



Technical Service Information

GM 6L45/6L50

NO FORWARD OR REVERSE ON INITIAL TAKE-OFF WITH GRINDING NOISE

COMPLAINT: 2007 to 2010 Cadillac CTS, STS or SRX equipped vehicles with an All Wheel Drive Transfer Case BW44-77 and the 6L45/50 Transmission may have a complaint of no forward or reverse movement on initial take-off accompanied by a grinding noise.

CAUSE: The splines on the transmission output shaft and on the transfer case input shaft have deteriorated and/or stripped due to rust as shown in Figures 1 and 2.

CORRECTION: Replace the transmission output shaft and the transfer case input shaft. When replacing the transmission output shaft be sure to replace it with the updated output shaft that has provisions for an o-ring just below the splined area. The o-ring is meant to trap grease and keep it in the splined area, See Figure 3.

When installing the transfer case make sure to apply a high temperature grease to the output shaft splines.

During transfer case installation make certain the two alignment dowel pins are present into the transfer case and are correctly located, Refer to Figure 4.

SERVICE INFORMATION:

<i>6L50 Transmission Output Shaft.....</i>	<i>24251229</i>
<i>6L45 Transmission Output Shaft.....</i>	<i>96043341</i>
<i>CTS Transfer Case Input Shaft.....</i>	<i>19256369</i>
<i>STS, SRX Transfer Case Input Shaft.....</i>	<i>19256370</i>

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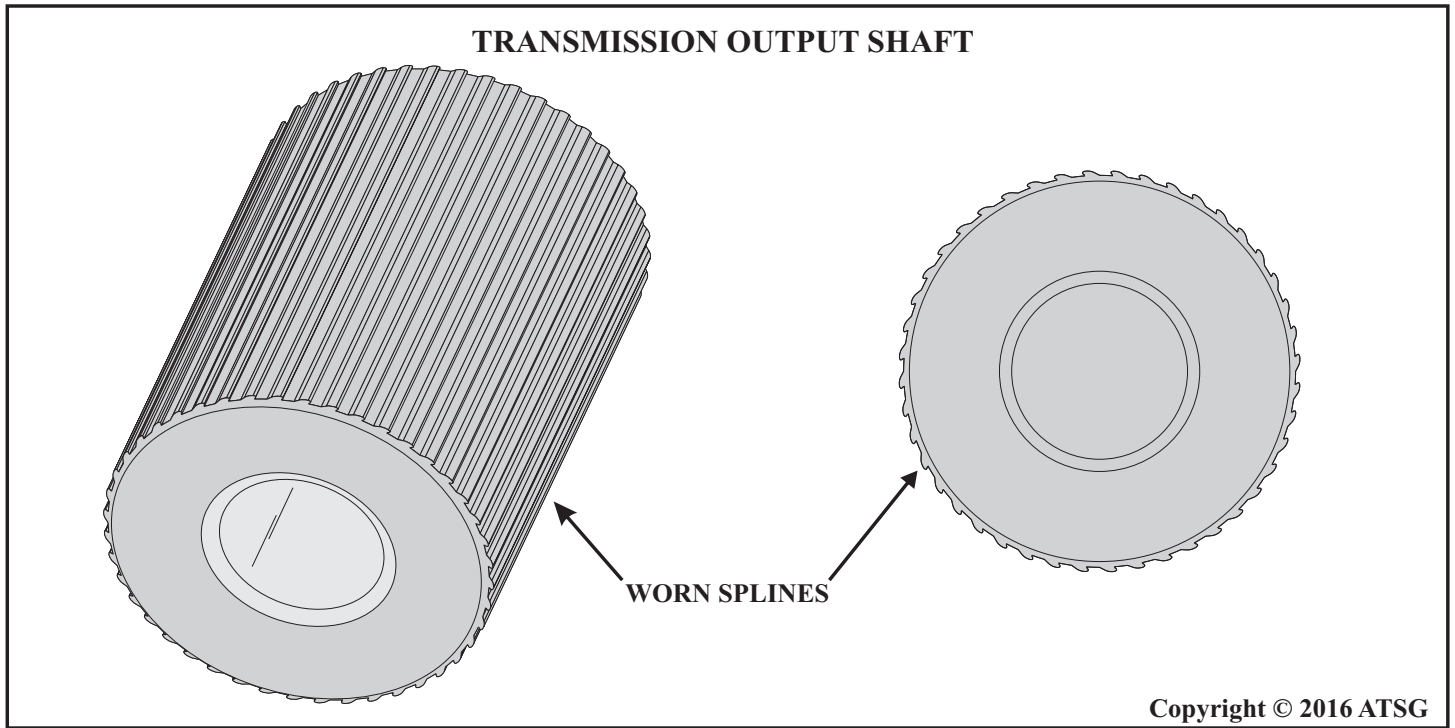


