# Adjusting dimensions for inspection

	Model 107.02, 114, 115	1025 ± 0.3 mm	
d" of control mounts	Model 107.04	820 ± 0.3 mm	
earing of rear axle	Model 116	1214 ± 0.3 mm	
	Model 123	1190 ± 0.3 mm	
	Model 126	1192 ± 0.7 mm	
	Model 107.02, 114, 115	303 ± 0.5 mm	
rear axle carrier center	Model 116, 126	299 ± 0.5 mm	
Distance To lower edge of rear axle "e" from carrier center at rear end of measuring rear axle without drive table members¹) To center of drive	Model 123	314 ± 0.5 mm	
	Model 107.04	361 ± 0.5 mm	
	Model 107.042	269 ± 0.5 mm	
pinion pin of rear axle with drive members	Model 107.043/044/045/046	255 ± 0.5 mm	
	Model 107.02, 114, 115	293.5 ± 0.5 mm	
f" from measuring	Model 107.04	318 ± 0.5 mm	
ar axle shaft flange dge for wheel fit	Model 116, 126	282.5 ± 0.5 mm	
	Model 123	287.5 ± 0.5 mm	
	To upper edge of rear axle carrier center at front end  To lower edge of rear axle carrier center at rear end of rear axle without drive members¹)  To center of drive pinion pin of rear axle with drive members	d'' of control mounts earing of rear axle  Model 116  Model 123  Model 126  To upper edge of rear axle carrier center at front end  To lower edge of rear axle carrier center axle without drive members¹)  To center of drive pinion pin of rear axle with drive members  Model 107.042  Model 107.042  Model 107.042  Model 107.042  Model 107.043/044/045/046  Model 107.02, 114, 115  Model 107.02, 114, 115  Model 107.043/044/045/046  Model 107.02, 114, 115  Model 107.04  Model 107.04	

<sup>1)</sup> The measuring point refers to height of 12.5 mm bore.

#### Test values

Rear axle shaft flange	Lateral runout		0 to 0.1	12 mm
Camber (+) or (—)	Model 107.02 114, 115 1st version 123 1st version	114, 115 1st version		
	Model 107.042 1st versi 107.043/044	– 1° 20	- 1° 20′ ± 30′	
	Model 107.042 2nd vers 107.045/046	Model 107.042 2nd version 107.045/046		
	Model 116, 126 107.02 2nd version 123 2nd version		1°	± 30′
	Model 107.043/044, 114, 115, 116	per wheel	+ 0.5	+ 1.0 -0.5 mm
Toe-in (+) or toe-out (-) (measuring points for toe-in per wheel (VSR1), reference points for toe-in total (VSG1) <sup>1</sup> )	107.02/042 and 123 1st version	total	+ 1.0	+ 2.0 -1.0 mm
	Model 107.045/046 107.02/042 and 123	per wheel	+ 1.5	+ 0.5 -1.0 mm
	2nd version <sup>2</sup> ) 126	total	+ 3.0	+ 1.0 -2.0 mm

<sup>1)</sup> Measurement difference between front and rear in reference to 14" rim diameter (measuring points for toe-in per wheel (VSR1) and/or reference points for total toe-in (VSG1) at a distance of 185 mm from wheel center). The values correspond to those toe-in values resulting during running gear measurement.

The doubled measuring values resulting from the additional control measurement of the total toe-in (VSG2) (measuring points 370 mm from wheel center) must be halved for comparison with the total toe-in values (VSG1).

