

Manual for converting foil sensor to float control on BMW R1200RT

Preface

Also with this type of BMW, foil sensors have been used for measuring the level of the fuel for a number of years. Because there is no mounting place on the pump unit of this engine to mount a standard BMW float, like the GSA, I made the Float Control 2 with a modified float arm of a car brand.

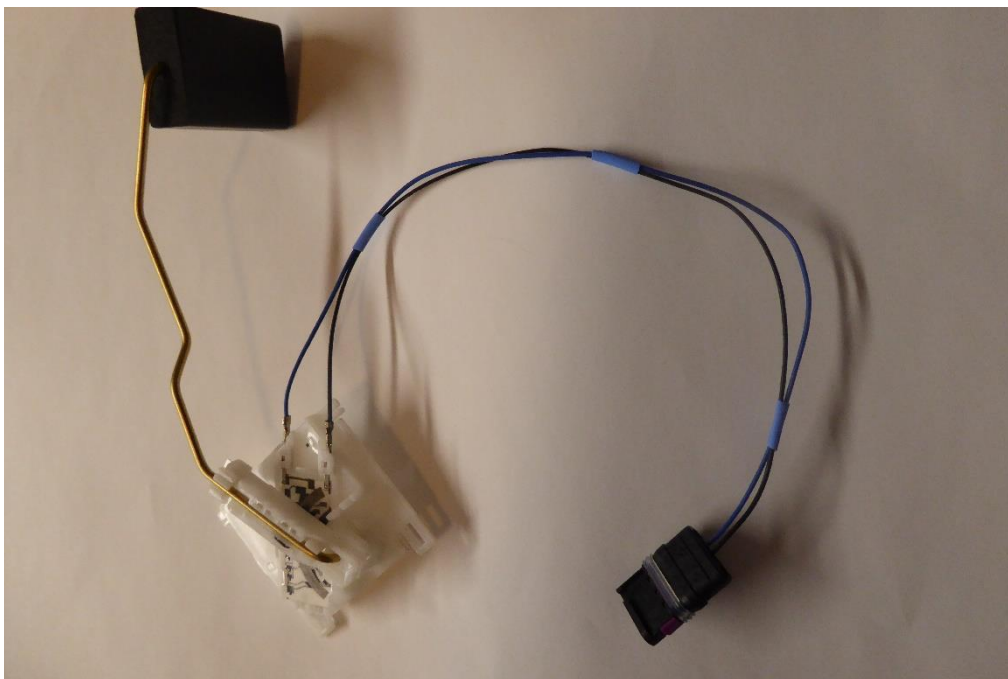


Photo 1: the float with modified float arm

In the end, the Float Control 2 can be fitted neatly on top of the pump unit with ty-raps.



The heart of the Float Control 2 is formed by using a microcontroller with embedded software written on it.

Mounting

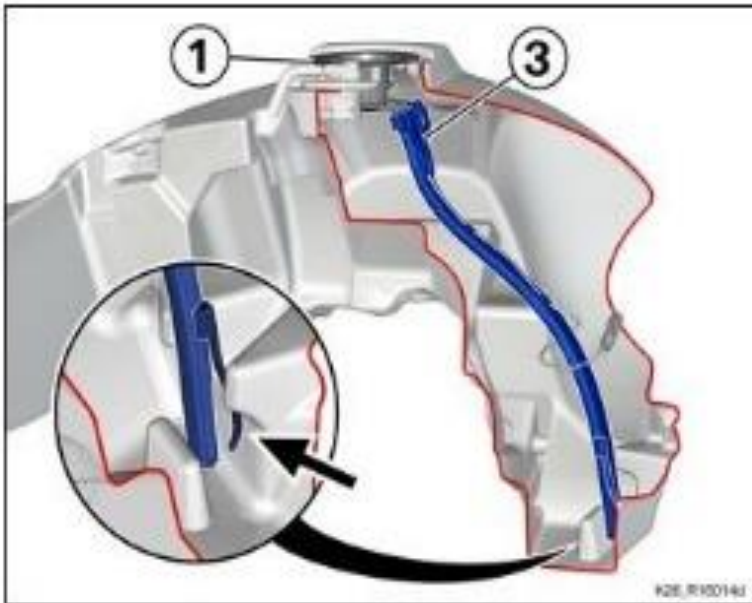
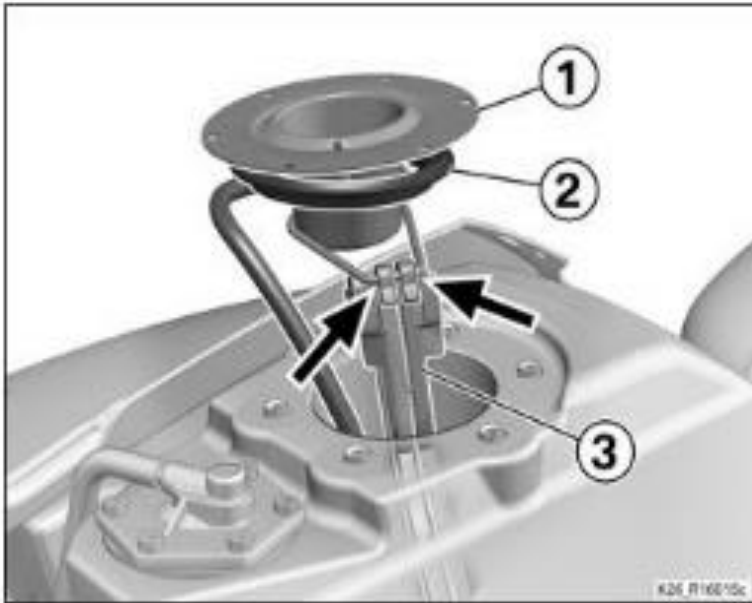
1. Make sure that there is little fuel in the tank (4 to 5 liters) , because after the float has been installed, the large inspection hole of the disassembled fuel cap makes it easier to see if the float is running properly.
2. Disassemble the plastic parts on the left side of the tank and the plastic parts on the tank to disassemble the fuel cap.



Removing left fuel-tank cover



- Remove screws (1).
- Remove screws (2).
- Open catch (3).
- Remove fuel-tank cover (4).



3. Disconnect the connections on top of the pump unit. The fuel hose has a quick coupling so that you can pull it without leakage. See the photo below.



3 F0TUBMM0IFW0D000IF0VOU0SMPBU00IF0BOL0FF0PUP0CPWF0

BM0SBUE0BODPT0000

Before connecting the Float Control 2 to the connectors, you must first check (or have checked) that no error codes have been detected in the fuel system and a calibration must be carried out with a new foil sensor, which you can do better at a BMW dealer or another company that has such a foil sensor in stock. Afterwards you will have a normal view of the fuel supply again! See the photo below.

