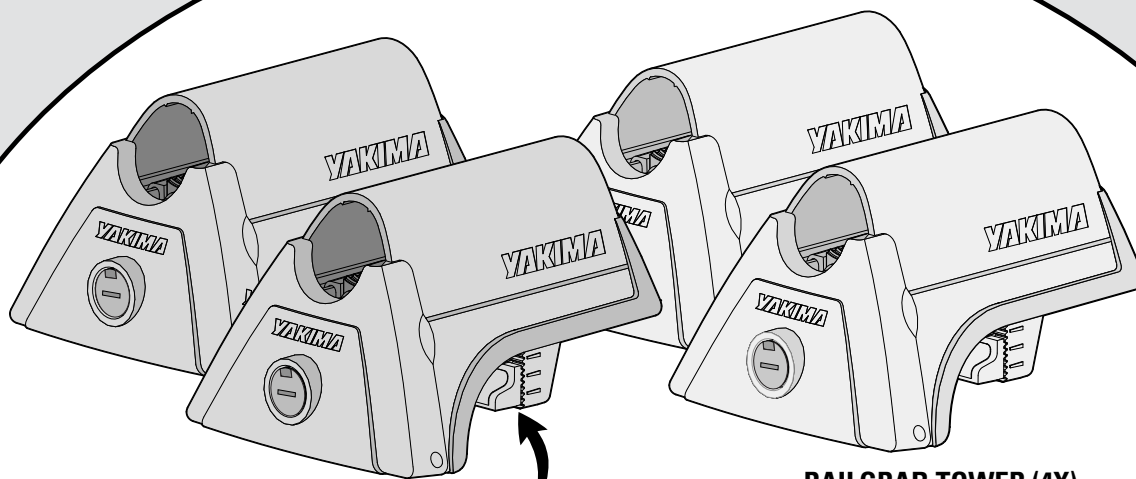


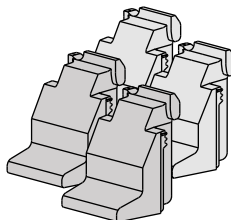
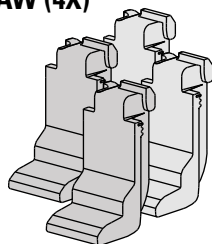
YAKIMA RailGrab 2&4



RAILGRAB TOWER (4X)

**SMALL CLAW
(PRE-INSTALLED) (4X)**

LARGE CLAW (4X)



MEDIUM CLAW (4X)



END CAP (4X)

**NOTE: RAILGRAB IS SOLD
IN 2 PACKS AND 4 PACKS.**

If you have purchased a 2 pack RailGrab the quantities listed above will be two of each component rather than four of each component.



IMPORTANT WARNING

IT IS CRITICAL THAT ALL YAKIMA RACKS AND ACCESSORIES BE PROPERLY AND SECURELY ATTACHED TO YOUR VEHICLE. IMPROPER ATTACHMENT COULD RESULT IN AN AUTOMOBILE ACCIDENT, AND COULD CAUSE SERIOUS BODILY INJURY OR DEATH TO YOU OR TO OTHERS. YOU ARE RESPONSIBLE FOR SECURING THE RACKS AND ACCESSORIES TO YOUR CAR, CHECKING THE ATTACHMENTS PRIOR TO USE, AND PERIODICALLY INSPECTING THE PRODUCTS FOR ADJUSTMENT, WEAR, AND DAMAGE. THEREFORE, YOU MUST READ AND UNDERSTAND ALL OF THE INSTRUCTIONS AND CAUTIONS SUPPLIED WITH YOUR YAKIMA PRODUCT PRIOR TO INSTALLATION OR USE. IF YOU DO NOT UNDERSTAND ALL OF THE INSTRUCTIONS AND CAUTIONS, OR IF YOU HAVE NO MECHANICAL EXPERIENCE AND ARE NOT THOROUGHLY FAMILIAR WITH THE INSTALLATION PROCEDURES, YOU SHOULD HAVE THE PRODUCT INSTALLED BY A PROFESSIONAL INSTALLER.

Overview

Claw Set Up

Install first set of towers

Determine crossbar spread

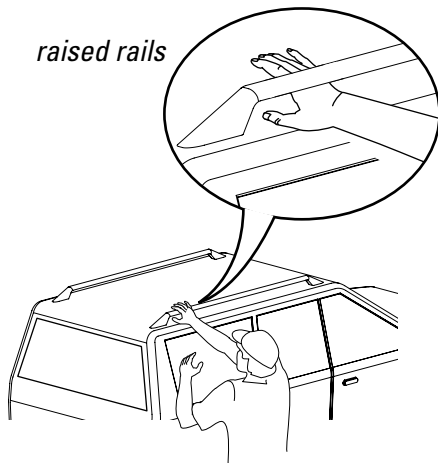
Install second set of towers



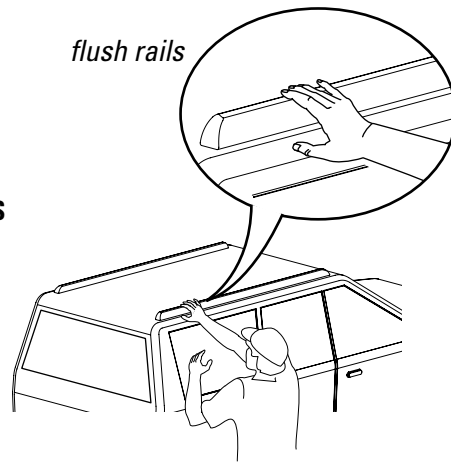
READ THROUGH THIS ENTIRE INSTRUCTION BEFORE BEGINNING INSTALLATION!
This product is the base for everything you'll do with your rack, we want to help you get this right.

