



Installation & Operational Manual Heavy-Duty Capacity 8 & 10 Yards Satellite Collection Unit.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter
www.perkinsmfg.com

800-882-5292

Revised: 8/16/23

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S8-B241 Specifications

Cart Weight Capacity	400 lbs **
Typical Mounting Application	Truck Direct Chassis Mount
Cycle Time of Dump Body	35 seconds at 8 GPM (up and down)
Recommended Pressure Setting*	2,200 psi at the pressure relief valve
Weight Capacity of Dump Body	8,000 lbs
Dump Angle	45 degrees from the horizon
Mounting Height	Pick-up truck bed height approx. 33 ¾" off ground
Approximate Unit Weight (not counting packaging)	4000 Lbs.
Fully Loaded SAT weight with trash	4000 + Not to exceed 8000 Lbs.= 12000 Lbs.
Warranty	1 year ***

S10-B241 Specifications

Cart Weight Capacity	400 lbs **
Typical Mounting Application	Truck Direct Chassis Mount
Cycle Time of Dump Body	35 seconds at 8 GPM (up and down)
Recommended Pressure Setting*	2,200 psi at the pressure relief valve
Weight Capacity of Dump Body	10,000 lbs
Dump Angle	45 degrees from the horizon
Mounting Height	Pick-up truck bed height approx. 33 ¾" off ground
Approximate Unit Weight (not counting packaging)	4600 Lbs.
Fully Loaded SAT weight with trash	4600 + Not to exceed 10000 Lbs.= 14600 Lbs.
Warranty	1 year ***

Perkins regularly makes product improvements. Specifications are subject to change without notice.

** Do not lift more than the recommended amount printed on the cart by the cart manufacturer or damage or injury may result.

*** See Warranty page for full details of coverage



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Compatibility



Please be sure to use a pick-up truck with a chassis capacity of 12000 lbs minimum of payload for an 8 yard, and 14600 lbs. minimum of payload for 10 yards. Please add to the payload chassis capacity weight, any other equipment planned to use. The bed floor should be approximately 33 3/4" from the ground. The brakes and suspension should be sized appropriately for these loads.



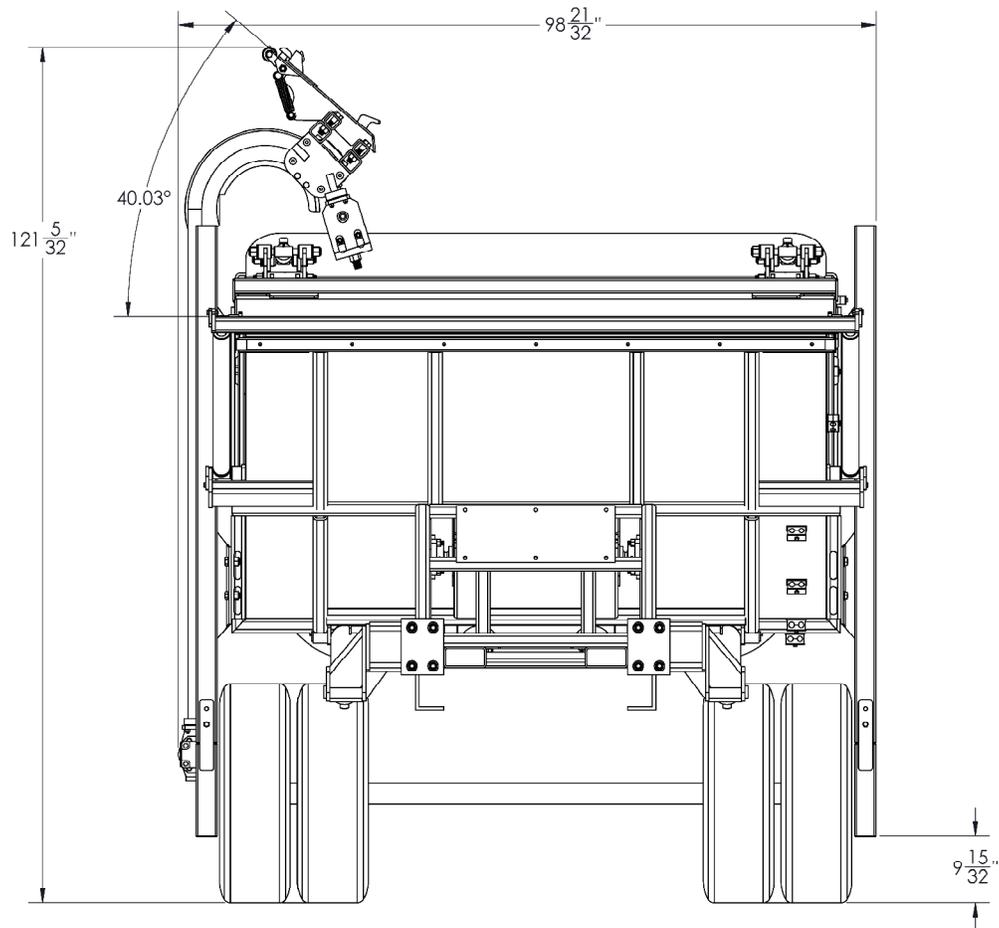
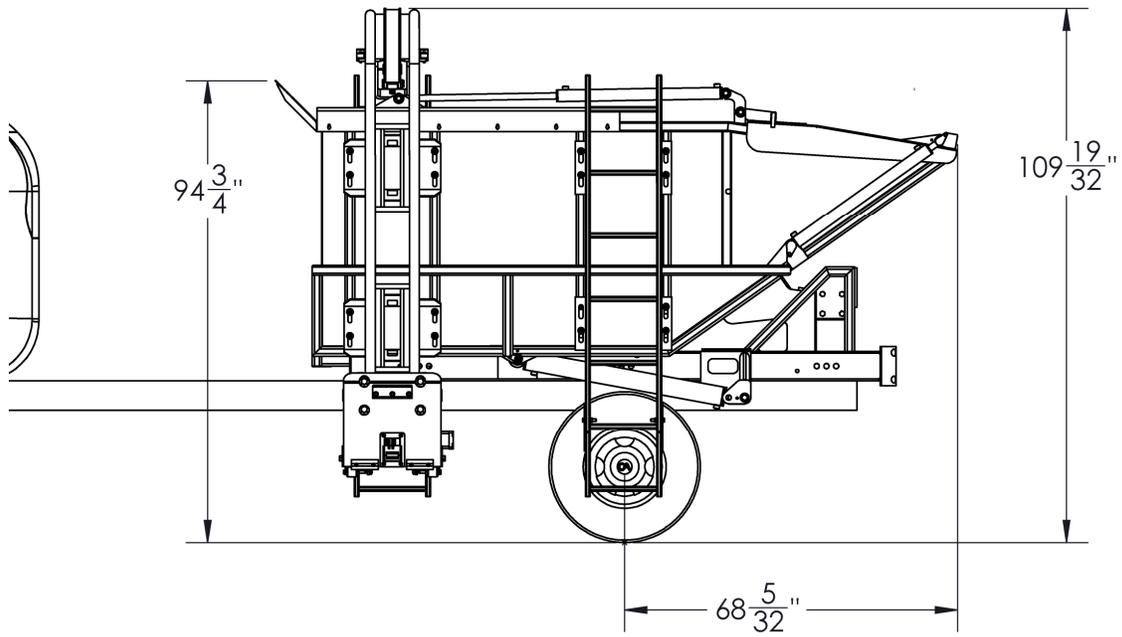
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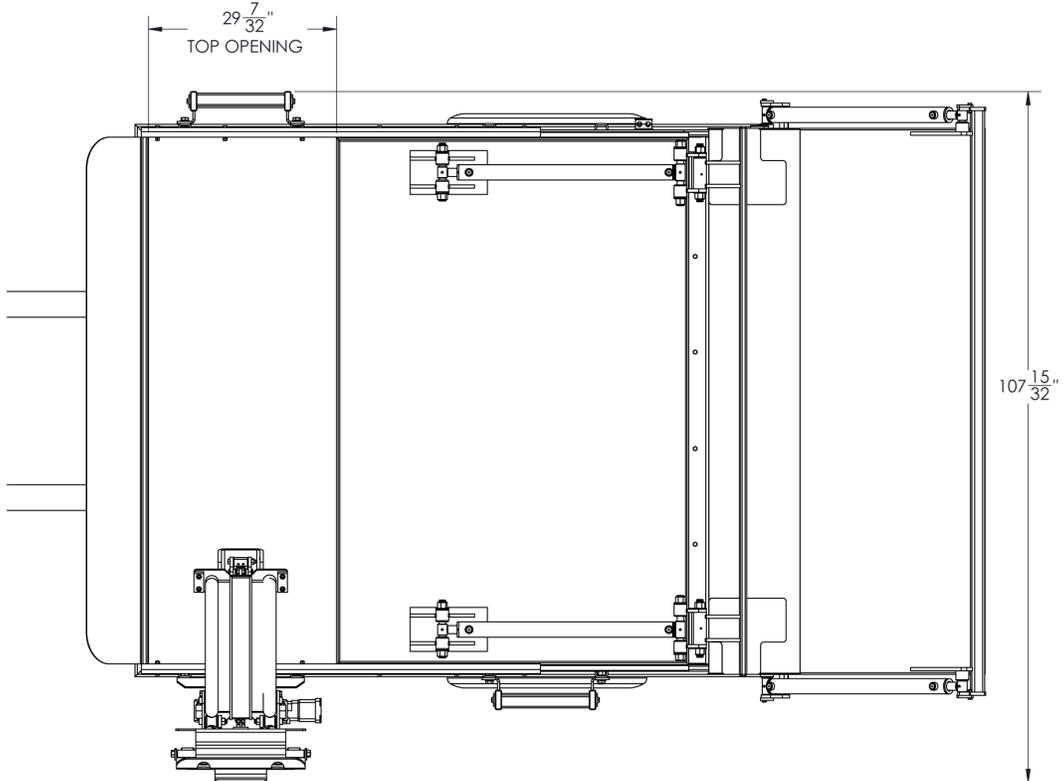
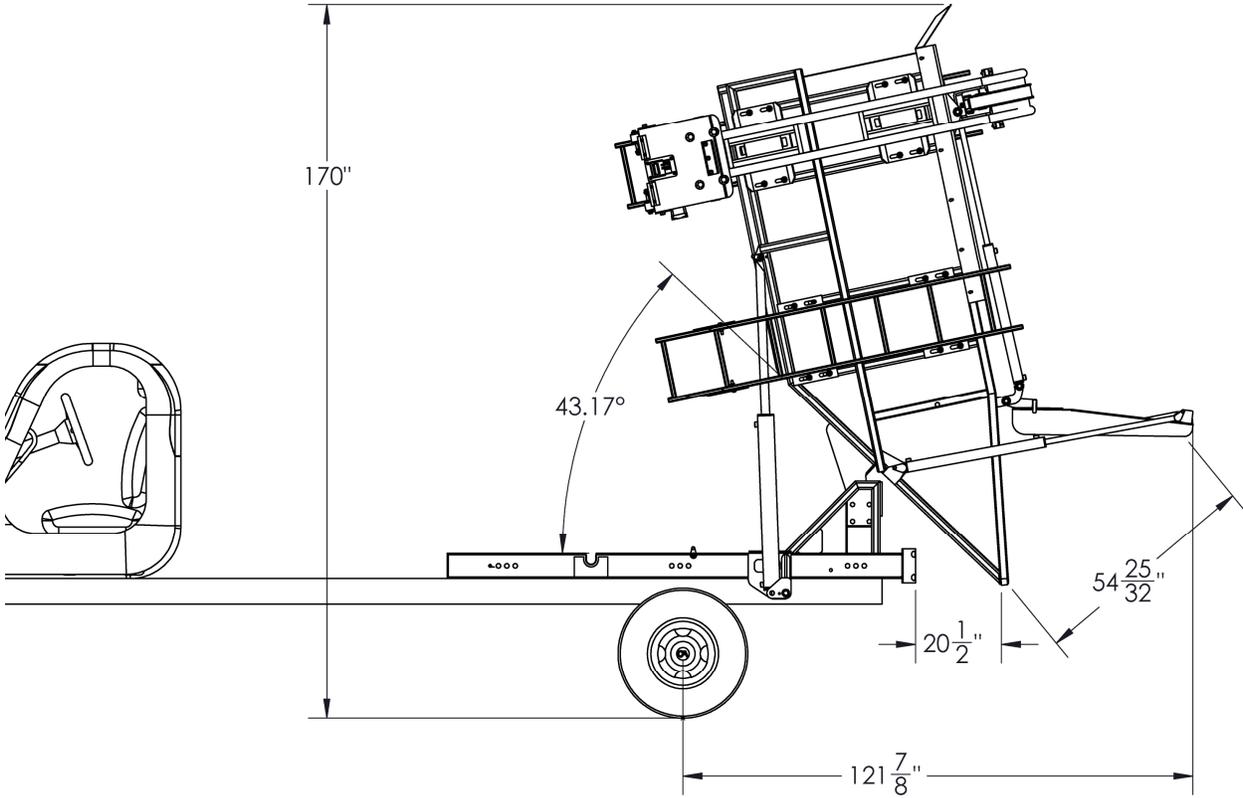
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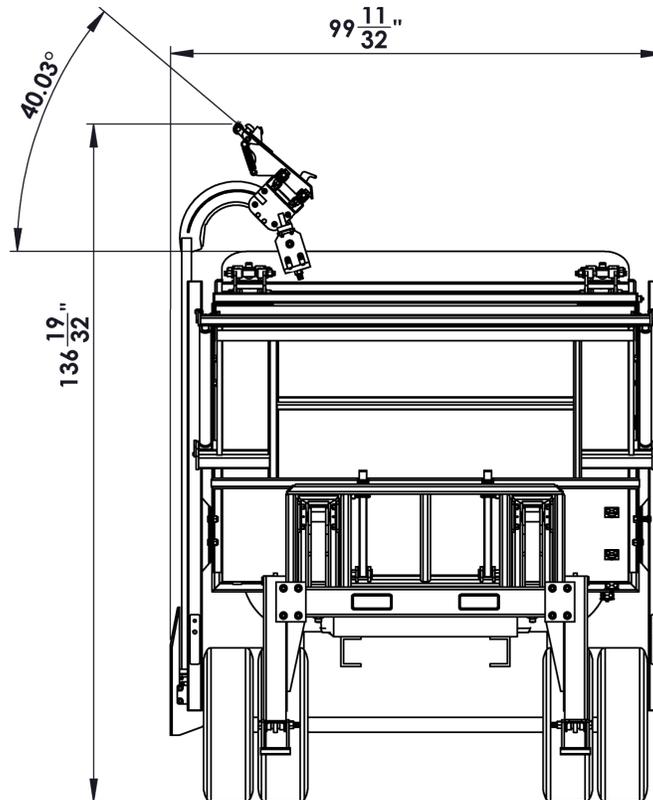
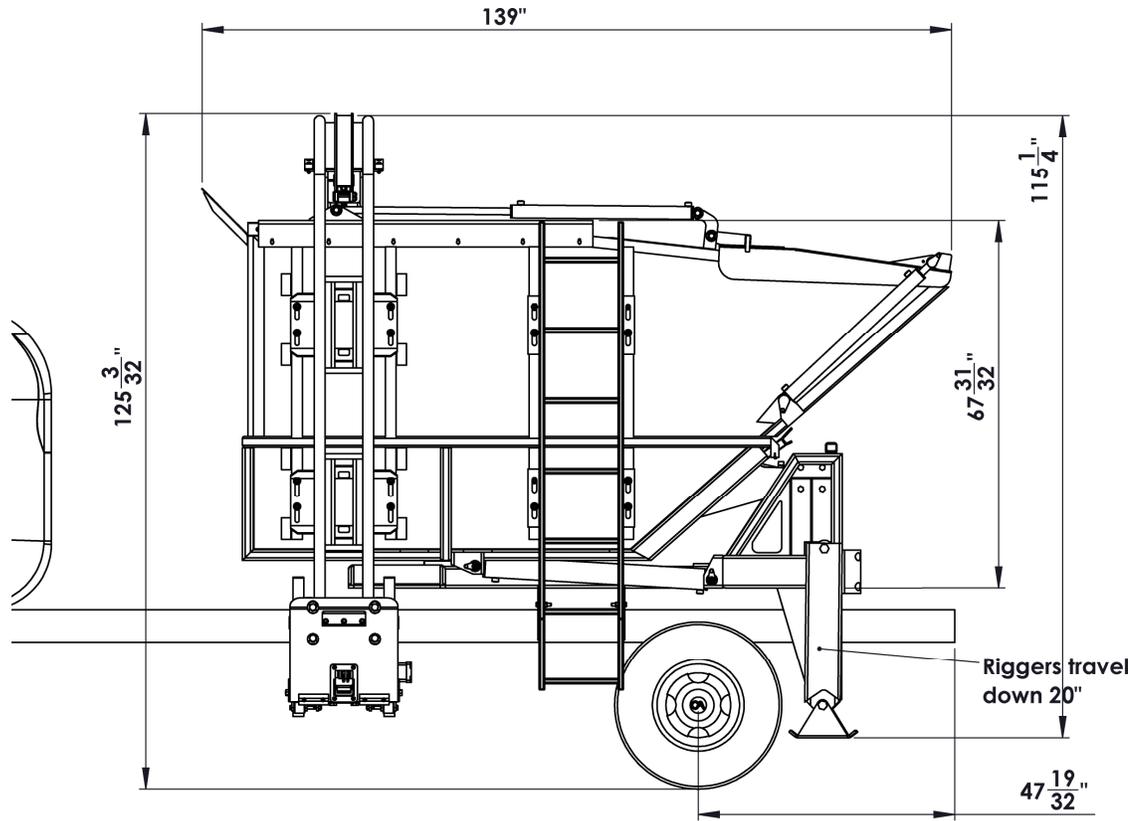
Overall Dimensions 8-yard Body



