

VOLVO CARS SERVICE AND PARTS BUSINESS	
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# Technical Journal

**TITLE:**  
**Squeaking noise from subframe bushings / Reinforcement plate**

<b>REF NO:</b> TJ 17644	<b>ISSUING DEPARTMENT:</b> Technical Service	<b>CAR MARKET:</b> United States and Canada
<b>PARTNER:</b> 3 US 7510 Volvo Cars North America		<b>ISSUE DATE:</b> YEAR MONTH DAY 2013 07 15
<b>FUNC GROUP:</b> 2182	<b>FUNC DESC:</b> Rubber cushion	Page 1 of 6

“Right first time in Time”

**Attachment**

File Name	File Size
TJ 17644 -2.jpg	0.0935 MB
TJ 17644 -4.jpg	0.0679 MB
TJ17644 -3.jpg	0.0571 MB

**Vehicle Type**

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2007-2014		0000001-0177939	200620-201326
134							2011-2014		0000001-0276466	201020-201326
135							2008-2014		0000001-0285952	200720-201326
136							2008-2014		0000001-0177780	200720-201326
156							2010-2014		0000001-0510437	200835-201326

**CSC Customer Symptom Codes**

Code	Description
WV	Suspension/Clicking/clonking noise/At start/stop
WY	Suspension/Clicking/clonking noise/Unsure when/at all times
X1	Suspension/Unusual noise

**DTC Diagnostic Trouble Codes**

Rows beginning with \* are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.



## Text

**\*NOTE! THIS DOCUMENT SUPERSEDES THE PREVIOUS RETAILER TECHNICAL JOURNAL 17644 DATED 08-22-2012.**

**\*There is a new repair method for this concern. Replacement of the subframe bushings is no longer necessary.**

## DESCRIPTION:

A squeaking noise could be heard from the front suspension, especially when turning or driving over a speed bump.

The noise usually comes from the rear bushings in the front subframe due to axial travel resulting in a rubbing or squeaking noise between the reinforcement plate and the bushings' front and rear axial movement limiters.

Once the rubber material on the bushing is worn out, the underneath plastic material may cause a soft knocking noise instead. The contact points are illustrated in the attached pictures: TJ 17644 -1.jpg; TJ 17644 -2.jpg

## PRODUCT MODIFICATION:

\* New reinforcement plates were introduced in production from 2013 week 26.

## MATERIAL RETURN:

None

## VEHICLE REPORT:

\* Yes, if the noise continues when using the new reinforcement plates.

\* Use concern area "Vehicle Report", sub concern area "Support not Needed" and Function group 2182

## \* SERVICE:

Note: First check if the squeaking noise could be caused by other factors, such as the front anti-roll bar bushings (TJ 23109).

If necessary, use Chassis Ears to locate and/or verify the source of the noise.

If this customer's complaint is verified, replace both right and left side reinforcement plates, refer to attached picture TJ 17644 -4.jpg.

Torque specifications can be found in the attached picture TJ17644 -3.jpg

## Parts:

Reinforcement plate, Left side: PN 31391780

Reinforcement plate, Right side: PN 31391781



**VOLVO STANDARD TIMES GUIDE (VSTG) INFO:**

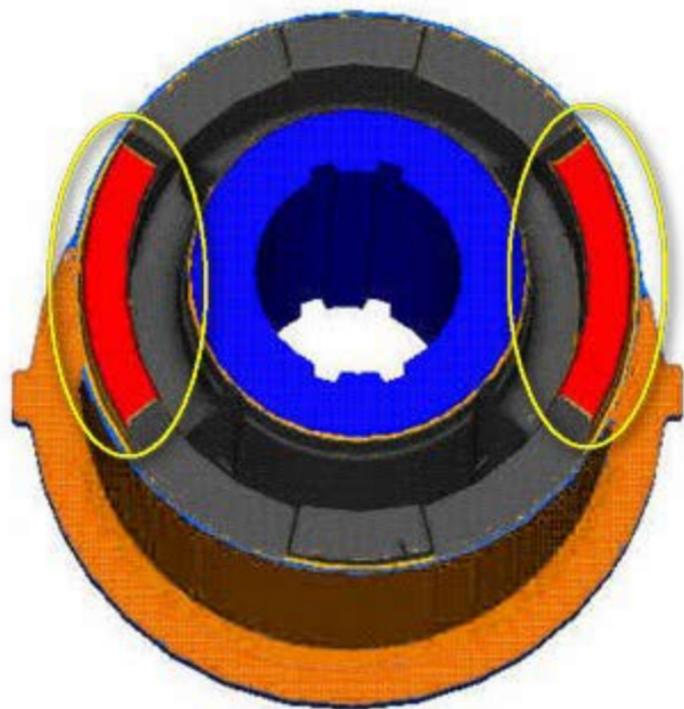
99521-2 Chassis kit remove/install (only if Chassis Ears are used in the fault tracing) -	0.4 hs
98503-2 Reinforcement consoles subframe 2 sides replace acc. to TJ 17644	0.4hrs

