



DOT Trailers



5-1-09 05-18R1

Printed In The USA — Specifications & Design Subject To Change Without Notice!



Warranty Information

This equipment was carefully designed and manufactured to give you dependable service. To insure efficient operation of this equipment, please read this operator's manual carefully. Check each item and acquaint yourself with the adjustments required to maintain optimum performance and operation. **Remember, this equipment's performance depends on how you operate and care for it!**

At the end of each season, thoroughly clean and inspect your equipment. Preventive maintenance saves time and pays dividends. Your nearest Wylie Spray Center has original equipment parts which assure proper fit and best performance. Record your equipment's model and serial numbers and the date you purchased this equipment in the space below. Have this information available when you order parts or attachments.

Model Number: _____

Serial Number: _____

Date Purchased: _____

Limited Warranty

This is a limited warranty. It covers products manufactured by WYLIE Mfg. Co. The Warrantor is **WYLIE Mfg. Co., 702 E. 40th St., Lubbock, TX 79404 USA**. The duration of the warranty for WYLIE manufactured equipment and products (excluding polyethylene tanks) is for **one year from date of delivery to the carrier**. The Warrantor warrants to the Buyer that the product(s) sold hereunder are free from defects to material and workmanship, under normal use and service, in the hands of the original buyer.

If goods are defective, the defective goods will be replaced with identical goods. If identical goods are not available, the Buyer may elect to receive a refund of the purchase price for the defective goods, or the Buyer may order similar goods. **The damage for defective goods shall not exceed the purchase price of the defective goods. No allowance shall be made for labor or expense or repairing goods without prior approval in writing by the Warrantor.** The Buyer's remedy under this warranty does not include incidental or consequential damages.

For products not manufactured by the Warrantor, the Warrantor warrants these products to the extent of the warranties of their respective manufactures. **There are no warranties which extend beyond this limited warranty, including the implied warranty of merchantability.** Dealers or representatives shall not make any representation in regard to particular goods except as authorized by the Warrantor through a written warranty accompanying those particular goods.

Disclaimer of Warranty

WYLIE Mfg. Co., and its divisions, "Wylie Spray Centers," in each location, requires as a condition of sale and coverage by its LIMITED WARRANTY that all equipment sold by it be used in accordance with the instructions and specifications of the Warrantor. This requirement is in addition to the LIMITED WARRANTY.

Polyethylene and fiberglass tanks – These tanks are warranted for the storage and transport of water, herbicide solutions (on farm), liquid fertilizer and liquid feed. Such tanks should not be used for the storage of any bulk herbicide (undiluted). Any such use will render this warranty void.

In addition, the Warrantor makes no warranty with regard to bulkhead tank fittings used in connection with tanks containing bulk herbicides and the use of any such fittings sold by the Warrantor or any WYLIE dealer in connection with tanks containing bulk herbicides is improper.

Chemical Incompatibility – The Warrantor does not make any recommendations or warranties regarding chemical compatibility. WYLIE shall not be liable for any damages due to chemical incompatibility, and any Buyer or user should rely solely on written information furnished by the chemical manufacturer regarding chemical compatibility.

No employee of WYLIE Mfg. Co., or its representatives, agents or dealers, is authorized to vary the terms of this limited warranty.



Wylie Manufacturing Company
 702 E. 40th St.
 Lubbock, TX 79404
 Ph. 888-788-7753

DOT Trailer

Date of Purchase		Model Number	
Tank Serial Number		Type of Trailer: <input type="checkbox"/> Gooseneck <input type="checkbox"/> Platform <input type="checkbox"/> Tag	
Trailer Serial Number			
Pump Model			
Wylie Invoice Number			
Owner's Name			
Address			
City	State	Zip	
Dealer			

 Owner's Signature

Must be returned within 10 days to validate the warranty.



