

## ® Automobili Lamborghini S.p.A.

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### Wheels, Brakes

The brake system is hydraulically controlled with brake booster and ABS. The system components are:

- four disk brakes;
- hydraulic pump with brake booster;
- ABS electro-hydraulic control unit;
- brake liquid reservoir with "low level" indicator;
- vacuum tank.

#### Brake system layout (Fig.1)

A.	Brake pump with brake booster
B.	Brake and clutch fluid reservoir
C.	ABS electro-hydraulic control unit
D.	Vacuum tank
E.	Rear brake calipers
F.	Front brake calipers
G.	Wheel speed sensors (pick-up)

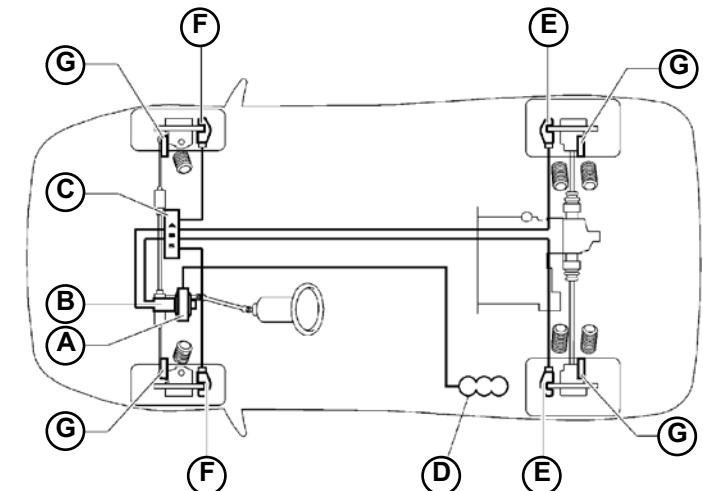


Fig.1

The electro-hydraulic control unit monitors brake fluid pressure on each wheel. The control unit corrects the braking action detected by the pick-up sensors according to the speed of each wheel.

To ensure the quality of the signal the distance between the pick-up sensor and the phonic wheel must be within 0.9  $\pm$  1.0 mm.

The electro-hydraulic control unit performs braking corrections by means of 4 ISO valves and 4 DUMP valves. When an ISO valve is closed, the related caliper is disconnected from the hydraulic pump. The DUMP valve discharges the hydraulic circuit pressure from the related brake caliper.

If the ABS warning light on the dashboard turns on and the buzzer activates during normal driving, then the ABS control unit has detected a fault. When the warning light is on, the ABS system is inhibited, i.e. the brake system operates normally but the electronic braking control is deactivated.



Fig.2

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Brake disks ( <i>Carbon Ceramic</i> )	Front	Rear
Diameter	380	380
Nominal thickness	38	38
Minimum allowed thickness after grinding	32	30
Parallelism tolerance of the two disk faces	0.020	
Max. surface roughness	RK 4,0 RpK 2,0 max	

Brembo brake calipers	6 wheel cylinders	6 wheel cylinders
Wheel cylinder bore	32 / 36 / 38 mm	32 / 36 / 38 mm

Brake pads <i>Pagid type</i>	Lining	HP 1000/1
Thickness when new ( <i>Carbon Ceramic</i> )	17.75	17.75
Minimum allowed thickness ( <i>Carbon Ceramic</i> )	7	7

Brake booster	
Type	vacuum
Wheel cylinder bore	246 mm

Pump	
Type	Tandem
Wheel cylinder bore	26.99 mm
Front wheel cylinder stroke	18 + 18


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**Parking brake**

Type	disk brake on rear wheels Mechanically-operated by hand lever
Caliper cylinder bore	36
Pads	MD 558
Thickness when new	9
Minimum thickness allowed	4.5

**ABS System**

Type	TRW EBC 430-EHCU ABS UNIT
Channels	Four

**Aluminium alloy wheels**

Front	8,5" x 18"
Rear	13" x 18"

**PIRELLI tyres with radial structure, tubeless, asymmetrical**

Front	P Zero 245/35 ZR 18 "ROSSO" or "CORSA"
Rear	P Zero 335/30 ZR 18 "ROSSO" or "CORSA"

**PIRELLI Winter 240 Sottozero tyres**

Front	245/35 V 18
Rear	335/30 V 18
Max speed	240 Km/h

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**Standing pressure**

Front	2.4 bar
Rear	2.4 bar

**Running pressure, speed >290 Km/h**

Front	2.8 bar
Rear	2.8 bar