



Volkswagen

# Polo

## Specifications



Polo 85TSI Comfortline shown with optional R-Line and driver assistance packages.

# Features and Specifications

<b>Safety and Security</b>	<b>70TSI Trendline</b>	<b>85TSI Comfortline</b>	<b>GTI</b>
<b>Airbags</b>			
Driver and front passenger airbags	S	S	S
Driver and front passenger side airbags	S	S	S
Curtain airbags, front and rear	S	S	S
<b>Anti-theft</b>			
Alarm system with interior monitoring and tilt sensor	—	—	S
Electronic engine immobiliser	S	S	S
Security coded audio system	S	S	S
<b>Body</b>			
Door side impact protection	S	S	S
Fully galvanised body with 12 year anti-corrosion perforation warranty	S	S	S
Rigid safety cell with front and rear crumple zones	S	S	S
<b>Brakes</b>			
Automatic flashing brake lights activated in emergency braking situation	S	S	S
Anti-lock Braking System (ABS)	S	S	S
Brake Assist	S	S	S
Electronic Brake-pressure Distribution (EBD)	S	S	S
Hill Start Assist (HSA)	S	S	S
Multi-collision brake	S	S	S
Red brake callipers	—	—	S
<b>Child restraints</b>			
Child seat top tether anchorage points, mounted on rear seat back (3)	S	S	S
ISOFIX child seat anchorage points, outer rear seats (2)	S	S	S
<b>Head restraints</b>			
Front safety optimised head restraints, height adjustable	S	S	S
Rear head restraints height adjustable (3)	S	S	S
<b>Lighting</b>			
Daytime driving lights, LED lights integrated in lower bumper	S	S	S
Front fog lights with static cornering function, integrated in lower bumper	—	P	S
Fog lamp, rear	S	S	S
Rear licence plate lamp, LED	—	—	S
Rear tail lights, LED	—	—	S

## Safety and Security (continued)

	70TSI Trendline	85TSI Comfortline	GTI
<b>Locking</b>			
Keyless Access, keyless entry and starting system including starter button and SAFELOCK deadlock mechanism	—	—	S
Remote central locking (separate release for luggage compartment)	S	S	S
2 stage unlocking (programmable)	S	S	S
Automatic locking after take-off (programmable)	S	S	S
One touch lock / unlock for driver	S	S	S
Child safety locks on rear doors	S	S	S
Fuel filler flap lock/unlock by remote, push to open	S	S	S
<b>Seat belts</b>			
Front height adjustable with pre-tensioners and belt force limiters	S	S	S
Outer rear seat belts with pre-tensioners and belt force limiters	S	S	S
Visual and acoustic warning for driver and front seat passenger seat belts not fastened	S	S	S
Visual indicator for rear seat passenger seat belt status	S	S	S
3 point seat belts for all passengers	S	S	S
<b>Traction control</b>			
Anti-Slip Regulation (ASR)	S	S	S
Electronic Differential Lock (EDL)	S	S	S
Electronic Stabilisation Program (ESP)	S	S	S
Extended Electronic Differential Lock (XDL)	—	—	S

## Exterior Equipment / Styling

<b>Body enhancements</b>			
Body coloured bumper bars, door handles and exterior mirrors	S	S	S
Body coloured lower front spoiler with gloss black inserts	—	—	S
Exposed dual chrome exhaust tail pipes, left	—	—	S
GTI nameplate on radiator grille, front wheel guards and tailgate	—	—	S
Lower air intake and radiator grille with black honeycomb inserts	—	—	S
Radiator grille highlight in chrome	—	S	—
Radiator grille and headlight housings with red/chrome strip	—	—	S
Rear bumper with black diffuser	S	S	—
Rear bumper with black sports diffuser	—	—	S
Rear roof spoiler with gloss black aerodynamic extension	—	—	S
Side sill panel extensions in black finish	—	—	S
<b>Paint</b>			
Metallic or Pearl Effect paint finish	O	O	O
<b>Tinted Glass</b>			
Darkened rear tail light clusters	S	S	S
Heat insulating tinted glass	S	S	S

