



System 760279900



Advantage over original system:

Generator/electronic ignition for Husqvarna CR125 Kokusan (Japan) 110 mm base / rotor 77.4 mm dia, clockwise rotation

- Magnet based generator with integrated fully electronical ignition. Output at 12V/100W DC.

- Solid state ignition with own power supply from within the system. Replaces old dynamo and ignition coil.

- No changes on engine casing needed. The system is technically capable of running without battery.

- all parts are new
- more light output
- very stable ignition with solid spark
- better starting, better fuel burning







Assembly instructions for system 760279900	4.12.2023	
- 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 installation, operation, usage and maintenance of the system. Improper installation n damage to property and possibly even bodily injury. Therefore we assume no respondamage or cost which result from, or are in any way related to, incorrect installation, operation, or incorrect use and maintenance. We reserve the right to make changes technical data or assembly and operating instructions without prior notice	nay result in nsibility for loss, improper	
<u>IMPORTANT</u>		
- Please read these instructions fully and carefully before starting work on your Please bear in mind that any modification of the material as well as own repair attem not been agreed with VAPE may result in a loss of warranty. Do not cut off wires. The loss of reverse polarity protection and often results in damage to electronics. Also, pl of the information provided on the information page for this system. Check that what bought really corresponds to the motorcycle you have. Wrong ignition settings may consider and even hurt you during kickstart (violent kickbacks). Be careful during the fin needed change settings to safer values (less advance). During assembly check care rotor (flywheel) does not touch the stator coils or anything else, which may happen do circumstances and lead to severe damage.	npts which have is leads to a lease take note you have damage your irst test runs. If efully that the	
 Designated use This system is designated to replace stock dynamo/alternator & ignition systems in classic motorcycles whose engine characteristics have not been modified aftern system is not a tuning system and it will not bring significant increases in engine outphowever significantly enhance roadworthiness and comfort by offering better lighting of side indicators and horn and, compared with the aging stock systems, increased rour system does not tamper with engine characteristics it does not increase emission pollutants and noise. In most cases emission of pollutants should even be reduced d combustion. If used as designated the system therefore will not normally infringe the status of the motorcycle. (Please check your local legal regulations!) This system is ruse in competition events. If used other than the designated way, your warranty will it might well be that you do not obtain the desired results or, worst you loose legal rour such as the system. 	narket. This put. It does , better function reliability. As n of gaseous due to better e existing legal not suitable for be voided and padworthiness.	
- 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 system acid batteries with liquide electrolyte or sealed lead-acid batteries, AGM, Gel. It is n use with nickel-cadmium, nickel-metal-hydride, lithium-ion or any other types of rechargable batteries.	not suitable for archable or non	
- This is a replacement system and not a copy of the stock material . The parts in therefore look different and might fit differently (notably ignition coil and regulator) readaptation by you.		
- During assembly imperatively start with assy of engine based parts to see that before you start fitting the external parts. In many cases customers assemble those is thereby often modify them in breach of warranty which renders them unfit for renewer Replacing old ignition systems is not a matter of taking something from a supermark there have been very many types, versions and possibly unknown aftermarket modify harbour plenty of room for error.	first and ed sale. et shelf as	
- Our systems are NOT tested for use with third party electronic devices (such a mobile phones, LED lighting etc) and may cause damage to such parts. Possible electronic tachometers will not work with the new system. Possibly existing safety swelectronic valve controls are not supported. It might be that your motorcycle was origin with an ignition that did limit top speed for legal reasons. The new system does not have facility, so check your legal situation beforehand.	ly existing vitches and jinally equipped	



- 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:

- pre-assembled stator unit
- rotor
- electronic ignition coil
- ht-cable / blue kill wire
- 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 Husqvarna rests securely, preferably on an elevated work bench and that you have good access to the dynamo side of the engine.

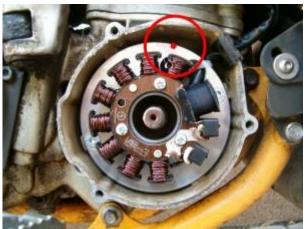




- Remove the opriginal rotor - you will need a special puller tool. Unscrew the old stator and take it from the engine.

- Take the woodruff key from the crank pin. It will not be needed any more and prevent assembly.