Overall Dimensions 8-yard Body



Overall Dimensions 10-yard Body

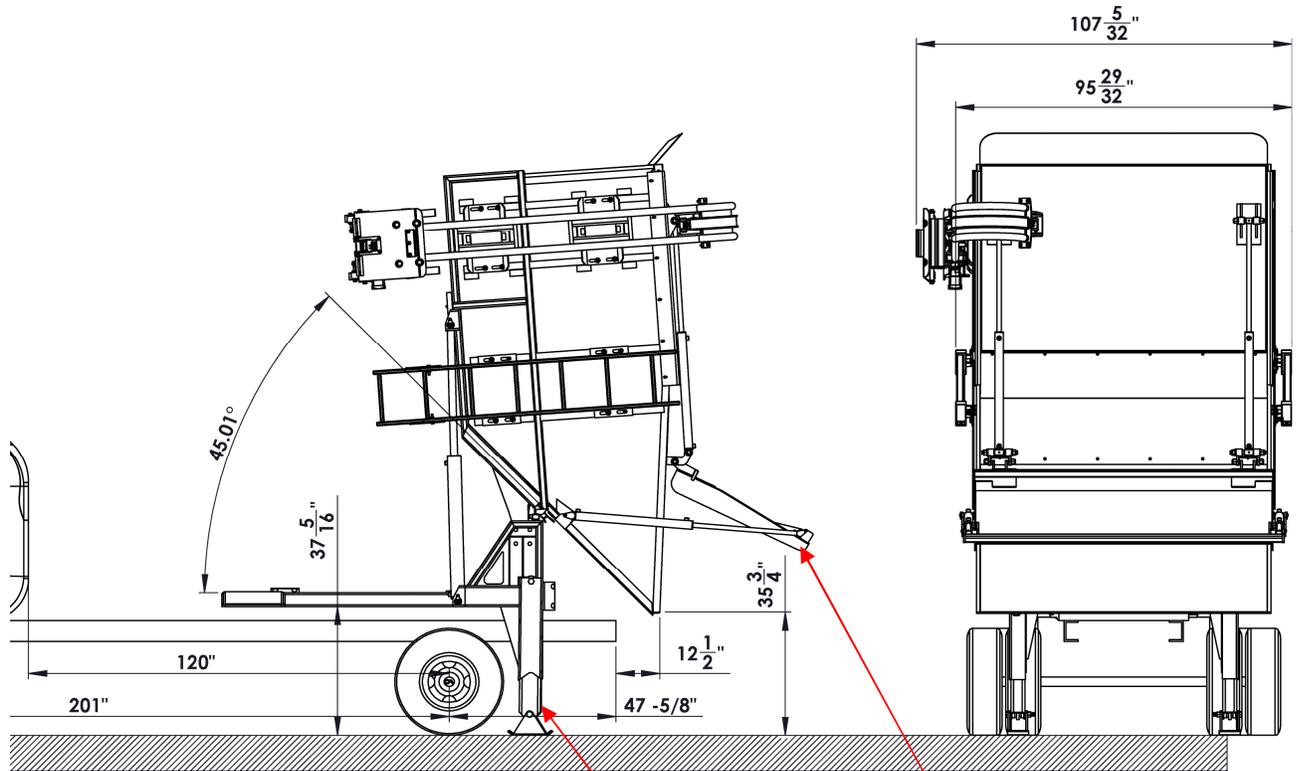


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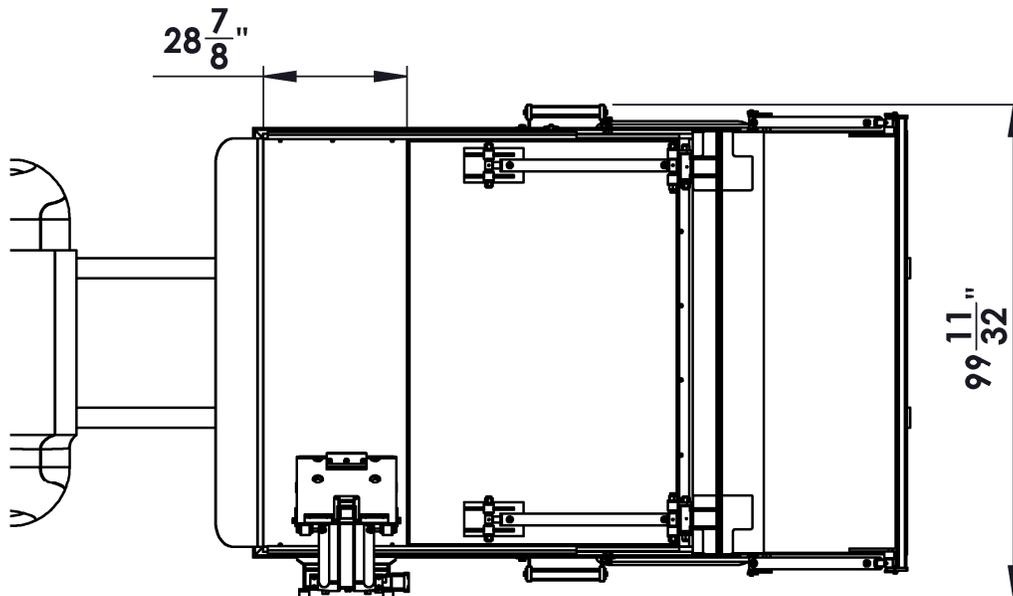
Overall Dimensions 10-yard Body



**OUTRIGGERS MUST BE
DOWN WHEN DUMPING!**

**D39770 SWIVEL DOOR MUST
OPEN BEFORE DUMPING**

ONCE THE SAT POSITION IS DETERMINED, IF THERE IS EXTRA CHASSIS RAIL IT MAY NEED TO BE TRIMMED. MEASURE CAREFULLY!



Cart Types



ANSI Type B carts (US-Style two-bar carts) with a dimension of 14 ¾" - 15 ¼" bar to bar spacing.



ANSI Type C Carts (European-type) Using an upper lip for lifting. Height to ground varies with size of cart.



ANSI Type D Carts (Diamond-Type)
(These are discontinued)



ANSI Type G Carts (Automated Collection) Having a rounded body ideal for gripper arms to clasp around.

Note: Some ANSI Type B carts are also Type G compatible, but some carts, particularly older designs, are not. This affects gripper-arm type of lifters that rely on grasping the cart around it's body. If using a gripper arm type of lifter, check your carts and see if they have rounded corners (look for approximately 6" radius). If so, they are likely ANSI Type G compatible.

Key Hydraulic Components



OBSOLETE AS OF
NOV. 2014

PO Check Valve



Adjustable Flow Control



Hydraulic Motor

Valves are sold separately or as part of a tap-in kit. The valves are shown for reference / identification purposes only. Your specific installation may require other equipment not shown.

*Cane lifters require a PTO with 8-10gpm. **PTO installations REQUIRE a truck that comes "PTO-ready" from the factory.** "PTO-ready" refers to the transmission having a window/panel for the PTO to be installed into. If your transmission is not PTO-ready, then a PTO cannot be installed without changing the entire transmission! Order your truck carefully to include the PTO-ready option! Make sure to speak to your dealer about adding AUX switches and any special programming required by the addition of the PTO-ready option. Switches and programming must be performed by the dealer!*



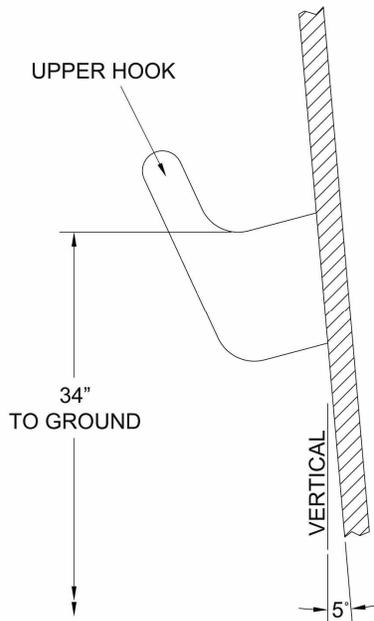
Please read this manual prior to installing, repairing or using this cart lifter.

- ✪ Installation of this equipment requires welding, painting, grinding, torching and working with high- pressure hydraulic systems. The appropriate safety equipment / PPE should be used at all times.
- ✪ Always follow OSHA specified lock-out procedures while working with a truck.
- ✪ Always use proper lifting equipment when positioning equipment during installation.
- ✪ Always use a chain or strap to secure the lifter in the upright position during the installation process. Unsecured lifters may fall suddenly causing injury.
- ✪ In the event that you are welding, clear the work area of flammable materials.
- ✪ Do not weld on the truck unless a ground is in place and the battery is disconnected.
- ✪ Do not open/loosen any hydraulic lines unless the system is off and depressurized.
- ✪ Always double-check hydraulic fittings and hoses for tightness prior to reactivating the PTO.
- ✪ Relocate the license plate or any lights that might be obstructed by the tipper or dump body.
- ✪ Do not paint over caution and warning labels. Replace any labels which have become unreadable or lost.
- ✪ Do not operate the dump body function unless the mounting brackets are fully anchored to the truck bed.
- ✪ Take care when operating the dump body. Be sure to only operate it on a smooth level surface. Sloped terrain could lead to unbalancing the truck.
- ✪ Do NOT operate this product unless you have read and understand the hazards of this kind of equipment. Review all safety labeling within this manual and on the product. Serious injury or death can occur if this product is not used in a safe manner. Train all employees who will use this equipment in the safety guidelines and remember to train new employees as well.
- ✪ If there are any questions about the proper installation or use of the cart lifter not covered in the manual, it is recommended to call Perkins at 800-882-5292.



Always work on a smooth level surface with an EMPTY truck.

Determine the Mounting Height



Upper hook mounting height

US – Style Hook Lifter

The mounting height is critical to the proper function of any cart lifter. The ideal location for the upper hook is 34" off the ground, when the lifter is positioned so that the faceplate is 5 degrees tilted back from vertical as shown in the diagram at left.

A cart lifter which has been positioned too low may kick carts away before successfully engaging them.

A cart lifter which is mounted too high will make it difficult for the operator to latch the cart at all, causing the operator to have to lift the cart onto the latch.

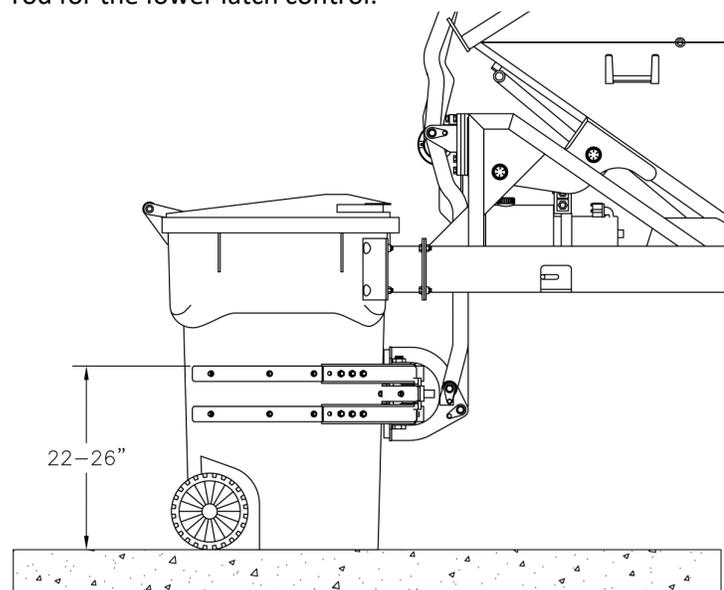
A good mounting height will make latching carts effortless with no lifting or holding the cart in place.

Adjust the driver and idler arm length in order to achieve this 34" dimension. When performing this adjustment, it will be necessary to also adjust the length of the plunger rod for the lower latch control.

Grabber-Arm Style Lifter

The mounting height of the gripper arms lifter is variable. The top of the gripper arm should be between 22 and 26" from the ground.

There is no adjustment necessary for this type of tipper.

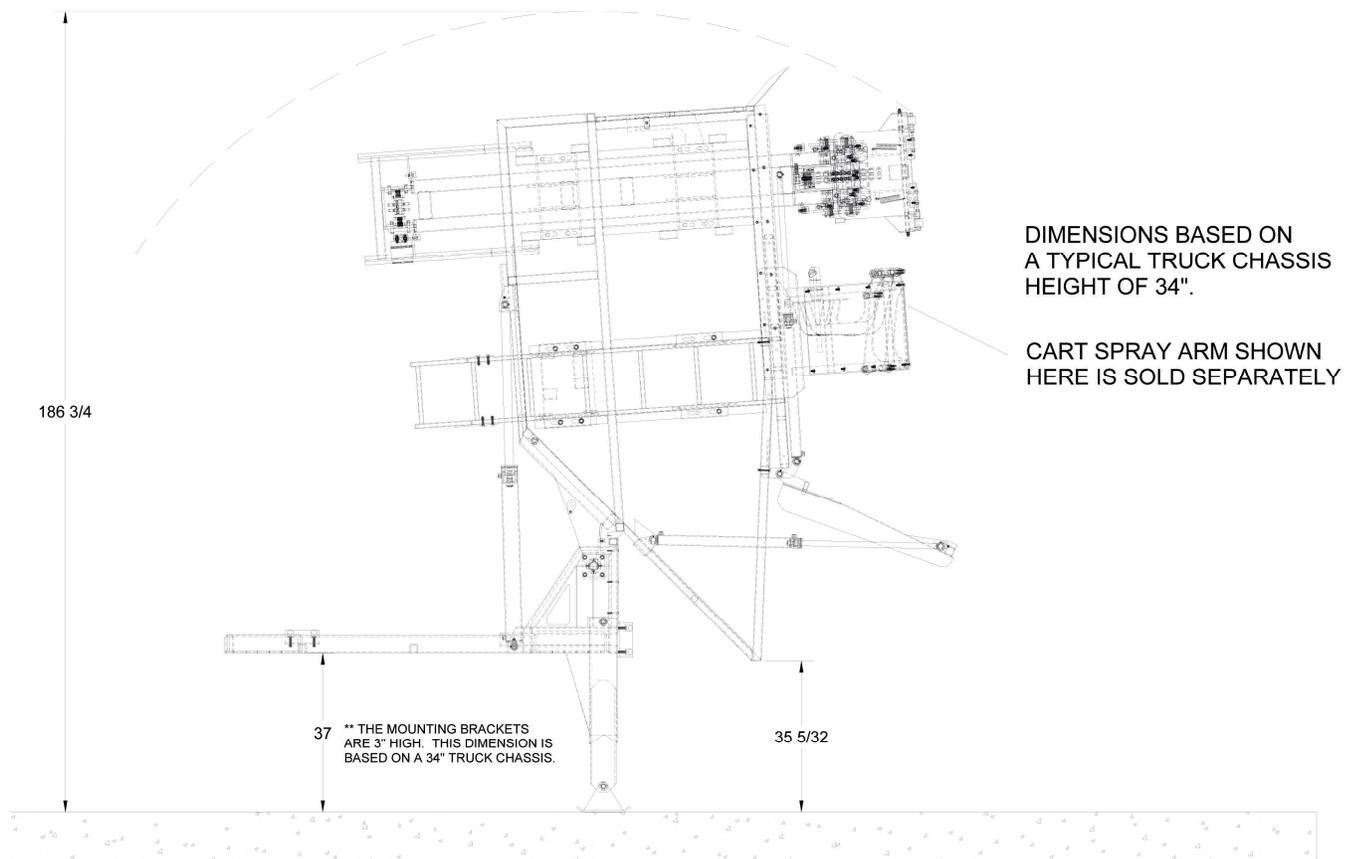


DO NOT OPERATE THE DUMP BODY INTO THE DUMPED POSITION UNLESS THE BASE WELDMENT IS SECURED TO THE PICKUP TRUCK WITH THE MOUNTING BRACKETS FIRMLY IN PLACE & ANCHORED TO THE BED.

The dump body does get high when in the dump position. Be cautious and make sure there are no overhead obstructions, or overhead cables above the dump body while raising it.

The mounting bracket behind the cab simply hold the base down. The pull pins towards the rear of the truck will secure the machine from sliding or moving.

If truck chassis frame is wider than D48506-2 mounting holes a custom lower plate must be made for proper mounting.



