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www.sirini.it
info@sirini.it
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  - List of tools for CP4  pag. 146

- **Pipes & connections**  pag. 149

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AZ0134-S3 JTD TESTER
TO REPAIR COMMON RAIL
INJECTORS BOSCH - PHASE 3 -

A new perspective for repairing common rail injectors Bosch. A complete high-tech system that permits to everyone, also not expert operator, to deal with a specialization that until now was reserved to a very little part of technicians.

The system, JTD TESTER (AZ0134-S3), represents the development of what produced till today to have a perfect calibration of common rail injector Bosch of last generation.

It is an equipment of very high digital precision for having a micro-metric control of the internal calibration quota; a computer “All in one” Asus with touch screen monitor, a user-friendly dedicated software, a database that includes the 80% of the vehicles now on the market, including industrial vehicles.

This is what we can offer, to an extraordinary price, with a special price/quality ratio, that makes the purchase a good investment today and for the future.

If you need more great points to decide to buy the JTD Tester, you can think about the time you need to calibrate last generation of common rail injector Bosch; our system guarantees a max time of 15’ minutes for each single injector that correspond to 1 hour for 4 injectors!!!

The kit is composed of:

- Computer Asus with sofware
- Comparator bearing in granite
- Press
- Vice to dismount injectors

-JTD Tester complete with cables
-Vise for injectors
-Digital Torque wrench
-nr. 4 MITUTOYO comparators
Here some tests of our instrument:

- Solenoid electrical control
  - Measurement armature stroke
  - Measurement armature stroke shim

- Measurement solenoid depth size

- Measurement injector depth

- Measurement residual air gap

- Check armature stroke electrical and resistance
  - Measurement needle lift nozzle
  - Measurement shim needle lift nozzle
  - Thickness measurement nozzle spring force
  - Solenoid insulation control

All spare parts and thickness to repair and calibrate common rail injectors Bosch are available in our production.

Our JTD Tester is available with software in Italian – English – French - Russian

INFO@SIRINI.IT
AZ0134-3S STAGE 3
AZ0134-3S FASE 3 / TERZO STADIO

AZ0134-BN003
COMPARATOR BASE IN GRANITE
Base Comparatore in Granito

AZ0134-BN006
TORQUE WRENCH + ANGOL
Chiave Dinamometrica + Angolare

ACCESSORI :AZ0134-BN006
OPEN WRENCH 27 MM + RACTCHET WRENCH
Chiave Aperta da 27 mm + Cricchetto
AZ0134-3S  STAGE 3

AZ0134-3S  FASE 3 / TERZO STADIO

AZ0134-BN004
INJECTOR PRESS
Stativo Porta Iniettori

AZ0134-BN070
BUSH TO FIX INJECTOR – DIAM. 17
Boccola Blocca Iniettore – Diam.17

AZ0134-BN071
BUSH TO FIX INJECTOR – DIAM. 19
Boccola Blocca Iniettore – Diam.19

AZ0134-BN072
BUSH TO FIX INJECTOR – DIAM. 21
Boccola Blocca Iniettore – Diam.21

AZ0134-BN073
BUSH TO FIX INJECTOR – DIAM. 22
Boccola Blocca Iniettore – Diam.22

AZ0134-BN074
BUSH TO FIX INJECTOR – DIAM. 23
Boccola Blocca Iniettore – Diam.23

AZ0134-BN075
BUSH TO FIX INJECTOR – DIAM. 26
Boccola Blocca Iniettore – Diam.26

AZ0134-BN076
BUSH TO FIX INJECTOR – DIAM. 29
Boccola Blocca Iniettore – Diam.29
AZ0134-3S  STAGE 3

AZ0134-3S  FASE 3 / TERZO STADIO

AZ0134-BN005
AIR PRESS
Pressa ad Aria

AZ0134-BN005-060
AIR PRESS TOOL – HOLE DIAM. 8
Attrezzo Pressa ad aria – foro diam. 8

AZ0134-BN005-061
AIR PRESS TOOL – HOLE DIAM. 3,80
Attrezzo Pressa ad aria – foro diam. 3,80

AZ0134-BN005-062
AIR PRESS PUNCH – HOLE DIAM. 8
Punzone Pressa ad aria – foro diam. 8

AZ0134-BN005-063
AIR PRESS PUNCH – HOLE DIAM. 3,80
Punzone Pressa ad aria – foro diam. 3,80
AZ0134-3S STAGE 3

AZ0134-3S FASE 3 / TERZO STADIO

AZ0134-BN010
COM 1 CABLE
Cavo COM 1

AZ0134-BN011
COM 2 CABLE
Cavo COM 2

AZ0134-BN012
COM 3 CABLE
Cavo COM 3

AZ0134-BN020
CONNECTING CABLE SOLENOID CRI
Cavo Collegamento Bobina CRI

AZ0134-BN021
CONNECTING CABLE SOLENOID CRI
Cavo Collegamento Bobina CRI

AZ0134-BN022
CONNECTING CABLE SOLENOID CRIN
Cavo Collegamento Bobina CRIN
AZ0134-3S  STAGE 3
AZ0134-3S  FASE 3 / TERZO STADIO

AZ0134-BN030
MITUTOYO COMPARATOR L – 12,7
Comparatore Mitutoyo L – 12,7

AZ0134-BN031
MITUTOYO COMPARATOR L – 12,7
Comparatore Mitutoyo L – 12,7

AZ0134-BN032
MITUTOYO COMPARATOR L-24,4 + CRI TOOL
Comparatore Mitutoyo L-24,4 + Attrezzo CRI

AZ0134-BN033
MITUTOYO COMPARATOR L-24,4 + CRIN TOOL
Comparatore Mitutoyo L-24,4 + Attrezzo CRIN
AZ0134-3S  FASE 3 / TERZO STADIO

AZ0134-3S  STAGE 3

AZ0134-BN040
RING NUT 27 X 1 – X AZ0134-BN32
Ghiera 27 x 1 – X AZ0134-BN032

AZ0134-BN041
RING NUT 26 X 0,75 – X AZ0134-BN33
Ghiera 26 x 0,75 – X AZ0134-BN033

AZ0134-BN042
POINTER L - 50
Tastatore L - 50

AZ0134-BN043
POINTER L - 20
Tastatore L - 20

AZ0134-BN044
POINTER L - 25
Tastatore L - 25

AZ0134-BN050
CERAMIC PLATE 1 MM
Piastrina Ceramica 1 mm

AZ0134-BN051
OREFICE PLATE DIAM. 19
Pastiglia Calibrata Diam 19
AZ0134-3S  STAGE 3
AZ0134-3S  FASE 3 / TERZO STADIO

AZ0134-BN052
CALIBRATION CILINDRE DIAM.10
Cilindro Calibrato diam. 10

AZ0134-BN053
HOLED CILINDRE
Cilindro Forato

AZ0134-BN023
CABLE TESTE RECLUTE
Cavo Prova Isolamento
AZ0134-3S  STAGE 3

AZ0134-3S  FASE 3 / TERZO STADIO

AZ0134-BN100
PRESS TO FIX THE INJECTOR
Morsa Blocca Iniettore
THICKNESS KIT
COMMON RAIL CALIBRATION THICKNESS KIT

THICKNESS KIT 3° PHASE

BOSCH

AZ0019-73CR
F00RJ02760

Kit composed of pieces of different sizes and shapes. In the spacer kit you will find:

• Hexagonal thickness

Hex : 22.00 mm.  
Hole : 18.00 mm.  
Thickness : 0.954 – 1.046 mm. (24 measures)  
Cut : each 0.004 mm  
Total: nr. 240 items

Hex : 22.00 mm.  
Hole : 19.00 mm.  
Thickness 1.24 – 1.35 mm. (12 measures)  
Cut: each 0.01 mm  
Total: nr. 120 items

• Washers

Diam : 22.80 mm.  
Hole : 19.50 mm.  
Thickness : 1.516 – 1.656 mm. (36 measures)  
Cut: each 0.004 mm  
Total: nr. 360 items

Diam : 7.70 mm.  
Hole : 4.40 mm.  
Thickness : 1.005 – 1.115 mm. (12 measures)  
Cut: each 0.010 mm  
Total: nr. 120 items

Diam : 4.20 mm.  
Hole : 2.30 mm.  
Thickness : 1.04 – 1.26 mm. (12 measures)  
Cut: each 0.02 mm  
Total: nr. 120 items
COMMON RAIL CALIBRATION THICKNESS KIT

THICKNESS KIT 3rd PHASE

**BOSCH**

AZ0019-75CR

Kit composed of pieces of different sizes and shapes. In the spacer kit you will find:

- **Hexagonal thickness**
  - **Hex**: 22.00 mm.
  - **Hole**: 18.00 mm.
  - Thickness: 0.90 – 1.13 mm. (24 measures)
  - Cut: each 0.01 mm
  - Total: nr. 240 items

  - **Hex**: 22.00 mm.
  - **Hole**: 19.00 mm.
  - Thickness: 1.00 – 1.11 mm. (12 measures)
  - Cut: each 0.01 mm
  - Total: nr. 120 items

- **Washers**
  - **Diam**: 22.80 mm.
  - **Hole**: 19.50 mm.
  - Thickness: 1.30 – 1.76 mm. (24 measures)
  - Cut: each 0.02 mm
  - Total: nr. 240 items

  - **Diam**: 7.70 mm.
  - **Hole**: 4.40 mm.
  - Thickness: 1.00 – 1.22 mm. (12 measures)
  - Cut: each 0.02 mm
  - Total: nr. 120 items

  - **Diam**: 4.20 mm.
  - **Hole**: 2.50 mm.
  - Thickness: 1.20 – 1.66 mm. (24 measures)
  - Cut: each 0.02 mm
  - Total: nr. 240 items
## COMMON RAIL CALIBRATION THICKNESS KIT

### THICKNESS KIT 3° PHASE

<table>
<thead>
<tr>
<th>Component</th>
<th>Diameter</th>
<th>Hole</th>
<th>Thickness Range</th>
<th>Cut</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Washers</td>
<td>15.70 mm</td>
<td>10.50 mm</td>
<td>1.194 – 1.286 mm</td>
<td>0.004 mm</td>
<td>240 items</td>
</tr>
<tr>
<td></td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.10 – 1.80 mm</td>
<td>0.02 mm</td>
<td>360 items</td>
</tr>
<tr>
<td>Pointers</td>
<td>2.30 mm</td>
<td></td>
<td>1.02 – 1.25 mm</td>
<td>0.01 mm</td>
<td>240 items</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8.409 – 8.541 mm</td>
<td>0.012 mm</td>
<td>120 items</td>
</tr>
</tbody>
</table>

Kit composed of pieces of different sizes and shapes. In the spacer kit you will find:

- **Washers**
- **Pointers**
**COMMON RAIL CALIBRATION THICKNESS KIT**

<table>
<thead>
<tr>
<th>THICKNESS KIT 3° PHASE</th>
<th>BOSCH</th>
</tr>
</thead>
</table>

*AZ0019-74CR*

Kit composed of pieces of different sizes and shapes. In the spacer kit you will find:

- **Washers**
  - Diam: 15.70 mm.  
  - Hole: 10.50 mm.  
  - Thickness: 1.10 – 1.33 mm. (24 measures)  
  - Cut: each 0.01 mm  
  - Total: nr. 240 items

- Diam: 5.30 mm.  
  - Hole: 3.50 mm.  
  - Thickness: 1.10 – 1.80 mm. (36 measures)  
  - Cut: each 0.02 mm  
  - Total: nr. 360 items

- **Pointers**
  - Diam: 2.30 mm.  
  - Thickness: 1.02 – 1.25 mm. (24 measures)  
  - Cut: each 0.01 mm  
  - Total: nr. 240 items

- Thickness: 8.409 – 8.541 mm. (12 measures)  
  - Cut: each 0.012 mm  
  - Total: nr. 120 items
The CALIBRATION THICKNESS KIT is used to modify the pressure of the calibration, start pressure and the quantity of fuel of common rail injectors. Reducing the thickness we obtain an increase in the opening pressure (Bar), the start pressure (Bar) and in the quantity of fuel (Cm³) of the injectors.

**AZ0019-61CR**
- Diam: 9.00 mm.
- Hole: 3.50 mm.
- Thickness: 0.78 – 1.25 mm. (48 measures)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 480 items
- **BOSCH**

**AZ0019-32CR**
- Diam: 7.70 mm.
- Hole: 4.40 mm.
- Thickness: 0.98 – 1.44 mm. (24 measures)
- Cut: each 0.02 mm.
- Box: 10 items x thickness
- Total: 240 items
- **BOSCH**

**AZ0019-77CR**
- Diam: 7.70 mm.
- Hole: 4.40 mm.
- Thickness: 0.985 – 1.385 mm. (41 measures)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 410 items
- **BOSCH**

**AZ0019-52CR**
- Diam: 6.75 mm.
- Hole: 3.50 mm.
- Thickness: 1.20 – 1.75 mm. (12 measures)
- Cut: each 0.05 mm.
- Box: 10 items x thickness
- Total: 120 items
- **DENSO**

**AZ0019-116CR**
- Diam: 6.75 mm.
- Hole: 3.50 mm.
- Thickness: 1.20 – 1.75 mm. (12 measures)
- Cut: each 0.05 mm.
- Box: 10 items x thickness
- Total: 120 items
- **DENSO**

**AZ0019-31CR**
- Diam: 6.40 mm.
- Hole: 2.50 mm.
- Thickness: 1.20 – 1.30 mm. (11 measures)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 110 items
- **BOSCH**

**AZ0019-78CR**
- Diam: 6.40 mm.
- Hole: 2.50 mm.
- Thickness: 1.00 – 1.40 mm. (41 measures)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 410 items
- **BOSCH**
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cut:</th>
<th>Box:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-79CR</td>
<td>Diam : 6.40 mm. Hole : 2.50 mm. Thickness : 1.089 – 1.368 mm. (32 measures)</td>
<td>each 0.009 mm.</td>
<td>10 items x thickness</td>
<td>320 items</td>
</tr>
<tr>
<td>AZ0019-65CR</td>
<td>Diam : 5.80 mm. Hole : 3.00 mm. Thickness : 1.10 – 1.65 mm. (12 measures)</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
<tr>
<td>AZ0019-64CR</td>
<td>Diam : 5.80 mm. Hole : 3.00 mm. Thickness : 1.10 – 1.60 mm. (26 measures)</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>260 items</td>
</tr>
<tr>
<td>AZ0019-80CR</td>
<td>Diam : 5.80 mm. Hole : 3.00 mm. Thickness : 1.75 – 2.30 mm. (12 measures)</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
<tr>
<td>AZ0019-81CR</td>
<td>Diam : 5.80 mm. Hole : 3.00 mm. Thickness : 1.60 – 2.30 mm. (36 measures)</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>360 items</td>
</tr>
<tr>
<td>AZ0019-46CR</td>
<td>Diam : 5.70 mm. Hole : 3.00 mm. Thickness : 1.25 – 1.80 mm. (12 measures)</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
<tr>
<td>AZ0019-47CR</td>
<td>Diam : 5.70 mm. Hole : 3.00 mm. Thickness : 1.26 – 1.72 mm. (24 measures)</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-82CR</td>
<td>Diam : 5.70 mm. Hole : 3.00 mm. Thickness : 1.20 – 1.90 mm. (36 measures)</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>360 items</td>
</tr>
<tr>
<td>AZ0019-17CR</td>
<td>Diam : 5.30 mm. Hole : 3.50 mm. Thickness : 0.90 – 1.90 mm. (21 measures)</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>210 items</td>
</tr>
<tr>
<td>Part Number</td>
<td>Diameter</td>
<td>Hole Diameter</td>
<td>Thickness Range</td>
<td>Cut Increment</td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>---------------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>AZ0019-08CR</td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.20 – 1.70 mm</td>
<td>0.02 mm</td>
</tr>
<tr>
<td>AZ0019-08CR5</td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.20 – 1.70 mm</td>
<td>0.05 mm</td>
</tr>
<tr>
<td>AZ0019-38CR</td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.40 – 1.86 mm</td>
<td>0.02 mm</td>
</tr>
<tr>
<td>AZ0019-83CR</td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.20 – 2.30 mm</td>
<td>0.10 mm</td>
</tr>
<tr>
<td>AZ0019-84CR</td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.20 – 2.30 mm</td>
<td>0.05 mm</td>
</tr>
<tr>
<td>AZ0019-85CR</td>
<td>5.30 mm</td>
<td>3.50 mm</td>
<td>1.00 – 2.00 mm</td>
<td>0.02 mm</td>
</tr>
<tr>
<td>AZ0019-15CR</td>
<td>5.30 mm</td>
<td>2.40 mm</td>
<td>1.20 – 1.70 mm</td>
<td>0.02 mm</td>
</tr>
<tr>
<td>AZ0019-20CR</td>
<td>5.30 mm</td>
<td>2.40 mm</td>
<td>1.72 – 1.90 mm</td>
<td>0.02 mm</td>
</tr>
</tbody>
</table>
# COMMON RAIL CALIBRATION THICKNESS KIT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diam:</th>
<th>Hole:</th>
<th>Thickness:</th>
<th>Cut:</th>
<th>Box:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-37CR</td>
<td>5.10 mm</td>
<td>3.00 mm</td>
<td>1.60 – 1.86 mm (14 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>140 items</td>
</tr>
<tr>
<td>AZ0019-35CR</td>
<td>5.10 mm</td>
<td>3.00 mm</td>
<td>1.00 – 1.20 mm (11 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-66CR</td>
<td>5.10 mm</td>
<td>3.00 mm</td>
<td>1.20 – 6.00 mm (21 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>210 items</td>
</tr>
<tr>
<td>AZ0019-86CR</td>
<td>5.10 mm</td>
<td>3.00 mm</td>
<td>1.15 – 2.30 mm (24 measures)</td>
<td>each 0.05 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-87CR</td>
<td>5.10 mm</td>
<td>3.00 mm</td>
<td>1.00 – 2.00 mm (51 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>510 items</td>
</tr>
<tr>
<td>AZ0019-88CR</td>
<td>5.10 mm</td>
<td>3.00 mm</td>
<td>1.00 – 1.70 mm (36 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>360 items</td>
</tr>
<tr>
<td>AZ0019-89CR</td>
<td>4.50 mm</td>
<td>2.50 mm</td>
<td>1.20 – 1.90 mm (36 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>360 items</td>
</tr>
<tr>
<td>AZ0019-36CR</td>
<td>4.50 mm</td>
<td>2.50 mm</td>
<td>1.64 – 1.86 mm (12 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
</tbody>
</table>
## COMMON RAIL CALIBRATION THICKNESS KIT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Cut</th>
<th>Box</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-12CR</td>
<td>Diam: 4.50 mm. Hole: 2.50 mm. Thickness: 1.20 – 1.70 mm.</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-12CR5</td>
<td>Diam: 4.50 mm. Hole: 2.50 mm. Thickness: 1.20 – 1.70 mm</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-14CR</td>
<td>Diam: 4.20 mm. Hole: 2.30 mm. Thickness: 1.20 – 1.70 mm.</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-14CR5</td>
<td>Diam: 4.20 mm. Hole: 2.30 mm. Thickness: 1.20 – 1.70 mm</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-44CR</td>
<td>Diam: 4.20 mm. Hole: 2.30 mm. Thickness: 1.70 – 1.96 mm.</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>140 items</td>
</tr>
<tr>
<td>AZ0019-90CR</td>
<td>Diam: 4.20 mm. Hole: 2.30 mm. Thickness: 1.15 – 2.30 mm.</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-91CR</td>
<td>Diam: 4.20 mm. Hole: 2.30 mm. Thickness: 0.80 – 1.64 mm.</td>
<td>each 0.02 mm.</td>
<td>10 items x thickness</td>
<td>430 items</td>
</tr>
<tr>
<td>AZ0019-118CR</td>
<td>Diam: 4.20 mm. Hole: 2.30 mm. Thickness: 1.15 – 2.30 mm.</td>
<td>each 0.05 mm.</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
</tbody>
</table>
### COMMON RAIL CALIBRATION THICKNESS KIT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diameter</th>
<th>Hole Diameter</th>
<th>Thickness Range</th>
<th>Cut Increment</th>
<th>Box Content</th>
<th>Total Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-42CR</td>
<td>4.00 mm</td>
<td>2.30 mm</td>
<td>1.20 – 1.70 mm</td>
<td>0.02 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-43CR</td>
<td>4.00 mm</td>
<td>2.30 mm</td>
<td>1.72 – 1.90 mm</td>
<td>0.02 mm</td>
<td>10 items x thickness</td>
<td>100 items</td>
</tr>
<tr>
<td>AZ0019-92CR</td>
<td>4.00 mm</td>
<td>2.30 mm</td>
<td>1.15 – 2.30 mm</td>
<td>0.05 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-93CR</td>
<td>4.00 mm</td>
<td>2.30 mm</td>
<td>1.20 – 1.90 mm</td>
<td>0.02 mm</td>
<td>10 items x thickness</td>
<td>360 items</td>
</tr>
<tr>
<td>AZ0019-120CR</td>
<td>2.30 mm</td>
<td>1.75 mm</td>
<td>1.84 – 2.30 mm</td>
<td>0.02 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-119CR</td>
<td>1.50 mm</td>
<td>0.95 mm</td>
<td>0.95 – 1.50 mm</td>
<td>0.05 mm</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
<tr>
<td>AZ0019-121CR</td>
<td>1.50 mm</td>
<td>0.95 mm</td>
<td>0.98 – 1.44 mm</td>
<td>0.02 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
</tbody>
</table>
COMMON RAIL CALIBRATION THICKNESS KIT

