

Introduction

Congratulations on your Vision product. Please read these instructions and follow them for correct use. Failure to follow the warnings and instructions could result in damage to product not covered under warranty, damage to bicycle; or cause an accident resulting in injury or death. Since specific tools and experience are necessary for proper installation, it is recommended that the product be installed by a qualified bicycle technician. FSA & Vision assumes no responsibility for damages or injury related to improperly installed components.

Warranty

Full Speed Ahead (FSA) warrants all FSA and Vision products to be free from defects in materials or workmanship for a period of two years after original purchase unless otherwise stated in the full warranty policy. The warranty is non-transferable and valid to the original purchaser of the product only. Any attempt to modify the product in any way such as drilling, grinding, and painting will void the warranty. For more information on warranty policy and instructions for completing a warranty claim, check out the Full Warranty Policy found at our website: <https://www.visiontechusa.com/en/technology>

⚠ WARNING Always use a calibrated torque wrench to tighten all screws and bolts when assembling and adjusting the vision handlebar to the bicycle. Failure to use a calibrated torque wrench can cause damage to the handlebar making it unsafe to ride and is not covered under warranty. Check bolt and screw torque before each ride to ensure they have not loosened during use.

⚠ WARNING Periodically inspect your Aerobars for any cracks, chips, scratches, and any other visible damage. In the event of an accident do not ride the bicycle until the handlebars have been inspected by an experienced mechanic as the aerobars may be damaged or weakened even if no visible damage is apparent. If there is any visible damage, the aerobars should not be used any further and replaced.

⚠ WARNING When changing the Armrest Stack spacers ④, ⑤, ⑥, use the correct length bolt ② as per the chart show in Table 1. Use only FSA supplied bolts. Failure to use the correct length bolt can result in thread stripping of the base bar, failure of base bar, and armrest pad and can cause serious accident or injury.

Specification

These instructions are for the installation and adjustment of the following Vision Brand components only:

Model Name **TriMax Carbon Si**

Components

Follow the assembly order in the illustration:

- | | | | |
|--|-------------------------------------|---------------------------------------|---|
| ① TriMax Carbon SI Base Bar x1 | ⑦ Lower Angle Adjustment Bracket x2 | ⑬ Aero Extension Rear Plug x2 | ⑯ Armrest Pad (Left & Right) x2 |
| ② Extension Width Spacer Bolts x4 | ⑧ Angle Adjustment Grip Nut x2 | ⑭ Angle Adjustment Bolt (M7x19mm) x2 | ⑰ Armrest Plate Fixing Bolts (M5x10mm) x4 |
| ③ Bottom Cover x2 | ⑨ Upper Angle Adjustment Bracket x2 | ⑮ Extension Fixing Bolts (M5x15mm) x2 | ⑱ Extension Bridge x1 |
| ④ Armrest Stack Spacers (20mm) x6 (AM) | ⑩ Bridge x1 | | |
| ⑤ Armrest Stack Spacers (10mm) x2 (AM) | ⑪ Aero Extension (Left & Right) x2 | | |
| ⑥ Armrest Stack Spacers (5mm) x2 (AM) | | | |



Fig.1

Aerobar installation

1. Install TriMax Carbon SI Base Bar ① to stem first by selecting the desired base bar height. The TriMax Carbon SI can have a +/-25mm drop or rise depending on which direction the base bar is placed in the Stem.
 2. Slide TriMax Carbon SI Base Bar ① into Stem. Ensure Base Bar is aligned straight and gradually tighten the stem bolts to the stem manufacturer's recommended torque. Always use a calibrated torque wrench.
 3. Use Angle Adjustment Grip Nut ⑧ and Angle Adjustment Bolt ⑭ to install the Upper Angle Adjustment Bracket ⑨ to the Bridge ⑩.
 4. Slide Aero Extensions ⑪ into Bridge ⑩. Set to desired length and rotation angle. Tighten Angle Adjustment Bolt ⑭ to torque of 71 kgf.cm / 7 Nm / 62 in.lbs. then tighten Extension Fixing bolts ⑮ to 41 kgf.cm / 4 Nm / 35 in.lbs.
- ⚠ WARNING** Ensure the minimum insertion length indication on the Aero Extensions ⑪ (MIN^INSERT) is flush with the Bridge ⑩ ends. Riding the bar without the MIN^INSERT behind the mount can cause damage and unexpected bar failure causing accident and injury.
5. Place Lower Angle Adjustment Bracket ⑦ under Upper Angle Adjustment Bracket ⑨ making sure to align the wiring groves. Place the Bottom Cover ③ into the two holes immediately under the Base Bar. Insert Extension Width Spacer Bolts ② and torque to 71 kgf.cm / 7 Nm / 62 in.lbs.
 6. To adjust angle of Aero Extensions ⑪, use a 5mm hex key loosen two or three full turns all 4 Extension Width Spacer Bolts ② then with a 5mm hex key to loosen the Angle Adjustment Bolt ⑭ until Angle Adjustment Grip Nut ⑧ slides freely. Set to desired angle and tighten Angle Adjustment Bolt ⑭ with Angle Adjustment Grip Nut ⑧ to 71 kgf.cm / 7 Nm / 62 in.lbs. Torque Extension Width Spacer Bolts ② to 71 kgf.cm / 7 Nm / 62 in.lbs.
 7. Install Armrest Adjustment Plates ⑩ to Bridge ⑩ for desired fit position using Armrest Plate Fixing Bolts ⑰. Torque to 41 kgf.cm / 4 Nm / 35 in.lbs.
 8. See Table 1 for Stack Spacers ④, ⑤, ⑥ and bolt configuration to adjust the Armrest Pad Plate ⑱ to the desired height.
 9. Install Armrest Pad Plate ⑱, Evenly tighten Armrest Plate Fixing Bolts ⑰. Do not tighten above 41 kgf.cm / 4 Nm / 35 in.lbs.
 10. Remove the adhesive Velcro Strips from Armrest Pads ⑲ and attach to the top surface of left and right Armrest Pad Plate ⑱.

