

# Vestil Manufacturing Company

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# **FE-Series Fork Extensions**



#### **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 <a href="https://www.vestil.com/page-parts-request.php">https://www.vestil.com/page-parts-request.php</a>.

#### **Electronic copies of Instruction Manuals**

Additional copies of this instruction manual may be downloaded from <u>https://www.vestil.com/page-manuals.php</u>

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SIGNAL WORDS				
SIGNAL WORDS in this manual draw the reader's attention to important safety-related messages.				
<b>A</b> DANGER	Identifies a hazardous situation which, if not avoided, <u>WILL</u> result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.			
<b>A</b> WARNING	Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.			
	Indicates a hazardous situation which, if not avoided, COULD result in MINOR or MODERATE injury.			
NOTICE	Identifies practices likely to result in product/property damage, such as operation that might damage the product.			

### SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products. However, material handling is dangerous and no manual can address every conceivable risk. The end-user ultimately is responsible for exercising sound judgment at all times. Acquire a copy of the latest version of ANSI B56.1, which is freely downloadable on <u>www.ITSDF.org</u>. The following recommendations are intended to complement the guidance provided in B56.1. Vestil requests that you contact the <u>TECHNICAL SERVICE DEPARTMENT</u> (the "TSD") if you have any questions about instructions in the manual. We intend to provide our customers with the best instructions possible and encourage you to contact the TSD if you believe that a necessary instruction is missing or incomplete.

# **A** WARNING

Using fork extensions unsafely could result in serious personal injuries or even death.

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

• DO NOT mount the hopper on stackers or manually propelled lift trucks.

• DO NOT operate the truck carrying this boom on unimproved surfaces. Only operate on concrete or asphalt surfaces.

• ONLY use fork extensions as a means for supporting palletized loads or skids.

• Inspect both extensions before each use according to the <u>INSPECTION</u> instructions on page 6. DO NOT use a damaged fork extension. Examples of structural damage include: a) broken tine lock, retaining loop, or welds connecting the loop/lock to the main body of the extension (fork pocket); b) cracked, warped, bent or excessively corroded fork pockets; and c) cracks, warps, bends or excessive corrosion of the cast toe piece welded to the end of each fork pocket.

• DO NOT sit on or ride on the extensions.

• DO NOT use a fork extension UNLESS each label shown in <u>LABELING DIAGRAM</u> on p. 7 is applied to the extension and is undamaged and readable.

• DO NOT attempt to lift loads that exceed the capacity of your extensions or the load rating of the fork truck, whichever is smaller.

• DO NOT attempt to lift a load using only the toe of a fork extension. Permanent damage to the fork extension, damage to property, or serious personal injury could result.

• DO NOT modify either fork extension in any way. Unauthorized modifications might make the extension unsafe to use and could result in operator and/or bystander injury. Any modification not expressly approved beforehand by Vestil in writing automatically voids the warranty.

### NATIONAL STANDARDS

US OSHA Rule 1910.178 (29 CFR 1910.178; the "Rule") classifies for extensions as front end attachments for lift trucks. 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. See <a href="http://www.itsdf.org/cue/b56-standards.html">http://www.itsdf.org/cue/b56-standards.html</a>. Before putting these extensions into service, acquire a copy of the Standard. Apply all provisions of Part II: For the User that are relevant to the use of fork extensions. If instructions provided in this manual appear to conflict with provisions of the Standard, then you should apply the instructions in the Standard. Vestil requests that you immediately notify the <u>TECHNICAL SERVICE</u> department about all apparent conflicts. Contact information for <u>TECHNICAL SERVICE</u> appears on the cover page of this manual.

### **APPROVALS AND MARKINGS**

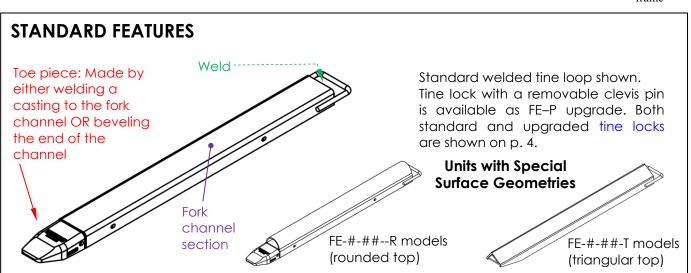
BEFORE putting these extensions into service, contact the manufacturer of your fork lift to verify that they can safely be used with the fork lift. OSHA rule 29 CFR 1910.178(a)(4) requires the lift manufacturer to approve the use of these extensions with your forklift. The manufacturer must also provide updated labels/tags for the forklift before the extensions may be used, according to 29 CFR 1910.178(a)(5).