Table Of Contents

Safety Issues	2-3
Reporting Safety Defects.....	3
Safety Decals & Placement	4
Introduction.....	5
Inspection & Setup	6-7
Operation.....	8-11
Maintenance.....	11
Troubleshooting Guidelines.....	12-13
Repair Parts.....	15-28
Gooseneck Trailer	16
Platform Trailer	17
Leg Tank Tag Trailer	18
Elliptical Tank Tag Trailer	19
1600 Gooseneck Tandem Axle Trailer.....	20
Lights & Breakaway Brake System	21
Pump and Plumbing, Tag Trailer	22
Pump and Plumbing, Gooseneck Trailer.....	23
Sight Gauge.....	24
Axles & Hubs	25 - 27



Be alert when you see the above symbol in the manual. It warns of a hazard which might lead to injury. It means: ***Attention! Become alert! Your safety is Involved!***

DANGER – Indicates an imminently hazardous situation which, if not avoided, likely will cause serious injury or death. It is associated with the most extreme situations, typically for machine components, which, for functional purposes, cannot be guarded.

WARNING – Indicates a potentially hazardous situation, which, if not avoided, could result in serious injury or death. Relates to hazards that are exposed when guards are removed and alerts against unsafe practices.

CAUTION – Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may be used as an alert against unsafe practices.

Before Use



Do not operate trailer until this manual has been read and understood!

- ☛ Thoroughly read and understand all instructions before operating this trailer. If you have questions, please contact **Wylie Manufacturing, 702 E. 40th St., Lubbock, TX 79404, (888) 788-7753**. You can also contact your nearest **Wylie Spray Center**.
- ☛ Make sure that the trailer is properly attached to the tow vehicle, including lights, safety chains, hitch and breakaway brake cable.
- ☛ Check lug bolts for tightness and tires for wear.
- ☛ Adjust hitch height as needed to assure that trailer is level when fully loaded.
- ☛ Always wear safety goggles, chemical resistant apron and rubber gloves when handling chemicals.
- ☛ Read and understand the chemical manufacturer's safety guidelines on handling, mixing and application.

During Use



- ☛ Do not allow anyone to ride on trailer during operation. Falling can cause injury or death.
- ☛ Reduce speed when crossing uneven or rough terrain.
- ☛ Always turn off tow vehicle engine before making adjustments or repairs to an attached trailer.



After Use



- ☛ Inspect trailer for wear or damage.
- ☛ Ensure that all fasteners and fittings are tight.
- ☛ Flush tank and pump with fresh water if chemicals are used. Dispose of flush water using appropriate means.
- ☛ Carry out maintenance and/or lubrication procedures as outlined in this manual.

Always



- ☛ Keep hands, feet and clothing away from moving parts.
- ☛ Wear protective clothing and gloves when working with chemicals.
- ☛ Assure that the hitch is attached to the proper size ball.
- ☛ Attach the safety chains and breakaway brake cable to the tow vehicle.
- ☛ Plug the lights into the tow vehicle.

Operator's Instructions



- ☛ When possible, avoid operating the tow vehicle near ditches, embankments and holes.
- ☛ Reduce speed when turning, crossing slopes and on rough, slick or muddy surfaces.
- ☛ Do not permit others to ride.
- ☛ Operate tow vehicle smoothly – no jerky turns, starts and stops.
- ☛ Hitch only to the hitch points recommended by the tow vehicle manufacturer.
- ☛ When tow vehicle is idle, engage brakes and park lock securely.
- ☛ Tighten lug bolts before transporting the first time and maintain proper torque.
- ☛ Check lights and wiring daily. Service and replace to maintain proper operation.
- ☛ Do not store or transport any petroleum based or flammable liquid in the polyethylene tank.

Wylie Manufacturing, 702 E. 40th St., Lubbock, TX 79404

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 Wylie Manufacturing.

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 any individual problems between you, your dealer, or Wylie Manufacturing.

To contact NHTSA you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (366-0123 in Washington, DC area) or write to:

NHTSA
U. S. Department of Transportation
400 7th Street SW, (NSA-11)
Washington, DC 20590

You can also obtain other information about motor vehicle safety from the Hotline.



