



DSC “WHEEL SPEED SENSOR” FAULT CODES AND MALFUNCTION INDICATOR LAMP- DIAGNOSTIC

MODEL

F22 (2 Series Coupe) with B46 or B58 engine	F23 (2 Series Convertible) with B46 or B58 engine	F30 (3 Series Sedan) with B46 or B58 engine	F31 (3 Series Sport Wagon) with B46 engine
F32 (4 Series Coupe) with B46 or B58 engine	F33 (4 Series Convertible) with B46 or B58 engine	F34 (3 Series Gran Turismo) with B46 or B58 engine	F36 (3 Series Gran Coupe)
F48 (x1 sDrive 25i) with B46 engine	G12 (7 Series LWB) with B58 engine	I12 (I8) with B38 engine	

SITUATION

1. DSC's fault codes stored from two different wheel speed sensors (both front or both rear):

- 4809B0 – wheel speed sensor - front left - drive off recognition faulty

and

- 4809CD - wheel speed sensor - front right - drive off recognition faulty

or

- 4809B9 - wheel speed sensor - rear left - drive off recognition faulty

and

- 480686 - wheel speed sensor - rear right - drive off recognition faulty.

2. Next ignition ON (after above codes stored).

a) DME fault can occur: 1F054D - drive, safety function: Drive power output reduced, DSC signals implausible

and

b) Malfunction Indicator Lamp (MIL) may light up.

CAUSE

Faulty drive off recognition due to:

- a towing operation with a raised axle
- operation of the vehicle on the vehicle hoist
- operation of the vehicle on the roller test stand

DSC diagnosis recognizes implausible wheel speeds, so no control is possible.

DME fault is entered on safety grounds since the DSC fault still exists after a terminal change and may only be removed while driving.

CORRECTION

Delete the fault memory or, after diagnosis, replace the affected wheel sensor (pulse sensor).

PROCEDURE



Note: Prior to beginning diagnosis of the faulty drive-off recognition situation, correct the issues with the vehicle that required that it be towed or operated on the lift or roller test stand.

1. Inspect the wheel sensors and wiring.

Does there appear to be substantial damage to the sensor(s)?

YES – Replace the damaged sensor(s) following REP 34 52 535 “Replacing a rear pulse sensor” or REP 34 52 525 “Replacing one front pulse sensor”. Go to step 4.

NO – Continue to next step.

2. Check for an under-voltage condition in the electrical system.

Is there an under-voltage condition or notes about a previous under-voltage condition with the vehicle?

YES – Repair under voltage condition. Go to step 4.

NO – Continue to next step.

3. Check the total number of DSC faults registered.

Is the DSC fault frequency (3) or less?

YES – Delete the fault memory.

NO – Replace the indicated sensors following REP 34 52 535 “Replacing a rear pulse

sensor” or REP 34 52 525 “Replacing one front pulse sensor”.

4. Turn ignition OFF then ON.

Were any new faults stored in memory?

YES- Perform diagnosis with ISTA.

NO – Repair is complete.

WARRANTY INFORMATION

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