**a.** "Modifications and additions which affect [fork lift] capacity and safe operation shall not be performed by the customer or user without manufacturer's prior written approval. Capacity, operation, and maintenance instruction plates, tags, or decals shall be changed accordingly." See 29 CFR 1910.178(a)(4).

**b.** "If [your fork lift] truck is equipped with front-end attachments [like fork extensions] other than factory installed attachments, the user shall request that the truck be marked to identify the attachments and show the approximate weight of the truck and attachment combination at maximum elevation with load laterally centered." See 29 CFR 1910.178(a) (5).

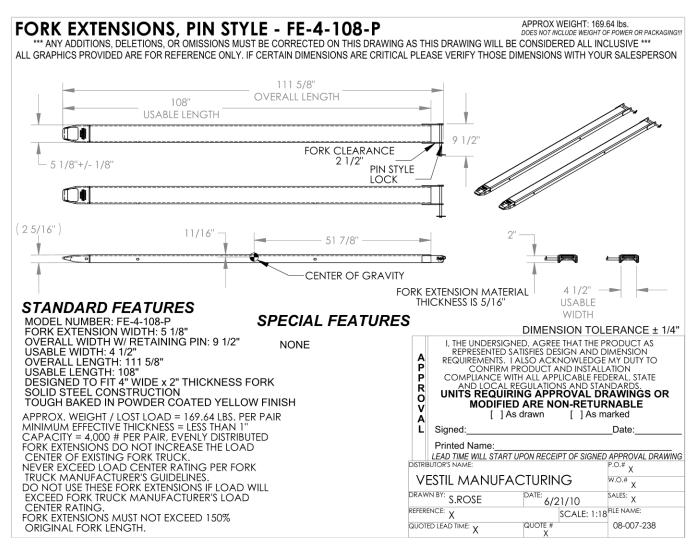
**NOTE:** Although the regulations cited above impose a duty on the manufacturer of your forklift to approve the use of these fork extensions on your forklift, the manufacturer may refuse to do so. In that case, a "Qualified Registered Professional Engineer" may be hired to "perform a safety analysis and address any safety and/or structural issues contained in the [manufacturer's] negative response...Machine data plates must be changed accordingly." See April 11, 1997 OSHA letter of interpretation to Mr. Kenneth J. Yotz titled, Powered industrial truck modifications and approval. Supporting

frame



### **SPECIFICATIONS**

Specifications for FE-series fork extensions are provided on Vestil's website. To access the appropriate specifications document, navigate to this webpage: <u>https://www.vestil.com/category.php?CID=83</u>. Click the button that corresponds to the particular subseries of fork extension you purchased. Once on the appropriate page, scroll to the *Model Specific Details* portion of the page and select *Interactive Model Table*. Scroll the table to the model you purchased and click the button in the PDF column that looks like a pencil inside a blue box. A PDF file will open. This file is the specifications document for your model. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specifications document for model FE-108-P.

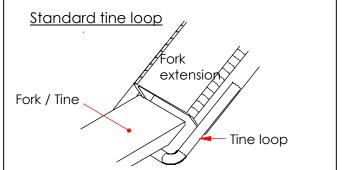


# INSTALLING A PAIR OF FORK EXTENSIONS

Obtain a copy of the most recent edition of ANSI/ITSDF B56.1 <u>BEFORE</u> installing, using, or maintaining your fork extensions.