Wiring Installation Tips

1. Brake/electronic wiring should be run through the TriMax Carbon SI Base Bar ① before installing Base Bar ① or Bridge ⑩.
2. Installation is greatly improved when using a guide cable to gently pull the housing or electronic wires through the base bar from either direction.
3. If Armrest Stack Spacers ④, ⑤, ⑥, are being used in conjunction with wired electronic shifting on the Lower Angle Adjustment Bracket ⑦, use electrical tape to hold wiring in the guide slots on the spacers.

⚠ WARNING Never attempt to modify the cable guide holes. Do not drill, saw, or file the holes larger or to a different shape. Modifications will void warranty and may result in failure of the handlebar while riding causing accident, injury, or death.

Aero Extension Length Adjustment

It may be necessary to trim aero extensions if the rear of the extension protrudes behind the mount. Aerobars can only be cut from the rear. Do NOT cut the aerobars extensions from the front. Cutting aerobars from the front will void the warranty. Make careful measurements before cutting and be sure of the cut location. Cutting an aero extension is a one-time and final adjustment.

⚠ WARNING Do not cut beyond the (MIN^INSERT) line indicators on the extensions.

1. Use a sharp hacksaw blade for best results on alloy aerobars. For carbon aerobars, an abrasive blade will work best. Apply a layer of tape around area to be cut to reduce possibility of carbon fraying while cutting.
2. Use a cutting guide for the saw blade to ensure an even cut of the aerobar. Cut the extension to desired length.
3. Remove any burrs or frayed carbon strands with sand paper.
4. Install shifter per shifter manufacturer's instructions.
5. Use Aero Extension Rear Plug ⑬ over cable housing and press into Aero Extension ⑪.
6. Install Extension Bridge ⑲ as desired.

Table 1: Armrest Stack Spacer & Bolt Compatibility

Spacer	Spacer			Stack Height	Bolt length
	5mm	10mm	20mm		
0	0	0	0	0mm	30mm
1	0	0	0	5mm	35mm
0	1	0	0	10mm	40mm
1	1	0	0	15mm	45mm
0	0	1	0	20mm	50mm
1	0	1	0	25mm	55mm
0	1	1	0	30mm	60mm
1	1	1	0	35mm	65mm
0	0	2	0	40mm	70mm
1	0	2	0	45mm	75mm
0	1	2	0	50mm	80mm
1	1	2	0	55mm	85mm
0	0	3	0	60mm	90mm
1	0	3	0	65mm	95mm
0	1	3	0	70mm	100mm

Armrest Adjustment (Fig.1) (Fig.2)

SPEC AND ADJUSTABILITY

- 01 **Stack** : 70mm to 145mm (Bottom of stem at center to top of uncompressed pad - 5mm Increments)
- 02 **Reach** : -16.5mm to -106.5mm (Center of Base bar to rear edge of armrest - 7.5mm Increments)
- 03 **Armrest width** : 210mm to 360mm (outside-to-outside - 15mm Increments)
- 04 **Extension length adjustment** : 245mm to 385mm (Center of Base bar to Tip)
- 05 **Extension length** : 412mm
- 06 **Extension height** : 60mm (c-c)
- 07 **Extension angle** : 35° (12° at extension tip)
- 08 **Extension width** : 80mm (c-c)
- 09 **Base bar width** : 400mm (c-c)
- 10 **Base bar drop/rise** : -25mm/+25mm (c-c)
- 11 **Armrest rotation** : 0- 13°
- 12 **Bracket tilt adjustment** : 0 - 16°

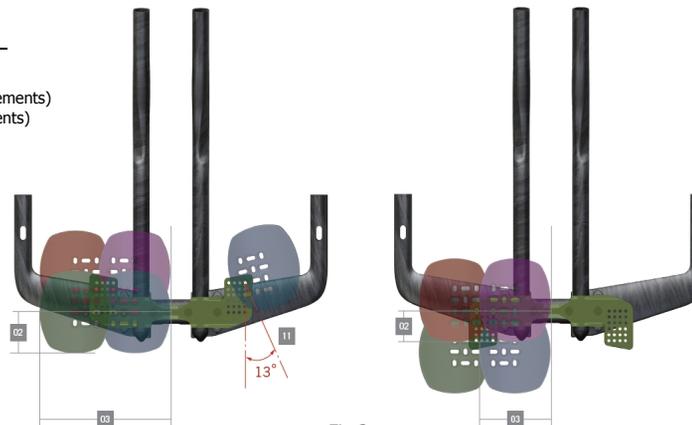


Fig.2

Contact

If you have questions, please visit our web site technical section: <https://www.visiontechusa.com/en/support> or contact:

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