



SYNCHRONOUS BELT DRIVE SYSTEM TECHNICAL SERVICE BULLETIN

BULLETIN PA009-11

PART NUMBER:

All Applications Using The
Below Timing Belts-
250277
250304
250307
250328

MAKE:

Saab
Subaru

MODEL:

All with Manual
Transmission

YEAR:

1997 - 2012

ENGINE:

2.0L
2.2L
2.5L

TIMING BELT SETUP FOR 1999-2012 SAAB AND SUBARU 2.0L/2.2L/2.5L APPLICATIONS WITH MANUAL TRANSMISSION

Industry concern has been raised regarding the Subaru hydraulic tensioner (NAPA Belts/Hoses T43138) applications listed within this bulletin. This issue has prompted NAPA Belts/Hoses Engineers to closely analyze these specific applications. The following information pertains to these findings as well as providing a solution.

Installation procedures are allowing the crankshaft belt shield to come into constant contact with the belt. OE service specifications call for .019" to .059" of clearance between belt and guide while in operation. NAPA Belts/Hoses has produced an application specific tool (NAPA Belts/Hoses 91052) for setting this clearance to ensure belt to cover contact does not occur.

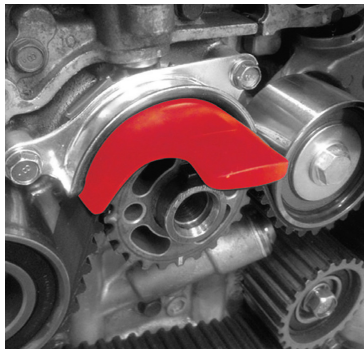


belt contact

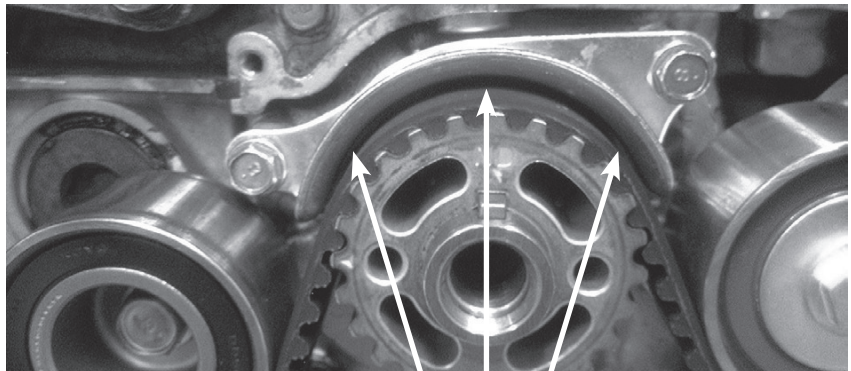
resulting damage to tensioner and belt



TOOL NO. 91052



NAPA Belts/Hoses SPACER TOOL
POSITIONED BELOW THE GUIDE
PLATE.



Ideal clearance between the timing belt and the guide plate.

IT IS CRITICAL TO ENSURE THE CORRECT CLEARANCE SPECIFICATION IS ACHIEVED BETWEEN THE TIMING BELT GUIDE PLATE AND TIMING BELT, AS INCORRECT CLEARANCE CAN CAUSE EXTREME HEAT AND PREMATURE COMPONENT FAILURE LEADING TO CATOSTROPHIC ENGINE FAILURE!

TOOL USE INSTRUCTIONS

The NAPA Belts/Hoses Spacer Tool will create the appropriate amount of clearance between the timing belt and guide plate when used correctly.

1. Install the timing belt and associated components per recommended instructions included in the NAPA Belts/Hoses Timing Component Kit.
2. When installing the timing belt guide, loosely tighten the guide plate by hand.
3. Insert the NAPA Belts/Hoses Spacer Tool between the guide plate and timing belt.
4. Verify the NAPA Belts/Hoses Spacer Tool is positioned correctly below the guide plate, while covering the entire width of the timing belt.
5. Tighten guide plate bolts to recommended specifications (78 – 95 in. lbs.).
6. Use caution while tightening the slotted side of the guide plate, as the guide plate will naturally rotate downwards due to bolt tightening rotation.
7. Remove NAPA Belts/Hoses Spacer Tool before operation.