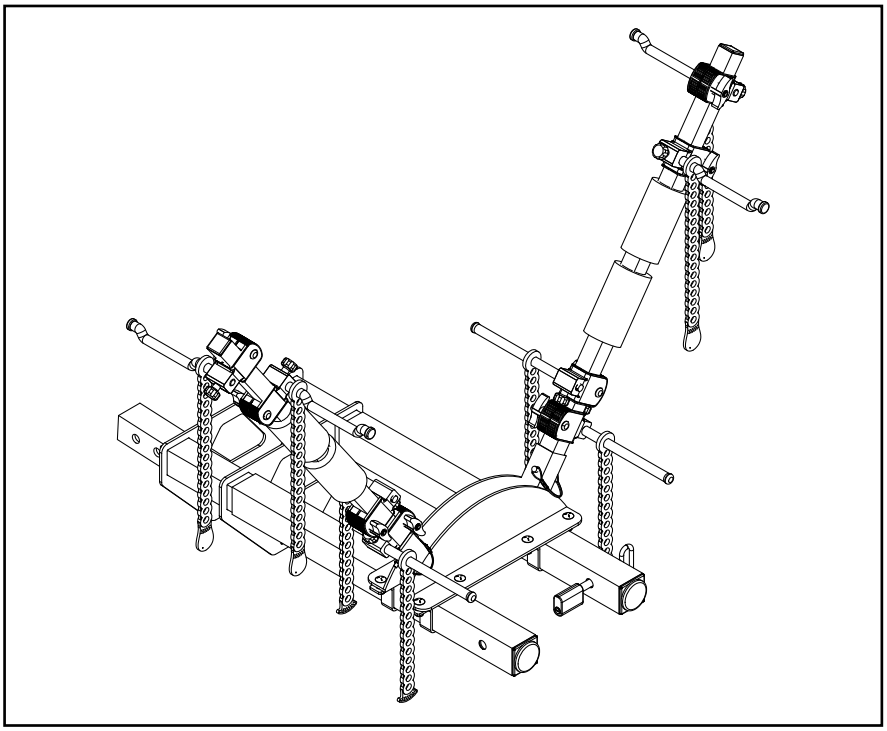
V-Lectric PRO 3.0 Bicycle Carrier

Two Bike Slideout Hitch Carrier
#B02615

PRODUCT MANUAL

ASSEMBLY, INSTALLATION, AND OPERATION INSTRUCTIONS

Maximum Load Weight Limit is 60 lbs per Bicycle/E-Bike.
2in Receiver Hitch with Class II Minimum Tow Rating Required. Fits Tire Sizes up to 4in and Minimum 22in Wheel Sizes. Rack Empty Weight is 80 lbs.



Watch the Assembly Video:

SCAN ME

LetsGoAero.com/Videos

MOTORIZED RV, TRAVEL TRAILER & 5th WHEEL APPROVED

For More Information & Accessories, Visit our Website - www.LetsGoAero.com
For Technical Support & Product Questions Contact Us at 877-464-2376 or 719- 630-3800
Email: Support@LetsGoAero.com

NOTICE: All Manual information is subject to change without notice. Revised editions will be available for free download at LetsGoAero.com. Manual information is considered factual until made obsolete by a revised version.

Follow this QR-Code or visit LetsGoAero.com/manuals to check for an updated version

PATENT PROTECTED
080924Rev

PARTS LIST

PARTS

QTY.		DESCRIPTION
A	1	TWINTUBE SPINE
B	2	LOCK & KEYS
C	1	5/8" SILENT HITCH PIN®
D	1	5/8" SILENT HITCH PIN WITH HANDLE
E	1	5/8" LOCK WASHER
F	1	5/8" FLAT WASHER
G	1	5/8" PLASTIC BUSHING
H	2	5/8" SPRING NUT
J	1	WAX
K	2	RUBBER BUMPER
L	2	END CAPS 2"
M	2	SLIDE TUBES
N	1	BASE
P	4	HAT BRACKETS
Q	8	5/16" X 1" CARRIAGE BOLTS

PARTS

QTY.		DESCRIPTION
R	1	SAFETY CABLE (W/ QUICK LINK)
S	2	REFLECTOR END CAPS, 2 1/4"
T	2	#10 K-LATH SCREWS
U	8	5/16" WASHERS
V	8	5/16" NYLOCK NUTS
W	4	STANDARD UPPER WHEEL CRADLE
X	4	FAT UPPER WHEEL CRADLE
Y	4	LOWER WHEEL CRADLE
Z	4	STANDARD RUBBER STRAP
AA	8	FAT RUBBER STRAP
BB	2	WING
CC	8	CRADLE HOUSING
DD	2	WIRE LOCK PIN
EE	1	CABLE
******	2	LARGE RETAINER CLIPS (OPTIONAL)

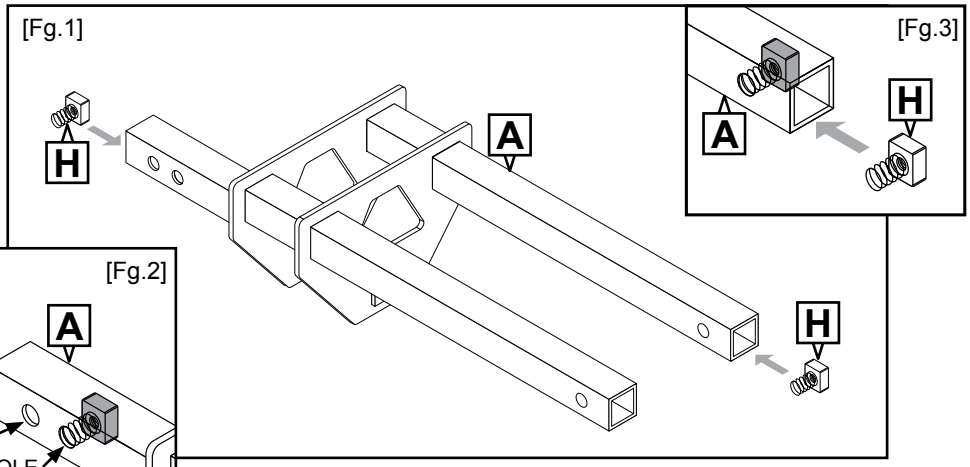
STEP 1

Remove the Spring Nuts **[H]** from the Silent Hitch Pins **[C & D]** and install the Spring Nuts into the TwinTube Spine **[A]** as shown. [Fg.1-3]

The shank tube end contains two mounting holes. [Fg.2] Use the second hole in from the end. If more clearance is needed, use the first hole in from the end.

