



A18	AH00.00-X-1000Z	General notes	23.6.99
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B18	AH40.10-P-9411-01A	Information on tires/disc wheels	Models 124, 129, 140, 163, 168, 170, 201, 202, 208, 210, 220	
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Tires

- Check tire and disc wheel designation in accordance with the vehicle documents when retrofitting.

- When fitting tires specific matching of tire and disc wheel is necessary to ensure the concentricity of the wheel.

Matching points marked on the:

- Tire by colored dot on the outside of the tire.
- Sheet-steel disc wheel by means of colored dot or center punch point on the outside of the wheel.
- Light-alloy disc wheel generally at the valve hole, plus on model 140 colored dot or countersink in rim base.

- Generally replace rubber valve.
- Damaged or defective tires must always be replaced. The repair methods used in the tire trade are not approved by Mercedes-Benz.
- If individual tires are replaced, fit these on the front axle.

- Only use tires which are listed in the valid service information or repair instructions.
- If the permissible maximum speed of an M + S tire is below the maximum speed of the vehicle, a suitable adhesive label must be attached in the driver's field of vision.
- Tires which are permissible for higher speeds can be used.
- Always fit disc wheels with tires of the same construction, same make and design. Avoid combining winter tires (M + S) with summer tires.
- Run in new tires for approx. 100 km at moderate speed.
- Fit directional tires according to the arrow on the side of the tire.
- Tires are subject to ageing which has a negative effect on the tire's properties. To guarantee their maximum capability in winter, M + S tires should not be used for more than 3 winters.



Tires

Tire inflation pressure (for specified values, refer to tire inflation pressures table in fuel tank flap).

Insufficient tire inflation pressure increases the rolling resistance and increases the flexing energy of the tire. This results in exceeding the critical temperature limit (carcase detaches) and ruins the tire. If there is a loss of air pressure, determine cause and replace tire, if necessary.

Cleaning

Cleaning the wheels with a high-pressure cleaner with round-jet nozzles can cause damage to the tire. Damage occurs in the tire flanks in particular. The following is to be observed when using flat-jet nozzles:

- Maintain a minimum distance of 300 mm,
 - Do not point water jet directly at any point on the tire surface for a prolonged time.
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Storage

Clean tires thoroughly before putting into storage, check for damage and sufficient tread depth. Mark position and direction of rotation of the tires with chalk. Do not store tires in the open air. The rubber loses its elasticity and strength, ages more quickly and cracks under the effect of sunlight, heat, air in motion and ozone. Storage areas should be dry, cool and dark. Avoid draughts. Wherever possible keep doors and windows closed. Do not let tires come into contact with gasoline, fluid or other greases as they dissolve rubber.

Disposal

The MBD environmental catalogue gives information on collection, storage and disposal.



Disc wheels

- When changing wheels, e.g. changing from light-alloy to sheet-metal disc wheels, ensure that the wheel bolts required for the spare wheel are kept in a clearly visible place.
 - Since December 94, models 202 and 124 with special equipment light-alloy disc wheels have a sheet-metal spare wheel instead of a light-alloy spare wheel. The wheel bolts required are kept with the sheet-metal spare wheel.
 - Only use disc wheels of the same design approved by Mercedes-Benz.
 - Reinforced sheet-steel disc wheels are identified by a sticker on the wheel wrench.
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- On sheet-steel and light-alloy disc wheels the wheel bolts must generally be tightened to the specified tightening torque with a torque wrench. Retightening the wheel bolts after approx. 100-500 km is not necessary.
 - There must not be any corrosion pits on the seat of the tire bead.
 - Clean the contact surfaces on the disc wheel before fitting a new rubber valve.
Wheel covers must be fitted to sheet-steel disc wheels to support the rubber valve.
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- ⓘ Damaged or deformed disc wheels must not be repaired.

E18

AH40.10-P-0001-01A

TIREFIT tire sealant**Model 168, 170**

Minor puncture damage particularly to the tire tread can be sealed at the scene of the breakdown with the tire sealant and the tire can then continue to be used to a limited extent.

