

DON'T SPEND ALL YOUR MONEY ON CHRISTMAS ~ THERE'S A NEW ALFA GT COMING.

Don't spend all your money on Christmas. That's the message from Alfa Romeo because on 1 January 2005 it will become a whole lot easier to own the World's Most Beautiful Coupé, the acclaimed Alfa Romeo GT, with the launch of the JTS Selespeed version.

"Everything that has made the Alfa GT so special stays the same," says Kevin Wall, General Manager for Alfa Romeo in Australia. "The stunning looks, the lavish equipment, the hand crafted leather the race track bred chassis and, with a 0-100 time of 8.7 seconds, the new JTS version of the Alfa Romeo GT still has the performance to match the looks. But with a price of **\$64,950** it will be more than **\$15,000** easier to get into an Alfa GT from 1 January 2005 and, with Selespeed as standard, it has never been easier to be sexy in the city."

As with the Alfa GT 3.2 litre, which was on sale in Australia before Europe, this market is the first to get the Alfa GT with the combination of the JTS engine and the Selespeed gearbox, thanks to the fact that 80 per cent of Alfa Romeos sold in Australia are equipped with the sequential manual gearbox that owes its origins to the Ferrari Formula One team.

The 2.0 litre 121 kW engine is the same lean burn, direct petrol injection engine seen in the Alfa Romeo 156 and like that car, this powerful, light weight unit use its supreme efficiency to provide the Alfa GT with strong performance, excellent economy and low emissions. Top speed with the JTS engine is 216 kmh and it dispatches the dash to 100 kmh in 8.7 seconds and to a kilometre in 29.2 seconds. In the European combined fuel consumption test it achieves 6.8 litres per 100 km, a remarkably low figure for such a stylish performance car.

With its best of both worlds offering the Selespeed gearbox combines the excitement of changing gears manually in the same fashion as a racing, via paddles on the steering wheel, or the convenience of letting the system change the gears itself. But, unlike a conventional automatic, because the Selespeed is based on the manual gearbox, it offers the performance, economy and emissions of manual gearbox even when changing its own gears.



The Alfa Romeo GT JTS is, like its V6 brother, is spectacularly well equipped. Naturally there is the equipment you would expect in this market position, such as power windows, remote central locking with remote boot opening, full leather interior and a powerful sound system, trip computer, cruise control and heated front seats.

But each of these items has been honed to match Alfa Romeo's requirements. Hand crafted, fine Italian leather is used on the elegant shaped and styled seats that offer both comfort and the lateral grip required in a sports car; the powerful stereo system is fitted with a Bose power amplipher and speakers, as well as a Bosch stacker CD unit and the ability to play MP3; the central locking includes auto-lock to ensure security; the readout on the trip computer to be changed to suit individual requirements.

Performance is nothing without safety and security and here, once again the Alfa Romeo GT has all the features expected of a car in the exacting class. Active safety features include the full range of electronic safety features, such as electronic stability controls (VDC, ASR and MSR) tuned to provide safety but without dampening down the driving experience, as well as the latest generation of ABS anti-lock brakes. Naturally, a responsive chassis aids accident avoidance, as well. Passive safety features are led by six air bags, crumple zones and an occupant safety cell.

Styled by Bertone, the legendary Italian styling house, the Alfa GT takes all the Alfa Romeo elements that have lead to the Alfa Romeo sports cars, the 147, the 156 and the 166 be lauded for their unique elegance, style and eye-catching beauty and added their own unique additions to produce a car that is, quite simply a new byword for beauty.

The Alfa Romeo GT has been named the most beautiful Coupé in the World in annual awards that recognise excellence in car design and styling and which are awarded by a jury of the world's leading car designers, artists, architects and engineers.

No less of an achievement is the interior and, like Alfa Romeo's existing range, it can be expected that this interior will, too, become a palette from which other car makers draw their inspiration. But few will match the clarity of view that Alfa Romeo provides to produce an interior that is both snug like a sports car and spacious like a sedan; stylish to the to ultimate level, but easy to use and ergonomic, in summation an interior that is always an occasion in which to sit, whether in traffic jam or on a favourite stretch of road.

But practicality has not been sacrificed at the altar or emotion. This is a coupé that is also remarkably practical. There is comfort for four people, space and seat belts for five, matched by a spacious boot of 320 litres, which may be enlarged by folding down the split rear seats and a through loading device only adds to the load carrying options. But there are also excellent detail features, such as the lockers on either side of the boot, the 12 volt power point located on one side of the boot and the polished chrome – who says practicality can't also be beautiful – tie luggage down points.

"When the Alfa Romeo GT was in mid-2004, it was clear that it offered a remarkable combination of style, performance and value for money," says Kevin Wall. "With the launch of the JTS Selespeed, we have enhanced ease of driving, boosted value for money and improved the cost of ownership with out having any affect on the beauty of this fabulous car. With this combination of features and price we felt hat it was only fair to warn people that the GT JTS was coming so they could adjust their Christmas spending appropriately!"

The Alfa Romeo GT JTS Selespeed will have a recommended retail of \$64,950 when it goes on sale in Australia on 1 January 2005.



BEAUTY, STYLE AND AGGRESSION: THE ALFA ROMEO GT

The Alfa GT is a car that arouses strong emotions: a dashing, aggressive design with a stylish and sophisticated looks. Herein lies the soul of the Alfa GT, bringing together the essence of the Alfa Romeo brand and elements of the 147, 156 and 166 in a unique design by the Bertone style centre.

All the great European designers have, at one time or other, helped clad Alfa cars. The long history of cooperation has mirrored changes in the company and in popular taste. Nowadays, the craftsmen of bygone times have given way to true designers who work with the Alfa Romeo Style centre, often as outside consultants.

This is the philosophy behind the Bertone Style Centre's creative contribution to the Alfa GT. It is no mere chance that the new vehicle immediately calls to mind the Giulia Sprint GT, the model created by Nuccio Bertone in 1963: Alfa's new coupé shares the same sporty nature, smooth tapering lines and great Italian sense of style.

The Alfa GT offers original style and exhilarating performance. It also represents a brand new concept in sportiness, where comfort and elegance combine. The car aims to offer all the driving satisfaction of an extraordinarily high-performing coupé without the compromises typically dictated by this type of car. The roomy luggage compartment - 320 litres - is one of the most generous in its segment.

With a length of 4.48 metres, width of 1.76 metres a wheelbase is 2.59 metres and a height of 1.37 metres, the Alfa GT Coupé is aggressive and compact with a shape marked by distinctive traits that define its strong personality and render it immediately recognisable.

A new interpretation of the distinctive Alfa motif is evident at the front. The Alfa shield is slightly larger and constitutes an imposing presence out of which the entire car appears to grow. The result is very effective: it oozes force and aggression. This impression is reinforced by two side air intakes and light clusters that are objects of beauty in their own right.

The rear end also has a lot to say stylistically. The tail end of the Alfa GT is compact and slightly dipped and tapering with large blended bumpers. The rear window is drop-shaped while the light clusters are embedded in the body. The tail also offers the right amount of balance and elegance with its strongly raked rear window and quality wraparound tail-light design.

