

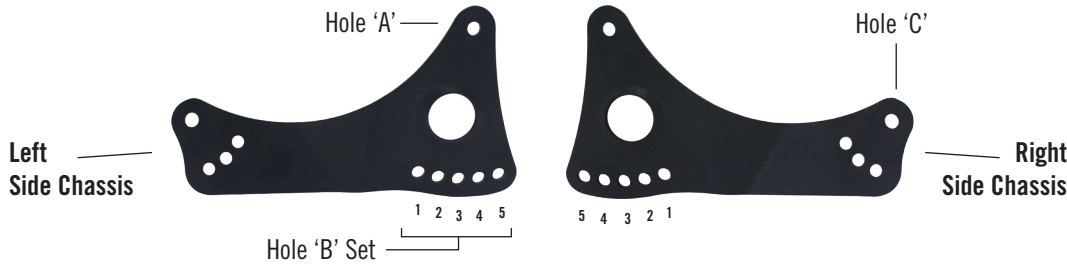


## INSTALLATION INSTRUCTIONS

### IMPORTANT:

PLEASE COMPLETELY UNDERSTAND ALL USER INSTRUCTIONS AND SAFETY INFORMATION BEFORE USING THIS PRODUCT. AS WITH ANY HI TECH PRODUCT YOU WILL NEED TO ROUTINELY CHECK FOR LOOSE HARDWARE, CRACKS OR OTHER DAMAGE AND REPLACE ITEMS AS NECESSARY. DO NOT USE PRODUCT IF ANY OF THESE CONDITIONS EXIST.

### HARDWARE INCLUDED



### TOOLS REQUIRED:

- 4 mm non-ball ended Hex wrench
- 8 mm open ended wrench
- Torque wrench up to 4.0 Nm (35 in-lbs)



### IMPORTANT:

**Loctite:** The Loctite on the threads will harden over 24 hours. You can still remove the screws in the future, but the Loctite is a one-time use. You can purchase replacement screws with Loctite separately.

**Carbon Rails:** For 7 mm x 9 mm oval-shaped carbon rails, a carbon rail adapter kit, is required for installation and can be purchased separately.

### WHERE TO START:

**Version:** The Turbo Wing is available in 3 versions, Turbo Wing Carrier (pages 1 - 2), Turbo Wing System - Xenon (page 2), and Turbo Wing System - Gorilla (page 2- 3). For installation procedure, please refer to the applicable section.

**Cage Hardware:** For installing the **GORILLA** cage use the Gorilla Cage Mounting Hardware. For installing the **XENON** cage use the Xenon Cage Mounting Hardware. If using different cages, the Gorilla Cage Mounting Hardware is the default option, but if the mounting bolts are too short for your cage, you may use the Xenon Cage Mounting Hardware.

**Optional Storage Bag:** Before installation, determine if you will be using a bag with the included straps. If yes, please go to that specific section for installation instructions.

## TURBO WING CARRIER

### Installing the TURBO WING CARRIER with a bag at the rear:

- Place an M5 x 12 mm Socket Head Bolt through an M5 Flat Washer, through the top hole in the cage, through Hole 'A' in the **TURBO WING** chassis and then through the eyelet in the **X-STRAP**. Thread into one of the stabilizers. Hand tighten. (**Figure 1**)
- Decide the angle you would like to have your bottle cages by selecting one of the holes in the Hole 'B' set on the bottom of the chassis (**Figure 2**)
- Place an M5 x 12 mm Socket Head Bolt through an M5 Flat Washer, through the bottom hole in the cage, your Hole 'B' choice in the **TURBO WING** chassis, the eyelet in the **X-STRAP** and into the 2nd stabilizer. Hand tighten. (**Figure 3**)



**NOTE:** If you decide to use the 1st or 2nd hole from the left for the cage, the lower X-STRAP will be too short to reach around a bag. If this is the case use the extra bolt set and install the strap utilizing hole number 4 on the right side of the chassis. In addition, use 2 M5 Flat Washers on the cage bolt.

