

Receiving Instructions

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE: The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

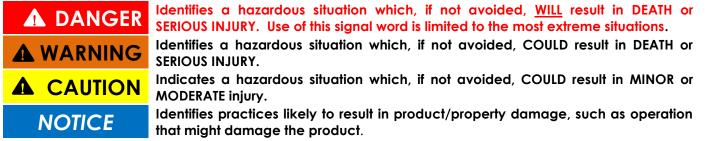
Technical Service & Replacement Parts

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at https://www.vestil.com/page-parts-request.php.

Electronic copies of Instruction Manuals			
Additional copies of this instruction manual may be downloaded	from		
https://www.vestil.com/page-manuals.php.			
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SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely cause property damage. The following are signal words used in this manual and their definitions.



SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products. Material handling is dangerous and no manual can address every conceivable risk. The end-user must exercise sound judgment at all times. Acquire a copy of the latest version of ANSI B56.1 from <u>www.ITSDF.org</u>. Apply all portions of Part II "For the User" that are relevant to front end attachments. The following recommendations complement the relevant provisions of B56.1.

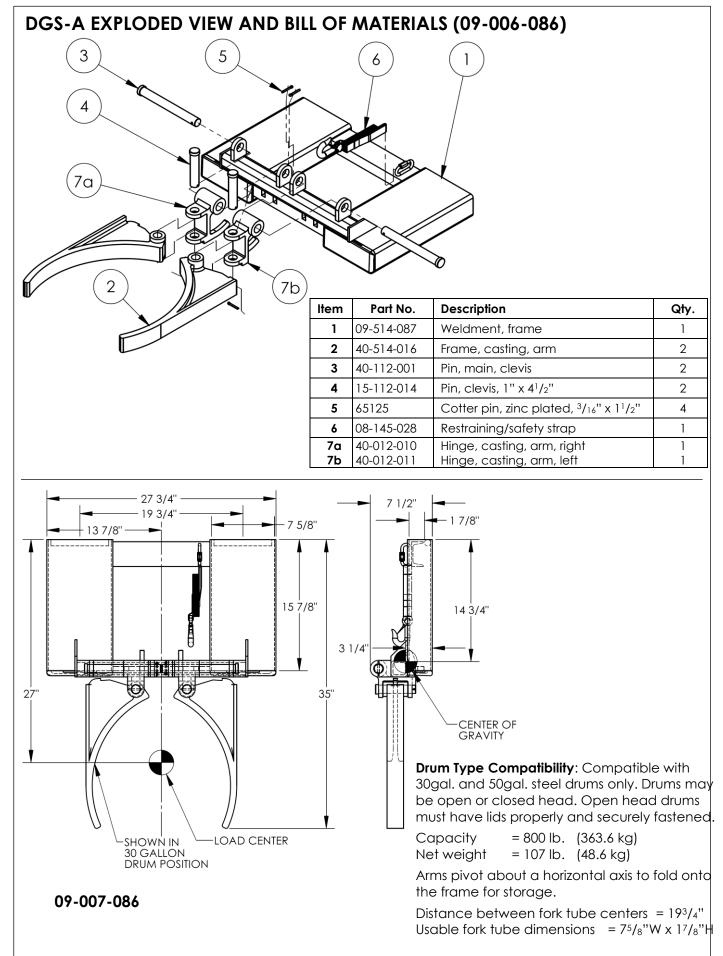
Unsafe use of this product could result in serious personal injury or death.

