

TECHNICAL BULLETIN

LTB00909NAS1

25 APR 2016



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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.

SECTION: 205-00

Active Driveline Power Transfer Unit Internal Oil Leak

AFFECTED VEHICLE RANGE:

Discovery Sport (LC)

Model Year: 2015 Onwards

VIN: 500429 Onwards

Assembly Plant: Halewood

With: Active Driveline

Range Rover Evoque (LV)

Model Year: 2014 Onwards

VIN: 856580 Onwards

Assembly Plant: Halewood

With: Active Driveline

MARKETS:

NAS

CONDITION SUMMARY:

Situation: The message "2 wheel drive only, traction reduced" may be displayed in the Instrument Cluster. There may also be an oil smell in the vehicle cabin.

Cause: This may be caused by the circlip retaining the actuation piston being incorrectly fitted, resulting in hydraulic fluid leaking past the piston into the Power Transfer Unit (PTU). This hydraulic oil then mixes with the PTU gear oil, contaminating gears, bearings, and synchronizer components. This then drains the reservoir in the Rear Drive Unit (RDU) causing the Diagnostic Trouble Code (DTC) P0942-7A to set indicating Hydraulic Pressure Unit - Fluid leak or seal failure.

Action: Should a customer express this concern, follow the Service Instruction below.

PARTS:

LR051076	Active Driveline Power transfer unit	Quantity: 1
LR019727	AD PTU BOT720 Oil	Quantity: 2
LR052439	AD Actuator Pentosin CHF11S Oil	Quantity: 2
LR001193	Driveshaft bolts	Quantity: 6
LR024151	Driveshaft HEX NUT TYPE, M24X2.0	Quantity: 1

TOOLS:



NOTE: This Active Bulletin will display a functional programming shortcut if accessed within a diagnostic session.

Jaguar Land Rover-approved diagnostic tool with latest DVD and Calibration File

Jaguar Land Rover-approved Midtronics battery power supply

Refer to the Service Instruction/Workshop Manual for any required special tools.

WARRANTY:

 **NOTE: 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 TOPIx to obtain the latest repair time.**

 **NOTE: DDW 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
Power transfer unit - Renew - Vehicles with Active Driveline - Discovery Sport (L550)	41.25.10.34	2.80	42	LR051076
Rear axle - Drain and refill - Discovery Sport (L550)	51.25.02	0.2	42	LR051076
Lubrication System - Bleed - Discovery Sport (L550)	41.25.07	0.2	42	LR051076
Power transfer unit - Renew - Vehicles with Active Driveline - Range Rover Evoque (L538)	41.25.10.34	2.00	42	LR051076
Rear axle - Drain and refill - Range Rover Evoque (L538)	51.25.02	0.1	42	LR051076
Lubrication System - Bleed - Range Rover Evoque (L538) -	41 25 07	0.2	42	LR051076

 **NOTE: Normal Warranty procedures apply.**

SERVICE INSTRUCTION:

- Carry out the recommended checks as indicated for Diagnostic Trouble Code (DTC) P0942-7A in the table of the TOPIx Workshop Manual section 100-00: General Information - Diagnostic Trouble Code (DTC) Index DTC: All wheel drive Control Module (AWDCM) until reaching the step 'Using the manufacturer approved diagnostic system, re-configure the all wheel drive control module with the latest level software using the manufacturer approved diagnostic system'. Do not reconfigure the AWDCM.
 - If a fault is found during the recommended checks, repair as necessary, clear DTCs, and retest.
 - If no fault found, continue to Step 2.
- Drain the Power Transfer Unit (PTU) fluid into a suitable measuring container (see TOPIx Workshop Manual, section 308-07A: Four-Wheel Drive Systems - Vehicles With: Active Driveline - Transfer Case Draining and Filling).
 - If the fluid drained is more than 0.43 liters, this indicates that hydraulic fluid is leaking internally in the PTU.
 - Continue to Step 3.
 - If the fluid drained is not more than 0.43 liters, fill the PTU with new oil (see TOPIx Workshop Manual, section 308-07A: Four-Wheel Drive Systems - Vehicles With: Active Driveline - Transfer Case Draining and Filling) and proceed as indicated in the DTC P0942-7A list in TOPIx.
- Replace the PTU (see TOPIx Workshop Manual, section 308-07C: Transfer Case - Vehicles With: M66 6-Speed Manual Transmission AWD/9HP48 9-Speed Automatic Transmission - AWD).
- Fill and bleed the Rear Drive Actuator (see TOPIx Workshop Manual, section 205-02B: Rear Drive Axle/Differential - Vehicles With: Active Driveline - Hydraulic System Filling and Bleeding).

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

 **CAUTION: Ensure all ignition ON/OFF requests are carried out; failure to perform these steps may cause damage to control modules in the vehicle.**

 **NOTE: The Jaguar Land Rover-approved diagnostic tool must be loaded with DVD144.08 v.231 or later.**

- Connect the Jaguar Land Rover-approved Midtronics battery power supply to the vehicle battery.
- Turn ignition ON (engine not running).

7. Connect the Jaguar Land Rover-approved diagnostic tool to the vehicle and begin a new session.
8. Follow the on-screen prompts, allowing the diagnostic tool to read the VIN, identify the vehicle, and initiating the data collect sequence.
9. Select '**Diagnosis**' from the Session Type screen.
10. Select the '**Selected Symptoms**' tab and then select:
 - **Powertrain - Automatic transmission and transaxle - Automatic transmission and transaxle symptoms - Fluid leaks**
11. Select '**continue**'.
12. Select the '**Recommendations**' tab and then select '**Run**' to perform the '**All wheel drive - All wheel drive system - Pump bleed**' option.
13. Follow all on-screen instructions to complete this task, ensuring all Diagnostic Trouble Codes (DTC) are cleared.
14. When all tasks are complete, select the '**Session**' tab and then select the '**Close Session**' option.
15. Disconnect the diagnostic tool and battery power supply from the vehicle.