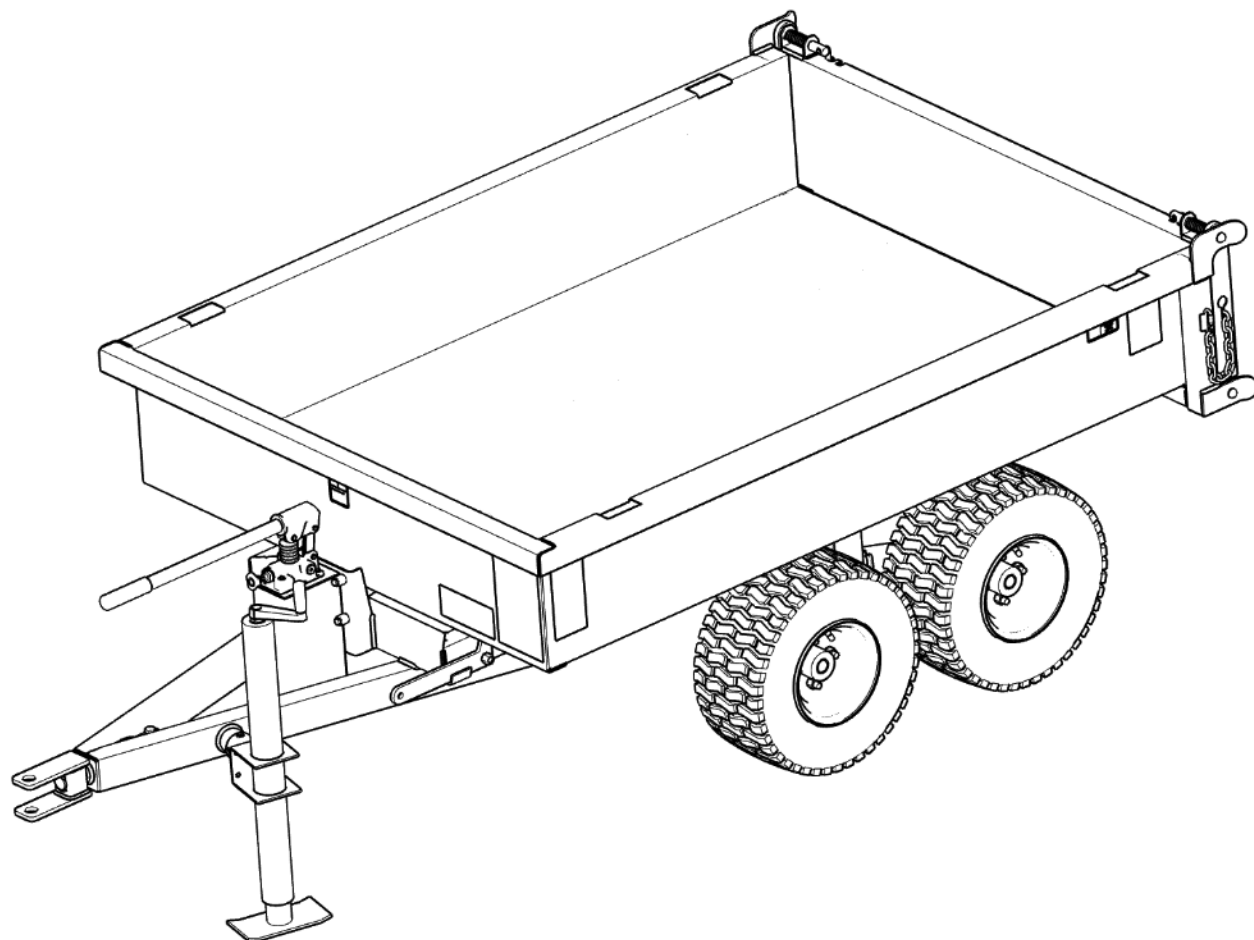


Operator's Manual

4000719 | REV A



1.5 Ton Hydraulic Dump Trailer

WARNING

Read and understand this operator's manual prior to operating this equipment. Failure to follow these instructions could result in personal injury or damage to the equipment.

Introduction

Thank you for purchasing the 1.5 Ton Hydraulic Dump Trailer. You can expect many years of reliable service when this implement is maintained and used within the limits of its capabilities. Please read this manual before attempting to operate the equipment and keep it handy for reference.

Intended Use

The 1.5 Ton Hydraulic Dump Trailer is intended for hauling debris and spreading materials such as loose gravel, sand, and mulch. It is designed to be pulled with a tractor or ATV/UTV capable of accepting a swivel clevis hitch (standard) or 2" ball coupler (sold separately). The 1.5 Ton Hydraulic Dump Trailer is not designed for any purpose other than what is stated in this manual and is not designed for transporting on public roads or highways.

Using this Manual

This manual is designed to help familiarize the operator with this machine's safety, assembly, operation, adjustments, troubleshooting, and maintenance expectations and create awareness of the hazards that operators may encounter because of its use. This manual intends to provide specific machine guidelines and help owners and operators obtain the best results and safe operation from their investment with a focus on accident and injury prevention.

All users must read and understand the information in this manual prior to operation. Do not allow anyone who has not fully read and understood this manual to operate or maintain the equipment. Failure to follow the procedures described in this manual could result in equipment damage or physical injury or death to you or bystanders.

Please keep this manual with the machine for future reference, as it is considered part of your machine. The life of any machine depends on the care given to it. Refer to and review the manual often for preventative maintenance.

The information contained within this manual was current at the time of printing. Some parts or information are subject to change to ensure the best performance of the machine. The manufacturer reserves the right to make changes in materials or design of the product and its manual at any time without notice.

Owner Assistance

Use only genuine service parts available from an authorized dealer. Do not modify the machine or use with attachments other than the options and accessories specified in this manual.

Contact an authorized dealer if service or repair parts are needed. Authorized dealers have trained personnel, repair parts, and equipment needed to service this implement.

For quick reference and prompt service, record the model number and any other identifying information, such as a dealer-applied serial number or UPC, in the space provided below and again in the warranty section on **page 27**. These numbers will be needed when ordering service parts.

There may be times when circumstances not covered in the manual occur. At those times, or if this manual's instructions or safety requirements are not understood, please contact an authorized dealer.

Dealer Contact Information

Name

Address

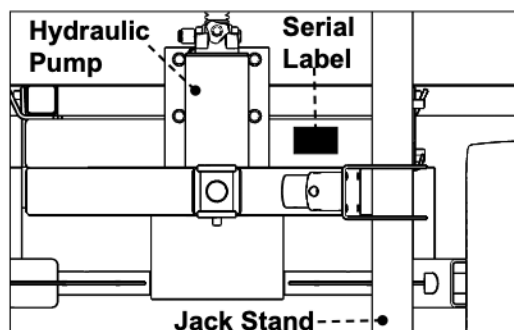
Phone

Email

Purchase Date

Serial Number / UPC

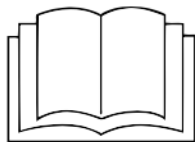
Serial Label Location



Serial label located near front left corner of trailer frame.

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This operator's manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must supply this manual with the machine. Replacement manuals are available from authorized dealers.

Throughout this manual, references are made to right and left direction. These are determined by standing behind the dump trailer and facing the direction of forward travel.

The illustrations and data used in this manual were current at the time of printing. However, due to possible inline production changes, your machine may vary slightly in detail. The manufacturer reserves the right to redesign and change the machines as may be necessary without notification.



SAFETY GUIDELINES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

Safety is a primary concern in the design and manufacture of the 1.5 Ton Hydraulic Dump Trailer. Unfortunately, efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe procedures can cause damage to equipment. The terms **DANGER**, **WARNING**, and **CAUTION** are used in conjunction with the Safety-Alert Symbol, (a triangle with an exclamation mark), to indicate the degree of hazard for items of personal safety.

Safety Alert Symbol



This **SAFETY ALERT SYMBOL** identifies important safety messages on the equipment and in the operator's manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Safety Signal Words

The safety labels on the machine and safety messages in this manual use a combination of symbols, signal words, and color-coding to identify the following hazardous situations or safety practices:



DANGER

The signal word **DANGER** on the machine and in the manual indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING

The signal word **WARNING** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

The signal word **CAUTION** on the machine and in the manual indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

IMPORTANT

The signal word **IMPORTANT** identifies procedures which must be followed to avoid damage to the machine.

NOTE

Notes indicate important information. This information may be repeated in other areas of the manual.

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known in the State of California to cause cancer, birth defects, and other reproductive harm.

For more information, visit: www.p65warning.ca.gov

SAFETY GUIDELINES

Training

Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety label information. Operators are responsible for reading and understanding all safety and operating instructions in the manual and following them. Failure to follow instructions or safety rules can result in severe injury or death. Replacement manuals and safety labels are available from authorized dealers.

Operators needing assistance understanding any part of this manual should contact their authorized dealer.

Operators must be instructed in and capable of safely operating the equipment, its attachments, and all controls. Operators must know how to quickly stop the tractor engine and any attached implements in an emergency. An untrained operator exposes them self and bystanders to possible serious injury or death and is not qualified to use the equipment.

Only a properly trained and physically able person should operate the power unit and attachment. If older adults are assisting with work, their physical limitations must be recognized and accommodated.

Under no circumstances should minors be allowed to operate the power unit or the dump trailer.

