00 00 624 Service - vehicle check

Overview of Activities

Additional Information

Preliminary Work

1	Check lighting system
2	Check horn, headlight flashers and hazard warning flashers
3	Checking the windscreen wiper and the window washer system
4	Check blower
5	Check the interior lighting
6	Check seat belts
7	Checking the warning triangle, high-visibility jacket and first-aid kit
8	Check Mobility Set

Main Work

9	Check tyres (if available, compact spare wheel also)
10	Checking the undercarriage and all visible components
11	Check brake lines and the brake line connections
12	Check the components of the steering

Postprocesses

13	Topping up the coolant level and checking the coolant composition
14	Check the engine compartment for leakage from the top
15	Top up the washer fluid for the window washer system
16	Check the charging cable and charging socket
17	Checking the tyre settings in the central information display (CID) (only in case of equipment specification with Tyre Pressure Monitor SA2VB)
18	Programming wheel electronics (only in case of equipment specification with Tyre Pressure Monitor SA2VB)
19	Perform CBS reset
20	Checking for road safety and performing test drive

General information

i TECHNICAL INFORMATION

Repair possible defects for a separate charge after discussion with the customer.

PRELIMINARY WORK

1–Check lighting system

Check

- Check function of the front and rear lights.
- Check function of the motor vehicle number plate light.
- Check headlight adjustment.

Result

» Functional limitation of the lighting system.

Measure

- Repair lighting system.

  If necessary, adjust headlight and charge separately.

  63 10 014 Adjusting fog lights

  63 10 004 Adjusting headlights

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  63 10 014 Adjusting fog lights

  63 10 ... Adjusting glare-free high-beam headlight (with headlight adjustment device MAHA Lite 3)

  63 10 ... Adjusting dazzle-free high-beam headlights (using non-electronic headlight tester)

  63 10 004 Adjusting headlights

  63 10 004 Adjusting headlights

  63 10 014 Adjusting fog lights

  63 10 ... Adjusting glare-free high-beam headlight (with headlight adjustment device MAHA Lite 3)

  63 10 ... Adjusting dazzle-free high-beam headlights (using non-electronic headlight tester)

▸ If fitted: Check BMW kidney 'Iconic Glow' (only for equipment specification with SA3DN)

Check

- Check function of BMW kidney "Iconic Glow".

Result

» BMW kidney "Iconic Glow" not functioning.

Measure

- Repair BMW kidney 'Iconic Glow' after consultation with the customer.

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2–Check horn, headlight flashers and hazard warning flashers

- Operate the horn and check the function of both fanfares.
- Operate the headlight flasher, check the function of the high beam headlight and blue indicator light in the instrument cluster (KOMBI).
- Check function of hazard warning lights system.

3–Checking the windscreen wiper and the window washer system

Additional information is available.

Check

- Check the wiper range for streaks.

Result

» Streaks in the wiper range.

Measure

- For a separate charge: Renew the wiper blades.

Check

- Check the washer jets and spray jet

- Check the washer jets and spray jet.

Result

» The spray jet does not exit or exits unevenly.

Measure

- Adjust the washer jets.

Measure

- For a separate charge: If applicable, renew the washer jets.

4–Check blower

- Check function of blower.
- Check air distribution and air leak for all blower speeds.

5–Check the interior lighting

- Check the function of the operating element.
- Check the function of the indicator lights and warning lights.
- If applicable, check the function of additional instrument lighting.
- Check the function of the inscription lighting of the light switch.
- If applicable, check the function of additional inscription lighting.
- Check the function of the interior lighting.
- Check the function of the glove box light.
- Check the function of the luggage compartment lights.

6–Check seat belts

Check

- Check condition of seat belt strap.
- Check function of automatic reel.
- Check seat belt locking reel, seat belt buckle, seat belt clip and, if necessary, seat belt clasp for damage.

Result

» Damage or functional limitations.

Measure

- Repair damage and functional limitations.

