

# SWAP HOGG



# OPERATOR MANUAL

[www.SwapHogg.com](http://www.SwapHogg.com)



# Table of Contents

<b>Safety .....</b>	<b>3</b>
<b>Maintenance .....</b>	<b>5</b>
<b>System Overview .....</b>	<b>6</b>
<b>Operation Instructions .....</b>	<b>8</b>
➤ <b>Prop Rod .....</b>	<b>8</b>
➤ <b>Hoist .....</b>	<b>10</b>
➤ <b>Winch .....</b>	<b>11</b>
➤ <b>Loading .....</b>	<b>14</b>
➤ <b>Unloading .....</b>	<b>22</b>
➤ <b>Dumping .....</b>	<b>27</b>
<b>Parts Diagram .....</b>	<b>28</b>
<b>Parts List .....</b>	<b>29</b>
<b>Troubleshooting .....</b>	<b>30</b>
<b>Appendix .....</b>	<b>32</b>
➤ <b>Material Weight Table .....</b>	<b>32</b>
➤ <b>Torque Table .....</b>	<b>33</b>
➤ <b>Lubrication Location Diagram .....</b>	<b>33</b>
➤ <b>Safety Label Images .....</b>	<b>34</b>
➤ <b>Safety Label Locations .....</b>	<b>35</b>
<b>Warranty.....</b>	<b>36</b>



# Safety

\*A copy of this manual is provided with every Swap Hogg and should remain with the Swap Hogg at all times. Information contained within this manual does not cover all maintenance, operating, or repair instructions pertinent to all possible situations.

## Overview to Owner, Operators, and Service Personnel

Carefully read this manual. Learn how to safely operate the Swap Hogg system and how to use the controls properly. **This manual is not a substitute for proper training.** This manual is to be used as a guide to assist trained and authorized personnel to safely operate the Swap Hogg system by illustrating and emphasizing the correct techniques. It is your responsibility to know the specific requirements, governmental regulations, precautions, and work hazards that exist in the operation and maintenance of the Swap Hogg system. You shall make these available and known to all personnel working with and around the Swap Hogg system, so that all of you will take the necessary and required safety precautions. DownEaster is not liable for accidents incurred by the Swap Hogg system because of non-fulfillment from the operator's side of current rules, laws, and regulations. Do not allow anyone to operate the system without proper training and instruction. **Failure to read this manual by anyone who will operate, service, or work around the Swap Hogg system is a misuse of the equipment. Death or serious injury may result from improper use or maintenance of the Swap Hogg system.**

## Follow Safety Instructions

Read all safety messages in this manual and on the Swap Hogg safety labels. Before attempting any procedure in this manual, these safety instructions must be read thoroughly and understood by all workers who have any part in the use or preparation of this equipment. **It is your responsibility to operate and maintain the Swap Hogg system with caution, skill, and good judgement.**



### **THIS SIGN SHOULD ALERT YOU:**

The Society of Automotive Engineers has adopted this SAFETY ALERT SYMBOL to pinpoint characteristics that, if not carefully followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, BE ALERT. Your personal safety and the safety of others is involved.

The purpose of safety symbols is to draw attention to possible dangers. The safety symbols and explanations with them deserve your careful attention. The safety warnings do not by themselves eliminate any danger. The instructions or warnings they give are not substitutes for proper accident prevention procedures.

**⚠ DANGER**

Identifies the most serious hazards.

**⚠ WARNING**

Failure to obey a safety warning can result in injury to yourself and others.

**⚠ CAUTION**

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

# Safety

## General Safety

- Trainees and untrained persons must be under the direct supervision of a qualified individual while operating or working on the Swap Hogg system.
- Never operate any equipment under the adverse influence of drugs, alcohol, medication, or any other substance that may alter your judgment or reaction time.
- Read and understand all DANGER, CAUTION, and WARNING labels.
- Know your vehicle. It is your responsibility to know and understand your vehicle's capabilities, limitations, and regulations.
- Know your winch. Take the time to read and understand the winch owner's manual.
- Do not make any unauthorized modifications to the system. Any modifications must be authorized by the manufacturer.
- Only use the Swap Hogg system with bodies that properly fit the front stops, the body lock, and the rear body hold downs.

## Safe Operating Practices

- Always keep clear of all moving parts.
- Always operate the Swap Hogg system on a firm, level surface.
- Always inspect for defective parts (parts that are damaged, broken, bent, excessively worn, etc.). If defects are found, replace the defective parts before using the system.
- Never operate the system with missing or defective parts.
- Never drive the vehicle with the hoist in a raised position.
- Never use the safety prop rod to prop up a loaded body.
- Always keep the body lock in its locked position while dumping or driving.
- Always inspect the condition of the winch cable before loading/unloading a body.
- Keep clear of winch cable and hook while the cable is under load or in tension.
- Always wear heavy duty leather gloves when handling winch cable.
- Always ensure the load weight doesn't exceed the winch or winch cable capacity.
- Never exceed the Gross Vehicle Weight Rating of the vehicle.
- Always ensure the cable hook's spring latch is closed and not supporting the load.
- Always maintain a minimum of 5 wraps of cable on the winch drum.
- Always ensure the cable spools in the correct direction.
- Always ensure that the cable spools evenly on the winch drum.
- Always be aware of possible hot surfaces on the winch during and after use.
- Always position a body centered and parallel to the hoist before loading.
- Always load a body in such a way that the weight of the cargo is evenly distributed.
- Always check for adequate overhead clearance before raising the hoist.
- Always make sure personnel are clear of areas of danger when using equipment.
- Always engage the vehicle's parking brake if operating the Swap Hogg system from outside the vehicle cab.

## Maintenance Safety

- Only fully trained and authorized personnel should service and/or repair the system.
- Always wear safety glasses when servicing unit.
- Never attempt to work under a body with cargo in it, while raised.
- Never attempt to work under a body (empty) without the safety prop rod engaged.

# Maintenance

**\*Do not perform any maintenance or repairs on the Swap Hogg system unless authorized and trained to do so.** Never modify or alter any of the equipment whether mechanical, electrical, or hydraulic, without DownEaster's approval.

## Maintenance & Repairs

Proper and routine maintenance is crucial to keeping the system in good working condition, as well as to prolong the life of the system and components. Making necessary repairs is crucial to keeping the system in safe operating condition. Neglecting to perform necessary maintenance and repairs may compromise the safety of the system and/or void the warranty.

### ***Before each use:***

- Inspect the winch cable for any damage that could compromise its integrity. Replace the cable if damaged. See winch manual for replacement procedure.
- Inspect hydraulic components for any cracks or other damage. Replace any damaged components.

### **NOTICE**

**Always replace hydraulic components with parts that are compatible with the original manufacturer equipment or one that is approved by the manufacturer. Replacing with incompatible parts will void the warranty. Any incompatible part may lead to failure of hoist, which may result in vehicle damage, property damage, injury or death.**

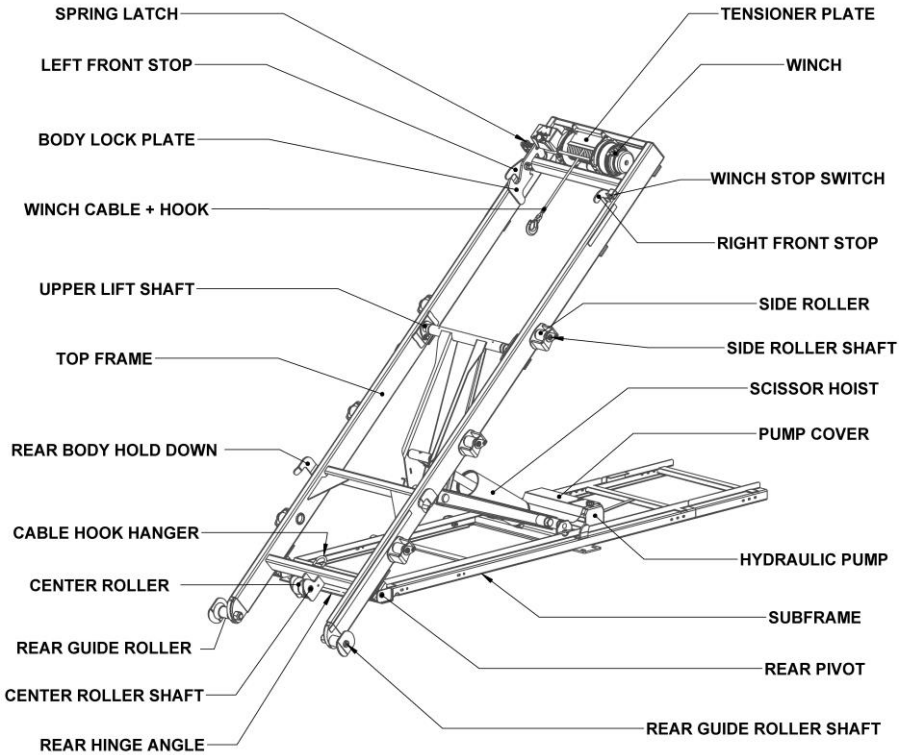
### ***Regularly:***

- Remove any dirt, grime, or any other material that may interfere with working parts.
- Inspect rollers, wheels, and other moving parts for damage or excess wear. Replace worn or damaged parts.
- Lubricate moving parts. Grease all grease fitting locations. Apply cable lubricant to winch cable (Only use lubricant designed for wire rope). Apply lithium grease spray to body lock pivot point and spring-loaded lock pin. See lubrication location diagram in the *Appendix*.
- Maintain all safety labels in good condition. Replace missing or damaged safety labels with new labels which are available through your Swap Hogg dealer. See safety label images and locations in the *Appendix*.
- Check hydraulic fluid level. Add fluid if needed. Only use automatic transmission fluid (Dextron III) in the hydraulic reservoir.
- Check that nuts and bolts are properly torqued.

# System Overview

The Swap Hogg unit is an electric-over-hydraulic roll off system. The system utilizes an electric winch and hydraulic scissor hoist. The roll off system can be used to quickly and easily switch between various types of bodies.

