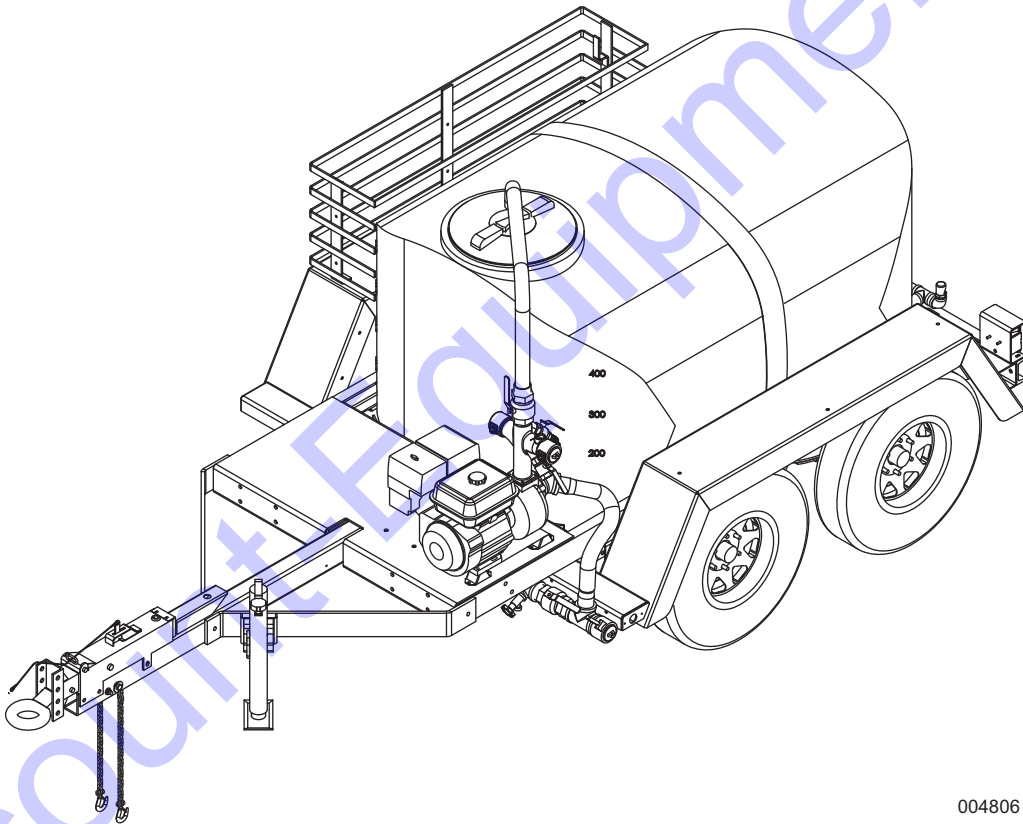


GENERAC®

MAGNUM

Owner's Manual *Water Trailer*

MWT500



004806

**Discount
Equipment**

www.discount-equipment.com

SAVE THIS MANUAL FOR FUTURE REFERENCE

Discount Equipment

Discount-Equipment.com is your online resource for commercial and industrial quality parts and equipment sales.

Locations:

Florida (West Palm Beach): [561-964-4949](tel:561-964-4949)

Outside Florida TOLL FREE: [877-690-3101](tel:877-690-3101)

Need parts? Check out our website at www.discount-equipment.com

Can't find what you need?

Click on this link: <http://www.discount-equipment.com/category/5443-parts/> and fill out the request form.

Please have the machine model and serial number available in order to help us get you the correct parts. 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, Mayco, Toro/Stone, Diamond Products, Magnum, Airman, Mustang, Power Blanket, Nifty Lift, Atlas Copco, Chicago Pneumatic, Allmand Brothers, Essick, Miller Spreader, Skyjack, Lull, Skytrak, Tsurumi, Husquvarna/Target, Whiteman-Concrete/Mortar, Stow-Concrete/Mortar, Baldor, Wacker, Sakai, Snorkel, Upright, Mi-T-M, Sullair, Neal, Basic, Dynapac, MBW, Weber, Bartell, Bennar Newman, Haulotte, Ditch Runner, Blaw-Knox, Himoina, Best, Buddy, Crown, Edco, Wyco, Bomag, Laymor, Terremite, Barreto, EZ Trench, Takeuchi, Basic, Bil-Jax, Curtis, Gehl, Heli, Honda, ICS/PowerGrit, Puckett, Waldon, ASV, IHI, Partner, Imer, Clipper, MMD, Koshin, Rice, Gorman Rupp, CH&E, Cat Pumps, Comet, General Pump, Giant, AMIDA, Coleman, NAC, Gradall, Square Shooter, Kent, Stanley, Tamco, Toku, Hatz, Kohler, Robin, Wisconsin, Northrock, Oztec, Toker TK, Rol-Air, Small Line, Wanco, Yanmar

New Equipment - Used Equipment - Rental Equipment - Parts and Accessories

Discount Equipment

www.discount-equipment.com

561-964-4949

Parts: wbparts@Discount-Equipment.com

Sales: info@Discount-Equipment.com

Use this page to record important information about your unit

Unit Model Number	
Unit Serial Number	
Engine Model Number	
Engine Serial Number	
Generator Model Number	
Generator Serial Number	

Record the information found on your unit data label on this page. See [Unit Serial Number Locations](#).

Engine and generator serial numbers are located on data plates affixed to the engine and generator, respectively. When contacting a Generac Mobile Products Authorized Service Dealer (GMP ASD) about parts and service, always provide the unit model and serial number.

Operation and Maintenance: Proper maintenance and care of the unit ensures a minimum number of problems and keeps operating expenses at a minimum. It is the operator's responsibility to perform all safety checks, to verify that all maintenance for safe operation is performed promptly, and to have the equipment checked periodically by a GMP ASD. Normal maintenance, service, and replacement of parts are the responsibility of the owner/operator and, as such, are not considered defects in materials or workmanship within the terms of the warranty. Individual operating habits and usage may contribute to the need for additional maintenance or service.

WARNING

Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to www.P65Warnings.ca.gov.

