

**MAGNETI  
MARELLI**



**Workshop equipment  
catalogue 2018/2019**

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# Workshop equipment catalogue 2018/2019

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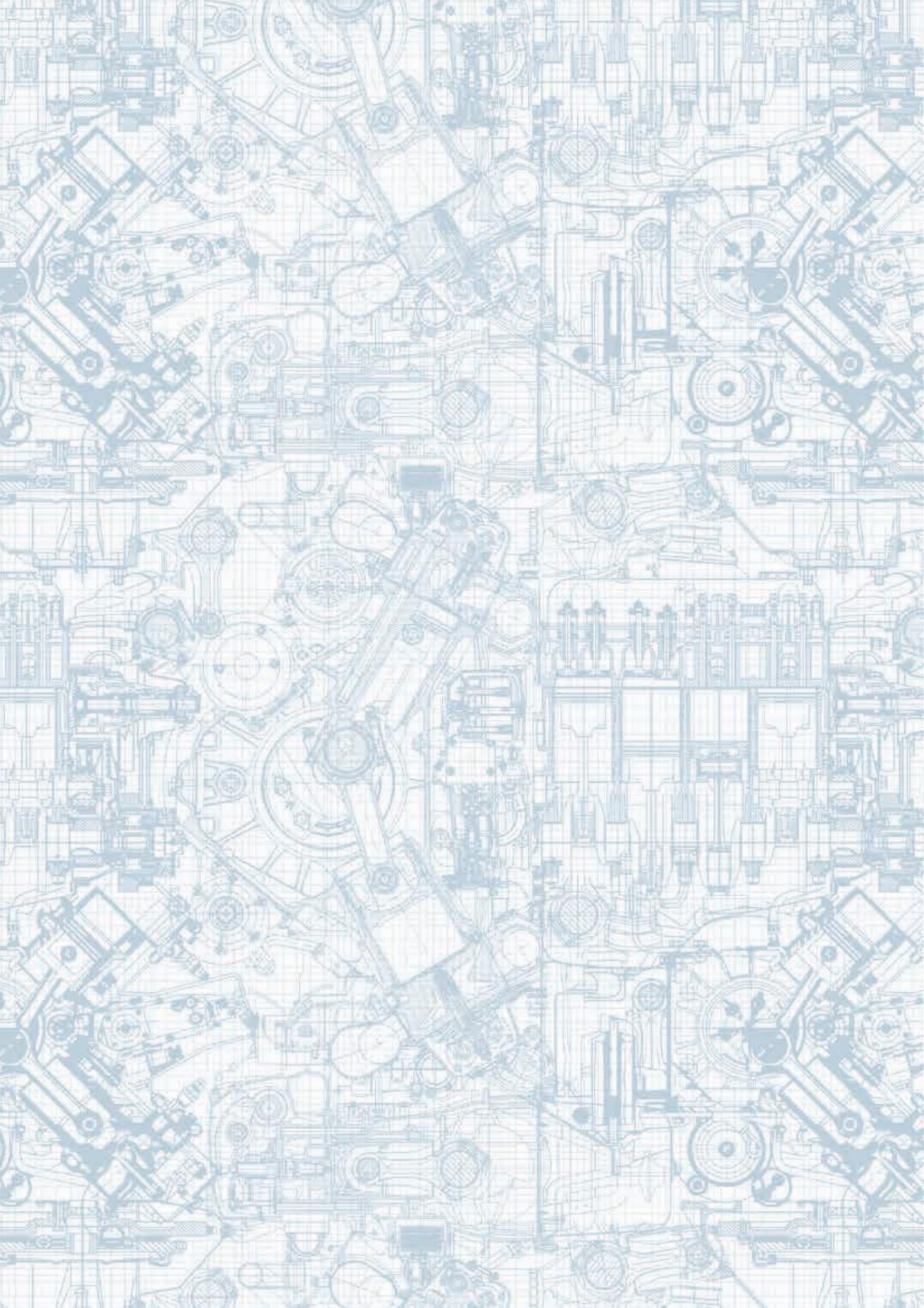
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[www.mmwe.eu](http://www.mmwe.eu)

and check our range of workshop equipment





# DIAGNOSTIC TOOLS



## Tester Flex without licence

007935800080



*Selected by the Chrysler technical academy as the only universal device for diagnostics training at Chrysler in the US.*

### Basic set includes:

- ▶ TESTER FLEX
- ▶ one eobd cable
- ▶ one extension of the eobd cable
- ▶ one power cable to the battery clamps
- ▶ one oscilloscope cable with bnc 4mm, 2.7m, red
- ▶ one oscilloscope cable with bnc 4mm, 2.7m, blue
- ▶ one multimeter cable, black
- ▶ one multimeter cable, red
- ▶ one small clamp, red
- ▶ one small clamp, black
- ▶ one choke 20:
- ▶ one set of needle tip
- ▶ software disc
- ▶ Quick Start Guide
- ▶ bag

### Options:

- ▶ 007935830020 – AC adapter
- ▶ 007935901060 – Hook for attaching in-car tester
- ▶ 007935901070 – Probe for testing coils Flex Tester



### Technical parameters:

- ▶ screen 3"
- ▶ available car / truck / bike software
- ▶ available Magneti Marelli procedures
- ▶ wireless communication
- ▶ Magneti Marelli + plus know how
- ▶ Lightweight and compact design with protective cover anti-slip cushioning surface
- ▶ integrated display for easy operation with the device
- ▶ built-in 2-channel oscilloscope
- ▶ built-in multimeter
- ▶ connection via USB or wireless by bluetooth
- ▶ set of software, wires and accessory for oscilloscope use

### Special features:

- ▶ OK, Plus Magneti Marelli Know-how, Easy Fix and Easy Scope functions
- ▶ Innovative integrated tester with serial diagnostics, multimeter and Oscilloscope in common housing
- ▶ test drive registration function of the vehicle
- ▶ full description of the behavior of the vehicle saved in the tester
- ▶ possibility of revision of previously registered tests

### Advanced feature:

- ▶ full diagnostics: parameters, states, error codes, activation, component coding, technical diagrams, reports, logging test run



Watch the movie on:  
**YouTube**

### ACCESSORIES



#### The kit for the current analysis includes: 007935901080

- ▶ 1 measuring terminal 20/60A
- ▶ 1 measuring terminal 600A
- ▶ 1 fuse test adapter 308B
- ▶ 1 fuse test adapter 307C
- ▶ 2 battery terminals



#### Set of special probes for FLEX: 007935901090

- ▶ 1 black needle lead
- ▶ 1 red wire completed needle
- ▶ 1 small red claw-crocodile clip
- ▶ 1 small black crocodile clip
- ▶ 1 choke 20: 1
- ▶ 1 big red crocodile clip
- ▶ 1 big black crocodile clip
- ▶ 1 universal cables 1.5mm
- ▶ 1 universal cables 2.3mm

#### Probe to connect to tester Flex

007935901110



## Tester Logic without licence

007935800010



Magneti Marelli Logic - an interface that enables testing of PC-based 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.

The price of Magneti Marelli Smart and Logic devices includes an annual subscription, activated from the moment the device runs for the first time.

### Magneti Marelli Logic:

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

### Technical parameters:

- ▶ Processor, memory: Fujitsu MB96F543 + Altera EPM77128SQ, 128kB RAM
- ▶ Communication protocols: ISO9141, ISO14230, J1850PWM, J1850VPW, ISO15765, RS485, CAN C, J2411 Euro 4/5
- ▶ Supply voltage: 8 – 36V
- ▶ Multiplexer: 13 x 2 canals, build-in
- ▶ Communication with a PC: Bluetooth, USB

### ACCESSORIES

#### USB Cable For Logic

007935830180





007935800170

**Flexstar is a modern diagnostic and informative platform, which combines Diagnostic Flex tester software with technical database and service platform for end- users.**

Allows for integrated workshop management, searching for technical data and information and diagnostics. Allows you to select a vehicle based on brand / model selection as well as search by VIN code, registration number or engine code. Deep error code analysis combined with a possibility to view electrical diagrams and oscilloscope diagnostics allows approaching repairs of components in a comprehensive and

fast Navigation in the program with a user-friendly graphical interface both in diagnostic part and dedicated to search of spare parts, based on data from more than 540 component manufacturers. Flexstar allows for quick scan of DTC codes, their analysis and automatic move to the database of spare parts necessary for repair and removal of faults, man-hours. Then it allows printing a bill of sale or invoice.



Watch the movie on:  
**You Tube**

### Vehicle selection

Selection of vehicle brand and model in a fast way based on VIN no. or vehicle registration number.



### VIN scanning

This function allows you to recognize and locate the vehicle and then diagnose it based on the VIN code.

### Integrated Databases

The menu allows getting additional information about parts, services and technical information.

### Vehicle diagnostics

We can quickly run diagnostics of any vehicle control module.

### Error analysis

The program provides in-depth error analysis along with technical information on how to solve them.

### Spare parts search

If a fault occurs in a vehicle, you can access the most popular spare parts list including information about replacements and their price. Magneti Marelli spare parts are also available in the database, highlighted on the display, such as drawings, images and technical specifications.

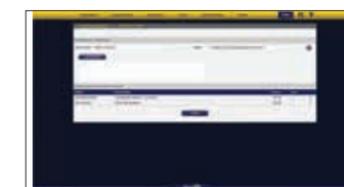
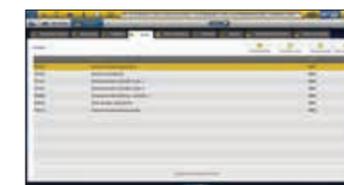
### Find parts in the graphic navigation

Through an error code we have access to the unique spare parts database associated with the fault code where we can see, and verify technical parameters of the part.

### Invoices / Accounts

The program allows you to create and print a confirmation, a bill or an invoice for the end customer.

### Ordering parts



# Visionstar

007935800180

**Visionstar is a modern diagnostic and informative platform, which combines Diagnostic VISION PRO tester software with technical database and service platform for end-users.**

Allows for integrated workshop management, searching for technical data and information and diagnostics. Allows you to select a vehicle based on brand / model selection as well as search by VIN code, registration number or engine code. Deep error code analysis combined with a possibility to view electrical diagrams and oscilloscope

diagnostics allows approaching repairs of components in a comprehensive and fast Navigation in the program with a user-friendly graphical interface both in diagnostic part and dedicated to search of spare parts, based on data from more than 540 component manufacturers.

Visionstar allows for quick scan of DTC codes, their analysis and automatic move to the database of spare parts necessary for repair and removal of faults, man-hours. Then it allows printing a bill of sale or invoice.

## Vehicle selection

Selection of vehicle brand and model in a fast way based on VIN no. or vehicle registration number.



## VIN scanning

This function allows you to recognize and locate the vehicle and then diagnose it based on the VIN code.

## Integrated Databases

The menu allows getting additional information about parts, services and technical information.

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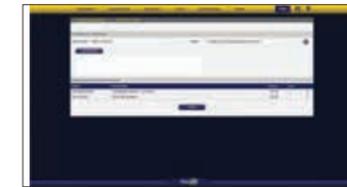
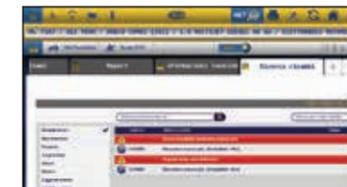
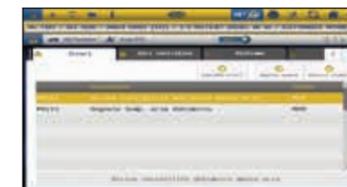
## Find parts in the graphic navigation

Through an error code we have access to the unique spare parts database associated with the fault code where we can see, and verify technical parameters of the part.

## Invoices / Accounts

The program allows you to create and print a confirmation, a bill or an invoice for the end customer.

## Ordering parts



# VISION PRO

without license  
007935800020



## VISION PRO

- ▶ Shock-resistant construction, with additional rubber protection
- ▶ 8" diagonal touch screen: resolution 1024x768, display of 1000 cd/m<sup>2</sup>
- ▶ Internal 8 GB system memory upgradeable via WiFi
- ▶ 5 Mpixel rear camera
- ▶ Internal battery charge via OBDII diagnostic connector and through a power supply adapter
- ▶ Integrated wireless communication module
- ▶ Supported protocols: KL-ISO9141, ISO14230-K, J1850 VPW, J1850 PMW, CAN (Lo/Hi-Speed), RS485, ISO15765, SAE J2610, ISO11992, SAE J2411, SAE J1939, ISO 11992, RS232, J2534-3
- ▶ Oscilloscope: 2 channels, sampling 100 MS/s,
- ▶ Multimeter: display resolution 16 bit, electrical isolation of multimeter/oscilloscope
- ▶ Available diagnostics CAR / TRUCK / BIKE
- ▶ Built-in Magneti Marelli procedures
- ▶ The possibility of wireless communication
- ▶ Annual subscription included



Watch the movie on:  
**YouTube**

### 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
- ▶ 2-channel oscilloscope with graphical results presentation
- ▶ A readable LCD display for a clear analysis of diagnosis results
- ▶ Wireless Bluetooth connection for communication and remote diagnostics from a computer
- ▶ Integrated Diagnostics/Oscilloscope/ Technica 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



### Oscilloscope parameters:

SOFTWARE	OSCILLOSCOPE
Mathematical functions	Reciproca, CH1+CH2, CH1-CH2, CH1xCH2, CH1/CH2
Zoom (10,000 point)	Maximum, minimum, own measurement
Real time	Maximum, minimum, period, frequency, DC average, Full cycle, peak-to-peak voltage, AC RMS; falling time, rising time; High Pulse, Low Pulse, real RMS
Component analysis	Easy Scope includes: technical details, a manual how to check specific components, automatic oscilloscope settings
Indications	Time, amplitude, time and amplitude
Functions	FFT Functions, binary CAN signal analysis
RAM buffer for recording measurements	Permanent saving of the displayed window in internal RAM
Logger	Saves the test log in the device memory
Recording and recalling	Saves the oscilloscope and multimeter indications Possibility to recall records for comparison

### ACCESSORIES

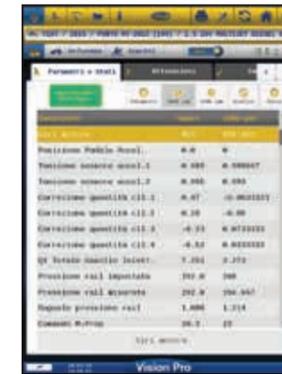
**The kit for the current analysis includes:**  
007935901080

- ▶ 1 measuring terminal 20/60A
- ▶ 1 measuring terminal 600A
- ▶ 1 fuse test adapter 307C
- ▶ 1 fuse test adapter 308B
- ▶ 2 battery terminals

**Set of special probes for VISION PRO:**  
007935901090

- ▶ 1 black needle lead
- ▶ 1 red wire completed needle
- ▶ 1 small red claw-crocodile clip
- ▶ 1 small black crocodile clip
- ▶ 1 choke 20: 1
- ▶ 1 big red crocodile clip
- ▶ 1 big black crocodile clip
- ▶ 1 universal cables 1.5mm
- ▶ 1 universal cables 2.3mm

### + Plus



The program allows you to view live reference parameters with the reading of current parameters enabled.

### Scan DTC



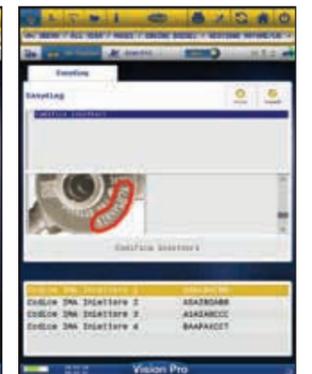
Scanning the whole vehicle and all its control units together with the possibility of quick troubleshooting.

### OK function



It allows direct selection of functions to be performed, without knowing how many and which control units will participate in the selected process. Represents a DIAGNOSTIC PHILOSOPHY FOR EVERYBODY, SIMPLE, SAFE AND ACCURATE. Ensures fast interaction with the system, even for non-expert users.

### Easy Diag



By selecting a component and clicking "Connection and electrical board" we will automatically receive technical information about the selected element.

- Select the correct one from the list of tests and press "Perform test" and all diagnostic parameters will be automatically set for the test. The results will be displayed on the same page.

Purpose:

- For quick identification of the source of the fault.
- To avoid unnecessary replacement of good components.

### Easy Scope



A useful function that contains standard oscilloscope waveforms for selected components and sensors - diagnosing with an oscilloscope has never been so easy.

### TPMS



Possibility of connect to a TPMS control unit for its configuration or to assign new sensor codes.

### Engine number scanning



This function allows you to recognize and locate the vehicle and then diagnose it based on the engine number.

### ECU scanning



The software automatically identifies and recognizes an ECU that can be mounted in the vehicle to avoid problems with incorrect displaying of parameters or errors.

# TPMS Connect EVO

007935900385

The TPMS Connect Evo Tester is a pressure measurement, testing and coding device for wireless tire pressure control systems.



### TPMS CONNECT:

- ▶ The vehicle testing function allows for checking sensors and sensor batteries for proper operation when accepting a vehicle for servicing (prior to making any interventions)
- ▶ Identification of ID sensors without disassembling them
- ▶ It allows for checking functioning of the TPMS system and pressure in tyres upon completion of service activities
- ▶ It allows for verifying errors and reasons for possible lighting of the TPMS indicator on the dashboard
- ▶ Wireless measurement of temperature and pressure in tyres
- ▶ It facilitates car servicing activities related to wheels and the TPMS system through indicating the torque for tightening the sensor to the wheel and valves
- ▶ A reprogramming set allows for programming sensors in vehicles through a diagnostic outlet.



### FROM 2012, THE TPMS SYSTEM IS OBLIGATORY IN NEW HOMOLOGATED VEHICLES

#### Features:

- ▶ **VEHICLE ACCEPTANCE:** The vehicle testing function allows for checking sensors and sensor batteries for proper operation when accepting a vehicle for servicing (prior to making any interventions - it allows to record and print out test reports for customers (through the PC).
- ▶ **REPAIR:** It facilitates car servicing activities related to wheels and the TPMS system through indicating the torque for tightening the sensor to the wheel and valves, pressure in tyres and pressure sensor codes for spare part replacement.
- ▶ **VEHICLE RELEASE:** It allows for checking functioning of the TPMS system and pressure in tyres upon completion of service activities. By connecting the TPMS tester to the PC, a complete report from the test conducted can be printed out.

#### Supported car brands:

**Cars:** Acura, Alfa Romeo, 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.  
**Trucks:** Renault, Man, Mercedes-Benz.  
**Motocycle:** BMW- Motorrad.

ACCESSORIES
▶ 007935910260 TPMS Connect Evo – License
▶ 007935910255 Subscription Tps Evo
▶ 007935900395 Kit OBD for TPMS Evo
▶ 007935910270 TPMS Connect Evo Obd - License
▶ 007935910245 Subscription Tps KIT OBD

UNIVERSAL SENSORS	
	
▶ 007935340000 Sensor TPMS EZ 2.0 Rubber for steel rims	▶ 007935340010 Sensor TPMS EZ 2.0 Aluminium for alloy rims with regulated angle 0-40 degrees



### Software PC

Through dedicated software, you can: update your product, manage the customer database and store your activities.



Watch the  
movie on:



# OBD Road

007935800050

▶ Dimensions: 43,50 x 22,50 x 25,15 mm  
▶ Weigh: 20g  
▶ Operating temperature: -40°C a +85°C.



### EOBD parameter and error logger

#### OBD - Road

- ▶ 4 Mb internal memory for data recording
- ▶ Possibility to save 8 parameters of 5 second sampling times for a period of 170 hours
- ▶ Two-color LED diode (red/green) for signaling of the device status
- ▶ Communication protocols: SAEJ1850VPW, SAEJ1850PWM, ISO 9141, ISO 14230, ISO 11898 CAN
- ▶ 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

#### Functions:

- ▶ 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
- ▶ ECO-DRIVE function for proper driving style management



Accessories and parts for testers	Flex	Vision	Logic
007935900440 - DM01 Adapter cable	✓	✓	✓
007935900450 - DM02 - Adapter For Tester Tech/Texa Car	✓	✓	✓
007935900460 - DM03 Adapter For Tester Tech Truck	✓	✓	✓
007935911540 - DM04 Adapter For Brain Bee	✓	✓	✓
007935911530 - DM05 Adapter For Protec	✓	✓	✓
007935911900 - DM06 Adapter For Motorscan	✓	✓	✓
007935911910 - DM07 Adapter For Spx	✓	✓	✓
007935901080 - Amperometric clamps for oscilloscope in FLEX	✓	✓	
007935901100 - Docking Station For Tester Flex	✓		
007950006420 - Bluetooth	✓	✓	✓
007935830020 - Power supply	✓	✓	✓
007935900550 - 641 Diagnostic Cable EOBD	✓	✓	✓
007935830180 - USB Cable For Logic			✓
007935830185 - USB/ST Cable for HW9			✓
007935800040 - Docking Station - For Vision Only		✓	
007935912010 - SD 16GB card		✓	
007935912000 - SD Card For Magneti Marelli Smart			

## License for CARS

007935800100

Car license developed in a comprehensive way allows full access to all diagnosis of the following categories of vehicle:

- ▶ Personal cars
- ▶ Light commercial vehicles
- ▶ Pickup trucks

▶ 007935910000  
Subscription Sw Car



▲ European Car Cable Kit

▲ Asian Car Cable Kit

### European Car Cable Kit

007935900390

Diagnostic Cable. FORD	007935900490
Diagnostic Cable. RENAULT	007935900530
Diagnostic Cable. PSA (30 pin)	007935900560
Diagnostic Cable. MERCEDES	007935900590
Diagnostic Cable. IVECO Daily	007935900620
Power Supply Cable - Battery	007935900470
Diagnostic Cable. OPEL	007935900520
Diagnostic Cable. PSA (2 pin)	007935900540
Diagnostic Cable. BMW	007935900570
Diagnostic Cable. SPRINTER / LT	007935900610
Diagnostic Cable. FIAT	007935900510

### Asian Car Cable Kit

007935900400

Diagnostic Cable. DAEWOO	007935900600
Diagnostic Cable. HYUNDAI / MITSUBISHI	007935900630
Przewód diagn. NISSAN	007935900640
Diagnostic Cable. TOYOTA	007935900670
Diagnostic Cable. SUZUKI 4-6 vie	007935900690
Diagnostic Cable. SUZUKI 0-7	007935900840
Diagnostic Cable. KIA	007935900650
Diagnostic Cable. HONDA	007935900680
Diagnostic Cable. SUBARU	007935900700
Power Supply Cable - Battery	007935900470

## License for TRUCKS

007935800130

SYSTEM ENABLES FULL DIAGNOSTICS OF TRUCK SYSTEMS, ACTUAL PARAMETERS READOUT, FAULT CODES READOUT, ACTIVATION OF ACTUATING ELEMENTS, INJECTOR TESTING.:

- ▶ Trucks, trailers, semitrailers
- ▶ Light commercial vehicles
- ▶ Buses

▶ 007935910030  
Subscription Sw Truck



▲ Bus Car Cable Kit

▲ Truck Cable Kit

### Truck Cable Kit

007935900420

700 Diagnostic Cable. RENAULT	007935900810
651 Diagnostic Cablen. IVECO	007935900620
671 Diagnostic Cablen. VOLVO	007935900730
674 Diagnostic Cable. MAN Truck	007935900760
607 Diagnostic Cablen. FIAT	007935900510
547 Power Supply Cable - Battery	007935900470

650 Diagnostic Cable. MERCEDES	007935900610
670 Diagnostic Cable. SCANIA / DAF	007935900720
678 Diagnostic Cable. MAN Truck 2	007935900770
646 Diagnostic cable extension - 3m	007935900580
673 Diagnostic Cable. IVECO (30 pin)	007935900750

### Trailer Cable Kit

007935900430

672 Diagnostic Cable. WABCO-KNORR	007935900740
681 Diagnostic Cable. HALDEX EB+	007935900790

684 Diagnostic Cable. HALDEX ABS	007935900800
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## License for BIKES

007935800140

SYSTEM ENABLES FULL DIAGNOSTICS OF MOTORCYCLES

▶ 007935910040  
Subscription Sw Bike



▲ Motorcycles Cable Kit

### Motorcycles Cable Kit

007935900410

600 - Universal Diagnostic Cable	007935900480
PFM003 - Diagnostic Cable Kawasaki ('03-'06)	007935900820
PFM005 Diagnostic Cable. HARLEY DAVIDSON	007935900900
PFM009 Diagnostic Cable. BMW 2	007935900920
PFM010 Diagnostic Cable. HONDA (06-)	007935900850
PFM011 Diagnostic cable SUZUKI	007935900840
PFM012 Diagnostic Cable. KAWASAKI (07-)	007935900830

PFM006 Diagnostic Cable. BMW 1	007935900860
PFM007 Diagnostic Cable. HONDA 3pin	007935900870
PFM008 - Diagnostic Cable. HONDA	007935900930
PFM015 Diagnostic Cable. DUCATI (08-)	007935900950
PFM013 Diagnostic cable KTM	007935900940
S607 - Diagnostic Cable. GUZZI / DUCATI / PIAGGIO	007935900510

## Service &amp; Repair

009999269500


**The base provides a wide range of information about:**

- ▶ Diagnostics
- ▶ Maintenance
- ▶ Repairs for workshops

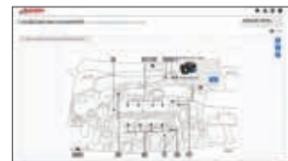
**Also:**

- ▶ More than 14000 models in the database
- ▶ Parameters directly from manufacturers
- ▶ Access to all databases of update data
- ▶ Cost calculator
- ▶ Assignment of elements
- ▶ Interactive connection diagrams
- ▶ Easy to move between works
- ▶ Quick fault code search
- ▶ Access from several devices

A range of materials and instructions together with drawings provides comprehensive support for vehicle mechanics of any type and avoids potential errors in providing services in the field of automotive technology.



Service drawings



Driver search engine



Cable diagrams



Symbols of lights

**Technical information leader**

Autodata, founded in 1975, is the world's leading provider of technical information on the aftermarket. Our mission is "to be the most innovative, accurate and respected supplier of technical information on the aftermarket". To achieve this, the basis of our philosophy is a continuous involvement in innovative solutions that allow for creation universal products that we design in response to our customers' needs. We are able to achieve this with our highly qualified 180 experienced staff in seven countries in the world. Most of them are directly involved in product development.

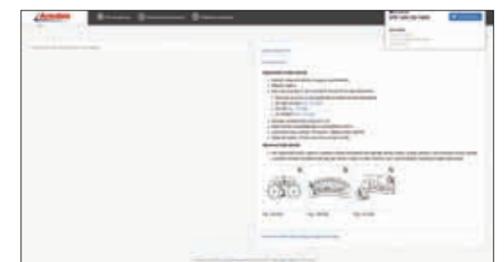
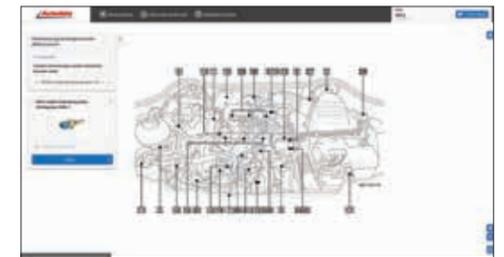
- ▶ We create products that are used in workshops during repair and service of vehicles. Our database, including over 29,000 models from around the world, obtained direct license from more than 80 car manufacturers.
- ▶ The information we provide is the result of a study by our specialists with experience in the automotive industry, perfectly understand the functioning of vehicles and the way in which technical information is applied in a modern car workshop.
- ▶ This information is edited by us in such a way that it retains the same style and format, so you do not need extra interpretation when the work is done on models of different manufacturers. Our internal team of computer graphics creates detailed supportive illustrations that complement the technical specifications and they enhance the user's experience.
- ▶ This joint effort allows us to create information that is relevant, timely, comprehensive and of the highest quality. The result is an interactive and friendly system that covers all the latest technologies.


**Timing belt replacement**

Precise information on tightening and handling.

**Types of licenses:**

- ▶ 009999269500 Autodata Online 3 "Service & Repair"-yearly licence for 1 stand
- ▶ 009999269502 Autodata Online 3 "Service & Repair"-yearly licence for 2 stands
- ▶ 009999269505 Autodata Online 3 "Service & Repair"-yearly licence for 5 stands
- ▶ 009999269501 Autodata Online 3 "Service & Repair"-yearly renewal for 1 stand
- ▶ 009999269503 Autodata Online 3 "Service & Repair"-yearly renewal for 2 stands
- ▶ 009999269506 Autodata Online 3 "Service & Repair"-yearly renewal for 5 stands
- ▶ 009999269600 Autodata Online 2 "Service & Maintenance"-yearly licence for 1 stand
- ▶ 009999269602 Autodata Online 2 "Service & Maintenance"-yearly licence for 2 stands
- ▶ 009999269605 Autodata Online 2 "Service & Maintenance"-yearly licence for 5 stands
- ▶ 009999269601 Autodata Online 2 "Service & Maintenance"-yearly renewal for 1 stand
- ▶ 009999269603 Autodata Online 2 "Service & Maintenance"-yearly renewal for 2 stands
- ▶ 009999269606 Autodata Online 2 "Service & Maintenance"-yearly renewal for 5 stands
- ▶ 009999269512 Autodata Online "Motorcycles" -yearly licence for 1 stand
- ▶ 009999269513 Autodata Online "Motorcycles" -yearly licence for 2 stands
- ▶ 009999269514 Autodata Online "Motorcycles" -yearly licence for 5 stands
- ▶ 009999269511 Autodata Online "Motorcycles" -yearly renewal for 1 stand
- ▶ 009999269515 Autodata Online "Motorcycles" -yearly renewal for 2 stand
- ▶ 009999269516 Autodata Online "Motorcycles" -yearly renewal for 5 stand





**Software for car workshops**

ALSO AVAILABLE TRUCK VERSION

## ReTIS

099992670300

Retis On Line Workshop  
Software Yearly Licence 12 Months

## ReTIS Truck

099992670405

Retis Truck-Truck Software  
12 Months Licence On-Line



### Repairing Technical Information System

Currently, in order to fulfill the needs of a professional car workshop, technical documentation provided in a printed form is not sufficient. To meet the customers' expectations, Magneti Marelli have created the ReTIS programme - an effective instrument for fast technical consultation in all operating car parks. New content, further adapted to the current needs, and renewed graphics make the programme even more user friendly.

Retis system is a large database that includes technical information concerning passenger cars and trucks, with petrol and diesel engines. The programme is available on a CD or in the form of an On-Line access. Programme license is issued in the form of an annual subscription, thanks to which free updates are available to the customers. 099992670400 (On-line)

### ETIS 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.

#### Elektronics - 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.

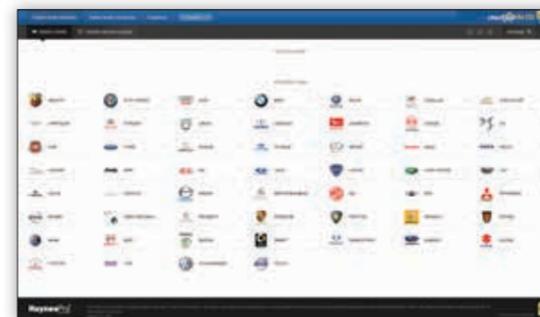
#### Adjustment data

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

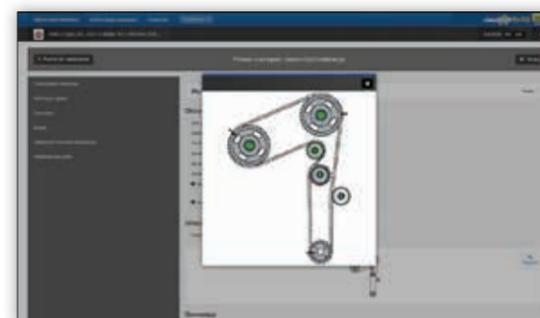
#### External part / interior

- ▶ 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.

**Magneti Marelli is the official distributor of Hynes Pro. The Retis Online program is one of the most modern.**



There are four groups of information assigned to each car brand and model: The list includes repair time norms, regulatory data, and timing information. Periodic maintenance including: inspection schedules, reset of the inspection index, procedures and forms of periodic service. The repair data is divided into the following subcategories: engine, transmission, steering and suspension, brakes as well as internal and external parts. The electronics include: engine, steering and suspension, brakes, internal and external parts, fuses and relays, locations, electronic procedures, controls and indicators. In addition, the program can be expanded with the SmartPACK™ module containing SmartFIX™ and SmartCASE™.



#### SmartFIX

This is a useful database containing information about maintenance activities as recommended by car manufacturers for a specific mileage. The module contains checklists with subassemblies of the car which should be inspected and which should be replaced. The time standards are given for all service activities.

#### SmartCASE™

This is a database containing unique technical information based on the experience of workshops in the area of solving problems that you encountered during your work with cars. The module allows for quick identification of the problem, describes possible reasons for its creation and suggests possible solutions. Each case contains a description of the problem, the reason for his decision and ready-to-use solutions. We can find faults according to: the error code, the area of the vehicle in which it occurred, the sound it generates, the description of the symptom and the conditions in which it arises.



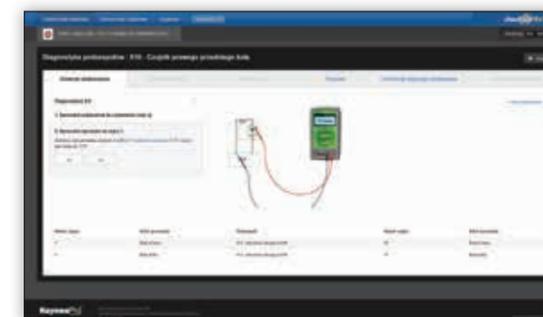
Retis is a powerful and fast tool containing technical and diagnostic information about repair procedures. Retis is available as a one-year license allowing you to work on 4 independent positions.

RETIS contains technical information about European and Asian cars, such as:

- Car identification
- Location of identification plates
- List of maintenance activities with appropriate lubricants and fluids
- Motor adjustment data
- Assembly diagram and location drawings of drive belts
- Data on ecological requirements and exhaust emissions
- Technical drawings of car subassemblies
- Diagrams and information on the engine units of European and Asian cars.
- An interactive exhaust test
- Inspection data (FID)
- Complete repair schedules
- Electrical wiring of the installation
- Electrical diagrams of air conditioning installations
- Explanation of EOBD codes



The VESA™ module (Vehicle Electronics Smart Assistant) is a tool for correct diagnostics of vehicle electronics. Using the error codes read by the diagnostic tester allows faster and more precise finding of the fault. The module conducts the mechanics step by step on the principle of „yes“ and „no“ questions, showing only a part of the whole scheme, focusing on selected elements of the whole, showing the interdependence between elements of the entire system such as sensors, controllers, etc.



NEW

# Digital lightning alignment device PREMIUM

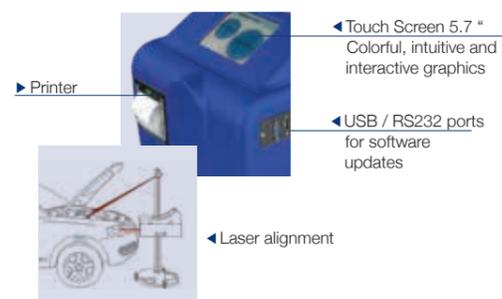
007935902020

An electronic device for controlling the setting of lights, equipped with a camera for full analysis of each type of lights in each type of car.



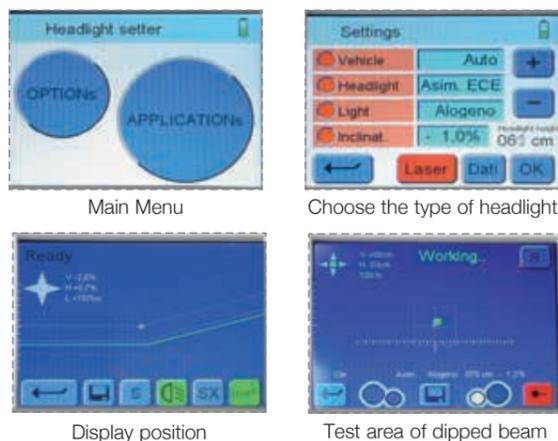
### Technical data:

- ▶ Proven and easy positioning method with respect to the vehicle: by using a broadband laser beam, optionally the device can be equipped with laser positioning of the center of the headlight (cross laser)
- ▶ Trolley on wheels with the possibility to adjust the optimal poziomu level required during the test (level in the head)
- ▶ The column is equipped with a balanced system to facilitate the movement of the optical box
- ▶ The plastic injection molded box contains a 230 mm diameter glass lens. The design features allow for control of a deviation from the mechanical position of the light beam by 1 cm / 10 m.
- ▶ Optical box is equipped with RS232 connector and USB input
- ▶ Equipped with printer and touch screen
- ▶ Connect the instrument to a computer and record the result and print the report
- ▶ The user can change the tolerance ranges of the performance evaluation



### Camera Software Specification:

- ▶ Full measurement of the parameters of all types of lights, including: xenon, led, halogen and conventional, with parabolic, multi-parabolic, projector, diffusion glass, with smooth glass, equipped in AFS and bi-xenon systems.
- ▶ Type of lights: European (right-hand / left-hand traffic), the USA, Japan
- ▶ 6 languages available: Italian, English, German, French, Portuguese and Spanish
- ▶ Available communication protocols: Net1, Net2, Giagnet, for installation on request
- ▶ Software update: using USB, connection 232 connection RS232



Workshop equipment  
DIAGNOSTIC TOOLS



### ACCESSORIES

- ▶ 007935902050 Set of rails for building-in
- ▶ 007935902055 Set of rails
- ▶ 007935902060 Height sensor

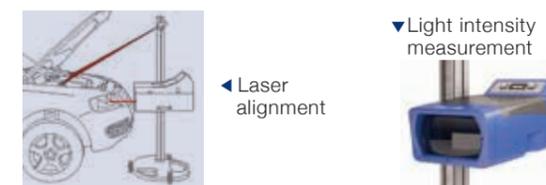
NEW

# Lightning alignment device SMART with digital measurement 007935902010

A mechanical device for controlling the lighting alignment with a digital luxemeter.

### Technical data:

- ▶ Column equipped with counterweight, the operator can move the optical box in two directions, slightly touching it
- ▶ The plastic injection molded box contains a 230 mm diameter glass lens: the structural features allow for control of the deviation from the mechanical light beam position 1 cm / 10 m
- ▶ The aluminum and steel alloy base has 3 adjustable wheels for perfect positioning of the machine against the floor
- ▶ Measurement of alignment of dimmed headlights, road and fog lights
- ▶ Measurement of the dimmed headlights and road lights
- ▶ Measurement of the luminance flux in the horizontal plane Precision lens positioning system based on 8 bearings for quick measurement digital display showing the direct result of light beam in kilocandelach [kcd]
- ▶ Possibility of alignment of the light intensity by means of the knob in the range from 0 - 4%
- ▶ Easy and fast measured parameter readings



### ACCESSORIES

- ▶ 007935902050 Set of mounting rails
- ▶ 007935902055 Set of rails

# Analog lightning alignment device LOGIC

007935902030

A mechanical device for controlling the setting of lights. This type of tool is designed for professional and efficient control and setting of lights in any type of vehicle. The instrument is simple and intuitive to use. It allows for comfort and at the same time for professional use in car workshops, while servicing and maintenance of vehicle lighting. Our device consists of a measuring head in the form of a head equipped with an intelligent lens in the front, while in the back part you can observe the results on the mounted screen. In addition, the device is equipped with a mirror to assist in the measurement of lighting.