**SOLENOID WASHERS KIT:** useful to modify the solenoid power. Reducing/increasing the thickness of the washer solenoid power reduces/raises.

**AZ0019-09CR**
- Diameter: 15.70 mm.
- Hole: 10.50 mm.
- Thickness: 1.20 – 1.30 mm. (11 measures)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 110 items

**AZ0019-39CR**
- Diameter: 15.70 mm.
- Hole: 10.50 mm.
- Thickness: 1.10 – 1.20 mm. (11 measures)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 110 items

**AZ0019-94CR**
- Diameter: 15.70 mm.
- Hole: 10.50 mm.
- Thickness: 1.19 – 1.33 mm. (36 measures)
- Cut: each 0.004 mm.
- Box: 10 items x thickness
- Total: 360 items
### COMMON RAIL CALIBRATION THICKNESS KIT

**Solenoid Washers Kit:** useful to modify the solenoid power. Reducing/increasing the thickness of the washer solenoid power reduces/raises.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diameter</th>
<th>Hole</th>
<th>Thickness Range</th>
<th>Cut</th>
<th>Box Quantity</th>
<th>Total Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-95CR</td>
<td>24.30 mm</td>
<td>21.50 mm</td>
<td>1.20 – 1.74 mm (28 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>280 items</td>
</tr>
<tr>
<td>AZ0019-96CR</td>
<td>24.30 mm</td>
<td>21.50 mm</td>
<td>1.20 – 1.73 mm (54 measures)</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>540 items</td>
</tr>
<tr>
<td>AZ0019-97CR</td>
<td>24.30 mm</td>
<td>21.50 mm</td>
<td>1.435 – 1.70 mm (54 measures)</td>
<td>each 0.05 mm</td>
<td>10 items x thickness</td>
<td>540 items</td>
</tr>
<tr>
<td>AZ0019-54CR</td>
<td>24.30 mm</td>
<td>21.50 mm</td>
<td>1.50 – 1.72 mm (12 measures)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
<tr>
<td>AZ0019-55CR</td>
<td>24.30 mm</td>
<td>21.50 mm</td>
<td>1.50 – 1.72 mm (23 measures)</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>230 items</td>
</tr>
<tr>
<td>AZ0019-11CR</td>
<td>23.70 mm</td>
<td>19.00 mm</td>
<td>1.00 – 1.10 mm (11 measures)</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-18CR</td>
<td>23.70 mm</td>
<td>19.00 mm</td>
<td>0.90 – 1.00 mm (11 measures)</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-30CR</td>
<td>23.70 mm</td>
<td>19.00 mm</td>
<td>1.10 – 1.20 mm (11 measures)</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
</tbody>
</table>
### COMMON RAIL CALIBRATION THICKNESS KIT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diameter (mm)</th>
<th>Hole (mm)</th>
<th>Thickness (mm)</th>
<th>Cut</th>
<th>Box</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-71CR</td>
<td>23.70</td>
<td>19.00</td>
<td>0.90 – 1.25</td>
<td>0.01</td>
<td>10</td>
<td>360</td>
</tr>
<tr>
<td>AZ0019-98CR</td>
<td>23.70</td>
<td>19.00</td>
<td>0.86 – 1.24</td>
<td>0.004</td>
<td>10</td>
<td>960</td>
</tr>
<tr>
<td>AZ0019-99CR</td>
<td>22.80</td>
<td>19.50</td>
<td>1.30 – 1.80</td>
<td>0.01</td>
<td>10</td>
<td>510</td>
</tr>
<tr>
<td>AZ0019-28CR</td>
<td>22.80</td>
<td>19.50</td>
<td>1.34 – 1.76</td>
<td>0.02</td>
<td>10</td>
<td>220</td>
</tr>
<tr>
<td>AZ0019-70CR</td>
<td>22.80</td>
<td>19.50</td>
<td>1.512 – 1.684</td>
<td>0.004</td>
<td>10</td>
<td>440</td>
</tr>
<tr>
<td>AZ0019-48CR</td>
<td>20.00</td>
<td>13.70</td>
<td>0.80 – 1.20</td>
<td>0.02</td>
<td>10</td>
<td>210</td>
</tr>
</tbody>
</table>

**Cut:** each 0.01 mm.  
**Box:** 10 items x thickness  
**Total:** number of items
<table>
<thead>
<tr>
<th>Model</th>
<th>Hex (mm)</th>
<th>Hole (mm)</th>
<th>Thickness (mm)</th>
<th>Cut</th>
<th>Box</th>
<th>Total Items</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AZ0019-19CR</strong></td>
<td>22.00</td>
<td>19.00</td>
<td>0.90 – 1.00</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td><strong>AZ0019-10CR</strong></td>
<td>22.00</td>
<td>19.00</td>
<td>1.00 – 1.10</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td><strong>AZ0019-24CR</strong></td>
<td>22.00</td>
<td>19.00</td>
<td>1.30 – 1.40</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td><strong>AZ0019-100CR</strong></td>
<td>22.00</td>
<td>19.00</td>
<td>0.90 – 1.40</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>510 items</td>
</tr>
<tr>
<td><strong>AZ0019-101CR</strong></td>
<td>22.00</td>
<td>19.00</td>
<td>1.21 – 1.38</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>180 items</td>
</tr>
<tr>
<td><strong>AZ0019-25CR</strong></td>
<td>22.00</td>
<td>18.00</td>
<td>1.00 – 1.10</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td><strong>AZ0019-27CR</strong></td>
<td>22.00</td>
<td>18.00</td>
<td>0.90 – 1.00</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td><strong>AZ0019-102CR</strong></td>
<td>22.00</td>
<td>18.00</td>
<td>0.90 – 1.12</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>510 items</td>
</tr>
</tbody>
</table>
COMMON RAIL CALIBRATION THICKNESS KIT

AZ0019-49CR
Hex : 18,00 mm.
Hole : 14,00 mm.
Thickness : 0,90 – 1,13 mm. (24 measures)
Cut: each 0.01 mm.
Box : 10 items x thickness
Total : 240 items

AZ0019-103CR
Hex : 22,00 mm.
Hole : 18,00 mm.
Thickness : 0,950 – 1,054 mm. (27 meas)
Cut: each 0.004 mm.
Box : 10 items x thickness
Total : 270 items

AZ0019-53CR
Oct : 23,20 mm.
Hole : 20,00 mm.
Thickness : 2,99 – 3,10 mm. (12 measures)
Cut: each 0.01 mm.
Box : 10 items x thickness
Total : 120 items

AZ0019-63CR
Oct : 23,20 mm.
Hole : 20,00 mm.
Thickness : 2,99 – 3,15 mm. (17 measures)
Cut: each 0.01 mm.
Box : 10 items x thickness
Total : 170 items
**COMMON RAIL CALIBRATION THICKNESS KIT**

**KIT OF POINTERS:** to modify the conjunction between the upper level of the ball-holder and the smooth part of the holding-ball-valve. It enables the regulation of the solenoid and so the movement of the ball.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Diam</th>
<th>Thickness</th>
<th>Cut</th>
<th>Box</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-07CR</td>
<td>5.90 mm</td>
<td>8.40 – 8.50 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-104CR</td>
<td>5.90 mm</td>
<td>8.40 – 8.70 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>310 items</td>
</tr>
<tr>
<td>AZ0019-105CR</td>
<td>5.90 mm</td>
<td>8.277 – 8.571 mm</td>
<td>each 0.012 mm</td>
<td>10 items x thickness</td>
<td>260 items</td>
</tr>
<tr>
<td>AZ0019-29CR</td>
<td>5.90 mm</td>
<td>8.50 – 8.70 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>210 items</td>
</tr>
<tr>
<td>AZ0019-13CR</td>
<td>5.80 mm</td>
<td>8.40 – 8.50 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>110 items</td>
</tr>
<tr>
<td>AZ0019-21CR</td>
<td>5.80 mm</td>
<td>8.50 – 8.70 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>210 items</td>
</tr>
<tr>
<td>AZ0019-106CR</td>
<td>5.80 mm</td>
<td>8.277 – 8.571 mm</td>
<td>each 0.012 mm</td>
<td>10 items x thickness</td>
<td>260 items</td>
</tr>
<tr>
<td>AZ0019-117CR</td>
<td>5.50 mm</td>
<td>8.20 – 8.70 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>510 items</td>
</tr>
<tr>
<td>AZ0019-123CR</td>
<td>5.50 mm</td>
<td>8.40 – 8.70 mm</td>
<td>each 0.01 mm</td>
<td>10 items x thickness</td>
<td>310 items</td>
</tr>
<tr>
<td>AZ0019-50CR</td>
<td>Thickness : 3.75 – 4.90 mm (24 meas)</td>
<td>each 0.05 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
<td></td>
</tr>
<tr>
<td>AZ0019-51CR</td>
<td>Thickness : 3.80 – 4.90 mm (12 meas)</td>
<td>each 0.10 mm</td>
<td>10 items x thickness</td>
<td>120 items</td>
<td></td>
</tr>
<tr>
<td>AZ0019-45CR</td>
<td>Thickness : 7.760 – 8.18 mm (22 meas)</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>220 items</td>
<td></td>
</tr>
</tbody>
</table>
COMMON RAIL CALIBRATION THICKNESS KIT

**AZ0019-16CR**
- Diam: 2.25 mm.
- Thickness: 1.14 – 1.25 mm. (12 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-26CR**
- Diam: 2.25 mm.
- Thickness: 0.95 – 1.13 mm. (19 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 190 items

**AZ0019-40CR**
- Diam: 2.30 mm.
- Thickness: 0.90 – 1.01 mm. (12 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-72CR**
- Diam: 2.30 mm.
- Thickness: 1.00 – 1.36 mm. (37 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 370 items

**AZ0019-41CR**
- Diam: 2.30 mm.
- Thickness: 1.02 – 1.13 mm. (12 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-62CR**
- Diam: 5.40 mm.
- Thickness: 1.155 – 1.265 mm. (12 m)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-107CR**
- Diam: mm.
- Thickness: 3.80 – 4.90 mm. (12 meas)
- Cut: each 0.10 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-108CR**
- Diam: mm.
- Thickness: 3.75 – 4.90 mm. (24 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 240 items

**AZ0019-72CR**
- Diam: 2.30 mm.
- Thickness: 1.00 – 1.36 mm. (37 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 370 items

**AZ0019-107CR**
- Diam: mm.
- Thickness: 3.80 – 4.90 mm. (12 meas)
- Cut: each 0.10 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-108CR**
- Diam: mm.
- Thickness: 3.75 – 4.90 mm. (24 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 240 items

**AZ0019-72CR**
- Diam: 2.30 mm.
- Thickness: 1.00 – 1.36 mm. (37 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 370 items

**AZ0019-41CR**
- Diam: 2.30 mm.
- Thickness: 1.02 – 1.13 mm. (12 meas)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 120 items

**AZ0019-62CR**
- Diam: 5.40 mm.
- Thickness: 1.155 – 1.265 mm. (12 m)
- Cut: each 0.01 mm.
- Box: 10 items x thickness
- Total: 120 items
# CALIBRATION THICKNESS KIT

## CATERPILLAR

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diameter</th>
<th>Thickness</th>
<th>Quantity</th>
<th>Cut</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-110CR</td>
<td>10.00 mm</td>
<td>2.00 – 2.50 mm</td>
<td>110 items</td>
<td>each 0.05 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
<tr>
<td>AZ0019-113CR</td>
<td>10.00 mm</td>
<td>2.10 – 2.45 mm</td>
<td>360 items</td>
<td>each 0.01 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
<tr>
<td>AZ0019-112CR</td>
<td>mm</td>
<td>8.277 – 8.571 mm</td>
<td>260 items</td>
<td>each 0.012 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
<tr>
<td>AZ0019-114CR</td>
<td>26.00 mm</td>
<td>2.04 – 2.50 mm</td>
<td>240 items</td>
<td>each 0.02 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
<tr>
<td>AZ0019-115CR</td>
<td>26.00 mm</td>
<td>2.04 – 2.50 mm</td>
<td>470 items</td>
<td>each 0.01 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
</tbody>
</table>

## PINS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Diameter</th>
<th>Hole</th>
<th>Thickness</th>
<th>Quantity</th>
<th>Cut</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-114CR</td>
<td>26.00 mm</td>
<td>22.50 mm</td>
<td>2.04 – 2.50 mm</td>
<td>240 items</td>
<td>each 0.02 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
<tr>
<td>AZ0019-115CR</td>
<td>26.00 mm</td>
<td>22.50 mm</td>
<td>2.04 – 2.50 mm</td>
<td>470 items</td>
<td>each 0.01 mm</td>
<td>Box: 10 items x thickness</td>
</tr>
</tbody>
</table>
## UNIT INJECTORS THICKNESS KIT

### UNIT INJECTOR THICKNESS KIT

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Hole</th>
<th>Thickness</th>
<th>Cut</th>
<th>Box</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>AZ0019-23CR</td>
<td>9.20 mm</td>
<td>3.00 mm</td>
<td>1.00+1.01 – 1.45 mm</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-33CR</td>
<td>7.30 mm</td>
<td>3.00 mm</td>
<td>1.00+1.01 – 1.45 mm</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-58CR</td>
<td>5.80 mm</td>
<td>2.94 mm</td>
<td>2.24 – 2.94 mm</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>360 items</td>
</tr>
<tr>
<td>AZ0019-34CR</td>
<td>5.50 mm</td>
<td>3.00 mm</td>
<td>1.00+1.01 – 1.45 mm</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>240 items</td>
</tr>
<tr>
<td>AZ0019-57CR</td>
<td>7.50 mm</td>
<td>3.00 mm</td>
<td>0.30+0.42 – 0.70 + 1.00+1.28+1.50 mm</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>190 items</td>
</tr>
<tr>
<td>AZ0019-56CR</td>
<td>7.50 mm</td>
<td>3.00 mm</td>
<td>0.30+0.42 – 0.58 mm</td>
<td>each 0.02 mm</td>
<td>10 items x thickness</td>
<td>100 items</td>
</tr>
<tr>
<td>AZ0019-59CR</td>
<td>5.00 mm</td>
<td>2.50 mm</td>
<td>0.502 – 0.995 mm</td>
<td>each 0.017 mm</td>
<td>10 items x thickness</td>
<td>300 items</td>
</tr>
<tr>
<td>AZ0019-111CR</td>
<td>4.35 mm</td>
<td>1.90 mm</td>
<td>1.15 – 1.70 mm</td>
<td>each 0.05 mm</td>
<td>10 items x thickness</td>
<td>120 items</td>
</tr>
</tbody>
</table>
TEST INJECTOR
DIESEL &
GASOLINE
TEST INJECTOR

AAE060-0H HAND TEST INJECTOR

Hand test injector with valve.