The equally distinctive profile gives the model the appearance of an agile, solid and protective car. This is due above all to a pronounced shelf on the side that makes the car look slender and dynamic. Taut lines that meet at the rear and the small area of glass (compared to the large extent of metal at the side) add elegance and also sturdiness.

Like the exterior shape, the interior of the Alfa GT is as sporty as Alfa Romeos get. The steering wheel, pedals and gearbox, for example, are designed for maximum vehicle control. The instruments are also functional and allow clear, simple and immediate understanding of the information. They also look good. Two large round analogue dials - the speedometer and rev counter - are located on either side, while two smaller gauges are located in the middle - fuel level and coolant temperature - with a central display beneath. All the dials have a grey background and black numbers. Red lighting, with adjustable brightness, makes the dials easier to read at night. The shade is easier for the eye pupils to focus on as they adjust from the dark road to the bright dashboard.



The Alfa GT on-board instrument array includes a multifunction display that allows access to several menus and submenus that speak the motorist's language and offer a host of functions. For example: clock, date, programmable warning buzzer and displays for the radio, phone, check control etc. The trip computer provides a set of information on previous or current trips: fuel consumption (instantaneous and average), average speed, remaining range, journey time and kilometres covered.

In the centre of the facia are the radio and controls for the automatic dual zone climate control system produced with a sophisticated design. In detail, the radio, complete with CD/MP3 player offers an outstanding sound system designed and adjusted to the passenger compartment that consists of six speakers and delivers a power output of 4x40 Watts. The radio may also be activated by controls on the steering wheel.

THE EFFICIENCY OF THE ALFA ROMEO JTS LEAN BURN, DIRECT INJECTION ENGINE

The Alfa 156, aiming for more engineering excellence, launched the JTS engine as a world first: the first direct injection petrol engine with a specific power greater than 60 kW/I (82 bhp/I) and a specific torque of more than 100 Nm/I. An ultra-high performance power unit that takes the name of JTS (Jet Thrust Stoichiometric) from its specific combustion system, an acronym that is destined to identify an entire family of future Alfa Romeo engines.

As far as the customer is concerned, this means a two litre car that:

- Already meets stringent Euro 4 emission limits;
- Does not need low sulphur petrol but is able to use the normal petrol already on sale in Australia, Europe and the United States.

The new 156 was the first petrol engine from Alfa Romeo (and indeed Fiat Auto) with injectors that work directly in the combustion chamber. It achieves its end by interpreting the principles of stratified charge and the creation of motion in the mixture inside the cylinder in an entirely original way.

Lean burn, but not too lean

The possibility of injecting petrol directly into the combustion chamber instead of the intake duct has been known since Nikolaus Otto (who took out a patent in 1877) and has been applied for two different purposes over the years, on racing cars in the Fifties and Sixties to increase engine power and more recently from since 1996 to reduce fuel consumption.

Recently, manufacturers have devoted all their efforts to this latter direction and good results have been achieved with the stratified charge method. The principle is simple: instead of injecting all the petrol required to maintain the normal air-fuel ratio of 14.7:1 (stoichiometric) throughout the combustion chamber, only a small amount of fuel is injected that mixes with the air to form a core of almost stoichiometric composition about the spark plug. The resulting mixture is stratified or layered because it is richer where the ignition spark ignites and increasingly lean (more air and less fuel) as it approaches the outside of the chamber.

So far the benefits of this lean burn system, usually applied in the rpm band up to 3000 rpm, have amounted to a fuel saving of some 10 per cent. The disadvantages may be summarised as follows:

- A drop in performance when the car is required to deliver full power (because the ducts and pistons are shaped in a certain way that is essential to reduce fuel consumption at low speeds);
- The need to use sulphur-free fuel that is difficult to find in Europe and practically unknown Australia and in



the US;

• The requirement for exhaust gas treatment methods (DE-No_x) to reduce the higher nitrogen oxide emissions generated by the leaner burn.

It goes without saying that Alfa Romeo's approach to the new technology had to be quite different. Category-topping performance and irrepressible driving behaviour have always been essential requirements for all Alfa Romeo models.

But what was to stop Alfa Romeo from using direct injection to increase engine power and torque in keeping with the sporty applications of this technology? Then, Alfa's engineers reasoned, the stratified charge system could be brought in to reduce fuel consumption within a restricted rpm band around idle speed.

The result was an entirely original Alfa Romeo approach to applying direct injection in petrol engines. A solution that offered a compromise between the two methods pursued to date.

The JTS engine works using a lean burn approach up to around 1500 rpm and this saves fuel, although not as much as on other lean petrol direct injection engines. Above this rpm, the engine burns a stoichiometric air-fuel mixture, i.e. with a normal 14.7:1 ratio between both components. All this means outstanding performance. This is much better than would be obtained using a normal indirect injection petrol unit.

Firstly, because petrol injected directly into the combustion chamber instead of the duct cools intake air to increase the engine's volumetric efficiency. As temperature drops, the gases increase in density and their volume therefore decreases: this means that more air can be introduced into the combustion chamber.

Power unit susceptibility to knock is also reduced by chamber cooling. It is therefore possible to increase the compression ratio – in this case from 10:1 for the 2.0 Twin Spark to 11.3:1 for the 2.0 JTS.

This means more power for the new Alfa Romeo engine that is, moreover, able to deliver its power unhindered because the exhaust gas treatment system used on the 156 does not generate the strong back-pressure typical of the No_x catalysts used by lean petrol DI engines.

Direct introduction of petrol into the chamber improves power unit response speed to the accelerator control and it is faster overall than a conventional petrol engine.

Benefits: higher performance and lower fuel consumption

Compared to the current 2.0 Twin Spark unit and other currently-available direct injection petrol engines, the 2.0 JTS unit f offers slightly lower fuel consumption and a generous increase in power and – above all – torque. The new JTS engine has exactly the same capacity as the Twin Spark engine yet power is up from 114 kW to 121 kW; torque rises from 187 Nm to a remarkable 206 Nm. And all this is achieved using petrol currently on sale and current catalytic converters.

A new combustion chamber principle

The new JTS combustion system displays two distinctive features:

- The principle followed to generate the movement that propels the air and fuel mixture toward the spark plug inside the cylinder;
- The range of rotation speeds within which the engine works using a lean burn system.

In other Gasoline Direct Injection (GDI) engines, the air's force drags the fuel spray into the area where the ignition spark ignites. This option is determined by a desire to achieve a very lean mixture (up to 60:1) and thus consistent fuel savings. But it brings a need to change the air's motion within the combustion chamber - the



charge motion - according to rpm level and this complicates the air input mechanisms, such as throttles, duct closure systems etc.

On the 2.0 JTS, however, the force of the fuel spray (Jet Thrust) propels the fuel toward the spark plug as it mixes with the air. In this way, it achieves a charge that is less lean overall (the ratio remains constant at all speeds and is 25:1) and less fuel is consequently saved. But the engine's internal mechanism is far less complicated because it lacks systems for altering the air's motion.

The same process of simplification also guarantees the limitation of lean burn technology to rpm levels around idle speed (up to 1500 rpm). GDI engines that use stratified charge within a broader speed band (up to 3000 rpm) must employ modified piston and duct profiles. The resulting shape does not allow power to be optimised at high speeds.

