

ASSEMBLY AND INSTALLATION INSTRUCTIONS

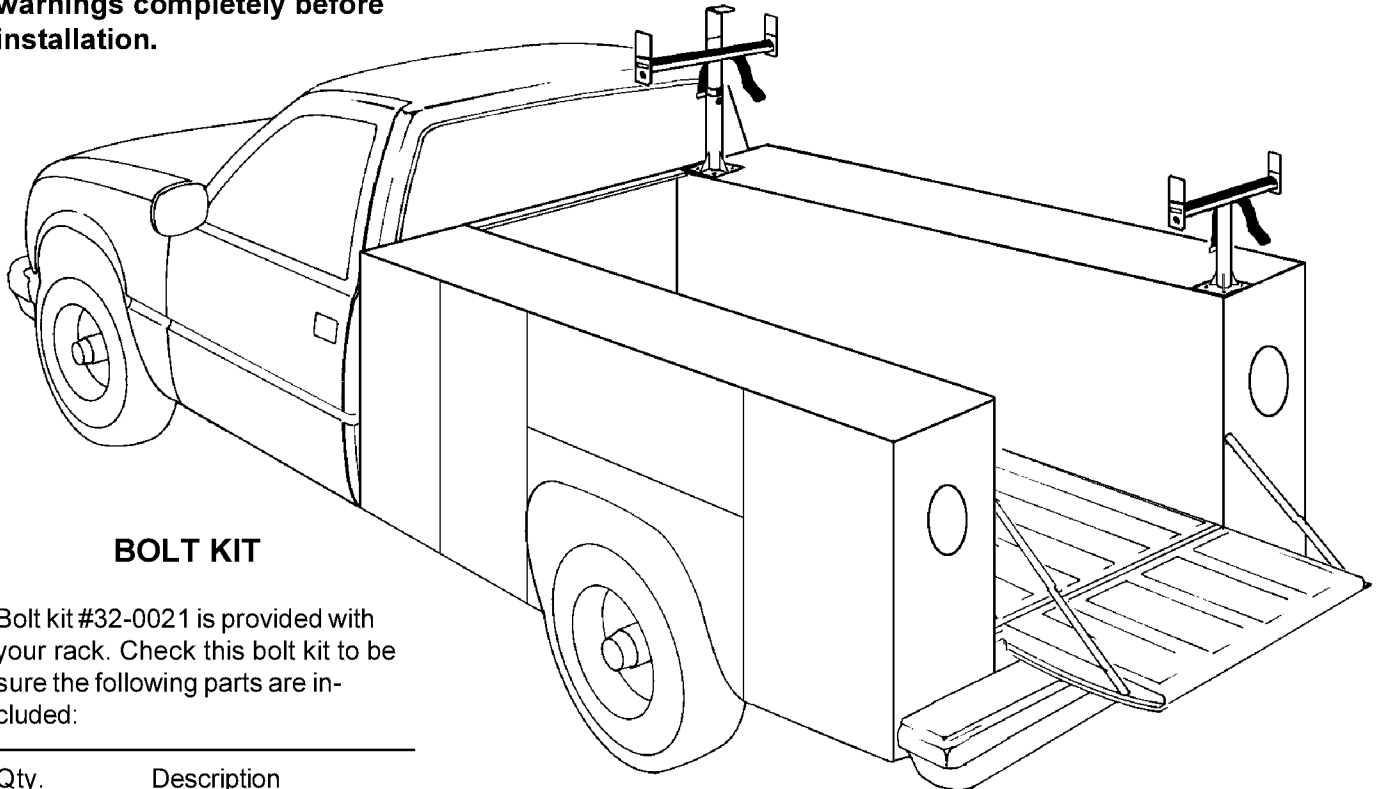
Model 1425 Aluminum Swivel Rack

IMPORTANT BEFORE YOU BEGIN

Read these instructions and warnings completely before installation.

CAPACITY
200 lbs.
MAXIMUM

NOTE: This product is to be installed only on all-steel service bodies



BOLT KIT

Bolt kit #32-0021 is provided with your rack. Check this bolt kit to be sure the following parts are included:

Qty.	Description
4	5/16-18 x 1-1/4" Hex Hd Bolt
20	5/16" Flat Washer
2	5/16-18 x 3" Hex Hd. Bolt
14	5/16-18 Nylon Lock Nut
8	5/16-18 x 1-1/4" Carriage Bolt
1	Tube, Sealant - Clear

* See back page for Bolt Chart

TOOLS REQUIRED

- Electric drill
- 3/8" Drill Bit
- 1/2" Open or Box End Wrench
- 3/8" Drive Ratchet
- 1/2" Socket
- Hammer
- Center Punch
- Hacksaw
- Ruler
- Pencil
- Straight Edge - 2' long

⚠ WARNING

This product is only intended for, and only safe for, transporting ladders. It is the responsibility of the user to secure the ladder to the rack before transporting. Any modifications made to this product, or use of this product for any other purpose than its intended use, will create a hazardous condition that will cause serious personal injury or property damage.

