READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY UNDERSTAND THEM BEFORE DOING ANYTHING.
CALL CHASSISWORKS TECH SUPPORT (916) 388-0288 IF YOU NEED ASSISTANCE.

INSTALLATION GUIDE

CHRIS ALSTON'S Chassisworks
THE HOME OF HIGHER TECHNOLOGY

8531-XXXX
Rear Floater Hub and Axle Assembly
(Applies to all bolt-circle patterns)

Description: Floater (Type AA) hub and axle system. Complete system Includes pair of floater hubs with wheel studs installed, axle shafts, hardware, and housing ends. Some items sold separately.

Notes: Product must be custom-fit to vehicle. Shortening of axle shafts required for installation.
- SPECIAL ORDER PART NOT RETURNABLE FOR ANY REASON -

PARTS LIST

Prior to assembly use the following parts lists to verify that you have received all components.

8531-XXXX - Floater Hub Sets

You will receive one of the four items listed.

1 pair	8531-1110	Floater Hub (Type AA), 4-1/2” on 5 bolt circle, without housing ends
1 pair	8531-1111	Floater Hub (Type AA), 4-1/2” on 5 bolt circle, with housing ends
1 pair	8531-2110	Floater Hub (Type AA), 4-3/4” on 5 bolt circle, without housing ends
1 pair	8531-2111	Floater Hub (Type AA), 4-3/4” on 5 bolt circle, with housing ends
NOTE	Brake register diameter is 3.06”	

Floater Hub Individual Components

A combination of these items are included in the 8531-XXXX sets.

2	7963-200-450	Floater Roller-Bearing Hub Unit (Type AA), 4-1/2” on 5 bolt circle
2	7963-200-475	Floater Roller-Bearing Hub Unit (Type AA), 4-3/4” on 5 bolt circle
2	7963-208	Floater Housing End (Type A) • As component for welded installation with customer housing • As part of FAB9 factory-welded rearend housing

8557-0135 - Floater Axle Set

You will receive the four items listed.

2	7968-3335-XXXX	Floater Axle Shaft, 35-spline differential, CAC splined hub (A) • Available in 10 different lengths for 51” to 61” flange-to-flange widths
2	3120-100S-Y	Washer, 1” SAE flat, hardened
2	3132-100-14P	Flanged toplock nut, 1”-14 six-point head
2	7963-207	Stop Ring, 2.8” OD x .75” thick

INSTRUCTIONS

Axle shafts are manufactured in ten different lengths to accommodate flange-to-flange widths ranging from 51" to 61". Shafts must be shortened to correct length by cutting material from the differential end spline.

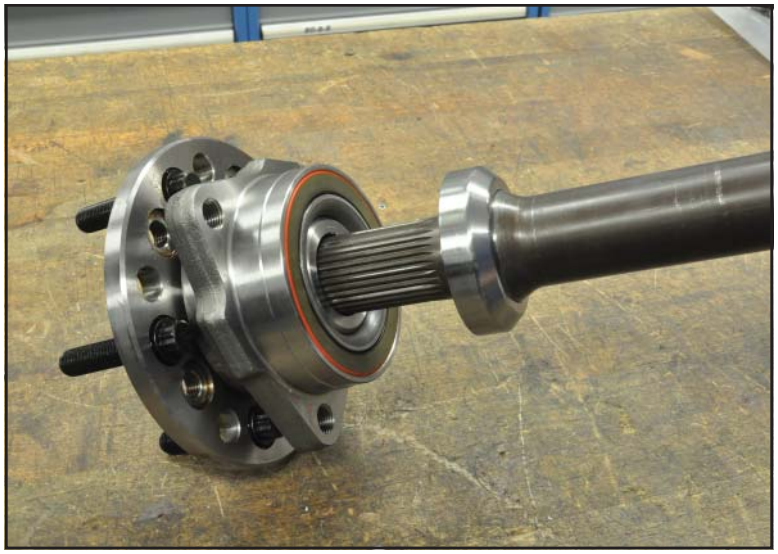
The axle must be assembled for accurate measurement prior to shortening.

1. Place the stop ring over the threaded end of the axle. Beveled/tapered side toward length of axle; flat side facing out toward threads.

