

Vestil Manufacturing Corp.

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LAD-MM Series Mobile Ladder Stands **Instruction Manual**



Receiving instructions:

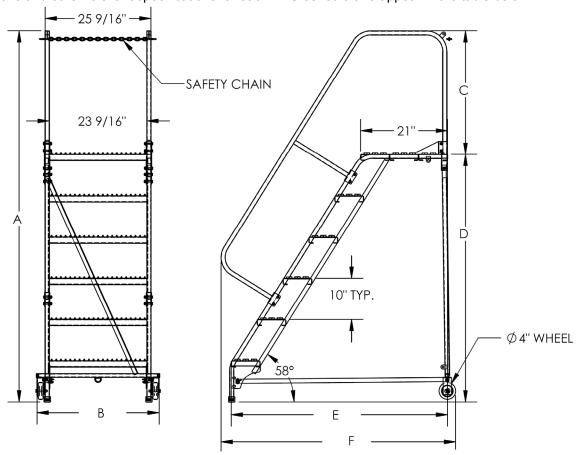
After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

NOTE:

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

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<u>Product Specifications by Model</u>: Dimensions and other relevant specifications for each FHS-series crane appear in the table below.



Model	Number of steps	A: Overall height	B: Overall width	C: Railing height	D: Platform height	E: Usable length	F: Overall length	Step slope	Capacity	Net Weight
LAD-MM-2-P	2	50"	29 ¹ / ₂ "	30"	20"	27 ¹ / ₄ "	38 ¹ / ₂ "	58°	350 lb.	69 lb.
LAD-MM-3-P	3	60"	29 ¹ / ₂ "	30"	30"	33 ¹ / ₂ "	38 ⁷ / ₁₆ "	58°	350 lb.	82 lb.
LAD-MM-4-P	4	70"	29 ¹ / ₂ "	30"	40"	39 ³ / ₄ "	42 ⁵ / ₈ "	58°	350 lb.	100 lb.
LAD-MM-5-P	5	80"	29 ¹ / ₂ "	30"	50"	46"	49 ³ / ₄ "	58°	350 lb.	119 lb.
LAD-MM-6-P	6	90"	29 ¹ / ₂ "	30"	60"	52 ¹ / ₄ "	56 ¹¹ / ₁₆ "	58°	350 lb.	135 lb.
LAD-MM-7-P	7	100"	29 ¹ / ₂ "	30"	70"	58 ¹ / ₂ "	62 ³ / ₈ "	58°	350 lb.	150 lb.
LAD-MM-8-P	8	110"	29 ¹ / ₂ "	30"	80"	64 ³ / ₄ "	68 ⁵ / ₈ "	58°	350 lb.	169 lb.
LAD-MM-9-P	9	120"	29 ¹ / ₂ "	30"	90"	71"	74 ⁷ / ₈ "	58°	350 lb.	185 lb.
LAD-MM-10-P	10	130"	29 ¹ / ₂ "	30"	100"	77 ¹ / ₄ "	81 ¹ / ₈ "	58°	350 lb.	202 lb.
LAD-MM-11-P	11	140"	32"	30"	110"	83 ¹ / ₂ "	87 ³ / ₈ "	58°	350 lb.	222 lb.
LAD-MM-12-P	12	156"	32"	36"	120"	89 ³ / ₄ "	93 ¹ / ₄ "	58°	350 lb.	247 lb.
LAD-MM-2-G	2	50"	29 ¹ / ₂ "	30"	20"	27 ¹ / ₄ "	38 ¹ / ₂ "	58°	350 lb.	70 lb.
LAD-MM-3-G	3	60"	29 ¹ / ₂ "	30"	30"	33 ¹ / ₂ "	38 ¹ / ₂ "	58°	350 lb.	84 lb.
LAD-MM-4-G	4	70"	29 ¹ / ₂ "	30"	40"	39 ³ / ₄ "	43 ⁵ / ₈ "	58°	350 lb.	101 lb.
LAD-MM-5-G	5	80"	29 ¹ / ₂ "	30"	50"	46"	49 ³ / ₄ "	58°	350 lb.	121 lb.
LAD-MM-6-G	6	90"	29 ¹ / ₂ "	30"	60"	52 ¹ / ₄ "	56 ¹¹ / ₁₆ "	58°	350 lb.	137 lb.
LAD-MM-7-G	7	100"	29 ¹ / ₂ "	30"	70"	58 ¹ / ₂ "	62 ³ / ₈ "	58°	350 lb.	152 lb.
LAD-MM-8-G	8	110"	29 ¹ / ₂ "	30"	80"	64 ³ / ₄ "	68 ⁵ / ₈ "	58°	350 lb.	172 lb.
LAD-MM-9-G	9	120"	29 ¹ / ₂ "	30"	90"	71"	74 ⁷ / ₈ "	58°	350 lb.	188 lb.
LAD-MM-10-G	10	130"	29 ¹ / ₂ "	30"	100"	77 ¹ / ₄ "	81 ¹ / ₈ "	58°	350 lb.	205 lb.
LAD-RF-11-G	11	140"	32"	30"	110"	83 ¹ / ₂ "	87 ³ / ₈ "	58°	350 lb.	225 lb.
LAD-RF-12-G	12	156"	32"	36"	120"	89 ³ / ₄ "	93 ¹ / ₄ "	58°	350 lb.	250 lb.

