



<b>A17</b>	BT00.00-X-1000Z	<b>Technical modifications</b>	<b>11.12.98</b>
------------	-----------------	--------------------------------	-----------------


BT35.31-P-0004-01A	Tapped hole of speed sensor on rear axle housing moved		<b>C17</b>
BT35.31-P-0013-01A	Radial seal ring on side of rear axle housing and connecting flange modified	as of 01.04.98	<b>D17</b>
BT35.41-P-0002-01A	Routing of ASD ring cylinder and hydraulic pipe modified		<b>G17</b>
BT35.31-P-0012-01A	Radial seal ring and joint flange on drive pinion modified		<b>H17</b>
BT35.31-P-9402-01A	Integrated thrust washer on tapered roller bearing inner race		<b>M17</b>
BT35.31-P-0011-01B	Gear sets ground		<b>N17</b>
BT35.31-P-0011-01A	Gear sets ground		<b>O17</b>
BT35.31-P-0007-01A	Imbalance on joint flange drive pinion reduced		<b>P17</b>
BT35.31-P-0005-01A	Tightening torque of ring gear screws reduced		<b>A18</b>
BT35.31-P-0009-01A	Connecting flange with centering		<b>B18</b>
BT35.31-P-0006-01C	Balancing of differential housing		<b>C18</b>
BT35.31-P-0006-01B	Balancing of differential housing		<b>D18</b>



---

BT35.41-P-0001-01A	Modified ASD hydraulic unit		E18
BT35.41-P-0001-01B	Modified ASD hydraulic unit		F18



<b>C17</b> BT35.31-P-0004-01A	Tapped hole of speed sensor on rear axle housing moved		 <b>BT</b>
-------------------------------	--	--	---

**Production breakpoint data/Modifications/New features**


<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for change</i>	<i>Comment/reference</i>
168		01.03.86			
185		01.03.86			
210		01.03.86			

The M6 tapped hole for fastening the speed sensor has been moved 2.7 mm



Introduction of speed sensors in module technology



<b>D17</b>	BT35.31-P-0013-01A	Radial seal ring on side of rear axle housing and connecting flange modified	as of 01.04.98	 <b>BT</b>
------------	--------------------	--	----------------	---

**Rear axle center assembly dia. 185**

**in MODEL 124.003 /004 /007 /019 /022 /023 /026 /027 /030 /040 /042 /043 /050 /060 /062 /079 /082 /083 /090,**

**124.104 /107 as of 1.5.94,**

**124.127 /128 /129 /130 /131 /133 /188 /190 /191 /193 /226 /230 /290 /330 /333 /393, 129.060, 170.445 /447,**

**201.028 /029 /035 /036 /128, 202.020 /022 /023 /024 /025 /026 /028 /029 /080 /082 /083 /086 /089 /128 /188,**

**208.335 /345 /347 /435 /445 /447, 210.007 /010 /020 /035 /037 /061 /210 /235 /237 /261 /610**

**Rear axle center assembly dia. 185**

**in MODEL 124.020 /021 /080 /081 /120 /125 /126 /180 /185 /186, 201.018 /023 /024 /122 /126 as of 1.11.88,**

**202.018 /078 /120 /121 /122 /125 /182, 210.003 /004 with CODE (450) taxi version**

**Rear axle center assembly dia. 185**

**in MODEL 124.186 as of 1.3.94,**

**202.134 /194 except CODE (450) taxi version**

**Rear axle center assembly dia. 185 in MODEL 202.085 with TRANSMISSION 722**

A new radial seal ring and new connecting flange with protective ring has been fitted, phased in as of 01.04.98.

This improves the sealing at the connecting flange against dirt from outside.



When installing the new connecting flange, it is essential to install the new radial seal ring as well. This is the only way to ensure correct sealing

When the new radial seal ring is installed, the previous connecting flange can continue to be installed.



