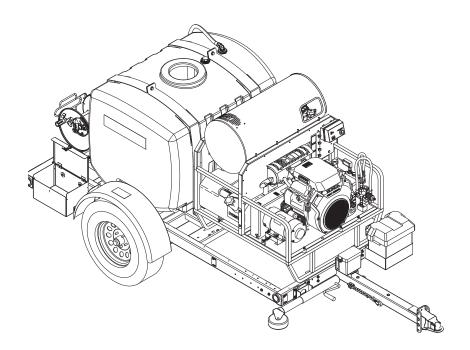


TRAILER 3500E HDS 4.7/35 TRAILER 3500H HDS 4.7/35 **Operator Manual**

English

02















9.808-363.0-F 06/21/24

	Model:	
	Date of Purchase:	
	Serial Number:	
	Dealer:	
	Address:	
	Phone Number:	
	Sales Representative:	
-		

MODELS: 1.103-850.0 Trailer Karcher 3500E HDS 4.7/35 1.103-851.0 Trailer Karcher 3500H HDS 4.7/35

Introduction

Thank you for purchasing this Pressure Washer. We reserve the right to make changes at any time without incurring any obligation.

Owner/User Responsibility:

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this pressure washer. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents. Owner and/or user must study and maintain for future reference the manufacturers' instructions.

Save These Instructions

This manual should be considered a permanent part of the machine and should remain with it if machine is resold. When ordering parts, please specify model and serial number. Use only identical replacement parts. This machine is to be used only by trained operators.

Notice

This trailer is equipped to meet applicable U.S. Federal safety standards. Check local and state requirements regarding brakes and any additional equipment that may be required. Any modifications or additions including load-equalizing hitches, without written factory consent: usage in an abnormal manner including overloading voids all manufacturers' warranties and liability.

WARNING: This Owner's Manual contains safety information and instructions for your trailer. You must read this manual before loading or towing your trailer. You must follow all safety precautions and instructions.

AVERTISSEMENT: Ce manuel de l'utilisateur contient des informations en matière de sécurité et des instructions pour la remorque. Lire le présent manuel avant de charger ou de remorquer la remorque. Suivre toutes les précautions de sécurité et les directives.

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How To Use This Manual

This manual contains the following sections:

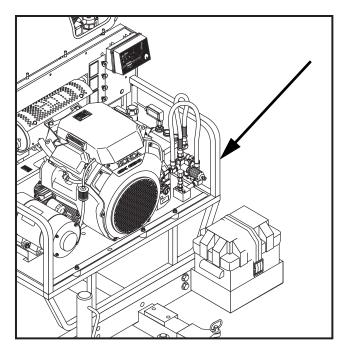
- How to Use This Manual
- Safety
- What and How to Check
- Maintenance

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

Model:
Date of Purchase:
Serial Number:
Dealer:
Address:
Phone Number:
Sales Representative:

The model and serial number of your machine is located on the right side of the machine, facing the hitch.



The SAFETY section contains important information regarding hazardous or unsafe practices of the machine. Levels of hazards are identified that could result in product damage, personal injury, or severe injury resulting in death.

The WHAT AND HOW TO CHECK section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Troubleshooting
- Preventative Maintenance

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

NOTE: The manual part number is located on the lower right corner of the front cover.

Important Safety Information



WARNING: To reduce the risk of injury, read operating instructions carefully before using.

AVERTISSEMENT: Pour réduire le risque de blessures, lire attentivement les instructions de fonctionnement avant l'utilisation.

1.Read the owner's manual thoroughly. Failure to follow instructions could cause malfunction of the machine and result in death, serious bodily injury and/or property damage.

- 2. Know how to stop the machine and bleed pressure quickly. Be thoroughly familiar with the controls.
- 3. Stay alert watch what you are doing.



DANGER: Keep wand, hose, and water spray away from electric wiring or fatal electric shock may result.

DANGER: Garder la lance, le boyau et le jet d'eau à l'écart de tout câblage électrique ou des chocs électriques mortels pourraient survenir

WARNING: Flammable liquids can create fumes which can ignite, causing property damage or severe injury.

AVERTISSEMENT:Des liquides inflammables peuvent produire des vapeurs qui peuvent s'enflammer, causant ainsi des dommages à la propriété ou des blessures graves.



WARNING: Risk of explosion — Operate only where open flame or torch is permitted.

AVERTISSEMENT: Risque d'explosion — Utiliser uniquement dans des endroits où l'utilisation d'une flamme nue ou d'une torche est permise.

- 4. Follow engine fuel recommendation in the engine manual provided.
- 5. Use only kerosene, No. 1 home heating fuel, or diesel for the hot water burner. If diesel is used, add a soot remover to every tankful.

WARNING: Gasoline is highly flammable and explosive. You can be seriously injured when refueling.

AVERTISSEMENT: L'essence est très inflammable et explosive. Le ravitaillement en carburant peut présenter des risques de blessures graves.

- Stop engine and keep heat sparks and flame away.
- · Refuel only outdoors.
- Wipe up spills immediately.



WARNING: Risk of fire — Do not add fuel when the product is operating or still hot.

AVERTISSEMENT: Risque d'incendie — Ne pas ajouter de carburant pendant que la machine fonctionner ou est encore chaude.

WARNING: Do not use gasoline crankcase draining or oil

containing gasoline, solvents or alcohol. Doing so will result in fire and/or explosion.

AVERTISSEMENT: Ne pas utiliser d'essence, de drainage du carter de moteur ou d'essence contenant de l'huile, de solvants ou de l'alcool. Agir de la sorte risquerait de créer un incendie et/ou une explosion.

- 6. Operate only in locations where combustible dusts and flammable gases or vapors are not present. Do not store or use gasoline near this machine.
- 7. Do not allow acids, caustic or abrasive fluids to pass through the pump.
- 8. Never run pump dry or leave spray gun closed longer than 1-2 minutes.
- 9. Keep operating area clear of all persons.



WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds. To avoid personal injury, eye, hand and foot safety devices must be worn.

AVERTISSEMENT: Un jet haute pression peut écailler la peinture ou provoquer l'émission d'autres particules dans l'air et leur

projection à hautes vitesses. Pour éviter les blessures corporelles, il faut porter des dispositifs de sécurité pour les yeux, les mains et les pieds.

 Always wear properly rated eye protection such as safety goggles or face shield while spraying.
 Safety glasses do not provide full protection.



