

# The New Alfa Romeo 147: Technical Specification

|                               | Alfa Romeo 147<br>Twin Spark                                                                                                                                      |           | Alfa Romeo 147<br>Selespeed                                                                                                                                                                 |                                                                                                                                                                                                                      | Alfa Romeo 147<br>JTD M-JET                                                                    |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                               | Three door                                                                                                                                                        | Five door | Three door                                                                                                                                                                                  | Five door                                                                                                                                                                                                            | Five door                                                                                      |
| Engine                        |                                                                                                                                                                   |           |                                                                                                                                                                                             |                                                                                                                                                                                                                      |                                                                                                |
| Type                          | Transversely installed, water cooled, four cylinder engine with an iron block and an alloy head with twin camshafts, 16 valves and twin spark plugs per cylinder. |           |                                                                                                                                                                                             | Transversely installed, water cooled, four cylinder engine with an iron block and an alloy head with twin camshafts, 16 valves, Multijet common rail fuel injection, variable displacement turbocharger, intercooler |                                                                                                |
| Number of main bearings       | 5                                                                                                                                                                 |           |                                                                                                                                                                                             | 5                                                                                                                                                                                                                    |                                                                                                |
| Capacity (cc)                 | 1970                                                                                                                                                              |           |                                                                                                                                                                                             | 1910                                                                                                                                                                                                                 |                                                                                                |
| Compression ratio             | 10 : 1                                                                                                                                                            |           |                                                                                                                                                                                             | 18.0 : 1                                                                                                                                                                                                             |                                                                                                |
| Maximum power kW/rpm          | 110/6300                                                                                                                                                          |           |                                                                                                                                                                                             | 110/4000                                                                                                                                                                                                             |                                                                                                |
| Maximum torque Nm/rpm         | 181/3800                                                                                                                                                          |           |                                                                                                                                                                                             | 305/2000                                                                                                                                                                                                             |                                                                                                |
| Valve operation               | Twin overhead camshafts, four valves per cylinder, electro hydraulic variable valve timing                                                                        |           |                                                                                                                                                                                             | Double overhead camshaft, four valves per cylinder.                                                                                                                                                                  |                                                                                                |
| Fuel Feed                     | Bosch Motronic ME.7 electronic injection combined with ignition, variable geometry inlet manifold.                                                                |           |                                                                                                                                                                                             | Bosch EDC 16 C8 electronic engine control system                                                                                                                                                                     |                                                                                                |
| Ignition                      | Electronic, 4 HT coils, two spark plus per cylinder                                                                                                               |           |                                                                                                                                                                                             | ~                                                                                                                                                                                                                    |                                                                                                |
