



**ROADLINER,
STRATOLINER, &
STRATOLINER DELUXE**

**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 Vantage Trike Conversion Kit only.

The *Ground Effects* are designed and intended to ONLY ACCOMMODATE THE STOCK YAMAHA RIDER FLOORBOARDS.

Wiring Installation:

- 1. Remove the seat.**
- 2. Using 2 sided tape and/or cable ties secure the GRD EFX harness to the Upper Frame mount.**
- 3. Plug the GRD EFX harness into the body harnesses flat 4 pin plug close to the fender plug.**
- 4. Route the black and brown wires to the right side wheel well. And the purple and black to the left. To be connected later.**

Ground Effects Installation:

- 1. On both of the drivers floorboards, remove the front M10 HHCS and then loosen the rear.**
- 2. Remove the lower BHCS from the left rear engine mount.**
- 3. Use thread locking agent on all GRD EFX fasteners.**
- 4. Install the right side GRD EFX Mount using a M10-1.25 x 70mm HHCS and a M10 flat washer through the front of the mount then through the right side drivers floorboard and thread them into the frame. Do not tighten.**

5. Install the rear using two M10-1.25 x 30mm HHCS and two M10 flat washers through the mount and thread into the exhaust mount holes in frame.
 6. Install the left side GRD EFX Mount in the front the same as the right.
 7. Install the rear reusing the BHCS removed from before.
 8. On each side, slide the support brackets between the frame and the floor board with the “fork” of the bracket going around the front M10 bolt. Tighten the floor board bolts lightly. This bracket will be positioned after the GFX have been installed.
 9. Lay the **Ground Effects** into place on mounts, aligning to fender ensuring that the rear mating edge is level and the fiberglass bracket is contoured to the inner 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, exhaust, or engine covers.
10. Once an optimum fit is gained, remove them from the trike and secure the rubber trim to the mating surface.
 11. Push the **Ground Effects** back into the trike body.
Adjust the rear fiberglass mount then clamp it to the rear fender and drill a 5/16 hole and secure with a 5/16 - 18 x 1 HHCS 2 fender washers and a nyloc nut. Tighten all fasteners.
 12. Next drill six 1/4 holes through the mounts and install the four 1/4 -20 elevator bolts, flat washers, and nyloc nuts.

13. Install the two Black 1/4-20 BHCS and Black nyloc nuts on the front support brackets. Tighten all floor board bolts.
14. Tighten all fasteners.
15. Drill a 5/16 hole on each side of the trike body, just to the outside of the adjustable foot, but underneath the **Ground Effect**, to run the wiring through.
16. 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.
17. 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.
18. Secure all the wires from the harness and the GRD EFX with cable ties to the frame mounts.
19. 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.

**FROM ALL OF US AT CALIFORNIA SIDECAR.
ENJOY THE RIDE.**