

# Tables on Springs and Shock Absorbers

Job No.

32-7

## A. Front Springs and Associated Front Shock Absorbers

Model	Front spring Part No.	Remarks	Associated shock absorbers Part No. Designation
<b>Standard Front Springs</b>			
180, 180 a, 180 b, 190, 190 b	120 321 14 04		To fit control arms with a 48 mm $\phi$ through bore: 121 323 00 00 F. & S. Sov 26 x 130 121 323 01 00 Stabilus T 40 x 130 To fit control arms with a 58 mm $\phi$ through bore: 120 323 00 00 F. & S. Sov 26 x 130
180 D, 180 Db	120 321 15 04		
190 D, 190 Db	121 321 06 04		120 323 00 00 F. & S. Sov 26 x 130
190 SL	121 321 04 04		121 323 02 00 F. & S. Tov 36 x 130
219	180 321 10 04		180 323 00 00 F. & S. Tov 36 x 130 180 323 02 00 Stabilus T 40 x 130
220 a, 220 S	180 321 07 04	On Model 220 S 1 <sup>st</sup> Version	180 323 00 00 F. & S. Tov 36 x 130 180 323 02 00 Stabilus T 40 x 130 180 323 05 00 Bilstein Type 062
220 S	180 321 15 04	2 <sup>nd</sup> Version	
220 S — Convertible and Coupé	180 321 14 04	1 <sup>st</sup> Version	
	180 321 13 04	2 <sup>nd</sup> Version	
	180 321 18 04	3 <sup>rd</sup> Version	
220 SE	180 321 15 04		
220 SE — Convertible and Coupé	180 321 18 04		

### Harder Front Springs for Normal Road Conditions

Model	Front spring Part No.	Remarks	Associated shock absorbers Part No. Designation
180, 190	120 321 16 04	1 <sup>st</sup> Version	To fit control arms with a 48 mm $\phi$ through bore: 121 323 00 00 F. & S. Sov 26 x 130 121 323 01 00 Stabilus T 40 x 130
	120 321 19 04	2 <sup>nd</sup> Version	
180 D	120 321 17 04	1 <sup>st</sup> Version	To fit control arms with a 58 mm $\phi$ through bore: 120 323 00 00 F. & S. Sov 26 x 130
	120 321 20 04	2 <sup>nd</sup> Version	
180 a, 180 b, 190 b	120 321 19 04		120 323 00 00 F. & S. Sov 26 x 130
180 Db, 190 D, 190 Db	120 321 20 04		
219	180 321 09 04	1 <sup>st</sup> Version	180 323 00 00 F. & S. Tov 36 x 130 180 323 02 00 Stabilus T 40 x 130
	180 321 12 04	2 <sup>nd</sup> Version	
220 a, 220 S — 220 S — Convert. and Coupé	180 321 16 04	On Models 220 S, 220 S — Convertible and Coupé 1 <sup>st</sup> Version	180 323 00 00 F. & S. Tov 36 x 130 180 323 02 00 Stabilus T 40 x 130 180 323 05 00 Bilstein Type 062
220 S, 220 S — Convert. and Coupé 220 SE, 220 SE — Convert. and Coupé	180 321 17 04	On Models 220 S, 220 S — Convertible and Coupé 2 <sup>nd</sup> Version	

### Harder Front Springs for Bad Road Conditions and Export Front Springs

Model	Front spring Part No.	Remarks	Associated shock absorbers Part No. Designation
180, 190	120 321 16 04	1st Version	<p>180 323 03 00 Stabilus T 50 x 130/5</p> <p>In the case of cars with control arms with a 48 mm <math>\phi</math> through bore new control arms with a 58 mm <math>\phi</math> through bore should be installed</p>
	120 321 19 04	2nd Version	
180 D	120 321 17 04	1st Version	
	120 321 20 04	2nd Version	
180 a, 180 b, 190 b	120 321 19 04		<p>180 323 03 00 Stabilus T 50 x 130/5</p>
180 Db, 190 D, 190 Db	120 321 20 04		
219	180 321 09 04	1st Version	
	180 321 12 04	2nd Version	
220 a, 220 S — 220 S — Convert. and Coupé	180 321 16 04	On Models 220 S, 220 S — Convertible and Coupé 1st Version	
220 S, 220 S — Convert. and Coupé 220 SE, 220 SE — Convert. and Coupé	180 321 17 04	On Models 220 S, 220 S — Convertible and Coupé 2nd Version	

