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A. Models 124 and 201 with level control

32 Suspension

32-87061	Poor suspension characteristics at rear axle	Model 124 with level control
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Cause

When driving with little load on the rear axle, the supply of the necessary basic pressure to the suspension elements (spring actuators and spring struts) is dependent on internal leakage in the level controller. With deteriorating basic pressure and the level control point under load at the lower tolerance limit, this may result in the following complaints:

- a) Rear suspension and damping too soft.
- b) Rumbling noises on poor road surfaces.
- c) Vehicle level at rear too low in ready-to-drive condition.

Remedy

Check basic pressure at level controller (32-0530).

Level controllers whose basic pressure decreases after a stabilization period of 5 minutes (on 2nd reading) and a subsequent minimum test period of one hour, must be replaced.

Check vehicle level under load (control point) and adjust nominal value if necessary.

32 Suspension

32-88015	Knocking noise at rear axle	Models 124 and 201 with level control
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1. Cause:

Occurs on uneven road surfaces and with low rear axle load; no longer heard as load increases. If the vehicle level at the rear axle is too high on a vehicle in ready-to-drive condition, whilst at the same time the level in the loaded condition is set below the permissible tolerance limits, such a condition will result in long uncontrolled spring travel. The level controller will then rarely be within the filling range and will therefore no longer balance a reduced basic pressure.

2. Remedy:

1. Check level controller and replace if necessary.
The basic pressure must not drop within four hours.
2. Adjust vehicle level at rear axle under load (40-0310).
3. Check ball joint on spring struts for absence of play by removing spring strut. If play is evident, replace spring strut.

32 Suspension

32-88096	Vehicle level drops uncontrollably, vehicle level too low at rear or no basic pressure in system	Model 124 with level control or ASD/4matic
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Cause

In the production period March/April 1988, these vehicles were fitted with Argus high-pressure expansion hoses. These hoses may release particles of plastic on the inside.

This can cause internal leakage in the level control, ASD or 4matic systems. To check whether plastic particles have been released in the high-pressure expansion hose, remove and inspect the filter element for the hydraulic oil in the oil reservoir.

Remedy

1. Remove high-pressure expansion hose.
2. Disconnect all pressure lines.
3. Remove level controller.
4. Flush out all pressure lines with compressed air.
5. Replace high-pressure expansion hose, level controller, oil reservoir filter element and hydraulic oil.

32 Suspension

32-91051	Rumbling and knocking noises at upper spring strut mounting on rear axle	Model 124 T-model
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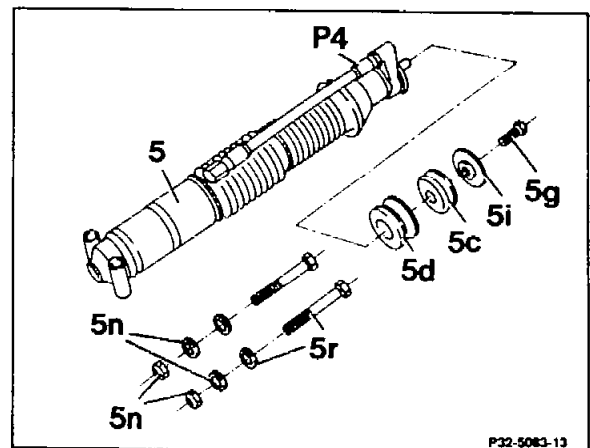
Affected vehicles: from vehicle ident. end no. 1F-171150 to 1F-178239.

Cause

Insufficient preload in upper spring strut mounting due to omission of metal insert in lower rubber mount.

Remedy

Install lower rubber mount part no. 123 328 83 81 with metal insert (5d) in upper spring strut mounting.



32 Suspension

32-91056	Knocking and hissing noises during acceleration and during suspension movements	Models 124 and 201 with level control
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1. Cause:

These noises are caused by the pressure-relief valve in the level controller.