The use of stratified charge only up to 1500 rpm, however, means that the pistons and ducts on the 2.0 JTS Alfa Romeo are hardly altered. Because their shape is more similar to those of current indirect injection engines, they are able to exploit all available power at high speeds.

The addition of an exhaust gas treatment system (No_x catalyst) to remote nitrogen oxides is also only required when the lean burn range is extended up to 3000 rpm. This also dictates the use of sulphur-free fuel, i.e. the only type that will not damage the catalytic converter.

The use of stratified charge only at speeds around idle speed, however, allows the 2.0 JTS unit fitted to the New Alfa 156 to use a conventional catalytic converter system. This result is also made possible by a more extensive use of exhaust gas recirculation, which reduces the production of nitrogen oxides (No_x). Because Alfa Romeo engines are fitted with variable valve timing, exhaust gas is recirculated to the intake on the 2.0 JTS directly between the intake and exhaust valves (internal EGR).

Engineering: what changes

The main engineering changes on the 2.0 JTS compared to the corresponding Twin Spark engine affect the cylinder head (with Bosch injectors fitted in the chamber), pistons, camshafts and exhaust system. All these components are completely new.

The intake ports are high performance; the fuel manifold is high pressure (common rail type); piston compression ratio is higher - and the exhaust – built to Euro 4 standards – is cascade type.

The exhaust gas treatment system works conventionally despite an unconventional layout: the system no longer consists of a preconverter and a main converter located under the body. Instead it comprises two main catalytic converters built into the manifold (each connected to a double branch that leads to two cylinders). This frees up the space under the body for a silencer that is more permeable and thus more able to reduce back pressure for fuller engine power delivery.

THE SELESPEED GEARBOX – PERFORMANCE, COMFORT, CONVENIENCE

Following its success In the Alfa 156 and Sportwagon and then on the Alfa 147 2.0 Twin Spark and most recently in the Alfa Romeo 147 GTA, the Selespeed gearbox is again playing another significant role in the Alfa Romeo range, with addition to the GT. In Australia Selespeed accounts for up to 80 per cent of sales and its popularity has meant it has always been in short supply.



The system's operating functionality shares changes recently made for the 156 – particularly when the device is used in 'CITY' mode. On this setting, the driver can now change a gear, to perform an overtaking manoeuvre, for example, without coming out of City mode.

The Selespeed unit fitted to the GT is therefore even more sophisticated and offers customers the possibility of discovering an easy, sporting, convenient and safe way of driving in all situations.

Easy, because the gearbox, with its robotised gear shift and clutch control, can be manoeuvred using two paddles behind the steering wheel or a sequential gear stick control on the tunnel between the seats.

Sporting, because it allows fast, accurate gear changes for improved performance.

Convenient, because it is less tiring than a conventional gearbox. The system lacks a clutch pedal and gears are easy to engage: there is no risk of grinding gears or slipping the clutch and the engine never stalls accidentally. The transmission also ensures smooth shifts and gradual torque delivery to the wheels. And of course the Selespeed converts into a relaxing automatic transmission that is ideal around town when in CITY mode.

The Selespeed is also very safe. It boasts an array of features designed to prevent the driver from making incorrect commands. It also allows the driver to maintain full control of the wheel even during gear changes when the driver does not have to take a hand away from the steering wheel to reach the gear stick. Without a clutch pedal, the driver is also more firmly anchored in the seat on corners because he can brace himself with his free leg.

THE LEGENDARY 3.2 LITRE V6 ENGINE

The Alfa Romeo V6 engine, from its birth has developed a legendary status for everything from its performance, through the sound it makes to its under bonnet appearance with its polished chrome inlet manifold, aluminium head covers and red badging. It is a race-track power unit that provides every Alfa Romeo to which it is fitted with a heart of unmatched strength and passion.

Evolved into the 3.2 litre version for the GTA versions of the 156 and 147, it gathered even more acclaim at its launch. The engineers changed the crankshaft and pistons to increase the cylinder capacity to 3.2 litres and lengthened the stroke to 78 millimetres. This change speaks volumes about the type of performance required because the power could simply have been increased by adjusting the timing, fuel system and electronics.

The fact that cylinder capacity has been increased by lengthening the stroke means that the aim was not simply to obtain out-and-out performance coupled with high power and torque peaks but also an even, gradual power delivery from the lowest speeds. As befits a car capable of thrilling performance that is suited for driving on ordinary roads as well as on the track.

The increase in cylinder capacity is naturally accompanied by a whole set of changes. The intake and exhaust ports have been tuned by applying a new timing pattern, the control unit software has been rewritten and the cooling system has been upgraded with the addition of an engine oil radiator.

For the Alfa GT, the engine has once again evolved to match the smooth character of the GT.

The result? Power output is 176 kW at 6200 rpm with a maximum torque of no less than 300 Nm at 4800 rpm. These figures are all it takes to achieve exciting performance and are complemented by a torque curve that



provides instant response at low speeds. The car can also travel in sixth gear at less than 2000 rpm and unleash speed without changing gear. Extremely satisfying behaviour, therefore, even during daily use.

DRIVING EXCITEMENT BUT WITHOUT STRESS

The Alfa GT provides a welcoming, well-lit environment that offers much more comfort than would be expected from a sports coupé in terms of space available to the driver and passengers. The new model now also offers all the extra systems and devices made available by contemporary technological advances: bi-zone automatic climate control system, Cruise Control, multifunction display, radio with steering wheel controls and a sophisticated Hi-Fi system by Bose[®], the US company that leads the world in this sector.

Automatic dual zone climate control system

Interior climate is one of the main comfort factors during a trip and is also very important for interior safety because temperature, humidity and ventilation affect the driver's well-being and thus his or her level of alertness and, of course, the heating and ventilation system is also responsible for demisting the windscreen and side windows.

For this reason, the Alfa GT comes with a sophisticated climate control system that automatically controls temperature, air flow, air distribution, compressor activation and recirculation by means of an electronic control unit. It also acts as a dual zone climate control system, to ensure two different temperatures simultaneously: one in the right part of the passenger compartment and the other in the left.

The Alfa GT also implements an equivalent temperature climate control strategy. It records internal and external temperature by means of sensors and assesses the sensation of thermal well-being experienced by passengers, the energy exchange between human body and passenger compartment that is affected by humidity, temperature and treated air flow.

Another sensor located in a central position at the windscreen base records solar radiation on the car and the angle at which the rays strike the passenger compartment. This allows the system to prevent an excessive increase in temperature inside the car caused by the sun and thus to inform the climate control system in time.

All these parameters are monitored continuously and used to update the distribution, ventilation and mixing automatically. Air temperature at the outlets and fan speed are therefore adjusted to ensure passengers experience the desired temperature. The result is a constant climate, even with significant changes in external conditions.

The system may be adjusted to one of seven set combinations to allow air taken into the car to reach all areas of the passenger compartment.

The system also offers three possible temperature settings: 'LO' (maximum cooling), 'HI' (maximum heating) and 'MAX DEF' (fast defrost).

