

Rear Suspension

1962-72 MERCEDES-BENZ SINGLE PIVOT TYPE

190 C, 190 D (1962-65)
 200, 200 D (1965-67)
 220 B, 220 SB, 220 SEB (1962-65)
 230, 230 S, 230 SL (1962-68)
 250 S, 250 SE, 250 SL (1965-67)
 280 S/8, 280 SE/8, 280 SEL/8 (1968-72)
 280 SL/8, 280 SE/9 3.5 (1968-72)
 300 SE (1962-65)
 300 SEB, 300 SEL (1965-67)
 300 SEL/8, 300 SEL/8 6.3 (1968-72)
 300 SEL/9 3.5 (1969-72)

DESCRIPTION

Rear suspension is independent with coil springs. Strut rods are attached to axle housings and run forward to body. Shock absorbers are centered in coil springs and mounted between body and strut rod. Differential is mounted to body by an axle carrier and lateral movement is controlled by a cross strut. Stabilizer bar is attached to frame and wheel hubs at ends.

ADJUSTMENT

WHEEL ALIGNMENT SPECIFICATIONS & PROCEDURES

See *Wheel Alignment Specifications and Procedures* in **WHEEL ALIGNMENT** Section.

REMOVAL & INSTALLATION

SHOCK ABSORBERS

NOTE — Rear shock absorbers serve as deflection stops for rear wheels. Shock absorber should be removed only when vehicle is on wheels or when axle housing or strut rod is supported.

Removal — Remove nuts, washer and rubber ring from shock upper mount, mount is inside trunk compartment. On 280 SL/8, upper mount is accessible from top box when roadster top is closed. Remove coupe top if applicable. Disconnect lower shock from mount on axle housing and remove shock in a downward direction.

Installation — To install rear shock absorber, reverse removal procedure and tighten to specifications.

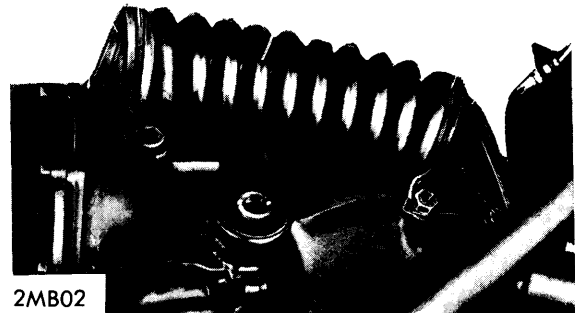
COIL SPRINGS

Removal — Raise and support rear of vehicle with safety stands. Place jack under strut rod and support. Remove nut on front strut rod support, carefully lower jack and remove coil spring.

Installation — To install rear coil springs, reverse removal procedure.

COMPENSATING SPRING

NOTE — When removing compensating spring or hydropneumatic spring, axles should not be subject to loads.



