



Vestil Manufacturing Company

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HM-B Manual Trailer Dollies



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, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

TECHNICAL SERVICE & REPLACEMENT PARTS

For answers to questions not addressed in these instructions or to order replacement parts, labels, and accessories, contact our Technical Service and Parts Department at (260) 665-7586. You can also reach the department online at <https://www.vestil.com/page-parts-request.php>.

ELECTRONIC COPIES OF INSTRUCTION MANUALS

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

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SPECIFICATIONS

The HM-Series Trailer Dolly/Mover is designed to manually move trailers with ease in industrial and commercial settings. They feature removable hitch balls and adjustable handles for ease of use. Key features include:

- **Removable Hitch Ball:** Available in 1 7/8", 2", or 2 5/16" sizes depending on the model.
- **Adjustable Handle:** 3-position adjustable handle for ergonomic use.
- **Kickstand:** Allows the dolly to be stored upright when not in use.
- **Towable Design:** Can be towed in the bottom handle position with the handle removed.
- **Durable Construction:** Made from steel with a powder-coated finish for longevity.

The following table provides specifications for each model:

Model	Capacity (lb.)	Overall Width (in)	Overall Length (in)	Hitch Ball Size (in)	Handle Height Adjustment (in)	Wheel Size (in)	Weight (lb.)
HM-B178	1,000	22 1/8	36 3/8 - 51 5/8	1 7/8	9 3/4 - 43 3/4	3 1/8 x 10	42.07
HM-B200	1,000	22 1/8	36 3/8 - 51 5/8	2	9 3/4 - 43 3/4	3 1/8 x 10	42.28
HM-B2516	1,000	22 1/8	36 3/8 - 51 5/8	2 5/16	9 3/4 - 43 3/4	3 1/8 x 10	43.01

NOTE: 1kg = 2.2lb.; 1in = 2.54cm

SIGNAL WORDS

SIGNAL WORDS appear in this manual to draw the reader's attention to important safety-related messages. The following are signal words used in this manual and their definitions.

⚠ DANGER	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.
⚠ WARNING	Identifies a hazardous situation which, if not avoided, COULD result in DEATH or SERIOUS INJURY.
⚠ CAUTION	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 product.

SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products but cannot anticipate every possible situation. The end-user is responsible for safe operation and maintenance practices.

⚠ WARNING

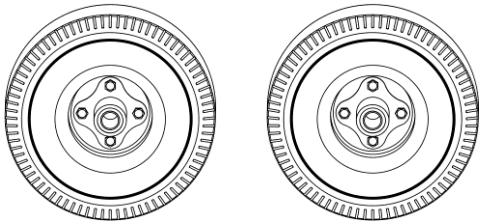
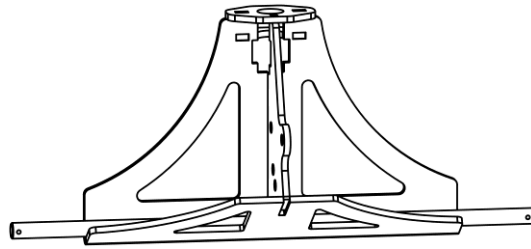
Risks of serious personal injuries or death.

- Read and understand this manual before using the trailer dolly.
- Ensure the trailer weight does not exceed the dolly's capacity (1,000 lb.).
- Do not use the dolly to move trailers up or down sloped terrain. Use the dolly on level, stable surfaces ONLY.
- Wear appropriate personal protective equipment (PPE), such as gloves and safety shoes.
- Keep hands and feet clear of moving parts.
- Do not modify the dolly without manufacturer approval.
- Inspect the dolly regularly for signs of wear or damage.
- Do not use the dolly if it is damaged or malfunctioning.
- Ensure the hitch is securely attached to the trailer before moving.
- Use proper lifting techniques when maneuvering the dolly or trailer to prevent back strain or injury.
- Maintain clear visibility while moving the trailer to avoid collisions with obstacles, personnel, or equipment. Be aware of obstructions and tripping hazards while using the dolly.

COMPONENTS OF THE TRAILER DOLLY

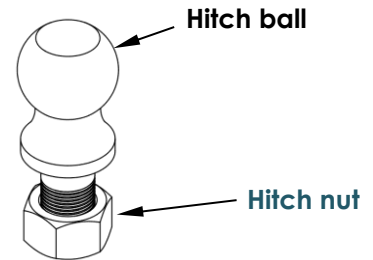
An HM-Series Trailer Dolly consists of the following key components, each designed to ensure safe and efficient operation:

- **Frame (16-514-364):** The main body of the dolly, constructed from durable steel with a powder-coated blue finish for corrosion resistance. The frame supports the hitch ball and connects to the wheels and handle, providing structural integrity for the dolly's 1,000 lb. capacity.

