



Level switch for windshield washer

General

The windshield washer switch records the low washer fluid level. They prevent a failure through water shortage.

Function

A magnet fitted in a float sinks when the washer fluid level is dropping and closes a reed contact when washer fluid is low. When the reed contact is closed the washer fluid warning light is illuminated. When the washer fluid is refilled the contact is opened and the warning light goes out. When the washer switch is rotated through 180° the switching stages are also turned around.



Effects of failure

A faulty switch can cause the following:

- warning light is illuminated
- windshield washer is not operating through washer fluid shortage
- warning light is not illumination by washer fluid shortage

Causes of failure:

- damaged float
- internal short circuit
- wire short circuit/open circuit
- mechanical damage



Diagnostics

For fault recognition consider the following system test:

1. Check the connection lead and plug for correct fitting and contact
2. Check the function of the float
3. Measurement with an ohmmeter between the connection pins of the switch, measured value when the switch is open: >30 Mohm, switch is closed: 0 ohm
4. Check operation voltage, measurement with an voltmeter at the switch plug, ignition is on, measured value: about 12 V