



**Assembly, Installation, Operation, and
Maintenance Instructions
Contractor Ladder Rack – 800 lbs.**

**Part Number:
FCLR002B**

90 minutes

Dealer / Installer: Provide a copy of these instructions to the end-user of this product. These instructions provide important operating and safety information for the proper usage of this product. Demonstrate the proper use of the product with the end-user. Have the end-user demonstrate that they understand the proper use of the product.

End User: Read and follow all instructions included in this manual. Ask your Dealer / Installer for assistance if you do not understand the proper use of the product.

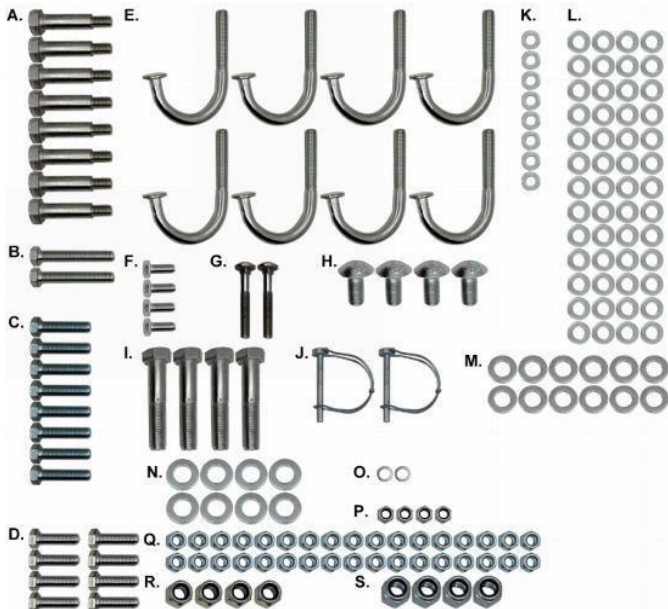
⚠️ WARNING ⚠️

- Do not load any cargo on the Rack with the rear crossbar removed.
- The Rack is rated for an **800 lb. limit**. Do not overload the Rack.
- Always balance the load.
- Read all instructions before attempting to assemble the Rack.
- After the Rack is fully assembled make sure all nuts and bolts are properly tightened.
- Periodically check for loose or missing bolts, nuts, etc.
- Follow the instructions below to ensure proper assembly and installation.

APPLICATION: Universal (Long and Short bed)

PARTS LIST

Qty	Part Description	Qty	Part Description
A 8	M12x70 Heterogeneous Hex. Bolts	K 8	Dia 10 Flat Washer
B 2	M12x75 Hex. Bolts	L 52	Dia 12 Flat Washer
C 8	M12x50 Hex. Bolts	M 12	Dia 16 Flat Washer
D 8	M12x40 Hex. Bolts	N 8	Dia 18 Flat Washer
E 8	M12x100 "J" Hooks	O 2	Dia 10 Spring Washer
F 4	M12x25 Hex. Bolts	P 4	M10 Lock Nuts
G 2	M10x70 Carriage Bolts	Q 34	M12 Lock Nuts
H 4	M16x35 Carriage Bolts	R 4	M16 Lock Nuts
I 4	M18x90 Hex. Bolts	S 4	M18 Lock Nuts
J 2	Dia 6.3 Quick Disconnect Pins		



TOOLS REQUIRED

Socket Wrench Set
Adjustable Wrench
Rubber Mallet
Drill and 5/16" Bit (for permanent installation)

IMPORTANT SAFETY INSTRUCTIONS

1. Do not load any cargo on the Rack with the rear crossbar removed.
2. The Rack is rated for an **800 lbs. limit**. Do not overload the Rack and always balance the load.
3. After the Rack is fully assembled make sure all nuts and bolts are properly tightened.
4. Periodically check for loose or missing bolts, nuts, etc.

WARNING:

The Contractors Rack requires careful step-by-step assembly. Please follow the instructions below to ensure proper assembly and installation. Failure to properly assemble and/or install the Contractors Rack may result in severe or fatal personal injury or property damage. We are not responsible for injury or damage caused by improper installation or use.

BEFORE YOU BEGIN:

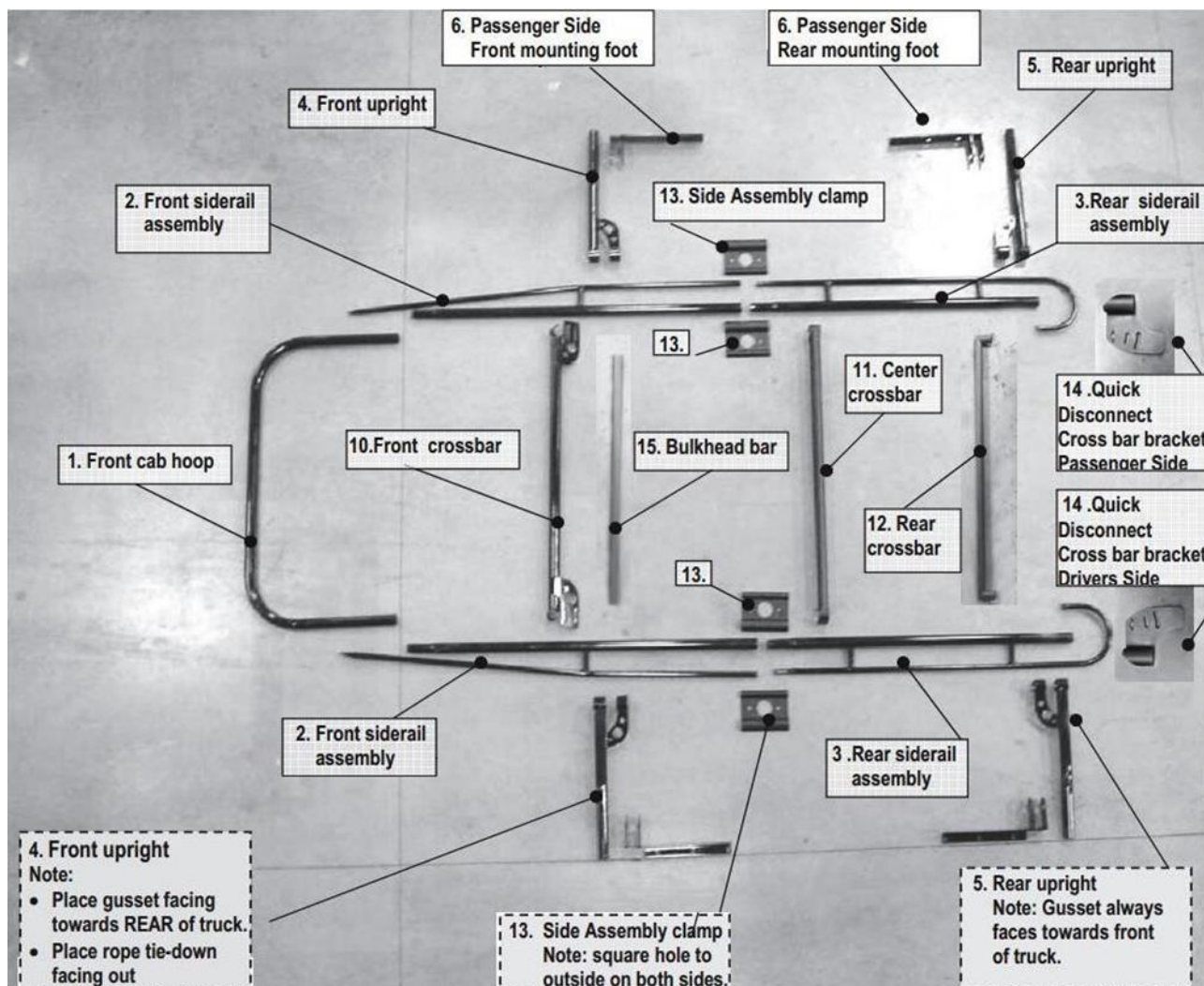
There are 20 pieces that make up the Truck Tools Contractors Rack (excluding hardware). Below are two layouts that show the correct placement of these pieces for both short bed and long bed truck installations. The placement is very different depending on which size bed the rack will be installed on. Please turn to the page which corresponds to your size truck bed and layout the components as shown.

Note: If these components are not correctly positioned it will become necessary to disassemble the Rack and start over again.

COMPONENTS INCLUDED:

Arrange the components in a large work area as shown below. Several components have been highlighted by a dotted line box. Please pay special attention to the highlighted components as these are critical to the assembly process. If these components are not correctly positioned it will become necessary to disassemble the rack and start over again.

PRE-ASSEMBLY PREPARATION FOR SHORT BED TRUCKS



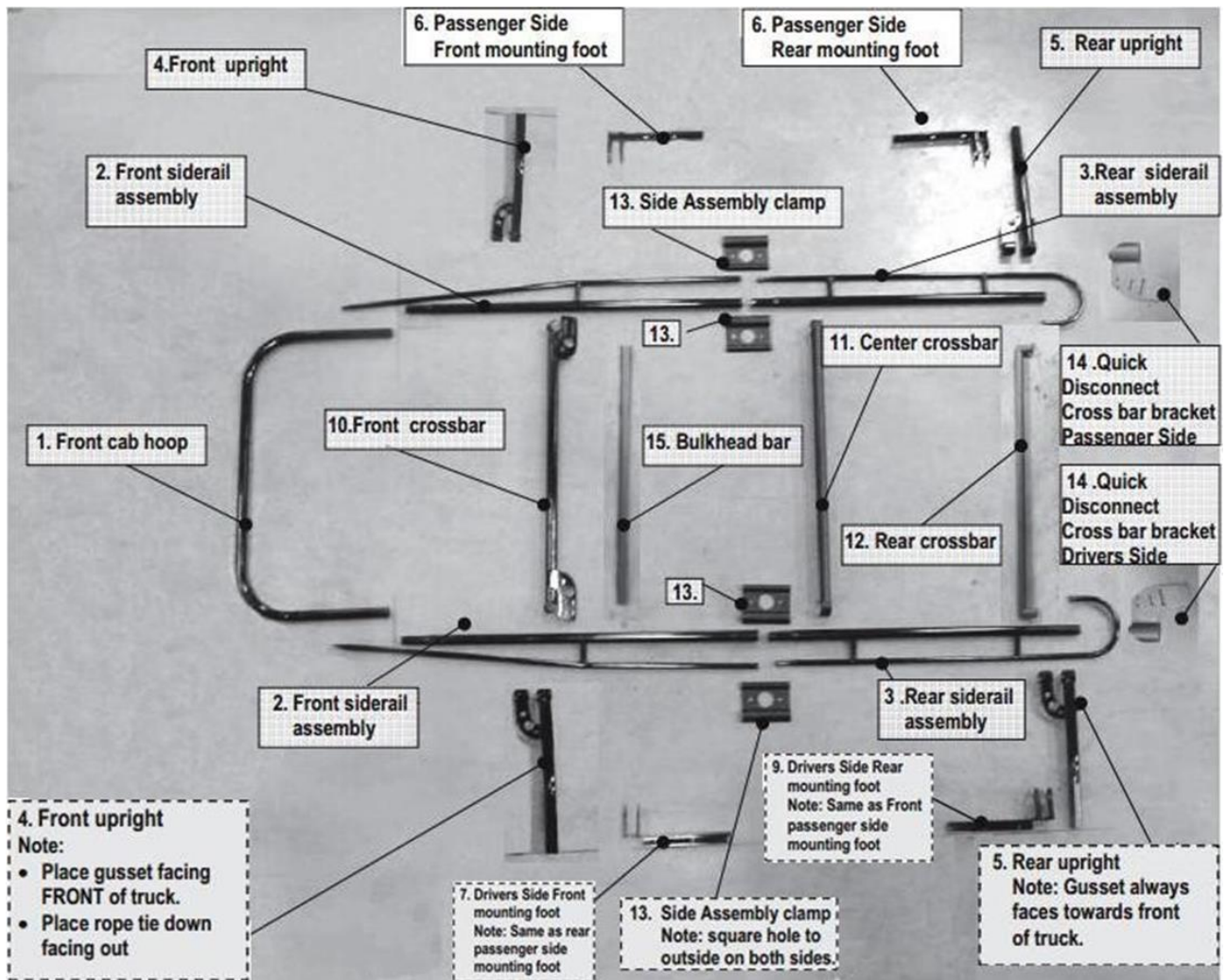
IMPORTANT NOTE: Rear Cross Bar and Quick Disconnect Cross Bar Bracket are NOT shown in the layout above

