

Vestil Manufacturing Co.

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PS-4045 Adjustable-Height Pallet Stand



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 your 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 <u>https://www.vestil.com/page-parts-request.php</u>.

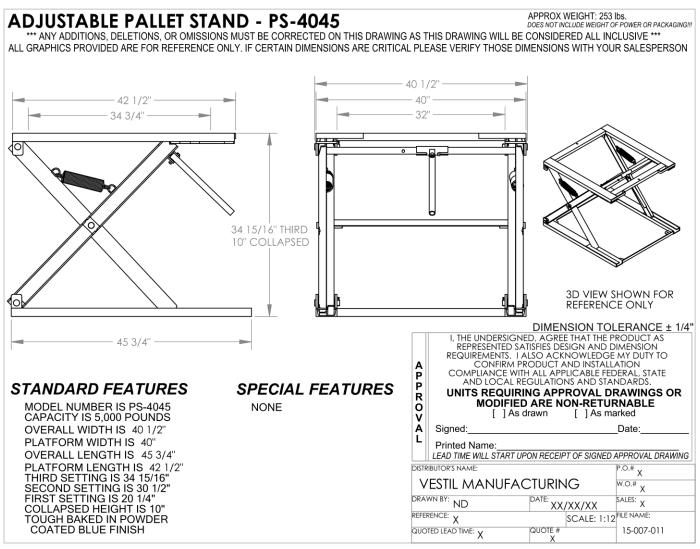
Electronic Copies of Instruction Manuals

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

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SPECIFICATIONS

Specifications documents for PS-series adjustable (height) pallet stands are provided on Vestil's website. To access the appropriate specifications document, navigate to the Adjustable Pallet Stands webpage at https://www.vestil.com/product.php?FID=278. Click the Product Specifications Table drop-down menu bar under Model Specific Details partway down the page. Scroll the page to the entry for the model you purchased and click the button in the column titled PDF that looks like a yellow pencil inside a blue box. A PDF file will open. This file is the specifications document. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specifications document for model PS-4045.



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.

A 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.
A 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 crane.

SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products. However, no manual can address every conceivable risk. The most effective way to avoid injury is to exercise sound judgment while assembling, using, inspecting, or maintaining your pallet stand. **Keep a copy of this manual with the device at all times.** For example, put the copy inside a plastic pouch and attach the pouch to the frame.

A WARNING

Material handling is dangerous and could result in serious personal injuries. **Read and understand the entire manual before assembling**, **using or servicing the pallet stand**. Read the manual whenever necessary to refresh your understanding of recommended use, inspection and maintenance procedures.

• DO NOT install the stand outdoors or in corrosive environments. ONLY install this product on compacted, improved surfaces (e.g. concrete) that are level and even. The surface must be capable of easily supporting the combined weight of the stand and a full capacity load. Attach the pallet stand to a concrete surface with 1/2" anchor bolts that are at least 4" long before using the stand for the first time.

• DO NOT use the stand unless it is in <u>SATISFACTORY CONDITION</u>. Inspect the unit as described in the <u>INSPECTION</u> instructions on p. 7. DO NOT use the stand unless it passes every part of the inspection or until it is restored to satisfactory condition.

- DO NOT use the pallet stand to lift people.
- DO NOT stand on or climb onto the stand.
- Always watch the stand carefully while applying a load to it.

• Avoid pinch points. Pinch points are created as the table rises and lowers do to the pivoting motion of the scissor legs. NEVER reach into or put any part of your body between the scissor legs.

• Always apply the <u>LOADING & UNLOADING THE PALLET STAND</u> instructions on p. 4. Center and evenly distribute all loads applied to it. The top of the stand should not move as weight is applied to it. Watch for movement and listen for unusual noises. Remove the unit from service if you observe anything abnormal.

• DO NOT apply loads to this table on broken or damaged pallets. Examine each pallet before applying it to the stand to confirm that no nails protrude from the surfaces and that all boards are intact. A damaged/broken pallet might break while on the stand. A damaged pallet could interfere with carousel rotation (stand model PS-4045CA). Sudden stops while rotating the tabletop can cause loads to shift or fall.

