



**1988 - 2000
GL1500 Goldwing**

**Ground Effects
Installation Instructions**

Revised 1 - 2015

**California Sidecar Parts & Technical Support
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IMPORTANT

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

The *Ground Effects* are designed and intended to ONLY ACCOMMODATE THE STOCK HONDA RIDER FOOTPEGS.

Wiring Installation:

1. Remove the seat and passenger grip handles.
2. Plug the four pin GRD EFX harness into the four pin connector at the body connectors.
3. Secure the GRD EFX box to the control units.
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.

Ground Effects Installation:

1. Remove the side stand.
2. Cut the sidestand switch off the end of the harness.
3. Strip the two green wires and connect them together with a butt connector.
4. Tape or shrink tube all three wires.
5. Secure wires to the frame.

Front Mounts Left and Right:

1. Install clamp on rear tube of engine guard, with weld nut facing forward.
2. Tighten four 6mm BHSCS.
3. Compress clamp flats with pliers allowing enough gap to insert lower front mount with foot facing rearward.
4. Align holes and install 3/8-16 x 1 1/4 HHCS. Do not tighten.

Middle mount

1. Remove the center stand.
2. Install the middle mount reusing the OEM center stand pivot tube, and replace the cotter pin and tighten the pinch bolt.

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 1/4" 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 5/16" holes at marked location.

5. Remove lower front mount from clamp and attach to **Ground Effects** (foot to rear) with two 5/16 BHSCS.
6. Secure from underneath with two fender washers and nyloc nuts.
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 HHCS and flat washer. Adjust **Ground Effect** location as in step 4, and tighten.

Rear mounts

1. 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.
2. Install two 5/16 HHCS and fender washers, pointing forward, with the bolt head on the **inside** of the trike body fender well. **DO NOT INSTALL the 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.

Finishing the Installation:

1. **Ensure free movement of foot brake lever and gear shift lever.**
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 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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