



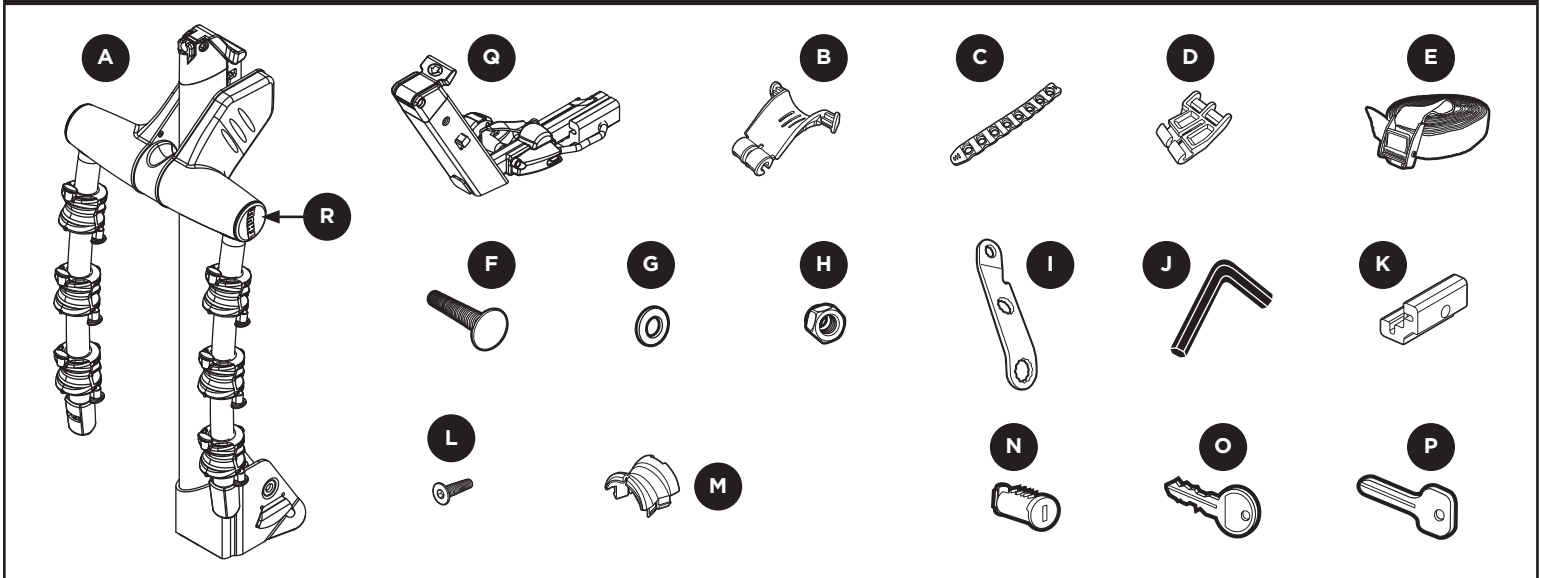
DO

- Loosen locking knob completely before inserting stinger into hitch receiver.
- Make sure Auto Pin engages into receiver hole (STEP 3). Use knob to tighten. Lock.
- Load heaviest bike first–front to the right (STEP 8).
- Alternate bike direction.
- Secure bicycle to rack with rubber straps and safety strap through the frames and around the mast of the rack (STEPS 8-12).
- Check tightness of all bolts and knobs periodically (every 6 months).
- Check rubber straps for wear and replace if worn.

DO NOT

- Install on a trailer or other towed vehicle.
- Put more than 2 bikes on a class 1 hitch.
- Do not “overstretch” the straps.
- Use the rack while traveling on dirt roads.
- Use the rack to carry tandems or recumbents.
- Put more than the intended number of bikes on the rack.