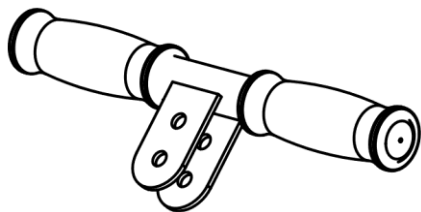
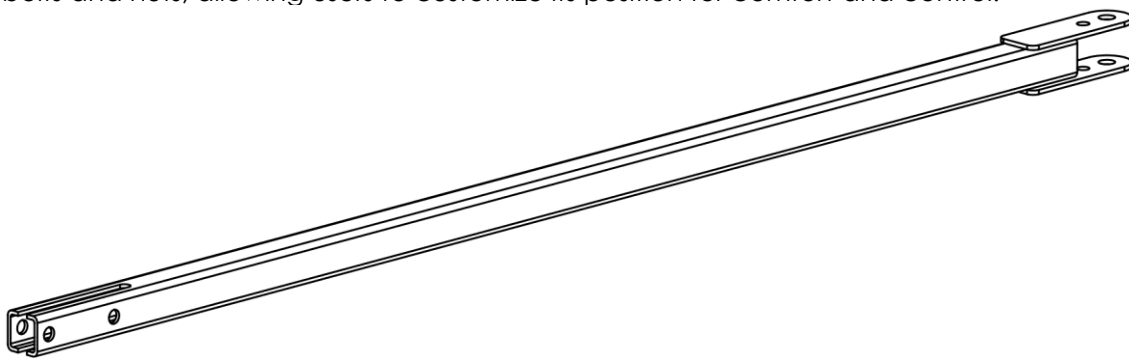


- **Wheels(16-132-240):** Two large wheels (3 1/8" x 10") provide stability and ease of movement over various surfaces. These wheels are engineered to support the dolly's load and facilitate smooth transport.

- **Ball Hitch + Nut (16-145-028):** A removable hitch ball that attaches to the trailer coupler. Available in three sizes depending on the model:
 - HM-B178: 1 7/8" hitch ball
 - HM-B200: 2" hitch ball
 - HM-B2516: 2 5/16" hitch ball
 The hitch ball ensures a secure connection between the dolly and the trailer.

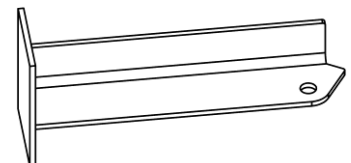


- **Handle (16-514-365):** An adjustable handle that can be set to three positions (top, middle, bottom) for ergonomic use during manual movement or towing. The handle is secured with bolts and nuts, allowing users to customize its position for comfort and control.

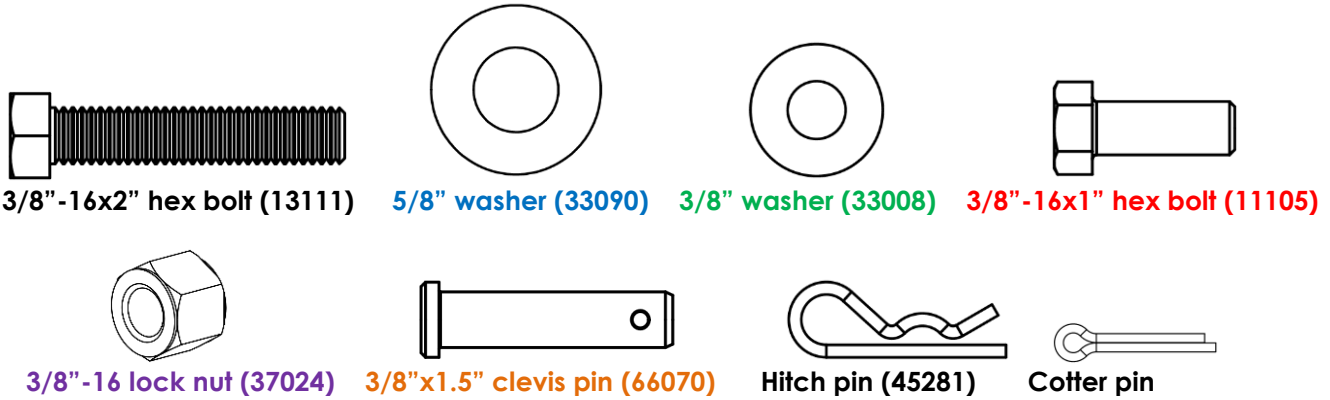


- **Operator Hand Grip subassembly (16-525-042+15-025-006+21-024-038):** A component providing an operator interface. Foam handle grips are included for operator comfort. HM-B dollies are shipped with the handle subassembly fastened to the handle.

- **Kickstand (16-514-366):** A retractable kickstand that allows the dolly to be stored upright when the handle is in the middle position. It provides stability when the dolly is not in use, preventing tipping.



- **Hardware:** Includes bolts, nuts, and washers used to secure the handle and other components. All hardware is designed for durability and ease of assembly, ensuring a reliable setup.