| Battery capacity (Ah)         | 60                                                                                                                                                                |           |                                                                                                                                                                                             | 60                                                                                                                                                                                                                   |                                                                                                |
| Alternator (A)                | 100                                                                                                                                                               |           |                                                                                                                                                                                             | 105                                                                                                                                                                                                                  |                                                                                                |
| Emission control              | Two pre catalysts in the engine bay, a main catalyst under the floor; three lambda probes.                                                                        |           |                                                                                                                                                                                             | ~                                                                                                                                                                                                                    |                                                                                                |
| Transmission                  |                                                                                                                                                                   |           |                                                                                                                                                                                             |                                                                                                                                                                                                                      |                                                                                                |
| Type                          | Front wheel drive, manual five speed gearbox                                                                                                                      |           | Front wheel drive, five speed sequential change gearbox with electro hydraulic actuator. Self changing city mode or manual gear selection via gear stick or steering column mounted paddles |                                                                                                                                                                                                                      | Front wheel drive, manual six speed gearbox                                                    |
| Clutch                        | Dry, single plate with thrust operation and co-axial hydraulic control                                                                                            |           | Dry single plate with thrust operation via electro hydraulic arms                                                                                                                           |                                                                                                                                                                                                                      | Dry, single plate with thrust operation and co-axial hydraulic control with dual mass flywheel |
| Plate diameter (mm)           | 230                                                                                                                                                               |           |                                                                                                                                                                                             | 235                                                                                                                                                                                                                  |                                                                                                |
| Friction ring dimensions (mm) | 230 x 155                                                                                                                                                         |           |                                                                                                                                                                                             | 230 x 155                                                                                                                                                                                                            |                                                                                                |
| Gear ratios 1 <sup>st</sup>   | 3.545 : 1                                                                                                                                                         |           | 3.545 : 1                                                                                                                                                                                   |                                                                                                                                                                                                                      | 3.800 : 1                                                                                      |
| 2 <sup>nd</sup>               | 2.238 : 1                                                                                                                                                         |           | 2.238 : 1                                                                                                                                                                                   |                                                                                                                                                                                                                      | 2.235 : 1                                                                                      |
| 3 <sup>rd</sup>               | 1.520 : 1                                                                                                                                                         |           | 1.520 : 1                                                                                                                                                                                   |                                                                                                                                                                                                                      | 1.360 : 1                                                                                      |
| 4 <sup>th</sup>               | 1.156 : 1                                                                                                                                                         |           | 1.156 : 1                                                                                                                                                                                   |                                                                                                                                                                                                                      | 0.971 : 1                                                                                      |
| 5 <sup>th</sup>               | 0.919 : 1                                                                                                                                                         |           | 0.919 : 1                                                                                                                                                                                   |                                                                                                                                                                                                                      | 0.763 : 1                                                                                      |