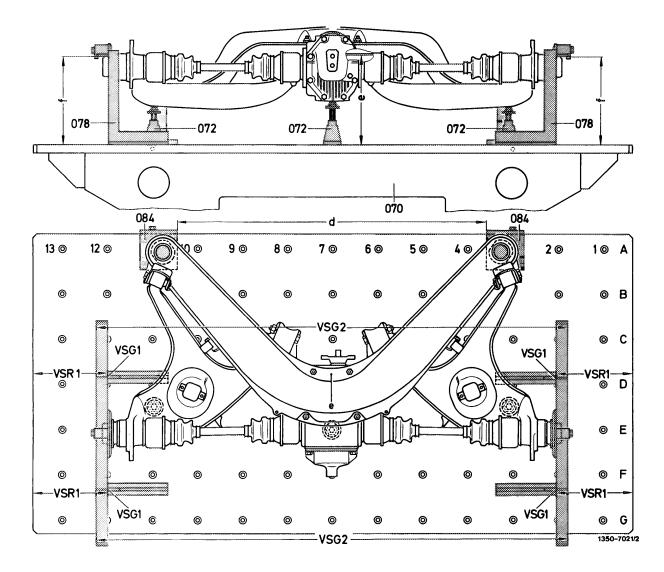
When comparing the toe-in measurement values obtained during running gear measurement with an axle measuring device in curb condition and measurement on the test bench in design position it must be noted that the values obtained during curb condition measurement can be 0.5 mm greater per wheel due to the higher semi-trailing arm position.

2) Identification characteristics on rear axle carrier 2nd version:
On model 123 additional bore of 10 mm dia, on the righthand, inner bearing bracket for connection of semitrailer.
On model 107,042 starting March 1980 and model 107,045/046 starting begin of production provided with spring bracket at outside with a recess.

#### Comparison table for toe-in millimeters/degrees

Toe-in (VSR1 or VSG1 when checking rear axle on measuring table 1)	corresponds to toe-in on axle measuring in- strument	Toe-in (VSR1 or VSG1) when checking rear axle on measuring table 1)	corresponds to toe-in on axle meas- uring instrument
0.5 mm	0 <sup>0</sup> 4' 30''	5.5 mm	0 <sup>0</sup> 49' 30''
1.0 mm	0 <sub>o</sub> 9,	6.0 mm	0 <sup>0</sup> 54'
1.5 mm	0 <sup>o</sup> 13' 30"	6.5 mm	0 <sup>o</sup> 58' 30''
2.0 mm	0 <sup>0</sup> 18'	7.0 mm	1 <sup>0</sup> 03'
2.5 mm	0° 22′ 30″	7.5 mm	1 <sup>o</sup> 07' 30''
3.0 mm	0 <sup>o</sup> 27'	8.0 mm	1 <sup>0</sup> 12'
3.5 mm	0 <sup>o</sup> 31' 30''	8.5 mm	1 <sup>0</sup> 16' 30''
4.0 mm	0 <sup>o</sup> 36'	9.0 mm	1 <sup>0</sup> 21'
4.5 mm	0 <sup>o</sup> 40' 30''	9.5 mm	1° 25′ 30′′
5.0 mm	0 <sup>o</sup> 45'	10.0 mm	1° 30′

<sup>1)</sup> Measuring values with reference to 14" rim dia. (distance 185 mm from wheel center).



- Adjusting dimension of control mounts for front bearings Height adjusting dimension for rear axle carrier center d

- VSR1
- VSG1
- Height adjusting dimension for rear axie carrier center.

  Height adjusting dimension to rear axie shaft flange on upper edge for wheel fit.

  Measuring points for toe-in per wheel (with reference to 14" rim dia at a distance of 185 mm from wheel center).

  Reference points for toe-in total (with reference to 14" rim dia at a distance of 185 mm from wheel center).

  Measuring points for additional control measurement of toe-in total (with reference to double 14" rim dia at a distance of 370 mm from wheel center). VSG2
- 070 Measuring table
- 072 078
- Jack Try square
- 084 Control mounts

## Semi-trailing arm position in design position

(For comparison, inspection on measuring table and chassis measurement)

Model	Diagonal swing axle	Diagonal swing axle with starting torque compensation
107.022 to August 1980 107.023, 107.024, 107.026	+ 16 mm	108 mm
107.022 starting September 1980	+ 19 mm	
107.025 <sup>1</sup> )	+ 14 mm	•
107.042 up to February 1980	+ 6 mm	
107.043, 044, 045, 046	+ 6 mm	97 mm
107.042 starting March 1980 107.045 (USA)	+ 11 mm	_
114, 115	+ 16 mm	_
116	+ 12 mm	105 mm
123	+ 21 mm	-
126	+ 12 mm	106 mm

<sup>1) (</sup>USA) + 19 mm.

