



## Vestil Manufacturing Corp.

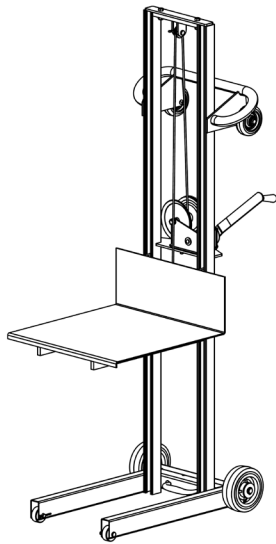
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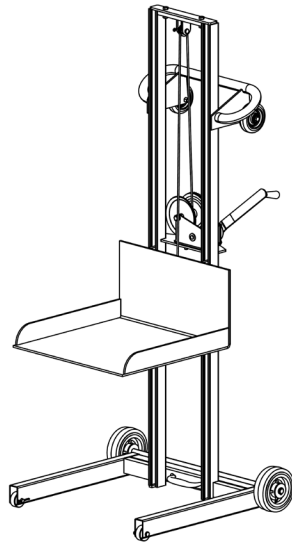
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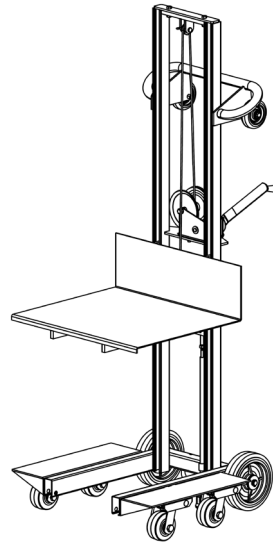
# LLW, LLPW, ALLW, & ALLPW Light Load Lifters Use and Maintenance Manual



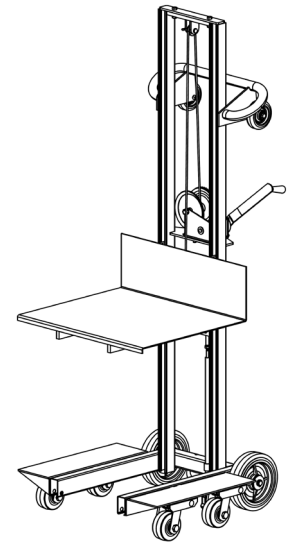
(A)LLW-FW



(A)LLPW-FW



(A)LLW-4SFL



(A)LLPW-4SFL

### 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.

### Replacement Parts and Technical Service

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 [http://www.vestilmfg.com/parts\\_info.htm](http://www.vestilmfg.com/parts_info.htm).

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.

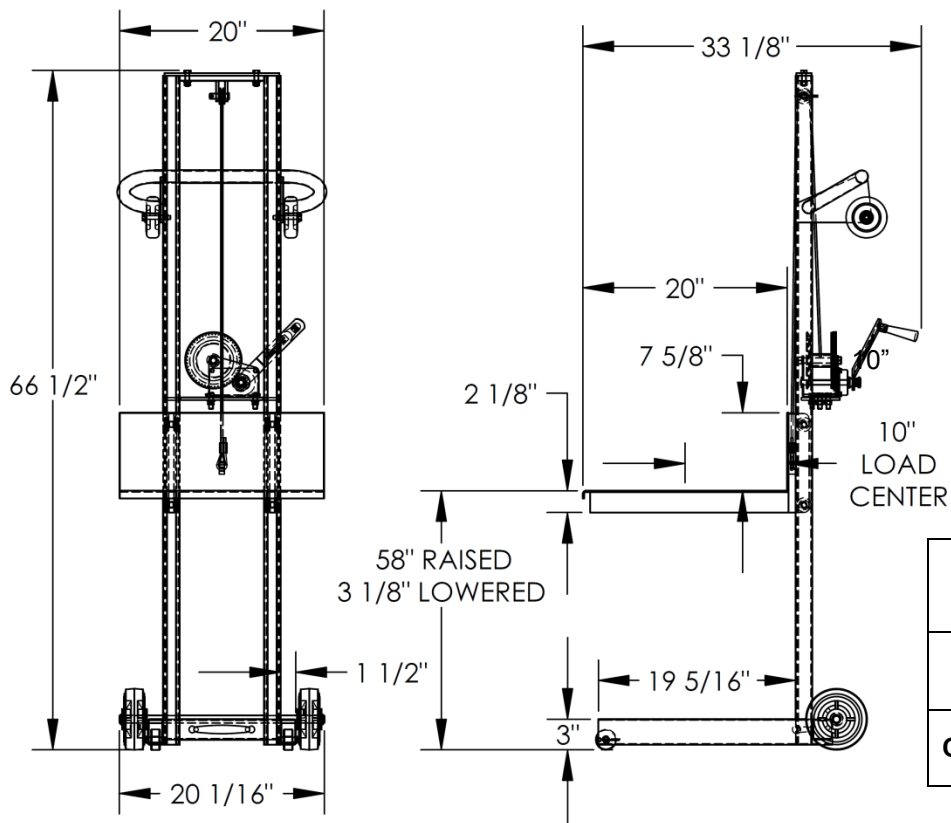
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## SPECIFICATIONS

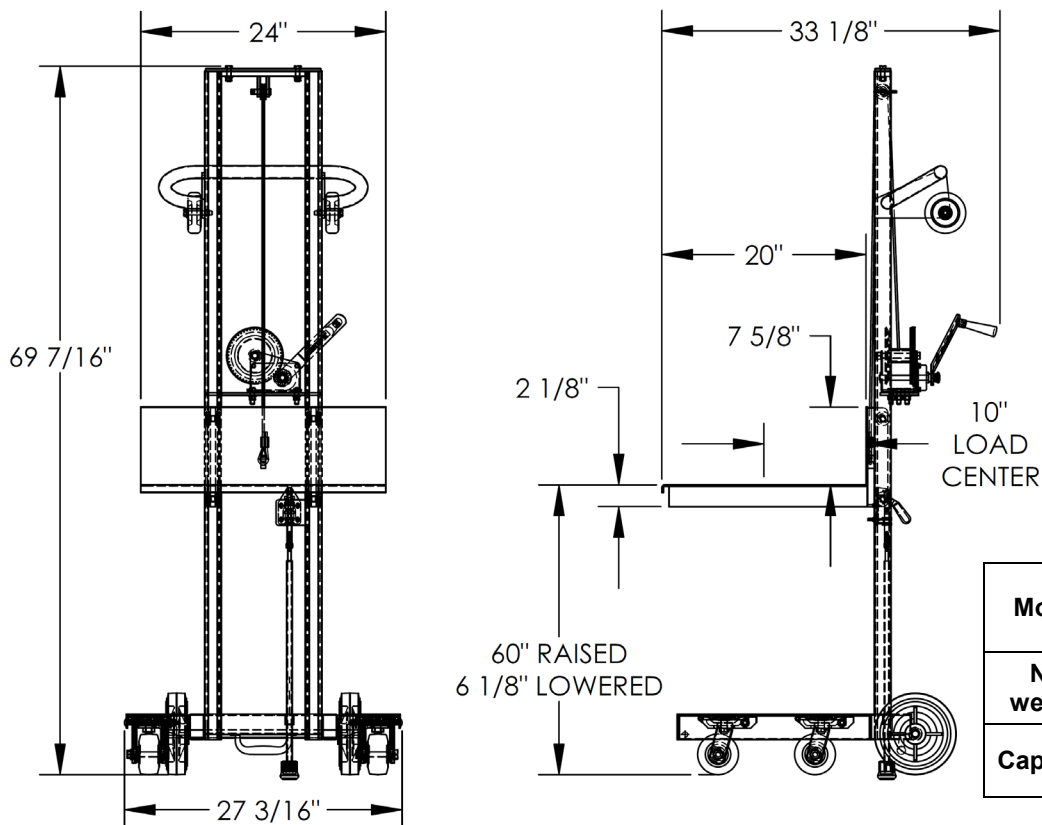
Dimensions and other product specifications for standard lifts appear in the diagrams tables on pages 2 & 3.

