#### **ZF Trouble Shooting Guide**

#### JLR 13 38 10\_2E

#### **General Information**

The ZF Trouble Shooting Guide (TSG) is a knowledge-based system. It is designed to aid diagnosis of transmission-related faults which have previously been encountered with ZF products in Land Rover applications.

The guide is intended to cover 6 speed transmission vehicles, which include the following;

- L320 Range Rover Sport
- L322 Range Rover

This file is intended as a supplement to the workshop manuals; specifically to accompany the Description & Operation, and Diagnosis and Testing sections.

It covers problems with both the transmissions themselves, and vehicle-related problems.

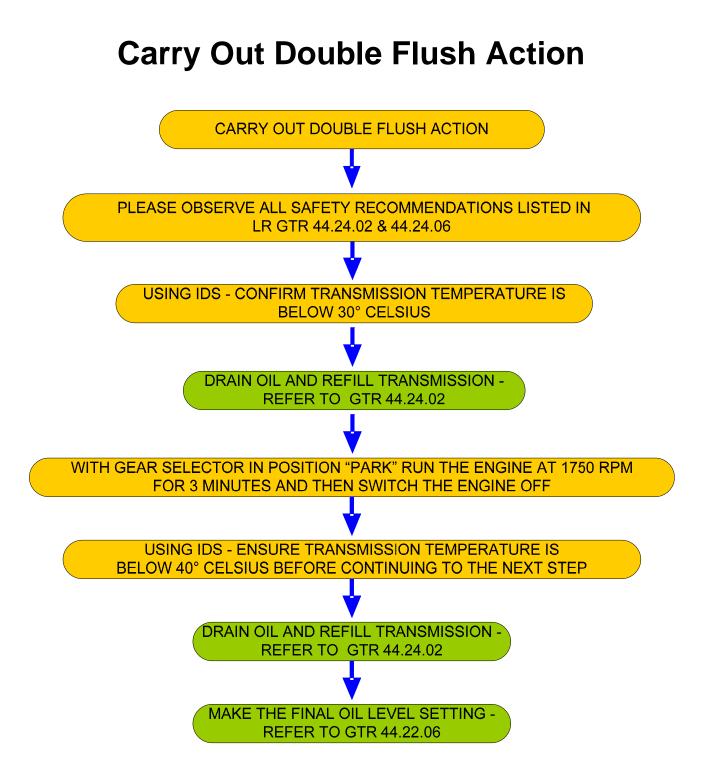
It has been compiled using information learned from investigations during assembly, field cases and at dealerships. The guide is a supplement based on 'real time' field issues and as such it will be updated on a regular basis.

If you have comments or questions relating to this publication please use the 'contact us' button on GTR.