The possibility of altering interior temperature gradually, half a degree at a time, makes for outstanding climatic comfort. The system may be used to bring about a temperature change of 16°C, with a maximum temperature difference of 7 degrees between the left and right areas.

Manual adjustment is used for: setting the interior temperature to the right and left, manual air flow distribution changes, fan speed and fan deactivation, compressor deactivation (in practice, the system works in the same way as an automatic heater), recirculation control and the 'MAX DEF' function for fast defrosting.



Manual choices always over-ride automatic settings. They are also indicated by deactivation of the Full Auto. Each time the system is turned on, it returns to the conditions saved upon deactivation, except for the 'MAX DEF' function, which is zeroed. The entire system can also be turned off manually to deactivate the air conditioning system fully.

Cruise Control

All Alfa GTs are fitted as standard with Cruise Control, a system that helps motorists to manage vehicle speed and improve travelling comfort. The device allows a cruising speed set by the driver to be maintained automatically by governing the engine throttle directly. The device is controlled by means of a lever on the column switch. The first is turned to ON to activate the system while the second must be moved to the plus or minus sign to achieve the required speed. When the control is released, the car continues to travel at the saved speed without the driver pressing the accelerator pedal.

The Cruise Control system can work within the entire range of rpm levels allowed by the engine, but only at speeds over 30 kmh. It is therefore advisable to turn it on only if road conditions allow the set value to be maintained in safety.

When the accelerator pedal is pressed during overtaking, for example, the Cruise Control system is temporarily disabled even though the system stays on. The car therefore accelerates as required, but the system automatically restores the car to the stored speed as soon as the pedal is released. For obvious safety reasons, the device is released automatically when the driver presses the brake or clutch pedal. In this case, the preset speed may be returned to by pressing the RECALL button at the end of the Cruise Control stalk. A warning light on the display indicates system operation or deactivation status.

Multifunctional display

A revolutionary multifunctional display in the middle of the Alfa GT facia performs the twofold function of providing the driver with information on the main trip parameters – a trip computer - and providing instant feedback on car faults and action required.

The device provides access to several menus with submenus that speak the motorist's language (the choice is between Italian, English, Spanish, Portuguese, French, German and Dutch) and offer the benefits of a host of functions and information. For example: date, outdoor temperature, engine oil temperature speed limit setting, and fault display.

The driver can also use the Trip computer to find out a set of data on previous trips or the current journey: fuel consumption (instantaneous and average), average speed, remaining range, journey time (since the trip started) and kilometres covered.

Radio with integral steering wheel controls

The Alfa GT offers a radio with CD player and MP3 player. The sound system is designed and adjusted to suit the passenger compartment that comprises eight speakers and offers a power output of 4 x 40 Watts.

The radio is integral with the dashboard design and located in the middle of the facia in a position that is convenient for both driver and passenger. It can store up to 30 stations. It offers RDS (Radio Data System),TA (Traffic Announcement) and PTY (programme choice option) for when these services become fully available in Australia from broadcasters, in addition to an automatic device that adjusts the volume to the car speed and also a large alphanumerical digital display. Each time the radio is turned on, the volume is the same as when the set was turned off. The set is also controls an external CD stacker with a capacity of 10 CDs. The radio with CD player is also equipped with a 7 band graphic equaliser. This device offers a choice of four equalisation



settings: the default setting and also Jazz, Rock and Classic. The driver can choose special effects, adjust and save the sound parameters. Many of these features can be operated from the controls on the steering wheel.

Bose® sound system

The Bose[®] Sound System is produced for Alfa Romeo by the US company Bose, a leader in the Hi-Fi sound sector, offers each passenger exceptional listening quality under all driving conditions.

The audio system is complemented by a sound system consisting of eight speakers (six plus two full-range speakers) and a subwoofer with a 5-channel analogue amplifier (200 Watts of power) that reproduces the lower frequencies and is built into the luggage compartment.

The Bose[®] Sound System arouses the same emotions as you feel when you listen to a live concert. The system offers realistic reproduction with crystal clear high notes and full, rich bass tones. It does not fall into the trap of creating unnatural sounds that are initially appealing but are tiresome for the listener in the long run. The sound also wraps around all the occupants and gives them the sensation that it is travelling through a much larger environment, because the sound system and the passenger compartment have been designed together to ensure perfect harmony between the technical specifications of both.

To achieve this result, the Bose[®] engineers carefully chose all the parts of the stereo system and established the best possible speaker position in relation to the listeners with the aid of advanced design software.

An integrated signal processor automatically adjusts bass tones so that they are always perfect at any volume. The device is more sophisticated than ordinary volume controls on conventional devices and ensures a high-quality sound that is always natural.

An active equalisation circuit ensures an excellent automatic electronic balance of all output frequencies, great stability and clarity of tone throughout the audio range. All this means that you can enjoy impeccable music reproduction under all driving conditions without having to fiddle with the controls.

Sound clarity is also aided by active compressor circuits that ensure the system does not display any distortion, even when the volume is turned up high. The interaction between all these sophisticated components gives rise to the extraordinary sound that has made the Bose[®] brand famous throughout the world.

CUTTING EDGE TECHNOLOGY FOR THE GREATEST SAFETY

The Alfa Romeo GT offers the most modern safety features and equipment to prevent accidents and protect the occupants when accidents happen. In the preventive safety field, the new model offers xenon headlights, its active safety complement includes VDC with Brake Assist for total control of car dynamic stability under all conditions. As far as passive safety is concerned, the Alfa GT offers up to six airbags: two front airbags, two front sidebags and two window bags.

To ensure the Alfa GT offers the greatest passive safety, the Fiat Auto Safety Centre engineers examined all possible types of accident (frontal impact, side impact, roll-over, shunting and fire), taking into account the various speeds at which impact may occur, the different types of obstacle and the need to protect occupants with very different physical characteristics. The result: the new model is one of the safest cars in its entire segment.

VDC with Brake Assist

To ensure absolute mastery of the car under all conditions, however extreme, the entire Alfa GT is fitted as standard with VDC (Vehicle Dynamic Control) with an emergency brake assist device.



This is the Alfa Romeo version of ESP, or Electronic Stability Programmes. This innovative device cuts in under extreme conditions when car stability is at risk and also helps the driver control the car. As befits a true Alfa, the VDC is a sporting device that allows outstanding roadholding. It enables the driver to enjoy total mastery of the vehicle while conditions are normal, cutting in only as the situation becomes critical. The VDC is permanently engaged.

The MSR (Motor Speed Regulator) cuts in when the gear is shifted down abruptly in low grip conditions. This device cuts engine to prevent the wheel skidding as a result of wheel lock-up.

To achieve these results, the VDC continually monitors tyre grip in both longitudinal and lateral directions. If the car skids, it cuts in to restore directionality and ride stability. It uses sensors to detect rotation of the car body about its vertical axis (yaw speed), car lateral acceleration and the steering wheel angle set by the driver, which indicates the chosen direction. It then goes on to compare these data with parameters generated by a computer and establishes – via a complex mathematical model – whether the car is cornering within its grip limits or if the front or rear is about to skid, either understeer or oversteer.