Safety Decals & Placement DOT Trailers



**White
Reflective Tape**
Decal #TMP-W200-12



Decal #V9020

**Red & White
Reflective Tape**
Decal #TMP-3M-980-02



1,600 Gal. Gooseneck Platform DOT Trailer



1,025 Gal. Tag DOT Trailer



1,600 Gal. Platform Tag DOT Trailer

Introduction

The Wylie DOT Trailers are the result of years of testing and field proven experience. They are built of the finest materials and expert workmanship to provide you with years of reliable service. The DOT Trailers are available with a 300 to 1,600 gallon tanks and a choice of frame styles -- gooseneck or tag. Other available features include a transfer pump powered by a Honda or Briggs & Stratton engine, quick fill and sparger, and a sight gauge for black tanks. The DOT Trailers come standard with lights, electric brakes, breakaway brake kit and heavy duty walkway fenders.

The Wylie DOT Trailers are designed to transport potable water, fertilizer, dilute herbicides and insecticides, and many other non-petroleum based chemicals.

This manual explains how to safely and properly operate and maintain your DOT Trailer. Thoroughly read and understand the contents of this manual before operating your trailer. If you have questions or do not understand particular items, contact your nearest Wylie Spray Center or call Wylie Manufacturing at (888) 788-7753. Please keep this manual handy to answer questions you may have as they arise.

Pay Particular Attention To All Safety Suggestions – Their purpose is to assure safe operation of the sprayer and prevent injury or damage to yourself or the unit.



Inspection & Setup

Your DOT Trailer is delivered ready for operation. However, it is suggested that you check lug nuts and other fasteners for proper torque. Check the motor, if equipped, to assure that it has the proper oil level (see the motor operator’s manual for details). Make a visual inspection to assure that nothing was damaged in shipping. Report any problems to your dealer or to Wylie Mfg.

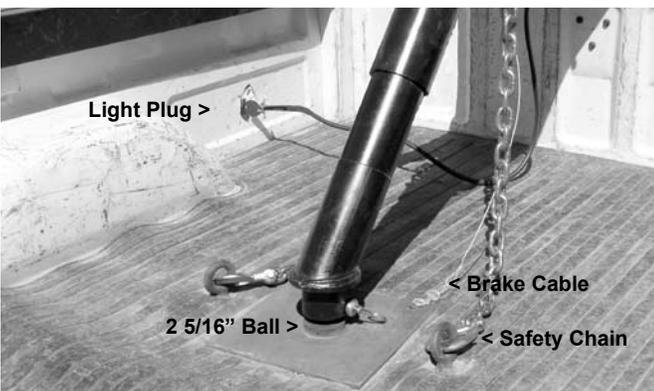
Attaching Gooseneck Trailer To Truck

All Wylie gooseneck trailers require a 2 5/16” ball mounted in the bed of the truck as well as a six prong light plug (or 6 prong adapter). Align the truck with the gooseneck hitch and lower the hitch by turning the jack handle counterclockwise. Once the hitch is lowered over the ball, insert the lock pin and secure with the clip pin. Hook the safety chains into the truck eyelets.



*Figure A1
Installing Gooseneck Lock Pin*

The Wylie DOT gooseneck trailer is equipped with a breakaway brake system that activates the trailer brakes if the trailer becomes separated from the truck. A break-away brake cable must be attached to the truck.



*Figure A2
Gooseneck Attachment To Truck*

The gooseneck trailer jack is a two-stage system. Turn the handle counterclockwise to raise the jack pad off of the ground. Pull the spring loaded lock pin out and raise the jack pad. Continue turning the handle to raise the jack to the highest position.



*Figure A3
Gooseneck Trailer Jack*

Attaching Tag Trailer To Truck

The Wylie 1,000-1,600 gallon DOT trailers require a 2 5/16” ball, while the 300 and 500 gallon trailers use a 2” ball. Make sure that the ball and hitch are the same size.



