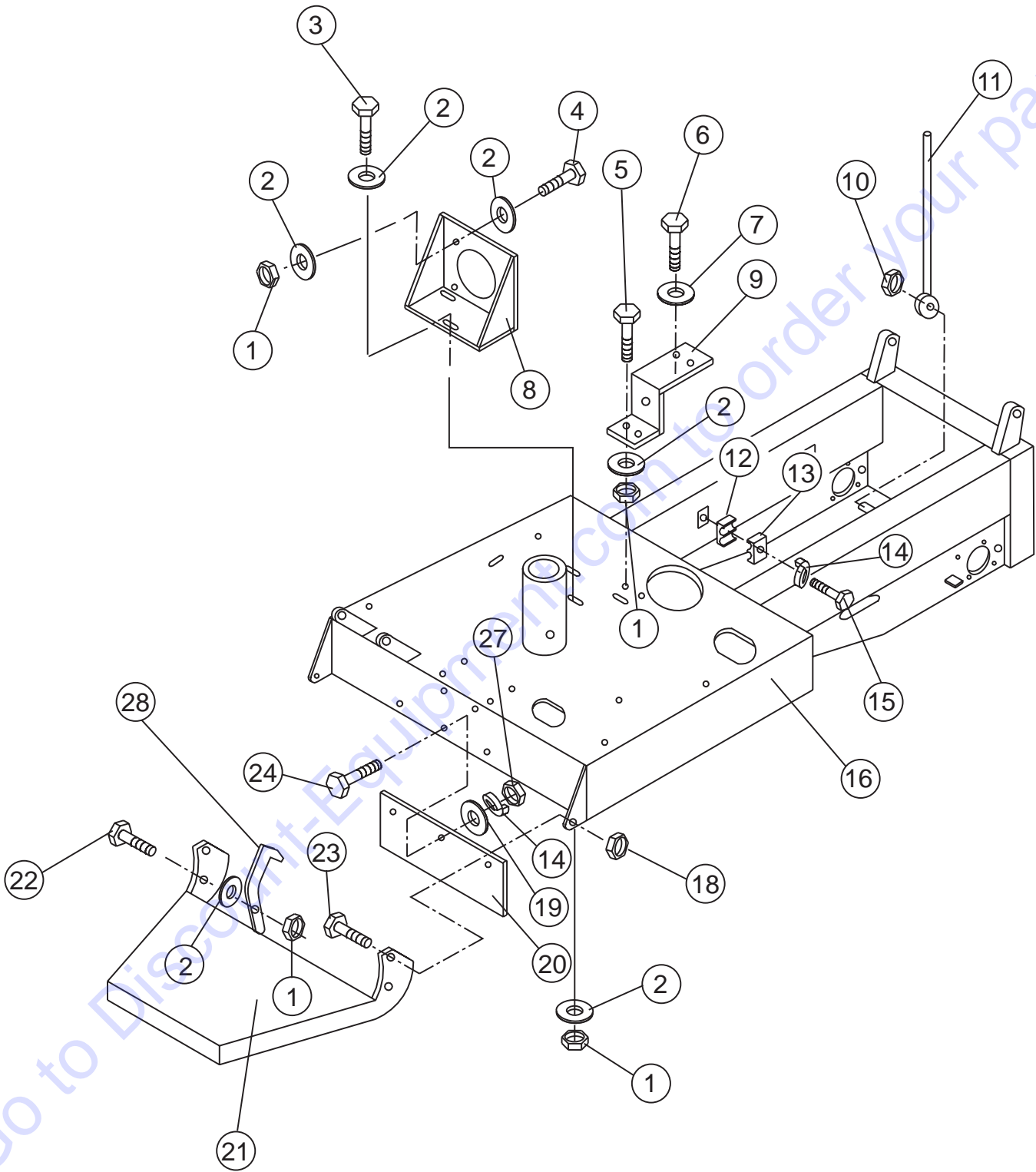
# STEERING AND CONTROLS ASSY.



## STEERING AND CONTROLS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	2508	SCREW, HHC 1/4"-20 X 2-1/4".....	1.....	REPLACES P/N 512414
2	492369	SCREW, HHC 5/16"-18 X 2-1/4"	1	
3	18183	ROD-END, THROTTLE CABLE	2	
4	492582	NUT, NYLOC 5/16"-18	1	
5	504505	WRAP, TIE 4.6 X 360 MM	1	
6	491030	WRAP, TIE 2.5 X 142 MM	2	
7	505304	COVER, WIRE (LOOM)	1	
8	18242	HANDLE BAR	1	
9	15081	GRIP, HANDLE	2	
10	18133	CABLE, THROTTLE	1	
11	515417	SWITCH HARNESS ASSY.	1	
11A	18131	SWITCH, KILL .....	1.....	REPLACES P/N 18025
12	492465	SCREW, ALLEN HEAD 1/4"-20 X 3/8"	1	
13	492581	NUT, NYLOC 1/4"-20	2	
14	509161	WASHER, FLAT 5/16"	2	
15	18132	LEVER, THROTTLE	1	
16	18182	BUSHING, CABLE	1	
17	18176	SPRING	1	
18	18181	BUSHING, CABLE	1	
19	18061	LEVER, CONTROL	1	
20	492357	SCREW, HHC 1/4"-20 X 1	1	
21	511717	KEY, WOODRUFF 1/8" X 5/8"	1	
22	492584	NUT, NYLOC 1/2"-13	1	
23	18177	SPRING	1	
24	492583	NUT, NYLOC 3/8"	2	
25	492598	WASHER, FLAT 3/8"	2	
26	491723	PIN, STEERING SHAFT	1	
27	18238	BEARING, STEERING SHAFT	1	
28	512186	PIN, STEERING SHAFT	1	
29	513360	STEERING COLUMN	1	
30	803151	STOP, STEERING	1	
31	512200	BUSHING, BRONZE	2	
32	8115	NUT LUG	8	
33	3469	CAP, DUST	2	
34	18049	WHEEL, STEERING ASSY. REAR.....	2.....	PNEUMATIC TIRE
34A	18049F	WHEEL, STEERING ASSY. REAR.....	2.....	FOAM FILLED TIRE
35	512210	NUT, CASTLE	2	
36	491688	PIN, COTTER 1/8" X 1-1/2"	2	
37	EM501299	WASHER, REAR WHEEL HUB	4	
38	511159	WASHER, FLAT 1"	2	
39#	EM903113	BEARING CONE	4	
40#	EM903012	BEARING CUP	4	
41#	15191VB	SEAL	2	
42	EM941306	HUB, REAR WHEEL.....	2.....	INCLUDES ITEMS W/#

