



**Instruction Manual  
&  
Parts Catalog**

**Aluminum  
Pickup Truck  
Rack  
400 Lb. Capacity**

**Model 110116**



**Read and understand this entire manual before assembling, installing, operating, or servicing this product.**

**SAVE THIS MANUAL**

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## IMPORTANT SAFETY INFORMATION

This is a **SAFETY ALERT** symbol.



It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



**DANGER** indicates a hazardous situation which, if not avoided, will result in death or injury.



**WARNING** indicates 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** indicates important information which, if not followed, may cause damage to equipment.

## SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions. The manual offers important information on how to assemble, use and maintain this product.

Write the product's model number and purchase date on the cover page of this manual.

Keep this manual (and your purchase receipt) in a safe place.

## UNPACKING

The shipment should be thoroughly inspected as soon as it is received. The signed "bill of lading" is acknowledgement by the carrier of receipt in good condition or shipment covered by our invoice. For your own protection, if any of the goods called for on the bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods.

**Notify AVITEC immediately if any hidden loss or damage is discovered after receipt.**

## Definition of Symbols




**WARNING** concerning Risk of Eye Injury. Wear ANSI approved eye protection.



**WARNING** concerning Risk of Hearing Loss. Wear hearing protection.





## IMPORTANT SAFETY INSTRUCTIONS

1.  **Read and understand all safety warnings and instructions.** Failure to follow the warnings and instructions may result in serious injury or death. Save all warnings and instructions for future reference.

### 2. Personal and Work Area Safety

- A.  **Always wear ANSI approved safety goggles.**

- B.  **Always wear hearing protection when working in noisy environments.** Prolonged exposure to high intensity noise can cause hearing loss.

- C.  **Use safety equipment.** Safety shoes, hard hat and work gloves must be used for applicable conditions.

- D. **Dress appropriately.** Never wear loose fitting clothing or jewelry when working. Contain long hair, and keep hair, clothing and gloves away from moving parts.

- E. **Use common sense when working.** Stay alert and concentrate when setting up and using the Pickup Truck Rack. Never work while under the influence of alcohol, drugs or medications.

## Personal and Work Area Safety (continued)

- F. **While assembling and using the Pickup Truck Rack keep work area clean and well lighted. Keep spectators and children out of the work area.**

### 3. Use of the Pickup Truck Rack

- A. **The Pickup Truck Rack must be securely bolted into the bed of the truck. The front and back racks of the Pickup Truck Rack have a combined maximum carry capacity of 400 Lbs.; weight must be evenly distributed.**

- B. This Pickup Truck Rack is designed to carry ladders, deck boards, piping, rebar, sports equipment and other long objects. **Do not modify the Pickup Truck Rack and do not use this product for purposes that it was not designed for.**

- C. **Never exceed the maximum weight capacity of 400 Lbs. (weight must be evenly distributed).**

- D. **Be aware of the danger of "dynamic loading"**. This situation arises when a load is dropped onto the Pickup Truck Rack, resulting in a short term excessive load. Dynamic loading can result in damage and failure of the Pickup Truck Rack, damage to the truck, and personal injury to the person(s) loading the Pickup Truck Rack.

- E. **Never load people or animals onto the Pickup Truck Rack.** Keep children and spectators well clear when loading and using this product.

- F. **Adhere to all Department of Transportation (D.O.T.) requirements when using this product.** Use ropes and tie downs to securely hold all cargo in place.

- G. For the vehicle that will support the Pickup Truck Rack, read all pertinent vehicle

instructions and warnings provided in the owner's manual. **Make sure the vehicle's engine is OFF, with parking brake set, before setting up, loading or unloading the Pickup Truck Rack.**

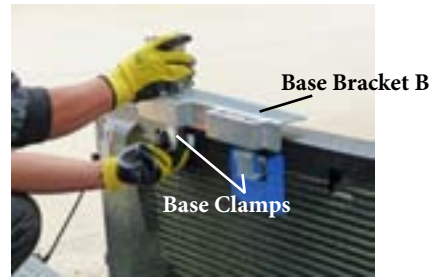
H. Before installing the rack, and before making any alterations to the truck liner, make sure that no electrical lines or gas tanks are in the path of the work being done. After installation of the Pickup Truck Rack, recheck electrical lines and braking system to insure proper operation.

**Keep in mind that the warnings previously discussed cannot cover all possible conditions or situations that could occur. It is important that the person loading/unloading and using this product understand that common sense and caution are factors which cannot be built into this product, and must be supplied by the person(s) using this product.**

## Limited Warranty

AVITEC warrants to the original retail purchaser that the product is free of defects in material and workmanship at the time of shipment. This Pickup Truck Rack is warranted for 90 days from the date of purchase. This warranty is expressly in lieu of all other warranties, express or implied. Proof of purchase is required for warranty transactions; a copy of the original invoice or sales receipt is required.