To restore the correct trajectory, it then generates a yawing movement in the opposite direction to the movement that gave rise to the instability by braking the appropriate wheel (interior or exterior) individually and reducing engine power (via the throttle). This is the key attribute of the device designed by Alfa Romeo engineers. It acts in a modulated fashion on the brakes to ensure the action is as smooth as possible (and the drive is not therefore disturbed). The engine power reduction is restrained to ensure outstanding performance and great driving satisfaction at all times.

As it carries out its complex task, the VDC stays in constant communication with the brake sensors and engine control unit but also with:

- A Body computer that constantly exchanges information with the ABS, engine management unit and automatic transmission unit.
- An electronic throttle, that communicates with the ABS in turn.
- A control panel, active warning lights.
- The steering wheel and steering column via the steering sensor.
- A gyroscopic sensor installed on the passenger compartment floor to record car yaw and lateral acceleration.

The VDC fitted to the Alfa GT also comes with an emergency brake assist device. The function is carried out electronically by the ABS control unit and is referred to as EBA (Emergency Brake Assistance). In emergency braking situations, most drivers recognise a situation of danger and press the brake pedal very quickly. But not, however, with sufficient force. This is because people, unless they are professional drivers, are used to applying a certain load to the brake pedal. Because people tend to switch to autopilot mode when they carry out repetitive actions, the same level of force tends to be applied in all circumstances.

On the Alfa GT, however, the EBA device cuts in at this point. Although the pressure on the pedal is unchanged, the car is decelerated by the same amount as it would be if it were braked with all the necessary force. And there is more. Panic brake assist devices can even help experienced drivers who brake quickly and apply the correct amount of force in emergencies. This is because the system reduces braking attenuation time in all cases, the period between the time when pressure begins to be applied to the pedal and the moment when the circuit reaches maximum pressure and is able to offer maximum performance.



Front airbags, front sidebags and window bags

The Alfa GT offers no fewer than six airbags, all as standard. Firstly the <u>front airbags</u>: for the driver (with capacity of 42 litres) and passenger (90 litres). Their operation is controlled by an electronic control unit on the tunnel that evaluates impact severity by means of sensors that are calibrated by conducting crash tests in the laboratory. Less time than the blink of an eye elapses between a crash and the airbag opening. The gas used to fill the bags is inert, non-toxic argon. The airbags are also made out of nylon 6/6, a permeable material that allows the bag to deflate in a few tenths of a second after impact to minimise skin abrasions. Bag structure is innovative: it is folded in a special way and equipped with two cloth strips that yield gradually to allow the bag to unfold more gradually and not directly toward the occupant.

The system comes with a diagnostic circuit for checking components electronically. The components are tested by a processor that monitors their operation continuously. The airbags will not be activated by low speed accidents, for example, a slight shunt or a bump while parking, or by stresses that are not due to impact, such as driving fast over a pothole).

The passenger front airbag may be deactivated manually by operating a switch on the end of the facia with the ignition key. This means a baby can be carried on a baby seat facing in the opposite direction to the car's motion, but the pretensioner remains active.

The Alfa GT is fitted with <u>two sidebags</u> to protect the pelvis and chest of front seat passengers when the car is struck from the side. They are located inside the front seat squabs. This solution ensures the best possible protection for passengers regardless of their stature, sitting position or seat setting. For geometrical reasons, it is also possible to use a 12 litre airbag: this volume is lower than an airbag housed in the door would require to offer the same protection. The sensors controlling activation of these airbags are located in the central pillars. If an accident occurs, they receive a side acceleration signal and send it to the electronic control unit that is also responsible for operating the front airbags and seat-belt pretensioners. All systems are managed in an integral manner in accordance with a strategy of total, progressive occupant safety.

The Alfa GT is also fitted with <u>window bags</u> that drop down along the windows to safeguard the passengers' heads in the case of side impact. Compared to other solutions, the window-bags adopted on the Alfa GT are more protective (because they always take up the correct position), faster to inflate and less invasive for passengers. They open from top to bottom and do not involve a risk of secondary damage to occupants' arms. They also effectively safeguard the heads of front and rear passengers because they extend along the entire width of the window and ensure protection even during rollover.

Two bags (one on the right and the other on the left) are located under the roof rails where they are folded into a closed compartment. At the appropriate moment, the covering bends open to allow the bags to expand and drop downward.

The toughest tests for total protection

The Alfa GT has passed all the tests conducted to the toughest European, US and Japanese standards: frontal impact ECE R 94 against a deformable barrier offset in relation to the vehicle axis (at 56 km/h); side impact ECE R 95 against a deformable barrier at 50 km/h; rear impact to ECE 32/34 standards (shunting at 35-38 km/h) and the Japanese TRIAS 33 test (shunting at 50 km/h). The new car has also undergone the simulated tests required for the Euro NCAP programme: frontal impact at 64 km/h against a deformable barrier offset at 40%; side impact at 50 km/h against a deformable barrier, and side impact at 29 km/h against a pole. The Alfa GT also performed very respectably in the Insurer's crash test that measures the likelihood that the car will suffer damage as a result of low speed accidents. In many European markets (particularly in Germany and Great Britain), the insurance premium varies according to the class attributed to the car by insurance category associations. This judgement is based on average repair cost and statistical frequency of claims.



The Alfa GT therefore represents the state of the art in the field of passive safety systems. This has been achieved by equipping the new sports coupé with all the most sophisticated devices currently available. These include: side impact bars in the doors, collapsible steering column, six airbags (described in the previous paragraph), seat-belts with pretensioners and load limiters and, on the central rear seat, a third head-restraint and seat-belt with reel.

In the Alfa GT the front and rear seat structure is designed to prevent 'antisubmarining': in other words, rigid transverse elements beneath the cushion prevent occupants from slipping under the seat-belt in the case of accident. The load-bearing properties of the padding foam are also differential to give the correct support to different body parts, offer maximum comfort and assure good lateral and longitudinal containment even over twisty routes.

The Alfa GT is also fitted as standard with head-restraints at the front that can be tilted and adjusted for height and at the rear, including a third rear head-restraint combined with a belt. The new sports coupé is also equipped with an inertia reel seat-belt, pretensioner and load limiter. In case of impact, an electronically-controlled pyrotechnic pretensioner rewinds the belt within a few milliseconds so that it fits snugly to the body. The front reels contain load limiters that yield in a controlled manner to modulate the force exercised on the shoulders of the belt wearer.

All these devices, including the airbags, are governed by a sophisticated "nervous system" that is controlled by an electronic control unit located in the front tunnel. This control unit receives signals from the various sensors distributed throughout the car (and others inside) and decides how many devices should be activated and which ones. This is why the system is said to be 'smart'. It does not activate when the occupant is in no danger of striking the car walls regardless of whether an impact has taken place or not. It detects stresses that are not caused by an impact. It will even work if the electrical system stops working.

All this is made possible by particularly sophisticated operating strategies and detection terminals. Such as two-way accelerometers that provide a set of information that complements signals from satellite sensors on the central panels (responsible for activating the sidebags and window-bags).

The Alfa GT steering column structure is also telescopic to safeguard the driver against the steering wheel intruding into the passenger compartment (in case of frontal impact, particularly at high speed). The steering column is divided into two segments, the lower part consists of a collapsible sleeve that holds the steering wheel position steady at the moment of impact. The upper segment slides (for axial adjustment) and swings (for vertical adjustment).