(000393)

Table of Contents

Section 1: Introduction and Safety

Introduction	1
Read This Manual Thoroughly	1
How to Obtain Service	1
Safety Rules	1
General Hazards	2
Electrical Hazards	2
Explosion and Fire Hazards	2
Trailer Hazards	2
Fuel Hazards	3
Engine Safety	3
Operating Safety	3
Towing Safety	4
Hitch and Coupling	4
Running Lights	4
Wheels and Tires	4
Safe Towing Techniques	4
Reporting Trailer Safety Defects	4

Section 2: General Information

Unit Specifications	5
Unit Serial Number Locations	6
Component Locations	7
Trailer Tongue and Storage Bin	7
Filling and Discharging Water	8

Section 3: Operation

Preparing Unit for Use	9
Using Valves and Cam Locks	9
Filling Water Tank	9
Hydrant as Fill Source	9
Reservoir as Fill Source	10
Discharging Water from Tank	10
Using Rear Spray Bar	10
Using 2-Inch Flexible Spray Hose	10
Using 5/8-Inch Flexible Spray Hose	11
Using Gravity Drain Bibb	11
Adjusting Rear Spray Bar	11
Draining Water from System	12

Section 4: Maintenance

Basic Schedule	13
Engine and Water Pump	13
Long-Term Storage	13
Jack	14
Side-Wind Models	14
Top-Wind Models	14

Section 5: Troubleshooting

Section 6: Wiring Diagrams

Trailer	17
Wiring Harness—Electric Brake Option	18

Section 7: Service Log

Section 1: Introduction and Safety

Introduction

Thank you for purchasing a Generac Mobile Products, LLC product. This unit has been designed to provide high performance, efficient operation, and years of use when maintained properly.

The information in this manual is accurate based on products produced at the time of publication. The manufacturer reserves the right to make technical updates, corrections, and product revisions at any time without notice.

Read This Manual Thoroughly



⚠ WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

The owner is responsible for proper maintenance and safe use of the equipment. Comply with regulations the Occupational Safety and Health Administration (OSHA) has established, or with equivalent standards. Also, verify the unit is applied, used, and maintained in accordance with the manufacturer's instructions and recommendations. Do nothing that might alter safe application/usage and render the unit in noncompliance with the aforementioned codes, standards, laws, and regulations.

Save these instructions for future reference. This manual contains important instructions for the unit that should be followed during setup, operation, and maintenance of the unit and battery. ALWAYS supply this manual to any individual who will use this machine.

How to Obtain Service

When the unit requires servicing or repairs, contact a Generac Mobile Products Authorized Dealer for assistance. Service technicians are factory-trained and are capable of handling all service needs. When contacting a Generac Mobile Products Authorized Dealer about parts and service, always supply the complete model number and serial number of the unit as given on the data decal located on the unit (see [Figure 2-1](#)). Record the model number and serial numbers in the spaces provided on the inside front cover of this manual.

Safety Rules

The manufacturer cannot anticipate every possible circumstance that might involve a hazard. The alerts in this manual, and on tags and decals affixed to the unit, are not all inclusive. If using a procedure, work method, or operating technique that the manufacturer does not specifically recommend, verify that it is safe for others and does not render the equipment unsafe.

Throughout this publication, and on tags and decals affixed to the unit, DANGER, WARNING, CAUTION, and NOTE blocks are used to alert personnel to special instructions about a particular operation that may be hazardous if performed incorrectly or carelessly. Observe them carefully. Alert definitions are as follows:

⚠ DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

(000001)

⚠ WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

(000002)

⚠ CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

(000003)

NOTE: Notes contain additional information important to a procedure and will be found within the regular text of this manual.

These safety alerts cannot eliminate the hazards that they indicate. Common sense and strict compliance with the special instructions while performing the action or service are essential to preventing accidents.

General Hazards



⚠ DANGER

Asphyxiation. Running engines produce carbon monoxide, a colorless, odorless, poisonous gas. Carbon monoxide, if not avoided, will result in death or serious injury. (000103)



⚠ WARNING

Hearing Loss. Hearing protection is recommended when using this machine. Failure to wear hearing protection could result in permanent hearing loss. (000107)



⚠ WARNING

Moving Parts. Keep clothing, hair, and appendages away from moving parts. Failure to do so could result in death or serious injury. (000111)



⚠ WARNING

Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire. (000108)

⚠ WARNING

Risk of injury. Do not operate or service this machine if not fully alert. Fatigue can impair the ability to service this equipment and could result in death or serious injury. (000215)



⚠ WARNING

Risk of burns. Allow engine to cool before draining oil or coolant. Failure to do so could result in death or serious injury. (000139)

Electrical Hazards



⚠ DANGER

Electrocution. Water contact with a power source, if not avoided, will result in death or serious injury. (000104)

Explosion and Fire Hazards



⚠ DANGER

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Add fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury. (000105)



⚠ WARNING

Risk of Fire. Unit must be positioned in a manner that prevents combustible material accumulation underneath. Failure to do so could result in death or serious injury. (000147)



⚠ WARNING

Risk of Fire. Hot surfaces could ignite combustibles, resulting in fire. Fire could result in death or serious injury. (000110)

Trailer Hazards

⚠ WARNING

Personal injury. Trailer must be securely coupled to the hitch with the chains correctly attached. Uncoupled or unchained towing could result in death or serious injury. (000233a)

⚠ WARNING

Crushing hazard. Verify unit is properly secured and on level ground. An unsecured unit can suddenly roll or move, causing death or serious injury. (000234a)

⚠ WARNING

Property or Equipment Damage. Tighten wheel lug nuts after first 50 miles to factory specifications. Failure to do so could result in death, serious injury, property or equipment damage. (000235)

Fuel Hazards



⚠ DANGER

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Add fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury. (000105)



⚠ DANGER

Explosion and Fire. Fuel and vapors are extremely flammable and explosive. Store fuel in a well ventilated area. Keep fire and spark away. Failure to do so will result in death or serious injury. (000143)



⚠ DANGER

Explosion and fire. Fuel and vapors are extremely flammable and explosive. No leakage of fuel is permitted. Keep fire and spark away. Failure to do so will result in death or serious injury. (000192)



⚠ DANGER

Risk of fire. Allow fuel spills to completely dry before starting engine. Failure to do so will result in death or serious injury. (000174)

- **DO NOT** operate with the fuel tank cap loose or missing.

Engine Safety

Internal combustion engines present special hazards during operation and fueling. Failure to follow the safety guidelines described below could result in severe injury or death. Read and follow all safety alerts described in the engine operator's manual. A copy of this manual was supplied with the unit when it was shipped from the factory.



⚠ DANGER

Asphyxiation. The exhaust system must be properly maintained. Do not alter or modify the exhaust system as to render it unsafe or make it noncompliant with local codes and/or standards. Failure to do so will result in death or serious injury. (000179b)



⚠ DANGER

Asphyxiation. Running engines produce carbon monoxide, a colorless, odorless, poisonous gas. Carbon monoxide, if not avoided, will result in death or serious injury. (000103)



⚠ WARNING

Risk of Fire. Unit must be positioned in a manner that prevents combustible material accumulation underneath. Failure to do so could result in death or serious injury. (000147)

- **DO NOT** clean air filter with gasoline or other types of low flash point solvents.
- Shut off engine if any of the following conditions exist during operation.
 - Abnormal change in engine speed
 - Loss of pumping output
 - Sparking occurs
 - Engine misfires or there is excessive engine vibration

Operating Safety

⚠ DANGER

Not for human consumption. Water in tank is not potable. Using tank water for human consumption will result in death or serious injury. (000361)



⚠ WARNING

Moving Parts. Keep clothing, hair, and appendages away from moving parts. Failure to do so could result in death or serious injury. (000111)



⚠ WARNING

Personal injury. Risk of fluid injection. Do not aim spray gun at people, animals, electrical devices, or fragile items. Keep out of reach of children. Failure to do so may cause death or serious injury. (000117b)



⚠ WARNING

Personal injury. Failure to properly connect lifting cables, chains, or straps could result in death, serious injury, or property damage. (000346)

- The area immediately surrounding the unit should be dry, clean, and free of debris.
- Position and operate the unit on a firm, level surface.
- Always keep water tank cover in place.
- **DO NOT** enter tank.