Figure 1

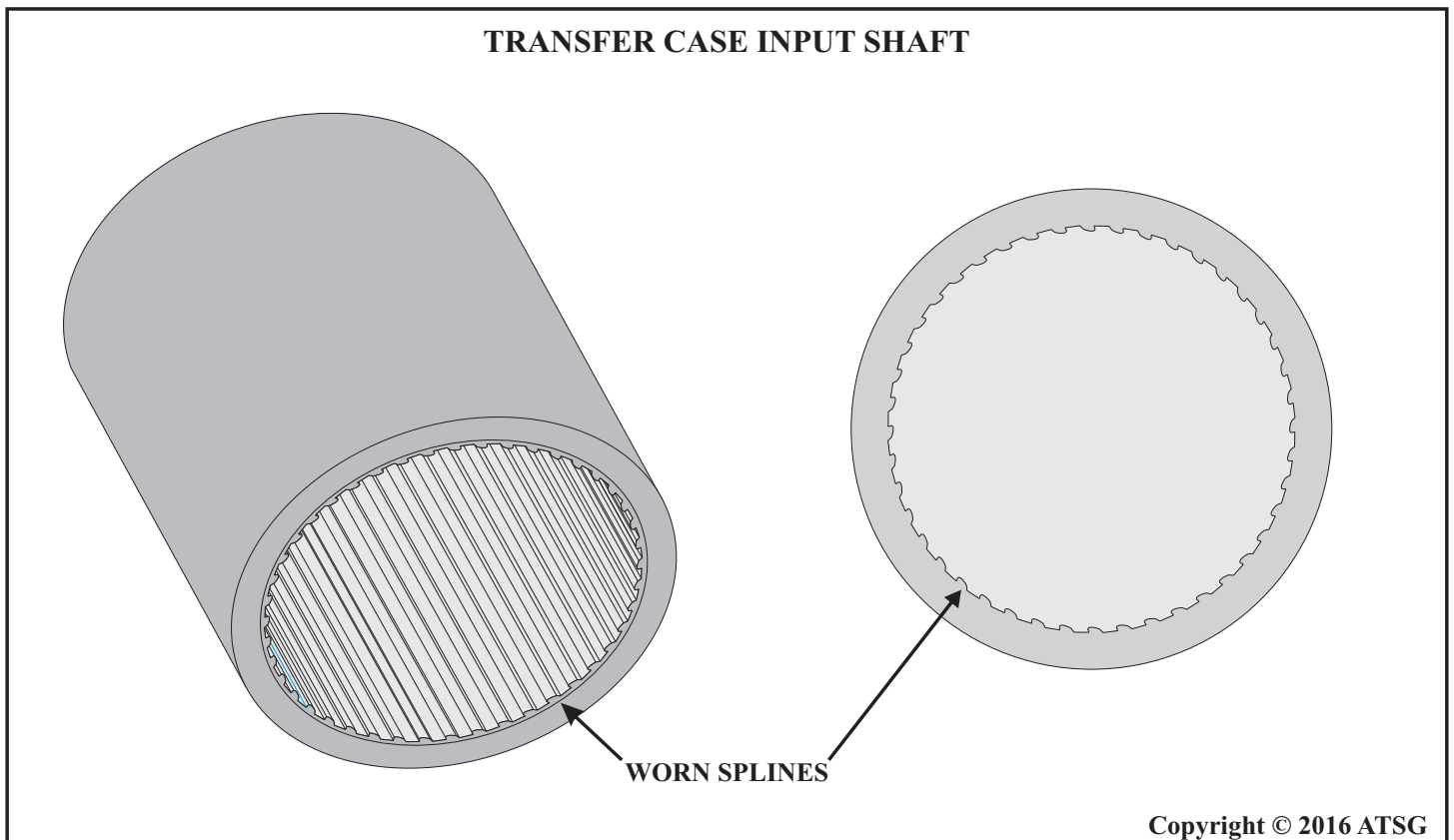
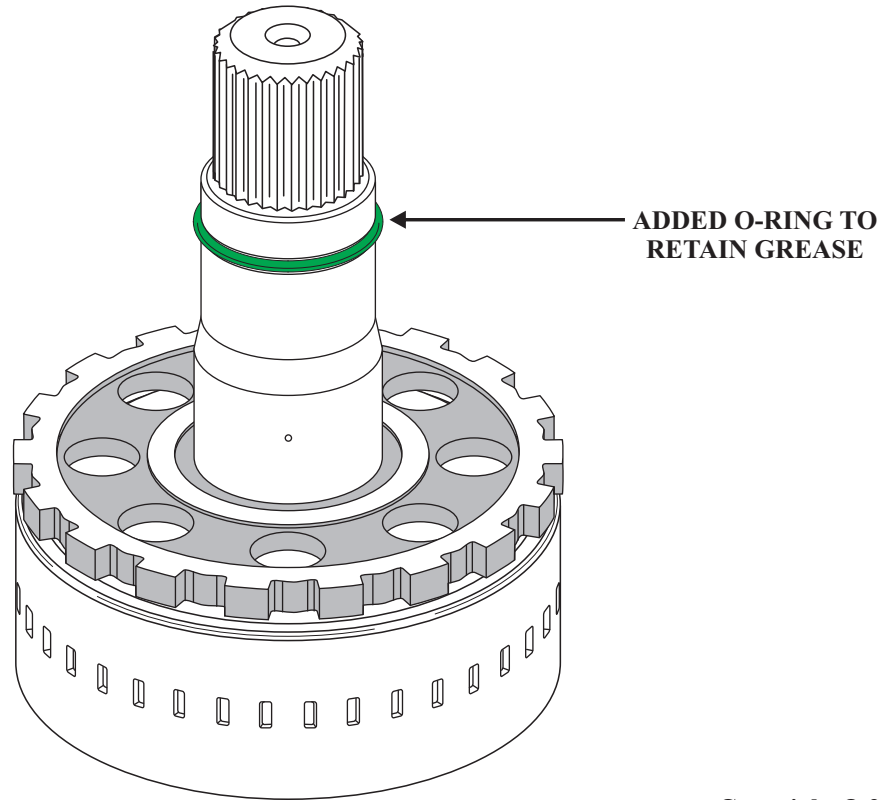


