Cobra & Cobra XL by CSC

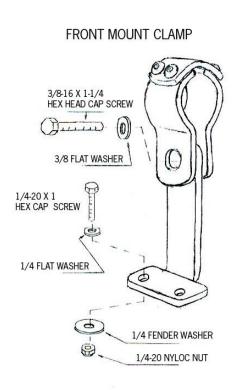
2001 - 2010 GL1800 Goldwing

Ground Effects

Installation Instructions

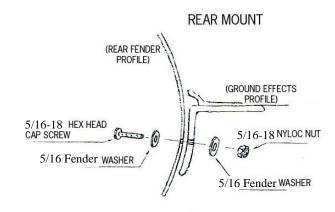
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California Sidecar Parts & Technical Support 434.263.8866





2006 COMFORT PACKAGE MODELS



IMPORTANT

The California Sidecar *Ground Effects* are designed to fit the California Sidecar Cobra Trike Conversion Kit only.

Wiring Installation:

- 1. Remove the seat and passenger grip handles with the four M8 x 1.25 SHCS.
- 2. Plug the four pin GRD EFX harness into the four pin connector at the body connectors (2 red and 2 blue connectors).
- 3. Secure the GRD EFX box to the motorcycle frame or inner fender.
- 4. Route the purple and black wires to the left side and the brown and black wires to the right side.
- 5. Replace the seat and passenger grip handles with the four M8 x 1.25 SHCS.

Ground Effects Installation:

- 1. Disconnect the three pin connector at the sidestand switch.
- 2. On the sidestand side of the connector cut 2 inches from the connector.
- 3. Strip the two green wires and connect them together with a butt connector.
- 4. Tape or shrink tube all three wires.
- 5. Remove the side stand.

Front mounts – (left & right)

2006 & UP Comfort Package Models Only Refer to picture above. Cut opening in rubber boot 1/2" wide and 1 3/8" long. Insert the two clamp halves threw opening in rubber boot with weld nut facing forward. It is not necessary to install top of clamp or the 4 button head cap screws.

- a. Install clamp on rear tube of engine guard, with weld nut facing forward.
- b. Tighten four 6mm button head cap screws.
- c. Compress clamp flats with pliers allowing enough gap to insert lower front mount with foot facing rear.
- d. Align holes and install $3/8-16 \times 1^{1/4}$ hex head cap screw. Do not tighten.

Middle Mount:

- 1. Remove the center stand. (Right side HHCS is left hand threads and the left side SHCS is right hand threads).
- 2. Install the middle mount reusing the OEM SHCS on the left side and a new M10 left hand SHCS on the right side. Install a flat washer on each SHCS. Get both SHCS snug but not tight leaving the mount rotated down.

Lay **Ground Effects** into place, aligning to fender ensuring that the rear mating edge is level and the fiberglass bracket is contoured to the fender. Clamp bracket to fender (Vise-Grip®6-sp works well).

Note: In order to achieve optimum fit, you may find it necessary to grind slightly where the **Ground Effects** meet the fender.

- 1. Adjust front of *Ground Effects* so there is ½" or less gap between *Ground Effects* edge and lower cowl.
- 2. Holding this position, mark location of two lower front mount holes to the *Ground Effects*.
- 3. Remove clamp at rear and remove *Ground Effects*.
- 4. Drill two 1/4 "holes at marked location.
- 5. Remove lower front mount from clamp and attach to **Ground Effects** (foot to rear) with two $\frac{1}{4}$ -20 x 1 hex head cap screws with $\frac{1}{4}$ washers. Use $\frac{1}{4}$ x 1 $\frac{1}{4}$ fender washers and $\frac{1}{4}$ -20 nyloc nuts on the underside.
- 6. Using super glue affix rubber strips to rear of the *Ground Effect* where they meet the fender.
- 7. Place *Ground Effect* in position and clamp rear to fender as in step 3.
- 8. Insert lower front mount between flats of clamp and install 3/8–16 x 1 ½ hex head cap screw and 3/8 washer. Adjust *Ground Effect* location as in step 4, and tighten.

Rear mounts:

- a. With clamp still in place, drill two 5/16" holes 3" up from bottom edge of fender ensuring holes go through fiberglass bracket approximately 1" from each side of bracket.
- b. Install two 5/16-18 x 1 hex head cap screws, pointing forward, with the bolt head on the <u>inside</u> of the trike body fender well. <u>DO NOT INSTALL the</u> bolt with the threads inside the fender well. Secure with 5/16 fender washers and 5/16-18 nyloc nuts. Do not over tighten. Remove clamp.

Middle mount:

- 1. Rotate the mount up until it touches the *Ground Effect*.
- 2. Pull up the rubber mat where you are about to drill.
- 3. Using a 1/4 drill bit with an angle drill, drill up though the **Ground Effect** using the middle mount as a guide.
- 4. Install two 1/4-20 elevator bolts into the drilled holes and secure with nyloc nuts and washers on each side.
- 5. Reglue the rubber mats.
- 6. Now tighten the two SHCS for the Middle Mount.

Finishing the installation:

- 1. <u>Ensure free movement of foot brake lever and gear shift lever.</u>
- 2. Drill a 5/16" hole on each side of the trike body, above the mufflers but underneath the *Ground Effect*, to run the wiring harness with relays through.
- 3. Connect the left **Ground Effect** wiring harness to the installed wiring harness. The black wire to the black wire, and the purple wire to the purple wire with butt connectors.
- 4. Connect the right **Ground Effect** wiring harness to the installed wiring harness. The black wire to the black wire, and the brown wire to the brown wire with butt connectors.
- 5. Test the cornering lights to ensure that the lights operate with the appropriate turn signal, and the light remains illuminated until the turn signal is cancelled.

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