Harder Front Springs for Police Radio Cars			
Model	Front spring Part No.	Remarks	Associated shock absorbers Part No.      Designation
180, 190	120 321 16 04	1 <sup>st</sup> Version	To fit control arms with a 48 mm $\phi$ through bore: 121 323 00 00 F. & S. Sov 26 x 130 121 323 01 00 Stabilus T 40 x 130
	120 321 19 04	2 <sup>nd</sup> Version	
180 D	120 321 17 04	1 <sup>st</sup> Version	To fit control arms with a 58 mm $\phi$ through bore: 120 323 00 00 F. & S. Sov 26 x 130
	120 321 20 04	2 <sup>nd</sup> Version	
180 a, 180 b, 190 b	120 321 19 04		120 323 00 00 F. & S. Sov. 26 x 130
180 Db, 190 D, 190 Db	120 321 20 04		
219	180 321 09 04	1 <sup>st</sup> Version	180 323 00 00 F. & S. Tov 36 x 130
	180 321 12 04	2 <sup>nd</sup> Version	
220 a, 220 S	180 321 16 04	On Model 220 S 1 <sup>st</sup> Version	180 323 00 00 F. & S. Tov 36 x 130
220 S, 220 SE	180 321 17 04	On Model 220 S 2 <sup>nd</sup> Version	
Harder Front Springs for Special-Purpose Vehicles			
180, 190	120 321 16 04	1 <sup>st</sup> Version	To fit control arms with a 48 mm $\phi$ through bore: 121 323 00 00 F. & S. Sov 26 x 130 121 323 01 00 Stabilus T 40 x 130
	120 321 19 04	2 <sup>nd</sup> Version	
180 D	120 321 17 04	1 <sup>st</sup> Version	To fit control arms with a 58 mm $\phi$ through bore: 120 323 00 00 F. & S. Sov 26 x 130
	120 321 20 04	2 <sup>nd</sup> Version	
180 a, 180 b, 190 b	120 321 19 04		120 323 00 00 F. & S. Sov 26 x 130
180 Db, 190 D, 190 Db	120 321 20 04		

## Harder Front Springs for the Needs of Sports Enthusiasts

Model	Front spring Part No.	Remarks	Associated shock absorbers Part No.      Designation
190 SL	121 321 05 04		121 323 03 00 F. & S. Tov 36 x 130
219, 220 a 220 S	180 321 09 04	1 <sup>st</sup> Version	180 323 01 00 F. & S. Tov 36 x 130
	180 321 12 04	2 <sup>nd</sup> Version	
220 SE 220 S — Convert. and Coupé 220 SE — Convert. and Coupé	180 321 12 04		

## B. Rear Springs and Associated Rear Shock Absorbers

Model	left "L" right "R"	Rear spring Part No.	Load capacity (maximum rear axle load) kg	Remarks	Associated shock absorbers Part No. Designation
Standard Rear Springs					
180, 180 D	L	120 324 11 04	880	For cars with twin-jointed rear axle 1 <sup>st</sup> Version	000 326 55 00 F. & S. Sov 26 x 130
	R				
	L	120 324 15 04		For cars with twin-jointed rear axle 2 <sup>nd</sup> Version	
	R				
180, 180 D	L	121 324 20 04	880	For Model 180 D with single-jointed rear axle 1 <sup>st</sup> Version	121 326 00 00 F. & S. Tov 30 x 140 (1 <sup>st</sup> Version)
	R	121 324 21 04			
180 D	L	105 324 00 04	900	For Model 180 D with single-jointed rear axle 2 <sup>nd</sup> Version	
	R	105 324 01 04			
190	L	121 324 20 04	880	1 <sup>st</sup> Version	121 326 01 00 Stabilus T 40 x 140 (2 <sup>nd</sup> Version)
	R	121 324 21 04			
	L	105 324 00 04	900	2 <sup>nd</sup> Version	
	R	105 324 01 04			
180 a, 180 b, 180 Db 190 b, 190 D, 190 Db	L	105 324 00 04	900		121 326 01 00 Stabilus T 40 x 140
	R	105 324 01 04			
190 SL	L	121 324 18 04	700		121 326 02 00 F. & S. Tov 36 x 130
	R	121 324 19 04			
219	L	105 324 00 04	900		121 326 01 00 Stabilus T 40 x 140 180 326 04 00 Bilstein Type 063
	R	105 324 01 04			

