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# 017

16/02/07

# Technical Bulletin

## Volvo S40/V40 models with 1.9 diesel engine

<b>GATES REFERENCE:</b>	<b>PowerGrip® belts 5212XS, 5485XS, 5486XS, 5552XS</b>	
<b>MAKE:</b>	<b>VOLVO</b>	
<b>MODEL:</b>	<b>S40, V40</b>	
<b>ENGINE:</b>	<b>1.9TD, TDi, DiTD</b>	
<b>ENGINE CODE:</b>	<b>D4192T, D4192T2, D4192T3, D4192T4</b>	

We have recently experienced an increase in errors when selecting the PowerGrip® timing belt for the 1.9 D engine (Renault), installed in the S40/V40 models. We therefore believe it is needed to review this issue in a Technical Bulletin.

There are in total 4 different engine types of this 1.9 diesel. Most of the errors occur with models produced up to 12/2000, because the belts have the same number of teeth and the error is not noticed during installation.

Knowing the exact engine code is VERY important in order to find the correct belt number:

- D4192T:** 66 KW (90 HP), produced from '96 till 09/99. This engine can be recognized by the "VOLVO" name being shown on the "noise-shield", covering the engine, in "silver" letters. (Fig. 1) It requires belt 5212XS (up to engine number 3534) or 5485XS (from engine number 3535). Both have 153 teeth, but these belts are **CERTAINLY NOT INTERCHANGEABLE**, as they have a different tooth profile.
- D4192T2:** 70 KW (95 HP), produced from 10/99 till 12/00. On this engine, "VOLVO" is shown in black letters (Fig. 2), and it needs belt 5486XS. 5485XS and 5486XS have practically the same dimensions and the same profile, but are **CERTAINLY NOT INTERCHANGEABLE!!!** (5486XS has a more durable construction than 5485XS).

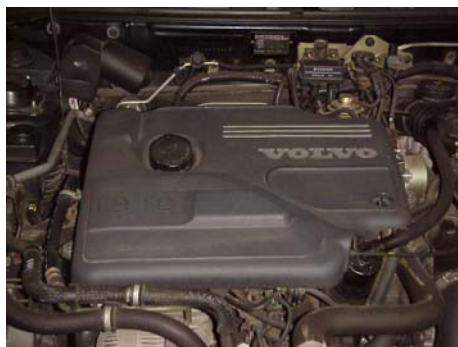


Fig. 1



Fig. 2

- D4192T3** (85KW/116 HP) and **D4192T4** (75 KW/102 HP) have been produced from 12/99 till 06/04. These engines use a completely different belt with 132 teeth (5552XS). They have a black shiny line in the middle of the "noise-shield", and "VOLVO" is shown in black letters.



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The engine code and number can be found:

A) on a small plate (to be cleaned) on the engine block, under the cylinder head, +/- 10 cm away from the gearbox. (Fig. 3 and 4).



Fig. 3



Fig. 4

or  
B) on a sticker situated on the timing belt cover (Fig. 5)



Fig. 5



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BUT, the engine code is also “hidden” in the **chassis number**:  
The 6<sup>th</sup> and 7<sup>th</sup> digit of the chassis number give the engine code!

**70** is a D4192**T3**

**71** is a D4192**T**

**73** is a D4192**T2**

**78** is a D4192**T4**

So chassis number \*YV1VW**73**.....\* means the car has a D4192**T2** engine.

In summary:

<u>Engine code</u>	<u>PowerGrip® belt</u>
D4192T (up to engine number <b>3534</b> )	<b>5212XS</b>
(from engine number <b>3535</b> )	<b>5485XS</b>
D4192 <b>T2</b>	<b>5486XS</b>
D4192 <b>T3</b> and <b>T4</b>	<b>5552XS</b>

So always request/look up the engine code or chassis number before making the selection.

We hope this information will avoid further mistakes in the future.

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