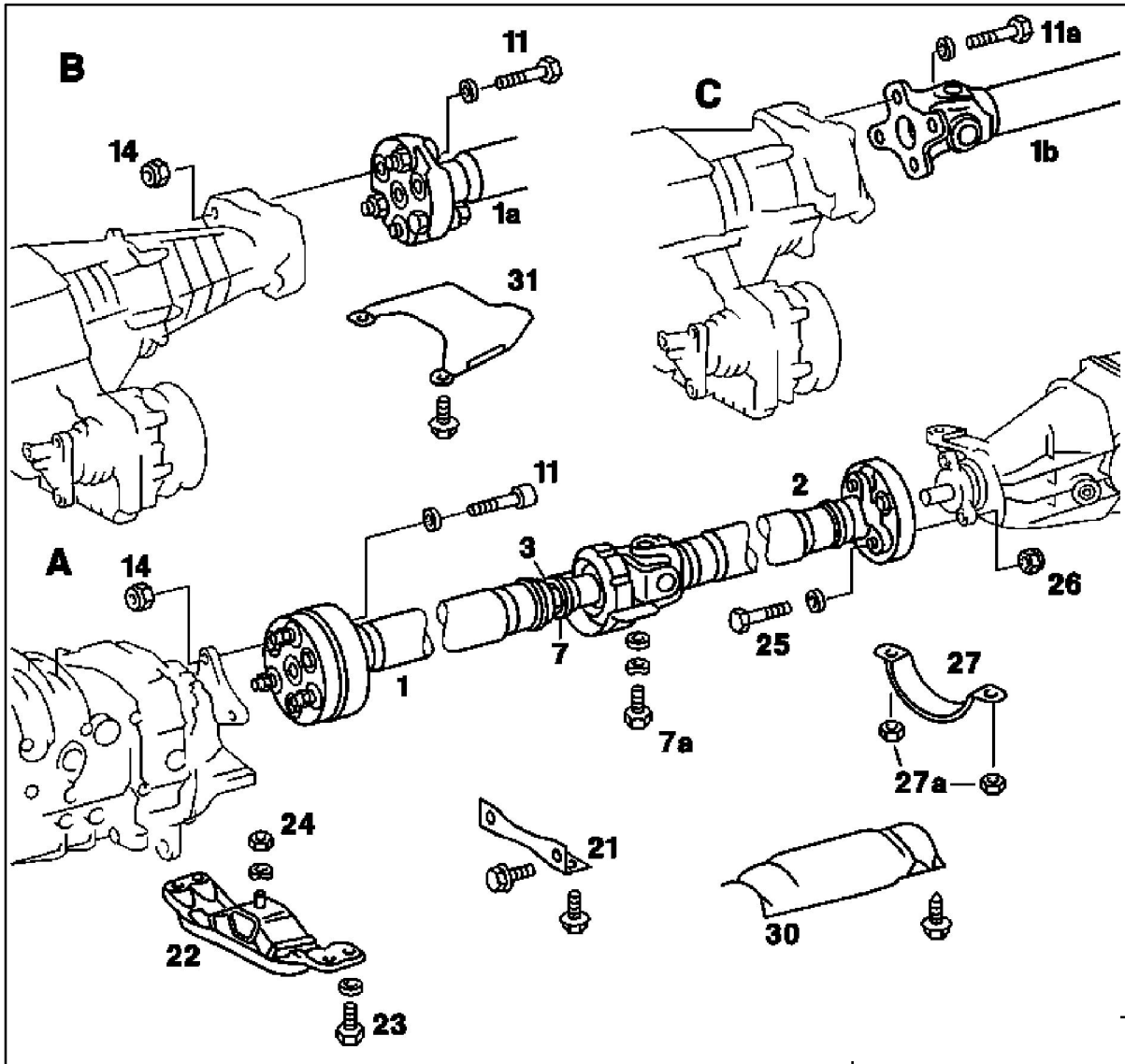


D. Model 124

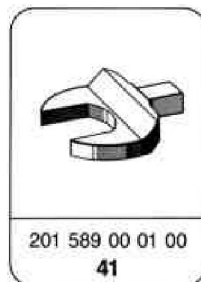
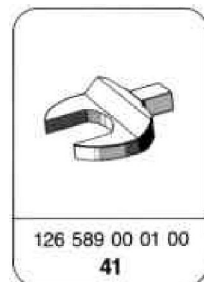


Versions: A Standard
 B Models 124.2, 124.330, 393
 C Model 124.333

Exhaust shielding plate (30), 4MATIC (31) _____ screw off and on (items 1, 2).
 Transmission _____ lift, support, lower.
 Engine carrier (22) _____ screw off and on, (not with 4MATIC)
 Hex. head screws (23) 45 Nm,
 hex. nut (24) 70 Nm (item 4).
 Cross bridge (21) _____ Unscrew, screw on, 25 Nm (item 5).
 As of 09/89 bracket (27) _____ Unscrew, screw on (item 12).

