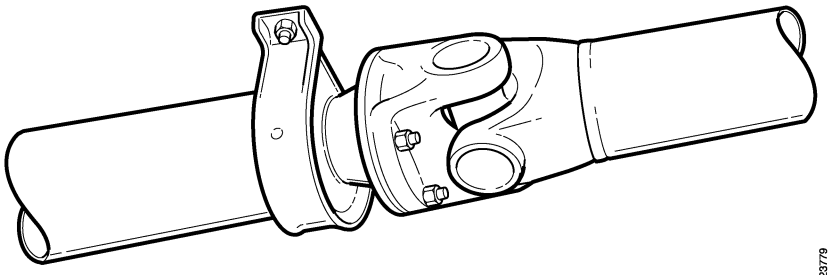
SCANIA

06:01-50

Issue 1 **en**

Propeller shafts and support bearing, N bus

Work description



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General

The propeller shaft on N buses has a flange-type driver at each end by the gearbox and rear axle. The drivers are held together by through bolts with nuts. The propeller shaft power is transferred via splines at the drivers.

N buses with a short rear overhang have a propeller shaft with a diameter of 100 mm. The propeller shaft has a grease nipple for the sliding joint.

N buses with a long rear overhang have a propeller shaft with a diameter of 120 mm. The propeller shaft does not have a grease nipple for the sliding joint.

N bus with propeller shaft and intermediate propeller shaft

Some N buses with a long rear overhang also have an intermediate propeller shaft with a support bearing in addition to a propeller shaft with a sliding joint.

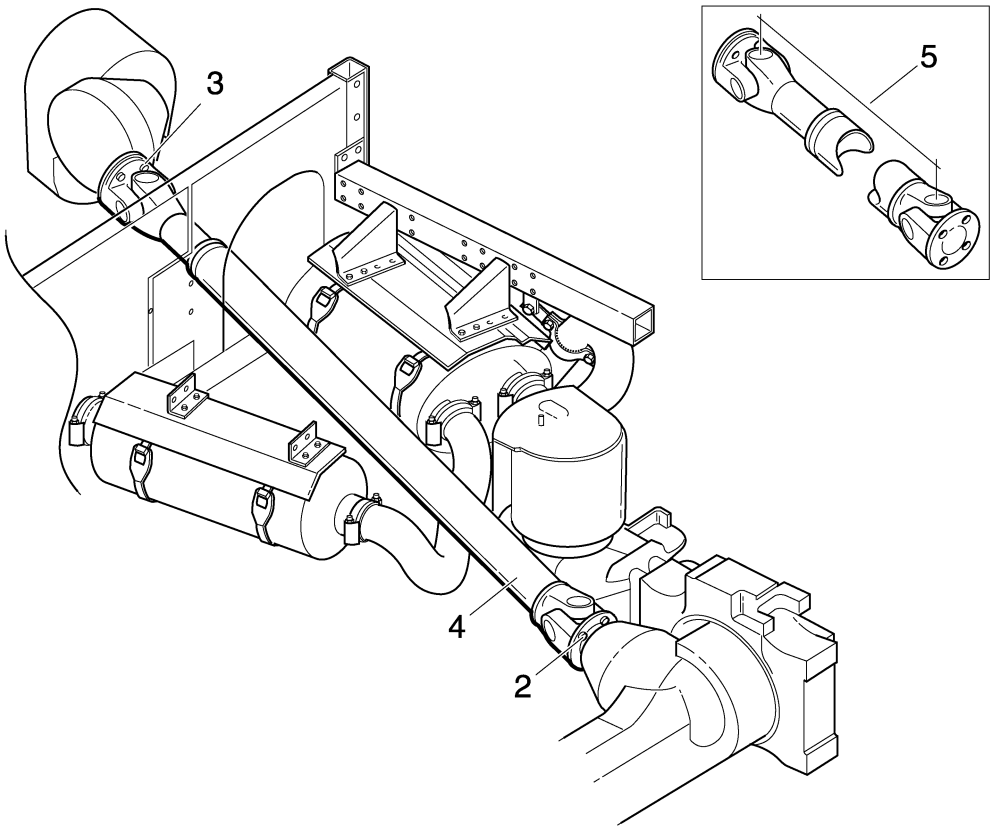
The propeller shaft has a diameter of 120 mm and does not have a grease nipple for the sliding joint.

The intermediate propeller shaft has a diameter of 120 mm and has a grease nipple for the support bearing.

Universal joints

The universal joints on all propeller shafts and intermediate propeller shafts on N buses have grease nipples.

Renewing the propeller shaft



Removal

	Remove	Remarks	Item
1	Splash plate under gearbox.		
2	The nuts and bolts holding the propeller shaft on to the driving axle end yoke.	Clean the sliding joint first. Push the propeller shaft back slightly so that it comes free from the driving axle end yoke. Lower the propeller shaft and let it rest against the exhaust pipe.	2
3	The nuts and bolts holding the propeller shaft on to the gearbox end yoke.		3
4	Propeller shaft.		4

IMPORTANT! When dismantling the propeller shaft (separating the sliding joint): First mark the position of both parts in relation to each other so that the universal joints can be aligned when assembling, illustration position 5.

