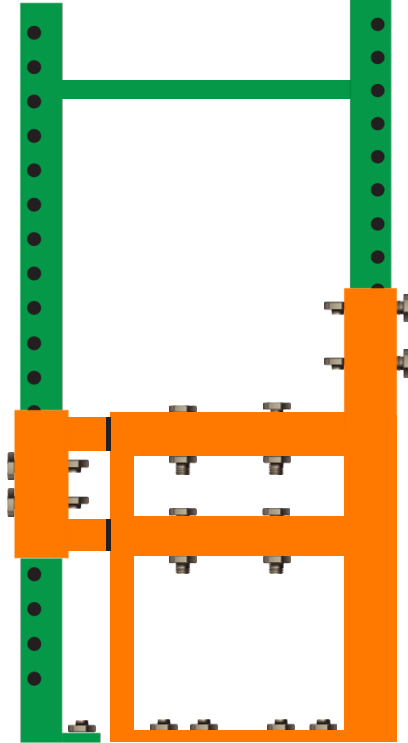





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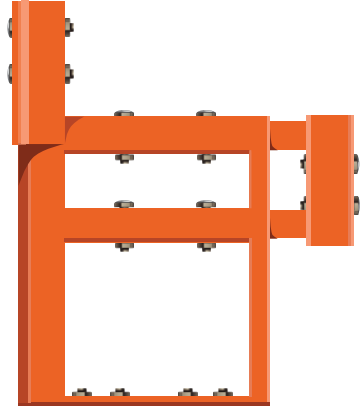
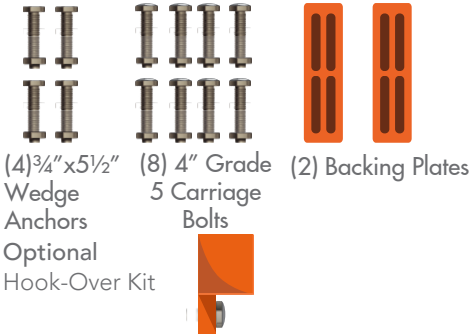
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AVENGER PRO - PALLET RACK REPAIR KIT

Parts Summary:

- (8) 4" Grade 5 Carriage Bolts
- (4) 3/4"x 5 1/2" Wedge Anchors
- (2) Backing Plates



REQUIRED TOOLS

Basic Tools

- Tape Measure
- Sharpie® & Chalk Sticks
- Square
- Level
- 8' A-Frame Ladder
- Extension Cords
- Safety/Ratchet Strap

Cutting Tools

- Portable Bandsaw w/Spare Blades
- Sawzall w/Spare Blades
- Grinder
- Cutting/Grinder

Drilling Tools

- Hammer Drill
- 3/4" Hammer Drill Bit

- 1/2" & 9/16" Drill Bit (High-Speed Steel)
- 4" 1/2" & 9/16" Drill Bit (High-Speed Steel 8")
- Reaming Tool

Fastening Tools

- Impact Gun
- 1/2" Socket
- 3/4" Socket
- 1/2" Wrench
- 3/4" Wrench

Lifting Tools

- Avenger Rescue System Lift
- Base w/Jack Extensions
- Mounting Head
- Safety/Ratchet Strap
- Pins
- Jack Handle

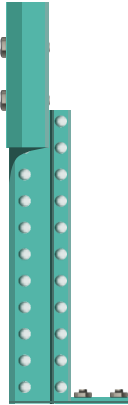
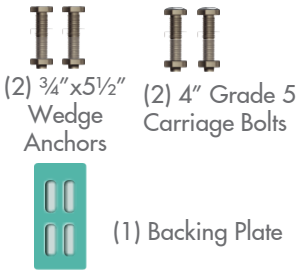


INSTALLATION INSTRUCTIONS

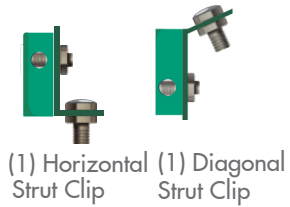
AVENGER GUARD (SEE BACK PAGE FOR INSTALLATION INSTRUCTIONS)

Parts Summary:

- (4) 4" Grade 5 Carriage Bolts
- (2) 3/4"x 5 1/2" Wedge Anchors
- (1) Backing Plate