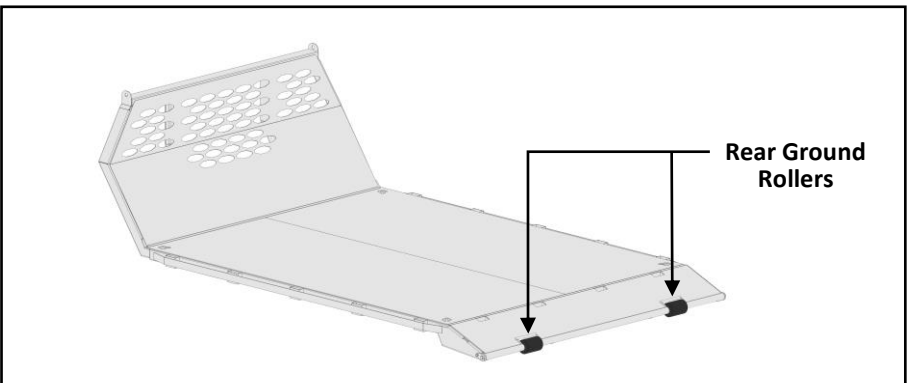
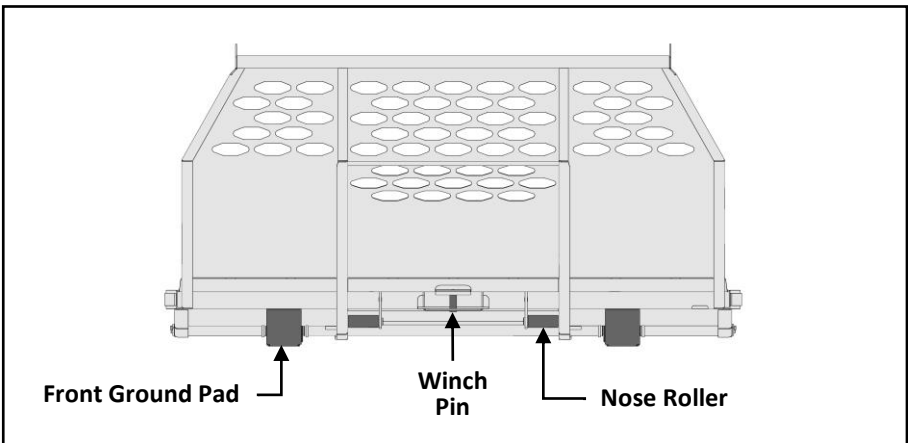
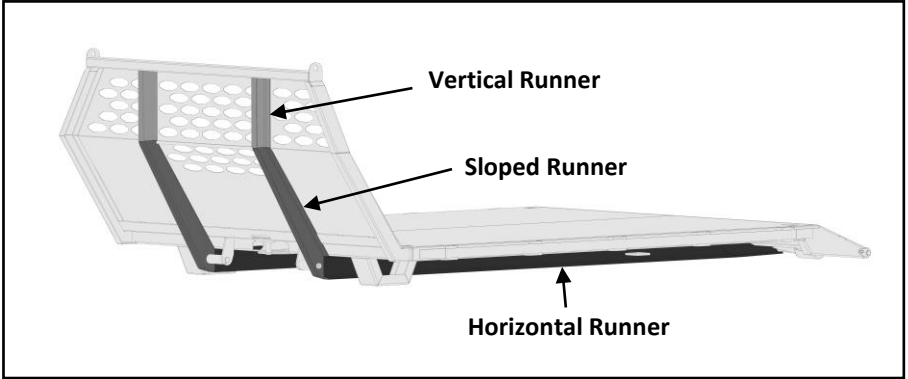
## Swap Hogg Frame - Parts Diagram





# System Overview

## Swap Hogg Body - Common Parts Diagram



# Safety Prop Rod

## **⚠ DANGER**

Never use the safety prop rod to prop up a loaded body. The prop rod is only designed to be used with an unloaded body or without a body on the Swap Hogg frame. Misuse of the prop rod may result in serious injury or death.

## **⚠ WARNING**

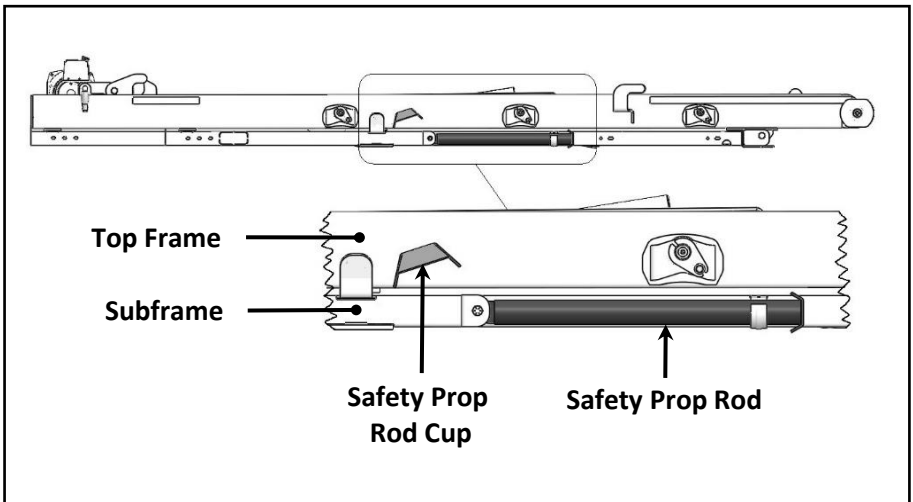
Unless the prop rod is properly engaged, keep all body parts and foreign objects clear of the area between the top frame and subframe of the Swap Hogg.

## **⚠ CAUTION**

Do not power down the hoist while the prop rod is engaged. Powering down on prop rod may result in damage to the prop rod and/or hoist system.

## Safety Prop Rod Overview

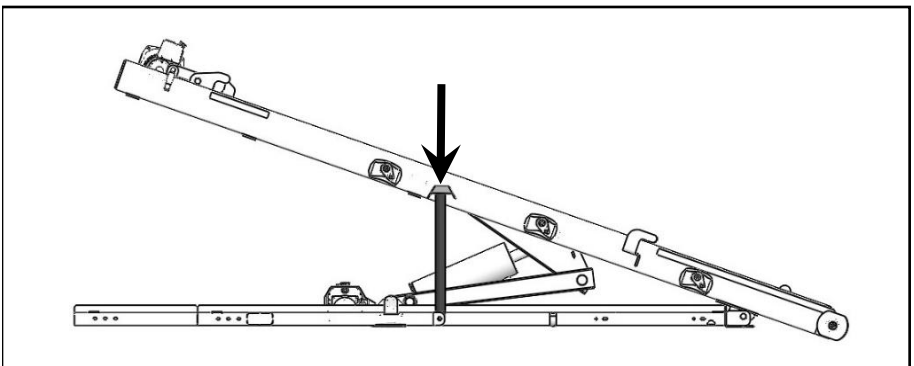
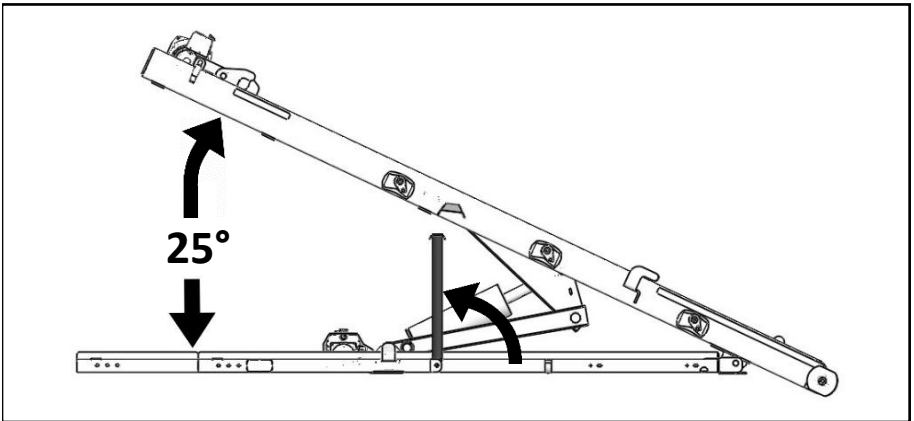
The Swap Hogg hoist system is equipped with a safety prop rod as a positive means of support. Engaging the prop rod prevents accidental lowering of the body while maintenance, repairs, or inspection work is being performed. The prop rod is only to be used with an unloaded body or without a body on the hoist system. Before each use, inspect the prop rod and prop rod cup to ensure that it is free of any damage or deterioration that may compromise its safe operation.



# Safety Prop Rod

## Engaging Prop Rod

- Step 1 -** Raise the top frame of the Swap Hogg at least halfway (approximately a 25° angle). If the top frame isn't raised enough, the rear side roller will interfere with engaging the prop rod.
- Step 2 -** Rotate the prop rod counterclockwise to a vertical position. The prop rod should have enough tension on the pivot bolt to keep the prop rod freestanding in its upright position.
- Step 3 -** Carefully lower the top frame until the prop rod cup contacts the prop rod. Once the prop rod and cup have made contact, stop lowering the hoist. Continuing to power down the hoist after this point could damage the prop rod.



## Disengaging Prop Rod

To disengage prop rod use engaging procedure in reverse.

# Hoist System

## **⚠ DANGER**

Never exceed the hoist system's rated capacity (15,000 lbs). Serious injury or death may occur if the system is used beyond its rated capacity.

## **⚠ DANGER**

Never attempt to work under a raised and loaded body. If hoist system happens to malfunction while working under a loaded body, serious injury or death may occur.

## **⚠ WARNING**

Always ensure body lock is engaged while dumping material or transporting a body.

## **⚠ CAUTION**

Only operate the hoist system on a firm and level surface.

## Hoist System Overview

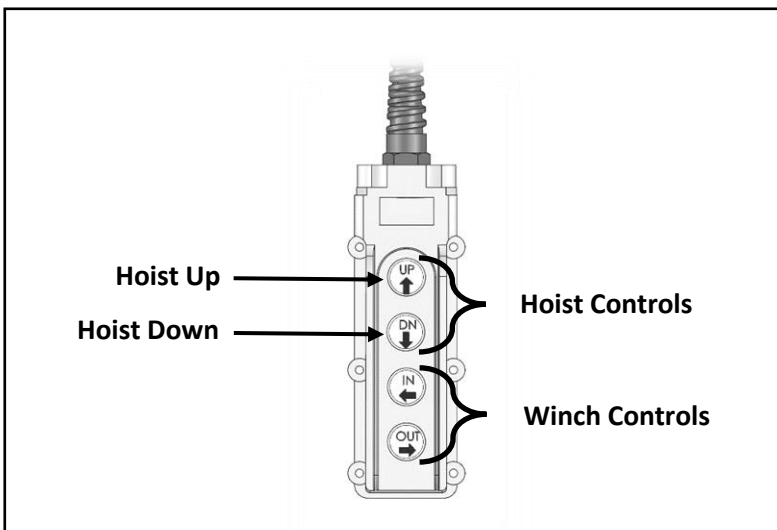
The Swap Hogg hoist system utilizes a hydraulic pump and scissor hoist. The system can be powered up and powered down. The hoist system is used to load/unload bodies and to dump material from applicable bodies.