Signal words:

This manual classifies personal injury risks and situations that could lead to property damage with SIGNAL WORDS. These signal words announce an associated safety message. The reader must understand that the signal word chosen indicates the seriousness of the described hazard.

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.

AWARNING

Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.

ACAUTION

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.

Hazards of Improper Use:

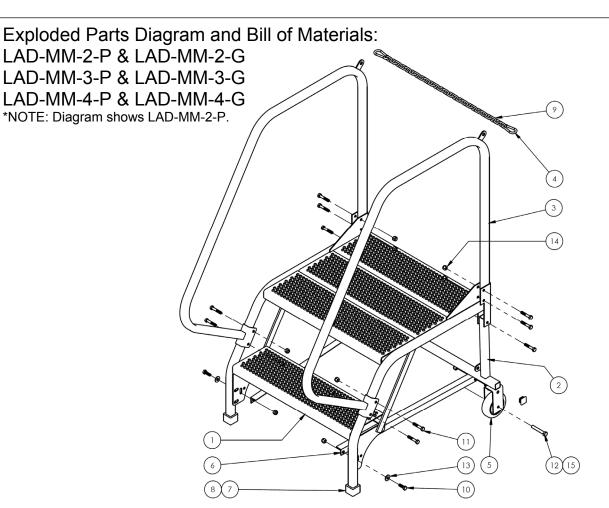
Vestil strives to identify all foreseeable hazards associated with the use of its ladders. However, no manual can address every possible risk. The most effective means for avoiding injury is to apply sound judgment whenever using this ladder. Read all of the instructions prior to using the ladder to familiarize yourself with assembly, use and maintenance practices.

AWARNING If this product is used improperly or carelessly, the user and/or bystanders might sustain serious personal injuries or could even be killed. ALWAYS use the product properly:

- Read and understand the entire manual before assembling, using or servicing the ladder.
- DO NOT exceed the rated load of the ladder. The total weight applied to the ladder (weight of the user plus tools, etc.) must not be greater than the rated load.
- DO NOT use the ladder on uneven or unstable surfaces. ONLY use the ladder on level, even surfaces
- Make sure that you will not contact overhead objects with either your body or with the ladder during use.
- Always unload the ladder before leaving it unattended.
- Remove foreign matter, like mud or grease, from your shoes before walking on the ladder.
- ALWAYS face the stairs and use the handrails while ascending and descending the ladder.
- DO NOT increase the height of the platform or of a step by standing on other objects placed on the ladder.
- Inspect the ladder as described in "Inspections & Maintenance" on p. 12. DO NOT use the ladder unless it is in normal condition. ONLY use manufacturer-approved replacement parts if repairs are necessary.
- DO NOT use the ladder if the caps on the front legs are significantly worn (see exploded parts diagrams on p. 4-8). Caps should prevent the ladder from sliding. If either or both caps are too worn to function properly, replace them before using the ladder again.
- ONLY use the ladder to access objects that you cannot otherwise reach. DO NOT use the ladder for any other purpose. For instance, DO NOT use the ladder as a <u>storage rack</u> or as a way to <u>move people or material</u>. Always unload the ladder before leaving it unattended.
- DO NOT lean or reach over the sides of the ladder. Position the ladder as close to the work as possible.
- DO NOT attempt to move the ladder while someone is using it.
- DO NOT use the ladder to transport people or objects.
- DO NOT remove or obscure any label. Each label must be readable, undamaged, and present in the appropriate location (see "Labeling diagram" on p. 12).
- DO NOT modify this ladder! Unauthorized modifications automatically void the limited warranty (see p. 13) and might make the ladder unsafe to use.

