

ZF Aftermarket Service Information

Replacing air spring
Mercedes-Benz
W164 | X164 | W166 | X166 | C292

Manufacturer Mercedes-Benz

Product

Document number 40938 EN



AFTERMARKET


LEMFÖRDER  SACHS  TRW



1 Replacing air spring

Vehicle manufacturer	Model range	Model
Mercedes-Benz	W164 W166	M-Class
	X164 X166	GL-Class
	C292	GLE-Class

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. Observe the vehicle manufacturer specifications.
- Air suspension has been emptied using suitable diagnostic unit. Observe the vehicle manufacturer specifications.
- Plastic cover has been removed from control arm.
- Wheel has been removed.

Loosening air line

1. Carefully loosen air line nipple.

→ Air pressure escapes.

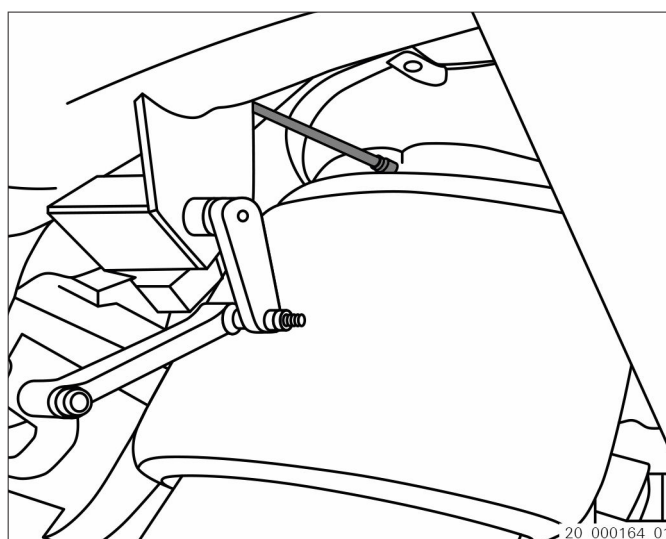


Fig. 1



Removing air spring

2. Pull down top part of air spring to detach it from the vehicle.
3. Take out air spring.

Removing and disposing of retaining clip

4. Unscrew air spring retaining clip and dispose of it.

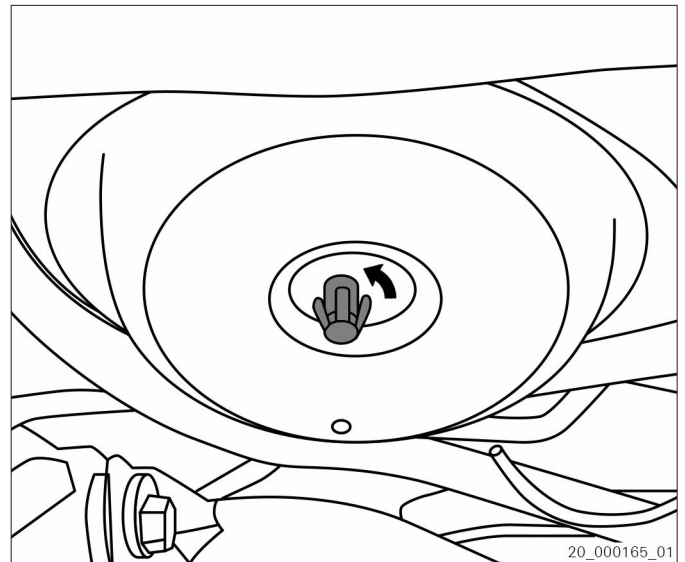



Fig. 2

1.2 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).

