



System 785059900



Advantage over original system:

Only ignition for Beta 260 TR34R - with rotor 1.4 kg

- Replaces the complete old generator and ignition.

Solid state electronic ignition with own power supply from within the system.

There is no need for changes on engine casing.



- all parts are new
- very stable ignition with solid spark
- better starting, better fuel burning
- no wear anymore on points





| Assembly instructions for systém 785059900 17.6.2021 |
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| - 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 |
| <u>IMPORTANT</u> |
| - 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) lead- acid 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

- preassembled stator unit
- rotor
- electronic ignition coil
- high tension cable for dirtbike purposes
- blue wire for killswitch
- cable binders



- To disangage the new rotor again, you 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 motorcycle rests securely, preferably on an elevated work bench and that you have good access to the magneto side of the engine.

- Disconnect your battery and take it out of the motorcycle. Note that you will install a 12 volts system, so you will either need a 12 volt battery or you use the option of driving without. You will still have to replace all lightbulbs to 12 volt ones. The horn may stay at 6 volts. For driving without battery, please observe our information on driving without battery.

- Disconnect the cables from your old magneto and remove it.

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 the assembly.

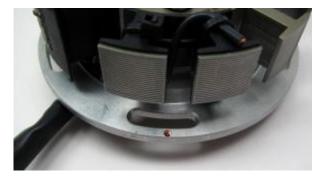
- **<u>Remark</u>**: This woodruff key does not actually hold your rotor on the shaft, this is done by the taper. It simply guides to the correct setting which will now be otherwise achieved





- Unscrew the stator coil from the base plate and lift it a little away from it so that you can access the mounting holes. Take care not to damage the paint insulation of the coil.

- Place the preassembled unit (adapter plate/stator) at the ignition system mounting of the crank case. Screw it down with the provided M5 screws



- Then have a look at the base plate. There you will find there also a marking. These are ignition markings. They have to align at the moment of ignition.

- Remove the spark plug. Place the rotor loosely onto the crank and check that it may move freely above the statorbase. Bring the piston into ignition position. For getting this, you may put the new rotor handtight on the crank shaft for turning the shaft.



Have a look at the new rotor. You will find on its circumference a small lasered on line.

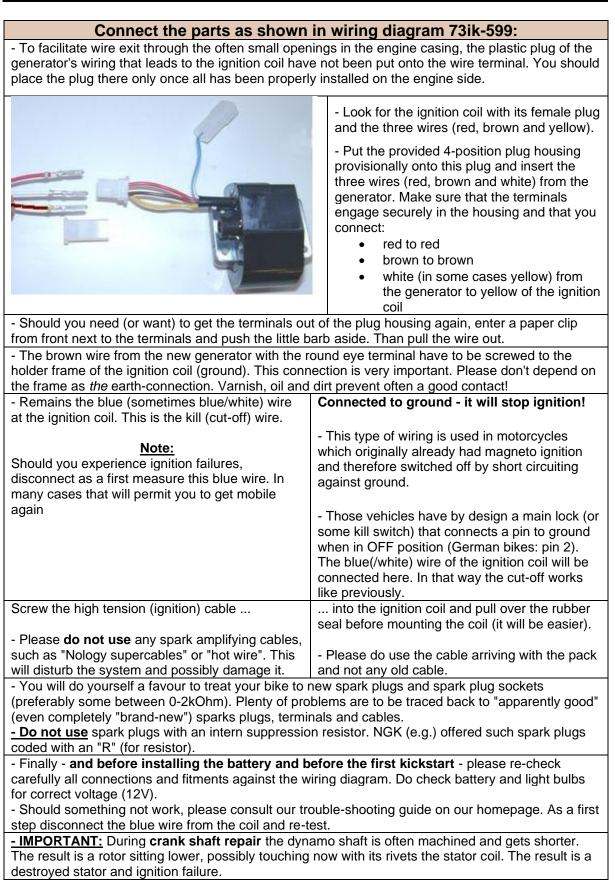
Once ignition position is found, take the rotor carefully off again without changing the crank's position. Reset it onto the crank in such a way that the marking on the rotor aligns with the marking on the stator. If there is any change in the crank's position, you have to start again.

(The photo shows a similar system!)

