

## Extractorkit (9 pcs) for Mercedes Benz Cdi with Bosch injectors (Except A-class)

part. nr.: 6038410



Pos.	P/n.	Description	Qty
1	6038411	Hydraulic open core cylinder 12 tons	1
2	6038412	Support sleeve	1
3	6038414	Extraction spindle M14	1
4	6038417	Special socket wrench 10 mm.	1
5	6038416	Extraction adapter M17x1:M14	1
6	6038418	Hexagon nut M14	1
7	6038440	Extraction adapter M17x1:M18x1,5 for the slide hammer	1
8	6038413	Knurled adapter	1
9	6038419	Bearing adapter with bearing	1

### Accessories

P/n.	Description
6038365	Compensating elements for stepped valve covers set 4 pieces
6038445	Supplement to extractor kit for extremely frozen injectors set 4 pieces
6148800	Slide hammer 8 kg.
8025550	Hydraulic kit: manual pump, hose and ball valve
6038415	Supplement to extractor kit for A-class

## Manual for extractorkit (9 pcs) for Mercedes Benz Cdi with Bosch injectors (Except A-class) part. nr. 6038410

Always refer to the manufacturer's instructions and service manuals for the latest data and procedure. In this manual are the recommended tools, it is only an aid and in no way a guarantee for success. This tool kit is a special collection it has been rigidly tested and used successfully on a number of occasions.  
It is of the utmost importance to maintain the proper sequence shown below.

These tools should only be used by skilled technicians.

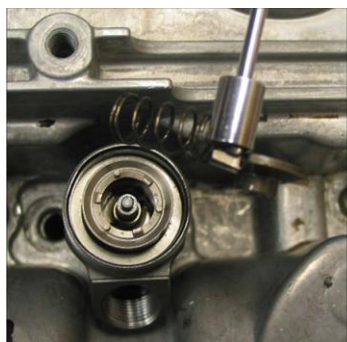
1. Remove all electric and fuel lines, also remove any other part which could be in the way.



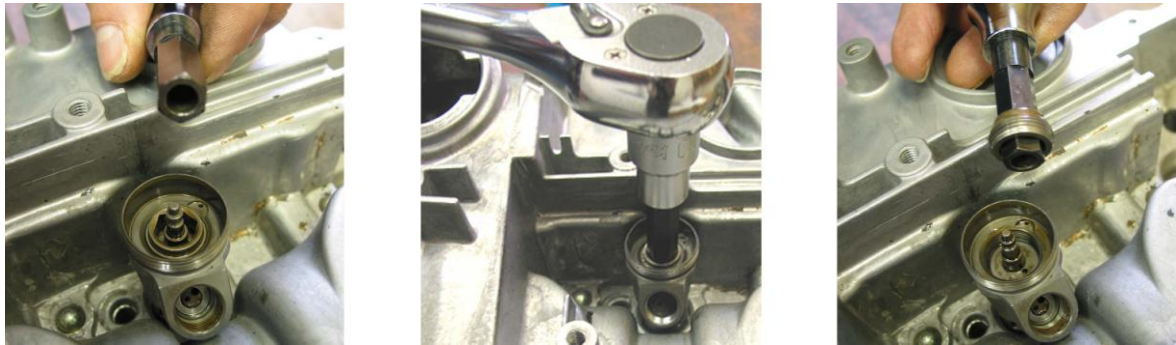
2. Remove the plastic cap with the electric connections by unscrewing the lock nut underneath, with a pair of multigrip pliers



3. Dismantle the injector, by pushing down the "three leave" with a screw driver till the sure clip comes free. remove the sure clip with a magnet from the shaft.



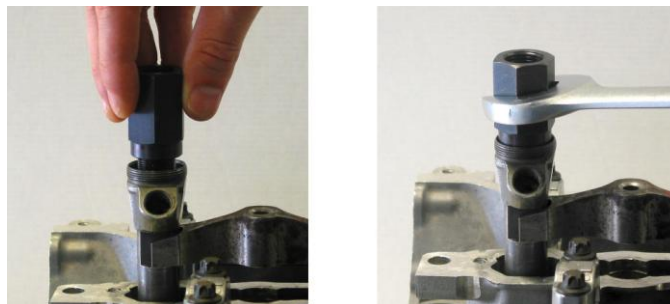
4. Remove the freed parts by means of a magnet and/or a pair of long-nosed pliers.