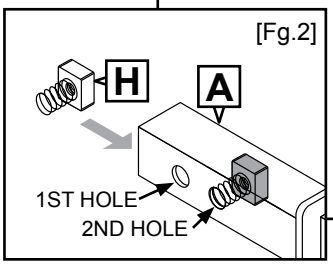
NOTE: User may choose either Twintube hole opposite the shank end.

[Fg.1]



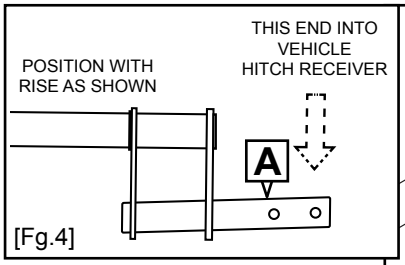
[Fg.3]

[Fg.2]



STEP 2 REQUIRED TOOL: 7/8" WRENCH

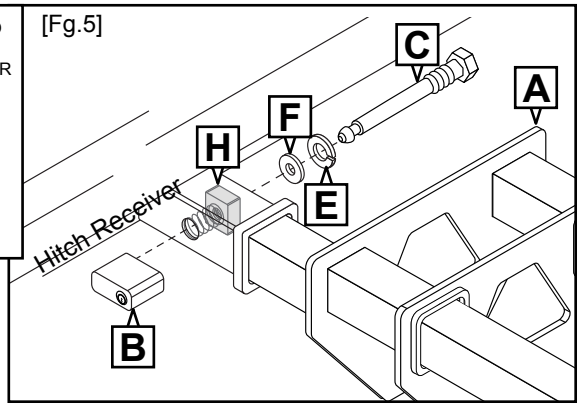
Slide the TwinTube **[A]** shank into the receiver with the 5 inch rise positioned above the hitch as shown. Align the mounting hole with Spring Nut **[H]** installed in the receiver hitch. [Fg.4]



[Fg.4]

Insert the Silent Hitch Pin **[C]** with 5/8in Lock Washer **[E]** & Flat Washer **[F]** into the receiver hole and thread through the Spring Nut **[H]** as shown. Tighten (30 ft.lbs. torque) and secure with Lock **[B]**. [Fg.5]

[Fg.5]



NOTE: Optional Large Retainer Clips **[**]** can be used instead of the Lock **[B]** if you choose not to lock your carrier.

CAUTION: Be sure to review **LOAD FORCE GUIDELINES** for load weight parameters and reduction factors associated with distance of carrier from hitch.

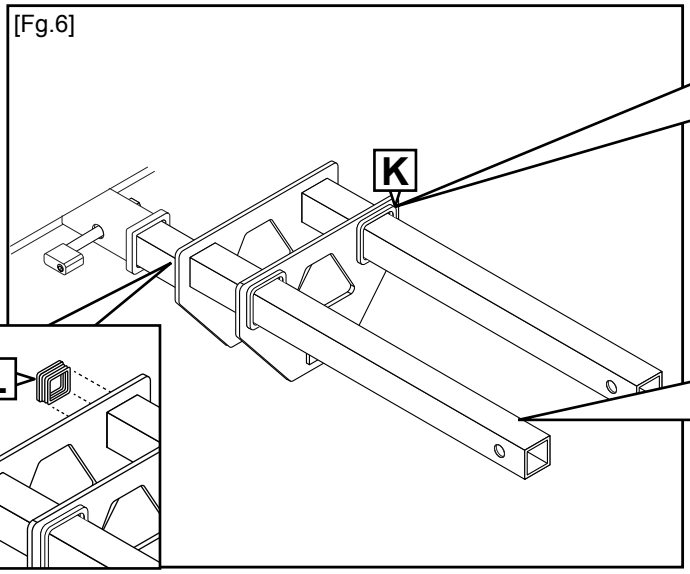
STEP 3

Rub the Wax Block **[J]** over all four sides of the TwinTube **[A]** Spine's dual tubes. [Fg.6,8]

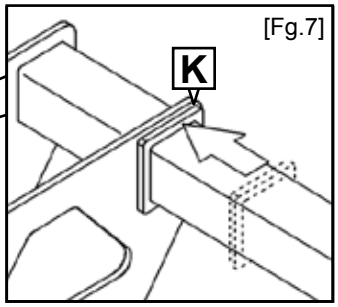
Install two Rubber Bumpers, **[K]** with one onto each fixed tube of the TwinTube **[A]**. [Fg.6,7]

Install two 2" End Caps **[L]** into the back side of the TwinTube **[A]** plates, if not already done. [Fg.9]

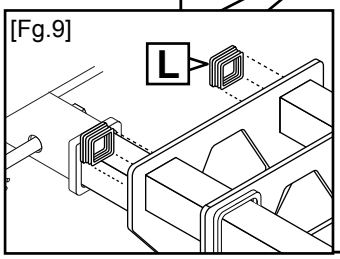
[Fg.6]



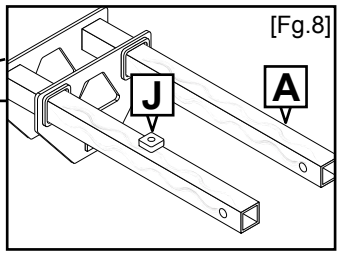
[Fg.7]