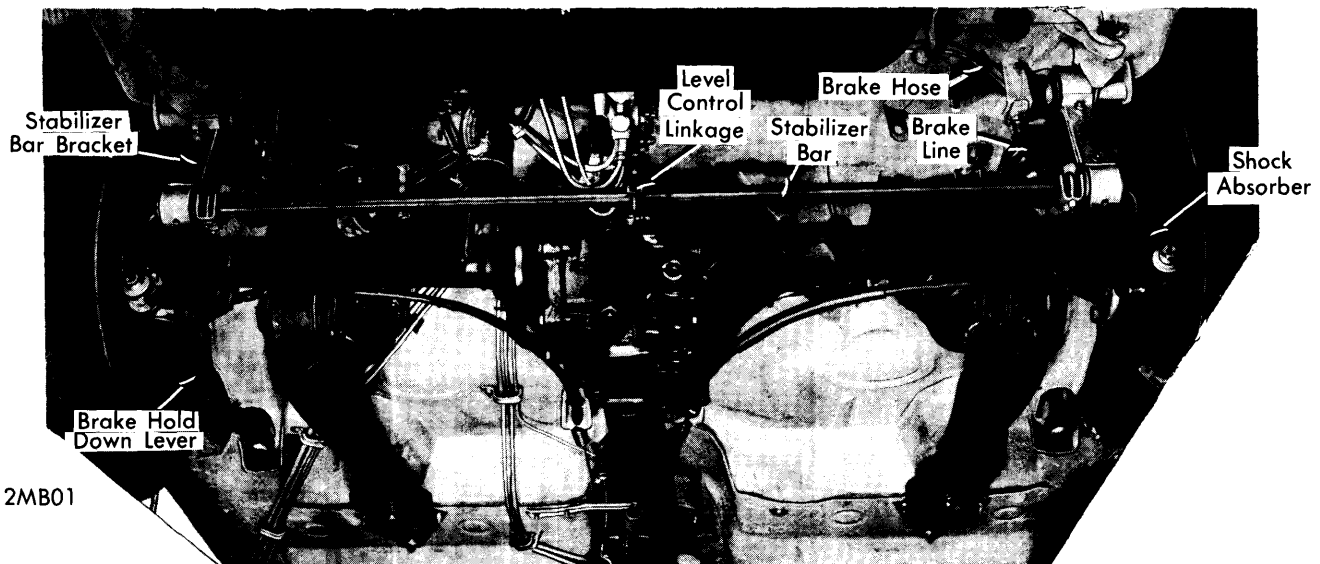
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COMPENSATING SPRING

Removal — 1) Using suitable spring compressor (11 589 00 31) compress compensating spring until free of right hand carrier. Remove right hand carrier bolts and remove spring.

2) For hydropneumatic compensating spring, remove right hand carrier bolts. Remove nut on left side and remove hydropneumatic spring.

Installation — To install compensating spring or hydropneumatic compensating spring, reverse removal procedure. Tighten nuts and bolts to specifications.



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REAR SUSPENSION (TYPICAL)

1962-72 MERCEDES-BENZ SINGLE PIVOT TYPE (Cont.)

STABILIZER BAR

Removal — Raise and support rear of vehicle with safety stands, remove wheels. Disconnect stabilizer bar from wheel hubs on both sides of vehicle, disconnect bar from holding brackets and remove stabilizer bar from vehicle.

Installation — To install stabilizer bar, reverse removal procedure.

CROSS STRUT

Removal — Remove nut securing cross strut to body mount. Disconnect bolts securing cross to differential and push strut towards rear, remove cross strut with cup washers and rubber bushings.

Installation — Check rubber bushings and replace as necessary. To install cross strut, reverse removal procedure.

REAR SUSPENSION

Removal — 1) Remove stabilizer bar as previously outlined. Remove exhaust pipe. On models 280 SE/9 3.5 and 300 SEL/9 3.5, remove heat shield plate mounted to frame.