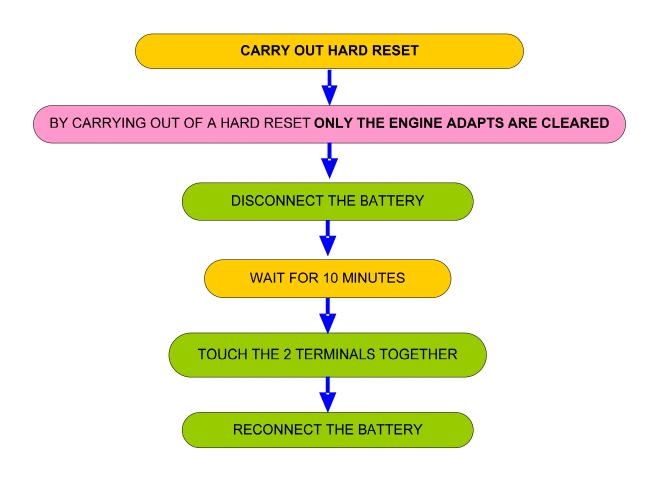
November

2007

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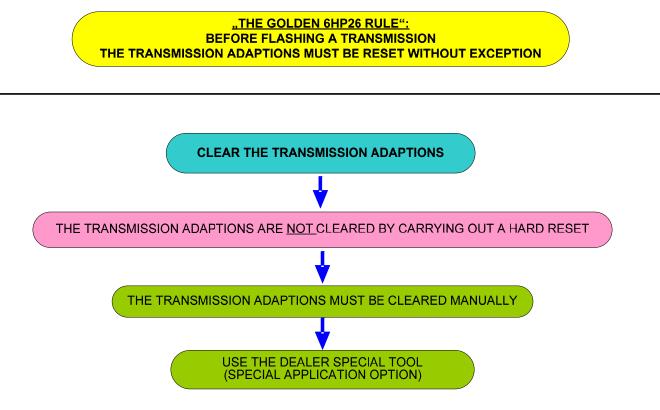
## Carry Out Hard Reset (Battery) – Clear Engine Adaptions



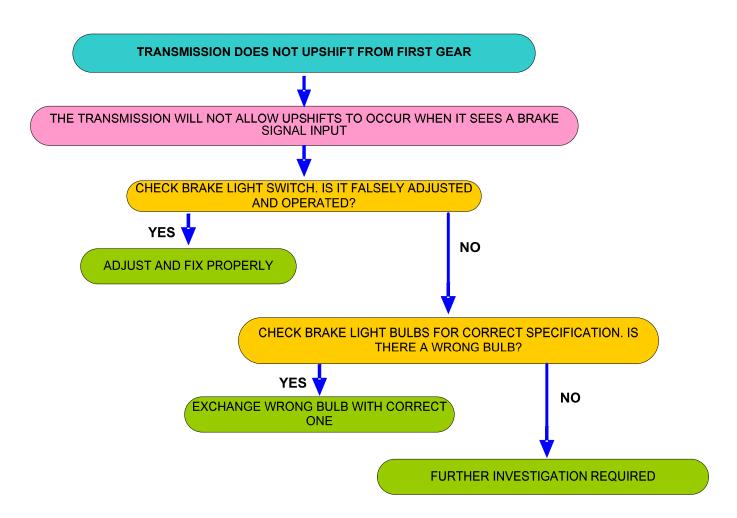




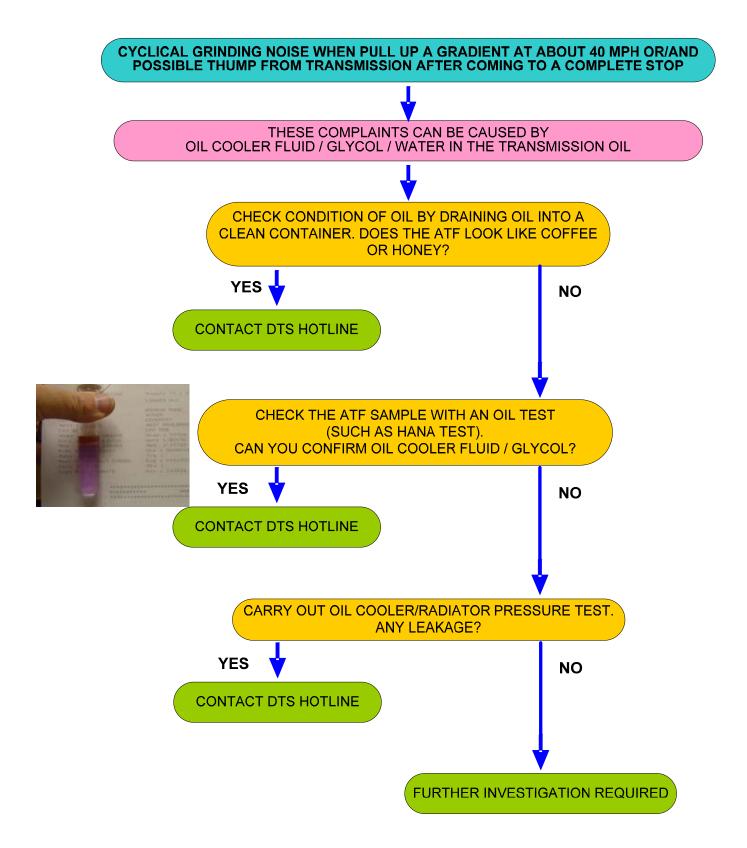
#### Clear Transmission Adaption Values (with Dealer Special Tool)



