



Sweep Lids Installation & Operational Manual for 6-yard and 8-yard Satellites.

Full Size & 50/50

**6 Yard Satellite with Full Size Body and
Sweep Lid.**



**8 Yard Satellite with 50/50 Body
and Sweep Lid.**



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

800-882-5292

Revise: 12/19/23

Page 1 of 44

Sweep Lid Only, Specifications

Cart Compatibility	N/A
Typical Mounting Application	To mount on 6 yard or 8 yard Perkins Satellite
Flow Rate Requirement	1.5 gpm (12 VDC pump), 3 gpm (24 pump), 8 gpm (PTO & Pump).
Cycle Time of Sweep Lid	
Cycle Time of Dump Body	N/A
Recommended Pressure Setting	1,200 psi at the pressure relief valve
Mounting Height	Top of Satellite body.
Approximate Unit Weight (not counting packaging)	1,000 lbs.
Warranty	1 year limited warranty. See warranty page for details***

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

*** See Warranty page enclosed in this manual for full details of coverage



Bucket Capacities

SAT BODY SIZE	TYPE	BODY	COVER	APPROX. WEIGHT EMPTY	TOTAL CARRY CAPACITY	VEHICLE PAYLOAD REQUIRED	CAB TO END OF FRAME* 12V / PTO
3	STANDARD	FULL	TARP	1700	3000	4700	109" / 133"
6	STANDARD	FULL	TARP	2000	6000	8000	109" / 133"
6	STANDARD	FULL	SWEEP	2800	5000	7800	109" / 133"
6	STANDARD	SPLIT	TARP	2000	6000	8000	109" / 133"
6	STANDARD	SPLIT	SWEEP	2800	5000	7800	109" / 133"
8	STANDARD	FULL	TARP	2500	6000	8500	109" / 133"
8	STANDARD	FULL	SWEEP	3350	5000	8350	109" / 133"
8	STANDARD	SPLIT	TARP	2500	6000	8500	109" / 133"
8	STANDARD	SPLIT	SWEEP	3350	5000	8350	109" / 133"
8	FOOD WASTE	FULL	LIDS	4250	8000	12250	105" / 129"
10	FOOD WASTE	FULL	LIDS	4750	10000	14750	105" / 129"

These dimensions are minimum requirements for a base install. If you want options that take up rail space, like a platform or power washer or storage box, then add the length of your additional equipment to the minimums shown at left.

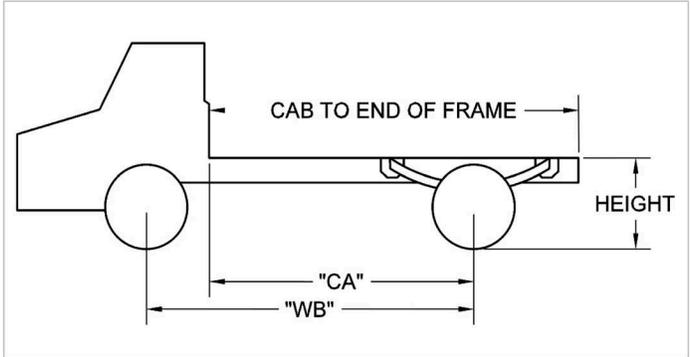
Please allow yourself some extra space! It's better to have extra space than not enough. If you aren't sure, ask!

Weights shown above are approximate, based on core models without any options. All Bed Mount units must be 8' bed.

Adding options will add weight. (Cart Lifters, chutes, lights, pressure washer, liftgate, water tank, storage boxes, platforms, bumpers, fenders, etc must be totalled up and added to the "vehicle payload required column.

*PTO powered units need 24" more rail length for the hydraulic tank to mount.

It is the customer's responsibility select the right size truck.
Perkins is not liable for misjudgement.



Note: Adding options reduces the lifting capacity, as the machine then has to lift the additional weight of the option as well as the usual load.

Example: If you add a 45 lb chute to a bin tipper, then the bin tipper can no longer pick up the full load of trash, as it has to now lift trash + chute.

Note: Payload is what the vehicle can carry. Tow capacity is what the vehicle can pull. Payload is a grand total, so payload will include driver, passenger, tools/equipment, plus all options.

Do not overload the vehicle, as this can become hazardous.

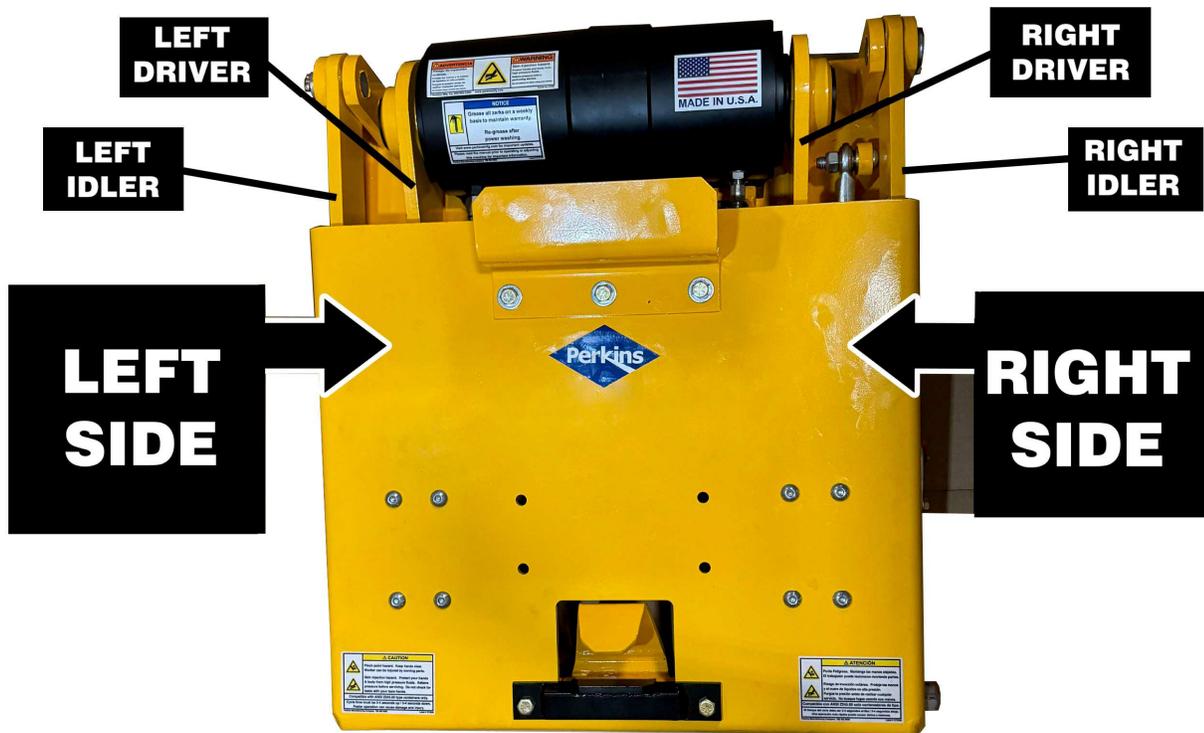
Example: Overloaded vehicles can take longer to come to a stop, or might be top heavy and be more likely to tip over if turned rapidly.



ORIENTATION OF LEFT AND RIGHT HAND SIDES

To eliminate any confusion when discussing “left” and “right”, please see graphic below. Left and Right is that of the observer, when viewing the machine from the front of the machine.

**AS VIEWED WHEN LOOKING
AT THE FRONT OF THE LIFTER.**



Drivers are always connected to the actuator hubs.

Idlers are not connected to the actuator.

Lifter shown is for example only. Your model may vary in appearance.



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

800-882-5292

Revised: 11/15/23
Addendum

Please be aware of the risks of working with welding equipment and consumables. Always use safety protection equipment. The sparks may ignite fire, always clean the area from flammable material or flammable chemicals, do not weld close to gas lines or on top of electrical cords or installations. Disconnect battery cables from the battery and make sure the vehicle is perfectly grounded prior to attempt to do any weld. Always weld in a ventilated area.



WHEN WELDING, WEAR APPROPRIATE EYE AND SKIN PROTECTION. WELDING LIGHT CAN BLIND. WELDING LIGHT CAN SUNBURN THE SKIN. LONG TERM EXPOSURE TO WELDING LIGHT CAN CAUSE CANCERS. ALWAYS WEAR PPE WHEN WELDING. PROPER PPE SHOULD ALSO BE WORN BY ANYONE IN THE THE WORK ZONE WHO MIGHT ALSO BE EXPOSED.

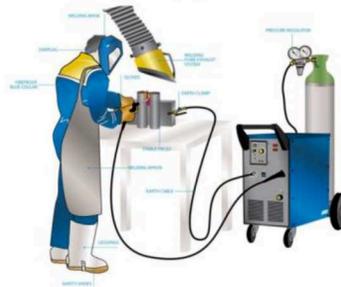
**WATCH YOUR SPARKS!
HELP PREVENT WILDFIRES**

Precautions to take when you use welding equipment outdoors.

- Remove vegetation from the work area.
- Where vegetation can't be removed, use a sprayer to wet down the work area prior to starting welding operations. Wet a wider area on the down-wind side from the welding location. If working in the same area for an extended period, re-wet the vegetation surrounding the work site.
- Keep water handy.
- Put a fire watch in spot any
 - fires that sparks ignite so that they can be caught while small.
- Avoid parking vehicles in dry grass tall enough to reach the catalytic converter on the underside of your vehicle.



Correct and safe electric welding station



HYDRAULIC SYSTEMS CAN LEAK OUT HIGH PRESSURE WHICH CAN CAUSE SERIOUS INJURY, GANGRENE OR DEATH. DO NOT CHECK FOR LEAKS WITH YOUR BARE HANDS AND AVOID CONTACT WITH LEAKING OIL STREAMS.

HYDRAULIC OIL CAN ENTER THE BLOODSTREAM. SEEK MEDICAL ATTENTION IMMEDIATELY IF YOUR SKIN IS PUNCTURED BY HYDRAULIC OIL.

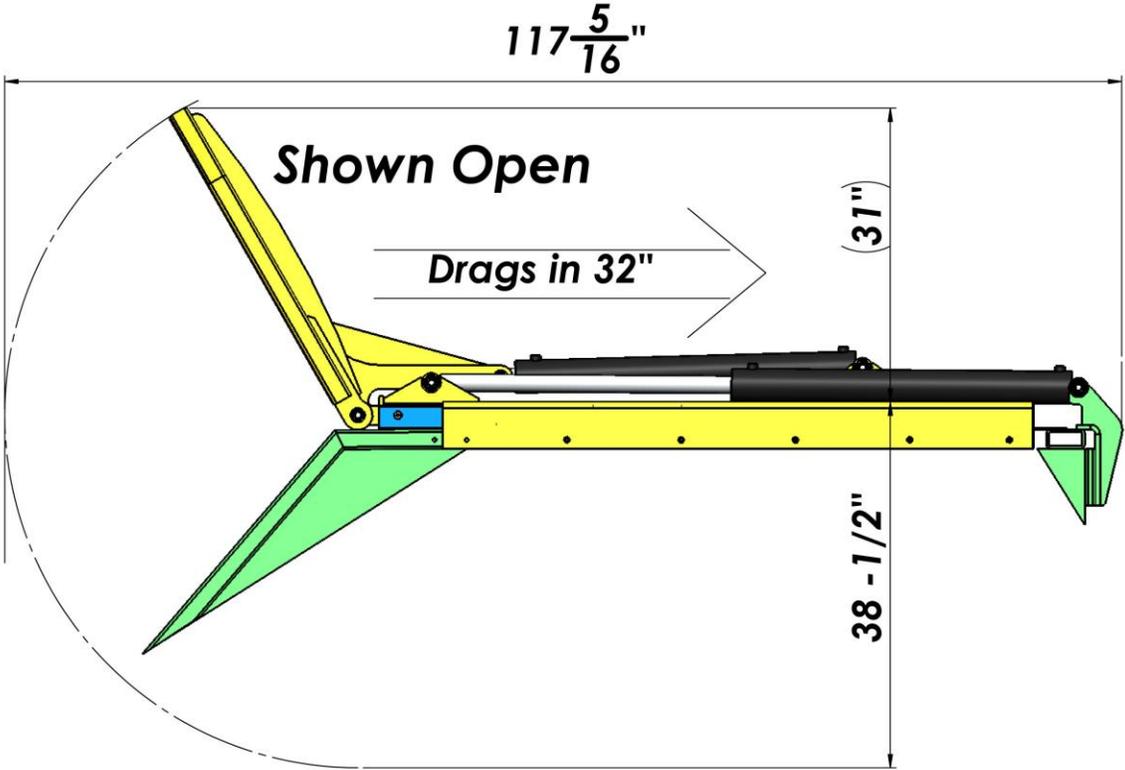
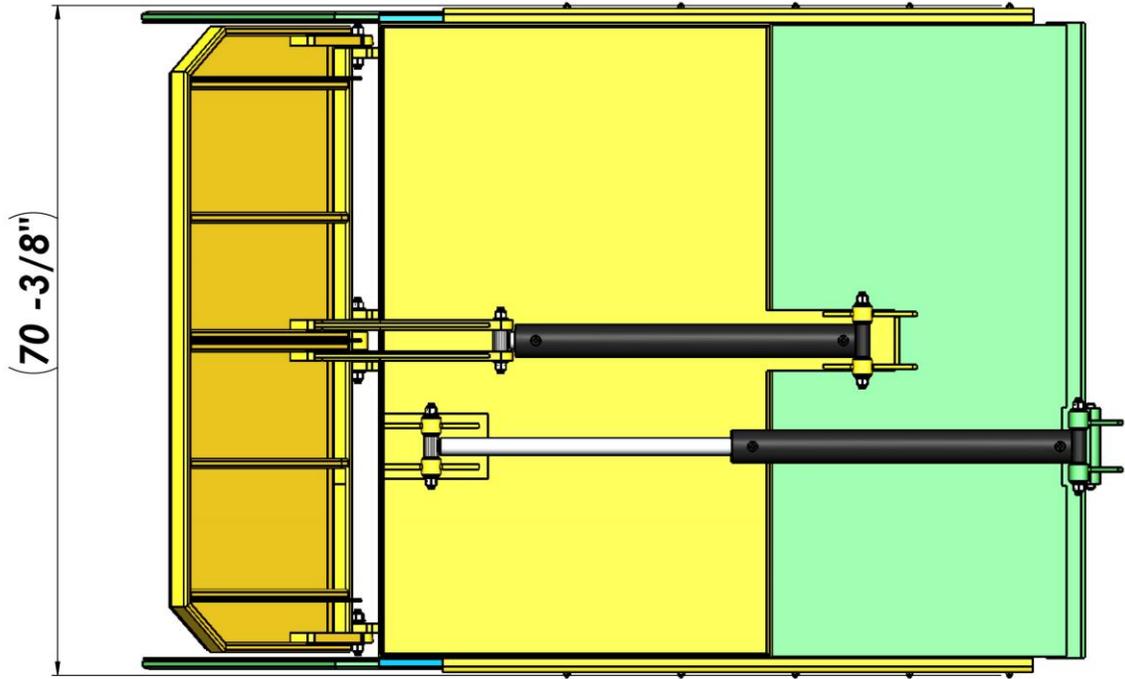
HYDRAULIC SYSTEMS CAN BECOME HOT (GENERALLY UP TO 170-180 DEG. F.) TO AVOID BURNS, DO NOT TOUCH VALVES, ACTUATORS, CYLINDERS, AND OTHER HOT COMPONENTS, EVEN AFTER THE SYSTEM IS SHUT OFF IT WILL REMAIN HOT AND TAKE TIME TO COOL DOWN.

ALWAYS TURN OFF A SYSTEM BEFORE SERVICING IT. DEPRESSURIZE THE CIRCUIT BY ACTIVATING THE CONTROLS WITH THE SYSTEM OFF TO RELIEVE ANY BUILT UP PRESSURE.