WARNING: This machine exceeds 85 dB. Appropriate ear protection must be worn.

AVERTISSEMENT: Cette machine excède 85 dB et une protection de l'ouïe appropriée doit être portée.



WARNING: Hot discharge fluid. Do not touch or direct discharge stream at persons or animals.

AVERTISSEMENT: Liquide de décharge chaud. Ne pas diriger le débit de décharge vers des personnes ou des animaux.

WARNING: This machine produces hot water and must have insulated components

attached to protect the operator.

AVERTISSEMENT: Cette machine produit de l'eau chaude et doit comporter des composants isolés attachés pour protégerl'opérateur.



WARNING: Risk of injury. Hot surfaces can cause burns. Use only designated gripping areas of spray gun and wand. Do not place hands or feet on non-insulated areas of the pressure washer.

AVERTISSEMENT: Les surfaces chaudes peuvent causer des brûlures. Utiliser uniquement les zones de prise désignées du

pistolet pulvérisateur et de la lance. Ne pas placer les mains ou les pieds sur des endroits non isolés de la laveuse à pression.

 To reduce the risk of injury, close supervision is necessary when a machine is used near children.
 Do not allow children to operate the pressure washer. This machine must be attended during operation.



WARNING: Grip cleaning wand securely with both hands before starting. Failure to do this could result in injury from a whipping wand.

AVERTISSEMENT: Agripper la lance de nettoyage avec les deux mains avant de commencer. Le non-respect de cette consigne pourrait mener à des blessures causées par le mouvement

violent de la lance.

- 12. Never make adjustments on machine while in operation.
- 13. Be certain all quick coupler fittings are secured before using pressure washer.



WARNING: High pressure developed by these machines will cause personal injury or equipment damage. Keep clear of nozzle. Use caution when operating. Do not direct discharge stream at people or animals, or severe injury or death will result.

AVERTISSEMENT: La haute pression générée par ces

machines causera des lésions corporelles ou des dommages à l'équipement. Se tenir à l'écart de la buse. Ne pas décharger directement le jet vers des personnes ou des animaux, car cela risquerait de causer des blessures graves ou même la mort.



WARNING: Protect machine from freezing.

AVERTISSEMENT: Protéger la machine contre le gel.

- 14. To keep machine in best operating conditions, it is important you protect machine from freezing. Failure to protect machine from freezing could cause malfunction of the machine and result in death, serious bodily injury, and/or property damage. Follow storage instructions specified in this manual.
- 15. Inlet water must be clean fresh water and no hotter then 90°F.



WARNING: Risk of asphyxiation. Use this product only in a well ventilated area.

AVERTISSEMENT: Risque d'asphyxie : Utiliser ce produit uniquement dans un endroit bien ventilé.

16.Avoid operating machines in small areas or near exhaust fans. Adequate oxygen is needed for

combustion or dangerous carbon monoxide will result.

- Manufacturer will not be liable for any changes made to our standard machines or any components not purchased from us.
- 18. The best insurance against an accident is precaution and knowledge of the machine.



WARNING: Be extremely careful when using a ladder, scaffolding or any other relatively unstable location. The cleaning area should have adequate slopes and drainage to reduce the possibility of a fall due to slippery surfaces.

AVERTISSEMENT: Faire preuve d'une extrême prudence au moment d'utiliser une échelle,

des échafaudages ou toute autre surface relativement instable. La zone de nettoyage doit avoir une pente et un drainage adéquats pour réduire la possibilité d'une chute due à une surface glissante.

Safety

- Do not overreach or stand on unstable support. Keep good footing and balance at all times.
- 20. Do not operate this machine when fatigued or under the influence of alcohol, prescription medications, or drugs.
- 21. Before disconnecting discharge hose from water outlet, turn burner off and open spray gun to allow water to cool below 100° before stopping the machine. Then open the spray gun to relieve pressure. Failure to properly cool down or maintain the heating coil may result in a steam explosion.



Follow the maintenance instructions specified in the manual

Reporting Safety Defects

If you believe that your vehicle 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 the trailer manufacturer.

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 individual problems between you, your local dealer.

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

NHTSA, U.S. Department of Transportation, 1200 New Jersey Avenue SE, Washington, DC 20590.

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

Checklist - Before Your First Trip

- Tire Pressure and Tire Condition
- Wheel Lugs*
- · Bearing Lube and Tightness
- Burnish Brakes
- Brakes/Brake Controllers
- · Breakaway Battery Charge
- Hitch
- · Safety Chains
- 12V Running Lights
- · Distribution and Security
- All Jacks "Up" in Travel Position
- * Check lug nuts for tightness before initial trip, at 10 miles, 25 miles and 50 miles. Recheck every 3 months or 3000 miles.

Your local Dealer, in all probability, checked each of these points before you took delivery. However, these are key things you should recheck before taking your trailer on the road for the first time.

Referencing the Utility Trailer in this Manual

All references to the trailer or component parts to either left or right are made with the assumption that you are standing behind the trailer facing forward. Your left hand or right hand is the equivalent on the trailer.

Tire Safety

The most common cause of trailer tire failure is underinflation. Therefore, it is important that you always maintain the specified air pressure as indicated by the tire manufacturer on the tire's side-walls. This information can also be found on the tire label or the air pressure molded on the tire side-wall.

The most important things you can do to maintaining proper tire pressure are observe all tire and trailer maximum carrying capacities, avoid road hazards, and inspect the tires for cuts, slashes and other irregularities. These practices, along with other care and maintenance, can improve handling, help protect you and others from avoidable breakdowns and accidents, improve fuel economy, and increase the life of your tires.

Make tire safety a regular part of your trailer maintenance routine. The time you spend is minimal compared to the amount of time, inconvenience, and potential safety hazards that can occur from a flat tire or failure.

Basic Tire Maintenance

Properly maintained tires improve the load-carrying capability of your trailer. You can help avoid flat tires and tire failures by maintaining proper tire pressure, observing tire and trailer capacity limits, avoiding road hazards, and inspecting your tires regularly.

Identifying Your Recommended Tire Pressure and Maximum Load Carrying Capacity for Your Trailer

Both the tire placard and the VIN label are permanently attached on top of the frame of your trailer and have the required information printed on them. They also list the maximum load that can be placed on the trailer without exceeding the load limits of the tires or the trailers other components. These labels indicate the manufacturer's information including:

- · Recommended tire size.
- · Recommended tire inflation pressure.
- The maximum weight the trailer is designed to carry.
- · Gross vehicle weight rating of the trailer.
- · Gross axle weight rating of the trailer.