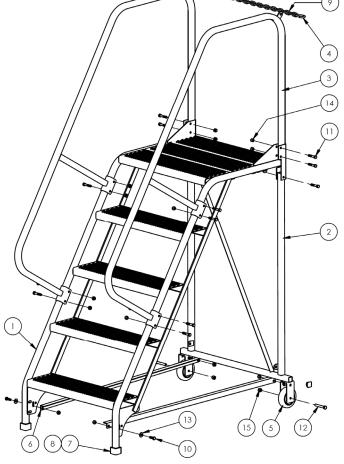
NOTICE This product must be properly maintained to function properly. (See "Inspections & Maintenance", p. 12.)

- Keep the ladder clean & dry.
- Periodically check the ladder frame. The ladder should be solid, square, and free of rust and corrosion.
- Lubricate the wheel bolts whenever necessary for the wheels to rotate freely.
- The ladder stand is designed for both indoor and outdoor use. However, it should be stored indoors when not in use.

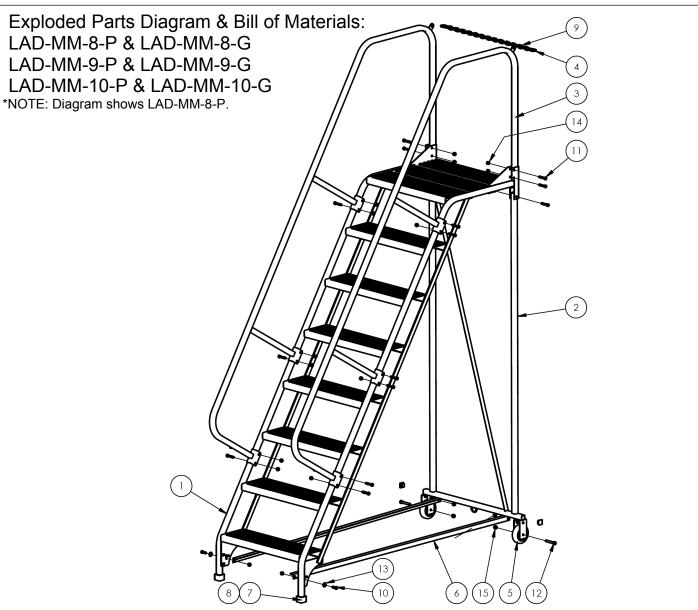


Item	Part no.	Description	Qty.
		Weldment, step frame:	
	44-647-053	LAD-MM-2-P	1
	44-647-054	LAD-MM-2-G	1
1	44-647-053	LAD-MM-3-P	1
	44-647-052	LAD-MM-3-G	1
	44-647-006	LAD-MM-4-P	1
	44-647-010	LAD-MM-4-G	1
		Weldment, back leg:	
2	44-514-299	2-step, 26" step: LAD-MM-2-P & LAD-MM-2-G	1
_	44-514-300	3-step, 26" step: LAD-MM-3-P & LAD-MM-3-G	1
	44-514-301	4-step, 26" step: LAD-MM-4-P & LAD-MM-4-G	1
3	44-524-059	Weldment, handrail	2
4	08-145-008	Snap hook, ¹ / ₄ "	2
5	16-132-009	Wheel, PP-4/1.25-W	2
6	44-014-332	Frame, base support	2
7	99-024-027	Square cap, 1" x 1", 60 Duro.	2
8	99-025-025	1" plastic plug	4
9	99-145-031	³ / ₁₆ " chain 24"	1
10	11055	Hex bolt, gr, A, zinc plated, ⁵ / ₁₆ "-18 x 1"	4
11	11060	Hex bolt, HHCS, ⁵ / ₁₆ "-18UNC x 1 ³ / ₄ "	10
12	11113	Hex bolt, gr. A, plain finish, $^3/_8$ "-16 x $2^1/_2$ "	2
13	33006	Flat washer, zinc plated, USS, ⁵ / ₁₆ "	4
14	37021	Nylon insert lock nut, gr. 2, zinc finish, 5/16"-18	14
15	37024	Nylon insert lock nut, gr. 2, zinc finish, 3/8"-16	2