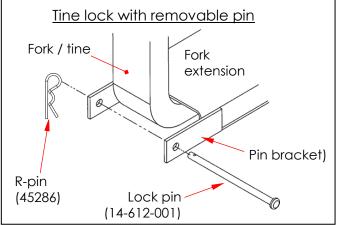
### Standard Welded-Loop Tine Lock

Raise the forks (tines) approximately 4-6in. from the ground. Manually lift the tip of the fork extension so that the extension is angled at 45° to the ground/floor. Guide the tine loop underneath the tapered end of the tine; slide the fork extension onto the tine until it reaches the heel of the tine; then lower the extension onto the fork once the tine lock is behind the heel of the tine.



Removable Pin Tine Lock (Models FE-x-xx-P)

Remove the R-pin and pull out the lock pin. Place the fork extension over the tine/fork. Install the locking behind the heel of the tine; then reinstall the R-pin through the pin brackets and secure it with an R-pin.



### **PROPER FIT**

Using fork extensions that are too long or too wide, or both, is dangerous. After receiving your extensions you should confirm that they properly fit your forklift. If you have any questions about the fit of your extensions, contact *Technical Service*. DO NOT use the extensions unless they properly fit the forks of your forklift.

- 1. Compare the length of the forks (also called tines) to the length of the fork extensions. The extensions must not be more than 150% of the length of the forks.
- 2. Review labeling applied to the underside of your extensions. The warning label provides important information about the minimum and maximum dimensions of forks that could be used with the extension.
- 3. To prevent the extensions from moving side-to-side during use, select a model that matches the fork width. According to ANSI/ITSDF B56.1-2005, paragraph 7.39.5, p. 51, for a fork extension to fit a fork properly, "Lateral clearance shall not exceed 12mm between fork and extension."

## **RECORD OF SATISFACTORY CONDITION**

Before putting these fork extensions into service, make a written record that thoroughly describes the condition of each one. Describe welds, hardware (if applicable), and paint/powder coat. Determine the levelness of each extension, e.g. with a bubble level. Photograph the extension from several vantage points. Include photos of the underside of each extension. Photograph all labels applied to the extensions. Indicate where the labels are applied. Collect all writings and photos in a file. The file is a record of the extensions in satisfactory condition. Compare the results of all inspections to your record to determine whether an extension is in satisfactory condition or requires repair. Purely cosmetic changes, e.g. damaged paint/powdercoat, are not changes from satisfactory condition. However, touchup paint should be applied wherever the finish is damaged as soon as the damage occurs. Left unpainted, exposed metal will begin to rust. Over time, rust will degrade the integrity of the metal.

### **INSPECTIONS**

Inspections and repairs should only be performed by qualified persons. Compare the results of each inspection to the <u>RECORD OF SATISFACTORY CONDITION</u> (the "RECORD"). Do not use the lifter unless all parts are in satisfactory condition. Replace parts that are not in satisfactory condition before using the lifter again. **DON'T GUESS! If you have any questions about the condition of your boom, 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. Replace the entire unit if it cannot be restored to satisfactory condition.

### **A WARNING**

Immobilize the boom before conducting inspections and performing maintenance. If an inspection reveals problems, restore the boom to satisfactory condition BEFORE using it again. DO NOT use a boom that is structurally damaged in any way. Structural damage includes, but is not limited to, cracked welds, warping or deformation of the fork pockets, support leg, frame members, boom, or boom sleeve.

1. **Before each use** – Visually examine each extension. Look for cracks, bends, significant rusting/corrosion, and damaged welds (fusing the tin loop, tine brackets, or toe piece to the channel piece.

2. Monthly inspection — At least once per month, and before using either of the extensions for the first time, inspect the following:

**Fork channel and toe piece (if applicable)** — Fork channels should be square, rigid, and free of significant rust or corrosion. Each toe piece should be solidly welded to the channel. Look for significant wear, damage, or indications of metal fatigue to any portion of the fork channel or toe piece.

<u>Tine loop (standard units)</u> — Check all welds. Each loop should be straight, substantially parallel to the top surface of the extension, and undamaged, i.e. no cracks, breaks, warps, etc.

**Tine brackets and lock pin (only -P models)** — Both brackets must be solidly welded to the outer walls of the fork channel. The lock pin should be straight and without bends, cracks, rust/corrosion, or significant wear. Inspect the R-pin for cracks, rust/corrosion, and significant wear.

