

Procedure for coding instrument cluster & ...:

## **Coding control unit 05.01 >**

Using this function the dash panel insert can be coded as follows:

- ◆ Optional equipment
- ◆ Country variants
- ◆ Service intervals
- ◆ Code number for distance impulse number

### **Notes:**

*For vehicles from 05.00 >the coding for number of cylinders has been discontinued.*

*The codes given in the code table apply only to*

- ◆ Golf 05.01 >
- ◆ Bora 05.01 >
- ◆ Golf Estate 05.01 >
- ◆ Bora Estate 05.01 >

### **Performing coding**

- Connect fault reader V.A.G 1551, select operating mode 1 "Rapid data transfer", switch on ignition and enter address word 17 "Dash panel insert".

After displaying the control unit identification and the immobilizer identification number:

- Press ⇒ key.

Rapid data transfer Select function XX	HELP
---	------

⇔ Indicated on display:

- Press keys 0 and 7. (The function "Code control unit" is selected with 07.)

Rapid data transfer 07 - Code control unit	Q
---	---

⇔ Indicated on display:

- Confirm entry with key Q.

### Performing coding

Coding control unit Enter code number XXXXX	(0-32000)
--	-----------

⇔ Indicated on display:

- Enter code number compiled from code table

Breakdown of code number:

---

01				Code number for extra equipment
	4			Code number for country variant
		0		Code number for service intervals (ESI)
			3	Code number for distance impulse number (K number)

---

### Code table:

**Code number**

**Settings**

**Code number for extra equipment <sup>1)</sup>**

**Code number for country variants**

1 +2	3	4	5	Position
00				No extra equipment active
01				Brake pad wear indicator active
02				Belt warning active
04				Wash fluid warning active
16				Navigation
	1			Europe (EU)
	2			USA (US)
	3			Canada (CAN)
	4			Great Britain (GB)
	5			Japan (JP)
	6			Saudi Arabia (SA)
	7			Australia (AUS)

**Code number for service intervals<sup>3)</sup>****Code number for distance impulse number (K number)<sup>2)</sup>**

		0 1 2 3		Vehicles with fixed service intervals without oil level/temperature sender -G266-; PR No.: QG0 Vehicles with flexible service intervals (ESI) with oil level/temperature sender -G266-; PR No.: QG1 Vehicles with fixed service intervals with oil level/temperature sender -G266-; PR No.: QG2 Vehicles without service interval display (USA, Canada)
			1 2 3 4	4345 3528 4134 3648

1) If more than one item of optional equipment is to be entered, then the code numbers must be added together.

Example:

Brake pad wear indicator and washer fluid warning:

$$01 + 04 = 05$$

2) The code number for the distance impulse number is dependent on vehicle engine/gearbox combination:

Engine/gearbox combinations:	Code number:
1.4 ltr. / 55 kW with manual gearbox	1
1.6 ltr. / 74 kW with manual gearbox	3
1.6 ltr. / 77 kW with manual gearbox	3
1.9 ltr. / 50 kW- SDI with manual gearbox	3
1.9 ltr. / 81 kW- TDI with manual gearbox, gearbox code 02M	4
All engines with 6-speed manual gearboxes, (including four-wheel drive)	4
All engines 5-speed automatic gearboxes	4
All other engine/gearbox combinations	2

**Notes:**

◆ The distance impulse number is a constant used to calculate the speed and distance travelled.

2)The following adaption values are programmed by the service interval code number:

Chan- nel	Code number			3
	0	1	2	
43	15	30 (petrol) 50 (diesel)	15	not active
44	365	730	365	not active
45	not active	the value stored currently is retained!	1	not active
42	not active			not active
45	not active			not active
46	not active			not active
47	not active			not active
48	not active			not active
40	the value stored currently is retained!			not active
41				not active

Coding control unit Q  
Enter code number 01042 (0-32000)

⇔ Indicated on display:

- Confirm entry with key Q.

1J020820A A4 COMBI INSTR VDO V10 ⇒  
Coding 01042 WSC 00000

⇔ Indicated on display:

- Press ⇒ key.

IMMO-IDENT No.: VWZ7Z0V0066808 ⇒

⇔ Indicated on display:

- Press ⇒ key.

Rapid data transfer HELP  
Select function XX

⇔ Indicated on display:

Ending function:

- Press keys 0 and 6. (The function "End output" is selected with 06.)