**ALWAYS CHECK FOR OVERHEAD OBJECTS AND POWER LINES.
OPERATE DUMP BODY ON LEVEL TERRAIN ONLY, WITH THE OUTRIGGERS DEPLOYED.
ONCE THE OUTRIGGERS TOUCH THE GROUND, STOP. DO NOT PRESS FIT THE TRUCK'S FRAME.
NEVER DUMP THE BUCKET WITH THE DUMPING DOOR CLOSED.**



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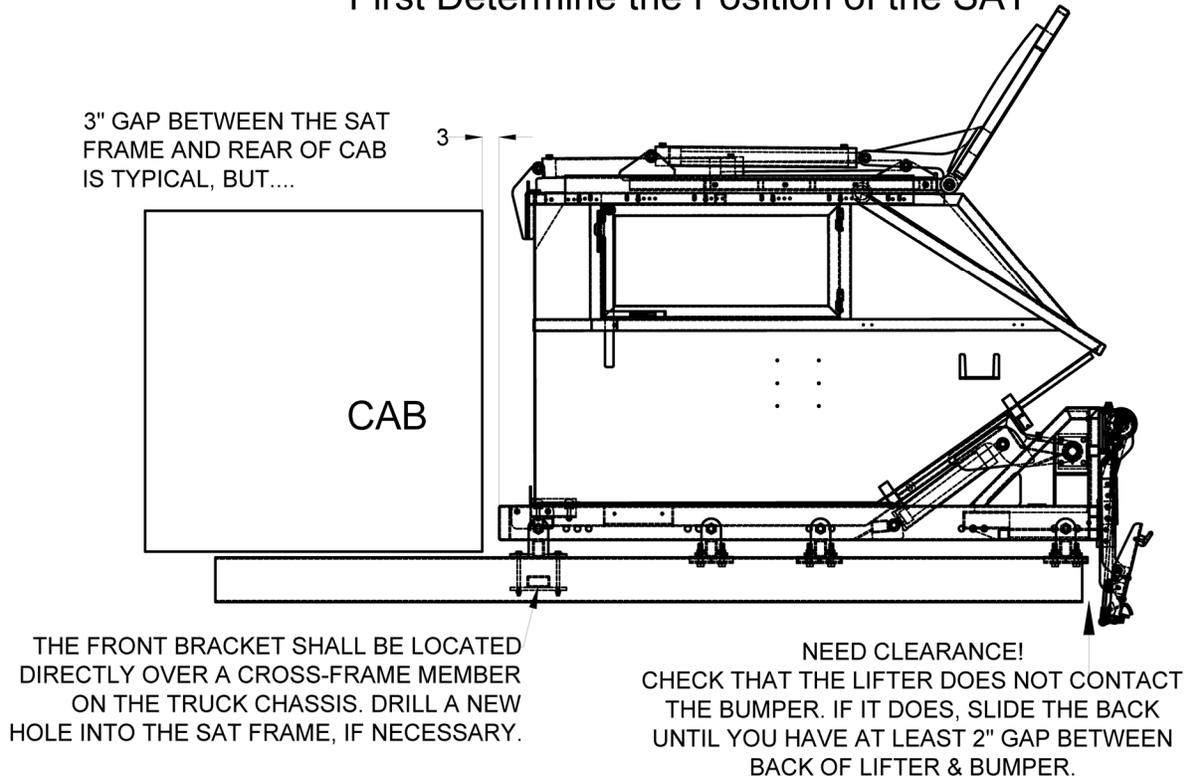
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CHASSIS MOUNTING INSTRUCTIONS

First Determine the Position of the SAT



*THE SAT FRAME IS PRE-DRILLED, BUT DUE TO VARIATIONS IN THE TRUCKS, IT MAY BE NECESSARY TO DRILL A NEW HOLE THAT BEST SUITS YOUR INSTALL.

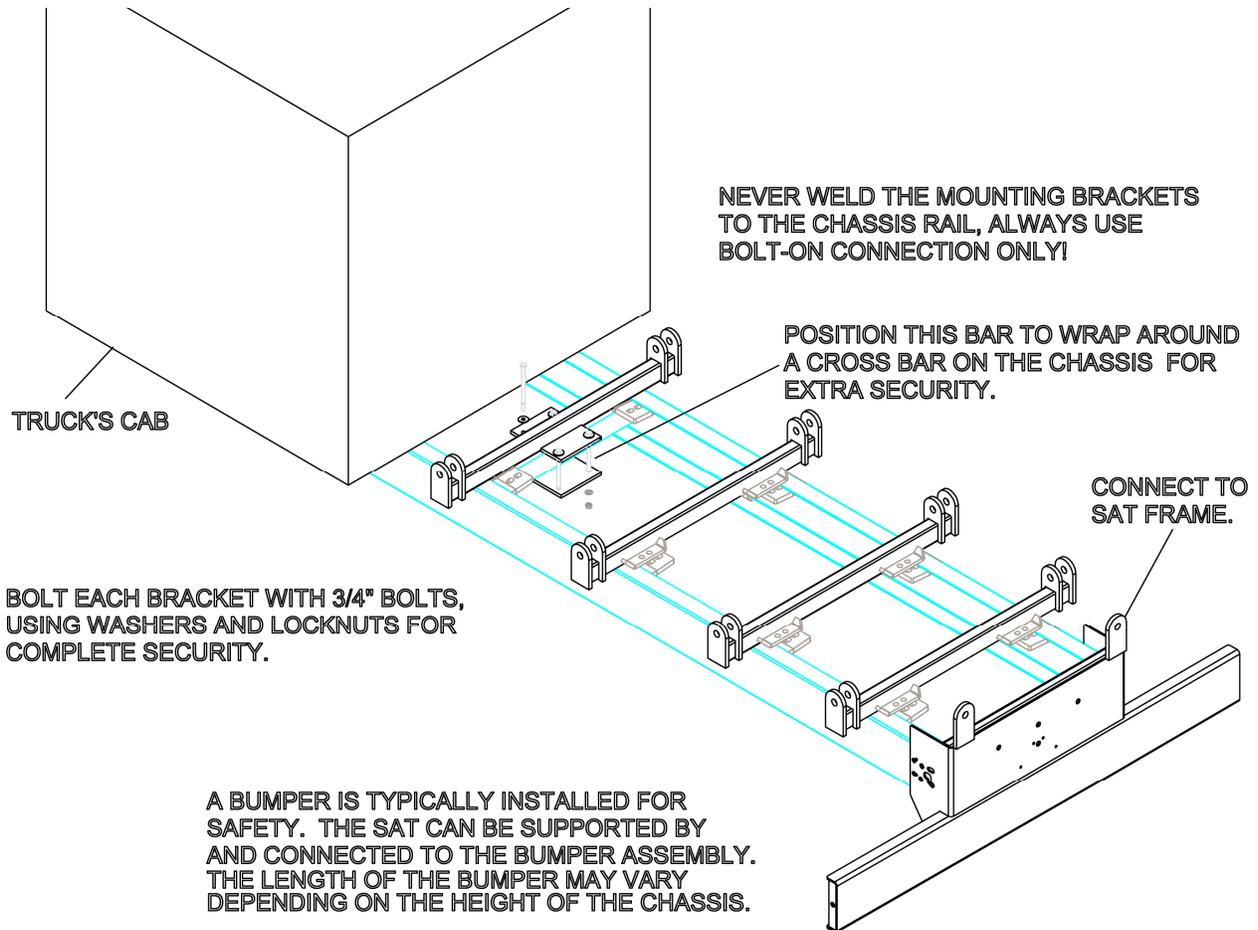
Always have mounting support as close to the end of the SAT (under the main pivot point) as possible. This position will vary from truck to truck as needed, but support under the main pivot is required. Position the brackets to avoid existing components on the chassis rail (like suspension parts for example).

Some trimming of the excess frame rail may be required, depending on the desired gap between the cab and the SAT and the starting length of the chassis rail/wheelbase of the truck. Measure carefully before cutting the chassis rail!

Never remove or relocate any suspension parts, brackets, lines, cables, etc which have been installed by the truck OEM. (Lights can be relocated as needed)



CHASSIS MOUNTING INSTRUCTIONS

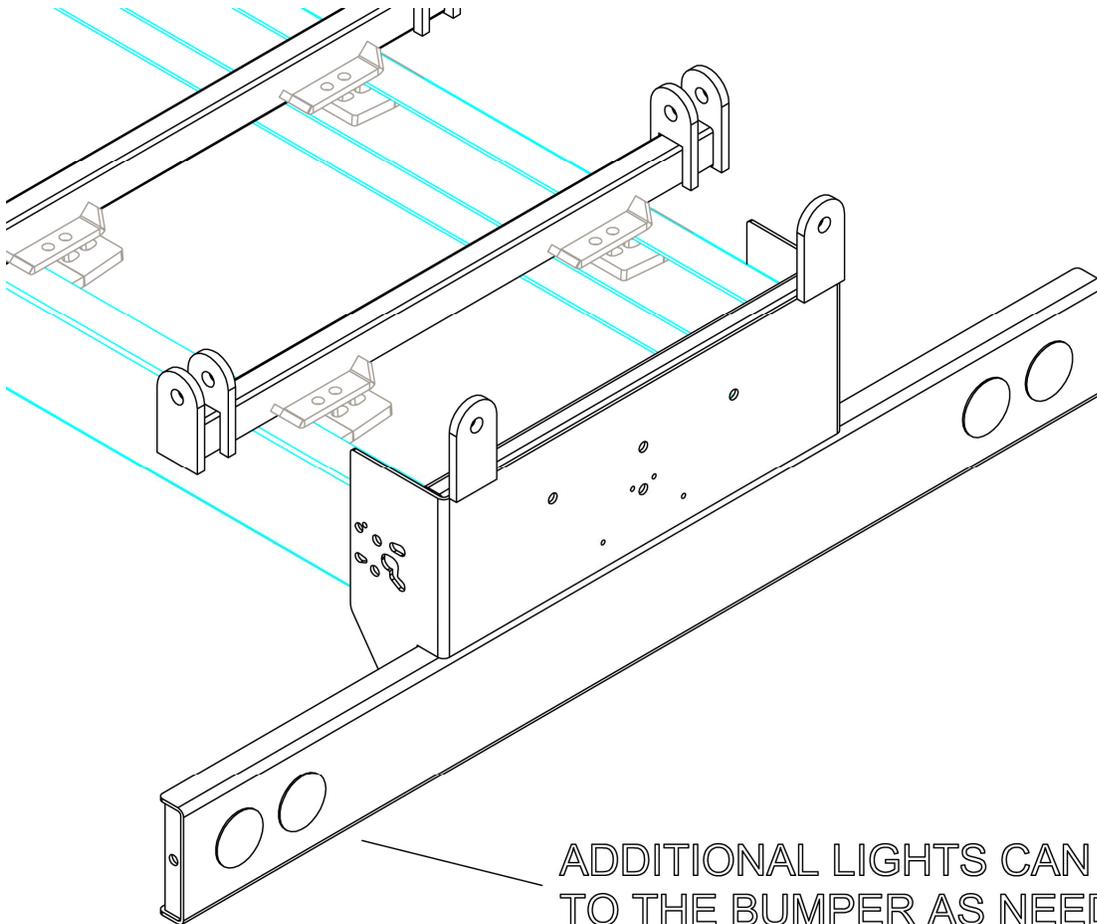


Always mount the bumper D50401hd to the end of the frame and joint it to the SAT base frame with the hardware. It supports the base frame during dumping operations.

Due to the differences in vehicles, the exact placement of the mounting brackets can vary a few inches one way or another. The mounting brackets should be positioned to not interfere with any OEM-installed component connected to the chassis rail (such as spring suspension parts, tanks, brackets, lines/cables/hoses/wires etc). Sometimes drilling a new mounting hole in the SAT base frame is necessary to accommodate the position needed.



CHASSIS MOUNTING INSTRUCTIONS



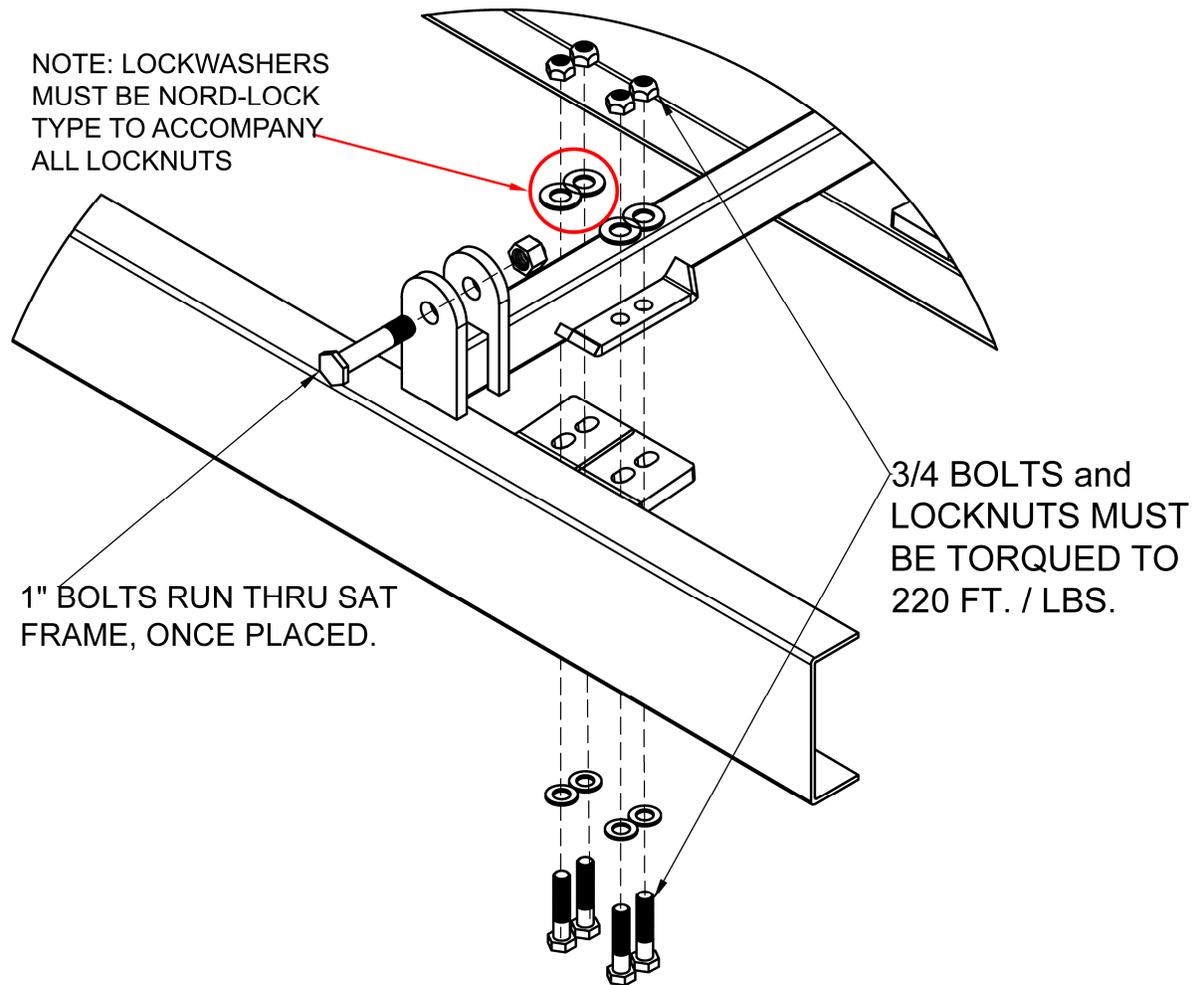
The Perkins bumper comes with x3 1" red lights in the center, and one 1" light on either end. It includes license plate mounting holes, license plate light. Extra lights can be mounted to the bumper (optionally).

Extra mounting support is part of the bumper to help secure the base frame of the SAT, especially when dumping.

Additional lights can be cut into the bumper, or bolted onto the bumper as desired.



CHASSIS MOUNTING INSTRUCTIONS



Never weld mounting brackets to the truck chassis rails. Chassis rails flex during driving, which will crack the welds. Only bolts should be used.

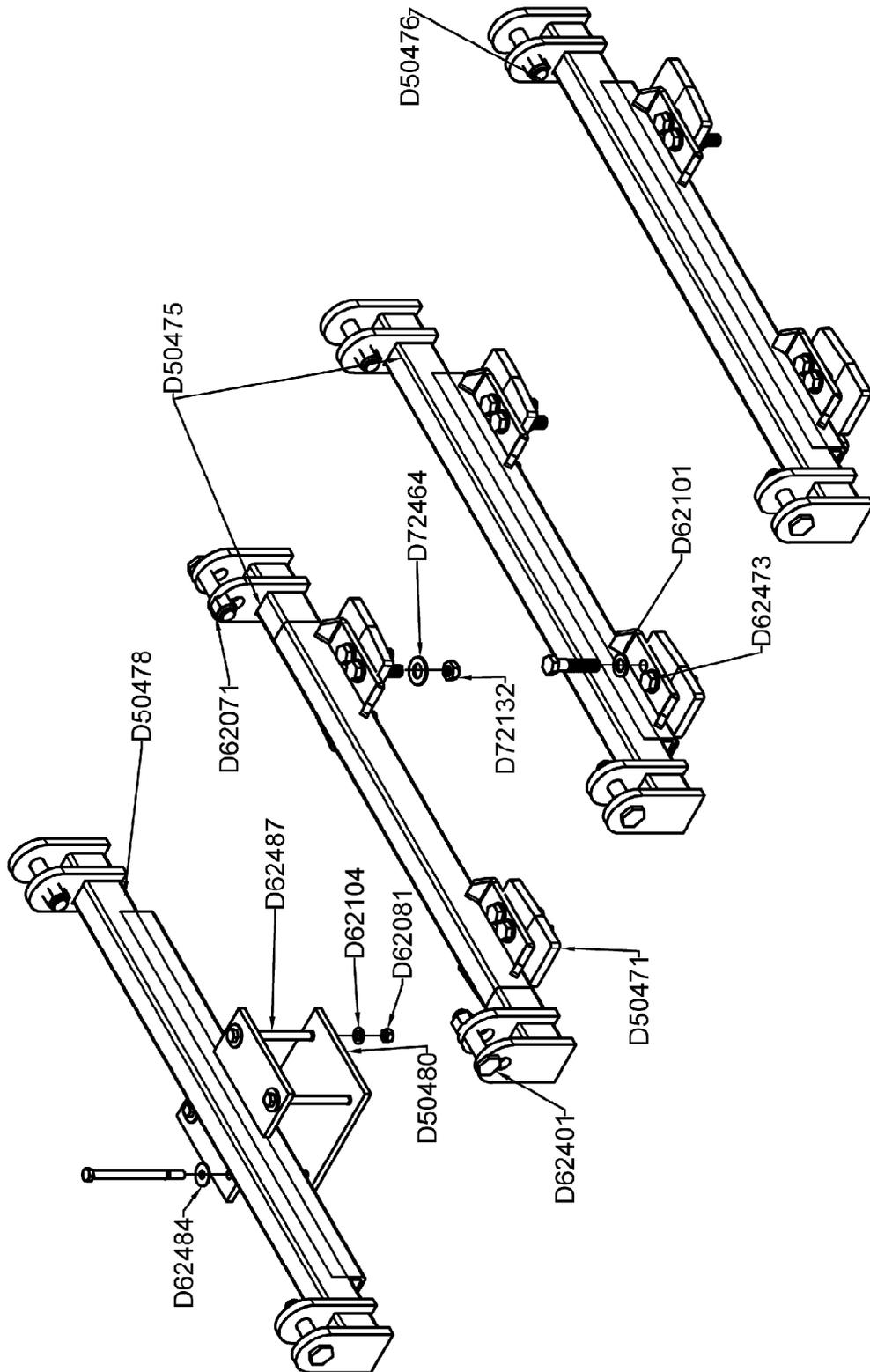
Never drill or cut into the top or bottom of the chassis rail flanges. This will weaken the rail and cause it to break.

