

GM 6T70**NO REVERSE, NEUTRAL IN THIRD**

COMPLAINT: A 2017 Chevy Traverse comes into the transmission shop with a 3.6L engine and 6T70 transmission in need of a rebuild. Due to some worn bushings, ring grooves were cut into the 3-5- R/4-5-6 clutch drum assembly. During rebuild, the ring tower and drum assembly were replaced. Air checks were made to ensure there were no clutch apply issues. Once the transmission was installed, the vehicle road tested perfectly until the transmission fluid heated up. It was then that the transmission lost reverse and third gear. Knowing that the parts they changed were related to the malfunction, the technician decided to get back into the transmission to inspect them. They pulled out the drum assembly and unbolted the ring tower. They compared the original one with their replacement. At first glance, they looked identical as shown in figure 1.

CAUSE: It didn't take long before the technician spotted the difference. His original unit had a Generation 2 tower with shallower bolt pockets for a long bolt. The one he received and used was a Generation 1 tower which has deeper pockets for a shorter bolt (figure 2).

CORRECTION: By installing a Generation 1 tower using Generation 2 bolts, the bolts bottomed out in the rear cover giving the sense that the tower was secured. It even air checked and worked when it was cold in the vehicle. The amount of play this tower had with the wrong bolts was between 0.005" and 0.010." Once they received the correct tower, the problem was solved.

SERVICE INFORMATION:

See figure 3:
(2007-2012) Generation 1 bolt is 2.200" in length with a tower pocket depth of 0.365."
(2013 and up) Generation 2 bolt is 2.325" in length with a tower pocket depth of 0.210"

Whatever It Takes (WIT), has these properly identified in their online catalog.

Gen 1 is part number U25634A and Gen 2 is U25634B.

Many thanks to Paul from Dail's Transmission for the photos and for sharing his experience with ATSG.

