

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 24-121](#))
- ◆ Vehicles with automatic transmission:
Adaptation of kick down function of accelerator pedal position sensor to ECM ⇒ Display group 063 (⇒ [Page 24-139](#))

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

- ◆ Adaptation of oxygen sensor control ⇒ [Page 24-74](#)

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.
- Vehicles with automatic transmission Selector lever in P or N.

Test sequence

- Connect VAS5051 tester or VAG1551 scan tool and select control module for engine electronics using "address word" 01 ⇒ [Page 01-10](#) . Ignition must remain switched on.

or, depending on desired operation:

- Start engine.



When indicated on display

Rapid data transfer

HELP

Select function XX

Basic Setting Q
Enter display group number XXX

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



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

System in basic setting 0										Q
1	2	3	4	5	6	7	8	9	10	

↖ Indicated on display

Note:

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

Display group	VAG1551 Scan Tool	VAS5051 tester
higher	Press button -3-	Press ▲ button.
Lower	Press button -1-	Press ▼ button.

- If specified values are obtained in all display fields, press → button.

Rapid data transfer	HELP
Select function XX	

↖ Indicated on display (function selection)

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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 formation, partial throttle										103 to 153	-10 to 10%	
Adaptation value of mixture formation, closed throttle (idle)										78 to 178	-10 to 10%	
Control value of mixture formation										103 to 153	-10 to 10%	
Adaptation value, torque loss at idle:										113 to 143	-3 to 3%	
Torque at idle										106 to 189	-4.3 to 12.2%	
Throttle valve angle										1 to 7	0.4 to 2.75%	
Vehicle voltage										142 to 206	10 to 14.5 V	
Engine speed (idle speed)												
• Front Wheel Drive (FWD)										74 to 86	740 to 860 RPM	
• All Wheel Drive (AWD)										80 to 92	800 to 920 RPM	
Engine load (without consumers)										21 to 39	15 to 33%	
Engine Coolant Temperature (requirement for basic setting)										180 to 205	80 to 105 ° C	