The components of the device are made of alloys so that the measurements are of the highest precision and at the same time ensure the safety of use and resistance to the conditions in the car workshop.

The screen in the device is used for precise positioning the device, adjusting the position to the location of the vehicle.



## Master Alt

007935063030



### The device can be used to diagnose the charging circuit in cars with:

- alternator charge current provided by the ECU
- control standards COM - LIN, BSS (BSD), SIG, P-D, L-RVC, RLO
- generates currents resembling the actual conditions
- to test the alternators installed in vehicles



#### General characteristics:

The device can be used to diagnose the charging circuit in cars with alternator charge current provided by the ECU. The device generates currents resembling the actual conditions for the voltage regulators in the car. The device is designed to test the alternators installed in vehicles or on testing tables as well as the regulators alone – with a standard testing device. The device can provide the information on whether the voltage regulator can correctly communicate with the car's ECU and if it responds to required parameters ap

#### Compatible control standards:

- ▶ COM – interfejsy LIN, BSS (BSD)
- ▶ SIG – FORD
- ▶ P-D – Mazda
- ▶ L-RVC – GM
- ▶ RLO – Toyota



Watch film on:  
**YouTube**

#### Device operation

The test subject selection menu will appear. Select the required parameter the up and down arrow keys and press OK what moves in the test mode. After pressing the knob, the display will present the following information:

- ▶ voltage of the tested circuit (large digits)
- ▶ required voltage (small digits on the top of the display)
- ▶ alternator load DF/DFM [%].

## Alt Diag Pro - alternator bench

007935063050

The Alt Diag Pro is a test bench that allows you to check the alternator or starter performance. This device evaluates the measurement results helping to diagnose damaged system components that may occur in particular test assemblies of the alternator or starter. Our test bench is mainly used for testing alternators of 12V and currents up to 300A and alternators of 24V and currents up to 150A as well as for testing starters with similar parameters.



Load up to 300A

#### Supported interfaces for communication with the alternator:

- ▶ COM (LIN, BSS),
- ▶ C,
- ▶ SIG,
- ▶ RLO,
- ▶ L-RVC
- ▶ LAMP.

#### The following types of automated automaticznych testów alternatora należą:

- 1) Standard, which allows to record the maximum current under load, not exceeding the determined value during the test.
- 2) Efficiency, which give the maximum load current without imposing any restrictions, checking the alternator under load under extreme conditions.

#### Parameters of use:

- ▶ Electric power supply - 400V with a frequency of 50Hz at rated current 16A in a system with 3P + N + PE leads. 3.3
- ▶ Compressed air supply via pneumatic 1/2" coupling, ensures proper and secure tension of the V-belt.
- ▶ Touch screen that allows, among others, changes in configuration and position settings while also providing comfortable control conditions and clarity of displayed information and messages along with parameter under analysis.

#### Parameters that can be measured and analyzed by a user:

- ▶ maximum power of the starter,
- ▶ maximum starter current (starting current),
- ▶ average starting voltage
- ▶ average starting current



#### Parameters to be analyzed by Alt Diag Pro bench:

- ▶ graph of current ripple,
- ▶ maximum alternator current,
- ▶ alternator leakage current,
- ▶ Voltage Set Point,
- ▶ Turn On Speed,
- ▶ DFM value,
- ▶ performance curve,
- ▶ maximum power of the alternator,
- ▶ WINDING value.

#### Alt Diag Pro features:

- ▶ Compact size 80 [cm] x 70 [cm] x 110 [cm]
- ▶ Possibility of testing alternators with interfaces: LIN, BSS, SIG, RLO, RVC, C
- ▶ DFM signal reading (M, FR, DF, LI, F)
- ▶ 8.5 hp engine
- ▶ Operation of 12 and 24 V alternators and starters
- ▶ Maximum alternator load 300 A
- ▶ Built-in oscilloscope for measuring ripple current
- ▶ Detect damaged diodes and stators
- ▶ Possibility to run fully automated test for alternators
- ▶ Basic diagnostic function of the starter
- ▶ Pneumatic belt tension of alternator
- ▶ Includes plugs and adapters for fixing different types of alternators
- ▶ Industrial touch screen (possibility to work wearing gloves)
- ▶ Automatic test results recording
- ▶ Possibility to print the test run
- ▶ Wide alternator base
- ▶ Option to update the table via USB

## Hybrid Starter

007936311000  
12V 4500A

007936311010  
12/24V 12000 / 6000A

### Emergency booster start "Hybrid Starter" 12-24 V

Magneti Marelli enriches its offer with the latest emergency vehicle engine starting solution.



007936311000



007936311010

Hybrid Starter is not a common booster usually encountered on the market. The patented hybrid technology which enables recovery of residual energy stored in the car electrical system, which enables effective momentary increase of starting current and helps to start the engine. The maximum momentous starting current is as high as 4,500A. The hybrid design allows for a structure without a starting battery inside, which reduces the weight effectively and helps to avoid problems with periodical charging.

- ▶ Voltage 12V
- ▶ Starting current 4500A
- ▶ Life (\*) 1.000.000 cycles
- ▶ First charging 30min, power supply unit included
- ▶ Charging duration 5 min
- ▶ Quick charging (\*\*) 15-60 sec
- ▶ Charger
- ▶ Charging voltage 230V AC
- ▶ Charging power supply 12V-1,5Ah
- ▶ Max. charging voltage 14.9V
- ▶ Protection
- ▶ Clamping pliers
- ▶ Cables cross-section: 25mm<sup>2</sup>
- ▶ Length: 45cm
- ▶ Weight: 4,5kg
- ▶ Dimensions: H31cm x L27,5cm x P13,5cm

Recommended use: cars and vans.

(\*) Calculated for 50% discharge intensity.

(\*\*) Connect directly to a charged battery of a started vehicle and/or to a 30A workshop battery charger.

- ▶ Voltage 12-24V
- ▶ Starting current: 12000/6000 A
- ▶ Life (\*): 1.000.000 cycles
- ▶ First charging: 30 min, power supply unit included
- ▶ Charging duration: 5 min
- ▶ Quick charging (\*\*): 15 - 60 sec
- ▶ Charger
- ▶ Charging voltage: 230 V AC
- ▶ Charging power supply: 12 V – 1,5 Ah
- ▶ Max. charging voltage: 14.9 V
- ▶ Protection
- ▶ Clamping pliers
- ▶ Cables cross-section: 25 mm<sup>2</sup>
- ▶ Weight: 6,5 kg
- ▶ Dimensions: W31 cm x D27,5 cm x G13,5 cm
- ▶ Recommended use: cars and trucks
- ▶ Maximum battery capacity: 0-140 Ah
- ▶ Temperature of use: -40°C / +70°C
- ▶ Impact protection casing



Watch the movie on:  
**YouTube**

## Bat Expert Pro

007950006900



Watch the movie on:

**YouTube**



### Battery and Alternator Tester Magneti Marelli

The battery tester, loading efficiency and value of the voltage drop, equipped with a printer. Battery Tester from the offers of Magneti Marelli is a universal tester for verifying the condition of the battery as well as the elements cooperating with it – starter and alternator. Beyond that it is possible to check the voltage drop under the load of the starter as well as the receivers used while driving (heating windows, lights, etc.) All of the operations, as well as the printing itself, may be submitted in many languages.

#### Battery tests:

- ▶ current voltage
- ▶ startup current
- ▶ graphic , percentage summary of the battery state as well as the degree of the battery charge
- ▶ recommendations for battery (charge, replace, replace immediately)

All the tests can be performed on the batteries: Gel, AGM (automatic ), VRLA (partially automatic), SLI (standard). Startup current can be given according to one of the following standards: SAE, EN, IEC, DIN and JIS.

#### Tests on the vehicle:

- ▶ voltage drop at the time of the engine starting
- ▶ charging test without the load (checking the alternator and voltage regulator)
- ▶ charging test under the load (also testing the efficiency of electrical equipment on the board)
- ▶ voltage stability test (checking the voltage regulator as well as the alternator diode)

Printer: all the tests made by MM Battery Tester cannot only be viewed on the large and readable display equipped with adjustable lighting, but it can also be immediately printed using the built-in printer. Such a print contains all the data which have been verified during the test, giving the customer full information both about the state of the battery and alternator as well as voltage regulator. The MM Battery Tester is an extremely easy-to-use and user-friendly device. All available tests are performed step by step, according to the instructions given by the tester

#### Advantages:

- ▶ menu available in 13 languages: (English, French, Spanish, German, Italian, Portuguese, Polish, Czech, Greek, Turkish, Croatian, Romanian, Hungarian)
- ▶ durable and handy housing
- ▶ clear, backlit display
- ▶ battery condition control 6V and 12V
- ▶ measurement of voltage, inrush current and diagnosis of the battery condition
- ▶ compatibility with most types of batteries available on the market
- ▶ wide range of starting current of tested batteries: 40 - 2100 (EN)
- ▶ control of voltage jumps and alternator efficiency in various conditions (for 12V and 24V systems)
- ▶ printer enabling the printing of tests



**Battery Tester  
Printing Paper**

007950006995

## iBat Expert Pro

007950007150



iOS

NEW

Battery tester, charge efficiency and values of voltage drops, equipped in Bluetooth communication. iBat Expert Pro by Magneti Marelli is a universal tester that allows you to check both the condition of the battery itself as well as its components - alternator and starter. In addition, it is possible to check the gradients of Voltage under the starter load, as well as receivers used during driving (heating of windows, lights, etc.).

The device works with Android and IOS so the visualization is done on a tablet or smartphone, then you can create a database or print a test report.

### Tests can be performed on batteries:

- ▶ FLOODED
- ▶ VRLA/GEL
- ▶ AGM SPIRAL
- ▶ AGM FLAT PLATE
- ▶ PS AGM
- ▶ PS FLOODED

### Start Stop Test

- ▶ EFB
- ▶ AGM FLAT PLATE

### EV battery test (deep discharge)

The starting current can be specified in one of the SAE, EN, IEC, DIN and JIS standards.

### Technical parameters:

- ▶ For battery testing of 6 or 12 V or 8V (EV)
- ▶ For control of 12 or 24 V charging systems
- ▶ Operating temperature 0 - 50 °C
- ▶ Additional internal Li-Ion 1150 mAh battery
- ▶ Bluetooth 4.0 communication
- ▶ Works with iOS 8.0 and later and Android OS 4.3 and later



Bluetooth™



Watch the movie on:



### Memory Saver Ms-7E

007950006920

#### Key features:

- ▶ Device designed to support the controller memory when the car battery is disconnected.
- ▶ Very useful for replacing the battery
- ▶ Prevents data loss and reset of all devices.
- ▶ Connection to the vehicle through the EOBD socket or lighter connector.
- ▶ With the LED control panel it is possible to monitor the internal state of the battery on the fly.

#### Technical data:

- ▶ Battery installed inside: AGM
- ▶ Voltage: 12V
- ▶ Battery capacity: 7 Ah
- ▶ Dimensions: 24.5 cm x 24.5 cm x 18 cm
- ▶ Weight: 3 kg



### Battery Charger Bat-90 - With Cranking

007935660500

Bat-90 Battery Charger is a smart microprocessor charger with a startup function. Affordable price and efficient cooling system combined with great functionality guarantee professional regeneration of the battery or starting.

#### Technical data:

- ▶ Charges: 12V acid, Lead, AGM, gel, VRLA batteries (as long as they are rechargeable)
- ▶ Input: AC 220-240 V 5A/50Hz
- ▶ Charge output mode: 5 and 30 A (Amps)
- ▶ Starting the engine: 90 A (Amps)
- ▶ Cooling time after each rotation with an engine crankshaft: at least every 3 minutes
- ▶ The continuous rotation of the shaft crankshaft engine: 0-5 seconds
- ▶ Output maintenance mode: charging pulse
- ▶ Cables: 183 cm  
Dimensions: 20 (L) x 20 (W) x 13 (H) cm  
Weight: 6.3 kg



### Battery Charger Bat-5

007935660400

This is a compact microprocessor charger with smart charging function. Affordable price and small size combined with large functionality guarantees professional regeneration of the battery.

Safe: with IP65 protection rating dust / splash liquid / rain resistant; protection against reverse polarity / sparking; Overcharge protection and circuit protection against short circuits. Ease: Bright LEDs accurately identify the charge status.

- ▶ Lightweight, portable and compact design
- ▶ Charges: 12V acid, lead, AGM, gel batteries- (not applicable to non-rechargeable batteries)
- ▶ Input: SC5E AC 220-240 V/1A/50Hz
- ▶ Charge output mode: SC5E 5A
- ▶ Output maintenance mode: pulse charging
- ▶ Cables: 183 cm
- ▶ Dimensions: 16,0(L) x 9,6 (W) x 5,4 (H) cm
- ▶ Weight: 0,85 kg.

Applied technology: Microprocessor control, Maximum charging current 5A; Application: Acid batteries 12V; indicators LED; IP65 (splash and dust protection; Protection against sparks; Overload protection; Reverse polarity protection; 5 step loading.

The MAGNETI MARELLI professional charger provides 5-stage automatic charging, real charging with clean DC, Not only will it effectively charge batteries, it will also increase service life necessary for batteries. Individual charging grades:

- Level 1 - Desulphurisation
- Level 2 - Fast charging
- Level 3 - Correction and analysis
- Level 4 - Charge to obtain maximum off-state
- Level 5 - Sustaining Maintenance



**Battery Tester Basic**  
007950006910

Battery Tester Basic is a more compact version of the Battery Tester, featuring also print function and all the tests provided by the Battery Tester software. Available in 3 languages only: Polish, English, Russian (Cyrillic)..

**CAR BATTERY TESTS:**

- ▶ current voltage
- ▶ inrush current
- ▶ graphical percentage summary of the battery state state and its degree of charge
- ▶ recommendations concerning the battery (charging, replacement, urgent replacement)

**Technical data:**

- ▶ Internal rechargeable battery: AGM
- ▶ Voltage: 12V
- ▶ Battery capacity: 7 Ah
- ▶ Dimensions: 24.5 cm x 24.5 cm x 18 cm
- ▶ Weight: 3 kg

**Battery Tester Basic  
Printing Paper**  
007950006990



**Battery tester BAT 2000**  
007950007120

Battery tester with extended capabilities to verify the operation and control of the battery recharging level and recharging system. The tester has a printer that allows you to print measurement results and a temperature sensor for working temperature control Device can also archive all reports using the USB cable and the included software. Among the accessories there are amperometric clamps and a voltmeter that can be connected to the device available.

**Parameters:**

- ▶ Supported batteries: 6V and 12V (Flooded, VRLA/GEL, AGM S, AGM F)
- ▶ Operation in charging mode: 12V and 24V
- ▶ START & STOP operation: 12V (EFB, AGM)
- ▶ Operating temperature range: 0-50°C
- ▶ Power supply: 4 x 1.5 V battery
- ▶ Measurement range: 40 to 3000 CCA (SAE)
- ▶ Test memory: up to 1000 records
- ▶ USB port
- ▶ Measurement standards: SAE (CCA), DIN, EN, IEC, JIS
- ▶ Print personalization
- ▶ Printer
- ▶ Temperature sensor
- ▶ Producer codes displayed on printout

**ACCESSORIES**



**Voltage probe for BAT 2000**  
007950007140

Voltage probe for BAT 2000 tester is an accessory for measuring voltage in electrical circuits. This type of app is useful in a professional workshop specializing in testing, repairing and servicing electrical systems in motor vehicles. Every electrician or car mechanic will be able to measure the electrical system performance during testing and diagnostics, especially when working with batteries used for the BAT 2000 tester. The voltage probe is a perfect complement to the BAT 2000 battery tester and avoids the need to use other devices for measuring parameters in electrical systems with particular regard to the circuit in the vicinity A battery where you can check the efficiency and efficiency of the electrical system in the car.



**Amperometric clamps for BAT 2000**  
007950007130

The amperometric clamps for the BAT 2000 tester provide the possibility to measure parameters in electrical systems without disconnecting cables. Measurements are made using inductivity, which allows for reliable measurements also in workshop conditions. Ideally suited for use by mechanics and electricians in motor vehicles, and their intended use for the BAT 2000 tester perfectly complements its capabilities and benefits from the convenience of using this type of solution for convenience and safety due to the absence of disconnecting cables and working on open systems.



**Battery tester BAT 002**  
007950007110

Battery tester used during start-up trouble resulting from a failed battery. Easy-to-use features allow for smooth and fully professional use of the tester. Tests charged and discharged batteries.

Allows testing in international standards SAE, DIN, EN, IEC, JIS. During testing hints are displayed which accelerate the selection of appropriate position on the display.

**Parameters:**

- ▶ Supported batteries: 6V i 12V (Flooded, VRLA/GEL, AGM S, AGM F)
- ▶ START & STOP operation 12V (EFB, AGM)
- ▶ Measurement range: 40 – 2000 CCA (SAE)
- ▶ LCD display: 2 lines, 16 characters
- ▶ Measurement standards: SAE (CCA), DIN, EN, IEC, JIS

**Dimensions:**

- ▶ Length: 190 mm
- ▶ Width: 115 mm
- ▶ Height: 50 mm



**Charge Battery tester with AMP clamps (50A charging) (120A) cranking**  
007950007060

**Charge Battery tester(50A charging) (120A) cranking**  
007950007050

Battery tester with charger 50A and startup function 120A with amperometric clamps is a device that allows you to check the discharge level of the battery with the function of charging and starting the car. The device is intended for 12V batteries and also in some applications for 24V batteries. The amperometric clamp accessory provides the ability to measure electrical system parameters without having to disconnect wires and work on open systems for enhanced security and ease of use. The tester kit comes with a software CD that includes a software installation driver and user manual. This gives you access to extensive user functions. Each measurement and operation performed by the device is recorded in the device memory and then printed using the built-in printer device. Also the date of measurement can be recorded on the printout and in memory, which can be set manually in the device settings. At the same time, the display, which is built into the device, provides the current readings of measured results and parameters, which simplifies the use of this device and gives it the status of top-of-the-line devices.

**The device supports all popular batteries:**

- ▶ EFB
- ▶ AGM
- ▶ SAE (CCA) (200-3000Ah)
- ▶ EN (190-2830Ah)
- ▶ IEC (135-1985Ah)
- ▶ DIN (115-1685Ah)
- ▶ JIS

**Operating temperature:** 0 do 50°C

Application	Batteries of 12V for Start/Stop systems Batteries and systems of 12V / 24V - start function Quick recharging after the test
Testing Start-Stop batteries	YES
Scope of battery capacity (SAE)	200-3000Ah
Range of voltage (V)	1,5V-30V
Temperature compensation	YES
Test of charging system / starting a vehicle	YES
Display	LCD / 4-wierszowy
USB function	YES
PC Software	YES
Thermal printer	YES
Removable cables	YES
Length of cables	2,5M
Range of load for clamps	10-600
Range of voltage measurements	1.5V-60V
Terminal/Accessory	Printer Paper Optional Clamp Amp & test probe
Dimensions DxBxW (cm)	33 * 30 * 20cm



**Digital battery load tester BAT508**  
007950007020

Digital 12V battery load tester. It runs tests of charging degree, start-up abilities, efficiency of charging system and start-up tests.

**The tester is equipped with:**

- ▶ LED display showing voltage and test results
- ▶ automatic load stopping after 10 seconds and maintaining the voltage
- ▶ unique 3-stage reading: checking polarization on the LCD screen, control of battery charging level, reading the test of charging system
- ▶ control of battery and charging system conditions
- ▶ total transfer possibility.

**No need to connect external power supply.**



**125 A Hand held battery load tester BAT601**  
007950007030

The BAT 601 is designed for 6V and 12V batteries up to 1000CCA. Performs tests of charge, boot and charging performance. Used for standard and maintenance-free batteries in passenger cars and delivery vehicles. The tester is completely portable. No need to connect external power. Performs a complete test in 10 seconds. The device is sure and accurate. Robust and shockproof. It has durable, color-coded clamps.

**Supported batteries:**

- ▶ 6V
- ▶ 12V

**Possible operations:**

- ▶ Load test
- ▶ Temperature Correction (1 step = 50A)
- ▶ Testing the charging system
- ▶ Starter test (12V)



**Eversmart battery alert BM1**  
007950007040

The BM1 Battery Discharge Indicator is a device that allows you to check the battery discharge level, which, by simple construction and small dimensions, can always be on hand and provide support when equipment is not available.

This device can be connected to the battery and continuously check the parameters by informing the audio signal of the voltage drop below a certain value. This is a very good product for mechanics and electricians in auto workshops who want to keep track of the battery charge.

**Technical parameters:**

- ▶ Warning at a voltage drop below 12,2V
- ▶ Current consumption: below 2mA
- ▶ Current consumption with a sound alarm on: below 80mA
- ▶ Sound alarm every 10 secs
- ▶ Reverse polarity protection

## Battery Charger BAT 100 10 A with LCD

007950007100

Device for charging batteries and for battery maintenance in motor vehicles. Simple operation is ensured by the LCD display with a graphical representation of the battery charge level, which is achieved through intelligent multi-stage charging (9 cycles).

The charger handles all standard battery types including the latest lithium polymer, providing adaptability to each type by charging in three modes, including batteries intended for motorcycles, passenger cars and voltage suppressors..



**Technical parameters:**

- ▶ LCD display
- ▶ Includes a set of ring clamp
- ▶ AC voltage: 220-240V, 50-60Hz
- ▶ Minimum battery voltage:
  - Acid-lead: 2V
  - LFP: 10V
- ▶ 3 charging modes:
  - Smaller batteries:

- 1.5A-12V; 2.3Ah to 30Ah
- Large batteries: 10A-12V; 30Ah to 200Ah
- Power supply: 13.6V – 10A
- ▶ 9 cycles for batteries AGM, GEL, STD, VRLA, MF, CAL/CAL
- ▶ 6 cycles for LiFePO4 battery
- ▶ Supported batteries: 12V - AGM, GEL, STD, VRLA, MF, CAL/CAL

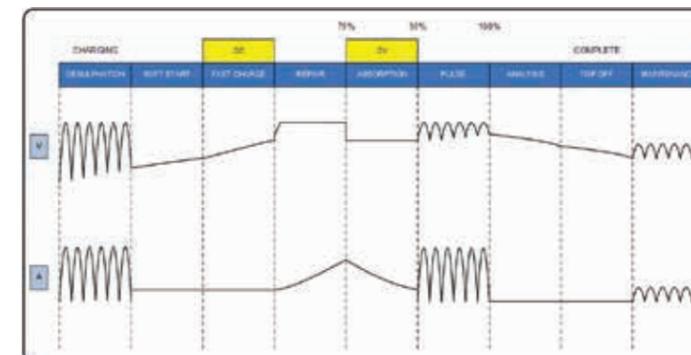
- ▶ Intelligent charging program
- ▶ Temperature sensor with compensation function
- ▶ Operating temperature: -20 to +50°C
- ▶ Weight 880g

**Dimensions:**

- ▶ Length: 210 mm
- ▶ Width: 98 mm
- ▶ Height: 60 mm

### CRANKING CABLES

- ▶ **007936001185** Cranking Cable
- ▶ **007950006940** Professional Cranking Cables Copper 3,5M Section 25 Mm3 350 A
- ▶ **007950006930** Professional Cranking Cables Copper 3M Section 16 Mm2 220 A
- ▶ **007950006950** Professional Cranking Cables Copper 4,5M Section 35 Mm2 480 A
- ▶ **007950006970** Professional Cranking Cables Cca 3,5 M Section 25 Mm2 220 A
- ▶ **007950006960** Professional Cranking Cables Cca 3M Section 16 Mm2 150 A
- ▶ **007950006980** Professional Cranking Cables Copper Cca 4,5 M Section 35 Mm2 350 A



9 Charging rates

## ATF Extra PRO

007935110000



Made in Italy



With the **ATF Extra Pro** operator is able to exchange ATF fluid, and flush the automatic transmission in every vehicle. The device has an electronic control system that allows exchanging transmission fluid ATF in an automatic gearbox without opening and complete emptying it, regardless of the temperature difference (and thus the volume) between fresh (cold) and used (warm) transmission oil.

In addition to controlling the **ATF Extra Pro** pump, the instrument software monitors the oil exchange operation, checks whether the amount of fresh oil is sufficient and whether there is still room in the tank for collecting the used oil. The unit is equipped with an easy-to-remove oil-waste tank with a cover including connectors and wires. The device works in an automatic mode, it has scales, which accurately measure the amount of used and fresh oil as well as automatically detects the flow direction of the ATF fluid. The device has a database that makes vehicle servicing easier and faster. Adapters are not included in the unit and are available in sets or individually. An additional flush fluid tank allows for its application and flushing cycle.

### ACCESSORIES

- ▶ 007935110020 Replacement filter for ATF EXTRA

Technical parameters	ATF Extra PRO
Power supply	DC 12V from vehicle battery
Working pressure	8 bar
Efficiency	5,5 l/min



Watch the movie on:

## MM-TC200

007935016745



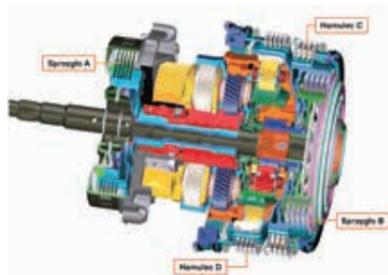
The **MM-TC200** device allows you to drain the gearbox from used oil, flush it with a appropriate detergent, and fill it with fresh oil up to the level recommended by the manufacturer. Unlike the previous version of the device, the MM-TC200 uses variable displacement pump, Parker quick couplers, new hoses inside the unit, and refreshed front panel.

Thanks to the use of a 1-phase motor powered with 230V, the machine does not require complicated connections, which increases the flexibility of applications. The device operates in manual mode, which requires more intervention by the operator than in the case of a **ATF Extra Pro**. Adapters are not included in the unit and are available in sets or individually.

Technical parameters	MM-TC200
Working pressure	8 bar
Efficiency	5,5 l/min

## On-Line ATF database with information about automatic gearboxes PL, ENG, IT (yearly license)

009999270000



Magneti Marelli is the first company to introduce to the offer an advanced database with all necessary information about automatic transmission fluid (ATF) replacement. The database includes 34 car brands, 654 models and over 3000 versions of these models. The database is not focused only on European vehicles, but includes also information about Asian and American manufacturers.

### Program features:

- ▶ Intuitive vehicle search, information in Polish, English and Italian.
- ▶ A wide base of vehicles (over 3000 versions), drawings and pictures of the real elements of the layout.
- ▶ Information about the amount of oil in the gearbox and the factory reference number.
- ▶ Locations of connectors to connect the ATF.
- ▶ Photos and adapters that match specific connectors.
- ▶ Transmission flushing procedure (with pictures and description), filter replacement procedure (with pictures and OEM numbers).
- ▶ Pictures of oil pan gaskets with OEM number, oil level check procedure.
- ▶ Tightening torques of individual plugs, (drain, fill, level check).



### Flushing fluids for ATF Extra/MM TC-200



A special formula allows the removal of impurities and paraffins, which were created during the operation of the automatic transmission in different working conditions..

- ▶ **007950025420** Flushing Fluid For Automatic Gerboxes 1 L
- ▶ **007950025430** Flushing Fluid For Automatic Gerboxes 5 L
- ▶ **007950026100** Flushing Fluid For Automatic Gerboxes 400 ml

### EVO set of adapters for ATF Extra and MM-TC200 007935110015

The kit includes the most popular adapters dedicated to the European market. 24 pcs.



### FULL set of adapters for ATF Extra and MM-TC200 007935110025

Full set of adapters (48 pcs)



## Connectors for MM-TC200 and ATF Extra PRO

Connector male	Connector female	Predestination
 007935110130	 007935110130	<b>VOLVO</b> C30-C70 S40-S60-S70-S80 V40-V70
 007935110170 (EVO)	 007935110160 (EVO)	<b>GM-FIAT-FORD-JEEP-CHRYSLER</b> SAAB-MERCEDES
 007935110200	 007935110190	<b>VW-TIGUAN-JAGUAR</b>
 007935110260 (EVO)	 007935110250 (EVO)	<b>BMW-JAGUAR</b>
 007935110300 (EVO)	 007935110290 (EVO)	<b>MERCEDES</b>
 007935110320 (EVO)	 007935110310 (EVO)	<b>BMW</b> E39 from 2004 <b>BMW</b> E46 from 2007 <b>MERCEDES</b> W210 i W203 from 2009
 007935110340 (EVO)	 007935110330 (EVO)	<b>BMW 2</b> SERIA 7-Z3
 007935110360	 007935110350	<b>VOLVO</b> 850-940-960
 007935110420	 007935110400	<b>VOLVO</b> XC60-XC70-XC90
	 007935110410	

Connector male	Connector female	Predestination	
 007935110460 (EVO)	 007935110450 (EVO)	<b>MERCEDES</b> Class A/B	
 007935110480 (EVO)	 007935110470 (EVO)	<b>BMW</b> <b>LAND ROVER</b> <b>BMW CAMBIO 6HP</b>	
	 007935110640 (EVO)		
 007935110500	 007935110490	<b>BMW - JAGUAR</b>	
 007935110660 (EVO)	 007935110650 (EVO)	<b>BMW SERIA 1 - X5 - X6</b> <b>CAMBIO 8HP</b>	
Connector	Predestination	Connector	Predestination
 007935110140	<b>PSA - RENAULT</b> <b>GROUP</b> <b>CAMBIO AL4</b>	 007935110370	<b>VOLVO 850</b>
 007935110150	<b>VW DSG</b>	 007935110390	<b>VW</b> <b>TRANSPORTER</b> <b>LT (2X1)</b>
 007935110180	<b>JEEP</b> <b>mitsubishi</b> <b>GM</b> <b>SUZUKI</b> <b>TOYOTA</b>	 007935110510 (EVO)	<b>Hose 1/4</b> <b>ALFA ROMEO</b> <b>156 1.8</b> <b>untill 2000</b>
 007935110210	<b>ALFA ROMEO</b> <b>159</b>	 007935110530 (EVO)	<b>Hose 3/8 -</b> <b>ALFA ROMEO</b> <b>156 1.6 i 166</b>

Connector	Predestination	Connector	Predestination
 007935110540 (EVO)	<b>Hose 1/2</b> - BMW - CHEVROLET - HONDA - HYUNDAI - JAGUAR - JEEP - KIA - LAND ROVER - LEXUS - MITSUBISHI - OPEL - ROVER - SUZUKI - TOYOTA	 007935110610	<b>Connector</b> <b>SC PSA 130 mm</b>
 007935110560 (EVO)	<b>Connector</b> <b>90° - ALFA</b> <b>ROMEO 156</b> <b>1.6 i 166</b>	 007935110630	<b>Connector</b> <b>AUDI A8</b> - PORSCHE <b>PANAMERA</b>
 007935110570	<b>Connector</b> - NISSAN - DAIHATSU - SUZUKI	 007935110670	<b>Connector/Flange</b> - NISSAN - MITSUBISHI - RENAULT
 007935110580	<b>Connector</b> <b>AISIN FIAT</b> - LANCIA - <b>FORD - PSA</b> <b>(110mm)</b>	 007935110620	<b>Connector</b> <b>ASTA</b> <b>CHRYSLER</b> <b>MERCEDES</b>
 007935110590	<b>Connecting</b> <b>hose to 1/4</b>	 007935110620	<b>Adapter</b> <b>for Mercedes</b> <b>Klasa A/B</b>
 007935110600	<b>Connecting</b> <b>hose to 1/2</b>	 007935130100	<b>Adapter</b> <b>for Powershift</b> <b>MPS6</b>
 007935130450	<b>Connector</b> <b>NISSAN</b> <b>RENAULT</b> <b>MITSUBISHI</b>		



**Exhaust-Gas Analyser Logic Gas (for PC)**

007935900100

**Gas analyzer for petrol, zasilanych 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, rozdzielczość 1 ppm
- ▶ O2 reading: volume CO2 ÷ 0, resolution 0,01 by volume
- ▶ Warm up time: approx. 3 minutes
- ▶ Integrated battery that ensures 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 battery 12 V (optional)
- ▶ Dimensions: 230 x 340 x 225
- ▶ Weight: about 10 kg (including an internal battery)

**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, CO<sub>2</sub>, HC, O<sub>2</sub>
- ▶ Lambda coefficient calculation



**Exhaust-Gas Analyser Smart Gas - 5 gases with NOx, with display and printer, with MID PL certification**

007935920030

**Gas analyzer for gasoline powered vehicles code 007935920030, LPG and CNG:**

- ▶ CO reading: 0 ÷ 10% volume, resolution 0.01 by volume
- ▶ CO2 reading: 0 ÷ 20% resolution 0.01 by volume
- ▶ HC reading: 0 ÷ 10 000 ppm, resolution of 1 ppm
- ▶ O2 reading: 0 ÷ 21% volume, resolution 0.01 by volume
- ▶ NOx reading
- ▶ Heating time: about 3 minutes
- ▶ Integrated printer: 24 columns, Thermal printable reports
- ▶ Multifunctional keypad
- ▶ LCD 4x20 lit white LEDs High brightness
- ▶ Integrated battery for easy operation action time of 4 hours, with the possibility of recharging directly from the network electricity
- ▶ Power supply 220V - 50 Hz or 12V battery (optional)

**Connectors:**

- ▶ Inputs: electrical network, speed counter, Coolant temperature probe
- ▶ Serial port for connection with PC cable
- ▶ PS2 port for PC keyboard
- ▶ Internal Bluetooth Class 1

**Standard equipment:**

- ▶ Cable for connection to the power supply system
- ▶ Oxygen sensor
- ▶ Flue gas probe
- ▶ CD-ROM with PC software
- ▶ A short manual for setting up and starting a device
- ▶ Serial cable for PC connection

**Functions:**

- ▶ Analysis of 4 basic gases: CO, CO<sub>2</sub>, HC, O<sub>2</sub>, NO<sub>x</sub>
- ▶ Calculation of the lambda coefficient



**Exhaust-Gas Analyser Smart Gas - 4 gases, with display and printer, with MID PL certification**

007935920010

**Gas analyzer for gasoline powered vehicles code 007935920010, LPG and CNG:**

- ▶ 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 0 ÷ 21 %, resolution 0,01 by volume
- ▶ Warm up time: approx. 3 minutes
- ▶ Integrated printer: 24 columns, thermal, for report printouts
- ▶ Multi-function keypad
- ▶ LCD 4x 20 backlight with white diodes of high brightness
- ▶ Integrated battery that ensures operating time of 4 hours, with a possibility of direct charge from 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 a PC

**Functions:**

- ▶ Analysis of 4 main gases: CO, CO<sub>2</sub>, HC, O<sub>2</sub>
- ▶ Lambda coefficient calculation



**Smoke Meter Logic Smoke (for PC)**

007935900120

**Logic Smoke 007935900040 features:**

- ▶ 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 temp.: 75°C
- ▶ Integrated battery that ensures operating time of 4 hours, with a possibility of charging directly from the electrical network
- ▶ Dimensions: 230 x 340 x 225
- ▶ 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 a PC
- ▶ PS2 Port for a PC keyboard
- ▶ Supply voltage connector 12V
- ▶ Internal Bluetooth Class 1

**Serial equipment:**

- ▶ Cable for electrical network connection
- ▶ Czujnik tlenu
- ▶ Exhaust gas collection 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

**Opacity analysis (both in % and in m-1), with the engine speed acceleration, smoke and exhaust temperature trigger.**



**Smoke Meter Smart Smoke**

007935900110

**Smart Smoke features:**

- ▶ 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 10C
- ▶ Warm up time: approx. 3 minutes
- ▶ Exhaust gas analysis chamber temperature: 750C
- ▶ Integrated printer: 24 columns, thermal, for report printouts
- ▶ Multi-function keypad
- ▶ LCD 4x 20 backlight 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 a PC
- ▶ PS2 Port for a PC keyboard
- ▶ Internal Bluetooth Class 1

**Serial equipment:**

- ▶ Cable for electrical network connection
- ▶ Exhaust gas collection 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

**Opacity analysis (both in % and in m-1), with engine speed acceleration, smoke and exhaust temperature trigger.**



**ACCESSORIES**



**Battery**

007935900330

**Trolley dedicated to exhaust gas analyzers and opacimeters**

007935911950

**Additional Kit For Rpm (addon to 007935900320)**

007935900305



**Piezoelectric RPM sensor (addon to 007935900320) • 007935900325**



**Oil Temperature Sensor length 5m • 007935900300**

**Additional Kit For Motorcycles**

007935900310



**Additional Kit For Rpm**

007935900320



**Special Probe For Truck Vehicles**

007935900370

## Ultrasonic baths

Ultrasonic washing for maximum purity in less time than conventional washing such as hand washing, spraying or similar. Ultrasounds effectively remove impurities such as grinding pastes polishing, abrasive, shavings and chips, greases and cooling emulsions.

The Ran-Scan digital ultrasound generator measures and controls the resonance frequency of the ultrasonic transducer. The Ran-Scan accurately selects the frequency to maintain the maximum power of the generator in various operating conditions, such as changing temperature, degassing of the bath in the car wash or different mass of the charge. The Ran-Scan system automatically adjusts the generator at regular intervals and maintains a constant power range of 92-100%. With the Ran-Scan system, even after long-term use, Magneti Marelli ultrasonic washers will be as effective as at the beginning. State-of-the-art IGBT transistors, which, combined with the Ran-Scan digital control, completely eliminated service of the car wash. As the assembly standard we use a modular system "EURO 19", easy to expand, replace and maintain.

The Sweep method, in addition to the reduction of the standing wave phenomenon, allows the device to operate at changeable load, temperature and time. In modern single-frequency car washes, sophisticated frequency tracking systems are used. The Sweep method provides good use of Ultrasonic transmitter power and more uniform distribution of vibration amplitude in the washer.

How do ultrasounds work? The high-frequency current from the power generator is supplied to the ultrasonic transmitter, whose working element is two piezoelectric plates. The transmitter is attached to the bottom or wall of the bath and causes vibrations that are transferred to the washing liquid. Rapid condensation and thinning of the liquid cause cavitation, which consists in the rapid formation and disappearance of vacuum-induced microbubbles of contaminants in the volume of fluid. Any cavitation caused by the ultrasound works strongly, it does not damage delicate or complicated mechanisms. Washing requires minimal supervision and can be performed by unqualified personnel. Ultrasonic washers can be easily adapted for serial production by connecting to the process line.

