TECHNICAL BULLETIN

LTB00304NAS5

05 APR 2012

ISSUE '5' CHANGES ARE HIGHLIGHTED IN GRAY

SECTION: 310

Fuel Gauge Operation

AFFECTED VEHICLE RANGE:

LR4 (LA)	**VIN:**	**AA510742 - BA595923**
	Model Year:	**2010 - 2011**
Range Rover Sport (LS)	**VIN:**	**AA212147 - BA299999**
		BA700000 - BA715869
	Model Year:	**2010 - 2011**

CONDITION SUMMARY:

Situation: The fuel gauge may experience one or more of the following issues:

- Fuel gauge erratic
- Fuel gauge inoperative
- Fuel gauge fluctuates
- Fuel gauge switches 'ON / OFF' intermittently

These issues may be caused by a poor harness connection or backed-out terminals inside the fuel tank, fuel pump module, or flange assembly.

△ **NOTE: If the fault is intermittent and cannot be verified during diagnosis, all of the checks detailed in this bulletin should be carried out and repairs made as required. If a failure to the harness or individual fuel sender cannot be verified at any point during the diagnostic stage, both fuel level senders and flange should be replaced to avoid the possibility of a repeat repair.**

Action: In the event of a customer concern of the above, refer to the Repair Procedure outlined below for diagnosis and repair information.

PARTS:

△ **NOTE: Parts to be used only if no wiring fault is found.**

CN100509 .....Clip	**Qty: 1**
LR000966 .....Gasket	**Qty: 1**
LR028456 .....Flange	**Qty: 1**
LR014999 .....Rear (active) float sender - LR4	**Qty: 1**
LR015940 .....Front (passive) float sender - LR4	**Qty: 1**
LR015377 .....Front (passive) float sender - Range Rover Sport	**Qty: 1**
LR021911 .....Rear (active) float sender - Range Rover Sport	**Qty: 1**

TOOLS:

IDS with latest IDS-DVD and Calibration File
Land Rover-approved Midtronics Vehicle Power Supply
Refer to 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 DDW to obtain the latest repair time.**

DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.

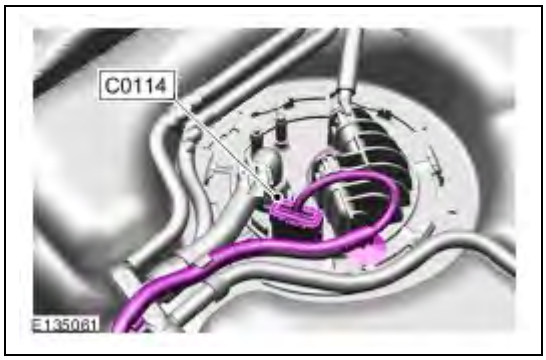
DESCRIPTION	*SRO*	*TIME (HOURS)*	*CONDITION CODE*	*CAUSAL PART*
Fuel gauge inaccurate – diagnostics only	19.90.89.30	0.60	X2	LR021911
Sender units – fuel tank gauge – front and rear– renew	88.25.41	1.20		

Normal Warranty policies and procedures apply

REPAIR PROCEDURE

CHECK FUEL TANK FLANGE / HARNESS CONNECTIONS

1. Refer to Workshop Manual, section 310-01: *Fuel Tank and Lines*, and use a suitable transmission jack to lower the fuel tank only enough to access the top of the fuel tank.
2. Pull the flange / harness connector (C0114) upwards.



3. Turn ignition 'ON'; observe fuel gauge operation.
   - If the fuel gauge drops to '0' (empty), turn ignition 'OFF', remove connector, and verify pin connections.
4. After repairing harness / connector pins, perform steps 2 - 3 again.
5. If concern is verified to be in the flange area and all connections are secure, replace the flange assembly.
6. After replacing flange assembly, perform steps 2- 3 again.
7. If no fault is found, continue to FUEL TANK DIAGNOSIS AND TESTING below.

FUEL TANK DIAGNOSIS AND TESTING

1. Refer to Workshop Manual, section 310-01: *Fuel Tank and Lines*, and perform the appropriate diagnostic and repair procedure(s).

△ **NOTE: Not all derivatives will have the same number of connectors. Fuel tank module / sender components removed from fuel tank for clarity.**

- Backed out pin / wire could be any of the wires on the connector assembly(s); all must be checked.