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Steering rack

Applicable to

All Rolls-Royce Silver Shadow II, Camargue and Bentley T2 series cars.

All Rolls-Royce Silver Spirit, Silver Spur, Corniche.

All Bentley Mulsanne, Eight, Turbo R and Continental cars prior to the following vehicle identification numbers (VIN).

Rolls-Royce

Silver Spirit

* SCAZS00A3KCH24514 * excluding 23213

Silver Spur

* SCAZN02A5KCH24516 * excluding 23210

Corniche

* SCAZD02A4KCX24638 * excluding 23246

Bentley

Mulsanne

* SCBZS00A0KCH24515 * excluding 23216

Eight

* SCBZE00A8JCX24513 *

Turbo R

* SCBZR04A0KCH24519 * excluding 23211, 23212, 23214, 23215, 23217, 23218, 23219.

Continental

* SCBZD02A1KCX24835 * excluding 23247

Introduction

This Product Support Information Sheet has been issued to inform Rolls-Royce and Bentley Parts and Service personnel that a new steering rack has been introduced for 1989 model years cars.

Description

For pre 1989 model year cars listed 'applicable to' above, it is possible to fit the new steering rack providing the lower steering column is also changed and the fixing kit used.

Procedure

- 1.) Remove the existing rack and assembly lower column, referring to Chapter N of the Workshop Manual.
- 2.) Connect the new lower column to the upper column, by means of the fitted bolts provided in the kit; the upper bolt having a washer under both its head and nut, the lower bolt having a washer only under the nut.
- 3.) Place all screws and washers provided for the adapter blocks in position, in preparation for fitting the rack. Fit the adapter blocks loosely to the sub-frame of the car; refer to figure N3-1



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N3-1 Modified arrangement - adaptor blocks to sub-frame N3-1 for the modified arrangement.

- 4.) Ensure that the rack is positioned centrally and fit the centralizing tool (RH 12123).
- 5.) Bring the rack up to the mounts and support it on a few threads of the setscrews.
- 6.) Centralize the steering wheel and slot the steering rack spline into the lower column, ensuring that the flat of the spline is in line with the pinch bolt of the lower column.
- 7.) Torque tighten all the bolts securing the rack to the sub-frame, using a special spanner (RH 12128) and torque wrench extensions (RH 12124 and RH 12125) where necessary. Refer to Torque settings.
- 8.) Adjust the lower column universal joint to the correct setting, refer to Workshop Manual.
- 9.) Connect all ancillaries and adjust the steering wheel position if necessary.

Note:

A clearance of 9mm (0.350 in) minimum must exist between the top of the track rod ends and the underside of the engine sump. Use packing piece (UR 14588) on the front engine mount to achieve this clearance when necessary. If a packing piece is used, a check must be carried out to ensure that there is adequate clearance.

Torque settings

Adapter fixing bolts to steering rack and sub-frame 57 Nm (5,8 kgf m - 6,2 kgf m - 42 lbf ft - 45 lbf ft).

Assembly lower column to column fitted bolts 21Nm-24,4 Nm (2,2 kgf m - 2,4 kgf m - 16 lbf ft - 18 lbf ft).

Parts affected

Displaced part number	Description	New part number	Quantity
UR 20072	Right-hand steering rack	UR 70654	
UR 20073	Left-hand steering rack	UR 70655	
UR 22074	Right-hand steering rack	UR 70654	1
UR 22075	Left-hand steering rack	UR 70655	1
UR 26542	Right-hand steering rack	UR 70654	
UR 26543	Left-hand steering rack	UR 70655	
UR 27336	Right-hand steering rack	UR 70708	1
UR 27337	Left-hand steering rack	UR 70707	1

Note:

When replacing an earlier steering rack with the later type, a new lower steering column PD PD 10147 and fitting kit RH 3034 will also be required, parts contained in RH 3034 are also available for service replacement purposes.

RH 3034 kit

(refer to table: 4736n3e_0002)

Service tools

New part number	Description	Old part number
RH 12122	Plunge joint setting tool	
RH 12123	Centralizing tool	RH 9119
RH 12128	Spanner-Rack mounting bolt	

Defect and repair code manual

Number	Description	Time
40180000S	Fit later type steering rack and lower column assembly	2.6 hours

Andy Webb