

Rolls-Royce and Bentley Motor Cars

SZ Vehicles - 20,000-Series - 1987 Model Year Onwards

Also applies to previous models fitted with Bosch K-Jetronic fuel injection

Fuel Pump Noise Reduction Kit

Applicable to

All Rolls-Royce and Bentley motor cars from vehicle identification numbers (VIN) *SCBZS0T03HCX20001*

Introduction

With the introduction of 1987 model year motor cars, a revised fuel system comprising of an intank pre- pump and roller cell main pump was utilised on all naturally aspirated and turbocharged motor cars.

Under certain conditions, there is a possibility of noise being transmitted into the interior of the motor car due to cavitation of the main fuel pump.

A service kit (RH 3009) is now available for fitment to motor cars suffering with fuel system noise. The kit must only be fitted after prior authorisation from a Rolls-Royce Motor Cars Area Service Manager or Zone Engineer.

Description

The service kit (RH 3009) deletes the fuel system pre- pump and remounts the fuel pump/accumulator assembly. It is fitted as described below.

Procedure

Drain the fuel tank and remove the intank pre-pump, plus the main fuel pump and accumulator assembly as laid out in the relevant Workshop Manual. Remove all the existing fuel pump mountings and brackets from the floorpan, and remove the main fuel pump and accumulator assembly from its original mounting place.

Assemble the intank filter and tank outlet pipe as shown in figure K14-1 on Page 2

K14-1 Intank filter and tank outlet pipe K14-1, along with the fuel pipe and armaflex sleeve then insert the assembly into the fuel tank as shown in figure K14-2. Lock the assembly into place using the pre-pump locking ring. Remove the fuel pump/accumulator from its carrier plate.

The fuel pump and accumulator should then be fitted to the new fuel pump/accumulator carrier as shown in figure K14-1 on Page 3

K14-3 Fuel pump and accumulator to new carrier K14-3, noting that the fuel pump should be covered in the 3 in diameter armaflex sleeving.

Bolt the fuel pump mounting onto the floorpan as shown in figure K14-2 on Page 3

K14-2 Intank filter assembly to fuel tank K14-2 (in place of the original rear mounts) and attach the fuel pump/accumulator carrier to the mount (see fig. K14-4).

Make sure all fuel pipes are connected and secured. Take the earth lead connected to the '-' negative terminal on the fuel pump and connect it to the floor/fuel pump mounting as shown in figure K14-4 on Page 4

K14-4 Fuel pump, accumulator, and resistor correctly mounted K14-4.

The resistor should be mounted in a suitable position on the heelboard (see fig. K14-4 on Page 4)

K14-4 Fuel pump, accumulator, and resistor correctly mounted K14-4) noting that care must be taken in ensuring that no wires are in the area to be drilled.

To mount the resistor, drill two 2,5 mm holes in the heelboard using the resistor isolator as a template. Screw the isolator to the heelboard and mount the resistor to the isolator with the screws provided. Tape back the electrical connections to the pre-pump and fit the '+' positive connection originally connected to the main fuel pump to the resistor.

Connect the resistor to the fuel pump with the link loom provided.

Note:

Do not fit the resistor to turbocharged motor cars.

Refill the fuel tank and ensure that there are no fuel leaks. If no leaks are present, remove the motor car from the ramp and road test.

