



TESTING
BEYOND

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TESTING BEYOND



Leading Technology

To be and to remain advanced in technology, Motoplat develops all software on the testers ourselves.



Reliability

We are committed to providing the most reliable and comprehensive testers and therefore we have tailored our products to meet customers' needs.



Quality

Each and every tester is of premium European quality and complies with the European regulations.



Service

Our quality standards apply also in terms of service, technical expertise and advice.

The **Motoplat** brand stands for **high quality test equipment.**

Still keeping in mind their reliability, sturdy look and simplicity, but now with the highest possible technology inside, we developed new CV test benches.

Also we developed several small testers that are an addition to your current tester. This means you can now test modern 'COM' alternators using your old testing device.

To complete our range, we also have several parts testers.

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VC-014DS

Stator and Rectifier Tester

The Motoplat VC-014DS parts tester combines two devices: a stator winding tester and a rectifier tester.

Once the stator is connected, the VC-014DS only take a few seconds to identify the phase connections and then checks the windings for any short circuits or connection failures.

The rectifier test includes checking the circuit connections and measuring their operability.

All the above mentioned data and results will appear on a LCD touch screen.

This small and light weighted tester was developed according to the requirements of service stations and works without any additional testing or measuring devises.



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VC-203D

Armature Tester

The Motoplat VC-203D armature tester is a sturdy and easy to use device with a 220v single phase voltage supply.

To test the core of the armature, you simply place it on the V-block, rest the supplied metal strip on the core and slowly turn the armature around its axis. Possible short circuits are identified by small vibrations of the metal strip. The faulty collectors are located where the armature slot and the metal strip meet

Detecting possible short circuits between the commutator segments of the direct current armature can be done with the supplied test prods. Simply rest the two prods on two adjoining commutator segments and slowly turn the armature around its axis. The ammeter shows if there are any problems with the armature.

VC-212RT

Regulator Tester

The VC-212RT tester allows you to diagnose the operational performance of a 12 and 24 volt alternator regulator.

VC-212RT regulator tester is a very useful and easy to use device, used by car garages, diagnostic stations, authorised service stations and rebuilders.

This small and light weighted tester was developed according to the requirements of service stations and works without any additional testing or measuring devises.

- Supports all control interfaces for modern voltage regulator such as LIN/BSS and PWM
- Automatic detection of a regulator load control of type, A or B.
- Checks the operational performance of a channel for monitoring the regulator.
- Simulates two outputs from alternator stator phases.
- Simulates overvoltage and alternator shutdown mode.
- Short circuit protection.
- Following a set period of inactivity of the FLD inputs, the device will be switched off automatically.



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VC-15W

The VC-15 handheld alternator tester is a very useful and easy to use device, used by car garages, diagnostic stations, authorized service stations and rebuilders.

The testers come with cables and connections for several modern alternators and are affordable for all ranges in the automotive industry.

The Motoplat VC-15W alternator tester can be used directly on the car, but also in combination with a conventional tester. Also this tester will automatically start to identify the alternator's control system.

VC-3.1

The VC-3.1 is a sturdy looking handheld tester and analyzer that can stand rough handling. Combining all functions and possibilities of our other handheld testers, the VC-3.1 is unique in its kind.

Improvements

The VC-3.1 is the first in our range of handheld testers, equipped with a full color screen and a complete new button pad. These major upgrades improve user comfort and the efficiency of testing. The button pad makes it much easier to scroll through the testing modes and during the test, to select the control capabilities (e.g., the voltage).

Protective frame

With metal housing and rubber ends, the VC-3.1 is better protected and can withstand a collision. This makes the tester particularly suitable to be used at production facilities, warranty departments and repair shops.

On-car testing

Disassemble an alternator from the car is often a radical and time consuming job, for which it is not uncommon that other car parts needs to be disassembled too. The VC-3.1 handheld tester makes it possible to test and analyze the alternator when it is still mounted, by connecting it in series circuit between the alternator and ECU.

Conventional test equipment

The VC-3.1 can also be used in combination with a conventional test bench, which upgrade it to a modern test device with more capabilities to meet requirements of testing COM alternators.

Protocol analyzer

The VC-3.1 is not only a test device, but can also identify the 30 regulator protocols and over 200 ID codes within seconds, using API+ technology (Automatic Protocol Identification). Since the VC-3.1 is equipped with its own power supply, analyzing regulators can be done right on the spot.



VC-07USB ALTERNATOR TESTER

The Motoplat VC-07 USB tester is an addition to your current test equipment, that allows you to check and test the alternators that are fitted on the latest cars, such as: BMW, Mercedes Benz, Volkswagen and Audi.

