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Tester Flex

- SCREEN 3”
- AVAILABLE CAR/TRUCK/BIKE DIAGNOSTICS
- BUILT-IN 2-CHANNEL OSCILLOSCOPE AND MULTIMETER
- BUILT-IN MAGNETI MARELLI PROCEDURES
- WIRELESS COMMUNICATION
- MAGNETI MARELLI +PLUS EXCLUSIVE KNOW HOW

TECHNICAL FEATURES:
- Lightweight and compact, with anti skid and shock resitance
- Built-in Display for constantly monitoring the device status
- Oscilloscope integrated 2-channel high-speed
- Integrated multimeter
- Connecting via USB or Bluetooth device
- Cable Kit with software and accessories for the professional use of the scope

ADVANCED FUNCTIONS:
- Unique system of evolved diagnostic
- full diagnostics: parameters, statuses, error codes, activations, encoding of components, technical schematics, reports, recording of tests
- Special functions: OK, Plus Exclusive Magneti Marelli know-how, Easy Fix and Easy Scope functions
- Innovative integrated system with serial diagnosis and oscilloscope / multimeter
- Driven system for testing of the components present in the engine
- Full acquisition of the trace with memory storage
- Revision of the tracks stored for later analysis to vertical

SET INCLUDES:
1 FLEX TESTER
1 eobd cable
1 eobd cable extension
1 battery clamp cable
1 scope cable with bnc 4mm, 2.7m red
1 scope cable bnc 4mm, 2.7m blue
1 multimeter probe black
1 multimeter probe red
1 little red clamp
1 little black clamp
1 attenuator 20:1
1 kit piercing probe
Support vehicle Hook
Installation CD
Fast guide
Bag

Software Features | Flex Scope
---|---
Math Channels | Invert
| CH1+CH2
| CH1-CH2
| CH1xCH2
| CH1/CH2
Zoom (10,000 point), real time | Maximize, Minimize, Custom
Measure | Maximum, Minimum, Period, Frequency, DC average, Duty cycle, Peak-Peak, AC RMS, Fall time, Rise Time, High Pulse, Low Pulse, True RMS
Component Analysis | Easy Scope include:
Technical Data
How to test a specific component
Scope Automatic Setting
Cursor | Time, Amplitude, Time & Amplitude
Functions | Fast Fourier Transform
| Binary Can Analisys (coming soon)
RAM store data Analisys (Buffer) | Acquire continuous window in built-in RAM specific sampling rate
| Review data window by window
Fligh Recorder | Store road test data into Internal flash memory (coming soon)
Save & Recall | Store waveform and multimeter trace
| Recall to compare with new acquisition

“Chosen by the Chrysler Training Academy for conducting vehicle diagnosis and training future technicians on all makes and models in every Chrysler Training Center across the US”. 
**Tester Flex**

---

**OSCILLOSCOPE VIEW**

---

**MARELLI USER INTERFACE 2.0**

---

**MULTIMETER VIEW**

---

**OPTIONS:**

- 007935830020 - Wall power supply
- 007935901100 - Support vehicle hook for Tester Flex
- 007935901110 - Probe Coil-on-plug for Tester Flex

---

**KIT MEASURE CURRENT**

- 1 clamp meter 20/60A
- 1 Clamp Meter 600A
- 1 adapter for the current test of fuse 308B
- 1 adapter for the current test of fuse 307C
- 2 battery clamps

---

**KIT SCOPE ADVANCED**

- 1 meter black probe tip
- 1 red multimeter probe tip
- 1 small red alligator clip
- 1 small black alligator clip
- 1 20:1 attenuator
- 1 large red alligator clip (also called dolphin)
- 1 large black alligator clip (also called dolphin)
- 1 bundle 6 breakout cables universal 1.5mm
- 1 bundle 6 breakout cables universal 2.3mm
exclusive Magneti Marelli know how

A collection of useful tools to help the mechanic to solve all those situations that require additional knowledge of the vehicle or equipment. Also useful for those not familiar with the specific diagnosis engine control. A new interface is simple and quick to use fast and seamless tool.

NEW OK FUNCTIONS

EASY - FIX
A guide to test the component responsible for the fault, simple and intuitive interface that exploits the presence of integrated tools such as oscilloscope and multimeter.

EASY - SCOPE
A guide to using the oscilloscope and the tests of generic components of a vehicle, such as sensors, actuators, fans, etc.

GUIDED DIAGNOSIS

PARAMETERS REFERENCES

EASY – FIX VIEW

SPARE PARTS VIEW

TECHNICAL DATA VIEW

* ANNUAL SUBSCRIPTION MANAGEMENT PARTS FOR MUI 2.0 007935800090
Starting from the error code, the mechanic can see immediately what are the parts that may be involved with the problem. From the list that appears, you can see the codes OE, Magneti Marelli and those with related expenses, optionally you can with the press of a button see the codes of the various suppliers.

* ANNUAL SUBSCRIPTION TECHNICAL DATA FOR MUI 2.0 007935800095
A rich base of technical information to help the mechanical, electrical schematics and procedures suitable to test the component that should be investigated. An indispensable aid to anyone who wants to increase the professionalism of your own garage.

*(Coming soon)
Tester Vision

- TOUCH SCREEN 8"
- AVAILABLE CAR/TRUCK/BIKE DIAGNOSTICS
- BUILT-IN 4-CHANNEL OSCILLOSCOPE AND MULTIMETER
- BUILT-IN MAGNETI MARELLI PROCEDURES
- WIRELESS COMMUNICATION
- MAGNETI MARELLI +PLUS EXCLUSIVE KNOW HOW

TECHNICAL FEATURES
- shock-resistant construction, with additional rubber protection
- 8” diagonal touch screen: resolution 800x600, 262144 display colors
- internal battery charge via OBDII diagnostic connector and through a power supply adapter
- integrated wireless communication module
- system extension connectors: 3 x USB, endoscope, refrigeration gases
- oscilloscope: 4 channels, sampling 15 MS/s, display resolution 8 bit
- multimeter: display resolution 10 bit, electrical isolation of multimeter/oscilloscope

ADVANCED FUNCTIONS:
- full diagnostics: parameters, statuses, error codes, activations, encoding of components, technical schematics, reports, recording of tests
- road tests with a possibility of graphical results presentation
- special functions: OK, Plus Exclusive Magneti Marelli know-how
- 4-channel oscilloscope with graphical results presentation
- a readable LCD display for a clear analysis of diagnosis results
- displaying of images from an external endoscope directly on the Vision tester screen (optional)
- wireless Bluetooth connection for communication and remote diagnostics from a computer
- integrated Diagnostics/Oscilloscope/Technical bulletins together with instructions for error codes recognition and analysis, also with the use of oscilloscope
- possibility to change a display mode from horizontal to vertical

TESTER ACCESSORIES

007935800040 - Adapter cable for Diascope
007935900450 - Adapter cable for TEXA CAR
007935900460 - Adapter cable for TEXA Truck
007935911540 - Adapter cable Brain Bee
007935911530 - Adapter cable Pintech
007935911900 - Adapter cable Motorscan
007935911910 - Adapter cable SX
007950006420 - Bluetooth device
007935911960 - Endoscope probe
007935800040 - Docking Station
007935830170 - Trolley
007935830020 - Wall power supply

OSCILLOSCOPE - TECHNICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>ARM Stellaris TEXAS LM3S2793 CORTEX-M3</td>
</tr>
<tr>
<td>Sampling rate</td>
<td>10 MHz</td>
</tr>
<tr>
<td>Sampling speed</td>
<td>25 MS/s</td>
</tr>
<tr>
<td>Memory</td>
<td>64 K</td>
</tr>
<tr>
<td>Galvanic isolation</td>
<td>Yes</td>
</tr>
<tr>
<td>Number of channels</td>
<td>4</td>
</tr>
<tr>
<td>Measured parameters</td>
<td>Voltage, Resistance, Diode test</td>
</tr>
<tr>
<td>Tolerance</td>
<td>1 %</td>
</tr>
<tr>
<td>Input impedance</td>
<td>0.1 M</td>
</tr>
<tr>
<td>Input signal</td>
<td>DC, AC</td>
</tr>
<tr>
<td>Max. input voltage</td>
<td>Max 200 V</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>of 10 steps 0.1 V/div – 20 V/div</td>
</tr>
<tr>
<td>Resistance</td>
<td>1 Ω /div – 100 kΩ/ div</td>
</tr>
<tr>
<td>Resistance measurement</td>
<td>max. 1 MΩ</td>
</tr>
</tbody>
</table>

IT, ENG, FRA, DE, SPA, POR, GR, POL, HR, BG, NOR, RU, TUR, HU, NED, ROM, CZE
**+Plus**

exclusive Magneti Marelli know how

A collection of useful tools to help the mechanic to solve all those situations that require additional knowledge of the vehicle or equipment. Also useful for those not familiar with the specific diagnosis engine control. A new interface is simple and quick to use fast and seamless tool.

### NEW OK FUNCTIONS

**EASY - FIX**
A guide to test the component responsible for the fault, simple and intuitive interface that exploits the presence of integrated tools such as oscilloscope and multimeter.

**EASY - SCOPE**
A guide to using the oscilloscope and the tests of generic components of a vehicle, such as sensors, actuators, fans, etc..

### AND MORE.. PC REMOTE CONNECTION

The same functionalities are present through the Bluetooth connection, where you can sitting in your office, make a complete diagnosis or analysis of a vehicle.
Smart and Logic testers are multi-brand devices featuring the same database and similar philosophy, with the following principal features:

- **Tester Smart** - fully independent device, equipped with a comfortable keypad, a readable color display (262,000 colors), efficient battery. Thanks to the built-in multiplexer, the tester does not require any external adapters or cooperating devices.

- **Test Logic** - an interface that enables a pc based, testing of vehicles. Communication between the cooperating computer and the tester is performed wirelessly, thanks to the Bluetooth technology, or in a classic way - with the use of a USB cable. It also includes a built-in multiplexer, the tester-vehicle connection and the vehicle testing can be carried out without using of any external devices.

### TESTER SMART
- Tight and compact design, additional anti-fall and anti-shake protection
- Built-in battery
- Clear and easy-to-read color LCD display with a resolution of 320x240Pix
- Interface enabling an extremely easy and clear diagnosis
- The kit includes: EOBD, car cigarette lighter and car battery power supply lead, SD cards reader, CD with software.

### TECHNICAL FEATURES
- **Display:** 3.5", resolution 320x240Pix, 262000 colors
- **Processor, memory:** Intel / Marvell II PXA 270, 416MHz, 32MB RAM, 16MB Flash
- **Operating System:** Linux
- **Removable memory card:** SD, 1GB
- **Communication protocols:** ISO9141, ISO14230, J1850PWM, J1850VPW, ISO15765, RS485, CAN C, J2411 Euro 4/5
- **Supply voltage:** 8 – 36V
- **Multiplexer:** 13 x 2 channels, built-in

### TESTER LOGIC
- Compact cover, with anti-fall and anti-shock rubber protection
- Built-in Bluetooth antenna
- Built-in multiplexer
- Readable and easy-to-use software,
- The kit includes: EOBD lead, car cigarette lighter and car battery power supply lead, CD with software.

### TECHNICAL FEATURES:
- **Processor, memory:** Fujitsu MB96F543 + Altera EP1M77128SQ, 128kB RAM
- **Communication protocols:** ISO9141, ISO14230, J1850PWM, J1850VPW, ISO15765, RS485, CAN C, J2411 Euro 4/5
- **Supply voltage:** 8 – 36V
- **Multiplexer:** 13 x 2 channels, built-in
- **PC communication:** Bluetooth, USB
- **Connection cable:** PC-Logic (USB - RS232)

---

**IT, ENG, FRA, DE, SPA, POR, GR, HR, BG, NOR, RU, TUR, HU, NED, ROM, CZE**
Body Tester FGA
For Fiat, Alfa Romeo, Lancia, Fiat Professional, Abarth, Jeep

**DIAGNOSTIC SYSTEMS**
- ABS
- TRACTION CONTROL
- ESP
- AIRBAG
- AIR-CONDITIONING
- POWER STEERING
- IMMOBILIZER
- CENTRAL LOCKING
- DASHBOARD
- BODY COMPUTER
- COMFORT SYSTEM
- ALARM
- CAN NETWORK
- INDICATORS
- AUTOMATIC GEARBOX
- GEARBOX ELECTRONICS
- ENGINE ELECTRONICS
- DOOR COMPUTERS
- SUSPENSION CONTROL
- ELECTRIC SEAT ADJUSTMENT
- MIRRORS
- PARKING ASSISTANT SENSORS
- CAR CABIN COMPUTER
- ELECTRIC PARKING BRAKE
- CRUISE CONTROL

**TECHNICAL ADVANTAGES:**
- SCANNING/DELETING Of DTC ERRORS
- ENGINE COMPONENTS AUTO-ADJUSTMENT
- KEYS/AIRBAG CODING
- PARAMETERS READING

**TECHNICAL FEATURES:**
- 3.5” display: Resolution 320x240, 65539 color display
- Processor: Intel/Marvell PXA270 – RAM 32MB – Flash 16MB.
- Operating system: Linux
- Keypad: 16 function buttons + 1 on/off button
- Multiplexer: built-in, 13 x 2 channels,
- Built-in battery with charging function through an OBD socket or an external power supply adapter
- Memory card: minimum 1GB
- Supply voltage: 8 to 36 V from an OBD socket or a power supply adapter

**DIAGNOSTICABLE SYSTEMS**
- ABS
- TRACTION CONTROL
- ESP
- AIRBAG
- AIR-CONDITIONING
- POWER STEERING
- IMMOBILIZER
- CENTRAL LOCKING
- DASHBOARD
- BODY COMPUTER
- COMFORT SYSTEM
- ALARM
- CAN NETWORK
- INDICATORS
- AUTOMATIC GEARBOX
- GEARBOX ELECTRONICS
- ENGINE ELECTRONICS
- DOOR COMPUTERS
- SUSPENSION CONTROL
- ELECTRIC SEAT ADJUSTMENT
- MIRRORS
- PARKING ASSISTANT SENSORS
- CAR CABIN COMPUTER
- ELECTRIC PARKING BRAKE
- CRUISE CONTROL

**FEATURES:**
- transfer of data from the device’s memory and the detailed analysis of errors/consumption
- driving style analysis in terms of fuel consumption, and confrontation of the data after the repair of the vehicle
- driving control system with an acoustic real time signaling of the driver’s errors, with a possibility of configuration through a PC (e.g. rapid acceleration, exceeding the set speed, etc.)
- verification of the parameters important in the diagnostics of LPG/CNG supply systems
- possibility of printing out of a report on the monitored vehicle
- possibility of setting of a sampling time through a PC
- EOBD real time diagnostics with the parameters’ preview visualization/deleting of errors (except for P1XXX), Freeze Frames feature
- graphical analysis of real parameters
- ECO-DRIVE function for proper driving style management

**TECHNICAL DATA:**
- 4 Mb internal memory for data recording
- can record 8 parameters with the sampling time of 5 seconds for a period of 170 hours
- two-color LED diode (red/green) for signaling of the device status
- buzzer for sound signals of important events (errors, programmed functions, etc.)
- communication protocols: SAEJ1850VPW, SAEJ1850PWM, ISO 9141, ISO 14230, ISO 11898 CAN
- Automatic Identification of Communication Protocol Supported by the vehicle
- processor ARM 32bit - 512Kb internal memory
- USB 2.0 port for PC connection
- updates of the device via Internet
- compatibility with Windows XP, Vista and Windows 7 (32bit and 64bit)
- supported supply voltage 12 and 24 V (for Truck - Bus uses)
- Lithium battery with an option of charging via an EOBD socket
- protective system against unplugging of the device from the EOBD socket
- Dimensions: 43.50 x 22.50 x 25.15 mm. Weight: 20g
- Operating temperature -40 to 85 C
- compliant with the E24 10R-030604 norm

**OBD Road**
- SAVING PARAMETERS AND ERRORS WHILE DRIVING
- INTERNAL MEMORY 4 MB
- BUZZER FOR ACOUSTIC SIGNALING
- REAL TIME EOBD DIAGNOSIS
- SUITED FOR TRUCK - BUS USES
- POSSIBILITY TO DELETE ERRORS

**FEATURES:**
- transfer of data from the device’s memory and the detailed analysis of errors/consumption
- driving style analysis in terms of fuel consumption, and confrontation of the data after the repair of the vehicle
- driving control system with an acoustic real time signaling of the driver’s errors, with a possibility of configuration through a PC (e.g. rapid acceleration, exceeding the set speed, etc.)
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- possibility of printing out of a report on the monitored vehicle
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- EOBD real time diagnostics with the parameters’ preview visualization/deleting of errors (except for P1XXX), Freeze Frames feature
- graphical analysis of real parameters
- ECO-DRIVE function for proper driving style management

**SPECIAL FEATURES:**
- saving parameters and errors while driving
- internal memory 4 MB
- buzzer for acoustic signaling
- real time EOBD diagnosis
- suited for truck - bus uses
- possibility to delete errors
**COMPARATIVE PARAMETERS**

Magneti Marelli software offers the possibility to compare the actual parameters with the reference parameters stored in the software. The parameters database is constantly developed and extended to include new models. Often, it is not possible to check whether a value is correct. Based on many years of experience, manufacturer know-how, and the constantly updated database, we provide workshops with this function.

**FAILURE ANALYSIS**

**+Plus exclusive Magneti Marelli know how**

Failure Analysis are detailed step-by-step advice, which enable to diagnose a failure quickly and accurately.

**TECHNICAL BULLETINS**

In the software, Magneti Marelli provides the support in the form of bulletins informing about the causes and possible solutions of some errors.

**GRAPHIC PARAMETERS**

The possibility of presenting and registration of the parameters in graphical form facilitates the diagnosis of most systems.

**+Plus exclusive Magneti Marelli know how**

Ok - functions which enable to perform the most important features in a quick and smart way

Ok - system allows to select the function by the operator regardless of the number of units involved in the operation

Ok - allows to perform complex calibration without advanced diagnostic knowledge
Diagnostic testers allow for a readout of actual parameters and error codes, enables activation of actuating elements and preview of controllers information. Wide adjustment possibilities allow for, among others: injector coding, steering angle sensor calibration, key and tire pressure sensor coding, FAP regeneration, electric brake support, airbag restart. The software includes database containing plenty of manual procedures and important information concerning coding, regulation and the diagnostics itself.

The list of supported systems includes, among others:

<table>
<thead>
<tr>
<th>System</th>
<th>Code</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS/ASR/ESP</td>
<td>Immobilizer</td>
<td>Rear module</td>
</tr>
<tr>
<td>Airbag</td>
<td>Onboard instruments</td>
<td>Navigation</td>
</tr>
<tr>
<td>Car parking assistant</td>
<td>Air-conditioning</td>
<td>Pre-supply pump</td>
</tr>
<tr>
<td>Body Computer</td>
<td>Immobilizer card coding</td>
<td>Radio</td>
</tr>
<tr>
<td>Central locking</td>
<td>Keys coding</td>
<td>Level sensors regulation</td>
</tr>
<tr>
<td>Code</td>
<td>Coding of central locking remote controls</td>
<td>Electric mirrors/seats regulation</td>
</tr>
<tr>
<td>Dashboard/Immobilizer</td>
<td>Control of diesel fuel additives</td>
<td>Distance sensors regulation</td>
</tr>
<tr>
<td>Dashboard/Immobilizer</td>
<td>Door control</td>
<td>Left headlight regulation</td>
</tr>
<tr>
<td>Tire control diagnostics</td>
<td>Gear selector lever electronics control</td>
<td>Right headlight regulation</td>
</tr>
<tr>
<td>Battery recharge</td>
<td>Electric sunroof control</td>
<td>Headlight beam adjustment</td>
</tr>
<tr>
<td>Electronically controlled clutch</td>
<td>Seat check</td>
<td>Service reset</td>
</tr>
<tr>
<td>Electronically controlled 4x4 drive</td>
<td>Steering angle control</td>
<td>Gearbox control</td>
</tr>
<tr>
<td>Steering wheel's electronics</td>
<td>Light check</td>
<td>Hi-Fi system</td>
</tr>
<tr>
<td>Fuel pump electronics</td>
<td>Traction control</td>
<td>Comfort/Anti-theft system</td>
</tr>
<tr>
<td>Engine electronics</td>
<td>Rear spoiler control</td>
<td>Comfort systems</td>
</tr>
<tr>
<td>Gearbox electronics</td>
<td>suspension control/adjustment</td>
<td>TPMS</td>
</tr>
<tr>
<td>suspension electronics</td>
<td>CAN Line</td>
<td>Anti-theft protection</td>
</tr>
<tr>
<td>Power assisted steering</td>
<td>Post-collision assistance module</td>
<td></td>
</tr>
<tr>
<td>Trailer jack</td>
<td></td>
<td>Front module</td>
</tr>
</tbody>
</table>

IT, ENG, FRA, DE, SPA, POR, GR, POL, HR, BG, NOR, RU, TUR, HU, NED, ROM, CZE
THE DEVICE CAN BE EXPANDED TO INCLUDE DIAGNOSTIC CABLE KITS FOR ASIAN AND EUROPEAN CARS.

