Trike Conversion Kit

2000 - Current

Softail Harley-Davidson

Excludes Rocker, Deuce,

Installation Instructions

Revised 1 - 2017

California Sidecar Parts & Technical Support
434.263.8866
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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.

**Recommended Lubricants and Sealants:**

1. Molybdenum Disulfide grease for splines (Mobil Grease Moly 52 or equivalent)
2. Multipurpose grease for Zerk fittings.
3. Thread locking compound (Loctite 242 minimum)
4. High temperature Silicone sealant.
### Maintenance Schedule: CUSTOM

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<th>Item</th>
<th>Frequency (miles)</th>
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</table>

I: Inspect: clean, lubricate, and/or replace as necessary.  
R: Replace  
L: Lubricate with Silicone Spray  
T: Tension

**NOTE:**  
[1] Minimum pad thickness is 0.04 inches (1.02mm)  
[3] Rear tire pressure 28 PSI

At higher odometer readings, repeat at frequency intervals established here.

**Note:**  
This Schedule is in addition to the Harley Davidson Maintenance Schedule

**NOTICE:**  
The remote door opener installed on this unit has a very small electrical draw on your motorcycle battery. If your trike will be unridden for more than 2 weeks you should remove the 15 amp fuse from the red fuse holder located under your seat or right side cover. Another option is using a battery tender.
Disassembly of motorcycle:

1. Place the motorcycle on the lift.
2. Place a suitable Jack under the Frame of the Motorcycle and tie down securely.
3. Remove Drain Plug from Primary Cover Assembly and drain oil.
4. Slide Rubber Boot off of the Clutch Cable Adjuster. Loosen and back the Jam nut away from the Clutch Cable Adjuster. Move Clutch Cable Adjuster towards the Jam Nut to introduce free play in the Clutch Lever.
5. Remove the fasteners that secure the seat. Remove seat.
6. Disconnect negative Battery Terminal.
7. Remove the Saddle Bags. And their hardware. If equipped.
8. Loosen Muffler Clamp on both Mufflers and other attaching hardware. Remove and discard both Mufflers.
9. Loosen the 4 exhaust stud nuts and save. Remove and discard head pipes and exhaust gaskets.
10. Disconnect the Rear Lamp Wiring Harness.
11. Remove any fasteners from Electrical Box.
12. Remove and discard Rear Fender, Fender Support and fasteners.
   NOTE: 2008-Current various models. Remove ECM from Fender and save nuts.
13. Drain all Brake Fluid from the Rear Brake System.
14. Un-clamp Rear Brake Line from the frame and Rear Fork.
15. Remove and discard both Banjo Bolts and Crush Washers from the Rear Brake Caliper and the Rear Brake Master Cylinder.
16. Remove Brake Light Switch from the Brake line, Save for reassembly.
17. Remove the Torx screw from the Brake Line bracket,
   Save the Torx screw for reassembly.
18. Remove and Discard Brake Line.
19. If Lower Controls option. Remove and Discard right and
    left floorboards/foot pegs, brake pedal, shifter, and shift
    linkage. Remove and Discard Passenger Foot pegs or
    Floorboards and their mounts. Then skip to step 24.
20. If Lower Controls Not purchased. Continue.
21. Remove acorn nut from Shift Linkage.
22. Remove 3 fasteners from Drivers Floorboard and
    remove.
23. Remove and discard Jiffy Stand.
24. Remove the Primary Cover by first removing the top and
    rear inspection cover screws.
25. Continue by removing remaining fasteners. 14 total.
26. Remove and discard Primary Cover Gasket.
27. Clean residual gasket material from both surfaces.
28. Loosen the Top Center Nut on the Primary Chain
    Adjuster. Lower the Primary Chain Adjuster until it rests
    flat on the Inner Primary Cover.
29. Remove the Clutch Lifter Retaining Ring from the Clutch
    Basket. Remove Clutch Lifter Assembly.
30. Using the Primary Drive Locking Tool. Loosen the
    Compensating Sprocket Nut.
31. Using the Primary Drive Locking Tool. Loosen the Clutch
    Hub Main shaft Nut. **WARNING:** This nut is LEFT HAND
    threaded.
32. Remove the Primary Drive Locking Tool, Compensating
    Sprocket Nut, and Clutch Hub Main shaft Nut.
33. Remove the Sprocket cover and Sliding Cam from the
    Crank Shaft Extension.
34. Remove the Clutch Assembly, Primary Chain,
    Compensating Sprocket, and Crank Shaft Extension in
    one assembly.
35. 5 Speeds only: Bend tab on the Starter Jack Shaft bolt Locking Plate away from the head of the Jack Shaft Bolt. Holding the Pinion Gear remove the Jack Shaft Bolt, Lock Plate, and Thrust Washer.

