

Volkswagen Golf – Performance Range



Safety and Security		GTI	R
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	Alarm system with interior monitoring and tilt sensor	S	S
	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
	Red brake callipers	S	-
Black brake callipers, front with R logo	-	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
First aid kit		A	A
Head restraints	Front safety optimised head restraints, height adjustable	S	S
	Rear head restraints height adjustable (3)	S	S
Lighting	Daytime driving lights, LED integrated in headlight housing	S	S
	Front fog lights, LED mounted in lower bumper	S	-
	Fog lamp, rear	S	S
	Rear registration plate light, LED	A	S
	Rear tail lights, LED	-	S
Locking	Remote central locking with SAFELOCK deadlock mechanism	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
	Visual and acoustic warning for driver and front seat passenger seat belts not fastened	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 all-wheel drive	-	S

Volkswagen Golf – Performance Range



Exterior Equipment / Styling		GTI	R	
Body enhancements	Body coloured bumper bars and door handles	S	S	
	Body coloured exterior rear view mirrors	S	-	
	Matte chrome finish exterior rear view mirrors	-	S	
	Body coloured lower front spoiler with black aerodynamic louvres	S	-	
	Body coloured lower front spoiler with chrome strip and gloss black inserts	-	S	
	Exposed chrome exhaust tail pipes, left and right	S	-	
	Exposed dual chrome exhaust tail pipes, left and right	-	S	
	Radiator grille with red/chrome strip and GTI nameplate	S	-	
	Radiator grille with chrome strip and R nameplate	-	S	
	Lower air intake and radiator grille with black honeycomb inserts	S	-	
	Lower air intake and radiator grille with gloss black inserts	-	S	
	Side sill panel extensions in black finish	S	-	
	Side sill panel extensions in body colour	-	S	
	Rear bumper with black sports diffuser and honeycomb insert	S	-	
	Rear bumper with gloss black sports diffuser	-	S	
	Rear roof spoiler with black aerodynamic extensions	S	S	
Rear hatch protective trim in chrome	A	A		
Paint	Metallic / Pearl Effect paint finish	O	S	
Protection	Bonnet protector	A	A	
	Car cover	A	A	
	Loading sill protection, clear film or stainless-steel look guard	A	A	
	Slimline weather shields, front and rear	A	A	
	Door sill protection film, black with silver highlights	A	A	
	Mudflaps, front	A	-	
	Mudflaps, rear	A	-	
Roof	Roof bars	A	A	
	Bicycle, kayak, ski, surfboard and snowboard holders	A	A	
	Luggage box range – 340, 460 litre volumes	A	A	
Tinted glass	Darkened rear tail light clusters	S	S	
	Dark tinted rear side window and rear window glass, 65% light absorbing	-	S	
	Heat insulating tinted glass	S	S	
Tow bar	Tow bar with 7-pin flat trailer connector and removable tongue	A	-	
Wheels	Alloy wheels (Austin) 18x7½" with 225/40 R18 tyres	S	-	
	Alloy wheels (Cadiz) 19x8" with 235/35 R19 tyres	-	S	
	Alloy wheels (various designs) 18" and 19"	A	-	
	Please consult your Volkswagen Dealer for correct wheel and tyre fitment by model			
	Anti-theft wheel bolts	S	S	
	Valve caps with Volkswagen emblem	A	A	
	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) and load through provision	S	S	
Air conditioning	Air conditioning, Air Care dual zone automatic climate control	S	S	
	Air quality and humidity sensor with automatic air recirculation	S	S	
	Air cleaning function and allergen filter	S	S	
Cruise control	Cruise control	S	S	
	Speed limiter (programmable)	S	S	
Cup holders	Front (2)	S	S	
	Rear (2)	S	S	
	Bottle holders in front door pockets	S	S	

