

OPERATION AND PARTS MANUAL



MULTIQUIP®

***WHITEMAN* SERIES**

MODEL WBH16

**(GX390RT2QTT GASOLINE ENGINE
RECOIL START)**

MODEL WBH16E

**(GX390RT2QNB2 GASOLINE ENGINE
ELECTRIC START)**

Serial No. 110401 and ABOVE

After January 2011

POWER BUGGY

Revision #1 (06/18/15)



THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.

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PROPOSITION 65 WARNING



CALIFORNIA — Proposition 65 Warning

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks.
- Cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: **ALWAYS** work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

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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.**



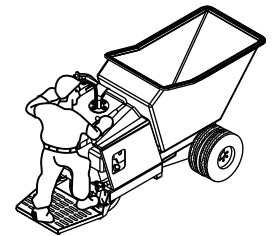
WARNING

- **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 or side to side.
- **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.
 - **ONLY** remove the outer tires when it is necessary to reduce the width of the power buggy in order to access narrow work areas. If outer tires are removed, the power buggy must only be used on level, solid surfaces such as concrete, asphalt, or compacted stone to prevent the power buggy from tipping. The maximum load must also be reduced to 1100 lbs. (500 kg)
 - **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.


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. 

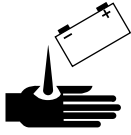
⚠ WARNING

- **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.

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:

- Honda GX630 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 Honda Engine Distributor.

SPECIFICATIONS (BUGGY)

Table 1. Specifications (Power Buggy)	
Models	WBH16/WBH16E
Wheelbase	44 in. (1,117.6 mm)
Overall Length	103 in. (2,616.2 mm)
Overall Width- Dual Wheels	43.25 in. (1,098.6 mm)
Maximum Weight Capacity (Dual Wheels)	30.25 in. (738.65 mm) 2,500 lbs. (1,136 kg)
Overall Width- Single Wheel	32 in. (813 mm)
Maximum Weight Capacity (Single Wheel)	1,100 lbs. (500 kg)
Overall Height	53 in. (1346.2 mm)
Operating Weight	1,415 lbs. (641.8 kg.)
Bucket Capacity	16 cu. ft. Water Level (.59 cu. yd.)
Drive	Hydrostatic
Speed	Up to 7.25 mph. (11.67 km/h)
Steering	Handle Bars To Rear Wheels
Brakes (Drive Wheels)	Dynamic Hydrostatic
Parking Brake (Drive Wheels)	Mechanical
Dump Control	Hydraulic Dump and Return
Discharge Height	6.0 in. (152 mm)
Ground Clearance	6.0 in. (152 mm)
Turning Radius	73.5 in. (1867 mm)
Tires (Drive Wheels)	5.70 x 8.0 x 19.0 in. (145 x 203 x 483 mm)
Tires (Steering)	4.80 x 8.0 in. (122 x 203 mm)

SPECIFICATIONS (ENGINE)

Table 2. Specifications (Engine)	
Model	GX390RT2QTT (Recoil Start) GX390RT2QNB2 (Electric Start)
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 Tank Capacity	4.8 gal. (18.1 liters)
Crankcase Oil Capacity	1.16 qts. (1.1 liters)
Ignition Timing	BTDC25
Starting System	Recoil/Electric
Air Cleaner	Cyclone Type
Noise Level STD, OP	82.78 (S,S)
Dry Weight	68.3 lbs. (31.0 kg.)
Outside Dimensions L X W X H	15.9 x 17.7 x 17.4 (405 X 450 X 443 mm.)

DIMENSIONS

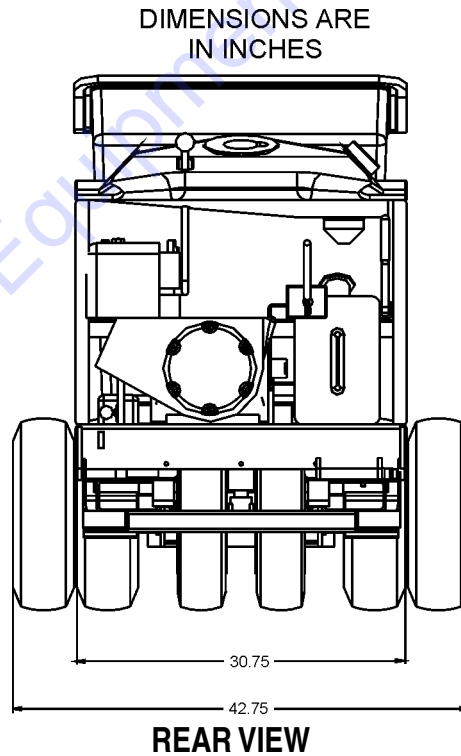
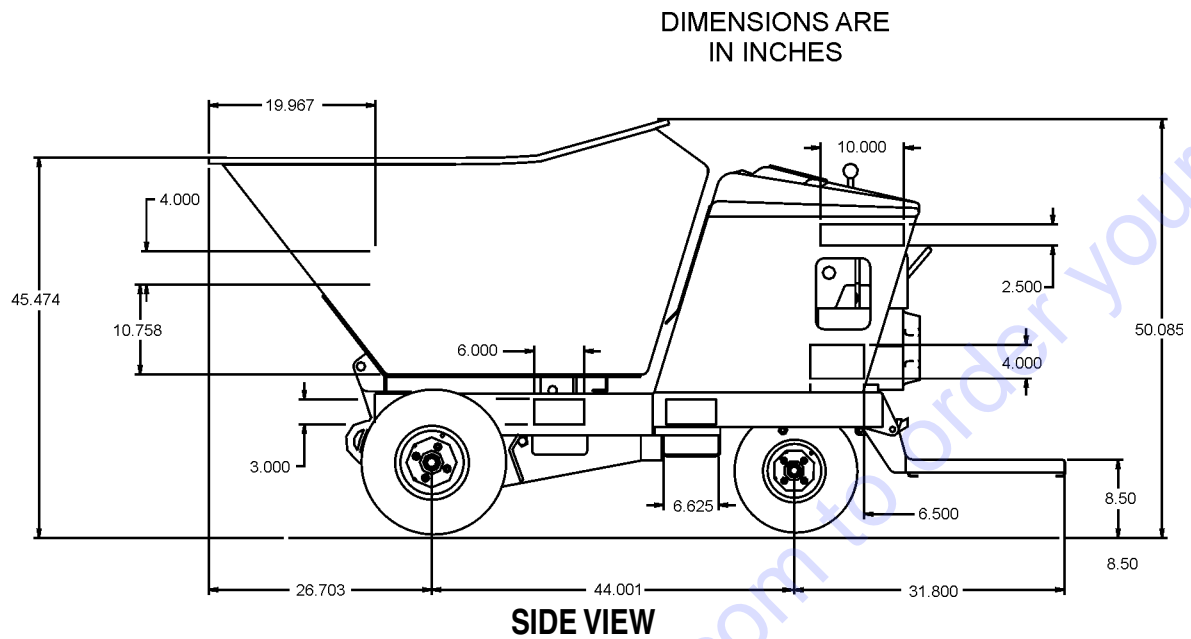


Figure 1. WBH16/WBH16E Dimensions

GENERAL INFORMATION

The MQ Whiteman Power Buggy, Models WBH16 (recoil start) and WBH16E (electric start) are intended for the transportation of concrete, concrete spreading and spot pouring. In addition, the WBH16/WBH16E 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. (1,136 kg). 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 WBH16/WBH16E. Multiple lift points have been provided to allow for easy access of a forklift when lifting is required.

The WBH16/WBH16E is 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 WBH16/WBH16E. 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**.

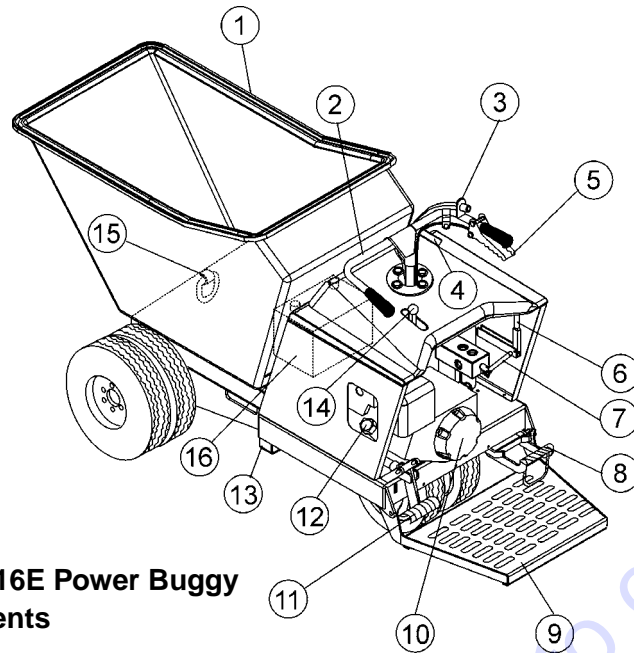


Figure 2. WBH16/WBH16E Power Buggy Components

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. **Kill Switch** — In the event of an emergency, press this button to stop the engine.
4. **Fuel Tank/Cap** — Remove this cap to add fuel. Tank holds approximately 4.8 U.S. gallons (18.1 liters). **DO NOT** over fill. Tighten cap until you hear "clicking".
5. **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**.
6. **Parking Brake Lever** — When this lever is activated (pulled down), the parking brake will be set. To release the brake, pull the lever upwards.
7. **Travel Lever** — When the travel lever is pushed forward, the buggy will travel in the forward direction. Placing the travel lever in the backward position will cause the buggy to travel in the reverse direction. Center position is neutral.
8. **Brake Pedal** — Press this pedal with the right foot to stop the buggy.
9. **Operator Platform** — When the buggy is in use, the operator shall **ALWAYS** stand on this platform while holding onto the handle bar (steering).
10. **Engine** — The WBH16 uses a HONDA GX390RT2QTT (recoil start) engine. The WBH16E uses a HONDA GX390RT2QNB2 (electric start) engine.
11. **Dump Pedal** — Use this pedal to place the tub in the dump position (vertical). Press pedal a second time to return tub to the travel position (horizontal).
12. **Hydraulic Tank/Cap** — Remove this cap to add hydraulic oil. Tank holds approximately 5.3 U.S. gallons (20.4 liters). **DO NOT** over fill.
13. **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.
14. **Dump Control Lever** — Use this lever forward to place the tub in the dump position (vertical), move the lever backward to return the tub to travel position (horizontal).
15. **Towing Hook** — Use this hook to tow the buggy if it gets stuck. This hook is **NOT** intended for towing the buggy on public roads at high speeds.
16. **Battery** — Used in the electric-start power buggy (WBH16E) only. Always use gloves and eye protection when handling the battery.

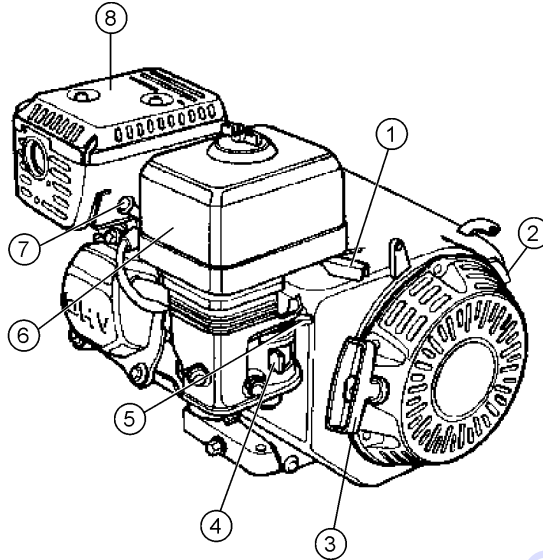


Figure 3. Honda GX390 Engine

1. **Throttle Lever** — Used to adjust engine RPM speed (lever advanced forward - **SLOW**, lever back toward operator - **FAST**).
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. **Choke Lever** — Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
6. **Air Filter** — Prevents dirt and other debris from entering the fuel system. Release the latches on the sides of the air filter cover to gain access to filter element.
7. **Spark Plugs** — Provides spark to the ignition system. Set spark plug gap to 0.70- 0.76 mm (0.028 - 0.030 in.) Clean spark plug once a week.
8. **Muffler** — Used to reduce noise and emissions.

CAUTION



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

NOTICE

Operating the engine without an air filter or with a damaged or worn air filter will allow dirt to enter the engine causing rapid engine wear.

BEFORE STARTING

1. Read safety information at the beginning of manual.
2. Clean the machine, 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.
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 buggy on secure level ground with the engine stopped.
2. Remove the filler cap/dipstick from the engine oil filler hole (Figure 4) and wipe it clean.

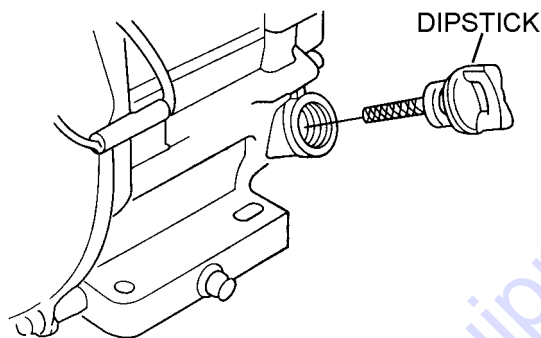


Figure 4. Engine Oil Dipstick Removal

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 3). Maximum oil capacity is 1.16 qts. (1.1 liters).

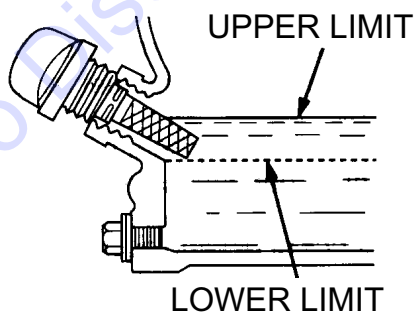


Figure 5. Oil Level

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

GASOLINE 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 gasoline cap (Figure 6) located on top of fuel tank.

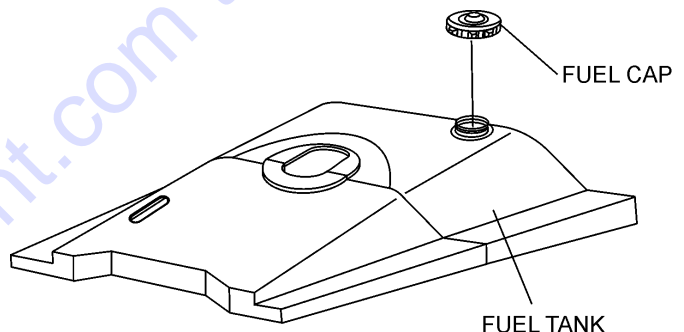


Figure 6. Fuel Tank

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.

TIRE PRESSURE CHECK

The wheels and tires of the WBH16/WBH16E 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 7) 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.