- **DO NOT** drive over hoses while pressurized or while pump is running.
- **NEVER** leave unit unattended while pump is running.
- **DO NOT** start a unit that needs repair.

Towing Safety

Towing a trailer requires care. Both the trailer and vehicle must be in good condition and securely fastened to each other to reduce the possibility of an accident. Some states require large trailers to be registered and licensed. Contact your local Department of Transportation office to check on license requirements for your particular unit.

Hitch and Coupling

WARNING

Personal injury. Trailer must be securely coupled to the hitch with the chains correctly attached. Uncoupled or unchained towing could result in death or serious injury.

(000233a)

- Verify the hitch and coupling on the towing vehicle are rated equal to, or greater than, the trailer's Gross Vehicle Weight Rating (GVWR).
- Verify the trailer hitch and the coupling are compatible. Make sure the coupling is securely fastened to the vehicle.
- **DO NOT** tow trailer using defective parts. Inspect the hitch and coupling for wear or damage.
- Connect safety chains in a crossing pattern under the tongue. **Attach breakaway cable to rear bumper of towing vehicle.** Do not attach cable to trailer hitch.
- Before towing the trailer, verify the weight of the trailer is equal across all tires. On trailers with adjustable height hitches, adjust the angle of the trailer tongue to keep the trailer as level as possible.

Running Lights

Verify directional and brake lights on the trailer are connected and working properly.

Wheels and Tires

WARNING

Property or Equipment Damage. Tighten wheel lug nuts after first 50 miles to factory specifications. Failure to do so could result in death, serious injury, property or equipment damage.

(000235)

- Check trailer tires for wear and proper inflation.

Safe Towing Techniques

- Practice turning, stopping, and backing up in an area away from heavy traffic prior to transporting the unit.
- Maximum recommended speed for highway towing is 45 mph (72 km/h). Recommended off-road towing speed is 10 mph (16 km/h) or less, depending on terrain.
- When towing, maintain extra space between vehicles and avoid soft shoulders, curbs, and sudden lane changes.

Reporting Trailer Safety Defects

If you believe your trailer has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Generac Mobile Products LLC.

If NHTSA receives similar complaints, it may open an investigation; and if it finds that a safety defect exists in a group of vehicles, it may order a recall-and-remedy campaign. However, NHTSA cannot become involved in an individual problem between you, your dealer, or Generac Mobile Products LLC.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-888-327-4236 (TTY:1-800-424-9153), go to www.safercar.gov, or write to:

Administrator
NHTSA
1200 New Jersey Avenue S.E.
Washington, DC 20590

You can also obtain other information about motor vehicle safety from www.safercar.gov.

Section 2: General Information

Unit Specifications

DESCRIPTION	UNITS	MWT500
Engine		
Make/Brand	—	Honda
Model	—	GX120
Horsepower—Prime	hp (kW)	3.5 (2.6)
Operating Speed	rpm	3600
Fuel Consumption—100% Prime	gph (Lph)	0.18 (0.68)
Fuel Consumption—75% Prime	gph (Lph)	0.14 (0.53)
Fuel Consumption—50% Prime	gph (Lph)	0.09 (0.34)
Pump		
Make/Brand	—	Tsurumi
Model	—	TE2-50HA
Type	—	Centrifugal
Fitting Type	—	2 in. cam and groove
Water Tank		
Capacity	gal (L)	500 (1895)
Fill Rate	—	3-4 min. full tank at full throttle
Dimensions		
L x W x H	in (m)	160 x 77 x 64 (4.06 x 1.96 x 1.63)
Weights		
Trailer w/ Empty Water Tank	lbs (kg)	1747 (792)
Trailer w/ Full Water Tank	lbs (kg)	5747 (2607)
Capacities		
Fuel Tank	gal (L)	0.66 (2.50)
Maximum Pump Output Fuel Volume	gpm (Lpm)	137 (517)
Maximum Lift Suction	ft (m)	28 (8.5)
Total Dynamic Head	ft (m)	115 (35)
Maximum Pressure	psi (kPa)	49.7 (343)
Maximum Pump Speed	rpm	4000
Trailer		
Number of Axles	quantity	2
Capacity—Axle Rating	lbs (kg)	3500 (1588)
Tire Size	—	ST225/75D15
Brakes	—	Hydraulic
Hitch—Standard	—	3 in. Tow Ring
Maximum Tire Pressure	psi (kPa)	65 (448)
<i>Specifications are subject to change without notice.</i>		

Unit Serial Number Locations

See **Figure 2-1** for unit ID and Vehicle Identification Number (VIN) tags. Important information, such as the unit serial number, model number, VIN, and tire loading information display on the tags. Record the information from these tags so it is available if the tags are lost or damaged. When ordering parts or requesting assistance, you may be asked to provide this information.

