



## ASSEMBLY/INSTALL INSTRUCTIONS

### Can-Am X3 Rear Spindles (Set)

#### C-109S

Your set should come with the following:

- (1) C-109S-L (Left/Driver Side Spindle)
- (1) C-109S-R (Right/Passenger Side Spindle)
- (2) 12-point bolts (Installed)
- (2) Washer (Installed)
- (2) Nylock nuts (Installed)
- (2) Wheel bearing (Installed)
- (2) 4140 Chromoly Black Oxide Bolt-On Cap

Tools/Hardware Needed:

- Jack/jack stands
- Ratchet or impact
- 12-point 12mm socket
- 18mm socket
- 18mm wrench
- 19mm wrench
- 30mm socket
- Pliers
- Flathead Screwdriver
- Loctite
- Factory Red Grease (recommended)
- Hammer/Rubber Mallet
- Breaker bar
- C-Clamp or Vice
- Prybar (optional)
- Ball joint spreader (optional)
- Cotter pin (optional)

## Install Instructions:

### Uninstalling current spindles:

1. Make sure you are on flat, level ground before working on your car. Loosen the lug nuts on both front wheels and jack up car off the ground. Place the car on jack stands and make sure the car is secured on them. *The vehicle's owner's manual will provide you with proper places to lift and support your car if you are unsure.*
2. Take both rear wheels off and place to the side.
3. If your hub has a dust cap, remove with a small flathead screwdriver. Remove the cotter pin with your pliers and then the castle nut and washer using your 30mm socket and breaker bar. Make sure your brakes are engaged while loosening the castle nut. Set castle nut and washer aside.
4. Remove (2) 15mm bolts on the caliper bracket using the 15mm tools. Make sure you hang the caliper and bracket to the side securely and safely to ensure the brake line isn't pulled on. *We found that zip-tying the caliper to the springs helps keep it out of the way and safe.*
5. Remove hub and rotor and set aside.
6. Remove lower guard with 10mm wrench and set aside.
7. *Before removing the radius rods, you can remove the lower bolt at the shock to allow for more movement of the trailing arm. This will help later with installing the radius rods into the new spindle. (Optional)*
8. Using your 18mm tools, loosen the hardware holding the lower radius rod. Let radius rod hang and set hardware to the side.
9. Then, using your 18mm tools again, loosen the hardware holding the upper radius rod. Let radius rod hang and set hardware to the side.
10. Using your 18mm socket and 19mm wrench, loosen the hardware holding the middle radius rod. Let radius rod hang and set hardware to the side.
11. Remove spindle and set aside.

### Installing new spindles:

12. Grab the new spindle installed with wheel bearing, bolt-on cap and hardware. Uninstall the lower a-arm hardware from spindle and keep close. Make sure the L is on the left/driver side and R is on the right/passenger side.
13. *Before installing the new spindles onto the car, use your C-Clamp or vice to press your o-rings down. The o-rings should now be seated inside the spherical bearing bore.*
14. Slide new spindle onto the car with the axle through the center of the wheel bearing. Line up the upper and lower part of the spindle with the openings in the trailing arm.

15. Starting with the lower radius rod, first you will need to hold the middle rod in place while you place the lower radius rod in the trailing arm. Loosely place your factory hardware through the lower radius rod, spindle, and trailing arm.
16. Next, you will install the middle rod through the double sheer opening in the spindle using your new hardware provided with your kit.
17. Then, re-install the upper radius rod.
18. Tighten all hardware. *Torq the 12-point bolt provided to 62 ft. lbs.*
19. Regrease axle splines with factory recommended grease.
20. Place hub and rotor back onto the axle. *Greasing the outside of the shaft could make it easier to install.*
21. Loosely install the original castle nut and washer.
22. *If you decided to remove your lower shock bolt, install the shock back on the car.*
23. Grab your caliper and install back onto the rotor and spindle. Make sure to use Loctite on your original 15mm hardware using your 15mm tools to tighten.
24. Now that everything is back on the car, you can engage the brakes and tighten your castle nut with your 30mm socket and breaker bar. Install the original cotter pin using your pliers.
25. Install wheels back on car.
26. Remove jack and jack stands from car.
27. Torque wheels to spec.

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