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Comfort and Convenience		GTI	R
Driver assistance systems	Adaptive chassis control	S	S
	Driver Fatigue Detection system	S	S
	Driving profile selection	S	S
	ECO tip function, fuel efficiency advice	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) with static guidance lines	S	S
Floor mats	Front and rear, carpet	S	S
	Front and rear, carpet with Golf badging and white trim highlight	A	A
	Front and rear, rubber with Golf embossing	A	A
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
	Bi-Xenon headlights for high and low beam with dynamic and static cornering lights, integrated LED daytime driving lights, automatic self-levelling, headlight cleaning system and low washer fluid warning	S	S
	Low light sensor with automatic headlight function	S	S
In car entertainment and technology	Discover Media audio and satellite navigation system	S	S
	6.5" 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		
	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
	Auxiliary input audio socket in front centre console	S	S
	Bluetooth® phone connectivity with contacts display, operation via touch screen audio unit or Multi-Function Display and Bluetooth® audio streaming	S	S
	Speakers, front and rear (8)	S	S
	Voice operation, telephone and navigation system functions can be operated using voice commands	A	A
	Compatible only with the Discover Media audio and satellite navigation system		
USB charge cables, adaptor cables supporting connection to Apple Lightning®, Apple® 30 pin and mini USB	A	A	
Instrumentation	Speedometer & tachometer, electronic odometer and tripmeter, service interval display, fuel and coolant gauges, low fuel warning light, brake pad wear indicator and white adjustable illumination	S	S
	Comfort indicator function (1 x touch = 3 x flash)	S	S

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Comfort and Convenience (cont'd)		GTI	R
Interior highlights	Aluminium finish clutch, accelerator and brake pedals	S	S
	Black headlining and pillar trim	S	S
	Brushed chrome trim on instrument cluster, vent surrounds and gearshift lever surround	S	S
	Chrome highlight trim on headlight switch and exterior mirror switch	S	S
	Chrome highlight trim on power window switches	S	S
	Decorative inlays, "checkered black" to instrument surround, centre console, passenger's side dashboard and doors	S	-
	Decorative inlays, "piano black" to instrument surround and centre console, "carbon touch" to passenger's side dashboard and doors	-	S
	Door sill scuff plates, front in aluminium finish with illumination	S	S
	Gearshift knob with leather and aluminium finish	S	S
	Manual gearshift knob with traditional golf ball design	S	-
Interior lighting	With time delay	S	S
	Front LED reading lights (2) and rear passenger LED reading lights (2)	S	S
	LED ambient lighting in driver and front passenger foot well, front door decorative inlays, door openers and handles	S	S
Luggage compartment	Load restraining hooks	S	S
	Luggage compartment light	S	S
	Luggage compartment protection: moulded foam liner, plastic tray, reversible velour/rubber mat with loading sill protective flap	A	A
	Luggage cover, removable and storable	S	-
	Luggage cover, removable	-	S
	Luggage net	A	A
	Shopping bag hooks	S	S
	Storage box in side lining	S	S
	Variable luggage compartment floor level 12 volt socket	S	-
S	S		
Mirrors	Automatic dimming interior rear-view mirror	S	S
	Additional interior rear-view mirror	A	A
	Electrically heated and adjustable exterior mirrors	S	S
	Exterior mirrors with integrated LED turn indicators	S	S
Power steering	Electro-mechanical, vehicle speed and steering input sensitive	S	S
	Progressive steering	S	S
Seating	Sports seats with additional side bolstering	S	S
	Height adjustment for front seats	S	S
	Individually heated front seats	-	S
	Lumbar adjustment for front seats	S	S
	Split folding rear seat backrest (40/60)	S	S
	Rear seat centre armrest with cup holders (2) and load through provision	S	S
Steering wheel	3 spoke leather covered flat bottomed sports steering wheel with brushed aluminium inserts and decorative stitching	S	S
	Audio, telephone, cruise control and Multi-Function Display controls	S	S
	Gearshift paddles (with DSG)	S	S
	Height and reach adjustable steering wheel	S	S

Volkswagen Golf – Performance Range



Comfort and Convenience (cont'd)

