

Overview

ABS M5 Kit



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

ABS M5 Kit Clubsport



- Suitable for front-wheel, rear-wheel and four-wheel drive vehicles
- Generic wiring harness to fit all engine bay and front foot well locations for the hydraulic module
- Same ABS hardware as standard ABS M5 Kit

ABS M5 Kit Porsche Cup



- Plug & Play ABS M5 Kit for Porsche 997 Cup and 991 Cup Gen 1 and Gen 2
- Tested and developed on racetracks like Spa and Nordschleife
- Detailed installation instruction available at our website
- 1 Mbaud CAN

ABS M5 Kit



Features

- 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.

Downloads about this (see Resources folder)

- 📄 RaceABS Software Tool 3.5.3.1 (Resources/zip/9007199325354763.zip)

Technical Specifications

Variations

Option	Kit 1	Kit 2	Club-Sport
F02U.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	-	+	-

Option	Kit 1	Kit 2	Club-Sport
Flexible CAN terminals	+	+	+**
Downforce depending slip regulation	+***	+***	-
Lateral acceleration slip regulation	+	+	-
Corner inside wheel slip reduction regulation	+	+	-

+*: fixed Kit Content

+**: Adjustable via Coding Plug

+***: Enabled with customer specific calibration

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 cm³/each

Standard fittings 2 x master cylinders M12 x 1
4 x brake cylinders M10 x 1

Size 122 x 110 x 122 mm

Operating temperature -30 to 130°C

Max. shock 50 g less than 6 ms

Max. working speed 360 km/h = 100 m/s = 224 mph

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

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

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-dampening boards	80 g
Mounting board for hydraulic unit	212 g

Communication

ABS and Yaw rate sensor	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 two years.

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	included*	included*	included*	Included, DF11	Included, DF11
TTL					
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

Legal Restrictions

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

Ordering Information

ABS M5 Kit 1

Order number **F02U.V05.289-01**

ABS M5 Kit 2

Order number **F02U.V05.290-01**

ABS M5 Kit Clubsport

DF11i, 500 kbaud

Order number **F02U.V05.291-01**

ABS M5 Kit Clubsport

DF11i, 1 Mbaud

Order number **F02U.V05.292-01**

ABS M5 Kit Clubsport

DF11S, 500 kbaud

Order number **F02U.V05.293-01**

ABS M5 Kit Clubsport

DF11S, 1 Mbaud

Order number **F02U.V05.294-01**

ABS M5 Kit Clubsport

DF11V, 500 kbaud

Order number **F02U.V05.295-01**

ABS M5 Kit Clubsport

DF11V, 1 Mbaud

Order number **F02U.V05.296-01**

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Ordering Information**ABS M5 Kit Clubsport**

DF11i, 500 kbaud

Order number **F02U.V05.291-01****ABS M5 Kit Clubsport**

DF11i, 1 Mbaud

Order number **F02U.V05.292-01****ABS M5 Kit Clubsport**

DF11S, 500 kbaud

Order number **F02U.V05.293-01****ABS M5 Kit Clubsport**

DF11S, 1 Mbaud

Order number **F02U.V05.294-01****ABS M5 Kit Clubsport**

DF11V, 500 kbaud

Order number **F02U.V05.295-01****ABS M5 Kit Clubsport**

DF11V, 1 Mbaud

Order number **F02U.V05.296-01**

ABS M5 Kit Porsche Cup



Features

- ▶ Plug & Play ABS M5 Kit for Porsche 997 Cup and 991 Cup Gen 1 and Gen 2
- ▶ Tested and developed on racetracks like Spa and Nordschleife
- ▶ Detailed installation instruction available at our website
- ▶ 1 Mbaud CAN

The ABS M5 Kit Porsche Cup is a derivative of the successful ABS M5 kit and specifically designed for Porsche 997 Cup and 991 Cup. A vehicle specific wiring harness is included in the kit. 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

	997 Cup (System DF11S)	991 Cup (System DF11i)
4 wheel speed sensors	Included, Porsche specific DF11S	Not included, series sensors fit
ABS warning light (MIL)	Included	Included (LED type)
Brake pipe fittings	Not included	Included
Fuses	Not included	Included
Holder for Hydraulic unit	Included, standard	Included, Porsche specific

Mechanical Data

Hydraulic unit

Vibration damped circuit board

38 pin connector

2 hydraulic valves per wheel

2 brake circuits (front and rear)

2 hydraulic accumulators 5 cm³/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

Max. working speed 360 km/h = 100 m/s = 224 mph

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

Power consumption pump 230 W

Power consumption relay 170 W

Power consumption electronics 8 W

Inputs

4 active wheel speed DF11

2 brake pressure (front brake circuit, rear brake circuit)

Longitudinal acceleration

Lateral acceleration

12 position function switch:

- 11 maps preconfigured
- 1 switch position for ABS function OFF

Outputs

ABS warning light (MIL)

CAN channels: see manual

Optional Accessories

Data logger C 70 F02U.V02.302-02

Display DDU 9 F02U.V02.300-03

Content of Kit

Hydraulic unit

Holder for Hydraulic unit See Variations

4 Wheel speed sensors See Variations

2 pressure sensors

MM5.10 acceleration sensor

Vibrations damping board for acceleration sensor

12 position function switch

ABS warning light (MIL) See Variations

Specific wiring harness

Brake pipe fittings	See Variations
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Fuses	See Variations
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Fuse mounting bracket	
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Required Content

Brake pipes not included, available at Bosch Motorsport dealer
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Communication

CAN via Com Interface MSA-Box II

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Ordering Information

ABS M5 Kit Porsche 997 Cup

Order number **F02U.V05.289-20**

ABS M5 Kit Porsche 991 Cup Gen 1

2015 Model Year

Order number **F02U.V05.289-18**

ABS M5 Kit Porsche 991 Cup Gen 2

2017 Model Year

Order number **F02U.V05.289-19**