

## **THE ULTIMATE HYPER HATCH ARRIVES IN AUSTRALIA: 250 BHP ALFA ROMEO 147 GTA**



There is a new breed of performance car: The Hyper Hatch. And the ultimate car of the breed has arrived in Australia, the 250 bhp Alfa Romeo 147 GTA, the most powerful, most stylish and the best equipped of its class.

Although the Alfa Romeo 147 GTA's ancestor is the hot hatch, the class of car that redefined performance cars in the 1980s, the Alfa Romeo 147 GTA is more than a new generation. It is a redefinition of compact performance, a redefinition of style and the very definition of class leading equipment and features.

Take performance first. It is not just that the Alfa Romeo 147 GTA has 250 bhp or 184 kW of power. This is backed up by an epic 300 Nm of torque. This combination not only provides shattering through the gears performance that eliminates the zero to 100 kmh dash in 6.3 seconds and which thunders on to a top speed of 246 kmh. It also means that the 147 GTA can loaf around in fifth gear at 60 kmh and respond instantly, with startling alacrity and without changing a gear, to hurl the speedometer needle around to more than 240 kmh. This is in sharp contrast to lesser performance cars that require more work to achieve less.

The original Alfa Romeo GTA was billed as the car that could be driven during the week and raced at the weekend. The 147 GTA is a true inheritor of this spirit. Tests don't come much harder than the legendary Targa Tasmania. More than 2000 kms of winding, twisting plunging and rising roads that demand the best of car and driver. Take a 147 GTA a week before the 2003 event, fit safety equipment, start event, replenish fuel and oil, collect both category and class wins in the Showroom arena. The hills were alive to the sound of the Alfa Romeo V6 engine and the heritage of performance continues.

Style. The original Alfa 147 was and is nothing less than a work of art, from its deep drawn Alfa Romeo shield to its jewel like rear lights. To this Alfa Romeo has added a new aggressive edge, starting with wider track, front and rear, with the larger wheels and tyres required to transform power and torque into forward motion. These have been clothed in new flared guards that not just match the original style, but enhance it. At the front, additional air intakes between headlights and grille and a new, deeper bumper more than hint at the power that lies within the Alfa Romeo 147 GTA. At the

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rear changes are made top and bottom. A new bumper with large air extraction vents are filled with black honeycomb mesh and at the top a rear wing reflects the window shape in its profile. The interior is completed by deep backed Italian racing style seats, drilled pedals and instrument markings that are a clear link to Alfa Romeo's performance heritage.

Looking at the Alfa Romeo 147 GTA from the outside or from behind its leather clad sports steering wheel, there can be no doubt about its performance intent.

The Alfa Romeo 147 is a well equipped car; there can be no doubt about that. And this is carried on by the 147 GTA, from its classic Italian sports seats to its full range of electronic equipment and the Hi-Fi audio system

With a recommended retail price of \$59,990, the wealth of performance, features and style does not come at a premium above its less able competitors. Indeed, even though it could be seen as an odd phrase to use in this rarefied performance and style arena, the Alfa Romeo 147 GTA can be seen to offer real value for money

"The Alfa Romeo 147 GTA is not just the ultimate definition of Alfa Romeo performance," says Kevin Wall, General Manager of Alfa Romeo in Australia. "It is already a proven winner, a car that can with real justification lay claim to the heritage of the GTA, with a car that race and win at weekends and be driven normally during the week. In other words, a car of unique all around ability."

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### **The Alfa Romeo 147 GTA in detail**

The Alfa Romeo 147 GTA made its world debut at the 2002 Paris International Motor Show, as the second Alfa Romeo of the modern era to carry the celebrated GTA name some 12 months after the launch of the Alfa Romeo 156 GTA and 156 Sportwagon GTA. It went on sale in Europe in January 2003 and its arrival in Italy saw more than 100,000 people visit Alfa Romeo dealers in its first weekend on sale.

