



Volkswagen

Tiguan

Specifications



Features and Specifications

Safety and Security	132TSI Comfortline	162TSI Highline
Airbags		
Driver and front passenger airbags	S	S
Driver's knee airbag	S	S
Driver and front passenger side airbags	S	S
Curtain airbags, front and rear	S	S
Anti-theft		
Electronic engine immobiliser	S	S
Body		
Fully galvanised body with 12 year anti-corrosion perforation warranty	S	S
Door side impact protection	S	S
Rigid safety cell with front and rear crumple zones	S	S
Brakes		
Automatic flashing brake lights activated in emergency braking situation	S	S
Anti-lock Braking System (ABS)	S	S
Brake Assist	S	S
Electronic Brake-pressure Distribution (EBD)	S	S
Electro-mechanical parking brake	S	S
Auto hold function	S	S
Multi-collision brake	S	S
Child restraints		
Child seat top tether anchorage points, mounted on rear seat back (3)	S	S
ISOFIX child seat anchorage points, outer rear seats	S	S
Entry/warning reflectors in front and rear doors	S	S
Head restraints		
Front safety optimised head restraints, longitudinal and height adjustable	S	S
Rear head restraints height adjustable and removable (3)	S	S
Lighting		
Daytime driving lights, LED integrated in headlight housing	S	S
Front fog lamps with static cornering lights, mounted in lower bumper	S	S
Rear fog lamp	S	S
Rear registration plate light, LED	S	S
Rear tail lights, LED	S	—
Rear tail lights, Premium LED	—	S

Safety and Security (continued)	132TSI Comfortline	162TSI Highline
Locking		
Remote central locking	S	S
Keyless Access, keyless entry and starting system including starter button	S	S
2 stage unlocking (programmable)	S	S
Automatic locking after take-off (programmable)	S	S
One touch lock / unlock for driver	S	S
Child safety locks on rear doors	S	S
Fuel filler flap lock/unlock by remote, push to open	S	S
Seat belts		
Front height adjustable with pre-tensioners and belt force limiters	S	S
Outer rear seat belts with pre-tensioners and belt force limiters	S	S
Visual and acoustic warning for driver and front seat passenger seat belts not fastened	S	S
Visual indicator for rear seat passenger seat belt status	S	S
3 point seat belts for all passengers	S	S
Traction control		
Anti-Slip Regulation (ASR)	S	S
Electronic Differential Lock (EDL)	S	S
Electronic Stabilisation Program (ESP)	S	S
Extended Electronic Differential Lock (XDL)	S	S
4MOTION Active Control all-wheel drive	S	S

Exterior Equipment / Styling

Body enhancements		
Body coloured bumper bars, exterior mirrors and door handles	S	S
Black grain effect protective trim on lower front and rear bumpers, side sills and wheel arches	S	S
Chrome trim around window frames	S	S
Chrome lower body side mouldings	S	S
Chrome radiator grille highlights, top and bottom	S	S
Chrome radiator grille highlight, centre	—	S
Chrome headlight highlights, top and bottom	S	S
Lower air intake with chrome highlight	—	S
Lower air intake with black honeycomb insert	S	S
Exposed exhaust tail pipes, left	S	—
Trapezoidal chrome exhaust trims, left and right	—	S
Granite grey centre bumper trim, front and rear	S	S
Paint		
Metallic / Pearl Effect paint finish	O	O

Exterior Equipment / Styling (continued)	132TSI Comfortline	162TSI Highline
Roof		
Roof, rails, chrome	S	S
Tinted glass		
Dark red rear tail light clusters	—	S
Dark tinted rear side window and rear window glass, 65% light absorbing	—	S
Heat insulating tinted glass	S	S
Wheels		
Alloy wheels (Kingston) 18x7" with 235/55 R18 Airstop® tyres	S	—
Alloy wheels (Auckland) 19x7" with 235/50 R19 Airstop® tyres	—	S
Anti-theft wheel bolts	S	S
Low tyre pressure indicator	S	S
Weight and space saving spare wheel	S	S