Rev. A 7/04 Part No. 24-0145

weather guard[®]

DIVISION OF KNAACK MFG. CO.

Refer to this illustration
for part identification

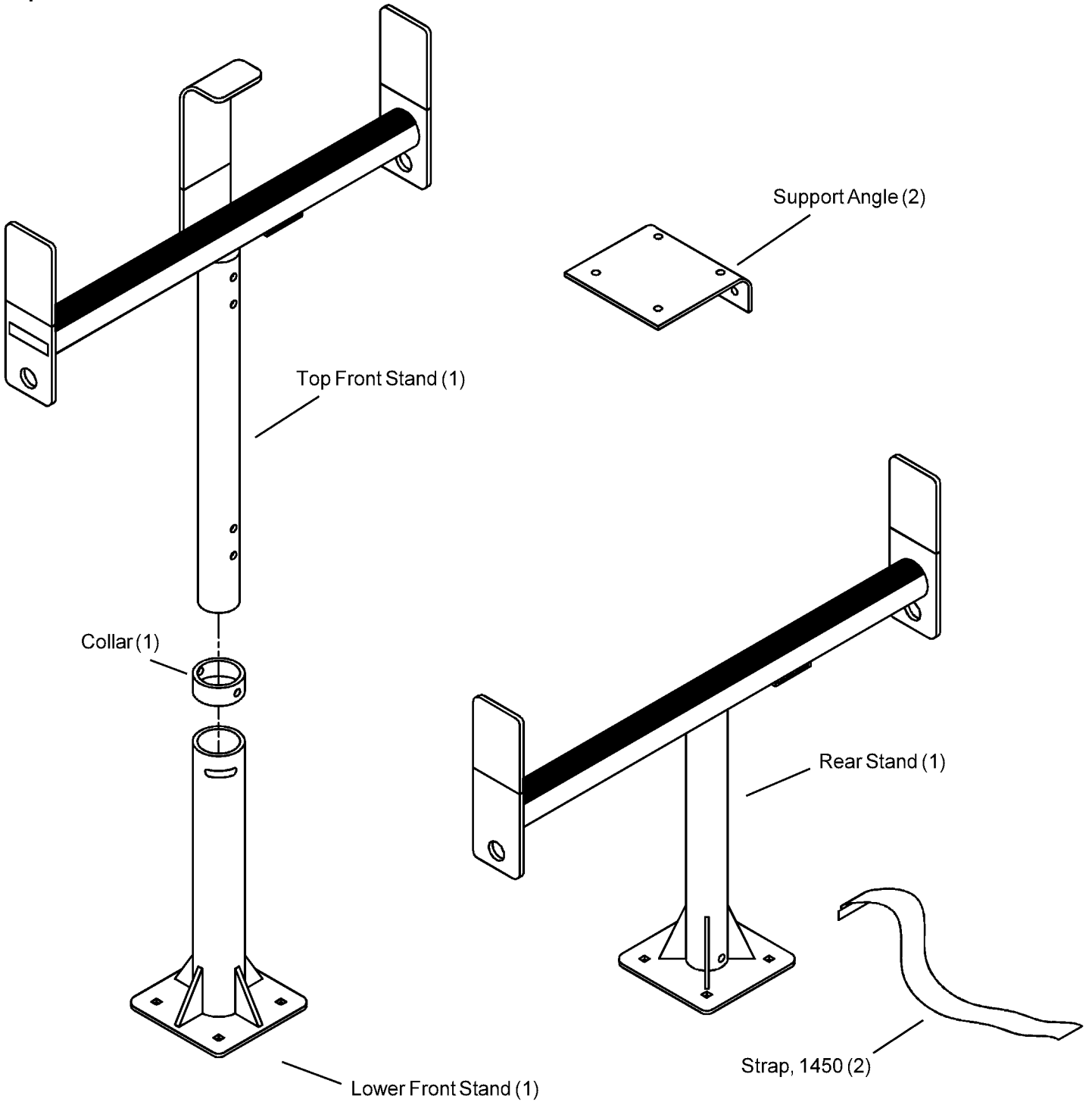


Figure 1. Parts Identification

ASSEMBLY AND INSTALLATION INSTRUCTIONS

⚠ CAUTION

To keep debris out of your eyes when drilling, always wear protective eyewear.

NOTE: To prevent rust from occurring, touch-up any drilled holes.

1. Front Stand Height - The Front Stand is pre-drilled for 16" and 30" heights (See Figure 2.), and for mounting on driver or passenger sides of a vehicle. The height of the Stand is pre-drilled for heights of 16" & 30", but can be adjusted anywhere in-between by drilling additional holes.

NOTE: 30" is the maximum height. Do not drill any holes below the bottom hole in the Upper Stand. For Stand heights of 16" to 20" it will be necessary to cut 4" off the bottom of the Upper Front Stand tube. For heights of 20" to 30", no cutting is necessary.