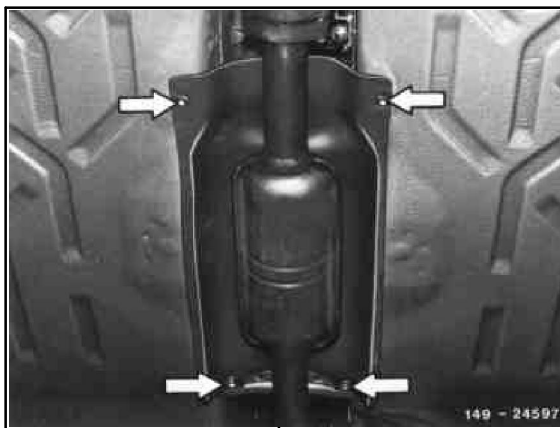
| | |
|--|---|
| Propeller shaft clamping nut (3) _____ | loosen for approx. two turns. Tightening torque 30 - 40 Nm. Torque wrench 001 589 66 21 00 Open end wrench element 126 589 00 01 00 or 201 589 00 01 00 (item 6). |
| Front propeller shaft (1, 1a) _____ | mount off and on at transmission, 45 Nm. Loosen fitted sleeves with mandrel 10 mm dia. Renew self-locking hex. nuts (14) (item 7). |
| Front propeller shaft (1b) model 124.333 _____ | mount off and on at transmission, 55 Nm (item 8). |
| Rear propeller shaft (2) _____ | mount off and on at rear axle center piece, 45 Nm. Renew self-locking hex. nuts (26) (item 10). |
| Propeller shaft intermediate bearing (7) _____ | screw off and on, tighten hex. head screws (7a) only after fastening propeller shaft to transmission and rear axle, 25 Nm (item 11). |
| Propeller shaft, complete _____ | force from centering pin on transmission and rear axle and pull out toward the rear (item 10 - 13). |
| Centering sleeves _____ | check for wear, with plastic or bronze bushings, grease cavities with Molykote grease and use multi-purpose grease with multi-component bushings (refer to Specifications for Service Products page 266.2 and 267, quantity per sleeve approx. 6). |

Special tools



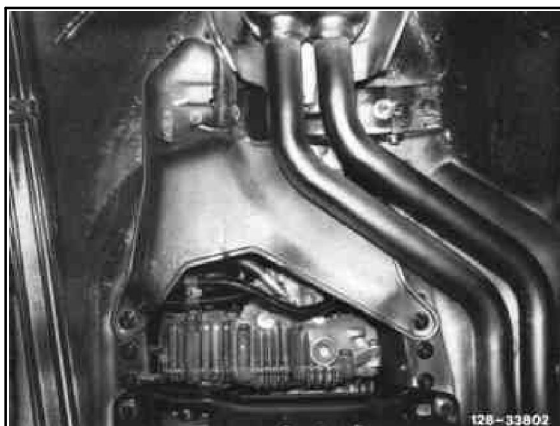
Removal and installation

- 1 Unscrew exhaust shielding plate (arrows).



4MATIC

- 2 Unscrew exhaust shielding plate.



- 3 Lift transmission and support.

- 4 Unscrew hex. head screws and hex. nut (arrows) and remove rear engine carrier with engine mount (not with 4MATIC).

Installation note

Tightening torque hex. head screws 45 Nm, hex. nut 70 Nm.

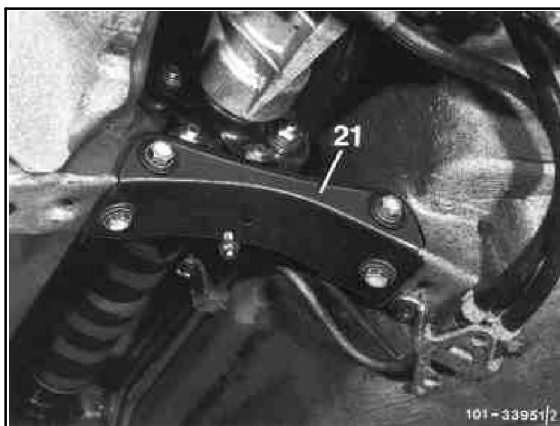


4MATIC

- 5 Unscrew cross bridge (21).

Installation note

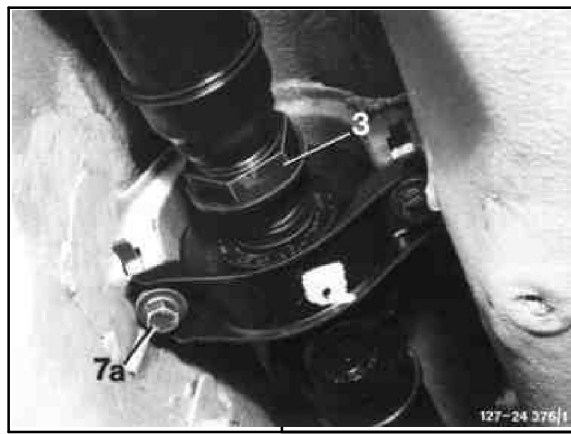
Tightening torque 25 Nm.



6 Loosen propeller shaft clamping nut (3) for approx. two turns without sliding back rubber sleeve (sliding along).

Installation note

Tightening torque 30 - 40 Nm, while paying attention to correct seat of rubber sleeve.



7 Remove front propeller shaft from transmission.

Note

Flexible coupling remains on propeller shaft.

Installation note

Renew self-locking hex. nuts.

Tightening torque M 10 = 45 Nm,
M 12 = 60 Nm.