WARNING



Check to make sure that the ball and hitch are the same size. Attaching a 2 5/16” hitch to a 2” ball could allow the trailer to become unhitched during transport. Serious bodily injury could follow.

Open the “bulldog” hitch by rotating the lock tab upward until the hitch locks open. Align the truck under the hitch and lower the hitch onto the ball by rotating the jack handle counterclockwise. Close the hitch and allow the spring loaded lock collar to slide over the hitch. Secure the lock tab with a clip pin.



Figure A4
Rotate Lock Tab To Open Hitch

Attach the safety chains to the eyelets. **DOT regulations require that the safety chains cross as they are attached.** Electric brake trailers have a battery powered breakaway brake system that activates the trailer brakes if the trailer becomes unhitched from the truck while travelling. Attach the brake cable to the safety chain eyelet.

Plug the light cable into the truck light socket. Check the lights to make sure that the clearance, turn, brake and tail lights are working properly.

Pull the jack pin and rotate the jack or remove the jack from the mount collar.

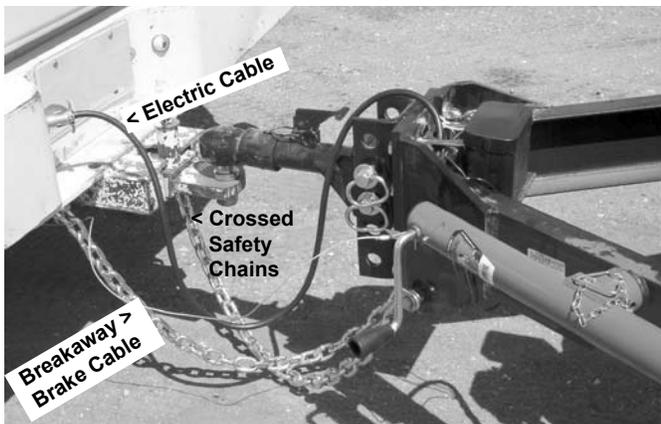


Figure A5
Tag Trailer Attachment To Truck

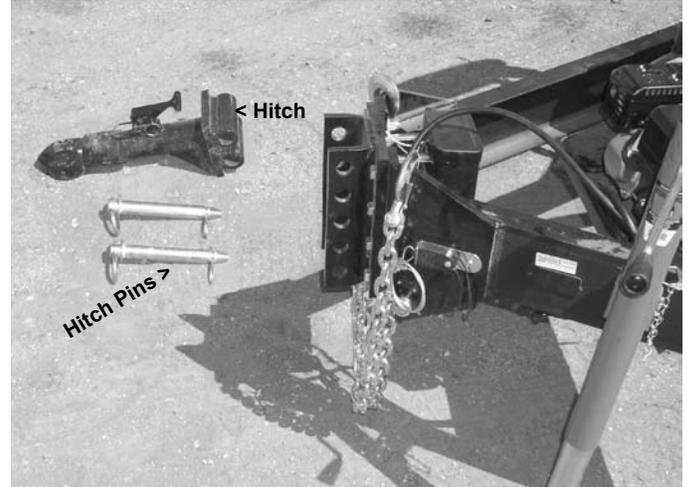


Figure A6
Remove Hitch To Prevent Theft

The Wylie DOT tag trailer is equipped with a height adjustable hitch. The trailer should travel level when the tank is full. To level the hitch, lower the jack to support the tongue, pull the hitch pins, adjust the tongue height as needed, and reinsert the hitch pins.

The pinned hitch can be removed to help prevent theft of the trailer.



Operation

The Wylie DOT Trailers can perform a wide variety of jobs. This manual will describe the basic operation of the trailer. The operator must use safe operating procedures and common sense as the trailer is used in a particular applications. *Note: Open the ball valves by turning the handle parallel to the flow. Close the valve by turning the handle perpendicular to the flow.*

Filling The Tank

The tank can be filled by three means: (1) through the tank lid (2) through the quick-fill fitting using the trailer pump (3) through the quick-fill fitting without using the trailer pump.