36. 5 Speeds only: Remove the Starter Jack Shaft Assembly from the Primary Chain case.

37. Bend lock plate tabs back where necessary and remove primary-to-engine mounting bolts first, next remove primary-to-transmission mounting bolts.

38. Remove the 2 starter bolts.

39. Remove Inner Primary Chain case and discard the o-ring or gasket.

40. Remove the two Rear shock nuts and the rubber bushings.

41. Remove nut and washer from Rear Fork Pivot Shaft.

42. Remove Rear Fork Pivot Shaft.

43. Remove and discard two spacers between transmission and Rear Fork and the two spacers from the inside of the spherical bearings.

44. Remove and discard the Rear Fork, wheel, caliper, Final Drive Belt, and rear shocks as an assembly.

Do not remove the Drive Sprocket from any model.


2007 – UP: Skip to “Front Drive Belt Installation” PAGE 12.
ALL MODELS

Do not remove drive sprocket unless installing Performance Gearing Set.

1. Remove the OEM sprocket, 5 speeds are Left hand thread and 6 speeds are Right hand threads.
2. Slide New CSC Performance Drive Sprocket onto the splines of the Main Shaft.
3. Lock Final Drive Sprocket with the Final Drive Sprocket Locking Tool.
4. Apply Loctite 262 to the threads of the Final Drive Sprocket Nut.
5. Finger tighten the Final Drive Sprocket nut.
6. Using Special Deep Well Socket and Pilot. Torque the Final Drive Sprocket Nut to
   5 Speed 60 ft-lbs
   6 Speed 35 ft-lbs
7. Scribe a straight line on the Final Drive Sprocket Nut and Final Drive Sprocket.
8. Tighten the Final drive Sprocket Nut an additional 35° to 40°.
9. Place the Final Drive Sprocket Lock Plate over the Final Drive Sprocket Nut and align the holes in the Final Drive Sprocket Lock Plate with the two tapped holes in the Final Drive Sprocket. If these two holes do not line up continue tightening the Final Drive Sprocket Nut to 45° maximum.
10. Reinstall the two ¼ - 20 SHCS with thread locking agent through the Final Drive Sprocket Lock Plate into the Final Drive Sprocket and torque to 90 – 110 in/lbs.
11. Install CSC Speedometer Calibrator
    a. 5 speeds are behind the battery box
    b. 6 speedo are in the back of the Transmission
2000-2006 5 Speed Front Drive Belt Installation:

1. Install **NEW CSC** Front Drive Belt.
2. Using a cloth strip Slightly compress the Primary Final Drive Belt until the Primary final Drive Belt is parallel coming off of the Final Drive Sprocket and tie. **WARNING:** DO NOT OVER CRIMP THE PRIMARY FINAL DRIVE BELT.
3. Install new Crank Case O-Ring or gasket onto the Crank Case.
4. Apply silicone sealant to the Crank Case around the two rearward holes.
5. Apply silicone sealant to the Transmission Case around all 4 holes.
6. Apply silicone sealant to the threads of the 6 bolts with Lock tabs.
7. Place the Primary Chain Case into position over the Crank Case and against the Transmission Housing.
8. Start the 2 bolts with flat washers into the 2 outer holes and the remaining 6 bolts with Lock tabs into the inner holes of the Primary Chain Case.
9. Tighten inner primary chaincase screws 1-8 to 17-21 ft-lbs in the sequence shown below.

