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YR SERIES YARD RAMPS

MODEL YR-16-7230

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 and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 6 65-7586. The department can also be contacted online at https://www.vestil.com/page-parts-request.php.

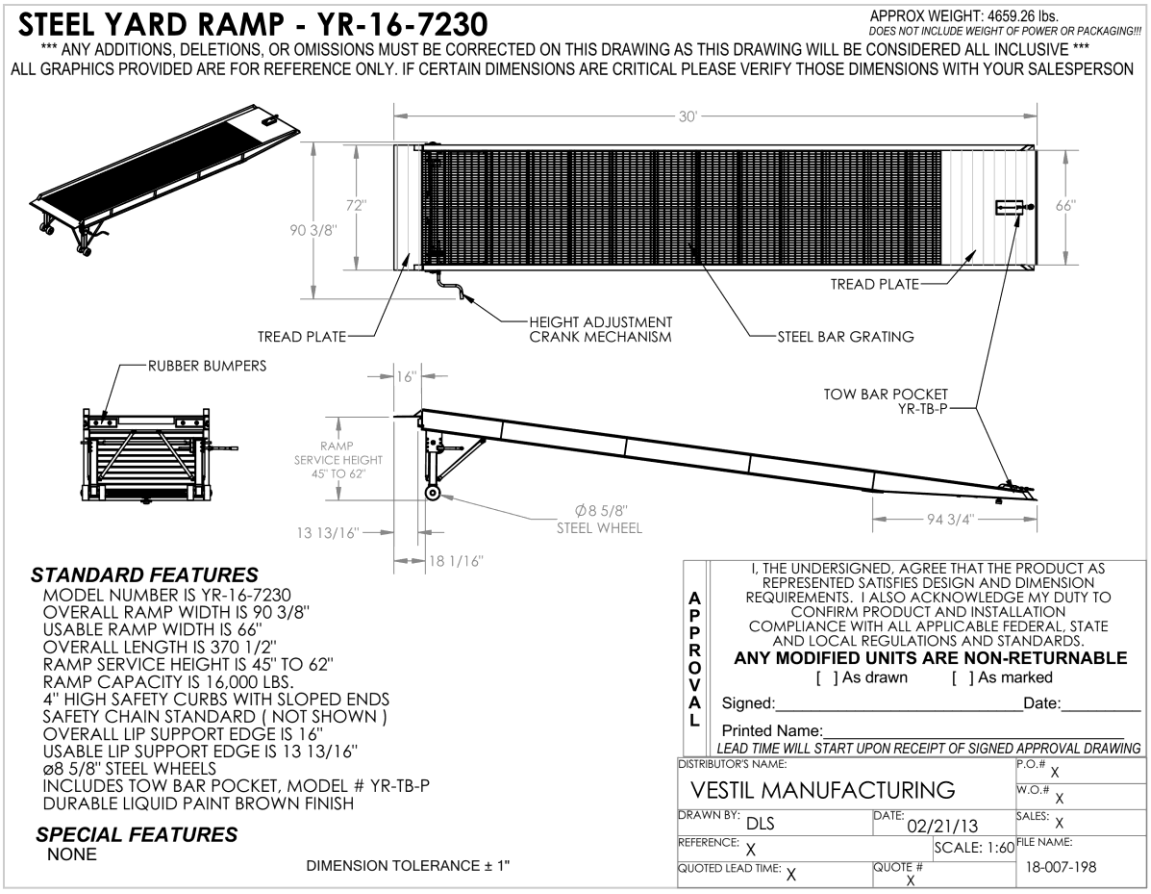
Electronic copies of Instruction Manuals

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

Table of Contents

SPECIFICATIONS

Documents that provide specifications for YR, YRD, and YRDS-series steel yard ramps are available online to anyone who visits Vestil's website. Specifications include dimensions, net weight, and capacity information. To access the appropriate specifications document, navigate to the yard ramps webpage at https://www.vestil.com/product.php?FID=28. Scroll the page to the entry for the ramp you purchased. Click the button in the "PDF" column that looks like a pencil inside a blue box. A PDF file will open. This file is the specifications document. Print a copy of the document and keep it with your copy of this manual. The following is an exemplar specification document, in this case, for model YR-16-7230.



NOTE: YR-series ramps are designed to comply with relevant portions of OSHA 29 CFR 1910.26 (Dockboards) and ANSI MH30.2 (Portable Dock Leveling Devices). These standards address secure positioning, slope limitations (no more than 1 vertical to 3 horizontal), handholds for safe handling, and fall protection where applicable (e.g., guardrails if fall hazard exceeds 4 feet). Users must ensure compliance with all applicable federal, state, and local regulations, including OSHA requirements for forklift operations on ramps (29 CFR 1910.178) and walking-working surfaces. YRDS models are stationary variants without wheels for mobility.

SIGNAL WORDS

SIGNAL WORDS appear in this manual to draw the reader's attention to important safety-related messages.

⚠ 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

Reduce the likelihood of injuries by being mindful of the hazards identified below, & by inspecting & maintaining the product as instructed in the applicable *INSPECTING & MAINTAINING THE RAMP* section.

⚠WARNING

Risks of death or serious personal injuries.

- Read and understand this entire manual before installing, assembling, using, or servicing this yard ramp. Keep this manual in a location known to persons who use the ramp. Read the manual regularly to refresh your understanding of proper use, inspection, and maintenance procedures.
- DO NOT attempt to repair the ramp unless you are qualified to do so.
- DO NOT modify the product in any way. Unauthorized modifications automatically void the *LIMITED WARRANTY* on p. 21 and might make the ramp unsafe to use.
- Inspect the ramp according to the applicable *INSPECTING & MAINTAINING THE RAMP* instructions (p. 8 & p. 11-12).
- Do not use the ramp unless it is in *SATISFACTORY CONDITION*. See *RECORD…*, p. 7 or 10-11.
- DO NOT exceed the capacity of you ramp. The net weight of any forklift, its operator, and load carried must not exceed the capacity of your ramp. Capacity figures appear in your specification document. Also see labels in the applicable *LABELING DIAGRAM* on p. 31 & 32.
- Maintain personnel height and safe distance from the ramp while it is in use.
- DO NOT go underneath the ramp while it is in use.
- Verify the legibility of all labels shown in the applicable *LABELING DIAGRAM* on p. 31 & 32. DO NOT use the ramp UNLESS all labels are present and easily readable. Contact the TECHNICAL SERVICE DEPT. to order replacement labels. Contact information for the *TECHNICAL SERVICE DEPT.* is provided on the cover page.
- DO NOT ride on the ramp while it is moved.
- DO NOT stand on the ramp while a vehicle backs up to it. Direct the driver of the vehicle from the side of the ramp. Make sure that the driver can see you at all times. DO NOT approach the vehicle or ramp until the vehicle is put into park. Then, adjust the position and height of the ramp to bring the lip of the ramp into solid contact with the vehicle. See label 622 in *LABELING DIAGRAM* on p. 19.
- DO NOT traverse the ramp, e.g. to unload a vehicle (or trailer) unless the front lip of the ramp and the bed of the vehicle overlap by at least 4 inches (~10.2cm). See label 903 in *LABELING DIAGRAM* on p. 19.
- Walk/drive the centerline of the ramp and avoid the edges.
- DO NOT move the ramp by pushing it from the side UNLESS your ramp is equipped with option YR-FS (forklift pickup slots). Pushing the ramp from the side might damage the wheels and/or landing gear (applies to mobile models only).
- Ensure the ramp slope does not exceed 1 vertical to 3 horizontal (approximately 20 degrees) to comply with OSHA and ANSI guidelines.
- Secure the ramp to prevent slipping or displacement during use, as per OSHA 1910.26.
- Use wheel chocks on vehicles and ramps as required by OSHA and state regulations.

ADDITIONAL WARNINGS FOR AVAILABLE OPTIONS & UPGRADES

If your ramp includes any of the following options, observe these additional safety instructions:

- **YR-DH (Lip Holes to Lag to Dock)**: Securely lag the bridge plate to the dock with appropriate hardware rated for the ramp's weight and usage. Inspect hardware before each use for loosening or damage. DO NOT use the ramp if attachment is compromised, as this could lead to shifting or tipping during loading/unloading.
- **YR-FS (Forklift Pickup Slots)**: When using forklift slots for positioning, ensure forks are fully inserted and centered before lifting. DO NOT exceed the ramp's rated capacity during repositioning. Verify stable ground and clear area before moving to avoid tipping or damage to wheels/landing gear.
- **YR-GR-30 or YR-GR-36 (Guard Rails)**: Use guard rails only for fall protection while walking on the ramp. DO NOT climb on, lean against, or use the rails as lifting/tie-off points. Inspect for secure attachment and damage before each use.
- **YR-HDRL (Welded Steel Handrail)**: Use handrails only for fall protection; DO NOT climb on, lean against, or use as lifting/tie-off points. Inspect welds and attachment points for cracks or weakening before each use.

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⚠WARNING

- **YR-HL (Manual Hydraulic Hand Pump Lift with Pneumatic Tires)**: Inspect hydraulic components for leaks before use. DO NOT operate if leaks are discovered or if fluid level is low as this could cause sudden drops. DO NOT go under the raised ramp. Ensure tires are adequately inflated and inspect them for damage. Damaged tires or unevenly inflated tires could cause ramp instability.
- **YR-HL-DC (12V DC Power Unit Lift with Pneumatic Tires)**: Inspect electrical components, battery, and wiring for damage or corrosion before use. DO NOT operate if connections are loose or exposed, as this could cause electrical shocks or fires. Charge the battery only in a well-ventilated area away from open flames, using the on-board charger as instructed. Ensure tires are adequately inflated and inspect them for damage. Disconnect power source during prolonged non-use to prevent battery drain.
- **YR-PAD (Foot Pad for Landing Gear)**: Ensure foot pads are securely attached and positioned on stable ground. Inspect for wear, cracks, or other damage that could compromise stability. DO NOT use on uneven or slippery terrain without additional stabilization, as this could lead to tipping.
- **YR-RAHDRL or YR-RHDRL (Removable Aluminum or Steel Handrails)**: Ensure handrails are securely installed before each use. Use only for fall protection. DO NOT climb on, lean against, or use as lifting/tie-off points. Inspect for damage or loose components before each use.

APPLICABLE STANDARDS

This section outlines key regulatory and national consensus standards relevant to the safe design, installation, use, and maintenance of Vestil YR-series yard ramps. Users must comply with all applicable local, state, and federal regulations, including those from OSHA. Consult with a qualified safety professional or your local OSHA office for site-specific guidance. Vestil designs its yard ramps to meet or exceed these standards where applicable.