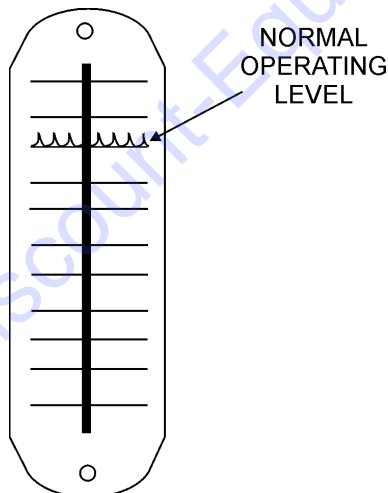


Figure 7. Hydraulic Sight Glass

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 (WBH16E ONLY)

1. Before attempting to start the power buggy, make sure that the **safety kill switch** (Figure 8) is not pushed in. The power buggy will not start with the kill switch engaged.

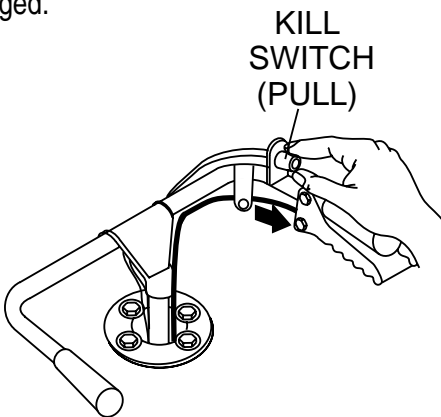


Figure 8. Kill Switch OFF

2. Place the travel control lever (Figure 9) in the **NEUTRAL** position.

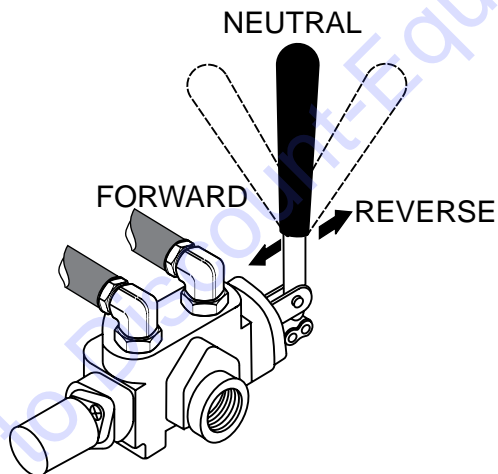


Figure 9. Travel Control Lever

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

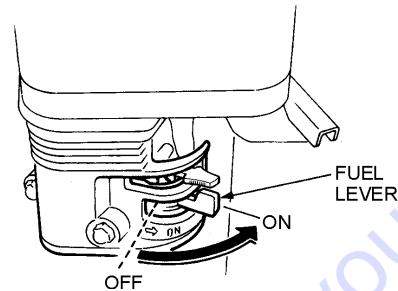


Figure 10. Engine Fuel Lever (ON Position)

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

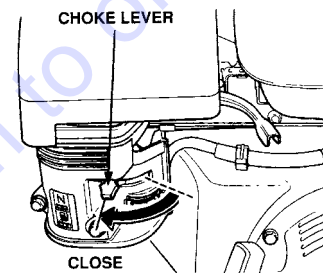


Figure 11. Engine Choke Lever (Closed)

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.

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

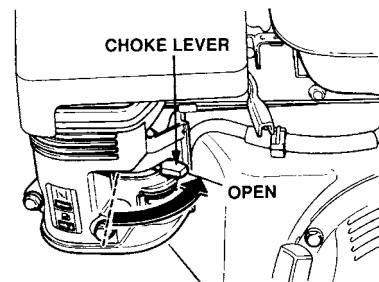


Figure 12. Engine Choke Lever (Open)

6. Move the throttle lever halfway between the **FAST** and **SLOW** position (Figure 13) for starting.

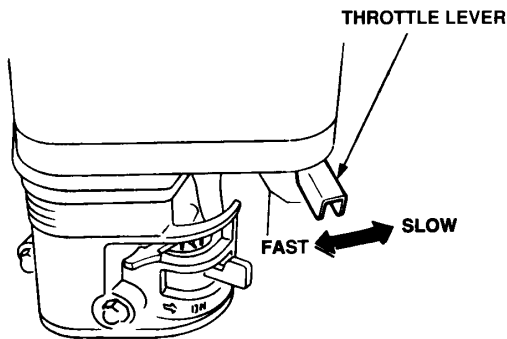


Figure 13. Throttle Lever

7. Turn the engine ON/OFF switch (Figure 14) to the **START** position and hold it until the engine starts. When engine starts, release the key, allowing it to return to the **ON** position.

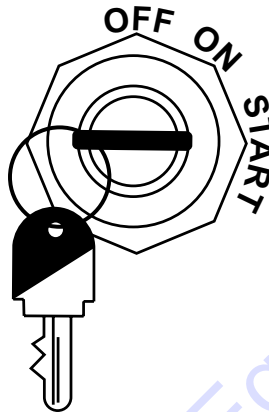


Figure 14. Engine ON/OFF Switch (Electric Start)

8. Make sure the choke lever is in the **OPEN** position (Figure 12) before operating the power buggy. 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

1. Follow steps 1 through 6 of the Electric Start procedure.
2. Place the Engine ON/OFF switch (Figure 15) in the **ON** position.

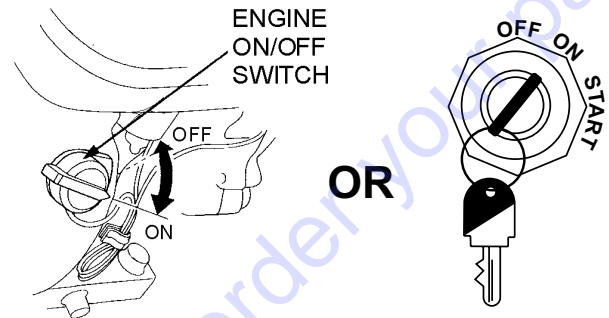


Figure 15. Engine ON/OFF Switch (Recoil Start)

3. Grasp the starter grip (Figure 16) 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.

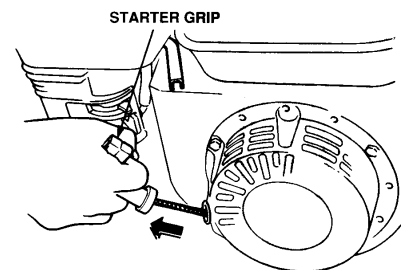


Figure 16. Starter Grip

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. If the engine has started, slowly push the choke lever inward to the **RUN** position. If the engine has not started, repeat steps 1 through 3.

PRE-CHECK

1. Engage the parking brake lever (Figure 17) 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.

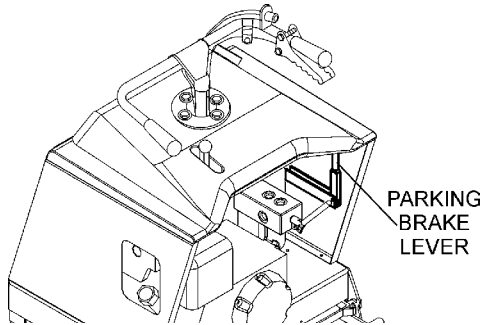


Figure 17. Parking Brake Lever

2. Place the engine's throttle lever (Figure 13) in the **slow** (idle) position.
3. Check the speed control lever (Figure 18) located on the right side of the handle bar. The speed control should work freely when squeezed by hand, and return to the closed position when released.

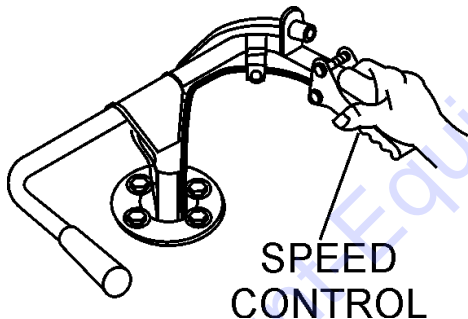


Figure 18. Speed Control Lever

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 13) in the **SLOW** (idle) position.

4. Place the power buggy's direction lever (Figure 19) in the forward direction.

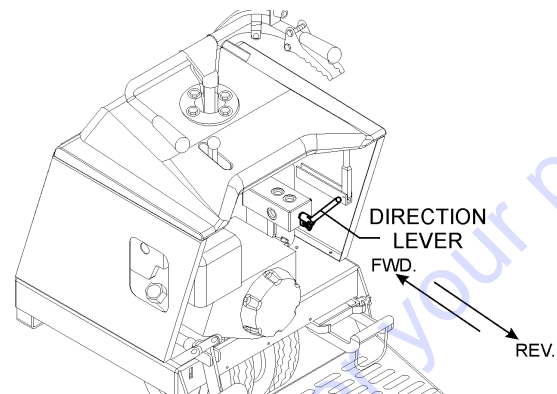


Figure 19. Direction Lever

5. Slowly squeeze the speed control lever slightly (Figure 18), 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 19) in the forward direction.
2. Squeeze the speed control lever (Figure 18) 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 20). Gradually apply pressure to the brake pedal until the buggy comes to rest.

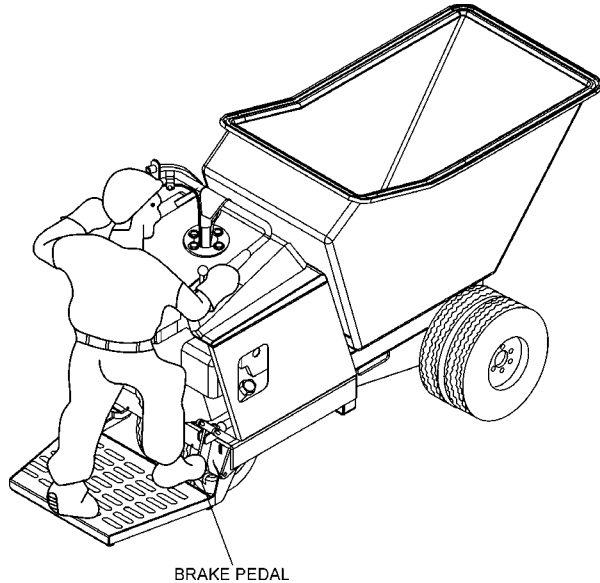


Figure 20. Brake Pedal

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.

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 17).
3. Place the throttle lever (Figure 13) in the slow position. Idle engine 3-5 minutes for gradual cooling.
4. Turn the engine on/off switch (Figure 14 or Figure 15) to the OFF position to shut down the engine.
5. Cycle hydraulic controls to eliminate residual pressure.
6. Remove ignition key on electric start models.
7. Block wheels if on a slope or incline.

EMERGENCY SHUTDOWN

The WBH16/WBH16E 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 21) and listen for the engine to stop.

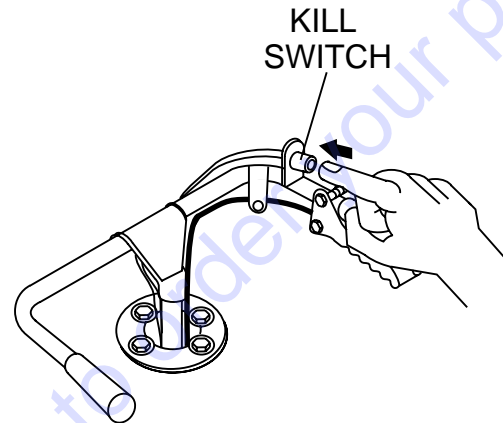


Figure 21. Safety Kill Switch

2. Engage the parking brake (Figure 17).
3. Turn the ignition switch (Figure 12) to the **OFF** position.

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 22).

BUGGY IS STEERED LEFT
WHEN HANDLE BAR
IS TURNED CLOCKWISE

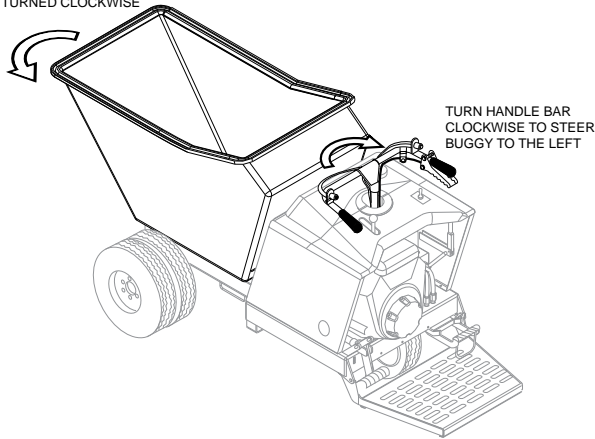


Figure 22. Steering the Buggy

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/WBH16E can travel up, down or side to side 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 23.

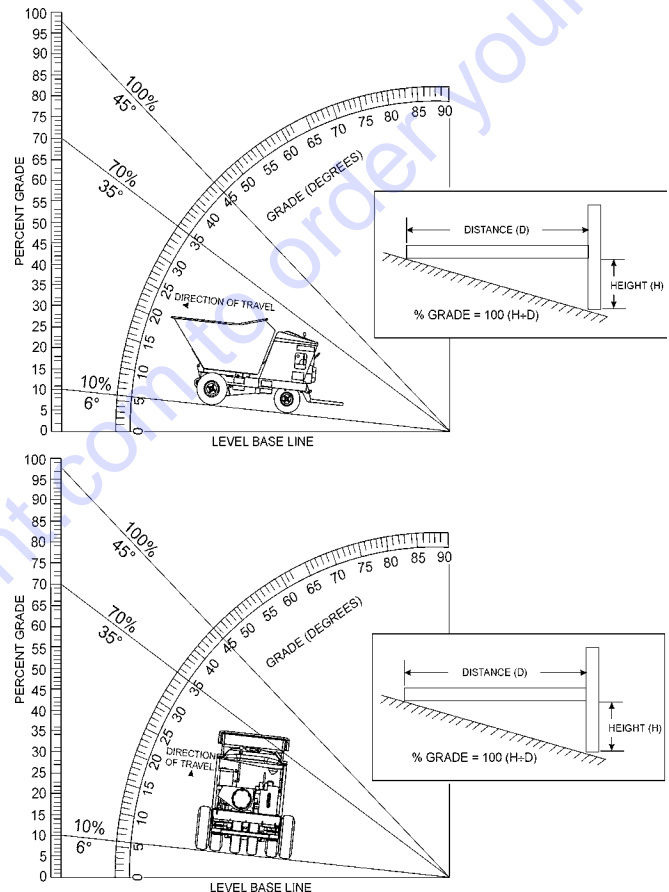


Figure 23. Determining Grade of Slope

NOTICE

When going up or down a slope, always travel in the forward direction (Figure 24).

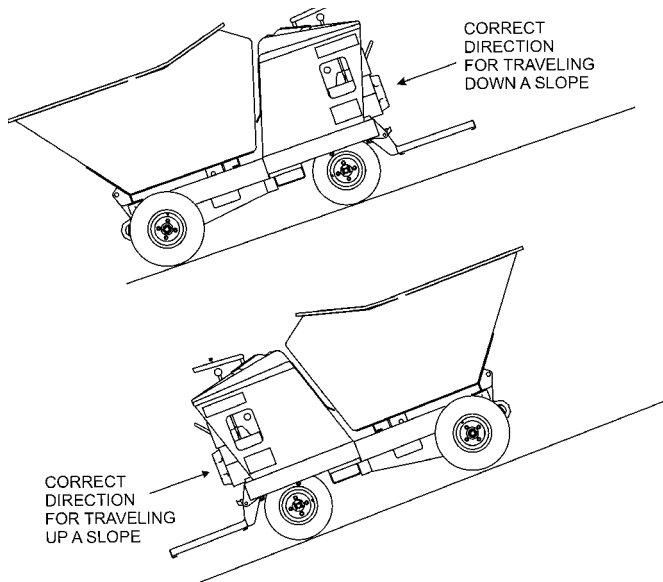


Figure 24. Slope Travel Direction

TUB (BUCKET) DUMPING

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

1. To activate the hydraulic dump, press down on the dump pedal (Figure 25) 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.

