Original BMW Parts and Accessories.
Installation Instructions.

M Performance Suspension Retrofit Kit.

BMW M2 Coupé (G87)
BMW M3 Saloon (G80)
BMW M3 Touring (G81)
BMW M4 Coupé (G82)
BMW M4 Convertible (G83)

Retrofit kit number

31 30 5 A2D 979	Sports suspension retrofit kit (for G80, G82 and G87)
31 30 5 A87 C79	Sports suspension retrofit kit (for G81 and G83)

Installation time
The installation time is **approx. 8.0 hours**. This may vary depending on the condition of the car and its equipment package.

The car **must** be coded to the latest I level before starting the modification work. Different programming times may be necessary depending on the age of the car and any work already carried out on it. ◀

The quoted installation time does not include time spent on optical measurement, adjusting the chassis and programming/coding work. This may vary depending on the condition of the car and its equipment package.

The total costs for the additional work required must be included in the calculation of retrofitting costs (no charges may be made through the warranty).

Important information
These installation instructions are primarily designed for use within the BMW dealership organisation and by authorised BMW service companies.

These installation instructions are intended for use by qualified specialist staff trained on BMW vehicles with the relevant expert knowledge.

All work must be completed using the latest BMW repair manuals, wiring diagrams, servicing manuals and work instructions, in a logical order, using the prescribed tools (special tools), and observing current health and safety regulations.

Please do not archive the printout of these installation instructions. The current version can be found in the EPC (electronic parts catalouge).

Following the completion of the technical modification, the car must immediately be taken, along with the part report, to an officially appointed expert or examiner at a technical testing centre or to a testing engineer within an officially recognised supervisory organisation for completing and confirming the specified modification acceptance.

The amendment of the car's documents by the relevant licensing authority must be requested by the car's owner on the basis of the specification in the modification acceptance confirmation.

If you experience installation or functional problems, restrict troubleshooting to approx. 0.5 hours for mechanical work and 1.0 hour for electrical work.
To avoid unnecessary extra work and/or costs, please send an inquiry to the technical parts support team.

Quote the following information:

– VIN,

– retrofit kit part number,

– a detailed description of the problem,

– any work already carried out.

Please do not archive the printout of these installation instructions. The current version can be found in the EPC (electronic parts catalogue).

Pictograms

Denotes instructions that draw your attention to dangers.

Denotes instructions that draw your attention to special features.

◂ Denotes the end of the instruction or warning text.

Installation information

All illustrations show LHD cars; proceed similarly on RHD cars.

Some of the installation is shown only on the left-hand side of the car, proceed similarly on the right-hand side of the car.

After the retrofit kit has been installed, a standard chassis measurement must be carried out with DIN loading as described in **ISTA/AIR No. 31 00 ...**.

All fine-threaded nuts must be replaced. ◂

Use only the springs included with this retrofit kit. Other springs have not been tested or approved.

Special tools required

0 492 417, plate from tool kit, part number 0 492 415
0 493 644, sleeve from tool kit, part number 0 491 939
0 495 343, half-shell from tool kit, part number 0 495 339
5 A36 B04, spring plate, top
5 A36 B05, spring plate, bottom
0 494 933, spring tensioner
2 405 829, installation tool
5 A4A 186, adapter (for cars with all-wheel drive only)

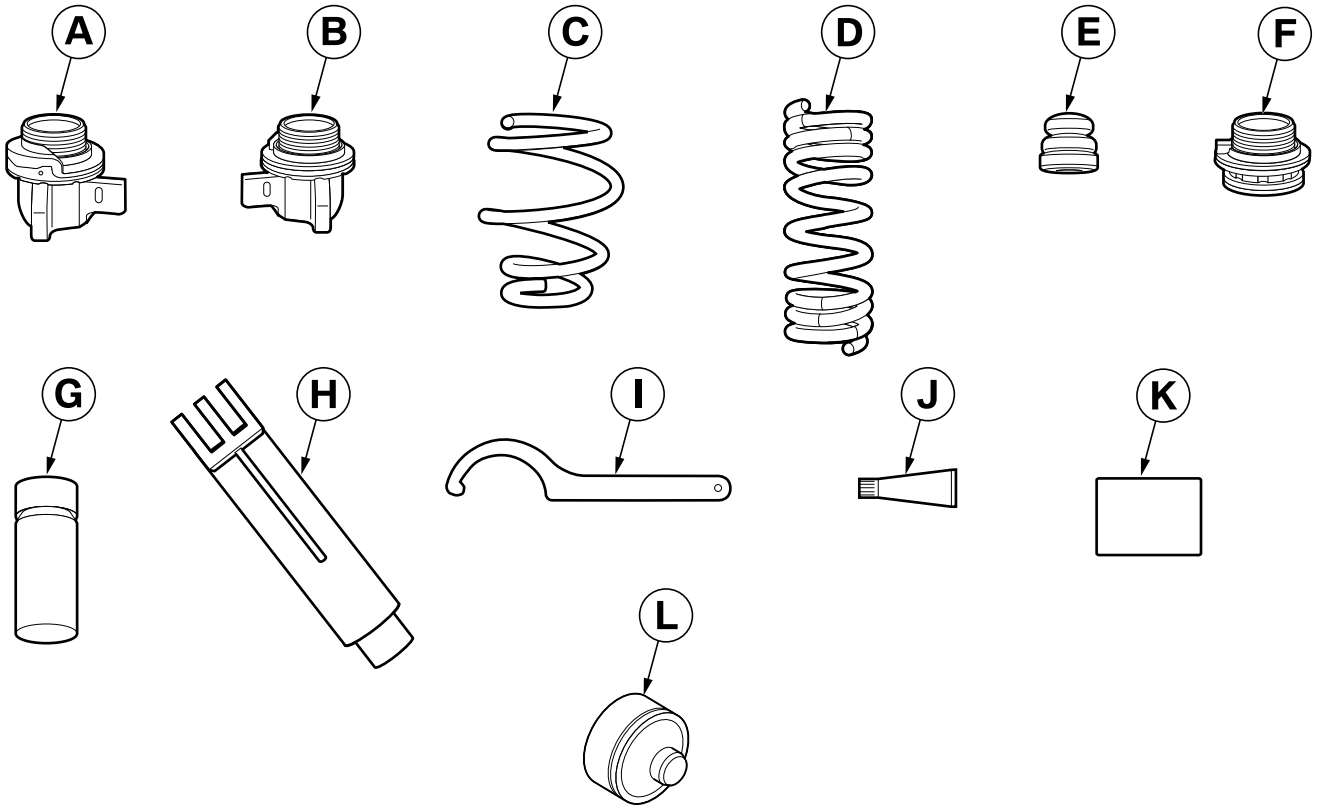
Information to be supplied to the customer

Print out and complete the attached workshop document.

