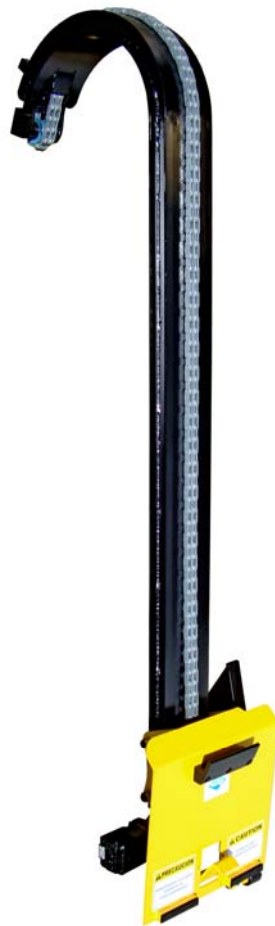




Installation & Operational Manual

Model AC300kit

Hydraulic Cane-Track Lifter



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 1 of 26

AC300kit Specifications

Cart Compatibility	ANSI Type B, US-Style two-bar carts having a bar to bar dimension of 14 ¾ - 15 ¼".
Typical Mounting Application	Side Mounted on open-top dump body
Tipper-Bar Compatible?	N/A
Flow Rate Requirement	10 gpm
Cycle Time	15 seconds (7.5 up and 7.5 down)
Recommended Pressure Setting*	1,500 psi at the pressure relief valve
Maximum System Pressure	3,000 psi
Weight Capacity**	400 lbs
Dump Angle	45 degrees from the horizon
Mounting Height (ground level to upper saddle)	32"
Approximate Unit Weight (not counting packaging)	375 lbs
Hydraulic Package	Tap-In kits are sold separately
Warranty	***

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

* Actual pressure required to lift a load can vary.

** 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

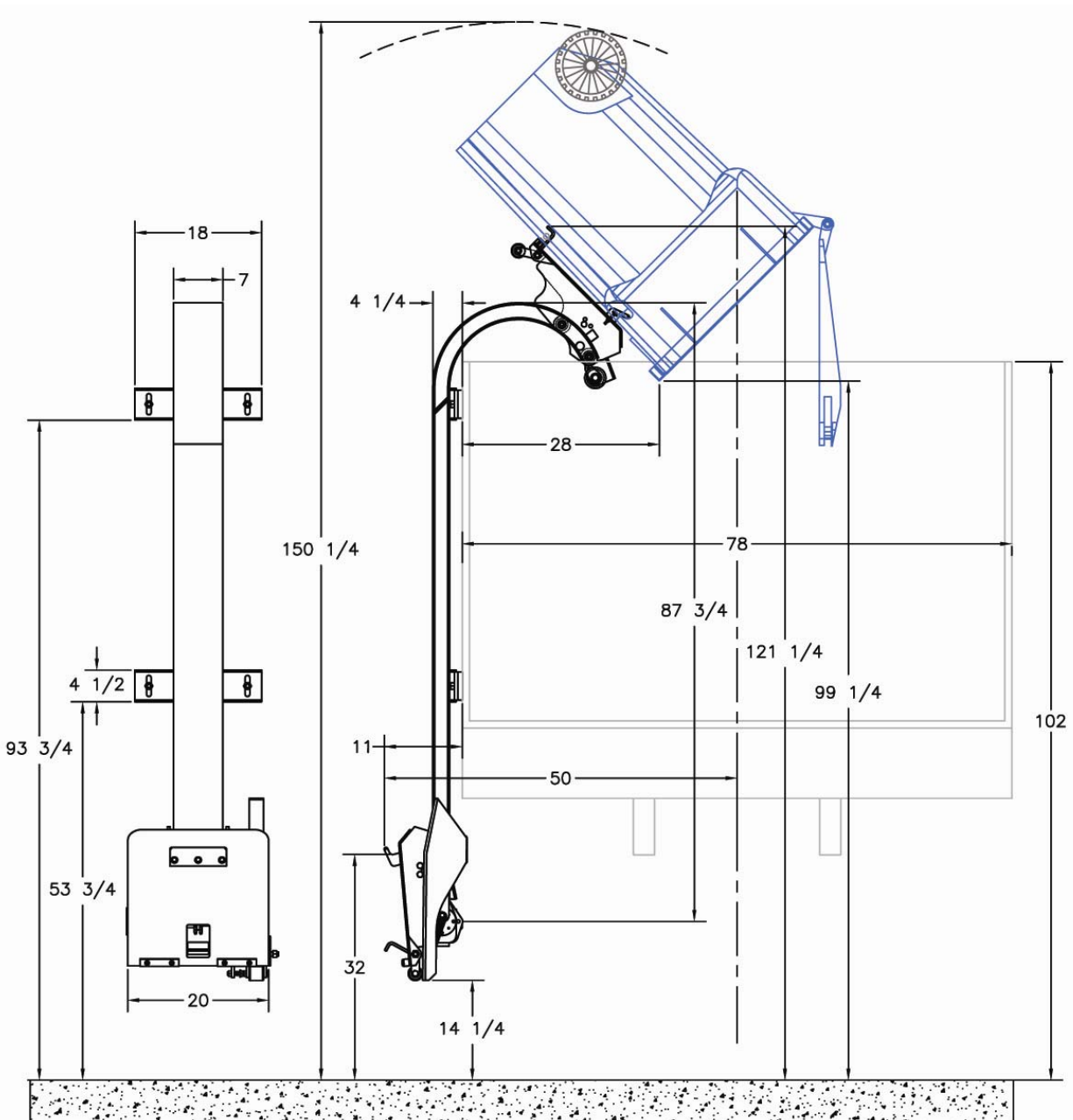


Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 2 of 26

Overall Dimensions



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



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 3 of 26

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)



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

The AC300kit is fully compatible with ANSI TYPE B carts only.

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



Adjustable Flow Control



Hand Valve



PO Check Valve



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.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 4 of 26

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.
- ✧ Cart lifters weigh, on average, between 185 to 300 lbs. Do not lift the lifter onto the mounting plate by hand. Always use proper lifting equipment.
- ✧ 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.
- ✧ The truck to which the lifter is to be installed should be empty of waste. Torching and welding can ignite the contents of the truck and cause a fire.
- ✧ 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.
- ✧ Always relocate lights that need to be moved due to the position of the cart lifter to a clear and unobstructed area clearly visible to drivers.
- ✧ All painting of the truck/lifter after installation is complete should be done with proper ventilation and per local regulations. Do not paint over caution and warning labels.
- ✧ 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 Tips

Do not mount the lifter to a refuse body which is not already mounted to a chassis. Chassis heights can vary and this will affect the final installed height of the cart lifter.

Tack weld only until all positions and clearances are verified to work well for your application.

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

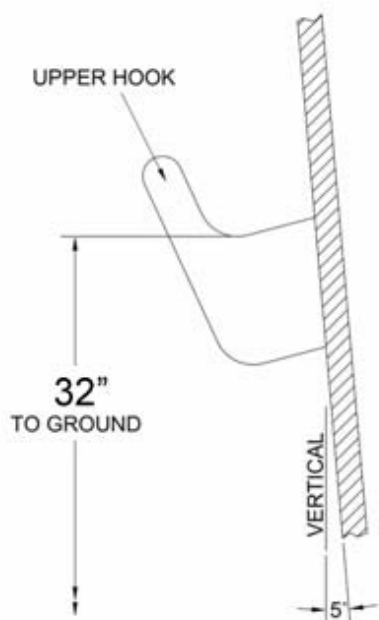
Mark Your Centerlines

Draw a centerline on the truck's body where the lifter is to be placed, making sure the centerline is vertical. Make sure the placement of the lifter in this location will offer structural support needed for the lifter's mounting plates. If there is not structural support, add steel channel and/or tube to reinforce the wall of the truck as needed.