PARTS INCLUDED



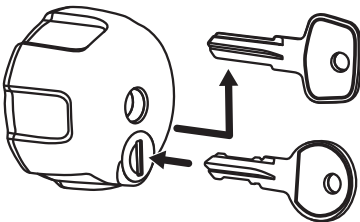
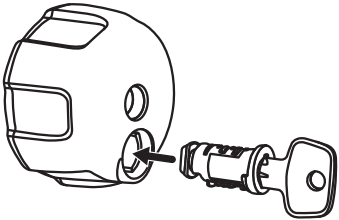
part	description	part number	9042 qty.	9043 qty.
A	mast/arm assembly /	-	1	1
B	anti-sway cage with overmold	8523037001	2	3
C	ripple strap /	8523006001	6	9
D	anti-sway angled extension	8523108001	1	1
E	strap assembly with buckle /	753203007	1	1
F	1/2 - 13 hex bolt /	853701202	1	1
G	washer 12mm id 24mm od	951122454	2	2
H	1/2 - 13 lock nut /	853558402	1	1
I	hitch tool /	8535524	2	2
J	hex key 5mm /	8530930	1	1
K	2" hitch adapter sleeve	8523185001	1	1
L	M8 x 30 flat head screw /	8523136001	2	2
M	cradle overmold /	8523503001	4	6
N	lock cylinder /	-	2	2
O	key /	-	2	2
P	lock cylinder change key /	8531251	1	1
Q	stinger assembly /	-	1	1
R	side cap /	8523302001	2	2

WARNINGS / LIMITATIONS

- Number of bicycles should not exceed designated carrying capacity for your specific Helium Aero™ model.
- Maximum bike weight = 35lbs. per bike.
- The maximum capacity for class 1 hitches is 100 lbs.
- Check tightness of all bolts and knobs periodically.
- Check straps for wear and replace if worn.
- Not intended for off-road use.
- Not intended for tandems or recumbents.
- Your vehicle must be equipped with a 2" or 1 1/4" receiver hitch.
- Do not install on a trailer or other towed vehicle.
- Failure to use blue safety strap may result in loss of bicycles.

1

STINGER ASSEMBLY - LOCK CYLINDER INSTALLATION INTO LOCK KNOB

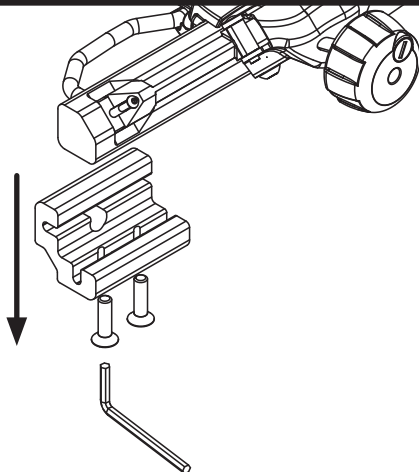


- Insert change key into lock cylinder.
- Insert cylinder into lock knob.
- Remove change key. Insert locking key to lock and unlock.

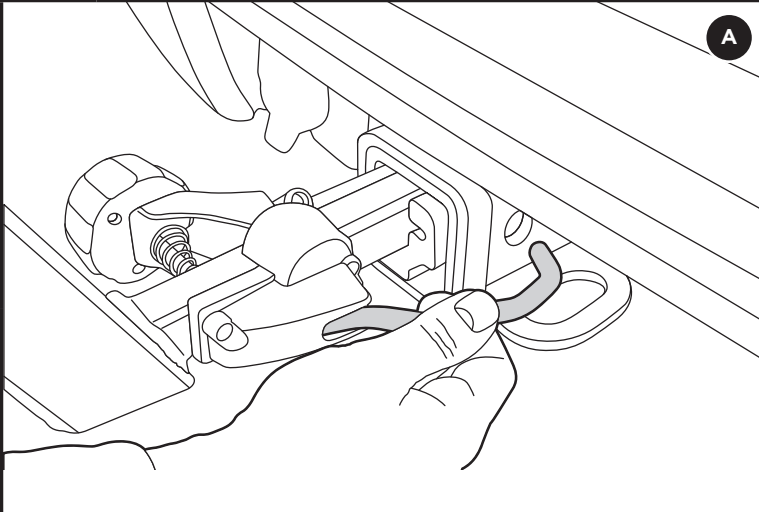
NOTE: In locked position the knob will spin freely.

