

Wheel bolts for wheel attachment ¹⁾

Wheel bolt part no. Thread M 12 x 1.5 Head height "K" mm Shank length "L" mm	Model Rim version	Remarks
110 401 01 70 K = 11.5 L = 21	126 Steel	Solid bolt head Replacement 201 401 02 70 Exchange only in sets (5 pcs)
201 401 02 70 K = 10.5 L = 21		Hollow bolt head Exchange only in sets (5 pcs)
108 401 00 70 K = 15 L = 29.5	126 up to 08/85 14" light alloy	Shiny bolt surface (gloss-galvanized)

¹⁾ Use only Mercedes-Benz wheel bolts!
Identification: three-pointed star in ring stamped into face of bolt shank or bolt head.

40-0113 R and R wheels

Wheel bolts for wheel attachment ¹⁾

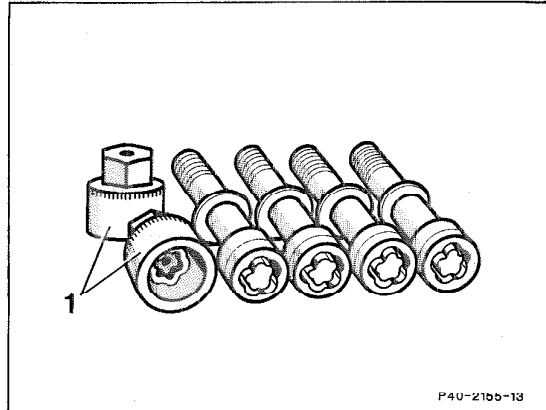
Wheel bolt part no. Thread M 12 x 1.5 Head height "K" mm Shank length "L" mm	Model Rim version	Remarks
126 400 00 70 K = 43.5 L = 40	126 as of 09/85 15" light alloy	Hollow bolt head sealed with light-alloy cap. As of approx. 05/88 bolt head with collar. Bolts with and without collar on bolt head can be mixed at random.

¹⁾ Use only Mercedes-Benz wheel bolts!
Identification: three-pointed star in ring stamped in face end of bolt shank or bolt head.

Wheel locks for 15" light-alloy rims

Mercedes-Benz commercial part no. Designation	Rim Designation	Rim Part no.	Model
B6 640 8101 Wheel lock	7 J x 15 H2 ET 25	126 400 30 02	126
B6 640 8105 Lock wrench (for replacement)			all

The parts kit includes:
 Four wheel locks, two lock wrenches (1) and
 one copy of installation instructions.



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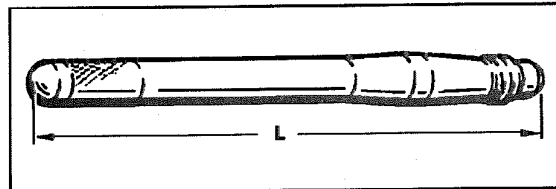
For the replacement requirement of lock
 wrenches, a sticker with the wrench number
 is provided in the installation instructions (arrow).
 This must be quoted with the order together with
 the Mercedes-Benz commercial part number.
 The wrench number should always be at hand
 which is why we recommend to glue it into the
 respective vehicle data card.



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**Centering pins for light-alloy rim with flush
 wheel disk ¹⁾**

Model	Part no.	Thread	Length "L"
126	126 403 00 74	M 12×1.5	122



P40-0175-11

¹⁾ The centering pin is part of the on-board tool kit.

40-0113 R and R wheels

Centering of rims

Middle centering dia. on rim (mm)	Centering dia. on front wheel hub or rear wheel shaft flange (mm)	Radial play between rim and front wheel hub or rear wheel shaft flange (mm)	Model (introduction)
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Steel rim ¹⁾

66.50 66.57	66.40 66.35	0.10 0.22	107, 114, 115, 116 and 123. 126 (up to 12/89).
66.46 66.54	66.40 66.37	0.06 0.17	126 (as of 01/90).

1) As of 01/90 for model 126 with segment middle centering.

Light-alloy rim

66.50 66.57	66.40 66.35	0.10 0.22	107, 114, 115, 116 and 123. 126 (up to 12/89).
66.50 66.57	66.40 66.37	0.10 0.20	126 (as of 01/90).