Also double check that the placement of the lifter in this location will not interfere with any equipment the truck may have (swinging doors, tarps, storage boxes, fuel tanks, control lines, etc). Relocate the lifter or equipment as necessary.

In the event of double-install on opposite sides, it may be ideal to offset the position of the lifters so that should they be operated at the same time, the carts will not collide with each other at the top. Also, offsetting the position of the lifters helps distribute trash within the dump body for a more evenly dispersed load and increasing capacity.

Determine the Mounting Height of AC300kit



Upper hook mounting height

The mounting height is critical to the proper function of any cart lifter. The ideal location for the upper hook is 32" 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.

It is important that the body be mounted to a chassis, and the truck is empty and parked on a smooth and level surface when this mounting height is determined.

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.

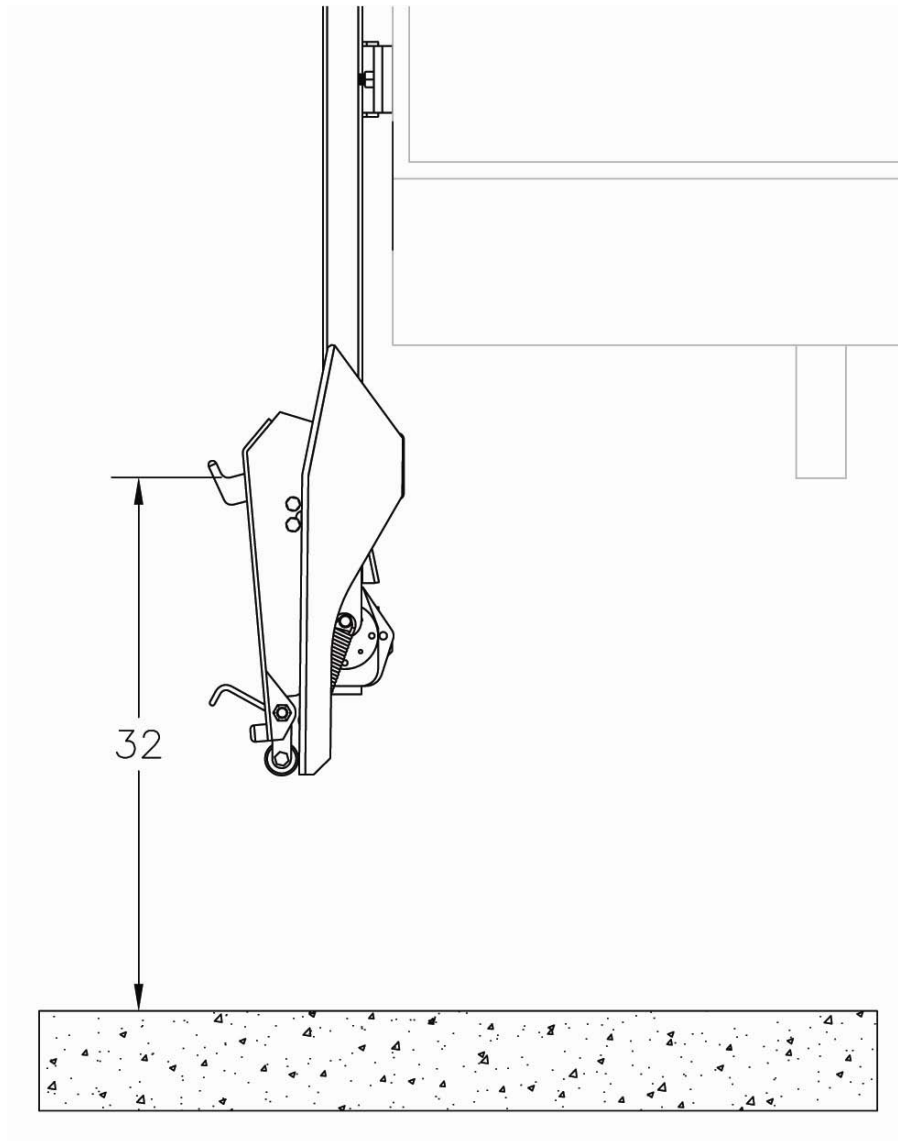


Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 6 of 26

Positioning the Mounting Plate



** The mounting plate should be positioned so that the upper saddle is 32" to the ground, as shown. The mounting plate itself should be vertical and level.*

