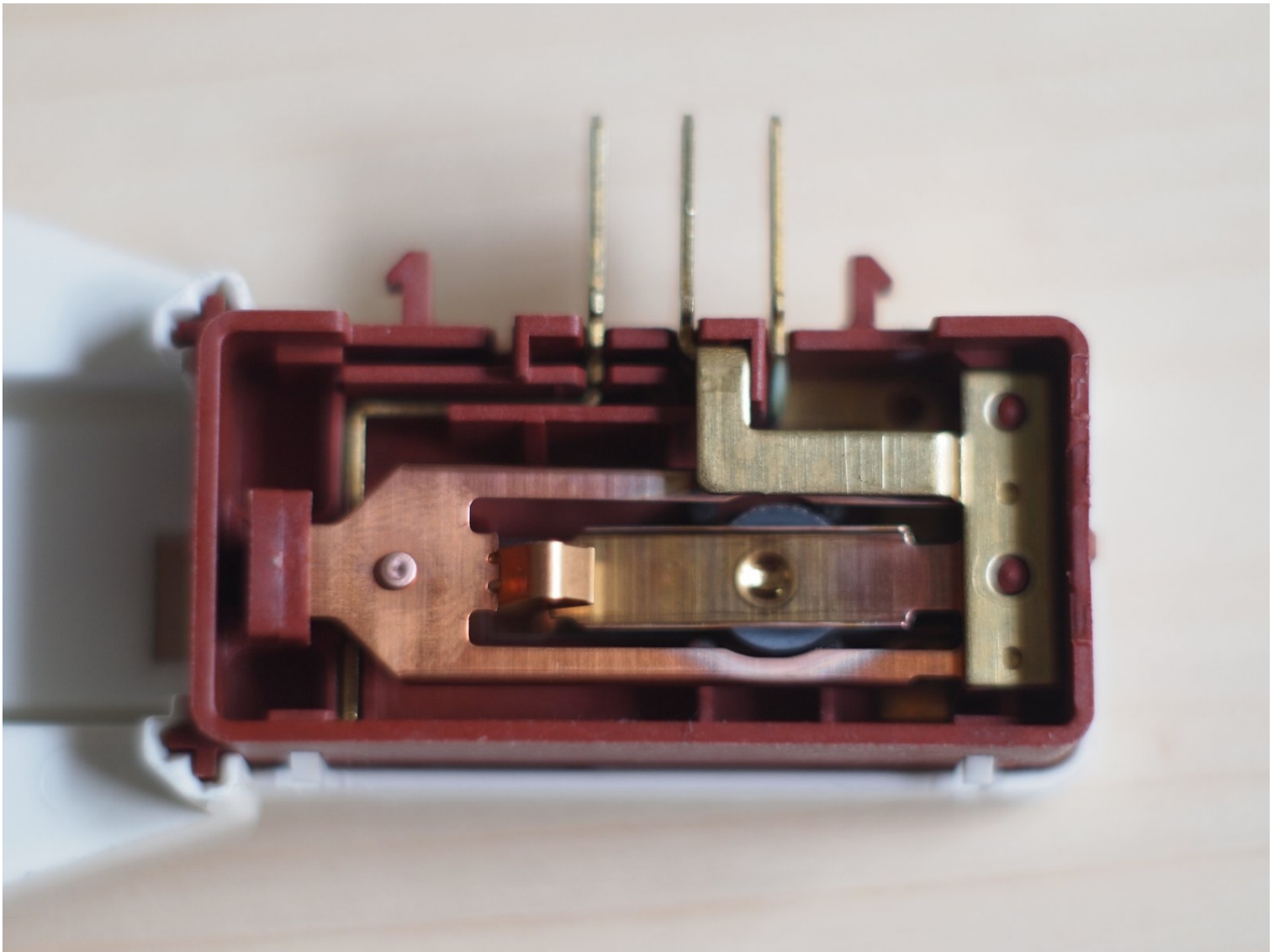




## Repairing Door Interlock Metalflex ZV-446

My washing machine gave me a hard time only...

Written By: Ludwig



## INTRODUCTION

My washing machine gave me a hard time only starting after some door opening and closing. Sometimes it would start right away, sometimes I had to try 8 - 10 times until it started washing. I figured that there was a problem with the door switch, witch determines weather the door is closed correctly. I supposed a contact problem, so the maschine though the door was still open and hence did not start washing. I did not find any repair device on the Internet, put some people wondering which contact does what. So i took a picture while repairing and tried to figure out what the contacts are for.

Note: Another trouble with the interlock (experienced in another device, but similar symptoms) was caused by displacement of the axis which the lock catch swings on. The round front door was disassembled (screws and plastic latches), the axis was put in its place and fastened with glue.