| 6 <sup>th</sup>               | ~                                                                                                                                                                 |           | ~                                                                                                                                                                                           |                                                                                                                                                                                                                      | 0.614 : 1                                                                                      |
| Reverse                       | 3.909: 1                                                                                                                                                          |           | 3.909: 1                                                                                                                                                                                    |                                                                                                                                                                                                                      | 3.545 : 1                                                                                      |
| Final drive                   | 3.866 : 1                                                                                                                                                         |           | 3.866 : 1                                                                                                                                                                                   |                                                                                                                                                                                                                      | 3.353 : 1                                                                                      |
| Wheels and Tyres              |                                                                                                                                                                   |           |                                                                                                                                                                                             |                                                                                                                                                                                                                      |                                                                                                |
| Wheels                        | Alloy 17 6.5J inch                                                                                                                                                |           |                                                                                                                                                                                             | Alloy 17 6.5J inch                                                                                                                                                                                                   |                                                                                                |
| Tyres                         | 215/45 WR17                                                                                                                                                       |           |                                                                                                                                                                                             | 215/45 WR17                                                                                                                                                                                                          |                                                                                                |

|                                      |                                                                                                        |           |           |           |               |
|--------------------------------------|--------------------------------------------------------------------------------------------------------|-----------|-----------|-----------|---------------|
| Spare wheel                          | TRS/80R15 95M                                                                                          |           |           |           | TRS/80R15 95M |
| Chassis and Suspension               |                                                                                                        |           |           |           |               |
| Steering                             | Power assisted rack and pinion                                                                         |           |           |           |               |
| Steering column                      | Three sections with two universal joints, collapsible, height and rake adjustable                      |           |           |           |               |
| Steering turns lock to lock          | 2.2                                                                                                    |           |           |           |               |
| Front suspension                     | Independent with double wishbones and an anti roll bar mounted on ball joints                          |           |           |           |               |
| Flexibility at the wheels            | 0.45 mm/kg                                                                                             |           |           |           |               |
| Wheel displacement upper/lower (mm)  | 80/80                                                                                                  |           |           |           |               |
| Rear suspension                      | Independent, MacPherson struts with lower side arms and an anti roll bar mounted on ball joints.       |           |           |           |               |
| Flexibility at the wheels            | 0.51 mm/kg                                                                                             |           |           |           |               |
| Wheel displacement upper/lower (mm)  | 80/115                                                                                                 |           |           |           |               |
| Shock absorbers                      | Pressurized hydraulic twin tube                                                                        |           |           |           |               |
| Brakes                               |                                                                                                        |           |           |           |               |
| System type and features             | Cross over with floating calipers, twin split hydraulic, 10” vacuum assist servo, ABS/ASR/VDC with EBD |           |           |           |               |
| Brakes - front                       | Ventilated disks, 284 mm                                                                               |           |           |           |               |
| Total lining area (mm <sup>2</sup> ) | 200 (4 x 50)                                                                                           |           |           |           |               |
| Brakes - rear                        | Solid disks, 251 mm                                                                                    |           |           |           |               |
| Total lining area (mm <sup>2</sup> ) | 100 (4 x 25)                                                                                           |           |           |           |               |
| Dimensions (mm)                      |                                                                                                        |           |           |           |               |
| Cd                                   | 0.32                                                                                                   |           |           |           |               |
| Length/width                         | 4223/1729                                                                                              |           |           |           |               |