### LLW-FW & ALLW-FW

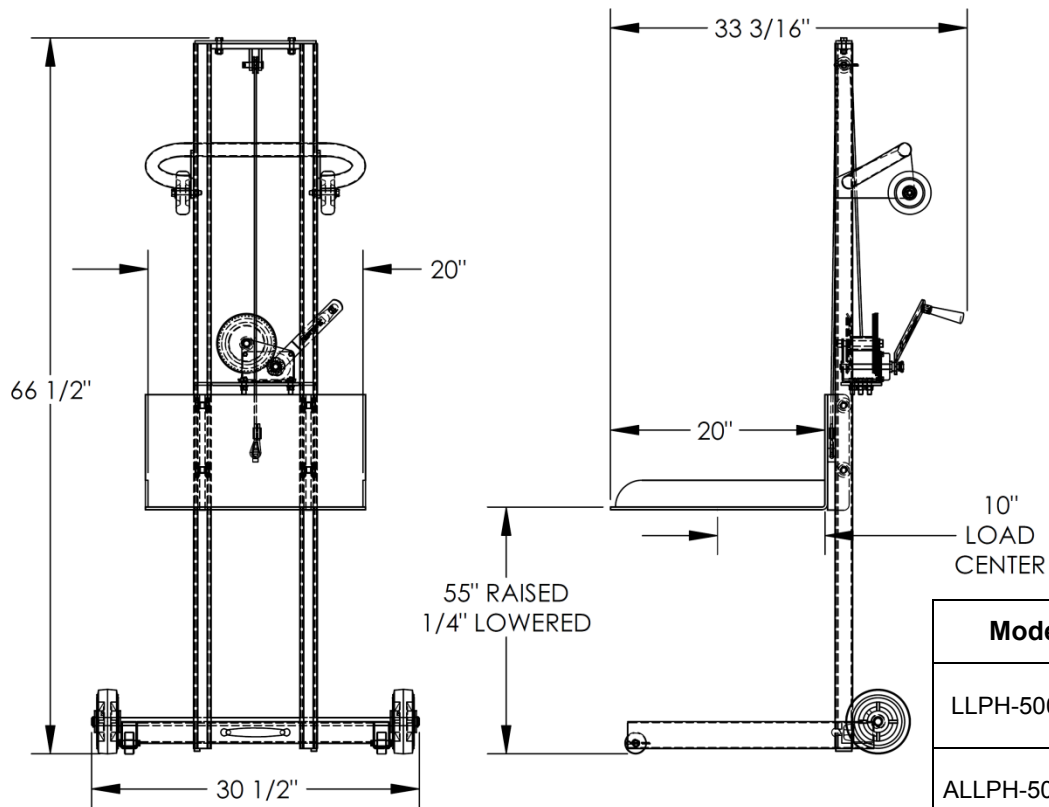
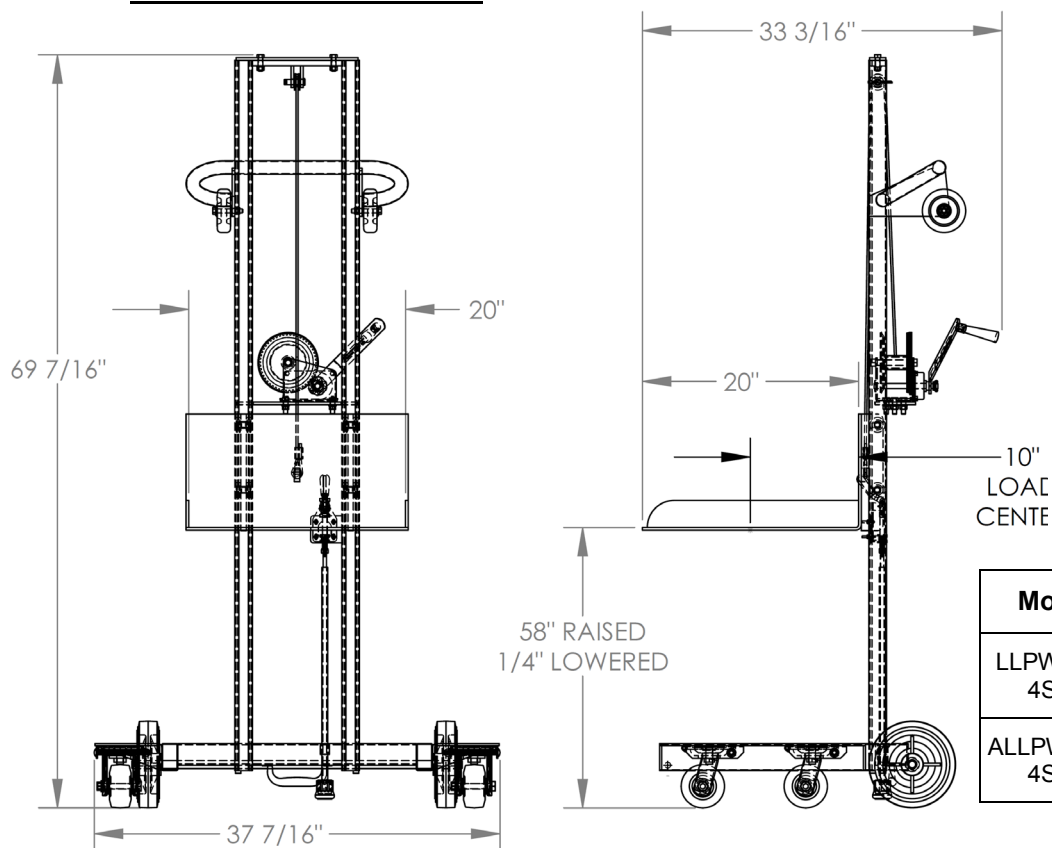


| Model      | LLW-202058-FW       | ALLW-2020-FW        |
|------------|---------------------|---------------------|
| Net weight | 131 lb.<br>59.3 kg  | 84 lb.<br>38.2 kg   |
| Capacity   | 500 lb.<br>227.3 kg | 400 lb.<br>181.8 kg |

### LLW-4SFL & ALLW-4SFL



| Model      | LLW-242060-4SFL     | ALLW-2420-4SFL      |
|------------|---------------------|---------------------|
| Net weight | 192 lb.<br>87.0 kg  | 127 lb.<br>57.7 kg  |
| Capacity   | 500 lb.<br>227.3 kg | 400 lb.<br>181.8 kg |

**LLPW-FW & ALLPW-FW****LLPW-4SFL & ALLPW-4SFL**

## 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.

## HAZARDS

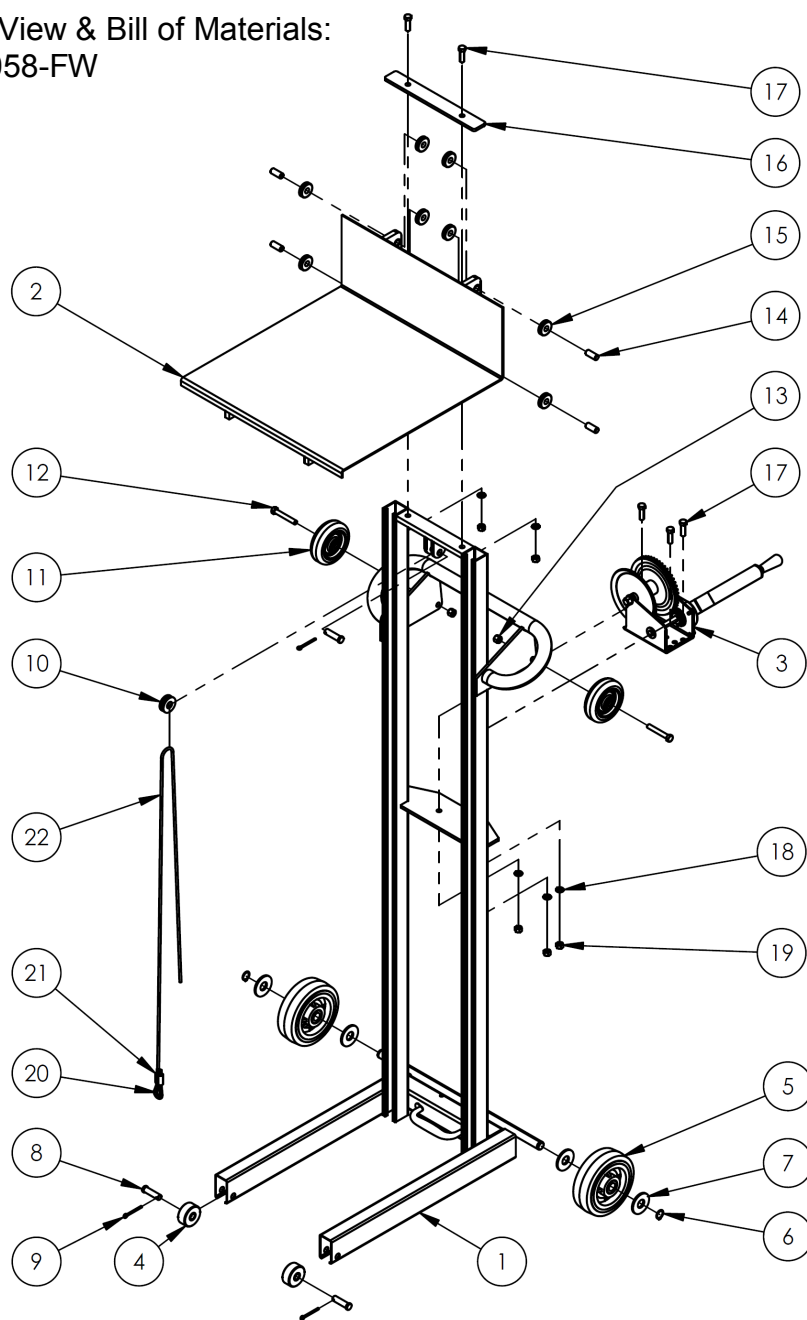
We strive to identify foreseeable hazards associated with the use of our products. However, material handling is dangerous. No manual can address every risk. Ultimately, the most effective means for preventing injury is for the end-user to apply sound judgment whenever using this lifter.



Improper or careless operation might result in serious personal injuries. Always apply material handling techniques learned during training.

- ***Failure to read and understand the entire manual before assembling, using or servicing the product constitutes misuse.*** Read the manual to refresh your understanding of proper use and maintenance procedures as necessary.
- Inspect the lifter before each use as instructed in [Inspections & Maintenance](#) on p. 14. DO NOT use the lifter unless it is in normal condition.
- Before using the lifter, inspect the area where it will be used. Look for conditions that affect the use of the lifter.
- Regardless of whether the lifter is loaded or unloaded, DO NOT stand or travel under the deck.
- Instruct others to stay clear of the device and the supported load during operation.
- Avoid contact with moving parts during operation, i.e. the cable or cylinder, deck, wheels, casters, and rollers.
- DO NOT allow people to ride on the lifter.
- Failure to properly position a load on the deck might result in injury:
  1. DO NOT exceed the capacity. Capacity information appears on label 287 as shown in [Labeling diagram](#) on p. 15. Also see appropriate [Specifications](#) diagram and table on either p. 2 or p. 3.
  2. ALWAYS properly center and evenly distribute the load. DO NOT handle off-center loads or loads that cannot be centered.
  3. Start/stop gradually to avoid upsetting the load on the deck. Strap loads to the deck if they might roll or slide.
  4. NEVER tilt the lifter while carrying a load.
- ALWAYS observe the deck while raising and lowering it. The deck should maintain levelness and should rise smoothly. Watch for binding or jerky movement and listen for unusual noises. Tag the unit "Out of order" and do not use it if you observe anything abnormal.
- Only use this lifter on even, level ground. DO NOT transport loads across inclines or stairs.
- Enlist a coworker to help you lift, load, and unload the unit whenever necessary.
- DO NOT perform maintenance on this product UNLESS it is unloaded and the deck is lowered. If the unit requires repairs, ONLY install manufacturer-approved replacement parts.
- Before leaving the unit unattended, unload it and lower the deck.
- DO NOT use the lifter UNLESS all labels are in place and readable. See [Labeling diagram](#) on p. 16.
- DO NOT modify this product in any way. Modifying the lifter automatically voids the [Limited Warranty](#) and might make it unsafe to use.