<b>Exterior Equipment / Styling (continued)</b>	<b>70TSI Trendline</b>	<b>85TSI Comfortline</b>	<b>GTI</b>
<b>Wheels</b>			
Steel wheels with full wheel covers 15x5.5" with 185/65 R15 tyres	S	—	—
Alloy wheels (Sassari) 15x5.5" with 185/65 R15 tyres	—	S	—
Alloy wheels (Milton Keynes) 17x7.5" with 215/45 R17 tyres	—	—	S
Anti-theft wheel bolts	—	S	S
Low tyre pressure indicator	S	S	S
Spare wheel, full size steel	S	S	—
Spare wheel, weight and space saving	—	—	S
The weight and space saving spare wheel and tyre is speed restricted			

## Comfort and Convenience

<b>Armrests</b>			
Front centre armrest with storage compartment, longitudinal adjustable	—	S	S
<b>Air conditioning</b>			
Air conditioning, manual control	S	S	—
Air conditioning, dual zone automatic climate control	—	—	S
Dust and pollen filter	S	S	S
<b>Console</b>			
Centre console with open storage compartment, cup holders and 12 volt socket	S	S	S
<b>Cup holders</b>			
Front (2)	S	S	S
Bottle holders in front door pockets	S	S	S
<b>Driver assistance systems*</b>			
Cruise control with programmable speed limiter	S	S	S
Distance warning display	S	S	S
Driver Fatigue Detection system	S	S	S
Driving profile selection	—	—	S
Front Assist with City Emergency Brake (City EB) and Pedestrian Monitoring functions	S	S	S
Rear View Camera (RVC) with static guidance lines	S	S	S
Sport Select suspension	—	—	S
<b>Floor mats</b>			
Front and rear, carpet	—	—	S
<b>Headlights</b>			
Halogen headlights with clear polycarbonate lens	S	S	S
Headlight and fog light switches on dashboard	S	S	S
Coming / leaving home function	—	S	S
Low light sensor with automatic headlight function	—	S	S

\*Safety technologies are designed to assist the driver, but should not be used as a substitute for safe driving practices.

## Comfort and Convenience (continued)

	70TSI Trendline	85TSI Comfortline	GTI
<b>In car entertainment and technology</b>			
Composition Media audio system 8.0" colour capacitive touch screen display with smartphone style HMI and proximity sensor, AM/FM radio, CD player and SD card slot for music, compatible with MP3, WMA and AAC music files, jpeg image viewer, car menu with convenience and service settings, security coded	S	S	S
App-Connect <sup>™</sup> , interface for Apple CarPlay <sup>®</sup> , Android Auto <sup>™</sup> and MirrorLink <sup>®</sup>	S	S	S
Audio, telephone, cruise control and Multi-Function Display controls mounted on steering wheel	S	S	S
Bluetooth <sup>®</sup> phone connectivity with contacts display, operation via touch screen audio unit or Multi-Function Display and Bluetooth <sup>®</sup> audio streaming	S	S	S
Speakers, front (4) and rear (2)	S	S	S
USB ports (2) front, Apple <sup>®</sup> compatible located in front centre console	S	S	S
USB ports (2) rear, located on back of centre armrest storage compartment	—	S	S
<b>Instrumentation</b>			
Multi-Function Display (MFD Plus) Monochrome display - Trip computer (trip time, trip length, average and current speed, speed warning, average and current fuel consumption, distance till empty and oil temperature), vehicle status, driver assistance, audio and telephone menus	S	S	S
Speedometer & tachometer, electronic odometer and tripmeter, start/stop system status and ambient temperature display, digital clock, low fuel warning light, white illumination	S	S	S
Fuel and coolant temperature gauges	S	S	S
Comfort indicator function (1 x touch = 3 x flash)	S	S	S
<b>Interior highlights</b>			
Aluminium finish accelerator and brake pedals	—	—	S
Black headlining and pillar trim	—	—	S
Chrome elements on power mirror and power window switches	—	S	S
Chrome elements on power mirror and power window switches, outer air vents, interior door handle surround and instrument cluster	—	—	S
Door sill scuff plates in aluminium finish with GTI logo, front	—	—	S
Gloss black highlight surrounding instruments and infotainment system	S	S	S
Gearshift knob and handbrake lever handle in leather	S	S	S
Limestone Grey Metallic inlays to dashboard, front centre console and front door trims	S	S	—
Velvet Red inlays to dashboard, front centre console and front door trims	—	—	S
<b>Interior lighting</b>			
Interior light with time delay	S	S	S
LED ambient lighting in door trim inserts and dashboard	—	—	S
LED lighting in driver and front passenger foot wells and phone storage compartment	—	—	S
Passenger reading lights, front (2), LED GTI	S	S	S
Passenger reading lights, rear (2), LED GTI	—	S	S
<b>Luggage compartment</b>			
Load restraining hooks	S	S	S
Luggage compartment light	S	S	S
Luggage cover, removable	S	S	S
Shopping bag hooks	S	S	S
Variable luggage compartment floor level	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 O Optional Extra — Not available P Available as part of an optional package

