

Preparation

Part Number: PT278-89063

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Bike Rack
2	2	Keys (in Bag)
3	1	DIO Instruction Sheet

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	3	Adaptor Kit: P/N PT278-89061 or P/N PT278-35061 or P/N PT278-35064

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	
Vehicle Protection	Blankets
Special Tools	
None	
Installation Tools	
Screwdriver	Flat Blade(~1")
Screwdriver	Philips #2
Special Chemicals	
None	

General Applicability


Note: Fits on all Toyota **Fixed Roof Racks** together with an Adaptor Kit:
P/N PT278-89061: 4Runner, RAV4, Highlander, Land Cruiser, Matrix, Sequoia, Sienna
P/N PT278-35061: Tacoma
P/N PT278-35064: FJ Cruiser


Recommended Sequence of Application


Item #	Accessory	
1	Adaptors	
2	Bike Rack	


*Mandatory

Legend

 **STOP:** Damage to the vehicle may occur. Do not proceed until process has been complied with.

 **OPERATOR SAFETY:** Use caution to avoid risk of injury.

 **CAUTION:** A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

 **TOOLS & EQUIPMENT:** Used in Figures calls out the specific tools and equipment recommended for this process.

Procedure

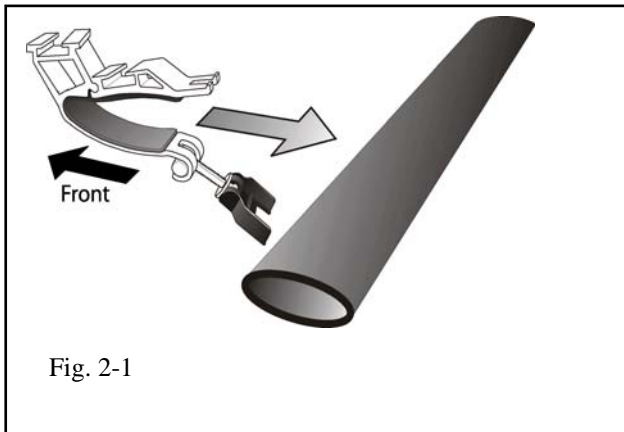


Fig. 2-1

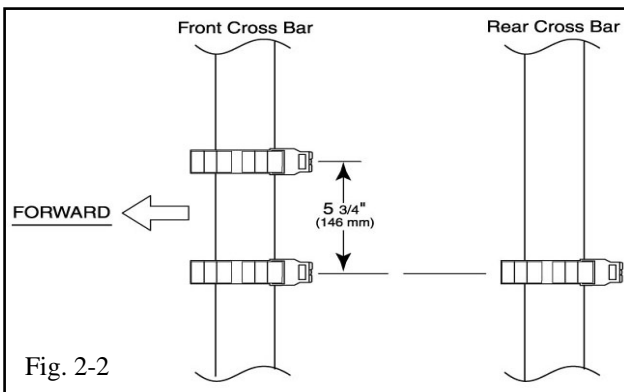


Fig. 2-2

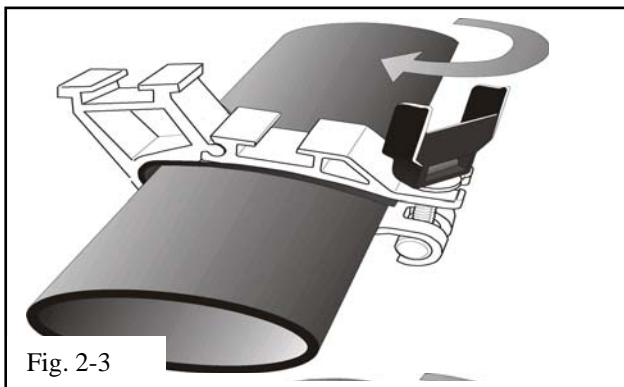


Fig. 2-3

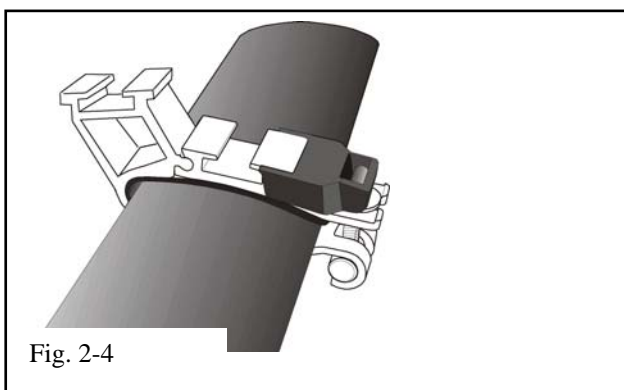



Fig. 2-4


1. Installation Preparation

-  (a) Protect vehicle sides and roof panel with protective blankets.
- (b) Clean the vehicle Roof Rack from dirt and dry.

2. Installation of Adaptors

- (a) Open an Adaptor Assembly and slide it on one the vehicle Roof Rack Cross Bars with the opening facing backwards. (Fig. 2-1)

NOTE: Place two Adaptor Assemblies on the vehicle Roof Rack Front Cross Bar and one on the Rear Cross Bar.

-  (a) Adjust the position of the Adaptor Assemblies so that they are 5.75" (146 mm) apart center to center on the Front Cross Bar. (Fig. 2-2)

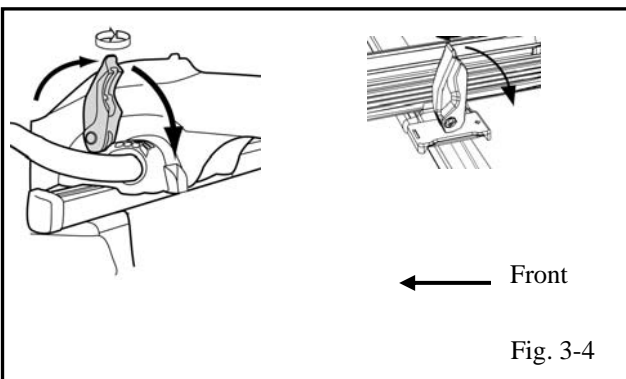
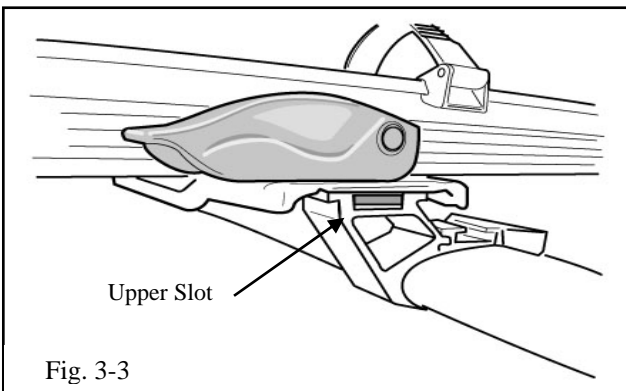
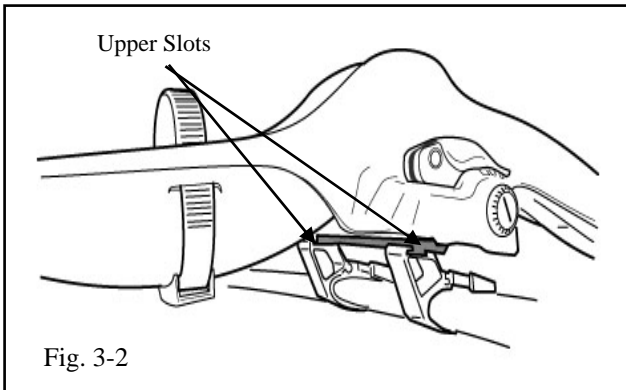
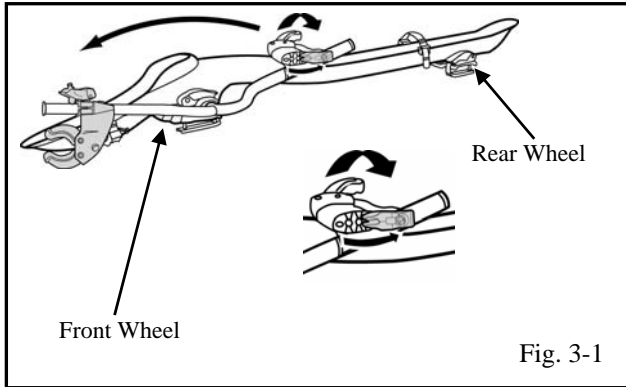
- (1) The Adaptor Assembly on the Rear Cross Bar should be in line with the Adaptor on the Front Cross Bar that is closest to the outside of the vehicle. (Fig. 2-2)