Familiarize yourself with these concepts and terms, and installation will be a snap. Throughout this document a time line will show you where you're at in the process. *Notice the time line at the top of the next page and throughout these instructions.*

There are two basic types of factory rails, Raised Rails, and Flush Rails.

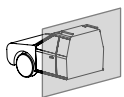


Raised rails are raised up off of the vehicle's roof.

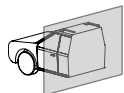
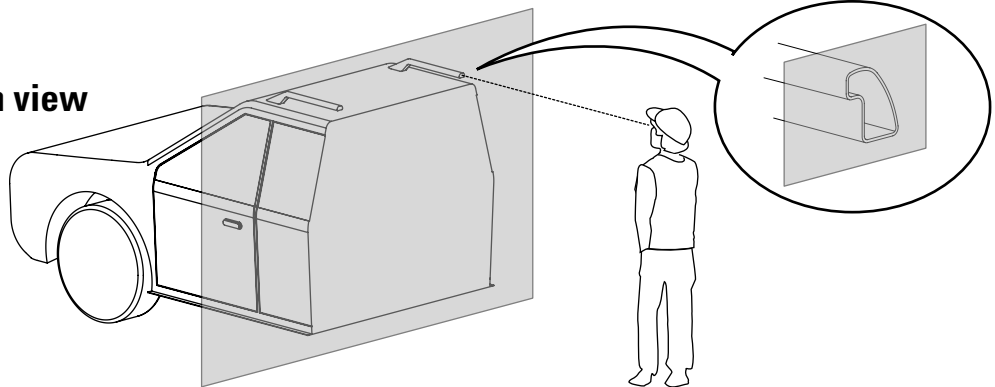


Flush rails are flush with the vehicle's roof.

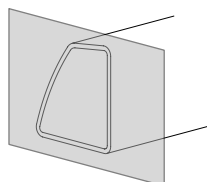
FACTORY RAILS



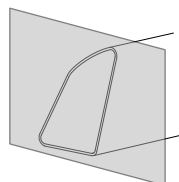
= **cross-section view**



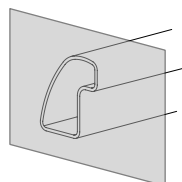
Factory rails come in many different shapes. Some rails have a notch in them. Other rails have a slot in them.