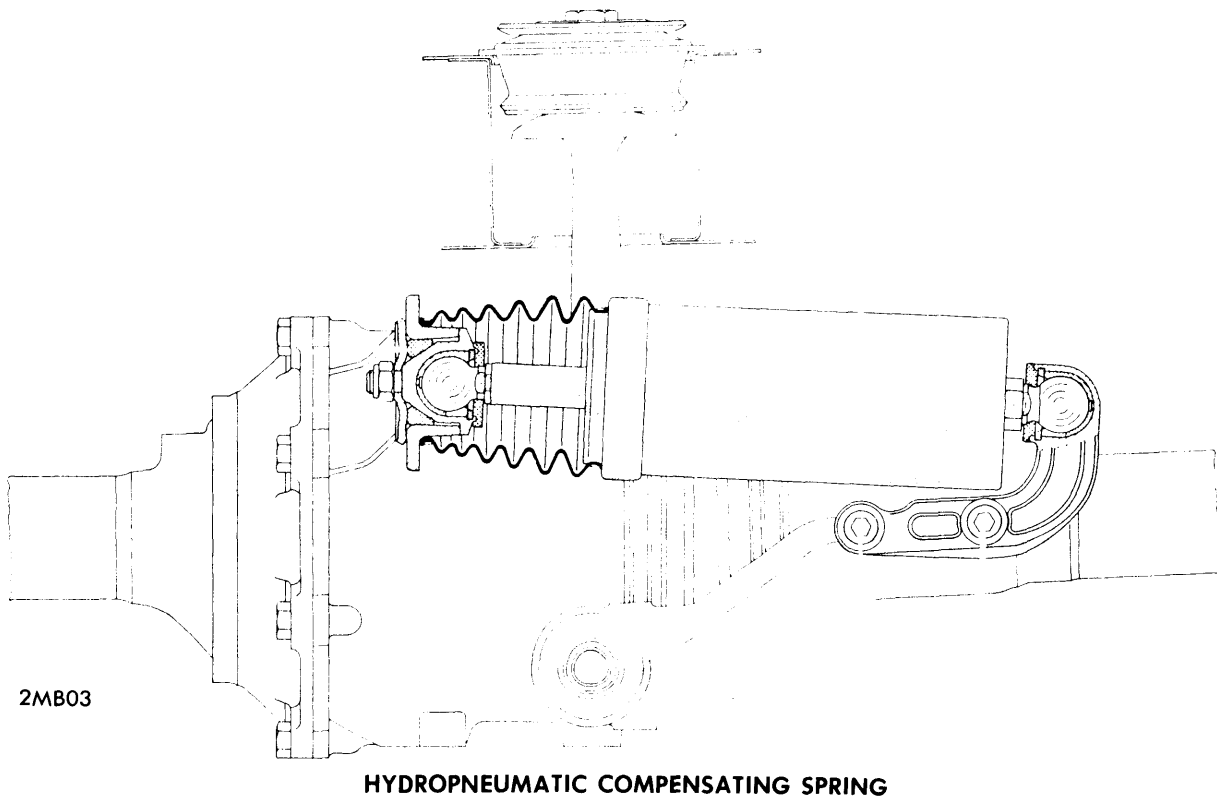
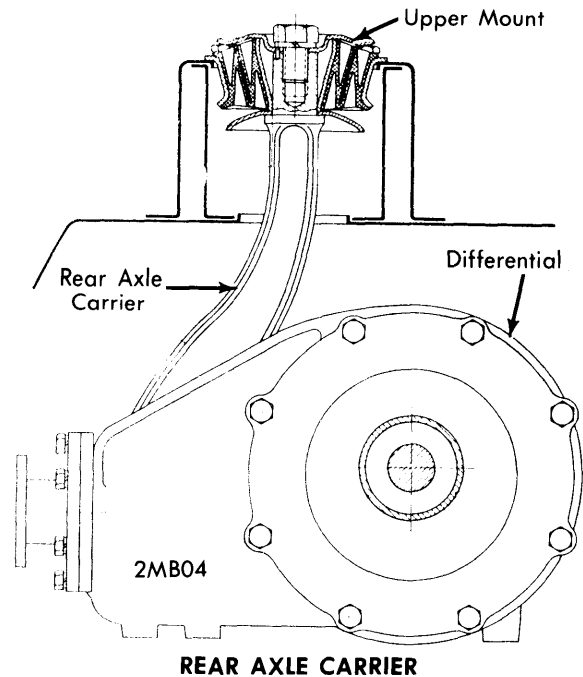
2) Disconnect brake cable controls mounted to frame and compensating lever. Loosen drive shaft intermediate bearing on frame, do not remove bolts completely. Loosen clamping nut on drive shaft. *NOTE* — On three piece drive shaft, loosen front clamping nut only.

3) Disconnect drive shaft from flange of differential and push drive shaft from centered position. Remove compensating spring or hydropneumatic compensating spring, and coil springs as previously outlined. Disconnect and plug brake lines.

4) Disconnect strut rod mounts to body. Disconnect cross strut from differential and push cross strut toward rear of vehicle. Disconnect brake hold-down on chassis by removing castle nut inside vehicle, under rear seat.