72 00 ... Replacing the seat belt clip

7–Checking the warning triangle, high-visibility jacket and first-aid kit

Check

- Check whether or not the warning triangle, high-visibility jacket and first-aid kit are available.
- Check expiry date on the first-aid kit.

Result

» **Version A:** The warning triangle, the high-visibility jacket or the first-aid kit is not available.

» **Version B:** The expiry date of the first-aid kit has elapsed or will expire prior to the next vehicle check.

Measure

- **Version A:** Install the warning triangle, high-visibility jacket and first-aid kit.

Measure

- **Version B:** Renew first-aid kit.

8–Check Mobility Set

Check

- Check expiry date on the tyre sealant bottle.

Result

» Expiry date exceeded.

» Expiry date exceeded before next vehicle check.

Measure
- Replace tyre sealant bottle and charge separately.

MAIN WORK

9–Check tyres (if available, compact spare wheel also)

Check
- Check the tread depth of all tyres with the tyre tread gauge.
- Check the tyre tread surface and flanks for cuts and foreign objects such as nails or screws.
- Check tread wear pattern for worn out areas and for one-sided wear.

Result

» Tyres worn or damaged.

Measure
- Replace the tyres against a separate invoice and, if required, carry out the wheel alignment.

Check
- If fitted: Check the tyre inflation pressure in the emergency spare wheel.

Result

» Tyre pressure too low or too high.

Measure
- Adjust the tyre inflation pressure as per the specification.

10–Checking the undercarriage and all visible components

Check
- Perform a visual inspection of the undercarriage.
  - Check for tightness (transmission, fuel system, brake components, steering).
  - Check for correct routing of the electrical wires (e.g. brake pad wear sensor).
  - Check for tightness (shock absorber).
  - Check installation of the extended springs and check for corrosion.
  - Check the undercarriage for damage.
  - Check all the mountings of the mounted parts (e.g. underbody panelling).

Result

» Damage or leak on the undercarriage.

Measure
- If necessary, remove the trim panels from underbody.

  Check brackets, brake lines and fuel lines for damage and correct mounting orientation.

Measure
- Eliminate possible defects for a separate charge after discussion with the customer.

11–Check brake lines and the brake line connections

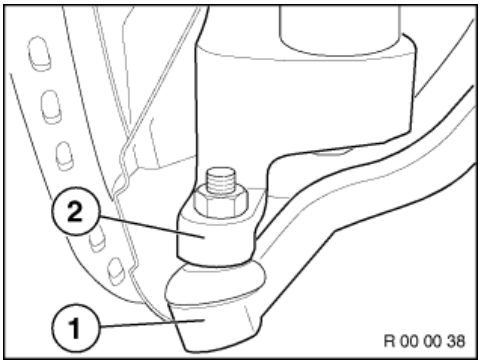
Check
- In the visible areas, perform visual connection for:
  - Leakages
  - traces of fluid
  - damage
  - pinched areas
  - correct routing of brake lines
  - correct seating of brake lines in holders
- Check brake fluid level in brake fluid expansion tank

Result

» Leaks, damage.

Measure
- Repair detected defects for a separate charge after discussion with the customer.

12–Check the components of the steering



Check

- Move the steering wheel in both directions while checking for play.

desired state

- There is no play between the track rod joint (1) and track rod arm (2).

Result

» There is play.

Measure

- Eliminate possible defects for a separate charge after discussion with the customer.

Check

- Check gaiters and sleeves for damage (e.g. cracks and holes) and tightness.
- Check gaiter for missing tensioning straps.

Result

» Damage or leaks.

Measure

- Eliminate possible defects for a separate charge after discussion with the customer.

POSTPROCESSES

13–Topping up the coolant level and checking the coolant composition

▸ Observe the note (for equipment specification with N63T3 or S63T4)

RISK OF DAMAGE

Injectors contaminated with coolant.

Damage to and failure of injectors which were coated for a longer period with coolant.