The heart of the 246 kmh Alfa Romeo 147 GTA is the legendary Alfa Romeo V6 engine which, with its 184 kW from 3.2 litres, has made the 156 GTA one of the most sort after sports sedans in Australia. Fitted to the stylish 147, the 3.2 litre V6 enables the Alfa Romeo 147 GTA to cover the dash to 100 kmh in just 6.3 seconds.

Subtle changes to the exterior of the 147's classic design have endowed it with a restrained aggression and up rated aerodynamic efficiency for high speed stability. Inside the 147 GTA has gained the option of classic high backed racing seats in leather to compliment the unique to the GTA sports cloth trim.

The basis for the 147 GTA, the 2001 European Car of the Year winner, the Alfa 147 is renowned for its attractive styling, great sporting temperament and outstanding automotive engineering, along with top-quality interiors and finish complemented by an ultra-comprehensive technology package. These are the distinguishing features that



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underpin the success of the Alfa 147.

Those who love to drive will find the small Alfa is a compact car capable of outstanding performance over any route and one that always rewards its driver with that ultimate thrill.

Now imagine an Alfa 147 that maintains these attributes but also offers better performance, better braking capacity and the dynamic performance of a racing car. Imagine the GTA version.

This aptly-chosen name identifies a range of vehicles that constitute the absolute quintessence of Alfa Romeo sporting values. Models with a spirit that harks back to a great tradition of races and victories, coupled with a highly sophisticated, up-to-date engine and mechanical specification.

The model has been produced with the aim of creating an everyday car that can still offer its driver race-track performance and sensation under the right circumstances. For this reason, apart from a few tweaks to add dynamism and aggression, the body of the Alfa 147 GTA retains the original vehicle's acclaimed cool, stylish lines. But everything else has been radically changed.

The engine has been swapped for a sizzling 3.2 V6 24v unit. The suspension geometry and settings have been altered. And VDC - a highly sophisticated vehicle dynamic control system - has been added as standard.

The result is a car that is the most powerful and fastest representative of its segment (250 bhp - 184 kW) and capable of thrilling performance: 246 km/h top speed; 6.3 seconds from 0 to 100 kmh and 26.1 seconds to cover a kilometre from a standing start. Not to mention outstanding dynamism, ride and handling. These are the telling differences that ensure the Alfa 147 GTA will deliver a unique driving experience.

On the outside, the Alfa 147 reveals new features that reflect the changes to its chassis and mechanical specification. These are also important stylistically because they make the vehicle look broader, closer to the ground and more beefy while still ensuring instant recognition.

### **The Alfa Romeo 147 GTA: The Exterior**

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The sophisticated mechanical array had to be complemented by styling that conveys an idea of strength and sportiness in a few brief but telling lines. This had to be achieved without altering the car's original, stylish shape that is known and loved by our customers. Changes that affected the external appearance had to be limited to parts affected by technical changes to the chassis and mechanicals.

The outcome is the Alfa 147 GTA, an out and out performance car that borrows the clean, spare design (yet also elegant and full of appeal) that assured the basic model such success. The natural tension set up between the rounded surfaces and ridges is



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resolved in an ideal balance. The design also hints at historical brand motifs, albeit in a very modern and understated way. For example, the bonnet is drawn out lengthways to suggest a mighty engine capable of far from ordinary verve and alacrity. The tail tapers when viewed from top or side to make the car look more slender and dynamic.

The Alfa 147 GTA has borrowed all these exterior features from the basic model. The new model differs in its broad wings that stand out at the front to accommodate the generous 17 inch wheels and 225/45 tyres; in the black headlight surrounds that add to the air of sportiness and the foglights that have been shifted toward the outside of the car to free the air intakes and allow the mighty power unit to breathe more easily.

The resulting image is of a strong, compact car with mastery of the road and a pronounced personality of its own. This is also borne out by a beefy side view underscored by a new sill extension linking the two broad guards. New clover-leafed wheels exclusive to the GTA range add a clean, highly engineered feel.