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PRE-ASSEMBLY PREPARATION FOR LONG BED TRUCKS



PARTS LIST

No.	Qty	Part Description	No.	Qty	Part Description
1	1	Front hoop	9	1	Drivers side Rear mounting foot
2	2	Front side rail assemblies	10	1	Front Cross bar
3	2	Rear side rail assemblies	11	1	Center Cross bar
4	2	Front uprights passenger and drivers side	12	1	Rear Cross bar
5	2	Rear uprights passenger and drivers side	13	4	Side clamps – 2 with square holes & 2 with round holes
6	1	Passenger side Front mounting foot	14	2	Quick Disconnect Rear Cross Bar Bracket
7	1	Drivers side Front mounting foot	15	1	Front Bulkhead bar
8	1	Passenger side Rear mounting foot			

COMPONENT NOTES

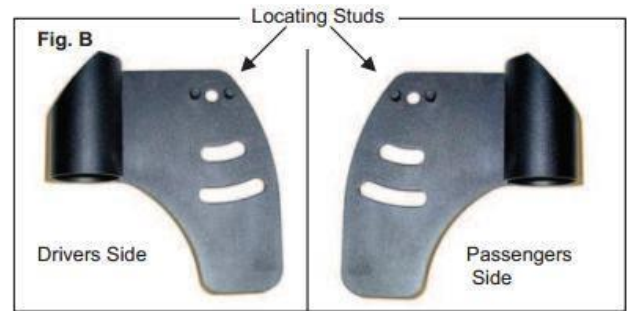
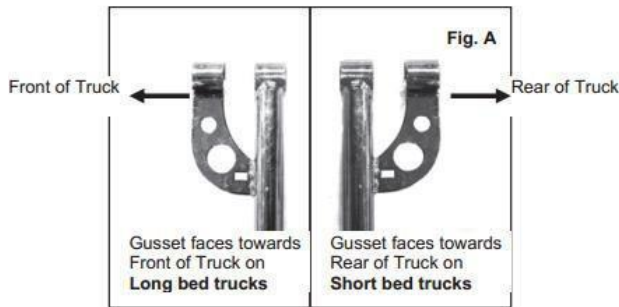
Do a final check of the component layout after reading the notes below.

Front Uprights (Fig. A)

Pay special attention to the 4 uprights. The clamps must face the inside (bedside) of the rack. The gussets face towards the rear of the truck for short bed installations and towards the front of the truck for long bed truck installations.

Rear Uprights (Fig. B)

Quick Disconnect Cross Bar Bracket. Two locating studs line up with two holes in the back of the rear side rail assembly.

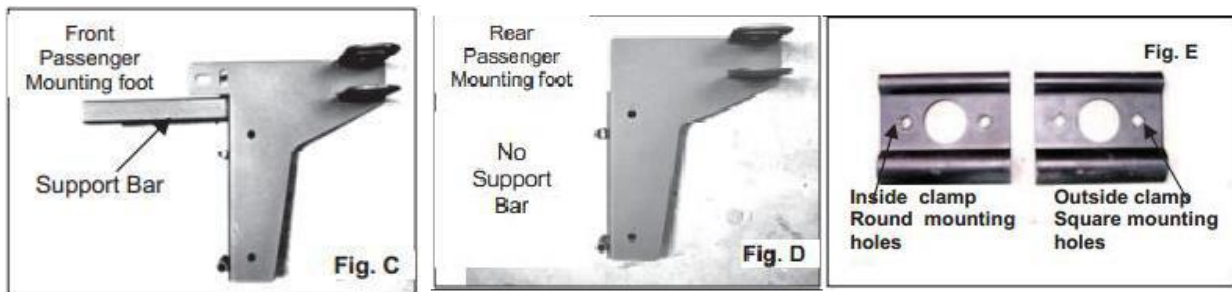


Mounting Feet (Fig. C & Fig. D)

The front driver and passenger side have a tab and support bar attachment for the bulkhead bar to slide over and install. The rear driver and passenger side have no support bar.

Side rail Clamps (Fig. E)

The Side clamps that the side rail assembly have 2 square holes and 2 round holes. The square holes, when installed, face the outside of the rack.



Front Cross bar detail



Center Cross bar details



Rear Cross bar detail

INSTALLATION PROCEDURE

STEP 1: FRONT MOUNTING FOOT AND BULKHEAD BAR PRE-ASSEMBLY

Once you are satisfied that your layout is correct you can begin the assembly process.

1. Locate the driver-side front mounting foot and position it on the truck bed rail (Fig 1). Repeat step 1) for the passenger side.
2. Locate the front bulk-head bar and slide it over the support arm welded on the mounting foot (Fig 2). Repeat step 2) for the other side of the bulkhead bar.
3. Push the mounting foot firmly against the side rail of the truck bed and mark the position of the mounting holes on the truck rail (Fig 3). Repeat step 3) for the other side mounting foot.