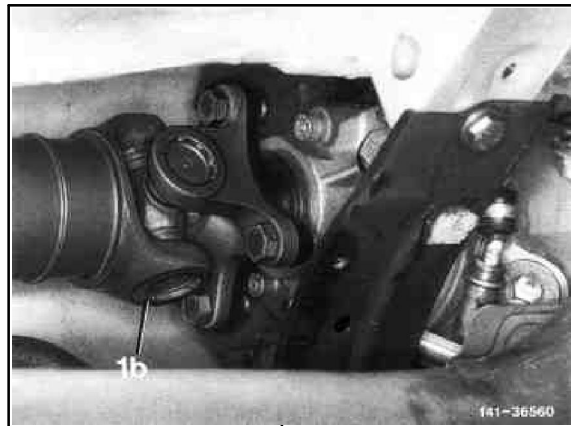
Model 124.333

8 Remove front propeller shaft (1b) from transfer case.

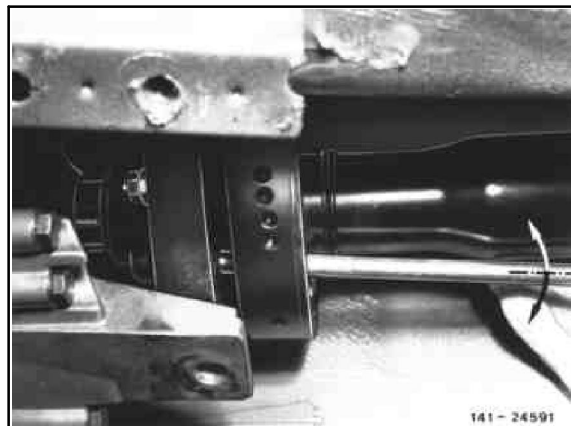
Installation note

Renew self-locking hex. nuts.

Tightening torque 55 Nm.



9 Prior to sliding back propeller shaft, loosen vulcanized fitted sleeves of soft pull-push flexible coupling installed on transmission end by means of a mandrel in flexible joint flange. For this purpose, use a cylindrical mandrel of 10 mm dia. and approx. 150 mm in length (not on models 124.333/393).



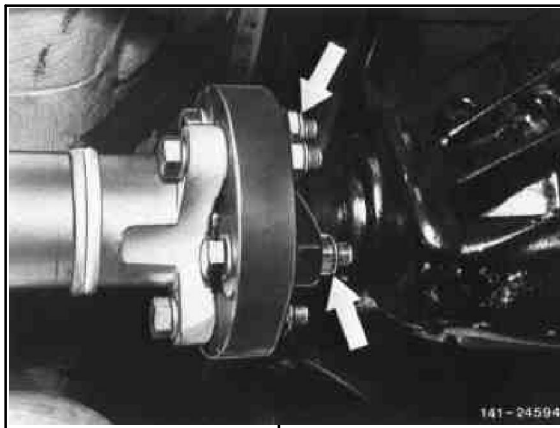
10 Remove propeller shaft from rear axle (arrows).

Note

Flexible coupling remains on propeller shaft.

Installation note

Renew self-locking hex. nuts.
Tightening torque M 10 = 45 Nm,
M 12 =60 Nm.



11 Unscrew hex. head screws (7a) of propeller shaft intermediate bearing on frame floor.

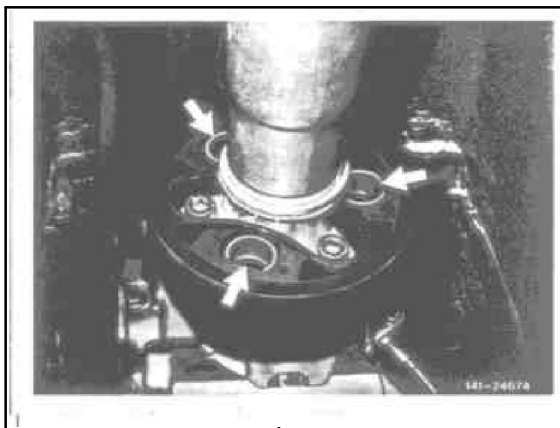
Installation note

Tighten hex. head screws only after fastening propeller shaft to transmission and rear axle, tightening torque 25 Nm.



Note

On vehicles with manual transmission pay attention to correct seat of roller sleeves in vibration damper after tightening transmission-propeller shaft connection, press-in roller sleeves, if required (arrows).



12 Unscrew bracket for safety belt fixing on vehicles as of 09/89.

Installation note

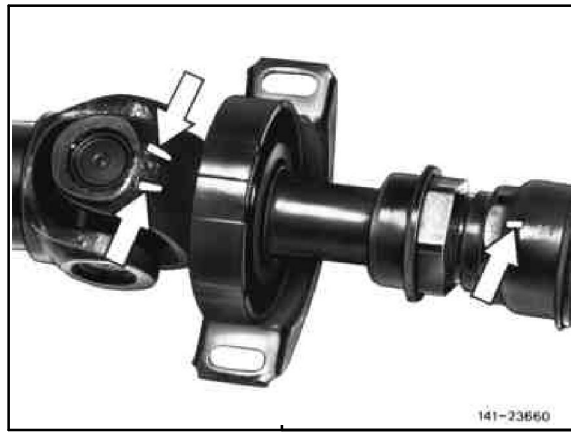
Tightening torque of hexagon nuts 280 Nm.