THE CABLE KIT FOR EUROPEAN CARS:

- diagnostic cable Ford 007935900490
- diagnostic cable Renault 007935900530
- diagnostic cable PSA (30 PIN) 007935900560
- diagnostic cable Mercedes 007935900590
- diagnostic cable Iveco Daily 007935900620
- power cable 007935900470
- diagnostic cable Opel 007935900520
- diagnostic cable PSA (2 PIN) 007935900540
- diagnostic cable BMW 007935900570
- diagnostic cable Sprinter / LT 007935900610
- diagnostic cable FIAT 007935900510

CABLE KIT FOR ASIAN CARS:

- diagnostic cable Daewoo 007935900600
- diagnostic cable Hyundai 007935900630
- diagnostic cable Nissan 007935900640
- diagnostic cable Toyota 007935900670
- diagnostic cable Suzuki 007935900690
- diagnostic cable Suzuki 007935900690
- diagnostic cable Mitsubishi 007935900630
- diagnostic cable Kia 007935900650
- diagnostic cable Honda 007935900680
- diagnostic cable Subaru 007935900700
- power cable 007935900470

LIST OF CAR MAKES SUPPORTED BY MAGNETI MARELLI TESTERS:

<table>
<thead>
<tr>
<th>Abarth</th>
<th>Fiat</th>
<th>Lotus</th>
<th>Rover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alfa Romeo</td>
<td>Ford</td>
<td>Mahindra</td>
<td>Saab</td>
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<tr>
<td>Aston Martin</td>
<td>GM</td>
<td>Maserati</td>
<td>Seat</td>
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<td>Maybach</td>
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<td>Smart</td>
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<td>Bentley</td>
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<td>Mercedes</td>
<td>Ssangyong</td>
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<td>BMW</td>
<td>Infinity</td>
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<td>Mini</td>
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<td>Chevrolet</td>
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<td>Lada</td>
<td>Peugeot</td>
<td>Volvo</td>
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<td>Piaggio</td>
<td>VW</td>
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<tr>
<td>Daimler</td>
<td>Lancia</td>
<td>Porsche</td>
<td></td>
</tr>
<tr>
<td>Dodge</td>
<td>Land Rover</td>
<td>Renault</td>
<td></td>
</tr>
<tr>
<td>Ferrari</td>
<td>Lexus</td>
<td>Rolls-Royce</td>
<td></td>
</tr>
</tbody>
</table>
THE DIAGNOSTIC SYSTEM ENABLES FULL DIAGNOSTICS OF TRUCK SYSTEMS, ACTUAL PARAMETERS READOUT, FAULT CODES READOUT, ACTIVATION OF ACTUATING ELEMENTS, INJECTOR TESTING. NUMEROUS USEFUL REGULATION FUNCTIONS ALLOW FOR, AMONG OTHERS: CLUTCH CALIBRATION, SERVICE RESET, SUSPENSION CALIBRATION, KEYS CODING, EBS VALVE REPLACEMENT, SUSPENSION ECU REPLACEMENT.

THE LIST OF SUPPORTED SYSTEMS INCLUDES, AMONG OTHERS:

<table>
<thead>
<tr>
<th>System</th>
<th>Function</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABS</td>
<td>Immobilizer module</td>
<td>Dehumidifier filter service reset</td>
</tr>
<tr>
<td>Airbag</td>
<td>Headlight module</td>
<td>Air filter service reset</td>
</tr>
<tr>
<td>Central Anti-theft system</td>
<td>Rear lights module</td>
<td>First front axle service reset</td>
</tr>
<tr>
<td>Body Computer</td>
<td>Modular panel</td>
<td>First rear axle service reset</td>
</tr>
<tr>
<td>Air-conditioning</td>
<td>Main control panel</td>
<td>Second front axle service reset</td>
</tr>
<tr>
<td>Keys coding</td>
<td>Doors</td>
<td>Second rear axle service reset</td>
</tr>
<tr>
<td>Injector coding</td>
<td>Dashboard</td>
<td>Overall service reset</td>
</tr>
<tr>
<td>Control of pneumatic/hydraulic system</td>
<td>Vehicle engine adjustment</td>
<td>Engine coolant service reset</td>
</tr>
<tr>
<td>Cylinder balancing</td>
<td>Retarder</td>
<td>Engine service reset</td>
</tr>
<tr>
<td>AdBlue control</td>
<td>Independent heating (Webasto, EBERSPRAChER)</td>
<td>Periodic service reset</td>
</tr>
<tr>
<td>Doors check</td>
<td>Pressurized air reservoir</td>
<td>Retarder service reset</td>
</tr>
<tr>
<td>Ebs service reset</td>
<td>Oil reset</td>
<td>Distributor service reset</td>
</tr>
<tr>
<td>Gearbox electronics</td>
<td>Front axle service reset</td>
<td>Power steering</td>
</tr>
<tr>
<td>Engine electronics</td>
<td>Rear axle service reset</td>
<td>Tachograph</td>
</tr>
<tr>
<td>Suspension electronics</td>
<td>Gearbox service reset</td>
<td>ABS/SUSPENSION ECU replacement</td>
</tr>
<tr>
<td>Gearbox electronics</td>
<td>Suspension control/adjustment</td>
<td>TPMS</td>
</tr>
<tr>
<td>Suspension electronics</td>
<td>CAN Line</td>
<td>Anti-theft protection</td>
</tr>
</tbody>
</table>

THE LIST OF SUPPORTED SYSTEMS INCLUDES, AMONG OTHERS:

IT, ENG, FRA, DE, SPA, POR, GR, POL, HR, BG, NOR, RU, TUR, HU, NED, ROM, CZE
RICH CABLE KITS ALLOW FOR DIAGNOSTICS OF MOST TRUCKS, SEMI-TRAILERS AND TRAILERS.

CABLE KIT FOR TRUCKS:

- 700 diagnostic cable Renault 007935900810
- 651 diagnostic cable Iveco 007935900620
- 671 diagnostic cable Volvo 007935900730
- 674 diagnostic cable man (37 pin) 007935900760
- 607 diagnostic cable Fiat 007935900510
- 547 power cable 007935900470
- 650 diagnostic cable Mercedes 007935900610
- 670 diagnostic cable scani /daf 007935900720
- 674 diagnostic cable man (12 pin) 007935900760
- 646 extension diagnostic cable 007935900580

SEMITRAILER CABLE KITS:

- 672 diagnostic cable Wabco-knorr 007935900740
- 681 diagnostic cable Haldex eb+ 007935900790
- 684 diagnostic cable Haldex abs 007935900800

LIST OF TRUCK MAKES, SEMI-TRAILERS AND TRAILERS SUPPORTED BY THE MAGNETI MARELLI TESTERS:

<table>
<thead>
<tr>
<th>VEHICLES</th>
<th>SEMI-TRAILERS / TRAILERS</th>
<th>L</th>
<th>Paganini</th>
</tr>
</thead>
<tbody>
<tr>
<td>Astra</td>
<td>Acerbi</td>
<td>Kogel</td>
<td>Pannisar</td>
</tr>
<tr>
<td>Bova bus</td>
<td>Adamoli</td>
<td>Krone</td>
<td>Pavelli</td>
</tr>
<tr>
<td>DAF</td>
<td>Adige</td>
<td>SSBohner</td>
<td>Rolfo</td>
</tr>
<tr>
<td>De Simon</td>
<td>Arteo</td>
<td>Lecinena</td>
<td>Schmitz</td>
</tr>
<tr>
<td>Iris bus</td>
<td>Cardi</td>
<td>Meiller-Kipper</td>
<td>Schwartz</td>
</tr>
<tr>
<td>Iveco</td>
<td>Carlux</td>
<td>Menci</td>
<td>Schwartzmuller</td>
</tr>
<tr>
<td>Iveco bus</td>
<td>Carmosino</td>
<td>Merker</td>
<td>Tabarini</td>
</tr>
<tr>
<td>MAN</td>
<td>CCFC</td>
<td>Michieletto</td>
<td>Taison</td>
</tr>
<tr>
<td>MAN bus</td>
<td>Chiavetta</td>
<td>Miele</td>
<td>Teksystem</td>
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<tr>
<td>Mercedes</td>
<td>CTB</td>
<td>Montenegro</td>
<td>Tecnokar</td>
</tr>
<tr>
<td>Peterbilt</td>
<td>Doll</td>
<td>Multitrailer</td>
<td>Tiras</td>
</tr>
<tr>
<td>Renault</td>
<td>D-Tec</td>
<td>Nardi</td>
<td>Trailor</td>
</tr>
<tr>
<td>Scania</td>
<td>Feldbinder</td>
<td>Minerva</td>
<td>Viberti</td>
</tr>
<tr>
<td>Scania bus</td>
<td>FGM car</td>
<td>O.ME.P.S.</td>
<td>Zorzi</td>
</tr>
<tr>
<td>Volvo</td>
<td>Goldhofer</td>
<td>Omar</td>
<td></td>
</tr>
<tr>
<td>Volvo bus</td>
<td>Gontrailer</td>
<td>Ommps Macola</td>
<td></td>
</tr>
</tbody>
</table>
MAGNETI MARELLI DEVICES ARE A RESPONSE TO CAR WORKSHOPS’ GROWING DEMAND FOR SIMPLE AND USER-FRIENDLY DIAGNOSTIC TESTERS. THEY OFFER BOTH THE ADVANCED FUNCTIONS AND RICH SERVICE POSSIBILITIES. THE KEY FEATURE THAT MAKES THEIR SOFTWARE DIFFERENT FROM THE COMPETITORS IS THE MENU, BUILT ON THE BASIS OF A COMPLETELY NEW PHILOSOPHY. IT ALLOWS FOR A QUICK ACCESS TO THE MOST FREQUENTLY USED FUNCTIONS. A COMPLETE NOVELTY IN MAGNETI MARELLI DIAGNOSTIC RANGE IS THE SOFTWARE THAT ENABLES TESTING OF MOTORCYCLES. IT CAN COOPERATE WITH MOST OF POPULAR MOTORCYCLE MAKES, OFTEN (FOR EXAMPLE, IN CASE OF DUCATI) BEING AS GOOD AS THE SERVICE DEVICES. A FULL RANGE OF CABLES FOR CONNECTIONS TO SPECIFIC DIAGNOSTIC SOCKETS OF VARIOUS MOTORCYCLES IS OF COURSE AVAILABLE AS WELL.

THE SOFTWARE ENABLES A READOUT OF ERRORS AND ACTUAL PARAMETERS, PROCESSING OF ACTIVATION AND OF BASIC ADJUSTMENTS, SUCH AS IMMOBILIZER BYPASS, TRIMMER ADJUSTMENT OR THROTTLE RESET.

CABLE KIT FOR MOTORCYCLES:

<table>
<thead>
<tr>
<th>Cable Type</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 - universal cable</td>
<td>007935900480</td>
</tr>
<tr>
<td>pfm002 - diagnostic cable Aprilia</td>
<td>007935900880</td>
</tr>
<tr>
<td>pfm003 - diagnostic cable Kawasaki (03-06)</td>
<td>007935900820</td>
</tr>
<tr>
<td>pfm005 - diagnostic cable Harley</td>
<td>007935900900</td>
</tr>
<tr>
<td>pfm006 - diagnostic cable BMW 2</td>
<td>007935900920</td>
</tr>
<tr>
<td>pfm010 - diagnostic cable Honda (06-)</td>
<td>007935900850</td>
</tr>
<tr>
<td>pfm011 - diagnostic cable Suzuki</td>
<td>007935900840</td>
</tr>
<tr>
<td>pfm001 - diagnostic cable Benelli</td>
<td>007935900890</td>
</tr>
<tr>
<td>pfm012 - diagnostic cable Kawasaki (07-)</td>
<td>007935900830</td>
</tr>
<tr>
<td>pfm004 - diagnostic cable Peugeot</td>
<td>007935900910</td>
</tr>
<tr>
<td>pfm009 - diagnostic cable BMW 1</td>
<td>007935900860</td>
</tr>
<tr>
<td>pfm008 - diagnostic cable Honda 3pin</td>
<td>007935900870</td>
</tr>
<tr>
<td>pfm007 - diagnostic cable Honda (immo)</td>
<td>007935900930</td>
</tr>
<tr>
<td>pfm017 - diagnostic cable Ducati (08-)</td>
<td>007935900950</td>
</tr>
</tbody>
</table>

LIST OF MOTORCYCLE MAKES SUPPORTED BY MAGNETI MARELLI TESTERS:

<table>
<thead>
<tr>
<th>Motorcycle Make</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aprilia</td>
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</tr>
<tr>
<td>Ducati</td>
<td></td>
</tr>
<tr>
<td>Honda</td>
<td></td>
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<tr>
<td>Mondial</td>
<td></td>
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<tr>
<td>Sherco</td>
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<tr>
<td>Benelli</td>
<td></td>
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<tr>
<td>Gasgas</td>
<td></td>
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<tr>
<td>Kawasaki</td>
<td></td>
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<tr>
<td>Morini</td>
<td></td>
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<tr>
<td>Suzuki</td>
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<tr>
<td>Bimota</td>
<td></td>
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<tr>
<td>Gilera</td>
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<tr>
<td>KVN</td>
<td></td>
</tr>
<tr>
<td>MV</td>
<td></td>
</tr>
<tr>
<td>Triumph</td>
<td></td>
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<tr>
<td>BMW</td>
<td></td>
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<tr>
<td>Guzzi</td>
<td></td>
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<tr>
<td>Laverda</td>
<td></td>
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<tr>
<td>Peugeot</td>
<td></td>
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<tr>
<td>Voxan</td>
<td></td>
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<tr>
<td>Cagiva</td>
<td></td>
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<tr>
<td>HD</td>
<td></td>
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<tr>
<td>Malaguti</td>
<td></td>
</tr>
<tr>
<td>Piaggio</td>
<td></td>
</tr>
<tr>
<td>Yamaha</td>
<td></td>
</tr>
</tbody>
</table>

IT, ENG, FRA, DE, SPA, POR, GR, POL, HR, BG, NOR, RU, TUR, HU, NED, ROM, CZE
Tester Smart - Tyres/Fast Fit License

DIAGNOSABLE SYSTEMS
- ENGINE ELECTRONICS
- IMMOBILIZER
- SERVICE RESET
- TRACTION CONTROL
- TIMING BELT RESET SERVICE
- TYRE PRESSURE MONITORING SYSTEM
- THROTTLE POSITION SENSOR RESET
- ROBOTIZED GEARBOX
- INSTRUMENT PANEL
- ABS

DIAGNOSABLE MANUFACTURERS
- APRILIA
- BENELLI
- BIMOTA
- BMW
- CAGIVA
- DUCATI
- GASGAS
- GILERA
- GUZZI
- HONDA
- HONDA
- KAWASAKI
- KVN
- KYMCO
- LAVERDA
- MALAGUTI
- MONDIAL
- MV
- PEUGEOT
- PIAGGIO
- Suzuki
- TRIUMPH
- YAMAHA

Tester Smart - Body shops License

ACCEPTANCE
- Vehicle Errors Auto Scan *
- Engine Component Activation
- Solenoid valve activation (engine)
- Rear-view mirrors activation
- Window lifter activation
- Lights activation
- Central Lock activation

DELIVERY
- Vehicle errors automatic deletion*
- The functions generate a report that can be used both in the acceptance phase (estimate) and in the vehicle delivery phase (statement of work carried out)

PROCESSING
- Air-conditioning restart
- ESP steering angle adjustment
- Suspension
- Keys encryption
- Remote controls encoding
- Airbag encoding
- ECUs configuration

AVAILABLE TRADITIONAL DIAGNOSIS
- Engine electronics
- ABS/Friction Control/ESP
- Airbag
- Air-conditioning
- Power Steering/Electrical Steering
- Immobilizer
- Central Lock
- Instrument Panel

DIAGNOSTICABLE MANUFACTURERS
- ALFA
- CADILLAC
- DAIMLER
- HUMMER
- LADA
- MAYBACH
- PAGANI
- SEAT
- UAZ

- ALPINA-BMW
- CHEVROLET
- DODGE
- HYUNDAI
- LAMBORGHINI
- MAZDA
- PEUGEOT
- SMART
- VOVLO

- ASTON MARTIN
- CHRYSLER
- FERRARI
- INNOCENTI
- LANCIA
- MERCEDES
- PORSCHE
- SSANGYONG
- VW

- AUDI
- CITROEN
- FIAT
- VECO
- LAND ROVER
- MG
- RENAULT
- SUBARU

- AUTOBIANCHI
- Dacia
- FORD
- JAGUAR
- LEXUS
- MINI
- ROLLS-ROYCE
- SUZUKI

- BENTLEY
- DAEWOO
- GM
- JEEP
- LOTUS
- MITSUBISHI
- ROVER
- TATA

- BMW
- DAIHATSU
- DACIA
- HODA
- KIA
- MASERATI
- NISSAN
- SAAB
- TOYOTA

IT, ENG, FRA, DE, SPA, POR, GR, POL, HR, BG, NOR, RU, TUR, HU, NED, ROM, CZE
Asian Gold

- tight and compact design, additional anti-fall and anti-shake protection
- built-in battery that guarantees several hours of operation. It can be charged either with an AC adapter (included in the kit) or through a connector from the diagnosed vehicle.
- clear and readable monochromatic LCD display with a resolution of 320x240Pix
- function keyboard with durable and clear control buttons
- readable interface in multi-language, leading the diagnostician between individual functions in a clear way
- built-in database
- implemented OBDII scanner
- diagnostic functions previously reserved for authorized services
- can be connected to a PC (PC Scan function)
- supports the latest CAN protocols

TECHNICAL FEATURES:

Dimensions: 
- Width 125mm
- Height 223mm
- Thickness 68/43mm

Display: 
- Resolution 320x240 Pix
- 12x40 characters
- LCD backlight

Built-in memory: 128MB

Operating temperature: 0°C -50°C

Communication protocols:
- all Korean vehicles
- CAN Bus
- OBD-II (ISO 9141-2)
- OBD-II (SAE J1587)
- OBD-II (SAE-J1850)
- KWP-2000

ASIAN GOLD ENTRY LEVEL

Asian Gold Entry Level is a fully functional version of Asian Gold tester. However, it is not equipped with cables for Asian cars, which can be bought separately. It is equipped with an EOBD cable, which supports most brands on the market.

The ASIAN diagnostic testers line is a complete novelty in the Magneti Marelli offer. They are universal, multi-make devices offering advanced diagnostics of Asian vehicles, in Korean cars presenting the level of quality similar to the service testers, while retaining the possibility of a comprehensive diagnosis of European and American cars to an extent far exceeding the majority of multi-make testers.

The Asian family includes 2 models, differing primarily by the handling and comfort of use.

- Asian GOLD - a fully independent device, equipped with a function keypad, clear and contrast display, efficient battery. It enables diagnostics with no use of any external appliances;
- Asian Gold Entry Level - an annual subscription, activated from the moment the device runs for the first time.

