

## **HOLLYWOOD RACKS** Assembly and installation guide for TRS (Tire Retention System) bike rack

- **Model HR3000 (1 ¼" – 2" hitches) 2 BIKE CAPACITY, MINIMUM CLASS II HITCH REQUIRED**
- **Model HR3500 (2" hitches only, includes keyed alike locking hitch pin and cable) 2 BIKE CAPACITY, MINIMUM CLASS II HITCH REQUIRED**

**Weight Limit 50 lbs/22.5 kg per bike**

**Maximum Bike Tire Width: 4.5"**

**Not to be used on any trailer, fifth wheel or towed vehicle**



**HOLLYWOODRACKS.COM**

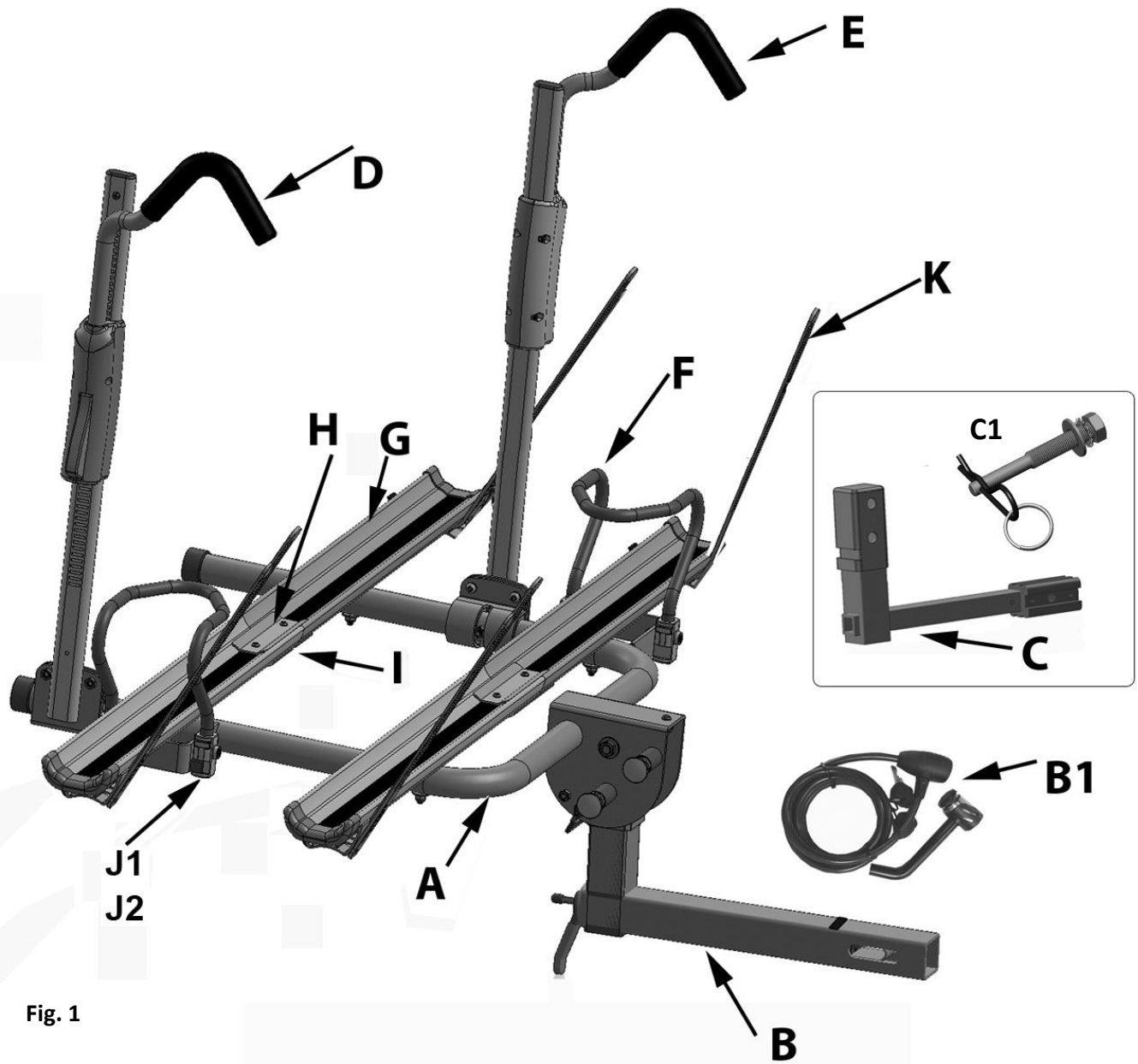


Fig. 1

ID	DESCRIPTION	QTY	ID	DESCRIPTION	QTY
A	MAIN FRAME	1	D	OUTSIDE BIKE TIRE HOOK	1
B	2" HITCH TUBE (INCLUDED WITH MODEL HR3500)	1	E	INSIDE BIKE TIRE HOOK	1
B1	LOCKING HITCH PIN & CABLE (INCLUDED WITH HR3500)	1	F	TIRE CAGE	2
C	1/1"4-2" HITCH TUBE (INCLUDED WITH MODEL HR3000)	1	G	WHEEL TRAY (HALF)	4
C1	THREADED HITCH PIN WITH CLIP (INCLUDED WITH HR3000)	1	H	UPPER PLATE	2
			I	LOWER PLATE	2
			J1, J2	TIRE CAGE CAPS	4
			K	RATCHET STRAP	4