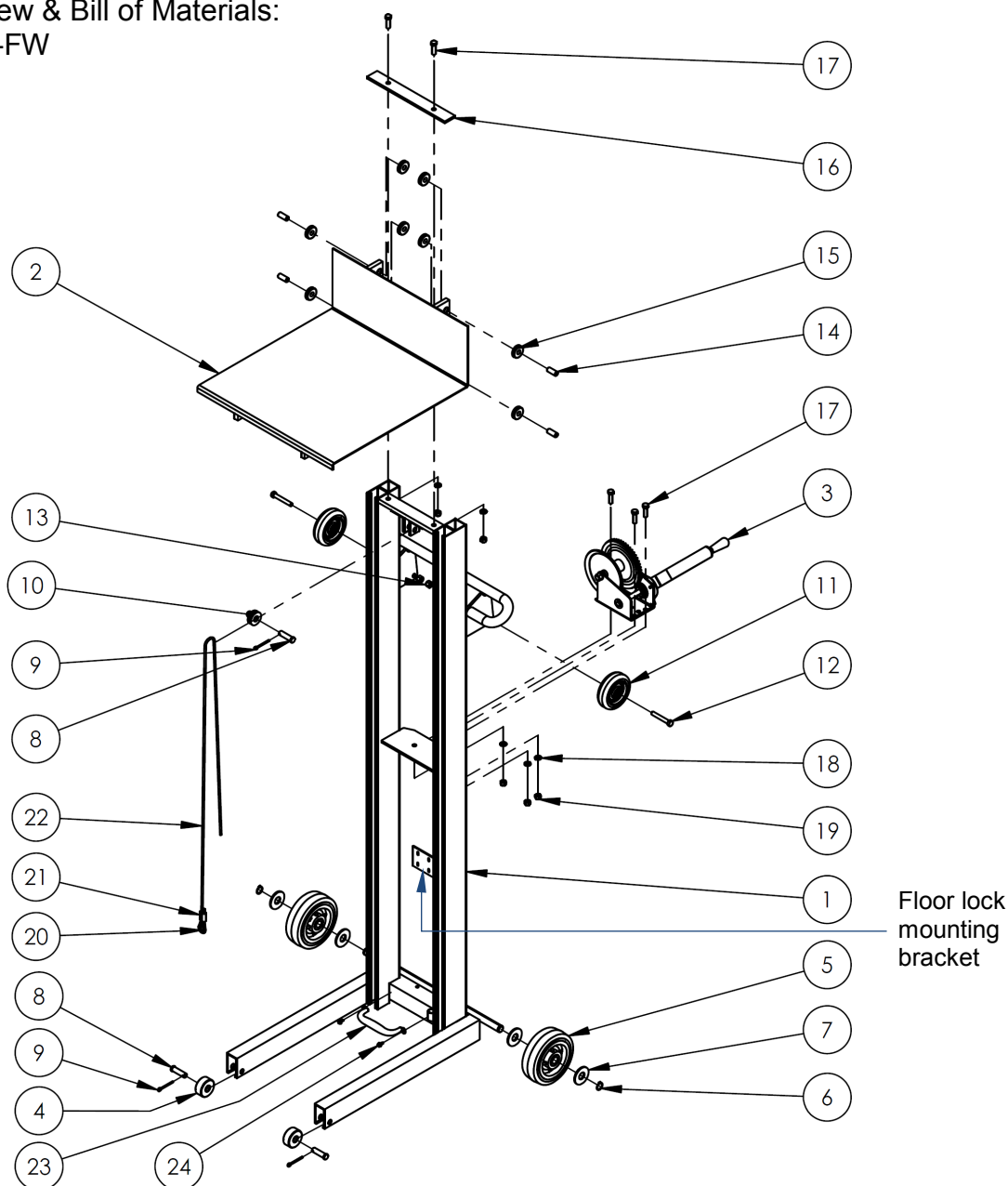
# Exploded View & Bill of Materials: LLW-202058-FW



| Item | Part no.       | Description                                                | Qty. | Item | Part no.   | Description                                                            | Qty. |
|------|----------------|------------------------------------------------------------|------|------|------------|------------------------------------------------------------------------|------|
| 1    | 21-514-005     | Weldment, frame                                            | 1    | 12   | 11113      | Hex bolt, gr. A, plain finish, $\frac{3}{8}$ " - 16 x $2\frac{1}{2}$ " | 2    |
| 2    | 21-513-002     | Weldment, deck                                             | 1    | 13   | 37024      | Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ "-16          | 2    |
| 3    | 21-042-002-001 | Hand winch, foldable handle grip                           | 1    | 14   | 21-112-002 | Pin, roller                                                            | 4    |
| 4    | 21-527-002     | Subassembly, roller with bushing                           | 2    | 15   | 21-027-003 | Roller, guide                                                          | 8    |
| 5    | 16-132-058     | Wheel, poly on poly                                        | 2    | 16   | 21-017-016 | Bar stiffener                                                          | 1    |
| 6    | 68015          | External retaining ring, phosphate, $\frac{3}{4}$ "        | 2    | 17   | 11107      | Hex bolt, gr. A, zinc finish, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "    | 5    |
| 7    | 33018          | USS flat washer, zinc plated, $\frac{3}{4}$ "              | 4    | 18   | 33622      | Split lock washer, carbon steel, medium zinc finish, $\frac{3}{8}$ "   | 5    |
| 8    | 21-112-003     | Pin, $\frac{1}{2}$ " x $1\frac{15}{16}$ " retaining clevis | 3    | 19   | 36106      | Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16                        | 5    |
| 9    | 65107          | Cotter pin, zinc finish, $\frac{5}{32}$ " x 2"             | 3    | 20   | 21-145-013 | Specialty hardware, thimble                                            | 1    |
| 10   | 21-527-001     | Pulley with bushing subassembly                            | 1    | 21   | 99-145-067 | Compression sleeve, $\frac{3}{16}$ " x 1"                              | 1    |
| 11   | 16-132-009     | PP-4/1.25-W                                                | 2    | 22   | 21-145-014 | Specialty hardware, $\frac{3}{16}$ " cable                             | 1    |

# Exploded View & Bill of Materials: ALLW-2020-FW

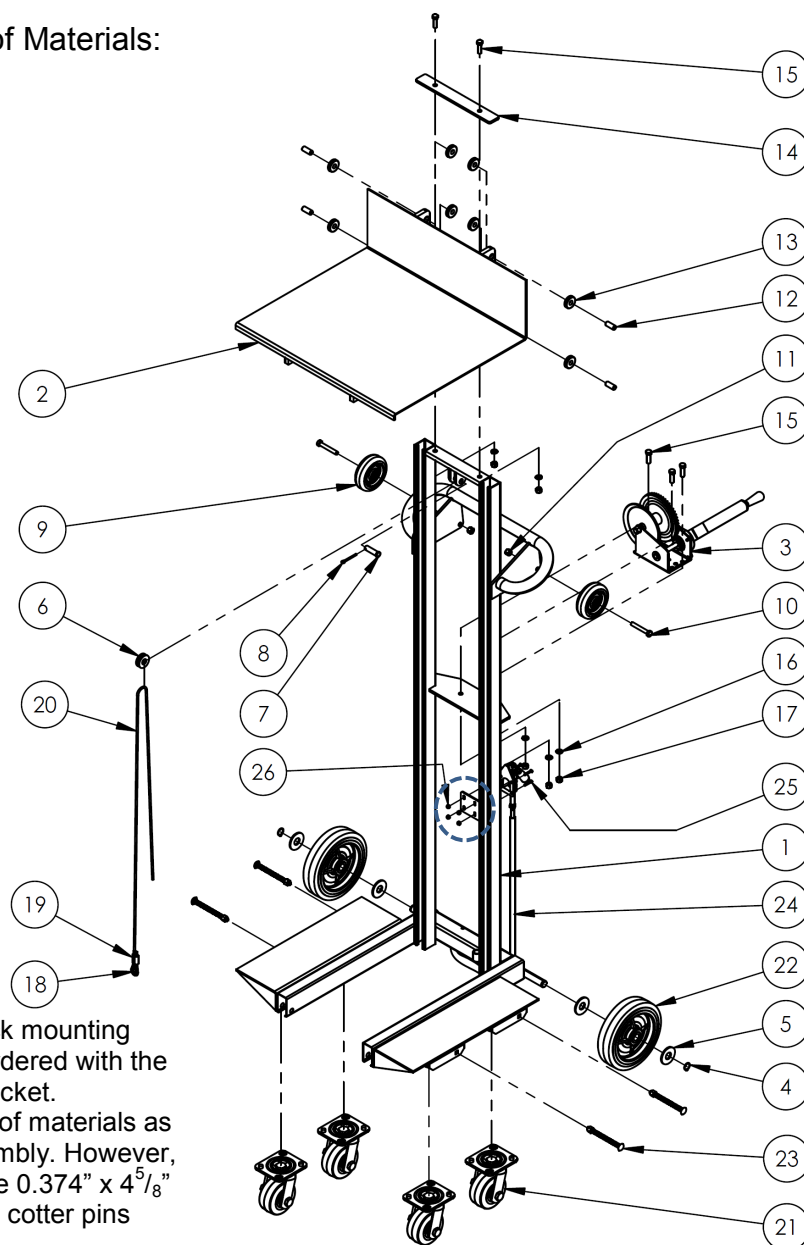
**NOTE:**  
Diagram includes  
floor lock mounting  
bracket; units not  
ordered with the  
floor lock option  
lack this bracket.



| Item | Part no.       | Description                                                            | Qty. | Item | Part no.       | Description                                                           | Qty. |
|------|----------------|------------------------------------------------------------------------|------|------|----------------|-----------------------------------------------------------------------|------|
| 1    | 42-514-008     | Weldment, frame                                                        | 1    | 13   | 37024          | Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ " – 16       | 2    |
| 2    | 42-513-006     | Weldment, deck                                                         | 1    | 14   | 21-112-002     | Pin, roller                                                           | 4    |
| 3    | 21-042-002-001 | Manual winch, foldable handle                                          | 1    | 15   | 21-027-003     | Roller, guide                                                         | 8    |
| 4    | 21-527-002     | Subassembly, roller with bushing                                       | 2    | 16   | 21-017-087     | Stiffener, bar                                                        | 1    |
| 5    | 16-132-058     | Wheel, poly-on-poly                                                    | 2    | 17   | 11107          | Hex bolt, gr. A, zinc finish, $\frac{3}{8}$ " – 16 x $1\frac{1}{4}$ " | 5    |
| 6    | 68015          | External retaining ring, phosphate, $\frac{3}{4}$ "                    | 2    | 18   | 33622          | Split lock washer, carbon steel, medium zinc finish, $\frac{3}{8}$ "  | 5    |
| 7    | 33018          | USS flat washer, zinc plated, $\frac{3}{4}$ "                          | 4    | 19   | 36106          | Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16                       | 5    |
| 8    | 21-112-003     | Pin, $\frac{1}{2}$ "x $1\frac{15}{16}$ " retaining clevis              | 3    | 20   | 21-145-013     | Specialty hardware, thimble                                           | 1    |
| 9    | 65107          | Cotter pin, zinc finish, $\frac{5}{32}$ " x 2"                         | 3    | 21   | 99-145-067     | Compression sleeve, $\frac{3}{16}$ " x 1"                             | 1    |
| 10   | 21-527-001     | Pulley with bushing subassembly                                        | 1    | 22   | 21-145-014     | Specialty hardware, $\frac{3}{16}$ " cable                            | 1    |
| 11   | 16-132-009     | PP-4/1.25-W                                                            | 2    | 23   | 13-025-004-002 | Handle                                                                | 1    |
| 12   | 11113          | Hex bolt, gr. A, plain finish, $\frac{3}{8}$ " – 16 x $2\frac{1}{2}$ " | 2    | 24   | 31802          | Screw, self-tapping                                                   | 2    |



