

Basic Setting (function 04)

With ignition on and engine at standstill, the following operations can be performed using "function 04", basic setting:

- ◆ Adapt throttle valve control module to Engine Control Module (ECM) ⇒ Display group 060 (⇒ [Page 24-142](#))
- ◆ Vehicles with automatic transmission:
Adaptation of kick down function of accelerator pedal position sensor to ECM ⇒ Display group 063 (⇒ [Page 24-161](#))

With ignition on and engine running, the following operations can be performed using basic setting:

- ◆ Adaptation of oxygen sensor control ⇒ [Page 24-83](#)
- ◆ Troubleshooting via targeted activation and deactivation of oxygen sensor control ⇒ Display group 099. For this, observe notes on page ⇒ [Page 24-79](#) .

Test requirements for operations with engine running:

- No DTCs in DTC memory.
- Coolant Temperature at least 80 ° C.
- Electrical consumers switched off (radiator fan must NOT run during test).
- A/C switched off.

Test sequence

- Connect VAS5051 tester or VAG1551 scan tool and select the control module for engine electronics using "address word" 01 ⇒ [Page 01-9](#) .

Engine must run at idle for this.

- Check DTC Memory ⇒ [Page 01-15](#) . There must not be any DTCs stored, repair malfunctions if necessary, erase DTC memory, switch engine off and start again, road test vehicle and check DTC memory again as a control measure.

Depending on desired operation:

- Switch ignition on.

or

- Start engine.

Rapid data transfer	HELP
Select function XX	

↖ When indicated on display:

- Press buttons -0- and -4- to select "Initiate basic setting" and press -Q- button to confirm input.

Initiate basic setting	Q
Input display group number XXX	

↖ When indicated on display:

- Input desired display group number.

Example:

- Press buttons -0-, -0- and -0- to select "display group number 000" and press -Q- button to confirm input.

Note:

After selecting this display group number, the EVAP valve is closed and A/C compressor switched off.

Basic Setting 0	Q
1 2 3 4 5 6 7 8 9 10	

↖ Indicated on display:

Notes:

- ◆ *For display group number 000, measured values are displayed as a decimal.*
- ◆ *Display can be printed out on the paper roll when printer is switched on.*
- ◆ *To switch to a different display group, proceed as follows:*

Display group	VAG1551 Scan Tool (ST)	VAS5051 tester
higher	Press button -3-	Press s button.
Lower	Press button -1-	Press t button.

- Let engine run at idle for a few minutes, coolant temperature at least 80 °C.
- If specified values are obtained in all display fields, press → button.

Rapid data transfer

HELP

Select function XX



Indicated on display (function selection):

01-70

Display group 000 (indicated values decimal)												
• Engine running at idle (Coolant Temperature not less than 80 ° C)												
1	2	3	4	5	6	7	8	9	10	◀ Display fields	Specified value	represents
Adaptation value of mixture preparation, bank 2										77 to 179	-10 to 10 %	
Adaptation value of mixture preparation, bank 1										77 to 179	-10 to 10 %	
Control value of mixture preparation, bank 2 (road test vehicle if outside of tolerance)										115 to 141	-10 to 10 %	
Control value of mixture preparation, bank 1 (road test vehicle if outside of tolerance)										115 to 141	-10 to 10 %	
Adaptation value, torque loss at idle:										102 to 169	-5 to 8 %	
Idle torque										102 to 154	-5.0 to 5.0 %	
Throttle valve angle										0 to 8	0 to 3.0 %	
Engine speed (idle speed)												
• Front Wheel Drive Vehicles										72 to 82	720 to 820 RPM	
• All-Wheel Drive Vehicles										63 to 73	630 to 730 RPM	
Engine load (without consumers)										16 to 34	12 to 26 %	
Engine Coolant Temperature (requirement for basic setting)										180 to 205	80 to 105 ° C	