**Ultrasonic bath MU-100 capacity 10l**  
dimensions of the washing chamber:  
300x280x70mm  
007935018050



**Ultrasonic bath MU-14 capacity 1,4l**  
dimensions of the washing chamber:  
120x110x110mm  
007935018000



**Ultrasonic bath MU-150, capacity 15L,**  
dimensions of the washing chamber:  
475x285x115mm  
007935018060



**Ultrasonic bath MU-230, capacity 23L,**  
dimensions of the washing chamber:  
475x280x170mm  
007935018070



**Ultrasonic bath MU-25 capacity 2,5l**  
dimensions of the washing chamber:  
270x120x70mm  
007935018010



**Ultrasonic bath MU-40 capacity 4l**  
dimensions of the washing chamber:  
480x115x70mm  
007935018020



**Ultrasonic bath MU-55 capacity 5,5l**  
dimensions of the washing chamber:  
300x280x70mm  
007935018030



**Ultrasonic bath MU-90 capacity 9l**  
dimensions of the washing chamber:  
300x280x120mm  
007935018040



**Multifrequency Ultrasonic Cleaning Tank For All The Components Of Common Rail Injectors – 14 Lt.**  
007950010400



### ACCESSORIES



- ▶ Container for parts to MU-100  
007935018130
- ▶ Container for parts to MU-14  
007935018080
- ▶ Container for parts to MU-150  
007935018140
- ▶ Container for parts to MU-230  
007935018150

- ▶ Container for parts to MU-25  
007935018090
- ▶ Container for parts to MU-40  
007935018100
- ▶ Container for parts to MU-55  
007935018110
- ▶ Container for parts to MU-90  
007935018120

# Magneti Marelli ES.3 Diesel & gasoline engine treatment unit

007935095380

### Device operation:

The ES.3 device guides the user step by step through the fuel system cleaning cycle. Informations are displayed on the LCD screen. Automatic operation mode that does not require mechanical intervention during the procedure of cleaning. Fuel pressure generated by the device is automatically adjusted to the pressure in the vehicle's fuel system. Power is supplied from a serviced vehicle - 12V.

### Device characteristics:

Automatic cleaning device for gasoline and diesel fuel systems in:

- ▶ motorcycle
- ▶ passenger cars
- ▶ light duty trucks
- ▶ heavy duty trucks
- ▶ buses
- ▶ marines

### Supported systems:

- ▶ Common Rail Diesel,
- ▶ Conventional Diesel
- ▶ Gasoline Direct Injection (G-DI, FSI, HPI, etc.)
- ▶ Conventional Fuel Injection (MPFI / TBI / CIS)
- ▶ Carburetor
- ▶ LPG



### Device features:

- ▶ Dual-Tank system
- ▶ Automatic Pressure adjustment
- ▶ Adaptability to all makes and models
- ▶ Intake manifold cleaning with adapter unit1 (IMC.01)
- ▶ Diesel Particulate Filter cleaning with adapter unit1 (DPF.01)
- ▶ Automatic /manual functions
- ▶ On-Display guide with language localization
- ▶ Upgradeable & User-friendly
- ▶ Operating interface user-friendly
- ▶ Polish language Software
- ▶ Portable, Lightweight and Robust product

### Thanks to fuel system treatment device like ES.3, it is possible to:

- ▶ Exhaust emissions reduction more than 70%
- ▶ Maximum restoration of engine's performance
- ▶ Reduction of fuel consumption
- ▶ Common-Rail system cleaning
- ▶ High Pressure pump conditioning
- ▶ De-carbonization of the combustion chamber
- ▶ De-carbonizing of Intake Manifold and throttle body
- ▶ Optimum fuel combustion
- ▶ Blocked valves and piston rings release
- ▶ De-carbonization of the catalytic converter & DPF
- ▶ Fading of engine knocking
- ▶ Prevention of long term expensive repairs



# Gasoline injectors tester Magneti Marelli GS2/GS4



### Device characteristics:

- Automatic device for testing petrol injectors, including:
- ▶ Multi-point MPI injection
  - ▶ Single-point TBI injection
  - ▶ HPI, FSI direct injection, GDI in the low pressure range
  - ▶ LPG
  - ▶ CNG

Thanks to the GS series devices, it is possible to detect the causes of incorrect engine operation:

- ▶ Increased exhaust emission
- ▶ Reduced engine performance (power, torque)
- ▶ Increased fuel consumption
- ▶ Failure of direct injection systems (leaks, pressure drop)
- ▶ „Hard“ engine idling, engine stalling
- ▶ Problems with the engine starting

Thanks to the use of illuminated (high brightness LED diodes) measurement tubes it is possible to observe and evaluate:

- ▶ Uniformity of the injected fuel jet
- ▶ The shape of the fuel stream
- ▶ Amount of fuel - iVM test. (with an accuracy of ± 1 ml / 130ml)

### Features:

- ▶ Operating pressure: 0-10 bar
- ▶ Gasoline Direct Injectors tested up to 10 Bar
- ▶ Fully programmable Test-Plans
- ▶ Variable & Customizable Test-Plans
- ▶ Engine load Simulation Tests
- ▶ Ergonomic and dynamic and user-friendly design
- ▶ Short testing time required / Automatic function
- ▶ Ergonomic, robust, fast & simple injector clamping
- ▶ Spray and Volume test
- ▶ Injector Protection circuit
- ▶ Injector Reverse flush after U/Sonic cleaning



### STANDARD EQUIPMENT:

Standard Kit  
Set of Fuel Rail & Adapters for all makes and types of Top-Feed Injectors



Reverse flushing



Injection volume metering



Software

## ACCESSORIES

Exclusive Fuel System Adapters Kit (Quick Connectors) / Available For All Types of Engines Configurations / ES Series & FST Tools

**007935101460**



Cleaning Fluid for ES.3  
**007935095490**



Cleaning Fluid for ES.3  
**007935095500**



Set of adapters for DPF cleaning for ES.3  
**007935100530**



Cleaning Fluid For DPF filters for ES.3 - 2 L  
**007935101670**

Intake Manifold Cleaning Adapters Kit / ES Series  
**007935101470**



Gasoline injector calibration fluid, ultrasonic solvent



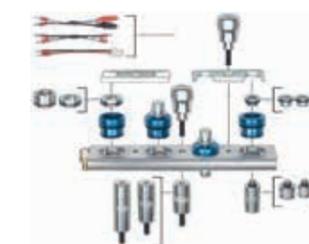
Ultrasonic bath

MM Code	MODEL	DESCRIPTION
007935095360	GS2.10	Gasoline Injectors Tester With Ultrasonic Cleaner Gs2
007935095370	GS4.10	Gasoline Injectors Tester With Ultrasonic Cleaner Gs4
007935101640	GS2.20	Gasoline Injectors Tester With Ultrasonic Cleaner Gs2 Exclusive adapter kit
007935101650	GS4.20	Gasoline Injectors Tester With Ultrasonic Cleaner Gs4 Exclusive adapter kit

### OPTIONAL EQUIPMENT:

Exclusive set of adapters for all top and side feed petrol injectors, as well as CNG and LPG

**007935100475**



## Devices for petrol injectors testing - Magneti Marelli GD1R, GDU\*R



Modern systems of direct gasoline injection (G-DI, FSI, HPI, JTS), for proper testing of injectors used in these systems, require devices with high operating pressure. Magneti Marelli offers devices for testing and cleaning such injectors.

### Device characteristics:

- Automatic device for testing petrol injectors, including:
  - ▶ Test all types of electromagnetic and piezo injectors (0-300 V / 0-35A)
  - ▶ Operation of 1 or 4 injectors (GDU4R)
  - ▶ Working pressure up to 300 or 550 bar
  - ▶ Electronic measuring system
  - ▶ Dynamic mass measurement for the GDU\*R series (accuracy: 0.2%, repeatability: 0.05%)
  - ▶ Static mass measurement for GD1R series (Resolution: 0.1mm3, accuracy: 0.6%)
  - ▶ Protect the control board from damage
  - ▶ Unique PIEZO stack regeneration function
  - ▶ Internal cleaning of injectors
    - MACC (versions \* / F)
  - ▶ Free database update
  - ▶ Operation in automatic mode (only in GD1R-E / 30 manual pressure regulator)
  - ▶ Test time: 5-15 mins (GDU2R / GDU4R) and 7-8 mins (GD1R)
  - ▶ Built-in 10 "B" GD1R) tablet with Android
  - ▶ Clearly presented test results with the possibility of printing
  - ▶ Available adapter for power supply all types of injectors

### Performed tests:

- R2LC**  
Electrical test:
  - piezo:  $k\Omega/\mu F$
  - coil:  $\Omega/mH$
- CFL**  
Check For Leaks test (injector internal or external)
- NLT**  
Nozzle Leakage Test @High Pressure
- iVM**  
injector Volume Measuring test



(full-load, part-load, emissions, low-load, pre/post-injection tests and more...)  
**RSP**  
Injector nozzle Response-time test.  
**SPR**  
Dynamic Spray test performed in all testing conditions.

MM Code	Model	Max operating pressure	Internal injector cleaning	Measuring system	Number of testing slots
007935101500	GD1R-E/30	300 bar	NO	Static mass measurement	1
007935101510	GD1R-D/30	300 bar	NO	Static mass measurement	1
007935101600	GDU.2R/30	300 bar	NO	Dynamic mass measurement	1
007935101610	GDU.2R/30/F	300 bar	YES	Dynamic mass measurement	1
007935101620	GDU.2R/55	550 bar	NO	Dynamic mass measurement	1
007935101630	GDU.2R/55/F	550 bar	YES	Dynamic mass measurement	1
007935101160	GDU.4R/30	300 bar	NO	Dynamic mass measurement	4
007935101590	GDU.4R/30/F	300 bar	YES	Dynamic mass measurement	4
007935101170	GDU.4R/55	550 bar	NO	Dynamic mass measurement	4



NEW

# Alaska START

## 007950015200



ALASKA START is an automatic Magneti Marelli device, developed for the diagnosis and operation of air conditioning systems. The device makes it easy to carry out maintenance interventions in two ways. This model is a compromise between great technical capabilities and attractive price.

1) Manual operation: the operator performs recovery of the refrigerant, draining, oil injection, filling. 2) Automatic function: operations are performed automatically by selecting a car code from the database or automatically in a programmable cycle (without operator assistance). by setting individual functions entered by the operator). Comprehensive device software can guide the operator through successive work cycles.

Database of personal cars, vans, trucks and machines as well as farmer machines improves the operator's work and accelerates the operation of the air conditioning system.

#### Equipment:

- ▶ Programmer, and high-end electronic electrovalve control system
- ▶ Safety valves
- ▶ Pressure sensors
- ▶ Two analog gauges
- ▶ Two manual valves
- ▶ Three tanks for fresh, and used oil and contrast
- ▶ Printer (optional)
- ▶ Service cables 3m long with the possibility of elongation
- ▶ Clear alphanumeric display
- ▶ Integrated, electronic database, allowing Secondary identification of the vehicle based on the registration number along with the database of recently completed services and diagnostics

#### Functions ALASKA START:

- ▶ Recovery of refrigerant contained in A / C
- ▶ Cleaning mechanical pollutants
- ▶ Dewatering the agent through filtration
- ▶ Separation of the agent from the oil in the system
- ▶ Measurement of the amount of recovered agent
- ▶ Test of the presence of residual factors in the system
- ▶ Dehumidification system with efficient vacuum pump
- ▶ System tightness test ( vacuum or pressurized with nitrogen)
- ▶ Automatic or semi-automatic oil injection and contrast in the amount assumed by the operator or manual with visual inspection
- ▶ Recovering the remaining agent from the cables
- ▶ Manual operation
- ▶ Record 20 most recently completed services
- ▶ Uncomplicated and cheap service

Made in Italy

#### Specification:

- ▶ Coolant: R134a
- ▶ Electronic balance of the coolant, accuracy: +/- 10 g
- ▶ Electronic vacuum gauge: Kl. 2.5
- ▶ Operating capacity: tank - 10 kg R134a
- ▶ Filter with molecular sieve and mechanical mesh
- ▶ Vacuum pump: 70 l / min
- ▶ Maximum vacuum of 0.05 mbar
- ▶ Compressor capacity: 300g / min
- ▶ Cables: 3m
- ▶ Thermal printer (optional)

#### The unit includes:

- ▶ Pair of protective gloves
- ▶ Goggles
- ▶ A set of connectors for the outer cylinder



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CAR DATABASE + TRUCK + AGRI



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LOW OPERATION COSTS

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# Alaska START HFO

## 007950015210



ALASKA START HFO is a unit for filling and diagnosis of air conditioning systems using the new coolant HFO-1234yf. The unit complies with the European and US safety regulations as well as the SAE (Society of Automotive Engineers). The coolant recovery and filling functions have been improved to guarantee the maximum precision and management of exceptionally simple and extraordinary maintenance. The performance of the ventilation system guarantees the best heat dissipation, and the placement of the tachometric fan at the bottom of the unit enables the removal of any gas that may be leaking out and which can be transported outwards by the ventilation of the car workshop. Additionally, it allows identification of the refrigerant by means of an optional identifier. Innovative working alerts signal device malfunction, automotive installation and maintenance.

#### Equipment:

- ▶ Programmer, and high-end electronic electrovalve control system
- ▶ Refrigerant Identifier (optional)
- ▶ Safety valves
- ▶ Pressure sensors
- ▶ Three analog gauges
- ▶ Two hand valves
- ▶ Three tanks for: fresh oil, used and contrast
- ▶ Printer (optional)
- ▶ Service cables 3m long in compliance with J2888 standard
- ▶ Clear alphanumeric display
- ▶ Additional manometer indicating pressure in the inner cylinder
- ▶ Integrated electronic database allowing, among others, the secondary vehicle identification based on the registration number with the database of recently completed services
- ▶ Connector for Nitrogen (option)
- ▶ Connector for system rinsing
- ▶ POE / UV container (for hybrid vehicles with quick coupler)
- ▶ Parker quick connectors conforming to J2888 standard

#### Functions ALASKA START HFO:

- ▶ Recovery of coolant contained in A/C
- ▶ Purification of mechanical pollutants
- ▶ Dewatering of the agent by filtration
- ▶ Separation of the oil in the system
- ▶ Measurement of the amount of recovered agent
- ▶ Measurement of the amount of recovered oil
- ▶ Test of the presence of residual factors in the system
- ▶ Dehumidification of the system with efficient vacuum pump
- ▶ System tightness test ( vacuum or pressurized with nitrogen)
- ▶ Automatic or semi-automatic oil and contrast injection in the amount assumed by the operator or manual with visual inspection
- ▶ Recovering the remaining agent from the cables
- ▶ Manual operation
- ▶ Possibility to rinse the system with an agent
- ▶ Recording 20 most recently completed services
- ▶ Uncomplicated and cheap service
- ▶ Identification of the agent (optional)



Made in Italy

#### Specific information:

- ▶ Coolant: R1234yf
- ▶ Electronic weight of the coolant: - Accuracy +/- 10g
- ▶ Weight for used oil: - Accuracy +/- 1g
- ▶ Electronic vacuum gauge: Kl. 2.5
- ▶ Operating capacity: tank -7 kg R134a / 1234yf
- ▶ Molecular sieve filter and mechanical of thin mesh
- ▶ Vacuum pump 70 l / min
- ▶ Maximum vacuum of 0.05 mbar
- ▶ 3m cable with elongation
- ▶ Compressor capacity: 300g/min
- ▶ Thermal printer (optional)
- ▶ Agent identifier (optional)

#### The unit includes:

- ▶ Pair of protective gloves
- ▶ Goggles
- ▶ A set of connectors for the outer cylinder
- ▶ Standard calibration weights
- ▶ Allen key for locking / lowering the balance
- ▶ Manual



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CONNECTOR FOR NITROGEN



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## Alaska BUS

### 007950015220



ALASKA BUS is a fully automatic Magneti Marelli unit, designed for the diagnosis and operation of air conditioning systems. The device makes it easy to perform service interventions in two ways:

- 1) Manual operation: the operator performs recovery of the refrigerant, draining, oil injection, filling.
- 2) Automatic function: operations are performed automatically by selecting a car code from the database or automatically in programmable cycle (without the help of the operator by setting individual functions entered by the operator).

The database of cars, vans, trucks and agricultural machines improves the operator's performance and speeds up the operation of the air conditioning system. The station has a large tank and one of the most efficient vacuum pumps (226l / min), so it is recommended to work with large systems such as buses.



#### Equipment:

- ▶ Programmer, and high-end electronic electrovalve control system
- ▶ Safety valves
- ▶ Pressure sensors
- ▶ Additional radiator (with electric fan) of the coolant
- ▶ Three analog gauges
- ▶ Two manual valves
- ▶ Three tanks for: fresh oil, used and contrast
- ▶ Printer (optional)
- ▶ 5m service cables with extension
- ▶ Clear alphanumeric display
- ▶ Additional manometer indicating pressure in the inner cylinder
- ▶ An integrated electronic database that allows secondary identification of the vehicle based on the registration number along with the database of recently completed services
- ▶ Connector for Nitrogen (option)
- ▶ Connector for rinsing the system
- ▶ POE / UV tank (for hybrid vehicles with quick coupler)
- ▶ Heating belt

#### ALASKA BUS functions:

- ▶ Recovery of coolant contained in A / C
- ▶ Purification of mechanical pollutants
- ▶ Dewatering by filtration
- ▶ Separation of the refrigerant from the oil contained in the system
- ▶ Measurement of the amount of recovered refrigerant
- ▶ Measurement of the amount of recovered oil
- ▶ Test of the presence of residual factors in the system
- ▶ Dehumidification system with efficient vacuum pump
- ▶ System tightness test (vacuum or pressurized with nitrogen)
- ▶ Automatic or semiautomatic oil and contrast injection in the amount set by the operator or manual with visual inspection
- ▶ Recovering the remaining refrigerant from the hoses
- ▶ Manual operation
- ▶ Possibility to rinse the system with an refrigerant



- ▶ System Diagnostics with Print (optional)
  - ▶ Uncomplicated and cheap service
- Specific information:**
- ▶ Coolant: R134a
  - ▶ Electronic weight of the coolant: - accuracy +/- 10g
  - ▶ Electronic vacuum gauge: Kl. 2.5
  - ▶ Operating capacity: tank 27.2 l-25 kg R134a
  - ▶ Filter with molecular sieve and mechanical mesh
  - ▶ Vacuum pump 226 l / min
  - ▶ Maximum vacuum of 0.05 mbar
  - ▶ Cables 5m
  - ▶ Compressor capacity: 500g / min
  - ▶ Thermal printer (optional)
- The unit includes:**
- ▶ Pair of protective gloves
  - ▶ Protective goggles
  - ▶ A set of connectors for the outer cylinder
  - ▶ Standard calibration weights
  - ▶ Allen key for locking / lowering the balance
  - ▶ Manual



PRINTER



CONNECTOR FOR NITROGEN



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## Alaska PREMIUM

### 007950015230



ALASKA PREMIUM is a fully automatic Magneti Marelli unit, designed for the diagnosis and operation of air conditioning systems. The device makes it easy to perform service interventions in two ways:

- 1) Manual operation: the operator performs recovery of the refrigerant, draining, oil injection, filling, rinsing.
- 2) Automatic function: operations are performed automatically by selecting a car code from the database or automatically in programmable cycle (without the help of the operator by setting individual functions entered by the operator).

The device is equipped with a database of the latest service and diagnostics helpful in detecting faults in air conditioning as well as nitrogen test with the use of built-in pressure sensor. Rinsing function of the air conditioning system allows removing oil contamination. All operations shown on the LCD screen are continuously printed.



#### Equipment:

- ▶ Programmer, and high-end electronic electrovalve control system
- ▶ Safety valves
- ▶ Pressure sensors
- ▶ Pressure sensors in tank (pressure measurement in tank with alarm)
- ▶ Additional radiator (with electric fan) of the coolant
- ▶ Two analogue manometers with suggested pressure
- ▶ Thermal printer
- ▶ Built-in database with choice of passenger car, vans, trucks and agricultural machinery and the possibility of supplementing with additional vehicles with diagnostics and the database of the last services
- ▶ Electronic scales for oil and refrigerant
- ▶ Service cables 3m long with possibility of extension
- ▶ LCD display
- ▶ Four oil storage tanks for recovered, fresh oil, used, and contrast and oil for the hybrids vehicles, heating belt, connector for rinsing the system
- ▶ POE / UV tank (hybrids) with quick coupler
- ▶ Connector for nitrogen (max 15 bar), USB

#### ALASKA BUS functions:

- ▶ Recovery of coolant contained in A / C
- ▶ Cleaning mechanical pollutants
- ▶ Dewatering of the refrigerant by filtration
- ▶ Separation of the refrigerant from the oil contained in the system
- ▶ Measurement of the amount of recovered refrigerant
- ▶ Measurement of the amount of recovered oil
- ▶ Dehumidification of the system with efficient vacuum pump
- ▶ System tightness test
- ▶ Automatic or semiautomatic oil and contrast injection in the amount set by the operator or manual with visual inspection
- ▶ Recovering the remaining refrigerant from the hoses
- ▶ Manual operation
- ▶ Possibility to rinse the system with an refrigerant

- ▶ Diagnosis of the system along with printout, factor in / out factor
- ▶ Uncomplicated and cheap service
- ▶ Automatic or manual uncondensed gas release
- ▶ Database upgrade via USB
- ▶ Possibility of nitrogen connection and measurement with printout
- ▶ Ability to convert to R1234yf

#### Specific information:

- ▶ Coolant R134a / 1234yf
- ▶ Electronic coolant: - accuracy +/- 10 g
- ▶ Electronic weight of fresh / used oil: accuracy +/- 1 g
- ▶ Electronic vacuum gauge: Kl. 1.0
- ▶ 3m wires, low pressure gauges / high pressure: Kl. 1.6
- ▶ Internal tank capacity: 25kg / 27l
- ▶ Compressor capacity: 300g / min
- ▶ Pump capacity: 100 l / min
- ▶ Final vacuum level: 5 Pa - 0.05 mbar
- ▶ Molecular sieve filter
- ▶ Mechanical fine mesh filter, thermal printer
- ▶ Drukarka termiczna

#### The unit includes:

- ▶ Pair of protective gloves, safety goggles, set of external cylinder connections, standard calibration weight, Allen key for locking / lowering the balance, manual.

\* administration of fresh factor in the amount set up by the attendant



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CONNECTOR FOR NITROGEN



PRINTER



DATABASE CAR + TRUCK + AGRI



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WEIGHT BLOCK



HYBRID CARS OIL SERVICE

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# Alaska PREMIUM HFO

007950015240



ALASKA PREMIUM HFO is a device for filling and diagnostics of air conditioning systems using the new HFO-1234yf coolant. Equipped with fully automatic functions and complying with the European and US safety regulations as well as the provisions of the SAE (Society of Automotive Engineers) Directives. The performance of the ventilation system guarantees the best heat dissipation, and the placement of the tachometric fan at the bottom of the unit allows for removal also, the leaking gas and transporting it outwards through the ventilation system of the car workshop.

The two colling modes, developed in compliance with SAE standard, and in order to facilitate the operation of the operator, meet the requirements of the operating time of the workshop.

Additionally, it allows identification of the coolant with an optional identifier. The device is equipped with a database of the latest services and diagnostics helpful in detecting faults in air conditioning as well Nitrogen test with built-in pressure sensor. The air conditioning system rinses to remove oil contamination. All operations shown on the LCD screen are continuously printed. Innovative working alerts signal device malfunction, automotive installation and maintenance.



Made in Italy

Calibration and manuals available on-line



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**Equipment:**

- ▶ Programmer, and high-end electronic electrovalve control system
- ▶ Safety valves
- ▶ Pressure sensors
- ▶ Cylinder pressure sensor (pressure measurement in a bottle with an alarm)
- ▶ Additional radiator (with electric fan) of the coolant
- ▶ Two analogue manometers with suggested pressure
- ▶ Thermal printer
- ▶ Built-in database with choice of passenger car, vans, trucks and agricultural machinery and the possibility of supplementing with additional vehicles together with diagnostics and the database of the last services
- ▶ Electronic scales for oil and coolant
- ▶ Service cables 3m long with the possibility of extension compatible with J2888 standard, LCD display
- ▶ Four oil storage tanks for recovered, fresh oil, contrast and oil for hybrid vehicles, heating belt, connector for flushing system
- ▶ POE / UV tank (hybrids) with quick coupler
- ▶ Coolant Identifier (optional)
- ▶ Heating belt, nitrogen connection (max 15 bar) USB connector
- ▶ Parker quick connectors conforming to J2888

- ▶ Balance of in / out factor, uncomplicated and cheap service
- ▶ Balance of in / out factor, uncomplicated and cheap service
- ▶ Automatic or manual uncondensed gas release
- ▶ Database upgrade via USB
- ▶ Possibility of nitrogen connection and measurement with printout via a pressure sensor in the unit
- ▶ Identification of the coolant (Optional)

**Specification:**

- ▶ Coolant: R1234yf
- ▶ Electronic weight of the coolant: - accuracy of +/- 10 g
- ▶ Electronic weight of fresh / used oil: accuracy +/- 1 g
- ▶ Electronic vacuum gauge: Kl. 1.0
- ▶ Low pressure / high pressure gauges, pressure: Kl. 1.6
- ▶ Internal tank capacity: 10 kg, compressor capacity: 300g / min
- ▶ Cables 3m
- ▶ Pump capacity: 100 l / min
- ▶ Final vacuum stage: 5 Pa - 0.05 mbar
- ▶ Molecular sieve filter
- ▶ Fine mesh filter, Thermal printer

**The unit includes:**

Pair of protective gloves, safety goggles, set of external cylinder connections, standard calibration scales, Allen key for locking / lowering the balance, manual.

**Device features:**

- ▶ Recovery of coolant contained in A / C
- ▶ Purification of mechanical pollutants
- ▶ Dewatering of the refrigerant by filtration
- ▶ Separation of the refrigerant from the oil contained in the system
- ▶ Measurement of the amount of recovered refrigerant
- ▶ Test of the presence of residual factors in the system
- ▶ Dehumidification with efficient vacuum pump
- ▶ System tightness test
- ▶ Automatic or semiautomatic oil and contrast injection in the amount set by the operator or manual with visual inspection
- ▶ Recovering the remaining refrigerant from the hoses, manual operation
- ▶ Registration of functions performed in the form of a customer friendly printout
- ▶ Possibility to rinse the system with coolant, diagnosis of the system along with printout



Watch the movie on:



AIR CONDITIONING BENCHES COMPARATIVE TABLE					
	ALASKA START	ALASKA START HFO	ALASKA BUS	ALASKA PREMIUM	ALASKA PREMIUM HFO
1. Refrigerant	R134a	R1234yf	R134a	R134a (convertible at 1234yf)	R1234yf
2. Identification of the agent	No	Optional	No	No	Optional
3. Built-in database	Yes	Yes	Yes	Yes	Yes
4. Memory of recent operations	Yes	Yes	Yes	Yes	Yes
5. A/C Diagnostics	Yes	Yes	Yes	Yes	Yes
6. Built-in printer (with personalization of the printout)	Option	Option	Yes	Yes	Yes
7. HP-LP, HP, LP	Manual Valves	Manual Valves	Manual Valves	Solenoid Valves	Solenoid Valves
8. Recovery	Aut	Aut	Aut	Aut	Aut
9. Oil recovery	Aut without weight	Aut without weight	Aut without weight	Aut without weight	Aut without weight
10. Vacuum	Aut	Aut	Aut	Aut	Aut
11. Leakage Test	Aut	Aut	Aut	Aut	Aut
12. Loading Phase	Aut	Aut	Aut	Aut	Aut
13. Rinsing system	No	Yes	Yes	Yes	Yes
14. Operation with nitrogen kit	No	Option	Option	Option	Option
15. Empty Non condensable Gas	Aut. with Valve	Aut. with Valve	Aut. with Valve	Valve with Electrovalve Valve	Valve with Electrovalve Valve
16. Keyboard and Alphanumeric display	Alphanumeric min 4 x 20 (4 buttons)	Alphanumeric min 4 x 20 (4 buttons)	Alphanumeric min 4 x 20 (4 buttons)	LCD screen with buttons	LCD screen with buttons
17. Oil Injector (Auto-weight)	Based on time	Based on time	Based on time	Auto weight	Auto weight
18. UV Injection (Auto-weight)	Based on time	Based on time	Based on time	Based on time	Based on time
19. Manometers HP-LP	80 mm	80 mm	80 mm	80 mm	80 mm
20. Fresh Oil Container With Quick Coupler	Yes	Yes	Yes	Yes	Yes
21. POE / UV container (for hybrid cars) with quick coupler	No	Yes	Option	Yes	Yes
22. Hose length	3000 mm	3000 mm	5000 mm	3000 mm	3000 mm
23. Vacuum pump capacity	70 L	70 L	226 L	100 L	100 L
24. Vacuum	Min. 0,05 mBar	Min. 0,05 mBar	Min. 0,05 mBar	Min. 0,05 mBar	Min. 0,05 mBar
25. Compressor	9 cc	9 cc	14 cc	9 cc	9 cc
26. Heating belt	No	Yes	Yes	Yes	Yes
27. Inner bottle	10 kg	10 kg	25 kg	25 kg	10 kg
28. Cylinder pressure sensor with measurement of relative temperature	No	No	No	Yes	Yes
29. Pressure reading in the inner tank	No	Manometer	Manometer	Screen	Screen

Heating Belt For Container 12,5 L Tech Plus/Hd/Evo/Top/Next/Alaska  
**007935090760**

Heating Belt For Container 27,2 L Tech Plus/Hd/Evo/Top/Next/Alaska  
**007935090770**

Printer For Station Plus/Hd/Next  
**007935096320**

Printer for A/C units Alaska Start HFO /Alaska BUS  
**007950015510**

Mm6F / Mm7F Service Kit (Filter+Oil) mm 6F / mm 7F  
**007950024110**

Air Check / Clima Tech / Next Service Kit (Filter+Oil)(Suitable for all AC Machines Magneti Marelli+Bosch ACS 500,450,400,Silvertronic, Tronic, Delphi-series Refmatic)  
**007950024130**

Filter Robinair Spx Valeo Dimension 76Mm Lenght 275Mm  
**007950025050**

Filter Robinair Spx Valeo Dimension 90Mm Lenght 294Mm, M1/4"xM1/4" (ClimFill - Auto and Advance)  
**007950025060**

Filter Texa Dimension 76Mm Lenght 240 Mm Connector M3/8"x M3/8"(series 6xx)  
**007950025070**

Filter Texa Dimension 76Mm Lenght 240 Mm Connector M3/8"x M3/8"(series 7xx)  
**007950025560**

Filter Robinair/Bosch dimension 76Mm Lenght 235mm M3/8"xM3/8" (ACS 511,ACS 611,Robinair AC690 AC595)  
**007950025900**

Filter Brainbee/Valeo(BrainBee CLIMA 8000, 8250, 8500, 9000, 9000BUS,CLIMA FILL PROFI,CLIMA FILL MAXI)  
**007950025920**

Filter Brainbee dimension 76Mm lenght 160Mm, M1/4"xM1/4"(Brain Bee CLIMA 6000, 6000 EVO,CLIMA FILL EASY )  
**007950025930**

Filter for Magneti Marelli ,Bosch ACS 500,450,400,Silvertronic, Tronic,Delphiseria Refmatic) Ø76 mm lenght 230 mm connectors 3/8"  
**007950025055**

Vacuum Pump Oil 0,5 l For Diffrent Air Conditioning Stations  
**007935090600**

Vacuum Pump Oil 1,0 l For Diffrent Air Conditioning Stations  
**007950024880**

Vacuum Pump Oil 5,0l For Diffrent Air Conditioning Stations  
**007950026580**

## Ozon Maker 430104018045



1000  
mg/h



4000  
mg/h



## Ozonator MX4000 007936210010



### Ozon Maker - device producing ozone

The device, by ionizing the air, produces unstable allotropes of oxygen, i.e. ozone O<sub>3</sub>. 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 Ozon Maker devices. Ozone (O<sub>3</sub>) 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.

- ▶ 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: 1 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

### Ozonator MX4000 - device producing ozone

By ionising the atmospheric air, the MX4000 device produces an unstable allotropic form of oxygen – ozone O<sub>3</sub>. Ozone, as a very strong oxidiser, removes all contaminations from the cabin. It removes residual water collecting on the floor covering and A/C system evaporator. It also eliminates unpleasant odours as well as fungi, bacteria and viruses dangerous to our health. Due to its high level of efficiency – over 4000 mg/h – the device works well for buses and larger vehicle cabins, it also enables much quicker decontamination of passenger cars. Ozone (O<sub>3</sub>) is a part of atmospheric air, generated as an effect of ultraviolet radiation. Ozone is heavier than air, unstable and quickly decomposing.

The decomposition process contributes to the increase of air temperature, humidity and pollution. Ozone decomposes in water quicker than in the air. In its gaseous form, ozone is transparent, with a blue tint in thicker layers. Liquid ozone is dark blue, solid state – nearly black. Ozone is very strong oxidant, much more potent than regular oxygen.

- ▶ Ozone generator efficiency: 4000 mg/h
- ▶ External pump capacity: 10-15 l/min
- ▶ Programmable counter states: 1-60 min
- ▶ Pressure generated by the pump: 17 Kpa

Working environment: inside well-ventilated rooms without corrosive gases.

- ▶ Atmospheric operation conditions: 100±4 Kpa
- ▶ Operating temperature range: 5-40 °C
- ▶ Operating relative humidity: <80%
- ▶ Ozone generation method: corona discharges
- ▶ Outlet conduit diameter: 8 mm
- ▶ Power supply: AC 220-240V 50Hz



Watch the movie on:  
**YouTube**

Ultima ID Gas identifier without printer (R134a, R1234yf)

007935020000

### ULTIMA ID 1234yf/R1234yf REFRIGERANT ANALYSER:

- Fast and accurate coolant purity testing
- Displays the percentage concentration: R1234yf, R134a and hydrocarbons
- Clear and easy to interpretate test results
- USB updatable
- Increased oil resistance



### SPECIFICATIONS:

- Tested coolants: R1234yf, R134a
- Accuracy: Better than (+/-) 1.0%
- Displays the percentage concentration: R1234yf, R134a, HC, air
- Operating Temperature: 10°C to 50°C
- Power supply: 110/220 V, 50/60 Hz
- Communication protocols: USB 2.0
- User Interface: LCD + 3 buttons
- Certificates: CE, SAE
- Integral pump calibration: YES

Electronic Leak Detector For R1234yf Refrigerant

007950025830

Features and specifications:

- Detected gases: R-134A, R-404A, R407C, R-410A, R-22, 1234yf etc.
- Sensitivity: H M L R22,134a 3g / year 15g / year 30g / year R-404A, 407C, 410A 4g / year 20g / year 40g / year, 1234yf 3g / year 15g / year 30g / year
- Alarm mode: buzzer, bar with LEDs, indicator Tri-color
- Used power: 4 AA alkaline batteries (6V DC)
- Cable length: 40 cm (15.5 ")
- Dimension / Weight: 173 x 66 x 56 mm (approximately 400 g)
- Accessories: Alkaline batteries - 4 pieces
- User manual, leak control bottle, transport case
- Battery autonomy: approximately 7 hours in the event of normal use
- Automatic shutdown: 10 minutes
- Deactivation of the automatic switch-off: press the button "Hi" and then turn on the meter.
- Warm-up time: about 45 seconds
- Temperature and humidity during use: 0 - 40 ° C, <80% RH
- Temperature and storage humidity: -10 - 60 ° C, <70% RH
- Integral calibration: YES
- Oil contamination: Replaceable oil stop



Ultima ID Gas identifier with printer (R134a, R1234)

007935020010

### R1234yf REFRIGERANT ANALYSER:

- Fast and accurate coolant purity testing
- Displays the percentage concentration: R1234yf, R134a
- Clear and easy to interpretate printable test results
- USB updatable
- Increased oil resistance



### SPECIFICATIONS:

- Tested coolants: R1234yf, R134a
- Accuracy: better than (+/-) 1.0%
- Displays the percentage concentration: R1234yf, R134a, HC, air
- Operating Temperature: 10°C to 50°C
- Power supply: 110/220 V, 50/60 Hz
- Communication protocols: USB 2.0
- User Interface: LCD + 3 buttons
- Certificates: CE, SAE
- Integral pump calibration: YES

R1234YF Gas Analyzer  
007935021060

NEW



BESTSELLER

Gas Identifier R1234yf is a gas detection device that checks whether the refrigerant used for service and maintenance work on the climate control system of motor vehicles is R1234yf.

### Technical Data:

- Detected gas : R1234yf
- Measurement accuracy: 95%
- Power: 12V DC
- Sample factor as a pure oil-free agent
- Input pressure: 1.38 Bar - 20.70 Bar
- Operatin temperature: 10-45 oC
- Working temperature: 10-45°C

1234yf refrigerant gauge set (gauge, 3 hoses 1.80 m, HP and LP Quick-couplers)

007950024725

Set for a comprehensive checking leaks in automotive air conditioning systems operating on 1234yf refrigerant. Kit includes gauges, hoses and quickcouplers in aesthetic and durable carrying case.



Universal adapter LP to bottle with 1234yf

007950026670



Universal adapter HP to bottle with 1234yf

007950026680



Uv Dye 1234yf 350 ml

007950024910



Oil Pag For Refrigerant 1234yf 250 ml

007950024920



UV dye 1234YF 250 ml

007950024915



Oil Pag 100 for 1234yf 250ML

007950024925



Oil for hybrid cars for 1234YF

007950024685



Oil equal to PS D1 for 1234yf 250 ml

007950026330



UV Contrast in Injector for hybryde+cable 12 pcs

007950026350



UV Contrast in Injector for hybryde+cable 12 pc

007950026360

A/C Unit Hose - 250 Cm For Refrigerant 1234yf Red 1/4"SAE X1234yf

007950024950



A/C Unit Hose - 250 Cm For Refrigerant 1234yf Blue 1/4"SAE X1234Yf

007950024960



Quick Coupler Hp For 1234yf

007950024930



Quick coupler Lp For 1234y

007950024940



Quick coupler LP HFO 1234yf Parker

007935020120



Quickcoupler HP HFO 1234 yf Parkerr

007935020130



N2 Connection Kit For Next A/C Units

007935090850



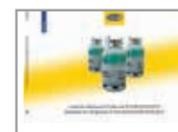
Warranty Extension 12 Months For All Units

099994910040



Booklet Database 2018

007935090895



Upgrade Usb For Ct Top Next/ Ct Top Maxi 2018

007935090891



Data Upgrade For Clima Tech Top 2017 Station - Memory Card

007935090890



Data Upgrade For Clima Tech Plus/Hd Next 2017 - Memory Card

007935090880



Data Upgrade For Clima Tech Mobile/ Evolution 2017 - Memory Card

007935090870

New Oil Or Uv Container For Clima Tech Plus / Hd / Evo/ Top / Next

007935096230



Used Oil Container For Clima Tech Top / Plus /Hd (Not For Ct TOP Next)

007935097100

Used and fresh Oil Container for Matic/ Plus old/Mobile (round)

007950013570



Oil Container for Clima Tech Top/Plus/ Hd Next/Alaska (round soft plastic)

007935090915

007935096770



Safety Cover For Air Check / Clima Tech / Next

007950015045



Hfo 1234Yf Conversion Kit FROM 134A TO 1234YF

007935090865

Conversion kit for A/C units Alaska Start HFO/ Alaska BUS. From R134A to R1234YF



007950015580

Hfo 1234Yf Conversion Kit FROM 1234YF TO 134A

007935090860



Kit For Covering Hybrid Cars For Clima Tech Plus/Hd Next

007935090835



Additional Set For A/C Flushing For A/C Machines

007950024060



Gas analyzer to Alsaka Start HFO/Alaska Premium HFO A/C filling units

007950015690



Ultrasonic Nebulizer  
Clean Air  
**007950025340**  
A devices with 24 pcs  
of „Pine“ Refreshing Spray  
**00794100201**



Aerosol spray is carried out by transferring the chemical solution to the surface of a piezoelectric crystal that vibrates at a frequency of between 15 and 20 kHz. This vibration creates a mist floating on the ultrasonic transducer which is driven by the fan to the outlet of the device. The, it is absorbed by the recirculated air causing it to clean and eliminate bacteria and odors.