Comfort and Convenience

Armrest		
Front centre armrest, adjustable with storage box and rear air outlets (2)	S	S
Rear seat centre armrest with cup holders (2)	S	S
Air conditioning		
Air conditioning, Air Care 3 zone automatic climate control with air cleaning function, allergen filter and residual heat mode (REST)	S	S
Air quality and humidity sensor with automatic air recirculation	S	S
Dust and pollen filter	S	S
Cruise control system including speed limiter (programmable)	S	S
Cup holders		
Front (2)	S	S
Rear (2) in rear centre armrest	S	S
Rear (2) in folding tables on front seat backrests	S	S
Bottle holders in front door pockets	S	S
Bottle holders in rear door pockets	S	S
Driver assistance systems*		
Driver Fatigue Detection system	S	S
Adaptive Chassis Control	—	S
Driving profile selection with 4MOTION Active Control	S	S
Front Assist with City Emergency Brake (City EB) and pedestrian monitoring functions	S	S
Lane Assist with Adaptive Lane Guidance	S	S
Manoeuvre braking, front and rear	S	S
Park Assist, parking bay and parallel parking assistance	S	S
Parking distance sensors, front and rear with acoustic warning and audio volume level reduction when sensor warning is activated	S	S
Optical Parking System (OPS) in radio/navigation display	S	S
Automatic kerb function when reversing, passenger's side exterior mirror	S	S
Rear View Camera (RVC Plus) with multi-angle views and dynamic guidance lines	S	S

Comfort and Convenience (continued)	132TSI Comfortline	162TSI Highline
Floor mats		
Front and rear, carpet	S	S
Grab handles		
Soft fold away grab handles, front and rear	S	S
Headlights		
Coming / leaving home function	S	S
Combined headlight and fog light switch	S	S
LED headlights for high and low beam with dynamic and static cornering lights, integrated LED daytime driving lights, automatic self-levelling	S	S
Low light sensor with automatic headlight function	S	S
In car entertainment and technology		
Discover Media audio and satellite navigation system 8" colour touch screen display with smartphone style HMI and proximity sensor, AM/FM radio, CD player and 2 x SD card slots for music and navigation data, 2D and 3D (bird's eye) map views, compatible with MP3, WMA and AAC music files, jpeg image viewer, car menu with convenience and service settings, security coded	S	—
Discover Pro audio and satellite navigation system 9.2" colour touch screen display with smartphone style HMI and proximity sensor, AM/FM radio, CD player and 2 x SD card slots for music, 10 gigabyte internal storage, 2D and 3D (bird's eye) map views, compatible with MP3, WMA and AAC music files, jpeg image viewer, car menu with convenience and service settings, security coded	—	S
App-Connect~ USB interface for Apple CarPlay®, Android Auto™ and MirrorLink® in front centre console	S	S
Audio, telephone, cruise control and Multi-Function Display controls mounted on steering wheel	S	S
Bluetooth® phone connectivity with contacts display, operation via touch screen audio unit or Multi-Function Display and Bluetooth® audio streaming	S	S
Media control	S	S
Speakers, front and rear (8)	S	S
USB ports (3), two Apple® compatible ports in front centre console, third charging port in rear	S	S
Voice operation, telephone and navigation system functions can be operated using voice commands	—	S
Instrumentation		
Speedometer & tachometer, electronic odometer and tripmeter, fuel and coolant gauges, time, ambient temperature, seat belt indicators, gearshift position, parking brake indicator, low washer fluid warning, driver assistance system indicators and white illumination	S	S
Comfort indicator function (1 x touch = 3 x flash)	S	S

~App-Connect is compatible for selected apps with the latest smartphone versions of iOS and Android, active data service, and connection cable (sold separately).

S Standard P Part of an Optional Package O Optional Extra — Not available

Comfort and Convenience (continued)

	132TSI Comfortline	162TSI Highline
Interior highlights		
Chrome trim on instrument cluster, air vent surrounds and gearshift lever surround	S	S
Decorative inlays, "Titanium Silver" to dashboard and door trims	S	—
Decorative inlays, "Dark Grid" to dashboard and door trims	—	S
Front door sill scuff plates in aluminium finish, illuminated	—	S
Gearshift knob with leather and aluminium finish	S	S
Interior lighting		
With time delay	S	S
Front reading lights (2) and rear passenger reading lights (2) with illuminated buttons	S	S
LED ambient lighting in door trim inserts	P	S
Lighting in driver and front passenger foot well	S	S
Luggage compartment		
Electrically operated automatic opening and closing of the tailgate with Easy Open and Easy Close functions	S	S
Load restraining hooks	S	S
Luggage compartment light	S	S
Luggage cover, removable	S	S
Luggage floor net	S	S
Shopping bag hooks	S	S
Storage dividers in side lining	S	S
Variable luggage compartment floor level	S	S
12 volt socket	S	S
Mirrors		
Automatic dimming interior rear-view mirror	S	S
Electrically heated and adjustable exterior mirrors	S	S
Electrically foldable exterior mirrors with environment lighting and automatic kerb function when reversing, passenger's side	S	S
Exterior mirrors with integrated LED turn indicators	S	S
Power steering		
Electro-mechanical, vehicle speed and steering input sensitive	S	S