At the rear, the new version features a bigger bumper. This feature is hardly apparent from the side but is apparent when the car is viewed from behind. The lower part of the 147 GTA's rear end looks completely different from the original model from boot floor level downward. One reason is that the rear bumper contains a big air extractor that is visibly divided by the metal panels into one long horizontal opening and two smaller side openings. The extractor serves the aerodynamic function of carrying airflow from the front of the car to the back of the car, creating a slight vacuum under the car to pull it on to the road, just like racing cars. The final touch is provided by two oval exhaust tailpipes in line with one of the brand's classic styling cues.



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### **The Alfa Romeo 147 GTA: The Interior**

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In a car of great character, the interior always revolves around the driver's cockpit. The Alfa 147 GTA is no exception, as you would expect from a car created for irrepressible performance. The GTA complements the basic Alfa 147 package with a few sporty styling details exclusive to the GTA.

These include a brand-new three-spoked steering wheel, gear lever with leather gaiter and surrounds in Puma grey leather, a darker shade than that of other Alfa 147 versions. The out and out sporty pedals include drilled aluminium pedal covers and footrests with rubber inserts and ergonomic shapes.

These are complemented by a mat in the central storage compartment made out of metalluro with rubber detailing.

The seats are sports-configured and fitted as standard with a sports cloth upholstery unique to the GTA. As an option, high back leather clad seats are optional. These use the classic Italian sports seat design with two leather colour choices, one shade, black, or as a two-tone combination. The latter offer black leather side bands while the central cushion and backrest insert may be in tan, grey or blue as required by the customer.

The seat design displays the horizontal ridged design made famous by so many Italian sports cars of the past. The front seats come with a built-in head-restraint and adjustable seat. They are divided by an armrest with storage compartment. The rear seat offers the same sports configuration but all the comfort of a true five-seater.

The Alfa 147 GTA interiors may also be distinguished from other model versions by other features. The door panels, for example, come with cloth or leather inserts that reflect the same motifs and colours as the central part of the seats. The ceiling is grey-black, while the boot trim is completely black. The same applies to the sun visors, courtesy light and pillars. One more distinctive trait that has become a standard feature on the Alfa 147 GTA is a mat fastened mechanically to the carpet. The sill plates come with a satinised metal insert bearing the wording GTA in bright metal.

The control panel also displays new features, with special gauges and a black background. The reading scales also look different, while a screen on the multifunction display shows engine oil temperature.



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### **The Alfa Romeo 147 GTA: Suspension**

The Alfa 147 GTA suspension layout is based on the formidable combination of high double wishbones at the front, the only car in its segment to offer this configuration, and an advanced MacPherson arrangement at the rear.

This engineering option has already brought the Alfa 147 great success and has been specially adapted to the upgraded features of the new car to assure the Alfa 147 GTA outstanding dynamic performance coupled with superlative comfort.

The suspension is the final outcome of a long and thorough development process carried out on the basic layout with the aim of achieving the highest levels of driveability and handling. These features allow the driver maximum mastery of the new car's great sports performance for the best possible results on the road. From the customer's viewpoint, the new version:

- ✚ Is responsive;
- ✚ Is smooth and accurate in its steering;
- ✚ Is very stable and easy to control even when close to the grip limit;
- ✚ Features highly contained body movements;
- ✚ Offers great comfort on all surface and road surface conditions.

#### **Front Suspension**

The Alfa 147 GTA offers its drivers the great control typical of front wheel drive cars plus outstanding sportiness and driving precision. This is particularly evident over mixed roads. The credit for this goes first and foremost to the high double wishbone front suspension. The new front suspension was developed specifically for the model by the Fiat Research Centre and Alfa Romeo Research. It departs from the configuration used on the Alfa 147 in offering a reinforced lower beam, lower ride, new shock absorber and spring settings, a special wheel strut that is fastened to the steering link

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in a different position - and a larger diameter anti-roll bar.