## Hoist System Operation

A control pendant is used to operate the hoist system, as well as the winch. The control pendant has four buttons, two operate the hoist and the other two operate the winch. To raise/lower the hoist, press the corresponding button on the control pendant.

## **⚠ CAUTION**

Avoid using both the hoist and winch controls simultaneously as it may cause an amperage/system charge overload.



*Control Pendant*

# Winch

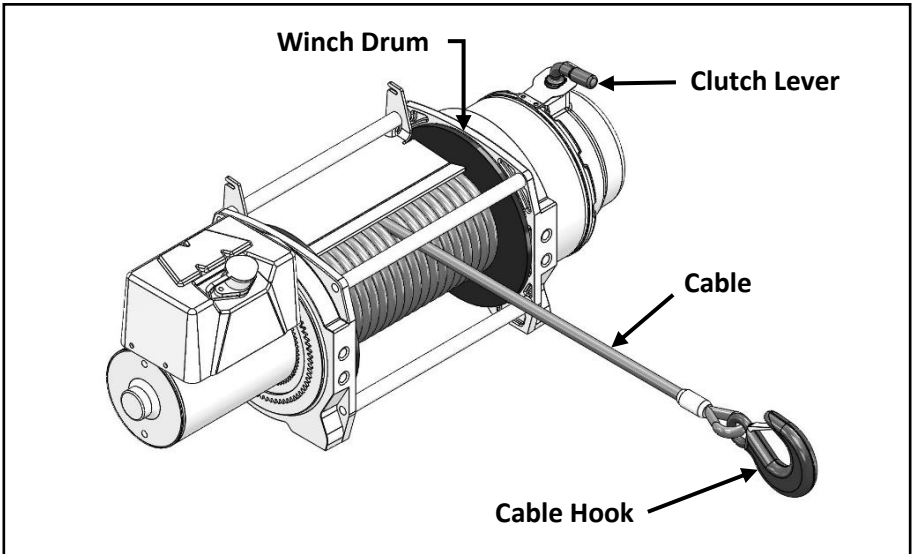
\*For complete winch safety and other operator information, refer to the winch owner manual that is included with the Swap Hogg unit.

## **⚠ DANGER**

Never exceed the rated capacity (15,000 lbs) of the winch or winch cable. Serious injury or death may occur if the system is used beyond its rated capacity.

## **⚠ DANGER**

Never operate winch with less than 5 wraps of cable around the drum. Cable could come loose from the drum, as the cable anchor isn't designed to hold the weight of a load.



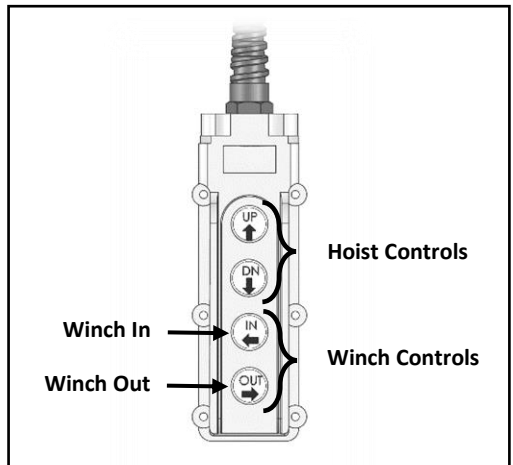
Winch Parts

## Control Pendant

The winch is operated by the same control pendant as the hoist. To power the winch in/out, press the corresponding button on the control pendant.

## **⚠ CAUTION**

Avoid using both the hoist and winch controls simultaneously as it may cause an amperage overload or system charge overload.



Control Pendant

# Winch

## Clutch Operation

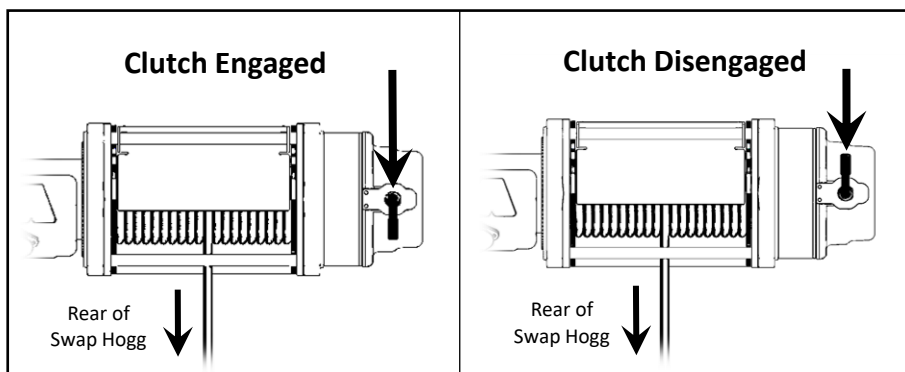
The clutch lever, located on the winch housing opposite the motor, controls the clutch position. When the clutch is engaged, power can be transferred from the winch motor to the winch drum. When the clutch is disengaged, the winch drum is uncoupled from the motor gears to allow the drum to free-spool. To prevent damage, always fully engage or disengage the clutch lever.

### **⚠ WARNING**

Never engage or disengage the clutch if the winch is under load, winch cable is in tension, or the drum is moving.

### **⚠ WARNING**

Never disengage the clutch with a body attached.



*Winch Clutch Lever Positions*

## Spooling Out: Free-Spool

Free-spooling is generally the easiest and fastest method to spool out. If the winch cable is under any tension, then it must be removed before free-spooling. To do this, power-out enough cable to remove the tension. Once the cable is no longer under tension, disengage the clutch by moving the clutch lever to the disengaged position. Pull the cable hook to manually spool out the desired amount of cable.

### **⚠ CAUTION**

Always handle winch cable with heavy leather gloves.

## Spooling Out: Power-Out

To power out, simply press the "winch out" button on the control pendant until the desired amount of cable has been unspooled.

### **NOTICE**

Use the free-spool method when spooling out a large amount of cable. If a large amount of cable is powered out, the winch may require a short cool down period before powering back in.

# Winch

## Spooling In: Under Load

Use the control pendant to power-in the winch cable. As the cable powers in, ensure that it spools evenly and tightly on the winch drum. This prevents the outer wraps from sinking into the inner wraps, which can cause binding and damage to the winch cable.

### **⚠ CAUTION**

**Avoid shock loads when loading/unloading. Shock loads can momentarily exceed the rated capacity of the winch/cable.**

## Spooling In: Under No Load

*Spooling with an Assistant:* Have the assistant hold the cable hook putting constant tension on the cable. While keeping the cable in tension, have the assistant walk towards the winch as you power-in the cable. Have the assistant ensure the cable spools evenly and tightly.

*Spooling Alone:* Arrange the winch cable so that when spooled it will not kink or tangle. Be sure that any cable already on the drum is tight and evenly layered. Spool in enough cable to complete the next full layer on the drum. Tighten and straighten the layer. Repeat the process until the desired amount of cable has been spooled in.

# Loading

## Attaching Cable Hook

Every Swap Hogg body will have a load pin located on the front bottom center of the body. The load pin is the only place you should attach the winch cable to.

### **⚠ WARNING**

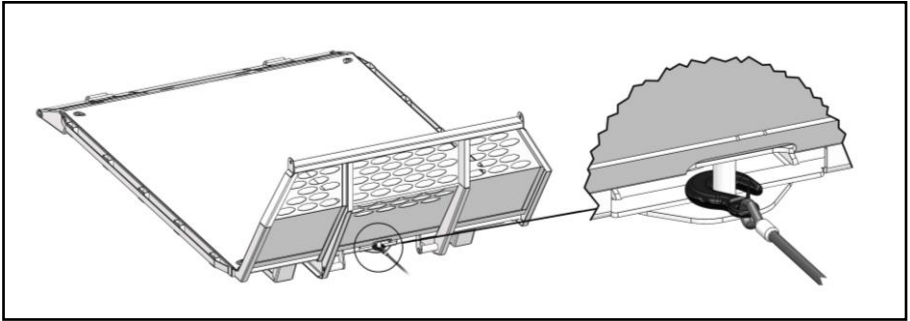
Always ensure the safety latch on the cable hook works properly. The latch should stay firmly closed. Do not operate the system if the latch is damaged or fails to work properly.

### **⚠ CAUTION**

Always ensure that the safety latch on the cable hook is fully closed before loading/unloading.

### **⚠ CAUTION**

Always apply the load to the center of the hook. Never apply a load to the tip of the hook or the safety latch.

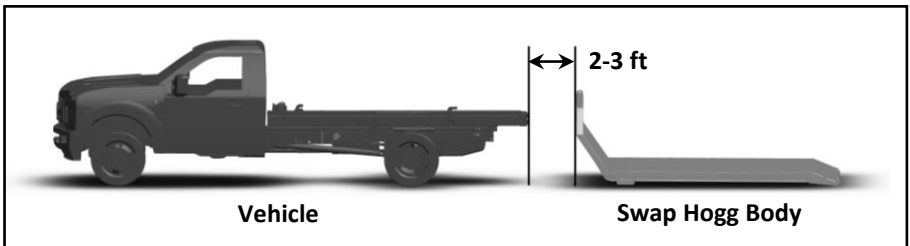


**Step 1** - Spool out enough cable to reach the load pin on the Swap Hogg body.

**Step 2** - Attach the cable hook to the load pin.

## Loading Empty Body

**Step 1** - Position the vehicle so that it is centered and square with the body. The rear of the Swap Hogg should be approximately 2-3 feet from the body.