The price of the ASIAN Line devices includes an annual subscription, activated from the moment the device runs for the first time.
THE MOST IMPORTANT FUNCTIONS OF THE ASIAN TESTERS ARE, AMONG OTHERS:

- EPB electric brake handling
- Extended service procedures (VAG group)
- Inspection reset
- Brake bleeding
- Engine Control reset
- Initiation of lateral acceleration sensors
- Supply pump initiation
- Battery initiation
- Energy consumption optimization
- Torque sensor calibration
- Keys coding / reset
- Tire pressure sensor coding
- Injector coding
- Oil quality setting
- Airbag coding
- Xenon headlights calibration
- Display language change
- VIN number entry
- DPF filter regeneration
- DPF pressure sensor reset
- EGR initialization

LIST OF CAR MAKES SUPPORTED BY THE ASIAN TESTERS:

<table>
<thead>
<tr>
<th>ACURA</th>
<th>DAEWOO</th>
<th>HONDA</th>
<th>LADA</th>
<th>NISSAN</th>
<th>SAAB</th>
<th>SUBARU</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALFA ROMEO</td>
<td>DAIHATSU</td>
<td>HYUNDAI</td>
<td>LANCIA</td>
<td>OPEL</td>
<td>SAMSUNG</td>
<td>SUZUKI</td>
</tr>
<tr>
<td>AUDI</td>
<td>FIAT</td>
<td>INFINITY</td>
<td>LEXUS</td>
<td>PERODUA</td>
<td>SCION</td>
<td>TATA</td>
</tr>
<tr>
<td>BMW</td>
<td>FORD</td>
<td>ISUZU</td>
<td>MAZDA</td>
<td>PEUGEOT</td>
<td>SEAT</td>
<td>TOYOTA</td>
</tr>
<tr>
<td>CHRYSLER*</td>
<td>GM*</td>
<td>JEEP*</td>
<td>MERCEDES</td>
<td>PROTON</td>
<td>SKODA</td>
<td>VW</td>
</tr>
<tr>
<td>CITROEN</td>
<td>HOLDEN*</td>
<td>KIA</td>
<td>MITSUBISHI</td>
<td>RENAULT</td>
<td>SSANGYONG</td>
<td>VOLVO</td>
</tr>
</tbody>
</table>

THE BASIC ASIAN TESTERS SET INCLUDES:

ASIAN GOLD
- Asian Gold – the device
- OBD 16PIN cable
- USB cable
- car cigarette lighter power supply lead,
- tester rubber protection
- instruction manual
- carrying case
- AC adapter
- CD with software
- diagnostic cable Toyota/Lexus (17 PIN)
- diagnostic cable Nissan/Infinity (14 PIN)
- diagnostic cable Mitsubishi (12 PIN)
- diagnostic cable Mitsubishi (12 + 16 PIN)
- diagnostic cable Honda/Acura (3 PIN)
- diagnostic cable Honda/Acura (5 PIN)
- diagnostic cable Mazda (17 PIN)
- diagnostic cable Mazda (6 + 1 PIN)
- diagnostic cable Subaru (9 PIN)
- diagnostic cable Kia (6 + 1 PIN)
- diagnostic cable Kia (20 PIN)
- diagnostic cable Daewoo (12 PIN)
- diagnostic cable Ssangyong (14 PIN)
- diagnostic cable Ssangyong (20 PIN)
- diagnostic cable Low Speed CAN

IT, FR, GER, ENG, SPA, POL, POR, TUR, GRE
THE OPTIONAL CABLE KIT FOR EUROPEAN CARS INCLUDES:
- diagnostic cable Audi/VW (2+2 PIN) 007920005800
- diagnostic cable BMW (20 PIN) 007920005810
- diagnostic cable Mercedes (38 PIN) 007920005820
- diagnostic cable Mercedes (3-six-way) 007920005830
- diagnostic cable Opel (3 PIN) 007920005840
- diagnostic cable PSA (2 PIN) 007920005850
- diagnostic cable PSA (30 PIN) 007920005860
- diagnostic cable Renault (12 PIN) 007920005870
- diagnostic cable Fiat (3 PIN) 007920005810

THE OPTIONAL CABLE KIT FOR ASIAN CARS INCLUDES:
- diagnostic cable HYUNDAI, MITSUBISHI (12P) 007920005650
- diagnostic cable KIA, MAZDA (61P) 007920005660
- diagnostic cable KIA 20P (BLUE) 007920005670
- diagnostic cable DAEWOO, GM (12P) 007920005680
- diagnostic cable SSANGYONG (14P) 007920005690
- diagnostic cable SSANGYONG (20P) 007920005700
- diagnostic cable TOYOTA, LEXUS (17P R”) 007920005710
- diagnostic cable TOYOTA, LEXUS (17P C”) 007920005720
- diagnostic cable SAMSUNG / NISSAN (14P) 007920005730
- diagnostic cable MITSUBISHI (12P 16P) 007920005740
- diagnostic cable HONDA (3P) 007920005750
- diagnostic cable HONDA (5P) 007920005760
- diagnostic cable MAZDA „C” (17P) 007920005770
- diagnostic cable SUBARU (9P) 007920005780
- diagnostic cable LOW SPEED CAN 007920005790

THE OPTIONAL CABLE KIT FOR AMERICAN / AUSTRALIAN CARS INCLUDES:
- diagnostic cable Ford (20 PIN): 007920005900

OPTIONALLY:
- Battery Kit 007920004530
- Main Obd cable 16pin 007920005580
- Wall power supply 007920005600
- Cigarette plug power cable 007920005590

ANNUAL SUBSCRIPTION:
- Asia / Japan + Europe / America / Australia 007920005000
- Asia / Japan 007920005010
- Europe / America / Australia 007920005020

FUNCTIONS
- Connection Localization
- Diagnostics
- Units Calculator
- OBD-II Scanner

POL, HU, ENG, ITA, GER, SPA, FRE, TUR, CR, CZE, ROM
Asian Connect Evolution

PC BASE SCAN TOOL COMBINING CONVENIENT USE & ACCURATE DIAGNOSIS WITH

More Stable Diagnosis available with bluetooth interface

FEATURES:
- Stable Communication (more than 50m)
- J2534 Hardware Ready
- Using Power Button
- Supported Windows OS 32bit/64bit
- Isolation of USB Interface

TECHNICAL DATA:

<table>
<thead>
<tr>
<th>Item</th>
<th>Detail Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>O.S</td>
<td>Windows XP, Windows VISTA, Windows 7 Support (16/32bit)</td>
</tr>
<tr>
<td>Connecting Method</td>
<td>Wireless LAN: IEEE 802.11 b/g/n</td>
</tr>
<tr>
<td></td>
<td>Bluetooth: 2.0</td>
</tr>
<tr>
<td></td>
<td>USB: USB 2.0 (Compliant)</td>
</tr>
<tr>
<td>Protocol</td>
<td>- CAN Bus (capable of ISO 15765, GMLAN, J1939, and ISO14229)</td>
</tr>
<tr>
<td></td>
<td>- 2nd CAN (Dual or Single Wire)</td>
</tr>
<tr>
<td></td>
<td>- Ford SCP (J1850PWM)</td>
</tr>
<tr>
<td></td>
<td>- GM Class2 (J1850PWM)</td>
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<td></td>
<td>- KWP2000 (ISO9141/14230)</td>
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<td>- Chrysler SCI (J2610)</td>
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<td>- K-line</td>
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<td>- L-line</td>
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<td></td>
<td>- 5V SCI</td>
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<td>J2534 Support</td>
<td>Vehicle Diagnosis</td>
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<td></td>
<td>- Korean, Japanese, European, American Vehicle</td>
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<td></td>
<td>- OBD – II</td>
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<tr>
<td></td>
<td>- Trouble Code and Sensor Data Dual Display</td>
</tr>
<tr>
<td></td>
<td>- Maximum 14 Sensor Data One Screen Display</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>10°C – 60°C</td>
</tr>
<tr>
<td>Operating Voltage</td>
<td>7 – 35 [V]</td>
</tr>
</tbody>
</table>

New Software

MAIN INTERFACE PAGE

CAR BRAND SELECTION PAGE

SYSTEM SELECTION PAGE
Battery Maintenance

BATTERY TESTER
Tester of the battery, charging efficiency and voltage drop values, equipped with a printer. The Magneti Marelli Battery Tester is a universal tester for checking both the condition of the battery itself as well as the cooperating elements - alternator and starter; it is also possible to monitor voltage drops under the starter load, and the receivers used while driving (heating windows, lights, etc.). All the operations, as well as the printout itself, can be presented in Polish language.

CAR BATTERY TESTS
- current voltage
- inrush current
- graphical percentage summary of the battery state and its degree of charge
- recommendations concerning the battery (charging, replacement, urgent replacement).
All the tests can be carried out on the following batteries: gel, AGM (automatic), VRLA (partially automatic), SLI (standard). Inrush current can be supplied in compliance with one of the following norms: SAE, EN, IEC, DIN and JIS.

TESTS ON THE VEHICLE
- voltage drop on ignition
- test of charging without the load (checking the alternator and voltage regulator)
- test of charging under the load (also checking the efficiency of on-board electrical devices)
- voltage stability test (checking the voltage regulator and the alternator diode)

PRINTER
All the tests carried out by MM Battery Tester not only can be viewed on a large and clear display equipped with adjustable backlighting, but they can also be immediately printed using the built-in printer. Such a print contains all the tested data, providing the customer with full information, both concerning the battery state and the state of alternator and voltage regulator. MM Battery Tester is an extremely easy to use and user friendly advice. All the available tests are carried out step by step, according with the instructions given by the tester.

BAT90 BATTERY CHARGER WITH BOOSTER FUNCTION
It is an intelligent microprocessor charger with start function, with a reasonable price and efficient cooling system combined with high functionality guarantee professional recovery of a battery or engine start.
Technical specifications:
Charges: 12V Lead-acid, AGM, GEL, VRLA batteries
(Excluding batteries that are not rechargeable)
Input: AC 220-240 V 5A/50Hz
Output Charge Mode: 5 and 30 A (Ampere)
Starting engine: 90 A (amperes)
(The cooling time after each rotation of the engine crankshaft: At least 3 minutes)
(Continuous turning the engine crankshaft: 0-5 seconds)
Maintenance mode output: pulse charging
Dimensions: 20 (L) x 20 (W) x 13 (H) cm
Weight: 6.3 kg

BAT5 BATTERY CHARGER
It is a compact microprocessor charger with smart charge function, reasonably priced and small, which combined with high functionality guarantees professional battery recovery Safe: protection degree IP65 dust / splash / rain resistant, protection against reverse connection of poles / sparking; protection against battery overcharge and short circuit protection.
Easy: The bright LEDs identify the exact state of charge.
Light: Portable design and compact construction.
Charges: 12V Lead-acid, AGM, GEL, VRLA batteries
(Excluding batteries that are not rechargeable)
Input: SC5E AC 220-240 V1A/50Hz
Output Charge Mode: 5A
Maintenance mode output: pulse charging
Dimensions: 16.0 (L) x 9.6 (W) x 5.4 (H) cm
Weight: 0.85 kg
**TPMS Connect Evo**

**IDEAL PARTNER FOR TESTING AND CODING OF THE WIRELESS TIRE PRESSURE SENSOR SYSTEMS**

**TPMS CONNECT**
- conducting of an initial system check when taking the car in, before any action is taken on the wheels or sensors
- ID IDENTIFICATION OF INDIVIDUAL SENSORS IN WHEELS, WITHOUT removing the tires
- complex system control at the time the vehicle is returned to the customer (e.g. after a completed tire service) - checking for errors and possible causes of TPMS indicator activation on the dashboard
- wireless measurement of tires temperature and pressure
- error-free and easy diagnostics and control of the TPMS system components - making it easier for the operator to service vehicles, quoting the code of parts and tightening torques for elements
- data transmission activation through individual sensors

**DIAGNOSTICABLE MANUFACTURERS:**
Passenger cars: Acura, Alfa, Audi, Bentley, BMW, Bugatti, Cadillac, Chevrolet, Chrysler, Citroen, Dodge, Ferrari, Fiat, Ford, Honda, Hyundai, Hummer, Infiniti, Jeep, Kia, Lancia, Land Rover, Lexus, Maserati, Mercedes-Benz, Mercury, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Saab, Skoda, Toyota, Volkswagen, Volvo.

Dimensions (approx.) 190 x 120 x 50mm
LCD Screen: backlit, 4 x 16 characters
Keypad: 5 keys (Up, Down, Enter, ESC)+ON /OFF
Supply voltage: built-in battery

**FROM 2012, TPMS SYSTEM IS MANDATORY IN NEWLY APPROVED VEHICLES**

**FUNCTIONS:**
- VEHICLE ACCEPTANCE: Allows for a control (for example, in the presence of the customer) of proper TPMS system functioning when taking the vehicle to the site; BEFORE any service interventions are made
- VEHICLE PREPARATION: Makes it easier to service the car when working with wheels and TPMS system, providing tightening torques for screws and bolts, indicating tire pressure and allowing for a check of the codes of pressure sensors servingas replacement parts.
- VEHICLE DELIVERY: control of TPMS system functioning and of tire pressure in the wheels AFTER the service works are carried out. Connecting of TPMS tester to a PC enables a printout of a complete report of the performed test.

**KIT OBD per TPMS CONNECT EVO**

**Inspection Recorder**

Magenti Marelli Videoendoscope offers the possibility of recording video and taking pictures. Ideal for looking up hard to reach places and corners, extremely useful in the workshop in diagnosing engine and other hidden items such as the evaporator. The device is equipped with a 2 m probe and a 45 degrees mirror.

**PROBE TECHNICAL SPECIFICATIONS:**
- Image Sensor: CMOS image sensor
- Resolution (Dynamic / Static): 320 (H) x 240 (V)
- Diameter: 5.5 mm
- Length: 2 m
- Field of view (FOV): 54 °
- Depth of field: 1.5 cm - 5 cm
- Light source: 4 LEDs with adjustable brightness
- Probe operating temperature: -20°C to 60°C
- Degree of protection: IP57

**VIDEOENDOSCOPE TECHNICAL SPECIFICATIONS:**
- LCD TFT 3.5 ”, 320x240 pixels
- Mini USB 1.1 interface AVOUT
- Rechargeable lithium-polymer batteries (3.7 V)
- Power Supply 100 - 240 V AC input / 5 V DC output
- Output video format NTSC and PAL
- Recording media SD card (comes with 1 GB capacity / may use up to 2 GB capacity)
- Compression format MPEG4
- Still image recording format: JPEG (640 X 480)
- Video recording format ASF (320 x 240)
- Temperature range of operation and storage/battery charging -20°C to 60°C / 0°C to 40°C

**FUNCTIONS:**
- snapshots, video recording, preview of images and video on the LCD screen, TV-output, moving images and video from SD card to PC

**Magneti Marelli Videoendoscope**

- Offers the possibility of recording video and taking pictures.
- Ideal for hard to reach places and corners.
- Extremely useful in workshop diagnoses.

**Dimensions:**
- 190 x 120 x 50 mm

**Screen:**
- TFT 3.5”, 320x240 pixels

**Battery:**
- Rechargeable lithium-polymer batteries (3.7 V)

**Power Supply:**
- 100 - 240 V AC input / 5 V DC output

**Video Format:**
- NTSC and PAL

**Recording Media:**
- SD card (comes with 1 GB capacity / may use up to 2 GB capacity)

**Compression Format:**
- MPEG4

**Still Image Format:**
- JPEG (640 X 480)

**Video Recording Format:**
- ASF (320 x 240)

**Temperature Range:**
- Operation and storage/battery charging: -20°C to 60°C / 0°C to 40°C
LPG/METHANE Leak Detector

LPG / METHANE INSTALLATION CHECKING
TOUCH DEVICE FOR METHANE/LPG INSTALLATION LEAK DETECTION

TECHNICAL SPECIFICATIONS:
Measuring range: Methane GNC from 40 ppm, propane butane from 60 ppm
Backlight: White LED
Sensitivity: 35 ppm
Warm-up time from 30 seconds to 2.5 minutes.
Response time: <10 seconds
Visual indicator with scale of 6 LEDs:
• > 40 ppm CNG > 60 ppm LPG
• > 80 ppm CNG > 120 ppm LPG
• > 160 ppm CNG > 240 ppm LPG
• > 320 ppm CNG > 480 ppm LPG
• > 640 ppm CNG > 960 ppm LPG
• > 1280 ppm CNG > 1920 ppm LPG
Sound and vibration with frequency modulation, depending on the measured gas value
Power supply: Internal rechargeable lithium-ion battery
Battery Charger: 110/220 V - 50/60 Hz (full charge in about 3 hours) Automatic off.

PRODUCT DESCRIPTION:
Device for detecting leaks in LpG / methane installation.
The device is equipped with only one button used for switching on and off.
All indicators are displayed using LEDs.
READY LED indication
BATT LED indication.
Measurement LED indications
Green light sequentially and gradually shows gas level measured by an electronic sensor at the end of a metal arm.

INCLUDED:
• Internal buzzer. Sound signaling emits a sound with frequency modulated depending on the value of the measurement.
• Internal vibrator. Vibration activated with a frequency modulated depending on the value of the measurement.
• Built-in lighting lamp. The white LED light is built into the sensor and allows to light the zone in which the measurement is carried out.

RPM Smart

DESCRIPTION
Multi-function instrument for detection of engine speed and temperature as scantool, can be used together with various analysis tools to carry out “ministerial tests.”
• Frame: ergonomic in ABS with parts in anti-skid shockproof waterproof rubber parts according to standard IP54.
• Weight: 260 grams
• Dimensions: 90 mm x 160 mm x 39 mm
• Operating temperature: - 40° to + 85° C
• Battery: Lithium 7.4 V 1300 mAh, 8 hours of operation with no connection to vehicle
• Current consumption: 150 mA at 8 V
• Microcontroller: ARM 512KB internal flash
• Display: Graph transflective 64x128 pixels for excellent visibility even under poor lighting conditions
• Keypad: simplified membrane with 6 function keys + off key
• Communication: Wireless Bluetooth Class 1
• Detectable protocols: ISO 9141-2, ISO14230-4, SAE J1850-41.6, SAE J1850-10.4, CAN ISO 11898.
• Reprogramming: through USB connection to PC
• ACCESSORIES: Cable for PT1000 temperature probes and piezoelectric sensor and induction and cable for battery connection

The product is suited for several applications, mainly based on OBDII protocol.
Specifically:
Engine rpm and temperature sampling through EOBD protocol and making this data available for emission tests
Vehicle analysis through EOBD protocol
Execution of “scan tool” test according to regulations.
At present, it is the only type-approved instrument in Italy for this purpose.

<table>
<thead>
<tr>
<th>ACCESSORIES</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cable for rpm detection according to the battery principle.</td>
<td>007935900330</td>
</tr>
<tr>
<td>It includes: EOBD connector - cigarette lighter pre-setting for oil temperature probe</td>
<td></td>
</tr>
<tr>
<td>Induction rpm</td>
<td>007935900350</td>
</tr>
</tbody>
</table>
Exhaust Gas Analyzers

SMART GAS
GAS ANALYZER FOR PETROL, LPG AND CNG VEHICLES

- CO reading: volume 0 ÷ 10%, resolution 0.01% by volume
- CO2 reading: volume 0 ÷ 20%, resolution 0.01% by volume
- HC reading: 0 ÷ 10 000 ppm, resolution 1 ppm
- O2 readout: volume CO2 ÷ 0, resolution 0.01% by volume
- Exhaust gas temperature reading: 0 ÷ 200°C, resolution 1°C
- Warm up time: approx. 3 minutes
- Exhaust gas analysis chamber temperature: 75°C
- Integrated printer: 24 columns, thermal, for report printouts
- Multi-function keypad
- LCD 4x 20 backlit with white diodes of high brightness
- Integrated battery that ensures operating time of 4 hours, with a possibility of direct charge from the electrical network
- Power supply from the electrical network 220V – 50 Hz or from the battery 12 V (optional)

CONNECTORS:
- Inputs: electrical network, revolution counter, coolant temperature probe
- Serial port for connecting a cable from the PC
- PS2 Port for a PC keyboard
- Internal Bluetooth Class 1

SERIAL EQUIPMENT:
- Cable for electrical network connection
- Oxygen sensor
- Exhaust gas probe
- CD-Rom with PC software
- Short instruction serving as a guide for installation and starting up of the device
- Cable for serial connection with the PC

FUNCTIONS:
- Analysis of 4 main gases: - CO - CO2 - HC - O2
- Lambda coefficient calculation

SMART SMOKE
SMOKE METER FOR DIESEL VEHICLES

- Smoke opacity meter for diesel vehicles
- Absorption coefficient K(m-1) reading: 0 ÷ 99,9%, resolution 0.01%
- Absorption coefficient K reading (%): 0 ÷ 99,9%, resolution 0.1%
- Exhaust gas analysis chamber temperature: 75°C
- Integrated printer: 24 columns, thermal, for report printouts
- Multi-function keypad
- LCD 4x 20 backlit with white diodes of high brightness
- Integrated battery, ensuring operating time of 4 hours, with a possibility of charging directly from the electrical network
- Power supply from the electrical network 220V – 50 Hz or from the battery 12 V (optional)

CONNECTORS:
- Inputs: electrical network, revolution counter, coolant temperature probe
- Serial port for connecting a cable from the PC
- PS2 Port for a PC keyboard
- Internal Bluetooth Class 1

SERIAL EQUIPMENT:
- Cable for electrical network connection
- Oxygen sensor
- Exhaust gas probe
- CD-Rom with PC software
- Short instruction serving as a guide for installation and starting up of the device
- Cable for serial connection with the PC

FUNCTIONS:
- Analysis of 4 main gases: - CO - CO2 - HC - O2
- Lambda coefficient calculation

LOGIC GAS
GAS ANALYZER FOR PETROL, LPG AND CNG VEHICLES

- Gas analyzer for petrol, lpg and cng vehicles
- CO reading: volume 0 ÷ 10%, resolution 0.01% by volume
- CO2 reading: volume CO2 ÷ 0, resolution 0.01% by volume
- HC reading: 0 ÷ 10 000 ppm, resolution 1 ppm
- O2 reading: volume CO2 ÷ 0, resolution 0.01% by volume
- Exhaust gas temperature reading: 0 ÷ 200°C, resolution 1°C
- Warm up time: approx. 3 minutes
- Exhaust gas analysis chamber temperature: 75°C
- Integrated printer: 24 columns, thermal, for report printouts
- Multi-function keypad
- LCD 4x 20 backlit with white diodes of high brightness
- Integrated battery, ensuring operating time of 4 hours, with a possibility of charging directly from the electrical network
- Power supply from the electrical network 220V – 50 Hz or from the battery 12 V (optional)

CONNECTORS:
- Inputs: electrical network, revolution counter, coolant temperature probe
- Serial port for connecting a cable from the PC
- PS2 Port for a PC keyboard
- Supply voltage connector 12V
- Internal Bluetooth Class 1

SERIAL EQUIPMENT:
- Cable for electrical network connection
- Oxygen sensor
- Exhaust gas probe
- CD-Rom with PC software
- Short instruction serving as a guide for installation and starting up of the device
- Cable for serial connection with the PC

FUNCTIONS:
- Analysis of 4 main gases: - CO - CO2 - HC - O2
- Lambda coefficient calculation

LOGIC SMOKE
SMOKE METER FOR DIESEL VEHICLES

- Smoke opacity meter for diesel vehicles
- Absorption coefficient K(m-1) reading: 0 ÷ 99,9%, resolution 0.01%
- Absorption coefficient K reading (%): 0 ÷ 99,9%, resolution 0.1%
- Exhaust gas temperature reading: 0 ÷ 200°C, resolution 1°C
- Warm up time: approx. 3 minutes
- Exhaust gas analysis chamber temperature: 75°C
- Integrated battery, ensuring operating time of 4 hours, with a possibility of charging directly from the electrical network
- Power supply from the electrical network 220V – 50 Hz or from the battery 12 V (optional)

CONNECTORS:
- Inputs: electrical network, revolution counter, coolant temperature probe
- Serial port for connecting a cable from the PC
- PS2 Port for a PC keyboard
- Cable for serial connection with the PC

