



# Touareg R Specifications



## Safety and Security

R

### Airbags

Driver and front passenger airbags	S
Driver and front passenger side airbags	S
Rear side airbags	S
Curtain airbags, front and rear	S

### Anti-theft

Anti-theft alarm system with interior monitoring	S
Electronic engine immobiliser	S

### Body

Fully galvanised body with 12 year anti-corrosion perforation warranty	S
Door side impact protection	S
Rigid safety cell with front and rear crumple zones	S

### Brakes

Automatic flashing brake lights activated in emergency braking situation	S
Anti-lock Braking System (ABS)	S
Blue brake calipers, front with R logo	S
Brake Assist	S
Electronic Brake-pressure Distribution (EBD)	S
Electro-mechanical parking brake	S
Auto hold function	S
Multi-collision brake	S

### Child restraints

Child seat top tether anchorage points, mounted on rear seat back (3)	S
ISOFIX child seat anchorage points, outer rear seats	S

### Head restraints

Front safety optimised head restraints, longitudinal and height adjustable	S
Rear head restraints height adjustable (3)	S

### Lighting

LED Daytime driving lights	S
VW logo projection puddle lights from the side mirrors	S
Rear fog lamp on both sides	S
Rear registration plate light, LED	S
Rear tail lights, Premium LED with dynamic turn signals and illuminated VW logo	S

### Locking

Remote central locking	S
Keyless Access and starting system including starter button	S
SAFELOCK deadlocking system	S
2 stage unlocking (programmable)	S
Automatic locking after take-off (programmable)	S
One touch lock / unlock for driver	S
Child safety locks on rear doors	S
Individual child safety window locks for rear windows	S
Fuel filler flap lock/unlock by remote, button in drivers door to open	S

S Standard

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



## Safety and Security Cont.

R

### Seat belts

Front height adjustable with pre-tensioners and belt force limiters	S
Outer rear seat belts with pre-tensioners and belt force limiters	S
Visual and acoustic warning for driver and front seat passenger seat belts not fastened	S
Visual indicator for rear seat passenger seat belt status	S
3 point seat belts for all passengers	S

### Traction control

Anti-Slip Regulation (ASR)	S
Electronic Differential Lock (EDL)	S
Electronic Stabilisation Program (ESP)	S
Extended Electronic Differential Lock (XDL)	S
Hill descent control	S
4MOTION Active Control all-wheel drive	S

## Exterior Equipment/Styling

R

### Body enhancements

Body coloured bumper bars, exterior mirrors and door handles	S
Body coloured lower body side and bumper trim	S
Glossy black trim around window frames	S
Glossy black radiator grille highlights	S
Glossy black headlight highlights integrated into grille	S
R front bumper with black accents	S
R rear bumper with black tailpipe trim	S

### Paint

Metallic / Premium Metallic paint finish	O
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### Roof

Roof rails, glossy black	S
Roof load sensor (Works with Genuine Volkswagen roof bars)	S

### Tinted glass

Rear and side window tint 82% light absorbing	S
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### Wheels

Alloy wheels (Estoril) in Glossy Black 22 x 9.5J" with 285/35 R22	S
Anti-theft wheel bolts	S
Tyre Pressure Monitoring System (TPMS)	S
Tyre Mobility Set	S
Electric air compressor and tool kit	S





## Comfort and Convenience

R

<b>Armrest</b>	
Front centre armrest with storage box and rear air outlets (2)	S
Rear seat centre armrest with cup holders (3)	S
<b>Air conditioning</b>	
Air conditioning, Air Care 4 zone automatic climate control with air cleaning function, allergen filter and controls in the rear	S
Air quality and humidity sensor with automatic air recirculation	S
Dust and pollen filter	S
<b>Cup holders</b>	
Front (2)	S
Rear (3) in rear centre armrest	S
Bottle holders in front door pockets	S
Bottle holders in rear door pockets	S
<b>Doors</b>	
Power latching doors, front and rear	S
<b>IQ.DRIVE*</b>	
Adaptive Cruise Control (ACC)	S
Driver Fatigue Detection system	S
Dynamic Road Sign display	S
Emergency Assist	S
Front and Rear Cross Traffic Alert	S
Front Assist with Pedestrian Monitoring	S
Lane Assist with adaptive lane guidance	S
Park Assist Plus, semi-automated parking bay and parallel parking assistance	S
Parking distance sensors, front and rear with acoustic warning and audio volume level reduction when sensor warning is activated	S
Manoeuvre braking	S
Proactive occupant protection system 360° detection	S
Rear View Camera (RVC Plus) with multi-angle views and dynamic guidance lines	S
Area View surround view cameras	S
Speed limiter	S
Side Assist, lane changing assistant	S
Travel Assist	S
Night vision	S
<b>Floor mats</b>	
Front and rear, carpet	S
<b>Grab handles</b>	
Soft fold away grab handles, front and rear	S
<b>Headlights</b>	
All-weather light function	S
Coming / leaving home function with 3 animations front and rear	S
Poor weather light, cornering light and highway light	S
Separate daytime driving lights	S
Headlamp washer system	S
IQ. Lights LED High-Definition Matrix beam plus digital projection headlights for high and low beam with Dynamic Light Assist, integrated LED daytime driving lights and dynamic indicators	S
Low light sensor with automatic headlight function	S