The outstanding torsional rigidity of the body that is an essential requirement for safety and travelling comfort. The result achieved by the Alfa GT is more than 100,000 daNm/rad, one of the best in its segment. Many aspects contributed to this outcome and also allowed us to turn the passenger compartment of the new model into a veritable survival cell. Examples include rails that crumple in a controlled fashion to absorb impact energy, and doors with side impact bars and reinforcements on the central pillar and belt for greater protection against side impact. Plus front struts linked to the side panel by connecting elements that also help absorb frontal energy. Reinforced front hinges also offer high levels of resistance against crushing. Other strengthened parts include the connection between suspension and dashboard and the windscreen pillars that help make the passenger compartment more rigid side to side and ensure it is joined to the side panels at waist height.

Last but not least, the Alfa GT is also fitted with a Fire Prevention System. This is the most up-to-date and sophisticated solution for protecting a car against possible fire risks. The main system components include an inertia switch that immediately locks the electric pump following crashes of a certain entity. This brings about a pressure drop in the fuel ducts to prevent fuel emerging. On petrol versions, a cut-off value is also fitted after



the tank. This prevents fuel loss in the case of impact, roll-over or damage to the fuel lines. The fuel tank is made out of plastic material resistant to mechanical stress and fire. It is located in a protected position in front of the rear axle.

All electrical equipment power leads are fitted with maxifuses: devices that cut off the power supply when the temperature becomes too high. Connection leads to the starter motor and alternator are covered with an abrasion-proof coating and located in protected areas. Special care has also been taken over the arrangement of components and units (engine bay, electrical system, fuel system and brakes) that could become damaged by a fault or accident. The interior trim is fire resistant (with a flame propagation rate less than 100 mm/min) and meets tough US flame retardant standards.

Xenon headlights

Preventive safety requires outstanding visibility, even at night and in tunnels. The Alfa GT 3.2 is equipped with xenon headlights that offer an improved light emission quality and excellent performance in all weathers. In a gas discharge bulb, the usual internal filament is replaced by two electrodes spaced a few millimetres apart. These generate a voltaic discharge in an environment saturated with low-pressure xenon gas.

The benefits over normal halogen headlights are easy to enumerate: light intensity doubles (from 1500 to 3000 lumens); efficiency increases from 25 to 85 lumen per Watt and hours of duration also increase (from 1500 to 3000). Xenon headlights also consume less energy and distribute the light beam more effectively.

Because they emit a shade that is closer to white light, they also ensure improved visibility even though the level of illumination remains the same. Due to the improved performance offered by the system (brighter, more far-reaching light), xenon headlights are combined with an automatic ride height corrector to prevent the headlights dazzling oncoming vehicles and keep the lit area constant for improved driving comfort.

The device cuts in automatically to compensate for static car changes due to changing loads and also dynamic changes caused by acceleration and braking. This result is guaranteed by sensors on the front and rear suspension that continually read body movements to detect acceleration or braking movements. This allows yawing to be predicted so that ride control can cut in.

RACETRACK HANDLING

The Alfa GT borrows the Alfa 156's suspension layout and adds settings specific to the new model: high double-wishbone at the front, McPherson at the back with transverse rods of different lengths.

The choice of a double wishbone layout for the front suspension meets a specific aim: to achieve maximum lateral grip, a highly effective and precise steering response, excellent traction - and then wed all these specifications with an ability to absorb and dampen road surface roughness typical of the most comfortable cars in the segment. The double wishbone layout allows high longitudinal flexibility to be achieved on the wheel side without impairing roadholding on corners and steering dynamics.

The car's on-road behaviour is aided by a rear suspension able to give the model the greatest stability during high speed manoeuvres and all the agility required of a true sports car over tight mixed routes. Hence the choice of a McPherson suspension featuring asymmetrical arms and refined elastokinetic properties. In the Alfa GT, the rear suspension is connected to the chassis by a cross member made up of vacuum cast aluminium. The benefits of the MacPherson strut layout include low weight, great comfort (assured by extensive wheel travels and longitudinal flexibility) and numerous ride control options.



The front and rear suspension layout also allows the various joints, including the steering arm joints, to yield in a calibrated manner without this affecting driving precision. The set of features adopted allowed us to achieve the very highest level results in terms of insulating out all noise and absorbing the minor roughness that usually gives rise to annoying knocking sounds reverberating from the body.

Front

The high double wishbone front suspension is the most advanced layout, geometrically speaking, because it reconciles a wide range of wheel travel with optimum control of tyre working conditions. This is the outcome of a combined study performed by the Fiat Research Centre and Alfa Romeo Design and Testing.

From a structural viewpoint, the double wishbone configuration consists of a lower cast iron arm, a steel strut and an upper arm in light ally. The coaxial spring-damper unit is connected to the body via a flexible mount and to the lower arm via a fork in light alloy. For reasons of space and structural stiffness, the upper arm is jointed to an aluminium shell anchored to the body, which acts as a support to the upper spring-shock absorber attachment.

Suspension geometry is designed to ensure that wheel camber is taken up during rolling and steering movements, maintaining a constant offset – the distance between the centre of the tyre contact area on the ground and the point at which the steering axis intersects with the ground - regardless of load conditions.

The specific position of the upper wishbone with its axis of rotation tilting forward allows the king pin angle to be controlled under all driving conditions, even the most critical. As a result, the front wheels maintain optimum grip even when steered strongly and the effort required at the steering wheel is more gradual.

All this brings major benefits in terms of handling and on-road behaviour.

- optimised tyre grip;
- maximum roadholding on bends, whatever the load conditions;
- improved traction even under the most difficult conditions;
- precise, sensitive steering even when taking narrow, twisting bends;
- gradual effort on the steering wheel, which increases uniformly up to the grip limit;
- high anti-dive effect (i.e. the front end is prevented from dipping while braking) and anti-lift effect (the front end does not lift during acceleration);
- cancelling of reactions at the wheel when one of the two wheels loses grip;
- natural return of the steering wheel when the car emerges from the bend, with immediate realignment.

Rear

The rear suspension features a MacPherson configuration with particularly advanced geometry and constructional details. The basic structure includes a vertical telescopic element with a coaxial spring, two long transverse rods and a longitudinal strut. The telescopic strut incorporates a pressurised double-acting damper and the coil spring is greatly offset to reduce friction. The end travel buffer cuts in at the final stage of suspension travel and is made out of a special closed cell polyurethane material (known as cellasto) that ensures very gradual elastic action that remains absolutely constant in time. Both transverse arms are pressed out of high strength sheet steel and are of different lengths for a small induced elastokinetic steering effect.

Toe-in is adjusted by means of a cam system on the rear arm. This replaces the conventional screw system, offering benefits in terms of weight and ease of servicing. Both transverse arms and the antiroll bar mounts are secured to a light alloy structure made by vacuum casting. This feature allows a weight reduction of about 1.8 kg compared to a conventional crossmember in steel.

