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**Installation Instructions**  
JL Defender Rack Mounting  
**Part# 45454JL**

**NOTE:** Carefully read entire instructions thoroughly before attempting to install this part. Photos are for illustration purposes and actual product may vary. Install remains the same

Defender Roof Racks are rated for loads of no more than 150lb evenly distributed. When carrying a spare tire, the tire should not exceed 33" diameter.



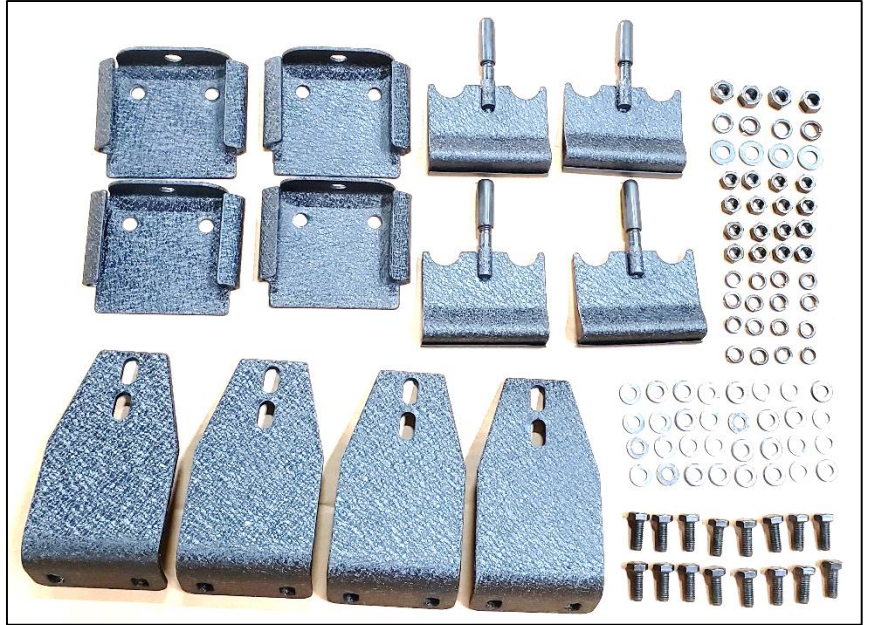
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Smittybilt, 400 W. Artesia Blvd Compton, CA 90220



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Qty.	Description
16	M8-1.25x20mm hex head bolt
32	M8 flat washer
16	M8 lock washer
16	M8-1.25 hex nut
4	Plastic cap
4	Plastic strip
4	M10-1.5 hex nut
4	M10 flat washer
4	M10 lock washer
4	DS31-4 L-bracket
4	HDS Clamp bracket
4	HDS Clamp



**Step 1:** Attach the L-bracket to the clamp bracket using M8 hardware. Position L-bracket in the highest setting and tighten hardware. Fig 1.



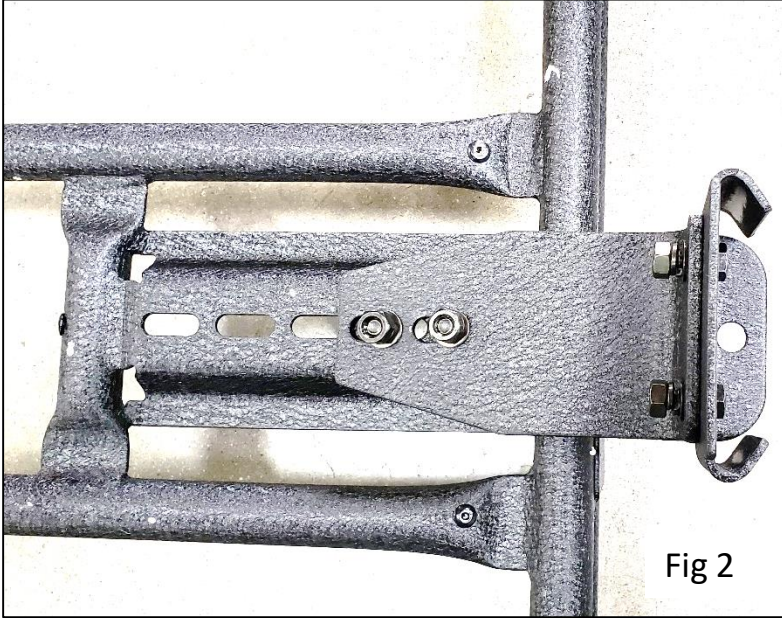
Fig 1

**Step 2:** Attach bracket assembly on to the basket. Front brackets will mount on to the two most outward holes in the basket, while the rear assembly will mount to the second and third inward holes. Use M8 hardware to attach the assembly to the rack, leave hardware loose so you can fine tune bracket assembly once the rack is placed on the roof. Fig 2-4.



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Bottom side of rack with assembly bolted in place loosely.

Fig 2



Front assembly mounts to the two most outward holes, slot # 1 and 2. Passenger side shown

Fig 3



Rear assembly mounts to the slots # 2 and 3. Passenger side shown.