If the dump trailer owner loans, rents, or permits other persons to use the equipment, it is the owner's responsibility to supply the operator's manual and ensure that operators:

1. Read and understand the operator's manual.
2. Receive training for safe and proper use.

Preparation

Only operate the power unit and dump trailer once you have read and thoroughly understand this manual, the power unit operator's manual, and each of the safety messages found on the safety signs on the power unit and dump trailer.

Check all hardware to ensure it is installed correctly. Always tighten hardware to torque chart specifications unless instructed otherwise in this manual.

Make sure implement is properly secured, adjusted, and in good operating condition.

Make sure all safety labels are installed. Replace if damaged (see **page 9, Safety and Instruction Labels**).

Always wear tight, belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, ears, and head; wear a respirator or filter mask where appropriate.

Prolonged exposure to loud noise may cause permanent hearing loss. Tractors and ATV/UTVs can often be noisy enough to cause permanent, partial hearing loss. Wearing hearing protection on a full-time basis is recommended if the noise in the operator's position exceeds 80 dB. Noise over 80 dB on a long-term basis can cause severe hearing loss. Noise over 90 dB adjacent to the operator over a long-term basis may cause permanent, total hearing loss. **NOTE:** Hearing loss from loud noise (from tractors, ATV/UTVs, chainsaws, radios, and other such sources close to the ear) is cumulative over a lifetime without hope of recovery.

Remove accumulated debris from the power unit engine to avoid fire hazards.

Ensure the power unit has sufficient towing capacity to transport the dump trailer safely. Review the specifications and towing information in the power unit's operator's manual and the dump trailer specifications chart on **p. 25**.

Tractors and UTVs must be equipped with a Rollover Protective Structure (ROPS) or ROPS cab and seat belt. Keep the seat belt securely fastened. Keep the foldable ROPS system in the "locked up" position at all times.

When using a tractor as a transport vehicle, a minimum of 20% of tractor and equipment weight must be on the tractor's front wheels when implements are in transport position. Without this weight, the tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. **DO NOT ESTIMATE!**

When using an ATV/UTV as a transport vehicle, consult the operator's manual for ballast and weight distribution information.

(Continued on next page.)

SAFETY GUIDELINES

Starting and Stopping

Accelerate and decelerate slowly, especially when the dump trailer is loaded. Accelerating and decelerating too quickly may cause a load to shift and become unbalanced, causing unstable driving conditions. The dump trailer does not have an independent braking system.

Understand the controls of the power unit and how to disengage the engine in an emergency.

Transportation

The dump trailer is not intended for highway use. **DO NOT** transport at speeds exceeding 20 MPH. Reduce speed when going up or down hills and approaching ditches or corners. Use care when transporting on rough terrain. Always check the power unit operator's manual for proper use on slopes.

When using a tractor as a transport vehicle, a minimum of 20% of tractor and equipment weight must be on the tractor's front wheels when implements are in transport position. Without this weight, the tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. **DO NOT ESTIMATE!**

When using an ATV/UTV as a transport vehicle, consult the operator's manual for ballast and weight distribution information.

Tractors and UTVs must be equipped with a Rollover Protective Structure (ROPS) or ROPS cab and seat belt. Keep the seat belt securely fastened. Falling off the power unit can result in death from being run over or crushed. Keep the foldable ROPS system in the "locked up" position at all times.

Always comply with all state and local lighting and marking requirements.

DO NOT transport people or livestock in the dump trailer. There is no safe place for any riders.

DO NOT operate or transport equipment while under the influence of alcohol or drugs.

Always be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges and intersections. Watch for traffic when crossing roadways.

Operation

Always stop the power unit, set the parking brake, shut off the engine, and remove the key before dismounting the power unit. Never leave equipment unattended while the power unit engine is running.

DO NOT transport people or livestock in the dump trailer. There is no safe place for any riders.

DO NOT allow bystanders in the area when operating, attaching, removing, assembling, or servicing equipment.

Never operate the power unit and the dump trailer under trees with low-hanging limbs. Operators can be knocked off the power unit and run over by the power unit or dump trailer.

Stop the power unit and dump the trailer immediately upon striking an obstruction. Turn the power unit engine off, set the parking brake, remove the key, and inspect or repair any damage before resuming operation.

Stay alert for uneven terrain, holes, rocks, roots, and other hidden hazards. Keep away from drop-offs and dangers that could cause rollover. Use extreme care and maintain minimum ground speed when transporting or operating on hillsides, over rough ground and when operating close to ditches or fences. Be careful and slow down when turning sharp corners and changing direction on slopes. Do not start or stop suddenly on slopes. Avoid operation on steep slopes.

When using a tractor as a transport vehicle, a minimum of 20% of tractor and equipment weight must be on the tractor's front wheels when implements are in transport position. Without this weight, the tractor could tip over, causing personal injury or death. The weight may be attained with a loader, front wheel weights, ballast in tires or front tractor weights. Weigh the tractor and equipment. **DO NOT ESTIMATE!**

When using an ATV/UTV as a transport vehicle, consult the operator's manual for ballast and weight distribution information.

Tractors and UTVs must be equipped with a Rollover Protective Structure (ROPS) or ROPS cab and seat belt. Keep the seat belt securely fastened. Falling off the power unit can result in death from being run over or crushed. Keep the foldable ROPS system in the "locked up" position at all times.

DO NOT operate or transport equipment while under the influence of alcohol or drugs.

SAFETY GUIDELINES

Operation Cont.

Always sit in the power unit seat when operating controls or starting the power unit engine. Securely fasten seat belt if equipped, place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting the power unit engine.

Keep hands, feet, hair, and clothing away from equipment while the engine is running. Stay clear of all moving parts.

Operate only in daylight or satisfactory artificial light.

Always comply with all state and local lighting and marking requirements.

Look down to the rear and ensure the area is clear before operating in reverse.

Stand clear of the dump trailer tailgate during dumping to avoid being injured.

Leak down or failure of mechanical or hydraulic system can cause equipment to lower.

Maintenance

Good maintenance practices are the owner's responsibility. Poor maintenance practices can lead to severe injury or damage to the equipment.

Keep the service area clean and dry.

Be sure electrical outlets and tools are properly grounded.

Use adequate light for the job at hand.

Keep a fire extinguisher and first aid kit readily accessible while performing maintenance on this equipment.

Keep all persons away from the operator control area while performing adjustments, service, or maintenance.

Make sure the maintenance area is well-ventilated. Never operate the power unit in a closed building. Exhaust fumes may cause asphyxiation.

DO NOT climb or walk on dump trailer frame.

Disconnect the dump trailer from the power unit before performing any service or maintenance. Turn the power unit engine off, set the parking brake, remove the key, and ensure all movement of equipment components has stopped before approaching for service.

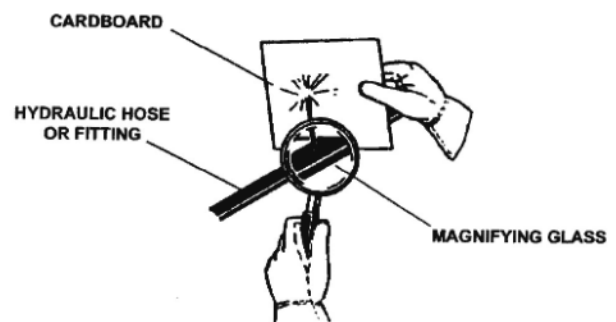
Never go underneath equipment. Never place any part of the body underneath the equipment or between movable parts. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly, causing severe injury or death. Service work does not require going underneath.

Always wear tight, belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, ears, and head; wear a respirator or filter mask where appropriate.

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your power unit operator's manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected hydraulic leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities. If injured by injected hydraulic fluid, see a doctor at once. If the doctor is not familiar with this type of injury, ask them to research it immediately to determine proper treatment.

Wear safety glasses, protective clothing, and use a piece of cardboard or wood when searching for hydraulic leaks. **DO NOT USE YOUR HANDS! SEE ILLUSTRATION BELOW.**



Periodically tighten all bolts, nuts and screws and check that all pins are properly installed to ensure the unit is in safe condition.

After servicing, be sure all tools, parts, and service equipment are removed from the dump trailer.

(Continued on next page.)

SAFETY GUIDELINES

Maintenance Cont.

DO NOT allow debris, grease, or oil to build up on the dump trailer or trailer wheels.

Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts, purchased from an authorized dealer, must be used to restore your equipment to its original specifications.

DO NOT modify, alter, or permit anyone else to modify or alter the equipment or its components in any way other than what is instructed in this operator's manual. The manufacturer will not be responsible for injuries or damage caused by using unapproved parts and/or accessories.

Storage

Keep children and bystanders away from the storage area.

DO NOT park equipment where it can be exposed to direct contact with livestock for long periods. Trailer damage and livestock injury could result.

Store the unit on a hard, dry, level surface, sheltered from atmospheric agents. Use wheel chocks to prevent movement.

Clean all debris from the dump trailer.

Follow the operator's manual instructions for storage.

Always use a power unit to position the dump trailer for storage. Never attempt to move the equipment by hand. Before detaching the dump trailer from the power unit:

- Lower all raised components
- Set the power unit parking brake and stop the engine
- Remove key and unfasten seat belt (if equipped)

Equipment Safety Guidelines

The safety of the operator and bystanders is one of the main concerns in design and development. However, accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. Operators and others working with them can prevent many accidents by observing the following precautions.