# **Data Sheet for Rear Axle Wheel Location**

Checking on Test Bench of Vehicles Involved in and Suspected of being Involved in an Accident



3	ra	nc	h/	A	a	er	c	,

Customer

				Measure	ement car	ried out: Date/Name	Day	RepO	rder No.
	Registration Number Ir	nitial Registrat	tion	Model		Chassis No.		Speed	ometer reading: km/mi.
	Received from R	Received time	<del></del>	Receive	id by	Engine No.		Non-bii	nding delivery date
	-At					Measure	ment data		
	sting the diagonal swing axle odels 107, 114, 115, 116, 123, 126					prior to axle repair	following axle repair		Remarks
ete	Rear axle shaft flange		mm	left					
mple	Lateral runout		***************************************	right					
Wheel suspension, complete	O		-d	left					
nsio	Camber (+) or (-)		degrees	right					
dsne	Toe-in (+) or toe-out (-)			left					
eel s	(measuring points for toe-in per wheel (VSR1), reference points for total	heel	mm	right					
₹	toe-in (VSG1) 1) 2) 3)			total					
	Distance (b) between bearings me	easured		left	7				
E	across inner side	mm	right		:				
ing a				left					
Semitrailing arm	Camber (+) or (-)		degrees	right					
Ser	Toe-in (+) or toe-out (-) (measuring	na		left					
	points for toe-in per wheel (VSR1)		mm	right					
<u>~</u>	Distance (c) between front mount	ts	mm						
axle carrier					STA				
axle	Camber deviation (STA) and toe-in deviation (SPA)			left	SPA				
Rear	on the outer bearing brackets		mm		STA				
Œ	for hinging the semitrailing arms 4	)		right	SPA				

<sup>)</sup> Measurement difference between front and rear in reference to 14" rim diameter (measuring points for toe-in per wheel (VSR1) and/or reference points for total toe-in (VSG1) at a distance of 185 mm from wheel center). The values correspond to those toe-in values resulting during running gear measurement.

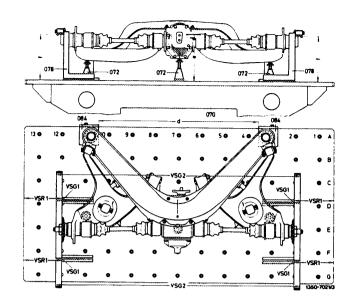
<sup>2)</sup> The doubled measuring values resulting from the additional control measurement of the total toe-in (VSG2) (measuring points 370 mm from wheel center) must be halved for comparison with the total toe-in values (VSG1).

When comparing the toe-in measurement values obtained during running gear measurement with an axle measuring device in curb condition and measurement on the test bench in design position it must be noted that the values obtained during curb condition measurement can be 0.5 mm greater per wheel due to the higher semitrailing arm position.

<sup>4)</sup> Measurement via light slit between the check support pin and the bore in the bearing bracket of the rear axle carrier. Even circumferential gap of light in the bore = 0 mm deviation. Pin contact in the bore = 1 mm deviation.

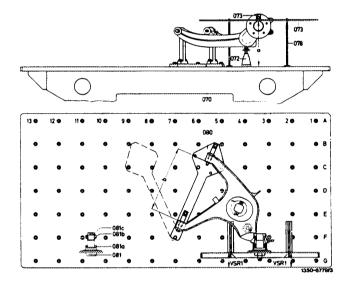
#### Testing Wheel Suspension, Complete

- d Adjustment dimension of the check supports for the front mounts of the rear axle carrier
- e Height adjusting dimension to center of rear axle carrier
- f Height adjusting dimension for rear axle shaft flange measured at upper edge of wheel centering collar
- VSR1 Measuring points for toe-in per wheel (in reference to 14" rim diameter at a distance of 185 mm from wheel center).
- VSG1 Reference points for total toe-in (in reference to 14" rim diameter at a distance of 185 mm from wheel center).
- VSG2 Measuring points for additional control measurement of the total toe-in (in reference to the doubled 14" rim diameter at a distance of 370 mm from wheel center).



