

repairing the future...

A 4000

COMPUTER AIDED REPAIR SYSTEM FOR REPAIRING ALL MAKES ELECTRONIC INJECTORS

No more Trial and Error

Everybody who has worked on electronic injectors knows that repair is just about trial and error. Sometimes the repair is not successful and the reason is unknown. Experience and knowledge is a must but it is not always enough to complete a successful repair.

A4000 CARS is the most advanced system to eliminate the trial and error in the electronic injector repair process. System is capable to calculate adjustment shim thickness at each step with micron accuracy.

The control software displays the calculated adjustment shim thicknesses together with assembly instructions at each step of the repair.

Anyone can Repair...



Complete solution
to an impossible
problem.



MAKTEST DIESEL
INJECTION TEST AND
REPAIR SOLUTIONS



A4000 Computer Aided Assembly System gives the ability to assemble the injector once and for all, eliminating the trial and error procedure. Its precision measuring unit and special tools work together with a special software that instructs the user what to do at each step of the repair and assembly process including calculating the exact adjustment shim thickness to be used.

A4000 is ready for repairing below injector groups:

Common Rail Injectors:

- Bosch CRI 1.0 - 2.0 - 2.1 - 2.18,
- Bosch CRIN 1.0 - 2.0 - 3.0,
- Denso G2
- L'Orange MTU 4000.01 & 4000.03 LEAD Series

HEUI Injectors

Caterpillar C7-C9 Injectors

EUI Injectors

Caterpillar C15-3406-C10-3500

Eliminates the Trial and Error

A4000 Computer Aided Assembly System is the most advanced equipment to eliminate the trial and error in the electronic injector repair process. System is capable to calculate adjustment shim thickness at each step within micron accuracy. The control software displays the calculated adjustment shim thicknesses together with assembly instructions at each step of the repair.

No Expert Needed!

Repairing Electronic Injectors is not a specialist's business anymore. A4000 eliminates the experience and expertise needed to assemble the Electronic Injectors.

Increase your Productivity

A4000 Computer Aided Assembly System speeds up and simplifies the repair process. Repair procedure becomes safer with the accuracy and instructions provided by the A4000 CARS control software.

Assemble 6 Injectors at the same time!

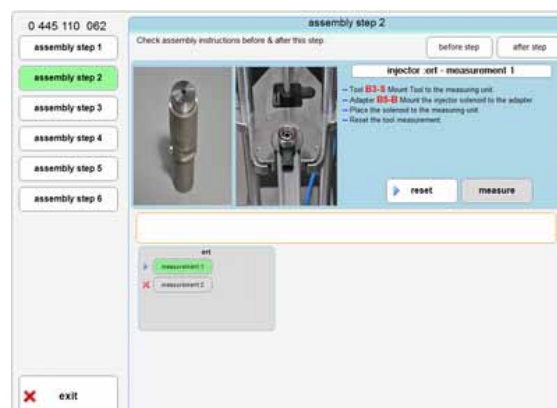
A4000 software instructs to assemble 6 injectors all at once, improving your production capacity all by itself.