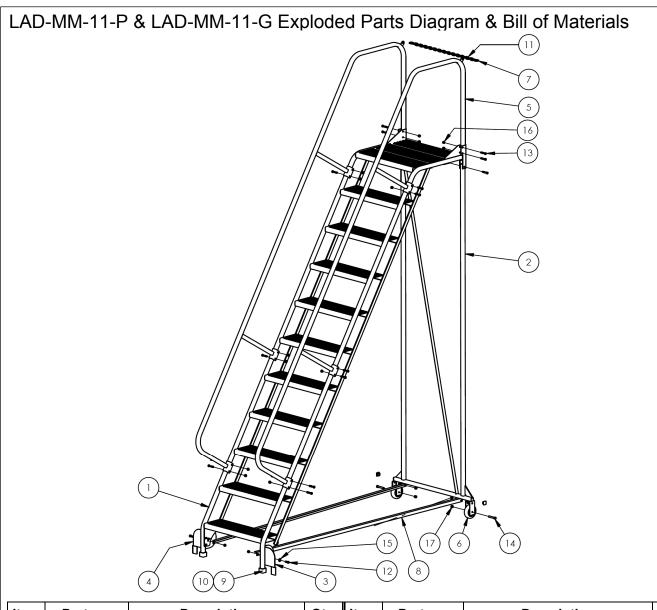
Exploded Parts Diagram & Bill of Materials: LAD-MM-5-P & LAD-MM-5-G LAD-MM-6-P & LAD-MM-6-G LAD-MM-7-P & LAD-MM-7-G *NOTE: Diagram shows LAD-MM-5-P.



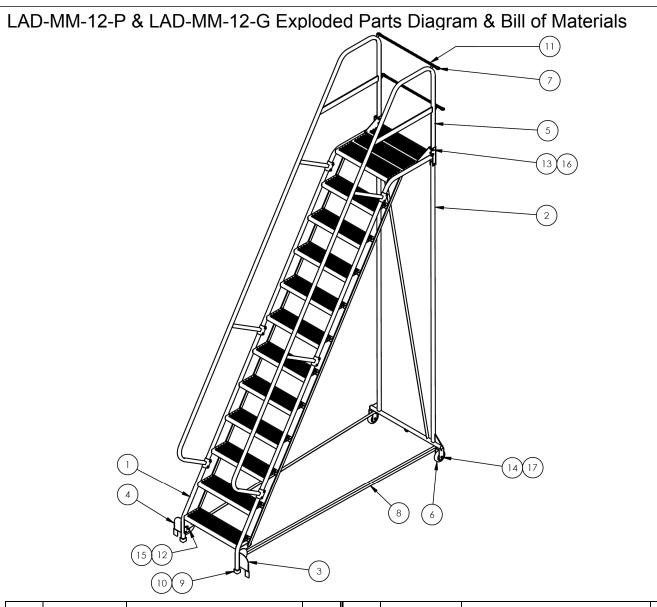
Item	Part no.	Description	Qty.				
		Weldment, step frame:					
	44-647-007	LAD-MM-5-P	1				
	44-647-011	LAD-MM-5-G	1				
1	44-647-008	LAD-MM-6-P	1				
	44-647-012	LAD-MM-6-G	1				
	44-647-009	LAD-MM-7-P	1				
	44-647-013	LAD-MM-7-G	1				
		Weldment, back leg:					
2	44-514-302	5-step, 26" step: LAD-MM-5-P & LAD-MM-5-G	1				
	44-514-303	6-step, 26" step: LAD-MM-6-P & LAD-MM-6-G	1				
	44-514-304	7-step, 26" step: LAD-MM-7-P & LAD-MM-7-G	1				
3	44-524-057	Weldment, handrail	2				
4	08-145-008	Snap hook, ¹ / ₄ "	2				
5	16-132-009	Vheel, PP-4/1.25-W					
6	44-014-320	rame, base support					
7	99-024-027	Square cap, 1" x 1", 60 Duro.					
8	99-025-025	1" plastic plug	4				
9	99-145-031	³ / ₁₆ " chain 24"	1				
10	11055	Hex bolt, gr, A, zinc plated, ⁵ / ₁₆ "-18 x 1"	4				
11	11060	Hex bolt, HHCS, ⁵ / ₁₆ "-18UNC x 1 ³ / ₄ "	14				
12	11113	Hex bolt, gr. A, plain finish, $^3/_8$ "-16 x $2^1/_2$ "	2				
13	33006	Flat washer, zinc plated, USS, 5/16"	4				
14	37021	Nylon insert lock nut, gr. 2, zinc finish, ⁵ / ₁₆ "-18	18				
15	37024	Nylon insert lock nut, gr. 2, zinc finish, ³ / ₈ "-16	2				