# CHASSIS ASSY.

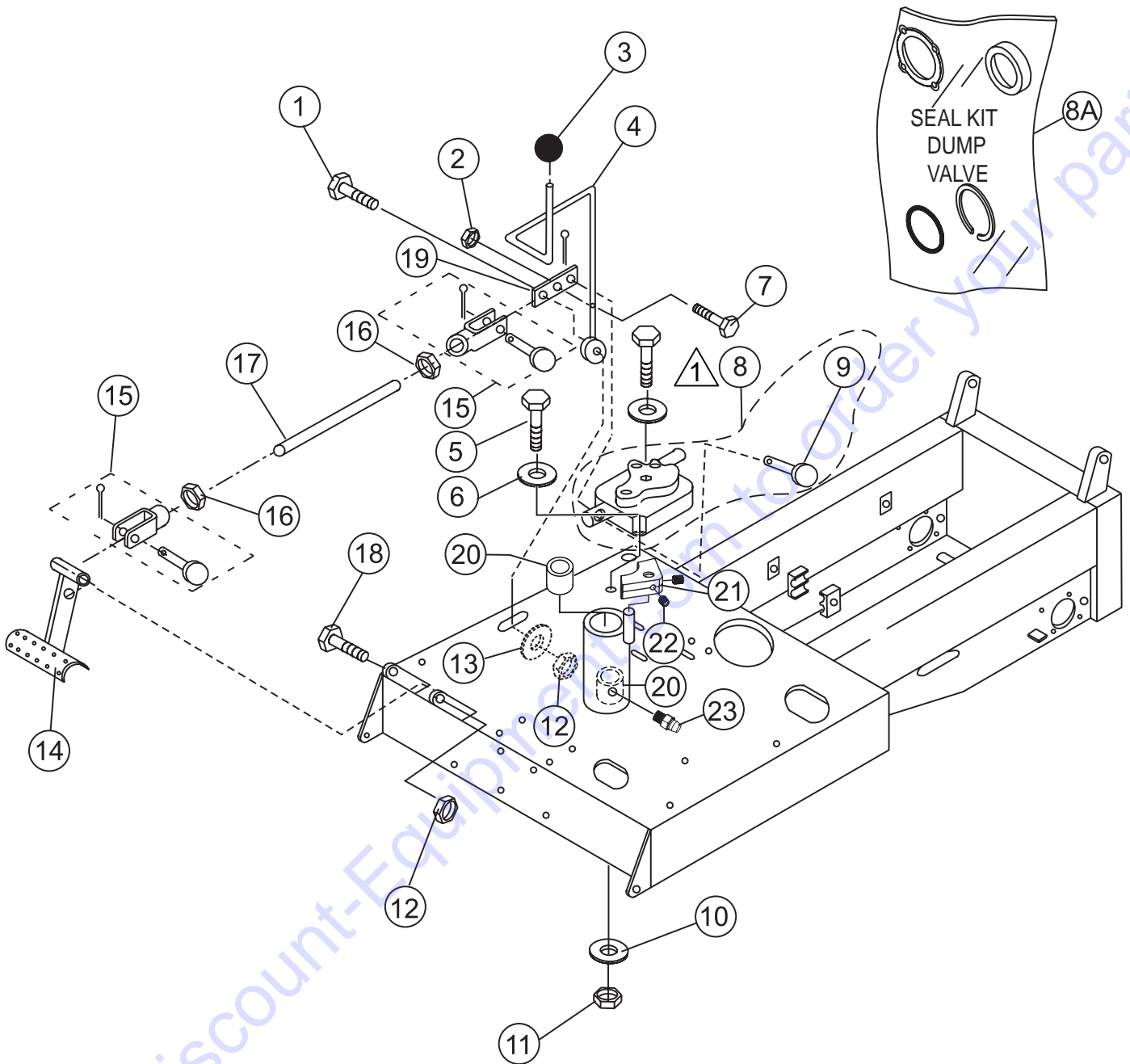




## CHASSIS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	492583	NUT, NYLOC 3/8"	10	
2	492598	WASHER, FLAT 3/8"	18	
3	492313	SCREW, HHC 3/8"-16 X 1-1/2"	3	
4	503112	SCREW, HHC 3/8"-16 X 2-3/4"	4	
5	EM963610	CAP SCREW 3/8" X 1-1/4" NC GRD 8.....	2.....	REPLACES P/N 492375
6	492356	SCREW, HHC 1/4" X 3/4" NC GRD 5	2	
7	492622	WASHER, LOCK 1/4"	2	
8	512196	BRACKET, HYD. PUMP MOUNTING	1	
9	18146	MOUNT, OIL FILTER	1	
10	505069	NUT, NYLOC 3/4"-10	1	
11	18198	ROD, TUB PROP	1	
12	505976	CLAMP, BRACKET	2	
13	506185	CLAMP, BRACKET	2	
14	492623	WASHER, LOCK 5/16"	5	
15	492366	SCREW, HHC 5/16"-18 X 1-1/2"	2	
16	18047	CHASSIS	1	
18	492586	NUT, NYLOC 5/8"-11	2	
19	492597	WASHER, FLAT 9.5 X 22.2	3	
20	18162	PANEL, REAR WHEEL COVER	1	
21	18222	PLATFORM, OPERATOR	1	
22	492313	SCREW, HHC 3/8"-16 X 1-1/2"	1	
23	492406	SCREW, HHC 5/8"-11 X 1-1/2"	2	
24	492363	SCREW, HHC 5/16"-18 X 3/4"	3	
27	2105164	NUT, 5/16".....	3.....	REPLACES P/N 492553
28	18173	LATCH, PLATFORM	1	

