

Original BMW Accessories.

Installation instructions.



Retrofit Kit for BMW Performance Sport Running Gear BMW 3 Series Sedan (E 90)

Installation instructions do not apply to 4-wheel drive vehicles

Retrofit Kit No. 33 50 0 429 752 BMW Performance E90 Sport Running Gear

Installation time

The installation time is **approx. 8 hours**, but this can vary depending on the condition and equipment of the vehicle.

The vehicle must be updated to the latest I-level status by flashing before installing the retrofit. Different programming times are necessary depending on the production age of the vehicle and the work already performed on the vehicle so that no time requirements can be specified here.

The installation time does not include the time required for programming/encoding which depends on the vehicle's age and equipment.

Important information

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

The target group of these installation instructions is always specialized personnel trained on BMW vehicles with corresponding specialized knowledge.

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

In the event of installation or functional problems, limit troubleshooting to 0.5 hours for mechanical jobs and 1.0 hours for electrical jobs.

To avoid unnecessary work and costs, send a corresponding inquiry via the Aftersales Assistance Portal (ASAP) using the technical parts support application.

Please quote the following:

- Vehicle identification number
- Part number of retrofit kit
- Exact description of the problem
- Work already carried out.

Do not archive the hard copy of these installation instructions, as daily updates are made by ASAP!

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

Installation information

Following installation, the retrofit kit must be encoded with the SSS (Software Service Station) via the path - **Retrofitting** -.

Ordering information

The front **A** and rear **B** stabilizer are not included in the retrofit kit and must be ordered separately (see EPC for part number and instructions).

The front **C** and rear **D** coil springs are not included in the retrofit kit and must be determined using the spring table in the EPC and ordered separately (see EPC for part number and instructions).

On E90 vehicles up to 03/06 the front support bearings must be replaced. These are not included in the retrofit kit and must be ordered separately (see EPC for part number and instructions):

Depending on the installation version, the rubber bearings for the rear stabilizer **U** or **V** are required (see EPC for instructions).