## Exploded View & Bill of Materials: LLW-242060-4SFL



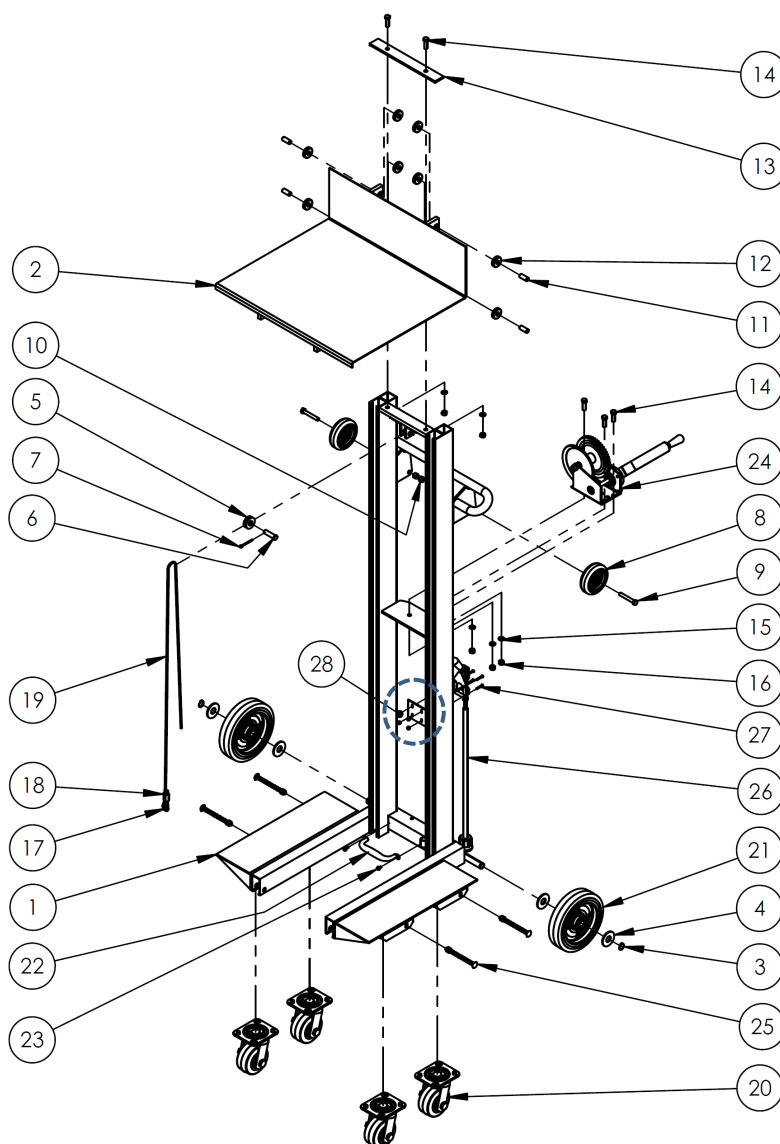
### NOTES:

1. Diagram includes floor lock mounting bracket (circled); units not ordered with the floor lock option lack this bracket.

2. Item 23 is listed in the bill of materials as a carriage bolt and nut assembly. However, some units might instead use 0.374" x 4<sup>5</sup>/<sub>8</sub>" clevis pins (99-612-006) and cotter pins (65074).

| Item | Part no.       | Description                                                                                     | Qty. | Item | Part no.   | Description                                                                                    | Qty. |
|------|----------------|-------------------------------------------------------------------------------------------------|------|------|------------|------------------------------------------------------------------------------------------------|------|
| 1    | 21-514-007     | Weldment, frame                                                                                 | 1    | 14   | 21-017-016 | Bar stiffener                                                                                  | 1    |
| 2    | 21-513-003     | Weldment, deck                                                                                  | 1    | 15   | 11107      | Hex bolt, gr. A, zinc finish, <sup>3</sup> / <sub>8</sub> "-16x1 <sup>1</sup> / <sub>4</sub> " | 5    |
| 3    | 21-042-002-001 | Manual winch                                                                                    | 1    | 16   | 33622      | Split lock washer, carbon steel, medium zinc finish, <sup>3</sup> / <sub>8</sub> "             | 5    |
| 4    | 68015          | External retaining ring, phosphate, <sup>3</sup> / <sub>4</sub> "                               | 2    | 17   | 36106      | Hex nut, gr. A, zinc plated, <sup>3</sup> / <sub>8</sub> "-16                                  | 5    |
| 5    | 33018          | USS flat washer, zinc plated, <sup>3</sup> / <sub>4</sub> "                                     | 4    | 18   | 21-145-013 | Specialty hardware, thimble                                                                    | 1    |
| 6    | 21-527-001     | Pulley with bushing, subassembly                                                                | 1    | 19   | 99-145-067 | Compression sleeve, <sup>3</sup> / <sub>16</sub> " x 1"                                        | 1    |
| 7    | 21-112-003     | Pin, <sup>1</sup> / <sub>2</sub> " x 1 <sup>15</sup> / <sub>16</sub> " retaining clevis         | 1    | 20   | 21-145-014 | Specialty hardware, <sup>3</sup> / <sub>16</sub> " cable                                       | 1    |
| 8    | 65107          | Cotter pin, zinc finish, <sup>5</sup> / <sub>32</sub> " x 2"                                    | 1    | 21   | 16-132-011 | 4" x 2" mold-on rubber swiveling caster                                                        | 4    |
| 9    | 16-132-009     | PP-4/1.25-W                                                                                     | 2    | 22   | 16-132-200 | Wheel, PP-8/2-W, red                                                                           | 2    |
| 10   | 111113         | Hex bolt, gr. A, plain finish, <sup>3</sup> / <sub>8</sub> "-16x2 <sup>1</sup> / <sub>2</sub> " | 2    | 23   | 99-612-001 | Pin, caster retainer, bolt and nut                                                             | 4    |
| 11   | 37024          | Nylon insert lock nut, gr. 2, zinc finish, <sup>3</sup> / <sub>8</sub> "-16                     | 2    | 24   | 21-001-132 | Floor lock assembly                                                                            | 1    |
| 12   | 21-112-002     | Pin, roller                                                                                     | 4    | 25   | 27402      | RHSMS #8-32 x 1"                                                                               | 4    |
| 13   | 13-027-003     | Roller guide                                                                                    | 8    | 26   | 37012      | #8-32 Nylock nut, zinc plated                                                                  | 4    |

## Exploded View &amp; Bill of Materials: ALLW-2420-4SFL

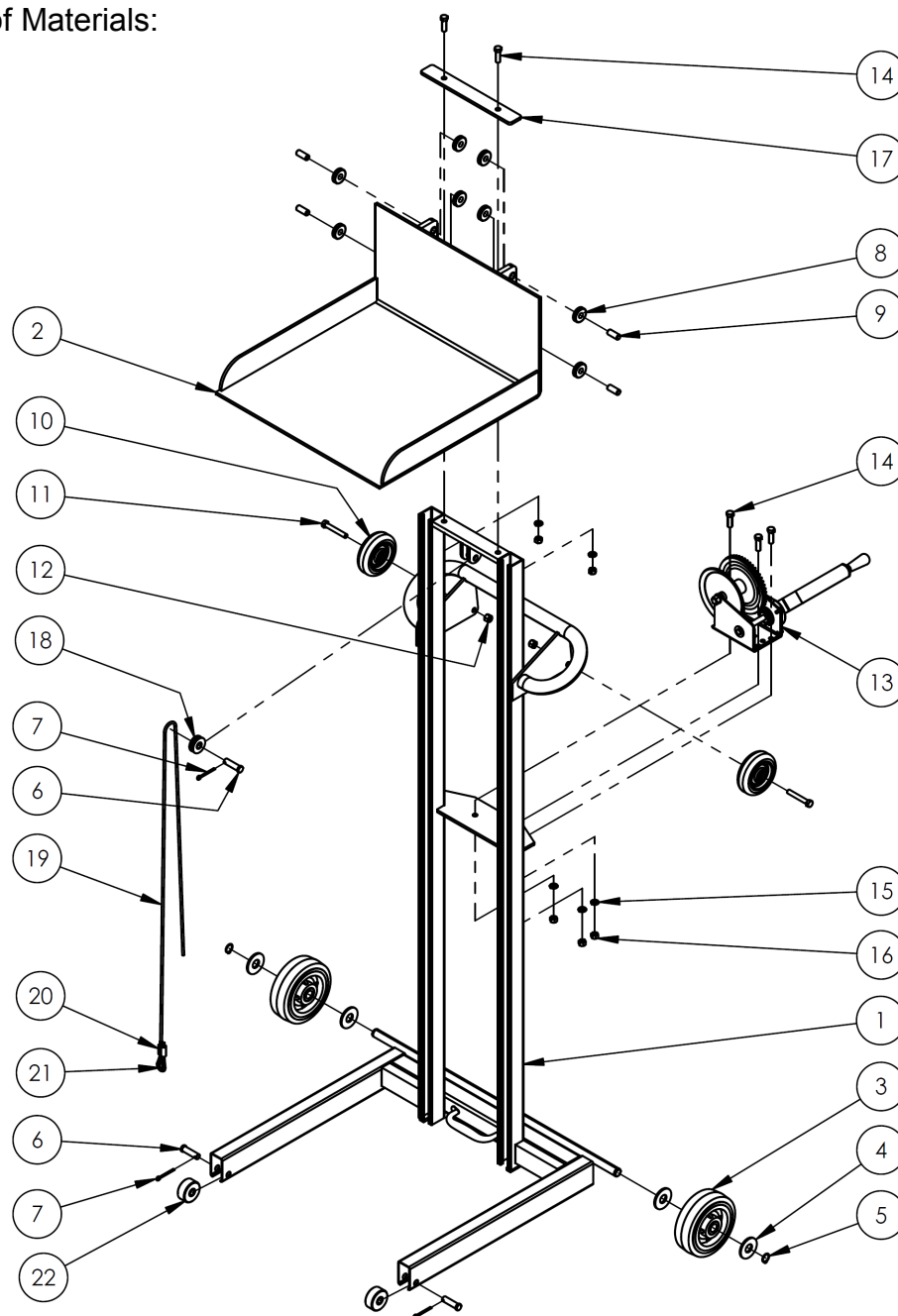


**NOTE:**  
Diagram includes floor lock bracket (circled); units not ordered with the floor lock option lack this bracket.