GM 6T70

NO REVERSE, NEUTRAL IN THIRD

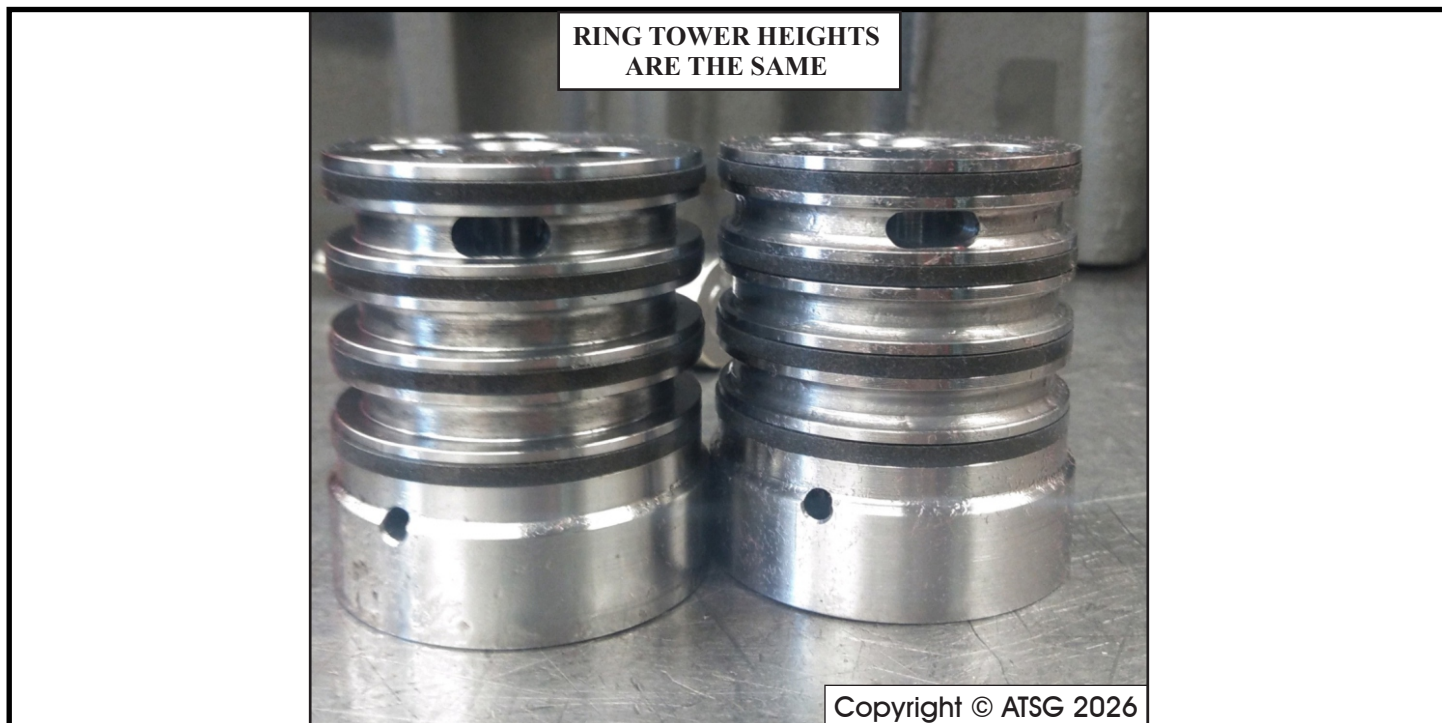


Figure 1

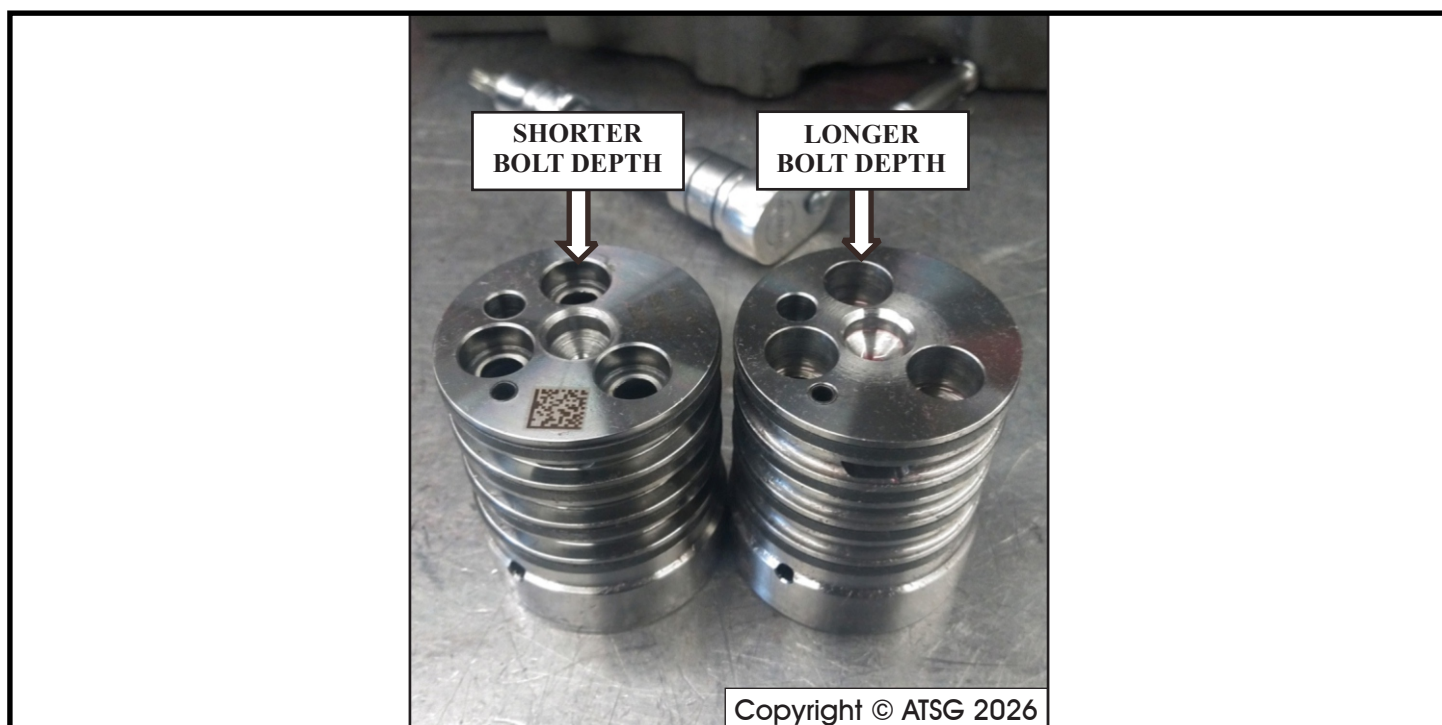