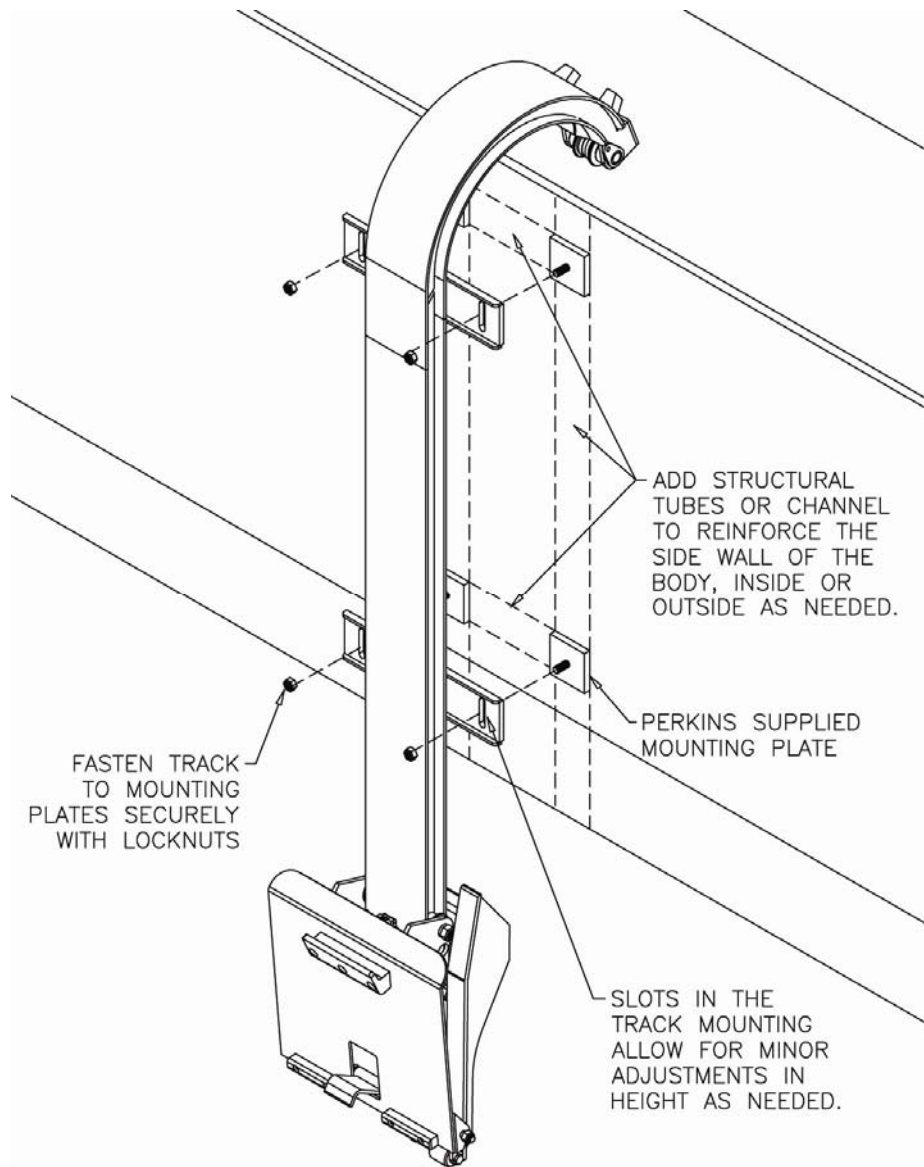


Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 7 of 26

Reinforce the Mounting Plate



The sidewall of a truck is not typically designed to accommodate lifters and their loads. It is necessary to add additional supporting structure, in the form of channel or tubing, so that the mounting plates are anchored on a rigidly fixed surface. Due to vehicle width restrictions, it may be necessary to reinforce this area from within the body of the truck.

Failure to fully support the mounting plate can lead to rapid premature failure of the cart lifter.

Dimensions shown above are an example only and will vary from truck to truck

After the cart lifter and supports are tack welded in place, move the cart lifter by hand up and down carefully, making sure there are no interferences. Double check the hook height to the ground. If everything appears satisfactory, the lifter's mounting plate and supports may be welded fully.

The mechanical portion of the installation is complete.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 8 of 26

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.

Non-Perkins Controls

Some customers with new trucks may choose to use hydraulic controls provided by the OEM. As long as the GPM and pressure settings used match the specifications required, then the lifter should operate fine. Perkins cart lifters do not require special Perkins valves to operate.

In other cases, a Perkins cart lifter may be replacing a competitive lifter for which controls are already installed. Again, Perkins cart lifters should work just fine with competitive equipment, as long as the GPM and pressure settings are adjusted within the specified ranges.

Lifter Speed

The cycle time of the lifter is very important for safe operation. Perkins suggests a complete cycle time of 15 seconds (7.5 seconds up and 7.5 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.

The speed of the cart lifter is determined by the rate of oil (gpm) going to the unit. The AC300kit lifter will require approximately 10 gpm in order to meet this speed. A gauge is recommended but not needed to determine proper lifter speed. Counting the cycle time using a stop watch is adequate to determine proper flow rate. Running a lifter too fast will void the warranty.

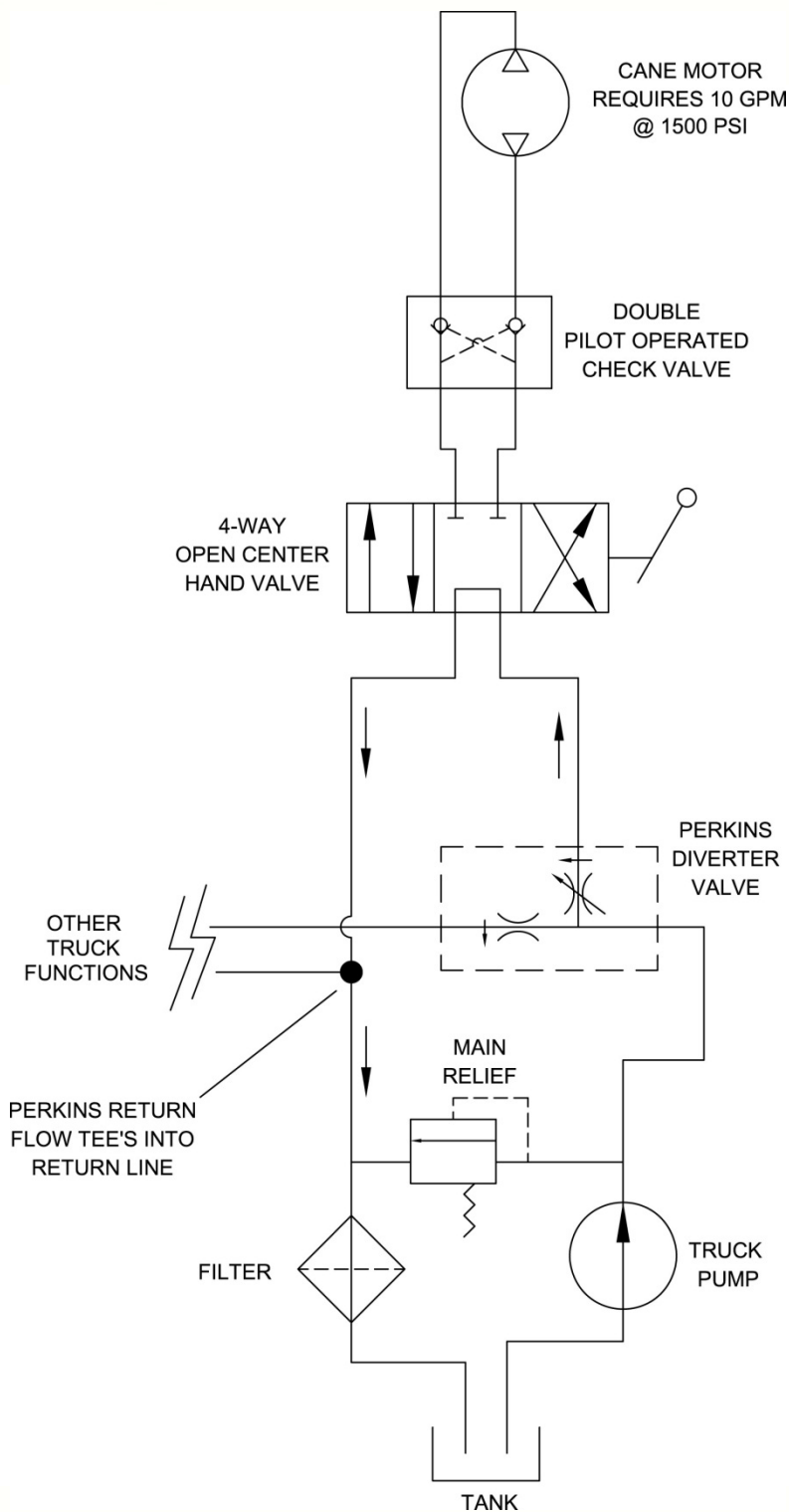
Weight Capacity

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 AC300kit requires 1500 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.