13 Force propeller shaft from centering pin on transmission and rear axle and remove toward the rear.





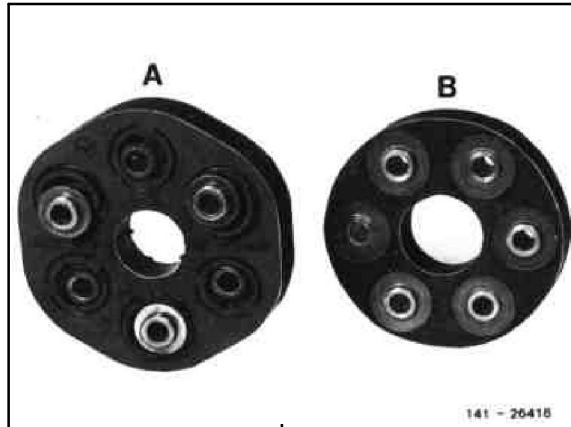
If a separation of the propeller shaft is required, reassemble the parts again as shown. The front propeller shaft is provided with a hump and the fork-type joint of the rear propeller shaft with two arrow-type humps. The hump of the front propeller shaft should be located between the two arrows on fork-type joint (arrows).



14 Check flexible coupling, centering sleeves, vibration damper

Note

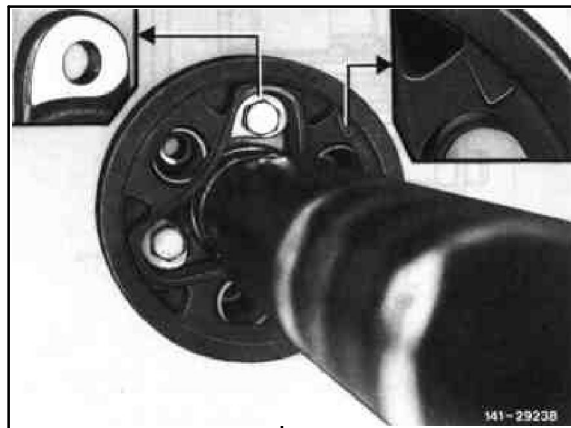
A soft or hard pull-push flexible coupling (except on models 124.333/393) is installed on the transmission and a hard flexible coupling is installed on the rear axle.



A Soft pull-push flexible coupling
B Hard flexible coupling

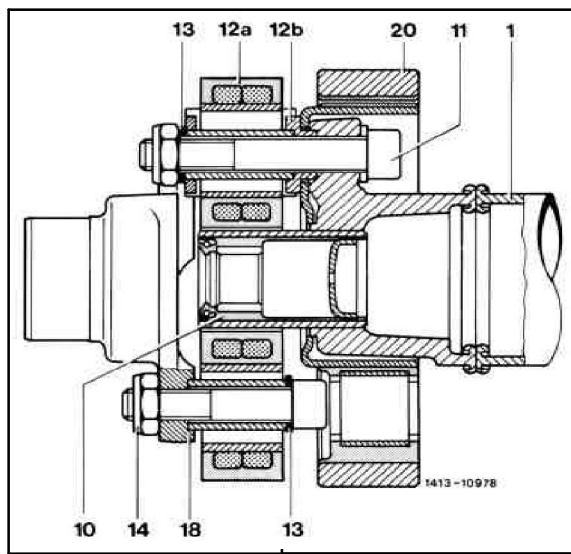
15 If during renewal of flexible coupling the vibration damper is separated from propeller shaft or the vibration damper is renewed, mount vibration damper and three-legged flange as shown.

The installation position is correct if the arrow on the vibration damper is mounted behind the hump on the three-legged flange. (Model 124 with a bolt circle diameter of 80 mm.)



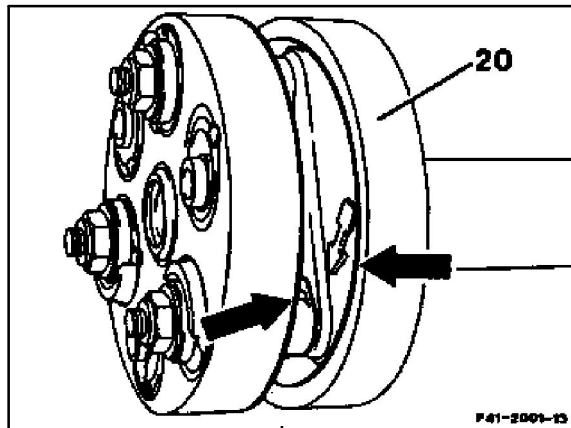
Layout model 124 with 80 mm bolt circle dia.

- 1 Front propeller shaft
- 10 Centering sleeve
- 11 Hex. head screw
- 12 Flexible coupling
- 12b Centering bushing
- 13 Washer
- 14 Self-locking hex. nut
- 18 Flexible flange
- 20 Vibration damper

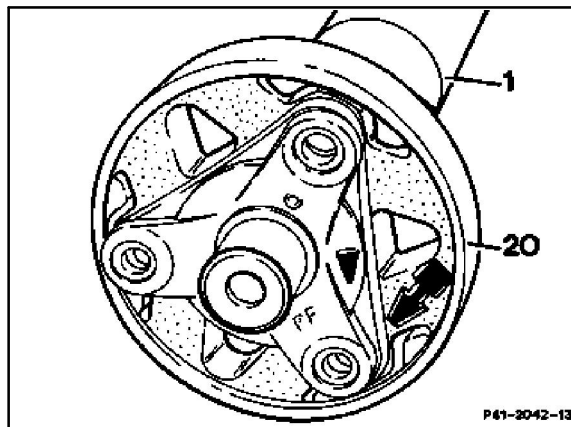


16 Model 124 with a bolt circle diameter of 90 mm. The installation position is correct when the arrow of vibration damper points to hump on three-legged flange.