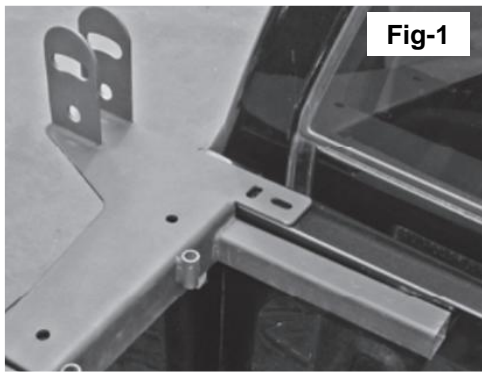


Fig-1

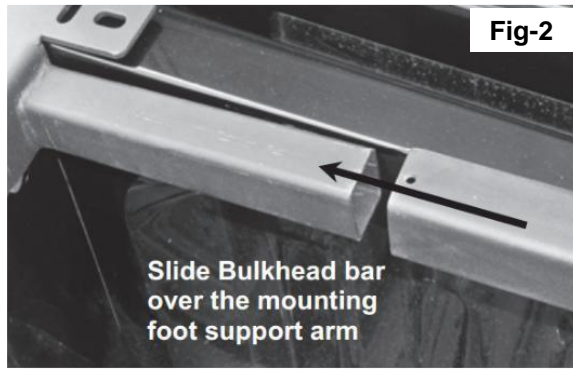


Fig-2

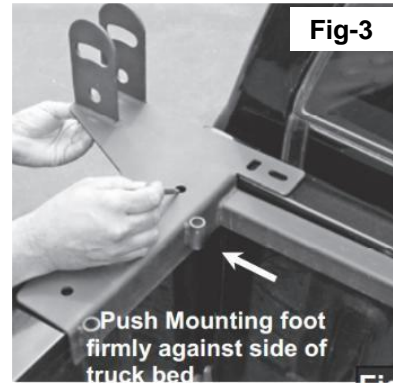


Fig-3

- Using a 5/16" drill bit drill the truck bed rail in the position marked above. (Fig 4)

NOTE: Before drilling your vehicle's bed rail check to see if you can drill a clear hole from the top of the bed rail to the underside. You will need a minimum of 2 bolts to attach each mounting foot to the vehicle. If you do not have 2 clear holes, realign the spacing of the uprights on the bed rails until you do. It may be necessary to drill a new hole in the mounting foot in order to complete the installation.

- Secure the mounting foot with 1 ea. M10 x 25 bolt and nut. (do not use washers at this time) DO NOT TIGHTEN NUTS. Repeat step 4) and 5) for the other side mounting foot.
- Measure the gap between the bulkhead bar and the mounting foot and make sure the gap is the same for both the passenger and driver side mounting foot. (Fig 5 & Fig 6)

Note: On some model trucks it may be necessary to modify the bulkhead bar by cutting the length.



Fig 4

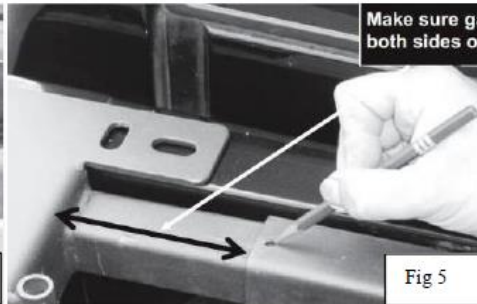


Fig 5

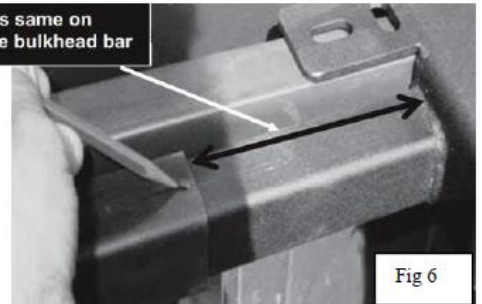


Fig 6

- Mark the position of the bulkhead bar mounting hole on the support arm and drill a hole through the support arm. Repeat step 7) for the other side.
- Attach the bulkhead bar to the support arm on both passenger and driver side mounting foot with the 2 ea. 5/16" x 2 1/2" bolts, lock nuts, and washers provided. Once the bulkhead bar has been properly sized and attached to the pass and the driver's mounting foot proceed to remove the assembled bulkhead bar from the truck and set this assembly aside for later use. Continue with the rack assembly.

STEP 2: REAR COMPONENT ASSEMBLY

Once you are satisfied that your layout is correct you can begin the assembly process.

- Locate the driver-side front mounting foot and position it on the truck bed rail (Fig 1). Repeat step 1) for the passenger side.
- Locate the front bulk-head bar and slide it over the support arm welded on the mounting foot (Fig 2). Repeat step 2) for the other side of the bulkhead bar.
Push the mounting foot firmly against the side rail of the truck bed and mark the position of the mounting holes on the truck rail (Fig 3). Repeat step 3) for the other side mounting foot.

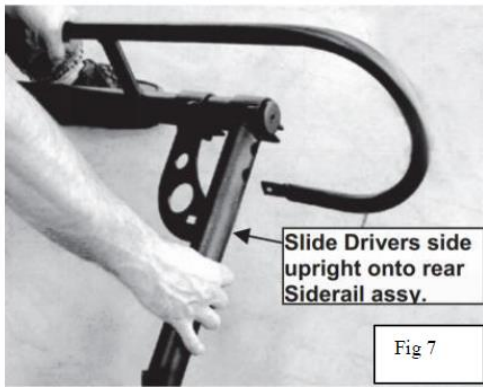


Fig 7

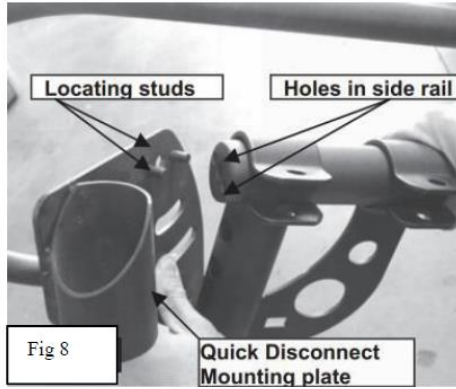


Fig 8

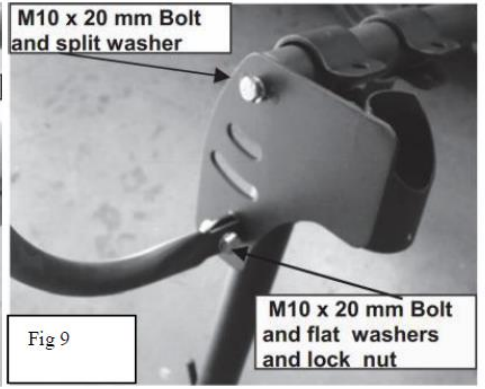


Fig 9

Note: Proceed to fully tighten the bolts in Fig 8.