NEVER WORK UNDER A RAISED LOAD. RAISED EQUIPMENT CAN SUDDENLY FALL WHEN A VALVE OR LINE IS OPENED (LIKE A MOUSETRAP). IF THE EQUIPMENT MUST BE SERVICED IN THE RAISED POSITION, SECURE THE EQUIPMENT WITH CHAIN OR STRAP TO HOLD IT UP SAFETY.



Overall Dimensions 6-Yard Full Body (D34000)



D34000 Weight 900 Lbs

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

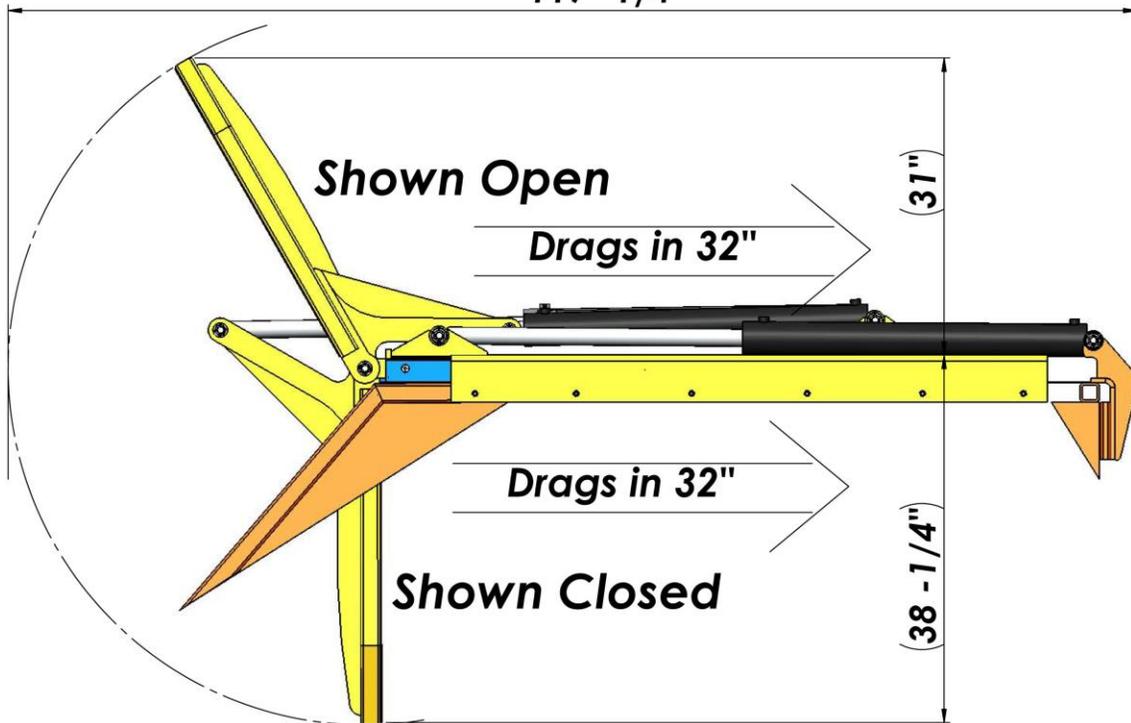
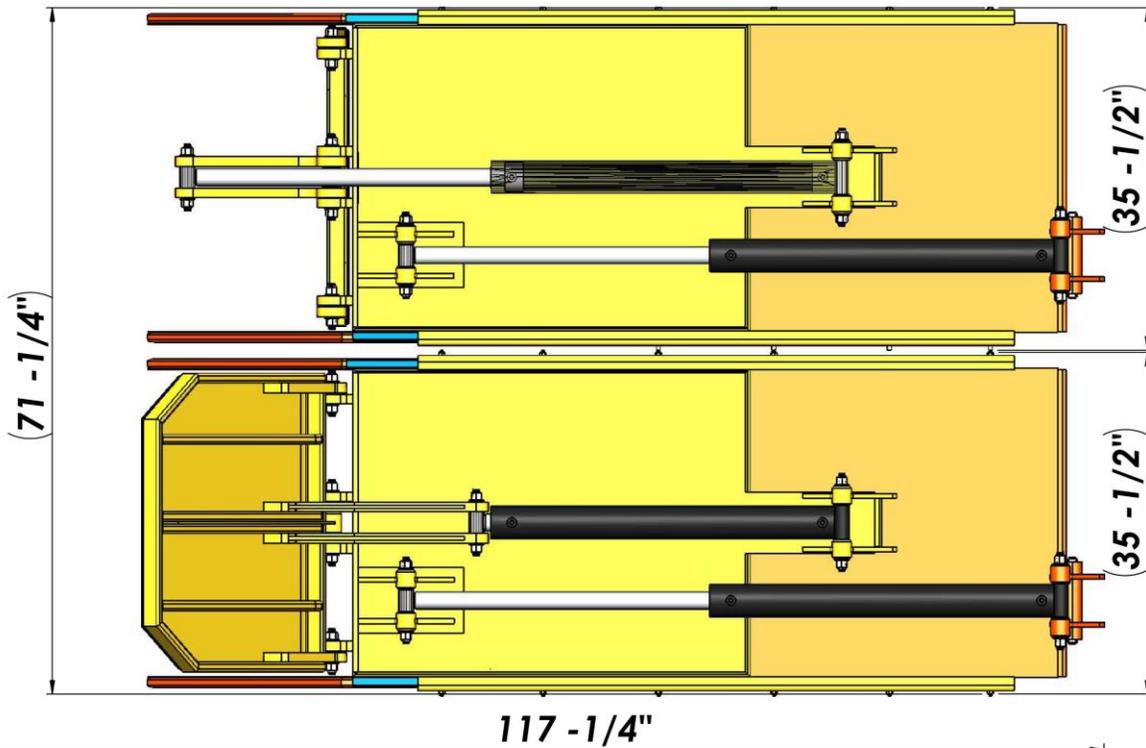


Perkins Manufacturing Company
 Creators of the TuckAway® Cart Lifter
 www.perkinsmfg.com

800-882-5292

Revise: 4/26/22
 Page 3 of 44

Overall Dimensions 6-Yard 50/50 (D34065)



D34065 Weight 1200 Lbs

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



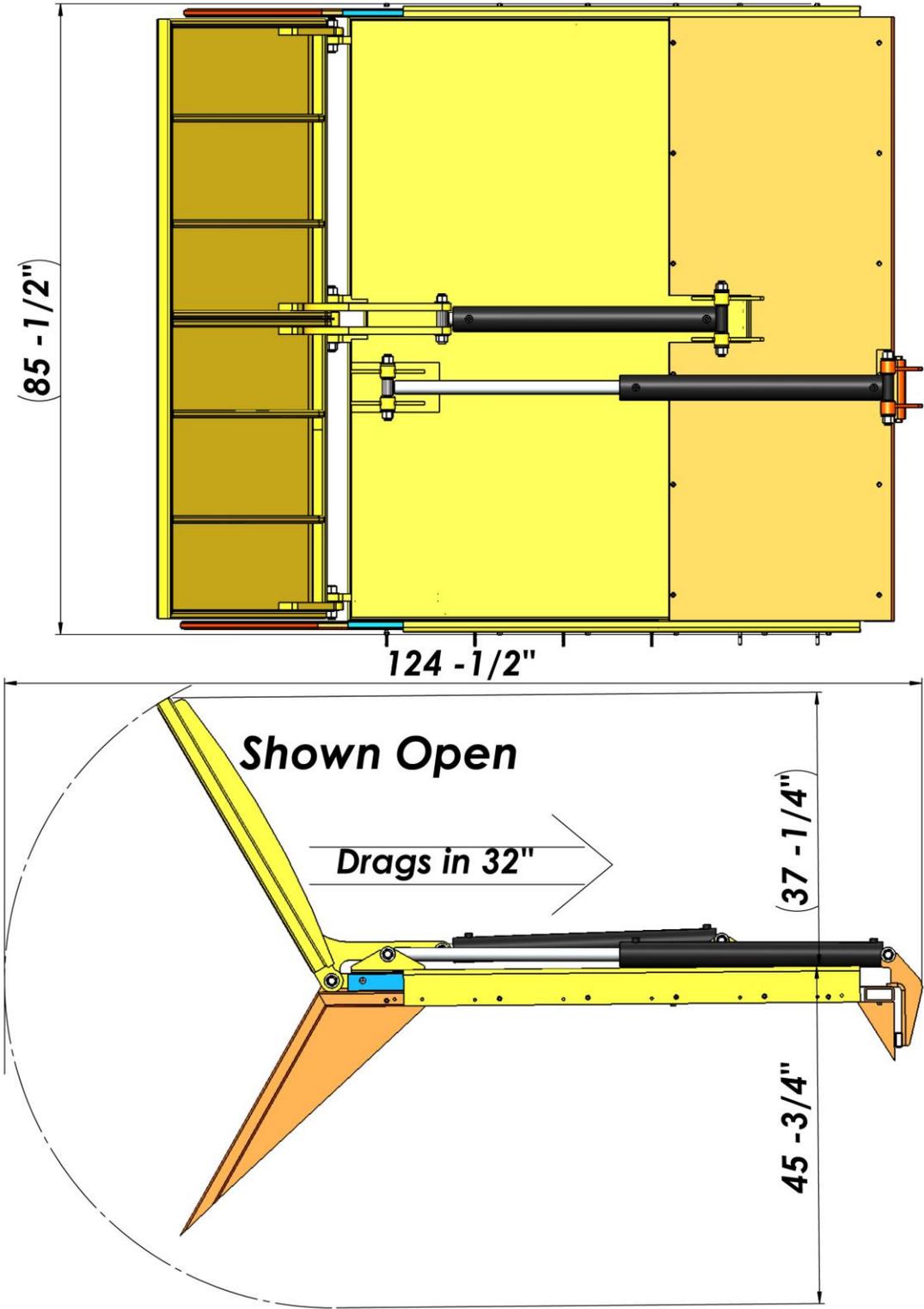
Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter
www.perkinsmfg.com

800-882-5292

Revise: 4/26/22

Page 4 of 44

Overall Dimensions 8-Yard Full Body (D39715)



D39715 Weight 1100 Lbs

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

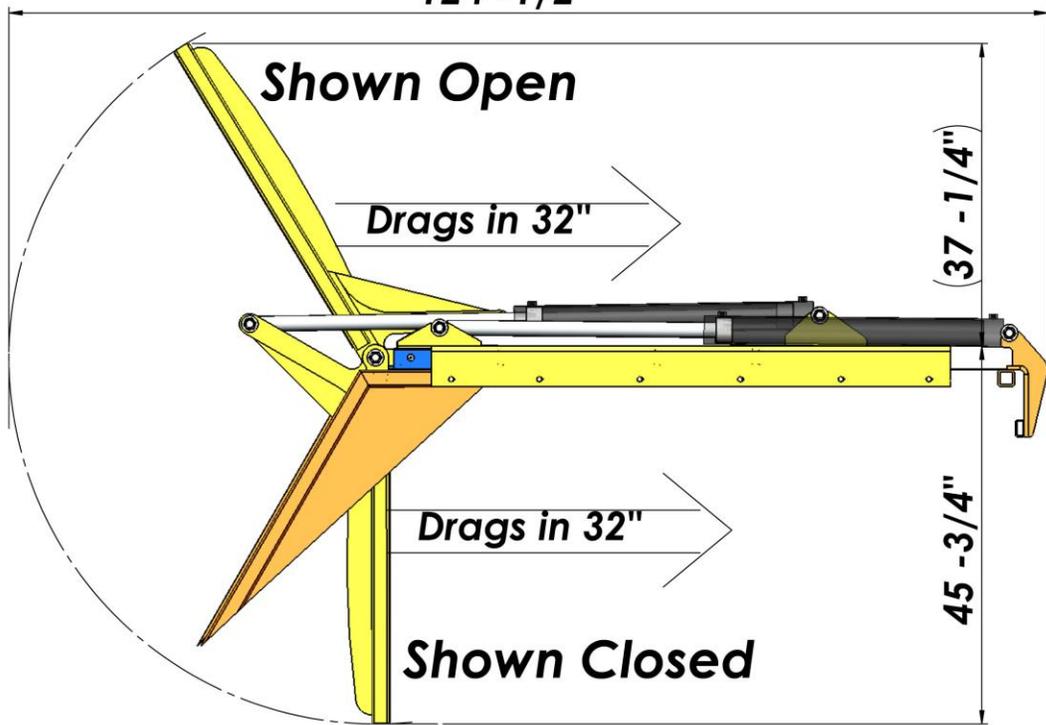
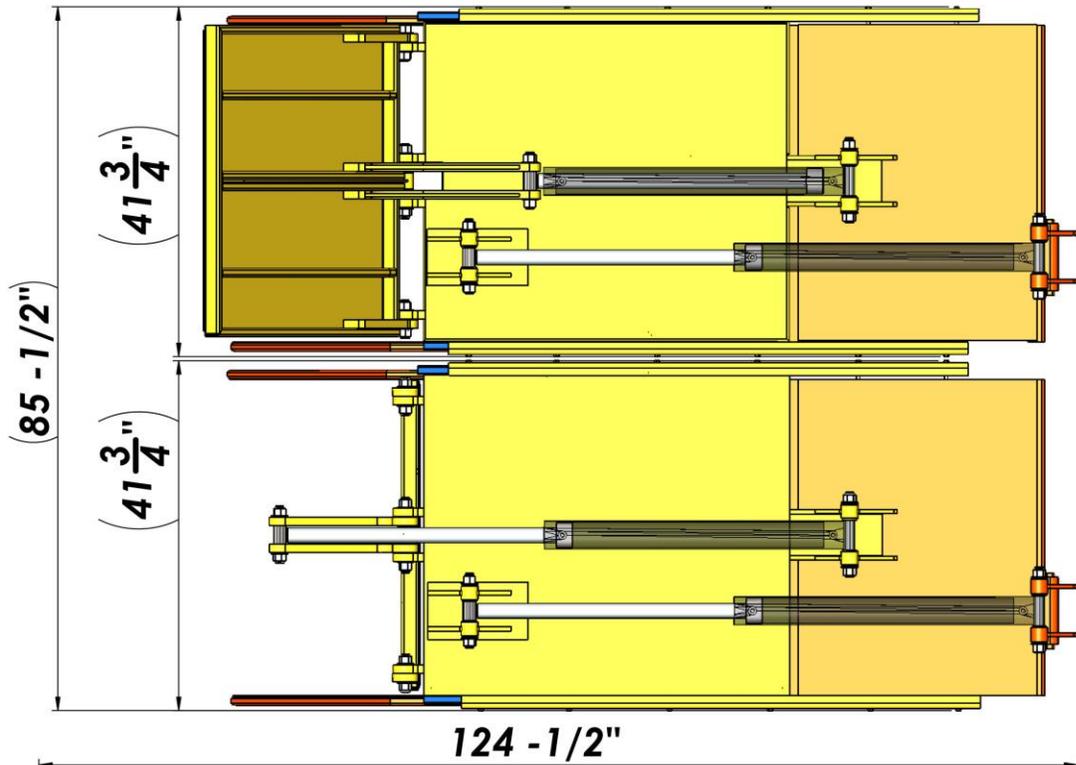


Perkins Manufacturing Company
 Creators of the TuckAway® Cart Lifter
www.perkinsmfg.com

800-882-5292

Revise: 4/26/22
 Page 6 of 44

Overall Dimensions 8-Yard 50/50 (D39730)