*Version up to 31.03.98*

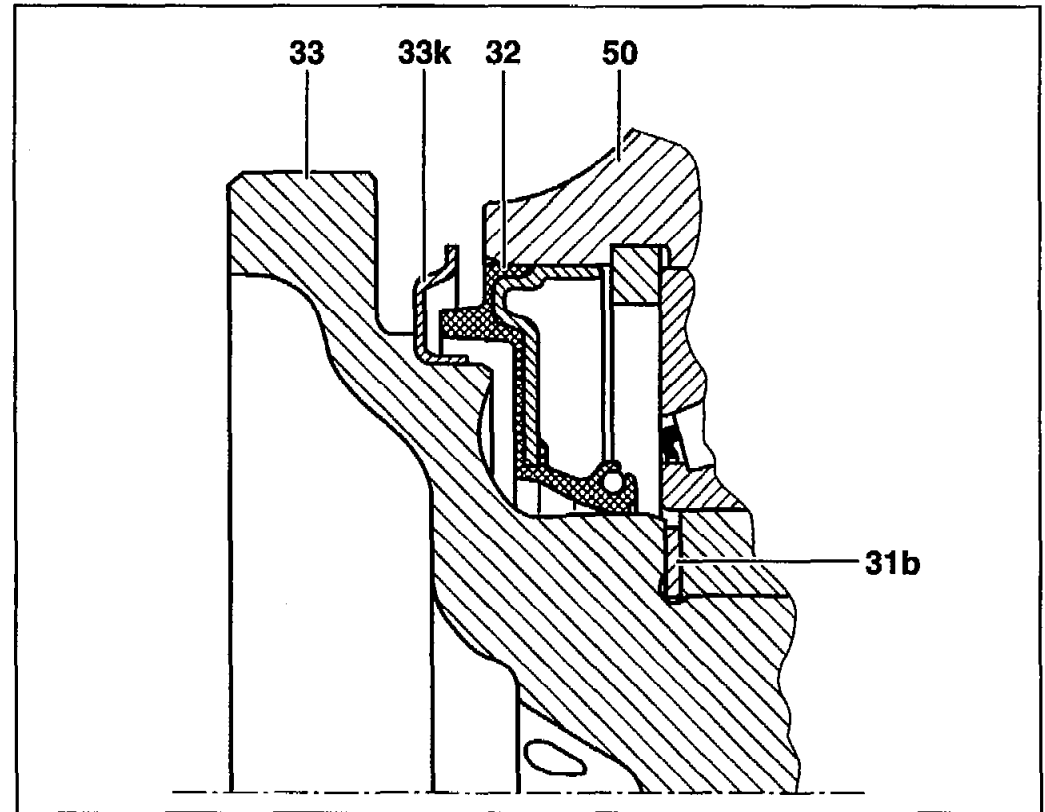
*31b Spacer ring*

*32 Radial seal ring*

*33 Connecting flange*

*33k Connecting flange protective ring*

*50 Rear axle housing*



P35.31-2012-11



Version as of 01.04.98

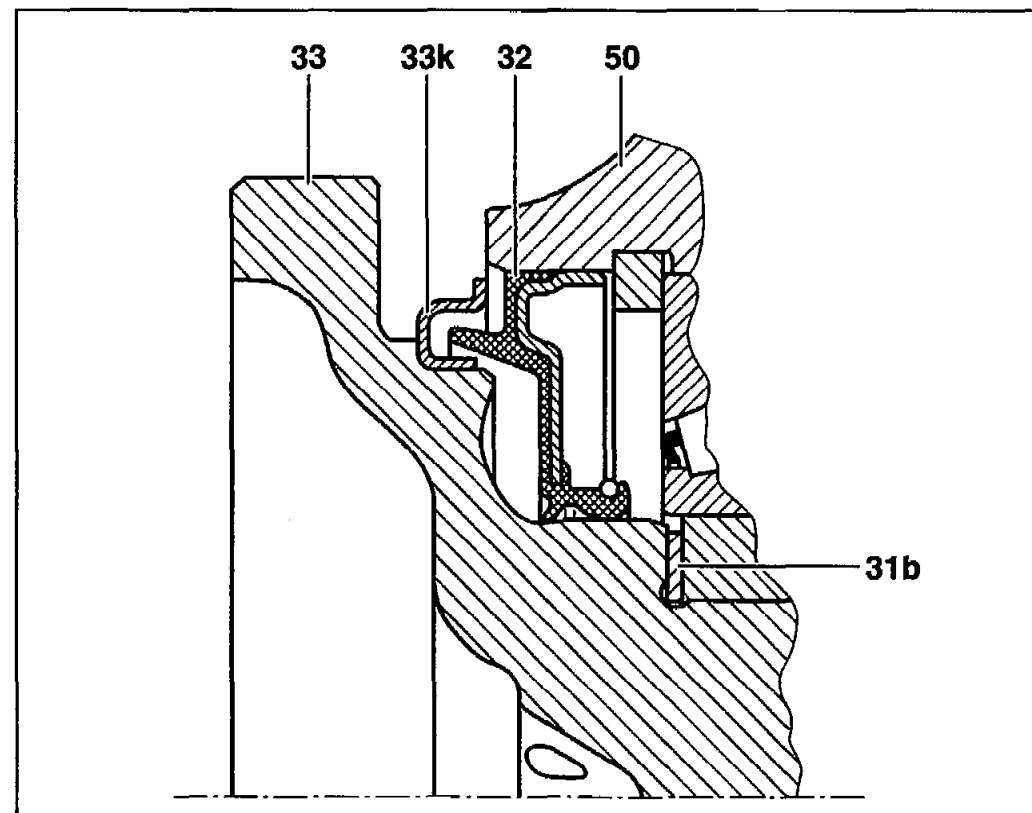
31b Spacer ring

32 Radial seal ring

33 Connecting flange

33k Connecting flange protective ring

50 Rear axle housing



P35.31-2013-11



<b>G17</b>	BT35.41-P-0002-01A	Routing of ASD ring cylinder and hydraulic pipe modified		
------------	--------------------	--	--	--

