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Subject: Toothed belt diagnosis - Possible causes and remedys

Models: Engines: Option:

All All

Complaint:

Cause:

Production:

Remedy:

Excessive drive noise from toothed belt drive (picture I)

Problem and cause: Remedy:

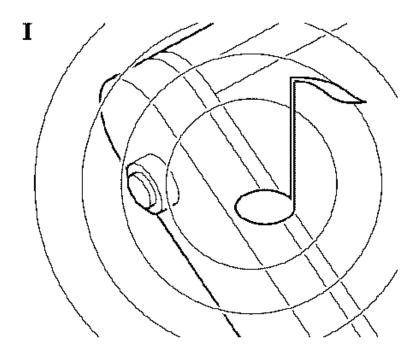
Side tension too high Adjust to correct tension

- belt whines / squeals

Side tension too low Adjust to correct tension

-belt strikes against cover

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Excessive adge wear (picture II)

Problem and cause:

Belt not running parallel to axis and impacting against flanged pulley

Deflective flanged pulley

 Remedy:

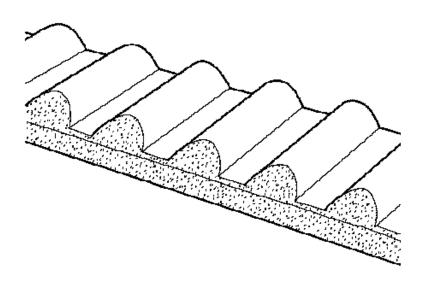
Align correctly

Replace sprocket

Align correctly

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II



Excessive fabric wear at base (picture III)

Problem and cause: Remedy:

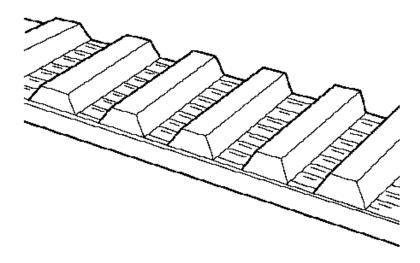
Side tension too high Adjust to correct tension

Belt operating in excessive heat Identify problem and recify

Worn sprocket Replace sprocket

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Ш



Tooth flank wear / roof fractores and tooth shear (picture IV)

Problem and cause: Remedy:

Side tension too high / low, leading $$\operatorname{\mathsf{Adjust}}$ to correct tension to incorrect pitch ratios

Belt does not comply with permissible Replace sprocket

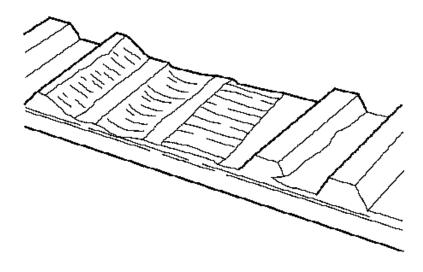
length tolerance

Action of external media(e.g. oil) Identify problem and recify

Sprocket / pulley jammed Identify problem and recify

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\mathbf{IV}

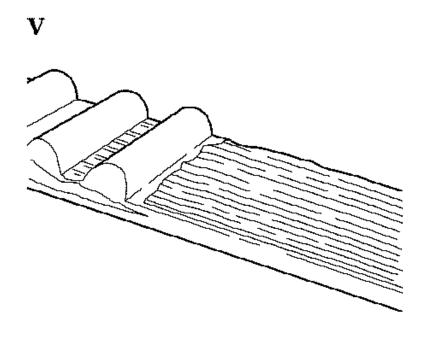


Separation of teeth and fabric from belt body (tension member) (picture V)

Problem and cause: Remedy:

Action of external media Check cover if seated properly

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Damage on pulley side of belt (picture VI)

Problem and cause:

Foreign object caught in belt drive

Damage to gearwheel teeth caused by foreign object or installation tool

Belt damaged prior to $\!\!\!/$ during installation

Remedy:

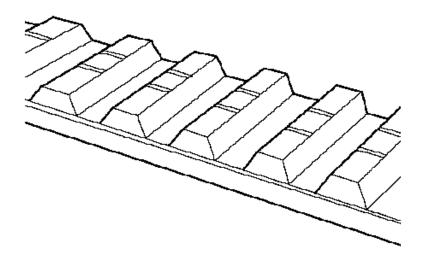
Remove foreign object, check cover if seated properly

Replace sprocket

Ensure proper installation

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VI



Cracks in backing (picture VII)

Problem and cause:

Exposure to excessive heat

Exposure to excessive low temperature

Action of external media

Remedy:

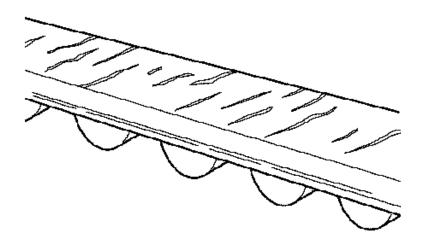
Identify problem and recify

Identify problem and recify

Check cover if seated proberly

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VII



Tearing of the belt (picture VIII)

Problem and cause:

Foreign object caught in drive

Action of external media

Initial tension too high

Belt crimped prior to / during installation

Remedy:

Check cover if seated properly

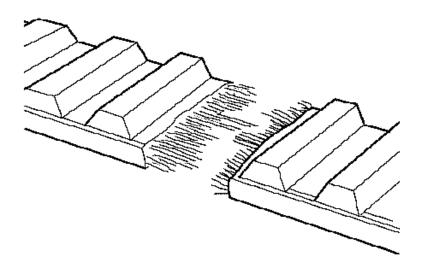
Check cover if seated properly

Adjust to correct tension

Observe handling instruction

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VIII



Fault system component (picture IX)

Problem and cause:

Bearing play

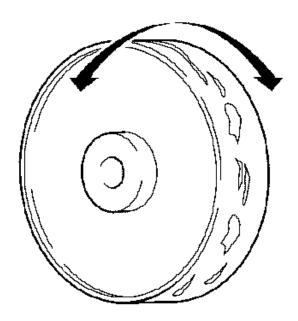
Damaged bearing surface

Remedy:

Substitute idler pulley, tension coil and/or guide roller

Substitute idler pulley, tension coil and/or guide roller

IX



Fracture on fixing spot tension coil-oil pump (1,4-2.2 litre engines) (picture X)

Problem and cause:

Remedy:

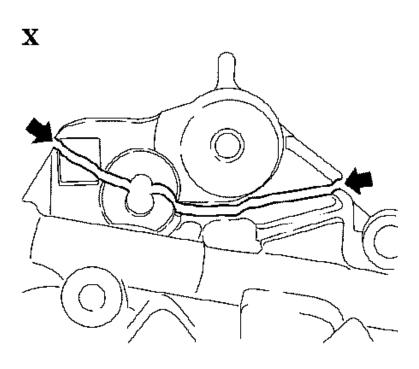
Wrong torque of tension coil on fixing spot of oil pump

Replace oil pump

Important:

- check the oil pump on each toothed belt check or each replace interval and each toothed belt damage for cracks (arrows).

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J - Engine FunctionalGroup:

Complaint Group: 01 - Broken or Cracked,05 - Excessive wear,14 - Noises or Vibrations,24 - Wrong or not mounted

Trouble Code: Non