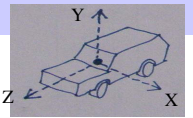


Alfa Romeo GTV6 2,5

1980 - 1987



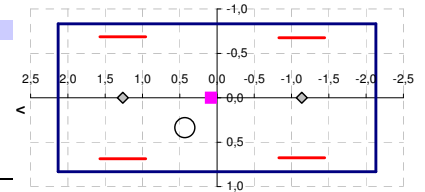
DIMENSIONS

4 Wheels	Length	4,260m	Wheelbase	2,400m
Ground clearance	Width	1,664m	Front track	1,373m
0,144m	Body height	1,218m	Rear track	1,352m

NullPoint (0,0,0)

In the center of body

UPPER VIEW [m]



WEIGHTS

Body	1.165kg			
Engine	1.165kg			
Front wheels	60kg	+		
Rear wheels	60kg	120kg		
DISTRIBUTION front	51%	1.285kg		
rear	49%			

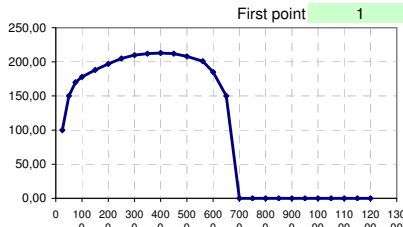
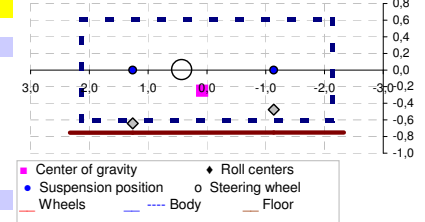
SPRUNG WEIGHT

UNSPRUNG WEIGHT

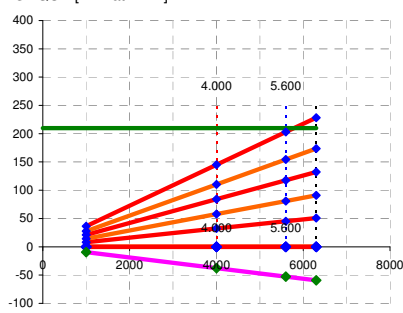
TOTAL MASS

Steering wheel		X pitch	Y yaw	Z roll
Center of gravity [m]				
Rotational inertias [kg.m2]				
		1.750	-0,25	0,08
		1.890	(1.850)	360
		(1.850)	(1.850)	(111)

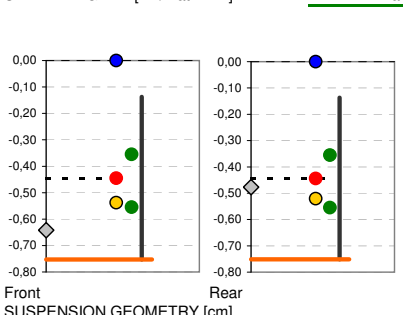
LATERAL VIEW [m]



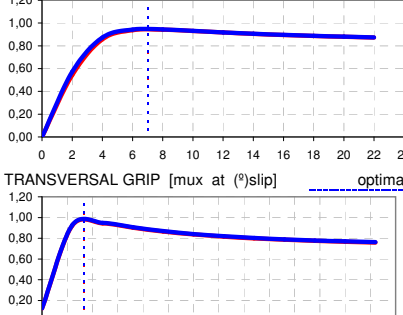
TORQUE [N.m at RPM]



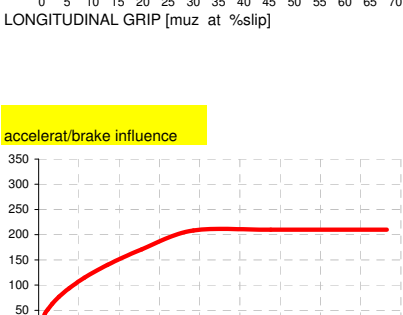
SPEED BY GEAR [km/h at RPM]



Front SUSPENSION GEOMETRY [cm]



LONGITUDINAL GRIP [muzz at %slip]



SPEED AT CURVE [km/h at R curve,m]

With Az = 0

COMMENTS BY MODELERS

2492 cm3 V 60° six, 118 kW @ 5600 rpm, 213 Nm @ 4000 rpm,

Model - sin5k4, Performance - Cosmo°. Sounds - FSR. Dials - Blo0m. Adaptation - Damian A.

