

39-7

Speedometer Vehicle Speed Sensor (VSS) -G22- and sensor drive gear, removing and installing

- Transmission installed
- Observe general repair instructions ⇒ [Page 00-10](#).

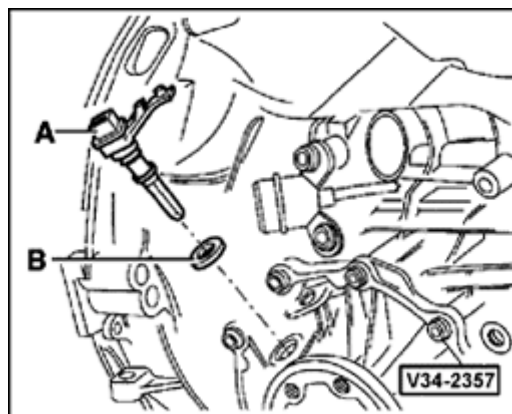
Vehicle Speed Sensor (VSS) -G22-, removing and installing

Removing

- Disconnect harness connector at Vehicle Speed Sensor (VSS) -A-.
- Press retaining clip down, turn sensor sideways and remove upward.

Installing

- Replace O-ring -B-.
- Install sensor and lock into place.
- Handle sensor carefully. If damaged, speed readings may not be correct.



Speedometer drive gear, removing and installing

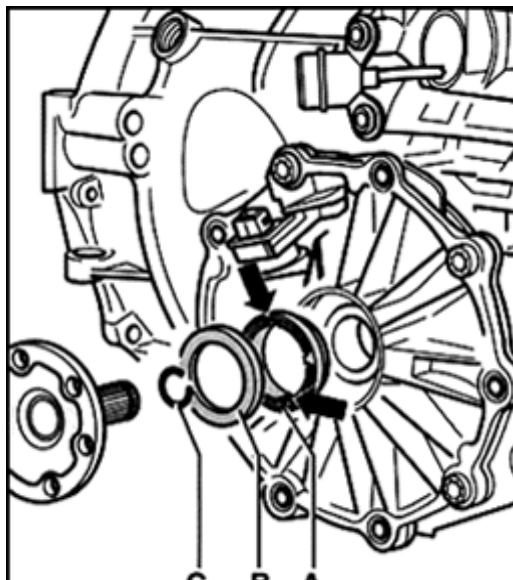
Special tools and equipment

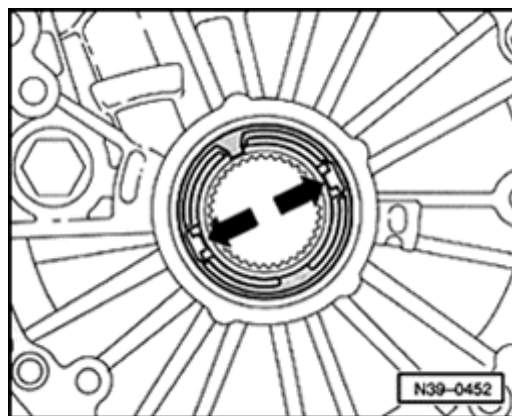
- ◆ VW195 arbor
- ◆ VW295 needle bearing drift
- ◆ VW681 extractor lever
- ◆ VAG1306 drip tray

Removing

A

- Remove left drive flange and seal -B- ⇒ [Page 39-1](#) .
- Remove Vehicle Speed Sensor (VSS) ⇒ [Page 39-7](#) .





A

- Press retaining clips in direction of arrows using screwdriver.
- Remove drive gear by prying out, alternating between sides.

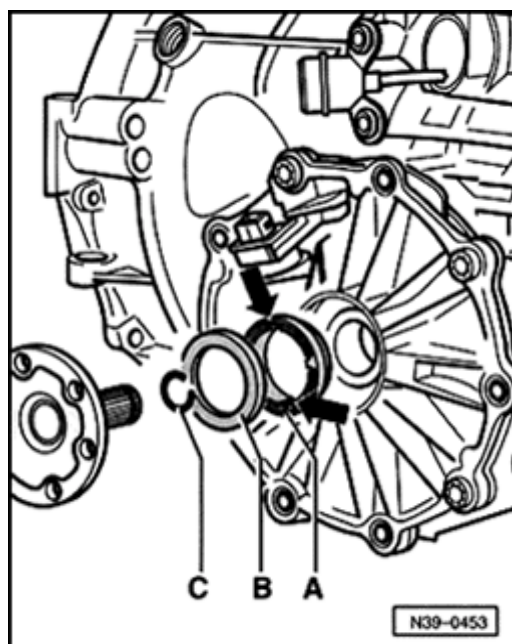
Installing

Installation is the reverse order of removal, note the following:

Note:

Carefully install drive gear onto differential without canting. Do not use force: the drive gear can break easily.

Installation position:



- ▲ The drive peg of the drive gear -A- faces seal -B- and locks into groove in the differential.

The retaining clips (arrows) lock in the circumferential groove in the differential.

- Always replace seal -B- and circlip -C- ⇒ [Page 39-3](#) .
- Drive in drive flange using VW295 needle bearing drift.
- Top up and check transmission fluid ⇒ [Page 34-36](#) .

Tightening torques

Component		Tightening torque
Drive axle to drive flange	M8	40 Nm (30 ft lb)
	M10	77 Nm (57 ft lb)
Heat shields over drive axles to transmission		

	23 (17 ft lb)
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