| Item | Part no.   | Description                                                           | Qty. | Item | Part no.       | Description                                                          | Qty. |
|------|------------|-----------------------------------------------------------------------|------|------|----------------|----------------------------------------------------------------------|------|
| 1    | 42-514-014 | Weldment, frame                                                       | 1    | 15   | 33622          | Split lock washer, carbon steel, medium zinc finish, $\frac{3}{8}$ " | 5    |
| 2    | 42-513-007 | Weldment, deck                                                        | 1    | 16   | 36106          | Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16                      | 5    |
| 3    | 68015      | External retaining ring, phosphate, $\frac{3}{4}$ "                   | 2    | 17   | 21-145-013     | Specialty hardware, thimble                                          | 1    |
| 4    | 33018      | USS flat washer, zinc plated, $\frac{3}{4}$ "                         | 4    | 18   | 99-145-067     | Compression sleeve, $\frac{3}{16}$ " x 1"                            | 1    |
| 5    | 21-527-001 | Pulley with bushing subassembly                                       | 1    | 19   | 21-145-014     | Specialty hardware, $\frac{3}{16}$ " cable                           | 1    |
| 6    | 21-112-003 | Pin, $\frac{1}{2}$ " x $1\frac{15}{16}$ " retaining clevis            | 1    | 20   | 16-132-011     | 4" x 2" mold-on rubber, swiveling caster                             | 4    |
| 7    | 65107      | Cotter pin, zinc finish, $\frac{5}{32}$ " x 2"                        | 1    | 21   | 16-132-200     | Caster, PP-8/2/w, red                                                | 2    |
| 8    | 16-132-009 | PP-4/1.25-W                                                           | 2    | 22   | 13-025-004-002 | Handle                                                               | 1    |
| 9    | 11113      | Hex bolt, gr. A, plain finish, $\frac{3}{8}$ "-16 x $2\frac{1}{2}$ "  | 2    | 23   | 31802          | Screw, self-tapping                                                  | 2    |
| 10   | 37024      | Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ " - 16       | 2    | 24   | 21-042-002-001 | Manual winch, folding handle                                         | 1    |
| 11   | 21-112-002 | Pin, roller                                                           | 4    | 25   | 99-612-001     | Pin, caster retainer, bolt and nut                                   | 4    |
| 12   | 21-027-003 | Roller guide, stiffener, bar                                          | 8    | 26   | 21-001-132     | Floor lock assembly                                                  | 1    |
| 13   | 21-017-087 | Stiffener, bar                                                        | 1    | 27   | 27402          | RHSMS #8-32 x 1"                                                     | 4    |
| 14   | 11107      | Hex bolt, gr. A, zinc finish, $\frac{3}{8}$ " - 16 x $1\frac{1}{4}$ " | 5    | 28   | 37012          | #8-32 Nylock nut, zinc plated                                        | 4    |

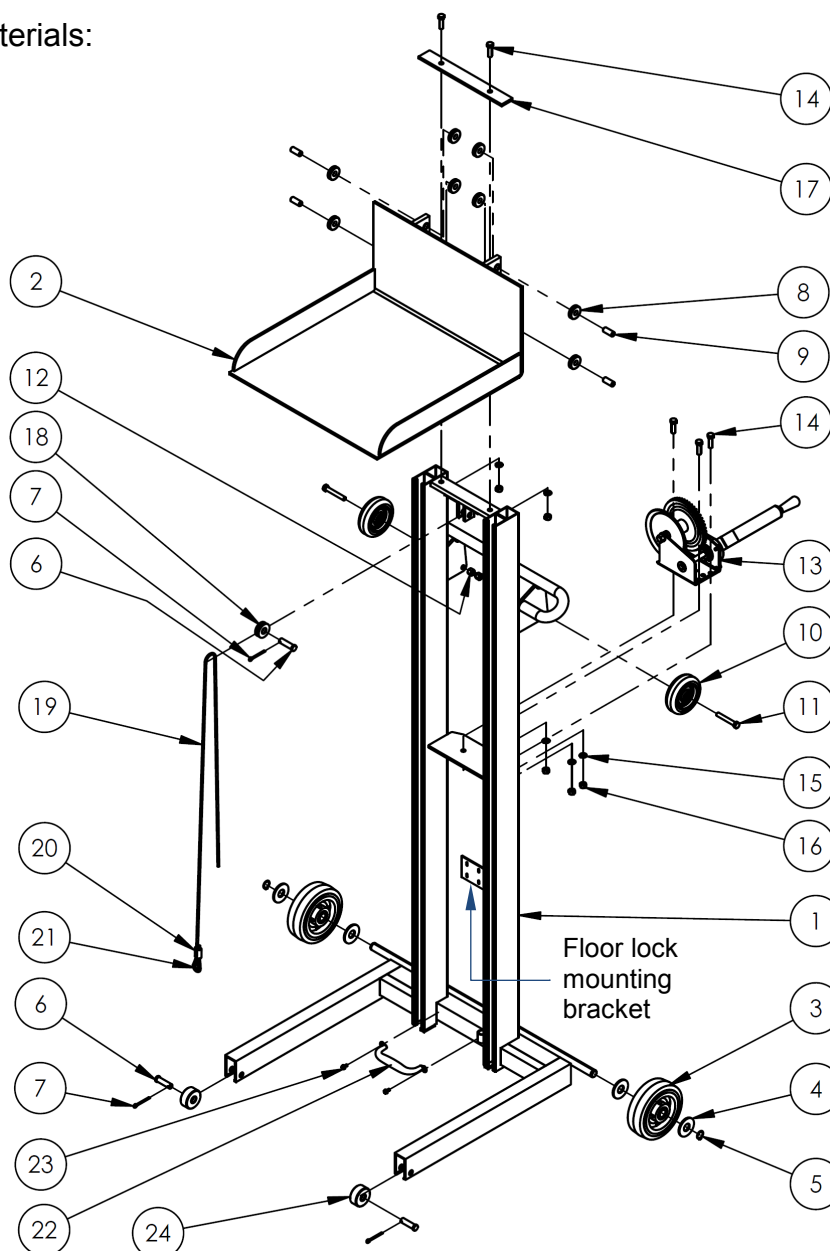


# Exploded View & Bill of Materials: LLPW-500-FW



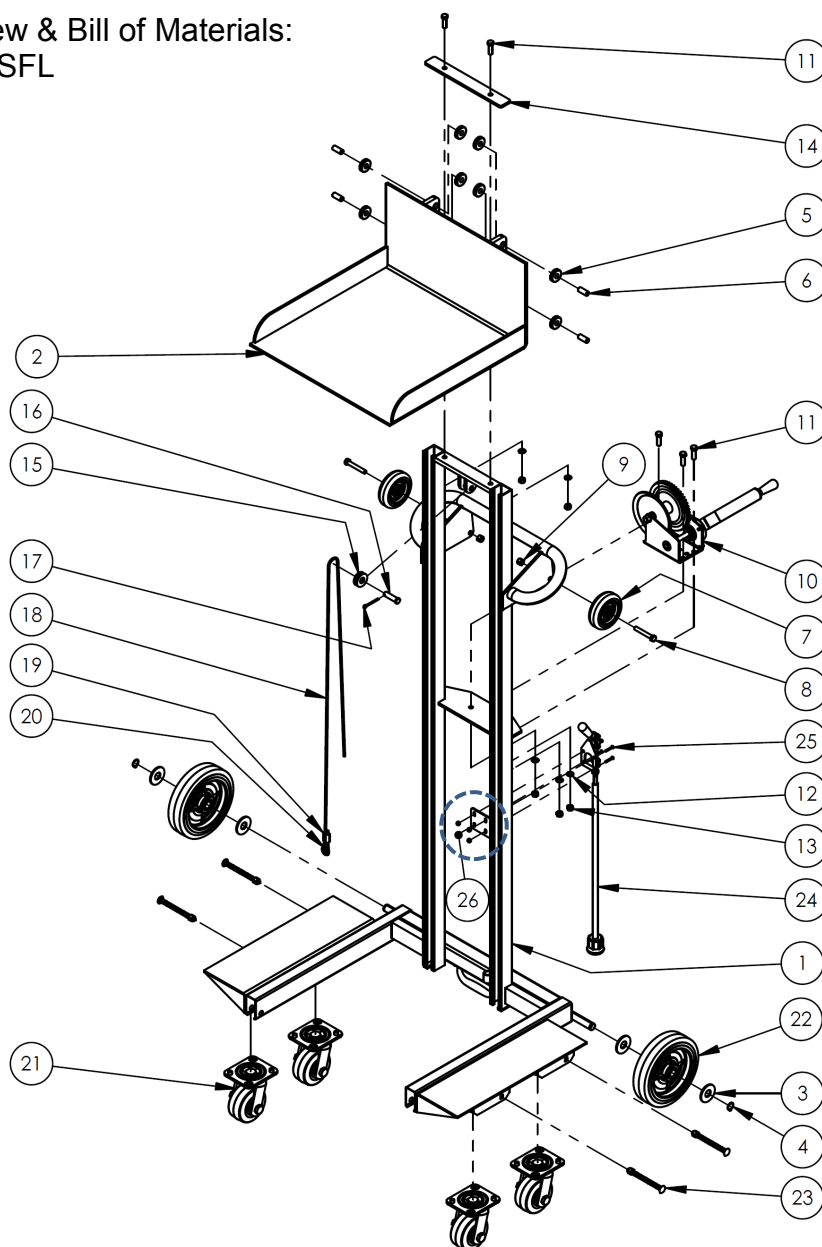
| Item | Part no.   | Description                                                          | Qty. | Item | Part no.       | Description                                                          | Qty. |
|------|------------|----------------------------------------------------------------------|------|------|----------------|----------------------------------------------------------------------|------|
| 1    | 33-514-056 | Weldment, frame                                                      | 1    | 12   | 37024          | Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ "-16        | 2    |
| 2    | 33-513-032 | Weldment, deck                                                       | 1    | 13   | 21-042-002-001 | Hand winch, foldable handle                                          | 1    |
| 3    | 16-132-058 | Wheel, poly-on-poly                                                  | 2    | 14   | 11107          | Hex bolt, gr. A, zinc finish, $\frac{3}{8}$ -16 x $1\frac{1}{4}$ "   | 5    |
| 4    | 33018      | USS flat washer, zinc plated, $\frac{3}{4}$ "                        | 4    | 15   | 33622          | Split lock washer, carbon steel, medium zinc finish, $\frac{3}{8}$ " | 5    |
| 5    | 68015      | External retaining ring, phosphate, $\frac{3}{4}$ "                  | 2    | 16   | 36106          | Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16                      | 5    |
| 6    | 21-112-003 | Pin, $\frac{1}{2}$ " x $1\frac{15}{16}$ " retaining clevis           | 3    | 17   | 21-017-016     | Bar stiffener                                                        | 1    |
| 7    | 65107      | Cotter pin, zinc finish, $\frac{5}{32}$ " x 2"                       | 3    | 18   | 21-527-001     | Pelley with bushing subassembly                                      | 1    |
| 8    | 21-027-003 | Roller, guide                                                        | 8    | 19   | 21-145-014     | Specialty hardware, $\frac{3}{16}$ " cable                           | 1    |
| 9    | 21-112-002 | Pin, roller                                                          | 4    | 20   | 99-145-067     | Compression sleeve, $\frac{3}{16}$ " x 1"                            | 1    |
| 10   | 16-132-009 | Caster, PP-4/1.25-W                                                  | 2    | 21   | 21-145-013     | Specialty hardware, thimble                                          | 1    |
| 11   | 11113      | Hex bolt, gr. A, plain finish, $\frac{3}{8}$ "-16 x $2\frac{1}{2}$ " | 2    | 22   | 21-527-002     | Subassembly, roller with bushing                                     | 2    |