Tightening torques ¹⁾

Nm

Wheel bolts M 12 × 1.5

110

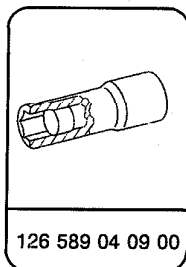
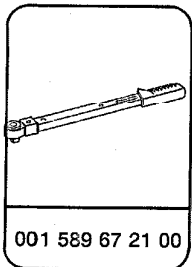
Wheel lock M 12 × 1.5, for 15" light-alloy rims with flush wheel disk.

130 ²⁾

1) Regularly check torque wrench.

2) Only for special protection vehicles. Replace wheel bolts with every maintenance service.

Special tools



Commercially available tools

Electric or pneumatic impact wrench with limited tightening torque of 100 Nm	e.g. Atlas-Copco, D-7250 Leonberg Order no. LMS 26 HR 01
Hex. socket wrench insert 17 mm for impact tool, max. outer diameter 26.5 mm	e.g. Hazet D-5630 Remscheid Order no. 900 S

Wheel attachment**Note**

Use only Mercedes-Benz wheel bolts!

Identification: three-pointed star in ring stamped into face end of bolt shank or bolt head.

Do not confuse wheel bolts for steel rims with wheel bolts for light-alloy rims.

Check wheel bolts. Clean dirty bolts. Replace bolts with damaged thread and corroded spherical collar. Check thread in front wheel hub and rear axle shaft flange for easy operation, retap if required.

No dirt or grease must be present on the spherical collar of the bolts and the spherical sockets of the rims as this would overstretch the thread.

Contact surfaces on the rim and the axles must be clean.

Clean corroded surfaces with wire brush or emery cloth.

Always tighten wheel bolts and wheel locks with torque wrench.

Regularly check torque wrench.

New rims must be retightened after a running performance between 100 and 500 km, as the ball sockets of the wheel mounting settle.

40-0113 R and R wheels

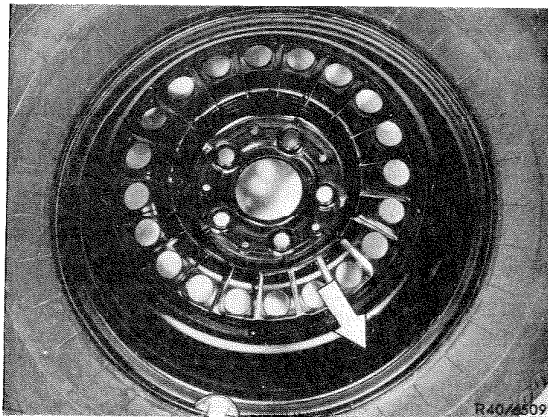
Removing

- 1 Remove wheel trim covers of steel rims (40-110).
- 2 Loosen wheel bolts.
- 3 Lift vehicle (40-011 or 40-012).
- 4 Unscrew wheel bolts.

Note

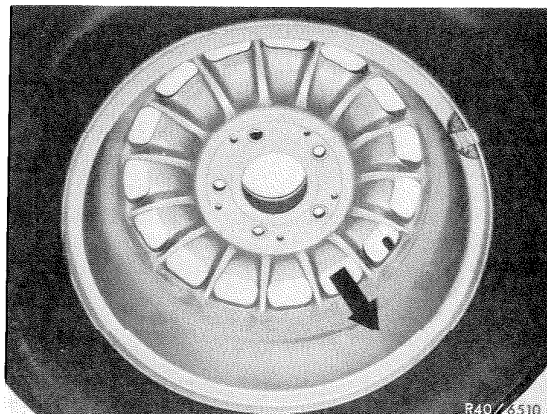
When unscrewing the last wheel bolt on light-alloy rims ensure that the wheel does not tip over, as this would damage the wheel.

- 5 Inspect the wheel inside of the rims (arrow) for accumulation of dirt. If necessary, clean wheels.



Steel rim

R40/6509



Light-alloy rim

R40/6510

R40/6510

6 Inspect centering and ball sockets as well as rim flanges of rims for damage.

7 Check edge contact area (wheel and front wheel hub or brake disk chamber) for corrosion, clean corroded areas with wire brush or emery cloth if required.

Mounting

Note

Use only Mercedes-Benz wheel bolts.