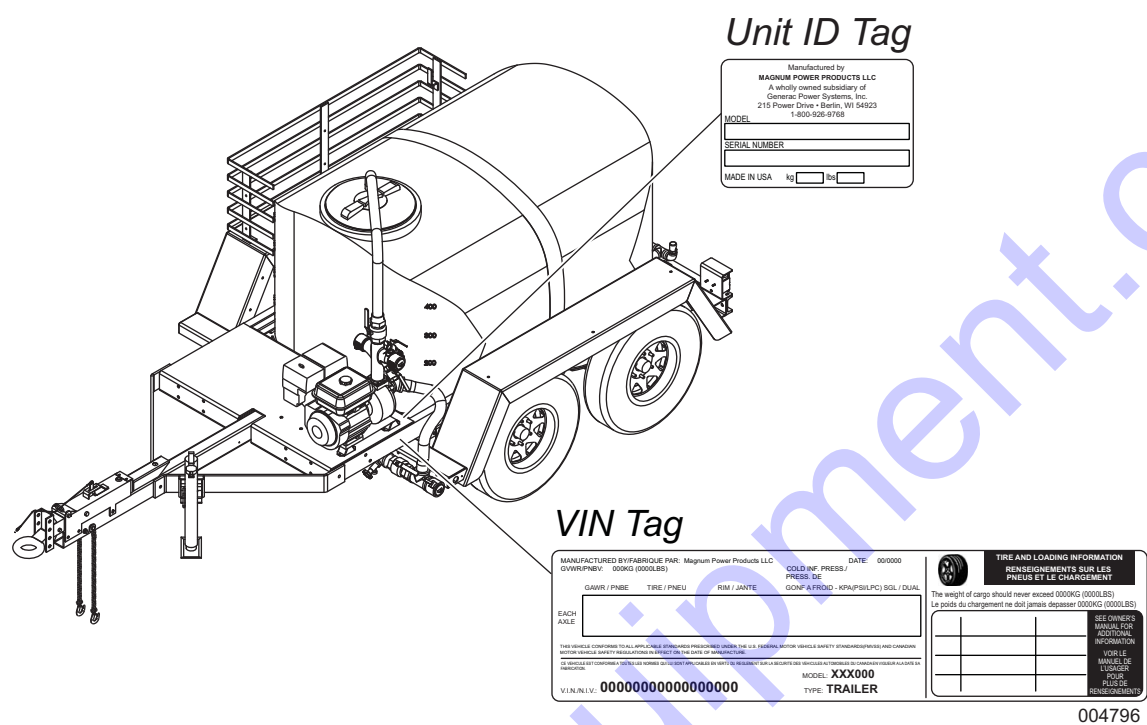


Figure 2-1. Serial Number Locations

Component Locations

Trailer Tongue and Storage Bin

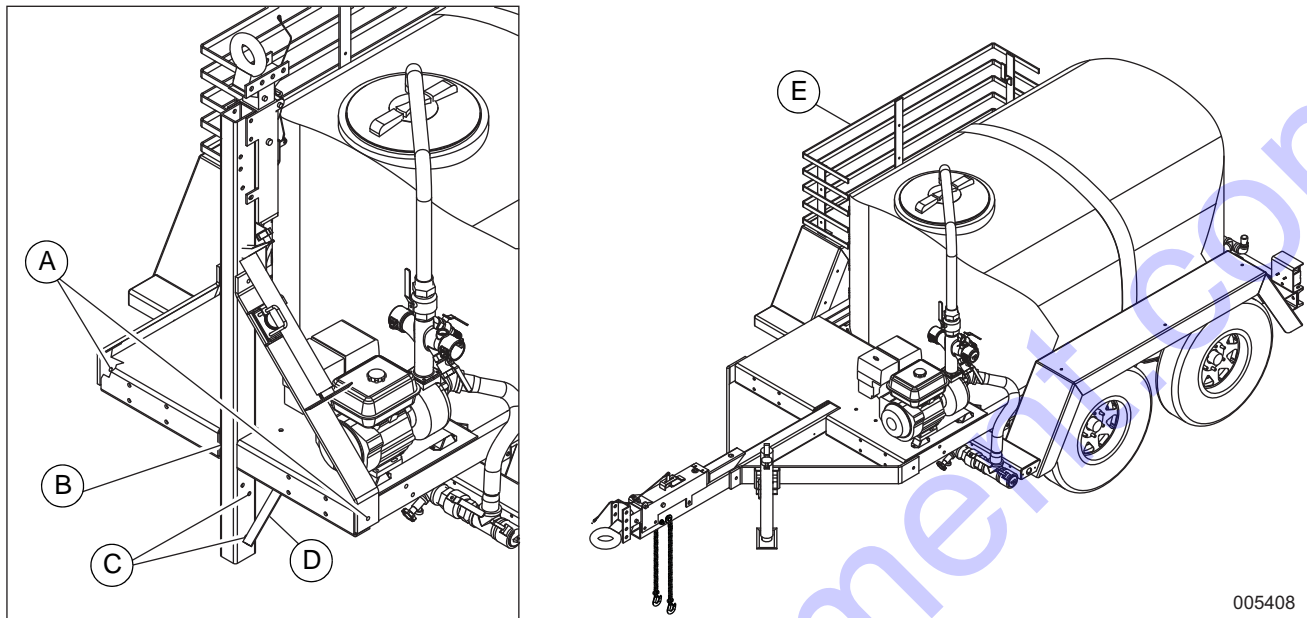


Figure 2-2. Trailer Tongue and Storage Bin

Item	Description
A	Side pivot bolts
B	Center pivot bolt
C	Tongue hardware holes
D	Tongue brace
E	Storage bin

Filling and Discharging Water

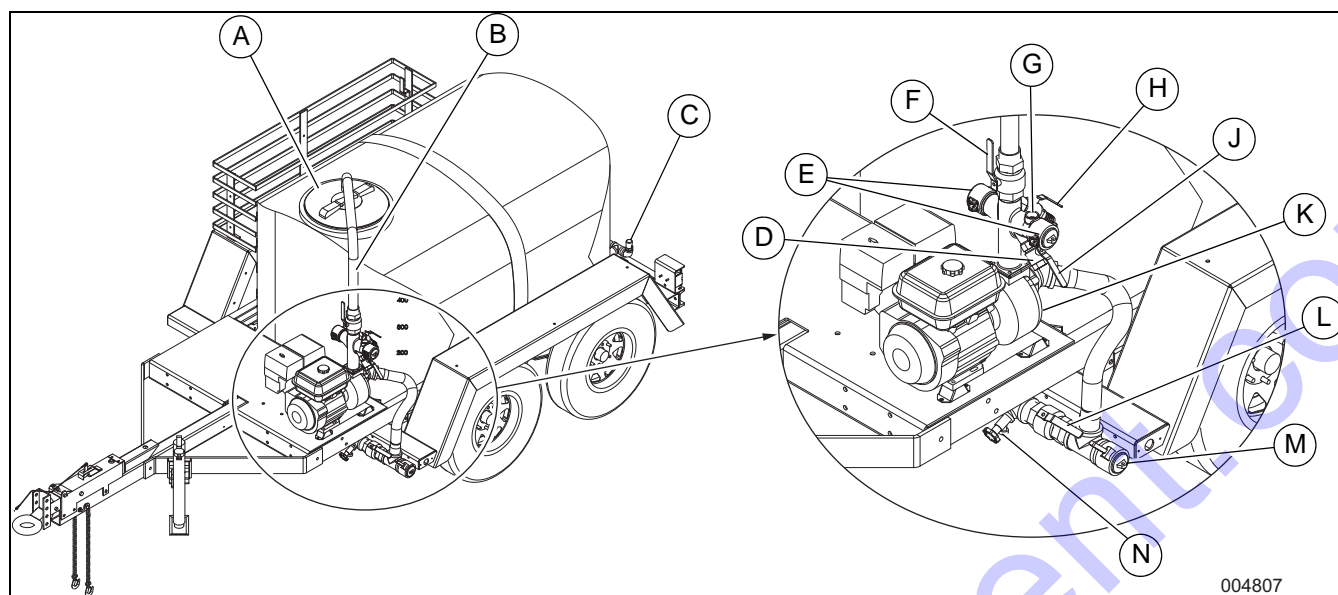


Figure 2-3. Components for Filling and Discharging Water Tank

Item	Description
A	Tank cover
B	Supply pipe
C	Rear spray bar
D	Fitting for 5/8 in. flexible hose
E	Upper manifold—two locations, fitted with end-plugs and cam-locks
F	Valve 1
G	Access hole—fitted with plug
H	Valve 2
J	Valve 3
K	Pump housing drain—fitted with plug
L	Valve 4
M	Lower manifold—fitted with end-plug and cam-lock
N	Gravity drain bibb

Section 3: Operation



WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

Preparing Unit for Use

Unit ships from factory with hoses and accessories inside tank. Remove hoses and accessories from tank before using equipment. Make sure all items are secured in the storage bin before moving or towing.