The Perkins mounting system does not require any welding or drilling into the chassis frame rails. Our system uses clamping action to secure the frame to the rails.



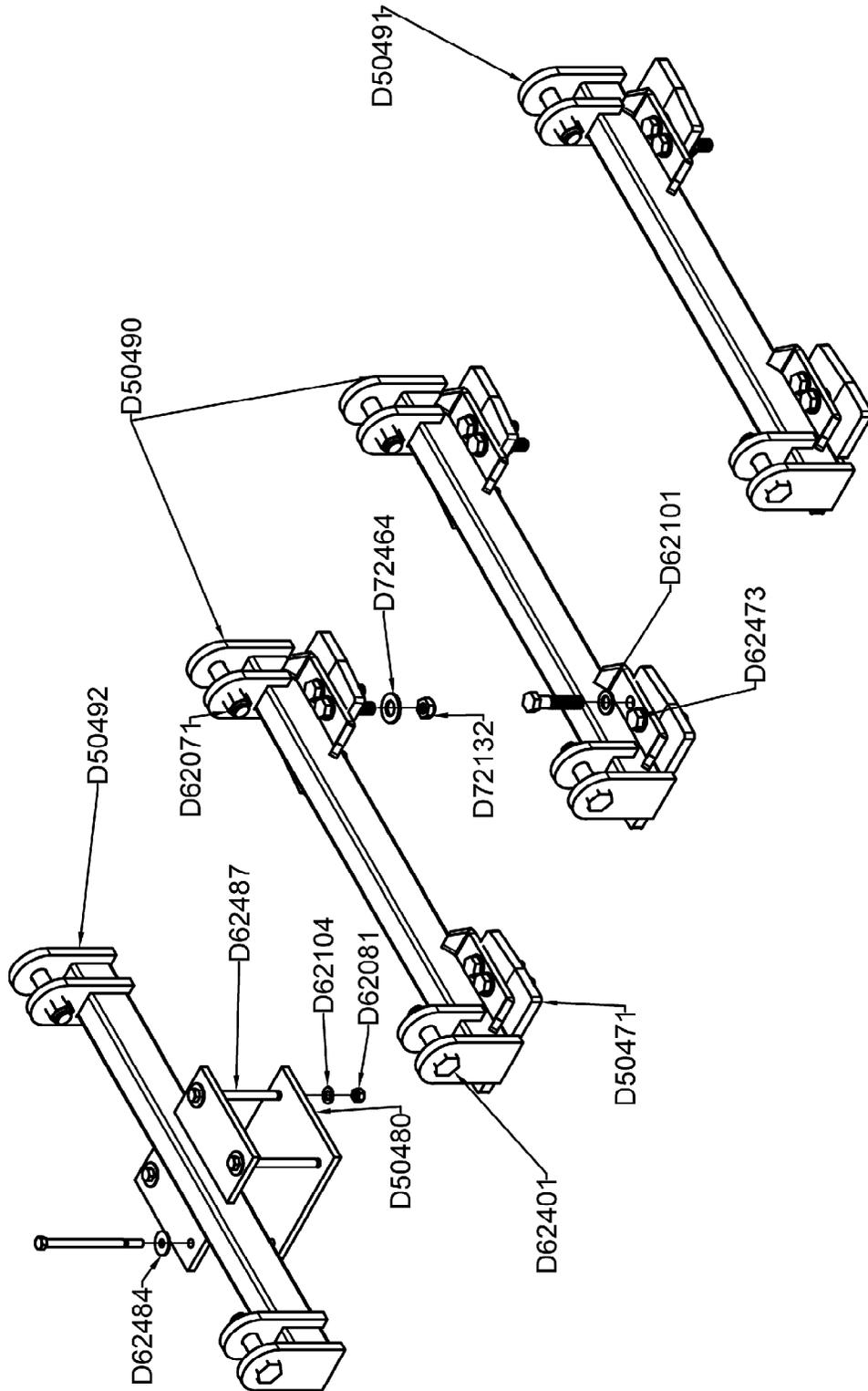
D50477 – Exploded View

*Most commonly used; for chassis mounted SAT frames of 45”



D504477-34 – Exploded View

*Used only with chassis mounted SAT frames of 34”



Hydraulic Oil

The most important component of any hydraulic system is the oil. Perkins cart lifters use standard seal materials and should therefore be compatible to most grades of hydraulic oils, operating in typical weather conditions for most of North America. However, the condition of the oil is an important consideration that should not be overlooked.

Hydraulic oil may be dirty, contaminated, lost its viscosity, burned up, or have too high a concentration of absorbed water and/or air. While these things are unlikely to cause an immediate performance issue with your cart lifter, these issues can lead to premature wear and tear in the longer term.

Perkins would like to take this opportunity to remind you to check the quality of your hydraulic oil periodically and make sure it meets your standards. Oil that is maintained in good condition will help your equipment last longer.

Lifter Speed

The cycle time of the lifter is very important for safe operation. Perkins suggests a complete cycle time of 35 seconds (17 seconds up and 17 seconds down). Faster cycle times may be dangerous. Running a lifter too fast can damage the cart, or make a cart break loose off the lifter and fall, resulting in damage and/or injury.

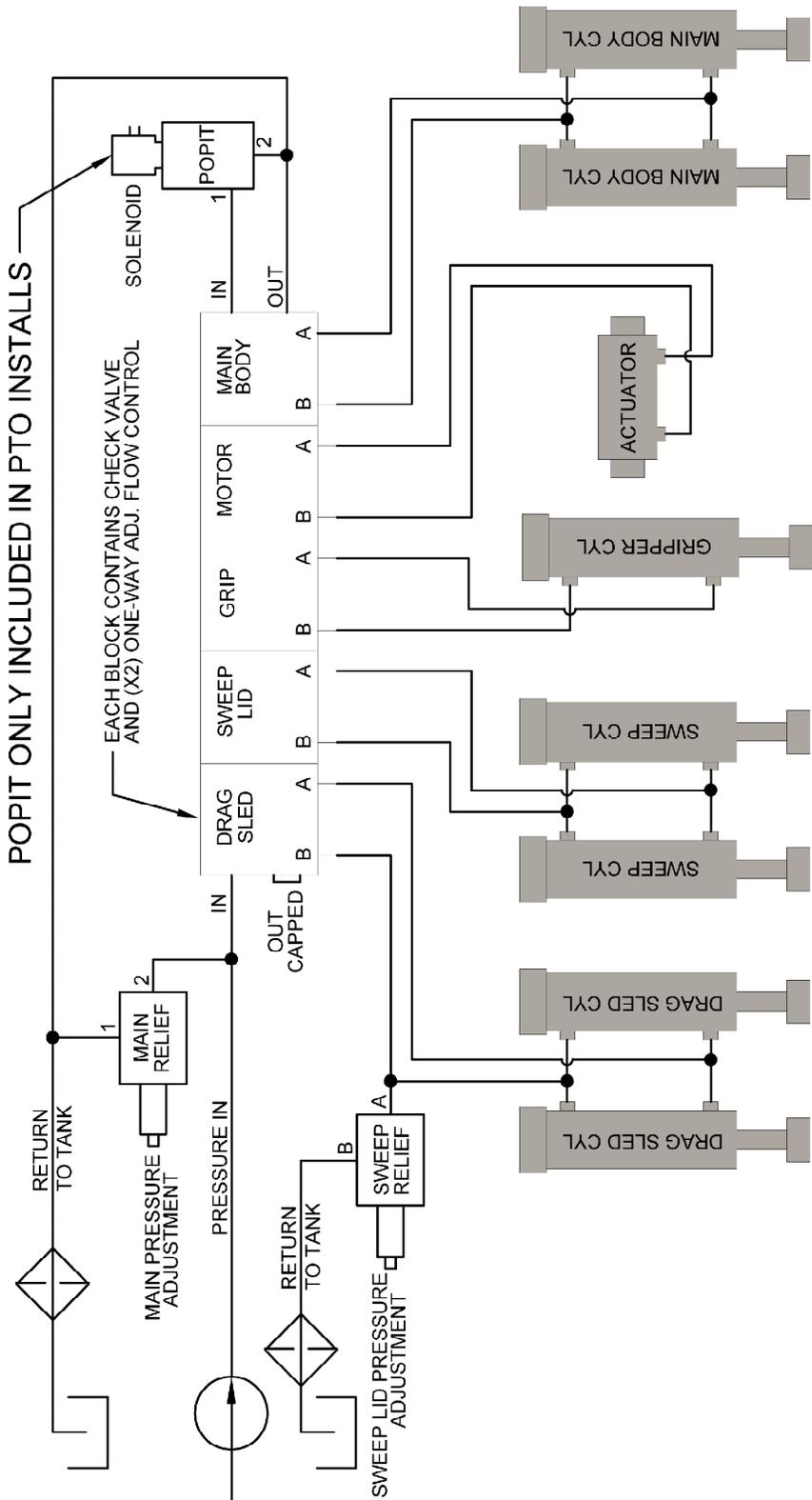
Count the cycle time using a stop watch to determine proper flow rate. Running a lifter too fast will void the warranty.

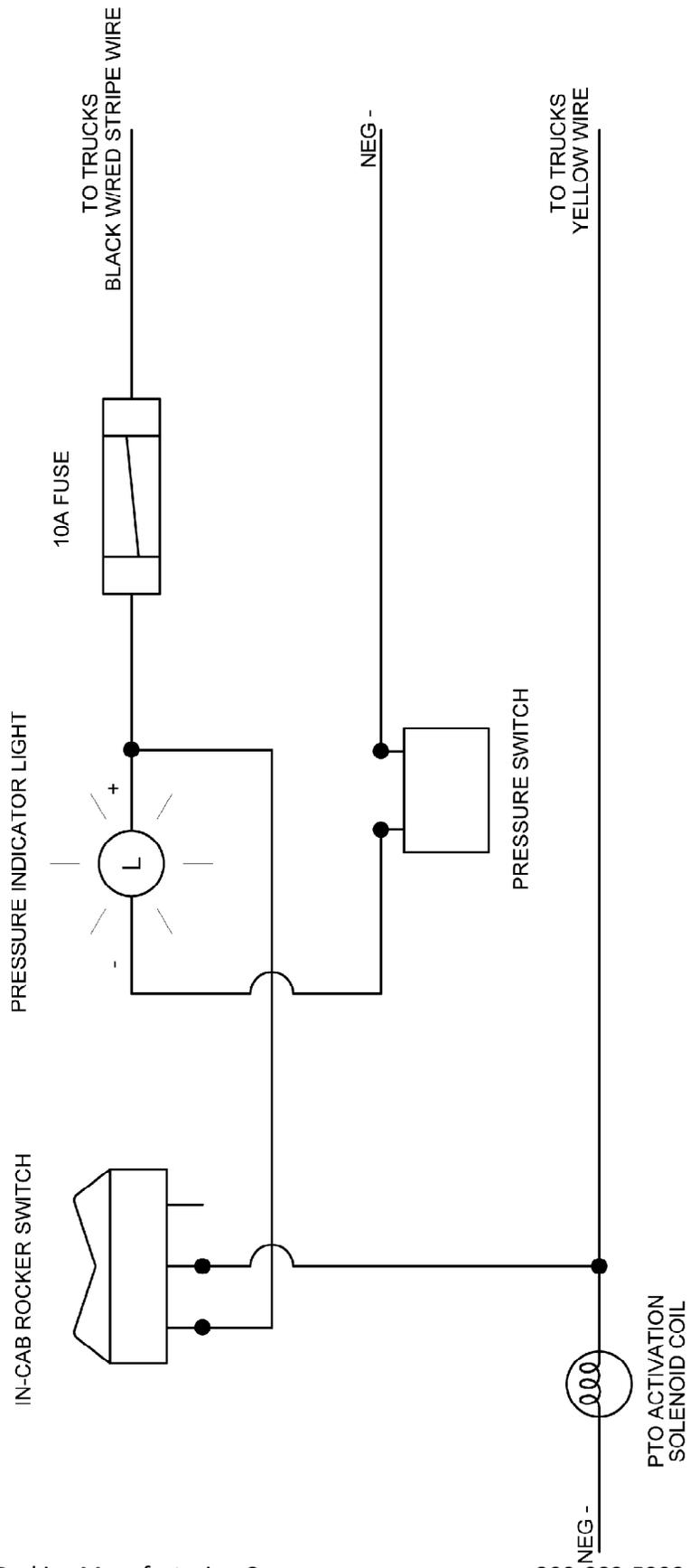
Weight Capacity

The maximum amount of weight that can be lifted is limited by the pressure relief valve. The settings must be determined with a pressure gauge. The lifter requires 2150 psi to lift a 400 lb load. Place a pressure gauge after the hand valve and run the actuator until it stops, continue activating the handle and note the pressure on the gauge. Adjust the relief valve according to the manufacturer's instructions.



Perkins Hydraulic Schematic





Maintaining the PO Check Valve (OBSOLETE NOV. 2014)

PO Check Valve: D63580

The valve locks the oil from escaping unless the hand control is activated. This locks equipment in position and prevents drifting when equipment is idle. It also acts as a safety, in the event of a broken hose, the valve stops the movement of the equipment.

This valve is not adjustable.

This valve requires no periodic maintenance.

If a problem is traced back to the PO check, turn off the system and remove the cartridge. Clean and inspect for damage. Replace cartridge if needed, flush the valve, rebuild and install.



This valve is redundant as is removed from builds constructed after Nov. 2014

Maintaining the Adjustable Flow Control



Adjustable Flow Control Valve: D63575

The valve is located on the left-hand side port of the rotary actuator. It's purpose is to restrict oil coming out of the actuator when the lifter is moving back down. By restricting the oil, the lifter is prevented from "getting ahead" of the oil and slamming into the ground.

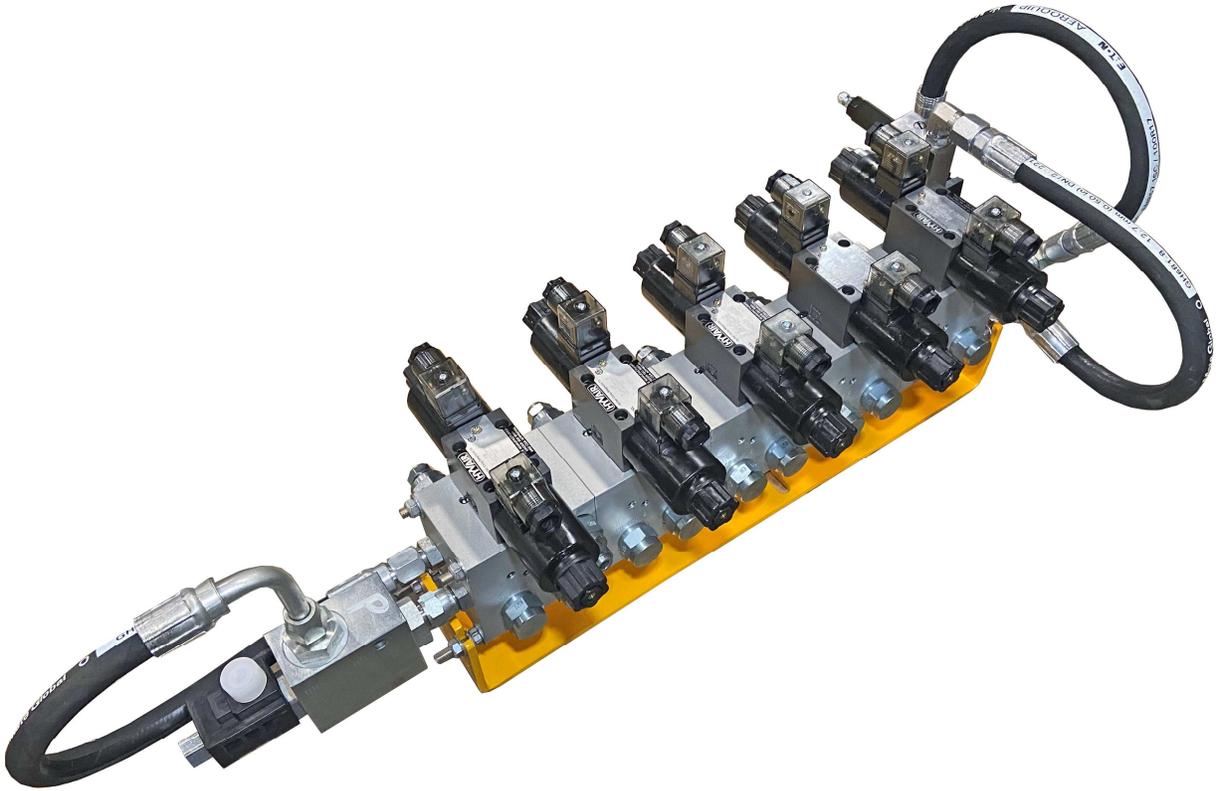
This valve only works in one direction, so adjusting it does not affect the speed of the upwards direction.

