

# TECHNICAL SPECIFICATIONS

*The following pages give the various specifications of the vehicle.*

*These pages will probably represent the main reference point in this booklet for the "experts and enthusiasts".*

*This section should be consulted in order to identify the main characteristics of your vehicle referred to in the previous chapters.*

IDENTIFICATION DATA.....	page 234
ENGINE CODES-BODY VERSIONS .....	235
DIMENSIONS .....	236
ENGINE.....	237
SERVICING.....	238
ENGINE OIL CONSUMPTION .....	238
LUGGAGE COMPARTMENT .....	239
WEIGHTS.....	239
FUEL SUPPLY - IGNITION .....	240
PERFORMANCE .....	241
FUEL CONSUMPTION .....	242
CO <sub>2</sub> EMISSION AT THE EXHAUST .....	243
BRAKES .....	243
STEERING.....	244
TRANSMISSION.....	244
SPECIFICATIONS OF FLUIDS AND LUBRICANTS .....	245
RIM AND TYRES .....	247
TYRE INFLATION PRESSURE .....	249
RADIO FREQUENCY REMOTE CONTROL: MINISTERIAL HOMOLOGATIONS .....	253

## IDENTIFICATION DATA

The identification data should be recorded. The identification data is carried on labels in the following positions (**fig. 1**):

- 1 - Identification label
- 2 - Body label
- 3 - Bodywork paint identification label
- 4 - Engine label.

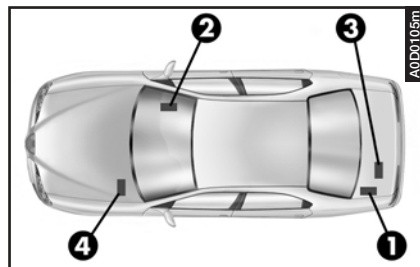


fig. 1

## BODY LABEL

The body label carrying the following information is located in front of the right front seat concealed by the lid (**A-fig. 2**), it is printed with the body identification (**fig. 3**) including:

- Type of vehicle
- Manufacturer's serial number (chassis number).

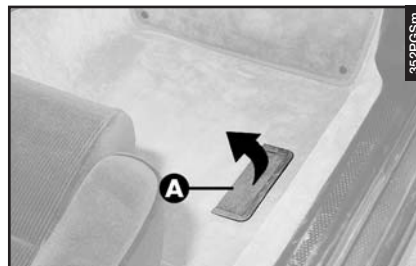


fig. 2



fig. 3

## ENGINE LABELS

On the rear left-hand side, gearbox side.

## BODYWORK PAINT IDENTIFICATION LABEL (fig. 4)

This is applied to the inner part of the luggage compartment and carries the following data:

- A - Paint manufacturer
- B - Name of colour
- C - Colour code
- D - Colour code for touching up and re-spraying.

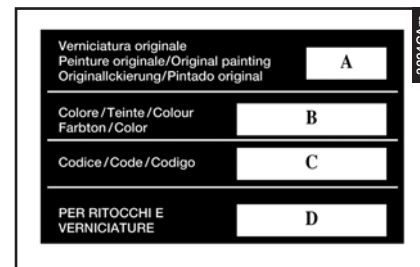


fig. 4

### IDENTIFICATION LABEL

This is located in the left-hand side of the boot (next to the battery) (**fig. 5**).

It carries the following identification data:

**A** - Space for details of national homologation

**B** - Space for punching the consecutive chassis number

**C** - Space available for maximum weights authorised by various national laws

**D** - Space for version and any supplementary indications to those specified

**E** - Space for smoke index (2.4 JTD versions only)

**F** - Space for punching manufacturer's name.

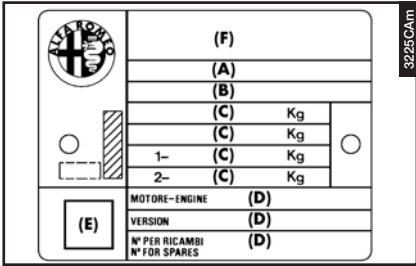


fig. 5

### ENGINE AND BODY VERSION CODES

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Engine Code	AR 36301	AR 36201	AR 36101	936A000	841C000	841G000 841M000 (*)	841H000 841N000 (*)
Body Code	936A3B00 14C	936A2100 13C	936A1101 12C	936AXB00 17	936AXA00 16C	936AXC00 18 936AXE00 20 (*)	936AXD01 19 936AXF01 21 (*)