10. Bend Lock tabs into place.
11. Place starter into position.
12. Insert the Starter Jack Shaft Assembly into the splined Coupling.
13. Insert the Jack Shaft Bolt into the Starter Jack Shaft. Ensure the key on the Lock Plate aligns with the slot. While holding the Pinion Tighten the Jack Shaft Bolt to 60-80 in-lbs.
14. Bend tab on the Lock Plate against flat on the Jack Shaft Bolt.
15. Install Alternator Rotor Spacer onto the Engine Sprocket Shaft if present.
16. Install the Clutch, Primary Chain, compensating Sprocket, and Shaft Extension as one assembly. Start the Clutch onto the Main Shaft first. Then align the splines of the Engine Sprocket Shaft with the splines in the Shaft Extension. Now align the splines in the Clutch with the splines on the Main Shaft.
17. Clean off old Loctite then apply two drops of Loctite 262 to the threads of the Compensating Sprocket Nut and Clutch Hub Main Shaft Nut.
18. Install the Sliding Cam and Sprocket Cover onto the Shaft Extension. Install the Compensating Sprocket Nut and hand tighten.
19. Install the LEFT HAND threaded Clutch Hub Main Shaft Nut and hand tighten.
20. Ensure the Primary Chain Adjuster is resting flat on the Inner Primary Cover.
21. Using the Primary Drive Locking Tool. Tighten the Compensating Sprocket Nut to 75 ft-lbs.
22. Tighten the sprocket nut an additional 45 to 50 degrees. (50 degrees MAXIMUM)
23. Using the Primary Drive Locking Tool. Tighten the Clutch Hub Main Shaft Nut to 70–80 ft-lbs. **WARNING:** This nut is LEFT HAND threaded.
24. Remove the Primary Drive Locking Tool.
25. Adjust free play in the Primary Chain by raising the Primary Chain Adjuster Shoe until there is only 5/8 – 7/8 inches of free play on the center of the upper strand. Once free play measurement is achieved tighten the Primary Chain Adjuster Captive Bolt to 25 ft-lbs.
26. Place the Clutch Release Plate into the Clutch with the stamped word “OUT” facing outwards.
27. Install the Retaining Ring into the bore of the Clutch Hub. Ensure the Retaining Ring is fully seated in to the Clutch Hub groove.
29. Turn the Clutch Adjuster Screw inwards until lightly seated.
30. Back out Clutch Adjuster Screw ½ to 1 turn. While holding the Clutch Adjuster Screw from turning, tighten the Clutch Adjuster Screw Jam Nut to 72–120 in-lbs.
31. Squeeze the Clutch Lever 3 times to its maximum limits.
32. Move Clutch Cable Adjuster away from the Jam Nut to remove free play in the Clutch Lever.
33. Adjust Clutch Cable free play until there is 1/16 to 1/8 inch gap between the Clutch Cable ferrule and Clutch Lever Bracket.
34. Tighten the Clutch Cable Adjuster Jam Nut. Slide the Rubber Boot over the Clutch Cable Adjuster.
35. Hang new Primary Chain Case Cover Gasket on Dowels.
36. Install the Outer Primary Chain Case Cover over the Primary Chain Case Cover Gasket.
37. Tighten primary cover screws 1-12 to 108-120 in-lbs in the sequence shown below.

38. Remove the 2 bolts still in the inspection cover. Remove and discard gasket.
39. Apply thread sealant to the Drain Plug and reinstall.
40. Fill the Primary Chain case with 32 oz. of the appropriate lubricant.
41. Install new inspection cover gasket and Torque cover screws to 84-108 In-Lbs.
2007-Current 6 Speed Front Drive Belt Installation:

1. Install **NEW CSC** Front Drive Belt.
2. Install new inner primary gasket with two white plastic tree clips saved from before.
3. Reinstall the inner primary and its fasteners. Torque to the 25–27 ft-lbs in the sequence below.