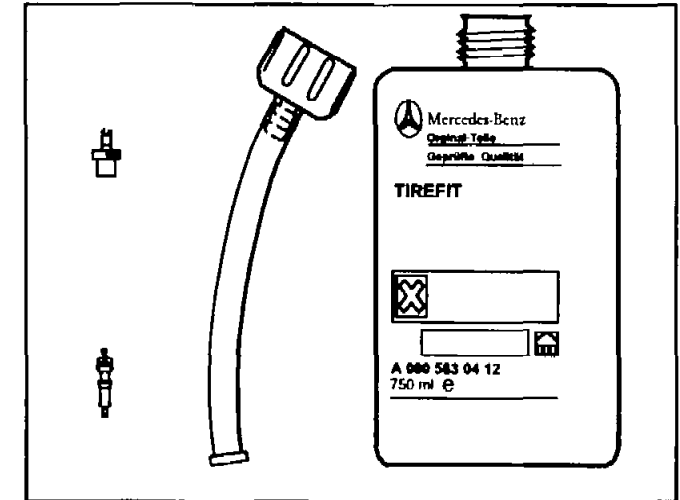
After using TIREFIT sealant, the customer is required to go immediately to the next Mercedes-Benz service station to replace the damaged tire with a new one.

- Tires which have already been treated with TIREFIT sealant must not be repaired. They must be replaced by a new tire of the same make.
- To avoid any unpleasant odor caused by TIREFIT, release the tire pressure in the open air.
- The tire sealant must not come into contact with skin, eyes or clothing. In the event of contact rinse immediately with plenty of clean water.

If allergic reactions occur, consult a doctor.

Keep tire sealant away from children. If tire sealant is swallowed, induce vomiting and consult a doctor immediately.

Risk of fire. Fire, naked flame and smoking forbidden. Avoid creating sparks. Do not inhale vapors.




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Laws governing waste

- Dispose of used or out-of-date TIREFIT in a container for paint residues (refer to Workshop equipment manual, Volume 2, Chapter U, Group 00 (22), subject 2.3).
- TIREFIT sealant may be kept for 2 years.



F18 AH40.10-P-1050-01A	General information on disc wheel/tire conversions	Models 124, 129, 140, 163, 168, 170, 201, 202, 208, 210, 220	
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In the Federal Republic of Germany, different tire sizes which are not entered in the vehicle documents must be added to the vehicle documents (vehicle title and vehicle registration papers) by the motor vehicle registration office. For this a positive expert's report is required from a specialist of an officially recognized test center (Technical Inspection Agency). As a rule these expert's reports are available for conversion options approved by Mercedes-Benz from the test centers.

In other countries the national laws and regulations should be observed.

Light-alloy wheels are only mandatory if the restriction **On light-alloy rim** is stated in the vehicle documents under para 33 to 20-23.

The designation **On light-alloy rim** in the vehicle documents does not necessarily mean an aluminum rim.

For special wheels there is special "Certification for a vehicle" (ABE) related to vehicle model from the Federal Motor Vehicle Registration Agency. They are usually supplied when the wheel is purchased and are prerequisites for the preparation of the expert's report.

Conditions required in the certification for a vehicle should be taken into account for certain wheel/tire combinations (e.g. changes to body, modifications to vehicle).

The assignment of tire profiles in the speed categories depends on the maximum speed of the vehicle.



G18	AH40.10-P-1050-02A	General information on chassis modifications	Model 124, 129, 140, 163, 168, 170, 201, 202, 208, 210, 220	
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Cover discs or brake dust discs

Cover discs or brake dust discs are available in the accessories trade. These are intended to prevent light-alloy disc wheels becoming contaminated by brake lining dust. These parts must not be installed for the following reasons.

1. The brake discs may heat up excessively under heavy loads due to the lack of air routing. Vapor bubbles form in the brake fluid and the rubber boots are destroyed, resulting in failure of the brake system.
2. Reliable wheel fixing as a result of signs of settling of the cover discs or brake dust discs is not ensured.
3. The reworking of the brake caliper recommended in the assembly instructions is not permissible.