- Replace any safety label that is illegible or missing. The location of such safety signs is indicated in this manual.
- **DO NOT** modify the equipment in any way. Unauthorized modification could result in severe injury or death and may impair the function and life of the equipment.

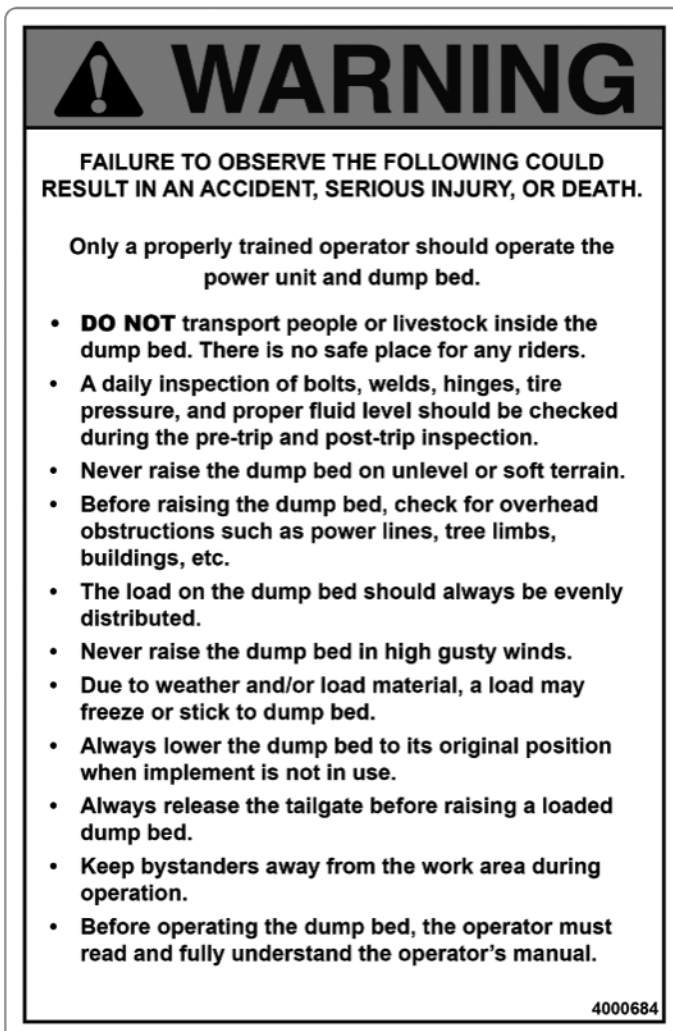
- Never exceed the limits of a piece of machinery. If its ability to do a job or to do so safely is in question, **DON'T TRY IT!**
- Never use alcoholic beverages or drugs that can hinder alertness or coordination while operating this equipment. Operators should consult their doctor about operating this machine while taking prescription medications.
- Under no circumstances should children under the age of 18 be allowed to operate this equipment. Only allow persons to operate or assemble this unit once they have read this manual and have developed a thorough understanding of the safety precautions and how it works. Review the safety instructions with all users annually.
- This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible, properly trained and physically able person familiar with the dump trailer and power unit operation. If older persons are assisting with work, their physical limitations must be recognized and accommodated.
- Tractors and UTVs must be equipped with a Rollover Protective Structure (ROPS) or ROPS cab and seat belt. Keep the seat belt securely fastened. Keep the foldable ROPS system in the "locked up" position at all times.
- In addition to the design and the confirmation of this implement, including safety labels and safety equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of the machine. Refer also to safety messages and operation instructions in each of the appropriate sections of the power unit and implement manuals. Heed the safety signs affixed to both the power unit and the implement.

SAFETY AND INSTRUCTION LABELS

⚠ ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
Replace immediately if damaged!

The 1.5 Ton Hydraulic Dump Trailer comes equipped with all safety labels in place. These safety labels are designed to help users safely operate your equipment. They inform users about possible hazards associated with the normal operation or foreseeable misuse of the product and how to properly avoid those hazards to prevent physical injury or death. Users are required to read and follow their directions.

1. Keep all safety labels clean and legible.
2. Replace all damaged or missing labels.
3. New equipment installed during repairs may require replacement safety labels to be affixed to the replaced part, if missing.
4. Contact an authorized dealer to order replacement labels.
5. Refer to this section for proper label placement. When installing new labels:
 - a. Clean placement surface with soapy water or surface cleaning solution and allow to dry.
 - b. Peel backing from label, carefully center and place label in proper location ensuring no creases or air pockets.
 - c. Press label firmly onto the surface and use a straight edge to smooth the label on the machine for a secure adhesion.



① GENERAL SAFETY (P/N 4000684)



② PINCH POINT (P/N 4000666)



③ MAXIMUM TOW SPEED (P/N 4000685)



④ RED REFLECTOR (P/N FT4003)

SAFETY AND INSTRUCTION LABELS

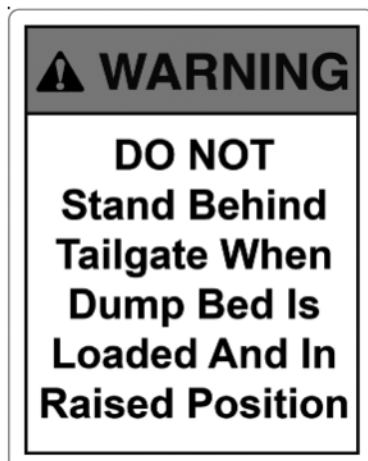
⚠ ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
Replace immediately if damaged!



⑤ HIGH PRESSURE FLUID
(P/N 4000667)



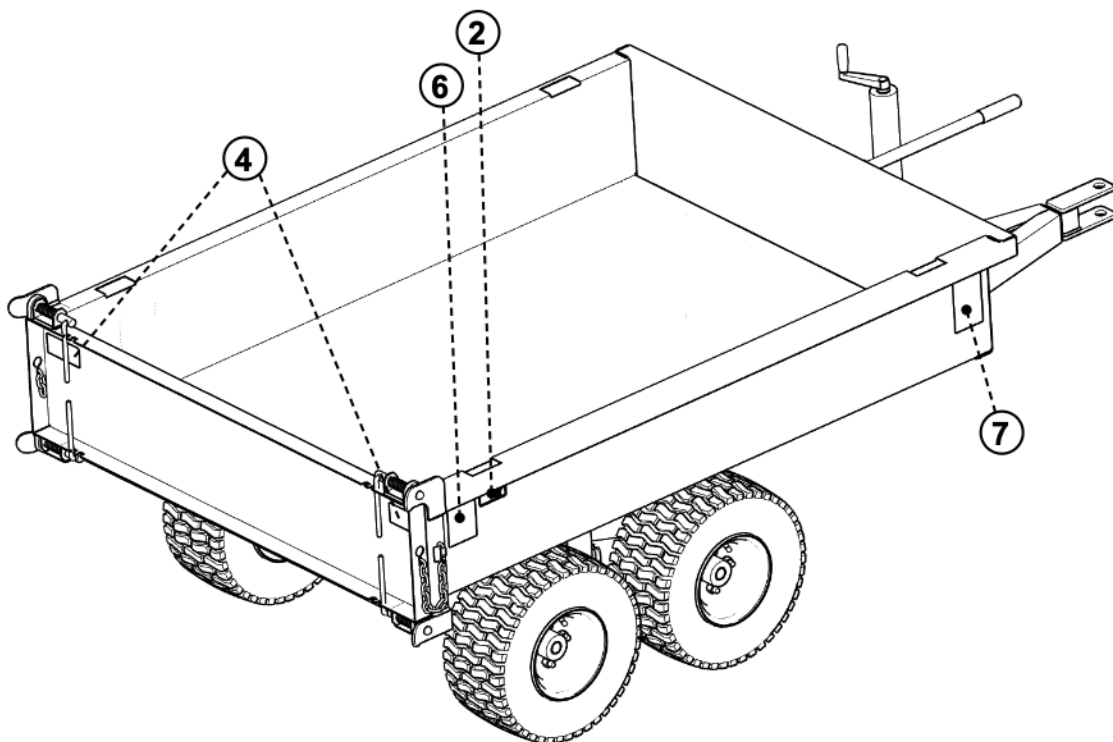
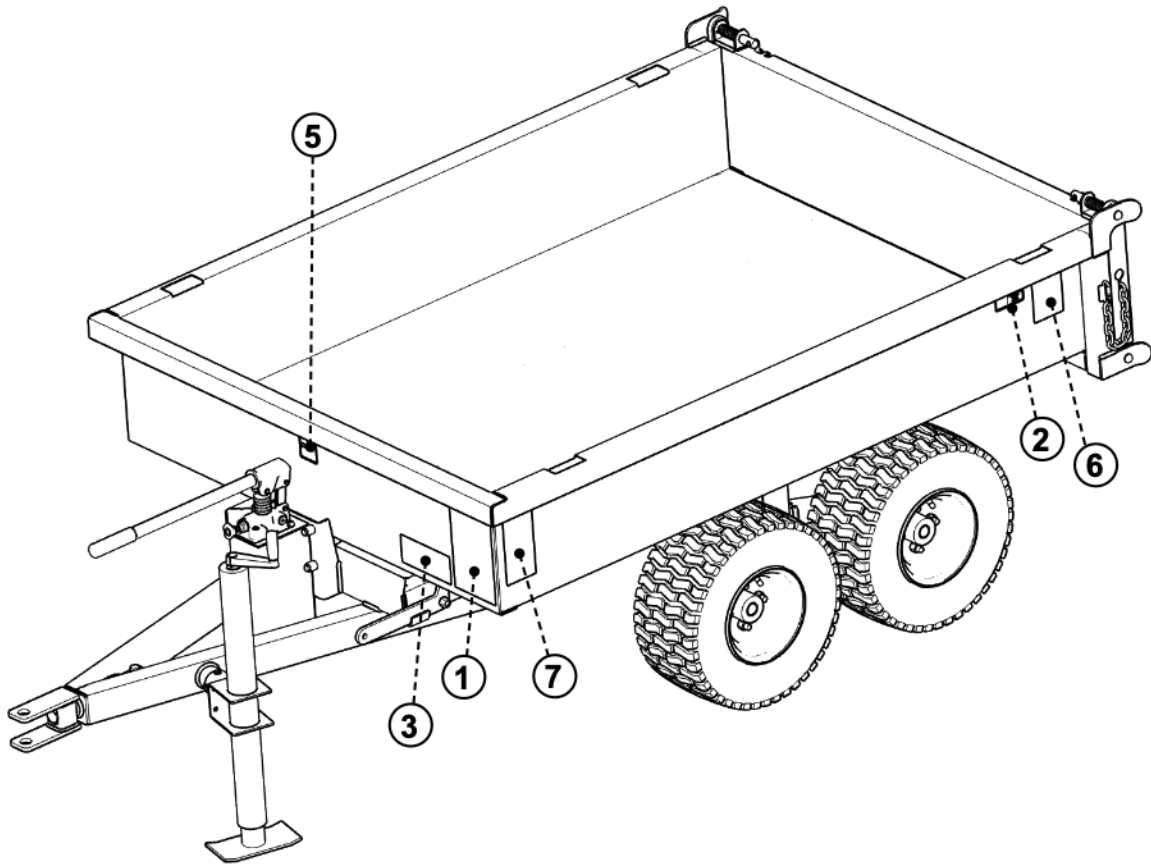
⑦ CRUSH HAZARD
(P/N 4000683)



