

Thank you for purchasing the INNO product.

Be sure to read this instruction manual thoroughly before using this product.
 Keep this manual in a safe place where anyone using this product can use for reference.
 If you give or lend this product to someone else, make sure that they also keep this manual.
 If any sections of this manual are unclear or difficult to understand, contact our service center listed in this manual.

Following legends are used throughout this manual for your attention.

- Warning** Failing to observe these warnings may lead to accidents that may cause death or serious injury.
- Caution** Failing to observe these cautions may lead to injuries or damage to the product, vehicle, and the load.
- Note** These notes explain points you should know about when using this product.

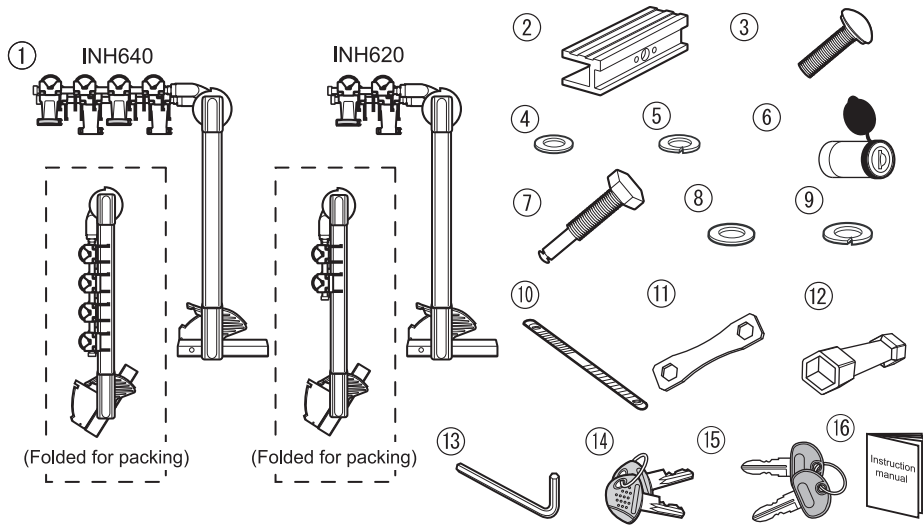
INH640 (Maximum load :4 bikes) is used as a product assembly illustration in this manual.

Warning

- Make sure to attach the 2-inch (1-1/4 inch) hitch receiver on your vehicle before installation.
- Confirm the stability and strength of the hitch receiver onto which this product is to be installed, and attach it securely.
- Do not use with a hitch extender.
- If you suspect that the hitch receiver does not have enough strength discontinue the installation.
- Maximum load of INH640 is 4 bikes, or 132 lbs (60kg).
- Maximum load of INH620 is 2 bikes, or 66 lbs (30kg).
- Make sure that the total weight of loaded bikes do not exceed the maximum loading capacity of the vehicle.
- Maximum attachment capacity of the Class 1 hitch is up to 2 bikes.
- Do not install this product on trailers and other towing vehicles.
- Do not load tandems or recumbents.
- Do not load any other objects except bikes.
- Do not load bikes in bags or covered with tarpaulins.
- Do not alter this product.
- Check all bolts and nuts periodically to see they are securely tightened.
- Check all straps periodically and if any of them is torn or worn, replace it.
- Failing to attach straps securely may lead to loss of, or damage to bikes.
- Make sure to use the wire lock at all times while bikes are loaded.
- Cable lock is not antitheft tool for bikes.
- Please follow the local and state laws.
- Obey all posted speed limits, and reduce driving speed in strong winds. (Do not exceed 75 mph)
- Do not speed, make jack-rabbit starts or unnecessary sudden turns of the steering wheel, or slam on the brakes.
- If you made a sudden turn of the steering wheel or slammed on the brakes, be sure to check the load and that the rack is firmly mounted.
- This product is not for off-road use.
- If you continuously drive the car at high speeds, drive at designated speeds due to inclement weather, or drive on rough roads, always confirm the load and rack are secure.
- Do not leave the product for a long period of time with bikes still loaded.
- Keep bike tires away from hot exhaust.
- Remove this product if you do not intend to use it for a long period of time.
- Installing this product makes the length of your vehicle longer. Check the length before driving.
- Remove this product before using an automatic car wash.
- Be careful not to damage the vehicle when installing this product to or removing it from the vehicle.
- When an accessory hinders product installation, remove the accessory.

