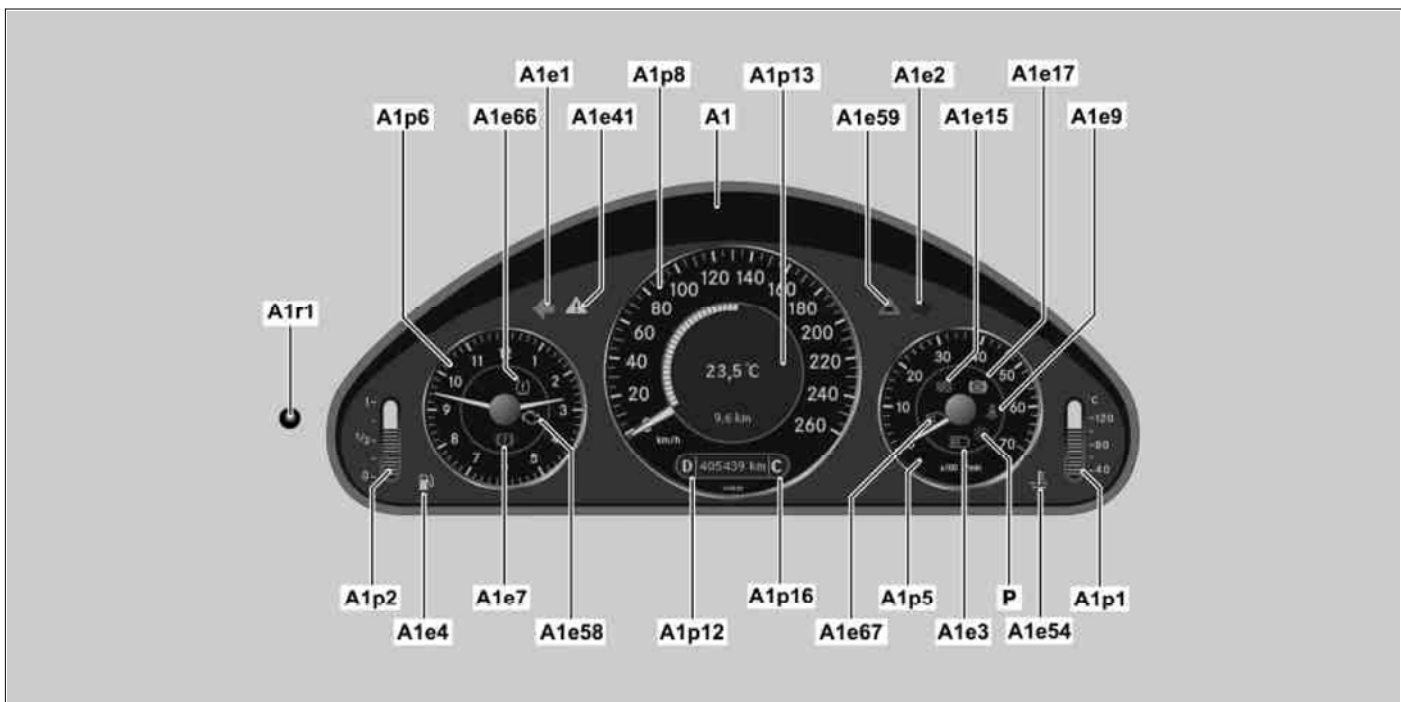


P54.30-7420-09

Illustrated up to 31.5.05

P	Phototransistor	A1e17	ABS indicator lamp	A1p5	Tachometer
A1	Instrument cluster	A1e41	ESP and ABS warning lamp	A1p6	Electronic clock
A1e1	Left turn signal indicator lamp	A1e54	Coolant temperature warning lamp	A1p8	Electronic speedometer
A1e2	Right turn signal indicator lamp	A1e58	Engine diagnosis indicator lamp	A1p12	Gear indicator
A1e3	High beam indicator lamp	A1e59	DTR warning lamp	A1p13	Multifunction display
A1e4	Fuel reserve indicator lamp	A1e66	Tire pressure monitor warning lamp	A1p16	Transmission mode display
A1e7	Brake fluid and parking brake warning lamp	A1p1	Coolant temperature display	A1r1	Instrument illumination rheostat and reset button
A1e9	Seat belt warning lamp	A1p2	Fuel level and reserve indicator		
A1e15	Airbag indicator and warning lamp				
A1e16	Preglow indicator lamp				