4. Repeat steps 1-3 on the other side, minus the **X-STRAPS** which are now installed.
5. Tighten each of the four bolts by holding the stabilizer with the 8 mm wrench and tightening the bolts to 4.0 Nm (35 in-lbs) your setup should look like. **(Figure 4)**



## Installing the TURBO WING CARRIER with no bag at the rear:

1. Place an M5 x 12 mm Socket Head Bolt through two (2) M5 Flat Washers, through the top hole in the cage, through Hole 'A' in the **TURBO WING** chassis. Thread into one of the stabilizers and hand tighten. **(Figure 1)**
2. Decide the angle you would like to have your bottle cages by selecting one of the holes in the Hole 'B' set on the bottom of the chassis **(Figure 2)**
3. Place an M5 x 12 mm Socket Head Bolt through two (2) M5 Flat Washer, through the bottom hole in the cage, your Hole 'B' choice in the **TURBO WING** chassis. Next thread into the second stabilizer and hand tighten. **(Figure 3)**
4. Repeat steps 1-3 on the other side
5. Tighten each of the four bolts by holding the stabilizer with the 8 mm wrench and tightening the bolts to 4.0 Nm (35 in-lbs)



## TURBO WING SYSTEM - XENON

### Installing the TURBO WING SYSTEM - XENON with a bag at the rear:

1. Place an M5 x 18 mm Button Head Bolt through the top hole in the **XENON** cage, through Hole 'A' in the **TURBO WING** chassis and then through the eyelet in the **X-STRAP**. Thread into one of the stabilizers and hand and tighten. **(Figure 1)**
2. Decide the angle you would like to have your bottle cages by selecting one of the holes in the Hole 'B' set on the bottom of the chassis. **(Figure 2)**
3. Place an M5 x 18 mm Button Head Bolt through the bottom hole in the **XENON** cage, your Hole 'B' choice in the **TURBO WING** chassis, the eyelet in the **X-STRAP** and into the 2nd stabilizer. Hand tighten. **(Figure 3)**

**NOTE:** If you decide to use the 1st or 2nd hole from the left for the cage, the lower X-STRAP will be too short to reach around a bag. If this is the case use the extra bolt set and install the strap utilizing hole number 4 on the right side of the chassis. In addition, use 2 M5 Flat Washers on the cage bolt.

4. Repeat steps 1-3 on the other side, minus the **X-STRAPS** which are now installed.
5. Tighten each of the four bolts by holding the stabilizer with the 8 mm wrench and tightening the bolts to 4.0 Nm (35 in-lbs)



### Installing the TURBO WING SYSTEM - XENON with no bag at the rear:

1. Place an M5 x 18 mm Button Head Bolt through one (1) M5 Flat Washer, the top hole in the **XENON** cage, and through Hole 'A' in the **TURBO WING** chassis. Thread into one of the stabilizers and hand tighten. **(Figure 1)**
2. Decide the angle you would like to have your bottle cages by selecting one of the holes in the Hole 'B' set on the bottom of the chassis. **(Figure 2)**
3. Place an M5 x 18 mm Button Head Bolt through one (1) M5 Flat Washer, the bottom hole in the **XENON** cage, and your Hole 'B' choice in the **TURBO WING** chassis. Thread into the second stabilizer and hand tighten. **(Figure 3)**
4. Repeat steps 1-3 on the other side
5. Tighten each of the four bolts by holding the stabilizer with the 8 mm wrench and tightening the bolts to 4.0 Nm (35 in-lbs)

## TURBO WING SYSTEM - GORILLA

### Installing the TURBO WING SYSTEM - GORILLA with a bag at the rear:

1. Place an M5 x 12 mm Socket Head Bolt through one (1) M5 Flat Washer, through the top hole in the GORILLA cage, through Hole 'A' in the **TURBO WING** chassis and then through the eyelet in the **X-STRAP**. Thread into one of the stabilizers. Hand tighten. **(Figure 1)**
2. Decide the angle you would like to have your bottle cages by selecting one of the holes in the Hole 'B' set on the bottom of the chassis **(Figure 2)**
3. Place an M5 x 12 mm Socket Head Bolt through one (1) M5 Flat Washer, through the bottom hole in the Gorilla cage, your Hole 'B' choice in the **TURBO WING** chassis and then through the eyelet in the **X-STRAP**. Thread into the second stabilizer. Hand tighten. **(Figure 3)**

**NOTE:** If you decide to use the 1st or 2nd hole from the left for the cage, the lower X-STRAP will be too short to reach around a bag. If this is the case use the extra bolt set and install the strap utilizing hole number 4 on the right side of the chassis. In addition, use 2 M5 Flat Washers on the cage bolt.