Model	left "L" right "R"	Rear spring Part No.	Load capacity (maximum rear axle load) kg	Remarks	Associated shock absorbers Part No. Designation	
220 a, 220 S	L	180 324 15 04	940	1 <sup>st</sup> Version	180 326 00 00 F. & S. Tov 36 x 140 121 326 01 00 Stabilus T 40 x 140 180 326 04 00 Bilstein Type 063 (In case of repairs only Bilstein Shock-Absorbers must be installed.)	
	R	180 324 16 04				
	L	105 324 00 04		2 <sup>nd</sup> Version (only in connection with Bilstein Shock Absorbers)		
	R	105 324 01 04				
220 S Convertible and Coupé	L	180 324 28 04	925	1 <sup>st</sup> Version		
	R	180 324 29 04				
	L	180 324 15 04	940	2 <sup>nd</sup> Version		
	R	180 324 16 04				
	L	105 324 00 04		3 <sup>rd</sup> Version (only in connection with Bilstein Shock Absorbers)		
	R	105 324 01 04				
220 SE Convertible and Coupé	L	105 324 00 04	940		180 326 04 00 Bilstein Type 063	
	R	105 324 01 04				

### Harder Rear Springs for Normal Road Conditions

Model	left "L" right "R"	Rear spring Part No.	Load capacity (maximum rear axle load) kg	Remarks	Associated shock absorbers Part No. Designation
180, 180 D	L R	120 324 17 04	880	For cars with twin-jointed rear axle 1st Version	000 326 55 00 F. & S. Sov 26 x 130
	L R	120 324 23 04		For cars with twin-jointed rear axle 2nd Version	
180, 180 D	L	121 324 22 04	940	For cars with single-jointed rear axle 1st Version	121 326 00 00 F. & S. Tov 30 x 140 (1st Version) 121 326 01 00 Stabilus T 40 x 140 (2nd Version)
	R	121 324 23 04			
	L	180 324 26 04		For cars with single-jointed rear axle 2nd Version	
	R	180 324 27 04			
190	L	121 324 22 04	940	1st Version	
	R	121 324 23 04			
	L	180 324 26 04		2nd Version	
	R	180 324 27 04			
180a, 180b, 180Db, 190b, 190D, 190Db	L	180 324 26 04	940		121 326 01 00 Stabilus T 40 x 140
	R	180 324 27 04			
219	L	121 324 22 04	940	1st Version	121 326 01 00 Stabilus T 40 x 140 180 326 04 00 Bilstein Type 063
	R	121 324 23 04			
	L	180 324 26 04	940	2nd Version	
	R	180 324 27 04			
220 a, 220 S, 220 S Convertible and Coupé	L	180 324 23 04	940	1st Version	180 326 00 00 F. & S. Tov 36 x 140 121 326 01 00 Stabilus T 40 x 140 180 326 04 00 Bilstein Type 063
	R	180 324 24 04			
220 a, 220 S, 220 S Convertible and Coupé	L	180 324 26 04	940	2nd Version	
	R	180 324 27 04			
220 SE, 220 SE Convertible and Coupé	L	180 324 26 04	940		180 326 04 00 Bilstein Type 063
	R	180 324 27 04			



