

The wheel hubs are keyed, with "UNIT - BEARING" with "Long Life" lubrication, onto the arms of the axle casing. The bearings need no adjustment.

The brakes are disc brakes with floating brake callipers.

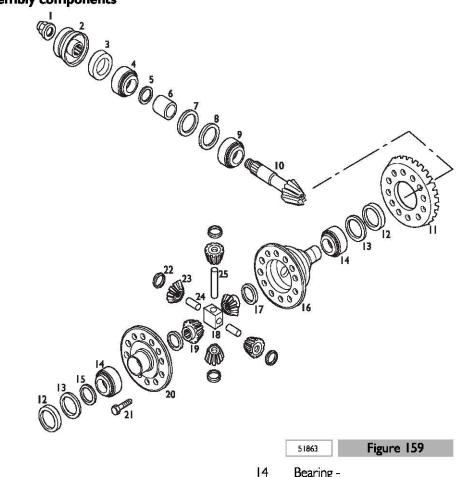
The disc brakes are keyed to the wheel hubs.

The brake calipers are secured with flanges fixed onto the arms of the axle casing.

The parking brake is a drum brake, built into the brake disc.



Differential assembly components



Bearing -

Cross

Screw

Planet gear

Short pin

Long pin

Gear housing

Planetary gear

Sun gear thrust block

Differential box cover

Planetary gear thrust block

15

16

17

18

19

20

21

22

23

24

25

Thrust ring (differential lock rear axle)

- Ĩ Nut
- 2 Transmission connection sleeve
- Seal ring 3
- 4 Front bearing
- 5 Bearing adjusting shim
- Fixed spacer 6
- 7 Spacer ring
- 8 Adjusting ring
- 9 Rear bearing
- 10 Bevel pinion
- Bevel crown 11
- 12 Fixed ring
- 13 Adjusting ring

5250 **CHARACTERISTICS AND DATA**

Rear axle 450511 characteristics

	Type of rear axle: Single reduction type	450511
Electrically-controlled mechanical differential lock		optional
	DIFFERENTIAL UNIT	



	Type of rear axle: Single reduction type		450511
	Crown wheel and pinion reduction ratio (no. of teeth: pinion/crown wheel)		1:3,615 (13/47)- 1:3,917 (12/47) - 1:4,182 (11/46) - 1:4,444 (9/40) - 1:4,889 (9/44)* - 1:5,111 (9/46) * - 1:5.222 (9/47) * - 1:3,308 (13/43) *
	Bevel pinion bearings		2 with taper rollers
	Bevel pinion bearing rolling torque (lub- ricated seal rings and bearings).	Nm	1.2 ÷ 2.4
	New bearings	kgm	0.12 ÷ 0.24
	Bevel pinion bearings pre-load adjustment		using adjustment rings
CO E MECO	Bevel pinion bearings pre-load adjustment shims thickness		I ÷ 1.975 mm with progression of 0.025 mm
	Inner bearing ring on bevel pinion installation tem- perature		80 °C ÷ 90 °C
	Position of bevel pinion with respect to differential case		using adjustment rings
CO CO	Thickness of adjustment shim located between bevel pinion and differential case		I ÷ 1.975 mm with progression of 0.025 mm
	Bearings for differential case		2 with taper rollers
	Differential housing bearings rolling torque		
		Nm	2 ÷ 2.8
		kgm	0.20 ÷ 0.28
	Differential case bearings rolling torque adjustment		using adjustment rings
CO E VECO	Differential case bearings rolling torque adjustment shim thickness		I ÷ 1.95 mm with progression of 0.05 mm
	Clearance between pinion and crown wheel		0.15 ÷ 0.20 mm
	Pinion to crown wheel clearance adjustment		using adjustment rings
	Clearance between planetary gears and sun gears		0.12 ÷ 0.22 mm



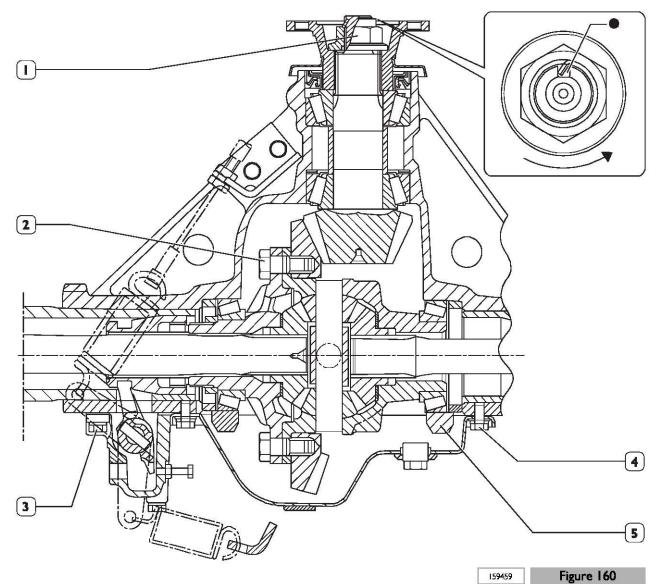
	Type of rear axle: Single reduction type		450511
E	WHEEL HUBS		
	Wheel hub bearings		Unit-Bearing
	Hub bearing axial clearance		
	Wheel hub bearings rolling torque	Nm	-
		kgm	=
	Wheel hub bearing axial clearance adjustm	ent	Not adjustable
			Tighten the ring nut to the specified torque
0	Rear axle oil		TUTELAWI40/M-DA (SAE 85WI40)
			TUTELAW90/M-DA (SAE 80W90) (*)
-	Quantity	Litres	1.9
	Dry rear axle weight:		
	with ABS	kg	154.6
	without ABS	kg	153
	maximum capacity (GRW)	kg	3700

- **Note** (*) Specific for cold climates
 - ★ Only chassis cab vehicles
 - A Only VAN vehicles



5250 TIGHTENING TORQUES

Central part



TIGHTENING TORQUES

		TORQUE
DETAIL		Nm
ŀ	M26x1.5 bevel pinion mounting nut	450 ± 50
2	Half-casing and crown wheel M14X1.5 mounting screw	205 ± 5
3	Mounting screw for support for differential lock to rear axle casing or cover for differential lock support seat	23 ± 2
4	Differential inspection cover to axle casing mounting screw	87.5 ± 7.5
5	Caps to axle casing mounting screw	106.5 ± 6.5