



Vestil Manufacturing Corp.

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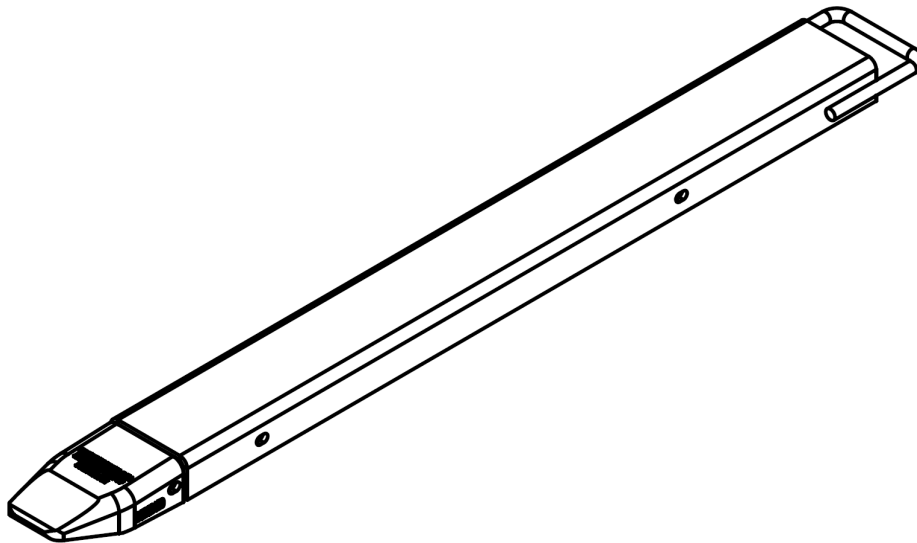
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FE-Series Fork Extensions

Instruction Manual



Receiving instructions:

After delivery, IMMEDIATELY remove the packaging from the product in a manner that preserves the packaging; then inspect the product closely to determine whether it sustained damage during transport. **If damage is discovered during the inspection, immediately record a complete description of the damage on the bill of lading.** If the product is undamaged, discard the packaging.

NOTE:

Responsibility for complying with laws, regulations, codes, and non-voluntary standards enforced in the location where the product is used lies exclusively with the end-user.

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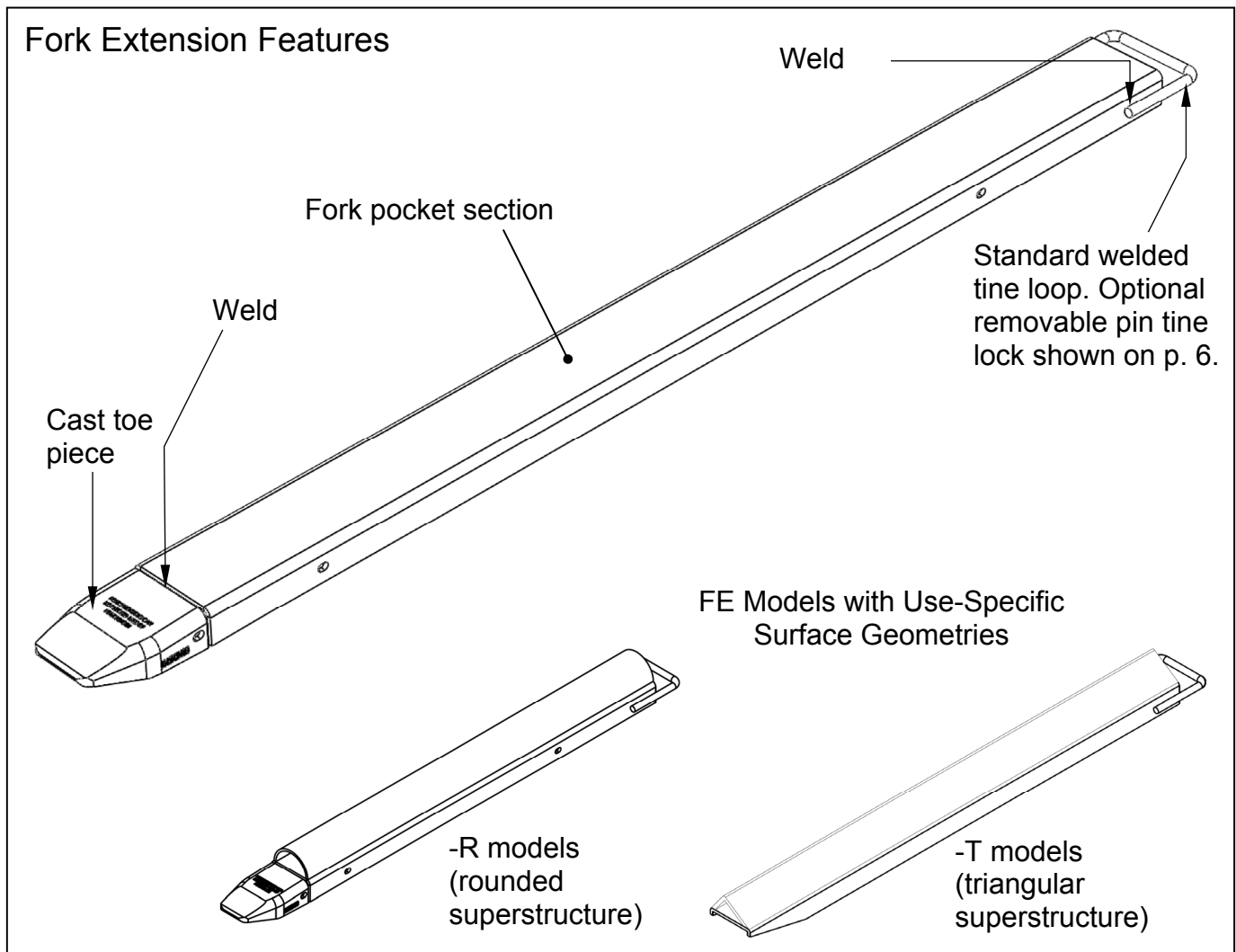
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NOTES:

Specifications:

Dimensions and other product specifications appear in the following table.

Model	Nominal fork width in inches (cm)	Interior width of fork extension in inches (cm)	Usable length of extension in inches (cm)	Height of fork extension in inches (cm)	Net weight of pair in pounds (kg)
FE-4-48	4 (10.2cm)	4½ (11.4cm)	48 (122cm)	2 (5.1cm)	76.1 (34.6kg)
FE-4-54	4 (10.2cm)	4½ (11.4cm)	54 (137cm)	2 (5.1cm)	85.4 (38.8kg)
FE-4-60	4 (10.2cm)	4½ (11.4cm)	60 (152cm)	2 (5.1cm)	94.8 (43.1kg)
FE-4-63	4 (10.2cm)	4½ (11.4cm)	63 (160cm)	2 (5.1cm)	99.4 (45.2kg)
FE-4-66	4 (10.2cm)	4½ (11.4cm)	66 (168cm)	2 (5.1cm)	104.1 (47.3kg)
FE-4-72	4 (10.2cm)	4½ (11.4cm)	72 (183cm)	2 (5.1cm)	113.4 (51.5kg)
FE-4-84	4 (10.2cm)	4½ (11.4cm)	84 (213cm)	2 (5.1cm)	132.1 (60.0kg)
FE-4-90	4 (10.2cm)	4½ (11.4cm)	90 (229cm)	2 (5.1cm)	141.1 (64.1kg)
FE-4-96	4 (10.2cm)	4½ (11.4cm)	96 (244cm)	2 (5.1cm)	150.7 (68.5kg)
FE-4-108-P	4 (10.2cm)	4½ (11.4cm)	108 (274cm)	2 (5.1cm)	171.5 (78.0kg)
FE-4-120-P	4 (10.2cm)	4½ (11.4cm)	120 (305cm)	2 (5.1cm)	190.1 (86.4kg)
FE-5-48	5 (12.7cm)	5½ (14cm)	48 (122cm)	2 (5.1cm)	85.1 (38.7kg)
FE-5-54	5 (12.7cm)	5½ (14cm)	54 (137cm)	2 (5.1cm)	98.5 (43.4kg)
FE-5-60	5 (12.7cm)	5½ (14cm)	60 (152cm)	2 (5.1cm)	105.9 (48.1kg)
FE-5-63	5 (12.7cm)	5½ (14cm)	63 (160cm)	2 (5.1cm)	111.1 (50.5kg)
FE-5-66	5 (12.7cm)	5½ (14cm)	66 (168cm)	2 (5.1cm)	116.3 (52.8kg)
FE-5-72	5 (12.7cm)	5½ (14cm)	72 (183cm)	2 (5.1cm)	126.6 (57.6kg)
FE-5-84	5 (12.7cm)	5½ (14cm)	84 (213cm)	2 (5.1cm)	147.4 (67.0kg)
FE-5-90	5 (12.7cm)	5½ (14cm)	90 (229cm)	2 (5.1cm)	157.8 (71.7kg)
FE-5-96	5 (12.7cm)	5½ (14cm)	96 (244cm)	2 (5.1cm)	168.2 (76.5kg)
FE-5-108-P	5 (12.7cm)	5½ (14cm)	108 (274cm)	2 (5.1cm)	190.3 (86.5kg)
FE-5-120-P	5 (12.7cm)	5½ (14cm)	120 (305cm)	2 (5.1cm)	211.1 (96.0kg)