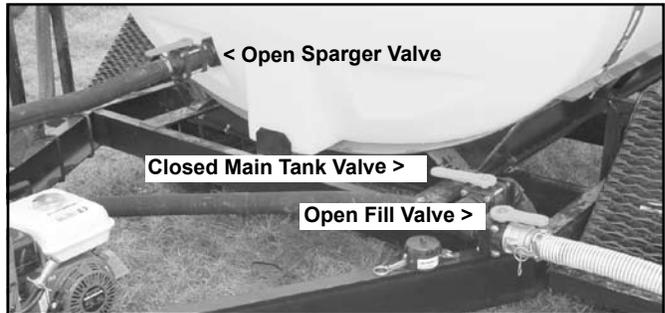
Always wear protective clothing, i.e. apron, face shield, gloves and respirator, when handling any chemicals. Failure to do so will risk chemical exposure to your body resulting in sickness, injury or possibly death.

(1) To fill the tank through the tank lid, remove the tank lid, insert the fill hose into the tank and turn the fluid source on. Many times, the source has sufficient pressure that requires the fill hose be held in place to prevent the fill hose from coming out of the tank and spilling fluid. The heavy duty fenders are designed to be used as walkways and can be used to gain access to the tank lid.



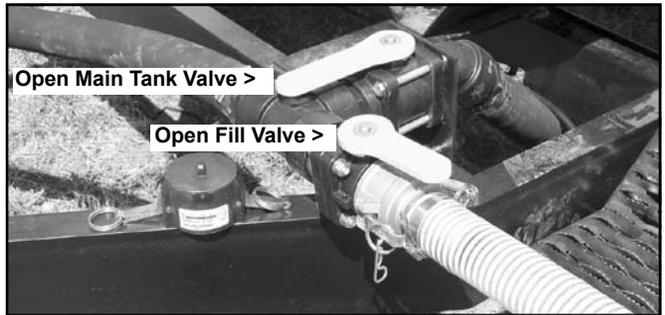
*Figure B1
Filling Tank Through Tank Lid Opening*

(2) The quick-fill fitting allows the tank to be filled while standing on the ground, which is safer than climbing onto the fender. If the fluid source is gravity fed, it may be faster to fill the tank using the transfer pump (if equipped). Remove the cap from the quick-fill fitting and quick couple the fill hose to the quick-fill fitting. Close the main tank valve, open the sparger valve (if equipped, if not, insert discharge hose into tank lid), and start the engine.



*Figure B2
Filling Tank Using Transfer Pump*

(3) If the fluid is supplied from a pressurized source, quick couple the fill hose to the quick fill fitting, open the main tank valve, and start the flow of fluid.



*Figure B3
Filling Tank From Pressurized Source*

Mixing The Solution

Some solutions may require mixing before transferring them to a sprayer or other tank. Open the main tank valve and the sparger valve (if equipped). Start the engine and allow the fluid to thoroughly mix.

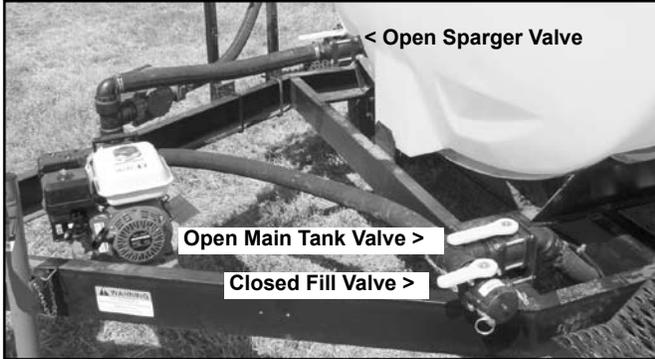


Figure B4
Mixing Solution

Discharging the Solution

Open the main tank valve and close the sparger valve (if equipped). Unroll the discharge hose and close the discharge valve. Start the engine, place the discharge valve where needed, and open the discharge valve.