See **Figure 2-2**. Prepare unit for use as follows.

1. Verify unit is on a level surface and wheels are blocked.
2. Loosen both side pivot bolts.
3. Secure tongue to base of tank fill pipe with a rope or chain.
4. Loosen center pivot bolt and remove tongue brace and hardware from trailer frame.
5. Carefully lower tongue.
6. Install tongue hardware to indicated holes.

NOTE: Do not reuse nylock nuts.

7. Tighten tongue hardware and pivot bolts to 80-109 ft-lbs (108-148 Nm).

Using Valves and Cam Locks

See **Figure 3-1**. Valves have two positions: *opened*, which allows water to flow through the valve; and *closed*, which stops water flow at the valve.

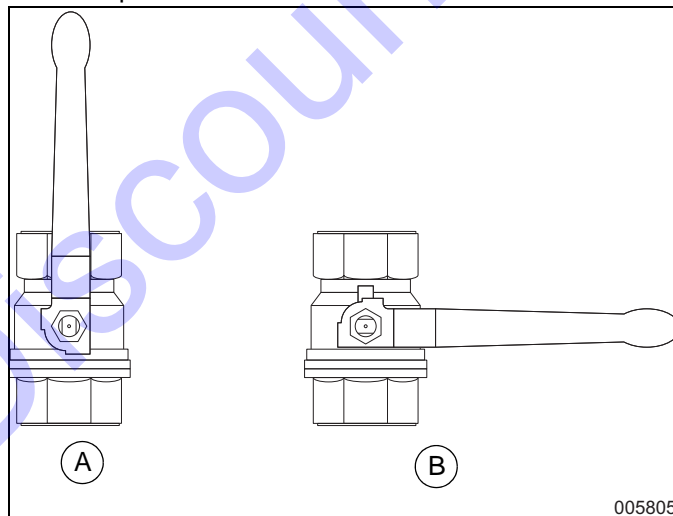


Figure 3-1. Opened Valve (A) and Closed Valve (B)

See **Figure 3-2**. All cam locks have two positions: Opened and closed.

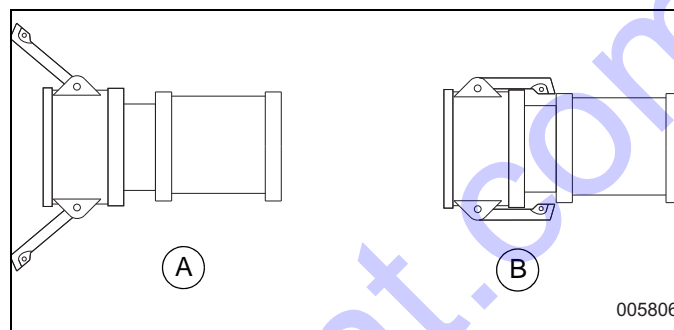


Figure 3-2. Opened Cam Lock (A) and Closed (Secured) Cam Lock (B)

Filling Water Tank

Fill water tank only with polyethylene-compatible fluids. Filling tank with incompatible chemicals will result in tank leaking or failure.

The tank is NOT fire resistant. Do not expose tank to open flame or excessive heat.

Protect tank from sharp impacts, especially in cold temperatures.

Hydrant as Fill Source

1. See **Figure 2-3**. Remove tank cover. Open valve 1. Close valves 2, 3, and 4. Close gravity drain bibb.
2. Attach hydrant adapter to hydrant. Attach threaded end of 2 in. rigid fill-hose to hydrant adapter.
3. On the upper manifold, open one cam-lock fitting and remove the end-plug. Attach cam-lock end of 2 in. rigid fill-hose to the manifold, then close cam-lock fitting. Eliminate bends and kinks in hose.
4. Slowly open hydrant valve. The tank begins to fill through the supply pipe.
5. Fill tank to desired level, then close hydrant valve, then close valve 1.
6. Remove 2 in. rigid fill-hose from hydrant and allow hose to drain. Remove hydrant adapter. Remove hose from upper manifold cam-lock fitting. Place hose and hydrant adapter in storage bin.
7. Close upper manifold end-plug. Secure cam-lock fitting on end-plug. Close tank cover.

Reservoir as Fill Source

1. See [Figure 2-3](#). Remove tank cover. Open valve 1. Close valves 2, 3, and 4. Close gravity drain bibb.
2. On the lower manifold, open the cam-lock fitting and remove the end-plug. Attach cam-lock end of 2 in. rigid fill-hose to the manifold.
3. Attach basket strainer to threaded end of 2 in. rigid fill-hose.
4. Place hose in water.
5. Prime the pump:
 - a. Remove plug of access hole.
 - b. Pour water into access hole, filling the pump housing.
 - c. Start the engine.

The tank begins to fill through the supply pipe.
6. Fill tank to desired level, then shut off engine.
7. Close valve 1. Remove 2 in. rigid fill-hose from lower manifold and allow hose to drain. Place hose in storage bin.
8. Close lower manifold end-plug. Secure cam-lock fitting on end-plug. Close tank cover.

Discharging Water from Tank



⚠ DANGER

Personal Injury. Do not reach into pump housing with engine running. Doing so will result in death or serious injury.

(000385)

⚠ DANGER

Not for human consumption. Water in tank is not potable. Using tank water for human consumption will result in death or serious injury.

(000361)



⚠ WARNING

Personal injury. Risk of fluid injection. Do not aim spray gun at people, animals, electrical devices, or fragile items. Keep out of reach of children. Failure to do so may cause death or serious injury. (000117b)

⚠ WARNING

Equipment damage. Do not allow pump to run dry. Doing so will cause the pump to overheat and could cause equipment damage.

(000380)

⚠ WARNING

Equipment damage. Running pump with closed valves will cause pump to overheat and could result in equipment damage.

(000381)

⚠ WARNING

Personal injury and equipment damage. Do not drive over pressurized hoses. Doing so could cause hose rupture and result in personal injury and equipment damage.

(000382)

Using Rear Spray Bar

1. Position trailer for proper use of rear spray nozzles.
2. See [Figure 2-3](#). Open valve 4. Close valves 1, 2, and 3. Close gravity drain bibb.
3. Start engine.
4. Open valve 2. Water begins discharging through nozzles of rear spray bar.