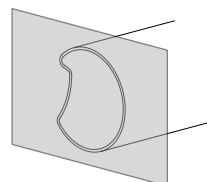
cross-section



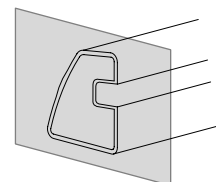
cross-section



cross-section with a notch



cross-section with a notch



cross-section with a slot

Overview

Claw Set Up

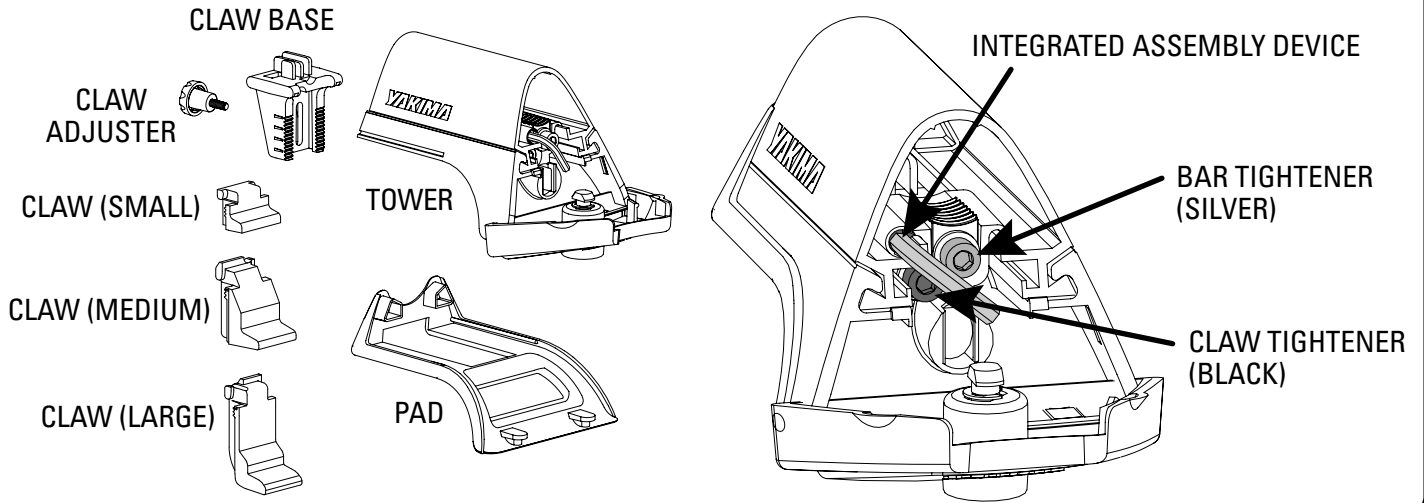
Install first set of towers

Determine crossbar spread

Install second set of towers



ANATOMY OF THE RAILGRAB

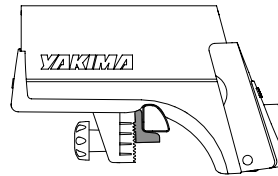
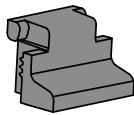


RAILGRAB CLAWS

For most vehicles the pre-installed **small claw** will be the correct choice. However some vehicles will require the **medium claw** and for oversized factory rails the **large claw** must be used.

SMALL CLAW

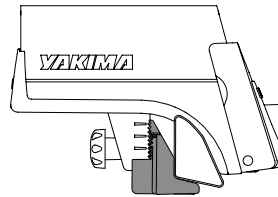
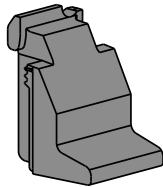
For factory rail heights less than 1-1/16" (27 mm)*.



Small claw installed.

MEDIUM CLAW

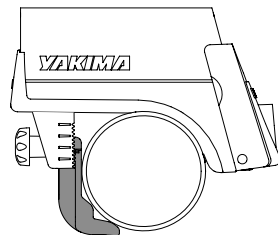
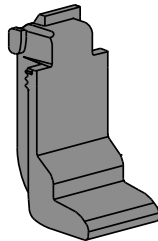
For factory rail heights between 1-1/16" (27 mm) to 1 3/4" (44.5 mm)*.



Medium claw installed.

LARGE CLAW

For larger or odd shaped rails*.

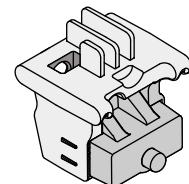


Large claw installed.

* Some rail shapes may require a different claw size than what is noted here.

SPECIALTY CLAWS

Some vehicles require specialty claws designed specifically to fit them.



Overview

Claw Set Up

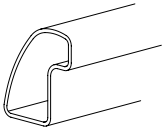

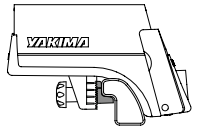
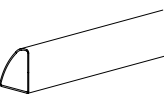

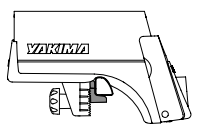
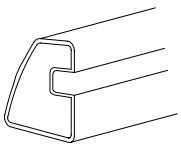

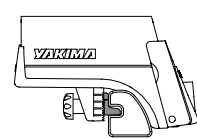
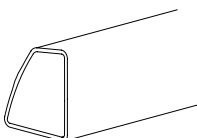
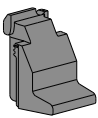
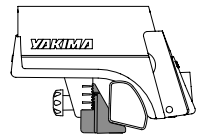
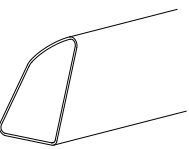
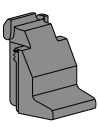
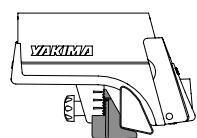
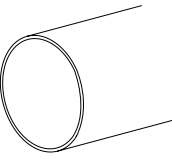
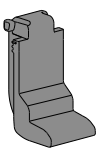
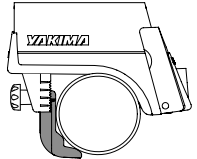
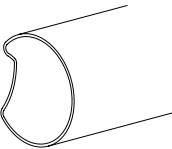
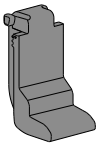

Install first set of towers

Determine crossbar spread

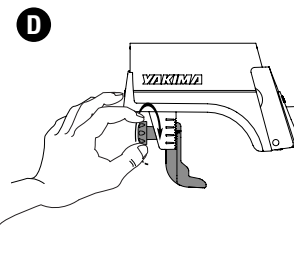
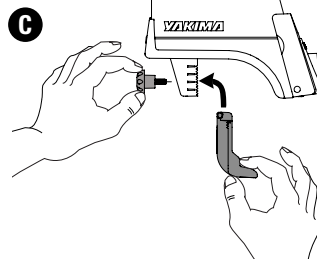
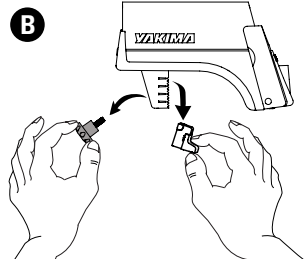
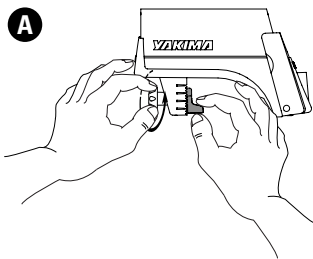
Install second set of towers



Choose your claw based on your rail type.