## Comfort and Convenience (continued)

	70TSI Trendline	85TSI Comfortline	GTI
<b>Mirrors</b>			
Automatic dimming interior rear-view mirror	—	S	S
Electrically foldable exterior mirrors	—	P	S
Electrically heated and adjustable exterior mirrors	S	S	S
LED turn indicators integrated in exterior mirrors	S	S	S
<b>Power steering</b>			
Electro-mechanical, vehicle speed and steering input sensitive	S	S	S
<b>Seating</b>			
Height adjustment for driver's seat	S	S	S
Height adjustment for front passenger's seat	S	S	S
Lumbar adjustment for front seats, manually adjustable	—	—	S
Split folding rear seat backrest (40/60)	S	S	S
Sports seats with additional side bolstering	—	—	S
<b>Steering wheel</b>			
Leather covered 3 spoke flat bottomed steering wheel	S	S	—
Leather covered 3 spoke flat bottomed sports steering wheel with gearshift paddles	—	—	S
Audio, telephone, cruise control and Multi-Function Display controls	S	S	S
Height and reach adjustable	S	S	S
<b>Storage</b>			
Card holder in front centre console	S	S	S
Coat hooks on centre door pillars	S	S	S
Compartment in roof console	—	S	S
Compartment for owner's manual under left front seat	—	S	S
Compartment (open) in front centre console	S	S	S
Compartment (open) in rear centre console	S	—	—
Front centre armrest storage compartment	—	S	S
Front door pockets	S	S	S
Front seat back storage pockets	—	S	S
Glove compartment with coin and card holders	S	S	S
Rear door pockets	S	S	S
<b>Sun visors</b>			
Driver and front passenger	S	S	S
<b>Transmission</b>			
Gearshift recommendation indicator	S	S	S
5 speed manual transmission	S	—	—
6 speed manual transmission	—	S	—
6 speed Direct Shift Gearbox (DSG) with Tiptronic function and Sport mode	—	—	S
7 speed Direct Shift Gearbox (DSG) with Tiptronic function and Sport mode	O	O	—

## Comfort and Convenience (continued)

	70TSI Trendline	85TSI Comfortline	GTI
<b>Upholstery</b>			
Cloth	S	—	—
Comfort cloth	—	S	—
'Clark' GTI sports cloth	—	—	S
<b>Vanity mirrors</b>			
Driver's side vanity mirrors	S	S	S
Front passenger's side vanity mirrors	S	S	S
Illuminated on driver's and passenger's side	—	S	S
<b>Windows</b>			
Power front and rear with one-touch up-down	S	S	S
Remote operated convenience close and open feature (programmable)	S	S	S
<b>Wipers</b>			
2 speed with wash/wipe and intermittent wipe with 4 position delay	S	S	S
Rain sensor	—	S	S
Rear window with wash/wipe and intermittent wipe	S	S	S
<b>12V socket</b>			
Centre console	S	S	S