[Fg.9]



[Fg.8]

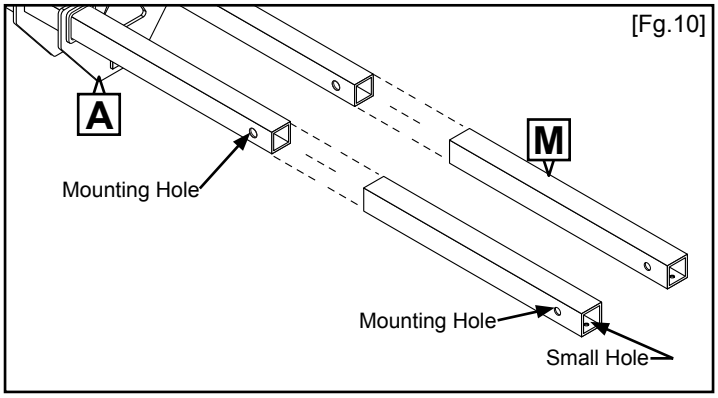


STEP 4

Insert the Slide Tubes **[M]** onto the fixed tubes of the TwinTube **[A]** Spine. [Fg.10]

Be sure that the mounting holes on the TwinTube **[A]** and Slide Tubes **[M]** align and that the small hole at the end of tube is facing down.

[Fg.10]



STEP 5 REQUIRED TOOL: 1/2" WRENCH

Set the Base **[N]** on top of the Slide Tubes **[M]**.

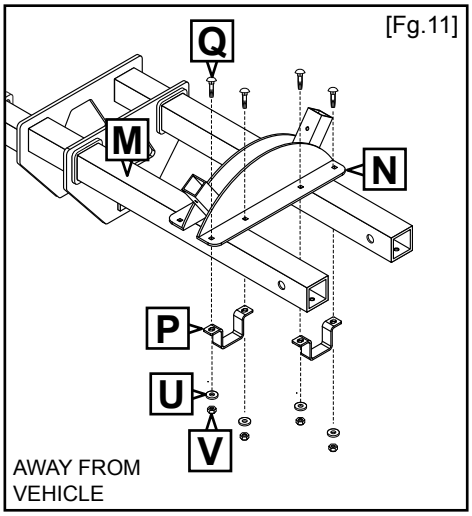
NOTE: This position will determine how far the bicycles will be mounted from the vehicle.

Install two (2) Hat Brackets **[P]** from underneath Slide Tubes **[M]** (one Hat Bracket per Slide Tube) so the Hat Brackets wrap around the Slide Tubes and align with the holes on the side of the Base **[N]** ***facing away from the vehicle*** as shown.

Using two (2) 5/16in Carriage Bolts **[Q]**, two (2) 5/16in Carriage Washers **[U]**, and two (2) 5/16in Nylock Nuts **[V]** per Hat Bracket **[P]** connect the Hat Brackets to the Base **[N]** as shown [Fg.11].

IMPORTANT: Hand-Tighten only at this time, further adjustment will be required before final assembly.

[Fg.11]

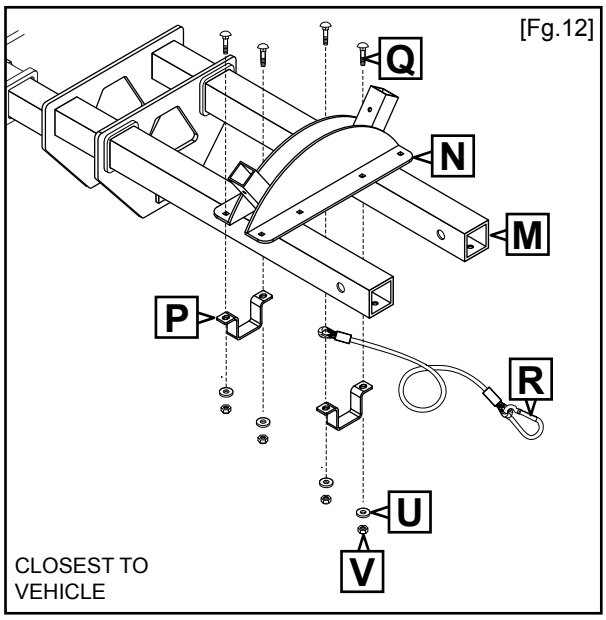


STEP 6 REQUIRED TOOL: 1/2” WRENCH

On the side of the base that is closest to the vehicle, in the same manor as STEP 5, attach the remaining Hat Brackets Assemblies **[P, Q, U, V]** to the Base **[N] adding** the “looped end” of the Safety Cable **[R]** between the Hat Bracket and Base **[N]** on one side only [Fg.12].

IMPORTANT: The Safety Cable **[R]** must be placed on the interior of the Slide Tube [**M**] and on the side of the Base **[N]** that is closest to the vehicle.

Hand-Tighten only at this time, further adjustment will be required before final assembly.

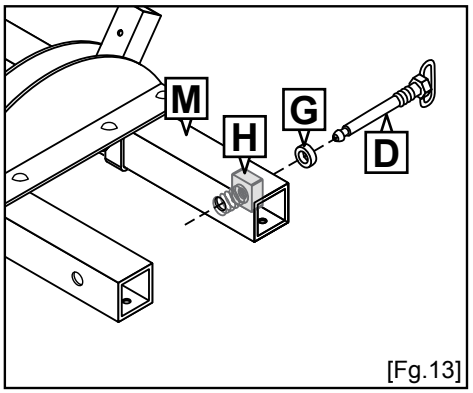


[Fg.12]

STEP 7

With the Slide Tubes fully **[M]** installed on the TwinTube Spine **[A]** and rear holes on tubes lined up, insert the Handle Silent Hitch Pin with Plastic Bushing through the end with Spring Nut installed in STEP 2, engage threads and tighten firmly. [Fg.13]

NOTE: The Silent Hitch Pin with Handle **[D]** controls the slide-out function of the platform. Once installation is complete, the Hand-Tighten Silent Hitch Pin may be removed in order to slide the carrier rearward for rear hatch access when vehicle is stationary.