4. Place starter into position and tighten the two fasteners.
5. Install the Clutch, Primary Chain, compensating Sprocket, and Shaft Extension as one assembly. Start the Clutch onto the Main Shaft first. Then align the splines of the Engine Sprocket Shaft with the splines in the Shaft Extension. Now align the splines in the Clutch with the splines on the Main Shaft.
6. Clean off old Loctite then apply two drops of Loctite 262 to the threads of the Compensating Sprocket Bolt and Clutch Hub Main Shaft Nut.
7. Install the Compensating Sprocket Bolt and hand tighten.
8. Install the LEFT HAND threaded Clutch Hub Main Shaft Nut and hand tighten.
9. Using the Primary Drive Locking Tool. Torque the Compensating Sprocket Bolt to 100 ft-lbs then loosen bolt one full turn. Then final torque is 140 ft-lbs.

10. Using the Primary Drive Locking Tool. Torque the Clutch Hub Nut to 70–80 ft-lbs. **WARNING:** This nut is LEFT HAND threaded.

11. Remove the Primary Drive Locking Tool.

12. Place the Clutch Release Plate into the Clutch with the stamped word “OUT” facing outwards.

13. Install the Retaining Ring into the bore of the Clutch Hub. Ensure the Retaining Ring is fully seated in to the Clutch Hub groove.


15. Turn the Clutch Adjuster Screw inwards until lightly seated.

16. Back out Clutch Adjuster Screw ½ to 1 turn. While holding the Clutch Adjuster Screw from turning, tighten the Clutch Adjuster Screw Jam Nut to 72 – 120 in-lbs.

17. Squeeze the Clutch Lever 3 times to its maximum limits.

18. Move Clutch Cable Adjuster away from the Jam Nut to remove free play in the Clutch Lever. Adjust Clutch Cable free play until there is 1/16 to 1/8 inch gap between the Clutch Cable ferrule and Clutch Lever Bracket.

19. Tighten the Clutch Cable Adjuster Jam Nut. Slide the Rubber Boot over the Clutch Cable Adjuster.

20. Install the Primary Chain Adjuster with its fasteners and tighten.

21. Hang new Primary Chain Case Cover Gasket on Dowels.

22. Install the Outer Primary Chain Case Cover over the Primary Chain Case Cover Gasket.

23. Start thirteen ¼ - 20 SHCS with ¼ flat washers into the Outer Primary Chain Case Cover.
24. Torque the Outer Primary cover bolts to 108–120 in-lbs in the sequence below.

25. Apply thread sealant to the Drain Plug and reinstall.
26. Remove five ¼ - 20 torx head cap screws and the Clutch Inspection Cover.
27. Fill the Primary Chain case with 45 oz of Primary Chain case Lubricant.
28. Swab all lubricant from the Quad Ring groove in the Primary Chain Case Cover. Reinstall Quad Ring.
29. Using the five ¼ - 20 torx head cap screws replace the Clutch Inspection Cover. Torque to 84-108 in-lbs in the sequence above.

MODIFICATION OF FRAME:

1. It will be necessary to cut the plastic Electrical Bracket along the white line to allow the drive support to fit up to the transmission.
Picture before cutting.

Picture after cutting.
2. **2000 – 2007** Using a **1/2** drill bit. Drill out the threads in the rear tapped holes in the motorcycle frame. One per side.

**2008 – UP** Using a **3/8** drill bit. Drill out the threads in the rear tapped holes in the motorcycle frame. One per side.

3. **2000 – 2007** Cut frame horns off to allow for body installation later. Cut off highlighted frame sections per picture below.
Rear Fender, Body, and Wheel Removal:

1. Remove two lug nuts from each wheel and remove wheels.
2. Remove Rear Fenders by Removing 5 fasteners as shown.
Do not remove these Chrome fasteners.

3. Remove body. Remove and discard two 1/4 bolts, nuts, and washers installed only for shipping.
Rear Suspension Unit Installation:

1. Place Suspension Unit using a jack behind prepared motorcycle.
2. It will be necessary to remove oil drain hose from its fitting to install Drive Support.
3. It may be necessary to loosen the front engine mount bolts in order to align the Drive Support.
4. Slide Suspension Unit past the pivot shaft alignment for belt installation and reinstall oil drain hose.
5. Install the front drive belt onto the Drive sprocket.
6. Install new frame sleeves into each side of the frame.
7. Align and install Rear Fork Pivot Shaft with OEM flat washer from **LEFT to RIGHT**.
8. Install nut and flat washer and leave loose.
9. Install the right frame mount.