These engineering improvements increase the dynamic performance of the high double wishbone suspension - known as a quadrilateral suspension because the arms - two overlapping triangles with their bases hinged to the car body and their tips to the wheel unit - create a four-sided figure.

This structure consists of a cast iron lower arm, a steel strut and an upper light alloy arm. The coaxial spring-shock absorber unit is connected to the body via a flexible mount and to the lower arm via a light alloy fork. 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.

From a dynamic viewpoint, the high double wishbone layout ideally combines broad wheel travel with outstanding control of tyre service conditions. This is achieved because the upper arm is located higher than the wheel centre: this means that the area between wheel and power unit accessories can be exploited to the full.

Other benefits of this configuration include excellent tyre grip, improved traction even under extreme conditions, a self-steering effect proportional to the side acceleration applied on a bend, greater steering precision and sensitivity, gradual and even steering wheel effort to the grip limit - and also cancelling of lifting of the front during acceleration and anti-dive effect under braking.

Great attention has also been devoted to the absorption of minor road irregularities. Hence the choice of fluid dynamic bushes to hinge the upper triangle to the shell; split gaskets and bushes in Teflon loaded with fibreglass for the shock absorber stems - plus a Teflon seal for the shock absorber piston.

### **Rear Suspension**

The rear suspension has also undergone many technical improvements. The geometry and the constructional details of the tried and tested MacPherson configuration have both been revised. The outcome is a different body attachment position; special spring setting; different shock absorber and bush stiffness; anti-roll bar with bigger diameter.

The GTA's MacPherson suspension also adopts innovative construction features. For example, the coil springs not only offer a different stiffness and lower ride to those of the Alfa 147 but also rest on a lower and upper plate with a rubber ring mount to reduce noise levels. The anti-roll bar is connected directly to the shock absorber via plastic connecting rods and jointed on steel ball joints with a Cellasto upper end travel block which is made from closed cell polyurethane that maintains its flexible properties over time. The double-acting hydraulic shock-absorbers, also new, are pressurised and built in high strength steel with reduced thickness. Lastly, the side levers, suspension arm and rear beam bushes are all made especially for the Alfa 147 GTA. The upper shock absorber attachment also displays a new tapered block fastening system. Assembly is easier and the system is more reliable because the attachment need not



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be bolted to the body.

These significant technical innovations and features are bound to improve performance and driving comfort still further. Suffice it to say that the modified rear suspension can absorb obstacles more easily because the wheels withdraw lengthways to keep the car on its trajectory. The system also assures maximum directional stability when the car meets obstacles such as tram lines, dilation joints on motorway bridges. And more. The Alfa 147 GTA rear suspension increases the smoothness and alacrity of steering response and means the car is more able to align itself automatically, even under extreme conditions. This is achieved by ensuring the wheel steers consistently under side load. Not to mention the fact that the Alfa 147 GTA gains negative wheel camber during roll due to the new rear suspension. In other words, cornering grip is increased to ensure the roll centre position is more accurate to improve the car's general balance.

### **The Alfa Romeo 147 GTA: The Engine & Gearbox**

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The Alfa 147 GTA power unit is the same 3.2 V6 24 valve engine fitted to the Alfa 156 and Alfa Sportwagon GTA. It is a spirited, well-rounded engine as befits a six-cylinder unit and is derived from the now classic three-litre V6 24 valve unit fitted to top of the range Alfa 166, Spider and GTV models.

The Alfa 147 GTA engine differs from its predecessor in certain respects. First and foremost, power has been increased by making radical mechanical changes. The power could simply have been increased by adjusting the timing, fuel system and electronics. But instead the engineers changed the crankshaft and pistons on the GTA to increase the cylinder capacity to 3.2 litres and lengthened the stroke to 78 millimetres. This was done with one very specific aim: to ensure absolute performance and high power and torque peaks combined with smooth, gradual delivery from low speeds. For this reason, the 3.2 V6 24v unit can deliver thrilling performance - and that means a top speed of 246 kmh and 0 to 100 kmh in 6.3 seconds - but can also be used as an everyday car.