## Harder Rear Springs for Bad Road Conditions

Model	left "L" right "R"	Rear spring Part No.	Load capacity (maximum rear axle load) kg	Remarks	Associated shock absorbers Part No. Designation
180, 180 D	L R	120 324 17 04	880	For cars with twin-jointed rear axle 1st Version	120 320 08 31 F. & S. Tov 30 x 120 120 320 11 31 Stabilus T 40 x 120
	L R	120 324 23 04		For cars with twin-jointed rear axle 2nd Version	
180, 180 D	L	121 324 22 04	940	For cars with single-jointed rear axle 1st Version	180 326 02 00 Stabilus T 50 x 130/6
	R	121 324 23 04			
	L	180 324 26 04		For cars with single-jointed rear axle 2nd Version	
	R	180 324 27 04			
190	L	121 324 22 04	940	1st Version	
	R	121 324 23 04			
	L	180 324 26 04		2nd Version	
	R	180 324 27 04			
180 a, 180 b, 180 Db 190 b, 190 D, 190 Db	L	180 324 26 04	940		
	R	180 324 27 04			
219	L	121 324 22 04	940	1st Version	
	R	121 324 23 04			
	L	180 324 26 04		2nd Version	
	R	180 324 27 04			
220 a, 220 S, 220 S Convertible and Coupé	L	180 324 23 04	940	1st Version	
	R	180 324 24 04			
220 a, 220 S, 220 S Convertible and Coupé 220 SE, 220 SE Convertible and Coupé	L	180 324 26 04	940	On Models 220 a, 220 S, and 220 S Convertible and Coupé 2nd Version	
	R	180 324 27 04			

### Harder Rear Springs for Police Radio Cars

Model	left "L" right "R"	Rear spring Part No.	Load capacity (maximum rear axle load) kg	Remarks	Associated shock absorbers Part No. Designation
180, 180 D	L	120 324 17 04	880	On cars with twin-jointed rear axle 1 <sup>st</sup> Version	120 320 08 31 F. & S. Tov 30 x 120 120 320 11 31 Stabilus T 40 x 120
	R				
	L	120 324 23 04		On cars with twin-jointed rear axle 2 <sup>nd</sup> Version	
	R				
	L	120 324 21 04	1000	On cars with twin-jointed rear axle 3 <sup>rd</sup> Version	
	R				
180, 180 D, 180 a, 180 b, 180 Db, 190, 190 b, 190 D, 190 Db	L	121 324 12 04	1100	On Models 180 and 180 D only for cars with single-jointed rear axle	121 326 03 00 F. & S. Tov 36 x 130
	R	121 324 13 04			
219, 220 a, 220 S, 220 SE	L	180 324 23 04	940	1 <sup>st</sup> Version	180 326 02 00 Stabilus T 50 x 130/6
	R	180 324 24 04			
	L	180 324 26 04	940	2 <sup>nd</sup> Version	
	R	180 324 27 04			
	L	121 324 12 04	1100	3 <sup>rd</sup> Version	
	R	121 324 13 04			

### Harder Rear Springs for Special-Purpose Vehicles

Model	left "L" right "R"	Rear spring Part No.	Load capacity (maximum rear axle load) kg	Remarks	Associated shock absorbers Part No. Designation
180, 180 D	L	120 324 22 04	1100	For cars with twin-jointed rear axle (rear axle load "in curb condition" less than 650 kg)	120 320 08 31 F. & S. Tov 30 x 140 120 320 11 31 Stabilus T 40 x 120
	R				
	L	120 324 21 04	1000	For cars with twin-jointed rear axle (rear axle load "in curb condition" more than 650 kg) 1st Version	
	R				
	L	120 324 20 04	1100	For cars with twin-jointed rear axle (rear axle load "in curb condition" more than 650 kg) 2nd Version	
	R				
180, 180 a, 180 b, 180 D, 180 Db, 190, 190 b, 190 D, 190 Db	L	121 324 12 04	1100	On Models 180 and 180 D only for cars with single-jointed rear axle	121 326 03 00 F. & S. Tov 36 x 130
	R	121 324 13 04			
	L	121 324 24 04	1250		
	R				
219, 220 a, 220 S, 220 SE	L	121 324 12 04	1100		180 326 02 00 Stabilus T 50 x 130/6
	R	121 324 13 04			

### Rear Springs and Shock Absorbers for the Needs of Sports Enthusiasts

219, 220 a, 220 S	L	Rear spring Part No.	940		180 326 01 00 F. & S. Tov 36 x 130
	R				
190 SL	L	Standard rear spring	700		121 326 04 00 F. & S. Tov 36 x 130
	R				