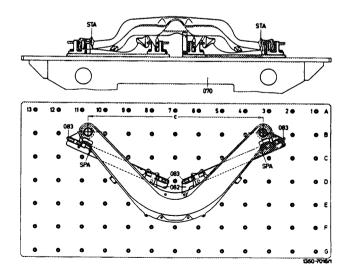
## **Testing Semitrailing Arm**

- a Height adjusting dimension for rear axle shaft flange measured at upper edge of wheel centering collar
- b Distance between bearings measured across inner side (control dimension)
- VSR1 Measuring points for toe-in per wheel (in reterence to 14" rim diameter at a distance of 185 mm from wheel center).



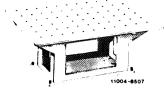
## **Testing Rear Axle Carrier**

- c Distance between front mounts (control dimension)
- STA Measuring points for camber deviation
- SPA Measuring points for toe-in deviation



## Required equipment

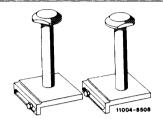
Measuring table with coordinate bore holes 13 mm dia F7, spacing 150 mm



BE 03600 1522 E 0145

#### Special tools

Control mounts for complete directional stability system



116 589 13 23 00

Intermediate rings for control mounts for complete wheel location model 126



126 589 00 63 00

Jack, adjustable from 100 to 160 mm (required 3 each)



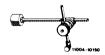
116 589 08 31 00

Straightedge (750 mm long) with holder (required 2 each)



116 589 12 31 00

Magnetic holder for dial gauge



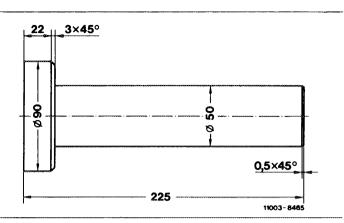
363 589 02 21 00

Measuring flange for semi-trailing arm and coupled semi-trailing arm without wheel bearing



116 589 31 21 00

Measuring base for magnetic holder Material: steel



#### Conventional tools

Dial gauge A 1 DIN 878	e.g. made by Mahr D-7300 Esslingen		
	Order no. 810		
Extension 50 mm	e.g. made Mahr D-7300 Esslingen		
for dial gauge	Order no. 902		
Try square 300 x 200 mm	e.g. made by Stiefelmayer D-7300 Esslingen		
(required 2 each)	Order no. 151 AR		
Height measuring and tracing	e.g. made by Stiefelmayer D-7300 Esslingen		
tool size III	Order no. 5 V		
Bell-type mount for angle	e.g. made by Beissbarth D-8000 Munich		
measuring tool	Order no. P1/96		
Anala massurina tool	e.g. made by Beissbarth D-8000 Munich		
Angle measuring tool	Order no. P 10/05		

#### Notes

Measuring of complete directional stability system will be of advantage if chassis measurements cannot be made on a vehicle following an accident with e.g. heavy front axle or front end damage or also if chassis measurements provide no clear-cut diagnosis of rear axle. If such measurements are within the specified tolerances, additional checkups of the individual semi-trailing arms and rear axle carriers are not required.

A checkup of the complete directional stability system is not required if a visual checkup is already showing deformations on rear axle carrier or on a semi-trailing arm. In such a case, check the individual components whenever required.

Measuring of complete directional stability system is principally the same for all axles of the respective models; only the different adjusting dimensions must be taken into account when making preparations for measuring.

For measuring the directional stability system and its various components a measuring table of 2000 x 1000 mm will be required. The measuring table has coordinate bore holes of 13 mm dia F7 spaced 150 mm apart for locating the control mounts. The coordinate bore holes are identified in longitudinal direction with the numbers 1 to 13 and in transverse direction with the letters A to G.

The principle of checking the complete directional stability system and the semi-trailing arms is about the same as for chassis measurements. The optical rectangular established around the vehicle for chassis measurements is replaced by the measuring table for the mechanical measurement of the directional stability system and its components.

The mesuring values before and following axle reconditioning must be recorded in "Data sheet for directional stability of rear axle".

For checking on measuring table, the components of the directional stability system are located on measuring table in such a manner that the position of the semi-trailing arms corresponds to the design position, i.e. to a medium vehicle load. When comparing the measuring values between the checkup on the measuring table and the chassis measurements with vehicle ready for driving, refer to table "Semi-trailing arm position in design position".