A LOOK AT RAIL	B CHOOSE CLAW	TOWER FIT EXAMPLE
		
		
		
		
		
		
		

Switching claws.



Overview

Claw Set Up

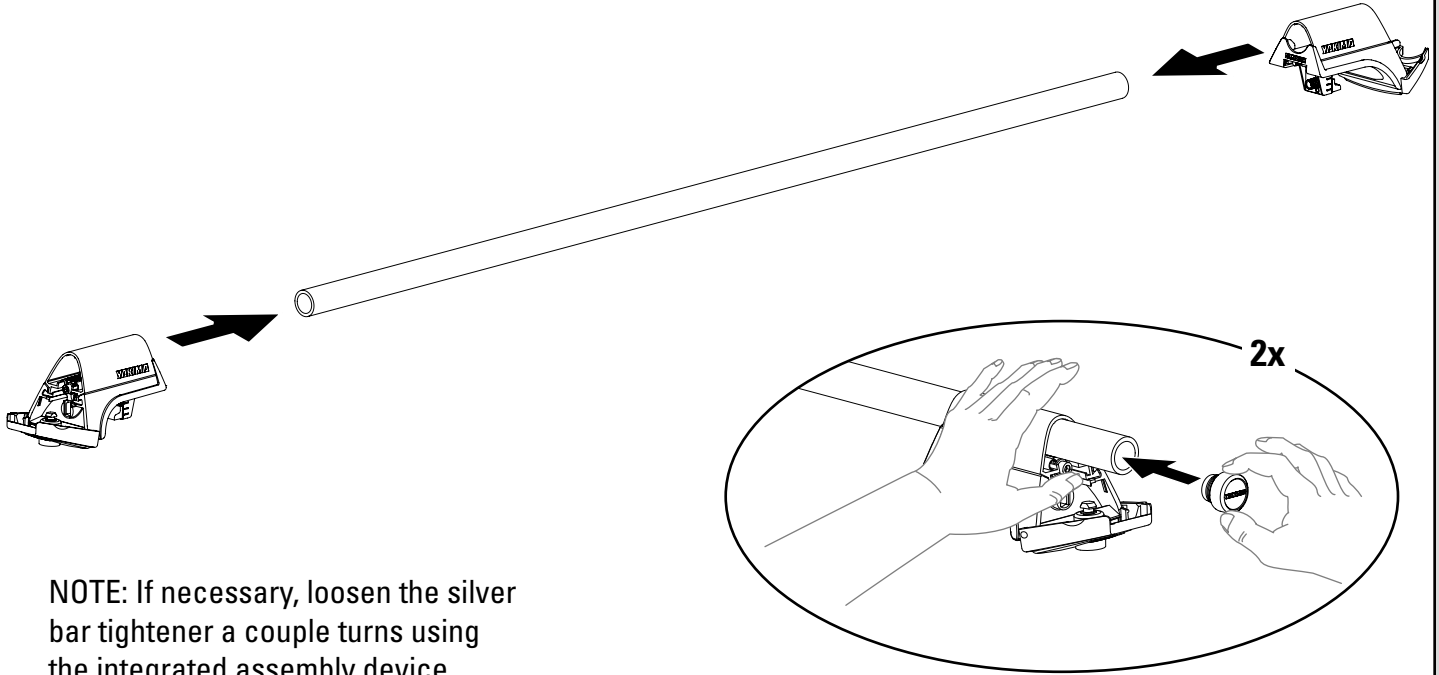
Install first
set of towers

Determine
crossbar spread

Install second set
of towers

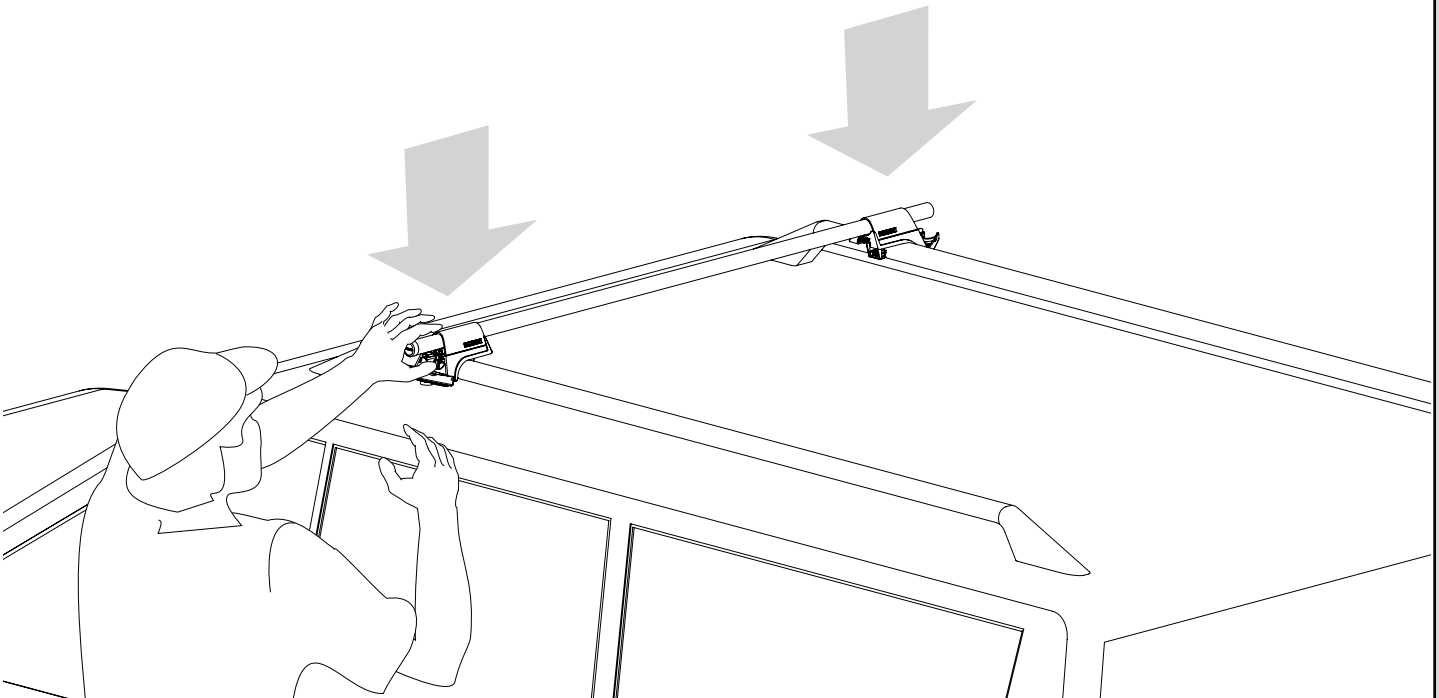


1 Put two towers onto a crossbar, and install end caps.



NOTE: If necessary, loosen the silver bar tightener a couple turns using the integrated assembly device.

2 Put towers and bar onto factory rail.



Overview

Claw Set Up

Install first set of towers