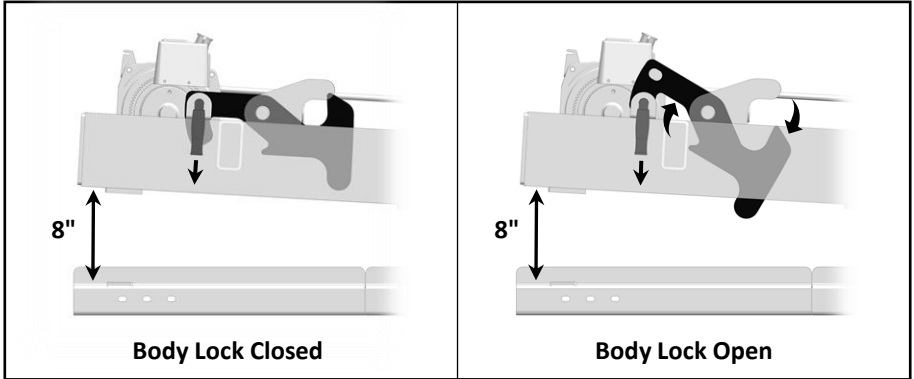
**Step 2** - Attach the cable hook to the load pin.

**Step 3** - Raise the hoist so that the front of the Swap Hogg top frame is about 8 inches above the Swap Hogg subframe. This allows the body lock to be moved into its "open" position.



# Loading

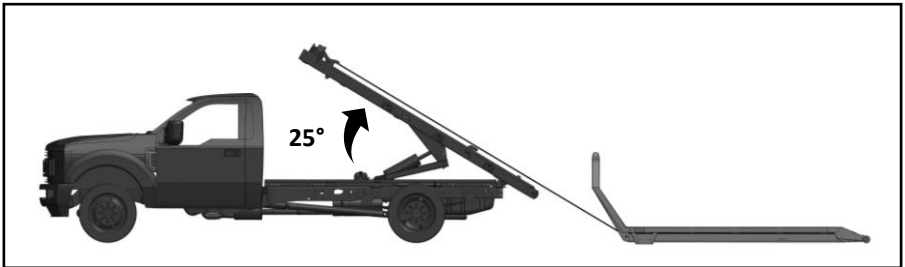
- Step 4 -** Move the body lock into its "open" position by pulling out the spring-loaded body lock pin and rotating the body lock clockwise. Always keep the handle of the lock pin facing down.



## CAUTION

Always remember to move the body lock into the "open" position prior to loading a body. Loading with the body lock in the "closed" position will prevent a body from loading properly and could also result in damage to the system.

- Step 5 -** Raise the hoist about half way (approximately a 25° angle).



## NOTICE

*If operating the Swap Hogg system from inside the vehicle cab:*  
Disengage the vehicle's parking brake and put the vehicle in neutral.

*If operating the Swap Hogg system from outside the vehicle cab:*  
Engage the vehicle's parking brake.

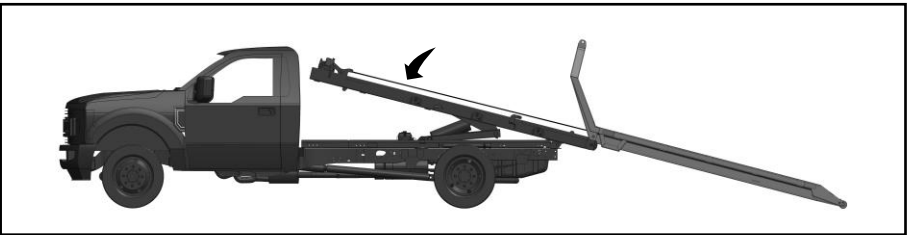
- Step 6 -** Power-in to remove any slack that may be in the winch cable. As you are spooling in, ensure that the cable stays inline with the rear center roller.

- Step 7 -** Continue to power-in the winch to bring the vehicle and body together. Ensure that the body's runners sit between the rear guide rollers/plates.

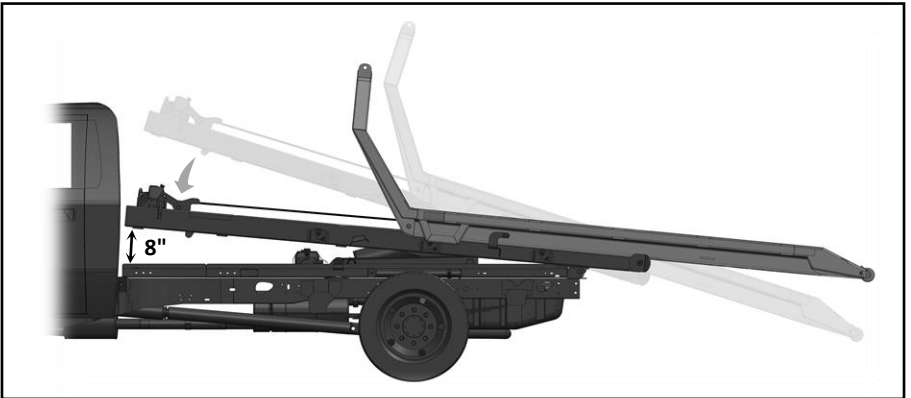
# Loading



**Step 8 -** Power-in the winch until the body's nose rollers ride up onto the rails of the Swap Hogg top frame. At this point, lower the hoist so that the angle of the Swap Hogg top frame matches the angle of the body.



**Step 9 -** Power-in the winch until the horizontal runners ride onto the 2nd side rollers (side rollers in front of rear body hold downs.) At this point, lower the hoist so that the front of the Swap Hogg top frame is about 8 inches above the Swap Hogg subframe. This lower angle will make it easier on the winch to spool in the rest of the way.

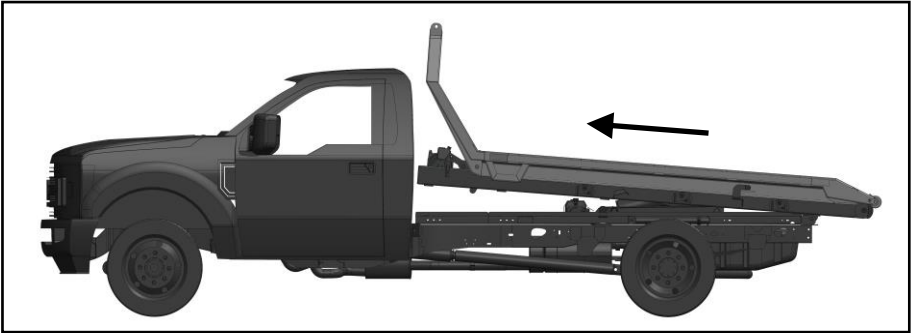


## **⚠ WARNING**

Do not fully lower the hoist at this step as it will move the body lock to the "closed" position. A closed body lock will prevent the body from fully riding up the Swap Hogg frame.

# Loading

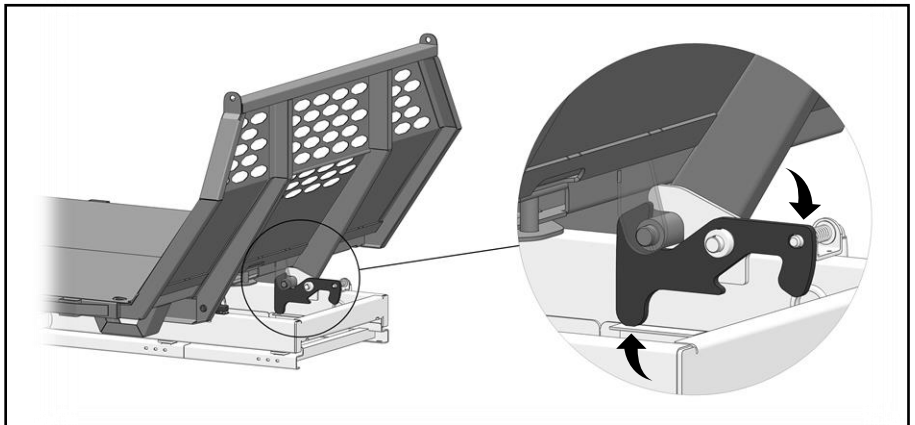
**Step 10** - Power-in the winch until the body's nose rollers are pulled up to the front stops on the Swap Hogg frame. As the body comes into the front stops, the passenger side nose roller will contact and activate the winch stop switch. This will stop the winch from spooling in any further.



**Step 11** - Lower the hoist all the way down. As the top frame and subframe of the hoist come together, the subframe pushes up on the body lock causing it to rotate into its "closed" position. This will align the hole in the body lock with the spring-loaded body lock pin. The pin will automatically set into the hole and secure the body lock in its closed position. Always check to ensure the body lock is engaged properly.

## **CAUTION**

Always remember to leave the handle of the body lock pin facing down, regardless of the body lock being in the open or closed position.

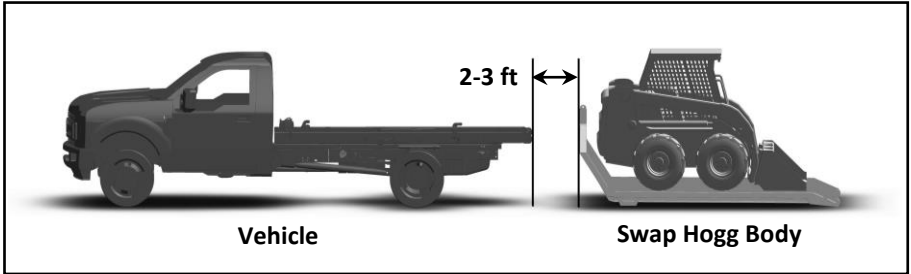


\*Some parts hidden/transparent to show body lock

# Loading

## Loading Body with Cargo

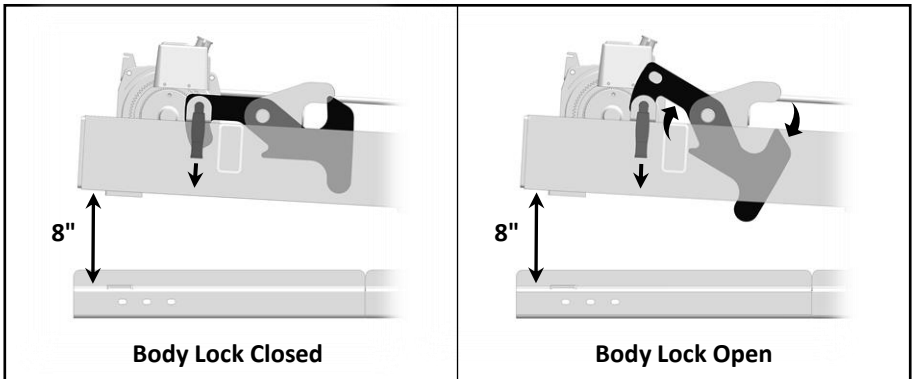
**Step 1 -** Position the vehicle so that it is centered and square with the body. The rear of the Swap Hogg should be approximately 2-3 feet from the body.