NOTE: When adjusting the position of the Adaptor Assemblies, make sure the rubber gasket remains in place.

- (b) Fasten each Adaptor Assembly by spinning the plastic lever and folding it down. (Figs. 2-3 & 2-4)

- (1) Tighten the lever by hand until it is snug and the Adaptor Assembly will not slide by pushing and pulling by hand.

Procedure



3. Mounting the Bike Rack on the Adaptor Assemblies



- (a) Unlock the lever and move the frame holder to the side and rotate the arm forward (Fig. 3-1).

NOTE: Rotating the arm completely forward unlocks the front lever mechanism.

- (b) Open the three levers on the bike rack and slide the rack into the slot on each adaptor. Note: P/N PT278-89061 has two slots on each of the Adaptor Assemblies:

- (1) The Bike Rack is mounted to the two upper slots of the front Adaptor Assemblies. (Fig. 3-2)
- (2) The Bike Rack is mounted to the upper slot of the rear Adaptor Assembly. (Fig. 3-3)



- (c) Adjust the clamping force by spinning the levers in a vertical position then close the levers. (Fig. 3-4)

NOTE: Arm must point forward almost parallel with the wheel track in-order for both of the two front levers to unlock.

Procedure

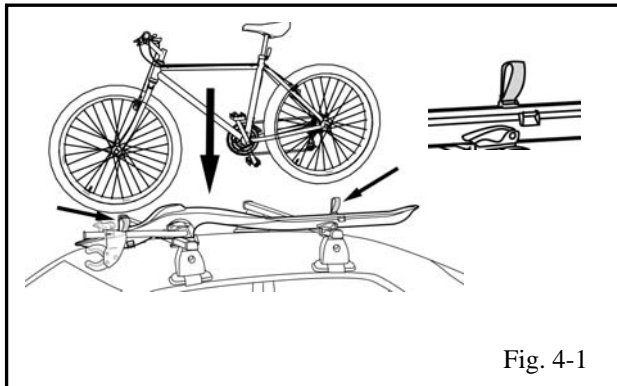


Fig. 4-1

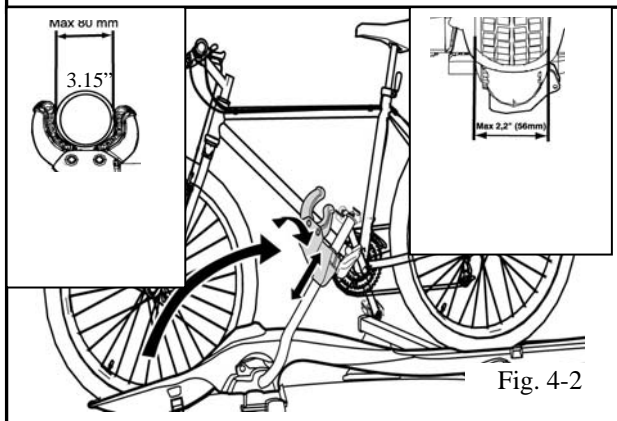


Fig. 4-2

4. Fastening the Bike

(a) Place the bike in the wheel track. To facilitate, unlatch and fold the straps out of the way. (Fig. 4-1)



(b) Rotate the arm towards the bicycle frame. Turn and adjust the frame holder to fit the frame. (Fig. 4-2)



(c) When the frame holder is adjusted to the frame, tighten by folding the lever up in the unlatched position as shown and spin it to set the correct clamping force. (Fig. 4-3)

(1) When the frame is attached firmly, lock the lever

NOTE: Light weight frames may be damaged if too much force is used.

