The 2018 Atlas Introduction

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Introduction

2018 Atlas Product Features

The Atlas is a 7-passenger SUV designed for the North American market and targeted towards families. The Atlas appears very substantial, yet still follows Volkswagen’s design philosophy of “simplicity and precision.” One primary focus was on function, including a third row of seats that are easy to access and can comfortably accommodate adults. The chassis for the Atlas is Volkswagen’s Modular Transverse Matrix (MQB) flexible vehicle architecture.

This SSP will introduce you to the highlights of the 2018 Atlas.

- MIB II Infotainment System
- Car-Net
- LED Taillamps
- Adaptive Cruise Control
- Virtual Instrument Cluster
- Three Seating Rows
- Panoramic Sunroof
- LED Headlamps
- Four Driving Modes
- Rear Traffic Alert
- 8-Speed Automatic Transmission
- Lane Assist
- Blind Spot Monitor

For more information on the Modular Transverse Matrix (MQB) Chassis Concept, please read SSP 890243, the 2015 Golf Design and Function.

Not all features listed are standard equipment.
Body

2018 Atlas Distinguishing Features

Headlamp Design/ LED Headlamps

Taillamp Design
**Technical Data**

**Exterior Dimensions and Weights**

<table>
<thead>
<tr>
<th>Exterior Dimensions</th>
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<tbody>
<tr>
<td>Length</td>
<td>198.2 in</td>
</tr>
<tr>
<td>Width</td>
<td>77.9 in</td>
</tr>
<tr>
<td>Height</td>
<td>69.6 in</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>117.2 in</td>
</tr>
<tr>
<td>Overall width</td>
<td>88.5</td>
</tr>
<tr>
<td>Track width at front</td>
<td>67.2 in</td>
</tr>
<tr>
<td>Track width at rear</td>
<td>67.8 in</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weights/Details</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Curb weight</td>
<td>4221 - 4556 lb</td>
</tr>
<tr>
<td>Gross vehicle weight</td>
<td>5621 - 5997 lb</td>
</tr>
<tr>
<td>Maximum roof load</td>
<td>200 lb</td>
</tr>
<tr>
<td>Tank capacity</td>
<td>18.6 gal</td>
</tr>
</tbody>
</table>
Panoramic Sunroof

The optional Panoramic Tilting/Sliding Sunroof is a two-piece large glass opening system that is 4.46 ft. (1360 mm) long and 2.85 ft (870 mm) wide. The front glass element will tilt and open, and the rear glass is stationary.

An electronically-controlled sunshade helps to control light and heat from the sun.

Operation:

• Pressing up on the sunroof switch once moves the sunroof to the vent position (raised 1.2 in (31mm))
• Pressing the sunroof switch back once moves the glass element almost to the fully-open position (anti-buffeting position).
• Pressing the button again moves the front glass to the completely open position.
• The glass can be moved to any distance between fully opened and fully closed using the sunroof switch.
• When the roof panel is opened, an integrated wind deflector rises from the front edge to minimize wind noise.
Body

Seat Configuration

The Atlas is the first Volkswagen SUV with 3rd row seating. It’s available in 6-person and 7-person configurations. Multiple configurations add flexibility to the seating, loading and cargo needs.

The middle bench and third row seats can fold flat for additional cargo space.

Lower Anchors and Tethers for Children (LATCH) and Top Tethers

- The center bench row has three LATCH mounts - one at each seating position
- The center captain’s chairs have two LATCH mounts - one at each seating position
- The third row has Top Tethers

Seat Heating and Ventilation (optional)

- The front seats can be heated and ventilated
- The center row outboard seats can be heated
- The center row captain’s chairs can be heated

Sliding and Tilting Seats

The middle row of the Atlas is available with a bench seat that slides forward and backwards, and can tilt for easy entry into the third row. The center row seats are a 60/40 split, and both sections can be folded, slid and tilted independently. Multiple configurations are shown below.
The captain chairs tilt up and forward for ease of access to the third row seats (not shown).
Cargo Capacity

The Atlas has substantial cargo capacity, especially since the back two rows of seats fold completely flat.