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.

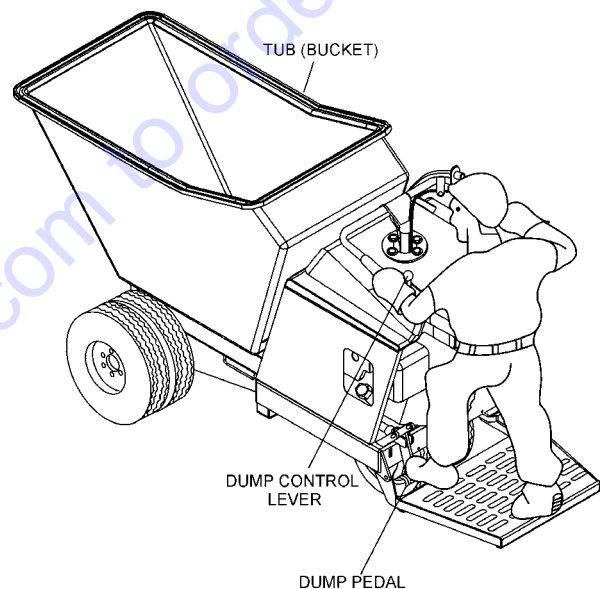


Figure 25. Dump Pedal

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

ENGINE

Refer to the Honda engine owner's manual for specific information.

1. Check engine oil after every 10 hours of operation and maintain proper levels.
2. Drain oil after every 50 hours of operation and refill with grade of oil recommended below:
 - Above 40 °F. (13 °C.) - S.A.E. 30
 - Below 40 °F. (13 °C.) - S.A.E. 20

ADDING HYDRAULIC OIL

1. Check the hydraulic oil level in the hydraulic oil tank, by reading the hydraulic oil sight glass mounted on the hydraulic oil tank.
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 filler hole (Figure 26), the tub (bucket) must be put in the dump position (vertical). Start the engine as outlined in the starting procedure, then place the tub in the dumping position.

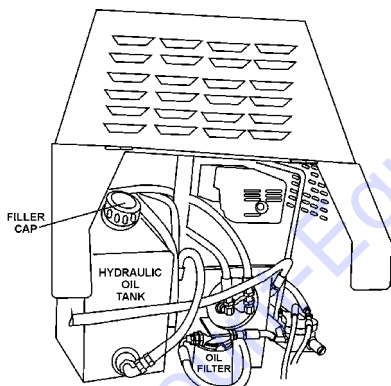


Figure 26. Hydraulic Oil Tank Filler Cap

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

NOTICE

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

5. 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 DRIVE MOTORS

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

BRAKE ADJUSTMENT

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

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

CHASSIS LUBRICATION

The WBH16/WBH16E is equipped with zerk fittings. Lubricate these zerk fittings each day before operating the buggy.

1. 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)- Four zerk fittings.
 - Steering Bearing Flange (Front side of handle bar) - One zerk fitting.
2. 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 direction after you release the speed control lever, the pump control lever requires adjustment.

1. Place the machine's drive wheels on jacks or blocks free from ground contact.
2. Locate the pump control lever adjusting bolt.
3. Loosen the jam nut.
4. Start the engine and place the buggy's directional control lever in the forward then reverse directions while observing for wheel movement.
5. The pump lever has a very sensitive neutral position of about 1/32" to 1/16". If the wheels are creeping, turn the adjusting bolt in very slight increments. 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. **DO NOT** install an inner tube to correct a leak through the rim. If the rim is cracked, the air pressure in the inner tube may cause pieces of the rim to explode (break-off) with great force and can cause serious eye or bodily injury.

TIRES WEAR/INFLATION

Tire inflation pressure is the most important factor in tire life.

1. Check tire pressure when the tires are cold before operation.
2. Do not bleed air from tires when they are hot.
3. Check inflation pressure weekly during use to ensure the maximum tire life and tread wear.
4. Refer to Table 4 (Tire Wear Troubleshooting) to pinpoint the causes and solutions of tire wear problems.

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

LUG NUT TORQUE REQUIREMENTS

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

1. Start all wheel lug nuts by hand.
2. Torque all lug nuts in sequence. See Figure 27. **DO NOT** torque the wheel lug nuts all the way down. Tighten each lug nut in 3 separate passes as defined by Table 5.

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

3. After first road use, retorque all lug nuts in sequence (Figure 27). Check all wheel lug nuts periodically.

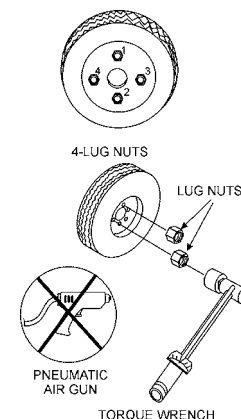


Figure 27. Lug Nut Torque Sequence

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.
	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?	Use smaller diameter hose or replace hose.
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 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.

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"/>

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

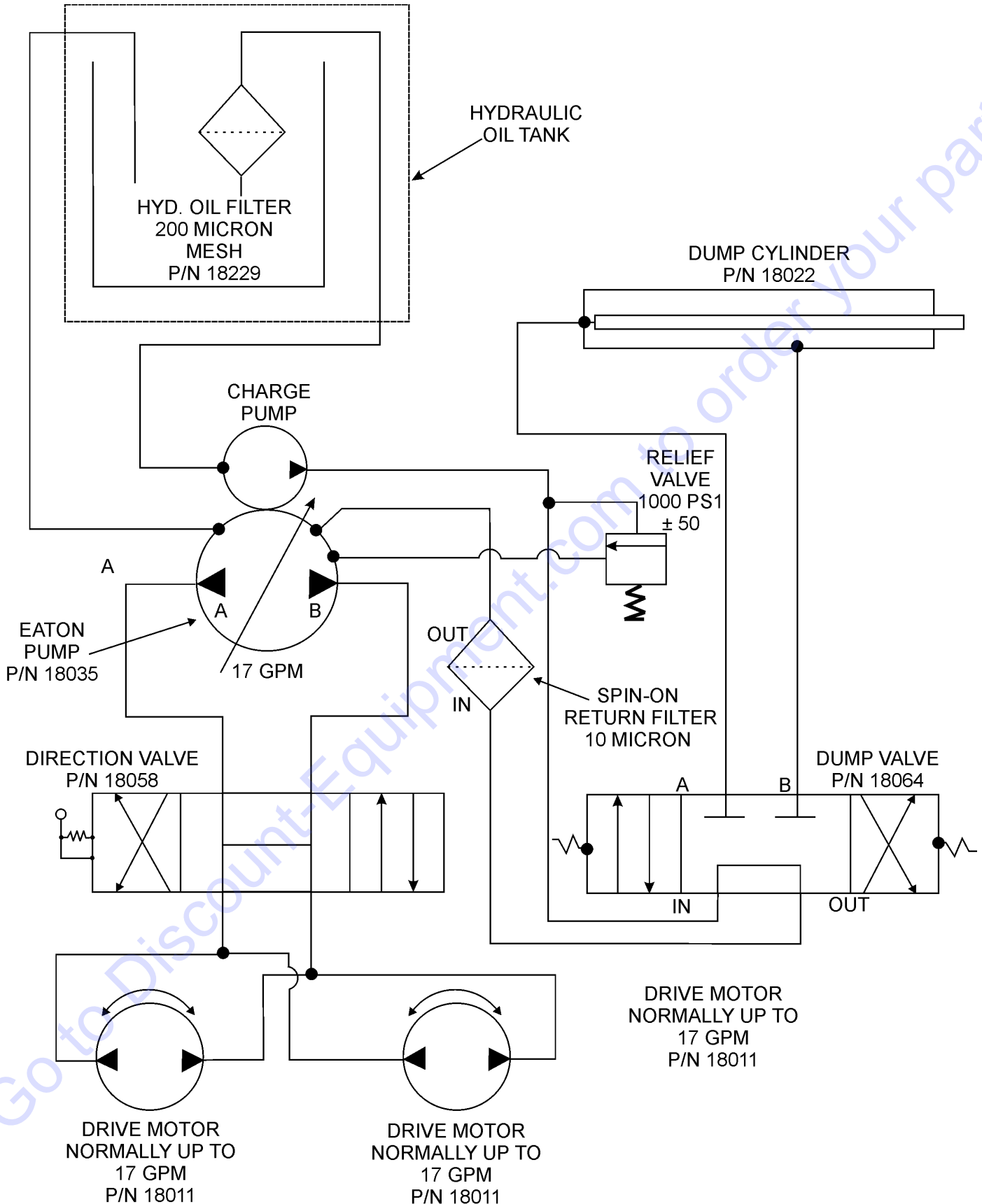
Florida: **561-964-4949** Outside Florida TOLL FREE: **877-690-3101**

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.

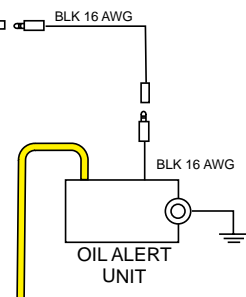
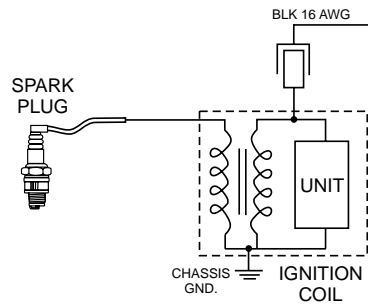
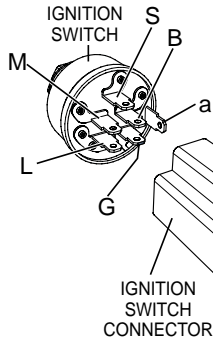
We sell worldwide for the brands: Genie, Terex, JLG, MultiQuip, Mikasa, Essick, Whiteman, Mayco, Toro Stone, Diamond Products, Generac Magnum, Airman, Haulotte, Barreto, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand, Miller Curber, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna Target, 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

HYDRAULIC SYSTEM DIAGRAM

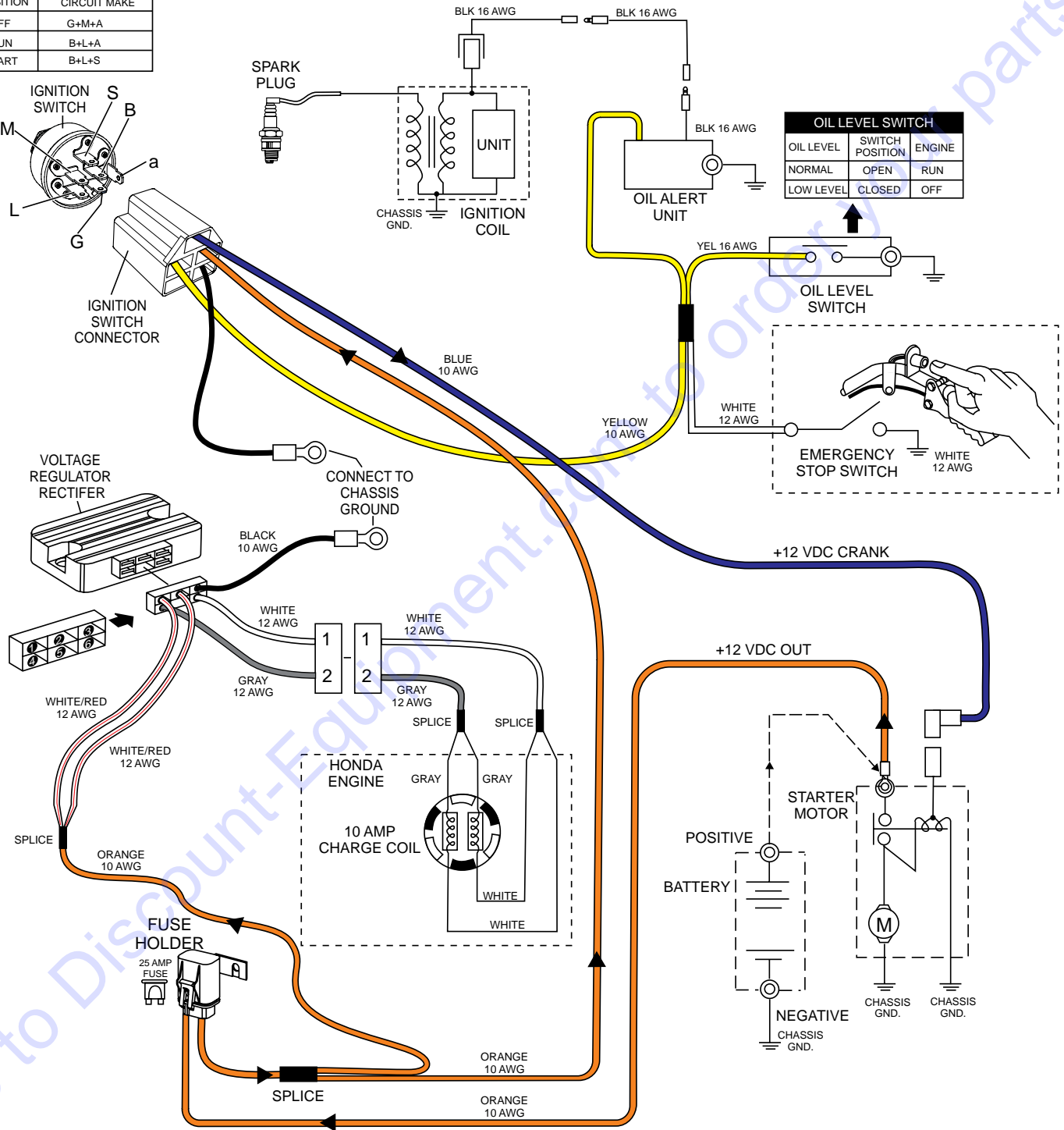
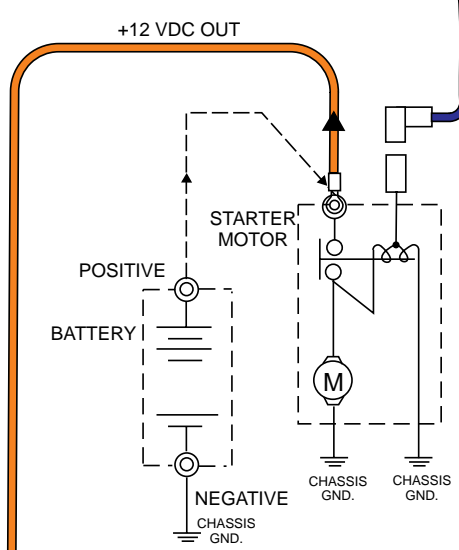
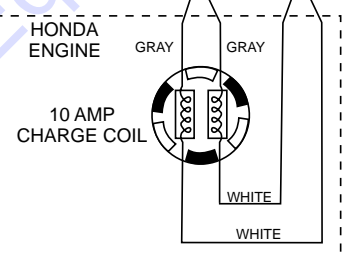
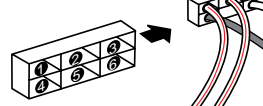
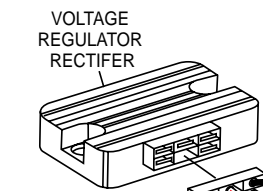
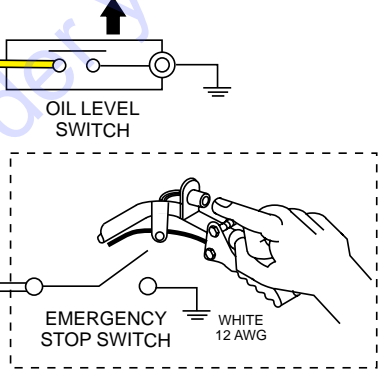