## Comfort and Convenience Cont.

R

<b>In car entertainment and technology</b>	
<b>Discover Premium audio and satellite navigation system</b>	
15" colour touch screen display with smartphone style HMI, configurable home screen and proximity sensor, Gesture Control, Voice Control, DAB+, AM/FM radio and SD card slot for music, 2D and 3D (bird's eye) map views, compatible with MP3, WMA and AAC music files, jpeg image viewer, Media Control, car menu with convenience and service settings, security coded	S
Windshield projected colour head-up display which shows current speed, navigation directions and driver assist systems.	S
App-Connect USB-C interface for Apple CarPlay® and Android Auto™#	S
<b>App-Connect wireless interface for Apple CarPlay® and Android Auto™#</b>	
App-Connect featuring wireless Apple CarPlay® and wireless Android Auto™ is compatible with the latest versions of iOS and Android, active data service required, optional connection cable (sold separately).	S
<b>Inductive wireless phone charging</b>	S
Bluetooth® phone connectivity with contacts display, operation via touch screen audio unit or Active Info Display and Bluetooth® audio streaming	S
DYNAUDIO Consequence premium sound system with 16-channel amplifier, 14 speakers and 730W total power output	S
USB-C port (2) in front centre armrest, both Apple® compatible	S
USB-C ports (2) in rear centre console and USB-C port (1) in front centre console for charging	S
Voice operation, telephone and navigation system functions can be operated using voice commands	S
<b>Instrumentation</b>	
Digital Cockpit, high resolution 12.3" TFT instrument display screen with customisable menus	S
Comfort indicator function (1 x touch = 3 x flash)	S
<b>Interior highlights</b>	
Brushed dark aluminum decorative inserts in dashboard and door panels	S
Brushed stainless steel foot pedals	S
"Soul Black" headliner	S
Glossy black centre console	S
R stainless steel scuff plates in front & rear, illuminated	S
Gearshift knob with leather and aluminium finish	S
<b>Interior lighting</b>	
With time delay	S
Front reading lights (2) and rear passenger reading lights (2)	S
Multi-colour ambient interior lighting with selection of 30 colours and two colour combinations	S
Lighting in driver and front passenger foot well	S
Lighting in rear passenger foot wells	S
<b>Luggage compartment</b>	
Electrically operated automatic opening and closing of the tailgate with Easy Open and Easy Close functions	S
Warning triangle	S
Stainless steel loading edge protection	S
Net partition, rear seat backrest to roof lining	S
Load restraining hooks	S
Luggage compartment lights	S
Luggage cover, automatic and electric release	S
Luggage floor net	S
Shopping bag hooks	S
Buttons for air suspension control for easy loading	S
Luggage mat, reversible (carpet and rubber) and removable	S
12 volt socket	S

S Standard

# App-Connect featuring wireless Apple CarPlay® and wireless Android Auto™ is compatible with the latest versions of iOS and Android, active data service required, optional connection cable (sold separately).