REGULATORY STANDARDS (OSHA)

OSHA standards are enforceable under U.S. law and focus on employee safety. Access free copies of these standards at the OSHA website: https://www.osha.gov/laws-regs/regulations/standardnumber/1910.

- **29 CFR 1910.26 - Dockboards**: This standard applies directly to portable dockboards, including mobile yard ramps like the YR, YRD, and YRDS series, which bridge gaps between loading areas and vehicles. It requires that dockboards:
  - Support the maximum intended load (as per § 1910.22(b)).
  - For dockboards placed into service on or after January 17, 2017, be designed and maintained to prevent transfer vehicles (e.g., forklifts) from running off the edge, unless it can be demonstrated that no such hazard exists.
  - Be secured to prevent displacement during use (e.g., via anchoring, safety chains, or adequate surface contact).
  - Use measures like wheel chocks or sand shoes to prevent vehicle movement while employees are on the dockboard.
  - Include handholds or other means for safe handling of portable units. Vestil yard ramps incorporate features such as safety chains, rubber bumpers, and secure lips to comply with these requirements.
- **29 CFR 1910.22 - Walking-Working Surfaces**: This general standard applies to the ramp's surface as a walking and working area. It mandates that surfaces be kept clean, orderly, and in good repair; structurally sound to support loads; and free of hazards like slippery conditions or protrusions. For Vestil yard ramps, this includes maintaining the open steel grating for traction and ensuring no excessive wear or damage that could cause slips, trips, or falls.
- **29 CFR 1910.178 - Powered Industrial Trucks**: This standard governs forklift and other powered truck operations on inclines, which is relevant for yard ramps used with such equipment. It requires operators to be trained, loads to be carried uphill on inclines exceeding 10% slope, and safe practices like not turning on ramps. Yard ramps should not exceed a 20-degree incline (1:3 vertical to horizontal ratio, as referenced in related OSHA guidelines). Vestil recommends following these rules to prevent tip-overs or loss of control.

- **29 CFR 1926.451(e)(5) - Scaffolds (Ramps and Walkways)**: If the yard ramp is used in construction settings, this standard limits ramp inclines to no more than 1 vertical to 3 horizontal (20 degrees above horizontal) and requires guardrails for fall protection if the ramp is 6 feet or more above lower levels. While primarily for scaffolds, it may apply to temporary ramp use in construction.

NATIONAL CONSENSUS STANDARDS

Consensus standards are developed by industry groups and approved by organizations like ANSI. They are voluntary but often incorporated by reference into OSHA regulations or used as industry best practices for design and testing. Vestil yard ramps are designed with these in mind for enhanced safety and performance.

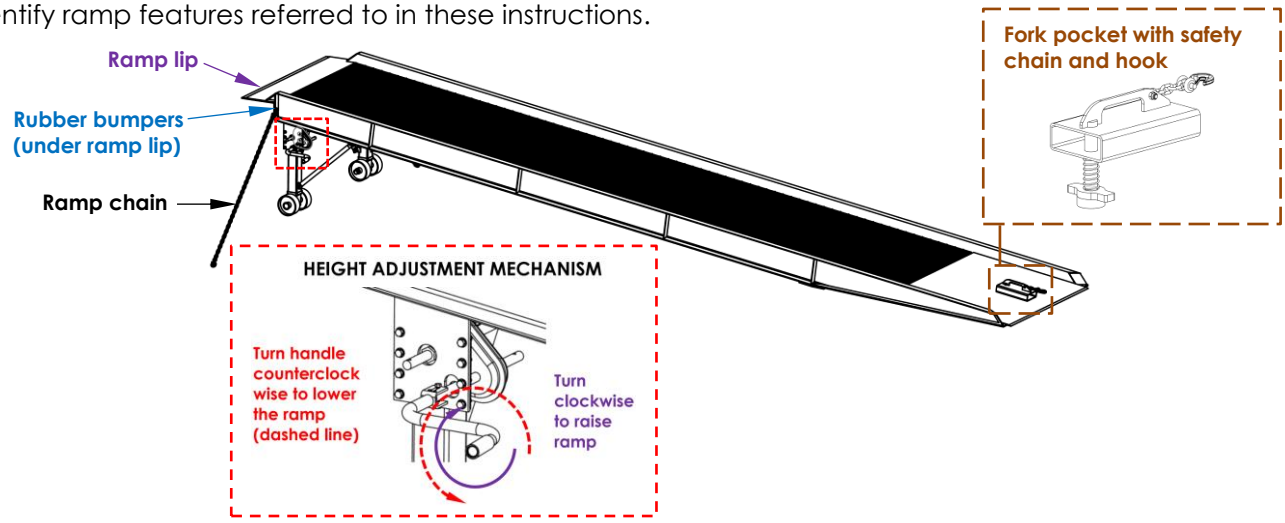
- **ANSI MH30.2 - Safety, Performance, and Testing of Portable Dock Leveling Devices (2022 Edition)**: This standard provides guidelines for the design, performance testing, and safety features of portable dock leveling devices, including mobile yard ramps. It covers aspects like load capacity testing, stability, edge protection, and durability. Compliance helps ensure ramps withstand operational stresses and minimize hazards. To acquire a copy, purchase from the ANSI Webstore at https://webstore.ansi.org/ (search for "MH30.2") or the Material Handling Industry (MHI) website at https://www.mhi.org/standards (MHI develops MH standards).
- **ANSI/ASME B56.1 - Safety Standard for Low Lift and High Lift Trucks**: This consensus standard, referenced in OSHA 1910.178, addresses forklift design and operation, including on ramps. It indirectly applies to yard ramps by ensuring compatibility with powered trucks. Obtain a copy from the ASME website at https://www.asme.org/codes-standards/find-codes-standards (search for "B56.1") or ANSI Webstore at https://webstore.ansi.org/.

Always verify that you have the latest editions, as standards are periodically revised. If your operation involves international use, consider equivalents like ISO 3691-1 for industrial trucks.

USING THE RAMP

Scan to watch the video.

YR-series ramps have landing gear that can be raised or lowered to adjust the height of the ramp lip via a mechanical height adjustment mechanism. To adjust the height of your ramp, apply the following steps. Refer to the following diagram as well as the appropriate *Exploded View* (p. 13, 14, 15, & 16) to identify ramp features referred to in these instructions.



YR-series dock ramps with manual height adjustment

1) Position the yard ramp on a level surface; then adjust the height of the elevated end of the yard ramp to be roughly 2in. above the trailer bed by rotating the handle of the height adjustment mechanism clockwise.
2) Slowly back the trailer towards the yard ramp until it solidly contacts both bumpers.
3) Turn off the engine and set the parking brake of the tow vehicle.
4) Immobilize the trailer with wheel chocks.
5) Attach the trailer to the yard ramp with the safety chains.

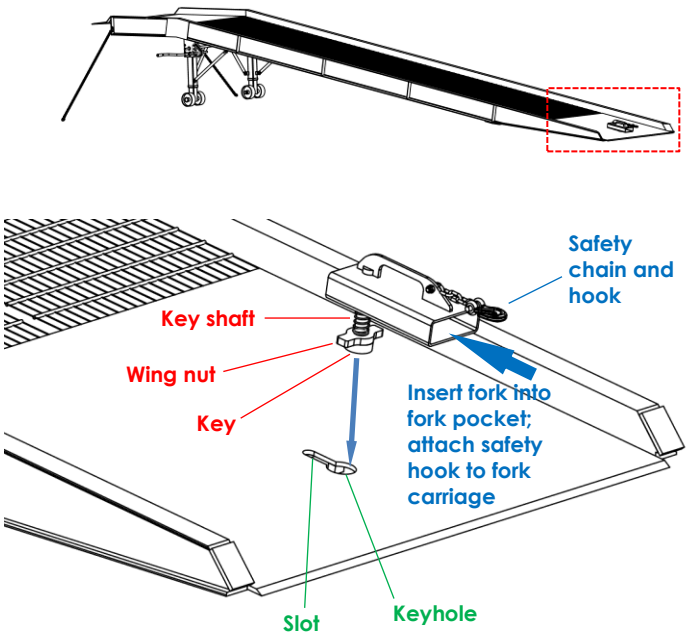
[Instructions continue on next page]

6) Turn the handle counterclockwise to retract the ramp wheels and landing gear. As the wheels retract, the ramp will lower. Continue to turn the handle until the ramp makes solid contact with the bed of the trailer. Continue turning the handle until the ramp wheels are no more than 2-3 inches from the ground to allow the ramp to float during trailer loading/unloading operations. As weight is applied to the trailer, it might be necessary to adjust the height of the ramp wheels to maintain 2-3in. clearance between them and the ground.
7) When the trailer is loaded/unloaded, turn the handle clockwise until the ramp is raised about 2in. above the trailer, and then disconnect the safety chains. The truck can now drive forward.

MOVING THE RAMP

The ramp is equipped with a detachable fork pocket towing feature (18-001-309). A "key" on the underside of the fork pocket fits into a keyhole in the surface of the bottom end of the ramp. Align the key with the circular portion of the keyhole. Press the key only (not the wing nut) into the keyhole. Then, slide the key and key shaft forward into the slot. The wing nut wound onto the key is spring-biased. Spring tension creates a clamp that pinches the ramp plate between the key and the nut. Watch the demonstration video at https://youtu.be/Wdcqy6e2bzY.

Move the ramp with a lift truck. Insert a fork into the fork pocket. Attach the safety hook to the carriage of the lift truck without slack. Raise the fork carriage sufficiently to lift the end of the ramp off of the ground. The ramp can now be *pushed* with the lift truck. ***DO NOT pull the ramp!*** Chock the wheels whenever the ramp is parked.



NOTICE

DO NOT ship or transport the ramp utilizing its undercarriage. ONLY ship or transport the ramp using flatbed shipping.

RECORD OF SATISFACTORY CONDITION (THE "RECORD") FOR STANDARD (FULLY MECHANICAL) YR MODELS

Record the condition of the ramp before putting it into service. Thoroughly photograph the unit from multiple angles. Include close-range photographs of the height adjustment mechanism (handle and ratchet system), landing gear (including swing arms, wheels, and mounting brackets), and all structural welds. Also take close-range photographs of every label applied to the ramp and landing gear. Operate the height adjustment by turning the handle clockwise and counterclockwise to raise and lower the ramp. Describe the effort necessary to turn the handle, any resistance felt, and sounds or unusual movements during operation. Move the unit and describe how the ramp moves, including wheel rotation and stability. Collect the photographs and writings in a file. This file is a record of the ramp in satisfactory condition. Compare the results of each inspection to this record to determine whether the unit is still in satisfactory condition. Purely cosmetic changes, like damaged paint, are not changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs.

