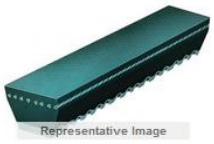
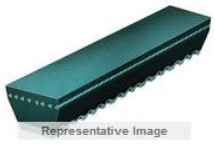
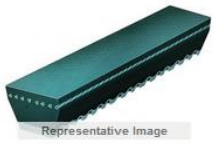
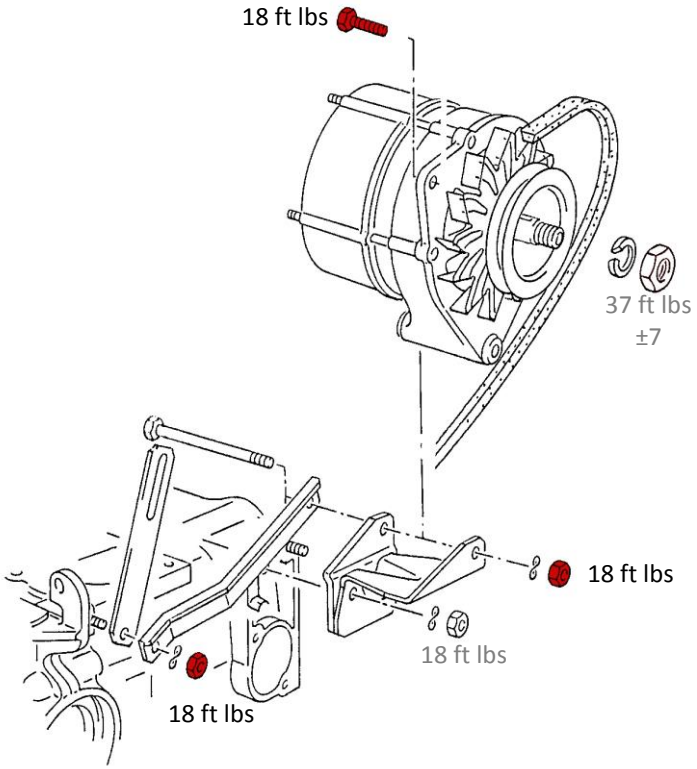
Vanagon 2.1L V-Belts

	A/C	Power Steering	Alternator & Water Pump
	OEM: 12.5x1153mm (45.5") NAPA: 12x1165mm PowerFit: 13x1170mm Gates: 13x1165mm ContiTech: 13x1155mm Conti Elite: 13x1155mm	OEM: 9.5x1080mm (42.5") NAPA: 10x1107mm PowerFit: 10x1111mm Gates: 10x1107mm ContiTech: 10x1075mm Conti Elite: 11x1090mm	OEM: 9.5x1100mm (43.5") NAPA: 10x1120mm PowerFit:10x1118mm Gates: 10x1120mm ContiTech: 10x1100mm Conti Elite: 11x1105mm
NAPA AUTO PARTS	 Part #NBH 259455 Brand: NAPA $25.99	 Part #NBH 257430 Brand: NAPA $21.99	 Part #NBH 257435 Brand: NAPA $22.49
NAPA AUTO PARTS	 Part #PBH 17455 Brand: Power Fit $3.99	 Part #PBH 15430 Brand: Power Fit $5.29	 Part #PBH 15435 Brand: Power Fit $5.29
O'Reilly AUTO PARTS	 Part #9455 Brand: Gates XL $25.99	 Part #7430 Brand: Gates XL $22.99 Part #3VX425 Gates Super HC – 9.7x1080mm	 Part #7435 Brand: Gates XL $24.99
SUMMIT RACING EQUIPMENT RA ROCKAUTO.COM	 Part #17456 Brand: Continental Elite (form. Goodyear Gatorback)	 Part #15430 (1080mm) Part #15436 (1090mm) Brand: Continental Elite (form. Goodyear Gatorback)	 Part #15440 Brand: Continental Elite (form. Goodyear Gatorback)



Alternator / Water Pump Belt

All bolts and nuts are 13mm.

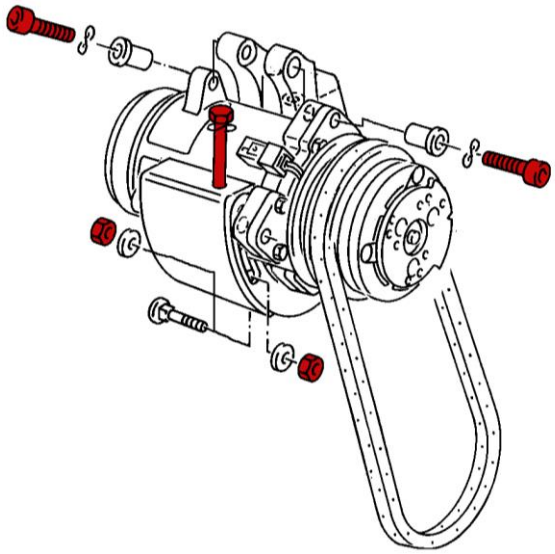
Deep socket (or extension) required for lower bracket nuts.

Belt removal:
Once all are loosened, pivot the alternator inboard all the way (to your left) and remove belt.

Belt adjustment:
Once all are loosened, move the alternator outboard (to your right) to tighten the belt, or move the alternator inboard (to your left) to loosen the belt.