NOTE: The spray pattern is adjustable. See [Adjusting Rear Spray Bar](#).

5. When tank is empty, shut off engine and close valves 2 and 4.

Using 2-Inch Flexible Spray Hose

1. See [Figure 2-3](#). Close valves 1, 2, 3, and 4. Close gravity drain bibb.
2. Remove one upper manifold end-plug. Attach cam-lock fitting of 2 in. flexible spray hose to manifold and secure the cam-lock fitting. Eliminate bends and kinks in hose. Close nozzle of hose.
3. Open valve 4.
4. Start engine.
The hose pressurizes and is ready for use.

NOTE: Twist hose to turn on and off, and to adjust spray pattern.

5. When tank is empty, shut off engine. Remove hose from upper manifold and allow hose to drain. Return hose to storage bin.
6. Secure end-plug to upper manifold (B) and secure cam-lock fitting.
7. Close valve 4.

Using 5/8-Inch Flexible Spray Hose

1. See [Figure 2-3](#). Close valves 1, 2, 3, and 4. Close the gravity drain bibb.
2. Remove one upper manifold end-plug. Attach 5/8 in. flexible spray hose to fitting of upper manifold. Eliminate bends and kinks in hose.
3. Open valve 4.
4. Start engine.
5. Open valve 3. The hose pressurizes and is ready for use.
6. After tank is empty, shut off engine. Remove hose from upper manifold and allow hose to drain. Return hose to storage bin.
7. Close valves 3 and 4.

Using Gravity Drain Bibb

1. See [Figure 2-3](#). Close valves 1, 2, 3, and 4.
2. Attach 5/8 in. flexible spray hose to gravity drain bibb (H). Eliminate bends and kinks in hose.
3. Open gravity drain bibb. Water begins discharging through spray hose.
4. After tank is empty, close gravity drain bibb. Remove hose from gravity drain bibb and allow hose to drain. Return hose to storage bin.

Adjusting Rear Spray Bar

⚠ WARNING

Personal Injury. Do not adjust spray nozzles, valves, or hoses when pump engine is running. Doing so could result in death or serious injury.

(000383)

See [Figure 3-3](#). The rear spray bar discharges water in a fan-shaped pattern. The pattern can be adjusted by twisting one or both spray nozzles.

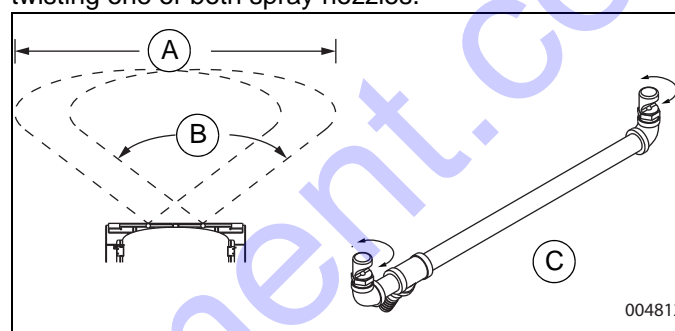


Figure 3-3. Rear Spray Bar

Item	Description
A	Total spray width, as shipped from factory: approximately 32 ft (9.75 m)
B	Spray angle of each nozzle, as shipped from factory: 120°
C	Nozzles (two): Twist one or both to adjust spray angle and total spray width

Draining Water from System

The tank, pump housing, and hoses must be completely drained under either of the following conditions.

- Ambient temperature is expected to drop below 32°F (0°C).
- Unit is being put in storage for long period of time.

Drain the tank, pump housing, and hoses as follows.

1. Using the trailer jack, lower the front of the trailer as much as possible.
2. See [Figure 2-3](#). Open gravity drain bibb. Open valve 4. Allow water to completely drain from tank and lower manifold.
3. Close valve 4.
4. Using the trailer jack, raise the front of the trailer until the engine is at a slight angle.
5. Remove pump housing drain plug. Allow water to completely drain from pump housing.
6. Close pump housing drain plug.
7. Close valves 1, 2, 3, and 4. Remove one upper manifold end-plug. Remove plug of access hole.
8. Using an air compressor, blow air into pump housing. Water remaining in outlet-side of pump and hose discharges through manifold.
9. Secure end-cap to upper manifold.
10. Open valve 2.
11. Using an air compressor, blow air into pump housing. Water remaining in supply hose to rear spray-bar discharges through rear spray nozzles.
12. Leave gravity drain bibb open to allow residual water to drain from tank.

Section 4: Maintenance

CAUTION

Equipment Damage. Failure to perform a daily inspection could result in damage to the unit.

(000306)

WARNING

Personal Injury. Do not perform maintenance procedures while pump is running. Doing so could result in death or serious injury.

(000384)

Keep unit free of mud, oil, and chemicals. Do not spray water on engine or surge brake coupler. Immediately replace decals that are missing or hard to read.

For maintenance assistance, contact a GMP ASD or Generac Mobile Products Technical Service at 1-800-926-9768 or www.generacmobileproducts.com.

NOTE: This water trailer is designed for specific applications. Do not modify or use this unit for any application other than which it was designed for.

Basic Schedule

Item	Daily	3 Months / 1000 Miles
Check engine oil level in engine	X	
Check hoses, valves, and couplings for leaks or bulges	X	
Check brake fluid level in surge brake coupler or battery connections on electric-brake models	X	
Check trailer tires for inflation, wear	X	
Check trailer lights and wiring	X	
Ensure hoses and accessories are accounted for and securely fastened to storage bin	X	
Check lug nuts on trailer wheels for tightness	X	
Check hardware, tighten, or loose or missing components	X	
Grease trailer axle bearings		X

Engine and Water Pump

For engine or water pump maintenance schedules and procedures, consult the appropriate OEM manual.

Long-Term Storage

If the unit will be stored for an extended period of time, certain precautions must be taken to ensure reliable start up in the future.

Consult the pump instruction manual and engine owner's manual for long term storage procedures.

Jack

See **Figure 4-1**. Perform maintenance on the jacks at least once per year, as described.