**⑥ DO NOT STAND BEHIND
TAILGATE** (P/N 4000686)

SAFETY AND INSTRUCTION LABELS

⚠ ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
Replace immediately if damaged!



PRODUCT DESCRIPTION

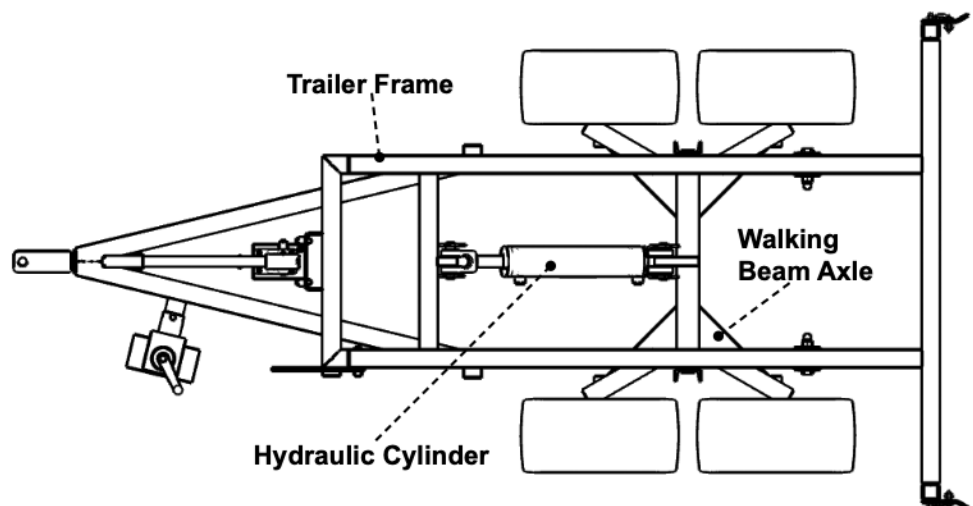
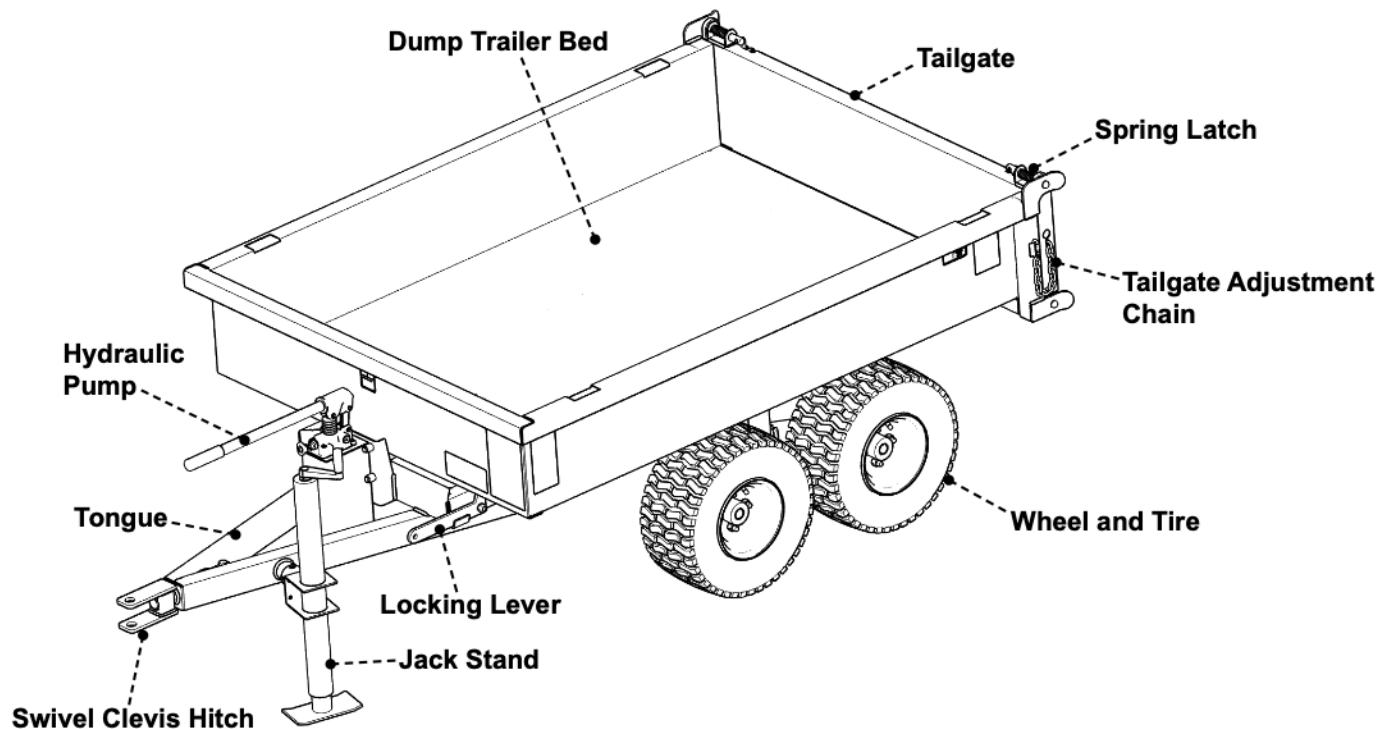
The 1.5 Ton Hydraulic Dump Trailer is intended for hauling debris and spreading materials such as loose gravel, sand, and mulch. It connects to a tractor or ATV/UTV capable of accepting a swivel clevis hitch (standard) or 2" ball coupler (sold separately). Operators may use the double-acting hand pump to raise the dump bed to a maximum 45° dumping angle or couple the included auxiliary hose with their tractor's hydraulic connection.



WARNING

NOT FOR HIGHWAY USE!

Maximum towing speed should not exceed 20 MPH.



NOTE

Top view shown. Dump bed removed for illustration purposes.

ASSEMBLY AND SETUP

The 1.5 Ton Hydraulic Dump Trailer ships fully assembled with the auxiliary tractor hydraulic hose zip-tied to the frame. Remove the auxiliary hose before operating the dump trailer.

CAUTION

Avoid injury! To prevent being run over or crushed, put power unit transmission in PARK and engage parking brake as applicable. Do not stand between the power unit and implement.

WARNING

Avoid serious injury or death! To prevent being run over crushed, consult the power unit operator's manual for proper ballasting and weight distribution instructions. The weight of towed implements may cause unstable driving conditions or cause the power unit to tip over, resulting in serious injury or death by crushing.

Attaching to Power Unit

1. Ensure dump trailer is parked on a level surface and jack stand is engaged with the ground. Place wheel chocks behind tires to prevent movement.
2. Slowly back the power unit towards dump trailer until power unit hitch or drawbar aligns with dump trailer hitch.
3. Engage power unit parking brake and/or place transmission in PARK.
4. Shut off the power unit engine and remove key.
5. Connect dump trailer to power unit.
 - a. Swivel Clevis Hitch (standard)
 - i. Raise or lower jack stand to align swivel clevis hitch with power unit hitch.
 - ii. Connect dump trailer swivel clevis hitch to power unit hitch or drawbar and secure with pin (see **Figure 1**).
 - b. 2" Ball Coupler (**P/N 9001390**, sold separate)
 - i. Raise or lower jack stand so coupler is slightly and directly above ball hitch on power unit.
 - ii. Raise coupler lock handle to "unlocked" position.
 - iii. Use jack stand to lower coupler onto ball hitch. Stop when the weight of the trailer is supported entirely by the ball.