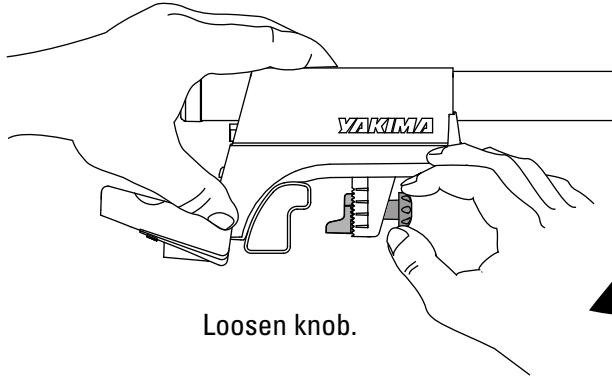
Determine crossbar spread

Install second set of towers

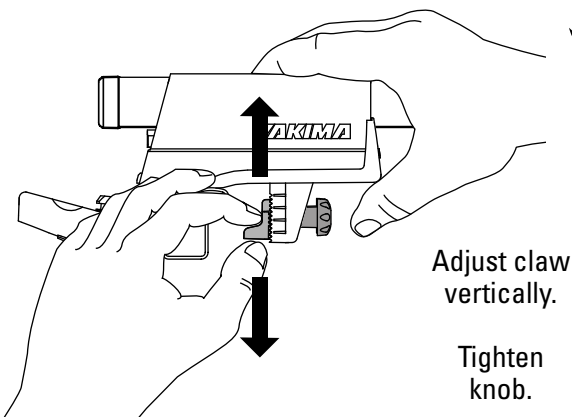


The goal is to move the claw vertically and horizontally to fit with your factory rail. These adjustments must be made in tandem. You must establish three solid points of contact.

3 Adjust the claw vertically.



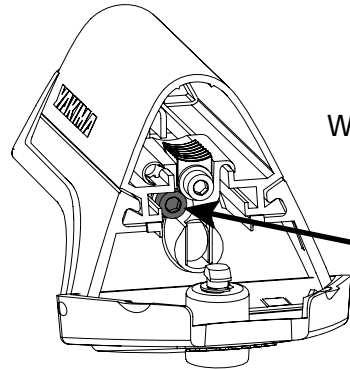
Loosen knob.



Adjust claw vertically.

Tighten knob.

4 Adjust the claw horizontally.

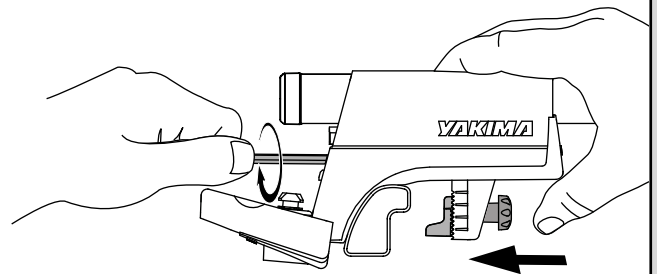


With the RailGrab covers open...

