Lubricants

Centering sleeve, per sleeve approx. 6 grams	refer to specifications for service products page 266.2
Clamp connection	

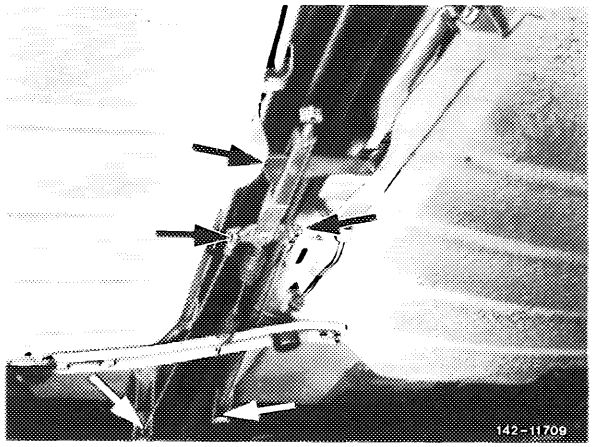
Tightening torques			Nm
Self-locking hex. nuts for fastening companion plates			45
Hex bolts to propeller shaft intermediate bearing			25
Hex bolts for bridges on frame floor		M 8	25
		M 10	45
Clamping nut of propeller shaft	2-piece shaft		30–40
	3-piece shaft	front	30–40
		rear	200
Hex screw for attaching rear engine mount to frame floor		M 10	45
Hex screws for attaching rear engine mount to engine carrier		M 8	25

Special tools

Torque wrench 25–130 Nm with plug-in ratchet 1/2" square		001 589 66 21 00
Torque wrench 40–200 Nm with plug-in ratchet 1/2" square		001 589 67 21 00
Open-end wrench element 46 mm, for plugging into torque wrench		126 589 00 01 00

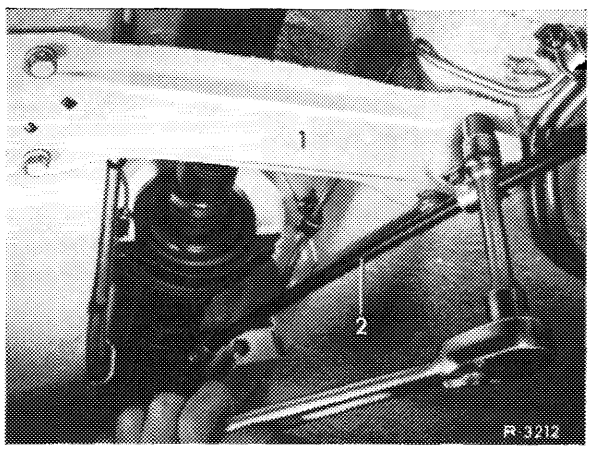
Removal

1 Disconnect cable controls of parking brake on compensating lever and remove compensating lever.



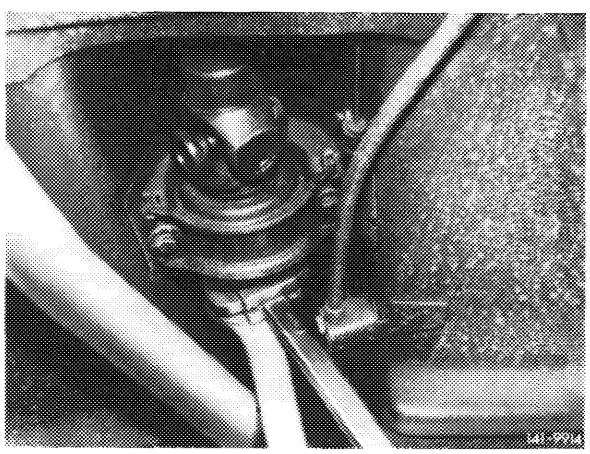
2 Unscrew both bridges (1) on frame floor.

Note: For loosening hex bolt at left on rear bridge, lower rear exhaust line slightly, if required.



3 Slacken clamping nut of propeller shaft for approx. 2 turns without pushing back rubber sleeve (slides along).

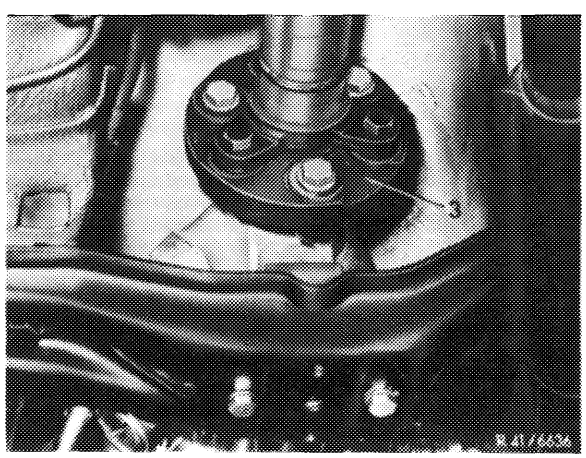
On 3-piece propeller shaft, loosen front clamping nut only.



