

# **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 <sup>3</sup>
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
Max. pressure gradient	up to 2,000 bar/s

#### **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

#### **Required Additionals**

Mounting Board for Hydraulic Unit	
Pressure Sensors Fluid PSS-260	2 required
Com Interface MSA Box II	Required for communication and programming, not mandatory if available

#### **Spare Parts**

Mounting Rubber Elements Kit	5 sets (10 units Ø 18 mm;
	5 units Ø 23 mm)

#### **Component Weights**

Hydraulic Unit	3,630 g
Mounting Board for Hydraulic Unit	300 g
2 Pressure Sensors Fluid PSS-260	40 g/each
Vehicle specific wiring harness with motorsport connectors	Depends on version

#### **Pin Configuration**

Fill Collingulation		
1	UB_MR	
13	GND_MR	
14	CAN1M	
15	CAN1M-DC	
25	UB_VR	
26	CAN1P	
27	CAN1P-DC	
28	WAU_IN	
31	PWM Gnd	
33	PWM 5 V	
36	P_Target_PWM	
37	P Caliper PWM in	

#### 38 GND\_ECU

#### Communication

EBS	CAN1
Diagnostics	Com Interface 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**

Due to embargo restrictions, sale of this product in Russia, Belarus, Iran, Syria, and North Korea is prohibited.

#### **Ordering Information**

<b>Electronic Bra</b>	ke System EBS
Order number	F02U.V02.900-01

# Com Interface MSA-Box II

Not mandatory if available Order number **F02U.V00.327-03** 

## Mounting Board for Hydraulic Unit

Order number 0265.Y5H.505-01

### Pressure Sensor Fluid PSS-260

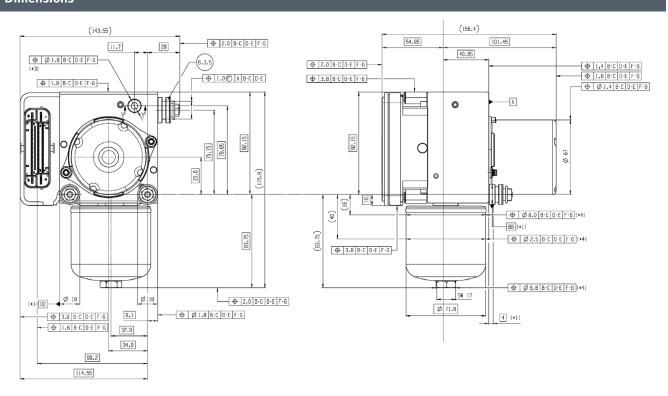
Order number **0261.545.040** 

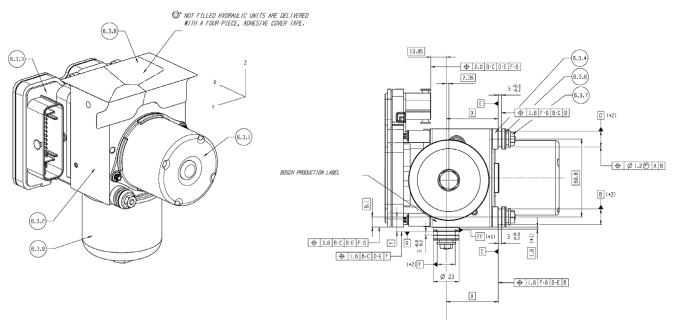
#### **Mounting Rubber Elements Kit**

Spare Part

Order number F02U.V03.318-01

#### **Dimensions**





#### Represented by:

#### Europe:

Bosch Engineering GmbH Motorsport Robert-Bosch-Allee 1 74232 Abstatt Germany motorsport@bosch.com www.bosch-motorsport.de

#### North America:

North America:
Bosch Engineering North America
Motorsport
38000 Hills Tech Drive
Farmington Hills, MI 48331-3417
United States of America
motorsport@bosch.com
www.bosch-motorsport.com

#### Asia-Pacific:

ASIA-PACHIC:
Bosch Engineering Japan K.K.
Motorsports Department
1-9-32 Nakagawachuo, Tsuzuki-ku
Yokohama-shi
Kanagawa, 224-8601
Japan
motorsport@ip.bosch.com
www.bosch-motorsport.ip

#### Australia, New Zealand and South

Robert Bosch Pty. Ltd Motorsport 1555 Centre Road Clayton, Victoria, 3168 Australia motor.sport@au.bosch.com www.bosch-motorsport.com.au

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