INSPECTING AND MAINTAINING THE RAMP: STANDARD YR MODELS

Compare the results of all inspections to the Record to determine whether the ramp is in satisfactory condition. DO NOT use the ramp unless it is in satisfactory condition. If you are uncertain whether the ramp is in satisfactory condition, contact the Technical Service & Parts Department. Designated inspection personnel should inspect the ramp before it is used for the first time and thereafter as directed. Refer to the appropriate *EXPLODED VIEW* (p. 13, 14, 15, & 16), as necessary, to identify features named in these instructions.

Before inspecting or performing maintenance on the ramp:

1. Lower the ramp by turning the height adjustment handle counterclockwise until the ramp is fully lowered.
2. Chock both wheels on both sides.
3. Install blocks under the upper end (lip) of the ramp to provide an additional means for supporting the ramp. A boom truck or fork truck could be used in place of blocks.
4. Post warning signs indicating that the ramp is out of service.
5. Wear appropriate personal protective equipment (hard hat, gloves, eye protection, etc.).

INSPECTIONS

Before EVERY use examine the following:

1. Ramp walking/driving surfaces. Check the surfaces for broken welds, warped metal and other signs of metal fatigue (cracks, stretches, etc.), and severe rusting.
2. Landing gear. Examine the tires for underinflation or damage (e.g., dry rot, cuts, bulges).
3. Height adjustment mechanism. Confirm smooth operation by turning the handle; check for binding or excessive resistance.

At least ONCE PER MONTH closely inspect the following ramp components:

1. Rubber bumpers: Check for dry rot, severe wear, and other damage. Ensure bumpers are solidly fastened.
2. Chains and hooks: Examine chain links for damage. Ensure hooks operate properly and are not bent.
3. Tow bar assembly: Inspect the key, wing nut, spring, fork pocket, and safety chain for cracks, wear, and rusting. Confirm spring compresses normally.
4. Landing gear: DO NOT crawl under the ramp. Ensure tires are inflated to sidewall pressures. Examine welds; frame should be square and rigid. Pay attention to cylinder mounting brackets, swing arm brackets, pins, and axle. Inspect clevis pins for wear, warps, cracks, or corrosion. Ensure cotter pins are in place. Lubricate wheel hubs with waterproof grease; clevis pins with SAE30 oil. Turn the height adjustment handle to confirm normal extension and retraction of both landing gear subassemblies.
5. Ramp: Inspect frame and surfaces for cracks, wear, rusting, corrosion, or compromised welds.
6. Height adjustment mechanism: Inspect the ratchet system, handle, and linkages for wear, corrosion, or deformation. Ensure smooth rotation without slippage.

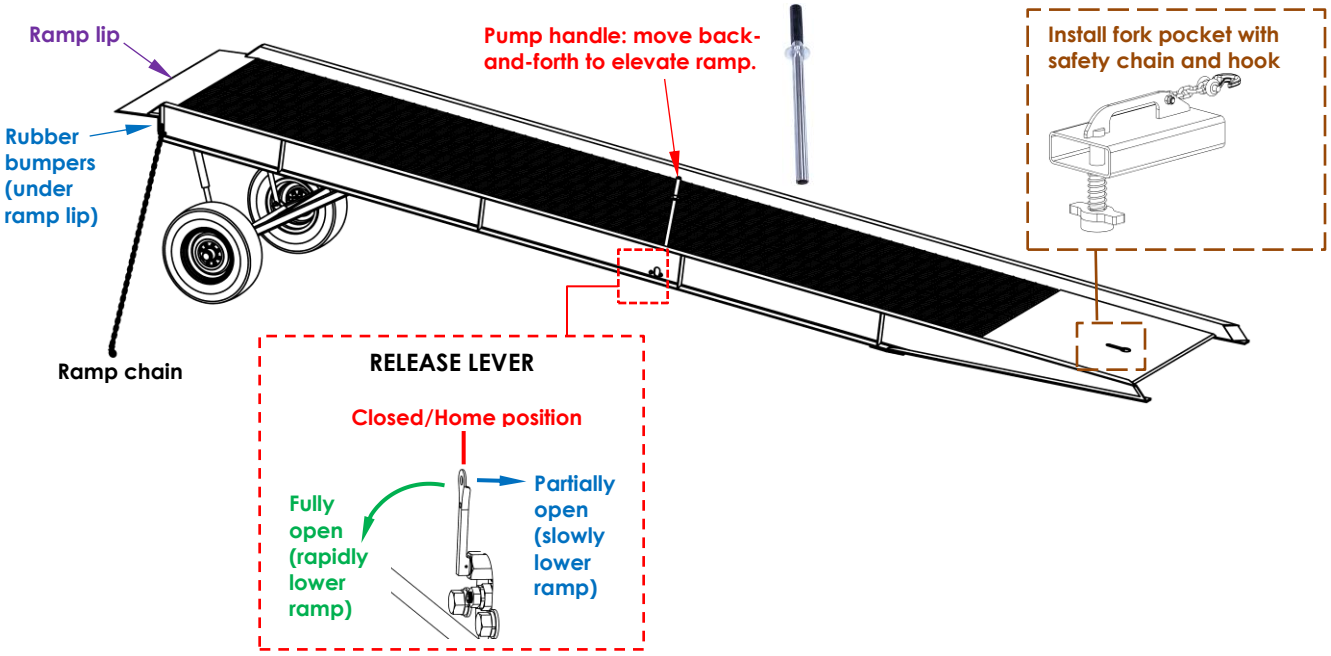
Yearly inspections: In addition to monthly inspections, lubricate all moving parts of the height adjustment mechanism with SAE30 oil or equivalent.

MAINTENANCE

If changes from satisfactory condition are noticed, repair or replace parts before returning to service. Perform maintenance to ensure the ramp remains in satisfactory condition. Follow ANSI MH30.2 guidelines for maintenance intervals and records.

USING THE RAMP: YR-SERIES RAMPS EQUIPPED WITH YR-HL OPTION FOR MANUAL-HYDRAULIC HEIGHT ADJUSTMENTS

YR-series ramps have landing gear that can be raised or lowered to adjust the height of the ramp. A manual hydraulic system is used to raise and lower the landing gear. To adjust the height of your ramp, apply the following steps. Refer to the following diagram as well as the YR-HL *EXPLODED VIEW* (p. 17) plus the applicable ramp frame weldment (item no. 1 in the Exploded Views on p. 13-16) to identify ramp features referred to in these instructions.



USING THE YR-HL FEATURE TO ADJUST RAMP HEIGHT

1) Make sure the release valve is closed. It is closed when the release lever is in the "Home" position (vertical).

2) Measure the height of the vehicle/trailer bed. Move the pump handle back-and-forth until the lip of the ramp is at least 2in. higher than the bed. Disembark the ramp.

3) Stand clear of the ramp and be sure that the driver of the vehicle can see you. Direct the driver to bring the back of the vehicle/trailer into contact with the rubber bumpers. The ramp lip must overlap the vehicle bed by ***at least*** 4 inches (10.2cm).

4) Make sure that the vehicle is in park, that the engine is turned off, and that the parking brake is set. Chock the wheels of both the vehicle and the trailer. If you have questions about requirements for chocking wheels, contact your state occupational safety and health (OSH) agency. An interactive map of these United States with links to state OSH offices is provided online at https://www.osha.gov/dcsp/osp/.

5) Attach the ramp chains to the vehicle *without slack*. Chock ramp wheels.

6) **Slightly open** the release valve by pushing the top of the release lever towards the ramp. The ramp will lower slowly. When the ramp rests on the vehicle bed, **fully open** the valve by pivoting the lever away from the ramp. By fully opening the valve, the ramp lip is entirely supported by the trailer/vehicle bed. This allows the ramp to move with the truck/trailer bed during loading or unloading operations.

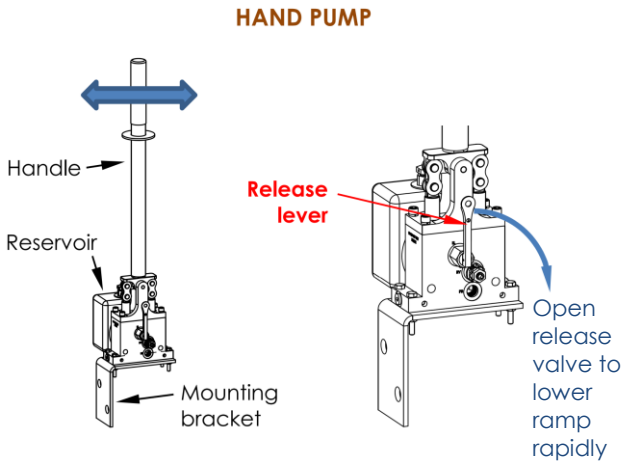
7) When loading/unloading operations are finished, close the release valve by moving the lever back to home position (vertical). Move the pump handle back-and forth to lift the ramp off of the vehicle bed. Keep moving the handle until the lip is at least 2 inches above the trailer/truck bed.

8) Disconnect the safety chains. The ramp wheels should remain chocked whenever the ramp is parked.

HYDRAULIC HAND PUMP: SEQUENCE OF OPERATION

A hand-operated hydraulic pump is used to control ramp height adjustments. With the release lever in the HOME (closed) position, moving the pump handle back-and-forth causes the hydraulic cylinders to extend. Both cylinders attach to the landing gear and to the underside of the ramp. As the cylinders extend, they push the landing gear and the ramp away from each other, raising the ramp.

Slowly lower the ramp by pushing the top of the release lever towards the ramp. Stop lowering the ramp by letting go of the lever. The lever automatically returns to the home position (valve closed). The ramp can also be rapidly lowered by pulling the top of the release lever away from the ramp. However, this should *only* be done if the bridge plate of the ramp already rests on the bed of a truck or trailer. Close the valve by returning the release lever to the home position. See *RELEASE LEVER* diagram on p. 9. The lever must be in the closed position to raise the ramp.