For Stand heights between 16" & 30", using the straight edge, draw a pencil line on the Upper Front Stand tube from the center of the upper holes to the center of the lower holes (See Figure 3.). Insert the Upper Front Stand tube into the Lower Front Stand tube, then place the Stand in position on the service body. Hold the Upper Front Stand at the desired height in the Lower Front Stand, allowing for approximately 2" of clearance between the roof and the front crossmember side stops (See Figure 4.). Mark the Upper Front Stand through the Lower Front Stand slotted hole. Remove the Upper Front Stand. The mark must be in-line with the pre-drilled holes, if it is not, extend the mark so that it crosses the pencil line. Mark the tube for another hole, 1-1/2" above the marked hole for the Collar mounting hole. Drill these marks with a 3/8" drill bit, completely through the tube.

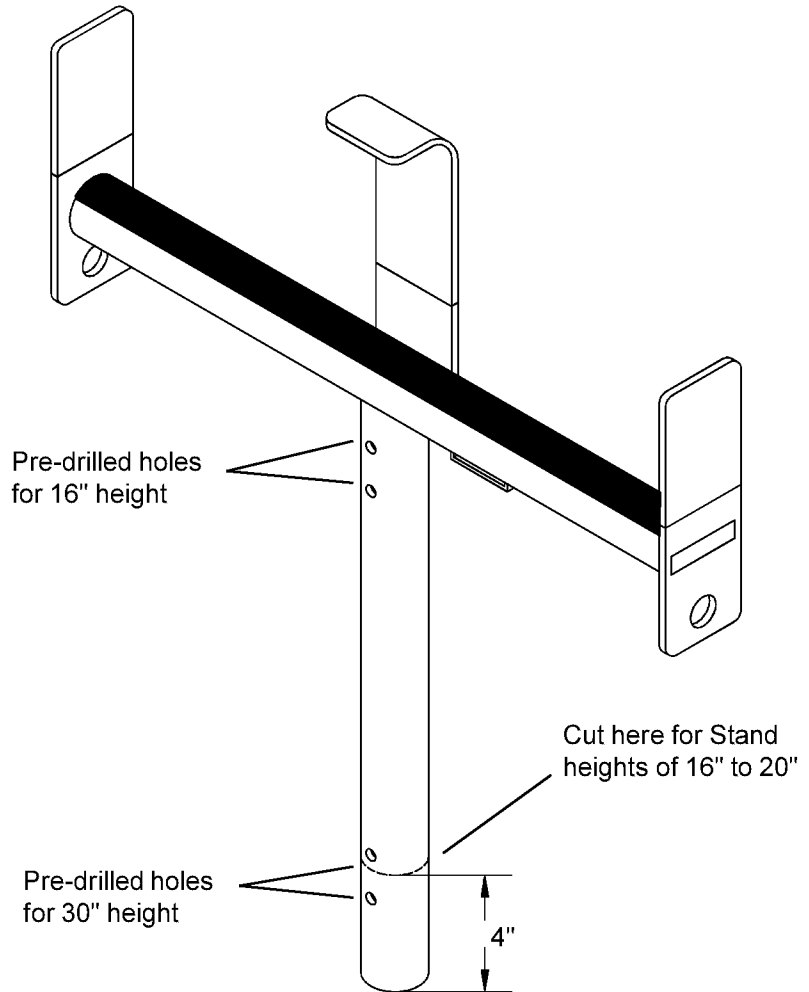


Figure 2. 16" & 30" height pre-drilled holes

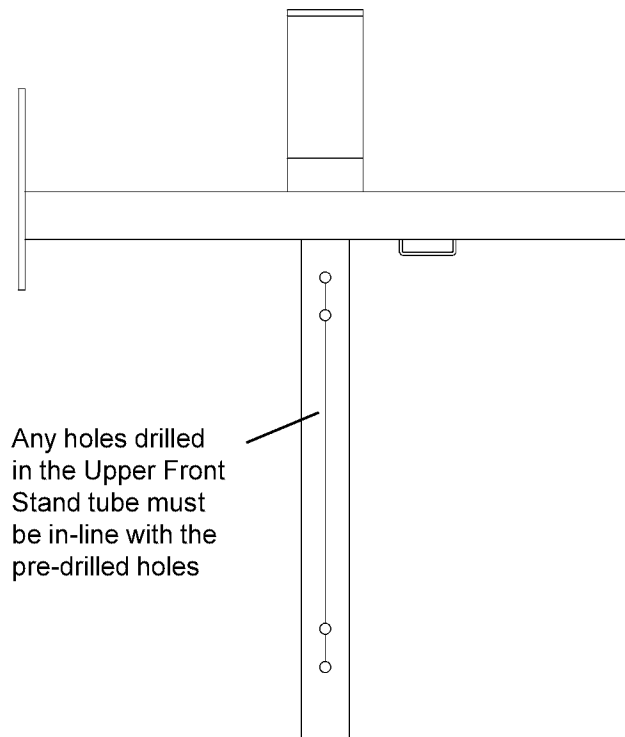


Figure 3. Hole alignment

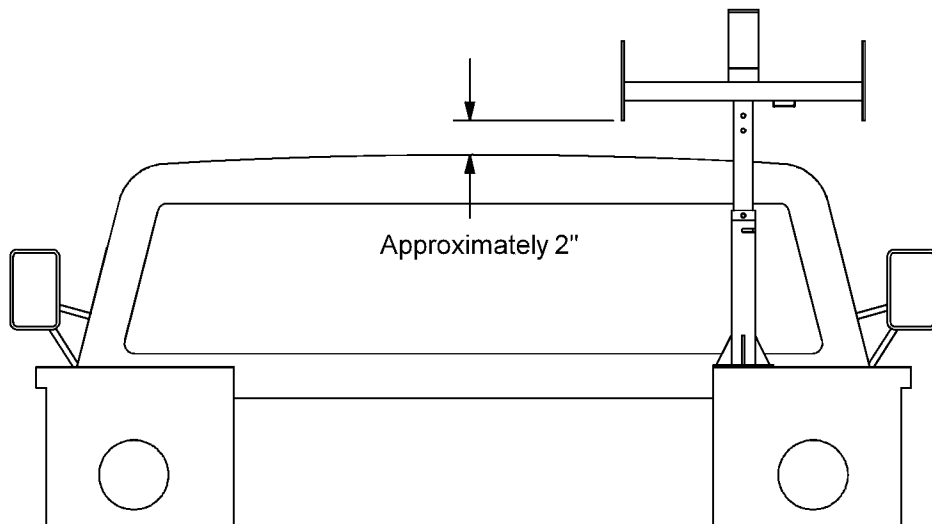


Figure 4. Roof clearance

2. Front Stand Assembly -

Fasten the Upper Front Stand to the Lower Front Stand through either the top or bottom set of holes, or the holes you drilled (See Figure 5.). Do not tighten the bolt for the slot completely, it must be loose enough so the Stand will swivel.