(\*) For specific markets

# DIMENSIONS

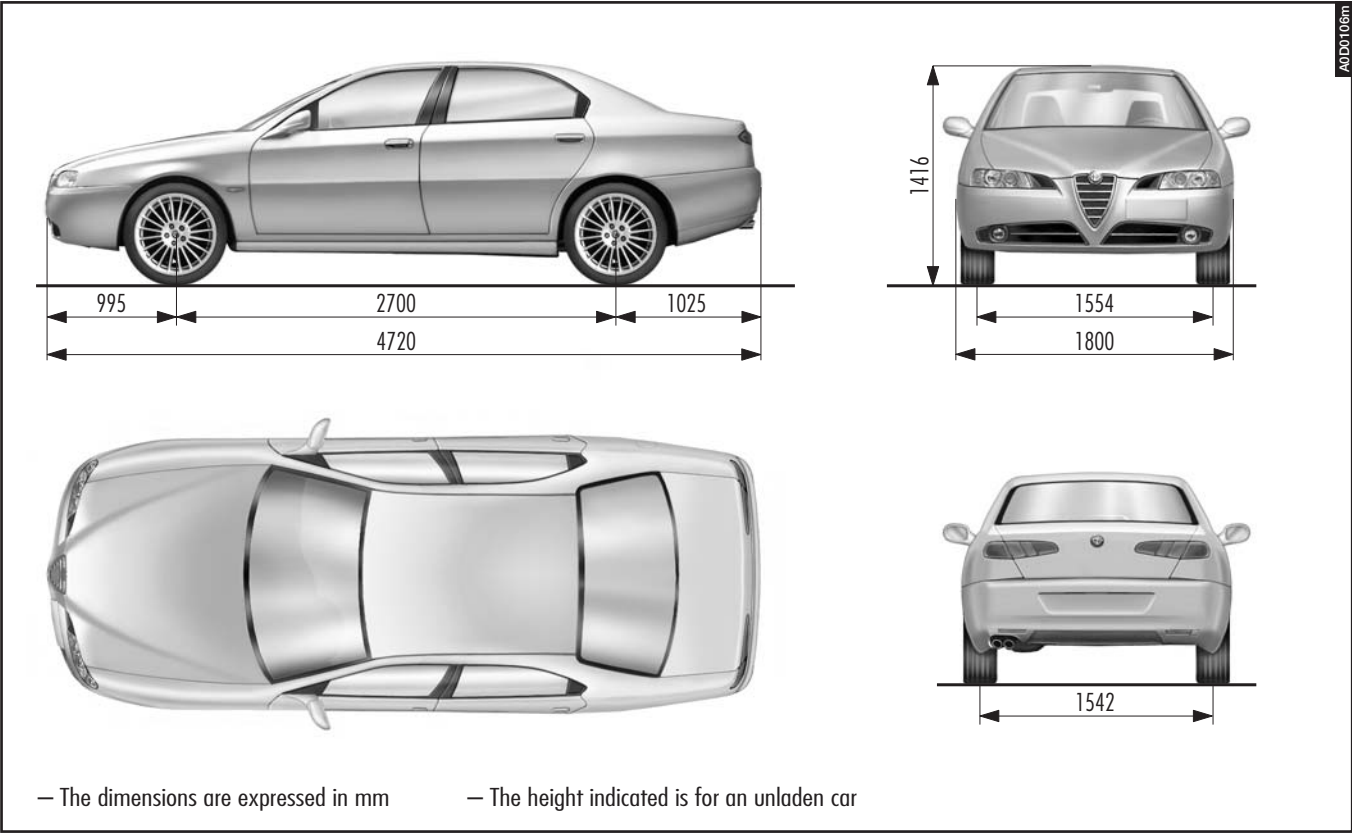


fig. 6

## ENGINE

		2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Position		Front transversal	Front transversal	Front transversal	Front transversal	Front transversal	Front transversal	Front transversal
Number and arrangement of cylinders		4 in line	6 in 60°V	6 in 60°V	6 in 60°V	5 in line	5 in line	5 in line
Cycle		Otto	Otto	Otto	Otto	Diesel	Diesel	Diesel
Bore		83 mm	88 mm	93 mm	93 mm	82 mm	82 mm	82 mm
Stroke		91 mm	68.3 mm	72.6 mm	78 mm	90.4 mm	90.4 mm	90.4 mm
Total cubic capacity		1970 cm <sup>3</sup>	2492 cm <sup>3</sup>	2959 cm <sup>3</sup>	3179 cm <sup>3</sup>	2387 cm <sup>3</sup>	2387 cm <sup>3</sup>	2387 cm <sup>3</sup>
Maximum horse power	kW CEE	110	138	162	176.5	110	129	129
	CV CEE	150	188	220	240	150	175	175
	rpm	6300	6300	6300	6200	4000	4000	4000
Max torque	Nm CEE	181	221	265	289	305	385	330
	kgm CEE	18.5	22.5	27.0	29.4	31.1	39.2	33.6
	rpm	3800	5000	5000	4800	1800	2000	1750

## SERVICING

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Type of fuel	Four star unleaded petrol with an octane number (R.O.N.) above 95				Diesel fuel (European Specification EN590)		
Capacity of fuel tank	69 litres	69 litres	69 litres	69 litres	69 litres	69 litres	69 litres
Reserve of	9 litres	9 litres	9 litres	9 litres	9 litres	9 litres	9 litres
Engine oil (quantity for periodical change, including the oil filter change)	4.40 litres	5.90 litres	5.90 litres	5.90 litres	5.50 litres	5.0 litres	5.0 litres
Gearbox/differential oil (except versions with electronic automatic gearbox)	1.6 litres	1.6 litres	—	2.0 litres	1.7 litres	1.45 litres	—
Capacity of engine cooling circuit	7.9 litres	10.3 litres	10.3 litres	10.3 litres	9.1 litres	9.1 litres	9.1 litres
Windscreen washer fluid reservoir capacity	7 litres	7 litres	7 litres	7 litres	7 litres	7 litres	7 litres

## ENGINE OIL CONSUMPTION

Max. engine oil consumption is usually 400 grams every 1000 km.

During the initial period of use of the vehicle the engine is settling, therefore engine oil consumption may be considered stabilised only after the first 5,000 - 6,000 km.

