Trike
Owner’s Manual
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Maintenance Schedule

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<thead>
<tr>
<th>Item</th>
<th>Frequency</th>
<th>Daily</th>
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I: Inspect and clean, adjust, lubricate, and/or replace if necessary.
R: Replace
L: Lubricate with Silicone Spray

REAR TIRE PRESSURE  28 PSI
T: Check Torque of Head Bearings (top nut 80 ft.-lbs. adjuster nut 30 ft.-lbs.)

This Schedule is in addition to the Honda Maintenance Schedule

NOTE:
[1] Minimum pad thickness is .04 inches (1.02mm)
[3] Rear end oil should be changed after the first 3 months or 3,000mi., whichever comes first. Rear end oil should then be changed every 12 months or 20,000mi. Use only NON-synthetic 80W-90 GL-5 gear oil. The differential case should contain no more than 1 qt of gear oil.

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

Service & Maintenance questions – contact Parts & Service at 434.263.8866
## Maintenance Schedule: BELT DRIVE

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<th>Item</th>
<th>Frequency (miles)</th>
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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 with 15” & 16” wheels
25 PSI with 17” wheels

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

**NOTE:** This Schedule is in addition to the OEM 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.
CSC Brake Pad Replacement

(ALL CSC TRIKES)

1. Raise the rear end off the ground and properly support it in a stable position.
2. Remove the rear wheels.
3. Do not remove calipers from brackets.
4. Remove cotter key from brake pad pins.
5. Remove the pins by sliding them out from the backside.
6. Remove brake pads and replace with new ones.
7. Reinstall pins and cotter keys.
8. Repeat on other side and replace wheels.
9. Pump rear brake pedals to build up pressure before riding.
Brake Bleeding Procedure  
*(GL1800 ONLY)*

1. Using a vacuum bleeder remove all brake fluid from the rear brake reservoir and wipe clean with a **CLEAN** towel.
2. Fill reservoir with new DOT4 brake fluid from a **SEALED** container.
3. Remove front fender A and the chrome caliper covers.
4. Using a vacuum bleeder, be sure to **thoroughly** flush the brake system of all old fluid while following this procedure **carefully**.

   a. Front Wheel: Left front upper bleed valve.
   b. Front Wheel: Right front lower bleed valve.
   c. Rear caliper rear bleed valves outsides first then insides on each side.
   d. Front Wheel: Anti-dive bleed valve. **When bleeding the Anti-dive.** Pump the pedal then open the bleed valve, with the bleeder open push the left front caliper up in order to operate and flush the secondary master cylinder. Close the bleeder and repeat this until you get clean fluid.
   e. Rear caliper front bleed valves outsides first then inside on each side.

This is the same bleeding procedure that is in the **Honda service manual for the GL1800 Goldwing.**
5. Hand bleed the system using the above sequence. Until all air is removed from the lines.
6. Allow the bike to set for a minimum of 20 minutes and recheck.
7. If there is excessive pedal travel on the first pump, repeat steps 1 through 3.
NOTE: IF ABS equipped DO NOT use a vacuum bleeder hand bleed only.

1. Using a vacuum bleeder, follow this procedure carefully.
2. Using the correct brake fluid fill the Rear Brake Master Cylinder Reservoir.
   a. Bleed the Right Caliper Bleed Valves outers first then inners.
   b. Bleed the Left Caliper Bleed Valves outers first then inners.
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.
5. If there is excessive pedal travel on the first pump, repeat steps 1 through 4.
6. Top off the Rear Brake Master Cylinder Reservoir with the correct brake fluid. Clean and reinstall the Rear Brake Master Cylinder Reservoir Cover.
1. With brake handle down, adjust caliper lever on both sides, with square head bolt so brake pads barely free-float on the brake rotor. Secure with lock nut.

