

ABS M5 Kit



- Suitable for front-wheel, rear-wheel and four-wheel drive vehicles

We developed ABS M5 for the operation in front-, rear- or 4-wheel drive vehicles. A vehicle specific wiring harness is included in the Kit.

The ABS M5 is specifically adapted for motorsport use. Individual car parameters like e.g. vehicle weight, vehicle track, wheel weights, wheel circumferences, wheel base or number of increments can be calibrated with software free of charge. Please contact your Bosch Motorsport dealer for further information.

Technical Specifications

Variations

Option	Kit 1	Kit 2	Clubsport
F 02U V05 2	89-01	90-01	91-01 92-01 93-01 94-01 95-01 96-01
Customized wiring loom	+	+	-
ABS-Off position optional on position 1	+	+	-
Selection of ABS maps via Bosch 12-position switch or via specified CAN signal	+	+	+*
Motorsport connectors for wheel speed sensors	-	+	-
Flexible CAN terminals	+	+	+**
Downforce depending slip regulation	+	+	-

Option	Kit 1	Kit 2	Clubsport
Lateral acceleration slip regulation	+	+	-
Corner inside wheel slip reduction regulation	+	+	-
Find more details under Dimensions .			

+*: fixed Kit Content

+**: Adjustable via Coding Plug

Mechanical Data

Hydraulic unit

Serial housing, dust- and damp-proof	
Vibration damped circuit board	
38 pin connector	
2 hydraulic valves per wheel	
2 brake circuits (front and rear)	
2 hydraulic high pressures pumps	
2 hydraulic accumulators	5 cm ³ /each
Standard fittings	2 x master cylinders M12 x 1 4 x brake cylinders M10 x 1
Size	122 x 110 x 122 mm
Weight	1,910 g
Operating temperature	-30 to 130°C
Max. shock	50 g less than 6 ms

Electrical Data

Supply voltage	10 to 16 V, max. 24 V for 5 min
----------------	------------------------------------

Max. peak voltage	35 V for 200 ms
Power consumption Pump	230 W
Power consumption Relay	170 W
Power consumption Electronics	8 W
Inputs	
4 active wheel speed DF11i, DF11S or DF11V	
Brake pressure (front brake circuit / rear brake circuit)	
Longitudinal acceleration, lateral acceleration, yaw rate (MM5.10 sensor)	
11 adjustment settings (applicable for OEMs)	
ABS function can be deactivated (Pos. 1 or Pos. 12)	
Outputs	
ABS warning light (MIL)	
EBD warning light (MIL) if needed	
TTL wheel speed signal FL / FR / RL / RR	
Communication	
ABS and Yaw rate sensor	CAN1
Diagnostics	MSA Box II

Content of Kit and Weights

Hydraulic unit	1,910 g
2 pressure sensors	40 g/each
Yaw/acceleration sensor	60 g
12 position function switch	50 g
4 wheel speed sensors DF11 standard	50 g/each
ABS warning light (MIL)	50 g
Vehicle specific wiring harness with motorsport connectors	Depends on version
Clubsport wiring harness	1,540 g
Mounting and vibration-damping boards	80 g

Mounting board for hydraulic unit	212 g
-----------------------------------	-------

Optional Accessories

Data logger C 70	F 02U V02 302-01
Display DDU 9	F 02U V02 300-02
Display DDU 10	F 02U V02 659-01
Communication interface MSA Box II	F 02U V00 327-03
Wheel speed signal splitter with 1 motorsport connector	F 02U V01 928-01

Ordering Information**ABS M5 Kit 1**Order number **F 02U V05 289-01****ABS M5 Kit 2**Order number **F 02U V05 290-01****ABS M5 Kit Clubsport**

DF11i, 500 kbaud

Order number **F 02U V05 291-01****ABS M5 Kit Clubsport**

DF11i, 1 Mbaud

Order number **F 02U V05 292-01****ABS M5 Kit Clubsport**

DF11S, 500 kbaud

Order number **F 02U V05 293-01****ABS M5 Kit Clubsport**

DF11S, 1 Mbaud

Order number **F 02U V05 294-01****ABS M5 Kit Clubsport**

DF11V, 500 kbaud

Order number **F 02U V05 295-01****ABS M5 Kit Clubsport**

DF11V, 1 Mbaud

Order number **F 02U V05 296-01**

Dimensions

ABS M5 Kit Variations

	ABS M5 Kit 1	ABS M5 Kit 2	ABS M5 Kit Clubsport	ABS M5 Kit Clubsport	ABS M5 Kit Clubsport
Type	Kit 1	Kit 2	1 Mbaud, DF11i	500 kBaud, DF11i	1 Mbaud, DF11S
Wiring harness	Specific	Specific	Generic	Generic	Generic
4 wheelspeed sensors DF11S	Included, with standard connectors	Included, with motorsport connectors	Not included	Not included	Included, with standard connectors
Wheel speed signal splitter	included*	Included*	included*	included*	included*
Fuses	Not included	Not included	Not included	Not included	Not included
Brake pipe fittings	Not included	Not included	Not included	Not included	Not included

	ABS M5 Kit Clubsport	ABS M5 Kit Clubsport	ABS M5 Kit Clubsport	ABS M5 Kit Porsche 991 Cup Gen 1	ABS M5 Kit Porsche 991 Cup Gen 2
Type	500 kBaud, DF11S	500 kBaud, DF11V	1 Mbaud, DF11V	Model year 2015	Model year 2017
Wiring harness	Generic	Generic	Generic	Specific	Specific
4 wheelspeed sensors DF11S	Included, with standard connectors	Not included	Not included	Included, Porsche specific DF11S	Included, Porsche specific DF11S
Wheel speed signal splitter TTL	included*	included*	included*	Included, DF11	Included, DF11
Fuses	Not included	Not included	Not included	Included	Included
Brake pipe fittings	Not included	Not included	Not included	Included	Included

*TTL splitter incl. in ABS Hardware, DF11 splitter optional

Represented by:

Europe:
Bosch Engineering GmbH
Motorsport
Robert-Bosch-Allee 1
74232 Abstatt
Germany
Tel.: +49 7062 911 9101
Fax: +49 7062 911 79104
motorsport@bosch.com
www.bosch-motorsport.de

North America:
Bosch Engineering North America
Motorsport
38000 Hills Tech Drive
Farmington Hills, MI 48331-3417
United States of America
Tel.: +1 248 876 2977
Fax: +1 248 876 7373
motorsport@bosch.com
www.bosch-motorsport.com

Asia-Pacific:
Bosch Engineering Japan K.K.
Motorsport
18F Queen's Tower C, 2-3-5 Minato
Mirai Nishi-ku, Yokohama-shi
Kanagawa 220-6218
Japan
Tel.: +81 45 650 5610
Fax: +81 45 650 5611
www.bosch-motorsport.jp

Australia, New Zealand and South Africa:
Robert Bosch Pty. Ltd
Motorsport
1555 Centre Road
Clayton, Victoria, 3168
Australia
Tel.: +61 (3) 9541 3901
motor.sport@au.bosch.com