**IMPORTANT** Consumption depends on how the car is driven and on the conditions of use.

## LUGGAGE COMPARTMENT

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Capacity (dm <sup>3</sup> )	490	490	490	490	490	490	490

## WEIGHTS

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Kerb weight	1420 kg	1490 kg	1550 kg	1540 kg	1510 kg	1540 kg	1580 kg
Max. permitted weight (*)	1930 kg	2000 kg	2060 kg	2050 kg	2020 kg	2050 kg	2090 kg
Payload including driver (**)	510 kg	510 kg	510 kg	510 kg	510 kg	510 kg	510 kg
Towable weight	1500 kg	1500 kg	1500 kg	1500 kg	1500 kg	1500 kg	1500 kg
Max. load on ball	60 kg	60 kg	60 kg	60 kg	60 kg	60 kg	60 kg

(\*) Loads not to be exceeded. It is the owner's responsibility to place loads in the boot and/or on the loading surface within the maximum permissible weight limits.

(\*\*) With special fittings (sunroof, trailer towing device, etc.) the unloaded weight increases, thereby reducing the useful capacity with regard to maximum permissible loads.

## FUEL SUPPLY AND IGNITION

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Supply	MPI Bosch Motronic M1.5.5 electronic injection and ignition with knock selective control	MPI Bosch Motronic ME2.1 electronic injection and ignition with knock selective control	MPI Bosch Motronic ME2.1 electronic injection and ignition with knock selective control	MPI Bosch Motronic ME7 electronic injection and ignition with knock selective control	Direct injection with variable geometry turbo supercharger and intercooler Bosch EDC 15 electronic diesel control	Direct injection with variable geometry turbosupercharger and intercooler Bosch EDC 16 electronic diesel control	Direct injection with variable geometry turbosupercharger and intercooler Bosch EDC 16 electronic diesel control
Spark plugs	NGK BKR6EKPA + NGK PMR7A (*)	NGK PFR6B	NGK PFR6B	NGK RPFR6B	—	—	—
Replace every	100,000 km	100,000 km	100,000 km	100,000 km	—	—	—
Firing order	1-3-4-2	1-4-2-5-3-6	1-4-2-5-3-6	1-4-2-5-3-6	—	—	—
Injection order	—	—	—	—	1-2-4-5-3	1-2-4-5-3	1-2-4-5-3

(\*) There are two different spark plugs, one of each type, per cylinder.