Rapid data transfer Q  
06 - End output

⇔ Indicated on display:

- Confirm entry with key Q.

## Adapting service interval data when changing the dash panel insert

When changing the dash panel insert the current service interval data readings for

- ◆ the distance travelled since the last inspection
- ◆ the time elapsed since the last inspection
- ◆ the upper limit for the distance until the next inspection
- ◆ the upper limit for the time until the next inspection

and, for dash panel inserts in vehicles with flexible service intervals (LongLife Service),

- ◆ the value for the engine oil quality
- ◆ the value for the total fuel consumption (only petrol engine)
- ◆ the value for the carbon content of oil (only diesel engine)
- ◆ the value for the oil quantity used (only diesel engine)

must be transferred to the vehicles new dash panel insert.

- The data must be read off before exchanging the defective dash panel insert.
- When the adaption is finished the diagnostic interface for data bus must be coded =>page [01-299](#).

### **Note:**

- ◆ If the data cannot be read off (defective dash panel insert) the data from the vehicle service schedule must be entered.
- Connect fault reader V.A.G 1551, select operating mode 1 "Rapid data transfer", switch on ignition and enter address word 17 "Dash panel insert".



After displaying the control unit identification and the immobilizer identification number:

- Press ⇒ key.

Rapid data transfer  
Select function XX      HELP

⇔ Indicated on display:

- Press keys 1 and 0. (10 selects the "Adaption" function.)

Rapid data transfer  
10 - Adaption      Q

⇔ Indicated on display:

- Confirm entry with key Q.

Adaption  
Enter channel number XX

⇔ Indicated on display:

- Select channels to be adapted individually according to table and confirm selection with key Q:

**Adaption table: SID**

<b>Adaption channel</b>	<b>Service type</b>
10	service OEL (or OIL)
11	service INSP
12	service INSP

**Adaption table: ESI**

Adaption channel	Meaning	Step size
43	Upper limit for distance to next inspection	1000 km
44	Upper limit for time to next inspection	1 day
45	Engine oil quality: ◆ Vehicles with fixed service intervals (PR No.: QG0 and PR No.: QG2): ◆ Entry value: 00001 ◆ Vehicles with petrol engine and flexible service intervals (PR No.: QG1): ◆ Entry value: 00002 ◆ Vehicles with 6-cyl. Diesel engine and flexible service intervals (PR No.: QG1): ◆ Entry value: 00003 ◆ Vehicles with Diesel engine and flexible service intervals (PR No.: QG1): ◆ Entry value: 00004	
40	Distance travelled since the last inspection	100 km
41	Time elapsed since the last inspection	1 day
46	Total fuel consumption (only petrol engine)	1 litres
47	Carbon content of oil (only diesel engine)	100 km
48	Oil quantity used (only diesel engine)	100 km

**Notes:**

- ◆ Entering an adaption value for engine oil quality is only possible with dash panel inserts having flexible service intervals; for valid entry values see

=> Maintenance booklet

- ◆ When the service interval display is adapted, first the channels 43, 44 and 45 must be adapted, because the values of channels 40 and 41 may not be greater than the upper limits of channels 43 and 44.

- ◆ The currently valid upper limits for distance and time until inspection can be found in the service schedule.

=> Maintenance booklet

- ◆ Specifications for engine oil quality:  
Petrol engines 50300  
Diesel engines 50600

=> Maintenance booklet

- ◆ The adaption value must be entered with 5 digits (e.g. 00030 for adaption value 30, which equates to an upper distance limit of 30000 km to next service).
- ◆ The adaption sequence must also be carried out using kilometres for dash panel insert with display in miles. The mileage values must be converted to kilometre values (1 mile equates to approx. 1.609 kilometres).
- ◆ The number of days in one year is 365 (leap years are not considered).
- ◆ The adaption can be interrupted with the "C" key of the V.A.G 1551

**Example:**

From the defective dash panel insert (or the service schedule), it has been determined that the vehicle has been driven a total distance of 6000 km since the last inspection. The customer has driven this distance in 170 days. The engine of the vehicle was filled with oil conforming to specification 50600 during the last service.