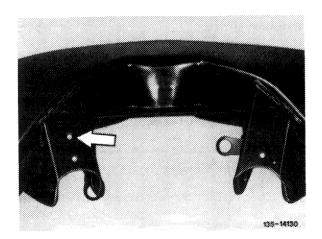
The checkup of the complete directional stability system of rear axle comprises:

- a) Checking rear axle shaft flanges for lateral runout
- b) Rear axle camber
- c) Toe-in per wheel (VSR1), total toe-in (VSG 1 and VSG 2)

On rear axle carrier for model 123, starting April 1977, a change has been made on bearing brackets for connection of semi-trailing arms. Compared with the 1st version, the camber of the complete directional stability system has been changed in minus direction by approx. 0° 15′ and the toe-in in plus direction by approx. 1.0 mm per wheel.

Identification starting January 1978 for rear axle carrier of 2nd version:

Additional bore of 10 mm dia at right-hand, inner bearing for connection of semi-trailing arm (arrow).



# Series production of rear axle carrier 2nd version on model 123

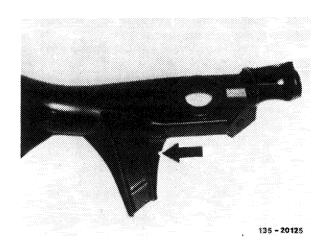
Model		Starting chassis end no.	Model		Starting chassis end no.
Sedans	123.020	038 541	Sedans long	123.028	022 886
	123.023	048 372		123.125	033 764
	123.026	022 886		123.132	042 755
	123.030	016 635			
	123.033	024 625	T sedans	123.083	000 001
	123.120	053 863		123.086	000 001
	123.123	033 764		123.093	000 001
	123.126	022 239		123.183	000 001
	123.130	043 755		123.190	000 001
Coupes	123.043	000 001	Special vehicles	123.000	048 372
<b>.</b>	123.050	000 001	(bodies made by	123.003	022 886
	123.053	000 001	others)	123.007	000 001
	123.150	000 001		123.102	033 764
	.20,,00			123.103	033 764
				123.105	043 755

On rear axle carrier for model 107.022 starting September 1980 and 107.042 starting March 1980, the bearing brackets for swivelling semi-trailing arm has been modified. As a result, compared with 1st version, the complete wheel location resulted in a change of toein in plus direction by approx. 1.0 mm per wheel.

Identifying characteristics starting March or September 1980 for rear axle carrier of 2nd version:

Additional bore of 10 mm dia. on righthand, inner bearing bracket for swivelling semi-trailing arm on model 107.022 and on model 107.042 provided with a recess on both resilient stops on outer side (arrow).

Beginn of series production of rear axle carrier 2nd version on model 107.022 and 107.042, no chassis end number has been recorded.



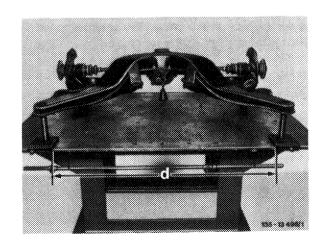
#### Preparation for checkup

- 1 Remove brake caliper and brake disc (42-228).
- 2 Force both rubber mounts of front rear axle bearings out of rear axle carrier (35-040).

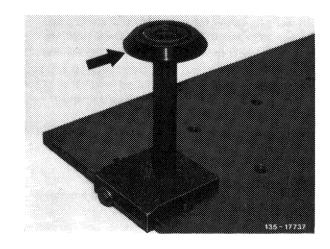
3 Set distance "d" of control mounts on measuring table and attach control mounts.

#### **Adjusting dimensions**

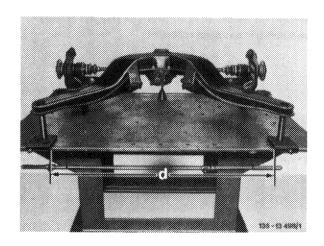
Model 107.02, 114, 115	1025 ± 0.3 mm
Model 107.04	820 ± 0.3 mm
Model 116	1214 ± 0.3 mm
Model 123	1190 ± 0.3 mm
Model 126	1192 ± 0.7 mm



4 On model 126, include additional intermediate rings on control mounts (arrow).



5 Place directional stability assembly on control mounts and support rear axle center housing or rear axle carrier center as well as both semi-trailing arms by means of jacks.