The valve has a small arrow stamped into its body. The arrow should point away from the actuator.

If the lifter comes down too quickly, try turning this valve in clockwise ¼ turn at a time until the down direction is smooth and under control.

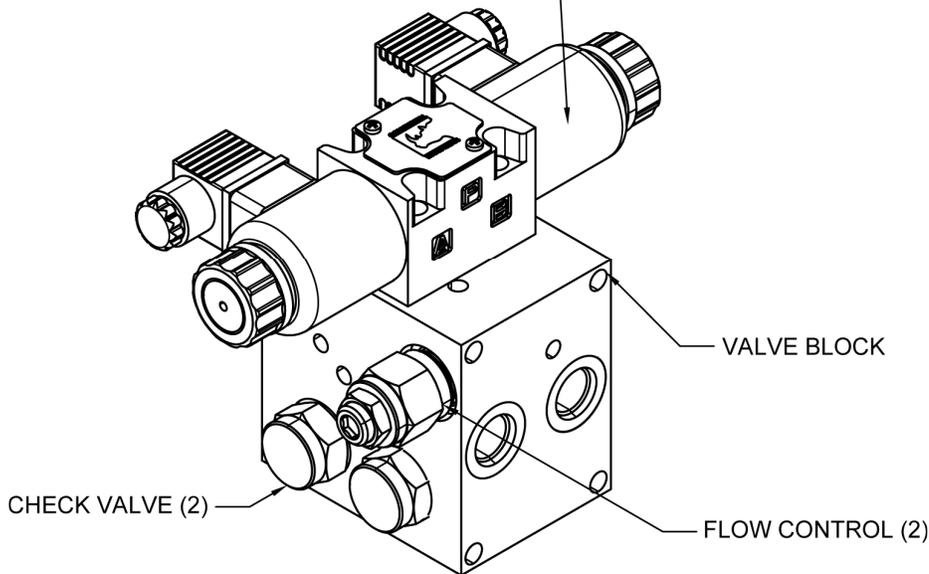


D72885 – Valve Bank



D72779 – Manifold Valve

D03 VALVE IS SHOWN FOR REFERENCE.
IT IS NOT INCLUDED IN THE D72779, DUE
TO THE NEED TO SWAP OUT TYPE
DEPENDING ON THE PROJECT.



SHOWN WITH D03 (SOLD SEPARATELY)



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D72885 – Valve Bank Parts list

Item	Description	Qty
D63061	ADAPTER #6MT - #8MO	9
D63780	ADAPTER #12MO - #8MT	2
D47095-1	#207 O-RING, INTERNAL HYDRAULIC SEAL	8
D47095-2	5/16-18 THREADED ROD, 12' BAR	8
D72246	BOLT HHCS 5/16-18 X 2 1/2 GR8, ZINC PLATED	2
A90270B	SOLENOID VALVE A,B TO TANK D03, OPEN CENTER, 12V	5
D72274	POPPET VALVE W/SOLENOID, NORMALLY OPEN, 12VDC 21 GPM MAX FLOW CAPACITY	1
D72779	MANIFOLD CONTROL VALVE FOR PTO OPERATION D03 COMPATIBLE (NOT INCLUDED) (REV A) (BUILT IN ADJUSTABLE FLOW CONTROL & PO CHECK)	5
D72813	ADJ. RELIEF VALVE, STAND ALONE, 20 GPM MAX, 100-4000 PSI MAX., #8 SAE PORTS, C10-2 CAVITY, PILOT OPERATED	1
D63090	ADAPTER #8MT- #8MO	3
D72330	ADAPTER #8FT - #8MO FEMALE JIC TO MALE SAE	2
D62030	LOCKNUT 5/16-18 GRADE 8 ZINC PLATED	12
D62029	SAE FLATWASHER 5/16 x .688 OD (ZINC PLATED)	4
D63551	TEE #8MO - #8MT - #8MT	2
D63639	ADAPTER #6MO - #8FT	1
D63209	TEE, #8MT - #8MT - #8FT SWIVEL NUT JIC SWIVEL RUN TEE	2
D63430	ADAPTER #8MT - #6MO	1
D63202	ELBOW 45°, #8FT - #8MT	1
D72528	REDUCER, #8FT - #6MT	1
D72708-18	#8 HYDRAULIC HOSE ASSY X 18" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	2
D73108	#8 HYDRAULIC HOSE ASSY, W/ X1 90° ELBOW ONE END ONLY X 18" LONG	1



Servicing the Perkins HKS Rotary Actuator

Perkins HKS 27k Actuator: D73060HKS

Common Parts: Seal Kit: D73060HKS-1 Actuator Shaft: D73060HKS-2 Bearing Kit D73060HKS-3

The manual for the actuator is provided separately and free of charge. It contains detailed instructions for rebuilding, based on a complete tear-down. Also, within the manual is a complete parts listing. To receive a copy of the actuator manual, simply call Perkins at 800-882-5292.

Flushing the Actuator

Because the oil displacement of the actuator is nearly equal to the displacement of the hoses, the oil inside the actuator does not fully displace to the system and get filtered with each use. Only a percentage of the oil displaces. Because of this, it is possible to have build-up of particles over time which can lead to premature wear, especially in dirty oil conditions. Perkins recommends flushing the oil in the actuator to the system to allow for complete filtration once every 6 months. This will help ensure the actuator has a very long lifespan.

To flush the oil, turn off / depressurize the system and connect a hose from one bleed port to the other. Tighten the fittings restart the pump. Run the hand valve back and forth several times, holding the handle down for about a minute each time. This ensures any particles have completely exited the actuator.

**BYPASS HOSE
USING THE #4
BLEED PORTS**



Flush the Debris from the Shaft Seal Area

USE HAND PUMP ONLY!

APPLIES ONLY TO ZERKS LOCATED ON THE ENDS OF THE ACTUATOR, AS SHOWN.

GREASE THIS ZERK EVERY 6 MONTHS
(ZERK LOCATED ON ACTUATOR)



USE OF HIGH PRESSURE GREASE CAN BLOW OUT THE SEALS, LEADING TO LEAKS/SEAL DAMAGE!

The actuator does not need greasing, as it is self-lubricated naturally from the internal hydraulic oil.

Nonetheless, grease zerks are provided on the ends of the actuator. These grease paths allow grease to come down and escape from the shaft seal area, flushing debris away from the shaft seal.

The purpose of this is to improve the life of the seal as well as aid in keeping the shaft greased for easy removal during servicing.

Perkins recommends greasing these points once every 6 months or as necessary for your environmental conditions.

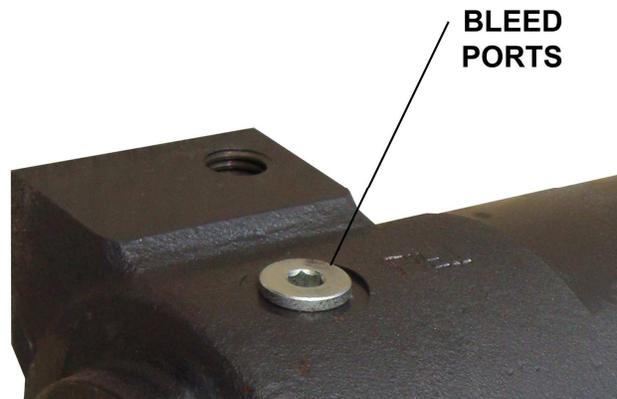
(Newer actuators have eliminated this grease zerk and greasing is not necessary)

Bleeding air from the Actuator

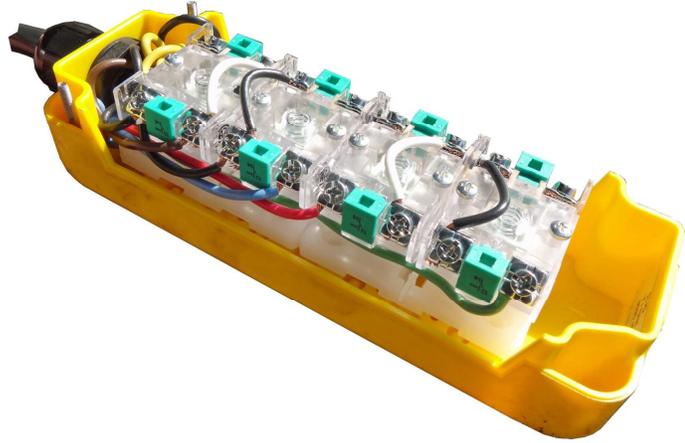
Air does not usually get trapped inside the actuator, but it does happen on occasion, particularly with initial installations. For this reason, the actuator has #4 bleed ports located atop it. Cracking the plug loose slightly will allow trapped air to escape.

Perkins recommends this be performed only as necessary. Lifter motion that is very erratic is usually a sign of trapped air. The lifter should be run several times up and down first, as this usually clears any trapped air without having to use the bleed ports.

Make sure the bleed ports are fully tightened when complete.



Perkins Pendant Wiring



The pendant comes prewired. If repairs are necessary, re-wire the pendant as shown.

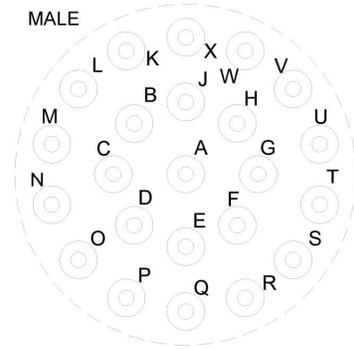


Opposite view



Perkins Pendant Wiring

QTY X2
6-BUTTON



QTY X2
4-BUTTON



	POSITION	WIRE COLOR	FUNCTION
	A	BLACK	POSITIVE +
	B	WHITE	SIGNAL
	C	RED	UP
	D	ORANGE	DOWN
BUCKET 1 6-button	E	BLUE	IN
	F	GREEN	OUT
	G	BROWN	A
	H	YELLOW	B
BUCKET 1 4-button	J	RED	UP
	K	ORANGE	DOWN
	L	BLUE	IN
	M	GREEN	OUT
BUCKET 2 6-button	N	RED	UP
	P	ORANGE	DOWN
	Q	BLUE	IN
	R	GREEN	OUT
	S	BROWN	A
	T	YELLOW	B
BUCKET 2 4-button	U	RED	UP
	V	ORANGE	DOWN
	W	BLUE	IN
	X	GREEN	OUT



Operating the Lifter

Operating Instructions

The recommended cycle is about 17 seconds to travel up and 17 seconds to travel down. This cycle time is based on the safe and smooth movement that the plastic cart can be swung about at without risking damage to the cart or injury to the operator. Therefore, operating the lifter faster than this time will void the warranty.

It is recommended that the lifter be visually inspected on a daily basis to ensure that there is nothing obviously in need of repair. Broken or missing parts/hardware should be attended to immediately to avoid risk of further damage to the lifter, damage to the cart, or injury to the operator. Operating a cart lifter that is not properly maintained is hazardous.

Step 1: Roll a loaded cart to the lifter and position the upper bar of the cart on the upper saddle of the lifter or in a position where the lifter will engage the bar once it starts its motion. (It is not necessary to lift the cart onto the upper saddle). Be sure the upper hook of the cart has engaged upon the upper saddle of the lifter.

Step 2: Look and make sure no one is in the area of the lifter or cart, step aside and clear of the lifter and cart, and then operate the push button on the pendant. The lifter will rotate and engage the cart and raise it to 45 degrees above the horizon, as long as the button remains engaged.

Safety Note: The pendant operates like a deadman switch. Releasing the button at any time will stop motion of the lifter (or the dump body). Normal operation may be resumed by operating the button again.

Step 3: Lower the cart by reversing the hand valve handle (pushing down), until the cart is safely returned to the ground and the lifter has disengaged the cart.

Step 4: Remove the empty cart and repeat the process as needed.

The dump body is operated by pressing and holding the appropriate button. Release button to stop motion at any time. Only operate the dump body when the tarp or dump door is open. Be sure there are no overhead obstructions such as ceilings, bridges, overhead branches, and especially be aware of power lines. Only operate the dump body when the truck is on a level surface, both front to back and side to side. **DO NOT operate the dump body unless the outriggers are deployed to the ground.** Once the outriggers make contact with the ground, **STOP**. (Do not lift the truck body with the outriggers.) Make sure the dump body is returned all the way down before driving the truck again. Do not leave the pendant unsecured while driving. Use the bracket provided to hold the pendant or leave it safely in the bed of the truck, don't leave it dangle.

The dump body may be dumped to the floor, a pit, or other container as desired. The food waste SAT bodies DO NOT fit a rearloader garbage truck!



SAT Maintenance

- Grease the anchor and rod ends of the body lift cylinders at the grease zerk once per month, or immediately after any power washing.
- Grease the main body pivot anchor bearings once per month, or immediately after any power washing.
- Grease all grease zerks once a month, or immediately after a power washing.
- Check the mounting hardware that secures the SAT to the vehicle is tight and that there are no missing bolts/nuts. Check once a month and after every time the unit has be re-mounted to the vehicle.
- If your SAT comes with a bin lifter, follow the maintenance instructions for the bin lifter, including:
 - Check all hardware is tight, nothing missing.
 - If the movement of the bin lifter components become loose/sloppy, it may be necessary to replace the bushings in the arms to restore firm operation. Bushings should be replaced on average of every 1-2 years, depending on the environment/operating conditions of the bin lifter. Bushings are wear items, not covered by warranty.

Safe Operating Tips

Always follow your company's safety policy during the use of this lifter, including use of proper clothing/ personal protective gear, reflective clothing, etc. Remember, you are operating the lifter on a public road/alley among moving traffic. Always be aware of your surroundings and watch for cars and pedestrians.

Do not lift anything with the lifter other than ANSI approved carts which are in good condition. Non-approved carts may not lock properly, causing them to fall from the lifter, which can cause damage or injury and will void the warranty.

Do not use the lifter for any purpose other than lifting a cart. Lifters are not meant as steps, they are not to be used to help lift bulk items, or used to crush/breakdown an item. Doing so can cause serious damage or injury and will void the warranty.

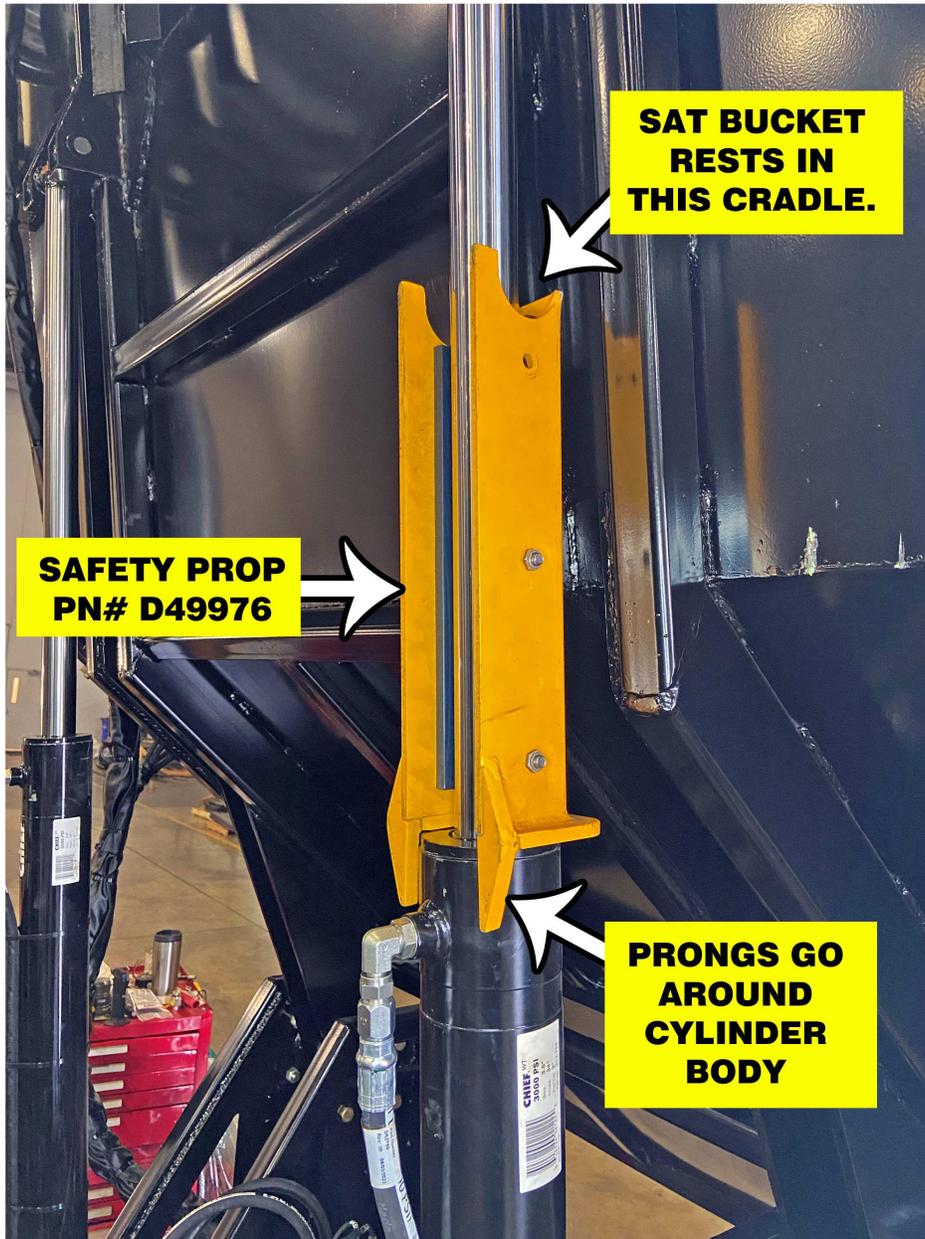
Speeding up the lifter beyond the recommended cycle time of 35 seconds and/or adjusting the relief valve to pick up weights heavier than 400 lbs can lead to damage or injury and will void the warranty. (Household trash generally will weigh not more than 200 lbs, but construction debris, concrete, roofing tiles, and water/liquids can easily exceed 500-600 lbs.)