Special attention was devoted to the system for connecting the suspension to the structure to ensure the greatest geometrical precision and minimal transmission of noise and vibration. All the body attachments are



very solid and come with special features such as a shell for the front shock absorber unit. On the rear strut, the shock absorber fastening is separate from the spring support.

To absorb minor roughness more effectively, friction has also been reduced through the use of bushes with dynamic flow slide action on the front upper triangle and rear longitudinal strut attachments and Teflon seals for the shock absorber rods.

THE 'SPORTS COUPÉ' ALFA ROMEO STYLE

Alfa Romeo has written many of the most important chapters in the history of motoring. The leading players in this story are the cars, the designers, the races and the engines that were the stars of technological progress and motorsport events in the Twentieth Century. This is the common strand that links all Alfa models, a venerable gene pool of engineering features and motifs that are critically reappraised and reinterpreted whenever a new car is created. Now, as then, the Alfa Romeo designers and engineers are working to design and build good looking cars that are full of character, to achieve the elusive balance between reason and sentiment, between engineering culture and design creativity. The finest expression of the inimitable personality that makes a car bearing the Alfa Romeo shield stand out from all others on the roads. And the Alfa GT is no exception.

The new sports coupé is a quintessential example of Alfa's creative vitality and our exclusive understanding of cars. It is no mere means of transport but a car able to give its driver true sensations and break through the confines of necessity to the field of pure emotion: aesthetic taste, a passion for sophisticated engineering, the sheer pleasure of sitting behind the wheel and an expression of one's own personality.

The Alfa GT also succeeds in packing the results of Alfa's superlative engineering heritage into a shape inspired by a sense of style and flair that could only be Italian. The stylists were also able to call on a great Alfa Romeo tradition that has brought us models that, particularly within the GT category, remain benchmarks of their type: from the 1900 SS to the Giulietta Sprint, from the Alfetta to the Giulia Sprint GT.

For the aficionados, there follows a short summary of these historical cars. Each of these cars has lent a styling detail to the new Alfa GT but all have given it its character of stylish sportiness.

Firstly, the <u>Giulia Sprint GT</u>. Designed in 1963 by Nuccio Bertone and introduced firstly at Arese and then at the Frankfurt Motor Show, this extraordinary coupé is a stylistic development of the Giulietta Sprint. The car is more compact due to its slightly shorter wheelbase and features a penetrating shape hardly interrupted by a bumper outline, with light clusters embedded in the grille and tail end. The Giulia Sprint GT was equipped with a 103 bhp 1600 engine and could carry up to four people. It remained in production until 1966 and sold more than 22,600. The car's roomy passenger compartment, generous luggage compartment and top-quality interior made it a top-class saloon, but with an unsuspected sporty temperament. So much so that the UK magazine Car and Driver wrote: 'Driving this car is sheer enjoyment'. It was no mere chance the famous GTA logo was seen for the first time on a subsequent version of this model. Now we have reached 18 February 1965, the year when Autodelta presented the Giulia Sprint GTA coupé, where A stands for 'alleggerita' or lightened. The outer body was the same as that of the GT, but the interior trim was made out of Peraluman 25, a light alloy of aluminium, manganese, copper and zinc. The new car differed from its sister externally in the addition of front air intakes, handles and the triangular Autodelta badge.

The Alfa GT is truly the heir to this car of the early Sixties that met with such great commercial and sporting success. The same could be said of another two versions of the model: the Giulia saloon TI and the Giulia Super 1600. An advertising slogan of the day said that the TI was the car 'designed by the wind'. The shape was revolutionary: low front enclosed by four headlights, plunging bonnet, a windscreen as small as that of a fighter



aircraft and, above all, a cut-off end. The engine was a 1570 cc unit capable of unleashing 92 bhp. Then came the Giulia Super 1600 of 1965, featuring padded, wraparound seats and a facia with a wooden dashboard. The car was also fitted with a chrome strip beneath the doors and stainless steel bumpers. All these trappings disguised considerable power and torque: 98 bhp and 13.3 Nm.

Like the Giulia Sprint GT before it, the new Alfa Romeo model harks back to another prestigious car: the <u>Giulietta Sprint</u> designed by Nuccio Bertone in 1954, the car that many consider to be the forerunner of present-day sporty Gran Turismo cars. A top speed of 165 km/h made it the fastest car in its category. One year later, at the 37th Turin Motor Show, came the turn of the saloon: 1290 cc cylinder capacity, 53 bhp and 140 km/h top speed (rising to 62 bhp and 145 km/h in 1962). Nothing could beat it in its market category at the time and motorists knew it. For about ten years, the Giulietta – in the form of the Sprint, Saloon and Spider - continued to exert the same appeal and increased Alfa Romeo sales from tens of thousands of units to hundreds of thousands. The hundred thousandth Giulietta rolled off the Portello production line in February 1961 in the presence of its godmother, actress Giulietta Masina. Although its cylinder capacity and dimensions were small, the model deserves a place in the history of Alfa Romeo sports saloons for the way it was able to interpret the contemporary motoring *zeitgeist*: the uncluttered, appealing lines of a coupé, state-of-the-art mechanical units, power and roadholding.

The third reference point for the new Alfa GT sports coupé was the <u>Alfetta</u>, with which it shares its original styling, whereby a compact external shape conceals optimum passenger room and a luggage compartment measuring more than half a cubic metre. The Alfetta saloon went on sale in 1972 and immediately became an icon of the decade. It owed its success to its excellent design, which combined an appealingly mettlesome style with a lively engine, sophisticated mechanical units and great production quality. The engine was a tried and tested 1.8 twin shaft four cylinder unit of 122 bhp capable of carrying this car, which weighed just over one thousand kg and measured 4.28 metres long, to 180 km/h.

In 1975, the model range was extended to include a version with a 109 bhp 1.6 engine (identifiable from the outside by its front end with just two headlights) while the 1.8 underwent a couple of changes. The Alfetta 2.0 that appeared two years later was something else entirely: the redesigned front end was ten centimetres longer; the headlights had become rectangular and other changes had been made to the grille, bumpers, tail-lights and – naturally – the interior. The facia was more linear (it was also walnut trimmed on the 2000 L from 1978) and the upholstery and door panels were in fine cloth. The steering wheel, seat profile and instruments and controls were also different. The bigger capacity made the car easier to handle and ensured the Alfetta was one of the best balanced cars in its category. After 1979, it also became the first turbodiesel saloon to feature a cylinder head divided into four parts, one per cylinder.

We will close this brief review of cars that inspired the new model with the <u>1900</u>, in particular the two Sprint and Super Sprint coupé versions that reached a top speed of 190 km/h. Apart from anything else, when Alfa Romeo launched the 1900 in 1950, it invented the 'sports saloon' and the model became the first Alfa with a load-bearing body. The result was, according to a apt slogan of the day, 'the family car that wins races'. Above all, it introduced the idea of a new motoring concept: a high-performing saloon for everyday use. In some ways this four-doored saloon heralded the styling of the Giulietta. It was very roomy inside and could accommodate five people, plus a child on the front seat because the gear-lever was on the steering wheel. This was a family car, yet it came with an effervescent 1884 cc four cylinder in-line engine that offered the driver 90 bhp. This model took Alfa Romeo to success in sporting competitions: the Tour de France, the Targa Florio, the Stella Alpina and the Coupe des Alpes.