The VC-07 USB alternator tester only takes a few seconds to automatically identify the COM type regulator used on the alternator that needs to be tested and now display them in 30 different protocols, together with its ID code. There is even the possibility to identify the type of regulator without the alternator itself.

While the tester is checking the PWM and PD controlled alternators, the monitor will also display information about the DFM signal.

Initial setting of the VC-07 USB voltage is 14.5V, but it can be changed by pressing the buttons

'15.5V', '13.5V', '12.5V' or the 'OFF' button.

The DFM signal is displayed in percentage (%), which allows you to evaluate the performance during charging at a specific moment.

An additional function of the VC-07 USB alternator tester is a Voltage Meter.

The VC-07 alternator tester is equipped with a USB connection and come with its own software, which can be installed on your PC or Laptop.

VC-19 ALTERNATOR TESTER

The VC-19 is specially designed to perfectly fit in the conventional Motoplat CV-21 and Bosch KPS-type test benches and is equipped with the same features as the VC-07 USB.



VC-09ST ALTERNATOR TESTER

The Motoplat VC-09ST is the world's first aftermarket tester/calibrator for Valeo ST-series alternators. These are start/stop reversible alternators which also have the function of charging the battery and starting the engine.

Till now, there is only one known instrument that can diagnose and test the Valeo ST35 series reversible alternators: The VC-09ST bench top tester, developed and produced by MOTOPLAT.

The VC-09ST calibrates the electronics signals to the control box in connection with the ECU for a reliable and fast start. The VC-09ST tests all of the functions of the alternator, like the parameters.

Depending on the rotor position, the phase switching control system requires, that after such an alternator is repaired, the Hall sensors should be properly positioned. Otherwise, the generator won't have enough power to rotate the crankshaft. On the screen of the tester, you can check whether their position is correct or not. On the screen will appear an

oscilloscope graph of the signal received from the Hall sensor (the rectangular wave) and the one of the phases. The correctness of the Hall sensor's position is displayed on the basis of points where both waves intersect each other.

If we deal with an alternating current reversible generator, it will be 100% efficient as an alternator. For example an alternating current generator and at the same time its Hall sensors are correctly positioned, it will be 100% efficient as an alternating current motor, for example in this case, a starter.



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CV-307A

The CV-307A is a small, easy to use test bench, which has all of the modern functionalities like the CV-615A. It is equipped with a 5,5KW 380V 3 phase motor and its maximum load is 300amps.

The CV-307A is equipped with the latest testing technology for the modern workshop or production facility, such as API+ technology which automatically identifies COM protocols within 2 seconds. These 30 protocols are displayed together with their ID codes, which makes development in remanufacturing easier, cheaper and more clear.



FEATURES

options

- Sturdy frame meant to last
- For workshops and warranty departments
- 380V 3 Phase
- 12/24volt testing
- 300A (12Volt)/150A (24Volt)
- 7,5KW motor (10HP)
- @12V 4x32A/3x45A/45x1Amp resistors
- Leakage test up to 250mA
- Ripple measurement in Amps and %
- Alternator Efficiency in %
- Motor torque test in NM
- Motor power in KW
- Voltmeter accuracy 0,1 volt accuracy
- Amp meter 0,25% accuracy
- 2-way pneumatic tensioning
- (V) belt drive
- Extensive manual testing features
- Bright colored displays
- Step less rpm control
- Step by step load control up to 300amps
- API+ high speed automatic protocol identification (30 protocols with over 200 regulator ID's)
- Tests 24V LIN!
- Extensive regulator control
- Displays regulator errors
- Shows unique regulator ID codes
- Shows communication speed in Baud rate
- Tests all PWM controlled alternators even 24 Volt
- In depth DFM testing
- Auto testing capabilities + wizard learning mode
- Preset Database (can be adapted by customer)
- Auto test plug harnesses
- Manual select knob for auto/manual testing modes
- Small high-end computer (windows 10) and wide screen monitor included.
- New developed software layout (can be adapted in any way)
- Auto test function even without computer
- Software is Windows 10 compatible
- LaserJet printer
- Extensive report printing with performance curve
- Sturdy mounting accessories and plugs included
- Reliable tester and ready for the future and can be updated easily
- Fast service and support



- Metal cabinet
- Built-in small high-end computer (windows 10)and wide touch screen monitor.
- LaserJet printer
- Extensive report printing with performance curve in any language
- Connectivity between tester and internet for fast support and quick problem solving



CV-623A

Motoplat has developed a brand new test bench for 2019 other than anything out there today. The new CV-623 brings all testing aspects into one testbench: advanced alternator testing, starter testing and regulator testing.

