



Thank you for choosing Axion Kinetics's Trestle Frame Support. Our design conforms to the frame with as tight of a tolerance as possible to decrease the likelihood of frame damage resulting from a crash. Our patent pending conformable design allows for use with stock and most after-market foot controls.

CAUTION:

We recommend installation of these supports to be completed by your teams certified technician or by a certified Ducati service technician. **Do not install or use this product if installation cannot be completed in accordance with all steps, notes, cautions and warnings in these instructions.** Installation of this product releases Axion Kinetics LLC from all liabilities as to the products use. Before proceeding, please read through Section 3.

NOTE:

This product is intended for **off-road use only**. The user recognizes that any alteration or modification to any vehicle may increase the risk of injury or accident and may also render the vehicle illegal for public road use. Although this product will decrease the likelihood of frame damage in the areas circled in Figure 1 during an event, the effectiveness of this product decreases as speed and severity increases.

Section 1: RH Foot Controls

- 1.1 Read through Section 3.
- 1.2 Remove RH foot controls by removing two mounting bolts securing foot controls to frame.
- 1.3 Install RH side Trestle Frame Support by inserting expandable plug into rear engine mount tube until inside face is seated against tube.
 - 1.3.1 Ensure inside surface mates tightly against foot control brackets. If surfaces seat, proceed to step 1.3.2. If surfaces do not seat, proceed to step 3.1.
 - 1.3.2 Ensure mount bolts will clear inner diameter of through holes. If mount bolts will clear, proceed to step 1.4. If mount bolts will not clear, proceed to step 3.2.
- 1.4 While pressing firmly on support, tighten expandable bushing bolt until adequate resistance is felt.

CAUTION: Do not over torque bushing bolt.

- 1.5 Install RH foot control. Apply factory recommended thread lock to mount bolts and torque mount bolts to factory specifications. Please ensure a minimum of two threads of mount bolts are protruding from the back side of mount tabs. If that minimum cannot be reached, replace with longer bolts rated for this application.

WARNING: Failure to meet proper torque specifications may result in loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.



WARNING: Failure to meet minimum thread protrusion may result in loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.

Section 2: LH Foot Controls

- 2.1 Remove RH foot controls by removing two mounting bolts securing foot controls to frame.
- 2.2 Install RH side Trestle Frame Support by inserting expandable plug into rear engine mount tube until inside face is seated against tube.
 - 2.2.1 Ensure inside surface mates tightly against foot control brackets. If surfaces seat, proceed to step 2.2.2. If surfaces do not seat, proceed to step 3.1.
 - 2.2.2 Ensure mount bolts will clear inner diameter of through holes. If mount bolts will clear, proceed to step 2.3. If mount bolts will not clear, proceed to step 3.2.
- 2.3 While pressing firmly on support, tighten expandable bushing bolt until adequate resistance is felt.

CAUTION: Do not over torque bushing bolt.

- 2.4 Install RH foot control. Apply factory recommended thread lock to mount bolts and torque mount bolts to factory specifications. Please ensure a minimum of two threads of mount bolts are protruding from the back side of mount tabs. If that minimum cannot be reached, replace with longer bolts rated for this application.

WARNING: Failure to meet proper torque specifications may result in loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.

WARNING: Failure to meet minimum thread protrusion may result in loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.

- 2.5 Ensure any disturbed shifting assembly hardware is installed to factory specifications and all shifting assembly linkages move and return to center freely.

WARNING: Failure to ensure shifting assembly components are functioning properly may cause loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.

Section 3: Remedial Installation Actions

Note: During testing we found that due to the Ducati partially handmade manufacturing process, the dimensions from the foot control mounting holes to the engine mount tube are not fixed values. These dimensions not only differ from vehicle to vehicle, but also from LH to RH on the same vehicle. We also found that the welds holding the foot control tabs to the frame do not hold the same tolerance consistently. Section 3 describes further action you may need to take to complete installation. Please notify us if you have taken these steps but are not getting the intended result.



3.1 If surfaces do not seat, it may be due to welds on the leading edge of the foot control mounting tabs having too much excess weld material on the outside surface. Removing excess weld material in the highlighted sections (Figure 2) may be required. If removal of excess weld material will ensure seating, remove minimum amount of material necessary to allow seating.

WARNING: Excessive weld material removal may decrease effectiveness of this product and may result in loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.

3.2 If a through hole does not line up to ensure a mount bolt can be installed easily, removing material from inner diameter of through hole may be required (Figure 3). If removal of material will ensure mount bolt installation, remove minimum amount of material necessary to allow for bolt installation.

WARNING: Excessive material removal may decrease effectiveness of this product and may result in loss of control of vehicle, injury, damage to vehicle, loss of vehicle or loss of life.

NOTE:

Before use please be aware these supports will move the LH and RH foot controls outward from centerline of vehicle approximately 0.2 of an inch each side. Please configure your shift and brake pedals to adjust for new geometry. Please become comfortable and familiar with new geometry prior to use.



Figure 1. Areas of stress during a crash



Figure 2. Areas of potentially high welds



Figure 3. Areas which may require modification