### C. Test Values of Front Springs

Front spring Part No.	Test values							
	Free length of spring "L" mm	Trim dimension, i. e. spring length "L" under normal load P mm	Load P normal kg	Load P maximal kg	Spring rate per 100 kg of load mm	Wire gage "d" mm $\phi$	Mean coil diameter "D" mm	Number of coils
120 321 14 04	339	216	570	819	21.7	15.1	110	8.5
120 321 15 04	344	216	623	886	20.5	15.1	110	8
120 321 16 04	328	216	570	844	19.7	15.25	110	8
120 321 17 04	322	216	623	913	18.65	15.35	109	8
120 321 19 04	334	222	570	844	19.7	15.25	110	8
120 321 20 04	399	222	623	910	18.8	15.5	108.5	8.5
121 321 04 04	328	208	555	805	21.6	15.0	111	8
121 321 05 04	305	208	560	872	17.3	15.5	110	7.5
121 321 06 04	349	216	614	863	21.7	15.1	110	8.5
180 321 07 04	327	216	640	952	17.3	15.5	110	7.5
180 321 09 04	311	216	640	1005	14.8	16.0	109	7.5
180 321 10 04	334	216	640	932	18.45	15.5	110	8
180 321 12 04	317	222	640	1005	14.8	16.0	109	7.5
180 321 13 04	340	216	716	1028	17.3	15.75	110	8
180 321 14 04	345	216	744	1056	17.3	15.75	110	8
180 321 15 04	331	216	666	978	17.3	15.75	110	8
180 321 16 04	320	221	670	1035	14.8	16.0	109	7.5
180 321 17 04	324	221	694	1059	14.8	16.0	109	7.5
180 321 18 04	335	216	688	1000	17.3	15.75	110	8

**Note:** Tolerance for spring length L1, i. e. trim dimension at P normal is for all front springs  $\pm 2.5$  mm

### D. Color Code for Front Springs

Front spring Part No.	Color Code		
	white	red	blue
	Trim dimension measured at P normal in mm		
121 321 04 04 121 321 05 04	from 205.5—208	above 208—210.5	above 210.5—213
120 321 16 04 120 321 17 04 121 321 06 04 180 321 07 04 180 321 09 04 180 321 10 04 180 321 13 04 180 321 14 04 180 321 15 04 180 321 18 04	from 213.5—216	above 216—218.5	above 218.5—221
120 321 14 04 120 321 15 04	from 213—216	above 216—219	above 219—222
180 321 16 04 180 321 17 04	from 218.5—221	above 221—223.5	above 223.5—226
120 321 19 04 120 321 20 04 180 321 12 04	from 219.5—222	above 222—224.5	above 224.5—227

## E. Test Values of Rear Springs

Rear spring Part No.	Test values								
	left "L" right "R"	Free length of spring "L" mm	Trim dimension, i. e. spring length "L" under normal load P mm	Load P normal kg	Load P maximal kg	Spring rate per 100 kg of load mm	Wire gage "d" mm $\phi$	Mean coil diameter "D" mm	Number of coils
120 324 11 04	L R	283	182	648	976	15.55	16.5	130	5.25
120 324 15 04	L R	281.4	180.4	648	966	15.55	16.5	130	5.25
120 324 17 04	L R	265	183.5	734	1215	11.1	17.5	130	4.85
120 324 20 04	L R	259	187.5	883	1482	8.09	19.0	130	4.8
120 324 21 04	L R	270	189	798	1260	10.15	18.0	130	4.75
120 324 22 04	L R	259.5	182	926	1412	8.35	18.8	130	4.75
120 324 23 04	L R	270	188.5	734	1215	11.1	17.5	130	4.75
121 324 12 04	L	279	181.5	840	1168	11.62	18.0	135	4.96
121 324 13 04	R	277	182	864	1210	11.0	18.0	135	4.7
121 324 18 04	L	279	177	545	785	18.75	16.0	135	5.0
121 324 19 04	R	278	178	560	829	17.82	16.0	135	4.75
121 324 20 04	L	296	178.5	627	867	18.75	16.2	135	5.25
121 324 21 04	R	293.5	179	645	899	17.75	16.2	135	4.96