### WARNING

**Alterations or repairs to the supply system not carried out correctly or without taking account of the technical specifications of the system, may cause abnormal functioning with the risk of fire.**



PERFORMANCE

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Maximum speed	211 km/h	225 km/h	236 km/h	245 km/h	210 km/h	222 km/h	218 km/h
Acceleration from 0-100 km/h	9.8 s	8.4 s	8.6 s	7.4 s	9.9 s	8.9 s	8.9 s
kilometre from stationary	30.8 s	28.6 s	28.5 s	27.5 s	31.2 s	29.0 s	30.0 s

## FUEL CONSUMPTION

The fuel consumption values shown in the following tables were established during homologation tests prescribed in specific European Directives.

The test conditions adopted include the following:

- **an urban cycle:** this includes cold starting followed by simulation of a mixed urban route;
- **an extraurban cycle:** this includes frequent accelerating in all gears, simulating normal extraurban use of the vehicle; the speed varies between 0 and 120 kph;
- **combined consumption:** this is calculated by considering a route consisting of about 37% urban cycle and 63% extraurban cycle.

**IMPORTANT** The type of route, traffic conditions, weather conditions, driving style, conditions of the vehicle, trim level/ equipment/ accessories, vehicle load, presence of a roof rack, other items that negatively affect the aerodynamics of the vehicle or wind resistance may lead to different fuel consumption levels than those measured by the above-mentioned procedures (see “Economy and environment-friendly driving” paragraph in the “Getting the best out of your car” chapter).

### CONSUMPTION ACCORDING TO EEC STANDARD 1999/100 (litres x 100 km)

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
On urban route	13.8	17.2	19.4	18.3	9.7	9.9	12.1
On extraurban route	7.3	8.8	9.3	9.1	5.8	6.1	6.9
On mixed route	9.7	11.9	13.0	12.5	7.2	7.5	8.9

# CO<sub>2</sub> EMISSION AT THE EXHAUST

The CO<sub>2</sub> emission levels shown in the following tables are measured on a mixed cycle.

## CO<sub>2</sub> EMISSION ACCORDING TO EEC STANDARD 1999/100

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Value (g/km)	230	284	310	297	192	198	235

## BRAKES

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Service brakes							
front	Self-ventilating disk	Self-ventilating disk	Self-ventilating disk	Self-ventilating disk	Self-ventilating disk	Self-ventilating disk	Self-ventilating disk
rear	Disk	Disk	Disk	Disk	Disk	Disk	Disk
Wheel anti-lock system (ABS) with electronic braking distribution Servo-brake. Brake pad wear indicator. Gasket of ecological type.							
Handbrake	Controlled by hand lever operating on rear brakes						

## STEERING

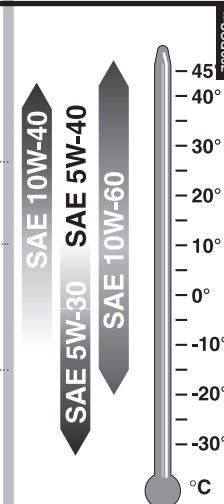
	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Type	Rack and pinion Hydraulic power steering with liquid reservoir in engine compartment						
Turning radius (between pavements)	11.6 m	11.6 m	11.6 m	11.6 m	11.6 m	11.6 m	11.6 m

## TRANSMISSION

	2.0 T.SPARK	2.5 V6 24V	3.0 V6 24V (Sportronic)	3.2 V6 24V	JTD	JTD 20V Multijet	JTD 20V Multijet (Sportronic)
Gearbox	Six forward gears plus reverse all synchronised	Six forward gears plus reverse all synchronised	Automatic 4-gear transmission plus reverse	Six forward gears plus reverse all synchronised	Six forward gears plus reverse all synchronised	Six forward gears plus reverse all synchronised	Automatic gearbox, 5 forward gears plus reverse
Clutch	Dry single disk with hydraulic operation	Dry single disk with hydraulic operation	—	Dry single disk with hydraulic operation	Dry single disk with hydraulic operation	Dry single disk with hydraulic operation	—
Drive	Front	Front	Front	Front	Front	Front	Front

