

NEW: Glow plug tester

Fast and reliable testing for steel and ceramic glow plugs - individually, no need to dismantle, no need to start the engine



New: BERU glow plug tester for 12 volt on-board voltage (BERU Order no. 0 800 115 010)

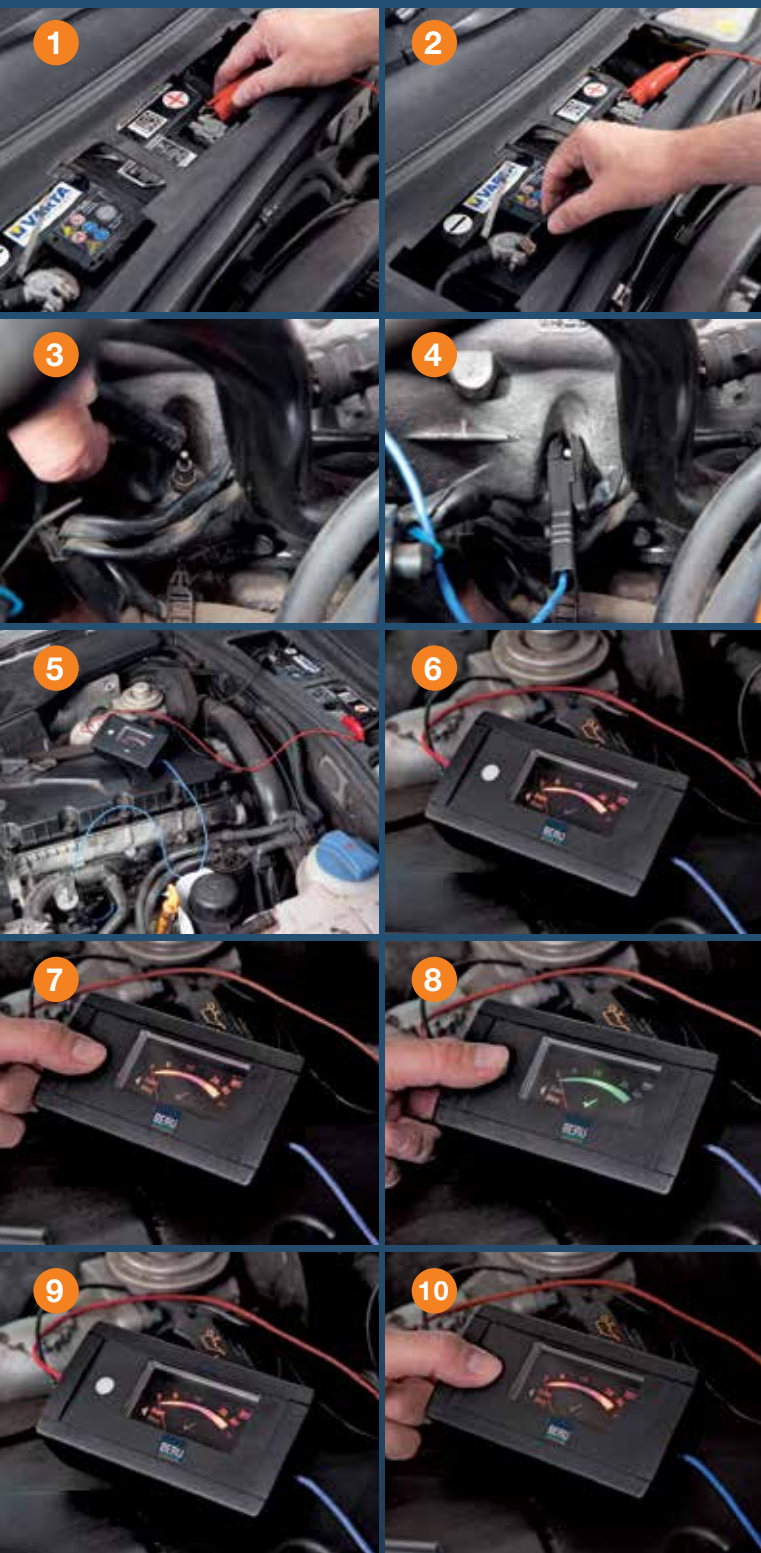
- 1 Plus connection (red silicone cable) → battery +
- 2 Minus connection (black silicone cable) → battery -3.
- 3 Test cable (blue silicone cable) → glow plug +
- 4 Start / stop button
- 5 Stop signal
- 6 Start signal
- 7 Amperemeter
- 8 "OK" symbol
- 9 Impact-resistant ABS housing