Fitting

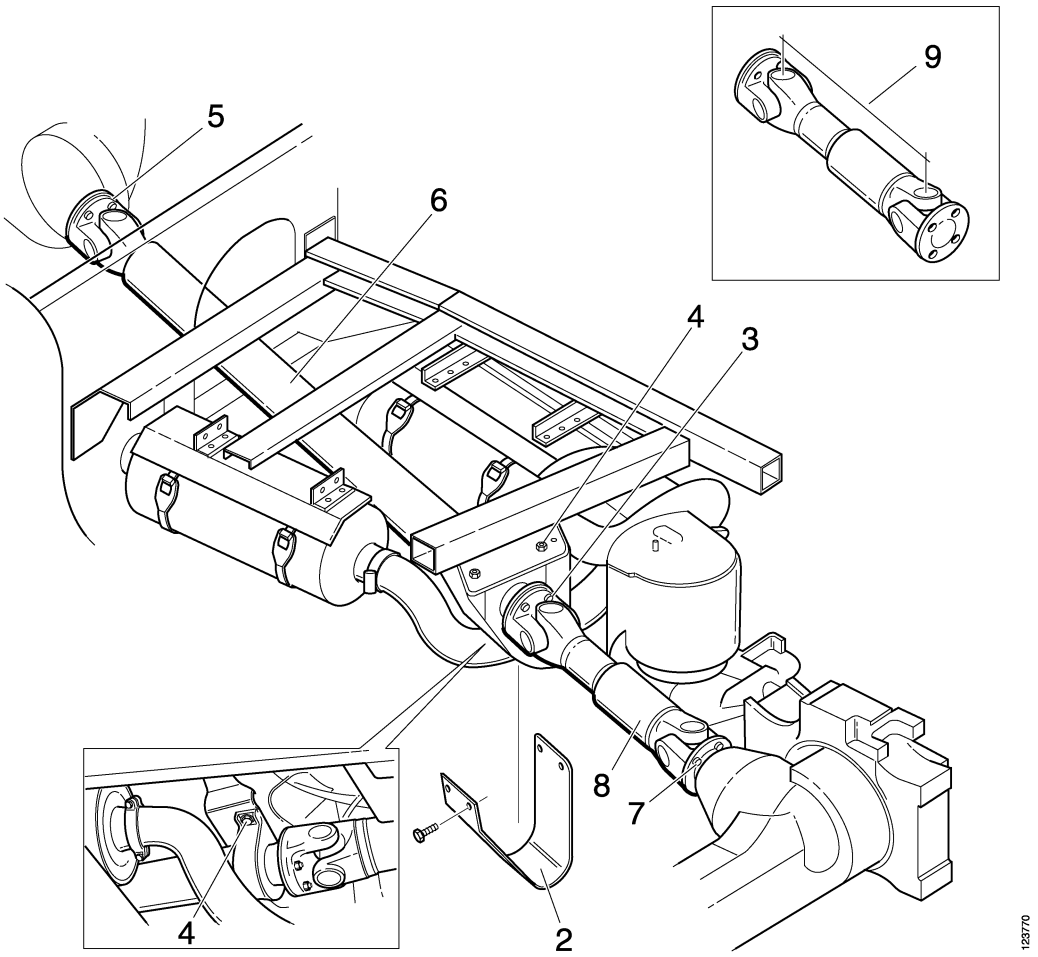
Specifications

Tightening torque	
M12 bolts for end yoke	120 Nm

Fitting is carried out in reverse order with the following notes:

- The universal joints on the propeller shaft should be aligned, illustration position 5.
- Fit the propeller shaft with the narrower section (splined spindle) facing the gearbox end yoke.

Renewing the propeller shaft and intermediate propeller shaft with support bearing



Removing the intermediate propeller shaft

	Remove	Remarks	Item
1	Splash plate under gearbox.		
2	Heat shield around support bearing.	Four bolts.	2
3	The nuts and bolts holding the propeller shaft on to the intermediate propeller shaft end yoke.	Clean the sliding joint first. Push the propeller shaft back a bit so that it comes free from the intermediate propeller shaft driver. Tie up the propeller shaft so that it is hanging freely.	3
4	The bolts holding the support bearing in the chassis.	Then lower the intermediate propeller shaft and let it rest against the exhaust pipe.	4

	Remove	Remarks	Item
5	The nuts and bolts holding the intermediate propeller shaft on to the gearbox end yoke.		5
6	Intermediate propeller-shaft.		6

Removing the propeller shaft

	Remove	Remarks	Item
1	The nuts and bolts holding the propeller shaft on to the driving axle end yoke.	Clean the sliding joint first.	7
2	Heat shield around support bearing.	Four bolts.	2
3	The nuts and bolts holding the propeller shaft on to the intermediate propeller shaft end yoke.		3
4	Propeller shaft.	Push the propeller shaft back slightly so that it comes free from the drivers.	8

IMPORTANT! When dismantling the propeller shaft (separating the sliding joint): First mark the position of both parts in relation to each other so that the universal joints can be aligned when assembling, illustration position 9.

Fitting

Specifications

Tightening torque	
M12 bolts for end yoke	120 Nm
M14 bolts for support bearing	112 Nm
M8 bolts for heat shield	20 Nm

Fitting is carried out in reverse order with the following notes:

- Fit the propeller shafts so that the universal joints are aligned between the propeller shaft and intermediate propeller shaft.

Intermediate propeller shaft

- First tighten the bolts holding the intermediate propeller shaft to the gearbox end yoke, then tighten the support bearing fastening bolts.

Propeller shaft

- The universal joints on the propeller shaft should be aligned, illustration position 9.
- Fit the propeller shaft with the narrower section (splined spindle) facing the support bearing.