



TECHNICAL BULLETIN

No: P045
Issue: 1
Date: 22 July 2008

CIRCULATE: TO

Service Mgr
X

Warranty
X

Workshop
X

Body Shop
X

Parts
X

SECTION: 501

RECALL: Rotary Coupler Wiring Fracture

AFFECTED VEHICLE RANGE:

LR3 (LA)	VIN:	5A309377 - 6A376426
	Model Year:	2005 - 2006
Range Rover Sport (LS)	VIN:	6A900290 - 6A939921
	Model Year:	2006

CONDITION SUMMARY:

Situation: Land Rover is initiating a voluntary safety recall on the vehicles in the affected VIN ranges. It is possible that the wires that connect the driver's airbag module to the rotary coupler on LR3 and Range Rover Sport vehicles could fracture. This may lead to an open circuit and the Supplemental Restraints System (SRS) warning light being illuminated on the instrument cluster.

The wiring that connects the rotary coupler to the driver's air bag module may fracture as a result of relative motion between the rotary coupler and the steering wheel hub. This relative motion may be caused by factors such as internal friction within the rotary coupler assembly and friction caused by contact of the steering column cowl against the rotary coupler. Rotary coupler internal friction is caused by distortion of the steering column switch mounting platform as a consequence of mis-alignment of a location point on the steering column assembly.

Action: Under the provisions of this Recall action, a modification to the steering column switchgear will be made. For certain VINs, if upon inspection of the rotary coupler the part number is determined to be YRC500060, a new rubber sleeve will be installed.

PARTS:

QMB501300.....Service Kit Qty: 1

The following table identifies the relevant VIN ranges and parts from the Service Kit required for the modification. Not all parts within the Service Kit are required for all repairs. Please discard any parts not required.

VIN Ranges	Part Description	Qty	*Additional information
LR3: 5A309377 - 5A337235 Range Rover Sport: 6A900290 - 6A902862	Foam Pad Washer Rubber sleeve* M5 x 16mm long screw	2 2 1 1	*The rubber sleeve should <i>only</i> be fitted if the rotary coupler part number is YRC500060 .
LR3: 5A337236 - 6A357762 Range Rover Sport: 6A902863 - 6A919697	Foam Pad Washer M5 x 16mm long screw	2 2 1	
LR3: 6A357763 - 6A376426 Range Rover Sport: 6A919698 - 6A939921	Foam Pad	2	

TOOLS:

Refer to Workshop Manual (GTR) for any special tools (if necessary)

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.



WARRANTY:



NOTE: Always check DDW to verify that the vehicle is affected by this Recall prior to undertaking any repair. DDW will reflect only those vehicles affected and un-repaired.



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.

Warranty claims should be submitted quoting program code **P045**, together with the appropriate Option Code. As Option Codes (**B, C, D, and E**) are used, there is no requirement to enter parts or labor. These are provided for information only. The Option Code for drive in / drive out allowance can only be claimed if the vehicle is brought back into the workshop for this Recall action alone to be undertaken.

VIN Ranges: LR3: 5A309377 - 5A337235
Range Rover Sport: 6A900290 - 6A902862

Program Code	Option Code	Description	SRO	Time (hours)	Part Number	Part Description	Qty	Misc Expenses
P045	B	Inspect rotary coupler; carry out modification	76.74.89/48	0.30	QMB501300	Service Kit	1	-
P045	C	Inspect rotary coupler; carry out modification	76.74.89/48	0.30	QMB501300	Service Kit	1	-
		Drive in / drive out	02.02.02	0.20				

VIN Ranges: LR3: 5A337236 - 6A376426
Range Rover Sport: 6A902863 - 6A939921

Program Code	Option Code	Description	SRO	Time (hours)	Part Number	Part Description	Qty	Misc Expenses
P045	D	Carry out modification	76.74.89.49	0.20	QMB501300	Service Kit	1	-
P045	E	Carry out modification	76.74.89.49	0.20	QMB501300	Service Kit	1	-
		Drive in / drive out	02.02.02	0.20				

Normal warranty policy and procedures apply.



CUSTOMER REIMBURSEMENT PROCESS:

If a customer indicates that they have previously paid for a replacement of the rotary coupler for this defect (vehicle out of warranty), a copy of the repair invoice must be produced as proof of the repair. The Retailer must directly reimburse the customer and a claim for recovery of this cost should be made using the related damage procedure.