Retrofit installation of spacers to widen track

Spacers are not approved by Mercedes-Benz and must not be installed for the following reasons:

1. The center centering of the disc wheel to the wheel hub no longer takes place.
2. Change in steering geometry (kingpin offset)
3. Negative effects on the steering characteristics and steering wheel self-centering.
4. Increase in wear of wheel bearings and axle joints due to increased lever forces.
5. Insufficient screw-in length of the wheel fixing bolts.
6. Insufficient wheel covering guaranteed in the production condition.
7. Snow chains can only be used to a limited extent.

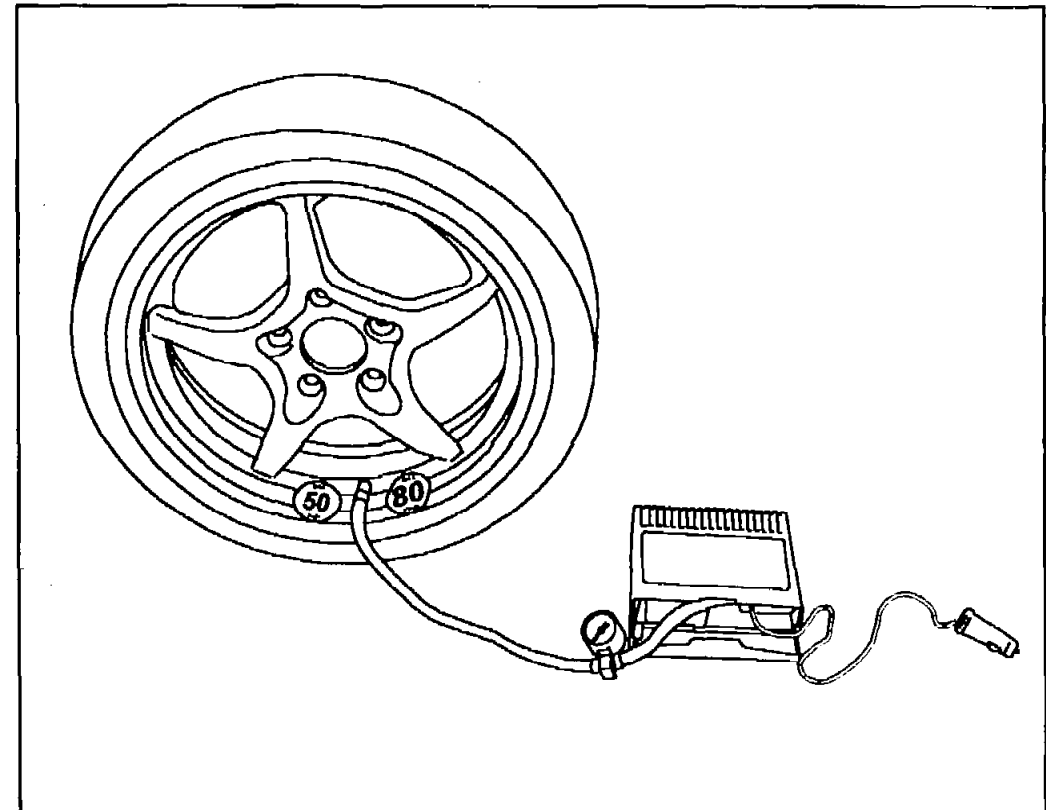
**H18**

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Spare wheel with folding tire**Model 170**

The spare wheel with folding tire is a space-saving alternative to the conventional spare wheel. It enables the driver to get to the nearest Mercedes-Benz service station after a tire failure.

- After using the spare wheel, simply let the air out of the folding tire, the folding tire folds up again completely and can be reused by the customer.
- The maximum speed with the spare wheel with folding tire fitted is 80 km/h.
- The tread depth of a new folding tire is 3 mm. The wear limit is reached at 1.6 mm.
- **With 16" tires, use the wheel bolts supplied for the spare wheel with folding tire and keep with the spare wheel after use.**
- A defective spare wheel with folding tire cannot be repaired. Dispose of the spare wheel with folding tire in the same way as a standard light-alloy wheel or tire.