D39730 Weight 1400 Lbs

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



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

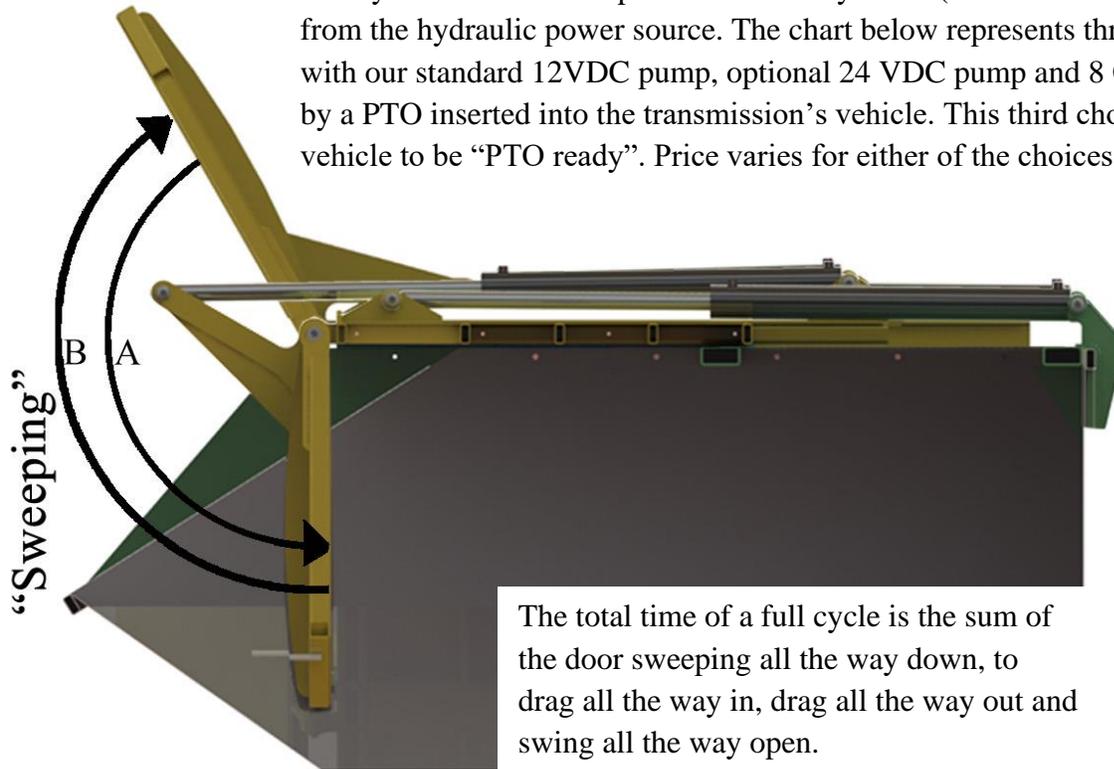
800-882-5292

Revise: 4/26/22

Page 8 of 44

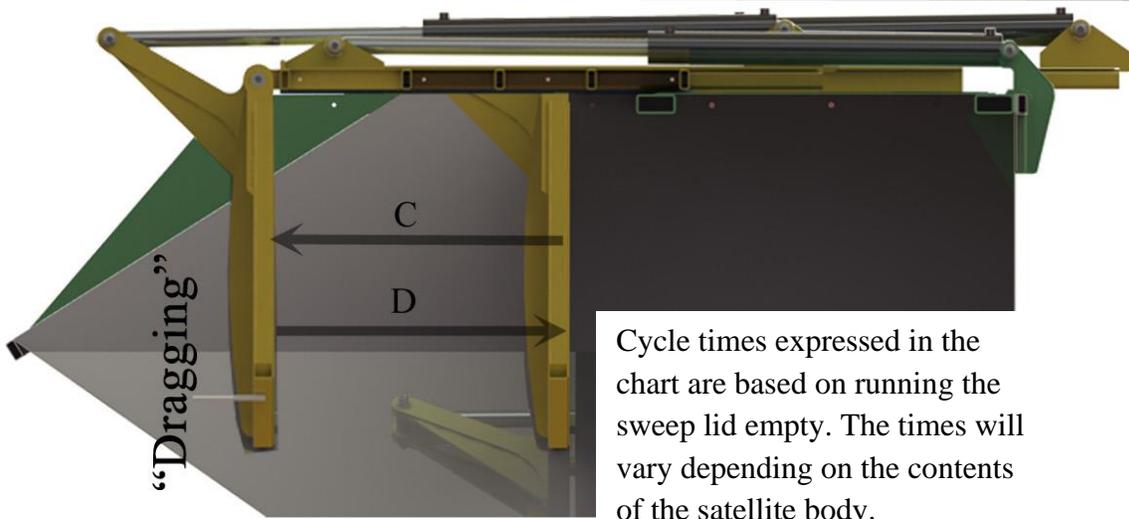
Cycle Times

The cycle time of a sweep lid is dictated by GPM (Gallons Per Minute) output from the hydraulic power source. The chart below represents three case scenarios: with our standard 12VDC pump, optional 24 VDC pump and 8 GPM pump driven by a PTO inserted into the transmission's vehicle. This third choice, requires the vehicle to be "PTO ready". Price varies for either of the choices.



The total time of a full cycle is the sum of the door sweeping all the way down, to drag all the way in, drag all the way out and swing all the way open.

	Standard, 12VDC (2 GPM) Pump	Optional, 24VDC (3.2 GPM) Pump	Optional, PTO & Pump (ex. 8 GPM)
A	27 Seconds	18 Seconds	7 Seconds
B	19 Seconds	12 Seconds	5 Seconds
C	19 Seconds	12 Seconds	5 Seconds
D	27 Seconds	18 Seconds	7 Seconds



Cycle times expressed in the chart are based on running the sweep lid empty. The times will vary depending on the contents of the satellite body.



Installation Safety

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 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 equipment in the upright position during the installation process. Unsecured equipment may fall suddenly causing injury.
- ✦ Clear the work area of flammable materials before performing any welding.
- ✦ 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 pump.
- ✦ 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.
- ✦ 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.
- ✦ 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.



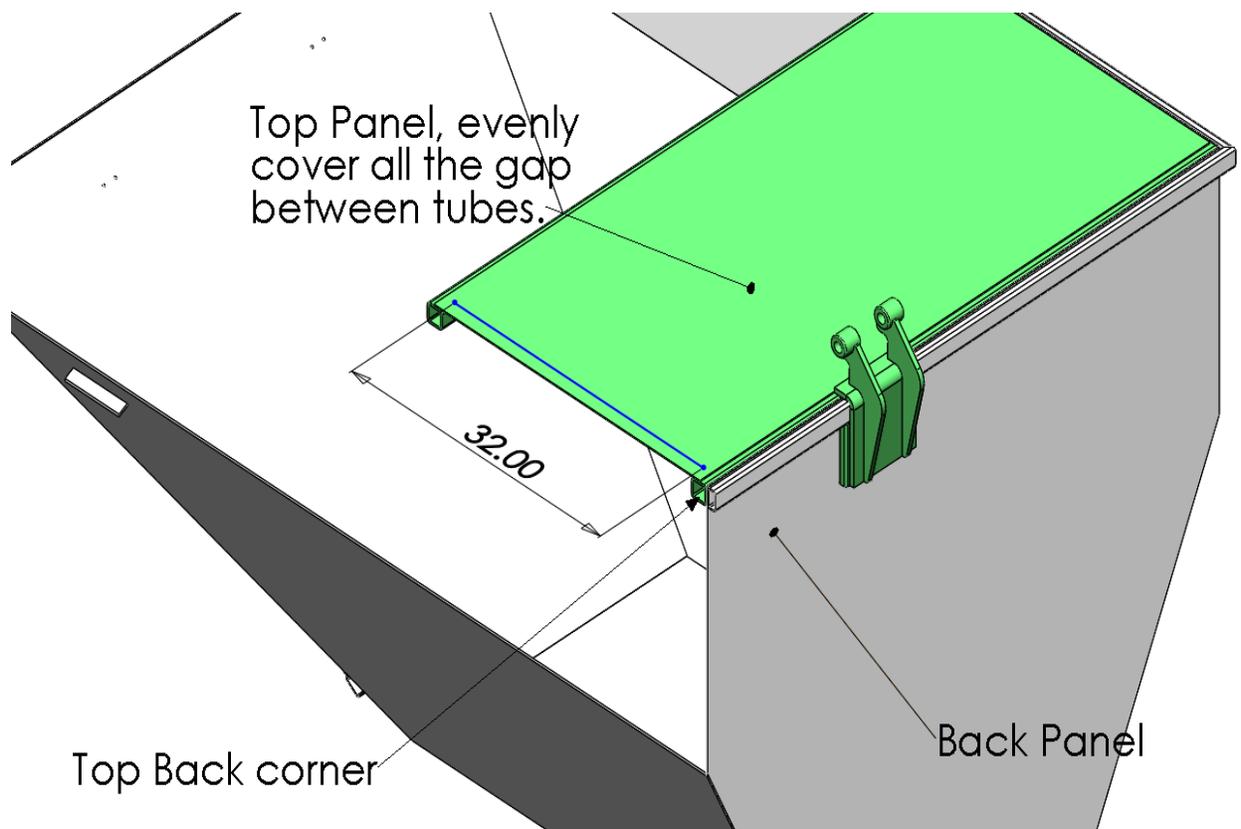
Installation

Although your satellite may come with Sweep Lid ready, already installed, the following instructions will describe how to install the sweep lid on an existent satellite to which we are adding the sweep feature.

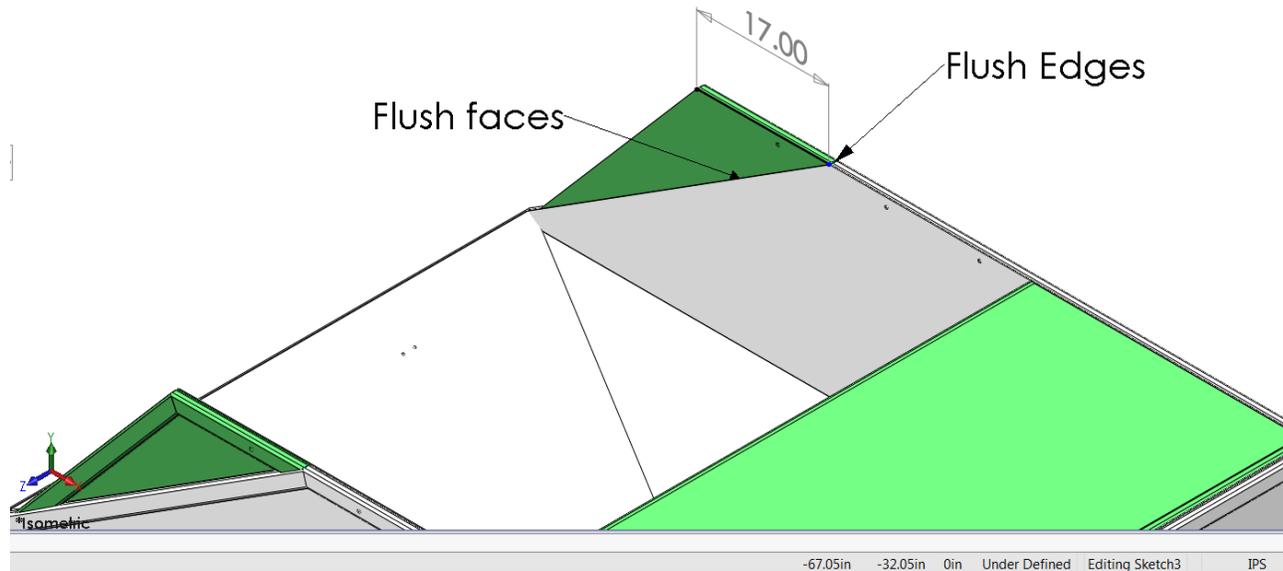
First, we need to install the weld on additions. Please make sure there is a ground cable connected to the truck's metal body and that battery cables have been disconnected prior to attempting any weld.

Remove the dust or grease from the areas to be weld and with the use of an electrical sanding machine, remove the paint, as this could cause a defective welding. Please ensure a safety environment with proper ventilation and proper safety equipment for proper protection, remember, if there is a doubt if a protection is necessary or not, will never be too much for our protection.

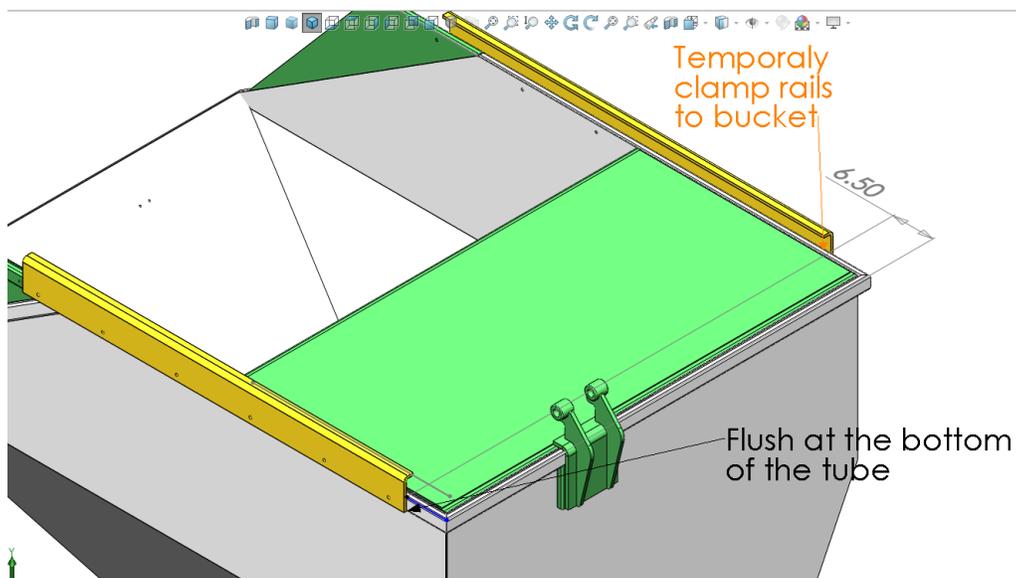
After all the cautions had been covered, proceed to install the upper tubes (8). Begin to install the one that needs to be flush to the top and against the back panel, right at the upper back corner, tack weld in position. Measure 32" for the 6-yard satellite and 29" for the 8-yard, from the inside face of the tube already installed towards the front of the bucket and mark, that will be the position for the second tube (8), tack weld the tube flush to the top and in the mark that you just did. Now lay the top panel (7) on top of the tubes and installed from the center of the first tube and accommodate evenly to cover the gap that is between tubes, tack weld only. See image bellow.

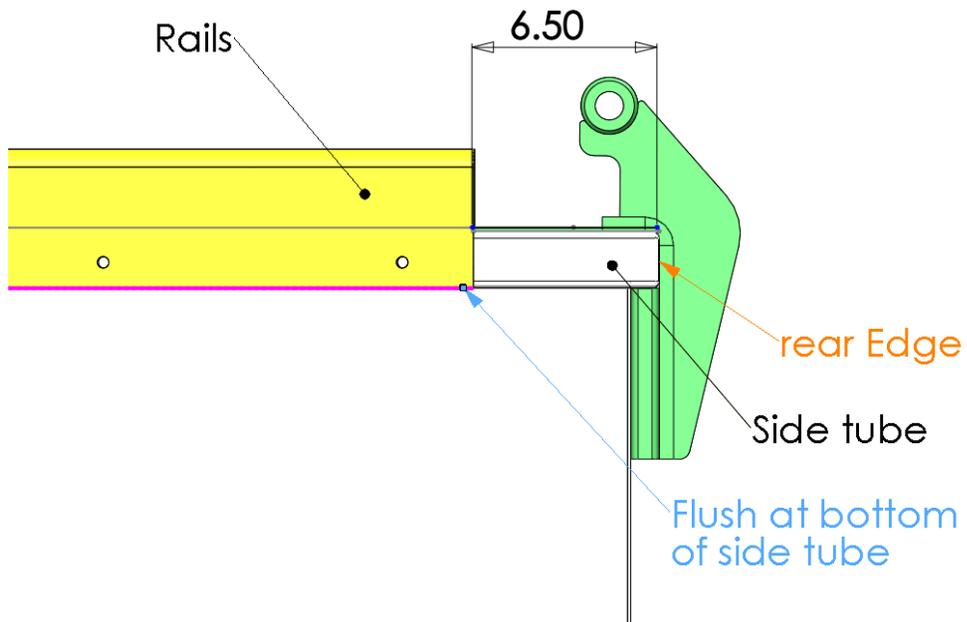


Install the overflow corner weldments (5) & (6), install them flush to the inside of the bucket side panel and flush to the top edge of the outside tubes, these over flow corner weldments are meant to move the corner of the bucket 17" towards the back. Tack weld only. See image bellow.