TECHNICAL DATA	
Power input	8.5-15 Volt
Max. current	80 Ampere
Test voltage	0-7.5 Volt After 3 seconds, the voltage goes back to 4.7 volts
Test pieces	sheathed steel glow plugs and ceramic glow plugs, 3.3 - 15 volts
Dimensions	122 x 65 x 40 mm (L x W x D)
Weight	250 g
Error message	→ Over-voltage and under-voltage → Short-circuit → Output (blue test cable) to +12 volt supply → Output (blue test cable) to minus

Now, with the new BERU glow plug tester, you can test steel and ceramic glow plugs on vehicles with 12 volt on-board voltage, easily, quickly, and reliably - individually, and with no need to dismantle them or start the engine.

The new BERU glow plug fast tester offers workshops a host of benefits:

- Reliable, fast and economical testing because there is no need to dismantle the glow plugs, or start the engine
- No need to pre-set the glow plug type (steel or ceramic)
- Detects automatically the glow plug voltage (from 3.3 to 15 volt)
- Tests in real-life conditions
- Easy to use
- Can test each glow plug separately
- Analogue display of heating and current limitation (individual glow plugs can be compared for current consumption and control behavior)
- Short-circuit and reverse voltage protection
- Surge voltage protection (additional glow plug monitoring via autonomous circuit)
- Characteristic-controlled testing procedure as in electronic control devices
- Detects loose contacts by means of processor, then repeats the test
- Special micro-controller software incorporated into the tester.



1. Connect the plus (red) and minus terminal (black) to the vehicle battery **1** + **2**. In order to prevent incorrect measurements, make sure that contacts are good and secure. The dial shows a continuous red light.
2. Remove glow plug socket **3**.
3. Connect the blue cable to the glow plug to be tested **4** + **5**. Tip: If the glow plug is difficult to access the blue test cable can also be connected via the unplugged plug-in coupling on the glow time control unit (refer to the circuit diagram of the vehicle concerned).
4. When "Start" in the display becomes yellow **6**, press the start button. The glow plug is subjected to the test for about 10 seconds under real-life conditions - indicated by the red flickering on the indicator dial **7**. The pointer indicates the initial current consumption and the limiting point. The current consumption should be about the same in all glow plugs in the test engine.
5. If the glow plug is OK, the OK symbol and the dial are illuminated green **8**.
6. If the glow plug is defective, no or only limited current consumption may be displayed. When the background lighting stops flickering red the defect is confirmed by a continuous red light **9**.
7. If necessary, the test procedure can be interrupted by pressing the start-stop button again **10**.

If the glow plug has a short-circuit, the testing program remains on "Stop" for safety reasons. The display flashes red if this is the case. To continue, disconnect the plus terminal of the tester for a short time and then reconnect it (reset); "Start" is now illuminated and the device is ready for further tests.

For safety reasons, a repeat test can be started only after 5 seconds; please pay attention to the "Stop - Start" background light:

- Continuous red light and "Start" is illuminated in yellow → device is ready for operation.
- Red flickering light → device is running the test program → pointer is indicating any glow plug current
- Continuous green light → testing is completed → the glow plug is operating correctly.
- Continuous red light and "Stop" is illuminated in yellow → device is defective
- "Stop" is illuminated in yellow → approximately 5 seconds' safety waiting time
- "Start" is illuminated in yellow → device is ready for the next measurement.
- Flashing red → fault (see table)

Troubleshooting

If the test does not run as planned it may be for one of the following reasons. Here is how to remedy the situation:

PROBLEM	POSSIBLE CAUSE	REMEDY
The dial continues to be illuminated red; Test procedure does not start	"Stop" is still illuminated yellow	Wait until "Start" is illuminated yellow
The dial is not illuminated	→ The plus and the minus connections are interchanged → Poor contact at connections	→ Connect the tester correctly. Plus → Red /Minus → Black → Ensure good and secure contact
No function	The input voltage is too low	Charge or replace vehicle battery
The dial is flashing red	→ Short-circuit measurement or the blue test cable has had ground or plus contact → Undervoltage ≤ 8.5 V → Overvoltage ≥ 17 V	→ Briefly disconnect the red plus terminal on the tester and then reconnect (Reset) → Check connections → Check the voltage supply