



ABACO MACHINES

OPERATION MANUAL

ONE STOP A-FRAME (OSA9458)



ABACO MACHINES (USA)

14508 S. Garfield Ave., Paramount, CA 90723, USA
Tel : 310-532-0366 Fax : 310-532-0499
Email : sales@abacomachines.com
Website : www.abacomachines.com

**APPLICABLE MODELS
of this ONE STOP A-FRAME:**

OSA9458

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Note: Please read this operation manual carefully before using the device.

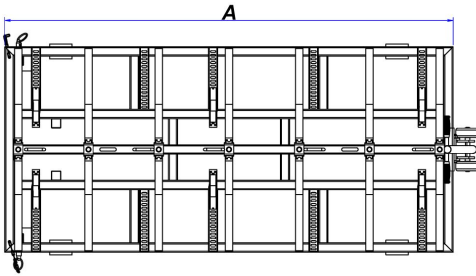
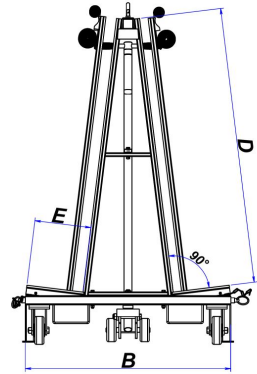
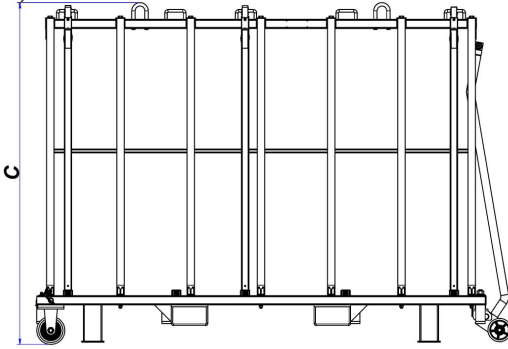
I. OVERVIEW:

- One Stop A-Frame OSA9458 is designed for transporting and storing stone slabs in job sites, warehouses, factories or construction sites.
- The surface of the A-frame has special rubber profiles to prevent the stone slabs from scratching or damaging.
- The stone slabs are to be placed and secured with ratchet securing bars to be duly fixed during transportation.
- Composition by separated parts, are convenient for assembly and transportation.

II. TECHNICAL SPECIFICATIONS:

- One Stop A-Frame OSA9458 includes of two main parts: a Base frame and a simple A-shaped frame. In addition, it has ratchet securing bars.
- The base frame is attached with two wheels, a pulling handle lever which can provide easy maneuvering in any direction.
- The ratchet securing bar shall fix the slabs being loaded by its strap and ratchet device.

1) Dimensions:



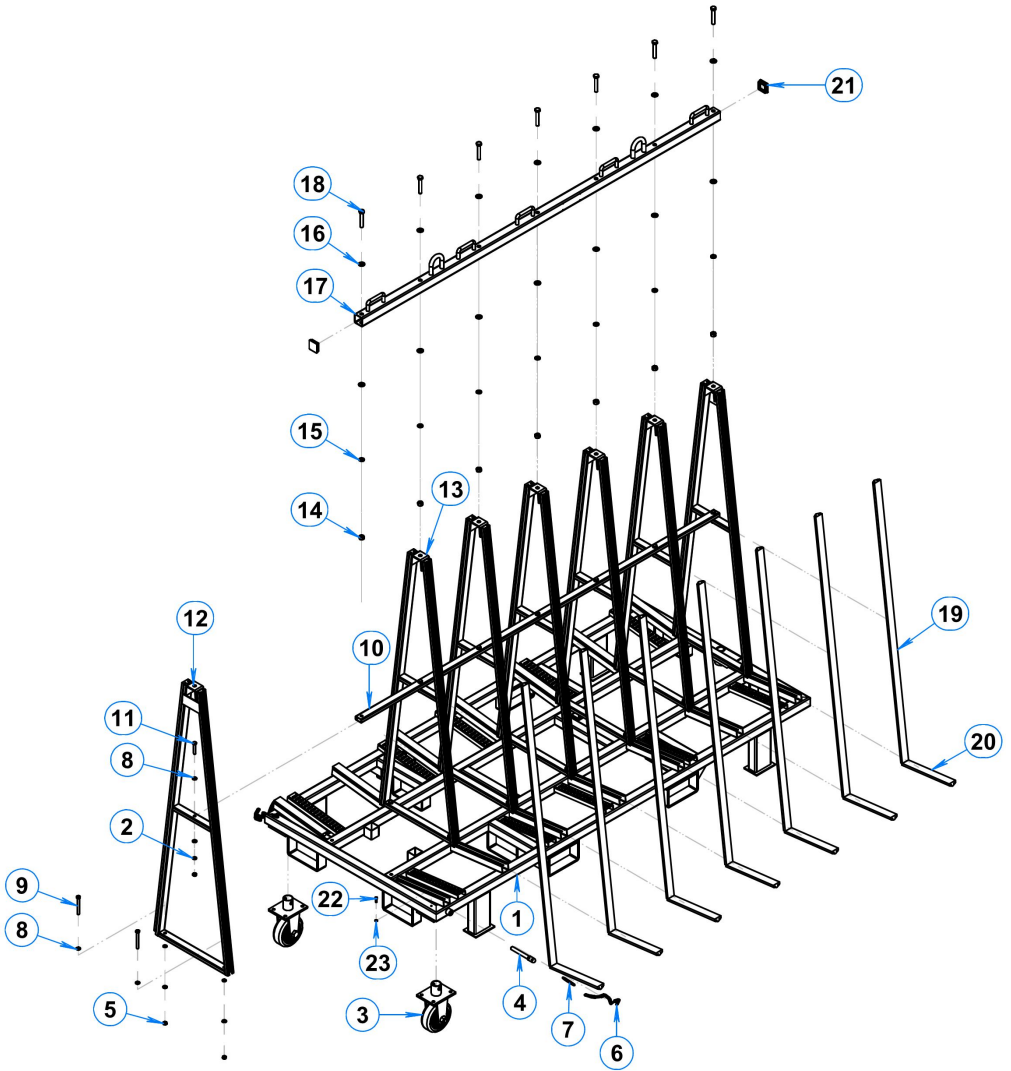
A	B	C
inches (mm)	inches (mm)	inches (mm)
94 1/2 (2400)	43 5/16 (1100)	72 7/16 (1840)

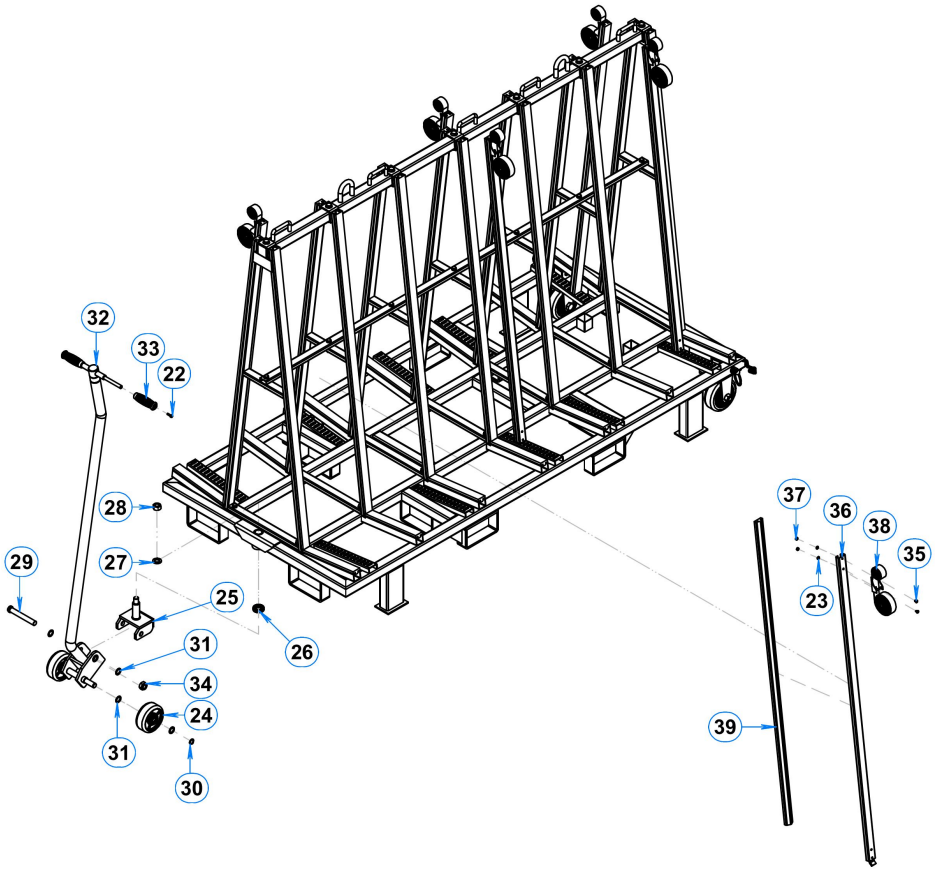
D	E	Net weight
inches (mm)	inches (mm)	lbs (kg)
58 1/8 (1477)	11 7/8 (302)	534 (242)