Manufacturing Company

Perkins Single Lifter Hydraulics Schematic



Perkins Manufacturing Company

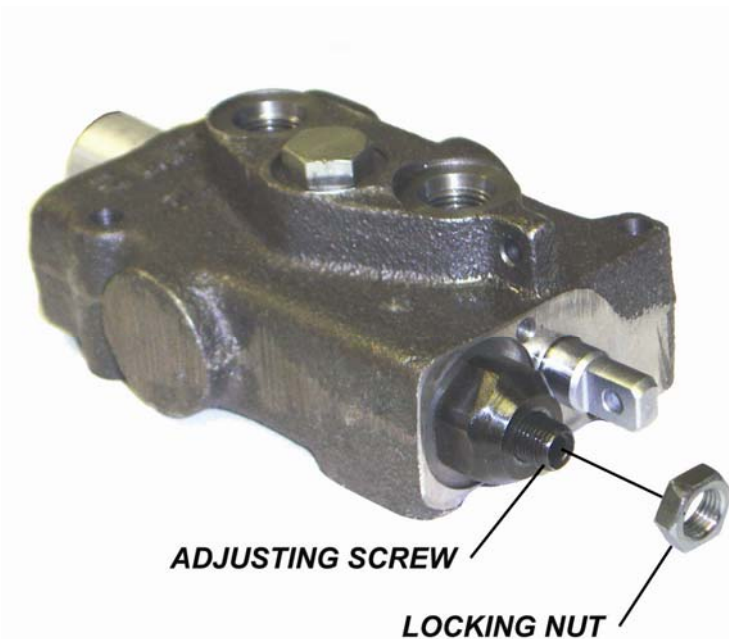
737 Oakridge Drive Romeoville, IL 60446

(708) 482-9500 Fax: (708) 354-5878

Email: tuckaway@perkinsmfg.com

Adjusting the Perkins Hydraulics

Adjusting the Lifting Capacity



Note: The setting for the D6080-27k is approximately 1650 psi to lift 400 lbs.

Hand Valve: D63228 (valve only)

This valve directs the flow to the lifter to make it move up or down. It features a “deadman” stop. Release the handle and the lifter should stop moving.

The valve has a built-in pressure relief valve. To increase the lifting capacity, loosen the locking nut and turn the adjusting screw clockwise. It is recommended to use a pressure gauge to achieve the right setting. Raise the lifter until it stops and continue to pull the handle. Note the pressure on the gauge and adjust the screw accordingly.

When the pressure is correct, retighten the locking nut.

Replacement Parts:

D63127 – Seal Kit

D63192 – Spring Kit

D63672 – Cartridge Kit

Troubleshooting the Hand Valve

This valve does not affect lifter speed! Only adjust this valve if the lifter won't pick-up the desired weight, or if a chattering noise is heard.

Don't be fooled! Containers full of water, concrete, rocks, dirt, wet grass or other materials can easily weigh far more than the capacity of the lifter. Just because the lifter doesn't pick up that heavy cart, doesn't mean the lifter needs adjustment! If there is doubt, try weighing the container in question.

Maintaining the Hand Valve

This valve requires no periodic maintenance. If a problem is traced to the hand valve, turn the system off and remove the cartridge. Clean and inspect the cartridge. Make sure the handle returns to center on it's own. If it doesn't, it may need a spring kit.

There are usually multiple relief valves within the same system. They must be set at least 100 psi apart from each other or they will “chatter”. Adjusting one valve to be set differently than another should eliminate the problem. Example: Pump relief valve 2000 psi, packer relief valve 1900 psi, lifter relief valve 1650 psi.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 10 of 26

Maintaining the PO Check Valve

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.



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.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 11 of 26

Operating the Lifter

Operating Instructions

The recommended cycle is 7.5 seconds to travel up and 7.5 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: Make sure the lifter is all the way down, to facilitate easy cart engagement.

Step 2: 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 it's motion. (It is not necessary to lift the cart onto the upper saddle)

Step 3: Look and make sure no one is in the area of the lifter or cart, then operate the hand valve by pulling up on the handle. The lifter will roll up the track and engage the cart and at the top of the track, raise it to 45 degrees above the horizon.

Safety Note: The hand valve operates like a deadman switch. Releasing the handle at any time will stop motion of the lifter. Normal operation may be resumed by operating the handle again.

Safety Note: Regular lifter operators sometimes shake the cart to help discharge the garbage. Being that on the AC300kit, the cart is very high overhead of the operator. Shaking the cart could be hazardous, should it break loose, therefore, shaking the cart using the AC300kit is not recommended and the operator does this at their own risk.

Step 4: Step 5: 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 6: Remove the empty cart and repeat the process as needed.



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 TYPE B 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 a commercial container, 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 and/or adjusting the relief valve to pick up weights heavier than the recommended load can lead to damage or injury and will void the warranty.

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. Lifters have pinch points which can cause serious injury. Stay clear at all times.

The AC300kit can hang low to the ground at certain points of their lift cycle. Likewise, if left in the up position while driving, it will be the highest point of the truck and subject to striking branches or other structures. It is the operator's responsibility to move the lifter to a safe position while going down the road. Damage caused by striking foreign objects is not covered by warranty.



Adjusting the Lifter

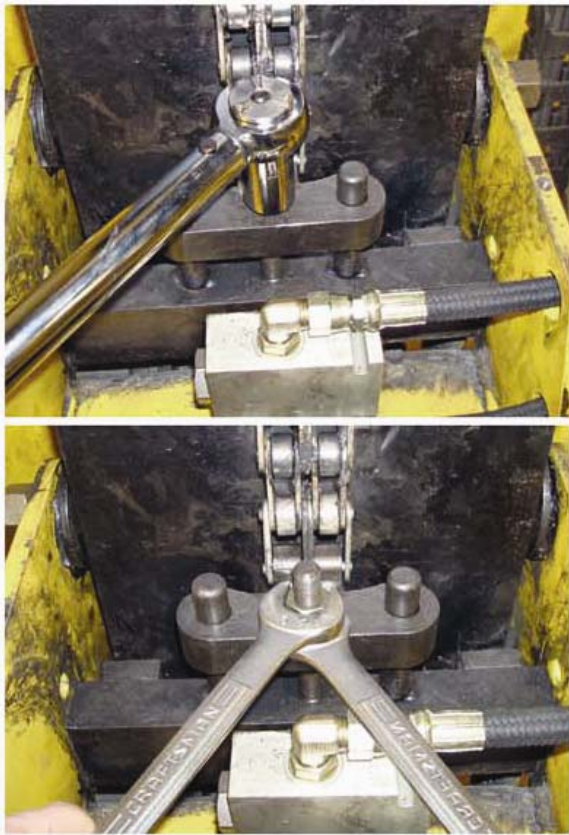
Checking the chain tension

Always check the tension of the chain from UNDER the carriage, not above, as the chain tension above the carriage will always remain constant from the weight of the carriage hanging.

Raise the carriage a few feet off the ground so that the chain under the carriage is accessible by hand. With the machine stopped, wiggle the chain back and forth. A good tension on the chain should allow the chain to wiggle about $\frac{1}{2}$ "- $\frac{3}{4}$ " back and forth.



Adjust the Chain tension



To adjust the chain tension use a socket wrench to tighten or loosen as necessary the center nut on the chain tension, as shown at left.

Check the chain tension periodically as you make adjustments, so as to find the best tension.

NOTE ON CHAIN TENSION: Loose chain is not necessarily harmful, it just looks unsightly. However, overly tightened chain leads to premature wear and stretching of the chain. **DO NOT** over-tighten chain. The chain hanging under the carriage should always have a bit of "slop". Better to be loose than too tight.

Lock the nut's position in place when complete using the secondary jam nut and two wrenches.



