

Installation Instructions

Conversion to 16-inch tyres and 7 1/2 J × 16 H 2 ET 40 disk wheel 40.11

Model 124

Excluding vehicles with special bodywork, sedans with long wheelbase and 124.031/036/051/091/290/393.

All the work described in sections A, B, C, D, and E must be carried out in full before the wheel/tyre combination may be used.

The installation instructions are divided up into the following sections:

- A. Permitted tyre combinations
- B. Detaching the standard wheels
- C. Modifications to the body
- D. Fitting the special wheels
- E. Correction of tyre inflation pressure
- F. Technical details
- G. Information for ordering replacement parts



Note

An entry in the vehicle documents is required in the Federal Republic of Germany. For this a copy of the respective sample report must be submitted to the TÜV/TÜA.

A. Permitted tyre combinations

Model	Front axle	Rear axle	Comments
124.02/030/04/050 124.12/13 124.226/230 124.330/333	205/55 R 16	205/55 R 16	All Sedans, Coupés, (including 4MATIC, excluding 24 V)
124.08/090 124.18/19	205/55 R 16	225/50 R 16	All T-Sedans (excluding 4MATIC and 24 V)

B. Detaching the standard wheels

- 1 Remove wheel covers on steel disk wheels.
- 2 Slacken wheel bolts.
- 3 Raise vehicle.
- 4 Unscrew wheel bolts.

Note

When unscrewing the final wheel bolt be sure that the wheel does not suddenly tilt off the hub.

- 5 Remove wheel.

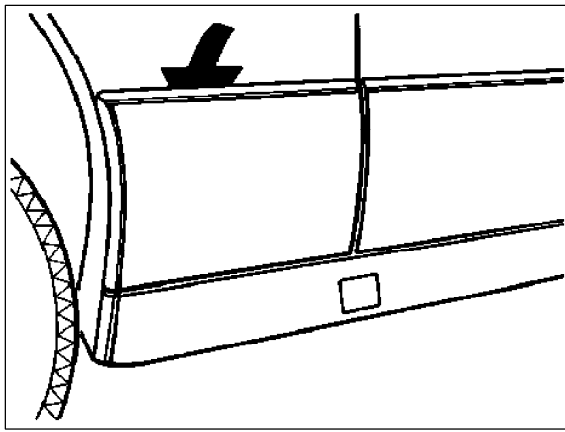
M

Five of the standard wheel bolts removed must be retained for the spare wheel.

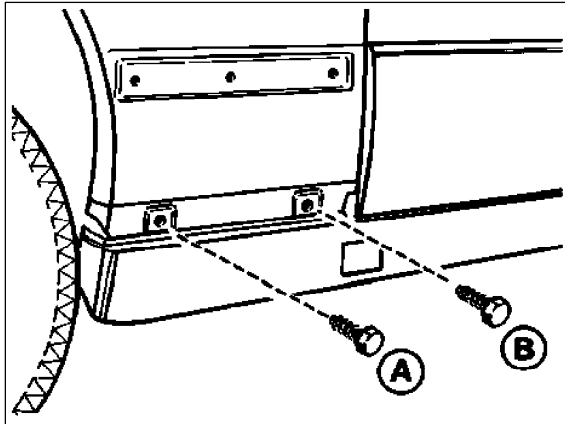
C. Modifications to the body

- 1 Adjusting the front fender

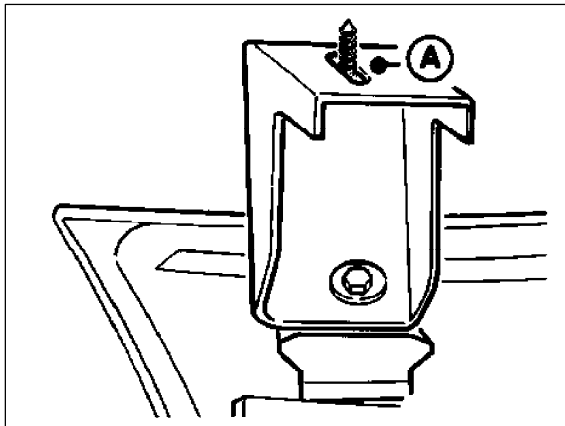
1.1 Detach side panel on the front fender from the fixing elements, pull to the rear and remove.