The main advantage of the method is to produce a thin ultrasonic mist at room temperature. Therefore, the particles are not too easily settle on surfaces encountered. This prevents condensation due to the higher temperature of the fluid vaporized in comparison with the environment. Coarse drops are removed during the impact with the walls of the chamber and only those with a diameter of about 5 to 10µm are able to enter the air vents.

Ultrasonic frequency module: 1,7Mhz  
Voltage: 240V  
Power: 40W  
Capacity: 250ml / h  
Temperature: 1°C to 60°C  
Storage temperature: -30°C to 90°C  
Dimensions: 240x185x120mm



Set Of 2 Decontamination Sprays  
100 MI Foam And 150 MI  
"Granate"



**007950024870**



Decontamination Foam 400 MI  
**007950025630**



Refreshing spray Magneti Marelli is a guarantee of fresh smell and hygienic and clean car cabin. Disposable "pomegranate" allows you to quickly remove bacteria, fungi and refresh the smell in the cabin of the vehicle.



Decontamination Spray - Singel-Use  
"Granate" 200 MI Lavender  
**007950024020**  
Decontamination Spray - Singel-Use  
"Granate" 200 MI Pine  
**007950024021**  
Decontamination Spray - Singel-Use  
"Granate" 200 MI Musk  
**007950024022**  
Decontamination Spray - Singel-Use  
"Granate" 200 MI Talk  
**007950026510**  
Decontamination Spray - Singel-Use  
"Granate" 200 MI Vanilia  
**007950026520**



Decontamination  
Liquid 5L  
**007950025150**



Condensed Decontamination  
Liquid 1L  
**007950025160**



Fluid For Ultrasonic Nebulizer -  
Universal 1 L  
**007950025490**



Fluid For Ultrasonic  
Nebulizer -  
Universal 5 L  
**007950025500**



Cleaning Liquid For A/C System  
Elements (Active Foam) 5 L  
**007950025180**



Decontamination spray 400 ml  
with pipe (multiuse)  
**007950024900**



Cleaning Spray  
For Condenser 400 MI (2pcs)  
**007950024050**



Set of fluids for ultrasonic  
nebulizer 3 fragrances-24 pcs  
(8 pcs of each fragrance)  
**007950026530**  
Fluid For Ultrasonic Nebulizer Pine  
50 MI 24 pcs  
**007950025350**  
Fluid For Ultrasonic Nebulizer Lavenda  
50 MI 24 pcs  
**007950025360**  
Fluid For Ultrasonic Nebulizer Musk  
50 MI 24 pcs  
**007950025370**



R134A Gas Analyzer  
**007935090940**

**MINI ID - R134a  
REFRIGERANT  
ANALYZER:**

At the moment on the automotive market there is refrigerant. To prevent damage to the air conditioning system in your car or station air conditioning maintenance, control of quality factor. Mini ID is able to verify the quality of R134a refrigerant for air too much content as well as propane or butane pollution.

**SPECIFICATIONS:**

- Weight: 0.8kg
- Supported factors: R134a (Tetrafluoroethane)
- Tolerance: Correct / Incorrect - 95% Pure R134a
- Certificates: SAE J1771 and CE
- User Interface: Membrane buttons with indicator lamps
- The calibration method: Manual pump
- Storage temperature: -10°C to + 50°C
- Operating temperature: + 10°C to + 45°C



Identifier And Analyzer For Cooling  
Gases Hvac  
**007935090950**



**ULTIMA ID-TECH -  
IDI ANALYZER FOR GAS COOLING:**

Ultima ID-tech allows for verification of R134a, R22, R12, R407C, R410, R404A, together with the determination of the air and the amount of hydrocarbons. The result can be confirmed by printing (optional).

**SPECIFICATIONS:**

- Power supply: 12 V DC @ 2A via 110/220 VAC adapter; Optional AA batteries
- Certificates: CE, UL and CUL
- User Interface: Graphical, buttons, built-in printer
- Sample gas: Pressure from the cylinder
- Temperature range: 10 ° C to 37.7 ° C
- Response time: Less than 3 Minutes
- Humidity: 0-95% RH
- The weight of the sample gas: 5g per test
- Working pressure: 50 psi - 500 psi

Pirometer/Laser  
Thermometer  
**007950013810**



Professional device for measuring the temperature of objects moving, inaccessible or dangerous to the touch. The pyrometer is equipped with a laser sight, precisely defining the place of measurement, has a high accuracy to within 0.1 ° C. Allows for 15 hours continuous operation.

Pwm Valves  
Simulator  
and Tester  
**007935063040**



MM vcomp serves as a direct power supply to 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 equipment. With MM vcomp, you can add new aspects to the A/C system diagnostics you offer.

**TECHNICAL SPECIFICATIONS:**

- Power supply: 11-15 V
- Temperature range: -10°C to +40°C
- Storage temperature: -20°C to +50°C
- Current intake: max. 3A
- Compressor control efficiency: 3%-100%

Currently supported models:

**Denso:** 5SER09, 5SE09C, 6SEU14, 6SEU16, 7SEU16, 7SEU17  
**Sanden:** PXE13, PXE16



Thermometer  
**007950024030**



- Temperature range: -50°C do +300°C



Dual Infrared  
Thermometer / Contact  
**007950013830**

Accurate thermometers, necessary in diagnosing systemsC - laser thermometer, thermometer with probe or infrared digital thermometer.

A set for viewing the quality of refrigerant and oil in the air conditioning system, allows the observation of the flow of refrigerant and simultaneous filtration of pollutants

**007950024780**

**Included:**  
Cylinder with filter  
Blue hose 2.5 m 1/4"  
Yellow hose 1 m 1/4"  
HP quick coupler  
LP quick coupler



Compressor And Compressor  
Parts Dismounting Tool Kit Full

**007950016010**

Set includes:

- Key to pull the seal York Handle to the compressor The key to drive the bearing Diesel Kiki;
- The key to setting up the clutch Diesel Kiki;
- The key to remove and attach the pulley bearings;
- Spindle pulley;
- Body puller;
- Universal key to the clutch;
- The key to downloading and reinstalling the seal; Protective sleeve seals;
- The key to setting up the clutch disc;
- The key to removing the clutch disc brand NIPPONDENSO;
- The key to the prosecution nut Diesel Kiki;



Extended set for disassembly of compressor components

**007950016020**

Complete set For removing elements compressor. Contain all of the tools necessary to replace seals, clutches and clutch bearings in equipment brand Diesel Kiki (Zexel), Hitachi, Mitsubishi, NIPPONDENSO, Seiko-Seiki and Sanden 505, 508, 510, 575, 708 and 709. Set was packed in foam cut pockets and enclosed in a hard metal tool box. The set is accompanied by instructions.

**Set includes:**

- Key to pull the seal York
- Handle to the compressor
- The key to drive the bearing Diesel Kiki
- The key to setting up the clutch Diesel Kiki
- The key to remove and attach the pulley bearings
- Spindle pulley
- Body puller
- Universal key to the clutch
- The key to downloading and reinstalling the seal
- Protective sleeve seals
- The key to setting up the clutch disc
- The key to removing the clutch disc brand NIPPONDENSO
- The key to the prosecution nut Diesel Kik



Quick Coupler LP 1/4" SAE

**007950013780**



Quick Coupler HP 1/4" SAE

**007950013790**



Basic set for disassembly  
of compressor components

**007950016030**

The basic set to dismantle parts of the compressor kit includes:

- Universal key to the clutch
- Key to remove the blade and clutch company Sanden
- SD 5 and 7bearing
- The key to inserting / removing the clutch disc metric
- The key to inserting / removing the clutch disc gradual
- Chrysler C171 / Ford S 61 Hitachi-MI / Tecumseh Hr-9801
- Key removing / attaching NIPPONDENSO GP / 109
- put off spindle clutch disc.



Electronic Scale 80 kg

**007950025380**

It allows you to accurately measure the amount of refrigerants. It has a solid one base for the cylinder. Maximum load 80 kg. It has an electronic display with a scale of 10g accuracy. The scale is in a durable and handy case.



Tool For Dismounting  
Valve Core  
(Without Recovery Of  
Refrigerant)

**007950025200**



Blue Hose 2500 Mm  
F 1/4" X F 1/4" 180D

**007950013760**

Blue Hose 4000 Mm  
F 1/4" X F 1/4" 180D

**007950024730**

A/C Unit Hose - 250 cm For  
Refrigerant 1234yf Blue 1/4"SAE  
X1234yf

**007950024960**

A/C Unit Hose - 400 Cm For  
Refrigerant 1234yf Blue 1/4"SAE  
X1234Y

**007950024965**



Red Hose 2500 Mm  
F 1/4" X F 1/4" 180D

**007950013770**

Red Hose 4000 Mm  
F 1/4" X F 1/4" 180D

**007950024720**

A/C Unit Hose - 250 Cm For Refrigerant  
1234yf Red 1/4"SAE X1234Yf

**007950024950**

A/C Unit Hose - 400 Cm For Refrigerant  
1234yf Red 1/4"SAE X1234Yf

**007950024955**



Quick Coupler 180° 1/4"LP  
**007950024000**



Quick Coupler 180°1/4"HP  
**007950024010**



Quick Coupler HP M14  
x1.5 with connector on  
1/4 "SAE Male

**007950024930**



Quick Coupler Lp For  
1234yf

**007950024940**



Quick Coupler HP M14  
x1.5 with connector on  
1/4 "SAE Male

**007950025230**



Quick Coupler LP M14  
x1.5 with connector on  
1/4 "SAE Male

**007950025240**



Quickcoupler Parker®  
low pressure LP M14x  
1.5mm

**007935020080**



Quickcoupler Parker®  
high pressure HP M14x  
1.5mm

**007935020090**



Quickcoupler Parker® low  
pressure LP 1/4" SAE

**007935020100**



Additional Filter

**007950013800**



Quickcoupler Parker® high  
pressure HP 1/4" SAE

**007935020110**



Quickcoupler LP HFO  
1234 yf Parker

**007935020120**



Quickcoupler HP HFO  
1234 yf Parker

**007935020130**



Quick Coupler BMW

**007950024560**



Quick Coupler For Renault Hp-Lp

**007950025250**



O-Rings Holder

**007950024820**



Ford Kit Springlock 4 Pieces

**007950024760**



Opel Kit Springlock  
4 Pieces

**007950024770**



Spring Lock Tool Lp  
Hose For Toyota

**007950025020**



Spring Lock Tool Hp  
Hose For Toyota

**007950025030**



Condenser Fin Comb  
**007950025040**



Refrigerant R1234yf  
(007950014325), complete  
with 007950014561  
**007950014325**  
Returnable reusable  
cylinder, 5 kg  
**007950014561**



Dupont adapter for cylinder  
for a new refrigerant  
**007950025800**



Honeywell adapter for cylinder  
for a new refrigerant  
**007950025810**



HP adapter for Dupont  
container  
**007950026650**



Adapter Hp do  
butli Honeywell  
**007950026660**



Filter for Ultima  
**007935020020**



Thermal paper  
for Ultima analyzers  
**007935020030**



Oil Injector 1/4"Fl X 1/4"Mil  
**007950014140**



3W + UV Swivel Light  
**007935030020**

Magneti Marelli Workshop lamps have  
robust chasis and IP54 resistance class:  
usb and 230V charge

- bottom with magnet
- breaking 120
- Hooks
- led with UV 3W
- + UV Beacon

**FEATURES AND SPECIFICATIONS:**

- 3W front COBLED provide> 240 lumens
- The upper LED with UV 395 ~ 410um
- The rotation of 120 degrees
- magnet in the lower part of the handle
- Clip-on "nest" in the lower / upper part of th handle
- Charging socket with level indicator
- 2-3 hours
- 3-4 hours to recharge
- Adapter 5V 1A CE mini-USB cable



Swivel 3W Workshop LampCOB LED  
+ UV mini front lighting  
**007935030130**

**FEATURES AND SPECIFICATIONS:**

- 0.9W front COBLED provide 90-110 lumens
- upper LED with UV 395-410um
- the rotation of 120 degrees magnet in the lower part of the handle
- charging socket with level indicator
- 2.5-3 working hours
- incl. mini-USB



UV Lamp 12V/50W (Additionally  
Oil With UV + Uv Dye Cleaner)

**007935090120**

Magneti Marelli UV lamp set  
allowing quick detection  
Leaks in automotive  
air conditioning systems.

- 50W UV lamp with rotary end
- oil (PAG) with contrast
- goggles
- Spray to remove the contrast



Uv Lamp 100 W  
**007950024700**

**The set includes:**

- UV lamp 100W
- Safety glasses



UV Lamp 50W With Charger  
And Battery

**007950025190**

**The set includes:**  
UV LAMP 50W CHARGER And  
Spectacle (INTERNAL BATTERY  
+ Loading ARKA)



1234yf refrigerant gauge set (gauge,  
3 hoses 1.80 m, HP and LP Quick-  
couplers)

**007950024725**

Set for a comprehensive checking leaks  
in automotive air conditioning systems  
operating on 1234yf refrigerant.  
Kit includes gauges, hoses and  
quickcouplers in aesthetic and durable  
carrying case.



Uv Lamp 9 Led With Battery  
**007950025840**

Compact source of UV light to help  
detect leaks in automotive air  
conditioning systems.  
Durable aluminum Led.  
Power Box.Contain 9 LEDs Battery.



Special UV Glasses  
**007950025280**



Manometers Set  
1/4" 63mm  
**430104017091**



Manometers for 1234yf  
**007950024715**

Manometer for checking leaks  
in automotive air conditioning  
systems filled with 1234yf.  
The set consists of two manometers  
mounted on a common collector  
equipped with connecting pipes.  
(WITHOUT CABLES)



Electronic Leak Detector  
With Uv Lamp  
**007950013850**

Allows for a quick leak localization  
in the system by the use of an electronic  
probe or a UV lamp.

**SPECIFICATION:**

- 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 Hydrogen  
**007950013840**

Allows for a quick leak localization  
in the system by the use of an  
electronic probe..

**FEATURES AND SPECIFICATIONS:**

- 3 sensitivity degrees (5 detection degrees)
- three-color electronic scale indicating the volume of leakage
- detects leaks up to 3 gr/year
- detects Hydrogen
- flexible probe 43cm long
- battery test
- an audible alarm indicating the scale of leakage
- mute function
- UV protective goggles / very bright UV diode lamp



## Mobile Set For Hydrogen Tests 007950025880

**Kit for testing the leak nitrogen / hydrogen (hydrogen) (1 kg hydrogen cylinder, regu-lator and pressure gauge 40 bar , the detector shut-off valve)**

Set for a comprehensive checking leaks in automotive air conditioning systems operating on R134 factor and 1234yf. The kit includes an electronic leak detector, pressure gauges and wires wrapped in aesthetic and durable carrying case. Mixture inside the container is 5% hydrogen and 95% nitrogen. It has smaller particles than nitrogen allowing the detection of smaller leaks and control through a detector which can not be on the pure nitrogen.

**The kit includes:**

- ▶ electronic leakage detector, hydrogen
- ▶ pressure gauges and conduits placed in a neat and durable case
- ▶ pressure reducer
- ▶ reducer adapter
- ▶ 1 l hydrogen container
- ▶ pressure gauge with scale for measurement
- ▶ HP quick connection coupling for the R1234yf and 1234yf refrigerants



Calibration and manuals  
available on-line



Watch the  
movie on:

Electronic Leak Detector  
Hydrogen  
**007950025820**



Allows for a quick leak localization in the system by the use of an electronic probe.

	H	M	L
95% N2, 5% H2	2g/year	15g/year	30g/year

**Features and specifications:**

- 6 sensitivity degrees (15 detection degrees)
- three-color electronic scale indicating the volume of leakage
- detects leaks up to 3 gr/year
- detects Hydrogen
- flexible probe 43cm long
- battery test
- an audible alarm indicating the scale of leakage
- mute function
- UV protective goggles
- very bright UV diode lamp



Hydrogen Electronic Leak  
Detector 1234yf  
**007950025830**



Allows you to easily locate the leak in the system with the help of electronic signaling probe audibly or visually leak.

**Features and specifications:**

- Detectable gases: R-134A, R-404A, R407C, R-410A, R-22, 1234yf
- Sensitivity: H M L R22, 134a 3g/year 15g/rok 30g/year R-404A, 407C, 410A 4g/year 20g/year 40g/year 1234yf 3g/year 15g/year 30g/year
- Alarm mode: buzzer, diode bar, tri-color indicator
- Used Power: 4 AA alkaline batteries (6V DC)
- Cable length: 40 cm (15.5 ")
- Dimension / Weight: 173 x 66 x 56 mm (approximately 400 g)
- Akcesoria: Baterie alkaliczne - 4 szt., instrukcja obsługi, fiakon
- Accessories: Alkaline batteries - 4 pieces
- Manual, bottle leakage control, carrying case for transporting



Manometer Kit+Hoses 2.5 m  
M+Quickcouplers  
**007950024710**



- A set of gauges:
- suitcase
  - manometers
  - 3 wires (180 m)
  - 2 quick.



Diode UV  
**430104017590**



Sensor For Electronic Leak Detector  
**007950014310**

Sensor for electronic leak detector hydrogen  
**007950027010**



Electronic Leak Detector for  
HFC, R134A, R1234yf, Hydrogen  
**007950027000**



Microprocessor control with advanced digital signal processing.

- Multicolor display
- High-medium-low selector switch of leakage detection sensitivity
- Low battery indicator
- Semiconductor gas sensor
- Detection of 5% hydrogen (H2) + 95% nitrogen (N)
- Carrying case included
- 15.5 "(40 cm) flexible stainless steel probe
- A reference leakage source is included
- Resetting the surrounding concentration
- High-current DC brushless fan
- Automatic zero and background compensation



**Features and specifications:**

Detected gases: R-134A, R-404A, R407C, R-410A, R-22, 1234yf itp. Description:

	H	M	L
R22, 134a	3g/year	15g/year	30g/year
R-404A, 407C, 410A	4g/year	20g/year	40g/year
1234yf	3g/year	15g/year	30g/year

Detected gases: 5% hydrogen (H2) + 95% nitrogen (N)  
Sensitivity: less than 5 ppm

	H	M	L
95% N2, 5% H2	2g/year	15g/year	30g/year

- Alarm mode: buzzer, LED strip, tri-color indicator
- Used power: 4 AA alkaline batteries (6V DC)
- Cable length: 40 cm (15.5 ")
- Dimensions / Weight: 173 x 66 x 56 mm (approximately 400 g)
- Accessories: Alkaline batteries - 4pcs Service manual, bottle for leakage control, transport case
- Battery autonomy: Approx. 7 hours in case of normal use
- Automatic shutdown: 10 minutes
- Turn off the automatic shutdown: press the button "Hi" and then turn on the meter
- Warm-up time: approx. 45 seconds
- Temperature and humidity in use: 0 - 40 ° C, <80% RH
- Storage temperature and humidity: -10 - 60 ° C, <70% RH
- Altitude: <2000M (6500 ")

Digital gauge 1/4"  
**007950014300**



A set of digital gauges allow for advanced leak tests of automotive air conditioning systems. The kit includes an integrated digital module manifold equipped with a 1/2 "and valves.

**TECHNICAL DATA:**

- Refrigerant: R134a
- Displayed parameters: page LP - PSI, Bar, bar, kg / cm2 and IN-Hg, p HP: Bar, bar kg / cm2
- Temperature display range: -4 to 93 ° C
- Response time: 250 ms
- Connectors: 1/2 "
- Operating temperature: 0 to 45 ° C
- Power: 9V battery
- Battery Life: 350 hours continuous operation
- Low battery indicator: the icon on the display
- The ability to upgrade the software



NEW

**AC Flush PRO**  
**007935110700**



This device in a new release that allows full air conditioning system maintenance and replacement of liquids in air conditioning systems and cleaning of the air conditioner during operation. The AC FLUSH PRO is powered by a 12V power supply using a car battery, which allows it to be used independently of the power supply, for example in the field. Small Dimensions allow you to carry AC FLUSH PRO in smaller vehicles and at the same time it is easy to be stored in hard to reach areas. The device is designed to work under high pressure so you can feel safe even in unpredictable situations. As one of the few in the market, it allows you to print out the system's rinsing process. Use a non-flammable liquid for air conditioning systems.

**TECHNICAL PARAMETERS:**

- ▶ Power supply: 12V car battery..
- ▶ Cables, hydraulic components and fittings: Three-wire steel tubing with Viton seal. Internal electrical cable - IDEALCARBUR 3/4 with external insulation to protect the wires in the recharging area.
- ▶ Pump: Maximum flow = 4.5 liters / min
- ▶ Maximum pressure = 5 bar
- ▶ Dimensions: Width = 610 mm
- ▶ Height = 1030 mm
- ▶ Depth = 560 mm
- ▶ Weight: ~ 50 kg
- ▶ Operating temperature: +7 ° C do +40 ° C



Watch the movie on:  
**YouTube**



**Cool Weather**  
**007950024620**



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.

**THE KIT INCLUDES:**

- ▶ clamps for connecting the elements
- ▶ the device
- ▶ removable filter
- ▶ a set of tips

**ACCESSORIES**

Flushing Device  
For Buses

**007950025000**

Manual Flushing Kit

**007950024740**



Set of flushing adaptors - extended set for european, asian and american cars

**007936210020**

Set of flushing adaptors- extended universal

**007936210730**



Pneumatic device for flushing air conditioning systems with pulsation Super Flush (without adapters)

**007936210770**



SuperFlush is an innovative solution dedicated to professionals, servicing and servicing air conditioning systems in all types of vehicles. The device allows for cleaning the interior of the system and removing deposits, oil deposits or metal filings that appear when the air-conditioning compressor is damaged. Pulse rinsing and the ability to change the direction of rinsing are the most effective cleaning methods that Super Flush allows. This effective device also has a smooth regulation of pulsation pressure and 2 filters, one metal-coarse cleaning, the other microfiber - allowing the removal of the smallest impurities. The 4 L tank allows you to flush almost any system with a capacity of 3-4 kg. The device is not standard equipped with adapters, which need to be purchased separately.



**INCLUDED:**

- SuperFlush device
- 2 wires 2m with 1/4 "thread
- spare microfiber filter
- a key for changing the filter
- funnel
- user manual

**TECHNICAL PARAMETERS:**

- Tank capacity: 4l
- Pressure: 5 ~ 7 kg / cm2
- Dimensions: 520 x 520 x 900
- Weight: 25 kg

**CHARACTERISTIC:**

- the device is completely safe when working with solvents
- the device does not have sparking components
- the drive comes from a pneumatic pulse pump
- device equipped with 2 filters
- accuracy of 1µm and 5µm
- dedicated for use with flammable liquids to flush the air conditioning

Universal UV dye for R134a/R1234yf/Hybrid 250 ml

**007950027160**



Universal UV dye for R134a/R1234yf/Hybrid 1000 ml

**007950027170**



180 HP quick snap coupler for R1234yf refrigerant

**007950027060**



180 LP quick snap coupler for R1234yf refrigerant

**007950027030**



Leak detection kit for hybrid systems and refrigerants R134a / R1234yf

**007936210750**



**INCLUDED:**

- contrast / oil manual dispenser
- 50 W UV lamp
- glasses



Complete kit for nitrogen testing up to 35 bar

**007936210760**



**INCLUDED:**

- 35 bar reducer
- 2.5 m hose
- HP R134a quick coupler
- 40 bar test gauge
- connection hose 1m yellow
- suitcase



Extension for LP port for R1234yf

**007950027040**



Extension for HP port for R1234yf

**007950027070**



LP adapter for R1234yf x 1/4 "SAE

**007950027020**



HP adapter for R1234yf x 1/4 "SAE

**007950027050**



Oil For Hybrid Cars for R134a equal to ND 11 250 ml (without Sanden)

**007950024680**



Universal oil for hybrid vehicles / R1234yf 250 ml

**007950027080**



Universal oil for hybrid vehicles / R1234yf 1000 ml

**007950027090**



Contrast Universal for R134A / R1234yf / Hybrid 250 ml

**007950027160**



Contrast Universal for R134A / R1234yf/Hybrid 1000 ml

**007950027170**



Uv Dye 1234 Yf 350 ml

**007950024910**



Oil equal to SPA 2 for 1234yf 250 ml (electrical compressors Sanden)

**007950026335**



Oil Pag For Refrigerant 1234Yf equal to ND 12 250 ml (mechanical compressors)

**007950024920**



Universal leak stop for Hybrid / Refrigerant R134a / R1234yf in a 6 ml syringe

**007950027100**



Universal leak stop for Hybrid / Refrigerant R134a / R1234yf in a 6 ml syringe + Adapter for R134a

**007950027110**



Universal leak stop for Hybrid / Refrigerant R134a / R1234yf in a 6 ml syringe + adapter for R1234yf

**007950027120**



Universal UV leak stop for Hybrid / Refrigerant R134a / R1234yf in a 6 ml syringe

**007950027130**



Universal leak stop with UV for Hybrid / Refrigerant R134a / R1234yf in a 6 ml syringe + Adapter for R134a

**007950027140**



Mobile Set For Nitrogen Tests (1 Kg Nitrogen Bottle, Reducer, Pressure Gauge 40 Bar)

**007950025860**

Leak test kit for automotive air-conditioning system with nitrogen.

**The kit includes:**

- Case of polypropylene
- Pressure regulator for cylinders with a capacity of 5 liters
- Pressure gauge with hose and a three-way valve
- The yellow wire 1500mm
- Bottle Hydrogen (a mixture of nitrogen and hydrogen) - 1 liter
- Reduction for cylinders with a capacity of 1 liter
- Leak Detector hydrogenu



Manometer 40 Bar with hose 30 Cm and valve

**007950025870**



Cylinder With Hydrogen 1L

**007950025890**



Flushing Device For Buses

**007950025390**

Apparatus for washing systems with greater capacity only for use with non-flammable liquids.

**TECHNICAL DATA:**

- Power: 0.5 HP
- Power supply: 230 V
- A flow reducer 100 to 25%
- The valve flow direction
- Dimensions: 25,5x35x20 cm
- Weight: 8,20 kg



Adapters Kit For Flushing Machine - Basic

**007950024750**

SET FOR AIR CONDITIONING FLUSHING SYSTEMS MANUAL (SET TERMINAL + CYLINDER + TANK). Rinsing package is powered by compressed air. Cylinder filled with liquid enables pulsed manual lavage systems.



Nitrogen bottle 5L

**007950024970**



Nitrogen bottle 1L

**007950024980**



Pressure Reducer For Nitrogen 1L

**007950025310**



Pressure Reducer For Nitrogen Professional (Max 34 Bar)

**007950024990**



Professional reducer allowing the pressure change occurring in the nitrogen cylinder.

Special Orings Set 88Pcs

**007950024090**



Sealing Washers Set 36 pcs

**007950025090**



Set Of Orings Full 361 pcs

**007950025510**



Orings And Spring Locks Set (Ford And Gm)(60 Pcs)

**007935090930**



Ac Flushing Fluid 1 L flammable (for pneumatic devices)

**007950024530**

Ac Flushing Fluid 5 L flammable (for pneumatic devices)

**007950024540**

Ac Flushing Fluid 20 L flammable (for pneumatic devices)

**007950024550**

Ac Flushing Fluid 1 L non-flammable

**007950026620**

Ac Flushing Fluid 5 L non-flammable

**007950026630**

Ac Flushing Fluid 20 L non-flammable

**007950026640**



Sealing Wit Metal 4pcs Internal Diam 17,7 Mm

**007950025530**

Sealing Wit Meta 4pcs Internal Diam 14,7 Mm

**007950025540**

Sealing Wit Meta 4pcs Internal Diam 11,7 Mm

**007950025550**



Set Of 29 diffrent types Orings 435 Pcs

**007950025520**



Set For Fixing Hoses And Quick Couplers (90Pcs)

**007935090931**



Set Of 256 violet o-rings

**007936210720**



Fiat Group Orings Kit 152 pcs

**007935090690**



Universal Orings Set 172 pcs

**007935090750**



Standard Orings Set 120 pcs

**007950024080**



O-Ring N° 6 (10Pcs)

**007950024150**

O-Ring N° 10 (10Pcs)

**007950024160**

O-Ring N° 8 (10Pcs)

**007950024170**

O-Ring Evaporator

**007950024180**

O-Ring 11,13 X 9,25

Press. M (10Pcs)

**007950024200**

O-Ring 6,7 X 5,1(10Spcs)

**007950024205**

O-Ring 7,5 X 10,3 G6

Denso (10Pcs)

**007950024210**

O-Ring 24,4 X 20 Comp.

Denso(10Pcs)

**007950024220**

O-Ring 12,7 X 10,3 G8

Denso(10Pcs)

**007950024230**

Sealing Oring, Inner Diameter.

17,7Mm(3Pcs)

**007950024260**

Sealing Oring, Inner Diameter.

14,7Mm (3pcs)

**007950024270**

Sealing Oring, Inner Diameter.

11,7Mm (3Pcs)

**007950024280**

Sealing Oring, Inner Diameter.

8,7Mm(3 Pcs)

**007950024290**

Dubble Oring, Outer Diameter

15,4Mm(5Pcs)

**007950024300**

Dubble Oring, Outer Diameter.

10Mm(5Pcs)

**007950024310**

Dubble Oring, Outer Diameter.

18Mm(5Pcs)

**007950024320**

O-Ring 24,4 X 20 Denso(10Pcs)

**007950024330**

O-Ring 23,7 X 20,22

Harrison(10Pcs)

**007950024340**

O-Ring 9Mm(10Pcs)

**007950024360**

O-Ring Peugeot 6460P2 (5Pcs)

**007950024370**

O-Ring Peugeot 6460P1 (5Pcs)

**007950024380**

O-Ring Renault 1-7701207274

(5Pcs)

**007950024390**

O-Ring Renault 2-7701207274

(5Pcs)

**007950024400**

O-Ring Renault 3-7701207274

(5Pcs)

**007950024410**

O-Ring 8 Mm (10Pcs)

**007950024450**

PACK 10 Sealing washers for compressors

**007950026135**

PACK 10 Sealing washers for compressors

**007950026140**

**007950026145**

**007950026150**

**007950026155**

PACK 10 Sealing washers for compressors

**007950026160**



Set Of Caps And Service Ports 69 pcs

**007950025260**



Protective Cap R134A  
Lp (2Pcs)  
**007950024240**



Protective Cap R134A  
Hp(2Pcs)  
**007950024250**



Protective Cap R134A Lp  
(2Pcs) - Japanese Cars  
**007950025290**



Protective Cap R134A Hp  
(2Pcs) - Japanese Cars  
**007950025300**



Black CAP 1/4" 1pc  
**007950026235**  
Black CAP 3/16" 1pc  
**007950026240**



HIGH PRESSURE CAP  
M10x1 1pc  
**007950026245**



LOW PRESSURE CAP  
M8x1 1pc  
**007950026250**



HIGH PRESSURE CAP  
M10x1,25 1pc  
**007950026255**



CAP LOW PRESSURE  
M9x1 1pc  
**007950026260**



CAP HIGH PRESSURE  
M10x1 1pc  
**007950026265**  
LOW PRESSURE CAP  
M8x1 1pc  
**007950026265**



Adaptor Hp Ford M 10 X 1,25  
**007950024800**



Service Port HP 15 x 1,0  
**007950024580**  
Service Port LP 13 x 1  
**007950024590**



Service Port Hp 12 X 1,5  
**007950024600**



Adapter M1/4 Sae X M1234Yf  
**007950025780**



Adapter M3/8 Sae X M1234Yf  
**007950025790**



Adaptor for bottle R134 W21,8  
x1/14 X 13 Mm(big valve)  
**007950024100**



Adapter for bottle R134A  
W21,8 x1/14" X 13 Mm (big  
valve)+ Adaptor for HP  
quickcoupler1/4" SAE (7/16")  
**007950024810**



High Pressure Adaptor  
1/4" X 13 Mm  
**007950024840**



Hoses Connector 1/4 X 1/4" Sae  
**007950024040**



ADAPTER FEMALE 3/8"  
x MALE 1/4" 1pc  
**007950026275**



ADAPTER FEMALE 1/4"  
x MALE 3/8" 1pc  
**007950026280**



ADAPTER MALE 1/2"  
x MALE 1/4" 1pc  
**007950026285**



ADAPTER MALE 1/4"  
x MALE 1/8 1pc  
**007950026290**



ADAPTER FEMALE 1/4"  
x FEMALE 1/4" 1pc  
**007950026295**



CYLINDER ADAPTER  
3/8" 1pc  
**007950026300**



ADAPTER FEMALE 1/2"  
x MALE 1/4" 1pc  
**007950026305**



Service Valves Kit 33Pcs  
**007950024070**



Valve core Serwisowy  
Stadardowy (10Pcs)  
**007950024190**



Valve core R12/R134  
19 x 5,1 Mm (10Pcs)  
**007950024420**



Valve core JRA  
21,55 x 7,8 mm(5Pcs)  
**007950024430**



Orifice Tube Set 18 pcs  
**007950024570**



Set of service valve cores  
(10 different valve cores-57 pcs)  
**007936210050**



Valve with green o-ring 3pcs;  
Renault service valve 5pcs;  
KIA Service Valve / Hyundai 5pcs;  
Valve with oval o-ring VW MW  
3 pieces; Service Valve GM 10 mm 3pcs;  
Service Valve GM 8mm 3pcs;  
Service Valve Volvo Peugeot 5 pcs;  
Service Valve JRA 5pcs;  
Service Valve GM 5pcs;  
Standard Service Valve 20pcs;  
Wrench for removing the valves)

BLUE ORIFICE TUBE (Ford)  
**007950026185**  
GREY ORIFICE TUBE( (Audi)  
**007950026190**  
YELLOW ORIFICE TUBE (Volvo)  
**007950026195**  
WHITE ORIFICE TUBE (Fiat)  
**007950026200**  
BROWN ORIFICE TUBE (Ford)  
**007950026205**  
BLACK ORIFICE TUBE (Opel)  
**007950026210**  
PURPLE ORIFICE TUBE (Chrysler)  
**007950026215**  
ORANGE ORIFICE TUBE (Ford)  
**007950026220**  
RED ORIFICE TUBE (Ford)  
**007950026225**  
GREEN ORIFICE TUBE (Ford)  
**007950026230**



Valve core High Flow  
20 x 7 mm (5Pcs)  
**007950024440**



Valve core Vw Gm  
18,7 x 6 mm(5Pcs)  
**007950024460**



Valve core Standard  
21,8 x 8 mm (5Pcs)  
**007950024470**



Valve core Standard  
22,1 x 9,8 mm(5Pcs)  
**007950024480**



Valve core Duzy(Fioletowy)  
27,155 x 7,8 mm 1Pc  
**007950024830**



Service valve 21,8 MM X  
8MM - HFO 1234YF  
**007950026690**  
Service valve 22,1 MM X 9.8MM -  
HFO 1234YF  
**007950026700**



Valve core Renault  
18,35 x 5,1 mm 1Pc  
**007950025400**



Valve core Do Kia Hyundai  
18,5 x 6,5 mm 1Pc  
**007950025410**



Hydraulic Press For Crimping  
**007950016040**



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 For Crimping  
**007950013860**



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

Hydraulic expander  
for the pipes  
**007936210710**



Set of dies for Crimper -  
6 (1/2 reduced barrier)  
**430104017513**



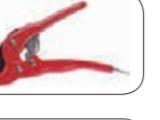
Set of dies for Crimper -  
10 (1/2 reduced barrier)  
**430104017608**



Set of dies for Crimper -  
12 (1/2 reduced barrier)  
**430104017095**



Big Ratio Hose Shears  
**007950013870**



Hose cutters  
**007950025210**



Burgclip/Smart splice  
**007935021050**



AC hose #06 5/16"  
**007935020960**

AC hose #08 13/32"  
**007935020970**

AC hose #10 1/2"  
**007935020980**

WHITE ORIFICE TUBE (Fiat)  
**007950026200**

AC hose #12 5/8"  
**007935020990**

AC hose reduced barrier #06 5/16"  
**007935021000**

AC hose reduced barrier #08 13/32"  
**007935021010**

AC hose reduced barrier #10 1/2"  
**007935021020**

AC hose reduced barrier #12 5/8"  
**007935021030**

AC hose reduced barrier #14 3/4"  
**007935021040**

Quick repair systems SMART • Spring Lock Connectors



Self-regulating anti-vibration ring



Extended sleeve sealing

Slot handle against leakage

Eight times bigger sealing area

Quick repair systems for damaged car wiring in air conditioning systems. Approved by OE manufacturers.

