

Sheet1

Car	Front lbs/ins	Front FL	Rear lbs/ins	Rear FL	Notes
OEM S2	100		72		46/54 Distribution, Front Wheel Rate due to spring alone 37lbs ARB adds 33lbs to get 70lbs wheel rates both F & R FRONT 17 coils, 0.35" wire, Free Length 12.75, fitted 7.75, preload 500lbs REAR 19.5 coils, 0.33" wire, Free Length 16.2", fitted 10.4", preload 417lbs
OEM TC	116		75		42/58 Distribution FRONT 13.5 coils, 0.4" wire, Free Length 12.5", fitted 7.9" preload 537lbs REAR 19.6 coils, 0.325" wire, Free Length 16.75", fitted 9.86", preload 516lbs
Unknown	140	9"	125	12"	
S2	140		115		
S2	150		120		Phil Eithier
Unknown	150	10"	125	12"	
S2	175		140		Jay Mitchell Autocross
TCS	180	9"	??		
S2 ?	225		150		7/8" front ARB, 5/8" rear ARB
S2	240		200		JM Race. Gives 122/195 WR. Wide rear tyres else induced oversteer ?
S2 (Banks)	250		100		Richard Banks Front 0.38" wire, 2.6" OD, 11 coils. Rear 0.325" wire, 2.58" OD, 14 coils
S2	275		115		Ride Frequency 2hz with TC 11/16" ARB, car weight 1435lbs
S2	500		200		
Banks Europa	750		??		Banks racing car

Phil Ethier S2 data

Data from Phil Ethier, complete file with more info in Yahoo group files

## Europa Springs (1970 S2 Type 65) c/o Phil Ethier

<i>f/r</i>	Type	coils	Rate lb/in	free length	loaded length	force at rest	Grnd Clear swaybar mt	shock lngth eye-to-eye	Lowering amount	change in loaded lngth
F	In car 12-93				8.15	500	6.2	11.5	0	0
F	book stock	17	100	12.75	7.75	500	5.57	11.1	0.63	0.4
F	bean replace.		115	12	7.652	500	5.416	11.002	0.784	0.498
F	stock -2 coils	15	113.3	11.25	6.837	500	4.132	10.187	2.068	1.313
F	Eibach 10x150		150	10	6.667	500	3.864	10.017	2.336	1.483
F	bean race		140	10	6.429	500	3.489	9.779	2.711	1.721
F	Spyder		100	11.125	6.125	500	3.011	9.475	3.189	2.025
F	Argo shortened TC		155.6	9	5.787	500	2.478	9.137	3.722	2.363
F	Eibach 9x150		150	9	5.667	500	2.289	9.017	3.911	2.483

<i>f/r</i>	Type	coils	Rate lb/in	free length	loaded length	force at rest	Grnd Clear trans brack	shock lngth eye-to-eye	Lowering amount	change in loaded lngth
R	In car 12-93				12	417.6	7	15.75	0	0
R	bean replace.		75	16.75	11.182	417.6	6.182	14.932	0.818	0.818
R	Eibach		130	14	10.788	417.6	5.788	14.538	1.212	1.212
R	Eibach		125	14	10.659	417.6	5.659	14.409	1.341	1.341
R	Argo TC		120	14	10.52	417.6	5.52	14.27	1.48	1.48
R	Eibach		120	14	10.52	417.6	5.52	14.27	1.48	1.48
R	book stock	19.5	72	16.2	10.4	417.6	5.4	14.15	1.6	1.6
R	bean race		115	14	10.369	417.6	5.369	14.119	1.631	1.631
R	Eibach		110	14	10.204	417.6	5.204	13.954	1.796	1.796
R	stock -2 coils	17.5	80.23	14.54	9.335	417.6	4.335	13.085	2.665	2.665