USAGE OF SAFETY PROP #D49976

Any elevated body can fall suddenly if the hoses/lines/valves are opened. It is safest to work on the hydraulics with the equipment lowered. If the equipment must be worked on while elevated, then the elevated portion **MUST BE** secured via straps, chain, forktruck, etc to hold the elevated portion up and prevent crushing the service worker under the equipment. Do not scratch the cylinder rod while mounting the prop.

The safety prop D49976 comes with every SAT. It can be placed on the cylinder rod and used to prevent the bucket from falling down all the way. **It may not prevent all injuries.** Always use chains/straps or other equipment to prop up the bucket safely and securely while working on the hoses/lines/valves. When the work is complete, carefully remove the prop and store it inside the cab for future use.



Safe Operating Tips

Do not operate the lifter unless the area around it is clear of personnel. This means do not touch the lifter while it is in operation and do not stand or sit under/near the lifter while it is moving. Do not “help” the lifter raise an overloaded cart. Lifters have pinch points which can cause serious injury. Stay clear at all times.

It is the operator’s responsibility to move the lifter to a safe position while going down the road, such as putting the lifter all the way down into the storage position. Lifters left hanging out can be damaged when backing, which will cause serious lifter damage if a collision occurs. Damage caused by collisions is not covered by warranty.

Lifters of all kinds can be struck by utility poles, walls, other vehicles, backed into earthen hills, etc. It is the operator’s responsibility to position the cart lifter in a safe position prior to coming close to any other foreign object. If the lifter is damaged by collision, the damage will not be covered by warranty.

Do not operate the lifter up when the dump body is in use. Before operating the dump body, make sure the lifter is all the way down and the dump release door is open!

Watch for overhead obstructions, especially power lines, when operating the dump body.

Make sure the dump body is returned down before driving.

Do not operate the dump body unless the truck is sitting on level terrain. A steep slope combined with lifting the dump body may make the truck unstable. Deploy the outriggers before dumping the bucket.

DO NOT press the outriggers in the ground to the point where you lift the truck! Only lower the outriggers until the feet touch the ground then STOP. Continuing to force the outriggers into the ground can put stress on the frame and cause damage.

Unplug the SAT battery cable when not in use (applies to 12v systems only, if you have a PTO, ignore).

If your SAT is powered by a PTO, turn it OFF before driving/travelling. The PTO should only be engaged while parked/working with the SAT.

Be careful not to crash the bin lifter into the body, or vice-versa. Do not crash the lifter into the sweep lid, if equipped. Collision damage is not covered by warranty.

Carefully wrap up the pendant cables before driving and store the pendants where they will not fall and drag on the ground. Do not store the pendants where they may become submerged. Pendants are water resistant but not waterproof. Pendant damage from dropping, dragging, or water submerged is not covered by warranty.



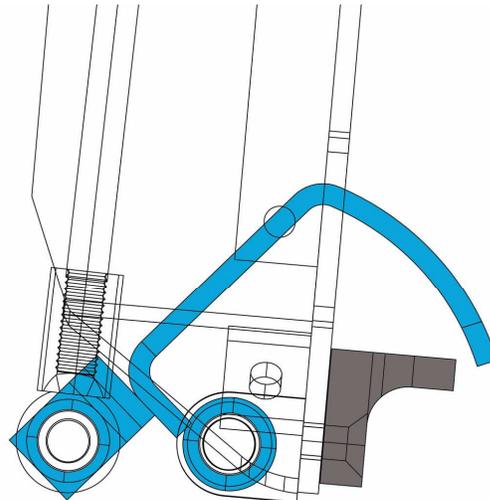
Correct Position of the Lower Latch

Shown at right is the correct position of the lower latch when the plunger assembly and threaded rod assembly are both adjusted properly and when the faceplate is 5 degrees prior to vertical.

The key is to make sure the tip of the latch is above the lower edge of the lower stop.

This position ensures that the latch is still open at the time of cart engagement to the lower bar.

The latch may be adjusted to be slightly higher than shown, but not lower, or else carts may not latch. Adjust the latch by extending or retracting the depth of the adjustable rods going in and out of the plunger rod eye, then retighten the nut securing the rod when complete.



Other Adjustments

Make sure all hardware is firmly tightened. If any hardware loosens they may be affixed with Blue Loc-tite type 242 thread locker.

Perkins uses anti-sieze lubrication on the shafts of the actuator when applying the driver bearing hubs. This typically does not wash away and helps in reducing corrosion. This makes removing the driver bearing hubs off the splines easier in the future. When rebuilding a lifter, reapply a fresh coating of anti-sieze on the splines.

There is a wide variety of carts, some of which do not meet ANSI standards. Customers may experience engagement issues with some particular brands of carts and in circumstances like these, spacers can be added behind the upper saddle or behind the lower stop to extend them out from the faceplate. This helps certain brands/sizes of carts to lock to the lifter better. If you experience any difficulties with the cart type you have, please call Perkins at 800-882-5292 to discuss the problem and Perkins will advise the best solution to meet your needs.



Lifter operation is erratic, lifter does not move smoothly

When the lifter does not move smoothly, there is typically air in the system. This is usually an issue after the initial installation or a recent repair where the hydraulic lines may have been opened. Bleed air out of the system by loosening a fitting very slightly and running the hand valve to create flow. Excess air should bleed out of the opening in the fitting. Retighten when complete done.

Another possibility is the adjustable flow control, D63575 not functioning properly. Check the arrow printed on the valve body. The valve should be installed so the arrow points away from the actuator. Adjust, clean, or replace the adjustable flow control valve as needed.

Cart lifter will not pick up the weight

The cart may be overweight. If the cart is obviously very heavy and hard to move, try removing a few items from the top to lighten the load. (for reference, the lifter is designed to lift 400 lbs of household trash. A cart full of concrete, construction debris, or water, can easily weigh 500-600 lbs and should not be lifted)

The pressure setting may be set too low. Check and adjust the pressure using a pressure gage. Note the pressure being delivered and adjust accordingly.

If all pressures are set properly and then the actuator may have internal leakage. Test for internal leakage by running the lifter all the way up and dead-head the lifter up. Note the pressure gage and see that the pressure stays constant as the hand valve is held depressed. If the pressure falls, you may have internal leakage and the actuator should be repaired/rebuilt with new seals.

Lifter operates slowly

Check the flow adjustment on the diverter valve. Use a flow meter to make sure cane motor receives at least 8 gpm.

The pump may be faulty, unable to deliver the desired flow.



Lifter breaks the lower bars of carts

First, make sure there is no damage to the lifter. Replace damaged components as needed.

Check adjustment of plunger assembly and threaded rod assembly. Check function of plunger. Adjust as needed.

On new installations, check the mounting height. It is common for brand new lifters to break lower bars if the lifter is installed too low. Remove the lifter and remount at the correct height.

Lifter breaks upper bar of carts

The upper bar of the cart is typically broken when the cart is lifted while it is excessively loaded, or while the lifter is operated too quickly. Adjust the speed of the lifter to bring the cycle time to 35 seconds. Make sure the pressure is set no higher than 2200 psi.

Make sure the lifter is not damaged. Bent or broken lifter parts can contribute to cart damage.

Lifter drops carts

A common problem is the lower latch is not adjusted correctly or the latch is damaged or unable to move freely. Check, clean and grease the parts as necessary to achieve free motion of the latch and appropriate latch timing.

Make sure the upper hook is not damaged and make sure the lower stop is in place. Some customers have been known to remove the lower stop, but this leads to dropping carts and latch damage.

Carts which are damaged or have missing lower bars will obviously not latch properly and should be repaired or replaced.

Some carts do not meet ANSI standards. Measure the problem cart and see that the bar to bar spacing is within 14 ½ - 15 ¼.

Lifter slams down to the ground or comes down too quickly

On the way down, the lifter can get ahead of the oil and free fall. Check that the adjustable flow control is mounted to the left side of the actuator, with the arrow pointed away from the actuator, and that the valve is adjusted properly. Try ¼ turn adjustments until the lifter returns to ground level smoothly.



Lifter drifts out of position when not in use

Make sure the PO Check valve is installed. If it is and the lifter still drifts, remove the PO check and remove and clean the cartridge. If the valve is damaged, replace it.

If the problem does not seem to be the PO check, the hand valve may have internal leakage. Replace the hand valve seals and/or spool as needed.

If the problem persists, then the actuator may be leaking internally. Check for internal leakage by running the lifter up and holding the hand valve while reading a pressure gage. If the pressure falls, then the actuator is leaking internally and should be rebuilt with a new seal kit.

Lifter is in good condition, latch is adjusted, but lifter still breaks carts

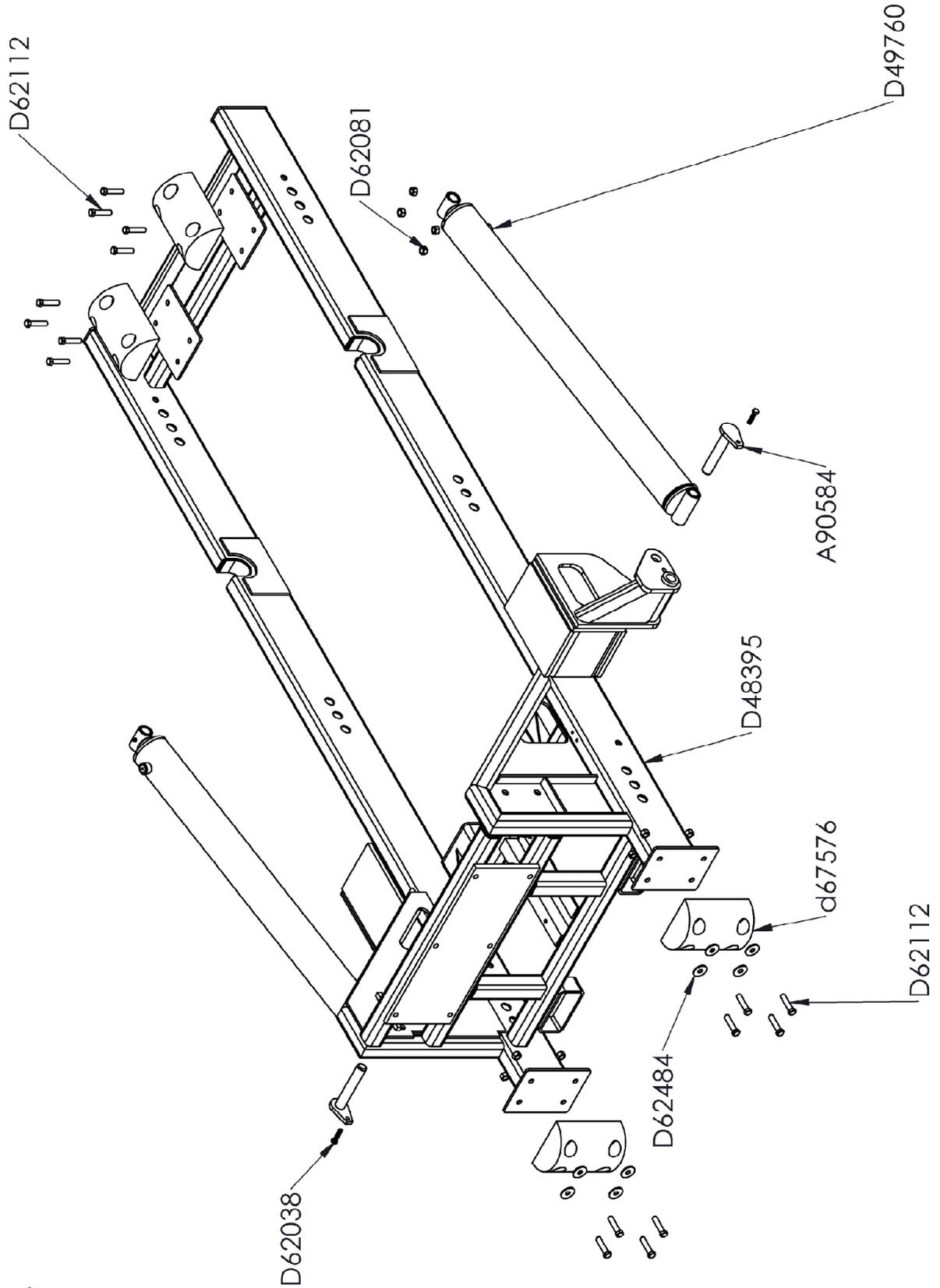
In this case, the lifter is most likely being operated too fast, or the carts are overweight. Excessively hard shaking of the carts by the operators can also lead to cart damage. Train your operators to operate the lifters properly.

Lifter or dump body do not operate at all

Check your electrical connections. Truck must be running, and auxiliary switch turned on. Then verify PTO pump is outputting desired pressure and GPM.



Exploded View – S8-H241



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter
www.perkinsmfg.com

800-882-5292

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S8-H241-AC300 PARTS LIST

Item	Description	Qty
S8-H241	8 YARD HD SAT, LOW PROFILE FULL BODY, CHASSIS MNT, HEAVY DUTY FOR FOOD WASTE	1
AC3236	UPPER SIDE LADDER WELDMENT (REV B)	1
AC300KIT-7	2" DIA CANE ASSY W/US HOOKS & CARRIAGE TO CLEAR 7FT	1
D38039	FLANGE HEAD 3/4-10 X 1 1/2 (REV A)	24
D72132	LOCKNUT 3/4-10, GR 8, ZINC PLATED	24
D62030	LOCKNUT 5/16-18 GRADE 8 ZINC PLATED	8
AC3240	BOTTOM RUNG- REMOVABLE STEP LADDER WELD	1