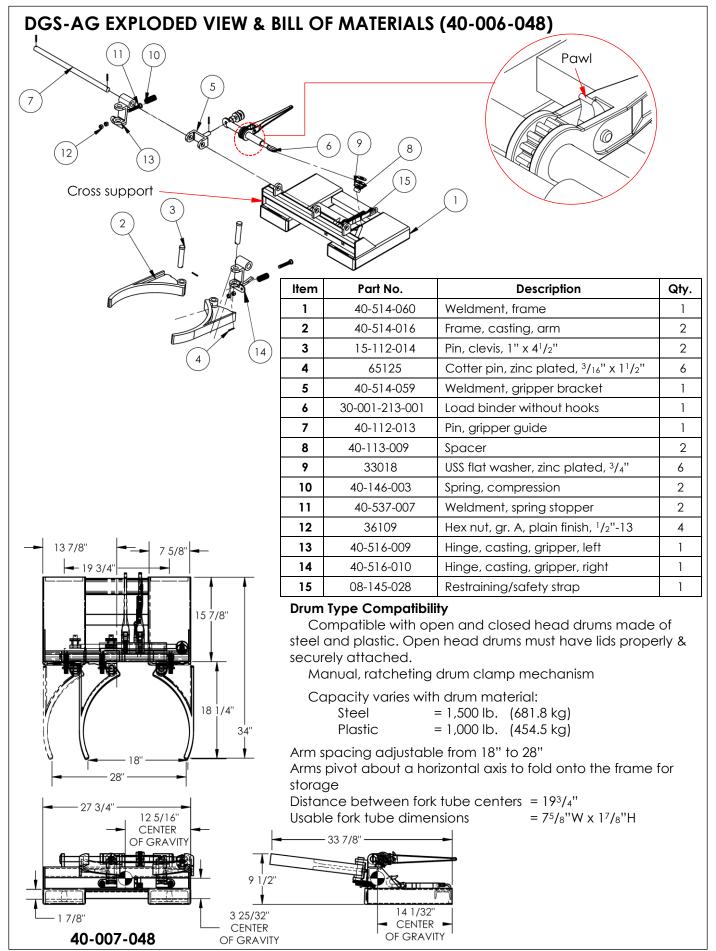
• Read and understand the entire manual before assembling, installing, using or servicing the product. Read the manual to refresh your understanding of proper use and maintenance procedures. Maintenance personnel must read the manual before servicing the drum lifter.

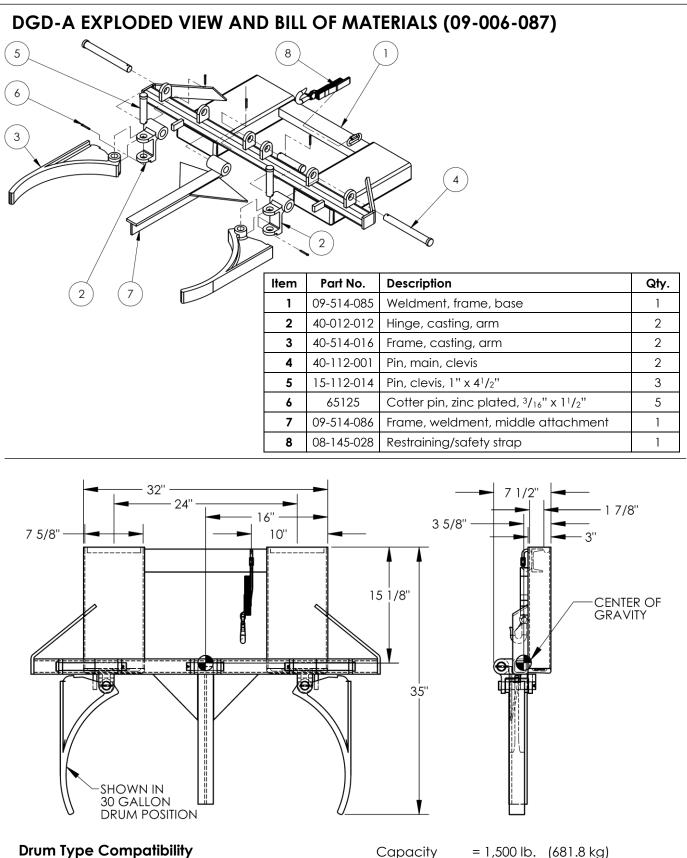
- DO NOT exceed the maximum rated load. See Label 1153 on product; see LABELING DIAGRAM, p. 9.
- DO NOT use this device with rough terrain lift trucks or telehandlers (boom trucks). ONLY use it with high lift fork trucks having a vertical mast and carriage.
- DO NOT mount the hopper on stackers or manually propelled lift trucks.
- DO NOT operate the truck carrying this device on unimproved surfaces. Only operate on concrete or asphalt.
- Mark your forklift truck to identify the drum lifter attachment and show the approximate weight of the truck and attachment combination at maximum elevation with load laterally centered. Capacity, operation, and maintenance instruction plates, tags, or decals must be changed accordingly.
- Inspect the drum lifter as instructed in the <u>INSPECTIONS & MAINTENANCE</u> section on p. 7-8. DO NOT use the device unless it is in satisfactory condition. If you observe any structural damage (for example, significant damage to either or both fork pockets, the safety chain/strap, or the drum-gripping mechanism), tag the unit "Out of Service" and report the damage to maintenance personnel. DO NOT use the lifter until it is restored to satisfactory condition.
- Inspect the <u>drum</u> before engaging it with the lifter. Make sure that the drum (particularly the rim and rolling hoops) is in good condition. DO NOT attempt to lift or transport a damaged drum with the lifter.
- Stay clear of the drum and lifter while the lifter is in use! No part of your body should ever be beneath any part of the elevated lifter or drum.
- ONLY use this device to move drums and only those drums that are compatible with your product, i.e. steel, plastic, and/or fiber. Compatibility information is provided with the <u>EXPLODED VIEWS</u> on pages 3-5.
- When transporting a drum, only raise it a few inches above the ground.
- Transport drums slowly. Avoid bumps, potholes, etc. when transporting a drum which could disrupt the lifter's grasp on the rim.
- Avoid sudden stops when transporting drums. Brake gradually. Sudden stops could cause the lifter to slide on the forks and could damage the safety strap, hook, and/or quick link. Turn slowly. Sharp, quick turns could disrupt the clamp on the drum and damage the lifter.