Locate the black claw tightener.

NOTE: It may be necessary to alternate between step 3 and step 4 until a solid connection is achieved.

Complete claw adjustment by securing the black claw tightener with the integrated assembly device.

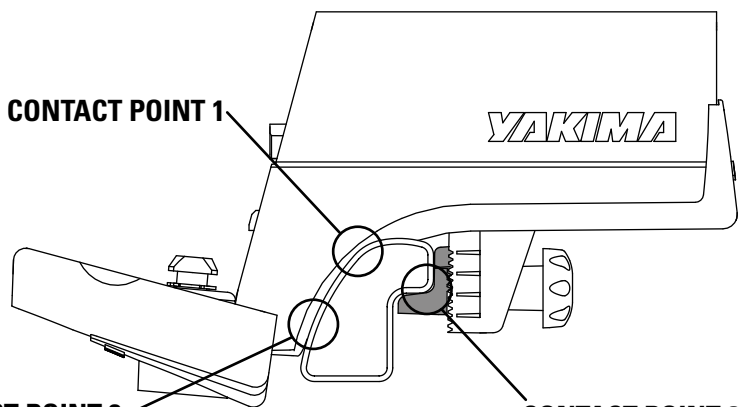


5 Check your work.



Did you establish three solid contact points?

CONTACT POINT 1



CONTACT POINT 2

CONTACT POINT 3

Note: rounded factory racks may only require two points of contact.

Overview

Claw Set Up

Install first set of towers

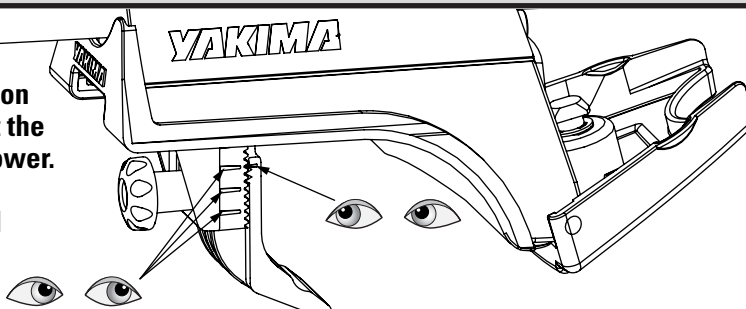
Determine crossbar spread

Install second set of towers



Note the vertical position of the claw, and repeat the process for the other tower.

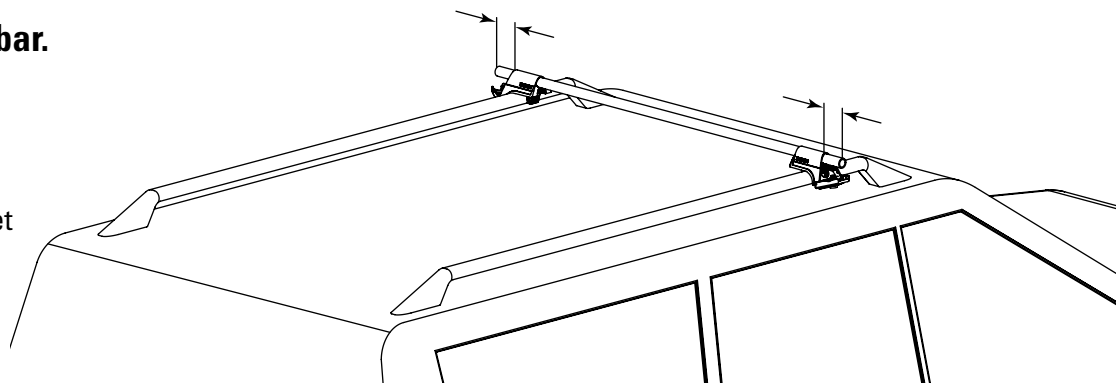
Check both towers and readjust as necessary.



TIP: Look at the markings on the claw base relative to the markings on the claw, and use this measurement to help in adjusting the other tower.

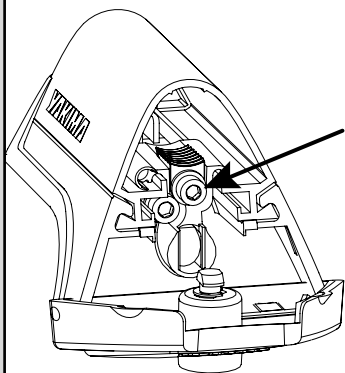
6 Center round bar.

Center the bar so that the ends of the crossbar protruding from the towers are set to an equal distance.

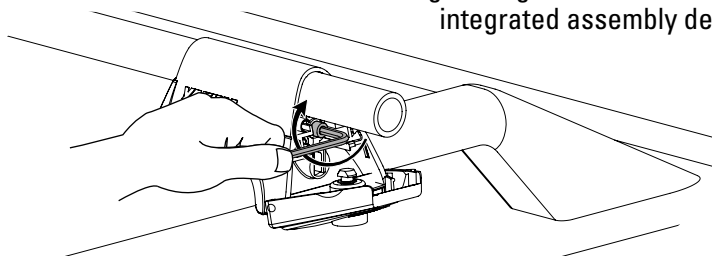


7 Complete assembly of tower/bar system.

Assemble bar to tower by tightening silver bar screw using integrated assembly device.