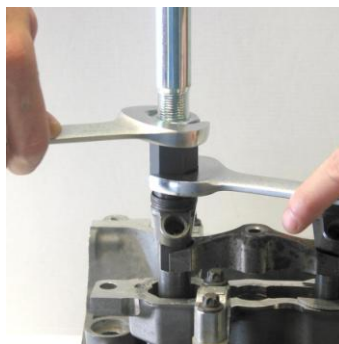
5. Unscrew and remove the hexagon socket nut using the special 10 mm socket wrench



6. Afterwards remove the freed the parts underneath by means of a magnet and/or a pair of long-nosed pliers in order to reach the maximum depth for the adapter pos. 5 and 7



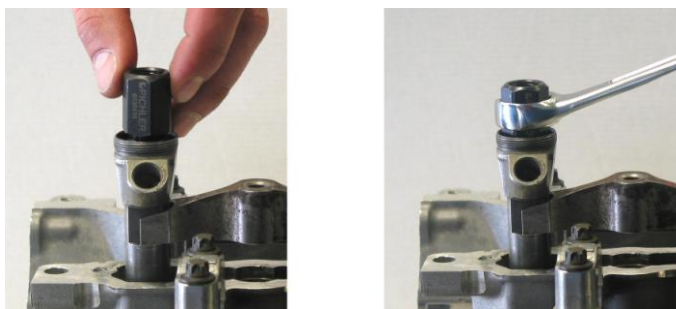
7. Screw the adapter part no. 6038440 (M17x1: M18x1.5 for the manipulation with a slide hammer) into the injector and tighten lightly.



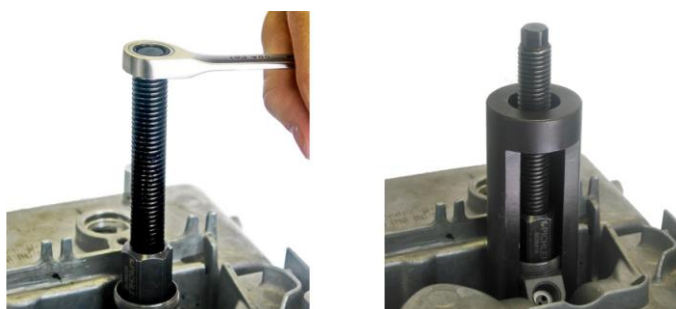
8. Screw the rod of the 8 kg. slide hammer (part. nr. 6148800) with external screw thread M 18x1.5 completely into the adapter part no. 6038440 and secure it with the nut. Place the slide on to the rod and screw on the grip.

**Important! The slide hammer 8kg. should only be operated by two people and attention should be taken to only pull in line with the injector.**

9. Now you can start by powerful blows to loosen the injector.

**Mechanical extraction of seized Mercedes Benz Cdi injectors.**

10. Install adapter part no. 6038416 ( M17x1 : M14) with a suitable tool in the injectors and tighten slightly



11. Screw spindle part no. 6038414 into adapter part no. 6038416 and tighten slightly by means of an appropriate 10 mm tool. Afterwards place extraction sleeve part no. 6038412 concentric to the ejector, on the valve cover.



12. Place the bearing with bearing adapter part no. 6038419 on the extraction spindle part no. 6038414 and screw on the nut part no. 6038418 and extract the injector.

**Important; During the operation of extraction nut part no. 6038414 the spindle has to be arrested on the hexagon by means of an appropriate 10mm tool!**

### Hydraulic extraction of seized Mercedes Benz Cdi injectors.



13. Place the hydraulic cylinder part no. 6038411 concentric, with the piston facing upwards, on support sleeve (6038412). Place the knurled adapter part no. 6038413 into the hydraulic cylinder and screw it onto the extraction spindle until it stops.



14. Attach the hydraulic hose along with a ball valve to the hydraulic cylinder and attach it to the hydraulic hand pump. Increase the pressure by hand. The injector will start to come out of the cylinder head.

**Attention, the maximum stroke is 8 mm. do not try to exceed.**

15. Open the valve until the piston has returned completely, close the valve, turn the knurled adapter until it touches the piston and repeat the operation. Repeat these steps until the injector can be removed easily by hand.



Part no. 6038365 set 4 pieces  
 Compensating elements for different valve cover heights



Part no 6038445 set 4 pieces.  
 Supplement for extremely frozen injectors