Defect and Repair code manual

Defect code	Repair code	Time
37 10 03 00 45	37 10 03 00 S	2.3 hours

Parts required

RH 3009 fuel pump noise reduction kit - see page 4

Figure K14-1

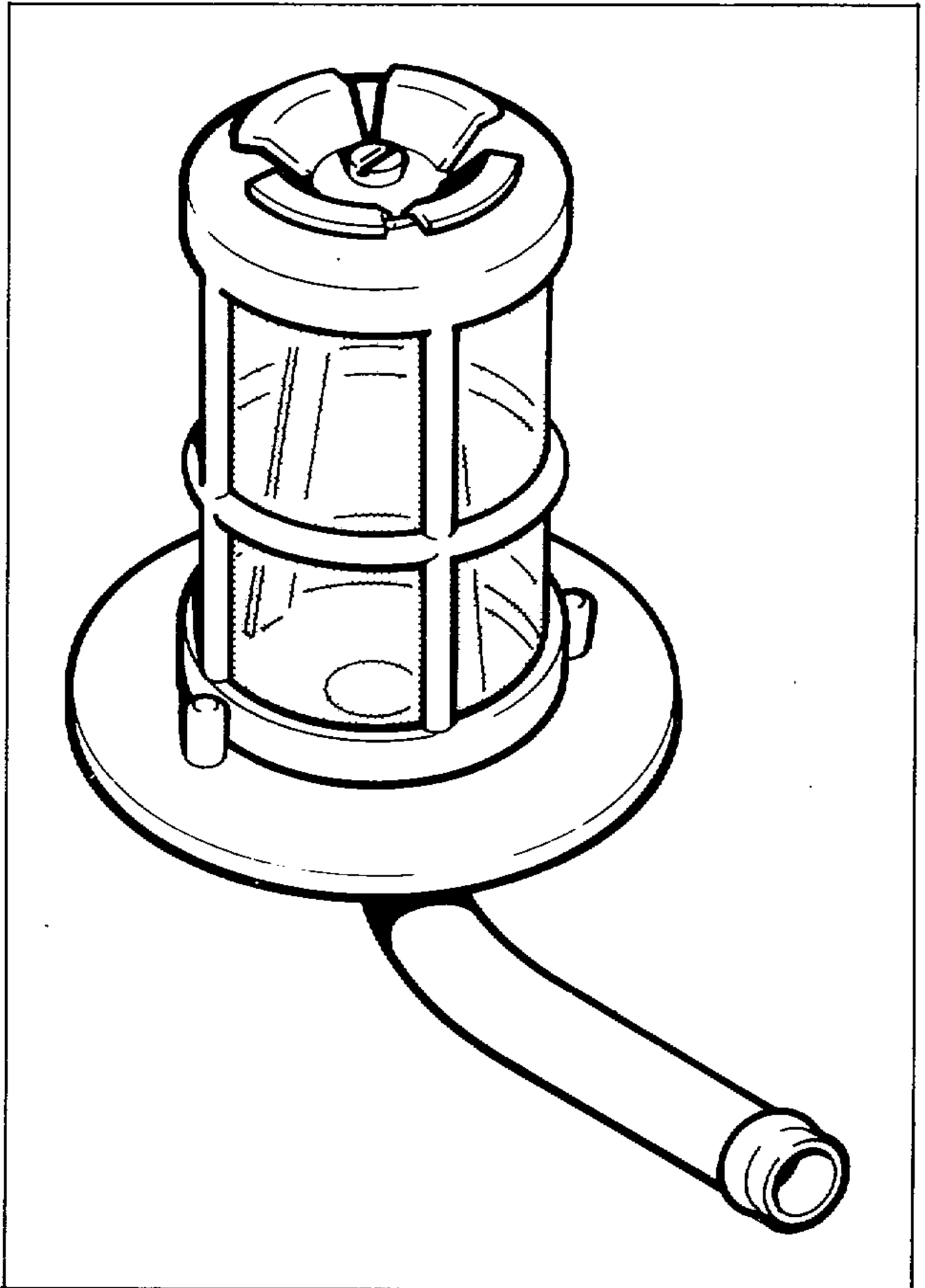


Figure K14-2

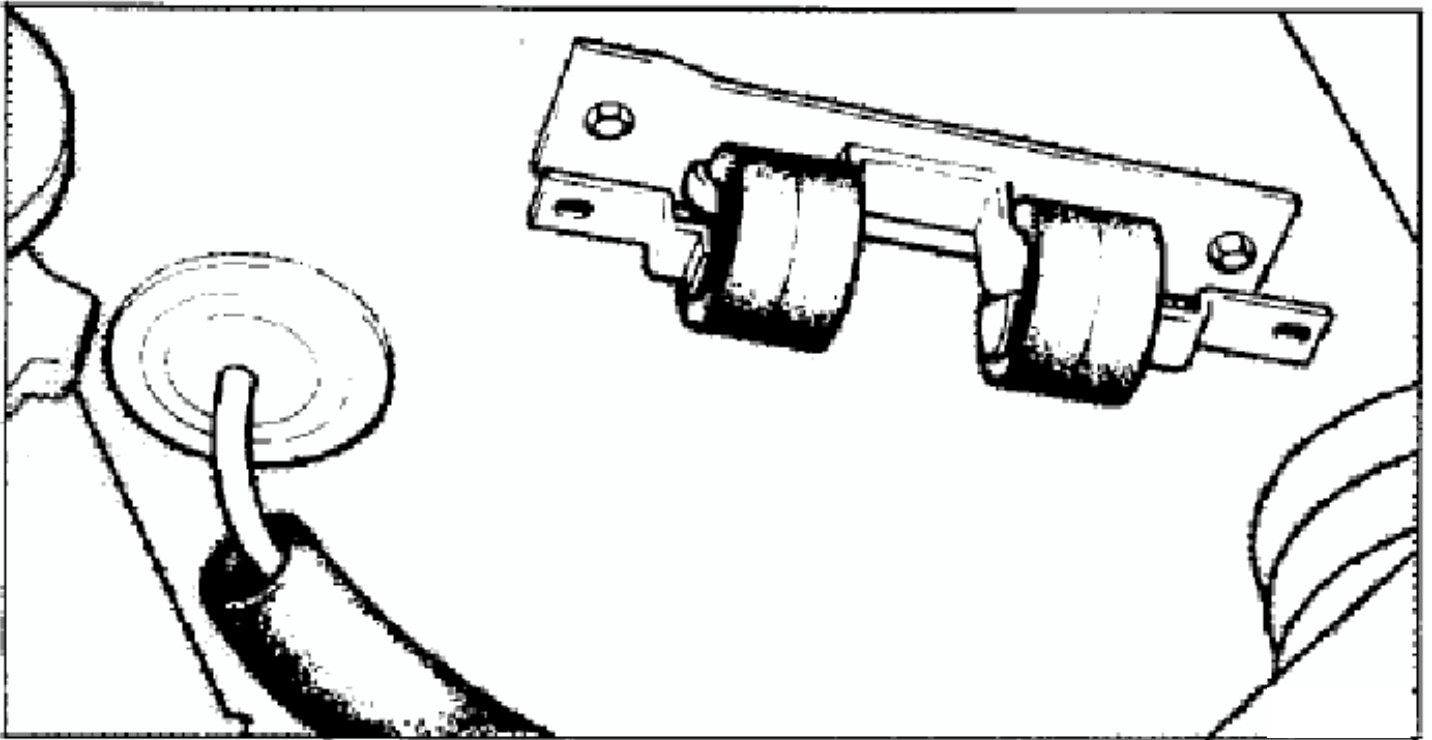