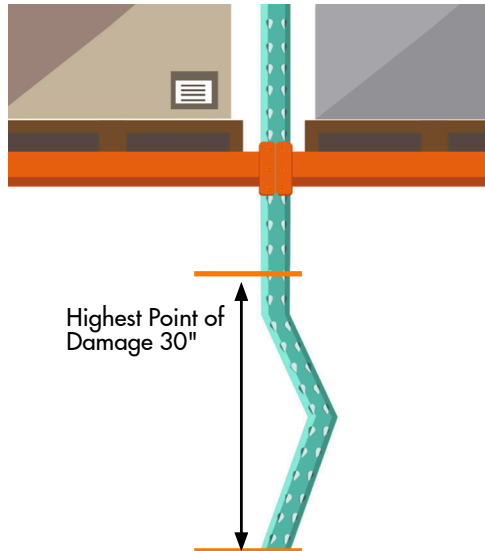


* Optional
Horizontal Strut Clip Kit
Diagonal Strut Clip Kit



STEP 1 PREPARE FOR INSTALLATION

1. Identify the Structurally Damaged Upright and Remove Obstructions Both Beside and Below, the Damaged Upright
2. Confirm Measurement of the Highest Point of Damage to the Upright and Verify the Correct Kit Size to be Installed (I.E. 24", 36", 48", 60" etc.)



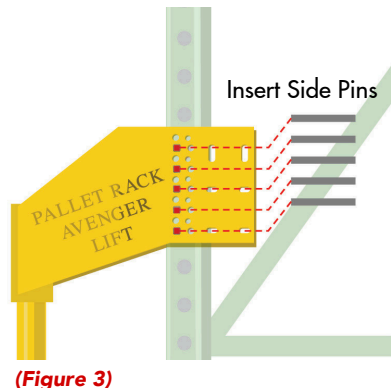
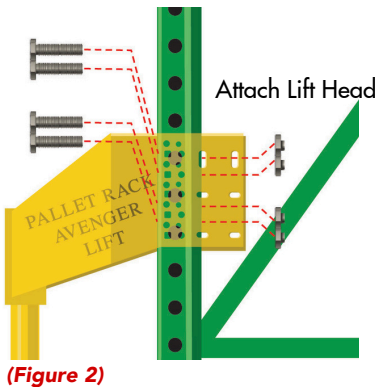
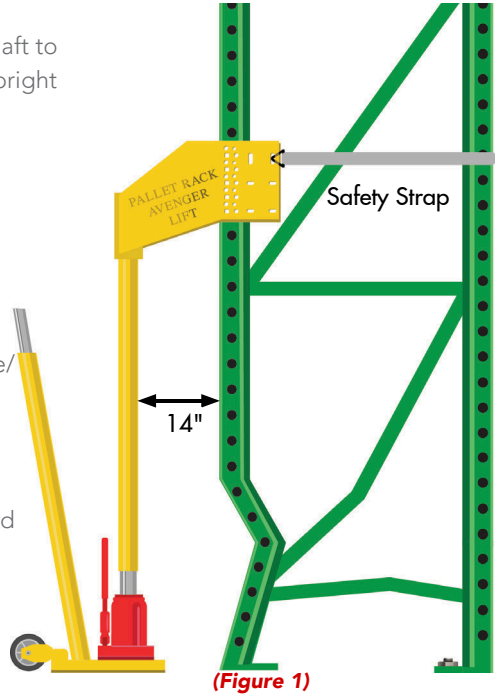


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STEP 2 ATTACH AVENGER RESCUE SYSTEM LIFT

1. Position the Avenger Rescue System Lift
14" from Inside of the Lift Shaft to the Face of the Damaged Upright
(Figure 1)
2. Mount the Lift Head Using
(4) ½" X 1½" Bolts with (2)
Bolts at the Top and (2)
Bolts at the Bottom of the
Plate. Tighten
to Snug, Then ½ Turn with a
Wrench **(Figure 2)**
3. Attached (6) Side Pins (Square/
Round Barstock) with (3)
Pins at the Top and (3)
Pins at the Bottom of the
Cuff **(Figure 3)**
4. Attach Safety Strap to Lift and
Around Rear Upright. Tighten
Until Snug - **Do Not Over-Tighten.**



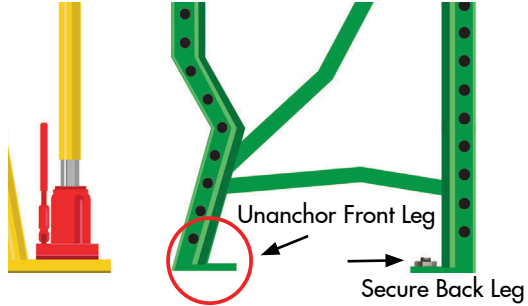


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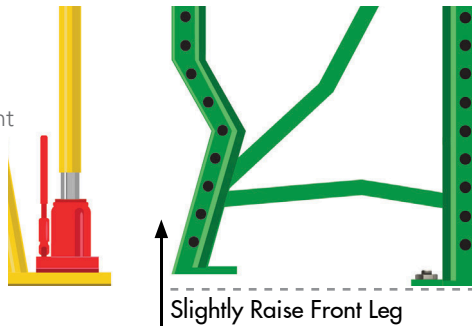
STEP 3 SECURE FOOT PLATES