S8-H241 PARTS LIST

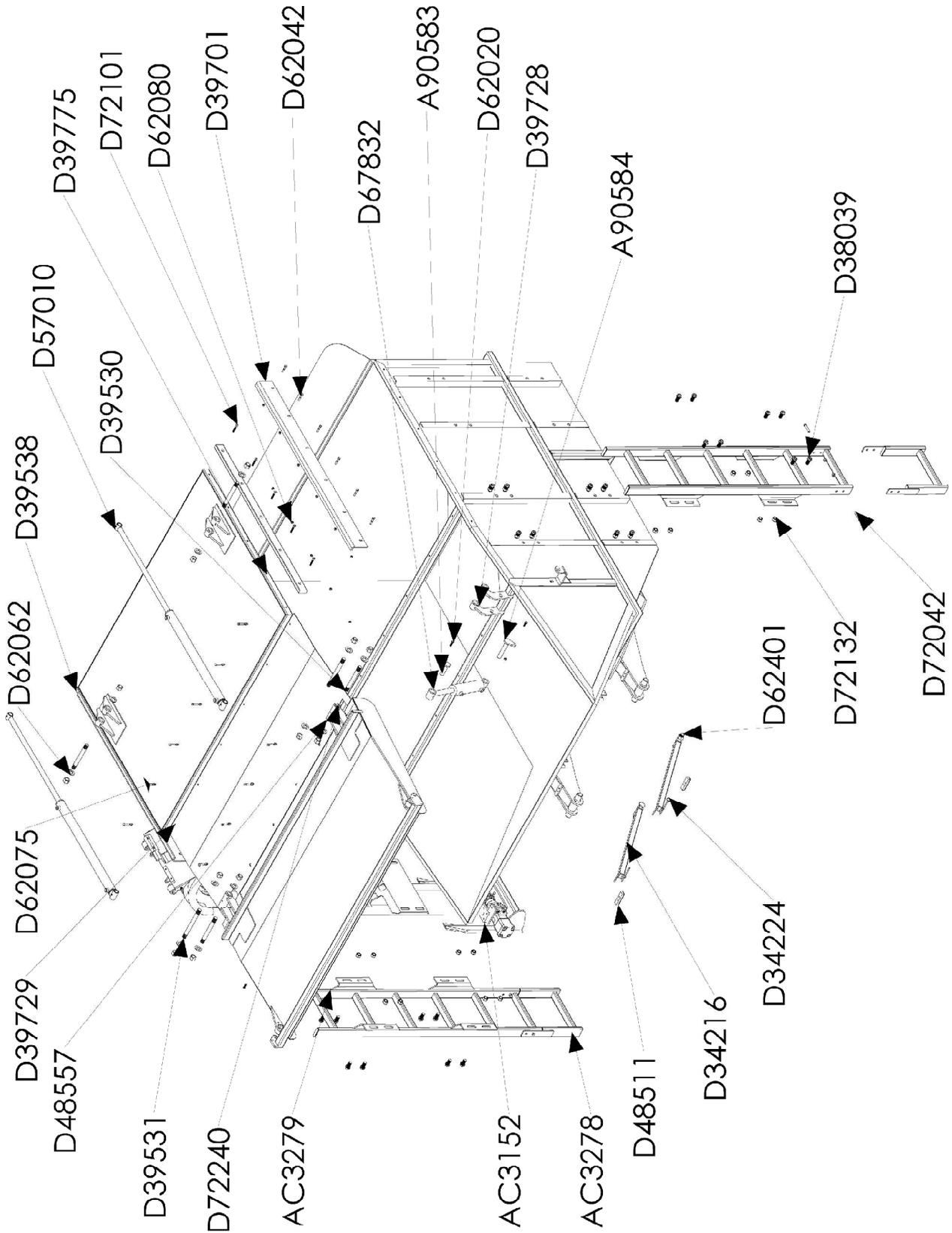
Item	Description	Qty
A90584	CYLINDER PIN, LARGE Ø1 X 5 5/8 (REV C)	2
D57010	HYDRAULIC CYLINDER 2" BORE X 30" STROKE	4
D39530	SWEEP PIVOT/SLED DRIVE PIN Ø1 X 8 31/32	4
D39531	SWEEP/DRAK SLED ANCHOR PIN Ø1 X 10 3/16	2
D39538	DRAK SLED BLOCK	2
D39729	COVER PLATE (REV A)	1
D39770	TOP SWIVEL DOOR WELDMENT (REV B)	1
D39775	SLIDE TOP DOOR WELD (REV B)	1
D48511	RUBBER BUMPER w/ BACKING STRIP (REV B)	2
D62004	USS FLATWASHER 3/8 X 1 OD ZINC PLATED	10
D62042	BOLT HHCS 3/8-16 X 2 GRADE 8 ZINC PLATED	12
D62062	SAE FLATWASHER 1 x 2 OD ZINC PLATED	12
D62071	LOCKNUT 1-8 - GRADE 8, ZINC-PLATED, 7/8" HIGH	14
D62075	BOLT HHCS 3/8-16 X 2 1/2 GR8, ZINC PLATED	10
D62079	BOLT HHCS 3/8-16 X 1 GR8 ZINC PLATED	2
D62080	LOCKNUT 3/8-16 GR 8 ZINC PLATED	33
D62081	LOCKNUT 1/2-13 GRADE 8 ZINC PLATED	16
D62106	SPLIT LOCKWASHER 3/8" ZINC PLATED	2
D62112	BOLT HHCS 1/2-13 x 2 1/4 GR8, ZINC PLATED	16
D62484	USS FLATWASHER 1/2 x 1.37 OD ZINC PLATED	16
D67576	RUBBER TRUCK BUMPER HALF-BARREL, 4-HOLE	4
D72071	BOLT HHCS 1-8 x 2 GRADE 8, ZINC PLATED	8



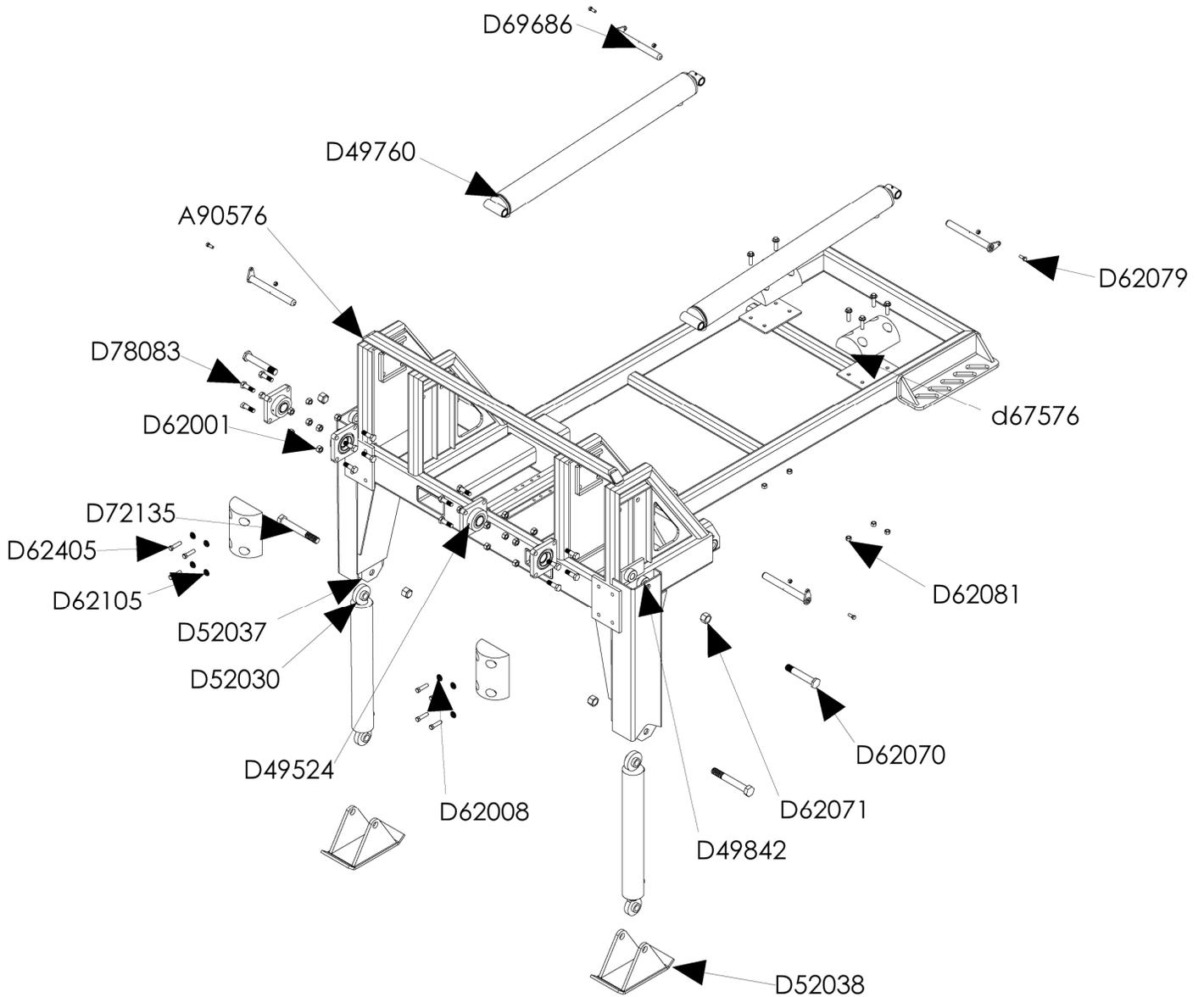
D72101	BOLT FHCS 3/8-16 X 2 1/2 GR8, ZINC PLATED	10
D72108	SELF LUB. RBC FIBERGLIDE BEARING 1" ID X 1/2" LG	8
D72133	BUSHING 1 x 1 SELF-LUB RBC FIBERGLIDE 515578	4
D72135	BOLT HHCS 1-8 X 7.5" GR 8, ZINC PLATED	2
D72208	LOCKNUT 1-8-THIN X 1/2" HIGH, ZINC PLATED	8
D72256	BOLT SHCS 1/4-20 X 3/4 GR8, ZINC PLATED	4
D69438	PIVOT PIN WELD, ARM Ø1 X 8 5/16 515587 (REV E)	2
D62038	BOLT HHCS 3/8-16 X 1 1/2 GR8, ZINC PLATED	2
D72465	NORD-LOCK LOCKWASHER 3/8	2
D49760	HYDRAULIC CYLINDER 36 STROKE X 3-1/2 BORE X 2 SHAFT	2
D48395	LOW PROFILE BUCKET FRAME WELD (REV A)	1
D49032	8 YARD LOW PROFILE BUCKET WELD (REV E)	1
D50383	RUBBER EXTENSION 16" CONVEYOR BELT W/ HARDWARE, 8 YD SAT	1
D49524	1 1/2 BEARING WELD, 4X4 HOLES	2
D39846	BOTTOM TEARDROP PIN WELDMENT Ø1 X 4 7/16	2
D39847	TOP TEARDROP PIN WELDMENT Ø1 X 4 15/16	2
D62028	BOLT HHCS 5/16-18 X 1 1/4 GR8, ZINC PLATED	4
D62030	LOCKNUT 5/16-18 GRADE 8 ZINC PLATED	4
D50019	SIDE BUSHING, PLASTIC SPACER DISC (REV A)	2
D50460	PENDANT BRACKET KIT, CHASSIS MOUNT	1
D50477-34	HD CHASSIS MOUNTING KIT, EZ MOUNT	1
XF540039	1-1/4 NPT GALVANIZED PLUG	1
D39797	SLIDE GUIDE RAIL LEFT & RIGHT SIDES (REV B)	2
D49976	CYLINDER SAFETY PROP BRACE ASSEMBLY	1
D72090	SAT UNIT WARNING/LOGO LABEL PACK	1



Exploded View – S10-B241-AC300



Exploded View – S10-B241-AC300



S10-B241-AC300 PARTS LIST

Item	Description	Qty
S10-B241	10 YARD SAT, 10,000 LBS CAPACITY, FULL BODY, CHASSIS MNT, UPPER FRONT SLIDE LOADING DOOR & UPPER BACK SWIVEL UNLOADING DOOR & ONE LADDER	1
AC300KIT-10	2" DIA CANE ASSY W/ US HOOKS, CLEARS 10 FEET	1
D62030	LOCKNUT 5/16-18 GRADE 8 ZINC PLATED	8
D63218	TEE #6MO- #6JIC- #6JIC	2
D63011	ELBOW 90°, #6MT - #6MO	1
D63105	ELBOW 90°, #6MT - #8MO	15
D63589	TEE #6MT - #6MT - #6MT	6
D63597	ADAPTER #6MO - #6FT	2
D63074	ADAPTER #6MT - #6MO	10
D63431	REDUCER #6FT-#8MT	7
D63535	#8 HYDRAULIC HOSE ASSY X 175" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-105	#6 HYDRAULIC HOSE ASSEMBLY X 105" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS. W/ HOSE WRAP	2
A90877-200	#6 HYDRAULIC HOSE ASSY X 200" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	6
A90877-48	#6 HYDRAULIC HOSE ASSY X 48" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	4
A90877-64	#6 HYDRAULIC HOSE ASSY X 64" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 W/ #6 FEMALE SWIVEL JIC STRAIGHT ENDS W/ HOSE WRAP	4
D49976	CYLINDER SAFETY PROP BRACE ASSEMBLY	2
D47075	MOUNTING BLOCK (REV A)	5
D63780	ADAPTER #12MO - #8MT	2
D63061	ADAPTER #6MT - #8MO	17
D63430	ADAPTER #8MT - #6MO	2
D63106	ELBOW 90°, #6MT - #6FT	1
D63532	ELBOW 90°, #8FT - #8MT	4
D63209	TEE, #8MT - #8MT - #8FT SWIVEL NUT JIC SWIVEL RUN TEE	2
D63419	TEE #6MT - #6FT - #6MT	2
D63031	TEE #6MT - #6MO - #6MT	2
D72644	ADAPTER #8MO - #8MT 2.7" LONG BODY	2
D63090	ADAPTER #8MT- #8MO	3
D63138	TEE #8MT-#8FT-#8MT	2
D63551	TEE #8MO - #8MT - #8MT	1



D63635	ELBOW 90°, #6MO - #8MT	2
D63639	ADAPTER #6MO - #8FT	3
D63147	ELBOW 45°, #6MT - #6MO	2
D63581	ELBOW 45°, #6MT - #6FT	1
D63523	TEE #6MT - #6MT - #6FT	2
D38375	#8 HYDRAULIC HOSE ASSY X 66" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	1
D72708-70	#8 HYDRAULIC HOSE ASSY X 70" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	1
D38314	#8 HYDRAULIC HOSE ASSY X 110" LG. #8 FEMALE SWIVEL JIC ENDS, BOTH SIDES, FOR USE ON ACTUATOR OF ECO-MAX, RUNNING THRU GUIDE TRACK	1
D72708-105	#8 HYDRAULIC HOSE ASSY X 105" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	1
D72708-195	#8 HYDRAULIC HOSE ASSY X 195" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	1
D72708-203	#8 HYDRAULIC HOSE ASSY X 203" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	1
D72708-185	#8 HYDRAULIC HOSE ASSY X 185" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	2
D72708-24	#8 HYDRAULIC HOSE ASSY X 24" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-8 STANDARD #8 FEMALE SWIVEL JIC STRAIGHT ENDS	3
D63495	#6 HYDRAULIC HOSE ASSY X 67" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	2
A90877-112	#6 HYDRAULIC HOSE ASSY X 112" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-106	#6 HYDRAULIC HOSE ASSEMBLY X 106" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-108	#6 HYDRAULIC HOSE ASSEMBLY X 108" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-110	#6 HYDRAULIC HOSE ASSY X 110" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 W/ #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-40	#6 HYDRAULIC HOSE ASSY X 40" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-62	#6 HYDRAULIC HOSE ASSY X 62" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1
A90877-42	#6 HYDRAULIC HOSE ASSY X 42" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	1



D69104	#6 HYDRAULIC HOSE ASSEMBLY X 60" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS (REV A)	1
A90877-70	#6 HYDRAULIC HOSE ASSY X 70" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS W/ HOSE WRAP	2
A90877-150	#6 HYDRAULIC HOSE ASSY X 150" LONG MATCHMATE GLOBAL/EATON/AEROEQUIP #GH681-6 STANDARD #6 FEMALE SWIVEL JIC STRAIGHT ENDS	2
D72090	SAT UNIT WARNING/LOGO LABEL PACK	1

S10-B241 PARTS LIST

Item	Description	Qty
A90583	CYLINDER PIN, SMALL Ø1 X 3/12 (REV D)	2
A90584	CYLINDER PIN, LARGE Ø1 X 5 5/8 (REV C)	2
AC3236	UPPER SIDE LADDER WELDMENT (REV B)	1
AC3240	BOTTOM RUNG- REMOVABLE STEP LADDER WELD	1
D38039	FLANGE HEAD 3/4-10 X 1 1/2 (REV A)	24
D39530	SWEEP PIVOT/SLED DRIVE PIN Ø1 X 8 31/32	4
D39531	SWEEP/DRAW SLED ANCHOR PIN Ø1 X 10 3/16	2
D39538	DRAW SLED BLOCK	2
D39729	COVER PLATE (REV A)	1
D39770	TOP SWIVEL DOOR WELDMENT (REV B)	1
D39775	SLIDE TOP DOOR WELD (REV B)	1
D48511	RUBBER BUMPER w/ BACKING STRIP (REV B)	2
D49524	1 1/2 BEARING WELD, 4X4 HOLES	4
D49760	HYDRAULIC CYLINDER 36 STROKE X 3-1/2 BORE X 2 SHAFT	2
D49805	MAIN BASE FRAME WELD FOR 10 YARDS SATELLITE (REV C)	1
D49810	BUCKET WELD FOR 10 YARDS SATELLITE (REV E)	1
D49842	SPACER BOSS	8
D52030	HYDRAULIC CYLINDER 2.5" BORE X 20 STROKE	2
D52035	STABILIZER FOOT BASE WELDMENT	2
D52037	SLIDE TUBE	2
D57010	HYDRAULIC CYLINDER 2" BORE X 30" STROKE	4
D62001	LOCKNUT 5/8-11 DISTORTED THREAD, GRADE 8, ZINC-PLATED	16
D62008	SAE FLATWASHER 1/2 X 1.06 OD ZINC PLATED	16
D62020	BOLT HHCS 3/8-16 X 1 1/4 GR8 ZINC PLATED	4
D62042	BOLT HHCS 3/8-16 X 2 GRADE 8 ZINC PLATED	12
D62062	SAE FLATWASHER 1 x 2 OD ZINC PLATED	12
D62071	LOCKNUT 1-8 - GRADE 8, ZINC-PLATED, 7/8" HIGH	18
D62075	BOLT HHCS 3/8-16 X 2 1/2 GR8, ZINC PLATED	10



D62079	BOLT HHCS 3/8-16 X 1 GR8 ZINC PLATED	4
D62080	LOCKNUT 3/8-16 GR 8 ZINC PLATED	40
D62081	LOCKNUT 1/2-13 GRADE 8 ZINC PLATED	12
D62105	SPLIT LOCKWASHER 1/2" ZINC PLATED	8
D62401	BOLT HHCS 1-8 x 4 1/2" GR8, ZINC PLATED	2
D62405	BOLT HHCS 1/2-13 X 2, GR8, ZINC PLATED	16
D67576	RUBBER TRUCK BUMPER HALF-BARREL, 4-HOLE	4
D69686	ARM PIVOT PIN, Ø1" x 9 7/16	4
D72042	BOLT HHCS 1/2-13 X 2 1/2, GR8, ZINC PLATED	4
D72101	BOLT FHCS 3/8-16 X 2 1/2 GR8, ZINC PLATED	10
D72132	LOCKNUT 3/4-10, GR 8, ZINC PLATED	22
D72240	OILITE BEARING AA1110-01 1" ID X 1 1/8" OD X 1" LG (REV A)	4
D72255	BOLT SHCS 1/4-20 X 1/2, GR8, ZINC PLATED	4
D78083	BOLT HHCS 5/8-11 X 2 GR8, ZINC PLATED	16
D72135	BOLT HHCS 1-8 X 7.5" GR 8, ZINC PLATED	2
D72090	SAT UNIT WARNING/LOGO LABEL PACK	1
D72272	BOLT HHCS 1-8 X 6 GR 8 ZINC PLATED	2
D50019	SIDE BUSHING, PLASTIC SPACER DISC (REV A)	2
D50460	PENDANT BRACKET KIT, CHASSIS MOUNT	1
D50477-34	HD CHASSIS MOUNTING KIT, EZ MOUNT	1
XF540039	1-1/4 NPT GALVANIZED PLUG	1
D39797	SLIDE GUIDE RAIL LEFT & RIGHT SIDES (REV B)	2



Making a Warranty Claim

For complete warranty coverage details, please see the warranty page at the end of this manual.

