



PARTS APPROVAL



Parts Approval
Nr. / No. 1347/11 vom / of 23.09.2011
TGA-Art 8.1

**on the compliance of a vehicle when vehicle parts are properly installed
and fitted to the car in accordance with § 19 Par. 3 No. 4 StVZO**

Modification : Continuously [adjustable suspension system](#) for lowering of car body by approx. 30-55 mm at front axle and by approx. 25-50 mm at rear axle

Part type(s) : **180 20 065**
180 20 075

Manufacturer : 
KW automotive
Aspachweg 14
D-74427 Fichtenberg

for the vehicle (type) : BMW Mini (Mini-N, UKL-C, UKL-K)

max. axle load : VA (front axle) 935 kg
HA (rear axle) 855 kg

0. Instructions for vehicle owner

Performance and confirmation without delay of modification acceptance

With the modification the type approval of the vehicle will expire if the modification acceptance provided for in StVZO § 19 Par. 3 is not performed and confirmed without delay or if conditions laid down are not complied with.

After performance of the technical modification, the vehicle must be presented without delay together with the present TÜV parts approval to an officially recognised inspector at a Technical Inspection Centre or to an inspection engineer from an officially recognised inspection organisation to perform and confirm the specified modification acceptance.

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Compliance with Conditions and Notes

The Conditions and Notes given in III. and IV. must be complied with.

Availability of documents

After the acceptance procedure the certificate with confirmation of the modification acceptance must be carried in the car and presented to authorised persons on demand; this will not apply once the vehicle documents have been amended.

Amendment of vehicle documents

The vehicle owner must apply, in accordance with the provision in the confirmation of modification acceptance, for the competent licensing authority to amend the vehicle documents (vehicle registration documents).

Further conditions can be found in the confirmation of modification acceptance.

I. Field of application

Part type: 180 20 065

Vc-manufacturer	Trade name	Vehicle type	Variants/Versions	Type approval
BMW	Mini Cooper Clubman, Mini One Clubman, Mini Cooper Cabrio, Mini One Cabrio	Mini-N	alle / all	e1*?/?*0343*..
		UKL-C		e1*2007/46*0369*..
		UKL-K		e1*2007/46*0370*..

Part type: 180 20 075

Vc-manufacturer	Trade name	Vehicle type	Variants/Versions	Type approval
BMW	Mini One D Clubman, Mini Cooper D Clubman, Mini Cooper S Clubman, Mini Cooper SD Clubman, Mini JCW Clubman, Mini Cooper S Cabrio, Mini JCW Cabrio, Mini Cooper D Cabrio, Mini Cooper SD Cabrio	Mini-N	alle / all	e1*?/?*0343*..
		UKL-C		e1*2007/46*0369*..
		UKL-K		e1*2007/46*0370*..

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The part of the EC type approval number showing *?/?* merely document the current status of the framework directive 70/156/EEC and are of no significance for this parts approval as long as the parts of the vehicle which are relevant to the lowering of the bodywork have not changed.

II. Description of the modification

Front axle (Teiletyp / Part type: **180 20 065**)

	Pre spring	Main spring
Marking	<i>non existent</i>	2007 <i>imprinted</i>
Corrosion protection		<i>EPS-powder coating</i>
Wire size <i>Outer</i> diameter <i>top</i> <i>middle</i> <i>bottom</i>		11,5 mm 140 mm 123 mm 85 mm
Untensioned height		220 mm
Number of coils		6
Coil shape		<i>Cone</i> <i>head(s) baselined</i>
Spring characteristic		progressiv

	Spring cup seat (top)	Spring cup seat (bottom)
Max. diameter	<i>OEM part</i>	82 mm
Min. diameter		52,5 mm
Diameter rest		61 mm
Height		24 mm

	Strut	Shock absorber
Specification	<i>Infinitely adjustable cup seat</i>	<i>Sport shock absorber</i>
Marking	201 1021	---

	Rubber or polyurethane foam element
Bump stop	
High/Diameter	50/50 mm
Bump travel	<i>Extended by 40 mm</i>

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Vorderachse / Front axle (Teiletyp / Part type: **180 20 075**)

	Pre spring	Main spring
Marking	<i>non existent</i>	2027
Corrosion protection		<i>imprinted EPS-powder coating</i>
Wire size <i>Outer</i> diameter <i>top</i> <i>middle</i> <i>bottom</i>		12,8 mm 141 mm 123 mm 85 mm
Untensioned height		230 mm
Number of coils		6
Coil shape		<i>Cone head(s) baselined</i>
Spring characteristic		progressiv

	Spring cup seat (top)	Spring cup seat (bottom)
Max. diameter	<i>OEM part</i>	82 mm
Min. diameter		52,5 mm
Diameter rest		61 mm
Height		24 mm