PURGING AIR FROM THE HYDRAULIC SYSTEM

If the ramp will not lower or lowers abnormally slowly when the release valve is opened, a feature called a velocity fuse might be closed. A velocity fuse is a safety-enhancing mechanism that prevents the ramp from collapsing if hydraulic pressure is lost. A velocity fuse is coupled to each cylinder. Air trapped in the hydraulic circuit might cause 1 or both of the fuses to close. When a fuse closes, oil cannot move from the cylinder to the reservoir which prevents the ramp from lowering. To resolve this issue, air must be removed from the circuit. If you experience this issue, first try to open the fuses by pumping the handle. Make sure that the *release lever* is in its home position (see diagrams above and on p. 9) while pumping the handle. Then, try to lower the ramp by pressing the release lever forward (towards the ramp). If this does not solve the issue, then air must be bled from the circuit. Two people should work together to bleed air from the circuit:

a. Lift the ramp with external means to remove the load from the cylinders. For instance, use at least 2 jacks rated to lift the full weight of your ramp. Ramp weights by model appear in your Specifications document. See *Specifications* on page 3. Brace the elevated end of the ramp with blocks and chock both sides of both wheels.

b. Locate the bleeder screw on the base of each cylinder (the end of the cylinder attached to the underside of the ramp). It looks like a grease zerk.

c. Open the bleeder valve of one cylinder by turning the bleeder screw about $^{1}/_{2}$ turn with a $^{1}/_{4}$in. or $^{5}/_{16}$in. wrench. Hold a rag over the bleeder valve of the cylinder. The other person should move the pump handle back and forth just once. Oil and air will sputter from the valve. Continue this process—pumping the handle once and watching air bubble out of the bleeder—until no more air escapes. If air has been removed, just a clear stream of oil will flow from the bleeder. Tighten the screw when you no longer hear and/or see air escaping from the bleeder.

d. Perform the bleeding procedure on the other cylinder.

e. When air has been removed from both cylinders, make sure that both bleeder screws are retightened.

RECORD OF SATISFACTORY CONDITION (THE "RECORD"): MODELS EQUIPPED WITH OPTION YR-HL

Record (photograph, video, and/or writing) the condition of the ramp before putting it into service. Thoroughly photograph the unit from multiple angles. Include close-range shots of the YR-HL hydraulic system (hand pump, release lever, hydraulic cylinders, hoses, reservoir with oil level marked, and pump body/manifold), landing gear (including swing arms, wheels, and mounting brackets), and all structural welds. Clearly capture shots of every label applied to the ramp and landing gear. Raise and lower the ramp using the hand pump: close the release valve, pump the handle to extend cylinders; describe pumping effort, smoothness, and sounds. Open the valve to lower the ramp. Note

the descent rate the reactions of the cylinders. Move the unit using the fork pocket. Describe how the ramp moves, including wheel noise, ramp stability, etc. Collect all videos, photographs, and writings in a file. This file is a record of the ramp in satisfactory condition. Compare the results of each inspection to this Record to determine whether the unit is still in satisfactory condition. Purely cosmetic changes, like damaged paint, are not changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs.

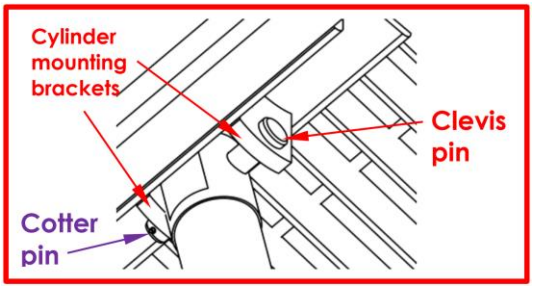
INSPECTING AND MAINTAINING THE RAMP: MODELS WITH OPTION YR-HL

Compare the results of all inspections to the *RECORD* to determine whether the ramp is in satisfactory condition. DO NOT use the ramp unless it is in satisfactory condition. If you are uncertain whether the ramp is in satisfactory condition, contact the *TECHNICAL SERVICE & PARTS DEPARTMENT*. Designated inspection personnel should inspect the ramp before it is used for the first time and thereafter as directed. Refer to the appropriate Exploded View on p. 13-17, as necessary, to identify features named in these directions.

Although the hydraulic system is factory filled with oil to the proper level, it is possible that leaks develop during shipping. Before using the ramp for the first time, inspect the hoses, fittings, cylinders, tank, pump, and manifold for oil leaks. Tighten fittings, if necessary.

Before inspecting or performing maintenance on the ramp:

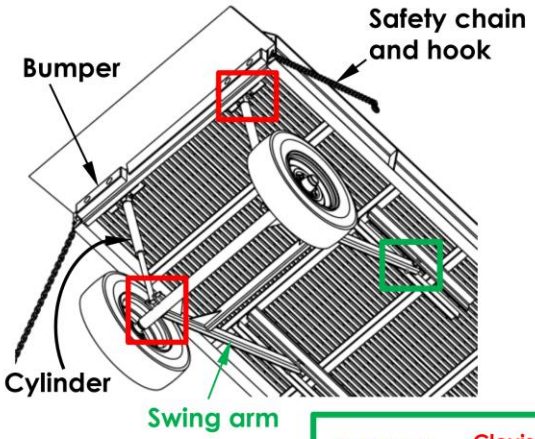
1. Open the release valve and allow the ramp to completely lower.
2. Chock both wheels on both sides.
3. Install blocks under the upper end (lip) of the ramp to provide an additional means for supporting the ramp. A boom truck or fork truck could be used in place of blocks.
4. Post warning signs indicating that the ramp is out of service.
5. Wear appropriate personal protective equipment (hard hat, gloves, eye protection, etc.).



INSPECTIONS

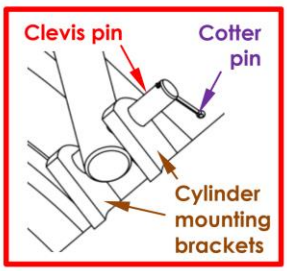
Before EVERY use examine the following:

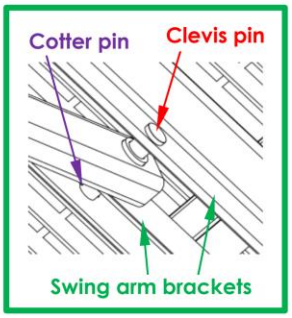
1. Ramp walking/driving surfaces. Check the surfaces for broken welds, warped metal and other signs of metal fatigue (cracks, stretches, etc.), and severe rusting.
2. Landing gear. Examine the tires for under-inflation or damage (e.g., dry rot, cuts, bulges).
3. Hydraulic system. Inspect for visible oil leaks; confirm cylinders extend symmetrically when pumped.



At least ONCE PER MONTH closely inspect the following ramp components:

1. Rubber **bumpers**: Check for dry rot, severe wear, and other damage. Ensure bumpers are solidly fastened.
2. **Safety chains & hooks**: Examine chain links and hooks for damage.
3. Fork pocket tow bar assembly: Inspect the key, wing nut, spring, fork pocket, safety chain and hook for cracks, wear, and rusting, impact damage, or other forms of damage. Confirm spring compresses normally.





4. Landing gear: DO NOT crawl under the ramp. Ensure tires are inflated to sidewall pressures. Examine welds; frame should be square and rigid. Pay attention to **cylinder mounting brackets**, **swing arm brackets**, pins, and axle. Inspect **clevis pins** for wear, warps, cracks, or corrosion. Ensure **cotter pins** are in place. Lubricate wheel hubs with waterproof grease; clevis pins with SAE30 oil.

5. Hydraulic system: Inspect pump, tank, hoses, **cylinders**, and fittings for leaks. Check hoses for bulges or damage. Confirm cylinders extend symmetrically. Pump the handle with release valve closed to raise ramp; note effort and sounds. Open valve to lower; check descent rate.
6. Ramp: Inspect frame and surfaces for cracks, wear, rusting, corrosion, or compromised welds.

Yearly inspections: In addition to monthly inspections, inspect hydraulic fluid. When fully lowered, oil should be ¼ inch below the fill port. Add anti-wear hydraulic oil (viscosity ~150 SUS at 100°F, e.g., AW-32 or ISO 32) if low. Change if darkened, gritty, or milky (water present). Flush with synthetic fluid if using synthetic.

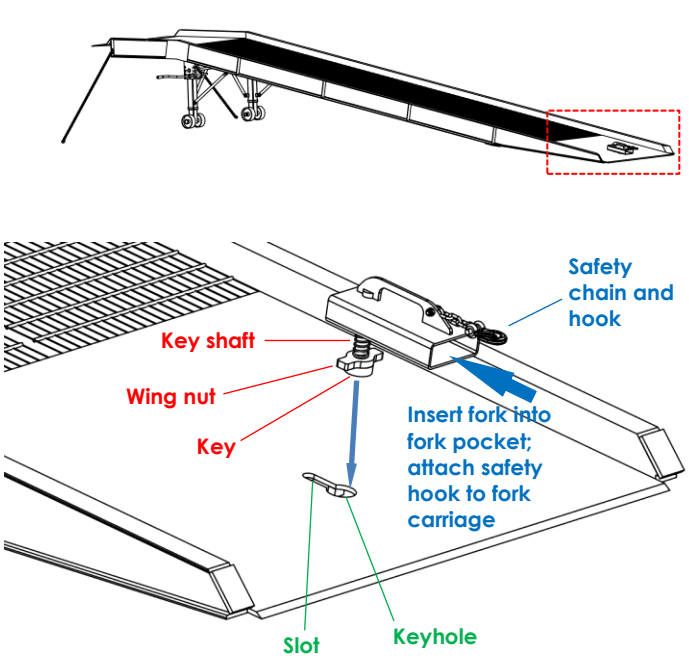
MAINTENANCE

If changes from satisfactory condition are noticed, repair or replace parts before returning to service. Perform maintenance to ensure the ramp remains in satisfactory condition. Follow ANSI MH30.2 guidelines for maintenance intervals and records. For issues like ramp not lowering (velocity fuse activated), bleed air from system by applying the *PURGING AIR FROM THE HYDRAULIC SYSTEM* instructions. For spongy operation, check fluid level or purge air.

MOVING THE RAMP

The ramp is equipped with a detachable fork pocket (18-001-309). A "key" on the underside of the fork pocket fits into a keyhole in the surface of the bottom end of the ramp. Align the key with the circular portion of the keyhole. Press the key only (not the wing nut) into the keyhole. Then, slide the key and key shaft forward into the slot. The wing nut wound onto the key is spring-biased. Spring tension creates a clamp that pinches the ramp plate between the key and the nut. Watch the demonstration video at https://youtu.be/Wdcqy6e2bzY.