- Cover injectors without fail with suitable auxiliary materials before checking or topping up coolant.
- Cover injectors without fail with suitable auxiliary materials before working on the cooling system close to the injectors.
- If necessary, draw off all of the coolant from the coolant expansion tank.
- Clean injectors or injector shafts contaminated with coolant without fail (e.g. with compressed air).

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- Park vehicle on a horizontal surface.
- Stop engine.
- Visual inspection of the engine compartment for traces of coolant.
- Check coolant composition in all coolant expansion tanks.

Expendable materials

Technically suitable antifreeze and corrosion inhibitor	

Main group 17

TECHNICAL INFORMATION

The test conditions must be observed.

- Check the coolant level in all coolant expansion tanks.

Test conditions for coolant level

Coolant must be cooled down

- The coolant level in all coolant expansion tanks must be filled above the max mark for a separate charge.

Coolant level

Overfill quantity of coolant (above the maximum mark) in the high-temperature expansion tank	+ 200 ml
Overfill quantity of coolant (above the maximum mark) in the low-temperature expansion tank (if installed)	+ 100 ml

14–Check the engine compartment for leakage from the top

Check
- Carry out visual inspection of the engine compartment.
  - Check general leak-tightness (engine, cooling system, fuel system, hoses and pipes)
  - Check the electric cables are correctly routed.

Result

» Damage or leakage present.

Measure
- Eliminate possible defects for a separate charge after discussion with the customer.

15–Top up the washer fluid for the window washer system

- Top up the fluid tank for the window washer system up to the maximum mark.

16–Check the charging cable and charging socket

Check
- Check the charging cable and charging socket for damage and corrosion.

Result
- Breaks
- Cuts
- pinched areas
- Corrosion
- Wear

Measure
- Rectify identified faults after consulting with customer and issue a separate invoice.

17–Checking the tyre settings in the central information display (CID) (only in case of equipment specification with Tyre Pressure Monitor SA2VB)

Check
- Check for correct tyre setting in the central information display (CID).

desired state
- The mounted tyres match the tyre setting in the central information display (CID).

Result

» Incorrect tyre setting in the central information display (CID).

Measure
- Adjust the tyre setting in the central information display (CID).

  Go to the menu:
  - Select **My vehicle** in the menu.
  - Select **Vehicle status** in the menu.
  - Select **Tyre Pressure Monitor (TPM)** in the menu.

Enter the settings:

- Select **Tyre settings** from the menu.
- Select tyres: Summer tyres / winter tyres.
- Select the tyre type that is mounted at the rear axle.
- Select the load status of the vehicle.
- Confirm the settings.

Starting measurement of the current tyre pressure. The progress of the measurement is displayed.

18–Programming wheel electronics (only in case of equipment specification with Tyre Pressure Monitor SA2VB)

Additional information is available.

TECHNICAL INFORMATION

After replacing a tyre or a wheel electronics unit, it is necessary to reprogram the wheel electronics for the tyre!

As soon as the programmable wheel electronics units are depressurised for longer than 2 minutes (tyre removed) the tyre data record written on them is deleted.

The programmable wheel electronics units must be reprogrammed with the tyre data record from the QR code on the tyre sidewall using the special tool (RDC Tool).

New: If no QR code is available on the tyre, the tyre data must be programmed manually using the special tool (RDC Tool) (see flowchart).

Refer to the operating instructions for the special tool (RDC Tool) for the exact procedure.

Check

- Using the special tool **2 456 858** check, whether the wheel electronics (1) have already been programmed.