The self-confessed goal of the GTA is this: To offer sensations unique to a racing car yet still be perfectly serviceable for everyday use.

The 3.2 V6 24v unit fitted to the Alfa 147 GTA develops 184 kW at 6200 rpm with a maximum torque of 300 Nm at 4800 rpm. These figures are all it takes to achieve exciting performances and are complemented by a torque curve that permits high values at low speeds. The car can also travel in sixth gear at less than 2000 rpm and unleash speed spurts without changing gear. Extremely satisfying behaviour, therefore, even during daily use.

The increased cylinder capacity naturally required further changes. For example, the control unit software has been rewritten, the cooling system has been upgraded with the addition of an engine oil radiator - and the intake and exhaust ports have been tuned by applying a new timing pattern.



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The 3.2 V6 24 valve unit fitted on the Alfa 147 GTA already meets the tough Euro 4 emission limits.

The transmission has also been reinforced: the half-axles are new, while the clutch is bigger and the six-speed gearbox offers new, sturdier components.

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### **The Alfa Romeo 147 GTA: Safety**

In addition to a braking system with outstanding performance, consisting of 305 mm ventilated front discs with dual pump Brembo calipers and 276 mm rear discs, the Alfa 147 GTA also comes with state-of-the-art electronic devices for controlling the car's dynamic performance for braking and traction.

Hence not merely an ABS but also an EBD to distribute brake force over front and rear wheels and a sophisticated VDC to control dynamic stability on corners, complemented by MSR and ASR. The former moderates brake torque while changing down through the gears while the latter limits wheel slip during acceleration.

#### **ABS with EBD**

The new model is fitted as standard with a Bosch 5.7 ABS, one of the most advanced units currently available on the market with an integral electronic brakeforce distributor (EBD). The beauty of this device - which comes with four active sensors, four channels and a hydraulic control unit with 12 solenoids - lies in the fact that its active sensors can process a wheel input signal themselves instead of sending it on to the control unit - effectively a computer for each wheel, as well as the central computer.

The system can therefore cut in more quickly and also detect speed signals close to zero. Passive sensors do not detect speeds lower than 4 kmh. They are also less sensitive to interference caused by electromagnetic fields and road surface heating.

This cutting-edge ABS is complemented by an electronic brake-force distributor (EBD), that distributes braking action over all four wheels to prevent them locking and ensure full control of the car in all situations. The system also adapts its operation to wheel grip conditions and brake pad efficiency to reduce pad overheating. This ABS is so sophisticated it ensures:

- ✚ Maximum braking force on each wheel close to locking depending on grip on the ground.
- ✚ Full car control even with the brake pedal pressed to the floor.
- ✚ High ability to adapt automatically to different service conditions and very prompt responses.

#### **VDC - MSR**

To ensure absolute mastery of the car under all conditions, however extreme, the Alfa 147 GTA is also fitted with the VDC (Vehicle Dynamic Control) device that first made its



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appearance on the Alfa range leader, the Alfa 166 3.0 V6 24V.

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 allows the driver to enjoy the full satisfaction of controlling the car as long as conditions remain normal and does not cut in until the situation is just about to become 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 restores torque to the engine to prevent the wheel skidding as a result of lock. To achieve this result, 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 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 contained 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:

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

### **ASR**

The Alfa 147 GTA also comes with ASR (Anti Slip Regulation), a feature of the VDC system, to limit drive wheel slip in cases of low road surface grip. This sophisticated device works at any speed and prevents the drive wheels from slipping by adjusting torque according to the grip coefficient detected at the time of slip.

