



XK

DATE 04/04

307-R513

**SERVICE****TECHNICAL BULLETIN****Incorrect Gear Selection –  
ZF 6 Speed Automatic Transmission –  
Recall Action R513**MODEL 2003-04 MY  
XK Range

VIN A29406-A37133

**Issue:**

A concern has been identified on 2003-04 MY vehicles within the above VIN ranges that are equipped with the six-speed automatic transmission.

If Drive (D) is selected with the vehicle stationary, the transmission may engage Reverse (R) if there is insufficient fluid pressure in the transmission and/or a sticking valve within the transmission. If this condition is present, the vehicle will default to Mechanical Limp Home mode and the Malfunction Indicator Lamp (MIL) will illuminate.

With the vehicle moving in a forward direction, reverse may engage without any manual input when the transmission is in first, second or third gear, as a result of transmission fluid loss allowing the fluid pressure to decrease. The vehicle will default to Mechanical Limp Home mode. The MIL lamp will illuminate if the transmission fluid pressure falls to below 4.1 bar.

**Action:**

Reprogram the Transmission Control Module (TCM) on all vehicles within the above VIN range, to the latest condition using Worldwide Diagnostic System (WDS) release **JTP 759/29 or later**.

All unsold vehicles or vehicles that have not been handed over to the customer must be repaired prior to sale or onward distribution.

Jaguar will be writing to all owners of affected vehicles requesting them to contact their nearest dealer as soon as possible to arrange for the TCM to be reprogrammed at the earliest opportunity.

To allow the transmission to adapt to the customer's driving requirements after the TCM has been reprogrammed, the vehicle will need to be driven, by the customer, for approximately 50 miles (80 kilometers) without using the sport mode switch. This information must be communicated verbally to the customer when the vehicle is booked

**NOTE: THE INFORMATION IN TECHNICAL BULLETINS IS INTENDED FOR USE BY TRAINED, PROFESSIONAL TECHNICIANS WITH THE KNOWLEDGE, TOOLS, AND EQUIPMENT TO DO THE JOB PROPERLY AND SAFELY. IT INFORMS THESE TECHNICIANS OF CONDITIONS THAT MAY OCCUR ON SOME VEHICLES, OR PROVIDES INFORMATION THAT COULD ASSIST IN PROPER VEHICLE SERVICE. THE PROCEDURES SHOULD NOT BE PERFORMED BY "DO-IT-YOURSELFERS." DO NOT ASSUME THAT A CONDITION DESCRIBED AFFECTS YOUR CAR. CONTACT A JAGUAR RETAILER TO DETERMINE WHETHER THE BULLETIN APPLIES TO YOUR VEHICLE.**

in for the repair to be undertaken.

The reprogramming of the TCM is dependant upon the temperature of the transmission. If the transmission is not within the specified temperature values for the TCM to be reprogrammed, the retailer will need to consider the level of courtesy service that should be provided to customers while performing this action.

### OPEN SERVICE ACTIONS

This is an ideal opportunity to ensure that any outstanding Service Actions are completed on all vehicles included within this Recall Action. A list of the current open service actions is shown below. Please ensure that you check that the vehicle is affected by the service action prior to confirming the booking with your customers so that suitable time and parts are made available prior to the repair visit. This can be done by using the outstanding service action function within DDW, using your own internal records and by checking the original service action bulletin. It is also important that you ensure that the repair has not already been completed, as **NO** repeat service action claims will be accepted.

S506 Lack of Power Assistance - XK

S840 Battery Quiescent Drain - XK

S844 OBD System Readiness Flag P1111 Fails to Set - XKR

### WORKSHOP PROCEDURE

Before reprogramming the Transmission Control Module (TCM) ensure that the following requirements are met:

- The Portable Test Unit (PTU) is docked on the WDS base station, with the base station plugged in to line voltage.
  - Vehicle battery is charged to a minimum of 12.5 volts.
  - All Diagnostic Trouble Codes (DTCs) are cleared.
  - Transmission oil temperature is within the recommended value of between minus 55 degrees Celsius and plus 80 degrees Celsius.
1. Open door.
  2. Ensure ignition is switched off, hand brake is on and selector lever is in Park (P).
  3. Position WDS alongside the vehicle, switch WDS on and allow software to load.

**Note:** WDS must be loaded with the latest issue of software (WDS 29 or later.)

**⚠ Caution: Never use software prior to WDS 29 to reprogram the TCM since this will return the calibration to an earlier level.**

4. Connect PTU to vehicle using diagnostic cable.
5. Enter the VIN and navigate to the vehicle configuration main menu.

- From the vehicle configuration main menu, navigate to and run the 'Re-configure existing TCM' application.

**Note:** As part of the reprogram process, a pop up screen stating 'select the access route you require' will be displayed, at this point the technician must select '**normal access**'.

**Note:** If the message 'The vehicle does not require reprogramming – the latest software is installed. Do you wish to continue?' appears, the dealer **MUST SELECT NO**. This message indicates that the vehicle has undergone a previous software update and does not require reprogramming. No further action is required.

- After successful reprogramming of TCM, switch off, disconnect, and return the WDS to the original location.
- Close door.

## APPLYING MODIFICATION LABEL

**AUTHORIZED MODIFICATION LABEL**

ILLUSTRATION 1

Fill out an authorized modification label (Illustration 1), enter the dealer number and date on the authorized modification label. List any other service actions that have been performed at the same time. Apply the label to the A-post on S-TYPE and XJ, and on the B-post on XK. Apply the clear sheet over the label.

### Warranty Information:

Warranty claims should be submitted quoting program code R513 together with the relevant option code from the table below. This will result in payment of the appropriate time to reprogram the TCM.

The options that allow for drive in/drive out should only be claimed if the vehicle is brought into the workshop for only this recall action.

### Recall Action R513

Model	VIN Range
2003 MY XK	<b>32A29406 - 32A36873</b>
2003 MY XKR	<b>33A29406 - 33A36873</b>
2004 MY XK	<b>42A36874 - 42A37133</b>
2004 MY XKR	<b>43A36874 - 43A37133</b>

Program Code	Option	Description	SRO	Time	Part Number	Part Description	Qty
R513	B	Re-program TCM	86.93.36	0.4 hrs.	-	-	-
R513	C	Re-program TCM	86.93.36	0.4 hrs.	-	-	-
		Drive in/drive out	10.10.10	0.1 hrs.			

**NOTE:** Always perform a DDW claim search first to determine whether this recall action has been performed on this vehicle. The "Review Claim History" function will provide a listing of all claims against the vehicle. If this recall action number appears in the program code field, do not perform this recall action.