FUNCTIONS:
- Analysis of 4 main gases: - CO - CO2 - HC - O2
- Lambda coefficient calculation
**Diesel Bench DS2i**

**CHARACTERISTICS**

**Spray Chamber**
Illuminated (high intensity LED) and fumes-clear spray chamber for clear view of injected pattern. You can virtually see the multiple injections.
Diagnosis of: NOP, incorrect spraying, leaky or seized injectors

**Dual Function System**

**Test System:**
Performs Only testing of the injector using Calibration oil.

**Test and Clean System:**
Performs testing of the injector using Calibration oil and also internal flushing and cleaning of the injector using a specially formulated treatment detergent. (optional)

**Injector Clamp**
Ergonomic, robust, fast & simple clamping with self positioning function

**FEATURES**
- Piezo & Solenoid actuation (0-250 Volts / 0-35A)
- Boost Voltage up to 250V for New Piezo systems
- High Voltage Peak Amp, Battery Peak Amp and Battery Hold Amp control fully programmable
- Fully programmable charging and discharging Piezo signal profiles
- Up to 2450bar system (optional)
- Multiple Injections (programmable)
- Variable & Customizable Test Plans (independent for every injector)
- Manufacturer / User Injector Database (upgradeable)
- Measurement of Injection response time*(IRTS-optional)
- Injector Coding option (CRU.2 prepared for future upgrade)
- Clear protective test bench cover
- Spill free quick-connectors for Discharge and Return hoses
- Piezo Injector Individual Return regulators
- Glass level indicators
- MACC – Advanced chemical treatment and flushing of the injector
- Ergonomic and dynamic design
- Short testing time required
- Injector protection function
- PCB protection circuit
- Quality & robust

---

ENG, NED, FIN, FRE, GER, GRE, HU, IT, POL, POR, SLO, SL, SPA
Diesel Bench
CRU.2i

COMPACT DEVICE FOR COMPLEX DIESEL INJECTORS MAINTENANCE
- SUPPORTS ELECTROMAGNETIC AND PIEZO INJECTORS
- measurement of injector opening delay after energizing
- injector coil inductance measurement (optional)
- the device meets the safety standards
- clear presentation of test results
- customer archiving
- LCD touch screen
- possibility of extension
- user-friendly interface
- built-in control panel
- operating pressure up to 2200 bar
- programmable component doses (up to 9)
- fully automatic
- variable and editable parameters of injectors for passenger cars included
- database with extension possibilities
- built-in 2-channel oscilloscope

ADVANTAGES:
- special chamber with LED backlight, enabling leak test and injector spraying monitoring
- measuring cylinders for monitoring of injectors output and flow, automatic emptying after the testing procedure is completed
- user-friendly control panel that allows for a selection of a manual or automatic mode and a language change, with the possibility of updates
- ultrasonic washer efficiently removing paraffin and carbon deposit residues
- possibility of purchasing of truck cars adapters (optional)
- adapter for testing of unit pump injectors and PLD pumps (optional)
- special mounting for all types of injectors
- weight measurement of injector doses through mass flow-meter
- accurate and repeatable electronic measurement of injection doses and flows (the only device on the market that allows for measurement of fractional doses)
- test printout possibility

ULTRASONIC CLEANING
(CLEANER INCLUDED IN THE PRICE)
Ultrasonic baths of the new generation provide optimum cleaning of all types of deposits, varnishes and resins inside injectors or other engine parts. The device is equipped with the latest technologies, such as the degasification function, which prepares an injector for cleaning, and the washing function (33-40kHz) that boosts the power of ultrasonic waves passing through the injector.

INCLUDED:
- CRU 2i bench
- SET OF FLUIDS (TESTING, CLEANING, WASHER CLEANING)
- ultrasonic washer
- database
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>CRU.2i</th>
<th>DS2i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard options available</td>
<td>✔</td>
</tr>
<tr>
<td>Injector Spray Nozzle Test</td>
<td>✔</td>
</tr>
<tr>
<td>Fuel Injection Test Volume</td>
<td>✔</td>
</tr>
<tr>
<td>Return Fuel Volume Test</td>
<td>✔</td>
</tr>
<tr>
<td>Chemical cleaning and regeneration of all type of injectors</td>
<td>✔ (ZUZ21)</td>
</tr>
<tr>
<td>Support of piezo electric and electromagnetic injectors</td>
<td>✔</td>
</tr>
<tr>
<td>PIR - Piezo Injector Return regulator</td>
<td>✔</td>
</tr>
<tr>
<td>Full Bosch, Delphi, Denso and Siemens CR support</td>
<td>✔</td>
</tr>
<tr>
<td>Programmable injector voltage supply (in1Vsteps)</td>
<td>1-150→</td>
</tr>
<tr>
<td>Programmable intensity for the full-opening function (in 0, 1 Asteps)</td>
<td>1-30→</td>
</tr>
<tr>
<td>Support of the EUICummins, CAT, Detroit Diesel, John Deere injectors</td>
<td>✔</td>
</tr>
<tr>
<td>Support of the EUIScania, Volvo, Iveco, VW injectors</td>
<td>✔</td>
</tr>
<tr>
<td>Support of the EUP Mercedes Actros, Atego, Mack injectors</td>
<td>✔</td>
</tr>
<tr>
<td>Transparent protective cover</td>
<td>✔</td>
</tr>
<tr>
<td>Digital high pressure indicator</td>
<td>✔</td>
</tr>
<tr>
<td>Electronic pump control and regulation</td>
<td>✔</td>
</tr>
<tr>
<td>Vacuum extraction of fuel vapour</td>
<td>✔</td>
</tr>
<tr>
<td>Filtered fuel vapour transfer out of the device</td>
<td>✔</td>
</tr>
<tr>
<td>Automatic/Semi-automatic/Manual test mode</td>
<td>✔</td>
</tr>
<tr>
<td>User’s own settings module</td>
<td>✔</td>
</tr>
<tr>
<td>Programmable mode of multiple injections (initial principal/secondary injection)</td>
<td>✔</td>
</tr>
<tr>
<td>Multiple injection programming (upto9injections)</td>
<td>✔</td>
</tr>
<tr>
<td>Step-by-step instructions (on LCD)</td>
<td>✔</td>
</tr>
<tr>
<td>Interface [HMI] /Linux OS</td>
<td>8.4&quot; Touch LCD TFT</td>
</tr>
<tr>
<td>Possibility of software extension/upgrade</td>
<td>✔</td>
</tr>
<tr>
<td>Automatic emptying of measuring cylinders</td>
<td>✔</td>
</tr>
<tr>
<td>Test of injector electrical efficiency and resistance</td>
<td>✔</td>
</tr>
<tr>
<td>Electric test of electromagnetic and piezo electric injectors</td>
<td>✔</td>
</tr>
<tr>
<td>Operating pressure [Bar/1Bar=10Kpa]</td>
<td>0-2200</td>
</tr>
<tr>
<td>Automatic calibration of pressure for the tested system</td>
<td>✔</td>
</tr>
<tr>
<td>Frequency of injector’s energizing</td>
<td>10-10,000</td>
</tr>
<tr>
<td>Duration time of a control signal [μs]</td>
<td>100-50,000/10</td>
</tr>
<tr>
<td>Duration of the tests</td>
<td>1-nieks.</td>
</tr>
<tr>
<td>Dynamic/static injector tests</td>
<td>✔</td>
</tr>
<tr>
<td>Volume measurement of glass measuring cylinders [ml with 2% tolerance]</td>
<td>✔</td>
</tr>
<tr>
<td>Dynamic quantitative measurement (resolution 0.2mg/precision 0.2%)</td>
<td>✔</td>
</tr>
<tr>
<td>Diagnostics: inadequate performance/incorrect spraying/electrical failure</td>
<td>✔</td>
</tr>
<tr>
<td>Diagnostic software of all-closed injectors</td>
<td>✔</td>
</tr>
<tr>
<td>Adapters CRI/DEC/CRIN (all manufacturers*)</td>
<td>✔</td>
</tr>
<tr>
<td>Adapters EU/EUP/UI/UP (all manufacturers*)</td>
<td>✔</td>
</tr>
<tr>
<td>WasherUB15e (automatic, modulated frequency 31/42kHz/degas)</td>
<td>✔</td>
</tr>
<tr>
<td>WasherUB15s (automatic, frequency 42kHz /heating)</td>
<td>✔</td>
</tr>
<tr>
<td>Compressed air input [BAR]</td>
<td>6-10</td>
</tr>
<tr>
<td>Medium/Maximum requirement [L/min]</td>
<td>500/1200</td>
</tr>
<tr>
<td>Testing liquid/cleaning agent vessel [L]</td>
<td>4/2.5</td>
</tr>
<tr>
<td>Testing liquid/cleaning agent filtering [μm]</td>
<td>2/8</td>
</tr>
<tr>
<td>HP connection tightening strength [Nm]</td>
<td>26-32</td>
</tr>
<tr>
<td>Pressure in flexible hoses (acceptable/operating) [BAR]</td>
<td>4000/2500</td>
</tr>
<tr>
<td>Adjustable injector clamp [8-45mm]</td>
<td>✔</td>
</tr>
<tr>
<td>M12 and M14 injector HP connections</td>
<td>✔</td>
</tr>
<tr>
<td>Operating voltage [V] / power consumption [W]</td>
<td>100-250/370</td>
</tr>
<tr>
<td>Power supply frequency [Hz]</td>
<td>50/60</td>
</tr>
<tr>
<td>Emergency stop button within an easy reach</td>
<td>✔</td>
</tr>
<tr>
<td>Packaging dimensions WxDxH [mm]/weight [kg]</td>
<td>605/702/925/84</td>
</tr>
<tr>
<td>Language choice</td>
<td>✔</td>
</tr>
</tbody>
</table>
Accessories
Injector unit adapter for DS2i and CRU.2i benches

PIEZO
SOLENOID
DUAL - SOLENOID
Adapter for servicing of unit pump injectors for the UA2i device, used in tractors, vans, passenger cars, boats, trains, industrial machinery.

DEVICE CHARACTERISTICS:
• Pneumatic stimulation of unit pump injectors EU/I/EU/P
• Spray test EU/UI
• Injected fuel volume test
• Fast mounting and dismounting of the analyzed unit pump injectors
• Ultrasonic cleaning
• Chemical cleaning and rinsing
• User-friendly interface
• Possibility to change or overwrite the testing programmes by the user
• Possibility to extend the device to serve all types of unit pump injectors EU/HEUI
• Control valve and a low liquid pressure gauge
• Possibility to extend with HEUI

APPLICATIONS (ADAPTERS FOR INDIVIDUAL BRANDS):
• IVECO
• VOLVO/JOHN DEERE 007935095280
• SCANIA/YANMAR 007935095270
• BOSCH VW TDI CKEKOWY 007935095290
• BOSCH VW TDI PIEZOELEKTRYCZNY 007935095300
• DETROIT DIESEL
• MERCEDES ACTROS/ATEGO (unit pumps) - 007935095330/007935095340
• CATERPILLAR
• NAVISTAR
• CUMMINS CELECT 007935095320
• MACK E-TECH 007935095350

CONTROL PANEL
• Smart software simulates camshaft cams to ensure realistic measurements
• Automatic or user-defined synchronization with camshaft phasing and unit pump injector opening times
• Simulation programs for a number of injectors and the possibility of their programming
• Step-by-step instructions on a LCD screen
• Possibility to energize the unit pump injector with a current or a voltage signal
• Resistance test of a unit pump injector

MOUNTING HOLDER
• Easy DS2 connection
• Easy and fast mounting of all unit pump injectors U/EU/HEUI/UP
• Adapters for various types of unit pump injectors
• Fully regulated mounting holder for all unit pump injector sizes
• Mounting holder can be tilted by 80 degrees for an independent DS2 device operation
Accessories for DS2I AND CRU.2I benches

The MM offer also includes various accessories such as adapters for truck injectors, fluids and return pressure regulator for piezo injectors.

**PIMK-100**
OVERFLOW MEASUREMENT KIT FOR PIEZO INJECTORS

The MM offer includes ultrasonic washer, extremely useful in the daily work of each workshop, ideal for cleaning precision mechanisms and injectors, and much more.

- Device for measuring the return in piezo injectors
- Transparent sight glass for viewing the color of the fuel for possible contamination
- Replaceable gauges for various measurements
- Fits most injectors on the market

**APPLICATION:**
Bosch and VDO/SIEMENS injectors: 1 to +15 bar
DELPHI injectors: 1 to +3 Bar

**INCLUDED:**
- 1 device, conical adapter, quick fit connectors
- One pressure relief valve
- 63 gauge, measuring range -1 to +15 bar
- 63 gauge, measuring range -1 to +3 bar
- CZ01 set of tubes for VDO / SIEMENS injectors
- CZ02 cable kit for BOSCH injectors
- CZ03 set

**ULTRASONIC WASHER**
- Power Supply Voltage (Vac) 230 V
- Frequency (Hz) 50/60
- Ultrasound frequency (kHz) 33-40 (Sweep)
- S 15 Power (W) 35
- Total Power S 15 H (W) 95
- Effective ultrasound power (W) 35
- Maximum ultrasound power* (W) 280
- Heater power (W) 60
- Dimensions WL/H (mm) 175/180/212
- Dimensions of the internal tank WL/H (mm) 151/137/100
- Capacity in liters 1.75
- Internal basket dimensions WL/H (mm) 112/103/55
- Weight (kg) 2.1
- Tank material - stainless steel
- Case Material - Stainless Steel
- CE Richtlinie 89/336 EEC yes
- CE Richtlinie 73/23 EEC yes
- Class IP 23
Gasoline bench GS2 – GS4

The efficient and cost-effective way to bench test and service every fuel Injector

Service and repair:
- Increased exhaust emissions
- Reduced engine performance (Power, Torque)
- Increased fuel consumption
- Poor driveability situations
- Direct injection systems failure (Leaks, Pressure drop)
- Rough idle and periodic stall of the engine
- Conditions that lead to long-term catalytic converter damage
- Extended engine start-up
- MIL - check engine light-up

Systems:
- G-DI / FSI / HPI / DISI / SIDI (Direct injection),
- MPFI / SPFI,
- L-JETRONIC (Multi-port fuel injection) / CSFI,
- CPFI (Central port injection) / TBI / CFI (Throttle body injection),
- K-JETRONIC (Continuous Injection), MARINES, E-TEC / FICHT
- Other: Motorcycles, LPG, Alternative fuels

Features:
- G-DI Capable
- Spray test
- Volume test
- Automatic function
- Fully customizable
- Engine Simulation Tests
- Automatic Drain of tubes
- Injector Protection circuit
- Test plans – Repeatability
- Reverse flush
- Adaptability
- On-display guide
- Fast mounting
- Ease of use
- Quality and robust
- Language Localization
- Upgradeable

ENG, NED, FIN, FRE, GER, GRE, HU, IT, POL, POR, SLO, SL, SPA
## Gasoline tech series

<table>
<thead>
<tr>
<th>Feature</th>
<th>GS4</th>
<th>GS2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Injector Capability / Signal Output capability</td>
<td>4/4</td>
<td>4/4</td>
</tr>
<tr>
<td>Testing and cleaning Direct injection FSI, HPI, GDI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Testing and cleaning MPFI, SPFI, L-JETRONIC, TBI, CFI, CPFI</td>
<td>●/○</td>
<td>●/○</td>
</tr>
<tr>
<td>Testing and cleaning MOTO / MARINE, LPG, ALTERNATIVE FUELS</td>
<td>●/○</td>
<td>●/○</td>
</tr>
<tr>
<td>Operating Injector Pressure (Bar / 1Bar = 10 KPa)</td>
<td>0-10</td>
<td>0-10</td>
</tr>
<tr>
<td>Automatic adjustment of Pressure to system tested</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>Saturated Switch driver automatically selected</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Peak &amp; Hold driver automatically selected</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Piezo Injector driver circuit (0-250 VDC / 0-35 A)</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>High intensity Led lighting for every spray chamber</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Automatic functions and operations</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>Manual functions (semi-auto)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>User-Programmable Test Plans</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>Spray Pattern &amp; Atomization view</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>Step-by-step instructions (LCD messages)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Future upgradeable</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>Automatic draining of volumetric tubes</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>Acceleration/ Deceleration mode simulation test</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Rich/ Lean mode simulation test</td>
<td>●</td>
<td>x</td>
</tr>
<tr>
<td>User Programmable Multiple-Injections capability (# of injections)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Manufacturer / User Injector Database (Test Plans)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Printer / USB output of results / report</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Human Machine Interface (Display)</td>
<td>LCD / 2x20 LETTER</td>
<td>LCD / 2x16 LETTER</td>
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<tr>
<td>Customer and injector filing</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Electric coil condition and (O) Ohm testing</td>
<td>●</td>
<td>x</td>
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<tr>
<td>Electrical Inductance test (µH)</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Electrical Capacitance test (µF)</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Filtered Fluid supply system</td>
<td>10um</td>
<td>10um</td>
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<tr>
<td>Injector operating frequency</td>
<td>500-16,000</td>
<td>500-9000</td>
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<tr>
<td>Injector pulse width (µs)</td>
<td>900-100000</td>
<td>900-80000</td>
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<tr>
<td>Injector pulses option</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Dynamic and Static tests for all injector types</td>
<td>●</td>
<td>●</td>
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<tr>
<td>Volumetric measurement in graduated glass tubes (ml / tol. / accuracy)</td>
<td>130 / 2 / 1</td>
<td>130 / 2 / 1</td>
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<tr>
<td>Language localization</td>
<td>●</td>
<td>●</td>
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<tr>
<td>On-Display Guide (step-by-step instructions)</td>
<td>●</td>
<td>x</td>
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<tr>
<td>Industrial PC Operation Software</td>
<td>x</td>
<td>x</td>
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<tr>
<td>Spill-free fluid quick connectors</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Standard Adapters Kit (top feed injectors adapters)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>TBI adapters Kit (throttle body and side feed injectors adapters kit)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Exclusive Adapters (All top &amp; side feed injectors easy adapters kit)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Direct Injector High Pressure Standard Size Adapters</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Direct Injector High Pressure Long and Non-Standard Adapters (optional list)</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>UB15e Ultrasonic bath exclusive (Sweep technology 31-42kHz, Degas, Heat control)</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>UB15s Ultrasonic bath Standard (42Khz, Heat control)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Input power (Volts) / Power Consumption (Watt)</td>
<td>100-250 / 200</td>
<td>100-250 / 200</td>
</tr>
<tr>
<td>Operating Frequency (Hz)</td>
<td>50-60</td>
<td>50-60</td>
</tr>
<tr>
<td>Packaged Dimensions WxDxH (cm) / Weight (Kg)</td>
<td>51 X 44 X 67 / 42</td>
<td>60 X 44 X 55 / 37</td>
</tr>
<tr>
<td>Consumable Fluids (testing &amp; cleaning)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Injector Accessories Kit (screen filters, caps, o-rings, etc)</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Portable Stand with cabinet</td>
<td>○</td>
<td>○</td>
</tr>
</tbody>
</table>
Diesel & Gasoline Engine Treatment Unit
ES-20

Diagnostic & Service Tools

Modern engine servicing, calls for time-saving, easy-to-use and cost-effective solutions.

Systems:
Common-Rail and conventional Diesel
Gasoline Direct Injection (G-DI, FSI, HPI)
Conventional Fuel Injection (MPFI / TBI / CIS)
LPG / CNG
Carburated

Features:
– Dual-Tank system (ES-20)
– Automatic Pressure adjustment
– Adaptability to all makes and models
– Intake manifold cleaning with adapter unit (optional)
– Locomotive application model available that handles 1200 L/H (optional)
– Industrial application model available that handles 600 L/H (optional)
– Automatic /manual functions
– On-Display guide
– Language localization
– Upgradeable
– User-friendly
– Portable & Lightweight
– Quality & robust

Benefits:
– Exhaust emissions reduction more than 70%
– Maximum restoration of engine’s performance
– Reduction of fuel consumption
– Common-Rail system cleaning
– High Pressure pump’s conditioning
– De-carbonization of the combustion chamber
– De-carbonization of intake manifold and throttle body
– Optimum fuel combustion
– Blocked valves and piston rings release
– De-carbonization of the catalytic converter
– Improved idle-speed stability
– Fading of engine knocking
– Prevention of long term expensive repairs

007935095380
Diesel & Gasoline Engine Treatment Unit
ES-20

The ENGINE TECH detergent activates the inert carbon molecules, resins, dust varnish and gums that accumulate inside the engine components, and burns them with the combustion process.