Do not tighten any other bolts until directed to do so.

3. Attach the Rear Upright to the Quick Disconnect Mounting plate using (2) M16 x 70mm (1) M12 and (1) M 16 flat washers and (2) locknuts. (Fig 10)
Repeat steps 1) through 3) for the opposite side.
4. Attach Rear Cross Bar to Quick Disconnect Crossbar brackets using the supplied Quick Disconnect pins. (Fig 11)
Repeat step 4) for the opposite side.

NOTE: Do Not Tighten Any Bolts at this time.

5. Install the rear driver's side mounting foot to the bottom of the rear driver's side upright. Bolt the upright to the mounting foot using 2 # 18 x 100 mm bolts, flat washers, spring washers, and locknuts. (Fig 12)

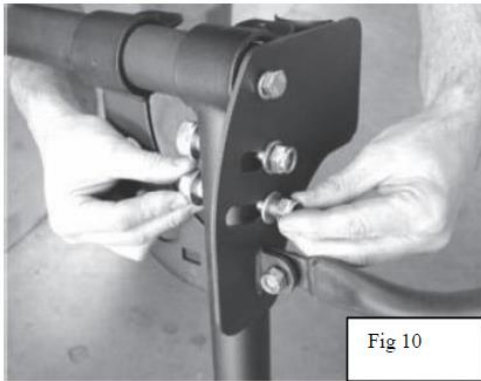


Fig 10

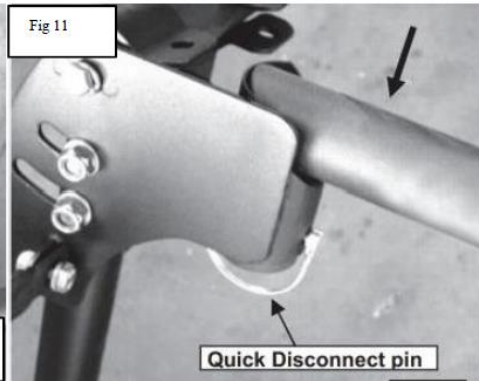


Fig 11

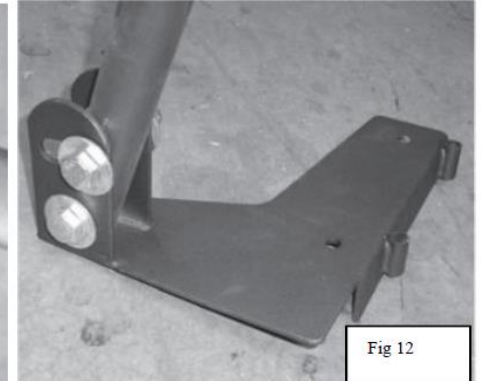


Fig 12

DO NOT TIGHTEN NUTS

Note: The lip of the foot must face towards the inside of the truck bed.

Repeat step 5) for the rear passenger's side mounting foot. (Fig 13)

6. Install 2 #12 x 45mm bolts with flat washers, spring washers, and locknuts into the top clamp portion of the rear upright (Fig 14). Repeat for the other side. Do Not Tighten

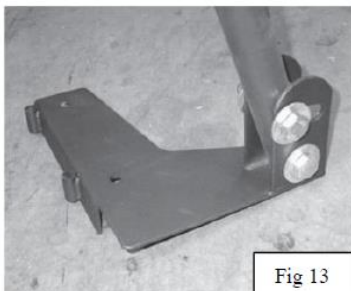


Fig 13

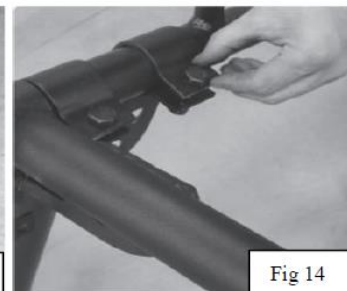


Fig 14

Important Notice: The rear portion of the rack should now be fully assembled. Only the (2)10mm bolts holding the rear crossbar, and the (2)10 mm bolts holding the grab handle should be tightened.

At this point, all other bolts should be loose.

STEP 3: FRONT COMPONENT ASSEMBLY

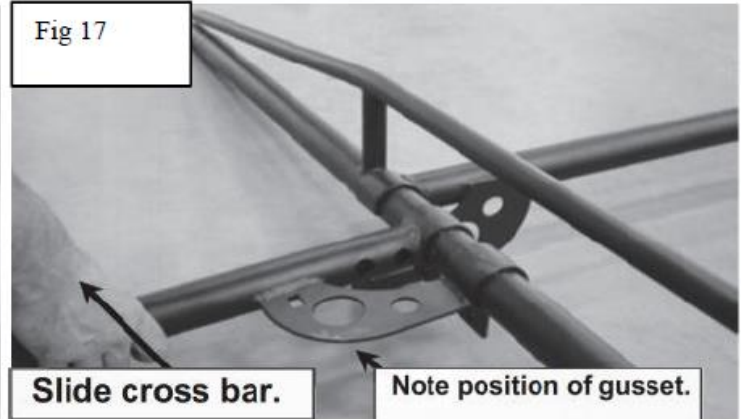
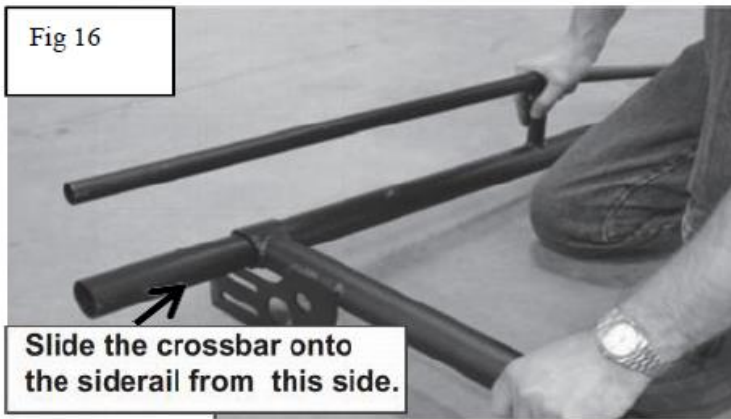
Follow the instructions below which correspond to the truck bed size that you will be installing the rack on.