The adaption channels 10, 11 and 12 for SID or 43, 44, 45, 40 and 41 for ESI must be adapted in the new dash panel insert so that the following adaption values are attained:

Channel 10:  $15000 \text{ km} - 6500 \text{ km} = 9000 \text{ km}$   
(Adjustment figure 9)

Channel 11:  $30000 \text{ km} - 6000 \text{ km} = 24000 \text{ km}$   
(Adjustment figure 24)

Channel 12:  $370 \text{ days} - 170 \text{ days} = 200 \text{ days}$   
(Adjustment figure 20)

**Note:**

*Because the time counter accuracy equates to 10 days, a year when rounded up equates to 370 days.*

Channel 43: Upper limit for distance  
to next inspection  
=> Adaption value 30 (30 x 1000 km = 30000 km)

Channel 44: Upper limit for time  
to next inspection  
=> Adaption value 730 (730 x 1 day = 730 days)

Channel 45: Quality of oil in engine  
=> Adaption value 4 (= very good)

Channel 40: Last inspection 6000 km ago  
=> Adaption value 60 (60 x 100 km = 6000 km)

Channel 41: Last inspection 170 days ago  
=> Adaption value 170 (170 x 1 day = 170 days)

Indicated on new dash panel insert display after entering channel number 43:

Channel 43	Adaption	0	⇒
max. val. oil in 1000 km			

⇐ Dash panel insert VDO:

- Press ⇒ key.

Channel 43	Adaption	0
Enter adaption value XXXXX		

⇐ Indicated on display:

- Enter new adjustment figure.

Indicated on display after entering adaption value 30:

Channel 43 max. val. oil in 1000 km	Adaption	30	Q
--	----------	----	---

⇐ Dash panel insert VDO:

Channel 43 Save modified value?	Adaption	30	Q
------------------------------------	----------	----	---

⇐ Indicated on display:

- Confirm entry with key Q.

Channel 43 Modified value is saved	Adaption	30	⇒
---------------------------------------	----------	----	---

⇐ Indicated on display:

- Press ⇒ key.

Rapid data transfer Select function XX			HELP
---	--	--	------

⇐ Indicated on display:

- After adapting channel 43 press keys 1 and 0 again. (10 selects the "Adaption" function.)

Rapid data transfer 10 - Adaption			Q
--------------------------------------	--	--	---

⇐ Indicated on display:

- Confirm entry with key Q and then enter adaption values for channels 44, 45, 40, 41, 46, 47 and 48 in same manner.

End output after entering these channels:

- Press keys 0 and 6. (The function "End output" is selected with 06.)

Rapid data transfer 06 - End output			Q
--	--	--	---

⇐ Indicated on display:

- Confirm entry with key Q.

Rapid data transfer Enter address word XX			Help
--	--	--	------

⇐ Indicated on display:

- Switch off ignition.

- Separate connection to fault reader V.A.G 1551.

## Adapting distance travelled (odometer) display

### Notes:

- ◆ The total distance travelled by the vehicle can be read off the defective dash panel insert or determined using the service schedule.
- ◆ The total distance travelled on display of new dash panel insert must not be more than 100 km before the adapting.
- ◆ The total distance travelled to be transferred to the new dash panel insert must exceed 100 km.
- ◆ Adapting the total distance travelled is only possible once and only in a positive direction.
- ◆ The adaption can be interrupted with the "C" key of the V.A.G 1551
- ◆ Correcting a false entry which has been confirmed is not possible. The dash panel insert must be exchanged for a new one.
- ◆ The adaption must take place in kilometres for countries with display in miles. Therefore convert adaption value from miles to kilometres.

### Example:

The defective dash panel insert has an odometer display of 89627 km.  
The odometer display can be transferred to the new dash panel insert as follows:

- Connect fault reader V.A.G 1551, select operating mode 1 "Rapid data transfer", switch on ignition and enter address word 17 "Dash panel insert".
- Confirm entry with Q key.

Rapid data transfer  
Select function XX

HELP

↔ Indicated on display:

- Press keys 1 and 0. (10 selects the "Adaption" function.)

Rapid data transfer  
10 - Adaption Q

- ⇐ Indicated on display:
- Confirm entry with key Q.

Adaption  
Enter channel number XX

- ⇐ Indicated on display:
- Press keys 0 and 9.
- Confirm entry with key Q.

Channel 9                  Adaption                  0                  ⇒

- ⇐ - Indicated on display:
- Move programme on with ⇒ key.

Channel 9                  Adaption                  0                  XXXXX  
Enter adaption value

- ⇐ Indicated on display:
- Enter adaption value using keyboard.