<u>Labeling</u> — Each pair of extensions should always be labeled as shown in the <u>LABELING DIAGRAM</u> on p. 7. Replace any label that is damaged, significantly faded, or not easily readable from a reasonable distance.

3. **Annual Lift Test** – At least once per year, perform a <u>LOAD TEST</u> (p. 7) of the boom. Afterwards, conduct a <u>MONTHLY INSPECTION</u>. Confirm <u>SATISFACTORY CONDITION</u> before returning it to service.

### MAINTENANCE LOG

Implement a maintenance program that includes keeping a journal/log of all maintenance performed on each fork extension to ensure that extensions remain in satisfactory condition. Apply the following steps in conjunction with maintenance procedures applicable to fork truck attachments provided in the most recent edition of ANSI/ITSDF B56.1.

Step 1: Tag the pair of extensions, "Out of Service."

Step 2: Remove dirt and other matter from all surfaces.

**Step 3**: Conduct a Monthly inspection. If an extension has severe deformities, corrosion, rusting, or excessive wear, DO NOT return the product to service. Tag it permanently out of service and render it unusable.

**Step 4**: Perform all necessary adjustments, replacements and/or repairs. DO NOT modify a fork extension.

### **A** WARNING

DO NOT return an extension to service until all necessary adjustments and repairs are complete! An adjustment is a simple correction that restores <u>SATISFACTORY CONDITION</u>, such as tightening loose fasteners or removing debris from surfaces. Repair means removal of worn parts and installation of replacement parts, e.g. a new lock pin or R-pin. A "modification" is a change that <u>alters an extension from original, satisfactory condition</u>, like bending the structural members or removing parts. <u>NEVER</u> modify an extension without the express, written approval of Vestil. Modifications might make an extension unsafe to use and automatically void the <u>LIMITED WARRANTY</u> on p. 8.

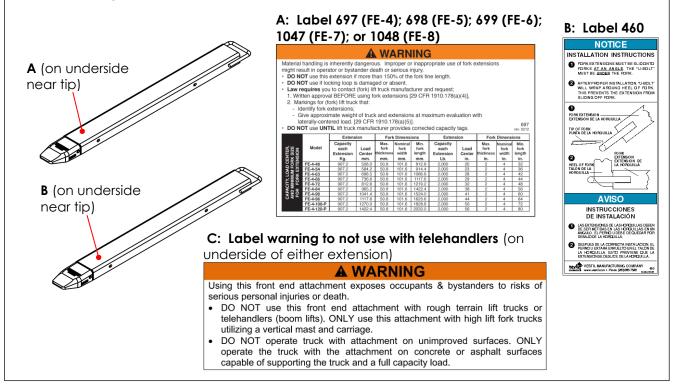
**Step 5**: Make a dated record of all repairs, adjustments, and replacements performed.

### LOAD TESTS

After creating a <u>RECORD OF SATISFACTORY CONDITION</u> and before using the boom for the first time, a qualified person should conduct a load test. The test load should be 125% of the rated load (capacity) of the lifter. For instance, if the rated load (capacity) is 1,000 lb. (454.5kg) the test load should be 1,250 pounds (568.2kg). Raise the load off of the ground until it is entirely supported by the lift truck. Leave the load suspended for a few minutes; then lower it to the ground. Perform a <u>MONTHLY INSPECTION</u> as described in the <u>INSPECTIONS</u> section on p. 6. The pair of extensions should undergo load testing immediately after either one is repaired. Never modify the boom without first receiving written approval from Vestil.

### LABELING DIAGRAM

Each pair of extensions should be labeled as shown in the diagram. However, label content and location are subject to change so your product might not be labeled exactly as shown. Replace all labels that are damaged, missing, or not easily readable (e.g. faded). To order replacement labels, contact the technical service and parts department online at <a href="https://www.vestil.com/page-parts-request.php">https://www.vestil.com/page-parts-request.php</a>. Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to the Technical Service & Parts Department.



### 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>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Company	(260) 665-1339	<u>info@vestil.com</u>
2999 North Wayne Street, PO Box 507	<u>Phone</u>	Enter "Warranty service request"
Angola, IN 46703	(260) 665-7586	in subject field.

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>30 days</u>. For wearing parts, the warranty period is <u>30 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.