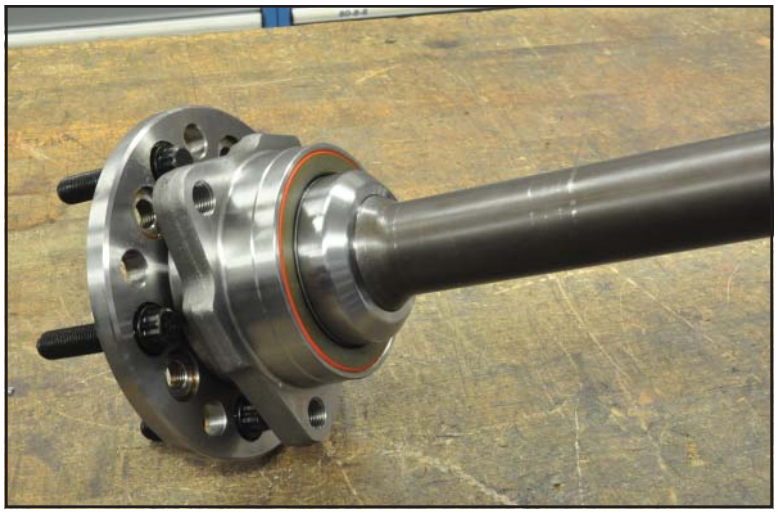
2. Press the stop ring onto the shaft until it seats tightly against the shaft shoulder.

3. Insert the supplied O-ring into the hub-bearing groove. Make sure the O-ring is completely seated with no twists or bulges. Coat O-ring with grease to prevent damage during axle assembly.

4. Insert the axle through the hub bearing being careful not to pinch or scar the O-ring.



5. The stop ring will seat flat against the bearing.



6. The axle is held by the 6-point toplock nut with hardened flat washer.
7. Billet-aluminum cap shown below is installed after the locknut is fully tightened.

8. When tightening the axle nut, the axle flange must be held securely to prevent the shaft from rotating. A vice and simple fixture is highly recommended due to the amount of torque required for 1”-14 hardware.

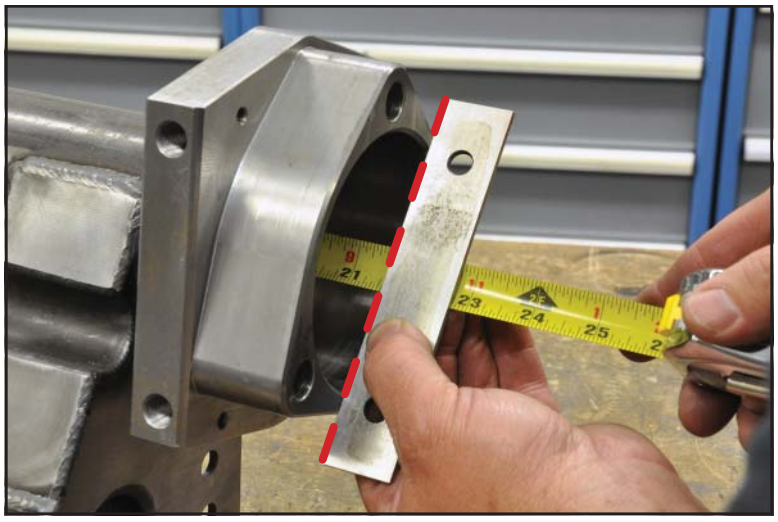
   Apply red Loctite to axle threads.

   Torque locknut to 175 ft-lbs.

   Note: A simple fixture can be made from steel sheet or thick plywood.

Next we determine the correct axle shaft length by measuring the housing.

Third-member and differential must be installed prior to measurement.

