Connected Service

Connected Service is a maintenance concept that has been part of the BMW Group since the introduction of the BMW 7 Series.

Connected Service is made up of several modules; some of these are already in operation while others have been further developed or introduced for the first time with the launch of the BMW 3 Series.

Connected Service is an indication of how communications and networking between the car and Service are increasing. TeleService1 can even make an automatic service call which informs the customer's home dealer that a service is due.

The Key Reader is an important Connected Service module. Service reception is able to read the data stored in the vehicle key with the Key Reader.

Connected Service Modules

Condition Based Service (CBS)

In the same way as the mid-range and luxury models, the BMW3 Series will also be offering service intervals that are geared towards the current condition of selected components, i.e. servicing that depends on the condition of components and maintenance requirements; this is known as Condition Based Service (CBS).

Condition based service therefore means - servicing on a timely basis.

The system calculates when a service operation, e.g. an oil change is due and informs the customer of this via the liquid crystal display in the instrument cluster.
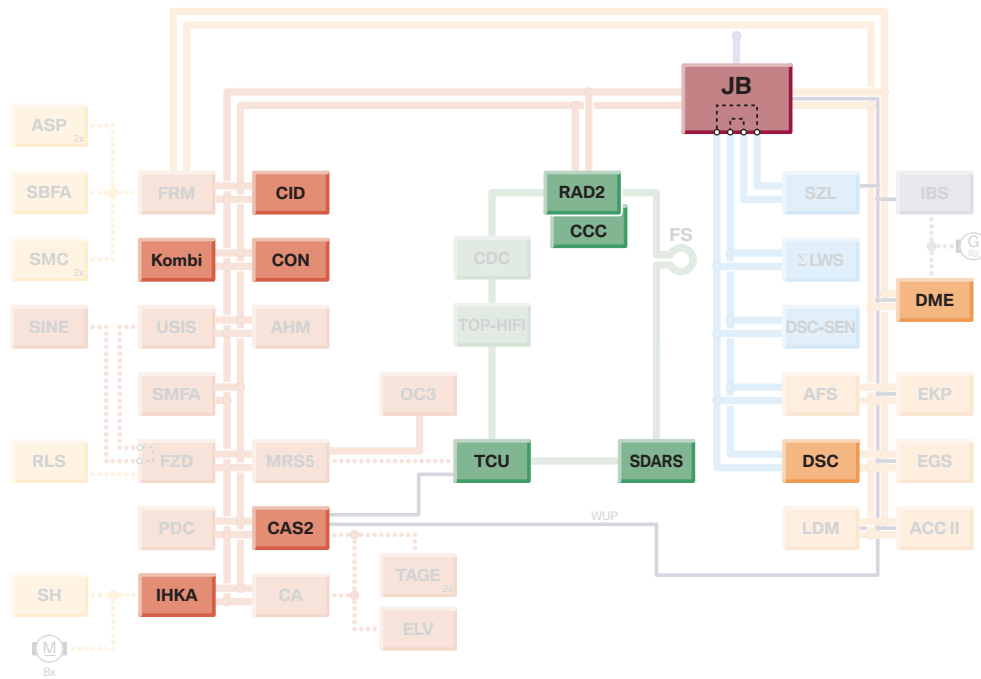
CBS sorts all the data according to date due and can determine when the vehicle should be taken into service.

If a central information display CID is installed, the instrument cluster passes on the sorted data to the CID where the data can be displayed in the service menu.

There are ten different types of service, with each of these types being assigned to a specific service group, e.g. oil change.

The system comprises the following components with their sensors:

- Instrument cluster
- External control units such as DME, IHKA, and DSC
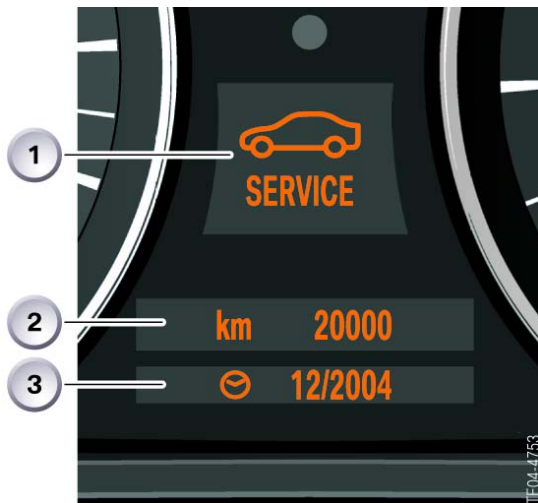- Car Access System (CAS) 2
- Central information display CID.