Comfort and Convenience (continued)	132TSI Comfortline	162TSI Highline
Seating		
Comfort front seats	S	—
Comfort sport front seats	P	S
Electric adjustment for front seats with 3 position memory function	—	S
Foldable front passenger seat backrest, serving as a table and load through provision	S	—
Folding tables on front seat backrests	S	S
Heated front seats	P	S
Height adjustment for front seats	S	S
Lumbar adjustment for driver's seat, manually adjustable	S	—
Lumbar adjustment for driver's seat, electrically adjustable	P	S
Lumbar adjustment for front passenger seat, manually adjustable	S	—
Lumbar adjustment for front passenger seat, electrically adjustable	—	S
Split folding rear seat backrest (40/20/40)	S	S
Rear seat backrest with angle adjustment and longitudinally sliding seat base	S	S
Rear seat backrest remote release	S	S
Rear seat centre armrest with cup holders (2)	S	S
Steering wheel		
3 spoke leather covered flat bottomed steering wheel	S	S
Audio, telephone, cruise control and Multi-Function Display controls	S	S
Gearshift paddles	—	S
Height and reach adjustable steering wheel	S	S
Storage		
Centre console storage compartment under armrest	S	S
Centre dashboard top compartment with lid	S	S
Not fitted in combination with the optional Sound & Vision package		
Glove compartment with cooling and illumination	S	S
Tray and 12 volt socket in console	S	S
Drawer under driver's seat	S	—
Not fitted in combination with the optional Luxury package		
Drawer under front passenger seat	S	—
Driver's side dashboard compartment with lid	S	S
Front door compartments with bottle holder	S	S
Front seat backrest storage pockets	S	S
Net on front passenger's side of centre console	S	S
Overhead roof console with storage compartments	S	S
Not fitted in combination with the optional Luxury package or panoramic glass sunroof		
Rear door compartments with bottle holder	S	S

Comfort and Convenience (continued)	132TSI Comfortline	162TSI Highline
Sunroof		
Panoramic glass sunroof		
Electrically slide and tilt adjustable front half section		
Integrated wind deflector and electrically operated (perforated) sunblind	P	O
Please note: The overhead storage compartments are not fitted in combination with this option		
Transmission		
Gearshift recommendation indicator	S	S
7 speed Direct Shift Gearbox (DSG) with sport mode and Tiptronic function	S	S
Trip computer		
Multi-Function Display (MFD Premium)		
Colour display and screen transitions with animations – driving time, trip length, average and current speed, average and current fuel consumption, distance till empty, speed warning function, vehicle status, audio, telephone, navigation and convenience menus	S	S
Upholstery		
Comfort cloth seat upholstery	S	—
Vienna leather appointed upholstery	P	S
Leather appointed seats has a combination of genuine and artificial leather, but are not wholly leather		
Vanity mirrors		
Driver's and passenger's side vanity mirrors in sun visor with ticket holder	S	S
Illuminated on driver's and passenger's side	S	S
Wipers		
2 speed aero wipers with wash/wipe	S	S
Rain sensor	S	S
Rear window with wash/wipe and intermittent wipe	S	S
Warning light for low washer fluid level	S	S
Windows		
Power front /rear, with roll-back function and one-touch up-down	S	S
Remote operated convenience close and open feature (programmable)	S	S
12V socket		
Centre console, front and rear	S	S
Luggage compartment	S	S

