

Manufacturer : Heinrich Eibach GmbH
 object tested : Special suspension springs
 type : E20-20-031-01-22; -02-22

Compliance with instructions and conditions:

The instructions and conditions 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 available 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:

Weitere Festlegungen sind der Bestätigung der ordnungsgemäßen Änderung zu entnehmen.
 The vehicle owner must apply, in accordance with the provision in the confirmation concerning correct modification, for the competent licensing authority to amend the vehicle documents.
 Further conditions can be found in the confirmation of correct modification.

I. Area of use

Vehicle manufacturer	Bayer. Mot. Werke, BMW	
model: sales name	3 series	3er Reihe Touring, (F31) 3 series touring
Type of vehicle	3L	3K
EC type approval No. *)	e1*2007/46*0314*ab Nachtrag 05 from amendment 05 on	e1*2007/46*0315*ab Nachtrag 06 from amendment 06 on
model: sales name	3 series Gran Turismo (F34)	4 series Coupe (F32)
Type of vehicle	3-V	3C
EC type approval No. *)	e1*2007/46*0559*..	e1*2007/46*0316*ab NT08

*with regard to Directive 70/156/EEC or 2007/46/EC as last amended by Directive xxxx/xx/EC

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I. Limitations of area of use

Spring version front for permissible axle loads	21-20-031-01-VA up to max. 950 kg
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Spring version rear for permissible axle loads	21-20-031-01-HA up to max 1160 kg	21-20-031-02-HA up to max 1265 kg
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further limitations: not for vehicles with ride-height control system

II. Description of the part / Scope of modification

Lowering of the body of about 40 mm (4 series Coupe about 25 mm) by means of exchanged suspension springs.

Design	Cylindrical coil spring
identification :	manufacturer´s-logo, date of manufacture and spring version
Type / Location of marking	version printed on area of centre coil
Surface protection	powder coating

Technical data

FRONT AXLE

Identification	21-20-031-01-VA
Characteristic	lineare
Outer diameter	156
Wire diameter	12,5
untensioned length	243
Total number of coils	4,5

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Technical data

REAR AXLE

	21-20-031-01-HA	21-20-031-02-HA
Identification		
<i>Characteristic</i>	lineare	lineare
<i>Outer diameter</i>	92	94
<i>Wire diameter</i>	13,75	14,0
<i>untensioned length</i>	281	299
<i>Total number of coils</i>	9,5	9,75

description of

Bumpstops

	<i>Front axle</i>	<i>Rear axle</i>
<i>System: type of part / system:</i>	exchange PUR bumpstops	Original PUR bumpstops 80/67-52
<i>height / ∅</i>	75/73-54	ww. 70/67-54

III. Notes on possible combination with other modifications

III.1 Custom shock absorbers

There is no reason to object to the use of customer shock absorbers in combination with lowering springs described, provided that the following conditions are met:

- The series bump stops (rubber springs) must be kept
- The rebound travel may be shortened by the amount of the lowering, other functional dimensions must be kept.
- The series ride clearances may not be changed by the custom shock absorbers
- Spring seats may not be adjustable in height

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III.2 Wheel/tyre combinations

O.E. wheel/tyre combinations

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

Special wheel/tyre combinations

There is also no technical reason to object to the use of special wheel/tyre combinations, provided the following conditions are met:

- *Special TÜV assessments or approvals have been obtained for the relevant wheel/tyre combination and the necessary conditions are met.*
- *The series bump travel limitation may not be modified as a result of conditions laid down in these test reports (e.g. change of O.E. bump stops or installation of additional bump travel limiters).*

III.3 Aerodynamic devices, special exhaust systems etc.

The ground clearance in unladen state is reduced by the installation of special springs. It is the approximate equivalent of that of a partially laden series vehicle. When the vehicle is loaded to the admissible axle loads the ground clearance does not change as compared to the series vehicle. If spoilers, rear aprons and special exhaust systems are mounted, however, the reduced angle of slope must be noted (travelling on ramps etc.).

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III.4 Trailer coupling

The specified minimum height of the coupling ball above the road surface with the permissible total weight of the vehicle (acc. DIN 74058) is 350 mm.

IV. Notes and conditions

Notes and conditions for the installation shop and modification acceptance

- IV.1** *Headlamp adjustment must be checked.*
- IV.2** *After modification an axle alignment must be carried out on the vehicle.*
- IV.3** *The bump stops must correspond to the descriptions in this report(see Point II). At axle 1 the serious bumpstops must be exchanged for the delivered ones.*
- IV.4** *The limitations with regard to the area of use (see Point I) must be observed.*
- IV.5** *In the case of vehicle models with spring-travel-dependent brake pressure reducers, it is necessary to check and where relevant correct the setting in accordance with the workshop manual.*

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Notes and conditions for mounting:

Disassembly and installation must be carried out in accordance with the manufacturer's instructions as contained in the workshop manual.

Amendment of vehicle documents:

Correction of the vehicle documents is necessary, but has been postponed.
 The competent licensing authority must be notified by the vehicle owner accordingly the next time they deal with the vehicle documents. The following example is suggested for the entry:

field	entry
height	to remeasure
	MODIFIED SUSPENSION SPRINGS, Heinrich Eibach GmbH, TYPE: E20-20-031-01-22, IDENTIFICATION F/R: 21-20-031-01-VA / 21-20-031-01-HA 21-20-031-02-HA WITH EXCHANGE BUMPSTOP AT FRONT, BUMP TRAVEL ORIGINAL ***

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.
 The test conditions were fulfilled.

VI. Annexes

none

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VII. Concluding certification

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

The manufacturer (owner of the TÜV certificate) has furnished evidence (Reg-Nr.: 44102066475) that he maintains a quality system in accordance with Annex XIX, Section 2 StVZO.

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