The device computes degree of slip on the basis of wheel rpm calculated by the ABS sensors and activates two different control systems to restore grip:



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- When an excessive power demand causes both drive wheels to slip (e.g. in the case of aquaplaning or when accelerating over an unsurfaced, snowy or icy road), it reduces engine torque by reducing the throttle opening angle.
- If only one wheel slips (e.g. the inside wheel following acceleration or dynamic load changes), this is automatically braked without the driver touching the brake pedal. The resulting effect is similar to that of a self-locking differential.

The ASR maintains vehicle safety as much as possible and is particularly useful when grip is lost (icy multi-storey car park ramps are one example) and whenever the asphalt does not guarantee even friction.

Another not inconsiderable advantage of the ASR is the lower stress exerted on mechanical parts such as the differential and gearbox due to more effective control of low speed take-off and traction.

The ASR comes on automatically whenever the engine is started. To turn off the device, a switch is provided on the central console. When the ASR is active, a warning light on the control panel flashes. A control panel warning light comes on to indicate system faults or irregularities and when the system is off.



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## **The Alfa Romeo 147 GTA: The GTA Legend**

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During the Sixties, the Touring category was one of the areas of motor sport most followed by the public and consequently also by the Manufacturers. Cars derived from standard production models battled it out on the main circuits watched by crowds of fans. And the best drivers were not ashamed to race in this category. Great names included Jim Clark, John Whitmore and Andrea de Adamich.

Alfa Romeo wanted to be part of it all and the company decided to commission an up-and-coming workshop to prepare its cars: Autodelta, headed by Carlo Chiti, a world-famous designer from the Ferrari stable. The resulting marriage between engineering and motor sport has become the stuff of legend.

On February 18 1965, Autodelta's first creation was presented at the Amsterdam Motor Show. The car was a development of the Giulia GT, rechristened the GTA. The new car differed from its sister externally in the addition of front air intakes, handles and the triangular Autodelta badge. The 1600 Twin Spark twin shaft engine was vigorously reinforced to increase the power output from 106 to 115 bhp.

The GTA triumphed even on its first outings, though nothing less was expected of this winning car. Seven GTAs took the first seven places, for example, at the Jolly Club 4-hour race in Monza. With great drivers at the helm, the cars began to steal the thunder of the Lotuses that had previously reigned supreme.

The GTAs continued their domination of the European Challenge over the next few years.

In 1968, Alfa Romeo presented on-road and racing versions of the GTA 1300 Junior. The car looked the same as the standard production Junior, but was made leaner and meaner by long white bands along the sides. The racing version delivered 160 bhp (the on-road version has 103 bhp). It goes without saying that the new GTA swept the board as soon as it went out on the track.

Now there were two racing GTAs and their domination lasted until 1970, the year that saw the arrival of the GTAm, derived from the 1750 GT Veloce America. The body was completely transformed compared to the original version, as was the engine - a 230 bhp two litre unit. The car, with the Dutchman Tonie Hezemans at the wheel, won the European Touring Championship in 1970 and 1971, taking six first places in eight races.

In 1992, Alfa Romeo decided to return to the track with a version of the 155 Q4 prepared to Italian SuperTouring Championship standards and rechristened GTA. Like the others, this car retained very little of the standard production version: carbon wings, a rear spoiler that could be tilted to different angles, a 16 valve turbocharged engine capable of 400 bhp of power (compared with 186 bhp of the normal version) plus an intercooler cooled by nebulised air. The four team cars were driven by Larini, Francia, Nannini and Tamburini. The new GTA won 17 of the 20 races it was entered for and Larini won the title.

Once the season was over, the GTA cars stood aside to let other Alfa Romeo models take over. Until this year, when the legendary GTA tag reappeared on the powerful Alfa 156 cars raced in the FIA EURO TCC 2002 European Championship.