Print the TÜV parts report and give it to the customer together with the completed workshop certificate. ◂

Table of contents

1. Parts list



G80 0001 Z

Legend

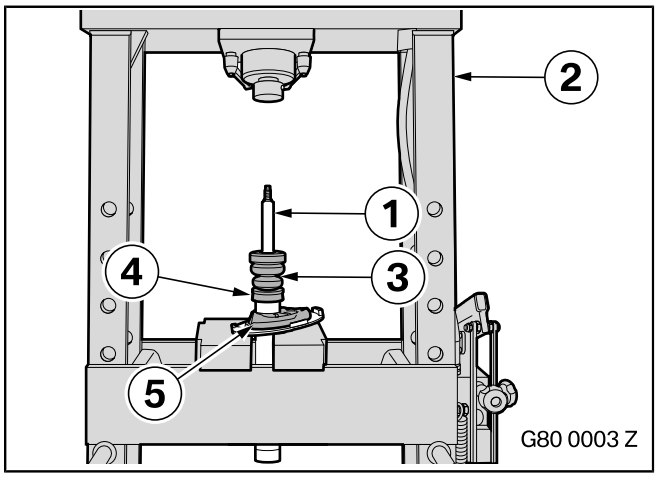
A Threaded sleeve and spring plate, right
B Threaded sleeve and spring plate, left
C Front coil spring (2 x)
D Rear coil spring (2 x)
E Additional front spring (2 x)
F Rear spring seat (2 x)
G Additional rear spring (2 x)
H Shock absorber tool
I Wrench, small
J Tampering indicator sealant
K Door sticker
L Adapter (for cars with all-wheel drive only, not supplied with the retrofit kit)

2. Preparatory work

	ISTA/AIR No.
Program/code the control unit(s) (I level update)	61 00 730
Disconnect all negative battery cables	61 20 900
The following components must be removed first of all	
Front and rear wheels	36 10 360
Front left and right spring strut	37 11 032
Rear left and right shock absorber	37 12 310
Rear left and right coil spring	33 53 000

3. BMW M Performance suspension installation

The installation is shown only on the left hand side of the car, proceed similarly on the right hand side of the car. ◀

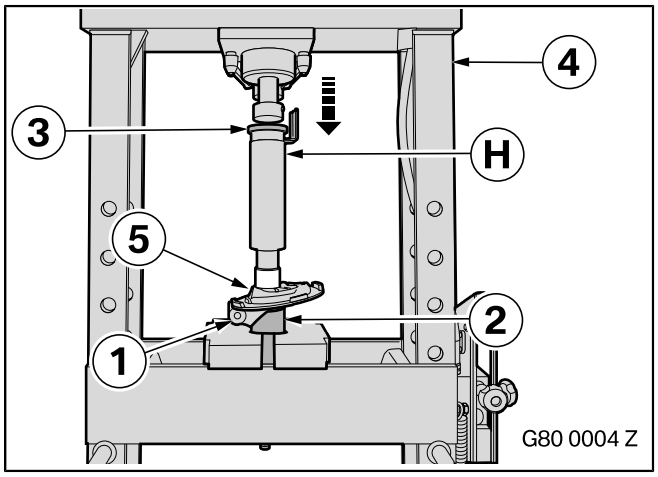


Clamp the standard front shock absorber (1) in the hydraulic press (2) as shown.

The protective cap (4) will be reused and must therefore be removed without being damaged. ◀

The additional spring (3) and spring support (5) are no longer required. ◀

Remove the additional spring (3), protective cap (4) and spring support (5) from the standard front shock absorber (1) using suitable tools.



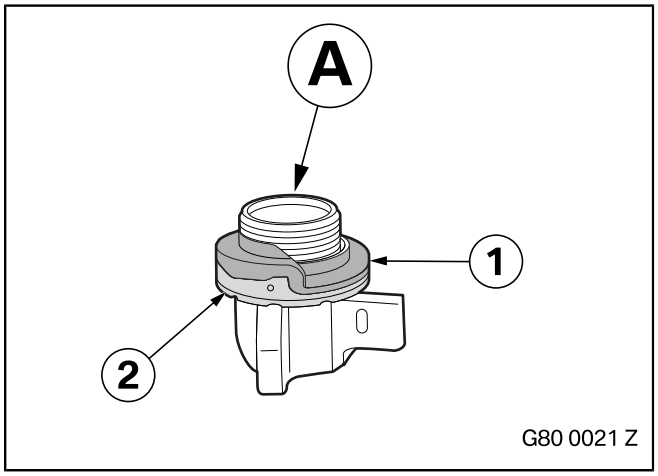
Position the standard front shock absorber (1) centrally in the hydraulic press (4) as shown.

Support the standard front shock absorber (1) as shown using the half-shell 0 495 343 (2).

Place the shock absorber tool **H** onto the standard front shock absorber (1).

Place the plate 0 492 417 (3) as shown on the shock absorber tool **H**.

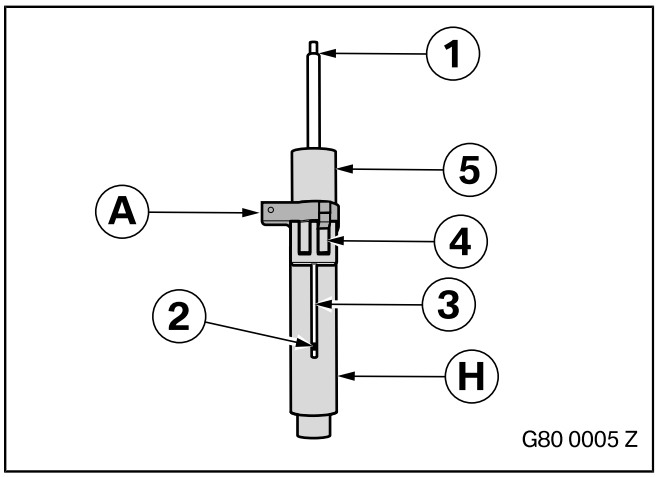
Place the hydraulic press (4) on the plate (3) and increase the pressure until the shock absorber plate (5) is released by the standard front shock absorber (1).



The spring support (1) and adjustment ring (2) will be reused and must therefore be removed without being damaged. ◀

Pull the spring support (1) off the threaded sleeve **A**.

Remove the adjustment ring (2) from the threaded sleeve **A**.