IMPORTANT NOTICE: There are two positions for the front uprights and the front crossbar, depending on whether the rack is to be installed on a short bed or long bed truck. Determine whether you have a long bed or short bed truck application and side the components onto the side rail as outlined in this illustration. (Fig 15)



Short Bed Assembly

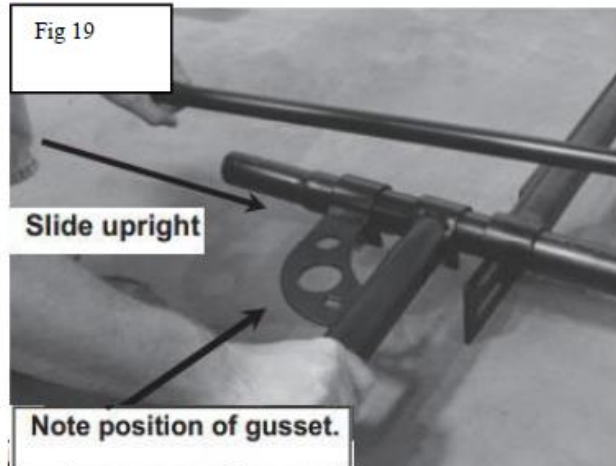
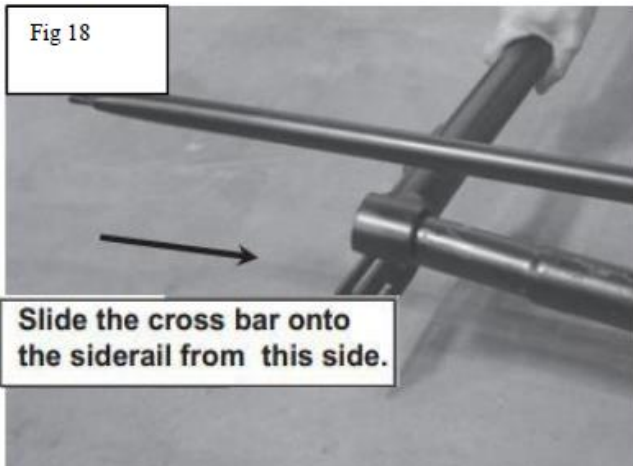
1. Slide the front crossbar onto the front side rail assembly (Fig 16). Repeat for the other side.
2. Slide the front upright on behind the front crossbar. (Fig 17)



Repeat step 1) and 2) for the other side

Long Bed Assembly

1. Slide the front crossbar onto the front side rail assembly. (Fig 18)
2. Slide the front upright on behind the front crossbar. (Fig 19)
Repeat step 1) and 2) for the other side

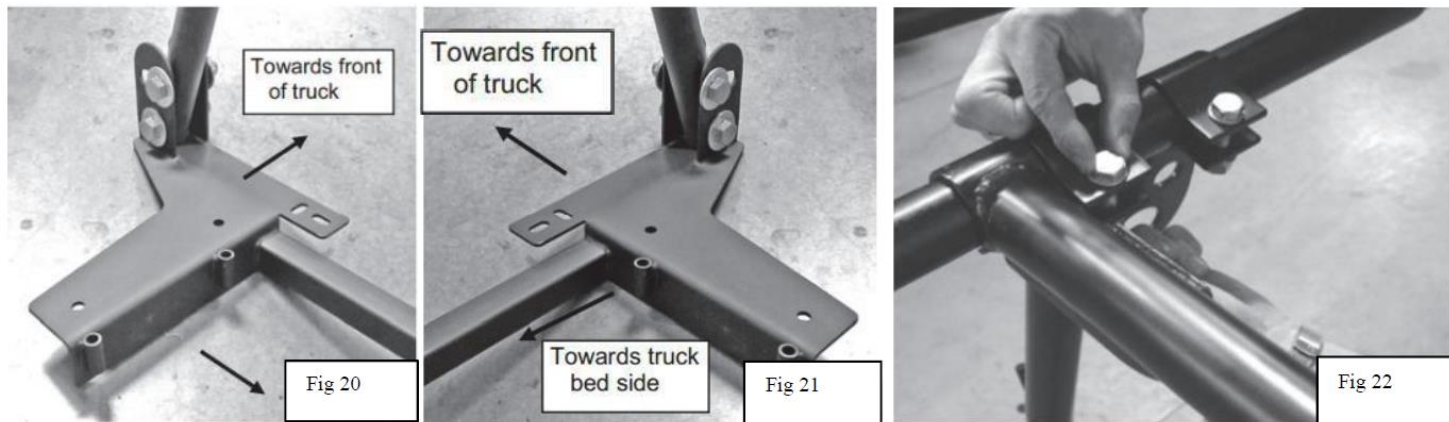


- Using the mounting foot and bulkhead bar pre-assembled in STEP 1. Install the front driver's side mounting foot to the bottom of the front driver's side upright. Bolt the upright to the mounting foot using the 2 #18 x 100 mm bolts, with flat washers, spring washers, and locknuts. (Fig 20)

Repeat step 3) for the front passenger's side mounting foot. (Fig 21)

- Install 2 #12 x 45 mm bolts with flat washers spring washer and locknuts into the top clamp portion of the front upright (Fig 22). Repeat for the other side.