- Safe for the user
- Harmless to all engine parts
- Non-Flammable
- Non-Carcinogenic product and friendly to the environment
- Efficient to all types of engines.

mororcycle
passenger cars
light duty trucks
heavy duty trucks
buses
marines
agriculture
industrial equipment
trains

285 ml 007935095490 25 l 007935095500
Diesel – tools

- Kit for grinding injector sockets
  - Code: 007950010100

- Common rail pumps tool kit
  - Code: 007950010110

- Magnifier 10 x with backlight
  - Code: 007950010120

- Tool Kit for CP1 pumps
  - Code: 007950010130

- Tool Kit for CP3 pumps
  - Code: 007950010140

- Magnetic forceps
  - Code: 007950010150

- Steel brush for cleaning the holes
  - Code: 007950010160

- Universal gripper for removal of injectors 11, U2, 13*9mm
  - Code: 007950010170

- Universal gripper to remove the injectors 15, 7, 18 and 22mm
  - Code: 007950010180

- Attachment for removal of Delphi injectors 21mm
  - Code: 007950010190

- Set of 6 hexagonal keys for 1/2” spanner
  - Code: 007950010320

- Punch for ends size 17x1 mm
  - Code: 007950010200

- A set of 110 distances from 8.40 mm to 8.50 mm
  - Code: 007950010510

- A set of 240 washers, thickness 5.5 mm, diameter from 1.2 to 1.7 mm
  - Code: 007950010520

- A set of 110 sealants / thickness from 1.2 to 1.3 mm
  - Code: 007950010530

- A set of 110 hexagonal sealants, thickness FROM 1 to 1.1 mm
  - Code: 007950010540

- Complete repair kit for injectors CRI+Crin
  - Code: 007950010210

- Complete repair kit for injectors CRI + Crin
  - Code: 007950010220

- A complete repair kit for injectors CRI + Crin
  - Code: 007950010230

- Storage container for injectors
  - Code: 007950010240

- Vice to remove the injectors and injector units
  - Code: 007950010250

- The load cell to measure force
  - Code: 007950010260

- Clamps for injector units
  - Code: 007950010270

- Vice for rotary pumps
  - Code: 007950010280

- Set of blind glow plugs for compression testing
  - Code: 007950010290

- Compression measurement device
  - Code: 007950010300

- The device for adjusting injector washers with electronic readout
  - Code: 007950010310

- Device for removing felt seals
  - Code: 007950010330

- Test socket for testing the bead surface
  - Code: 007950010340

- Set of 50 balls, size 1.34 mm
  - Code: 007950010350
Diesel – tools

Set of 50 original Bosch balls
007950010360

A set of 19 different seals (50 pcs each) + 2 overflow connectors
007950010370

Polishing paste for ball socket
007950010380

Special material for polishing
007950010390

Ultrasonic cleaner 14 LT
007950010400

Washer basket for injectors cleaning
007950010410

Washer basket for precision parts
007950010420

Set of seals for the injector body
007950010430

A set of 5 sizes of compensation washers (1.5-11-10-9-7.5 mm) and three spacers (0.05-0.1-0.2 mm)
007950010440

Set the compensation washers diameter 9.8 mm, thickness from 1 to 1.95 mm every 0.01 mm
007950010450

Set of compensating washers diameter 11.4 mm thickness from 0.8 to 1.95 mm every 0.01 mm
007950010460

A set of compensating washers diameter 7.35 mm thickness from 0.8 to 1.95 mm every 0.01 mm
007950010470

A set of compensating washers thickness 9.4 mm diameter from 0.8 to 1.95 mm every 0.01 mm
007950010480

A set of compensating washers thickness 8.5 mm diameter from 0.8 to 1.95 mm every 0.01 mm
007950010490

A set of compensating washers diameter 6.85 mm thickness from 1 to 1.95 mm every 0.01 mm
007950010500

A set of 110 valves; thickness from 8.4 mm to 8.5 mm every 0.01 mm
007950010510

A set of shims diameter of 5.5 mm thickness from 1.2 to 1.7 mm every 0.02 mm
007950010520

A set of 110 setting seals, thickness of 1.2 mm to 1.3 mm every 0.01 mm
007950010530

A set of 110 valves; thickness from 8.4 mm to 8.5 mm every 0.01 mm
007950010540

A set of 240 adjustment shims diameter 5.5 mm, thickness from 1.2 to 1.7 mm every 0.01 mm
007950010550

A set of 110 valves; thickness from 8.4 mm to 8.5 mm every 0.01 mm
007950010560

A set of 110 adjustment shims, diameter of 4.2 mm, thickness from 1.2 to 1.7 mm every 0.01 mm
007950010570

A set of 240 adjustment shims, diameter 5.3 mm, internal hole diameter 2.4 mm, thickness from 1.2 to 1.7 mm every 0.02 mm
007950010580

A set of 240 adjustment shims, diameter 7.35 mm, internal hole diameter 2.4 mm, thickness from 1.2 to 1.7 mm every 0.02 mm
007950010590

A set of 19 different seals (50 pcs each) + 2 overflow connectors
007950010600

Set of 20 seals and 50 balls for injectors
007950010610

Manual test pump
007950010620

Special vice for removing common rail injectors
007950010630

Cap for removing 7 mm Sprinter tip
007950010640

Tester to activate injectors
007950010740
AUTOMATIC DIAGNOSTIC AND A/C FILLING STATION
R1234a AGENT

Clima Tech TOP HFO

CLIMA TECH TOP HFO
Device designed for diagnostics and maintenance of air-conditioning installations, using the new GAS HFO-R1234a. Equipped with fully automatic functions.

Latest device to support the automotive air conditioning system designed for installations that use the new gas R1234a. The device meets the provisions of European and American safety regulations, and the provisions of SAE (Society of Automotive Engineers). The functions of coolant recycling and filling have been improved to ensure maximum precision and very easy management of ordinary and extraordinary maintenance. Performance of ventilation system ensures the best heat dissipation, and putting the tachometric fan on the bottom of the device also allows you to remove any leakage of gas and send it out through the ventilation system.

Two modes of recovery of the refrigerant, developed in accordance with SAE and to facilitate the work of the person operating the device, satisfy the requirements of work time for workshops: ECO mode also guarantees a maximum gas recovery, while the SPEED mode provides the perfect combination of speed and accuracy.

The device features three oil injection three modes: bell with quick-coupling, leak-proof disposable container intended for FAG oil and a new mode to the hybrid cars that use POE oil. Innovative alarms indicate malfunction of equipment, vehicle installation and maintenance service.

DETAILED SPECIFICATIONS
Refrigerant: R1234a
Built-in database
Coolant recovery speed: 500 g / min.
Nominal pressure: 20 bar
Tank Capacity: 12.4 l
The accuracy of refrigerant weight: + / - 1g
The accuracy of oil weight: + / - 1 g

ACCESSORIES

007935090760 CYLINDER HEATING BELT 12.4 L
007950015045 COVER FOR CLIMA TECH STATION
007950024130 SERVICE KIT (FILTER + OIL) FOR AIR CHECK / CLIMA TECH PLUS TOP STATION
007950024060 FLUSHER KIT FOR AIR CONDITIONING SYSTEMS FOR AIR CHECK / CLIMA TECH STATION, NITROGEN KIT
CLIMA TECH TOP HFO FGA

Device designed for diagnostics and maintenance of air-conditioning installations, using the new GAS HFO-R1234a.

Equipped with fully automatic functions. Approved by FGA (Fiat Group Automobile) for Fiat, Alfa Romeo, Lancia, Abarth and Fiat Professional.

Latest device to support the automotive air conditioning system designed for installations that use the new gas R1234a. The device meets the provisions of European and American safety regulations, and the provisions of SAE (Society of Automotive Engineers).

The functions of coolant recycling and filling have been improved to ensure maximum precision and very easy management of ordinary and extraordinary maintenance.

Performance of ventilation system ensures the best heat dissipation, and putting the tachometric fan on the bottom of the device also allows you to remove any leakage of gas and send it out through the ventilation system.

Two modes of recovery of the refrigerant, developed in accordance with SAE but also to facilitate the work of the person operating the device, satisfy the requirements of work time for workshops: ECO mode also guarantees a maximum gas recovery, while the SPEED mode provides the perfect combination of speed and accuracy.

The device features three oil injection three modes: bell with quick-coupling, leak-proof disposable container intended for PAG oil and a new mode to the hybrid cars that use POE oil.

Innovative alarms indicate malfunction of equipment, vehicle installation and maintenance service. The USB connector allows you to update the database.

DETAILED SPECIFICATIONS
Refrigerant: R1234a
Built-in database
Coolant recovery speed: 500 g / min.
Nominal pressure: 20 bar
Tank Capacity: 12.4 l
The accuracy of refrigerant weight: + / - 1g
The accuracy of oil weight: + / - 1 g

ACCESSORIES
0079500015080
Suggested OPERATING PRESSURE

007950024060
FLUSHING KIT FOR AIR CONDITIONING SYSTEMS FOR AIR CHECK / CLIMA TECH PLUS TOP STATION

0079500015045
COVER FOR CLIMA TECH STATION

007950024130
SERVICE KIT (FILTER + OIL) FOR AIR CHECK / CLIMA TECH PLUS TOP STATION

007935090760
CYLINDER HEATING BELT 12.4 L

007935090780
COVER FOR CLIMA TECH STATION
AUTOMATIC DIAGNOSTIC AND A/C FILLING STATION
Available also for Fiat, Alfa Romeo, Lancia, Fiat Professional, Abarth, Jeep

Clima Tech TOP NEXT

CLIMA TECH TOP NEXT

It is a fully automatic Magneti Marelli device, designed for diagnostics and maintenance of air-conditioning installations. The device facilitates service interventions, which can be carried out in two ways. Manual function:

- the operator performs coolant recovery, its emptying, oil injection, filling and rinsing. Automatic function: operations are carried out automatically by choosing of a car make from the database, or automatically, in a programmable cycle (without the operator’s assistance, by the use of various function settings entered by the user)

THE DEVICE IS EQUIPPED WITH:

- A programmer, and high-class electronic solenoid valve control system
- Safety valves
- Pressure Sensors
- The pressure sensor in cylinder (pressure measurement with alarm)
- Additional cooling agent condenser (with an electric fan)
- Two analog pressure gauges
- Printer
- Built-in database with a possibility to select a vehicle and to include additional vehicles
- Electronic scales for oil, agent and contrast
- Service hoses 2.5 m long
- Easy to read LCD display
- Four containers for recovered oil, fresh oil, contrast and oil for hybrid cars
- Possible database update through a standard memory card or USB
- Special ringing attachment for the system (optional)
- Possibility of connecting the nitrogen and measurement with printout by the station pressure sensor
- Possibility to convert to R1234a agent

CLIMA TECH TOP NEXT FUNCTIONS

- recovery of cooling agent contained in the A/C
- cleansing cooling agent of mechanical impurities
- dewatering of the cooling agent through filtering
- separation of the cooling agent from oil contained in the system
- recovered cooling agent volume measurement
- test for the presence of residual cooling agent in the system
- system drainage with a special vacuum pump
- system leak test (vacuum or pressurized with nitrogen gas)
- automatic oil injection in the amount set by the operator, or manual, with a visual inspection
- recovery of cooling agent remaining in the hoses
- possible manual operating mode
- registration of the performed functions in the form of a convenient printout
- possible system rinsing with the use of an agent
- system diagnostics with printout
- agent in / out balance
- Simple and inexpensive service

DETAILED SPECIFICATIONS

- Refrigerant: R134a/-R1234a
- Electronic refrigerant scales:
  - accuracy +/- 10g
- Electronic scales of oil / UV Accuracy +/ -1 g
- Electronic vacuum gauge: Kl-1-O
- Low pressure / high pressure gauges: Kl. 1.6
- Internal tank capacity: 12/41
- Max. qty of R134a/-234YF agent: 10 kg
- Compressor capacity: 14 cc
- Pump capacity: 6 m3/ h
- 100 / min Final vacuum level: 5 Pa /-0-05 mbar
- Dimensions: 1222x653x610
- Weight: 99 Kg
- Filters complex molecular sieve
- Fine mesh strainer
- Thermal Printer
- nitrogen connector (max 15 bar)

ACCESSORIES

- 007935010670 CYLINDER HEATING BELT 12.4 L
- 007935010770 CYLINDER HEATING BELT 12.4 L
- 00795001500 DATABASE UPGRADE - MEMORY CARD
- 00795001501 DATABASE UPGRADE - MEMORY CARD
- 007950021360 COVER FOR CLIMA TECH TOP STATION
- 00795001504 COVER FOR CLIMA TECH STATION
- 007950021430 SERVICE KIT (FILTER + OIL)
- 007950021430 SERVICE KIT (FILTER + OIL)
- 007950021440 SERVICE KIT (FILTER + OIL) FOR AIR CHECK / CLIMA TECH PLUS TOP STATION
- 007950021440 SERVICE KIT (FILTER + OIL) FOR AIR CHECK / CLIMA TECH PLUS TOP STATION
- 007950024060 FLUSHING KIT FOR AIR CONDITIONING SYSTEMS FOR AIR CHECK / CLIMA TECH PLUS STATION, NITROGEN KIT
- 007935010670 NITROGEN CONNECTOR
CLIMA TECH PLUS NEXT
It is a fully automatic Magneti Marelli device, designed for diagnosing and maintenance of air-conditioning installations. The device facilitates service interventions, which can be carried out in two ways. Manual function: the operator performs coolant recovery, its emptying, oil injection, filling... Automatic function: operations are carried out automatically by choosing of a car make code from the database, or automatically, in a programmable cycle (without the operator’s assistance, by the use of various function settings entered by the user) Extensive device software is able to lead the operator through successive cycles. The database facilitates the operator’s work and speeds up the air conditioning system service.

THE DEVICE IS EQUIPPED WITH:
- A programmer, and high-class electronic solenoid valve control system
- Safety valves
- Pressure Sensors
- Additional cooling agent condenser (with an electric fan)
- Three analog gauges
- Two manual valves
- Three containers for fresh oil, used oil and contrast
- Printer (optional)
- Service hoses 2.5 m long
- A rich database in a book form
- Easy to read LCD display
- additional pressure gauge indicating the pressure in the inner cylinder
- Diagnosis of the air conditioning in the car (optional)
- Integrated, electronic database, which allows among others secondary vehicle identification based on the registration number (optional)
- Nitrogen connector
- Connector for rinsing the system

CLIMATECH PLUS NEXT FUNCTIONS
- recovery of cooling agent contained in the A/C
- cleansing cooling agent of mechanical impurities
- dewatering of the cooling agent through filtering
- separation of the cooling agent from oil contained in the system
- recovered cooling agent volume measurement
- test the presence of residual refrigerant in the system
- system drainage using a special vacuum pump
- system leak test (vacuum or pressurized with nitrogen gas)
- automatic or semi automatic oil and contrast injection in the amount set by the operator, or manual, with a visual inspection
- recovery of cooling agent remaining in the hoses
- possible manual operating mode
- possible system rinsing with the use of an agent
- diagnostics system together with printing (option)
- Simple and inexpensive service
- possible manual operating mode

DETAILED SPECIFICATIONS
- Refrigerant: R134a/R1234a
- Electronic refrigerant scales:
  - Accuracy + / - 10 g
- Electronic vacuum gauge: Kl. 2.5
- Dimensions: 1220 x 650 x 610 mm
- Weight: 99 Kg
- Operational capacity: 12.4 l container
-10Kg R134a/R1234a
- Filters with complex molecular sieve
- Mechanical with fine mesh
- Vacuum pump 6 m3/h - 100 l / min
- Maximum vacuum 0.05 mbar
- Hoses 2.5 m
- Thermal Printer (optional)

Filters with complex molecular sieve
- Mechanical with fine mesh
- Vacuum pump 6 m3/h - 100 l / min
- Maximum vacuum 0.05 mbar
- Hoses 2.5 m
- Thermal Printer (optional)
CLIMA TECH HD NEXT

It is a fully automatic Magneti Marelli device, designed for diagnosing and maintenance of air-conditioning installations. The device facilitates service interventions, which can be carried out in two ways. Manual function: the operator performs coolant recovery, its emptying, oil injection, filling.. Automatic function: operations are carried out automatically by choosing of a car make code from the database, or automatically, in a programmable cycle (without the operator’s assistance, by the use of various function settings entered by the user). Extensive device software is able to lead the operator through successive cycles. The database facilitates the operator’s work and speeds up the air conditioning system service.

THE DEVICE IS EQUIPPED WITH:
- A programmer, and high-class electronic solenoid valve control system
- Safety valves
- Pressure Sensors
- Additional cooling agent condenser (with an electric fan)
- Three analog pressure gauges
- Two manual valves
- Three containers for fresh oil, used oil and contrast
- Printer (optional)
- Service hoses 4 m long
- A rich database in a book form
- Easy to read LCD display
- Additional pressure gauge indicating the pressure in the inner cylinder
- Diagnosis of the air conditioning in the car (optional)
- Integrated, electronic database, which allows among others secondary vehicle identification based on the registration number (optional)
- Nitrogen connector
- Connector for rinsing the system

CLIMA Clima Tech HD NEXT FUNCTIONS
- Recovery of cooling agent contained in the A/C
- Cleansing cooling agent of mechanical impurities
- Dewatering of the cooling agent through filtering
- Separation of the cooling agent from oil contained in the system
- Recovered cooling agent volume measurement
- Test the presence of residual refrigerant in the system
- System drainage using a special vacuum pump
- System leak test (vacuum or pressurized with nitrogen gas)
- Automatic or semi automatic oil and contrast injection in the amount set by the operator, or manual, with a visual inspection
- Recovery of cooling agent remaining in the hoses
- Possible manual operating mode
- Possible system rinsing with the use of an agent
- Diagnostics system together with printing (option)
- Simple and inexpensive service
- Possible manual operating mode

DETAILED SPECIFICATIONS
- Refrigerant: R134a/R1234a
- Electronic refrigerant scales:
  - Accuracy + / -10 g
- Electronic vacuum gauge: Kl. 2.5
- Dimensions: 1220x650x610 mm
- Weight: 90 Kg
- Operational Capacity:
  - 27.2 I tank 21 kg R134a/R1234a
- Filters with complex molecular sieve
- Mechanical with fine mesh
- Vacuum pump 13.7 m3 - 226 l/min
- Maximum vacuum 0.05 mbar
- Cables 4m
- Thermal Printer (optional)
CLIMA TECH MOBILE
It is a fully automatic Magneti Marelli device, designed for diagnosing and maintenance of air-conditioning installations. The device facilitates service interventions, which can be carried out in two ways. Manual function: the operator performs coolant recovery, its emptying, oil injection, filling... Automatic function: operations are executed automatically by choosing the code the car from a database or automatically in a programmable cycle (without operator assistance by setting various functions implemented by the operator). Extensive device software is able to lead the operator through successive cycles. The database facilitates the operator's work and speeds up the air conditioning system service.

THE DEVICE IS EQUIPPED WITH:
- A programmer, and high-class electronic solenoid valve control system
- Safety valves
- Pressure Sensors
- Two analog pressure gauges
- Two manual valves
- Three containers for fresh oil, used oil and contrast
- Printer (optional)
- Service hoses 2.5 m long
- Rich database of CAR + TRUCK + Construction and Agricultural Machinery in a book form
- Easy to read LCD display
- Diagnosis of the air conditioning in the car (optional)
- Integrated, electronic database, which allows among others secondary vehicle identification based on the registration number (optional)

CLIMA TECH MOBILE FUNCTIONS
- recovery of cooling agent contained in the A/C
- cleansing cooling agent of mechanical impurities
- dewatering of the cooling agent through filtering
- separation of the cooling agent from oil contained in the system
- recovered cooling agent volume measurement
- test the presence of residual refrigerant in the system
- system drainage using a special vacuum pump
- system leak test
- automatic or semi automatic oil and contrast injection in the amount set by the operator, or manually, with a visual inspection
- recovery of cooling agent remaining in the hoses
- possible manual operating mode
- diagnostics system together with printing (option)
- Simple and inexpensive service

DETAILED SPECIFICATIONS
Refrigerant: R134a
Compressor 300 g / min
- Electronic refrigerant scales:
  - Accuracy + / -10 g
- Electronic vacuum gauge: Kl. 2.5
Dimensions: 900x650x577 mm
Weight: 70 Kg
Operational Capacity: 12.4 l tank 10 kg R134a
- Filters with complex molecular sieve
- Mechanical sieve with fine mesh
The vacuum pump -70 l / min
Maximum vacuum 0.05 mbar
Hoses 2.5 m
Thermal Printer (optional)
DECONTAMINATION DEVICE
Available also for Fiat, Alfa Romeo, Lancia, Fiat Professional, Abarth, Jeep

Ozon Maker

Working with Ozone Maker allows for substantial savings resulting from not having to pay for expensive chemicals, and the costs incurred for its purchase reimburse very quickly. Ozone Maker allows to make a profit as a result of the customers' satisfaction.

The Italian Ministry of Health - Food and Nutrition Institute
Protocol No. 24482 of 31/07/1996.
University of Naples „FEDERICO II”
In Vitro assessments of possible ozone neutralization on pathogenic bacteria. No genetic mutations found.
University of Udine - Institute for Nutritional Sciences Disinfection tests on flat surfaces of the devices suitable for use on meat (salmonella, listeriosis). University of Parma, Institute of Microbiology
Attempt to verify the ability of ozone sterilization of bacterial communities.

OZON MAKER
The device, by ionizing the air, produces unstable allotropes of oxygen, i.e. ozone O3. Ozone, being a very strong oxidant, and removes all impurities accumulated in the cabin. It effectively removes damp that collects mainly on floor coverings and on air conditioning evaporators. It also eliminates unpleasant odors. Depending on the size of vehicle cabin and the degree of its contamination, the device has the ability to select the operating mode and time (5, 10, 15, 30, 60 minutes). In case of buses, it is recommended to use several Ozone Maker devices. Ozone (O3) is in the atmospheric air, where it is formed from oxygen under the influence of UV radiation. Ozone is a gas heavier than air, it is unstable and decomposes quickly. Decomposition accelerates growth of the temperature, humidity and air pollution. In water, ozone decomposes more rapidly than in the air. In the form of gas it is colorless, in thicker layers it is blue. In the liquid state it is intensely dark-blue, and in the solid state it is almost black. Ozone is a very strong oxidizing compound, much stronger than oxygen. It breaks down into oxygen molecules and atomic oxygen. Due to its very strong oxidizing properties is widely used in industry.