Fig 4



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**Note:** If installing lights, do so before the rack is installed on top of the vehicle. Snug down lights but do not fully tightened until rack install is finalized and lights have been aimed to your liking.

You may use DS8082 light bar tabs to mount smaller light bars, or you may use D8045 to mount up to two 50". See page 6 for optional accessory and accessory mounts.

**Step 3:** Carefully set rack onto hardtop. The clamp bracket should sit inside of the rain gutters. To install the clamp, carefully lift up slightly on basket and slide the clamp into the clamp bracket. Then install M10 hardware, only thread nut on enough so it stays in position. Do one side at a time until all 4 clamps are installed. Fig 5 -7.



Fig 5



Fig 6

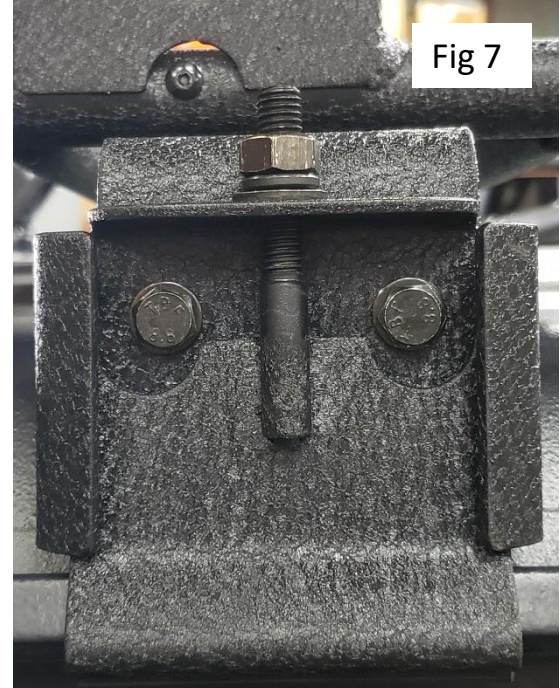


Fig 7

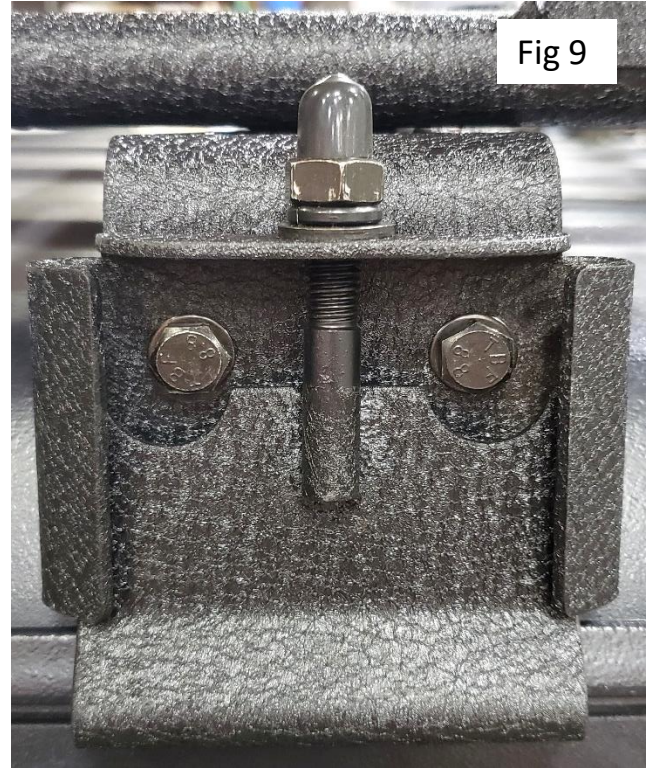
**Step 4:** Carefully align rack, once rack is aligned, tighten M10 nuts, then tighten the M8 hardware that secures bracket assembly to the rack. It helps to use the roof lines to ensure the rack is centered and squared up properly. You may also loosen the M8 hardware from L-bracket to clamp to ensure rack sits level as there maybe a slight variance in the hardtop.



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**Step 5:** Trim plastic caps, then install on exposed M10 thread. It is advised to use some black RTV silicon sealer to prevent plastic caps from coming off. Fig 8&9.



**Periodically check all hardware for proper torque. The use of a penetrating grade thread locker can be applied after all hardware has settled.**

Customize your rack with other quality Smittybilt Defender accessories. ( Axe/Shovel Mount, Jack Mount, Netting)





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# Installation Instructions

## JL Defender Rack Mounting

### Part# 4545JL



#### A ROOF RACK LIGHT CAGE

- Made from same heavy duty steel as Smittybilt Defender Racks
- Provides protection for four of your lights that have a diameter of up to nine inches (lights not included)

#### B CARGO NET

- Keep your gear safe and in place
- Nets will attach to almost any roof rack, truck bed and most trailers
- Stretchy style cord so it will always conform to your load
- Available in two sizes

#### C ACCESSORY MOUNTS

- Heavy duty steel mounting brackets provide secure fastening of axe, shovel or trail jack to your Smittybilt Defender Rack
- Mounts and hardware included
- Brackets can accept a standard padlock for security (padlock and trail jack not included)
- Mount only - accessories sold separately