# HANDLE/FOOT DUMP CONTROLS ASSY.

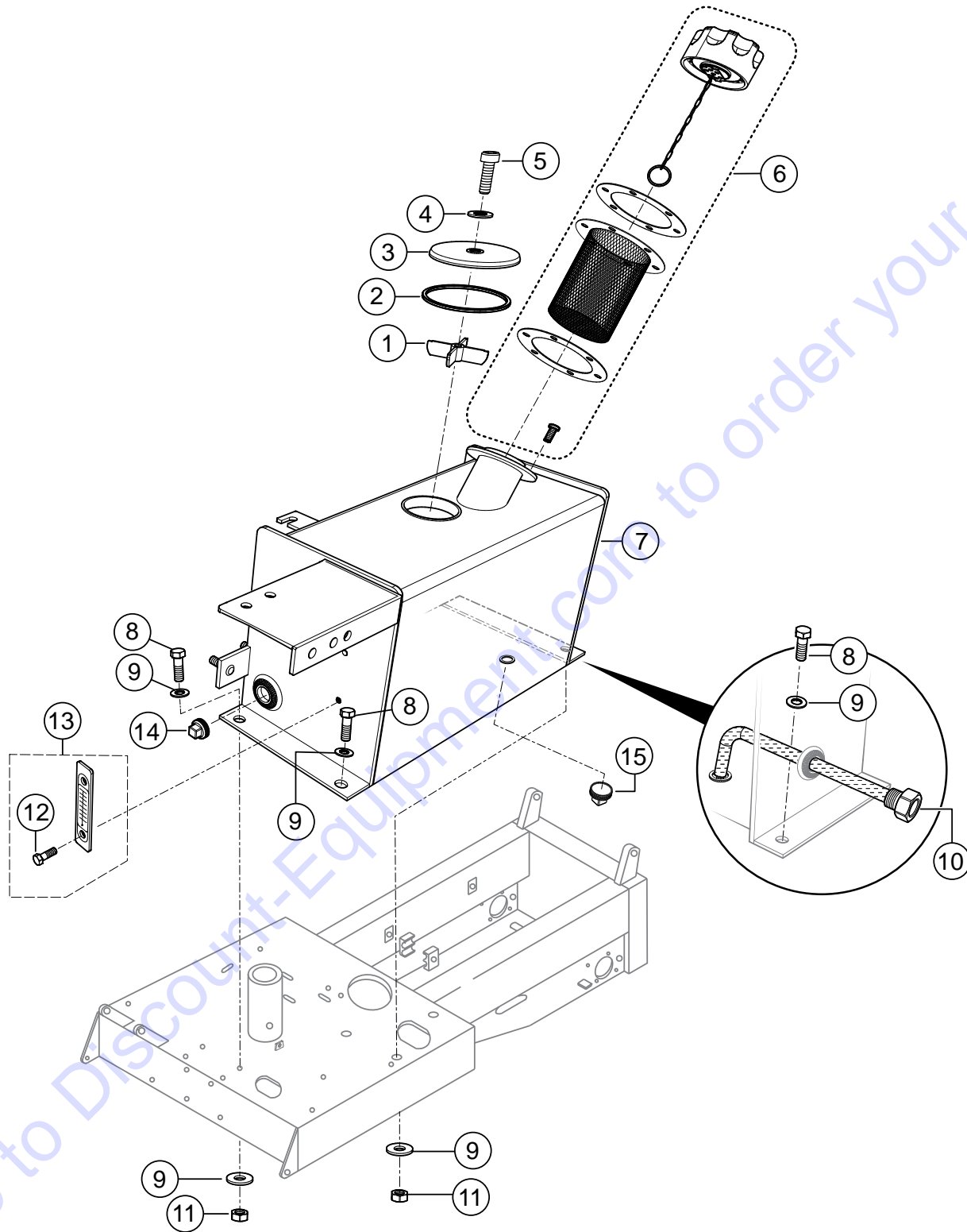


△ 1 REFERENCE HYDRAULIC DUMP ASSY.

## HANDLE/FOOT DUMP CONTROLS ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	492401	SCREW, HHC 1/2"-13 X 4	1	
2	503119	NUT, NYLOC 3/16"	1	
3	18121	KNOB, LEVER	1	
4	18065	LEVER, DUMP VALVE	1	
5	512185	SCREW, HHC 1/4"-20 X 1-3/4"	2	
6	492622	WASHER, FLAT 1/4"	4	
7	512183	SCREW, HHC 3/16"-24 X 1-1/4"	1	
8	18064	VALVE, DUMP .....	1	INCLUDES ITEMS W/\$
8A	18064SK	SEAL KIT, DUMP VALVE	1	
9\$		PIN, DUMP VALVE CROSS .....	1	NOT SOLD SEPARATELY
10	492596	WASHER, FLAT 1/4"	1	
11	492581	NUT, NYLOC 1/4"-20	1	
12	492584	NUT, NYLOC 1/2"-13	2	
13	492600	WASHER, FLAT 1/2"	1	
14	18152	PEDAL, DUMP VALVE	1	
15	18123	CLEVIS ASSY., DUMP VALVE	2	
16	492574	NUT, HEX 3/8"	2	
17	18153	ROD, DUMP VALVE	1	
18	492400	SCREW, HHC 1/2"-13 X 3-1/2"	1	
19	18122	BELL CRANK, DUMP VALVE	1	
20	512200	BUSHING, BRONZE	2	
21	803151	STOP, STEERING	1	
22	492467	SET SCREW, 5/16" X 3/8" NC	2	
23	503901	ZERK FITTING 1/4"-28	1	