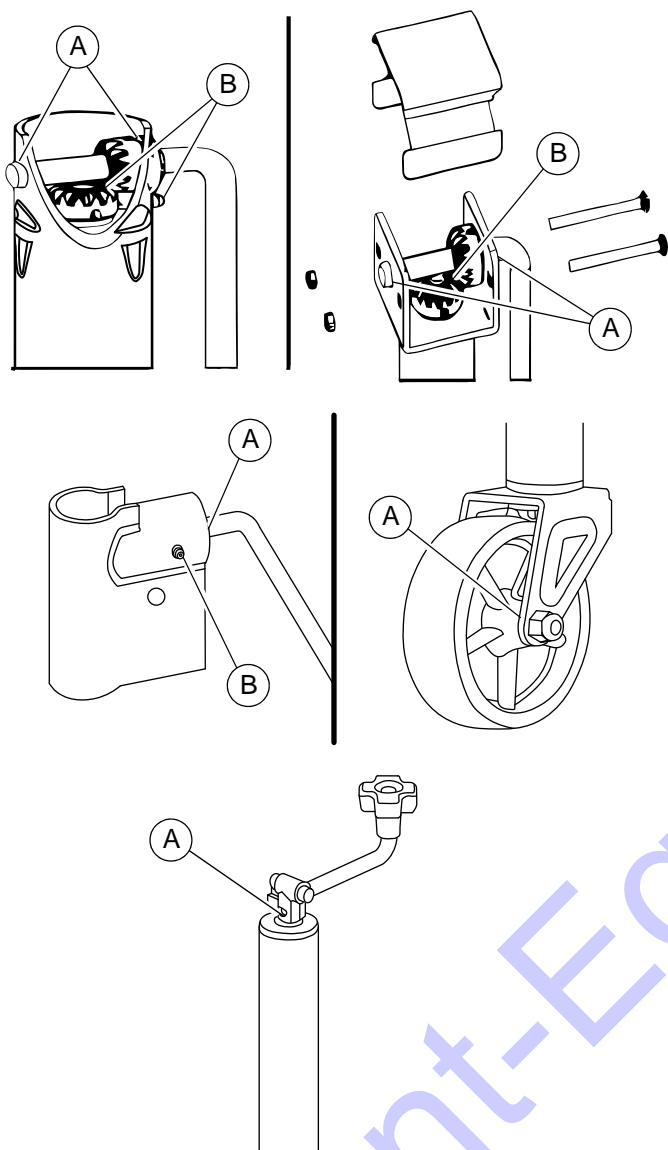


Figure 4-1. Grease and Oil Points

Item	Description
A	Oil point
B	Grease point

Side-Wind Models

Lubricate internal gears and bushings: Apply a small amount of automotive grease to internal gears by removing the jack cover, or, if equipped, use a needle-nose applicator or standard grease gun on the lubrication point found on the side of the jack near the crank. Rotate jack handle to distribute grease evenly. A lightweight oil must be applied to handle unit at both sides of the tube. If

equipped, the axle bolt and nut assembly of the caster wheel must also be lubricated with the same light weight oil.

Top-Wind Models

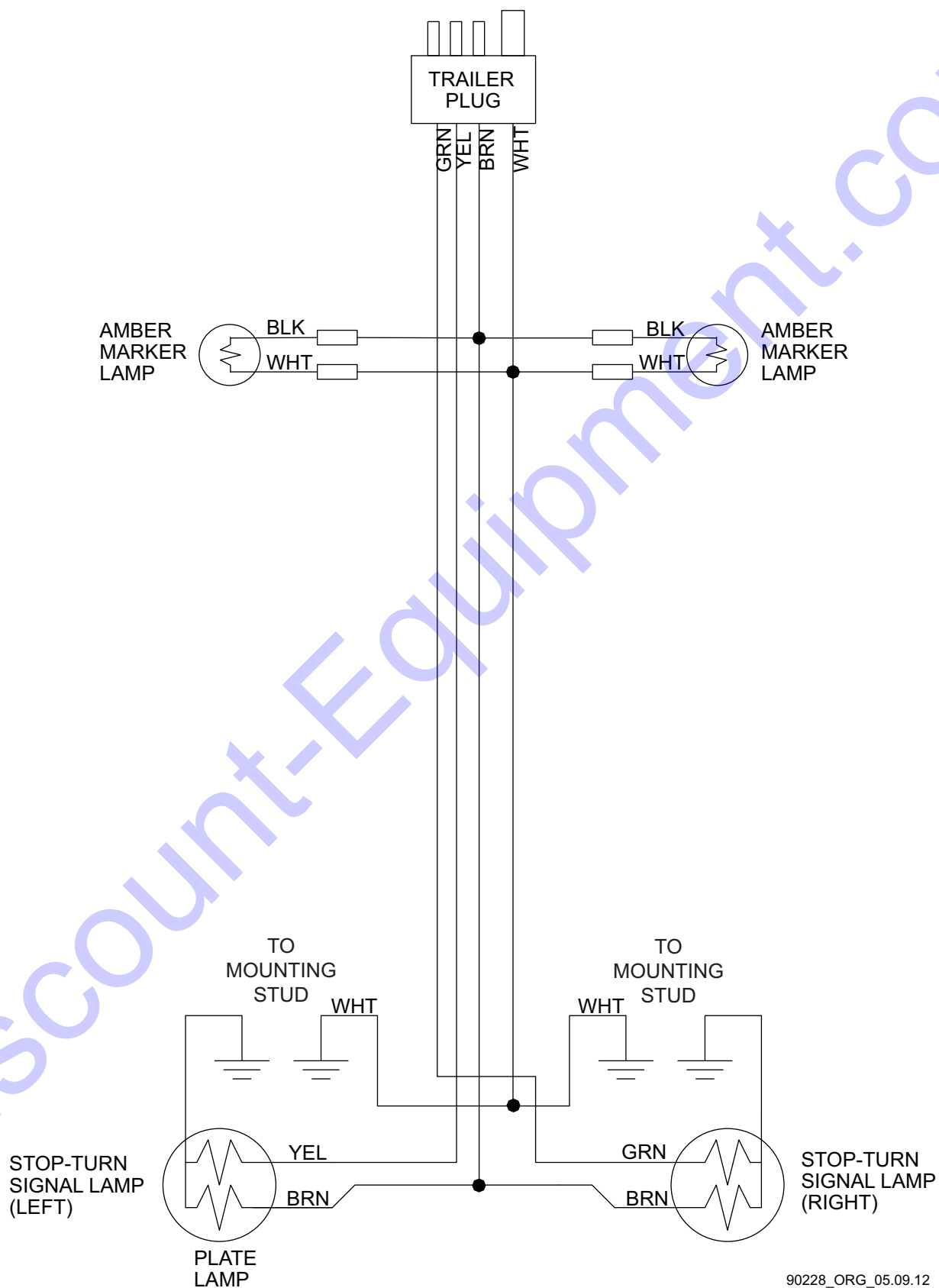
Apply a lightweight oil to screw stem.