- If you forget this right at start, you will have to take the whole new unit off again to get access to the key.



- Take a look at the base plate, you will find here a red ignition marking.

- Place the base plate onto the motor case and screw it down with the 2 screws provided. The larger black coil must be positioned near the cable exit.



- There is a rubber grommet on the stator wire.

- Press it into the wire exit opening and than cut the surplus material off carefully.

- **Ignition timing:** 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.







- Have a look at the new rotor.

You will find on its circumference a small pressed in line.

That is an ignition marking. It is durable, but not well visible, so better highlighten it with some marker pen.

- Before placing the rotor, you should have checked its inner for foreign objects (especially screws) that "stick" to its magnets, the cause damage while running.



- 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. Please look for it at the owners manual.

- 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 original nut

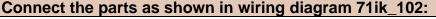
- Check again that the rotor may move freely above the stator base and neither touches the stator coils nor grinds on the base plate!



- With that are the workings at the motor finished. Screw in the spark plug again. Fasten the ignition coil on the frame of the motorcycle, best there, where the original coil was.







- To facilitate wire exit through the often small openings in the engine casing, the plastic plug of the generator's wiring that leads to the ignition coil have not been put onto the wire terminal. You should place the plug there only once all has been properly installed on the engine side.



- Look for the ignition coil with its female plug and the two wires (red and white).

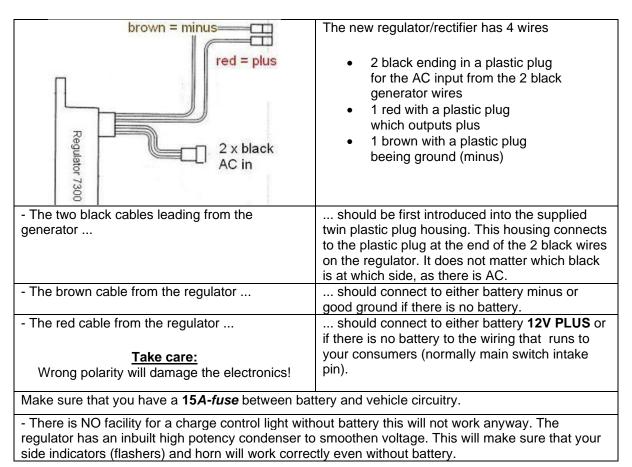
- Put the provided 2-position plug housing onto this plug and insert the two wires (red and white) from the generator. Make sure that the terminals engage securely in the housing and that you connect:

- white to white
- red to red

- Should you need (or want) to get the terminals out of the plug housing again, enter a paper clip from front next to the terminals and push the little barb aside. Than pull the wire out.

- The brown wire from the new generator with the round eye terminal has to be screwed directly to the holder frame of the ignition coil (ground).

<u>Take note! disrespecting is the most frequent cause for ignition problems!</u> Without this <u>direct</u> connection the system does not work or not work for long without problems. Please do not rely on the frame for ground. Paint, oil and dirt often prevent good contact!





