



IMPROVED DRIVER SAFETY

BENDIX ELECTRONIC BRAKE WEAR SENSORS



Electronic Brake Wear Sensors are an added safety feature on many vehicles used to warn a vehicle's driver when their brake pads are near the end of their service life.

Bendix's range of Electronic Brake Wear Sensors are designed to be a direct OE replacement and cover over 900 applications.

Electronic Brake Wear Sensors are mounted on the brake pad on any combination of the four wheels, and may have sensors on 1 to 4 corners of the vehicle. When the brake pad wears and the Electronic Brake

wear sensor makes contact with the rotor, a warning is given, usually in the form of a light on the vehicles dashboard.

Wear sensors are designed to break or complete a circuit as the brake pad wears, and hence are not re-useable and need to be changed whenever the brake pads are replaced or the warning light indicates.

BENDIX ELECTRONIC BRAKE WEAR SENSORS

Top 10 Part Numbers



Vehicle Make	Vehicle Model	From	To	Variant	Front	Rear	Park	Front Wear Sensor	Front Wear Sensor Qty	Rear Wear Sensor	Rear Wear Sensor Qty
Holden	Astra	1998.09	2004	TS 1.8 4-stud Non ABS (256mm Disc / 240 mm Bosch Disc)	DB1424	DB1425		BWS1001	2		
Holden	Astra	1998.09	2004	TS 1.8 4-Stud Non ABS (256mm Disc / 240mm Lucas Disc)	DB1424	DB1511		BWS1001	2		
Holden	Astra	1998.09	2004	TS 1.8, 2.2 5-Stud ABS (280mm Disc / 264mm Bosch Disc)	DB1510	DB1425		BWS1001	2		
Holden	Astra	1998.09	2004	TS 1.8, 2.2 5-Stud ABS (280mm Disc / 264mm Lucas Disc)	DB1510	DB1511		BWS1001	2		
Holden	Zafira	2001.06	2006.05	4D Wagon 2.2	DB1510	DB1425		BWS1001			
Holden	Zafira	2002	2006.05	4D Wagon 2.2 Bosch Caliper	DB1510	DB1511		BWS1001			
Holden	Astra	2005	2010.03	1.8, 1.9D, 2.2 [AH]	DB1808	DB1511		BWS1002	1		
Holden	Astra	2006	2010.03	2.0 SRi (Not VXR) [AH]	DB1808	DB1511		BWS1002	1		
Holden	Astra	2006	2010.03	2.0 Turbo VXR [AH]	DB1664	DB1511		BWS1002	1		
Holden	HSV Astra VXR	2006	2010.03	2.0 Turbo VXR [AH]	DB1664	DB1511		BWS1002			
Holden	Vectra	1997.06	2003	JS, JR 2.0, 2.2, 2.5	DB1351	DB1273		BWS1003			
BMW	316 Series	1990	1998	316i [E36] Disc / Drum	DB1224			BWS1004	1		
BMW	316 Series	1990	1998	316i [E36] 4 Wheel Disc	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	316 Series	1993	1998	316i [E36] Coupe	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	316 Series	1995.03	2001.05	316i [E36] 3D Hatchback	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	318 Series	1991	1993	318i [E36] Disc / Drum	DB1224			BWS1004	1		
BMW	318 Series	1991	1998	318i [E36] i, is, 4 Wheel Disc	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	318 Series	1991	1999	318i [E36] Convertible	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	318 Series	1992	1998	318is [E36] Coupe	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	318 Series	1994	1998	318Ti [E36] Hatchback	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	318 Series	1994	1998	318TDS [E36] Disc / Drum	DB1224	DB1245		BWS1004	1	BWS1005	1
BMW	Z3	1995	1997	Z3 [E36] Cabrio	DB1224	DB1245		BWS1004	1	BWS1040	1
BMW	Z3	1997	2002	Z3 [E36] Coupe	DB1414	DB1245		BWS1004	1	BWS1040	1
Holden	Astra	1998.09	2004	TS with Electronic Suspension	DB1808	DB1511		BWS1006	1		
Holden	Astra	2006	2010.03	AH with Electronic Suspension	DB1808	DB1511		BWS1006	1		
Mercedes-Benz	Sprinter 208	1995	2005	2.3 D, 2.1 CDi [901],[902] (ATE Disc / ATE Disc)	DB1959	DB1978		BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 308	1995	2005	2.3 D, 2.1 CDi [903] (ATE Disc / ATE Disc)	DB1959	DB1960		BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 308	1995	2005	2.3 D, 2.1 CDi [903] (ATE Disc / Bosch Disc)	DB1959	DB1961		BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 311	1995	2005	2.1 CDi [903] (ATE Disc / ATE 258mm Disc)	DB1959	DB1978		BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 311	1995	2005	2.1 CDi [903] (ATE Disc / ATE 272mm Disc)	DB1959	DB1960		BWS1007	2	BWS1009	2
Mercedes-Benz	Sprinter 311	1995	2005	2.1 CDi [903] (ATE Disc / Bosch Disc)	DB1959	DB1961		BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 312	1995	2000	2.9 D [903] (ATE Disc / ATE Disc)	DB1959	DB1960		BWS1007	2	BWS1009	2

