

## E60 - General information on head-up display

The following general information is provided for service staff:

- Test functions
- Replacing windscreen
- Replacing head-up display
- Setting head-up display

### Test functions

The test functions are useful for troubleshooting without the BMW diagnostic system.

The test functions are displayed in the head-up display.

*Note: Test function replaced when driving*

At road speeds greater than 5 km/h, a warning given by the Active Cruise Control or a Check-Control message will replace the test function.

When terminal R or terminal 15 is ON, the test functions will be called up if the button for switching the head-up display is pressed and held for more than 10 seconds. When the first test function is displayed, other test functions can be activated by briefly pressing the button.

*Note: Enabling and disabling the test functions*

Some test functions are not freely accessible, but rather have to be enabled.

Enablement is only possible in the test function "Enable".

An enablement is effected by entering the sum of the last 5 digits of the vehicle identification number.

Test functions are disabled again when they are ended.

A test function is, e.g. the system test, which comprises the following sequence:

- The projection display cover panel is folded out of the beam.
- The light source lights up with maximum brightness.
- A series of test patterns appears in the head-up display to check for optical errors. The test patterns make it possible to test readability (focus) and colour reproduction.  
Test patterns contain:
  - Lines
  - Colours
  - Characters
  - Symbols
- The light source is deactivated.
- The projection display cover panel is folded into of the beam.

The test functions are terminated by the following conditions:

- Terminal R OFF
- Button pressed for longer than 2 seconds
- Test function "Reset" called up

### Replacing windscreen

**Important. A special windscreen is needed for the head-up display**

When changing the windscreen, please note that vehicles with the special equipment head-up display (option 610) require a special windscreen.

This windscreen is marked with the letters "HUD" at the bottom right edge.

### **Replacing head-up display**

The head-up display can only be replaced as a complete unit.

### **Setting head-up display**

There is a 2-piece adjustment tool for setting the head-up display. This comprises:

- Projection gauge
- Adjustment spanner

The projection gauge is engaged on the retainers of the sun visors.

With the DIS tester (diagnosis and information system tester), the test pattern for setting is called up and projected by the projection display through the windscreen and onto the scale of the projection gauge.

The head-up display can only be adjusted vertically using the adjustment spanner on the adjusting screw.

If the projected image is not level, this can be corrected by turning the projection display with the flexible shaft (from 12/2003).

*Note: The central information display must be removed to adjust the head-up display.*

To access the head-up display adjusting screw with the adjustment spanner, the central information display must be removed.

Access to the flexible shaft is also only possible once the central information display has been removed.