Parts Overview

From Basic Kit M18x1.5

Spark plug gap setting tool

Hexagon socket head cap screws M6x10

Thread adapter M18x1.5

Hex key SW4

From Accessory Kit for BERU® Spark Plugs 18GZ46 (Z377)

Base insert 18GZ46

Compressing pin 0.35 mm (0.014")

Expanding pin 18GZ46/18GZ47

SPARK PLUG GAP SETTING TOOL

Basic Kit M18x1.5 with Accessory Kit for BERU® Spark Plugs 18GZ46 (Z377)

Risk of destruction!

Frequent adjusting of spark plug electrodes can break the electrodes so that the spark plug becomes unusable. Therefore, adjust the electrodes carefully and only if necessary.

Risk of destruction!

Reused spark plug gaskets may not be tight so that gas can escape and the spark plug connector can be damaged. Always replace the spark plug gasket if the spark plug is removed from the engine.

Functional Description

With the Spark Plug Gap Setting Tool Basic Kit M18x1.5 and the Accessory Kit for BERU® Spark Plugs 18GZ46 (Z377) you can adjust the electrode gap of BERU® spark plugs 18GZ46.

Scope of Supply

- Basic Kit M18x1.5: spark plug gap setting tool, thread adapter M18x1.5, hexagon socket head cap screw M6x10 (2x), hex key SW4, transport case
- Accessory Kit for BERU® Spark Plugs 18GZ46: base insert 18GZ46, compressing pin 0.35 mm (0.014"), expanding pin 18GZ46/18GZ47, instructions for use

Electrode gap

The optimal electrode gap is dependent on the spark plug and the used gas. Follow the relevant recommendations of the spark plug manufacturer and the engine manufacturer.

Preparation

Before applying the tool, degrease and clean the spark plug. MOTORTECH provides a special cleaning kit for this.

Unless they are the appropriate parts, remove the installed thread adapter as well as the inserted base insert or expanding pin.

Application

First, note the information in section “Preparation” on page 1. With the compressing pin and the base insert you can set the electrode gap to 0.35 mm (0.014"). In case the gap between the ground electrodes and the center electrode is too small, you can spread the electrodes from each other with the expanding pin. Proceed as follows:

1. Remove the pre-installed hexagon socket head cap screws by loosening the screws with the supplied hex key.
2. *Adjust with compressing pin:*
   Insert the base insert 18GZ46 1 into the opening of the tool at the top.

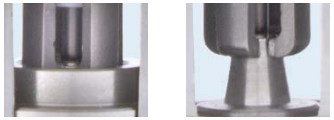
   Expand with expanding pin:
   Insert the expanding pin 18GZ46/18GZ47 into the opening of the tool at the top.

3. Put on the thread adapter M18x1.5 2 and screw the thread adapter tight with the supplied hexagon socket head cap screws M6x10. Use the supplied hex key SW4 for this.

4. *Adjust with compressing pin:*
   Put the compressing pin 0.35 mm (0.014") 3 into the gap between the ground electrodes and the center electrode of the spark plug.

5. To insert the spark plug, press the lock bar 4 to the limit and hold it down.
6. While holding down the lock bar, insert the spark plug as deep as possible.

Adjust: *Expand:*



7. Let the lock bar go to fasten the spark plug.
8. Check that the spark plug is firmly fixed. Otherwise go back to step 5 and re-insert the spark plug.
9. Screw the spark plug further until stop (see above picture “Adjust” or “Expand”).

10. Adjust the electrode gap as desired by softly pressing the lever.
11. Having adjusted the electrode gap, remove the spark plug by pressing the lock bar to the limit and taking out the spark plug while holding down the lock bar.
12. *Adjust with compressing pin:*
    Remove the compressing pin from the spark plug before further using the spark plug.