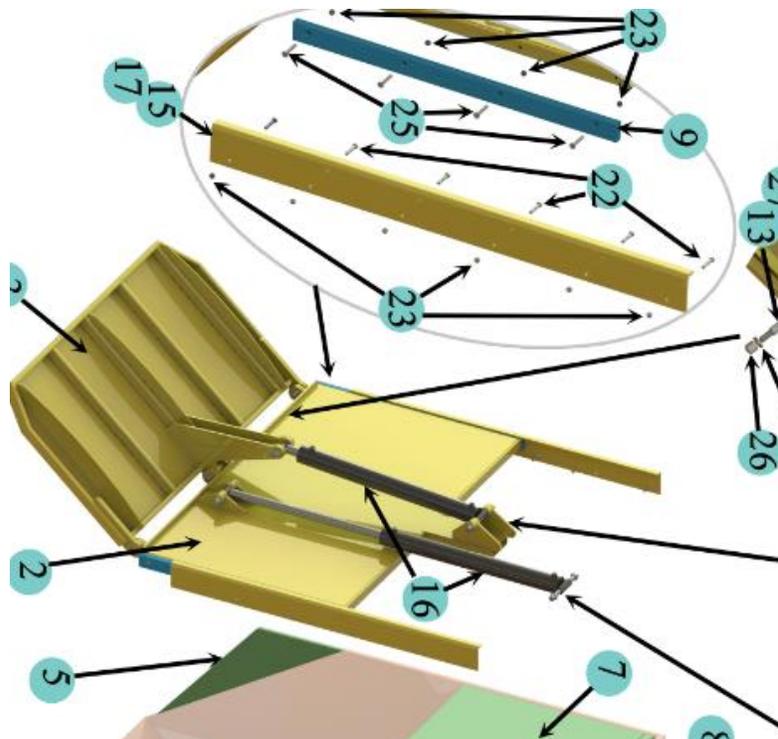


For the following step we will need a power drill, air or electric, with a 13/32" drill bit, to make it easier, it can be done in two stages, first use a 3/16" drill bit and second use the 13/32". We will also need a clamping device to temporarily secure the side rails (15) & (17), locate the rails at 6-1/2" from the back of the rear tube to where the rail is going start and flush to the bottom of the side tubes, mark the holes location, remove the rails and drill. See below.



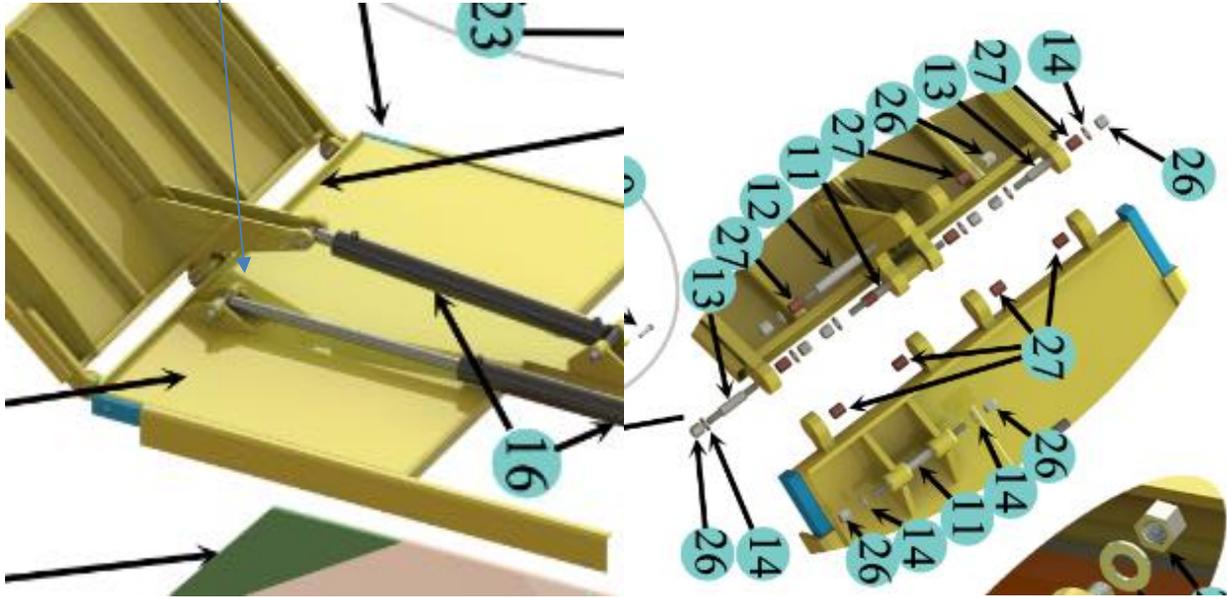


Once the holes are drilled attach the rails (15) (17) to the bucket (29) or buckets (31) (32) with the bolts (22) and nuts (23), tight appropriately. Attach Nylon slide blocks (9) to slide weldment (2) or weldments (2) (2a) with the bolts (25) and nuts (23), tight appropriately. If slide weldment (2) and swivel door (3) don't have the bushings (27) installed, press them into their location before installation.

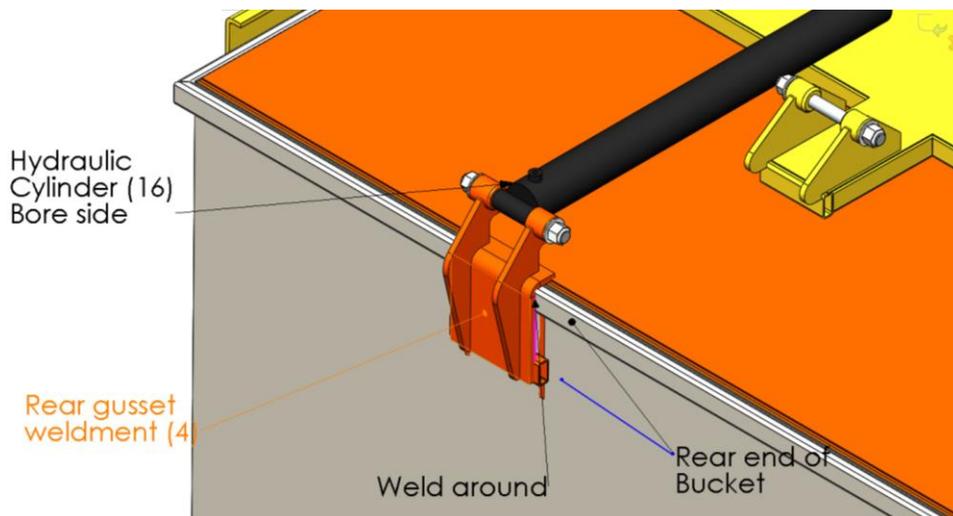


With the use of heavy lifting equipment, Slide the assembly from the back of the bucket (from where the overflow corner triangles are installed) thru the rails, a gap, side to side, no less than 1/8" and no more than 1/2" and no less than 1/8" no more than 1/4" top/down, should be observed between rails and slide weldment assembly.

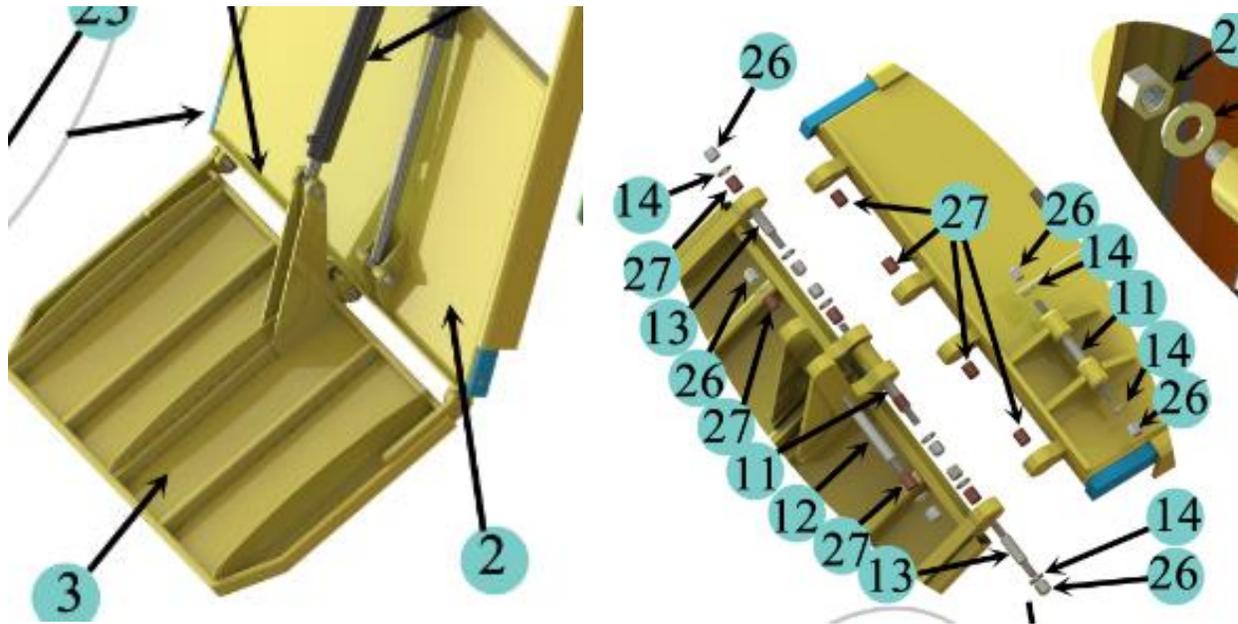
Push the slide assembly all the way in and install the hydraulic cylinder (16) into its assigned location, insert the cylinder rod side and secure it with pin (11) lock the pin (11) with spacers (14) and nuts (26).



At the other end, bore side, of the cylinder (16), already attached from one side, install the rear gusset weldment (4), secure it with pin (10) and lock the pin (10) with spacer (14) and nuts (26). With the cylinder (16) all the way closed and the weldment (4) attached, sit the weldment (4) on top of the bucket and against the rear end. Before welding the rear weldment gusset (4), make sure cylinder is all the way closed and cylinder is perfectly aligned as is necessary for proper operation, tack weld the rear gusset weldment in place.



With the use of heavy lifting equipment, lift the swivel door (3) or swivel doors (3) (3a) and align it with the slide weldment (2) already installed. Center the piece and align the holes, insert and secure with pins (11) and (13) and lock the pins with spacers (14) and nuts (26), make sure the door freely rotates.



Attach the second hydraulic cylinder (16) to the slide weldment (2) from the rod side and to the swivel door (3) from the rod side, secure with pins (10) and (12), lock the pins with spacer (14) and nuts (26).

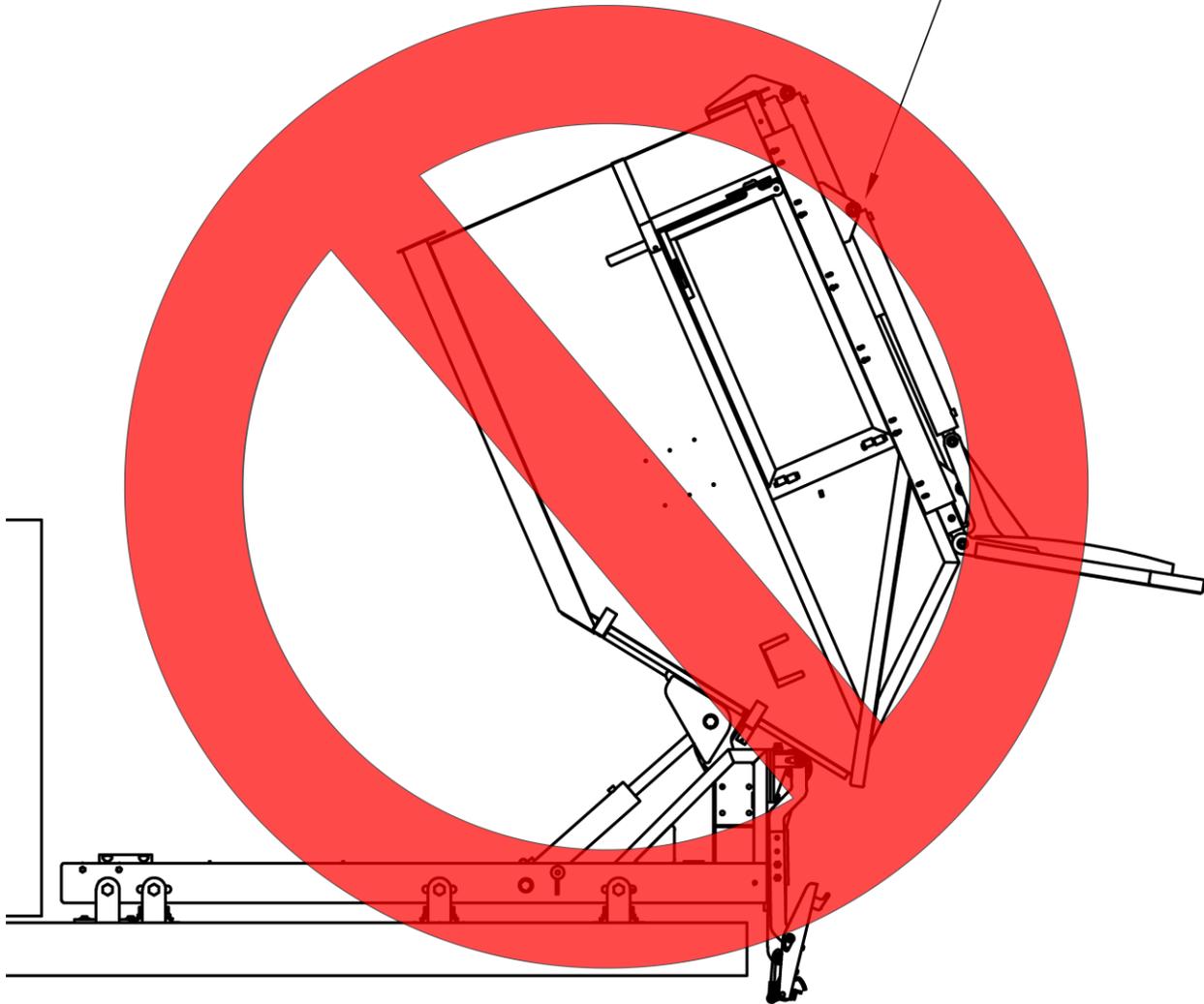
After this last step is completed, is time to hydraulically test the unit prior to fully weld all the components. With caution and considering all the safety advices before mentioned, apply hydraulic power to the cylinders. Run the two operations fully to make sure movement is free and without hesitation, ensure alignment and remove all the components, leaving only those to be weld. With the use of heavy lifting equipment, we can remove all the components without the need of disassembling if that is preferred. Once the operation has been validated, fully weld the components, clean and paint or re-paint, making sure not damaging or painting over safety labels. Finalize the assembly.



CAUTION!

SAT BODY MUST BE FULLY DOWN IN ORDER TO OPERATE DRAG SLED OR SWEEP LID SAFELY.

DO NOT OPERATE DRAG SLED OR SWEEP LID WHEN SAT BODY IS ELEVATED!



The optional Sweep-Lid will not break up furniture, household appliances, scrap wood, etc. If your SAT is equipped with a sweep lid, be careful not to use it to crush up bulky items or damage will occur. The sweep lid is not intended to function as a compactor. This type of damage is considered operator error and is not covered by warranty.