**Production breakpoint data/modifications/new features**

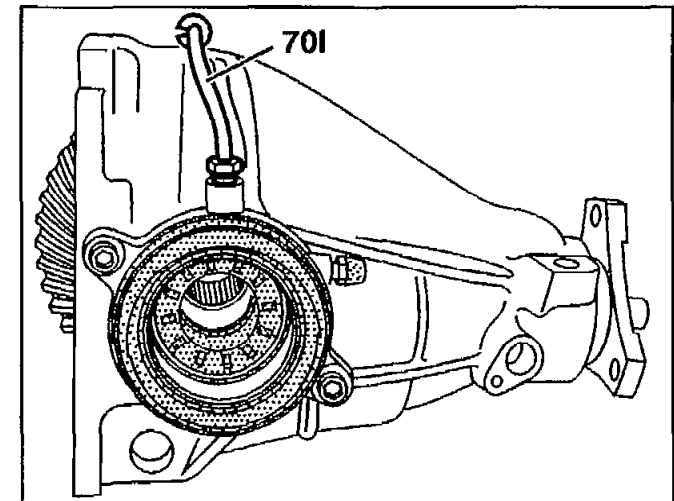
<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for modification</i>	<i>Reference/comments</i>
185		01.07.89			

Right-hand hydraulic pipe connection modified to improve access when bleeding.




The second version of the ring cylinders are marked on the connection with "R" for right-hand side and with "L" for the left-hand side. When converting the first version to the second version the hydraulic pipe (70l) is to be replaced at the same time.