Result

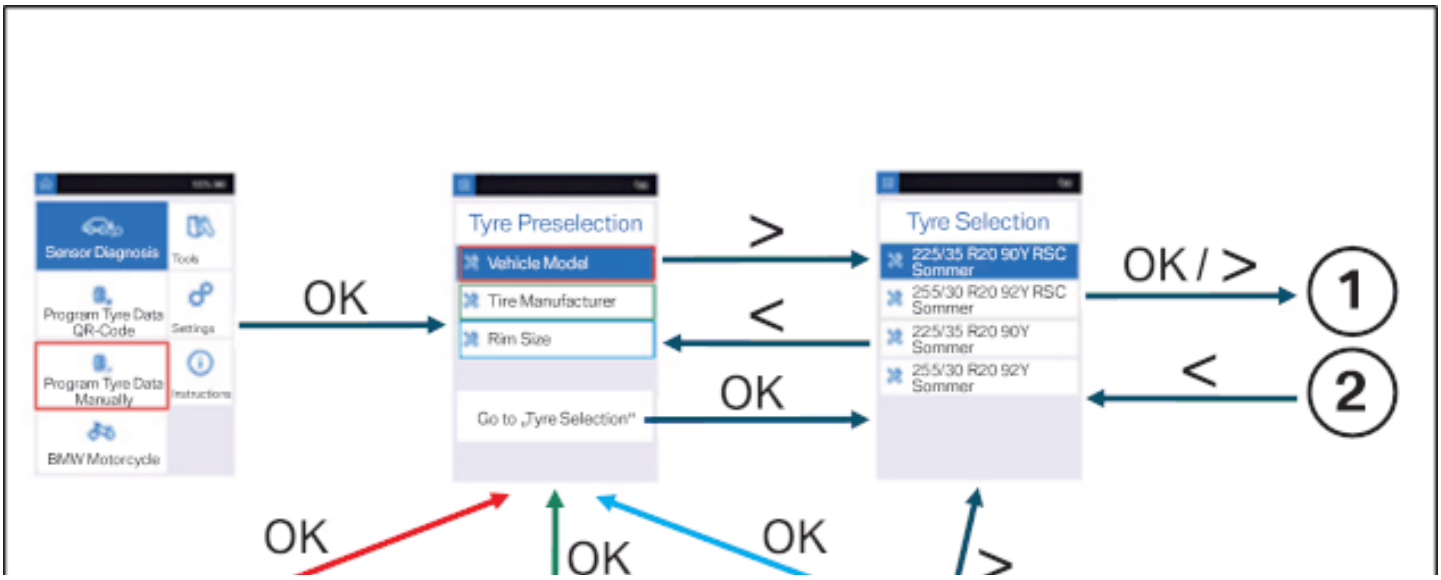
» Wheel electronics were (1) not programmed yet.