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

## Comfort and Convenience Cont.

R

<b>Mirrors</b>	
Automatic dimming interior rear-view mirror	S
Electrically heated and adjustable exterior mirrors	S
Electrically foldable exterior mirrors with environment lighting	S
Automatic kerb view function when reversing, passenger's side exterior mirror	S
Electrically foldable exterior mirrors with environment lighting and memory function	S
Exterior mirrors with integrated LED turn indicators	S
Exterior mirrors housing painted in glossy black	S
<b>Panoramic glass sunroof</b>	
Panoramic glass sunroof	
Electrically slide and tilt adjustable front half section	S
Integrated wind deflector and electrically operated (perforated) sunblind	
<b>Power steering</b>	
Electro-mechanical, vehicle speed and steering input sensitive	S
<b>Seating</b>	
ergoComfort front seats	S
Electric adjustment for front seats with thigh support longitudinally sliding	S
Pneumatic side bolsters in the seat cushion and the backrest	S
Pneumatic adjustment of lumbar support	S
Pneumatic massage function with 10 massage cushions with 8 selectable massage programs	S
18-way electric adjustment for front seats with 3 position memory function and easy entry function	S
Heated front and outer rear seats	S
Ventilated front seats	S
Split folding rear seat backrest (40/20/40)	S
Rear seat backrest with angle adjustment and longitudinally sliding seat base	S
Rear seat backrest remote release	S
Rear seat centre armrest with cup holders (3)	S
<b>Specific equipment for Electric Vehicles</b>	
e-Sound electronic engine noise	S
Charging cable mode 2 (Australian wall socket to Type 2 vehicle socket)	S
Charging cable mode 3 (Type 2 charger to Type 2 vehicle socket)	S
Charging settings via the infotainment system	S
Stationary air conditioning is used to cool, ventilate or heat the passenger compartment of the vehicle when stationary	S
7.2 kW AC charging	S
Braking and deceleration energy recovery system	S
<b>Steering wheel</b>	
R sport steering wheel, heated with shifting paddles and touch buttons	S
Audio, cruise control and Digital Cockpit controls	S
Electric height and reach adjustable steering column with memory	S
<b>Storage</b>	
Centre console storage compartment under armrest, (2) USB-C Apple® compatible port	S
Centre console storage compartment with lid, 12 volt socket, (1) USB-C for charging and Inductive wireless phone charging	S
Glove compartment with ventilation and illumination	S
Driver's side dashboard compartment with lid	S
Front door compartments with bottle holder	S
Front seat backrest storage pockets	S
Rear door compartments with bottle holder	S

S Standard

## Comfort and Convenience Cont.

R

<b>Suspension</b>	
Air suspension with adaptive dampening control	S
Driving profile selection with 4MOTION Active Control	S
<b>Upholstery</b>	
R Puglia leather appointed upholstery with R logo	
Leather appointed seats has a combination of genuine and artificial leather, but are not wholly leather	S
<b>Vanity mirrors</b>	
Driver's and passenger's side vanity mirrors in sun visor	S
Light on driver's and passenger's side in second sun visor	S
<b>Windows</b>	
Power front /rear, with roll-back function and one-touch up-down	S
Roll-up sunshades in rear doors	S
Remote operated convenience close and open feature (programmable)	S
<b>Wipers</b>	
2 speed aero wipers with wash/wipe	S
Rain sensor	S
Rear window with wash/wipe and intermittent wipe	S



# Colours & Upholstery - Touareg R



Pure White



Oyster Silver M



Silicone Grey M



Chili Red M



Grenadilla Black M



Meloe-Blue PM



Lapiz Blue PM



R  
R Soul Black Puglia leather appointed seat upholstery\*

Please note: Metallic (M) and Premium Metallic (PM) paint are optional at additional cost.

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

The print process does not allow for exact reproduction of the exterior or the upholstery colours. Please contact your Volkswagen Dealer for further information on colours and upholstery combinations.

# Technical Specifications

<b>R</b>	
<b>Engine</b>	<b>3.0 litre Petrol</b>
Type	6 Cylinder with Turbocharger and Common rail direct injection
Installation	Front Longitudinal
Cubic capacity, litres/cc	3.0 / 2995cc
Bore/stroke, mm	84.5 / 89.0
Max power, kW @ rpm	250 @ 5300
Max torque, Nm @ rpm	450 @ 1500-5300
Compression ratio	11.2/1
Fuel System	Direct injection
Ignition system	Electronic
Exhaust emission control	Three-way catalytic converter with Petrol particulate filter
Fuel type (Recommended)	Petrol
<b>Electric Motor</b>	
Type	Plug in Hybrid, permanently excited synchronous machine
Peak power output, kW	100
Peak torque, Nm	400
Battery Type	Li-Ion
Battery Capacity kWh, gross	17.9
Energy Consumption (Wh/km)	211
Electric range (km)***	51
<b>Engine &amp; Electric Motor Combined</b>	
Max power, kW	340
Max torque, Nm	700
<b>Transmission</b>	<b>8 Speed Automatic</b>
Driven wheels	4MOTION All Wheel Drive
<b>Performance*</b>	
0 – 100 km/h, seconds	5.1
<b>Fuel consumption **</b>	
Combined, L/100km	3.3
CO2 emission g/km~	75
Fuel tank capacity litres	75
<b>Running gear</b>	
Suspension	
Front Axle	Five Link McPherson Strut
Rear Axle	Five Link Rear Axle
Steering	Electromechanical
Brake Systems	Front and Rear Hydraulic Disc Brakes
<b>Brakes</b>	
Front	6 Piston with 400 mm Rotors
Rear	Single piston with 350mm Rotors
Turning Circle m	12.19