2) Permissible Work Load Limit (W.L.L.)

- Lifting with Fork Insert: 5500 lbs (2500 kg)
- Lifting with Eyelets: 5500 lbs (2500 kg)
- Rolling capacity: 4400 lbs (2000 kg)
- Stationary w/o casters: 8800 lbs (4000 kg)

3) Spare part list 1:





SPARE PART LIST

Pos.	Description	Qty.	Code
1	Base frame	1	OSA9458-01
2	Spring washer $\varnothing 10$	21	OSA9458-02
3	Caster wheel	2	OSA9458-03
4	Pin 1	2	OSA9458-04
5	Nut M10	21	OSA9458-05
6	Chian	2	OSA9458-06
7	Ring chain	2	OSA9458-07
8	Washer $\varnothing 10 \times \varnothing 20 \times 1$	42	OSA9458-08
9	Bolt M10x90	14	OSA9458-09
10	Bottom bar	1	OSA9458-10
11	Bolt M10x60	7	OSA9458-11
12	A-frame 1	2	OSA9458-12
13	A-frame 2	5	OSA9458-13
14	Nut M14	7	OSA9458-14
15	Spring washer $\varnothing 14$	7	OSA9458-15
16	Washer $\varnothing 14 \times \varnothing 28 \times 2$	14	OSA9458-16
17	Top bar	1	OSA9458-17
18	Bolt M14x80	7	OSA9458-18
19	Rubber strip 1	14	OSA9458-19
20	Rubber strip 2	14	OSA9458-20
21	Rubber cap	2	OSA9458-21
22	Allen bolt M6x20	4	OSA9458-22
23	Washer $\varnothing 6 \times \varnothing 14 \times 1.5$	14	OSA9458-23
24	Wheel $\varnothing 125 \times 50$	2	OSA9458-24

Pos.	Description	Qty.	Code
25	Wheel cluster 1	1	OSA9458-25
26	Bearing	1	OSA9458-26
27	Washer ø20	1	OSA9458-27
28	Nut M20	1	OSA9458-28
29	Pin 2	1	OSA9458-29
30	Circlip ø20x1.2	2	OSA9458-30
31	Washer ø20xø30x1	8	OSA9458-31
32	Wheel cluster 2	1	OSA9458-32
33	Rubber handle	2	OSA9458-33
34	Lock nut M20	1	OSA9458-34
35	Screw M6x10	12	OSA9458-35
36	Ratchet securing bar	6	OSA9458-36
37	Nut M6	12	OSA9458-37
38	Ratchet strap	6	OSA9458-38
39	Rubber strip 3	6	OSA9458-39

III. INSTRUCTIONS FOR USE:

1. Caution:

a. Before operation:

- Make sure that the One Stop A-Frame is placed on a flat and smooth surface, not on a wavy or rough surface.
- Confirm all the welded joints are free from any defects or damage, such as separation, crack, and so forth.
- Make sure that all the bolts are securely tightened.
- Use appropriate PPE (Personal Protective Equipment) to protect against injury.
- Check the rubber-lined, ratchet straps and casters in the sound conditions. If they are any damage or defect, replace with new ones.
- Lubricate the casters.

b. During operation:

- The slabs should be restrained in a proper manner during transporting.
- Check the casters regularly.
- The slabs should be evenly loaded on both sides of the One Stop A-frame.
- Make sure the weight of the slabs being placed is within the specified W.L.L (Refer to the table at page 2.)
- Follow the steps and instructions in the operation manual.
- For your own safety, follow all the applicable laws and regulations in your area.

c. After operation:

- Clean the One Stop A-Frame thoroughly after each use.
- Lubricate casters.
- Store in a well-ventilated place, avoid places with high heat or humidity.

2. Device usage:

2.1. Place the stone slabs:

Step 1: Place the stone slabs on the A-frame (figure 1.1).

Note: The slabs should be evenly loaded on both sides of the A-frame.

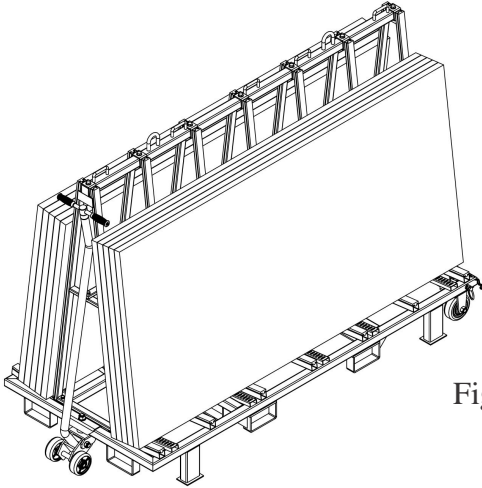


Figure 1.1

Step 2: Install the ratchet securing bars to restrain the slabs (figure 1.2).

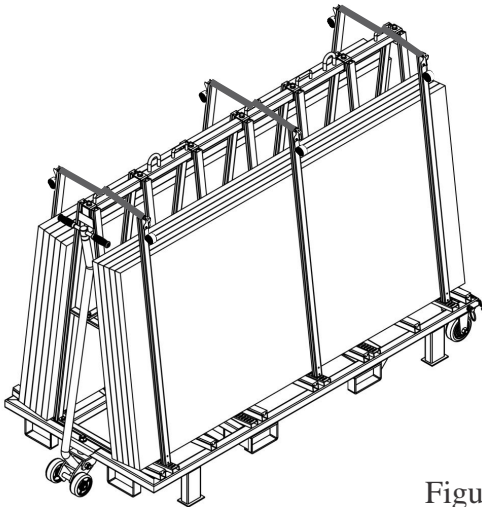


Figure 1.2

2.2. Move the One Stop A-frame:

a) Pulling the One Stop A-frame (Figure 2.1).

If too heavy to pull, ask somebody to help pushing the One Stop A-frame.

Warning: Do not try hard to pull.

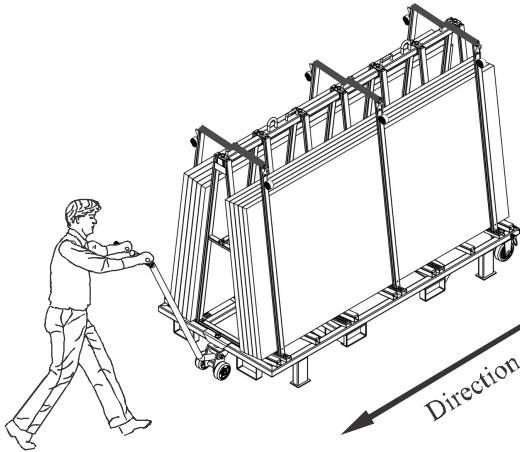


Figure 2.1

b. Move the A-frame by forklift truck or crane.