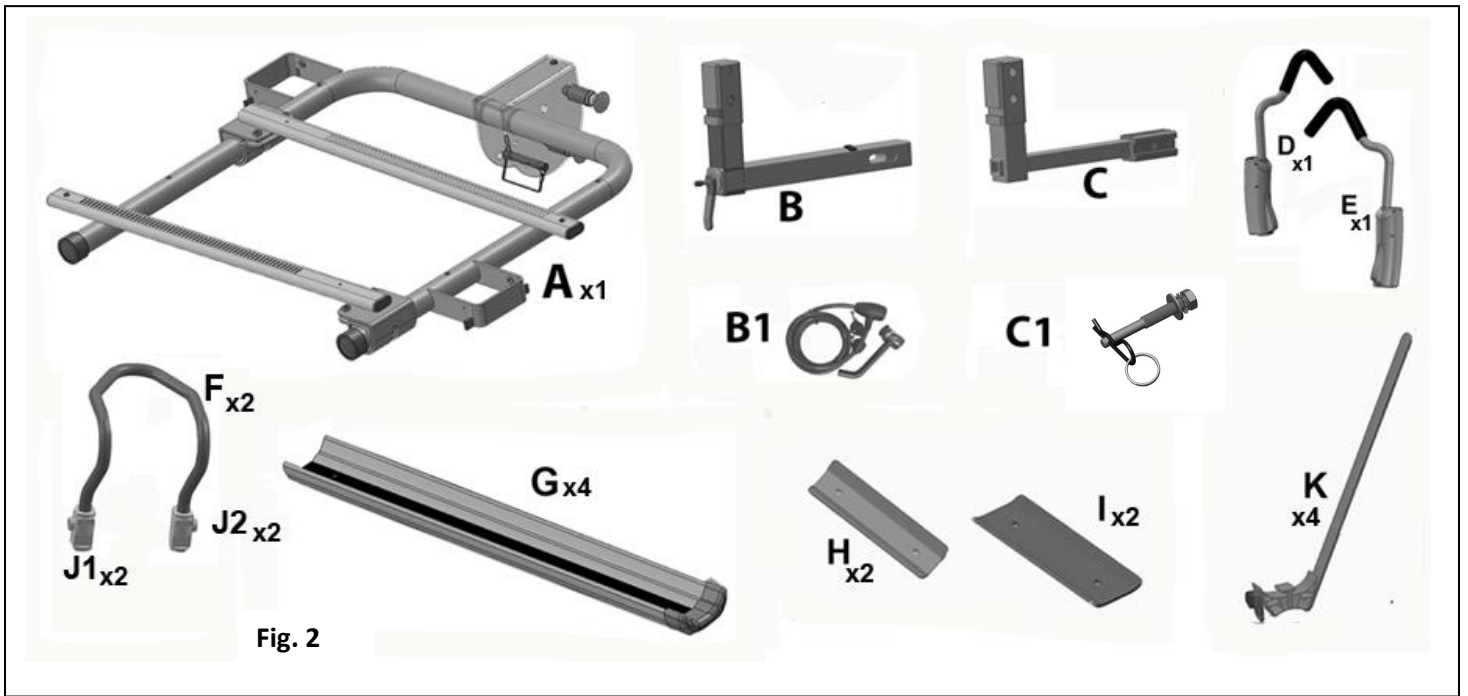


Fig. 2

**HARDWARE:**

ID	DESCRIPTION	QTY
a-a	carriage bolt, 5/16-18 x 30mm	4
b-b	nylock nut, 5/16-18	8
c-c	carriage bolt, 5/16-18 x 60mm	4
d-d	multi-wrench	1
e-e	steel washer, 8.5mm ID	8
f-f	6mm internal tooth lock washer	2
g-g	nylon washer, 8.5mm ID	4
h-h	socket screw, M6x40mm	4
i-i	washer, 6.5mm ID	4
j-j	nylock nut, M6	4
k-k	Phillips head screw, M6	2
l-l	4mm Allen key, HR3000 only	
m-m	socket head bolt, 1/2-13 x 84mm	1
n-n	nylock nut, 1/2-13	1
o-o	Hollywood Racks stickers	2
p-p	washer, 13.5mm ID	2
q-q	8mm Allen key	1
r-r	5mm Allen Key (HR3500 only)	1

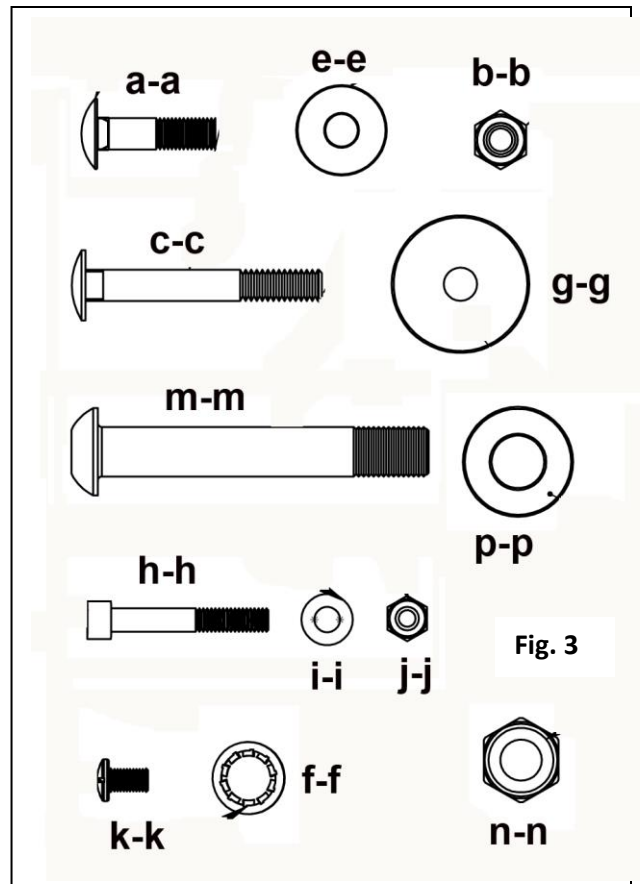


Fig. 3

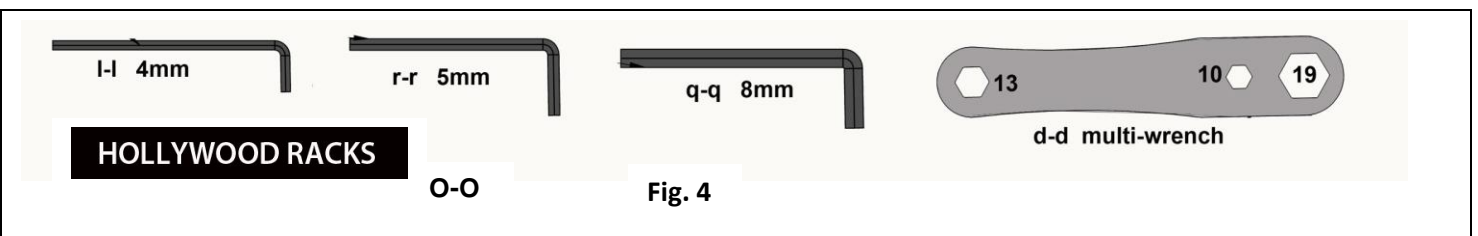


Fig. 4

**Step 1: Assemble wheel trays**

**Per Fig. 5:** Identify required components (quantity indicated is per wheel tray)

**Per Fig. 6:** Insert wheel ratchet strap K into the open end of wheel tray G. Insert carriage bolt c-c into the end of tray G. Repeat steps for all trays. When assembling, be sure the ratchet strap is facing the same side as the first one installed.

**Per Fig. 7:** Place the upper plate H on top of wheel tray G, and lower I plate below G. Insert carriage bolt a-a through the holes of parts H, G, & I and install washer e-e & nut b-b onto bolt. Leave the nut and bolt just a little loose at this time.

**Per Fig. 8:** Slide the other wheel tray (half) G between upper plate H and lower plate I. Insert carriage bolt a-a through the holes of parts H, G, & I and install washer & nut onto bolt. Tighten with wrench. Repeat all above steps for the second wheel tray.

