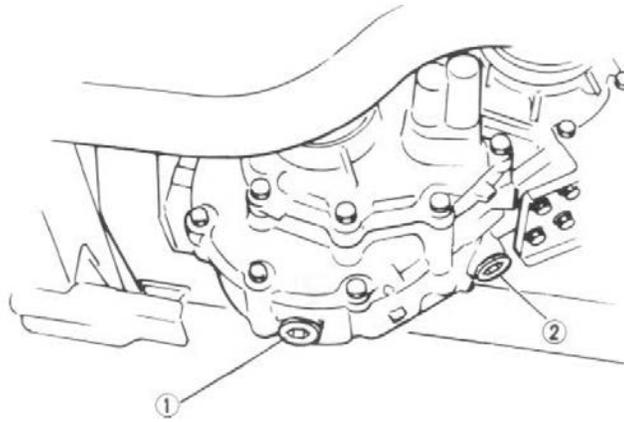


86-95 Suzuki Samurai T-Case Shifter “Pop-Out” Problem

(SKU# STC-651RTC, STC-491RTC, STC-4161RTC)

Technical Service Bulletin



- ① : Oil drain plug
- ② : Oil filler & level plug

Concern: If the Oil Filler and Level Plug is tightened excessively and threaded too far into the case, it will interfere with the shifting forks inside the T-Case. The shifter will not go all the way into 4L and will cause the transfer case to “pop out” of gear when put under a load.



Plug threads above the case

Example 1

If threads of the Filler and Level Plug are flush or above the case there should be no problem.



Plug threads below the case

Example 2

If the threads of the Filler and Level Plug are below the case, as shown here, you will likely have 4L “Pop-Out” problems.





Example 2 Contented

This shows the Oil Level and Fill Plug extending too far inside the transfer case. The arrow indicates where the shifting fork has hit the plug.



Solution 1

Do not over torque the Oil Filler and Check Plug.

Note: The Suzuki torque spec is 13.5 to 20 ft. lbs. We recommend using 13.5 ft. lbs.



Solution 2

If the plug is below the surface of the case, we recommend removing the plug, wrapping it with 6 to 8 layers of teflon tape and reinstalling it to 13.5 ft. lbs. If the plug is still below the surface, increase the layers of teflon tape and repeat the above procedure until the plug is flush or above the case as shown in **Example #1**



As always, If you experience any difficulty during the installation of this product please contact Low Range Off-Road Technical Support at 801-805-6644 M-F 8am-5pm MST. Thank you for purchasing from Low Range Off-Road.



These instructions are designed as a general installation guide. Installation of many Low Range Off-Road products require specialized skills such as metal fabrication, welding and mechanical trouble shooting. If you have any questions or are unsure about how to proceed, please contact our shop at 801-805-6644 or seek help from a competent fabricator. Using fabrication tools such as welders, torches and grinders can cause serious bodily harm and death. Please operate equipment carefully and observe proper safety procedures.

Rock crawling and off-road driving are inherently dangerous activities. Some modifications will adversely affect the on-road handling characteristics of your vehicle. All products sold by Low Range Off-Road are sold for off road use only. Any other use or application is the responsibility of the purchaser and/or user. Some modifications and installation of certain aftermarket parts may under certain circumstances void your original dealer warranty. Modification of your vehicle may create dangerous conditions, which could cause roll-overs resulting in serious bodily injury or death. Buyers and users of these products hereby expressly assume all risks associated with any such modifications and use.

Revised 12/03/12© Copyright 2012 Low Range Off-Road, LC All Rights Reserved

