



System 7359799DC



Advantage over original system:

Generator / electronic ignition for OSSA Stiletto MX,TT, rotor weight 1400gr/49oz, fastening nut M14x1.5RH

- Magnet based generator with integrated solid state ignition, Light output 12V/180W DC. Ignition with own power supply from within the system. Replaces original Magneto as well as all ignition parts. Does not require changes on crankcase.

- Rotor weight: 1.4kg / 49oz check direction of rotor nut threading! This system is for right hand threaded nut.

- not for phantom cover, not for 4speed cover

- all parts are new
- solid state ignition
- more light output (with light bulb 40/45W)
- very stable ignition with solid spark
- better starting, better fuel burning
- no wear anymore on collector, govenor and points







Assembly instructions for Bultaco Systems 7841799DC, 7347799DC, 7359799DC, 7842799DC, 7843799DC, 7386799DC

05.02.2024



- The main difference between those systems is the weight of the rotor and the sense of threading of rotor fastening nut in some cases

- If you can install and time a stock ignition and possess basic mechanical skills, you can install a VAPE! If you never have worked on your ignition, better have it done by someone who knows.

- VAPE can not monitor the compliance to those instructions, nor the conditions and methods of installation, operation, usage and maintenance of the system. Improper installation may result in damage to property and possibly even bodily injury. Therefore we assume no responsibility for loss, damage or cost which result from, or are in any way related to, incorrect installation, improper operation, or incorrect use and maintenance. We reserve the right to make changes to the product, technical data or assembly and operating instructions without prior notice

IMPORTANT

- Please read these instructions fully and carefully before starting work on your motorcycle Please bear in mind that any modification of the material as well as own repair attempts which have not been agreed with VAPE may result in a loss of warranty. Do not cut off wires. This leads to a loss of reverse polarity protection and often results in damage to electronics. Also, please take note of the information provided on the information page for this system. Check that what you have bought really corresponds to the motorcycle you have. Wrong ignition settings may damage your engine and even hurt you during kickstart (violent kickbacks). Be careful during the first test runs. If needed change settings to safer values (less advance). During assembly check carefully that the rotor (flywheel) does not touch the stator coils or anything else, which may happen due to various circumstances and lead to severe damage.

Designated use

- This system is designated to replace stock dynamo/alternator & ignition systems in vintage and classic motorcycles **whose engine characteristics have not been modified aftermarket**. This system is not a tuning system and it will not bring significant increases in engine output. It does however significantly enhance roadworthiness and comfort by offering better lighting, better function of side indicators and horn and, compared with the aging stock systems, increased reliability. As our system does not tamper with engine characteristics it does not increase emission of gaseous pollutants and noise. In most cases emission of pollutants should even be reduced due to better combustion. If used as designated the system therefore will not normally infringe the existing legal status of the motorcycle. (Please check your local legal regulations!) This system is not suitable for use in competition events. If used other than the designated way, your warranty will be voided and it might well be that you do not obtain the desired results or, worst you loose legal roadworthiness.



- VAPE guarantees homologated products marked with the "E" mark in the ring (E8 specifically for the Czech Republic), thereby ensuring a consistent conformity of the product properties with the relevant ECE homologation regulations (especially ECE R10.05). Inspection is regularly carried out by the competent authority.

- The charging system is only suitable for use with rechargable 12V (6V systems 6V) leadacid batteries with liquide electrolyte or sealed lead-acid batteries, AGM, Gel. It is not suitable for use with nickel-cadmium, nickel-metal-hydride, lithium-ion or any other types of recharchable or non rechargable batteries.

- This is a **replacement system and not a copy of the stock material**. The parts in this system therefore look different and might fit differently (notably ignition coil and regulator) requiring some adaptation by you.



- During assembly imperatively start with assy of engine based parts to see that those really fit before you start fitting the external parts. In many cases customers assemble those first and thereby often modify them in breach of warranty which renders them unfit for renewed sale. Replacing old ignition systems is not a matter of taking something from a supermarket shelf as there have been very many types, versions and possibly unknown aftermarket modifications which harbour plenty of room for error.

- Our systems are **NOT tested for use with third party electronic devices (such as GPS, mobile phones, LED lighting etc) and may cause damage to such parts.** Possibly existing electronic tachometers will not work with the new system. Possibly existing safety switches and electronic valve controls are not supported. It might be that your motorcycle was originally equipped with an ignition that did limit top speed for legal reasons. The new system does not have such a facility, so check your legal situation beforehand.

- If you have no expertise for the installation have it done by an expert or at a specialist's workshop. Improper installation may damage the new system and your motorcycle, possibly even lead to bodily harm.