Step 1: Remove 2 casters (figure 2.2).

Lift the A-frame by forklift truck, then remove the 2 casters and put them inside the A-frame as shown by figure 2.1.

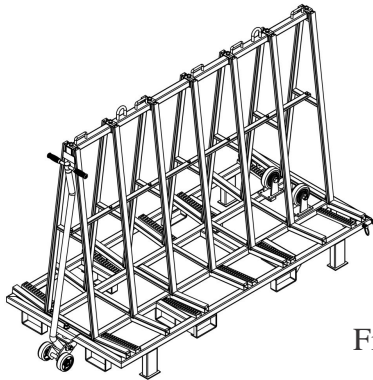


Figure 2.2

Step 2: Place the stone slabs (figure 2.3).

- Install ratchet securing bars (figure 2.3) by setting the bottom end to the groove on the base frame, then hook the strap end on the top of the A-frame and tighten the ratchet. (Refer to appendix p.10.)

Note: The slabs should be evenly loaded on both sides of the A-frame.

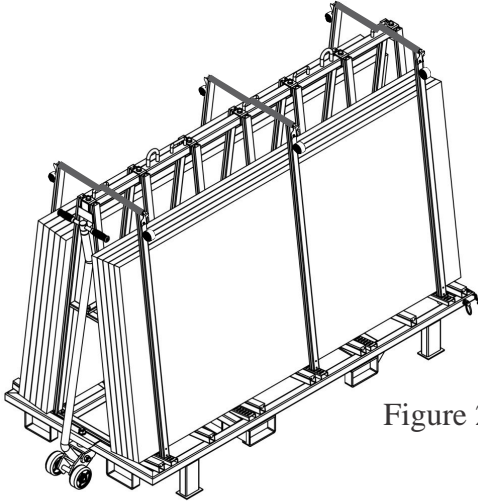


Figure 2.3

Caution: Before start moving the stones, confirm that the stone slabs are neatly loaded and ratchet straps are all firm and tight.

Step 3: Move the A-frame by a forklift truck in the following manner. Be sure to remind the W.L.L. is within the specified limit (p.2).

In case of using forklift boom, mind the distance from forklift because of the principle of the lever, the longer the distance from the pivot the less weight capacity.