Screw the ht-cable into the ignition coil, then fasten the ignition coil on a convenient place. Secure the generator cables on the frame with the enclosed cable binders.

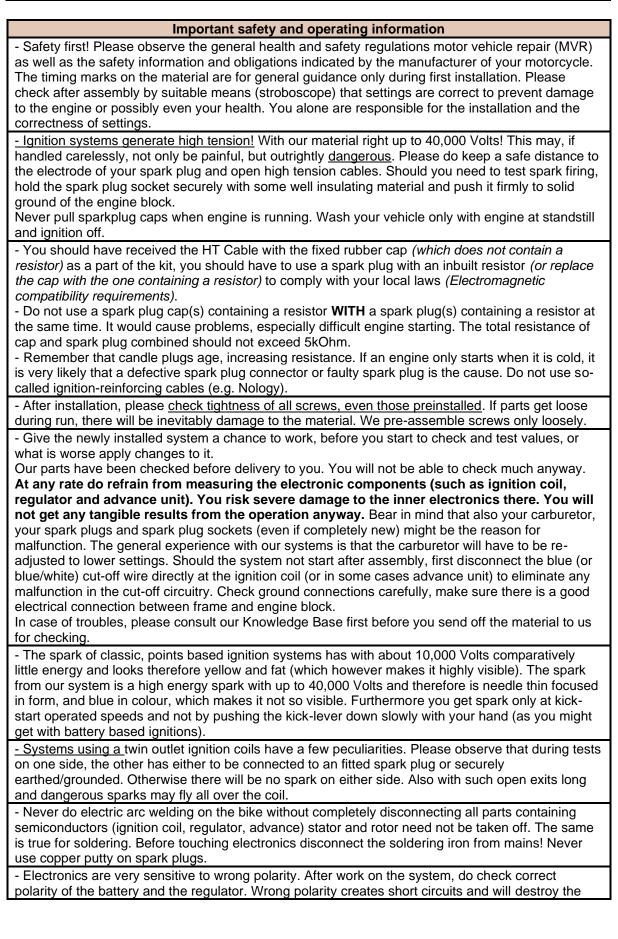
















regulator, the ignition coil and the advance unit. As a rule, wiring will always be colour to colour. Instances, where colour jumps between wires are expressly mentioned in our instructions.

- 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.

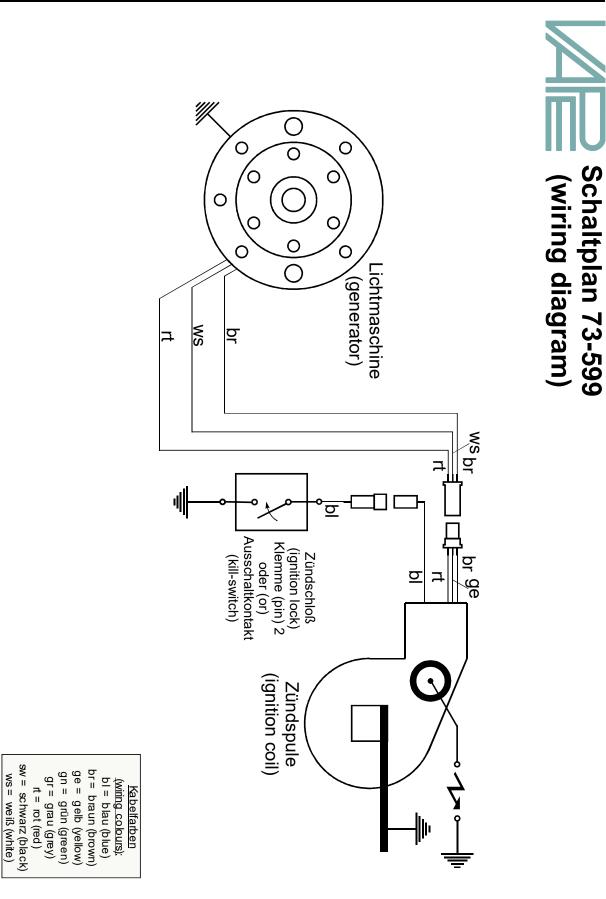
- It is a good idea to cover the rotor in a thin layer of oil to reduce the risk of corrosion.

- 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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