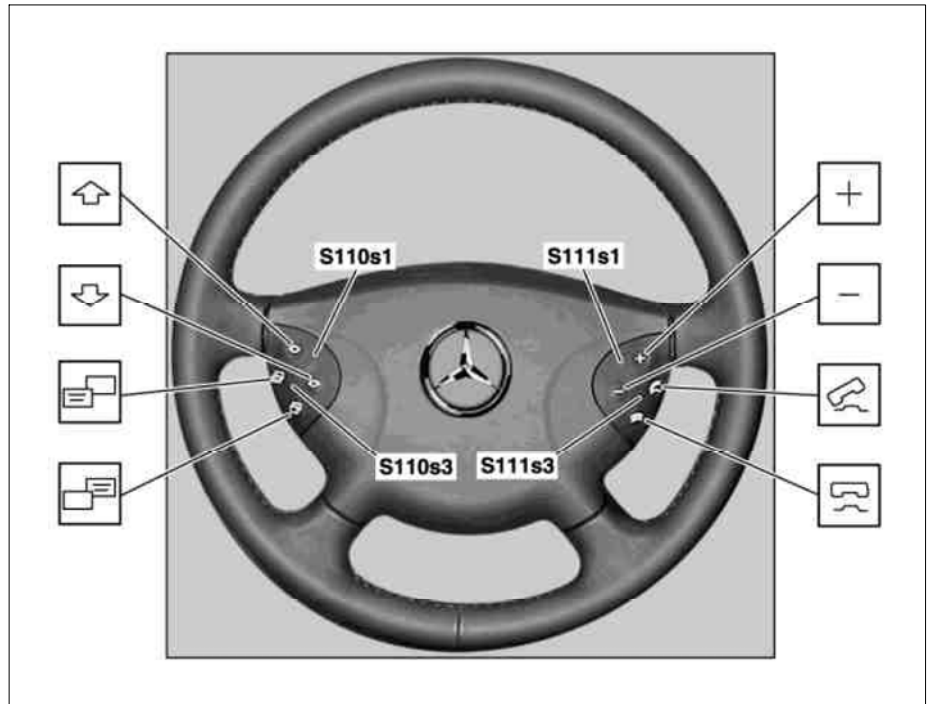


P54.30-8453-09

P	Phototransistor	A1e17	ABS indicator lamp	A1p5	Tachometer
A1	Instrument cluster	A1e41	ESP and ABS warning lamp	A1p6	Electronic clock
A1e1	Left turn signal indicator lamp	A1e54	Coolant temperature warning lamp	A1p8	Electronic speedometer
A1e2	Right turn signal indicator lamp	A1e58	Engine diagnosis indicator lamp	A1p12	Gear indicator
A1e3	High beam indicator lamp	A1e59	DTR warning lamp	A1p13	Multifunction display
A1e4	Fuel reserve indicator lamp	A1e66	Tire pressure monitor warning lamp	A1p16	Transmission mode display
A1e7	Brake fluid and parking brake warning lamp	A1e67	Low beam indicator lamp	A1r1	Instrument illumination rheostat and reset button
A1e9	Seat belt warning lamp	A1p1	Coolant temperature display		
A1e15	Airbag indicator and warning lamp	A1p2	Fuel level and reserve indicator		

Multifunction steering wheel (MFL), controls

- S110s1 Scroll forward/back button
- S110s3 System selection button
- S111s1 + and D, specific function setting and volume control button
- S111s3 Accept/terminate phone call button



P82.90-2051-06

This document covers the following points:

- D Operating the multifunction display (A1p13)
- D Call display of different systems
- D Browse within a system
- D Individual settings
- D Change settings
- D Example: Switching over from degrees centigrade to degrees Fahrenheit (up to 31.5.05)
- D Recall the factory settings
- D Call stored fault and warning messages
- D Acknowledge fault and warning messages on the multifunction display (A1p13)
- D Set brightness of lighting
- D Switch on ESP rolling test

Operating the multifunction display (A1p13)

If the instrument cluster (A1) is activated, by opening the driver's door for example, the basic display of the basic system (trip odometer and total mileage, outside temperature) always appears on the multifunction display (A1p13).