Figure B5
Valve Setting for Discharging Fluid



Figure B6
Discharge Valve

Controlling Surge

Wylie polyethylene tanks have a partial baffle molded into the tank to help control surge or movement of the fluid during transport. If additional surge control is needed, Surge Buster™ inserts are available from Wylie Spray Centers.

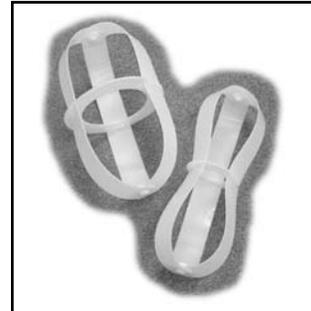


Figure B7
“Surge Buster™” Liquid Tie Down System

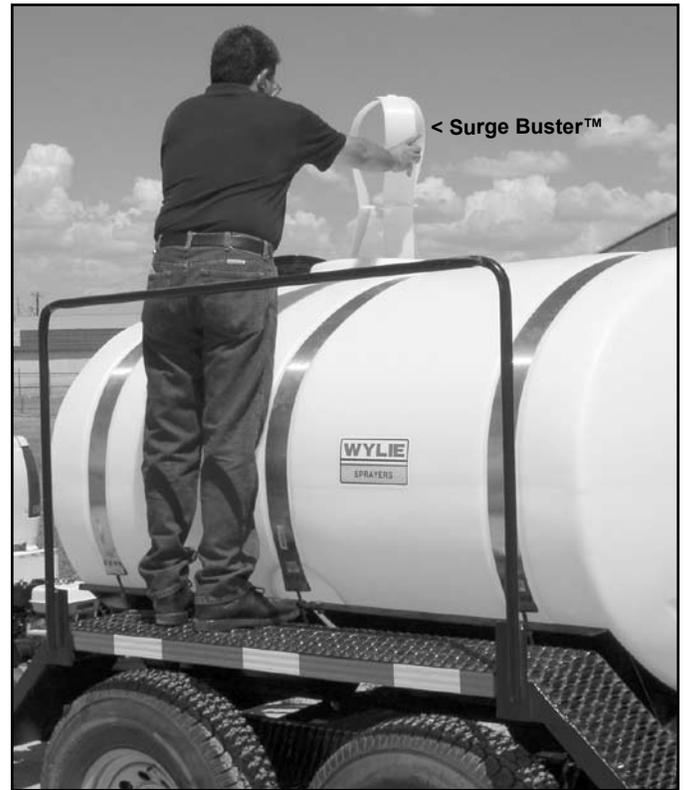


Figure B8
Inserting Surge Busters™ Into the Tank



Operation

Trailer Operation

Towing a loaded trailer requires added care and concentration for safe operation.

(1) Loaded trailers require a longer stopping distance. Maintain an increased following distance.

(2) Trailers turn a shorter radius than the tow vehicle. Swing wide on turns to prevent colliding with other vehicles or structures.

(3) Loaded trailers require more time to attain highway speeds. Take extra care when merging with traffic.

(4) Make sure that the tow vehicle is sized to properly tow the trailer at maximum load. The hitch must also be rated to handle the maximum trailer load.

(5) Make sure that the tow vehicle is properly equipped to safely tow the trailer. The tow vehicle should be equipped with functional light and brake equipment, safety chain anchors, and correctly sized and anchored ball.

(6) Check the following components regularly:
Tires: Check and maintain proper inflation daily.

Lights: Inspect lights, wiring and plug daily. Replace damaged or worn components.

Brake battery: Keep breakaway battery (electric brakes) charged. Replace if it will not hold a charge.

Wheel bearings: Repack bearings every 6 months or 6,000 miles. Check hubs daily for heat buildup. Excess heat is a sign of insufficient lubrication and impending failure.

Hitch: Before each trip, make sure that the hitch is properly locked on the ball. Replace the hitch if it becomes worn or inoperable.