Optional Packages	132TSI Comfortline	162TSI Highline
Driver Assistance package*		
Adaptive Cruise Control (ACC) Side Assist, lane changing assistant with Rear Traffic Alert Emergency Assist Traffic Jam Assist	O	S
Sound & Vision package*		
Active Info Display, high resolution 10.25" digital instrument colour display screen with customisable displays Dynaudio Excite Premium Sound System with 9 speakers, 400W total power output, digital 16-channel amplifier and subwoofer Area View, front, rear and side cameras to provide 360 degree exterior view Ambient Interior lighting (already standard on Highline)	O	O
Luxury package		
Comfort sports front seats Vienna leather appointed upholstery# Panoramic glass sunroof, electrically slide and tilt adjustable front half section, integrated wind deflector and electrically operated (perforated) sunblind Electric adjustment for driver's seat with 3 position memory function Heated front seats Lumbar adjustment for driver's seat, electrically adjustable Please note: The overhead storage compartments and driver's undersea storage drawer are not fitted in combination with this optional package	O	—
R-Line package		
Alloy wheels (Suzuka) 20x8.5" with 255/40 R20 tyres Black headlining and pillar trim Carpet floor mats and centre armrest with decorative stitching in Crystal Grey Chrome tail pipe trims Decorative inlays, "Black Lead Grey" to dashboard and door trims Design strip with R-Line logo on the front side panels and front doors Front bumper in R design with gloss black air intakes Lower body side extensions in body colour with black grained wheel arch extensions Progressive steering Rear bumper with sports diffuser in gloss black R-Line badge in radiator grille R-Line logo on infotainment start screen R-Line multi-function leather covered sports steering wheel with decorative stitching in Crystal Grey and R-Line logo R-Line rear spoiler Stainless steel finish accelerator and brake pedals Stainless steel finish front door sill scuff plates with R-Line logo, illuminated Vienna leather appointed seat upholstery# for R-Line with R-Line logo and decorative stitching in Crystal Grey Please note: The R-Line package is only available with selected exterior colours. Please refer to the Colour Combinations section of the specification sheet	—	O

*Safety technologies are designed to assist the driver, but should not be used as a substitute for safe driving practices. #Leather appointed seats has a combination of genuine and artificial leather, but are not wholly leather.

S Standard P Part of an Optional Package O Optional Extra — Not available

Technical Specifications

	132TSI Comfortline	162TSI Highline
Engine	2.0 litre TSI BlueMotion Technology	2.0 litre TSI BlueMotion Technology
Type	4 cylinder inline turbocharged direct injection petrol with engine Start/Stop system*	4 cylinder inline turbocharged direct injection petrol with engine Start/Stop system*
Installation	Front transverse	Front transverse
Cubic capacity, litres/cc	2.0/1984	2.0/1984
Bore/stroke, mm	82.5/92.8	82.5/92.8
Max power, kW @ rpm	132 @ 3900-6000	162 @ 4500-6200
Max torque, Nm @ rpm	320 @ 1500-3940	350 @ 1500-4400
Compression ratio	11.65:1	9.6:1
Fuel system	Direct injection and intake manifold injection	Direct injection and intake manifold injection
Ignition system	Electronic	Electronic
Exhaust emission control	Three-way catalytic converters with Lambda control; Exhaust gas recirculation	Three-way catalytic converter with Lambda control; exhaust gas recirculation
Fuel type (recommended)	Premium unleaded 95 RON minimum	Premium unleaded 95 RON minimum
Transmission	7 Speed DSG	7 Speed DSG
Driven wheels	4MOTION all-wheel drive	4MOTION all-wheel drive
Performance#		
0 – 100 km/h, seconds	7.7	6.5
Fuel Consumption**		
Combined, L/100km	7.5	8.1
Urban, L/100km	9.2	10.0
Extra Urban, L/100km	6.5	7.0
CO ₂ emission g/km	173	186
Fuel tank capacity, L	60	60

*The Start/Stop system is designed to reduce fuel consumption and CO₂ emissions. It achieves this by automatically switching off the engine while the vehicle is stationary and then starting it again automatically when the driver wants to drive off. There are certain operating conditions where the Start/Stop system is deactivated (e.g. during engine warm-up), please refer to the owner's manual for full operating information.

#Please note figures are sourced from overseas data where equipment levels by model variant may vary.

** Fuel consumption figures according to Australian Design Rule (ADR) 81/02 derived from laboratory testing. Factors including but not limited to driving style, road and traffic conditions, environmental influences, vehicle condition and accessories fitted, will in practice in the real world lead to figures which generally differ from those advertised. Advertised figures are meant for comparison amongst vehicles only.

Technical Specifications

	132TSI Comfortline	162TSI Highline
Running gear		
Suspension	Independent, MacPherson struts with lower A-arms. Anti-roll bar.	
Front axle	Independent, four-link with coil springs. Anti-roll bar.	
Rear axle	Independent, four-link with coil springs. Anti-roll bar.	
Steering	Electro-mechanical power assisted rack & pinion steering.	
Brake systems	Anti-lock Braking System (ABS) with Electronic Brake-pressure Distribution (EBD), Brake Assist and Electronic Stabilisation Program (ESP). Brake energy recuperation	
Brakes	Ventilated Discs	
Front	Discs	
Rear	Discs	
Turning circle m	11.5	
Weights		
	7 Speed DSG	7 Speed DSG
Tare mass, kg	1600	1637
Towing capacity kg*		
Braked	2500	2500
Unbraked	750	750
Maximum tongue loading		
	132TSI	162TSI
Total vehicle occupants		
- Up to 2 (on 1 st seat row)	200kg	200kg
- Up to 4 (2 on 1 st and 2 on 2 nd seat row)	100kg	100kg
- Up to 5	70kg	60kg
Exterior Dimensions		
Overall length mm	4486	4486 (4490)
Width mm	1839	1839 (1859)
Height mm	1658	1658
Wheelbase mm	2681	2681
Track mm		
Front	1582	1576 (1586)
Rear	1572	1566 (1576)
Running clearance ^Δ mm	201	201

