



# Technical Service Information

## JF506-E

### NO REVERSE SLIPS FORWARD

**COMPLAINT:** A complaint of a no reverse and barely moves forward after a rebuild or fluid change with Jaguar, Freelander and VW vehicles.

**CAUSE:** One cause may be that the Reduction band anchor bolt (Figure 1) was accidentally mistaken for the fill plug. When the bolt was removed the band dropped out of position.

**CORRECTION:** In most cases the transmission will need to be removed and disassembled to gain access to the band to place it back into it position.

One in car repair method would be to back out the band adjusting stud until ONLY 7/8" of the threads are exposed, any further and the band can spin past the adjustment pin and transmission removal becomes absolute. The next step is to drill a hole through the entire Band Anchor bolt using an "R" drill so the hole can be tapped for 1/8" pipe plug. Next, acquire a foot long piece of music wire 0.102" in thickness. Bend the wire with a slight bend at one end and a larger bend at the opposite end to be used as a handle. Slide the wire through the Band Anchor bolt and use the wire to grab the anchor end of the band into position. In some cases, the band may be slightly wedged between the drum and the case and will require light tapping to work it free. Once the anchor end of the band is positioned correctly, carefully screw the anchor bolt into place. Care must be taken to not miss the anchor hole wedging the band into the drum. Once the anchor bolt is in place, tighten the band adjusting stud to 70 inch pounds and then back it out 2 1/2 to 3 turns and tighten the lock nut. *(If available, read the Tasc Force Tips: A Case of Mistaken Identity Part 2: Impossible? by Ed Lee in the April 2005 edition of Transmission Digest page 18).*

When filling the unit, remove the check plug from the bottom of the case (Figure 2) and fill the unit from the fill pipe on top of the side pan. Figure 3 illustrates how the fill pipe is situated at the top center of the pan in Freelander vehicles. For Jaguar and VW, it is located off the top left corner of the pan.

Mazda uses a dipstick with a tube mounted on the differential area of the case.

#### SERVICE INFORMATION:

Jaguar X Type specifies ATF IDEMITSU K 17 (Jatco 3100 PL085) fluid  
Land Rover Freelander specifies Texaco N402 fluid  
Mazda 6 and MPV specifies ATF MV  
VW specifies G052 990 A2 fluid