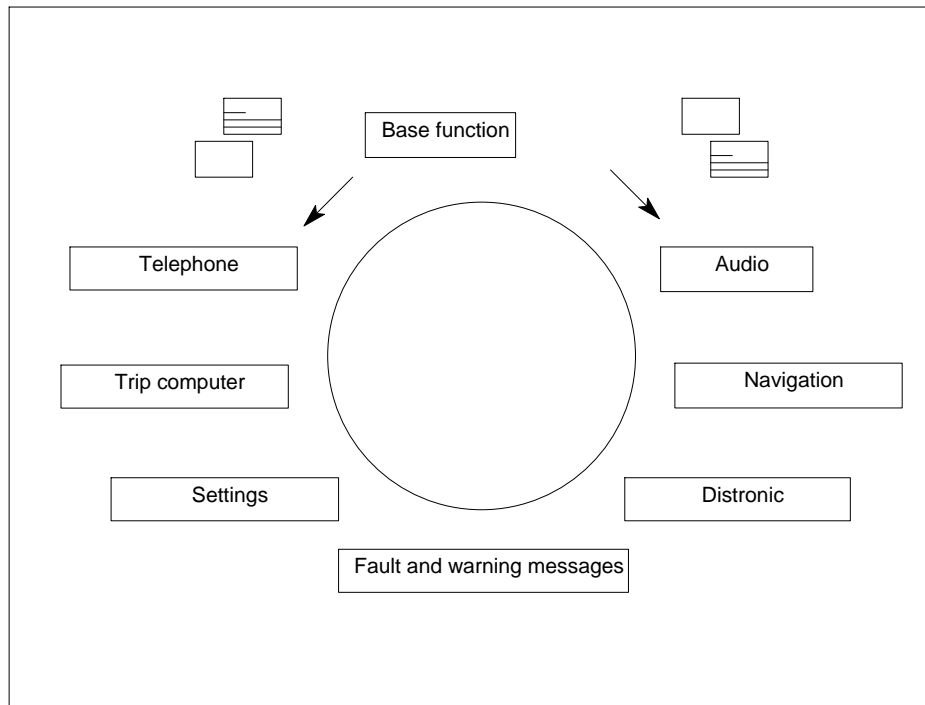
Calling up display of different systems

Function requirements:

- D Circuit 15R ON
- D No undervoltage or overvoltage

If the system selection button (S110s3) on the multifunction steering wheel (MFL) is pressed, the multifunction display (A1p13) switches over to the basic display of the next system. Once the driver has scrolled through all systems the main screen of the base function appears again.

System selection via the multifunction steering wheel using the system selection button (S110s3)



The illustration above shows the possible systems arranged in a circle. When the system selection button (S110s3) is pressed, the display always moves quickly on to the next system.