1. Product contents

This product contains the following parts.
 Make sure that you have all the parts listed. If any part is missing, contact our service center listed in this manual.

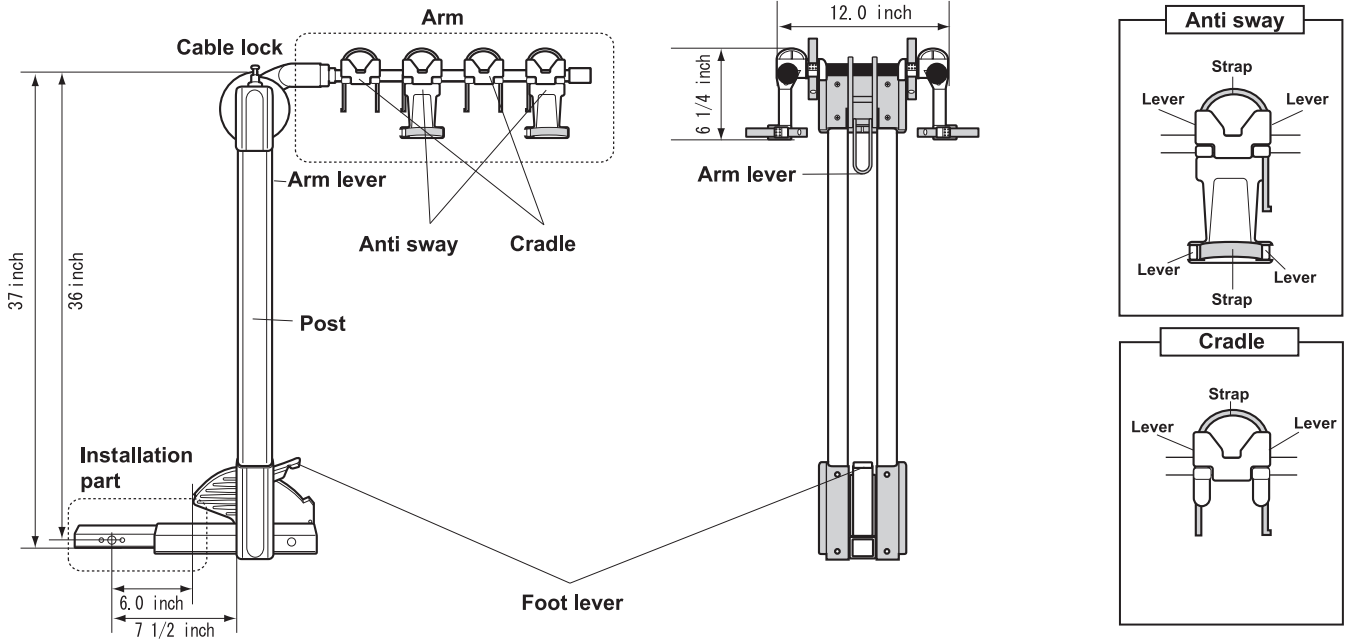


No.	Part name	Quantity	
		INH301	INH302
①	Main product	1	1
②	2 inch Adaptor (Pre-installed)	1	1
③	Bolt (For fixing adaptor; Pre-installed)	2	2
④	Small Flat washer (For fixing adaptor; Pre-installed)	2	2
⑤	Small Spring washer (For fixing adaptor; Pre-installed)	2	2
⑥	Lock cylinder	1	1
⑦	Installation bolts	1	1
⑧	Large Flat washer	1	1
⑨	Large Spring washer	1	1
⑩	Strap	12	6
⑪	Handle	1	1
⑫	Socket	1	1
⑬	Hex wrench	1	1
⑭	Key (For cable lock)	2	2
⑮	Key (For Installation bolt)	2	2
⑯	Instruction manual (This manual)	1	1