- Before you order a system, please check whether a puller tool for the new rotor is included in the kit. If not, better order it at the same time. Never use anything other than the recommended puller tool to pull the new rotor again. Damage to the rotor as a result of use of other tools or methods is not covered by your warranty.

- The rotor is sensible to blows (including during transport). Before assembly, please always check for damage (on rotor without magnet plastification try to push the magnets aside with your fingers). After impact the glued in magnets might have broken loose, sticking to the rotor solely by magnetic force, so that one does not notice right away. During engine run the damage would be considerable. Before placing the rotor onto the engine, please make sure that its magnets have not collected any metal objects such as small screws, nuts and washers. That equally would lead to severe damage.

- If you have access to the Internet, best view those instructions online. You get larger and better pictures by clicking onto them and possibly updated information. System list at *http://www.powerdynamo.biz*



You should have received those parts:

- stator (pre-assembled)
- rotor
- electronic ignition coil / ht-cable
- regulator/rectifier
- bits & pieces



- To disengage your new rotor again, you will need a puller M27x1.25 (part-no.: 99 99 799 00 **-Not provided!-**).

- Note: Never use a claw puller, a hammer or any other device, that will shake the magnets off.

Make sure your OSSA rests securely on her stand, preferably on an elevated work bench and that you have good access to the generator side of the engine. Note that you will install a 12 volts system, so you will need to replace all lightbulbs to 12 volt ones.
Disconnect the wires from the old dynamo. Pull all wires out of the engine housing.







- Pull the rotor off, you will need a puller for this. Unscrew the old stator and take it off the engine.

- Take the woodruff key from the crank. You will not need it anymore. Please do not forget to do so, otherwise you will have trouble later on in the assembly.

- (**Remark:** This woodruff key does not actually hold your rotor on the shaft, this is done by the cone. It simply guides to the correct setting which will now be otherwise achieved.)



- Place the preassembled stator unit onto the engine's generator seat and screw it down there with the 3 screws M5.

- Lead the wire from the new generator through the wire opening of the engine upwards along the frame.



- If you have a single cylinder, follow the marking as shown.







- Have a look at the new rotor. You will find on its circumference a small pressed in line. That is an ignition marking too. It is durable, but not well visible, so better highlighten it with some marker pen.

- To get maximum flexibility no groove has been put into the rotor. No need to worry over the now lost woodruff key. It did not have an arresting capacity, it was guiding to correct ignition settings. Now you have the markings and a much greater flexibility.

- Place the rotor loosely onto the crank and check that it may move freely above the statorbase.

- Take the spark plug out and bring the piston into ignition position. Might be 2 mm BTDC.

- Take the rotor carefully off again without changing the crank's position and reset it onto the crank in such a way that the marking on the rotor aligns with the marking on the stator. In that position fasten the rotor carefully with the provided new fastening nut.

- Make sure not to alter the crank's position during that operation.



- Fasten the ignition coil on the frame of the motorcycle, best there, where the original coil was.

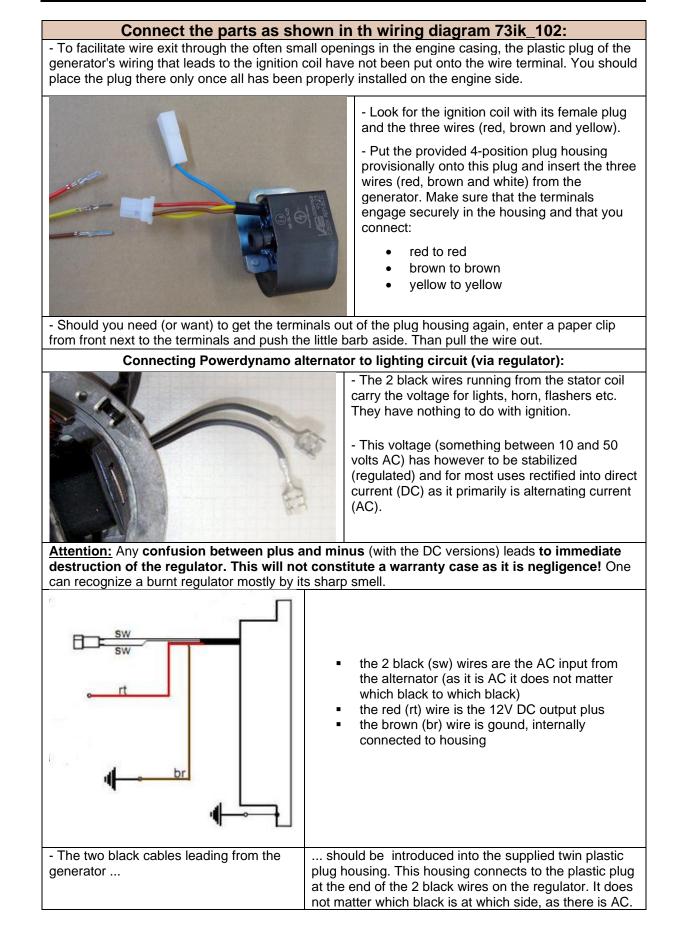
- It may be that you have to drill an extra fastening hole there for the new coil.