FE-6-48	6 (15.2cm)	6½ (16.5cm)	48 (122cm)	2 (5.1cm)	94.1 (42.8kg)
FE-6-54	6 (15.2cm)	6½ (16.5cm)	54 (137cm)	2 (5.1cm)	105.5 (48.0kg)
FE-6-60	6 (15.2cm)	6½ (16.5cm)	60 (152cm)	2 (5.1cm)	117.0 (53.2kg)
FE-6-63	6 (15.2cm)	6½ (16.5cm)	63 (160cm)	2 (5.1cm)	122.7 (55.8kg)
FE-6-66	6 (15.2cm)	6½ (16.5cm)	66 (167.6cm)	2 (5.1cm)	128.4 (58.4kg)
FE-6-72	6 (15.2cm)	6½ (16.5cm)	72 (183cm)	2 (5.1cm)	139.9 (63.6kg)
FE-6-84	6 (15.2cm)	6½ (16.5cm)	84 (213cm)	2 (5.1cm)	162.8 (74.0kg)
FE-6-90	6 (15.2cm)	6½ (16.5cm)	90 (229cm)	2 (5.1cm)	174.2 (79.2kg)
FE-6-96	6 (15.2cm)	6½ (16.5cm)	96 (244cm)	2 (5.1cm)	185.7 (84.4kg)
FE-6-108-P	6 (15.2cm)	6½ (16.5cm)	108 (274cm)	2 (5.1cm)	209.1 (95.0kg)
FE-6-120-P	6 (15.2cm)	6½ (16.5cm)	120 (305cm)	2 (5.1cm)	232.0 (105.4kg)
FE-4-54-T	4 (10.2cm)	4½ (11.4cm)	54 (137cm)	2 (5.1cm)	84 (38.2kg)
FE-4-63-T	4 (10.2cm)	4½ (11.4cm)	63 (160cm)	2 (5.1cm)	98 (44.5kg)
FE-5-54-T	5 (12.7cm)	5½ (14cm)	54 (137cm)	2 (5.1cm)	148 (67.3kg)
FE-5-63-T	5 (12.7cm)	5½ (14cm)	63 (160cm)	2 (5.1cm)	172 (78.2kg)
FE-4-54-R	4 (10.2cm)	4½ (11.4cm)	54 (137cm)	2 (5.1cm)	132 (60kg)
FE-4-63-R	4 (10.2cm)	4½ (11.4cm)	63 (160cm)	2 (5.1cm)	148 (57.4kg)
FE-5-54-R	5 (12.7cm)	5½ (14cm)	54 (137cm)	2 (5.1cm)	180 (81.8kg)
FE-5-63-R	5 (12.7cm)	5½ (14cm)	63 (160cm)	2 (5.1cm)	200 (90.9kg)



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 signal words used appear below along with the meaning of each word:



Identifies a hazardous situation which, if not avoided, WILL result in DEATH or SERIOUS INJURY. Use of this signal word is limited to the most extreme situations.



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.



Identifies practices likely to result in product/property damage, such as operation that might damage the product.