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
	Weldment, step frame: LAD-MM-8-P	1	7	99-024-027	Square cap, 1" x 1", 60 Duro.	2	
	44-647-061	-	1	8	99-025-025	1" plastic plug	4
1	44-647-060 44-647-063	LAD-MM-8-G LAD-MM-9-P	1	9	99-145-031	³ / ₁₆ " chain 24"	1
'	44-647-062	LAD-MM-9-G	1	10	11055	Hex bolt, gr, A, zinc plated, ⁵ / ₁₆ "-18 x 1"	4
	44-647-065 LAD-MM-10-P 44-647-064 LAD-MM-10-G	1	11	11060	Hex bolt, HHCS, ⁵ / ₁₆ "-18UNC x 1 ³ / ₄ "	18	
2	44-514-305	Weldment, back leg: LAD-MM-8-P & -G	1	12	11113	Hex bolt, gr. A, plain finish, ${}^{3}/_{8}$ "-16 x $2^{1}/_{2}$ "	2
	2 44-514-306 LAD-MM-9-P & -G 44-514-307 LAD-MM-10-P & -G	1 1	13	33006	Flat washer, zinc plated, USS, ⁵ / ₁₆ "	4	
3	44-524-082	Weldment, handrail	2			Nylon insert lock nut,	
4	08-145-008	Snap hook, 1/4"	2	14	37021	gr. 2, zinc finish, ⁵ / ₁₆ "-	22
5	16-132-009	Wheel, PP-4/1.25-W	2			Nylon insert lock nut,	
6	44-014-400	Frame, base support	2	15	37024	gr. 2, zinc finish, ³ / ₈ "-	2



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	44-647-067 44-647-066	Weldment, 11-step frame: LAD-MM-11-P LAD-MM-11-G	1	9	99-024-027	Square cap, 1" x 1", 60 Duro.	2
2	44-514-308	Weldment, back leg, 11- step, 26" step	1	10	99-025-025	1" plastic plug	4
3	44-514-310	Assembly, outrigger, right	1	11	99-145-031	³ / ₁₆ " chain 24"	1
4	44-514-311	Assembly, outrigger, left	1	12	11055	Hex bolt, gr, A, zinc plated, ⁵ / ₁₆ "-18 x 1"	4
5	44-524-085	Weldment, handrail	2	13	11060	Hex bolt, HHCS, ⁵ / ₁₆ "- 18UNC x 1 ³ / ₄ "	18
6	16-132-009	Wheel, PP-4/1.25-W	2	14	11113	Hex bolt, gr. A, plain finish, ${}^{3}/_{8}$ "-16 x $2^{1}/_{2}$ "	2
7	08-145-008	Snap hook, ¹ / ₄ "	2	15	33006	Flat washer, zinc plated, USS, ⁵ / ₁₆ "	4
8	44-014-403	Frame, base support	2	16	37021	Nylon insert lock nut, gr. 2, zinc finish, ⁵ / ₁₆ "-18	22
				17	37024	Nylon insert lock nut, gr. 2, zinc finish, ³ / ₈ "-16	2