*Location of 2nd version of pipe routing on right-hand side only, breather connector arranged horizontal*



P35.41-0205-01

H17 BT35.31-P-0012-01A	Radial seal ring and joint flange on drive pinion modified		 BT
---------------------------	--	--	--

**Rear axle center assembly dia. 185**

in MODEL 124.003 /004 /007 /019 /022 /023 /026 /027 /030 /040 /042 /043 /050 /060 /062 /079 /082 /083 /090,

124.104 /107 as of 1.5.94,

124.127 /128 /129 /130 /131 /133 /188 /190 /191 /193 /226 /230 /290 /330 /333 /393, 129.060, 170.445 /447,

201.028 /029 /035 /036 /128, 202.020 /022 /023 /024 /025 /026 /028 /029 /080 /082 /083 /086 /089 /128 /188,

208.335 /345 /347 /435 /445 /447, 210.007 /010 /020 /035 /037 /061 /210 /235 /237 /261 /610

**Rear axle center assembly dia. 185**

in MODEL 124.020 /021 /080 /081 /120 /125 /126 /180 /185 /186, 201.018 /023 /024 /122 /126 as of 1.11.88,

202.018 /078 /120 /121 /122 /125 /182, 210.003 /004 with CODE (450) taxi version

**Rear axle center assembly dia. 185**

in MODEL 124.186 as of 1.3.94,

202.134 /194 except CODE (450) taxi version

**Rear axle center assembly dia. 185 in MODEL 202.018 /120 /121 /125 with CODE (211a) rear axle with automatic locking differential (ASD)**

**Rear axle center assembly dia. 210**

in MODEL 124.008 /028 /029 /031 /032 /034 /036 /051 /052 /061 /066 /088 /091 /092,

129.058 up to 31.5.94,

129.061,

129.063 up to 31.5.94,

129.066,

140.028 /032 /033 up to 31.5.94,

140.042 /043 /063 /1,

210.070 up to 31.1.98,

210.072,

210.074 /270 up to 31.1.98,

210.272,

210.274 up to 31.1.98,

210.617

**Rear axle center assembly dia. 185 in MODEL 202.085 with TRANSMISSION 722**





A new radial seal ring and new joint flange with protective ring has been fitted, phased in as of 01.04.98.

This improves the sealing on the drive pinion against dirt from outside.



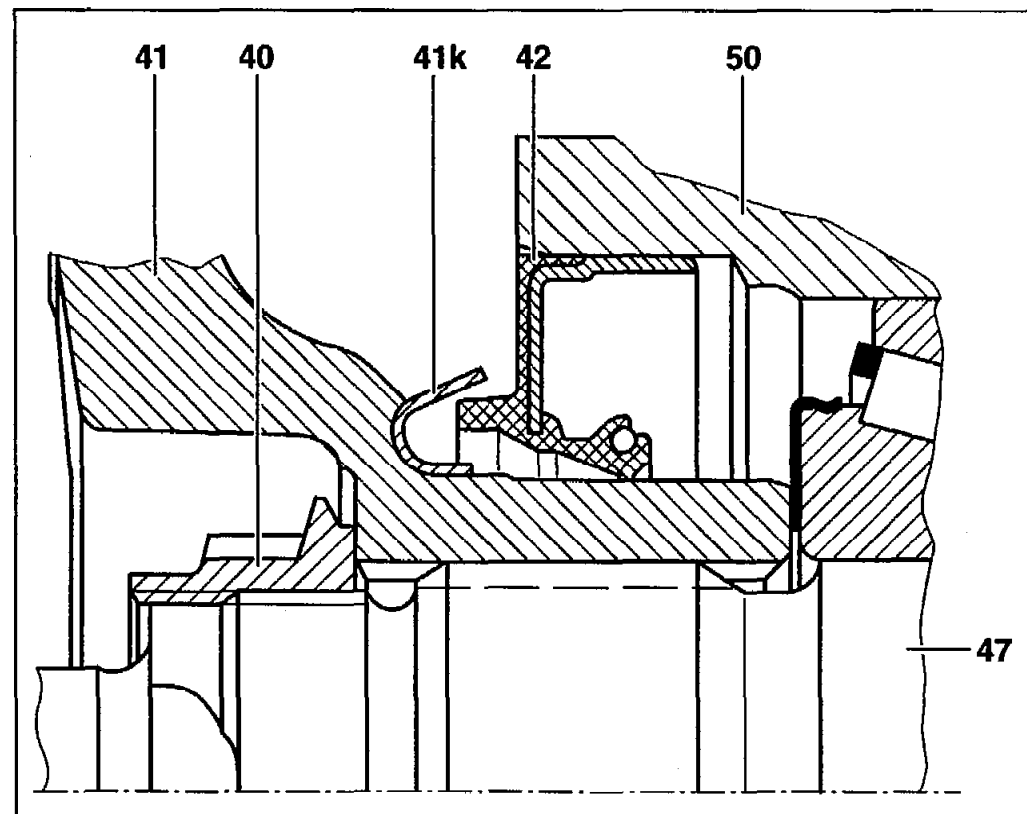
When installing the **new joint flange**, it is essential to install the **new radial seal ring** as well. This is the only way to ensure correct sealing