**Step 2 -** Attach the cable hook to the load pin.

**Step 3 -** Raise the hoist so that the front of the Swap Hogg top frame is about 8 inches above the Swap Hogg subframe. This allows the body lock to be moved into its "open" position.

**Step 4 -** Move the body lock into its "open" position by pulling out the spring-loaded body lock pin and rotating the body lock clockwise. Always keep the handle of the lock pin facing down.



\*Some parts transparent to show body lock

### **⚠ CAUTION**

Always remember to move the body lock into the "open" position prior to loading a body. Loading with the body lock in the "closed" position will prevent a body from loading properly and could also result in damage to the system.

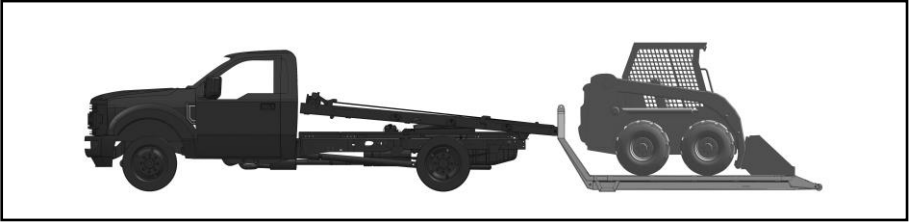
# Loading

## NOTICE

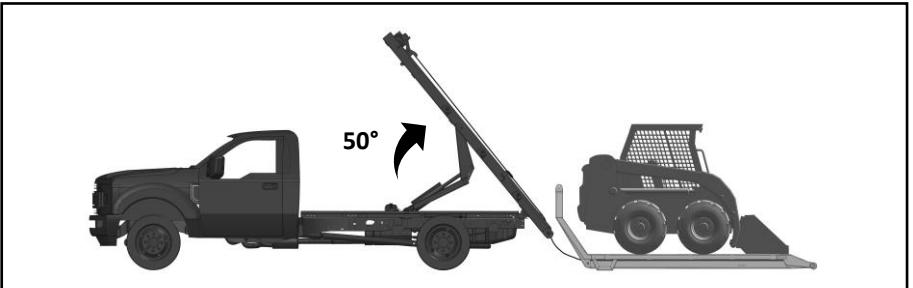
*If operating the Swap Hogg system from inside the vehicle cab:*  
Disengage the vehicle's parking brake and put the vehicle in neutral.  
This allows the vehicle to roll under the body while spooling in.

*If operating the Swap Hogg system from outside the vehicle cab:*  
Engage the vehicle's parking brake.

**Step 5 -** Power-in the winch until the Swap Hogg frame and body come together.



**Step 6 -** Raise the hoist to its maximum height (approximately a 50° angle).



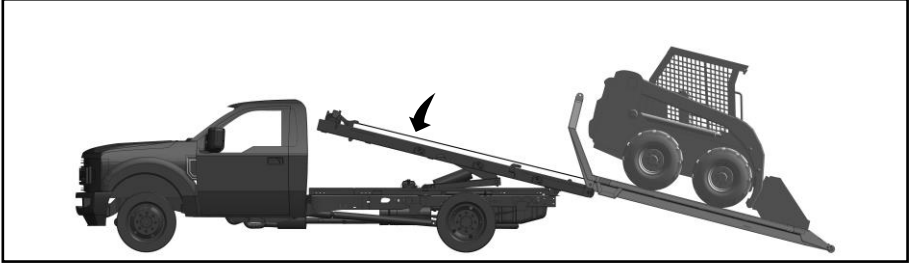
**Step 7 -** Power-in to remove any slack that may be in the winch cable. As you are spooling in, ensure that the cable stays in line with the rear center roller.

**Step 8 -** Continue to power-in the winch to bring the vehicle and body together. Ensure that the body's runners sit between the rear guide rollers/plates.



# Loading

**Step 9 -** Power-in the winch until the body's nose rollers ride up onto the rails of the Swap Hogg top frame. At this point, lower the hoist so that the angle of the Swap Hogg top frame matches the angle of the body.



**Step 10 -** Power-in the winch until the horizontal runners ride onto the 2nd side rollers (side rollers in front of rear body hold downs.) At this point, lower the hoist so that the front of the Swap Hogg top frame is about 8 inches above the Swap Hogg subframe. This lower angle will make it easier on the winch to spool in the rest of the way.

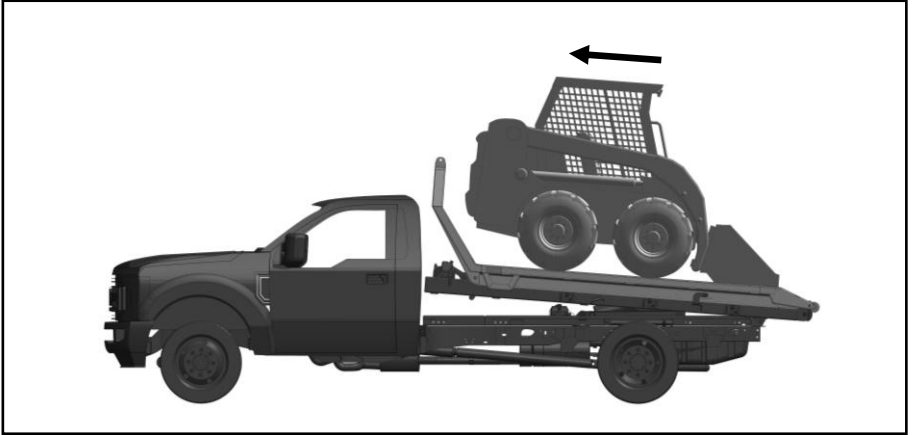


## **⚠ WARNING**

Do not fully lower the hoist at this step as it will move the body lock to the "closed" position. A closed body lock will prevent the body from fully riding up the Swap Hogg frame.

# Loading

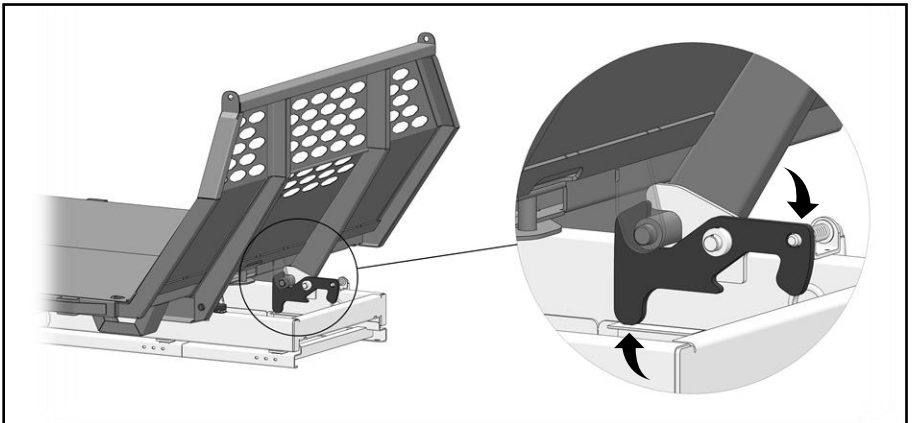
**Step 11** - Power-in the winch until the body's nose rollers are pulled up to the front stops on the Swap Hogg frame. As the body comes into the front stops, the passenger side nose roller will contact and activate the winch stop switch. This will stop the winch from spooling in any further.



**Step 12** - Lower the hoist all the way down. As the top frame and subframe of the hoist come together, the subframe pushes up on the body lock causing it to rotate into its "closed" position. This will align the hole in the body lock with the spring-loaded body lock pin. The pin will automatically set into the hole and secure the body lock in its closed position. Always check to ensure the body lock engages properly.

## **CAUTION**

Always remember to leave the handle of the body lock pin facing down, regardless of the body lock being in the open or closed position.

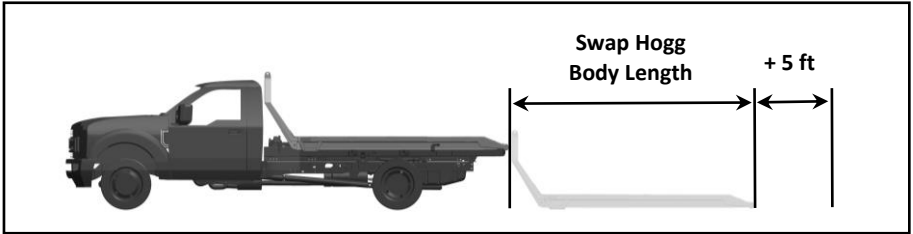


\*Some parts hidden/transparent to show body lock

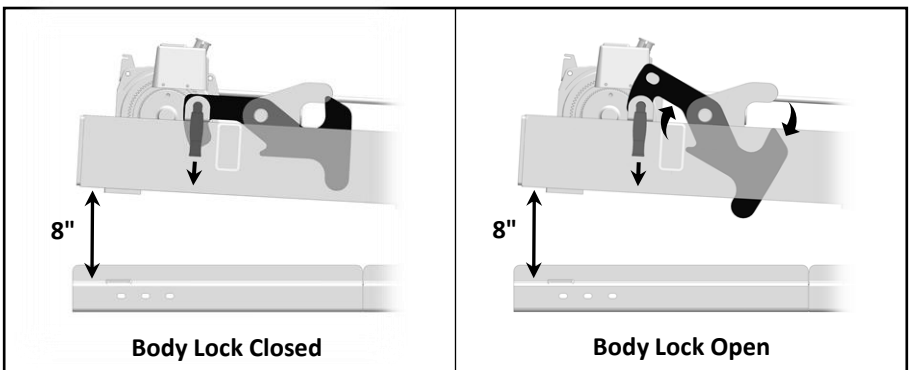
# Unloading

## Unloading Empty Body

- Step 1 -** Find an area with adequate space to unload the body (keep in mind the space required to load/unload cargo, open doors/gate, etc.). This space should be at least 5 feet longer than the length of the body.



- Step 2 -** Engage the vehicle's parking brake.
- Step 3 -** Raise the hoist so that the front of the Swap Hogg top frame is about 8 inches above the Swap Hogg subframe. This allows the body lock to be moved into its "open" position.
- Step 4 -** The weight of the body should be supported by the winch cable. If the weight of the body is being supported by the body lock and/or there is slack in the winch cable, power-in the winch until the stop switch is activated. This allows the winch cable to support the weight of the body.
- Step 5 -** Move the body lock into its "open" position by pulling out the spring-loaded body lock pin and rotating the body lock clockwise. Always keep the handle of the lock pin facing down.