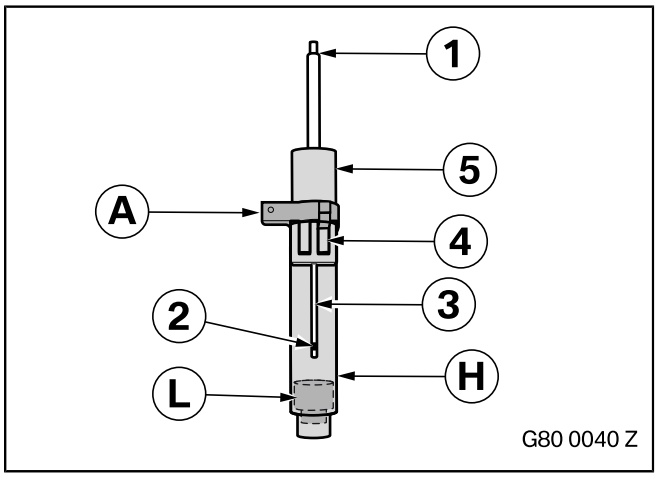
Apply the installation tool 2405829 to the following components:
- Shock absorber tube at the press position
- Internal sleeve
- O-ring ◀

On the left-hand shock absorber, the countersink on the pendulum support of the threaded sleeve **A** must point to the right.

On the right-hand shock absorber, the countersink on the pendulum support of the threaded sleeve **B** must point to the left. ◀

Guide the standard front shock absorber (1) from above into the shock absorber tool **H**, inserting the lug (2) into the guide (3) in the shock absorber tool **H**. Position the threaded sleeve **A** to the left or right of the guide (4), depending on the installation direction.

Place the sleeve 0 493 644 (5) with the larger opening at the bottom on the threaded sleeve **A**.



Cars with all-wheel drive only

Apply the installation tool 2405829 to the following components:
- Shock absorber tube at the press position
- Internal sleeve
- O-ring ◀

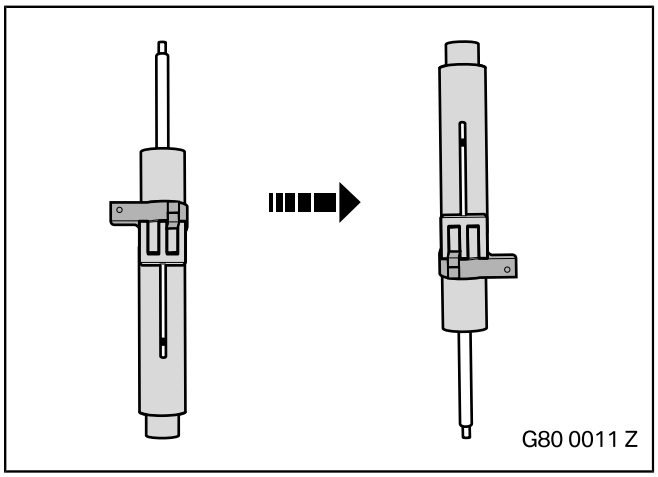
On the left-hand shock absorber, the countersink on the pendulum support of the threaded sleeve **A** must point to the right.

On the right-hand shock absorber, the countersink on the pendulum support of the threaded sleeve **B** must point to the left. ◀

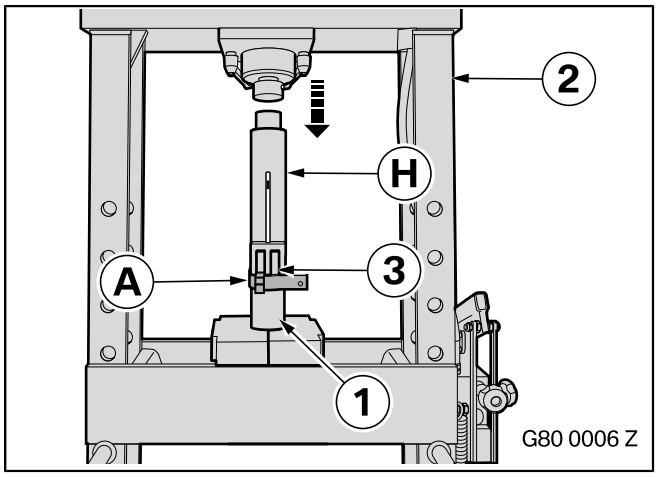
Insert the adapter **L** from above into the shock absorber tool **H** as shown.

Guide the standard front shock absorber (1) from above into the shock absorber tool **H**, inserting the lug (2) into the guide (3) in the shock absorber tool **H**. Position the threaded sleeve **A** to the left or right of the guide (4), depending on the installation direction.

Place the sleeve 0 493 644 (5) with the larger opening at the bottom on the threaded sleeve **A**.



All cars
Hold the complete assembly firmly, and turn it through 180°.



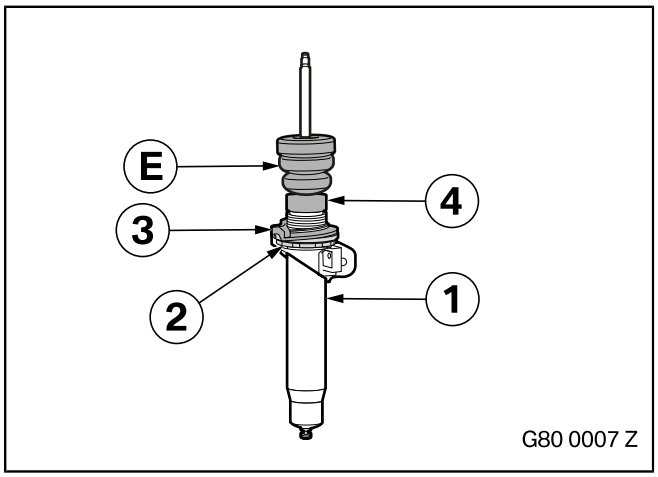
The press force is 15 kN - 20 kN. ◀

The gap (3) between the shock absorber tool **H** and the threaded sleeve **A** should be a maximum of 2 mm and a minimum of 0.1 mm after it has been pressed into position. ◀

Place the assembly (1) on the holding plates of the hydraulic press (2) as shown.

Place the hydraulic press (2) on the shock absorber tool **H** and increase the pressure until the threaded sleeve **A** has been correctly pressed into position.

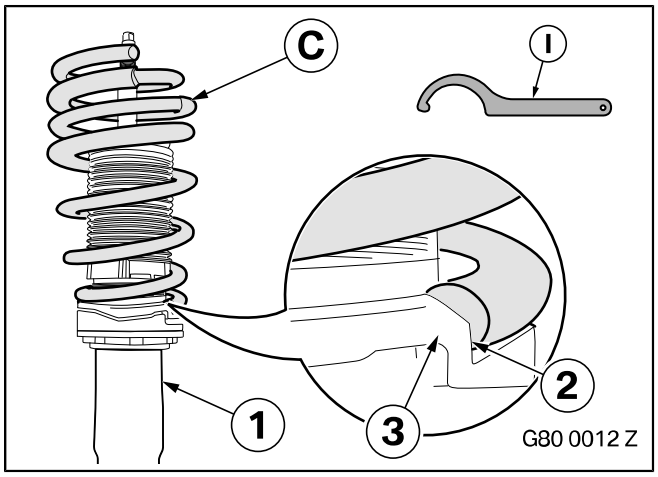
4. Installation and adjustment



Front axle
Screw the adjustment ring (2) back onto the threaded sleeve **A** as far as possible.