Hydraulic installation

When a satellite is purchased with a sweep lid already installed, all the welding and drilling instructions mentioned in the previous pages, does not apply. The instructions on how install a two hydraulics sections on the already existent hydraulic pack to operate the sweep lid, will not apply as well, the power pack will come with all the necessary valves for its functions already installed.

Depending on the number of hydraulic devices your satellite is equipped with, this will be the number of hydraulic valves your power pack will have attached. However, this instruction applies for existent satellites with the need of adding sweep lids or any other hydraulic device that originally was not equipped.

The sweep lid operation requires two extra valves to be added in the case of a full body application, and in the case of a split body application, this will require four extra valves addition.

Hydraulic components, necessary for the sweep lid installation:



1- 4 button pendant control for full body application.



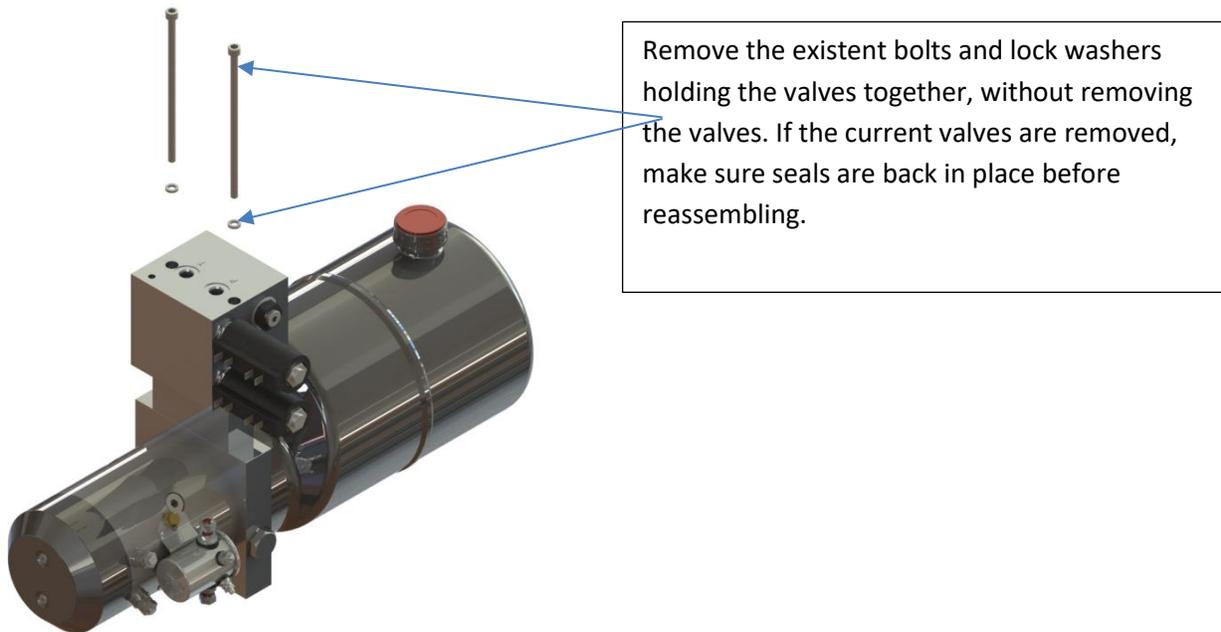
2- set of valves to add. Which will include: 2 -valves, 4 -O-ring seals, 2- lock washers, 2- lock nuts, 2 long threaded rods.

This will be for the full body application, for the split application will be double the amount.

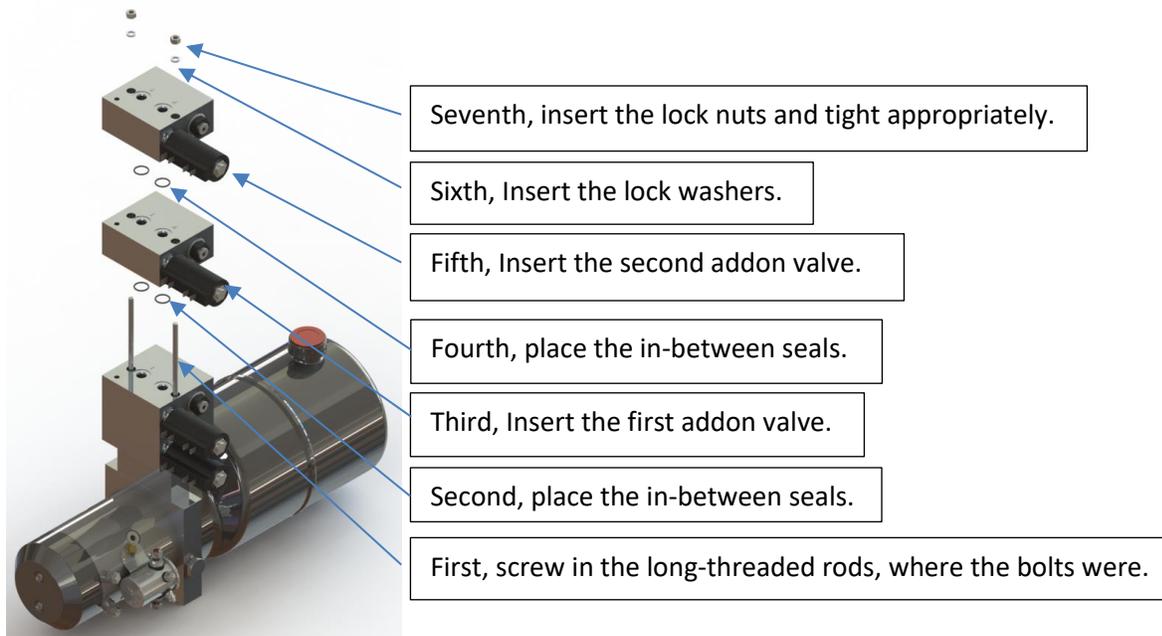
4 long hydraulic hoses and set of clamps to weld and route the hoses through the sides of the bucket.

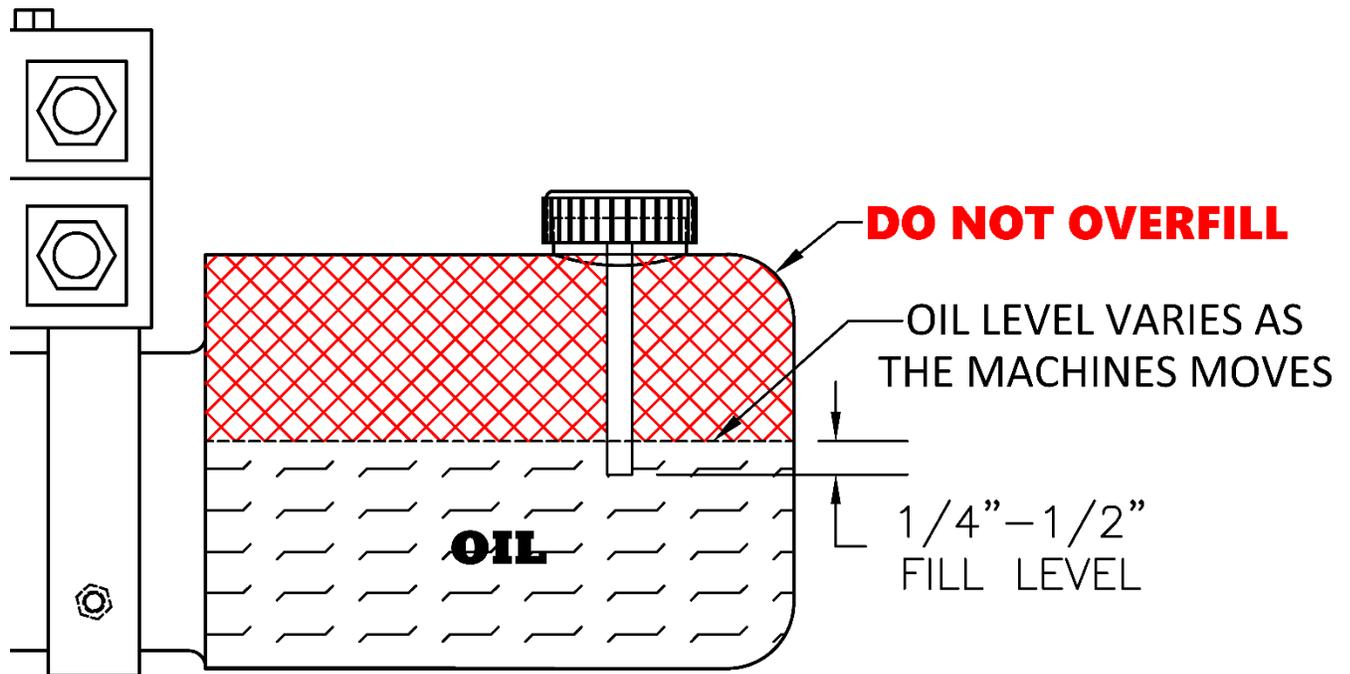


Locate the power pack and remove the bolts holding the valves together, do not remove or move the valves, hydraulic seals are trapped between sections, if for some reason the valves are moved or separate from the assembly, make sure the seals are in place before reassembling the valves.



Insert the long-threaded rods into the hole threaded grooves, where the bolts were and screw them in, install the first two seals on top of the existent valve, install the first valve, install the second two seals on top the added valve, install the second valve, secure and tight the assembly with the lock washer and lock nuts, tight appropriately. Before the next step, test the pump for proper assembling. Without removing the plugs from the added valves, run the existent functions, make sure there are no leaks.





The oil level inside the tank rises and lowers as the equipment moves up and down. It is normal for the tank to appear less than full at times.

For initial setup only, the cylinders and hoses may be empty of fluid and will have to fill. Pour oil into the tank half-full and operate the equipment slowly. As the equipment fills with oil, the level in the tank will drop. Continue to add oil slowly, and operate the equipment bit by bit, until the cylinders and hoses are full. It will be necessary to bleed the air out of the system by operating all functions of the unit repeatedly until all the air has been flushed out. While there is air in the lines, the movement will at times be jerky or have a stutter. Once the air is completely out, the movement will become smooth.

NOTE: DO NOT OVERFILL THE OIL TANK.

The tank is “full” when the dipstick reaches about 1/4”-1/2” into the oil level. **NEVER FILL THE TANK TO THE TOP, EXCESS OIL WILL OVERFLOW OUT.**

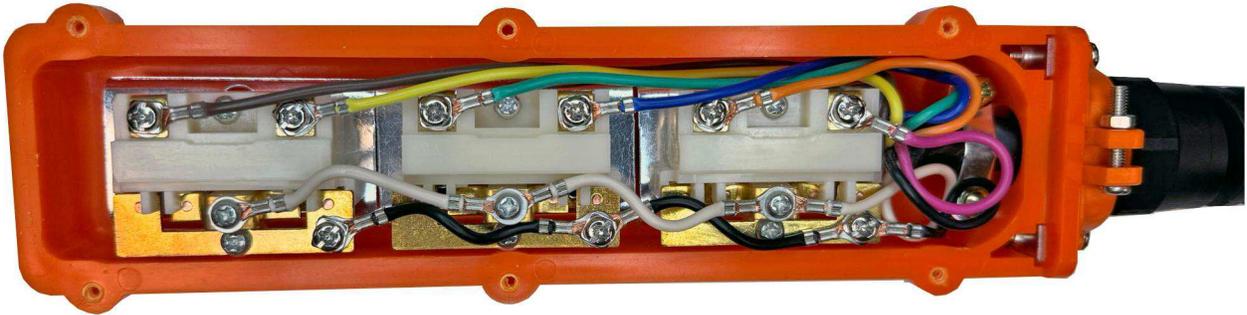


Once the installation of the valves has been completed and tested to prove that there are no leaks, begin to weld the hose clamps. Weld the clamps to route the hoses, not obstructing doors or getting on the way of moving parts, since the bucket swivels up and down, account for the movement trying to have enough slack for the hoses not to be too tensioned or too loose. See Below images

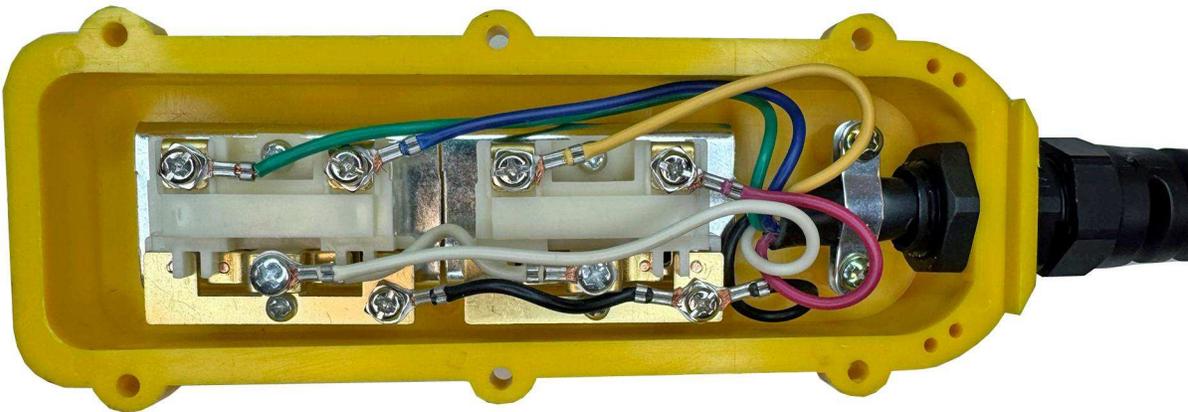
Route hoses to clear doors and close to the edges



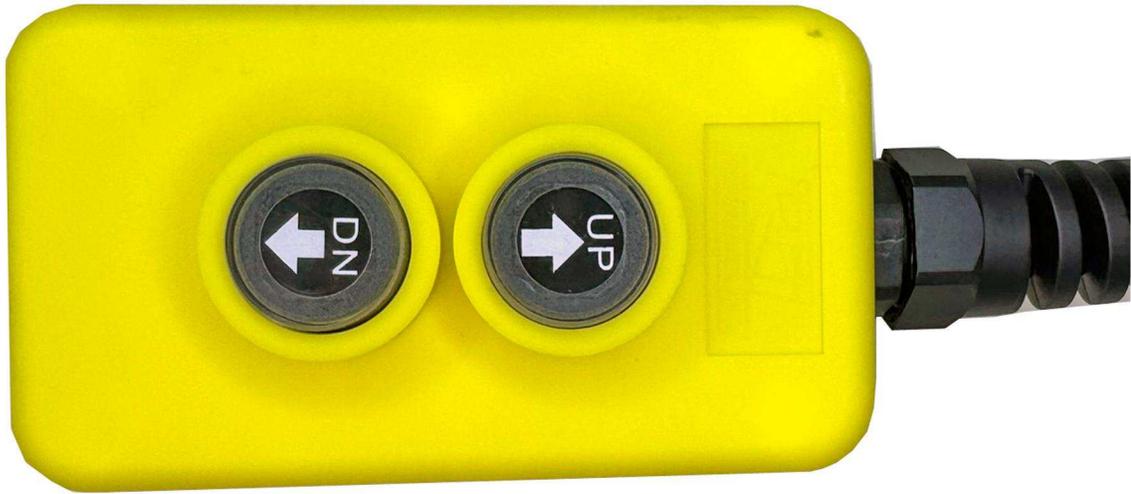
Perkins Pendant Wiring



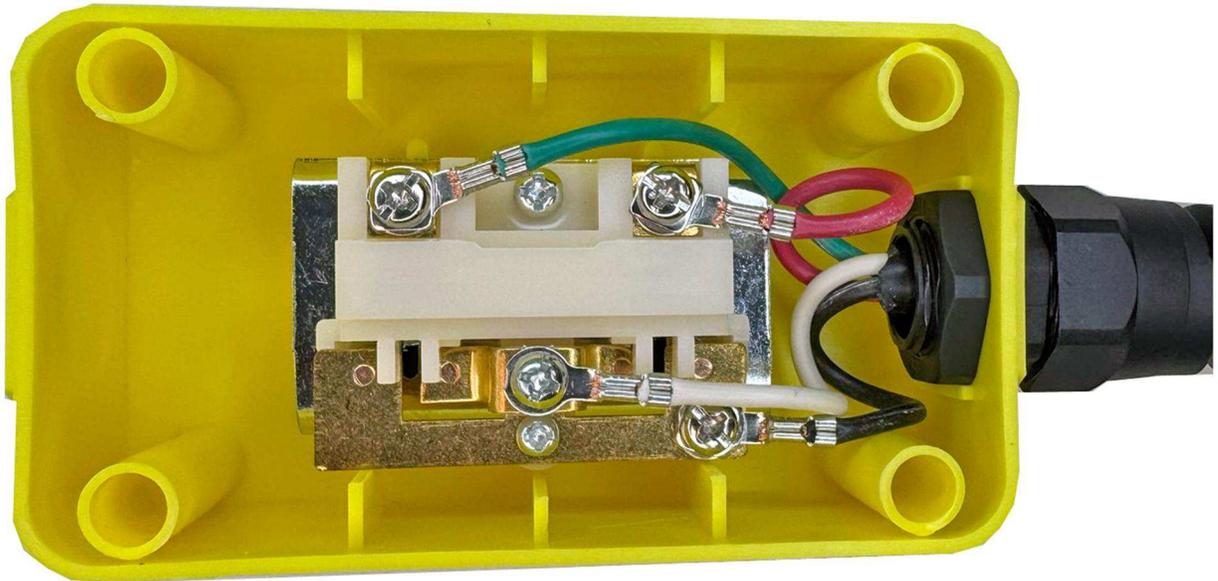
The pendant comes prewired. If repairs are necessary, re-wire the pendant as shown.