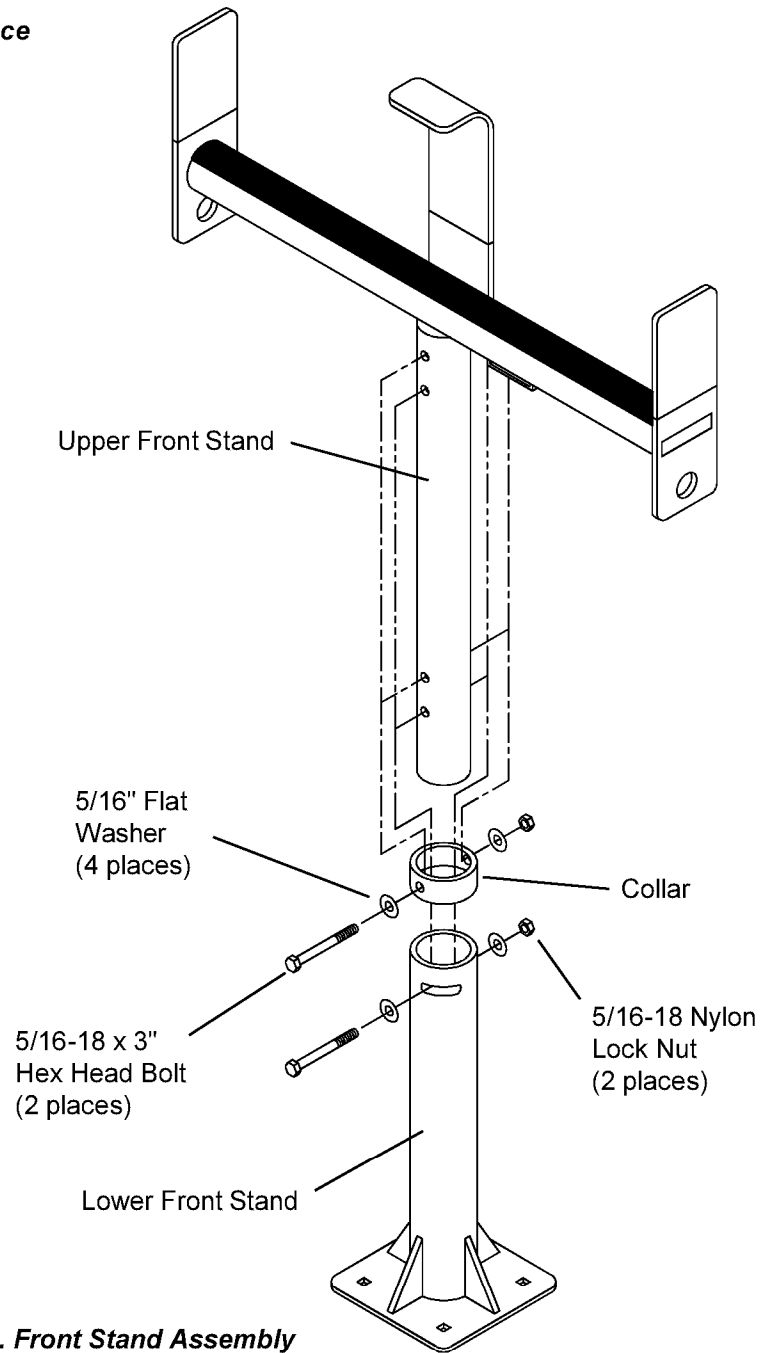


Figure 5. Front Stand Assembly

3. Support Angle Marking -

The Front Stand will be located as shown in Figure 6. when installed. From the inside of the service body "side box", position a Support Angle in the front upper corner, against the top and end panel of the box (See Figure 7.). Some boxes will require mounting through the top and back (See Figure 8.), and it may be necessary due to the construction of