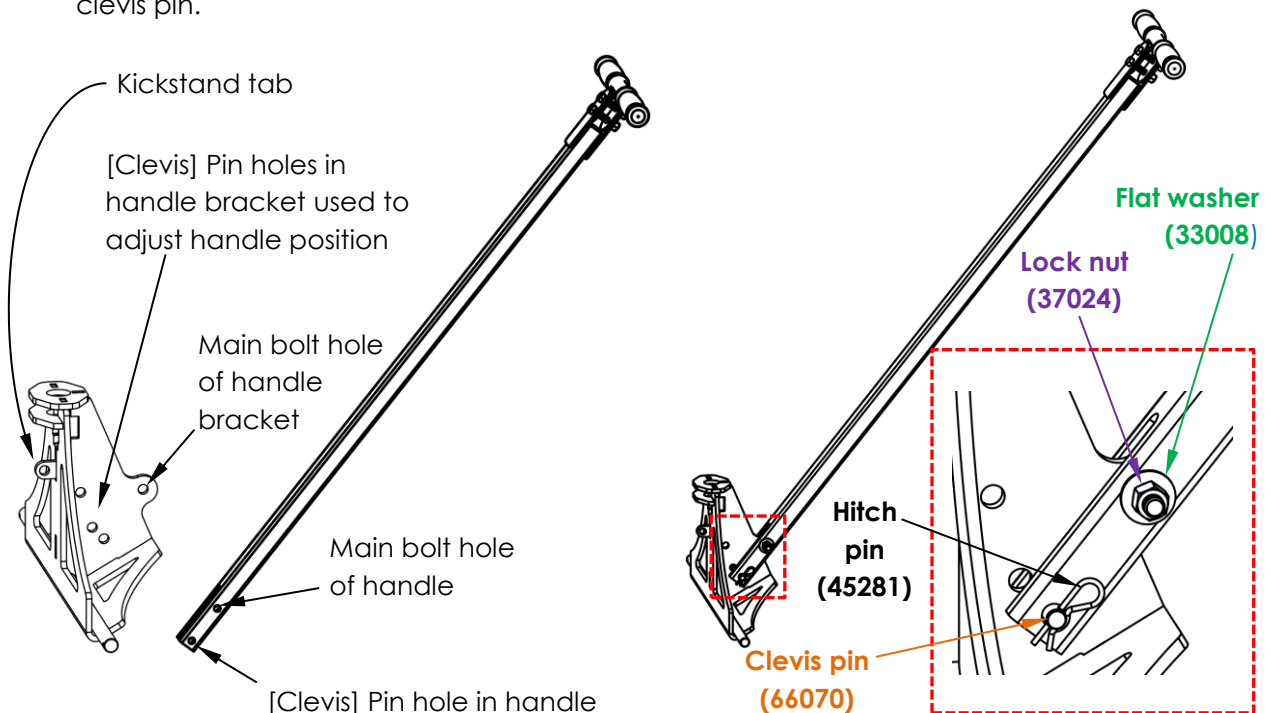
Note: Refer to the exploded views and parts lists (e.g., "Exploded view HM-B178 16-006-528") for detailed diagrams and part numbers of each component.

ASSEMBLING THE TRAILER DOLLY

The HM-Series Trailer Dolly/Mover comes partially assembled. Follow these steps to complete the assembly:

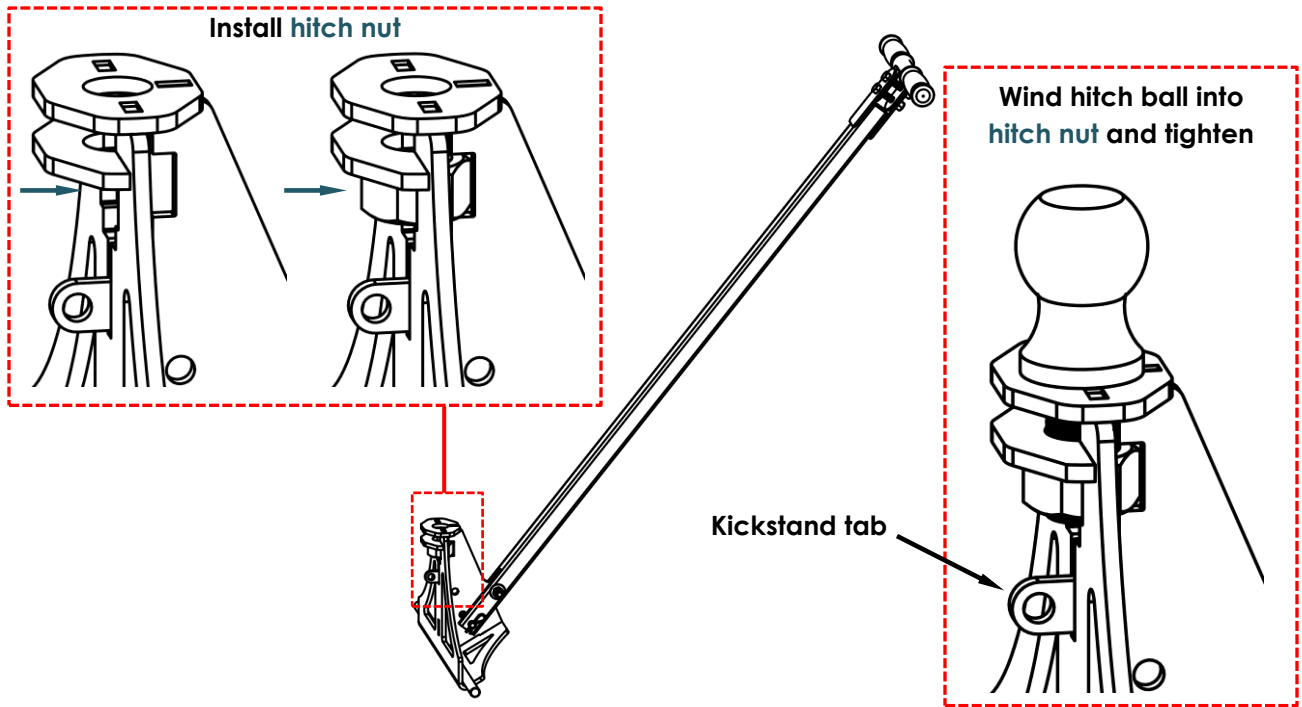
1. Attach the Handle:

- Insert the handle slot around the handle bracket.
- Align the main bolt hole in the handle with the main bolt hole in the handle bracket.
- Install the 3/8"-16x2" hex bolt (13111) through the aligned main bolt holes.
- Put a 3/8" flat washer (33008) on the end of the bolt; then thread a lock nut (37024) onto the bolt.
- Determine the desired configuration of the handle (top, middle, or bottom).
- Align the pin holes on the handle with the appropriate pin hole in the bracket. Then, insert the 3/8"x1 1/2" clevis pin (66070) through the aligned holes.
- Secure the clevis pin by inserting the hitch pin (45281) through the pin hole in the end of the clevis pin.



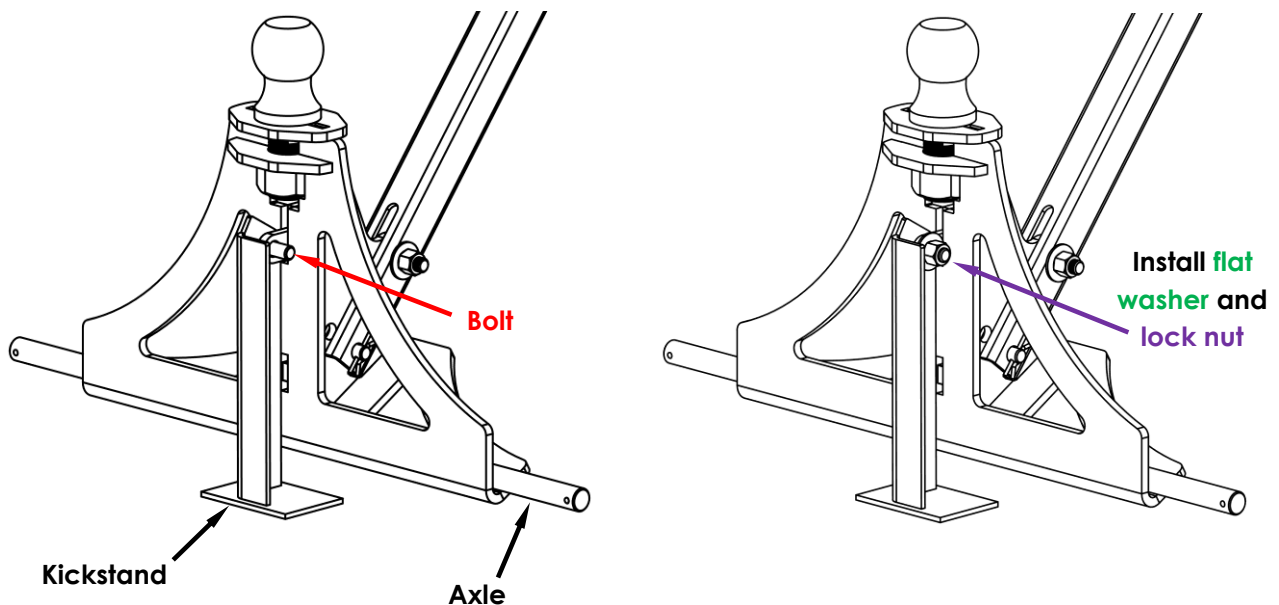
2. Install the Hitch Ball:

- Unscrew the hitch nut from the ball hitch. Then, set the hitch nut in the hitch nut receiver.
- Thread the hitch ball into the designated hole on the dolly.
- Tighten securely using a pipe wrench or adjustable crescent wrench.