Figures in brackets relate to the optional R-Line package

*Towing capacities are applicable to Volkswagen Genuine Accessory Tow Bar. Towing capacity figures are maximum figures and actual towing capacity depends on factors including the laden mass of the vehicle, driving conditions and fitment of any accessories. Volkswagen Group Australia does not endorse or will not be held liable for any claim, loss or damage arising from the use or fitment of electronic trailer brakes.

Δ Running clearance measurement may vary with wheel size, tyre pressure and tread depth.

Technical Specifications

	132TSI Comfortline	162TSI Highline
Luggage Area Dimensions#	7 Speed DSG	7 Speed DSG
Volume L		
Rear seat upright	615	615
Rear seat folded	1655	1655
Floor length mm		
Rear seat upright	985	985
Rear seat folded	1746	1746
Floor width mm		
Narrowest point	1004	1004
Load height mm		
To luggage cover	675	675

Please note figures are sourced from overseas data where equipment levels by model variant may vary
 ^The 110TSI Comfortline is available exclusively with the 6 speed DSG transmission

Colour Combinations

Seat Upholstery	Exterior Colours					
	Pure White	Indium Grey Metallic	Tungsten Silver Metallic	Atlantic Blue Metallic	Ruby Red Metallic	Deep Black Pearl Effect
132TSI Comfortline						
Black comfort cloth seat upholstery	S	S	S	S	S	S
Black Vienna leather appointed seat upholstery*	P	P	P	P	P	P
162TSI Highline						
Black Vienna leather appointed seat upholstery*	S	S	S	S	S	S
Storm Grey Vienna leather appointed seat upholstery*	S	S	S	S	S	S
Black R-Line Vienna leather appointed seat upholstery*	P	P	P	—	—	P

Please note Metallic (M) and Pearl Effect (PE) paint are optional at extra cost.

* Leather appointed seats have a combination of genuine and artificial leather, but are not wholly leather.

Glossary

4MOTION all-wheel drive

An all wheel drive system that provides the best possible traction at all road speeds, in all weather and road conditions. An electronically controlled multi-plate clutch directs torque to the axle with the best traction.

When operating under a relatively low load or when coasting, power is primarily distributed to the front axle, thus saving fuel. However, the rear axle can be variably engaged in fractions of a second whenever necessary, even before any wheel starts to slip and therefore reducing the potential for a loss of traction. The wheels of the Tiguan are prevented from spinning even when driving off and accelerating.

Activation of the multi-plate clutch is based primarily on the engine torque demanded by the driver. In parallel, a system within the all-wheel drive control unit evaluates such parameters as wheel speeds and steering angle.

Adaptive Cruise Control (ACC)*

Adaptive Cruise Control (ACC) is an extension of the conventional cruise control system with advanced capabilities based on a radar sensor. When ACC is activated, the vehicle automatically brakes and accelerates to a speed and distance set by the driver.

If the Tiguan approaches a slower vehicle, the ACC brakes the car to the same speed and maintains the pre-selected distance. Even when a vehicle pulls into the same lane in front of you or slows, your vehicle is automatically decelerated to the pre-selected distance. If the vehicle ahead moves out of your lane, the Tiguan then accelerates up to the pre-set desired speed.

Deceleration of the vehicle may take place via intervention in the engine management system. If deceleration via engine torque is not sufficient, brake intervention takes place, braking the vehicle to a standstill if the traffic situation necessitates in vehicles equipped with a DSG transmission. ACC can be reactivated automatically by depressing the accelerator pedal.

The dynamics of the ACC system can be individually varied by selecting one of the driving programs from the driver profile selector.

Adaptive Cruise Control (ACC) cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and must monitor the speed and distance in relation to other vehicles. The ACC system should not be used on winding roads or in adverse weather conditions such as heavy rain.

Anti-lock Braking System (ABS)

When braking, wheel speed sensors measure the road wheel speed and should one or more wheels start to lock the ABS system reduces brake pressure to that wheel. This prevents the wheels from locking during heavy or emergency braking, enabling the vehicle to remain steerable.