Section 5: Troubleshooting

Problem	Possible Cause	Solution
Engine does not start, or it starts but runs roughly	<ol style="list-style-type: none"> 1. Dirty air filter. 2. No fuel. 3. Stale fuel. 4. Spark plug wire not connected to plug. 5. Bad spark plug. 6. Water in fuel. 7. Excessively rich fuel mixture. 8. Impeller obstructed. 9. Dirty fuel filter. 	<ol style="list-style-type: none"> 1. Clean or replace air filter. 2. Add fuel. 3. Replace with fresh fuel. 4. Connect wire to spark plug. 5. Replace spark plug. 6. Drain fuel tank; add fresh fuel. 7. Contact GMP ASD. 8. Clean impeller. 9. Replace fuel filter.
Pump not operating	<ol style="list-style-type: none"> 1. Air leak in suction hose. 2. Suction and/or discharge hoses blocked. 3. End of suction hose not submerged. 4. Total head exceeds pump capacity. 	<ol style="list-style-type: none"> 1. Check suction hose and connections for leaks. Tighten or repair. 2. Check hoses and strainer. Clear obstructions. 3. Increase suction hose length or move pump closer to water. 4. Reduce total head or choose a different pump for the task.
Weak discharge flow	<ol style="list-style-type: none"> 1. Air leak (intake) at suction side. 2. Reduced engine power output. 3. Damaged mechanical seal.* 4. Suction lift too high. 5. Suction hose too long or hose diameter too small. 6. Leaking discharge hose or connection. 7. Impeller obstructed. 8. Worn impeller.** 	<ol style="list-style-type: none"> 1. Check suction hose and connections for leaks. Tighten or repair. 2. Contact authorized servicing dealer. 3. Replace mechanical seal. 4. Lower suction lift. 5. Shorten suction hose, or increase hose diameter. 6. Check discharge hose and connection for leaks. Tighten or repair. 7. Clean impeller. 8. impeller.
Pump does not prime water, or priming takes a long time	<ol style="list-style-type: none"> 1. Air leak (intake) at suction side. 2. Insufficient priming water inside pump casing. 3. Water drain plug is loose. 4. Engine malfunction. 5. Damaged mechanical seal. 6. Incorrectly sized suction hose. 7. Suction hose is too long. 8. Excessive suction lift. *** 	<ol style="list-style-type: none"> 1. Check suction hose and connections for leaks. Tighten or repair. 2. Add priming water. 3. Tighten water drain plug. 4. Contact authorized servicing dealer. 5. Replace mechanical seal. 6. Use correct suction hose. 7. Move pump closer to water.
Oil leak at muffler or air cleaner	<ol style="list-style-type: none"> 1. Check oil level for over-fill. 2. Engine failure. 	<ol style="list-style-type: none"> 1. Adjust oil level. 2. Repair or replace.
Water leak between engine and pump	<ol style="list-style-type: none"> 1. Damaged mechanical seal. 	<ol style="list-style-type: none"> 1. Replace mechanical seal.
<p>* Mechanical seal damage may be caused by normal wear, overheating, or pumping incompatible fluids.</p> <p>** Excessive impeller wear is primarily due to cavitation. Causes include restricted suction and excessive suction lift.</p> <p>*** Total suction head should not exceed 26 ft (8 m).</p>		

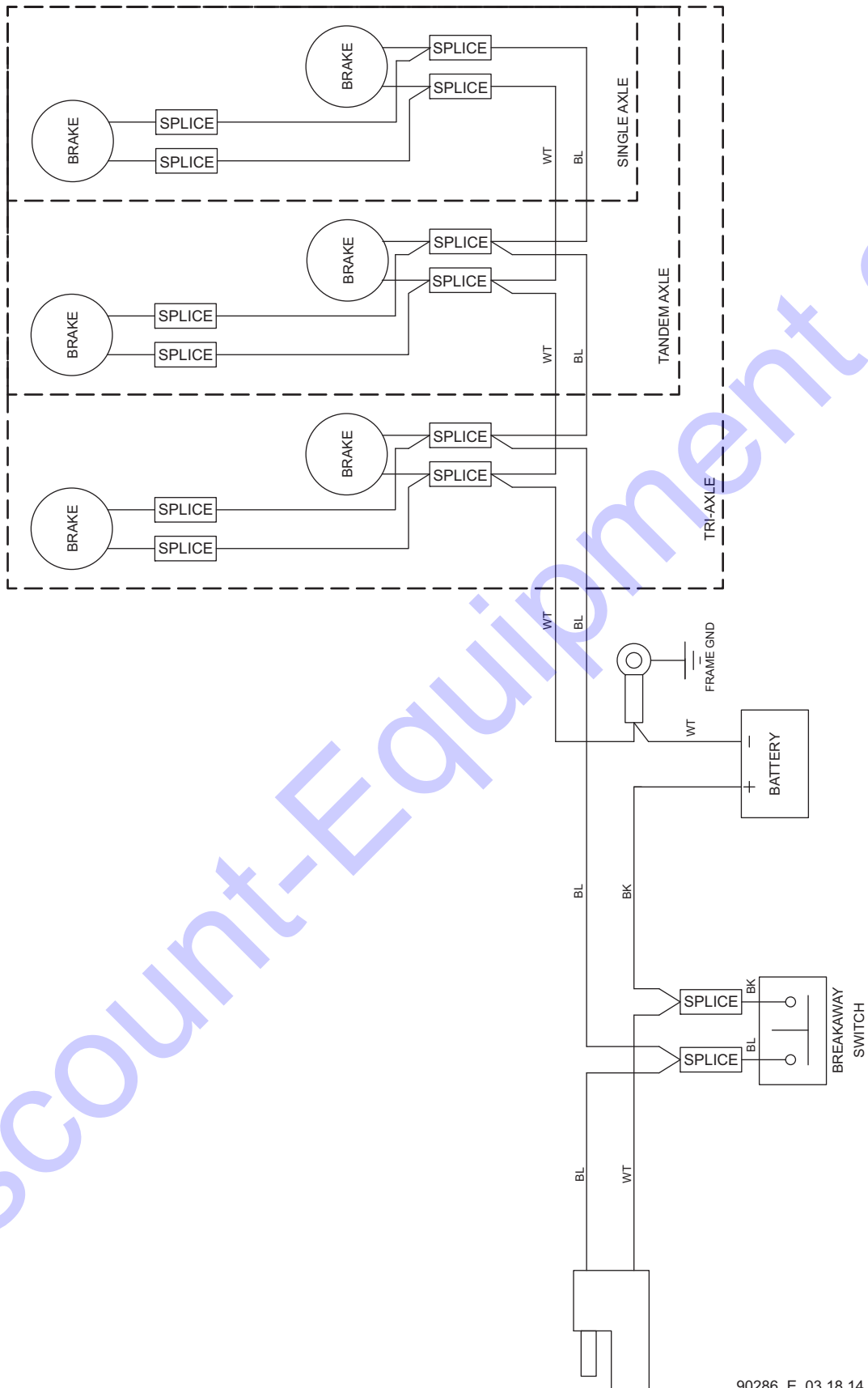
Section 6: Wiring Diagrams

Trailer



90228_ORG_05.09.12

Wiring Harness—Electric Brake Option



COOLANT MIXTURE (IF APPLICABLE: BRAND:

ment.com

[illegible]



www.discount-equipment.com

Part No. 40859 Rev. N 11/082017

©2017 Generac Mobile Products, LLC

All rights reserved.

Specifications are subject to change without notice.

No reproduction allowed in any form without prior written consent
from Generac Mobile Products, LLC.

GENERAC
**MOBILE
PRODUCTS**