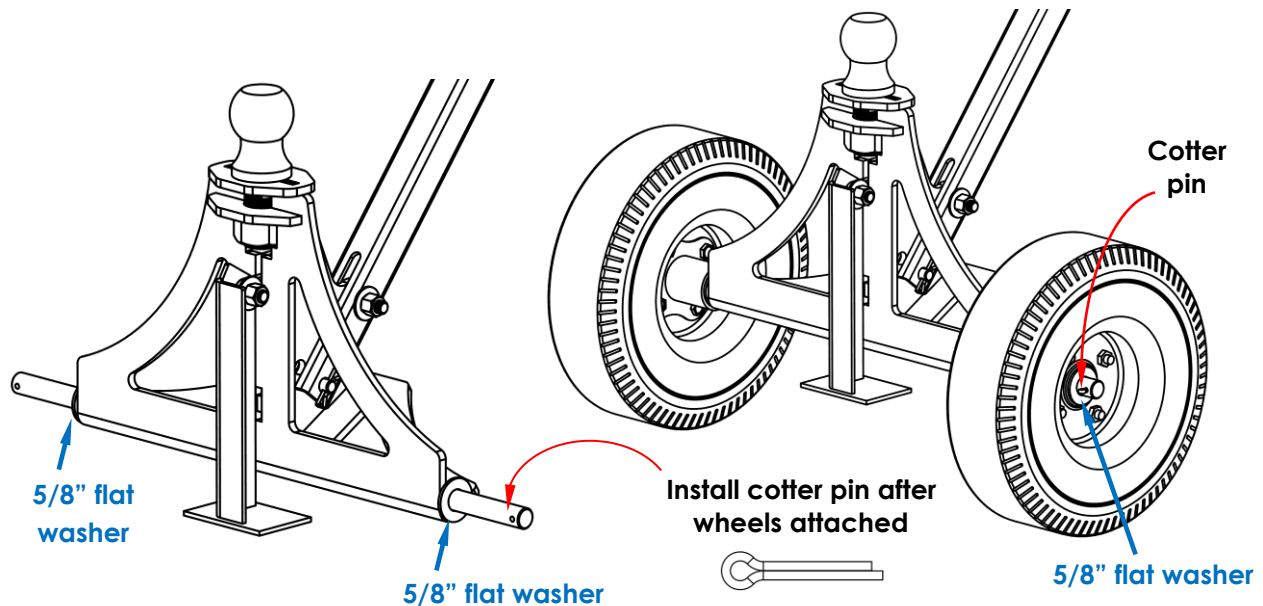
3. Install the Kickstand (16-514-366):

- Align the bolt hole in the kickstand with the bolt hole in the kickstand tab. See diagrams in steps 1 & 2.
- Insert the **3/8"-16x1" hex bolt (11105)** through the aligned bolt holes.
- Slide a 3/8" flat washer (33008) onto the end of the bolt.
- Secure the bolt with a 3/8"-16 lock nut (37024).



4. Attach the Wheels:

- Put a **flat washer (33090)** onto each axle.
- Slide a wheel onto each side of the axle with wheel hubs facing each other.
- Install another flat washer on each side.
- Insert a cotter pin (65076) through the pin hole on each side. Then, bend the arms of the cotter pins in opposite directions around the axle.

**5. Check All Connections:**

- Ensure all bolts and nuts are tightened properly.
- Verify that the handle and hitch ball are securely attached.

RECORD OF SATISFACTORY CONDITION

After assembling the HM-Series Trailer Dolly/Mover and before putting it into service, document its condition. This record will serve as a baseline for future inspections and maintenance.

1. Take photographs and/or videos from multiple angles, including:

- Overall view of the assembled dolly
- Close-ups of the wheels, hitch ball, handle, and kickstand
- Any labels or markings on the product

2. Note the following observations:

- Condition of the paint or coating (e.g., no scratches, chips, or rust)
- Tightness of all bolts and nuts
- Smoothness of wheel rotation and handle adjustment
- Proper functioning of the kickstand

3. Collect all photographs, videos, and notes in a file to serve as a record of the unit in satisfactory condition.

Use this Record for comparison during future inspections. Do not use the trailer dolly unless it is in satisfactory condition. Address any changes or damages promptly.

OPERATING THE TRAILER DOLLY

Follow these steps to safely operate the HM-Series Trailer Dolly/Mover:

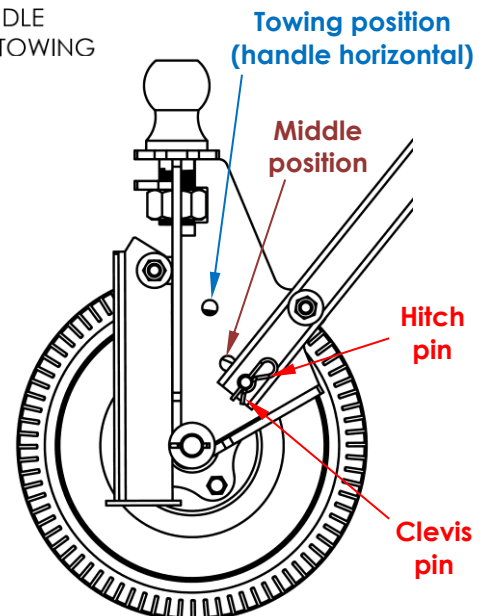
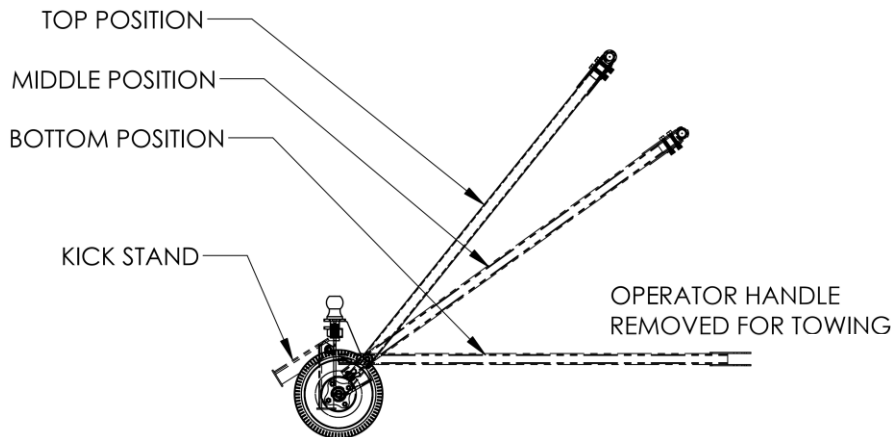
1. **Position the Dolly:**
 - o Move the dolly near the trailer hitch.
2. **Adjust the Handle Height:**
 - o Set the handle to a comfortable height. See [Adjusting the Handle Position](#) below.
3. **Attach the Hitch:**
 - o Align the hitch ball with the trailer coupler.
 - o Lower the coupler onto the hitch ball.
 - o Secure the coupler latch to lock the hitch in place.
4. **Move the Trailer:**
 - o Use the handle to push or pull the trailer to the desired location.
 - o Move slowly and carefully, especially on inclines.
5. **Unhitch the Trailer:**
 - o Release the coupler latch.
 - o Lift the coupler off the hitch ball.



ADJUSTING THE HANDLE POSITION

The handle can be adjusted to three positions for different uses:

- **Top Position:** For manual moving of lighter loads.
- **Middle Position:** For manual moving of heavier loads or for storage with the kickstand.
- **Bottom Position:** For towing (operator hand grip subassembly must be removed).



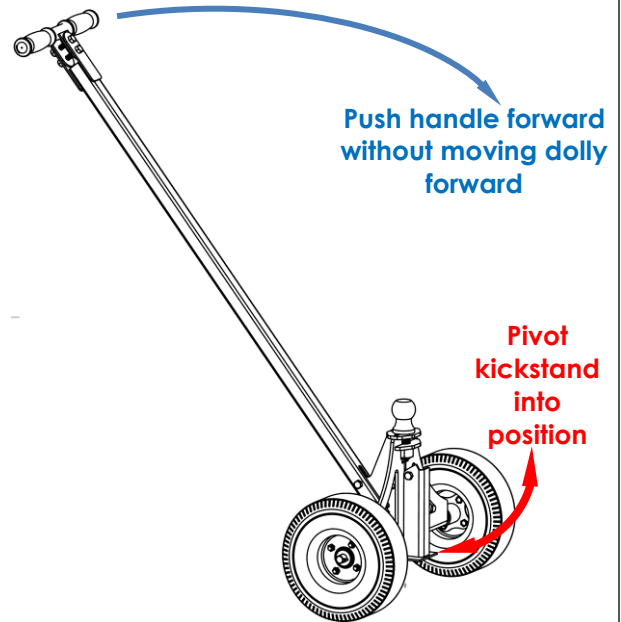
To adjust the handle:

1. Remove hitch pin from the clevis pin; then remove the clevis pin at the base of the handle.
2. Adjust the handle to the desired position by aligning the clevis pin holes in the handle with the appropriate pin hole in the handle bracket.
 NOTE: To put the dolly into the towable configuration, the operator hand grip subassembly (fastened to the top of the handle) must be removed. See [COMPONENTS OF TRAILER DOLLY](#) on p. 3.
3. Reinsert the clevis pin and secure it with the hitch pin.

USING THE KICKSTAND

The kickstand allows the dolly to be stored upright when not in use:

1. Set the handle to the *middle* position. See [ADJUSTING THE HANDLE POSITION](#) on p. 7.
2. Pivot the dolly onto the kickstand by pushing the handle forward without moving the dolly forward. If necessary, extend the kickstand by pulling it away from the dolly frame. As long as the kickstand can rotate freely, i.e. the fasteners are not too tight), it should rotate into place as the dolly pivots forward.
3. Ensure the dolly is stable before leaving it unattended.