• DO NOT modify the lifter in any way. Unapproved modifications automatically void the <u>LIMITED</u> <u>WARRANTY</u> (see p. 10) and might make the product unsafe to use.

• DO NOT use the lifter UNLESS all labels are in place, readable, and undamaged. See <u>LABELING DIAGRAM</u> on p. 9.







Compatible with 30gal. and 50gal. steel drums only. Drums may be open or closed head. Open head drums must have lids properly and securely fastened.

= 1,500 lb. (681.8 kg) Capacity Arms pivot about a horizontal axis to fold onto the frame for storage.

Distance between fork tube centers = 24" Usable fork tube dimensions = 75/8"W x 17/8"H

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NATIONAL STANDARDS

US OSHA Rule 1910.178 (29 CFR 1910.178; the "Rule") classifies this device as a front end attachment whenever it is mounted on a lift truck. The Rule incorporates American National Standard ANSI/ITSDF B56.1 (the "Standard"). The Standard is published by the Industrial Truck Standards Development Foundation on its website (www.itsdf.org) where it is freely downloadable at http://www.itsdf.org/cue/b56-standards.html. Before putting this device into service, acquire a copy of the Standard. Apply all relevant parts of Part II: For the User. If instructions provided in this manual conflict with the Standard, then you should apply the instructions in the Standard. Vestil requests that you immediately report conflicts to its <u>TECHNICAL SERVICE</u> department. Contact information for the <u>TECHNICAL SERVICE</u> department appears on the cover page of this manual.

USING THE DRUM LIFTER

Standard DGS and DGD model drum lifters are designed to be used in non-classified, general industry locations. They should not be used to transport hazardous wastes.

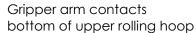
The safety strap must be used every time the unit is mounted on a fork truck. Wrap the free end of the strap around the fork carriage and fasten the hook to the strap or carriage **without slack**. The strap must be taut.

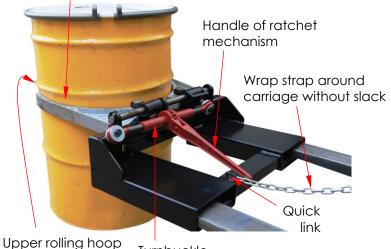
<u>Step 1</u>: Adjust the positions of the forks on the carriage of your lift truck to match the fork tubes. Drive the forks into the fork tubes. Mount the drum lifter on the forks of your lift truck by slowly driving forward until the forks contact the ends of the pockets. Wrap the free end of the strap around the fork carriage. Attach the hook either to the strap or to the carriage. There must be <u>no slack</u> in the strap. Slack in the strap could allow the lifter to slide off of the forks if, for instance, you brake suddenly. The strap must not be able to disconnect from the carriage.