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J18

AH40.10-P-0004-01A

Notes on spare wheel**Models 208, 220**

- **Models 208, 220:** Every vehicle is equipped with a minimum weight light-weight design spare wheel.

Model 208: 7Jx16 ET37 with 205/55 R 16 full-size tire


Model 220: 7,5 Jx17 H2 ET 51 with 225/60 R 16 full-size tire
or 7,5 J x17 H2 ET 51 with 225/55 R 17 full-size tire

This wheel is designed for a limited life of a maximum of 20 000 km and should not be used as a normal wheel.

When replacing tires, the spare tire can be fitted to a wheel if the tire is of the same design as the wheels. If the tire is more than 6 years old, it should only be used in the event of a tire failure.

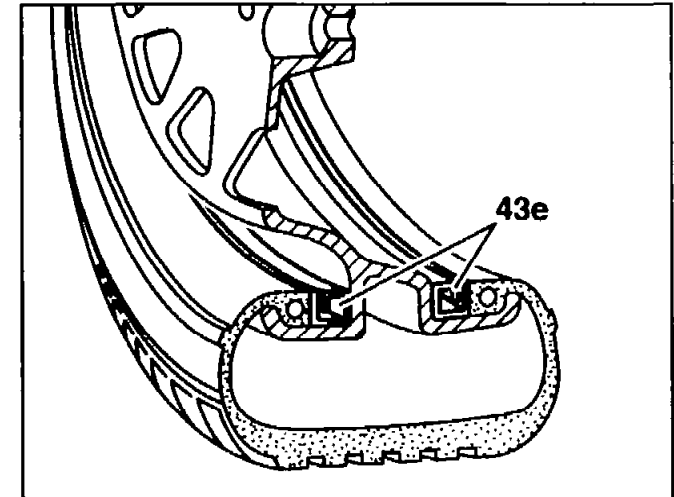
- The vehicle must not be used with more than one lightweight design spare wheel.
Have the lightweight design spare wheel replaced by a normal wheel at the next Mercedes-Benz service station.
- If the lightweight design spare wheel is fitted to vehicles with 245/45 R 18 tires, a change in handling characteristics must be expected due to the different tire dimensions.
Have the lightweight design spare wheel replaced by a normal wheel at the nearest Mercedes-Benz service station.



K18 AH40.10-P-1060-01A	General information on Continental Tyre System (CTS)	Model 140 Model 140 special protection vehicles with C-Tyre System (CTS) tires	
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The Continental Tyre System (CTS) is a tire system capable of use for emergency running.

Special disc wheels are used on which the tire abuts the radial inner side of the rim shoulders. Support rings (43e) prevent the tire coming off the disc wheel in the event of air loss.

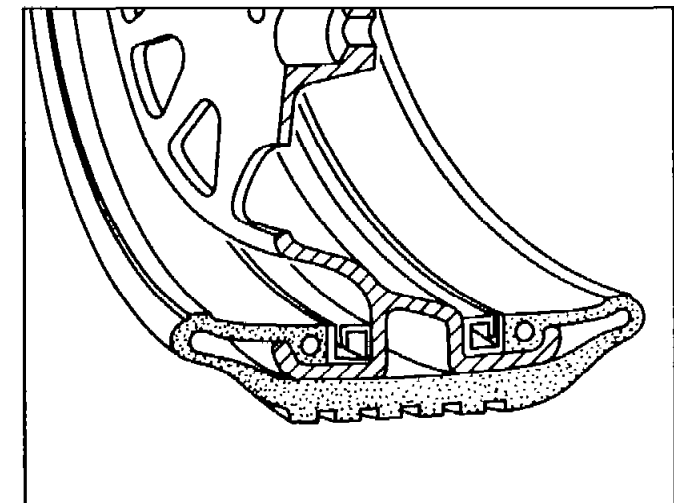


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Even with complete loss of air, a distance of up to 200 km can be covered at a maximum speed of 80 km/h. The inside of the tire is supported by the rim shoulders when this happens.



The tires cannot be replaced with the normal workshop equipment. Therefore replace the wheels completely. Complete wheels are available for this.



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