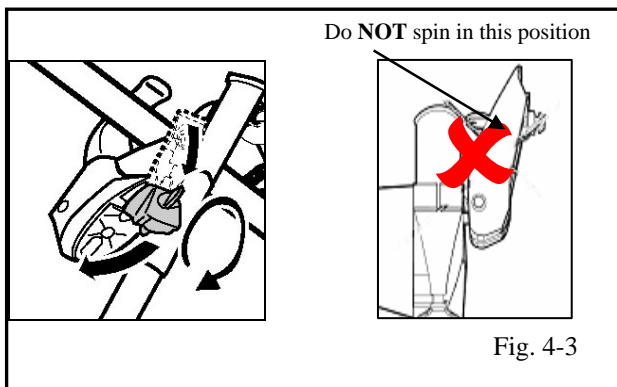
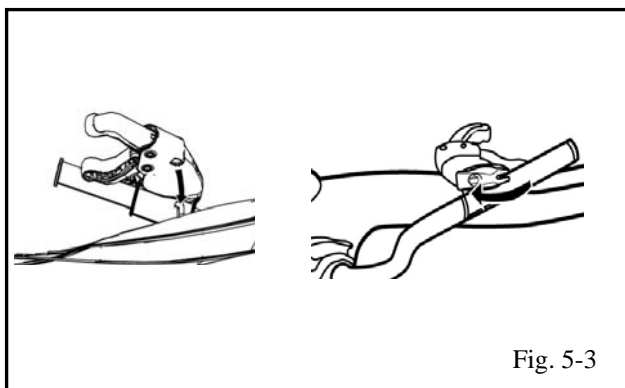
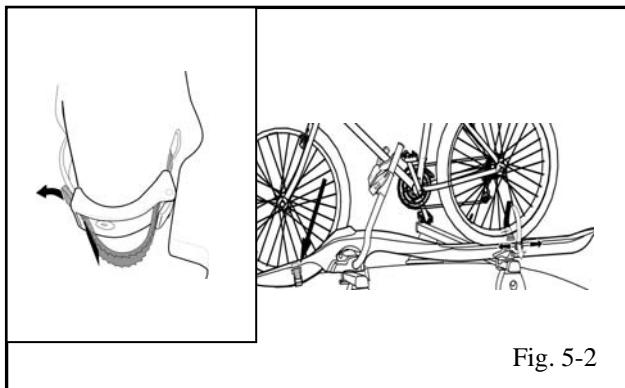
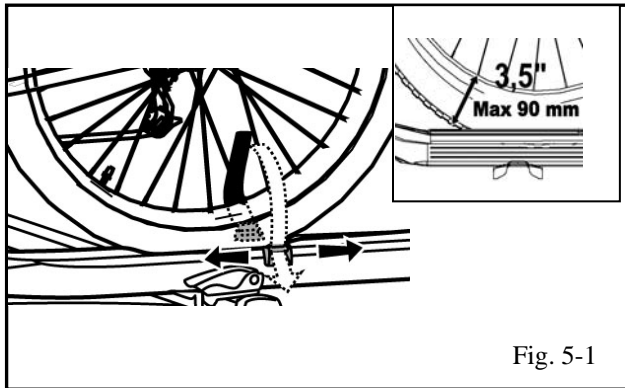



Fig. 4-3

Procedure



5. Fastening the Wheels

- (a) Adjust the position of the rear wheel holder by sliding it, then tighten the strap around the rear wheel. (Fig. 5-1)
-  (b) Tighten the strap on the front wheel, making sure the strap runs round the wheel and through the holder in the profile. Fold the strap into the strap holder underneath to prevent it from hanging down and interfering with the roof. (Fig. 5-2)
- (c) When driving without a bike, lock the frame holder to the parking post. (Fig. 5-3)