The **SMART System** solves both time and attendant problems as well as the reliability of traditional cable repair methods:

Remove the damaged part and reconnect the ends of the wires

- No need to remove the cable
- No welding
- No chemical binders
- No specialized tools

**Innovative Seal Design:**

- Special material HNBR (Acrylonitrile Rubber) of which the seal was made
- Patented anti-vibration ring
- Unique sealing ring and anti-vibration ring
- Seal area 8 times larger than O-Ring



For more info, visit on-line page:



AVAILABLE TYPES OF REPAIR ELEMENTS

Line A/C High Side "T" for 10mm OD  
**007935020390**



Terminat Rear A/C Blockoff Kit 5/16" OD  
**007935020430**



Connector Spring Lock female 90 degree nr 6 aluminium with beadlock  
**007936210290**



Line 90 Degr Rep Kit for 3/4" OD  
**007935020590**



Line Terminator SAE / Metric Ten Pack (5/16", 3/8", 1/2", 5/8", 3/4", 8 mm, 10 mm, 12 mm, 15 mm, 16 mm)  
**007935020740**



Connector Spring Lock male 90 degree nr 6 aluminium  
**007936210480**



Line Splice 90 Degree SAE Four Pack (5/16", 3/8", 1/2", 5/8")  
**007935020650**



Bush size G6 steel normal barieer hose fi 19.5 X 9.6  
**007936210030**

Bush size G8 steel normal barieer hose fi 23.5 X 12.3  
**007936210040**

Bush size G10 steel normal barieer hose fi 26 X 14.3  
**007936210110**

Bush size G12 steel normal barieer hose fi 29 X 18  
**007936210100**

Bush size G6 steel reduced barieer hose fi 15.5x9.6  
**007936210060**

Bush size G8 steel reduced barieer hose fi 18x 12.3  
**007936210070**

Bush size G10 steel reduced barieer hose fi 20x15.6  
**007936210080**

Bush size G12 steel reduced barieer hose 24.3x19.2  
**007936210090**



Valve core Vw GM 18,7 x 6 mm (5Pcs)  
**007950024460**



Valve core Standard 21,8 x 8 mm (5Pcs)  
**007950024470**



Valve core Standard 22,1 x 9,8 mm (5Pcs)  
**007950024480**



Valve core big (Violet) 27,155 x 7,8 mm 1Pc  
**007950024830**



Service valve 21,8 MM X 8MM - HFO 1234YF  
**007950026690**



Service valve 22,1 MM X 9.8MM - HFO 1234YF  
**007950026700**



Valve core Renault 18,35 x 5,1 mm 1Pc  
**007950025400**



Valve core Do Kia Hyundai 18,5 x 6,5 mm 1Pc  
**007950025410**



R134A container 12 kg  
**007950014290**  
Refrigerant R134a only gas  
**007950014280**



Refrigerant R1234Yf (007950014325)  
**007950014325**  
Container for 1234yf, 5Kg  
**007950014561**



Vacuum Pump Oil 0,5l For Diffrent Air Conditioning Stations  
**007935090600**  
Vacuum Pump Oil 1,0l For Diffrent Air Conditioning Stations  
**007950024880**



Oil For Hybrid Cars for R134a equal to ND 11 250 MI  
**007950024680**



Polyester Oil (Poe) Iso 100 1Lt+ Contrast Uv  
**007935090650**  
Polyester Oil (Poe) Iso 100 1Lt  
**007935090740**



Pao 68 Oil 0,5 L With UV  
**007950024860**  
Pao 68 Oil 1 L With UV  
**007950024850**



Pao Oil 68 250 MI  
**007950024630**  
Pao Oil 68 1 L  
**007950024640**  
Pao Oil 68 5 L  
**007950024650**



Pag Oil Iso46 1Lt  
**007935090660**  
Pag Oil Iso100 1Lt  
**007935090670**  
Pag Oil Iso150 Lt  
**007935090680**



Pag Oil Iso46 250 MI  
**007935090710**  
Pag Oil Iso100 250 MI  
**007935090720**  
Pag Oil Iso150 250 MI  
**007935090730**



Oil Pag 46 With Uv 250 MI  
**007950025570**  
Oil Pag 46 With Uv 1000 MI  
**007950025580**  
Oil Pag 100 With Uv 250 MI  
**007950025590**



Oil Pag 100 With Uv 1000 MI  
**007950025600**



Oil Pag 150 With Uv 250 MI  
**007950025610**



Oil Pag 150 With Uv 1000 MI  
**007950025620**



Oil PAG 68 250 ml  
**007950026370**

Oil PAG 68 1l  
**007950026380**

Oil PAG 69 5l  
**007950026390**

Oil PAG 68 UV 250 ml  
**007950026400**

Oil PAG 68 UV 1l  
**007950026410**

Oil PAG 68 UV 5l  
**007950026420**



UV Dye 250 ml  
**007935090640**

Contrast UV 1l  
**007950025320**

Contrast UV 5l  
**007950024610**

Contrast 1234yf, 350 ml  
**007950024920**

Contrast 1234yf, 250 ml  
**007950024915**



Blister Of Syringes  
With UV Dye  
(12X7,5ML)  
**007950025910**



Oil POE 170 250 ml  
**007950026540**

Oil POE 170 UV 250 ml  
**007950026550**

Oil POE 220 250 ml  
**007950026560**

Oil POE 220 UV 250 ml  
**007950026570**



Poe Oil 5 l  
**007950024490**

Pag Oil 46 - 5 l  
**007950024500**

Pag Oil 100 - 5 l  
**007950024510**

Pag Oil 150 - 5 l  
**007950024520**



UV Dye  
R1234yf, 250 ml  
**007950024910**



UV dye UV in synergie+adapter  
hose 12 pcs  
**007950026340**

UV dye UV in synergie to  
hybrid+adapter hose 12 pcs  
**007950026350**



UV Dye Remover 400 ML  
**007950025270**



Leak Finder 400 ML  
**007950024690**



Mineral oils neutralizer  
150ml  
**007950026590**

Ester oils neutralizer  
150ml  
**007950026600**



Leak Stop For A/C  
Systems 300 ML with UV  
**007950025140**

Leak Stop For A/C  
Systems 30 ML  
**007950025330**



Acidity neutralizer in  
synergie 50 ml  
**007950026490**



Stimulation and efficiency  
fluid 30 ml  
**007950026500**



Oil Pag 100 1234yf, 250 ml  
**007950024925**

Oil for hybrid cars for 1234YF  
**007950024685**



Solvent Cleaner For Air  
Conditioning Systems 1000 ML  
**007950025770**



Acidity oil test  
**007950026480**



Clima Box Presenter  
with ac consumables  
**007950026090**



**Presenter contains  
several air conditioning products.  
Perfect presentation products.**

- 2 PAG OIL 46 x 250 ml
- 2 x 100 PAG OIL 250 ml
- 1 x OIL PAG 150 250 ml
- 1 x SINGLE decontamination SPRAY 200 ml Lavender
- 1 x SINGLE de SPRAY 200 ml Pine
- 1 x SINGLE dekontamination SPRAY 200 ml
- 1 x UV CONTRAST (250ml)
- 1 x FOAM TO SEARCH leaks 400ml
- 1 x SEALING THE AIR CONDITIONING
- 1 x SET TWO decontamination sprays
- 1 x FOAM decontamination 400 ml

MAGNETI MARELLI

DIESEL

## Common Rail injectors test bench Magneti Marelli DS1R

007935101450  
007935101440  
007935101430  
007935101420



**Small but professional**

### Piezo stack regeneration

Newest Common Rail injectors testing device on the market. It is characterized by a very compact design, what will be appreciated in the workshop with a limited space. Thanks to the latest technology allows to quickly and accurately check the technical condition of the injector. The basic version: DS1R-S/10 and DS1R-E/10, basing on electrical test, and leak test of the injector, generate a result in the form of PASS / FAIL report. DS1R-E/20 and DS1R-D/20 version, measures with high accuracy all parameters and on this basis create detailed report, with the reference to the embedded database.

An extensive database for all types of electromagnetic and piezo injectors Bosch, Delphi, Denso, Siemens / VDO / Continental. Free, automatic software updates. The ideal device for those who value ease of use and fast return on investment. Perfect for the professional injector regeneration services, and in the ordinary auto-service, which will help in the rapid assessment of the correctness of operation of the injector and its suitability for further use.

**DS1R-S/10**  
(MM: 007935101420)  
**DS1R-E/10**  
(MM: 007935101430)

- ▶ Common Rail revolutionary testing solution for BOSCH, DELPHI, DENSO and CONTI/VDO injectors. Heavy Duty and Light Duty applications for all types of Piezo, Solenoid & Dual-Solenoid actuators.
- ▶ Max operating pressure 1000 bar
- ▶ R2LC test - electrical test,
- ▶ Injector Volume measuring test - iVM (without maximum load) - only in DS1R-E/10
- ▶ Optional RSP test (response time test) and aNOP (nozzle opening pressure) - additional RSP sensor
- ▶ Operation 1 injector
- ▶ Semi-automatic operation (manual pressure regulator)
- ▶ Static Electronic Mass Measurement
- ▶ Testing time ~ 5-10 minutes
- ▶ 8" touchscreen, Android operation system



**DS1R-E/20**  
(MM: 007935101440)  
**DS1R-D/20**  
(MM: 007935101450)

- ▶ Common Rail revolutionary testing solution for BOSCH, DELPHI, DENSO and CONTI/VDO injectors. Heavy Duty and Light Duty applications for all types of Piezo, Solenoid & Dual-Solenoid actuators.
- ▶ Max operating pressure 2000 bar
- ▶ Exact diagnosis on PASS/FAIL at CFL test with an immediate
- ▶ Injector Volume measuring test - iVM full-load, part-load, emissions, low-load, pre/post-injection tests)
- ▶ LKT - Static Back Leak Test NLT - Nozzle Leakage Test
- ▶ Optional RSP test (response time test) and aNOP (nozzle opening pressure) - additional RSP sensor
- ▶ Operation 1 injector
- ▶ Semi-automatic operation (manual pressure regulator) - DS1R-E/20
- ▶ Full automatic operation (electronic pressure regulator) - DS1R-D/20
- ▶ Static Electronic Mass Measurement
- ▶ Testing time ~ 10-12 minutes
- ▶ 8" touchscreen, Android operation system

MM CODE	MODEL	DESCRIPTION
007935101420	DS1R-S/10	DS1R-S/10 - 1000Bar Testing 1 CRDi's /Electronic Static Mass Metering / Semi-Automatic /Manual Pressure Control/ QUICK PASS-FAIL Test by CFL, R2LC TEST, Enabled RSP and aNOP Test / Includes: 1xPSC.79 Optionals: RSP.10, CRIN adapters PS1, UB.XX, Oils, E
007935101430	DS1R-E/10	DS1R-E/10 - 1000Bar Testing 1 CRDi's /Electronic Static Mass Metering / Semi-Automatic /Manual Pressure Control/QUICK PASS-FAIL Test by CFL, R2LC TEST, Enabled RSP and aNOP Test/ iVM Tests(PM, EM, LL, PI, VE) Includes: 1xPSC.79 / Optionals: RSP.10, CR
007935101440	DS1R-E/20	DS1R-E/20 - 2000Bar Testing 1 CRDi's /Electronic Static Mass Metering / Semi-Automatic /Manual Pressure Control/QUICK PASS-FAIL Test by CFL, R2LC TEST, RSP and aNOP Test/ iVM Tests(VL, FL, PM, EM, LL, PI, VE) LKT test/ NLT test / Exclusive Accessories
007935101450	DS1R-D/20	DS1R-D/20 - 2000Bar Testing 1 CRDi's /Electronic Static Mass Metering / Full-Automatic / Electronic Pressure Control / QUICK PASS-FAIL Test by CFL, R2LC TEST, RSP and aNOP Test / iVM Tests(VL, FL, PM, EM, LL, PI, VE) LKT test/ NLT test / Exclusive Access

## Common Rail injectors test bench Magneti Marelli DS2R

007935100830  
007935100840  
007935100850  
007935100860



### High potential - small cost. Biggest database.

The best device for testing Common Rail injectors on the market, considering the relation of possibilities to the price. Proven, intuitive, friendly in use construction, thanks to the use of the most modern technology allows for quick and precise checking the technical condition of the injector.

An extensive database for all types of electromagnetic and piezoelectric injectors: Bosch, Delphi, Denso, Siemens / VDO / Continental. Free, automatic updates of the software. Perfect device for the ones appreciating convenience and quick return on investment.

Perfect for a professional injector regeneration workshop, and for the ordinary car service, where it will help in quick assessment of the correctness of the injector operation.

MM CODE	MODEL	DESCRIPTION
007935100830	DS2R-A/10	DS2R diesel injector tester with a 1000 bar pump - manual pressure regulator, measuring with volumetric tubes
007935100840	DS2R-A/10/F	DS2R diesel injector tester with a 1000 bar pump - manual pressure regulator, measuring with volumetric tubes (MACC washing function, ultrasound washer, Android system, washer fluid, cleaning liquid)
007935100850	DS2R-A/20	DS2R diesel injector tester with a 2000 bar pump - manual pressure regulator, measuring with volumetric tubes (cover, Android system)
007935100860	DS2R-A/20/F	DS2R diesel injector tester with a 2000 bar pump - manual pressure regulator, measuring with volumetric tubes (MACC washing function, cover, ultrasonic cleaner, Android system, washer fluid, cleaning liquid)



- ▶ Test all types of electromagnetic and piezo injectors: Bosch, Delphi, Denso, Siemens / VDO / Continental with reference obtained results to the built-in database
- ▶ Over 2000 references of injectors

- ▶ Operation 1 injector
- ▶ Internal cleaning of injectors (function "MACC" in the "F"- version of the bench)
- ▶ Piezo stack regeneration function in Siemens / VDO, Denso and Bosch injectors
- ▶ iRVL - ball valve stroke generator
- ▶ Manual operation (manual control pressure)
- ▶ Measurement with volumetric tubes
- ▶ Test time of 12-19 minutes
- ▶ Tablet 8 "with Android
- ▶ Automatic, free, updates of the software
- ▶ Possibility of connecting the unit injectors testing device - UIPR attachment

# Common Rail injectors test bench Magnet Marelli CRU\*R

007935100770  
007935100780  
007935100790  
007935100800  
007935100810  
007935100820

Created by  
professionals –  
for professionals



Coding Bosch,  
Delphi, Siemens/VDO  
and Denso Injectors

Maximum work  
pressure up to  
2500 bar



The most advanced device on the market for testing Common Rail injectors. Proven, intuitive, user-friendly design, thanks to the use of the most modern technology, allows you to check technical condition of the tested injector quickly and accurately. The capabilities of the device will be appreciated especially by professionals, looking for advanced technology, and wide application possibilities. With CRU2R / CRU4R devices, it is possible to generate

new codes for Bosch injectors (IMA, ISA), Delphi (C2i, C3i), and Denso (QR Code), and perform the piezo element regeneration procedure for Bosch, Denso, and Siemens/VDO piezoelectric injectors. For Bosch coil injectors, a ball valve stroke generator is built in. An extensive database for all types of electromagnetic and piezoelectric injectors: Bosch, Delphi, Denso, Siemens / VDO / Continental. Free, automatic updates of software.

### Characteristics of devices

- ▶ Test of all types of electromagnetic and piezo injectors: Bosch, Delphi, Denso, Siemens / VDO / Continental and Two-tiered with reference to the database
- ▶ Over 2000 references of injectors
- ▶ Operation 1 (CRU2R) or 4 injectors (CRU4R)
- ▶ Working pressure: 2000 bar or 2500 bar
- ▶ Detecting the injector short to ground or between pins and protection of the main board against damage
- ▶ Designation of C2i and C3i codes for Delphi injectors, and IMA, ISA codes for Bosch injectors. (only RSP sensor required)
- ▶ Generating codes for Denso injectors Piezo and coil - optional
- ▶ Ball valve stroke generator (Bosch)
- ▶ Unique PIEZO stack regeneration function
- ▶ Internal cleaning of injectors (CRU2R only)
- ▶ Possibility of connecting an attachment for testing unit injectors (option - CRU2R only)
- ▶ Possibility of editing test plans
- ▶ Free database update
- ▶ Operation in automatic mode
- ▶ Built-in 12" Android tablet
- ▶ Clearly presented test results with a possibility of printing

MM CODE	MODEL	DESCRIPTION
007935100770	CRU.4R/20	TEST BENCH FOR 4 CRDi's FULL- AUTOMATIC OPERATION CODING FUCTION STD:2000BAR, PRCO, 1xPSC.79
007935100780	CRU.4R/30	TEST BENCH FOR 4 CRDi's FULL- AUTOMATIC OPERATION CODING FUCTION STD: 2500BAR, PRCO, 1xPSC.79
007935100790	CRU.2R/20	TEST & SERVICE BENCH FOR 1 CRDi FULL- AUTOMATIC OPERATION CODING FUCTION
007935100800	CRU.2R/20/F	TESTING & FLUSHING BENCH 1 CRDi FULL - AUTOMATIC OPERATION CODING FUCTION STD: 2000BAR,UB-15s, PRCO
007935100810	CRU.2R/30	TEST & SERVICE BENCH FOR 1 CRDi / FULL - AUTOMATIC OPERATION CODING FUCTION
007935100820	CRU.2R/30/F	TESTING & FLUSHING BENCH1 CRDi FULL - AUTOMATIC OPERATION CODING FUCTION
007935102320	CRU.2R/30/CD	2500Bar Testing 1 CRDi's / Full Automatic / Electronic Dynamic Mass Metering /Coding function for all injectors included / Includes: 1xPSC.79, UB-15s, RSP sensor

### Performed tests:

- RLC**  
Electrical test of the injector  
- piezo:  $\mu F$   
- coil:  $\Omega/mH$
- CFL**  
Check for leaks test (injector internal or external)
- LKT**  
Static back leak test
- aNOP**  
Automatic nozzle opening pressure test
- iVM**  
Injector volume measuring test (full-load, part-load, emissions, low-load, pre/post-injection tests and more)
- DFi**  
Testing the characteristics of the dose increment
- RSP**  
Injector Reaction Time Test (Optional)

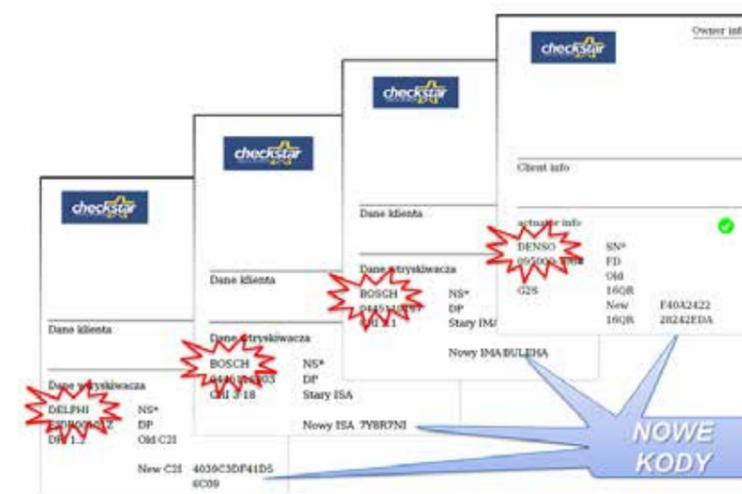
**RSP - Injector reaction test**  
The RSP sensor is connected to each end of the injector for accurate measurement of the mechanical injector response to electric control.  
Diagnosis: Clipping injector, delayed fuel injection, low engine power, High toxicity of exhaust components.

**AZO software**  
Revolutionary software enabling use of the latest IT such as printing, or sending protocols over the network via WiFi, synchronization with the server, automatic update of the software and databases, remote access to the device, on-line technical support and more.

**BK-iVM - dynamic weight measurement injector output**  
Accurate, repeatable and fast electronic measurement of injection doses and overflows. Only world-wide measuring system, which does not contain movable parts filtration or temperature calibration. It supports measurement of partial doses injected one after another as it takes place in the engine. Repeatability: 0,05%, accuracy: 0,2%.

**IPSC - spray chamber**  
Illuminated spray test chamber under hypertension conditions. Allows you to observe injection pressure up to 2500 bar. Chamber enables visual distinguishing partial doses as it takes place in the cylinder.

**Diagnosis:** injection pressure of opening the injector, irregular spraying, leaking or overheated and failed injectors.



# Common Rail injectors and/or CRp pumps test bench Magneti Marelli MTBR

007935101480  
007935101680  
007935101490

Very compact construction and modern design. Easy and convenient assembly and access to the tested components and intuitive software, allowing fast, efficient and most importantly safe work.

## The most modern solution on the market

### Testing CRDi, CRp, EUI/EUP

### Coding for Bosch, Delphi Siemens/VDO and Denso injectors



- ▶ Maximum pressure up to 2500 bar
- ▶ Electronic and safe Protective Hood Opening (MTBR-E)
- ▶ Injector Coding: Delphi (C2i/C3i), Bosch (IMA/ISA), Denso (QR code - option), and others\*
- ▶ Dynamic Electronic Mass (BK) Measurement (CRDi, HEUI, EUI/E)
- ▶ Accuracy: 0.2% FS, repeatability: 0.05%
- ▶ Static Electronic Mass (DFAP) Measurement (CRp)
- ▶ Resolution: 1mm<sup>3</sup>, accuracy: 0.6%FS
- ▶ Fully Automatic and fast testing phase
- ▶ Diesel Specialist level of Diagnosis

- ▶ Internal cooling system (No water connection needed)
- ▶ Instantaneous Emergency Stop function
- ▶ 15" Touchscreen HMI

\* future updates



MM CODE	MODEL	DESCRIPTION
007935101480	MTBR/P	MTBR/P - Compact Standalone Diesel Test Bench / For All Types & Makes of CR-Pump Systems / 2000Bar Capable / Smaller Flywheel (Cambox operation limited*) / Single Measuring Sensor / Electronic Static Mass Metering / Bosch CP1 / CP3 adaptability CRp includ
007935101680	MTBR/I	MTBR/I - Compact Standalone Diesel Test Bench / For All Types & Makes of 4 CRDi SYSTEMS (Cri, CRIN) / 2000Bar Capable / Single Measuring Sensor Electronic Electronic Dynamic Mass Metering / Injector Coding (Requires 4xRSP.04) / Bosch Coding IMA/ISA, Delphi Coding C2i/C3i Included (RSP.04 Required) / Four [4] Slot System/ Manually Operated Protective hood / CRPump included
007935101490	MTBR/E	MTBR/E - Compact Standalone Diesel Test Bench / For All Types & Makes of CRDi, CR-Pump, EUI/EUP, HEUI Systems / 2800Bar Capable / Cambox Operation / Dual Measuring Sensor /Electronic Electronic Dynamic Mass Metering & Static Mass Metering / Injector Codi

## Specifications:

- ▶ All Makes OE, CZ & User Database - developer and OE customizing
- ▶ Piezo & Solenoid programmable actuation profiles (HV: 0-300 Volts / 0-35A)
- ▶ Injector & PCB protection circuit (StG, StB, SC, OC, IC) - multiple Injections capability
- ▶ Fast mounting and dismounting of injectors and pumps
- ▶ Signaling and control hydraulic system (30-300bar)
- ▶ Hydraulic system control & indication (30-300 bar)
- ▶ User friendly, ergonomic, dynamic & robust design
- ▶ Perfect access to tested components - 270 degrees
- ▶ Spill-free hose quick connectors
- ▶ Complimentary startup kit of CRp / CRi adapters, fittings and connectors for all makes & types

Technical data	
Input	3 phase 380 V
Frequency	50/60 Hz
Speed range	0 - 4000 obr/min
Powerful Motor	15HP
Maximum operating ambient temperature	50 °C
High Pressure system Max Pressure	2500 bar
Test oil tank	35 l
Waste Oil tank	10 l
Dimensions	750 x 700 x 1610 mm
Weight	300 kg

## Tests performed:

- R2LC** – Electrical actuator test for - piezo: µF - cewkowe: Ω/µH
- CFL** – Check For Leaks test
- LKT** – Static Back Leak Test
- NLT** – Nozzle Leakage Test
- aNOP** – Automatic Nozzle Opening Pressure test
- IVM** – Injector Volume Measuring test (full-load, part-load,emissions, low-load, pre/post-injection tests and more)
- IVM-DFI** – Injector Volume Measuring test (multiple test-points slope, per pressure)
- RSP** – Injector nozzle Response-time test
- BIP [for UIS systems]** – Injector Control Valve Responsetime test
- SPR** – Dynamic Spray Test performed in all testing conditions

**Additionally:**  
High pressure Control Valve operation (DRV, IMV, PCV, etc...)  
High Pressure Sensor reaction  
High Pressure relief safety valve operation  
CR Pump flow limiter valve operation (ZME, IMV, SCV, VCV, etc...)



## Test bench electronic control & measurement unit - TBC-R

007935101690  
007935101700  
007935101710



**100% POSSIBILITY  
– 50% PRICE**  
**CRDi, CRp, EUI / EUP  
TESTING**

A state-of-the-art electronic control and measurement module that allows you to control and accurately measure all injection systems used in today's diesel engines. Testing CRDi injectors, CRp pumps, and EUI / EUP and HEUI injectors, all types and all manufacturers. Can be mounted on any conventional test bench available on the market Modern compact design. Clear operating interface (10 inch touch screen), fast and convenient installation. Functions and capabilities of the device, identical with those available in the corresponding MTBR version.

- ▶ Dynamic Electronic Mass Measurement (BK) for CRDi, HEUI, EUI / EUP
- ▶ Accuracy: 0.2% FS, repeatability: 0.05%
- ▶ Static Electronic Mass Measurement (DFAP) for CRp pumps
- ▶ Resolution: 1mm<sup>3</sup>, Accuracy: 0.6%FS
- ▶ Fully automatic and fast test cycle
- ▶ Advanced level of diagnostics of Diesel injection systems
- ▶ Immediate emergency stop function
- ▶ 10 "HMI touch screen
- \* future updates

### Performed tests:

- R2LC** – Electric injector test
  - piezo:  $\mu\text{F}$
  - coil:  $\Omega/\mu\text{H}$
- CFL** – Injector leak test
- LKT** – Static return leakage test In the return of the injector
- NLT** – Injector tip integrity test
- aNOP** - Automatic opening pressure test of the injector tips
- iVM** – Injector Expansion Test (FL), Partial Load (EN), Emission Rate (EM), Slow Cycle (LL), Pre-Injection / PI (PI)
- iVM-DFi** – injector output test (variable dosage range for each test) Study of dose increment characterization
- RSP** – Injector reaction time test (optional)
- BIP [for UIS systems]** – reaction time of injector control valve
- SPR** – Dynamic spray test

### Additional tests for CRp pumps:

- Operation of the high-pressure control valve (DRV, IMV, PCV, etc.)
- Response of the high pressure sensor
- Operation of the drop safety valve high pressure.

### Specification:

- ▶ Database for all OE manufacturers, CZ, and the user database,
- ▶ Programmable activation profiles for piezoelectric and coil injectors (HV: 0-300 Volt / 0-35A),
- ▶ Advanced safety circuits for: Injector and PCB plate (StG, StB, SC, OC, IC),
- ▶ Ergonomic and robust design, user friendly.

### Device properties:

- ▶ Maximum operating pressure for injectors CRDi up to 2500 bar
- ▶ Compatible with each conventional test bench available on the market
- ▶ Compact, light and portable construction
- ▶ Encoding of Delphi injectors (C2i / C3i) Bosch (IMA / ISA), Denso (QR code - optional) and other\*

MM CODE	MODEL	DESCRIPTION
007935101690	TBCR/P	TBC-R/p - Test Bench Electronic Control & Measurement Unit for 1 CR Pump (All Types & Makes). Actuation Profiles-Data-Measurement / TestBench Simulator / DFAP Static Electronic Mass Metering / Standard Cables and Hoses are included.
007935101700	TBCR/I	TBC-R/i - Test Bench Electronic Control & Measurement Unit for 4 CRDi injectors, 4 HEUI, 1 EUI/EUP (All Types & Makes). Actuation Profiles-Data-Measurement-Coding Capability / TestBench Simulator / BK Dynamic Electronic Mass Metering (For Coding Function)
007935101710	TBCR/E	TBC-R/e - Test Bench Electronic Control & Measurement Unit for 4 CRDi injectors, 1 CR Pump, 4 HEUI, 1 EUI/EUP (All Types & Makes). Actuation Profiles-Data-Measurement-Coding Capability/ TestBench Simulator / BK Dynamic Electronic Mass Metering (For Coding)

## Test & service bench for unit injectors Magneti Marelli UIPR

007935100940  
007935100950  
007935100960  
007935100970



### Characteristics of devices:

- ▶ UIPR-S standalone unit (with TCCMR controller) for testing and cleaning (UIPR-S / F) of EUI / EUP pump injectors
- ▶ UIPR-A - an attachment for testing and cleaning (UIPR-A / F) pump injectors EUI / EUP, control and measurement with Series DS2R, CRU2 (4) R
- ▶ Semi-automatic operating mode
- ▶ Static Electronic Weighing (DFAP)
- ▶ Electronic test report printable
- ▶ 8 "touch screen tablet Android

### Key features:

- ▶ Extensive test database for coil and piezoelectric pump injectors
- ▶ Possibility of creating your own test plans
- ▶ Pneumatic UIPR control without using a testing table
- ▶ Quick installation and disassembly of injector pumps
- ▶ Controlling piezo and coil injectors (HV: 0-250V / 0-35A)
- ▶ Possibility of simulating up to 1200 Rpm (600 cycles / min)



### Cambox

Cambox device can be easily and quickly added to any kind of testing benches used for testing of all types of injectors (EUI) and pumping units (EUP).

Our device is universal, what means it can be mounted on any type of testing bench (Bosch, Hartridge, Rabotti, Magas, products made of China and others). Height of Cambox from its bottom to the transmission shaft axis is the same as the BOSCH device - 125 mm.

Cambox tester simulates working conditions like in the engine. The coupler connecting the tester motor allows you to place each EUI / EUP to work, and adding a simulator (DGIC-1 / CB, or TCCMR / CB) allows stimulation of the coil operation as it happens in the engine. In standard configuration (factory pickup) the device allows you to carry out Volvo mechanical tests and one version of Iveco. For other EUI / EUP types there are available specially dedicated adapters, handles and shafts.

MM CODE	MODEL	DESCRIPTION
007935100940	UIPR-S	TEST & SERVICE STANDALONE BENCH FOR 1 EUI/ EUP DIESEL INJECTOR
007935100950	UIPR-S/F	TESTING & FLUSHING STANDALONE BENCH FOR 1 EUI/ EUP DIESEL INJECTOR
007935100960	UIPR-A	TEST & SERVICE ATTACHMENT BENCH FOR 1 EUI/ EUP DIESEL INJECTOR
007935100970	UIPR-A/F	TESTING & FLUSHING ATTACHMENT BENCH FOR 1 EUI/ EUP DIESEL INJECTOR

## Injector repair system - "third phase"

Magneti Marelli has developed a repair technology of Bosch injectors, so called „Third phase“ (MM 007950011600). It is an essential element of injector regeneration workshop equipment. Thanks to that it is possible to select all adjustable dimensions such as:

- ▶ ball jump
- ▶ air gap
- ▶ volume of the control chamber
- ▶ spring tension

Our equipment is based on a touch screen computer and allows micrometer control Calibrated to 0.001 mm. All measurements made using sensors During the repair procedure, they are automatically transferred to the computer, which by analyzing made measurements, corrects the thickness of adjusters (washers). Such a procedure guarantees that the injector will work properly. The System has a measurement database for Bosch electromagnetic injectors, both for passenger vehicles (so-called „110“) and trucks (so-called „120“). At present we also offer a measurement and regulation system for Siemens / VDO injectors. In case of Siemens / VDO injectors (piezoelectric), it is possible to measure all control elements, which affect the operation of the injector, both in its upper and lower parts. There are also control sets and complete endings of injectors available.



MM CODE	DESCRIPTION
007950011600	3 stage repair set for Bosch
007941000204	3 stage repair set for Denso
007941000205	3 stage repair set for VDO
007941000206	3 stage repair set for - extension to Denso
007941000207	3 stage repair set for - extension to VDO



## Accessories for injector testers

RSP SENSOR - NOZZLE RESPONSE SENSOR (7-9mm) - for coding function

The RSP sensor allows for precise measurement of the response time (delay) of the injector needle from the moment of supplying the electrical signal to the injector coil. Thanks to the adapter it is possible to detect the slow operation of the injector, the delay of the actual injection, the poor performance. Necessary for generating new injector codes.



**007935100670**

Injector coding function DENSO (Software)

Activation of new QR codes coll for Denso injectors (piezo and tubular). For testers of CRU \* R, TBCR and MTBR series injectors



**007935101660**

Backleak Regulator For Conti / Vdo Piezo

Pressure regulator for overflow fuel, for use in testing Conti / VDO piezoelectric injectors



**007935095460**

Backleak Regulator For Bosch Piezo

Pressure regulator for overflow fuel, for use in testing Bosch piezoelectric injector



**007935095470**

Nozzle Response Sensor-Bip For Pumpinjectors

Sensor with three mounting adapters for BIP measurement in pump injectors



**007935100410**

Pressurized illuminated spray tube, rozmiar 7-9 MM

Illuminated pressure chamber, used to observe the quality of the injector - iPSC.79D. Maximum working pressure 2500 Bar. Thanks to it, it is possible to diagnose NOP, improper spraying, leaks or brushing the injector needle. The chamber has an easy and fast assembly system for injectors with a nozzle diameter of 7-9 mm.



**007935100650**

VDO injector coding function (Software)

Activation of the possibility of generating new codes for Siemens / VDO injectors. For CRU2R, TBCR and MTBR series



**007935101740**

Test-Fluid Diesel 4L

**007935095110**



Fluid For Ultrasonic Cleaner 4L

**007935095120**



Fluid For Internal CleaningMacc Diesel 2L

**007935095100**



Fluid For Internal Cleaning Macc Diesel 25L (Dia Ds/Es/Gd Series)

**007935100270**



Bench Stand Support

**007935095390**



## Adapters for CRIN injectors



KOD MM	SPECIFICATION
007935095020	Adapter For Injectors Crin - Iveco/Cummins 1 /Dodge/Duramax (Bosch 120 - 184/ 018/ 114/ 032/)
007935095030	Adapter For Injectors Crin - Iveco/Cummins 2 (Bosch 120 - 125/070)
007935095980	Adapter For Injectors Khd/Deutz (Bosch)(Bosch 120 - 067)
007935095050	Adapter For Injectors Crin Renault (Bosch 120 - 003)
007935095400	Adapter For Injectors Crin - Cummins (Bosch 120 - 003)
007935095410	Adapter For Injectors Crin - Duramax (Denso 5730)
007935095420	Adapter For Injectors Crin - John Deere (Denso 0540)
007935095520	Adapter For Injectors Crin Ford 6.4 Powerstroke (Siemens 8C3Z - 9E527 - A)
007935095045	Adapter For Injectors CRIN - MAN 2 MAN; IH (INTERNATIONAL HARVESTER); NAV-INTL (MMM) Injectors number: 0445120030, 0445120218, 0445120100
007935095035	Adapter For Injectors CRIN MAN (YAMZ);KHD/RENAULT DEUTZ(BOSCH);RENAULT/FENDT DEUTZ(Bosch 120 - 065)
007935095430	Adapter For Injectors Crin - Bosch Mtu (Bosch 920189903(3894783, Y431K05210)
007935095530	Adapter For Injectors Crin - Denso (0800 05C0064)
007935095540	Adapter For Injectors Crin - L'Orange (L'Oranz 934759 (Mog266W48B)
007935095550	Adapter For Injectors Crin Iveco (Bosch 120 - 054)
007935095040	Adapter For Injectors Crin - MAN 1 Injektor sz. (0445120044, 0445120053, 0445120045)
007935095560	Adapter For Injectors Crin - Iveco (Bosch 120 - 157)
007935100100	Adapter For Injectors Crin (set with 007935095330, 007935095340, 007935095350)

## Tools for injectors repair

Complete Tool Kit To Repair Bosch Nozzleholder CRI+CRIN  
**007950010210**



Pliers Kit Inox Anti-Magnetic  
**007950010150**



Kit Of 4 Hexagonal Wrenches For Injector Nozzels: 14/15/17/19 mm  
**007950010770**



Universal Retaining Clamp With Adjustable Diameter  
**007950010750**



Hexagonal Wrench Iveco Daily 17,5MM  
**007950010730**



Storage Box For Injectors  
**007950010240**



Tool Kit To Repair Common Rail Nozzleholders Bosch CRIN  
**007950010220**



Tool Kit To Repair Common Rail Nozzleholders Bosch CRI  
**007950010230**



Comparator Bearing With 2 Fixing Part For Common Rail Nozzleholders (17 And 19Mm) With Digital Millesimal Comparator  
**007950010310**



Injector Coil Wrench Diameter 30 Mm  
**007950010720**



Special vice for dismounting the common rail injectorsuniversal COMMON RAIL

Special vice for dismounting as recommended by injector, nuts, spray manufacturers. Complete set of angle discs and bushings needed at mounting an injector and electronic comparator used for measuring injector elements.

**007950010630**



Adapter With Guide Pin For Simens Injectors  
**007950010820**



3 Pin Adapter For Dismounting Internal Cap-Oring (Denso)  
**007950010840**



Ultrasound Cleaning Unit 42Khz/1.5 L  
**007935095210**



Pin for Denso valve group removal tool Denso 007950010840  
**007950030005**



Set of 6 hexagonal KEYS for 1/2" key: 15, 17, 19, 27, 29, 30 MM  
**007950010320**



3 Pin Adapter For Dismounting Internal Cap-Oring (Delphi)  
**007950010790**



Adapter For Dismounting Internal Cap-Oring Bosch, Hexagonal 10Mm Opening 7,5 Mm  
**007950010800**



Wrench X Internal Ring Nut Denso  
**007950030025**



Fiber Ring Positioning Tool Bosch CRI (0.986.613.640)  
**007950011450**



Testing Adapter For Ball Seat Testing  
**007950010340**



Device For Dismounting Fiber Oring Bosch CRIN (0.986.613.646)  
**007950010670**



Tool Kit For Lapping The Common Rail Injectors Spherical Seat  
**007950010100**



Positioning Kit For Fiber Sealer)  
**007950010680**



Injector Coil Wrench Diameter 29 Mm  
**007950010710**



Abrasive Paste To Polish The Holding Ball Valve  
**007950010380**



Tool To Dismount And Mount Common Rail Nozzleholders And Unit-Injectors.

**007950010250**



Power Spring X Vw Common Rail (Use With 007950010250)

**007950011595**



Force Pick Up With Digital Force Indicator

**007950010260**



Unit-Injector Plate

**007950010270**



Test Adaptors To Check The Injector Balancing Of Eui Volkswagen VW 04147203xx (1.683.355.057)

**007950011560**



Test Adaptors To Check The Inje Balancing Of Eui Volkswagen VW 04147200xx, 04147201xx, 04147202xx (1.683.355.056)

**007950011570**



Test Adaptors To Check The Injector Balancing Of Eui Audi 25x0,75 mm (1.681.398.033)

**007950011580**



Test Adaptors To Check The Injector Balancing Of Eui Audi

**007935063350**



Kit Of Tools For Denso Injector Seat Resurfacing D.17-19 Mm

**007935063360**



Working Station Manufactured For Repairing All Kind Of Nozzle Holders

**007950011550**



Set For Manual Diagnosis Of Diesel High Pressure 2500 Bar

**007935095600**



Resistance and capacity meter - LCR tester

**007950030870**



Device allows for accurate measurement of the resistance and continuity between the pins of the injector plug and its body. Thanks to it, it is possible to accurately assess the piezoelectric stack capacity in piezoelectric injectors.

High voltage insulation meter

**007950030875**



The meter allows to diagnose coil and piezoelectric injectors for short circuits It enables measurement at 250V (and higher) voltage and 1mA test current.