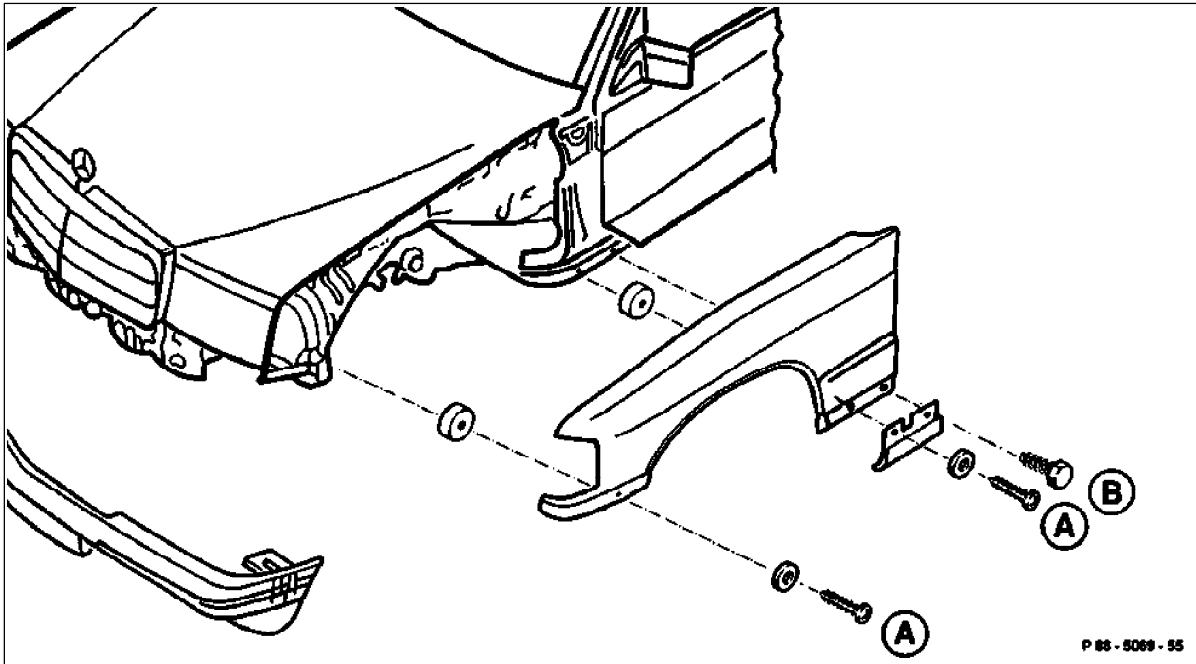


1.2 Unscrew bolts (A and B) on fender.



1.3 Slacken bolt (A) on side of bumper.





1.4 Press the side part of the bumper downwards and unscrew the bolts for fender fixing (A and B). Clamp a spacer between fender and body on the left and the right. The bore holes must align to permit troublefree fixing.

1.5 Place one spacer on the left and right between the fender and body in the side area of the bumper.

1.6 Tighten all bolts slightly in accordance with layout. Tighten bolts after a visual inspection.

2 Reworking the body at the front fenders

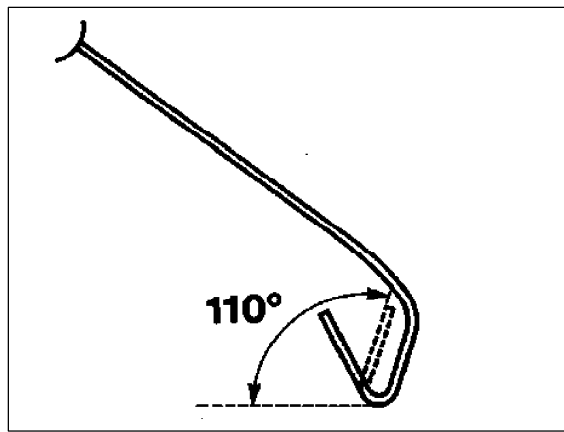
2.1 Flattening down front fender flange:
When converting to wider wheels and tyres the inside edges of the front fender must be flattened down to an angle of 110° over the complete wheel cutout.