Similar Bosch 0.681.200.502

The hand test injector is composed of:

• Manometer 0-400 or 0-600 Bar with glycerine in Bar and in PSI;
• Standard pipes 14x14 and 12x12;
• Manual lever;
• Filter;
• Tank;
• Measure: mm 415 x 540 x 130, weight kg. 7.00.

AAE060-0A SUCHTION DEVICE

AAE060-0A – SUCHTION DEVICE

Similar Bosch 0.684.200.702
DSC TESTER TO CLEAN INJECTOR

Tester to clean inside the injector
Used to rinse-off micro particles from diesel parts after being ultrasonically cleaned.
Up to 1100 bar system
Useful and recommended before to mount the nozzleholders on the test bench.
It avoids to dirty and so also to damage the measuring-cell for the test bench.
With ultrasonic cleaning tank UB15s, capability 1.75 lt, with heating system
Testing liquid BL9005-00
Liquid for ultrasonic tank BL9008-00

UB15s – ULTRASONIC TANK 1.75LT

OPTIONAL

CRIN Adaptors
Trolley version Small
**TEST INJECTOR**

**DS2i-20 DIESEL TEST INJECTOR**

**DS2i-20**
- Diesel test injector
- It tests nr. 1 injector at time
- Bosch – Delphi – Siemens – Denso
- Electromagnetic and Piezo
- Graduated and led illumindated tubes to check the volumes with automatic drainage
- With test plans
- Automatic programs completely customise
- Up to 1850 bar
- User friendly
- Testing liquid BL9006-00

**DS2i-21**
- It has the same features of DS2i-20 with in addition:
  - Program to wash inside the injectors
  - Ultrasonic tank UB15s
  - Ultrasonic tank 1,75Lt with heating system,
    - Ultrasound frequency 42KHZ
  - Chemical cleaning liquid to wash inside the injector(BL9005-00)
  - Ultrasonic liquid (BL9006-00 o BL9001-00)

**OPTIONAL**

- CRIN Adaptors
- Trolley version Large
GS4-20

Tester to check gasoline injectors (direct injection)
GASOLINE+ GPL + NATURAL GAS
(no gasoline piezo injector)
It tests nr. 4 injectors at time
Bosch – Delphi – Siemens – Denso
Graduated and led illumindated tubes to check the volumes with automatic drainage
With test plans
Automatic programs completely customise
With ultrasonic tank ub-15s (lt. 1.75 – heating – ultrasound 42KHZ)
Revers cleaning program
Adaptors Exclusive version
User friendly
Testing liquid and Ultrasonic liquid BL9007-00- BL9008-00

Optional:
* Trolley version Small
TEST INJECTOR
GASOLINE TEST INJECTOR

GD1i-X0
Tester to check gasoline injectors (direct injection)
BOBINA + PIEZO
(no gpl – gas – natural gas)
It tests nr. 4 injectors at time
Bosch – Delphi – Siemens – Denso
Graduated and led illuminated tubes to check the volumes with automatic drainage
With test plans
Automatic programs completely customise
Up to 30-300 bar
Kit of adaptors
User friendly
Testing liquid BL9007-00

GD1i-X1
It has the same features of GD1i-X0 in addition:
Ultrasonic tank UB15s
With capability of 1,75Lt with heating system,
Ultrasound frequency 42KHZ
Ultasonic liquid BL9008-00 and testing liquid BL9007-00

OPTIONAL
Trolley version Large
LIQUIDS FOR TEST INJECTORS

BL9006-00 – TESTING LIQUID DIESEL 4 LT

BL9007-00 – TESTING LIQUID GASOLINE 4 LT

BL9005-00 – SPECIAL CHEMICAL TREATMENT FOR INSIDE CLEANING INJECTOR PROGRAM – DIESEL - 2 LT

BL9008-00 – ULTRASONIC LIQUID - 4 LT

BL9003-00 – OIL FOR TEST BENCH FUCHS 20 LT
Oil for test bench
APPROVED AND RECOMMENDED BY BOSCH!

BL9003-01 – OIL FOR TEST BENCH FUCHS 20 LT
Oil for test bench
SIMULATORS

TO TEST COMMON RAIL INJECTORS

1.1 AZ0134-13

This tester controls the electrical part of all common rail injectors Bosch, Delphi, Siemens and Denso, Electromagnetic (Bobbin) or Piezoelectric (Piezo).

The instrument must be connected to any hand or electronic test injector, in this way it is possible to check the SPRAY of the injector.

The application is intuitive and user-frendly.

You can choose two different type of tests: “Time Test” or “Stroke Test”.

In both cases the tests are the same of a test bench with common rail simulator.

After the selection of the type of injector (Bobbin or Piezo) and of the type of test (Time/Stroke) you must choose within 3 different tests:

   a) MAIN INJECTION
   b) PRE-INJECTION
   c) PILOT INJECTION

All the parameters have been pre-installed; anyway it is possible to enter in the software easly and modify all the values also if one test is running.

The parameters that can be modified are:

1. Frequency “Hz”
2. Opening time“ms”
3. Energy Voltage“V”

The tester is sold with nr. 4 cables for Bobbins and Piezo – the cables are similar to originals.

Feeder energy voltage: 220V.
SIMULATORS

TO TEST COMMON RAIL INJECTORS

1.2

**AZ0220-CRR**

BOBBIN CONTROL
BALL-LIFT TEST

The tester measures the mechanical movement of the ball inside the bobbin of common rail injectors ELECTROMAGNETIC Bosch (CRI and CRIN) and some Denso.

The tester does an electrical test of the bobbin. It measures the absorption of the bobbin in Ohms; hundredth of Ohms (0.00 Ω).

Attention: classic multimeters measure the absorption in tenth of Ohm (0.0 Ω)

To measure the ball-lift you must connect the instrument to a comparator bearing:

• AAZ006-KIT Comparator bearing with base in metal with digital centesimal comparator (AAZ006-MIL)
• AAZ002-KIT Comparator bearing with base in granite with digital centesimal comparator (AAZ006-MIL)
• AZ0352-CR Common rail injectors revision press; You must add the digital centesimal comparator (AAZ006-MIL).

The measure of the ball lift is visualised on the dispay of the comparator.

The results of the electrical test of the bobbin are visualised on the tester display.
SIMULATORS

TO TEST COMMON RAIL INJECTORS

1.3 AZCBCR-1

The tester does the following tests on NR. 1 COMMON RAIL INJECTOR:

• Quality of the bobbin – it tells the resistance and the power of the magnet/piezoelectric.
• It permits to stimulate the injectors and tests with hand test injectors
• It permits to test PIEZO injectors on EPS 200 or similars
• It permits to measure the ball-lift if connected with a comparator bearing (AZ0352-CR or AAZ006-KIT)

OPTIONAL:

- AZCBCR-RSP – RSP sensor to measure reaction-time of the injector.
SIMULATORS

TO TEST COMMON RAIL INJECTORS

1.4 AZCOCR-4

The test does the following tests on **NR. 4 COMMON RAIL INJECTORS**:

• Quality of the bobbin – it tells the resistance and the power of the magnet/piezo.
• It permits to test on the test bench till 4 common rail injectors at the same time

**ATTENTION: THIS SIMULATOR DOES NOT PRODUCE PRESSURE. IT CAN ONLY READ THE PRESSURE PRODUCED BY ANOTHER SIMULATOR**

• It permits to test PIEZO injectors on BOSCH EPS 815
• It permits to measure the ball-lift if connected with a comparator bearing (AZ0352-CR o AAZ006-KIT)

**OPTIONAL:**

- AZCOCR-RSP – RSP sensor to measure the reaction-time of the injector
- DRV/BAR – It is possible to update the tester to produce the pressure
- AAZ034-KIT - Kit with rail to mount the injectors on the test bench
- AAZ034-EX - Kit to mount the injectors on the test bench version EXCLUSIVE

!!**ATTENTION!!**

This tester has been produced to enforce other equipement/simulator of different brands to test PIEZO injectors
SIMULATORS

COMMON RAIL INJECTORS CONTROL

1.5 AZCOCR-4-SIM

COMMON RAIL SIMULATORS

Our simulator can do the following most important tests on 4 COMMON RAIL INJECTORS at the same time:

- Quality of the bobbins – it measures the resistance and the power of the magnet/Piezo.
- It can test till 4 common rail injectors Electromagnetic and Piezo at the same time.
- It measures the ball-lift movement if connected to a comparator bearing (AZ0352-CR o AAZ006-KIT)
- It produces and controls, autonomously and manually, the pressure.

The most important tests are:
1. Electric test
2. Opening test (NOP)
3. Leak test
4. Nr. 4 quantity tests (VE-LL-EM-VL)

The simulator tests also common rail PUMPS:
- It drives pressure regulators and valves.

It can be mounted on every kind of test benches. It is not necessary any particular kind of power (KW) of the test bench.

The simulator is sold with a KIT RAIL (AAZ034-KIT) with rilsan pipes to mount injectors on the test bench.

OPTIONAL:

- AZCOCR-RSP – RSP sensor to measure the reaction-time of the injector.
- AAZ034-EX - Kit to mount the injectors on the test bench EXCLUSIVE version.
SIMULATORS

COMMON RAIL INJECTORS CONTROL

1.5.1 MATERIAL SOLD IN AZCBCR-4-SIM

Simulator AZCBCR-4-SIM with all cables.

KIT RAIL (AAZ034-KIT) – Kit rail base to mount 4 common rail injectors on the test bench.

The kit rail is composed of:

- Nr. 1 AAZ034-11 - Rail
- Nr. 4 AAT099-CR2 – Rilsan pipes
- Nr. 4 AAZ034-09L – Quick connection
- Nr. 8 AAZ010-10AN – Dumpers
- Nr. 7 BR0001-00 – Connection rail-injectors 14x14M
SIMULATORS

COMMON RAIL INJECTORS CONTROL

Nr. 6 AAZ034-12 – Cap M14

Nr. 1 AAZ034-11A – Kit of 2 adjustable supports to fix the rail

Nr. 1 AAZ034-12A – Protection kit

Nr. 1 AAZ034-10A – Nuts and bolts

Nr. 1 AAZ034-13 – False pressure regulator Bosch

Nr. 1 BR0007-00 - Washers
Nr. 7 BR0006-00 - Washers

Nr. 1 AAT000-FX – Flex. pipe 6x2x600 14x14 Similar: 1.680.750.000
Nr. 4 AAT005-00 – Flex. pipe 6x2x300 14x14

Nr. 5 AAZ010-31 – Connection for high pressure pipes 12Fx14M

Nr. 1 AAZ034-20 – Adaptor for pressure sensor pressione Bosch/Siemens

Nr. 1 AAZ034-19 – Adaptor for pressure regulator on pump SIEMENS
SIMULATORS

COMMON RAIL INJECTORS CONTROL

1.5.2  OPTIONAL FOR AZCBCR-4-SIM

- AZCBCR-RSP

AZCBCR-RSP – RSP Sensor – Sensor to measure the time of response of the injector.

- AAZ034-EX

AAZ034-EX - KIT EXCLUSIVE – Kit to mount common rail injectors EXCLUSIVE version with TRANSPARENT GLASSES that permits to see the spray of the injectors.

The kit rail includes, in addition to the transparent glasses, the appropriate adaptors for each king of injector, fixing plate and 1 mt and 30 cm of rilsan pipes “multipipes” to connect with burettes.
GLASS KIT FOR COMMON RAIL SIMULATORS

Ours glasses permits to visualize the spray of common rail injectors and can be mounted on every kind of test benches and simulators. They must be fixed directly on the injectors.

Orders codes:

**AAZ038-BASE**
Kit BASE to mount nr. 1 glass on nr. 1 injector

**AAZ038-BASE-KIT**
Kit BASE complete to mount nr. 4 glasses on nr. 4 injectors

**AAZ038-EX**
Kit exclusive COMPLETE to mount on test bench nr. 1 injector. The kit is composed of nr. 2 glass in plexiglass with glass-bush with nr. 2 adaptors for pulverizer 7 and 9mm (AAZ038-AD7 – AAZ038-AD9)

**AAZ038-BIC7**
nr. 1 glass in plexiglas with glass-bush with nr. 1 adaptor x pulverizer of 7mm (AAZ038-AD7)

**AAZ038-BIC9**
nr. 1 glass in plexiglas with glass-bush with nr. 1 adaptor x pulverizer of 9mm (AAZ038-AD9)

**AAZ038-AD7**
adaptor x glass for pulverizer of 7mm

**AAZ038-AD9**
adaptor x glass for pulverizer of 9 mm

**AAZ038-17**
inner reduction in pvc of 17 for AAZ038-BIC7 – AAZ038-BIC9

**AAZ038-19**
inner reduction in pvc of 19 for AAZ038-BIC7 – AAZ038-BIC9

**AAZ038-21**
nr. inner reduction in pvc of 21 for AAZ038-BIC7 – AAZ038-BIC9
GLASS KIT FOR
COMMON RAIL SIMULATORS

AAZ038-EX

NR. 1 glass in plexiglas with glass-bush with nr. 1 adaptor for pulverizer of 7mm (AAZ038-BIC7)
NR. 1 glass in plexiglas with glass-bush with nr. 1 adaptor for pulverizer of 9mm (AAZ038-BIC9)
NR. 3 inner reductions of 17, 19 and 21
(AAZ038-17 – AAZ038-19 – AAZ038-21)

AAZ038-BASE-KIT

Kit to mount nr. 4 glasses for CR injectors

Nr. 4 plexiglas glasses with glass-bushes with its adaptors and reductions

AAZ034-SUP

Stand kit to mount on test bench common rail injectors. (without plexiglass glasses).

AAZ034-EX

Stand kit to mount on test bench common rail injectors complete with 4 plexiglas glasses with glass-bushes.
COMMON RAIL TOOLS

TOOLS

TO WORK WITH OUR SIMULATORS
2. **TOOLS TO WORK WITH** AZCOCR-4-SIM

2.1 **CLAMPS FOR COMMON RAIL INJECTORS**

- AZ0309-02 Man diam: 29mm
- AZ0309-04A Renault Premium 420cv diam: 32mm
- AZ0309-05N Fiat Tector – Cummins diam: 26.5mm
- AZ0309-06 Denso diam: 27mm
- AZ0309-07 Denso diam: 23.5mm
- AZ0309-08 Man diam: 26mm
- AZ0309-09 Man - Temsa diam: 28mm
- AZ0309-10 Cummins diam: 26.5mm
- AZ0309-11 Siemens VDO solo recupero
- AZ0309-12 Sisu diam: 26.6mm
- AZ0309-13 Delphi Smart Injector diam: 24mm
- AZ0309-14 Denso diam: 24mm
- AZ0309-15 Denso - only back leak - diam: 18.5mm
- AZ0309-16 Scania -2 pin - diam: 40.5mm
- AZ0309-17 Deutz -only back leak- diam: 21mm
- AZ0309-18 Cursor 9 -only back leak- diam: 35mm
- AZ0309-19 Bosch MTU -only back leak- diam: 26mm
- AZ0309-20 Scania 4 PIN -only back leak- diam: 35mm
2.2 BRACKET AND SUPPORTS

- **AS0003-00** Bracket Bosch ISO
  Similar: 1.688.010.124

- **AAE157-08** Bracket diam 50 for CP1 pump
  Similar: 1.685.720.062

- **AAE001-02** Bracket for CP3 pump

- **AAE001-03** Bracket with ring for CP3 pump Mercedes

- **AAE000-04** Bracket for Delphi pump on Ford and Renault Megane

- **AAE000-04A** Bracket for Delphi pump (2 HOLES)
COMMON RAIL TOOLS

AAE000-04B  Bracket for Delphi pump with holes

AAE001-NIP  Bracket for common rail Denso HP2/3 pump on Ford and Fiat

AAE001-CP1H3  Bracket for CP1 H3 pump

AAE001-CP4  Bracket for CP4 pump

AAE002-CR  Bracket for Nissan Qashqai pump

AAE003-CR  Bracket for Siemens 5SW40157 pump

AAE004-CR  Bracket for Siemens 5SW40565 pump

AAE001-MERC  Bracket for CP1 Mercedes pump

AAZ026-03  Kit flange and connections for CP1 Mercedes pump
2.3 ADAPTORS FOR PRESSURE SENSOR

AAZ034-08 Adaptor pressure sensor CP3

AAZ034-15 Adaptor pressure sensor CP1H/CP3

AAZ034-07 Adaptor pressure sensor DELPHI

AAZ034-16 Adaptor pressure sensor SIEMENS

AAZ034-17 Adaptor pressure sensor DENSO

AAZ034-20 Adaptor pressure sensor SIEMENS - BOSCH
2.4 ADAPTORS FOR PRESSURE REGULATOR AND CONNECTIONS

- **AAZ034-19** Adaptor pressure sensor SIEMENS pump
- **AAZ034-13** False pressure regulator for CP1 pump
- **AAZ034-22** False pressure regulator for Denso HP3 – CP3 pump
- **AAZ034-18** Connection to fix high pressure pipes with Siemens pump
- **AAZ034-21** Connection for pressure Siemens with supply valve
- **AAZ034-CP4** Connection to fix high pressure pipes on CP4 pumps
2.5 COMMON RAIL TOOLS

2.5.1 MOTORING COUPLING

- **AG0000-CP4** Screw 18x1.5 for coupling cone 25 for CP4 pumps

- **AG0131-CR8** Coupling for CP1 pumps – Cut 8mm

- **AG0132-CR9** Coupling for CP1 pumps – Cut 9mm

- **AG0133-CR10** Coupling for Denso/Siemens pumps on Ford and Fiat – Cut 10mm

- **AG0134-C.D8** Coupling for Delphi pumps – CUT 8mm

- **AG0000-CP4** Screw for coupling cone 25 for CP4 pumps

- **AG0020-01** Coupling cone 20 with puller
  - L = 100m
  - Similar: 1.686.430.024

- **AG0025-02** Coupling cone 25 with puller
  - Similar: 1.686.430.026

- **AG0025-CP4** Coupling cone 25 for CP4 pumps.
  - Coupling composed of: AG0025-02 + AG0000-CP4 screw for CP4 pumps

- **AG0019-00** Coupling for test bench Bosch
  - Similar: 1.686.401.028
  - Hole 10mm or Hole 12mm for EPS 815
  - (please details in the order)
SIMULATORS

CAM-BOX

3. AZC8CR-CB

CAM-BOX SIMULATOR

The simulator can test all kind of unit-injector and permits to do the following tests:

• Quality of the bobbins.
• It tests on test bench Electromagnetic and Piezo unit injectors and pump injectors
• It reads and measures the “BIP” moment, if connected to optional RSP.
• It tests Delphi 2 and 4 PIN.
• To be used on a test bench with a mechanical cam-box (AZ0134-CB-NUDO)

OPTIONAL:

 AZ0134-CB-NUDO Mechanical cam-box base to be mounted on a test bench to fix unit injectors.