Locate the silver bar tightener.

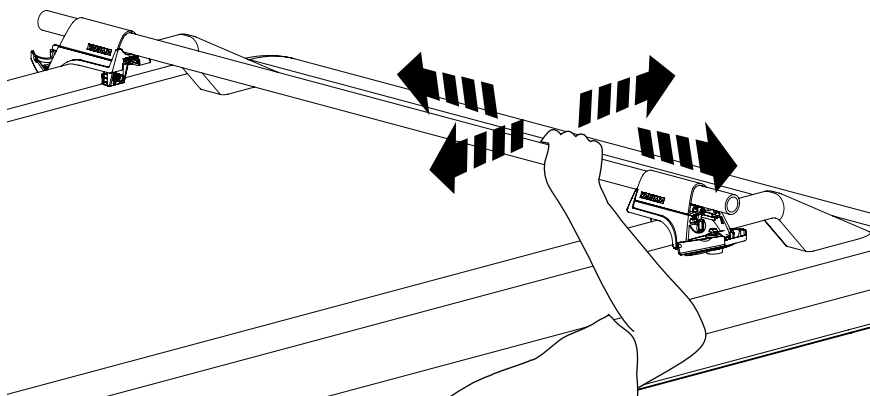


! Be sure to tighten *both* towers!

8 Check your work.

CHECK THE INSTALLATION!
Grip the crossbar inboard to towers; push and pull using only arm strength.

The vehicle should rock back and forth, but the RailGrabs should not budge.



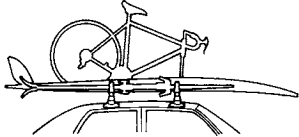
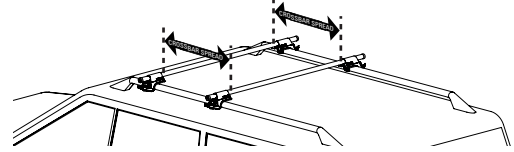
Overview

Claw Set Up

Install first
set of towersDetermine
crossbar spreadInstall second set
of towers

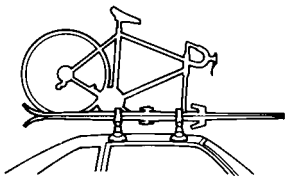
9 Determine your crossbar spread. Install second set of RailGrab towers and crossbar.

The accessories you will carry with your RailGrab will determine your minimum crossbar spread (the distance between the crossbars). Refer to the table below to find the correct minimum crossbar spread.



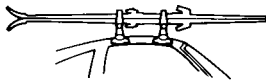
24" (61cm) Spread (minimum)

Skis, snow boards, bikes (including tandems), sail boards, and kayaks



16" (41cm) Spread (minimum)

Skis, snow boards and 2 bikes (excluding tandems)



12" (30cm) Spread (minimum)

Skis, snow boards and basketcase

QUICK REFERENCE: Maximum and Minimum Crossbar Spreads

crossbar spread range...	can carry...	on these accessories...
12" (30cm)-24" (61cm)	Skis (under 170 cm)	Any Ski Mount
12" (30cm)-36" (91cm)	Skis (over 170 cm)	Any Ski Mount
12" (30cm)-36" (91cm)	Snow boards	Any Ski Mount
16"* (41cm)-38" (97cm)	Bicycles 1-2	Raptor / Raptor Aero
16"* (41cm)-42" (107cm)	Bicycles 1-2	ForkLift / SteelHead / CopperHead / Viper
16"* (41cm)-46" (117cm)	Bicycles 1-2	SprocketRocket / HighRoller
16"* (41cm)-48" (122cm)	Bicycles 1-2	King Cobra / FrontLoader
18" (46cm)-38" (97cm)	Bicycles, more than 2	Raptor / Raptor Aero
18" (46cm)-42" (107cm)	Bicycles, more than 2	ForkLift / SteelHead / CopperHead / Viper
18" (46cm)-46" (117cm)	Bicycles, more than 2	SprocketRocket / HighRoller
18" (46cm)-48" (122cm)	Bicycles, more than 2	King Cobra / FrontLoader
32" (81 cm)-50" (127cm)	Bicycles	Boa
24" (61cm)-36" (91cm)	Tandem Bicycles	SideWinder
18" (46cm) or more	Surf/Sail boards (6-8')	Crossbar Pads / StrapThang
24" (61cm) or more	Surf/Sail boards (9-10')	Crossbar Pads / StrapThang
30" (76cm) or more	Surf/Sail boards (over 10')	Crossbar Pads / StrapThang
24" (61cm) or more	Kayaks	Mako Saddles / HullyRollers / LandShark / HullRaiser
24" (61cm) or more	Kayaks	HullRaiser Aero / BigStack/BowDown / MakoAero
30" (76cm) or more	Kayaks	Kayak Stacker / Crossbar Pads
24" (61cm) or more	Kayaks/Canoes	ShowBoat Load Assist
24" (61cm) or more	Canoes (under 14')	Gunwale Brackets
30" (76cm) or more	Canoes (over 14')	Gunwale Brackets
12" (30cm)-41" (104cm)	Cargo, Gear	BasketCase
24" (61cm)-36" (91cm)	Cargo, Gear	RocketBox 15s / PlatinumPro 16s / BlackTop Pro 16s (Round Bars)
24" (61cm)-36" (91cm)	Cargo, Gear	SkyBox 16s / SkyBox Pro 16s (Round Bars)
24" (61cm)-42" (107cm)	Cargo, Gear	SkyBox 12, 18, 21 / SkyBox Pro 12, 18, 21 (Round Bars)
30" (76cm)-36" (91cm)	Cargo, Gear	RocketBox 16 / RocketBox 11 (Round Bars)
30" (76cm)-42" (107cm)	Cargo, Gear	Platinum Pro 12, 18, 21 / BlackTop Pro 12, 18, 21 (Round Bars)
24" (61cm)-32" (81cm)	Bikes, Skis, Boats, Cargo, Gear	LoadWarrior
30" (76cm)-50" (127cm)	Bikes, Skis, Boats, Cargo, Gear	LoadWarrior with Extension
30" (76cm)-38" (97cm)	Bikes, Skis, Boats, Cargo, Gear	MegaWarrior
36" (91cm)-60" (152cm)	Bikes, Skis, Boats, Cargo, Gear	MegaWarrior with Extension