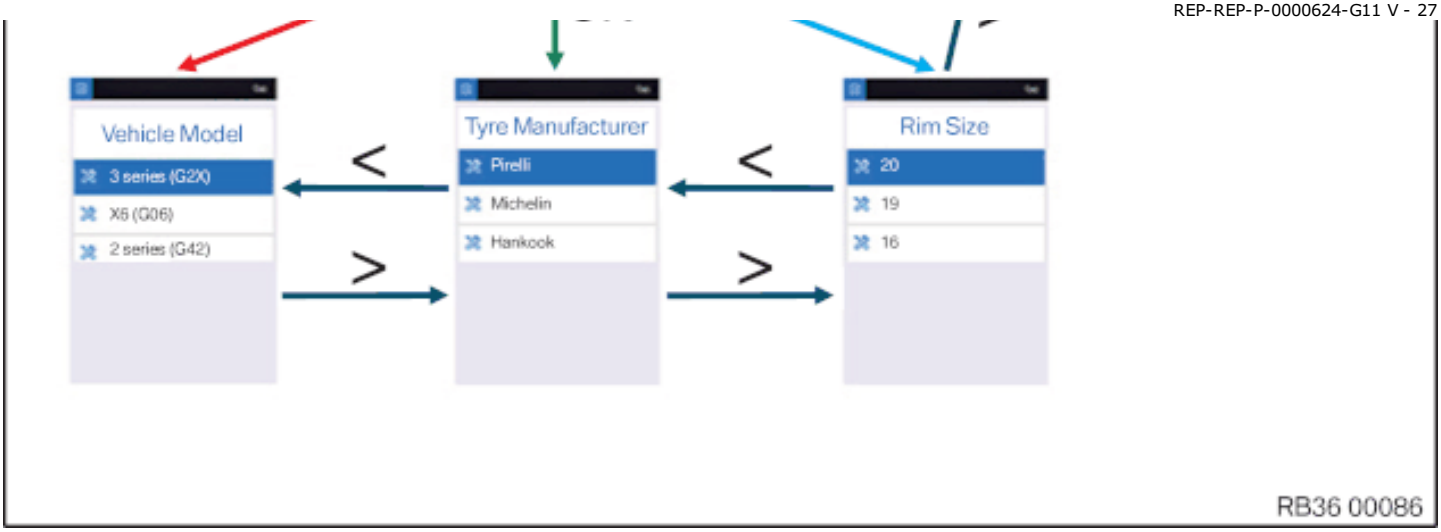
Measure

- Program the wheel electronics (1).

▸ Programming the tyre data (wheel electronics) manually

If there is no QR code on the tyre, program tyre data manually with special tool 2 456 858





Flowchart for tyre data programming.

Manual tyre data programming:

-> In the main menu of the RDC Tool, start "**manual tyre programming**".

-> Select vehicle model, tyre manufacturer and wheel size.

-> Select the correct tyre size.

-> Start programming via the "**OK**" key or the arrow button "**>**" (1).

-> The arrow button "**<**" takes you back to the selection "Vehicle model, tyre manufacturer and wheel size".

- With "OK", you can switch between the main and submenus (see diagram).

- You can use the "<" and ">" arrow buttons to directly switch back and forth between the submenus (see diagram).

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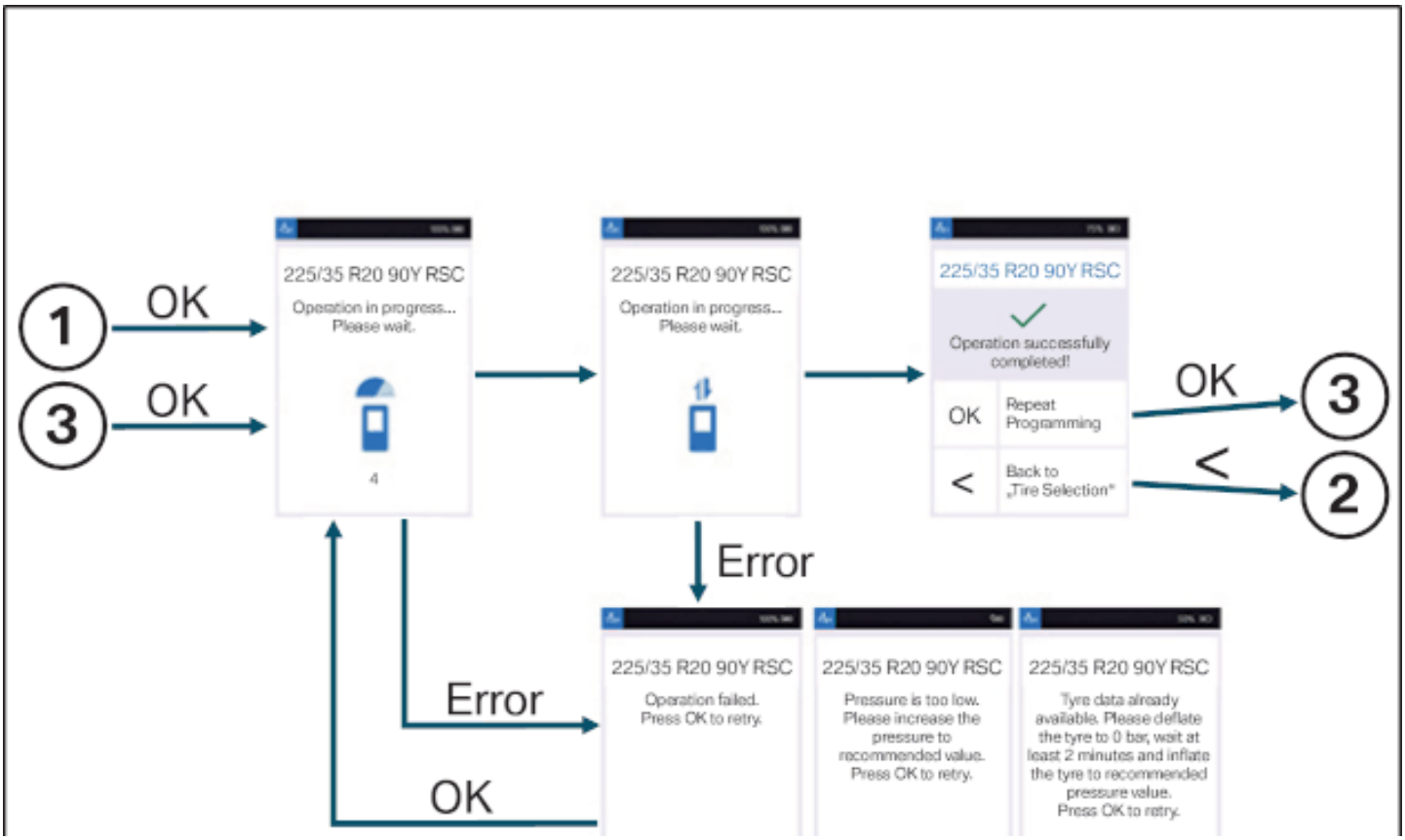
▸ Programming other wheel electronics



