



## AeroCoach Phaser with Ascalons, using tilt block adapters

**Many thanks for your purchase of the AeroCoach Phaser bar and accessories: please read the following instructions carefully as issues caused by failure to adhere to the instructions will not be covered by warranty**

### **Please note:**

- You must not drill or modify the Phaser base bar or accessories in any way.
- When using an expander plug for brake levers in the base bar, do not exceed shifter manufacturer's torque settings as damage due to over-tightening will not be covered by warranty.
- The Phaser base bar and accessories should be assembled by a qualified bicycle mechanic.
- In the event of a crash, the handlebar should no longer be used. Please contact AeroCoach and we will be happy to advise you of our crash replacement policy.

### **Installation of Phaser base bar with 31.8mm stem:**

- Before starting the installation of the Phaser handlebar, please check the handlebar compatibility with the stem being used - the stem will need to be designed for a 31.8mm diameter clamp section.
- Use isopropyl alcohol to clean the stem and handlebar surfaces. Do not use any lubricants near the clamping area.
- Apply carbon specific friction enhancer to the clamping surfaces.
- Ensure that the handlebar is centered on the stem faceplate.
- A torque wrench must be used to tighten the stem clamp bolts around the handlebar.
- Tighten the stem clamp bolts so that the upper and lower clamping slots are the same width by tightening the four bolts alternately in a cross pattern, each by a small amount at a time (1/2 turn at a time).
- For the stem clamp bolts, please check the recommended torque of the stem manufacturer.
- Check that the handlebar is secured by the stem clamp before riding so that it does not rotate in the stem clamp. Do not ride the bicycle if the handlebars are not secured.
- Phaser bars are designed to work with electronic gear, mechanical gear/brake and hydraulic brake cable systems. There are three exit holes on the rear of the bars, two either side of the stem for non internally-routed stems and one larger stem hole for integrated systems.
- When installing brake levers, please refer to the shifter manufacturer's recommended torque for the expander bolt.

### **Installation of Ascalon extensions with tilt blocks on Phaser base bar:**

1. If installing Ascalon Elite titanium extensions, insert grippers into the titanium Ascalon base pieces and secure using the provided M5 countersunk 14mm bolts (recommended torque 4-5Nm). If installing carbon or titanium Ascalons with fixed grippers, please proceed to step 2.
2. Place the cable-guiding AeroCoach spacer on top of the tilt block
3. Align the Ascalon extensions on top of the cable-guiding spacer, routing the shifter cable as required through the cable-guiding spacer. Reach can be micro-adjusted at this stage by moving the Ascalon forwards or backwards along the top edge of the tilt block.
4. Use the M6 14mm button head bolts (carbon Ascalons) or M6 18mm button head bolts (titanium / titanium Elite Ascalons) provided to secure the underside of the Ascalon to the top of the tilt block (bolt heads inside the top of the tilt block - recommended torque 5-6Nm). **Please ensure that the minimum distance between these bolts is 20mm.**
5. Place the provided AeroCoach base bar matched spacers onto the Phaser base bar.
6. Add any required AeroCoach tilt block stackers on top of the matched spacers.
7. Insert the threaded bar into the slot of the tilt block adapter.
8. Use the M6 35mm countersunk bolts provided to secure the tilt block adapter assembly to the base bar (recommended torque 5-6Nm) with no stackers in place. Longer bolts supplied should be used if stackers are used.
9. Attach the Align Wing carbon arm rests (Align Curve for the titanium Elite Ascalons) to the top of the Ascalons using the M5 10mm button head bolts (carbon Ascalons) or M5 14mm button head bolts (titanium / titanium Elite Ascalons) with the washers provided in the arm rest package directly under the bolt heads (recommended torque 2-3Nm).
10. Please note: the AeroCoach Ascalon Garmin / Wahoo mounts are designed to be used on the left hand Ascalon.

**Please check your equipment before each ride - if you see any damage then you should not use the bicycle until it has been inspected**

AeroCoach LTD does not accept any liability for issues arising due to non-compliance of these instructions. If you are unsure about the setup of your Ascalon extensions, please contact [customerservice@aero-coach.co.uk](mailto:customerservice@aero-coach.co.uk)



## AeroCoach Phaser with Ascalons, using Phaser Ascalon adapters

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### **Please note:**

- You must not drill or modify the Phaser base bar or accessories in any way.
- When using an expander plug for brake levers in the base bar, do not exceed shifter manufacturer's torque settings as damage due to over-tightening will not be covered by warranty.
- The Phaser base bar and accessories should be assembled by a qualified bicycle mechanic.
- In the event of a crash, the handlebar should no longer be used. Please contact AeroCoach and we will be happy to advise you of our crash replacement policy.