- iv. Lower coupler lock handle to "locked" position.
6. Raise jack stand and fold it away against trailer tongue.
7. Review the **Owner/Operator Pre-Operation Checklist** on p. 14 before transporting or using dump trailer. Be sure to remove wheel chocks before driving forward.



Figure 1 - Connect swivel clevis hitch to power unit and secure with pin.

Connecting to Tractor Hydraulics

When using a tractor as a power unit, operators may utilize the included auxiliary hydraulic hose to raise and lower dump trailer bed instead of using the hand pump.

WARNING

Avoid serious injury or death! High-pressure fluid hazard. Relieve pressure on system before repairing or adjusting or disconnecting. Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.

1. Ensure the dump bed is lowered and resting on dump trailer frame.
2. Ensure tractor engine is turned off, parking brake is set, and key is removed from ignition.
3. Disconnect coupler connecting cylinder hose to hand pump.
4. Connect auxiliary tractor hydraulic hose to cylinder hose.
5. Review tractor operator's manual for instructions on connecting hydraulic hoses, then connect the auxiliary tractor hydraulic hose to tractor.

OPERATING INSTRUCTIONS

In addition to the design and configuration of this equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgment, and proper training of personnel involved in operation, transport, maintenance and storage.

The operator is responsible for the safe operation of this equipment and must be properly trained. Operators should be familiar with the equipment, the power unit, and all safety practices before starting operation. Read the safety rules and safety labels on **page 4 through page 11**.

The 1.5 Ton Hydraulic Dump Trailer has been carefully designed for hauling debris and spreading materials such as loose gravel, sand, and mulch. Operators should raise the dump bed using only the attached hydraulic hand pump or tractor hydraulics.

Owner/Operator Pre-Operation Checklist

- ___ Review and follow all safety rules and safety label instructions (**pp. 4-11**)
- ___ Check that all safety labels are installed and in good condition. Replace if damaged (**pp. 9-11**)
- ___ Ensure dump trailer is properly and securely attached to power unit (**p.13**)
- ___ Check hydraulic fluid level in hand pump. Add hydraulic fluid if needed (**p. 21**).
- ___ Check that all hardware is properly installed and secured.
- ___ Inspect dump trailer for signs of wear or damage and replace parts if necessary.
- ___ Ensure tires are inflated to rated PSI listed on tire.
- ___ Ensure tailgate is shut and latched.

Loading the Dump Trailer



WARNING

Avoid serious injury or death!

- **DO NOT transport people or livestock in the dump trailer. There is no safe place for any riders.**
- **DO NOT exceed the weight rating of the dump trailer or towing capacity of the power unit. Excessive weight may cause equipment failure.**
- **Ensure the load is distributed evenly in the dump trailer bed. An uneven load may cause unstable driving conditions.**



CAUTION

Avoid injury!

- **Keep bystanders away from the work area when loading the dump trailer.**
- **DO NOT stack debris or materials higher than the sides of the dump trailer bed. Materials that are stacked too high may fall off the dump trailer during transport, causing damage to the equipment or injury to bystanders.**

Transporting the Dump Trailer



WARNING

NOT FOR HIGHWAY USE!

Maximum towing speed should not exceed 20 MPH.

1. Assess the work area before operation to ensure there are no hazards or obstructions that may cause damage to the equipment.
2. Ensure all bystanders and livestock are clear of the work area.
3. Ensure dump bed locking lever is engaged with the dump trailer frame to prevent movement of the dump bed during transport.
4. Ensure jack stand is raised and folded away against dump trailer frame.
5. Operators should fasten power unit seatbelt (if equipped) once positioned in driver's seat.
6. Start power unit engine, disengage parking brake and slowly drive forward.

OPERATING INSTRUCTIONS

Operating the Tailgate

WARNING

Avoid serious injury or death! DO NOT open tailgate with dump bed in raised position. Debris falling from dump bed can cause severe injury or death by crushing. Lower dump bed to level position before releasing tailgate.

Dumping

1. Pull top spring-pin handles inward towards the center of the tailgate.

NOTE

Operators can simultaneously release the left and right handles or release them one at a time.

2. Lift spring-pin handles and continue pulling inward secure the handles in the "unlock" position (see Figure 2a-b).

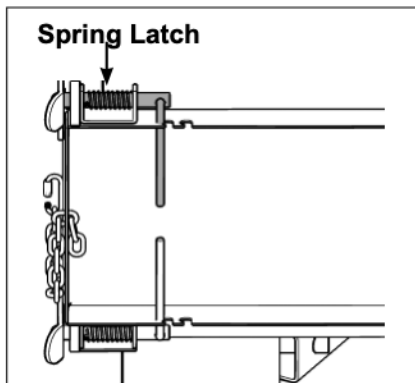


Figure 2a - Top left spring latch in "locked" position.

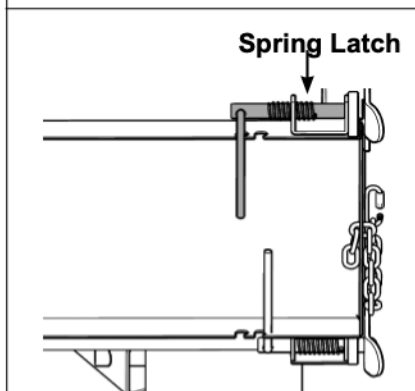


Figure 2b - Top right spring latch in "unlocked" position.

3. Lower tailgate and adjust tailgate chains until tailgate sits level with dump bed.

IMPORTANT

Avoid Damage! Operating dump bed with tailgate chains removed (tailgate hanging down) or with tailgate not fully level with dump bed can cause damage to equipment.

Spreading

1. Pull bottom spring-pin handles inward towards center of tailgate.
2. Lift spring-pin handles and continue pulling inward, then secure handles in the "unlock" position.

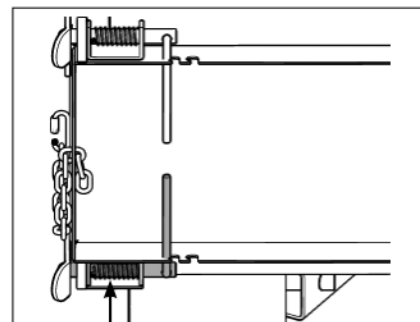


Figure 3a - Bottom left spring latch in "locked" position.

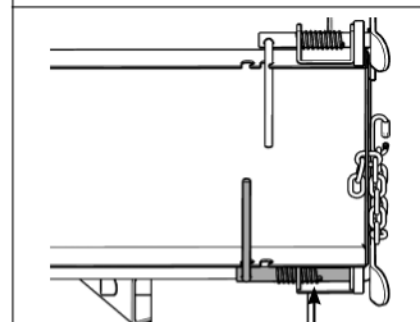


Figure 2b - Bottom right spring latch in "unlocked" position.

3. Open tailgate and adjust tailgate chains to desired slack.

NOTE

The opening width needed for optimal spreading will vary based on material size, material density and power unit speed. Adjustments may be necessary to achieve desired results.

OPERATING INSTRUCTIONS

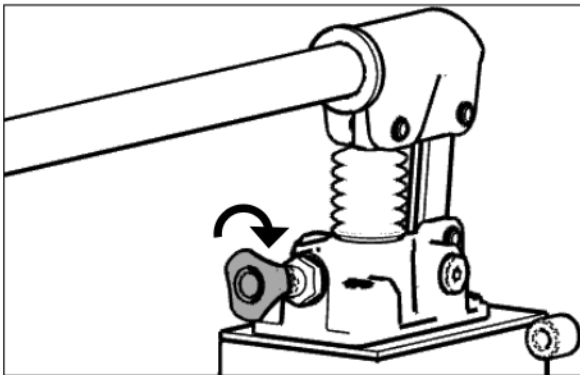
Operating Hydraulic Hand Pump

WARNING

Avoid serious injury or death! Check hydraulic fluid level before operating hand pump. Insufficient hydraulic fluid may affect hand pump efficiency or cause mechanical failure of the dump bed, leading to severe injury or death by crushing.

Raising the Dump Bed

1. Turn hydraulic control valve clockwise to ensure valve is closed and able to build pressure.



Turn control valve clockwise to close.

2. Use one hand to lift dump bed locking lever while simultaneously operating hydraulic hand pump with other hand. Release locking lever only after dump bed begins to raise and is clear of lever.



IMPORTANT

Avoid Damage! Raising dump bed with locking lever engaged will cause damage to the equipment.

WARNING

Avoid serious injury or death!

- Operators who begin raising the dump bed without fully disengaging locking lever should lower dump bed to a level position and start the process again.
- Pressure in the hydraulic hose and cylinder can cause sudden upward movement of dump bed, resulting in serious injury.

3. Continue to operate hydraulic hand pump until dump bed raises to desired height.

NOTE

Maximum dump angle is 45°.