- Fasten the electronic regulator on the frame.











 The brown cable from the regulator should connect to either battery minus or good ground if there is no battery. The red cable from the regulator should connect to either battery 12V PLUS or if there is no battery to the wiring that runs to your consumers (normally main switch intake pin). If you use a battery, make sure that you have a 15A-fuse between battery and vehicle circuitry. There is NO facility for a charge control light without battery this will not work anyway. The regulator has an inbuilt high potency condenser to smoothen voltage. This will make sure that your side indicators (flashers) and horn will work correctly even without battery. Remains the blue (sometimes blue/white) wire at the ignition coil. This is the kill (cut-off) wire. Should you experience ignition failures, disconnect as a first measure this blue wire. In many cases that will permit you to get mobile again Screw the high tension (ignition) cable into the ignition coil and pull over the rubber seal before mounting the coil (it will be easier). Please do not use any spark amplifying cables, such as "Nology supercables" or "hot wire". This will disturb the system and possibly damage it. Please do not use any spark amplifying cables, such as "Nology supercables" or "hot wire". This will disturb the system and possibly cond-new") sparks plugs, terminals and cables. Out use spark plugs with an intern suppression resistor. NGK (e.g.) offered such spark plugs coded with an "R" (for resistor). Finally - and before installing the battery and before the first kickstart - please re-check carefully al connections and fitments against the wiring diagram. Do check battery and light bulbs for correct voltage (12V). Should something not work, please consult our trouble-shooting guide on our homepage. As a first step disconnect the blue wire from the coil and re-test. IMPORTANT: During crank shaft repair the dynamo shaft		
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Important safety and operating information - Safety first! Please observe the general health and safety regulations motor vehicle repair (MVR) as well as the safety information and obligations indicated by the manufacturer of your motorcycle. The timing marks on the material are for general guidance only during first installation. Please check after assembly by suitable means (stroboscope) that settings are correct to prevent damage to the engine or possibly even your health. You alone are responsible for the installation and the correctness of settings. - Ignition systems generate high tension! With our material right up to 40,000 Volts! This may, if handled carelessly, not only be painful, but outrightly dangerous. Please do keep a safe distance to the electrode of your spark plug and open high tension cables. Should you need to test spark firing, hold the spark plug socket securely with some well insulating material and push it firmly to solid around of the engine block. Never pull sparkplug caps when engine is running. Wash your vehicle only with engine at standstill and ignition off. - You should have received the HT Cable with the fixed rubber cap (which does not contain a resistor) as a part of the kit, you should have to use a spark plug with an inbuilt resistor (or replace the cap with the one containing a resistor) to comply with your local laws (Electromagnetic compatibility requirements). - Do not use a spark plug cap(s) containing a resistor WITH a spark plug(s) containing a resistor at the same time. It would cause problems, especially difficult engine starting. The total resistance of cap and spark plug combined should not exceed 5kOhm. - Remember that candle plugs age, increasing resistance. If an engine only starts when it is cold, it is very likely that a defective spark plug connector or faulty spark plug is the cause. Do not use socalled ignition-reinforcing cables (e.g. Nology). - After installation, please check tightness of all screws, even those preinstalled. If parts get loose during run, there will be inevitably damage to the material. We pre-assemble screws only loosely. - Give the newly installed system a chance to work, before you start to check and test values, or what is worse apply changes to it. Our parts have been checked before delivery to you. You will not be able to check much anyway. At any rate do refrain from measuring the electronic components (such as ignition coil, regulator and advance unit). You risk severe damage to the inner electronics there. You will not get any tangible results from the operation anyway. Bear in mind that also your carburetor, your spark plugs and spark plug sockets (even if completely new) might be the reason for malfunction. The general experience with our systems is that the carburetor will have to be readjusted to lower settings. Should the system not start after assembly, first disconnect the blue (or blue/white) cut-off wire directly at the ignition coil (or in some cases advance unit) to eliminate any malfunction in the cut-off circuitry. Check ground connections carefully, make sure there is a good electrical connection between frame and engine block. In case of troubles, please consult our Knowledge Base first before you send off the material to us for checking. - The spark of classic, points based ignition systems has with about 10,000 Volts comparatively little energy and looks therefore yellow and fat (which however makes it highly visible). The spark from our system is a high energy spark with up to 40,000 Volts and therefore is needle thin focused in form, and blue in colour, which makes it not so visible. Furthermore you get spark only at kickstart operated speeds and not by pushing the kick-lever down slowly with your hand (as you might get with battery based ignitions). - Systems using a twin outlet ignition coils have a few peculiarities. Please observe that during tests on one side, the other has either to be connected to an fitted spark plug or securely earthed/grounded. Otherwise there will be no spark on either side. Also with such open exits long and dangerous sparks may fly all over the coil. - Never do electric arc welding on the bike without completely disconnecting all parts containing semiconductors (ignition coil, regulator, advance) stator and rotor need not be taken off. The same is true for soldering. Before touching electronics disconnect the soldering iron from mains! Never use copper putty on spark plugs.