TECHNICAL DATA:
Dimensions: 320 x 220 x 95 mm.
Supply voltage: 220/240 V – 50 Hz – 0,15 A – 18 W
Device capacity: 3 l/min.
Ozone production: 0,250 g/h

Thanks to its compact design and long ozone exhaust pipe, removal of contaminants is extremely easy. Placing the pipe tip, ended with a probe, in the desired location in a cabin or in the dust filter's location, does not pose any problems.
- easy to handle
- removes all impurities
- removes damp
- eliminates odors
- easy and environment friendly functioning
- eliminates costs of use and disposal of chemicals.

COOL WEATHER
Magneti Marelli would like to present COOL WEATHER washer, designed specifically for car air conditioning systems. From time to time, metal fillings from a compressor or other solid elements get into the air conditioning system of a vehicle that has gone through an accident. This causes contamination of the air conditioning system, reducing the compressor's efficiency and, most commonly, the compressor seizure. This and many other reasons can cause damage to the compressor. Its exchange only will not be sufficient to make the air conditioning system work properly. The solid parts remaining in the system will return to the compressor, causing the damage again (but this time to the new compressor), expansion valve blockage and/or a clogged dryer filter. It then becomes necessary to clean the contamination of the internal air conditioning system. COOL WEATHER is the device specifically designed for this purpose. With a very efficient pump installed, the device allows for complex washing of the inner surface of the individual elements of the system, and drying of the surface. The device also includes special tips for connection to any element of the air conditioning, a filter and connection cables. The device is equipped with a pressure gauge indicating the current pressure of the cleaning medium. Proch One has the possibility of pressure regulation.

THE KIT INCLUDES:
- clamps for connecting the elements
- removable filter
- the device
- a set of tips

AIR CONDITIONING SYSTEM RINSING DEVICE

COOL WEATHER

THE KIT INCLUDES:
- a set of tips
- the device
- removable filter
- a set of clamps

THE KIT INCLUDES:
- a set of tips
- the device
- removable filter
- a set of clamps

THE KIT INCLUDES:
- a set of tips
- the device
- removable filter
- a set of clamps

THE KIT INCLUDES:
- a set of tips
- the device
- removable filter
- a set of clamps

THE KIT INCLUDES:
- a set of tips
- the device
- removable filter
- a set of clamps
Device for testing clutchless compressors controlled with PWM valve

MM vcomp serves as a direct supply of control valve for all clutchless, directly driven air compressors with an external performance control without having to create a connection to the electrical system of the vehicle. User-friendly format allows significant time savings during the diagnosis of air conditioning systems. Using MM vcomp you can expand your range of diagnoses of air conditioning systems.

TECHNICAL SPECIFICATIONS:

- Power supply: 11-15 V
- Temperature range: -10 to +40 °C
- Storage temperature: -20 to +50 °C
- Current consumption: up to 3 A
- Efficiency of compressor control: 3-100%

Currently supported models:
Denso:
5SER09, 5SE09C, 6SEU14, 6SEU16, 7SEU16, 7SEU17
Sanden:
PXE13, PXE16

Sets of tools for disassembly of compressors and compressor components

Magneti Marelli offers sets of tools to assist in the removal of couplings, seals, bearings and other components of automotive air-conditioning compressors.
**COMPREHENSIVE AIR-CONDITIONING MAINTENANCE ACCESSORIES**

**Presses for cable making**

**HYDRA – KRIMP**
It is a universal, lightweight and handy device for crimping hoses in the air conditioning systems. By the use of Hydra Krimp hydraulic hand pump this operation is performed easily, quickly and precisely. This tool is ideal for use both in a workshop, as well as in the field.

**THE KIT INCLUDES:**
- HYDRAULIC HAND PUMP
- CABLE-CLAMPING JAWS
- HOSE CLAMPS (MATRIX) OF THE SIZES
  6(5/16"), 8 (13/32"), 10 (1/2") i 12 (5/8") MM
  6(5/16")SRB, 8 (13/32")SRB, 10 (1/2")SRB
  AND 12 (5/8")SRB MM
- REDUCTION CLAMPS WITH THE ABOVE MENTIONED DIAMETERS
- CARRYING CASE FOR ALL THE ELEMENTS

**MANUAL PRESS**
It is a universal, lightweight and handy device for crimping hoses in air conditioning systems. Manual crimping of hose ends allows for a proper selection of crimping force. A solid foundation made of hardened steel allows for a convenient permanent mounting of the entire handle. It enables using of an ordinary manual or hydraulic wrench.

**THE KIT INCLUDES:**
- hose clamps (matrix) of the sizes
  6(5/16"), 8 (13/32"), 10 (1/2") i 12 (5/8") mm
- cable-clamping jaws
- reduction clamps with the above diameter
- carrying case for all the elements

**CABLE CUTTING SHEARS**

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430104017340

007950013860

007950025210
COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

Leak detection

ELECTRONIC LEAK DETECTOR WITH A UV LAMP
Allows for a quick leak localization in the system by the use of an electronic probe or a UV lamp.
- 6 sensitivity degrees (15 detection degrees)
- three-color electronic scale indicating the volume of leakage
- detects leaks up to 3 gr/year
- detects all CFC, HCFC, HFC agents
- flexible probe 43cm long
- battery test
- an audible alarm indicating the scale of leakage
- mute function
- UV protective goggles
- very bright UV diode lamp

ELECTRONIC LEAK DETECTOR WITH A UV LAMP
Allows for a quick leak localization in the system by the use of an electronic probe or a UV lamp.
- 6 sensitivity degrees (15 detection degrees)
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- detects all CFC, HCFC, HFC agents
- flexible probe 43cm long
- battery test
- an audible alarm indicating the scale of leakage
- mute function
- UV protective goggles
- very bright UV diode lamp

THE UV LAMP KIT OF MAGNETI MARELLI ENABLES FAST LEAK DETECTION IN CAR AIR-CONDITIONING SYSTEMS

100W UV LAMP
- a UV 50W lamp with a rotating tip
- oil (PAG) with a contrast
- protective goggles
- spray for agent removal

THE KIT INCLUDES
- case
- pressure gauges
- 3 hoses (180m)
- 2 quick couplings

15 BAR PRESSURE REDUCER
# Complex Air-Conditioning Maintenance Accessories

## Leak Detection

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>007950024970</td>
<td>5L Nitrogen Cylinder</td>
</tr>
<tr>
<td>007950024980</td>
<td>1L Nitrogen Cylinder</td>
</tr>
<tr>
<td>430104017091</td>
<td>Set of Pressure Gauges 1/4&quot; 63mm</td>
</tr>
<tr>
<td>007950014300</td>
<td>Digital Pressure Gauges 1/4&quot; (without tubes)</td>
</tr>
<tr>
<td>007950025010</td>
<td>Leak Detector</td>
</tr>
<tr>
<td>007950025190</td>
<td>UV Lamp 50W with Charger and Glasses (internal battery)</td>
</tr>
<tr>
<td>007950024060</td>
<td>Flushing Set for Air Conditioning Systems Station</td>
</tr>
</tbody>
</table>
COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

Leak detection

007950024750  FLUSHING SET FOR AIR CONDITIONING SYSTEMS - MANUAL

007950025000  SET OF FLUSHING TOOLS (SMALL)
007950024740  SET OF TOOLS FOR DEVICE FOR FLUSHING (LARGE)
COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

Thermometers

LASER THERMOMETER - PYROMETER
A pyrometer is a professional device for measuring the temperature of objects that are movable, inaccessible or dangerous to touch. It is equipped with a laser pointer precisely identifying the measured location. It allows for 15 hours of continuous operation. The pyrometer is of high measurement precision up to 0.1°C.

LASER THERMOMETER
• 4-digit backlit LCD display
• temperature range -50 do 500°C (±2°C)
• 9V battery (15 hours of work)
• reaction time 0.5 second
• recurrence ±1% or ±1°C
• automatic turn off after 10 seconds of inactivity
• optical resolution 12:1
• selection of measured location with the use of laser beam
• emissivity 0.95

INFRARED THERMOMETER / PROBE
This handy infrared or puncture probe thermometer allows for direct or indirect temperature measurement. Convenient and easy to use, it enables diagnosing of air-conditioning systems.

TECHNICAL DATA:
• infrared temperature range -55 do 220°C
• probe temperature range -55 do 330°C
• LCD display
• Max/Min memory
• emissivity regulation
• blockade reducing distortions as a result of thermal effect of hands
• probe securing clip

DIGITAL THERMOMETER
• temperature range -50 do 300°C
## COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

### Wires/Quick Couplings

### Repair Kits

### Fluids/O-Rings/Valves

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>007935090650</td>
<td>POLYESTER OIL (POE) ISO 100 1L + UV TRACER</td>
<td>007935090740</td>
<td>POLYESTER OIL (POE) ISO 100 1L</td>
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<tr>
<td>007935090710</td>
<td>PAG OIL ISO46 250 ml</td>
<td>007935090720</td>
<td>PAG OIL ISO100 250 ml</td>
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<tr>
<td>007935090730</td>
<td>PAG OIL ISO150 250 ml</td>
<td>007950024920</td>
<td>PAG OIL FOR R1234a AGENT</td>
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<tr>
<td>007935090660</td>
<td>PAG OIL ISO46 1L</td>
<td>007935090670</td>
<td>PAG OIL ISO100 1Lt</td>
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<tr>
<td>007935090680</td>
<td>PAG OIL ISO150 1Lt</td>
<td>007950024490</td>
<td>POE OIL 5 L 5 L</td>
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<tr>
<td>007950024500</td>
<td>PAG OIL 46 5L</td>
<td>007950024510</td>
<td>PAG OIL 100 5L</td>
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<tr>
<td>007950024520</td>
<td>PAG OIL 150 5L</td>
<td>007950024860</td>
<td>PAO OIL 68 0,5 L WITH TRACER</td>
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<tr>
<td>007950024850</td>
<td>PAO OIL 68 1 L WITH TRACER</td>
<td>007950024650</td>
<td>PAO OIL 68 5 L</td>
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<td>007950024630</td>
<td>PAO OIL 68 250 ML</td>
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<td></td>
<td></td>
<td>007950024640</td>
<td>PAO OIL 68 1 L</td>
</tr>
</tbody>
</table>

*ALL COOLWEATHER OILS ARE DRIED WITH NITROGEN*
COMPLEX AIR-CONDITIONING MAINTENANCE
ACCESSORIES

Wires/Quick Couplings
Repair Kits
Fluids/O-Rings/Valves

007935090600 VACUUM PUMP OIL 0,5L
007950024880 VACUUM PUMP OIL 1L

007950024680 HYBRID COMPRESSOR OIL
VISCOSITY 80, OPDR 754V/2,5 MM

007950024670 TRACER IN HERMETIC PACKAGING. 200 ML
007950024660 PAO OIL 68 IN HERMETIC PACKAGING 200 ML
007950024670 TRACER IN A HERMETIC PACKAGE M 200 ML

007935090640 UV TRACER 250ml
007935090610 UV CONTRAST 5L
007950024920 TRACER FOR HYBRID CARS
007950024910 TRACER AGENT FOR R1234a

007950024050 CLEANING SPRAY FOR CONDENSER (2 PCS)
007950025170 CONDENSERS CLEANER 5 L
007950025180 ACTIVE FOAM CLEANING OF CLEANING
AIR CONDITIONER ELEMENTS 1L
007950024050 CONDENSER CLEANING SPRAY (2 PCS)

007950024530 AIR CONDITIONING SYSTEMS
RINSING LIQUID 1 L
007950024540 AIR CONDITIONING SYSTEMS
RINSING LIQUID 5 L
007950024550 AIR CONDITIONING SYSTEMS
RINSING LIQUID 20 L
### COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

#### Wires/Quick Couplings

#### Repair Kits

#### Fluids/O-Rings/Valves

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>007950024690</td>
<td>LEAK DETECTION FOAM</td>
</tr>
<tr>
<td>007950024870</td>
<td>SET OF 2 SPRAYS FOR DISINFECTING, FOAM „BOMB” 150 ML + ACTIVE FOAM 50 ML SPRAY FOR DISINFECTING 400 ML</td>
</tr>
<tr>
<td>007950024020</td>
<td>DISINFECTING SPRAY 200ML DISPOSABLE</td>
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<tr>
<td>007950025150</td>
<td>AIR CONDITIONING DISINFECTANT LIQUID 5 L</td>
</tr>
<tr>
<td>007950025160</td>
<td>AIR CONDITIONING DISINFECTANT LIQUID 1 L - CONCENTRATE</td>
</tr>
<tr>
<td>007950013001</td>
<td>AIRCHECK PLUS/HD STATION COVER</td>
</tr>
<tr>
<td>007935094100</td>
<td>MM7F STATION COVER</td>
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<tr>
<td>007950015045</td>
<td>CLIMA TECH STATION COVER</td>
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<tr>
<td>007950024350</td>
<td>VALVE REMOVAL SPANNER</td>
</tr>
<tr>
<td>007950025200</td>
<td>VALVE REMOVAL DEVICE</td>
</tr>
<tr>
<td>007950025020</td>
<td>SPECIAL CLAMP TO REMOVE LP TOYOTA TUBE</td>
</tr>
<tr>
<td>007950025030</td>
<td>SPECIAL CLAMP TO REMOVE HP TUBE TOYOTA</td>
</tr>
</tbody>
</table>
COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

Wires/Quick Couplings
Repair Kits
Fluids/O-Rings/Valves

007950024760  FORD SPRING LOCK KIT
007950024770  OPEL SPRING LOCK KIT

007950014140  OIL FEEDING INJECTOR 1/4 „FFL X 1/4“ MFL

007950014150  OCTAGONAL KEY FOR SERVICE PORT Lp R134a Dismantling
007950014160  OCTAGONAL KEY FOR SERVICE PORT Lp R134a Dismantling

007950024580  SERVICE PORT 15 X 1,0
007950024590  SERVICE PORT 13 X 1,1
007950024600  SERVICE PORT HP 12 X 1,5
007950024840  HIGH PRESSURE ADAPTOR 1/4“ X 13 MM
007950024800  HP FORD CONNECTION PIPE M 10 X 1,25

007935090690 FIAT GROUP O-RING KIT

NR 6 O-RING (10 PCS)
NR 8 O-RING (10 PCS)
NO. 10 O-RING (10 PCS)
NO. 12 O-RING (10 PCS)
SERVICE VALVE (10 PCS)
O-RING PRESS. M. 11,13 X 9,25 (10 PCS)
O-RING PRESS. M. 6,7 X 5,1 (10 PCS)
O-RING NIPPON DENSO G6 (10 PCS)
O-RING NIPPON DENSO GB (10 PCS)
O-RING NIPPON DENSO COMP. (10 PCS)
LP VALVE PROTECTION NUT (2 PCS)
HP VALVE PROTECTION NUT (2 PCS)

SEALING O-RING 17,7MM (3 PCS)
SEALING O-RING 14,7MM (3 PCS)
SEALING O-RING 11,7MM (3 PCS)
SEALING O-RING 8,7MM (3 PCS)
O-RING DOUBLE 15,4MM (5 PCS)
O-RING DOUBLE 10MM (5 PCS)
O-RING DOUBLE 18MM (5 PCS)
O-RING NIPPON DENSO 24 X 20 (10 PCS)
O-RING HARRISON 23,77 X 20,22 (10 PCS)
**Wires/Quick Couplings**

**Repair Kits**

**Fluids/O-Rings/Valves**

---

### 007935090750 UNIVERSAL O-RING KIT

<table>
<thead>
<tr>
<th>O-Ring Type</th>
<th>Quantity</th>
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<tbody>
<tr>
<td>NO. 6 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>NO. 8 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>NO. 10 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING COUPLER</td>
<td>10 PCS</td>
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<tr>
<td>O-RING NIPPON DENSO G8</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING NIPPON DENSO G6</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING PRESS. M. 11,13 X 9,25</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING PRESS. M. 6,7 X 5,1</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING NIPPON DENSO COMP</td>
<td>10 PCS</td>
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<tr>
<td>O-RING HARRISON</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING 8MM</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING 9MM</td>
<td>10 PCS</td>
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<tr>
<td>O-RING DOUBLE 15,4MM</td>
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<tr>
<td>O-RING DOUBLE 10MM</td>
<td>5 PCS</td>
</tr>
<tr>
<td>O-RING DOUBLE 18MM</td>
<td>5 PCS</td>
</tr>
<tr>
<td>O-RING PEUGEOT 6460P2</td>
<td>5 PCS</td>
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<tr>
<td>O-RING PEUGEOT 6460P1</td>
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<td>5 PCS</td>
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<tr>
<td>SEALING O-RING</td>
<td>3 PCS</td>
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<tr>
<td>SEALING O-RING 17,7MM</td>
<td>3 PCS</td>
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<tr>
<td>SEALING O-RING 14,7MM</td>
<td>3 PCS</td>
</tr>
<tr>
<td>SEALING O-RING 11,7MM</td>
<td>3 PCS</td>
</tr>
<tr>
<td>SEALING O-RING 8,7MM</td>
<td>3 PCS</td>
</tr>
<tr>
<td>VALVE R12/R134 5MM</td>
<td>10 PCS</td>
</tr>
<tr>
<td>VALVE 8MM</td>
<td>5 PCS</td>
</tr>
<tr>
<td>HIGH FLOW VALVE</td>
<td>5 PCS</td>
</tr>
</tbody>
</table>

---

### 007950024090 SPECIAL O-RING KIT 88 PCS

<table>
<thead>
<tr>
<th>O-Ring Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-RING DOUBLE 10MM</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING DOUBLE 15,4MM</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING DOUBLE 18MM</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING PEUGEOT 6460P2</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING PEUGEOT 6460P1</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING RENAULT 1-7701207274</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING RENAULT 2-7701207274</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING RENAULT 3-7701207274</td>
<td>10 PCS</td>
</tr>
<tr>
<td>SEALING O-RING</td>
<td>2 PCS</td>
</tr>
<tr>
<td>SEALING O-RING 17,7MM</td>
<td>2 PCS</td>
</tr>
<tr>
<td>SEALING O-RING 14,7MM</td>
<td>2 PCS</td>
</tr>
<tr>
<td>SEALING O-RING 11,7MM</td>
<td>2 PCS</td>
</tr>
<tr>
<td>SEALING O-RING 8,7MM</td>
<td>2 PCS</td>
</tr>
</tbody>
</table>

---

### 007950024080 STANDARD O-RING KIT

<table>
<thead>
<tr>
<th>O-Ring Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO. 6 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>NO. 8 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>NO. 10 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>NO. 12 O-RING</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING NIPPON DENSO G8</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING NIPPON DENSO G6</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING PRESS. M. 11,13 X 9,25</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING PRESS. M. 6,7 X 5,1</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING NIPPON DENSO COMP</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING HARRISON</td>
<td>10 PCS</td>
</tr>
<tr>
<td>O-RING 8MM</td>
<td>10 PCS</td>
</tr>
</tbody>
</table>

---

**COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES**
COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

Wires/Quick Couplings
Repair Kits
Fluids/O-Rings/Valves

007935090930 O-RING AND SPRING LOCK KIT FOR FORD AND GM (60 PCS)
- 6 O-RING (10 PCS)
- 8 O-RING (10 PCS)
- 10 O-RING (10 PCS)
- 12 O-RING (10 PCS)
- 6 SPRING SEAL (5 PCS)
- 8 SPRING SEAL (5 PCS)
- 10 SPRING SEAL (5 PCS)
- 12 SPRING SEAL (5 PCS)

SINGLE O-RING KIT
- 007950024150 O-RING N° 6 (10PCS)
- 007950024160 O-RING N° 10 (10PCS)
- 007950024170 O-RING N° 8 (10PCS)
- 007950024180 O-RING COUPLER
- 007950024200 O-RING 11.13 X 9.25 PRESS. M (10PCS)
- 007950024205 O-RING 6.7 X 5.1(10PCS)
- 007950024210 O-RING 7.5 X 10.3 GG DENSO (10PCS)
- 007950024220 O-RING 24.4 X 20 COMP. DENSO(10PCS)
- 007950024230 O-RING 12.7 X 10.3 G8 DENSO(10PCS)
- 007950024240 VALVE PROTECTION NUT R134A LP(2PCS)
- 007950024250 VALVE PROTECTION NUT R134A HP(2PCS)
- 007950024260 SEALING O-RING, INNER DIAMETER. 17.7MM(3PCS)
- 007950024270 SEALING O-RING, INNER DIAMETER. 14.7MM(3PCS)
- 007950024280 SEALING O-RING, INNER DIAMETER. 11.7MM(3PCS)
- 007950024290 SEALING O-RING, INNER DIAMETER. 8.7MM(3PCS)
- 007950024300 O-RING DOUBLE, OUTER DIAMETER 15.4MM(5PCS)
- 007950024310 O-RING DOUBLE, OUTER DIAMETER 10MM(5PCS)
- 007950024320 O-RING DOUBLE, OUTER DIAMETER 18MM(5PCS)
- 007950024330 ORING 24.4 X 20 DENSO(10PCS)
- 007950024340 ORING 23.7 X 20,22 HARRISON(10PCS)
- 007950024360 ORING 9MM(10PCS)
- 007950024370 ORING PEUGEOT 6460P2(5PCS)
- 007950024380 ORING PEUGEOT 6460P1(5PCS)
- 007950024390 ORING RENAULT 1-7701207274(5PCS)
- 007950024400 ORING RENAULT 2-7701207274(5PCS)
- 007950024410 ORING RENAULT 3-7701207274(5PCS)
- 007950024450 ORING 8 MM(10PCS)