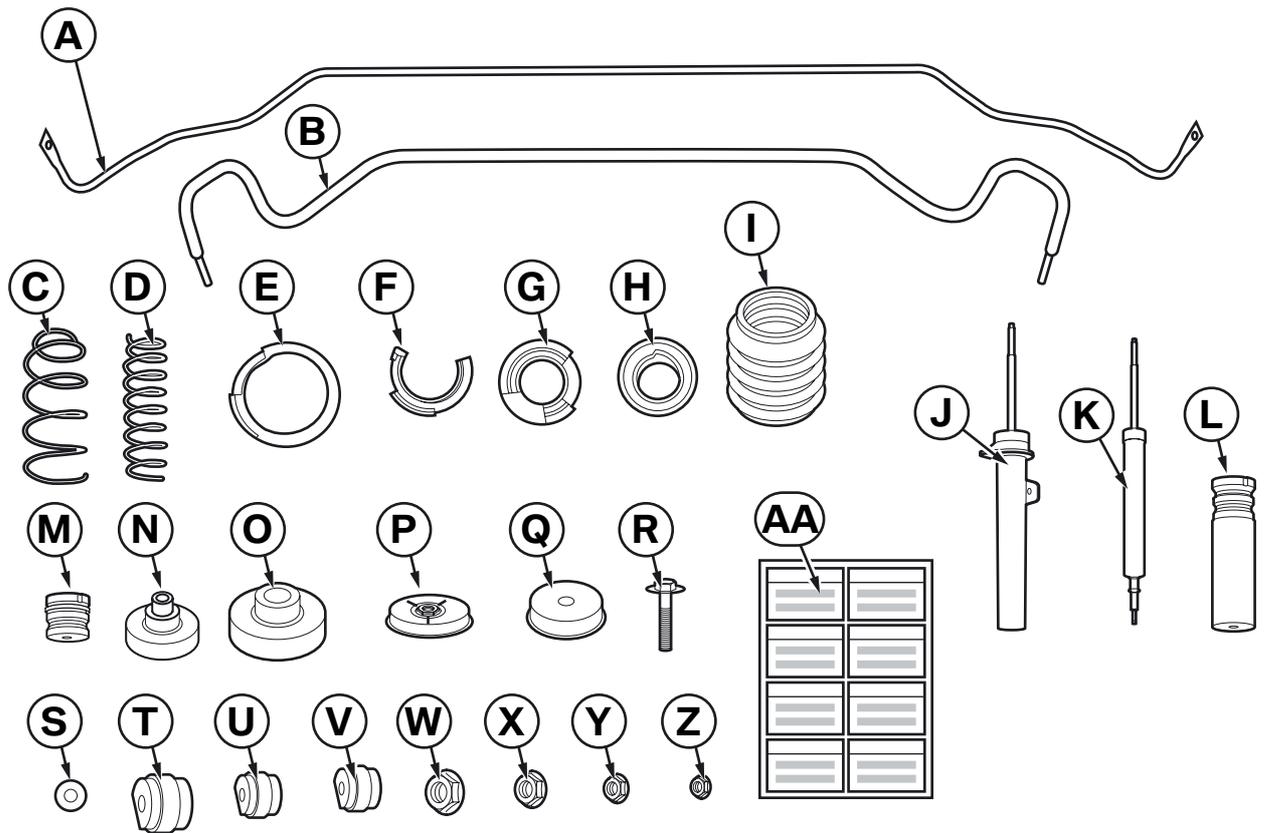
Special tools required

- 31 1 140 Open-ended wrench, 16/18 mm
- 31 2 210 Socket wrench insert, 21 mm
- 31 2 230 Socket head
- 31 3 340 Spring tensioner
- 31 3 350 Spring holder
- 31 3 360 Protective inserts for spring holder
- 33 5 010 Spring tensioner
- 33 5 020 Ratchet wrench with hexagon socket, 22 mm

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1. Parts overview for BMW Performance Sport Running Gear



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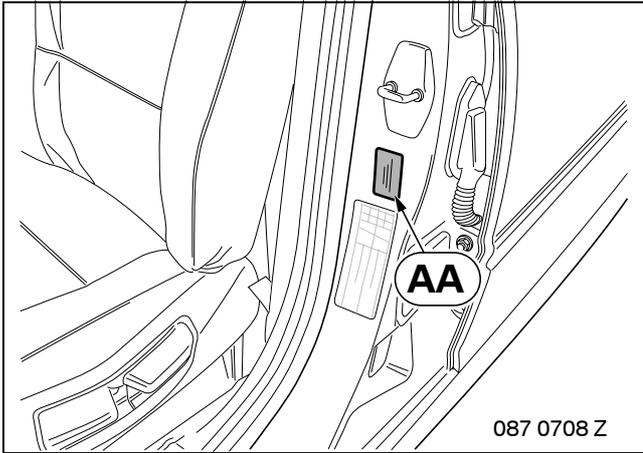
Legend

- A** Rear stabilizer
(not included in retrofit kit)
- B** Front stabilizer
(not included in retrofit kit)
- C** Front coil spring (2x)
(not included in retrofit kit)
- D** Rear coil spring (2x)
(not included in retrofit kit)
- E** Front spring washer, top (2x)
- F** Front spring washer, bottom (2x)
- G** Rear spring washer, bottom (2x)
- H** Rear spring washer, top (2x)
- I** Front protective tube (2x)
- J** Front suspension strut (2x)
- K** Rear suspension strut (2x)
- L** Rear damper (2x)
- M** Front damper (2x)
- N** Rear support bearing, lower section (2x)
- O** Rear sealing grommet (2x)
- P** Rear support bearing, upper section (2x)
- Q** Rear support pot (2x)
- R** Locking bolt for rear axle, M12 (6x)
- S** Dust protection sleeve for front support bearing (2x)
- T** Rubber bearing for front stabilizer (2x)
- U** Rubber bearing for rear stabilizer (2x)
- V** Rubber bearing for rear stabilizer (2x)
- W** Flanged nut with washer for front axle, M14 (6x)
- X** Self-locking hexagon nut, front shock absorber, M12 (2x)
- Y** Hexagon nuts with flange, rear shock absorber, M10 (2x)
- Z** Self-locking collar nut, M8 (6x)
- AA** Information plate

2. Preparatory work

	TIS No.
Perform quick test	—
Disconnect negative terminal of battery	12 00 ...
Remove and install/replace following components according to TIS RA	
Front axle	
Remove and install/replace front left and right suspension strut	31 31 000
Remove and install/replace coil spring for front left and right suspension strut	31 33 100
Replace front left and right support bearing (only E90 up to 03/06)	31 33 001
Remove and install/replace front stabilizer	31 35 000
Rear axle	
Remove and install/replace rear left and right shock absorber	33 52 000
Remove and install/replace rear left and right coil spring	33 53 000
Remove and install/replace rear stabilizer	33 55 000

3. Concluding work and coding



Apply **AA** information plate in visible location on driver's side B-pillar.

Retrofitting is coding-relevant.

- Reconnect vehicle battery
- Encode retrofit kit with SSS (Software Service Station) via the path - **Retrofitting** -
- Perform quick test
- On vehicles with active steering (AFS) a steering-angle sensor calibration must be carried out with the BMW diagnosis system via the Service function
- Perform chassis alignment
- Adjust headlamps