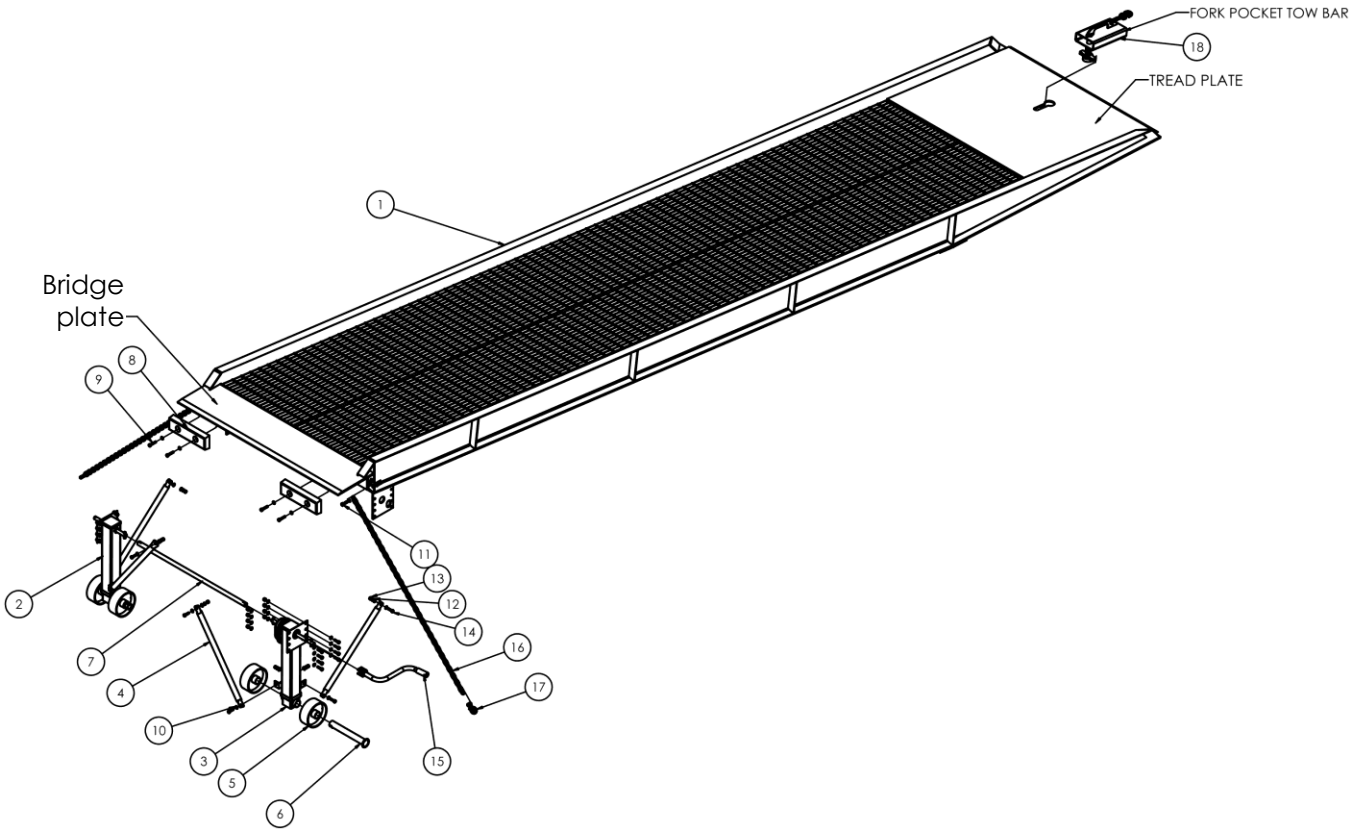
Move the ramp with a lift truck. Insert a fork into the fork pocket. Attach the safety hook to the carriage of the lift truck without slack. Raise the fork carriage sufficiently to lift the end of the ramp off of the ground. The ramp can now be *pushed* with the lift truck. ***DO NOT pull the ramp!*** Chock the wheels whenever the ramp is parked.



NOTICE
DO NOT ship or transport the ramp utilizing its undercarriage. ONLY ship or transport the ramp using flatbed shipping.

EXPLODED VIEW AND BILL OF MATERIALS: 16,000LB. CAPACITY MODELS
YR-16-7230; YR-16-7236; YR-16-8430; YR-16-8436

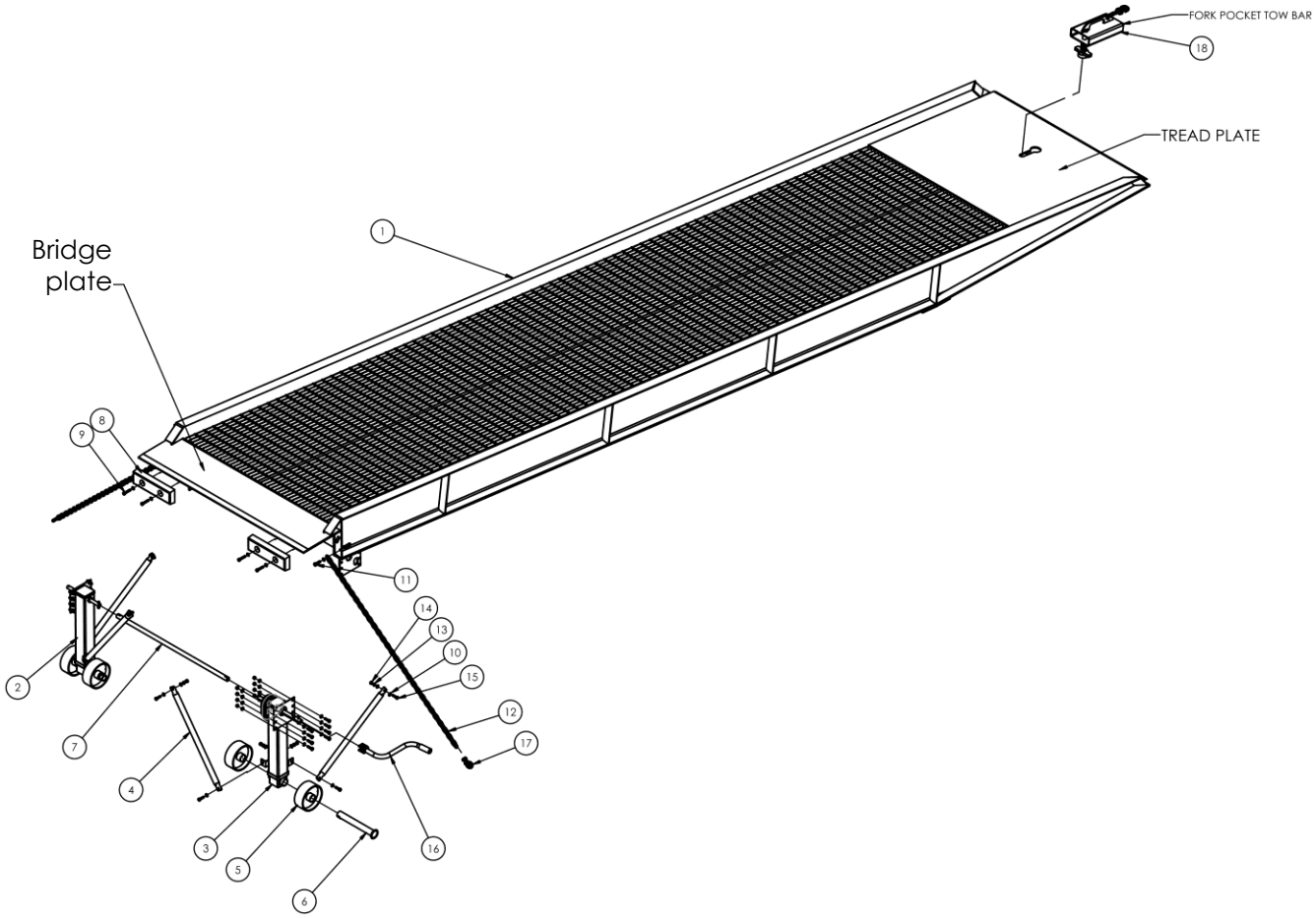
18-006-198



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	18-514-124 18-514-126 18-514-125 18-516-127	WELDMENT, FRAME, RAMP YR-16-7230 YR-16-7236 YR-16-8430 YR-16-8436	1 1 1 1	**10**	33011	FLAT WASHER, USS, PLAIN FINISH, Ø1/2"	56
2	18-514-162	WELDMENT, LANDING GEAR, RIGHT SIDE	1	**11**	12211	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 2"	2
3	18-514-163	WELDMENT, LANDING GEAR, LEFT SIDE	1	**12**	33625	LOCK WASHER, MEDIUM SPLIT, PLAIN FINISH, 1/2"	26
4	18-017-020	BAR, STIFFENER, LANDING GEAR BAR	4	**13**	36109	HEX NUT, GRADE A, PLAIN FINISH, 1/2"-13	26
5	16-132-328	WHEEL, STEEL WHEEL	4	**14**	12210	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 1 3/4"	24
6	18-112-010	PIN, TRAILER STABILIZING, YR LANDING GEAR	2	**15**	18-025-005	JACK, CRANK HANDLE	1
7	18-026-005 18-026-006	SHAFT,CONNECTING, LANDING GEAR 72" WIDE: YR-16-7230 & YR-16-7236 84" WIDE: YR-16-8430 & YR-16-8436	1	**16**	99-145-038	3/8" x 72" CHAIN	2
8	29-001-103	FINAL ASSEMBLY W/O SHIPPING	2	**17**	99-145-059	GENERIC, 5/16" CHAIN HOOK	2
9	13213	HEX BOLT,GRADE 5, ZINC FINISH, 1/2"-13 X 2 1/2"	4	**18**	18-001-309	FINAL ASSEMBLY W/O SHIPPING	1