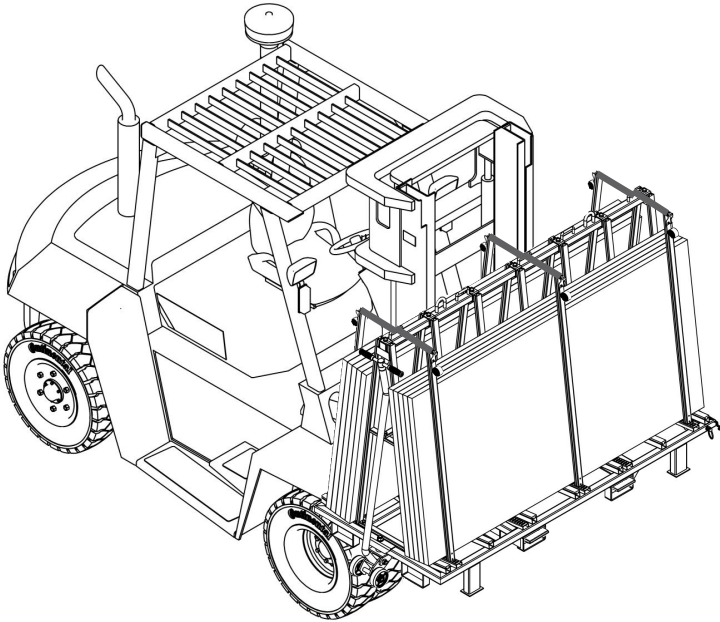


Figure 2.4

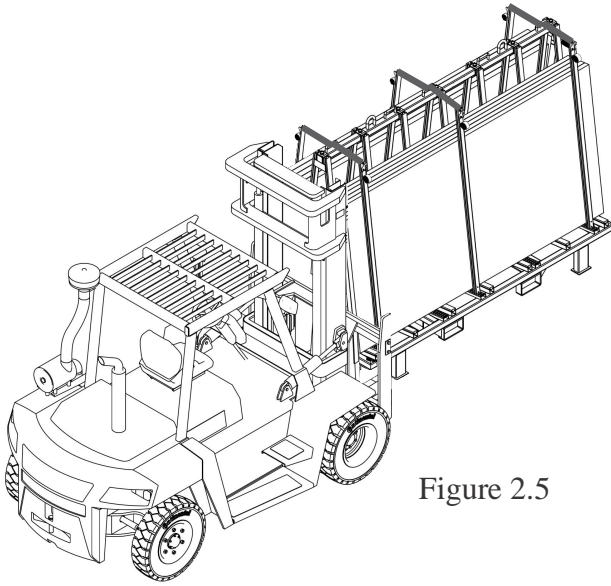


Figure 2.5

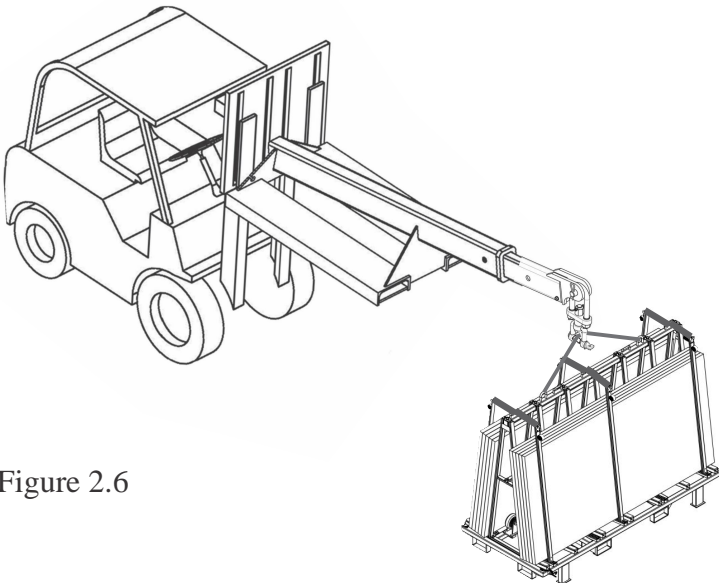


Figure 2.6

IV. APPENDIX:

1. How to use ratchet straps:



Figure 3.1

- To begin, make the end of the strap through the bottom of the mandrel (spindle) and put it back (figure 3.2).



Figure 3.2

- Then, pull the strap to remove the excess slack (Figure 3.3).

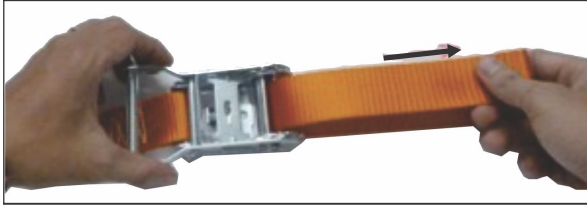


Figure 3.3

- Once the slack has been removed, start ratcheting the tension to keep the strap straight (Figure 3.4). Be sure to repeat at least 3 times to secure the strap. When reached the desired tension lock the ratchet down to its closed position (Figure 3.5).

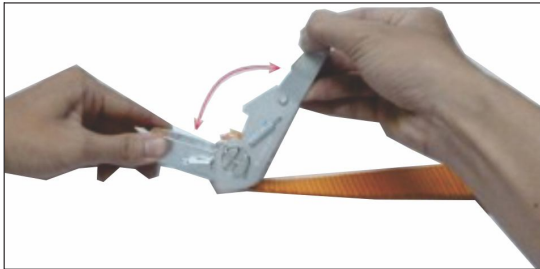


Figure 3.4

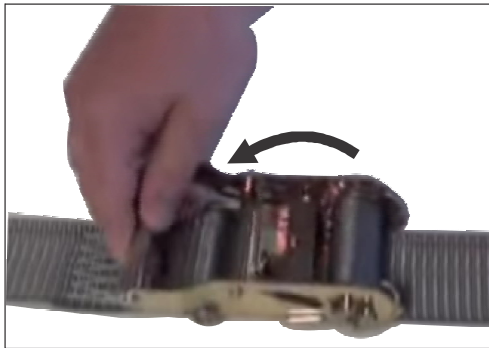


Figure 3.5

- To release the strap, open the ratchet all the way to the other side, so it lies completely flat. Once it is flat, pull and hold the release handle and open the ratchet completely. The strap will pop loose (Figure 3.6).