• To remove a load from the stand, lift it high enough that it clearly is no longer in contact with the top of the stand before backing away from the table.

• (Pallet stands equipped with caster kit option PS-RF-CK) If the stand must be moved, completely unload it first. Always lock both caster locks (see <u>FIG. 3</u> on p. 5) whenever the stand is loaded or in storage.

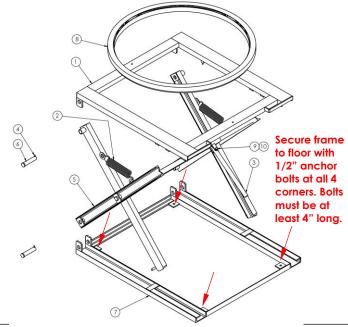
- DO NOT leave loads applied to the stand for long periods of time.
- DO NOT use this stand UNLESS all labels are in place & readable. See <u>LABELING DIAGRAM</u> on p. 8.

• DO NOT modify this product in any way without written approval from Vestil. Unapproved modifications automatically void the <u>LIMITED WARRANTY</u> (see p. 9) & might make it unsafe to use.

FIG. 1: PS-4045 EXPLODED VIEW AND BILL OF MATERIALS

	ltem	Part no.	Description	Qty.
	1	15-514-012	WELDMENT, FRAME, BASE	1
	2	15-510-009	SUBASSEMBLY, LEGS	1
	3	15-514-011	FRAME, TOP ASSEMBLY	1
	4	15-146-001	SPRING, EXTENSION, W/FULL LOOP, 13.57#/IN	2
	5	15-025-002	handle, adjusting	1
	6	33-112-023	PIN, CLEVIS	4
	7	65078	EXTENDED PRONG COTTER PIN, ZINC FINISH, 1/8'' x 1 1/2''	4
Image: Secure frame to floor with 1/2"	8	11112	3/8-16 x 2 1/4 LONG HHCS, GRADE A	1
anchor bolts at all 4 corners.	9	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8''-16	1
Bolts must be at least 4" long.	10	15-113-002	Spacer	4

FIG. 2: PS-4045-CA EXPLODED VIEW AND BILL OF MATERIALS



ltem	Part no.	Description	Qty
1	15-514-011	Frame, tabletop assembly	1
2	15-146-001	Spring	2
3	15-025-002	Handle, height adjustment	1
4	65078	Extended prong cotter pin, zinc finish, $\frac{1}{8}$ " x $\frac{1}{2}$ "	4
5	15-510-009	Scissor legs, subassembly	1
6	33-112-023	Pin, axle	4
7	15-514-012	Frame, base assembly	1
8	20-001-015	Carousel, assembly:	
	20-514-015	a. Weldment, inner ring	1
	20-013-022	b. Deck, outer retaining ring	1
	20-110-006	c. Roller bearing	1
	68083	d. E-clip, steel, for ⁵ /8" shaft	1
9	11112	³ / ₈ " – 16 x 2 ¹ / ₄ " HHCS bolt	1
10	37024	³ /8" – 16 grade 2 zinc finish lock nut	
11	15-113-002	Spacer	4

ADJUSTING THE HEIGHT OF THE PALLET STAND

A WARNING

DO NOT adjust the height of the tabletop while the stand is loaded. Completely unload the stand before adjusting the height.

PS-4045 series pallet stands can be adjusted between **4 configurations**: 1) fully lowered (for storage only); 2) Low height setting; 3) Intermediate height setting; and 4) Maximum height setting.

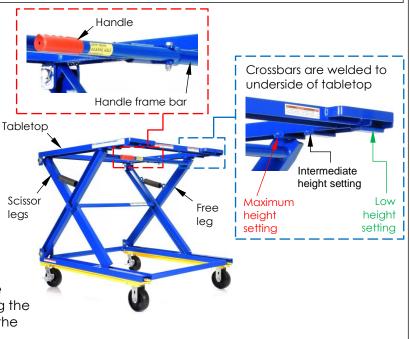
Adjust the height of the tabletop by grabbing the red handle grip and pivoting the handle until it is perpendicular to the handle frame bar. While holding the handle, lift the tabletop. Use the handle to adjust the position of the scissor legs as necessary; then lower the tabletop. There are triangular notches in the tops of the free legs. The selected adjustment cross bars must seat into the notches in the free legs. When the adjustment is finished, fold the handle against the handle frame bar.