Place the spring support (3) back onto the threaded sleeve **A**.

Place the protective cap (4) and additional front spring **E** on the standard front shock absorber (1).



Note the installation position of the front coil spring **C**.

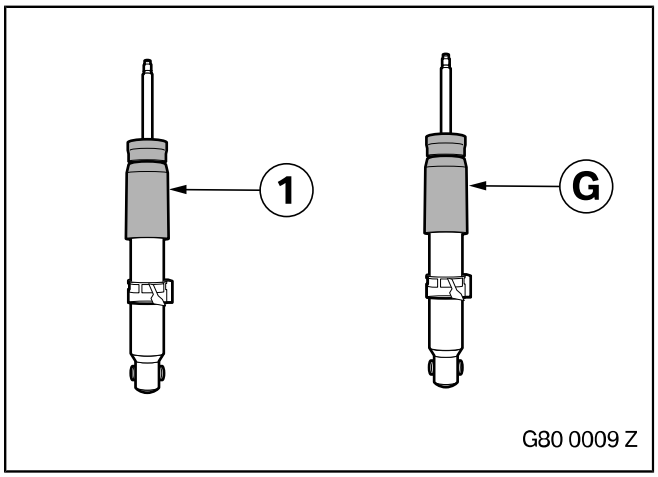
Ensure that coil spring **C** is positioned on the edge (2) of the spring support (3), as shown. ◀

Before installation, set a residual thread of around 15 mm by turning the adjustment ring with the hook spanner **I**. ◀

Place the coil spring **C** onto the standard front shock absorber (1) as shown.

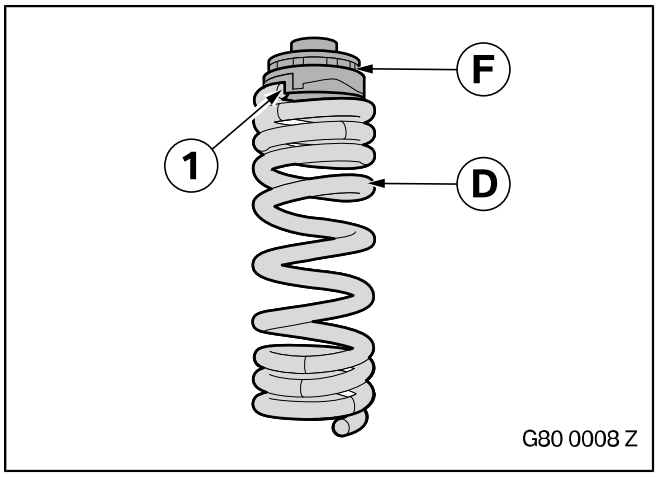
Install the standard support bearing as described in **ISTA/AIR No. 37 11 032**, but without the spring tensioner.

Complete and install the front spring strut as described in **ISTA/AIR No. 37 11 032**.



Rear axle
Replace the standard rear additional shock absorber (1) with the additional spring **G**.

Complete and install the standard rear shock absorber (1) as described in **ISTA/AIR No. 32 12 310**.



Note the installation position (1) of the rear coil spring **D**.

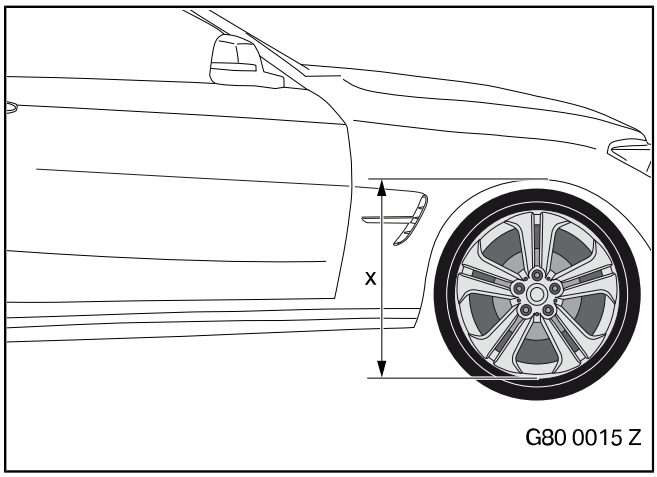
Ensure that the rear coil spring **D** is positioned on the edge (1) of the rear spring seat **F**, as shown. ◀

Before installation, set a residual thread of around 10 mm by turning the adjustment ring. ◀

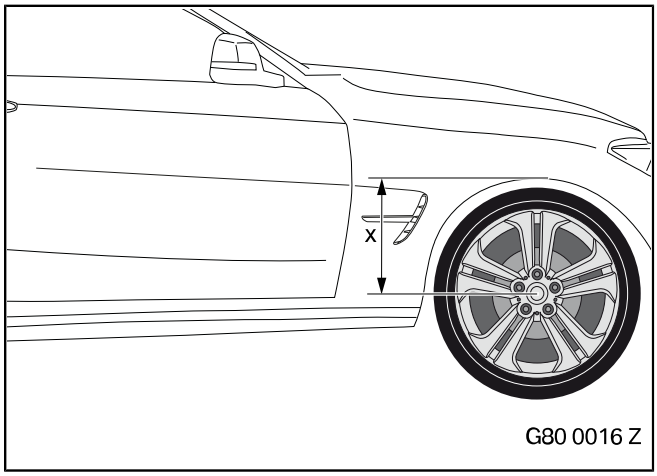
The coil spring **D** may be compressed by a maximum of 20 mm. ◀

Remove the top spring support and replace it with the rear spring seat **F**.

Install the rear coil spring **D** as described in **ISTA/AIR No. 33 53 000**, but using the special tool for the top spring plate 5 A36 B04, bottom spring plate 5 A36 B05 and spring tensioner 0 494 933.



Front axle dimensions for G80, G81, G82, G83 and G87	
Tyre size (inches)	x (mm)
18	615
19	628
20	641



Front axle dimensions for G80, G81, G82, G83 and G87	
Tyre size (inches)	x (mm)
18	367
19	367
20	367

Front axle

When adjusting the height, ensure that the residual threads on the left and right are even. ◀

The following dimensions should be measured under the following vehicle loading conditions:
- 2 x 68 kg on the front seats
- 2 x 7 kg in the boot
- Full fuel tank ◀

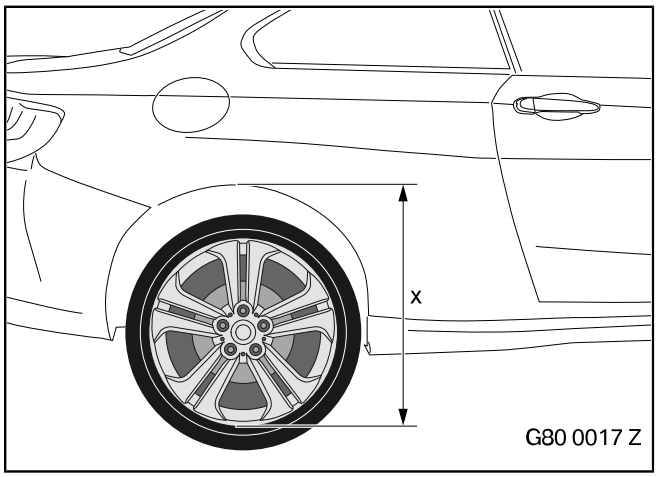
Measure the car height **x** (from the lower rim edge vertically to the wheel arch).