the box, to move the Support Angle away from the corner. Mark through all six of the Support Angle holes (See Figure 7. and 8.). Repeat this in the inside back of the service body with the other Support Angle at the other end of the box.

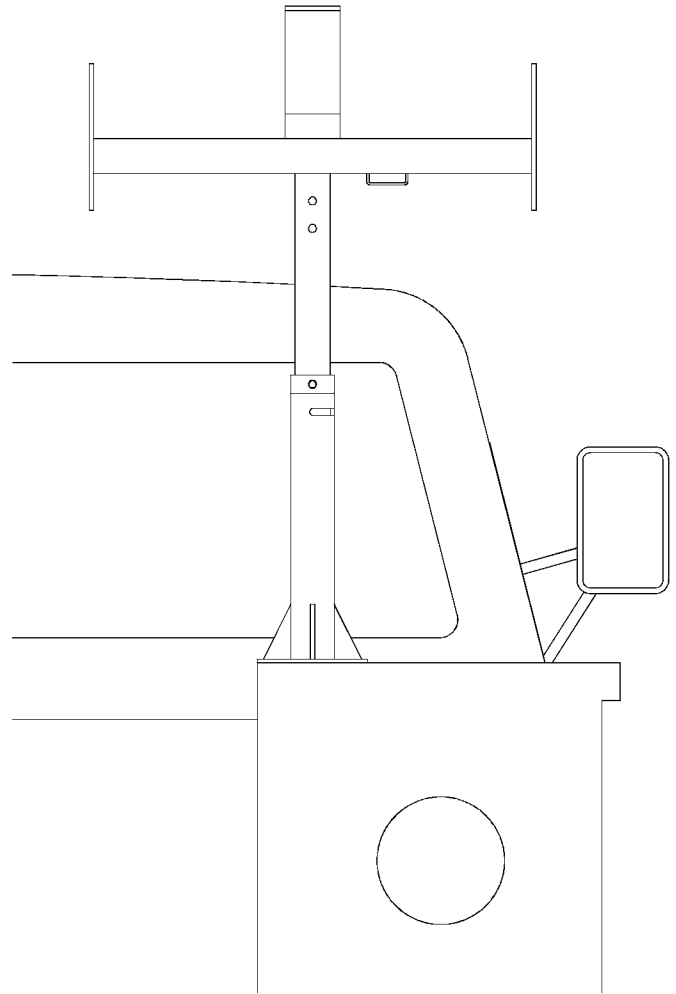


Figure 6. Stand Placement

Placement may vary due to the construction of the box

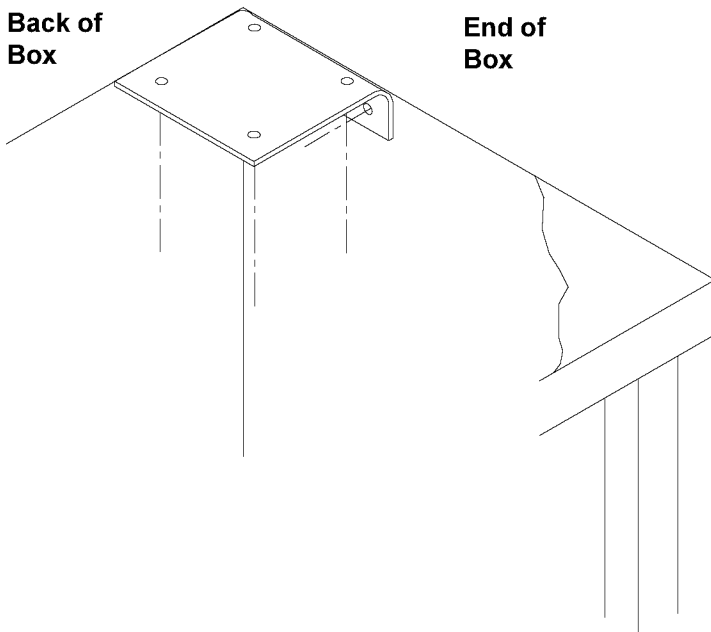


Figure 7. Support Angle Placement (top & end panel)