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	44-647-069 44-647-068	Weldment, 12-step frame: LAD-MM-12-P LAD-MM-12-G	1	9	99-024-027	Square cap, 1" x 1", 60 Duro.	2
2	44-514-309	Weldment, back leg, 12- step, 26" step	1	10	99-025-025	1" plastic plug	4
3	44-514-310	Assembly, outrigger, right	1	11	99-145-031	³ / ₁₆ " chain 24"	2
4	44-514-311	Assembly, outrigger, left	1	12	11055	Hex bolt, gr, A, zinc plated, ⁵ / ₁₆ "-18 x 1"	4
5	44-524-086	Weldment, handrail	2	13	11060	Hex bolt, HHCS, ⁵ / ₁₆ "- 18UNC x 1 ³ / ₄ "	18
6	16-132-009	Wheel, PP-4/1.25-W	2	14	11113	Hex bolt, gr. A, plain finish, ${}^{3}/_{8}$ "-16 x $2^{1}/_{2}$ "	2
7	08-145-008	Snap hook, ¹ / ₄ "	4	15	33006	Flat washer, zinc plated, USS, ⁵ / ₁₆ "	4
8	44-014-404	Frame, base support	2	16	37021	Nylon insert lock nut, gr. 2, zinc finish, ⁵ / ₁₆ "-18	22
				17	37024	Nylon insert lock nut, gr. 2, zinc finish, ³ / ₈ "-16	2

Assembly Instructions:

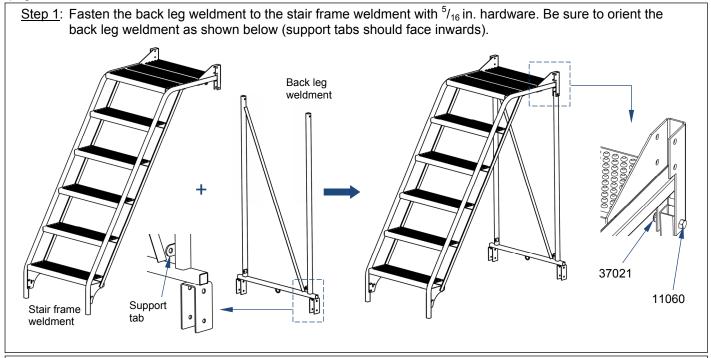
AWARNING Improper assembly might make the ladder unsafe to use.

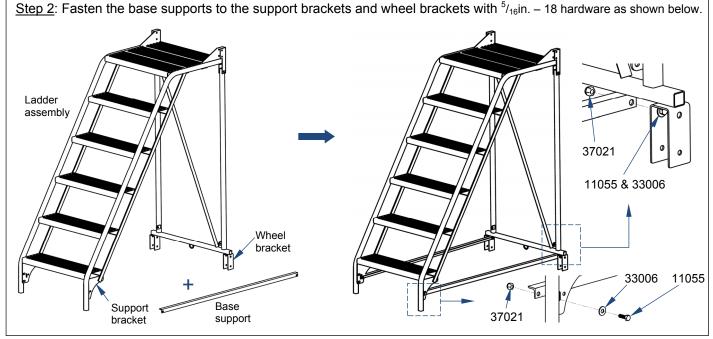
- Visually inspect all ladder components *prior to assembly*. Look at each part of the ladder immediately after you receive the package from the shipper. Look for damage that might have occurred during shipping. DO NOT assemble or use the ladder stand if you notice any damage to one or more of the steps or to any other structural element (step weldment, back leg weldment, base supports, and handrails) of the ladder. Using the ladder stand despite weakness of a frame member could result in serious personal injuries.
- DO NOT assemble the ladder by yourself. At least 2 people are needed for assembly.
- Read the entire instruction manual before assembling this ladder.
- DO NOT use the ladder if a wheel is damaged. Damaged wheels might cause the ladder to wobble or tip when used.

The following tools are necessary to assemble the ladder:

- 1. 2 crescent wrenches $(^5/_{16}"$ and $^3/_{8}"$)
- 2. Rubber mallet

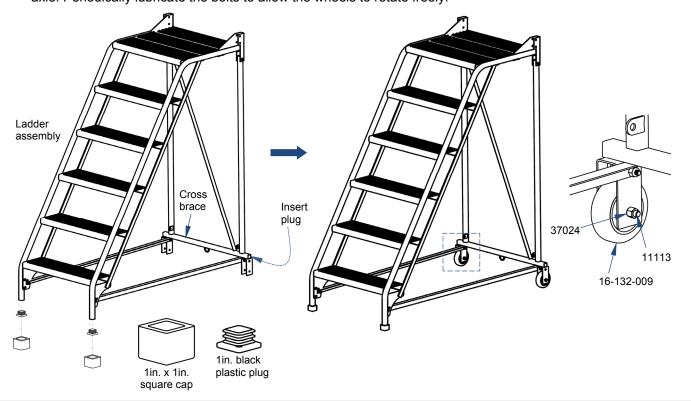
NOTE: Numbers in the diagrams and in parentheses () correspond to part numbers in the exploded views on pages 4-14.