**Per Fig. 8:** Trays should be aligned together tightly and assembled. Tighten nuts b-b securely

**Be sure carriage bolts c-c are protruding from bottom of slot in the tray and both straps K are facing the same direction per Fig. 9**

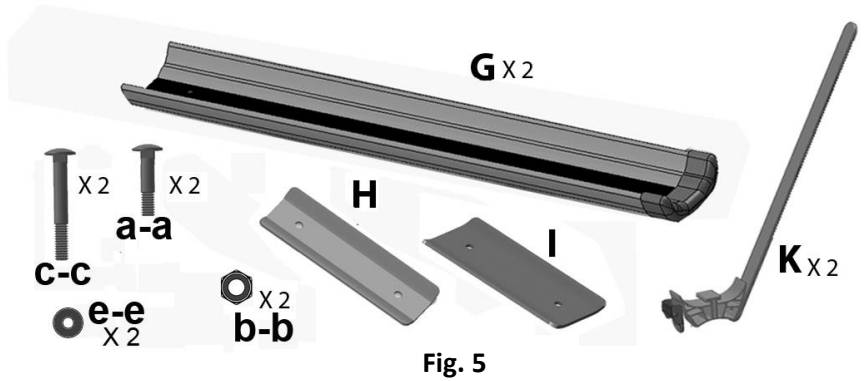


Fig. 5

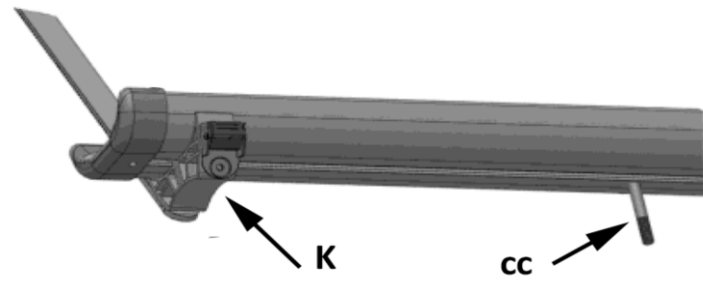


Fig. 6

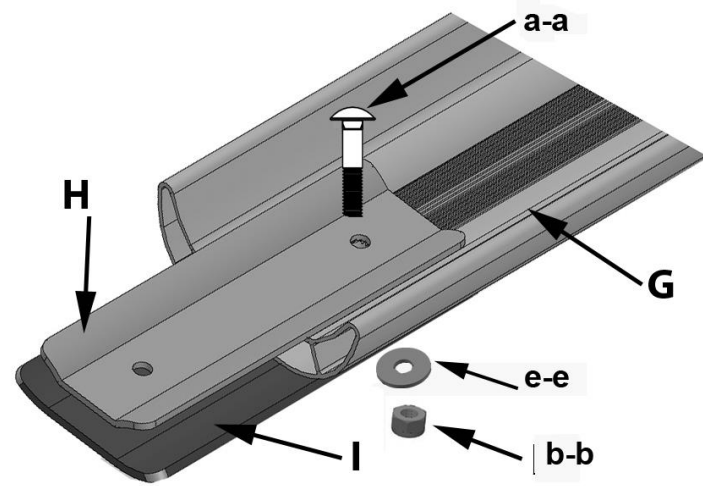


Fig. 7

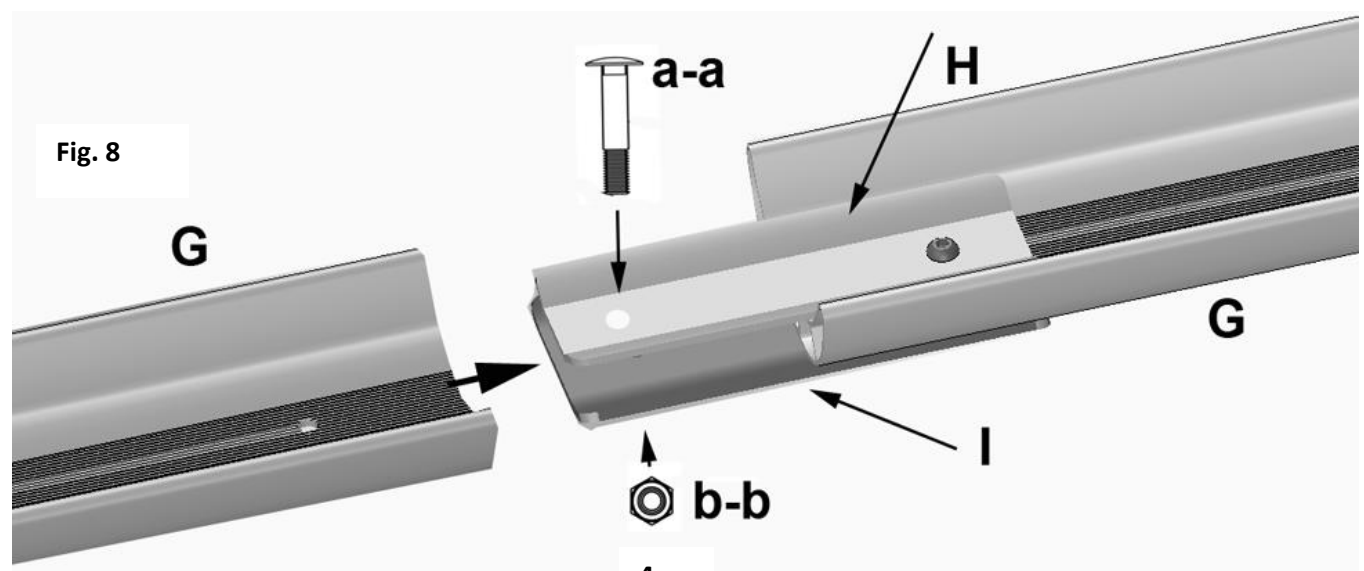


Fig. 8

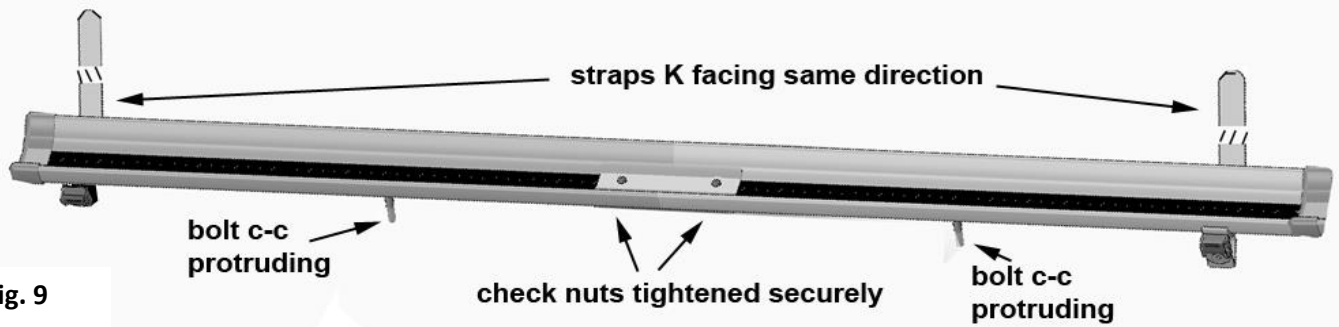


Fig. 9

**Step 2: Assemble main frame to hitch tube.**

Per Fig. 10, prepare the components on a flat table or work surface.

