

Volkswagen > New Beetle, New Beetle Convertible > 1998-2008 Suspension, Wheels, Steering 48 - Removal and Installation

.

Power Steering Gear

Special tools, testers and auxiliary items required

- ◆ Hose clamps up to 25 mm dia. 3094
- ◆ Torque wrench V.A.G 1331
- ◆ Torque wrench V.A.G 1332
- ◆ Engine/transmission jack V.A.G 1383 A with universal transmission support V.A.G 1359/2

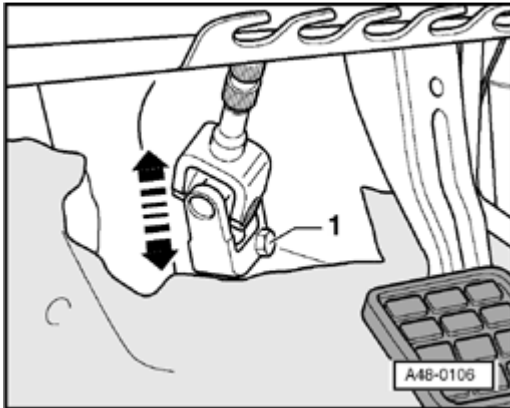
Notes for repair work on power steering gear

- ◆ All work on the power steering must be carried out with utmost cleanliness.
- ◆ Thoroughly clean all connections and the surrounding area before disconnecting.
- ◆ If repairs will not be carried out immediately, place removed parts onto a clean surface and cover.
- ◆ Only use lint-free cloths.
- ◆ Only unpack replacement parts immediately prior to installation.
- ◆ Only use parts in their original packing.

Removing

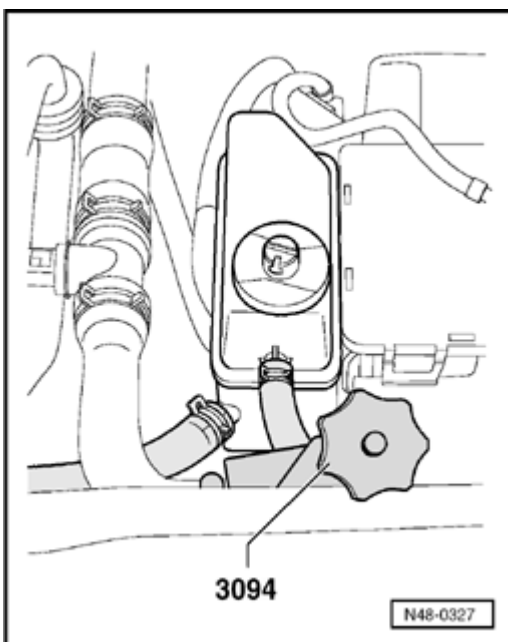
- Remove bolts - 1 - .

- Remove cover - A - .

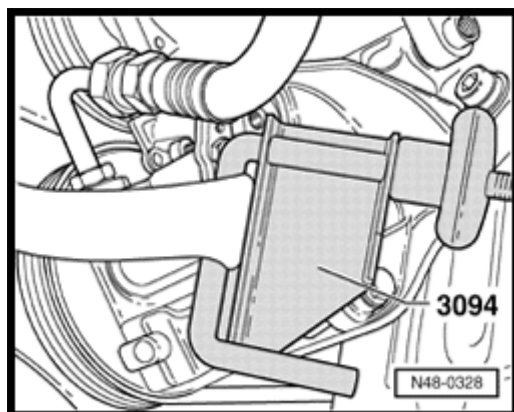


- Remove bolt - 1 - from universal joint.

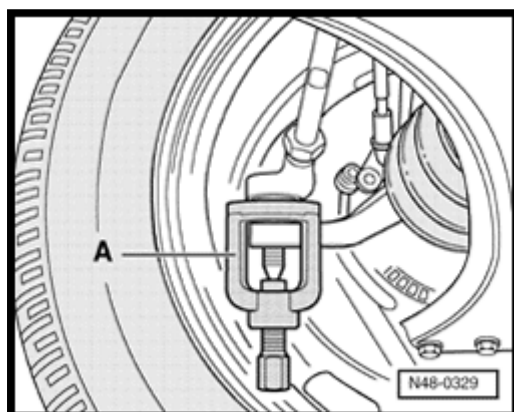
- Remove universal joint from steering gear.



- Clamp off hose from reservoir using hose clamps up to 25 mm dia. 3094 .



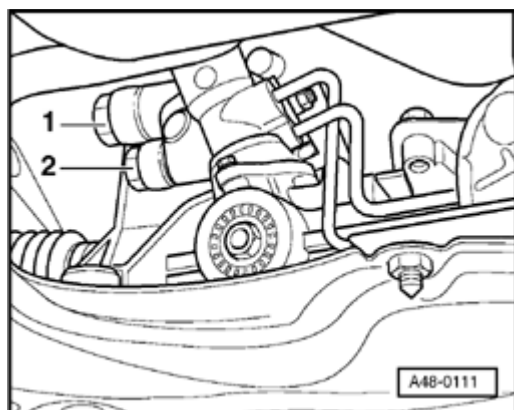
- Clamp off hose on power steering pump using hose clamps up to 25 mm dia. 3094 .
- Remove sound-deadening pan.
- Place drip tray underneath.