4. Repeat steps 1-3 on the other side, minus the X-STRAPS which are now installed.
5. Tighten each of the four bolts by holding the stabilizer with the 8 mm wrench and tightening the bolts to 4.0 Nm (35 in-lbs) your setup should look like. (Figure 4)

## Installing the TURBO WING SYSTEM - GORILLA with no bag at the rear:

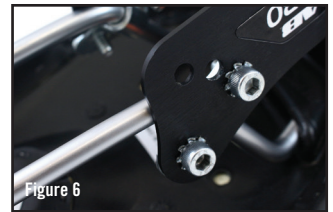
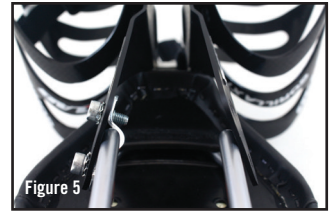
1. Place an M5 x 12 mm Socket Head Bolt through two (2) M5 Flat Washers, through the top hole in the Gorilla cage, and through Hole 'A' in the TURBO WING chassis. Then thread into one of the stabilizers. Hand tighten. (Figure 1)
2. Decide the angle you would like to have your bottle cages by selecting one of the holes in the Hole 'B' set on the bottom of the chassis (Figure 2)
3. Place an M5 x 12 mm Socket Head Bolt through two (2) M5 Flat Washers, through the bottom hole in the Gorilla cage, and your Hole 'B' choice in the TURBO WING chassis. Then thread into the second stabilizer. Hand tighten. (Figure 3)
4. Repeat steps 1-3 on the other side
5. Tighten each of the four bolts by holding the stabilizer with the 8 mm wrench and tightening the bolts to 4.0 Nm (35 in-lbs)

## ATTACHMENT TO THE SADDLE RAILS

**IMPORTANT:** Never install the 'U' shaped clips on the corner of the rails as doing so may cause the carrier to slip. Instead install the carrier on the rails that extend down from the saddle to the first bend.

The front of the two TURBO WING chassis sits on the outside of the saddle rails.

1. Place an M5 x 12 mm Socket Head Bolt through an M5 External Lock Washer, TURBO WING Chassis (Hole 'C' the largest of the four holes) and thread it into the 'U' shaped saddle clip. Repeat on the opposite side. Do not tighten down. (Figure 5)
2. The other end of the 'U' shaped saddle clip should line up with one of the three remaining holes in the TURBO WING chassis. Place an M5 x 12 mm Socket Head Bolt through an M5 External Lock Washer, through this hole, and thread it into the 'U' shaped saddle clip. Repeat on the opposite side. (Figure 6)
3. Tighten all four bolts to 4.0 Nm (35 in-lbs) of torque.



## ATTACHING A MINI BAG

1. Line up the MINI BAG vertical between the cages and place the bottom X-STRAP over the bottom portion of the bag. (Figure 7)
2. Take the bottom strap and feed it through the buckle and strap it down loosely. Next take the top X-STRAP, place it over the top portion of the bag, and feed the strap through the buckle and loosely strap it down. Adjust the bag to make sure it is vertically straight, and then go back and tighten the straps. TIP tuck zipper pull down so that it is not flapping in the wind. Bag strap can either be cut off or tucked in underneath. (Figure 8)



## ATTACHING A MEZZO BAG

1. With your saddle upside down on a flat surface, place the MEZZO BAG horizontal underneath the TURBO WING with the external pocket facing out. (Figure 9)
2. Unbuckle the MEZZO BAG strap. Thread both sides of the strap underneath the TURBO WING, and through the gap between your saddle and the TURBO WING. Fasten the buckle, then tighten strap as needed. (Figure 10)
3. Take the bag's front strap and fasten it around the seat post. Make sure the strap is tight. (Figure 11)



## WARRANTY

**TURBO WING** – Limited 3 Year Warranty. See website for more details.

**GORILLA CAGE** – Limited Lifetime Warranty. See website for more details.

**XENON CAGE** – Limited 3 Year Warranty. See website for more details.

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