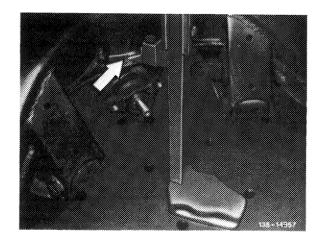


6 Distance "e" on models 107.02, 114, 115, 116, 123 and 126 on rear axle with or without drive members, adjust rear axle carrier at front end (arrow) by means of a height measuring instrument from measuring table to upper edge of rear axle carrier center. For this purpose, change height of jack accordingly.

#### Adjusting dimensions

Model 107.02, 114, 115	303 ± 0.5 mm
Model 116, 126	299 ± 0.5 mm
Model 123	314 ± 0.5 mm

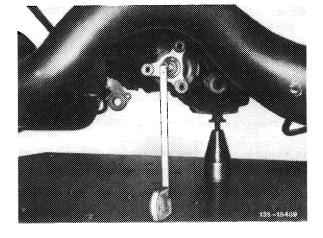
Note: The adjusting dimension refers to surface of upper shell of rear axle carrier. Pay attention to weld seam in measuring range, if applicable.



7 Adjust distance "e" on model 107.04 on one rear axle with drive members by means of a precision measuring tape or height measuring tool from measuring table to center of pin on drive pinion. For this purpose, change height of jack accordingly.

#### Adjusting dimensions

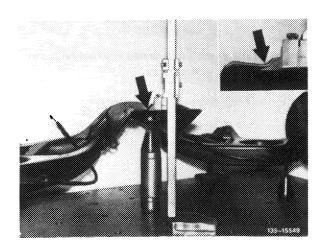
Model 107.042	269 ± 0.5 mm
Model 107.043/044 107.045/046	255 ± 0.5 mm



8 Adjust distance "e" on model 107.04 on one rear axle without drive members with a height measuring tool from measuring table to bottom edge of rear axle carrier at rear end in center to height of 12.5 mm bore (arrow). For this purpose, change height of jack accordingly.

#### Adjusting dimension

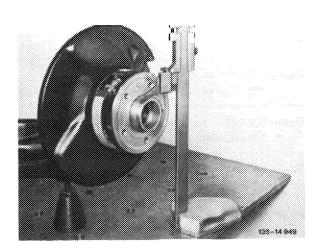
Model 107.04	361 ± 0.5 mm	



9 Adjust distance "f" with a height measuring tool from measuring table of upper edge of wheel fit on rear axle shaft flange left and right. For this purpose, change height of jack accordingly.

#### Adjusting dimensions

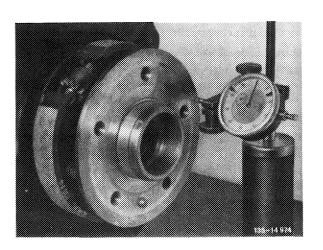
293.5 ± 0.5 mm	
318 ± 0.5 mm	
282.5 ± 0.5 mm	
287.5 ± 0.5 mm	



#### Checkup

#### Rear axle shaft flange

10 Check rear axle shaft flange at left and right for lateral runout. For this purpose, use dial gauge with magnetic holder and self-made measuring base.



#### Attention!

If lateral runout of rear axle shaft flange is above permissible tolerance range, insert measuring flange for additional checkups.

#### Mount measuring flange:

- a) Remove rear axle shaft flange (35-130).
- b) Knock-out outer race of inner tapered roller bearing, pull off outer race of outer tapered roller bearing by means of pertinent device.
- c) Introduce measuring flange with outer spacing ring. Mount inner spacing ring with small diameter facing flange end and slightly tighten slot nut.

#### Attention!

Measuring flange should be seated in wheel carrier of semi-trailing arm without play.