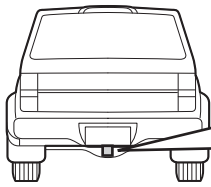
Contact Information

For inquiries about this product, or to order spare parts, contact the service center. However, Car Mate Mfg. Co., Ltd. cannot accept any responsibility for accidents that occur as a result of using this product when it is incorrectly installed, if it has been altered in any way, or accidents occurring due to natural disasters such as typhoons etc.

2. Product parts



3. Loading conditions

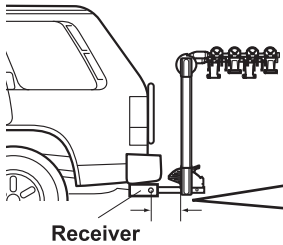


Receiver dimensions

Receiver must have sufficient strength.

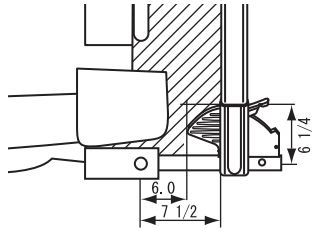
1 1/4 inch
2 inch (With Adaptor)

Make sure there is no bumper in the area where is less than 6.0 inches and no spare tire in the area less than 7 1/2 inch far from receiver.



Possible installation size

No obstacles for installation.



Remove adaptor

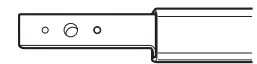
Receiver size
2 inch

Use as it is.



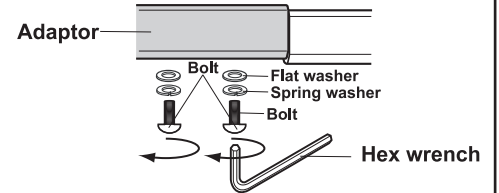
Receiver size
1 1/4 inch

Remove adaptor to use.



Remove 2 bolts by hex wrench first and then 2 inch adaptor will be the next.

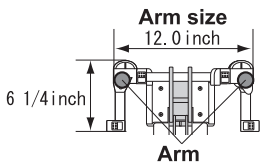
*Installation method will be opposite procedure.



4. Possible carrying bikes

Compatibility

- Bike weight is less than 33lbs
- Frame limitations
 - Must have top tube
 - Must have seat tube
- Frame size
 - Diameter 1/2inch~2-1/4inch
- Left and right arms needs to be settled in frame.

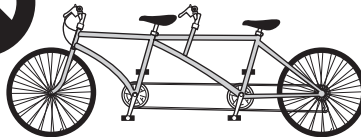


Maximum loading

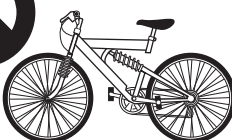
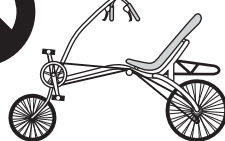
INH640
4 bikes or 132lbs
(*2 bikes or 66lbs for Class1 vehicle.)
INH620
2 bikes or 66lbs



