

Service.

Workshop Manual Audi 100 1991 ►

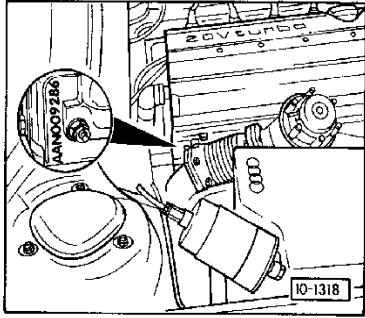
Engine code	AAN				
Booklet 5 Cyl. F.I. engine (4-valve, turbo) Mechanics					

Edition 07.91

Service Department. Technical Information

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TECHNICAL DATA

◀ ENGINE CODE

Engine code and serial number are stamped on right-hand side at rear of cylinder head.

00-1

LIST OF ENGINES

<u>Engine code</u>	<u>AAN</u>	<u>Engine code</u>	<u>AAN</u>
Engine characteristics			
Manufactured	from 07/91 to -	Valve timing for 1 mm valve lift and 0 mm valve clearance:	
No. of cylinders	5	Inlet opens after TDC	3°
Displacement	ltr. 2.226	Inlet closes after BDC	25°
Output	kW/rpm 169/5900	Outlet opens before BDC	42°
Torque	Nm/rpm 350/1950	Outlet closes before TDC	9°
Bore	mm dia. 81.0	RON	at least 95
Stroke	mm 86.4	Fuel injection system	Motronic
Compression ratio	9.3	Exhaust gas recirculation	---
		Catalyst	2 x
		Lambda control	x
		Exhaust-gas turbocharger	x
		Vehicle especially tuned for:	Low pollutant exhaust

00-2

REMOVING AND INSTALLING ENGINE

RULES FOR CLEANLINESS

- o Thoroughly clean all unions and surrounding areas before disconnecting:
- o Place removed parts on clean surface and cover with film or paper. Do not use fluffy cloths!
- o Carefully cover or seal opened components if repairs cannot be carried out immediately.
- o Only install clean parts.
 - Only unpack replacement parts immediately prior to installation.
 - Do not use parts that have been stored loose (e.g. in tool boxes etc.).
- o When fuel system is open:
 - Do not work with compressed air if avoidable.
 - Do not move vehicle unless absolutely necessary.

SAFETY MEASURES

In order to avoid injuries to persons and/or destruction of ignition and fuel injection system, observe following:

- o Only disconnect and connect wires of Motronic ignition and fuel injection system, and measuring wires, with ignition switched off.

10-1

REMOVING:

- o Engine is removed upward without gearbox.
- o All cable ties removed or cut open during engine removal must be refitted in same location when installing.

Important!

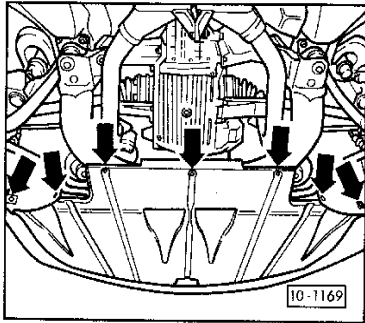
If radio with anti-theft security coding is fitted, ascertain code number before disconnecting battery.

- Disconnect battery earthing strap.

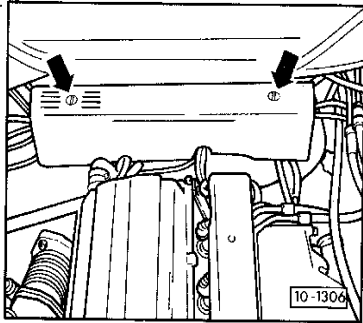
Note:

On vehicles without fresh air filter or air conditioner, battery is located in plenum chamber on right. On vehicles with fresh air filter or air conditioner, it is installed under rear seat cushion.

10-2

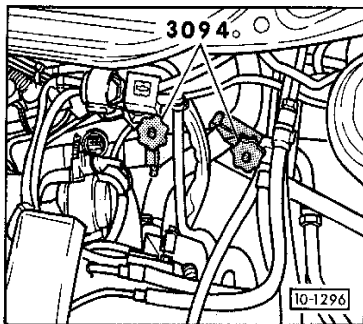


- ◀ - Remove noise insulation -arrows-. Disengage additional front retaining clips in centre of noise insulation.
- Remove front bumper - see Workshop Manual Audi 100 "General Body Repairs", Repair Group 63.
- Remove lock carrier plate - see Workshop Manual Audi 100 "General Body Repairs", Repair Group 50.
- Position oil catch pan VW 1306 under engine compartment.
- Open plug on coolant expansion tank.

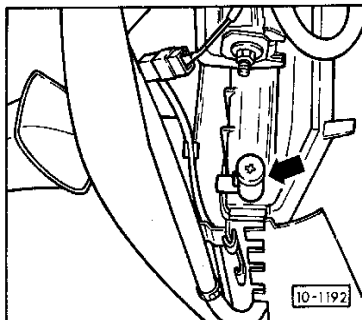


- ◀ - Turn quick fasteners -arrows- on connector cover on rear engine compartment bulkhead 90° to left and remove cover.