# SPECIFICATIONS OF LUBRICANTS AND FLUIDS

## USABLE PRODUCTS AND THEIR SPECIFICATIONS

Use	Quality specifications of lubricants and fluids for correct running of the vehicle	Recommended fluids and lubricants	Applications
Lubricants for petrol engines <b>2.0 T.SPARK</b>	Synthetic oil, SAE 10W-60	<b>SELENIA RACING</b>	
Lubricants for petrol engines (*) <b>2.5 V6 24V,</b> <b>3.0 V6 24V</b> and <b>3.2 V6 24V</b>	Synthetic based oil, SAE 10W-40, exceeding ACEA A3, API SL specifications.	<b>SELENIA 20K FOR ALFA ROMEO</b>	
	Synthetic based oil, SAE 5W-30, exceeding API SL, ACEA A1-A5, FIAT 9.55535-M1 specifications. <b>Recommended for temperatures below -20 °C.</b>	<b>SELENIA PERFORMER MULTIPOWER</b>	
Lubricants for diesel engines	Synthetic based oil, SAE 5W-40, exceeding ACEA B4, API CF, FIAT 9.55535-M2 specifications.	<b>SELENIA WR</b>	

(\*) For decidedly sportive use of the car wholly synthetic **SELENIA RACING** 10W-60 engine oil is recommended. **SELENIA PERFORMER** is not required when using **SELENIA RACING** 10W-60 engine oil.

**WARNING** Do not top up with oil that has different specifications than the one already in the engine.

Use	Quality specifications of lubricants and fluids for correct running of the vehicle	Recommended fluids and lubricants	Applications
Lubricants and greases for transmission	Synthetic based oil, SAE 75W-80 EP, exceeding API GL-5, MIL-L- 2105 D LEV specifications.	<b>TUTELA CAR ZC 75 SYNTH</b>	Mechanical gearbox and differential
	Fully synthetic oil, SAE 75W-85, exceeding API GL 4, ZF TE ML06 (B&C) LEVEL, ALLISON C4 specifications.	<b>TUTELA CAR MATRYX</b>	Mechanical gearbox and differential, high temperatures
	Oil type "ATF DEXRON II D LEV".	<b>TUTELA GI/A</b>	Hydraulic power steering unit. Automatic gearbox.
	Oil type "ATF DEXRON III".	<b>TUTELA CAR GI/E</b>	The electronic automatic gearbox is fitted with oil that does not need replacement. gearbox. In the event of oil leakage, contact Authorised Alfa Romeo Services.
	Lithium-soap-based grease with molybdenum bisulphate, consistency NLGI = 2.	<b>TUTELA MRM 2</b>	C.V. joints
Brake fluid	FMVSS n° 116 DOT 4, ISO 4925, SAE J 1704, CUNA NC 956-01 synthetic fluid.	<b>TUTELA CAR TOP 4 FOR ALFA ROMEO</b>	Hydraulic brake and clutch controls
Radiator protection	Protective, red colour, with antifreeze action, based on inhibited monoethylene glycol, with O.A.T. formula, exceeding CUNA NC 956-16, ASTM D 3306 specifications.	<b>PARAFU UP</b>	Cooling circuits. Strength: 50% to -35 °C. Not to be mixed with products having different formulation.
Windscreen/headlamp washer fluid	Mixture of spirits and surface-active agents CUNA NC 956-11.	<b>TUTELA PROFESSIONAL SC 35</b>	To be used neat or diluted.

## RYM AND TYRES

	Progression and Impression Versions	Distinctive Version
<b>Standard fittings</b>		
- rim diameters	6.5J x 16"	7.5J x 17"
- tyres (tubeless)	215/55 R16 93W (*)	225/45 R17 91Y
<b>Optional</b> (for versions/markets where applicable)		
- rim diameters	7.5J x 17"	6.5J x 16"
- tyres (tubeless)	225/45 R17 91Y	215/55 R16 93W (*)
- rim diameters	8J x 18"	8J x 18"
- tyres (tubeless)	235/40 R18 91Y	235/40 R18 91Y
<b>Winter tyres</b>		
- rim diameters	7J x 16"	7J x 16"
- tyres (tubeless)	215/55 R16 93H M+S	215/55 R16 93H M+S
- rim diameters	6.5J x 16"	6.5J x 16"
- tyres (tubeless)	205/55 R16 91H M+S	205/55 R16 91H M+S

(\*) For versions/markets where applicable tyres 205/55 R16 91W.