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 14 of 26

Other Adjustments

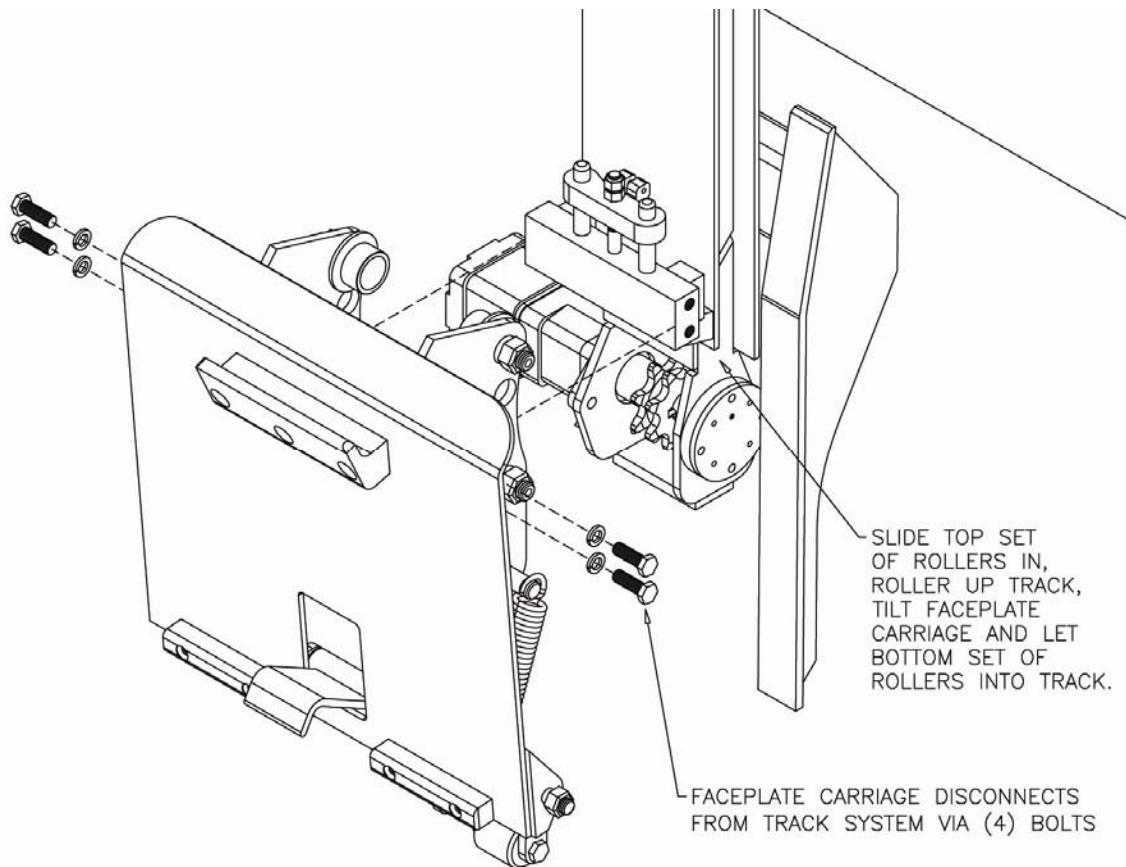
Make sure all hardware is firmly tightened. If any hardware loosens they may be affixed with Blue Loc-tite type 242 thread locker.

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.

Reassembling the Faceplate to the Track

The faceplate carriage may be disengaged from the track by removing the (4) bolts which secure it to the chain tensioner. Once the bolts are removed, the carriage will ride freely up and down the track. Make sure the carriage is properly supported at this time, or it can fall rapidly.

Guide the faceplate assembly out of the track one set of rollers at a time. After the lower set comes out of the track, tilt the faceplate forward and continue lowering until the top set of rollers come off the track. Reverse this process to reattach the faceplate carriage assembly. See illustration below.



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.

In rare instances, the flow may be too low. This would also be noticeable if the lifter was also very slow.

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.

The hand valve relief 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 adjusting the hand valve's relief does not bring the pressure up to where it should be, then the truck's relief pressure setting may be set too low. Try adjusting the truck's relief valve (see manufacturer's instructions on how to do this for your vehicle)

In cases of older equipment, the hand valve may be in need of replacement or repair.

If all pressures are set properly and the hand valve works, then the motor may have internal leakage. It may be necessary to replace or rebuild the motor and or seals within the motor.

Lifter operates slowly

Check the flow adjustment. Use a flow meter to make sure each lifter receives approximately 10 gpm. Adjust flow as needed following instructions in the manual.

Engine idle may be too low to provide adequate flow. Following the manufacturer's instructions, adjust the engine idle. Remember increasing engine idle will increase fuel consumption.

The hand valve may be faulty. Check, clean and/or replace as needed.

The truck's pump may be faulty, unable to deliver the desired flow. Contact your truck manufacturer.

In rare instances, debris within the oil may be clogging the diverter valve. Check and clean the valve as needed.



Lifter operates too fast

Check diverter valve adjustment screw. Adjust in to lower the flow delivered to the lifters.

Engine idle speed may be too high. Adjust per the manufacturer instructions.

Hand valve lever sticks, does not return to center

A worn or broken spring on the spool will cause the handle to fail to return to center. This is dangerous, since this means the deadman stop feature is not working. Check and replace the spring with part number D63192.

If the spring is not the problem, check and clean the hand valve of any rust/corrosion and debris in or around the spool or the external parts.

On new installations, this is the result of having the pressure and tank lines reversed. Check and make sure that the pressure line goes to the "IN" port and the tank line goes to the "OUT" port.

Hand valve is leaking oil

This is typically caused by worn or damaged seals. Install new seals with part number D63217

In some cases, the spool itself is worn. If so, replace the hand valve.

Unable to achieve 1500 psi at the hand valve

The truck's pressure setting may be too low. Adjust the truck pressure according to the manufacturer's instructions.

If pressure cannot be increased further, it may be necessary to install a speed up switch which will rev the engine higher during peak need to deliver the desired pressure. Note that speed up switches will increase fuel consumption.

Unable to achieve over 1400 psi

The truck pressure is too low. If adjustments do not help, the pump may be bad or underpowered. Contact your truck manufacturer.



Lifter breaks the lower bars of carts

First, make sure there is no damage to the lifter. Replace damaged components 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 15 seconds. Make sure the pressure is set no higher than 1500 psi.

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

Lifter drops carts

Check the lower latch and make sure it rotates smoothly, that the drive roller behind the plate properly contacts and rolls against the strike plate to the right of the track, and that the spring has not been overstretched or missing.

Make sure the upper hook is not damaged.

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.



Manufacturing Company

CHAIN TENSION GUIDE FOR ALL CANES

Chain tension should always be checked when there is no load on the carriage.

The carriage should be moved to the top of the arc as shown in the diagram.

Stop all motion to the cane, turn off hydraulics for added safety.

Use your hand to check play in chain. Move the chain back and forward. The chain may sway about an inch when adjusted properly.

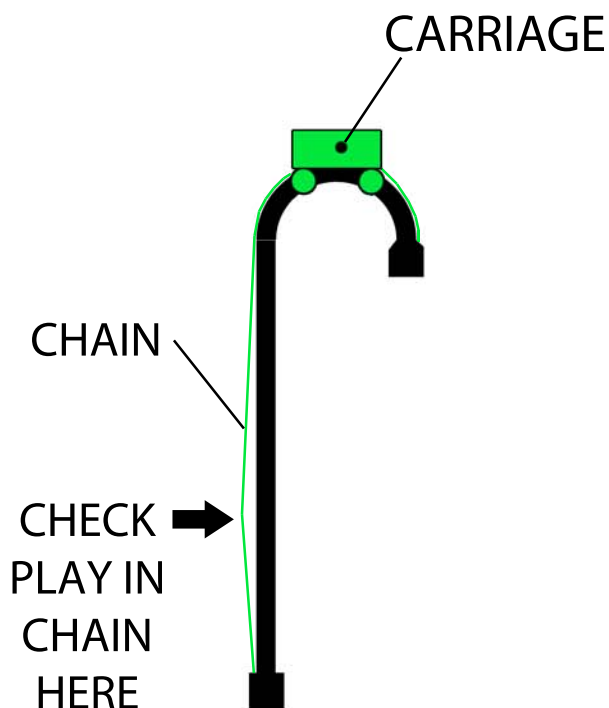
If you have extra play in the chain, tighten the chain using the tensioner.