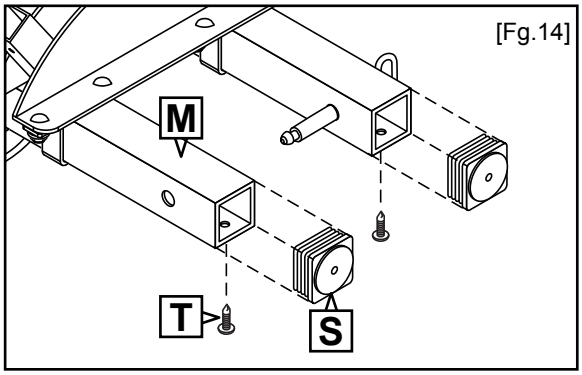
[Fg.13]

⚠WARNING:

Never operate vehicle without the Silent Hitch Pin with Handle fully secured. Failure to follow proper procedures may result in bodily injury and property damage.

STEP 8 REQUIRED TOOL: PHILLIPS HEAD BIT & DRILL

Install the Reflector End Caps **[S]** over both ends of each Slide Tube **[M]** and secure with one (1) #10 K-Lath Tex Screw **[T]** each. [Fg.14]



[Fg.14]

STEP 9

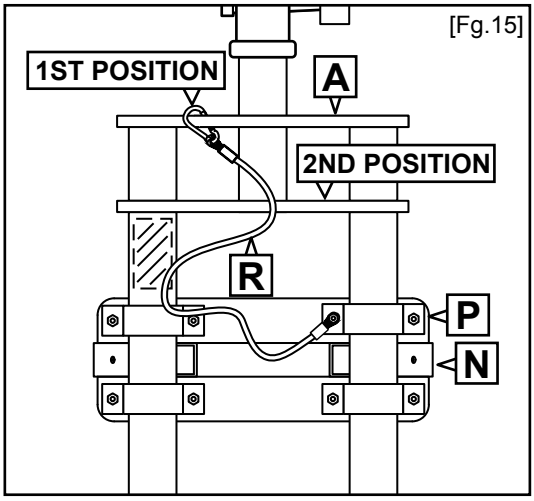
Attach the carabiner to the Safety Cable **[R]** (if not already pre-installed). From underneath the carrier, connect the quick-link end of the Safety Cable **[R]** to the hole in the frame of the TwinTube **[A]**. [Fg.15]

NOTE: The Safety Cable **[R]** can be secured in two positions. Secure the Safety Cable to the first position. For maximum installed clearance needs, the second position may be used.

With the Hat Brackets **[P]** from STEP 5 & 6 still loosely secured, adjust the Base **[N]** back and forth along the Slide Tubes **[M]** to adjust for required user application and vehicle clearances. **Tighten the bolts on the Hat Brackets [P] firmly once determined.**

IMPORTANT: The Base **[N]** must be positioned forward of the Handle Silent Hitch Pin location (close to vehicle). Be sure to allow room for the Pin handle to turn and operate as required.

[Fg.15]



⚠ WARNING:

DO NOT ALLOW HAT BRACKETS [P] TO OVERLAP THE WARNING LABEL LOCATED ON THE SLIDE TUBE. Failure to do so may permit over-extension of the Safety Cable allowing the Slide Tubes to come off and cause damage or personal injury.

⚠ WARNING:

Never operate the carrier's slide-out function without confirming the Safety Cable **[R]** is fully secured. Failure to follow proper procedures may result in bodily injury and property damage.

STEP 10:

Using one (1) Wing **[BB]**, slide both foam bumpers to the center of the Wing.

Loosen handles on each Cradle Housing **[CC]**. Slide two (2) Cradle Housings **[CC]** above the foam bumpers and two (2) Cradle Housings **[CC]** below the foam bumpers.

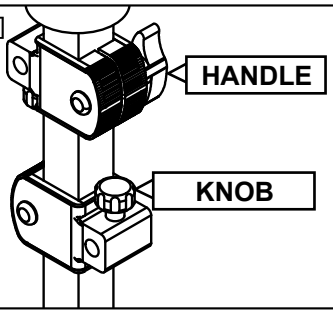
NOTE: The Knobs located on each Cradle Housing **[CC] MUST** rest along the same sides as the connection hole located at the bottom of the Wing. [Fg. 16]

NOTE: Position the Cradle Housing so the Knobs alternate direction as shown.

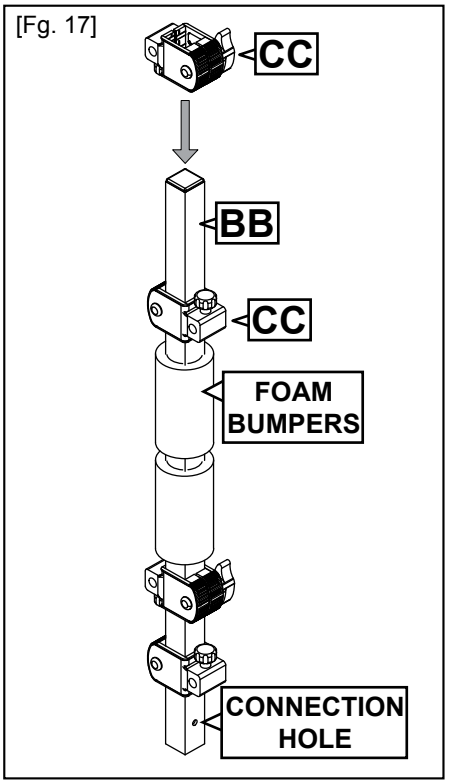
Retighten each Cradle Housing handle to secure in place on the Wing. [Fg. 17]

Repeat this step for the second Wing.

