



**WILDCAT XX DUAL-PLUNGE REAR AXLE
INSTALLATION MANUAL**

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Tools needed:

Sockets [mm]: 13 (deep), 19, 30

Wrenches [mm]: 15, 18

Allen [mm]: 4, 8, 10

Allen [in]: 1/8 (long)

Drills: 1/8, 3/8, 1/2 (or stepper)

Other: Tape measure, floor jack, block of wood, (2) jack stands, impact gun, drill, torque wrench, bearing grease (Mobil 1 Red)

Please call Robby Gordon Motorsports if you have any questions/concerns at 704-949-1255

Installation

1. Jack up rear of vehicle and place jack stands under vehicle to stabilize it.
2. Remove rear wheels.
Tool: 19mm socket
3. Remove brake calipers.
Tool: 13mm socket
4. Remove axle nut retainer plate and remove axle nut and washer.
Tool: 30mm socket
5. Remove hub/rotor together by pulling it off.
6. Remove trailing arm bearing housing
Tool: 8mm Allen



Skid plate and transaxle drilling

7. Print out rear axle drill template.
8. Align on rear of car using the two holes and two Torx bolt heads shown on the paper. Tape in place.
9. Fold bottom of paper down and tape in place.
10. Mark holes and drill skid plate and transaxle case according to template.

Stock axle removal

11. Put car in 2WD and in neutral.

12. Rotate axle so that set screw can be accessed.
13. Turn inboard CV housing set screw ½ turn CCW.

Tool: 4mm Allen



14. Pull axle out: position axle parallel with the ground and pull by gripping the outer CV housing and axle shaft.
Note: O-ring may fall off



Axle setting

- 15.** Remove both shock bolts and shock from one side of vehicle.

Tools:

Upper- 15mm socket, 18mm wrench

Lower- 10mm Allen, 18mm socket

- 16.** Remove sway bar bolt from both sides of vehicle. Rotate sway bar up and out of the way so suspension can be cycled.

Tool: 13mm wrench, 15mm socket

- 17.** Rotate free trailing arm (no shock attached) upwards so that the hole for the axle is aligned with the hole in the transaxle. Support trailing arm using a jack, jack stand, block of wood, etc. Make sure holes are aligned by checking height from the floor to the center of the transaxle and from floor to the center of the trailing arm hole.



- 18.** Measure from outer face of transaxle hole to outer face of trailing arm hole.

Measurement should be:

Stock: 25.38"

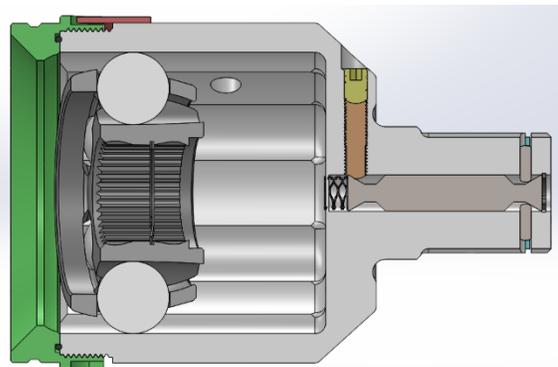
Speed 72: 28.75"

Speed 77: 31.47"

Turn outer rod end on trailing arm to adjust until the correct length is set.



Install Speed axle



Inner CV Section

- 19.** Remove double lock set screw (yellow).
Tool: 1/8" Allen
- 20.** Remove locking set screw (orange).
Apply grease to tip of set screw.

- 21.** Reinstall locking set screw and tighten.
You will see the retaining ring come out of the groove on the splines. This is the locked position.
Tool: 1/8" Allen
- 22.** Turn locking screw **2 and a 1/2 turns** counterclockwise to unlock. The clip will go back in the groove on the splines.
Tool: 1/8" Allen
- 23.** Grease splines and stub on axle using Mobil 1 Red grease.
- 24.** Insert Speed axle through hole in trailing arm and insert CV stub into transaxle. Make sure to rotate axle so the locking screw will line up with the access hole previously drilled in the transaxle. Also make sure CV stub is fully inserted into transaxle.
- 25.** Insert 9" long 1/8" Allen through skid plate hole and turn locking set screw **2 and 1/2 turns** clockwise to lock CV axle into transaxle.
Tool: 1/8" Allen

Note: If it will not turn 2 and 1/2 turns then the CV is not fully into the transaxle. Not having the CV fully in the transaxle will not allow the locking mechanism to work and your axle will pop out. This will result in your transaxle looking like the one in the following picture.



- 26.** Insert double lock set screw. Apply Blue Loctite to screw threads if you would like.
Tool: 1/8" Allen

Reassemble vehicle

- 27.** Install trailing arm bearing housing. Make sure to orient correctly with caliper mount to the rear. Start all 6 bolts by hand before using an impact.
Tool: 8mm Allen
Torque bolts to 45 ft-lb



28. Install hub/rotor by aligning it with axle splines and pushing on until axle threads stick out. Put stock axle washer on axle and thread stock axle nut on over washer.

29. Attach brake caliper.

Tool: 13mm socket

Torque bolts to 45 ft-lb

30. Install shock that was removed.

Tools:

Upper- 15mm socket, 18mm wrench

Lower- 10mm Allen, 18mm socket

Torque bolts to 65 ft-lb

31. Attach sway bar on both sides.

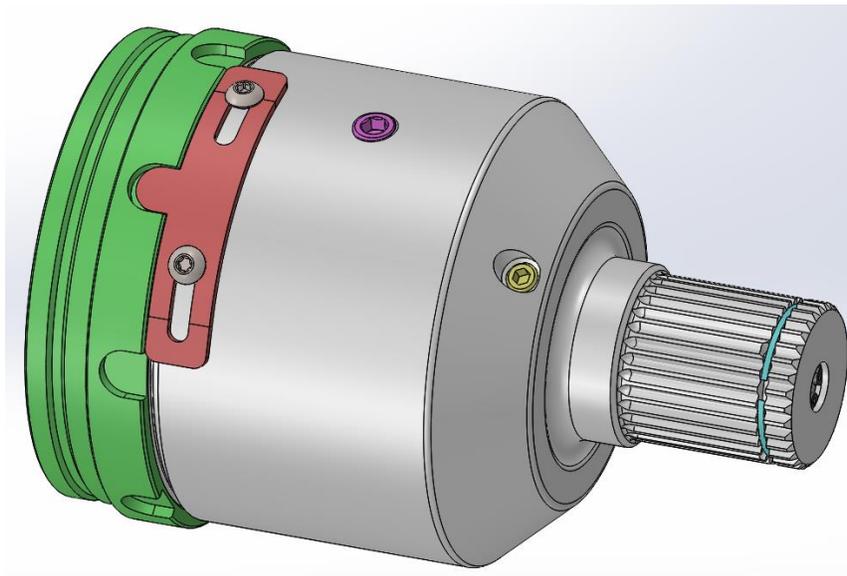
Tool: 13mm wrench, 15mm socket

Torque bolts to 45 ft-lb

32. Place axle nut retainer plate over axle nut and put wheel back on.

Tool: 19mm socket

Care



Speed XX Dual-Plunge Rear Axle Inner CV

- Grease splines and stubs
- Grease screw (pink) can be removed and a grease fitting can be installed to grease CV. Reinstall screw after greasing.
- To open CV
 - Unscrew two Torx button head screws and remove retaining clip (red)
 - Unscrew housing retainer (green)