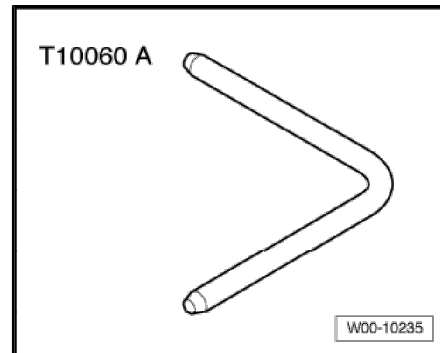


1.3 Removing and installing poly V-belt

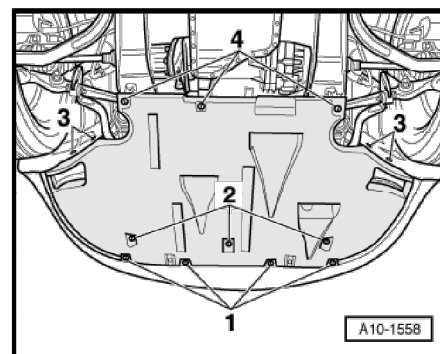
Special tools and workshop equipment required

- ◆ Locking pin -T10060 A-



Removing

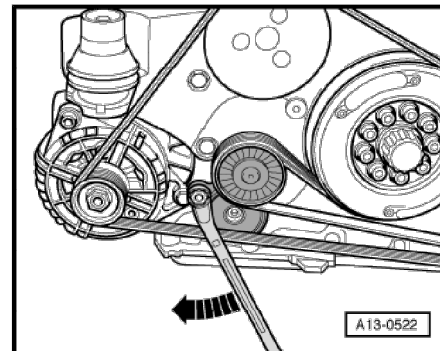
- Release fasteners -1 ... 4- and take off noise insulation.



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Before removing, mark direction of rotation of poly V-belt with chalk or felt-tipped pen. If the belt runs in the opposite direction when it is refitted, this can cause breakage.

- To slacken the poly V-belt, turn the tensioner in the direction of the -arrow-.



- Lock tensioner by inserting locking pin -T10060 A- into locating holes -arrow-.

i Note

The illustration shows special tool -3204-, which was used before special tool T10060 A was supplied.

- Remove poly V-belt from alternator pulley.

Installing

Installation is carried out in the reverse order; note the following:

i Note

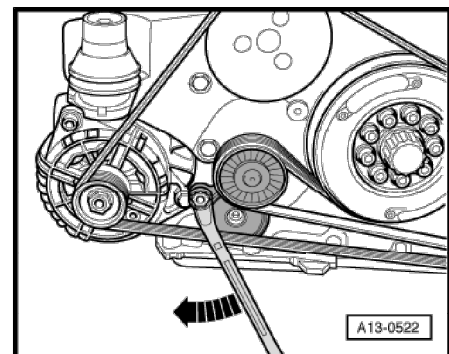
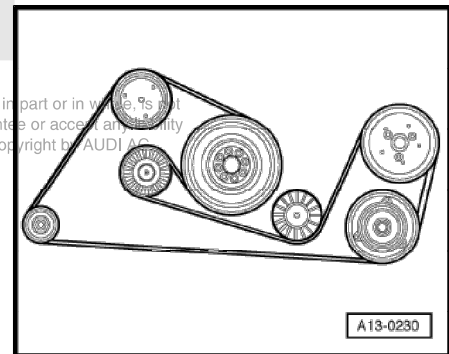
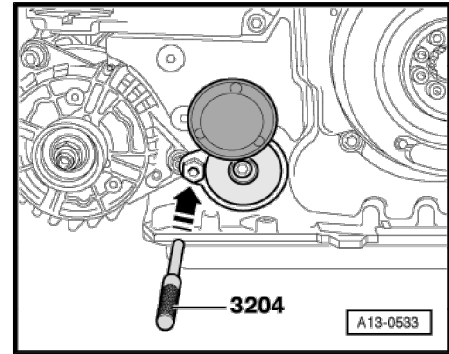
◆ After renewing any of the following components, it is necessary to check the alignment of the poly V-belt ⇒ [page 55](#).

- ◆ Power steering pump
- ◆ Air conditioner compressor
- ◆ Bracket for power steering pump and AC compressor

- Position poly V-belt over poly V-belt pulleys in the following sequence.

- 1- Idler roller (top)
- 2- Crankshaft
- 3- Tensioner for poly V-belt
- 4- Idler roller (bottom)
- 5- Power steering pump
- 6- Air conditioner compressor
- 7- Alternator

- Turn tensioner in direction of -arrow-.
- Remove locking pin -T10060 A- .
- Make sure poly V-belt is properly positioned and correctly routed.
- Start engine and check that belt runs properly.



1.4 Checking alignment of poly V-belt

After renewing any of the following components, it is necessary to check the alignment of the poly V-belt.

