

Original BMW Accessories.

Installation Instructions.



BMW M Performance Sports Chassis Retrofit BMW 1 Series 5-door (F20) BMW 3 Series Saloon (F30)

These installation instructions are not valid for all-wheel vehicles

Retrofit kit No.:

33 50 2 320 928	M Performance Sports Chassis Retrofit Kit F 20
33 50 2 320 980	M Performance Sports Chassis Retrofit Kit F 30 4-cylinder
33 50 2 320 981	M Performance Sports Chassis Retrofit Kit F 30 6-cylinder

Installation time

The installation time is **approx. 6.5 hours**. This may vary depending on the condition of the car and the equipment in it.

Important information

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

In any event, the target group for these installation instructions is specialist personnel trained on BMW cars with the appropriate specialist knowledge.

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

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

If you experience installation or function 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, send an inquiry straight away to the technical parts support team via the Aftersales Assistance Portal (ASAP).


Quote the following information:

- Chassis number,
- retrofit kit part number,
- a detailed description of the problem,
- any work already carried out.

Do not archive the hard copy of these installation instructions since daily updates are provided via ASAP!


All pictures show LHD cars; proceed accordingly on RHD cars.

Pictograms


 Denotes instructions that draw your attention to special features.

◀ Denotes the end of the instruction or other text.

Ordering instructions

 The coil springs at the front and rear (see EPC for part number and further details; **SZ code SZP5A**) are not supplied in the retrofit kit and must be identified using the spring table in the EPC and ordered separately. ◀

For cars without M Sports chassis:

 it is absolutely essential that the stabilisers on the M Sports chassis are retrofitted (for instructions and part number, see EPC). ◀

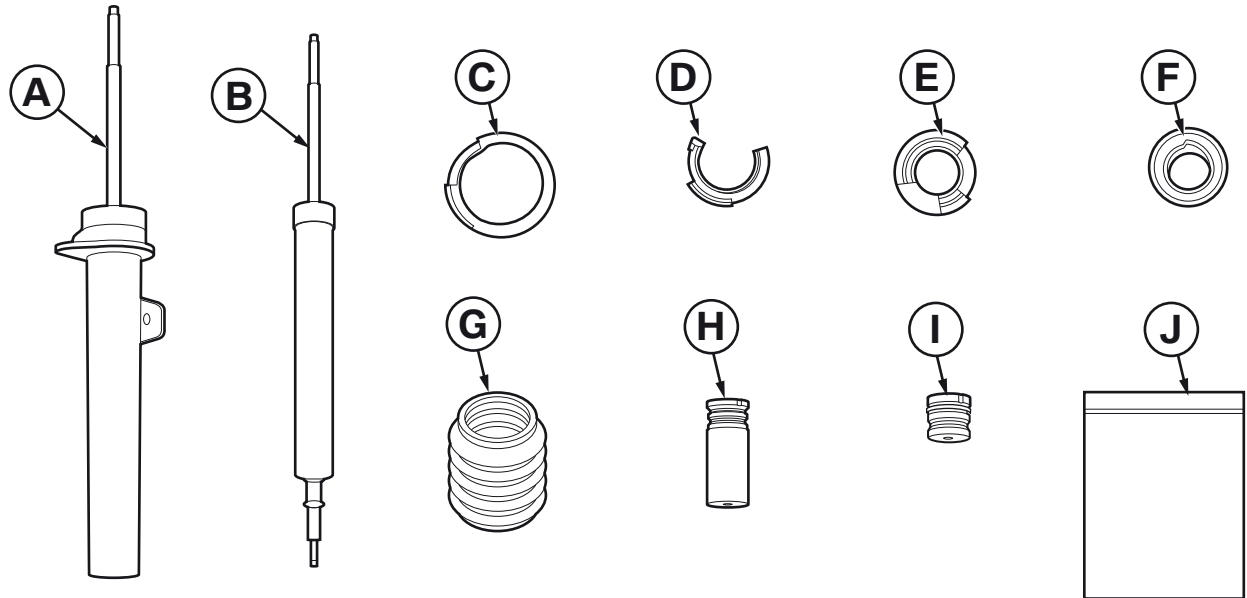
Special tools required

31 1 140	SW 16/18 open-ended wrench
31 2 210	SW21 socket wrench insert
31 2 230	Socket nut
31 3 340	Spring tensioner
31 3 350	Spring holder
31 3 358	Restrictor insert
33 5 010	Spring tensioner
33 5 020	SW22 reversible ratchet with hexagon socket

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1. BMW M Performance Sports Chassis F20 and F30 (4-cylinder/6-cylinder) parts list



F20 0132 V

Legend

- A** Front spring strut (2 x)
- B** Rear shock absorber (2 x)
- C** Front lower spring support (2 x)
- D** Front upper spring support (2 x)
- E** Rear lower spring support (2 x)
- F** Rear upper spring support (2 x)
- G** Protective pipe (2 x)
- H** Rear auxiliary shock absorber (2 x)
- I** Front auxiliary shock absorber (2 x)
- J** Various fastening parts

2. Preparatory work

	ISTA No.
Conduct a brief test	---
Disconnect the negative pole of the battery	12 00 ...
Remove and attach the following components according to ISTA	
Front axle	
Front wheels	36 10 300
Remove the front brake discs if required	34 11 220
Remove the brake linings of the front disc brakes if required	34 11 100
Remove the front left and right spring struts in full and then install/replace them	31 31 000
Remove the front left and right coil spring in full and then install/replace them	31 33 100
Remove and reinstall the front left and right spring strut bearings	31 33 001
Remove the front power unit bottom guard and install/replace it	51 47 151
Rear axle	
Remove and install the rear wheels	36 10 300
Remove and install/replace the flap in the boot trim	51 47 171
Remove and install/replace the boot floor trim	51 47 101
Remove and install/replace the right boot wheel arch trim	51 47 161
Remove and install/replace the left boot wheel arch trim	51 47 151
Remove the rear left and right shock absorbers and then install/replace them	33 52 000
Remove the rear left and right coil springs and then install/replace them	33 53 000
Lower/lift the rear axle differential	33 31 503

3. Concluding work and coding

This retrofit does not require coding.



Exception: vehicles with adaptive M chassis SA 2VF must be coded. For coding, see ISTA/P. ◀

- Connect the battery
- Conduct a brief test
- On cars with active steering (AFS) the steering angle sensors must be aligned using the BMW diagnostic system via the service function (SBT)
- Carry out chassis measurement and adjust so it is identical to the Sports chassis settings data in SA 226/704
- Adjust the headlights (ISTA No. 6 310 004)