EXPLODED VIEW AND BILL OF MATERIALS: 20,000LB. CAPACITY MODELS YR-20-7330, YR-20-7336, YR-20-8530, AND YR-20-8536

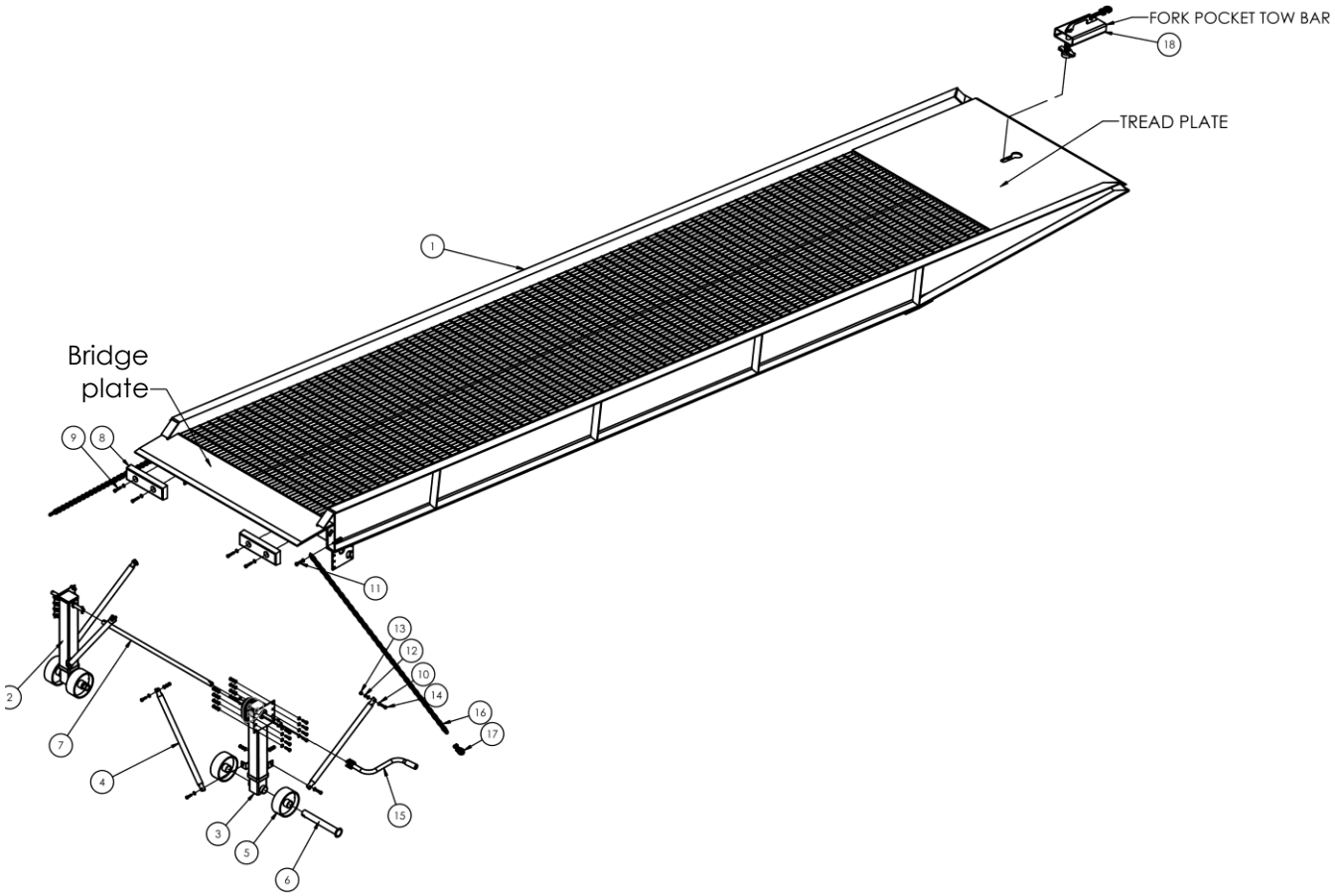
18-006-202



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	 18-514-128 18-514-130 18-514-129 18-514-131	WELDMENT, FRAME, RAMP YR-20-7330 YR-20-7336 YR-20-8530 YR-20-8536	 1 1 1 1	**10**	33011	FLAT WASHER, USS, PLAIN FINISH, Ø1/2"	56
2	18-514-162	WELDMENT, LANDING GEAR, RIGHT SIDE	1	**11**	12211	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 2"	2
3	18-514-163	WELDMENT, LANDING GEAR, LEFT SIDE	1	**12**	99-145-038	3/8" x 72" CHAIN	2
4	18-017-020	BAR, STIFFENER, LANDING GEAR BAR	4	**13**	33625	LOCK WASHER, MEDIUM SPLIT, PLAIN FINISH, 1/2"	26
5	16-132-328	WHEEL, STEEL WHEEL	4	**14**	36109	HEX NUT, GRADE A, PLAIN FINISH, 1/2"-13	26
6	18-112-010	PIN, TRAILER STABILIZING, YR LANDING GEAR	2	**15**	12210	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 1 3/4"	24
7	 18-026-005 18-026-006	SHAFT,CONNECTING,YR LANDING GEAR 73" WIDE: YR-20-7330 & YR-20-7336 85" WIDE: YR-20-8530 & YR-20-8536	 1 1	**16**	18-025-005	JACK, CRANK HANDLE	1
8	29-001-103	FINAL ASSEMBLY W/O SHIPPING	2	**17**	99-145-059	GENERIC, 5/16" CHAIN HOOK	2
9	13213	HEX BOLT,GRADE 5, ZINC FINISH, 1/2"-13 X 2 1/2"	4	**18**	18-001-309	FINAL ASSEMBLY W/O SHIPPING	1

EXPLODED VIEW AND BILL OF MATERIALS: 25,000LB. CAPACITY MODELS YR-25-7330, YR-25-7336, YR-25-8530, AND YR-25-8536

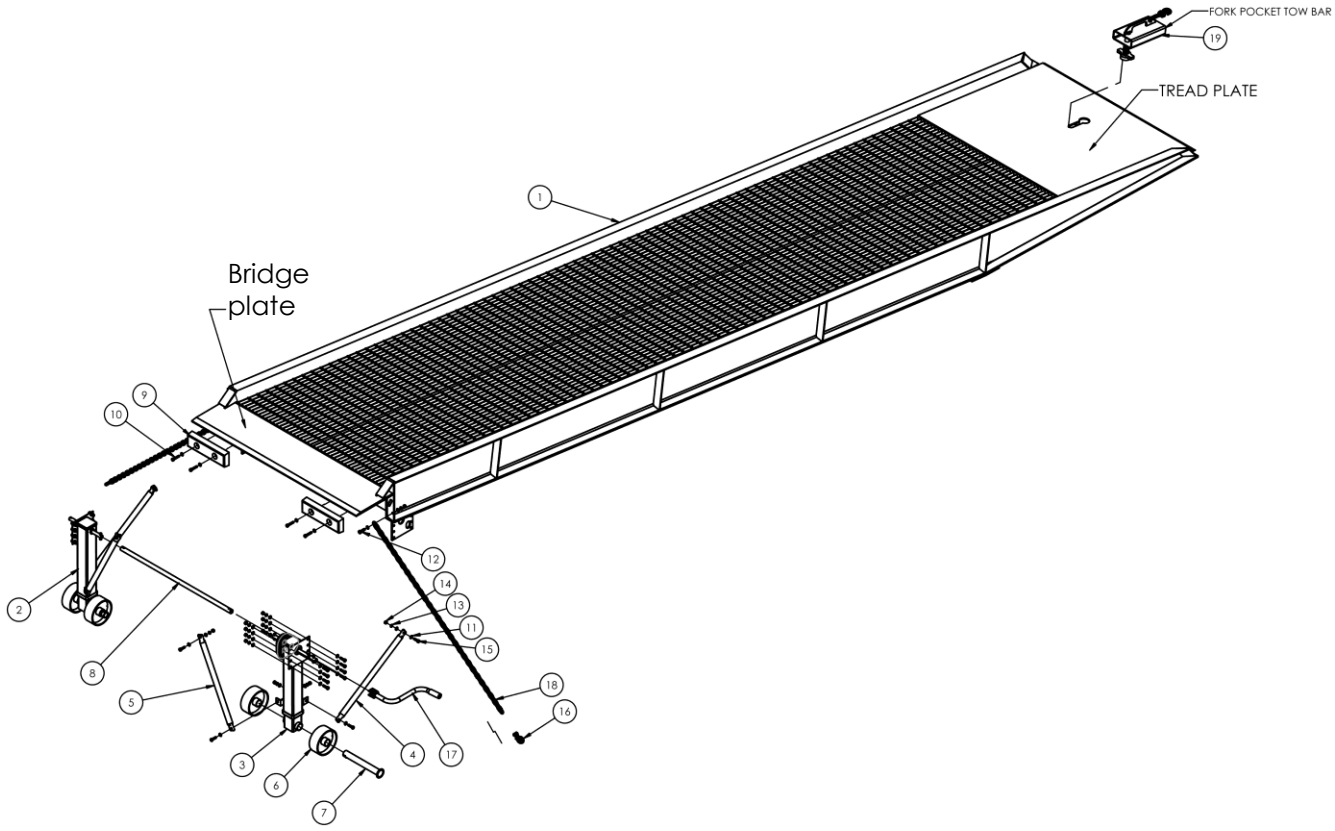
18-006-206



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	18-514-132 18-514-134 18-514-133 18-514-135	WELDMENT, FRAME, RAMP YR-25-7330 YR-25-7336 YR-25-8530 YR-25-8536	1 1 1 1	**10**	33011	FLAT WASHER, USS, PLAIN FINISH, Ø1/2"	56
2	18-514-162	WELDMENT, LANDING GEAR, RIGHT SIDE	1	**11**	12211	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 2"	2
3	18-514-163	WELDMENT, LANDING GEAR, LEFT SIDE	1	**12**	33625	LOCK WASHER, MEDIUM SPLIT, PLAIN FINISH, 1/2"	26
4	18-017-020	BAR, STIFFENER, LANDING GEAR BAR	4	**13**	36109	HEX NUT, GRADE A, PLAIN FINISH, 1/2"-13	26
5	16-132-328	WHEEL, STEEL WHEEL	4	**14**	12210	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 1 3/4"	24
6	18-112-010	PIN, TRAILER STABILIZING, YR LANDING GEAR	2	**15**	18-025-005	JACK, CRANK HANDLE	1
7	18-026-005 18-026-006	SHAFT,CONNECTING,YR LANDING GEAR 73" WIDE: YR-25-7330 & YR-25-7336 85" WIDE: YR-25-8530 & YR-25-8536	1 1	**16**	99-145-038	3/8" x 72" CHAIN	2
8	29-001-103	FINAL ASSEMBLY W/O SHIPPING	2	**17**	99-145-059	GENERIC, 5/16" CHAIN HOOK	2
9	13213	HEX BOLT,GRADE 5, ZINC FINISH, 1/2"-13 X 2 1/2"	4	**18**	18-001-309	FINAL ASSEMBLY W/O SHIPPING	1