Scrolling within a system

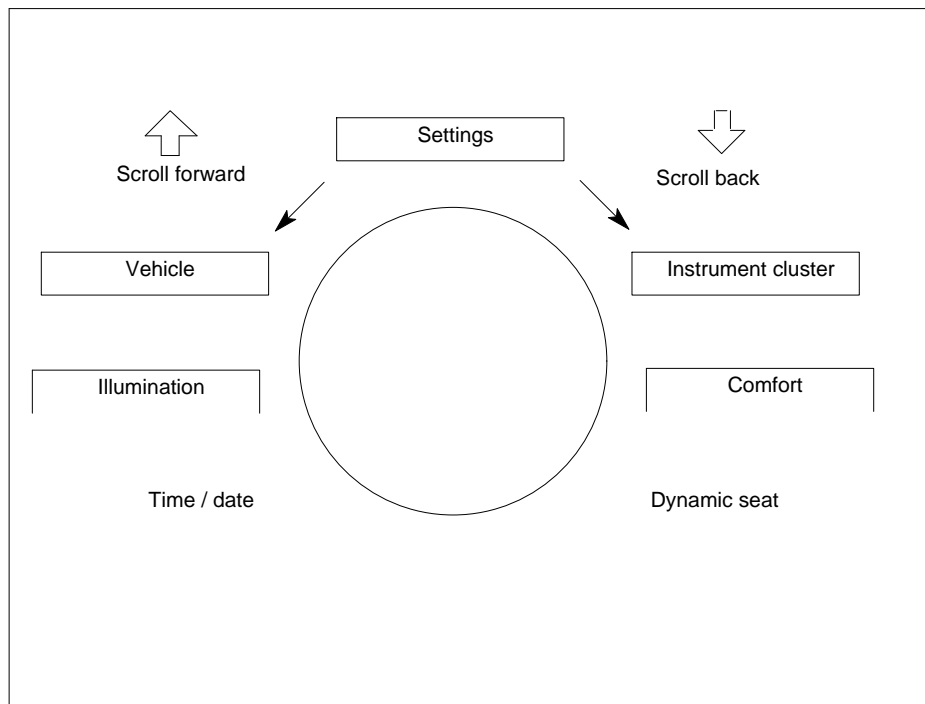
Function requirements:

- D Circuit 15R ON
- D No undervoltage or overvoltage

In addition to the main screen, most systems also feature other screens. Scrolling within a system takes place via the scroll forward/back button (S110s1) (*, #). The display moves on further each time the scroll forward/back button (S110s1) (*, #) is pressed. The display scrolls either forwards or backwards depending on which portion of the scroll forward/back pushbutton (S110s1) the driver presses (*, #).

- i** You can jump to another system from any screen by pressing the system selection button (S110s3). With the exception of the trip computer (RRE) the basic display of this system then appears. If a change is made from the previous system to the trip computer system, the display screen is always called up which was shown last with the trip computer (RRE) system.
- i** The display only shows systems and functions available in the particular vehicle. If a system is not available, it is "skipped" by pressing the system selection button (S110s3).

Overview and sequence of Menu item "Settings"



Individual settings

Function requirements:

- D Circuit 15R ON
- D No undervoltage or overvoltage

The "Settings" function allows the driver to change various presets. Various settings can be performed in the instrument cluster (A1), e.g. setting the time (hours and minutes).

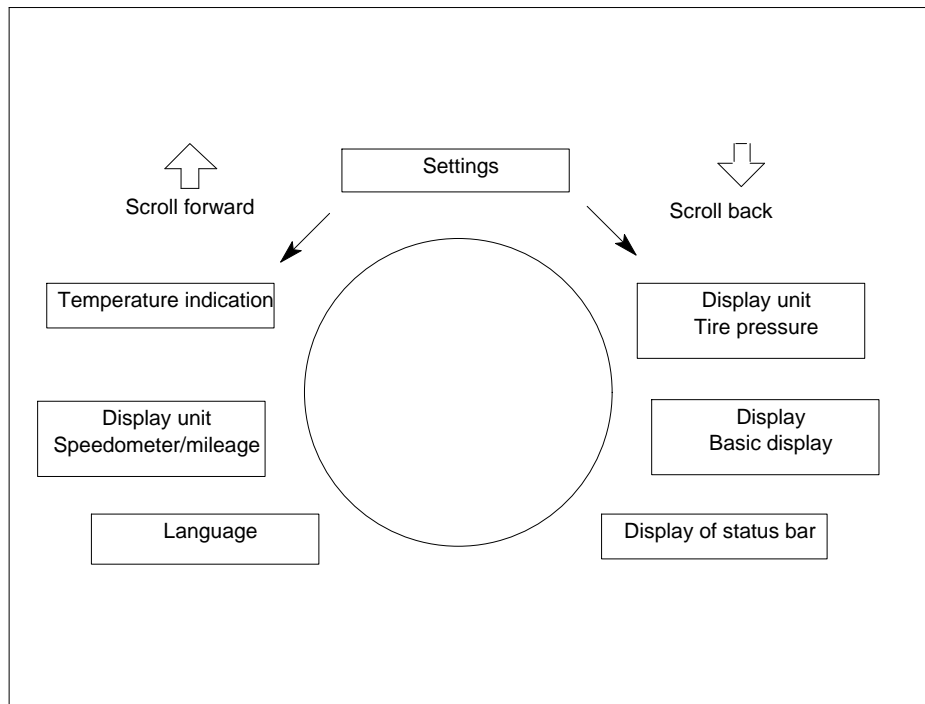
The time cannot be set if one of the following codes is available:

- D with code (494) USA version
- D with CODE (498) Japanese version
- D with code (352) COMAND operating and display system
- D with code (527) COMAND APS (with navigation)

The following settings are possible, for example:

- D Automatic door locking (ON/OFF)
- D Winter tire speed limit (160 km/h up to 210 km/h or Off)
- D Driving light switching (manual driving light, automatic driving light)
- D Ambient illumination function
- D Headlamp delayed switch-off (0 s/15 s/30 s/45 s/60 s) (up to 31.5.05) (ON/OFF) (ON = 15 s) (as of 1.6.05)
- D Locator lighting (AFB)
- D "Ambient" light

Overview and sequence of settings for the menu item "Instrument cluster"



Change setting in menu item "Instrument Cluster"

Press the system selection button (S110s3) until the "settings" function appears on the multifunction display (A1p13), go to the corresponding menu item using the scroll forward/back button (S110s1) (*, #). Press the button + and D, setting of specific functions and volume control (S111s1) towards (+) or (D) until the desired menu item is active on the multifunction display (A1p13). Press the scroll forward/back button (S110s1) (*, #) until the display of the setting to be changed appears on the multifunction display (A1p13). Press the + and -, specific function setting and volume control button (S111s1) in either the "+D" or "-D" direction until the value you require is displayed on the multifunction display. A1p13 The activated value becomes effective immediately.

Speedometer

You can switch the tachometer between miles and kilometers per hour. This changeover also affects the display of the trip computer integrated into the instrument cluster (A1). The instrument cluster (A1) sends a message on the class C (engine compartment) controller area network bus (CAN-C).

- i** The time is set automatically with the help of satellites on vehicles with the above codes.

Press the system selection button (S110s3) until the menu "Settings... reset: press reset button for 3 seconds" appears on the multifunction display (A1p13). via the scroll forward/back button (S110s1) (*, #) Go to the menu item settings. The desired menu item is selected via the + and D button, adjustment of specific functions and volume control (S111s1).

- D Interior light courtesy delay (0 s/5 s/10 s/15 s/20 s) (up to 31.5.05) (ON/OFF) (ON = 10 s) (as of 1.6.05)
- D Station search (frequency/memory)
- D Stationary heater activation time
- D Activate entry aid (OFF/steering column/steering column and seat) (up to 31.5.05) (OFF/steering column) (as of 1.6.05)
- D Parking assist mirror adjustment (ON/OFF)
- D Folding mirror, in/out (ON/OFF) (up to 31.5.05) (USA = ON, except USA = OFF) (as of 1.6.05)

Temperature display (up to 31.5.05)