The last position of the kilometre reading must be rounded off to the nearest 10 km. A kilometre reading of 89627 produces an adaption value of:

0 8 9 6 3

X					Hundred thou.: 100000 ... 655350 km
	X				Ten thousands: 10000 ... 90000 km
		X			Thousands: 1000 ... 9000 km
			X		Hundreds: 100 ... 900 km
				X	Tens: 10 ... 90 km
					Units: round up to next ten

- Enter adaption value using keyboard.

Channel 9                  Adaption                  0                  Q  
Enter adaption value                  08963

- ⇐ Indicated on display:
- Confirm entry with key Q.

Channel 9	Adaption	8963	Q
-----------	----------	------	---

⇔ Indicated on display:

The kilometre reading entered now appears in the display of the dash panel insert.  
If the displayed kilometre reading is not OK, e.g. false entry:

- Press C key and enter correct adaption value again.

If the displayed kilometre reading in dash panel insert is OK:

- Confirm entry with key Q.

Channel 9	Adaption	8963	Q
Save modified value?			

⇔ Indicated on display:

- Confirm entry with key Q.

Channel 9	Adaption	8963	⇒
Modified value is saved			

⇔ Indicated on display:

- End adapting the distance travelled with ⇒ key.

Rapid data transfer	HELP
Select function XX	

⇔ Indicated on display:

- Press keys 0 and 6. (The function "End output" is selected with 06.)

Rapid data transfer	Q
06 End output	

⇔ Indicated on display:

- Confirm entry with key Q.

Rapid data transfer	Help
Enter address word XX	

⇔ Indicated on display:



## Adapting language variants for driver information

Language variants for driver information can be adapted only on Midline and Highline dash panel inserts.

- Connect fault reader V.A.G 1551, select operating mode 1 "Rapid data transfer", switch on ignition and enter address word 17 "Dash panel insert".

After displaying the control unit identification.

- Press ⇒ key.

Rapid data transfer Select function XX	HELP
---	------

⇔ Indicated on display:

- Press keys 1 and 0. (10 selects the "Adaption" function.)

Rapid data transfer 10 - Adaption	Q
--------------------------------------	---

⇔ Indicated on display:

- Confirm entry with key Q.

Adaption Enter channel number XX	
-------------------------------------	--

⇔ Indicated on display:

- Press keys 0 and 4.
- Confirm entry with the Q key.

Channel	4	Adaption	1	⇒
	(- 1	3-L		

⇔ Indicated on display:

### Notes:

- ◆ Only the last character of the five position language variant code is shown on the display, e.g. 1 for German!
- ◆ A false entry terminates "Adaption" and it must be restarted with function "10 - Adaption"!

◆ Using the keys of the fault reader it is not possible to enter the code direct or in stages!

**Code table:**

Code	Language variants
00001	German
00002	English
00003	French
00004	Italian
00005	Spanish
00006	Portuguese
00008	Czech

Staged entry:

- The coding can be decreased with key 1 and increased with key 3, e.g. to 2 for language variant English.

Channel	4	Adaption	2	Q
	(- 1	3-L		

⇔ Indicated on display:

- Confirm entry with the Q key.

Channel	4	Adaption	2	Q
Store amended value?				

⇔ Indicated on display:

- Confirm entry with the Q key.

Channel	4	Adaption	2	⇒
Amended value is stored				

⇔ Indicated on display:

- End adapting language variant with ⇒key.

Rapid data transfer				HELP
Select function XX				

⇔ Indicated on display:

Direct entry:

- Press ⇒key.

Channel	4	Adaption	1	
Enter adaption value				XXXXX

⇔ - Indicated on display:

- Enter desired 5 position code using keyboard => page [01-273](#).

Example:

Coding: 2 (English)

Input value: 00002

- Confirm entry with the Q key.

Channel	4	Adaption	1	Q
Enter adaption value				00002

⇔ - Indicated on display:

- Confirm entry with the Q key.

Channel	4	Adaption	2	Q
Store amended value?				

⇔ Indicated on display.

- Confirm entry with the Q key.

Channel	4	Adaption	2	⇒
Amended value is stored				

⇔ Indicated on display:

- End adapting language variant with ⇒key.

Rapid data transfer				HELP
Select function XX				

⇔ Indicated on display:

- Press keys 0 and 6. (The function "End output" is selected with 06.)

Rapid data transfer				Q
06 - End output				

⇔ Indicated on display:

- Confirm entry with key Q.