When the new radial seal ring is installed, the previous joint flange can continue to be installed.



*Version up to 31.03.98*

- 40 *Twelve-point collared nut*
- 41 *Joint flange*
- 41k *Joint flange protective ring*
- 42 *Radial seal ring*
- 50 *Rear axle housing*
- 47 *Drive pinion*

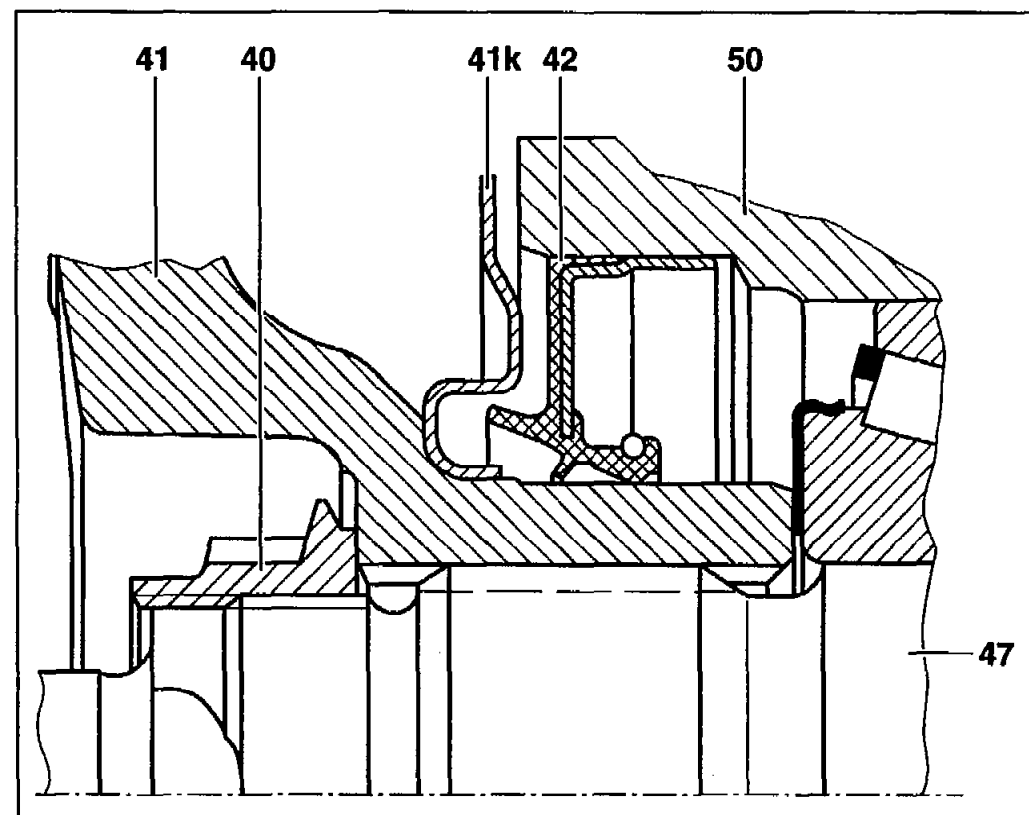


P35.31-2014-11



Version as of 01.04.98

- 40 Twelve-point collared nut
- 41 Joint flange
- 41k Joint flange protective ring
- 42 Radial seal ring
- 50 Rear axle housing
- 47 Drive pinion