## Assembling and Setting Up the Pickup Truck Rack



### WARNING

Setting up and mounting the Pickup Truck Rack to the truckbed requires complete assembly. If the truckbed has a liner, minor modifications have to be made to the liner. Components can be bulky to position in place. It is recommended that two people complete the assembly and setup. If you are not experienced in doing this type of setup work, the installation of the Pickup Truck Rack should be done by qualified service technicians.

1. Refer to photo above of an already assembled Pickup Truck Rack, and to the Assembly Diagram at end of this manual.

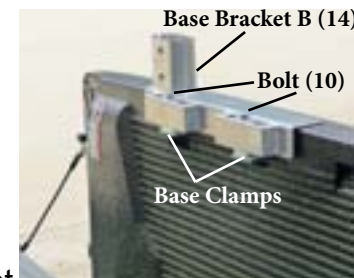
2. On a soft surface (to avoid damaging the components), lay out the major components.

3. Plan where the four Base Brackets (13, 14) are to be located in the truck bed. Notice the difference between Base Bracket A and Base Bracket B. For purposes of this manual we will show how Base Bracket B (14) is set up in the back left corner of a truck bed that has a liner. We will show how the truck bed liner needs to be modified. The other Base Brackets are set up in similar fashion. The same steps apply for assembling the Base Brackets and Base Clamps in a truck bed without a liner.

4. Position the Base Bracket B (14) over the lip of the truck bed in the desired location. Fit two Base Clamps (6) underneath the Base Bracket and note how the Base Clamps will fit up inside the Base Brackets.

If the truck bed has a liner, two rectangular cut-outs will have to be cut in the liner as shown in the above photos. Approximate size of cut-outs is 2" wide x 1-1/2" height. It is recommended that the top and sides of the cut-out be made first, and the bottom edge be folded inward (this will help hold the Base Clamps (6) in place while they are being secured to the Base Brackets).

Use one Bolt (10) with Spring Washer (11) and Flat Washer (12) to secure each Base Clamp (6) to the Base Bracket (14). Photo to the right shows the Base Bracket in place.



### NOTICE

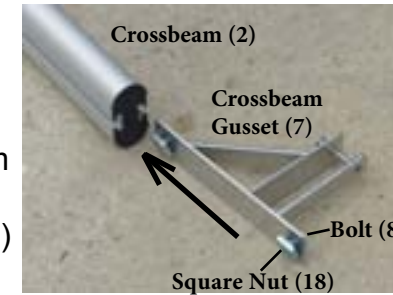
Assemble the other 3 Base Brackets in the same fashion.

The left side/right side Base Brackets must be precisely positioned in exact, but opposite sides of the truck bed so that the Crossbeam (2)/Posts (3) will align properly for assembly.

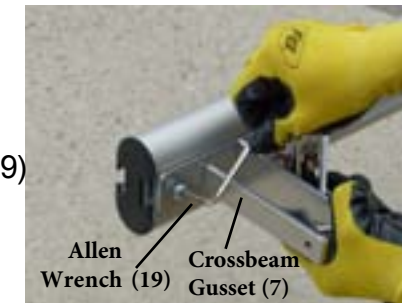
## 5. Assembling the Crossbeam (2) to the Posts (3):

See photo to the right.

Place two Bolts (8) through the Crossbeam Gusset (7). Hand tighten Square Nut (18) to the Bolts. Note how the Square Nuts will slide into the groove on the bottom side of the Crossbeam (2).



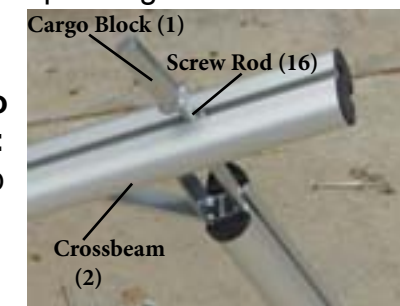
Slide Crossbeam Gusset in place and use Allen Wrench (19) to lightly tighten Crossbeam Gusset in place.



Assemble the other Crossbeam Gusset (7) on the opposite end of Crossbeam (2) in the same manner.

**Add the Cargo Blocks:** Slide the Screw Rod (16) into the groove along the top of the Crossbeam (2) - see photo below. Thread on handle of Cargo Block. Do the same for other Cargo Block located on opposite end of Crossbeam (2). Cargo Blocks are adjustable side-to-side depending on the load being carried.

**Adding Posts (3) to the Crossbeam (2):** Slide the Post (3) up into the Crossbeam Gusset (7). Secure in place with Post Mount Bolt (9) - see photo, upper right. Attach the other Post (3) in the same manner.

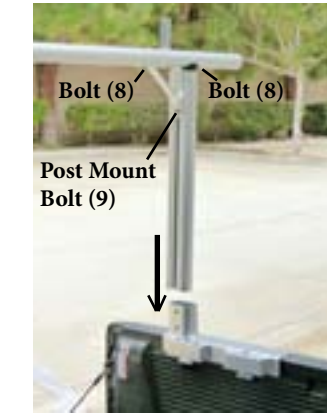


## 6. Adjusting the position of the Posts (3) to meet the width of the truckbed:

The Posts can be positioned up to 70" from each other. By loosening the 2 Bolts (8) on

each Crossbeam Gusset (7), the Posts can slide along the length of the Crossbeam (2) until they align with the Base Bracket. When aligned properly, tighten the Bolts (8). Then put lower end of Post into the Base Bracket as shown in photo below.