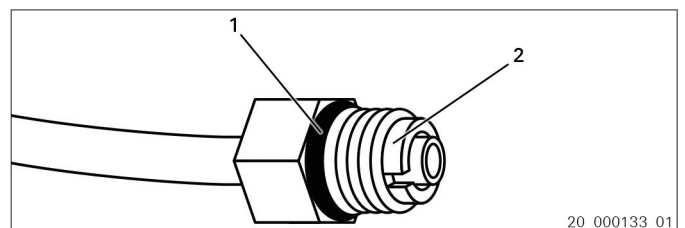


Fig. 3 Nipple with clamping piece

- 1 Nipple
- 2 Clamping piece



2. Bend open clamping piece (2).

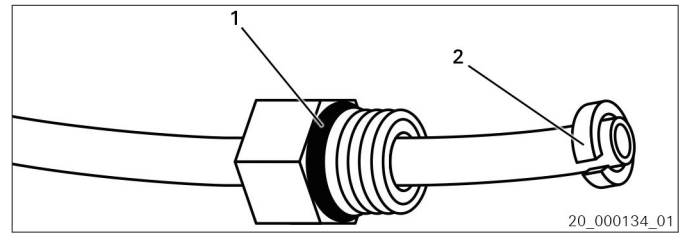


Fig. 4 Bend open clamping piece

- 1 Nipple
2 Clamping piece

3. Remove clamping piece (2).

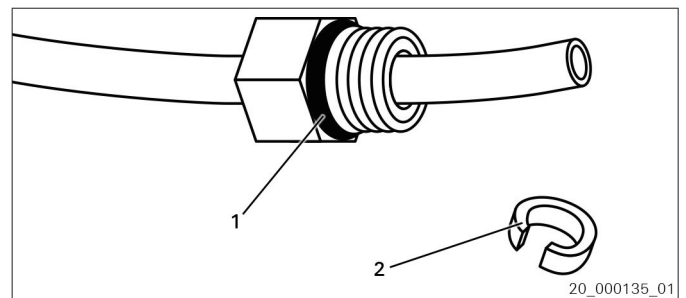


Fig. 5 Remove clamping piece

- 1 Nipple
2 Clamping piece

4. Remove nipple (1).

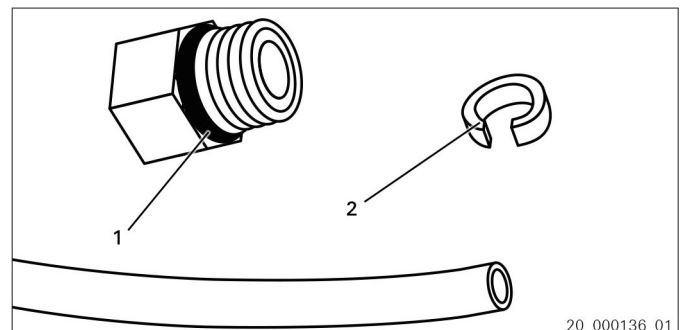


Fig. 6 Remove nipple

- 1 Nipple
2 Clamping piece



1.3 Installing air spring, rear axle

Installing retaining clip

1. Screw in **new** air spring retaining clip.

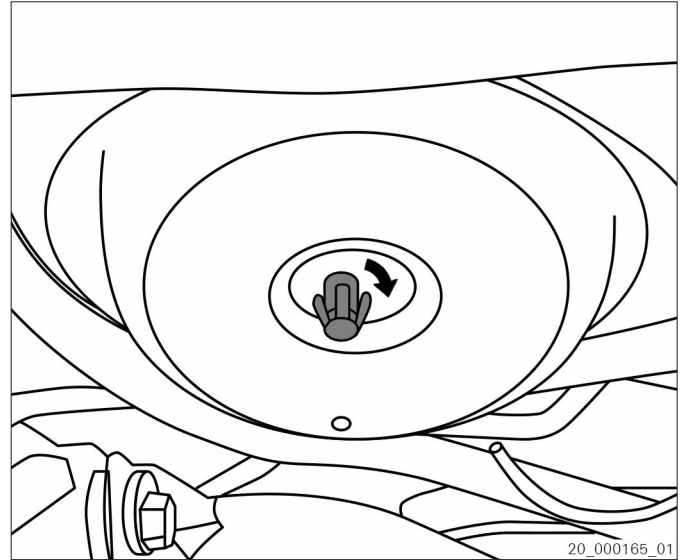



Fig. 7

Installing air spring

2.  Align air spring lug with groove of chassis component.

Insert air spring.

3. Push air spring upwards until it snaps in place in the retaining clip.

-  Fit the control arm's plastic cover **after** filling the air suspension.

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. Remove and dispose of transport safety device (1).

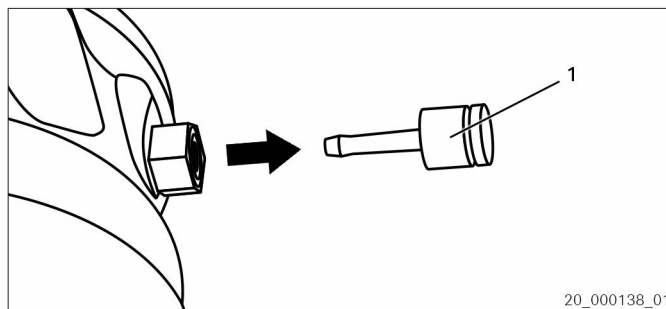


Fig. 8 Removing transport safety device

1 Transport safety device

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

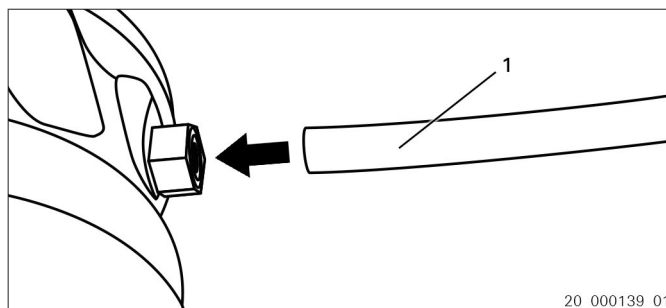


Fig. 9 Insert air line

1 Air line

3. Pull air line to check for secure fit.

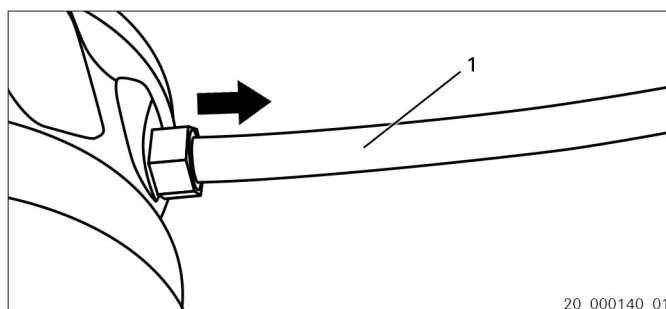


Fig. 10 Check for secure seat

1 Air line

4. Fill air suspension using suitable diagnostic unit. Observe the vehicle manufacturer specifications.



5. Screw on wheel applying the appropriate tightening torque. Observe the vehicle manufacturer specifications.
6. Lower vehicle from lifting platform.