DO NOT OVERTIGHTEN THE CHAIN. Being a little slack will not harm the chain. More slack is preferred to being too tight.

Chain which is too tight will wear prematurely and become over-stretched.

Once a chain is damaged it must be replaced entirely. Do not repair or weld chain, do not replace portions at a time.

Mark the tensioner adjustment point with a paint marker, to indicate in the future if the adjustment has worked it's way loose. Use double-nuts on the tensioner to keep the adjustment from loosening.



! IMPORTANT !

**DO NOT OVERTIGHTEN CHAIN
SOME SLACK WILL NOT
HARM CHAIN. EXCESSIVELY
TIGHTENED CHAIN WILL
BE DAMAGED.**

**WHEN DAMAGED, REPLACE
ENTIRE CHAIN. DO NOT REPAIR
OR REPLACE PORTIONS.**

**CHECK CHAIN TENSION WITH
CARRIAGE EMPTY.**

**STOP THE MACHINE AND WEAR
APPROPRIATE SAFETY GEAR.**

Perkins Manufacturing Company

737 Oakridge Drive Romeoville, IL 60446

(708) 482-9500 Fax: (708) 354-5878

Email: tuckaway@perkinsmfg.com

Chain Maintenance Addendum

For outdoor applications, it is necessary to lubricate the roller chain once per week.

For indoor applications, it is necessary to lubricate the roller chain once per month.

Lubrication may be performed via aerosol, spray, or brush. The grease used should be a penetrating type that can get into the rollers and crevices of the chain. Move the carriage up and down to be able to lubricate both front and back sections of the chain as well as hidden, inaccessible portions of chain.



When a chain is damaged, the entire chain should be replaced. It is not recommended to repair sections or portions of chain. This can lead to additional failures, which can be hazardous.

When checking the tension of the chain, follow the chain tensioning procedure in the manual. Do not over-tighten chain. Some slack hanging under the carriage is a necessary part of operation.



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

800-882-5292

Revised: 11/14/14
Grease Addendum

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.

Warranty coverage does not apply to collisions, operator errors or neglect. Warranty does not cover shipping costs, labor to replace parts, downtime, etc. Further details can be found on the warranty page.