<u>Step 2</u>: Open the arms of the lifter.

a) DGS-A & DSD-A: Raise the forks and tilt the mast forward to spread the arms slightly. b) DGS-AG: Raise the forks. Adjust the mast tilt to make the gripper arms parallel to the floor. The left and right gripper hinges (items 13 and 14 on p. 4) must not touch the cross support. Adjust mast tilt, if necessary. Move the ratchet handle of the turnbuckle backand-forth a few times. Grasp one side of the turnbuckle during the back stroke to allow the handle to ratchet backwards. If the arms are moving closer together, then press down the top of the pawl to reverse directions. Move the handle back-and-forth until the arms are wide enough apart to fit around the drum.







pper rolling noop Turnbuckle

<u>Step 3</u>: Engage the drum.

a) DGS-A & DGD-A: Elevate the forks and adjust position so that the gripper arms are above the drum. Slowly lower the forks to bring the gripper arms over the top of the drum. Continue lowering the forks. The gripper arms will slide down the side of the drum. Position the arms below the first rolling hoop.

b) DGS-AG: Make sure that the arms are far enough apart to fit around the drum. Drive toward the drum with the drum between the arms. Stop when the drum contacts the back of the gripper arms. Adjust the height of the forks to bring the top sides of the arms into contact with the upper rolling hoop of the drum. Park the fork lift. Move the handle of the turnbuckle back-and-forth to bring the gripper arms into firm contact with the side of the drum. **NOTE: Do not overtighten the arms, particularly when clamping plastic and fiber drums.**

Step 4: Raise the forks.

a) DGS-A & DGD-A: Elevate the drum just a few inches above the ground. Tilt the mast back slightly.

b) DGS-AG: Elevate the forks sufficiently to raise the drum a few inches above the ground.

<u>Step 5</u>: Transport the drum to the necessary location. Turn slowly and brake gradually. Stopping suddenly might cause the lifter to slide on the forks or disrupt the clamp on the drum.

<u>Step 6</u>: Release the drum.

a) DGS-A & DGD-A: Tilt the mast forward. Slowly lower the forks until the entire bottom drum rim rests on the ground. Carefully back away from the drum until the gripper arms are completely free of the drum.

b) DGS-AG: Lower the forks until the entire lower drum rim rests on the ground. Reverse the pawl. Move the ratchet handle back-and-forth to loosen the turnbuckle and release the clamp on the drum. Grasp one of the receivers during each backstroke.

RECORD OF SATISFACTORY CONDITION (THE RECORD")

Before putting the drum lifter into service, record its condition. Thoroughly photograph the unit from multiple angles. Take close-range photographs of the drum grippers, hinges, turnbuckle mechanisms (DGS-AG only), pins, fork pockets all labels, pivot points, the safety strap/chain and snap hook, quick link, and fork/tine locks (if applicable). Use the lifter to lift a drum. Describe how the drum grippers engage the drum. Describe all sounds produced by the lifter under load. Collect the photographs and writings in a file. Mark the file appropriately to identify it. This file is a record of the drum lifter in satisfactory condition (the "Record"). Compare the results of all inspections to this Record to determine whether the unit is in satisfactory condition. Do not use the lifter unless it is in satisfactory condition. Purely cosmetic changes, like damaged paint or powdercoat are not changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as the finish is damaged to prevent rust formation and metal erosion.

INSPECTIONS & MAINTENANCE

NOTICE

Proper use, maintenance, and storage are essential for this product to function properly.

• Inspect the unit as instructed.

• Use this front end attachment as recommended in the current revision of ANSI/ITSDF B56.1 and all instructions in this manual.

• Store the unit in a dry location.

Inspection procedures are included in the most current revision of ANSI/ITSDF B56.1. As stated in the <u>NATIONAL STANDARDS</u> section on p. 6, Vestil recommends that you acquire a copy of the most recent revision of this standard. Apply all use and maintenance/care instructions in the standard. Vestil also recommends that you contact your local occupational health and safety authority to determine if any state or local laws, regulations, codes, ordinances, etc. apply inspection requirements where the lifter is used.

Inspections and all necessary repairs should be performed by qualified persons. Compare the results of each inspection to the <u>RECORD OF SATISFACTORY CONDITION</u>. Do not use the crane unless every part is in satisfactory condition. Purely cosmetic changes, like damaged paint/powdercoat, are not changes from satisfactory condition. However, touchup paint must be applied as soon as damage occurs to prevent rust from forming. Rust could cause the affected part to become unsound, which could make the lifter unsafe to use.