Understanding Tire Pressure and Load Limits

Tire inflation pressure is the level of air in the tire that provides it with the load-carrying capacity and affects the overall performance of the trailer. The tire inflation pressure is a number that indicates the amount of air pressure that is inside the tire. It is measured in pounds per square inch (PSI). The tire must be inflated to the air pressure as designated on the labels. Also listed on the labels is the air pressure in kilo Pascals (kPa), which is a metric measurement. Tire manufacturers determine the air pressure to maximize the amount of weight the tires can safely carry. The proper tire pressure for your trailer tires is referred to as the "recommended cold inflation pressure." It is difficult to obtain the recommended tire pressure if your tires are not cold when the reading is taken because the air will expand when it is warmed by towing down the road, thus increasing the air pressure inside. If air is added to a tire that is low the air pressure should never exceed the recommended pressure.

It is important to check your trailer's tire pressure at least once a month for the following reasons:

Most tires will naturally lose air over time.

Tires can lose air suddenly if driven over an object that punctures or cuts the tire. Sometimes a sharp blow from a pothole or curb can knock the tire loose from the rim causing immediate deflation.

Maintaining Proper Tire Pressure

Locate the recommended tire pressure on the trailer's tire information placard or owner's manual.

Record the tire pressure of all tires. If the tire pressure is too high in any of the tires, slowly release air by gently pressing on the tire valve stem with the edge of your tire gauge until you get the correct pressure.

If the tire pressure is too low, note the difference between the measured tire pressure and the correct tire pressure. These "missing" pounds of pressure are what you will need to add.

Add the missing pounds of air pressure to each tire that is under inflated.

Check all tires to make sure they have the same air pressure.

If you have been towing your trailer and think that a tire is under inflated, fill it to the recommended cold inflation pressure indicated on your trailer's tire label placard or the VIN label. You can also check the sidewall of the tire for a correct tire inflation pressure. Your tire will have a slightly lower air pressure because the tire is warm when you are inflating it, but it will be much better than to continue to tow it with the under inflation it may have had. Once the trailer has been parked long enough to allow the tires to cool down, recheck the tire pressure and add additional air to return the tire pressure to the recommended level.

Important Trailer Safety Information

Tire Size

To maintain the trailer's carrying capacity and safety, purchase only the same size tires as what were originally supplied on the trailer.

Safety Tips

Slow down if you have to go over a pothole or other object in road.

Do not run over curbs and try not to strike the curb when parking.

For a free brochure visit:

www. nhtsa.dot.gov

FOR SAFETY: Before towing this trailer be sure to read the instructions and warnings supplied in this manual. Also read the information supplied with your tow vehicle so you know and understand it's limitations.

Never Tow the Trailer Before Checking:

- Coupler and latch assembly show no signs of wear or damage.
- Coupler hitch and hitch ball are of the same size
- Coupler and safety chains are safely secured to the hitch.
- Check all fasteners for proper tightness.
- Load is securely tied down to the trailer.
- Wheel lug nuts are properly tightened to the right torque.
- Wheel bearings are properly adjusted and maintained.
- Load is within the maximum load carrying capacity of trailer.
- Tires are properly inflated and are road worthy.
- All trailer lighting is working properly.
- Tire pressure and tire condition
- Wheel lugs*
- Bearing lube and tightness
- Hitch
- · Safety chains
- 12V running lights
- Distribution and security
- Caster up in travel position

NOTE: Checking all of the above steps before every trip is key for safety.

IMPORTANT: The load must be distributed equally on the bed of the trailer if possible. Heavy, concentrated loads may cause damage or possible failure of the trailer.

WARNING: Loads placed on the trailer must be securely tied to the trailer. Always use appropriate tie downs designed to restrict loads from moving when properly attached. Failure to do so will allow shifting of the load causing potential trailer failure and/or loss of the load and personal injury.

AVERTISSEMENT: Les charges placées sur la remorque doivent être solidement attachées à la remorque. Toujours utiliser des arrimages appropriés conçus pour empêcher les charges de bouger lorsqu'elles sont bien attachées. Le nonrespect de cette consigne permettra le mouvement de la charge, entraînant une défaillance potentielle de la remorque et/ou une perte de la charge et des lésions corporelles.

This trailer is equipped to meet all applicable federal safety standards in effect the day of manufacture. Check local and state requirements regarding any additional equipment that may be required.

The addition of optional equipment to your trailer may increase the total weight of your trailer package to where it now exceeds the maximum load carrying capacity of the trailer

Tow Vehicles

WARNING: Serious injury or property damage can result if the total weight of your loaded trailer exceeds the capacity of the hitch and/or your tow vehicle.

AVERTISSEMENT: Des blessures graves ou de dommages à la propriété peuvent survenir sir le poids total de la remorque chargée excède la capacité de l'attelage et/ou du véhicule remorqueur.

It is very important that you know and understand the towing capabilities of your tow vehicle. This is especially true with the braking abilities of the tow vehicle. You should check with your authorized dealer to see what the capabilities are for the total towing load and the maximum allowable tongue weight for the vehicle you plan on using for towing.

It is also important that the lighting system in the tow vehicle has sufficient capacity support the additional load the trailer lighting will add to the system.

A heavy duty flasher may be required to make your turn signals function properly.

^{*} Check lug nuts for tightness before initial trip, at 10 miles, 25 miles and 50 miles. Recheck every 3 months or 3000 miles.

Trailer Ball & Couplers

WARNING: Failure to properly engage the hitch ball in the coupler ball socket and securely lock the coupler latch mechanism can cause the trailer to become detached from the tow vehicle while traveling, which may cause serious injury or property damage.

AVERTISSEMENT: Le non-respect d'engager correctement la boule d'attache dans la cavité de la boule de l'attelage et de verrouiller solidement le mécanisme du loquet de l'attelage pourrait mener la remorque à se détacher du véhicule remorqueur pendant le déplacement, ce qui pourrait causer des blessures graves ou des dommages à la propriété

Ball diameter for which rating (GVWR) shall not exceed the gross trailer weight marked on the trailer coupler.

The hitch balls have the rated load they are capable of towing stamped Into the top of the ball.

Make sure the ball that you use to tow your trailer has the same capacity rating as the coupler.

Do not use a different size ball than the size the coupler is designed to use.