		GTI	R
Storage	Centre console storage compartment under armrest	S	S
	Glove compartment with cooling and illumination	S	S
	Coin tray and 12 volt socket in console	S	S
	Compartment in roof console	S	S
	Drawers under front seats	S	S
	Driver's side dashboard compartment with lid	S	S
	Front door pockets with bottle holders	S	S
	Front seat backrest storage pockets	S	S
	Waste container in white, suits cup holder	A	A
Sunroof	Panoramic glass sunroof	O	O
	Electrically slide and tilt adjustable		
	Integrated wind deflector and sunblind		
Transmission	Gearshift recommendation indicator	S	S
	6 speed manual transmission	S	S
	6 speed Direct Shift Gearbox (DSG) with sport mode and Tiptronic function	O	O
Trip computer	Multi-Function Display (MFD Premium) – colour display and screen transitions with animations, lap timer, trip time, trip length, average and current speed, average and current fuel consumption, distance till empty and ambient temperature, digital clock, vehicle status, audio, telephone and navigation menus	S	S
Upholstery	'Clark' sports cloth seats with red decorative stitching	S	-
	Vienna leather appointed seat upholstery with individually heated front seats and decorative stitching	O	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
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
	Sunblind for rear window	A	A
	Sunblind for rear side windows	A	A
12V socket	Centre console	S	S
	Luggage compartment	S	S
Optional Packages			
Driver assistance package	Adaptive Cruise Control (ACC)	O	O
	Blind Spot Monitor with Rear Traffic Alert		
	Front Assist with City Emergency Brake (City EB) function		
	Park Assist, parking bay and parallel parking assistance except Golf R		
	Park Assist is not available for the Golf R		
	Proactive occupant protection system		

Volkswagen Golf – Performance Range



Technical Specifications

Model	GTI		R	
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	162 @ 4500-6200 (manual) 162 @ 4300-6200 (DSG)		206 @ 5100-6500	
Max torque, Nm @ rpm	350 @ 1500-4400 (manual) 350 @ 1600-4200 (DSG)		380 @ 1800-5100	
Compression ratio	9.6:1		9.3:1	
Ignition system	Electronic		Electronic	
Exhaust emission control	Exhaust gas recirculation, three way catalytic converter and lambda probes		Exhaust gas recirculation, three way catalytic converter and lambda probes	
Fuel type (Recommended)	Premium unleaded 98 RON minimum		Premium unleaded 98 RON minimum	
Transmission	6 Spd Man	6 Spd DSG	6 Spd Man	6 Spd DSG
Driven wheels	Front wheel drive		4MOTION all-wheel drive	
Performance #				
0 – 100 km/h	6.5	6.5	5.2	5.0
Fuel Consumption **				
Combined, L/100km	6.2	6.5	7.3	7.1
Urban, L/100km	7.7	8.3	9.6	9.0
Extra Urban, L/100km	5.3	5.5	6.1	6.1
CO2 emission g/km	144	151	170	164
Fuel tank capacity litres	50	50	55	55

*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.

The driving style, road and traffic conditions, environmental influences, the fitment of accessories and vehicle condition can in practice lead to consumption figures which may differ from those calculated with these standards.

Volkswagen Golf – Performance Range



Technical Specifications (cont'd)

		GTI		R	
Running Gear		2.0 litre TSI BlueMotion Technology		2.0 litre TSI BlueMotion Technology	
Suspension	Front Axle	Independent, MacPherson struts with lower A-arms. Anti-roll bar. Lowered sports suspension with adaptive chassis control			
	Rear Axle	Independent, four-link with coil springs. Anti-roll bar. Lowered sports suspension with adaptive chassis control			
Steering		Electro-mechanical power assisted rack & pinion steering. Progressive 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	Front	Ventilated discs		Ventilated discs	
	Rear	Discs		Ventilated discs	
Turning Circle (m)		10.9		10.9	
Weights		6 Spd Man	6 Spd DSG	6 Spd Man	6 Spd DSG
Tare Mass Kg's		1313	1324	1416	1435
Towbar	Braked ≠	1400	1400	-	-
Capacity* kg	Unbraked	620	620	-	-
Tow bar Load Limit* kg		80	80	-	-
Exterior Dimensions					
Overall length mm		4268		4264	
Width mm		1799		1799	
Height mm		1466		1442	
Wheelbase mm		2626		2620	
Track mm	Front	1538		1536	
	Rear	1517		1514	
Luggage Area Dimensions #					
Luggage area volume L	Rear seat upright	380		343	
	Rear seat folded	1270		1233	
Luggage area floor length mm	Rear seat upright	839		819	
	Rear seat folded	1558		1558	
Luggage area width mm	At narrowest point	1003		1003	
Luggage load height mm	To luggage cover	587		587	
	To roof lining	900		900	