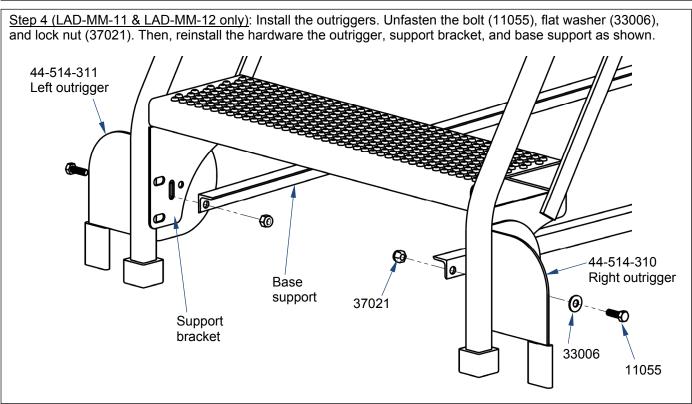


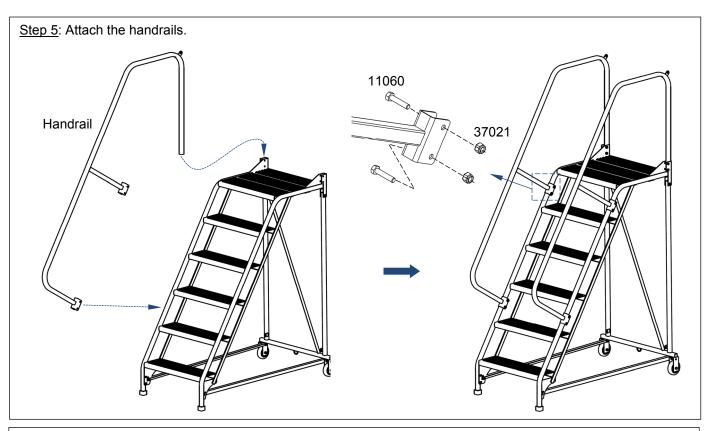


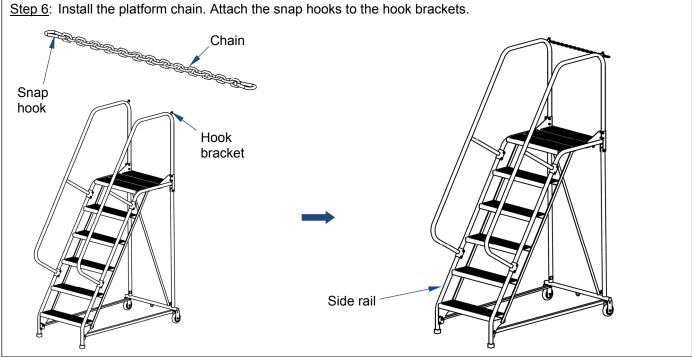
Step 3: Install the plugs, caps, and wheels.

- a) Install the plastic plugs and square caps in the leg tubes. First, press the 1in. plastic plug into the leg tubes. Then, press the square caps over the plugs and onto the ends of the legs. If necessary, use a rubber mallet to gently tap the plugs and caps into place.
- b) Press a plug into each end of the cross brace.
- c) Then, insert the wheels into the wheel brackets and install $^{3}/_{8}$ "-16 x $2^{1}/_{2}$ " bolts (11113). Secure the bolts with axle. Periodically lubricate the bolts to allow the wheels to rotate freely.









Using the ladder:

Before climbing the ladder, stand on the bottom step and confirm that the caps solidly contact the ground. The caps should prevent the front end of the ladder from moving.

To move the ladder, grasp either the handrails or the side rails and lift the front of the ladder. Ladders with more steps are heavier and therefore require more effort to move. Only attempt to move the ladder if you are able to comfortably lift it and can easily control it while balanced on its wheels.