2

STINGER ASSEMBLY



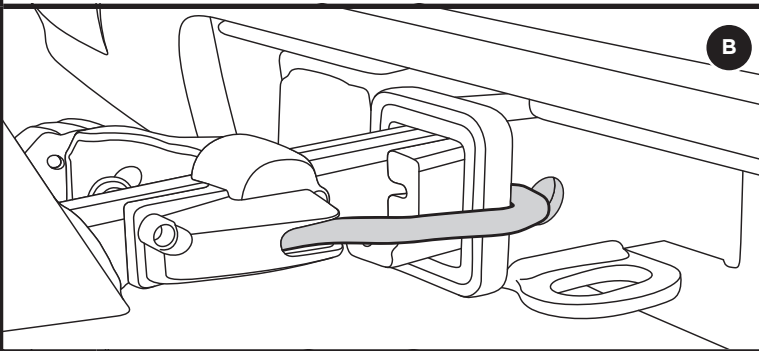
- **2" RECEIVERS:** Proceed to step 3.
- **1 1/4" RECEIVERS:** Remove 2" adapter sleeve using provided hex key.



A

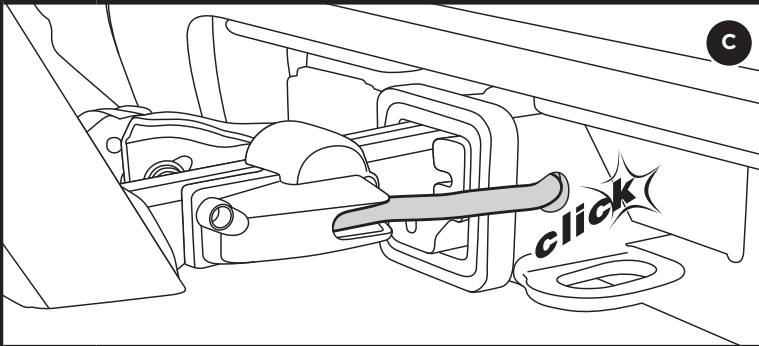
- Loosen locking knob completely.
- Pull back gently on Auto Pin and slide stinger into receiver.

NOTE: Do not lift/carry hitch rack by Auto Pin.



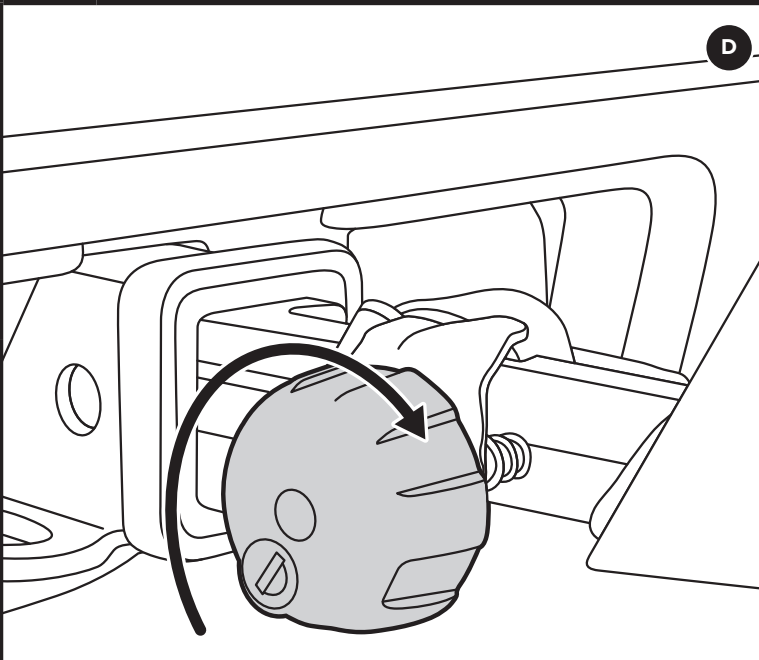
B

- Once receiver lip is cleared, push Auto Pin so that it rests against receiver.



C

- Push carrier in until Auto Pin engages with the receiver hole as illustrated.



