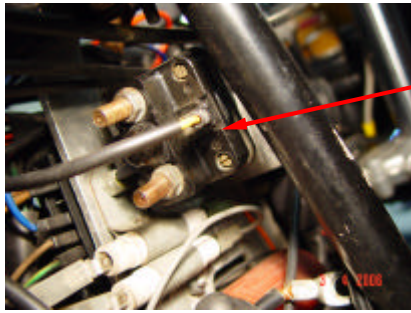


## Repairing LUCAS-Magnetical switch



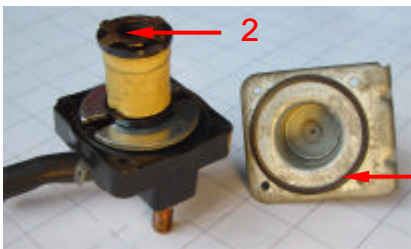
After years of usage and under impact of high current and weather, failures of the magnetic switch of the Pantah engine can occur (type: LUCAS / 76767M 12V3680)

- If the contacts are charred it doesn't switch through correctly anymore but you can still hear the switch clicking
- If you don't hear it click anymore there's probably a mechanical defect or an electrical defect on the inner coil

In the following it will be shown how to open and repair defect contacts



The housing halves are riveted together so they need to be drilled open. Later on you can replace the rivets with M3 cylinderhead screws.

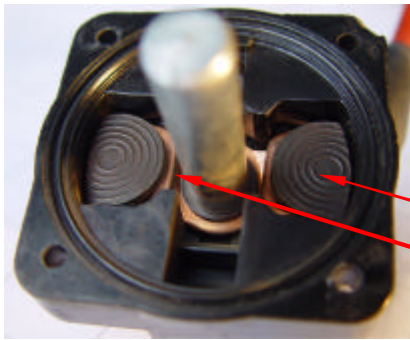


You can see the gasket (1) in the metal housing and the coil with its contact to the housing (2). The second contact of the coil is soldered.



From the lower part you can see the soldering point. This has to be heated cautiously while pulling the coil at the same time. With excessive heat the plastic housing will melt. The coil can now be removed as also the single components.

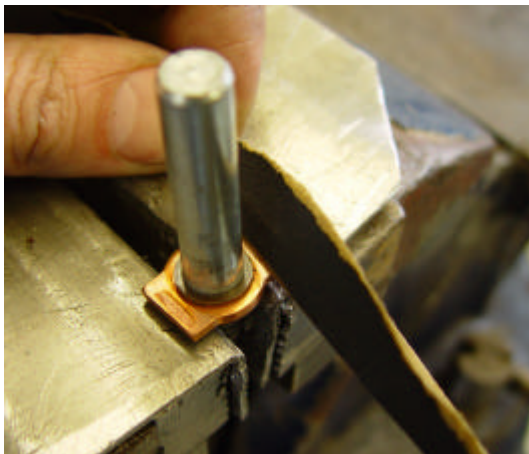




The two poles (3) hold both U-shaped contacts (4) in place. After the removal of the nuts on the rear side the poles can be pressed out. On the threaded side they are sealed with O-rings.

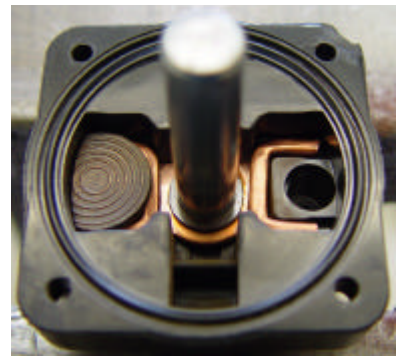
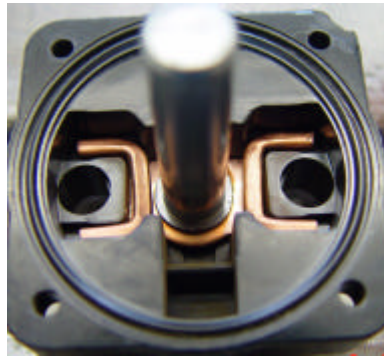


All single parts of the switch in an overview.



The charred parts of the contacts need to be sanded (in this case the damage was not so big yet)





The assembly is in the opposite order as the disassembly and is shown here only in pictures. At the end you will have a result that will work safely again for several years.

Photos and Text: Rolf Lillak