

Problem – Diagnosis – Solution

Multiple V-ribbed belts/fan belts

Problem and cause

Solution

Multiple V-ribbed belts/fan belts

Hardened, polished flanks

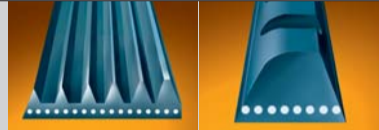
- ① Incorrect tensioning
- ② Tension member of belt damaged by incorrect fitting



- ① Change the belt, adjust tension correctly
- ② Change the belt, fit properly

Uneven wear on ribs

- ① Pulleys are not aligned
- ② Substantial belt vibrations



- ① Examine the drive. Line up or, if necessary, replace any non-aligned pulleys, change the belt
- ② Check the tension. If necessary, tighten or change the belt

Running noises from belt

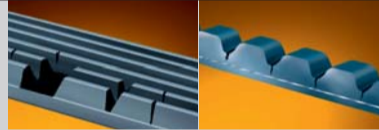
- ① Insufficient tension
- ② Belt past its useful life



- ① Tighten or change the belt
- ② Change the belt

Cracks/separations in belt body/ribs

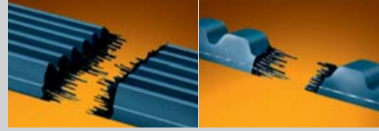
- ① Belt tension is too high/low
- ② Belt past its useful life
- ③ Foreign matter



- ① Change the belt, adjust tension correctly
- ② ③ Change the belt

Crack in the belt after a short running time

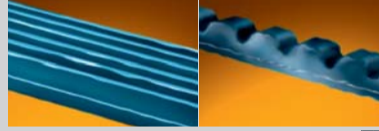
- ① Tension members damaged as a result of incorrect fitting
- ② Belt excessively tensioned



- ① Change the belt, fitting it correctly
- ② Change the belt, adjust tension correctly

Dirt accumulation on the belt

- ① Leaks in the engine or engine compartment (e.g. escape of oil, antifreeze etc.)

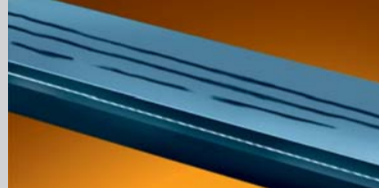


- ① Repair leak(s), change the belt

Multiple V-ribbed belts

Damage to the back of the belt

- ① Back idler pulley defective (sluggish, surface damaged, e.g. by foreign matter)



- ① Change the belt, replace the back idler pulleys

Unacceptable wear of belt ribs

- ① Pulleys/idlers/assemblies defective (sluggish)
- ② Pulleys not aligned



- ① Replace pulleys/idlers/assemblies, change the belt
- ② Align or replace pulleys, change the belt

Fan belts

Hardened, polished flanks (different tension values for belts of sets)

- ① Pulleys not aligned
- ② Tension member of belt damaged by incorrect fitting
- ③ Mismatching of belts



- ① Examine the drive, line up non-aligned pulleys and fit a new set of belts
- ② Change the belt, fitting it correctly
- ③ Always replace a complete set of belts

Excessive wear on flanks/flanks brittle

- ① Excessive slip
- ② Pulleys not aligned
- ③ Pulley grooves with uneven wear



- ① Change the belt, adjust the tension correctly
- ② Examine the drive, line up or, if necessary, replace any non-aligned pulleys
- ③ Line up or, if necessary, replace any non-aligned pulleys