WIRING DIAGRAM DIAGRAM

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/WBH16E POWER BUGGY WITH HONDA GX390RT2QTT/GX390RT2QNB2 ENGINE

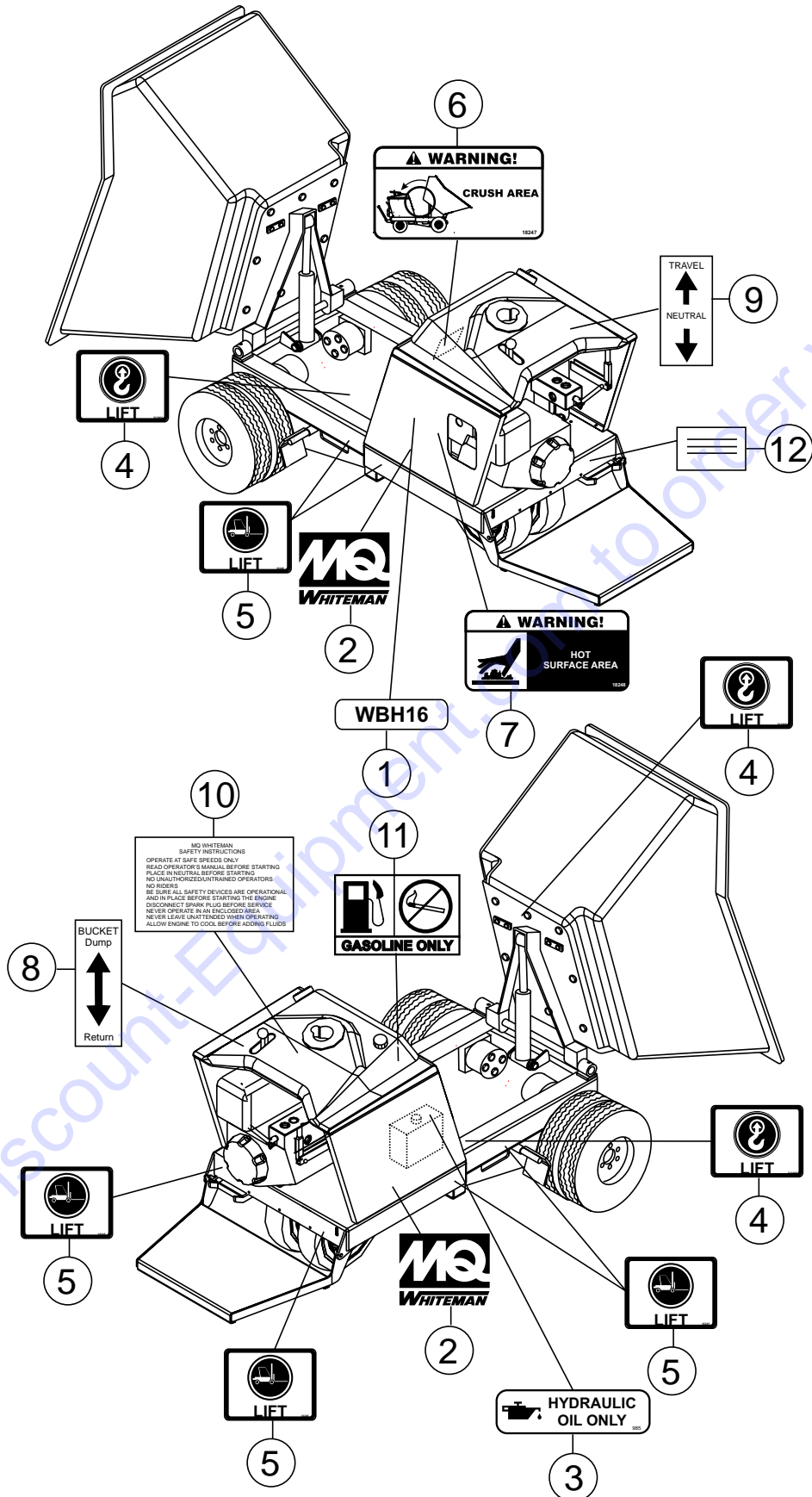
1 to 3 units

Qty.	P/N	Description
1	508667	FILTER, HYDRAULIC OIL
1	16477	CAP, HYDRAULIC OIL TANK
1	18035	PUMP, HYDROSTATIC
1	18051	COUPLING, ENGINE SHAFT
2	18316	LINING, BRAKE
1	18145	ROD, BRAKE CONTROL
1	520820	CAP, FUEL (EPA)
5	20763	FILTER, IN-LINE FUEL
1	18025	SWITCH, KILL
1	18133	CABLE, THROTTLE
1	18132	LEVER, THROTTLE
1	18029	WHEEL, DRIVE
1	18049	WHEEL, STEERING
1	18016	CABLE, PARKING BRAKE
3	9807955846	SPARK PLUG
3	11078	KEY, IGNITION (ELECTRIC START ONLY)
1	28462ZE3W01	ROPE (RECOIL START ONLY)
3	17210ZE3010	ELEMENT, AIR CLEANER

NOTICE

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

NAMEPLATE AND DECALS



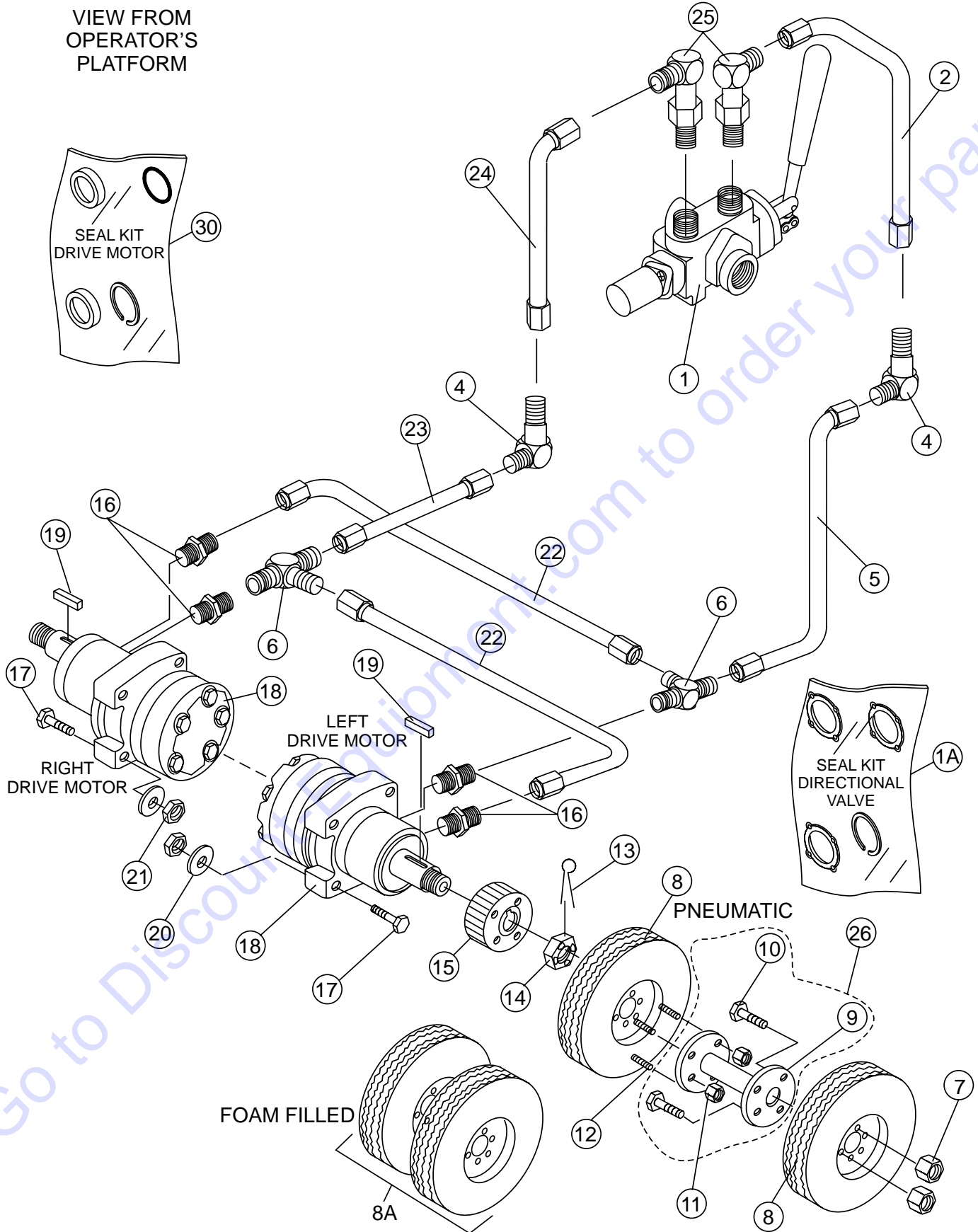
NAMEPLATE AND DECALS

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18252	DECAL, WBH16	2	
2	18251	DECAL, MQ WHITEMAN	2	
3	EM985	DECAL, HYDRAULIC OIL	1	
4	513608	DECAL, LIFTING HOOK	3	
5	18245	DECAL, FORKLIFT LIFTING	6	
6	18247	DECAL, CRUSH WARNING	1	
7	18248	DECAL, HOT SURFACE WARNING	1	
8		DECAL, BUCKET DUMP LEVER.....	1	NOT AVAILABLE
9		DECAL, TRAVEL LEVER DIRECTION.....	1	NOT AVAILABLE
10		DECAL, WHITEMAN SAFETY INSTRUCTIONS....	1	NOT AVAILABLE
11		DECAL, GASOLINE ONLY	1	NOT AVAILABLE
12		PLATE, SERIAL NUMBER.....	1	CONTACT DISCOUNT-EQUIPMENT

Go to Discount-Equipment.com to order your parts

HYDRAULIC DRIVE ASSY.

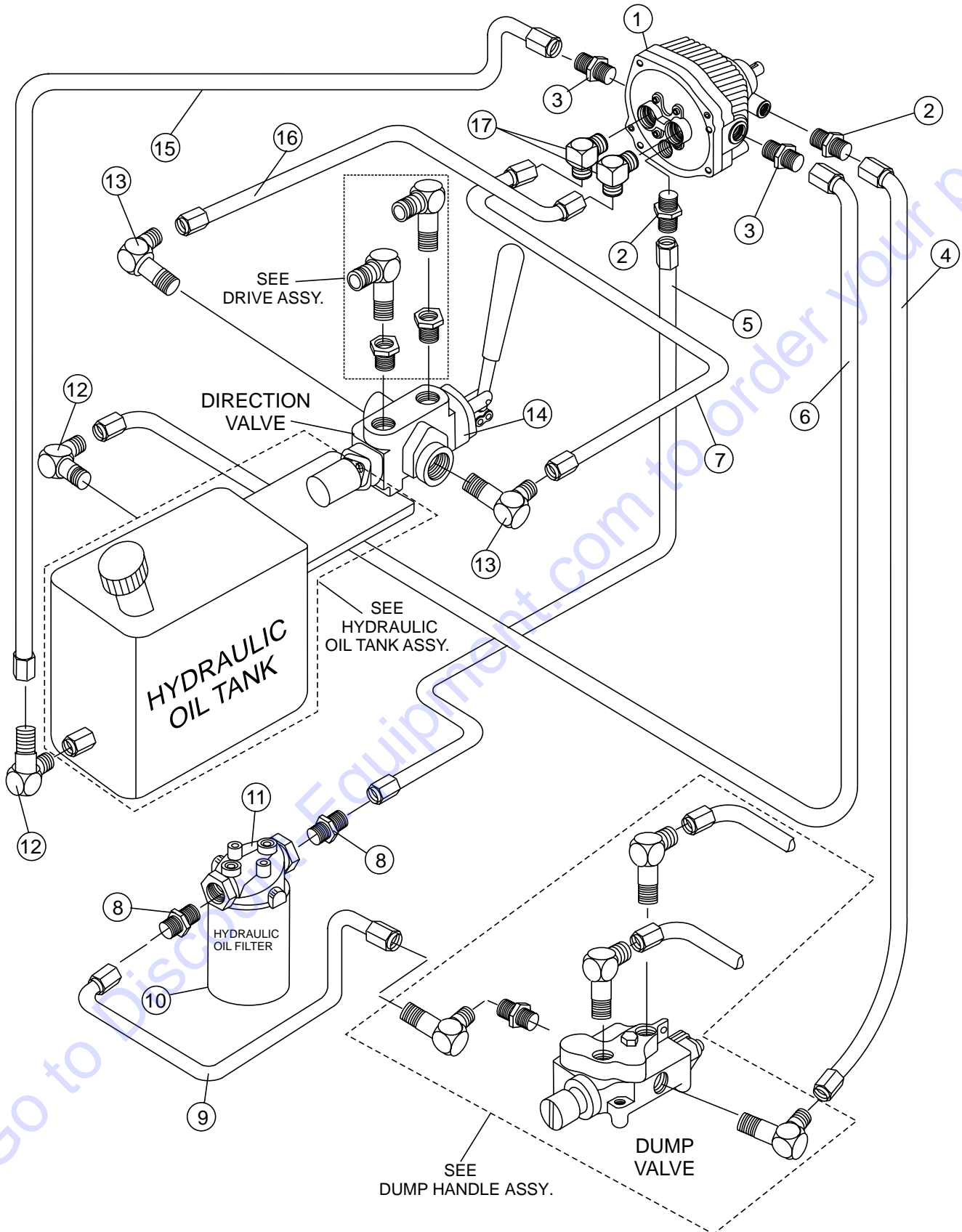
VIEW FROM
OPERATOR'S
PLATFORM



HYDRAULIC DRIVE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18058	VALVE, DIRECTION CONTROL, TRAVEL	1	
1A	18058SK	SEAL KIT, DIRECTIOAL VALVE	1	
2	18264M	HOSE, DIRECTION VALVE TO DRV. MOTOR	1	
4	511810	ADAPTER, ELBOW	2	
5	18276M	HOSE, LH HYDRAULIC MOTOR	1	
6	512189	ADAPTER, T - 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 6109160
12	18190	SCREW, HUB STUD 1/2-13X 3 IN.	8	
13	491689	KEY, COTTER 1/8 X 2	2	
14	PT018038	NUT, CASTLE 1-1/8-18	2	
15	18040	HUB, DRIVE	2	
15	803281	HUB, DRIVE (INDEXED)	2	S/N 14110 AND ABOVE, NOV 2014
16	3365	ADAPTER, STRAIGHT	6	
17	505718	SCREW, HHC 1/2-13 X 2-3/4	8	
18	18011	MOTOR, HYDRAULIC DRIVE	2	
19	PE449105	KEY, WOODRUFF 1-1/4 32 MM	2	
20	492600	WASHER, FLAT 1/2	8	
21	6109180	NUT, HEX 1/2" DIA	8	
22	18027	HOSE, DRIVER MOTOR CROSSOVER	2	
23	18275M	HOSE, RH HYDRAULIC MOTOR	1	
24	18265M	HOSE, DIRECTION VALVE TO DRIVE MOTOR	1	
25	3322	ADAPTER	2	
26	516528	FLANGE HUB ASSY.	1	INCLUDES ITEMS W/\$
30	18011SK	SEAL KIT, DRIVE MOTOR	1	

HYDRAULIC PUMP ASSY.

