



LTB00906NAS5

TECHNICAL BULLETIN

17 MAY 2018

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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 this bulletin applies to a specific vehicle.

INFORMATION

This reissue replaces all previous versions. Please destroy all previous versions.

Changes are highlighted in blue

SECTION:

308-07B / C: Transfer Case

SUBJECT/CONCERN:

Judder From Transfer Case

AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:
Range Rover Sport (LW)	2014	001154-001205	Solihull	Vehicles With: Twin Speed Transfer Case
Range Rover Sport (LW)	2014	300003-399997	Solihull	Vehicles With: Twin Speed Transfer Case
Range Rover Sport (LW)	2014-2016	500023-599998	Solihull	Vehicles With: Twin Speed Transfer Case
Range Rover Sport (LW)	2014-2016	600000-666793	Solihull	Vehicles With: Twin Speed Transfer Case
Range Rover Sport (LW)	2016	100000-124026	Solihull	Vehicles With: Twin Speed Transfer Case
Range Rover (LG)	2013-2016	001204-320323	Solihull	Vehicles With: Twin Speed Transfer Case

MARKETS :

NORTH AMERICA

CONDITION SUMMARY:

NOTE:

For vehicles where a judder is still evident after performing a previous version of this Technical Bulletin, go to Workshop Procedure 'B'.

SITUATION:

On vehicles fitted with the twin speed transfer case, a judder may be felt from underneath the vehicle when steering at low vehicle speeds, such as turning left or right at an intersection.

CAUSE:

This may be caused by oil degradation in the twin speed transfer case.



ACTION:

Should a customer express this concern, follow the Diagnostic and/or appropriate Workshop Procedure below.

PARTS:

PART NUMBER	DESCRIPTION	QUANTITY
IYK500010	Transfer Case Oil - Workshop Procedure 'A' only	5
IYK500010	Transfer Case Oil - Workshop Procedure 'B' only	3
IYF500030	Washer	4
LR048842	Washer	4
LR105429	Clutch kit	1
TYG500130	Bolt	4
TYG500141	Bolt	6
STC50550	Sealant	1
IZB500030	Seal	1
IYX500050	O-ring seal	1

TOOLS:

 <p>E192494</p>	<p>Jaguar Land Rover-approved Midtronics battery power supply</p>	 <p>E179225</p>	<p>Jaguar Land Rover-approved diagnostic tool with latest SDD Software Management Pack</p>
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WARRANTY:

NOTES:

- Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to JLR claims submission system to obtain the latest repair time.
- The JLR Claims Submission System requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Transfer case drain and refill - Double flush	41.20.89.39	0.4	04	LR052557
Transfer case drain and refill - Single flush	41.20.04	0.2	04	LR052557
Configure existing Transfer Case Control Module (TCCM)	41.90.03	0.2	04	LR052557
Complete road test	10.41.17	0.3	04	LR052557
Transfer box - Multi plate clutch assembly - Renew - V8 5.0L Petrol; V8 5.0L S/C Petrol	41.20.87	3.2	04	LR052557
Transfer box - Multi plate clutch assembly - Renew - V6 3.0L S/C Petrol	41.20.87	3.2	04	LR052557
Transfer box - Multi plate clutch assembly - Renew - Range Rover Sport (L494; TDV6 3.0L Diesel)	41.20.87	3.1	04	LR052557
Transfer box - Multi plate clutch assembly - Renew - Range Rover (L405; TDV6 3.0L Diesel)	41.20.87	2.6	04	LR052557

NOTE:

Normal Warranty procedures apply.

DIAGNOSTIC PROCEDURE:**CAUTIONS:**

- A Jaguar Land Rover-approved Midtronics battery power supply must be connected to the vehicle startup battery during diagnosis / module programming.

- All ignition ON/OFF requests must be carried out. Failure to perform these steps may cause damage to control modules in the vehicle.

△ NOTES:

- Use the Jaguar Land Rover claims submission system to check for Field Service Action program eligibility requiring a Transfer Case Control Module (TCCM) software update. If eligible, perform and claim the update as per that program using the latest SDD software.

For vehicles where a judder is still evident after performing a previous version of this Technical Bulletin, go to Workshop Procedure 'B'.

- 1 Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle startup battery.

2 △ NOTE:

The Jaguar Land Rover-approved diagnostic tool must be loaded with SDD153.02 Software Management Pack v294 (or later).

Connect the Jaguar Land Rover-approved diagnostic tool to the vehicle and begin a new session.

- 3 Follow all on-screen instructions, allowing the diagnostic tool to read the VIN, identify the vehicle, and initiating the data collect sequence.

- 4 If the hyperlink is not available:

- 1 Select **Diagnosis** from the Session Type screen.
- 2 Select the **Selected Symptoms** tab.
- 3 Select **Powertrain - Automatic transmission and transaxle - Automatic transmission and transaxle symptoms - Transfer case inconsistent operation**
- 4 Run and close the '**Datalogger**' tool to reveal the '**Extras**' tab.
- 5 Select the **Extras** tab.
- 6 Select **Run** to perform the '**Configure existing module - Transfer case control module**' option.

- 5 Follow all on-screen instructions until the application completes successfully.
 - 1 When prompted, select the **Clear DTCs** option following completion of the software download.
 - 2 When all tasks are complete, go to the next Step.

- 6 Exit the current session.
 - 1 Select the **Session** tab.
 - 2 Select the **Close Session** option.

- 7 Disconnect the diagnostic tool and battery power supply from the vehicle.
 - 1 Go to Workshop Procedure 'A' below.

WORKSHOP PROCEDURE 'A':

NOTE:

For vehicles where a judder is still evident after performing a previous version of this Technical Bulletin, go to Workshop Procedure 'B'.

- 1 Flush the transfer case oil (see TOPIx Workshop Manual section 308-07B / C: Transfer Case - Vehicles With: Twin Speed Transfer Case - General Procedures - Transfer Case Draining and Filling).
- 2 Perform a vehicle road test.
 - 1 The road test should include maneuvering the vehicle around corners and roundabouts in both high and low range drive where possible
- 3 Flush the transfer case oil (see TOPIx Workshop Manual section 308-07B / C: Transfer Case - Vehicles With: Twin Speed Transfer Case - General Procedures - Transfer Case Draining and Filling).

- 1 The road test should include maneuvering the vehicle around corners and roundabouts in both high and low range drive where possible

4 Perform a vehicle road test.

- 1 The road test should include maneuvering the vehicle around corners and roundabouts in both high and low range drive where possible
 - If the judder is not present after the road test, **do not continue with this Technical Bulletin.**
 - Release the vehicle to the customer.
 - If the judder is still present after the road test, **go to step 5.**

5 Replace the transfer case multiplate clutch assembly (see TOPIx Workshop Manual section 308-07B / C: Transfer Case - Vehicles With: Twin Speed Transfer Case - Removal and Installation - Transfer Case Multiplate Clutch Assembly).

- 1 Release the vehicle to the customer.

WORKSHOP PROCEDURE 'B':

1 Flush the transfer case oil (see TOPIx Workshop Manual section 308-07B / C: Transfer Case - Vehicles With: Twin Speed Transfer Case - General Procedures - Transfer Case Draining and Filling).

2 Replace the transfer case multiplate clutch assembly (see TOPIx Workshop Manual section 308-07B / C: Transfer Case - Vehicles With: Twin Speed Transfer Case - Removal and Installation - Transfer Case Multiplate Clutch Assembly).