

Instructions for Tutti Ricambi Electronic Ignition Kit; LG Frame Vespa 2 Port SKU# EIK3



Tools Needed:
8 mm wrench
11 mm wrench
Flat tip screwdriver
Phillips screwdriver
14 mm socket and impact wrench
or
14 mm socket and ratchet with flywheel holding tool



The engine used in these instructions is a 1965 VNB 125 2 port engine.

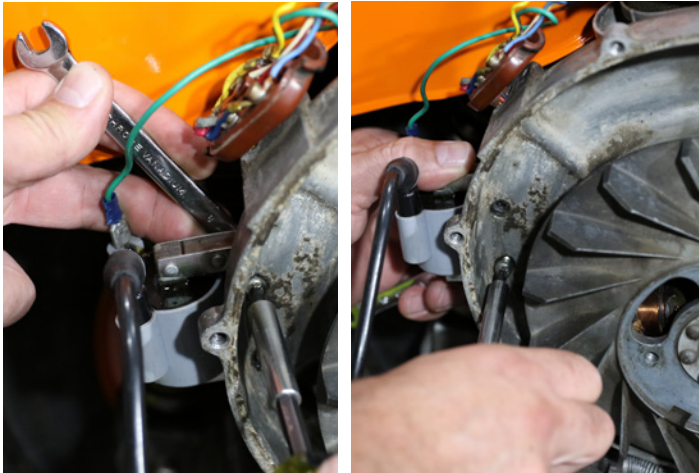
Step 1: Remove the cylinder shroud.

- Disconnect the spark plug lead.
- Use the 11mm wrench to remove the securing bolt.
- Use a flat tip screwdriver to remove the lower fan screw.
- Lift slightly upward and move the shroud forward.





Step 2: Remove the remaining fan shroud screws and take off the fan shroud.



Step 3: Remove the coil assembly.



Step 4: Remove the flywheel.

- Use a 14mm socket and an impact (or ratchet and flywheel holder) to loosen the flywheel nut.
- Use the base of the flywheel nut to catch the circlip on the flywheel.
- Slowly loosen the nut until the flywheel comes off.



Step 5: Remove the original stator assembly and junction box.

- Open the junction box at the top of engine and disconnect the stator leads from the wiring harness.
- Be sure to save the securing screws if you are reusing the original junction box.
- Loosen and remove the securing screws holding the old stator in place.
- Feed the wires through and remove the stator assembly.





Step 6: Spring Cleaning

- Take a moment to clean up and dirt and grease from the mounting surfaces and mounting holes.



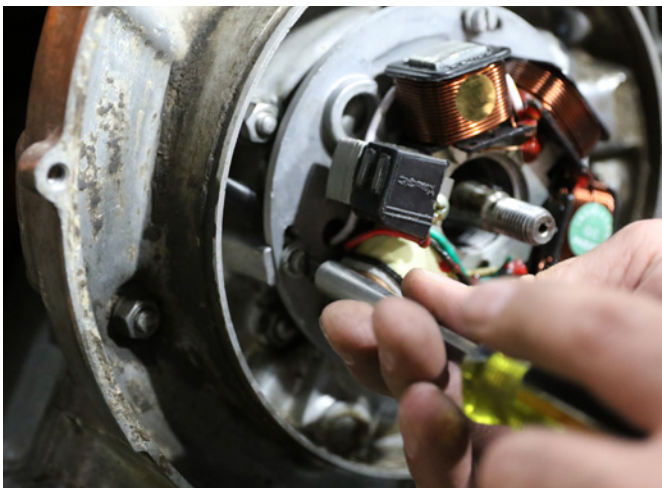
Step 7: Install the new stator.

- Feed the wiring through the case out to the junction box area, starting with the longer wires first, pass one wire through at a time.
- Once all wires are through, align the stator plate to the mounting points on the engine case.



Step 8: Set the timing.

- Loosely install one of the securing screws.
- Use the center shaft pocket as point of reference.
- The "IT" mark on the stator plate should land at the center of the circle.
- The stator should be clocked all the way to the right.
- Install and tighten down all three mounting screws.



Step 9: Install the CDI/combo.

- Locate the mounting hardware included with the kit:
 - two screws
 - two washers
 - two 8 mm nylock nuts
- Clean out dirt and road grime in the mounting holes.
- Install the screws in the mounting holes as shown.
- Slide the CDI/Coil combo onto the screws.
- Install the washer and hand tighten the nut.
- Tighten both mounting screws until snug. (Note: There should be no play or movement. Use care, as over tightening can cause the Bakelite casing to crack.)



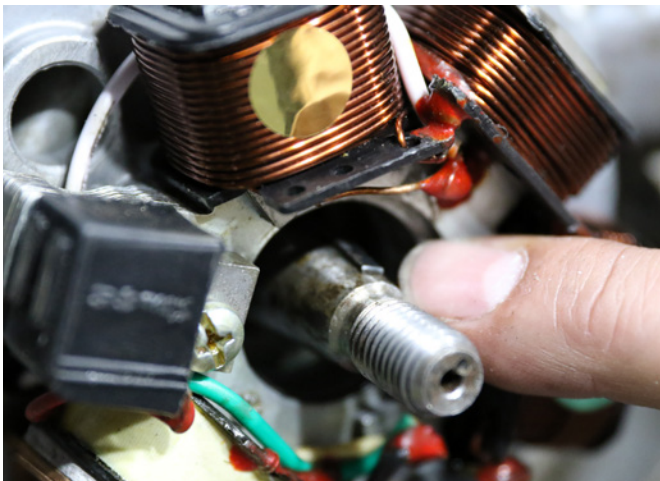


Step 10: Install the junction box.

- Reuse the original junction box if it is still in good condition. If the original junction box is corroded or cracked, replace it. SKU 120811 is used in this install.
- Feed the wires through the opening in the base and slide the junction box onto the engine case as shown.

Step 11: Wire the CDI.

- Feed the CDI wires through the protective boot.
- Flip the lower cover up for better access.
- Connect the wires to the CDI as shown:
 - White-White
 - Red-Red
 - Green-Green
- Install the green "kill" wire by slipping it through the boot from the CDI side.
- Plug the green wire into the last open green slot as shown.
- Flip the rubber boot down to cover the wiring connections. The lower edge of the boot will slide over and secure to the ridge around the cast oval.
- Secure the leads from the stator to the junction box. Route them in as straight and kink free a pattern as possible.
- Install junction box cover.



Step 12: Install the lightweight flywheel.

- Align the woodruff key with the notch in the center bore of the flywheel cone and slide the flywheel onto the crankshaft.
- Next install the wavy lock washer.
- Spin the flywheel nut onto to the crankshaft.
- Properly tighten the flywheel nut.



Step 13: Reinstall all of the shrouds.

- Attach the grounding wire from the CDI/Coil combo to the engine as shown.



Step 14: Install the spark plug wire.

- Thread spark plug wire into CDI/Coil combo until snug.
- Cut Spark plug wire to fit if necessary.
- Slide boot onto spark plug wire.
- Thread Spark plug cap onto wire.
- Slide boot down and over cap as shown.



Fully installed EIK Kit

EIK3 Wiring Diagram