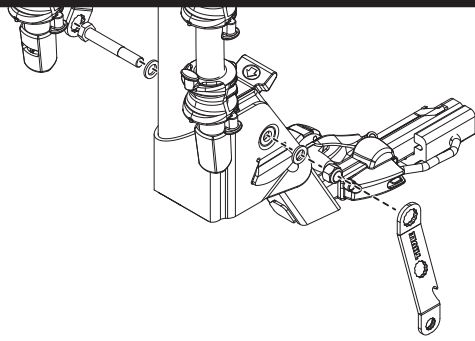
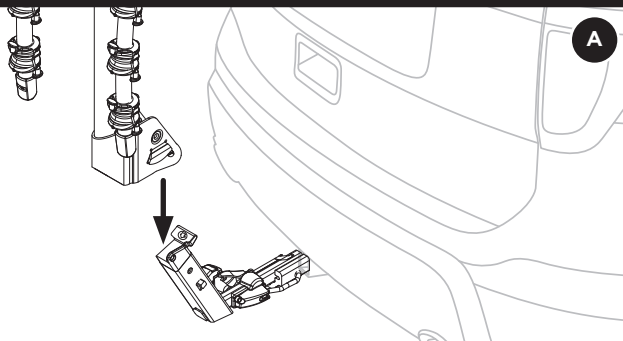
D

- Firmly tighten locking knob to secure carrier to receiver. If rack moves within the hitch receiver, the knob should be tightened more firmly.

NOTE: Knob will not tighten fully without lock cylinder inserted. Refer to Step 1 for lock cylinder installation instructions.

4

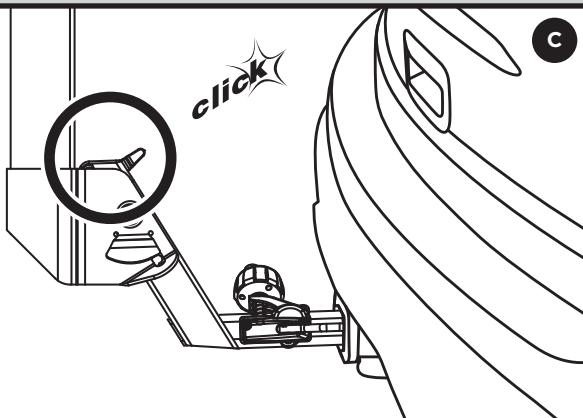
UPRIGHT ASSEMBLY



- Align bottom plate holes with stinger holes as illustrated.

- Insert 1/2 - 13 bolt, (2) flat washers and 1/2 - 13 lock nut as illustrated. Note: Bolt may need to be threaded (twisted) through stinger assembly.
- Tighten firmly using both provided hitch tools.

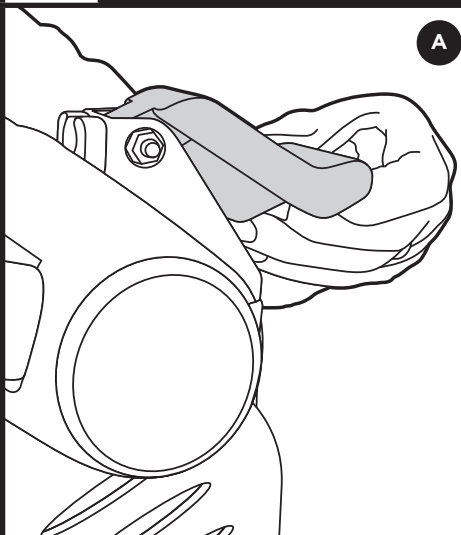
NOTE: It is also acceptable to fasten the mast to the stinger assembly before attaching the rack to the vehicle (i.e., on the ground).



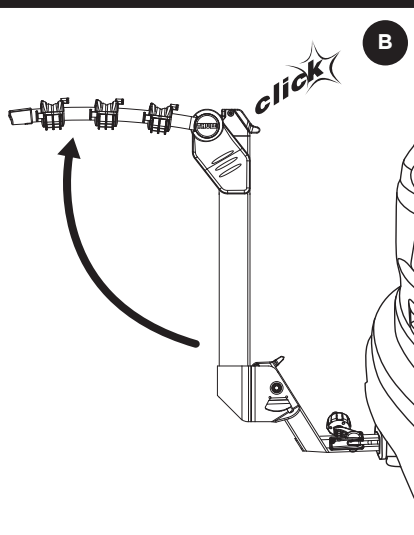
- To confirm that proper tightness has been achieved, lower and raise the rack using the bottom hitch switch. If the hitch switch does not “click” into place when put in the upright position, loosen the lock nut slightly and try again.