EXPLODED VIEW AND BILL OF MATERIALS: 30,000LB. CAPACITY MODELS YR-30-7330, YR-30-7336, YR-30-8530, AND YR-30-8536

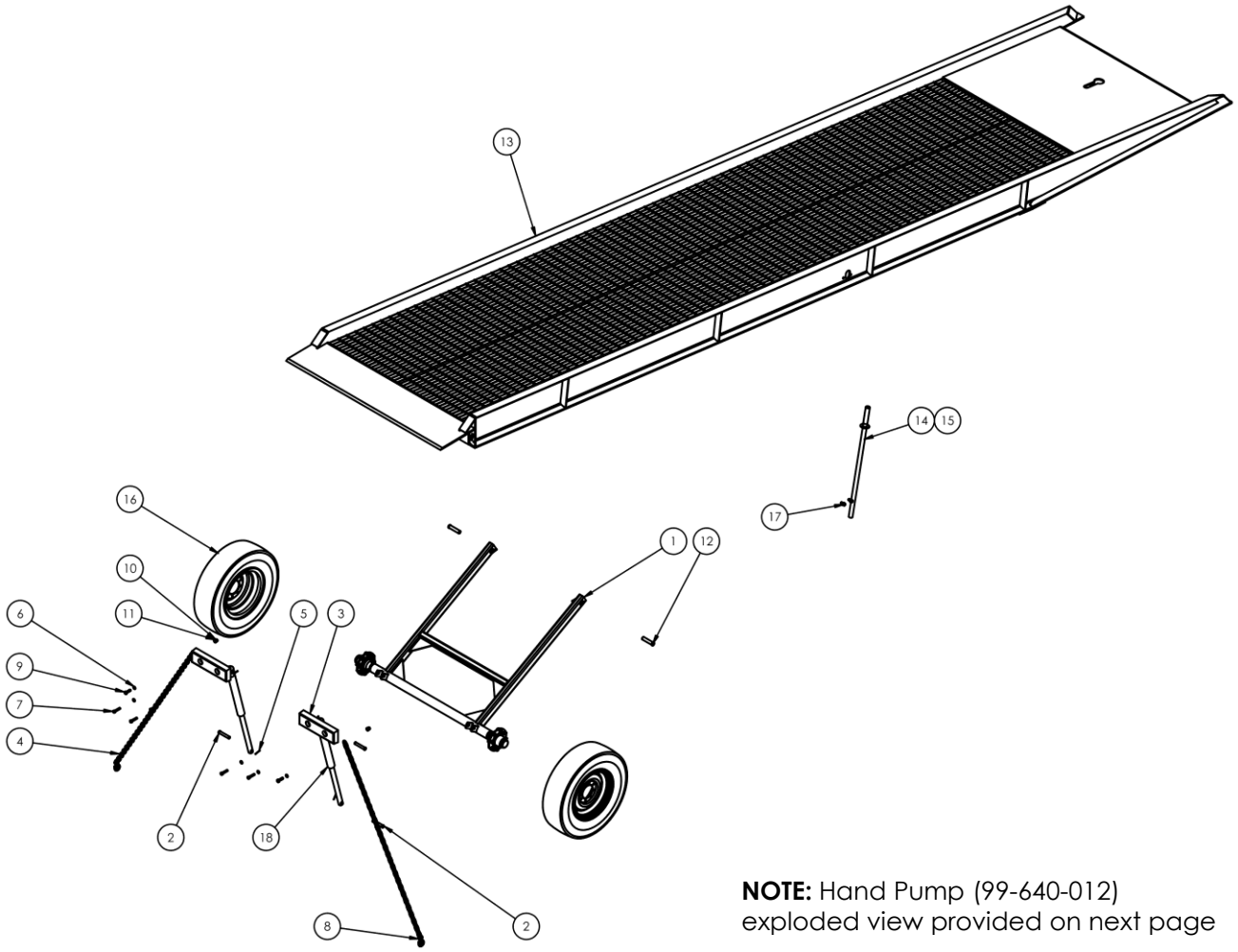
18-006-210



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	18-514-136 18-514-138 18-514-137 18-514-139	WELDMENT, FRAME, RAMP YR-30-7330 YR-30-7336 YR-30-8530 YR-30-8536	1 1 1 1	10	13213	HEX BOLT,GRADE 5, ZINC FINISH, 1/2"-13 X 2 1/2"	4
2	18-514-162	WELDMENT, LANDING GEAR, RIGHT SIDE	1	11	33011	FLAT WASHER, USS, PLAIN FINISH, Ø1/2"	56
3	18-514-163	WELDMENT, LANDING GEAR, LEFT SIDE	1	12	12211	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 2"	2
4	18-017-020	BAR, STIFFENER, LANDING GEAR BAR	2	13	33625	LOCK WASHER, MEDIUM SPLIT, PLAIN FINISH, 1/2"	26
5	18-017-067 18-017-025	BAR, STIFFENER, LANDING GEAR 30K: YR-30-7330 & YR-30-7336 30K SHORT: YR-30-8530 & YR-30-8536	 2 2	14	36109	HEX NUT, GRADE A, PLAIN FINISH, 1/2"-13	26
6	16-132-328	WHEEL, STEEL WHEEL	4	15	12210	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 1 3/4"	24
7	18-112-010	PIN, TRAILER STABILIZING, YR LANDING GEAR	2	16	99-145-059	GENERIC, 5/16" CHAIN HOOK	2
8	18-026-005 18-026-006	SHAFT,CONNECTING,YR LANDING GEAR 73" WIDE: YR-25-7330 & YR-25-7336 85" WIDE: YR-25-8530 & YR-25-8536	 1 1	17	18-025-005	JACK, CRANK HANDLE	1
9	29-001-103	FINAL ASSEMBLY W/O SHIPPING	2	18	99-145-038	3/8" x 72" CHAIN	2
				19	18-001-309	FINAL ASSEMBLY W/O SHIPPING	1

EXPLODED VIEW AND BILL OF MATERIALS: MODELS EQUIPPED WITH YR-HL OPTION

18-006-277-001

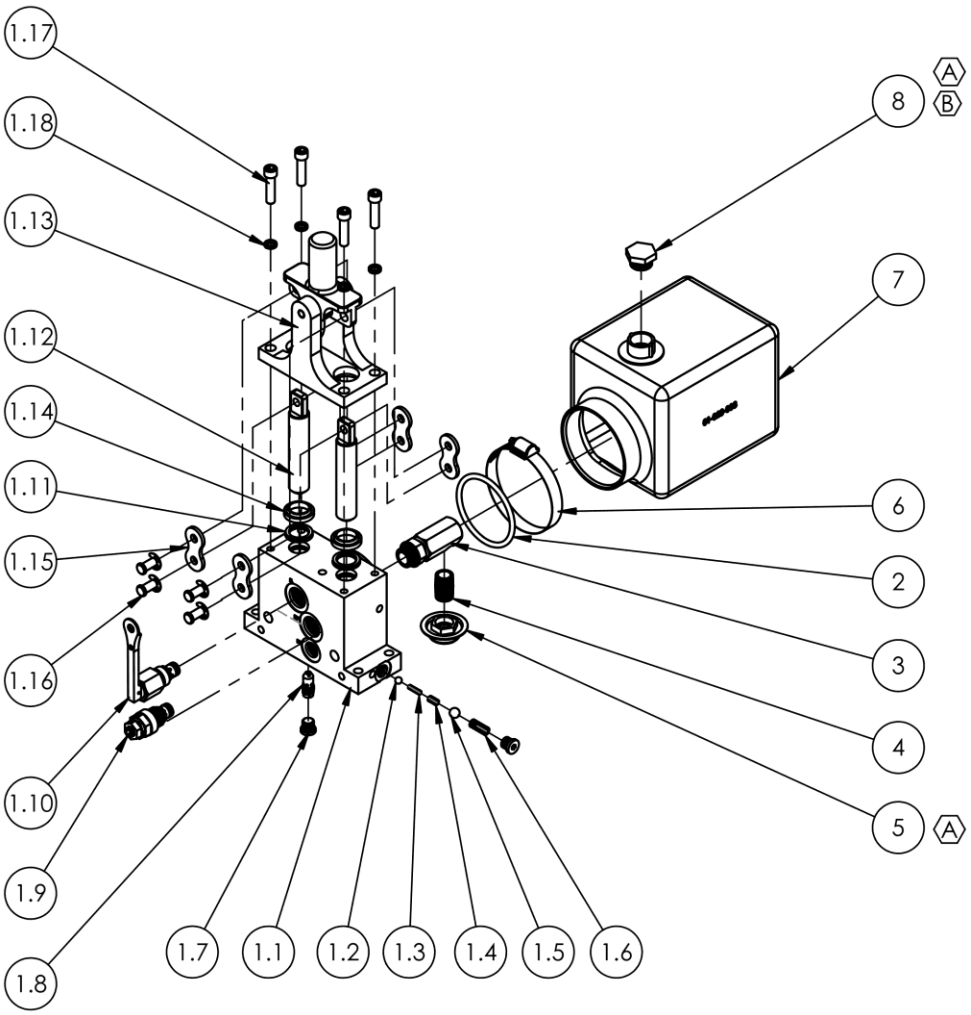


NOTE: Hand Pump (99-640-012) exploded view provided on next page

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	18-514-188	WELDMENT, YR LANDING GEAR SWING ARM, LARGE PNEUMATIC TIRE	1	**10**	36109	HEX NUT, GRADE A, PLAIN FINISH, 1/2"-13	2
2	28-112-031	Ø3/4 x 4 1/2 LG CLEVIS PIN	4	**11**	33625	LOCK WASHER, MEDIUM SPLIT, PLAIN FINISH, 1/2"	4
3	29-001-103	FINAL ASSEMBLY W/O SHIPPING	2	**12**	33-112-023	PIN, CLEVIS	2
4	99-145-038	3/8" x 72" CHAIN	2	**13**	18-514-190	WELDMENT, FRAME	1
5	65080	EXTENDED PRONG COTTER PIN, ZINC FINISH, 1/8" x 2"	6	**14**	07-525-004	ASSEMBLY, HANDLE	1
6	33011	FLAT WASHER, USS, PLAIN FINISH, Ø1/2"	10	**15**	07-025-005	HANDLE, BLACK RUBBER, 6"	1
7	13213	HEX BOLT,GRADE 5, ZINC FINISH, 1/2"-13 X 2 1/2"	4	**16**	16-132-289	WHEEL, LARGE PNEUMATIC TIRE AND RIM	2
8	99-145-059	GENERIC, 5/16" CHAIN HOOK	2	**17**	11207	HHCS #2 Z Plated, GRADE A, Ø1/2 - 13 x 1 1/4 LG	2
9	12211	HEX BOLT, GRADE 5, PLAIN FINISH, 1/2"-13 X 2"	2	**18**	99-021-936-001	CYLINDER, HYDRAULIC	2