Perkins Pendant Wiring

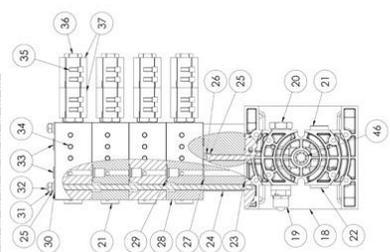
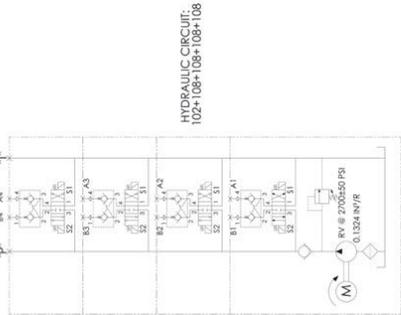
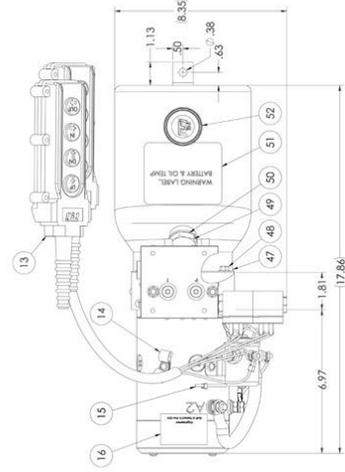


The pendant comes prewired. If repairs are necessary, re-wire the pendant as shown.



DC Power Pack Hydraulic Schematic, Overall dimensions and Parts View (Four Functions Shown)

REV	ECN#	DATE	DESCRIPTION OF CHANGE	DWG	APP
1				SC	10



GENERAL INSTRUCTIONS
 1. TORQUE PUMP MOUNTING CAPSCREWS TO 15-16 LB/FT.
 2. TORQUE MOTOR MOUNTING CAP SCREWS TO 6.9 LB/FT.
 3. IN TORQUE MOTOR, SET LCV, 080-B TO 3.1825" LSV, 08-34-M, LDFC-080 TO 18 LB/FT.
 4. IN TORQUE MOTOR, SET LCV, 080-B TO 3.1825" LSV, 08-34-M, LDFC-080 TO 18 LB/FT.
 5. SET LCV, 080-B TO 3.1825" LSV, 08-34-M, LDFC-080 TO 18 LB/FT.
 6. TORQUE STUDS ON START SOLENOID 391-19 TO 40 LB/IN.
 7. 391-19, 27-1, 27-16, 27-56, 27-57, 27-58, 27-59 & 394-6 WIRED COMPLETED.
 8. TORQUE MOTOR MOUNTING CAPSCREWS TO 15-16 LB/FT.
 9. INSTALL ITEM #6 (WARNING LABEL) @ SOLENOID POST AFTER THE TEST IS COMPLETED.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY
1	1245-18	12V DC (2) TERMINAL ELECTRIC MOTOR, 9T MALE SPLINE, GREY	1
2	Q1-4-025	1/4" STEEL SPLIT LOCK WASHER	2
3	Q19-025-0038-23	1/4-20 X 3/16" STEEL HEX FLANGE HEAD SELF TAPPING SCREW	2
4	27-1-6	GROUND WIRE (MOTOR GROUND TERMINAL TO SOLENOID GROUND TERMINAL)	1
5	27-1-1	TERMINAL WIRE (SOLENOID TERMINAL TO MOTOR POWER)	1
6	391-19	12V DC 125 AMP CONTINUOUS DUTY START SOLENOID, STEEL CASE	1
7	Q1-4-025	1/4" STEEL SPLIT LOCK WASHER	2
8	Q30-8	ELECTRICAL RING TERMINAL #16 POST, 22-18, 9D	2
9	27-56	GROUND WIRE (MOTOR GROUND TERMINAL TO 2 COILS)	1
10	27-57	GROUND WIRE (MOTOR GROUND TERMINAL TO 2 COILS)	1
11	27-59	GROUND WIRE (MOTOR GROUND TERMINAL TO 2 COILS)	1
12	27-59	GROUND WIRE (MOTOR GROUND TERMINAL TO 2 COILS)	1
13	394-6	4 BUTTONS REMOTE PENDANT ASSY (POWER UP, POWER DOWN, POINT, NYLON CABLE CLAMP, CLOSE DIA. 7/16")	2
14	Q34-10	NYLON BLACK CABLE TIE 8"	2
15	Q37-2	LABEL, AMERICAN FLAG, ENGINEER, BUILT & TESTED IN U.S.A.	2
16	31-1-2	LABEL, BATTERY, 12VDC, 10.5" X 1.5" X 1.5"	1
17	31-1-2	LABEL, BATTERY, 12VDC, 10.5" X 1.5" X 1.5"	1
18	3920-00058	KT UNIVERSAL MANIFOLD	1
19	LRV-080-B	#8 DIRECT ACTING CHECK VALVE, 0.3 BAR	1
20	LCV-080-F-0.3	CARRIAGE RELIEF VALVE, ADJUSTABLE SET @ 2700 PSI	1
21	U2-9	#8 2 WAY VALVE CAVITY PLUG	2
22	Q1-9020	O-RING, I.D. 0.84" C/R 0.070" BUNA N 90 DUROMETER	5
23	3030-10-11	RIBBER BLOCK, 2.00" UNIVERSAL MANIFOLD ADD ON	1
24	Q37-025-0000	1/4-20 X 1/4" COIL LOCK WASHER	3
25	Q1-901-6	O-RING, I.D. 0.84" C/R 0.070" BUNA N 90 DUROMETER	2
26	3030-40	DOUBLE ACTING SANDWICH MANIFOLD W/ #8 2ND RELIEF PORT	4
27	Q1-901-6	O-RING, I.D. 0.84" C/R 0.070" BUNA N 90 DUROMETER	2
28	Q1-901-6	O-RING, I.D. 0.84" C/R 0.070" BUNA N 90 DUROMETER	2
29	Q1-901-6	O-RING, I.D. 0.84" C/R 0.070" BUNA N 90 DUROMETER	2
30	Q1-901-6	O-RING, I.D. 0.84" C/R 0.070" BUNA N 90 DUROMETER	2
31	Q20-025	1/4-20 UNC HEX NUT	2
32	Q68-025-1000	STEEL THREAD ROD, 1/4-20 X 10.00"	2
33	Q75-4	EXPANDER SEALING PLUG, 8mm ALUMINUM	32
34	Q75-4	EXPANDER SEALING PLUG, 8mm ALUMINUM	32
35	Q75-4	EXPANDER SEALING PLUG, 8mm ALUMINUM	32
36	LSV-08-34-M	4WSP MOTOR, CENTER, SPOOL-TYPE CARTRIDGE SOLENOID VALVE	4
37	Q5-12	TAPERED CAP PLUG, 0.47" O.D. DIA (RED), LDPE	8
38	LDFC-080	DIAL PILOT OPERATED CHECK VALVE CARTRIDGE	4
39	Q5-12	TAPERED CAP PLUG, 0.47" O.D. DIA (RED), LDPE	8
40	Q1-4-10	1/4-20 X 1/4" COIL LOCK WASHER	4
41	Q1-4-10	1/4-20 X 1/4" COIL LOCK WASHER	4
42	Q1-4-10	1/4-20 X 1/4" COIL LOCK WASHER	4
43	Q1-4-10	1/4-20 X 1/4" COIL LOCK WASHER	4
44	Q1-4-10	1/4-20 X 1/4" COIL LOCK WASHER	4
45	Q1-4-10	1/4-20 X 1/4" COIL LOCK WASHER	4
46	52-22	3/8" NPT INLET STRAINER, 120 MESH PLEATED	1
47	8900-5	FEMALE SPLINE 9 TOOTH - TO FEMALE SLOT COUPLING	1
48	Q32-12	1/4-20 X 0.914 X 1.418 BSP PLUG, 1.25" HEX. CAP SCREW	1
49	Q32-12	1/4-20 X 0.914 X 1.418 BSP PLUG, 1.25" HEX. CAP SCREW	1
50	Q9-100-12	-12 BRITISH BONDED SEAL, I.D. 0.842" O.D. 1.375"	1
51	31-9	WARNING LABEL, BATTERY & OIL TEMP	1
52	31-9	WARNING LABEL, BATTERY & OIL TEMP	1
53	Q2-4-113	O-RING, I.D. 1.13mm, C/R 4mm, METRIC BUNA, RESERVOIR	1

12VDC Power Pack

4-Functions DC 4968 RA

THE DATE INDICATES THE LATEST REVISION DATE
 REVISOR: OCTOBER 14, 2016
 DESTROY OR MARK "VOIDABLE" ALL PREVIOUS PRINTS
 DWG. NO. **D48510-4**

© PERKINS MFG. CO. - ALL RIGHTS RESERVED. MAY NOT BE REPRODUCED OR COPIED IN ANY FORM WITHOUT EXPRESS WRITTEN CONSENT OF PERKINS MFG. CO.

REMOVE BURS & CHAMFER SHARP EDGES 1/32" MAX. ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED

FRACTIONAL ±1/64 ±1/32 ±1/64 ±1/32
 DECIMAL ±0.005 ±0.015 ±0.015 ±0.015
 ANGULAR ±1/2° ±1/2° ±1/2° ±1/2°
 COCENTRIC CIRCLES ±0.005 ±0.005 ±0.005 ±0.005

DIMS ARE IN INCHES [DIM SCALE DIM] DIMS ARE IN INCHES [DIM SCALE DIM]

RETURN QUOTES TO FAX# (708) 354-5878
 DRAWING TYPE: PIECE PART
 FEATURE #:
 ENGINEERING QUESTIONS: (708) 482-9500
 PLEASE REFER BY THE CURRENT REVISION LEVEL ON ALL QUOTES BILLING & CORRESPONDENCE.
 VENDOR HAS ANY SUGGESTIONS OR TO IMPROVE THE QUANTITY, PLEASE CONTACT THE DWG. DEPT.

Perkins Manufacturing Company

Cardos 10/14/2016

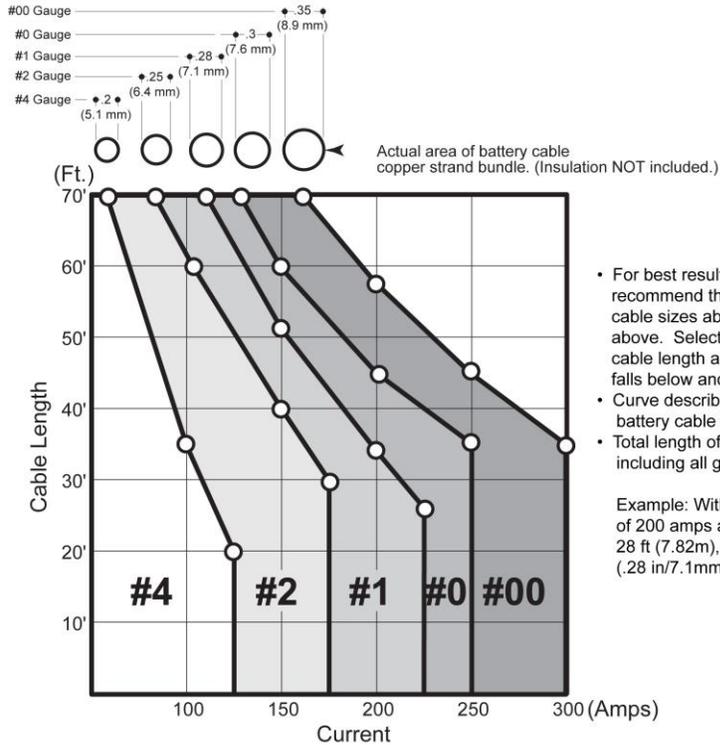


Perkins Manufacturing Company
 Creators of the TuckAway® Cart Lifter
 www.perkinsmfg.com

800-882-5292

Revise: 4/26/22
 Page 22 of 44

Power Draw Guide



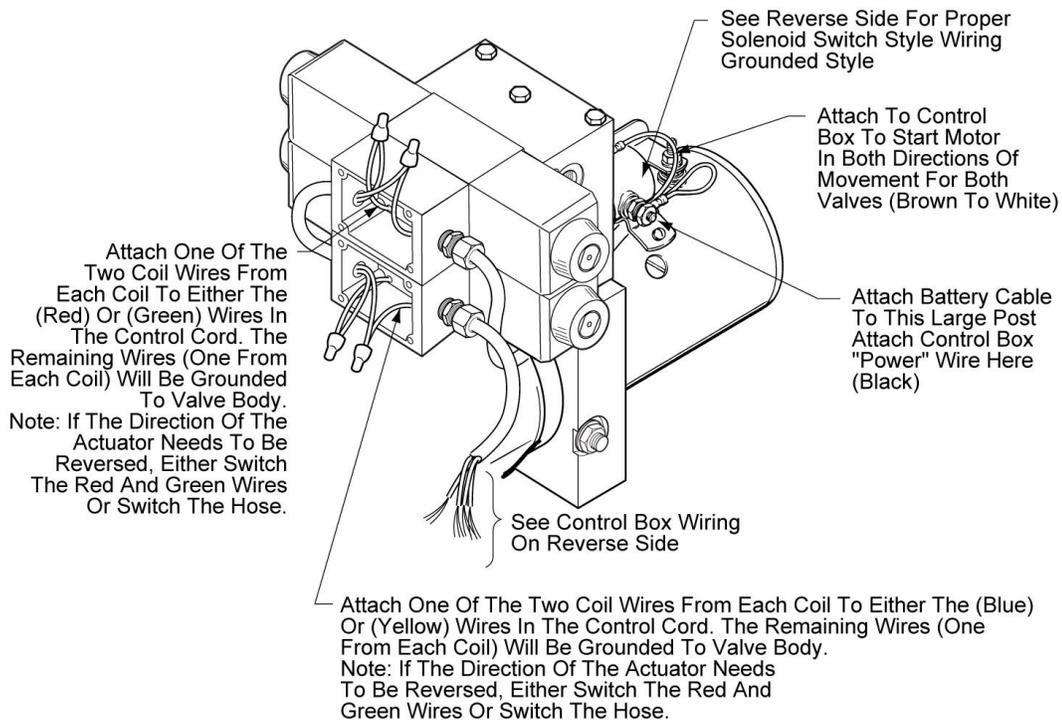
- For best results, Monarch would recommend that you increase 1 or 2 cable sizes above the minimum shown above. Select cable size so that your cable length and maximum amp draw falls below and to the left of curve.
- Curve describes a 1 volt loss in the battery cable itself.
- Total length of battery cable(s) including all ground cables.