New PLC controlled tester in combination with C++, Scada and SQL software platforms will ensure reliable testing and easy servicing capabilities all over the world.

This is the most competitive alternative for any other test bench brand out there on the market today. It easily identifies over 30 LIN and 3 BSS protocols together with over 200 ID codes and in-depth transmission data.

Main Features:

- Sturdy frame meant to last
- Production/end-of-line tester (Optional)
- Standard alternator, starter and regulator tester in 1
- 380V 3 Phase
- Motor:22kW
- Motor drive: 22kW
- Resistors: 600A @ 12V, 400A @ 24V (linear with 0-50A PWM)
- Future options can easily be upgraded for 48V (unique resistor box design)
- Test-bench controlled by Siemens PLC Siematic S7
- High-end custom-made alternator control unit
- Manual select knob for auto/manual testing modes
- Belt drive
- High-end Safety cover with pneumatic fastening (Option)
- Filtration in bottom part against dust (Option)
- Extensive manual and automatic testing features
- Dual pneumatic tensioning system

Computer

- PC built-in Intel NUC
- Professional PC software in any language
- New 2019 developed software layout

- Heavy duty PC touch screen
- Heavy duty membrane keyboard
- Heavy duty touchscreen dedicated for Siemens PLC
- SCADA language
- SQL database
- Motoplat software is Windows 7, 8, 8.1 and 10 compatible
- APC battery built in for computer stability and reliability
- Full customizable test procedure
- LaserJet printer or label printer(option)
- Extensive report printing with performance curve in any language!
- Internal router for updating, service, maintenance
- Calibration through internet

Testing Capabilities

- API+ high speed automatic protocol identification (30 protocols with over 200 regulator ID's)
- Tests 24V LIN and DFM!
- Displays all regulator errors
- Shows unique regulator ID codes over 200codes
- Tests starting mode BSG's
- Ready for 48V BSG units
- Ford RVC testing
- Shows communication speed in Baud rate
- 3 VSP/RPM measurements for regulator



- reliability
- W terminal testing Hz@RPM
- Tests all PWM controlled alternators even 24 Volt
- In depth DFM testing V/Hz/PWM % @ high and low load
- Leakage test up to 250mA
- Ripple measurement in Amps and %
- Alternator Efficiency in %

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- Alternator torque check in NM
- Checks alternator power in KW
- Voltmeter accuracy 0,1-volt accuracy
- Amp meter 0,25% accuracy
- External regulators for 12v and 24v built-in
- Regulator tester built-in
- Starter testing IST type units testing as „starter“
- Advanced auto testing capabilities
- Wizard learning mode for database building -> comparison testing
- Step less or computer-controlled rpm adjusting
- Step by step load control up to 600Amps
- Oscilloscope built-in software
- Preset Database (can be adapted by customer)
- Endurance Test(option)

Accessories and others

- Sturdy mounting accessories for normal and pad mount
- Pre-connected harnesses and plugssets included
- Belts included
- Reliable tester and ready for the future and can be updated easily by internet
- Easy servicing because of interchangeability of PCB's
- Connectivity between tester and internet for fast support -> quick problem solving
- Fast service and (online)support
- Battery chargers built-in

Coming soon

CV-623P

By shifting the standard CV-623A 90 degrees we have created a user-friendly side mounting tester. Still keeping the main components of the tester the same but smaller to fit more efficiently in a production line. The CV-623P is capable of achieving a 22second cycle time in a production environments.

- Production/end-of-line tester side mounted
- High-end Safety cover (Plexiglas in aluminum frame with pneumatic lock)
- Alternators only
- 380V 3 Phase
- Motor/motordrive:22kW
- Achievable cycle time per unit 22sec.
- Endurance Test (option)

OTHER



Plugs

Alternator plugs

Motoplat has a stock of various connectors for the most common car alternators. These connectors can easily replace the old and broken ones to get the alternator operating again.



VP-028

Pulley Removal Set

With the Motoplat pulley removal set, welded pulleys of the Valeo ST-Series alternators can easily be disassembled.



Spare Parts

Old and New Testers

For both old and new types of Motoplat testers, we have a stock of various spare parts. Please contact us for the availability.

Contact Information

MOTOPLAT CV



Stichtse Kade 47c
1244NV 's-Graveland, The Netherlands



+ 31 (0)35 656 8503



info@motoplat.nl

www.motoplat.nl