Per Fig. 11, locate the Spring Pins and holes in the folding bracket

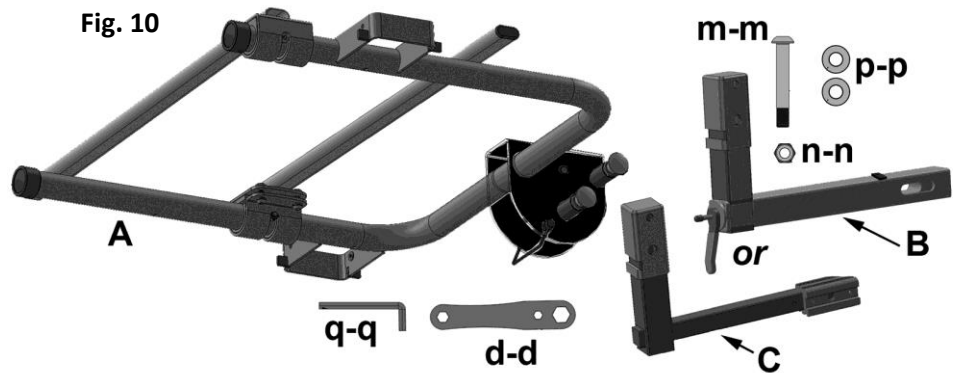


Fig. 10

*Note: it will be easier to do this part of the assembly on a flat surface or work table.*

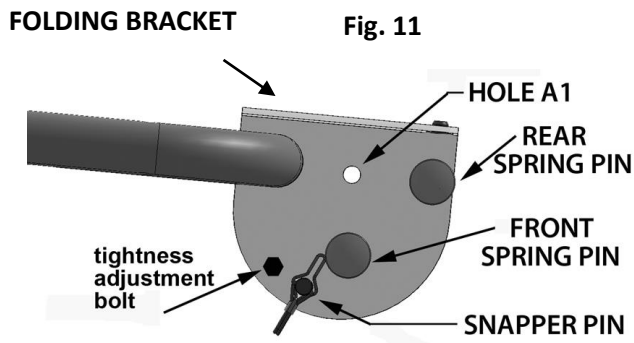


Fig. 11

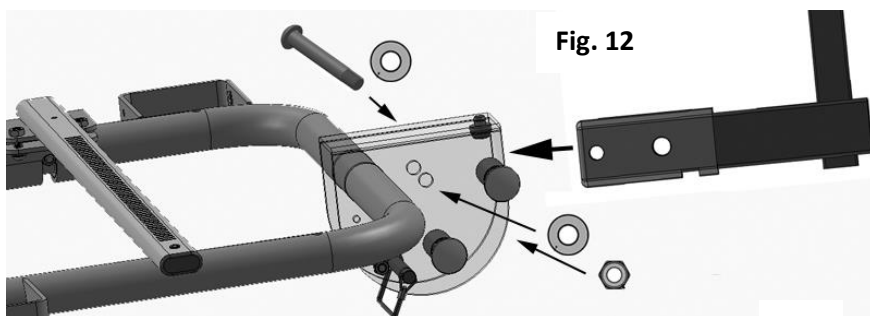


Fig. 12

**Per Fig. 12:** Retract the rear spring pin and insert the hitch tube into the folding bracket. Align the small hole of the folding bracket with the small hole of the square tube. After inserting, the rear spring pin will drop into the large hole in the square tube.

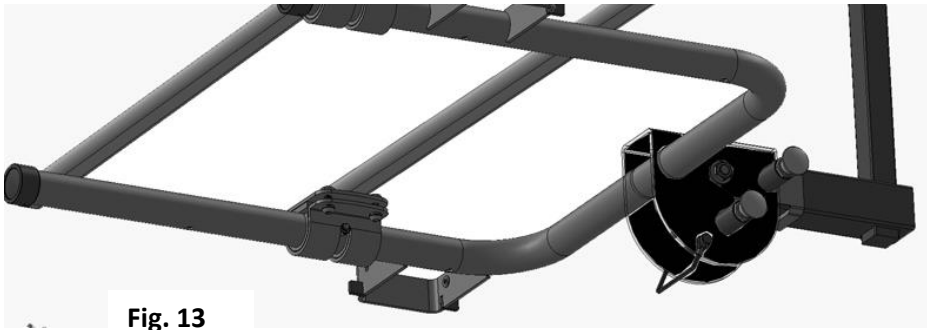


Fig. 13

Tighten bolt **m-m** and nut **n-n** until end of bolt is protruding through the end of nut. Tighten securely. As this will require a fair amount of torque, insert Allen key **q-q** into the bolt so the handle is resting against the tube. Now use wrench **d-d** or equivalent to tighten nut **n-n**.

Per Fig. 12 and 13

Install washer **p-p** onto bolt **m-m** and insert bolt & washer through holes **A1** so the end of the bolt is protruding out of the bracket.

Install washer **p-p** and nut **n-n** onto bolt end using hex key **q-q** and wrench **d-d** (or adjustable,  $\frac{3}{4}$ " or 19mm). Tighten securely. They may have to be re-tightened after the rack has been installed into the trailer hitch.

**Step 3: Install rack into hitch**

**Note: The final assembly steps can be done on a table top, but it is easier to do with the rack installed on the trailer hitch.**

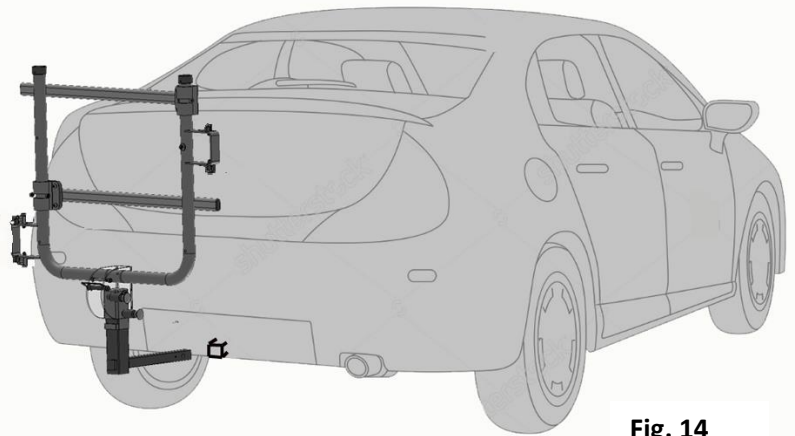


Fig. 14

**Step 3A: For model HR3000 (1  $\frac{1}{4}$ "-2" threaded hitch pin version, locking hitch pin NOT included): Install Hitch Tube (c) into vehicle's trailer hitch** Per Fig. 15, 16 & 17: With the rack "folded flat" against the rear of the vehicle per Fig 14, insert the receiver tube into the hitch and align the holes. Thread and tighten the bolt securely through the hitch and receiver tube using a wrench (adjustable,  $\frac{3}{4}$ " or 19mm) then insert the hitch pin clip. The rack should now be solidly mounted to your hitch.