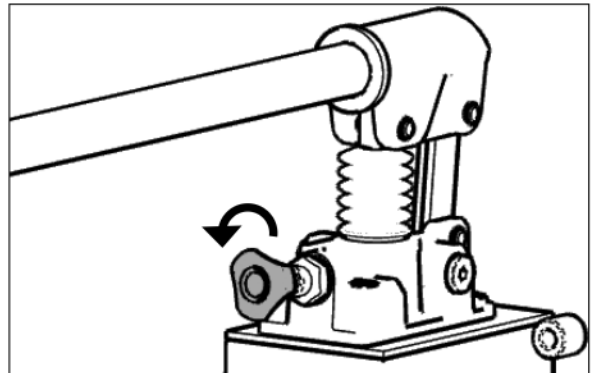
Lowering the Dump Bed

WARNING

Avoid serious injury or death!

- Ensure dump bed is empty before lowering. Debris left in dump bed can affect drop rate and cause dump bed to lower faster than expected.
- Never place any part of the body underneath equipment or between movable parts. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop unexpectedly, causing severe injury or death.

1. Turn hydraulic control valve counterclockwise to release pressure from cylinder.



Turn control valve counterclockwise to open.

2. Allow dump bed to lower to dump trailer frame.
3. Push down on dump bed once lowered entirely to ensure it engages with locking lever.

OPERATING INSTRUCTIONS

Raise/Lower Dump Bed with Tractor Hydraulics

Raising the Dump Bed

1. Review **Connecting to Tractor Hydraulics** procedure on p. 13.
2. Review tractor operator's manual for instructions on operating hydraulic control levers.
3. Tie a rope to dump bed locking lever. The rope should be long enough to reach tractor operator control seat.
4. Pull rope to disengage locking lever, then operate tractor hydraulic controls to raise dump bed to desired height.

NOTE

Maximum dump angle is 45°.

IMPORTANT

Avoid Damage! Raising dump bed with locking lever engaged will cause damage to the equipment.



WARNING

Avoid serious injury or death!

- Operators who begin raising the dump bed without fully disengaging locking lever should lower dump bed to a level position and start the process again.
- **DO NOT** release locking lever with dump bed partially raised. Pressure in the hydraulic hose and cylinder can cause sudden upward movement of dump bed and may cause serious injury.

Lowering the Dump Bed

1. Operate tractor hydraulic controls to lower dump bed to dump trailer frame. Ensure dump bed engages with locking lever.



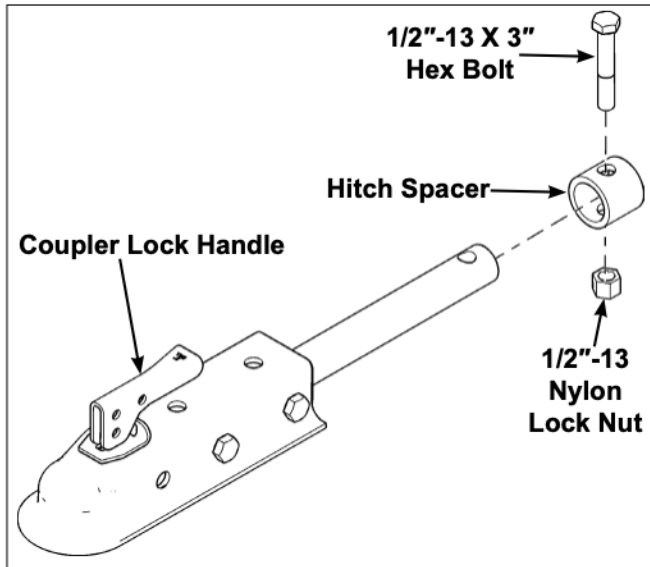
WARNING

Avoid serious injury or death!

- **Ensure dump bed is empty before lowering.** Debris left in dump bed can affect drop rate and cause dump bed to lower faster than expected.
- **If checking dump bed locking lever engagement requires operators to leave tractor driver's seat:**
 - Set tractor parking brake and/or put transmission in PARK.
 - Turn off tractor engine and remove key.
- **Never place any part of the body underneath equipment or between movable parts.** Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop unexpectedly, causing severe injury or death.

ACCESSORIES AND ATTACHMENTS

The 1.5 Ton Hydraulic Dump Trailer ships standard with a swivel clevis hitch. A 2" Ball Coupler (P/N 9001390) is available to purchase or order from authorized dealers.



Optional ball coupler includes spacer and hardware.

Installing 2" Ball Coupler

1. Use a 3/4" wrench to remove the 1/2"-13 nylon lock nut and 1/2"-13 x 3" hex bolt securing hitch spacer to swivel clevis hitch.
2. Remove spacer, then remove swivel clevis hitch from dump trailer tongue.
3. Store spacer and hardware with swivel clevis hitch so all components are readily available for installation if needed.
4. Insert 2" Ball Coupler into dump trailer tongue (see Figure 3 below).
5. Secure Ball Coupler with hitch spacer, 1/2"-13 x 3" hex bolt, and 1/2"-13 hex nut. Tighten hardware to correct torque specifications (see p. 28).

IMPORTANT

Avoid Damage! Do not install the Ball Coupler or Swivel Clevis Hitch without the hitch spacer. Doing so allows for unnecessary hitch movement that may damage the equipment.

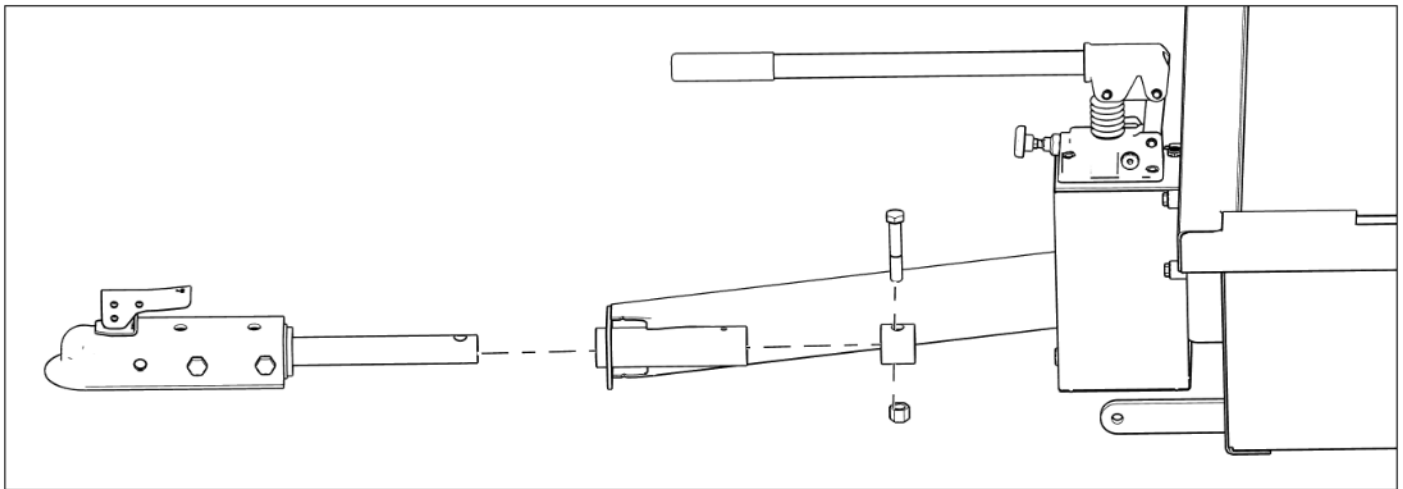


Figure 3 - Insert Ball Coupler into Dump Trailer tongue and secure with spacer and hardware. Jack stand and portion of tongue removed for illustration purposes.

TROUBLESHOOTING

Problem	Possible Cause	Possible Remedy
Dump bed will not raise when using hand pump.	Insufficient hydraulic fluid in hand pump.	Check hydraulic fluid reservoir. Add fluid if needed. See p. 21 .
Dump bed will not raise when using auxiliary hydraulic connection with tractor.	Poor connection between hydraulic hose and tractor.	Check hydraulic hose fittings. Review tractor operator's manual for connecting hydraulic hoses.
Dump bed will not lower completely or lowers extremely slowly.	Air in hydraulic hose.	Perform dump bed raising and lowering procedures until performance improves. See p. 17 . NOTE: Dump bed must be empty.
Materials will not clear dump trailer when spreading.	Materials are too compacted or too fine to spread.	Use a shovel or rake to loosen and break up the compacted material.
		Use coarser material.
	Dump trailer not raised high enough.	Increase dumping angle. Maximum angle is 45°.
Power unit cannot pull dump trailer.	Load may be too heavy.	Review power unit operator's manual for tow capacity ratings and proper ballast and weight distribution instructions.
		Remove materials from the dump trailer and transport multiple, smaller loads.
Dump trailer sways side to side during transport.	Load is uneven.	Ensure load is distributed evenly in the dump bed.

MAINTENANCE AND STORAGE

Routine inspections and maintenance help ensure the 1.5 Ton Hydraulic Dump Trailer stays in optimal operating condition and helps prevent costly downtime and repairs.

The information in this section is written for operators possessing basic mechanical skills. Contact an authorized dealer if assistance is needed. To avoid injury or damage to equipment, operators should read and follow the safety information in this manual.

WARNING

Avoid serious injury or death!

- **Never service the dump trailer while it is attached to a power unit.**
- **Use only genuine replacement parts available from authorized dealers. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation.**
- **Never go underneath equipment. Never place any part of the body underneath the equipment or between movable parts.**

CAUTION

Avoid injury!