Put the stand into the **fully lowered/storage configuration** by holding the handle and lifting the tabletop. Use the handle to lower the legs to the base frame.

LOADING & UNLOADING THE PALLET STAND

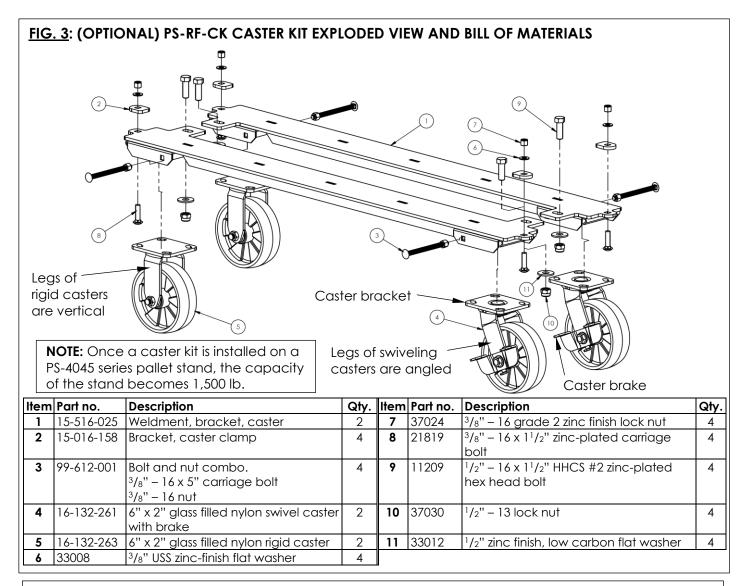
Before applying a palletized load to the stand, make sure that the load is centered on the pallet. Gently apply the pallet to the top of the stand. Center the pallet on the top of the stand. Neither the pallet nor the load should overhang the top of the stand.

Be cautious whenever removing a loaded pallet from the stand. Insert the forks of your lift truck through the pallet and slowly raise them. Continue to raise the forks until the top of the stand is several inches below the bottom of the pallet before backing away from the table.



Centerline of width nat the o of the illet nor rand. Insert below the

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(OPTIONAL) CASTER KIT INSTALLATION INSTRUCTIONS

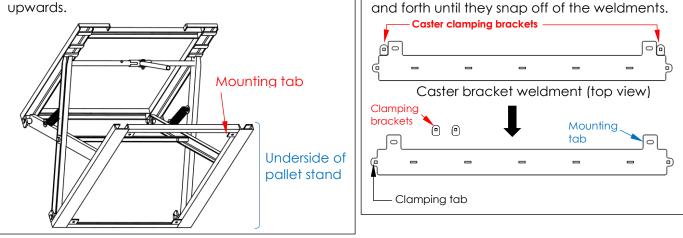
Refer to <u>FIG. 3</u> for parts identifications. Numbers in parentheses correspond to item numbers in the bill of materials.

2. When you receive the caster kit, the caster

clamping brackets (2) will still be attached to

the caster bracket weldment (1). Use a pair of pliers to bend the mounting brackets back

1. To install the optional caster kit, first lower the tabletop completely to put the pallet stand into the collapsed/storage configuration. Then, overturn the stand so that the bottom of the frame is facing upwards.