P35.31-2015-11

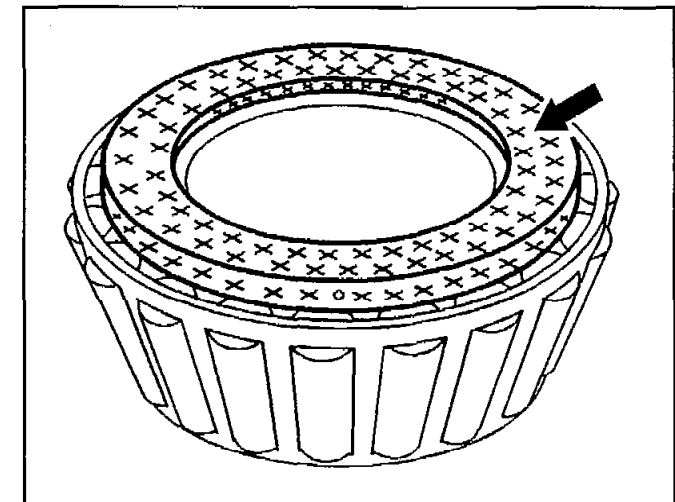
<b>M17</b>	BT35.31-P-9402-01A	Integrated thrust washer on tapered roller bearing inner race		BT
------------	--------------------	---	--	----

**Production breakpoint data/modifications/new features**

Rear axle center assembly dia.	Ratio i	Production period as of	Production period up to	Type of and reason for modification	Reference/comments
185		01.03.94			
210		14.02.94			

The thrust washer is permanently integrated on the small tapered roller bearing inner race of the drive pinion to facilitate assembly.

**i** The thrust washer was clipped onto the tapered roller bearing inner race with 3 retaining lugs on the previous version.



P35.31-0275-01



<b>N17</b>	BT35.31-P-0011-01B	Gear sets ground		 <b>BT</b>
------------	--------------------	------------------	--	---

***Rear axle center assembly dia. 168***  
***Rear axle center assembly dia. 185***  
***Rear axle center assembly dia. 198***  
***Rear axle center assembly dia. 210***

Ground gear sets are phased in as of 06/95.



The matching number is not used on the drive pinion and ring gear.




017	BT35.31-P-0011-01A	Gear sets ground		 BT
-----	--------------------	------------------	--	--

**Production breakpoint data/modifications/new features**

<i>World manufacturing code</i>	<i>Model</i>	<i>LHS RHS</i>	<i>Pro- duc- tion plant</i>	<i>Vehicle ident. end no. as of</i>	<i>Vehicle ident. end no. up to</i>	<i>Productio n period as of</i>	<i>Productio n period up to</i>	<i>Type of and reason for modification</i>	<i>Reference/comments</i>
491	201.028					01.07.90			
498	201.028					01.07.90			
491	201.029					01.07.90			
498	201.029					01.07.90			

Gear sets ground. Only with ratio 1 : 3.27 and 1 : 2.85  
Model years 91 and 92.




<b>P17</b> BT35.31-P-0007-01A	Imbalance on joint flange drive pinion reduced		 <b>BT</b>
-------------------------------	--	--	---

**Production breakpoint data/Modifications/New features**

<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for change</i>	<i>Comment/reference</i>
168		01.11.89			
185		01.11.89			
210		01.11.89			

Reduction of imbalance by balancing.



<b>A18</b>	BT35.31-P-0005-01A	Tightening torque of ring gear screws reduced		 <b>BT</b>
------------	--------------------	---	--	---

**Production breakpoint data/Modifications/New features**

<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for change</i>	<i>Comment/reference</i>
168		01.02.87			
185		01.02.87			

The tightening torque of the ring gear fixing screws has been reduced from 95 Nm to 85 Nm.