Procedure

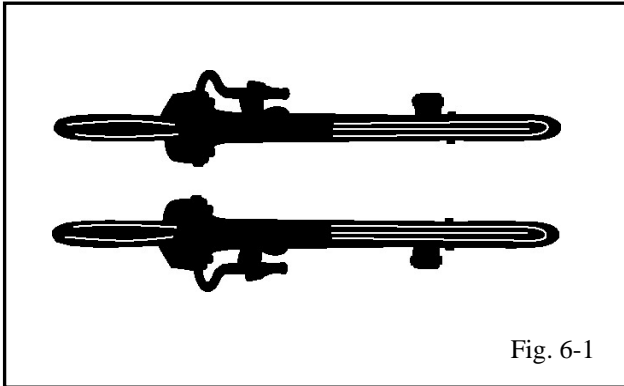


Fig. 6-1

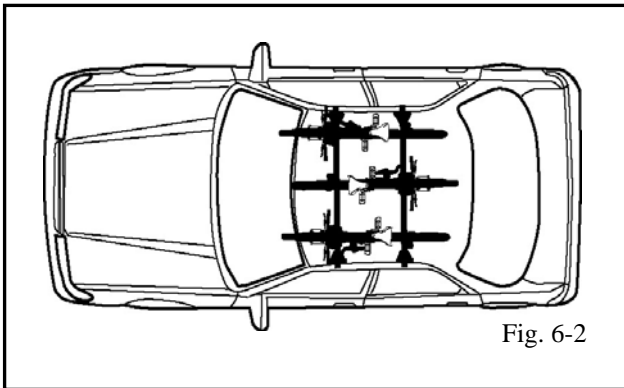


Fig. 6-2

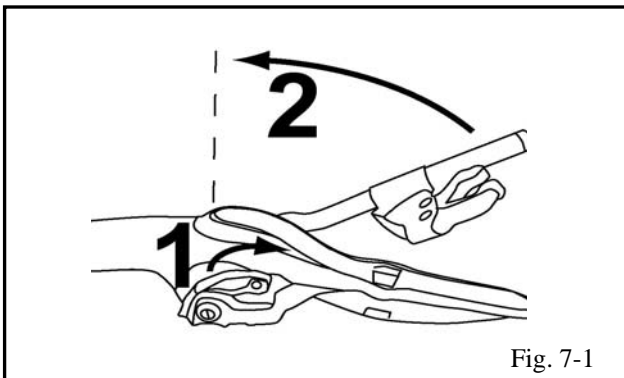


Fig. 7-1

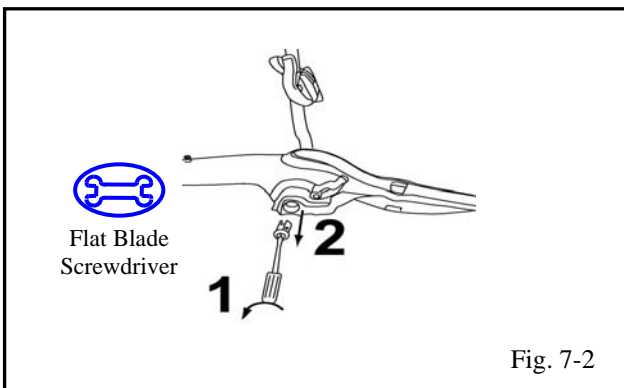



Fig. 7-2

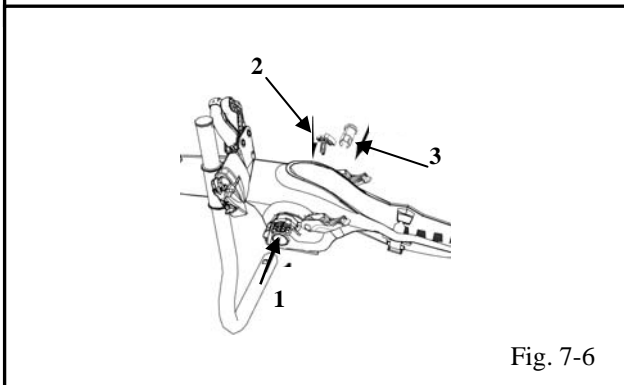
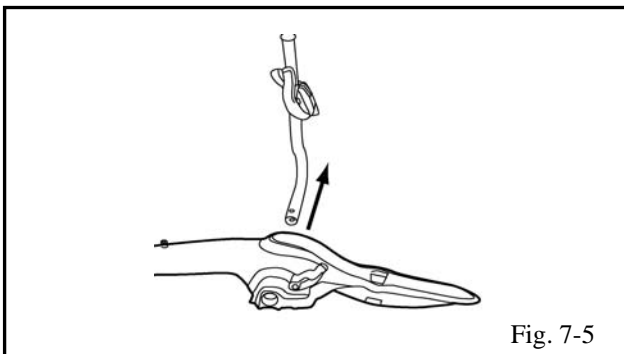
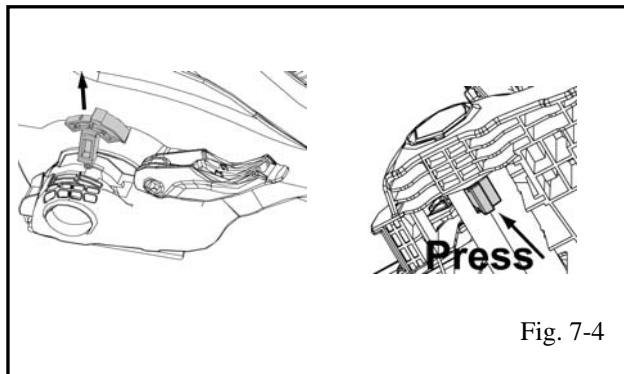
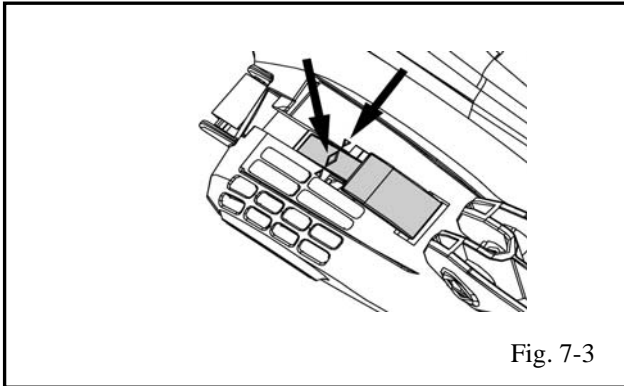
6. Switching Installation Side

- (a) To be able to attach more than two bike racks on the roof, the frame holder tube and the attachments have to switch sides. (Fig. 6-1)
- (b) When more than two bike racks are fitted the bike rack positions alternate. (Fig. 6-2)