1. Verify Rear Upright Foot Plate is Securely Anchored to the Ground
2. Unanchor the Front Leg of the Damage Upright



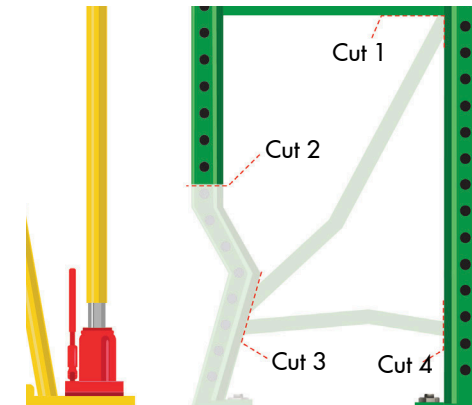
STEP 4 ENGAGE PALLET RACK AVENGER LIFT

1. With the Lift Securely Affixed to the Upright, Engage the Hydraulic Jack to Lift the Front of the Upright to Release the Tension No More Than ¼" from the Ground
2. Cut Anchor Stud Flush to Concrete with Sawzall



STEP 5 REMOVE DAMAGED PART

1. Using a Bandsaw or Sawzall, Cut the Front Leg and Bracing of the Upright at the Appropriate Mark
2. Remove Damaged Portion of the Upright.

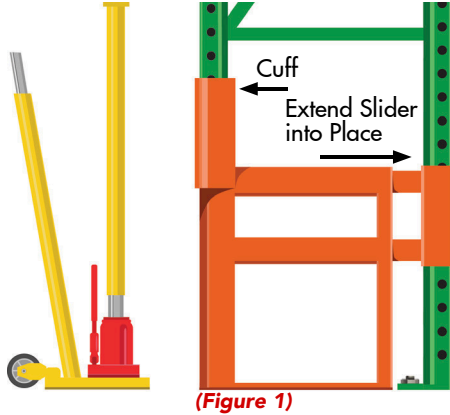


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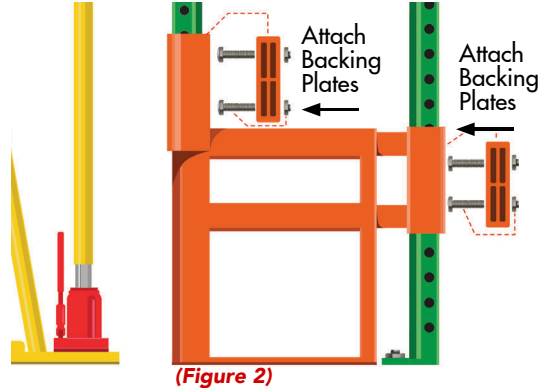
STEP 6 PALLET RACK AVENGER KIT INSTALL

- Slide Avenger PRO into Place by Positioning the Cut Upright Column into the Front Cuff **(Figure 1)**



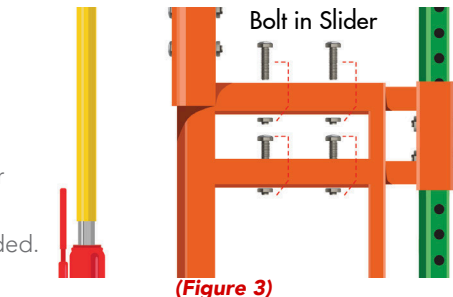
- Place Fully Adjustable Slider Snug to the Back Column Upright **(Figure 1)**

- Attach (1) Backing Plate to the Backside of the Cut Upright with (2) Carriage Bolts **(Figure 2)**



- Attach (1) Backing plate to the Backside of the Rear Post of the Upright with (2) Carriage Bolts **(Figure 2)**

- Secure the Fully Adjustable Slider with (4) 1/2" X 4" Carriage Bolts **(Figure 3)**



* Optional Drilling May Be Required Through the Face or Portion of Existing Upright for Proper Backing Plate Alignment. Reaming Tool is Recommended.