# Exploded View & Bill of Materials: ALLPW-500-FW



| Item | Part no.   | Description                                                          | Qty. | Item | Part no.       | Description                                                          | Qty. |
|------|------------|----------------------------------------------------------------------|------|------|----------------|----------------------------------------------------------------------|------|
| 1    | 42-514-016 | Weldment, frame                                                      | 1    | 13   | 21-042-002-001 | Manual winch, foldable handle                                        | 1    |
| 2    | 21-513-038 | Weldment, deck                                                       | 1    | 14   | 11107          | Hex bolt, gr. A. zinc finish, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "  | 5    |
| 3    | 16-132-058 | Wheel, poly-on-poly                                                  | 2    | 15   | 33622          | Split lock washer, carbon steel, medium zinc finish, $\frac{3}{8}$ " | 5    |
| 4    | 33018      | USS flat washer, zinc plated, $\frac{3}{4}$ "                        | 4    | 16   | 36106          | Hex nut, gr. A, zinc plated, $\frac{3}{8}$ "-16                      | 5    |
| 5    | 68015      | External retaining ring, phosphate, $\frac{3}{4}$ "                  | 2    | 17   | 21-017-087     | Stiffener, bar                                                       | 1    |
| 6    | 21-112-003 | Pin, $\frac{1}{2}$ " x $1\frac{15}{16}$ " retaining clevis           | 3    | 18   | 21-527-001     | Pulley with bushing subassembly                                      | 1    |
| 7    | 65107      | Cotter pin, zinc finish, $\frac{5}{32}$ " x 2"                       | 3    | 19   | 21-145-014     | Specialty hardware, $\frac{3}{16}$ " cable                           | 1    |
| 8    | 21-027-003 | Roller, guide                                                        | 8    | 20   | 99-145-067     | Compression sleeve, $\frac{3}{16}$ " x 1"                            | 1    |
| 9    | 21-112-002 | Pin, roller                                                          | 4    | 21   | 21-145-013     | Specialty hardware, thimble                                          | 1    |
| 10   | 16-132-009 | Wheel, PP-4/1.25-W                                                   | 2    | 22   | 13-025-004-002 | Handle                                                               | 1    |
| 11   | 11113      | Hex bolt, gr. A, plain finish, $\frac{3}{8}$ "-16 x $2\frac{1}{2}$ " | 2    | 23   | 31802          | Screw, self-tapping                                                  | 2    |
| 12   | 37024      | Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ "-16        | 2    | 24   | 21-527-002     | Subassembly, roller with bushing                                     | 2    |

# Exploded View & Bill of Materials: LLPW-500-4SFL

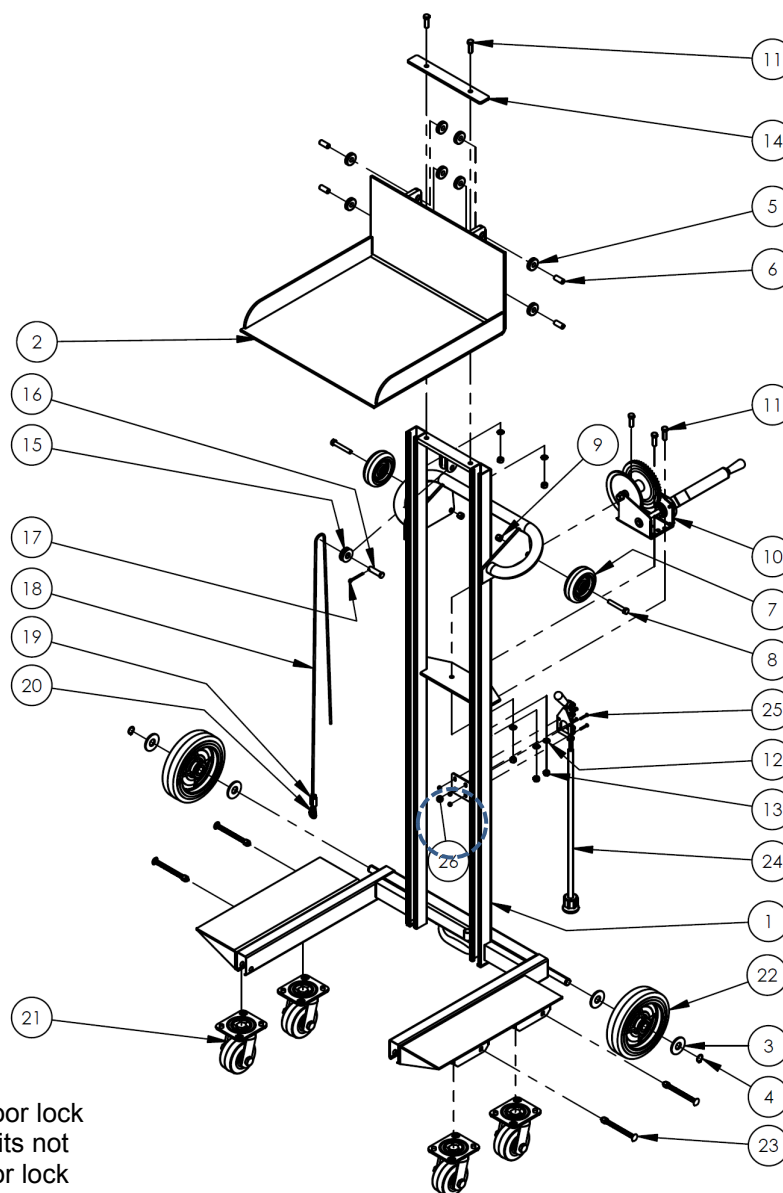


## NOTES:

1. Diagram includes floor lock bracket (circled); units not ordered with the floor lock option lack this bracket.
2. Item 23 is listed in the bill of materials as a carriage bolt and nut assembly. However, some units might use 0.374" x 4<sup>5</sup>/<sub>8</sub>" clevis pins (99-612-006) and cotter pins (65074).

| Item | Part no.       | Description                                                                                       | Qty. | Item | Part no.   | Description                                                                             | Qty. |
|------|----------------|---------------------------------------------------------------------------------------------------|------|------|------------|-----------------------------------------------------------------------------------------|------|
| 1    | 42-514-006     | Weldment, frame                                                                                   | 1    | 14   | 21-017-016 | Bar stiffener                                                                           | 1    |
| 2    | 33-513-032     | Weldment, deck                                                                                    | 1    | 15   | 21-527-001 | Pulley with bush subassembly                                                            | 1    |
| 3    | 33018          | USS flat washer, zinc plated, <sup>3</sup> / <sub>4</sub> "                                       | 4    | 16   | 21-112-003 | Pin, <sup>1</sup> / <sub>2</sub> " x 1 <sup>15</sup> / <sub>16</sub> " retaining clevis | 1    |
| 4    | 68015          | External retaining ring, phosphate, <sup>3</sup> / <sub>4</sub> "                                 | 2    | 17   | 65107      | Cotter pin, zinc finish, <sup>5</sup> / <sub>32</sub> " x 2"                            | 1    |
| 5    | 21-027-003     | Roller, guide                                                                                     | 8    | 18   | 21-145-014 | Specialty hardware, <sup>3</sup> / <sub>16</sub> " cable                                | 1    |
| 6    | 21-112-002     | Pin, roller                                                                                       | 4    | 19   | 99-145-067 | Compression sleeve, <sup>3</sup> / <sub>16</sub> " x 1"                                 | 1    |
| 7    | 16-132-009     | Wheel, PP-4/1.25-W                                                                                | 2    | 20   | 21-145-013 | Specialty hardware, thimble                                                             | 1    |
| 8    | 11113          | Hex bolt, gr. A, plain finish, <sup>3</sup> / <sub>8</sub> "-16 x 2 <sup>1</sup> / <sub>2</sub> " | 2    | 21   | 16-132-011 | 4" x 2" mold-on rubber swivel caster                                                    | 4    |
| 9    | 37024          | Nylon insert lock nut, gr. 2, zinc finish, <sup>3</sup> / <sub>8</sub> "-16                       | 2    | 22   | 16-132-200 | Wheel, PP-8/2-W, red                                                                    | 2    |
| 10   | 21-042-002-001 | Manual winch, foldable handle                                                                     | 1    | 23   | 99-612-001 | Pin, caster receiver, bolt and nut                                                      | 4    |
| 11   | 11107          | Hex bolt, gr. A, zinc finish, <sup>3</sup> / <sub>8</sub> "-16 x 1 <sup>1</sup> / <sub>4</sub> "  | 5    | 24   | 21-001-132 | Floor lock assembly                                                                     | 1    |
| 12   | 33622          | Split lock washer, carbon steel, medium zinc finish, <sup>3</sup> / <sub>8</sub> "                | 5    | 25   | 27402      | RHSMS #8-32 x 1"                                                                        | 4    |
| 13   | 36106          | Hex nut, gr. A, zinc plated, <sup>3</sup> / <sub>8</sub> "-16                                     | 5    | 26   | 37012      | #8-32 Nylock nut zinc plated                                                            | 4    |