Some Optional Tools & Adapters

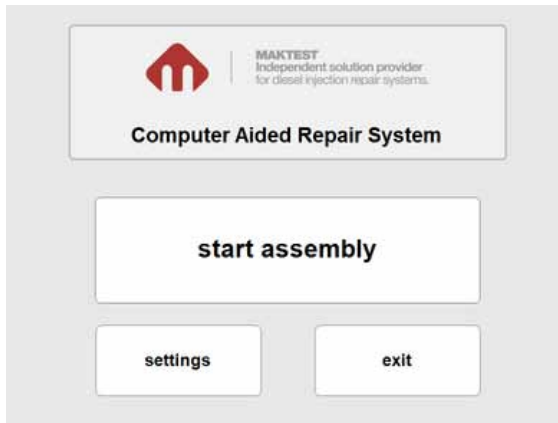


Air Gap Testing



Test Screen of CARS Control Software

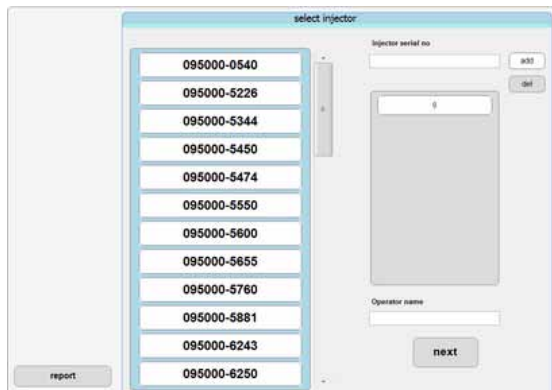




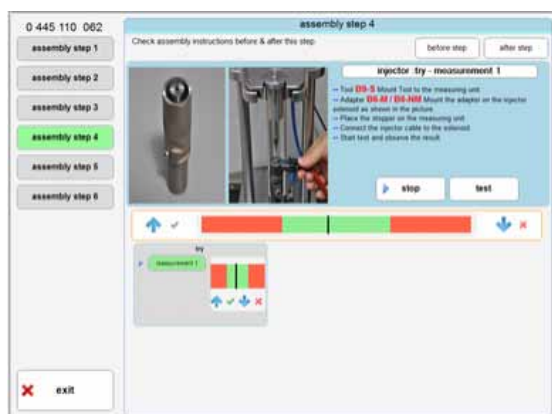
Home Screen of CARS Control Software



Select OEM Screen



Select Injector OEM Number Screen



Air Gap Testing Screen

Electricity Requirement:

220V 50/60 Hz Single Phase

Air Supply:

min 5 bar, min 1 m³/min Flow, dry and oil free

Delivered Accessories With This Product

- KO4002 Measurement Unit
- 6 Pcs. Plastic Trays
- 1 tweezers (anti-magnetic).
- Bosch, Denso and Standard Injector Cables

The A4000 utilizes CARS repair control software to repair the electronic injectors.

CARS repair control software requires a dedicated computer and this is not supplied as part of the A4000, the end user is responsible for supplying the computer.

The following hardware specification is required to utilize software and interface with A4000 electronic drive module.

Operating System : Min Windows 7 or over.

Processor : min. Intel i3 core family or better.

Ram : min 4 GB

Mass Storage : Min. 120 GB

USB Interface : Min 1 USB 2 Port.

Dimensions

Packing Dimensions:

Width: 800 mm

Depth: 620 mm

Height: 1160 mm

Weight: 45 kgr



Optional Accessories and Tools Recommended

- KO4100 MEASURING TOOL SET FOR BOSCH CRI 1.0/2.0/2.1/2.2 CRIN 1.0/2.0/3.0
- KO4200 Denso G2 Tool and Adapter Set
- KO4300 Bosch Piezo Tool and Adapter Set
- KO4500 Caterpillar C15 Assembly Tool Set
- KO4600 CAT C7/C9 HEUI Tool and Adapter Set
- KO4700 Lorange MTU 4000.01 Series Tool and Adapter Set
- KO1475 Clean bench, for disassembly and repair
- KO1521 Denso disassembly tool set
- KO1579C Bosch CRIN 2.0 ve 3.0 Disassembly Set
- KO1382 CBosch CRI ve CRIN 1.0 Disassembly Set
- KO1560 Torque Wrench
- KO1376 BOSCH CONTROL VALVE PULLER
- KO1382C Bosch CRI Disassembly Tool Set
- KO1556 CONTROL VALVE ASSEMBLY TOOL FOR CR/IPL29/ZIRIS20S
- KO1509 BOSCH SEAL ASSEMBLY TOOL CRI/CRIN1.0/CRIN2.0
- KO1557 SEAL ASSEMBLY TOOL FOR CR/IPL29/ZIRIS20S
- KO1534 SOLENOID SOCKET 27 MMDetail
- KO1536 SOLENOID SOCKET 30 MMDetail
- KO1559 DENSO NOZZLE HOLDER REMOVING TOOL SET
- KO1510 BOSCH CONTROL VALVE ASSEMBLY TOOL
- KO1548 CONTROL VALVE PULLER FOR BOSCH
- KO1533 SOLENOID SOCKET 25 MM Detail
- KO1535 SOLENOID SOCKET 28 MMDetail
- NOZZLE HOLDER DISASSEMBLY SOCKET TOOL SET
- KO1550 BOSCH FIXING NUT REMOVING TOOL SET
- KO1521C DENSO INJECTOR REPAIR TOOL SET
- KO1585 CATERPILLAR CR 320D SERVICE TOOL SET
- KO1494 CONTINENTAL VDO PLUG WRENCH
- KO1586 DENSO 095000-1211 SERVICE TOOL SET
- KO1873 C7/C9 Repair Tool Set

Accuracy is
Everything When
Repairing Electronic
Injectors...



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For more detailed information, contact your Maktest Inc. distributor or visit



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