4 Lift transmission and jack up.

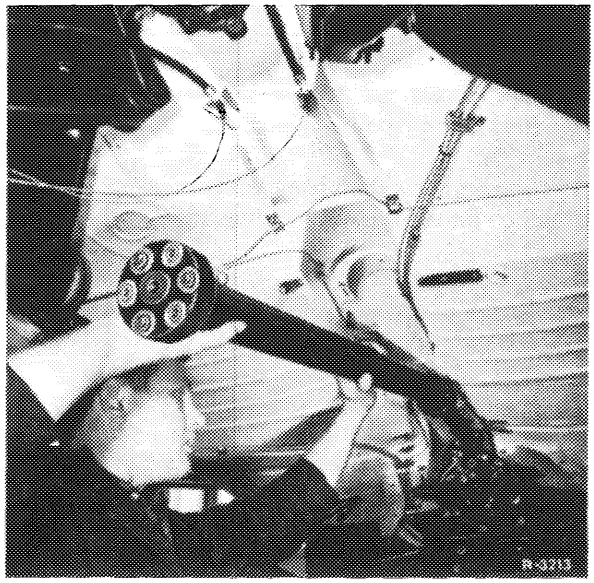
5 Loosen hex screws of rear engine mount and remove.

6 Unflange propeller shaft on universal flange of transmission and of rear axle.



7 Unscrew hex screws for attaching propeller shaft intermediate bearing to frame floor and remove.

8 Force propeller shaft from centering pin of rear axle and remove toward the rear. Make sure that propeller shaft is not separated.



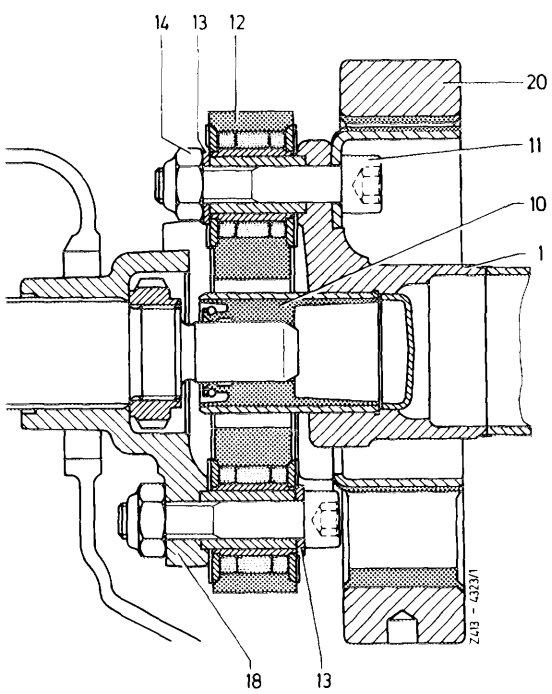
Attention!
If the propeller shaft must be separated, **mark components in relation to each other**, since the universal shaft is fully balanced.

From the middle of August 1975 up to the beginning of December 1975 (starting chassis end no. 027 060 to 040 338) model 115.114 with manual transmission has been provided with a vibration damper (20) at front propeller shaft.

The vibration damper cannot be replaced individually. If defective, exchange complete propeller shaft.

If the vibration damper is separated from universal shaft when replacing companion plate, refer to color code during assembly.

9 Check companion plates, centering sleeves and propeller shaft intermediate bearing for damage, if any. Replace damaged components.

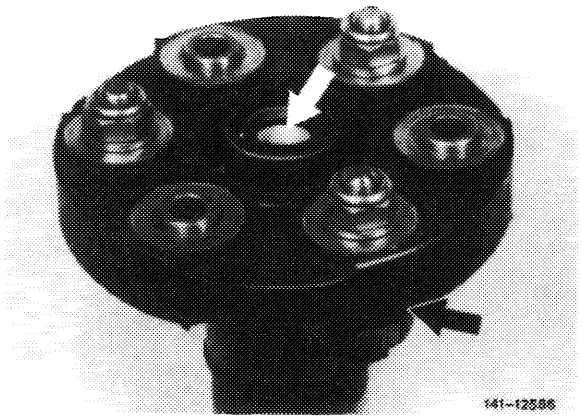


1 Front propeller shaft
10 Centering sleeve
11 Hex socket screw
12 Companion plate
13 Washer
14 Self-locking nut
18 Transmission universal flange
20 Vibration damper

10 Grease cavities of the two centering sleeves with specified grease (approx. 6 grams per sleeve).

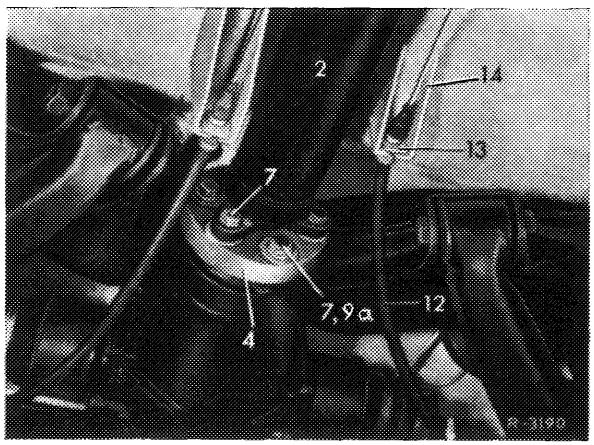
11 Slip propeller shaft complete with companion plates on centering pins on transmission and on rear axle.