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

* Please note towbar capacities are applicable to the Genuine Volkswagen Accessory towbar.

≠ Please note, 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.



Colour Combinations

EXTERIOR COLOUR								
	Pure White	Tornado Red	Reflex Silver M	Night Blue M	Lapiz Blue M	Carbon Steel M	Limestone Grey M	Deep Black PE
INTERIOR TRIM								
GTI								
Black/Red 'Clark' sports cloth seat upholstery	S	S	S	S	-	S	-	S
Black Vienna leather appointed seat upholstery*	O	O	O	O	-	O	-	O
R								
Black Vienna leather appointed seat upholstery*	S	S	S	-	S	-	S	S

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

Please note: Metallic (M) and Pearl Effect (PE) paint are optional at additional cost, except Golf R.



Glossary

4MOTION[^]

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 Golf R 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 Chassis Control

The electrically controlled dampers of adaptive chassis control constantly adjust to the road conditions, the driving situation and driver's requirements. Selected via and integrated within the functionality of the Driving Profile Selection, the driver can choose between three damper settings – Normal, Comfort and Sport (Race – Golf R).

Starting from the normal setting, the driver can change the basic character of the car towards sporty or more comfort-oriented driving. In each setting, the adaptive chassis control adjusts the damping to the particular driving situation (up to one thousand times per second) which means it offers an optimum level of driving comfort and enjoyment at all times. Particularly on windy roads and poor surfaces, using adaptive chassis control offers sporty and yet comfortable driving.

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 Golf 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 Golf then accelerates up to the preset 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. In vehicles fitted with a manual transmission, the system is automatically deactivated at speeds below 30 km/h and the driver is prompted to take charge by visual and acoustic signals.

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



Glossary (cont'd)

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.

Blind Spot Monitor with Rear Traffic Alert*

The Blind Spot Monitor with Rear Traffic Alert system supports the driver in assessing and avoiding dangerous situations, especially in critical situations, e.g. city and heavy traffic. The Blind Spot Monitor detects cars and motorcycles in the driver's blind spot and highlights these vehicles via a LED indicator in the door mirror. 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).

Blind Spot Monitor 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.

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

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 (Race – Golf R), Eco, Comfort 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 (optional) DSG switches to Sport mode. Alternatively, the Golf R features Race mode, damping is increased (further reducing movements of the body structure), and engine response and shift points of the (optional) DSG are configured to be even more dynamic. Eco mode has been designed to enhance fuel efficiency by including coasting function (with DSG) 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.

Fatigue Detection

The driver Fatigue Detection system automatically analyses the driving characteristics and if they 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 other roads at speeds in excess of 65 km/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.

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.



Glossary (cont'd)

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.

Electronic Stabilisation Program (ESP)

ABS 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.

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.

Front Assist with City Emergency Brake (City EB) function*

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.

Front Assist with City Emergency Brake (City EB) 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.

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.



Glossary (cont'd)

Park Assist*

The second generation Park Assist system actively helps the driver when 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 reverse 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.

Proactive occupant protection system*

The proactive occupant protection system incorporates active and passive safety elements. When the system detects a potential accident situation, the occupants and the vehicle are prepared for a possible accident. Automatic tensioning of the seat belts secures the driver and front passenger in their seats to attain the best possible protective potential of the airbag and belt system. In case of high transverse dynamics the side windows (and optional panoramic sunroof) are also closed, leaving just a small air gap. Closing of the windows offers optimal support to the head and side airbags which results in the best possible protection.

*Optional equipment

^Only available on selected models

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