



TECHNICAL BULLETIN

No: RB037
Issue: 1
Date: 25 May 2006

CIRCULATE: TO	Service Mgr	Warranty	Workshop	Body Shop	Parts
	X	X	X	X	X

SECTION: 308

RECALL: Transfer Case Control Module Tune Download

AFFECTED VEHICLE RANGE:

LR3 (LA)	VIN: 5A322770* to 6A391562
Range Rover Sport (LS)	VIN 6A900294 to 6A957409

***NOTE:** LR3 vehicles prior to this VIN that have had a module replacement or a tune update may be affected by this Recall and will be identified in DDW as subject to the Recall Action. Always check LR3 vehicles in DDW to ensure all such "repaired" vehicles are captured in the Recall.

CONDITION SUMMARY:

IGNITION KEY REMOVAL WITH GEARBOX NOT IN 'PARK'

Situation:

Land Rover has decided to recall all affected vehicles to install updated Transfer Case Control Module software. On the affected vehicles, when the ignition is switched off, after a period of time it is possible to remove the ignition key when the transmission shift lever has not been placed in the "P" (park) position. As a result, these vehicles do not comply with FMVSS 114 (CMVSS 114), which requires the transmission shift lever to be in "P" (park) for the key to be removed from the ignition.

Action:

Refer to the Repair Procedure of this bulletin for instructions on the tune update installation.

PARTS:

No parts required

TOOLS

WDS SoftwareCD13 with Patches 1, 2, 3, 4

WARRANTY:



NOTE: Always refer to DDW to verify vehicle eligibility for this Service Campaign and to determine if the vehicle is affected by any other Service Actions.

Warranty claims should be submitted quoting program code **B037** together with the appropriate option code. As option codes are used, there is no requirement to enter parts or labor. They are provided for information only.

Drive in/drive out can only be claimed if the vehicle is brought back into the workshop for this action alone to be undertaken.

Program Code	Option	Job Description	SRO	Time (Hours)	Part Number	Part Description	QTY	Misc Expense
B037	B	Transfer Control Unit Software Reflash	41.30.89/27	0.2	N/A	N/A	N/A	N/A
B037	C	Transfer Control Unit Software Reflash	41.30.89/27	0.2	N/A	N/A	N/A	N/A
		Drive in/Drive out	02.02.02	0.2				

Normal warranty policy and procedures apply.

NOTE: The information in Technical Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment required 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." If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Land Rover service facility to determine whether the bulletin applies to a specific vehicle.



REPAIR PROCEDURE

DOWNLOAD UPDATE TUNE

1. If WDS has previously had the patch file (WDS CD13 - Patch File 4) installed, go to step 5.



NOTE: The software patch installation help file provides instructions for the patch file installation process and could take up to six minutes to download dependent on connection speed. For information on how to confirm that the patch file has been installed onto WDS, refer to the patch process help file.



NOTE: GTR lookup sequence is as follows:

GTR Home > NAS > Diagnostics/ LA – LR3/2006 > Patch Files > "Patch Process Help File" link

2. Logon to GTR from an internet connected PC and download the WDS software patch installation help file as follows:

- Select 'Home' from the menu at the top of the main page.
- From the menus on the left of the page, select 'Diagnostics' as the 'Information Type' and select the relevant model and model year.
- From the 'All Information' results, select 'Patch Files'.
- Click the file link 'Patch Process Help File'.



NOTE: Patch file download could take up to twenty minutes dependent on connection speed.

3. Using the help file as a guide, follow the instructions to download and save WDS CD13 - Patch File 4.



CAUTION: Before upgrading WDS CD13 with Patch File 4, Patch Files 1, 2 and 3 MUST be loaded. Each patch file must be downloaded separately and in sequence: Patch 1 then 2 then 3 then 4. Patch files may not be loaded any other way than one patch at a time.

4. Install the software patch file 'WDS CD13 - Patch File 4' into T4/ WDS and verify that WDS successfully restarts.



CAUTION: The diagnostic lead must be correctly secured to ensure it cannot be accidentally disconnected during software update.



NOTE: An approved power supply (Midtronics PSC550) must be connected to the vehicle battery during diagnosis/module configuration.

5. Connect the power supply and diagnostic equipment to the vehicle and begin a WDS session.

6. Note the current software levels of the control module as follows:

- Enter the vehicle details.
- Select the 'Vehicle Configuration' tab.
- Select 'Module Information'
- Select 'Network integrity test'
- Note the software part numbers displayed on the screen (latest level software is **NNV504230**).