Control Modules Involved in CBS

CBS Display- Instrument Cluster

The CBS display always comprises the following two separate displays:

- A colored symbol in the upper display
    - Orange for normal
    - Yellow for service due
    - Red for service overdue
- Information on remaining distance and/or due date in the lower display.

CBS Display in the Instrument Cluster

Index	Explanation
1	CBS symbol
2	Remaining distance display
3	Final date information

CBS Display – Central Information Display

All information on the individual service operations can be displayed in the CID.

To access the CBS date press the controller, the "Settings" menu will appear.

Turn the controller until "Service" is highlighted, then press to activate the CBS menu.

The following operating and display fields are shown:

- Status bar
- Menu bar 1
- Menu bar 2
- Display field for CBS symbol
- Display field for service operation.

Index	Explanation
1	Menu bar 1 - Service requirement,CC messages - Service
2	Menu bar 2 - Status - There are currently no requirement messages
3	Display field for CBS symbols
4	Status bar
5	Igniter pellet for belt force limiter
6	Display field for service operation
7	Target date

The service operation display field always shows the first five messages.

Any overdue service operations and symbols marked in red in the list are always at the top of the list of messages.

To display the information concerning a specific service operation on the CID, turn the controller to select the required service operation and display the selection by pressing the controller.

The following display appears in the CID if, for example, the service operation "§ Vehicle inspection" is selected and activated:

Index	Explanation
1	Exit display, return to last setting
2	Date for general inspection
3	Text field for further information
4	Schedule date for service

Once the service date has been set and confirmed by pressing the controller, the priority of the service operation changes, e.g. from red to green and the service operation is sorted in the list.

Service Information

Resetting the Service Operations

When one or more service operations have been carried out, e.g. front brake pads have been changed, these operations must be reset to their full service interval.

There are three options for resetting the service operations:

1. Legally required service operations such as the vehicle inspection (HU) and exhaust emission inspection (AU) can only be reset in the "Service" menu.

2. All vehicle servicing service functions such as changing spark plugs are reset via the reset button for the trip distance recorder in the instrument cluster. If the reset button is pressed for longer than ten seconds, the reset mode opens automatically.

3. All fields can be reset using the service functions found in the diagnosis program of the DISplus or GT1.

To reset the service information data using the cluster:

- KL-15 on and all Variable displays in cluster off (clock should be displayed)

- Press and hold odometer reset button until CBS pictures display in cluster for about 5 seconds then release

- Use the BC button to scroll through till desired resetable picture is displayed.

- "Reset?" is displayed, Press and hold BC button a picture of a small anaolg clock runs through its display. When complete, the CBS reset that you chose is reset.

- If you want to insure that the reset was done, you can press the BC button while still looking at the CBS reset pictogarm and the acknowlegment of reset will be shown with a check mark in a box

Entering Due Date

The due date for the legally required general inspection and exhaust emission inspection can be entered only in the central information display with the aid of the controller.

Since different laws are applicable depending on the country, country-specific intervals can be found at this point. For markets where no such regulation applies for general inspection and exhaust test, this function can be suppressed by the diagnostic software in the DISplus or GT1under: service functions -handover inspection.

Carry out the following procedure to enter the due date:

- Select "Service" from the "Settings" menu and confirm

- Select service operation "§ Vehicle inspection" for example and confirm. "Set service date" is marked.

- Press controller to activate the input box.

- Enter the date by turning and pressing the controller.

- Select "Exit display" and confirm to return to the last setting.

Entering Due Date

Index	Explanation
1	Exit display, return to last setting
2	Date for statutory vehicle inspection
3	Text field for further information
4	Activate deadline in (2)