#### **Does Not Upshift From First Gear**

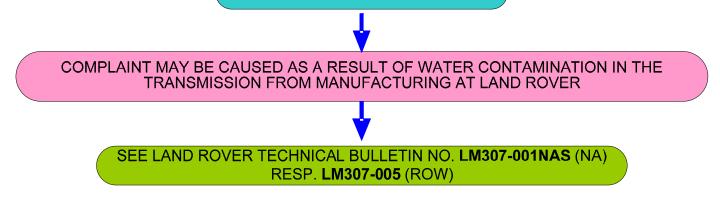


## **Grinding Noise At Constant Speed**

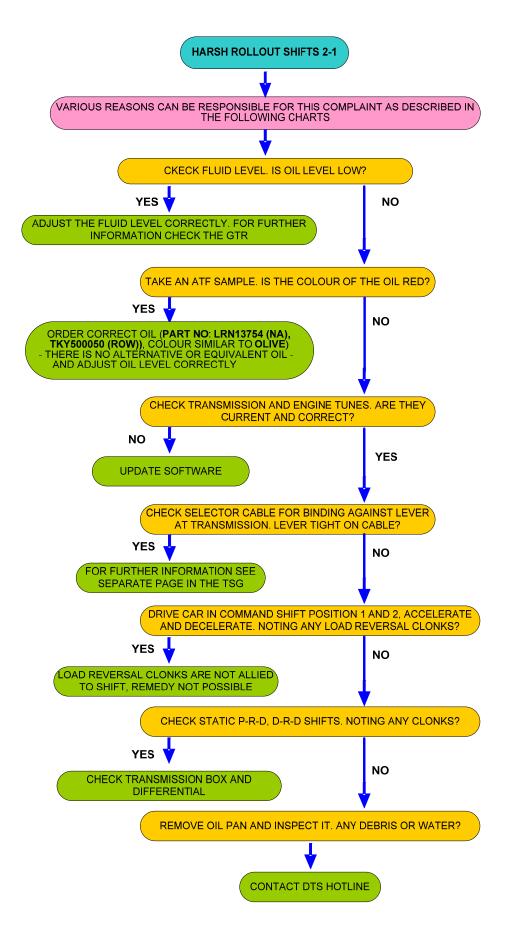


### Harsh Roll Out Shifts 2-1 (MY05 and MY06)

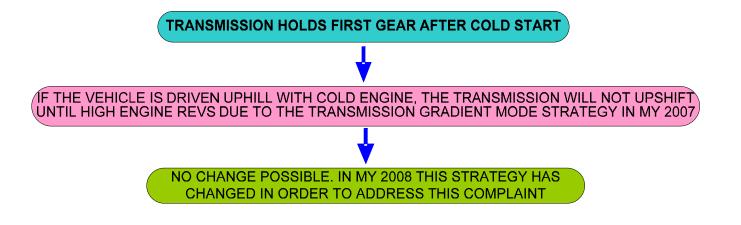
HARSH ROLL OUT SHIFTS 2-1