	Strut	Shock absorber
Specification	<i>Infinitely adjustable cup seat</i>	<i>Sport shock absorber</i>
Marking	201 1021	---

	Rubber or polyurethane foam element
Bump stop	
High/Diameter	50/50 mm
Bump travel	<i>Extended by 40 mm</i>

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Rear axle

	Pre spring	Main spring
Marking	<i>non existent</i>	50-200* <i>imprinted</i>
Corrosion protection		<i>EPS-powder coating</i>
Wire size <i>Outer</i> diameter <i>top</i> <i>middle</i> <i>bottom</i>		10 mm -- mm 82 mm -- mm
Untensioned height		200 mm
Number of coils		7
Coil shape		<i>Cylinder</i> <i>head(s) baselined</i>
Spring characteristic		linear

	Spring cup seat (top)	Spring cup seat (bottom)
Max. diameter	80 mm	82 mm
Min. diameter	10 mm	52,5 mm
Diameter rest	61 mm	61 mm
Height	27 mm	24 mm

	Strut	Shock absorber
Specification	<i>Infinitely adjustable cup seat</i>	<i>Sport shock absorber</i>
Marking	201 1121	---

	Rubber or polyurethane foam element
Bump stop	
High/Diameter	50/50 mm
Bump travel	<i>Extended by 25 mm</i>

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III. Notes on possible combination with other modifications

III. 1 Wheel/tyre combinations

There are no technical objections against the use of all O. E. wheel/tyre combinations.

If other wheel-/ tyre combinations are used, the examination in accordance with § 21 German Road Traffic Licensing Code - StVZO must be carried out by an officially recognised expert at a technical inspection station.

III. 2 Aerodynamic devices, special exhaust systems etc.

The dynamic ground clearance is decreased by the provision of special springs/dampers which increase the bump travel of the front and rear axle. In the case of the test vehicle, the min. ground clearance of 80 mm is complied with (below front axle). Care must be taken when driving over humps, barriers and heightened paving or road surfaces.

If special spoilers, aprons and exhaust systems are mounted, attention must be paid to the decreased overhang angle (driving up ramps etc.).

IV. Conditions and Notes

Conditions and notes for the installation shop and modification acceptance

Mounting of the vehicle bodywork components will be performed in accordance with the vehicle manufacturer's specifications which must be included in the delivery and should be carried out by a specialist shop.

The headlight adjustment has to be checked.

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The kinematics of the wheel suspension system and steering (e.g. toe-in, camber, spread, axle-pin rake) must be checked after the conversion to establish adherence to the values specified by the manufacturer for the series vehicle and they must if necessary be adjusted.

The record of check and adjustment has to be provided for the modification acceptance.

The bump stops (rubber or polyurethane foam element) must correspond to the descriptions of this report. Additional travel limiters are not allowed.

Use of the lowering kit on vehicles with levelling system is not permitted.

The vehicle height must be laid down in the vehicle documents in box 20. The precise measure of the lowering will depend on the specific vehicle tolerances, tyre size and vehicle version.

The adjustments must be adhered to the following specifications.

<i>front axle</i>	<i>min.</i>	190 mm	<i>Distance from the spring rest to the nearest fastening screw</i>
	<i>max.</i>	215 mm	
<i>rear axle</i>	<i>min.</i>	185 mm	
	<i>max.</i>	210 mm	

In addition the distance from the wheel centre to the wheelhouse rim shall be:

<i>front axle: min. 325 mm</i>	<i>rear axle: min. 325 mm</i>
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Amendment of vehicle documents:

Amendment of the vehicle documents is only necessary the next time the approval authority has to do with the vehicle documents.

V. *Basis of tests and test results*

*The test vehicle and the modification parts were subjected to a test in accordance with the test conditions regarding raising / lowering of vehicles contained in VdTÜV Merkblatt 751 (08.2008).
The test conditions were fulfilled.*

VI. *Annex: none*

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VII. Concluding certification

It is hereby certified that the vehicles described under field of application satisfy the regulations of StVZO in the current version after modification and performed and confirmed modification acceptance, provided the conditions/notes given in the present TÜV approval are observed.

*The manufacturer KW automotive GmbH maintains a quality management system according to ISO 9001: 2008 (Certificate Registration No.: 12 102 22913 TMS).
The requirements of annex XIX to StVZO (2.1) are satisfied.*

The parts approval may only be reproduced and passed on by the manufacturer in its unabbreviated form.

The TÜV parts approval shall cease to be valid if technical modifications are made to the vehicle part or if modifications made to the vehicles described affect use of the part and in the case of any changes to the statutory specifications.