Mercedes-Benz	Sprinter 312	1995	2000	2.9 D [903] (ATE Disc / Bosch Disc)	DB1959	DB1961	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 313	1995	2005	2.2 CDi [903] (ATE Disc / ATE 258mm Disc)	DB1959	DB1978	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 313	1995	2005	2.2 CDi [903] (ATE Disc / ATE 272mm Disc)	DB1959	DB1960	BWS1007	2	BWS1009	2
Mercedes-Benz	Sprinter 313	1995	2005	2.2 CDi [903] (ATE Disc / Bosch Disc)	DB1959	DB1961	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 316	2000	2005	2.7 CDi [903] (ATE Disc / ATE Disc)	DB1959	DB1960	BWS1007	2	BWS1009	2
Mercedes-Benz	Sprinter 316	2000	2005	2.7 CDi [903] (ATE Disc / Bosch Disc)	DB1959	DB1961	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 316	2000	2005	2.7 CDi [903] (Perrot Disc / Perrot Disc)	DB1969	DB1969	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 412	2000	2000	2.9 D [904] (Perrot Disc / Perrot Disc)	DB1969	DB1969	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 413	2000	2006	2.2 CDi [904] (ATE Disc / ATE Disc)	DB1959	DB1960	BWS1007	2	BWS1008	2
Mercedes-Benz	Sprinter 413	2000	2006	2.2 CDi [904] (ATE Disc / Bosch Disc)	DB1959	DB1961	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 416	2000	2006	2.7 CDi [904] (ATE Disc / ATE Disc)	DB1959	DB1960	BWS1007	2	BWS1008	2
Mercedes-Benz	Sprinter 416	2000	2006	2.7 CDi [904] (ATE Disc / Bosch Disc)	DB1959	DB1961	BWS1007	2	BWS1007	2
Mercedes-Benz	Sprinter 616	2002	2006	2.7 CDi [905] (Perrot Disc / Perrot Disc)	DB1969	DB1969	BWS1007	2	BWS1007	2
Mercedes-Benz	Vito 108	1996	2003	2.2 CDi, 2.3D [M638] (Bosch Disc / Bosch Disc)	DB1986	DB1987	BWS1007	2	BWS1027	2
Mercedes-Benz	Vito 108	2000	2003	2.2 CDi [M638] (ATE Disc / ATE Disc)	DB1959	DB1988	BWS1007	2		
Mercedes-Benz	Vito 110	1996	2003	2.2 CDi, 2.3D [M638] (Bosch Disc / Bosch Disc)	DB1986	DB1987	BWS1007	2	BWS1027	2
Mercedes-Benz	Vito 112	1999	2003	2.2 CDi [M638] (Bosch Disc / Bosch Disc)	DB1986	DB1987	BWS1007	2	BWS1027	2
Mercedes-Benz	Vito 113	1996	2003	2.0 [M638] (Bosch Disc / Bosch Disc)	DB1986	DB1987	BWS1007	2	BWS1027	2
Mercedes-Benz	Vito 114	1996	2003	2.3 [M638] (Bosch Disc / Bosch Disc)	DB1986	DB1987	BWS1007	2	BWS1027	2
Mercedes-Benz	Sprinter 309	2006		2.1 CDi [906] (Brembo Disc / Bosch Disc)	DB1973	DB1972	BWS1009	2	BWS1073	2
Mercedes-Benz	Sprinter 311	2006		2.1 CDi [906] (Brembo Disc / Bosch Disc)	DB1973	DB1972	BWS1009	2	BWS1073	2
Mercedes-Benz	Sprinter 313	2006		2.2 CDi [906] (Brembo Disc / Bosch Disc)	DB1973	DB1972	BWS1009	2	BWS1073	2
Mercedes-Benz	Sprinter 315	2006		2.1 CDi [906] (Brembo Disc / Bosch Disc)	DB1973	DB1972	BWS1009	2	BWS1073	2
Mercedes-Benz	Sprinter 318	2006		3.0 CDi [906] (Brembo Disc / Bosch Disc)	DB1973	DB1972	BWS1009	2	BWS1073	2
Mercedes-Benz	Sprinter 319	2009		3.0 CDi [906] (Brembo Disc / Bosch Disc)	DB1973	DB1972	BWS1009	2	BWS1073	2