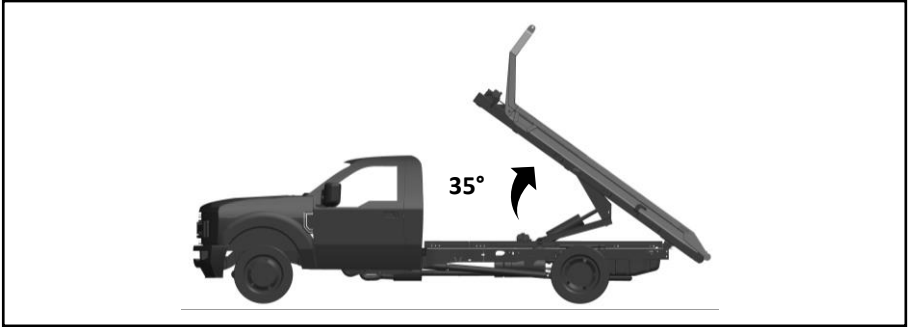


\*Some parts transparent to show body lock

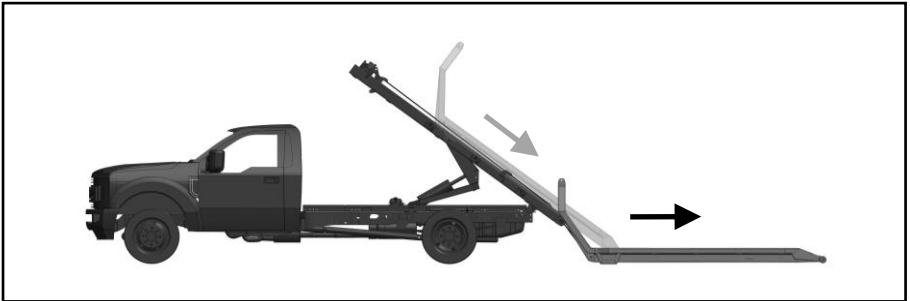


# Unloading

**Step 6 -** Raise the hoist about two-thirds of the way up (approximately a 35° angle).



**Step 7 -** Power-out the winch to allow the body to roll down and off the Swap Hogg frame. Continue to power-out until the body is sitting on its front ground pads and rear ground rollers.



**Step 8 -** With the body sitting on the ground, power-out approximately 5 feet of additional cable. This slack will allow the cable hook to be detached. To prevent the cable from being damaged or from interfering with the hoist being lowered, pull the slack in the cable to the rear of the Swap Hogg.

**Step 9 -** Lower the hoist all the way down.

**Step 10 -** Disengage the vehicle's parking brake.

**Step 11 -** Move the vehicle forward so that there is approximately 2 to 3 feet of space between the rear of the Swap Hogg and the Swap Hogg body. Be sure not to move so far forward that tension is placed on the cable.

**Step 12 -** Detach the cable hook from the body.

**Step 13 -** Spool in the winch until the cable hook gets to the rear center roller.

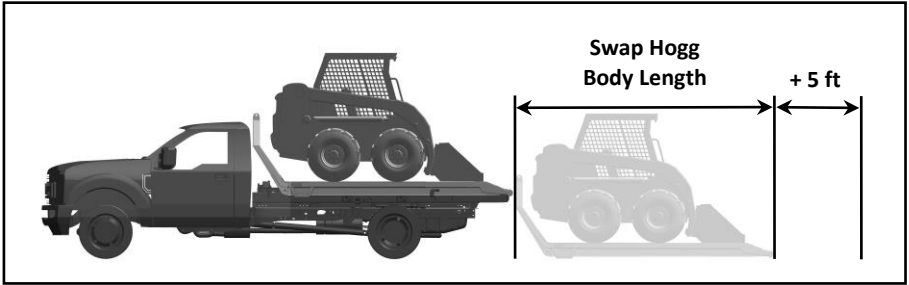
**Step 14 -** Attach the cable hook to the D-ring near the rear center roller.

**Step 15 -** Lower the hoist all the way down.

# Unloading

## Unloading Body with Cargo

- Step 1 -** Find an area with adequate space to unload the body (keep in mind the space required to load/unload cargo, open doors/gate, etc.). This space should be at least 5 feet longer than the length of the body.

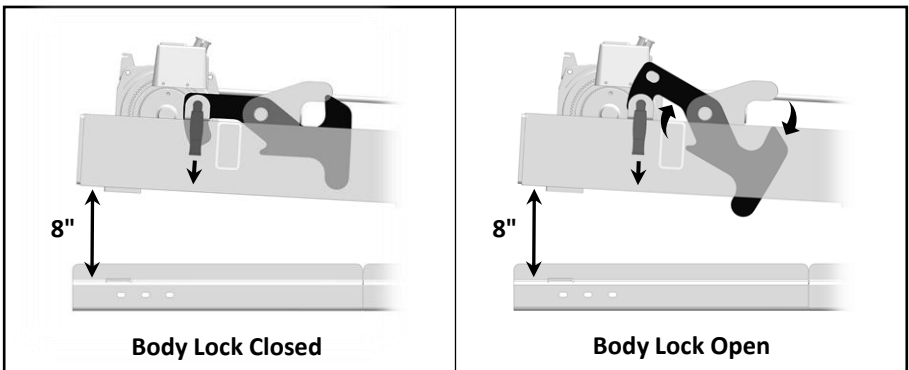


- Step 2 -** Engage the vehicle's parking brake.

- Step 3 -** Raise the hoist so that the front of the Swap Hogg top frame is about 8 inches above the Swap Hogg subframe. This allows the body lock to be moved into its "open" position.

- Step 4 -** The weight of the body should be supported by the winch cable. If the weight of the body is being supported by the body lock and/or there is slack in the winch cable, power-in the winch until the stop switch is activated. This allows the winch cable to support the weight of the body.

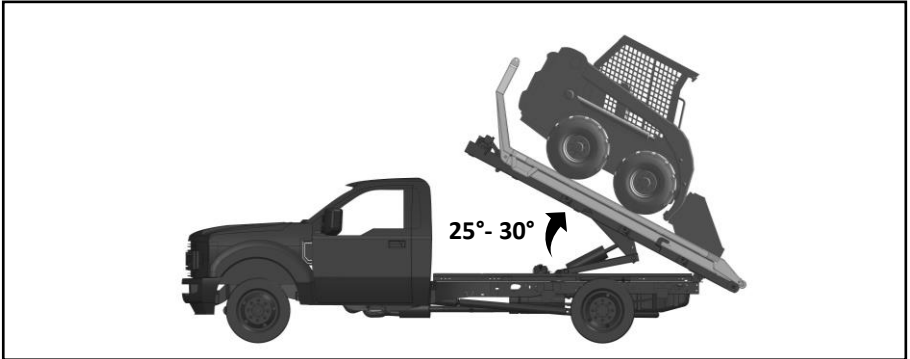
- Step 5 -** Move the body lock into its "open" position by pulling out the spring-loaded body lock pin and rotating the body lock clockwise. Always keep the handle of the lock pin facing down.



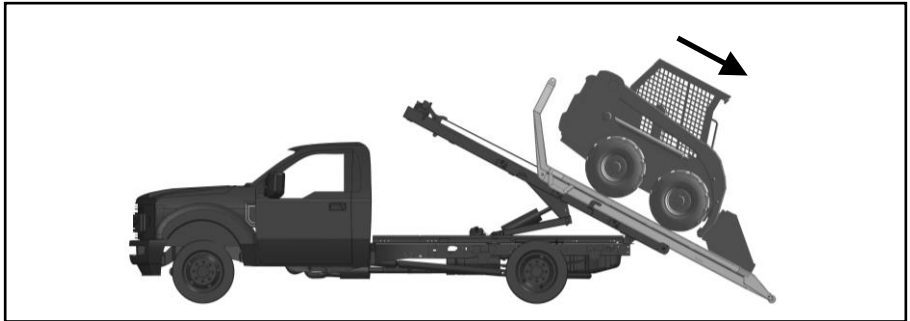
\*Some parts transparent to show body lock

# Unloading

**Step 6 -** Raise the hoist to approximately a 25° to 30° angle.

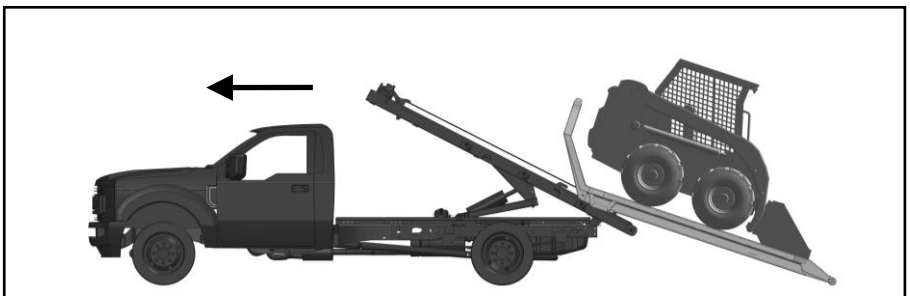


**Step 7 -** Power-out the winch to allow the body to roll down the Swap Hogg frame. Continue to power-out the winch until the body's rear ground rollers make contact with the ground.

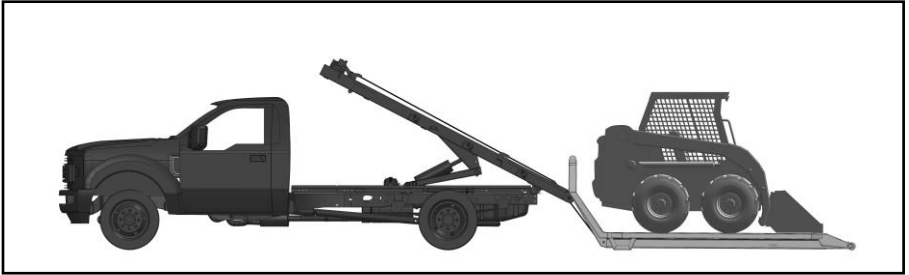


**Step 8 -** Depress the brake pedal, then disengage the vehicle's parking brake. Keeping the brake pedal depressed, put the vehicle in neutral.

**Step 9 -** Slowly let off the brake pedal then power-out the winch. As the winch is spooled out, the weight of the body and cargo will cause the vehicle to roll forward and out from under the body. Continue to spool out the winch until the body's front ground pads are sitting on the ground.



