INSTRUCTION SHEET

Denso Starter Pinion P/N 604, 605, 610, 611, and 612

We want to help! If you have any comments or difficulty with this product, please contact technical support at



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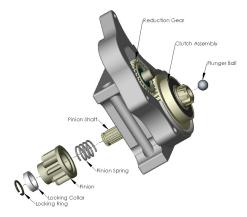


Figure 4

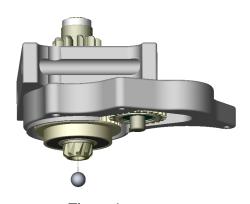


Figure 1

Installation instructions for pinion P/N: 604, 605, 610, 611 & 612

Removal and installation steps:

- 1. Remove the four bolts holding the *drive end housing* to the starter body. Two bolts parallel the starter's motor and the other two are found in the *drive end housing* near the *pinion gear*. NOTE: The *plunger ball* may roll out of the *pinion shaft* and may be lost if care is not taken (Figure 1). The *reduction gear* and its four roller bearings and holder should be temporarily removed from the *drive end housing* or secured in the housing with tape.
- 2. Push the pinion shaft forward into the *clutch assembly* while simultaneously pushing the *locking collar* and *pinion* back (Figure 2).
- 3. This will expose the *locking ring* on the end of the *pinion shaft* (Figure 3). Use a

flat screwdriver to spread the lock ring and remove.

- 4. Remove the locking collar, pinion, and pinion spring (Figure 4).
- 5. Repeat step two and install the new pinion spring, pinion, locking collar, and locking ring. NOTE: Be certain that the notch inside the locking collar is toward the locking ring when installed. When the locking ring is in its groove on the pinion shaft, squeeze the ring together with pliers to assure a tight fit. Release the shaft, pinion and collar. If the locking collar does not completely cover the

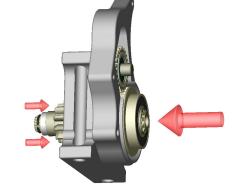


Figure 2

locking ring, lightly tap on the pinion end of the shaft. NOTE: The pinion spring's tension holds the locking collar forward with its notch over the locking ring to prevent it from spreading during

6. Reinstall the *reduction gear* (if removed) and reattach the *drive end housing* to the starter body. Tighten the four assembly bolts in an even fashion.

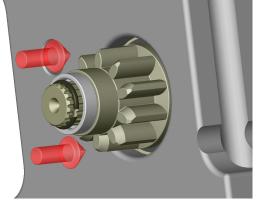


Figure 3

Part Description	P/N 604 Qty.	P/N 605 Qty.	P/N 610 Qty.	P/N 611 Qty.	P/N 612 Qty.
Locking ring	1	1	1	1	1
Locking collar	1	1	1	1	1
Pinion spring	1	1	1	1	1
Pinion (11 tooth)	1				
Pinion (9 tooth)		1			
Pinion (10 tooth for Mopar applications)			1		
Pinion (9 tooth for Bert/Brinn applications)				1	
Pinion (10 tooth for Flat Head Fordapplications)					1