Class Coupler		Ball Diameter
II	3,500# GVWR	2"
III	5,000# GVWR	2"
IV	8,000# GVWR	2 5/16"

Before Towing

Check mounting bracket hardware for wear and proper tightness. Replace bent, broken, or worn hardware. Tighten hardware to 75-94 ft. lbs. Use only the hardware provided with the Trailer. If replacement hardware is needed, order replacement kit 8.924-356.0.

Make sure that the trailer safety chains are properly connected to the towing vehicle and trailer according to SAE J684. See Safety Chain information in your manual.

Make sure that all trailer lighting is hooked up and working properly.

Warning: Failure to follow all installation instructions could result in coupler failure

AVERTISSEMENT: Le non-respect de toutes les directives d'installation pourrait entraîner une panne du coupleur.

Variable Height Bracket:

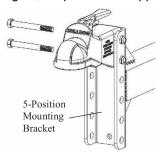
Coupler operation must not be impaired in any way. Do not use if coupler operation is impaired.

Bolting Instructions:

Align holes in coupler and mounting bracket.

NOTE: Coupler must be secured to mounting bracket using two sets of holes in the mounting bracket.

Insert two (2) 5/8"x4.5", grade 5 bolts through desired mounting bracket holes and coupler. For each bolt, Place one (1) washer at the bolt head side and another at the bolt thread side before assembling the nuts. Tighten lock nuts to 90-96 ft. lbs. After installation, ensure coupler operation is not impaired in any way. Do not use if coupler operation is impaired. The hardware provided with the trailer has a self-lubricating coating which is taken into account for the tightening torque above, and is lower than standard hardware and also is more consistent with re-torque specifications to first-torque than standard hardware. Order replacements with the 8.924-356.0 replacement kit, or consult your hardware vendor for applicable, higher, torques for the application.



Hitch Maintenance

Keep ball pocket and mechanism clean. The following procedures should be performed at least annually:

- Check set screw torque Grease ball pocket
- Oil pivot points with SAE 30 wt. motor oil

Inspect retaining pin and replace if necessary.

Hitch Operation

To Couple:

- 1. Block trailer wheels.
- 2. Align hitch ball beneath coupler.
- 3. Open coupler locking lever. While holding locking lever open, lower the coupler over the hitch ball until ball is fully seated into the ball pocket.
- 4. If locking lever is pinned open, remove pin. Move locking lever to the closed position. Check that the latch is engaged by lifting up on back of locking lever. Also, check that the hitch ball is fully seated and ball clamp is below the ball. If the ball is not seated with lever in the closed position and latch engaged, DO NOT TOW.

Repeat the above steps.

- OPTIONAL: Place a 5/16" pin or lock in hole shownTo Uncouple:
- 1. Block trailer wheels.
- Open locking lever. While holding locking lever fully open, raise trailer off of hitch ball.

NOTE: A 5/16" diameter pin can be used to hold the locking lever open.

Hitch Coupler Troubleshooting

If the coupler becomes damaged it must be repaired or replaced before towing. When the coupler is placed on the ball, the latch should close firmly. Keep the latch mechanism lightly oiled and clean. Items to check for are as follows:

- 1. Latch does not grasp ball securely:
- Check the ball size. Make sure the ball and coupler are the same size.
- 2. Latch does not snap into full latch position:
 - Check adjustment. Latch mechanism may be too tight.
 - Check to see that the coupler housing has not been damaged, keeping the ball hitch from fitting completely into the housing as designed.
- Keep the tongue blocked up when not in use so the coupler and mechanism are not in the ground being exposed to dirt and moisture.
- Apply a small amount of an automotive grease to the ball before hitching coupler to prevent wear of the two parts during towing.
- Make sure the latch safety pin is in position before towing.

Coupler & Ball Engagement

If the coupler and towing ball resist attempts to make engagement, do not force latch assembly. Instead, check the ball diameter to verify that it conforms to Society of Automotive Engineers (SAE) specifications. Standard two-inch diameter ball should be within the limits of 2.000-inches to 1.970-inches. Balls larger than 2.000-inches will not readily fit the coupler. A two-piece coupler ball is not recommended.

If the coupler becomes damaged it must be repaired or replaced before towing. When the coupler is placed on the ball, the latch should close firmly. Keep the latch mechanism lightly oiled and clean.

Improper engagement of the coupler and ball can cause damage if the vehicles separate in transit, thus, caution must be exercised to insure a secure hook-up. Lower the coupler onto the ball with the coupler latch in the vertical position. Continue to lower the trailer tongue until the jack clears the ground, then flip the coupler latch to its locked (horizontal) position. At this point visually observe that the ball is fully engaged in the ball hitch. An even better check to make sure the two are fully engaged is to raise the tongue of the trailer again using the jack. Raise until the ball hitch connection starts to raise the rear of the tow vehicle. If the connection was not properly made, the ball and socket will separate as the tongue of the trailer is raised.

Safety Chains

Listed in the chart below are the different class sizes of safety chains and the rated load each chain must be capable of withstanding. Your trailer is equipped with safety chains that meet the requirements of D.O.T Regulation 393.70.

Trailer Class	Trailer Weight GVWR in LBS	Minimum Braking Strength in LBS.
I	to 2,000	2,000
II	2,000 to 3,500	3,500
III	3,500 to 5,000	5,000
IV	5,000 to 7,000	7,600

WARNING: Failure to properly attach safety chains between the trailer and tow vehicle can result in a runaway trailer.

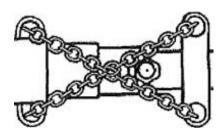
AVERTISSEMENT: Le non-respect de fixer correctement les chaînes de sécurité entre la remorque et le véhicule remorqueur peut mener à l'emballement de la remorque.

WARNING: To avoid accidents, before trailering:

- · Hitch only to ball size marked on coupling.
- Ball clamp must capture ball and lever or hand wheel is fully clamped.
- Cross safety chains under coupling.
- Allow only enough slack for turns.

AVERTISSEMENT: Pour éviter les accidents avant de procéder à un remorquage :

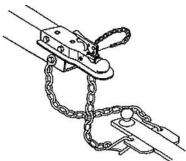
- Atteler uniquement à une boule dont la taille correspond à celle indiquée sur l'attelage.
- La boule de serrage doit capturer la boule et le levier ou le volant à main est complètement serré.
- Croiser les chaînes de sécurité sous l'attelage.
- Croiser les chaînes de sécurité sous l'attelage..