Chemical Compatibility

Wylie polyethylene tanks are designed to hold a wide variety of fluids, but are not compatible with some fluids. **Wylie polyethylene tanks are not designed to hold petroleum based chemicals or petroleum fuels.** If you have any questions regarding the chemical compatibility with Wylie polyethylene tanks, call Wylie Customer Service at 888-788-7753 or your nearest Wylie Spray Center.

⚠ WARNING ⚠

DOT approved for non-flammable and non-hazardous materials only. Transporting flammable or hazardous materials in this trailer may be dangerous and unlawful. Storing or transporting petroleum based fluids can cause the tank to fail and will void the warranty.

Black Tank and Sight Gauge

DOT trailers that are intended to haul water may be equipped with a black tank and sight gauge. The opaque black tank prevents sunlight from forming algae in the tank. The sight gauge allows the operator to observe the fluid level in the tank.

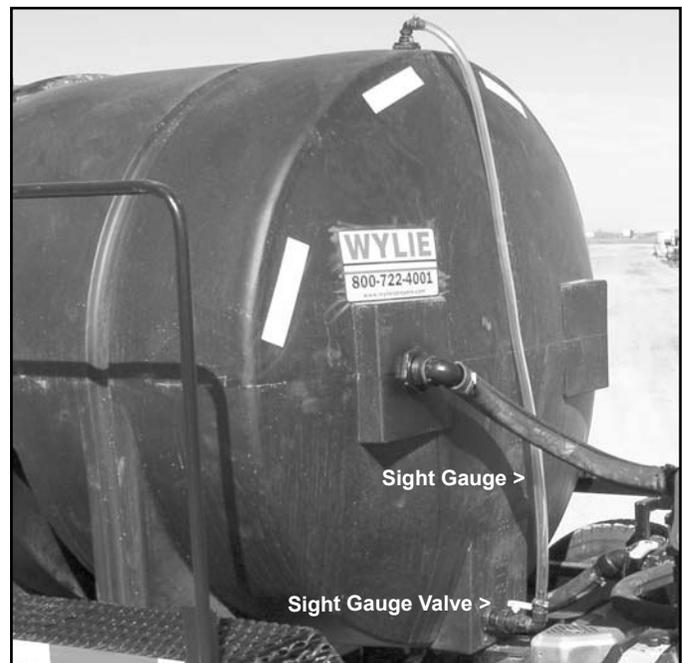


Figure B9
Sight Gauge

The sight gauge is equipped with a ball valve. The valve can be closed to prevent loss of fluid if the tube becomes damaged or to facilitate changing of the tube.

Cargo Platform

Some DOT trailer models are equipped with a cargo platform that is sized to carry a bulk chemical tote or fork lift pallet. The platform should be loaded from the left (driver's) side. The load should be secured with ratchet straps anchored to the trailer frame.



*Figure B10
Cargo Platform*

Maintenance & Lubrication

Freeze Protection

The tank and fittings are susceptible to rupture in freezing conditions if water or some other fluids are left in the tank or plumbing. To prevent freeze damage, the tank and plumbing should be drained. Remove the plug beneath the tank, the pump drain plug, and open valves to allow the water to drain from the system. The system can be further protected by adding a few gallons of nontoxic RV antifreeze solution to the tank and pumping it through the plumbing system.



*Figure B11
Tank Drain Plug*

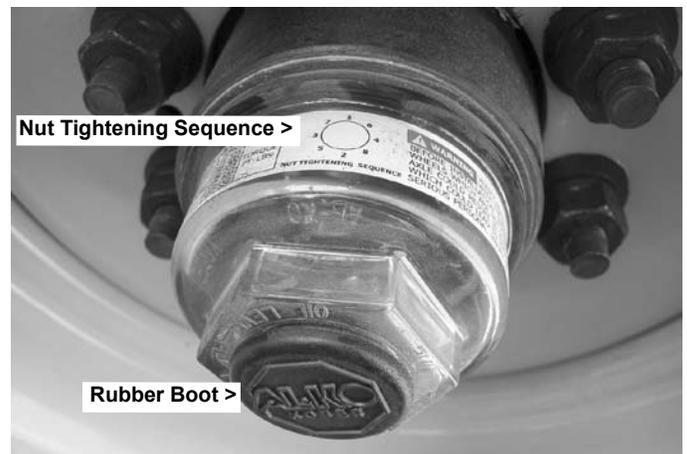
Pump/Motor

Refer to the manuals provided by the pump and motor manufacturer for maintenance instructions for the respective components.