007950024820 O-RING GRIP

007950024070 SERVICE VALVE SET 33PCS
- 007950024190 STANDARD SERVICE VALVE (10 PCS)
- 007950024420 VALVE R12/R134 5MM (10 PCS)
- 007950024430 VALVE 8MM (5 PCS)
- 007950024440 VALVE HIGH FLOW(5 PCS)
- 007950024460 VALVE VW GM(5 PCS)
- 007950024470 STANDARD 8 MM(5 PCS)
- 007950024480 STANDARD VALVE 10 MM(5 PCS)

007950024830 LARGE VALVE
### Complex Air-Conditioning Maintenance Accessories

**Wires/Quick Couplings**

**Repair Kits**

**Fluids/O-Rings/Valves**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>007950024240</td>
<td>Valve Protection Nut R134A LP (2PCS)</td>
</tr>
<tr>
<td>007950024250</td>
<td>Valve Protection Nut R134A HP (2PCS)</td>
</tr>
</tbody>
</table>

**007950024560**  SET OF CAPS AND SERVICE PORTS

**007950024570**  THROTTLE NOZZLES SET (10 PCS)

- Throttle Nozzle Blue (Ford)
- Throttle Nozzle Grey (Audi)
- Throttle Nozzle Yellow (Volvo)
- Throttle Nozzle White (Fiat)
- Throttle Nozzle Brown (Ford)
- Throttle Nozzle Black (Opel)
- Throttle Nozzle Purple (Chrysler)
- Throttle Nozzle Orange (Ford)
- Throttle Nozzle Red (Ford)
- Throttle Nozzle Green (Ford)

**007950025090**  SEALING KIT FOR COMPRESSOR

**007950024570**  THROTTLE NOZZLES SET (10 PCS)

**007935090931**  REPAIR KIT FOR QUICK COUPLINGS AND WIRES (90 PCS)

- 10 O-RINGS FOR HIGH PRESSURE COUPLINGS
- 10 O-RINGS FOR LOW PRESSURE COUPLINGS
- 10 R134A SHUT-OFF VALVE SEALS
- 10 R12 SHUT-OFF VALVE SEALS
- 5 NYLON HIGH PRESSURE COUPLING SEALS
- 5 NYLON LOW PRESSURE COUPLING SEALS
- 10 R12 SEALS
- 10 R12 CABLE CORES
- 10 R134A O-RINGS
- 10 R134A SEALS
COMPLEX AIR-CONDITIONING MAINTENANCE ACCESSORIES

Wires/Quick Couplings
Repair Kits
Fluids/O-Rings/Valves

007950013760  AIR CONDITIONING STATION HOSE 250 CM BLUE
007950013770  AIR CONDITIONING STATION HOSE 250 CM RED
007950013720  AIR CONDITIONING STATION HOSE 400 CM RED
007950013730  AIR CONDITIONING STATION HOSE 400 CM BLUE
007950024950  HOSE AIR CONDITIONING STATIONS FOR R1234a RED 2.5 M THREAD 1/2 INCH
007950024960  HOSE AIR CONDITIONING STATIONS FOR R1234a BLUE 2.5 M THREAD 1/2 INCH

007950024040  HOSE CONNECTOR 1/4 X 1/4" SAE

007950024100  R134a CYLINDER COUPLING
007950024810  CONNECTION TO THE CYLINDER R134a
1/4" X 13 MM + ADAPTER 1/4 SAE

007950024780  FILTER KIT WITH AN INSPECTION GLASS

007950025040  COMB TO STRAIGHTEN CONDENSER BLADES

007950013780  LP QUICK COUPLING 1/4 INCH 16MM
007950013790  HP QUICK COUPLING 1/4 INCH 16MM
007950024930  HP QUICK COUPLING FOR R1234a AGENT (FEMALE THREAD 1/2 INCH)
007950024940  LP QUICK COUPLING FOR R1234a AGENT (FEMALE THREAD 1/2 INCH)
007950025230  HP QUICK COUPLING 1/2 INCH WITH CONNECTOR INTO 1/4 MALE
007950025240  LP QUICK COUPLING 1/2 INCH WITH CONNECTOR INTO 1/4 MALE
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>007950024000</td>
<td>180° LP QUICK COUPLING</td>
</tr>
<tr>
<td>007950024010</td>
<td>180° HP QUICK COUPLING</td>
</tr>
<tr>
<td>007950024560</td>
<td>EXTENDED-TYPE QUICK COUPLING VOLVO, BMW AND OTHERS</td>
</tr>
<tr>
<td>007950025250</td>
<td>RENAULT HP-LP QUICK COUPLING</td>
</tr>
<tr>
<td>007950025220</td>
<td>THROTTLE NOZZLE REMOVAL KIT</td>
</tr>
<tr>
<td>007950024110</td>
<td>SMALL SERVICE KIT FOR STATIONS (OIL + FILTER) FOR MM7F/MM6F STATION</td>
</tr>
<tr>
<td>007950024130</td>
<td>LARGE SERVICE KIT FOR STATIONS (OIL + FILTER + FOAM FOR LEAK DETECTION + O-RINGS) FOR AIR CHECK/CLIMATECH/STRAY DELPHI/BOSCH SILVERTRONIC</td>
</tr>
<tr>
<td>007950025050</td>
<td>SPX VALEO ROBINAIR FILTER DIAMETER 76MM LENGTH 275MM</td>
</tr>
<tr>
<td>007950025060</td>
<td>SPX ROBINAIR VALEO FILTER DIAMETER 90MM LENGTH 294MM, THREAD 1/4 INCH</td>
</tr>
<tr>
<td>007950025070</td>
<td>TEXA FILTER, DIAMETER 76MM LENGTH 240 MM, CONNECTOR 3/8 INCH</td>
</tr>
</tbody>
</table>
### Complex Air-Conditioning Maintenance Accessories

<table>
<thead>
<tr>
<th>Wires/Quick Couplings</th>
<th>Repair Kits</th>
<th>Fluids/O-Rings/Valves</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONVERSION KIT R1234A FOR CLIMA TECH NEXT</strong></td>
<td><strong>FILTER PROTECTION STOPWATER</strong></td>
<td></td>
</tr>
</tbody>
</table>

**MAGNETI MARELLI ALSO HAS A RANGE OF REFRIGERANT GASES SUCH AS R134A AUTOMOTIVE USE, R1234A AND OTHER INDUSTRIAL APPLICATIONS (R404).**
OTHER TOOLS

Special Tools

007935063360
INJECTOR SOCKET CLEANING TOOL
FOR DENSO 17-19 MM

007935095090
ELECTRICAL CONNECTION AND
MERCEDES CDI (SPRINTER, VIANO, VITO,
VARIO) INJECTOR DISMANTLING TOOL
Mercedes: Sprinter, Viano, Vito, Vario,
E-Class, C-Class
Engines: CDI

007935063340
INJECTOR SOCKET CLEANING TOOL
FOR BOSCH SIEMENS DELPHI

007935063350
INJECTOR EDGE MILLING TOOL

007935063530
FULL INJECTOR DISMANTLE KIT FOR
Mercedes CDI DEDICATED FOR THE
A & B - Class MODELS
Mercedes: A-Class (168-04, 169
04-), B-Class
### Special Tools

**007935063540**

Special attachment for dismantling of injectors SIEMENS DIESEL (to be used with the hammer from the kit 007935063580).

**Peugeot, Citroen, Ford, Toyota**

Diesel engines: 1.4, 2.0, 2.2

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**007935063550**

Special attachment for fitting of injectors SIEMENS DIESEL (to be used with the hammer from the kit M27x1).

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**007935063560**

**SPECIAL KIT FOR DISMANTLING OF INJECTORS IN THE PSA 2.0-2.2 HDI ENGINES**

**Injectors:** Bosch, Siemens

**Peugeot, Citroen, Fiat, Lancia**

Engines:
- 2.0 HDI
- 2.2 HDI

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**007935063570**

**SPECIAL INJECTOR DISMANTLING ATTACHMENT FOR DENSO INJECTORS** (to be used with the hammer from the kit 007935063580).

**Injectors:** Denso

**Toyota, Mazda, Hyundai**

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**007935063580**

**UNIVERSAL INJECTOR DISMANTLING KIT FOR Bosch, Delphi, Mercedes, Volvo, Ford, Renault, Kia, TRUCKS INJECTORS**
OTHER TOOLS

Special Tools

**007935063440**

KIT FOR DISMANTLING OF INJECTORS AND PUMP INJECTORS DEDICATED FOR TRUCKS

**007935063630**

ELECTRICAL CONNECTIONS AND INJECTOR DISMANTLING TOOL FOR MERCEDES CDI (SPRINTER, VIANO, VITO, VARIO)

**007935063370**

COPPER INJECTOR SEAL REMOVAL TOOL

**007935063450**

INJECTOR DISMANTLING TOOL KIT FOR FIAT MULTIJET
Fiat, Alfa Romeo
Lancia, Opel, Suzuki
ENGINES:
1.3 MJ 16V / CDTI / DdiS 16V
1.6 MJ 16V
1.9 MJ 16V / CDTI / DDiS 16V
2.0 MJ 16V / CDTI

**007935063460**

DISMANTLING INJECTOR KIT FOR ALL TYPES OF
Fiat, Alfa Romeo Lancia,
Opel Saab, Suzuki JTD ENGINES
OTHER TOOLS

Special Tools

007935060830
UNIVERSAL INJECTOR
DISMANTLING KIT FOR
THE COMMON RAIL TYPE

007935063380
GLOW PLUG REMOVAL TOOL KIT
THREAD M8 + M10

007935063390
GLOW PLUG DISMANTLE
TOOL KIT M9 FOR 1.3 MJ ENGINES
(FIAT OPEL SUZUKI)

007935063400
GLOW PLUG AND IGNITION
GLOW PLUG REPAIR KIT

007935063590
GLOW PLUG THREAD RENEWAL
TOOL - M8, M9 & M10
## Special Tools

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>007935060890</td>
<td>Fitting and dismantling device for all valve types in petrol and diesel engines</td>
</tr>
<tr>
<td>007935063410</td>
<td>Alternator dismantle spanner Magneti Marelli/Bosch/Delphi</td>
</tr>
<tr>
<td>007935060770</td>
<td>8 Oil filter wrenches</td>
</tr>
<tr>
<td>00793506580</td>
<td>Multi Jet filters dismantling kit</td>
</tr>
<tr>
<td>007935063620</td>
<td>Tire regroover - Voltage 230 007935</td>
</tr>
</tbody>
</table>
OTHER TOOLS

Special Tools

007935063430
CLUTCH CENTERING KIT FOR SAC CLUTCHES WITH 4 JAWS

007935063420
CLUTCH CENTERING KIT FOR SAC CLUTCHES WITH 3 JAWS CLAMPS

007935063610
CLUTCH CENTERING TOOL

007935063470
COMPLETE KIT FOR CAMSHAFT SETTING IN THE NEW ENGINES BMW 2.0 DIESEL
118d, E81/87 (06-09)
120d, E81/82/87 (06/09)
120d, E81/82/87 (07-09)
318d, E90/91 (07-09)
320d, E90/91/92 (05-09)
X3, 2.0d, E83 (07-09)

007935063480
KIT FOR CAMSHAFT SETTING FOR THE NEW ENGINE FIAT 1.4 8 V FIRE EVO 2 PETROL

Fiat: Idea, Punto, Grande
Punto, Stilo, Panda, 500,
Bravo
Lancia: Ypsilon, Musa

Engines:
1.4 FIRE Evo2,
1.4 16V 90/95/100KM Starjet,
1.4 16V 120/150KM T-Jet
OTHER TOOLS

Special Tools

**007935063600**
KIT FOR FITTING AND DISMANTLING OF NEW ELASTIC TIMING BELTS

**007935060850**
KIT FOR POSITION ADJUSTMENT OF BRAKE JAWS IN FIAT STILO AND ALL FIAT MULTIPLA MODELS

**007935060870**
BRAKE CYLINDER HONING DEVICE - TRUCKS DIAMETER 60 - 260MM LENGTH 127MM

**007935060880**
BRAKE CYLINDER HONING DEVICE - PASSENGER CARS DIAMETER 50 - 160MM LENGTH 100MM

**007935060900**
BRAKE CYLINDER UNSCREW DEVICE IN VW-SEAT-SKODA CARS
Camshaft Setting

007935063490
CAMSHAFT SETTING KIT
FOR ALL TRUCK ENGINES
2.2-2.3-3.0 MULTJET
Fiat: Ducato, Iveco, Daily
Ford: Transit
Peugeot: Boxer
Citroen: Jumper
Engines:
2.2 JTD, 2.3 JTD, 3.0 JTD

007935063500
CAMSHAFT SETTING KIT
FOR THE NEW ENGINE
Alfa Romeo: MiTo, MiTo QV, Giulietta,
Fiat: 500, Punto Evo, Bravo
Abarth: Punto Evo
Engines:
1.4 MultiAir 16V 102/105KM
1.4 MultiAir Turbo 16V 135/140/165/170KM

007935063510
CAMSHAFT SETTING COMPLETE KIT
FOR RENAULT ENGINES
1.5-1.9-2.2-2.5 DCI; 1.9; 1.9 TD
Renault: Clio, Kangoo, Laguna, Espace, Master, Megane, Scenie, Trafic
Nissan: Kubistar, Interstar, Quashqai
Engines:
1.5 dCi, 1.9 TD, 1.9 dCi
2.2 dCi, 2.5 dCi

007935063520
CAMSHAFT SETTING AND SHAFT
BLOCKING COMPLETE KIT
FOR THE NEW ENGINES
Opel: Vivaro
Renault: Trafic
Nissan: Primastar
Engines:
2.0 dCi (z łańcuchem)

007935060630
CAMSHAFT PHASE SETTING TOOL KIT
FOR FORD Z-TEC
Ford: Fiesta, Fusion, Courier, Escort, Focus, Puma,
Mdeo, Transit, Connect, Cougar
Maza: 121
Volvo: 540, V50
Engines:
1.2, 1.4, 1.6, 1.7 16V – z paskiem
1.8, 2.0 16V – z paskiem
1.6 16V – z łańcuchem
1.4, 1.6 16V Focus/Maza 121
1.8D, 1.8 TD
OTHER TOOLS

Camshaft Setting

007935060640
4-ELEMENT CAMSHAFT PHASE SETTING KIT
FOR FIAT PUNTO 1.2 AND 1.4 16V
Fiat: Punto, Bravo, Brava, Marea, Palio, Stilo
Engines:
1.2 16V
1.4 16V

007935060670
CAMSHAFT PHASE SETTING KIT FOR THE ENGINES FROM 1.4 TO 3.0 (FIAT, LANCIA ALFA ROMEO)
00: Fiat Bravo/Brava, Lancia Y10 1.4 12v
10: Lancia K R5 2.0 20v 96-
20/21: Alfa Romeo 3.0 V6 24V
40: Lancia R5 -96
50: Fiat Bravo/Brava/Marea Lancia Dedra/Delta 1.8 16V 115KM
60: Fiat Coupe/Alfa/Lancia 1.8 16V 130HP Alfa 155
70: Fiat Bravo/Brava/Marea 2.0 20V
80: Fiat Barchetta/Coupe 1.8 16V z wariantorem
90: Alfa 145/146 1.4 16V / 1.6 16V (serii A), 147 1.6 120KM
100: Alfa 156 1.6 16V, 145/146 1.4/1.6, 155 1.6 16V
105: Alfa 156 1.8-2.0 16V, Spider/GTV TS 2.0, 155 TS 1.8
120: Fiat/Lancia 2.0 Turbo

007935060780
CAMSHAFT PHASE SETTING KIT FOR THE ENGINES 1.6 16V STILO, MULTIPLA, BRAVA, BRAVO
MAREA, PALIO
Fiat: Bravo, Brava, Marea, Palio, Stilo, Multipla
Engine:
1.6 16V

00793506080
CAMSHAFT PHASE SETTING KIT FOR THE NEW ENGINES 1.9 TDI
VW-AUDI
Camshaft Setting

007935060600
CAMSHAFT PHASE SETTING KIT
FOR THE ENGINES 1.0-1.2 OPEL

Opel: Corsa, Agila, Meriva, Astra
Engine:
1.0 12V/16V
1.2 16V
1.4 16V (z łançuchem)

007935060790
CAMSHAFT PHASE SETTING KIT
FOR THE ENGINES
FIAT DUCATO 2.3 JTD
Fiat: Ducato
Iveco: Daily
Engine:
2.3 JTD

007935060800
CAMSHAFT PHASE SETTING KIT FOR
THE NEW ENGINES
Audi: A2, A3, A4, A5, A6, Q5, TT
Seat: Alhambra, Altea, Arosa, Cordoba, Ibiza, Inca, Leon, Toledo, Exeo
Skoda: Fabia, Octavia, Roomster, Superb
VW: Beetle, Bora, Caddy, Eos, Fox, Golf, Jetta, Lupo, Passat, Polo, Scirocco, Sharan, Tiguan, Touran, Transporter
Ford: Galaxy
Engines:
1.2 TDI PD
1.4 TDI PD
1.6 TDI CR
1.9 SDI
1.9 TDI PD
2.0 TDI PD/CR

007935060610
CAMSHAFT PHASE SETTING
IN RENAULT 1.8-2.0 16V
+CAMSHAFT BLOCK BLOCKADE
1.4-1.6
Renault: Clio, Clio Sport, Megane, Scenie, Laguna, Espace
Nissan: Note, Quashqai
Petrol engines:
1.4, 1.6, 1.8, 2.0 16V
CAMSHAFT PHASE SETTING KIT FOR THE NEW ENGINES 1.3-1.9-2.4 MULTIJET 140-175 CV.
ALFA-FIAT-LANCIA-OPEL-SUZUKI
**Alfa Romeo:** 145, 146, 147, 156, 159, 166, GT
**Fiat:** Punto, Grande Punto, Bravo/Brava, Marea, Stilo, Doblo, Multipla
**Renault:** 2.5 I 2.2 DCI DIESEL
**Nissan:** Interstar, Primästar
**Volkswagen:** 2.0 TDI 16V
**Opel:** Corsa, Astra, Zafira, Vectra, Omega, Sintra, Frontera, Signum
**Saab:** 9-3, 9-5
**Suzuki:** Ignis, Swift, Wagon R+
**Engines:** 1.9 TD 8V/16V, 2.4 TD 16V/20V

CAMSHAFT PHASE SETTING KIT FOR THE ENGINES RENAULT 1.9 DIESEL AND 1.2, 1.2 16V GASOLINE
**Renault:** Megane, Scenie, Laguna, Trafic, Twingo, Clio, Kangoo
**Nissan:** Quashqai, Kubistar, Interstar
**Volvo:** S40/V40
**Engines:** 1.9, 1.9 TD, 1.9 dCi, 1.2, 1.2 16V

CAMSHAFT PHASE SETTING KIT FOR THE ENGINES RENAULT 2.5 I 2.2 DCI DIESEL
**Renault:** Laguna, Espace, Master
**Nissan:** Interstar,
**Volkswagen:** 2.0 TDI 16V
**Opel:** Corsa, Astra, Zafira, Vectra, Omega, Sintra, Frontera, Signum
**Saab:** 9-3, 9-5
**Suzuki:** Ignis, Swift, Wagon R+
**Engines:** 1.9 TD 8V/16V, 2.4 TD 16V/20V

CAMSHAFT PHASE SETTING KIT FOR THE ENGINES OPEL 12V AND 16V AND 2.0 TDI 16V
**Opel:** Corsa, Agila, Meriva, Astra, Zafira, Vectra, Omega, Sintra, Frontera, Signum
**Saab:** 9-3, 9-5
**Engines:** Opel: 1.0 12V/16V, 1.2 16V
1.4 16V (z isłakami), 2.0/2.2 Di
**Saab:** 2.2 Di (silnik D223L)
SHOCK ABSORBERS CHANGER
Magneti Marelli is the first company on the Polish market to introduce the unique and universal pneumatic device, designed for dismantling and assembling of shock absorbers to the MacPherson strut tower. The device uses the compressed air from a compressor. Standard equipment contains two clamps for spring holding. Thanks to them, dismantling of the shock absorbers can be fast and reliable. Keeping the spring in a compressed state significantly reduces the exchange time. The device is particularly useful for the new types of misaligned and conical shock absorbers, thanks to the self-aligning bar that adjusts to any misalignments. The device is equipped with a practical and reliable tool shelf. The maximum pressure force at 6 atm is 735 kg, and at 8 atm - 980 kg. Two clamps gripping the spring, included in the equipment, allow for compression of all springs available on the market. The clamps have a quick release holder that enables passing, with no time loss, from large to small clamps. The kit also includes a clip (007935060310) which, when installed in the place of the clamps that are gripping the spring, enables direct blocking of the outer tube of the shock absorber, and additional clamps for Mercedes, Honda and Toyota (additional equipment).