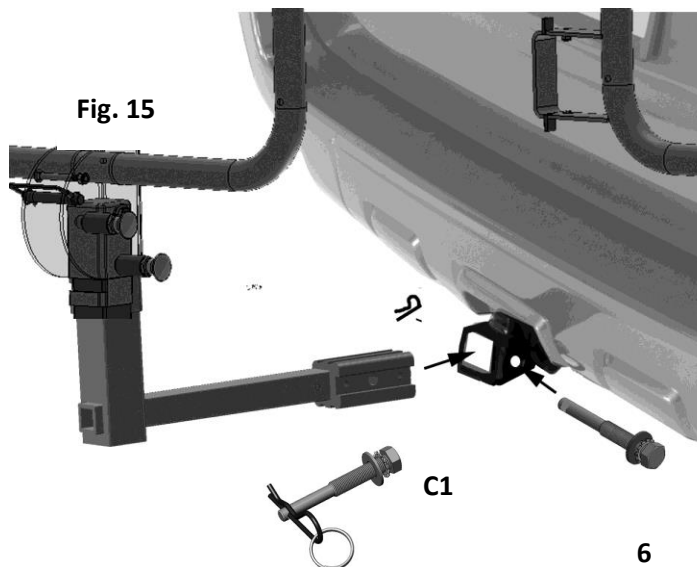


Fig. 15

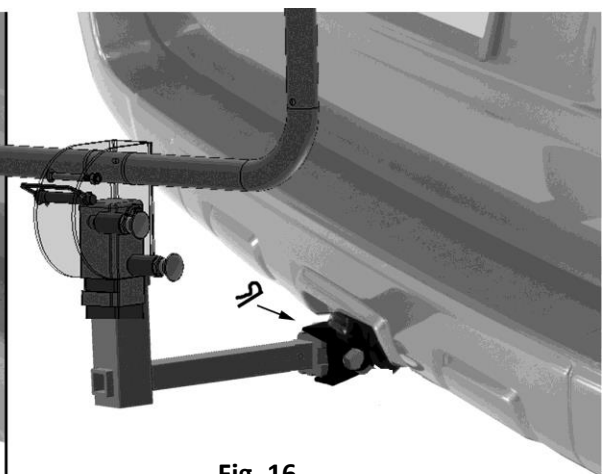


Fig. 16

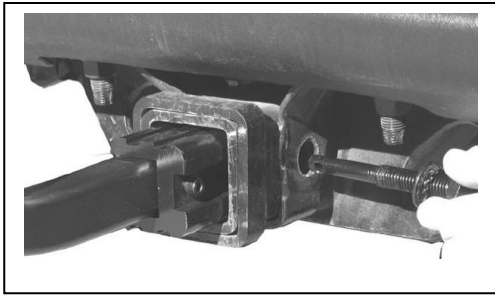


Fig. 17

**Use with 1 1/4" hitches:**  
 If the rack is to be used on a 1 1/4" hitch, remove the aluminum spacer block from the receiver tube with the included 4mm Allen key I-I.



**Step 3B: For model HR3500 (2" "no-wobble system" version, locking hitch pin included):**

**Install Hitch Tube (B) into vehicle's trailer hitch** Per Fig. 11a & 11b: Slide the rack in the folded-up position into the trailer hitch until it stops. Remove locking head from hitch pin **B1** and insert pin through the hole in the trailer hitch and hitch tube until it passes through the opposite side. Tighten the front lever until good and snug. If you intend on using the rack after assembly, then install the locking head onto the end of the hitch pin, otherwise it is not required to complete the assembly. Front lever position after tightening should always be pointed to the side to avoid damage when going up or down steep driveways.

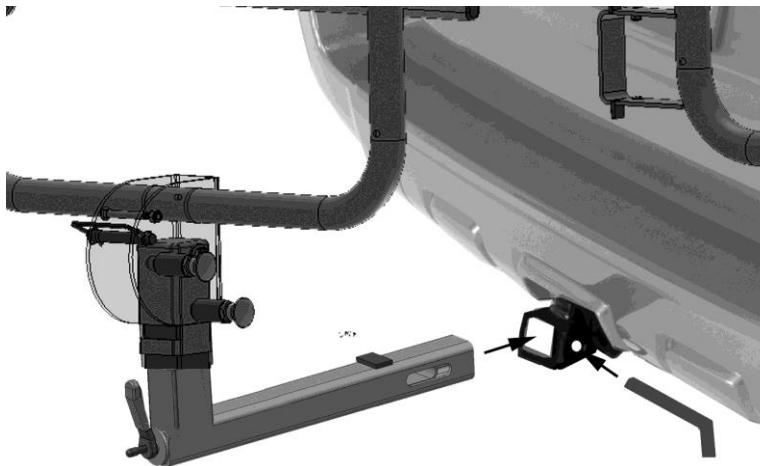


Fig. 18

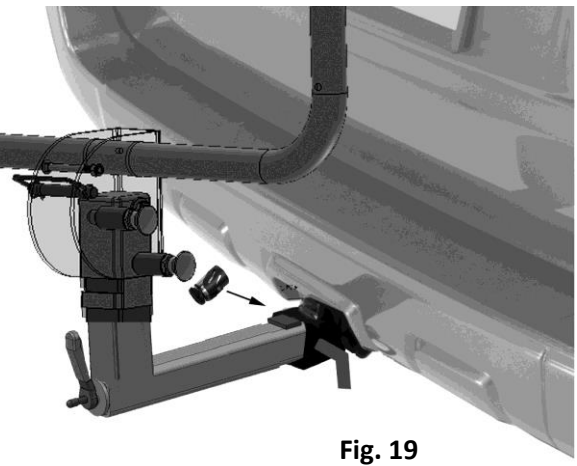


Fig. 19



B1



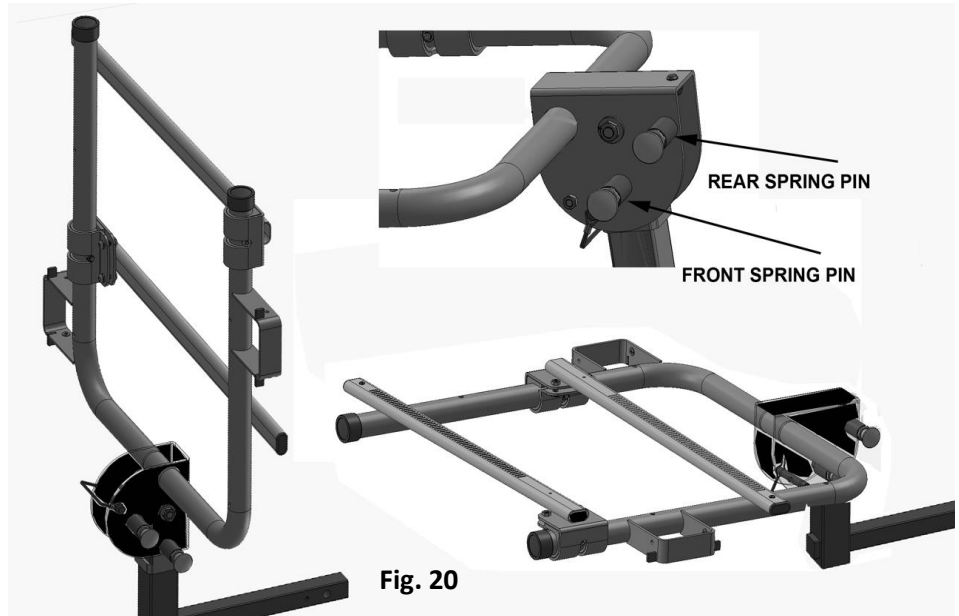
Optional Locking Threaded Hitch Pin with Keyed Alike Security Cable  
 Model No. LHPTC  
 Sold Separately

OPTIONAL LOCKING HITCH PIN AND CABLE IS AVAILABLE FOR MODEL HR3000.