Each person who installs, uses, or maintains this product should read the entire manual in advance and fully understand the directions. If after reading the manual you do not understand an instruction, ask your supervisor or employer for clarification, because failure to adhere to the directions in this manual might result in serious personal injury.

Use recommendations:

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 most effective means for avoiding injury is for the user to exercise sound judgment whenever using these extensions.

▲WARNING

Improper or careless operation might result in serious personal injuries.

- ONLY use fork extensions as a means for supporting palletized loads or skids.
- Inspect both extensions before each use according to the inspection instructions (below on same page). 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 “Labeling Diagram” on p. 7 is affixed to the extension and is undamaged and readable.
- DO NOT attempt to lift loads that exceed the capacity of your extensions. DO NOT exceed the load rating of the fork truck. (See “4. Contact the manufacturer...” on p. 6-7).
- 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.

Inspections:

Before putting an extension into regular service, make a written record of its appearance. Pay particular attention to tine locks and tine lock hardware. This record establishes **normal condition**. During future inspections, compare observations to the record to determine if an extension is in normal condition. DO NOT use the extension unless it is in normal condition.

Before each use:

- Look for damage to either the fork extension or the tine lock/loop. Verify that the locking mechanism functions normally.
- Examine the cast tapered end of the extension. Make sure that it is not cracked or deformed, and that the weld between the tapered end and the fork pocket portion is intact.

At least once per month:

- Inspect each extension for warps, bends, and cracks.
- Closely inspect the tine lock/loop for damage.
- Verify that all welds are intact.
- Confirm that each label is located as shown in the “Labeling Diagram” on p. 7 and is undamaged and readable.

Using the fork extensions:

1. Compare the length of the forks to the length of the fork extensions; each extension must not be more than 150% of the length of the tine.
2. Review labeling applied to your fork extensions. The warning label displays important information about your extensions as well as minimum and maximum fork dimensions.
3. To prevent the fork extension from moving from side-to-side during use, select a model that matches the tine width (see “Nominal fork width in inches (cm)” from the table on p. 3; also see ANSI/ITSDF B56.1-2005, paragraph 7.39.5, p. 51, “Fork extensions shall be designed to avoid unintentional disengagement from the forks. Lateral clearance shall not exceed 12mm between fork and extension.”)
4. Contact the manufacturer of your fork lift to verify that your fork extensions can safely be used with the fork lift. The manufacturer must also provide updated labels/tags for the fork lift because, of course, regulations impose these obligations:

- 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).

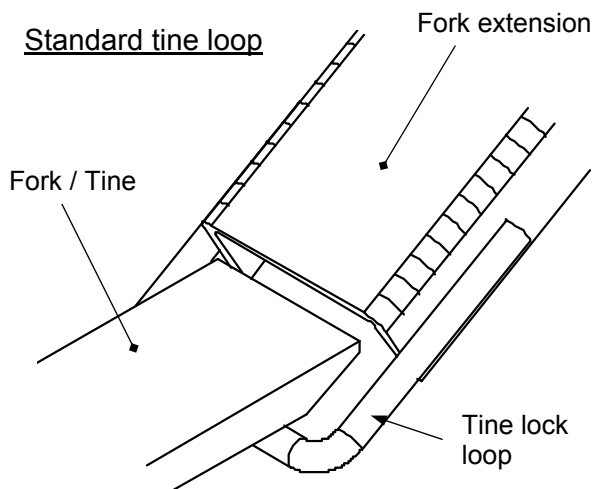
NOTE: Although the regulations cited above impose a duty on the fork truck manufacturer to approve the use of these fork extensions on your forklift, the manufacturer may refuse to do so. In that case, you should hire a "Qualified Registered Professional Engineer" to "perform a safety analysis and address any safety and/or structural issues contained in the [manufacturer's] negative response prior to granting approval. 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" accessible at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=INTERPRETATIONS&p_id=22384.