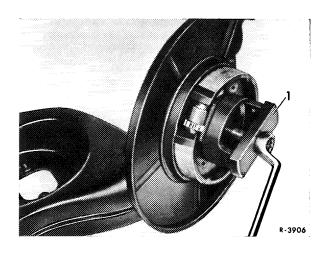
75 Semi-trailing arm 081 Measuring flange 081a Outer spacer ring (pressed-on) 081b Inner spacer ring 081c Slot nut

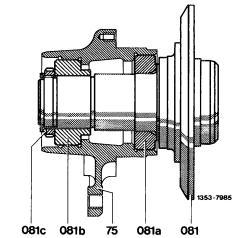
#### Rear wheel camber

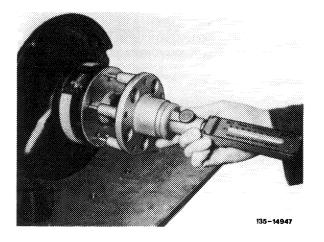
11 Measure rear wheel camber left and right, using angle measuring instrument with bell-type mount for this purpose.

#### Test values

Model	107.02, 114, 115 123 1st version	-0° 45′ ± 30′	
Model	107.042 1st version 107.043/044	-1° 20′±30′	
Model	107.042 2nd version 107.045/046	-1° 30′ ± 30′	
Model	116, 126 123 2nd version	-1° ±30′	







#### Note:

## a) Steel plate semi-trailing arm

If the camber is higher than the permissible tolerance range, the fault may be a distortion of the semi-trailing arm itself or of the bearing brackets on rear axle carrier. However, experience has shown that on steel plate semi-trailing arms a distortion is mainly characterised by a misalignment (deviation) in direction of track.

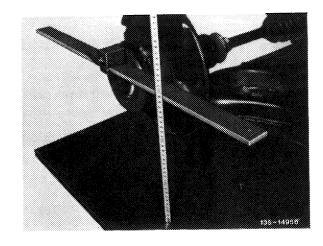
## b) Light alloy coupled semi-trailing arm

If the camber is higher than the permissible tolerance range, the fault may be a distortion of the separate wheel carrier or of the bearing brackets of rear axle carrier, or a distortion of both components. The cast light alloy coupled semi-trailing arm itself will not yield both in direction of camber and track. If the wheel carrier is only slightly distorted in direction of camber, continued use of semi-trailing arm in combination with a new wheel carrier is permitted. In the event of major distortions of wheel carrier (camber misalignment more than 10), the semi-trailing arm should be replaced for safety reasons to eliminate any risk of incipient cracks.

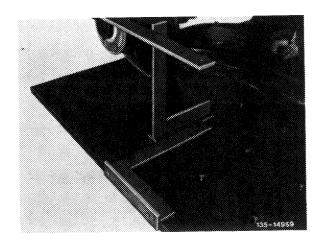
# Toe-in per wheel (VSR 1) and total toe-in (VSG1)

Note: A straightedge on rear axle shaft flange serves for measuring toe-in. Measuring points for toe-in per wheel (VSR1) are the inside marks applied 185 mm from wheel center with reference to 14" rim dia. The measuring values thereby correspond to values of chassis measurements at respective position of semi-trailing arms (also refer to comparison table for toe-in values in millimeters and degrees). The outer marks on straightedge at a distance of 370 mm from wheel center are serving for an additional reference measurement of total toe-in (VSG2). For technical reasons the double toe-in is measured, so that the value must be halved for comparison with toe-in values (VSG1) with reference to 14" rim dia.

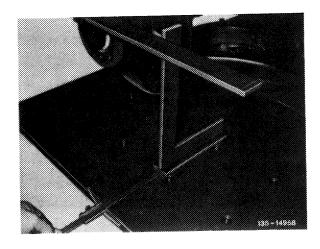
12 Attach straightedge with holder to rear axle shaft flange while paying attention to the two markings for wheel center. Set straightedge into horizontal position by measuring and compensating vertical distance of straightedge in relation to measuring table both at front and rear.



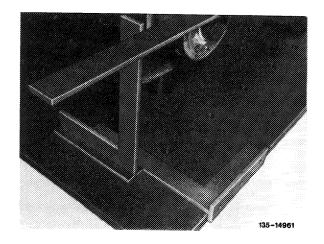
13 Position try square at front against inner mark of straightedge, using a second try square for this purpose.