5) Disconnect lower shock mounts. Raise axle housings until they are level and attach holding clamp (111 589 07 61). Place jack under rear axle. Remove bolt mounting axle carrier to body from inside trunk (see illustration). Lower jack and remove rear suspension from vehicle.

CAUTION — Holding clamp (111 589 07 61) must be installed when transporting, as well as removing and installing rear axle, to prevent damage to axle housings or slip joint.



Rear Suspension

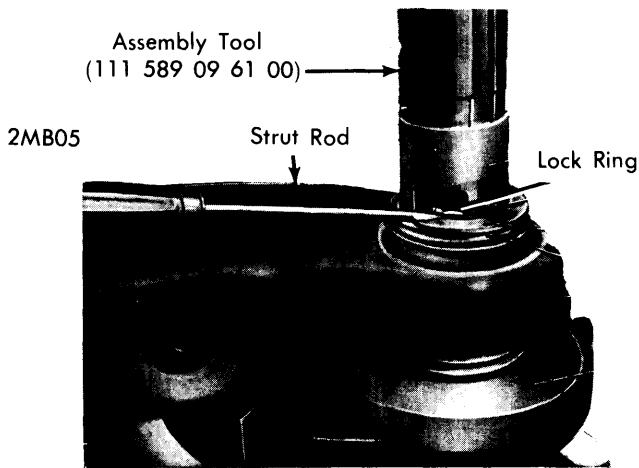
1962-72 MERCEDES-BENZ SINGLE PIVOT TYPE (Cont.)

Installation — To install rear suspension, reverse removal procedure. Tighten nuts and bolts to specifications. Before tightening drive shaft clamping nut, roll vehicle forward and backward a few times and then tighten to specifications.

STRUT ROD

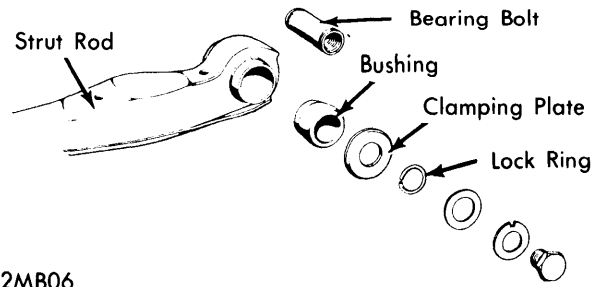
Removal — Remove shock absorber and coil spring as previously outlined. Disconnect strut rod front mount. Remove bolts securing strut rod to axle housing and remove strut rod from vehicle.

Disassembly — Place strut rod into suitable assembly tool (111 589 09 61 00), compress rubber bushing and remove lock ring. Remove washers, bushings and bearing bolt (see illustration).



LOCK RING REMOVAL

Reassembly — Check all parts and replace as necessary. Snap lock ring on bearing bolt. Slide clamping plate and bushing on bolt, force bearing bolt into strut rod. Then slide other bushing and clamping plate on bearing bolt and snap on last lock ring, by compressing rubber bushings with assembly tool (111 589 09 61 00).



STRUT ROD COMPONENTS

Installation — **CAUTION** — Do not mix up strut rods during installation. Strut rods have a holder (for rubber mount) welded to front of strut rod cup and these holders should be toward center of vehicle. Install strut rod on axle housing mounts, insert front rubber mounts in strut rod. Bottom of rubber mount has the word "UNTEN" (bottom) on it and should be downwards. Attach front of strut rod to body with mounting plate, install shock absorber and coil springs as previously outlined. Tighten nuts and bolts to specifications.

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs.
Lower Shock Mounts	33
Compensating Spring Carrier (right)	87
Hydropneumatic Compensating Spring	
Right	58
Left	87
Rubber Mount-to-Carrier	33
Cross Strut-to-Chassis	72
Cross Strut-to-Axle Housing	145
Stabilizer Bar-to-Axle Housing	18
Clamping Nut (Two Part Drive Shaft)	22
Clamping Nut (Three Part Drive Shaft)	
Front	22
Rear	145
Drive Shaft Intermediate Bearing Bolt	14
Carrier-to-Body	87