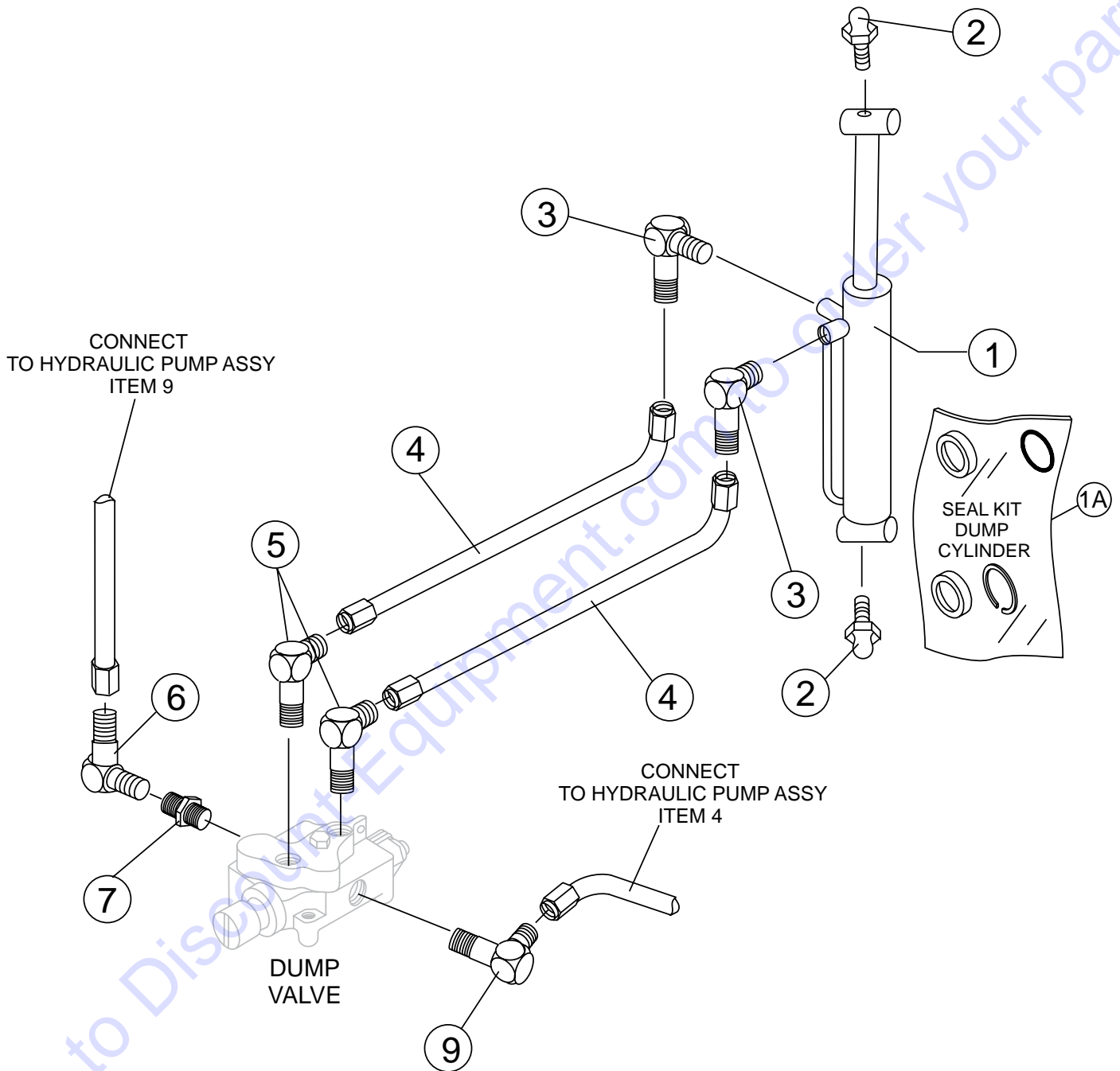


HYDRAULIC PUMP ASSY.

<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	6	
4	18256M	HOSE, PUMP TO DUMP VALVE	1	
5	18258M	HOSE, FILTER TO PUMP	1	
6	18261M	HOSE, PUMP TO TANK	1	
7	18263M	HOSE, PUMP TO DIRECTION VALVE	1	
8	512190	ADAPTER, STRAIGHT	2	
9	18257M	HOSE, FILTER TO DUMP VALVE	1	
10	508667	FILTER	1	
11	508664	SUPPORT, FILTER	1	
12	511799	ADAPTER, ELBOW	2	
13	3322	ADAPTER, ELBOW	2	
14	18058	VALVE, DIRECTION CONTROL, TRAVEL	1	
15	18262M	HOSE, TANK TO PUMP	1	
16	18266M	HOSE, PUMP TO DIRECTION VALVE	1	
17	3322	ADAPTER, ELBOW	2	

Go to Discount-Equipment.com to order your parts

HYDRAULIC DUMP ASSY.

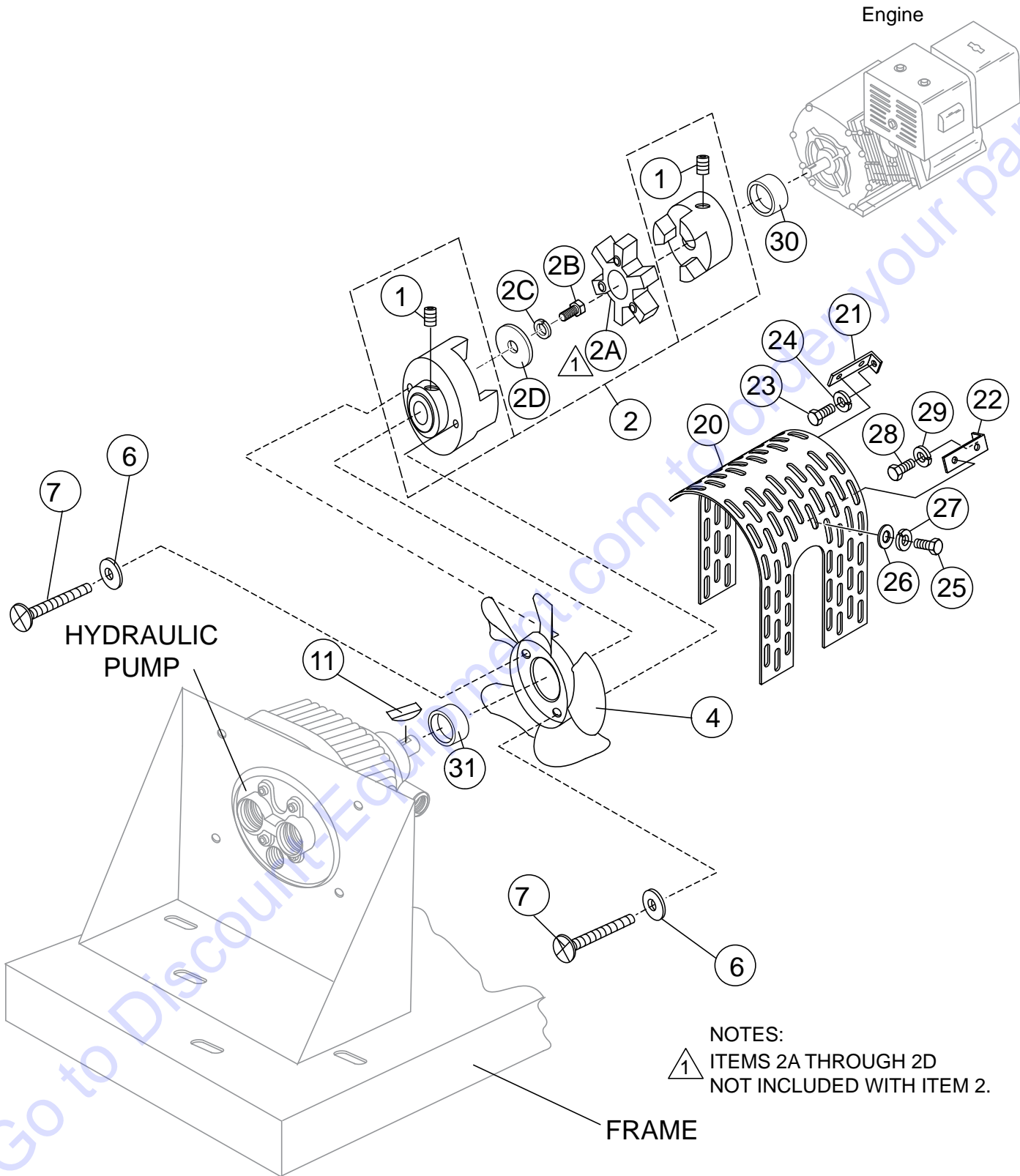


HYDRAULIC DUMP ASSY.

<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, STRAIGHT	2	
6	512234	ADAPTER, ELBOW	1	
7	511806	ADAPTER, STRAIGHT	1	
9	506191	ADAPTER, ELBOW	1	

Go to Discount-Equipment.com to order your parts

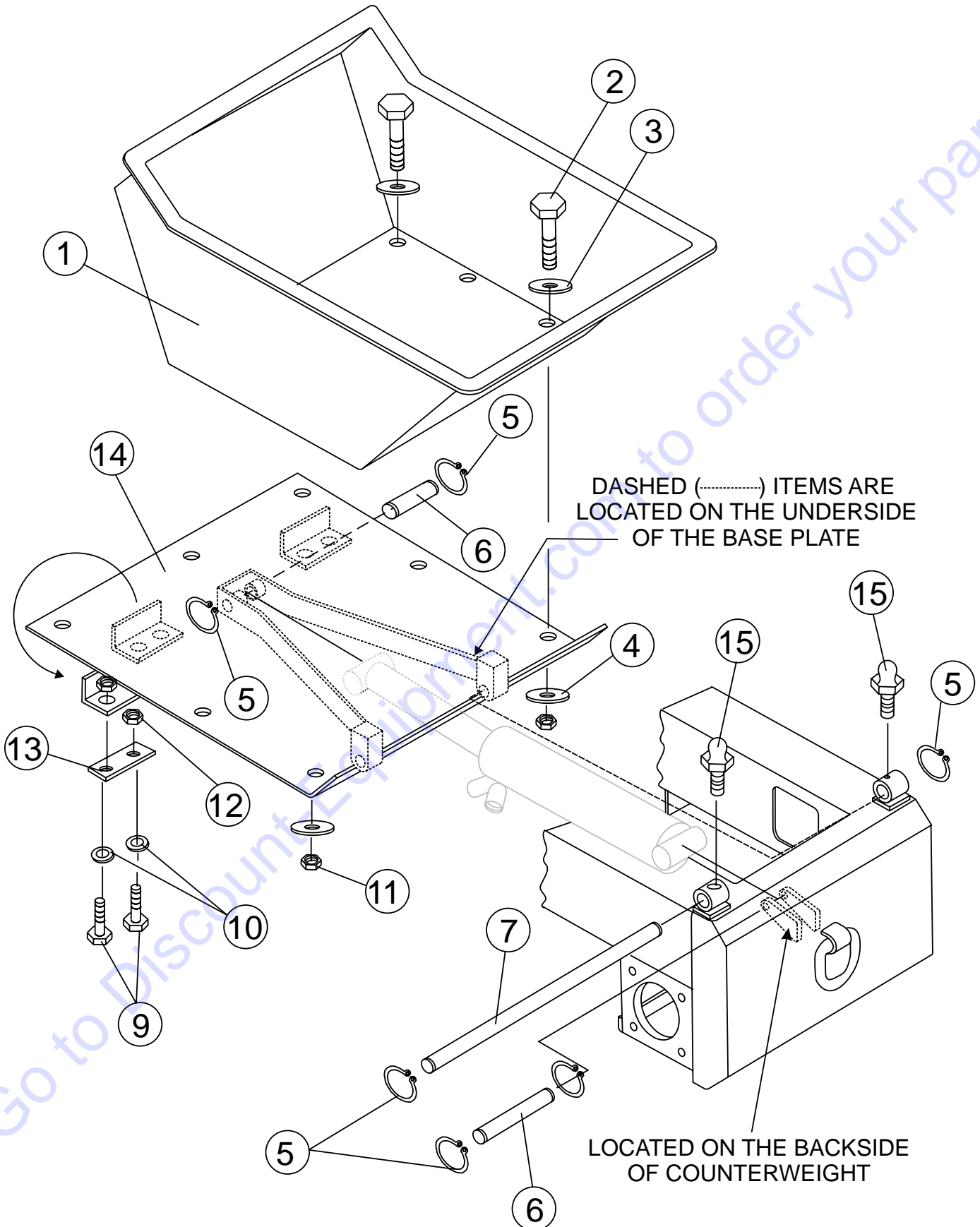
PUMP AND COUPLING ASSY.



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 ITEM W/#
2A	18051RS	SPIDER, URETHANE	1	
2B	492356	SCREW, 1/4 x 3/4 IN. G5	1	
2C	492622	WASHER, LOCK 1/4 IN.	1	
2D	EM923057	WASHER, FLAT 3/4 IN.....	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	512494	FAN GUARD	1	
21	512493	BRACKET, LONG	1	
22	512505	BRACKET, SHORT	1	
23	492373	BOLT, C/H 3/8" NC X 3/4" G5	1	
24	492624	WASHER, LOCK 3/8 IN.	1	
25	512367	BOLT, C/H 3/16" NC X 1/2" G2	4	
26	492595	WASHER, FLAT 3/16 IN.	4	
27	492621	WASHER, LOCK 3/16 IN.	4	
28	492438	BOLT, C/H 5/16" NF X 1" G5	1	
29	492623	WASHER, LOCK 5/16"	1	
30	521310	BUSHING, ENGINE	1	
31	803009	BUSHING, HYDRAULIC PUMP	1	

TUB ASSY.