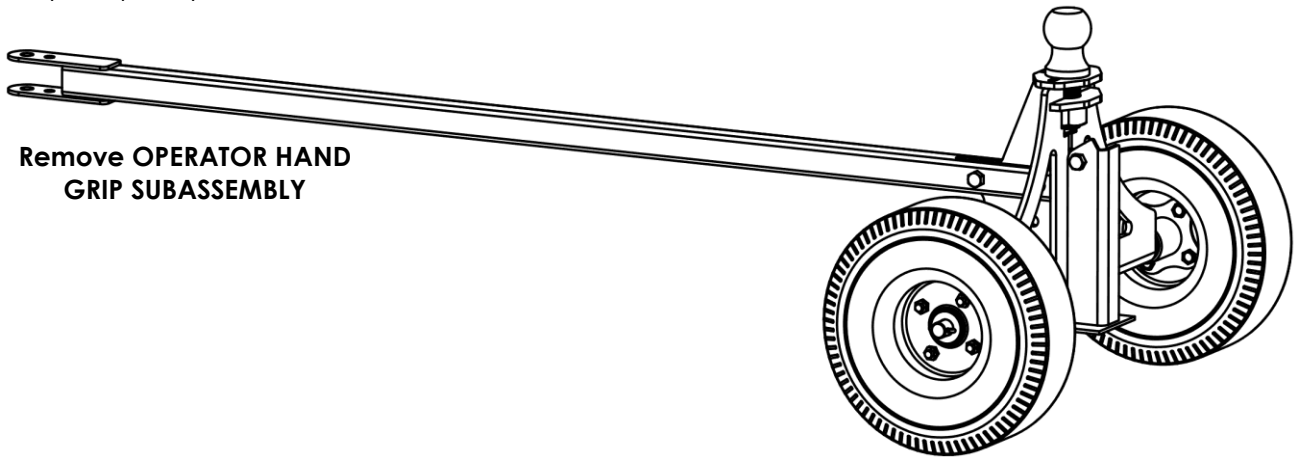


PREPARING FOR TOWING

The dolly can be towed when the handle is in the bottom position and removed:

1. Set the handle to the bottom position.
2. Remove the operator hand grip subassembly by unscrewing the bolts. See [COMPONENTS OF THE TRAILER DOLLY](#) p. 3.
3. Attach the dolly to the towing vehicle using the hitch ball.
4. Ensure the towing vehicle is compatible and the connection is secure.

CAUTION: Do not exceed the recommended towing speed and ensure the trailer weight is within the dolly's capacity.



INSPECTING & MAINTAINING THE TRAILER DOLLY

Inspections and repairs should only be performed by qualified persons. Compare the results of each inspection to the [RECORD OF SATISFACTORY CONDITION](#). Do not continue to use the trailer dolly unless all parts are in satisfactory condition. Replace parts that are not in satisfactory condition before returning the unit to regular service. Never make temporary repairs of damaged or missing parts. Only use manufacturer-approved replacement parts to restore the unit to satisfactory condition. If you have any questions about the condition of your trailer dolly, contact the [TECHNICAL SERVICE](#) department at (260) 665-7586.