2. Test brake calipers and handle to ensure proper function. The calipers should lock the rotor after 3 to 5 clicks of the handle. Re-adjust as necessary.
HALFSHAFT BOOT MAINTENANCE

(ALL CSC TRIKES)

1. Clean and inspect each boot for wear, cracks or tears.

2. Make sure that all boot-clamps are still secure.

3. Inspect for any rubbing from the exhaust tail pipes or suspension components.

4. Using Silicone Spray. Spray a liberal amount onto each boot and rub it in with your hands.

5. This will keep the boots soft and supple.
CSC Trikes prior to 2010 R&R Half Shaft
(Steel Adjustable A-Arms)

Removal of the Half Shaft:

1. Place the trike onto the center stand on a suitable lift.
2. Remove the rear wheel.
3. Remove the half shaft nut from the wheel bearing.
4. Remove the 1/2 – 20 nyloc nut from the bottom of the upright.
5. Remove the four 1/4 – 20 x 1/2 socket head cap screws from the upright plate.
6. Remove the upright plate, lower a-arm spacer, lower a-arm rod end, and another lower a-arm spacer from the upright.
7. While pulling downward on the half shaft rotate the upright upwards and remove the half shaft from the wheel bearing.
8. Support the upright in the upward position.
9. With the bike in gear rotate the half shaft and pull it outwards to remove from the retaining clip. Sometimes a few small taps from a dead blow hammer is needed to remove the half shaft.

Installing the new Half Shaft:

1. Lubricate the outside of the half shaft seal area and the splines with suitable multi-purpose grease.
2. With the clip opening pointing upwards, slide the half shaft onto the stub shaft fully engaging the splines.
3. Slide the male splines into the wheel bearing.
4. Replace the lower a-arm spacer, lower a-arm rod end, lower a-arm spacer and upright plate.
5. Using loctite 262 replace the four 1/4 - 20 x 1/2 socket head cap screws and tighten.
6. Replace the ½ - 20 nyloc nut and tighten.
7. Install the Half Shaft nut using Locktite.
8. Replace the wheel assembly.
9. Remove the bike from the lift.

**Torque Specifications:**

1. ¼ - 20 x ½ socket head cap screws 9 ft. - lbs.
2. ½ - 20 nyloc nut 45 ft. - lbs.
3. Lug nuts 70 ft. - lbs.
4. Axle nut 200 ft. - lbs.
CSC Trikes 2010 to Current / R&R Half Shaft
(Aluminum A-Arms)

Removal of the Half Shaft:

1. Place the trike onto the center stand on a suitable lift.
2. Remove the rear wheel.
3. Remove the half shaft nut from the wheel bearing.
4. Remove safety clip from bottom of upright.
5. Tap roll pin out threw upright.
6. While pulling downward on the half shaft rotate the upright upwards and remove the half shaft from the wheel bearing.
7. Support the upright in the upward position.
8. With the bike in gear rotate the half shaft and pull it outwards to remove from the retaining clip. Sometimes a few small taps from a dead blow hammer is needed to remove the half shaft.

Installing the new Half Shaft:

1. Lubricate the outside of the half shaft seal area and the splines with suitable multi-purpose grease.
2. With the clip opening pointing upwards, slide the half shaft onto the stub shaft fully engaging the splines.
3. Slide the male splines into the wheel bearing.
4. Replace the lower roll pin and safety clip ensure clip is fully seated in grove.
5. Lubricate the threads on the half shaft with motor oil and torque the axle nut to spec.
6. Replace the wheel assembly.
7. Remove the bike from the lift.

Torque Specifications:

- Lug nuts 70 ft. – lbs. – Axle Nut 200 ft. – lbs.
Half Shaft Boot Replacement

*(ALL CSC TRIKES)*

Removal of the Half Shaft:

1. Refer to Half Shaft removal instructions.

Removal of inner C.V. boot:

1. Cut and remove both the small and large C.V. boot clamps.
2. Clamp the shaft in a vise with the inner C.V. joint pointing upwards.
3. Slide the C.V. boot down the shaft.
4. Remove inner wire retaining ring from the C.V. joint outer race.
5. Pull the C.V. joint outer race off the tripod joint.
6. Clean the grease from the tripod joint and C.V. boot, place new grease back into the C.V. joint outer race.
7. There is one method of retaining the tripod joint onto the shaft. A snap ring on top of the tripod joint.
8. Remove the snap ring from the shaft and press the tripod joint from the shaft noting the top of the tripod joint.
9. Remove the C.V. boot from shaft.

Removal of Outer C.V. Boot:

1. If you are changing an outer boot you will do it now. First scribe a line on the shaft marking where the boot was. Now lightly lubricate the small end of the outer boot install lining up the mark.
2. Lightly lubricate the small end of the new C.V. boot and slide down the shaft.
3. Replace the tripod joint back onto the shaft with the correct end pointing outwards. Press the tripod joint onto the shaft until fully seated. Replace the snap ring onto the shaft.