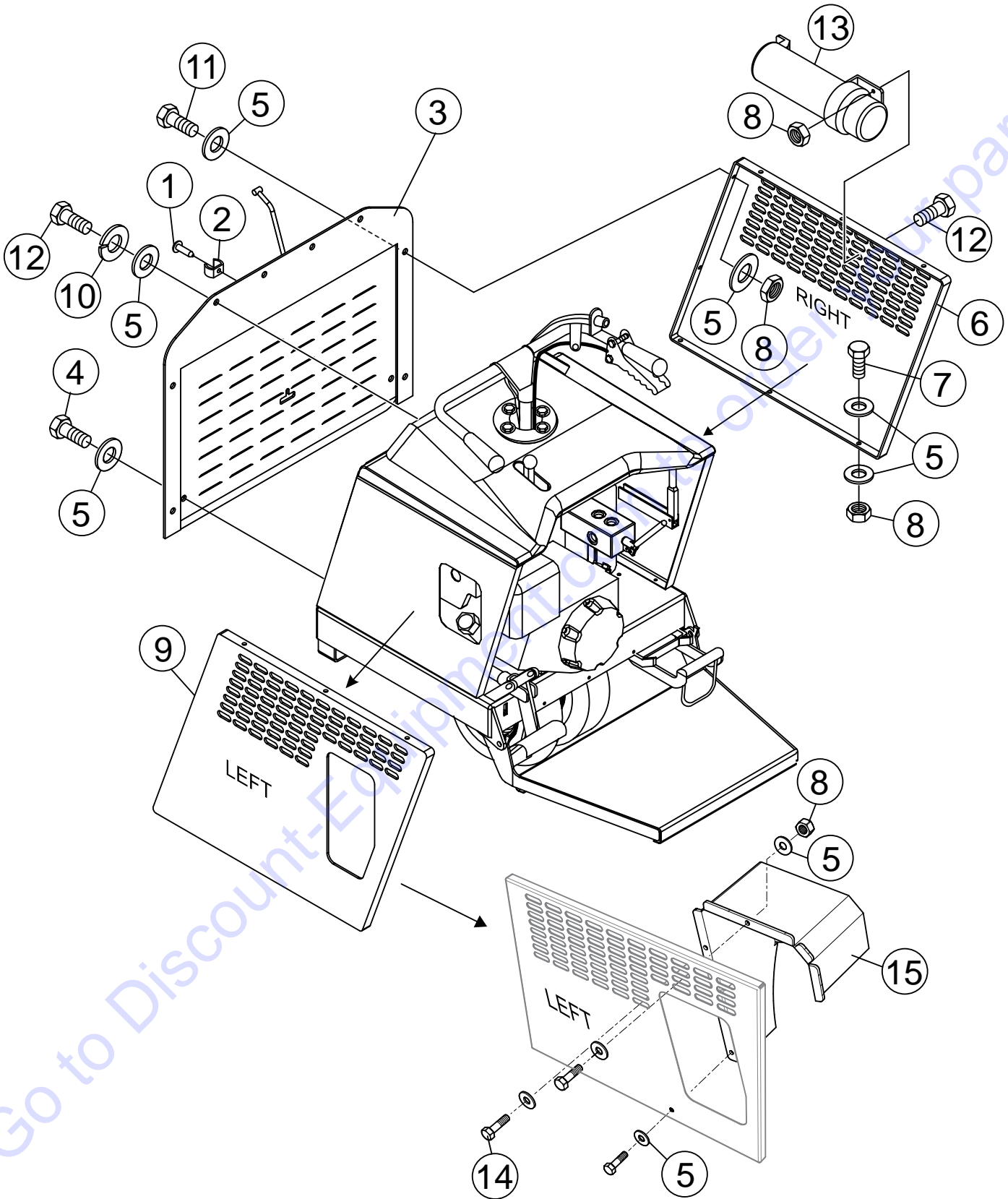


TUB ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18004	TUB, PLASTIC	1	
2	492313	SCREW, HHC 3/8-16 X 1-1/2	9	
3	512193	WASHER, FLAT 3/8 LARGE	9	
4	492598	WASHER, FLAT 3/8	9	
5	490957	RING, SNAP	6	
6	18130	PIN, HYD. PISTON CROSS	2	
7	18129	PIN, TUB FRAME CROSS	1	
9	492365	SCREW, HHC 5/16-18 X 1-1/4	4	
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	1	
15	491705	ZERK GREASE FITTING	2	

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PANEL ASSY.

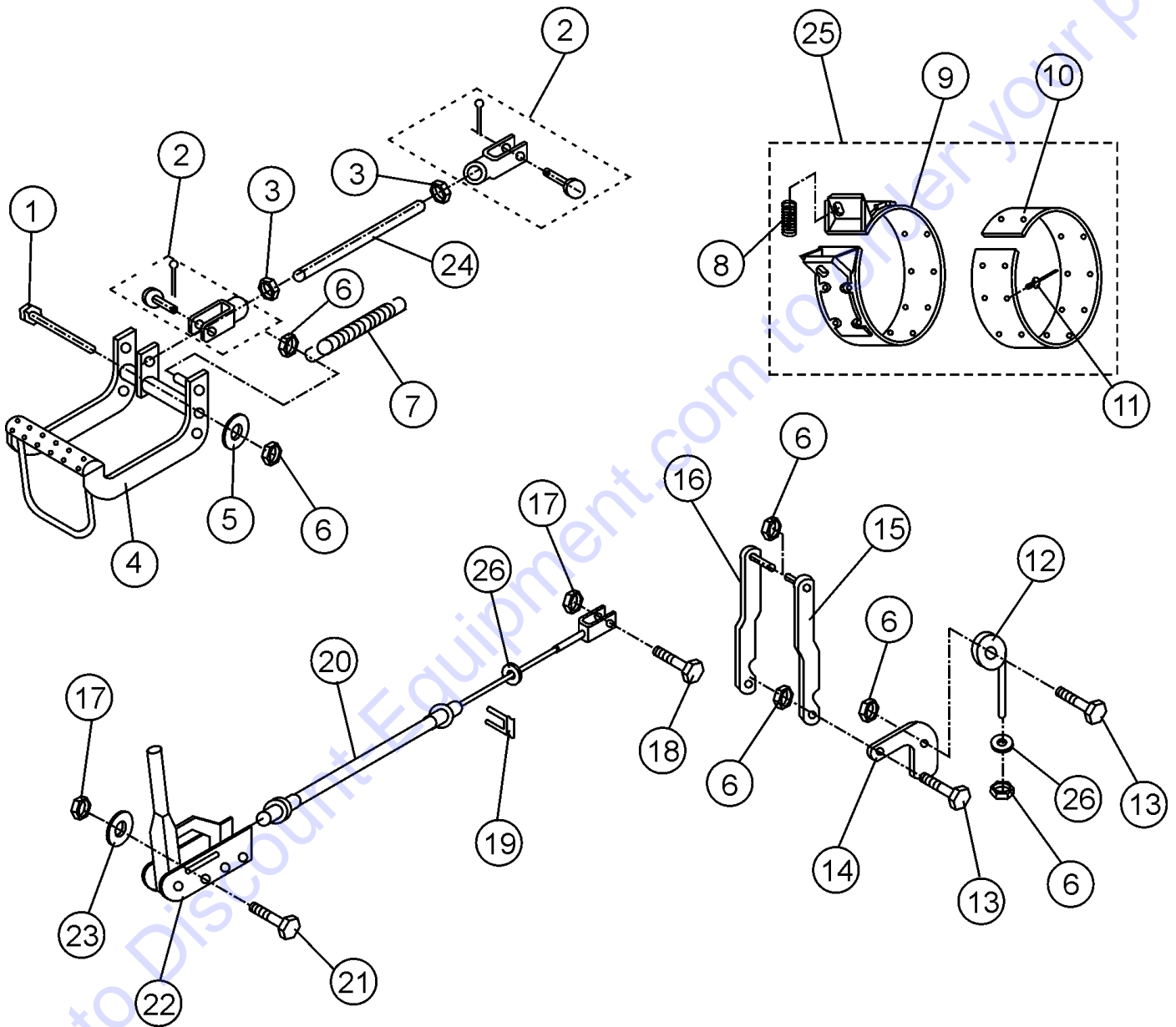


PANEL ASSY.

<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 NC X 1/2 IN. G5	2	
5	492597	WASHER, FLAT 3/8	32	
6	18141	COVER, R/SIDE ENGINE	1	
7	492364	SCREW, HHC 5/16-18X1	6	
8	492582	NUT, NYLOC 5/16-18	9	
9	18140	COVER, L/SIDE ENGINE	1	
10	492623	WASHER, LOCK 5/16	4	
11	505401	SCREW, HHC 5/16-18X 1/2	4	
12	492363	SCREW, HHC 5/16 NC X 3/4 G5	6	
13	23297	MANUAL HOLDER	1	
14	492363	BOLT 5/16" NC X 3/4 G5	3	
15	802755	MUFFLER DEFLECTOR	1.....	S/N 130150 AND ABOVE

Go to Discount-Equipment.com to order your parts

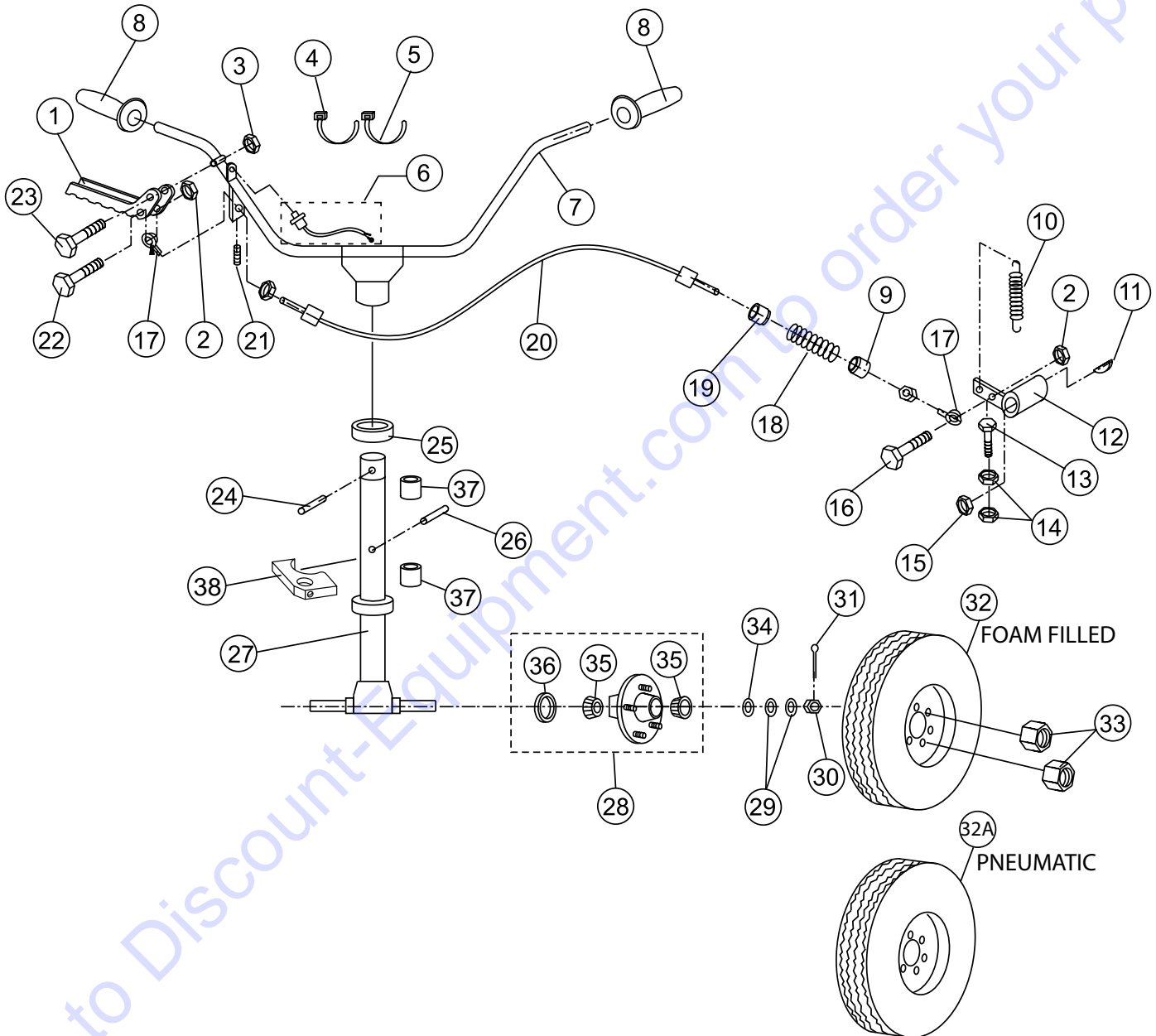
BRAKE ASSY.