10-3

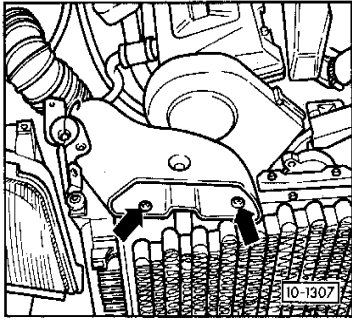


- ◀ - Plug water hoses to heater with special hose clamps 3094.

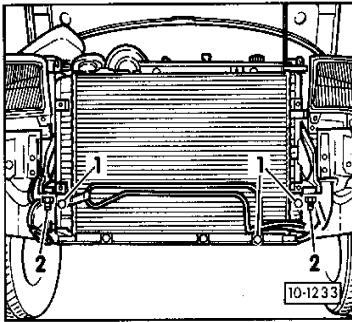


- ◀ - Drain coolant at cooler -arrow-, pushing auxiliary hose onto drain cock if necessary.

10-4



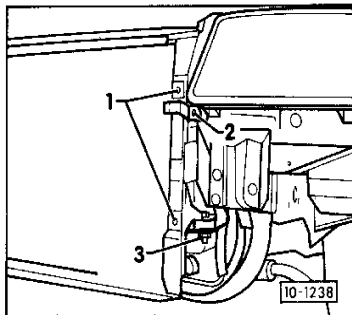
- ◀ - Unscrew right air duct at radiator -arrows- and remove.



Vehicles without air conditioner

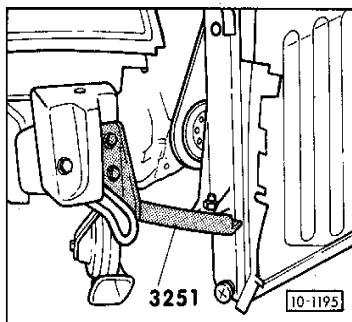
- ◀ - Remove oil cooler for hydraulic oil at radiator -1- and hang up on body (hoses remain connected).
- Disconnect water hoses at radiator.
- Remove radiator -2-.

10-5



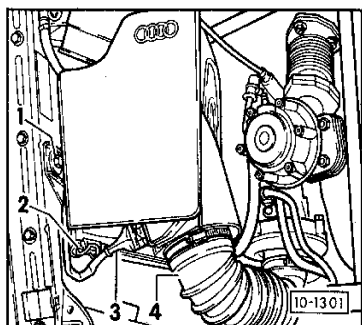
Vehicles with air conditioner

- o Radiator remains installed.
- ◀ - Unscrew bracket for trim plate -2- on right-hand vehicle side.
- Unscrew right and left radiator attachment -3-.
- Unscrew left air guide at radiator -1-.

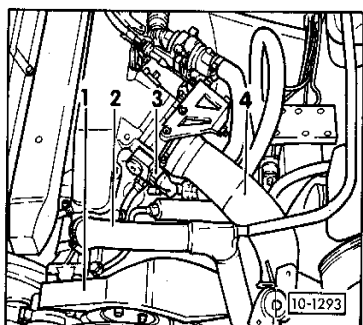


- ◀ - Attach support device 3251 to right-hand bumper bracket and swing radiator forward.

10-6

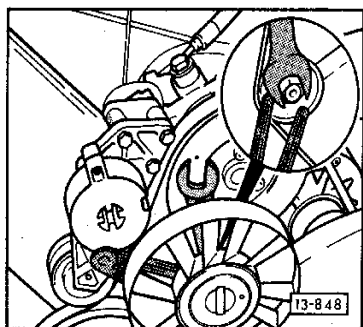


- ◀ - Disconnect air hose between air volume sensor and turbocharger -4- at air volume sensor.
- Pull off connector at air volume sensor -3-.
- Unscrew retaining bolt -1-.
- Loosen four spring clips -2-.
- Remove upper section of air cleaner housing and filter.
- Disconnect intake hose and take out lower section of air cleaner housing.

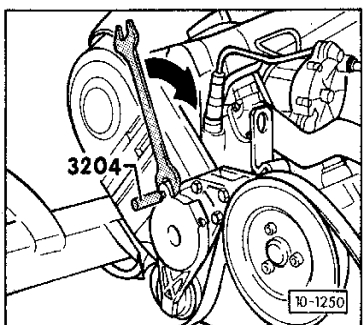


- ◀ - Disconnect upper hose to radiator -2- at radiator and coolant manifold and put aside. T-piece to expansion tank remains connected.
- Pull off cover -1- above ribbed belt.
- Pull off connector at throttle valve switch -3-.
- Remove air hose -4-.

10-7



- ◀ - Unscrew viscous fan. Use spanner wrench 3212 to brace.
- Loosen bolts on belt pulley of vane pump for power steering.



- ◀ - Slacken ribbed belt by turning tensioning device in direction of arrow with open-end spanner and inserting pin 3204 into hole.
- Remove ribbed belt.
- Remove belt pulley of vane pump for power steering.
- Take hose to vane pump out of bracket on left engine mount.
- Remove vane pump for power steering and set aside in engine compartment. Hoses remain connected.

10-8