# HYDRAULIC OIL TANK ASSY.



## HYDRAULIC OIL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	520461	RETAINER	1	
2	801791	O-RING	1	
3	520460	COVER	1	
4	520343	O-RING	1	
5	510717	BOLT, 1/2" X 1-3/4" NC	1	
6	EM16477	CAP, HYDRAULIC OIL TANK	1	
7	18125	TANK, HYDRAULIC OIL	1	
8	492376	SCREW, HHC 3/8" X 1-1/4"	3	
9	492598	WASHER, FLAT 3/8"	6	
10	18229	SCREEN, OIL RESERVOIR	1	
11	492583	NUT, NYLOC 3/8"-16	3	
12%		SCREW,.....	2	NOT SOLD SEPARATELY
13	18052	SIGHT GAUGE, HYD. OIL TANK .....	1	INCLUDES ITEMS W/%
14	491213	PLUG, HYD. OIL TANK 3/4"-14 NPT	1	
15	506094	PLUG, HYD. OIL TANK 1/2" NPT	1	

Go to Discount-Equipment.com to order your parts



## BATTERY ASSY.

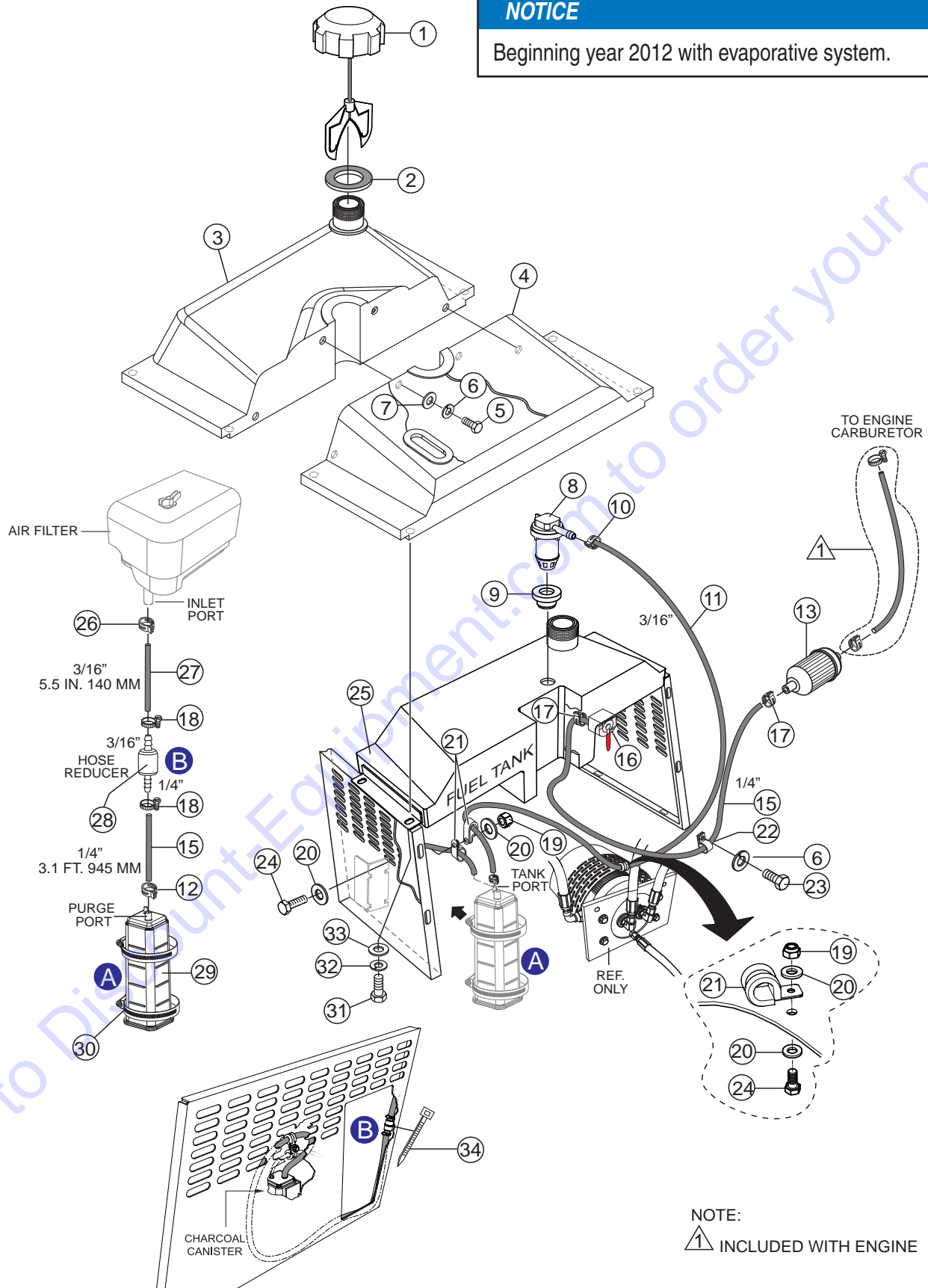
<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	505500	WING NUT	2	
4	512557	BATTERY CABLE, NEGATIVE	1	
6	511250	BATTERY CABLE, POSITIVE	1	
8	512555	BATTERY SUPPORT BRACKET	1	
10	EM92305	WASHER, FLAT 1/4".....	6.....	REPLACES P/N 492596
12	2101402	WASHER, LOCK 1/4" .....	2.....	REPLACES P/N 492622
16	508480	BATTERY SUPPORT PLATFORM	1	
18	492357	BOLT, 3/16" X 1"	2	
20	503119	NUT, 3/16"	2	
22	512585	SUPPORT BRACKET BOLT	2	
24	4671	BATTERY	1	

Go to Discount-Equipment.com to order your parts

# FUEL TANK ASSY. (STEEL)

## NOTICE

Beginning year 2012 with evaporative system.