5

CRADLE, ANTI-SWAY CAGE AND STRAP ASSEMBLY



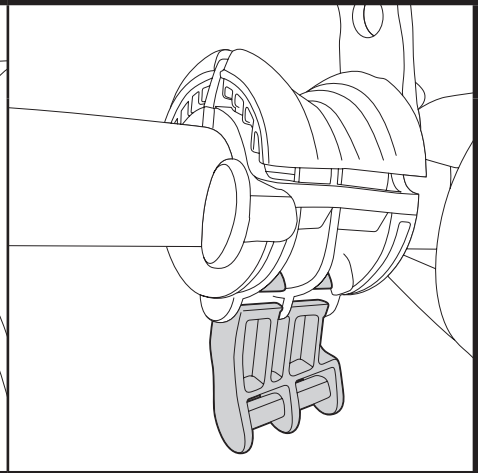
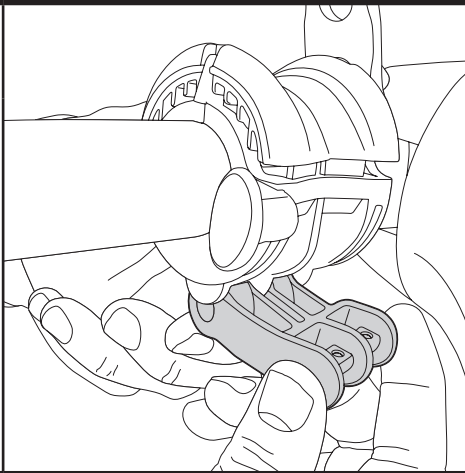
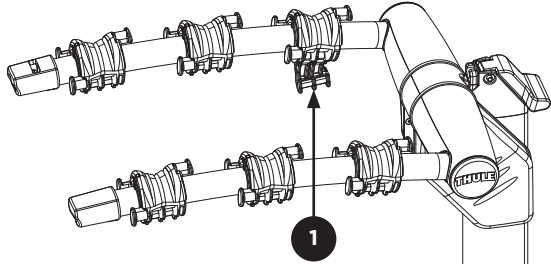
- Raise arms by pulling up on upper Hitch Switch.



- With your other hand, lift bike arm assembly upward until the Hitch Switch “clicks” into position.

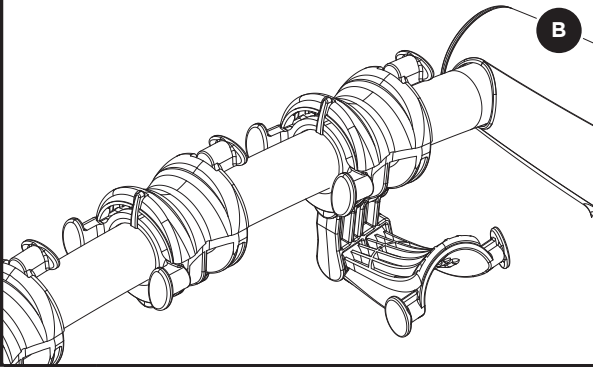
6

A



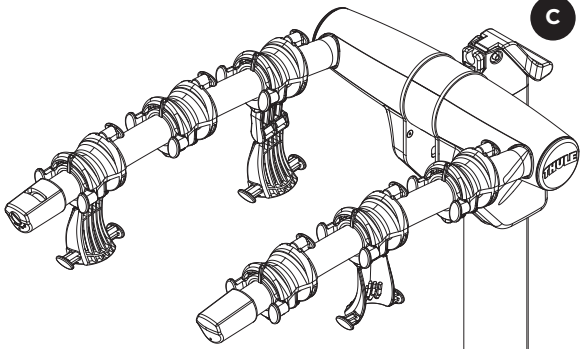
- Attach anti-sway angled extension to the underside of cradle 1 as illustrated.
- Pivot down to the vertical position.

B



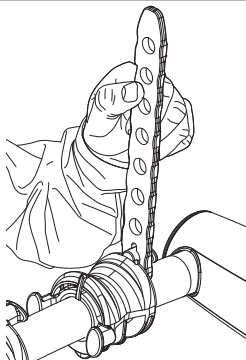
- Hold anti-sway cage horizontal with smooth edge facing down. Slide c-slot opening into anti-sway extension.
- Swing down into vertical position.