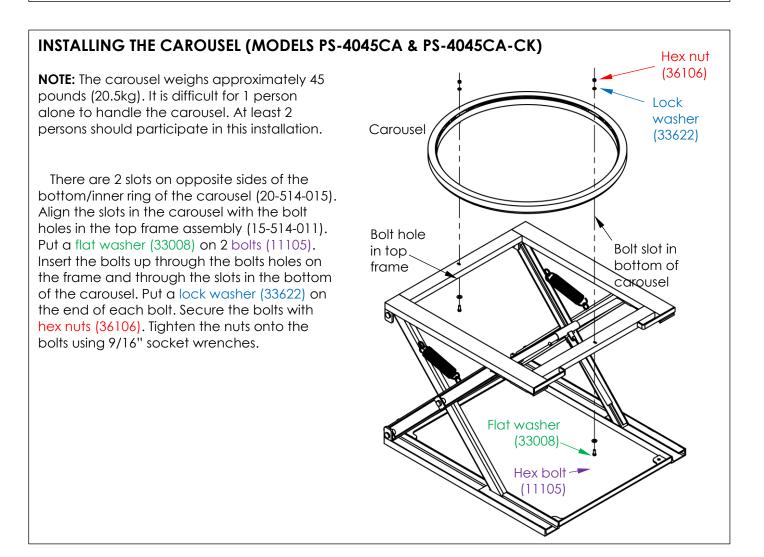
3. Fasten the weldments (2) to the bottom of the pallet stand.

- a. Align the mounting tabs on the underside of the stand with the mounting tabs on the caster bracket weldments.
- b. Then, insert hex head bolts (9) through the tabs and secure the bolts with flat washers and lock nuts (10 & 11).
- 4. Attach the clamping brackets.
 - a. Insert 1¹/₂" carriage bolts up through each clamping tabs (see Step 2 on <u>p. 5</u>) of both caster weldments (1).



nut combo

- b. Put a clamping bracket onto the end of each bolt. The flat end of the brackets should overlap the base frame.
- c. Secure the bolts with flat washers (6) and lock nuts (7).
- 5. Attach the casters.
 - a. Install the caster bracket of a caster into each of the 4 caster receivers as diagrammed above (swivel casters in back; rigid casters in front).
 - b. Insert a 5" carriage bolt (3) bolt through the bolts holes in each of the caster receivers. Tighten the corresponding lock nut on the end of the bolt to secure the caster inside its receiver.



RECORD OF SATISFACTORY CONDITION (THE "RECORD")

After anchoring the pallet stand to the floor with appropriate hardware (1/2" x at 4" long anchor bolts) and before using it for the first time, make a record describing its appearance and operation. Thoroughly photograph the pallet stand from multiple angles. Include photos of all welds, anchor points, the height adjustment cross bars (see <u>ADJUSTING THE HEIGHT OF THE PALLET STAND</u> on p. 4), the handle and handle frame bar, and each label. Adjust the height of the tabletop to each of the 4 height settings. Describe how much effort is required to adjust the height. If your pallet stand includes a manual carousel, turn the carousel clockwise and counterclockwise. Describe the sound of the carousel. How much force is required to turn it? Does the carousel wobble? Collect all photographs and writings in a file. Mark the file appropriately to identify it. This file is a record of the pallet stand in satisfactory condition. Compare the results of all inspections to this *RECORD* to determine if the lift table is in satisfactory condition. Do not use the lift table unless it is in satisfactory condition.

INSPECTIONS & MAINTENANCE

NOTICE

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

- Always use this product in accordance with the instructions in this manual.
- Periodically lubricate moving parts and pivot points.
- Keep the product clean & dry at all times.

• Only use approved replacement parts. To order replacement/spare parts for this device, contact the factory.

If any of the inspections described below reveal problems with the stand, remove it from service and tag it "Out of Service". Restore the unit to <u>SATISFACTORY CONDITION</u> before using it again.

A. Before <u>each</u> use, inspect the following components. Each component must be in normal operating condition. To establish normal operating condition, make a thorough record of the appearance of the various parts of the stand when you first receive it. Compare later observations to this record to determine whether the machine is in normal operating condition.