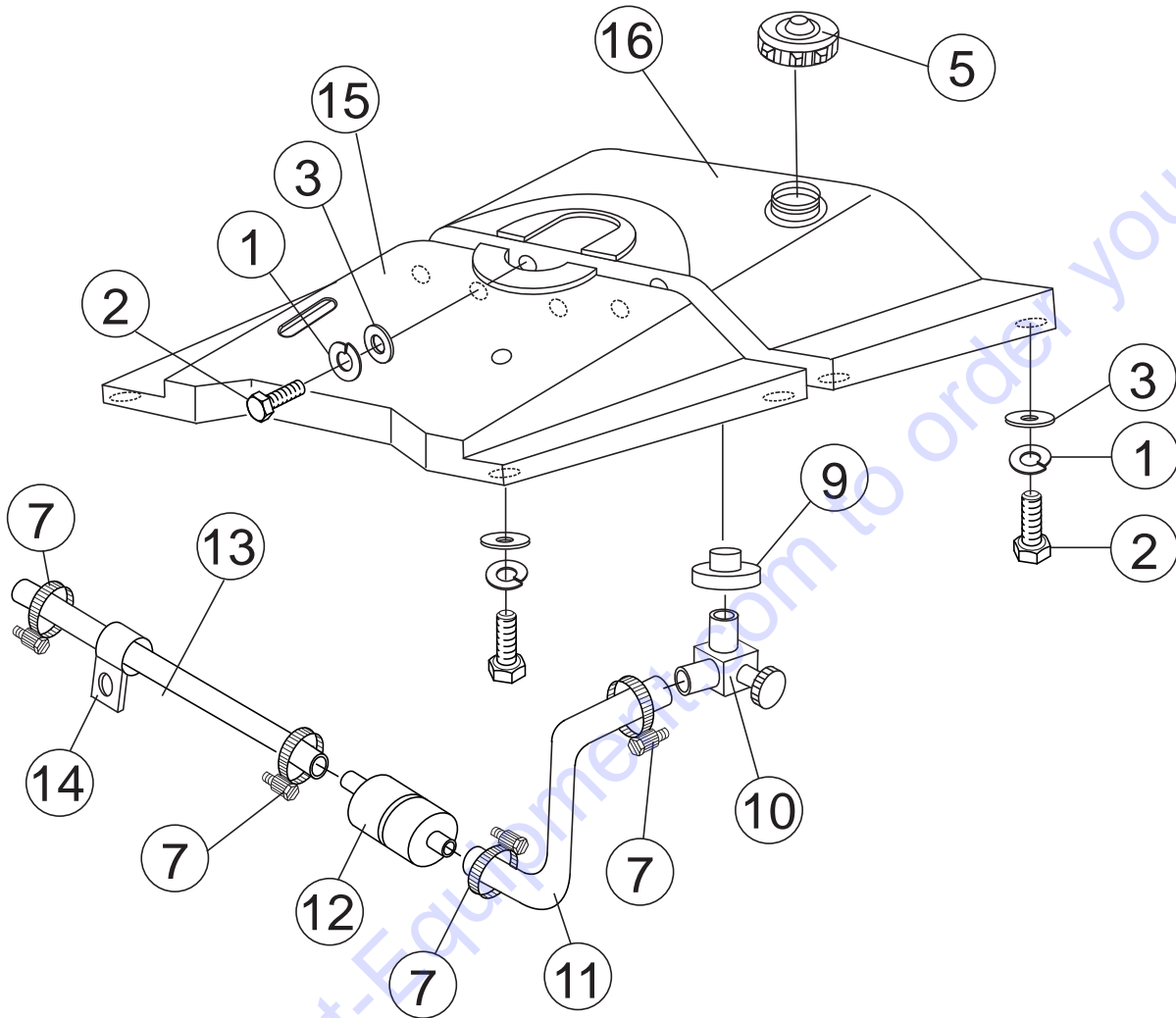




## FUEL TANK ASSY. (STEEL)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	520820	CAP, FUEL (EPA) 2" DIA.	1	
2	802006	FUEL TANK NECK SEAL	1	
3	800845	COVER, FUEL TANK, FRONT, PLASTIC	1	
4	521392	COVER, FUEL TANK, REAR, PLASTIC	1	
5	492356	SCREW, 1/4" X 3/4" GRD 5	4	
6	492622	WASHER, LOCK 1/4"	4	
7	509161	WASHER, FLAT 5/16"	4	
8	EM202772	VENT VALVE, EPA	1	
9	EM203403	GROMMET, VENT VALVE	1	
10	802498	TENSION CLAMP	1	
11	60004	HOSE, FUEL, Ø.1875, LOW PERM 50PSI 41"	1	
12	802573	TENSION CLAMP	1	
13	EM20763	FILTER, IN-LINE FUEL	1	
15	520611	HOSE, FUEL, 1/4" EPA (3.1 FT.)	4	1PC=1FT
16	22081	VALVE, FUEL SHUT-OFF	1	
17	802574	TENSION CLAMP	1	
18	506208	CLAMP, FUEL HOSE	3	
19	492581	NUT, NYLOC 1/4"	2	
20	492595	WASHER, FLAT 1/4"	2	
21	801130	CLAMP, RUBBER COATED	3	
22	511807	CLAMP NYLON 5/8"	1	
23	492355	SCREW, 1/4" NC X 1/2" GRD 5	1	
24	800056	BOLT, HHCC 1/4" NC X 3/4" GRD 5	2	
25	800841	TANK, FUEL, STEEL	1	
26	802498	TENSION CLAMP	3	
27	520833	HOSE, AIR FILTER 3/16" (5.5") EPA	1	1PC=1FT
28	802405	HOSE REDUCER, 1/4" TO 3/16"	1	
29	23505	CANISTER, CHARCOAL, 390CC (EPA)	1	
30	510725	CLAMP	2	
31	492363	SCREW, 5/16" X 3/4" GRD 5	6	
32	EM923343	WASHER, LOCK 5/16"	8	REPLACES P/N 492623
33	EM923023	WASHER, FLAT 5/16"	8	REPLACES P/N 492597
34	491030	PLASTIC TIE WRAP	1	

