



ENVE® Composites, LLC
Ogden, UT 84404, USA

ENVE® Mountain Fork Installation

Tools Required:

- 4 / 5 / 6 mm Hex
- Mitre Block or Steerer Tube Cut Guide
- Fine tooth hack saw (32 TPI or higher)
- Fine grit sandpaper (100 grit or higher)
- Race setting tool
- Electrical tape
- Synthetic grease

Included Hardware:

1 x Fender:



2 x Cable Clasps:



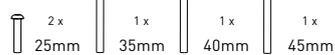
2 x Brake Spacers:



1 x Brake Adaptor:



Bolts:



1 x 15mm Axle:



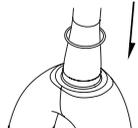
1 x Compression Plug:



Measuring Steerer Tube for Cutting

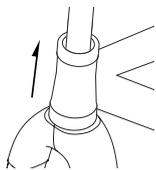
Step 1 :

Install lower crown race to the bottom of the steer tube. While driving crown race into place, hold fork in hand and use crown race setter to avoid damage to the drop outs on the fork.



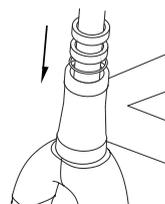
Step 2 :

Put the steerer tube through the head tube until secure against the head set.



Step 3 :

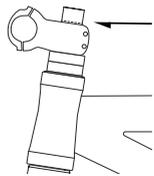
Set the upper crown race and desired amount of spacers on the steerer tube. NOTICE: Max stack height is 30mm.



Step 4 :

Set the stem into place above the spacers without tightening the bolts. Mark the steer tube with a graphite pencil directly above the stem to mark the cut location.

Note: The cut will be made 2mm below this mark.



Step 5 :

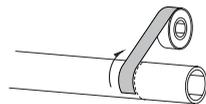
Disassemble the fork by removing stem, spacers and upper crown race and then removing the fork.

Cutting Steer Tube

Step 6 :

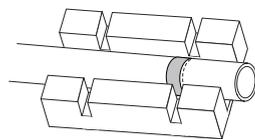
Apply electrical tape 2mm below the pencil mark and align perpendicular with the run of the steer tube.

Note: The tape will prevent the carbon fibers from lifting off the steerer tube while cutting and damaging the headset upon install.



Step 7 :

Align steerer tube in cutting guide or mitre block and begin cutting with the fine tooth hack saw using even strokes directly against the edge of the electrical tape. After cut is made, remove electrical tape.



Step 8 :

Lightly sand the edge of the newly cut surface with the 100 grit sandpaper. Look for and remove any extruding fibers if any. Stop once the edges are smooth and slightly beveled to a round edge.

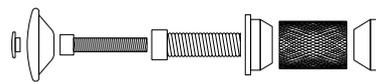
Step 9 :

Re-install fork into the head tube. Set only the upper crown race and spacers into position.

Installing ENVE Compression Plug

Step 10 :

The ENVE compression plug must first be disassembled to install. Separate all parts:



A: Remove top cap bolt and top cap

B: Disassemble compression assembly: Lower wedge, upper wedge and compression bolt all separated.

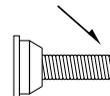
Step 10 :

Apply small amounts of synthetic grease to the following locations:

A: Side of top cap bolt



B: Side of compression bolt



C: Around the pitched surface of the upper wedge



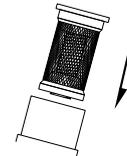
D: Around the pitched surface of the lower wedge



Tech Note: DO NOT APPLY GREASE TO THE KNURLED SLEEVE. The secure fit of the plug will be compromised if grease is applied to the knurled aluminum sleeve.

Step 11 :

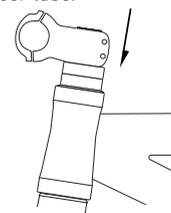
Reassemble the compression assembly with exception of top cap bolt. Tighten compression bolt so that the plug must be gently pressed into the steer tube above the stem rather than dropped in. Once placed into steer tube, tighten compression bolt to 8Nm.



Step 12 :

Install stem on steerer tube above spacers. Partially secure stem to steer tube and align the stem to the direction of the wheel.

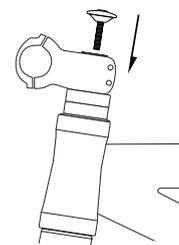
Tech Note: Alternating the bolts while fastening will evenly clamp the stem to the steer tube.



Step 13 :

Install the top cap by inserting the top cap bolt through the top cap and fasten to the compression bolt to proper compression setting.

Tech Note: Placing a 5mm spacer in between the compression assembly and the top cap will assist in obtaining the correct amount of compression in the headtube assembly.



Step 14 :

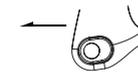
Tighten stem bolts to stem specifications and no tighter than 7Nm after double checking the alignment of the stem with the wheel. Insert rubber bolt cap cover over the top cap bolt.

Installing Disc Brakes

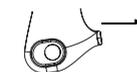
Step 15 :

Instal the dropout chips in the desire position:

51mm rake:



44mm rake:

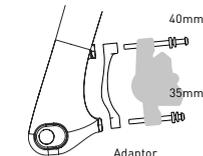
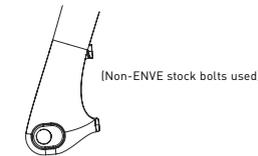


Step 16 :

The following four installations are possible with a 160mm and 180mm disc brake. NOTICE: Bolts must have six turns of thread engagement. If not, use the next size larger bolt.

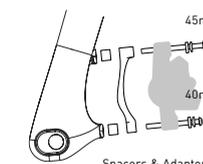
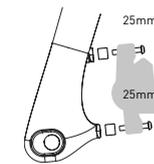
A: 51mm rake / 160mm disc

B: 51mm rake / 180mm disc



C: 44mm rake / 160mm disc

D: 44mm rake / 180mm disc

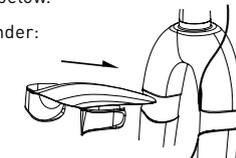


Installing Fender / Cable Clasps

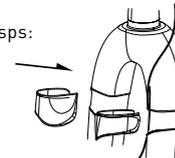
Step 17 :

Install the fender by pinching the center and sliding fender clasps into position from the front of the fork. Install the fender clasps directly into the indents of the fork, not above or below.

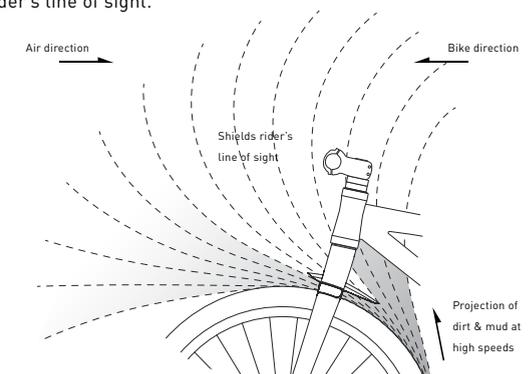
Fender:



Cable Clasps:



Tech Note: The fender shields the rider's head from dirt and mud thrown off the front wheel and into the rider's direction of travel. It is intended to keep dirt and mud out of the rider's line of sight.



Installing Wheel to Fork

Step 18 :

Install the wheel to the fork by inserting wheel between the fork and aligning the hub with the through-axle. Insert axle through dropout chips and through the hub. Fasten axle with 6mm allen key to 8 Nm. Bolt head should be fasten on drive side only.

NOTICE: Do not grease axle threads.