Rear spring Part No.									
	left "L" or right "R"	Free length of spring "L" mm	Trim dimension, i. e. spring length "L" under normal Load P mm	Load P normal kg	Load P maximal kg	Spring rate per 100 kg of load mm	Wire gage "d" mm $\phi$	Mean coil diameter "D" mm	Number of coils
121 324 22 04	L	281	190	697	1065	13.05	17.2	135	4.65
121 324 23 04	R	279	190.5	716	1108	12.38	17.2	135	4.4
121 324 24 04	L	264.5	190	915	1510	8.14	19.2	135	4.5
	R								
105 324 00 04	L	299.5	178.5	644	848	18.75	16.2	135	5.25
105 324 01 04	R	296	179	660	880	17.75	16.2	135	5.0
180 324 15 04	L	305	180	668	908	18.75	16.2	135	5.25
180 324 16 04	R	302.5	180.5	686	940	17.75	16.2	135	4.96
180 324 23 04	L	288	188.5	668	970	14.9	17.0	135	5.05
180 324 24 04	R	286	189	686	1005	14.1	17.0	135	4.8
180 324 26 04	L	294	194.5	668	970	14.9	17.0	135	5.05
180 324 27 04	R	292	195	686	1005	14.1	17.0	135	4.8
180 324 28 04	L	307	179	724	933	17.71	16.7	135	5.6
180 324 29 04	R	303	178	743	963	16.83	16.7	135	5.32

**Note:** Tolerance for spring length L1, i. e. trim dimension at P normal is for all rear springs  $\pm 8$  mm.

## F. Color Code for Rear Springs

Color code		Left and right spring
		Part No. 120 324 11 04
		Trim dimension measured at P normal in mm
white	1 line	from 174 — 176
	2 lines	above 176 — 178
	3 lines	above 178 — 180
red	1 line	above 180 — 182
	2 lines	above 182 — 184
blue	1 line	above 184 — 186
	2 lines	above 186 — 188
	3 lines	above 188 — 190

Color code		Left and right spring
		Part No. 120 324 15 04
		Trim dimension measured at P normal in mm
white	1 line	from 172.4 — 174.4
	2 lines	above 174.4 — 176.4
	3 lines	above 176.4 — 178.4
red	1 line	above 178.4 — 180.4
	2 lines	above 180.4 — 182.4
blue	1 line	above 182.4 — 184.4
	2 lines	above 184.4 — 186.4
	3 lines	above 186.4 — 188.4



Color code		Left and right spring
		Part No. 120 324 17 04
		Trim dimension measured at P normal in mm
white	1 line	from 175.5 — 177.5
	2 lines	above 177.5 — 179.5
	3 lines	above 179.5 — 181.5
red	1 line	above 181.5 — 183.5
	2 lines	above 183.5 — 185.5
blue	1 line	above 185.5 — 187.5
	2 lines	above 187.5 — 189.5
	3 lines	above 189.5 — 191.5

Color code		Left and right spring
		Part No. 120 324 20 04
		Trim dimension measured at P normal in mm
white	1 line	from 179.5 — 181.5
	2 lines	above 181.5 — 183.5
	3 lines	above 183.5 — 185.5
red	1 line	above 185.5 — 187.5
	2 lines	above 187.5 — 189.5
blue	1 line	above 189.5 — 191.5
	2 lines	above 191.5 — 193.5
	3 lines	above 193.5 — 195.5

Color code		Left and right spring
		Part No. 120 324 21 04
		Trim dimension measured at P normal in mm
white	1 line	from 181 — 183
	2 lines	above 183 — 185
	3 lines	above 185 — 187
red	1 line	above 187 — 189
	2 lines	above 189 — 191
blue	1 line	above 191 — 193
	2 lines	above 193 — 195
	3 lines	above 195 — 197

Color code		Left and right spring
		Part No. 120 324 22 04
		Trim dimension measured at P normal in mm
white	1 line	from 174 — 176
	2 lines	above 176 — 178
	3 lines	above 178 — 180
red	1 line	above 180 — 182
	2 lines	above 182 — 184
blue	1 line	above 184 — 186
	2 lines	above 186 — 188
	3 lines	above 188 — 190

Color code		Left and right spring
		Part No. 120 324 23 04
		Trim dimension measured at P normal in mm
white	1 line	from 180.5 — 182.5
	2 lines	above 182.5 — 184.5
	3 lines	above 184.5 — 186.5
red	1 line	above 186.5 — 188.5
	2 lines	above 188.5 — 190.5
blue	1 line	above 190.5 — 192.5
	2 lines	above 192.5 — 194.5
	3 lines	above 194.5 — 196.5