2.2 If excessive PVC underbody protection has been applied, grind off excess before folding back the fender flange.

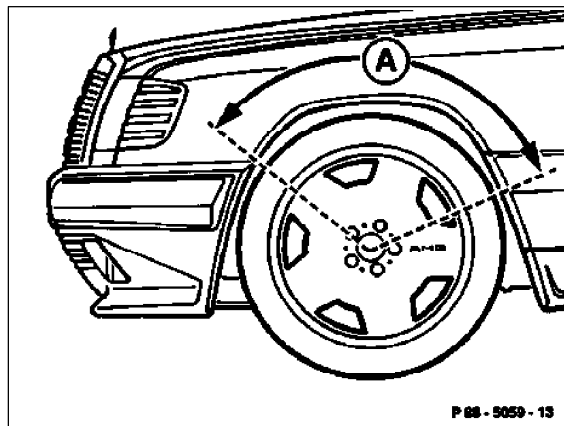
2.3 Using a hot air gun carefully heat up outer edges of fender to a maximum of 70° - 80°C.

Note

Do not overheat paint whilst applying heat (max. 80°C).



2.4 In the marked area (A), the fender flange is flattened down up to the inside of the fender in several stages. A plastic hammer must be used to avoid damaging the paint.

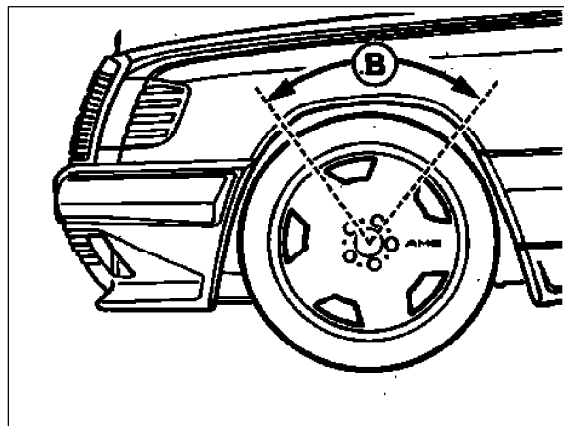


2.5 Allow front fender flare to curve smoothly back towards original, unflared line within the marked area (B).

Note

Rectify any damage to paint or underbody protection.

2.6 Grind off side panel to match the reworked fender contour and assemble.



3 Folding back the edge of rear fender

3.1 If excessive PVC underbody protection has been applied, grind off excess before folding back the edge of the fender.

3.2 Using a hot air gun carefully heat up outer edges of fender to a maximum of 70° - 80°C.

Note

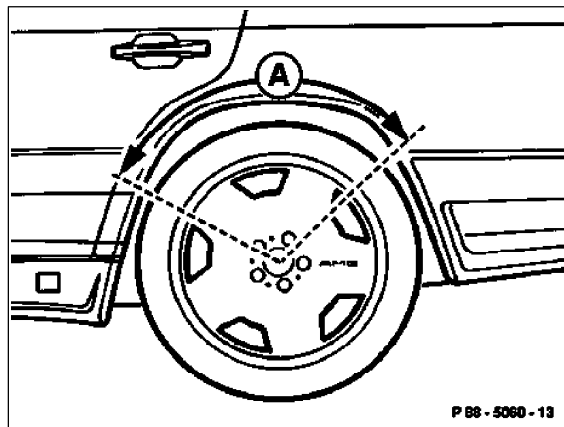
Do not overheat paint whilst applying heat (max. 80°C).

3.3 In the marked area (A), the edge of the fender is flattened down as far as the inside of the fender in several stages.
A plastic hammer must be used to avoid damaging the paint.

Note

Rectify any damage to paint or underbody protection.

3.4 Treat wheel arch again with underbody protection. Spray the folded back fender edges with body cavity preserver.



D. Fitting the special wheels

- 1 Screw in centering bolts (tool kit) in upper tapped hole of the wheel hub.
- 2 Put on AMG light alloy wheel and press onto wheel hub.
- 3 Screw in wheel bolts and tighten positively. The wheel bolts must be dry and free from grease. Ensure that the wheels are not tensioned by tightening the wheel bolts on one side. (Tighten wheel bolts diagonally in several stages).

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Only M12 x 1.5 x 40 mm spherical collar bolts supplied with the rims are to be used for the wheel fixing.

