

Component	details	128 sedan	128 sedan early, estate	128 3P 1.3 '76 Austral. version	X1/9 '74-'80	127 '75	Regata 100S Weekend	Regatta 100S (85S seems the same)	
Front coil springs	Free length	428 mm		~365 mm (measured)	266mm (calculated) ^o			~420mm	
	No of coils	9	9	7 2/3	6 2/3	9	6 large diameter with offset at bottom +1 on top approx. half diameter	6 large diameter with offset at bottom +1 on top approx. half diameter	
Front shock absorbers	Coil wire diameter								
	Length under kg	280 ± 10 kg Class "A" Yellow daub >240 mm Class "B" Green daub =<240mm			215 kg Class "A"(yellow) >170 Class "B"(green) =<170mm	250 ± 10kg kg Class "A"(yellow) >235 Class "B"(green) =<235mm			
	Minimum load to achieve above length	255 kg			200kg	230kg			
	Calculated spring rate	0.67mm/kg			0.44 mm/kg	0.772 mm/kg			
	Pressure cylinder bore	27 mm	27 mm		27 mm	27mm			
	Length(measured between the upper face of dust shield and the upper hole center of shock absorber to knuckle mounting screw)	Extend (abutting begins)			~465 mm (measured on RIV shocks)		436mm		
		Retract			~325mm (measured on RIV shocks)		293.5 mm		
	Length from bottom of shock absorber to approx. middle of spring support				~235mm (measured on RIV shocks)				~230mm
	Length approx. middle of spring support to shock cap				~143mm (measured on RIV shocks)				~155mm
	Piston extension from cap when fully in				~2mm (measured on RIV shocks)				~30mm
Piston bolt extension including thread				~44mm (measured on RIV shocks)				52mm	
Stroke	145 mm	148 ± 4mm						~145mm	
Settings	Compression	3 - 6.5 mm*	3 - 5 mm			(abutting begins) 142.5mm			
	Rebound	12.5 - 18.5 mm*	11.0 - 15.0 mm			***RIV 2.5-5mm BOGE 2-5mm			
Fluid capacity	0.225 l	0.225 l				***RIV 13-18mm BOGE 11-17mm			

^o assuming the same wire coil used as for the 128 sedan (also the same heat treatment) which has the coil spacing ~55 mm at no load (actually measured on 7 2/3 coils from 3P)
 - Regatta strut mounting cap bolts spacing; radius 55mm, bolts spacing then 95mm (3 of them)

Component	details	128 sedan	128 sedan early, estate	128 3P 1.3 '76 Austral. version	X1/9 '74-'80	127 '75	Regata 100s Weekend	Regatta 85S auto
Rear coil/leaves springs	No of coils/leaves	2	2, estate 3	2	7 Free length 325 mm(calculated)°	2	3	2
	Length under load	Camber under 330 kg = 16+/-3 mm	Sedan same as later, estate: Camber under 390 kg = 13 ± 3 mm	Approx. 50mm less camber with no load compared to my '74 sedan	255 kg Class "A"(yellow) >200 mm Class "B"(green) =<200 mm	Camber under 347 kg = 6 ± 3 mm		
	Minimum load to achieve this length				235 kg			
Rear shock absorbers	Deflection rate:	38 ± 3mm/100kg	31.8 ± 2.5mm/100kg		0.467 mm/kg	28.3 ± 2.3mm/100kg		
	Pressure cylinder bore	27 mm	27 mm	27 mm		27mm		
	Stroke (abutting begins)	202.5 ± 2 mm	202.5 ± 2 mm			191 mm		
	Compression	3 - 6 mm**	3 - 6 mm**			**RIV 2.5-5mm BOGE 2-5mm		
	Rebound	6 - 9.5 mm**	6 - 9.5 mm**			**RIV 8-13 mm BOGE 8-14 mm		
	Length from bottom of shock absorber to screws mounting support			~37 mm			~25 mm	~30 mm
	Length from bottom of shock to its cap			~400 mm			~400 mm	~410 mm
	Piston extension from cap when fully in			?				
	Piston bolt extension including thread							
	Fluid capacity	0.250 l	0.250 l					
Length(measured between the upper face of dust shield and the upper hole center of shock absorber to spindle mounting screw)	Extend (abutting begins)			(286mm)?		476	(Whole body length 605mm)	(Whole body length 615mm)
	Retract			(191mm)?		285		

* Readings of tester Ap. 5023 in following conditions: arm 250; stroke 100; B dial position 112 deg.

** Readings of tester Ap. 5023 in following conditions: arm 250; stroke 100; A dial position 120 deg.(127-lower hole)

*** Readings of tester Ap. 5023 in following conditions: arm 250; stroke 100; A dial position 105 deg., lower hole

Less than 10mm difference between the length of the front shock absorbers (bottom to cap), main shock cylinder and piston extension from cap (when fully in) and stroke measured on three shocks:

1. RIV (Way Assauto) found on my sedan when bought , nearly new (blue color) sealed units, estimated made in end of '90th -ies
2. RIV (Way Assauto) '71 128 sedan 4D (bought for parts), dismantable

3. RIV (Way Assauto) 1.3 3P (not know which year but imported '76-'78 only
4. BOGE from '76 3P

Lancia Delta 1498 cc:

"The Lancia Delta is rather more than just a well dressed version of the Fiat Ritmo/Strada. The two cars are very similar in concept, and they share the same basic ohc alloy-headed engines and drivetrains: otherwise they have less in common that might have been expected. Like Beta and Gamma, the Delta has independent MacPherson strut type suspension at each corner, with very wide based lower wishbones at the front, and centre-pivot transverse links behind, each located longitudinally by a trailing arm. All the suspension mounts, including those for the front and rear anti-roll bars, are heavily rubber bushed to isolate noise and vibration from the body.Steering is light but to low (3:8) geared, too dead Mid-corner there is plenty of feel - the higher the *g* force the stronger it is - but self centering is on the light lock, and lifeless enough over the last few degrees to call for conscious unwinding."

Fiat Strada 70, UK, '83 facelift:

"The suspension has been refined, too, with re-rated shock absorbers all around, and variable-rate front coil springs, which among other things, smooth low speed ride. That, and changes to the steering rack, have greatly reduced reaction through the wheel, even when lots of power is applied on tight bends. The steering itself is light and more accurate and responsive than its four turns lock-to-lock would suggest."

Regata 85S, 100S(incl weekend) strut top mountig screws (3 of them) at radius 5.5 mm

S.A.I. Oil used in hydraulic shock absorbers, international designation - Mineral antifreeze oil, containing greasing additives

Regata 85S and 100S Weekend,

Control arm length -body screw to swaybar 240mm, to knuckle 310 mm

Swaybar length between nuts at control arm 112 cm

Fiat 131

1.6

Front shock absorber: length - from bottom to spring support ~23.5 cm + from spring support to body top ~ 14.2 cm = whole body length 37.7

Spring extended length at the shock 35.5 cm

Spring 8 1/3 coils, freee length (not sure if measeured on the right sample) 45 cm

2.0

Strut whole lenth 55cm, 19 cm from bottom screw to spring support