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## The Alfa Romeo 147 GTA: Technical Specification

<b>ENGINE</b>	
No. of cylinders, layout	6, in 60° V, front transverse
Bore x stroke (mm)	93 x 78
Capacity (cc)	3179
Compression ratio	10.5 : 1
Max. power output EC: kW (bhp)	184 (250)
at rpm	6200
Peak torque EC: Nm (kgm)	300 (30.6)
at rpm	4800
Timing control	2 OHC, per row, hydraulic tappets and variable valve timing (toothed belt), 4 valves per cylinder
Fuel feed	Bosch Motronic ME 7.3.1 electronic MPI with selective knock control
Ignition	static, electronic digital combined with injection, 2 knock sensors and 6 HT coils fitted in the head
<b>ELECTRICAL EQUIPMENT (12 V)</b>	
Battery: capacity (Ah)	60
Generator (A)	140
<b>TRANSMISSION</b>	
Drive	front
1st	3.500 : 1
2nd	2.235 : 1
3rd	1.520 : 1
4th	1.156 : 1
5th	0.971 : 1
6th	0.816 : 1
Reverse	3.545 : 1
Final drive ratio	3.733 : 1 (56/15)
<b>WHEELS</b>	
Wheels	17 inch cast alloy
Tyres	225/45 ZR 17
<b>STEERING</b>	
Steering box	rack and pinion with power steering
Turning circle between kerbs (m)	12.1
<b>SUSPENSION</b>	
Front	independent, dual high wishbone with double trailing arm and anti-roll bar mounted on ball joints
Rear	independent, MacPherson struts with transverse levers of different lengths anchored to aluminium cross beams, reaction arms, offset coil springs, and anti-roll bar mounted on ball joints and linked to the shock absorber
<b>BRAKES</b>	
Front: dia. (mm)	D 305 (ventilated disk)
Rear: dia. (mm)	D 276 (disc)



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### BODYWORK - DIMENSIONS

No. of seats / No. of doors	5 / 2
Length / Width (mm)	4213 / 1764
Height, unladen (mm)	1412
Wheelbase (mm)	2546
Front/rear track unladen (mm)	1516 / 1504
Boot capacity VDA (litres)	280

### CAPACITIES - WEIGHTS

Fuel tank (litres)	63
Kerb weight (DIN) (kg)	1360

### PERFORMANCE

Speed with engine at 1000 rpm in 6th	38.2
Top speed (km/h)	246
Acceleration (1 adult + 30 kg):	
- 0 to 100 km/h (s)	6.3
- 0 to 1000 m (s)	26.1

### FUEL CONSUMPTION

	Fuel consumption as per EC directive 1999/100 (l/100 km)
- urban cycle	18.1
- out-of-town cycle	8.6
- combined cycle	12.1
Emissions control	Euro 4
CO2 emissions (g/km)	287



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## The Alfa Romeo 147 GTA: Equipment

### SAFETY/SECURITY

ABS + EBD	✓
Alfa CODE	✓
ASR	✓
Central locking control with position lights verification	✓
Driver's and passenger airbag	✓
Fire prevention system	✓
Foglights	✓
Front sidebags	✓
Headlight washers	Optional
Volume-sensing and anti-lift antitheft system	✓
Window bag	✓
Xenon headlights	Optional

### MECHANICAL/INSTRUMENTS

17"x7"1/2 alloy wheels and 225/45 tyres (5-hole design)	✓
Body-coloured heated electric door mirrors	✓
Cruise control	✓
Electric sunroof	Optional
On-board instruments with multifunctional display and trip computer	✓

**INTERIOR/COMFORT/CONVENIENCE**

Bi-zone AirCon climate control system	✓
RDS radio with CD + 8 speakers + aerial	✓
Rear armrest	✓
Split folding rear seat (60/40)	✓
Sports seats in leather	Optional
Steering wheel with radio controls	✓
Steering wheel, Special leather, spokes in puma grey and gear lever knob	✓



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