C



- Repeat on alternating cradles (left to right) so there is a single cage for each bike as illustrated.

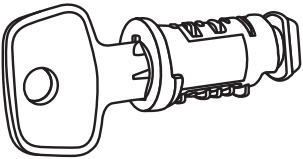
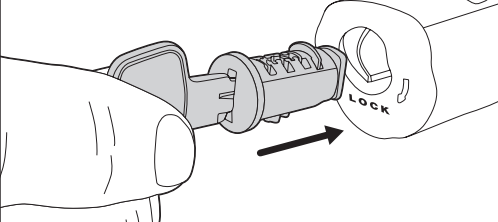
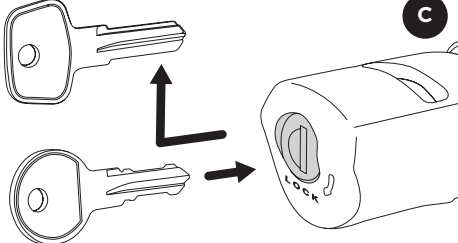
D



- Attach (1) ripple strap to each cradle and anti-sway cage.

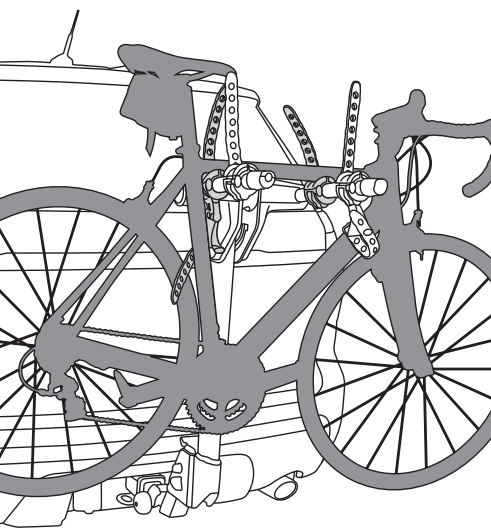
7

END CAP LOCK CORE INSTALLATION

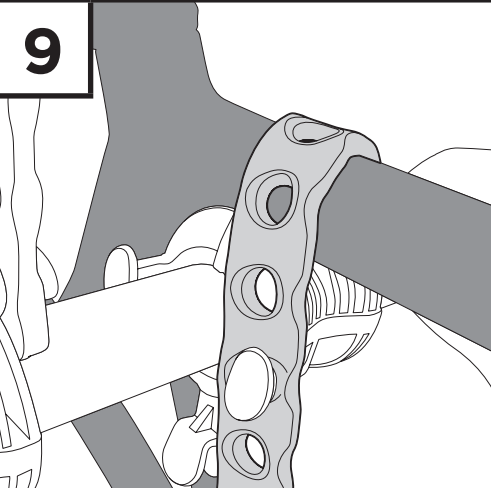
 <p>A</p>	 <p>B</p>	 <p>C</p>
<ul style="list-style-type: none">• Insert change key into lock cylinder.	<ul style="list-style-type: none">• Insert cylinder into locking end cap.	<ul style="list-style-type: none">• Remove change key. Insert locking key to lock and unlock.

8

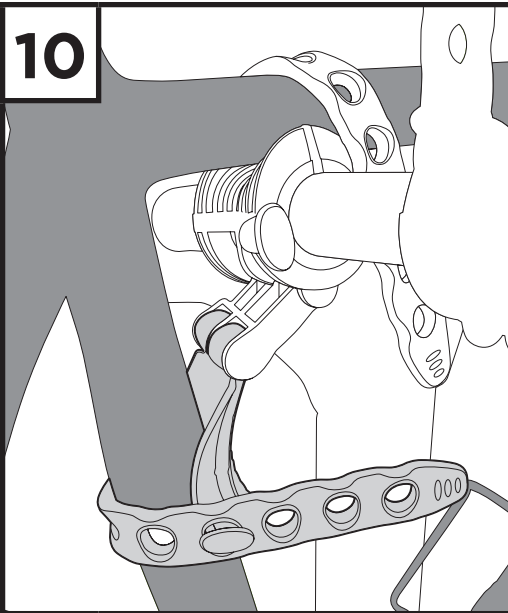
BIKE LOADING

	<ul style="list-style-type: none">• With the bike arms in the upright position, load the heaviest bike first onto the cradles that are closest to the vehicle as illustrated. <p>NOTE: Bikes without traditional top tubes may require the Frame Adapter accessory (#982XT, sold separately).</p>
---	--