Tandem

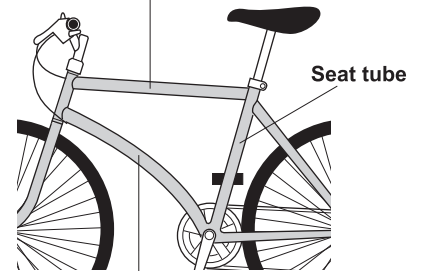


Recumbent



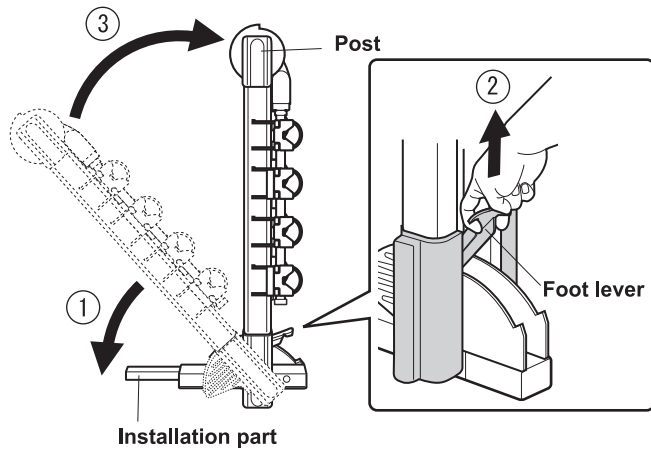
Bike parts

Top tube (need to be more than 13inch)



Down tube

5. Assembly preparation



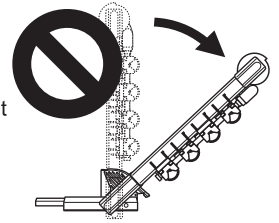
Note

While installation, use gloves for safety purpose.

- ① Pull down the installation part.
- ② Pull out the foot lever while holding down the installation part by foot.
- ③ As holding the installation part by foot, pull up the post at almost right angle until it'll be locked.

Caution

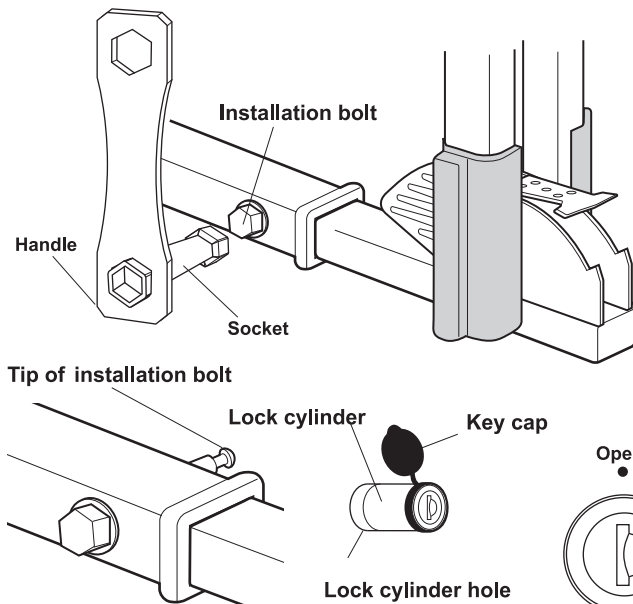
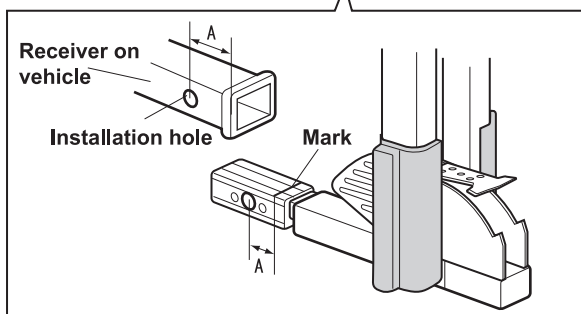
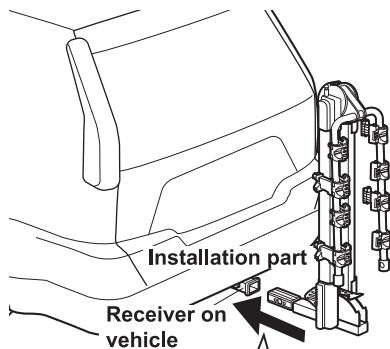
- Be careful not to squeeze your fingers while pulling out the foot lever.
- Please do not pull down more than an right angle. Make sure its lock on the right angle position.