Installation:

Standard Welded Loop Tine Lock

Raise the forks/tines approximately 4-6in. from the ground. Lift the nose of the fork extension so that the extension is angled at 45° to the ground/floor. Guide the tine lock 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

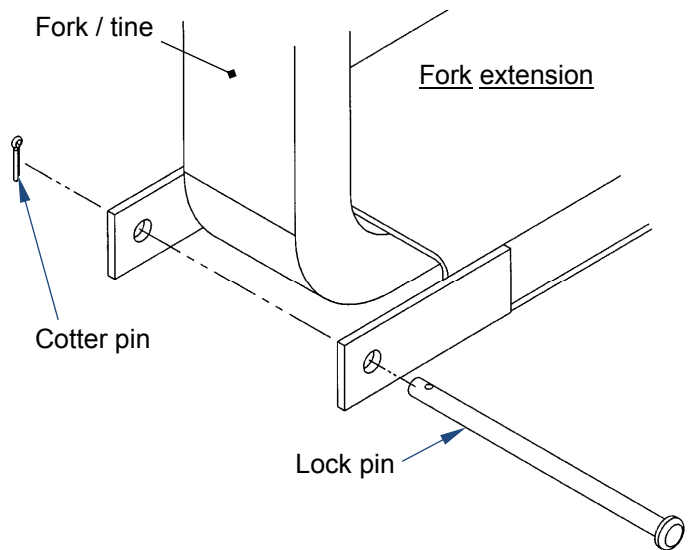
Standard tine loop



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

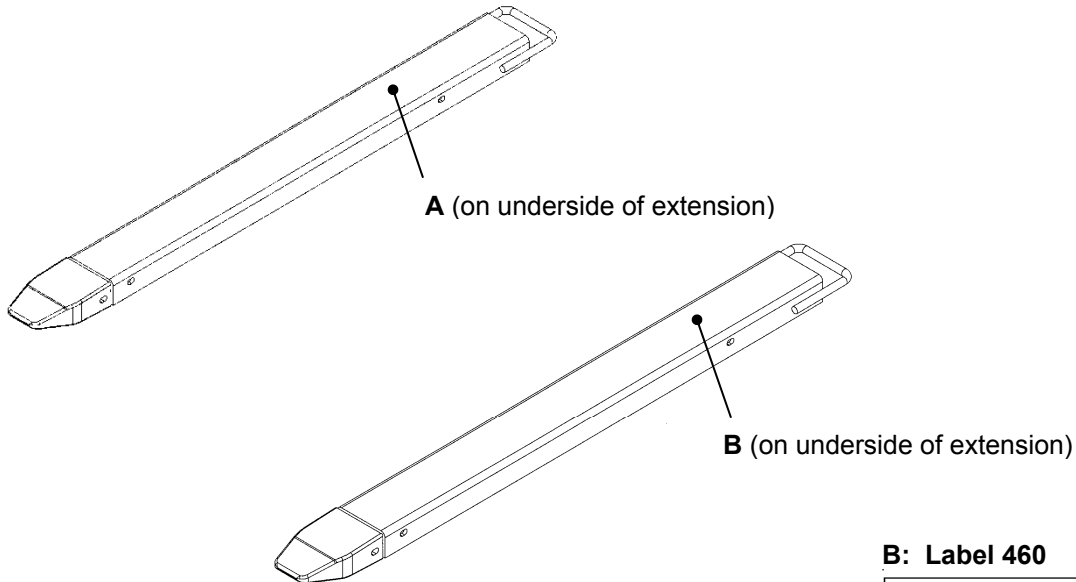
Remove the lock pin and place the fork extension over the fork truck's fork so it is all the way back against the fork's heel. Reinstall the locking pin behind the heel of the tine.

Optional removable pin tine lock



Labeling diagram (per pair):

Each pair of fork extensions should be labeled at all times as shown below. Replace a label that is missing, damaged, or not easily readable (e.g. faded).



A: Label 697 (FE-4); 698 (FE-5); 699 (FE-6); 1047 (FE-7); or 1048 (FE-8)

⚠ WARNING

Material handling is inherently dangerous. Improper or inappropriate use of fork extensions might result in operator or bystander death or serious injury.

- **DO NOT** use this extension if more than 150% of the fork tine length.
- **DO NOT** use if locking loop is damaged or absent.
- **Law requires** you to contact (fork) lift truck manufacturer and request;
 1. Written approval **BEFORE** using fork extensions [29 CFR 1910.178(a)(4)].
 2. Markings for (fork) lift truck that:
 - Identify fork extensions;
 - Give approximate weight of truck and extensions at maximum evaluation with laterally-centered load. [29 CFR 1910.178(a)(5)].
- **DO NOT** use **UNTIL** lift truck manufacturer provides corrected capacity tags.