Operating pressure – Atm: Min 6 - Max 10
Overall dimensions - 140x65x40 cm.
Weight - 72 kg
Pressure force – max. kg 735 (6 Atm) /kg. 980 (8 Atm.)
Magneti Marelli offers pneumatic, universal device for replacement of brake fluid. The device consists of a stainless steel container, inside which moves the rubber diaphragm sucking brake fluid from the car. After filling the inner tank to the maximum operating pressure, the device operates independently. Just one person is enough to fully and completely replace the fluid. The kit includes service adapters, hoses, and two reservoirs of 1L.

**DEVICE FOR BRAKE FLUID REPLACEMENT BF-12**

- Working pressure: 0.7 - 3 bar
- Dimensions 25x25x7.5
- 6 liter tank, 5 meter hose (compressed air), Safety valve 3 bar

**OIL AND ASPIRATOR**

<table>
<thead>
<tr>
<th></th>
<th>Aspirator measuring tank MMOD-02 007935016720</th>
<th>Aspirator MMOD-01 007935016710</th>
<th>MM aspirator 0D-03 007935016700</th>
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<tbody>
<tr>
<td>Vacuum (Mpa)</td>
<td>0--0.1</td>
<td>0--0.1</td>
<td>0--0.1</td>
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<tr>
<td>Pressure Input (Bar / Psi)</td>
<td>8<del>10/114</del>145</td>
<td>8<del>10/114</del>145</td>
<td>8<del>10/114</del>145</td>
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<tr>
<td>Capacity Tank (liters)</td>
<td>80</td>
<td>80</td>
<td>80</td>
</tr>
<tr>
<td>Performance (Liter / m)</td>
<td>1.5~2</td>
<td>1.5~2</td>
<td>1.5~2</td>
</tr>
<tr>
<td>Operating Pressure (Bar / Psi)</td>
<td>1<del>2/14</del>28</td>
<td>1<del>2/14</del>28</td>
<td>1<del>2/14</del>28</td>
</tr>
<tr>
<td>Oil temperature range</td>
<td>40~80</td>
<td>40~80</td>
<td>40~80</td>
</tr>
<tr>
<td>Measuring tank (Liter / Gallon)</td>
<td>10/2.6</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Pantograph (Liter / Gallon)</td>
<td>20</td>
<td>15</td>
<td>-</td>
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<tr>
<td>Standard:</td>
<td>Shelf tools, paper holder; Bath Sink</td>
<td>Shelf tools, paper holder, Bath Sink</td>
<td>Shelf tools, paper holder</td>
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<tr>
<td>Dimensions:</td>
<td>500<em>420</em>890MM</td>
<td>470<em>470</em>230MM</td>
<td>500<em>420</em>890MM</td>
</tr>
<tr>
<td>Weight:</td>
<td>29/32KGS</td>
<td>25/27KGS</td>
<td>22/24KGS</td>
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</table>
DETAILS PRODUCT DESCRIPTION

Transmission Fluid Oil Exchanger Remove, clean and replace transmission fluid Free of disassemble
Transmission Fluid Oil Exchanger Remove, clean and replace transmission fluid (AFT) from most types and models of automatic transmissions. Help restoring gearbox's speeding performance, reducing vibration and oil consumption. Free of disassemble, time efficient and easy operation.

Model No.: TC-100
Product Name: Transmission Fluid Oil Exchanger
Power: AC220V/50HZ/1PHASE 350W
Working Pressure: 80~120PSI
Suit For: Gasoline/diesel vehicles
Meas.: 650*520*1160mm
G.W.: 60kgs

007935016740
RETIIS IS A BANK OF TECHNICAL DATA THAT SUPPORTS A MECHANIC DURING DIAGNOSING AND REPAIRING OF DEFECTS.

The system includes information on:
- vehicle identification
- planned technical reviews
- information on the adjustments performed
- lubricants and operating fluids
- technical data concerning the engine and the adjustments
- technical drawings
- engine control
  (and localization of the components)
- ABS
- Air- Bag
- fuses and relays
- air-conditioning
- electrical connections schematics
- repair and maintenance times
- bodywork (disassembly and assembly of components)
- comfort systems
  (electrical schematics and functioning)
- EOBD error codes interpretation

MAINTENANCE

List of operations required during the control reviews

ENGINE - REPAIR INSTRUCTIONS

Clear pictures with explanation and indication of the repaired areas, and with the values required for a proper control and adjustment.

ELECTRONICS - ENGINE CONTROL

Components setting and adjustment, with a schematic of electrical connections and of the connections between the system components. Clicking on a description opens a corresponding page.

ADJUSTMENT DATA

A wide range of information on the adjustments: from the engine to the tires.

EXTERNAL PART/INTERIOR

Data, drawings and repair guidelines for the systems situated in the cabin and in the body

6,600 engine control systems
Thousands of electrical connections schematics
Millions of specified repair times
TECHNICAL DATA BANK SOFTWARE

Autodata

LEADING TECHNICAL DATABASE PROVIDER

INFORMATION ON:

- DIAGNOSTICS
- MAINTENANCE
- REPAIRS FOR CAR WORKSHOPS

OVER 14000 MODELS IN THE DATABASE

PARAMETERS DIRECTLY FROM THE PRODUCERS

ACCESS TO ALL DATABASE UPDATES

REPAIRS AND PERIODICAL INSPECTIONS

DIAGNOSTICS

SERVICE INSTRUCTIONS

VEHICLE ELECTRONIC SYSTEMS

CODE | ACCESSORIES
---|---
009999269600 | AUTODATA ONLINE 2
009999269500 | AUTODATA ONLINE 3
009999269700 | AUTODATA TRUCK ONLINE

*Also available for Trucks!
Advanced estimation software

Advanced estimation software yet easy to consult, with centralized databases (vehicles, times, prices, original and after market spare parts), accessible via the Internet, on dedicated server and line for high performances. Customer lists and estimates just a few screens to develop a surprising application in terms of easy use, fast server response and for the surprising ease of use, speed of response of the server and huge quantity of data, with...
TECa - Workshop software management

DESCRIPTION
TECa is an information system that allows you to follow the vehicle from the time it enters the workshop up to its delivery to the customer.
Vehicle entrance sheet, acceptance, rapid estimates with repair times, search for original and alternative spare parts and communications are only some of the operations that can be carried out with the programme.
Workshop operations are thus simplified, improving efficiency and customer service levels.

TECa is a management software dedicated to the multi-brand and multi-specialized workshop that offers:

• dynamic estimates (4 databases);
• carmakers’ repair labour times;
• carmakers’ and part manufacturers’ price lists;
• original and alternative parts database;
• customers/suppliers data management;
• management of deadlines (blue label, review, maintenance, gas installations);
• archive of repairs carried out;
• communication with customers;
• other functions (warehouse management, basic accounting, etc.).

Issuing of documents
Whatever the type of document to be issued: receipt, invoice, entrance sheet, estimate, etc., the screen that appears on the monitor is basically the same, subdivided into three areas:
customer and vehicle data at the top, spare parts used in the middle and financial data at the bottom.

Parts Search
Once you select the vehicle brand, model and version, you can use the dynamic databases:

- Times and Prices - times and original spare parts prices with relevant correlations with aftermarket spare parts;
- Fast Moving - database that allows you to find items that are frequently handled;
- Lists - by selecting the carmaker’s or producer’s price list, you can look for an article by CODE or by description;
- Tyres - by entering the tyre CODE or size, the price and inflation pressures will be displayed;
- Stock - you can search for items if they were entered in your stock.

Booking appointments
A diary with daily times used to plan workshop activities also by classifying appointments by type; on the right, you can highlight the vehicles to be delivered to the customers.

- It is equipped with a practical and dynamic system used to search for issued and/or received documents;
- It makes stock browsing easier and faster;
- It can be customized with the addition of the workshop logo to all issued documents;
- It allows you to text messages (SMS) to customers;
- It contains over 450 carmaker and parts manufacturer price lists 700,000 cross references, more than 50,000 after market photos/images and 30,000 items in the tyres price list;

Part number quick search
By typing the part number in the search field, the system displays the component description, price lists and possible matches with alternative product and parts manufacturer.

- It suggests spare parts list by product group (i.e., engine distribution, auxiliary distribution, braking system, etc.) for more than 20,000 applications;
- It is constantly updated (6 times in 12 months);
- It allows you to convert any document into another (i.e. from shipping document to receipt);
- It also allows you to update spare parts price lists through the Internet.

Warehouse management
You can manage your stock by entering items through purchase documents or by entering the item data; the warehouse allows you to subdivide items by group, sub-group or list.
SOFTWARE FOR CAR WORKSHOPS

1st year coupons module

DESCRIPTION
Coupons are present in the module technical information useful in addressing these issues in the car, pictures of components, wiring diagrams, torque and much more. The Coupons module is subdivided into three menus: Coupons, Technical Data and Manuals. Contents of the Coupons module:
  • 50,000 technical data sheets;
  • 30,000 repair sheets;
  • Manufacturer’s operation CODEs;
  • Data sheets for service reset, distribution;
  • 20,000 electrical diagrams.

ACCESSORIES CODE
2nd year coupons module 099992680500

Body shop module license

DESCRIPTION
A specific module for body repairers, with active graphics (exploded view of original cars) intersects with the vehicle database integrate content and retaining the benefits. The database contains:
  • 12,000 vehicles;
  • 3,000,000 alternative part numbers;
  • Cross-section of spare parts;
  • Aggregates management;
  • Calculation of partial damages;
  • Repair labour times;
  • Spare parts photographs;
  • Electronic sending of paperwork;
  • 250 price lists.

ACCESSORIES CODE
12-month fee body module 099992680400

Trucks module license

DESCRIPTION
Maintaining simple use and graphic interface of the automobile database, the Truck section offers a wide range of spare parts for industrial vehicles. The database contains:
  • approximately 6,000 vehicles;
  • 4,000,000 original and alternative part numbers;
  • 1,000,000 alternative part numbers;
  • 230 price lists.

ACCESSORIES CODE
12-month fee Truck module 099992680300
Technical Training

Due to constantly evolving technologies, and specifically the development of electronics in the automotive world, there is an increasing tendency to rely on workshops that belong to a network. This is why Magneti Marelli After Market Parts & Services has set up a network of Authorised Checkstar workshops that believes in professionalism as a trump card in the performance of its activities. To achieve these goals, the Magneti Marelli AMPS Professional Training represents the basic component.

Technical training and vocational training activities are traditional aspects of the Magneti Marelli AMPS policy. In an area that is crucial for the growth and development of the independent repair sector, these aspects take on characteristics of organic nature, wide scope of topics, degree of in-depthness such as to make Training one of the strategic elements that underlie the relationship between the Company and the Network.

Not a new type of training, but certainly an innovative way of training compared to the past. Moreover, a way capable of meeting the growing demand for technological updating from a constantly evolving world of repair work that requires increasingly selected and complex, sophisticated jobs to be carryout on the systems manufactured by the different carmakers.

The new Course programme enhances the professionalism of Workshops from a dual standpoint.
First, in the tradition of Magneti Marelli, its expands the knowledge of strategies related to high-tech automotive systems, by addressing specific topics that meet the growing demand for updates on constantly evolving automotive equipment.
It will also be possible to include updates on Magneti Marelli systems in “technological” Courses: an added plus provided at no extra charge.
Tradition and innovation come together in a training programme that will convey to all participants the need for as well as the pleasure of knowledge. Course participants will also receive an important certificate.
<table>
<thead>
<tr>
<th>Ref.</th>
<th>Type of Course</th>
<th>Monographs News</th>
<th>Course title</th>
<th>Duration (hours)</th>
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<tbody>
<tr>
<td>MM1</td>
<td>Technical Training</td>
<td>New</td>
<td>Monograph Audi A4</td>
<td>8 hours</td>
</tr>
<tr>
<td>MM2</td>
<td>Technical Training</td>
<td>New</td>
<td>Monograph FIAT Freemont</td>
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<td>New</td>
<td>Monograph Renault Scenic III</td>
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<td>M01</td>
<td>Technical Training</td>
<td>Monographs News</td>
<td>Monograph FIAT Grande Punto</td>
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<td>M02</td>
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<td>Monographs</td>
<td>Monograph Citroen C1 - Toyota Aygo - Peugeot 107</td>
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<td>M03</td>
<td>Technical Training</td>
<td>Monographs</td>
<td>Monograph BMW Serie 3 (E 90)</td>
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<tr>
<td>M04</td>
<td>Technical Training</td>
<td>Monographs</td>
<td>Monograph Volkswagen Golf V</td>
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<tr>
<td>M05</td>
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<td>Monographs</td>
<td>Monograph MINI MK1</td>
<td>8 hours</td>
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<tr>
<td>M06</td>
<td>Technical Training</td>
<td>Monographs</td>
<td>Monograph FIAT Panda (Natural Power) e FIAT 500</td>
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<tr>
<td>M07</td>
<td>Technical Training</td>
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<td>Monograph FIAT Bravo (1.4i 16V GPL)</td>
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<tr>
<td>M08</td>
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<td>Monograph Peugeot 207 (1.6i bz-motore BMW-PSA)</td>
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<td>Monograph Opel Astra</td>
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<td>Monograph Volkswagen Golf VI</td>
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<td>B01F</td>
<td>Technical Training 4 hours</td>
<td>Easy</td>
<td>New Fundamentals of Automotive Electronics</td>
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<tr>
<td>B01</td>
<td>Technical Training 4 hours</td>
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<td>Automotive Electronics</td>
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<tr>
<td>B02</td>
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<td>Automotive mechanics</td>
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<tr>
<td>B03</td>
<td>Technical Training 4 hours</td>
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<td>Automotive air conditioning</td>
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<td>B04</td>
<td>Technical Training 4 hours</td>
<td>Easy</td>
<td>Automotive diagnosis</td>
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<td>B05</td>
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<td>Components (Disc Brakes and shock absorbers)</td>
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<td>B06</td>
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<td>Electronic security systems: AirBag, ABS Bosch e Teves</td>
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<td>B07</td>
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<td>New The power supply application with LPG Engine 1.4 Fiat Bravo (Bosch ME 7.3H4)</td>
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<td>B08</td>
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<td>New The power supply CNG Engine application 1.2 Fiat Panda (MM IAW 5AF.PM)</td>
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<td>New Particulate Filter FAP application Engines PSA/Ford</td>
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<td>B10</td>
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<td>New The Filter DPF application Engines Fiat MultiJet</td>
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<td>Technical Training 4 hours</td>
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<td>New Electronic Systems and Security In Body</td>
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<tr>
<td>AP01</td>
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<td>Multijet Common Rail injection for FIAT, Alfa, Lancia e Opel: 1.3 e 1.9 with filter DPF</td>
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<td>Injection Diesel Common Rail Delphi Groups Renault</td>
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<td>AP04</td>
<td>Technical Training</td>
<td>Injection Gasoline cars for Asian - Toyota Yaris 1.0, 1.3 e 1.5 - Daewoo Matiz 0.8 e 1.0</td>
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<td>AP05</td>
<td>Technical Training</td>
<td>Injection Gasoline Magneti Marelli IAW 5 SF3 Groups FIAT e IAW 41V per GroupsVW</td>
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<td>Injection Diesel and Gasoline for Groups VW e Alfa Romeo (FSI e JTS)</td>
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<td>The plants LPG and CNG Automotive (in collaboration with BRC)</td>
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<td>The plant Gas ICOM JTG (in collaboration with ICOM)</td>
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<tr>
<td>SPC1</td>
<td>Technical Training</td>
<td>New Aluminum course: The aluminum in the automotive sector</td>
<td>8 hours</td>
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<td>SPC2</td>
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<td>New During high-strength steels (HSS) in the automotive sector</td>
<td>8 hours</td>
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<td>SPC3</td>
<td>Technical Training</td>
<td>New Course Rating Damage: Assessment and quantification of damage to body</td>
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<td>SPC4</td>
<td>Technical Training</td>
<td>New Course Levabolli: Repair of hail damage</td>
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<tr>
<td>GE01</td>
<td>Education Management</td>
<td>The Client Management</td>
<td>4 hours</td>
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<tr>
<td>GE02</td>
<td>Education Management</td>
<td>The Revision Motor Vehicles (in collaboration with DEKRA)</td>
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<tr>
<td>GE03</td>
<td>Education Management</td>
<td>The Centre Management Audit (in collaboration with DEKRA)</td>
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<td>GE04</td>
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<td>GE05</td>
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<td>PV01</td>
<td>Post Graduate Sale</td>
<td>Database and Website Retis Magneti Marelli</td>
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<tr>
<td></td>
<td>SW for Workshop</td>
<td>TECa Management Software and Assist</td>
<td>8 hours</td>
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</tr>
</tbody>
</table>
The result of years of experience acquired by Magneti Marelli in the field of technical assistance provided to the network of independent automotive workshops, since 1998 Magneti Marelli Help Desk has assisting local operators in solving problems that arise on a daily basis.

Support is provided through the most enhanced VoIP telephone technology, which ensures extremely stable conversations and the capabilities of a system managed through computer technology.

By calling the Help Desk, the user contacts a team of dedicated technicians who are always up-to-date, thanks to Magneti Marelli’s Internal Training.

Operators avail themselves of the best multi-brand technical database through which they obtain information necessary for the analysis of anomalies. Moreover, since it is in contact with most carmakers and due to its role as original equipment (OE) supplier, Magneti Marelli can get a hold of technical information that would otherwise not be available. In other words, the most important technical and technological news go through Magneti Marelli innovation, enabling the company to provide service that is always on the cutting edge. By solving non-recurrent anomalies, operators generate technical documents called “Assistance-info” on a daily basis, and this valuable knowhow represents a significant and one-of-a-kind database. Subscribers can access this database through a search engine on the Magneti Marelli portal, thus facilitating their repair work.

ACCESSORIES
Annual Subscription Help Desk
Annual Subscription Help Desk with ReTiS
Annual Subscription Help Desk with AUTODATA Online 3

Specialized technical support:
• “All Makes” information and technical documentation (electrical diagrams, procedures, etc.).
• System to be diagnosed (engine control, air conditioning, gearbox, in-vehicle information equipment and entertainment, security systems, infotelematics).
• self-diagnosis message/error CODEs decoding
• Troubleshooting guide through a multi-brand diagnostic instrument
• mail service centre with a dedicated e-mail
• direct access to Assistance-info (fast problem solving)

SINCE 1998: TECHNICAL HELP DESK BY VOCATION

The Helpdesk
Warranty terms

LIABILITY
The Customer is responsible for the use of tools and software provided by MAGNETI MARELLI AFTER MARKET PARTS & SERVICES S.P.A (hereinafter referred to as MMAM) and sold by the dealer. The Customer exempts MMAM and the dealer from any liability for potential damage caused by an inappropriate use of products and services sold by the dealer and purchased by the Customer, and as a result of using of those products in a manner inconsistent with recommendations and with an order of operations, as provided for in the software and in the instruction manuals. The Customer should use all the data and information obtained from MMAM or the dealer, directly or through programmes and instruction manuals, knowing that they may not be exhaustive and should be used as a supplement of professional knowledge.

WARRANTY
Upon receipt of the product, the Customer should check whether the product is in an unaffected state, reporting any possible faults or defects within 15 days from the date of activation or delivery specified in the consignment.

TOOLS: The dealer supplies a warranty against faults and manufacturing defects, identified and recognized by the MMAM Service Network within the period of 24 months from the date of sale or product activation. Under this warranty, the authorized service centers shall be under the obligation to restore proper operation of the product, through its replacement or a repair of the defective parts free of charge. The warranty does not cover defects or malfunctions caused by: a) misuse or improper maintenance of the product, and wrong or inappropriate regulation; b) use of software, interface, parts or consumables not provided by the official MMAM retail and service network; c) unauthorized modifications or misuse; d) use of products in the environment, which is not within the parameters specified for the product; e) incorrect preparation or maintenance of the operating environment.

2-year warranty for A/C stations is valid subject to using Magneti Marelli operational liquids.

SOFTWARE/LICENSES: Although MMAM has taken any measures to ensure the accuracy of information contained in or displayed, we do not guarantee that the software or any information contained therein or displayed is not free of errors. The data and material (in various forms) included in programmes or archives, for which the Customer has access, can come from various sources, including, among others: original materials distributed by various manufacturers and materials delivered to MMAM by the companies specializing in the preparation of this type of information. The warranty does not cover any potential problems concerning a conflict of software, if it was installed on a hardware platform other than the manufactured or designated by MMAM (e.g. PC, Laptop, pocket PC, tablet PC). As an example of such a situation, which, however, does not exhaust all possible cases, we can give the problems caused by incompatibility between MMAM programmes and software environments that have inappropriate requirements or are protected by anti-virus systems, preventing their proper installation and correct functioning, the environments damaged by the presence of viruses, the environments supported by inadequate hardware resources.

PLACE OF WARRANTY REPAIR EXECUTION: All repairs under the warranty, subject to other written arrangements or direct arrangements with the service providers, are executed at the MMAM headquarters or in a service center authorized by MMAM.

TRANSPORT: The warranty excludes the damage caused in transit or caused by a break of packaging not properly prepared by the Customer for the parts sent for repair. Unless otherwise agreed in writing, the cost of shipping of the product for repair from the Customer's premises to the service center and/or the costs of delegation of MMAM or Service Centre personnel to the Customer are the Customer's responsibility.

MAINTENANCE: Before the product is sold to the Customer, MMAM and the dealer perform technical acceptance of the product. However, some products require the performance of ordinary maintenance and periodic inspections. The right to warranty service expires if all the periodic inspections provided for in the instruction manual of the product are not performed, particularly in case of air conditioning service stations.