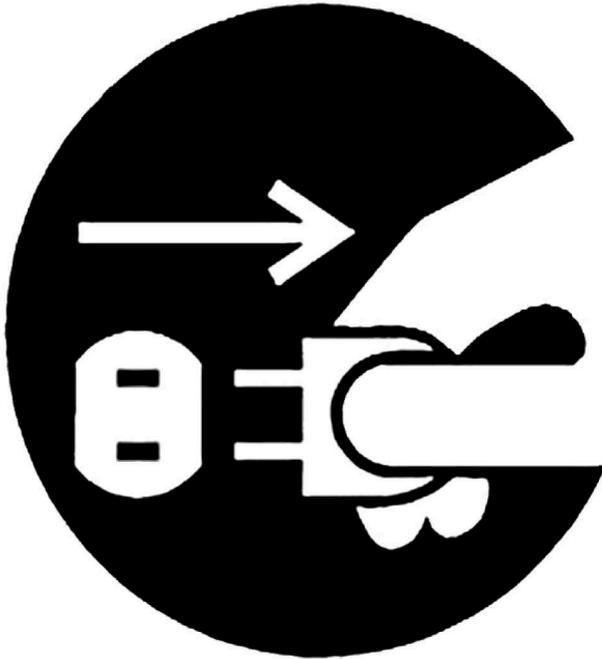
If you suspect that failure of the lifter to operate is due to a defect, please take a moment to locate the serial number of your lifter.

Warranty cannot be honored on lifters or individual pieces unless a serial number is provided. Since the tag is frequently lost, damaged, or painted over, it is a good idea to note the serial number in this manual at the time of installation.

Once you have the number, please call Perkins Manufacturing at 800-882-5292 for additional instructions.



WARNING



Unplug the unit when not in use.

Desconecte la unidad cuando no este en uso.

Do not paint over this label. Replace if damage

D72724

Make sure to unplug pump assembly at D48584 to prevent battery drain when the vehicle is off.



© Perkins Mfg Co. 800-882-5292

Label # D72545

DO NOT CLIMB ON
THE SAT OR THE LIFTER.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter
www.perkinsmfg.com

800-882-5292

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<p>⚠ ATENCIÓN</p>		<p>⚠ CAUTION</p>
<p>Punta Peligrosa. Mantenga las manos alejadas.</p>		<p>Pinch point hazard. Keep hands clear.</p>

© Perkins Manufacturing Company 800-882-5292

Label # D72496

<p>⚠ PELIGRO</p>		<p>⚠ DANGER</p>
<p>Manténgase alejado del levantador. Un golpe causaría lesiones o la muerte.</p>		<p>Stand clear of lift. Contact will cause injury or death.</p>

Reorder No. D72497

<p>⚠ ATENCIÓN</p>		<p>⚠ CAUTION</p>
<p>Peligro puede ser aplastado. No se coloque debajo del contenedor cuando esté elevado.</p>		<p>Crush hazard. Do not stand below container when it is elevated.</p>

Reorder No. D72523

<p>⚠ ATENCIÓN</p>		<p>⚠ CAUTION</p>
<p>¡Peligro de colisión! No permita el contacto entré la cubeta de carga y el alza contenedor. ¡Se producirán daños!</p>		<p>Collision hazard! Do not allow bucket and cart lifter to collide. Damage will occur!</p>

© Perkins Manufacturing Company 800-882-5292

Label # D73124



Protective Safety Labeling

Perkins provides each finished cart lifter with ANSI-specified caution labels. They are clearly placed directly on the machine for easy viewing by the operators.

Should the cart lifter ever be re-painted, or if the labels are damaged beyond recognition, it is advised to replace the labels immediately to help keep your crew safe.

OHSA always requires these labels to be in clear sight on the machine.

Responsibility to maintain proper caution and warning labels is the responsibility of the end-user.



You should make sure that all pressure is bled/released from the hydraulic or pneumatic system; for some systems it may be possible to work on a part of the system by using line-breaking or blanking procedures. Never loosen or tighten a hydraulic connection when the system is under pressure. The connection could fail catastrophically and cause an injection injury and/or damage to property. Inspect hoses regularly for wear then replace hoses before leaks can develop. Hydraulics systems should look clean and dry. You can typically see leaks where the machine is collecting dirt and debris that is sticking to the oil. Look for wet-looking areas that are collecting dirt. Check for abraded/scuffed hoses, loose or damaged fittings, or worn out seals, or other physical damage that may have led to creating the leak.



NOTE
RUNNING THIS LIFTER TOO FAST, OVERLOADING THE LIFTER, COLLISIONS WITH THE LIFTER, MODIFYING THE LIFTER, OR NEGLECTING TO MAINTAIN THE LIFTER VOIDS THE WARRANTY COMPATIBLE WITH ANSI Z245, TYPE B, C, D, & G CONTAINERS.
NOTA
OPERAR EL ALZACONTENEDOR LEVANTADOR MUY RAPIDO, SOBRECARGAR, GOLPEAR MODIFICAR O NEGLIGENCIA A MANTENIMIENTO Y SERVICIO ANULARA LA GARANTIA.
COMPATIBLE CON ANSI Z245, TYPE B, C, D, & G CONTENEDORES.
D72279

Dress appropriately for work with pants and sleeves that are not too long or too loose. Shirts should be fitted or tucked in. Avoid wearing loose and dangling jewelry. Tie back long hair and tuck braids and ponytails behind you or into your clothing. Wear the appropriate, well-fitting gloves for your job.

Look for possible pinch points before you start a task. Take the time to plan out your actions and decide on the necessary steps to work safely. Read and follow warning signs posted on equipment.

Machinery can pose a hazard with moving parts, conveyors, rollers, and rotating shafts. NEVER reach into a moving machine. Turn equipment off and use lockout/tagout procedures before adjusting, clearing a jam, repairing, or servicing a machine.



⚠ PELIGRO		⚠ DANGER
<p>Peligro puede ser electrocutado.</p> <p>Cerciorese de la ausencia de lineas electricas antes de vaciar.</p>		<p>Overhead electrocution hazard.</p> <p>Check for overhead power lines before dumping.</p>

©Perkins Manufacturing Company

Label # D72494

Use caution when using the Satellite unit for overhead or low hanging power lines. When driving be mindful of overhead or low hanging power lines for danger of electrocution. When dumping look out for powerlines as to not damage power lines. Injury or damage may occur truck and/or operator if hazards are closely monitored.

NOTICE

Maintenance Requirements



Read and understand manual prior to operating this equipment.

Follow maintenance guidelines per the manual.

Inspect machine daily prior to use and report any problems to service immediately.

Failure to operate and maintain the unit within guidelines will void the warranty.



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800-882-5292 www.perkinsmfg.com

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Reorder No. D72499



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	NOTICE
	<p>Grease all zerks on a weekly basis to maintain warranty.</p> <p>Re-grease after power washing.</p>
<p>Visit www.perkinsmfg.com for important updates.</p>	
<p>Please read the manual prior to operating or adjusting this machine for important information.</p>	
Perkins Manufacturing, Company 708 482 9500	Label # D72163

Maintaining the lifter is vital to ensure proper operation of the equipment and for warranty to be valid. Inspection of the lifter is also important to make sure there are no loose parts and that the lifter is properly greased. Not inspecting or maintaining the machine regularly can pose a hazard of parts coming loose, parts not moving properly or wear items to become too worn to not move properly. If any issues occur, please contact service immediately.

⚠ CAUTION	
	<p>Pinch point hazard. Keep hands clear. Worker can be injured by moving parts.</p>
	<p>Skin injection hazard. Protect your hands & body from high pressure fluids. Relieve pressure before servicing. Do not check for leaks with your bare hands.</p>
<p>Compatible with ANSI Z245.60 type containers only.</p>	
<p>Cycle time must be 3-4 seconds up / 3-4 seconds down. Faster operation can cause damage and injury.</p>	
Perkins Manufacturing, Company 708 482 9500	Label # D72589

⚠ ATENCIÓN	
	<p>Punta Peligrosa. Mantenga las manos alejadas. El trabajador puede lesionarse moviendo partes.</p>
	<p>Riesgo de inyección cutánea. Proteja las manos y el cuerpo de líquidos en alta presión. Purgue la presión antes de realizar cualquier servicio. No busque fugas usando sus manos.</p>
<p>Compatible con ANSI Z245.60 solo contenedores de tipo.</p>	
<p>El tiempo del ciclo debe ser 3-4 segundos arriba / 3-4 segundos abajo. Una operación más rápida puede causar daños y lesiones.</p>	
Perkins Manufacturing, Company 708 482 9500	Label # D72590



Safety Labeling and Training Requirements

Perkins provides safety labeling on all outgoing product per ANSI regulations, seen below.

19-01 Warning, Label and Safety Instructions.

Include standard safety instructions as one of the first items in a manual. This helps emphasize safe use of the product and can help the user understand the hazards, the consequences of the hazards and how to avoid the hazards. Priority placement also increases the likelihood that the information will be read. Any symbols or pictograms physically on the product should be included in the appropriate section of the manual to reinforce the association between the nature and severity of the hazard and the correct behavior.

The American National Standards Institute (ANSI) standard Z535.6, *Product Safety Information in Product Manuals, Instructions, and Other Collateral Materials*, should also be applied.

To help ensure the product user sees and understands warnings and safety instructions, you should make them conspicuous. It is critical that you make proper use of the signal words "*danger*", "*warning*", "*caution*" and "*notice*" and their corresponding signal colors *red, orange, yellow, and blue*.

Choosing the appropriate signal words and colors are based on an estimate of the likelihood of exposure to the hazardous situation and what could happen as a result of exposure to the hazard. The American National Standards Institute (ANSI) standard Z535.4, *Product Safety Signs and Labels*, defines the hazard signal words as follows:

DANGER: Indicates an imminently hazardous situation which, if not avoided, "will" result in death or serious injury. This signal word is to be limited to the most extreme situations.

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

CAUTION: 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.

NOTICE: Indicates information considered important, but not hazard related (e.g., messages relating to property damage).

It is the responsibility of owner of this product to maintain the safety labels, keep them clear & visible to all users, and replace the safety labels when they become worn or missing.

All users must read and understand this manual and the safety precautions before using this product.



1-YEAR LIMITED WARRANTY

SAT structural components carry a 1-year limited warranty.

PTO pumps carry a 1-year limited warranty.

6 MONTH LIMITED WARRANTY

12v hydraulic power packs carry a 6-month limited warranty.

90-DAY LIMITED WARRANTY

Backup cameras, monitors, strobe/work lights, sensors, and other electrical accessories will carry a 90-day limited warranty.

NO WARRANTY

Wear items (items made of plastic or rubber like bumpers and rollers) are excluded from the warranty.



Manufacturing Company

Perkins Warranty Procedure

This procedure for claiming warranty must be followed or warranty will not be approved, credit will not be issued, and replacement parts will not be shipped. This document is not a replacement for the warranty policy. Please refer to the last page of your manual, which describes the warranty policy in detail.

If you believe your Perkins lifter has suffered from a failure that could be covered by warranty, immediately lock out any equipment that has failed per OSHA guidelines.

Take photographs of the lifter, including overall views of the unit and some close-ups, as necessary to properly record the failure in a way our engineering staff can examine. While taking photos of the lifter, record the serial number of the lifter.

Call Perkins at (800) 882-5292 and ask to speak to the service department. Requests for warranty can also be emailed to svaldez@perkinsmfg.com. Attach any photos to the email, as necessary. The service department will use the photos to determine if the return of parts for inspection is necessary or not. If the return of parts is required, the service department will issue you an RGA number.

Your replacement parts will be shipped at the time of your warranty request, but they will require a purchase order number/payment in order to ship. (Credit will be issued later, after warranty status is determined.) Your replacement parts will feature RGA numbers on the documentation referencing your warranty request. Replacements are sent UPS ground. For faster shipping, the customer will be charged.

Clearly mark the box of any returns with the provided RGA number in a prominent place. This helps our shippers identify your items. When your returned parts arrive, our service and engineering teams will inspect your shipment and determine if the failure is a defect covered by the warranty or not. If the item(s) are covered by warranty, credit will be issued. If the item(s) were not covered by warranty, a report will be generated that fully describes the reasoning behind the decision.

Common Warranty Mistakes:

Please do not ship lifters/parts to Perkins without first obtaining an RGA number. Parts received without prior authorization or without RGA markings will be discarded and credit will not be issued.

Orders that are placed without discussing warranty status will be treated as a typical order and will be billed accordingly. Credit will not be issued for warranty requests after the order is placed.

No warranty is allowed on lifters/parts not having a serial number.

Manufacturing Company

Perkins Return Policy:

If, within 30 days of receipt of the item(s), a customer would like to return an unused item(s), the customer may contact Perkins for a return authorization (RGA#). The item must be shipped within 2 weeks of the return authorization. The customer will pay the return freight and a 15% restocking fee on the return(s). The item must be in new / unused condition, and any damage or clean up required to restore the product to resalable condition will be charged to the customer.

Packages received without an RGA# on the packaging identifying who the product is from may be discarded or refused and credit may not be issued. Always make sure the RGA# is displayed on the box and on any included paperwork.

If Perkins shipped the wrong item(s), the incorrect item(s) may be returned within 30 days of receipt of the item by contacting Perkins for a return authorization (RGA#). The item(s) must be shipped within 2 weeks of the return authorization. Perkins will pay the return freight and waive the restocking fee.

If the return results in a net debit, the customer will be invoiced. If the return results in a net credit, the credit can be used against the replacement item(s) or a future purchase.

Special Notes:

Perkins does offer customized solutions and due to the customization of these items, Perkins cannot accept returns or refunds on anything custom ordered. This includes industrial units, cane lifters, and other items which have been specially fabricated to the customer's specifications. Unfortunately returns on these products cannot be accepted.

Perkins Manufacturing One-Year Limited Warranty

PERKINS MANUFACTURING COMPANY warrants its products to be free from defects in material and workmanship under normal use for a period of **one (1) year** from the date of delivery to the first purchaser.

Any claim under this warranty must be handled in accordance with PERKINS' warranty procedure.

This warranty is expressly limited to the repair or replacement in PERKINS' discretion of any component or part of any PERKINS product unit manufactured by PERKINS which is brought to PERKINS attention promptly after discovery and is proven to PERKINS' satisfaction to have been defective in material or workmanship.

This warranty shall not obligate PERKINS to bear the cost of labor or transportation charges in connection with the repair or replacement of defective parts, and it shall not apply to a product upon which repairs, or alterations have been made unless authorized in writing by PERKINS.

Any damage, wear & tear or improper use, substitution of parts not approved by PERKINS, modifications other than those done by PERKINS or as authorized in writing by PERKINS, or any alteration or repair by others in such a manner which, in PERKINS' judgment, materially and adversely affects the product shall void this warranty. Operation at an actuator cycle time of less than six seconds shall void this warranty. Wear items used for anti-friction purposes are not covered by this warranty.

Periodic maintenance is required in order to maintain warranty but is not covered by warranty. Please refer to the maintenance section of the service manual for instructions.

PERKINS makes no warranty of products manufactured by others and supplied by PERKINS, the same being subject to warranties, if any, of their respective manufacturers.

PERKINS shall not assume any liability for any incidental, consequential, direct, or indirect damage, loss or delay of any kind, including, but not limited to, the loss of profits, product or downtime.

PERKINS warrants any service parts it may sell for a period of ninety (90) day from the date of delivery for replacement only. The item being replaced must be returned to PERKINS for evaluation upon its request. The cost of labor to replace such part shall be the responsibility of the owner. PERKINS does not warrant any used parts.

PERKINS, whose policy is one of continuous improvement, reserves the right to improve its products through changes in design or materials as it may deem desirable without obligation to incorporate such changes in products of prior manufacture.

THE ABOVE WARRANTY SUPERCEDES AND IS IN LIEU OF ALL OTHER EXPRESS OR IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITING, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO EMPLOYEE OR ANY OTHER REPRESENTATIVE OF PERKINS IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR TO GRANT ANY OTHER WARRANTY. THESE TERMS WILL BE CONSTRUED ACCORDING TO THE LAWS OF THE STATE OF ILLINOIS WITHOUT REGARD TO ITS CONFLICTS OF LAWS PROVISIONS. ALL ACTIONS OR PROCEEDINGS IN ANY WAY, MANNER OR RESPECT ARISING OUT OF OR RELATED TO THE GOODS WILL BE LITIGATED ONLY IN STATE OR FEDERAL COURTS, AS APPROPRIATE, LOCATED IN WILL COUNTY, ILLINOIS. BUYER CONSENTS AND SUBMITS TO JURISDICTION IN THE STATE OF ILLINOIS AND WAIVES ANY RIGHT TO TRANSFER THE VENUE OF ANY SUCH ACTION OR PROCEEDING.