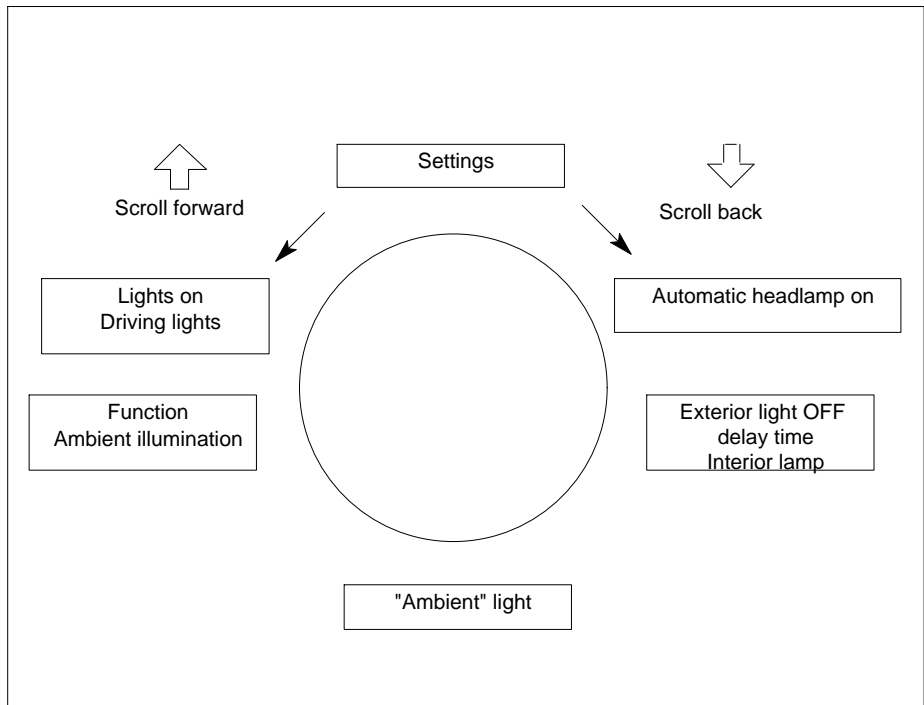
You can switch the outside temperature display between degrees Centigrade and degrees Fahrenheit. The instrument cluster (A1) also sends a message for the air conditioning on the class B (interior) controller area network bus (CAN-B).

- i** As of 1.6.05 the temperature display is established via variant coding in the central gateway control unit (N93).

Text/language

The language in which the texts appear in the instrument cluster (A1) can be selected here. The instrument cluster (A1) also places a corresponding message on CAN-B. The voice setting on the "radio" does not have an effect on the voice setting in the instrument cluster (A1).

Overview and sequence of settings in the menu item "Illumination"

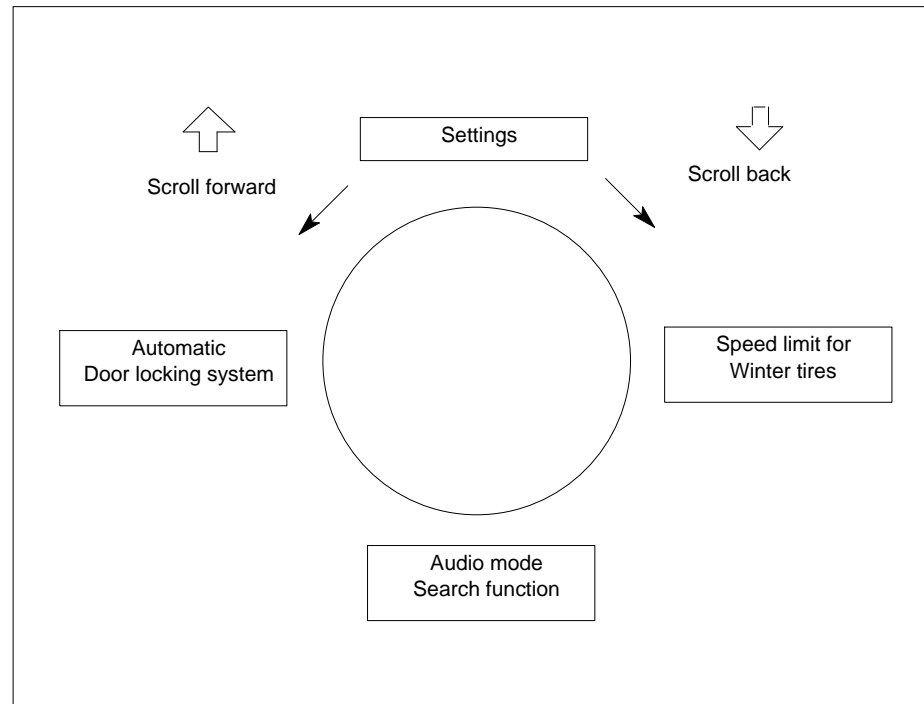


Change setting in the menu item "Illumination"

Press the system selection button (S110s3) until the "Settings" function appears on the multifunction display (A1p13), go to the corresponding menu item using the scroll forward/back button (S110s1) (*, #). Press pushbutton + and D, setting specific functions and volume control (S111s1) in the (+) or (D) direction until the desired menu item "Lighting" is active on the multifunction display (A1p13),

Press the scroll forward/back button (S110s1) (*, #) until the display of the setting to be changed appears on the multifunction display (A1p13). Press the + D and -, specific function setting and volume control button (S111s1) in either the "+D" or "-D" direction until the value you require is displayed on the multifunction display. A1p13 The activated value becomes effective immediately.