DON'T GUESS! If you have any questions about the condition of your product, contact the <u>TECHNICAL</u> <u>SERVICE</u> department. The phone number is provided on the cover page of this manual. <u>Never make</u> <u>temporary repairs of damaged or missing parts</u>. Only use manufacturer-approved replacement parts to restore the crane to satisfactory condition.

INSPECTIONS

A. Before each use inspect the following components:

1. <u>Carriage strap/chain and snap hook</u>: Confirm that the latch of the snap hook automatically closes. Examine the strap for cuts, tears, and areas of significant wear. Examine the snap hook (at the free end of the strap). It must not be bent or cracked or twisted. 2. <u>Labels</u>: Labels must be easily readable, undamaged, and be located where indicated in the <u>LABELING DIAGRAM</u> on p. 9. If a label is damaged, unreadable, or missing, contact the <u>TECHNICAL</u> <u>SERVICE AND REPLACEMENT PARTS DEPARTMENT</u> to order a replacement.

B. Periodic Inspections: At least once every 2 weeks inspect the lifter to confirm satisfactory condition. Do not return it to service unless it is in satisfactory condition.

- 1. <u>Fasteners (hardware) and hand chain</u>: Examine all bolts, nuts, washers, pins, the quick link, and snap hooks. Tighten loose fasteners. Replace locking fasteners with new fasteners
- 2. <u>Fork pockets</u>: Confirm that each pocket is structurally sound. In particular, examine the underside of the each pocket for rust and corrosion.
- 3. <u>Welds</u>: Make sure that all welds are intact. Check welds & the metal surrounding welds for damage.
- 4. <u>Gripper arms and hinge castings</u>: Confirm that both arms and hinge castings are not cracked or warped. Hinge castings should rotate smoothly to allow the arms to fold onto the frame for compact storage.
- 5. <u>Safety strap, quick link, and hook (attached to the free end of the safety chain)</u>: confirm that the quick link is undamaged and welded securely to the frame. The hook should not be bent, stretched, cracked, or otherwise damaged. Check the strap for cuts, tears, etc.
- 6. <u>Pivot points/ hinges</u>: Confirm that gripper arms pivot normally and/or that hinges operate normally. Check pivot points and hinges for significant wear. Lubricate the hinges. Lubrication might have to be applied more frequently under heavy usage conditions.
- 7. <u>Turnbuckle mechanism</u>: Set the pawl appropriately (see Step 2b on p. 7) to first move the gripper arms closer together and then farther apart. Confirm that the pawl properly interacts with the ratchet gear in both directions. The pawl should seat between gear teeth to prevent the turnbuckle from loosening on its own.
- 8. <u>Frame</u>: The structure should be clean, square and rigid, and free of rust and corrosion. Clean the frame. Examine it for severe wear, rust, and other forms of damage.

MAINTENANCE

Step 1: Tag the unit "Out of Service."

Step 2: Remove any dirt or other matter from all surfaces.

Step 3: Conduct a "Periodic" inspection. If deformity, corrosion, rusting, or excessive wear of structural members is found, permanently remove the unit from service.

Step 4: Perform all necessary adjustments, replacements and/or repairs but DO NOT modify the lifter._DO NOT use the unit if adjustments and/or repairs are incomplete!

An "adjustment" is a simple correction that restores the unit to satisfactory condition, such as tightening loose fasteners, or removing dirt or other debris from the surface. "Repair" refers to removing worn parts and installing manufacturer-approved replacement parts.

A "modification" is a change that <u>alters the drum lifter from satisfactory condition</u>, like bending the structural members or removing a part or several parts. <u>NEVER</u> modify the unit without the express, written approval of Vestil. Modifications might make the device unsafe to use and *automatically* void the <u>LIMITED WARRANTY</u>.

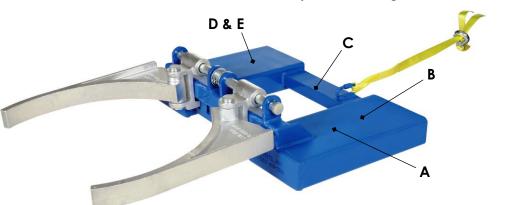
Step 5: Make a dated record of all repairs, adjustments and/or replacements.

1153

LABELING DIAGRAM

Label content and location are subject to change. Your product might not be labeled exactly as shown. Compare this diagram to your RECORD OF SATISFACTORY CONDITION. Replace all labels that are damaged, missing, or not easily readable (e.g. faded). Order replacement labels by contacting the TECHNICAL SERVICE AND REPLACEMENT PARTS DEPARTMENT online at https://www.vestil.com/pageparts-request.php. Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to the PARTS DEPARTMENT.