- Electronics are very sensitive to wrong polarity. After work on the system, do check correct polarity of the battery and the regulator. Wrong polarity creates short circuits and will destroy the regulator, the ignition coil and the advance unit. As a rule, wiring will always be colour to colour. Instances, where colour jumps between wires are expressly mentioned in our instructions.

- When you handle the new rotor, take care not to damage its magnets. Refrain from direct blows to the circumference of the rotor. When transporting never put the rotor over the stator. Observe our information relative to transport of the material.

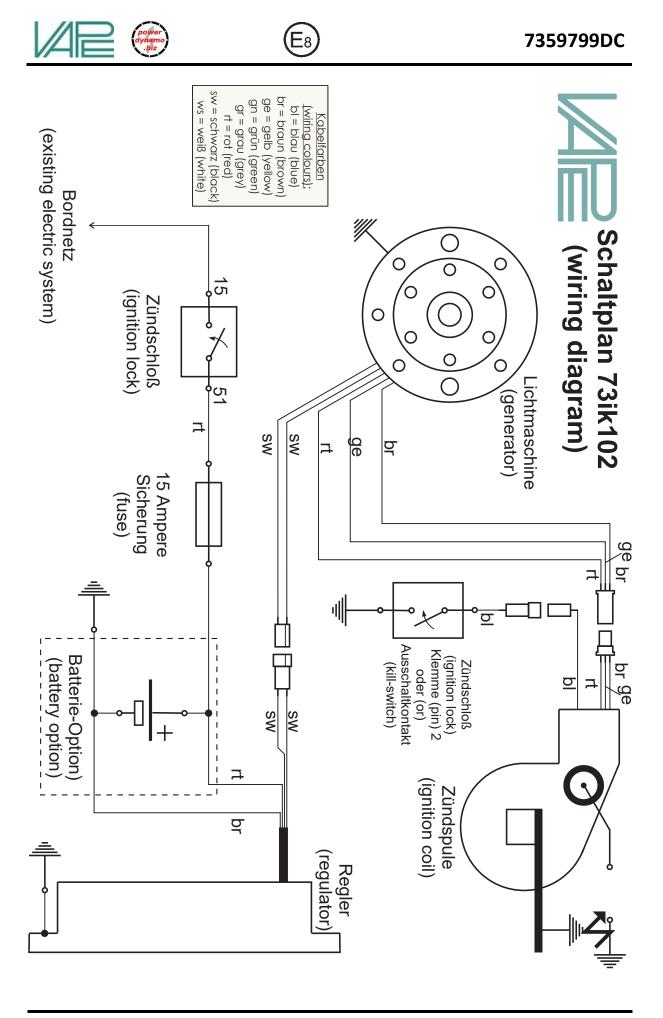
- Do not use spark plug sockets with a resistance of more than 5kOhm. Better use 1 or 2kOhm ones. Bear in mind that spark plug sockets do age and thereby increase their internal resistance. Should an engine start up only when cold, a defective spark plug socket and/or spark plug is very probably the cause. In case of problems check high tension cables too. Never use carbon fibre HT-cables, never use so called "hot wires" which promise to increase spark.

- It is a good idea to cover the rotor in a thin layer of oil to reduce the risk of corrosion.

- Never use a claw puller or a hammer to disengage the rotor. Its magnets might become loose in the event. We offer a special puller for disengaging the new rotor again (see assembly instruction)!

- Should the motorcycle not be in use for some longer period, please disconnect the battery (so existing) to prevent current bleeding through the diodes of the regulator. Though, even a disconnected battery will empty itself after a while.

- Please do observe these remarks, but at the same time, don't be afraid of the installation process. Remember, that before you, thousands of other customers have successfully installed the system. *Enjoy driving your bike with its new electric heart!*



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