Replacing air spring BMW F07 | F11

Manufacturer

BMW

Product

Document number

40933 EN





1 Replacing air spring

Vehicle manufacturer	Model range	Model
BMW	F07	5-Series GT
	F11	5-Series Touring

Tab. 1



Vehicle identification: Check OE item number.

Storing air springs	
Temperature	-15°C (min.) / +50°C (max.)
UV radiation	Avoid direct sunlight.
Storage environment	Ensure a clean storage environment. Avoid contamination.

Tab. 2 Storing air springs

1.1 Removing air spring, rear axle

Requirements:

- Vehicle has been raised safely.
- Air suspension has been emptied using suitable diagnostic unit. Observe the vehicle manufacturer specifications.
- Wheel has been removed.

! CAUTION

Risk of injury due to flying parts. Slight to moderate injury possible.

- ⇒ Wear protective goggles.
- ⇒ Wear hearing protection.
- ⇒ Wear protective gloves.





1. Loosen the safety latches at the bottom anchoring of the air spring by squeezing them together.

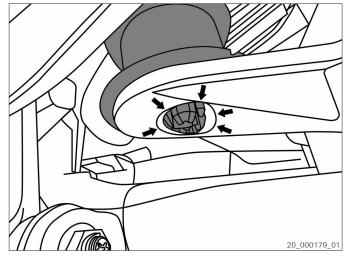


Fig. 1

2. Push air spring out of the bottom anchoring.

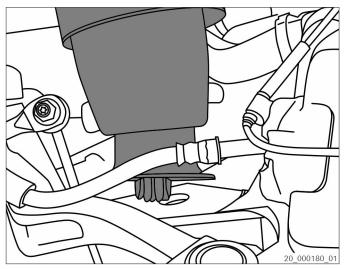


Fig. 2

- 3. Twist air spring to loosen it from the upper anchoring.
- 4. Pull air spring downwards, out of the upper anchoring.
- 5. Compress air spring for removal.





- 6. Carefully loosen air line.
 - → Compressed air escapes.

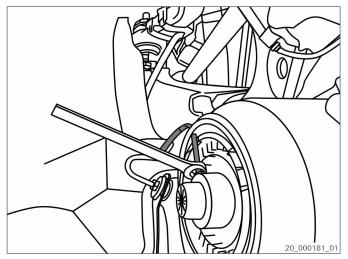


Fig. 3

7. Protect connectors from contamination.

Unclipping air line

8. Do **not** cut into gaiter! A gaiter that has been cut open must not be reused.

Unclip air line from groove (1) on air spring.

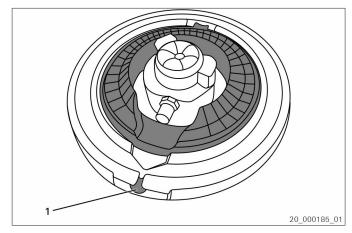


Fig. 4

1 Nut

- 9. Remove gaiter from air spring.
- 10. Take out air spring and dispose of it.





11. Dispose of adapter (1).



Adapter (1) is not needed for fitting the SACHS air spring.

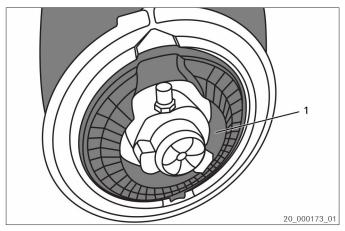


Fig. 5 Adapter

1 Adapter

12. Check gaiter for damages before reusing.

1.2 Mounting gaiter

Requirements:

- Check gaiter for damages. Replace damaged part. Observe the vehicle manufacturer specifications.
- 1. Fit gaiter to air spring.

1.3 Modifying air line

Requirements:

• Connectors are protected against contamination.



Connecting air line to a new SACHS air spring possible only without OE nipple.