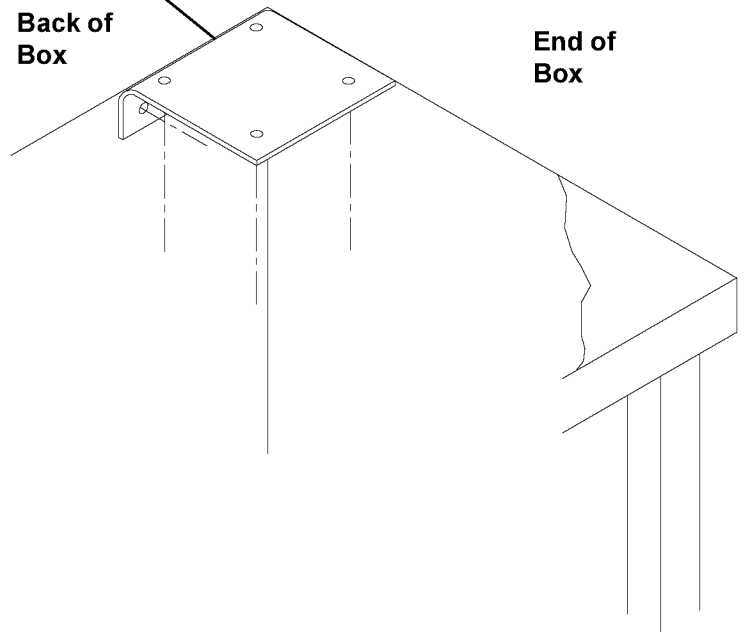


Figure 8. Support Angle Placement (top & back panel)

⚠ CAUTION

Prior to drilling, so as not to cut electric wires, etc., check the vehicle for locations.

4. Drilling - Drill the marks with a 3/8" drill bit.

NOTE: When installing the Front and Rear Stands, be sure to use the sealant provided under all external fasteners, as well as the mounting bases of the Stands.

NOTE: When installing the Front Stand on the driver side, position the Stand so that it will swivel from facing the rear of the truck to facing the side, in a clockwise direction (See Figure 9.). When installing the Front Stand on the passenger side, position the Stand so that it will swivel from facing the rear of the truck to facing the side, in a counter clockwise direction (See Figure 10.).

5. Front Stand Mounting -

Fasten the Front Stand to the service body (See Figure 9.), again making sure to use sealant.

