Fitting instructions for Voodoo Fairing - KTM 950/990 Adventure

Thank you for purchasing the Voodoo fairing.

Your fairing kit comes largely completed and includes the following.

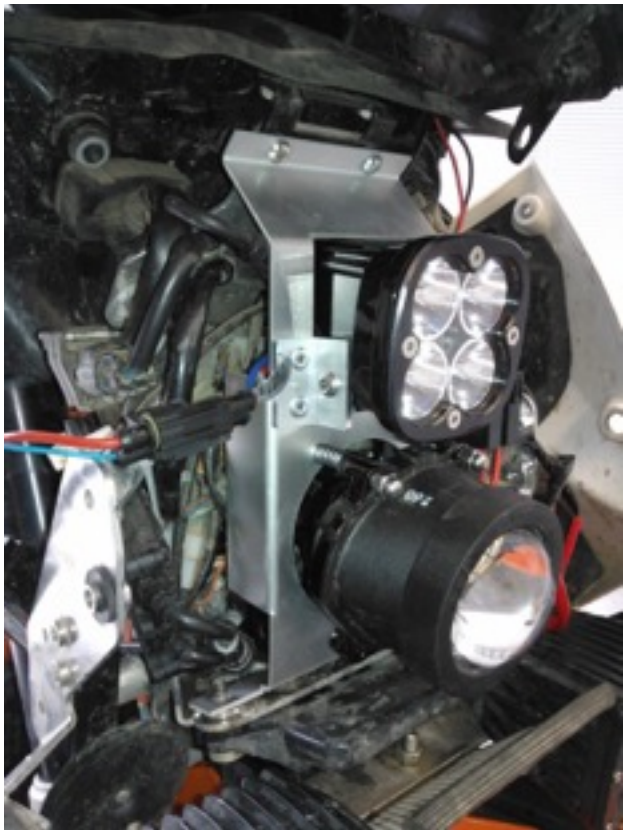
- 1 x Fairing
- 1x Screen, tint or clear
- 2x 35mm thumbscrews threaded into two plastic sliders and Nylock nuts.
- 4x 16mm M6 screws (950 only)
- 2x 30mm & 2x 16mm M6 screws (990 only)
- 4x M6 flange nuts
- 4x M5 black screws and nuts (for GPS mount)
- 1 x ABS GPS mount.
- 1x Bottom bracket & 4x M6 flange screws (950 only)
- 1x Headlight frame with Headlights and wiring harness installed.
- 1x Headlight adjustment Hex key
- 1x Headlight cover (if ordered)
- 1x twin USB charging socket (if ordered)

Removing OEM parts

- Secure the Motorcycle in a vertical position.
- Remove OEM screen and Headlight unit unplugging the 3 pin headlight terminal at the rear of the headlight.
- Remove the Headlight from its surround and set to one side as you will be reusing it fitting the fairing.
- The Voodoo Headlight wiring harness will need to be connected to the battery, so you will need to provide access on the right side of the bike to run the cables. Remove the right side tank to do this.
- **990** Remove the 2 bolts holding the black electronics box at the bottom of the now, open front of the bike (accessed from underneath) and replace them with the 2, 30mm M6 screws from your fairing hardware, so that the threads come through the bracket and forms the bottom mounting for the Voodoo headlight frame.
- **950** Fit the included bottom bracket between the frame and attach using the 4 M5 screws included. You will need to relocate the Horn. This bracket now forms the bottom support for the Voodoo headlight unit.

Fitting the Headlight frame

- The headlight frame comes with the lights and wiring harness attached and locates onto the two screw locations created in the last step and at the top to the lower of the 4 holes in the OEM frame. (see photo)



- Before fitting the unit in place, make sure the area is clear of any other aftermarket wiring and feed the units positive and negative wires through the back of the opening and connect the 3 pin plug to your OEM headlight terminal. If your bike is fitted with the European light, you will have to wire the Voodoo harness back to the white plastic terminal at the back of the opening. If you are not sure which wires to connect, contact us.
- Once you are happy that everything is connected up and there is clear space, fit the headlight unit into place resting the bottom of the unit on the 2 screws at the bottom installed earlier.
- Make sure that there are no wires trapped as you attach the two 16mm bolts and flange nuts to the top location on the main frame**. Do not tighten the unit in place yet**, because its final position will be 'fine tuned' later.

