

## Changing the V-belts

Note: this checklist assumes that the alternator pulley update has been performed. This checklist is for the standard 3 V-belt setup, but with the fan belt tension sensor removed.

### Parts

Fan belt	999-192-338-50	
Alternator belt	999-192-343-50	
A/C belt	999-192-363-50	
Fan pulley bolts	900-119-026-02	(3)

### Tools

24mm box-end wrench  
3/8 breaker bar  
magnetic pickup tool  
5mm bit socket 3/8 drive  
10mm triple-square bit socket 3/8 drive (Snap-on)  
8mm socket 1/4 drive  
1/4 ratchet  
3/8 ratchet  
13mm socket 3/8 drive  
3/8 extension  
Polygon wrench (Porsche 999-571-052-02)  
long flat blade screwdriver  
13mm extra deep offset box-end wrench (Stahlwille)  
3/8 torque wrench 10-60Nm (Hazet 5110-1CT)  
Krikkit IV - belt tension gauge (Gates 91107)

### Disassembly

1. Remove air filter cover
2. Remove the A/C belt
  - 8mm bolt on fan shroud
  - 13mm bolts on A/C compressor
3. Remove alternator
  - 10mm triple-square + breaker bar
  - 24mm box-end

4. Remove alternator outer pulley half  
Polygon wrench
5. Remove alternator belt
6. Remove alternator shims (2)
7. Remove alternator inner pulley half
8. Remove fan belt screws and shims (2)  
5mm bit socket
9. Remove fan outer pulley half (but leave inner pulley half and shim (3))

### **Reassembly**

1. Install fan belt with numbers facing
2. Install fan outer pulley half
3. Install spare fan shims (2) and 3 new bolts, just take slack up, not tight
4. Remove DME relay
5. Turn over the engine a few times to seat the belt
6. Torque fan pulley bolts to 10Nm
7. Install alternator inner pulley half
8. Install the alternator belt
9. Install the 2 shims
10. Install the alternator outer pulley half
11. Install the alternator nut and take up the slack, not tight
12. Turn over the engine a few times to seat the belt
13. Torque alternator nut to 50Nm
14. Slacken A/C adjuster nut

15. Install A/C belt  
Drop in bolts in sequential order (LR-RR-RF-LF) and get nuts started
16. Adjust A/C belt tension to 30-35 Kg (or 1/2 turn if tight against stop already)
17. Tighten the 3 long bolts and 1 short bolt and the adjuster lock nut
18. Install 8mm bolt on fan shroud
19. Install air filter cover
20. Install DME relay
21. Start engine and check operation
22. Drive several miles and get engine hot
23. Next morning recheck A/C belt and readjust tension to 30 Kg.