| Height                               | 1442                                                                                                   |           |           |           |               |
| Wheelbase                            | 2546                                                                                                   |           |           |           |               |
| Track front/rear                     | 1512/1509                                                                                              |           |           |           |               |
| Over hang front/rear                 | 946/731                                                                                                |           |           |           |               |
| Turning circle                       | 11.5                                                                                                   |           |           |           |               |
| Internal dimensions                  |                                                                                                        |           |           |           |               |
| Waist width front/rear               | 1351/1308                                                                                              | 1351/1308 | 1351/1308 | 1351/1308 | 1351/1308     |
| Elbow width front/rear               | 1442/1412                                                                                              | 1442/1412 | 1442/1412 | 1442/1412 | 1442/1412     |
| Front seat height (sunroof)          | 981 (948)                                                                                              | 981 (948) | 981 (948) | 981 (948) | 981 (948)     |
| Rear seat height (sun roof)          | 940 (921)                                                                                              | 940 (921) | 940 (921) | 940 (921) | 940 (921)     |
| Brake to steering wheel              | 593                                                                                                    | 593       | 593       | 593       | 593           |
| Seat travel                          | 230                                                                                                    | 230       | 230       | 230       | 230           |
| Luggage compartment (l)              |                                                                                                        |           |           |           |               |
| Seats up                             | 292                                                                                                    | 292       | 292       | 292       | 292           |
| Seats folded                         | 1042                                                                                                   | 1042      | 1042      | 1042      | 1042          |
| Height to parcel shelf               | 480                                                                                                    | 480       | 480       | 480       | 480           |
| Maximum width                        | 1257                                                                                                   | 1257      | 1257      | 1257      | 1257          |
| Length                               | 824                                                                                                    | 824       | 824       | 824       | 824           |
| Capacities                           |                                                                                                        |           |           |           |               |
| Fuel tank (l)                        | 60                                                                                                     |           |           |           | 60            |
| Engine sump and filter               | 4.4                                                                                                    |           |           |           | 4.4           |
| Coolant                              | 7.2                                                                                                    |           |           |           | 7.2           |
| Gearbox and differential             | 2.01                                                                                                   |           |           |           | 2.0           |
| Brake fluid                          | 0.5                                                                                                    |           |           |           | 0.5           |
| Windscreen washer                    | 3.2                                                                                                    |           |           |           | 3.2           |
| Power steering                       | 1.2                                                                                                    |           |           |           | 1.2           |
| Weights                              |                                                                                                        |           |           |           |               |
| Kerb weight (kg)                     | 1250                                                                                                   | 1270      | 1250      | 1270      | 1310          |
| Distribution front/rear              | 815/435                                                                                                | 815/455   | 815/435   | 815/455   | TBC           |
| Fully laden weight                   | 1770                                                                                                   | 1790      | 1770      | 1790      | 1830          |
| Distribution front/rear              | 940/830                                                                                                | 940/850   | 940/830   | 940/850   | 990/980       |
| Max payload                          | 520                                                                                                    | 520       | 520       | 520       | 520           |
| Max towable weight (kg)              | 1300                                                                                                   | 1300      | 1300      | 1300      | 1300          |

| Performance                               |                                 |       |       |       |      |
|-------------------------------------------|---------------------------------|-------|-------|-------|------|
| Top speed (kmh)                           | 208                             | 208   | 208   | 208   | 208  |
| 0 – 100 kmh (secs)                        | 9.3                             | 9.3   | 9.3   | 9.3   | 8.8  |
| 0 – 1000 m (secs)                         | 30.2                            | 30.2  | 30.2  | 30.2  | 30.0 |
| Fuel Consumption and emissions (l/100 km) |                                 |       |       |       |      |
| EC Directive 93/116                       |                                 |       |       |       |      |
| Urban cycle                               | 12.1                            | 12.1  | 12.1  | 12.1  | 8.0  |
| Extra urban                               | 7                               | 7     | 7     | 7     | 4.7  |
| Combine cycle                             | 8.9                             | 8.9   | 8.9   | 8.9   | 5.9  |
| Co emissions                              | 210.9                           | 210.9 | 210.9 | 210.9 | 157  |
| Australian Fuel Figure                    |                                 |       |       |       |      |
|                                           | 8.9                             | 8.9   | 8.9   | 8.9   | 5.9  |
| Warranty                                  |                                 |       |       |       |      |
| Mechanical                                | Three Years/100,000 km          |       |       |       |      |
| Corrosion                                 | Six years/Corrosion perforation |       |       |       |      |
| Paint                                     | Three years                     |       |       |       |      |
| Roadside assistance                       | Three years                     |       |       |       |      |

## The New Alfa Romeo 147 - Features and Equipment

▲ Standard O Factory fit optional extra D Dealer fitted option NA Not available

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|--------------------------------------------------------------|------------------------------|--------------|-----------------------------|--------------|-----------------------------|