#### Step 4: Fold-Up/Fold-Down

**Per Fig. 20** Pull the rear spring pin out and rotate the rack down until the front spring pin clicks into place.

**To return the rack to its folded position, pull the front spring pin out and rotate the rack up until the rear spring pin clicks into place.**

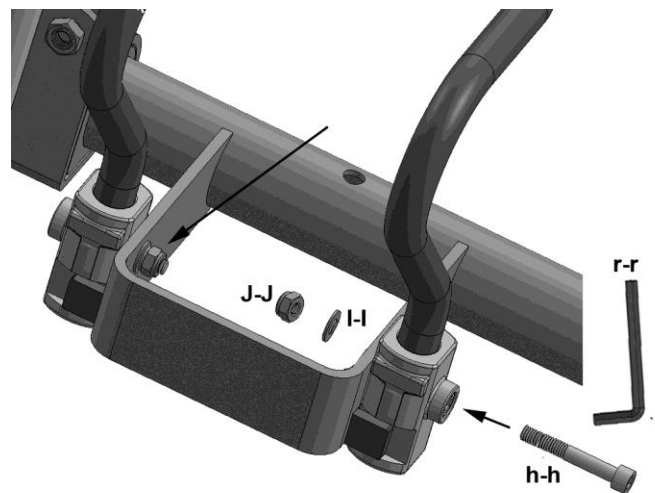
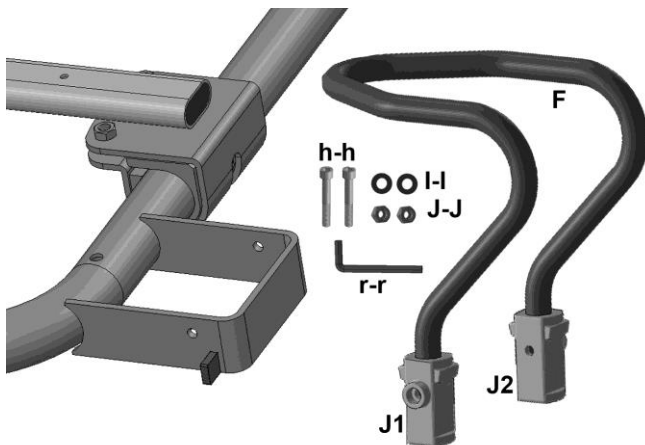


#### Step 5: Assemble tire cages to main frame FOLD THE RACK DOWN PER STEP 4

**Per Fig. 21:** Locate the main frame's square bracket and prepare tire cage F and hardware. Install Plastic housing J1 and J2 onto tire cage F (if not already installed).

**Per Fig. 22:** Before assembly, check that the holes of J1 and J2 are aligned with the holes of tire cage F. If not aligned, use the hex key or a thin screwdriver to make the alignment. Place the tire cage onto the square bracket and align the holes. Insert the bolts through the tire cage so they protrude through the square bracket. Install washers i-i and nuts j-j onto the bolts using 5mm hex key r-r and wrench d-d (or small adjustable, 3/8" or 10mm). Tighten so that the tire cage has medium to strong resistance when folding. Repeat for second tire cage.

**Try rotating the tire cages forward. There should be medium to strong resistance.**





### Step 6: Install Tire Hooks

**Per Fig. 23:** Prepare the tire hooks, washers **f-f** and screws **k-k** (Phillips screwdriver required). Use Inside Tire Hook **E** for inner bike position (closest to car). Slide the Inside Tire Hook **E** down over the outer ratchet arm. Note the trigger faces the driver's side of the vehicle. Hook will be centered over the rack's inside bike tire cage. Insert screw **k-k** into washer **f-f**. Install washer & screw into hole located at top of ratchet arms with screwdriver.

**Per Fig. 24:** Slide the Outside Tire Hook **D** down over the inner ratchet arm. Note the trigger faces the passenger's side of the vehicle. Hook will be centered over the rack's outer bike tire cage. Install washer & screw into hole located at top of ratchet arms with screwdriver.

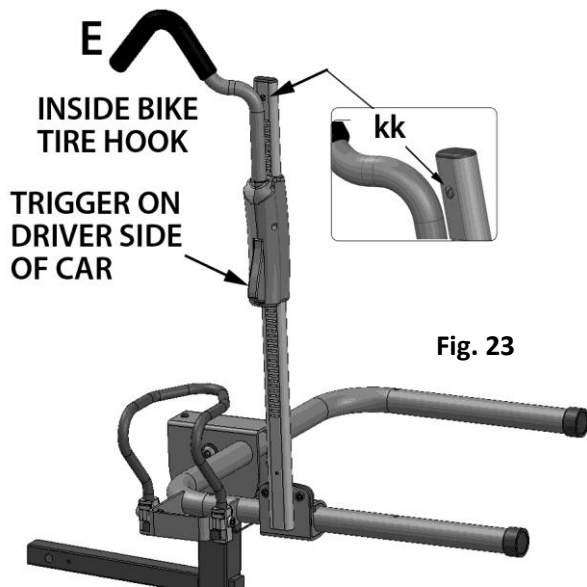


Fig. 23

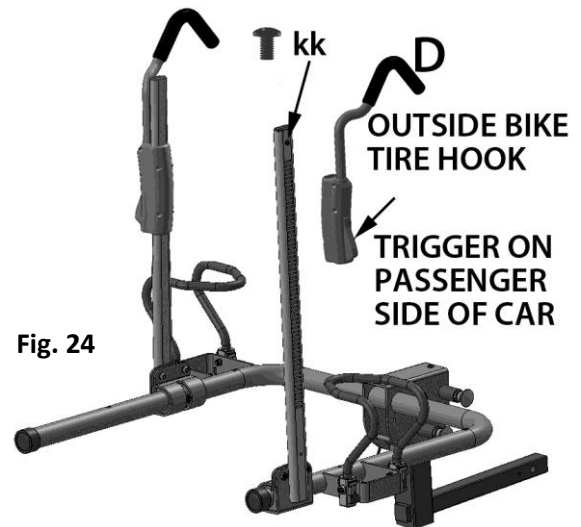


Fig. 24

### Step 7: Install wheel trays

**Per Fig. 25:** Place large nylon washers **g-g** on top of main frame tubing. Slide carriage bolts so they align with holes in the frame's tubing. Insert both carriage bolts through the washers and frame so the bolts protrude from the bottom. NOTE: you will have to carefully "feed" the wheel trays through the tire cages for positioning.

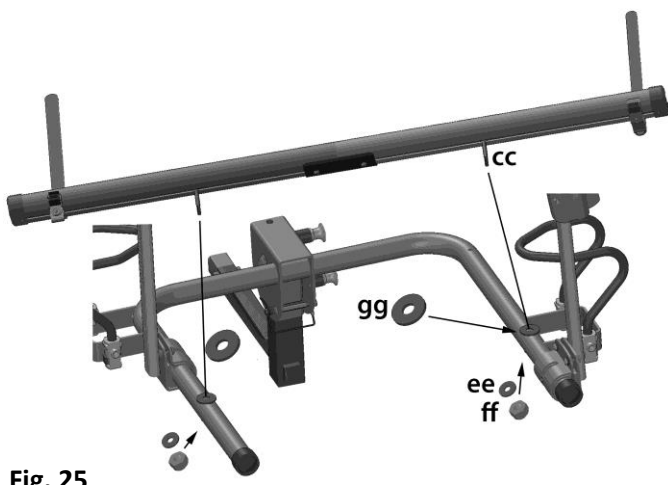


Fig. 25

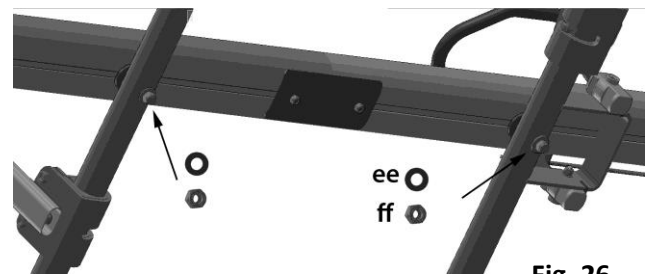


Fig. 26

**Per Fig 26:** Install washer **e-e** and nut **f-f** onto bolts. Tighten using wrench **d-d** (or small adjustable, 1/2" or 13mm). **Per Fig 27:** Repeat installation for second wheel tray. **Trays should be centered on rack.**