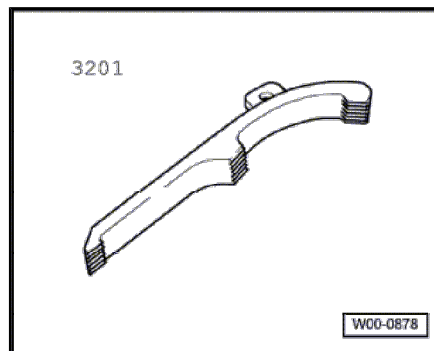
- ◆ Power steering pump
- ◆ Air conditioner compressor
- ◆ Bracket for power steering pump and AC compressor

 **Note**

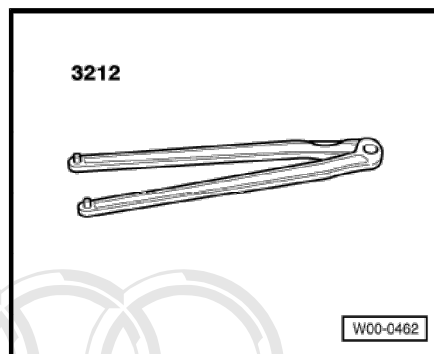
To prevent damage to the poly V-belt, check the alignment of the poly V-belt between the air conditioner compressor and the power steering pump.

Special tools and workshop equipment required

- ◆ Alignment gauge -3201-

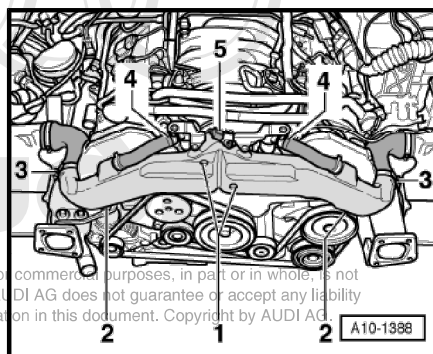


- ◆ Pin wrench -3212-

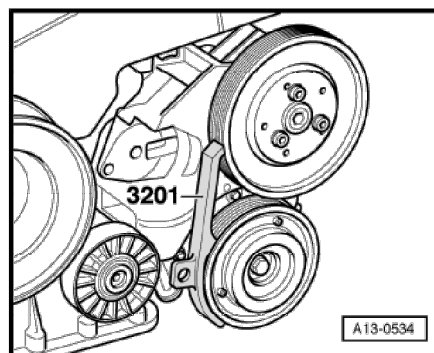


Test sequence

- Lock carrier must be pulled forwards ⇒ [page 47](#) .
- Poly V-belt must be removed ⇒ [page 54](#) .
- Unplug electrical connector -5- at charge pressure sender - G31- .
- Release hose clips -3- and -4-.
- Detach the hoses from the air recirculation valves.
- Remove bolts -1- and -2- and detach air pipe.



- Apply alignment gauge -3201- onto poly V-belt pulley for air conditioner compressor.
- Poly V-belt pulley for power steering pump must align with poly V-belt pulley for air conditioner compressor.

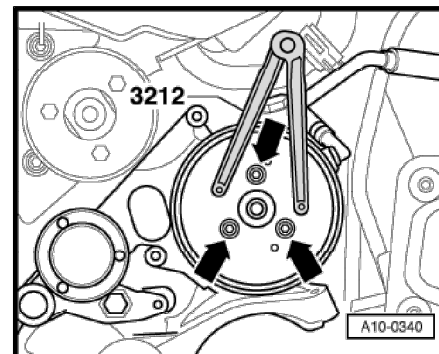


If the two poly V-belt pulleys are not aligned:

- Unscrew bolts -arrows- at pulley for power steering pump.

 **Note**

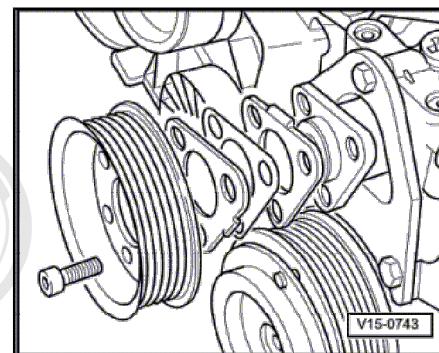
- ◆ *When slackening off and tightening bolts, counterhold with pin wrench -3212- .*
- ◆ *Installation position: the word “vorne” (front) on the poly V-belt pulley faces the direction of travel.*



- Use shims of thicknesses “0.5”, “1.0” and “1.5” mm to align pulley for power steering pump with pulley for air conditioner compressor: Part No. => Parts catalogue .
- Then check alignment of pulleys using alignment gauge -3201- . Repeat adjustment if necessary.

 **Note**

- ◆ *Renew O-ring for front air pipe.*
- ◆ *Hose connections and hoses for charge air system must be free of oil and grease before assembly. Do NOT use lubricant.*
- ◆ *Secure all hose connections with the correct type of hose clips (same as original equipment) => Parts catalogue.*



Tightening torques

Component	Nm
Poly V-belt pulley to power steering pump	22
Front air pipe to: Throttle valve module	10
Bracket	10 ⁴⁾
Hose clips (9 mm wide)	3
Hose clips (13 mm wide)	5.5

4) Install using locking fluid; locking fluid => Parts catalogue .

1.5 Removing and installing vibration damper

Removing

- Lock carrier must be pulled forwards => [page 47](#) .
- Poly V-belt must be removed => [page 54](#) .
- Slacken 8 securing bolts -1- and remove vibration damper from crankshaft.