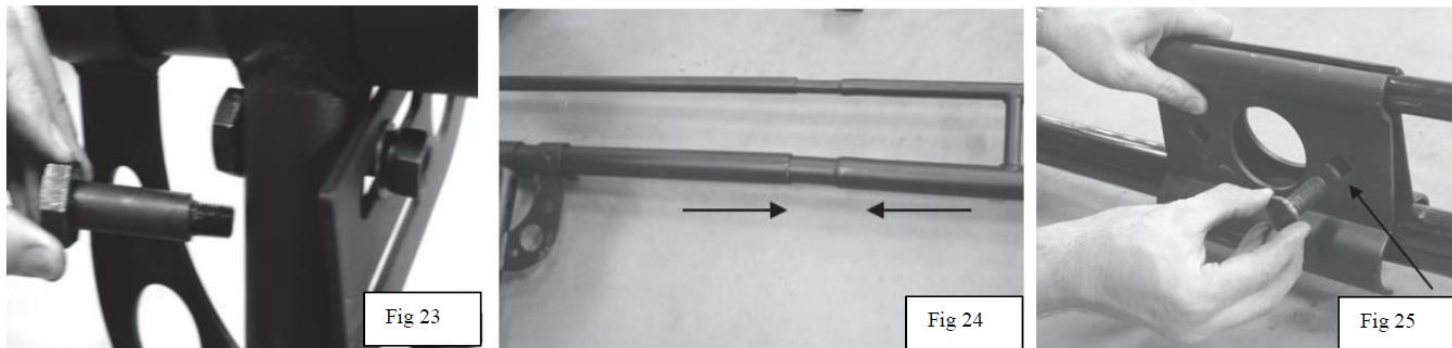
Do not tighten nuts!



- Install 2 #16 x 50 mm shoulder bolts through the rear upright (install between upright gusset and leg) and through the crossbar gusset slots. Attach using flat washers, spring washers, and locknuts. (Fig 23)

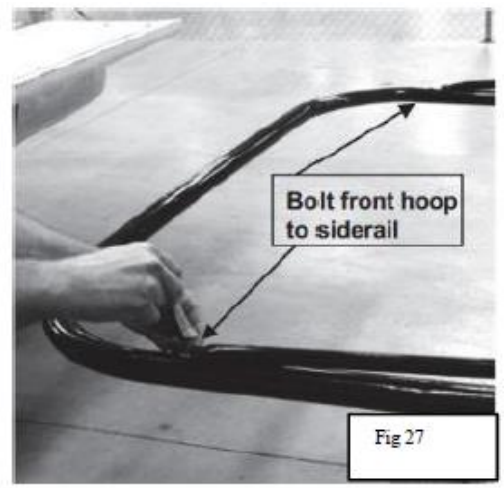
**Repeat for the other side.
Do not tighten nuts!**

- Slide the front and rear side rail assemblies together. (Fig 24)
Note: It may be necessary to tap the parts together using a rubber mallet.
- The side rail assembly clamps are installed in pairs. One side has square holes, the other side has round holes. Place the clamp with the square hole facing the outside of the rack. Place clamp with the round holes facing the inside of the rack. Center the clamps over the joint. Bolt the clamps together using 2 #16 x 40 mm carriage bolts with flat washers, spring washers, and locknuts. (Fig 25) Repeat for the other side.

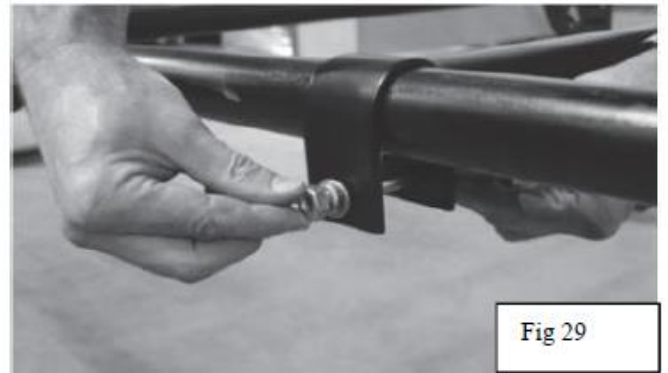


- Slide the front hoop onto both side rail assemblies. Bolt the front hoop to the side rail using the 1 #10 x 65 mm bolt with flat washers, split washers, and locknuts.(Fig 26 & Fig 27)

Note: It may be necessary to tap the parts together using a rubber mallet.



9. The last component is the center crossbar. The center crossbar is adjustable and can be positioned anywhere along the length of the side rail. To attach the center crossbar place the “U” shaped clamp over the lower side rail bar and attach with the #12 x 75mm bolts, 2 flat washers, spring washer, and locknut. (Fig 28 & Fig 29)



STEP 4: INSTALLATION

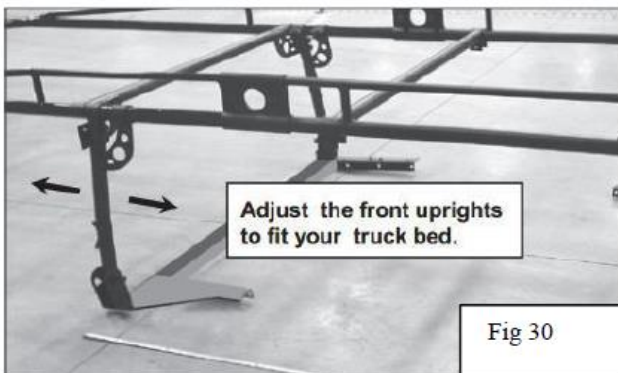
Before lifting the rack onto the truck bed you will need to size the rack.