Note

If you don't pull out the foot lever on the center of the right and left post, you might not be able to pull up the post. In that case, make sure the foot lever position again and repeat the same operation.

5. Installation to vehicle



Caution

While installation, make sure applying the parking brake on the vehicle.

- 1 Insert the installation position of the hitch into the receiver on a vehicle. Make fixation hole of the receiver and the installation hole of the hitch align, and then insert the installation bolt with a large spring washer and a large flat washer.

Note

If it's hard to put together installation holes, measure from the receiver installation hole to the edge, and then put a mark on the installation part.

- 2 Using attached wrench, tighten the installation bolts to fixate the product.

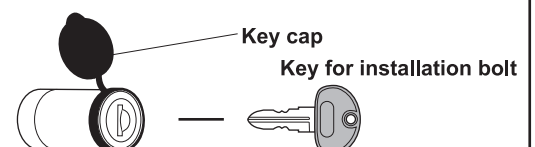
Note

- If you can not tighten the bolts with the attached wrench, use a regular 3/4 wrench instead.
- Pull up the hitch a little and tighten the bolt by hand, and then use the attached wrench to tighten it more. Installation time will be reduced.

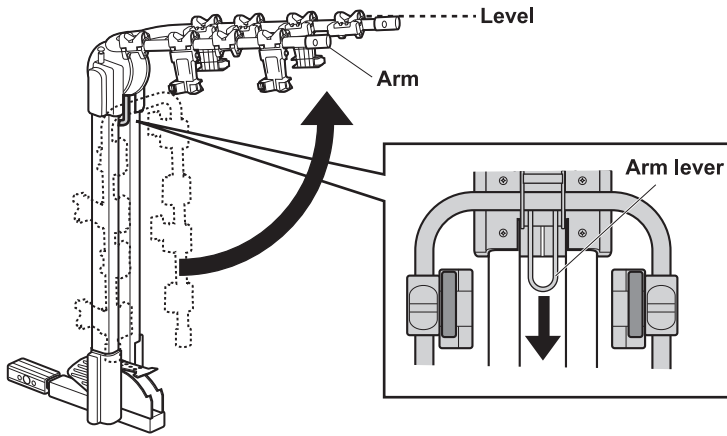
- 3 Insert the tip of installation bolt into the hole of lock cylinder and turn to the lock position.

Disengage lock cylinder

Take off the cap, turn and remove the key.



