

# TECHNICAL INFO

## OPEL

### ○ Type of vehicle

Opel/Vauxhall

### ○ Vehicles in question

Astra-G, 1998-2003

Zafira, 1999-2003

Astra-G Coupé, 2002-2003

Astra-G Cabrio, 2000-2003

### ● PROBLEM

Noises occur, coming from the rear-wheel brakes.

### ○ Cause of the problem

Rubber-coated holding pins inside the brake caliper.

### ○ Fault elimination

It is recommended to check the rear-wheel brakes for amended cable conduits and balance weights. The rubber-coated holding pins should only be replaced in case there are balance weights present. Check the version of the holding pins:

- Rubber-coated holding pin- hexagonal flange
- Uncoated holding pin- round collar

### ○ Spare parts

Spare parts have to be ordered via the Opel Technical Support Center, because there is no spare part number available.

### ○ Type of vehicle

Opel/Vauxhall

### ○ Vehicles in question

Astra-G, 1998-2003

Zafira, 1999-2003

Astra-G Coupé, 2002-2003

Astra-G Cabrio, 2000-2003

### ● PROBLEM

Noises occur without activating the brake, coming from the rear-wheel brakes.

### ○ Cause of the problem

There is a balance weight missing at the cable conduit of the handbrake cable.

### ○ Fault elimination

It is recommended to install cable conduits with balance weights at the brake calipers of the rear-wheel brakes. This recommendation is only for brake caliper made by TRW (not BOSCH). It is not necessary to replace the brake caliper.

Attention: The fault can't be eliminated by cleaning, lubricating or replacing the brake pads.

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## OPEL

### ○ Type of vehicle

Opel/Vauxhall, Astra-H

### ○ Vehicles in question

All models.

### ● PROBLEM

The ABS warning light illuminates. The error codes C0045 (concerning the ABS wheel speed sensor in the back (left), malfunction electric circuit) and C0050 (concerning the ABS wheel speed sensor in the back (right), malfunction electric circuit) might be saved.

### ○ Cause of the problem

Water inside the cable harness multiple plug of the rear-wheel speed sensors.

### ○ Fault elimination

It is recommended to check the cable harness multiple plug for corrosion and if necessary to replace them. Fill the new cable harness multiple plugs with silicone grease.

### ○ Type of vehicle

Opel/Vauxhall, Astra-H, 1,4l, Z14XEP, 66kw (90 hp), at 5600 rpm, R-Cat, year of construction 2004-2011

### ○ Vehicles in question

All models with ESP.

### ● PROBLEM

It is not possible to calibrate the steering angle sensor, using a diagnosis device.

### ○ Cause of the problem

The steering angle sensor isn't aligned correctly.

### ○ Fault elimination

Disconnect the battery. Wait for 5 minutes. Remove the steering wheel. Align the steering angle sensor in the central position. Install the steering wheel. Reconnect the battery and calibrate the steering angle sensor, using the diagnosis device.

### ○ Type of vehicle

Opel/Vauxhall Signum

### ○ Vehicles in question

All models with ESP, without hill-start assist and an active spring system.

### ● PROBLEM

The ESP warning light illuminates.  
The error code C013108 is saved in the ABS/ESP control unit.

### ○ Cause of the problem

There is a software error present in the ABS/ESP control unit.

### ○ Fault elimination

To exclude other causes of problems, other electrical and mechanical system tests should be carried out. If there are no other errors present it is recommended to program the ABS/ESP control unit with the current software.

# TECHNICAL INFO

## OPEL

### ○ Type of vehicle

Opel/Vauxhall Vectra-C

### ○ Vehicles in question

All models with ESP, without hill-start assist and an active spring system.

### ● PROBLEM

The ESP warning light illuminates.  
The error code C013108 is saved in the ABS/ESP control unit.

### ○ Cause of the problem

There is a software error present in the ABS/ESP control unit.

### ○ Fault elimination

To exclude other causes of problems, other electrical and mechanical system tests should be carried out. If there are no other errors present it is recommended to program the ABS/ESP control unit with the current software.

### ○ Type of vehicle

Opel/Vauxhall Zafira-B

### ○ Vehicles in question

All models.

### ● PROBLEM

The ABS warning light illuminates. The error codes C0045 (concerning the ABS wheel speed sensor in the back (left), malfunction electric circuit) and C0050 (concerning the ABS wheel speed sensor in the back (right), malfunction electric circuit) might be saved.

### ○ Cause of the problem

Water entered into the cable harness multiple plugs of the rear-wheel speed sensors.

### ○ Fault elimination

It is recommended to check the cable harness multiple plugs for corrosion and if necessary to replace them. Fill the new cable harness multiple plugs with silicone grease.

### ○ Type of vehicle

Opel/Vauxhall Zafira-B, 1,7l, A17DTJ, 81kw (110 hp), at 3800 rpm, year of construction 2008-2013

### ○ Vehicles in question

All models with ESP.

### ● PROBLEM

It is not possible to calibrate the steering angle sensor using a diagnosis device.

### ○ Cause of the problem

The steering angle sensor isn't aligned correctly.

### ○ Fault elimination

Disconnect the battery. Wait for 5 minutes. Remove the steering wheel. Align the steering angle sensor in the central position. Install the steering wheel. Reconnect the battery and calibrate the steering angle sensor, using the diagnosis device.

Learn more at [www.bremboparts.com](http://www.bremboparts.com)



# TECHNICAL INFO

## OPEL

### ○ Type of vehicle

Opel/Vauxhall Vivaro

### ○ Vehicles in question

All models with ESP, produced between 2003-2006.

### ● PROBLEM

The ESP warning light illuminates when the vehicle isn't moving. Error code saved in the ABS/ ESP control unit: C0153.

### ○ Cause of the problem

The steering angle sensor has been calibrated incorrectly after reconnecting the battery.

### ○ Fault elimination

It is recommended to calibrate the steering angle sensor.