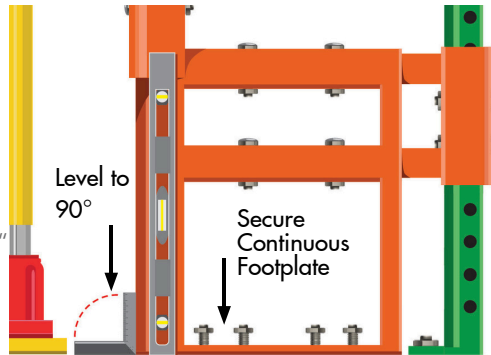


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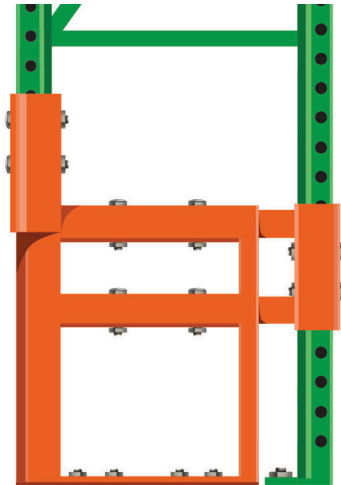
STEP 7 SECURE AVENGER PRO BASE TO FLOOR

1. Slowly Lower Lift
2. Use a Level to Square-Up the Kit to 90° from the Floor for Proper Anchoring
3. Secure Base of the Kit to the Floor with (4) $\frac{3}{4}$ " X $5\frac{1}{2}$ " Wedge Anchors



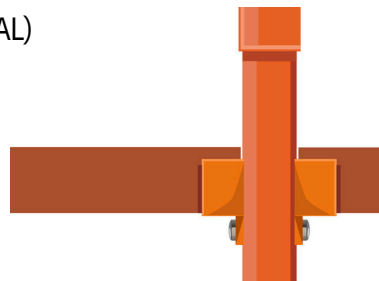
STEP 8 REMOVE SAFETY STRAP & LIFT

1. Release Tension from the Safety Strap and Remove
2. Remove (6) Safety Pins and (4) Bolts from the Lift Head
3. Remove the Avenger Rescue System Lift



STEP 9 HOOK-OVERS (OPTIONAL)

In Order to Replace Beams Back to Their Original Beam Level, Install Hook-Overs Directly to the Kit with $\frac{3}{8}$ X 1" Self-Tapping Screws Anywhere Below the Cuff.

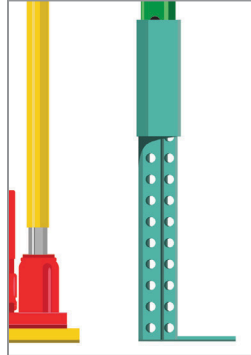


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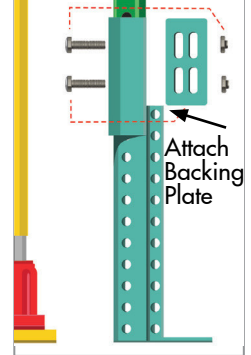
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STEP 6 AVENGER GUARD REPAIR KIT INSTALL

1. Slide Avenger Guard into Place by Positioning the Cut Upright Column into the Front Cuff (**Figure 1**)
2. Slightly Lower Lift until the Upright Rests Squarely onto the Repair Kit Seat (**Figure 1**)
3. Attach Front Cuff and Backing Plate with (2) Carriage Bolts to the Cut Upright (**Figure 2**)



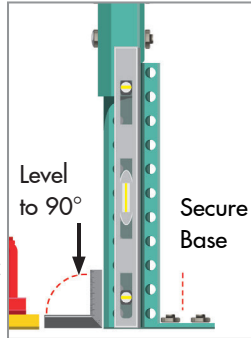
(Figure 1)



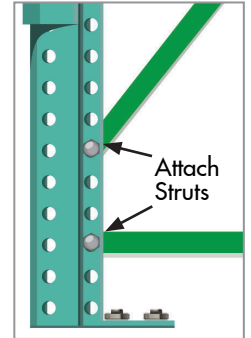
(Figure 2)

Use a Level and Square for Proper Alignment and Anchoring. Secure Base of the Kit to the Floor with (2) $\frac{3}{4}$ " X $5\frac{1}{2}$ " Wedge Anchors. (**Figure 3**)

4. If Struts Are 1.5" or Less, Insert the Strut into the Backer Column, Drill Clear Through the Backer Column and Strut. Then Place Supplied Bolt Through and Tighten. (**Figure 4**)

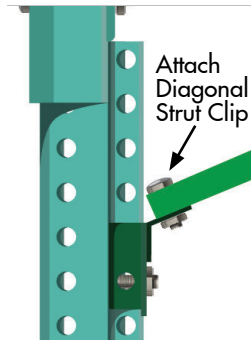


(Figure 3)



(Figure 4)

5. If Struts are Wider than 1.5", Optional Strut Clips are Required to Attach Strut. Attach Strut Clips to Backer Column as Shown. Drill Through Strut and Place Supplied Bolt Through and Tighten. (**Figure 5**)



(Figure 5)