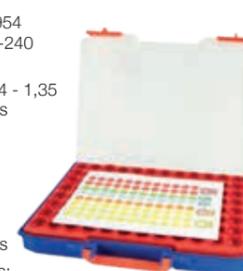
## Spare parts for injector repair

### Spare parts for Bosch injectors repair

PHASE 3 Shims kit composed by:

- A) Hex 22 - hole 18; Thickness: 0,954 - 1,046 (24 measures) Cut:0,0004 -240 pieces
- B) Hex 22 - hole 19; Thickness:1,24 - 1,35 (12 measures) Cut:0,01 -120 pieces
- C) Diam. 22,8 - hole 19,50; Thickness:1,516-1,656 (36 measures) Cut:0,0004-360 pieces
- D) Diam.7,70 - hole 4,40; Thickness: 1,005-1,115 (12measures) Cut:0,010-120 pieces
- E) Diam.4,20 - hole 2,30; Thickness: 1,04-1,26 (12measures) Cut:0,02 -120 pieces

**007950011605**



PHASE 3 Shims kit composed by: -

- A) Hex 22 - hole 18; Thickness: 0,90 - 1,13 (24 measures) Cut:0,01 -240 pieces
- B)Hex 22 - hole 19; Thickness:1,00-1,11 (12 measures) Cut:0,01 -120 pieces
- C) Diam. 22,8 - hole 19,50; Thickness:1,30-1,76 (24 measures) Cut:0,02-240 pieces
- D) Diam.7,70 - hole 4,40; Thickness:1,00-1,22 (12measures) Cut:0,02-120 pieces
- E) Diam.4,20 - hole 2,30; Thickness:1,20-1,66 (24measures) Cut:0,02 -240 pieces

**007950011610**



PHASE 3 Shims tool kit composed by: -

- A) Diam. 15,70 - hole 10,50; Thickness:1,194 - 1,286 (24measures) Cut:0,004-240 pieces
- B) Diam.5,30 - hole 3,50; Thickness:1,10-1,80 (36measures) Cut:0,02-360 pieces
- C) Diam.2,30; Thickness:1,02-1,25 (24measures) Cut:0,01 -240 pieces
- D) Thickness:8,409-8,541 (12 measures) Cut:0,012 -120 pieces

**007950011615**



PHASE 3 Shims tool kit composed by: -

- A) Diam. 15,70 - hole 10,50; Thickness:1,10 - 1,33 (24measures) Cut:0,01-240 pieces
- B) Diam.5,30 - hole 3,50; Thickness: 1,10-1,80 (36measures) Cut: 0,02-360 pieces
- C) Diam.2,30; Thickness:1,02-1,25 (24measures) Cut:0,01 -240 pieces
- D) Thickness: 8,409-8,541 (12 measures) Cut: 0,012 -120 pieces

**007950011620**



Calibration Thickness Kit: Diam.9,00 - Hole 3,50 Thickness: 0,78 - 1,25 - Cut 0,01 - 48 Measure - 480 Pieces

**007950011625**



Calibration Thickness Kit: Diam.7,70 - Hole 4,40 Thickness: 0,985 - 1,385 - Cut 0,01 - 41 Measure - 410 Pieces

**007950011630**



Calibration Thickness Kit: Diam. 6,40 - Hole 2,50 Thickness: 1,20 - 1,30 - Cut 0,01 -11 Measure - 110 Pieces

**007950011635**



Calibration Thickness Kit: Diam. 5,10 - Hole 3,00 Thickness: 1,00 - 1,70 - Cut 0,02 -36 Measure - 360 Pieces

**007950011710**



Calibration Thickness Kit: Diam. 6,40 - Hole 2,50 Thickness: 1,00 - 1,40 - Cut 0,01 -41 Measure - 410 Pieces

**007950011640**



Calibration Thickness Kit: Diam. 4,50 - Hole 2,50 Thickness: 1,20 - 1,90 - Cut 0,02 -36 Measure - 360 Pieces

**007950011715**



Calibration Thickness Kit: Diam. 6,40 - Hole 2,50 Thickness: 1,089 - 1,368 - Cut 0,009 -32 Measure - 320 Pieces

**007950011645**



Calibration Thickness Kit: Diam. 4,20 - Hole 2,30 Thickness: 1,15 - 2,30 - Cut 0,05 -24 Measure - 240 Pieces

**007950011720**



Calibration Thickness Kit: Diam. 5,30 - Hole 3,50 Thickness: 0,90 - 1,90 - Cut 0,05 -21 Measure - 210 Pieces

**007950011675**



Calibration Thickness Kit: Diam. 4,20 - Hole 2,30 Thickness: 0,80 - 1,64 - Cut 0,02 -43 Measure - 430 Pieces

**007950011725**



Calibration Thickness Kit: Diam. 5,30 - Hole 3,50 Thickness: 1,20 - 2,30 - Cut 0,10 -12 Measure - 120 Pieces

**007950011680**



Calibration Thickness Kit: Diam. 4,00 - Hole 2,30 Thickness: 1,15 - 2,30 - Cut 0,05 -24 Measure - 240 Pieces

**007950011730**



Calibration Thickness Kit: Diam. 5,30 - Hole 3,50 Thickness: 1,20 - 2,30 - Cut 0,05 -23 Measure - 230 Pieces

**007950011685**



Calibration Thickness Kit: Diam. 4,00 - Hole 2,30 Thickness: 1,20 - 1,90 - Cut 0,02 -24 Measure - 240 Pieces

**007950011735**



Calibration Thickness Kit: Diam. 5,30 - Hole 3,50 Thickness: 1,0 - 2,00 - Cut 0,02 -51 Measure - 510 Pieces

**007950011690**



Solenoid Washers Kit: Diam. 23,70 - Hole 19,00 Thickness: 0,86 - 1,24 - Cut 0,004 -96 Measure - 960 Pieces

**007950011765**



Calibration Thickness Kit: Diam. 5,10 - Hole 3,00 Thickness: 1,20 - 1,60 - Cut 0,02 -21 Measure - 210 Pieces

**007950011695**



Solenoid Washers Kit: Diam. 22,80 - Hole 19,50 Thickness: 1,30 - 1,80 - Cut 0,01 -51 Measure - 510 Pieces

**007950011770**



Calibration Thickness Kit: Diam. 5,10 - Hole 3,00 Thickness: 1,15 - 2,30 - Cut 0,05 -24 Measure - 240 Pieces

**007950011700**



Solenoid Washers Kit: Diam. 22,80 - Hole 19,50 Thickness: 1,512 - 1,684 - Cut 0,004 -44 Measure - 440 Pieces

**007950011775**



Calibration Thickness Kit: Diam. 5,10 - Hole 3,00 Thickness: 1,00 - 2,00 - Cut 0,02 -51 Measure - 510 Pieces

**007950011705**



Solenoid Washers Kit: Diam. 22,00 - Hole 19,00 Thickness: 0,90 - 1,40 - Cut 0,01 -51 Measure - 510 Pieces

**007950011780**



Bosch Coil Gasket Set - Diameter : 23,70 Mm. Opening: 19,00 Mm. Thickness: 0,90 - 1,00 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs

**007950011110**



Bosch Hex Coil Gasket Set - Diameter : 22,00 Mm. Opening: 18,00 Mm. Thickness: 1,00 - 1,10 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs X Thickness All: 110 Pcs

**007950011190**



Bosch Coil Gasket Set - Diameter : 23,70 Mm. Opening: 19,00 Mm. Thickness: 1,10 - 1,20 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs

**007950011120**



Bosch Hex Coil Gasket Set - Diameter : 22,00 Mm. Opening: 18,00 Mm. Thickness: 0,90 - 1,00 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs X Thickness All: 110 Pcs

**007950011200**



Bosch Hex Coil Gasket Set - Diameter : 22,00 Mm. Opening: 19,00 Mm. Thickness: 0,90 - 1,00 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs X Thickness All: 110 Pcs

**007950011170**



Bosch Coil Gasket Set - Diameter : 22,80 Mm. Opening: 19,50 Mm. Thickness: 1,34 - 1,76 Mm. (22 Dimensions) Tolerance: Every 0.02 Mm. Box: 10 Pcs X Thickness All: 220 Pcs

**007950011130**



Solenoid Washers Kit: Diam. 22,00 - Hole 19,00 Thickness: 1,21 - 1,38 - Cut 0,01 -18 Measure - 180 Pieces

**007950011785**



Solenoid Washers Kit: Diam. 15,70 - Hole 10,50 Thickness: 1,19 - 1,33 - Cut 0,004 -36 Measure - 360 Pieces

**007950011740**



Solenoid Washers Kit: Diam. 22,00 - Hole 19,00 Thickness: 0,90 - 1,12 - Cut 0,01 -23 Measure - 230 Pieces

**007950011790**



Bosch Coil Gasket Set - Diameter : 15,70 Mm. Opening: 10,50 Mm. Thickness: 1,10 - 1,20 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs X Thickness All: 110 Pcs

**007950011100**



Solenoid Washers Kit: Diam. 22,00 - Hole 18,00 Thickness: 0,950 - 1,054 - Cut 0,004 -27 Measure - 270 Pieces

**007950011795**



Kit Of Pointers Diam: 5,90 Thickness 8,40 - 8,70 - Cut 0,01 -3 Measure -310 Pieces

**007950011805**



Kit Of Circular Washers. The Kit Is Composed Of 110 Items. The Range Of Thickness Is From 1,00Mm To 1,10Mm. Att: Thickness Each 0.01Mm!

**007950010550**



Kit Of Pointers Diam: 5,90 Thickness 8,277 - 8,571 - Cut 0,012 -26 Measure -260 Pieces

**007950011810**



Kit Of Hexagonal Washers. The Kit Is Composed Of 110 Items. The Range Of Thickness Is From 1,00Mm To 1,10Mm. Att: Thickness Each 0.01Mm!

**007950010540**



Kit Of Pointers Diam: 5,80 Thickness 8,277 - 8,571 - Cut 0,012 -26 Measure -260 Pieces

**007950011815**



Bosch Hex Coil Gasket Set - Diameter : 22,00 Mm. Opening: 19,00 Mm. Thickness: 1,30 - 1,40 Mm. (11 Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs X Thickness All: 110 Pcs

**007950011180**



Kit Of Pointers Manufactured Utilizing A Suitable Horizontal Flat. The Kit Is Composed Of 110 Items. The Range Of Thickness Is From 8,40Mm To 8,50Mm. Att: Thickness Each 0.01Mm!

**007950010510**



Calibration Spacers Set - Valve And Ball Seat Distance For Bosch Diameter: 5,80 Mm. Thickness: 8,40 – 8,50 Mm. (11 Dimensions) Tolerance: Co 0.01 Mm. Box: 10 Pcs X Thickness All: 110 Pcs



**007950011230**

Kit Of Pointers Manufactured Utilizing A Suitable Horizontal Flat. The Kit Is Composed Of 110 Items. The Range Of Thickness Is From 8,40Mm To 8,50Mm. Att: Thickness Each 0.01Mm!



**007950010570**

Calibration Spacers Set - Valve And Ball Seat Distance For Bosch Diameter: 5,80 Mm.



**007950011240**

Kit Of Pointers Diam: 2,30 Thickness: 1,00 - 1,36 - Cut 0,01 -37 Measure -370 Pieces



**007950011830**

Kit of shims to modify the quantity of fuel on the common rail injectors Fase 2. Diam: 2.25 mm Thickness: 1.14 - 1.25 mm (12 measure) Cut: each 0.01 mm, Box: 10 items x thickness Total: 120 items



**007950010600**

Kit of shims to modify the quantity of fuel on the common rail injectors Fase 2. Diam: 2.25 mm, Thickness: 0.95 - 1.13 mm (19 measure), Cut: each 0.01 mm Box: 10 items x thickness, Total: 190 items



**007950011280**

Calibration Spacers Set - Valve And Ball Seat Distance For Bosch Diameter: 2,30 Mm. Thickness: 0,90 – 1,01 Mm. (12 Dimensions) Tolerance: Co 0.01 Mm. Box: 10 Pcs X Thickness All: 1



**007950011290**

Calibration Spacers Set - Valve And Ball Seat Distance For Bosch Diameter: 2,30 Mm. T



**007950011300**

Tool Kit Of Balancing Spacers. With 5 Diameters (1,5-11-10-9-7,5 Mm) And 3 Spacers (0,05-0,1-0,2 Mm), Tot. N. 15 Tools



**007950010440**

Tool Kit Of Balancing Spacers Diam. 9,80Mm. With Spacers From 1,00 To 1,95 Mm. One Every 0,05 Mm; Tot. N. 400 Tools



**007950010450**

Tool Kit Of Balancing Spacers Diam. 11,4Mm. With Spacers From 0,80 A 1,95 Mm. One Every 0,05 Mm; Tot. N. 480 Tools



**007950010460**

Tool Kit Of Balancing Spacers Diam. 11,4Mm. With Spacers From 0,80 A 1,95 Mm. One Every 0,05 Mm; Tot. N. 480 Tools



**007950010470**

Tool Kit Of Balancing Spacers Diam. 9,40Mm. With Spacers From 0,80 To 1,95 Mm. One Every 0,05 Mm; Tot. N. 480 Tools



**007950010480**

Tool Kit Of Balancing Spacers Diam. 8,50Mm. With Spacers From 0,80 To 1,95 Mm. One Every 0,05 Mm; Tot. N. 480 Tools



**007950010490**

Tool Kit Of Balancing Spacers Diam. 6,85Mmm. With Spacers From 1 To 1,95 Mm. One Every 0,05 Mm; Tot. N. 480 Tools



**007950010500**

Bosch Gasket Set - Diameter : 6,40 Mm. Opening: 2,50 Mm. Thickness: 1,20 – 1,30 Mm. (11Dimensions) Tolerance: Every 0.01 Mm. Box: 10 Pcs X Thickness All : 110 Pcs



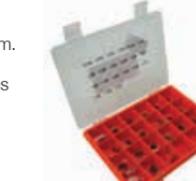
**007950010920**

Bosch Gasket Set - Diameter : 7,70 Mm. Opening: 4,40 Mm. Thickness: 0,98 – 1,44 Mm. (24 Rozmiary) Tolerance: Every 0.02 Mm. Box: 10 pcs uk X Thickness All: 240 Pcs



**007950010930**

Bosch Gasket Set Diameter: 5,300 Mm. Hole 3,50 Mm. Thickness: 0,90 – 1,90 Mm. (21 Sizes Tolerance every 0.05 Mm. Box: 10 Pcs X Thickness, In total: 210 Pcs



**007950010940**

Bosch Gasket Set Diameter: 5,300 Mm. Hole 3,50 Mm. Thickness: 1,20 - 1,70 Mm. (24 Sizes Tolerance every 0.02 Mm. Box: 10 Pcs X Thickness, In total: 240 Pcs No Dimensions 1,22 And 1,68Mm



**007950010520**

Kit of common rail calibration thickness. Diam: 5,30 mm. Hole: 3,50 mm Thickness: 1,20 - 1,70 mm (11 measures) Cut: each 0.05 mm. Box: 10 items x thickness Total: 110 items



**007950010950**

Bosch Gasket Set Diameter: 5,300 Mm. Hole 3,50 Mm. Thickness: 1,40 – 1,86 Mm. (24 Sizes Tolerance every 0.02 Mm. Box: 10 Pcs X Thickness, In total: 240 Pcs



**007950010960**

Kit Of Common Rail Calibration Thickness. The Kit Is Composed Of 240 Items, Diameter 5,30Mm, Hole 2,40Mm. The Range Of Thickness Is From 1,20Mm To 1,70Mm. Att: Thickness Each 0.02Mm!



**007950010590**

Bosch Gasket Set Diameter: 5,300 Mm. Hole 2,40 Mm. Thickness: 1,72 – 1,90 Mm. (10 Sizes Tolerance every 0.02 Mm. Box: 10 Pcs X Thickness, In total: 100 Pcs



**007950010970**

Kit of common rail calibration thickness. Diam: 5,10 mm Hole: 3,00 mm. Thickness: 1,60 - 1,86 mm (14 measures) Cut: each 0.02 mm Box: 10 items x thickness. Total: 140 item



**007950010980**

Kit of common rail calibration thickness. Diam: 5,10 mm. Hole: 3,00 mm Thickness: 1,00 - 1,20 mm (11 measures) Cut: each 0.02 mm. Box: 10 items x thickness Total: 110 items



**007950010990**

Bosch Gasket Set Diameter: 4,50 Mm. Hole: 2,50 Mm. Thickness : 1,20 – 1,70 Mm. (24 Sizes Tolerance: every 0.02 Mm. Box: 10 Pcs X Thickness, In total : 240 Pcs No Dimensions 1,22 And 1,68Mm



**007950010560**

Bosch Gasket Set - Diameter : 4,50 Mm. Opening: 2,50 Mm. Thickness: 1,20 – 1,70 Mm. (11 Dimensions) Tolerance: Every 0.05 Mm. Box: 10 Pcs X Thickness All: 110 Pcs



**007950011010**

Kit of common rail calibration thickness. Diam: 4,50 mm, Hole: 2,50 mm Thickness: 1,64 - 1,86 mm (12 measures) Cut: each 0.02 mm, Box: 10 items x thickness Total: 120 items



**007950011020**

Kit of common rail calibration thickness. Diam: 4,20 mm. Hole: 2,30 mm Thickness: 1,20 - 1,70 mm (24 measures) without 1,22 and 1,68 mm. Cut: each 0.02 mm Box: 10 items x thickness. Total: 240 items



**007950010580**

Bosch Gasket Set Diameter: 4,20 Mm. Hole : 2,30 Mm. Thickness: 1,20 – 1,70 Mm. (11 Sizes Tolerance: every 0.05 Mm. Box: 10 Pcs X Thickness, In total: 110 Pcs



**007950011030**

Bosch Gasket Set - Diameter : 4,20 Mm. Opening: 2,30 Mm. Thickness: 1,70 – 1,96 Mm. (14 Dimensions) Tolerance: Every 0.02 Mm. Box: 10 Pcs X Thickness All: 140 Pcs



**007950011040**

Kit of common rail calibration thickness.  
Diam: 4,00 mm. Hole: 2,30 mm  
Thickness: 1,20 - 1,70 mm (24 measures)  
without 1,22 and 1,68. Cut: each 0,02 mm  
Box: 10 items x thickness. Total: 240 items



**007950011050**

Bosch Gasket Set - Diameter : 4,00 Mm.  
Opening: 2,30 Mm. Thickness: 1,72 - 1,90 Mm.  
(10 Dimensions) Tolerance: Every 0,02 Mm.  
Box: 10 Pcs X  
ThicknessAll: 100 Pcs



**007950011060**

Kit Of 20 Washers And 50 Balls



**007950010610**

Splint Holding Valve Spring - Bosch



**007950011310**

Splint For Return - Bosch



**007950011320**

Set - 50 Balls, Size 1,34Mm



**007950010350**

Set - 50 Balls (Original Bosch)



**007950010360**

Cooper washers kit composed of 19 different  
types of washers (50 pieces for each washers)  
and back leak connection 1 and 2 ways.



**007950010370**

Kit Of Pointers Diam: 5,40 Thickness: 1,155 -  
1,265 - Cut 0,01 -12 Measure -120 Pieces



**007950011840**

Kit Of Pointers Diam: 10,00 Thickness: 2,00 -  
2,50 - Cut 0,05 -11 Measure -110 Pieces



**007950011835**

Kit Of Thickness For Injector PumpDiam: 9,20  
Thickness: 1,00+1,01 - 1,45 - Cut 0,02 -24  
Measure - 240 Pieces



**007950011845**

Kit Of Thickness For Injector Pump Diam: 7,30  
Thickness: 1,00+1,01 - 1,45 - Cut 0,02 -24  
Measure - 240 Pieces



**007950011850**

Kit Of Thickness For Injector Pump Diam: 5,50  
Thickness: 1,00+1,01 - 1,45 - Cut 0,02 -24  
Measure - 240 Pieces



**007950011860**

Kit Of Caps X Injector Pump  
Thickness: 14,66 - 14,88  
- Cut 0,02 - 12 Measure - 60 Pieces



**007950011880**

Kit Of Caps X Injector Pump  
Thickness: 14,56 - 14,78  
- Cut 0,02 - 12 Measure -



**007950011885**

Kit Of Caps X Injector Pump  
Thickness: 14,80 - 15,10  
- Cut 0,02 - 16 Measure -80 Pieces



**007950011890**

Kit Of Caps X Injector Pump  
Thickness: 9,40 - 9,60  
- Cut 0,02 - 11 Measure - 55 Pieces



**007950011895**

## Spare parts for Denso injector repair

Denso Octagonal Coil Gasket Set - Diameter :  
23,20 Mm. Opening: 20,00 Mm. Thickness: 2,99  
- 3,10 Mm. (12 Dimensions) Tolerance: Every 0,01  
Mm. Box: 10 Pcs X Thickness All: 120 Pcs



**007950011220**

Denso Gasket Set - Diameter : 6,75 Mm. Opening:  
3,50 Mm. Thickness: 1,75 - 2,30 Mm.  
(12 Dimensions) Tolerance: Every 0,05 Mm.  
Box: 10 Pcs X  
Thickness All: 120 Pcs



**007950011090**

Denso Coil Gasket Set - Diameter: 24,30 Mm.  
Opening: 21,50 Mm. Thickness: 1,50 - 1,72 Mm.  
(12 Dimensions) Tolerance: Every 0,02 Mm. Box:  
10 Pcs X Thickness All: 230 Pcs



**007950011150**

Denso Coil Gasket Set - Diameter : 24,30 Mm.  
Opening: 21,50 Mm. Thickness: 1,50 - 1,72 Mm.  
(23 Dimensions) Tolerance: Every 0,01 Mm. Box:  
10 Pcs X Thickness All: 230 Pcs



**007950011160**

Calibration Thickness Kit: Diam. 5,80 - Hole 3,00  
Thickness: 1,10 - 1,65 - Cut 0,05 -12 Measure -  
120 Pieces



**007950011650**

Calibration Thickness Kit: Diam. 5,80 - Hole 3,00  
Thickness: 1,10 - 1,60 - Cut 0,02 -26 Measure -  
260 Pieces



**007950011655**

Calibration Thickness Kit: Diam. 5,80 - Hole 3,00  
Thickness: 1,75 - 2,30 - Cut 0,05 -12 Measure -  
120 Pieces



**007950011660**

Calibration Thickness Kit: Diam. 5,80 - Hole 3,00  
Thickness: 1,60 - 2,30 - Cut 0,02 -36 Measure -  
360 Pieces



**007950011665**

Solenoid Washers Kit: Diam. 24,30 - Hole 21,50  
Thickness: 1,20 - 1,74 - Cut 0,02 -28 Measure -  
280 Pieces



**007950011745**

Solenoid Washers Kit: Diam. 24,30 - Hole 21,50  
Thickness: 1,20 - 1,73 - Cut 0,01 -56 Measure -  
560 Pieces



**007950011750**

Solenoid Washers Kit: Diam. 24,30 - Hole 21,50  
Thickness: 1,435 - 1,70 - Cut 0,05 -54 Measure -  
540 Pieces



**007950011755**

Solenoid Washers Kit: Oct . 23,20 - Hole 20,00  
Thickness: 2,99 - 3,15 - Cut 0,01 -17 Measure -  
170 Pieces



**007950011800**

Denso O'Ring (10 Pc) Under Solenoid



**007950030070**

O'Ring (10 Pc) Up Solenoid



**007950030075**

Denso O'Ring (10 Pc) Under Solenoid



**007950030080**

Denso O'Ring Diam. 17X2Mm



**007950030085**

Denso O'Ring Diam. 15x2,3 mm  
**007950030090**



Denso Nut:  
095000-0530  
**007950030490**



Denso Kit O'Ring  
(007950030080+007950030090)  
**007950030095**



Denso Nut:  
095000-7890, 095000-5031,  
095000-5780  
**007950030495**



Denso Kit O'Ring  
(007950030080+007950030085)  
**007950030100**



Denso Nut:  
095000-5080, 095000-6130  
**007950030500**



Denso O'Ring (10 Pc) Under Solenoid  
**007950030125**



Denso Nut X Injector Piezo  
**007950030505**



Denso O'Ring Up Injector (10 Pc)  
**007950030130**



Denso Pin Plunger For:  
095000-580  
**007950030350**



Denso Nut:  
095000-5600, 095000-5760,  
095000-5130, 095000-6020,  
095000-580#, 095000-602  
**007950030475**



Denso Pin Plunger For: 095000-764, 095000-728, 095000-691, 095000-604, 095000-623, 095000-770, 095000-771, 095000-673, 095000-753, 095000-769, 095000-733, 095000-668, 095000-697, 095000-761, 095000-725, 095000-690, 095000-561, 095000-767, 095000-731, 095000-641, 095000-696  
**007950030355**



Denso Nut:  
095000-5610, 095000-6760,  
095000-6680, 095000-7761,  
095000-7781  
**007950030480**



Denso Pin Plunger:  
095000-576  
**007950030360**



Denso Nut:  
095000-0570  
**007950030485**



Denso Pin Plunger:  
095000-503, 095000-785  
**007950030365**



Denso Pin Plunger:  
095000-778, 095000-741, 095000-676,  
095000-703, 095000-776, 095000-739,  
095000-552, 095000-593, 095000-829,  
095000-592  
**007950030370**



Denso Pin Plunger:  
095000-551, 095000-665  
**007950030410**



Denso Pin Plunger: 095000-547,  
095000-890, 095000-636  
**007950030375**



Denso Pin Plunger: 095000-801  
**007950030415**



Denso Pin Plunger: 095000-613  
**007950030380**



Denso Pin Plunger 095000-652  
**007950030420**



Denso Pin Plunger: 095000-6022  
**007950030385**



Denso Pin Plunger: 095000-583  
**007950030425**



Denso Pin Plunger: 095000-789  
**007950030390**



Denso Pin Plunger: 295050-001  
**007950030430**



Denso Pin Plunger: 095000-508  
**007950030395**



Denso Pin Plunger: 095000-622  
**007950030435**



Denso Pin Plunger: 095000-560  
**007950030400**



Denso Pin Plunger: 095000-810  
**007950030440**



Denso Pin Plunger: 095000-578  
**007950030405**



Denso Pin Plunger: 095000-521  
**007950030445**



Denso Pin Plunger: 095000-625, 095000-565  
**007950030450**



Denso Valve For: 095000-503, 095000-785, 095000-789, 095000-679, 095000-522, 095000-635, 095000-659  
**007950030265**



Denso Pin Plunger: 095000-679  
**007950030455**



Denso Valve For: 095000-778, 095000-741, 095000-676, 095000-703, 095000-776, 095000-739, 095000-552, 095000-593, 095000-829, 095000-592  
**007950030270**



Denso Pin Plunger: 095000-522  
**007950030460**



Denso Valve For: 095000-547, 095000-551, 095000-890, 095000-665  
**007950030275**



Denso Pin Plunger: 095000-635, 095000-659  
**007950030465**



Denso Valve For: 295050-001  
**007950030280**



Denso Pin Plunger: 095000-513, 095000-518  
**007950030470**



Denso Valve For: 095000-602, 095000-652, 095000-583, 095000-513, 095000-518  
**007950030285**



Denso Valve For: 095000-580  
**007950030250**



Denso Valve For: 095000-767, 095000-731, 095000-641, 095000-696  
**007950030290**



Denso Valve For: 095000-764, 095000-728, 095000-691, 095000-604, 095000-623  
**007950030255**



Denso Valve For: 095000-625, 095000-565  
**007950030295**



Denso Valve For: 095000-576  
**007950030260**



Denso Valve For: 095000-636  
**007950030300**



Denso Valve For: 095000-521  
**007950030305**



Denso Valve For: 095000-508  
**007950030345**



Denso Valve For: 095000-801 - 095000-810  
**007950030310**



Denso Pin Diam. 2,5 Mm-  
Lenght: 8,70 Mm  
**007950030105**



Denso Valve For: 095000-622  
**007950030315**



Denso Pin Diam. 1,80 Mm  
Lenght: 6 Mm  
**007950030110**



Denso Valve For: 095000-578  
**007950030320**



Denso Pin Diam. 2 Mm-  
Lenght: 6,8 Mm  
**007950030115**



Denso Valve For: 095000-613  
**007950030325**



Denso Pin Diam. 1,80 Mm-  
Lenght: 14 Mm  
**007950030120**



Denso Valve For: 095000-759, 095000-733, 095000-668, 095000-697  
**007950030330**



Denso Spring Diam. 3,7 Mm -  
Lenght:18,80 Mm  
**007950030135**



Denso Valve For: 095000-560  
**007950030335**



Denso Spring Diam. 5,50 Mm -  
Lenght:13 Mm  
**007950030140**



Denso Valve For: 095000-761, 095000-725, 095000-690, 095000-561, 095000-611  
**007950030340**



Denso Spring Diam. 6,50 Mm -  
Lenght:15,30 Mm  
**007950030145**



Denso Semi-Sphere  
**007950030150**



Denso Copper Heat Shield  
11176-30010  
**007950030190**



Denso - Shutter With Sphere  
**007950030155**



Denso Copper Heat Shield 11176-26030  
**007950030195**



Denso Ring Nut  
**007950030160**



Denso Copper Heat Shield  
11176-26020  
**007950030200**



Denso Guide Bush  
**007950030165**



Denso Washer Under Nut  
**007950030205**



Denso Plastic Bush 23256-27010  
**007950030170**



Denso Valve  
**007950030210**



Denso Plastic Bush 23256-27020  
**007950030175**



Denso Valve  
**007950030215**



Denso Plastic Bush 23256-30010  
**007950030180**



Denso Double Valve  
**007950030220**



Denso Copper Heat Shield  
11176-30011  
**007950030185**



Denso Joint 2 Way  
**007950030225**



Denso Joint 3 Way  
**007950030230**



Denso Joint  
**007950030235**



Denso sealing set: (007950030235,  
007950030205, 007950030230,  
007950030075, 007950030130)  
**007950030240**



### Spare parts for Siemens injector repair

A Set Of Calibration Shims Siemens HeX  
18, hole 14,5 thickness from 9 to 1,132  
gradation 0,004

**007950030880**



Siemens Hex Coil Gasket Set -  
Diameter : 18,00 Mm.  
hole: 14,00 Mm,  
Thickness: 0,90 – 1,13 Mm,  
(24 Dimensions),  
Tolerance: Co 0,01 Mm,  
Box: 10 Pcs X Thickness,  
All: 240 Pcs

**007950011210**



A Set Of Calibration Shims Siemens:  
Diameter 5.70 - 3.00 Hole Thickness:  
1.20 - 1.90 - 0.02 Tolerance  
- 36 Sizes - 360 Pieces

**007950011670**



Siemens Gasket Set - Diameter: 5,70 Mm.  
Opening: 3,00 Mm. Thickness: 1,25 – 1,80  
Mm. (12 Dimensions) Tolerance: Every 0.05  
Mm. Box: 10 Pcs X Thickness, All: 120 Pcs

**007950011070**



Siemens Gasket Set - Diameter: 5,70 Mm.  
Opening: 3,00 Mm. Thickness: 1,26 – 1,72  
Mm. (24 Dimensions) Tolerance: Every 0.02  
Mm. Box: 10 Pcs X Thickness All: 240 Pcs

**007950011080**



Siemens Coil Gasket Set - Diameter : 20,00  
Mm. Opening: 13,70 Mm. Thickness: 0,80 –  
1,20 Mm. (21 Dimensions) Tolerance: Every  
0.02 Mm. Box: 10 Pcs X Thickness  
All: 210 Pcs

**007950011140**



Calibration Spacers Set - Valve And Ball Seat  
Distance For Siemens Thickness: 7,76 –  
8,18 Mm. (22 Dimensions) Tolerance:  
Co 0.02 Mm. Box: 10 Pcs X Thickness  
All: 220 Pcs

**007950011270**



## Spare parts for Delphi injector repair

Kit Of Pointers  
Thickness: 3,80 - 4,90  
- Cut: 0,10 mm (12 Measure)  
- 120 Pieces

**007950011820**



Kit Of Thickness For Injector Pump  
Diam: 7,50 - Hole 3,00 Thickness:  
0,30+0,42-0,58 - Cut 0,02 -10  
Measure - 100 Pieces

**007950011870**



Kit Of Pointers Thickness: 3,75 - 4,90 - Cut:  
0,05 mm (24 Measure) - 240 Pieces

**007950011825**



Kit Of Thickness For Injector Pump  
Diam: 5,00 - Hole 2,50 Thickness:  
0,502 - 0,995 - Cut 0,017 -30  
Measure -300 Pieces

**007950011875**



Calibration Spacers Set - Valve And Ball Seat  
Distance For Delphi: Height: 3,75 - 4,90 mm,  
(24 Measure), Cut 0,05 mm, Box: 10 Pieces X  
Measure All: 240 Pieces

**007950011250**



Denso Plastic Bush 23256-27010v

**007950030170**



Calibration Spacers Set - Valve And Ball Seat  
Distance For Delphi: Height: 3,80-4,90mm,  
(12 Measure), Cut: 0,10 mm,  
Box: 10 szt X Measure,  
All: 120 Pieces

**007950011260**



Denso Plastic Bush 23256-27020

**007950030175**



Kit Of Thickness For Injector Pump  
Diam: 5,80 Thickness: 2,24 - 2,94 -  
Cut 0,02 - 36 Measure - 360 Pieces

**007950011855**



Denso Plastic Bush 23256-30010

**007950030180**



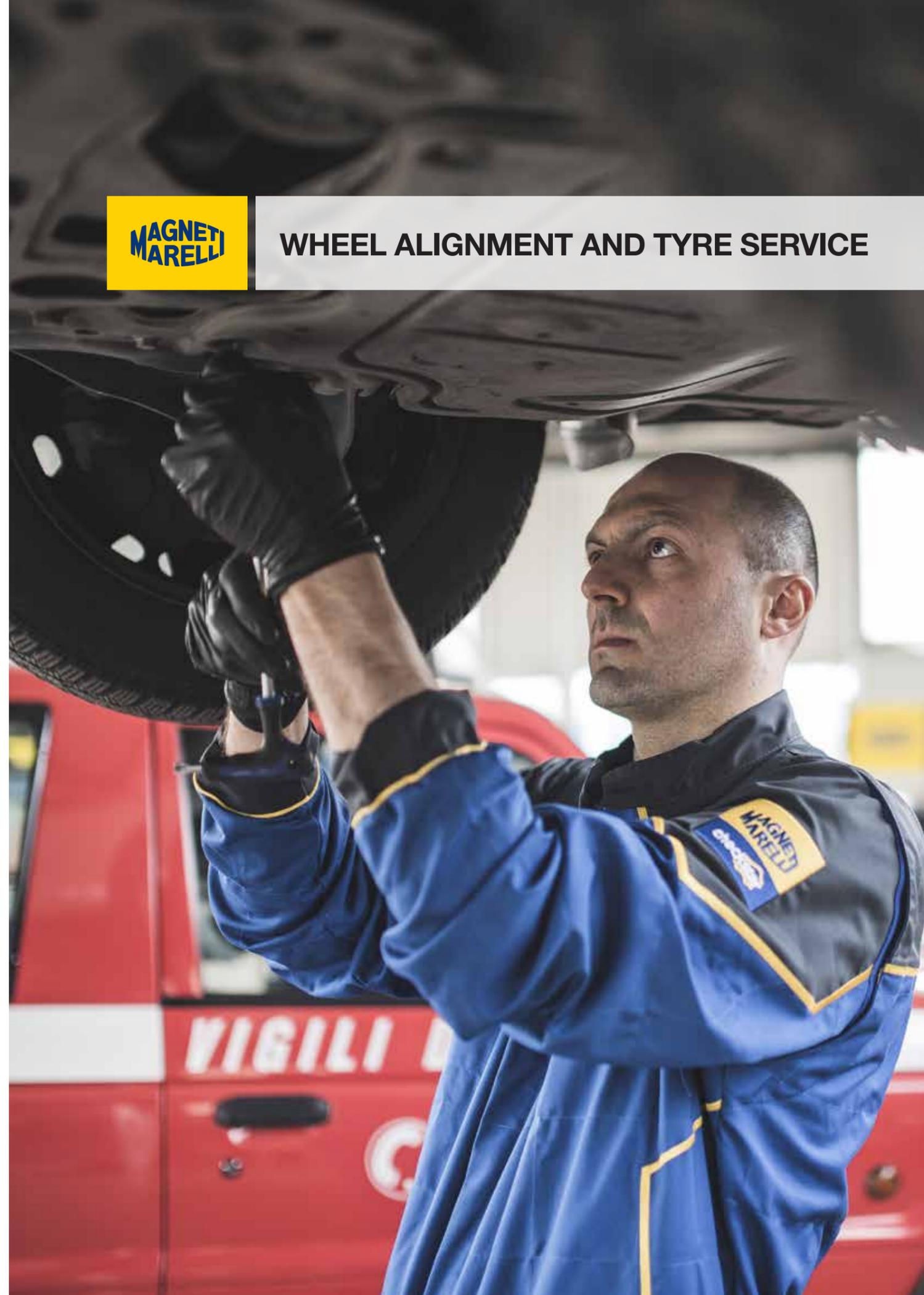
Denso - Shutter With Sphere:  
Diameter: 7,50 mm, Hole: 3,00 mm,  
Thickness: 0,30+0,42-0,70+1,00+1,28+1,56 mm,  
Cut: 0,02 mm (19 Measure) - 190 Pieces

**007950030155**



Denso Copper Heat Shield  
11176-30011

**007950030185**



## C 880 Wheel alignment 3D The equipment includes: 1 Beam inclusive of 2 cameras (fixed position, different heights possible)

007960009905

### C 880 - the equipment includes:

- ▶ 2 digital cameras (fixed location, facility to change the vertical position)
- ▶ Column
- ▶ Table for a keyboard and a printer
- ▶ PC cabinet
- ▶ 2 front discs + holders 11"-21"  
(+ adapter-extension to 25", with double profiled claws)
- ▶ 2 front discs + holders 11"-21"  
(+ adapter-extension to 25", with double profiled claws)
- ▶ 1 set of wall brackets for hanging discs and holders
- ▶ 2 wall mounting sets for a wall bracket
- ▶ Brake lock
- ▶ Steering lock
- ▶ 2 mechanized turntables with plastic locks for the roll-over control function
- ▶ CD with the database and the software
- ▶ Instruction manual
- ▶ List of spare parts



**Wheel alignment C880 normal version**

007941000212

**Wheel alignment C880 lift version**

007941000211

### ACCESSORIES

Motorized system for vertical camera for C880 (optional)  
**007960009910**



Drive-on system (SW + 2 cameras) (optional) for C880

**007960009915**



Side trolley (single piece) for C880 (optional)  
**007960009920**



Printer Set, Factory Pre-Set For Our Wheel Aligners  
**007960001250**



Special computer dedicated for C800 and C880 (007960009765)  
**007960001230**



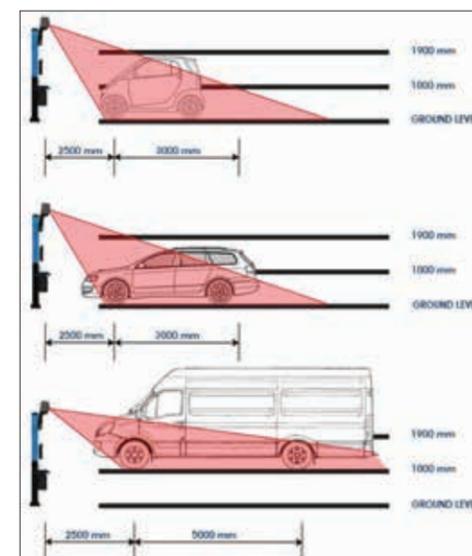
Colour Monitor LCD 18,5"  
**007960001240**



## C 880 TILT wheel alignment 3D (TILT, 2 moving electronic cameras)

007960010020

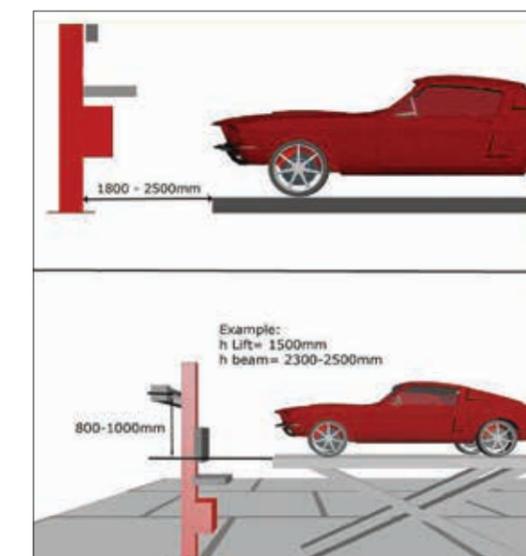
- ▶ Column
- ▶ PC (with Windows), printer, keyboard, mouse
- ▶ Keyboard and printer
- ▶ Cabinet for PC
- ▶ Front wheels + handles 11 "-21"  
(+ extension adapter up to 25", with double profiled claws.)
- ▶ Rear plates + handles 11 "-21"  
(adapter-extension up to 25", double-sided profiled claws.)
- ▶ Set of wall brackets for suspension discs and handles
- ▶ Brake lock
- ▶ Steering wheel lock
- ▶ Mechanical rotors with plastic locks to function "compensation"
- ▶ Database and software CD
- ▶ Manual
- ▶ Spare parts list



## C 880 wheel alignment 3D (Wall-mounted version)

007960010010

- ▶ Wall mounting
- ▶ Keyboard and printer
- ▶ Cabinet for PC
- ▶ Front wheels + handles 11 "-21"  
(+ extension adapter up to 25" with double profiled claws.)
- ▶ Rear plates + handles 11 "-21"  
(+ extension adapter up to 25" with double profiled claws.)
- ▶ Wall bracket set for hanging discs and handles
- ▶ Brake lock
- ▶ Steering wheel lock
- ▶ Rotators with plastic locks for "compensation"
- ▶ Database and software CD
- ▶ Manual
- ▶ Spare parts list
- ▶ No PC, printer and LCD monitor





**C 200**  
Wheel Aligner, With Pc, Windows Xp  
& Keyboard. Set Of Four 8Cmos Radio  
Sensors Included(Turntables, Clamps,  
Printer, Lcd Not Included)  
007960001150

**Equipment:**

- ▶ 8 CMOS sensors
- ▶ 4 Measuring heads + 4 power cables
- ▶ Cabinet for PC, printer, monitor and measuring heads
- ▶ PC + Windows
- ▶ Brake lock
- ▶ Steering wheel lock
- ▶ Database and software on CD
- ▶ User manual

**Specification:**

- ▶ 8 sensors, wireless communication
- ▶ Fully wireless communication between heads 2.4 GHz
- ▶ Each head is powered by 4 internal batteries 2600 mAh each
- ▶ Charging the batteries after placing the heads on a mobile station and connecting the charging cables
- ▶ Extensive multi-brand vehicle database (over 20,000 vehicles including latest models of European and Asian brands)
- ▶ Lightweight and robust measuring heads
- ▶ Lightweight and robust measuring heads
- ▶ PC computer, color printer, LCD monitor, mobile cabinet for system components
- ▶ Professional software containing all necessary, functions and user guidance step by step through the measurement procedure.
- ▶ Simultaneous preview of dependent parameters on one screen
- ▶ Animations of required adjustments (optional)
- ▶ There are two ways to perform the compensation:
  - a) by raising the axle / wheels
  - b) by rolling forward by 90



**C 400**  
Wheel Aligner, With Pc, Windows Xp,  
Keyboard, Emergency Cables.  
Set Of Four 8Ccd Radio Sensors  
Included. (Turntables, Clamps, Printer,  
Lcd Not Included)  
007960009690

Update For C200

007960009760



One-time annual update for C880

007960009960



One-time annual update for C880

007960009950



Roc Push Mode Kit (2Pcs)

007960001360



Pair Of Spoiler Adapters  
For Trucks

007960009730



Motorized system for  
vertical camera for C880  
(optional)  
007960009910



Drive-on system ( SW + 2 cameras)  
(optional) for C880  
007960009915



Side trolley (single piece) for  
C880(optional)  
007960009920



Printer Set, Factory Pre-Set  
For Our Wheel Aligners  
007960001250



Turntable For Steering  
Measurements, Height  
50Mm 1PC  
007960001200



Pair Of Std 4-Point  
Clamps From 10" To 21"  
007960001190



Pair Of Special 4-Point  
Clamps From 10" To 26"  
007960001180



Pair Of Hd 4-Point Clamps  
From 17,5" To 25"  
007960009710



Set Of 12 Claws For  
Iveco Daily Steel Rims.  
007960009600



Complete Set For  
Alloy Rims  
007960001390



Trailer Alignment Kit  
007960009740



Short Car Sliding Plates,  
Height 37Mm  
007960001210



Steering Wheel Water  
Level Gauge  
007960001385



Cable Connection From  
Main Unit To Sensors,  
L=16M  
007960009750



Pair Of 3-Point Manual  
Quick Clamps From 9" To 21"  
007960009610



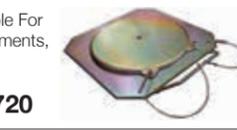
Clamp trolley for C800  
(1pcs) (optional)  
007960009775



Mobility trolley for C880  
007936341000



Single Hd Turntable For  
Steering Measurements,  
450X450X24Mm,  
Load 3.000Kg  
007960009720



Set Of 4 Double Profile Claws  
007960001395



Ttp (Truck & Trailer Procedure) Kit,  
Including Hd Data Bank & Guided Hd  
Alignment Instructions/Images  
007960009700



## Tyre changers

In our specially selected Marelli Magneti offer you will find a wide range of tools that will quickly improve the daily operation of any car workshop. In this category, we present to our customers a diverse selection of solutions for assembly and disassembly of tyres.