Mercedes-Benz	M Class	1998.12	2000.08	ML230 [W163] Kelsey Hayes Front & Rear brakes	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	1998.04	1998.11	ML230 [W163] Kelsey Hayes Front & Rear brakes	DB1406	DB1417	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	1998.09	2003.04	ML270 [W163] (ABS) (Kelsey Hayes Disc F & R)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	1998.09	2003.04	ML320 [W163]	DB1406	DB1417	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	1998.09	2003.04	ML320 [W163] (ABS) (Kelsey Hayes Disc F & R)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	2003.05	2004	ML350 [W163]	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	1999.03	2001.10	ML430 [W163]	DB1406	DB1417	BWS1010	2	BWS1011	2
Mercedes-Benz	M Class	1999.03	2001.10	ML430 [W163] (ABS)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 230	1998.02	1998.11	2.3 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1417	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 230	1998.11	2000.09	2.3 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 270 D	2000	2000.09	2.7 CDi 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 320	1998.02	1998.11	3.2 V6 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1417	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 320	1998.11	2000.09	3.2 V6 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 320	2005.09	2009.11	3.0d V6 Turbo Diesel [W164]	DB2048	DB2049	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 350	2002	2005	3.7 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 430	1998	2000	4.3 4WD Wagon [W163] (Bosch / Bosch)	DB1406	DB1430	BWS1010	2	BWS1011	2
Mercedes-Benz	ML 500	2005.09	2007.07	5.0 V8 [W164]	DB2048	DB2049	BWS1010	2	BWS1011	2

ADVANCED TECHNOLOGY FOR MORE CONFIDENT BRAKING

What does a Brake Pad Wear Sensor do?

The Brake Pad Wear sensor, or brake wear indicator, is an added safety feature on many vehicles used to warn a vehicle's driver if their brake pad's life becomes too low.

Where are these sensors located?

The Brake Pad Wear sensor is mounted on the brake pad and routed through the caliper in any combination of the four wheels. Vehicles have sensors on one to four wheels.

What are the common causes of failure?

Brake Pad Wear sensors are designed to "fail" as brake pads wear. They should be changed whenever the pads are replaced or when the vehicle's warning light indicates.



How to determine when to change your brake pad sensors:

- Electronic Brake Wear Sensors should be changed whenever the pads are replaced
- If they have made contact with the rotor they cannot be reused
- Even if they have not made contact they should still be replaced with every pad change
 - Materials become worn during their service life and can affect their functionality
 - To ensure sensor performance throughout the life of the new pads they should be replaced with a new sensor



FOR MORE INFORMATION

Freecall the Bendix Brake Advice Centre on **1800 819 666** (8am-5pm Monday to Friday EST)

or **+61 3 5327 0211** from overseas.

Or visit bendix.com.au or bendix.co.nz

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