

INSTALLING DURASLEEVES ON AXLES

When repairing seal grooves in axles, it is very important to be precise with the placement of the sleeve or the new seal will be damaged.

Steps to follow after rear-end is removed from vehicle and hubs removed.

Mark the axles where it emerges from the axle housing with a felt pen.

Remove oil from rear end, unbolt drivers side housing and withdraw the axles and carrier as a unit. Be sure to retain all gaskets as they determine your pre load on crown and pinion. Check housing for any metal fragments and gears for wear.

Remove and replace old axle seals. Clean axle seal surfaces and measure the area where the seal rides (next to where it is grooved) this should be 1.135 in.

Measure the area along the axle from where the seal rides to the taper. It can not be larger the 1.135, and should be smooth. If this area is larger the 1.132, dismantle the carrier (crown and spider gears) turn the axle down till it is no more the 1.132 in the area from the seal position to the taper.

With a tape measure reach into the axle housing and hook it onto the inner rim of the seal, (typically $3 \frac{3}{8}$ to $3 \frac{1}{2}$ in.) should be your measurement. MEASURE BOTH HOUSINGS. Mark each axle with this measurement, PLUS $\frac{1}{16}$, from the felt pen mark at the end of the housing.

This is your stopping point for the sleeve.

Put the axle in a vice. Ready driving tool and sleeve.

Mix backing material to fill groove. Lubricate axle with very light oil or WD 40 where sleeve is to be driven on.

Drive sleeve on to the axle with the tool till it reaches the felt pen mark. Leave flange on sleeve if desired.

If backing material dries you will need to turn it down to 1.135 in. before installing sleeve.

NOTE.

Backing material is usually an 2 part epoxy type filler like JB weld.

If flange is to be removed it will need to be clipped prior to driving it on. To remove use flat nosed pliers and rock it back and forth till it fractures along the groove. Do not tear it off this will leave a raised area where it parts.

On a rear-end rebuild this can be incorporated into the plan.

**From;
Hugh Hunter
4790 McLeod Rd
Powell River BC
V8A0T1
604 485-4303**