[Fg. 16]



[Fg. 17]

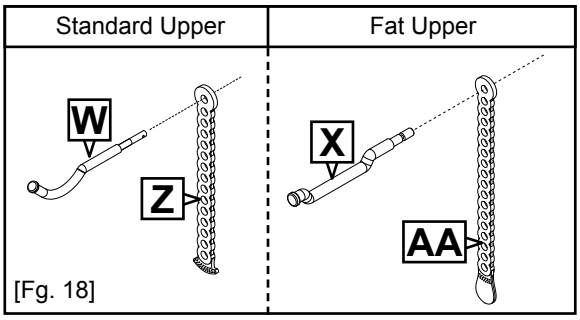


STEP 11:

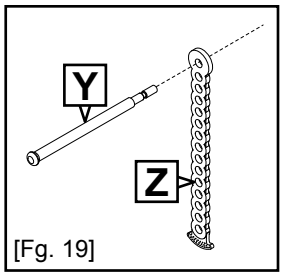
NOTE: Upper Cradles **[W or X]** for both Standard and Fat Bikes are provided. Install the Upper Cradles that best fit your bikes.

Slide the round end of one (1) Rubber Strap **[Z or AA]** onto each Upper Wheel Cradle **[W or X]** and Lower Cradle **[Y]**. [Fg. 18 & 19]

NOTE: Be sure to slide the Rubber Straps **[Y]** so that it tightly rests *over* the plastic coating.



[Fg. 18]



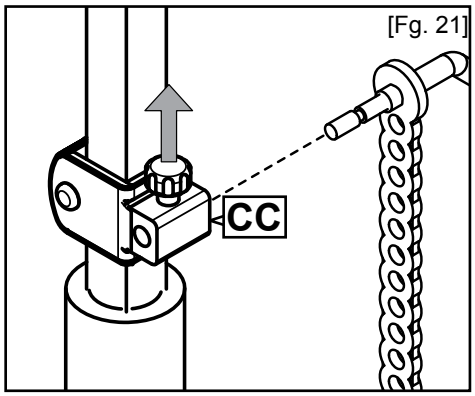
[Fg. 19]

STEP 12:

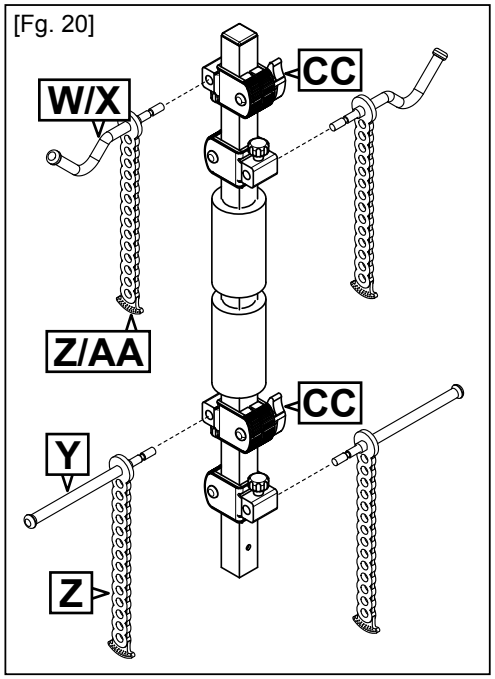
Pull out the Knobs (don't twist) located on the two (2) Cradle Housing **[CC]** installed ***above*** the foam bumpers on each Wing **[BB]** and insert two (2) Upper Wheel Cradles **[W or X]** with Rubber Straps **[Z or AA]** facing in opposite directions as shown. [Fg. 19 & 20]

Install two (2) Lower Wheel Cradles **[Y]** with Rubber Straps **[Z]** facing in opposite directions in the same manner as shown. [Fg. 20-21]

Watch video for more information on proper cradle installation.



[Fg. 21]



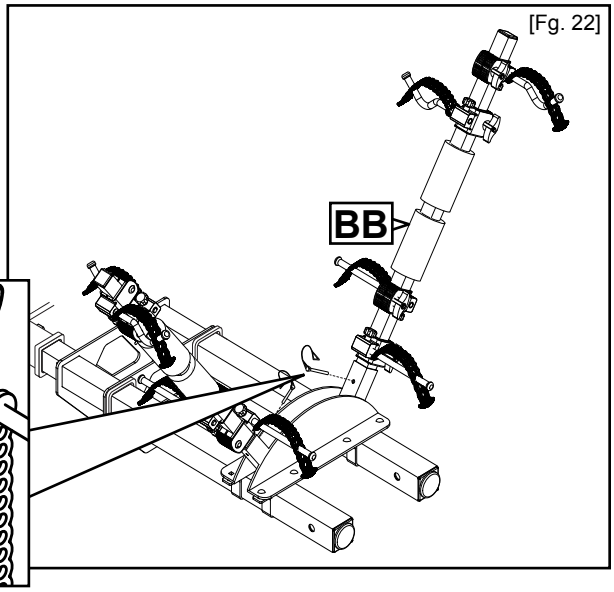
[Fg. 20]

STEP 13:

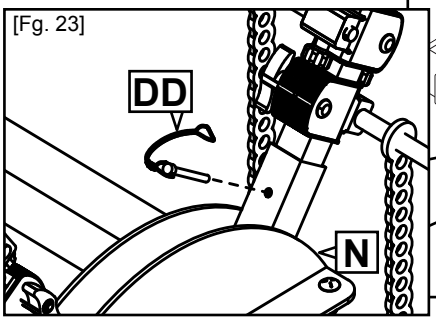
Slide both Wings **[BB]** into the tubes located on the Base **[N]** aligning the holes at the bottom of the Wing with holes on the Base.