-> After successful programming on the sensor (valve), the same programming can be carried out again on another sensor by pressing the "**OK**" key (3).

-> The arrow button **"<"** (2) takes you back to the tyre selection!

-> In the event of a fault message, the "**OK**" key takes you back to the start of programming.

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▸ Programming the wheel electronics

NOTICE

The training video is only available in English language.

TECHNICAL INFORMATION

The training video shows schematically the programming of the wheel electronics with the special tool RDC Tool.

The training video does not replace the repair instructions.

The training video is not subject to the update service.

We can assume no liability for printing errors or inaccuracies in this document and reserve the right to introduce technical modifications at any time.

- Follow repair instructions!

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- Program wheel electronics (1) using the special tool **2 456 858**.

▸ Adjusting the tyre setting in the CID (in case of equipment specification with ID7)

Additional information is available.

- Adjust the tyre setting in the central information display (CID).
- Go to the menu:
  - Select **My vehicle** in the menu.
  - Select **Vehicle status** in the menu.
  - Select **Tyre Pressure Monitor (TPM)** in the menu.

  Enter the settings:
  - Select **Tyre settings** in the menu.
  - Select tyres: Automatic.

- Select the load status of the vehicle.
- Confirm the settings.

TECHNICAL INFORMATION

The stored tyre data is automatically transferred to the vehicle by the wheel electronics.
For this, the vehicle must be driven.

- Drive the vehicle to measure the current tyre inflation pressure.

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▸ Adjusting the tyre setting in the CID (in case of equipment specification with ID8)
Additional information is available.

- Adjust the tyre setting in the central information display (CID).
- Go to the menu:
  - Select **Menu**
  - Select **Live Vehicle**
  - Select **Tyre Pressure Monitor**
  - Select **Tyre Settings**

  Enter the settings:
  - Select tyres: Automatic.
  - Select the load status of the vehicle.
  - Confirm the settings.

TECHNICAL INFORMATION

The stored tyre data is automatically transferred to the vehicle by the wheel electronics.
For this, the vehicle must be driven.

- Drive the vehicle to measure the current tyre inflation pressure.

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19–Perform CBS reset

Prerequisite

Scope of maintenance work is performed.

On-board date is set correctly.

No CC message is present.

Remaining distance or remaining service life of the service interval is below 90%.

TECHNICAL INFORMATION

The CBS scope of maintenance work can be reset in the car. In general, however, the reset of CBS functions (CBS reset) with the diagnosis system is recommended.
It is only possible to encode the country-specific statutory intervals with the diagnosis system.