Modifying air line

1. Separate nipple (1) from clamping piece (2).

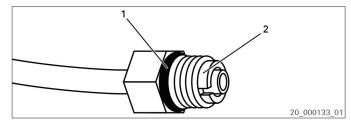


Fig. 6 Nipple with clamping piece

- 1 Nipple
- 2 Clamping piece





2. Bend open clamping piece (2).

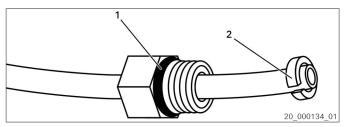


Fig. 7 Bend open clamping piece

- 1 Nipple
- 2 Clamping piece

3. Remove clamping piece (2).

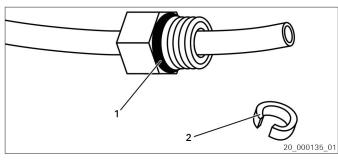


Fig. 8 Remove clamping piece

- 1 Nipple
- 2 Clamping piece

4. Remove nipple (1).

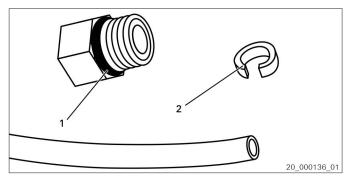


Fig. 9 Remove nipple

- 1 Nipple
- 2 Clamping piece

1.4 Connecting air line

Requirements:

- Connectors are clean.
- Connectors are protected against contamination.
- Air line has been checked for damage.





NOTICE

Material damage of air suspension possible.

Pressure loss due to scratches or cuts on air line possible.

- ⇒ Check air line for damage before connecting it.
- ⇒ Replace damaged air line.
- 1. Feed air line through the opening at the gaiter.
- 2. Remove and dispose of transport safety device (1).

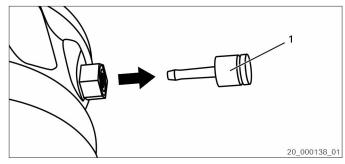


Fig. 10 Removing transport safety device

1 Transport safety device

3. Insert air line (1) into nipple until it abuts.

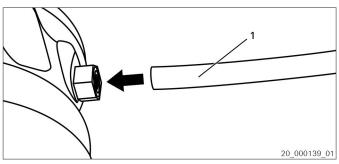


Fig. 11 Insert air line

1 Air line

4. Pull air line to check for secure fit.

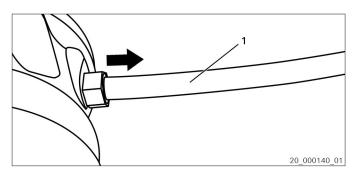


Fig. 12 Check for secure seat

1 Air line





1.5 Installing air spring, rear axle

1. Clip air line into groove at the air spring.

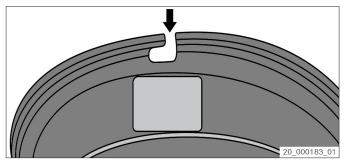


Fig. 13

2. Compress and insert air spring.

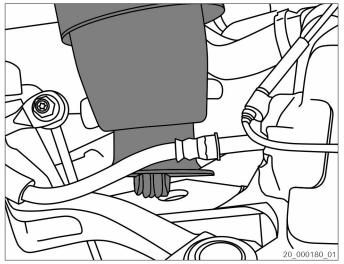


Fig. 14

- 3. Twist air spring to fit it into the upper anchoring.
- 4. Snap air spring into the lower anchoring.
- 5. Check whether the safety latches at the lower anchoring have securely snapped into position.

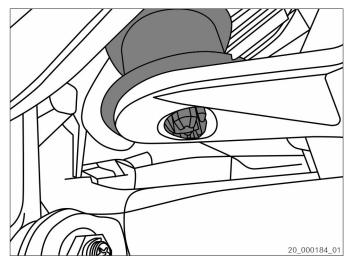


Fig. 15





1.6 Filling air suspension

Requirements:

- The vehicle is on lifting platform, wheels are freely accessible and unsupported.
- 1. Fill air suspension using suitable diagnostic unit. Observe the vehicle manufacturer specifications.
- 2. Screw on wheel applying the appropriate tightening torque. Observe the vehicle manufacturer specifications.
- 3. Lower vehicle from lifting platform.