9

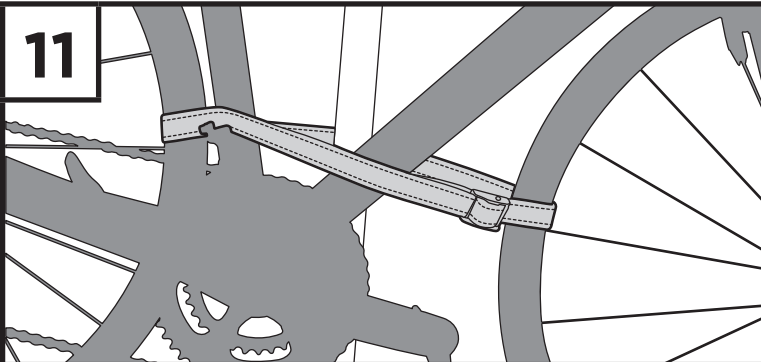
	<ul style="list-style-type: none">• Securely fasten both cradle straps around each bicycle frame.
--	---

10



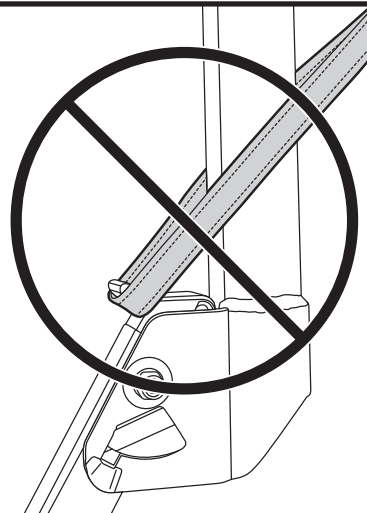
- Place smooth curved surface of anti-sway cage against seat tube and attach strap as shown.
- Mount additional bicycle(s) in alternate directions.

11



CORRECT /

- Secure bikes to mast of carrier with included webbing strap.

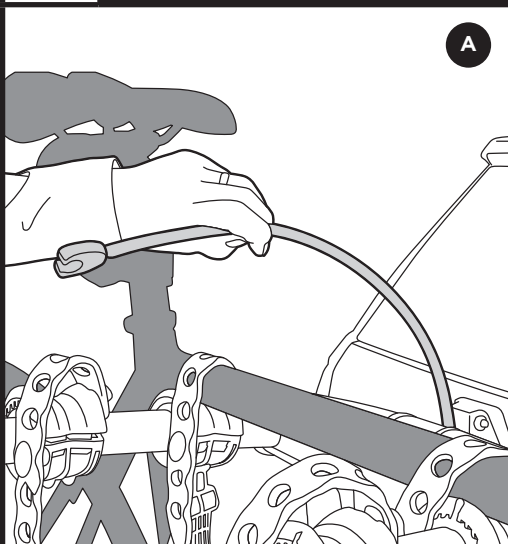


INCORRECT

NOTE: Do not allow strap to be positioned below Hitch Switch lever.

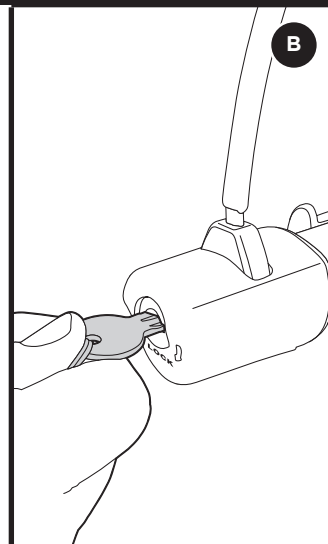
12

INTEGRATED CABLE LOCK USE



A

- Once bikes are loaded, pull up on cable lock located inside the mast and place metal end into the locking end cap.



B

- Use locking key to secure.

NOTE: BIKES MUST BE REMOVED TO LOWER CARRIER.

- Firmly hold the upright assembly with one hand. Lift lever to lower.
- Gently lower carrier to built-in stop position.
- Reverse operation to return to upright, secured position.