12 Attach propeller shaft intermediate bearing to frame floor but do not yet tighten.

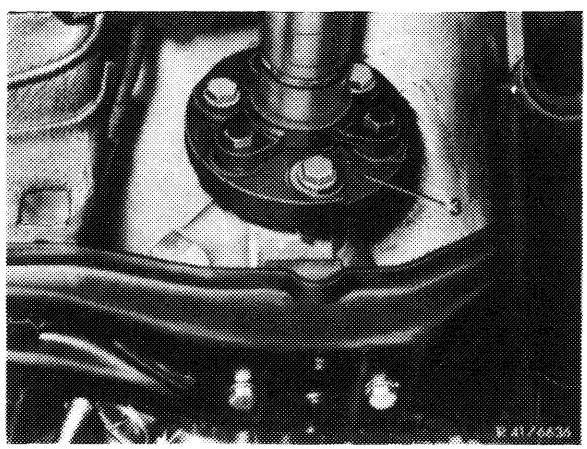


13 Flange propeller shaft to transmission and to rear axle. Tightening torque of self-locking nuts 45 Nm.

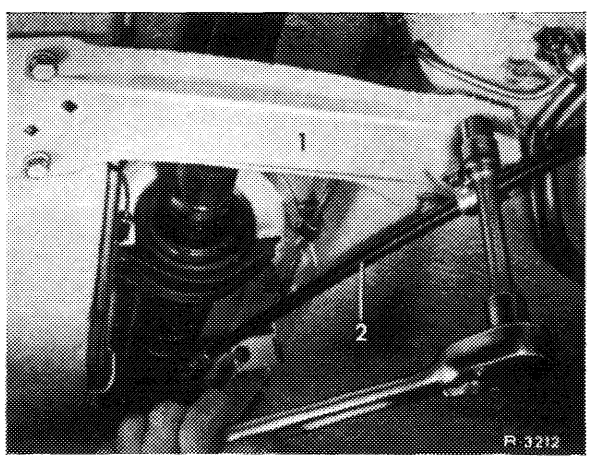
Attention!
Renew self-locking hex. nuts on principle.



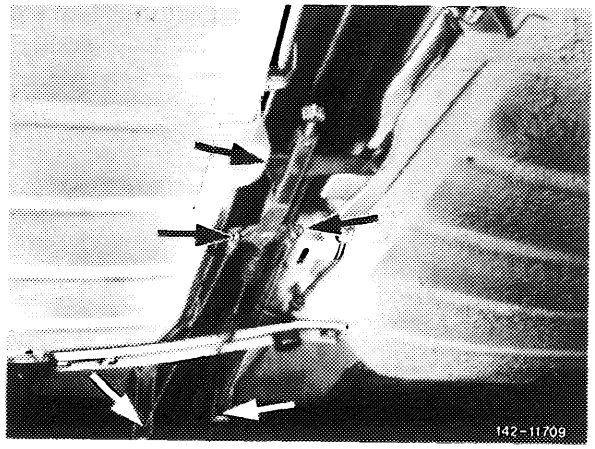
14 Mount rear engine carrier. Tightening torque of hex. bolts M 10 = 45 Nm, M 8 = 25 Nm.



15 Attach both bridges to frame floor. Tightening torque of hex. bolts M 10 = 45 Nm, M 8 = 25 Nm.

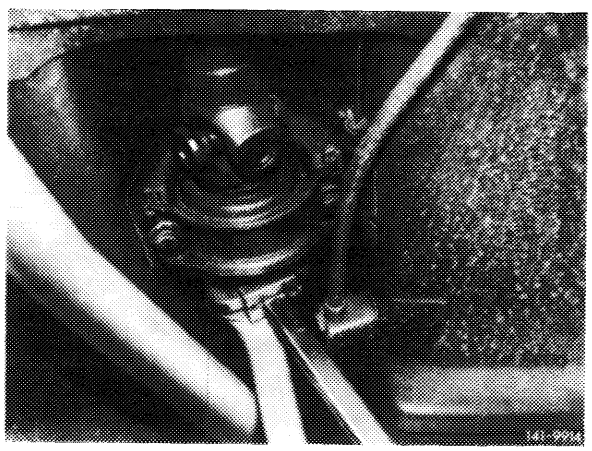


16 Attach cable controls of parking brake and adjust (42–525).



17 Tighten clamping nut on propeller shaft while paying attention to good seat of sleeve. Tightening torque of 2-part propeller shaft 30–40 Nm, on 3-part front propeller shaft 30–40 Nm and on rear shaft 200 Nm.

Note: Prior to tightening clamping nuts on 3-part propeller shaft, make sure that the intermediate shaft is not abutting against front nor against rear propeller shaft intermediate bearing. At its ends, the intermediate shaft should have approx. the same distance from respective intermediate bearing.



18 Tighten hex bolts for attaching propeller shaft intermediate bearing to frame floor to 25 Nm.