 **NOTE:** During module configuration, the on-screen software part number information that WDS will display can be checked and compared to the software part number noted in step 6 above. If the same tune level is displayed, the vehicle already has the desired software level and the tune download process can be aborted.

 **CAUTION:** Vehicle Preparation must have been performed prior to any attempt to use WDS for this tune download.

7. Configure the Transfer Case Control Module:
 - Return to the 'Vehicle Configuration' screen and select 'Module Configuration.'
 - Select 'Configure Existing Modules.'
 - From the sub-menu, select ' Transfer Case Control Module.'
 - Check the tick-box to continue and follow the on-screen instructions.
 - Compare the on-screen software part number information that WDS will display with the software part number noted in step 6 above.
 - If the **same** tune level is displayed, terminate the tune download.
8. Repeat step 6 to confirm the software level change.
9. Exit the WDS session and disconnect the diagnostic equipment and battery charger from the vehicle.

Technical Q&A



Land Rover Recall B037	
LR3/Range Rover Sport – Ignition Key Removable with Automatic Transmission Not in Park	

Main Message: An issue has been identified on a number of automatic LR3 and Range Rover Sport vehicles built between 11 February 2005 and 11th April 2006 (VIN range 5A322770 to 6A391562 and 6A900294 to 6A957409).

Additionally, any LR3/Range Rover Sport automatic vehicle that has had a replacement transfer box ECU or software upgrade on the transfer box, prior to 11 April 2006 are also affected.

The mechanism that prevents the removal of the key from automatic vehicles when the gear shift lever is not in PARK, may become inactive a period of time after the ignition has been turned off. This may mean that the key could be removed while the transmission lever is not in the "P" (park) position.

Q1	Why is Land Rover recalling certain models?
A	Land Rover is conducting a voluntary compliance recall involving LR3/Range Rover Sport automatic vehicles to reprogram the Driveline Control Transfer Box control module.
Q2	Can you tell me more about what is wrong with the vehicles?
A	Due to a software error within the transfer box control module, it may become possible for the ignition key to be removed while the gear shift lever is not in the "P" (park) position.
Q3	Does this recall affect vehicle safety?
A	Overall vehicle safety is not impaired.
Q4	Has Land Rover received many complaints?
A	Land Rover has not directly received any customer complaints related to this concern.
Q5	Have there been any accidents or injuries?
A	There are no known accidents or injuries attributable to this condition.
Q6	How was the condition discovered?
A	This condition was discovered during routine inspections at the factory.

Technical Q&A



Q7	What has Land Rover done in production?
A	As soon as the issue was verified, all production vehicles were checked and reworked as necessary. New known good parts were introduced into production.
Q8	What will authorized repairers do to the vehicles?
A	Authorized repairers will reprogram the Driveline Control Transfer Box control module with revised software.
Q9	Which vehicles are affected by this recall?
A	LR3 and Range Rover Sport vehicles built between 11 February 2005 and 11 th April 2006 (VIN range LA322770 to LA391562 and LS900294 to LS957409). Additionally, any LR3/Range Rover Sport automatic vehicle that has had a replacement transfer box ECU or software upgrade on the transfer box, prior to 11 th April 2006 are also affected.
Q10	Are other Land Rover models affected by these actions?
A	No other models are known to be affected.
Q11	Are parts available to re-work vehicles?
A	No parts are required, software is available.
Q13	How much will the recall cost Land Rover?
A	Cost was not a factor in deciding to recall these vehicles.
Q14	How do I know if my LR3/Range Rover Sport is affected?
A	All owners of potentially affected vehicles will shortly receive a letter inviting them to contact a Land Rover authorized repairer for the work to be carried out.
Q15	Can customers check their own vehicles?
A	No. A Land Rover authorized repairer will carry out the re-work free-of-charge.
Q16	How long does it take for the car to be inspected and repaired?
A	The work will be carried out as quickly and efficiently as possible in order to minimize inconvenience to customers and is expected to take no longer than 30 minutes to complete. Naturally, due to dealer schedules, vehicles may be required for longer.
Q17	Can I continue to drive my LR3/Range Rover Sport safely until it has been recalled?
A	The vehicle is safe to drive but caution should be taken when Parking the vehicle to ensure the gear shifter is in the "PARK" position before removing the ignition key.