- **Keep bystanders away from the work area when performing maintenance.**
- **Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head: and respirator or filter mask where appropriate.**

Maintenance Schedule

Before Each Use

1. Check that all safety labels are installed and in good condition. Replace if damaged (**pp. 9-11**).
2. Check hydraulic fluid level in hand pump. Add fluid if needed (**pp. 21**).
3. Check that all hardware is properly installed and secured.
4. Inspect dump trailer for signs of wear or damage and replace parts if necessary.
5. Ensure tires are inflated to rated PSI listed on tire.

Maintenance Schedule

After Each Use

1. Clean large debris such as dirt clumps, grass, or other residue from the dump trailer.
2. Remove the remainder using a low-pressure water spray.
 - a. Be careful when spraying near scratched or torn safety labels or near edges of labels as water spray can peel label off surface.
 - b. Be careful when spraying near chipped or scratched paint as water spray can lift paint.
 - c. If pressure washer is used, follow the advice of the pressure washer manufacturer.
3. Inspect the dump trailer for worn or damaged parts. Replace parts if necessary.
4. Sand down scratches and the edges of areas of missing paint and coat with spray paint of matching color (purchase from an authorized dealer).
5. Replace any safety labels that are missing or not readable. Replacement safety labels are available from authorized dealers. See **Safety and Instruction Labels** section on **pp. 9-11** for location drawings.

MAINTENANCE AND STORAGE

Adding Hydraulic Fluid

The hydraulic hand pump should contain enough fluid to raise the dump bed to its maximum dumping angle (45°). Check hydraulic fluid level before each use and add when dump bed does not raise fully.

NOTE

Manufacturer recommends using ISO 46 hydraulic fluid.
Maximum fluid capacity is 3 liters.

! WARNING

Avoid serious injury or death!

- **DO NOT** overfill hydraulic fluid reservoir.
- **Wear safety glasses and protective clothing** when handling hydraulic fluid.
- **Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death.**
- **Seek immediate medical attention if hydraulic fluid makes contact with skin.**

IMPORTANT

Avoid damage!

- **Always use the same brand and grade of hydraulic fluid.**
- **Mixing hydraulic fluid brands and grades can affect dump bed performance and may damage equipment.**

1. Remove vent plug located near top left corner of hydraulic hand pump (see **Figure 4**).
2. Fill reservoir with hydraulic fluid, then replace vent plug.

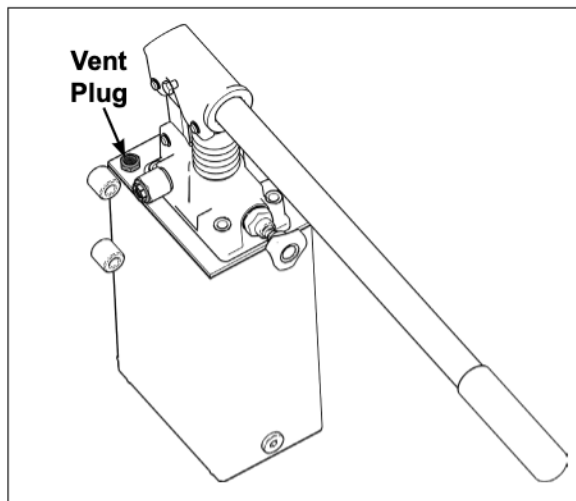


Figure 4 - Remove vent plug to add hydraulic fluid.

Replacing Hydraulic Hand Pump

! WARNING

Avoid serious injury or death!

- **Wear safety glasses and protective clothing** when handling hydraulic hand pump and hydraulic hoses. Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death.
- **Seek immediate medical attention if hydraulic fluid makes contact with skin.**

IMPORTANT

Avoid damage!

- **Replacement hydraulic hand pump ships without hydraulic fluid.**
- **Fill pump with hydraulic fluid before first use.**

1. Disconnect hydraulic hose from hand pump.
2. Use a 1/2" wrench to remove all four 5/16" nylon lock nuts and 5/16" x 1-1/2" Gr. 5 hex bolts securing hydraulic hand pump to dump trailer frame (see **Figure 5**). Retain hardware for new part installation.
3. Remove old hydraulic hand pump and replace with new unit (**P/N 9001392**).
4. Secure hydraulic hand pump to dump trailer frame using hardware retained from Step 2. Tighten all hardware to correct torque specifications (see **p. 28**).
5. Connect hydraulic hose to new hand pump.
6. Fill pump with hydraulic fluid.

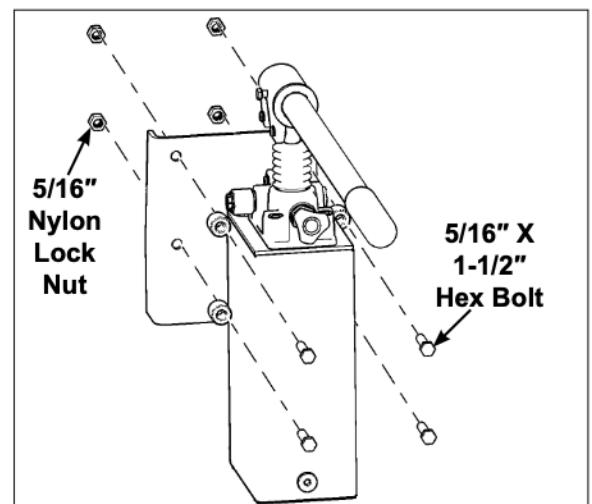


Figure 5 - Remove hex bolts and nylon lock nuts to replace hydraulic hand pump.

MAINTENANCE AND STORAGE

Storing the Dump Trailer

CAUTION

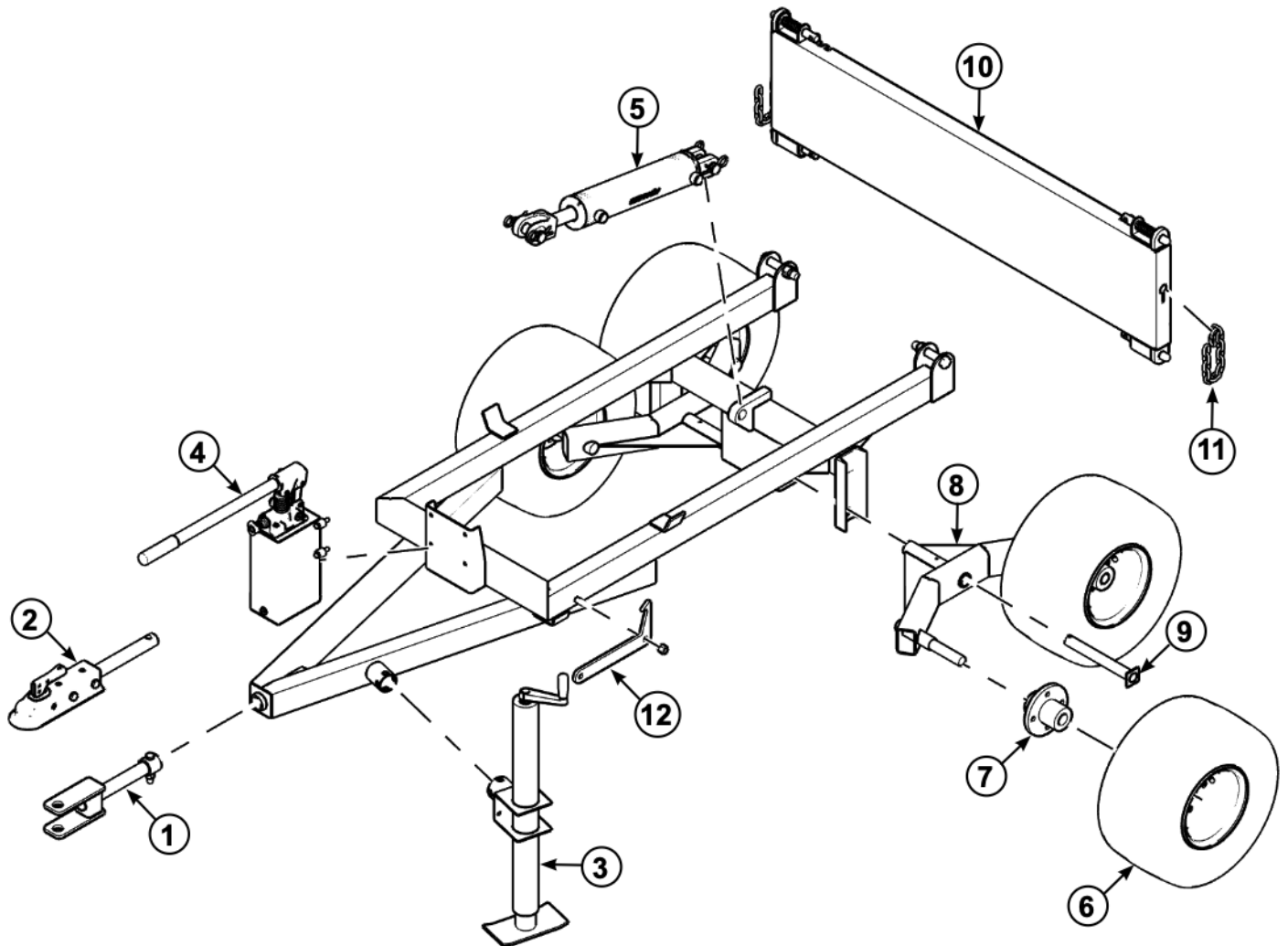
Avoid injury!