|                                                              | Three<br>door                | Five<br>door | Three<br>door               | Five<br>door |                             |
| Exterior                                                     |                              |              |                             |              |                             |
| Aerial, roof mounted ‘Stylus’ design                         | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Alloy wheels, ‘Supersport’ Design, 17 inch, 215/45           | ▲                            | ▲            | ▲                           | ▲            | NA                          |
| Alloy wheels, ‘Elegant’ Design, 17 inch, 215/45              | NA                           | NA           | NA                          | NA           | ▲                           |
| Central closing of all windows and, when fitted, sunroof     | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Central locking for doors and boot                           | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Colour matched bumpers, mirrors                              | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Door handles, aluminium                                      | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Door mirrors, electrically operated                          | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Door mirrors, heated                                         | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Show me the way home lights                                  | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Gas strut bonnet opening                                     | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Mini spare                                                   | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Paint, Iridescent Nuvola                                     | O                            | O            | O                           | O            | O                           |
| Paint, Metallic                                              | O                            | O            | O                           | O            | O                           |
| Rear window wiper with continuous and intermittent operation | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Sunroof, electric, six positions, anti pinch feature         | O                            | O            | O                           | O            | O                           |
| Tinted Windows                                               | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Interior                                                     |                              |              |                             |              |                             |
| AirCon with twin zone climate control system                 | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Audio system, Boot mounted mutichanger                       | D                            | D            | D                           | D            | D                           |
| Audio system, CD player, eight speakers                      | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Audio system, BOSE HiFi system                               | O                            | O            | O                           | O            | O                           |
| Clock, analogue                                              | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Coin/card holder, folding                                    | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Cruise control                                               | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Cup holder, folding                                          | ▲                            | ▲            | ▲                           | ▲            | ▲                           |
| Electric windows, Front                                      | ▲                            | ▲            | ▲                           | ▲            | ▲                           |

|                                                          |    |    |    |    |    |
|----------------------------------------------------------|----|----|----|----|----|
| Electric windows, Rear                                   | NA | ▲  | NA | ▲  | ▲  |
| Exterior temperature gauge                               | ▲  | ▲  | ▲  | ▲  | ▲  |
| Front armrest, adjustable with locker                    | ▲  | ▲  | ▲  | ▲  | ▲  |
| Front seat, pocket on squab                              | ▲  | ▲  | ▲  | ▲  | ▲  |
| Front seats, adjustable lumbar support                   | ▲  | ▲  | ▲  | ▲  | ▲  |
| Front seats, heated                                      | O  | O  | O  | O  | O  |
| Front seats, Sports Seats                                | ▲  | NA | ▲  | NA | NA |
| Front seats, position memory function                    | ▲  | NA | ▲  | NA | NA |
| Gear knob, leather                                       | ▲  | ▲  | ▲  | ▲  | ▲  |
| Glove box with fiction damped opening lid                | ▲  | ▲  | ▲  | ▲  | ▲  |
| Glove box, interior lights                               | ▲  | ▲  | ▲  | ▲  | ▲  |
| Glove box                                                | ▲  | ▲  | ▲  | ▲  | ▲  |
| Heated rear window, with timer                           | ▲  | ▲  | ▲  | ▲  | ▲  |
| Interior lights, dimmer                                  | ▲  | ▲  | ▲  | ▲  | ▲  |
| Instrument lighting, dimmer                              | ▲  | ▲  | ▲  | ▲  | ▲  |
| Instruments, partial black out of lighting               | ▲  | ▲  | ▲  | ▲  | ▲  |
| Interior lights, puddle light on bottom of doors         | ▲  | ▲  | ▲  | ▲  | ▲  |
| Interior lights, boot                                    | ▲  | ▲  | ▲  | ▲  | ▲  |
| Interior lights, from map reading                        | ▲  | ▲  | ▲  | ▲  | ▲  |
| Interior lights, rear twin individual                    | ▲  | ▲  | ▲  | ▲  | ▲  |
| Kick panel, aluminium trim panel                         | ▲  | ▲  | ▲  | ▲  | ▲  |
| Pollen filter, active carbon                             | ▲  | ▲  | ▲  | ▲  | ▲  |
| Rear armrest, centre                                     | ▲  | ▲  | ▲  | ▲  | ▲  |
| Remote interior boot release                             | ▲  | ▲  | ▲  | ▲  | ▲  |
| Steering wheel with Selespeed and radio controls         | NA | NA | ▲  | ▲  | ▲  |
| Steering wheel with radio controls                       | ▲  | ▲  | NA | NA | NA |
| Steering wheel, leather                                  | ▲  | ▲  | ▲  | ▲  | ▲  |
| Steering wheel, height and rake adjustable               | ▲  | ▲  | ▲  | ▲  | ▲  |
| Trip computer, multi function display                    | ▲  | ▲  | ▲  | ▲  | ▲  |
| Upholstery, Sports Cloth                                 | ▲  | ▲  | ▲  | ▲  | ▲  |
| Upholstery, Sports Leather                               | ▲  | NA | ▲  | NA | NA |
| Upholstery, Momo leather                                 | NA | ▲  | NA | ▲  | ▲  |
| Safety/Mechanical                                        |    |    |    |    |    |
| ABS Brakes with EBD (Electronic Brakeforce Distribution) | ▲  | ▲  | ▲  | ▲  | ▲  |
| Airbag, Driver's                                         | ▲  | ▲  | ▲  | ▲  | ▲  |
| Airbag, Front passenger                                  | ▲  | ▲  | ▲  | ▲  | ▲  |
| Airbag, Side                                             | ▲  | ▲  | ▲  | ▲  | ▲  |
| Airbag, Window                                           | ▲  | ▲  | ▲  | ▲  | ▲  |
| ASR (Automatic Slip Regulator)                           | ▲  | ▲  | ▲  | ▲  | ▲  |
| Children's safety locks on rear doors                    | NA | ▲  | NA | ▲  | ▲  |
| Fire Prevention System (FPS)                             | ▲  | ▲  | ▲  | ▲  | ▲  |
| Foglights, front                                         | ▲  | ▲  | ▲  | ▲  | ▲  |
| Foglights, rear                                          | ▲  | ▲  | ▲  | ▲  | ▲  |
| Head rest, centre third head rest                        | ▲  | ▲  | ▲  | ▲  | ▲  |
| Head rests, height adjustable front and rear             | ▲  | ▲  | ▲  | ▲  | ▲  |
| Headlight height adjustment, electric                    | ▲  | ▲  | ▲  | ▲  | ▲  |
| Headlight washers                                        | O  | O  | O  | O  | O  |
| Immobiliser with Alfa code protection                    | ▲  | ▲  | ▲  | ▲  | ▲  |
| Power Steering                                           | ▲  | ▲  | ▲  | ▲  | ▲  |
| Seat belt, centre rear lap and sash                      | ▲  | ▲  | ▲  | ▲  | ▲  |
| Seat belts, front pretensioners and load limiters        | ▲  | ▲  | ▲  | ▲  | ▲  |
| Seat belts, front, height adjustable                     | ▲  | ▲  | ▲  | ▲  | ▲  |
| VDC (Vehicle Dynamic Control)                            | ▲  | ▲  | ▲  | ▲  | ▲  |