

CHRYSLER CORP. SURE-GRIP DIFFERENTIAL

Chrysler Corp. 9 1/4" Ring Gear

DESCRIPTION

This is a positive traction type differential which directs the major driving force to the rear wheel with the greatest amount of traction. It is accomplished by two spring-loaded thrust blocks bearing against differential side gears seated in tapered cone clutch members. Clutch members are located in differential case with one member in each half. Thrust block spring load is calibrated to permit some slippage under variable torque conditions (turning corners or other unbalanced tractive conditions), allowing torque created on one wheel by differential action to overcome thrust block spring load on differential side gears.

AXLE RATIO & IDENTIFICATION

Sure-Grip differential is optional on Chrysler axles with 9 1/4" ring gear. See *Chrysler Corp. 8 3/8" & 9 1/4" Ring Gear in this Section.*

LUBRICATION

Use only Mopar Hypoid Gear Lubricant (Part No. 3744994) or equivalent.

TESTING ON VEHICLE

With rear wheels raised off ground, engine off and automatic transmission in "P" or manual transmission in low, grip tread of tire and attempt to rotate wheel. If rotation is extremely difficult or impossible, differential is performing satisfactorily. If either wheel turns easily, differential should be replaced.

REMOVAL & INSTALLATION

Same procedure is used to remove and install Sure-Grip differential as standard differential. See *Chrysler Corp. 8 3/8" & 9 1/4" Ring Gear in this Section.*

CAUTION — During removal and installation of axle shafts, DO NOT rotate one axle shaft unless both are in position. Rotation of one axle shaft without the other in place may result in misalignment of two spline segments with which axle shaft splines engage, and will necessitate difficult realignment procedures when shaft is reinstalled.

OVERHAUL

Sure-Grip differential is serviced as an assembly only.

CAUTION — Under no circumstances should Sure-Grip differential be disassembled, reassembled, and installed in vehicle.

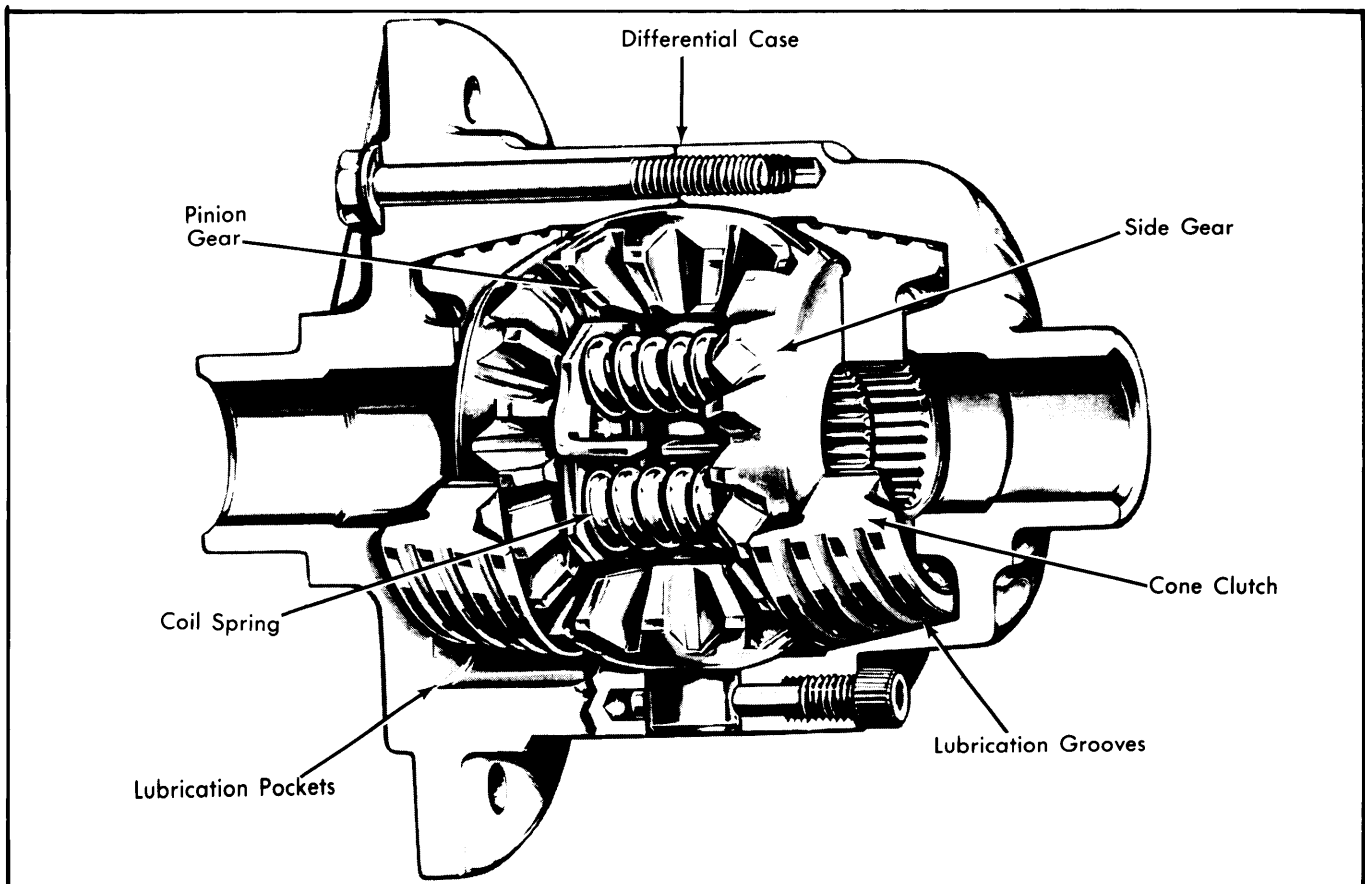


Fig. 1 Cutaway View of Chrysler Corp. Sure-Grip Differential Assembly