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

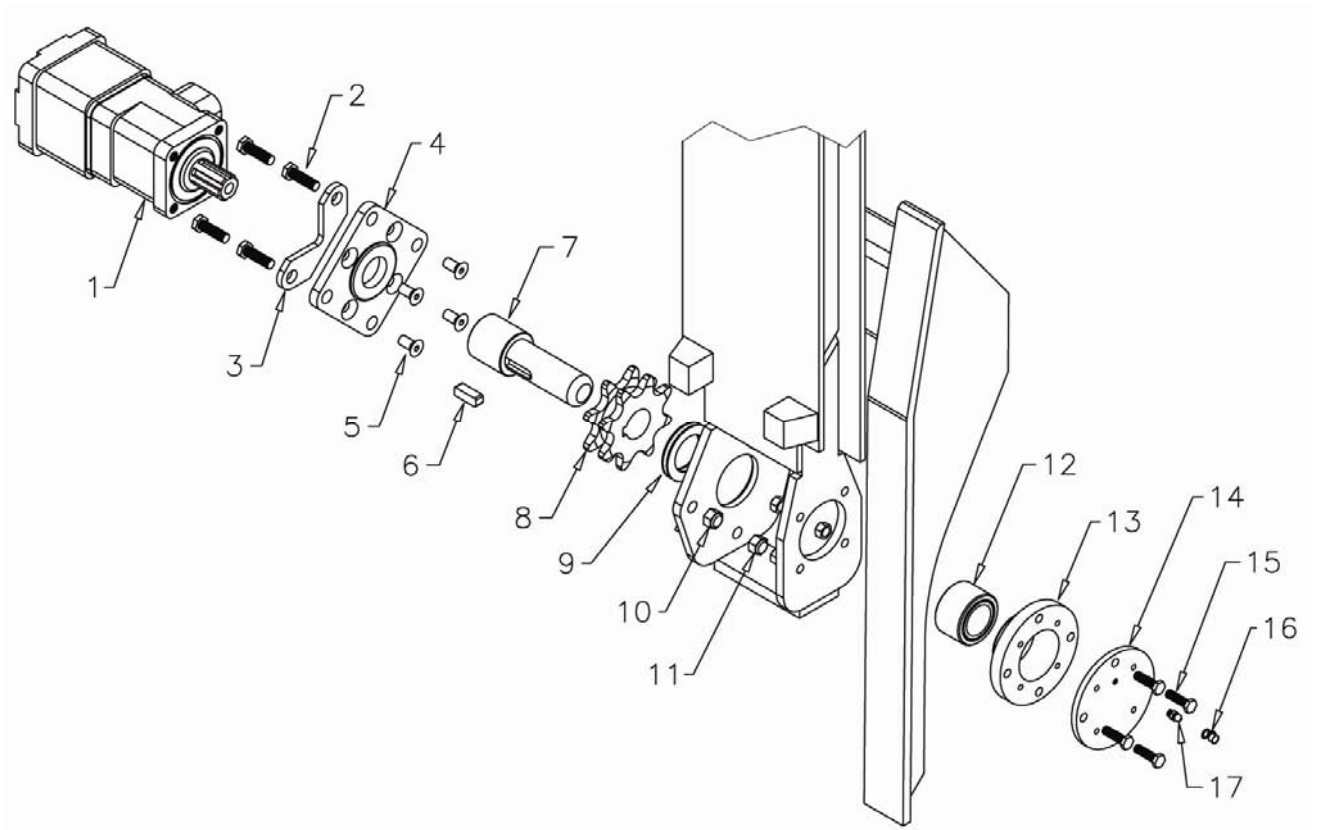


Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 20 of 26

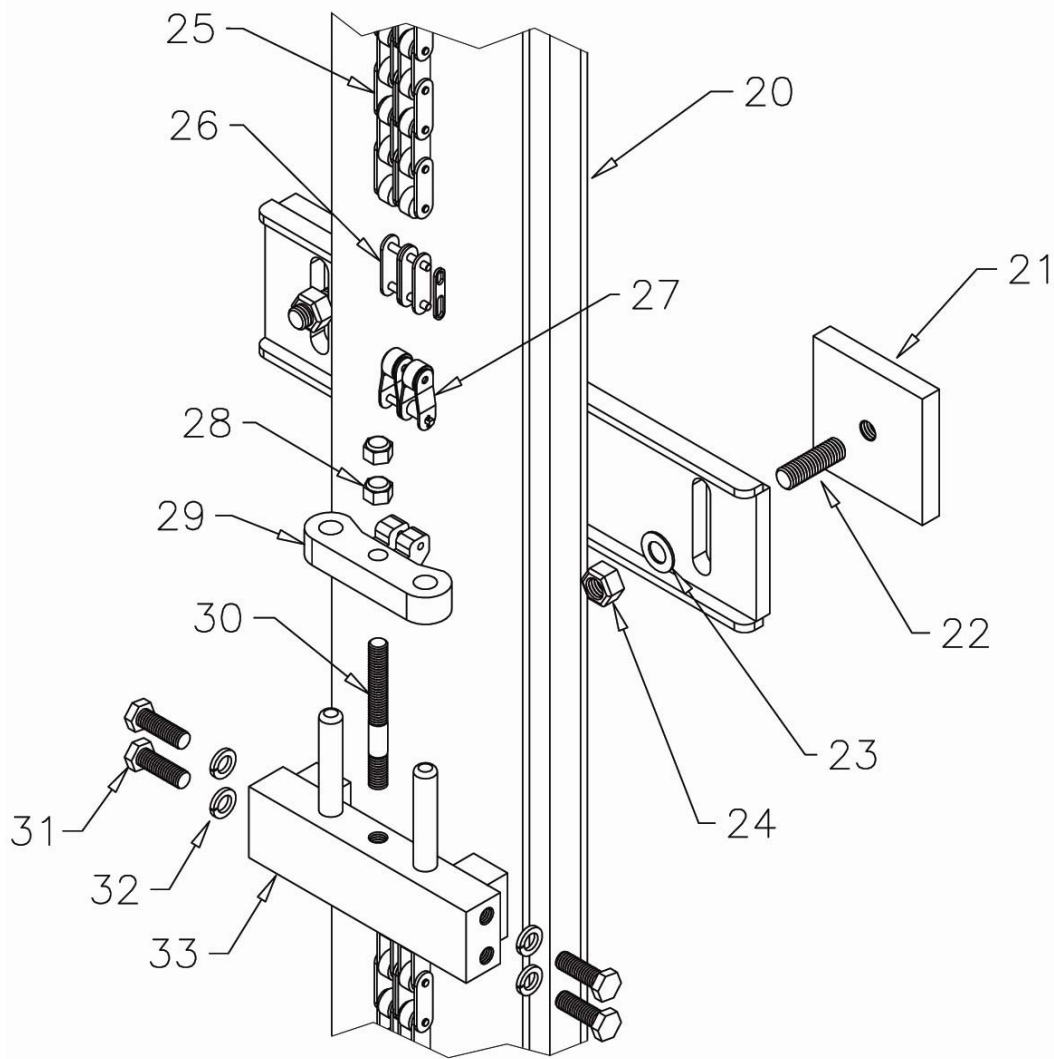
Exploded Parts View – Lower Track Area



1	CC3002	Motor	1
2	CC3300	Bolt HHCS ½-13 X 1 1/2	4
3	CC3196	Anti-Spin Plate	1
4	CC3144	Motor Adapter Plate	1
5	D72005	Bolt FHCS 3/8-16 x 1	4
6	CC3016	3/8 Key	1
7	ODL454	Drive Shaft	1
8	CC3017	Keyed Dual Drive Sprocket	1
9	D62459	Spacer Washer	7
10	CC3313	LockNut ½-13	4
11	CC3311	LockNut 5/16-18	4
12	CC3067	Bearing	1
13	CC3186	Bearing Housing (includes bearing CC3067)	1
14	CC3185	Bearing Cover Plate	1
15	CC3309	Bolt HHCS 5/16-18 X 1 3/4	4
16	D63029	Plastic Zerk Cap	1
17	Z102	Grease Zerk	1



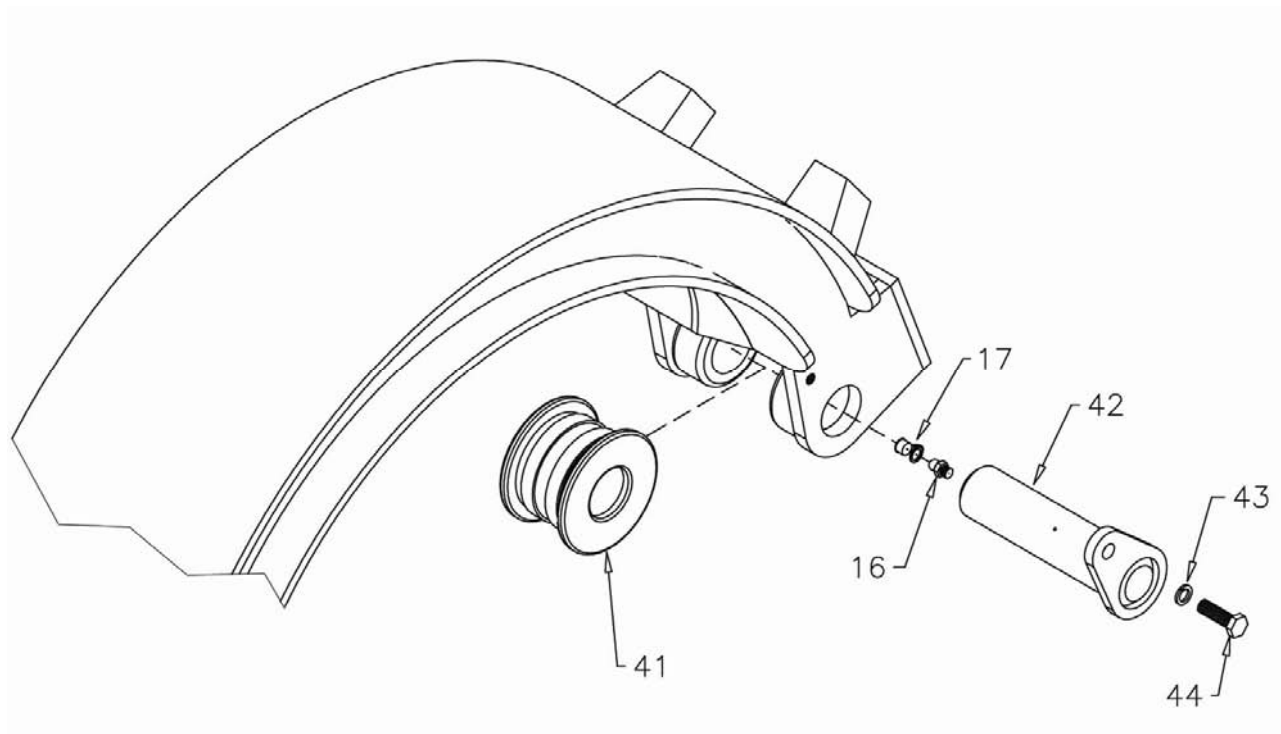
Exploded Parts View – Chain Retention Area



20	AC3001	Cane-Track Weldment	1
21	AC3004	Mounting Plate	4
22	D62448	Stud 5/8-11 x 2	4
23	D62109	Flatwasher 5/8	4
24	D62001	Locknut 5/8-11	4
25	CC3098	Dual Roller Chain	1
26	CC3187	Master Chain Link	1
27	CC3188	Offset Chain Link	1
28	D62009	Jam Nut	2
29	CC3173	Chain Tensioner	1
30	CC3155	Threaded Rod	1
31	CC3300	Bolt HHCS ½-13 x 1 1/2	4
32	CC3318	Split Lockwasher 1/2	4
33	ODL451	Carriage Mounting Block Weldment	1