Claims should be submitted quoting Program Code **P045** and by clicking the 'Related Damage' radio button on the claim submission screen. The claim should be submitted using Option Code 'X' as detailed below and entering the cost to be reimbursed against the Sundry Code 'other'. All costs should be entered in local currency.

Program Code	Option Code	Description	SRO	Time (Hours)	Sundry Item Code	Miscellaneous Expense (\$)
P045	X	Re-imburement to owner	N/A	N/A	Other	Retailer Entered Value

A copy of the invoice must be appended to the repair order for Warranty Audit purposes and Warranty Specialist review.

A brief comment should be entered in the 'Technician Comments' field on the claim to itemize and explain the charges.

Only vehicles eligible for Recall Action P045 are included in this process. Only one claim per vehicle for related damages will be accepted.

REPAIR PROCEDURE:

VIN RANGES: **LR3: 5A309377 - 5A337235**
RANGE ROVER SPORT: 6A900290 - 6A902862

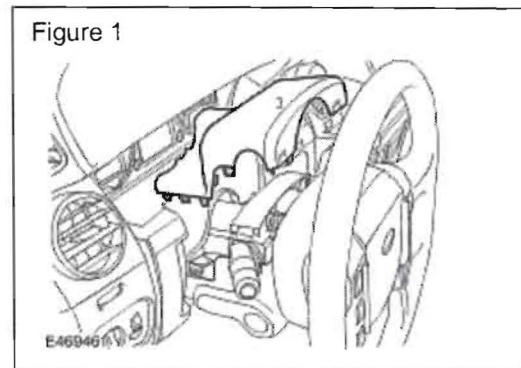
STEERING COLUMN SWITCHGEAR MODIFICATION (ALL FIGURES SHOW LR3; RANGE ROVER SPORT SIMILAR)

1. Remove ignition key.
2. Fully extend the steering column for access.

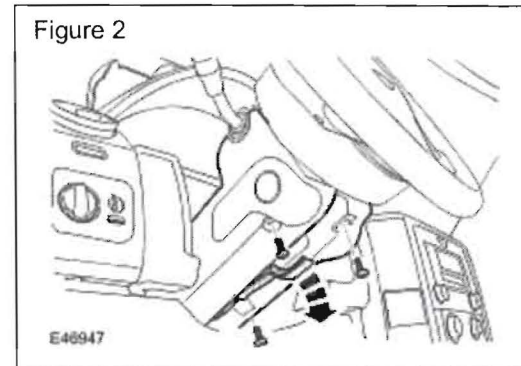


WARNING: To avoid accidental deployment the back-up power supply must be depleted before beginning any work on the SRS system or its components. Failure to follow this instruction may result in personal injury.

3. Disconnect negative and positive battery cables.
4. Wait two minutes for the SRS power circuit to discharge.
5. Release the six clips to remove the steering column upper shroud. (Figure 1)



6. Remove the three Torx screws to remove the steering column lower shroud. (Figure 2)
7. Insert ignition key and turn to position 1.



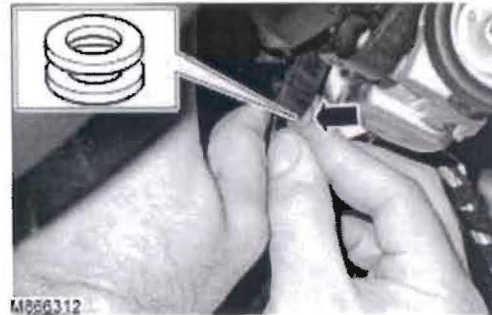
NOTE: The steering wheel will need to be rotated to gain access.

8. Rotate steering wheel for access as necessary.
9. Remove and discard the multi-function switch assembly's fourth fixing M5 x 14mm long screw (FYP500250). (Figure 3)




10. Insert two washers (**WC105002**) between the multi-function switch assembly fourth fixing point and column lock. (Figure 4)

Figure 4



11. Insert **new** M5 x 16mm long screw (**W504696 - S424**) and tighten to **2N-m (1.5 lbf-ft)**. (Figure 5)

 **NOTE: The steering wheel will need to be rotated to gain access.**

12. Rotate steering wheel for access as necessary.

Figure 5



13. Attach one foam pad (**QZL500010**) to the front face of the direction indicator switch. (Figure 6)
14. Attach one foam pad (**QZL500010**) to the front face of the wiper switch.