- 4 Unscrew centering bolt and replace by a wheel bolt.
- 5 Lower vehicle.
- 6 Evenly tighten wheel bolts diagonally to a tightening torque of 110 Nm.

M

AMG light alloy wheel bolts must be retightened after 100-500 km. (Tightening torque 110 Nm).

Note

Fitting snow chains is not permitted.

E. Correction of tyre inflation pressure

- The minimum tyre inflation pressures required can be obtained from the tyre inflation pressure table (appendix).
- The front axle or rear axle tyre inflation pressures determined are to be noted on the AMG sticker using a waterproof felt tip pen. Attach sticker to a suitable point on the loading edge of luggage compartment.

F. Technical details

Manufacturer:	AMG/RUOTE OZ
Model:	C 7 40 0119
Wheel size:	7 1/2 J × 16 H 2
Offset:	40 mm
Pitch circle:	d=112 mm, 5 hole
Permitted wheel load:	615 kg at r _{dyn} =307 mm
Centering:	Central centering d=66.5+0.1
Type:	One-piece light alloy wheel with double hump
Marking:	Outer side of wheel: AMG Germany C 7 40 0119 7 1/2 J × 16 H 2 ET 40 Inner side of wheel: RUOTE OZ (foundry symbol) and date of manufacture
Valves:	Metal screw-on valves in accordance with DIN 7779 with long nut
Fixing:	Only with M12 x 1.5 x 40 mm spherical collar bolts supplied by the wheel manufacturer
Tightening torque:	110 Nm
Balance weights:	Only adhesive weights are permitted

G. Information for ordering replacement parts

Replacement parts

Designation

Part no.

Light alloy disk wheel 7 1/2 J × 16 H 2 ET 40	B6 602 00 57
Wheel trim	B6 602 00 96
Spherical collar bolt L=40 mm	H WA201 401 02 70
Valve	H WA201 400 01 13
Tyre pressure sticker	H WA201 584 00 39
Fender extension kit	B6 602 00 72

Note

A set of wheel locking bolts
(Part no. B6 602 02 01) can be supplied upon
request.

Conversion to AMG 7 1/2 J × 16 H 2 ET 40 disk wheel

Refer to page 2 for tyre dimensions.

Passenger car

Model 124 sedan/coupé/T-model

The appendix is divided up into the following sections:

- A. Assignment of tyre make/model
- B. Specified minimum tyre inflation pressures

A. Permitted makes of tyre

Make	Description	Vehicle model 124		
		Sedan	Coupé	T-model
Bridgestone	RE 71	X	X	X
Michelin	MXX	X	X	X
Dunlop	SP Sport D 40	X	X	X
Pirelli	P 700 Z	X	X	X
Pirelli	P 700/P 7	X	X	not permitted
Goodyear	Eagle VR/NCT	X	X	not permitted

B. Specified minimum tyre inflation pressures (bar)

Vehicle model: 124 sedan/coupé/T-model

Permitted maximum speed V_{max} (km/h) ¹⁾	Front axle		Rear axle			
	Permitted front axle load (kg) ¹⁾		Steel suspension		Level control system	
	up to 1015	up to 1055	Perm. rear axle load (kg) ¹⁾ 205/55 up to 1025	225/50 up to 1230	205/55 up to 1025	225/50 up to 1230
210	2.8	2.7	3.1	3.0	2.9	2.8
220	2.9	2.8	3.2	3.1	3.0	2.9
230	3.0	2.9	3.3	3.2	3.1	3.0
240	3.1	3.0	3.4	3.3	3.2	3.1
250	3.2	3.1	3.5	3.5	3.3	3.2
Max. wheel camber angle (degrees)	- 1°30'		- 4°		- 2°30'	

1) Values for maximum speed and permitted front axle or rear axle loads can be obtained from the vehicle documents.

Comments:

- Tyre inflation details only apply for vehicles with a maximum speed of up to 250 km/h.
- The tyre inflation pressure can be reduced by $p = 0.1$ (bar) per 100 kg reduction in axle load.
- Remember that tyre inflation pressure details only apply for cold tyres!
- On warm tyres values of up to 0.5 bar higher are permissible. Do not reduce pressure of warm tyres! Tyre inflation pressure may only be corrected when tyres are cold!
- Tyre inflation pressure details relate to the use of permitted maximum speed and permitted axle load.