BRAKE ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	511762	SCREW, HHC 1/2-13X8	1	
2	511698	CLEVIS, ASSY. BRAKE	2	
3	511761	NUT, HEX 3/8-24 NF	2	
4	18111	PEDAL, BRAKE	1	
5	492600	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\$	18300	BAND, BRAKE	2	
10\$	18316	LINING, BRAKE	2	
11\$	503723	RIVET, BRAKE LINING	56	
12	18303	SHAFT, CRANK PIN	2	
13	492395	SCREW, HHC 1/2-13X1-3/4	2	
14	18302	BELL CRANK, BRAKE	2	
15	18032	LINKAGE, RIGHT BRAKE	1	
16	18314	LINKAGE, LEFT BRAKE	1	
17	492582	NUT, NYLOC 5/16-18	2	
18	492303	SCREW, HHC 5/16-18X1-14	1	
19	505170	CLIP, PARK CABLE	1	
20	18016	CABLE, PARK BRAKE	1	
21	492367	SCREW, HHC 5/16-18X1-3/4	3	
22	18015	LEVER, ASSY. PARK BRAKE	1	
23	492597	WASHER, FLAT 9.5X22.2	3	
24	18145	ROD, BRAKE CONTROL	1	
25	512881	BRAKE BAND ASSEMBLY	2.....	INCLUDES ITEMS W/\$
26	492600	WASHER, FLAT 1/2 IN.	2	

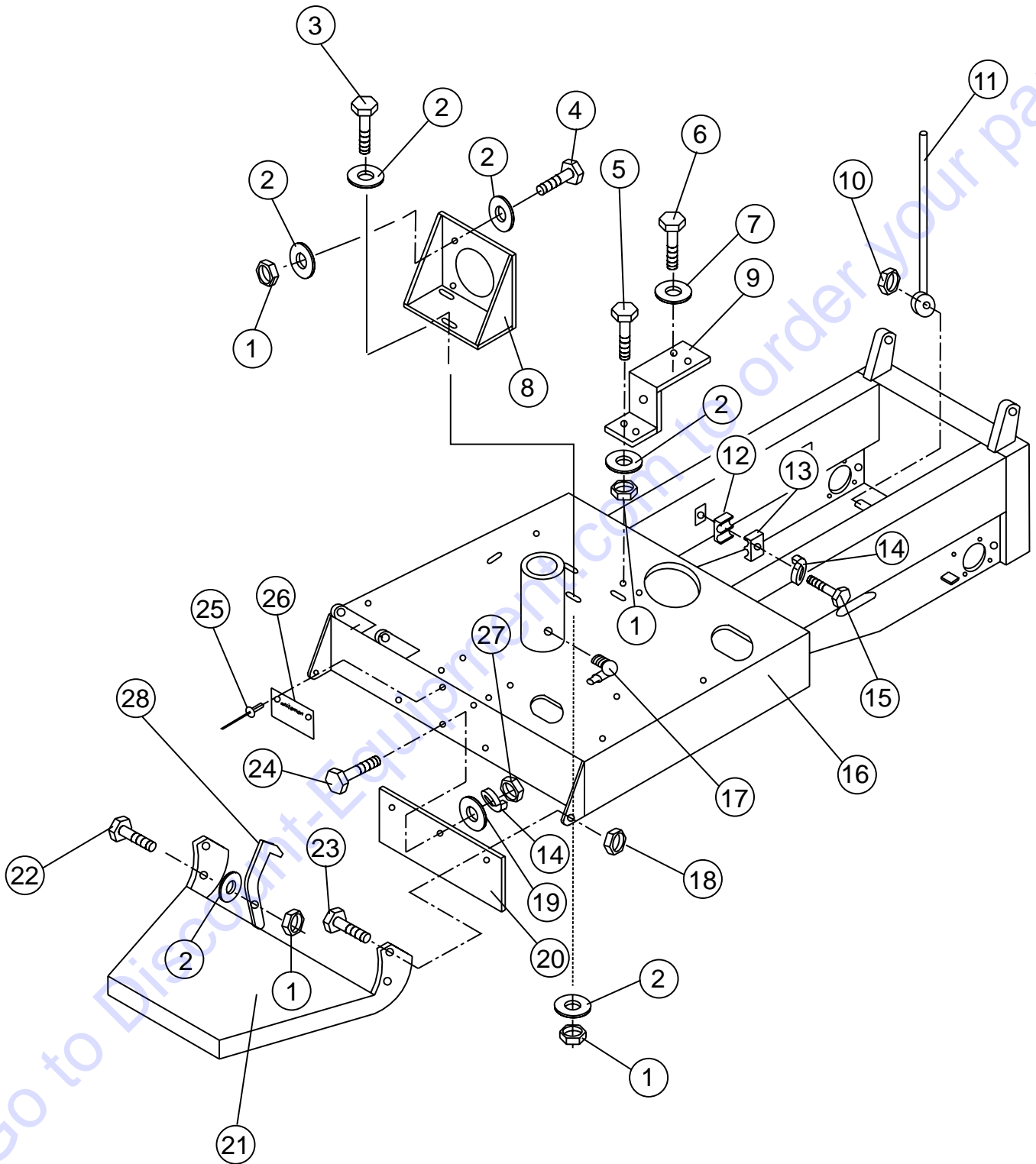
STEERING ASSY.



STEERING ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	18132	LEVER, THROTTLE	1	
2	492581	NUT, NYLOC 1/4-20	1	
3	492582	NUT, NYLOC 5/16-18	1	
4	491030	WRAP, TIE	1	
5	504505	WRAP, TIE	1	
6	18025	SWITCH, KILL	1	
7	18242	HANDLE BAR	1	
8	511432	GRIP, HANDLE	2	
9	18181	BUSHING, CABLE	1	
10	18177	SPRING	1	
11	511717	KEY, WOODRUFF 1/8X5/8	1	
12	18061	LEVER, CONTROL	1	
13	512414	SCREW, HHC 1/4-20 X 2-1/4	1	
14	492561	NUT, HEX 1/4-20	2	
15	492584	NUT, NYLOC 1/2-13	1	
16	492357	SCREW, HHC 1/4-20X1	1	
17	18183	CONNECTOR, THROTTLE CABLE END	2	
18	18176	SPRING	1	
19	18182	BUSHING, CABLE	1	
20	18133	CABLE, THROTTLE	1	
21	492465	SCREW, ALLEN HEAD 1/4-20 X3/8	1	
22	506088	SCREW, HHC 1/4-20X3/8	1	
23	492369	SCREW, HHC 5/16-18X2-1/4	1	
24	491723	PIN, STEERING SHAFT	1	
25	18238	BUSHING, STEERING SHAFT	1	
26	512186	PIN, STEERING SHAFT	1	
27	18091	AXLE, STEERING	1	
28	EM941306	HUB, REAR WHEEL.....	2.....	INCLUDES ITEMS W/#
29	EM501299	WASHER, REAR WHEEL HUB	2	
30	512210	NUT, CASTLE	2	
31	491688	PIN, COTTER 1/8 X 1-1/2	2	
32	18049	WHEEL, STEERING ASSY. REAR.....	2.....	PNEUMATIC TIRE
32A	18049F	WHEEL, STEERING ASSY. REAR.....	2.....	FOAM FILLED TIRE
33	8115	NUT LUG	8	
34	511159	WASHER, FLAT 1 IN.	2	
35#	EM903113	BEARING CONE	2	
36#	15191VB	SEAL	1	
37	512200	BUSHING, BRONZE	2	
38	803151	STOP, STEERING	1	

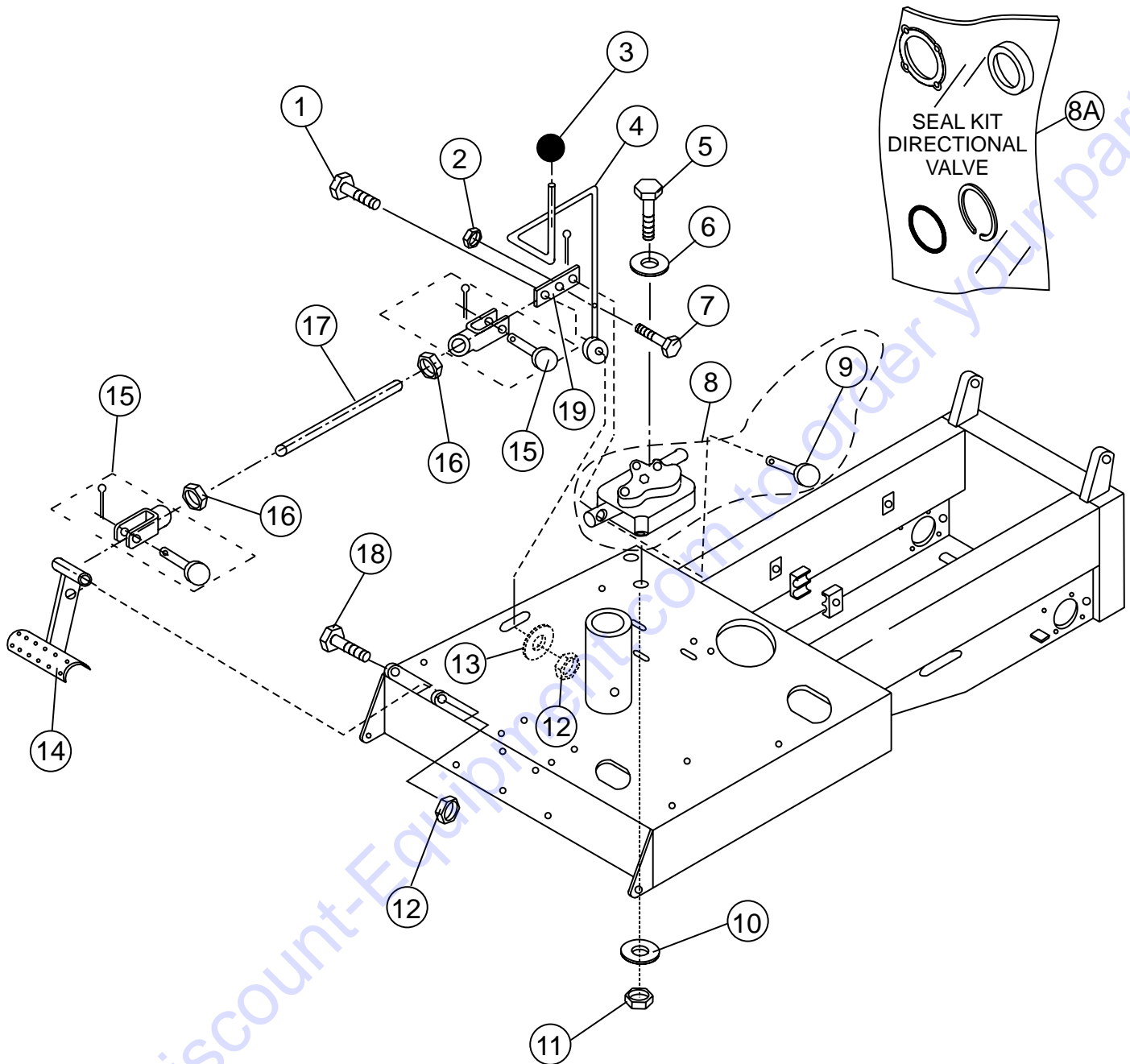
CHASSIS ASSY.



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	492375	SCREW, HHC 3/8 - 16 X 12	2	
6	492357	SCREW, HHC 1/4 - 20 X 12	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	
17	503901	ZERK FITTING 1/4- 28	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	
25	491757	RIVET, I.D. PLATE	2	
26		PLATE, SERIAL NUMBER.....	1	CONTACT DISCOUNT-EQUIPMENT
27	492553	NUT, HEX 5/16- 18	3	
28	18173	LATCH, PLATFORM	1	

DUMP PEDAL AND HANDLE ASSY.

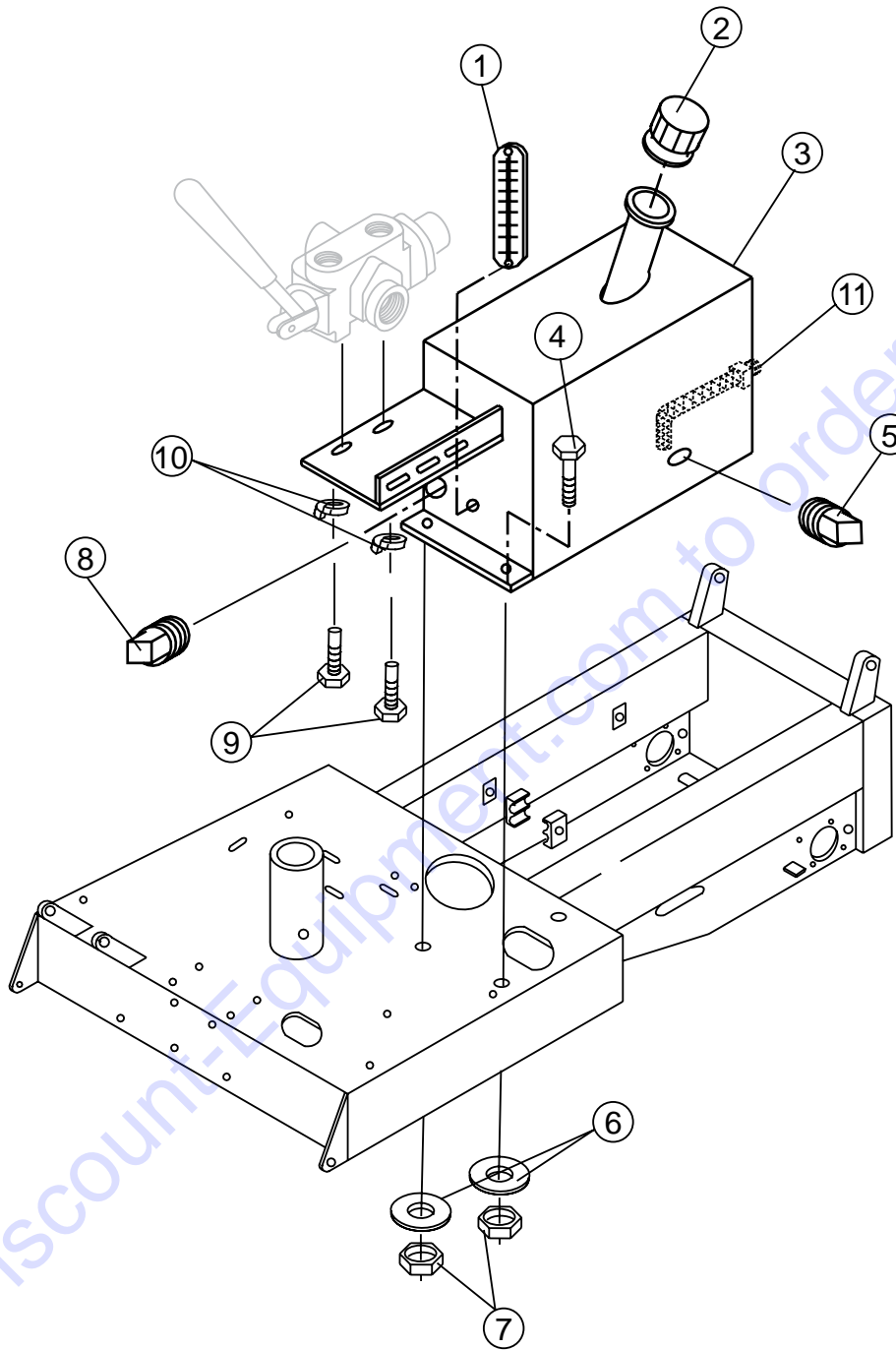


DUMP PEDAL AND HANDLE ASSY.

<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	512184	NUT, NYLOC 3/16- 24	1	
3	18121	KNOB, LEVER	1	
4	18065	LEVER, DUMP VALVE	1	
5	512185	SCREW, HHC 1/4- 20 X1- 3/4	2	
6	492622	WASHER, LOCK 1/4	1	
7	512183	SCREW, HHC 3/16- 24 X1- 1/4	1	
8	18064	VALVE, DUMP	1	INCLUDES ITEMS W/\$
8A	18064A	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	511761	NUT, HEX 3/8- 24 NF	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	

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HYDRAULIC OIL TANK ASSY.