NOTE: Labels and label locations are subject to change without notice.



A: Label 527

improper specation roight olor ancior bystandem roos:
Jeck, cable/ofhean, maged, nitly hazanda; cats with device or ave; onto in available; appriate for conditions, ca/deok, or position, opie to which benefith D unlocates,
1
quipe. La operación mión v/o al os transeuntes. el de segundad:
Isayhatsian mu, eabhai Isayhatsian startifucar neogeo: publiko a la cargo: tuta sileurnatira; Isaa ano maa apinoalada oo horquillana; statomini oo horquillana; statomini publichi del aperano. e anomini silebajar de lar ango.

D: Label 1049: OSHA requirements (On fork pocket near chain cup)

VESTIL MANUFACTURING CORPORATION

A WARNING

- Improper use of this fork attachment might result in death or serious injury.
- mproper use of this fork attachment might result in death or serious injury. Using this front end attachment affects lift truck center of gravity. Before using this fork attachment, US Federal regulation 29 CFR 1910.178 requires you to contact the manufacturer of your lift truck and request: 1. Written approval [29 CFR 1910.178(a)(4)] 2. Markings for (fork) lift truck that: Identify the attachment; Give approximate weight of truck and attachment at maximum elevation with laterally-centered load. [29 CFR 1910.178(a)(5)]. DO NOT use IUNTIL lift truck is marked with corrected capacity tars.
- DO NOT use UNTIL lift truck is marked with corrected capacity tag
- CAPACITY OF TRUCK & ATTACHMENT COMBINATION MIGHT BE LESS THAN CAPACITY OF ATTACHMENT. CONSULT TRUCK CAPACITY TAG/LABEL

1049

B: Label 1153 (on fork pocket)

MODEL / MODÉLO / MODÈLE WEIGHT / PESO / MASS CAPACITY / CAPACIDAD / CAPACITÉ

SERIAL / SERIE / SÉRIE _ UNITS: 2.2 lb. = 1kg 1" (or 1in.) = 2.54cm

C: Label 218 (on fork pocket)

	ADVERTENCIAS	
Improper use might result in death or serious personal injury. Attach device to fork carriage with safety chain/strap.	El uso imapropiado puede resultar en muerte o herirás personales. Atar aparato al mástil del montagcargas con cadenas/correrás.	
Drive lift truck forward until forks contact ends of fork pockets	 Maneje el montacargas para adelante hasta que las cuñas hagan contacto con la orilla del bolsillo de las cuñas. 	
Chain/straps must not be able to disconnect (slide free) from carriage.	La cadenas y correas no deben de deslizarse (soltarse) del mástil del montacargas.	
 Safety chain/strap must be taut. Connect chain/ strap to carriage via shortest line. 	• La cadena/correa de seguridad debe de estar apretado. 218 Asegure la cadena/correa al mástil via la ruta mas corta. revolti	

E: Label 1210: Do not use with telehandlers

Using this front end attachment exposes occupants & bystanders to risks of serious personal injuries or death.

 DO NOT use this front end attachment with rough terrain lift trucks or telehandlers (boom lifts). ONLY use this attachment with high lift fork trucks utilizing a vertical mast and carriage.

🛦 WARNING

· DO NOT operate truck with attachment on unimproved surfaces. ONLY operate the truck with the attachment on concrete or asphalt surfaces capable of supporting the truck and a full capacity load.

LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the <u>Customer Invoice</u> that displays the shipping date; AND 2) a <u>written request</u> for warranty service including your name and phone number. Send requests by one of the following methods:

<u>US Mail</u> Vestil Manufacturing Company 2999 North Wayne Street, PO Box 507 Angola, IN 46703

<u>Fax</u> (260) 665-1339 <u>Phone</u> (260) 665-7586

info@vestil.com Enter "Warranty service request" in the subject field.

Email

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is <u>90 days</u>. For wearing parts, the warranty period is <u>90 days</u>. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

What is <u>not</u> covered by the warranty?

The Warrantee (you) is responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;

• <u>Unauthorized modifications</u>: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

Do any other warranties apply to the product?

Vestil Manufacturing Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.