TECHNICAL INFORMATION

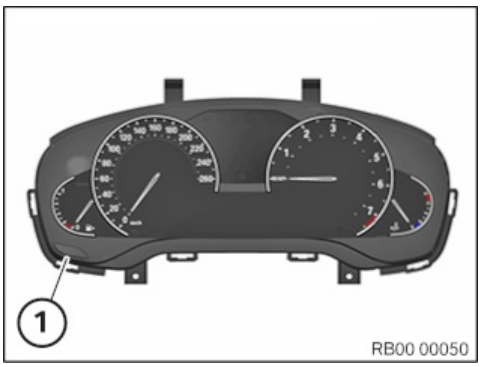
Information for the occurrence of a failed CBS reset:
For rear/front brake service:
- A CBS reset is possible in the vehicle only with a sanded brake pad wear sensor (CBS display in the CID active).
- In case of a brake pad wear sensor that is not sanded, (no CBS display in the CID) a CBS reset is possible only with the diagnosis system.

Other known causes of CBS reset problems:
- Parking brake applied.
- Brake pedal applied

- Automatic Hold function activated.

i TECHNICAL INFORMATION

The reset procedure (CBS reset) is cancelled due to a timeout or a terminal change.



- **Equipment specification with the reset button for the trip odometer in the instrument cluster (KOMBI)**

  Generate PWF status "Residing".

  Generate PWF status "PAD": To do so, press the START-STOP button 3 times.

  Press trip distance recorder reset button (1) for approx. 10 s, until the 1st scope of maintenance work appears on the display.

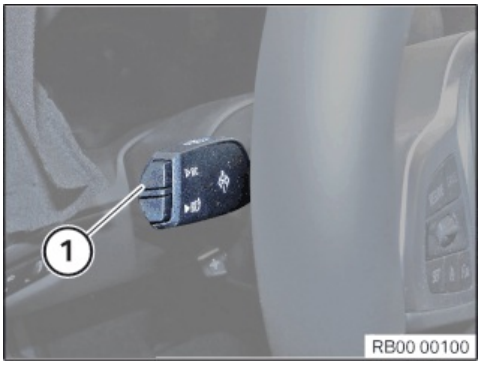
  The next position is reached by briefly pressing the trip distance recorder reset button (1) again.

  Select the scope of maintenance work.

  If a CBS reset is possible, "Reset possible" is displayed on the instrument cluster (KOMBI).

  Confirm the "Perform reset?" text message. To do so, press the trip distance recorder reset button (1) for 3 s.

  The CBS reset is confirmed as "Reset successful" after it is performed.



- **Equipment specification without the reset button for the trip odometer in the instrument cluster (KOMBI)**

  Generate PWF status "Residing".

  Generate PWF status "PAD": To do so, press the START-STOP button 3 times.

  Press on-board computer button on the turn signal indicator/high beam stalk (1) for approx. 10 s, until the 1st scope of maintenance work appears on the display.

  The next position is reached by briefly pressing the on-board computer button on the turn signal indicator/high beam stalk (1)again.

  Select the scope of maintenance work.

  If a CBS reset is possible, "Reset possible" is displayed on the instrument cluster (KOMBI).

  Confirm the "Perform reset?" text message. For this, press the on-board computer button on the turn signal indicator/high beam stalk (1) for 3 s.

  The CBS reset is confirmed as "Reset successful" after it is performed.

20–Checking for road safety and performing test drive

Check

- Check the service brake and the parking brake.
- Check steering for play, ease of movement and correct straight-ahead driving.
- Inspect the shock absorbers visually for leaks.
- Check that the indicator lights, the warning lights and the Check Control function correctly.
- Check the due date on the German Technical Inspection Agency (TÜV) badge and, if necessary, inform the customer of the due date for the inspection.

Result

» Defects were detected.

Measure

- Eliminate possible defects for a separate charge after discussion with the customer.