- Now run the positive and negative wires back to the battery (right side of the frame in direction of travel is the most direct) and be careful to make sure it is strapped well and clear of the exhaust and any areas where the wires could get pinched.

Explaining the wiring harness and testing the lights

- Your wiring harness comes largely complete and should operate straight away.
  1) The relay operates the HID low beam .
  2) You will see that there are two, separately fused power wires included in the harness that can be used for powering accessories such as GPS, heated grips and power sockets. One of these is switched through the ignition, the other is direct power from the battery and remains live at all times. If you are not using these, remove the fuse from each of them and strap the wires neatly away.
  3) The Hi beam LED is powered directly from the bikes headlight supply and this ensures that each light operates from a separate circuit to avoid the loss of both lights from a circuit problem at the same time. You will see that there is a small diode bridging the Hi and low wires and this allows the low beam to remain on, when the Hi is switched.
  4) The city light wires are no longer needed and can be sealed off, or used as a further 'switched' accessory power source.

  - Switch the handlebar toggle to Low, turn on the ignition and start the bike.
  - The low beam should come on with the ignition and now switch to Hi beam and both lights should be on.
  - Now is a good time to adjust the lights for height and is best done against a wall, or even a short ride if it's dark (remember, the headlight frame is still only loosely fitted!). It is particularly important to adjust the low beam lamp correctly as you will see that the projector lamp gives a very wide, bright beam pattern with a sharp horizontal line. If this line is too high, you will not be thanked by oncoming traffic, but too low will lose you a lot of light coverage!
    You will be able to make further height adjustment to the low beam using the gold Hex key provided and accessing the lower adjustment screw through the small hole in the front of the fairing.

Fitting the GPS platform, GPS installation and accessory sockets

Fitting out the dashboard will require bringing power up for the Voodoo wiring harness and the power supply will need to come up through the OEM dashboard. **(do not run the wires via the channel for the sliding screen mechanism) .**It is useful to consider placing a quick release terminal after the power cable comes through the OEM dash, so that it can be unplugged easily when the fairing needs to be removed from the bike. If

you are fitting a typical GPS and a power socket, the power socket is best located on the side of the Voodoo dashboard.

Most GPS units come with a cradle and this has proved sufficient for a sturdy mount and can be surface mounted to the ABS platform.

Attaching the screen

When you have fitted the GPS Platform you can now attach the screen. The screen fits using the two thumbscrews threaded into the two black plastic sliders that run in the channel on the back of the fairing. Tighten the thumbscrews up until the sliders just touch the back of the fairing and the screen **can still slide up and down freely.** Then thread the two Nylock nuts onto the extended thread until they just touch the back of the sliders. These act as a backstop to stop the thumbscrews being able to undo too far and allowing the screen to come out of the tracks. If set correctly, you should only need one turn on the thumbscrews to tighten the screen from fully undone.

Test fit the fairing and secure the headlight frame

- Once you have the headlights adjusted, fit the fairing in place and temporarily fit the 6 OEM screen screws, but don't tighten them. The fairing is designed to be a bit of a stretch between the holes on each side so that the OEM fairing supports the additional loads incurred by the bigger screen system
- Now you need to check that the headlight openings line up with the headlights. You will have noticed that the headlight frame mounting holes are slotted at the bottom to allow side to side movement of the frame to line the low beam lamp up with the fairing openings. Remember that each lamp can be adjusted sideways as well using the height adjustment screws.
- You also need to check that both lights sit just behind the openings and not touching the fairing. The low beam headlight can be moved backwards or forwards turning all 3 adjustment screws equally to maintain the level you set earlier.
- Once you are happy that everything is lined up, remove the fairing and tighten all 4 of the headlight frame mounting bolts.

When you are happy that everything is working and aligned properly, re-attach the fairing and tighten all six screws

Adjusting the screen

5) Operation of the adjustable screen is straightforward. It is designed to slide down completely when off road (if desired) and can be adjusted to suit at highway speeds.

Riders over 6’3” will almost certainly place it in its highest position on the road, but experiment with different heights, because highest isn’t always best.

6) **Do not over tighten the thumbscrews**

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