Measure the length of your vehicle truck bed with the tailgate closed. Subtract 4 inches from the measurement. This is the approximate spacing of the uprights. Measure between the center of the uprights and move the front uprights backward or forwards as needed. (Fig 30)

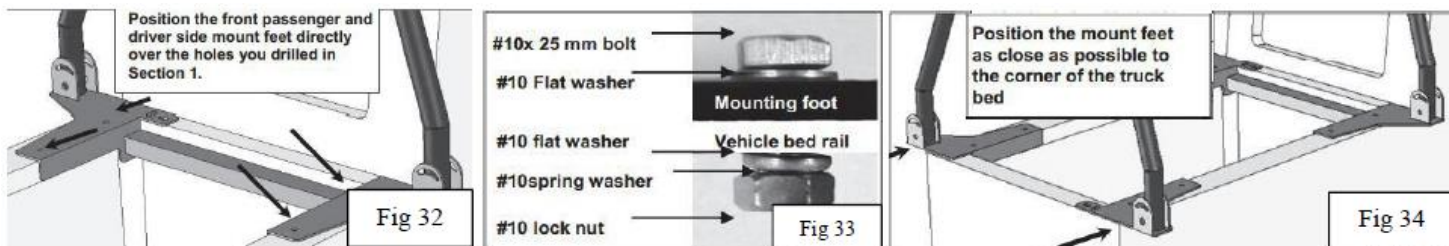
REMEMBER - DO NOT TIGHTEN ANY BOLTS AT THIS TIME

Your Rack should now be fully assembled and approximately sized for your vehicle. The next step in the installation process will require the help of 1 or 2 assistants to lift the Rack into position.

1. Lift the Rack onto the bed rails of the pickup. (Fig 31)



- Set the front driver and passenger mounting feet back on the truck directly over the mounting holes drilled into the truck bedrail in STEP 1. (Fig 32)
Note: Apply a small amount of rust inhibitor (not included) to the metal surface before attaching the mounting feet to the bed rail.
- With the holes in the mounting feet aligned with the holes in the truck bedrail attach the mounting foot to the truck bed rail with the 2 #10 x 25mm bolts, flat washers, spring washer, and lock nut. (Fig 33)
- Position the rear mounting feet as close as possible to the corner of the bed rail.



Note: You can slide the rack back towards the rear of the truck to get the feet correctly positioned. (Fig 34)

- When you are satisfied with the spacing of the uprights on the bed rails, proceed to STEP 5: Final Installation.

STEP 5: FINAL INSTALLATION

- Stand on the outside of the truck bed. Pull the rear driver's side mounting foot towards you until the lip of the mounting foot sits firmly against the edge of the truck bed. Mark the two holes on the top of the mounting foot using a felt tip marker or other suitable pens. (Fig 35)

Repeat for the passenger side mounting foot

Note: Before drilling your vehicle's bed rail check to see if you have a clear hole from the top of the bed rail to the underside. You will need a minimum of 2 bolts to attach each mounting foot to the vehicle. If you do not have 2 clear holes, realign the spacing of the uprights on the bed rails until you do.

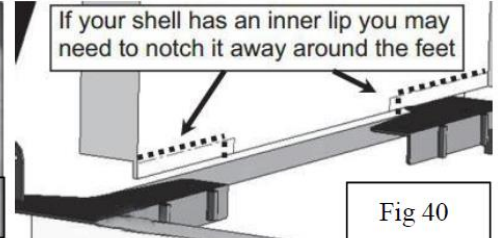
- Using a 5/16" drill bit drill the mounting holes in the bed rails (Fig 36). Apply a small amount of rust inhibitor (not included) to the metal surface before attaching the mounting feet to the bed rail.
- Attach the mounting feet to the truck using the 2 #10 x 25mm bolts, flat washers, spring washers, and locknut. (Fig 37)



FINAL ALIGNMENT

Once the rack has been securely attached to the vehicle bed it can be aligned and the bolts tightened in place.

1. Proceed to the front of the vehicle and note the horizontal alignment of the front hoop in relation to the horizontal surface of the truck cab roof (Fig 38). Have an assistant push or pull the rack until the two are parallel.
2. When you are satisfied that the rack is properly aligned proceed to tighten the mounting foot to the upright bolt. (Fig 39)
3. When the 8 bolts (2 per foot) have been tightened, recheck the alignment and adjust if necessary.
4. Proceed to tighten all the bolts on the rack.
5. Determine if there is an inner lip along the bottom of your camper shell. You may need to trim or notch this ridge to avoid interference with the mounting feet or the bulkhead bar. (Fig 40)



Once all modifications to the shell are complete apply adhesive foam tape (not supplied) along the bulkhead, on the mounting footplate, and along the top of the bedrail. Attach the camper shell to your truck using your existing hardware.



INSTALLATION COMPLETE

Warranty Terms:

3 Year Limited Warranty:

TrailFX and Keystone Automotive Operations Inc. make no guarantees or warranties for products not manufactured by Keystone Automotive Operations Inc. Such products are covered solely under any applicable warranty of the manufacturer. It is always recommended that the operating instructions and warranty instructions provided by the manufacturer are followed.

Keystone Automotive Operations Inc. warrants its products to be free from manufacturing and material defects to the original purchaser for the length of the warranty stated above from the date of retail purchase. If any products are found to have a manufacturing or material defect, the product will be replaced or repaired at the option of TrailFX and Keystone Automotive Operations Inc. with proof of purchase by the original purchaser. The original purchaser shall pay all transportation and shipping costs associated with the return of the defective product and the defective product shall become the property of Keystone Automotive Operations Inc.

The Warranty applies to Keystone Automotive Operations Inc. products used for individual and Recreational purposes. Commercial usage of the Keystone Automotive Operations Inc. products limits the warranty to 90-days from the date of purchase.

The Warranty applies only to Keystone Automotive Operations Inc. products that are found to be defective in manufacturing or material. This warranty does not apply to normal wear and tear of the finish placed on Keystone Automotive Operations Inc. products.

TrailFX and Keystone Automotive Operations Inc. are not responsible for any labor costs incurred for the removal or replacement of the defective product.

TrailFX and Keystone Automotive Operations Inc. are not responsible for the repair or replacement of any product under the limited warranty where the product was improperly installed, misapplied, altered, abused, neglected, overloaded, misused, or damaged as a result of an accident, including any use of the product not in accordance with all product operating and safety instructions.

Without limiting the generality of the foregoing, TrailFX and Keystone Automotive Operations Inc. shall under no circumstances be liable for any incidental or consequential loss or damage whatsoever arising out of, or in any way relating to any such breach of warranty or claimed defect in, or non-performance of the products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you.

This limited warranty gives you specific legal rights, and you may also have other rights that vary from state to state.