Marking on 1st version up to 12/89

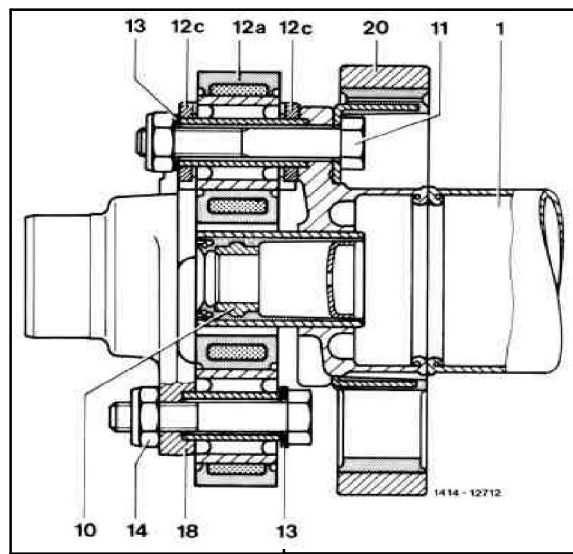


Marking on 2nd version as of 01/90



Layout models 124 with 90 mm bolt circle dia.

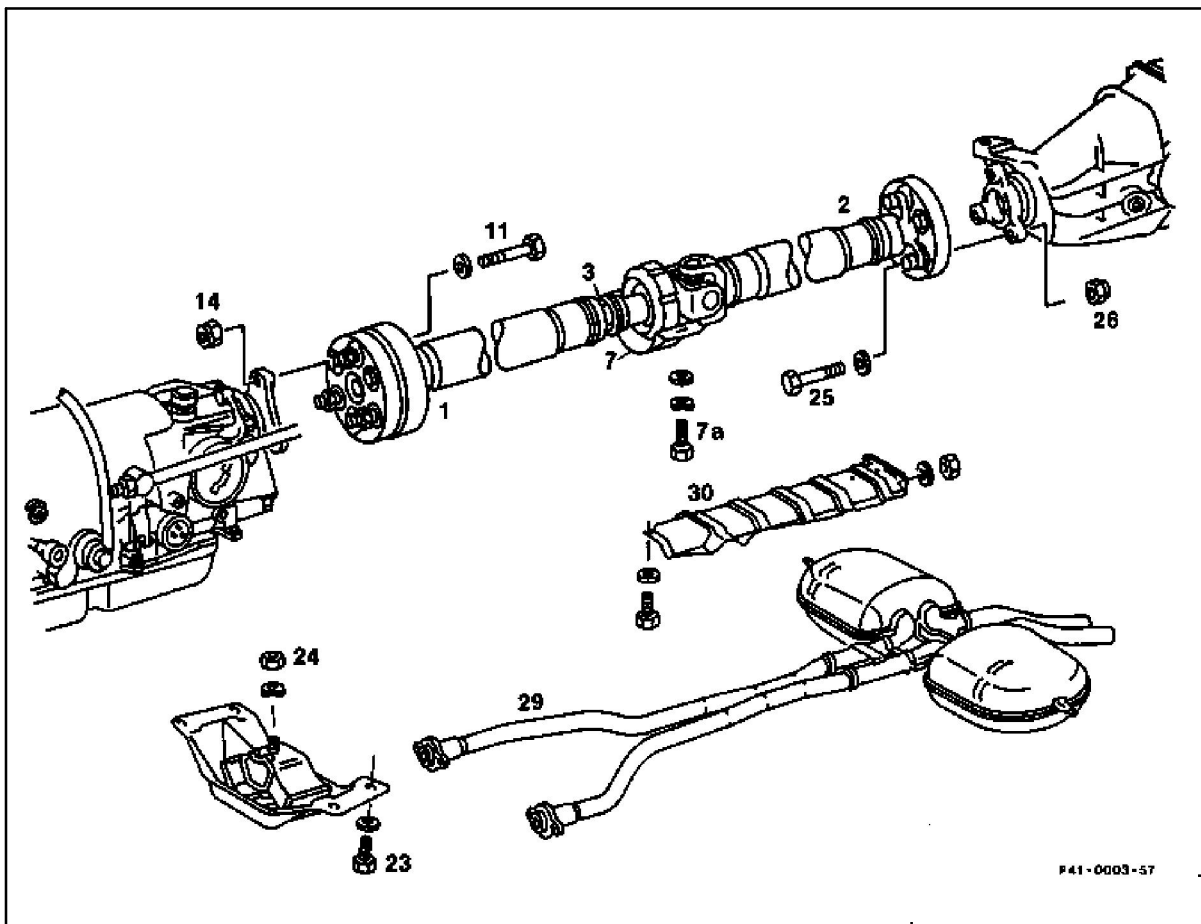
- 1 Front propeller shaft
- 10 Centering sleeve
- 11 Hex. head screw
- 12 Flexible coupling
- 12c Stop washers
- 13 Washer
- 14 Self-locking hex. nut
- 18 Flexible flange
- 20 Vibration damper



17 With plastic or bronze bushings, grease cavities of both centering sleeves with Molykote grease and use multi-purpose grease with multi-component bearing bushings (refer to Specifications for Service Products page 266.2 and 267, filling capacity per sleeve approx. 6 g).

18 For installation, proceed vice versa.

E. Model 126



Exhaust system (29) as of plug connection

(connector) _____ remove and install (49-100).

Exhaust shielding plate (30) _____ screw off and on, 25 Nm (item 2).

Transmission _____ lift, support, lower.

Engine carrier _____ screw off and on, 45 Nm (item 4).

Propeller shaft clamping nut (3) _____ loosen for approx. two turns.
Tightening torque 30 - 40 Nm,
open end wrench element 126 589 00 01 00 (item 6).