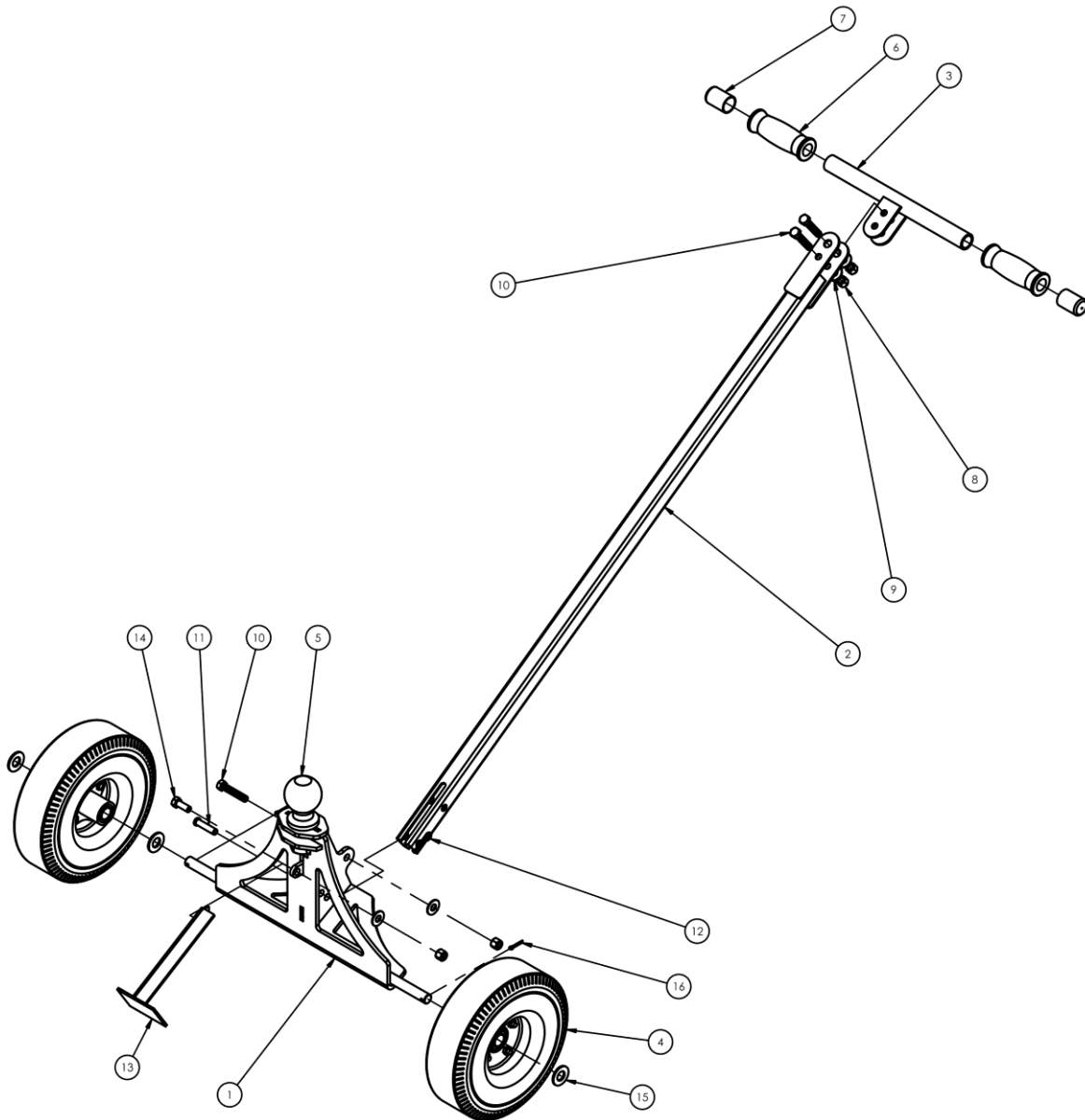
- **Inspect Regularly:** Check for signs of wear, damage, or loose components, including wheels, hitch ball, handle, and kickstand. Inspect for dents, cracks, or corrosion that could compromise functionality.
- **Lubricate Moving Parts:** Apply lubricant to wheels and pivot points as needed to ensure smooth operation.
- **Clean After Use:** Remove dirt and debris, especially from the hitch ball and wheels, to prevent corrosion.
- **Tighten Fasteners:** Regularly tighten any loose bolts or nuts to maintain structural integrity.
- **Recoat or Repaint:** Apply protective coatings or paint as needed (match original finish) to prevent corrosion, especially in harsh environments.
- **Store Properly:** Store the dolly in a dry, protected area when not in use to prevent damage from weather or environmental factors.

TROUBLESHOOTING

Issue	Possible Cause	Solution
Difficulty moving the trailer	Trailer weight exceeds capacity	Reduce the load or use a higher capacity dolly
	Uneven or unstable surface	Move to a level, stable surface
	Wheels obstructed or damaged	Clear debris or replace wheels
Hitch not securing properly	Misaligned hitch ball and coupler	Realign and secure the hitch
	Damaged hitch ball or coupler	Replace damaged components
Handle not adjusting	Bolts too tight or rusted	Loosen bolts or apply lubricant
Dolly unstable when stored	Kickstand not fully extended	Fully extend the kickstand

EXPLODED VIEW AND BILL OF MATERIALS

16-006-528



Item	Part no.	Description	QTY.	Item	Part no.	Description	QTY.
1	16-514-364	WELDMENT, FRAME SUB-ASSEMBLY	1	9	33008	FLAT WASHER, LOW CARBON, USS, ZINC PLATED, 3/8"	4
2	16-514-365	WELDMENT, FRAME, HANDLE SUB-ASSEMBLY	1	10	13111	HHCS #5 Z PLATED, GRADE 5, Ø3/8 - 16 x 2 LG	3
3	16-525-042	WELDMENT, HANDLE SUB-ASSEMBLY	1	11	66070	CLEVIS PIN, LOW CARBON STEEL, Ø3/8 x 1 1/2"	1
4	16-132-240	WHEEL, 10", FOAM FILLED	2	12	45281	0.093 X 1 5/8 HAIRPIN COTTER, 1/4 - 1/2 SHAFT	1
5	16-145-028 16-145-029 16-145-040	HARDWARE, SPECIALTY TOW BALL: 1-7/8 (HM-B178) TOW BALL: 2" (HM-B200) TOW BALL: 2-5/16" (HM-B2516)	1	13	16-514-366	WELDMENT, FRAME, KICK STAND SUB-ASSEMBLY	1
6	15-025-006	GRIP, HANDLE	2	14	11105	HEX BOLT, GRADE A, ZINC PLATED, 3/8"-16 X 1"	1
7	21-024-038	HANDLE, GRIP, FLEXIBLE VINYL ROUND CAP	2	15	33090	WASHER, FLAT, SAE, 5/8	4
8	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	4	16	65076	Ø1/8" X 1" COTTER PIN, Z-PLATED	2



LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants HM-B series trailer dollies 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
Vestil Manufacturing Company
2999 North Wayne Street, PO Box 507
Angola, IN 46703

Fax
(260) 665-1339
Phone
(260) 665-7586

Email
info@vestil.com
Enter "Warranty service request" 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) are 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 Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.