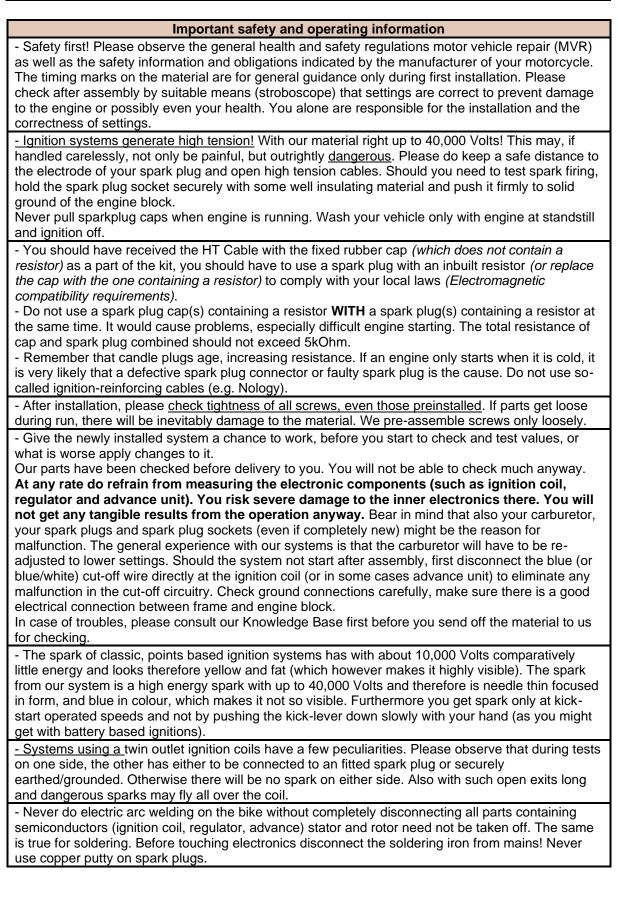


- Remains the blue (sometimes	- Connected to ground - it will stop ignition!	
blue/white) wire at the ignition coil. This is the kill (cut-off) wire. <u>Note:</u>	- This type of wiring is used in motorcycles which originally already had magneto ignition and therefore switched off by shortcircuiting against ground.	
- Should you experience ignition failures, disconnect as a first measure this blue wire. In many cases that will permit you to get mobile again	- Those vehicles have by design a main lock (or some kill switch) that connects a pin to ground when in OFF position (German bikes: pin 2). The blue(/white) wire of the ignition coil will be connected here. In that way the cut-off works like previously.	
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 use the cable arriving with the pack and not any old cable.	
 You will do yourself a favour to treat your bike to new spark plugs and spark plug sockets (preferably some between 0-2kOhm). Plenty of problems are to be traced back to "apparently good" (even completely "brand-new") sparks plugs, terminals and cables. <u>Do not use</u> 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 all 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 is often machined and gets shorter. The result is a rotor sitting lower, possibly touching now with its rivets the stator coil. The result is a destroyed stator and ignition failure.		

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- 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.

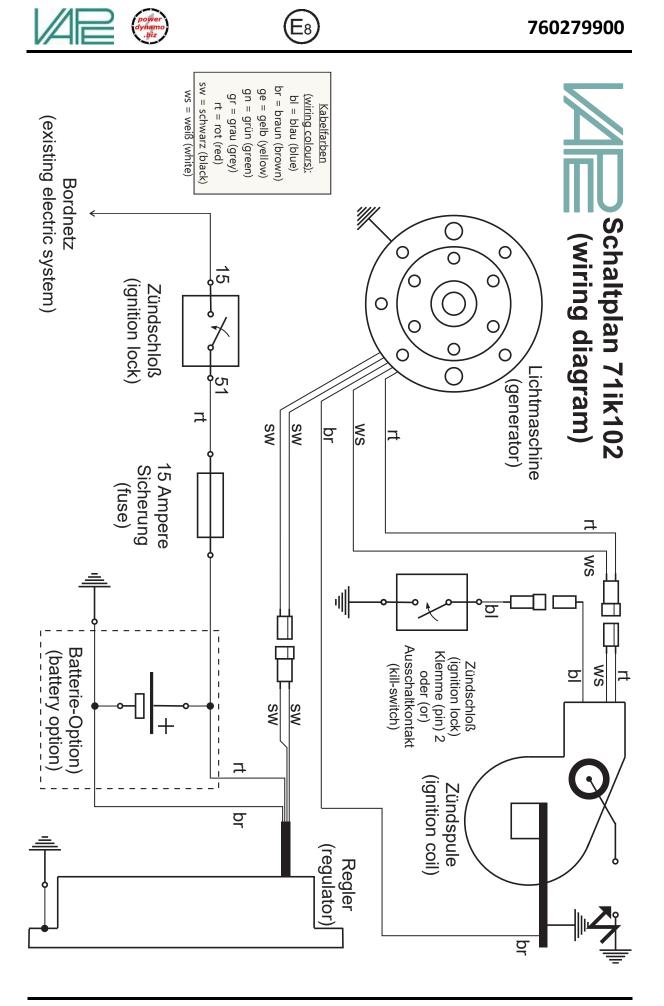
- Do not use spark plug sockets with a resistance of more than 5kOhm. Better use 1 or 2kOhm ones. Bear in mind that spark plug sockets do age and thereby increase their internal resistance. Should an engine start up only when cold, a defective spark plug socket and/or spark plug is very probably the 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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