



**Important!**

Please give copies to all  
your VW Technicians

# Technical Bulletin

Subject: Exhaust Smoke, Intermittently Visible

Group: 23

Number: 99-01

Model(s): Passat with 1.9L TDI  
(Engine Code 1Z)

1996

Date: June 25, 1999

Supersedes T.B. Group 23 Number 97-02 dated Feb. 19, 1997

## Condition

Visible smoke from exhaust system when accelerating (e.g., taking off from a stop or when shifting gears).

### **Note:**

*Condition is intermittent.*

## Production

New Engine Control Module (ECM) and injectors installed beginning m.y. 1997.

## Service

- Injection timing must be correct, check using VAG1551 Scan tool (see start of injection, dynamically checking and adjusting in group 23 of Repair Manual, 1.9 L TDI OBDII Diesel Injection & Glow Plug System).

If timing is correct and condition still exists:

- Replace ECM with Part No.: 028 906 021GQ (Control Module must be coded, see page 2)
- Replace injectors 1, 2, and 4 with Part No: 028 130 202P
- Replace injector No. 3 with Part No: 028 130 202Q
- Replace injector sealing washers Part No: 046 130 219A

### **Note:**

*Always replace injector sealing washers between cylinder head and injector.*

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### CAUTION!

*Part numbers are for reference only. Always check with your Parts Dept. for the latest parts information.*

- Connect VAG 1551 Scan Tool.
- Switch ignition on.
- Press buttons -0- and -1- to select "Engine Electronics" address word 01.

If the appropriate vehicle code is not displayed or if the ECM has been replaced, code the ECM as follows:

- ◀ Indicated on display.
  - Press buttons -0- and -7- to select "Code Control Module" function 07.
  - Press -Q- button to confirm input.
- ◀ Indicated on display.
  - Input Control Module coding "00002".
  - Press -Q- button to confirm input.
- ◀ VAG1551 scan tool will display the ECM identification (example only).
  - Press → button.
  - Press buttons -0- and -6- to select "End Output" function 06.
  - Press -Q- button to confirm input.
  - Switch ignition OFF and then ON again.

### Note:

*To activate the coding, switch the ignition OFF and then ON. If, after entering the valid code, the ignition is not switched OFF and ON, the DTC "ECM incorrectly coded" will be stored in DTC memory and cannot be erased.*

- Erase DTC memory.

Rapid data transfer	HELP
Select function XX	

Code Control Module	HELP
Input code number XXXXX	(0-32000)

028906021GQ 1.9I R4 EDC G00SG 0602 →	
Coding 00002	WSCXXXXX

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- Activate cruise control see “Electrical Wiring Diagrams Troubleshooting & Component Locations binder”.
- Create readiness code, see Group 01 of Repair Manual 1.9L TDI OBDII Diesel Injection & Glow Plug system.
- Remove 1551 Scan Tool.
- Start engine, check for fuel leaks.
- Road test vehicle for approx. 6 miles (10 Km) under load.

**When procedure applies to vehicles within the New Vehicle Limited Warranty, use the following:**

**Part Identifier: 2360**

**Labor Operation: 2360716 100TU**