The ABS M5 Kit Clubsport is developed for the operation in front-, rear- or 4-wheel drive vehicles. A generic wiring harness is included in the kit. This enables us to provide the kit with a significantly reduced price in comparison to the standard ABS M5 Kit with individual loom.

The ABS M5 Kit Clubsport 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

#### Mechanical Data
- Hydraulic unit with attached ECU
- 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

#### 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
- Power consumption Electronics: 8 W

#### Inputs
- 4 active wheel speed DF11
- Brake pressure (front brake circuit / rear brake circuit)
- Longitudinal acceleration, lateral acceleration, yaw rate (MM5.10 sensor)
- 11 adjustment settings applicable for OEMs

- 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 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

<table>
<thead>
<tr>
<th>Item</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydraulic unit with attached ECU</td>
<td>About 1,910 g</td>
</tr>
<tr>
<td>2 pressure sensors</td>
<td>About 40 g/each</td>
</tr>
<tr>
<td>Yaw/acceleration sensor</td>
<td>About 60 g</td>
</tr>
<tr>
<td>12 position function switch</td>
<td>About 50 g</td>
</tr>
<tr>
<td>4 wheel speed sensors DF11 standard</td>
<td>About 50 g/each</td>
</tr>
<tr>
<td>ABS warning light (MIL)</td>
<td>About 50 g</td>
</tr>
<tr>
<td>Vehicle specific wiring harness with motorsport connectors</td>
<td>Depends on version</td>
</tr>
<tr>
<td>Mounting and vibration-damping boards</td>
<td>About 80 g</td>
</tr>
<tr>
<td>Mounting board for hydraulic unit</td>
<td>212 g</td>
</tr>
</tbody>
</table>

### Optional Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data logger C 70</td>
<td>F 02U V02 302-01</td>
</tr>
<tr>
<td>Display DDU 9</td>
<td>F 02U V02 300-02</td>
</tr>
<tr>
<td>Communication interface MSA Box II</td>
<td>F 02U V00 327-02</td>
</tr>
<tr>
<td>Wheel speed signal splitter with 1 motorsport connector</td>
<td>F 02U V01 928-01</td>
</tr>
</tbody>
</table>

### Ordering Information

**ABS M5 Kit Clubsport DF11i, 500 KBa-ad**
Order number: F 02U V05 291-01

**ABS M5 Kit Clubsport DF11i, 1 KBa-ad**
Order number: F 02U V05 292-01

**ABS M5 Kit Clubsport DF11S, 500 KBa-ad**
Order number: F 02U V05 293-01

**ABS M5 Kit Clubsport DF11S, 1 KBa-ad**
Order number: F 02U V05 294-01