

Volkswagen Corrado 1990 - 1994

General Engine

Engine Assembly (Page GR-10)

Engine code - PG

- [engine/transmission, adjusting](#)
- [engine/transmission, mounting points](#)
- [hydraulic engine/transmission, mounting points](#)
- [installing](#)
- [removing](#)
- [tightening torques](#)

Engine code - AAA

- [engine/transmission mounting points](#)
- [installing](#)
- [removing](#)
- [tightening torques](#)

Engine, removing

Notes

Remove engine from top with the transmission attached.

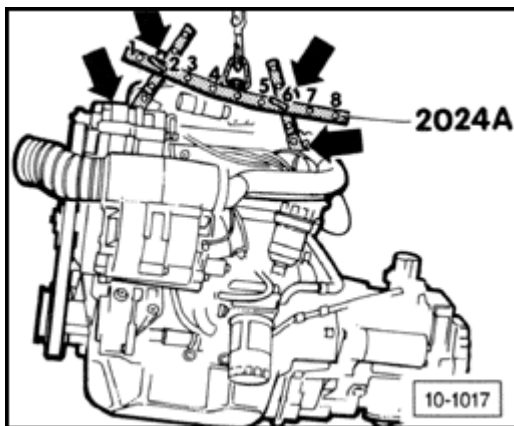
Do not disconnect

- hoses or brackets from power steering pump
- A/C hoses

CAUTION!

Coolant/antifreeze must not be reused when replacing engine, cylinder head, cylinder head gasket, radiator and heater core.

- disconnect battery ground strap
- remove power steering pump and attach to body
- remove compressor mounting bolts together with mount and move to one side
- unscrew condenser from radiator, and move to one side



A

- attach engine sling as shown and take weight with crane

CAUTION!

Use cotter pins on hooks and holding pins (arrows) to secure tool.

Pulley side lower (**left arrow**) second hole in vertical at position **2**.

Flywheel side lower (**right arrow**) second hole in vertical bar at position **6**.

The positions marked 1-4 on the bar must be towards the pulley side. The holes in the hooks are counted **upwards** from the hook.

CAUTION!

Guide engine carefully when lifting to avoid damage to body.

- mount engine onto work bench with engine mount **VW 540** if it is to be disassembled

Engine, installing

Install in reverse order of removal. Note the following:

- check clutch release bearing for wear, replace if necessary
- lubricate clutch release bearing, driveshaft lightly with MoS₂ grease
- check and ensure that the dowels for centering engine/transmission are in cylinder block
- replace self-locking nuts for engine mounts
- lower engine onto mounts

CAUTION!

Guide engine carefully when lowering to avoid damage to driveshaft, body.

- connect rear engine mount first, then connect transmission mount
- loosen front engine mount and mount bracket
- align all engine supports with mount bushing before tightening mount bolts
- adjust accelerator cable (see [repair group 20](#))
- reconnect all electrical connections (see [repair group 97](#))
- check and adjust shift linkage (see [repair group 34](#))
- fill coolant (see [repair group 19](#))
- check and adjust engine oil level (see [repair group 17](#))
- adjust engine timing/idle (see Repair Group 28)
- check and adjust headlights, if necessary

Tightening torques

Engine to transmission

M10 45 Nm (33 ft lb)

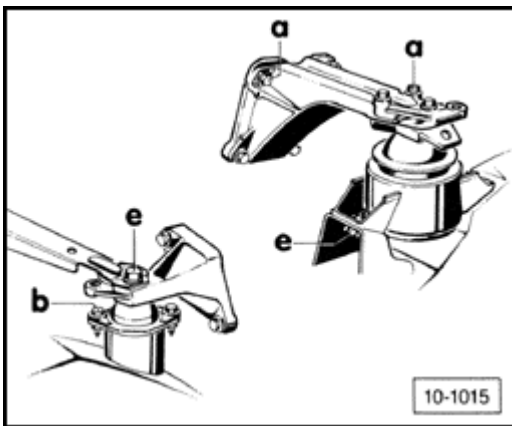
M12 55 Nm (41 ft lb)

Driveshaft to flange 45 Nm (33 ft lb)

Exhaust pipe to exhaust manifold 40 Nm (30 ft lb)

Power steering pump to mounting bracket 25 Nm (18 ft lb)