The mechanical part of our cam-box (AZ0134-CB-NUDO) is universal; it can be mounted on every kind of diesel test bench. The height of our cam-box, from the base to the camme is the same of equipments BOSCH: 125mm.

If you wish to work on test bench with different height it is necessary to buy special adaptors (of our production).

 KIT of ADAPTORS for all the unit injectors on the market
 RSP – sensor to measure BIP point.
SIMULATORS
CAM-BOX

4. BEEPER

TO MEASURE BIP MOMENT USEFULL FOR ALL THE CAM-BOX NOW ON THE MARKET

TESTER TO MEASURE BIP MOMENT

Tester to measure the BIP moment. The instrument is universal because it can be mounted on the most part of the cam-box simulator (EUI) of old generation on the market.

It permits to measure the BIP from the bobbin of the uni-injector (EUI).

UNIVERSAL – ADAPTABLE TO MOST PART OF CAM-BOX SIMULATOR -
CAM-BOX MECCANICO – Cam-box base to be mounted on a test bench to fix unit injectors

The mechanical part of our cam-box (AZ0134-CB-NUDO) is universal; it can be mounted on every kind of diesel test bench. The height of our cam-box, from the base to the camme is the same of equipments BOSCH: 125mm.

If you wish to work on test bench with different height it is necessary to buy special adaptors (of our production).

The mechanical cam-box base tests Volvo and some Iveco version. To test different unit injector we produce the following special kit of adaptors:

- AZ0134-CB-SCANIA
- AZ0134-CB-DETROIT TYPE 5235580/570 (special version for both types)
- AZ0134-CB-CUMMINS
- AZ0134-CB-ACTROS MERCEDES
- AZ0134-CB-ATEGO
- AZ0134-CB-DAF
- AZ0134-CB-CATERPILLAR L 10
- AZ0134-CB-CATERPILLAR L 15
- AZ0134-CB-500HP DELPHI
- AZ0134-CB-JOHN DEERE DELPHI
- AZ0134-CB-IVECO CURSOR 350 CV *
- AZ0134-CB-LAND ROVER / DISCOVERY*
- AZ0134-CB-VOLKSWAGEN*
- **To test with little cam-shaft AZ0134-CB-ALB

It is possible to buy only the kit of adaptors you need.
SIMULATORS

OPTIONAL CAM-BOX

- **AZCOCR-RSP**

AZCOCR-RSP - Sensor RSP – Sensor to measure the reaction-time of the injector.

- **CAM-BOX ADAPTORS**
SIMULATORS

OPTIONAL CAM-BOX

AZ0134-CB-CAT Kit Cam-Box US1 Caterpillar L10

CB0137-01
- Blocchetto rempiggetto Cat
- Connector for Cat injector

CB0137-02
- Blocchetto Caterpillar
- Caterpillar clamp

Presentazione Cam-Box SIRINI S.r.l.

AZ0134-CB-MER Kit Cam-Box PDL 110 Mercedes Actros

CB0129-01
- Adattatore per pompa Actros
- Adapter for Actros pump

CB0129-02
- Coperchio paraschizzi
- Carter

AZB309-01
- Blocchetto Actros diam. 26
- Actros clamp diam. 26

Presentazione Cam-Box SIRINI S.r.l.
SIMULATORS

OPTIONAL CAM-BOX

AZ0134-CB-VW Kit Cam-Box PDE UIS Volkswagen

CB0134-06
Adattatore pompa iniettore VW tipo Standard e Picoz
Adaptor for VW injector-pump Pico and standard type

CB0134-03
Adattatore pompa iniettore VW con dado esagonale
Adaptor for VW injector-pump with hexagonal nut

CB0134-04
Vite blusiere per presarlo punteria
Screw for preload Adjuster

CB0134-05
Bacchetta normaggetto VW e Rover
Connector for VW and Rover damper

CB0134-02
Carterino paraschiusa tipo D
Protection Carter type D

+ Per lavorare con questo kit è necessario avere l’albero a camme AZ0134-ALB.
+ For working with this kit it is necessary to have the camshaft AZ0134-ALB.

Presentazione Cam-Box SIRINI S.r.l.

AZ0134-CB-ATEGO Kit Cam-Box PDL 100 Mercedes Atego

CB0133-01
Adattatore per pompa Atego
Adaptor for Atego pump

CB0139-02
Carterino paraschiusi
Carter

AZ0309-01
Bloccchetto Actros diam. 26
Actros clamp diam. 26

Presentazione Cam-Box SIRINI S.r.l.
SIMULATORS

OPTIONAL CAM-BOX

AZ0134-CB-DAF Kit Cam-Box PDL Daf – Mack - Renault

- CB0144-01 Adattatore per pompa Daf, Mack e Renault
- AZ0309-00 Bloccchetto Mack smontaggio / prova diam. 24
- CB0139-02 Coperchio paraschizzi
- AZ0309-02 Bloccchetto Man

AZ0134-CB-SCANIA Kit Cam-Box Scania

- CB0140-01 Bloccchetto pompa iniettore Scania
- CB0139-01 Clamp for Scania injector-pump
- Vite tipo B su bilanciere per precarico pattina
- Screw for preloading tappet
SIMULATORS

OPTIONAL CAM-BOX

AZ0134-CB-IVE Kit Cam-Box PDE 90 PDE 30 Iveco Cursor 350

CB0128-01

Adattatore pompa iniettore Iveco Cursor piccolo (molla corta)

Adaptator for Iveco Cursor injector-pump Little (short spring)

Per lavorare con questo kit è necessario avere l'albero a camme AZ0134-ALB.

For workkind with this kit it is necessary to have the camshaft AZ0134-ALB.

AZ0134-CB-JD Kit Cam-Box John Deere Delphi

CB0147-00

Bloccchetto Delphi John Deere

Delphi John Deere clamp
SIMULATORS

OPTIONAL CAM-BOX

AZ0134-CB-CUMM Kit Cam-Box Cummins

CB0138-01

Blocchetto ronpigiato Detroit Diesel
Connector for Detroit Diesel damper

CB0139-01

Vite tipo B su bilanciere per
precarico punteria
Screw for preloading tappet

CB0139-02

Blocchetto pompa iniettore
Cummins
Clamp for Cummins injector-pump

Presentazione Cam-Box
SIRINI S.r.l.

AZ0134-CB-500HP blocchetto per: Delphi Volvo 520HP - Volvo 4Pin - Iveco Stralis

CB0148-01

Blocchetto per Delphi Volvo
520HP; Delphi Volvo 4Pin;
Iveco Stralis. Dim. 60x60mm.

Clamp for Delphi Volvo
520HP; Delphi Volvo 4Pin;
Iveco Stralis. Dim. 60x60mm.

Presentazione Cam-Box
SIRINI S.r.l.
**SIMULATORS**

**OPTIONAL CAM-BOX**

AZ0134-CB-DET70  Kit Cam-Box Detroit 5234770 - 5235580

**CB0138-01**
- Bocchettino nonpiggetto Detroit Diesel
- Connector for Detroit Diesel damper

**CB0139-02**
- Coperchio paraschizzi
- Carter

**CB0138-02**
- Vite tipo D su bilanciere per precarico punteria
- Screw for preloading tappet

**CB0138-03**
- Blocchetto pompa iniettore Detroit
- Clamp for Detroit injector-pump

*Per lavorare con questo kit è necessario avere l’albero a camme AZ0134-ALB.*

*For working with this kit it is necessary to have the camshaft AZ0134-ALB.*

---

AZ0134-CB-ALB  Albero a camme Iveco Detroit Volkswagen

AZ0134-CB-ALBFR

- Albero a camme per Iveco,
- Land Rover Discovery e Volkswagen

- Camshaft for Iveco, Land Rover Discovery and Volkswagen
SIMULATORS

COMMON RAIL + CAM-BOX

AZCBCR-4-SIM-CB

COMMON RAIL SIMULATOR + SIMULATORE CAM-BOX

One tester to control unit-injectors, injectors and pumps common rail

This simulator is complete with:

• Simulator for common rail injectors and pumps (AZCBCR-4-SIM)
• Cam-box simulator to control unit injectors (AZCBCR-CB)

OPTIONAL:

- AZCBCR-RSP - RSP sensor to measure time of answer and BIP point
- AAZ034-EX Kit to mount injectors on the test bench version EXCLUSIVE
- AZ0134-CB-NUDO Mechanical cam-box base
- CAM-BOX Adaptors

TO TEST UNIT-INJECTORS ON TEST BENCH
UNIT-INJECTORS 2-4 PIN DELPHI
OPTIONAL:
RSP x TO MEASURE BIP MOMENT
CAM-BOX-NUDO
COMMON RAIL INJECTORS
COMMON RAIL INJECTORS

PULLERS

**AE0400-CR**
Universal puller to extract all kind of injectors, from traditional ones to common rail Bosch, Delphi, Siemens and Denso
It permits to extract the injectors working outside the vehicle, outside of the engine compartment.
It has been designed to extract the injectors placed in restricted area.
It is possible to see how the puller works on YOUTUBE digitig FILMAE0400

**AE0401-CR01** – ANGLE CONNECTION FOR PULLER AE0400-CR
Connection for vertical extraction

**AE0401-CR02** – ANGLE CONNECTION FOR PULLER AE0400-CR
Connection for vertical extraction

**AE0401-CR03** – ANGLE CONNECTION FOR PULLER AE0400-CR
Connection for vertical extraction
COMMON RAIL INJECTORS
CONTROL OF THE INJECTORS DIRECTLY FROM THE ENGINE

AZ0134-10CRM – BURETTES KIT TO CHECK THE BACK LEAKAGE OF CR INJECTORS (INCLUDED MERCEDES)

AZ0134-12CR – BURETTES KIT TO CHECK THE BACK LEAKAGE OF CR INJECTORS (INCLUDED MERCEDES) WITH CONNECTIONS FOR NOZZLEHOLDERS BOSCH – DELPHI – SIEMENS AND DENSO

AZ0134-10KIT – CONNECTIONS KIT FOR AZ0134-10CRM FOR ALL KIND OF NOZZLEHOLDERS – BOSCH – DELPHI – SIEMENS AND DENSO

AAZ034-25 – KIT DI 6 ADAPTORS FOR BACK LEAK OF DENSO NOZZLEHOLDERS
For test benches and AZ0134-10CRM

AAZ034-26 – KIT DI 6 ADAPTER FOR BACK LEAK BOSCH, SIEMENS AND DENSO NOZZLEHOLDERS
For test benches and AZ0134-10CRM

AAZ034-26T – ADAPTOR SHAPED AS “T” FOR BACK LEAK OF CR BOSCH NOZZLEHOLDERS

Note for AZ0134-10CRM
Denso nozzleholders: use the adaptors of the tool kit AZ0134-10CRM with AAZ034-25
Siemens nozzleholders: remove the adaptors of the tool kit AZ0134-10CRM and use AAZ034-26
Delphi nozzleholders: use directly the pipes of the tool kit AZ0134-10CRM without the adaptors on the nozzleholders.
COMMON RAIL INJECTORS

PULLERS

AE0226-00 – SLINDING HAMMER Length: 340 mm

AE0226-01 – SLIDING HAMMER Length: 480 mm

AE0247-04 – PULLER FOR BOSCH COMMON RAIL NOZZLEHOLDERS. 27x1
To be used with AE0226-00

AE0247-04A – PULLER FOR INTERNAL CR NOZZLEHOLDER. 17x1
To be used with AE0226-00

AE0247-14 – DOUBLE PULLER FOR COMMON RAIL INJECTOR WITH INSIDE AND OUTSIDE CONNECTION.
Inside connection with threat 17x1 (our AE0247-04A)
Outside connection with threat 20x1.

AE0247-02 – PULLER FOR IVECO TECTOR

AE0247-02C – PULLER FOR MERCEDES
COMMON RAIL INJECTORS

AE0247-07 – PULLER FOR SPRINTER

AE0247-08 – PULLER FOR CR FIAT DUCATO 2.2 JTD

AE0247-09 – PULLER FOR CR SIEMENS. 25X1
To be used with AE0226-00

AE0247-10 – PULLER FOR CR DENSO 25X0.5MM
To be used with AE0226-00

AE0247-11 – PULLER FOR FIAT ULISSE – PEUGEOT 807
CITROEN Evasion.

AE0247-12 – PULLER FOR DELPHI INJECTOR ON REXTON 2.7

AE0247-13 – PULLER FOR CR DENSO 20X1 TOYOTA MAZDA
COMMON RAIL INJECTORS

**AZ0352-CR SWIVEL PRESS TO REPAIR COMMON RAIL INJECTORS**
For Stage 1 and Stage 2  
Similar Bosch: 0.986.610.130  
To use with vice AA2919-01 or vice AZ0134-0A

**AAZ006-KIT – COMPARATOR BEARING FOR COMMON RAIL INJECTORS - WITH DIGITAL MILLESIMAL COMPARATOR**
Comparator bearing with 2 fixing part for common rail nozzleholders (17 and 19mm) with digital millesimal comparator

**AAZ006-CR – COMPARATOR BEARING FOR COMMON RAIL INJECTORS - WITHOUT DIGITAL MILLESIMAL COMPARATOR**
Comparator bearing with 2 fixing part for common rail nozzleholders (17 and 19mm) without digital millesimal comparator

**AAZ006-MIL – DIGITAL MILLESIMAL COMPARATOR**
Stroke from 0 to 15mm

**DISASSEMBLY**

**AZ0062-00 BOX WITH PLATE TO MOVE INJECTORS**
Plastic box with pierced plate to transport in safe injectors and unit-injectors (without damaging the pulverizers)

**AB0129-CR UNIVERSAL CLAMP FOR COMMON RAIL**
Clamp to use with vice – Universal -
COMMON RAIL INJECTORS

AZ0313-CR – TOOL TO DISMOUNT AND MOUNT COMMON RAIL NOZZLEHOLDERS AND UNIT-INJECTOR.
Similar: 0.986.613.400 and 0.986.613.500

AZ0313-CELL – FORCE PICK UP WITH DIGITAL FORCE INDICATOR
Similar: 0.986.612.997
Measure: from 0 to 2500 kg (25000 Newton)

AZ0313-CRKIT – Kit 3 plates unit injector
The kit is composed with:
AZ0313-CR04 – For Truck
AZ0313-CR428 – Similar: 0.986.913.428 – VW 1°-2°Serie
AZ0313-CR429 – Similar: 0.986.613.429 – VW 3°Serie
The plates are sold also individually

AZ0313-CR500 – PLATE TO TRASFORM THE TOOL ORIGINAL BOSCH 0.986.613.400 IN COMMON RAIL
Similar: 0.986.613.500
These plates, AZ0313-CR500, are included in our tool AZ0313-CR. The code AZ0313-CR500 is sold also individually.

AZ0313-DISC – KIT 3 GRADUATED DISCS
Kit of 3 graduated discs with 3 different diameters
Degree: from 0 to 180
These discs, AZ0313-DISC, are included in our tool AZ0313-CR. The code AZ0313-DISC is sold also individually.
### COMMON RAIL INJECTORS

**AZ0313-CR01 – PULVERIZER FIXING BUSH 7 MM.**
To fix the tip of the pulverizer of common rail injectors and unit-injector VW of 7 mm.
The code, AZ0313-CR01, is included in our tool AZ0313-CR. The code AZ0313-CR01 is sold also individually.

**AZ0313-CR02 – PULVERIZER FIXING BUSH 9 MM.**
To fix the tip of the pulverizer of common rail injectors and unit-injectors VW of 9 mm.
The code, AZ0313-CR02, is included in our tool AZ0313-CR. The code AZ0313-CR02 is sold also individually.

**AZ0313-CR417 – PULVERIZER FIXING BUSH 7 MM WITH STEP.**
To fix the tip of the pulverizer of unit-injector VW of 7 mm with step.
Similar: 0.986.613.417
The code, AZ0313-CR417, is included in our tool AZ0313-CR. The code AZ0313-CR417 is sold also individually.

**AZ0313-KIT – KIT OF PULVERIZER FIXING BUSHES**
Kit of 3 pulverizer fixing bushes for common rail injectors and unit-injectors of 7mm – 7 mm with step– 9 mm.
The kit includes the following codes: AZ0313-CR01 + AZ0313-CR417 + AZ0313-CR02.
The code, AZ0313-KIT, is included in our tool AZ0313-CR. The code AZ0313-KIT is sold also individually.