2. Remedy:

1. Check level controller. If maximum pressure is less than 133 bar, replace level controller. On vehicles with standard suspension which are consistently driven with a high rear axle load, stiffer rear springs can be installed to relieve the level control system (refer to Repair Instructions, Technical Data Manual, or Parts Microfilm).
2. Adjust vehicle level at rear axle under load (40-0310).

32 Suspension

32-91057	Spring strut leaking	Models 124 and 201 with level control
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Note

A slight escape of oil at the piston rod seal is part of the design for lubricating the piston rod and is therefore normal.

Remedy:

1. Check line connections on spring strut.
2. Check level controller and replace if necessary. At low basic pressure the piston rod seals operating as pressure seals show a tendency towards higher oil leakage.

32 Suspension

32-91059	Suspension at rear axle too hard, vehicle too soft at rear axle (floats)	Models 124 and 201 with level control
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Remedy:

1. Check level controller and replace if necessary (32-0530).
The basic pressure must not drop within four hours.
2. Insufficient gas pressure in spring actuator.
Replace spring actuator (32-0620).
3. Replace spring struts (32-0610).
(For correct version, refer to Repair Instructions, Technical Data Manual, or Parts Microfilm.)

32 Suspension

32-91066	Vehicle level in ready-to-drive condition too high at rear axle	Models 124 and 201 with level control
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Remedy:

1. Adjust vehicle level at rear axle under test load.
2. Check matching of rear springs to rubber mounts. Incorrect rear springs or excessively high rubber mounts may have been installed. In installed position, measure wire thickness of rear springs. For test data of springs, refer to Repair Instructions, Technical Data Manual, or Parts Microfilm.
3. Check level controller (32-0530).
Replace level controller if basic pressure is too high.

32 Suspension

32-91067	Vehicle level in ready-to-drive condition too low at rear axle	Models 124 and 201 with level control
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Remedy:

1. Check matching of rear springs to rubber mounts. Incorrect rear springs or excessively low rubber mounts may have been installed.
2. Check level controller (32-0530).
Replace level controller if basic pressure is too high.

32 Suspension

32-91068	Vehicle level too low with load on rear axle	Models 124 and 201 with level control
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Remedy:

1. Adjust vehicle level at rear axle under test load.
2. Check pressure oil pump and level controller (32-0530).
Replace level controller if maximum pressure is below 133 bar.

32 Suspension

32-91069 Vehicle fails to rise at rear axle

Models 124
and 201 with
level control

Remedy:

1. Check that oil filter is clean (32-0630).
2. Check oil level in oil reservoir (32-0630).
3. Check pressure oil pump and level controller (32-0530).

32 Suspension

32-91076 Vehicle drops at rear axle

Models 124
and 201 with
level control

Remedy:

1. Check spring struts for external leaks.
2. Replace level controller (32-0670).

B. Models 201.034/035/036

32 Suspension

32-92026	Vehicle fails to rise at front and rear axles Vehicle fails to rise at rear axle	Models 201.034/035/ 036
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Remedy:

1. Check that oil filter is clean (32-0630).
2. Check oil level in oil reservoir (32-0630).
3. Check pressure oil pump, distributor valve and level controller (32-0537).

32 Suspension

32-92027	Vehicle fails to rise at front axle	Models 201.034/ 035/036
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Remedy:

1. Check that oil filter is clean (32-0630).
2. Check oil level in oil reservoir (32-0630).
3. Check front axle spring struts for leaks (32-0515).
4. Check pressure oil pump, distributor valve and level controller (32-0537).

32 Suspension

32-92036	Vehicle drops at rear axle	Models 201.034/ 035/036
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Remedy:

1. Check spring struts for external leaks.
2. Replace level controller (32-0670).
3. Check distributor valve for internal leaks (32-0550).

32 Suspension

32-92037	Vehicle drops at front axle	Models 201.034/ 035/036
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Remedy:

1. Check spring struts for external leaks.
2. Replace level controller (32-0670).
3. Check distributor valve for internal leaks (32-0550).