**NOTE: 2000 – 2007 MODELS.**

10. Using a 1/2-13 X 2 HHCS and flat washer from the inside out. Install it thru the frame and threading it into the frame mount.

**NOTE: 2008 – UP MODELS.**

11. Using a 3/8-16 x 1 3/4 HHCS and flat washer from the inside out. Install it thru the frame and threading it into the frame mount.
12. Insert two 3/8-16 x 1 3/4 SHCS thru the frame mount and into the upper and lower tabs on the suspension unit. Now install two 5/16 flat washers and two 5/16 nyloc nuts.
13. Tighten the three fasteners and the pivot shaft.
14. Do not install the left frame brace at this time.

**Lower Controls: If Equipped**

1. Using six chrome 3/8-16 x 1 FHSCS install the driver lower controls.
2. Install the shift linkage with the hardware provided.
Brake Line Installation:

1. Re-clamp the Wire Harness Clips that were previously used to clamp the Rear Brake Hose.
2. Reinstall the Rear Stop Lamp Switch into the new Rear Brake Hose. Use proper thread sealant on the Rear Stop Lamp Switch.
3. Install the Brake line manifold into its OEM location with the OEM hardware.
4. Reinstall the two wiring connectors onto the Rear Stop Lamp Switch.
5. Route the front half of the new Rear Brake Hose forward towards the Rear Brake Master Cylinder. The Rear Brake line will be to the inside of the frame at the Rear Brake Master Cylinder.
6. Using one Banjo Bolt and two Crush Washers. Install the banjo fitting onto the Rear Master Cylinder. Torque to specification.
7. Route the Rear Brake Hose along the Frame.
8. Use Cable Ties to hold the Rear Brake Hose to the Frame.
9. Route the Rear Brake Hose to the inside of the Frame and onto the Distribution Block.
10. Using the second Banjo Bolt and two Crush Washers, install the straight banjo fitting onto the Distribution Block.
11. Using Cable Ties, secure the Rear Brake Hose to the Frame and Frame mounts.
Brake bleeding procedure:

1. Using correct brake fluid, fill Rear Brake Master Cylinder Reservoir.
2. Using a vacuum bleeder, follow this procedure carefully.
   a. Rear caliper rear bleed valves outsides first then insides on each side.
   b. Rear caliper front bleed valves outsides first then inside on each side.
3. Hand bleed the system using the above sequence. Until all air is removed from the lines.
4. Allow the bike to set for a minimum of 20 minutes and recheck the pedal travel.
5. If there is excessive pedal travel on the first pump, repeat steps 3 and 4.

Exhaust Pipe Installation:

1. Install new exhaust gaskets.
2. Reinstall current exhaust if not replacing.
3. If equipped with optional exhaust. Refer to separate installation instructions.
4. Install O² sensors if equipped. If not install plugs provided.
Link to CSC Belt Tensioning video:

http://www.californiasidecar.com/support.html

Setting up the Sonic Tension Meter:

1. Turn power on, Push Select then 1.
2. Using the charts below in Front and Rear belt tensioning push Mass then the numbers, Width and so on.
3. For the Rear belt push Select then 2. Reverse belt can be number 3 and so on.

Using the Sonic Tension Meter:

1. The microphone placement over the belt is critical.
   a. The microphone should be in the middle of the belt width-wise.
   b. The microphone should be equally in-between the two Sprockets.
   c. The microphone should be between \( \frac{1}{4} \) and \( \frac{1}{2} \) an inch above or below the Belt.
2. Turn the Sonic Tension Meter on.
3. Ensure that the correct setting is displayed on the LCD screen.
4. Push MEASURE then gently tap the Belt with a wrench while holding the microphone in the correct position. A measurement in Lbs. of single span tension should display. If not continue tightening the Belt until a reading is displayed.
5. In noisy environments the Sonic Tension Meter may display errant numbers. If so use in a quieter area.
6. Always take at least THREE readings of the Belt tension and average the THREE readings to determine the actual tension of the Belt.
Tensioning the Front Drive Belt:

1. Loosen the four HHCS in the rear only on the left side. Next loosen the four clamping HHCS two per side and the one upper pivot shaft nyloc nut.
2. Tighten the Rear Drive Belt adjuster nuts until the slack is taken up on the Front Drive Belt.
3. Use the correct setting on the Sonic Tension Meter.
   