**To view TJ attachments continue to next page. This TJ has 3 attachments.**

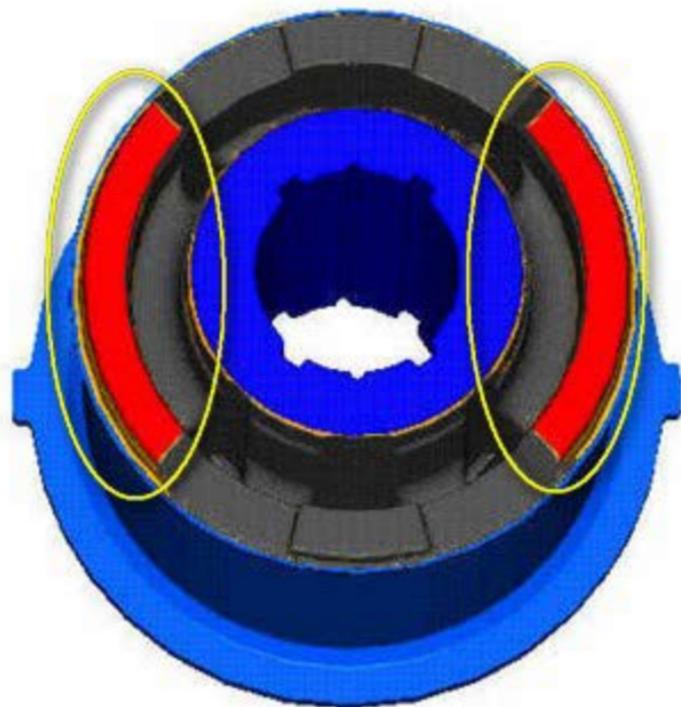
TJ 17644

## CONTACT POINTS

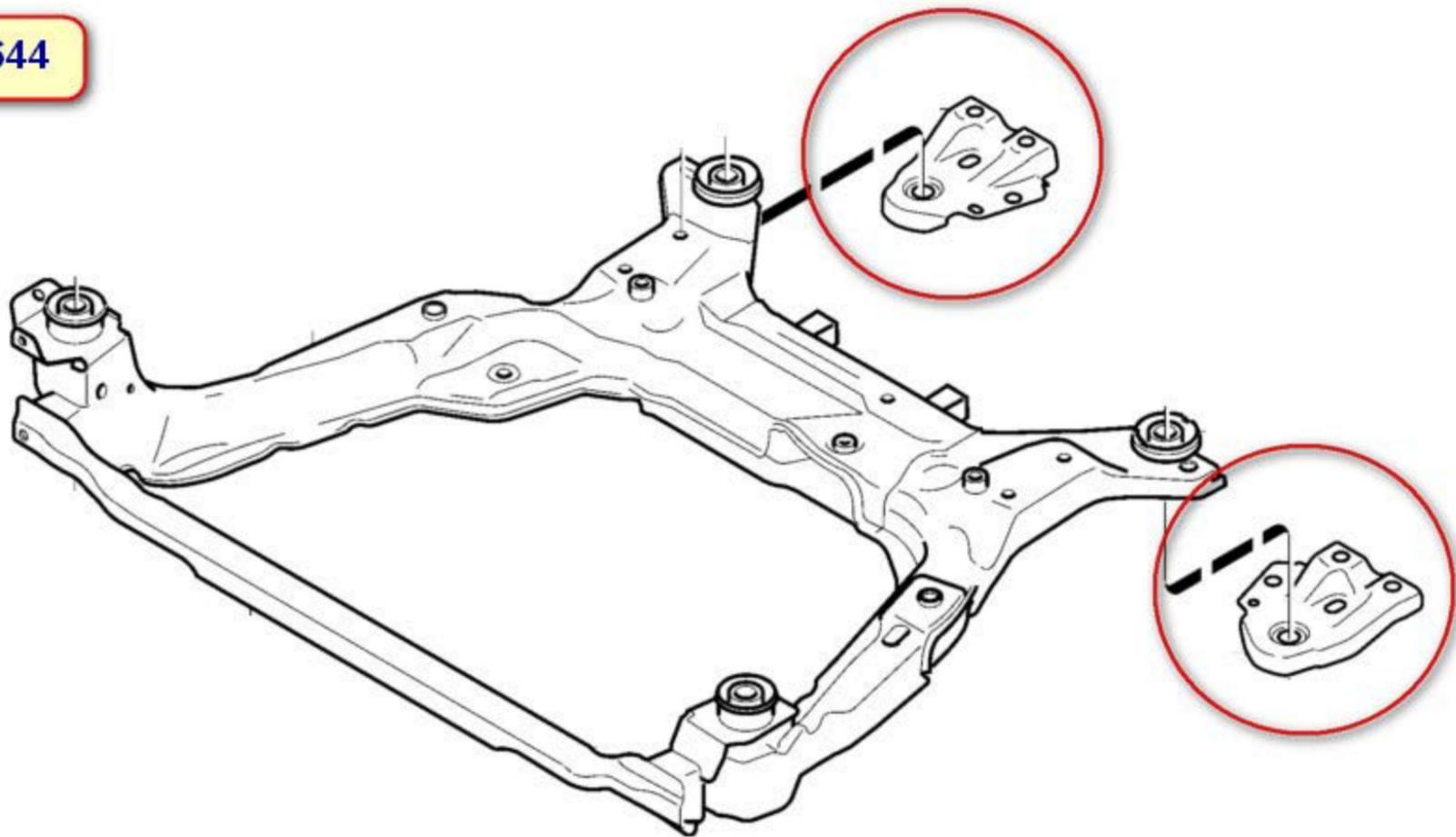