**All rows of seats upright:**
Cargo space = 20.6 ft³ (0.6 m³)

**Third row of seats folded flat:**
Cargo space = 55.5 ft³ (1.6 m³)

**Second and third rows of seats folded flat:**
Cargo space = 96.8 ft³ (2.7 m³)
Storage Compartments

There are numerous storage compartments in the new Atlas. There are storage options for every seating position.
Body

Storage Compartments continued...

- Front Doors, with 1-Liter Bottle Holder
- Rear Doors with Cupholder and Two Storage Areas
- Left 3rd Row Area with Cupholders and Two Storage Areas
- Three Cupholders in Armrest (Rear Bench Seat)
- Right 3rd Row Area with Cupholders and Tablet Holder
- Luggage Compartment with Multiple Storage Areas, Luggage Cover Storage and Side Storage Areas
Memory Seats

The driver’s 10-way power seat is available with seat position memory. The driver profiles can be accessed through the MIB Infotainment System.

Towing

All Atlas vehicles will have the capability to tow a trailer. The base towing capability of the Atlas is approximately 2,000 lbs*. When the towing package is installed on the 3.6L Atlas, the towing capability is boosted to approximately 5,000 lbs. Always check the Owner’s Manual for the specific towing capabilities for the vehicle.
Engines and Transmissions

2.0L TSI Engine

The 2.0L TSI engine is an EA888 engine design.

Technical Features

- Cylinder head with integrated exhaust manifold
- Roller bearing balance shafts
- Smaller crankshaft main bearings with only four counterweights
- Turbocharger with electrical wastegate flap actuation
- Reduced oil pressure
- Sump with upper aluminum section and lower plastic section
- Accessory bracket with integrated oil filter and oil cooler

<table>
<thead>
<tr>
<th>Displacement</th>
<th>1984 cm³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bore</td>
<td>82.5 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>92.8 mm</td>
</tr>
<tr>
<td>Valves Per Cylinder</td>
<td>4</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>9.6:1</td>
</tr>
<tr>
<td>Horsepower</td>
<td>175 kW (235 hp) from 4,500 to 6,200 rpm</td>
</tr>
<tr>
<td>Torque</td>
<td>349 Nm (258 lb/ft) from 1,600 to 4,400 rpm</td>
</tr>
<tr>
<td>Engine Management</td>
<td>SIMOS 18.1</td>
</tr>
<tr>
<td>Fuel</td>
<td>87 Octane</td>
</tr>
<tr>
<td>Emission Treatment</td>
<td>Three-way catalytic converter, one upstream broadband lambda probe of the turbocharger and one step-type lambda probe downstream of the catalytic converter</td>
</tr>
<tr>
<td>Emission Standard</td>
<td>LEV 3</td>
</tr>
</tbody>
</table>
3.6L FSI Engine

The 3.6L FSI engine with 4-valves per cylinder is based on the VR engine series.

Technical features

- Optimized for lower oil pressures
- Non-engaged chain tensioner
- One-part oil pump chain sprocket
- Exhaust camshaft adjuster with 32° setting range
- Vibration damper secured with 7 bolts

Additional information on this engine is available in SSP 823603, the 3.2L and 3.6L Engines.
The 09P (AQ450) 8-speed automatic transmission is the only transmission used in the Atlas. It is available as both a two- and four-wheel drive configuration. The 2.0L engine will only be available in two-wheel drive. The 3.6L engine will be available as both two- and four-wheel drive.