Front propeller shaft (1) _____ remove from and mount on transmission,
M 10 = 45 Nm,
M 12 = 65 Nm.

On model 126.02 loosen fitted sleeve of flexible coupling with mandrel of 10 mm dia. Renew self-locking hex. nuts (14) (items 7, 8).

Rear propeller shaft (2) _____ remove from and mount on rear axle,
M 10 = 45 Nm,
M 12 = 65 Nm.

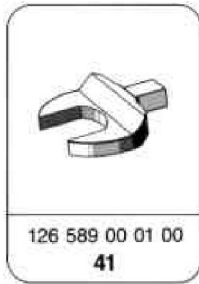
Renew self-locking hex. nuts (26) (item 9).

Propeller shaft intermediate bearing (7) _____ screw off and on. Tighten hex. head screws (7a) only after fastening propeller shaft to transmission and rear axle, 25 Nm (item 10).

Propeller shaft, complete _____ force off centering pin on transmission and rear axle and pull out toward the rear (item 11).

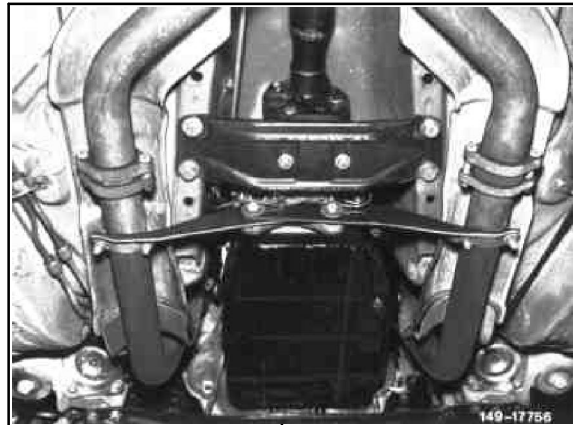
check for wear, with plastic or bronze bushings, grease cavities with Molykote grease and use multi-purpose grease with multi-component bushings (refer to Specifications for Service Products page 266.2 and 267, quantity per sleeve approx. 6 g).

Special tools



Removal and installation

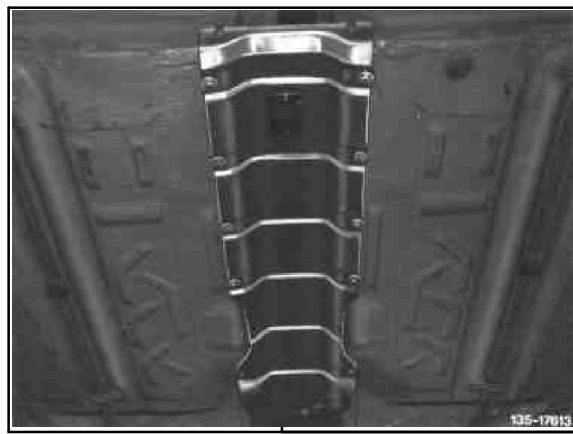
-
- 1 Remove exhaust system as of plug connection (49-100).



2 Unscrew exhaust shielding plate.

Installation note

Tightening torque of hex. head screws or nuts 25 Nm.

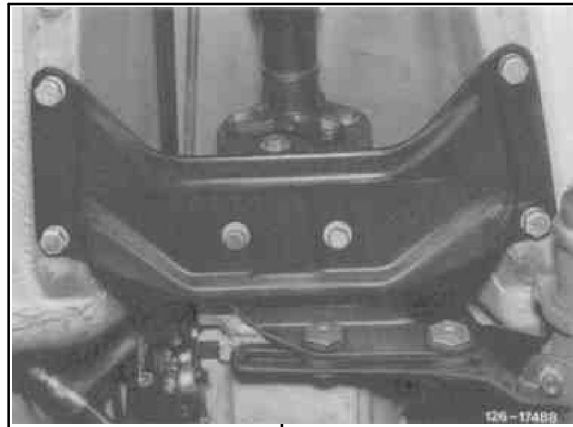


3 Support transmission.

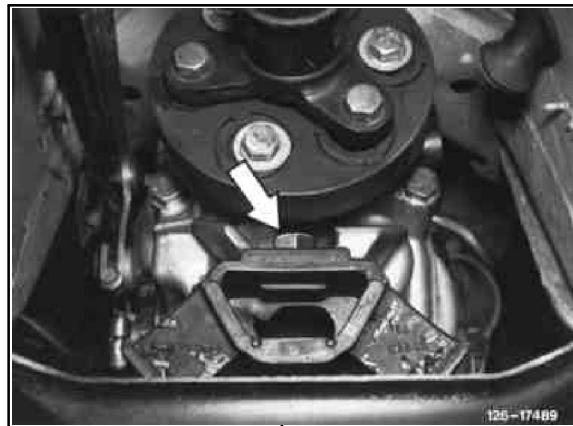
4 Unscrew hex. head screws of rear engine carrier from frame floor.

Installation note

Tightening torque 45 Nm.



5 Unscrew hex. nut (arrow) and remove engine carrier.



6 Loosen propeller shaft clamping nut for approx. two turns without sliding back rubber sleeve (sliding along).
Open-end wrench element 126 589 00 01 00.

Installation note

Tightening torque 30 - 40 Nm, while paying attention to correct seat of rubber sleeve.



