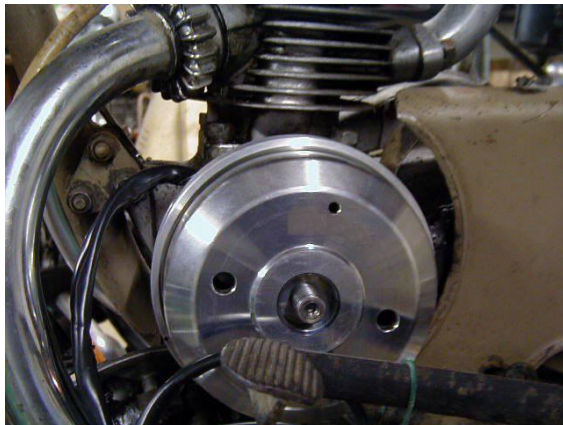


System 726479900**Advantage over original system:****Alternator/electronic ignition for René Gillet Paris 125**

- Replaces the original SAFI SSY ignition generator, upgrades to 12V/70W AC and contactless electronic ignition. The ignition timing is fixed; modern fuels eliminate the need for adjustment. The new rotor weighs 2 kg, the same as the original, but is smaller in diameter (128 mm instead of 158 mm). No modifications to the engine block are necessary.

- All parts are new
- More light output
- Stable ignition with a strong spark
- Improved starting performance
- Smoother engine running
- No more problems with the points



M726479900

Assembly instructions for 726479900	15.7.2026
- 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 rechargeable 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 rechargeable or non rechargeable 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 have received all these parts

you will notice that the winding is not clamped to its base plate, so that by moving it aside, you can access the base plate's fixing screw

- Make yourself comfortable and, if possible, position the motorbike on a platform so that you have easy access to the magnetic flywheel.



- Loosen and remove the flywheel and the winding

- Also remove the key from the crankshaft tail cone; you won't need it any more and if you leave it in, you won't be able to fit the new rotor. Replace the screws securing the plate bracket with reduced-head screws, otherwise they will prevent the mounting plate from being fitted



- Remove the three M6 screws securing the winding and pull it slightly away from the bracket so that you can access the screws securing the base plate. Take care not to damage the insulation varnish on the winding whilst doing this.

- Now fit the metal ring and the aluminium support plate in place of the old coils on the motor block. Secure them using the two M4x10 screws supplied. Take care not to pinch the wiring harness!



- Take this opportunity to fit the nuts to the rear of the support plate



- Now fit the winding onto its support (see photo); the winding must sit firmly against the support. If it feels as though it isn't sitting flush, then a cable is wedged underneath it – do not force it and check your assembly!

- Make sure the edge of the coil holder lies flat against the base plate; otherwise, the coil will be askew and the rotor will destroy it the first time the motor turns

- Secure the winding using its three M4 screws

- **Feed adjustment:** To allow for a wider range of feed adjustment, the key has been removed; it was only used to simplify adjustment and was in no way intended to hold the rotor in place.



- Fit the rotor with the washers and nut supplied, without tightening them. Look at the new rotor and the stator; you will see two marks (red dots) on the circumference.

- These are the ignition marks; when they are aligned with each other, the spark is generated.

If you were to remove the coil completely from its mount, you would need to refit it in exactly the same position as it was on the mount: make sure you mark the position!



- Remove the spark plug and move the piston to top dead centre (see the manufacturer's specifications). To turn the engine, you can use the flywheel, without pressing it all the way in or at least without jamming it; take this opportunity to check that the flywheel is not touching anything. 4.5 to 5 mm or 12° to 15° before TDC 51 (bore) x 60 (stroke)

- Taking care not to move the engine whilst it is at top dead centre, remove the rotor and reposition it so that the markings line up, as shown in the photo. Tighten the rotor with the nut provided without moving the crankshaft, turn the engine over once and check the setting. If necessary, use the supplied extractor to release the rotor

- Now fit the coil and the regulator in a suitable position, remembering to place the earth wire under one of the screws before tightening them. Route the new wiring harness along the frame, securing it with the cable ties provided, and running it to the coil and the regulator.

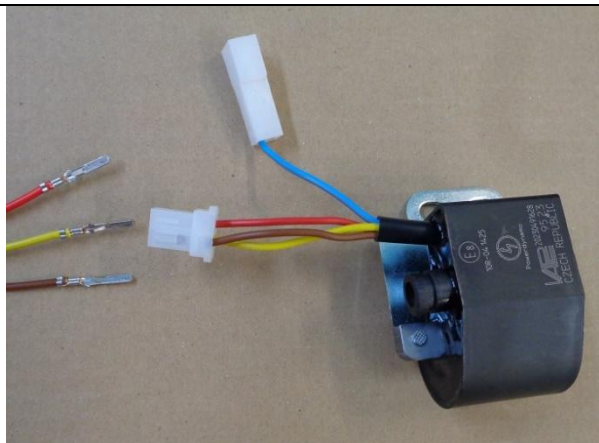
- Take care to ensure it does not rub against anything and become damaged.