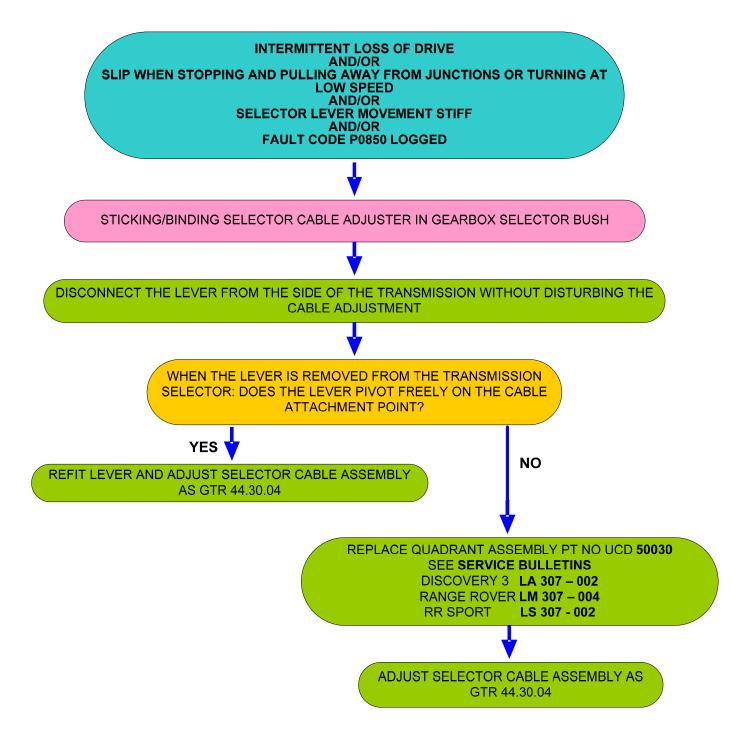
## Harsh Roll Out Shifts 2-1



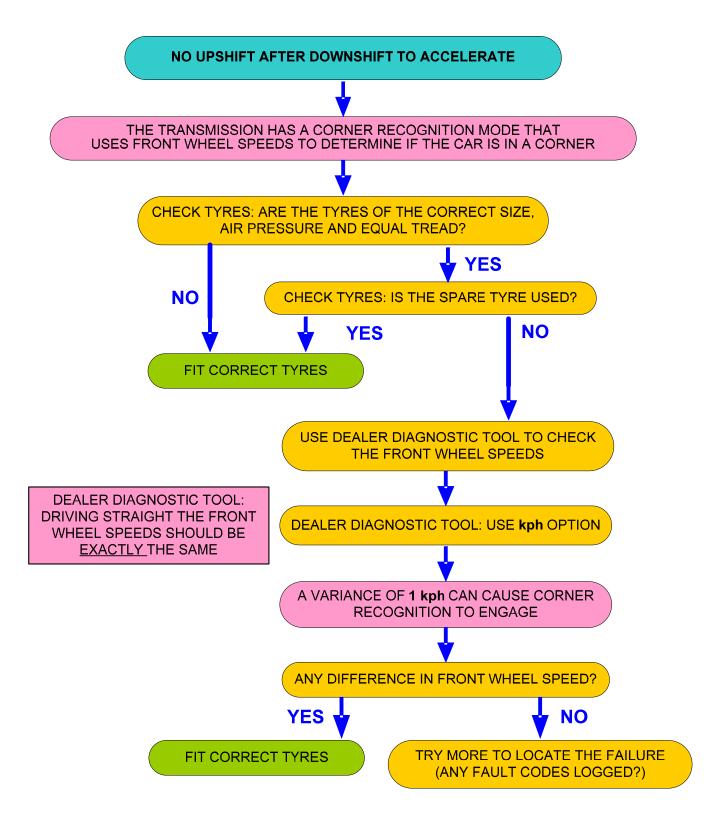
# Holds 1st Gear After Cold Start (MY07)



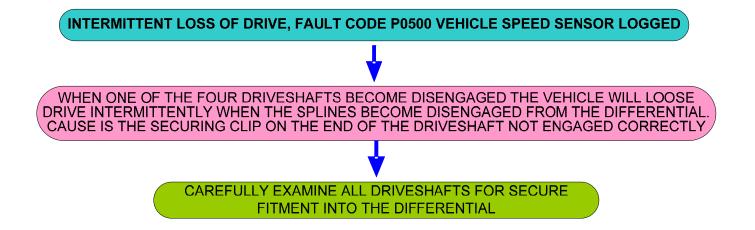
#### Intermittent Slip – Transmission Switches To N - Bump - Jerky - Selector Lever



