

Bosch Type 2 ABS for 944 / 968

The Bosch ABS system for these cars is a very early type system and is fairly easy to Diagnose

When the ignition is switched on the ABS light on the dash should illuminate.

When the engine is started the light should extinguish

When the car reaches 3-5 MPH the system should carry out a sensor and valve check sometimes a noise can be heard from the front OS wheel arch.

If the ABS light stays on after engine start there could be a few reasons for this.

1. Brake light Switch Fault
2. ABS pump Relay
3. ABS relay G20 (944) G22 (968)
4. The ABS ECU Grounds
5. The ABS Pump Ground
6. The ABS ECU

If the light goes out with engine start, then comes on when reaching 3-5 MPH this is caused by a malfunctioning wheel sensor, ground or the sensor.

Wheels sensors will only provide output to an oscilloscope for full diagnosis but it is possible to test them with a DVM.

When the hub is spun as fast as you can by hand (direction does not matter) the sensor should output a very small voltage AC, they should all be about the same output, for the same spin speed.

Checking the resistance will only show they are not open circuit.

Checks

1. Make sure the toothed section on the rear of the hubs is free from rust and metallic particles and dirt.
2. Make sure the head of the sensor is also clean and free of dirt.
3. Check cable continuity for the ABS sensor cables.

If one sensor puts out a significantly lower voltage than the rest replace it.

The ABS sensors can be tested at the ECU cable connection.

Right Front ECU Plug Pins 21 and 11

Front Left ECU Plug Pins 6 and 4

Rear Right ECU Plug Pins 24 and 26

Rear Left ECU Plug Pins 8 and 9

It is also possible to test the ABS pump Motor by applying 12v to one pin in the ECU plug and one pin in the fuse box With the ECU unplugged.

Apply 12v across pins 28 (ECU Plug) and terminal 87 (ABS Relay fusebox) the ABS pump should fire into life.

If you have no warning light after moving off and no ABS, I would suggest that the ABS pump is seized in the valve block and needs replacing.