Anti-Slip Regulation (ASR)

ASR is a switchable traction control system that prevents the wheels from spinning under acceleration by reducing engine torque.

Auto Hold function

As soon as the vehicle comes to a complete stop, the ABS hydraulic unit stores the vehicle's final braking pressure. So even when you take your foot off the brake pedal, all four wheels' brakes remain applied, providing increased comfort in stationary traffic. This function is released automatically when you drive off again.

*Optional equipment on selected models

Brake Assist

During emergency braking, Brake Assist aids the driver by increasing the brake pressure automatically to a level exceeding the locking limit. The ABS is thus quickly brought into the operating range, which enables maximum vehicle deceleration to be achieved.

Direct Shift Gearbox (DSG)

DSG is a manual gearbox in which the gearshifts are controlled electronically. What makes the DSG unique is that it has 2 separate gear sets operated by 2 clutches. The benefit of 2 gear sets and 2 clutches is that one gear set and clutch is engaged driving the vehicle with the second disengaged clutch having already pre-selected the next gear awaiting for power to be transferred. As the next gear has already been pre-selected prior to power being applied, the gear change only takes 3-4 100ths of a second. There is virtually no interruption to power, traction or acceleration. The DSG also offers Tiptronic gear selection and sports mode.

Driving Profile Selection with 4MOTION Active Control^

Driving profile selection provides the driver with a wide-ranging choice of settings that can be made to the vehicle according to the driver's preferences. The driver has the option of choosing between the following driving profiles: Normal, Sport, Eco, Comfort (with optional R-Line) and Individual. The Normal profile offers a comfortable but dynamic driving style. Sport provides faster response of the accelerator pedal, sportier damping and steering, while the DSG switches to Sport mode. Eco mode has been designed to enhance fuel efficiency by including coasting function and by adapting engine performance, earlier gearshift points and consumption-optimised control of the air conditioning system. Comfort mode offers a more relaxed and comfortable driving experience, primarily through the softer suspension setting of the adaptive chassis control. The Individual setting allows the driver to separately set various parameters including steering, engine, Adaptive Cruise Control (ACC) and air conditioning.

4MOTION Active Control provides for the convenient selection of on-road and off-road driving profiles for model equipped with 4MOTION by means of a rotary dial. Rotating the dial selects one of four special all-wheel drive modes: Snow, On-road, Off-road (automatic configuration of the off-road parameters) and Off-road individual (variable settings).

Electronic Brake-pressure Distribution (EBD)

Electronic, more sophisticated means of regulating the ratio of front/rear brake pressure. Settings are varied according to driving and load conditions to ensure each wheel is braked to the optimum extent.

Electronic Differential Lock (EDL)

EDL improves driving and steering characteristics when accelerating on road surfaces where each wheel has a different degree of traction. The system operates automatically and is combined with the ABS system. Using the ABS wheel sensors, EDL monitors the speed of the individual driving wheels. When a difference in driving wheel speed is detected (i.e. when one wheel starts to spin due to differences in road surfaces, e.g. due to water or dirt) the system brakes the spinning wheel, transferring engine power to the wheel with the best traction.

Glossary

Electronic Stabilisation Program (ESP)

ABS, EDL and ASR traction control systems are integrated into the Electronic Stabilisation Program (ESP). In short, ESP helps ensure that the vehicle goes where you steer it even in extreme driving conditions. The ESP system constantly compares the actual movement of the vehicle with pre-determined values and should a situation arise where the vehicle starts to skid, ESP will apply the brakes to individual wheels and automatically adjust the engine's power output to correct the problem. ESP prevents the vehicle from losing control when trying to avoid an accident, for example. It also reduces the effects of understeer or oversteer.

Emergency Assist*

Emergency Assist monitors the driving characteristics and recognises, within the limits of the system, if the driver suddenly becomes incapable of driving (due to the vehicle not being controlled).

Emergency Assist detects a lack of activity on the part of the driver and issues repeated visual and acoustic warnings and initiates a quick jolt of the brakes to request the driver to take control of the vehicle.

If the driver remains inactive, the system automatically controls acceleration, braking and steering to slow the vehicle down and keep it in the lane. If there is sufficient stopping distance, the system decelerates the vehicle to a complete stop and switches on the electronic parking brake automatically.

When Emergency Assist is actively controlling the vehicle, the hazard warning lights are switched on and the vehicle performs a slight snaking motion within its lane to warn other road users. Ideally this will prevent a collision, or at least reduce its severity.