7. Switching Side of the Frame Holder Tube

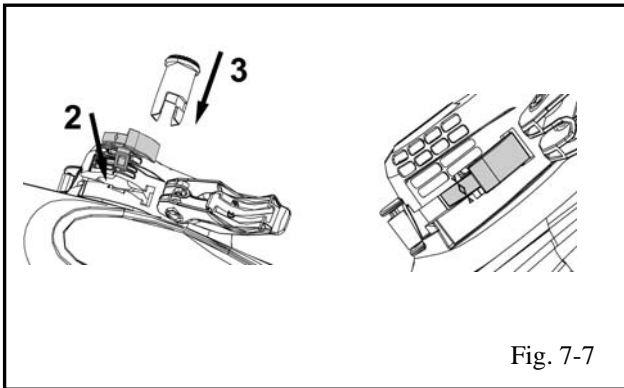
- (a) Open the levers close to the tube and fold the tube up to vertical position. (Fig. 7-1)
-  (b) Unscrew (1/4 turn) and pull out the socket cap.(Fig. 7-2)

Procedure



- (c) Make sure the wedge is in the correct position by lining up the “diamond” marks. (Fig. 7-3)
- (d) Pull up the wedge, press from below and remove. (Fig. 7-4)
- (e) Pull out the tube and insert it from the other side. (Fig. 7-5)
- (f) After inserting the tube (1), re assemble the wedge (2) and the socket cap (3). (Fig. 7-6)

Procedure



(g) The wedge must be assembled correctly. (Fig. 7-7)