Adjust the car height **x** (**see table below**) on front right spring strut shock absorber and front left spring strut shock absorber.

The following dimensions should be measured under the following vehicle loading conditions:
- 2 x 68 kg on the front seats
- 2 x 7 kg in the boot
- Full fuel tank ◀

Measure the car height **x** (from the centre of the wheel vertically to the wheel arch).

Adjust the car height **x** (**see table below**) on front right spring strut shock absorber and front left spring strut shock absorber.



Rear axle dimensions for G80 and G81	
Tyre size (inches)	x (mm)
19	604
20	617
21	630

Rear axle dimensions for G82 and G83	
Tyre size (inches)	x (mm)
19	624
20	637
21	650

Rear axle dimensions G87	
Tyre size (inches)	x (mm)
19	625
20	638
21	651

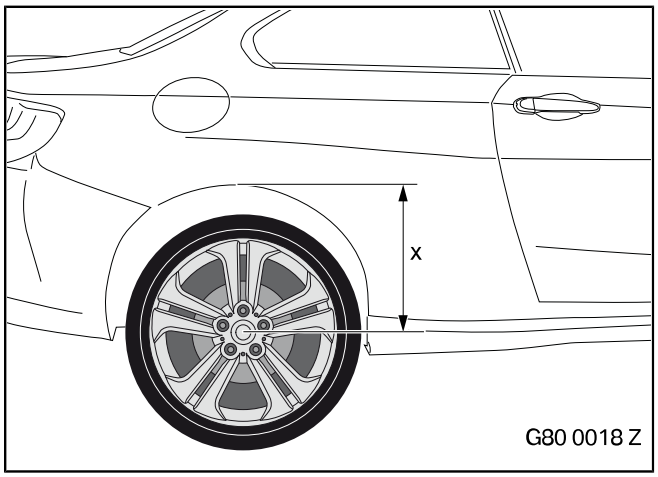
Rear axle

When adjusting the height, ensure that the residual threads on the left and right are even. ◀

Measure the car height **x** (from the bottom edge of the rim vertically to the wheel arch, minus **6 mm** if the flap is installed).

Adjust the car height **x** (**see table below**) on left and right rear spring seats **F**.

Then adjust the toe as described in **ISTA or AIR**.



Measure the car height **x** (from the centre of the wheel vertically to the wheel arch, minus **6 mm** if the flap is installed).

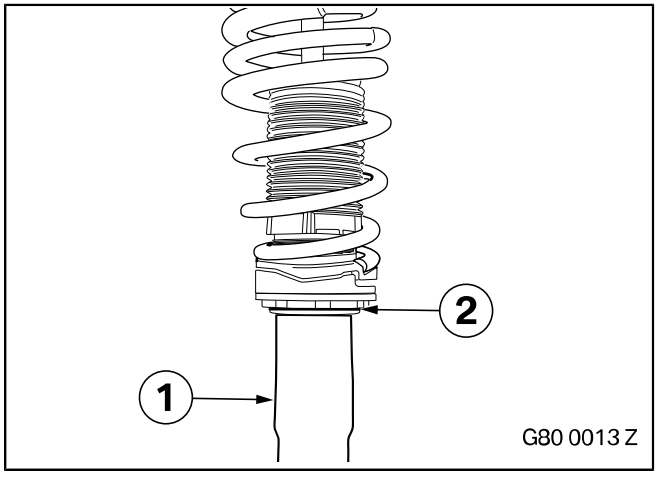
Adjust the car height **x** (**see table below**) on left and right rear spring seats **F**.

Then adjust the toe as described in **ISTA or AIR**.

Rear axle dimensions for G80 and G81	
Tyre size (inches)	x (mm)
19	343
20	343
21	343

Rear axle dimensions for G82 and G83	
Tyre size (inches)	x (mm)
19	363
20	363
21	363

Rear axle dimensions G87	
Tyre size (inches)	x (mm)
19	364
20	364
21	364

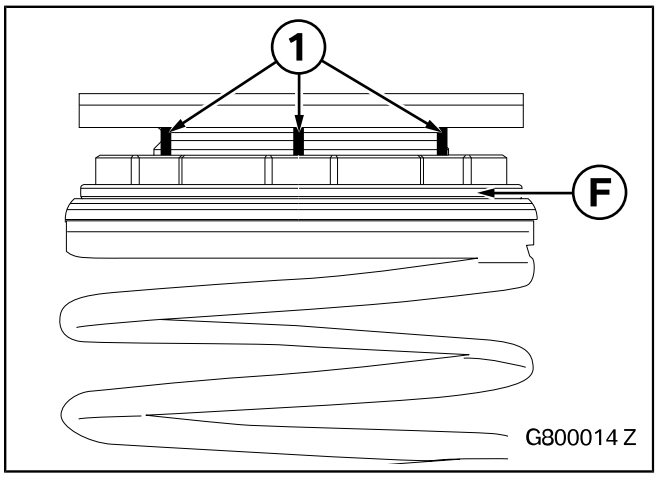


Front axle

Mark the final setting on front left spring strut shock absorber (1) by means of a colour marking (2) (tampering indicator sealant) on the thread.

Proceed in the same way on the front right spring strut shock absorber.

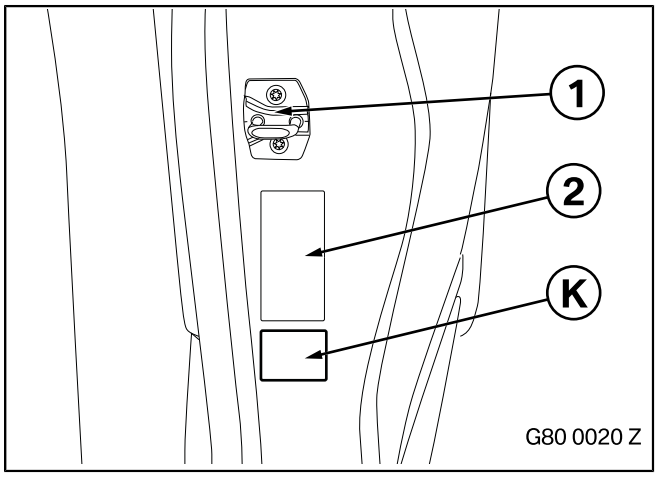
Tighten the grub screw in the blue adjustment ring by hand (not shown).