Color code		Left spring	Right spring
		Part No. 121 324 12 04	Part No. 121 324 13 04
		Trim dimension measured at P normal in mm	
white	1 line	from 173.5 — 175.5	from 174 — 176
	2 lines	above 175.5 — 177.5	above 176 — 178
	3 lines	above 177.5 — 179.5	above 178 — 180
red	1 line	above 179.5 — 181.5	above 180 — 182
	2 lines	above 181.5 — 183.5	above 182 — 184
blue	1 line	above 183.5 — 185.5	above 184 — 186
	2 lines	above 185.5 — 187.5	above 186 — 188
	3 lines	above 187.5 — 189.5	above 188 — 190

Color code		Left spring	Right spring
		Part No. 121 324 18 04	Part No. 121 324 19 04
		Trim dimension measured at P normal in mm	
white	1 line	from 169 — 171	from 170 — 172
	2 lines	above 171 — 173	above 172 — 174
	3 lines	above 173 — 175	above 174 — 176
red	1 line	above 175 — 177	above 176 — 178
	2 lines	above 177 — 179	above 178 — 180
blue	1 line	above 179 — 181	above 180 — 182
	2 lines	above 181 — 183	above 182 — 184
	3 lines	above 183 — 185	above 184 — 186

Color code		Left spring	Right spring
		Part No. 121 324 20 04 Part No. 105 324 00 04	Part No. 121 324 21 04 Part No. 105 324 01 04
		Trim dimension measured at P normal in mm	
white	1 line	from 170.5 — 172.5	from 171 — 173
	2 lines	above 172.5 — 174.5	above 173 — 175
	3 lines	above 174.5 — 176.5	above 175 — 177
red	1 line	above 176.5 — 178.5	above 177 — 179
	2 lines	above 178.5 — 180.5	above 179 — 181
blue	1 line	above 180.5 — 182.5	above 181 — 183
	2 lines	above 182.5 — 184.5	above 183 — 185
	3 lines	above 184.5 — 186.5	above 185 — 187

Color code		Left spring	Right spring
		Part No. 121 324 22 04	Part No. 121 324 23 04
		Trim dimension measured at P normal in mm	
white	1 line	from 182 — 184	from 182.5 — 184.5
	2 lines	above 184 — 186	above 184.5 — 186.5
	3 lines	above 186 — 188	above 186.5 — 188.5
red	1 line	above 188 — 190	above 188.5 — 190.5
	2 lines	above 190 — 192	above 190.5 — 192.5
blue	1 line	above 192 — 194	above 192.5 — 194.5
	2 lines	above 194 — 196	above 194.5 — 196.5
	3 lines	above 196 — 198	above 196.5 — 198.5

Color code		Left and right spring
		Part No. 121 324 24 04
		Trim dimension measured at P normal in mm
white	1 line	from 182 — 184
	2 lines	above 184 — 186
	3 lines	above 186 — 188
red	1 line	above 188 — 190
	2 lines	above 190 — 192
blue	1 line	above 192 — 194
	2 lines	above 194 — 196
	3 lines	above 196 — 198

Color code		Left spring	Right spring
		Part No. 180 324 15 04	Part No. 180 324 16 04
		Trim dimension measured at P normal in mm	
white	1 line	from 172 — 174	from 172.5 — 174.5
	2 lines	above 174 — 176	above 174.5 — 176.5
	3 lines	above 176 — 178	above 176.5 — 178.5
red	1 line	above 178 — 180	above 178.5 — 180.5
	2 lines	above 180 — 182	above 180.5 — 182.5
blue	1 line	above 182 — 184	de 182,5 a 184,5
	2 lines	above 184 — 186	above 184.5 — 186.5
	3 lines	above 186 — 188	above 186.5 — 188.5

Color code		Left spring	Right spring
		Part No. 180 324 23 04	Part No. 180 324 24 04
		Trim dimension measured at P normal in mm	
white	1 line	from 180.5 — 182.5	from 181 — 183
	2 lines	above 182.5 — 184.5	above 183 — 185
	3 lines	above 184.5 — 186.5	above 185 — 187
red	1 line	above 186.5 — 188.5	above 187 — 189
	2 lines	above 188.5 — 190.5	above 189 — 191
blue	1 line	above 190.5 — 192.5	above 191 — 193
	2 lines	above 192.5 — 194.5	above 193 — 195
	3 lines	above 194.5 — 196.5	above 195 — 197