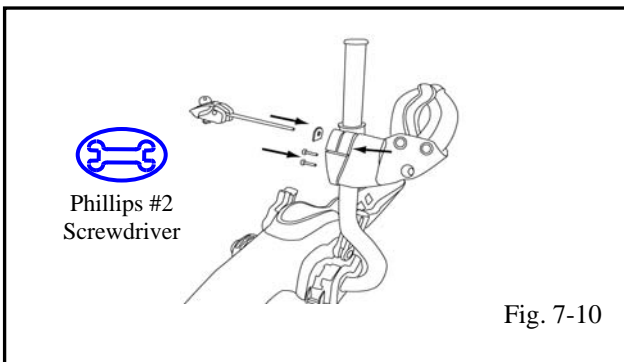
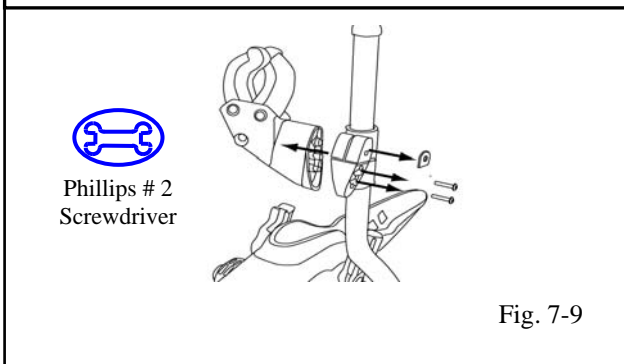
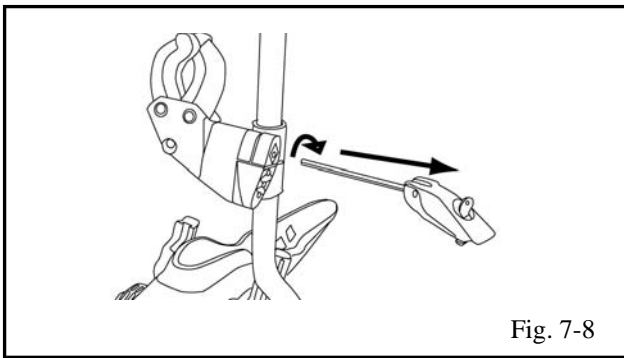
(h) Unscrew the frame clamp lever and pull it out. (Fig. 7-8)



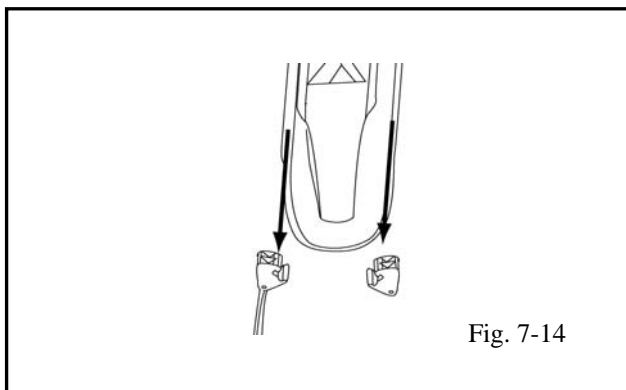
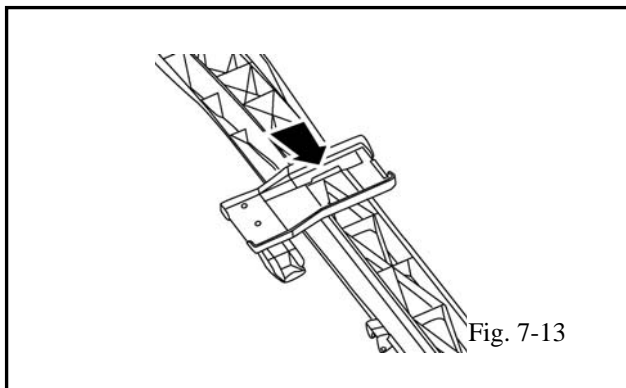
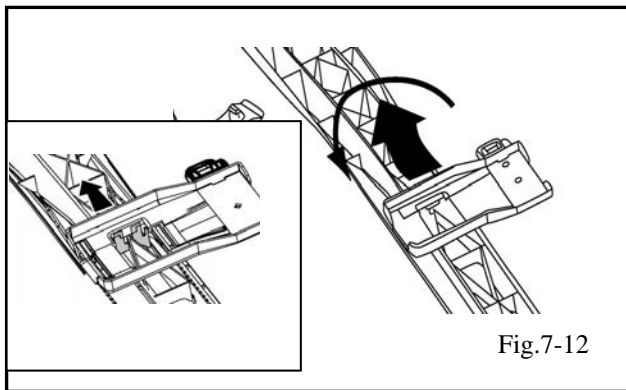
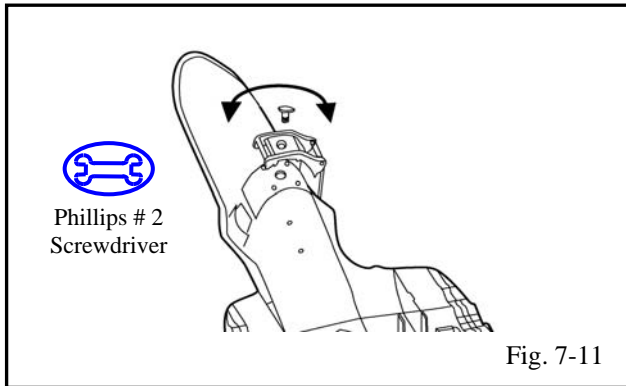
(i) Loosen and remove the washer, the screws and the claw. (Fig. 7-9)