Figure 6





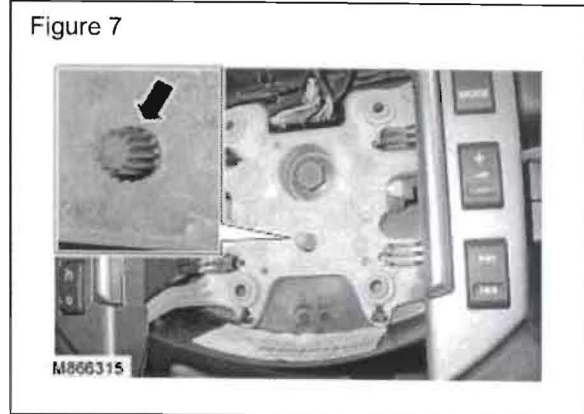
INSPECT ROTARY COUPLER PART NUMBER AND REPLACE DRIVE PEG SLEEVE (IF NECESSARY)



NOTE: Global Technical Reference (GTR) lookup sequence is as follows:
GTR Home > NAS > Model > Service Information > Model Year > Workshop Manual > 5: Body and Paint > 501-20B: Supplemental Restraint System

1. Refer to Workshop Manual (GTR) section 501-20B: Supplemental Restraint System (76.40.01) to remove the driver airbag module.
2. Rotate steering wheel to verify rotary coupler part number:
 - If rotary coupler part number **YRC500060** is fitted, replace the cylindrical drive peg sleeve with the ribbed sleeve provided in the kit, ensuring the sleeve is fully seated. (Figure 7)
 - If rotary coupler part number **YRC500060** is *not* fitted, continue to step 3
3. Refer to Workshop Manual (GTR) section 501-20B: Supplemental Restraint System (76.40.01) to install the driver's airbag module.

Figure 7



INSTALL LOWER AND UPPER STEERING COLUMN SHROUDS

1. Remove ignition key.
2. Install the steering column lower shroud.
3. Install the steering column upper shroud.
4. Connect positive and negative battery cables.



REPAIR PROCEDURE:

VIN RANGES: **LR3: 5A337236 - 6A357762**
 RANGE ROVER SPORT: 6A902863 - 6A919697

STEERING COLUMN SWITCHGEAR MODIFICATION (ALL FIGURES SHOW LR3; RANGE ROVER SPORT SIMILAR)

1. Remove ignition key.
2. Fully extend the steering column for access.

⚠ WARNING: To avoid accidental deployment the back-up power supply must be depleted before beginning any work on the SRS system or its components. Failure to follow this instruction may result in personal injury.

3. Disconnect negative and positive battery cables.
4. Wait two minutes for the SRS power circuit to discharge.
5. Release the six clips to remove the steering column upper shroud. (Figure 8)
6. Remove the three Torx screws to remove the steering column lower shroud. (Figure 9)
7. Insert ignition key and turn to position 1.

△ NOTE: The steering wheel will need to be rotated to gain access.

8. Rotate steering wheel for access as necessary.
9. Remove and discard the multi-function switch assembly's fourth fixing M5 x 14mm long screw (FYP500250). (Figure 10)

