

TECHNICAL BULLETIN  
JTB00349v2  
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**This reissue replaces all previous versions. Please destroy all previous versions. This bulletin supersedes TSB JTB00349/2014 dated 07 APR 2014, which should either be destroyed or clearly marked to show it is no longer valid (e.g. with a line across the page). Only refer to the electronic version of this Technical Bulletin in TOPIX.**

Changes are highlighted in gray

**SECTION: 303-12C**

5.0L Supercharger Noise

**AFFECTED VEHICLE RANGE:**

**XK Range (X150)**

**Model Year:** 2010-2014  
**VIN:** B32753 Onwards

**F-TYPE (X152)**

**Model Year:** 2014 Onwards  
**VIN:** K00001 Onwards

**XF (X250)**

**Model Year:** 2010-2014  
**VIN:** R47154 Onwards

**XJ Range (X351)**

**Model Year:** 2010-2014  
**VIN:** V00001 Onwards

**MARKETS:**

All

**CONDITION SUMMARY:**

**Situation:**

A Customer may report a concern of a loud clattering/rattle/knocking type noise from the engine. Investigation reveals the noise is being emitted from the supercharger.

**This version has been issued for a change to the Service Instruction and Parts Required.**

**Cause:**

The torsional isolator and or the torsional isolator spring support shaft are wearing causing excessive backlash in the supercharger drive.

**Suggested Customer Concern Code N11.**

**Action:** Should a customer express concern, follow the Service Instruction outlined below.

**PARTS:**

C2D38554	Supercharger Spring Isolator Kit (Denso As Required)	Quantity: 1
C2D38553	Supercharger Spring Isolator Kit (Bosch As Required)	Quantity: 1
AJ811576	Gasket - Right	Quantity: 1
AJ811590	Gasket - Left	Quantity: 1

**WARRANTY:**

Vehicle Model	Model Years	VIN Range	C2D38554 (Denso)	C2D38553 (Bosch)
XJ (X351)	2010 to 2013	V00001 to V39426	Yes	-

Vehicle Model	Model Years	VIN Range	C2D38554 (Denso)	C2D38553 (Bosch)
XJ (X351)	2014 onwards	V39427 onwards	-	Yes
XF (X250)	2010 to 2013	R47154 to S61361	Yes	-
XF (X250)	2014 onwards	S61362	-	Yes
XK (X150)	2010 onwards	B32753 onwards	Yes	-
F-Type (X152)	2014 onwards	K00001	-	Yes



**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 TOPIx to obtain the latest repair time.**



**NOTE: DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.**

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
F-Type 5.0L SC	<b>18.50.69</b>	3.7	42	C2D38553
XK 5.0L SC	<b>18.50.69</b>	4.3	42	C2D38553
XF 5.0L SC (Up to VIN 2012S61361)	<b>18.50.69</b>	5.2	42	C2D38553
XF 5.0L SC (VIN 2013S61362 Onwards)	<b>18.50.69</b>	4.7	42	C2D38553
XJ 5.0L SC (Up to VIN 2012V39426)	<b>18.50.69</b>	5.2	42	C2D38553
XJ 5.0L SC (VIN 2013V39427 Onwards)	<b>18.50.69</b>	4.7	42	C2D38553



**NOTE: Normal Warranty procedures apply.**

### **SERVICE INSTRUCTION:**



**NOTE: See the table above for the part numbers that apply to affected vehicle lines.**

**1** Remove the supercharger drive belt (see TOPIx Workshop Manual Section 303-05 Supercharger Belt) and rotate the supercharger pulley by hand.

**2** Use the supercharger spring isolator kit: When there is a clunk or knocking noise from the supercharger or if there is significant free play when turning the pulley before the rotors start to turn (see Workshop Manual, Section 303-12, Supercharger Spring Isolator).

**3** Refer to the symptoms in items 1 to 3 below – if any of these are present install a new supercharger. **This must be done as a separate Warranty Claim.**

1. The pulley does not rotate freely – for example if it sticks, if it is difficult to move, or if roughness can be felt in the bearing during rotation.
2. The blades/rotors are damaged. Please be advised light rotor contact will result in a polished appearance this is normal and does not indicate damage to the rotors.
3. The customer reported an excessive whine noise from the supercharger.