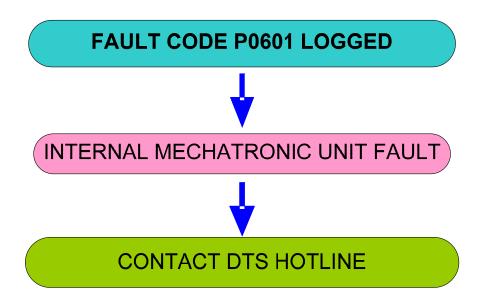


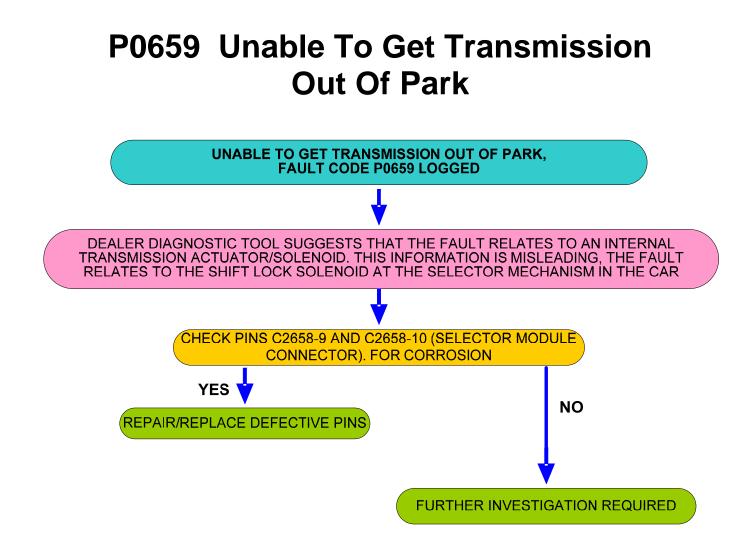


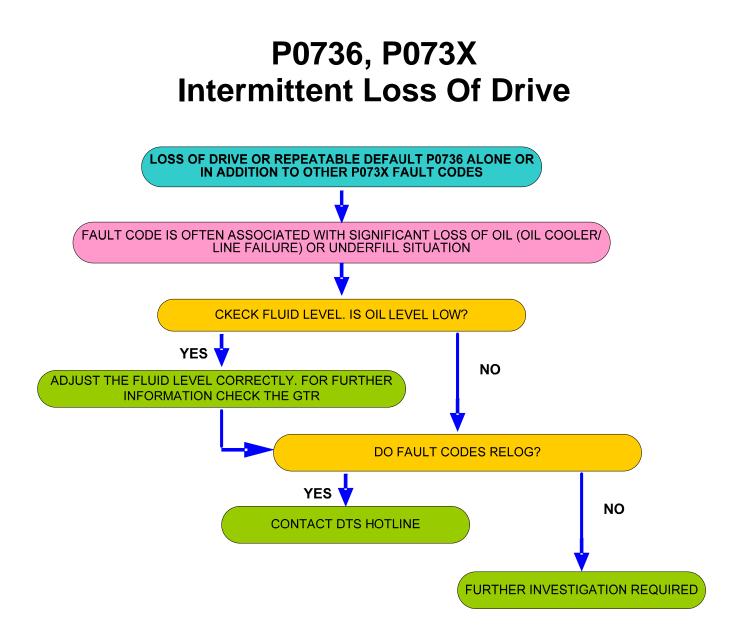
#### P0500 Vehicle Speed Sensor – Intermittant Loss Of Drive