Thread one (1) Wire Lock Pin **[DD]** into the holes located on each Base **[N]** port securing the Wings to the Base **[N]**. [Fg. 22 & 23]

NOTE: The Wire Lock Pin **[DD]** **MUST** always be threaded through the hole in the Base **[N]** from inside the Base as shown.



[Fg. 22]



[Fg. 23]

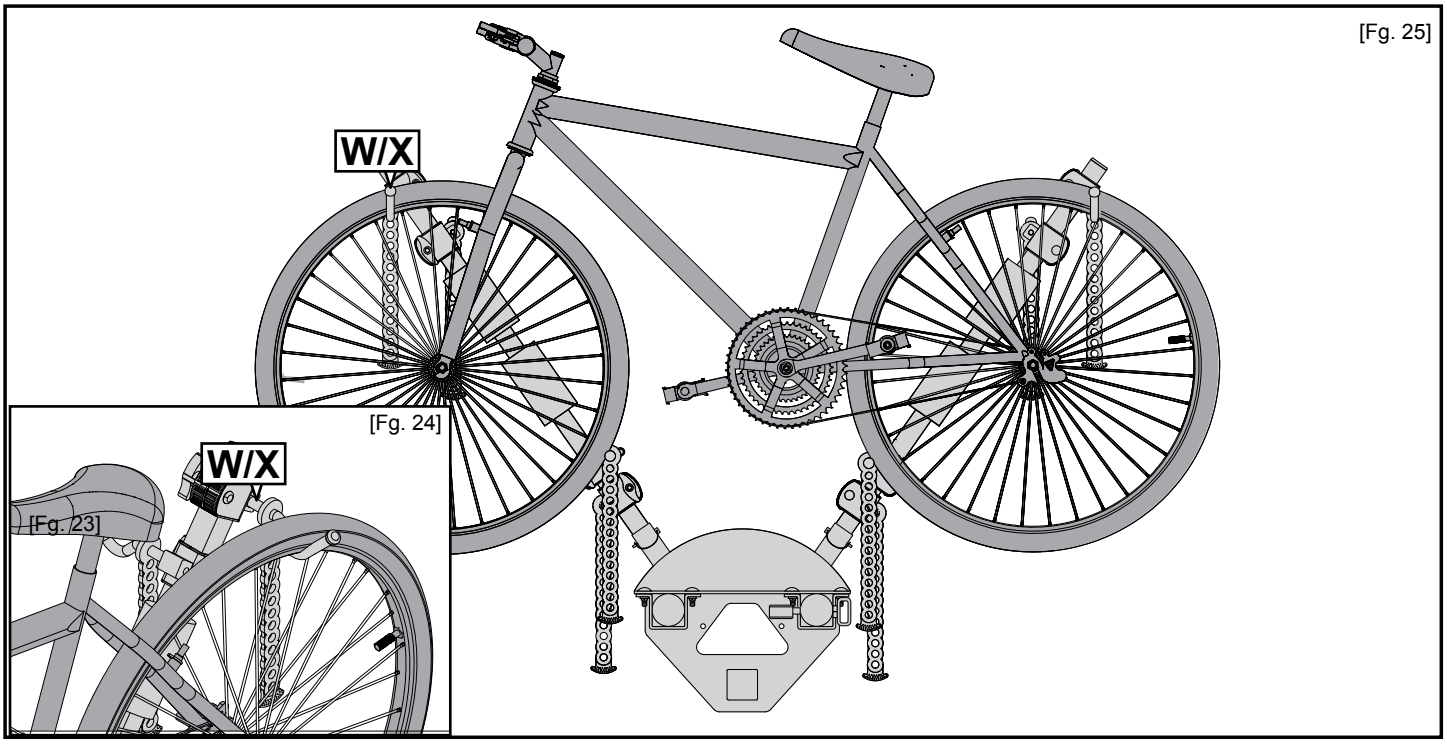
OPERATION: BICYCLE MOUNTING

Hang bicycles by the tires on the Upper Wheel Cradles **[W or X]** with the chain rings to the outside. [Fg. 24 & 25]

Adjust the Foam Bumpers located on the Wings **[BB]** to protect the frame of the bicycle.

IMPORTANT: For two bicycles, position the bicycles facing in opposite directions (front-to-back/back-to-front) **with the chain ring to the outside**.

[Fg. 25]

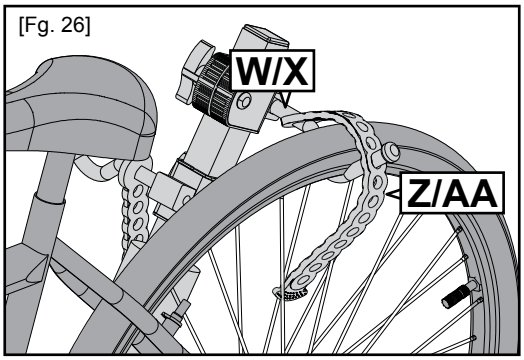


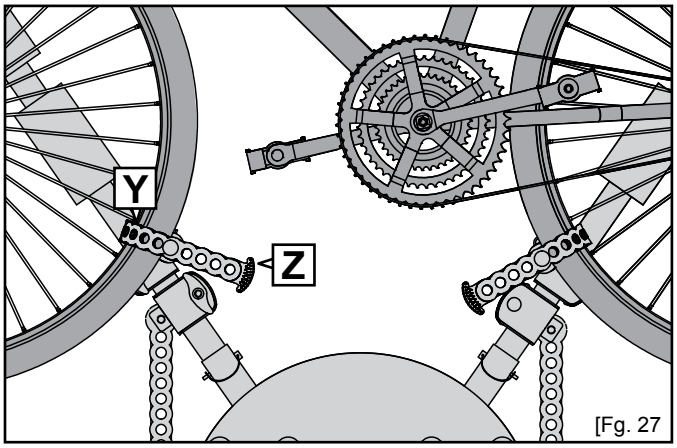
Secure Rubber Straps **[Z or AA]** onto Upper Wheel Cradles **[W or X]** using the tightest hole available. [Fg. 26]