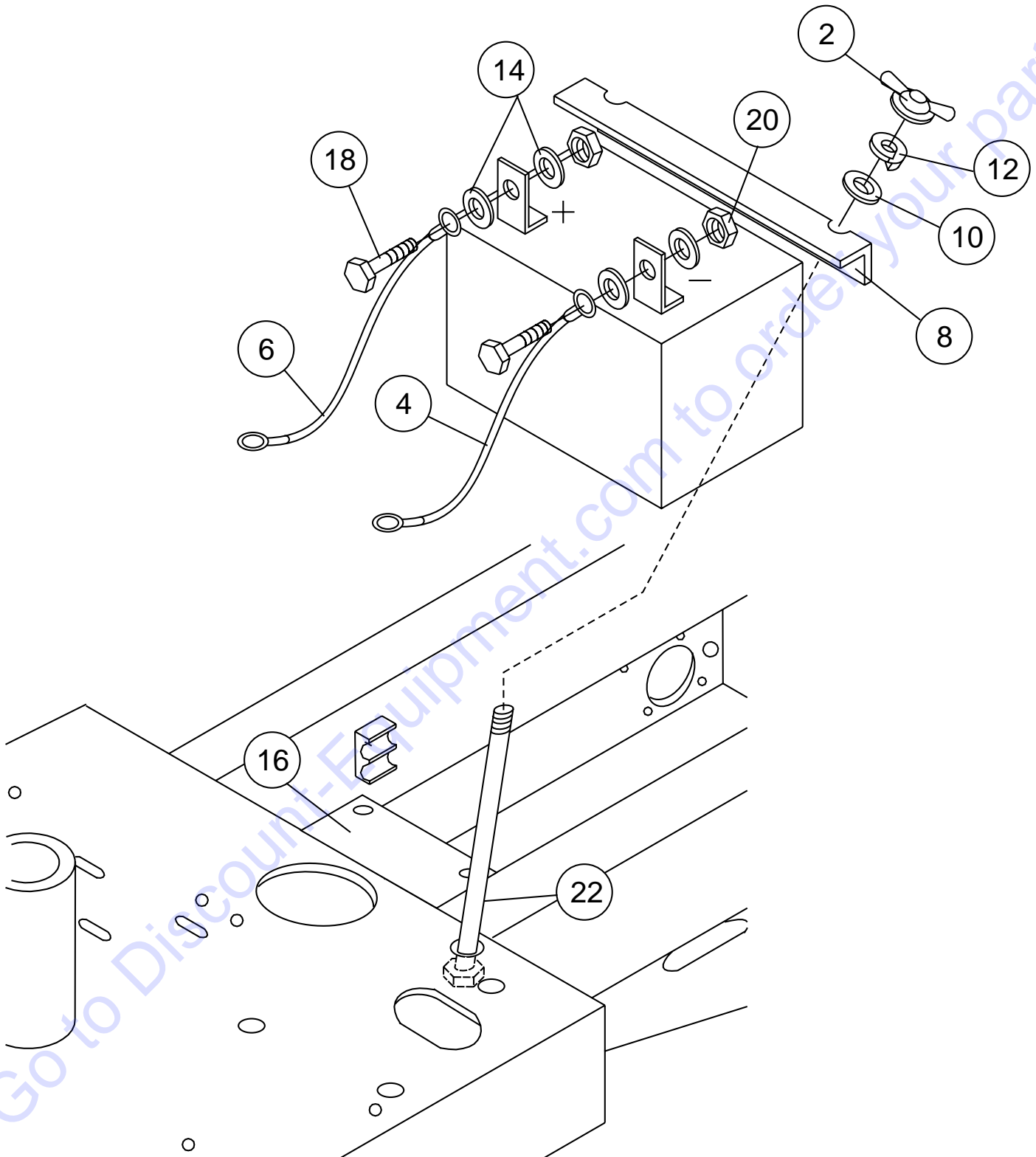


HYDRAULIC OIL TANK ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	3336	SIGHT GAUGE, HYD. OIL TANK	1	
2	16477	CAP, HYD. OIL TANK	1	
3	18113	TANK HYD. OIL	1	
4	492375	SCREW, HHC 3/8-16 X1	3	
5	491212	PLUG, HYD. OIL TANK 1/2"	1	
6	492598	WASHER, FLAT 3/8	3	
7	492583	NUT, NYLOC 3/8-16	3	
8	49123	PLUG, HYD. OIL TANK 3/4	1	
9	492373	SCREW, HHC 3/8-16 X 3/4	2	
10	492624	WASHER, LOCK 3/8	2	
11	18229	SCREEN, OIL RESERVOIR	2	

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BATTERY ASSY. (ELECTRIC START)

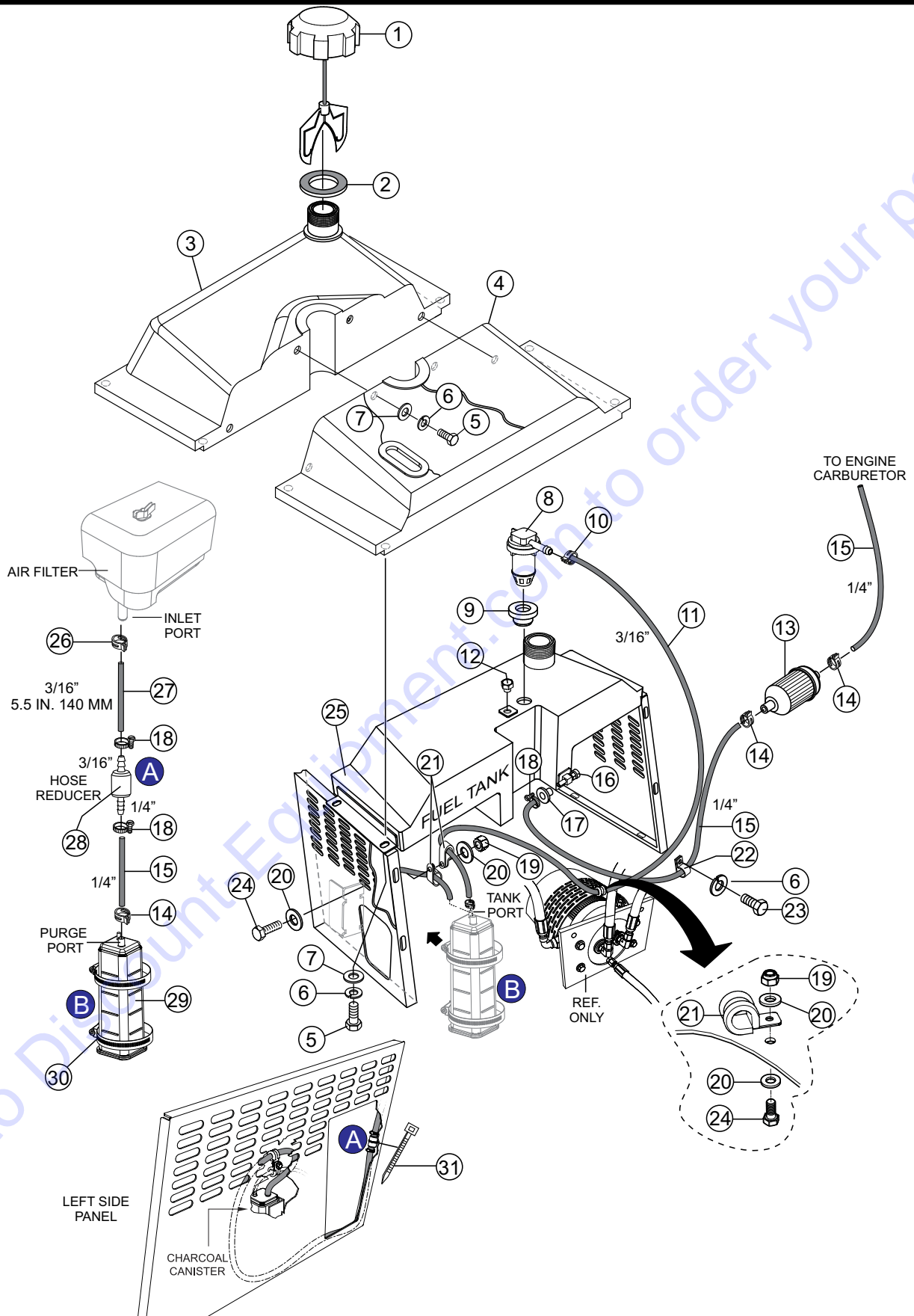


BATTERY ASSY. (ELECTRIC START)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
2	505500	WINGNUT	2	
4	512557	BATTERY CABLE, NEGATIVE	1	
6	511250	BATTERY CABLE, POSITIVE	1	
8	512555	BATTERY SUPPORT BRACKET	1	
10	492596	WASHER, FLAT 1/4"	2	
12	492622	WASHER, LOCK 1/4"	2	
14	492595	WASHER, FLAT 3/16"	4	
16	508480	BATTERY SUPPORT PLATFORM	1	
18	503118	BOLT 3/16" x 1"	2	
20	503119	NUT 3/16"	2	
22	512585	SUPPORT BRACKET BOLT	2	
24	4671	BATTERY	1	

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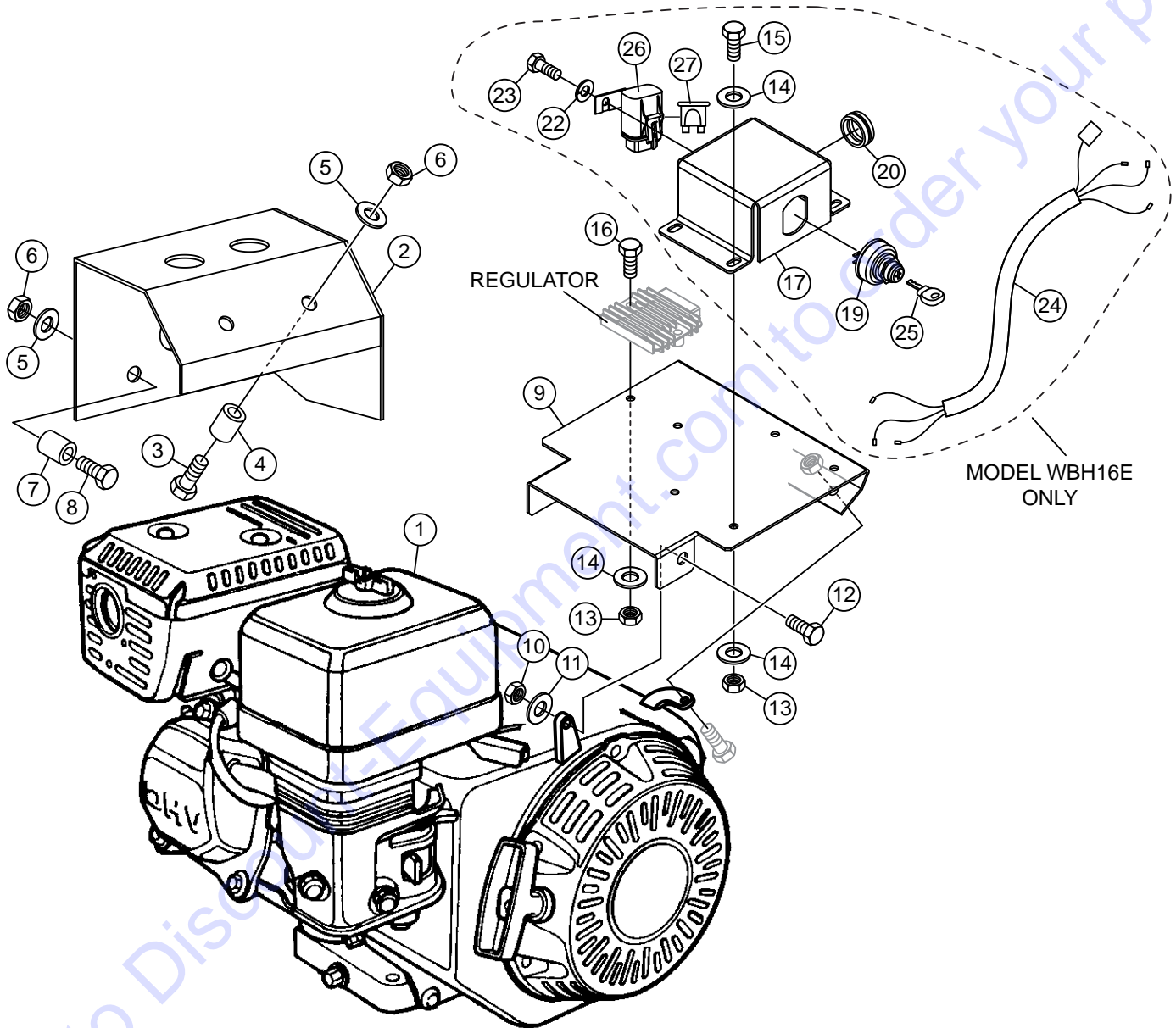
FUEL ASSY.



FUEL ASSY.

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	520820	CAP, FUEL (EPA)	1	
2	802006	FUEL TANK NECK SEAL	1	
3	800845	COVER, FUEL TANK, FRONT	1	
4	515386	COVER, FUEL TANK, REAR	1	
5	492356	SCREW, 1/4 x 3/4 IN. G5	12	
6	492622	WASHER, LOCK 1/4 IN.	13	
7	509161	WASHER, FLAT 1/4 IN.	4	
8	202772	VENT VALVE	1	
9	203403	GROMMET, VENT VALVE	1	
10	802498	TENSION CLAMP	1	
11	60004	3/16" FUEL HOSE EPA, 41"	1	
12	EM911011	PIPE PLUG 3/8"	1	
13	20763	FILTER, FUEL	1	
14	802255	TENSION CLAMP	3	
15	60013	HOSE, FUEL EPA 1/4"	AR	
16	20795	VALVE, FUEL SHUT-OFF	1	
17	19633	SEAL, FUEL TANK GROMMET	1	
18	506208	CLAMP, FUEL HOSE	3	
19	492581	NUT, NYLON 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 IN. G5	1	
24	800056	BOLT, HHCC 1/4" NC X 3/4" G5	2	
25	800841	TANK, FUEL	1	
26	517621	TENSION CLAMP	3	
27	520833	3/16" AIR FILTER HOSE, 5.5 IN.	1	
28	802405	1/4" TO 3/16" HOSE REDUCER	1	
29	23505	CANISTER, CHARCOAL, 390CC	1	
30	510725	CLAMP	2	
31	491030	PLASTIC TIE WRAP	1	

ENGINE ASSY. S/N 130149 AND BELOW)



NOTES:

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

ENGINE ASSY. S/N 130149 AND BELOW)

<u>NO.</u>	<u>PART NO.</u>	<u>PART NAME</u>	<u>QTY.</u>	<u>REMARKS</u>
1	GX390RT2QTT	ENGINE, HONDA 11 HP RECOIL START	1	
1	GX390RT2QNB2	ENGINE, HONDA 11 HP ELECTRIC START	1	
2	801029	GUARD, MUFFLER	1	NO LONGER AVAILABLE REF. PANEL ASSY. ITEM 15
3	503118	BOLT, 3/16" NC X 1" G2	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" NC X 1-1/2"	2	
9	18007	MOTOR COVER	1	
10	492583	NUT, 3/8" NC	2	
11	492598	WASHER 3/8"	2	
12	492313	BOLT, 3/8" NC X 1-1/2" G5	2	
13	492581	NUT, 1/4" NC	6	
14	492596	WASHER, FLAT 1/4"	10	
15	492356	BOLT, 2/4" NC X 3/4" G5	4	
16	492358	BOLT, 1/4" NC X 1-1/4" G5	2	
17	801019	IGNITION SWITCH BOX	1	
19	10958	IGNITION SWITCH	1	
20	800921	GROMMET	1	
22	492621	WASHER, LOCK 3/16"	1	
23	503115	BOLT, 3/16" NC X 3/4" G2	1	
24	801014	ELECTRICAL HARNESS	1	
25	11078	KEY, IGNITION SWITCH	1	
26	EM98066	FUSE HOLDER	1	
27	EM98287	FUSE, 25 AMP	1	

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