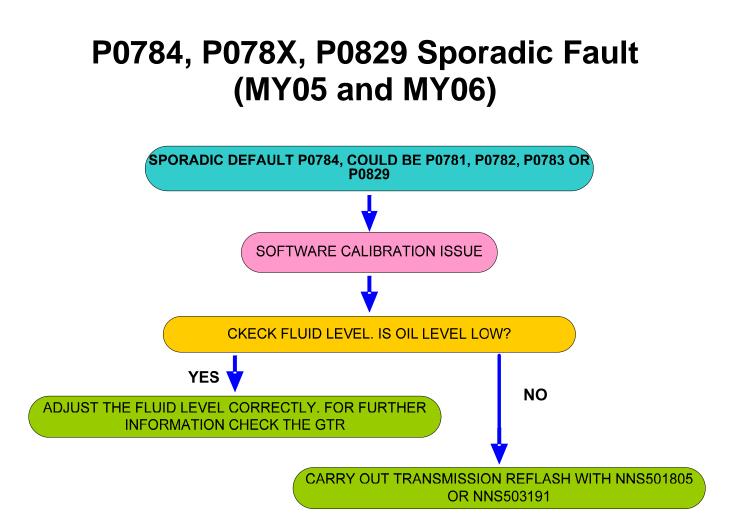


## P0601 Internal Mechatronic Unit Fault (07MY)

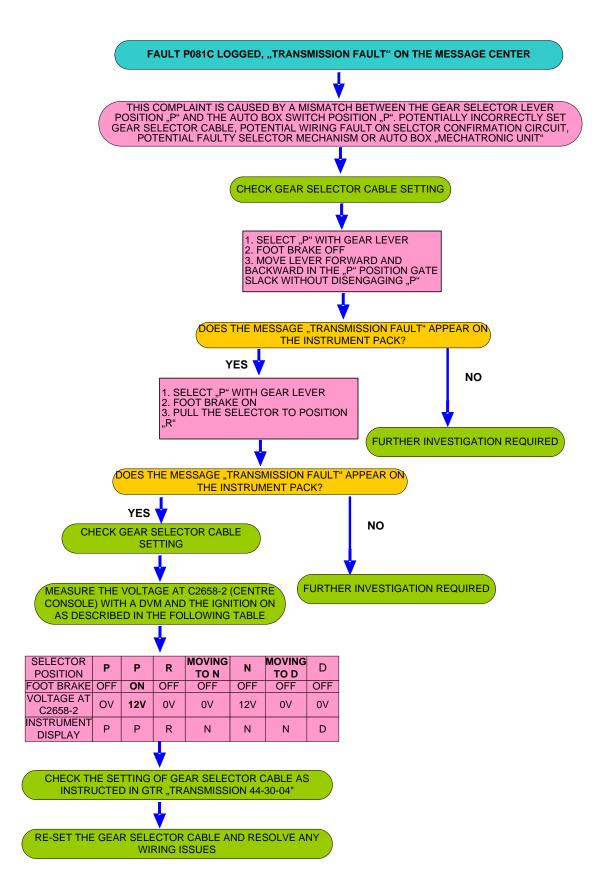




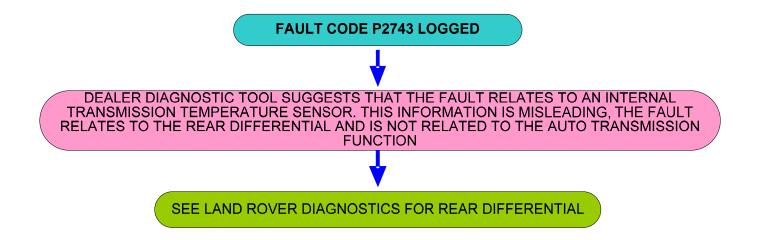




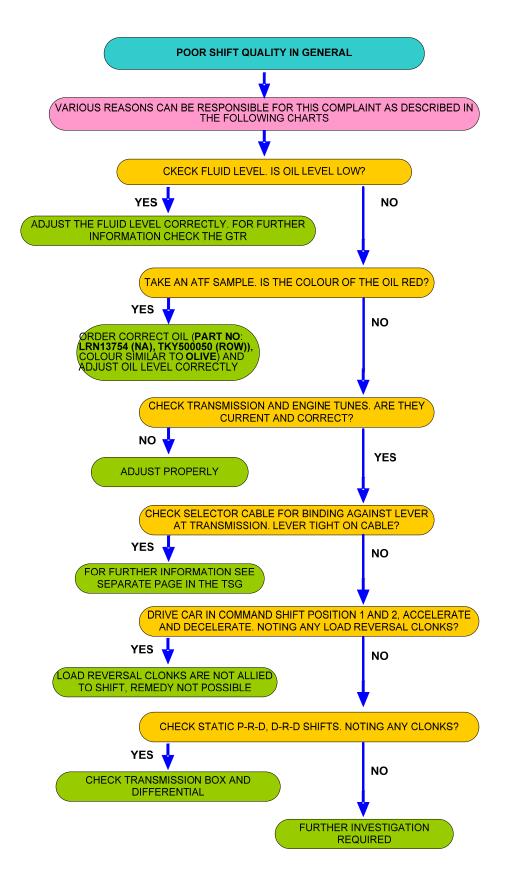
#### P081C Transmission Fault On Message Centre – Selector Cable