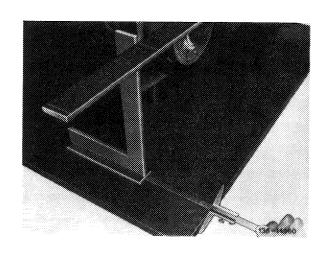
14 Measure front distance from edge of measuring table to try square or to straightedge by means of depth gauge and write down value.



15 Place try square at the rear against inner mark of straightedge using a second try square for this purpose.



16 Measure rear distance from edge of measuring table to try square or to straightedge with depth gauge and write down value.



17 To find toe-in per wheel (VSR1) determine difference between values measured at the front and rear and enter into data sheet. The sum of measurements at left and right provide the total toe-in (VSG1).

# Attention! Make sure whether there is toe-in (+) in toe-out (—)!

Test values	Toe-in per wheel (VSR1)
Model 114, 115, 116 107, 123 1st versi	+ 0,5 + 1,0 on + 0,5 - 0,5 mm
Model 107, 123 2nd vers	ion + 1,5 ± 1,0 mm

Test values To	tal toe-i	n (VSG1)
Model 114, 115, 116 107, 123 1st version	+ 1,0	+ 2,0 -1,0 mm
Model 107, 123 2nd version 126	+ 3,0	± 1,5 mm

# Example: Model 123 2nd version Toe-in per wheel (VSR1)

## Left-hand wheel:

Front value	=	162.5 mm
Rear value	=	161.0 mm
results in difference		
or toe-in	=	+ 1.5 mm
Right-hand wheel:		
Front value	=	157.0 mm
Rear value	=	150.5 mm
results in difference		
or toe-in	=	+ 6.5 mm
Totał toe-in (VSG1)		
Toe-in left-hand wheel	=	+ 1.5 mm
Toe-in right-hand wheel	=	+ 6.5 mm
results in		2.2
Total toe-in	=	+ 8.0 mm

Note: The example shows a toe-in for lefthand wheel which is in order, while the righthand wheel is subject to a distortion of semi-trailing arm or rear axle carrier, which resulted in a larger toe-in. For additional evaluation, the righthand semi-trailing arm and the rear axle carrier must be additionally checked. Experience has shown that with larger deviations of toe-in (more than 6 mm per wheel), both the steel plate semi-trailing arm as well as the respective bearing brackets of the rear axle carrier are no longer in order.

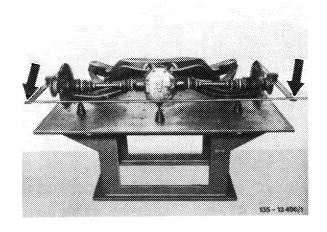
On the other hand, with a cast light alloy coupled semi-trailing arm, which is not yielding both in direction of camber and track, a misalignment (deviation) of toe-in is mainly having an influence on bearing brackets of rear axle carrier. A distortion of wheel carrier may also be included (refer to section "Rear wheel camber", as well as to 35–420 "Checking semi-trailing arms").

Since a light alloy coupled semi-trailing arm is subject to a risk of incipient cracks, replace for safety reasons, if

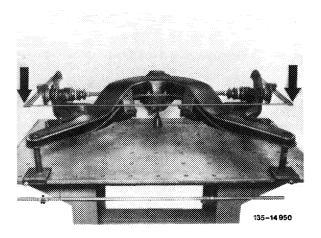
- a) the wheel carrier is distorted in direction of track. Check during individual checkup of semi-trailing arm (35–420).
- b) the rear axle carrier shows major distortions on bearing brackets (deviations in direction of track or camber more than 5 mm). Check during individual checkup of rear axle carrier (35–430).

# Total-toe-in (VSG2) (Additional reference measurement)

18 Measure at outer marks of straightedge the distance at the rear from left to right by means of a precision measuring tape and write down value.



19 Measure distance at front from left to right at outer marks of straightedges and also write down value.



20 To determine total toe-in (VSG2) determine difference between values measured at front and rear, making sure whether it is toe-in (+) or toe-out (—).

Half the measuring value is the value of the total toein (VSG1) with reference to rim dia.

# Example:

Rear value = 1587 mm Front value = 1571 mm

results in difference

or total toe-in (VSG 2) = + 16 mm

corresponding to

total toe-in (VSG1) = + 8 mm