## Exploded View &amp; Bill of Materials: ALLPW-500-4SFL



## NOTE:

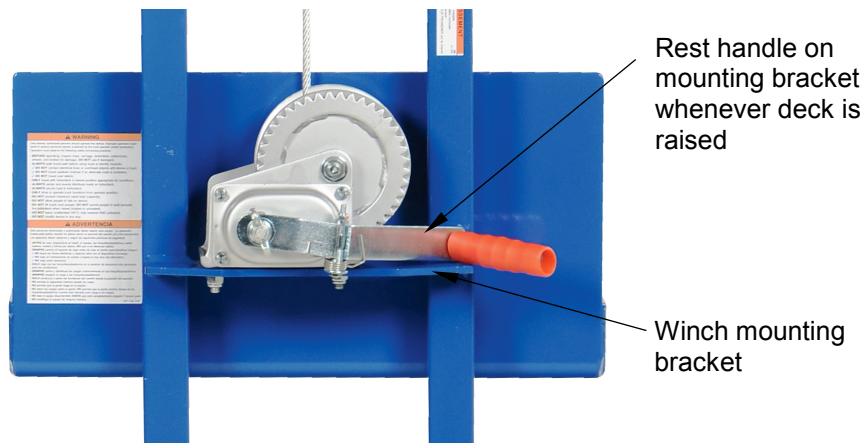
Diagram includes floor lock bracket (circled); units not ordered with the floor lock option lack this bracket.

| Item | Part no.       | Description                                                          | Qty. | Item | Part no.   | Description                                                | Qty. |
|------|----------------|----------------------------------------------------------------------|------|------|------------|------------------------------------------------------------|------|
| 1    | 42-514-006     | Weldment, frame                                                      | 1    | 14   | 21-017-016 | Bar, stiffener                                             | 1    |
| 2    | 33-513-032     | Weldment, deck                                                       | 1    | 15   | 21-527-001 | Pulley with bushing subassembly                            | 1    |
| 3    | 33018          | USS flat washer, zinc plated, $\frac{3}{4}$ "                        | 4    | 16   | 21-112-003 | Pin, $\frac{1}{2}$ " x $1\frac{15}{16}$ " retaining clevis | 1    |
| 4    | 68015          | External retaining ring, phosphate, $\frac{3}{4}$ "                  | 2    | 17   | 65107      | Cotter pin, zinc finish, $\frac{5}{32}$ " x 2"             | 1    |
| 5    | 21-027-003     | Roller, guide                                                        | 8    | 18   | 21-145-014 | Specialty hardware, $\frac{3}{16}$ " aircraft cable        | 1    |
| 6    | 21-112-002     | Pin, roller                                                          | 4    | 19   | 99-145-067 | Compression sleeve, $\frac{3}{16}$ " x 1"                  | 1    |
| 7    | 16-132-009     | Wheel, PP-4/1.25-W                                                   | 2    | 20   | 21-145-013 | Specialty hardware, thimble                                | 1    |
| 8    | 11113          | Hex bolt, gr. A, plain finish, $\frac{3}{8}$ "-16 x $2\frac{1}{2}$ " | 2    | 21   | 16-132-011 | 4" x 2" mold-on rubber swivel caster                       | 4    |
| 9    | 37024          | Nylon insert lock nut, gr. 2, zinc finish, $\frac{3}{8}$ "-16        | 2    | 22   | 16-132-200 | Wheel, PP-8/2-W, red                                       | 2    |
| 10   | 21-042-002-001 | Manual winch, foldable handle                                        | 1    | 23   | 99-612-001 | Pin, caster receiver, bolt and nut                         | 4    |
| 11   | 11107          | Hex bolt, gr. A, zinc finish, $\frac{3}{8}$ "-16 x $1\frac{1}{4}$ "  | 5    | 24   | 21-001-132 | Floor lock assembly                                        | 1    |
| 12   | 33622          | Split lock washer, carbon steel, medium zinc finish, $\frac{3}{8}$ " | 5    | 25   | 27402      | RHSMS #8-32 x 1"                                           | 4    |
| 13   | 36106          |                                                                      | 5    | 26   | 37012      | #8-32 Nylock nut, zinc plated                              | 4    |

## RAISING AND LOWERING THE DECK

To raise and lower the deck, the lifter is equipped with a manual winch.

**Winch:** To raise the platform, rotate the handle clockwise. The platform rises ~1 inch with each rotation. To lower the platform, rotate the handle counterclockwise. Lay the handle on the winch mounting bracket as shown when the deck is elevated.



## USING THE HAND TRUCK

This product is a “manually-propelled high lift industrial truck” according to the national standard ANSI/ITSDF B56.10-2012 (“B56.10”). Acquire a copy of B56.10, which is available at no cost through the ITSDF website ([www.itsdf.org](http://www.itsdf.org)), and review the operation recommendations. Instructions in this manual are meant to **supplement** those recommendations.

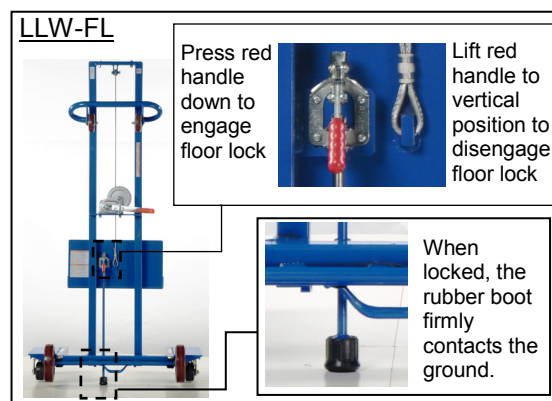
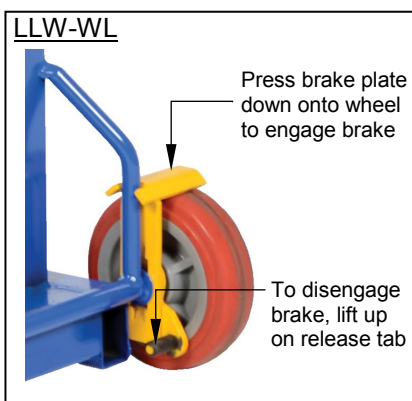
ONLY use this device after completing the training program outlined in B56.10, sections 4.17 and 4.18.1-4.

- Develop safe working habits and an awareness of hazardous conditions occurring or present during operation of the lifter.
- Inspect the area where the lifter will be used **before each use** to identify unusual operating conditions. Implement additional safety precautions as conditions require. Conditions might include:
  1. Irregularities in the floor/surface;
  2. Debris or other obstructions on the floor/surface;
  3. Unsound surfaces, i.e. surfaces that cannot support your weight plus the weight of the lifter and a full capacity load.
- Perform the following **function test before each use**:
  1. Raise and lower the deck and confirm normal operating condition of the lift mechanisms.
  2. Test the casters/wheels: wheels should roll smoothly, should not be severely worn, and should be rigidly fastened to the frame of the lifter.

Inspect the lifter as recommended in the [Inspections & Maintenance](#) section of this manual on pages 14-15. Use the lifter only if it is in normal operating condition.

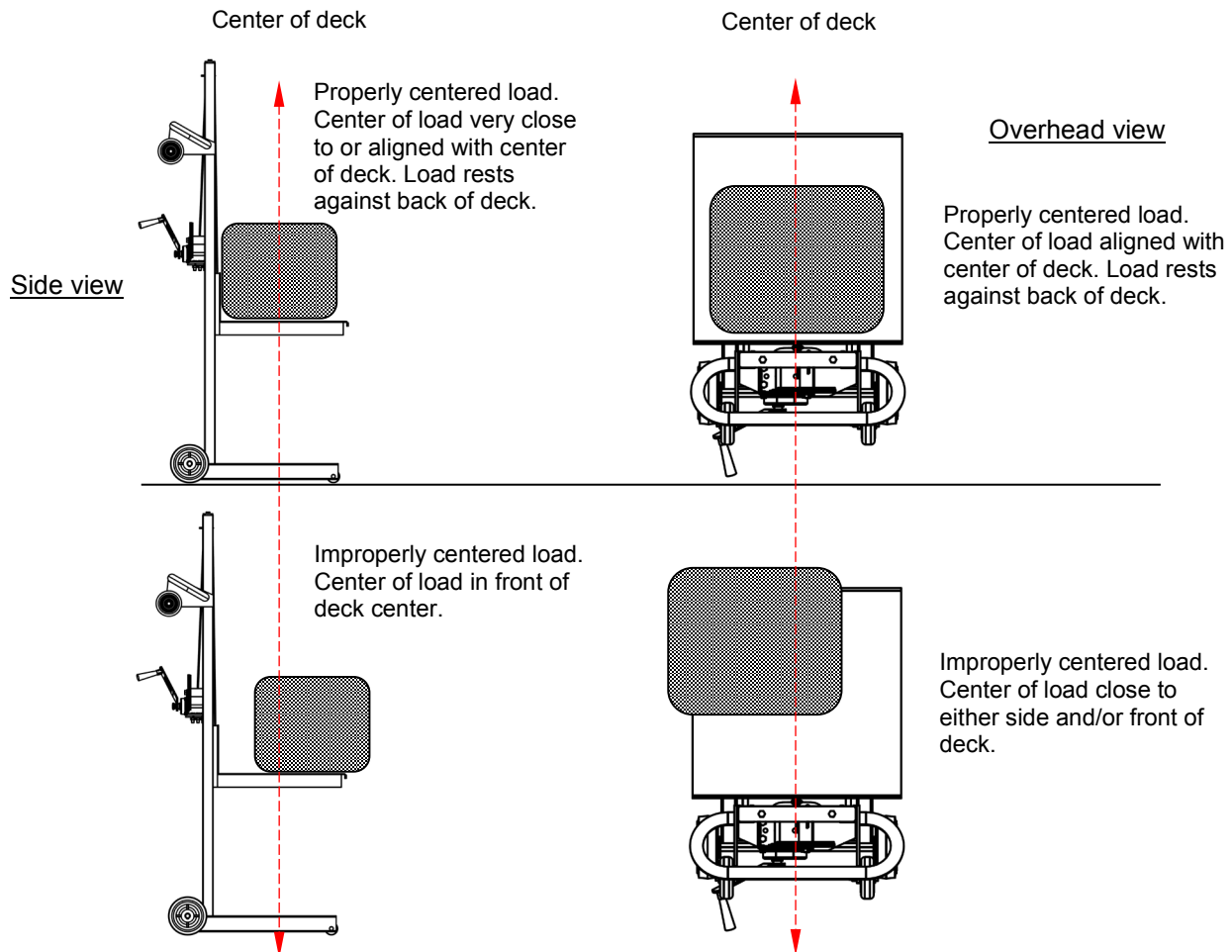
**Step 1:** Grasp the handle with both hands. Walk behind the lifter and keep your feet away from the wheels.