Average refill - 4.5 US quarts

Average dry fill - 9.5 quarts

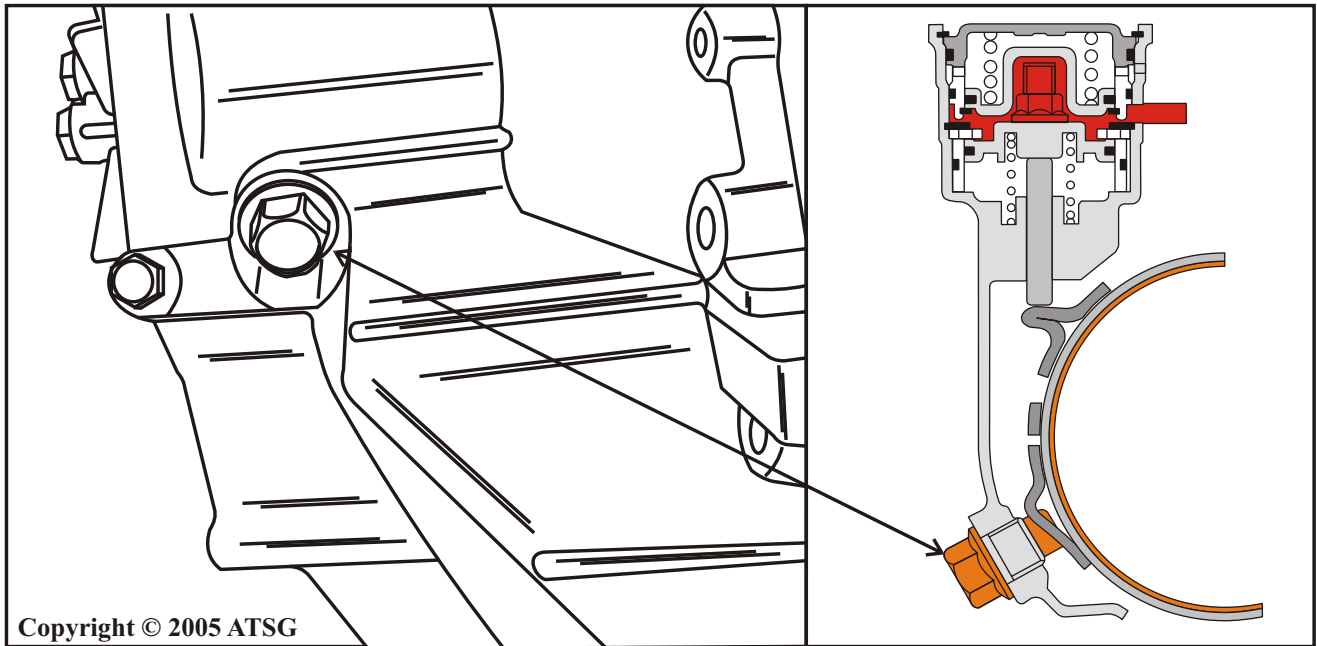
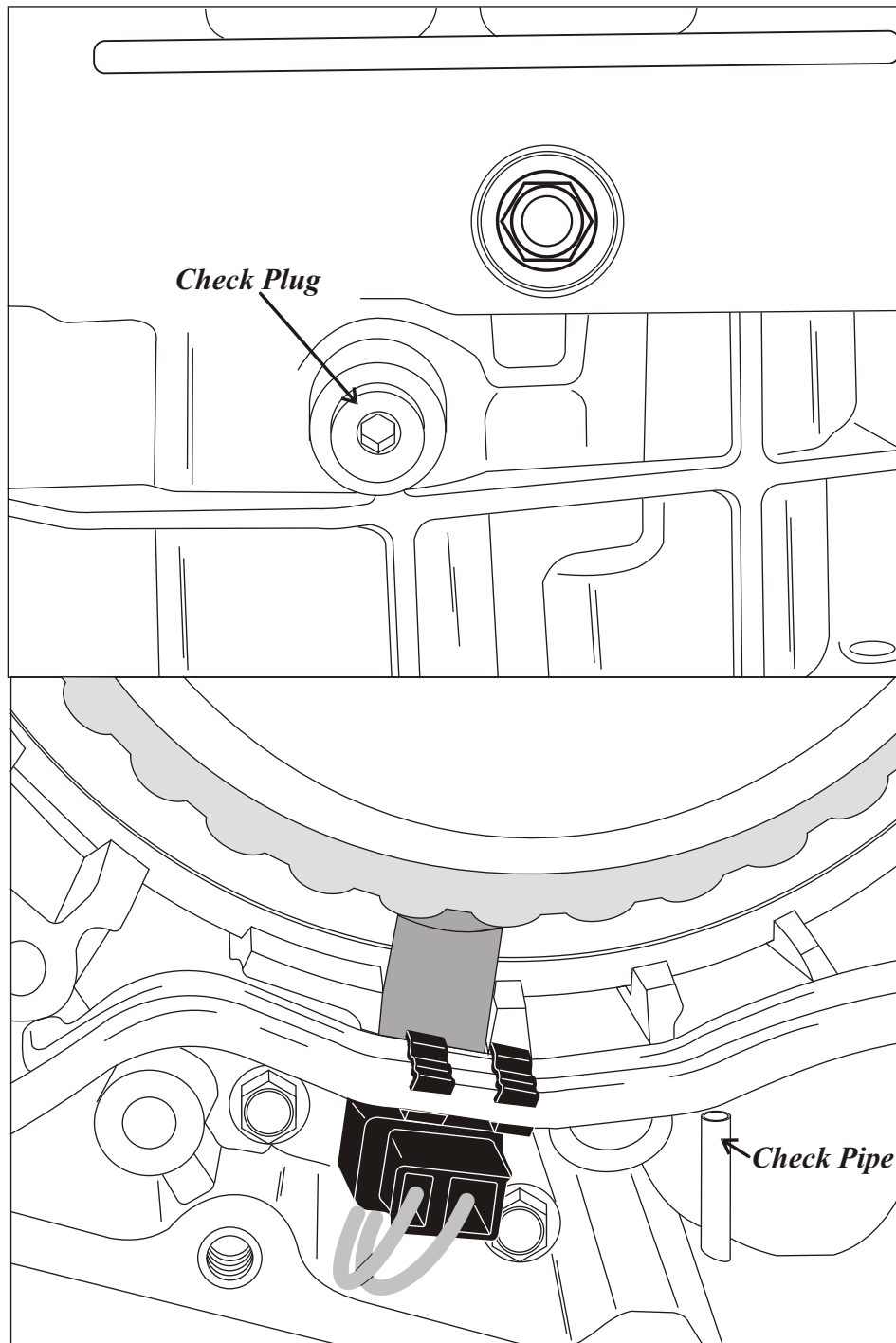


Figure 1



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Figure 2

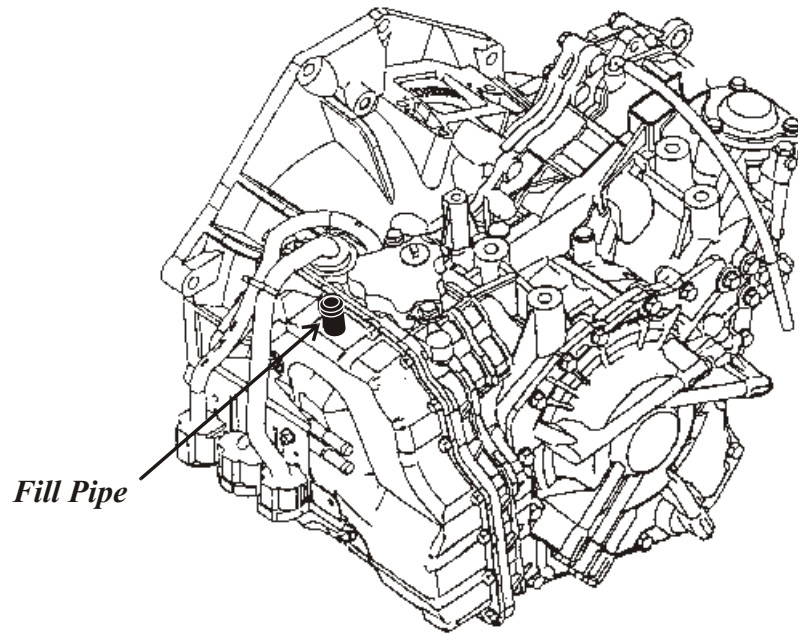


Figure 3