## SPARE WHEEL

Cars fitted with steel rims and tyres 215/55 R16 (\*) have spare wheel identical with the standard wheels. Cars fitted with aluminium alloy rims and tyres 215/55 R16 (\*), 225/45 R17 and 235/40 R18 have the spare wheel with steel rim and tyre 215/55 R16 (\*).



### WARNING

***On cars fitted with tyres 215/55 R16 (\*), 225/45 R17, 235/40 R18 and spare wheel with tyre 215/55 R16 (\*), since the spare wheel is different from the standard wheels, observe the instructions for use given below.***

***– The spare wheel should only be used in an emergency.***

***– Use of the spare wheel should be kept to a minimum. Do not drive at speeds of over 80 km/h.***

***– The car will handle differently when the spare wheel is fitted. Avoid sudden acceleration or braking, sharp corners and fast bends.***

***– Check at regular intervals that spare wheel pressure is equal to 2.7 bar (2.7 kg/cm²).***

***Two or more spare wheels should never be used together. Have the wheel changed repaired and refitted as soon as possible.***

### **Note for one way tyres**

There are arrows on the side of one-way tyres indicating the direction of rotation. When a wheel is changed (for example after a puncture, the direction of the arrow on the spare wheel might not coincide with the direction of rotation of the wheel to be changed. Even in these conditions the tyre is still safe but you are advised to have the tyre repaired and refitted as soon as possible, because top performance is obtained when all the wheels turn in the direction of the arrow.

**Note** The vehicles are fitted with tubeless tyres. See chapter “Getting the best out of your car” for indications concerning tyres in general and the specific recommendations for tubeless tyres. When replacing tyres and/or rims maintain the original rim/tyre match.

**IMPORTANT** Tyre pressure should be increased by 0.3 bars when driving at sustained high speed. With winter tyres the pressure should be +0.2 bar higher than the rating specified for standard tyres. Do not use inner tubes with tubeless tyres.



**Snow chains can be fitted only on wheels with 6.5J x 16" rims and 215/55 R16 (\*) tyres or 7.5J x 17" rims and 225/45 R17 tyres.**

**(\*) For versions/markets where applicable tyres 205/55 R16.**



## TYRE INFLATION PRESSURE (unladen and in running order)

		Tyres 205/55 R16 91W (*)		Tyres 215/55 R16 93W		Tyres 225/45 R17 91Y		Tyres 235/40 R18 91Y	
		front	rear	front	rear	front	rear	front	rear
Reduced load (2 occupants)	bar	2.3	2.3	2.3	2.3	2.7	2.5	2.7	2.7
Full load	bar	2.3	2.3	2.3	2.3	2.7	2.5	2.7	2.7
Spare wheel	bar	2.3		2.3		2.7		2.7	

(\*) For versions/markets where applicable



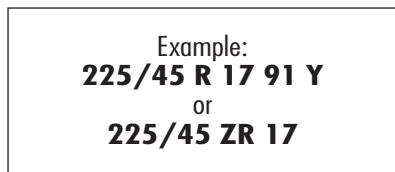
### WARNING

***While the specified dimensions remain unchanged, for travelling safety and correct operation of the VDC, ASR and ABS systems the tyres must absolutely be of the same brand and type on all wheels, in perfect conditions and above all of the specified type and brand.***

## CORRECT TYRE READING

Below are the instructions necessary to know the meaning of the code stamped on the tyre.

The code may be like one of the examples given below.