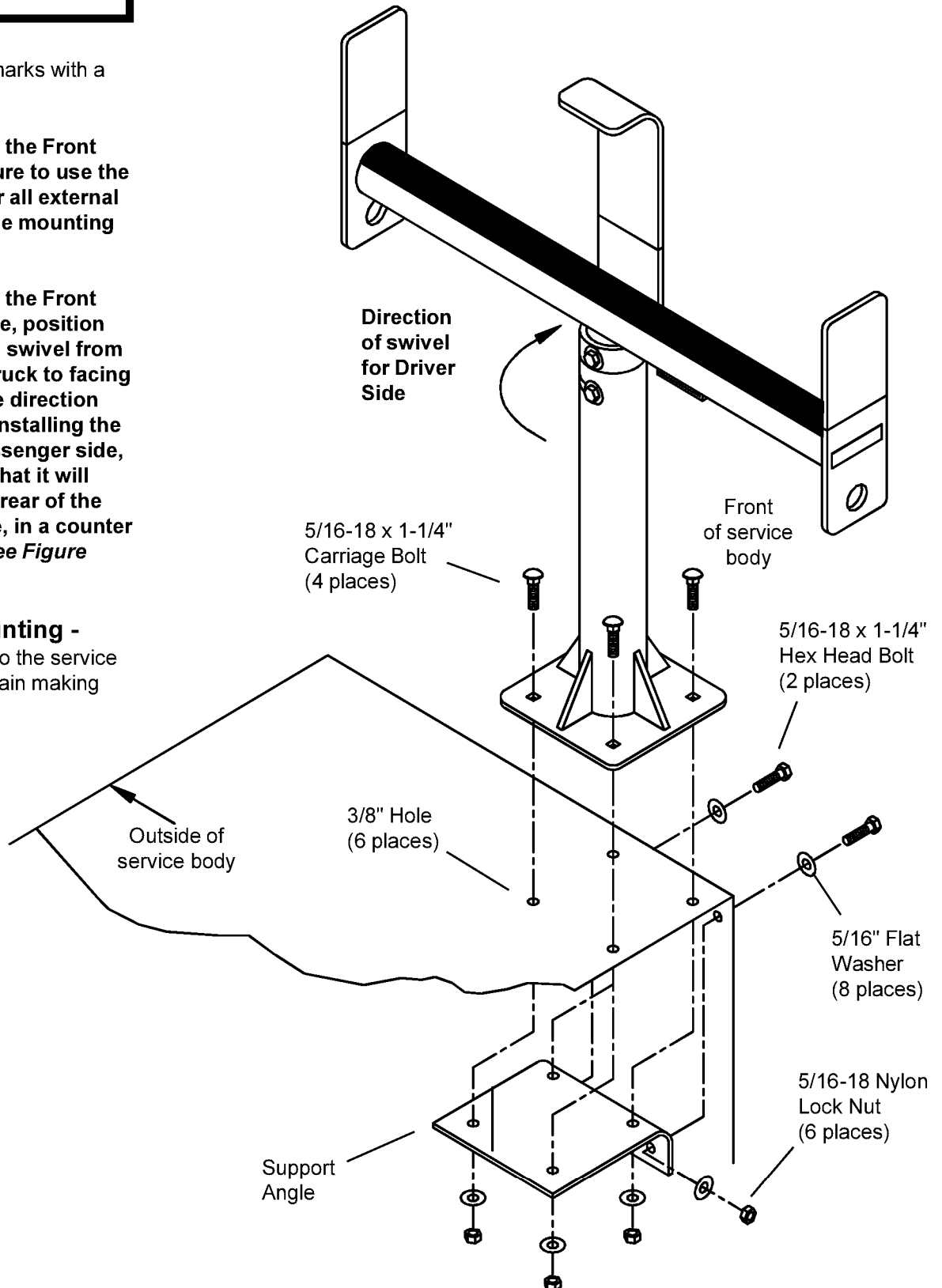


Figure 9. Front Stand Installation (shown on driver side)

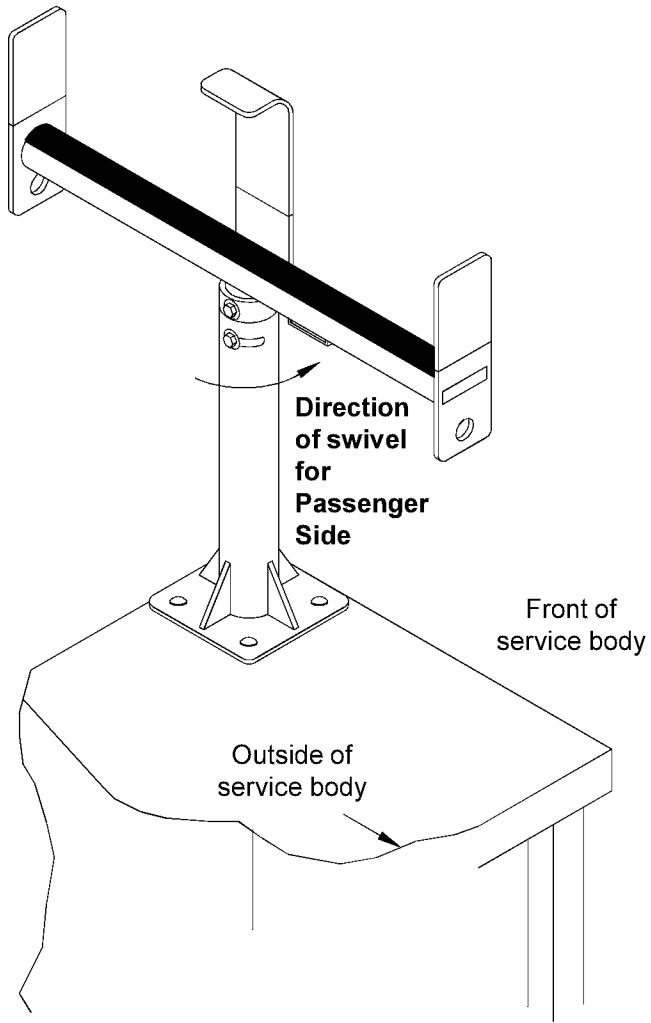


Figure 10. Front Stand Installed (shown on passenger side)

6. Rear Stand Mounting -

Fasten the Rear Stand to the service body with the upright tube drain hole towards the rear of the vehicle (See Figure 11.). The Rear Stand will fasten to the service body using the same fasteners shown in Figure 9..