Optional Packages	70TSI Trendline	85TSI Comfortline	GTI
<b>Driver assistance package*</b>			
Adaptive Cruise Control (ACC) with Stop and Go function for DSG Automatic kerb function when reversing, passenger's side exterior mirror Blind Spot Monitor with Rear Traffic Alert Electrically foldable exterior mirrors (standard GTI) Manoeuvre Braking, front and rear Optical Parking System (OPS) in infotainment system display Park Assist, parking bay and parallel parking assistance Parking distance sensors, front and rear with acoustic warning and audio volume level reduction when sensor warning is activated Proactive occupant protection system	—	0	0
<b>Luxury package</b>			
Alloy wheels (Brescia) 18x7.5" with 215/40 R18 tyres Art Velours microfleece seat upholstery with comfort sport front seats The GTI sport seats are replaced by comfort sports seats with this upholstery option Dark tinted rear side window and rear window glass, 65% light absorbing LED headlights for high and low beam with integrated LED daytime driving lights and automatic self-levelling Heated front seats Panoramic glass sunroof, electrically slide and tilt adjustable with integrated wind deflector and sunblind	—	—	0
<b>R-Line package</b>			
Alloy wheels (Sebring) 16x6½" with 195/55 R18 tyres (4) Dark tinted rear side window and rear window glass, 65% light absorbing Front fog lights with static cornering function, integrated in lower bumper R-Line badge in radiator grille and front wheel guards R-Line front bumper with gloss black detail, front spoiler and large lower air intake R-Line rear bumper with gloss black sports diffuser and trapezoidal chrome trims Rear roof spoiler with gloss black aerodynamic extension Lower body side sill extensions in gloss black Sports suspension, lowered approximately 15mm	—	0	—
<b>Sound &amp; Vision package</b>			
Active Info Display, high resolution 10.25" digital instrument colour display screen with customisable displays Discover Media audio and satellite navigation system 8.0" colour capacitive 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 beats 300W premium audio system with 8-channel digital amplifier and subwoofer Inductive wireless phone charging Media Control The variable luggage compartment floor level is deleted when this package is selected on a 85TSI Comfortline model.	—	0	0

\*Safety technologies are designed to assist the driver, but should not be used as a substitute for safe driving practices.



# Technical Specifications

	70TSI Trendline		85TSI Comfortline		GTI
<b>Engine</b>	<b>1.0 litre TSI BlueMotion Technology</b>		<b>1.0 litre TSI BlueMotion Technology</b>		<b>2.0 litre TSI BlueMotion Technology</b>
Type	3 cylinder inline turbocharged direct injection petrol with engine Start/Stop system*		3 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		Front transverse
Cubic capacity, litres/cc	1.0/999		1.0/999		2.0/1984
Bore/stroke, mm	74.5/76.4		74.5/76.4		82.5/92.8
Max power, kW @ rpm	70 @ 5,000-5,500		85 @ 5,000-5,500		147 @ 4,390-6,000
Max torque, Nm @ rpm	175 @ 2,000-3,500		200 @ 2,000-3,500		320 @ 1,450-4,390
Compression ratio	10.5:1		10.5:1		11.65:1
Fuel System	Direct injection		Direct injection		Direct injection and intake manifold injection
Ignition system	Electronic		Electronic		Electronic
Exhaust emission control	Lambda probes before and after catalytic converter		Lambda probes before and after catalytic converter		Lambda probes before and after catalytic converter
Fuel type (recommended)	Minimum 95 RON		Minimum 95 RON		Minimum 95 RON
<b>Transmission</b>	5 Speed Manual	7 Speed DSG	6 Speed Manual	7 Speed DSG	6 Speed DSG
Driven wheels	Front wheel drive	Front wheel drive	Front wheel drive	Front wheel drive	Front wheel drive
<b>Performance#</b>					
0 – 100 km/h	10.8	10.8	9.5	9.5	6.7
<b>Fuel Consumption**</b>					
Combined, L/100km	4.8	5.0	5.1	5.0	6.1
Urban, L/100km	6.0	6.0	6.2	5.9	7.9
Extra Urban, L/100km	4.1	4.4	4.4	4.5	5.1
CO <sub>2</sub> emission g/km	110	113	116	115	140
Fuel tank capacity, L	40	40	40	40	40

\*The Start/Stop system is designed to reduce fuel consumption and CO<sub>2</sub> 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 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