**AZ0313-CR427 – ELASTIC CAPSULE – PICK UP SPRING**
Elastic capsule – pressure 700 Nm – 70 Kg.
Similar: 0.986.613.427
COMMON RAIL INJECTORS

TORQUE WRENCHES

AC0516-CR – TORQUE WRENCH WITH ENGAGE CONNECTION.
Measure engage connection: 14x18mm
Nm: from 20 to 100 Nm

AC0516-CR1 – TORQUE WRENCH WITH ENGAGE CONNECTION.
Measure engage connection: 9x12mm
Nm: from 4 to 20 Nm

AC0516-CR2 – RATCHET WRENCH
Measure engage connection: 14x18mm
Connection: ½"

AC0516-CR3 – RATCHET WRENCH
Measure engage connection: 9x12mm
Connection ½"

AC0516-3S – DIGITAL TORQUE WRENCH WITH DISPLAY
On the display you see the screw up parameters (Nm and degrees)
Engage connection: 9x12mm
Made in Italy
RECOMMENDED
Sold with:
AC0516-27 – flat wrench 27mm with engage connection 9x12
AC0516-CR3 – ratchet wrench with engage connection 9x12

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COMMON RAIL INJECTORS

AC0516-CR22 – WRENCH OF 22MM WITH ENGAGE CONNECTION
Measure engage connection: 14x18mm
Wrench dimension: 22mm

AC0516-CR27 – WRENCH OF 27MM WITH ENGAGE CONNECTION
Measure engage connection: 14x18mm
Wrench dimension: 27mm

AC0516-27 – WRENCH OF 27MM WITH ENGAGE CONNECTION
Measure engage connection: 9x12mm
Wrench dimension: 27mm

AC0516-CR30 – WRENCH OF 30MM WITH ENGAGE CONNECTION
Measure engage connection: 14x18mm
Wrench dimension: 30mm

AC0516-CR36 – WRENCH OF 36MM WITH ENGAGE CONNECTION
FOR SIEMENS SENSOR
Measure engage connection: 14x18mm
Wrench dimension: 36mm

AC0516-19 – WRENCH TO DISMOUNT NUT OF CR INJECTORS
DENSO WITH DYNAMOMETRIC WRENCH
Star of 19 mm
Measure engage connection: 9x12mm

AC0516-CR19 – WRENCH TO DISMOUNT NUT OF CR INJECTORS
WITH DYNAMOMETRIC WRENCH
Star of 19mm
Measure engage connection 14x18mm
COMMON RAIL INJECTORS

AC0516-CR28 – TOOTHED WRENCH OF 28MM
Star: 28
Measure engage connection: 14x18mm
Similar: 0.986.613.238

AC0516-CR32 – TOOTHED WRENCH OF 32MM
Star: 32
Measure engage connection: 14x18mm
Similar: 0.986.613.240

TOOL KIT TO DISMOUNT COMMON RAIL INJECTORS

AZ0061-CR – COMPLET TOOL KIT TO DISMOUNT INJECTORS BOSCH CRI + CRIN
The AZ0061-CR tool kit contains all the tools of AZ0019-CRI and AZ0060-CRIN (see next pages) but without AB0122-01, AB0122-02, AB0122-03.
COMMON RAIL INJECTORS

AZ0018-CRI – TOOL KIT TO REPAIR COMMON RAIL NOZZLEHOLDERS BOSCH “CRI”

AZ0018-CRI: Tool kit to dismount, to overhaul and to remount of common rail injectors “CRI”. Similar 0.986.613.650.
## COMMON RAIL INJECTORS

**AZ0018-CRI – TOOL KIT TO REPAIR COMMON RAIL NOZZLEHOLDERS BOSCH “CRI”**

In the tool kit are included:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Dimensions</th>
<th>Tool Kit</th>
<th>Individual Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB0122-01</td>
<td>UNIVERSAL CLAMP FOR NOZZLEHOLDERS</td>
<td>11-12-13-19mm</td>
<td>AZ0018-CRI</td>
<td>Yes</td>
</tr>
<tr>
<td>AB0122-02</td>
<td>UNIVERSAL CLAMP FOR NOZZLEHOLDERS</td>
<td>14-16-20mm</td>
<td>AZ0018-CRI</td>
<td>Yes</td>
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<tr>
<td>AB0122-03</td>
<td>UNIVERSAL CLAMP FOR NOZZLEHOLDERS</td>
<td>15-17-18-22mm</td>
<td>AZ0018-CRI</td>
<td>Yes</td>
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<tr>
<td>AC0500-00</td>
<td>DISMOUNTING WRENCH FOR SOLENOID</td>
<td>Hexagon 29mm</td>
<td>AZ0018-CRI</td>
<td>Yes</td>
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<tr>
<td>AC0501-00</td>
<td>DISMOUNTING WRENCH FOR SOLENOID</td>
<td>Hexagon 30mm</td>
<td>AZ0018-CRI</td>
<td>Yes</td>
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<tr>
<td>Code</td>
<td>Description</td>
<td>Details</td>
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<tr>
<td>AAZ034-24-1</td>
<td>ANTIMAGNETIC PLIERS WITH INVERSE OPENING</td>
<td>In tool kit AZ0018-CRI – Sold also individually</td>
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<tr>
<td>AZ0044-01</td>
<td>FIBER RING PULLER</td>
<td>In tool kit AZ0018-CRI and AZ0044-00 – Sold also individually</td>
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<tr>
<td>AC0483-GR</td>
<td>WRENCH TO DISMOUNT THE INTERNAL RING-NUT OF BOSCH NOZZLEHOLDERS (17x1mm)</td>
<td>Hexagon 10mm – Hole 6.5mm, Similar 0.986.613.630, In tool kit AZ0018-CRI – Sold also individually</td>
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</tr>
<tr>
<td>AAZ034-623</td>
<td>PULLER FOR BAR AND VALVE</td>
<td>Thread: 15mm, Similar 0.986.613.623, In tool kit AZ0018-CRI – Sold also individually</td>
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<tr>
<td>AAZ034-626</td>
<td>PULLER FOR BAR AND VALVE</td>
<td>Thread: 17mm, Similar 0.986.613.626, In tool kit AZ0018-CRI – Sold also individually</td>
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<tr>
<td>AAZ034-667</td>
<td>THREAD PROTECTION WITH SUPPORT BASE</td>
<td>Thread: 15mm, Similar 0.986.613.667, In tool kit AZ0018-CRI – Sold also individually</td>
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<tr>
<td>AAZ034-668</td>
<td>THREAD PROTECTION WITH SUPPORT BASE</td>
<td>Thread: 17mm, Similar 0.986.613.668, In tool AZ0018-CRI – Sold also individually</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
COMMON RAIL INJECTORS

AAZ034-619 – PULLER AND INserter FOR SOLENOID SEEGER
Similar 0.986.613.619
In tool kit AZ0018-CRI – Sold also individually

AAZ034-618 – INserter FOR SOLENOID OR
Similar 0.986.613.618
In tool kit AZ0018-CRI – Sold also individually

AAZ034-640 – FIBER RING POSITIONING TOOL
Similar 0.986.613.640
In tool kit AZ0018-CRI – Sold also individually

AAZ034-613 – INserter OF THE VALVE
Similar 0.986.613.613
In tool kit AZ0018-CRI – Sold also individually

AAZ034-682 – TOOL TO REPAIR THE THREAD OF HIGH-PRESSURE IN-LET CONNECTION
Similar 0.986.613.682
In tool kit AZ0018-CRI – Sold also individually
AZ0060-CRIN – TOOL KIT TO REPAIR COMMON RAIL NOZZLEHOLDERS BOSCH “CRIN”

AZ0060-CRIN: Tool kit to dismount, to overhaul and to remount of common rail injectors “CRIN”. Similar 0.986.613.669.
COMMON RAIL INJECTORS

AAZ034-616 INERTER FOR SOLENOID SEEGER
Thread: 19mm
Similar 0.986.613.616
In tool kit AZ0060-CRIN. Sold also individually

AAZ034-628 PULLER FOR BAR AND VALVE
Thread: 19mm
Similar 0.986.613.628
In tool kit AZ0060-CRIN. Sold also individually

AC0483-12TX WRENCH FOR INTERNAL RING-NUT 12 TORX
Torx
Similar 0.986.613.631
In tool kit AZ0060-CRIN. Sold also individually

AC0483-10TX WRENCH FOR INTERNAL RING-NUT 10 TORX
Torx
Similar 0.986.613.632
In tool kit AZ0060-CRIN. Sold also individually

AAZ034-669 THREAD PROTECTION WITH SUPPORT BASE
Thread 19mm
Similar 0.986.613.669
In tool kit AZ0060-CRIN. Sold also individually
COMMON RAIL INJECTORS

AC0498-00 DISMOUNT WRENCH FOR TECTOR SOLENOID
Wrench dimension: 28mm 12 sides
Similar 0.986.613.184
In tool kit AZ0060-CRIN. Sold also individually

AC0509-00 DISMOUNT WRENCH FOR MAN SOLENOID
Wrench dimension: 27mm 12 sides
Similar 0.986.613.185
In tool kit AZ0060-CRIN. Sold also individually

AAZ034-646 FIBER RING POSITIONING TOOL
Similar 0.986.613.646
In tool kit AZ0060-CRIN. Sold also individually

AAZ034-648 FIBER RING POSITIONING TOOL
Similar 0.986.613.648
In tool kit AZ0060-CRIN. Sold also individually

AAZ034-408 TOOL TO MEASURE THE ANGLE
Similar 0.986.612.408
In tool kit AZ0060-CRIN. Sold also individually
COMMON RAIL INJECTORS

SEVERAL DISMOUNTING WRENCH

AZ0501-CR – KIT DI 6 OPEN WRENCHES TO DISMOUNT CR INJECTORS
Wrench dimensions: 15, 17, 19, 27, 29 and 30mm.
Each single wrench is also sold individually with code:
AZ0501-CR15; AZ0501-CR17; AZ0501-CR19; AZ0501-CR27;
AZ0501-CR29; AZ0501-CR30.

AZ0501-CR25 – OPEN WRENCH TO DISMOUNT SIEMENS INJECTORS
Wrench dimension: 25 mm..

AC0509-00 – DISMOUNTING WRENCH FOR SOLENOID OF MAN INJECTORS
Wrench dimension: 27mm
Sold individually and also in tool kit AZ0060-CRIN.

AC0498-00 DISMOUNT WRENCH FOR TECTOR SOLENOID
For injector Man with 12 sides. Wrench dimension: 28mm
Sold individually and also in tool kit AZ0060-CRIN

AC0491-00 – WRENCH TO DISMOUNT DELPHI INJECTORS
Wrench dimension: 21mm
COMMON RAIL INJECTORS

AC0499-00 – WRENCH WITH 3 PINS TO DISMOUNT INTERNAL RING-NUT OF RAIL DELPHI

AC0483-00 – WRENCH TO DISMOUNT INTERNAL RING-NUT OF BOSCH INJECTORS
Hexagon 10mm – hole 6.5mm

AC0483-GR – WRENCH TO DISMOUNT INTERNAL RING-NUT OF BOSCH INJECTORS
Hexagon 10mm – hole 7.5mm

AC0483-12TX WRENCH FOR INTERNAL RING-NUT 12 TORX
Torx
Similar 0.986.613.631
In tool kit AZ0060-CRIN. Sold also individually

AC0483-10TX WRENCH FOR INTERNAL RING-NUT 10 TORX
Torx
Similar 0.986.613.632
In tool kit AZ0060-CRIN. Sold also individually
COMMON RAIL INJECTORS

AC0505-00 – WRENCH WITH DRIVER FOR SIEMENS INJECTORS

AC0506-00 - WRENCH FOR DAILY
Wrench to dismount pulverizer nut of Dayli injectors similar to 0.445.110.273
Wrench dimension: octagonal nut 17, 5 mm

AC0506-16 - WRENCH TO DISMOUNT THE OCTAGONAL NUT OF CR INJECTOR OF MM 16
Wrench dimension: octagonal nut 16 mm

AC0506-KIT – KIT DI 4 WRENCHES TO OPEN THE PULVERIZER NUT OF CR INJECTORS
AC0506-14 internal hexagon 14mm for Nippodenso
AC0506-15 internal hexagon 15mm Similar 0.986.610.151
AC0506-17 internal hexagon 17mm Similar 0.986.610.152
AC0506-19 internal hexagon 19mm Similar 0.986.610.153
To be used with open wrench AZ0501-CR27 with dynamometric connection.
Each single wrench is also sold individually.

AZ0501-CR27 – OPEN WRENCH WITH DYNAMOMETRIC CONNECTION ½”
Wrench dimension: 27 mm.
COMMON RAIL INJECTORS

**AC0508-00** – WRENCH WITH 3 TEETH TO DISMOUNT INTERNAL RING-NUT OF DENSO INJECTORS
To be used with pneumatic impact-wrench with connection ½"

**AC0518-00** – WRENCH TO DISMOUNT THE INTERNAL RING-NUT OF THE SOLENOID OF INJECTORS C.R. DENSO
Hexagonal: 7/8
Wrench with connection of ½"

**AC0516-19** – WRENCH TO DISMOUNT THE NUT OF INJECTORS C.R. DENSO WITH DYNAMOMETRIC WRENCH
Star: 19
To use with dynamometric wrench with connection 9x12mm our code AC0516-CR1

**AC0516-CR19** – WRENCH TO DISMOUNT THE NUT OF INJECTORS C.R. DENSO WITH DYNAMOMETRIC WRENCH
Star: 19
To use with dynamometric wrench with connection 14x18mm our code AC0516-CR

**AC0516-CR28** – TOOTHED WRENCH OF 28MM
Star: 28
Measure engage connection: 14x18mm
Similar: 0.986.613.238

**AC0516-CR32** – TOOTHED WRENCH OF 32MM
Star: 32
Measure engage connection: 14x18mm
Similar: 0.986.613.240
COMMON RAIL INJECTORS

PULLER FOR VALVE-SET

**AE0280-CR**  – PULLER FOR VALVE-SET (VALVE GROUP) FOR CR INJECTORS – CRI -
It permits to extract the valve set without dismounting the pulverizer side.

**AE0281-CR**  – PULLER FOR VALVE-SET (VALVE GROUP) FOR CR INJECTORS – CRIN -
It permits to extract the valve set without dismounting the pulverizer side.

**AE0285-CR**  – PULLER FOR BOBBIN BUSH OF CR INJECTOR BOSCH
Only for CRI 2.1

PULLER AND INSERTER FOR FIBER RING

**AZ0044-00**  – KIT PULLER/INSERTER FOR FIBER RING

**AAZ034-640**  – FIBER RING POSITIONING TOOL
Similar 0.986.613.640
In tool kit AZ0018-CRI – Sold also individually
COMMON RAIL INJECTORS

AAZ034-646 FIBER RING POSITIONING TOOL
Similar 0.986.613.646
In tool kit AZ0060-CRIN. Sold also individually

AAZ034-648 FIBER RING POSITIONING TOOL
Similar 0.986.613.648
In tool kit AZ0060-CRIN. Sold also individually

INJECTOR DENSO – HOW TO REPLACE FILTER

AZ0071-C.R – CASSETTA FOR ANTI-POWDERS FILTER OF COMMON RAIL INJECTORS DENSO
COMMON RAIL INJECTORS

CLEANING AND HOLDING-BALL SEAT TEST OF CR VALVES

AAZ034-24 – PLIERS KIT IN INOX ANTI-MAGNETIC

AZ0134-MO-01 – GRINDING WHEEL IN SOFT CLOTH
To be used on every grindmachine.

AZ0134-MO-02 – ABRASIVE PASTE TO POLISH THE HOLDING BALL VALVE
To be used with grinding wheel in soft cloth (AZ0134-MO-01).

AZ0040-00 – TOOL KIT FOR LAPPING COMMON RAIL INJECTORS SPHERICAL SEAT

AZ0503-04 CR - LENT ENLARGEMENT WITH LAMP WITH 6 LED

AZ0503-03 - LENT STRONG ENLARGEMENT X10 WITH LAMP
COMMON RAIL INJECTORS

AAZ100-00 – HOLDING-BALL VALVE POWER-TESTER
The kit AAZ100-00 includes nr. 1 vacuum tester (AAZ007-09N) and nr. 1 special cylindrical support (AAZ034-29).
The kit checks the power of the holding-ball valve to keep the vacuum in the common rail Bosch injectors.

AAZ034-29 – CYLINDRICAL SUPPORT FOR HOLDING-BALL VALVE
Cylindrical support with calibrated hole to check the vacuum capacity of the valves of common rail Bosch injectors.
The AAZ034-29 is included in kit AAZ100-00. Sold also individually

AAZ007-09N – PRESSURE AND VACUUM TESTER
Pressure test till 4 bar
Vacuum test till -1 bar
The code AAZ034-09N is included in kit AAZ100-00. Sold also individually
COMMON RAIL INJECTORS

WASHING

AV0000-01 – ULTRASONIC CLEANING TANK FOR ALL THE COMPONENTS OF COMMON RAIL INJECTORS – 3,5 LT.

AV0001-01 – ULTRASONIC CLEANING TANK FOR ALL THE COMPONENTS OF COMMON RAIL INJECTORS – 6 LT.

AV0002-01 – ULTRASONIC CLEANING TANK FOR ALL THE COMPONENTS OF COMMON RAIL INJECTORS – 14 LT.

AV0003-01 – MULTIFREQUENCY ULTRASONIC CLEANING TANK FOR ALL THE COMPONENTS OF COMMON RAIL INJECTORS – 14 LT.

All our ultrasonic cleaning tanks are completely in INOX with heating system, RUBINETTO DI SCARICO, and level sensor (to avoid to burn the electric part). They are sold with basket in inox base and 1 lt of liquid BL9001-00

AV0000-0P – INOX BASKET FOR NOZZLEHOLDERS

AV0000-P6 – INOX BASKET WITH 6 COMPARTMENTS TO STORE AND WASH ALL LITTLE COMPONENTS OF COMMON RAIL INJECTORS

BL9001-00 – ULTRASONIC CLEANING LIQUID
To wash: STEEL – IRON – INOX – CAOUTCHOUC – PLASTIC
Special for DIESEL parts
Sold in litres.