# Unloading



**Step 10** - With the body sitting on the ground, power-out approximately 5 feet of additional cable. This slack will allow the cable hook to be detached.

**Step 11** - Move the vehicle forward so that there is approximately 2 to 3 feet of space between the rear of the Swap Hogg and the Swap Hogg body. Be sure not to move so far forward that tension is placed on the cable.

**Step 12** - Engage the vehicle's parking brake.

**Step 13** - Detach the cable hook from the body.

**Step 14** - Spool in the winch until the cable hook gets to the rear center roller.

**Step 15** - Attach the cable hook to the D-ring near the rear center roller.

**Step 16** - Lower the hoist all the way down.

# Dumping

## Dumping Material

### **⚠ DANGER**

Never dump without the body lock engaged. Failure to use the body lock could result in serious injury or death.

### **⚠ WARNING**

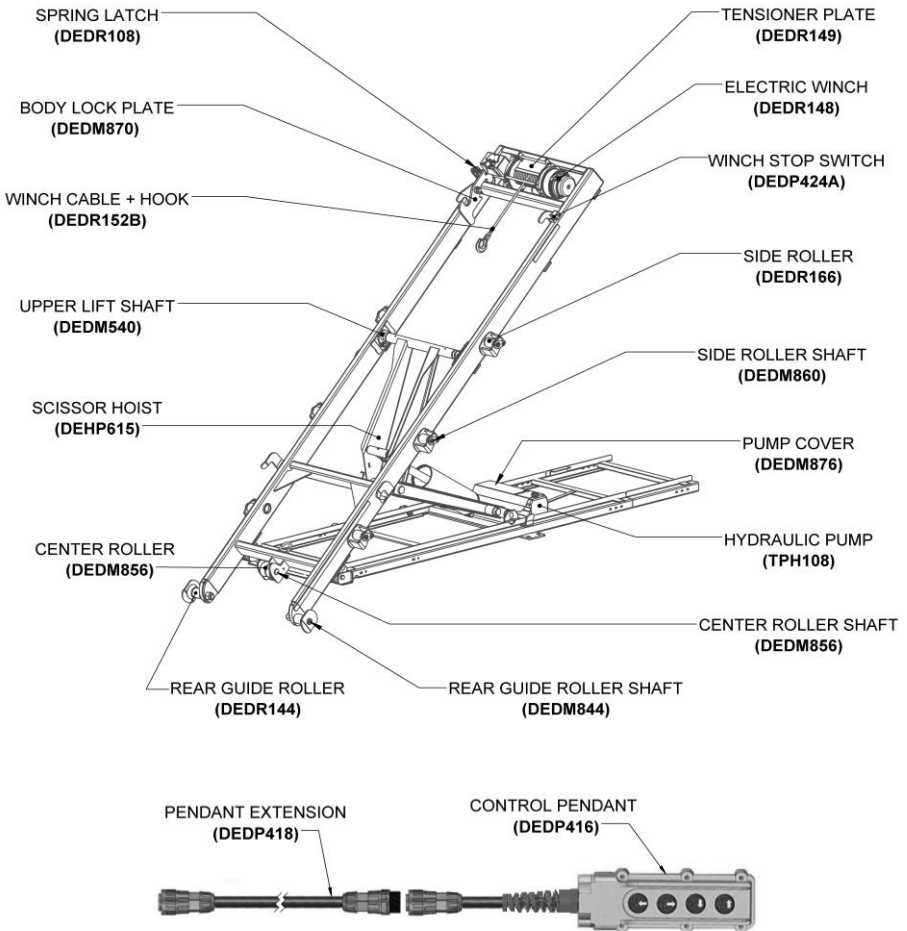
Always check to make sure the area where you are dumping at has adequate over-head and rear space.



- Step 1 -** Find an area with adequate space to dump the desired amount of material.
- Step 2 -** Open the body's gate/tailgate. If the body has a gate, secure it back. If the body has a tailgate, set the safety chains.
- Step 3 -** Raise the hoist to the desired angle.
- Step 4 -** Allow the desired amount of material to dump out of the body.
- Step 5 -** Lower the hoist all the way down.
- Step 6 -** Close the gate/tailgate.

# Parts Diagram

## Swap Hogg Parts Diagram



# Parts List

## *Parts & Components List*

<b>Part Name</b>	<b>Part #</b>	<b>Description</b>
Spring Latch	DEDR108	3/4" Spring latch for body lock
Body Lock Plate	DEDM870	Plate for locking body while transporting and dumping
Scissor Hoist	DEHP615	Scissor hoist, w/ 6" bore x 15" stroke cylinder
Hydraulic Pump	TPH108	Hydraulic pump, power up/power down, 1.5 gal tank
Electric Winch	DEDR148	15k electric winch
Tensioner Plate	DEDR149	Tensioner plate for 15k electric winch
Winch Cable	DEDR152B	25' winch cable with spring latch hook
Winch Stop Switch	DEDP424A	Switch to stop winch when fully drawn in
Side Roller Shaft	DEDM860	Shaft for side rollers
Side Roller	DEDR166	2.5" polyurethane roller with steel DOM insert
Rear Guide Roller Shaft	DEDM844	Shaft & guide plate for rear guide roller w/ 1.25" lock nut
Rear Guide Roller	DEDR144	Roller to guide and align body as it initially rolls up frame
Center Roller Shaft	DEDM856	Shaft for center roller
Center Roller	DEDR122	Roller for winch cable to ride up/down
Pump Cover	DEDM876	Stainless steel cover for hydraulic pump
Control Pendant	DEDP416	4 button control pendant for winch and hoist
Pendant Extension Cord	DEDP418	15' 6 wire extension to connect pendant to pump

# Troubleshooting

Problem	Probable Cause	Corrective Action
Hoist and/or pump inoperative	Bad control pendant connection	Check pendant for loose connections or damage
	Bad power connection	Check for loose connections, damaged wires, or blown fuse
	Weak battery	Ensure batteries meet system requirements and is properly charged
Hoist won't go up	Low hydraulic fluid	Fill tank to proper level and check system for leaks
	Pump pressure is set too low	Contact manufacturer for correct pump settings
	Defective up coil	Replace coil
Hoist won't go down	Low hydraulic fluid	Fill tank to proper level and check system for leaks
	Damaged/broken hydraulic line	Repair or replace hydraulic line
	Body lock engaged before top frame is fully lowered	Disengage body lock
	Defective down coil	Replace coil
Hydraulic tank leaks	Clogged breather cap	Remove and clean breather cap
	Stuck valve	Remove valve and check for obstructions
Winch won't move in or out	Defective winch motor	Replace motor
	Bad cable connections	Ensure all cable connections are secure
Winch moves in the wrong direction	Winch wires are reversed	Attach wire to proper locations
	Cable spooled in the wrong direction	Unspool cable and respool in the correct direction
Winch won't pull in load	Load exceeds winch rating	Remove portion of the load to bring load weight within capacity
	Too much cable on drum	Remove excess cable
	Defective winch motor	Replace motor
	Broken gears in winch	Replace broken gears
Load won't release	Body lock engaged	Disengage body lock



# Troubleshooting

Problem	Probable Cause	Corrective Action
Cable detaches from winch	Set screw not properly torqued	Torque set screw to proper value (see cable installation instructions)
	Inadequate amount of cable wraps on winch drum	Ensure that at least 5 cable wraps are maintained on winch drum
Winch overheats during operation	Load exceeds winch rating	Remove portion of the load to bring load weight within capacity
	Not giving enough cooling time between loads	Give at least 1 hour of cool down time between max loads
	Worn motor brushes	Replace motor




# Appendix

## Material Weight Table

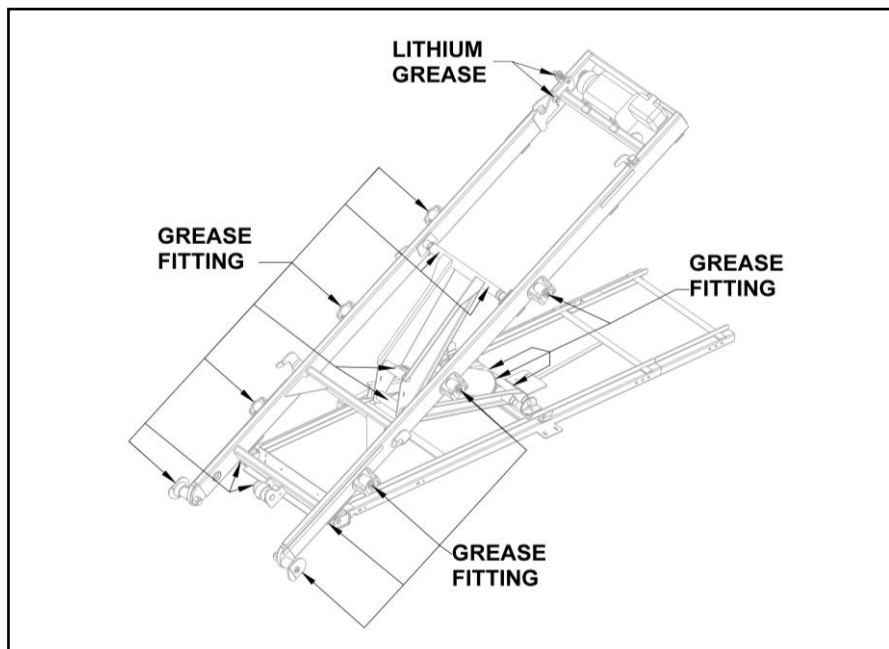
Material Weight - Pounds per Cubic Yard					
Aggregate Type	Weight (lbs)				
	1 Yard	2 Yard	3 Yard	4 Yard	5 Yard
Asphalt	2700	5400	8100	10800	13500
Concrete (gravel/stone mix)	4050	8100	12150	16200	20250
Concrete (average wet mix)	3730	7460	11190	14920	18650
Clay (dry)	2300	4600	6900	9200	11500
Clay (wet)	2970	5940	8910	11880	14850
Crushed Stone	2700	5400	8100	10800	13500
Topsoil (loose)	2050	4100	6150	8200	10250
Topsoil (packed)	2565	5130	7695	10260	12825
Topsoil (wet)	3375	6750	10125	13500	16875
Gravel (dry) 3/4	2565	5130	7695	10260	12825
Gravel (wet) 3/4	3375	6750	10125	13500	16875
Limestone (solid)	4480	8960	13440	17920	22400
Limestone (crushed)	2565	5130	7695	10260	12825
Pebbles (3/8 pea)	2700	5400	8100	10800	13500
Rock (2-6")	3200	6400	9600	12800	16000
Rip Rap (1-4")	4000	8000	12000	16000	20000
Sand (dry)	2750	5500	8250	11000	13750
Sand (wet)	3300	6600	9900	13200	16500
Salt (bulk)	2160	4320	6480	8640	10800
Salt/Sand Mix	2320	4640	6960	9280	11600
Snow (packed)	1350	2700	4050	5400	6750
Stone (crushed - average)	2700	5400	8100	10800	13500
Water	1700	3400	5100	6800	8500