Bottom View

The safety chains on your trailer are an added insurance that it will not become detached from the tow vehicle. All safety chains are provided with an added clasp to keep them from becoming accidentally detached from the tow vehicle. Your trailer hitch on the tow vehicle should have two attaching holes or rings for attaching the safety chains, preferably one on each side of the ball hitch. Crisscross the chains under the tongue, the chain on the left side of the trailer tongue attached to the right side of the trailer tongue attached to the left side of the ball hitch.

This prevents the trailer tongue from dropping to the road should the coupler or ball hitch fail. The chains should be rigged as tight as possible with just enough slack to allow tight turns to be made. This can be accomplished by twisting the chain hook in a clockwise or counterclockwise direction thus twisting the link spacing and making the chain shorter. Also by keeping your chains as short as possible you prevent them from dragging on the road and wearing the chain links. If for any reason you find it necessary to replace a safety chain, use only original equipment.



Load-Carrying Capacity

Located on the front left-hand side of the frame, (either the inside or the outside) is the VIN (Vehicle Identification Number) tag. It will show the GVWR (Gross Vehicle Weight Rating) which is the maximum load that can be applied to the tires on the trailer. The GVWR and the carrying capacity of the trailer are based on the tire size installed on the trailer.

The GVWR is the maximum carrying capacity of the trailer with its respective tires. It may not necessarily equal the total GVWR of the trailer less the empty weight of the trailer because there may be another controlling factor such as frame strength that reduces the carrying capacity to what is listed on the VIN tag.

The tire label will list the tire size that was installed on the trailer as original equipment when it was sold to you, the consumer. It also lists the maximum carrying capacity of the trailer.

IMPORTANT: The total weight of the load must never exceed the weight of cargo listed on the tire label and/ or the maximum load carrying capacity listed on the VIN tag on your trailer. The GVWR (Gross Vehicle Weight Rating) listed is the maximum total weight of the trailer with accessories and all cargo allowable to be carried on the tires that are installed on the trailer.

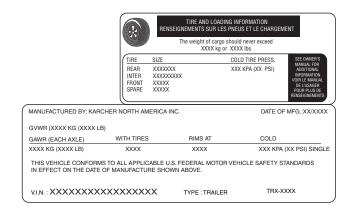
WARNING: Fishtailing caused from improper tongue weight on the tow vehicle hitch ball can cause loss of control of the tow vehicle and resulting serious injury or property damage.

AVERTISSEMENT: Une embardée causée par un poids de l'attelage inapproprié sur la boule d'attache du véhicule remorqueur peut causer une perte de contrôle du véhicule remorqueur et causer des blessures graves et des dommages à la propriété.

CAUTION: The maximum load applied to the trailer must never exceed the carrying capacity of the trailer as stated on the VIN label and/or the tire placard. Doing so may cause failure of one or more component parts of the trailer causing potential damage to the trailer and/ or a potential accident. All concentrated loads must be spread over as large an area as possible to eliminate potential damage to the decking.

ATTENTION: Risque de blessures causées par une buse mal verrouillée. Agir de la sorte risquerait de causer une défaillance d'une ou plusieurs composantes de la remorque, causant des dommages potentiels à la remorque et/ou un accident potentiel. Toutes les charges concentrées doivent être réparties sur une surface aussi large que possible pour éliminer tout dommage potentiel au patio.

Shown next is an example of the tire label that is placed on your trailer showing the items just discussed above. Once you have familiarized yourself with the information supplied on the example tire label and VIN tag, check the tire size and capacity of your trailer as shown on the VIN tag on your trailer.



Proper Weight Distribution & Tongue Weight

Ensuring that your trailer has the proper GVWR is very important. Once that has been established and you have the load on the trailer it is equally important that you have proper weight distribution.

Tongue Weight

The tongue weight on your trailer is 10%-15% of the total weight of the trailer and all the cargo that it is carrying. This is the amount of weight that is then transferred to the tow vehicle through the ball hitch.

Example: The total weight of the trailer with load is 2500 pounds. The tongue weight should not be less than 250 pounds (10%).

Too light of tongue weight can cause the trailer to "fishtail" (sway Weight Rating) as you travel down the highway. This creates excessive strains on the tow vehicle, hitch and on the trailer itself. It can very easily lead to an accident.

To adjust for too light of a tongue weight the load must be shifted for-ward with respect to the axle. This will increase the weight that is transferred to the tongue. Adjustments should be made until the tongue weight falls within 10% -15% recommended range. Likewise, if you have too much tongue weight adjust the weight backwards with respect to the axle until the tongue weight falls in the recommended range

Tow vehicles vary on how much tongue weight they can support for proper towing.

Tire Pressure

Proper air pressure for your tires is printed on the sidewall. Check pressure while tires are cold. Do not raise or lower pressure to meet load. Pressure other than recommended pressure will lead to excessive tire wear or tire failure. **Balancing recommended.**

Wheels

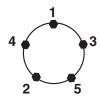
Check wheels for hole

elongation or "out of round". This condition can be caused by lug nuts not being tight or being too tight. Trailer wheels can be damaged by chuck holes or curb jumping. You may not be aware of the road shock to the wheels without periodic checks. Replace any wheel that is bent. Replace any wheel if you see elongation of the bolt holes.

Wheel Lugs

Wheel lug nuts must be tightened with a torque wrench. Refer to the chart below for proper torque.

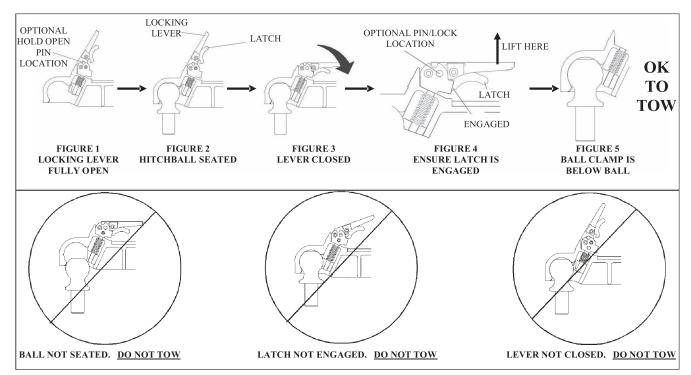
- Start all bolts or nuts by hand to prevent cross threading.
- 2. Tighten bolts or nuts following sequence at right.
- 3. The tightening of the fasteners should be done in stages. Following the recommended sequence, tighten fasteners per wheel torque chart below.



4. Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and re-torque after the first 10 miles, 25 miles and again at 50 miles. Check periodically thereafter.

Wheel Torque Requirements			
Whool Sizo	Torque Sequence		ice
Wheel Size	1st Stage	2nd Stage	3rd Stage
15"	20-25	50-60	80-90

Correct Ball Seating



Ball Coupler Hitches

Coupler assembly includes a latch lever and latch lever safety pin or hitch pin. Be sure the latch lever is locked and the pin properly secured before moving your trailer. The pin can be engaged fully only if ball is properly seated in the coupler.

Tires

Before mounting tires onto wheels make certain that the rim size and contour is approved for the tire as shown in the Tire and Rim Association Yearbook or the tire manufacturer's catalog. Also make sure the tire will carry the rated load. If the load is not equal on all tires due to trailer weight distribution, use the tire rated for the heaviest wheel position.

Note: The capacity rating molded into the sidewall of the tire is not always the proper rating for the tire if used in a trailer application. Use the following guideline:

- LT and ST tires: use the capacity rating molded into the tire.
- Passenger Car Tires: Use the capacity rating molded into the tire sidewall divided by 1.10.

Use tire mounting procedures as outlined by the Rubber Manufacturer's Association or the tire manufacturers.

NOTE: Tire wear should be checked frequently because once a wear pattern becomes firmly established in a tire it is difficult to stop, even if the underlying cause is corrected.

WEAR PATTERN		CAUSE	ACTION
	Center Wear	Over In ation	Adjust pressure to particular load per tire catalog.
	Edge Wear	Under In ation	Adjust pressure to particular load per tire catalog.
	Side Wear	Loss of camber or overloading	Make sure load doesn't exceed axle rating. Align at alignment shop.
	Toe Wear	Incorrect toe-in	Align at alignment shop.
	Cupping	Out of balance	Check bearing adjustment and balance tires.
	Flat Spots	Wheel lockup & tire skidding	Avoid sudden stops when possible and adjust brakes.

Breakaway Switch & D.O.T. Wet Cell Battery

After hitching to the tow vehicle, pull the safety pin on the breakaway switch. Check to see if system is operational. Push safety pin back in to its original position.

Check battery fluid level every 60-90 days. Remove cover. There are two fill caps. Refill with distilled water only.

Breakaway Switch Mounted on an A-Frame

Attach breakaway switch cable securely in a straight line to the tow vehicle. Locate attachments so little "slack" is left in the cable, but enough slack to allow for turning without disengaging the pin. The cable will activate brakes the instant a trailer becomes disengaged. Brake adjustment is critical to stopping a disengaged trailer.

Check Breakaway System & Brakes Before Each Trip

- 1. Disconnect 12V plug from tow vehicle.
- 2. Pull breakaway pin.
- 3. While pin is pulled, move tow vehicle forward. Brake should be on and wheels locked.

- 4. Replace pin and secure to tow vehicle. Do not loop over hitch ball.
- 5. Plug 12V connector into tow vehicle receptacle.
- 6. Test brakes with brake controller.

NOTE: When disconnecting trailer from tow vehicle, make sure to replace safety pin.

Brakes

Your trailer is equipped with electric brakes.

Complete service and repair information for the electric brakes is found in the Axle Break Service Manual that is furnished with your trailer,

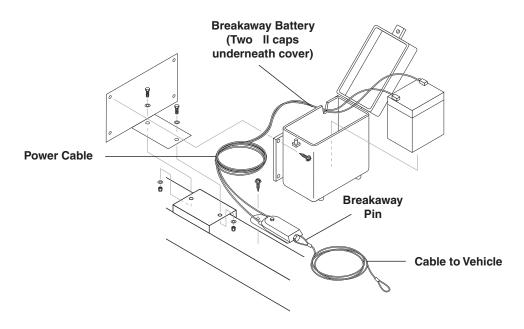
Note: It is important to strictly adhere to the axle break instructions for brake service and repair. In this way, you are protecting the validity of all applicable warranties.

Burnishing the Brakes

Brakes on a new trailer may tend to "grab" or pulsate. This is normal. To correct the situation, pull the trailer with the trailer brake control slightly engaged a short distance (about 1000 ft or until trailer does not grab or pull to one side anymore). This action smooths down the brake bands.

NOTE: Do not lock up the wheels

Breakaway Battery on A-Frame



Brake Adjustment

Brakes should be adjusted (1) after the first 200 miles of operation after the brake shoes and drums have "seated", (2) at 3000 mile intervals and (3) as use and performance require. The brakes should be adjusted in the following manner:

- Jack up trailer and secure on adequate capacity jack stands. Check that wheel and drum rotate freely.
- 2. Remove adjusting hole cover from adjusting slot on bottom of brake backing plate.
- With screwdriver or standard adjusting tool, rotate the starwheel of the adjuster assembly to expand the brake shoes. Adjust the brake shoes out until the pressure of the linings against the drum makes the wheel very difficult to turn.

NOTE: With drop spindle axles, a modified adjusting tool with about an 80 degree angle should be used.

- 4. Then rotate starwheel in opposite direction until wheel turns freely with slight lining drag.
- 5. Replace the adjusting hole cover and lower wheel to ground.
- 6. Repeat above procedure on all brakes.

CAUTION: Never crawl under your trailer unless it is resting on properly placed jack stands.

ATTENTION: Ne jamais se glisser sous la remorque à moins qu'elle ne repose correctement en place sur des chandelles.

Do not lift or place supports on any part of the suspension system.

Brake Cleaning & Inspection

Your trailer brakes must be inspected and serviced at yearly intervals or more often as use and performance require. Magnets and shoes must be changed when they become worn or scored thereby preventing inadequate vehicle braking.

Clean the backing plate, magnet arm, magnet and brake shoes. Make certain that all the parts removed are replaced in the same brake and drum assembly. Inspect the magnet arm for any loose or worn parts. Check shoe return springs, hold down springs and adjuster springs for stretch or deformation and replace if required.

CAUTION: Asbestos Dust Hazard. Since some brake shoe friction materials contain asbestos, certain precautions need to be taken when servicing brakes:

ATTENTION: Risque lié à la poussière d'amiante. Étant donné que les matériaux de friction de certains segments de frein contiennent de l'amiante, certaines mesures de précaution doivent être prises au moment de procéder à des opérations d'entretien des freins.