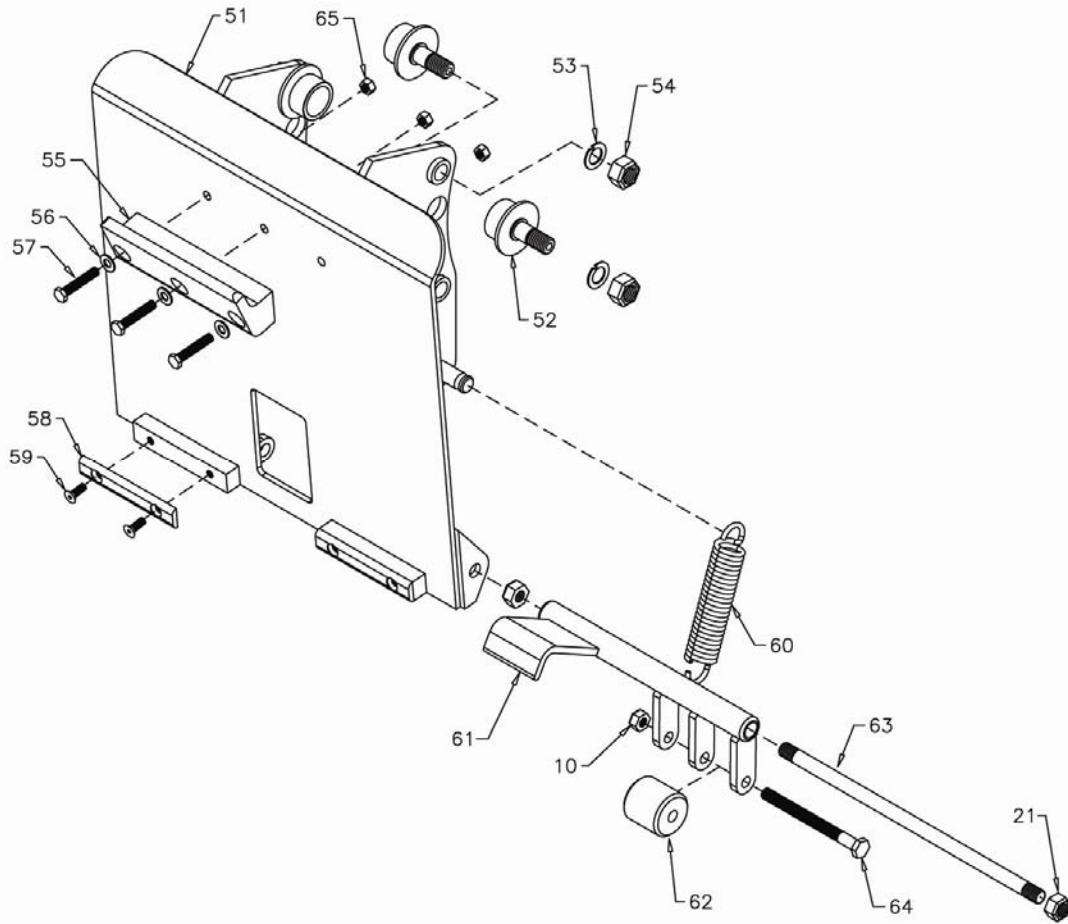
Exploded Parts View – Upper Track Assembly



16	Z102	Grease Zerk	1
17	D63029	Plastic Zerk Cap	1
41	CC3206	Upper Plastic Idler Roller	1
42	ODL452	Upper Pivot Pin	1
43	D62053	Split Lockwasher 5/16-18	1
44	D62046	Bolt HHCS 5/16-18 x 1	1



Exploded Parts View – Faceplate Carriage Assembly



10	CC3313	Locknut ½-13	1
21	D62001	Locknut 5/8-11	2
51	AC3002	Faceplate Weldment	1
52	CC3012	CAM Roller	4
53	D72014	Split Lockwasher 3/4	4
54	CC3314	Locknut ¾-16	4
55	D65255P	UHMW Plastic Upper Saddle	1
56	D62060	Flatwasher 13/16 OD X 3/8 ID	3
57	D62085	Bolt HHCS 3/8-16 X 1 3/4	3
58	D78834	Plastic Lower Bumper	2
59	D72029	Bolt FHCS 5/16-18 X ¾	4
60	D72073	Extension Spring	1
61	AC3003	Lower Latch Weldment	1
62	D69226A	UHMW Latch Guide Roller	1
63	D72123	Threaded Latch Pivot Rod	1
64	D62031	Bolt HHCS ½-13X 6	1
65	CC3312	Locknut 3/8-16	3



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 24 of 26

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 requires these labels to be in clear sight on the machine at all times. Responsibility to maintain proper caution and warning labels is the responsibility of the end-user.

Large Safety Label # D62474

Small English Label # D72114

Small Spanish Label # D72115

DO NOT PAINT OVER THIS LABEL / NO PINTAR ENCIMA DE ESTA ETIQUETA

THIS EQUIPMENT IS RATED FOR 3,000 PSI MAX. RECOMMENDED PRESSURE SETTINGS CAN BE FOUND IN THE INSTRUCTION MANUAL.

400 LB MAX LOAD RATING

EL EQUIP TIENE UNA CAPACIDAD NOMINAL MAXIMA DE 3000 PSI PARA SABER CUAL ES LA REGULACION DE PRESION RECOMENDADA, CONSULTE EL MANUAL DE INSTRUCCIONES.

CAPACIDAD DE CARGA MAXIMA 400 LB

CAUTION

STAY CLEAR DURING OPERATION

PRECAUCION

MANTENASE ALEJADO CUANDO ESTA EN FUNCIONAMIENTO

NOTE

RUNNING THE LIFTER TOO FAST, OVERLOADING THE LIFTER, COLLISIONS WITH THE LIFTER, MODIFYING THE LIFTER, OR NEGLECTING TO MAINTAIN THE LIFTER

VOIDS THE WARRANTY

© 2008 PERKINS MFG. CO. 708-482-9500
WWW.PERKINSMFG.COM

ATTENTION

TO MAINTAIN WARRANTY ON DUMPER:
LUBRICATE WEEKLY
OPERATE IN AN 6-8 SEC. CYCLE.

CAUTION

STAND CLEAR WHILE OPERATING
NEVER OPERATE DUMPER TO FULL UP POSITION
WHILE BLADE IS IN DOWN MOTION.

CALL (800) 882-5292 PERKINS MFG. ROMEOVILLE, IL. PART # D72114

ATENCION

PARA MANTENER LA GARANTIA DE EL LEVANTADOR:
LUBRIQUE SEMANALMENTE
OPERE ENTRE 6-8 SEG. POR CYCLO

PRECAUCION

MANTENGASE ALEJADO MIENTRAS ESTA EN
FUNCIONAMIENTO NUNCA OPERE EL LEVANTADOR
HACIA ARRIBA CUANDO LA PLACA EMPACADORA
ESTA ABAJO Ó BAJANDO

CALL (708) 482-9500 PERKINS MFG. ROMEOVILLE, IL. PART # D72115



Perkins Manufacturing Company
Creators of the TuckAway® Cart Lifter

800-882-5292
www.perkinsmfg.com

Revised: 09/26/11
Page 25 of 26



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.