

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 24-125](#))
- ◆ Vehicles with automatic transmission:
Adaptation of kick down function of accelerator pedal position sensor to ECM ⇒ Display group 063 (⇒ [Page 24-145](#))

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

- ◆ Adaptation of oxygen sensor control ⇒ [Page 24-75](#)

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 ⇒ [Page 01-7](#) and select vehicle system "01 - Engine electronics". Ignition must remain switched on for this.

or, depending on desired operation:

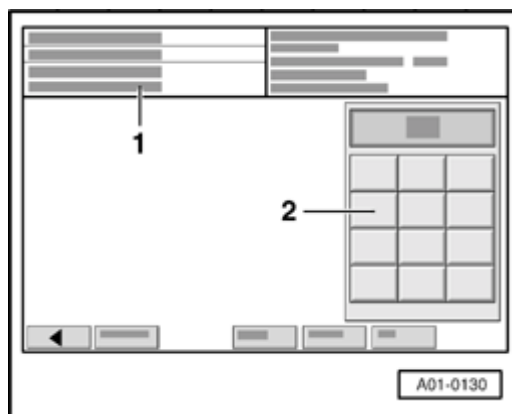
- Start engine.



Display on VAS5051:

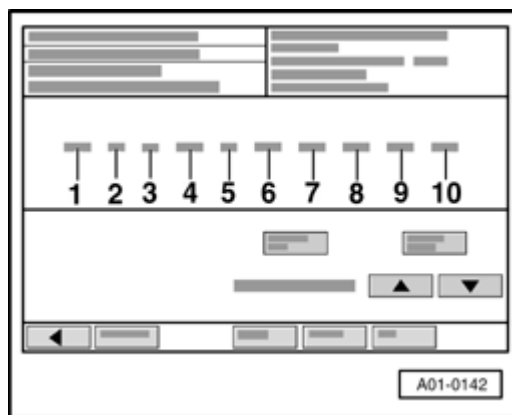
- In selection -1-, click on the diagnostic function "04 - Basic setting".

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➤ Display on VAS5051:

- 1 - Enter display group Max. input value = 255
- Enter desired 3-digit display group number in button field -2- and press -Q- button to confirm input.

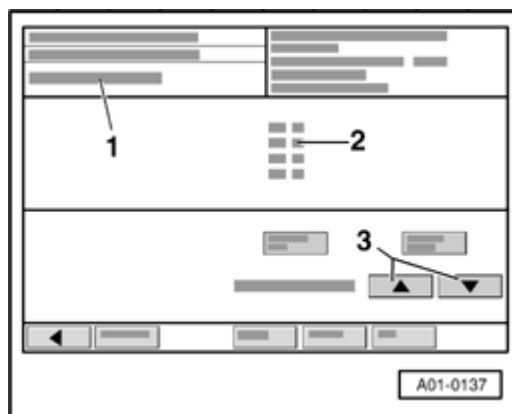


➤ Indicated on VAS5051 for display group 000:

- 1 - Display group 0
- 2 - Display field 1 2 3 4 5 6 7 8 9 10

Note:

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



➤ Indicated on VAS5051 for display group 001 to 255:

1 - Display group X System in basic setting

2 - Display field 1

Display field 2

Display field 3

Display field 4

Notes:

◆ For display group number 000, measured values are displayed as a decimal.

◆ To switch to a different display group, proceed as follows:

Display group	VAS5051 tester
higher	Press ▲ button.
Lower	Press ▼ button.

- End function "04 - Basic setting" by pressing ◀ button.

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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 207	10 to 14.5 V
										Engine speed (idle speed)		
										• Front Wheel Drive (FWD)	74 to 86	740 to 860 RPM
										• All Wheel Drive (AWD)	76 to 88	760 to 880 RPM
										Engine load (without consumers)	17 to 40	13 to 30%
										Engine Coolant Temperature (requirement for basic setting)	180 to 205	80 to 105 ° C