Slide the Lower Wheel Cradle **[Y]** to meet the bottom/side of the bicycle tire. Secure using the same technique as the Upper Wheel Cradles. [Fg. 27 & 28]

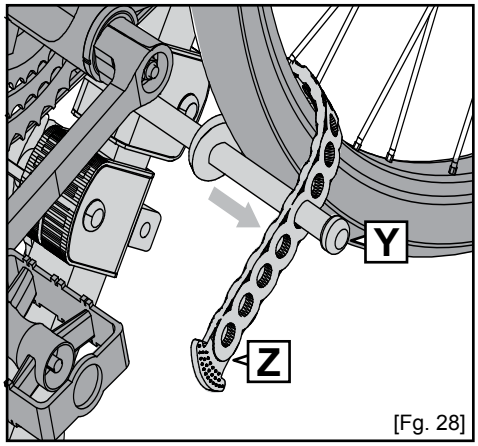
TIP: Pull the Rubber Straps **[Z]** to the outside edge of the Lower Cradle **[Y]** to position bicycles wheels so the frame of the bicycle is pulled away from the Wings **[BB]** for wheel touch only performance. [Fg. 28]

[Fg. 26]





[Fg. 27]



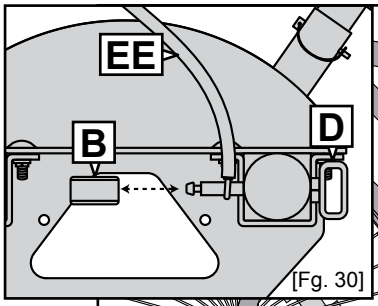
[Fg. 28]

Two Lower Wheel Cradles **[Y]** are recommended for a complete four point connection, only one (on the front tire of the bicycle) is required.

LOCKING BICYCLES

Wrap the Cable **[EE]** around the bicycle frame and slide the small loop through the large loop on the Cable to create a closed loop around the bicycle. [Fg. 30]

Secure the the small loop of Cable **[EE]** onto the Silent Hitch Pin with Handle **[D]** and apply the Lock **[B]**. [Fg. 29 & 30]



[Fg. 30]

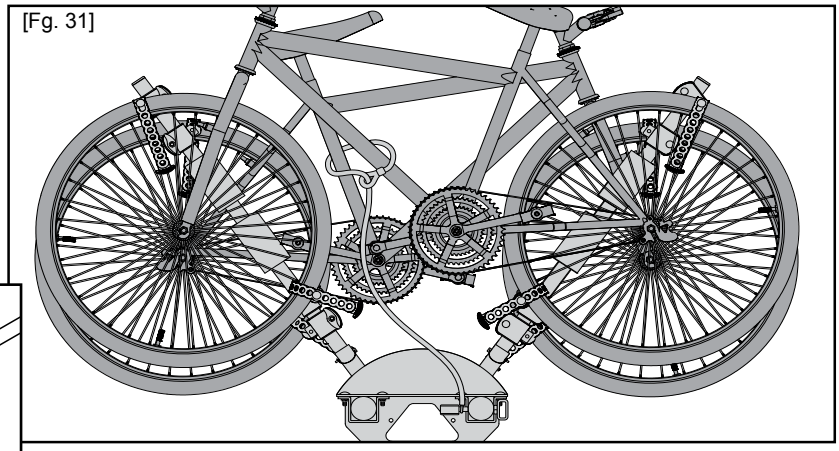
[Fg. 29]

ADJUSTING POSITION OF BICYCLES

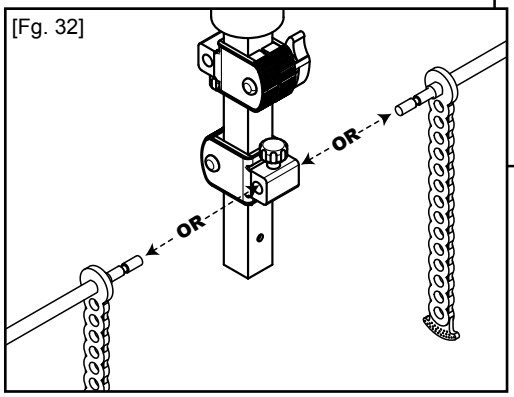
To accommodate varying bike sizes, slide the cradle along the wings and re-tighten. [Fg. 31]

BIKE FIT TIP: Lower Wheel Cradles **[Y]** can be easily reversed to the opposite side of their housing for quick adjustability once bikes are suspended from the Upper Wheel Cradles. [Fg. 32]

[Fg. 31]



[Fg. 32]



SLIDE-OUT OPERATION

To telescope the V-Lectric, remove the Silent Hitch Pin **[D]** with Handle from the Slide Tube's **[M]** Safety pin hole. Verify that the Safety Cable is secured and then slide the frame to the rear. Operate slide-out only when stationary.

⚠ WARNING:

Be sure the Silent Hitch Pin is full tightened on the hitch and that the Hand-tighten Silent Hitch Pin is snug before transit. Always check and confirm all bolts and connections are tight and fully secure before each transit. Failure to follow proper installation and equipment checks before transit may result in damage to carrier, damage to property, bodily injury or death.

⚠ WARNING:

Always secure each bicycle with at least three connection points (two Upper Wheel Cradles & one Lower Cradle on the front tire). Do not operate the vehicle unless these connection points are tight and secured. Failure to follow bicycle mounting procedure may result in damage to carrier, damage to property, bodily injury or death.

Let's Go Aero Enclosed Carrier, Cargo & Bike Rack Guidelines

Use of third party accessories with Let's Go Aero cargo carriers will lead to the lapsing of Let's Go Aero's warranty and liability for any material damage or accidents. This includes, but not limited to, the use of hitch adaptors and extensions, wheel covers or full bike covers.