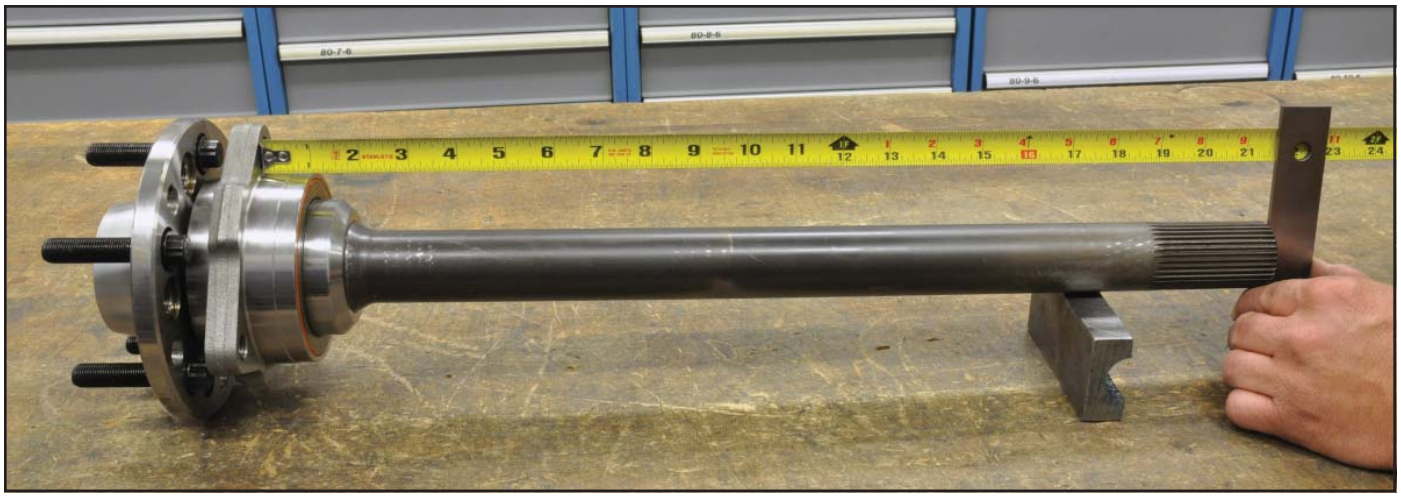


9. Place a straight edge against the housing end. Measure the distance from the end of the housing to the bottom of the differential axle bore.
10. Subtract 1/32” to 1/8” from this measure to determine the cut length for the axle.

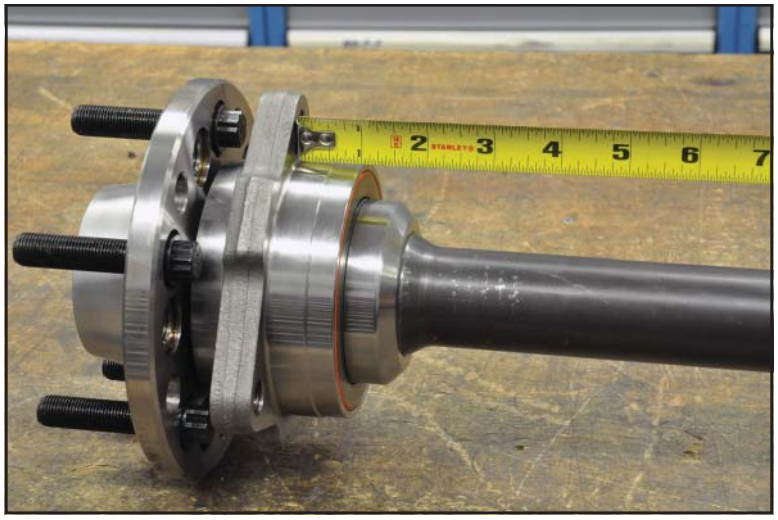
    Example: If the distance to differential measures 21-3/4” the cut length is 21-5/8”.

11. Measure the axle overall length. Subtract the deteremined cut length from step 10. Then mark the axle to shorten it the required amount.

    Note: See images 12 and 13 for correct positon of tape measure.



12. Correct tape measure position for axle hub end is against the flange surface that comes in contact with the housing end.



13. Correct tape measure position for differential axle end requires you place your straight edge even with the end and perpendicular to the axle shaft.

14. An abrasive blade chop saw is used to cut the axle to the correct length.

15. Sand a small 45-degree chamfer along the outside edge to remove any burrs or rough edges from cutting.

16. After the brake backing plate is installed over the housing end, the assembled axle can be inserted into the axle tube.
17. The hub flange is secured by three 14mm socket head cap screws included with your brake kit.

    Torque 14mm cap screws to 125 ft-lbs to complete installation.

WARRANTY NOTICE:
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