Face the ladder and grasp the handrails while ascending or descending the steps. Do not lean against the handrails or the platform chain.

Inspections & Maintenance:

After assembling the ladder and before putting it into use, visually inspect the ladder. Make a written record that describes the condition and appearance of the steps, handrails, wheels, (leg) caps, base supports, back leg weldment, platform chain, and fasteners (bolts, nuts, etc.). This record establishes "normal condition" of the ladder. When conducting subsequent inspections, compare your observations to the written record to determine whether the ladder is in normal condition. Do not use the ladder unless it is in normal condition.

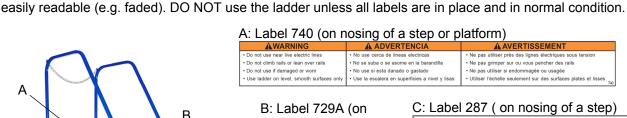
Regular inspections — **at least once per month inspect** the following items. Replace all parts that are damaged before using the ladder again. DO NOT continue to use the ladder if damage cannot be repaired.

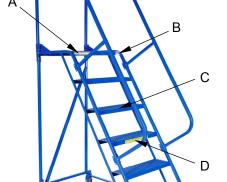
- Handrails, snap hooks, and platform chains: Inspect both handrails. Confirm that they are solidly fastened to
 the step weldment. Each handrail should be rigid and undamaged. Examine the platform chain and snap
 hooks. Confirm that they are securely fastened to the handrails and are in normal condition.
- Back leg weldment and wheels: Make sure that the back leg weldment is not bent, that the wheels are not severely worn, that they are vertical (not angled towards or away from the ladder) and roll smoothly. Examine the wheel brackets and hardware for damage. Tighten nuts and bolts, if necessary.
- Frame members (step weldment, back leg weldment, base supports, handrails) and all fasteners (bolts, nuts, pins): Inspect each frame member for damage like excessive wear, bends, and cracks. All frame pieces should be square, rigid, and free of rust and corrosion. Remove rust with steel wool or a metal bristle brush and apply touch-up paint to the affected area. Check the areas where frame members are bolted together. Check the areas around bolt holes for cracks, elongated bolt holes, etc
- Square (rubber) caps: Check the caps for cracks and excessive or uneven wear. Install replacement caps before returning the ladder to service.
- Outriggers (11 and 12 step models): Examine the outriggers. Both should be securely fastened to the step weldment. Both outriggers should make solid contact with the ground, i.e. the ladder should not be able to wobble. Confirm that the caps on the outrigger legs are in satisfactory condition.

The ladder should be labeled as shown in the diagram (below). Replace any label that is damaged, missing, or not

Maintenance: in addition to correcting issues discovered during inspections, maintain the ladder as described below.

- Clean the ladder to remove dirt and grime, especially from step surfaces.
- Lubricate bolts as necessary for the wheels to rotate freely.
- Apply touchup paint wherever the finish is damaged.





Labeling diagram:

DANGER

METAL CONDUCTS
ELECTRICITY!
DO NOT CONTACT LIVE WIRES, 750A

MODEL/MODÈLE

STATIC CAPACITY (evenly distributed)

LA CAPACIDAD CONSTANTE (distribuida uniformemente)

Kgs.

CAPACITÉ STATIQUE (distribuée régulièrement)

kgs.

SERIAL/SERIE/SÉRIE

287 REV 0812

D: Label 821 (on nosing of a step)

Rev. 11.8.2017

LIMITED WARRANTY

Vestil Manufacturing Corporation ("Vestil") warrants this Semi-Automatic Strapping Machine, model S-2001 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 <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 any of the following methods:

MailFaxEmailVestil Manufacturing Corporation(260) 665-1339sales@vestil.com2999 North Wayne Street, PO Box 507PhoneAngola, IN 46703(260) 665-7586

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 <u>original</u> <u>dynamic components</u>: motors, hydraulic pumps, electronic controllers, switches and cylinders. It also covers defects in <u>original</u> parts that wear under normal usage conditions ("<u>wearing parts</u>"), 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>. 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 <u>not</u> 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;
 - <u>Unauthorized modifications</u>: 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 t