### **Installation of Phaser base bar with 31.8mm stem:**

- Before starting the installation of the Phaser handlebar, please check the handlebar compatibility with the stem being used - the stem will need to be designed for a 31.8mm diameter clamp section.
- Use isopropyl alcohol to clean the stem and handlebar surfaces. Do not use any lubricants near the clamping area.
- Apply carbon specific friction enhancer to the clamping surfaces.
- Ensure that the handlebar is centered on the stem faceplate.
- A torque wrench must be used to tighten the stem clamp bolts around the handlebar.
- Tighten the stem clamp bolts so that the upper and lower clamping slots are the same width by tightening the four bolts alternately in a cross pattern, each by a small amount at a time (1/2 turn at a time).
- For the stem clamp bolts, please check the recommended torque of the stem manufacturer.
- Check that the handlebar is secured by the stem clamp before riding so that it does not rotate in the stem clamp. Do not ride the bicycle if the handlebars are not secured.
- Phaser bars are designed to work with electronic gear, mechanical gear/brake and hydraulic brake cable systems. There are three exit holes on the rear of the bars, two either side of the stem for non internally-routed stems and one larger stem hole for integrated systems.
- When installing brake levers, please refer to the shifter manufacturer's recommended torque for the expander bolt.

### **Installation of Ascalon extensions with Phaser Ascalon adapters:**

1. If installing Ascalon Elite titanium extensions, insert grippers into the titanium Ascalon base pieces and secure using the provided M5 countersunk 14mm bolts (recommended torque 4-5Nm). If installing carbon or titanium Ascalons with fixed grippers, please proceed to step 2.
2. If purchased, place any required Phaser stackers onto the base bar. 40mm of stackers can be used without the bridge in place, with the bridge and stackers together totalling a maximum of 50mm of stack under the adapters.
3. Place the Phaser Ascalon adapters directly onto the base bar, or onto the stackers or bridge if using, and secure using the provided bolts. The M6 35mm countersunk bolts provided should be used to contact the adapters directly to the base bar (no stackers in place), or the longer bolts provided should be used in 10mm increments for each additional pair of stackers or bridge added. Recommended torque is 5-6Nm.
4. Align the Ascalon extensions on top of the adapters and use the M6 12mm button head bolts (carbon Ascalons) or M6 16mm button head bolts (titanium / titanium Elite Ascalons) provided to secure the underside of the Ascalon to the top of the tilt block (bolt heads inside the top of the tilt block - recommended torque 5-6Nm). **Please ensure that the minimum distance between these bolts is 20mm.**
5. Attach the Align Wing carbon arm rests (Align Curve for the titanium Elite Ascalons) to the top of the Ascalons using the M5 10mm button head bolts (carbon Ascalons) or M5 14mm button head bolts (titanium / titanium Elite Ascalons) with the washers provided in the arm rest package directly under the bolt heads (recommended torque 2-3Nm).
6. Please note: the AeroCoach Ascalon Garmin / Wahoo mounts are designed to be used on the left hand Ascalon.

**Please check your equipment before each ride - if you see any damage then you should not use the bicycle until it has been inspected**

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## **AeroCoach Phaser with AeroCoach 22.2mm extension clamps**

**Many thanks for your purchase of the AeroCoach Phaser bar and accessories: please read the following instructions carefully as issues caused by failure to adhere to the instructions will not be covered by warranty**

**Please note:**

- You must not drill or modify the Phaser base bar or accessories in any way.
- When using an expander plug for brake levers in the base bar, do not exceed shifter manufacturer's torque settings as damage due to over-tightening will not be covered by warranty.
- The Phaser base bar and accessories should be assembled by a qualified bicycle mechanic.
- In the event of a crash, the handlebar should no longer be used. Please contact AeroCoach and we will be happy to advise you of our crash replacement policy.

**Installation of Phaser base bar with 31.8mm stem:**

- Before starting the installation of the Phaser handlebar, please check the handlebar compatibility with the stem being used - the stem will need to be designed for a 31.8mm diameter clamp section.
- Use isopropyl alcohol to clean the stem and handlebar surfaces. Do not use any lubricants near the clamping area.
- Apply carbon specific friction enhancer to the clamping surfaces.
- Ensure that the handlebar is centered on the stem faceplate.
- A torque wrench must be used to tighten the stem clamp bolts around the handlebar.
- Tighten the stem clamp bolts so that the upper and lower clamping slots are the same width by tightening the four bolts alternately in a cross pattern, each by a small amount at a time (1/2 turn at a time).
- For the stem clamp bolts, please check the recommended torque of the stem manufacturer.
- Check that the handlebar is secured by the stem clamp before riding so that it does not rotate in the stem clamp. Do not ride the bicycle if the handlebars are not secured.
- Phaser bars are designed to work with electronic gear, mechanical gear/brake and hydraulic brake cable systems. There are three exit holes on the rear of the bars, two either side of the stem for non internally-routed stems and one larger stem hole for integrated systems.
- When installing brake levers, please refer to the shifter manufacturer's recommended torque for the expander bolt.

