

Electronic Brake System EBS



► Suitable for one axle use

We developed EBS for the operation in electric or hybrid vehicles on one axle. A vehicle specific wiring harness can be purchased (vehicle specific definition is needed).

The EBS is specifically adapted for motorsport use. Individual car parameters like e.g. brake pads friction can be calibrated with software free of charge. Please contact your Bosch Motorsport dealer for further information.

Technical Specifications

Mechanical Data

Hydraulic unit

Serial housing, dust- and damp-proof	
Vibration damped circuit board	
38 pin connector	
6 hydraulic valves for inlet/outlet	
1 separation backup valve	
1 electric pump motor	
1 hydraulic accumulator	160 bar/90 cm ³
Standard fittings	M12 x 1
Size	176 x 144 x 157 mm
Operating temperature	-30 to 130°C
Max. shock	50 g less than 6 ms
Max. working pressure	130 bar; max. recommended locking pressure 120 bar

Pressure Medium

DOT 4 brake fluid
DOT 5.1 brake fluid

Electrical Data

Supply voltage	10 to 16 V max. 24 V for 5 min
Max. peak voltage	35 V for 200 ms
Max. peak at start	<165 A
Current consumption Pump	<40 A
Current consumption Relay	<16.5 A
Power consumption Electronics	<1.5 A

Inputs

1 x PWM Target (Pressure or Torque)
1 x PWM input calliper pressure
1 x CAN1; 500 k or 1 Mb selectable
1 x CAN1 DC (Daisy Chain)
EBS function switch 6 positions via CAN1

Outputs

EBS warning light (MIL) via CAN1
EBS diagnostic via CAN1

Optional Accessories / Spare Parts

Mounting board for hydraulic unit (recommended)	0265.Y5H. 505-01
Pressure sensor PSS-260 (2 required)	0261.545.040
Rubber unit Ø 18	2260.306.017
Rubber unit Ø 23	2260.306.016
Communication interface MSA Box II	F02U.V00.327-03

Component Weights

Hydraulic unit	3,630 g
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2 pressure sensors	40 g/each
Mounting board for hydraulic unit	300 g
Vehicle specific wiring harness with motorsport connectors	Depends on version

Pin Configuration

1	UB_MR
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	GND_MR
14	CAN1M
15	CAN1M-DC
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	UB_VR
26	CAN1P

27	CAN1P-DC
28	WAU_IN
29	
30	
31	PWM Gnd
32	
33	PWM 5 V
34	
35	
36	P_Target_PWM
37	P Caliper PWM in
38	GND_ECU

Communication

EBS	CAN1
Diagnostics	MSA Box II

Installation Notes

Maintenance Interval (brake fluid change, bleeding): 220 h or a maximum of two years.

The load on the hydraulic unit in racing is much higher than in pure road operation, therefore we recommend a replacement of the unit after one year.

Legal Restrictions

The sale of this product in Mexico is prohibited.

The use of the system is not permitted in South Korea.

Ordering Information

Electronic Brake System EBS

Order number **F02U.V02.900-01**