- Emission level according to European Regulation (EC) No. 715/2007 and Regulation (EC) No. 692/2008, UN ECE R83/06 and later amendments.

\*\*\*Figure based on ADR 81/02 (pure electric range). Figure is derived from laboratory testing. Factors including but not limited to driving style, road and traffic conditions, environmental influences, vehicle condition, use of ancillary features (eg air conditioning) and accessories (including wheel size) 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.

\*\* 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.

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

α Please note running clearance measurement may vary with wheel size, tyre pressures, tread depth.

+ Rear seat bench as far forwards as possible, backrest upright



# Technical Specifications Cont.

R

<b>Weights</b>	
Tare Mass kg's	2433
Towing Capacity	Please refer to the specific Vehicle Towing page.
<b>Exterior dimensions</b>	
Overall length mm	4889
Width mm	1984
Height mm	1757
Wheelbase mm	2888
<b>Track mm</b>	
Front	1660
Rear	1670
Running clearance mm*	180
<b>Luggage area dimensions#</b>	
Luggage Area volume L	
Rear seat upright+	810
Rear seat folded	1800
Luggage area floor length mm	
Rear seat upright	1051
Rear seat folded	1910
Luggage area width mm	
At narrowest point	1173
Luggage load height mm	
To roof	768

\*\*\*Figure based on ADR 81/02 (pure electric range). Figure is derived from laboratory testing. Factors including but not limited to driving style, road and traffic conditions, environmental influences, vehicle condition, use of ancillary features (eg air conditioning) and accessories (including wheel size) 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.

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

⌘ Please note running clearance measurement may vary with wheel size, tyre pressures, tread depth.

+ Rear seat bench as far forwards as possible, backrest upright

# Vehicle Towing

The Owner's Manual contains both general and detailed specific information relating to the vehicle's ability for the towing of trailers and should be referenced to ensure familiarity with its contents. In addition to this information it should also be noted that for the Australian market the maximum permitted vertical load exerted by the trailer drawbar on the ball head of the towing bracket must not exceed the values as stated and shown for each model type below.

Different trailer types and different trailer manufacturers have varying towball downloads. The customer should always contact the trailer manufacturer for information as to the maximum download weight. Volkswagen does not recommend the fitting of load levelling or weight distribution devices when used with a Volkswagen Genuine towbar. When fitted and used correctly, the Volkswagen Genuine towbar is capable of meeting the towbar/towball capacities as stated and shown for each model type below.

## Towing Capacity



**NOTE: Towbar capacities must not be exceeded. Volkswagen Group Australia recommends the use of a Genuine Volkswagen Accessory Towbar.**

Touareg Variant	Model Code	Towbar Capacity Unbraked	Towbar Capacity Braked
170TDI	RC834J	750 kg	3,500 kg
210TDI Elegance/ R-Line	RC8*7J	750 kg	3,500 kg
340PHEV R	RC8RZJ	750 kg	3,500 kg

## Maximum Permitted Gross Rear Axle Weight Rating and Maximum Downball Weight



**NOTE: The Maximum Permitted Gross Rear Axle Weight Rating is inclusive of the Maximum Downball Weight and must not be exceeded. The Maximum Downball Weight must also not be exceeded.**

Touareg Variant	Model Code	Maximum Permitted Gross Rear Axle Weight Rating	Maximum Downball Weight
170TDI	RC834J	1,530 kg	280 kg
210TDI Elegance/ R-Line	RC8*7J	1,500 kg	215 kg
340PHEV R	RC8RZJ	1,630 kg	220 kg

## Maximum Gross Vehicle Mass and Maximum Gross Combination Mass



**NOTE: The Maximum Gross Vehicle Mass (GVM) and Maximum Gross Combination Mass (GCM) must not be exceeded.**

Touareg Variant	Model Code	Maximum Gross Vehicle Mass (GVM)	Maximum Gross Combination Mass (GCM)
170TDI	RC834J	2,850 kg	6,350 kg
210TDI Elegance/ R-Line	RC8*7J	2,850 kg	6,350 kg
340PHEV R	RC8RZJ	3,020 kg	6,520 kg

# Glossary

## 4MOTION all-wheel drive

A permanent all wheel drive system that provides the best possible traction at all road speeds, in all weather and road conditions.