Figure 2

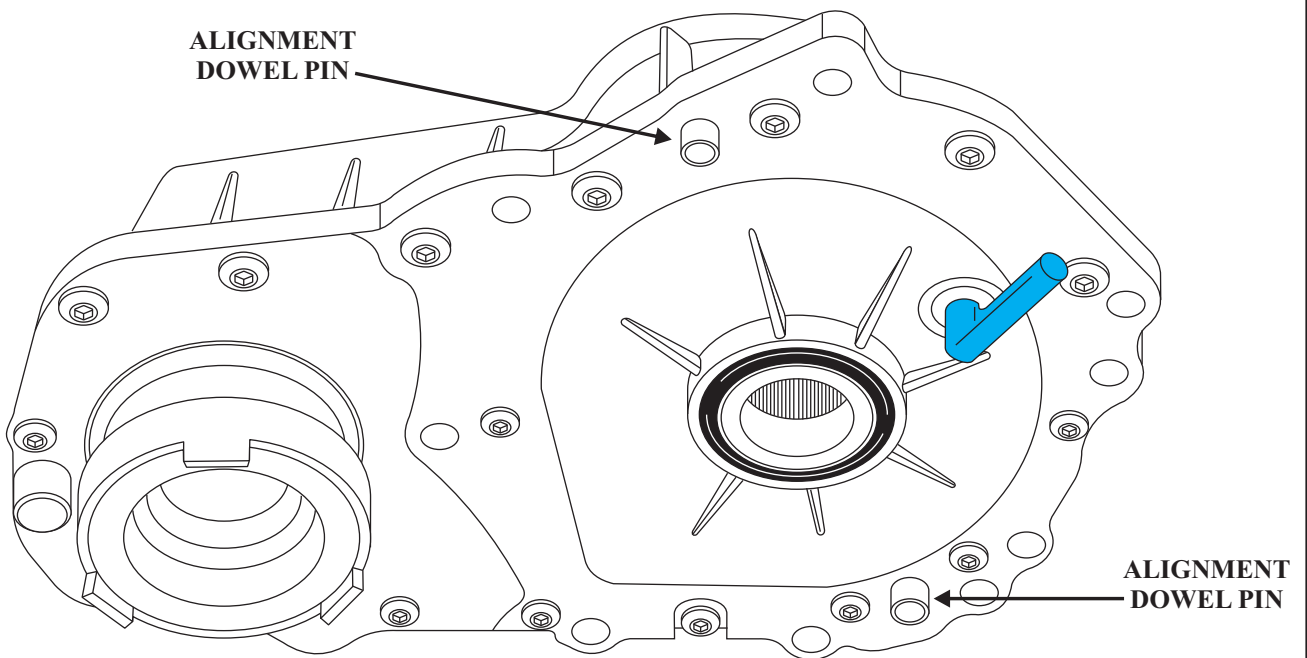
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Figure 3



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Figure 4