Once adjusted to proper spec (approx. ¼" deflection), tighten all nuts and bolts to shown torque specs.

Deflection: 1/64" x belt span = deflection



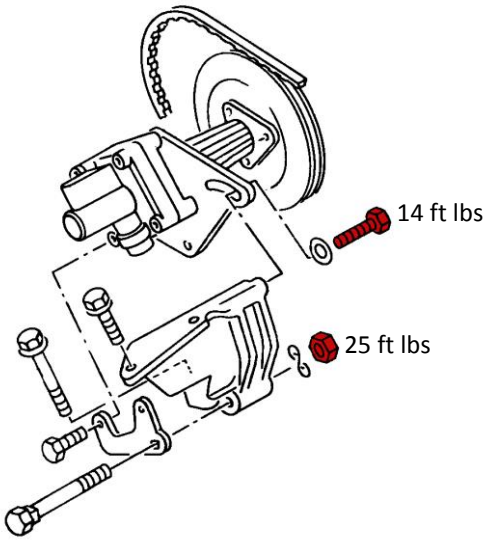
A/C Compressor Belt

Inboard bracket bolts: 8mm Allen (2" long wrench needed for rear)
Outboard cradle bracket nuts: 13mm (deep socket/extension req.)
Top cradle bracket adjusting bolt: 13mm

Belt removal & adjustment:

- Loosen the 2 Allen bolts and two 13mm nuts.
- Removal: Loosen the 13mm adjusting bolt until the belt can be removed (compressor will pivot to your left). Note: Do not loosen it so much that it becomes completely unthreaded – keep an eye on it.
- Adjustment: Turn adjusting bolt clockwise to tighten the belt, counterclockwise to loosen.

Once adjusted to proper spec (approx. ¼" deflection), tighten all nuts and bolts (guess on torque; manuals don't specify).



Power Steering Belt

Upper slide adjust bolt: 13mm (deep socket/extension req.)
Lower pivot nut: 17mm (socket/box wrench from below)

Belt removal:

- Loosen nut and bolt. Pivot the pump inboard (to your left) and remove belt from pulleys.
- Undo clamp from bleeder ring coolant hose and carefully remove hose (use pinch clamp if desired) from the bleeder ring.
- Slip belt out and around the coolant hose and oil filler tube.

Belt adjustment:
Once all are loosened, move the pump to your right to tighten the belt, or move the pump to your left to loosen the belt.

Once adjusted to proper spec (approx. ¼" deflection), tighten all nuts and bolts to shown torque specs.

Belt replacement tips

From: Jerry Baker
Year(s): 83.5 - 91

TOOLS REQUIRED:

- Ratcheting socket driver
- 13mm deep well socket
- 13mm combination wrench
- 12" flat tip screwdriver or small pry bar.
- small flat tip screwdriver

1. Remove Power steering belt first. Loosen bottom bracket bolt which also goes through the power steering housing. This is best done from beneath the vehicle with a 13mm combination wrench. Then loosen top adjuster bolt which goes through slotted bracket at top. Pull inboard or counterclockwise on power steering pump. This should rotate the power steering pump counter clockwise and you should be able to get the belt off the pulley. You will probably also need to disconnect the coolant vent hose to get the belt out. This is the small fabric hose which is next to the oil filler tube. It is in most cases secured with a worm gear clamp. Once the vent hose is disconnected you can remove the power steering belt.

2. If fitted, remove the AC drive belt. Loosen the two (fore & aft) bolts on the inboard side of the air conditioner compressor. These are 13mm. You can loosen the front bolt with a 13mm combination wrench. Loosen the rear bolt with a drive ratchet and 13mm deep well socket. Then loosen the outboard adjusting bolt with a 13mm combination wrench. You will notice an adjusting screw on the outboard side of the AC compressor. Turn this screw counter clockwise. You may notice the screw come out of the adjusting block, push down on the AC compressor housing, this will loosen the belt to facilitate belt removal. Keep loosening the adjuster screw until the belt can be removed. Be careful not to remove the adjuster screw completely from the adjusting block.

3. Remove the ALTERNATOR belt. This belt also drives the water pump. Loosen the bottom bolt which secures the alternator to the alternator mounting bracket. Then loosen the top adjuster bolt which goes through the slotted adjusting bracket. These are both 13mm bolts. Rotate the alternator housing to your left, or in a counter clockwise movement. This will facilitate belt removal from the alternator.

Install the belts in reverse order of removal; Alternator belt first. AC compressor belt second. Power steering belt last. The AC compressor belt is the only belt with a screw type adjuster. You will have to use a pry bar to adjust the belt tension on the alternator and power steering belts. Adjust the alternator belt first and then secure both of the alternator bolts tightly. You will notice an indentation in the bracket directly beneath the power steering pump housing. Place a 12" flat tip screwdriver blade or small pry bar tip in this indentation. Lift up on your pry bar against the power steering pump housing. Tighten the adjusting bolt on the power steering pump adjusting bracket.

Be careful not to get the belts too tight. You should have slight (1/8" - 1/4") deflection in the belts after they are adjusted. This of course depends on the length of the belt. It's always a good idea to use a belt adjusting gauge.

Be sure to connect the vent hose and tighten the clamp.

Good luck!

JB
88 GL 2.1L