



# SANDCRAFT MOTORSPORTS DRIVELINE & CARRIER BEARING PRO R INSTALLATION INSTRUCTIONS

## THANK YOU FOR PURCHASING THIS KIT FROM SANDCRAFT!

Please read the instructions completely before beginning installation.

### TOOL LIST:

Socket - 21,19,18,8,16,15,T40

Wrench - 13,21,18

3/16 open punch

hammer or mallet

pliers

jack, jack stands



**FOR CARRIER BEARING ONLY INSTALLATION, USE STEPS 22-27.**

1. Remove bottom Limit Strap hardware (if applicable).
2. Raise the vehicle, secure with jack stands.
3. Remove the front wheels.
4. Remove the sway link lower end hardware.
5. \*IMPORTANT: Use a strap to secure the upper control arm to a vehicle tie down point. Unsecured suspension hanging weight WILL damage the inner Tie Rod End.
6. Remove the 30mm Axle Nut.
7. Remove the Lower Ball Joint Nut.
8. Remove the Outer Tie Rod End from the Knuckle.
9. Remove the 2 Brake Hose Bolts from the knuckle.
10. Remove Brake Caliper Hanger Bolts (X2).  
NOTE: Zip Tie the Brake Caliper Assembly to the Rotor at this point to keep the Brake Components assembled.
11. Carefully shock the Lower Ball Joint Knuckle to break it free.



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12. Remove the Upper Ball Joint Pinch Bolt. Pull the Knuckle down and away from the vehicle to remove.
13. Remove Lower Shock Mounting Bolt.
14. Remove axle from vehicle. Repeat axle removal steps on PS.
15. Remove Bumper Fascia to gain access to Control Arm Bolts.
16. Remove DS Upper Control Arm Bolts and remove Upper Control Arm from vehicle.
17. Remove the 5/16" roll pin from the DS Driveline at the Differential Pinion. NOTE: Be careful not to overdo this, you could bottom out on the solenoid and lock the drivetrain in place.
18. Unplug 2 actuator solenoids on the Differential.
19. Remove Vent Hose from DS of the Differential.
20. Using a wrench on the Passenger Side, and socket on Driver Side, remove 2X 18mm Differential mounting bolts. Remove the Differential from the vehicle.
21. Remove the front half of the OE Driveline through the front of the vehicle.

## **FOR CARRIER BEARING INSTALL ONLY**

22. Remove the skid plate with 10mm bolts ONLY to expose the cross-member mounting hardware.
23. Remove 4X 13mm cross member bolts. The cross member will come down with the driveline and carrier bearing. Remove the rear driveline/cross member/carrier bearing assembly from the vehicle.
24. Unbolt OE carrier bearing from the cross-member (2x 15mm bolts).
25. Mount your Sandcraft Carrier Bearing base plate to the cross member. Use the supplied hardware with thread locker and torque to 22 ft-lbs. It mounts in the same location as the OE carrier bearing with the writing facing the front of the vehicle.
26. NOTE: You need to set the angle of the adjustable carrier bearing. To do this, install the driveline rear section, carrier bearing and cross member into the vehicle. Insert the rear driveline yolk onto the transmission as if in its final position. Now tighten 2X cross member bolts to find the correct angle. Once the angle is set, use a 6mm Allen wrench to tighten the exposed lower button head screw and lock in the angle. Now lower the cross member and torque carrier bearing mounting hardware to 22 ft. lbs. and install the cross member, carrier bearing – driveline assembly into place.
27. Install 4x 13mm cross member bolts, torque to 18 ft. lbs. (if installing carrier bearing only, you can re-install the skid plate now).

## **END CARRIER BEARING ONLY INSTALL**



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28. Install the front half of the driveshaft in through the front of the vehicle and align the master splines (rear and front).
29. Re-install the differential into the vehicle. Slide the driveline onto the master spline of the differential.
30. Install the Pinion Yoke Retaining Bolt and nut through the driveline. Torque to 30 ft. lbs.
31. Install 2x 18mm mounting the differential to the frame. 133 fr. lbs.
32. Re install the Upper Control Arm
33. Re install the front fascia
34. Re install the axels
35. Install the Lower Shock Mount Bolt (Do not tighten these bolts yet).
36. Install the Knuckle. Collect the Lower Ball Joint Stud, then the Axle Stud and finally the Upper Ball Joint Stud.
37. Loosely install the Upper Ball Joint Pinch Nut & Bolt. Do not tighten.
38. Install the Brake Rotor/Caliper Assembly. Install Caliper Hanger Bolts (X2). Use thread locker, torque to 73 ft. lbs.
39. Install the Outer Tie Rod End.
40. Install Axle Nut, do not tighten.
41. Torque Upper Control Arm Bolts (X2). Torque to 133 ft. lbs.
42. Install the Lower Shock Bolt. Torque to 133 ft. lbs. NOTE: If you have Limit Straps, DO NOT re install them at this time, wait until the car is back on the ground.
43. Torque Axle Nut to 89 ft. lbs.
44. Torque Outer Tie Rod End to 52 ft. lbs. + 90 degrees.
45. Install Brake Line Bracket bolts to the knuckle, torque to 8 ft lbs.
46. Torque the Upper Ball Joint Pinch Bolt to 52 ft. lbs.
47. Install the Wheel. Torque to Manufacturer specifications.
48. Re install the skid plate using the 10mm bolts.
49. Lower the vehicle to the ground.
50. If you have Limit Straps, re install them at this point.

**PLEASE CONTACT US AT (480)-539-4438 OR SANDCRAFT@SANDCRAFT-MOTORSPORTS.COM IF YOU HAVE ANY QUESTIONS.**