YR-HL OPTION: HAND PUMP EXPLODED VIEW & BILL OF MATERIALS

Part no. 99-640-012 rev. B



Item	Part no.	Description	Qty.	Item	Part no.	Description	Qty.
1	99-140-005	SUB-ASSEMBLY, MANUAL PUMP, HAND	1	**1.13**	99-640-008	SUB-ASSEMBLY, PUMP, ROCKER	1
1.1	99-039-005	BODY, MANUAL PUMP, HAND	1	**1.14**	99-144-003	WIPER, SOLID PROFILE, PISTON	2
1.2	99-110-007	BEARING, BALL, Ø1/4"	2	**1.15**	99-042-001	CHAIN, SLIP FIT, SIDE PLATE, #80	4
1.3	99-146-004	SPRING, COMPRESSION, INLET CHECK	2	**1.16**	11484-01103	PIN, SS GROOVED CLEVIS w/ SNAP RING	4
1.4	99-146-006	SPRING, COMPRESSION, RETAINER	2	**1.17**	93257	SHCS 5/16-18 x 1 1/4	4
1.5	99-110-006	BEARING, BALL, Ø3/8"	2	**1.18**	0129169	LOCK WASHER, HI COLLAR, ZINC PLATED	4
1.6	99-146-005	SPRING, COMPRESSION, OUTLET CHECK	2	**2**	99-144-007	O-RING, MANIFOLD, 3" OD	1
1.7	99-116-005	FITTING, HYDRAULIC, 04MORB HOLLOW HEX PLUG	3	**3**	99-116-001	SUCTION FITTING, MINI MANIFOLD	1
1.8	99-153-038	FLOW CONTROL, PRES. COMP., 1.0 GAL.	1	**4**	99-031-033	ACCESSORIES, NIPPLE, CLOSE PIPE	1
1.9	99-153-006	VALVE, PRESSURE RELIEF, 210 BAR	1	**5**	99-031-029	ACCESSORIES, HYDRAULIC	1
1.10	99-153-080	VALVE, CARTRIDGE w/TOGGLE ARM	1	**6**	99-145-061	Clamp, Worm Gear Hose, 2 13/16 - 3 3/4	1
1.11	99-144-015	SEAL, U-CUP	2	**7**	01-023-009	RESERVOIR, OIL	1
1.12	99-041-004	PLUNGER/PISTON, PUMP	2	**8**	99-616-001	ASSEMBLY, BREATHER	1

LABELING DIAGRAM: YR-SERIES YARD RAMPS

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 applicable *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 *Technical Service & Replacement Parts Department* online at https://www.vestil.com/page-parts-request.php. You may also call (260) 665-7586 and ask the operator to connect you to the *Replacement Parts Department*.

YR-SERIES YARD RAMPS

A: Label 427 (both sides)

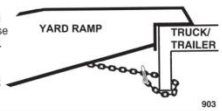
⚠ WARNING	⚠ ADVERTENCIA
CHAIN BOTH SIDES OF RAMP TO TRAILER & CHOCK WHEELS 427 REV 1111	ENCADENE AMBOS LADOS DE LA RAMPA AL REMOLQUE O CUÑAS DE LAS RUEDAS

B: Label 903 (both sides)

⚠ WARNING

Material handling is dangerous. Users and/or bystanders might sustain serious personal injuries if the yard ramp is not properly secured to truck/trailer. To reduce the likelihoodof injury:
- DO NOT exceed maximum rated load.
- Unintended separation of the ramp and truck/trailer might cause serious personal injuries. Attach BOTH safety chains to the truck/trailer:

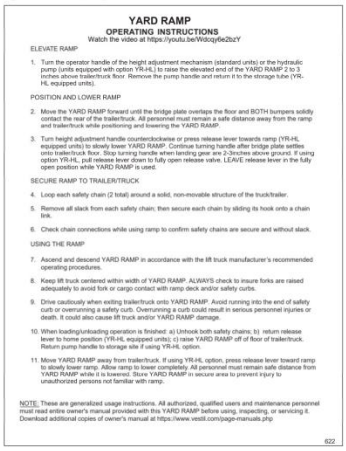
1. Wrap free end of each chain around a sturdy part of truck/trailer, like the underride guard, at least once. DO NOT wrap the chains around a structure that might change positions or that might allow a chain to slide free.
2. Remove slack by pulling both chains taut.
3. Attach each hook to its chain by inserting the end of the hook into a link in the chain. Choose links that will allow both chains to remain taut.



- During every loading/unloading operation, periodically inspect chains to verify that hook connections are sound.

903

C: Label 622



YARD RAMP
OPERATING INSTRUCTIONS
Watch the video at https://youtu.be/Wdcqy6e2bzY

ELEVATE RAMP

1. Turn the operator handle of the height adjustment mechanism (standard units) or the hydraulic pump (units equipped with option YR-HL) to raise the elevated end of the YARD RAMP 2 to 3 inches above trailer/truck floor. Remove the pump handle and return it to the storage tube (YR-HL equipped units).

POSITION AND LOWER RAMP

2. Move the YARD RAMP forward until the bridge plate overlaps the floor and BOTH bumpers solidly contact the rear of the trailer/truck. All personnel must remain a safe distance away from the ramp and trailer/truck while positioning and lowering the YARD RAMP.
3. Turn height adjustment handle counterclockwise or press release lever towards ramp (YR-HL equipped units) to slowly lower YARD RAMP. Continue turning handle after bridge plate settles onto trailer/truck floor. Stop turning handle when landing gear are 2-3inches above ground. If using option YR-HL, pull release lever down to fully open release valve. LEAVE release lever in the fully open position while YARD RAMP is used.

SECURE RAMP TO TRAILER/TRUCK

4. Loop each safety chain (2 total) around a solid, non-movable structure of the truck/trailer.
5. Remove all slack from each safety chain; then secure each chain by sliding its hook onto a chain link.
6. Check chain connections while using ramp to confirm safety chains are secure and without slack.

USING THE RAMP

7. Ascend and descend YARD RAMP in accordance with the lift truck manufacturer's recommended operating procedures.
8. Keep lift truck centered within width of YARD RAMP. ALWAYS check to insure forks are raised adequately to avoid fork or cargo contact with ramp deck and/or safety curbs.
9. Drive cautiously when exiting trailer/truck onto YARD RAMP. Avoid running into the end of safety curb or overrunning a safety curb. Overrunning a curb could result in serious personnel injuries or death. It could also cause lift truck and/or YARD RAMP damage.
10. When loading/unloading operation is finished: a) Unhook both safety chains; b) return release lever to home position (YR-HL equipped units); c) raise YARD RAMP off of floor of trailer/truck. Return pump handle to storage tube if using YR-HL option.
11. Move YARD RAMP away from trailer/truck. If using YR-HL option, press release lever toward ramp to slowly lower ramp. Allow ramp to lower completely. All personnel must remain safe distance from YARD RAMP while it is lowered. Store YARD RAMP in secure area to prevent injury to unauthorized persons not familiar with ramp.

NOTE: These are generalized usage instructions. All authorized, qualified users and maintenance personnel must read entire owner's manual provided with this YARD RAMP before using, inspecting, or servicing it. Download additional copies of owner's manual at https://www.vestil.com/page-manuals.php

622

D: Capacity Label (Model Appropriate; both sides)

YR-16-####: Label 616

CAPACITY / CAPACIDAD / CAPACITÉ
16,000 LBS. / 7257 KGS.

YR-20-####: Label 614

CAPACITY / CAPACIDAD / CAPACITÉ
20,000 LBS. / 9071 KGS.

YR-25-####: Label 612

CAPACITY / CAPACIDAD / CAPACITÉ
25,000 LBS. / 11339 KGS.

YR-30-####: Label 615

CAPACITY / CAPACIDAD / CAPACITÉ
30,000 LBS. / 13607 KGS.

E: Label 1153 covered with 770

MODEL / MODÉLO / MODÈLE _____
WEIGHT / PESO / MASS _____
CAPACITY / CAPACIDAD / CAPACITÉ _____
SERIAL / SERIE / SÉRIE _____
UNITS: 2.2 lb. = 1kg 1" (or 1in.) = 2.54cm 1153

F: Label 621 (both sides)

⚠ WARNING
- BEFORE DRIVING ON RAMP ALWAYS OPEN HYDRAULIC VALVE
- ALL PERSONNEL MUST REMAIN CLEAR OF THE MOBILE DOCK WHILE IT IS BEING RAISED OR LOWERED.
- SECURELY CHAIN RAMP TO TRUCK BEFORE USE.
- PLACE THE PUMP HANDLE IN THE STORAGE TUBE WHEN NOT BEING USED.

PUMP CONTROL RAISE → ← LOWER

621

G: Label 206

ISO 32 / 150 SUS
HYDRAULIC OIL OR NON-SYNTHETIC TRANSMISSION FLUID
ACEITE HIDRAULICO O LIQUIDOS DE TRANSMISION NO SINTETICOS
HUILE OU LIQUIDE HYDRAULIQUE NON-SYNTHÉTIQUE

206 Rev. 1111

AVAILABLE OPTIONS & UPGRADES

YR-series ramps can be customized with the following options to enhance safety, usability, and performance. Contact *TECHNICAL SERVICE* for availability and compatibility with your model:

- **YR-DH**: Factory installed lip holes to lag yard ramps to the top of the dock for secure, stationary installation. Compatible with YR, YRD, and YRDS model ramps.
- **YR-FS**: Factory installed fork pickup slots for easier side-to-side positioning—via forklift—without damaging wheels or landing gear in the process. Usable centers: 24 in.; max service height: 3 in. Compatible with YR, YRD, and YRDS series ramps.
- **YR-GR-30**: Factory installed guard rail, 30 ft. length, for added fall protection along ramp edges. Max service height: 12 in. Compatible with YR series ramps.
- **YR-GR-36**: Factory installed guard rail, 36 ft. length, for added fall protection along ramp edges. Max service height: 12 in. Compatible with YR, YRD, and YRDS series ramps.
- **YR-HDRL**: Factory installed steel welded-on handrail, 42 in. height (yellow), for fall protection. Handrail height: 42 in.; midrail height: 21 in. Compliant with OSHA General Industry rule 1910.29. Compatible with YR, YRD, and YRDS series ramps.
- **YR-HL**: Factory installed pneumatic tires and manual hydraulic hand pump lift for YR-series steel yard ramps, enabling easier height adjustments. Compatible with stationary models. Hydraulic hand pump provides ramp lifting power.
- **YR-HL-DC**: Factory installed pneumatic tires and 12V DC power unit with on-board charger. This option allows users to adjust ramp height via a rechargeable hydraulic-electric power unit. Compatible with YR series ramps.
- **YR-PAD**: Factory installed foot pad for landing gear (brown), providing stable support on soft surfaces. Compatible with YR, YRD, and YRDS series ramps.
- **YR-RAHDRL**: Factory installed removable aluminum handrail, 42 in. height (yellow), for flexible fall protection. Handrail height: 42 in.; midrail height: 21 in. Compliant with OSHA. General Industry rule 1910.29. Compatible with YR, YRD, and YRDS series ramps.
- **YR-RHDRL**: Factory installed removable steel handrail, 42 in. height (yellow), for flexible fall protection. Handrail height: 42 in.; midrail height: 21 in. Compliant with OSHA General Industry rule 1910.29. Compatible with YR, YRD, and YRDS series ramps.

LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the 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 Company	(260) 665-1339	info@vestil.com
2999 North Wayne Street, PO Box 507	Phone	Enter "Warranty service request"
Angola, IN 46703	(260) 665-7586	in subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

How long is the warranty period?

The warranty period for original dynamic components is 1 year. 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 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.