4. Ensure the C.V. joint outer race is approximately 1/3 full with Molybdenum-Disulfide grease to properly lubricate the tripod joint.

5. Slide the C.V. joint outer race onto the tripod joint. This may require rolling the C.V. joint outer race around the joint while sliding on.

6. Replace the inner wire-retaining ring into the C.V. joint housing.

7. Clean grease from the groove on the C.V. joint outer race and the key inside the C.V. boot.

8. Slip the C.V. boot onto the C.V. outer race.

9. Using the long C.V. boot clamp, wrap the band around the joint in the groove. Slide tip of band into the slot in the clamp. Tension the band until a slight distortion in the boot is evident. Fold the band over the clamp and tap the two tabs over the band until completely crimped. Cut the excess band off.

10. Type-A: This shaft has a longer C.V. boot spacing, slide the small end of the boot into the groove of the shaft and clamp as in step 16.

11. Type-B: This shaft has a shorter C.V. boot spacing, measure the gap in between the C.V. boots. This gap should be 2 inches apart. Clamp the C.V. boot as in step 16.

**Re-installing the Half Shaft:**

1. Refer to Half Shaft reinstallation instructions.
R&R Wheel Bearing
(ALL CSC TRIKES)

Removal of Wheel Bearing:

1. Place the trike on the center stand on a suitable lift.
2. Remove the five lug nuts and the wheel assembly.
3. Remove the two 3/8 – 24 x 1 button head cap screws and the brake caliper. You may need to mildly heat these to soften the Loctite.
4. Remove the brake rotor.
5. Remove the half shaft nut from the wheel bearing.
6. Remove safety clip from bottom of upright.
7. Tap roll pin threw upright.
8. While pulling downward on the half shaft rotate the upright upwards and remove the half shaft from the wheel bearing.
9. Support the upright in the upward position.
10. Remove the three 1/2 – 20 x 2 cap screws, three 1/2 – 20 nyloc nuts, and three 1/2 special washers.
11. Remove the wheel bearing assembly.

Installation of the NEW Wheel Bearing Assembly:

1. Install the new wheel bearing into the upright.
2. Reinstall the three 1/2 – 20 x 2 cap screws and special washers from the inside of the upright into the wheel bearing.
3. Reinstall the three 1/2 – 20 nyloc nuts and torque to specification.

WARNING: Ensure that the flats on the nut do not engage the outside diameter of the wheel bearing.
4. Lubricate the splines on the half shaft with suitable multi-purpose grease.
5. Slide the male splines into the wheel bearing.
6. Replace the lower a-arm and roll pin w/safety clip.
7. Lubricate the threads on the half shaft with loctite and tighten the half shaft nut. Torque to 200 ft/lbs.
8. Reinstall the brake rotor.
9. Reinstall the brake caliper.
10. Reinstall the two 3/8 – 24 x 1 Hex head cap screws with Loctite applied and torque to specification.
11. Reinstall the wheel assembly.
12. Remove the trike from the lift.

Specifications:

1. Lug Nuts 70 ft. – lbs.
2. Axle Nut 200 ft. – lbs.
3. Brake Caliper 30 ft. – lbs.
Replacement of GFX & Reverse Bulbs

(ALL CSC TRIKES)

1. Locate rubber socket cover over backside of reverse/ground effects bulb housing. Remove by pulling it off.
2. Locate the #2 Philips head screws in the center of the housing and remove screw. Remove with black ground wire.
3. Remove bulb, cut white wire.
4. Using a wire connector, connect the white wire to the new bulb.
5. Reinstall in reverse order and test.
With one finger, turn clockwise until you feel tension. Loosen set screw and rotate knob counter clockwise to 9:00 o’clock.

Re-tighten set screws and there will be tension at the start of 9:00 o’clock.
Lubricate the Output Shaft Splines.

**WARNING:** Do not clamp the drive shaft in a vise without a set of rubber or urethane soft jaws.

1. Pack the Rzeppa cross groove joint on the drive shaft with the provided grease until flush with both sides.
2. Using the provided silicone, lay a bead approximately 3/16 in width around the Rzeppa cross groove joint’s diameter and holes on both sides. Also, lay a small bead around the Rzeppa cross groove joint adapter’s counter bore.
   