7 Remove front propeller shaft from transmission (arrows).

Note

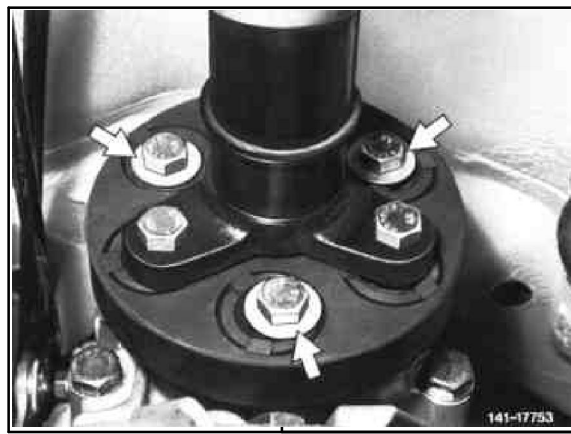
Flexible coupling remains on propeller shaft.

Installation note

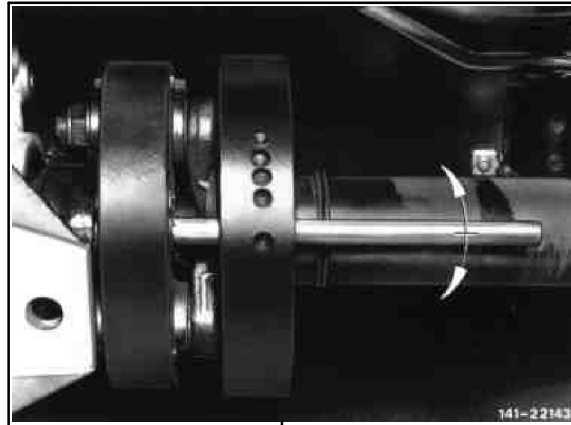
Renew self-locking hex. nuts.

Tightening torque: M 10 = 45 Nm,
 M 12 = 65 Nm.

Use washers with dimensions 10.5x25x1 (on models 126.02 only and on models 126.032/033 up to 08/80).



8 On model 126.02 with radially or tangentially soft flexible couplings, loosen vulcanized fitted sleeves of flexible coupling prior to pushing back of propeller shaft in flexible flange (arrows). For this purpose, use a cylindrical mandrel of 10 mm dia. and approx. 150 mm in length.



9 Remove propeller shaft from rear axle (arrows).

Note

Flexible coupling remains on propeller shaft.

Installation note

Renew self-locking hex. nuts.

Tightening torque: M 10 = 45 Nm,
 M 12 = 65 Nm.

Use only washers with dimensions 10.5x25x1 (on models 126.02 only and on models 126.032/033 up to 08/80).



Installation note

On the first vehicles (models 126.03/04 from 09 to 10/85) the three hex. head screws for fastening the flexible coupling to flexible flange must be mounted from the rear to the front for reasons of available space. The hex. head screws can be inserted only if the flexible flange is located at the level of the rear axle housing identified by an arrow.



10 Unscrew hex. head screws (arrows) of propeller shaft intermediate bearing on frame floor.

Installation note

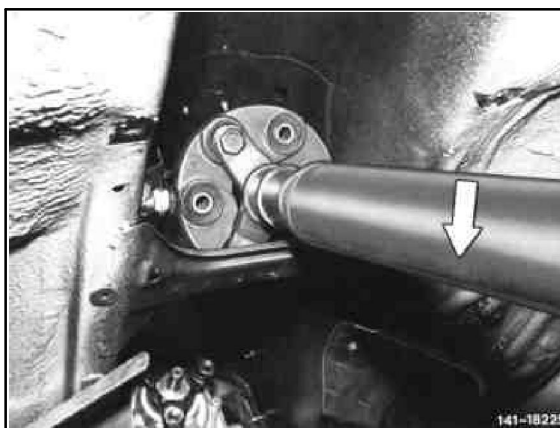
Tighten hex. head screws (arrows) only after fastening propeller shaft to transmission and rear axle, tightening torque 25 Nm.



11 Force propeller shaft from centering pin on transmission and rear axle and remove in downward direction. Make sure that propeller shaft will not be separated. On models 126.032/033 starting 09/80 and on models 126.036/037 remove propeller shaft owing to larger flexible couplings of 110 mm dia. angularly through the welded-in cross member.



If a separation of the propeller shaft is required, mark these parts in relation to each other, since the propeller shaft has been balanced in assembled condition.

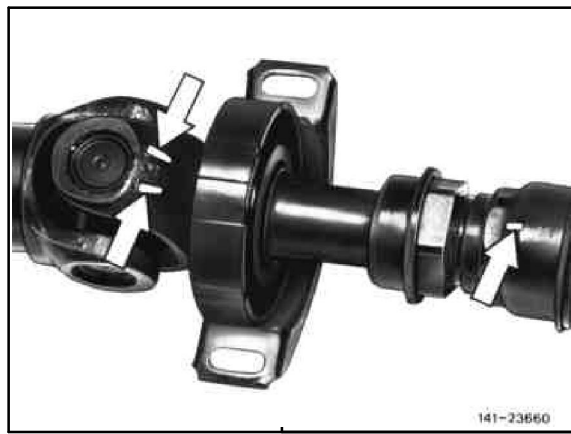


12 All vehicles starting 08/82 carry an identification mark on front and rear propeller shaft.

The front propeller shaft is provided with a hump and the flexible fork of the rear propeller shaft with two arrow-type humps (arrows). The hump of the front propeller shaft should be located between the two arrows on the flexible fork (arrows).