Altogether, the Alfa GT offers a deliciously nostalgic taste of these four famous models, yet packaged in an up-to-the-minute shape. Attention to detail is also its most telling attribute. Going back to the past does not necessarily mean stealing the shape of an earlier car. It means reclaiming the motifs that belong to Alfa Romeo



by traditional right and reinterpreting them in the light of opportunities offered by present-day technology and contemporary customer taste.



Alfa Romeo GT: Technical Specification

ENGINE		Alfa GT JTS Selespeed	Alfa GT 3.2 V6		
No. of cylinders, layout	t	4 in line, front transverse	6 in 60° V		
Bore x stroke (mm)		83 x 91	93 x 78		
Capacity (cc)		1970	3179		
Compression ratio		11.3:1	10:1		
Max. power output EC:	kW (bhp)	121 (165)	176 (240)		
at rpm		6400	6200		
Peak torque EC: Nm (k	gm)	206 (21)	300 (30.6)		
at rpm		3250	4800		
Timing (control)		2 OHC with hydraulic tappets and	4 OHC, (toothed belt) with hydraulic		
		electrohydraulic variable valve	tappets		
		timing force fitted on the inlet			
		camshaft driven by a Bosch control			
		unit			
Fuel feed		Bosch Motronic MED 7.1.1 phased	Bosch Motronic ME7.3.1 phased		
		sequential electronic MPI with	sequential electronic MPI with		
		selective knock control	selective knock control		
Ignition		Static, electronic digital combined	static, electronic digital combined		
		with the ignition, knock sensor, and	with injection, knock sensor and 6		
		4 HT coils in the head, 1 spark plug	HT coils fitted in the head, 1 spark		
		per cylinder.	plug per cylinder		
Emissions control		Euro 4	Euro 4		
CO ₂ emissions (g/km)		208	295		
ELECTRICAL EQU	JIPMENT (12V)				
Battery: capacity (Ah)		60	60		
TRANSMISSION		-			
Drive		Front	Front		
Туре		Sequential manual	Manual		
Gearbox: 1	st	3.909:1	3.500:1		
2	Ind .	2.238:1	2.235:1		
3	rd	1.520:1	1.520:1		
4	,tn 	1.156:1	1.161:1		
5	ym	0.946:1	0.971:1		
6	jtn	~	0.818:1		
E station and	leverse	3.909:1	3.545:1		
Final drive ratio		3.733:1	3.733:1		
WHEELS/STEER	ING		005 (45 304 3		
Tyres		225/45ZR1/	225/45ZR17		
wheels		17 Inch alloy	17 inch alloy		
Steering box		rack and pinion with power steering rack and pinion with power steering			
Turning circle between	kerds (m)	11.5	12.1		
SUSPENSION/BI	RAKES				
Front		independent, dual wishbones with double trailing arm and anti-roll bar			
Deer		mounted on ball joints			
Real		independent, Machnerson struts with transverse levers of different			
		religuis anchored to an auminium cross beam, reaction arms, offset			
		con springs, and anti-roll dar mounted on dall joints and linked to the			
		311068 40301061			
Eront: dia (mm)		D 284 (ventilated)	D 220 (ventilated)		
Front: dia. (mm)		D 284 (ventilated)	D 330 (ventilated)		



DIMENSIONS/ WEIGHTS				
No. of seats / No. of doors			5/2	
Length / Width (mm)		44	89 / 1763	
Height, unladen (mm)		1362		1355
Wheelbase (mm)			2596	
Front/rear track unladen (mm)		15	524 / 1510	
Boot capacity VDA (litres)			320	
Fuel tank (litres)			63	
DIN kerb weight (kg)		1320		1410
Max. towable weight (kg) with braked trailer		1300		1400
PERFORMANCE - FUEL CONSUMPTI	ON			
Speed with engine at 1000 rpm in 5 th (km/h)	32.8		32.2	
Top speed (km/h)	216		243	
Acceleration (s)				
(1 adult + 30 kg):				
- 0 to 100 km/h	8.7		6.7	
- 0 to 1000 m	29.2		26	
Fuel consumption as per EC directive 1999/100 (I/100 km):				
urban cycle	12.3		18.6	
extra-urban cycle	6.8		8.7	
combined cycle	8.7		12.4	

Alfa Romeo GT: Colours

● □ available	O recommended	📼 not available		
	Fine-grained leather	Fine-grained leather	Fine-grained leather	Fine-grained leather
Leather colour	beige	red	grey	black
Non-metallic colours				
Alfa Red	0		•	0
Luxor Black	0	0	•	•
Metallic colours				
Brunello Red	0		•	0
Sail Blue	0	•	0	•
Metallic Blue	0	•	0	0
Sterling Grey	•	0		0
Seagull Blue	•	•		0
Metallic Black	0	0	•	•
Antares Grey	0	0		0
Kafla Grey	0	0	0	0
Light of Amalfi Grey	•			0
Nuvola Blue	•	•		•

Alfa Romeo GT: Equipment

\checkmark = standard 0 = o	ptional	-= not available			
VERSION				Alfa GT JTS Selespeed	Alfa GT 32. V6
ABS with EBD			 ✓ 	/	\checkmark
Alloy wheels, 17inch			 ✓ 	/	\checkmark
Armrest, front with storage box			✓	/	\checkmark
Armrest, rear			✓	/	\checkmark
Audio System with CD and MP3 pla	ayer, eight spe	akers	✓	/	\checkmark
Bose® hi-fi system with subwoofer			✓	/	\checkmark

Alfa GT

CD-changer in luggage compartment	\checkmark	\checkmark
Central locking/release with remote control (doors and boot)	\checkmark	\checkmark
Climate Control AirCon with bi-zone	\checkmark	\checkmark
Cruise control	\checkmark	\checkmark
Driver and passenger airbag	\checkmark	\checkmark
Follow-me-home device	\checkmark	\checkmark
Front electric windows with automatic device and anti-obstruction system	\checkmark	\checkmark
Front sidebags	\checkmark	\checkmark
Headlight wash	\checkmark	\checkmark
Headrests, rear, three	\checkmark	\checkmark
Heated electric door mirrors	\checkmark	\checkmark
Iridescent paint	0	0
Leather steering wheel	\checkmark	\checkmark
Metallic paint	0	0
Passenger seat height adjuster	\checkmark	\checkmark
Radio electric controls on steering wheel	\checkmark	\checkmark
Rain Sensor	\checkmark	\checkmark
Rear parking sensor	\checkmark	\checkmark
Seats, Front heated	\checkmark	\checkmark
Seats, Leather	\checkmark	\checkmark
Seats, rear, three lap, sash	\checkmark	\checkmark
Ski tunnel	\checkmark	\checkmark
Split folding rear seat (60/40)	\checkmark	\checkmark
Trip computer	\checkmark	\checkmark
Tyre inflation kit	\checkmark	\checkmark
Tyres, 225/45	\checkmark	\checkmark
VDC	\checkmark	\checkmark
Window-bags	\checkmark	\checkmark
Xenon headlights	0	\checkmark