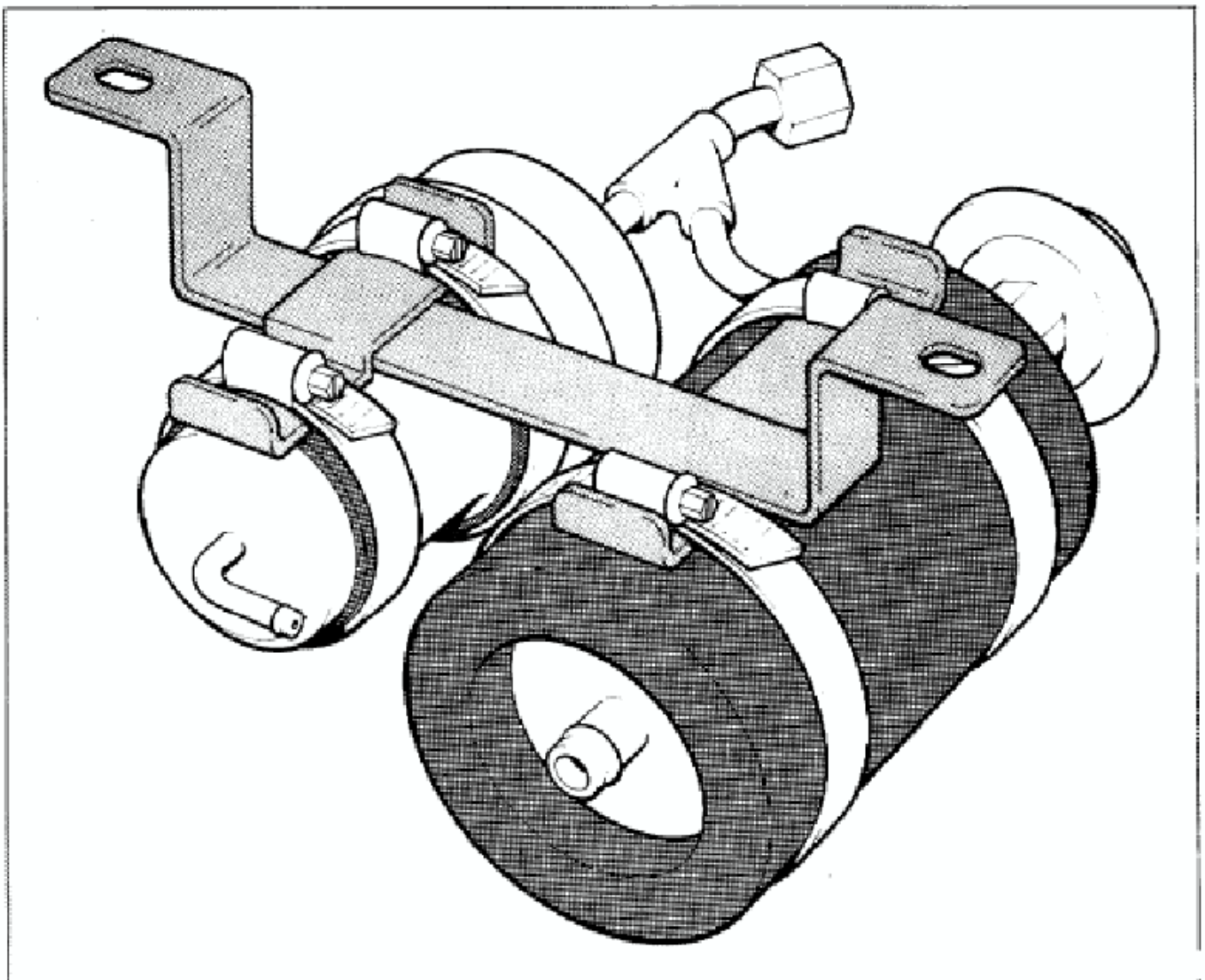


Figure K14-3



RH 3009 Fuel Pump Noise Reduction Kit

Part number	Description	Quantity
RH 12166	Assembly link loom	1
RH 12149	Assembly resistor 2 ohms	1
RH 12146	Pipe-fuel	1

RH 12156	Assembly bracket	2
RH 12159	Assembly saddle bracket	1
UR 21840	Filter fuel tank	1
SPM 1981	Clip	2
SPM 1950	Clip	2
SPM 1952	Clip	2
UA 102/Z	Bolt	2
UA 1251/ZP	Washer	4
UA 103/Z	Bolt	2
UA 301/ZP	Nut	2
CD 6572	Mounting rubber	2
UE 70476	Sealing ring	1
RH 12165	Filter bracket	1
UE 71700	Strip	1
UE 71701	Strip	1

Figure K14-4