Note

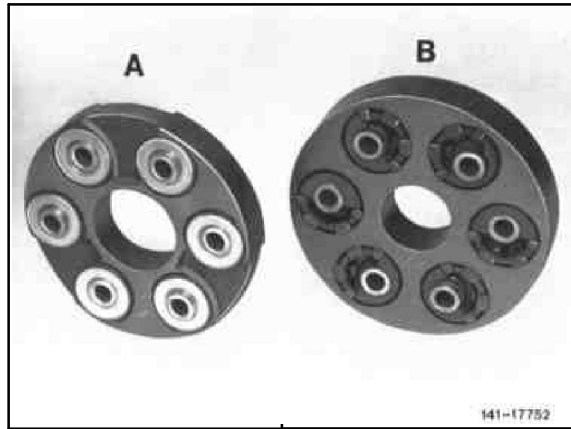
Propeller shafts on which the markings are not identical, should be marked in each case prior to removal.



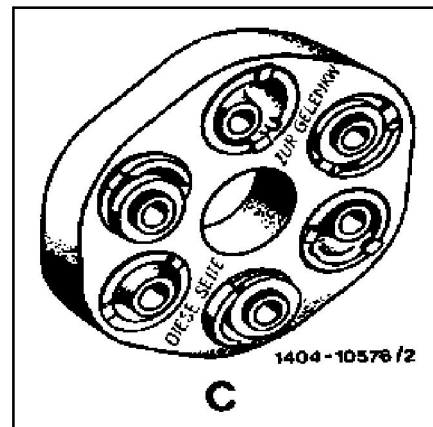
13 Check flexible couplings, centering sleeves and propeller shaft intermediate bearing for wear and renew parts if required.

14 A radially softer flexible coupling (B) is installed at transmission end on models 126.02. This version should be particularly checked for damage in range of fitted sleeves.

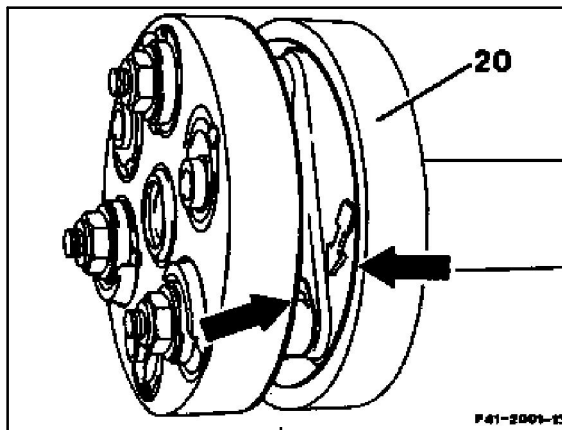
- A Flexible coupling at front and rear on models 126.03 with 110 mm bolt circle and at the rear on models 126.02 with 90 mm bolt circle.
- B Radially soft flexible coupling, at transmission end only on models 126.02 up to 08/85.



- C Soft pull-push flexible coupling, at transmission end only on models 126.02 starting 09/85.



15 Model 126.02 with manual 5-speed transmission.
 If the vibration damper is separated from propeller shaft during renewal, mount vibration damper and three-legged flange as shown.
 The installation position is correct, if the arrow of the vibration damper (20) points toward hump on three-legged flange.

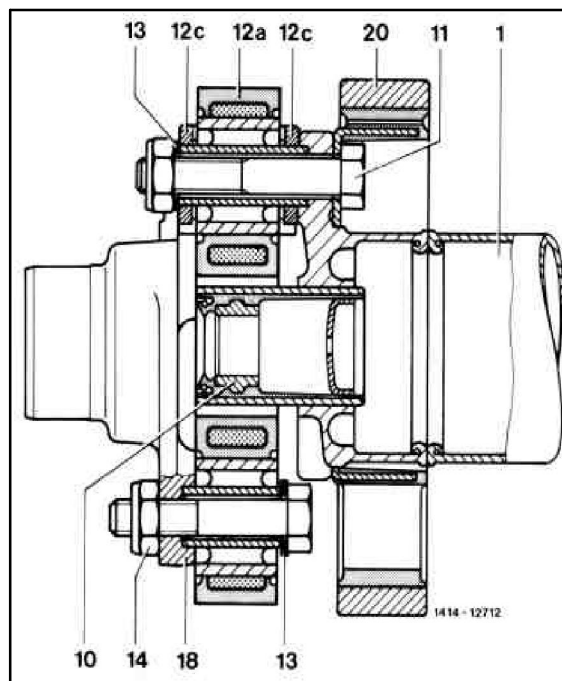


16 With plastic or bronze bushings, grease cavities of both centering sleeves with Molykote grease and use multi-purpose grease with multi-component bearing bushings (refer to Specifications for Service Products page 266.2 and 267, filling capacity per sleeve approx. 6 g).

17 For installation proceed vice versa.

Layout model 126.02 with 90 mm bolt circle dia. and vibration damper on vehicles with manual transmission.

- 1 Front propeller shaft
- 10 Centering sleeve
- 11 Hex. head screw
- 12 Flexible coupling
- 12c Stop washers
- 13 Washer
- 14 Self-locking hex. nut
- 18 Universal flange
- 20 Vibration damper



Layout model 126.03/04 with 110 mm bolt circle dia.

- 1 Front propeller shaft
- 10 Centering sleeve
- 11 Hex. head screw
- 12 Flexible coupling
- 13 Washer
- 14 Self-locking hex. nut
- 18 Universal flange