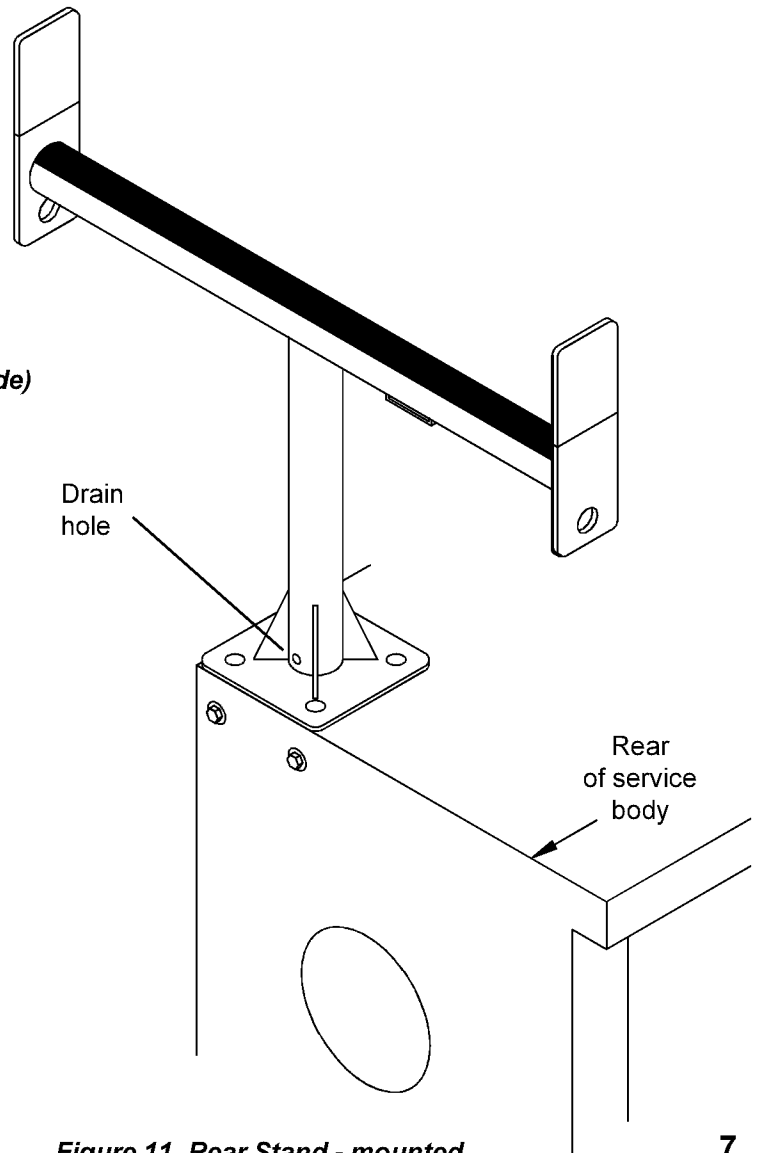


Figure 11. Rear Stand - mounted

WARNING

Ladders must be secured per ANSI standard A142.2-1990 paragraph 8.4.4. Ladder damage will occur from road shock and vehicle vibration if the ladder is not properly secured to the ladder rack. Bouncing and side to side motion of a improperly secured ladder will cause wear and weaken the ladder. Using a damaged ladder could lead to a structural collapse and could result in a serious injury or death.

WEATHER GUARD® REFINISHING PROCEDURES

All Weather Guard® products are finished with a polyester powder coating, and it is important to follow these procedures to get proper adhesion. As Weather Guard® cannot control the finishing of the products, Weather Guard®'s warranty on paint is not applicable on refinished products.

1. Sand the surface to be painted with 180-200 grit sand paper to rough up the surface. This should be followed by wet sanding with a 400 grit wet or dry paper.

2. Wipe down the sanded surface with ketone based thinner. This removes the dust and softens the powder coating for better paint adhesion.

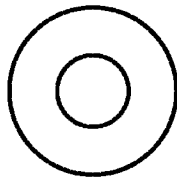
3. Wipe sanded area with a tack rag to remove loose dust and particles before painting.

NOTE: Do not use a lacquer over the powdered coating.

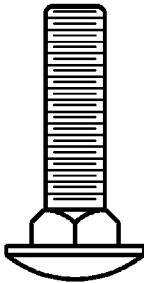
Bolt Chart



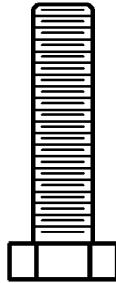
5/16-18
Nylon
Lock Nut



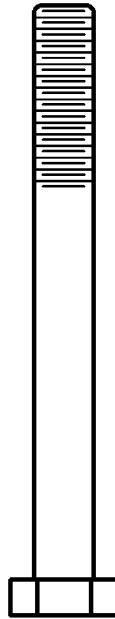
5/16 Flat
Washer



5/16-18 x 1-1/4"
Carriage Bolt



5/16-18 x 1-1/4"
Hex Hd. Bolt



5/16-18 x 3"
Hex Hd. Bolt

- NOTICE -

Any modification or unintended use of this product shall immediately void all manufacturers warranties. Manufacturer disclaims all liability for injuries to persons or property resulting from any modification to, or unintended use of this product.

If you have any questions, please give us a call. **Call Toll Free 1-800-456-7865**



Weather Guard® products are protected by one or more of the following patents or trademarks:
U.S. - 842268, 1661625, 1663369, 1750034, 2362167; Canada - 282725; U.K. - 1400720;
N.Z. - 296049; AUS. - 761964; other patents pending.

KNAACK
MANUFACTURING
COMPANY

KNAACK MANUFACTURING COMPANY
420 E. TERRA COTTA AVENUE -
CRYSTAL LAKE, ILLINOIS, 60014 - 815-459-6020
©2004 Knaack Manufacturing Company


EMERSON
Professional Tools