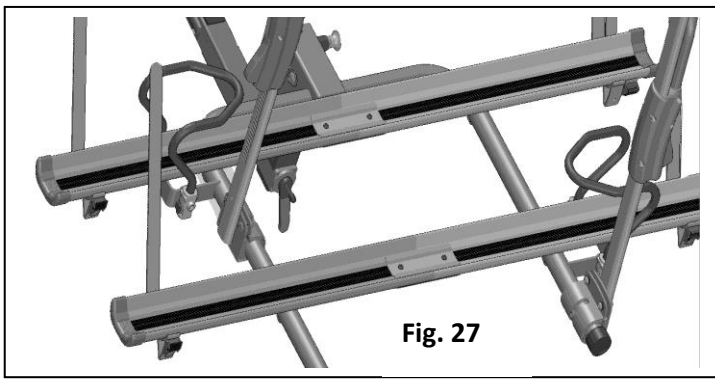


Fig. 27



Fig. 28

**Step 8: Tilt-Down Function** Per Fig. 28, 29: Lift up the rack and remove the snapper pin. Pull out the front spring pin and hold the main frame while it tilts down into position. To return the rack to its in-use or folded up position, lift the main frame until the front spring pin clicks into place. **Lift rack** and install the snapper pin.

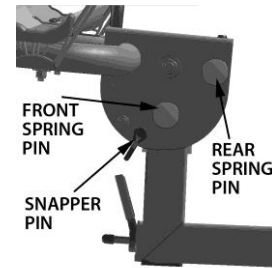


Fig. 29

**Step 9: Final adjustments**

9-A: Per Fig. 31, Re-tighten bolt **m-m** and nut **n-n** until end of bolt is clearly flush with end of nut. As this will require a fair amount of torque, insert Allen key **q-q** into the bolt so the handle is resting against the tube. Now use wrench **d-d** or equivalent to tighten nut **n-n**.

9-B: Per Fig. 31, If necessary, tighten using wrench **d-d** and small adjustable wrench to remove additional play in the bracket. This bolt also acts as an angle limit when tilting the rack down for cargo access.

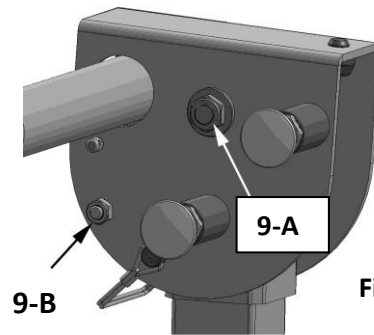
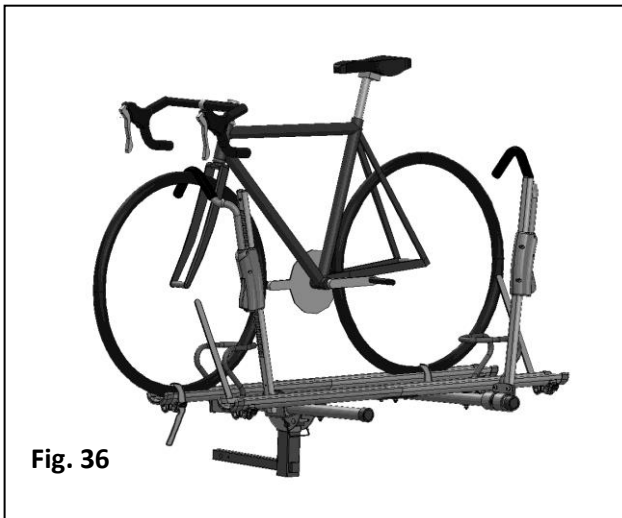
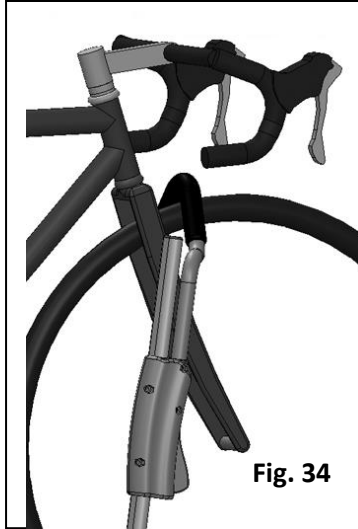
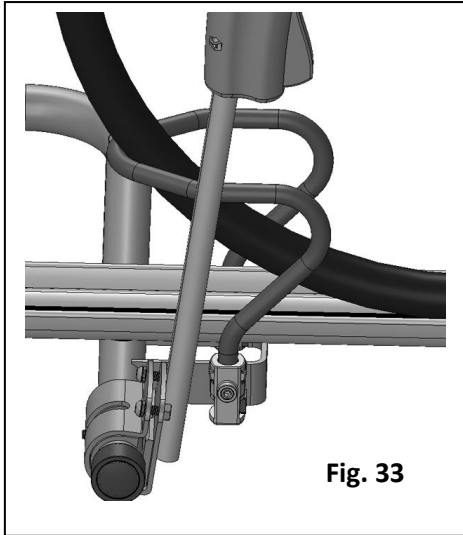
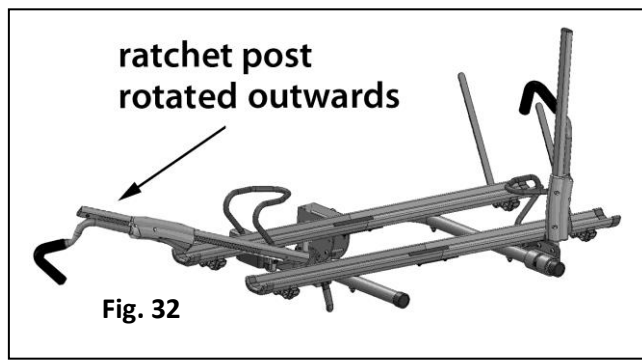
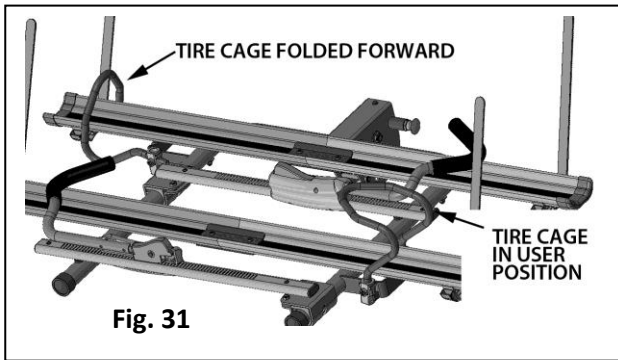