	70TSI Trendline		85TSI Comfortline		GTI
<b>Running gear</b>	1.0 litre TSI BlueMotion Technology		1.0 litre TSI BlueMotion Technology		2.0 litre TSI BlueMotion Technology
Suspension	Independent suspension, MacPherson struts and coil springs Torsion beam axle, trailing arms, coil springs Lowered Sport Select suspension (GTI)				
Front axle					
Rear axle					
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		Ventilated discs		Ventilated discs
Front	Drums		Discs		Discs
Rear	10.6		10.6		10.6
Turning circle, m	10.6		10.6		10.6
<b>Weights</b>	6 Speed Manual	7 Speed DSG	6 Speed DSG	7 Speed DSG	6 Speed DSG
Tare mass, kg	1111	1147	1116	1152	1285
<b>Exterior Dimensions</b>	4053		4053		4067
Overall length, mm	1751		1751		1751
Width, mm	1446		1446		1438
Height, mm	2548		2548		2560
Wheelbase, mm	1521		1521		1510
Track mm	1501		1501		1484
Front	1501		1501		1484
Rear	1501		1501		1484
<b>Luggage Area Dimensions*</b>	351		351 (305*)		305
Luggage area volume, L	1125		1125 (1079*)		1079
Rear seat upright	705		705		699
Rear seat folded	1380		1380		1432
Luggage area floor length, mm	1002		1002		1002
Rear seat upright	1002		1002		1002
Rear seat folded	1002		1002		1002
Luggage area width, mm	1002		1002		1002
At narrowest point	1002		1002		1002

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

\*Values applicable to vehicles equipped with the optional Sound & Vision package

# Colour Combinations

Interior Trim	Exterior Colours						
	Pure White	Flash Red	Reflex Silver M	Energetic Orange M	Limestone Grey M	Reef Blue M	Deep Black PE
<b>70TSI Trendline</b>							
Black cloth seat upholstery	S	—	S	S	S	S	S
<b>85TSI Comfortline</b>							
Black comfort cloth seat upholstery	S	—	S	S	S	S	S
<b>GTI</b>							
'Clark' GTI sports cloth seat upholstery	S	S	—	—	S	S	S
Black Art Velours microfleece seat upholstery	O	O	—	—	O	O	O

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

# Glossary

## 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 Polo 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 Polo 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. 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 distance to the vehicle in front can be pre-set in the car menu of the infotainment system and individually varied via the multi-function steering wheel. The status of the ACC system can be viewed in driver assistance systems menu in the Multi-Function Display (MFD Plus).

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 driven wheels from spinning under acceleration by reducing engine torque. It is active at speeds above 40km/h.

## 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, Eco 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. The Individual setting allows the driver to separately set various parameters including steering, engine, Adaptive Cruise Control (ACC)\* and air conditioning.

## 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. EDL is active in forward and reverse and operates up to 40km/h.

\*Optional equipment for specific models. ^Standard equipment for specific models.

# Glossary

## 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)<sup>^</sup>

XDL is an extension of the Electronic Differential Lock (EDL) function. When cornering, XDL responds to the load relief at the front wheel 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 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 others roads at speeds in excess of 60 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.

## 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.

## Hill Start Assist

Hill Start Assist (HSA) holds the vehicle when the foot brake is released by temporarily locking the brake pressure (for a maximum of 1.5 seconds) to provide comfortable starting-off without rolling back. Hill Start Assist (HSA) operates on inclines greater than 5% and is fitted in combination with manual transmissions and the Direct Shift Gearbox (DSG).

## 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.

\*Optional equipment for specific models. <sup>^</sup>Standard equipment for specific models.

# Glossary

## 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.

## 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.

## Sport Select Suspension^

The Sport Select suspension system features electronically adjustable dampers. When the driver selects Sport mode in the Driving Profile Selection, an electro-mechanical switching valve in the dampers is activated which alters their tuning from a sporty yet comfort oriented standard setting to the firmer characteristic of a true sports suspension. In addition, Sport mode provides the electro-mechanical power steering system with a sportier feel and the accelerator pedal with a faster response. At the same time, the engine note heard inside the vehicle is enhanced due to the sound actuator. Additionally, the transmission changes automatically from D to S (Sport) mode.

\*Optional equipment for specific models. ^Standard equipment for specific models.

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ABN 14 093 117 876

Produced in Australia  
October 2018

Publication: VWPPOLOSPMY19

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