Lubrication

The wheel bearings should be packed every 6 months or every 6,000 miles (whichever comes first). Lubrication may be needed more often if the trailer is used in severe conditions. The wheel hubs should be checked regularly for excess heat. Heat buildup is an indication that the bearings need grease and may soon fail.

The wet hubs of the 1600 Tandem Axle Nurse Trailers use SAE 90 Grade Gear Oil. To add oil, remove the rubber boot and add oil to the fill line.



*Figure C3
1600 Tandem Axle Wheel Hub*

If a wheel is removed, it is imperative that the lug nuts be tightened in sequence when the wheel is mounted. Note the decal for the nut tightening sequence.



Troubleshooting Guidelines

Problem	Cause	Solution
Pump Will Not Operate	<ul style="list-style-type: none"> (1) Engine not starting or running properly (2) Coupler between pump and engine broken 	<ul style="list-style-type: none"> (1) Refer to engine owner's manual (2) Replace coupler
Pump will not move solution	<ul style="list-style-type: none"> (1) Spray tank empty (2) Main tank ball valve closed (3) Plugged strainer (4) Malfunctioning pump (5) Discharge valve not open 	<ul style="list-style-type: none"> (1) Fill tank (2) Open ball valve (3) Clean strainer screen (4) See pump owners manual or contact Wylie Spray Center (5) Open discharge valve
Pump output is very low; erratic	<ul style="list-style-type: none"> (1) Spray tank low; air getting in pump (2) Tank ball valve partially closed (3) Plugged strainer (4) Collapsed suction hose (5) Air leak in suction system (6) Malfunctioning pump (7) Engine speed too slow (8) Sparger (bypass) valve is open 	<ul style="list-style-type: none"> (1) Fill tank (2) Open ball valve (3) Clean strainer screen (4) Replace suction hose (5) Tighten fittings; Check for cracked or cut components; Apply thread sealant to pipe threads; Close fill valve. (6) See pump owners manual or contact Wylie Spray Center (7) Increase engine speed (8) Close sparger valve



Troubleshooting Guidelines

Problem	Cause	Solution
Electric trailer brakes not operating	(1) Electric trailer plug not properly pugged into vehicle (2) Vehicle brake controller malfunctioning (3) Brake shoes misadjusted (4) Brake shoes worn	(1) Properly connect to tow vehicle (2) Check and repair brake controller (3) Adjust brake shoes (4) Replace brake shoes
Surge trailer brakes not operating	(1) Hydraulic fluid level is low (2) Air in brake system (3) Hydraulic brake line damaged or broken (4) Brake shoes misadjusted (5) Brake shoes worn	(1) Add brake fluid (fluid must be approved, clean, and uncontaminated) (2) Bleed brakes to remove air (3) Replace brake line (4) Adjust brake shoes (5) Replace brake shoes
Brakes will not release	(1) Emergency brake system is engaged (2) Brake controller is engaged	(1) Electric brakes -- Plug emergency brake "key" into receptacle (1) Surge brakes -- Disengage emergency brake lever (2) Disengage brake controller
One or more lights not working	(1) Light bulb burned out (2) Loose or broken wire	(1) Replace light bulb (2) Repair loose or broken wire
Lighting system is not working	(1) Electric trailer plug not properly pugged into vehicle (2) Blown fuse (3) Loose or broken wire	(1) Properly connect to tow vehicle (2) Replace fuse (3) Repair loose or broken wire



NOTES