*More than 2 bicycles create enough leverage on the Wheel Tray to make the longer crossbar spread necessary. For 16" (41cm) spreads, limit bikes to 30 lbs (14kg).

Overview

Claw Set Up

Install first
set of towersDetermine
crossbar spreadInstall second set
of towers

10 Install second set of RailGrab towers and crossbar.

Now simply follow the instructions from the beginning to install your second set of towers. Be sure to read all cautions and warning on the next page. Return integrated assembly device to storage location. Close the covers.

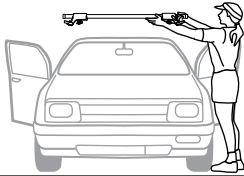
11 Lock the towers.



If you have purchased lock cores (recommended), install them according to your lock core instructions.

REMOVING THE RACKS

1. Mark tower location with marker or tape.
2. Unlock towers and open RailGrab covers.
3. Loosen claws (claw tightener).
4. Lift rack up and off (do not disassemble).

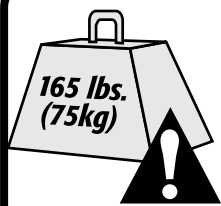


INSTALLING RACKS AGAIN

1. Open covers.
2. Clean rails and place towers at marked positions.
3. Make sure towers are seated properly, then tighten claws (using claw tightener) close covers and lock.

PERFORM SAFETY CHECKS ON ALL TOWERS!

Now enjoy a refreshment... and read these important details about your new rack system.



WEIGHT LIMITS



ANTENNA

Antenna on the roof may need to be removed to prevent interference with the rack or long loads.

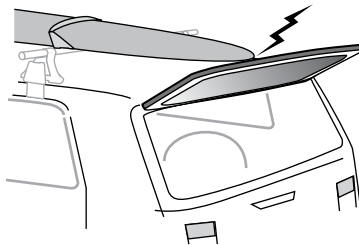
FACTORY LUGGAGE CARRIER

If the vehicle is equipped with a factory luggage carrier, it may interfere with some accessories.

REAR HATCH

Some longer loads may prevent the rear hatch from fully opening.

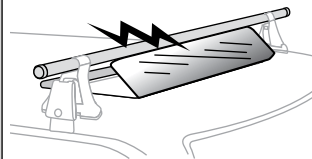
USE CAUTION WHEN OPENING YOUR HATCH.



SUN ROOF

Sunroof may interfere with crossbars or accessories.

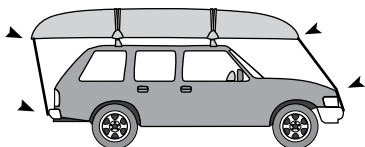
USE CAUTION WHEN OPENING SUNROOF.



WARNING: BE SURE ALL HARDWARE IS SECURED ACCORDING TO INSTRUCTIONS. ATTACHMENT HARDWARE CAN LOOSEN OVER TIME. CHECK BEFORE EACH USE, AND TIGHTEN IF NECESSARY.

TIE DOWN LONG LOADS

Always tie down both ends of long loads to vehicle. Failure to do so can result in property damage, personal injury, or death.



MAINTENANCE

Use non-water soluble lubricant on screws.
Use a soft cloth with water and mild detergent to clean plastic parts.

REMOVE RACKS BEFORE ENTERING AN AUTOMATIC CAR WASH.



This product is covered by YAKIMA's "Love It Till You Leave It" Limited Lifetime Warranty.

KEEP THESE INSTRUCTIONS!