# FUEL TANK ASSY. (PLASTIC)

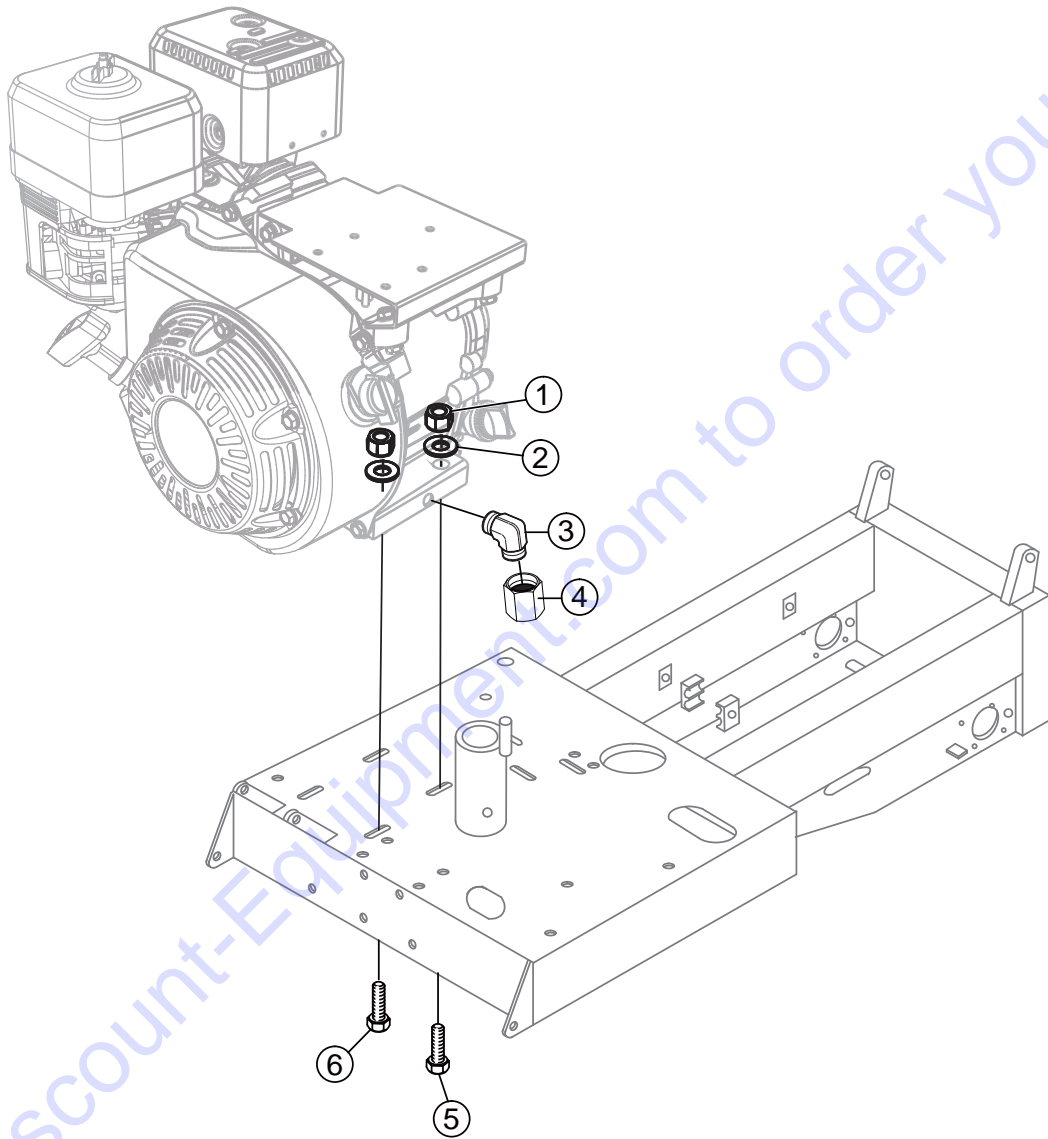


## FUEL TANK ASSY. (PLASTIC)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	EM923343	WASHER, LOCK 5/16"	4	
2	EM492299	SCREW, HHC 5/16"-18 X 1/2"	4	
3	EM923023	WASHER, FLAT 5/16"	4	
5	18166	CAP, FUEL 4" DIA.	1	
7	506208	CLAMP, FUEL HOSE	4	
9	19633	SEAL, FUEL TANK GROMMET	1	
10	20795	VALVE, FUEL SHUT-OFF	1	
11	512192	HOSE, FUEL	1	
12	EM20763	FILTER, FUEL	2	
13	512191	HOSE, FUEL	1	
14	511807	STRAP, NYLON 5/8"	1	
15	18103	COVER, FUEL TANK	1	
16	18098	TANK, PLASTIC FUEL	1	