The Touareg's power is handled by a transfer box bolted directly to the 8 speed automatic gearbox. The asymmetric/dynamic torque distribution by the centre differential is based on a purely mechanical system. Locking power is generated in the centre differential in proportion to the drive torque. The locking power and basic distribution of the transfer box result in the drive torque that is transferred to the front and rear axles. Approx. 70% of the drive torque can thus be directed to the front axle or approx. 80% to the rear axle depending on the driving situation and road surface. Furthermore, the mechanical torque distribution by the centre differential works closely with the wheel specific drive torque regulation by the ESC.

## 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 Touareg 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 Touareg 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. 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 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.

## 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.

## 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, Off-road and Individual. The Normal profile offers a comfortable but dynamic driving style. Sport provides faster response of the accelerator pedal, sportier damping and steering. Eco mode has been designed to enhance fuel efficiency 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.

## 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.

## 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.



# Glossary

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 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 Pedestrian Monitoring

The Front Assist is both a high and low speed AEB monitoring system which 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.

At vehicle speeds below 30km/h, Front Assist monitors the area ahead of the car for vehicles which might present a threat of collision. If a collision is likely, Front Assist 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, Front Assist independently applies the brakes very hard. If the driver intervenes to try to avoid the accident, either by accelerating hard or by steering, Front Assist will deactivate and allow the driver to complete the avoidance manoeuvre.

Pedestrian Monitoring is an extension of the Front Assist monitoring system. The system uses a camera to monitor the side of the road and 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. Using the camera the system detects pedestrians on the side of the road and gives an immediate acoustic and visual signal to warn the driver of the possibility of danger. If the radar sensor then detects the pedestrian/cyclist and 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 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.

## 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.

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.

# Glossary

## Night Vision

Standard to the R is Night Vision technology. The night vision system gives the driver greater visibility of persons and animals much earlier than with just headlights. The driver is informed early of potential hazards and, if necessary, warned to minimise the stopping distance in critical situations. The infrared camera provides a live thermal image (black and white) which is shown on the Digital Cockpit. Objects that stand out from the environment due to greater heat radiation appear lighter in the image while the cooler environment is depicted darker. The system requires that darkness is detected and the headlights are switched on. The system is deactivated at ambient temperatures higher than 28°C. It is not activated automatically again until the temperature falls below 25°C, however a thermal image may still appear. The range of the system is influenced by weather conditions and detection performance is limited in the rain.

When a person or animal is in the warning range, the system notifies the driver with an acoustic warning sound. At speeds >50km/h, the thermal image is displayed or at speeds <50km/h, the red warning symbol for Front Assist is displayed. The brakes are pre-filled and the threshold in the brake assist system switches to increased sensitivity. If a person is detected, a marker light flashes in the direction of the person three times as long as no oncoming traffic will be dazzled and the vehicle is travelling outside built-up areas.

Night Vision is an optical driver assistance system, the system may misinterpret situations in certain cases resulting in incorrect warning or no warnings. Night Vision cannot replace the driver's attentiveness. The driver is still legally responsible for the vehicle.

## Park Assist & Park Assist Plus

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 Plus, further aides the driver by taking over the throttle, braking and gear change functions. After starting the normal Park Assist process, the system will indicate that Park Assist Plus is available on the multi-function display. By simply holding the Park Assist Auto button on the infotainment system, the Touareg will automatically change gears and control the throttle, braking and steering to guide the vehicle into the intended spot. The driver must remain attentive at all times and can slow the parking manoeuvre or stop the vehicle at any time by depressing the brake pedal.

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.

## Travel Assist

Travel Assist is an assistance system for partly automated driving. At the push of a button, Travel Assist can support the driver in monotonous and tiring driving situations commonly encountered on long motorway journeys. This system combines the functions of Adaptive Cruise Control (ACC), Lane Assist with adaptive lane guidance and Side Assist to accelerate, brake and maintain the vehicles position within its lane. The capacitive steering wheel can detect whether the driver's hands are on the steering wheel in readiness to steer the vehicle and will issue a visual and audible warning when not detected.

Travel 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. Travel Assist has been developed for use only on motorways. 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.







# Touareg R

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