Emergency Assist cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and must monitor the speed and distance in relation to other vehicles. Emergency Assist utilises both the Adaptive Cruise Control (ACC) and Lane Assist driver assistance systems. The ACC system should not be used on winding roads or in adverse weather conditions such as heavy rain. The system will not work if there are no recognisable lane markings. The camera vision can be reduced by rain, snow, heavy spray or oncoming lights. This and vehicles in front of you can lead to the lane markings not being recognised by the Lane Assist system.

Extended Electronic Differential Lock (XDL)

XDL is an extension of the Electronic Differential Lock (EDL) function. When cornering, XDL responds to the load relief at the driven wheel/s on the inside of a corner. The ESP hydraulics are used for the XDL to apply pressure to the wheel on the inside of the corner in order to prevent wheel spin. This improves traction and reduces the tendency to understeer. As a direct result of the one-sided and precise braking pressure, cornering is sportier and more accurate.

Fatigue Detection

The driver Fatigue Detection system automatically analyses the driving characteristics and indicate possible fatigue, recommends that the driver takes a break. The system continually evaluates steering wheel movements along with other signals in the vehicle on motorways and others roads at speeds in excess of 65km/h, and calculates a fatigue estimate. If fatigue is detected, the driver is warned by information in the Multi-function Display and an acoustic signal. The warning is repeated after 15 minutes if the driver has not taken a break.

Fatigue Detection cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and therefore determining whether or not they are fit to drive. A driving time of 15 minutes is required in order to assess the driver correctly. The functionality of the system is restricted given a sporty driving style. winding roads and poor road surfaces.

Front Assist with City Emergency Brake (City EB) and Pedestrian Monitoring functions

The Front Assist ambient traffic monitoring system uses a radar sensor to detect critical distance situations and thus help to shorten the braking distance, reducing the risk of a rear-end collision.

The traffic ahead is monitored constantly by the radar at the front. If a vehicle is detected ahead of you in the lane, the distance and the speed relative to it are calculated. If the gap is closing too fast, Front Assist initially warns the driver by means of an audible as well as a visual signal. At the same time, the brake pads are brought into contact with the brake discs and the sensitivity of the Brake Assist is increased. This primes the braking system for a possible emergency stop. Furthermore, an automatic jolt of the brakes warns the driver of the danger. If the driver also fails to react to the warning jolt, Front Assist brakes automatically, helping to avoid a collision or reduce the severity of the accident.

The City Emergency Brake (City EB) function is a radar based emergency braking system designed to help a driver avoid a low-speed crash or to reduce its severity. At vehicle speeds below 30km/h, City EB monitors the area ahead of the car for vehicles which might present a threat of collision. If a collision is likely, City Emergency Braking first pre-charges the brakes and makes the emergency Brake Assist system more sensitive: if the driver should notice the risk, the car is ready to respond more quickly to their braking action. However, if the driver still takes no action and a collision becomes imminent, City Emergency Braking independently applies the brakes very hard. If the driver intervenes to try to avoid the accident, either by accelerating hard or by steering, City EB will deactivate and allow the driver to complete the avoidance manoeuvre.

Pedestrian Monitoring is an extension of the Front Assist monitoring system featuring the City Emergency Brake. The system uses a radar sensor in the radiator grille to monitor the area in front of the vehicle and within the limits of the system, register certain situations, for example a pedestrian stepping onto the road suddenly. The system then gives an immediate acoustic and visual signal to warn the driver. If the driver does not brake, the system initiates a jolt of the brake as a warning about the critical situation, while at the same time preparing for hard braking. If the driver fails to react, the system automatically performs emergency braking, within system limits. Ideally this will prevent a collision, or at least reduce its severity

Front Assist with City Emergency Brake (City EB) and Pedestrian Monitoring cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and must monitor the speed and distance in relation to other vehicles..

Glossary

Lane Assist

Lane Assist is a lane departure warning system that is designed to help reduce the likelihood of the vehicle leaving the road or crossing into an oncoming lane and therefore the risk of accident as a result of driver distraction or a lapse in concentration.

The Lane Assist system monitors the road ahead with the aid of a camera (located near the interior rear-view mirror) which recognises lane markings and evaluates the position of the vehicle. If the vehicle starts to leave the lane, the Lane Assist system takes corrective steering action. If this is not sufficient the driver is warned about the situation by a steering vibration and is asked to take over the steering. Additionally, if no active steering movements by the driver are recognised for longer than approximately 8 seconds, a message will appear in the Multi-Function Display in conjunction with a warning tone. The corrective steering function can be overridden by the driver at any time and the system does not react if the turn indicator is set before crossing a lane marking.