Figure 8

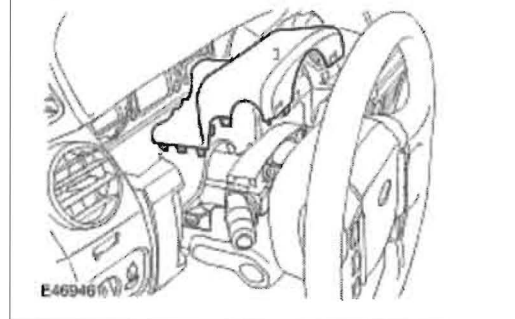


Figure 9

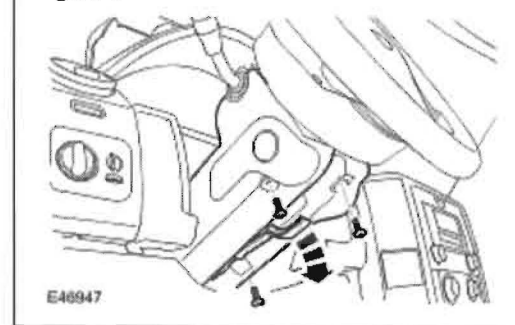
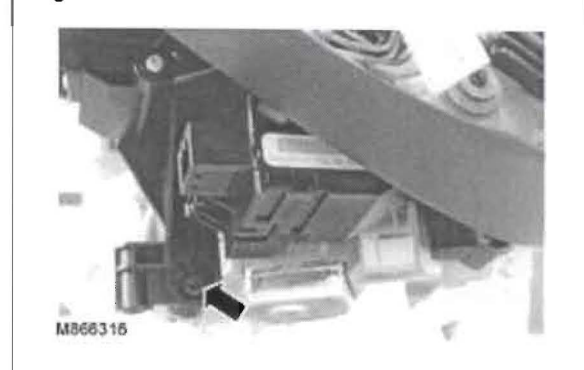
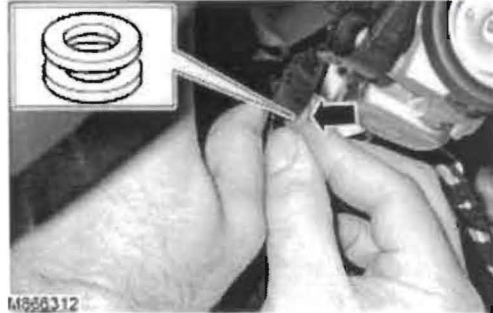


Figure 10



10. Insert two washers (**WC105002**) between the multi-function switch assembly fourth fixing point and column lock. (Figure 11)

Figure 11



11. Insert **new** M5 x 16mm long screw (**W504696 - S424**) and tighten to **2N-m (1.5 lbf-ft)**. (Figure 12)



NOTE: The steering wheel will need to be rotated to gain access.

12. Rotate steering wheel for access as necessary.

Figure 12



13. Attach one foam pad (**QZL500010**) to the front face of the direction indicator switch. (Figure 13)
14. Attach one foam pad (**QZL500010**) to the front face of the wiper switch.
15. Remove ignition key.
16. Install the steering column lower shroud.
17. Install the steering column upper shroud.
18. Connect positive and negative battery cables.

Figure 13



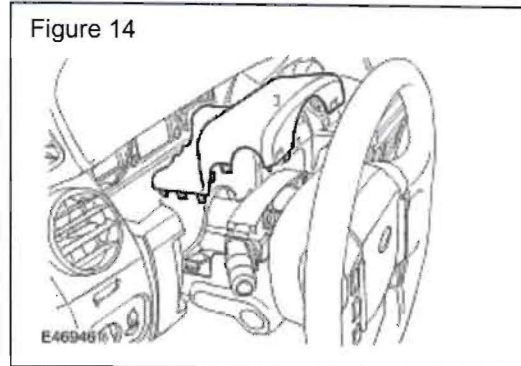
REPAIR PROCEDURE:

VIN RANGES: **LR3: 6A357763 - 6A376426**
 RANGE ROVER SPORT: 6A919698 - 6A939921


STEERING COLUMN SWITCHGEAR MODIFICATION (ALL FIGURES SHOW LR3; RANGE ROVER SPORT SIMILAR)

1. Fully extend the steering column for access.
2. Release the six clips to remove the steering column upper shroud. (Figure 14)

Figure 14

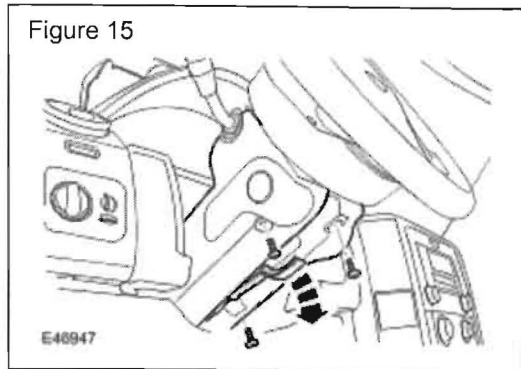


3. Remove the three Torx screws to remove the steering column lower shroud. (Figure 15)
4. Insert ignition key and turn to position 1.

 **NOTE: The steering wheel will need to be rotated to gain access.**

5. Rotate steering wheel for access as necessary.

Figure 15



6. Attach one foam pad (**QZL500010**) to the front face of the direction indicator switch. (Figure 16)
7. Attach one foam pad (**QZL500010**) to the front face of the wiper switch.
8. Install the steering column lower shroud.
9. Install the steering column upper shroud.

Figure 16