**Bravo Line M 42 - Automatic Tyre Changer For Rims From 11" To 22" (Outside), 1-Speed Motor (3Ph-400V-50Hz)**  
007960001030

### Specification:

- ▶ automatic handling of rims from 11 „to 24”
- ▶ external spacing up to 22 „
- ▶ mechanical locking of the stem
- ▶ standard hammer with a pneumatic cylinder
- ▶ one working speed of the bench
- ▶ pneumatic swing arm with a changeable cover
- ▶ set of covers for aluminium rims included
- ▶ supportive arm for unusual wheels (optional)

### Technical data:

- ▶ power of the hammer: 12000 N (at 10 bar)
- ▶ opening of the hammer: 400 mm
- ▶ maximum tire diameter: 1140 mm (44.5 „)
- ▶ maximum width of the tire: 350 mm (14 „)
- ▶ pressure: 8-10 Bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0,75 kW
- ▶ bench speed: 6 rpm
- ▶ weight: 223 kg
- ▶ noise level during operation: <70 dB (A)



**Bravo Line M 42 - Automatic Tyre Changer For Rims From 11" To 22" (Outside), Inflator (3Ph-400V-50Hz)**  
007960009875

### Specification:

- ▶ automatic handling of rims from 11 „to 24”
- ▶ external spacing up to 22”
- ▶ mechanical locking of the stem
- ▶ standard hammer with a pneumatic cylinder
- ▶ one working speed of the bench
- ▶ pneumatic swing arm with a changeable cover
- ▶ a set of covers for aluminium rims included
- ▶ inflator with manometer (optional in FS model).
- ▶ a supportive arm for unusual wheels (optional)

### Technical data:

- ▶ power of the hammer: 12000 N (at 10 bar)
- ▶ opening of the hammer: 400 mm
- ▶ maximum tire diameter: 1140 mm (44.5 ”)
- ▶ maximum width of the tire: 350 mm (14 ”)
- ▶ pressure: 8-10 Bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0,75 kW
- ▶ bench speed: 6 rpm
- ▶ weight: 223 kg
- ▶ noise level during operation: <70 dB (A)



**Bravo Line M 42 - Automatic Tyre Changer For Rims From 11" To 22" (Outside), 2-Speed Motor (3Ph-400V-50Hz)**  
007960009885

### Specification:

- ▶ automatic handling of rims from 11 „to 24”
- ▶ external spacing up to 22”
- ▶ mechanical locking of the stem
- ▶ standard hammer with a pneumatic cylinder
- ▶ two working speeds of the bench
- ▶ pneumatic swing arm with a changeable cover
- ▶ a set of covers for aluminium rims included
- ▶ a supportive arm for unusual wheels (optional)

### Technical data:

- ▶ power of the hammer: 12000 N (at 10 bar)
- ▶ opening of the hammer: 400 mm
- ▶ maximum tire diameter: 1140 mm (44.5 „)
- ▶ maximum width of the tire: 350 mm (14 „)
- ▶ pressure: 8-10 Bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0,75 kW
- ▶ bench speed: 6 rpm
- ▶ weight: 223 kg
- ▶ noise level during operation: <70 dB (A)



**Bravo Line M 42 - Automatic Tyre Changer For Rims From 11" To 22" (Outside), 2-Speed Motor, inflator (3Ph-400V-50Hz)**  
007960009895

### Specification:

- ▶ automatic handling of rims from 11 „to 24”
- ▶ external spacing up to 22”
- ▶ mechanical locking of the stem
- ▶ standard hammer with a pneumatic cylinder
- ▶ one working speed of the bench
- ▶ pneumatic swing arm with a changeable cover
- ▶ a set of covers for aluminium rims included
- ▶ inflator with manometer (optional in FS model)
- ▶ a supportive arm for unusual wheels (optional)

### Technical data:

- ▶ power of the hammer: 12000 N (at 10 bar)
- ▶ opening of the hammer: 400 mm
- ▶ maximum tire diameter: 1140 mm (44.5 „)
- ▶ maximum width of the tire: 350 mm (14 „)
- ▶ pressure: 8-10 Bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0,75 kW
- ▶ bench speed: 6 rpm
- ▶ weight: 223 kg
- ▶ noise level during operation: <70 dB (A)



**M 420 2V 380/3/50 - Automatic Tyre Changer For Rims From 11" To 20" (Outside), 2-Speed Motor (3Ph-400V-50Hz)**  
007960001320

### Specification:

- ▶ automatic tire changer for 11 „to 20” (ext.)
- ▶ 2-speed bench (3Ph-400V-50Hz)
- ▶ automatic handling of rims from 13” to 23”
- ▶ external spacing of up to 20”
- ▶ mechanical locking of the stem
- ▶ standard hammer with pneumatic cylinder
- ▶ two working speeds of the bench
- ▶ pneumatic swing arm with a changeable cover
- ▶ full cover for aluminium rims included
- ▶ Support arm for non-standard wheels (option)

### Technical data:

- ▶ power of hammer: 2800 kgN (at 10 bar)
- ▶ maximum tire diameter: 1000 mm
- ▶ maximum width of the tire: 320 mm (12.5 „)
- ▶ pressure: 8-10 bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0,75 kW
- ▶ weight: 205/215 (FS) kg
- ▶ noise level during operation: <70 dB (A)



**M 420 2V Fs 380/3/50 - Automatic Tyre Changer For Rims From 11" To 20" (Outside), 2-Speed Motor (3Ph-400V-50Hz) With Inflator**  
007960001330

### Specification:

- ▶ automatyczna montażownica do felg o rozmiarach od 11” do 20” (zewnętrznie)
- ▶ 2-prędkości stołu (3Ph-400V-50Hz)
- ▶ automatyczna obsługa felg od 13” do 23”
- ▶ zewnętrzny rozstaw do 20”
- ▶ blokada mechaniczna trzpienia
- ▶ standardowy zbijak z pneumatycznym cylindrem
- ▶ pneumatyczne odchylane ramię ze zmienną osłoną
- ▶ komplet osłon do alufelg w komplecie
- ▶ inflator z manometrem
- ▶ ramię pomocnicze do felg nietypowych (opcja)

### Technical data:

- ▶ power of hammer: 2800 kgN (at 10 bar)
- ▶ maximum tire diameter: 1000 mm
- ▶ maximum width of the tire: 320 mm (12.5 ”)
- ▶ pressure: 8-10 bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0,75 kW
- ▶ weight: 205/215 (FS) kg
- ▶ noise level during operation: <70 dB (A)



**M 522 2V - Automatic Tyre Changer For Rims From 11" To 22" (Outside), 2-Speed Motor (3Ph-400V-50Hz)**  
007960001000

**Specification:**

- ▶ automatic handling of rims from 13 „to 24"
- ▶ external spacing up to 22"
- ▶ internal and external terminals with plastic covers for aluminium rims
- ▶ ideal for low profile tires and „run flat" (with optional arm)
- ▶ mechanical locking of the stem
- ▶ standard hammer
- ▶ two working speeds of the bench (6-12rpm)
- ▶ pneumatic swing arm
- ▶ full cover for aluminium rims included
- ▶ inflator with manometer (option in FS model)
- ▶ support arm for non-standard wheels (option)

**Technical data:**

- ▶ hammer power: 15000 N (at 10 bar)
- ▶ opening of the hammer: 320 mm
- ▶ maximum tire diameter: 1060 mm
- ▶ maximum width of the tire: 305 mm (12 „)
- ▶ pressure: 8-10 bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ engine power: 0.9/1.2 kW – 3Ph – 400 V – 50Hz
- ▶ torque of the bench: 1200 Nm
- ▶ weight: 225 kg
- ▶ noise level during operation: 70 dB (A)



**M 522 2V - Automatic Tyre Changer For Rims From 11" To 22" (Outside), 2-Speed Motor (3Ph-400V-50Hz), Inflator**  
007960010100

**Specification:**

- ▶ automatic handling of rims from 13" to 24"
- ▶ external spacing of up to 22"
- ▶ internal and external clamps with plastic Alloy pads
- ▶ ideal for low profile tires and „run flat" (with optional arm)
- ▶ mechanical locking of the stem
- ▶ standard hammer
- ▶ two table speeds (6-12rpm)
- ▶ pneumatic tilt arm
- ▶ complete set of aluviel covers
- ▶ Support arm for non-standard wheels (optional)

**Technical data:**

- ▶ hammer weight: 15000 N (at 10 bar)
- ▶ opening of the hamme: 320 mm
- ▶ maximum tire diameter: 1060 mm
- ▶ maximum tire width: 305 mm (12")
- ▶ pressure: 8-10 bar
- ▶ power supply: 400V - 3Ph - 50Hz
- ▶ motor power: 0.9/1.2 kW – 3Ph – 400 V – 50Hz
- ▶ torque of the bench: 1200 Nm
- ▶ weight: 225 kg
- ▶ noise level at work: 70 dB (A)



**Tyre changer MM-TC1223**  
007935017235

**Specification:**

- ▶ automatic handling of rims from 11" do 26"
- ▶ external spacing of up to 23"
- ▶ mechanical locking of the stem
- ▶ standard hammer with a pneumatic cylinder
- ▶ pneumatic swing arm with a changeable cover
- ▶ a set of covers for aluminium rims included
- ▶ a supportive arm for unusual wheels (optional)

**Technical data:**

- ▶ external locking rim size 12-23"
- ▶ internal locking rim size 14-26 „
- ▶ max. wheel diameter 1143mm (45" )
- ▶ max. wheel width 406mm (16" )
- ▶ operating pressure: 8-10 bar
- ▶ power supply 110V (1ph)/ 220V (1ph)/ 380V (3ph)
- ▶ optional motor power 0,75/0,55/1,1 kw
- ▶ max. torque (turntable) 1078 Nm
- ▶ overall dimensions 1130x900x1050mm
- ▶ noise level <75dB



**Tyre changer MM-TC12232V(2 SPEED)**  
007935017240

**Specification:**

- ▶ automatic handling of rims from 11" do 26"
- ▶ external spacing up to 23"
- ▶ mechanical locking of the stem
- ▶ standard hammer with pneumatic cylinder
- ▶ pneumatic swing arm with a changeable cover
- ▶ full cover for aluminium rims
- ▶ support arm for non-standard wheels (option)

**Technical data:**

- ▶ External locking rim size 12-23"
- ▶ Internal locking rim size 14-26"
- ▶ Max. wheel diameter 1143mm (45" )
- ▶ Max. wheel width 406mm (16" )
- ▶ Operating pressure 8-10bar
- ▶ Power supply 110V (1ph)/ 220V (1ph)/ 380V (3ph)
- ▶ Optional motor power 0.75/0.55/1.1 kW
- ▶ Max. torque (turntable) 1078 Nm
- ▶ Overall dimensions 1130x900x1050mm
- ▶ Noise level: <75dB



**Tyre changer MM-TC12232VIT (2 SPEED,INFLATOR)**  
007935017250

**Specification:**

- ▶ automatic handling of rims from 11" do 26"
- ▶ external spacing up to 23"
- ▶ mechanical locking of the stem
- ▶ standard hammer with pneumatic cylinder
- ▶ two working speeds of the bench
- ▶ pneumatic swing arm with a changeable cover
- ▶ full cover for aluminium rims
- ▶ inflator with manometer
- ▶ support arm for non-standard wheels (option)

**Technical data:**

- ▶ External locking rim size 12-23"
- ▶ Internal locking rim size 14-26"
- ▶ Max. wheel diameter 1143mm (45" )
- ▶ Max. wheel width 406mm (16" )
- ▶ Operating pressure: 8-10 bar
- ▶ Power supply 110V (1ph)/ 220V (1ph)/ 380V (3ph)
- ▶ Optional motor power 0.75/0.55/1.1 kW
- ▶ Max. torque (turntable) 1078 Nm
- ▶ Overall dimensions: 1130x900x1050mm
- ▶ Noise level: <75dB



**Tyre changer MM-TC1223IT (INFLATOR)**  
007935017245

**Specification:**

- ▶ automatic handling of rims from 11" do 26"
- ▶ external spacing up to 23"
- ▶ mechanical locking of the stem
- ▶ standard hammer with pneumatic cylinder
- ▶ full cover for aluminium rims
- ▶ inflator with manometer
- ▶ support arm for non-standard wheels (option)

**Technical data:**

- ▶ External locking rim size 12-23"
- ▶ Internal locking rim size 14-26"
- ▶ Max. wheel diameter 1143mm (45" )
- ▶ Max. wheel width 406mm (16" )
- ▶ Operating pressure: 8-10 bar
- ▶ Power supply 110V (1ph)/ 220V (1ph)/ 380V (3ph)
- ▶ Optional motor power 0.75/0.55/1.1 kW
- ▶ Max. torque (turntable) 1078 Nm
- ▶ Overall dimensions 1130x900x1050mm
- ▶ Noise level <75dB

## Wheel balancers



**B 225 A - Microprocessor Lcd Balancer, Automatic Start, Automatic Measurements, Wheel Guard Included. 40Mm Ø**  
007960001370

### Specification:

- ▶ microprocessor balancer with self-purification and self-diagnosis
- ▶ automatic start after leaving the cover
- ▶ automatic wheel stop at the end of trading
- ▶ automatic meter for entering distance and diameter of the wheel
- ▶ low balancing speed
- ▶ 7 programs for aluminum wheels
- ▶ moving plane - precise determination of the place to glue the weight
- ▶ hidden weight - weight division into two parts and placing it behind the spokes aluminum rims
- ▶ mobile front support base wheels up to 50 kg (optional)

### Technical data:

- ▶ power supply: 115/2230 V - 1Ph - 50/60 Hz
- ▶ shaft diameter 40 mm
- ▶ maximum tire diameter: 1117 mm
- ▶ maximum width of the tire: 600 mm
- ▶ rotational speed: 90 – 130 rpm
- ▶ maximum calculated value unbalance: 999 gr
- ▶ balancing time: 7 sek.
- ▶ weight: 75 kg
- ▶ noise level during operation: 70 dB (A)



**B 325 A - Microprocessor Lcd Balancer, Automatic Start, Automatic Position Searching, Wheel Guard Included. 40Mm Ø**  
007960001020

### Specification:

- ▶ professional, computer balancer for wheels, cars, delivery vans and motorcycles with LCD monitor
- ▶ automatic start after leaving the cover
- ▶ automatic self-diagnosis after starting work
- ▶ automatic wheel braking at the end of trading
- ▶ automatic width measurement rims (optional)
- ▶ variable balancing speed
- ▶ locking shaft lock (controlled button)
- ▶ moving planes - exact determination of the place of sticking the weight
- ▶ RPA - automatic wheel setting in position to attach the weight
- ▶ hidden weight - split the weight into two equal parts and placing it behind the spokes of the aluminum rim
- ▶ weight distribution - weight into two equal parts and placing it on both sides of the spokes (program for motorcycles)
- ▶ „OPT flash” program for elimination remaining unbalance
- ▶ wheels up to 50 kg (optional)

### Technical data:

- ▶ power supply: 115/2230 V - 1Ph - 50/60 Hz
- ▶ shaft diameter: 40 mm
- ▶ maximum tire diameter: 1117 mm
- ▶ maximum width of the tire: 600 mm
- ▶ rotational speed: 90 – 130 rpm
- ▶ maximum calculated value unbalance: 999 gr
- ▶ balancing time: 7 sek.
- ▶ weight: 75 kg
- ▶ noise level during operation: 70 dB (A)



**Bravo Line B 45 AD - Microprocessor Led Balancer, Automatic Start, Manual measurement of parameters 40Mm Ø (NO SAFETY GUARD (NO SAFETY GUARD (007960001120) -TO BUY SEPARATLY). Cones and pilers included**  
007960009860

### Specification:

- ▶ microprocessor balancer with self-calibration and self-diagnosis
- ▶ manual data entry
- ▶ 7 special programs for aluminum rims
- ▶ balancing speed (150 to 200 rpm)
- ▶ manual tests for measuring the distance and diameter of the wheel
- ▶ automatic wheel braking at the end of rotation
- ▶ automatic start after lowering the cover
- ▶ illuminated LED display
- ▶ a great selection of programs to help you working with a machine
- ▶ visualization of unbalance values in grams or ounces

### Technical data:

- ▶ power supply: 115/230 V - 1Ph - 50/60 Hz
- ▶ shaft diameter: 40 mm
- ▶ maximum tire diameter: 1110 mm (43.7")
- ▶ maximum tire width: 580 mm (22,8")
- ▶ pressure: 8-10 bar
- ▶ motor power 2V: 0.9/1.2 kW – 3Ph – 400V – 50Hz
- ▶ balancing time: 7 sek.
- ▶ weight: 70 kg
- ▶ noise level during operation: 70 dB (A)



**Bravo Line B 45 AD - Microprocessor Led Balancer, Automatic Start, Automatic measurement of parameters 40Mm Ø (NO SAFETY GUARD (007960001120) -TO BUY SEPARATLY). Cones and pilers included**  
007960009850

### Specification:

- ▶ microprocessor balancer with self-calibration and self-diagnosis
- ▶ manual data entry
- ▶ 7 special programs for aluminum rims
- ▶ balancing speed (150 to 200 rpm)
- ▶ automatic tests for measuring the distance and diameter of the wheel
- ▶ automatic wheel braking at the end of rotation
- ▶ automatic start after lowering the cover
- ▶ illuminated LED display
- ▶ a great selection of programs to help you working with a machine
- ▶ visualization of unbalance values in grams or ounces

### Technical data:

- ▶ power supply: 115/230 V - 1Ph - 50/60 Hz
- ▶ shaft diameter: 40 mm
- ▶ maximum tire diameter: 1110 mm (43.7")
- ▶ maximum tire width: 580 mm (22,8")
- ▶ pressure: 8-10 bar
- ▶ motor power 2V: 0.9/1.2 kW – 3Ph – 400V – 50Hz
- ▶ balancing time: 7 sek.
- ▶ weight: 70 kg
- ▶ noise level during operation: 70 dB (A)



**Wheel balancer MM-WB1024**  
007935017275

### Specification:

- ▶ LCD display, intuitive and flexible user interface,
- ▶ Various balancing programs: static, dynamic,
- ▶ 5 ALU programs, optimization,
- ▶ Automatic measurement of wheel parameters,
- ▶ Intelligent automatic calibration and self-diagnosis function

### Technical data:

- ▶ Wheel weight max.: 65kg
- ▶ Motor power: 200W
- ▶ Power supply: 220v/50Hz
- ▶ Rotational speed: ±1g
- ▶ Rotation speed: 200obr/min
- ▶ Cycle duration: 8s
- ▶ Rim diameter: 10"-24"(256mm m)
- ▶ Rim width: 1,5"-20"(40mm )
- ▶ Sound level: <70db
- ▶ Net weight: 102Kg
- ▶ Dimensions: 960mm×760mm×1160mm

### Characteristics:

- ▶ Protective cover
- ▶ Cones
- ▶ Pliers
- ▶ Compasses
- ▶ Roller
- ▶ Lock
- ▶ Calibration weight



**Wheel balancer MM-WB1024AW**  
007935017280

**Characteristics:**

- ▶ LCD display, intuitive and flexible
- ▶ Various balancing programs: static, dynamic
- ▶ 5 ALU programs, optimization
- ▶ Automatic measurement of wheel parameters
- ▶ Intelligent automatic calibration and self-diagnosis function

**Technical data:**

- ▶ Wheel weight max.: 65kg
- ▶ Motor power: 200W
- ▶ Power supply: 220v/50Hz
- ▶ Precision balancing: ±1g
- ▶ Rotational speed: 200obr/min
- ▶ Cycle duration: 8s
- ▶ Rim diameter: 10"-24"(256mm m)
- ▶ Rim width: 1,5"-20"(40mm )
- ▶ Sound level: <70db
- ▶ Net weight: 102Kg
- ▶ Dimensions: 960mmx760mmx1160mm

**Standard equipment::**

- ▶ Protective cover
- ▶ Cones
- ▶ Pliers
- ▶ Compasses
- ▶ Roller
- ▶ Lock
- ▶ Calibration weight

Motorcycle adaptor  
MM-WB1024  
**007935017290**



Ally 80-Special arm for low profile  
and flat tyres for M522  
**007960010110**



Large centering cone  
for MM-WB1024  
**007935017285**



Universal wheel flange  
MM-WB1024  
**007935017295**



FSP25 Wheel holder shaft -  
pedal braking kit for B225  
**007960009830**



D. 18 Shaft Set Complete With Cones,  
Bushings And Locking Ring Nut.  
For Very Heavy Motorcycle Wheels  
**007960001310**



Side rubber for brake  
beeder for M42  
**007960009790**



Side rubber for brake  
beeder for M522  
**007960009795**



Helper 4Fd - Multipurpose  
Bead Lifting/Pressing Rh  
Side Helper, For Sport  
Tyres.  
**007960001050**



Helper 4Fd Kit M42-  
Customization Kit &  
Attachment Kit (For Bravo  
Line M 42 Series)  
**007960001060**



Ally 30 Customization  
Kit & Attachment Kit  
(For M 420 Series)  
**007960001070**



Helper 4Fd Kit  
M522-  
Customization Kit &  
Attachment  
Kit (For M522 Series)  
**007960001380**



KP25 Front support  
base for B225/B325  
**007960009840**



Single Plastic Wheel  
Guard For B40 / B45  
**007960001120**



Bead breaker shovel  
protection cover  
**007935017265**



Plastic Cover For Bead Breaker  
6Pcs For M420 And M522  
**007960009640**



Plastic Cover For Head  
Long 5Pcs  
**007960009630**



Plastic Cover For Head 10Pcs  
**007960009620**



Plastic covers for  
jaws long (set 4 pcs)  
**007935017260**



Plastic covers for jaws  
short (set 4 pcs)  
**007935017255**



Help arm FOR  
MM-TC1223  
**007935017270**



Self-Centering Flange For  
Motorcycle Wheels, Rotation  
Via Application To Wheels From  
Outside. The Gtm2 Must Be  
Completed With Garp.

**007960001300**



Belzer Pliers  
**007960001350**



TP25 STD ALU weight  
holder terminal for  
B225/B325  
**007960009835**



Flange for motorcycle  
wheels 15-23"  
**007960009940**



Universal Flange For All  
Wheels With Or Without  
Central Holes. Supplied  
With Wrenches And  
Caliper (Wheels Gauge  
From Ø 90 To 210 Mm.).  
**007960009650**



Set Of 12 Integral Plastic  
Jaws Pads For  
**007960009660**



Set of adapters for ATV  
**007960009935**



Set of adapters for  
motorcross alloys  
**007960009930**



Centering Accessory  
For Vans And Off-Road  
Vehicles With Centre  
Hole Wheels. From Hole  
Ø 117 To 173 Mm

**007960001290**



Accessory For  
Off-Road Wheels  
With Central Hole.  
From Hole Ø 101  
To 119 Mm

**007960001280**



TE40 External gauge  
to acquire the rim width  
automatically for B225/B325

**007960009845**



Kit Of 6 Plastic Covers  
For Tyre Lever  
**007960009670**



Set Of 6 Plastic Covers  
For Bead Breaker  
**007960009680**



SMD sonar for the sensor  
**007960010090**



NEW





007935016720



**Oil Aspirator With Drainer And Oil Measurement 80L**



007935016710



**Oil Aspirator With Drainer 80L**



007935016700



**Oil Aspirator 80L**

	MMOD-02 7935016720	MMOD-01 7935016710	MMOD-03 7935016700
Empty Tank Pressure (Mpa):	0~0.1	0~0.1	0~0.1
Hypertension (bar/psi):	8~10/114~145	8~10/114~145	8~10/114~145
Tank capacity	80 litres	80 litres	80 litres
Performance (liters/m):	1.5~2	1.5~2	1.5~2
Working pressure (bar/psi):	1~2/14~28	1~2/14~28	1~2/14~28
Oil temperature:	40~80	40~80	40~80
Control tank (Liters / gallons):	10/2.6	-	-
Pantograph (liters / gallons)	20	15	-
Standard set:	reservoir, paper holder, reservoir tank	reservoir, paper holder, reservoir tank	reservoir, paper holder, reservoir tank
Included:	plastic probe diameter 6x700mm, plastic probe diameter 8x700mm, plastic probe diameter 6x900mm, plastic probe diameter 8x700mm, copper probe diameter 6x700mm, copper probe diameter 5x700mm		
Dimensions:	470 x 385 x 1600mm	470 x 385 x 1600mm	470 x 385 x 900mm
Weight:	29 / 32 Kg	25 / 27 Kg	22 / 24 Kg

### Brake Fluid Exchanger BF-12

► 007935016730



Universal pneumatic device for brake fluid replacement. The device consists of a stainless steel container, inside which a rubber diaphragm moves, sucking the brake fluid from the vehicle. After filling the internal tank to maximum operating pressure, the device works independently. Just one technician is required to completely replace the fluid. The kit includes service adapters, hoses and two 1-litre reservoirs.

#### Technical data

Operating pressure	0.7 - 3 bar
Dimensions	25x25x7.5 - 6-litre tank
Hose	5 metre (compressed air)
Safety valve	3 Bar



**MM OD-04 Mobile waste oil drainer 80L**  
007935017090

#### Technical data:

- Working pressure: 0,7 - 3 Bar
- Tank 80l
- Pipe (compressed air) 5 meters
- Safety valve: 3 Bar
- Vacuum: 0 ~ -0.1MPa
- Input pressure: 8-10Bar
- Tank capacity (Liters): 80L
- Performance (liters / meter): 1.5-2
- Tank emptying pressure: 12Bar
- Oil temperature range: 40 ~ 80°C
- Shelf for tools
- Paper holder
- Dimensions: 500x420x890mm
- Dimensions of the bowl: 470x470x230mm
- Weight: 24kg



**MM-OD-06 Grease dispenser 130-140 manual**  
007935017125

Manual grease dispenser is a device for lubrication and administration of lubricants into systems requiring lubrication with manual oil pump for vehicle components. The pump is mainly used for workshop applications and guarantees simplicity and easy use, allowing you to adjust the amount and rate of lubricant delivery to your current needs while dosing even small amounts.

#### Technical data:

- Tank capacity: 13 kg / 22.66 lbs
- Pipe diameter: ¼ inch, 2.5 m long
- Working air pressure: 80-115 psi (6-8 kG / cm<sup>2</sup>)
- Delivery rate: Manual
- Oil outlet pressure: 185-200 psi (13-14 kG / cm<sup>2</sup>)
- Frequency-dependent output lever operation



**MM OD-05 Mobile waste drainer oil with measurement 80L**  
007935017095

#### Technical data:

- 76 L tank
- Working temperature: 40-60oC
- Weight: 25 kg
- Inlet connection for air supply of ¼"
- Bowl, dimensions: 470x470x230
- Device size: 500x420x890
- Air inlet pressure: 0,7-8 Bar / 10,2 PSI~116PSI
- Air outlet pressure: 0,6-0,8 Bar / 8,7~10,6PSI
- Oil tray with capacity 15L



**MM-OD-07 Grease dispenser 360-480 with pneumatic pump**  
007935017130

Automatic grease dispenser with a pneumatic pump is a device for lubrication and administration of lubricants in systems requiring lubrication. Oil is delivered to vehicle components with an automatic delivery pump. The pump is mainly intended for use in workshops and guarantees simplicity and easy use allowing you to adjust quantity and rate of lubricant feed up to your needs, dosing even small quantities without much effort.

#### Technical data:

- Tank capacity: 13 kg / 22.66 lbs
- Tube diameter: ¼ inch, 2.5 m in length
- Working pressure: 80-115 psi (6-8 kG / cm<sup>2</sup>)
- Extrusion ratio: 50: 1
- Oil outlet pressure: 4285-5715 psi (350-400 kG / cm<sup>2</sup>)
- Flow rate: 400-600 g/min.

Mobile grease pump unit for drums 180-200 kg 50:1 grease pump 940mm, grease gun, with Z-Swivel and 2 m hose

**007935017135**



- Technical data:**
- Compression ratio: 50: 1
  - Drive: Compressed air compressor
  - Suitable for: All types of grease
  - Compressed air pressure: 6-8 bar (85 ~ 115 psi)
  - Lubricant output: 450 ~ 700 g / min.
  - Pump length: 940 mm / 37 in
  - Inlet air intake: 1/4 " - quick release coupling
  - Max. Load / truck load: 220 kg

Mobile grease pump unit for drums 20kg -60kg 50:1 grease pump 480mm, grease gun, with Z-Swivel and 2 m hose

**007935017140**



- Barrel: 20-60kg
- Pump: 50: 1
- Length of lance: 480mm
- Gun with Z adapter
- 2m cable

Barrel Trolley (180-200L) With Pump 5:1 And Electric Gun, Hose 4M

**007935016760**



- Technical parameters of the 5: 1 pump:**
- Performance: up to 17 l / min
  - Max. fluid pressure: 40 bar
  - Mammal diameter: 30mm, Length: 940 mm
  - Supply pressure: 3-8 bar
  - Connectors: quick coupler input, BSP output
- Technical specifications of the electronic pistol:**
- Flow rate: 1 to 30 l / min
  - Max. Working pressure 70 bar
  - Min. Working pressure 3 bar
  - Precision: ± 5% promulgated
  - Wire diameter: R10
  - BSP / NPT rotary connector
  - Power supply: DC 3V battery

Hose for oil pumps 4m

**007935017155**



Barrel Trolley (180-200L) With Pump 5:1 And Electric Gun, Hose 4M, Hose Ree

**007935016770**



- Technical data**
- 5: 1 pump performance
  - Filling gun with electronic measurement
  - Flexible hose 4m
  - Reel on 15m cable

5:1 oil pump, 270 mm

**007935017100**

5:1 oil pump, 740 mm

**007935017105**

5:1 oil pump, 940 mm

**007935017110**



- Technical data:**
- Compression ratio: 5: 1
  - Drive: Compressed air compressor
  - Compressed air pressure: 3-8 bar
  - Air consumption: 240 L / min.
  - Oil consumption: 14-17 L / min.
  - Pump length: 940 mm / 10.6 inches
  - Air inlet: 1/4 in. - quick release coupling
  - Oil Inlet Connector: Inner Connector with 1/2 "male thread
  - Max. Viscosity of the supplied oil: SAE 250
  - Oil temperature: -10-50 °C
  - Suction tube: 940mm
  - Weight: 5kg

Drum/Barell trolley 20-60kg

**007935017115**



Drum/Barell trolley 180-200kg

**007935017120**



Digital Meter Control Valve with electronic flowmeter and pre selection

**007935017085**



Digital Meter Control Valve with electronic flowmeter

**007935017080**



Oil Control Valve, Without Digital Meter, Rigid Tube With Manual Valve

**007935016820**



Oil Control Valve, Without Digital Meter, Flexible Tube With Automatic Valve

**007935016830**



Hand Oil Pump

**007935016780**



Swivel Bracket For The Wall

**007935016790**



Hose Reel Oil 1/2" 9M 138 Bar

**007935016810**



Hose Reel Air 3/8" 15M 20 Bar

**007935016800**



## Pneumatic coil spring compressor workstation

0079350060300

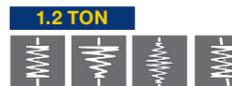


ECO1200

- Pneumatic spring compressor for passengers cars.
- **SAL - Auto Leveling System:** the two auto leveling upper arms allow to work easily both on conical and misaligned springs.
- **Cylinder, stroke and power:** it is possible to use this auto leveling machine also in case of long shock absorbers as the ones installed on commercial vehicles, off roads and wagons, thanks to its 330 mm stroke. With a working pressure of max 8 bar the machine exerts a compression force at 1.226 Kg without losing power.
- **Aluminium technology:** the cylinder is made in light alloy and nylon resin with fiberglass avoiding consequently the corrosion and the oxidation of the parts of the machine.
- **Brackets system:** the frontal and lateral clamps' holders grant quick mounting and dismantling replacement both of the clamps and of the vice. **2**
- **Foot-pedal and safety guard with safety valves:** the foot-pedal works only when the safety valve is closed; if it is open the foot-pedal is blocked. Consequently the machine can be disconnected without dangers granting the maximum safety. If the safety guard remains open, the machine is equipped with a safety valve that does not allow working operations.
- **Tools rack:** the machine is equipped with a practical and steady tools rack.

### INCLUDE:

- 1 Basic unit, 1226 Kg
- 2 Vice clamping jaw for absorber tube, O 40-60 mm



Safety valve



Practical and steady tools rack



Easy fixing for the brackets or vices



Auto Leveling System

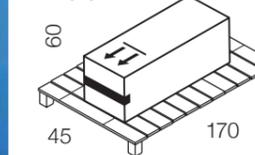


Aluminium cylinder

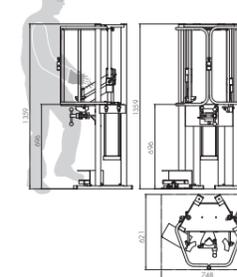


- Technical data**
- CE approved machine in compliance with 2006/42/CE (Machine Directive)
  - Working pressure: max 8 bar
  - Cylinder stroke: 330 mm

### Packaging



Dimensions



## ACCESSORIES

**Blocking Vice For Shock Absorbers**  
007935060310



**Adjustable Support For Upholding The Strut Of The Shock Absorber**  
007935060320



**Blocking Vice For Honda, Toyota (Chosen Models)**  
007935060650



**Bracket small**  
007935063790  
Application:  
from O78 to O130 mm  
up to 2.5 Ton



**Bracket medium**  
007935063800  
Application:  
from O105 to O182 mm  
up to 2.5 Ton



**Bracket large**  
007935063810  
Application:  
from O125 to O205 mm  
up to 2.5 Ton



**Bracket suitable for Mercedes-Benz**  
007935063820  
Application:  
Mercedes Benz: Class C  
starting from 2010



**Blocking Vice For Mercedes (Chosen Models S Class)**  
007935060660  
Application:  
Mercedes Benz:  
Class A, B, C, E



**Shock absorber spring locking tool**  
007935063830



### Universal kit for injector removal with slide hammer

007935063660

BOSCH  
DENSO  
SIEMENS

- Extractor for injectors for professional mechanics, car-repair garages or car repair shops.
- This operation may be carried out without disassembling the injector head.
- This kit allows injector removal with three distinct procedures:
  - 1 Using the pliers with holding arms perfectly fitting to the shape of the injector
  - 2 Using the articulated joint adapter and the pivot, that has to be screwed to the fitting of the Common Rail duct.
  - 3 Using the special socket that ensures the removal of the injector without removing the electrical connection plastic top, the injector remains hence intact and working after removal.