Rear axle
Mark the final setting on rear left spring strut shock absorber **F** with colour markings (1) (tampering indicator sealant) on the thread.

Tighten the grub screw in the blue adjustment ring by hand (not shown).

Proceed in the same manner on rear right spring seat **F**.



The bonding surfaces must be completely dry, clean, and free from wax or grease. ◀

Affix the door sticker **K** to the B pillar on the driver's side under the door lock (1). If there is already a sticker (2) in this position, affix the door sticker **K** below the sticker (2).

5. Concluding work and coding

The retrofit system does not require programming/coding.

- Connect the battery
- Conduct a function test
- Re-assemble the car
- Carry out steering angle adjustment
- Carry out a standard chassis measurement with DIN loading as described in **ISTA/AIR No. 32 00 150**
- Carry out a chassis measurement and adjust using the standard chassis adjustment data

Print out the attached workshop certificate, complete it and give it to the customer with the TÜV parts report. ◀

6. Workshop certificate

Workshop certificate
M Performance chassis

This confirms that the M Performance suspension has been fully installed on the car shown below as specified in installation instructions No. 01 29 5 A3B 6A7 and the TÜV parts report.

Part number

31 30 5 A2D 979	Sports suspension retrofit kit (for G80, G82 and G87)
31 30 5 A87 C79	Sports suspension retrofit kit (for G81 and G83)

Steering sensor adjustment completed: ☐
Chassis measurement completed: ☐
Headlights adjusted: ☐

Car model: _____

VIN: _____

Name and address of the vehicle keeper: _____
_____
_____
_____
_____

_____
Place, date

_____
Signature of person responsible

Dealership (company name/stamp)

über die Vorschriftsmäßigkeit eines Fahrzeugs bei bestimmungsgemäßem Ein- oder Anbau von Fahrzeugteilen gemäß § 19 Abs. 3 Nr. 4 StVZO
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

Änderungsumfang *Modification*	: Stufenlos verstellbares Fahrwerk (Sonderfedern mit Höhenverstellung) zur Tieferlegung des Fahrzeugaufbaus *Continuously adjustable suspension system (special springs with height adjustment on OEM strut) for lowering the car body*
Teile-Typ(en) *Part type(s)*	: **31 30 5 A2D 979** **31 30 5 A87 C79**
Hersteller *Manufacturer*	: BMW AG Werk Dingolfing Landshuter Str. 56 D-84130 Dingolfing
Fahrzeug Hersteller / Typ(en) *Vehicle Manufacturer / Type(s)*	: BMW M / G234M, G2M
max. zul. Achslasten *max. axle load*	: VA *(front axle)* 1160 kg HA *(rear axle)* 1275 kg

0. Hinweise für den Fahrzeughalter / *Instructions for vehicle owner*

Unverzügliche Durchführung und Bestätigung der Änderungsabnahme
Performance and confirmation without delay of modification acceptance

Durch die vorgenommene Änderung erlischt die Betriebserlaubnis des Fahrzeuges, wenn nicht unverzüglich die gemäß StVZO § 19 Abs. 3 vorgeschriebene Änderungsabnahme durchgeführt und bestätigt wird oder festgelegte Auflagen nicht eingehalten werden. / *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.*

Nach der Durchführung der technischen Änderung ist das Fahrzeug unter Vorlage des vorliegenden Teilegutachtens unverzüglich einem amtlich anerkannten Sachverständigen oder Prüfer einer Technischen Prüfstelle oder einem Prüfingenieur einer amtlich anerkannten Überwachungsorganisation zur Durchführung und Bestätigung der vorgeschriebenen Änderungsabnahme vorzuführen. / *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.*

Einhaltung von Auflagen und Hinweisen / *Compliance with Conditions and Notes*

Die unter III. und IV. aufgeführten Auflagen und Hinweise sind zu beachten.
The Conditions and Notes given in III. and IV. must be complied with.

Mitführen von Dokumenten / *Availability of documents*

Nach der durchgeführten Abnahme ist der Nachweis mit der Bestätigung über die Änderungsabnahme mit den Fahrzeugpapieren mitzuführen und zuständigen Personen auf Verlangen vorzuzeigen; dies entfällt nach erfolgter Berichtigung der Fahrzeugpapiere.
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.

Berichtigung der Fahrzeugpapiere / *Amendment of vehicle documents*

Die Berichtigung der Fahrzeugpapiere (Zulassungsbescheinigungen) durch die zuständige Zulassungsbehörde ist durch den Fahrzeughalter entsprechend der Festlegung in der Bestätigung der Änderungsabnahme zu beantragen.
The vehicle owner must apply, in accordance with the provision in the confirmation of modification acceptance, for the competent licensing authority to amend the veh. documents (vehicle registr. documents).

Weitere Festlegungen sind der Bestätigung der ordnungsgemäßen Änderung zu entnehmen.
Further conditions can be found in the confirmation of modification acceptance.

I. Verwendungsbereich / *Field of application*

Fz-Hersteller *Vehicle manufacturer*	**Handelsbez.** *Trade name*	**Fahrzeugtyp** *Vehicle type*	**Varianten/Versionen** *Variants and versions*	**Typgenehmigung** *Type approval*
BMW M	M2 Coupé	G2M	2WD	e1*2018/858*00211*..
	M3, M3 Competition, M3 Competition Touring, M4 Coupé, M4 Competition Coupé, M4 Competition Cabrio	G234M	2WD, xDrive	e1*2018/858*00003*..

Der mit *?/?* versehene Teil der EG-Betriebserlaubnisnummer dokumentiert lediglich den aktuellen Stand der Rahmenrichtlinie und hat für dieses Teilegutachten keinen Belang, solange die Fz nicht in Teilen verändert wurden, die für die Tieferlegung des Fahrzeugaufbaus relevant sind.
*The part of the EC type approval number showing *?/?* merely document the current status of the framework directive 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. Beschreibung des Änderungsumfangs / *Description of the modification*

Vorderachse / *Front axle*

	Vorspannfeder ***Pre spring***	**Hauptfeder** ***Main spring***
Kennzeichnung / *Marking*	nicht vorhanden *non existent*	31 33 5 A3B 692 aufgedruckt / *imprinted*
Korrosionsschutz / *Corrosion protection*		EPS – Pulverbeschichtet *EPS-powder coating*
Drahtstärke / *Wire size*		13 mm
Außendurchmesser oben / *top*		122 mm
Outer diameter mitte / *middle*		153 mm
unten / *bottom*		100 mm
Länge (ungespannt) / *Untensioned height*		205 mm
Windungszahl / *Number of coils*		4,1
Federform / *Coil shape*		Zylinder Ende(n) angelegt *Cylinder, end(s) aligned*
Federkennlinie / *Spring characteristic*		linear