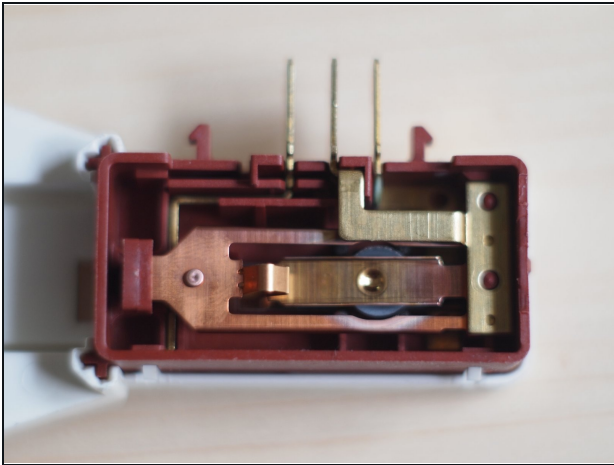
### TOOLS:

Phillips #00 Screwdriver (1)

Flathead 3/32" or 2.5 mm Screwdriver (1)

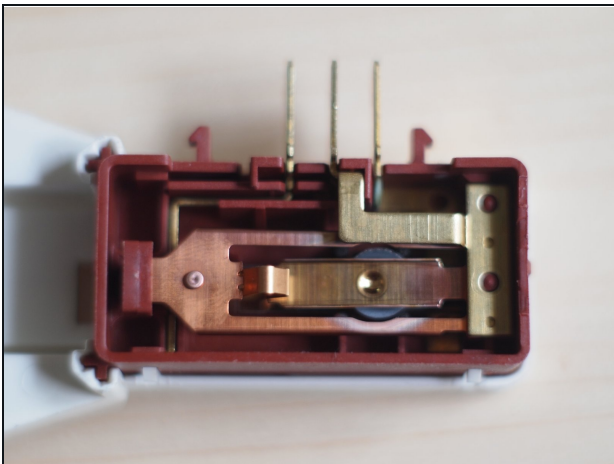
Cleaning stuff (Q-tips and IPA, sandpaper,...) (1)

## Step 1 — Repairing Door Interlock Metalflex ZV-446



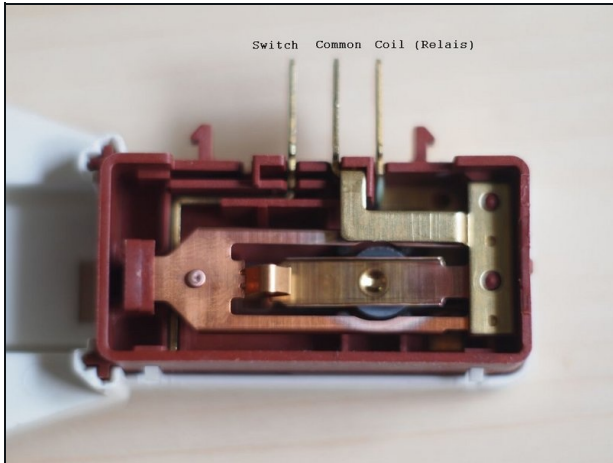
- Remove the door interlock from your device. On my washing machine I had to remove the rubber-lid and loosen two screws. Than the interlock came of with a 3-pol cable attached. On the backside was a plastic plate which had to be unscrewed, too.

## Step 2



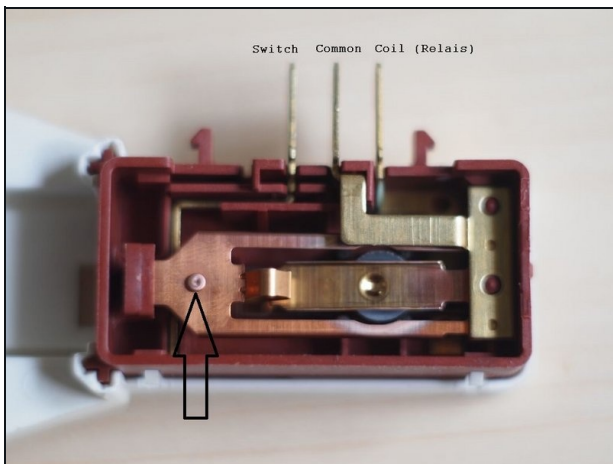
- Pull of the plug and remove the red cover arround the contacts. It is held with two snap-in connectors and its pretty tight (dont destroy the contact cover). Use a small flathead screwdriver to push the hooks away.
- Remove the top of the red housing. There are six snap-ins to open. Make shure you have removed the contact cover first! Again this is best done with a small flathead screwdriver or blade.

### Step 3



- The center contact is common for the switch and the relays. The right one goes to the coil and is for the relay-function of the interlock.
- The left one is from the door switch. This is what malfunctioned on my washing machine.

### Step 4



- The arrow points the contact of the switch. My machine stopped working because the door switch did not work properly. The machine never detected a closed door and hence never started washing.
- When the switch closes the copper plate with the arrow in the picture moves down. Underneath ends the switch contact from outside. It can be removed from the plastic housing. You should gently bend up the copper plate with the arrow. Once removed you can clean the contact area of the bottom switch contact.
- In my case nailpolish remover did not work, so I scratched the dirt off with a blade. I don't see a way to clean the top contact of the switch, because the copper plate is not removable. For my switch cleaning the bottom contact was sufficient to get the washing machine working!

To reassemble your device, follow these instructions in reverse order.