7. Arm folding

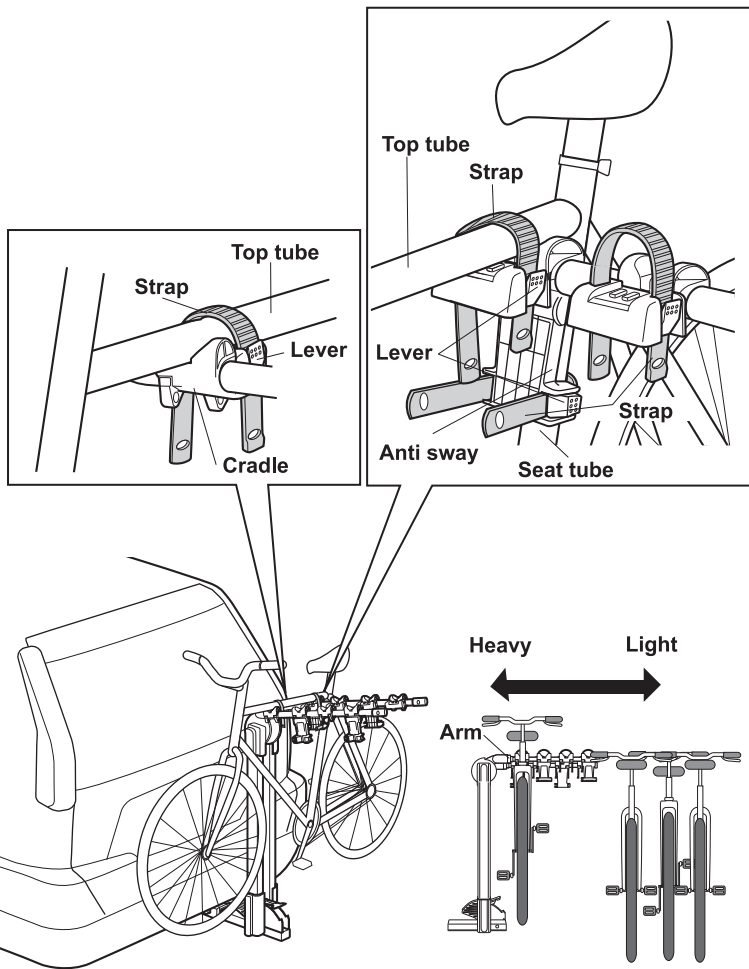


- 1 Pull the arm lever downwards and raise the arm until you hear a clicking sound and it is on the level.

Note

When arm lever is stiff, hold up the arm a little to pull out easily.

8. Loading bike



Caution

When you load more than one bike, it might be possible to be damaged because these hit each other. Please protect the parts might be possibly hit others with cloth, etc.

- 1 Load the top tube of your first bike on the innermost cradle. Make sure seat tube is on the anti-sway side.

Note

- If you are unable to stabilize bikes, adjust cradles by rotating or moving them back and forth.
- Some bikes can not be loaded due to their model and shape.
- Make sure use the cradles closest to the vehicle.

- 2 After loading all bikes, insert straps into carried cradle and anti sway as pushing levers.

Caution

Please use strap as making chevron part outside.

- 3 Tie up bikes as tightening 3 straps for 1 bike. (2 parts for top tube and 1part for seat tube)

Caution

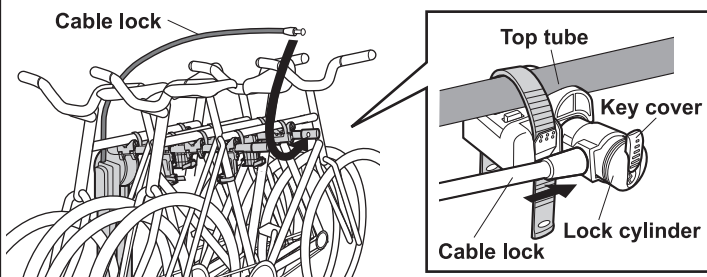
Make sure to check every part is fixed securely before driving.

Lock

Pull out cable lock from the post. Insert it into the lock cylinder until you hear a clicking sound. Make sure cable lock are over top tubes.

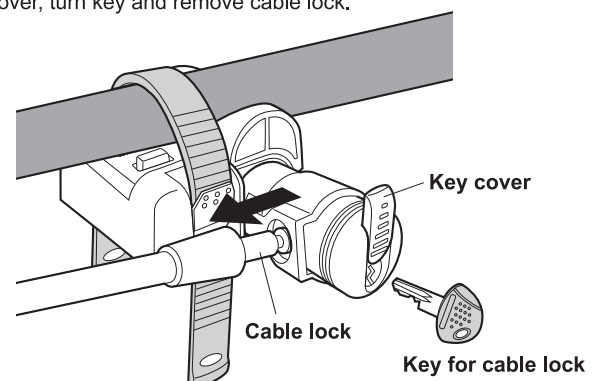
Note

If the cable is loosed, foul the cable to bikes and insert in the cylinder.