**225** = Nominal width (distance in mm between the sides).

**45** = Percentage height/width ratio.

**R** = Radial tyre.

**ZR** = Radial tyre with speed above 240 kph.

**17** = Rim diameter in inches.

**91** = Load (capacity) index, e.g. 91 = 600 kg. Not present in ZR tyres.

**Y, Z** = Maximum speed index. In ZR tyres the speed index Z is before the R.

## Load index (capacity)

**60** = 250 kg

**61** = 257 kg

**62** = 265 kg

**63** = 272 kg

**64** = 280 kg

**65** = 290 kg

**66** = 300 kg

**67** = 307 kg

**68** = 315 kg

**69** = 325 kg

**70** = 335 kg

**71** = 345 kg

**72** = 355 kg

**73** = 365 kg

**74** = 375 kg

**75** = 387 kg

**76** = 400 kg

**77** = 412 kg

**78** = 425 kg

**79** = 437 kg

**80** = 450 kg

**81** = 462 kg

**82** = 475 kg

**83** = 487 kg

**84** = 500 kg

**85** = 515 kg

**86** = 530 kg

**87** = 545 kg

**88** = 560 kg

**89** = 580 kg

**90** = 600 kg

**91** = 615 kg

**92** = 630 kg

**93** = 650 kg

**94** = 670 kg

**95** = 690 kg

**96** = 710 kg

**97** = 730 kg

**98** = 750 kg

**99** = 775 kg

**100** = 800 kg

**101** = 825 kg

**102** = 850 kg

**103** = 875 kg

**104** = 900 kg

**105** = 925 kg

**106** = 950 kg

### Maximum speed index

**Q** = up to 160 kph.

**R** = up to 170 kph.

**S** = up to 180 kph.

**T** = up to 190 kph.

**U** = up to 200 kph.

**H** = up to 210 kph.

**V** = over 210 kph.

**ZR** = over 240 kph.

**W** = up to 270 kph.

**Y** = up to 300 kph.

### Maximum speed index for snow tyres

**Q M+S** = up to 160 kph.

**T M+S** = up to 190 kph.

**H M+S** = up to 210 kph.

### UNDERSTANDING RIM MARKING

The following are the necessary indications to understand the meaning of the markings on the rim, as shown in **fig. 7**.

Example:  
**6.5J x 16"**

**6.5** = Rim width in inches (**1**)

**J** = Rim drop centre outline (side projection where the tyre bead rests) (**2**)

**16"** = Rim nominal diameter in inches (corresponds to diameter of the tyre to be mounted) (**3** = Ø)

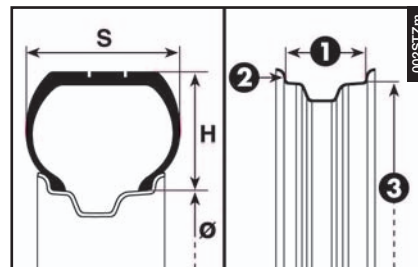


fig. 7

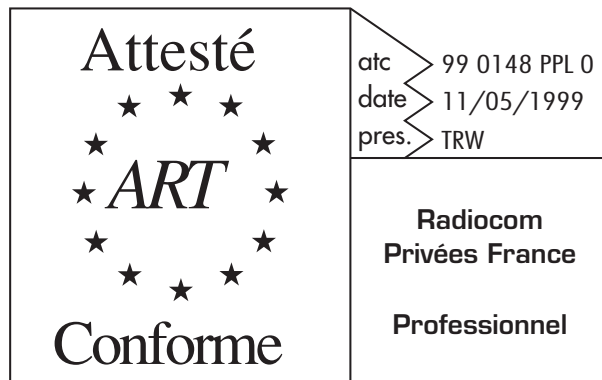


# RADIO FREQUENCY REMOTE CONTROL: MINISTERIAL HOMOLOGATIONS

International automobile code	Country	Homologation number
A	Austria	CEPT LPD F
B	Belgium	RTT/D/X1792
CH	Switzerland	BAKOM 99.0196.K.P
CRO	Croatia	
CY	Cyprus	
D	Germany	CTC R 000 196 L
DK	Denmark	
E	Spain	E D.G.Tel. 09 99 0366
F	France	99 0148 PPL 0
FIN	Finland	
GB	Great Britain	CEPT SRD1eGB RFNRCAB1\TA38618A
GBZ	Gibraltar	
GR	Greece	CEPT LPD GR.YME - TA212

<b>International automobile code</b>	<b>Country</b>	<b>Homologation number</b>
H	Hungary	
I	Italy	DGPGF/4/2/03/339999/ F0/0004562/02/06/99
IRL	Ireland	
IS	Iceland	
L	Luxembourg	
N	Norway	
NL	Holland	CEPT LPD F
P	Portugal	ICP 026TC99
S	Sweden	
SLO	Slovenia	

For markets in which transmitter marking is required, the homologation number has been reproduced directly on the key grip.



CEPT LPD - F