#### P2743 Rear Differential – Not Transmission Temperature Sensor

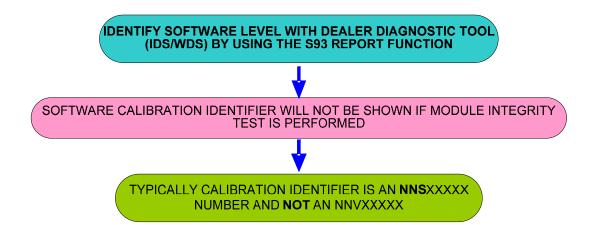


## **Poor Shift Quality (General)**

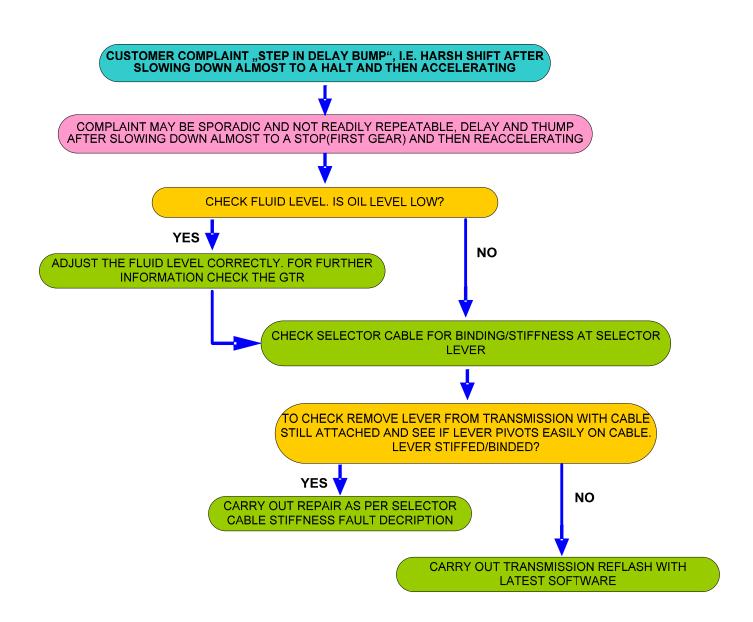


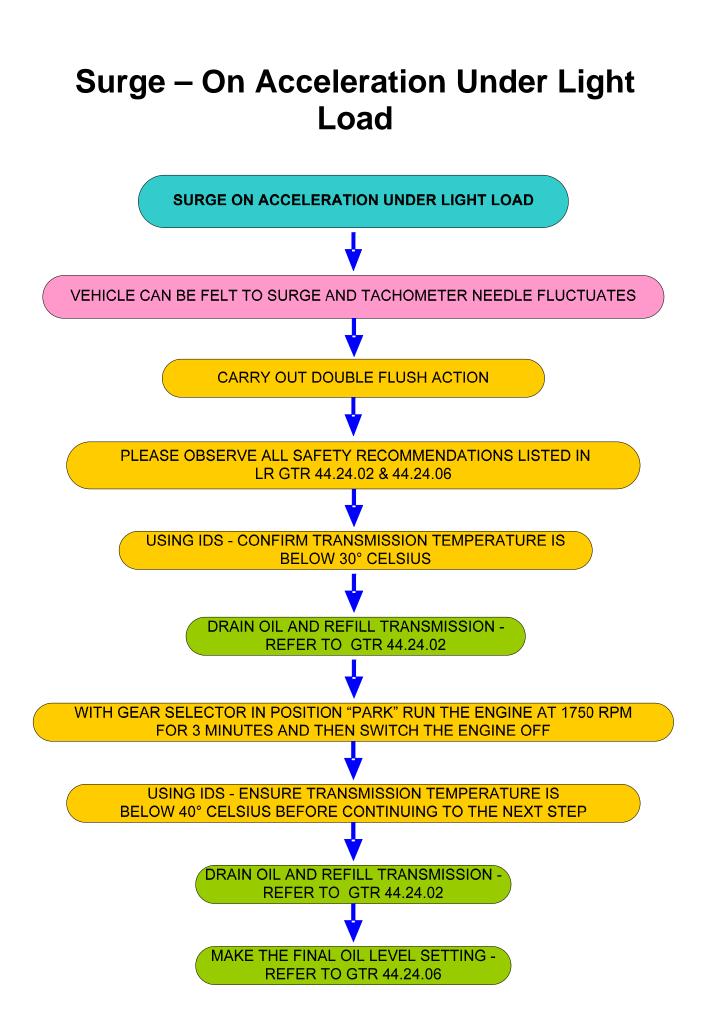
