

## DSG 02E

### SUDDEN NO MOVE CONDITION

**COMPLAINT:** A Volkswagen vehicle using the Direct Shift Gearbox (DSG) 02E comes into the shop due to a sudden no move condition. No visual leaks could be observed. The fluid level is correct, it looks and smells fine as well.

**CAUSE:** During the disassembly of the transmission for inspection, it is discovered that the pump shaft snapped. The break took place at the pump side of the shaft just before the end spline (Figure 1).

There is another style pump assembly used in the DSG that is not prone to this problem. The only visible difference between the pump that is in a DGS transmission with broken shafts and the pump that is not are the bolts that hold the halves together. The design that is found in DSG's with broken shafts have no shoulder at the bolt head. The threads run all the way up. The design that is found in DSG's which are not breaking shafts have a drill type aligning shoulder at the bolt head (Figure 2).

This seems to suggest that the pump halves without these shoulder bolts are allowing the shaft to not run true causing the break.

**CORRECTION:** Use a pump assembly with 02E 315 105 A embossed onto it.

The pump found with broken shafts have a part number of 02E 315 105 embossed into the housing pump shaft side. The pump used in units that are not breaking pump shafts adds the suffix A at the end of the number (Figure 3).

*Thanks goes to Leonardo from Advance Service Electronics and Transmissions*

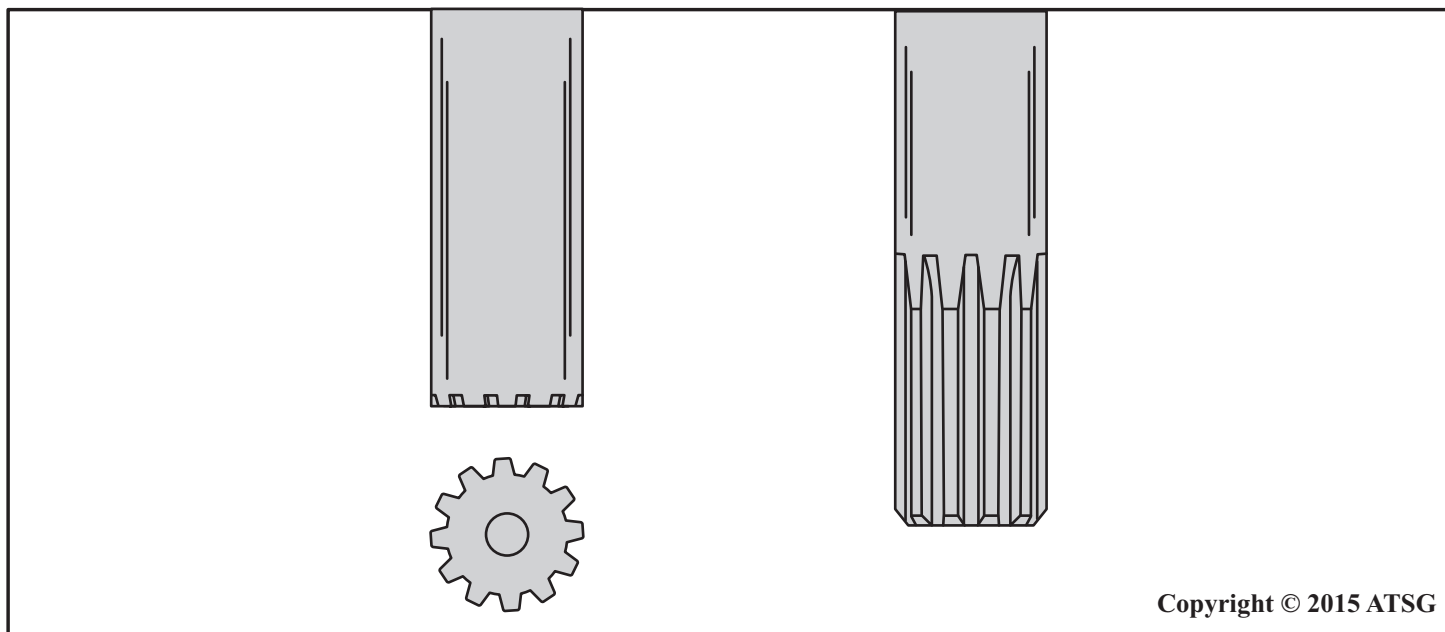


Figure 1

## DSG 02E

### SUDDEN NO MOVE CONDITION

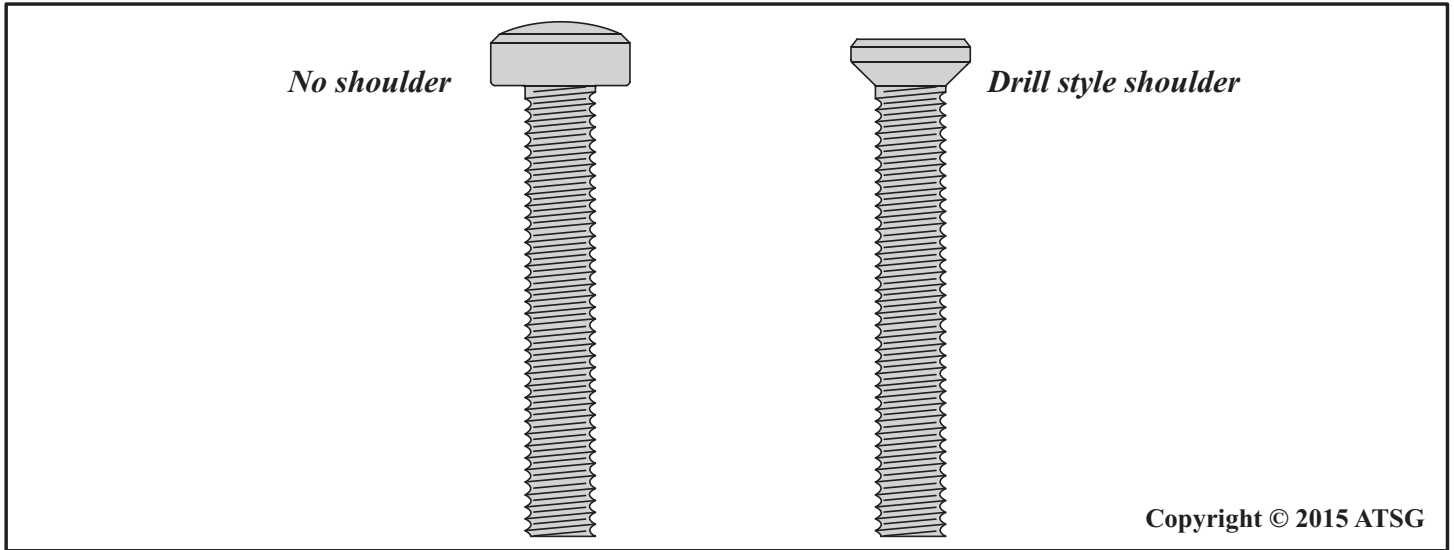


Figure 2

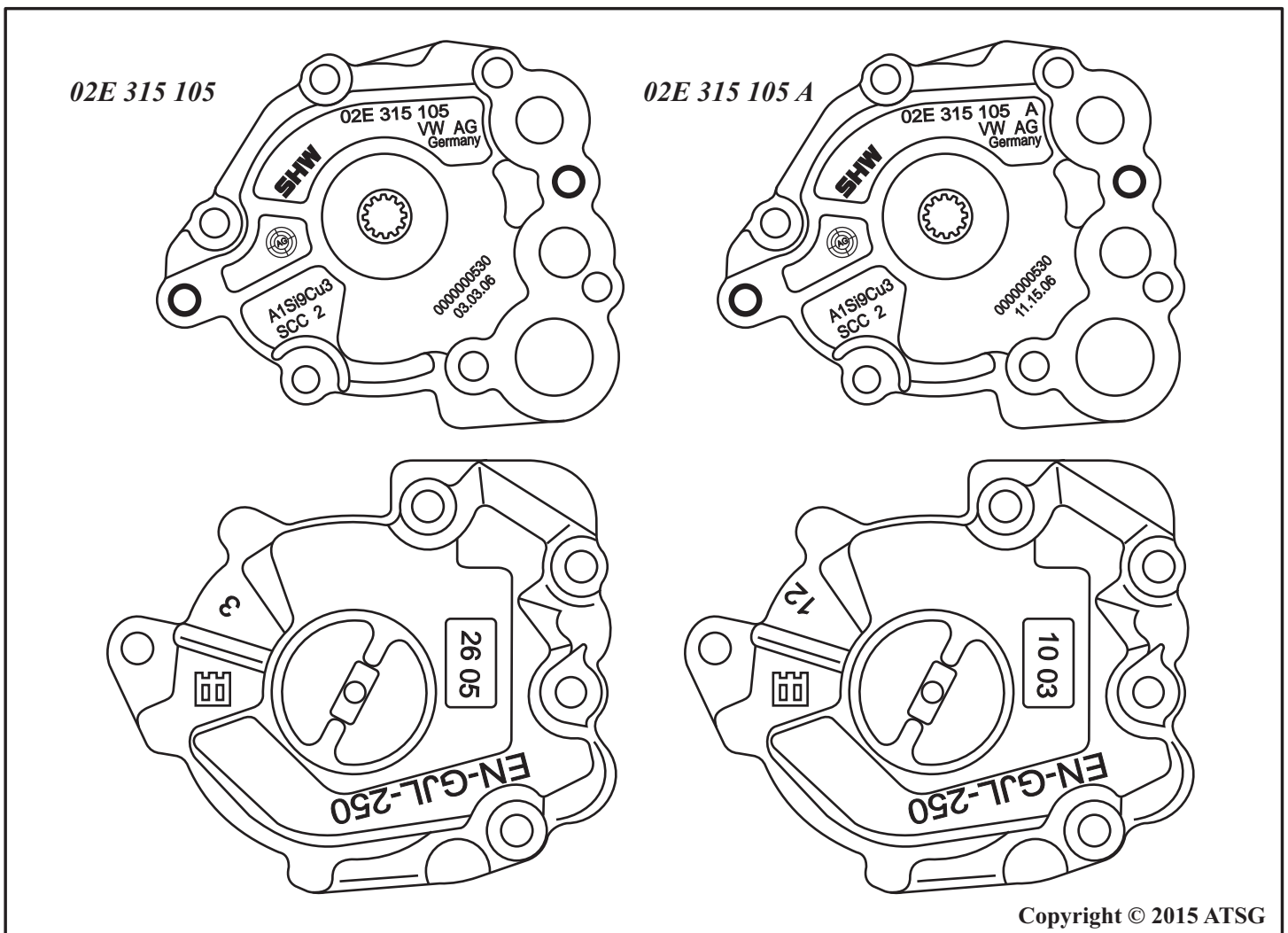


Figure 3