- 1. Frame: examine the base, scissor legs, tabletop, and carousel (if equipped with this option). Look for damaged welds, warps, cracks, or other deformations.
- 2. Casters (only units equipped with caster kit option PS-RF-CK): examine each caster. Confirm that casters are not severely worn, that the wheels rotate freely, that both swivel casters swivel properly, and that the brakes firmly engage the wheels.
- 3. Springs: The springs should stretch uniformly and equally, and should resist movement of the legs. Apply the load/pallet to the stand. Listen for unusual sounds and watch for unusual movement. If you notice anything atypical, unload the stand and determine the cause of the issue.
- 4. Fasteners: check nuts and bolts. Make sure all fasteners are tightly connected.
- 5. Roller bearings (only units equipped with carousel option): rotate the carousel. Watch and listen to the carousel as it rotates. If unusual noise is produced, or if the carousel binds, wobbles, or lurches, remove it and examine the roller bearings. Rotate each bearing to determine if it requires lubrication. Replace all bearings that are significantly worn. Clean the underside of the carriage where the bearings make contact with it to remove debris that might interfere with bearing movement.
- 6. Surface coating: Inspect the paint/powdercoat. Clean all areas where the surface coating is damaged (chipped, missing, etc.) with soap and water. Dry the affected areas and apply touchup paint.
- 7. Labels: Make sure that every label is in place, undamaged, and easily readable.
- B. At least once per month:
 - 1. Clean the entire stand: Remove dirt and other matter from all surfaces with a mild soap and water solution.
 - 2. Lubricate pivot points as necessary.

LABELING DIAGRAM

The unit should be labeled as shown in the diagram. However, content and location of each label are subject to change. Replace all labels that are damaged, missing, or not easily readable (e.g. faded). Order replacement labels by contacting the <u>TECHNICAL SERVICE AND</u> <u>PARTS DEPARTMENT</u> online at <u>https://www.vestil.com/page-parts-request.php</u>. 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.



C: Label 261

NOTICE	ΝΟΤΑ	AVIS	HANDLE BAR BARRA BARRE DE MANOEUVRE
OPERATING INSTRUCTIONS To adjust height engage handle bar and lift on either lifting handle to engage positive locking device.	INSTRUCCIONES DE OPERACIÓN Para ajustar la altura encaje la barra de manejo y eleve la barra de elevación para que el sistema de cierre se encaje.	INSTRUCTIONS DE FONCTIONNEMENT Pour ajuster la hauteur, engager la barre de manœuvre et soulever une ou l'autre des poignées d'élevation afin d'engager le blocage de sécurité.	LIFTING HANDLES LIFTING HANDLES BARRAS DE ELEVACIÓN PORIORES DELEVACIÓN PORIORES DELEVACIÓN

D: Label 658

WARNING	ADVERTENCIA	
DISTRIBUTE LOAD EVENLY	No cargue mas de la capacidad tasada DISTRIBUYA LA CARGA A NIVEL	Ne pas utiliser avec une charge instable NE PAS CHARGER au-delà du débit nominale DISTRIBUER la charge régulièrement NE PAS VOUS ASSEOIR OU VOUS PROMENER sur le chariot

E: Label 213

	ADVERTENCIA		
Stand must be level and stable	El soporte debe ser el nivel y estable		
Do not load beyond rated capacity	No cargue más allá de la capacidad calculada		
Center and Distribute load evenly	El centro y Distribuye laod regularmente 213 rev 0111		

F: Label 262		
GRIP HERE		
AGARRE AQUI		
SAISIR ICI 262		

G: Label 641

	A ATENCIÓN	ATTENTION	
Capacity reduced to 1,500 lbs.	Capacidad reducida a 1,500 lbs.	Capacité réduite à 680 kg américaines	
when equipped with caster option.	cuando equipado con la opcion de rueda.	quand équipée avec option de roulettes.	
DO NOT move when loaded.	No mueva cuando este cargado.	NE PAS DÉPLACER chargée.	

H: Label 204 (not relevant if unit equipped with caster kit)

A WARNING	ADVERTENCIA	AVERTISSEMENT
SECURE FRAME	ASEGURE EL	FIXER SOLIDEMENT 204 Rev 11/10
TO FLOOR	BASTIDOR AL PISO	LE CADRE AU PLANCHER

J: Label 212 (relevant if equipped with caster option

A WARNING	ADVERTENCIA	
Immobilize by applying all caster	Inmovilice aplicando todos los frenos de	Immobiliser en appliquant tous les freins des roulettes
brakes and/or floor locks when in	las ruedas y / o bloqueos del piso cuando	et / ou les verrous de plancher lors de l'utilisation, du 212
use, loading, and unloading.	esté en uso, cargando y descargando.	chargement et du déchargement. Rev 0920

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>1 year</u>. For wearing parts, the warranty period is <u>90</u> <u>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 not 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 code or standard is not a defect.