Overview and sequence of settings in the menu item "Vehicle"

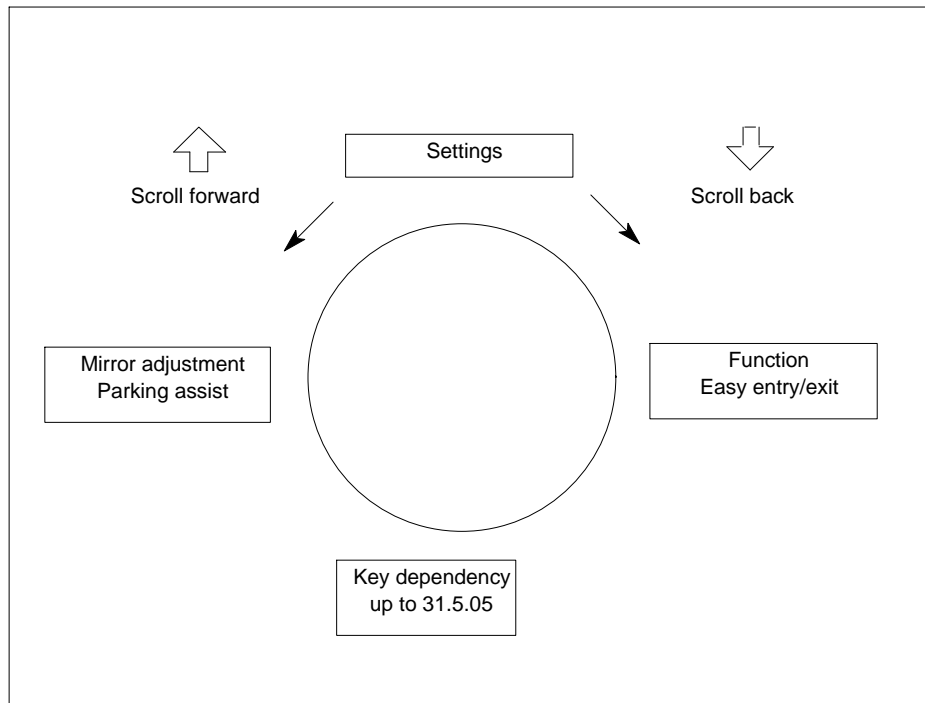


Change setting in the menu item "Vehicle"

Press the system selection button (S110s3) until the "settings" function appears on the multifunction display (A1p13), go to the corresponding menu item using the scroll forward/back button (S110s1) (*, #). Press pushbutton + and D, setting specific functions and volume control (S111s1) in the (+) or (D) direction until the desired menu item "Vehicle" is active on the multifunction display (A1p13),

Press the scroll forward/back button (S110s1) (*, #) until the display of the setting to be changed appears on the multifunction display (A1p13). Press the + D and -, specific function setting and volume control button (S111s1) in either the "+D" or "-D" direction until the value you require is displayed on the multifunction display. A1p13 The activated value becomes effective immediately.

Overview and sequence of settings in the menu item "Comfort"



Change setting in menu item "Comfort"

Press the system selection button (S110s3) until the "Settings" function appears on the multifunction display (A1p13), go to the corresponding menu item using the scroll forward/back button (S110s1) (*, #). Press pushbutton + and D, setting specific functions and volume control (S111s1) in the (+) or (D) direction until the desired menu item "Comfort" is active on the multifunction display (A1p13), Press the scroll forward/back button (S110s1) (*, #) until the display of the setting to be changed appears on the multifunction display (A1p13). Press the + and -, specific function setting and volume control button (S111s1) in either the "+D" or "-D" direction until the value you require is displayed on the multifunction display. A1p13 The activated value becomes effective immediately.

i Settings are selectable regardless of the vehicle speed.