- Before securing the regulator and the coil, it is best to route the wires into their correct positions, including the spark plug wire, and ensure the earth connections are properly made.

Connect the parts as shown in the wiring diagram 73ik_ac:

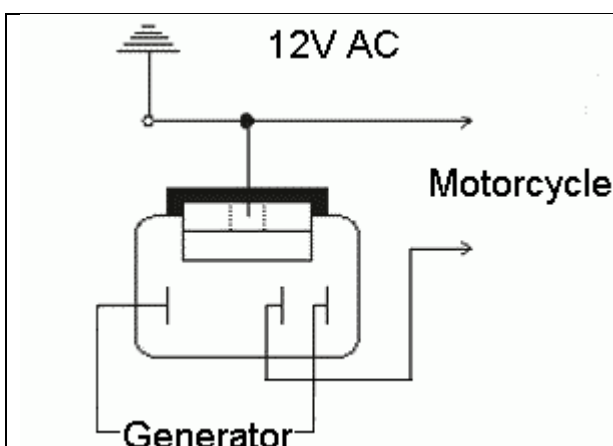
- To facilitate wire exit through the often small openings in the engine casing, the plastic plug of the generator's wiring that leads to the ignition coil have not been put onto the wire terminal. You should place the plug there only once all has been properly installed on the engine side.



- Look for the ignition coil with its female plug and the three wires (red, brown and yellow).
- Put the provided 4-position plug housing provisionally onto this plug and insert the three wires (red, brown and white) from the generator. Make sure that the terminals engage securely in the housing and that you connect:

- red to red
- brown to brown
- yellow to yellow

- 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. Then pull the wire out.



- The two black cables leading from the new generator ...

... connect to the outer pins of the new regulator. It does not matter which wire connects to which of the 2 terminals as they carry alternating current.

Additional you need to contact a ground wire ...

... to the metal holder of the regulator. Otherwise the light won't function.

The middle terminal of the regulator ...

... will be connected to the wires for the lighting system of the motorcycle.

- Remains the blue (sometimes blue/white) wire at the ignition coil. This is the kill (cut-off) wire. Note: - Should you experience ignition failures, disconnect as a first measure this blue wire. In many cases that will permit you to get mobile again	- Connected to ground - it will stop ignition! - This type of wiring is used in motorcycles which originally already had magneto ignition and therefore switched off by shortcircuiting against ground. - Those vehicles have by design a main lock (or some have a 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 ... - Please do not use any spark amplifying cables, such as "Nology supercables" or "hot wire". This will disturb the system and possibly damage it.	... into the ignition coil and pull over the rubber seal before mounting the coil (it will be easier). - 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. - Do not 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 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.	

Important safety and operating information for alternating current (AC) only systems	
- Practically, the DC regulator (rectifier/regulator) is the better solution. It will take higher loads and is more versatile in use. The advantage of the AC regulator is in its smallness. This comes in handy in: • vintage motorcycles, where you have a problem to "hide" the rather large DC regulator. The AC regulator could be possibly even mounted inside the headlight casing. • "pure off-road" motorcycles, where you need only some rudimentary electric system and have only few options to fasten the (relatively) heavy DC regulator.	
 - This advantage however goes hand in hand with a series of disadvantages (with possibly even legal implications) of the AC regulator! • You cannot use a battery (hence no parking light)! • You cannot use side indicators (trafficators), unless you install an AC flasher unit, that equally has some (possible even legal) aspects to consider! • You cannot use a normal DC horn (AC-driven that would remain totally silent). You can use an AC horn, but that too has a few points to observe! • The AC regulator handles maximally only 70 Watts load, even if the dynamo would generate more! - Given the high current (and the heat generated with this) systems with this regulator imperatively need to drive always with lights on. The energy produced by the alternator has to be consumed as otherwise the regulator trying to consume it will heat up considerably, leading not only to risk of destruction of the regulator, but also the risk of fire. (Alternatively you may drive completely without regulator should you not need lights. Than just keep the 2 black wires from the generator insulated (!) idle.	

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 ground 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 so-called 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 re-adjusted 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 kick-start 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!



Schaltplan 73ik-ac (wiring diagram)