BL9001-01 – ULTRASONIC CLEANING LIQUID
To wash: ALUMINIUM – ZINC METAL - COPPER
Special for BODY OF DIESEL ENGINE GAZOLINE INJECTORS
Sold in litres.
COMMON RAIL INJECTORS

TESTER CLAMP FOR NOZZLEHOLDERS

AZ0309-00 RENAULT MACK*  
Diam: 24mm

AZ0309-01 MERCEDES ACTROS*  
Diam: 26mm

AZ0309-02 MAN  
Diam: 29mm

AZ0309-03 RENAULT MACK 2* 480CV  
Diam: 27.5mm

AZ0309-04A RENAULT PREMIUM 420CV  
Diam: 32mm

AZ0309-05N FIAT TECTOR  
Diam: 26.5mm

- Serrare a max 20 Nm – Close max 20 Nm -

*Iniettori tradizionali / *Traditional nozzleholders
COMMON RAIL INJECTORS

AZ0309-06 DENSO  Diam: 27mm

AZ0309-07 DENSO  Diam: 23.5mm

AZ0309-08 MAN  Diam: 26mm

AZ0309-09 MAN - TEMSA  Diam: 28mm

AZ0309-10 CUMMINS  Diam: 26mm
For injectors: 0.445.120.120

AZ0309-11 SIEMENS VDO
Ford: 1975072C91-043007-800496502 (solo recupero/only return)

*Serrare a max 20 Nm – Close max 20 Nm -

*Iniettori tradizionali / *Traditional nozzleholders
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Diameter</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>AZ0309-12</td>
<td>“SISU”</td>
<td>Ø = 26.6mm</td>
<td>Note: 0445120063</td>
</tr>
<tr>
<td>AZ0309-13</td>
<td>“DELPHI Smart Injector”</td>
<td>Ø = 26.6mm</td>
<td>Note: You can use it like a standard “CRIN” or with Cam-Box and its Delphi Electronic Unit Pump (EUP).</td>
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<td>AZ0309-14</td>
<td>“DENSO”</td>
<td>Ø = 24mm</td>
<td>Note: 1211-01G0206 (only return)</td>
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<td>AZ0309-15</td>
<td>“DENSO” su/on Perkins</td>
<td>Ø = 19mm</td>
<td>Note: 2S00121185AF-9621-2645A719 (only return)</td>
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<td>AZ0309-16</td>
<td>“SCANIA”</td>
<td>Ø = 40.5mm</td>
<td>Note: 1881565-0984301-083203390-CHQMDB50K (2 PIN)</td>
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<td>AZ0309-17</td>
<td>“DEUTZ”</td>
<td>Ø = 21.5mm</td>
<td>Note: 0445120066 (only return)</td>
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- Serrare a max 20 Nm – Close max 20 Nm -

*Iniettori tradizionali / Traditional nozzleholders*
COMMON RAIL INJECTORS

AZ0309-18 “CURSOR 9”
Ø = 35mm
Note: 0.445.120.092 – 0.445.120.279 (solo recupero/only return)

AZ0309-19 “BOSCH MTU”
Ø = 26mm
Note: Codice MTU X00005152 – Y431K05112 (solo recupero/only return)

AZ0309-20 “SCANIA 4 PIN”
Ø = 35mm
Note: da utilizzare con riduzione AAZ010-35 (16fX14m)
To be used with reduction AAZ010-35 (16fX14m)
(solo recupero/only return)

-Iniettori tradizionali / Traditional nozzleholders

- Serrare a max 20 Nm – Close max 20 Nm -
COMMON RAIL INJECTORS

QUICK CONNECTION

AAZ035-CR KIT OF 18 ADAPTORS WITH QUICK CONNECTIONS
Nr. 6 adaptors diam. 17mm
Nr. 6 adaptors diam. 19mm
Nr. 6 adaptors diam. 21mm
With quick connection with “L” shape – Suitable for EPS815

AAZ035-CR17 KIT OF 6 ADAPTORS WITH QUICK CONNECTIONS FOR INJECTORS DIAM. 17
Nr. 6 adaptors diam. 17mm
With quick connection with “L” shape – Suitable for EPS815

AAZ035-CR19 KIT OF 6 ADAPTORS WITH QUICK CONNECTIONS FOR INJECTORS DIAM. 19
Nr. 6 adaptors diam. 19mm
With quick connection with “L” shape – Suitable for EPS815

AAZ035-CR21 KIT OF 6 ADAPTORS WITH QUICK CONNECTIONS FOR INJECTORS DIAM. 21
Nr. 6 adaptors diam. 21mm
With quick connection “L” shape – Suitable for EPS815

AAZ034-09 QUICK CONNECTION diameter 7mm - Universal

AAZ034-09A QUICK CONNECTION diameter 9mm - Universal
GLASS KIT FOR COMMON RAIL SIMULATORS

Ours glasses permits to visualize the spray of common rail injectors and can be mounted on every kind of test benches and simulators. They must be fixed directly on the injectors.

Orders codes:

AAZ038-BASE
Kit BASE to mount nr. 1 glass on nr. 1 injector

AAZ038-BASE-KIT
Kit BASE complete to mount nr. 4 glasses on nr. 4 injectors

AAZ038-EX
Kit exclusive COMPLETE to mount on test bench nr. 1 injector. The kit is composed of nr. 2 glass in plexiglass with glass-bush with nr. 2 adaptors for pulverizer 7 and 9mm (AAZ038-AD7 – AAZ038-AD9)

AAZ038-BIC7
nr. 1 glass in plexiglass with glass-bush with nr. 1 adaptor x pulverizer of 7mm (AAZ038-AD7)

AAZ038-BIC9
nr. 1 glass in plexiglass with glass-bush with nr. 1 adaptor x pulverizer of 9mm (AAZ038-AD9)

AAZ038-AD7
adaptor x glass for pulverizer of 7mm

AAZ038-AD9
adaptor x glass for pulverizer of 9 mm

AAZ038-17
inner reduction in pvc of 17 for AAZ038-BIC7 – AAZ038-BIC9

AAZ038-19
inner reduction in pvc of 19 for AAZ038-BIC7 – AAZ038-BIC9

AAZ038-21
inner reduction in pvc of 21 for AAZ038-BIC7 – AAZ038-BIC9
GLASS KIT FOR COMMON RAIL SIMULATORS

AAZ038-EX

NR. 1 glass in plexiglas with glass-bush with nr. 1 adaptor for pulverizer of 7mm (AAZ038-BIC7)
NR. 1 glass in plexiglas with glass-bush with nr. 1 adaptor for pulverizer of 9mm (AAZ038-BIC9)
NR. 3 inner reductions of 17, 19 and 21 (AAZ038-17 – AAZ038-19 – AAZ038-21)

AAZ038-BASE-KIT

Kit to mount nr. 4 glasses for CR injectors
Nr. 4 plexiglas glasses with glass-bushes with its adaptors and reductions

AAZ038-SUP

Stand kit to mount on test bench common rail injectors. (without plexiglass glasses).

AAZ038-EX

Stand kit to mount on test bench common rail injectors complete with 4 plexiglas glasses with glass-bushes.
COMMON RAIL INJECTORS

CLEANING OF INJECTOR SEAT INSIDE THE ENGINE

AZ0037-01 – KIT 4 REAMERS TO CLEAN NOZZLEHOLDER SEAT INSIDE THE ENGINE
Reamers for: common rail Delphi
common rail Mercedes (with step)
common rail Bosch (flat reamer)
common rail Bosch (conical reamer)

AZ0037-02 – NEW KIT OF 4 REAMERS TO CLEAN NOZZLEHOLDERS SEAT INSIDE THE ENGINE
Reamers for: common rail Bosch Piezo
common rail Daily
unit-injector UI Volkswagen and Audi
common rail Tector and Man
COMMON RAIL INJECTORS

SPARE PARTS

BK0025-CR – KIT 50 BALLS SIMILAR: F00VC05001 DIAM 1.34MM
BK0025-CRBH – KIT 50 BALLS ORIGINAL BOSCH F00VC05001

BK0045-CR – KIT 50 BALLS SIMILAR: F00VC05008 DIAM 1.34MM
BK0045-CRBH – KIT 50 BALLS ORIGINAL BOSCH F00VC05008

BK0046-CR – KIT 50 BALLS SIMILAR: F00VC05009 DIAM 1.50MM
BK0046-CRBH – KIT 50 BALLS ORIGINAL BOSCH F00VC05009

- BALLS IN CERAMIC -

BK0047-CR – KIT 50 BALLS SIMILAR: F00VC05009 DIAM 1.50MM

- BALLS IN IRON -

BK0024-CR – KIT OF SPARE PARTS FOR C.R. NOZZLEHOLDERS

BK0034-CR – KIT FIBER RING (BK0026-CR) + OIL SEAL (BK0027-CR) SIMILAR BOSCH F00VC99002

BK0034-CRBH – KIT FIBER RING + OIL SEAL ORIGINAL BOSCH F00VC99002

BK0028-CR – KIT 20 FIBER RING (BK0026-CR) + 50 BALLS (BK0025-CR)

BK0026-CR – FIBER RING

BK0029-CR – SOLENOID SPRING HOLDER FOR C.R. INJECTORS BOSCH
COMMON RAIL INJECTORS

COOPER WASHERS KIT

Spare part kit **AZ0023-CR** with cooper washers that are placed internal to the engine, at the base of the common rail nozzleholders or injector-pumps. The tool kit is composed of 19 different type of washers (50 pieces for each kind of washer) and back leak connection with 1 and 2 out.

Washers, as in the photo, of the following measures:

1) **AZ0023-CR1** Measure : 7.3 x 13.6 x 2mm  KIA
2) **AZ0023-CR2** Measure : 7.3 x 13.6 x 3mm  KIA
3) **AZ0023-CR3** Measure : 7.5 x 16.5 x 2mm  SPRINTER
4) **AZ0023-CR4** Measure : 7.5 x 15.5 x 1mm  ROVER - MAN
5) **AZ0023-CR5** Measure : 7.5 x 15 x 1.5mm  ULYSSE
6) **AZ0023-CR6** Measure : 7.5 x 13.5x 1.5mm  FOCUS
7) **AZ0023-CR7** Measure : 7.5 x 13 x 1.5mm  DEUTZ
8) **AZ0023-CR8** Measure : 7.5 x 15 x 3mm  SCENIC
9) **AZ0023-CR9** Measure : 7.5 x 15.5 x 1.5mm  LAND ROVER
10) **AZ0023-CR10** Measure : 7.5 x 15.5 x 2.5mm  FIESTA
11) **AZ0023-CR11** MAZDA
COMMON RAIL INJECTORS

12) AZ0023-CR12 Measure : 8 x 15.45 x 2mm CON GRADITO / WITH STEP

13) AZ0023-CR13 Measure : 7.5 x 15 x 2mm CON TACCHE INTERNE - IVECO - FORD - BMW - MAN

14) AZ0023-CR14 Measure : 7.5 x 15 x 1.5mm CON TACCHE INTERNE - IVECO - FORD - BMW - MAN

15) AZ0023-CR15 Measure : 7.5 x 13 x 2.5mm CON TACCHE INTERNE MEGANE

16) AZ0023-CR16 Measure : 7 x 15 x 1.5mm CON GRADITO MERCEDES

17) AZ0023-CR17 Measure : 8 x 15 x 1.5mm CON TACCHE INTERNE BOMBATE FIAT – SIEMENS

18) AZ0023-CR18 Measure : 6 x 10 x 1mm ACCIAIO

19) AZ0023-CR19 Brass nozzleholder base VOLKSWAGEN

20) AZ0023-CR20 Rings for nozzleholder base VOLKSWAGEN

21) AZ0023-CR22 Grips

22) AAZ034-26 1 way connection

23) AAZ034-26T 2 ways connection
RICAMBI DENSO ISUZO
DENSO ISUZO SPARE PARTS

BK0052-00
O-ring
Kit of 10 pcs

BK0052-01
O-ring
Kit of 10 pcs

BK0052-07
Spina – Pin
Diam: 2.5mm
Length: 8.7mm

BK0052-08
Spina – Pin
Diam: 1.8mm
Length: 6mm

BK0052-07
Spina – Pin
Diam: 2.5mm
Length: 8.7mm

Cod. Denso: 095000-0560
RICAMBI DENSO
DENSO SPARE PARTS

1) Boccola in plastica – Plastic Bush
BK0052-20  23256-27010
BK0052-21  23256-27020
BK0052-22  23256-30010

2) O-ring
BK0052-03 diam: 17x2mm  96721-19017
BK0052-04 diam: 15x2.3mm

3) Rondella in rame – Heat Shield
BK0052-23  11176-30011
BK0052-24  11176-30010  diam: 16mm thick
BK0052-25  11176-26030
BK0052-26  11176-26020

Kit O-RING
BK0052-05
Composed of:
BK0052-02 (position 4)
BK0052-04 (position 2)
diam: 15x2.3mm

Kit O-RING
BK0052-06
Composed of:
BK0052-02 (position 4)
BK0052-03 (position 2)
diam: 17x2mm
Code: 96721-19017
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## RICAMBI DENSO
### DENSO SPARE PARTS

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### RICAMBI DENSO
DENSO SPARE PARTS

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<td>Per iniettori Piezo For Piezo injectors</td>
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</table>
RICAMBI DENSO
DENSO SPARE PARTS

VALVOLA - VALVE

BK0052-28
BK0052-29
BK0052-30

BK0052-07
Spina – Pin
Diam: 2.5mm
Lenght: 8.7mm

BK0052-11
(Kit of 10 pcs)
O-Ring

BK0052-12
(Kit of 10 pcs)
O-Ring

BK0052-10
Spina – Pin
Diam: 1.8mm
Lenght: 14mm

BK0052-27
Rondella - Washer
RICAMBI DENSO
DENSO SPARE PARTS

RICAMBI VARI

BK0052-31
RACCORDO RECUPERO / JOINT

BK0052-32
RACCORDO RECUPERO / JOINT

BK0052-33
MOLETTA DI FERMO / CLIP

BK0052-34
Kit composed of:
BK0052-33 MOLETTA DI FERMO / CLIP
BK0052-27 RONDELLA / WASHER
BK0052-32 RACCORDO RECUPERO / JOINT
BK0052-01 O’RING
BK0052-12 O’RING

BK0052-35
Kit composed of:
BK0052-33 MOLETTA DI FERMO / CLIP
BK0052-27 RONDELLA / WASHER
BK0052-31 RACCORDO RECUPERO / JOINT
BK0052-01 O’RING
BK0052-12 O’RING
PUMPS
COMMON RAIL PUMPS

CONTROL OF ACTUATORS

AZ0045-00 – FALSE ACTUATORS KIT FOR CR PUMPS
Similar Delphi YDT410

TOOLS FOR GLOW PLUGS

AZ0134-278 – DIAGNOSTIC TOOL KIT FOR CR PUMPS
The tester checks the pressure of the common rail pumps directly from the engine.
You can check the pressure of all common rail pumps CP1, CP3, Delphi and Siemens.

AZ0038-00 – WRENCH TOOL KIT TO DISMOUNT AND MOUNT ALL TYPES OF GLOW PLUGS INCLUDING JAPANESE BRANDS
The kit includes nr. 2 connections for dynamometric wrench ½” and 3/8

AZ0046-00 – FALSE GLOW PLUGS TOOL KIT TO TEST THE COMPRESSION OF AL BRANDS ENGINES

AZ0139-02 – MOTOMETER
Tool to check the compression of diesel engines
COMMON RAIL PUMPS

AZ0056-00 – TOOL KIT TO DISMOUNT GLOW PLUGS
8X1 and 10x1

AZ0057-00 – TOOL KIT TO DISMOUNT GLOW PLUGS
9X1

AZ0058-00 – TOOL KIT TO DISMOUNT GLOW PLUGS ON FIAT MULTIJET 1.3

AZ0050-00 – KIT OF 36 TUBE-BUSHES TO CLEAN ENGINE-HEAD, NOZZLEHOLDER SEAT AND PLUG SEAT.
Nr. 12 in cooper  diam. from 8 to 19 mm
Nr. 12 in steel   diam. from 8 to 19mm
Nr. 12 in nylon   diam. from 8 to 19mm
## TIMING TOOL KITS

### TIMING TOOLS KITS FOR COMMON RAIL ENGINES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>AZ0128-218</td>
<td>TOOL TO MOUNT AND DISMOUNT VP FORD DURATORQ PUMP</td>
<td>Engines 2.0 – 2.2 – 2.4 and Common Rail</td>
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<tr>
<td>AZ0128-219</td>
<td>FIXING PIN FOR FLY-WHEEL ON FORD TRANSIT</td>
<td>With VP pump and Common Rail</td>
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<tr>
<td>AZ0128-217</td>
<td>WRENCH TO DISMOUNT RING-NUT ON FORD MONDEO</td>
<td>Common Rail</td>
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<tr>
<td>AZ0128-38</td>
<td>TIMING TOOL KIT FOR FORD TD 1.4 - 2.0 – 2.4</td>
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<tr>
<td>AZ0128-39</td>
<td>TIMING TOOL TO MOUNT AND DISMOUNT FORD 1.8 WITH SIEMENS PUMP</td>
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<tr>
<td>AZ0128-28</td>
<td>TIMING TOOL KIT FOR FIAT ENGINES MULTIJET 1300 WITH TOOL FOR TRANSMISSION BELT</td>
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<tr>
<td>AZ0128-35</td>
<td>TIMING TOOL KIT FOR FIAT ENGINES 1900 MULTIJET WITH TOOL FOR TRANSMISSION BELT</td>
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### TIMING TOOL KITS

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<tr>
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<th>Description</th>
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<tr>
<td>AZ0128-36</td>
<td>TIMING TOOL KIT FOR FIAT ENGINES 1900 JTD 16V On Alfa 159 and Fiat Croma</td>
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<tr>
<td>AZ0128-41</td>
<td>TIMING TOOL KIT FOR FIAT ENGINES 1600 MULTIJET WITH TOOL FOR TRANSMISSION BELT</td>
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<tr>
<td>AZ0128-30</td>
<td>TIMING TOOL KIT FIAT-IVECO DAYLI/DUCATO Engines 2.3 – 2.8 Common Rail</td>
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<tr>
<td>AZ0128-34</td>
<td>TIMING TOOL KIT CHRYSLER ENGINES 2.5 – 2.8</td>
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<td>AZ0128-23</td>
<td>KIT OF TIMING PINS COMMON RAIL ENGINES RENAULT</td>
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<td>AZ0128-29</td>
<td>TIMING TOOL KIT FOR RENAULT ENGINES 2.2 – 2.5 DCI</td>
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<tr>
<td>AZ0128-42</td>
<td>TIMING TOOL KIT FOR RENAULT ENGINE 2000 DCI</td>
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AZ0128-32 - TIMING TOOL KIT FOR ENGINES PEUGEOT CITROEN

AZ0128-33 – TIMING TOOL KIT ENGINES PEUGEOT CITROEN
Citroen: AX, Berlingo, BX, C5, C25, Dispact, Evasion, Jumpy, Jumper; Relay, Saxo, Xara, Xantia, XM, ZX.