	Federteller (oben) ***Spring cup seat (top)***	**Federteller (unten)** ***Spring cup seat (bottom)***
Durchmesser max. / *Max. diameter*	Serie *OEM part*	100 mm
Durchmesser Auflage / *Diameter rest*		71 mm
Höhe / *Height*		38 mm
Federhöhenverstellung *Spring height adjustment*	Stufenlos verstellbarer Federteller (Schraubhülse) *Infinitely adjustable cup seat (threaded bush)*	

	Federbein / *Strut*
Beschreibung / *Specification*	Serienfederbein mit Schraubhülse *OEM Strut with threaded bush*
Kennzeichnung / *Marking*	Serienkennzeichnung *OEM part marking*

Endanschlag / *Bump stop*	**Gummi- oder Hartschaumelement** ***Rubber or polyurethane foam element***
Höhe/Durchmesser / *High/Diameter*	65/72 mm
Einfederweg / *Bump travel*	vergrößert um / *extended by* 0 mm

Hinterachse / *Rear axle*

nur M2 Coupé, M3 Limousine, M4 Coupé / *only M2 coupe, M3 limousine, M4 coupe*

	Vorspannfeder ***Pre spring***	**Hauptfeder** ***Main spring***
Kennzeichnung / *Marking*	nicht vorhanden *non existent*	33 53 8 845 029 aufgedruckt / *imprinted*
Korrosionsschutz / *Corrosion protection*		EPS – Pulverbeschichtet *EPS-powder coating*
Drahtstärke / *Wire size*		14,25 mm
Außendurchmesser oben / *top*		93 mm
Outer diameter mitte / *middle*		105 mm
unten / *bottom*		89 mm
Länge (ungespannt) / *Untensioned height*		285 mm
Windungszahl / *Number of coils*		9,9
Federform / *Coil shape*		Zylinder Ende(n) angelegt *Cylinder, end(s) aligned*
Federkennlinie / *Spring characteristic*		progressiv

	Federteller (oben) ***Spring cup seat (top)***	**Federaufnahme (unten)** ***Spring support (bottom)***
Durchmesser max. / *Max. diameter*	86 mm	Serie *OEM part*
Durchmesser Auflage / *Diameter rest*	61 mm	
Höhe / *Height*	42 mm	
Federhöhenverstellung *Spring height adjustment*	Stufenlos verstellbarer Federteller (Schraubhülse) *Infinitely adjustable cup seat (threaded bush)*	

	Dämpfer / ***Shock absorber***
Beschreibung / *Specification*	Serie *OEM part*
Kennzeichnung / *Marking*	Serienkennzeichnung *OEM part marking*

Endanschlag / *Bump stop*	**Gummi- oder Hartschaumelement** ***Rubber or polyurethane foam element***
Höhe/Durchmesser / *High/Diameter*	56/67 mm
Einfederweg / *Bump travel*	vergrößert um / *extended by* 0 mm

Hinterachse / *Rear axle*

nur M3 Touring, M4 Cabriolet / *only M3 touring, M4 convertible*

	Vorspannfeder ***Pre spring***	**Hauptfeder** ***Main spring***
Kennzeichnung / *Marking*	nicht vorhanden *non existent*	33 53 8 862 168 aufgedruckt / *imprinted*
Korrosionsschutz / *Corrosion protection*		EPS – Pulverbeschichtet *EPS-powder coating*
Drahtstärke / *Wire size*		15 mm
Außendurchmesser oben / *top*		94 mm
Outer diameter mitte / *middle*		100 mm
unten / *bottom*		90 mm
Länge (ungespannt) / *Untensioned height*		295 mm
Windungszahl / *Number of coils*		9
Federform / *Coil shape*		Zylinder Ende(n) angelegt *Cylinder, end(s) aligned*
Federkennlinie / *Spring characteristic*		progressiv

	Federteller (oben) ***Spring cup seat (top)***	**Federaufnahme (unten)** ***Spring support (bottom)***
Durchmesser max. / *Max. diameter*	86 mm	Serie *OEM part*
Durchmesser Auflage / *Diameter rest*	61 mm	
Höhe / *Height*	42 mm	
Federhöhenverstellung *Spring height adjustment*	Stufenlos verstellbarer Federteller (Schraubhülse) *Infinitely adjustable cup seat (threaded bush)*	

	Dämpfer / *Shock absorber*
Beschreibung / *Specification*	Serie *OEM part*
Kennzeichnung / *Marking*	Serienkennzeichnung *OEM part marking*

Endanschlag / *Bump stop*	**Gummi- oder Hartschaumelement** ***Rubber or polyurethane foam element***
Höhe/Durchmesser / *High/Diameter*	56/67 mm
Einfederweg / *Bump travel*	vergrößert um / *extended by* 0 mm

III. Hinweise zur Kombinierbarkeit mit weiteren Änderungen
Notes on possible combination with other modifications

III. 1 Rad/Reifenkombinationen / *Wheel/tyre combinations*

Es bestehen keine technischen Bedenken gegen die Verwendung aller serienmäßigen Rad-/ Reifenkombinationen.
There are no technical objections against the use of all O. E. wheel/tyre combinations.

Bei der Verwendung von anderen Rad/Reifenkombinationen ist eine Begutachtung nach § 21 StVZO eines amtlich anerkannten Sachverständigen für den Kfz-Verkehr oder nach § 30 EG-FGV von einem Prüfingenieur eines anerkannten Technischen Dienstes erforderlich.
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 for motor vehicle traffic or a test engineer from a technical service recognized according to § 30 EG-FGV.

III. 2 Spoiler, Sonderauspuffanlagen usw.
Aerodynamic devices, special exhaust systems etc.

Beim Prüffahrzeug betrug die Bodenfreiheit mindestens 80 mm (unter der Vorderachse). Beim Überfahren von Bodenwellen, Schwellen und Aufpflasterungen ist entsprechend vorsichtig zu fahren. Nach dem Anbau von Sonderspoilern, -heckschürzen und Sonderauspuffanlagen ist der verringerte Überhangwinkel zu beachten (Befahren von Rampen etc.).
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. Auflagen und Hinweise / *Conditions and Notes*

Auflagen für den Einbaubetrieb und die Änderungsabnahme
Conditions and notes for the installation shop and modification acceptance

Die Montage der Fahrwerkskomponenten erfolgt gemäß den Angaben des Fahrzeugherstellers bzw. den mitzuliefernden Einbauhinweisen und sollte durch einen Fachbetrieb durchgeführt werden. / *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.*

Die Sensoren der Fahrerassistenzsysteme (z. B. Radarsensor, Kamerasysteme) müssen gemäß Herstellervorgaben überprüft und gegebenenfalls justiert werden. / *The sensors adjustment of the driver assistance systems (for example, radar sensor, camera systems) must be checked.*

Die vorschriftsmäßige Einstellung der Scheinwerfer ist zu überprüfen.
The headlight adjustment has to be checked.