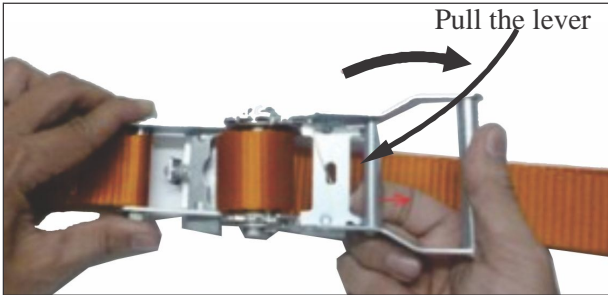


Figure 3.6

- Pull the ratchet to loosen the strap (Figure 3.7).

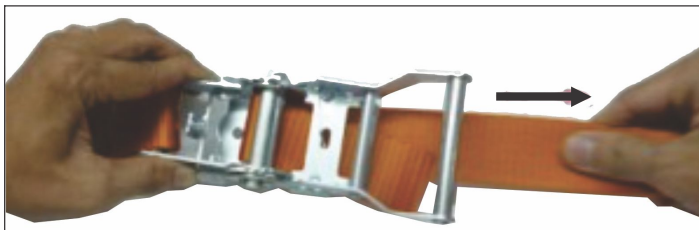


Figure 3.7

V. TECHNICAL PROBLEMS & SOLUTIONS:

The caster cannot move.

- **Cause:** Rust and/or dust, bearings is damaged.
- **Solution:** Clean, lubricate or replace with a new one.

Rubber-lining is damaged.

- **Cause:** worn out, or cracked.
- **Solution:** replace with a new one.

The strap is damaged.

- **Cause:** worn out, or cracked.
- **Solution:** replace with a new one.

VI. INSPECTION & MAINTENANCE:

- Schedule periodic maintenance.
- Always keep necessary spare parts on hand for maintenance or repair.
- Check and tighten the nuts and bolts on regular basis.
- Always keep the device clean, dry and away from grease or other substances as they may cause the device not to working properly.
- Confirm all the welded joints are free from any defects or damage, such as separation, crack, and so forth.
- Check all the rubber parts that there is no harmful damage for operation.
- Store in a dry and cool place.

VII. WARRANTY:

At the time of delivery, it is necessary to inspect One Stop A-Frame to make sure that it has not been damaged during shipment. Any claims must be submitted within 8 days from the date of delivery. We provide a one (1) year warranty on the One Stop A-Frame from the date of purchase.

During warranty period, we will provide the replacement parts at no charge (shipping and handling fees may apply).

Warranty coverage is void if:

- The operator failed to comply with the instructions in the manual.
- The specifications are not followed.
- Damage is due to inadequate maintenance and inspections.
- Damage is due to improper storage and/or usage.
- Repairs were performed by the user without our permission.
- Non-original spare parts were used.

WARRANTY CERTIFICATE

Please read the following terms and conditions carefully.

PERIOD

The warranty starts from the date of purchase and is valid for a period of twelve (12) months.

WARRANTY

This warranty is limited only to providing replacement parts as determined by the Company as defective (excluding worn-outs and consumable parts).

The Company is not responsible for any negligence, abuse, or improper use of the product.

In case the device failed to operate properly within the warranty period, our Customer Support Department will inform you of the appropriate method in dealing with your claim and advise you of your nearest approved service center.

EXCLUSIONS

The warranty does not apply to damages or failures caused by:
Incorrect use, misuse, error in transporting, mishandling
improper or lack of regular maintenance.

Use of non-genuine parts/accessories, or of incorrect specs.

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