Example: With maximum current draw of 200 amps and total cable length of 28 ft (7.82m), Select #1 gauge (.28 in/7.1mm) or larger.

It is required to run the electric supply lines directly up the battery of the truck for maximum power draw of 250 amps or the system will not have the proper lifting power.

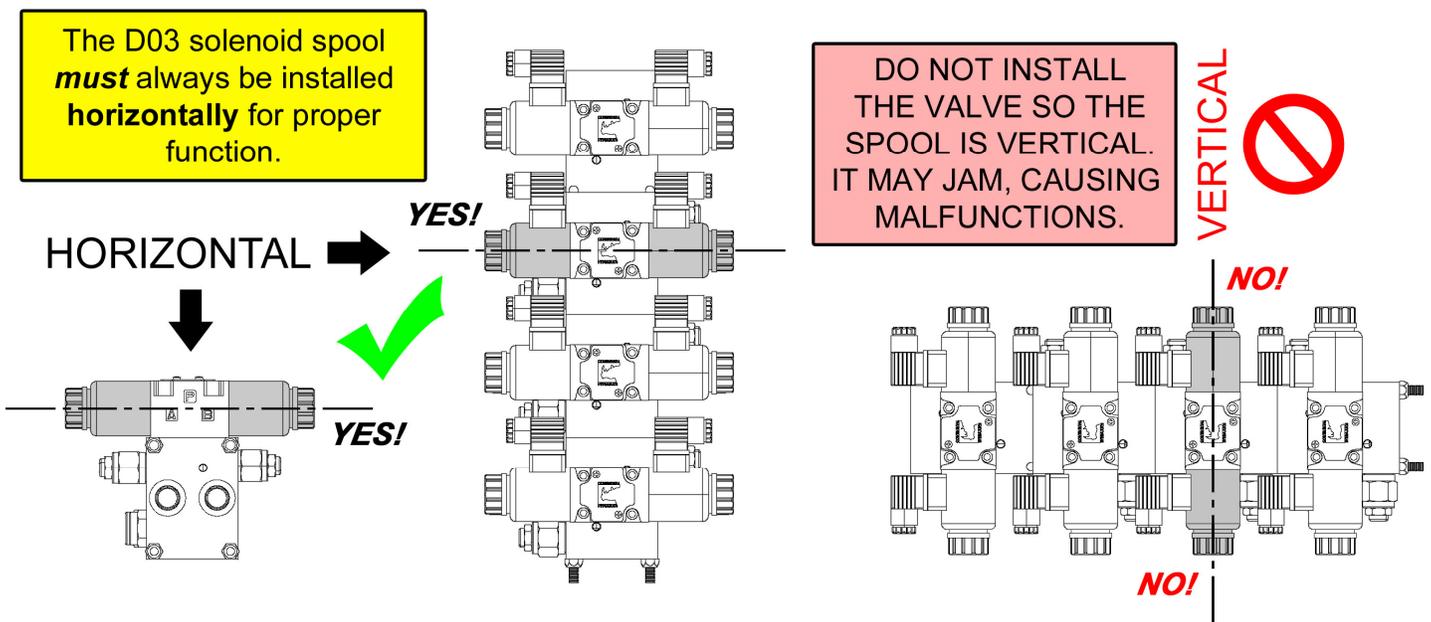
DO NOT SIMPLY ATTACH THE POWER SUPPLY TO A LIGHTING WIRE.

Solenoid Wiring Guide



NOTICE ON THE POSITION OF THE D03 DIRECTIONAL CONTROL VALVE STACK

The control valve stack must be installed in a way that the d03 spool is horizontal at all times. Inside the valve is a spool with springs. The springs self-center the spool when the power is disengaged. When positioned horizontally, the spool self-centers normally. When incorrectly positioned vertically, the springs must work harder to return the spool to center, which may lead to jamming and malfunctions.



Please orientate the valve properly during your installation process so malfunctions do not occur.

If the spool does become jammed, it can be freed by manually sticking a screwdriver into the slot at the end of the spool and giving a small push to un-stick the spool.



 WARNING	
	<p>This unit is equipped with an over-heat protection circuit.</p> <p>The circuit will shut off when the motor temperature is too hot, which will prevent the operator from damaging the motor with continued use.</p> <p>The circuit will automatically reset itself after the motor cools to a safe level. Then normal operation can resume.</p>

Do not paint over this label. Replace if damage

D72845

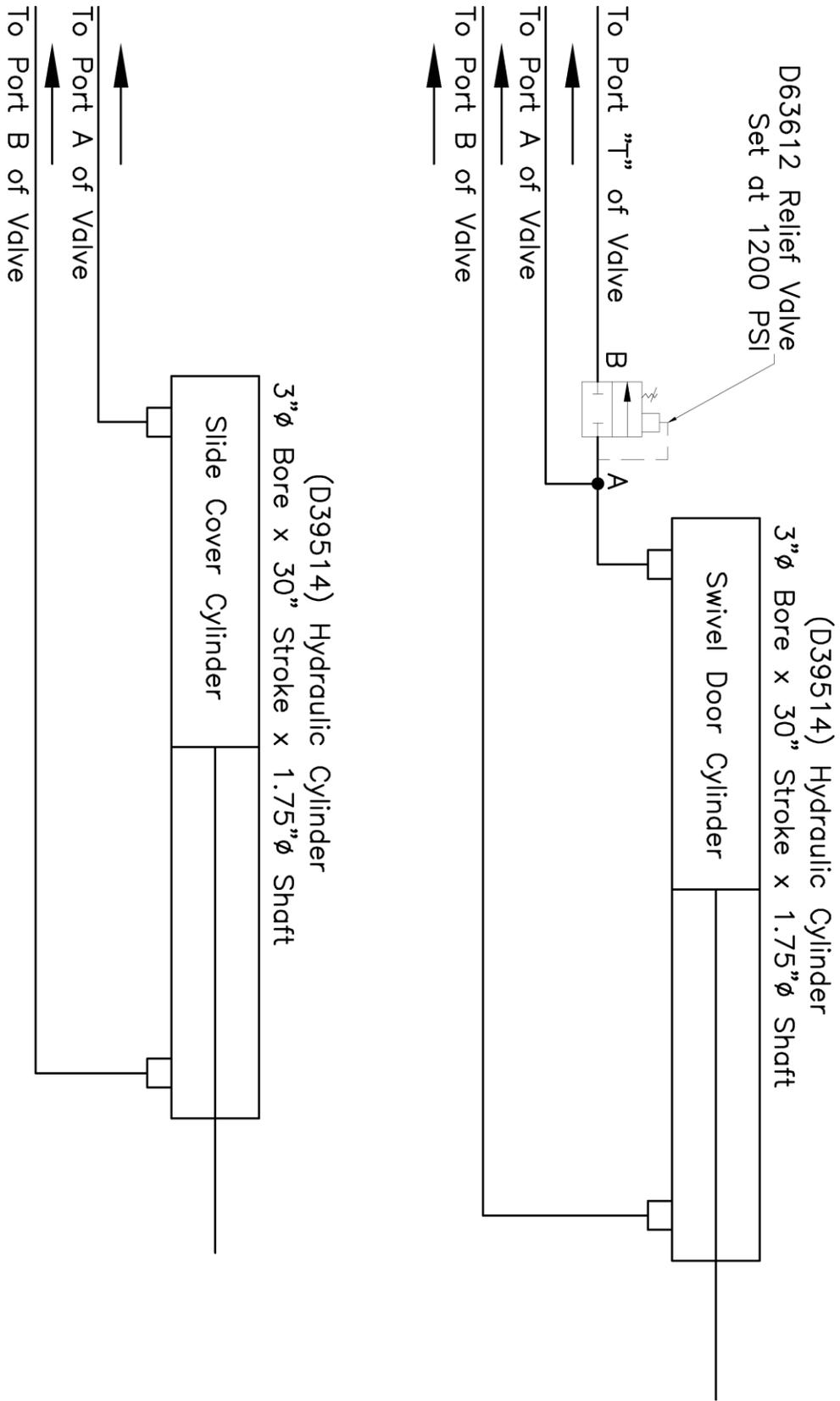
Battery powered DC units have a duty cycle of 2 minutes of active use every 10 minutes. That means 2 minutes on, 8 minutes off. The intention is for periodic operation, with some driving time between uses. Example of acceptable use: Servicing a park or trail, where the bins are spread out and the motor will have time to cool off in-between service points.

The more the motor is used, the hotter it becomes. Overheated motors can suffer from permanent burnout without warning and need to be replaced. To prevent this, our power packs come with a built-in circuit with a thermometer. When the motor reaches a certain temperature, the circuit will trip, and the motor will stop working. If this happens, the operator simply needs to wait for the motor to cool enough for the heat protection circuit to automatically reset, then they can continue operation normally.

These battery-operated units are not intended for continuous back-to-back action. (Example, 20 bins at a single stop with little or no break between bins). In situations where all the bins are at one location, the circuit protecting the motor from overheating will trip, causing a delay in operations. If your operations involve heavy back-to-back usage, Perkins recommends equipping your vehicle with a PTO system instead which can handle continuous use.



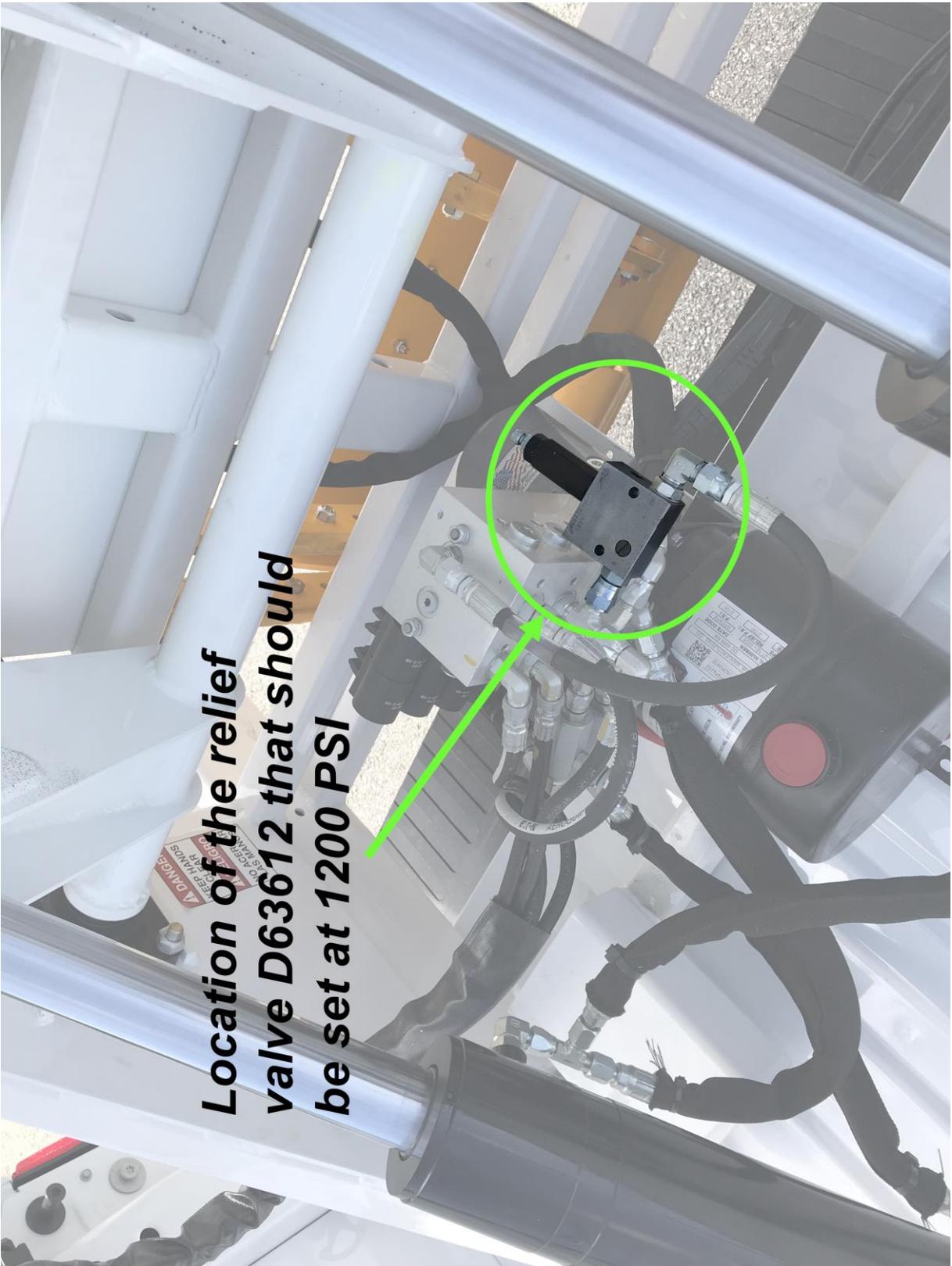
Hydraulic Schematic



800-882-5292

Revise: 4/26/22
Page 25 of 44





**Location of the relief
valve D63612 that should
be set at 1200 PSI**



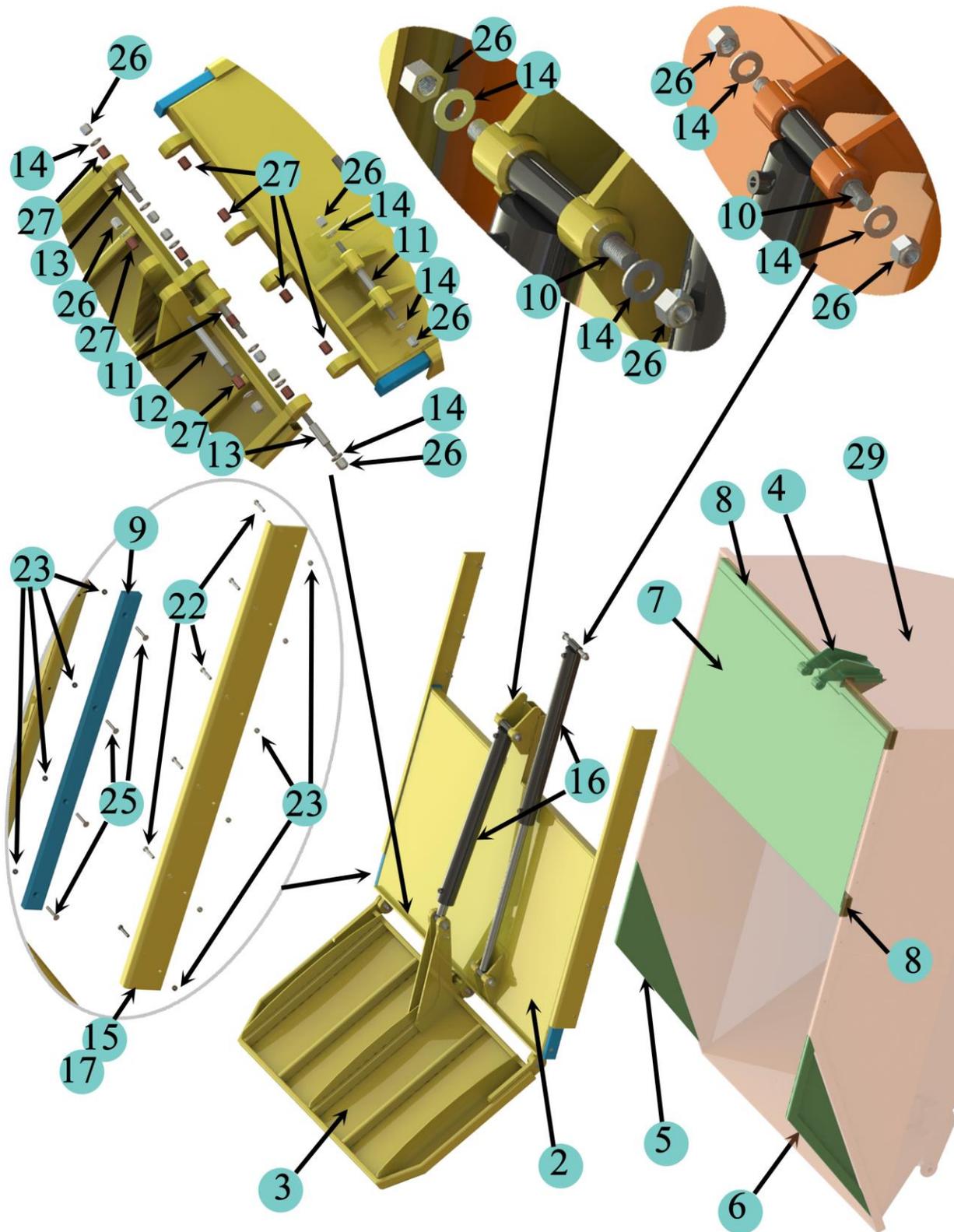
Hydraulic Power Trouble Shooting, Quick Reference Guide

