

Legend

By **cSc**
TRIKES

ELECTRIC REVERSE

2004 - Current

Harley-Davidson Sportster

Installation Instructions

California Sidecar Parts & Technical Support
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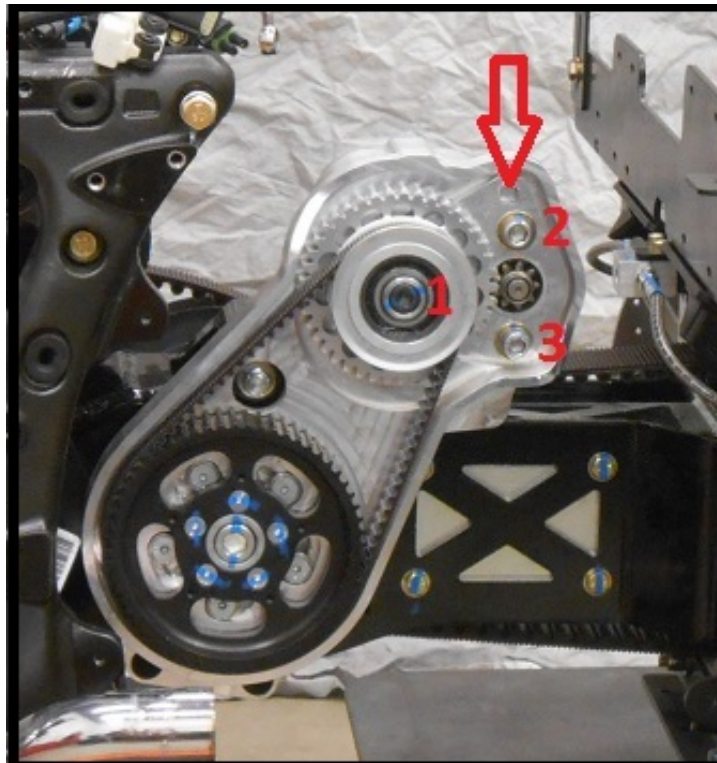
Warnings and considerations:

1. **Disclaimer** - These instructions assume a level of understanding of motorcycle repair and maintenance beyond that of a “beginner” and/or “novice” and California Sidecar cannot be liable for an installer’s failure to understand or follow these instructions as written. Likewise, California Sidecar cannot be responsible if any of the steps are omitted or shortcuts are taken, or parts other than those supplied by California Sidecar, are used in installing this trike kit.
2. **“WARNINGS”** are all printed in bold type and capitalized. They mean to use extreme care in a given step so as not to damage the part, motorcycle, and/or yourself.
3. **Always** wear safety glasses when using hand and/or power tools.
4. When working in and around the fuel system, **always** work in a well-ventilated area, free from sparks and open flames.
5. All directional references to the “right side” and the “left side” are as you were seated on the motorcycle.
6. All directional references to “forward” mean to the front of the motorcycle while “back” means the rear of the motorcycle unless otherwise stated.
7. Please consult the appropriate Service Manual for your motorcycle if further detail is necessary.

INSTALL REVERSE AND ALL ITS PARTS DURING INSTALLATION AND BEFORE THE BODY IS INSTALLED.

Assembly:

1. Once 28 MM and 50 MM belts are tensioned and all clamping bolts are tightened.
2. Check the Tension of the Reverse belt.
3. Sonic Tension Meter specs:
 MASS 004.7
 WIDTH 021.0
 SPAN 0176
4. Reverse Belt Tension:
 SINGLE SPAN TENSION: 49-55 lbs.
5. To tension belt you must loosen the 3 fasteners **Red 1 - 3**
6. Using a 3/8 drive breaker bar insert it in the square drive hole (**Red Arrow**), then retighten the 3 fasteners
7. Follow this procedure until the proper tension is acquired



Wiring:

1. Secure Reverse module to the top of the Intermediate Mount
2. Disconnect the Negative battery terminal
3. Plug both harnesses into the Reverse module
4. Route the **Blue** and White wires to the Reverse motor
5. Plug in the **Blue** spade to the Reverse Motor
6. Route the rest of the wire harness up under the seat

RED	- Key on Power
WHITE	- Ground
RED/YELLOW	- Brake Light
GREEN	- Engine Run, Fuel Pump
BROWN	- Neutral
YELLOW	- Horn Button
BLACK	- Horn
BLUE	- Reverse Motor Trigger

7. Route the **Red** & **Red/Yellow** wires to the fender plug

2004 – 2013 Models:

8. **Red** wire to Orange/white, Accessory power
9. **Red/Yellow** wire to **Red/Yellow**, Brake Light
10. **Green** wire to **Yellow/Green**, Fuel Pump
11. **BROWN** wire to Tan, Neutral
12. Locate the **Yellow/Black** wire, Horn wire
13. Cut the wire connect the **Yellow** wire to the end going to the button
14. Connect the other end going to the Horn to the Black wire

2014 – Current Models:

15. **Red** wire to **Red/Yellow**, Accessory power
16. **Red/Yellow** wire to **Blue/Red**, Brake Light

At the BCM:

17. **Brown** wire to pin D3 White, Neutral
18. **Green** wire to pin F4 **Red/Brown**, Fuel Pump
19. At pin E4, Horn wire, cut it
20. Black wire connects to the harness side
21. **Yellow** wire connects to the BCM

ALL Models:

22. Route the remaining end of the harness with a 3 pin connector up under the gas tank to the front end
23. We have supplied to different mounts for the Reverse Button.
24. Option One will go on the engine mount between the front and rear cylinders just above the horn
25. Option two is the smaller tab going on the lower pinch bolt for the clutch perch.
26. Ensure the rubber washer is on the Reverse button, then insert the wire thru the tab and install nut and tighten.
27. Connect the harness to the Reverse switch and secure wires with cable ties
28. Install terminal boot onto **Red** positive cable.
29. Connect the red positive cable to the stud on the Reverse motor solenoid.
30. Connect the **Red** cable to the battery positive
31. Connect the **Blue** wire to the male spade on the Reverse motor
32. Install the black negative cable and white wire to the lower long mounting bolt on the Reverse motor. Route the negative cable to the Battery and connect

33. Ensure that all wires and miscellaneous components are secured to the frame with cable ties.

Operating the Electric Reverse:

- 1. With the Trike in neutral. Start the engine.**
- 2. Depress the reverse switch and the Red LED will light up.**
- 3. Press the Horn button and the trike will then back up.**
- 4. If the brakes are applied the reverse will pause until the brakes are no longer being used.**

**From all of us at California Sidecar.
Enjoy the ride!**