When adaptive lane guidance* is active and the system detects both lane markings to the left and right of the vehicle, the function provides permanent assistance while the vehicle is in motion. The system adopts the preferred position within the lane in which the vehicle is travelling. For example, if the vehicle is being driven slightly off-centre in the lane, the system will learn to adopt the new position within a short period of time.

Lane Assist cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and therefore staying in the lane at all times. The system will not work if there are no recognisable lane markings. The camera vision can be reduced by rain, snow, heavy spray or oncoming lights. This and vehicles in front of you can lead to the lane markings not being recognised by the Lane Assist system. The Lane Assist system does not activate at a vehicle speed of less than 65km/h.

Manoeuvre braking

Manoeuvre braking assists the driver to avoid or reduce damage in a potential collision by initiating emergency braking. It supports the driver during forward and reverse manoeuvring in a speed range of a maximum 10 km/h. If the risk for an accident is recognised, emergency braking is initiated to minimise possible damage.

Manoeuvre braking cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle. The object must be detected by the sensors. If the driver notices a risk that pedestrians, other vehicles or objects could be damaged they need to react accordingly and stop the vehicle.

Multi-collision brake

The multi-collision brake has been designed to provide effective assistance for the driver in the moments after an accident. Multi-collision brake triggers automatic controlled braking once an initial collision has been detected so as to reduce the intensity of further accidents after a collision and can help prevent follow-on collisions with oncoming traffic.

The triggering of the multi-collision brake is based on a collision being detected by the airbag sensors. The ESP control unit limits the deceleration of the vehicle by the multi-collision brake to a defined value and vehicle speed. The vehicle can still be controlled by the driver, even when automatic braking is taking place. The driver can interrupt the multi-collision braking at any time by accelerating or braking even more strongly.

Park Assist

The third generation Park Assist system actively helps the driver when entering or reversing into 90° parking bays, as well as reversing into and driving out of parallel parking spaces. The system works by using sensors mounted either side of the front and rear bumpers together with parking distance sensors front and rear. To park, the driver simply presses the Park Assist button to select the type of parking manoeuvre and uses the appropriate indicator as the car slowly passes the potential parking space. Sensors scan the size of the parking space as the car is driven past and the driver is alerted if the parking space is big enough. If there is sufficient space, the driver stops the car, selects the correct gear and lets go of the steering wheel.

Park Assist will alert the driver of the intended path and subsequently the appearance of obstacles in the Multi-Function Display, within the driver's field of vision. Park Assist then actively supports the driver by taking over the steering control and parks the vehicle in the available space using the ideal course, if necessary with several moves. The driver can however take over the control of the steering at any time and end the automatic parking procedure.

Park Assist cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle. If the driver notices a risk that pedestrians, other vehicles or objects could be damaged or if they are uncertain of the risk, they will need to react accordingly and stop the vehicle, ending the function.

Side Assist with Rear Traffic Alert*

Side Assist, is a lane change assistant that detects vehicles on the right and left hand side of the lane, in the blind spot and those vehicles coming nearer behind. The system informs with a warning light in the exterior mirror whenever a detected vehicle is close and a lane change would be dangerous. If the driver sets the indicator, the warning light begins to flash. Rear Traffic Alert warns the driver of approaching traffic at the rear of the car when reversing via an audible warning followed by a visual message in the Optical Parking System (OPS).

Side Assist also works in conjunction with the Lane Assist system. If another vehicle is in the blind spot during a lane change, the dual assist system warns the driver by means of flashing LEDs in the right-hand or left-hand exterior mirror and by vibrations on the steering wheel. It also supports the driver by means of a corrective steering intervention. This procedure occurs regardless of the state of the turn indicators.

Side Assist with Rear Traffic Alert cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and must monitor the speed and distance in relation to other vehicles.

Traffic Jam Assist*

In congested traffic situations, Traffic Jam Assist makes driving significantly more comfortable and helps to avoid typical rear-end collision accidents. The Traffic Jam Assist function combines the driver assistance systems Adaptive Cruise Control (ACC) and Lane Assist with adaptive lane guidance.

In a speed range of 0-60km/h, the system automatically controls acceleration, braking, steering and if required, will decelerate to a stop behind a vehicle that is stopping.

Traffic Jam Assist cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle and must monitor the speed and distance in relation to other vehicles. Traffic Jam Assist has been developed for use only on motorways.



162TSI Highline with optional R-Line Package

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