ORANGE BUSHING

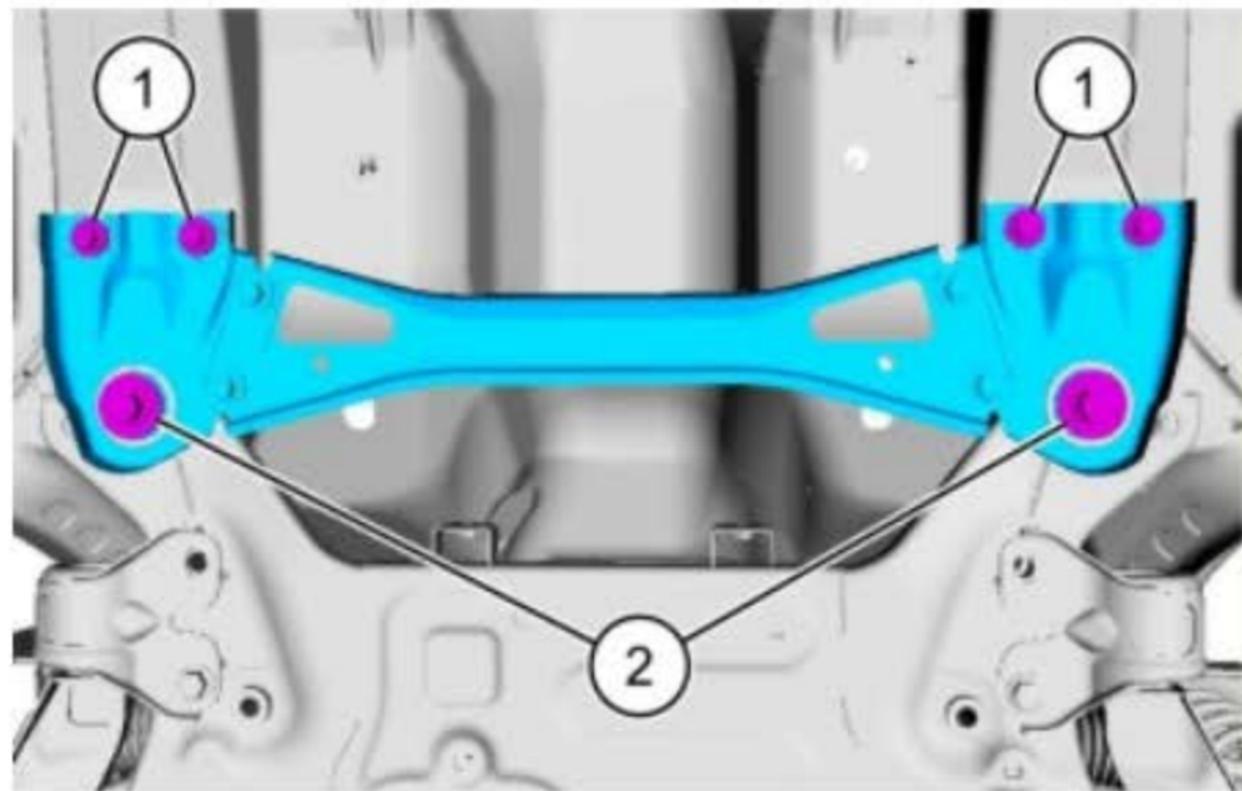


BLUE BUSHING



TJ 17644





1. **Torque:** M8, 24 Nm
2. **Torque: Subframe to chassis (Rear screws)**
  - Stage 1: 150 Nm
  - Stage 2: 90 °