

SKF Technical Bulletin

VKMA-C 98109 – Fitting instructions



SUBARU Forester, Impreza, Legacy, Outback 1.6, 2.0, 2.5



Ensure proper clearance between belt and belt guide



OE Nb: Timing belt: 13028-AA181, 13028-AA230, 13028-AA231
Timing tensioner: 13033-AA040, 13033AA050



Fitting Instructions

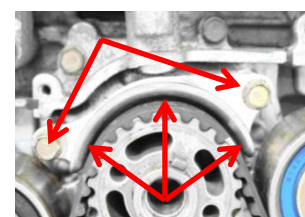
Due to the unique design of the Subaru engine timing belt system, special care has to be noted on the Timing belt guide after the replacement of the Timing belt:

- ✓ Adjust OE recommended clearance **1,0 ± 0,5 mm** using feeler gauges (Pic. 1).
- ✓ Once the clearance is adjusted, tighten the two bolts at **9,75 Nm** to prevent vibration loosening during operation of the engine (Pic. 2).
- ✓ If the piston extension is not within **5,7 ± 0,5 mm**, replace the tensioner (Pic. 3).
- ✓ Ensure that the O-ring is present and in the correct place before mounting the tensioner (Pic 4).

Belt guide Feeler gauges



Pic. 1



Pic. 2



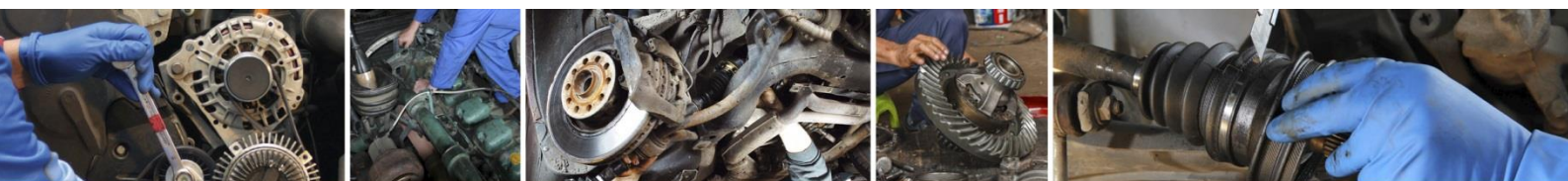
Pic. 3



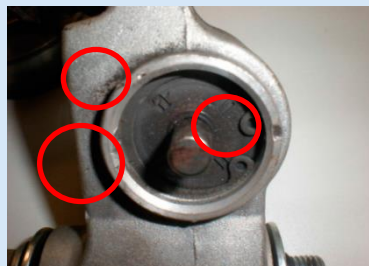
Pic. 4



Note! Align the marks on the timing belt to the correct positions on the timing system and ensure the belt rotate in a clockwise direction!



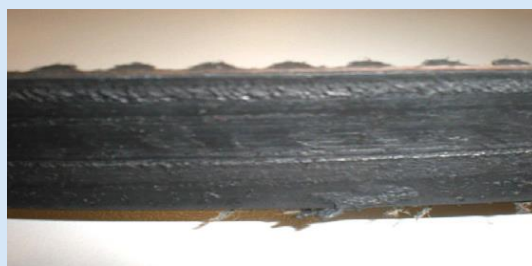
VKMA-C 98109 – Troubleshooting




Dent marks on the tensiometer body



Premature tensiometer failure



Overheated marks

Likely causes	Consequences	Solution
Worn tensiometer	<ul style="list-style-type: none"> ✓ Pulley seizing due to belt overheat ✓ Tooth jumping ✓ Reduced lifespan of the new belt 	<ul style="list-style-type: none"> ✓ Use proper tools ✓ Ensure that the belt guide is set with correct clearance and torque ✓ Follow OE instructions 
Wrong mounting bolt torque	<ul style="list-style-type: none"> ✓ Belt guide shift due to vibration and rub against the running belt ✓ Premature failure of the tensiometer 	
Clearance not correctly set		

Flash QR code

[Click here to watch SKF technical videos on Youtube!](#)

© SKF Group 2016

The contents of this publication are the copyright of the publisher and may not be reproduced (even extracts) unless written permission is granted. Every care has been taken to ensure the accuracy of the information contained in this publication but no liability can be accepted for any loss or damage whether direct, indirect or consequential arising out of the use