Nach erfolgter Umrüstung ist eine Achsvermessung des Fahrzeugs durchzuführen.
After modification an axle alignment must be carried out on the vehicle.

Die Endanschläge (Gummi- oder Hartschaumelemente) müssen der Beschreibung entsprechen. Zusätzliche Federwegbegrenzer sind nicht zulässig.
The bump stops (rubber or polyurethane foam element) must correspond to the descriptions of this report. Additional travel limiters are not allowed.

Die Verwendung des Tieferlegungssatzes an Fahrzeugen mit Niveauregulierung ist unzulässig.
Use of the lowering kit on vehicles with levelling system is not permitted.

Die Fahrzeughöhe ist in den Fahrzeugpapieren unter Feld 20 neu festzulegen. Das genaue Maß der Tieferlegung ist von fahrzeugspezifischen Toleranzen, der Reifengröße und der Fahrzeugausführung abhängig.
The vehicle height must the 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.

Maße / *Dimensions* (mm)

Fahrzeug *vehicle*	**Verstellbereich** *adjustment range* (min. – max.)		**Abstandsmaß** *Clearance*		**Tieferlegungsmaß** *Size of lowering*	
	VA/*front* [1)]	**HA**/*rear* [2)]	**VA**/*front* [3)]	**HA**/*rear* [3)]	**VA**/*front* [*)]	**HA**/*rear* [*)]
BMW M M2	195 – 210	23 – 33	360	365	10 – 25	5 – 20
BMW M M3 2WD, M3 Competition 2WD	195 – 210	23 – 33	360	339 [4)] 345 [4)]	10 – 25	5 – 20
BMW M M4 Coupé 2WD, M4 Competition Coupé 2WD				365		
BMW M M3 4WD, M3 Competition 4WD	180 – 195	23 – 33	360	339 [4)] 345 [4)]	10 – 25	5 – 20
BMW M M3 Touring 4WD	180 – 195	23 – 33	360	339 [4)] 345 [4)]	10 – 25	0 – 15
BMW M M4 Coupé 4WD, M4 Competition Coupé 4WD	180 – 195	23 – 33	360	365	10 – 25	5 – 20
M4 Competition Cabrio 4WD	180 – 195	23 – 33	360	365	10 – 25	0 – 15

[1)] Abstandsmaß der Federauflage bis zur nächstliegenden gehäuseseitigen Befestigungsschraube des Federbeins / *Distance from the spring rest to the nearest fastening screw*

[2)] Abstand der Anlagefläche der Schraubhülse am Fahrzeug bis zur Federauflage
Distance from contact point of the car to the adjustable spring perch

[3)] Mindestabstand Radmitte – Radhausausschnittkante
Minimum distance from wheel centre to wheelhouse rim

[4)] Bei Fahrzeugen, die am hinteren Radlauf serienmäßig mit einer zusätzlichen Radhausverbreiterung (Flap am Radhausbogen) ausgestattet sind, muss der kleinere Wert für die Ermittlung des Abstandsmaßes genommen werden.
For vehicles that are equipped with an additional wheel arch extension (flap on the arch of the wheel arch) as standard, the smaller value must be used to determine the distance.

[*)] Das Tieferlegungsmaß wurde am Prüffahrzeug ermittelt. Bei Fahrzeugen mit werkseitiger Tieferlegung reduziert sich die angegebene Tieferlegungsrate um das Maß der werkseitigen Tieferlegung. / *The suspension lowering was determined on the test vehicle. For vehicles with factory lowering, the specified lowering rate is reduced by the factory lowering dimension.*

Berichtigung der Fahrzeugpapiere / *Amendment of vehicle documents:*

Eine Berichtigung der Fahrzeugpapiere ist erst „bei nächster Befassung“ der Zulassungsbehörde mit den Fahrzeugpapieren erforderlich.
Folgendes Beispiel für die Eintragung wird vorgeschlagen:
Amendment of the vehicle documents is only necessary the next time the approval authority has to do with the vehicle documents. The following example is suggested for the entry:

Feld / *Item*	Eintragung / *Entry*
22	Schraubhülsen mit Sonderfedern der Fa. BMW M an serienmäßigen Federbeinen vorn, Kennzeichnung Federn: 31 33 5 A3B 692; Seriendämpfer und Schraubhülsen hinten; Kennzeichnung Federn: 33 53 8 845 029; Maß Radmitte bis Radhausausschnittkante VA/HA.../... *

V. Prüfgrundlagen und Prüfergebnisse / *Basis of tests and test results*

Das Versuchsfahrzeug und die Fahrwerksteile wurden einer Prüfung gem. den Prüfbedingungen über Fahrzeugtiefer-/höherlegungen des VdTÜV-Merkblatts 751 (Stand: 30.04.2021) unterzogen. Die Prüfbedingungen wurden erfüllt.
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 (30.04.2021).
The test conditions were fulfilled.

VI. Anlage / *Annex*: keine / *none*

VII. Schlussbescheinigung / *Concluding certification*

Es wird bescheinigt, dass die im Verwendungsbereich beschriebenen Fahrzeuge nach der Änderung und der durchgeführten und bestätigten Änderungsabnahme unter Beachtung der in diesem Teilegutachten genannten Auflagen/Hinweise insoweit den Vorschriften der StVZO in der heute gültigen Fassung entsprechen.
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.

Die Firma BMW Group unterhält ein Qualitätsmanagementsystem nach ISO 9001:2015 (Zertifikat-Registrier-Nr.: 12 100 27124 TMS).
The manufacturer BMW Group maintains a quality management system according to ISO 9001:2015 (Certificate Registration No.: 12 100 27124 TMS).

Das Teilegutachten verliert seine Gültigkeit bei technischen Änderungen am Fahrzeugteil oder wenn vorgenommene Änderungen an den beschriebenen Fahrzeugen die Verwendung des Teiles beeinflussen sowie bei Änderung der gesetzlichen Grundlagen.
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.

TÜV NORD Mobilität GmbH & Co. KG
IFM - Institut für Fahrzeugtechnik und Mobilität
Schönscheidtstr. 28, 45307 Essen
DIN EN ISO/IEC 17025, 17020
Benannt als Technischer Dienst / *Designated as Technical Service*
vom Kraftfahrt-Bundesamt / *by Kraftfahrt-Bundesamt*: KBA - P 00004-96

Hannover, 26.09.2023
IFM/926/Bb

IFM TÜV NORD Mobilität KBA-P00004-96 DIN EN ISO/IEC 17025, 17020

Obering. Dipl.-Ing. K.-D. Barbknecht