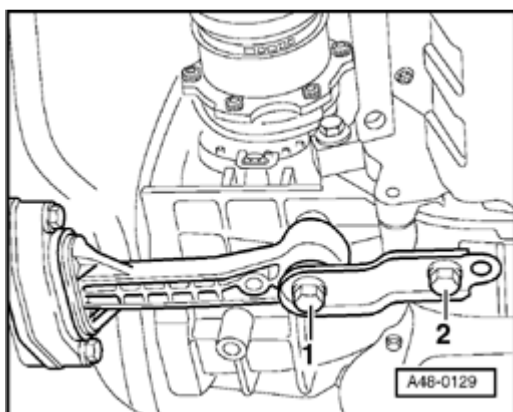
- .
- Press off tie rod from steering knuckle.

A - Tie rod puller (standard), e.g. Kukko 128/2

- Remove hose lines at steering gear and plug using a plastic bag and tape.

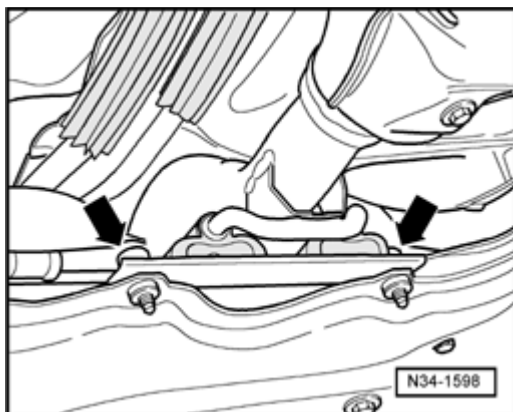


- Seal threaded holes on power steering gear using plastic screw plugs - **1** - and - **2** - .



- Remove bolts - **1** - and - **2** - .

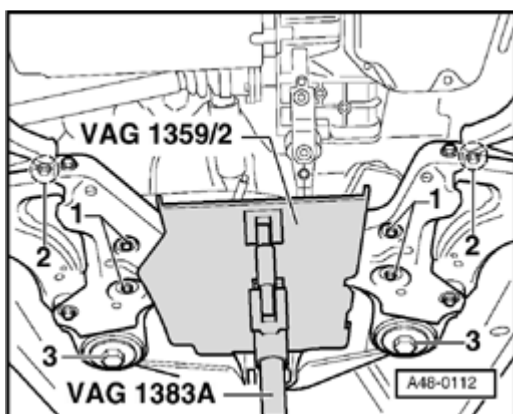
With TDI Engines



- Remove bracket for front exhaust pipe at subframe - **arrows** - and disengage.

Continuation for All

- Support subframe using engine/transmission jack V.A.G 1383 A .



- Loosen bolts - **1** - .

- Remove bolts - 2 - and - 3 - .
- Lower subframe using engine/transmission jack V.A.G 1383 A .
- Remove bolts - 1 - for power steering gear.
- Remove power steering gear toward right.

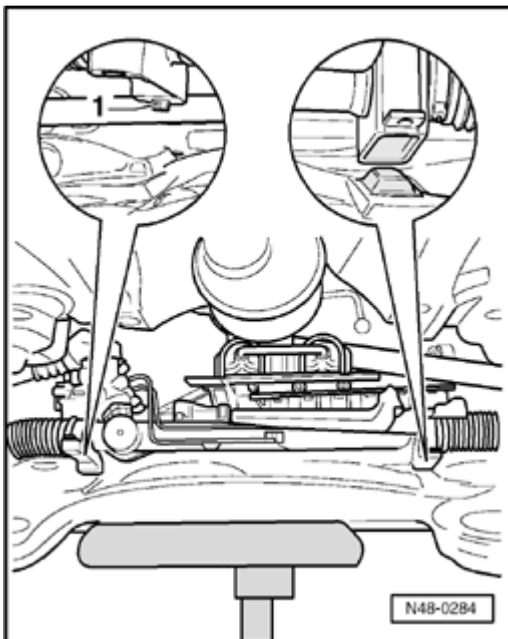
Installing

Note:



Use new O-rings for hose/line connections.

- ✦ *Coat seal on steering gear with lubricant, e.g. lubricating soap, before installing steering gear.*
- ✦ *After placing steering gear on to universal joint shaft, make sure that seal on steering gear makes contact on assembly plate without kinks and opening to footwell is correctly sealed. Ingress of water and/or noises may result otherwise.*
- ✦ *Make sure sealing surfaces are clean.*



- Place power steering gear on subframe.

Threaded sleeve - 1 - must sit in bore of subframe.

Rest of installation is performed in reverse order of removal.

Tightening specifications for steering components ⇒ [Specifications](#) .

Tightening specifications for front axle ⇒ [Front Suspension Tightening Specifications](#) .

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