   **2000 – 2006**
   - MASS 007.9 g/m
   - WIDTH 028.0 mm/R
   - SPAN 0331 mm

   **2007 - CURRENT**
   - MASS 007.9 g/m
   - WIDTH 028.0 mm/R
   - SPAN 0341 mm

4. Check Front Drive Belt tension.
   - Both Belts: **130 - 150 lbs.** single span tension.
5. Once the correct belt tension is achieved tighten all fasteners previously loosened in step 1. Eight HHCS and one nyloc nut.
6. Verify belt tension.
7. If incorrect start back at step 1. If correct proceed to Rear Belt Tensioning.

**Tensioning the Rear Drive Belt:**

1. See diagram below.

2. Tighten the Rear Drive Belt Adjuster nuts until the slack is taken up on the Rear Drive Belt.
3. Use the correct setting on the Sonic Tension Meter.
   - **50mm wide Belt:**
     - MASS 007.9 g/m
     - WIDTH 050.0 mm/R
     - SPAN 0442 mm
4. Check Rear Drive Belt tension.
5. 50mm belt: **130 - 150 lbs.** of single span tension.
6. In the next step you are going to run the engine. Please be aware of the safety of all those involved. Make sure you have at least two lug nuts on each rotor and that they are tight.

7. To finish alignment, the belt must have at least 0.040 in clearance between edge of belt and fence on front Rear Drive Sprocket. Check this by starting the engine and placing it in second gear and simply let the engine idle. Checking the alignment by eye and centering the belt as it spins. If belt has correct clearance, go to step 9. If it does not have clearance, proceed to step 8.

8. Use the Left and Right Rear Drive Belt Adjuster Nuts to align belt in order to achieve the necessary belt clearance. NOTE: The belt will always track to the side of the sprocket that is the loosest. Repeat step 4.

9. Once the correct belt alignment and single span tension is achieved, tighten the eight 5/16 – 18 x 1 ¼ SHCS that go into the Carrier Bearing Support Housings.

10. Install two 7/16 – 14 hex jam nuts onto the Rear Drive Belt Tensioning Studs and tighten.

11. Verify belt tension and alignment.

12. If all is correct move on to next step. If not loosen clamping bolts and return to step 4.

**Service Limits on Drive Belts:**

1. Service limit on the Front Drive Belt is 130 - 150 lbs.
2. Service limit on the Rear Drive Belt is 130 - 150 lbs.
**Gravel Pan Installation:**

1. Install the Gravel Pan under the tab on the Lower Rear Mount with three 1/4 – 20 x 3/4 HHCS three flat washers and three nyloc nuts.
2. Raise the front of the Gravel Pan and secure with two strap clamps and two 1/4 – 20 x 3/4 HHCS, four flat washers and two nyloc nuts.
3. In the center use the two middle mounts, four 1/4 – 20 x 3/4 HHCS, four flat washers and four nyloc nuts.
4. Align and tighten all fasteners.
Suspension Setup:

Use this chart to select the correct spring preload. Rotate the adjuster nut on the shock until the spring is set to the desired length. Now tighten the set screw on the adjuster nut or tighten the lock nut on the fully adjustable shock.

**Load:** Typical weight the customer adds to the stock trike. This includes riders, luggage, and weight of a trailer tongue.
When in doubt assume a higher weight than actual.

**Length:** Suggested length the spring should be adjusted to with the suspension completely unloaded and the preloader adjusted all the way in.