Go to Discount-Equipment.com to order your parts

# ENGINE MOUNTING ASSY.

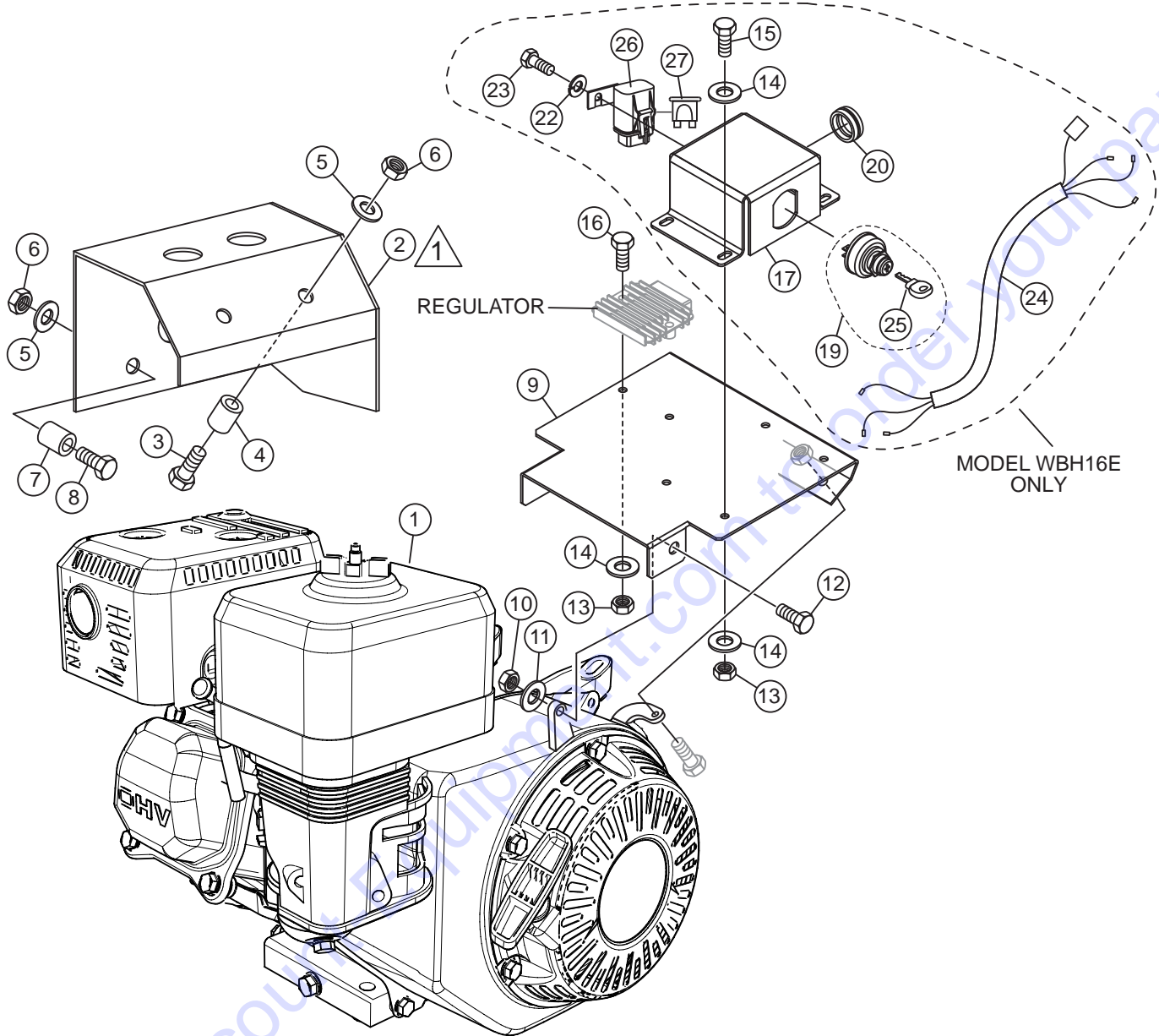


## ENGINE MOUNTING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	2105164	NUT, NYLOC 5/16" .....	4.....	REPLACES P/N 492582
2	505679	WASHER, FLAT 3/8"	4	
3	513593	90° FITTING	1	
4	513594	ADAPTER PLUG	1	
5	492368	SCREW, 5/16" NC X 2" GRD 5.....	1.....	GROUND CONNECTION
6	492367	SCREW, 5/16" NC X 1-3/4" GRD 5	3	

Go to Discount-Equipment.com to order your parts

# ENGINE ASSY.



NOTES:

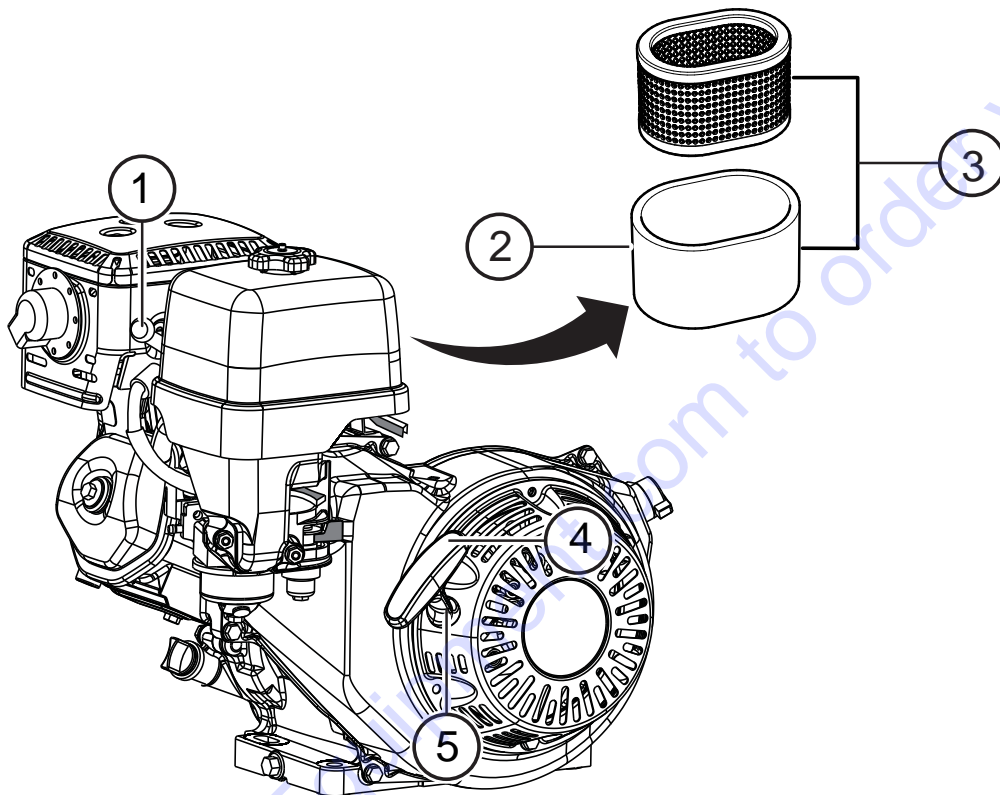


MUFFLER GUARD AND ASSOCIATED HARDWARE ARE NO LONGER AVAILABLE. REF. PANEL ASSY., ITEM 15 FOR REPLACEMENT MUFFLER GUARD.

## ENGINE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	520767	ENGINE, HONDA 11 HP RECOIL START.....	1.....	WBH16/WBH16F ONLY
1	520766	ENGINE, HONDA 11 HP ELECTRIC START ....	1.....	WBH16E/WBH16EF ONLY
2	801029	GUARD, MUFFLER .....	1.....	NO LONGER AVAILABLE
3	503118	BOLT, 3/16" X 1" NC GRD 2	2	
4	512512	SPACER	2	
5	492595	WASHER, FLAT 3/16"	4	
6	503119	NUT, 3/16" NC	4	
7	512507	SPACER	2	
8	508998	BOLT, 3/16" X 1-1/2" NC	2	
9	18007	MOTOR COVER	1	
10	492583	NUT, 3/8" NC	2	
11	492598	WASHER 3/8"	2	
12	EM963057	CAP SCREW 3/8" X 1-1/2" .....	2.....	REPLACES P/N 492313
13	492581	NUT, 1/4" NC	6	
14	492596	WASHER, FLAT 1/4" .....	10.....	WBH16E ONLY
15	492356	BOLT, 1/4" X 3/4" NC GRD 5 .....	4.....	WBH16E ONLY
16	EM492358	BOLT, 1/4" X 1-1/4" NC GRD 5	2	
17	801019	IGNITION SWITCH BOX .....	1.....	WBH16E ONLY
19	10958	IGNITION SWITCH.....	1.....	INCLUDES ITEMS W/# WBH16E ONLY
20	800921	GROMMET .....	1.....	WBH16E ONLY
22	492621	WASHER, LOCK 3/16" .....	1.....	WBH16E ONLY
23	EM503115	SCREW.....	1.....	WBH16E ONLY
24	801014	ELECTRICAL HARNESS .....	1.....	WBH16E ONLY
25#	11078	KEY, IGNITION SWITCH .....	1.....	WBH16E ONLY
26	EM98066	FUSE HOLDER .....	1.....	WBH16E ONLY
27	EM98287	FUSE, 25 AMP.....	1.....	WBH16E ONLY

# ENGINE SERVICE PARTS



Go to Discount-Equipment.com to order your parts



## ENGINE SERVICE PARTS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	9807955846	SPARK PLUG	1	
2#	17218ZE3505	AIR FILTER, OUTER	1	
3	17210ZE3505	AIR FILTER, ELEM. (DUAL).....	1.....	INCLUDES ITEMS W/#
4	28461Z5T305	GRIP, RECOIL STARTER	1	
5	28462ZV7003	ROPE, RECOIL STARTER.....	1.....	REPLACES P/N 28462ZE3W01

Go to Discount-Equipment.com to order your parts

# PARTS FINDER

**Search Website  
by Part Number**



**Search Manual  
Library For Parts  
Manual & Lookup Part  
Numbers – Purchase  
or Request Quote**

**Search Manuals**

Enter your information to help us find the right parts manual for your equipment.

\* Brand:

\* Model:

\* Serial:

\* Part Number:

SEARCH

**Can't Find Part or  
Manual? Request Help  
by Manufacturer,  
Model & Description**

**Parts Order Form**

Please fill in the following information to help us find the right part for your equipment.

Manufacturer:	<input type="text"/>
Model:	<input type="text"/>
Description:	<input type="text"/>
Part Number:	<input type="text"/>
Quantity:	<input type="text"/>
Notes:	<input type="text"/>

Submit

Discount-Equipment.com is your online resource for quality parts & equipment.

Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

**Need parts?**

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and choose one of the options to help get the right parts and equipment you are looking for. Please have the machine model and serial number available in order to help us get you the correct parts. If you don't find the part on the website or on one of the online manuals, please fill out the request form and one of our experienced staff members will get back to you with a quote for the right part that your machine needs.

We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, Stow, Wacker, Sakai, Mi-T-M, Sullair, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Menegotti, Morrison, Contec, Buddy, Crown, Edco, Wyco, Bomag, Laymor, EZ Trench, Bil-Jax, F.S. Curtis, Gehl Pavers, Heli, Honda, ICS/PowerGrit, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, CH&E, General Equipment, Amida, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, APT, Wylie, Ingersoll Rand / Doosan, Innovatech, Con X, Ammann, Mecalac, Makinex, Smith Surface Prep, Small Line, Wanco, Yanmar