

2014 - 2016 Corvette: GM TechLink: Updated Corvette Driveline Support Assembly Replacement Procedure

Updated Corvette Driveline Support Assembly Replacement Procedure

Slow engine cranking, a dead battery or a no start condition on 2014-2016 Corvette models equipped with an automatic transmission may be caused by a misaligned driveline support assembly (Fig. 1). The misaligned assembly can cause excessive pressure and damage to the engine crankshaft thrust bearing. (Fig. 2, #1)

Fig. 1

Fig. 2

If the driveline support assembly has been removed for a previous vehicle repair, the propeller shaft hub clamp must be realigned. Failure to properly align the driveline support assembly may push the crankshaft forward, removing any end play. The damaged thrust bearing typically fails approximately 3,000–5,000 miles (4,000–8,000 km) after the repair when the driveline support assembly was removed.

The driveline support assembly consists of a driveline support tube, with rear bell housing, and an internal propeller shaft assembly. The front of the driveline assembly mounts to the engine bellhousing. The driveline support assembly is specific to either automatic or manual transmission applications.

Any related warranty claims involving the driveline support assembly may be debited for improper workmanship.

Updated Procedure

The Service Information procedure for driveline support assembly replacement was recently updated for vehicles with an automatic transmission (Doc. I.D. #3462804).

The updated procedure includes tightening the propeller shaft hub clamp bolt (Fig. 3) to 130 Nm (96 lb.-ft.). Measure crankshaft end play with a dial gauge. (Fig. 4)

Fig. 3

Fig. 4

After test driving the vehicle, recheck end play. If there is no end play, the clamp bolt must be loosened and the crankshaft pushed rearward again.

New Video

A video on the updated procedure is included in the September 2016 Emerging Issues seminar (10216.09V) that is available on the GM Center of Learning. (Fig. 5)

Fig. 5

– Thanks to Jeff Strausser and Tracy Lucas

Custom Fields

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