Engine/transmission mounting points



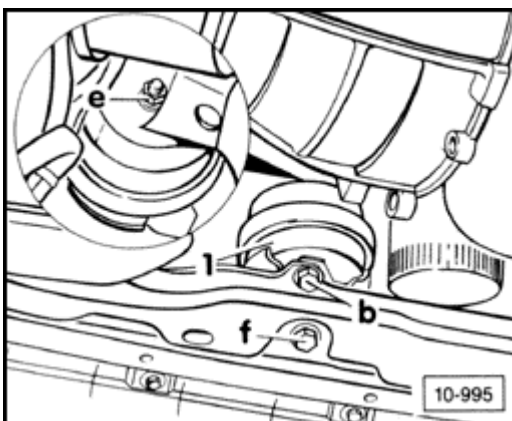
A

a = 25 Nm (18 ft lb)

b = 30 Nm (22 ft lb)

e = 60 Nm (44 ft lb)

Hydraulic engine/transmission mounting points



A

1 = hydraulic mount

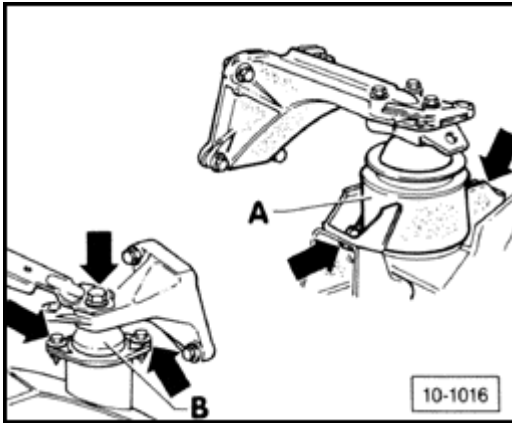
b = 30 Nm (22 ft lb)

e = 60 Nm (44 ft lb)

f = 70 Nm (53 ft lb)

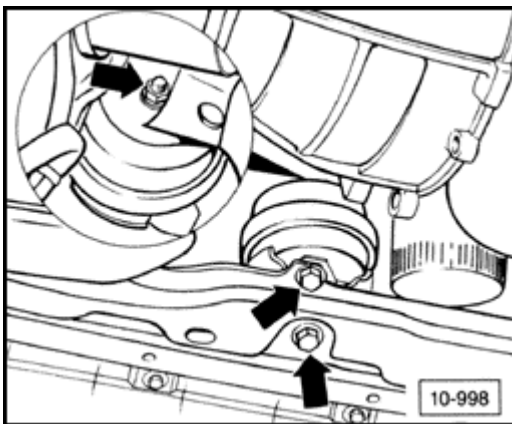
Engine/transmission, adjusting

Adjustment is necessary only if engine/transmission is removed, or mounts are loosened from engine/transmission.



A

- loosen bolts (**arrows**) from engine mount **A**
- loosen bushing **B** on transmission mount (**arrows**)



A

- loosen front engine mount and mount bracket (**arrows**)
- lightly rock or shake engine to adjust position
- re-tighten bolts in same sequence

Engine, removing/installing

Removing

Engine code AAA

Notes

Remove engine from top with transmission attached.

CAUTION!

Wait at least 20 seconds after switching off ignition before disconnecting battery. This will allow the platinum hot-wire in Air Mass Sensor (G 70) to burn itself clean.

CAUTION!

Always switch off ignition when disconnecting/reconnecting battery, or any part of Motronic ignition wiring system to prevent damage to Motronic control unit (J 220).

CAUTION!

Always obtain radio security code before disconnecting battery ground strap.

- switch off ignition
- disconnect battery ground strap

Notes

Ensure all removed electrical wiring, tie wraps, are reinstalled and positioned as originally placed.

- remove air cleaner housing
- remove front lock support, see [Repair Group 50](#)
- remove front bumper, see [Repair Group 63](#)

CAUTION!

Coolant/antifreeze must not be reused when replacing engine, cylinder head, cylinder head gasket, radiator and heater core.

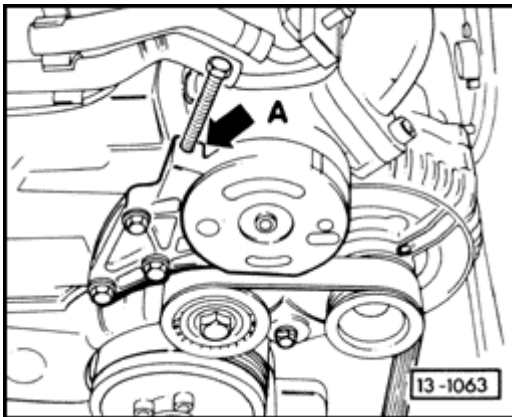
- remove radiator
 - save coolant for reuse, when applicable

Manual transmission

- unbolt and disconnect hydraulic clutch cylinder
- disconnect shift cable and support bracket

Automatic transmission

- unclip and disconnect selector lever cable



- screw in a long 8.0 mm bolt into a threaded hole **A** on tensioner to release poly-ribbed belt tension

Notes

In order to prevent damage to tensioner, only screw in bolt sufficiently to release belt tension.