Color code		Left spring	Right spring
		Part No. 180 324 26 04	Part No. 180 324 27 04
		Trim dimension measured at P normal in mm	
white	1 line	from 186.5 — 188.5	from 187 — 189
	2 lines	above 188.5 — 190.5	above 189 — 191
	3 lines	above 190.5 — 192.5	above 191 — 193
red	1 line	above 192.5 — 194.5	above 193 — 195
	2 lines	above 194.5 — 196.5	above 195 — 197
blue	1 line	above 196.5 — 198.5	above 197 — 199
	2 lines	above 198.5 — 200.5	above 199 — 201
	3 lines	above 200.5 — 202.5	above 201 — 203

Color code		Left spring	Right spring
		Part No. 180 324 28 04	Part No. 180 324 29 04
		Trim dimension measured at P normal in mm	
white	1 line	from 171 — 173	from 170 — 172
	2 lines	above 173 — 175	above 172 — 174
	3 lines	above 175 — 177	above 174 — 176
red	1 line	above 177 — 179	above 176 — 178
	2 lines	above 179 — 181	above 178 — 180
blue	1 line	above 181 — 183	above 180 — 182
	2 lines	above 183 — 185	above 182 — 184
	3 lines	above 185 — 187	above 184 — 186

### G. Test Values of Front Shock Absorbers

Part No.	Designation	Test values in kg at n = 100 rpm						External Diameter "D" mm	Length "L" Compressed mm
		Stroke 25 mm		Stroke 50 mm		Stroke 100 mm			
		Pull	Pressure	Pull	Pressure	Pull	Pressure		
120 323 00 00	F & S Sov 26 x 130	35	5	140	10	310	30	38.4	239
121 323 00 00	F & S Sov 26 x 130	35	5	140	10	310	30	38.4	239
121 323 01 00	Stabilus T 40 x 130	35	5	140	10	310	30	44.0	244.5
121 323 02 00	F & S Tov 36 x 130	40	5	160	10	340	20	55.0	242
121 323 03 00	F & S Tov 36 x 130	70	20	215	30	370	40	55.0	242
180 323 00 00	F & S Tov 36 x 130	65	8	230	15	330	30	55.0	242
180 323 01 00	F & S Tov 36 x 130	85	17	250	30	390	45	55.0	242
180 323 02 00	Stabilus T 40 x 130	65	8	230	15	330	30	44.0	244.5
180 323 03 00	Stabilus T 50 x 130	65	8	230	15	330	30	56.0	244.5
180 323 05 00	Bilstein Type 062	80	40	160	70	320	135	50.0	240

### H. Test Values of Rear Shock Absorbers

Part No.	Designation	Test values in kg at n = 100 rpm						External Diameter "D" mm	Length "L" Compressed mm
		Stroke 25 mm		Stroke 50 mm		Stroke 100 mm			
		Pull	Pressure	Pull	Pressure	Pull	Pressure		
000 326 55 00	F & S Sov 26 x 130	—	—	—	—	270	35	38.4	239
120 320 08 31	F & S Tov 30 x 120	150	35	285	40	350	45	46.0	236.5
120 320 11 31	Stabilus T 40 x 120	—	—	—	—	270	35	44.0	237
121 326 00 00	F & S Tov 30 x 140	90	20	200	25	370	35	46.0	251
121 326 01 00	Stabilus T 40 x 140	80	20	220	30	380	43	44.0	254
121 326 02 00	F & S Tov 36 x 130	80	10	200	20	340	40	55.0	242
121 326 03 00	F & S Tov 36 x 130	80	20	220	30	380	43	55.0	242
121 326 04 00	F & S Tov 36 x 130	80	18	200	23	400	40	55.0	242
180 326 00 00	F & S Tov 36 x 140	80	20	220	30	420	43	55.0	252
180 326 01 00	F & S Tov 36 x 140	120	35	255	52	395	75	55.0	252
180 326 02 00	Stabilus T 50 x 130	80	20	220	30	380	43	55.0	254.5
180 326 04 00	Bilstein Type 063	65	30	175	60	400	110	50.0	247