#### D SPARE TIRE MOUNT

- Attaches securely to Smittybilt Defender Rack
- Allows storage of spare tire up to 33" in diameter
- Adapter is adjustable for varying wheel widths

ROOF RACK LIGHT CAGE	
DESCRIPTION	PART#
Fits 4' wide Smittybilt Defender Rack	40002
Fits 4.5' wide Smittybilt Defender Rack	45002
Fits 5' wide Smittybilt Defender Rack	50002

CARGO NET	
DESCRIPTION	PART #
Large - 48" x 48" un-stretched 80" x 80" stretched	DN11101
Small - 48" x 94" un-stretched 80" x 157" stretched	DN11201

ACCESSORY MOUNTS	
DESCRIPTION	PART #
Axe & Shovel Mount w/Adapter Brackets	D8138
Trail Jack Mount w/ Adapter Brackets	D8076
Axe & Shovel Brackets	D8005
Trail Jack Mounts	D7031
Gas Can Mount	D8007

SPACE TIRE MOUNT	
BOLT PATTERN	PART #
5 x 4-1/2"	D8545
5 x 5-1/2"	D8555
6 x 5-1/2"	D8655
8 x 6-1/2"	D8865
8 on 170mm	D8875

#### E LED LIGHT BAR MOUNTING KIT

- Dual level mounting system for Smittybilt Defender Racks allows you to mount LED light bars up to width of your rack
- Adjustable for all sizes of light bars
- Kit includes 1" crossbars, side brackets and four CNC-machined light bar tabs
- No drilling required. Lights not included
- Light Tabs sold separately D8082

LED LIGHT BAR MOUNTS	
DESCRIPTION	PART#
4' Defender Rack LED Light Bar Mount Kit	D8084
4.5' Defender Rack LED Light Bar Mount Kit	D8045
5' Defender Rack LED Light Bar Mount Kit	D8085
Light Bar Tabs only (pair) fits 1" tubes	D8082

#### F BRACKETS FOR 50" LED LIGHT BARS

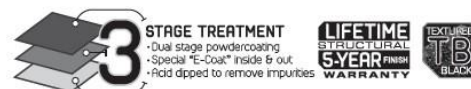
- No drilling required, all hardware included
- Works with 4' racks only

LIGHT BRACKETS	
DESCRIPTION	PART#
Brackets only for 4' rack (pair)	D8083

#### G CROSSBAR BRACKET KIT

- CNC-machined steel
- Fits all Defender by Smittybilt racks - easy install
- Can be used to attach Yakima or Thule-type accessories
- Textured black finish
- Includes four brackets

CROSSBAR BRACKET KIT	
DESCRIPTION	PART#
Crossbar Bracket Kit	D8081





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**Limited Warranties**

Smittybilt's products are covered under the following limited 1 year warranties only. Note that the duration of the limited warranty differs according to the material and finish of the product purchased. Subject to the 1 year duration and conditions of the limited warranty stated below, Smittybilt warrants to the original retail purchaser that its products are free from defects in material and workmanship. All other warranties and representations express or implied, are hereby disclaimed, including fitness for merchantability and buyer's intended use or purpose. All parts are sold "AS IS" except for the limited warranties granted herein. Buyer assumes all risks as to the selection, suitability and performance of all goods and products selected. This limited warranty does not cover damage or impairment in any part due to misuse, improper installation, accident or contact with on-road or off-road hazards, product modification, improper or inadequate cleaning and/or maintenance. Smittybilt is not responsible for items damaged during shipping. This warranty is not transferable from the original buyer. For the original Buyer to be eligible for the limited warranty coverage, the Buyer must provide proof of purchase. Smittybilt strongly recommends returning the warranty registration card.

Customer's remedy hereunder shall be limited only to repair or replacement (at Smittybilt's option) of any defective part(s) returned to Smittybilt at customer's expense. The determination of whether or not a returned part is defective or subject to coverage under the limited warranties stated herein shall be made at Smittybilt's sole discretion.

To assure product quality, Smittybilt reserves the right to change product design, material, specification and finishes without prior notice to customers. This limited warranty gives you specific legal rights and you may also have other rights, which may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply as to you. Also, some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Smittybilt reserves the right to discontinue product lines and substitute products, or provide other remedies than those listed in this limited warranty for those discontinued products.

**Warning**

Rollover and other types of vehicle accidents may result in serious injury or death to you, your passengers and others sharing the road. Smittybilt accessories are decorative and are not intended to reduce or avoid injury or damage in the event of an accident. The weight and location of Smittybilt accessories may affect your vehicles' handling, stability and performance, creating an increased risk of accident or rollover. Before installing any accessory, check state laws and assure that the accessory will not obscure any lights or interfere with proper operation on your vehicle's safety equipment. Consult your owner's manual and the Smittybilt instructions, or additional safety information. Smittybilt products, nor the warnings contained herein, are not a substitute for your safe driving. Don't drink and drive, always use seat belts and don't drive faster than conditions permit.