Tighten in place with 2 Post Mount Bolts (15). Do the same for the other Post.



This completes assembly of the back Rack. Assemble the front Rack the same way. With assembly complete, make sure all bolts and hardware are tight and secure.

## 7. Using the Aluminum Truck Rack:

Adhere to all Department of Transportation (D.O.T.) requirements when using this product. Use ropes and tie downs to securely hold all cargo in place.

Before and after each use, check to make sure that all hardware is tightly secured.

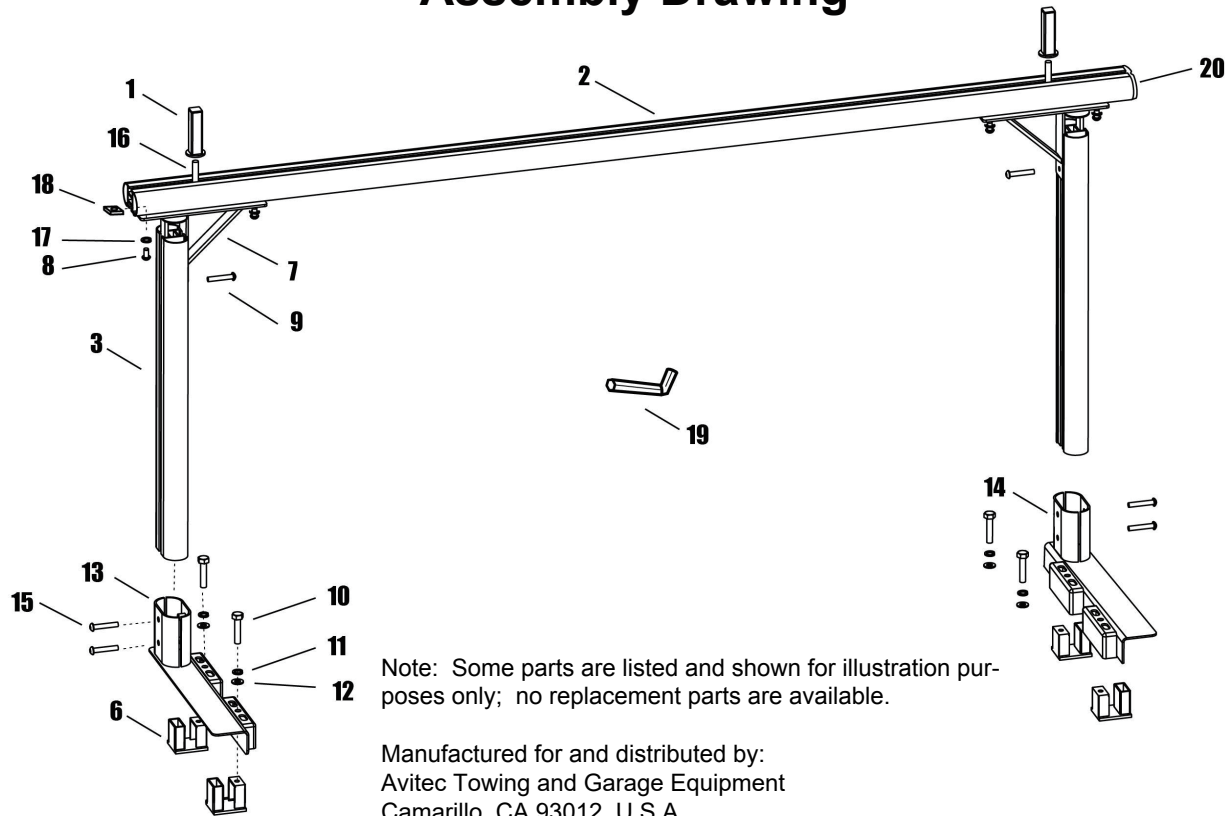
### SPECIFICATIONS

Maximum Weight Capacity	400 Lbs. (combined front and back rack capacity). Weight must be evenly distributed.
Construction	Extruded Aluminum  Crossbars: Adjust to 70" length to fit most truck beds. Reinforced structure for increased strength.  Uprights: Support height = 26"

# Parts List

Part #	Description	Qty
1	Cargo Block	4
2	Crossbeam	2
3	Post	4
6	Base Clamp	8
7	Crossbeam Gusset	4
8	Bolt M8x15	8
9	Post Mount Bolt (upper end) M8x45	4
10	Bolt M10x40	8
11	Spring Washer 10	8
12	Flat Washer 10	8
13	Base Bracket A	2
14	Base Bracket B	2
15	Post Mount Bolt (lower end) M8x50	8
16	Screw Rod	4
17	Spring Washer 10	8
18	Square Nut M8	8
19	Allen Wrench	1
20	End Cap	4

## Assembly Drawing



Note: Some parts are listed and shown for illustration purposes only; no replacement parts are available.

Manufactured for and distributed by:  
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