Fig. 30

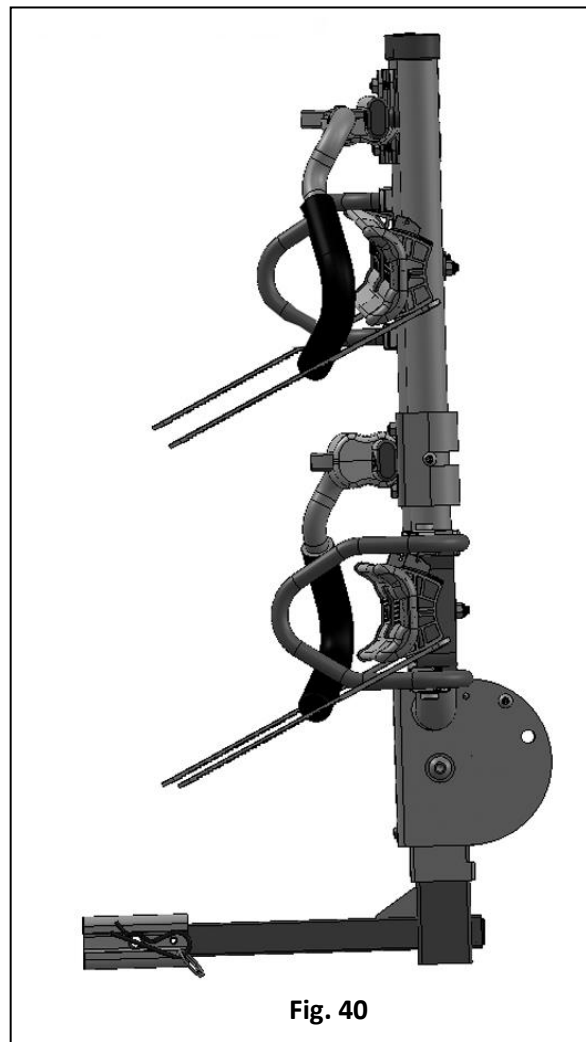
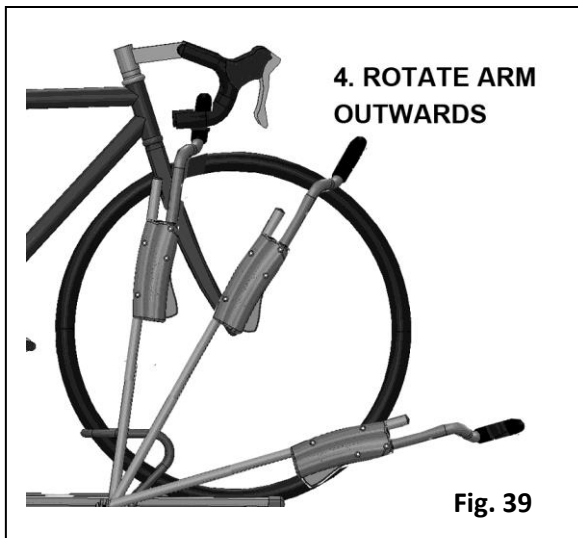
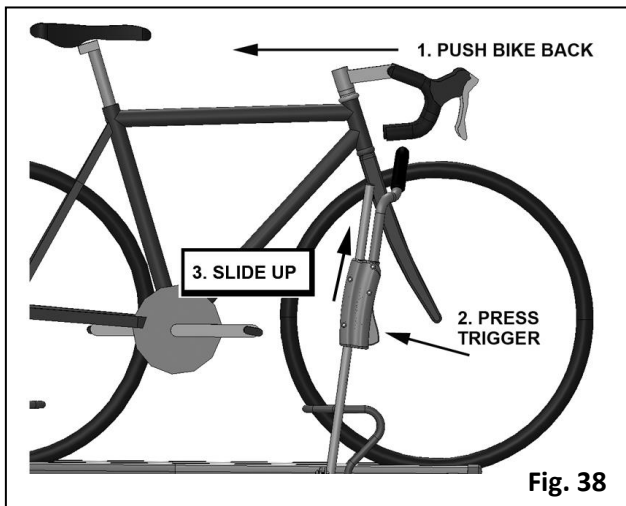
**Step 10: Loading and unloading bikes: (be sure front tire is fully inflated!)**

1. Rack should be in the user position with tire cage(s) rotated up in "user position". (Fig. 31)
2. Rotate ratchet post outwards until it stops, ratchet straps should be undone. (Fig. 32)
3. Lift bike and place the front wheel firmly against the inside of the tire cage. (Fig. 33)
4. Rotate ratchet post back towards the fork. The hook should be extended far enough up to clear the top of the tire.
5. Pull down on the ratchet handle to firmly engage the tire just in front of the fork. (Fig. 34)
6. Secure ratchet straps firmly on both front and rear wheels. Ratchet straps should be located below the axels or slightly closer to the center of the bike. (Fig. 35)
7. Repeat for second bike.

**Step 11: Unloading the bikes:** Undo the ratchet straps. Pull back on the bike to release tension on the tire hook. Engage the trigger on the ratchet post housing and slide the hook up by the housing, not the rubber coated tire hook. Rotate the post outwards to remove the bike. Repeat for the second bike. Rotate the tire cage(s) forward to its folded position and fold the rack up against the rear of the car. (Fig. 38, 39, 40)



**DOUBLE CHECK BEFORE DRIVING THAT HOOKS ARE FIRMLY ENGAGED AGAINST TIRE AND RATCHET WHEEL STRAPS ARE FIRMLY ATTACHED. DRIVE SLOWLY ON BUMPY OR DIRT ROADS. THIS PRODUCT IS NOT TO BE USED ON ANY TRAILER, FIFTH WHEEL OR TOWED VEHICLE.**



**Limited Lifetime Warranty (effective January 1, 2008):**

Hollywood Racks will warrant its car racks and accessories during the time that an original retail purchaser owns the product subject to the exclusions and limitations of this warranty. Hollywood Racks will remedy defects in materials and workmanship by repairing or replacing (at its option) a defective part without charge for labor or parts. Hollywood Racks may elect (at its option) to issue a refund equal to the purchase price paid for the product. This warranty does not cover problems caused by normal wear and tear including (but not limited to) weather, scratches, dents, rust, accidents, unlawful vehicle operation, misuse, abuse, neglect, theft, unauthorized modifications, or unauthorized repair. No warranty is given for defects resulting in incorrect assembly, incorrect installation onto the vehicle, installation on a "no fit" vehicle, incorrect attachment of bicycles onto the rack, or overloading of the rack's weight restrictions. This warranty terminates if the original retail purchaser transfers the product to any other person. If a product is believed to be defective, the original retail purchaser should contact either the original retailer or Hollywood Racks directly at 800-747-4085 or at [info@hollywoodracks.com](mailto:info@hollywoodracks.com) **Disclaimer of Liability:** Repair or replacement of a defective product or the issuance of a refund or credit (as determined by Hollywood Racks) is a purchaser's exclusive remedy under this warranty. Damage to a purchaser's vehicle, cargo, bicycles and or to any other person is excluded. This warranty is expressly made in lieu of any and all other express warranties, whether oral or written. Hollywood Racks shall not be liable for any direct, indirect, consequential, incidental, special, punitive or any other damages in connection with the purchase, use or handling of this product. Some states do not allow the exclusion or limitation of consequential or incidental damages and the above limitation may not apply to you. This warranty gives you specific legal rights and you have other rights, which vary from state to state.

**Hollywood Racks**

12812 South Spring Street Los Angeles, CA 90061 (800) 747-4085 (310) 516-8600 Fax (310) 516-8955  
 Customer Service Hours: 8:00 AM- 3:00 PM PST [www.hollywoodracks.com](http://www.hollywoodracks.com) [info@hollywoodracks.com](mailto:info@hollywoodracks.com)  
 Made in Taiwan

TRS V2c 1-06-17