**Installation of AeroCoach 22.2mm extension clamps on Phaser base bar:**

1. If purchased, place any required Phaser stackers onto the base bar. 40mm of stackers can be used without the bridge in place, with the bridge and stackers together totalling a maximum of 50mm of stack under the extension clamps.
2. Place the AeroCoach matched spacers directly onto the base bar, or onto the stackers or bridge if using, then place the extension clamps onto the matched spacers, and secure using the provided bolts. The M6 35mm countersunk bolts provided should be used to connect the extension clamps & matched spacers directly to the base bar (no stackers in place), or the longer bolts provided should be used in 10mm increments for each additional pair of stackers or bridge added. Recommended torque is 5-6Nm.
3. Insert Angles extensions into the extension clamps.
4. Place AeroCoach Align Wing carbon arm rests onto the extension clamps, and secure the arm rests onto the extension clamp using the M5 14mm button head bolts, with washers provided, to secure both the arm rests in position and the extension clamp around the extension poles (recommended torque 4-6Nm).
5. If angled spacers or other spacers are used between the bottom of the arm rests and top of the extension clamps, please note that longer bolts (not provided) will be required - please ensure that the M5 bolts used are long enough to engage with all threads in the extension clamp.

**Please check your equipment before each ride - if you see any damage then you should not use the bicycle until it has been inspected**

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customerservice@aero-coach.co.uk



## **AeroCoach Phaser with tilt block adapters and 22.2mm extension clamps**

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### **Please note:**

- You must not drill or modify the Phaser base bar or accessories in any way.
- When using an expander plug for brake levers in the base bar, do not exceed shifter manufacturer's torque settings as damage due to over-tightening will not be covered by warranty.
- The Phaser base bar and accessories should be assembled by a qualified bicycle mechanic.
- In the event of a crash, the handlebar should no longer be used. Please contact AeroCoach and we will be happy to advise you of our crash replacement policy.

### **Installation of Phaser base bar with 31.8mm stem:**

- Before starting the installation of the Phaser handlebar, please check the handlebar compatibility with the stem being used - the stem will need to be designed for a 31.8mm diameter clamp section.
- Use isopropyl alcohol to clean the stem and handlebar surfaces. Do not use any lubricants near the clamping area.
- Apply carbon specific friction enhancer to the clamping surfaces.
- Ensure that the handlebar is centered on the stem faceplate.
- A torque wrench must be used to tighten the stem clamp bolts around the handlebar.
- Tighten the stem clamp bolts so that the upper and lower clamping slots are the same width by tightening the four bolts alternately in a cross pattern, each by a small amount at a time (1/2 turn at a time).
- For the stem clamp bolts, please check the recommended torque of the stem manufacturer.
- Check that the handlebar is secured by the stem clamp before riding so that it does not rotate in the stem clamp. Do not ride the bicycle if the handlebars are not secured.
- Phaser bars are designed to work with electronic gear, mechanical gear/brake and hydraulic brake cable systems. There are three exit holes on the rear of the bars, two either side of the stem for non internally-routed stems and one larger stem hole for integrated systems.
- When installing brake levers, please refer to the shifter manufacturer's recommended torque for the expander bolt.

### **Installation of tilt blocks and extension clamps on Phaser base bar:**

1. If purchased, place any required Phaser stackers onto the base bar. 40mm of stackers can be used without the bridge in place, with the bridge and stackers together totalling a maximum of 50mm of stack under the extension clamps.
2. Align the AeroCoach extension clamps on top of the tilt blocks, using the provided M6 12mm button head bolts provided (bolt heads inside the top of the tilt blocks) - recommended torque is 5-6Nm
3. Place the provided AeroCoach base bar matched spacers onto the Phaser base bar.
4. Insert the threaded bar into the slot of the tilt block adapter.
5. Use the M6 35mm countersunk bolts provided to secure the tilt block adapter assembly to the base bar (recommended torque 5-6Nm) with no stackers in place. Longer bolts supplied should be used if stackers are used.
6. Insert Angles extensions into the extension clamps.
7. Place AeroCoach Align Wing carbon arm rests onto the extension clamps, and secure the arm rests onto the extension clamp using the M5 14mm button head bolts, with washers provided, to secure both the arm rests in position and the extension clamp around the extension poles (recommended torque 4-6Nm).
8. If angled spacers or other spacers are used between the bottom of the arm rests and top of the extension clamps, please note that longer bolts (not provided) will be required - please ensure that the M5 bolts used are long enough to engage with all threads in the extension clamp.

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