Let's Go Aero carrier accessories are warrantied for use only with Let's Go Aero products.

Do not use Let's Go Aero carriers and accessories for purposes other than those for which they were designed.

Let's Go Aero products are rated for use with vehicle frame-based receiver style hitches only; other surfaces (ie bumper mount) constitutes improper use and will void Let's Go Aero warranty.

Carriers with slide-out function may only be operated with vehicle is parked.

Periodically wash all surfaces of your carrier to clean, removal when not in use is recommended to help preserve metal surface finishes.

Locks should be removed and lubricated periodically to ensure smooth operation. Use graphite or dry lubricant to facilitate.

Secure all loads using the provided straps.

Carry the heaviest gear/bike nearest to the vehicle; center load near its center of gravity.

Check bolts, fittings, and straps before each use and during travel.

Do not position cargo carrier and/or bicycle tires directly in back of your vehicle's hot exhaust; keep gear away from vehicle exhaust trajectory.

Permitted roadways entail highway and improved roads (forest service access roads or other non-technical terrains) only. Moderate speeds when on improved roads.

Do not exceed the maximum load specified in the assembly instructions; however, this limit is always subordinate to the maximum load recommended by the manufacturer of the vehicle itself. Your hauling weight may be limited by your vehicle's capacity to carry a load and your vehicle's suspension. In addition, load forces may minimize the payload capacity to keep in mind. Be sure to refer to the information regarding your specific vehicle, and Load Force Guidelines.

Let's Go Aero One-Year Limited Warranty

For warranty coverage and limitations details, review manual guidelines and visit LetsGoAero.com/pages/lets-go-aero-warranty.

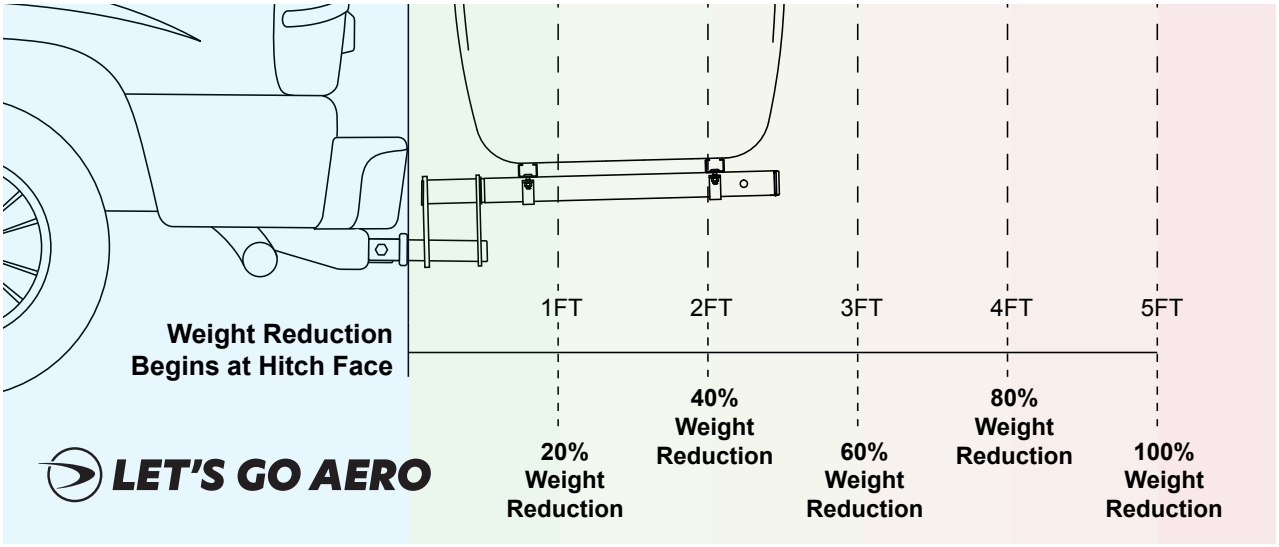
LOAD FORCE GUIDELINES FOR HITCH RACKS

Let's Go Aero hitch racks carry a maximum payload as published in their product manuals. Furthermore, there are other factors for consideration including the vehicle's load weight rating and load forces that may minimize the user's payload capacity to keep in mind.

Let's Go Aero racks are only intended for use with 2 inch receiver style hitches mounted to a vehicle frame. Use of hitch adaptors or extensions will change the load forces affecting the carrier, hitch and vehicle. Review the LOAD FORCE GUIDE below for weight carrying guidance.

A hitch rack attached to a hitch receiver applies a leveraged load force to the hitch and vehicle frame. The leveraged load force increases as the carrier and its load shifts rearward from the hitch face. Let's Go Aero's hitch racks position this load approximately 18" rearward of the hitch face. When Let's Go Aero's cargo carriers are used with hitches that have load carrying limits of less than 750 pounds, the full 300 pound load rating may not be useable.

Center of Gravity 20% Rule
For each one foot rearward of the hitch face, the loading carrying ability of the hitch is reduced 20%.



The chart below is a hitch load carrying recommendation for each of Let's Go Aero's four enclosed cargo carrier models on 2 inch hitches having load carrying ratings of 350, 500, and 750 (based on an estimated load center of gravity at 18in from the hitch face):

	Max Payload Weight (Net Weight Capacity)		
Carrier Empty Weight	**Class II 350lbs Max**	**Class III 500lbs Max**	**Class IV 750lbs Max**
GearCage - 90 Lbs	155 lbs	260 lbs	300 lbs
V-Lectric VFR - 85 Lbs	80 lbs per bike	80 lbs per bike	80 lbs per bike
V-Lectric 3.0 - 80 Lbs	60 lbs per bike	60 lbs per bike	60 lbs per bike
TriQuad - 77 Lbs	75 lbs per bike	75 lbs per bike	75 lbs per bike

About Slide-Out Functionality
Ease of slide out diminishes if load is off center, and the closer to maximum weight capacity use.