Possible Cause	Not Building Pressure	Motor Not Running	Cylinder Won't Extend	Cylinder Won't Retract	Won't Hold Load	Excessive Heat From Unit	Aeration of Hydraulic Fluid	Reservoir Overflows	Cylinder Extends With Unit Not Operating	Struggles to Lift Load	Load Bounces When Cylinder Retracts	Start Solenoid Just Clicks-Motor Not Engaging	Won't Lift Load (DC Motor Under Load)	Won't Lift Load (DC Motor Not Under Load)	Won't Lower	Start Solenoid Stays On	Cylinder won't Retract Motor Under Load	
Low Battery Voltage																		
Poor Ground Condition																		
Check Hand Control																		
Debris in Load Holding Valve																		
Thermal Pressure Lock																		
Coil Not Energizing																		
Bad Seals in Cylinder																		
Loose Inlet																		
Packing on Cylinder Rod Worn Out																		
Hoses Connected Backwards																		
Pump Not Priming																		
Clogged Orifice																		
Rust In Motor																		
Bad Diode																		
Check For Additional Valving On or Connected to Cylinder																		
Directional Valve Not Shifting Properly																		
Bad Start Solenoid																		
Dirty Contacts in Hand Control																		

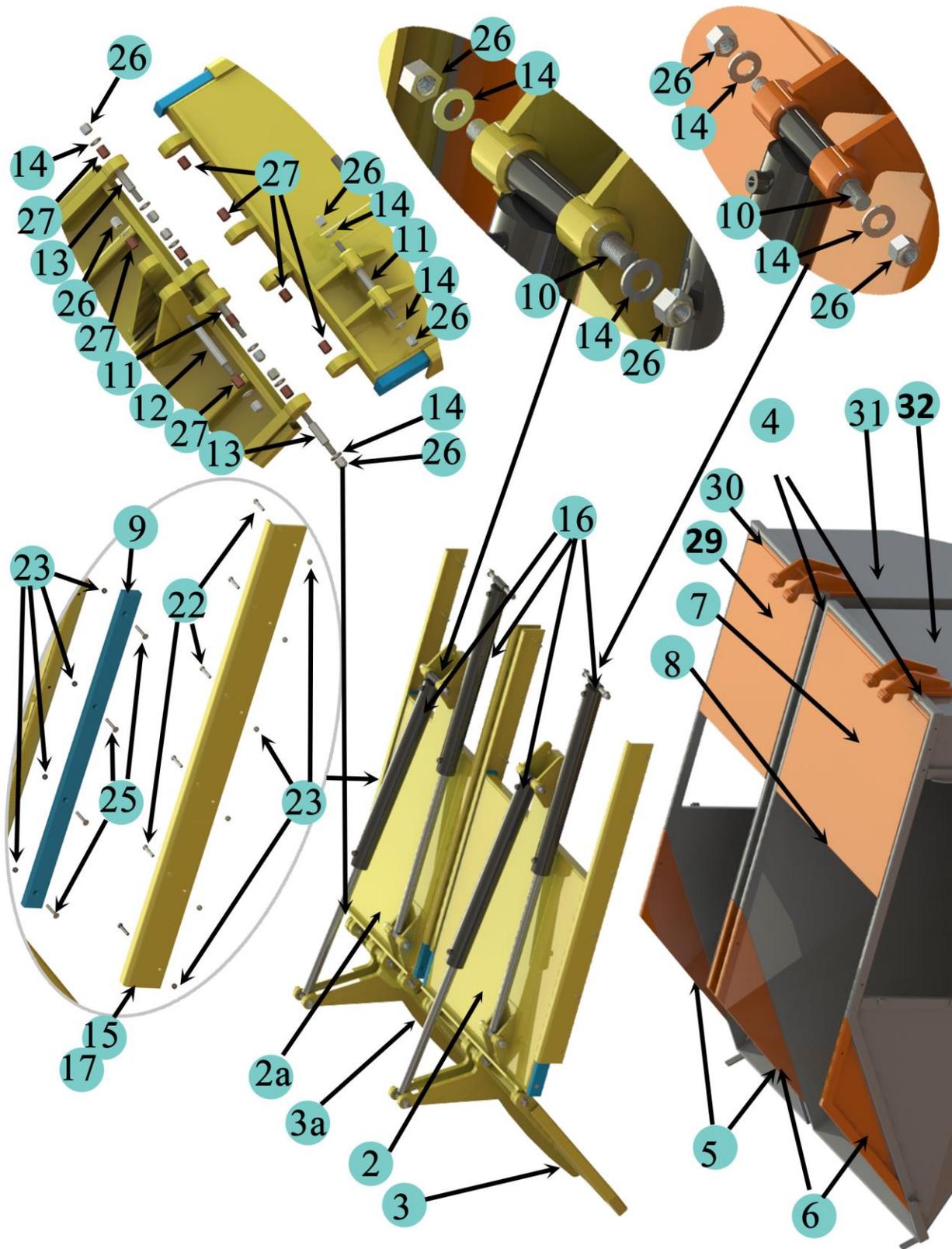
Quick Reference Guide covers the most common problems.
 (if we have missed a step please let us know)



Exploded View Full Body 6 & 8 yards



Exploded View 60/40 Split Body 6 & 8 yards



Parts List 6 Yards full Body (D34000)

Item#	Part#	Description	Qty.
1	A90720*	Sidewinder hose wrap	10
2	D34001	Sliding lid 6 yd. sweep lid	1
3	D34002	Cover 6 yd. Sweep Lid	1
4	D39725**	Rear Gusset Weldment	1
5	D34006_L**	Triangle assembly Left	1
6	D34006_R**	Triangle assembly Right	1
7	D34007**	Top panel	1
8	D34008**	Top Tube	2
9	D34015	Plastic Slider	2
10	D34031	Double Thread Stud 7 5/8"	2
11	D34032	Double Thread Stud 6 7/16"	2
12	D34033	Double Thread Stud 4 5/16"	1
13	D34034	Double Thread Stud 2 7/32"	2
14	D34035	Flat washer 3/4"	14
15	D34045	RH Side Rail Weldment	1
16	D39514	Hydraulic Cylinder	2
17	D39701	Sled Guide Rail	1
18	D61053*	HOSE #4 W/ #6 ENDS X 240"	1
19	D61053-186*	#4 Hose Assembly With #6 Ends X 186 Length	1
20	D61053-203*	#4 Hose Assembly With #6 Ends X 203 Length	1
21	D61053-226*	#4 Hose Assembly with #6 Ends x 226 Length	1
22	D62042	BOLT HHCS 3/8-16 X 2	12
23	D62080	LOCKNUT 3/8-16	20
24	D63105*	ELBOW 90 #6MT-#8MO	4
25	D72101	BOLT FHCS 3/8-16 X 2 1/2	8
26	D72132	LOCKNUT 3/4-10	14
27	D72147*	Hose Clamp #4	12
28	D72240	Oilite Brass Bushing	10
29		6 Yards Complete Body Bucket	1

* Not Shown in Exploded View

** Parts 4,5,6,7 & 8 are components of 29
when satellite is ordered with Sweep Lid already.



Parts List 6 Yards 50/50 Split Body (D34065)

Item#	Part#	Description	Qty.
1	A90720*	Sidewinder hose wrap	10
2	D34055	Sliding lid 6 yd. sweep lid	2
3	D34052	Cover 8 yd. Sweep Lid	2
4	D39725**	Rear Gusset Weldment	2
5	D34006_L**	LH Triangle assembly Left	2
6	D34006_R**	RH Triangle assembly Right	2
7	D34053**	Top panel	2
8	D34054**	Top Tube	4
9	D34015	Plastic Slider	4
10	D34031	Double Thread Stud 7 5/8"	4
11	D34032	Double Thread Stud 6 7/16"	4
12	D34033	Double Thread Stud 4 5/16"	2
13	D34034	Double Thread Stud 2 7/32"	4
14	D34035	Flat washer 3/4"	28
15	D34045	RH Side Rail Weldment	2
16	D39514	Hydraulic Cylinder	4
17	D39701	Sled Guide Rail	2
18	D61053*	HOSE #4 W/ #6 ENDS X 240"	2
19	D61053-186*	#4 Hose Assembly With #6 Ends X 186 Length	2
20	D61053-203*	#4 Hose Assembly With #6 Ends X 203 Length	2
21	D61053-226*	#4 Hose Assembly with #6 Ends x 226 Length	2
22	D62042	BOLT HHCS 3/8-16 X 2	24
23	D62080	LOCKNUT 3/8-16	40
24	D63105*	ELBOW 90 #6MT-#8MO	8
25	D72101	BOLT FHCS 3/8-16 X 2 1/2	16
26	D72132	LOCKNUT 3/4-10	28
27	D72147*	Hose Clamp #4	24
28	D72240	Oilite Brass Bushing	20
29		6 Yards 50/50 LH Body Bucket	1
30		6 Yards 50/50 RH Body Bucket	1

* Not Shown in Exploded View

** Parts 4,5,6,7 & 8 are components of the 29 & 30 when satellite is ordered with Sweep Lid already.



Parts List 8 Yards Full Body (D39715)

Item#	Part#	Description	Qty.
1	A90720*	Sidewinder hose wrap	10
2	D39705	Sliding lid 8 yd. sweep lid	1
3	D39710	Cover 8 yd. Sweep Lid	1
4	D39725**	Rear Gusset Weldment	1
5	D39778**	LH Triangle assembly Left	1
6	D39776**	RH Triangle assembly Right	1
7	D39709**	Top panel	1
8	D39706**	Top Tube	2
9	D34015	Plastic Slider	2
10	D34031	Double Thread Stud 7 5/8"	2
11	D34032	Double Thread Stud 6 7/16"	2
12	D34033	Double Thread Stud 4 5/16"	1
13	D34034	Double Thread Stud 2 7/32"	2
14	D34035	Flat washer 3/4"	14
15	D34045	RH Side Rail Weldment	1
16	D39514	Hydraulic Cylinder	2
17	D39701	Sled Guide Rail	1
18	D61053*	HOSE #4 W/ #6 ENDS X 240"	1
19	D61053-186*	#4 Hose Assembly With #6 Ends X 186 Length	1
20	D61053-203*	#4 Hose Assembly With #6 Ends X 203 Length	1
21	D61053-226*	#4 Hose Assembly with #6 Ends x 226 Length	1
22	D62042	BOLT HHCS 3/8-16 X 2	12
23	D62080	LOCKNUT 3/8-16	20
24	D63105*	ELBOW 90 #6MT-#8MO	4
25	D72101	BOLT FHCS 3/8-16 X 2 1/2	8
26	D72132	LOCKNUT 3/4-10	14
27	D72147*	Hose Clamp #4	12
28	D72240	Oilite Brass Bushing	10
29		8 Yards Complete Body Bucket	1

* Not Shown in Exploded View

** Parts 4,5,6,7 & 8 are components of 29
when satellite is ordered with Sweep Lid already.



Parts List 8 Yards 50/50 Split Body (D39730)

Item#	Part#	Description	Qty.
1	A90720*	Sidewinder hose wrap	10
2	D39752	Sliding lid 8 yd. sweep lid	2
3	D39748	Cover 8 yd. Sweep Lid	2
4	D39725**	Rear Gusset Weldment	2
5	D39778**	LH Triangle assembly Left	2
6	D39776**	RH Triangle assembly Right	2
7	D39747**	Top panel	2
8	D39745**	Top Tube	4
9	D34015	Plastic Slider	4
10	D34031	Double Thread Stud 7 5/8"	4
11	D34032	Double Thread Stud 6 7/16"	4
12	D34033	Double Thread Stud 4 5/16"	2
13	D34034	Double Thread Stud 2 7/32"	4
14	D34035	Flat washer 3/4"	28
15	D34045	RH Side Rail Weldment	2
16	D39514	Hydraulic Cylinder	4
17	D39701	Sled Guide Rail	2
18	D61053*	HOSE #4 W/ #6 ENDS X 240"	2
19	D61053-186*	#4 Hose Assembly With #6 Ends X 186 Length	2
20	D61053-203*	#4 Hose Assembly With #6 Ends X 203 Length	2
21	D61053-226*	#4 Hose Assembly with #6 Ends x 226 Length	2
22	D62042	BOLT HHCS 3/8-16 X 2	24
23	D62080	LOCKNUT 3/8-16	40
24	D63105*	ELBOW 90 #6MT-#8MO	8
25	D72101	BOLT FHCS 3/8-16 X 2 1/2	16
26	D72132	LOCKNUT 3/4-10	28
27	D72147*	Hose Clamp #4	24
28	D72240	Oilite Brass Bushing	20
29		8 Yards 50/50 LH Body Bucket	1
30		8 Yards 50/50 RH Body Bucket	1

* Not Shown in Exploded View

** Parts 4,5,6,7 & 8 are components of the 29 & 30
when satellite is ordered with Sweep Lid already.



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.

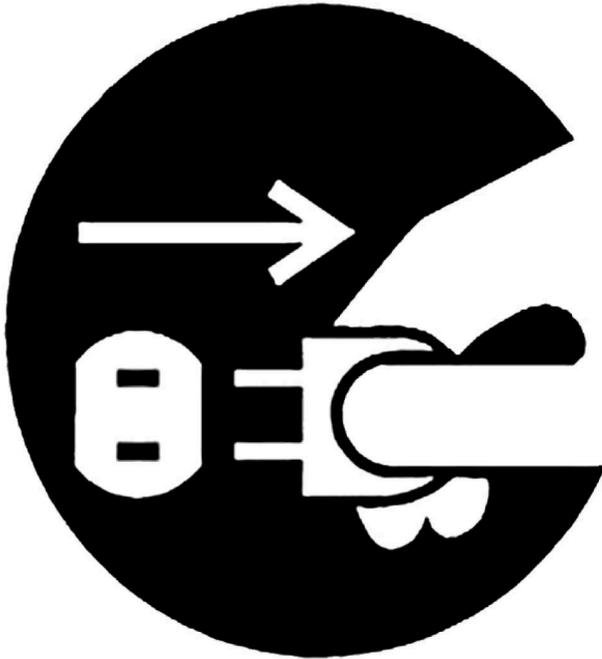
Warranty cannot be honored on lifters or individual pieces unless a serial number is provided. Since the tag is frequently lost, damaged, or painted over, it is a good idea to note the serial number in this manual at the time of installation.

At right is an example of the serial number plate. It will be stamped with a model number and serial number.

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

Revised:05/07/22

Page 72 of 77

<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.



Perkins Manufacturing Company
800-882-5292 www.perkinsmfg.com

©Clarion Safety Systems, LLC clarionsafety.com 17039

Reorder No. D72499



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

800-882-5292

Revised:05/07/22
Page 75 of 77

	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.



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.