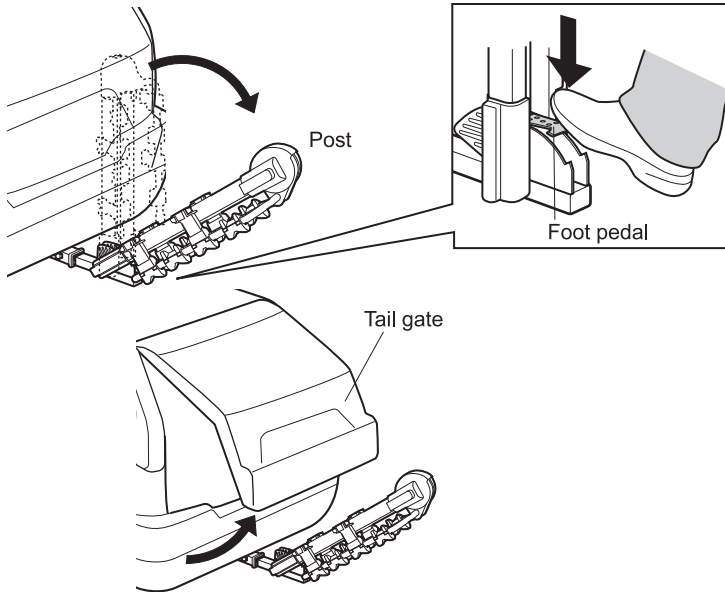
Disengage lock cylinder

Slide key cover, turn key and remove cable lock.



Opening and closing the tail gate

If the hitch interferes with rear hatch or trunk when opening and closing them, lean the post backwards.



1 Unload all bikes if any.

⚠ Caution

While leaning the post make sure there is no objects or people around.

2 Hold either tip of arm or post, step on foot pedal, and slowly lean post backwards.

⚠ Caution

Make sure wearing shoes to work for the foot pedal. If you work with barefoot or hands, it might be possibly hurt.

3 Open and close rear hatch.

⚠ Caution

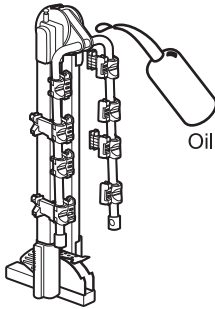
Do not apply pressure on the leaned arm with a load or by leaning on it.

4 Pull back the post until you hear a clicking sound and it is on the vertical level. Make sure it's locked.

⚠ Caution

Shack the post and make sure it's certainly secured.

9. Daily maintenance



1 If the hitch is dirty, wash it with water.

2 Screw water out of a wet towel and remove dirt with it.

3 Dry it completely in the shade.

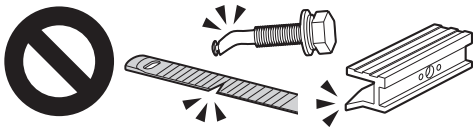
⚠ Caution

- Do not use solvent such as a thinner.
- Do not oil the keys or bolts

10. Storage

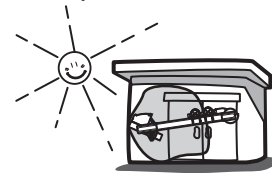
Inspect every parts for cracks or damage.

1 If you find any cracks or damage, discontinue using the hitch and replace it.

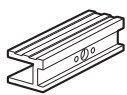


Store the hitch.

1 Store the hitch in dry inside area and avoid direct sunlight.



11. Repair parts



Adaptor



Installation bolt



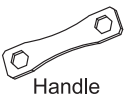
Lock cylinder for Installation bolt



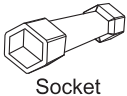
Bolt



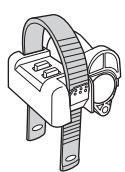
Hex wrench



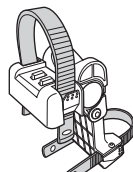
Handle



Socket



Cradle (Hex wrench included)



Anti sway (Hex wrench included)



Cylinder cover



Lock cylinder for Cable lock



Small Flat washer



Large Flat washer



Small Spring washer



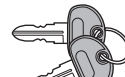
Large Spring washer



Strap



Key for Cable lock



Key for Installation bolt



Instruction manual

Note

Remove the lock cylinder and replace the cradle.