AZ0128-37 - TIMING TOOL KIT ENGINES PEUGEOT CITROEN 1.4 – 1.6 HD

AZ0128-45 – TIMING TOOL KIT ENGINES BMW SERIE N51-52-53-54

AZ0128-46 – TIMING TOOL KIT BMW ENGINE SERIE N40-45

AZ0128-519 - TIMING TOOL KIT FOR BMW ENGINE WITH CP4 PUMP WITH CAMSHAFTS BACK-ROTARY
TIMING TOOL KITS

AZ0128-40 – TIMING TOOL KIT FOR OPEL AGILA MERIVA CORSA
Engines 1.0 – 1.2 16V – 1.4 16V

AZ0128-50 – TIMING PINS FOR FLY-WHEEL / PMS IVECO CURSOR 8/10/13.
Similar Iveco codes: 99360612 - 99360613

AZ0128-31 – TIMING TOOL KIT FOR VW SEAT ENGINES 1-2-3 CIL
COMMON RAIL PUMPS

PUMPS PULLERS

AE0233-01 – PULLER FOR BMW 320 -150CV VP 130 CV
For common rail and VP

AE0233-02 – PULLER FOR BMW 520 TDS – 320D VP M47
Only for common rail CP3

AE0233-CP4 – PULLER FOR CP4 PUMP ON BMW SERIE 1

AE0247-05 – PULLEY EXTRACTOR FOR C.R DELPHI

AE0260-00 – RENAULT AND OPEL MOVANO PUMP PULLER

AE0290-CP4 – PULLER FOR CP4 PUMP ON AUDI

AE0269-CR – PULLER FOR PUMP CP3 ON RENAULT
COMMON RAIL PUMPS

AE0276-CR – PULLER FOR CP4 PUMP ON HYUNDAI SANTA FE
With ring nut 40x1.5mm

AE0272-CR – PULLER FOR PUMP ON HYUNDAI GETZ
With ring-nut 35x1.25mm

AE0300-CP4 – PULLER FOR CP4 PUMP

AE0282-CR – PULLER FOR COMMON RAIL PUMPS SIEMENS ON ENGINES FORD
COMMON RAIL PUMPS

PUMP DISASSEMBLY

AZ0134-CR – SWIVEL VICE FOR PUMP CP1
It is composed of:
AZ0134-0A = Swivel vice base
AAE001-00 = Bracket for CR CP1 pump

AAE001-01 - BRACKET FOR PUMP CP3
To be used with AZ0134-CR

AAE001-FORD – BRACKET FOR POMP FORD (DELFHI)
To be used with AZ0134-CR

AAE001-MERC – BRACKET FOR POMP CR MERCEDES CP1
To be used with AZ0134-CR

AAE000-04A – BRACKET FOR DELPHI PUMPS (2 HOLES)
To be used with AZ0134-00 or with vice AA2919-01 with AA2963-00
COMMON RAIL PUMPS

AZ0018-01 - TOOL KIT FOR CP1 PUMP

AZ0018-02 - TOOL KIT FOR CP3 PUMP

AZ0070-CP1H - TOOL KIT FOR ANTI-POWDER FILTERS ON CP1 CP1H
Kit with tools to dismount and mount of anti-powder filters and caps on pumps CP1 e CP1H
The tool kit is composed of:
All the codes are sold also individually

AAZ034-165 - PULLER FOR ANTI-POWDER FILTER ON CP1H
Similar: 0.986.613.165

AAZ034-153 – PULLER FOR ANTI-POWDER FILTER ON CP1H
Similar: 0.986.613.153

AAZ034-911 – INSERTER FOR VALVE CAGE ON CP1H
Similar: 0.986.612.911
COMMON RAIL PUMPS

AAZ034-169 - TOOL TO RE-MOUNT CAP 2.4 ON CP1H
Similar: 0.986.613.169

AAZ034-159 - TOOL TO RE-MOUNT CAP 1.5 ON CP1H
Similar: 0.986.613.159

AAZ034-161 - TOOL TO RE-MOUNT ANTI-POWDER FILTER ON CP1H
Similar: 0.986.613.161

AE0268-CR – KIT OF PULLERS TO EXTRACT DIESEL IN-LET BRASS PIPE ON CP1 AND CP1H
Diam. Brass pipe: 8 and 10 mm

AE0268-CR12 – CLAMP FOR BRASS PIPE OF DIESEL INLET
Diam. Brass pipe: 12mm
COMMON RAIL PUMPS

AAZ034-00 - INSERTER FOR CP1 CONNECTION
Pressing-in tool for low-pressure connection on CP1
Similar 0.986.612.200

AAZ034-01 - INSERTER FOR CP1 IVECO CONNECTION
Pressing-in tool for low-pressure connection on CP1 IVECO
Similar 0.986.612.201

AAZ034-02 - INSERTER FOR CP1 RENAULT CONNECTION
Pressing-in tool for low-pressure connection on CP1 RENAULT
Similar 0.986.612.205

AAZ034-03 - INSERTER FOR BRACKET AND OIL-SEAL FOR CP1 AND CP3
Inserter kit for oil-seal and bracket on common rail pumps CP1 and CP3
Similar 0.986.612.422

AAZ034-04 - SCREWS FOR HEAD COVERS CP1
Couple of screws to center the head cover on CP1 pump
Similar 0.986.602.501

AAZ034-05 - DEVICE TO MOUNT O-RING
To mount the o-ring on the pressure control valve with filter on Common Rail pumps
Similar 0.986.612.787
COMMON RAIL PUMPS

AC0520-00 – WRENCH TO DISMOUNT CONNECTION DENSO PUMP HP0 12 SIDES MM 50

AC0530-CP4 – WRENCH TO DISMOUNT VALVE ON PUMP CP4

AC0531-CP4 – WRENCH FOR COUPLING OF PUMP CP4 MOUNTED ON AUDI

AC0540-HP4 – WRENCH RIBE 09 TO DISMOUNT ELEMENT ON PUMPS DENSO HP3 – HP4

AC0528-CR – WRENCH 28MM X SENSOR POMP CP1 SIEMENS

AC0516-CR36 – OPEN WRENCH 36MM WITH CONNECTION FOR TROQUE WRENCH FOR PRESSURE SENSOR OF SIEMENS PUMPS
With connection for torque wrench 14x18
To be used with torque wrench AC0516-CR
COMMON RAIL PUMPS

AC0482-00 – WRENCH FOR IN-LET CONNECTION CP3
Similar 0.986.612.991

AC0468-00 – TORX WRENCH FOR COMMON RAIL CP3

AZ0128-26 – KIT TO MOUNT AND DISMOUNT SEEGER ON CR DELPHI PUMPS

AZ0128-427- TAPPET LIFTER KIT FOR CP3 + DURAMAX
Kit of 3 tappet lifters
Simile 0.986.612.427
For CP3 pumps and 110 DURAMAX pumps
COMMON RAIL PUMPS

AZ0128-25 – KIT OF INSERTERS FOR CP3

AZ0128-24 – ADJUSTING KIT FOR CP3 - 6 PIECES

AE0300-CP4 – PULLER FOR CP4 PUMP

AE0264-00 – PULLER FOR PRESSURE REGULATOR CP3
COMMON RAIL PUMPS

PUMPS ON TEST BENCH

AS0003-00 - BOSCH BRACKET ISO
Similar 1.688.010.124

AAE157-08 – FLANGE DIAM 50 FOR POMP CP1
VE flange that allows to mount on test bench CP1 pumps
Similar 1.685.720.062

AAE001-02 – FLANGE FOR CP3 PUMP

AAE001-03 – FLANGE WITH RING X CP3 MERCEDES PUMP

AAE000-04 – FLANGE FOR DELPHI-FORD PUMP
VE flange for Renault Megane that allows to mount on test bench common rail Delphi – Ford pump

AAE000-04A – FLANGE FOR DELPHI PUMPS (2 HOLES)
To use on test bench and on vice
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<td>FLANGE FOR C.R. DELPHI LOOP HOLES</td>
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<td>AAE001-NIP</td>
<td>FLANGE FOR CR DENSO PUMP HP2/3 ON FORD AND FIAT</td>
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<tr>
<td>AAE001-CP1H3</td>
<td>FLANGE FOR CP1 H3</td>
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<tr>
<td>AAE001-CP4</td>
<td>BRACKET FOR CP4</td>
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<tr>
<td>AAE002-CR</td>
<td>BRACKET FOR CR PUMPS MOUNTED ON NISSAN QASHQAI</td>
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<tr>
<td>AAE003-CR</td>
<td>BRACKET FOR CR PUMPS SIEMENS 5SW40157</td>
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<tr>
<td>AAE004-CR</td>
<td>BRACKET FOR CR PUMPS SIEMENS 5SW40565</td>
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COMMON RAIL PUMPS

KIT TO MOUNT COMMON RAIL PUMPS MERCEDES

AAE001-MERC – BRACKET CR MERCEDES CP1
To be used also with swivel vice AZ0134-CR

AAZ026-03 – KIT 2 CONNECTION WITH PLATE FOR CR MERCEDES PUMPS

AG0131-CR8 – MOTORING COUPLING FOR TEST BENCH FOR PUMPS CR CP1 –CUT MM8-
COMMON RAIL PUMPS

AAZ034-08 – ADAPTOR FOR PRESSURE SENSOR CP3
Adaptor for pressure sensor on pump CR –CP3

AAZ034-15 – ADAPTOR FOR PRESSURE SENSOR CP1H/CP3
Adaptor for pressure sensor pomp CR CP1H-CP3

AAZ034-07 – ADAPTOR FOR PRESSURE SENSOR DELPHI
Adaptor for pressure sensor pump CR DELPHI

AAZ034-16 – ADAPTOR FOR PRESSURE SENSOR SIEMENS
Adaptor for pressure sensor pumps CR SIEMENS

AAZ034-17 – ADAPTOR FOR PRESSURE SENSOR DENSO
Adaptor for pressure sensor pumps CR DENSO

AAZ034-20 – ADAPTOR FOR PRESSURE SENSOR SIEMENS-BOSCH
Adaptor for pressure sensor pumps CR BOSCH - SIEMENS
COMMON RAIL PUMPS

AAZ034-18 – REDUCTION FOR HIGH PRESSURE SIEMENS
Reduction for high-pressure pipes for Siemens pumps

AAZ034-19 – ADAPTOR FOR PRESSURE GOVERNOR ON SIEMENS PUMP
Adaptor for pressure governor on pumps Bosch Siemens

AAZ034-13 – DUMMY REGULATOR FOR CR CP1 PUMPS
Similar: 0.986.612.413

AAZ034-21 – PRESSURE REDUCTION SIEMENS WITH METERING VALVE

AAZ034-22 – ADAPTOR FOR DUMMY REGULATOR DENSO HP3 – CP3

AAZ034-CP4 – ADAPTOR FOR HIGH PRESSURE CONNECTION ON CP4 PUMPS
### COMMON RAIL PUMPS

**TOOLS FOR CP4 PUMPS**

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<tr>
<td>AE0233-CP4</td>
<td>Puller for CP4 pump mounted on BMW Serie 1</td>
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<tr>
<td>AE0290-CP4</td>
<td>Puller for CP4 pump mounted on AUDI</td>
</tr>
<tr>
<td>AE0276-CR</td>
<td>Puller for CP4 pump mounted on HYUNDAI SANTA FE With ring nut 40x1.5mm</td>
</tr>
<tr>
<td>AE0300-CP4</td>
<td>Puller for CP4 pump</td>
</tr>
<tr>
<td>AC0530-CP4</td>
<td>Wrench to dismount valve of CP4 pump</td>
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<tr>
<td>AC0531-CP4</td>
<td>Wrench for coupling of CP4 pump mounted on AUDI</td>
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<tr>
<td>AG0025-CP4</td>
<td>Coupling cone 25mm with screw for CP4 pump</td>
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<tr>
<td>AG0000-CP4</td>
<td>Screw 18x1.5mm for coupling cone 25mm</td>
</tr>
<tr>
<td>AAE001-CP4</td>
<td>Flange for CP4 pump</td>
</tr>
<tr>
<td>AAZ034-CP4</td>
<td>Adaptor for high-pressure connection for CP4 pump.</td>
</tr>
<tr>
<td>AZ0128-519</td>
<td>Timing tool kit for BMW engines with CP4 pump with camshafts back-rotary</td>
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</table>
COMMON RAIL PUMPS

BB0001-00 – COMMON RAIL BUSH –CP1-
External diameter: 19mm
Internal diameter: 17mm
Length: 15mm

BB0002-00 – COMMON RAIL BUSH –CP1-
External diameter: 22mm
Internal diameter: 20mm
Length: 20mm

BB0003-00 – COMMON RAIL BUSH –CP1-
External diameter: 26mm
Internal diameter: 24mm
Length: 20mm

BB0004-00 – COMMON RAIL BUSH –CP3-
External diameter: 19mm
Internal diameter: 17mm
Length 17mm

BB0005-00 – COMMON RAIL BUSH –CP3-
External diameter: 22mm
Internal diameter: 20mm
Length: 22mm

BB0006-00 – COMMON RAIL BUSH –CP3-
External diameter: 28mm
Internal diameter: 25mm
Length: 25mm

BB0007-00 – COMMON RAIL BUSH –CP3-
External diameter: 33mm
Internal diameter: 30mm
Length: 25mm
PIPPES & CONNECTIONS
## HIGH PRESSURE FLEXIBLE PIPES

<table>
<thead>
<tr>
<th>Code Sirini</th>
<th>Bosch code</th>
<th>Dimension</th>
<th>Nut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT005-00</td>
<td></td>
<td>6X2X300MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT006-00</td>
<td></td>
<td>6X2X300MM</td>
<td>14X12</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT007-00</td>
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<td>6X2X300MM</td>
<td>12X12</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT000-FX</td>
<td>1.680.750.000</td>
<td>6X2X400MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT001-FX</td>
<td>1.680.750.001</td>
<td>6X2X400MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT011-FX</td>
<td></td>
<td>6X2X400MM</td>
<td>12X12</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT073-FX</td>
<td>1.680.750.073</td>
<td>6X2X450MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT450-FX</td>
<td></td>
<td>6X2X450MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT020-FX</td>
<td>1.680.750.020</td>
<td>6X2X500MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT021-FX</td>
<td>1.680.750.021</td>
<td>6X2X500MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT008-FX</td>
<td>1.680.750.008</td>
<td>6X2X600MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT010-FX</td>
<td>1.680.750.010</td>
<td>6X2X600MM</td>
<td>12X12</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT014-FX</td>
<td>1.680.750.014</td>
<td>6X2X600MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT700-FX</td>
<td></td>
<td>6X2X700MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT701-FX</td>
<td></td>
<td>6X2X700MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT702-FX</td>
<td></td>
<td>6X2X700MM</td>
<td>12X12</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT017-FX</td>
<td>1.680.750.017</td>
<td>6X2X840MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT028-FX</td>
<td>1.680.750.028</td>
<td>6X2X840MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT085-FX</td>
<td>1.680.750.085</td>
<td>6X2.2X350MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
</tbody>
</table>
### HIGH PRESSURE PIPES X PUMP VP

<table>
<thead>
<tr>
<th>Code Sirini</th>
<th>Bosch code</th>
<th>Old Bosch code</th>
<th>Dimension</th>
<th>Nut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT100-BH</td>
<td>1.680.750.100</td>
<td>1.680.750.091</td>
<td>6X2.2X350MM</td>
<td>12X14</td>
<td>High pressure RIGIDO</td>
</tr>
<tr>
<td>AAT101-BH</td>
<td>1.680.750.101</td>
<td>1.680.750.092</td>
<td>6X2.2X450MM</td>
<td>14X14</td>
<td>High pressure RIGIDO</td>
</tr>
<tr>
<td>AAT102-BH</td>
<td>1.680.750.102</td>
<td>1.680.750.093</td>
<td>6X2X845MM</td>
<td>14X14</td>
<td>High pressure Flexible</td>
</tr>
<tr>
<td>AAT103-BH</td>
<td>1.680.750.103</td>
<td>1.680.750.096</td>
<td>6X2X450MM</td>
<td>12X14</td>
<td>High pressure Flexible</td>
</tr>
</tbody>
</table>

Attention: these pipes are sold individually and are compatible with the original ones BOSCH

### PIPES FOR TEST BENCH EPS 815

<table>
<thead>
<tr>
<th>Code Sirini</th>
<th>Bosch code</th>
<th>Dimension</th>
<th>Nut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAT227-FX</td>
<td>1.680.712.227</td>
<td>6X2X1000MM</td>
<td>14X12</td>
<td>with shaped connection high press. flex</td>
</tr>
<tr>
<td>AAT229-FX</td>
<td>1.680.712.229</td>
<td>6X2X1000MM</td>
<td>14X12</td>
<td>high pressure flexible</td>
</tr>
<tr>
<td>AAT815-00</td>
<td>1.680.712.230</td>
<td>6X2X1000MM</td>
<td>14X14</td>
<td>high pressure flexible BLU</td>
</tr>
</tbody>
</table>

**Images:**
- AAT105-BH – 1.680.750.105 High pressure
- AAT110-BH – 1.680.750.110 High pressure
- AAT120-BH – 1.680.750.120 High pressure
PIPES

PIPES FOR TEST BENCH AVM

AAT200-AVM – COUPLE OF SHAPED PIPES X AVM DELPHI
Similar: AHP5009 – AHP5010

SPECIAL PIPES

AAT099-00 – ROOSA MASTER PIPE
Shaped pipe for testing the calibration of Roosa Master injector