Includes 8 elements Weight: 4,99 kg



### Injector cleaning and milling tool set

007935063340

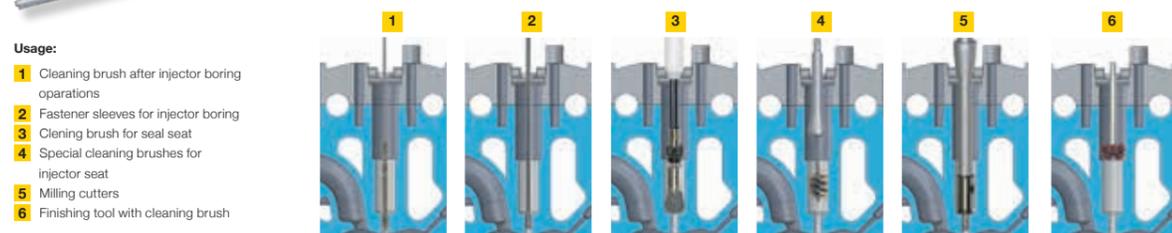
UNIVERSAL

- For cleaning and maintaining the injector shaft.
- Flawless removal of carbon deposits to create a spotless surface on the sealing ring in the cylinder head.
- Basic unit can be adapted to injector shaft; spring-assisted adjustment of contact pressure.
- Special carbide cleaning cutter.
- Precise centring.

Set contains a tool for removing the copper gasket



Includes 38 elements Weight: 5m4 kg



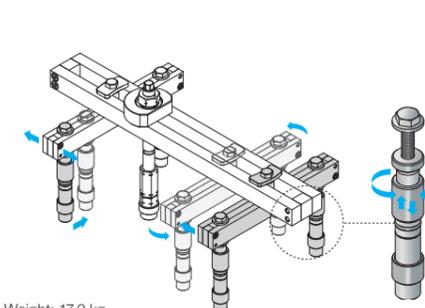
- Usage:
- 1 Cleaning brush after injector boring operations
  - 2 Fastener sleeves for injector boring
  - 3 Cleaning brush for seal seat
  - 4 Special cleaning brushes for injector seat
  - 5 Milling cutters
  - 6 Finishing tool with cleaning brush

### Injector removing master kit, universal

007935063670

BOSCH  
DELPHI  
DENSO  
SIEMENS

- Specific for disassembling very stuck injectors.
- Due to fouling caused by combustion the injector is locked and can not be removed without a proper tool.
- The universal supporting feet adjustment, on the fixing screws of the head, ensures its use in different levels (l/r) as well as the possibility to adjust the slippage of the two side bars.
- Upgrade option for hydraulic pump and hydraulic cylinder (or mechadraulic).
- Double action for connected injectors available for Mercedes Benz, Opel, Fiat, Suzuki.



Includes 38 elements Weight: 17,9 kg

### Mechadraulic cylinder

007935063680

+ 12 TON

- Technical data
- Dimensions: 80x55 mm
  - Stroke: 8 mm
  - Driving torque: 67Nm
  - Weight: 2.5 Kg
  - Hole: 21.5 mm
  - Working independent without pump

Includes 1 element Weight: 2,62 kg



### Hydraulic cylinder

007935063690

+ 12 TON

- Technical data
- Dimensions: 100x60 mm
  - Stroke: 8 mm
  - Pressure: 700 Bar
  - Weight: 3,04 kg
  - Hole: 33 mm
  - Coupling connection thread: 3/8" - 18 NPT

Includes 1 element Weight: 3,13 kg



### "Vibrofighter" injector vibration tool

007935063700

UNIVERSAL

- Excellent support tool set for tools used to remove commercial injectors.
- Your goal is to fully remove the injector from its housing without damaging the cylinder head and without breaking the injector, which would leave residues inside the head. Removes highly-seized injectors, due to coking and rust.
- When this tool is used, it acts directly on the removal tie rod, which is dynamically coupled with the injector, through vibrations and pulses

- Components:
- 1 x basic device with clamps support and setscrews
  - 1 x set of line stop clamps, 2 pieces
  - 1 x set of stop clamps at an angle, 2 pieces
  - 1 x set of setscrews, L = 115 mm, 2 pieces
  - 1 x pneumatic valve with control valve

Includes 7 elements Weight: 3 kg



## Universal drilling out and removal set for broken-off glow plug tips, M8x1 - M9x1 - M10x1 - M10x1.25

007935063710 **UNIVERSAL**

- This assortment allows quick and easy drilling out and removal of glow plug tips.
- The set contains tools for precise guidance over the original glow plug thread plus extra-long special drill bits and thread cutters for creating a mounting thread in the heater tube.
- Long pull rod and impact weight to enable the tip to be removed safely.
- Removal without damage to the glow plug seat and glow plug thread in the cylinder head.



Minimum outside diameter of electrode tip = 4,3  
Maximum diameter of internal hole = 3



**!** Drilling tips implemented and reinforced for new ceramic glow plugs

Includes 14 elements  
 Weight: 2,46 kg

**Applications:**  
• Strongly recommended for e.g. Citroen, Peugeot, Ford 1.4-1.6 Hdi  
• Stroke: 8 mm

**Technical data**  
• DLenght: 377 mm  
• Height: 87 mm  
• Width: 270 mm



## DSG clutch removal kit VW GROUP

007935063780

- For the correct removal and installation of DSG clutches on VAG.
- If the clutch is only to be installed and removed, no calibration is necessary.
- However, the clutch must be recalibrated when completely replacing the clutch pack.
- Full delivery includes all tools for removal and installation, and for recalibration of a new DSG gear clutch pack.

**VW GROUP**



**Application**  
Indispensable for dual-clutch automatic and electronic transmissions: - 08D (6 speeds) - 0AM (7 speeds). Can be adapted to clutches installed on cars of the VW Group from 2003 to today.  
**AUDI application**  
Models: A3

**SEAT application**  
Models: Altea, Altea XL, Ibiza, Leon, Toldeo  
**SKODA application**  
Models: Fabia, Octavia, Roomster, Superb, Yeti  
**VW application**  
Models: Golf, Golf Plus, Jetta, Passat, Polo, Scirocco, Touran

Includes 8 elements  
 Weight: 7,5 kg

- Components**
- 1 x support bridge for removing and installing the clutch housing
  - 1 x puller for clutch unit with bayonet fitting
  - 1 x end gauge for calibrating a new clutch pack, double-sided use
  - 1 x pressure piece for installing and positioning the clutch unit
  - 1 x lock ring pliers - removal of the retaining ring on the gear shaft

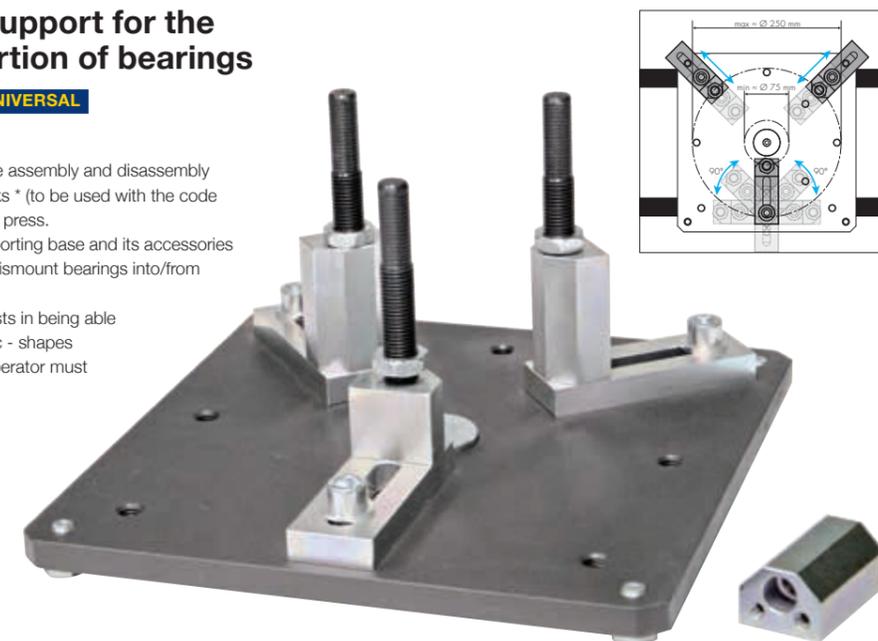


## Universal press support for the removal and insertion of bearings

007935063890 **UNIVERSAL**

- Universal system which allows the assembly and disassembly of hubs/bearings and - silentblocks \* (to be used with the code 322020000) by operating under a press.
- The tool set is made up of a supporting base and its accessories which allow the - user to mount/dismount bearings into/from their housing.
- This tool's universal feature consists in being able to adapt to the irregular geometric - shapes of hubs/king pins on which the operator must often intervene.

Includes 11 elements  
 Weight: 13 kg



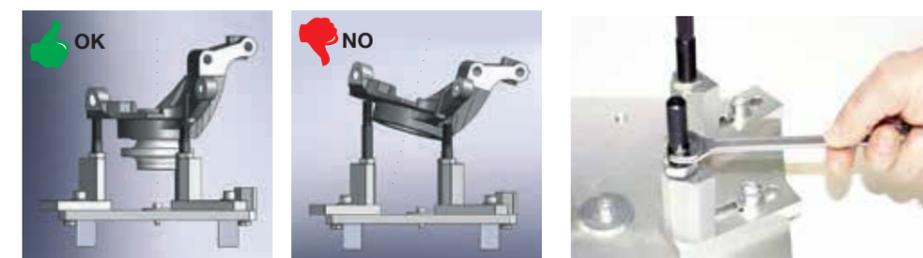
### \* Example of silentblock extraction



For silentblock extraction the kit is to be used with the code 322020000

**Technical data:**

- Dimensions: 300x300 mm
- Weight: 13 kg
- Max. load-bearing capacity: 20 t
- Working range: min. 130 mm - max. 186 mm



# Trolley with 206 tools MM-TT206

007935350000



Mobile service tool trolley by Magneti Marelli. There are 5 drawers in it; 3 of them are equipped with sets of tools made of chromium and vanadium (CrV) steel; the remaining 2 drawers can be adapted by the user.

Profiles made of double steel plate. Central locking and protection against opening more than one drawer. Cart top made of anti-skid mat. The cart is fitted with a set of tough.

## ELEMENTS OF SET

### Drawer 1



007935350400

- ▶ Ferrules: 8, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 mm
- ▶ Articulated grip - 15"
- ▶ Ratchet spanner
- ▶ Adapter: 1/2 "Fx 3/8" M
- ▶ Sparking plug attachment: 16 mm, 21 mm
- ▶ Extension 2x :5", 10"
- ▶ Cross connector



007935350500

- ▶ Set of socket wrenches of HEX type: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm
- ▶ Set of socket wrenches of TORKS type: 1.5, 2, 2.5, 3, 4, 5, 6, 8, 10 mm
- ▶ Screwdrivers: PH2x110mm, SLS.5-125mm



007935350600

- ▶ Length 30mm 0T20, T25, T30, T40, T45, TSO, T55, 0M5, M6, M10, M12mm, OHS, H6, H7, H8, H10, H12mm
- ▶ Length 75mm T20, T25, T30, T40, T45, TSO, T55, H5, H6, H7, H8, H10, H12mm, MS, M6, M10, M12mm
- ▶ Length 50mm PH 1, 2, 3 R O, 1, 2 T6, T7, T8, T9, T10, T15, T20, T25, T27, T30 H2, H2.5, H3, H4, H5 4, 6, 8 1, 2, 3 6, 8, 10
- ▶ Magnetic tip screwdriver 1 piece
- ▶ Bit Adapter x2 pieces: 1/2", 3/8" xH10

## ELEMENTS OF SET

### Drawer 2



007935350900

- ▶ Flat wrenches, box wrenches, bent spanners: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 32mm
- ▶ Torch LED



007935351200

- ▶ Ferrules 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14,
- ▶ Extensions 1x short 1x long
- ▶ Articulated joint
- ▶ Ratchet spanner
- ▶ Articulated grip
- ▶ Adjustable wheel type: T

### Drawer 3



007935351300

- ▶ Pincers 8"
- ▶ Long pliers 8"
- ▶ Cutting tongs 10"
- ▶ Slip-joint pliers 8"
- ▶ Pliers 8"



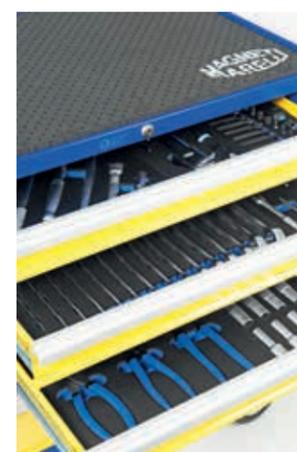
007935351500

- ▶ Long ferrules: 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23mm



007935351800

- ▶ Socket wrenches Torqs: T15x55, T20x55, T25x55, T27x55, T30x55, T40x55, T45x55, T50x55, T55x55, T60x55, T70x55mm
- ▶ Socket wrenches Hex: H4x55, H5x55, H6x55, H7x55, H8x55, H10x55, H12x55, 14x55, H17x55mm





## Magneti Marelli pneumatic impact wrenches

Impact wrench 1/2" with a two-way hammer mechanism and pressurized lubrication system. Wrenches are available in 680, 860 and 1360 Nm versions. To ensure smooth rotation and maximum power, air motors are equipped with high-quality bearings. The left/right rotation switch also has a speed control function.

**NEW**

## T-REX

007936331020



Sensational composite pneumatic impact wrench. Recommended both for car services, tyre services and private users. Good value for money, low weight and high reliability.

### Twin Hammer mechanism

- 2-step power regulation for right and left rotation
- Precise trigger - smooth speed regulation
- Well balanced center of gravity giving comfort of work
- Composite - aluminum body, only 1.9 kg

### Technical parameters:

- Drive with square end: 1/2"
- Max. torque: 1280 Nm
- Revolutions: 8000
- Weight 1,9 kg
- Working pressure: 6,3 bar
- Air supply connector 1/4" it the set



1/2"	1/4" 6,3mm
0.63 MPa	TWIN HAMMER TYPE
1280 Nm	COMPOSITE BODY
12,5 mm	1,9 kg



### IGUAN

007936331000

- Square-tip drive 1/2"
- Maximum torque: 680 Nm
- Air consumption: 0,11 m<sup>3</sup>/min
- Working pressure: 6,3 bar
- Air supply: 1/4"
- Weight: 2,0 kg



**NEW**



### Mini T-REX

007936331010

- Square-tip drive 1/2"
- Maximum torque: 860 Nm
- Air consumption: 0,13 m<sup>3</sup>/min
- Working pressure: 6,3 bar
- Air supply: 1/4"
- Weight: 2,0 kg



**NEW**



### Pneumatic wrench composite MM-150 1500 Nm

007936331050

- Drive with square end: 1/2"
- Screw size: 3/4"(19 mm)
- Number of rotations per minute: 8800 rpm
- Air intake: 1/4"
- Air consumption: 0,23 m<sup>3</sup>/min
- Working pressure: 6,3 bar
- Maximum torque: 1492Nm
- Weight: 2,7kg



### RAPTOR

007936331040

- Drive with square end: 1/2"
- Screw size: 1/2"(13 mm)
- Number of rotations per minute: 8500 rpm
- Air intake: 1/4"
- Air consumption: 0,11 m<sup>3</sup>/min
- Working pressure: 6,3 bar
- Maximum torque: 520 Nm
- Weight: 1,6 kg



### Set of pneumatic sockets for alloy rims size 21,19,17

007936331030



**NEW**



## MAMUT

007936331060

The MAMUT pneumatic impact wrench is an efficient and professional tool dedicated to work in professional tyre services workshops as well as at home. It is very well suitable for unscrewing and tightening all kinds of wheel bolts in various types of vehicles.

**NEW**



### Technical parameters:

- Maximum torque: 2600 Nm
- Average air consumption: 10 cf/min
- Drive with square end: 1"
- Maximum revolutions: 4000 rpm
- Air supply connector: 1/2"
- Rotation: right and left
- Weight: 12,5 kg

### Advantages:

- Powerful
- Efficient
- Solid aluminum construction
- Compact, ergonomic design

Square drive <b>1"</b>	Max torque <b>2600 Nm</b>	Air consumption <b>10 cfm</b>	<b>12,5 mm</b>
1-3/4" 45mm	Net weight <b>12,5 kg</b>	Free speed <b>4000 rpm</b>	ALUMINIUM BODY

## KIT DPI for maintenance and repair operations on hybrid and HEV vehicle

007936240000

**NEW**



The KIT includes the indispensable devices to operate safely, in compliance with the relevant standards, on Hybrid and Electric vehicles with working voltages up to a 1.000V a.c. and 1.500V d.c.

### Tools Bag:

- ▶ With shaped internal partitions and double shelf
- ▶ Central handle and side sockets
- ▶ 2 cover locking hooks and provision for padlock
- ▶ 3 hinges for cover opening
- ▶ Dimensions 68 x 40 x 33cm and weight of about 10kg complete with tools



Watch the movie on:  
**YouTube**

### KIT COMPOSITION



#### Compasses, ratchet and extension cord isolated

- ▶ Categories up to 1.000V in a.c. and 1.500V in d.c. IEC60900
- ▶ Chrome-vanadium steel, designed to support high torques with minimal wear, ensuring longer life
- ▶ PVC insulation, orange, with laser marking arancione, con marcatura al laser
- ▶ 10/11/12 / 13mm hexagonal bushes with 3/8"connection
- ▶ 190mm reversible ratchet with 3/8"connection
- ▶ 100mm insulated extension with 3/8"connection



#### Fixed spanner

- ▶ Categories up to 1.000V in a.c. and 1.500V in d.c. IEC60900
- ▶ Chrome-vanadium steel, designed to support high torques with minimal wear, ensuring longer life
- ▶ Orange PVC insulation with laser marking
- ▶ 10mm insulated spanner



#### Insulated pliers with bent spouts

- ▶ Categories up to 1.000V in a.c. and 1.500V in d.c. IEC60900
- ▶ Chrome-vanadium steel, designed to support high torques with minimal wear, ensuring longer life
- ▶ PVC insulation
- ▶ Pliers 200mm



#### Locker

- ▶ For disconnecting switch disconnecting the vehicles voltage battery
- ▶ Solid brass body, tempered and chromed steel arch, nickel-plated brass key
- ▶ Quick closing without inserting the key
- ▶ Keys with a paracentric profile



#### Dielectric protection helmet

- ▶ Compliance EN 397:1995 - EN 50365:2002
- ▶ ABS shell, extremely resistant, insulated up to 1.000V in a.c.
- ▶ Textile harness with 4 attachmentpoints
- ▶ Back adjustment with dot band, from 52 to 62cm
- ▶ Front anti-sweat band
- ▶ Weight 393g



#### Gloves

- ▶ DPI III di Class 0 (EN 60903:2003+AC2:2005)
- ▶ In thick natural rubber latex, 1,6mm
- ▶ Size 10 (360mm) yellow
- ▶ Working voltages up to 1.000V in a.c. and 1.500V in d.c.
- ▶ Suitable for Acid / Oil / Ozone / low temperature class RC
- ▶ Expirationless, just physical check



#### Insulating mat

- ▶ Certificate of conformity to the international standard IEC 61111 (1111) Class 3
- ▶ Test marking stamped
- ▶ Gray rubber with non-slip surfaces
- ▶ 1000 mm x 600 mm x 3 mm
- ▶ Maximum operating voltage 26.500V



### Chemical Products



**ADDITIVE FAP250 ML 20 PCS+PRESENTER MARELLI**  
 007950026116

DPF cleaner for diesel engines is commercial a product that is mixed with diesel, reduces sediment and carbon particles; Extends the life of the FAP / DPF filter by keeping it clean and effective over time.



**ADDITIVE LPG 250 ML 12 PCS+PRESENTER MARELLI**  
 007950026111

The LPG fuel additive is supplied with a special pressure vessel with a connecting pipe. The use of this liquid keeps the system in cleanliness, prolongs the service life of the gaskets, keeps the valve seats and injectors clean. Important benefits: Acceleration, emission reduction, fuel economy and engine durability. Only for GPL installation.



**ADDITIVE DIESEL 250 ML 20 PCS+PRESENTER MARELLI**  
 007950026106

Multifunctional gasoline additive is a new generation professional product for cleaning and protecting propulsion systems for diesel-powered vehicles. Significant benefits: reduces fuel consumption, reduces emissions, improves engine performance, facilitates and improves cold cuts, facilitates fuel combustion, compresses compressors, improves performance and reduces noise.



**DPF FLUSH GUN FOR DPF/FAP**  
 007950026130

DPF flush gun for use with the DPF / FAP cleaning system consists of 3 components: FAP dispenser, rinsing fluid and container. The combined effect of these two agents cleans the dense particle filter and allows cleaning without dismantling. Cleaning the FAP / DPF Filter is recommended for any system specially designed for vehicles that usually make short runs. That way the filter is kept in good condition as it prevents clogging, prolonging its life.



**DPF RINSE 5 LT**  
 007935019080



**DPF FLUSH 5 LT**  
 007935019070

## Professional workshop lamps

**Head lamp 130 lum.  
Batteries SMD Led**  
007935030180

NEW



- ▶ SMD LED provides 65 or 130 lumens
- ▶ Two brightness settings
- ▶ Touchless switching on and off the lamp
- ▶ Adjustable and removable headband
- ▶ Power: 3 x AAA battery
- ▶ Dust and water resistant (IP54)

**Head lamp 250 lum.  
Rechargeable battery COB Led**  
007935030190

NEW



- ▶ COB LED provides 80 or 250 lumens
- ▶ Two brightness settings.
- ▶ Touchless switching on and off the lamp
- ▶ Adjustable and removable headband
- ▶ Power supply: 3.8V 1600mAh Li-Pol battery
- ▶ Working time 2.5h / 6h
- ▶ Dust and water resistant (IP54)



NEW

**Head lamp and flashlight -  
Rechargeable battery 100/50  
Lumens SMD Led**  
007935030210**Head lamp**

- ▶ COB LED provides 80 or 250 lumens
- ▶ Two brightness settings
- ▶ Touchless switching on and off the lamp
- ▶ Adjustable and removable headband
- ▶ Power supply: 3.8V 1600mAh Li-Pol battery
- ▶ Working time 2.5h / 6h
- ▶ Dust and water resistant (IP54)

**A flashlight**

- ▶ The LED provides 60 or 120 lumens
- ▶ Two brightness settings
- ▶ Range of light beam > 90 M
- ▶ Power supply: 3.7V 1000mAh Li-ion rechargeable battery
- ▶ 2,5H / 5H working time
- ▶ Dust and water resistant (IP54)

**Head lamp and flashlight -  
Rechargeable battery 130/65  
Lumens SMD Led**  
007935030200**Head lamp**

- ▶ SMD LED provides 65 or 130 lumens
- ▶ Two brightness settings
- ▶ Touchless switching the lamp on and off
- ▶ Adjustable and removable headband
- ▶ Power: 3 x AAA battery.
- ▶ Dust and water resistant (IP54)

**A flashlight**

- ▶ The LED provides 50 or 100 lumens
- ▶ Two brightness settings
- ▶ Range of light beam > 75 M
- ▶ Power: 3 x AAA battery.
- ▶ Dust and water resistant (IP54)

**Car adaptor**  
007935030120

Car USB charger

## Professional workshop lamps

**3W+UV  
Swivel Light COB**  
007935030020

- ▶ 3W COBED fronts provide >240 lumens
- ▶ Top UV LED, 395~410um
- ▶ Rotation function 120 degrees
- ▶ Magnet at the bottom of the handle
- ▶ Hooks on the bottom / top of the handle
- ▶ Charging socket with level indicator
- ▶ 2-3 hours of work
- ▶ 3-4 hours of charging
- ▶ 5V 1A CE adapter with mini-USB cable

**3W+3W  
Swivel Light COB**  
007935030030

- ▶ 3W COBED FRONT provide 240 lumens
- ▶ Upper LED with UV 395 ~ 410um
- ▶ The rotation function is 120 degrees
- ▶ Magnet in the bottom of the handle
- ▶ Hooks on the bottom / top of the handle
- ▶ Charging socket with level indicator
- ▶ 2-3 hours of work
- ▶ 3-4 hours of charging
- ▶ 5V 1A CE adapter with mini-USB cable

**Straight lamp top + front 300 lumens 3W**  
007935030150

- ▶ 3W front COB LED provides 50 lumens
- ▶ 3W upper SMD LED provides up to 300 lumens
- ▶ A two-range choice of 150 or 300 lumens
- ▶ Two swivel hooks integrated with magnets
- ▶ Detachable hooks
- ▶ Charging time: 3-4h
- ▶ Operation time: 3-6h
- ▶ Charging port

**Underhood cordless lamp 2000 lumens 18W**  
007935030170

- ▶ 18W SMD LED provide up to 2000 lumen
- ▶ Two-range lighting power selection provides 1000 or 2000 lumen
- ▶ ABS injection moulded grip with shock-resistant protection
- ▶ Aluminium alloy hook with PVC cover, soft hook covers prevent scratching the vehicle body
- ▶ 47" to 75" adjustable bar; easy mounting to most trucks and SUVs
- ▶ Finger hooks (360°) for safe and firm mounting
- ▶ Charging time: 3,5-4h
- ▶ Operation time: 1,5-3h
- ▶ Charging port
- ▶ Hook made of aluminum alloy with PVC cover
- ▶ The soft shell of the hook prevents scratching of the vehicle body
- ▶ Easy mounting to most trucks and SUVs
- ▶ The ratchet hooks (360°) provide safe and rigid mounting

**15W SMD  
Corded Underhood Light**  
007935030070

- ▶ Brightness in a given area 450-550 Lm at half power, 900-1150 Lm at full power
- ▶ The brightness control button allows choice of half or full power
- ▶ Handle with ABS with sprayformed and anti-collision protection
- ▶ Ergonomic design ensures convenient operation
- ▶ Hook made of aluminum alloy with PVC cover
- ▶ The soft shell of the hook prevents scratching of the vehicle body
- ▶ Adjustable rod in the range of 47 "to 75"
- ▶ Easy to attach to most trucks and SUVs
- ▶ The ratchet hooks (360°) provide safe and rigid mounting

Professional workshop lamps



**2.5W Folding Light**  
007935030040

- ▶ 2,5 W COB LED provides >150 Lm
- ▶ Foldable handle rotated 180°, with magnet
- ▶ Retractable and rotatable clamp/hook rotated 360°
- ▶ 3-3,5 hours of continuous work
- ▶ 2,5-3 hours of charging
- ▶ Adapter 5V 1A CE with mini-USB cable
- ▶ Degree of protection IP 45



**Penlight wit zoom 250 lumens 3W**  
007935030160

- ▶ 3W LED high power
- ▶ Metal durable cover
- ▶ Water and dust resistant (IP54)
- ▶ Lighting power option: 140 or 250 lumen
- ▶ Possibility to change light focal length
- ▶ Charging port incl. mini-USB
- ▶ Charging time 3-4h
- ▶ 2,5-5 hours of work



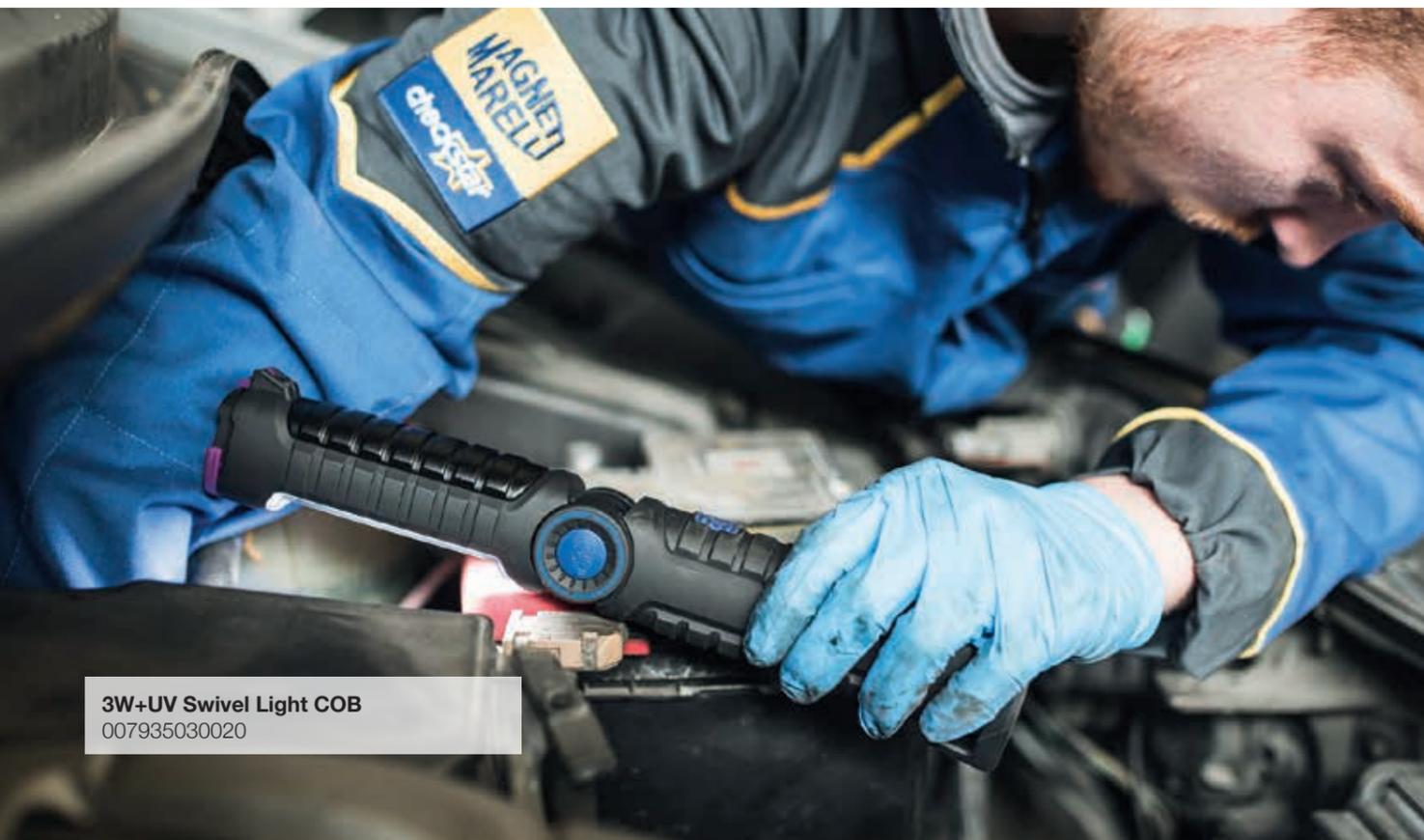
**Mini 3W+3W Swivel Light COB**  
007935030140

- ▶ 3W front COBLED provide >240 lumens
- ▶ 3W top SMD LED provide >160 lumens
- ▶ Rotation function 120 degrees
- ▶ Magnet in the bottom part of a handle
- ▶ Hooks "nest" type in the lower/upper part of the holder
- ▶ Charging socket with indicator level
- ▶ 2-3 hours of work
- ▶ 3-4 hours of charging
- ▶ Adapter 5V 1A CE with mini-USB cable



**Mini 3W+UV Swivel Light COB**  
007935030130

- ▶ 3W front COBLED provide >240 lumens
- ▶ 3W top SMD LED provide >160 lumens
- ▶ Rotation function o 120 degrees
- ▶ Magnet at the bottom parts of the handle
- ▶ Hooks "nest" type in lower / upper part of the holder
- ▶ Charging socket with indicator level
- ▶ 2-3 hours of work
- ▶ 3-4 hours of charging
- ▶ Adapter 5V 1A CE with mini-USB cable



**3W+UV Swivel Light COB**  
007935030020



Health and safety articles



**Nitrile Gloves M 100 Pieces**

- ▶ 099700120060 - Size M
- ▶ 099700120070 - Size L
- ▶ 099700120080 - Size XL

Gloves made of nitrile monoblock with non-slip finish; pre-cut cardboard box allows an easy access to products.



**Liquid paste for washing hand professional with pump 4,5L**

- ▶ 099996001204 - 4,5 L

Liquid paste for washing hands 4.4 l with a pump contains glycerine to soften the skin purifies your hands leaving a delicate scent.



**Professional hand wash soap (1L)**

- ▶ 099996001010 - 1 litr

Liquid in the form of detergent of high degreasing level. Indigestible hand soap recommended for use in workshops.

Gloves resistant to chemicals and oils



**Paste for washing hand**

- ▶ 099996001000 - 1 L
- ▶ 099996001005 - 4 L

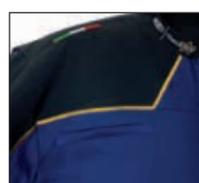
Contains glycerin to soften the skin Cleanses the hands leaving a delicate scent. Do not clog the drain hoses. Does not contain sand.



## Overall



MM CODE	SPECIFICATION	SIZE
099720160001	Overall	S
099720160002	Overall	M
099720160003	Overall	L
099720160004	Overall	XL
099720160005	Overall	XXL
F099720160006	Overall	XXXL



## Trousers with shoulder straps



MM CODE	SPECIFICATION	SIZE
099720160013	Trousers with shoulder straps	S
099720160014	Trousers with shoulder straps	M
099720160015	Trousers with shoulder straps	L
099720160016	Trousers with shoulder straps	XL
099720160017	Trousers with shoulder straps	XXL
099720160018	Trousers with shoulder straps	XXXL



## Trousers



MM CODE	SPECIFICATION	SIZE
099720160025	Trousers	S
099720160026	Trousers	M
099720160027	Trousers	L
099720160028	Trousers	XL
099720160029	Trousers	XXL
099720160030	Trousers	XXXL



## Working apron



MM CODE	SPECIFICATION	SIZE
099720160031	Working apron	S
099720160032	Working apron	M
099720160033	Working apron	L
099720160034	Working apron	XL
099720160035	Working apron	XXL
099720160036	Working apron	XXXL



## Vest

MM CODE	SPECIFICATION	SIZE
099720160037	Vest	S
099720160038	Vest	M
099720160039	Vest	L
099720160040	Vest	XL
099720160041	Vest	XXL
099720160042	Vest	XXXL



- ▶ Softshell fabric
- ▶ Hydrophobic layers



## Waistcoat

MM CODE	SPECIFICATION	SIZE
099110901010	Waistcoat	S
099110902010	Waistcoat	M
099110903010	Waistcoat	L
099110904010	Waistcoat	XL
099110905010	Waistcoat	XXL



## Polo

MM CODE	SPECIFICATION	SIZE
099110601010	Polo	S
099110602010	Polo	M
099110603010	Polo	L
099110604010	Polo	XL
099110605010	Polo	XXL



## Polo

MM CODE	SPECIFICATION	SIZE
099720160055	Polo	S
099720160056	Polo	M
099720160057	Polo	L
099720160058	Polo	XL
099720160059	Polo	XXL
099720160060	Polo	XXXL



- ▶ 100% Cotton



## T-Shirt

MM CODE	SPECIFICATION	SIZE
099720160061	T-shirt	S
099720160062	T-shirt	M
099720160063	T-shirt	L
099720160064	T-shirt	XL
099720160065	T-shirt	XXL
099720160066	T-shirt	XXXL



- ▶ 100% Cotton



## Blouse

MM CODE	SPECIFICATION	SIZE
099720160049	Blouse	S
099720160050	Blouse	M
099720160051	Blouse	L
099720160052	Blouse	XL
099720160053	Blouse	XXL
099720160054	Blouse	XXXL



- ▶ 100% Cotton
- ▶ Embroidered logo



## Blouse

MM CODE	SPECIFICATION	SIZE
099110701010	Blouse	S
099110702010	Blouse	M
099110703010	Blouse	L
099110704010	Blouse	XL
099110705010	Blouse	XXL



## Softshell Jacket

MM CODE	SPECIFICATION	SIZE
099720160043	Softshell jacket	S
099720160044	Softshell jacket	M
099720160045	Softshell jacket	L
099720160046	Softshell jacket	XL
099720160047	Softshell jacket	XXL
099720160048	Softshell jacket	XXXL



- ▶ Softshell fabric
- ▶ Hydrophobic layers
- ▶ Breathable membranes
- ▶ Internal fleece



## Jacket

MM CODE	SPECIFICATION	SIZE
099110801010	Jacket	S
099110802010	Jacket	M
099110803010	Jacket	L
099110804010	Jacket	XL
099110805010	Jacket	XXL



## Workshop shoes with hard tip



MM CODE	SIZE
099300003710	37
099300003810	38
099300003910	39
099300003910	40
099300004110	41
099300004210	42
099300004310	43
099300004410	44
099300004510	45
099300004610	46



- ▶ No metal parts S1P SRC Protection (EN ISO 20345: 2011)
- ▶ Weight: less than 580g to n. 42
- ▶ Reinforced toes and sole - Composite toe part, impact resistant 200 J and pressure up to 15kN (about 1.5t)
- ▶ Perforated ballistic fabric insert
- ▶ Slip system - safe walking in humid environment with the presence of oil or slippery substances
- ▶ Antistatic

## High working shoes with a hard tip



MM CODE	SIZE
099310003710	37
099310003810	38
099310003910	39
099310004010	40
099310004110	41
099310004210	42
099310004310	43
099310004410	44
099310004510	45
099310004610	46
099310004710	47
099310004810	48



- ▶ No metal parts S1P SRC Protection (EN ISO 20345: 2011)
- ▶ Reinforced toes and sole - composite backing, impact resistant of 200 J and pressure up to 15kN (about 1.5t)
- ▶ Perforated ballistic fabric insert
- ▶ Perforated ballistic fabric insert
- ▶ Slip system - safe moving in a humid environment with the presence of oil or slippery substances
- ▶ Antistatic

## Case

MM CODE
099110906000



## Bag

MM CODE
099110907000



## Backpack

MM CODE
099720160000



# Ozon Maker Ozonator MX-4000

MAGNETI  
MARELLI

The highest confirmed efficiency  
of ozone years of experience!

[www.wyposazeniemm.pl](http://www.wyposazeniemm.pl)



1000  
mg/h

4000  
mg/h

## Ozon-Maker - ozone generating device

The device, by ionizing the air, produces unstable allotropes of oxygen, i.e. ozone O<sub>3</sub>. 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 Ozon Maker devices. Ozone (O<sub>3</sub>) 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 decom - poses 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 SPECIFICATIONS AND OPERATING CONDITIONS:

- 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: 1 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.

## Ozonator MX4000 - ozone generating device

M-MX4000 ozone generatorThe M-MX4000 ozone generator is intended for COMMERCIAL AND INDUSTRIAL USE. The machine operates on single-phase AC voltage of  $U_n = 230$  V at 50 Hz. This machine generates ozone. Ozone is one of the most effective known disinfectants. Ozone displays bactericidal action at a concentration of  $13 \mu\text{g}/\text{dm}^3$ . The bactericidal action of ozone is about 50 times better and 3000 faster than of chlorine. Ozone is an irritant gas which damages biological membranes by free radical reactions with the membrane components. Once in living cells, ozone may inhibit the action of cellular enzymes and arrest intracellular respiration. The first symptoms of ozone irritation (observable already at  $0.2 \mu\text{g}/\text{dm}^3$ ) include: coughing, sore throat, drowsiness and headache. Ozone's half-life is (practically) short: 30 minutes; hence its primary concentration falls to approx. 6% in two hours.

### TECHNICAL SPECIFICATIONS AND OPERATING CONDITIONS:

- Model: M-MX4000
- Ozone generator output: 4000 mg/h
- Internal pump output: 10-15 l/min
- Programmable time counter: 1-60 min
- Pump pressure output: 17 kPa
- Operating conditions: use inside well-ventilated rooms without any corrosive gases in the ambient air
- Ambient pressure:  $100 \pm 4$  kPa
- Ambient temperature range: 5-40°C
- Relative ambient humidity:  $\leq 80\%$
- Ozone generation process: coronary discharge
- Output line diameter: 8 mm
- Power supply: AC, 220-240 V 50 Hz.

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