- 1. Avoid creating or breathing dust.
- 2. Avoid machining, filing or grinding the brake linings.
- Do not use compressed air or dry brushing for cleaning. (Dust can be removed with a damp brush).

Trailer Storage

Preparation

If your trailer is to be stored for an extended period of time or over the winter, it is important that the trailer be prepared properly.

- 1. Remove the emergency breakaway battery and store inside, out of the weather. Charge the battery at least every 90 days.
- Jack up the trailer and place jack stands under trailer frame so that the weight will be off the tires. Never jack up or place jack stands on the axle tube or on the equalizers.
- Lubricate mechanical moving parts that are exposed to weather, such as the hitch and suspension parts.

NOTE: On oil lubricated hubs the upper part of the roller bearings are not immersed in oil and are subject to potential corrosion. For maximum bearing life it is recommended that you revolve your wheels periodically (every 2-3 weeks) during periods of prolonged storage.

After Prolonged Storage — Inspection Procedures

Before removing trailer from jack stands:

- Remove all wheels and hubs or brake drums. Note which spindle and brake that the drum was removed from so that it can be reinstalled in the same location.
- 2. Inspect suspension for wear.
- 3. Check tightness of hanger bolt, shackle bolt and U-bolt nuts per recommended torque values.
- 4. Check brake linings, brake drums and armature faces for excessive wear or scoring.
- Check brake magnets with an ohmmeter. The magnets should check 3.2 ohms. If shorted or worn excessively, replace.
- Lubricate all brake moving parts using a high temperature brake lubricant. (Lubriplate or equivalent).

CAUTION: Do not get grease or oil on brake linings or magnet face.

ATTENTION: Ne pas permettre à de la graisse ou de l'huile d'entrer en contact avec les garnitures de frein ou l'aimant.

- Remove any rust from braking surface and armature surface of drums with fine emery paper or crocus cloth. Protect bearings from contamination while so doing.
- 8. Inspect oil or grease seals for wear or nicks. Replace if necessary.
- 9. Lubricate hub bearings. Refer to procedure in manual.
- Reinstall hubs and adjust bearing per instructions in manual.

Pressure Washer Troubleshooting

Problem	Possible Cause	Solution
	Faulty pressure gauge	Install new gauge.
	Insufficient water supply	Use larger supply hose; clean filter at water inlet.
	Old, worn or incorrect spray nozzle	Match nozzle number to machine and/or replace with new nozzle.
	Belt slippage	Tighten or replace; use correct belt.
	Plumbing or hose leak	Check plumbing system for leaks. Re-tape leaks with Teflon tape.
	Faulty or mis-adjusted unloader valve	Adjust unloader for proper pressure. Install repair kit when needed.
LOW OPERATING	Worn packing in pump	Install new packing kit.
PRESSURE	Fouled or dirty inlet or discharge valves in pump	Clean inlet and discharge valves.
	Worn inlet or discharge valves	Replace with valve kit.
	Obstruction in spray nozzle	Remove obstruction.
	Leaking pressure control valve	Rebuild or replace as needed.
	Slow engine RPM	Set engine speed at proper specifications.
	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
	Unloader valve seat faulty	Check and replace if necessary.
	Little or no fuel	Fill tank with fuel.
	Improper fuel or water in fuel	Drain fuel tank and fill with proper fuel.
	Clogged fuel line	Clean or replace.
	Plugged fuel filter	Replace as needed.
	Mis-adjusted burner air bands	Readjust air bands for clean burn.
	Little or no fuel pressure from fuel pump	Increase fuel pressure to specification and/ or replace fuel pump. Test with pressure gauge.
	Faulty burner transformer	Test transformer for proper arc between contacts. Replace as needed.
BURNER WILL	Disconnected or short in electrical wiring	All wire contacts should be clean and tight. No breaks in wire.
NOT LIGHT	Flex coupling slipping on fuel pump shaft or burner motor shaft	Replace if needed.
	On-Off switch defective	Check for electrical current reaching burner assembly with burner switch on.
	Heavy sooting on coil and burner can cause interruption of air flow and shorting of electrodes	Clean as required.
	Improper electrode setting	Check and reset according to diagram in Operator's Manual.
	Fuel not reaching combustion chamber	Check fuel pump for proper flow. Check solenoid flow switch on machines with spray gun control, for proper on-off fuel flow control.

Problem	Possible Cause	Solution
	Clogged burner nozzle	Clean as required.
BURNER WILL	Thermostat faulty or slow engine speed	Increase engine RPM to increase voltage.
NOT LIGHT	Flow switch malfunction	Remove, test for continuity and replace as needed.
	Flow solenoid malfunction	Replace if needed.
	Valves worn	Check and replace if necessary.
	Blockage in valve	Check and replace if necessary.
	Pump sucking air	Check water supply and air seepage at joints in suction line.
FLUCTUATING	Worn piston packing	Check and replace if necessary.
PRESSURE	Gasoline engine altitude	The gasoline engine is preset for operation at altitudes below 1000 ft above sea level. If operated at higher altitudes, it may be necessary to install a high altitude main jet in the carburetor. Contact your local authorized engine sales and service center for details.
	Improper fuel or water in fuel	Drain tank and replace contaminated fuel.
	Improper air adjustment	Readjust air bands on burner assembly.
	Fuel pressure is low <140 psi for burner	Adjust fuel pump pressure to specifications.
MACHINE	Burner nozzle is plugged or dirty	Replace nozzle. Check parts breakdown for nozzle size.
SMOKES WHILE BURNER UNIT IS	Burner nozzle spray pattern is faulty	Replace nozzle. Check parts breakdown for nozzle size.
RUNNING OR UNIT SMOKES AT	Heavy accumulation of soot on coils and burner assembly	Remove coils and burner assembly, clean thoroughly or Call local dealer.
COLD-START	Misaligned electrode setting	Realign electrodes to specifications
ONLY WHEN BURNER IS OFF	Obstruction in smoke stack	Check for insulation blockage or other foreign objects
	Low engine RPM	Increase RPM
	Fuel Pressure is too high for clean burn (fuel PSI above 140 and below 200) and smokes when burner is off	Reduce fuel pressure PSI/Increase air band set for cleaner without max water heat loss
	Improper fuel or water in fuel	Replace with clean and proper fuel.
	Low fuel pressure	Increase fuel pressure.
LOW WATER	Weak fuel pump	Check fuel pump pressure. Replace pump if needed.
TEMPERATURE	Fuel filter partially clogged	Replace as needed.
	Soot build-up on coils not allowing heat transfer	Clean coils.
	Improper burner nozzle	See Burner Specifications.