## **Software Calibration Identification**

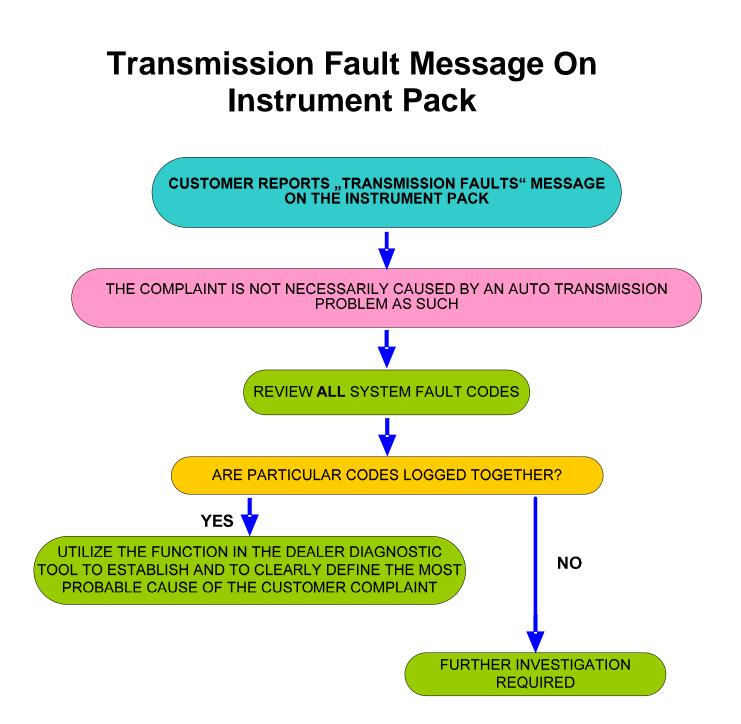
<u>"THE GOLDEN 6HP26 RULE":</u> BEFORE FLASHING A TRANSMISSION THE TRANSMISSION ADAPTIONS MUST BE RESET WITHOUT EXCEPTION



## Step In Delay - Bump (MY05 and MY06)







### **Transmission Overheat - Message**