ENGINE

Maximum power	160 CV	5.600rpm	max	
Maximum torque	213 N.m	4.000rpm	(119kW)	
		1.000rpm	(22mkp)	
CONSUMPTION		0,0000200 g/J		
Fuel tank	50 L Gasoline			

AERODYNAMIC

Frontal area	2,03m2			
COEFFICIENTS				
	width	longitudinal [Z]	Cx 0,39	vertical [Y]
1	1,00	1,00	-19,70	1,00
2				
3				
4				

TRANSMISSION

Drive:	rear	gears	5
Gearbox:	manual	differential ratio	4,10
HELP TO DRIVE:			
	without ABS		
	without ASD		
		6.300rpm	
		At max RPM	

BRAKES

front	1.283 N.m	8.345 N	70%	Handbrake:
rear	557 N.m	3.623 N	30%	To wheels rear
		11.967 N		

STEERING

Steer lock	3,5	between locks		To front wheels
Turning diameter	8,42	m		Ackerman
STEERING WHEEL POSITION				
		X	Y	Z
		0,34	0,01	0,43

SUSPENSION

LENGTH				
[m]	hung	min	max	kerb weight
Front	0,538	0,355	0,555	266
Rear	0,521	0,355	0,555	257
STIFFNESS [N/m]				
	Wheels	Susp.	Total	antiroll
Front	175.000	28.051	24.176	19.500
Rear	160.000	32.716	27.162	6.000

ROLL CENTER

Front		X	Y	Z
Rear				

WHEELS

[m]	Radius	Perimeter	SR [-]	SA [rad]
Front	0,308	1,932	0,083	0,123
Rear	0,308	1,932	0,083	0,123
media	0,308	1,932		

SUSPENSION POSITION

Wheel		X	Y	Z

TEORICAL PERFORMANCE

Speed	210 km/h	By power	(130mph)
	228 km/h	By transmission	(142mph)
Acceleration	6,65 seg	from 0 to 100 km/h	
	17,47 seg	from 0 to 400 m	
	28,84 seg	from 0 to 1000 m	
Brake	14,9m	from 0 to 60 km/h	
	81,2m	from 0 to 140 km/h	
Adelantament	2,15 seg	from 20 a 50 km/h in 2ª	
	6,59 seg	from 60 to 120 km/h in 3ª	
	9,10 seg	from 80 to 120 km/h in 5ª	
Consumption		1,4 L	at 90km/h
100 km		2,0 L	at 120km/h
		2.449	Km at 120km/h

TRANSVERSAL DYNAMIC

V = 210 km/h	1,38G	Longitudinal	0,87G

Amáx	0,65G (372%)	
Fmáx	-0,78G (82%)	

Amáx	0,68G (86%)	
Fmáx	-0,83G (87%)	

AERODYNAMIC CHANGES

V [km/h]	Fy [kg]	+/- ΔAx	- ΔAz
100	-16	-1%	-0,03G
150	-37	-3%	-0,07G
200	-65	-5%	-0,12G
250	-102	-8%	-0,19G
300	-146	-11%	-0,27G

GEAR RATIOS

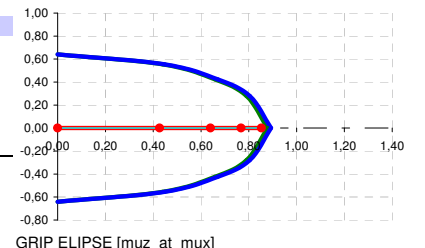
1ª	3,50	51	0,79G
2ª	1,96	91	0,44G
3ª	1,35	132	0,30G
4ª	1,03	174	0,23G
5ª	0,78	228	0,18G
6ª			
7ª			
8ª			
9ª			
MA	-3,00	-59	-0,68G

WHEELS ANGLE

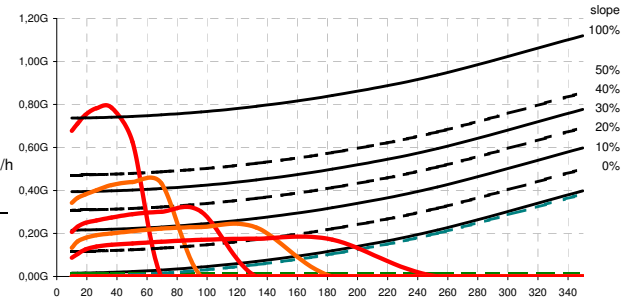
% out	% in	
1,25	1,39	
2,50	2,82	
5,00	5,79	
10,00	12,19	

RESUME

Vertical stiffness	k 10.268 N/m
Frecuencia	w 0,47 Hz
Wheel vertical stiffness	k 67.000 N/m
Frecuencia	w 3,76 Hz
Pitch stiffness	k 10.268 N/m
Roll stiffness	k 15.368 N/m
Damping 18%	
critical	6.917 kg/ m/s
real	1.228 kg/ m/s



GRIP ELIPSE [muzz at mux]



MARCH DIAGRAM [Az m/s2 at V km/h, and climbing slope %]