   **Note:** Allow the silicone to cure for a **MINIMUM** of 3 hours before operating the drivetrain.
3. Slide the spring onto the drive shaft.
4. Lubricate the splines on the drive shaft.
5. Tap the slip yoke onto the mating drive shaft splines until the spring slightly compresses.
6. Align the splines of the slip yoke and output shaft and slide on the assembled driveshaft.
7. Swing the Rzeppa cross groove joint into place.
   
   **WARNING:** Do not put excessive pressure onto the Delrin disk when installing the drive shaft.
8. Make sure the heel of the drive shaft rests on the Delrin disk.
9. Align the clearance holes in the Rzeppa cross groove joint with the bolt holes in the Rzeppa cross groove joint adapter.
10. Install six 5/16-18 x 1 ¾ socket head cap screws into the Rzeppa cross groove joint adapter bolt holes. Torque to specification with thread locking compound.
   
   **Note:** Re-torque the six 5/16–18 x 1 ¾ socket head cap screws after the first 100 miles.
11. Make sure the front surface of the yoke is in full contact with the output shaft flange and the Rzeppa cross groove joint boot is secured **BELOW THE FIRST** retaining groove on the driveshaft.

**Specifications:**

1. Lug Nuts 70 ft. – lbs.
2. Driveshaft Bolts 18 ft. – lbs.
1. Loosen the four 3/8 HHCS from underneath the lower tray that secure the differential.
2. Remove the 2 u-bolts or the u-joint gridles.
3. Slide the rear differential all the way rearward.
4. Remove the driveshaft.
5. Inspect the driveshaft and u-joints for damage.
6. Using Moly grease, grease the front mating splines (front of the driveshaft and transmission output shaft).

7. Place the driveshaft into the rear yoke and secure with two u-bolts, lock washers and nuts.

**ABS Equipped Motorcycles:**

8. Install the ABS sensor mount with three 5/16 BHCS.
9. Install the driveshaft with two u-joint gridles, 5/16 SHCS, the abs ring then secure with nyloc nuts.
10. Moving the rear differential forward. Align the driveshaft to the output shaft.
11. Slide the rear differential all the way forward.
12. With the right front engine side cover removed confirm that the driveshaft is forward and fully seated on the transmission output shaft.
13. Tighten the four 3/8 HHCS and nyloc nuts that secure the differential to the lower suspension tray.
Rear-End Oil Change
(GL1500 & GL1800 CSC TRIKES)

1. Place the trike onto the center stand on a suitable lift.
2. Remove left rear wheel and support trike.
3. Drain rear-end oil from both gear case & differential
   see diagram for drain plug locations.
4. Remove both the check level and the fill plug on gear
case
5. Remove the fill plug on rear differential
6. Install both drain plugs.
7. Refill with 80/90 GL5 rated oil (non-synthetic)
8. See diagram for oil amount do not over fill.
9. Replace gear case check level plug hand tighten only.
10. Replace both differential & gear case fill plugs.
11. Replace wheel.
12. Remove from center stand and enjoy the ride.

Specifications:

1. Differential drain-plug 22 ft-lbs.
2. Rear wheels 70 ft-lbs.
3. Both differential and gear case fill plugs 22ft-lbs.
4. Gear case drain and check level plugs hand tighten only.
Depending on the year of your Trike kit - Your Rear Differential may appear different but the concept is all the same.
1. Remove light bar from rear of body. Lay lens side down on a soft area not to scratch the light bar.
2. Remove silicone from around the LED light backer’s w/led strips as one piece leaving the lens intact with light bar.
3. Clean off the extra silicone away from inside of light bar.
4. Place new backer with led strip in back of light bar.
5. Silicone the outside of the backer and let dry completely before reinstalling into trike body.
NOTICE
Trailering a CSC

If you plan on trailering your trike, please use this diagram for proper tie down procedure. Failure to do so may result in damage to the trike shock and/or suspension components. When strapping down your trike please hook your tie downs on the inside of your lower control arms. Then cross them for a more security. Chose a strong point in the front such as the lower frame tube, engine guard, or lower triple clamp.

Securing your trike in this manner will compress the suspension so it does not bounce around with the trailer. This will greatly limit the movement of your trike when it is in tow.

From all of us at California Sidecar...Enjoy the Ride!
NOTICE

Jacking point on a CSC

The jacking point on a CSC is shown below in the diagram. Jacking point is in the center. NOT on the side.