- Always use a tractor, ATV, or UTV to position the dump trailer for storage. **DO NOT** move the equipment by hand.
 - Store dump trailer in a secure area, shielded from atmospheric agents and away from children, bystanders, and livestock.
-
1. Clean, inspect, and make necessary repairs to the dump trailer when storing for long periods.
 2. Park dump trailer on a dry, level surface.
 3. Lower jack stand so it engages with the ground.
 4. Place wheel chocks behind tires to prevent movement.

SPECIFICATIONS

Overall Dimensions	
Length	100.5"
Width	54.5"
Height	33.5"
Dump Bed Dimensions	
Length	70"
Width	50"
Height	12"
Construction	
Bed	12 Ga. Formed Steel Sides
Frame	1/8" Rectangular Steel Tubing, 2" x 3"
Weight, Approx.	650 lb
Hitch	Swivel Clevis (standard) 2" Ball Coupler (optional)
Tires	18 x 8.5 x 8 4-ply Turf Style
Axle	Walking Beam Tandem
Capacity	1.5 Ton / 24 Cu. Ft.
Dumping Mechanism	Double Acting Hydraulic Hand Pump CUT Hydraulic Remote Hookup (hose included)
Cylinder	Single Action 3" x 12"
Dumping Angle, Max.	45°

PARTS LIST



NOTE

Dump bed is not serviceable and has been removed for illustration purposes.

PARTS LIST

ITEM#	PART#	QTY ON UNIT	DESCRIPTION
1	9001389	1	Swivel Clevis Hitch (includes spacer and hardware)
2	9001390	(1) Optional	2" Ball Coupler (includes spacer and hardware)
3	9001391	1	Jack Stand
4	9001392	1	Hydraulic Hand Pump
5	9001393	1	Hydraulic Cylinder
6	9001394	4	Tire and Wheel
7	9001395	4	Wheel Hub
8	9001396	2	Walking Beam
9	9001397	2	Pivot Pin
10	9001398	1	Tailgate
11	9001399	2	Tailgate Chain
12	9001400	1	Dump Bed Locking Lever
Not Shown	9001401	1	Cylinder Hydraulic Hose
Not Shown	9001402	1	Hand Pump Hydraulic Hose
Not Shown	9001403	(1) Optional	Tractor Hydraulic Hose

WARRANTY

Manufacturer's Limited Warranty

Manufacturer warrants to the original purchaser that the purchased product is free from defects in material and workmanship for a period of one (1) year commencing on the date of original purchase, as evidenced by the original receipt, and will, at its option, repair, replace, or issue credit for any product or part found to be defective.

This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial or industrial use, neglect, improper maintenance, alteration or accident, or which has been used for a purpose for which the product was not designed. Damage resulting from the installation or use of any part, accessory, or attachment not approved by manufacturer, for use with the product covered by the Operator's Manual, shall void the warranty as to any resulting damage.

This limited warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this warranty does not transfer to the third party in any manner.

Warranty Disclaimer

This limited warranty is in lieu of, and manufacturer disclaims and excludes any express and implied warranties with respect to the product including, without limitation, merchantability and fitness for a particular purpose. No other express warranty, whether written or oral, given by any person or entity, including a retailer, with respect to any product, shall bind manufacturer.

Manufacturer's exclusive liability for breach of the limited warranty, as set forth above, on the product shall be to repair or replace the product within the warranty period in accordance with the terms of this limited warranty. The choice of remedy shall belong solely to manufacturer. In no event shall manufacturer be liable for any loss or damages of any other kind, whether direct, incidental, consequential including lost profits, exemplary, special or otherwise, including without limitation, expenses incurred for substitute or replacement product or for rental expenses to temporarily replace a warranted product.

Under no circumstance shall recovery, of any kind, be greater than the amount of the purchase price of the product purchased. Customer assumes all risk and liability for loss, damage, or injury to customer or customer's property and/or the property of others arising out of the misuse or inability to use the product.

Legal Rights

This limited warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Some states do not allow any limitation on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

WARRANTY

Additional Information

Contact your authorized dealer for complete warranty information and assistance with warranty claims. Retain original sales receipt, and record the 1.5 Ton Hydraulic Dump Trailer model number, serial number, and the date of purchase in the spaces provided below. This information will be helpful to the dealer if parts or service are required.

Warranty Claim Information

Dealer Name

Dealer Address

Dealer Phone

Dealer Email

Purchase Date

Model Number

Serial Number/UPC

BOLT TORQUE CHART

Proper torque for American fasteners used on manufactured implement.
Recommended Torque in Foot Pounds (Newton Meters).*

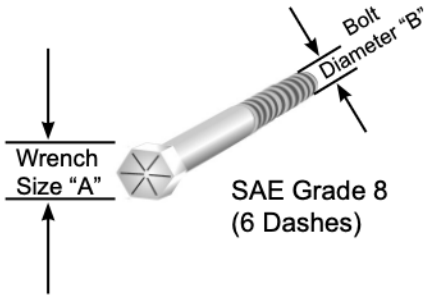
AMERICAN Bolt Head Markings



SAE Grade 2
(No Dashes)



SAE Grade 5
(3 Dashes)



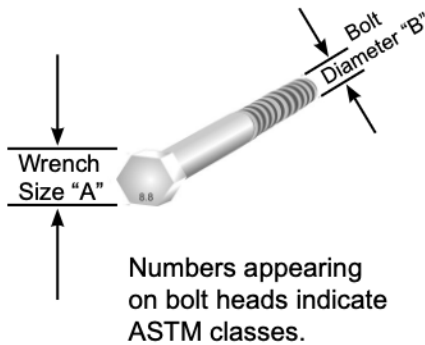
SAE Grade 8
(6 Dashes)

WRENCH SIZE(IN.) "A"	BOLT DIAMETER (IN.) "B" AND THREAD SIZE	SAE GRADE 2	SAE GRADE 5	SAE GRADE 8
7/16	1/4 -20 UNC	6 (7)	8 (11)	12 (16)
7/16	1/4 - 24 UNF	6 (8)	10 (13)	14 (18)
1/2	5/16 -18 UNC	11 (15)	17 (23)	25 (33)
1/2	5/16 - 24 UNF	13 (17)	19 (26)	27 (37)
9/16	3/8 - 16 UNC	20 (27)	31 (42)	44 (60)
9/16	3/8 -24 UNF	23 (31)	35 (47)	49 (66)
5/8	7/16 -14 UNC	32 (43)	49 (66)	70 (95)
5/8	7/16 - 20 UNF	36 (49)	55 (75)	78 (106)
3/4	1/2 - 13 UNC	49 (66)	76 (103)	106 (144)
3/4	1/2 - 20 UNF	55 (75)	85 (115)	120 (163)
7/8	9/16 -12 UNC	70 (95)	109 (148)	153 (207)
7/8	9/16 - 18 UNF	79 (107)	122 (165)	172 (233)
15/16	5/8 - 11 UNC	97 (131)	150 (203)	212 (287)
15/16	5/8 - 18 UNF	110 (149)	170 (230)	240 (325)
1-1/8	3/4 - 10 UNC	144(195)	266 (360)	376 (509)
1-1/8	3/4 - 16 UNF	192 (260)	297 (406)	420 (569)
1-5/16	7/8 - 9 UNC	166 (225)	430 (583)	606 (821)
1-5/16	7/8 - 14 UNF	184 (249)	474 (642)	668 (905)
1-1/2	1-8 UNC	250 (339)	644 (873)	909 (1232)
1-1/2	1 - 12 UNF	274 (371)	705 (955)	995 (1348)
1-1/2	1-14 UNF	280 (379)	721 (977)	1019 (1381)
1-11/16	1-1/8 - 7 UNC	354 (480)	795 (1077)	1288 (1745)
1-11/16	1-1/8 -12 UNF	397 (538)	890 (1206)	1444 (1957)
1-7/8	1-1/4 - 7 UNC	500 (678)	1120 (1518)	1817 (2462)
1-7/8	1-1/4 - 12 UNF	553 (749)	1241 (1682)	2013 (2728)
2-1/16	1-3/8 - 6 UNC	655 (887)	1470 (1992)	2382 (3228)
2-1/16	1-3/8 -12 UNF	746 (1011)	1672 (2266)	2712 (3675)
2-1/4	1-1/2 - 6 UNC	870 (1179)	1950 (2642)	3161 (4283)
2-1/4	1-1/2 - 12 UNF	979 (1327)	2194 (2973)	3557 (4820)

BOLT TORQUE CHART

Proper torque for metric fasteners used on manufacturer implement.
Recommended Torque in Foot Pounds (Newton Meters).*

METRIC



*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.

WRENCH SIZE (mm) "A"	BOLT DIA. (mm) "B"	ASTM 4.6	ASTM 8.8	ASTM 9.8	ASTM 10.9
8	5	1.8 (2.4)		5.1 (6.9)	6.5 (8.8)
10	6	3 (4)		8.7 (12)	11.1 (15)
13	8	7.3 (10)		21.1 (29)	27 (37)
16	10	14.5 (20)		42 (57)	53 (72)
18	12	25 (34)	74 (100)	73 (99)	93 (126)
21	14	40 (54)	118 (160)	116 (157)	148 (201)
24	16	62 (84)	167 (226)	181 (245)	230 (312)
30	20	122 (165)	325 (440)		449 (608)
33	22		443 (600)		611 (828)
36	24	211 (286)	563 (763)		778 (1054)
31	27		821 (1112)		138(1542)
46	30	418 (566)	1119 (1516)		1547(2096)

NOTES

NOTES