CONNECTION FOR TEST BENCH PIPES

AAZ010-30 – CONNECTION 14F X 12M
AAZ010-31 – CONNECTION 12F X 14M
AAZ010-35 – CONNECTION 16F X 14M
AAZ010-36 – CONNECTION 16F X 14F
To connect Bosch Piezo injector to test bench pipes
Special for EPS708
Adaptable to pipes 1.680.750.122 and 1.680.750.121

AAZ034-CP4 – CONNECTION FOR HIGH PRESSURE JOINT ON CP4 PUMP
To use with pipes with connection of 14mm
We suggest to buy nr. 2 pieces.
## RIGID PIPES FOR TEST BENCH

<table>
<thead>
<tr>
<th>Sirini Code</th>
<th>Codes</th>
<th>Measures</th>
<th>Nut in mm</th>
<th>Test pressure line for.....</th>
</tr>
</thead>
<tbody>
<tr>
<td>Codici</td>
<td>Misure</td>
<td>Dado in mm</td>
<td></td>
<td>Tubi banchi prova per.....</td>
</tr>
<tr>
<td>AAT001-CR</td>
<td>6X2.4X155</td>
<td>14X14</td>
<td>Common rail nozzleholders</td>
<td></td>
</tr>
<tr>
<td>AAT002-CR</td>
<td>6X2.4X155</td>
<td>12X14</td>
<td>Common rail nozzleholders</td>
<td></td>
</tr>
<tr>
<td>AAT003-CR</td>
<td>6X2.4X155</td>
<td>12X12</td>
<td>Common rail nozzleholders</td>
<td></td>
</tr>
<tr>
<td>AAT008-00</td>
<td>1.680.750.008</td>
<td>6 x 2 x 600</td>
<td>14 X 14</td>
<td>A, MW pumps</td>
</tr>
<tr>
<td>AAT014-00</td>
<td>1.680.750.014</td>
<td>6 x 2 x 600</td>
<td>12 X 14</td>
<td>K, A, M, MW pumps</td>
</tr>
<tr>
<td>AAT015-00</td>
<td>1.680.750.015</td>
<td>6 x 3 x 600</td>
<td>14 X 14</td>
<td>A, B, P (fino a pompante .), S7000 su Scania (con portainiettore 019) A, B, P (up to 11mm. of pumping group), S7000 on Scania (with nozzle holder 019)</td>
</tr>
<tr>
<td>AAT017-00</td>
<td>1.680.750.017</td>
<td>6 x 2 x 840</td>
<td>12 X 14</td>
<td>VA, VM, VE, F, NP, VE pumps</td>
</tr>
<tr>
<td>AAT021-00</td>
<td>1.680.750.021</td>
<td>6 x 2 x 500</td>
<td>14 X 14</td>
<td>CAV, SIMMS, GR.B pumps</td>
</tr>
<tr>
<td>AAT028-00</td>
<td>1.680.750.028</td>
<td>6 x 2 x 840</td>
<td>14 X 14</td>
<td>VA, VE pumps</td>
</tr>
<tr>
<td>AAT060-00</td>
<td>1.680.750.060</td>
<td>8 x 2 x 1000</td>
<td>14 X 18</td>
<td>12mm. P pumps</td>
</tr>
<tr>
<td>AAT069-00</td>
<td>1.680.750.069</td>
<td>8 x 4 x 1500</td>
<td>18 X 18</td>
<td>PEV, ZWM pumps</td>
</tr>
<tr>
<td>AAT073-00</td>
<td>1.680.750.073</td>
<td>6 x 2 x 450</td>
<td>12 X 14</td>
<td>VE, BMW pumps</td>
</tr>
<tr>
<td>AAT074-00</td>
<td>1.680.750.074</td>
<td>8 x 3 x 1000</td>
<td>14 X 16</td>
<td>Pomp P 12mm. con piastrina foro calibrato . P pumps with orifice plate with calibrated hole</td>
</tr>
<tr>
<td>AAT075-00</td>
<td>1.680.750.075</td>
<td>8 x 3 x 1000</td>
<td>14 X 14</td>
<td>P, S7100, S7800 pumps</td>
</tr>
<tr>
<td>AAT085-00</td>
<td>1.680.750.085</td>
<td>6 x 1.6 x 350</td>
<td>12 X 14</td>
<td>Pompa VE con iniettore diretto e rapido VE pumps with high-speed direct injection engine</td>
</tr>
<tr>
<td>AAT089-00</td>
<td>1.680.750.089</td>
<td>8 x 3 x 600</td>
<td>14 X 14</td>
<td>A, P, MW pumps</td>
</tr>
<tr>
<td>AAT114-00</td>
<td>AHP114</td>
<td>6 x 2.5 x 330</td>
<td>12 X 12</td>
<td>Epic PSA pumps</td>
</tr>
<tr>
<td>AAT126-00</td>
<td>AHP126</td>
<td>6 x 1.6 x 365</td>
<td>12 X 12</td>
<td>Epic Ford pumps</td>
</tr>
<tr>
<td>AAT133-00</td>
<td>AHP133</td>
<td>6 x 1.8 x 450</td>
<td>12 X 14</td>
<td>DP200 pumps</td>
</tr>
<tr>
<td>AAT134-00</td>
<td>AHP134</td>
<td>6 x 1.5 x 710</td>
<td>12 X 14</td>
<td>DP200 pumps</td>
</tr>
</tbody>
</table>
PIPED

RILSAN PIPES

AAT099-CR – RILSAN PIPE
To connect common rail injectors to the test bench
Length: 2 mt

AAT099-CR2 – DOUBLE RILSAN PIPE
To connect common rail injectors to the test bench
Pipe composed of nr. 2 pipes, one red and one black
Length: 1.30 mt

AAT099-CR8 – MULTI-RILSAN PIPE
To connect common rail injectors to the test bench
Tubo composed of nr. 8 pipes of different colors
Length: 1.50 mt

We can built pipes of each kind of dimension, rigid and flexible; useful to work up at low and high bar (up to 2500/3000 bar).
UNIT-INJECTORS
UNIT-INJECTOR UI-UP

Wrenches and tools for Volkswagen

AE0247-494 Puller for unit injector VW 2° generation
Puller from the engine.
For unit injector VW 2° serie – Bosch – Siemens
Similar: 0.986.611.494
To be used with our sliding hammer code AE0226-00

AE0226-00 – Sliding hammer Length: 340 mm

AE0247-03 Sliding hammer
Sliding hammer for unit-injectors Volkswagen.
Similar: 0.986.612.750

AZ0128-31 Timing tool for Volkswagen – Seat 1.2-3 cylinders
It is composed with:
1) Tool for blocking the driveshaft
2) Blocking pin for cam-shaft

AC0492-00 Bush wrench 1000 teeth VW Lupo
To mount and dismount the bracket of unit-injector UIS
UNIT-INJECTOR UI-UP

**AC0502-00 Dismounting wrench for solenoid Hes. 37mm**
Poligonal wrench to dismount unit-injector VW and Audi A6 solenoid.
Unit-injector code:
0.414.720.029
0.414.720.215

**AC0504-00 Dismounting wrench for solenoid 12 sides**
Wrench to dismount the solenoid of unit-injector VW and Audi A6 with 12 teeth.
Unit-injector code:
0.414.720.404

**AC0503-00 Dismounting wrench for nut**
Wrench to dismount the nut of unit-injector VW and Audi A6 with 18 teeth.
Unit-injector code:
0.414.720.404

**AC0506-20 Dismount wrench for nut**
Octagonal wrench to dismount the nut of Volkswagen unit-injector.
Wrench dimension: octagonal 20 mm

**AC0512-00 Wrench to dismount ring-nut of UI-P VW SIEMENS - PIEZO**
Wrench dimension: Hexagonal 29mm
UNIT-INJECTOR UI-UP

AC0513-00 Wrench to dismount ring-nut of UI-P VW SIEMENS - PIEZO
Wrench dimension: Octagonal 30mm

AC514-00 Wrench to dismount solenoid of UI-P SIEMENS VW PIEZO
Wrench dimension: 25 mm 12 sides.

AC515-00 Wrench to dismount nut of UI-P SIEMENS VW PIEZO
Wrench dimension: octagonal 17mm

AC0600-KIT Kit of wrenches:
AC0513-00
AC0514-00
AC0515-00
The wrench are sold also individually
UNIT-INJECTOR UI-UP

Wrenches for Bosch - Iveco

AC0495-00 Wrench for Solenoid Bosch - Iveco
Octagonal wrench to dismount solenoid of unit-injector Bosch-Iveco (38mm).
Similar: 0.986.613.239

AZ0501-CR32 Wrench to dismount the nut of Iveco Cursor
Open hexagonal wrench with dynamometric connection ½” to dismount the nut of unit-injector Iveco Cursor
Wrench dimension: diam. 32mm

AZ0128-50 Tool for timing adjustment of phonic disc on camshaft - IVECO CURSOR
Pins for timing on phonic wheel /PMS on IVECO CURSO 8/10/13
Similar: Iveco 99360612 - 99360613
They are INDISPENSABLE for timing

Wrench for Cummins

AC0517-00 Wrench to dismount the nut of CUMMINS
Wrench to dismount the nut of unit-injector CUMMINS
Nut code: 3652541 – PXDR0796
UNIT-INJECTOR UI-UP

Wrenches for Volvo

**AC0507-00 Wrench to dismount solenoid of Volvo**
Thooled wrench to dismount solenoid of Volvo (36mm)

**AC0496-00 Wrench to dismount the nut Volvo-Delphi**
Wrench to dismount the nut of Volvo Delphi 500HP
Diam: 39mm
It can be used also as a mask to open the nut of unit-injector Volvo with diam. 39mm without conjunction holes.

**AB0130-00 Clamp to dismount unit injector**
Clamp to open the nut of unit injector Volvo-Delphi
To open the nut without hexagon or holes
To be used on a vice

**AC0550-00 Wrench to open unit injector**
Wrench to open the nut of unit injector Volvo-Delphi-Rover
To open the nut without hexagon or holes
It can be used on vice AZ0313-CR to avoid breaking the pins
UNIT-INJECTOR UI-UP

Wrench for Rover

AC0494-00 Wrench to dismount the nut Rover
Wrench with 4 pins to dismount the nut of unit-injector Rover

Caterpillar

AZ0090-00 Kit for calibration unit injector Caterpillar type 127
Type 127 …8216
…8218
…8222
…8225

Engine 3114-3116
UNIT-INJECTOR UI-UP

Dismounting plates

**AB0127-00 Unit-injector plate**
Unit-injector plate to dismount unit-injector.
To be used with our swivel vice (AZ0134-00 – swivel vice for rotative pumps)
Wrench dimensions: 28.2mm; 32.5mm; 39.5mm
Similar: 0.986.613.237

**AZ0134-00 Swivel vice for rotative pumps**
Base vice to fix our unit-injector plate AB0127-00

**AB0128-00 Plate to fix unit injectors (ACTROS – ATEGO)**
Similar: 0.986.613.000
To be used with swivel vice (AZ0134-00 or on AA2919-00 with AA2963-00)

**AA2963-00 Plate for swivel vice**
Similar: KDEP 2963 – 0.986.611.358

**AA2919-00**
UNIT-INJECTOR UI-UP

Unit-injector disassembly

AZ0313-CR – Tool to dismount and mount common rail nozzleholders and unit-injectors.
Similar: 0.986.613.400 and 0.986.613.500

AZ0313-CELL – Force pick up with digital force indicator
Similar: 0.986.612.997
Measure: from 0 to 2500 kg (25000 Newton)

AZ0313-CR500 – Plate to transform the tool original Bosch 0.986.613.400 in common rail
Similar: 0.986.613.500
These plates, AZ0313-CR500, are included in our tool AZ0313-CR. The code AZ0313-CR500 is sold also individually.

AZ0313CRKIT– Kit 3 plates unit injector
The kit is composed with:
AZ0313-CR04 - For Truck
AZ0313-CR428 – Similar: 0.986.913.428 – VW 1°-2°Serie
AZ0313-CR429 – Similar: 0.986.613.429 – VW 3°Serie
The plates are sold also individually

AZ0313-DISC – Kit 3 graduated discs
Kit of 3 graduated discs with 3 different diameters
Degree: from 0 to 180
These discs, AZ0313-DISC, are included in our tool AZ0313-CR. The code AZ0313-DISC is sold also individually.
UNIT-INJECTOR UI-UP

AZ0313-CR01  – Pulverizer fixing bush 7 mm.
To fix the tip of the pulverizer of common rail injectors and unit-injector VW of 7 mm.
The code, AZ0313-CR01, is included in our tool AZ0313-CR. The code AZ0313-CR01 is sold also individually.

AZ0313-CR02  – Pulverizer fixing bush 9 mm.
To fix the tip of the pulverizer of common rail injectors and unit-injectors VW of 9 mm.
The code, AZ0313-CR02, is included in our tool AZ0313-CR. The code AZ0313-CR02 is sold also individually.

AZ0313-CR417  – Pulverizer fixing bush 7 mm with step.
To fix the tip of the pulverizer of unit-injector VW of 7 mm with step.
Similar: 0.986.613.417
The code, AZ0313-CR4171, is included in our tool AZ0313-CR. The code AZ0313-CR417 is sold also individually.

AZ0313-KIT  – Kit of pulverizer fixing bushes
Kit of 3 pulverizer fixing bushes for common rail injectors and unit-injectors of 7mm – 7 mm with step– 9 mm.
The kit includes the following codes: AZ0313-CR01 + AZ0313-CR417 + AZ0313-CR02.
The code, AZ0313-KIT, is included in our tool AZ0313-CR. The code AZ0313-KIT is sold also individually.

AZ0313-CR427  – Elastic capsule – Pick up spring
Elastic capsule – pressure 700 Nm – 70 Kg.
Similar: 0.986.613.427
## Test adaptors

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Thread Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>BR0004-03</td>
<td>EUI/PDE Scania – Volvo 420 – Iveco Cursor type 430</td>
<td>31 x 1 mm</td>
</tr>
<tr>
<td>BR0004-04</td>
<td>EUI/PDE Iveco Cursor type 350 - Volvo</td>
<td>28 x 1 mm</td>
</tr>
<tr>
<td>BR0004-05</td>
<td>EUI/PDE Volvo FH12 – Volvo 420 – Volvo 460</td>
<td>28 x 1 mm</td>
</tr>
<tr>
<td></td>
<td>Foro trasversale / Transversal hole</td>
<td></td>
</tr>
<tr>
<td>BR0004-08</td>
<td>EUI/PDE Volvo 460 Euro 2 - Scania</td>
<td>31 x 1 mm</td>
</tr>
<tr>
<td>BR0004-09</td>
<td>EUI/PDE Caterpillar – John Deere</td>
<td>28 x 1 mm</td>
</tr>
<tr>
<td>BR0004-10</td>
<td>EUI/PDE Volkswagen – 2º Serie</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Details</td>
</tr>
<tr>
<td>---------</td>
<td>--------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>BR0004-11</td>
<td>EUI/PDE Volkswagen</td>
<td></td>
</tr>
<tr>
<td>BR0004-12</td>
<td>EUI/PDE Land Rover</td>
<td>Filetto/Thread: 24 x 1 mm</td>
</tr>
<tr>
<td>BR0004-13</td>
<td>EUI/PDE Detroit</td>
<td>Filetto/Thread: 32 x 1.5 mm</td>
</tr>
<tr>
<td>BR0004-14</td>
<td>EUI/PDE Cummins L10-M11</td>
<td>Filetto/Thread: 30 x 1.5 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foro trasversale / Transversal hole</td>
</tr>
<tr>
<td>BR0004-15</td>
<td>EUI/PDE Cummins N14</td>
<td>Filetto/Thread: 1&quot; 1/8 – 18 UNEF</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(filetto tipo americano – American thread – UNEF)</td>
</tr>
<tr>
<td>BR0004-16</td>
<td>EUI/PDE Volvo 520 CV</td>
<td>Filetto/Thread: 34 x 1 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Foro trasversale / Transversal hole</td>
</tr>
</tbody>
</table>
UNIT-INJECTOR UI-UP

BR0004-17
EUI/PDE Caterpillar 3500
Filetto/Thread: 27 x 1.5 mm

BR0004-18
EUI/PDE Caterpillar marino – Cartepillar marine
Filetto/Thread: 36 x 1.5 mm

BR0004-19
EUI/PDE Nissan 440
Filetto/Thread: 31 x 1 mm
Foro trasversale / Transversal hole

BR0004-20
EUI/PDE Ivecco Stralis
Filetto/Thread: 36 x 1 mm

BR0004-21
EUI Volkswagen
Similar: 1.683.355.057

BR0004-22
EUI Volkswagen
Similar: 1.683.355.056
UNIT-INJECTOR UI-UP

**BR0004-23**
EUI Volkswagen
Similar: 1.681.398.033
Filetto/Thread: 25 x 0.75 mm

**AZ0313-BR**
Kit of 3 adaptors EUI Volkswagen
Kit composed of:
BR0004-21 - 1.683.355.057
BR0004-22 - 1.683.355.056
BR0004-23 - 1.681.398.033

**BR0004-24**
EUI Volkswagen – Siemens
Filetto/Thread: 24 x 1 mm

**BR0004-25**
EUI/PDE Cummins
Filetto tipo Americano – America Thread
To be used with our wrench AC0517-00

**BR0004-26**
EUI/PDE Volvo (4 pin)
Filetto/Thread: 34 x 1 mm
To be used with AC0550-00
UNIT-INJECTOR UI-UP

Checking device

AZ0055-02L Checking device to measure the valve seat of the solenoid on unit injector
Micrometer to check inner-dimension with 3 tips fro 6 to 8mm.
To measure the diameter of the solenoid valve seat of the unit injector.
To use before and after the lapping
Sold with guide and calibration ring

BEEPER
TO MEASURE BIP MOMENT

Tester to measure the BIP moment, universal adaptable to the most part of the cam-box (EUI) of old generation still on the market.

It permits to have the BIP quote of the bobin of unit-injectors (EUI).
For more information:

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