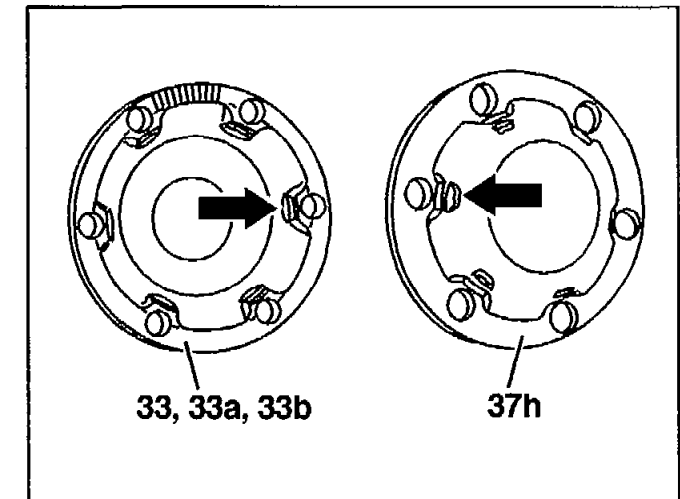
<b>B18</b>	BT35.31-P-0009-01A	Connecting flange with centering	<b>BT</b>
------------	--------------------	----------------------------------	-----------

**Production breakpoint data/Modifications/New features**

<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for change</i>	<i>Comment/reference</i>
168		01.04.91			
185		01.04.91			
210		01.04.91			

**Connecting flange with centering.**

The connection between the flange (33, 33a, 33b) and rear axle shaft has been made more accurate and the concentricity has been improved. The connecting flange (33, 33a, 33b) has turned surfaces and the end cover (37h) of the rear axle shaft has impressions (arrows).



P35.31-0470-01



<b>C18</b>	BT35.31-P-0006-01C	Balancing of differential housing		
------------	--------------------	-----------------------------------	--	--

**Production breakpoint data/modifications/new features**

<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for modification</i>	<i>Reference/comments</i>
185		01.02.90			

Two-plane balancing (dynamic) of differential housing to prevent vibrations.



<b>D18</b>	BT35.31-P-0006-01B	Balancing of differential housing		
------------	--------------------	-----------------------------------	--	--

**Production breakpoint data/modifications/new features**

<i>Rear axle center assembly dia.</i>	<i>Ratio i</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of and reason for modification Reference/comments</i>	<i>Verweis/Bemerkung</i>
210		01.01.90			

Two-plane balancing (dynamic) of differential housing to prevent vibrations.



<b>E18</b>	BT35.41-P-0001-01A	Modified ASD hydraulic unit	<b>BT</b>
------------	--------------------	-----------------------------	-----------

**Production breakpoint data/Modifications/New features**

<i>World manufacturer code</i>	<i>Model</i>	<i>LHS RHS</i>	<i>Prod. plant</i>	<i>Vehicle ident end no as of</i>	<i>Vehicle ident end no up to</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of modification and reason</i>	<i>Reference/remarks</i>
	129.060					01.04.91			
	129.061					01.04.91			
	140.02					01.04.91			
	140.03					01.04.91			
	140.1					01.04.91			

The measuring connection on the housing has been dispensed with as it is integrated in the pressure limiting valve.



<b>F18</b>	BT35.41-P-0001-01B	Modified ASD hydraulic unit	<b>BT</b>
------------	--------------------	-----------------------------	-----------

**Production breakpoint data/Modifications/New features**

<i>World manufacturer code</i>	<i>Model</i>	<i>LHS RHS</i>	<i>Prod. plant</i>	<i>Vehicle ident end no as of</i>	<i>Vehicle ident end no up to</i>	<i>Production period as of</i>	<i>Production period up to</i>	<i>Type of modification and reason</i>	<i>Reference/remarks</i>
	129.060					01.06.92			
	129.061					01.06.92			
	140.02					01.06.92			
	140.03					01.06.92			
	140.1					01.06.92			

As of production breakpoint the ASD hydraulic unit without accumulator has an operating pressure of 60 to 63 bar.