- remove poly-ribbed belt from power steering pump. A/C compressor

CAUTION!

Do not kink or disconnect A/C refrigerant lines.

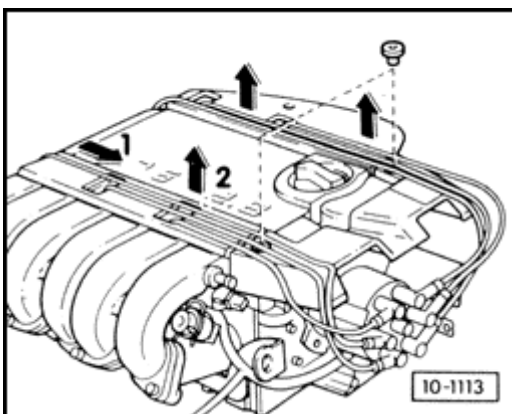
If A/C refrigerant system is opened or requires service refer to [repair group 87](#) for CAUTIONS, WARNINGS and procedures.

- remove A/C compressor and secure to body or frame

CAUTION!

Do not kink power steering hoses.

- remove power steering pump from bracket and secure to body or frame, see [Repair Group 48](#)



- remove ignition cable guides and ignition cables (**arrows**)
- remove ignition distributor cap

- remove trim cover over cylinder head covers, and disconnect accelerator cable at throttle body and cable guide
- disconnect 42-point connector from engine wiring harness
- remove and disconnect all other alternator, starter and transmission electrical wiring, and lay to one side
- pull off all coolant, vacuum and intake hoses from engine
- disconnect inlet and return fuel lines at fuel distributor

Volkswagen Corrado 1990 - 1994

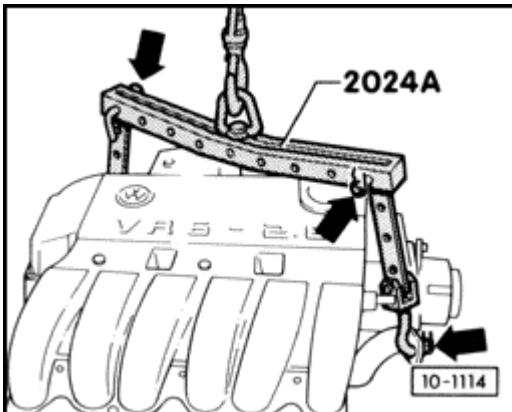
General Engine

Engine Assembly (Page 10-8)

Notes

Carefully cover any open fuel lines to prevent spillage and contamination.

- disconnect oxygen sensor and front exhaust pipe, see [Repair Group 26](#)
- disconnect and secure axle shafts



- attach engine sling as shown and take weight with crane

CAUTION!

Use cotter pins on hooks and holding pins (arrows) to secure tool.

Pulley side (**left arrow**)

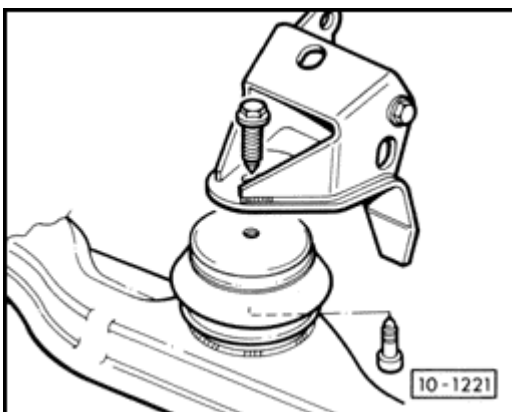
fourth hole in vertical bar at position **1**

(**center arrow**)

Flywheel side (**right arrow**)

fourth hole in vertical bar at position **8**

The positions marked 1-4 on the bar must be towards the pulley side. The holes in the vertical bar are counted **upwards** from the hook.



- unbolt engine from engine carrier at front

CAUTION!

Guide engine carefully when lifting to avoid damage to body.

- mount engine onto work bench with engine mount **3269** if it is to be disassembled

Installing

CAUTION!

Part numbers are for reference only. Always check with your Parts Department for latest information.

- check clutch release bearing for wear, replace if necessary
- lubricate clutch release bearing driveshaft lightly with grease **G 000 100**
 - do not lubricate release bearing guide sleeve

Volkswagen Corrado 1990 - 1994

General Engine

Engine Assembly (Page 10-9)

- check and ensure that the dowels for centering engine/transmission are in cylinder block

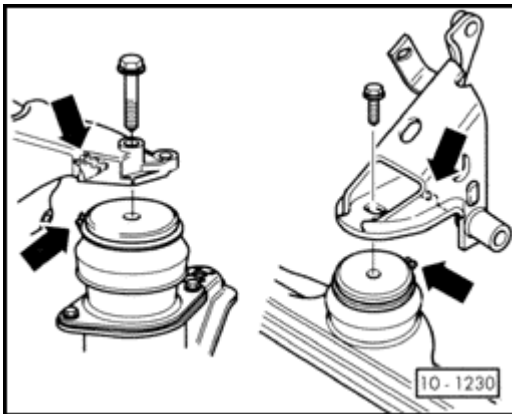
WARNING!