(j) Re-assemble the claw on the other side and reinstall washer, screws and lever. (Fig. 7-10)



Procedure



(k) Check to make sure that everything is tightened properly.

 (l) Remove Phillips screw and turn the front wheel holder (strap) 180 degrees. (Fig. 7-11)

(m) Remove the rear attachment plate by sliding it forward over the pins on the wheel track (this will be stiff) and turn it 180 degrees. (Fig. 7-12)

(n) Re position the attachment plate by sliding it back over the plastic pins in the profile. (Fig. 7-13)

(o) Slide the rear wheel holder strap and clamp backward off the wheel track and switch the sides. (Fig. 7-14)

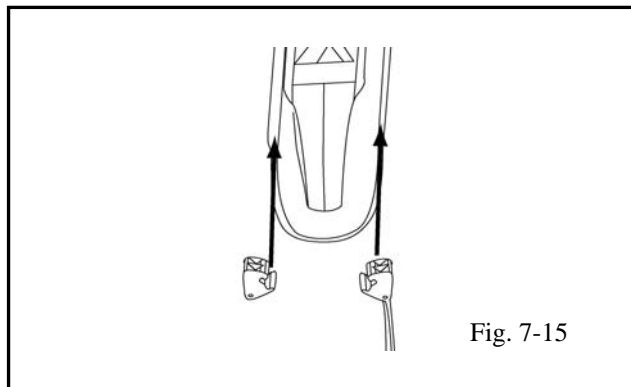


Fig. 7-15

- (p) Slide the rear wheel holder strap and clamp back on the wheel track. (Fig. 7-15)

8. Completing the Installation



- (a) Place keys, and DIO installation instructions in the glove compartment.

TOYOTA 4Runner/Highlander/Land Cruiser 2000- BIKE RACK
Rav4/Matrix/Sequoia/Sienna/Tacoma/FJ Cruiser

Checklist – these points **MUST** be checked to ensure a quality installation.



Check: _____

- Rubber Gaskets are properly in place within the Adaptors.
- Adaptors are securely attached to the vehicle Roof Rack.
- Front levers are closed properly
- The wheel track does not interfere with the vehicle. Front wheel holder strap is not hanging down and interfering with the roof
- The bicycle is firmly attached

Look For: _____

The Rubber Gaskets should be aligned within the metal Adaptors.

Pushing and pulling on the mounted Bike Rack can not move adaptors.

Inner lever is locked by locking mechanism. Both levers aligned against profile.

Look between the roof and Bike Rack.

Make sure that the wheel holders and the frame holder are firmly attached to the bike.