Recalling the factory settings

All the possible settings are erased and the manufacturer default setting reproduced by a "Reset".

Carry out reset

Press the system selection button (S110s3) until the "SETTINGS" function appears on the multifunction display (A1p13). Press the scroll forward/back button (S110s1) (*, #) until the display "TEMPERATURE DISPLAY" appears on the multifunction display (A1p13). Press the button + and D, setting of specific functions and volume control (S111s1) towards (D) on the right-hand side of the steering wheel so that Fahrenheit is now active on the multifunction display (A1p13). The setting becomes effective immediately.

Example: Switching over from degrees Centigrade to degrees Fahrenheit (up to 31.5.05)

Press the system selection button (S110s3) until the "settings" function appears on the multifunction display (A1p13), go to the corresponding menu item using the scroll forward/back button (S110s1) (*, #). Press the button + and D, setting of specific functions and volume control (S111s1) towards (+) or (D) until the desired menu item "Instrument cluster" is active on the multifunction display (A1p13). Press the scroll forward/back button (S110s1) (*, #) until the display "TEMPERATURE DISPLAY" appears on the multifunction display (A1p13). Press the button + and D, setting of specific functions and volume control (S111s1) towards (D) on the right-hand side of the steering wheel so that Fahrenheit is now active on the multifunction display (A1p13). The setting becomes effective immediately.

i As of 1.6.05 it is no longer possible for the user to change over from degrees Centigrade to degrees Fahrenheit.

i If a reset is performed while driving, the setting menu "Driving lights on" in the "Illumination" menu and the setting menu "Speed limit (winter tires) in the "Vehicle" menu are not reset for safety reasons. The message "NOT ALL SETTINGS RESET" appears on the multifunction display (A1p13). The instrument lighting dimmer and the instrument display (A1p13) are not affected.

Calling stored fault and warning messages

When the instrument cluster (A1) is active, you can scroll through the saved messages:

- D Press the system selection button (S110s3) until the display "MESSAGES" appears on the multifunction display (A1p13) (as of 1.6.05)
 - D Press the system selection button (S110s3) until the display "MESSAGES" appears on the multifunction display (A1p13) (as of 1.6.05)
 - D Use the button + and D, setting of specific functions and volume control (S111s1) to scroll through the fault messages. The messages are displayed in the order in which they were acknowledged.
-

Setting illumination brightness

Using the instrument illumination rheostat and reset button (A1r1) the brightness of the illumination of the instrument cluster (A1) as well as the controls and switch illumination can be adapted to the individual needs:

- D Turning to the right ! brighter
- D Turn to the left ! dimmer

Switch on ESP rolling test

Function prerequisites:

- D Circuit 15R ON
- D No undervoltage or overvoltage

Acknowledging fault and warning messages

These messages are divided into 3 categories according to their priority. Messages in categories 2 and 3 on the multifunction display (A1p13) can be acknowledged by pressing the Instrument illumination rheostat and reset button (A1r1) as well as with the system selection button (S110s3) of the multifunction steering wheel and then stored in the fault memory. On the other hand messages in category 1 (top priority) cannot be acknowledged. Indicator or warning lamps that light up at the same time cannot be acknowledged.

i Certain fault and warning messages are also accompanied by a chime. A signal always sounds when faults and warning messages are displayed. For example "close trunk lid" belongs to the fault messages and warning messages.

i The fault messages and warning messages are not stored in the fault memory.

In the rolling test, the rotational speeds of the driven axle are mirrored on the non-driven axle. To do this:

- D Adjust the standard display (basic condition with current total mileage and trip odometer and outside temperature).
- D Keep the instrument illumination rheostat and reset button (A1r1) pressed for approx. 20 s to 30 s or 3 times within 2.5 s until the beep is audible.
- D Press the scroll forward/back button (S110s1) once in the (*) direction. The rolling test display appears.
- D Switch on rolling test using the + and D, specific function setting and volume control button (S111s1).

i The dynamometer test remains active, even if "circuit 15R ON" has been switched off in the meantime until it is switched off with the button + and D, setting of specific functions and volume control (S111s1).