# Appendix

## Torque Table

Size	Grade 2 Torque	Grade 5 Torque	Grade 8 Torque
			
1/4-20	3-4 lb-ft	6-7 lb-ft	10-11 lb-ft
1/4-28	4-5 lb-ft	8-9 lb-ft	11-12 lb-ft
5/16-18	8-9 lb-ft	14-15 lb-ft	21-22 lb-ft
5/16-24	9-10 lb-ft	15-16 lb-ft	21-22 lb-ft
3/8-16	17-18 lb-ft	24-26 lb-ft	37-40 lb-ft
3/8-24	19-20 lb-ft	28-30 lb-ft	40-43 lb-ft
1/2-13	38-42 lb-ft	60-65 lb-ft	90-100 lb-ft
1/2-20	43-47 lb-ft	70-75 lb-ft	95-105 lb-ft
5/8-11	75-80 lb-ft	122-130 lb-ft	180-190 lb-ft
5/8-18	85-90 lb-ft	145-150 lb-ft	200-210 lb-ft
3/4-10	132-140 lb-ft	220-230 lb-ft	315-330 lb-ft
3/4-16	152-160 lb-ft	250-260 lb-ft	355-370 lb-ft

## Lubrication Location Diagram



# Appendix

\*Safety labels may not be completely legible. The purpose of the images is to show the general appearance of the labels with the label numbers.

## Safety Labels

Label #: LBL160

**⚠ WARNING**

 <p><b>BODY LOCK HAZARD</b> DURING LOADING AND TRANSPORTING, KEEP BODY LOCK IN CLOSED POSITION. PRIOR TO SPRING LATCH CHECK, TO ENSURE LOCK PIN IS FULLY ENGAGED.</p>	 <p><b>TIPPING HAZARD</b> LOADING AND UNLOADING CONTAINER EVENLY AND ONLY USE ON LEVEL GROUND SURFACE.</p>	 <p><b>CRUSHING HAZARD</b> WHILE IN OPERATION, KEEP CLEAR OF MOVING PARTS AND KEEP A SAFE OPERATING DISTANCE FROM REAR OF THE CONTAINER AND/OR VEHICLE.</p>	 <p><b>SAFE OPERATING DISTANCE</b> LEAVE AT LEAST 8 FEET OF EXTRA SPACE BETWEEN PEOPLE AND/OR STRUCTURES AND WHERE THE CONTAINER WILL BE UNLOADED.</p>	 <p><b>WINCH CABLE CHECK</b> PRIOR TO USE, INSPECT CABLE FOR CUTS, KINKS, CORROSION, OR OTHER DAMAGE THAT MAY COMPROMISE THE CABLE'S FUNCTION OR STRENGTH. IF DAMAGED, CABLE SHOULD BE REMOVED FROM USE AND REPLACED.</p>	 <p><b>SAFETY LATCH CHECK</b> PRIOR TO USE, INSPECT WINCH-HOOK SAFETY LATCH AND SPRING FOR BENDS, BREAKS, OR EXCESSIVE WEAR. LATCH SHOULD BE COMPLETELY CLOSED AND SHOULD REMAIN FIRMLY CLOSED. DAMAGED LATCH SHOULD BE REMOVED FROM USE AND REPLACED.</p>
--	---	--	---	--	---

**FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY OR DEATH**

©2018 HESTER MFG., LLC

Label #: P10098R

**⚠ WARNING**

**USE ONLY WITH EMPTY BODY AND ENGINE OFF**

P10098R1

Label #: LBL162

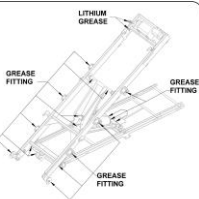
**GREASE FITTINGS**

ROUTINE INSPECTIONS AND MAINTENANCE ARE REQUIRED TO HELP ENSURE OPERATIVE CONDITION AND TO PREVENT PREMATURE WEAR. TO KEEP MOVING PARTS LUBRICATED AND TO HELP PREVENT RUBBING, REGULARLY APPLY GREASE TO ALL GREASE FITTINGS (LOCATED IN FIGURE TO THE RIGHT) AND APPLY LITHIUM GREASE SPRAY BETWEEN BODY LOCK PLATE AND SURROUNDING HARDWARE.

**PRIOR TO EACH USE:**

CHECK FOR DEBRIS BUILDUP BETWEEN MOVING PARTS AND/OR FOREIGN OBJECTS INTERFERING WITH THE SYSTEM. REMOVE IF ANY.

INSPECT BODY LOCK AND ALL ROLLERS TO ENSURE THAT THEY MOVE FREELY AND ARE WELL LUBRICATED.



©2018 HESTER MFG., LLC (162)

Label #: P10025R

**⚠ WARNING**

**Use of Safety Prop (empty body only)**

Never get under a raised empty body for any reason without the safety prop supporting the body.

1. Raise body to full "up" position.
2. Lift prop out of retaining bracket and swing back against stop.

**Note:** Larger capacity hoists have a prop on both sides. Both props must be up.

3. Lower body until resting on safety props

Champion Hoist & Equipment, Dunn, N.C. 910-897-4895 P10025R

Label #: PA10460

**⚠ CAUTION ⚠**

1. STAY OUT FROM UNDER BODY WHEN HOIST IS OPERATING.
2. DURING DUMPING OPERATION, NO ONE MUST BE ALLOWED TO STAND IN OR MOVE THROUGH THE AREA WHERE THE BODY AND HOIST OPERATE OR INTO AN AREA WHERE A LOAD MIGHT FALL.
3. OPERATOR MUST REMAIN AT CONTROLS DURING DUMPING OPERATIONS.
4. NEVER LEAVE BODY RAISED OF PARTLY RAISED WHILE VEHICLE IS UNATTENDED OR WHILE PERFORMING MAINTENANCE OR SERVICING UNDER BODY, UNLESS BODY IS BRACED TO PREVENT ACCIDENTAL LOWERING.
5. IF HOIST IS EQUIPPED WITH PTO, ALWAYS DISENGAGE WHEN NOT IN USE OR WHEN MOVING VEHICLE.
6. DO NOT ATTEMPT TO RAISE A LOADED BODY WHEN VEHICLE IS ON UNLEVEL GROUND.

©2018 HESTER MFG., LLC

Label #: PA10450

**⚠ DANGER ⚠**

**STAND CLEAR WHILE OPERATING**

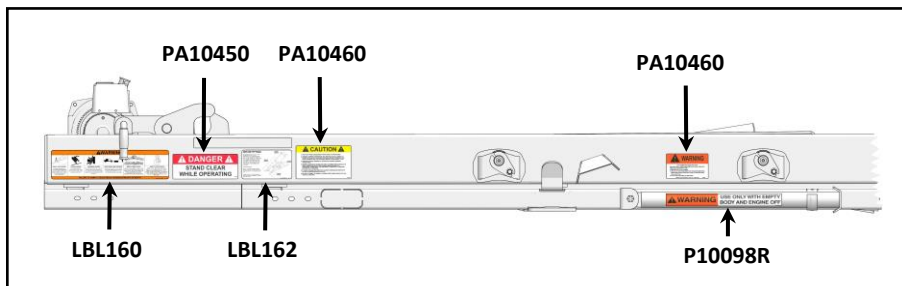
©2018 HESTER MFG., LLC

# Appendix

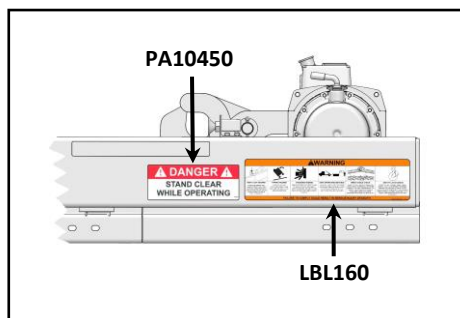
\*Do not operate the system with worn or missing labels. Maintain all safety labels in good, legible condition. Replaced missing or damaged safety labels with new labels which are available through your Swap Hogg dealer.

## Safety Label Locations

### DRIVER SIDE



### PASSENGER SIDE



LABEL #	QTY.
LBL160	2
LBL162	1
LBL164	2
PA10450	2
PA10460	1
P10025R	1
P10098R	1

# Warranty

## DownEaster Manufacturing's 5 Year Customer Satisfaction Warranty

DownEaster Manufacturing offers one of the most comprehensive warranties in the industry. DownEaster Manufacturing warranties each product against defects in material and workmanship for 60 months from in-service date:

- First 36 months (3 years) at 100% coverage
- Second 24 months (2 years) at 50% coverage

### **DownEaster Manufacturing Warranty on all Swap Hogg hoists and bodies includes:**

- DownEaster manufactured products
- The repair of warranted product
- Labor to replace warranted product
- Freight for replacement product
- Warranted product return freight (if required)

### **Paint Warranty on all DownEaster product applies as follows:**

- Primer applied to DownEaster product. Primer carries a six month warranty from the original invoice date from the DownEaster factory due to the shelf life of the applied primer.
- Factory applied top coat paint has a one year warranty.
- Paint Warranty does not include any primer or paint applied to the inside or understructure of any DownEaster equipment.

### **This warranty does not cover:**

- Diagnostics time
- Loss of use or any other downtime expense
- Travel time or rental unit
- Maintenance fluids
- Repairs due to inadequate diagnostics or installation
- OEM products or accessories purchased by DownEaster as part of or offered with our product will carry the OEM manufacturer's warranty

\*No warranty, of any kind, applies to products which have been damaged, or have failed because of neglect, lack of maintenance, service, lubrication, wear, misuse, accidental overloading, or improper installation. All warranty is limited to product supplied under the DownEaster Manufacturing name and does not cover any distributor modifications. Repair or replacement is at DownEaster's discretion.

\*Complete warranty details available by contacting DownEaster