Identification:

Three-pointed star in ring stamped into face end of bolt shank or bolt head.

Always tighten wheel bolts and wheel locks with torque wrench.

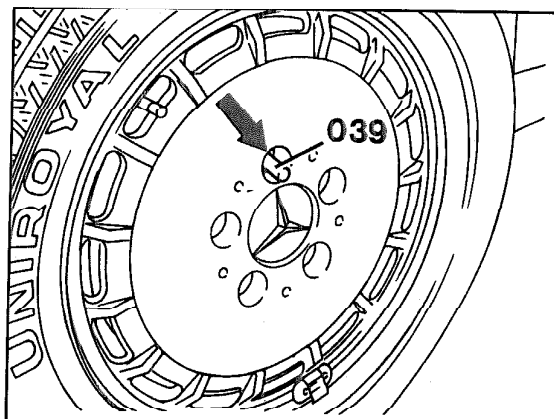
Do not use impact tools for mounting the wheel locks as this could lead to damage on the lock wrench during both tightening and loosening.

Ensure that the correct wheel bolts are used for steel and light-alloy rims (see table).

Replace wheel bolts on special protection vehicles with every maintenance service (every 20 000 km).

40-0113 R and R wheels

1 On 15" light-alloy rims with flush wheel disk and sunk mounting holes install pin (039) in a threaded hole in top position (arrow) before sliding on the wheel. The pin is part of the on-board tool kit.

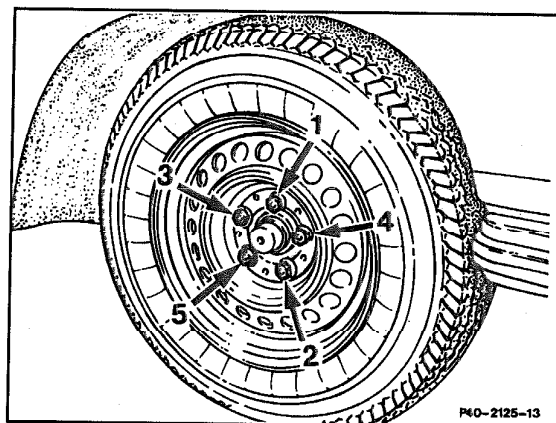


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2 Mount rims.

Ensure that the wheels are not stressed by one-sided tightening of wheel bolts.

a) Tighten wheel bolts crosswise in several passes. Avoid especially tightening of the first wheel bolt before the others are at least hand tight.



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b) When using impact tools, tighten only up to $\frac{3}{4}$ of the specified tightening torque. On light-alloy rims the outside diameter of the socket wrench insert may be a maximum of 26.5 mm, otherwise the socket wrench insert will damage the wheel. When installing the first wheel bolt on light-alloy rims ensure that the wheel is not tilted as this would damage the wheel.

Experience has shown that impact tools will achieve a tightening torque of 60 to 70 Nm even after short use. When using the tool longer, some impact tools will produce a considerably excessive tightening torque leading to a deformation of the rim, damage of the thread or breakage of the wheel bolts.

3 Lower vehicle.

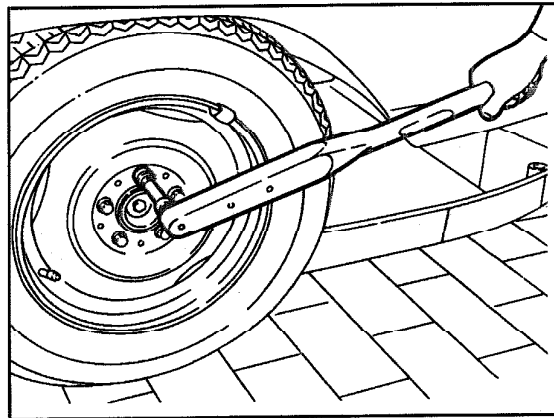
4 Always use socket wrench insert 126 589 04 09 00 and torque wrench 001 589 67 21 00 with automatic ratchet action for tightening the wheel bolts.



The socket wrench insert prevents that the light-alloy caps of the wheel bolts of the 15" light-alloy rims are damaged.

Tightening torque 110 Nm. On special protection vehicles 130 Nm.

5 Mount wheel trim covers of steel rims (40-110).



P40-2126-13