**Step 2:** Move the lifter to a position near the load. If the lifter is equipped with either a floor lock (option LLW-FL) or a wheel lock (option LLW-WL) engage the device to prevent the lifter from moving.



**Step 3:** Raise the deck to bring it to the level of the load. Turn the handle clockwise to elevate the deck. Turn the handle counterclockwise to lower the deck.

**Step 4:** Center the load on the deck. Secure it to the deck (with ratchet straps, for example) if necessary to prevent the load from sliding, rolling, etc.



**Step 5:** Lower the deck until it is just a few inches above the ground. Move the load to the desired location. After you arrive at the unloading destination:

- Lock the castors or set the brakes;
- Turn the handle clockwise until the load is positioned at a comfortable height;
- Rest the handle on the winch mounting bracket; and
- Remove the load.

**Step 6:** Lower the deck until it is a few inches above the legs and return the lifter to its storage location. Engage the brakes (if equipped with optional brakes) and lower the deck completely. Store the lifter in a dry, indoor location.

## RECORD OF SATISFACTORY CONDITION (THE "RECORD")

Record the condition of the hand truck before putting it into service. Thoroughly photograph the unit from multiple angles so that all operating mechanisms are clearly visible. Take close range photographs of the labeling applied to the truck. Raise and lower the deck. Describe the operation of the winch. Describe sounds heard as the deck rises and descends. How much effort is required to turn the winch? Apply the brake. Photograph the brake. Try to move the truck with the brake applied and describe how the brake resists movement. Collate all photographs and writings into a single file. Give the file a name that clearly identifies it. This file is a record of the unit in satisfactory condition. Compare the findings of all inspections to the record to determine whether the truck is in satisfactory condition. Purely cosmetic changes, like damaged paint/powder coat are not changes from satisfactory condition. However, touch-up paint to be applied to all affected areas as soon as damage occurs.



## INSPECTIONS & MAINTENANCE

Regular inspections and maintenance are necessary to keep the device in normal condition. Compare the results of each inspection to the **Record** to determine whether the unit is satisfactory condition or requires repairs or replacement parts. If you are uncertain whether a part requires repair or replacement, contact **Technical Service** for assistance.

- Periodically lubricate moving parts.
- Keep the product clean and dry.
- Only use manufacturer- approved replacement parts.

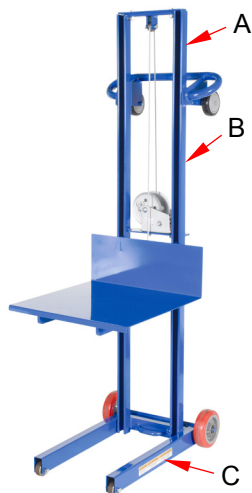
At least once every 2 weeks, inspect the following components:

- Winch, winch mounting bracket (see **Raising and lowering the deck** on p. 13), cable, and pulley: Cycle the deck up and down. Listen for unusual noises and watch for binding or rough movement as the deck moves. Examine the winch. Make sure that the spool is intact and rotates smoothly when the handle is turned. Inspect the mounting bracket. The winch should be solidly attached to the bracket. Tighten all loose fasteners. Lower the deck and examine the cable for reeving, stretching, thinning portions, etc. Confirm that the pulley rotates freely and is securely fastened to the mast.
- Frame (mast, base, deck, and deck rollers): examine the frame members for damaged welds, severe rusting, cracks, bends, etc. Remove rust with steel wool. Clean the affected areas and apply touch-up paint.
- Casters and wheels: check each caster and wheel for wobbling, damage, and severe wear. Wheels and casters should roll smoothly. Clean the casters to remove grit from the surfaces, if necessary.
- Hardware: examine the pins, bolts, nuts, etc. Tighten loose fasteners.
- Floor lock: if your unit is equipped with the floor lock option confirm that it makes solid contact with the ground when applied. Check the condition of the rubber pad. Replace the pad if wear or damage affects its function.

**Maintenance:** Implement a maintenance program to ensure that the lifter functions properly. Page 9 of ANSI/ITSDF standard B56.10-2006, "Manually propelled high lift industrial trucks", describes recommended maintenance procedures. A copy of the standard is downloadable for free from the ITSDF website (see [www.itsdf.org](http://www.itsdf.org)). Apply those recommendations in conjunction with the following steps.

- Tag the lifter, "Out of Service."
- Inspect the lifter as described above. If deformity, corrosion, rusting, or excessive wear of structural members is present, DO NOT use the lifter. If the deck does not move smoothly or makes noise as it moves up or down the upright, apply a silicon wax or silicon spray to the inside of the mast frame.
- Remove any dirt or other matter from the cable and pulleys and other lifter surfaces.
- Perform all other necessary adjustments and/or repairs. DO NOT modify the lifter.
- Make a dated record of the repairs, adjustments and/or replacements made.
- Platform, mast and platform rollers: cycle the platform up and down while listening for unusual noises and watching for binding or rough movement.

**LABELING DIAGRAM:** The unit 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. Thoroughly photograph the unit when you first receive it as discussed in the **Record of Satisfactory Condition** section of this manual. Make sure that your Record includes a photograph of each label. Modify this diagram, if necessary, to indicate labeling actually applied. Replace all labels that are, damaged, missing, or not easily readable (e.g. faded). Contact the **Replacement Parts Department** online at [http://www.vestilmfg.com/parts\\_info.htm](http://www.vestilmfg.com/parts_info.htm) to order replacement labels. You may also call (260) 665-7586 and ask the operator to connect you to the **Replacement Parts Department**.



A: Label 287 (on back side of mast)

|                                                    |            |
|----------------------------------------------------|------------|
| MODEL/MODÉLO/MODÈLE                                |            |
| STATIC CAPACITY (evenly distributed)               | _____ lbs. |
| LA CAPACIDAD CONSTANTE (distribuida uniformemente) | _____ kgs. |
| CAPACITÉ STATIQUE (distribuée régulièrement)       | _____ kgs. |
| SERIAL/SERIE/SÉRIE                                 | _____      |
| 287 REV 0812                                       |            |

C: Label 208 (on both legs)

|                              |                                          |                                              |
|------------------------------|------------------------------------------|----------------------------------------------|
| <b>⚠ WARNING</b>             | <b>⚠ ADVERTENCIA</b>                     | <b>⚠ AVERTISSEMENT</b>                       |
| KEEP CLEAR OF<br>PINCH POINT | MANTENGASE ALEJADO DEL<br>PUNTO DE CORTE | SE TENIR À DISTANCE DU<br>POINT DE PINCEMENT |
| 208A                         |                                          |                                              |

B: Label 527 (on back side of mast)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>⚠ WARNING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>Only trained, authorized persons should operate this device. Improper operation might result in serious personal injuries sustained by the truck operator and/or bystanders. Operators must observe the following safety-enhancing practices:</p> <ul style="list-style-type: none"> <li>• <b>BEFORE</b> operating, inspect mast, carriage, forks/deck, cable/chain, wheels, and brakes for damage. <b>DO NOT</b> use if damaged.</li> <li>• <b>ALWAYS</b> walk travel path before using truck to identify hazards:             <ul style="list-style-type: none"> <li>1. <b>DO NOT</b> contact electrical lines or overhead objects with device or load.</li> <li>2. <b>DO NOT</b> travel up/down inclines if an alternate route is available.</li> <li>3. <b>DO NOT</b> travel over debris.</li> </ul> </li> <li>• <b>ONLY</b> travel with forks/deck in lowest position appropriate for conditions.</li> <li>• <b>ALWAYS</b> center and evenly distribute loads on forks/deck.</li> <li>• <b>ALWAYS</b> secure load to forks/deck.</li> <li>• <b>ONLY</b> drive or operate truck functions from operator position.</li> <li>• <b>DO NOT</b> exceed maximum rated load (capacity).</li> <li>• <b>DO NOT</b> allow people to ride on device.</li> <li>• <b>DO NOT</b> lift loads over people. <b>DO NOT</b> permit people to walk beneath the forks/deck when raised (loaded or unloaded).</li> <li>• <b>DO NOT</b> leave unattended UNTIL fully lowered AND unloaded.</li> <li>• <b>DO NOT</b> modify device in any way.</li> </ul>                                                                                                                                            |
| <b>⚠ ADVERTENCIA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>Solo personal entrenado y autorizado deben operar este equipo. La operación inadecuada podría resultar en daños serios al operador del camión y/o a los transeúntes. Los operadores deben observar y seguir las siguientes prácticas de seguridad:</p> <ul style="list-style-type: none"> <li>• <b>ANTES</b> de usar, inspeccione el estado del equipo, las horquillas/plataforma, cable, cadena, ruedas y frenos por daños. <b>NO</b> use si se observan daños.</li> <li>• <b>SIEMPRE</b> camine el trayecto de viaje antes de usar el camión para identificar riesgos:             <ul style="list-style-type: none"> <li>1. <b>NO</b> toque las líneas eléctricas u objetos altos con el dispositivo o la carga.</li> <li>2. <b>NO</b> viaje sobre desechos.</li> </ul> </li> <li>• <b>SOLO</b> viaje con las horquillas/plataforma en la posición de descenso más apropiada para las condiciones.</li> <li>• <b>SIEMPRE</b> centre y distribuya las cargas uniformemente en las horquillas/plataforma.</li> <li>• <b>SIEMPRE</b> asegure la carga a las horquillas/plataforma.</li> <li>• <b>SOLO</b> conduzca u opere las funciones del camión desde la posición del operador.</li> <li>• <b>NO</b> exceda la capacidad máxima tasada de carga.</li> <li>• <b>NO</b> permita que la gente viaje en el equipo.</li> <li>• <b>NO</b> eleve las cargas sobre la gente. <b>NO</b> permita que la gente camine debajo de las horquillas/plataforma cuando este elevada (con carga o sin carga).</li> <li>• <b>NO</b> deje el equipo desatendido <b>HASTA</b> que este completamente cargado y descargado.</li> <li>• <b>NO</b> modifique el equipo de ninguna manera.</li> </ul> |

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

| US Mail                                                                                     | Fax                                              | Email                                                                                                         |
|---------------------------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Vestil Manufacturing Corporation<br>2999 North Wayne Street, PO Box 507<br>Angola, IN 46703 | (260) 665-1339<br><u>Phone</u><br>(260) 665-7586 | <a href="mailto:info@vestil.com">info@vestil.com</a><br>Enter "Warranty service request"<br>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 90 days. For wearing parts, the warranty period is 90 days. 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;
- Unauthorized modifications: 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 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. 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.