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rev. 0212

CAPACITY, LOAD CENTER, AND MINIMUM FORK SIZE FOR FORK EXTENSION	Model	Extension		Fork Dimensions			Extension		Fork Dimensions		
		Capacity each Extension Kg.	Load Center mm.	Max. fork thickness mm.	Nominal fork width mm.	Min. fork length mm.	Capacity each Extension Lb.	Load Center in.	Max. fork thickness in.	Nominal fork width in.	Min. fork length in.
	FE-4-48	907.2	508.0	50.8	101.6	812.8	2,000	20	2	4	32
	FE-4-54	907.2	584.2	50.8	101.6	914.4	2,000	23	2	4	36
	FE-4-63	907.2	698.5	50.8	101.6	1066.8	2,000	28	2	4	42
	FE-4-66	907.2	736.6	50.8	101.6	1117.6	2,000	29	2	4	44
	FE-4-72	907.2	812.8	50.8	101.6	1219.2	2,000	32	2	4	48
	FE-4-84	907.2	965.2	50.8	101.6	1422.4	2,000	38	2	4	56
	FE-4-90	907.2	1041.4	50.8	101.6	1524.0	2,000	41	2	4	60
	FE-4-96	907.2	1117.6	50.8	101.6	1625.6	2,000	44	2	4	64
	FE-4-108-P	907.2	1270.0	50.8	101.6	1828.8	2,000	50	2	4	72
	FE-4-120-P	907.2	1422.4	50.8	101.6	2032.0	2,000	56	2	4	80

B: Label 460

NOTICE

INSTALLATION INSTRUCTIONS

1. FORK EXTENSIONS MUST BE SLID ONTO FORKS AT AN ANGLE. THE "U-BOLT" MUST BE UNDER THE FORK.
2. AFTER PROPER INSTALLATION, "U-BOLT" WILL WRAP AROUND HEEL OF FORK. THIS PREVENTS THE EXTENSION FROM SLIDING OFF FORK.

1. FORK EXTENSION / EXTENSION DE LA HORQUILLA

TIP OF FORK / PUNTA DE LA HORQUILLA

2. HEEL OF FORK / TALÓN DE LA HORQUILLA

FORK EXTENSION / EXTENSION DE LA HORQUILLA

AVISO

INSTRUCCIONES DE INSTALACIÓN

1. LAS EXTENSIONES DE LAS HORQUILLAS DEBEN DE SER METIDAS EN LAS HORQUILLAS EN UN ANGULO. EL PERNO U DEBE DE QUEDAR POR DEBAJO DE LA HORQUILLA.
2. DESPUES DE LA CORRECTA INSTALACION, EL PERNO U ESTARA ENVUELTO EN EL TALON DE LA HORQUILLA. ESTO PREVIENE QUE LA EXTENSION SE DESLICE DE LA HORQUILLA.

VESTIL MANUFACTURING COMPANY 460
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LIMITED WARRANTY

Vestil Manufacturing Corporation (“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 if the part is 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.

What is an “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 Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by any of the following methods:

<u>Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Corporation 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	sales@vestil.com

In the written request, list the parts believed to be defective and include the address where replacements should be delivered.

What is covered under the warranty?

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 may require you to send the entire product, or just the defective part or parts, to its facility in Angola, IN. The warranty covers defects in the following original dynamic components: motors, hydraulic pumps, electronic controllers, switches 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 30 days. For wearing parts, the warranty period is 30 days. The warranty periods begin on the date when 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 the warranty periods 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 not covered by the warranty?

1. Labor;
2. Freight;
3. Occurrence of any of the following, which automatically voids the warranty:
 - Product misuse;
 - Negligent operation or repair;
 - Corrosion or use in corrosive conditions;
 - Inadequate or improper maintenance;
 - Damage sustained during shipping;
 - Accidents involving the product;
 - Unauthorized modifications: DO NOT modify the product IN ANY WAY without first receiving written authorization from Vestil. Modification(s) might make the product unsafe to use or might cause excessive and/or abnormal wear.

Do any other warranties apply to the product?

Vestil Manufacturing Corp. 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.

