

**Subject**

**Thump from Rear of Vehicle**

**Model: S-TYPE**

**Year: 2002.5 to 2004**

**VIN M45255 to N30694**

**Section: 204-00**

**Suspension System**

**Summary**

This Technical Bulletin has been issued to address customer concerns of:

- On manual vehicles, a thump from the rear of the vehicle when changing gear.
- On automatic vehicles, thump from the rear when accelerating after a period of deceleration.

**This version 2 has been issued for the addition of a final VIN and is a replacement for Technical Bulletin S204-11. Please destroy all copies of S204-11 and replace it with this Technical Bulletin S204-v2.**

**Action**

Should a customer express concern of the issues described in the summary, two inserts are to be installed into each bushing, in the rear drive axle/differential unit to subframe mounting bushing voids, to restrict bush movement. Follow the workshop procedure outlined below.

**Workshop Procedure**

- 1 Raise vehicle on 'four-post' ramp.

Working on the left-side rear drive axle/differential mounting bushing:

- 2 Place a suitable protective material to the front face of the spare wheel well behind the left-side bushing, to prevent damage to the spare wheel well whilst it is being levered against.
- 3 Using a suitable adhesive tape, secure the protective material into position (see Fig. 1).



Fig. 1

**CAUTION: DO NOT USE ANY OTHER LUBRICANT AS THIS CAN CAUSE DAMAGE TO THE RUBBER BUSHING MATERIAL.**

- 4 Lubricate left bushing upper void with suitable tire lubricant. If this is not available, water can be used.

- 5 Position insert to left bushing upper void (see Fig. 2).

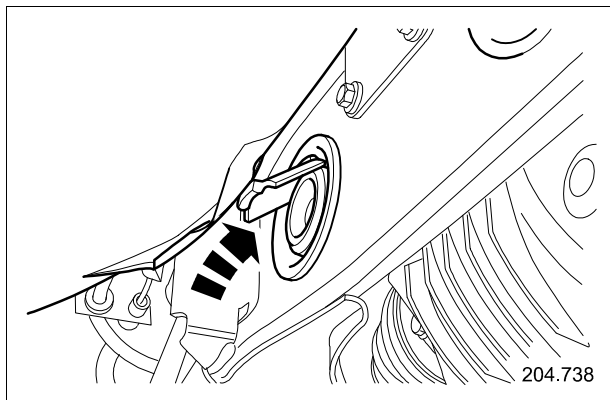


Fig. 2

- 6 Using a suitable tool, force insert part way into left-side bushing upper void (see Fig. 3).

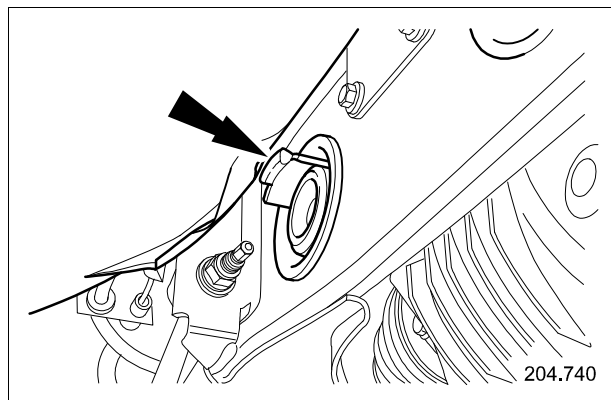


Fig. 3

- 7 Using a suitable lever positioned against the front face of the spare wheel well protection, lever insert fully into position (see Fig. 4).

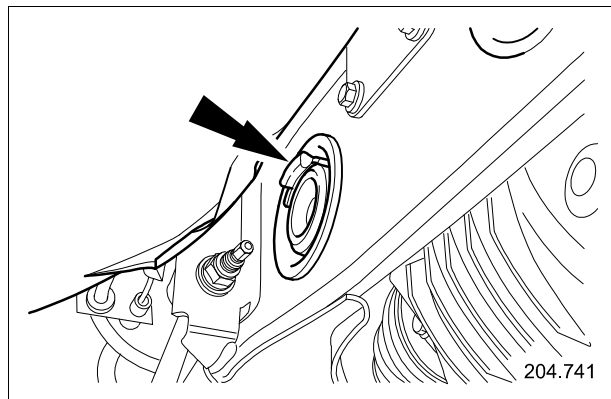


Fig. 4

- 8 Place a suitable jacking device under the rear drive axle/differential.  
 9 Place a suitable block of wood on the jack.  
 10 Operate the jack to raise the rear drive axle/differential and open up the bushing lower void.

**Note:** Jack under the center of the rear drive axle/differential to install the left-side rear bushing lower void insert. Jack under the right-hand side lug to install the right-side rear bushing lower void insert (see Fig. 5).

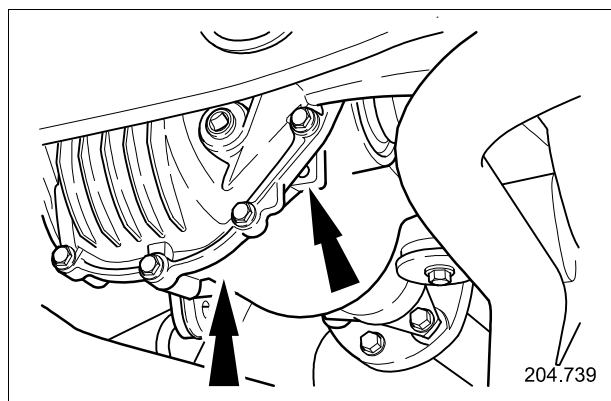


Fig. 5

**CAUTION: DO NOT USE ANY OTHER LUBRICANT AS THIS CAN CAUSE DAMAGE TO THE RUBBER BUSHING MATERIAL.**

- 11 Lubricate left bushing lower void with suitable tire lubricant. If this is not available, water can be used.
- 12 Position insert to left-side bushing lower void.
- 13 Using a suitable tool, force insert part way into left-side bushing lower void.
- 14 Using a suitable lever positioned against the front face of the spare wheel well protection, lever insert fully into position.
- 15 Lower jack.
- 16 Remove protective material, and transfer to the front face of the spare wheel well behind the right-side bushing.
- 17 Carry out steps 3 to 15 to install inserts into the rear drive axle right-side bushing voids.
- 18 Remove block of wood from jack and place aside.
- 19 Remove jacking device.
- 20 Remove adhesive tape and protective material.
- 21 Lower vehicle on ramp.

**Parts Information**

The following parts must be ordered via Jaguar Cars Parts Operations (or through NSC/Importer).

Description	Part Number	Quantity
Rear drive axle/differential rear mounting bushing void inserts	XR8 51446	4

**Warranty Information**

Description	SRO	Labor Time Allowance	Causal Part
Rear drive axle/differential rear mounting bushing service fix	64 91 15	0.3 Hours	XR8 42787