

REAR AXLE

2. Start carrier into housing using four flat washers and nuts (40) equally spaced, then tighten nuts alternately and evenly to draw carrier squarely into housing.

CAUTION: Driving carrier into axle housing by use of a steel hammer will not only damage carrier stud flange but will also cause oil leaks.

- 3. Remove nuts and flat washers, then install

lock washers (41) and stud nuts. Tighten nuts to recommended torque value listed in "Specifications" at end of this section.

4. Install drain plug and tighten firmly. Fill axle housing to proper level with lubricant specified in LUBRICATION (SEC. 13). Install and tighten filler plug.

5. Install axle shafts as previously directed under "Axle Shaft Replacement" in this section.

REAR AXLE SPECIFICATIONS

TYPE.....	Angle Spiral Bevel
DRIVE.....	Radius Rods
RATIO	
Standard.....	4½ to 1"
ADJUSTMENTS AND CLEARANCES	
Drive Gear and Pinion Backlash.....	0.006"-0.012"
Adjustment Method.....	See Text
Shim Thickness (Carried to Cage).....	0.003"-0.005"-0.010"-0.020"
Pinion Bearings	
Adjustment Method.....	Selective Spacers
Spacer Thickness.....	0.187"-0.188"-0.190"-0.192"-0.194"- 0.196"-0.198"-0.200"-0.201"-0.215"-0.229"
Rotating Torque (In. Lbs.).....	5-15
Differential Bearings	
Adjustment Method.....	Threaded Adjusting Rings
Bearing Pre-Load.....	See Text
DIFFERENTIAL CASE	
Run-Out (Max.).....	0.003"
SPIDER PINION	
Bore Diameter (Grind).....	1.252"-1.254"
Clearance—Pinion to Spider.....	0.004"-0.008"
SPIDER	
Diameter of Arms.....	1.246"-1.248"
Arms in Same Plane Within.....	0.0025"
THRUST WASHER THICKNESS	
Side Gear.....	0.121"-0.125"
Spider Pinion.....	0.058"-0.062"
AXLE SHAFT	
Type.....	Full Floating
Drive Flange Run-Out (Max.).....	0.010"
Shaft Run-Out at Center (Max.).....	1/16"
Diameter at Splined End.....	2.372"-2.377"
TORQUE SPECIFICATIONS (Ft. Lbs.)	
Propeller Shaft Flange Nut (1¼-12).....	800-1100*
Pinion Cage Stud Nuts (½-20).....	80-105
Carrier to Housing Stud Nuts (¾-18).....	160-205
Differential Case Bolt Nuts (¾-18).....	205-235
Differential Bearing Cap Stud Nuts (¾-14).....	510-650
Drive Gear Bolt (¾-16).....	255-280
Adjusting Ring Lock Cap Screw (¾-18).....	15-20
Axle Shaft Flange Stud Nut (¾-18).....	100-110
Height Control Valve Link Nuts.....	5-7

*Plus enough more to line up cotter pin hole. Do not back off nut to line up cotter pin hole.

LEFT
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