DO NOT re-use any fasteners that are worn or deformed in normal use. Many fasteners are designed to be used only once and become unreliable and may fail when used a second time. This includes, but is not limited to, nuts, bolts, washers, self-locking nuts or bolts, circlips, cotter pins. Always follow recommendations given in this publication. For replacements always use new parts.

CAUTION!

Guide engine carefully when lowering to avoid damage to driveshaft, body.

- lower engine onto mounts



- ensure tabs (**arrows A**) fit into opening (**arrows B**) on engine mounts
- handtighten engine and transmission carrier bolts approximately 5 to 6 turns
- lightly rock or shake engine to adjust position
- fully tighten engine and transmission carrier bolts
- install V-belt, see [Repair Group 13](#)
- reconnect all electrical connections, see appropriate wiring diagram
- adjust accelerator cable, see [Repair Group 20](#)
- refill coolant, see [Repair Group 19](#)
- check engine timing, see Repair Group 28
 - not adjustable
- check and adjust engine oil level
- check and adjust shift linkage, see [Repair Group 34](#)
- check and adjust headlights, if necessary

Volkswagen Corrado 1990 - 1994

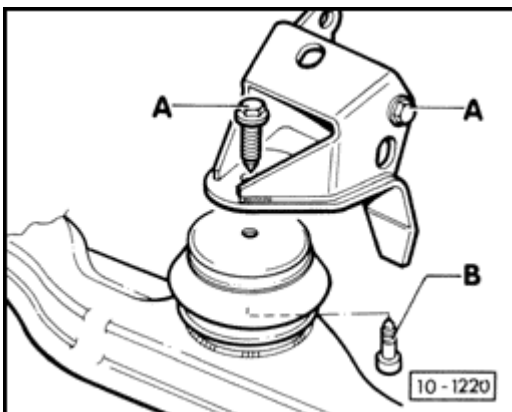
General Engine

Engine Assembly (Page 10-10)

Tightening torques

| | |
|---|------------------|
| Engine support to body | 50 Nm (37 ft lb) |
| Engine to transmission | |
| M 10 | 60 Nm (44 ft lb) |
| M 12 | 80 Nm (59 ft lb) |
| Driveshaft to flange | 45 Nm (33 ft lb) |
| Front exhaust pipe to exhaust manifold | 40 Nm (30 ft lb) |
| Front exhaust pipe to catalytic convertor | 25 Nm (18 ft lb) |
| Power steering pump to mounting bracket | 25 Nm (18 ft lb) |

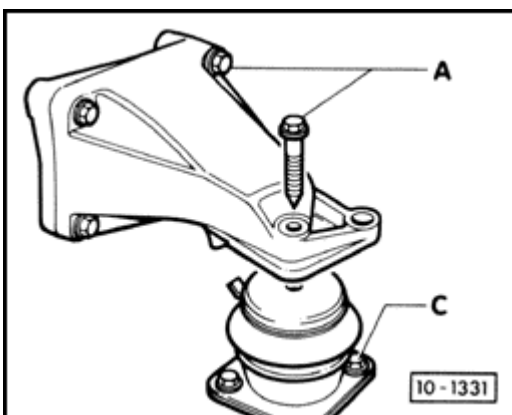
Engine to engine carrier, front



A = 60 Nm (44 ft lb)

B = 55 Nm (41 ft lb)

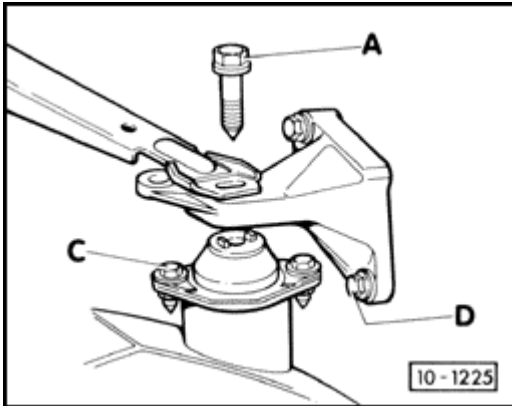
Engine to engine carrier, right



A = 60 Nm (44 ft lb)

C = 25 Nm (18 ft lb)

Transmission to transmission carrier



A = 60 Nm (44 ft lb)

C = 30 Nm (22 ft lb)

D = 25 Nm (18 ft lb)