Figure 2

GM 6T70

NO REVERSE, NEUTRAL IN THIRD

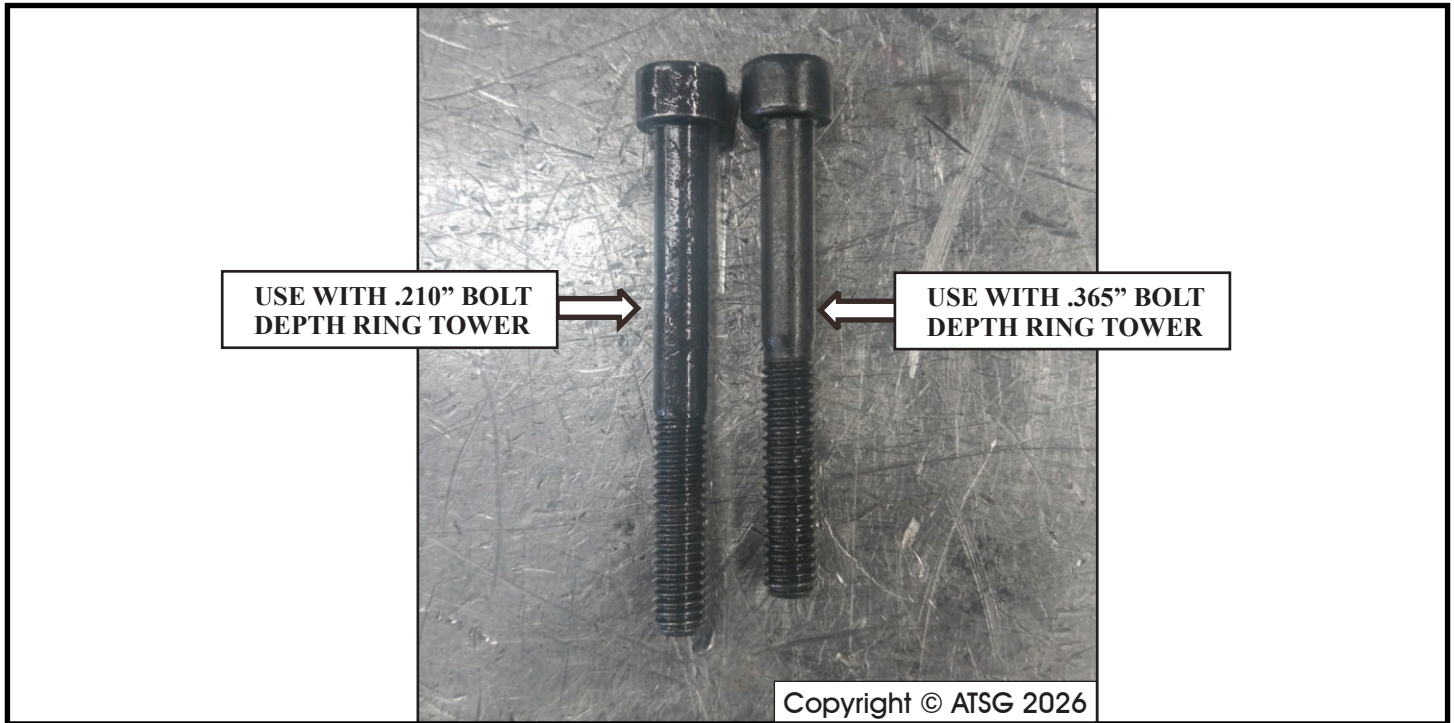


Figure 3