Pressure Washer Troubleshooting

Problem	Possible Cause	Solution
	Incoming water to machine warm or hot	Lower incoming water temperature.
	Fuel pump pressure too high	See specifications for proper fuel pressure.
	Fuel pump defective	Replace fuel pump.
WATER TEMPERATURE	Detergent line sucking air	Tighten all clamps. Check detergent lines for holes.
тоо нот	Defective temperature switch	Replace.
	Incorrect fuel nozzle size	See specifications for proper fuel nozzle.
	Insufficient water supplied	Check water G.P.M. to machine.
	Restricted water flow	Check nozzle for obstruction, proper size.
	Air in suction line	Check water supply and connections on suction line.
PUMP NOISY	Broken or weak inlet or discharge valve springs	Check and replace if necessary.
	Excessive matter in valves	Check and clean if necessary.
	Worn bearings	Check and replace if necessary.
PRESENCE OF	Oil seal worn	Check and replace if necessary.
WATER IN OIL	High humidity in air	Check and change oil twice as often.
	Piston packing worn	Check and replace if necessary.
WATER PRIPRING	O-Ring plunger retainer worn	Check and replace if necessary.
WATER DRIPPING FROM UNDER	Cracked piston	Check and replace if necessary.
PUMP	Pump protector	Lower water supply pressure. Do not run with spray gun closed longer than 2 minutes.
OIL DRIPPING	Oil seal worn	Check and replace if necessary.
EXCESSIVE VIBRATION IN DELIVERY LINE	Irregular functioning of the valves	Check and replace if necessary.
	Air leak	Tighten all clamps. Check detergent lines for holes.
	Restrictor in float tank is missing	Replace restrictor. Check for proper orifice in restrictor.
DETERGENT NOT DRAWING	Filter screen on detergent suction hose plugged	Clean or replace.
	Dried up detergent plugging metering valve	Disassemble and clean thoroughly.
	High viscosity of detergent	Dilute detergent to specifications.
	Hole in detergent line(s)	Repair hole.
	Low detergent level	Add detergent, if needed.

Problem	Possible Cause	Solution
	Pump sucking air	Check water supply and possibility of air seepage.
PUMP RUNNING NORMALLY BUT	Valves sticking	Check and clean or replace if necessary.
PRESSURE LOW ON INSTALLATION	Nozzle incorrectly sized	Check and replace if necessary (See serial plate for proper size).
	Unloader valve seat faulty	Check and replace if necessary.
	Worn piston packing	Check and replace if necessary.
	Fuel pump seized	Replace fuel pump.
DUDNED MOTOD	Burner fan loose or misaligned	Position correctly, tighten set screw.
BURNER MOTOR WILL NOT RUN	Defective control switch	Replace switch.
VILLINOTINON	Loose wire	Check and replace or tighten wiring.
	Defective burner motor	Replace motor.
RELIEF VALVE LEAKS WATER	Relief valve defective	Replace or repair

Maintenance

This pressure washer was produced with the best available materials and quality craftsmanship. However, you as the owner have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment. Contact your dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions.

Maintenance Schedule		
	Inspect	Daily
Engine Oil	Change	Every 25 hours
	Filter	Every 50 hours
Air Cleaner	Inspect	Every 50 hours or monthly
All Cleaner	Clean	Every 3 months
Battery Level		Check monthly
Engine Fuel Filter		500 hours or 6 months
Spark Plug Maintena	nce	500 hours or 6 months
Clean Fuel Tank(s)		Annually
Replace Fuel Lines		Annually
Pump Oil (Non-	Inspect	Oil level daily
detergent SAE 10W-40)	Change	After first 50 hours, then every 500 hours or annually
Clean Burner Filter		Monthly (More often if fuel quality is poor)
Remove Burner Soot		Annually
Burner Adjustment/Cleaning		Annually
Replace Burner Noz	zle	Annually
Descale Coil		Annually (More often if required)
Replace High Pressure Nozzle		Every 6 months
Replace Quick Connects		Annually
Clean Water Screen/Filter		Weekly
Replace HP Hose		Annually or as needed
Diverter Valve Cable		Lube Cable Weekly
Rupture Disk		Replace every 2 years

Oil Change Record

Check pump oil level before first use of your new Power Washer. Change pump oil after first 50 hours and every 3 months or 500 hours thereafter. Use SAE 10W-40 weight oil, non-detergent.

Date Oil Changed Month/Day/Year	No. of Operating Hours Since Last Oil Change	Brand Name & Type of Oil (see above)

Preventative Maintenance

This trailer was produced with the best available materials and quality craftsmanship. However, you as the owner, have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment.

MAINTENANCE SCHEDULE			
Tire Air Pressure	Inflate to proper pressure indicated on sidewall	Every Trip	
Wheel Lugs, Bolts & Nuts	Tighten to proper torque specifications	Every 3000 mi or 3 mos.*	
Wheel	Check for damage and or out-of-round	Every 6000 mi or 6 mos.	
Coupler Ball	Check for sufficient lube. Check lock mechanism. Check for unusual wear.	Every trip	
Safety Chains at Hitch Ball	Check for abrasion, distortion and general integrity of links.	Every trip	
Coupler	Check for proper fastening & hitch pin in position and secure.	Every trip	
Brakes	Check for proper adjustment & operation	Every trip	
Breakaway Switch	Test switch operation and connections	Every trip	
Breakaway Battery	Pull switch pin, check charge indicator light	Every trip	
Load Distribution	Check load distribution & security	Every trip	
Leveling Jacks	Check fastenings. Lube.	Every trip	
Welds	Check all weld beads for cracks or separations	Every 6000 mi. or 6 mos.	
Hinges	Grease zerks with a Lithium complex grease	Every 3000 mi. or 3 mos.	
Tie Down Devices	Check for fracturing, distortion and improper anchoring.	Every 3000 mi., or 3 mos.	
Electrical: Lights & Signals	Check to make sure all are working properly. Replace burned out bulbs.	Every trip	

^{*} Check lug nuts for tightness before initial trip, at 10 miles, 25 miles and 50 miles. Recheck at least every 3 months or 3000 miles

Axles, Hubs and Brakes

Maintenance for axles, hubs and brakes is extremely important for protecting the longevity of your trailer. It is extremely important for your personal safety and the protection of others.

Never shortcut axle, hub and brake service and maintenance





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