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<tr>
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<td>10 16/6</td>
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<tr>
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<td>10 7/8</td>
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</tr>
<tr>
<td>300 LB/IN SPRING</td>
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<td>12 5/8</td>
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<td>400</td>
<td>12 1/2</td>
<td>500</td>
<td>12 5/16</td>
</tr>
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</table>
1. Install preload adjuster now if equipped. Refer to separate installation instructions.

These lengths are only estimates. If you would like to confirm a correct setting, load the completed trike to the customers typical riding situation and measure from the ground to the middle of the lower suspension plate. The center hole should be 5.75” – 6.25” from the ground. **Attention:** This is the only suspension adjustment needed. All other settings are factory set and should not be tampered with. There is no need to remove trike from the lift to check camber, toe, or the drop links.
Trike Body installation:

1. If installing Electric Reverse. Install the controller to the Adjustable 90° Support Bracket with two zip ties using slots provided. Refer to separate instructions.
2. Remove right side frame mount previously installed.
3. Install the six grommets into the body.
4. Lower the body onto the trike with the front of the body pointing downward until it comes to rest onto the upper tray and body frame.
5. Reinstall right side frame mount using the same hardware and thread locking agent on the HHCS.
6. Install the left side frame mount the same as the right.
Trike Body alignment:

1. The Trike Body can move left, right, forward, backward, up, down, and angled. Shimming with the provided 1/4 and 1/8 Rubber Washers may be required to get the Trike Body into alignment.
2. First raise the front of the body to obtain the vertical location around the passenger foot peg location.
3. Then slide the body front to back to get the horizontal location.
4. With the body temporarily held into place, raise the adjustable 90° body support bracket until it seats against the body’s inner liner.
5. Tighten the two 5/16 – 18 x 3/4 HHCS and two 5/16 – 18 nyloc nuts on the Adjustable 90° Support Bracket.
6. Center the Trike Body left to right with the suspension.
Securing the trike body:

1. Using a scribe mark the two holes on the Adjustable 90° Support Bracket. Lift the body up and use a 5/16 twist drill, drill up through the scribed holes.
2. Lower the body back down onto the Adjustable 90° Support Bracket and insert two 5/16–18 x 1 ¼ HHCS, two 5/16 x 1 ½ fender washers.
3. Loosely install two 5/16–18 nyloc nuts and two 5/16 flat washers.
   **Note:** A small section of Trike Body Carpet has not been glued at the location of the Trike Body Frame mounting tabs to allow removal of the bolts used in shipping, and installation of the Trike Body mounting hardware. The predrilled bolt holes may need to be enlarged or relocated for Trike Body attachment to the Trike Body Frame mounting tabs. If relocation is necessary, the preexisting holes will need to be sealed with silicone sealant.
4. Using a 5/16 twist drill, drill up through the Trike Body Frame mounting tabs.
5. Insert two 5/16–18 x 1 ¼ HHCS, two 5/16 x 1 ½ fender washers, and rubber washers if necessary through the holes.

6. Install two 5/16–18 nyloc nuts and two 5/16 flat washers onto the 5/16–18 x 1 ¼ HHCS and tighten all four.

7. Install the four suspension covers with Phillips screws.
8. Using existing bolts install new ECM mount plate to rear of motorcycle frame so that it is pointing up and rearward. Install ECM using four 10-32 nyloc nuts.
Reassembly of the Trike:

1. Replace the 15 AMP “lights” fuse with the 20 AMP fuse provided.
2. Connect Body Wiring Harness connector under the Frame to the Rear Fender Wiring Harness Connector.
3. Connect the red wire with Fuse Holder to the Positive Battery terminal.
4. Reconnect the negative battery terminal and the new white wire from the Tike Body Wiring Harness.
5. Install new Custom seat.
6. Reinstall rear fenders and adjust if necessary.

Final Reassembly of the Trike:

1. Reinstall the wheel and tire assemblies with ten m12 x 1.5 ET conical lug nuts. Torque to 75 FT-LBS.
2. Recommended tire pressure
   17” wheels – 25 psi

Refer to the Maintenance Schedule on p. 4 for details regarding future service inspections and maintenance.

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