This transmission is based on the Aisin 09G transmission, but incorporates a different design and components, such as:

- Additional planetary gearsets
- Additional hold and drive components
- A different valve body
- An Electro-Magnetic Oil Pump (EMOP) solenoid to keep the 1st gear C1 clutch engaged during Start-Stop operation, ensuring a smooth transition from a stopped engine to takeoff

This transmission has the same final drive ratio as the 09G/M transmission.
Running Gear

All-Wheel Drive System

The Atlas has available all-wheel drive on some models. This system has a different version of the AQ450 automatic transmission that provides output to the rear wheels.

Driving Modes

The driving mode selection capability is only available on All-Wheel Drive Atlas vehicles. This allows the customer to switch between:

- Snow
- On-Road
- Off-Road
- Custom Off-Road

Each of these modes has different engine, transmission, steering, and ACC settings.
Running Gear

On-Road Setting

The On-Road setting is the default driving mode. When the On-Road setting is selected, the driver can choose any of the following modes using the infotainment system:

- Eco Mode - a low consumption mode, affecting the HVAC and ACC systems. This mode is not available when towing.
- Normal Mode - Balanced settings for everyday driving
- Sport Mode - Reduces power steering assist and puts the ACC system into sport mode. Engine response is more direct and transmission shift points are changed.
- Custom Mode - Allows you to select the following settings:
  - Steering - Normal or Sport
  - Drive System - Normal, Sport or Eco
  - ACC - Normal, Sport or Eco
  - Climate Control - Normal or Eco

Snow Setting

- Activates the 4Motion AWD system to provide better acceleration on icy or snow covered roads and to improves lane holding when cornering
- The ACC function is restricted
- The Sport selector lever position will not function in this mode
- The Snow Mode presets cannot be changed:
  - Steering - Sport
  - Drive System - Snow
  - ACC - Eco
  - Climate Control - Normal
Running Gear

Off-Road Setting

The Off-Road Setting is used when driving on loose surfaces off of normal pavement.

• Provides greater acceleration sensitivity.
• Gears are held to assist with engine braking
• The Hill Start Assist and Hill Descent Control are active
• Sport Mode cannot be activated in Offroad Mode
• The Off-Road Settings cannot be changed:
  – Steering: Normal
  – Drive System: Offroad
  – ACC: Normal
  – AWD: Offroad
  – Hill Hold Assist: ON
  – Hill Descent Control: ON
  – Park Assist: ON
  – Climate Control: Normal

Custom Off-Road Setting

• Allows customization of the Offroad Mode settings through the Infotainment System:
  – Steering: Normal or Sport
  – Drive System: Normal or Sport
  – ACC: Normal, Sport or Eco
  – AWD: Normal or Offroad
  – Hill Hold Assist: ON or OFF
  – Hill Descent Control: ON or OFF
  – Park Assist: ON or OFF
  – Climate Control: Normal or Eco
  – Reset: Returns all above settings to the default settings
Running Gear

Driver Assistance Systems at a Glance

The Atlas has a wide array of driver assistance systems. This SSP will provide a short overview of these systems.

Driver Assistance Systems:

• Front Assist with Autonomous Emergency Braking
• Adaptive Cruise Control (ACC)
• Lane Assist (Lane Departure Warning)
• Blind Spot Monitoring
• Rear Traffic Alert
• Park Distance Control
• Park Assist (Automatic Parking Assistant)

None of these Driver Assistance systems are designed to relieve the driver of any driving responsibilities!

These systems are described in greater detail in SSP 890253, Volkswagen Driver Assistance Systems.
Running Gear

Front Assist Overview

The Forward Collision Warning system is designed to alert the driver when a possible impact is detected. A radar sensor in the front bumper is used to detect the distance between vehicles.

The Front Assist system not only alerts the driver audibly and visually, but also has the capability to apply the brakes. The warning and brake applications occur in four stages:

1. Visual and acoustic warning. Brake system prefills in preparation for braking
2. Brake jolt to further alert driver
3. Advanced automatic partial braking
4. Full braking to avoid a collision
Adaptive Cruise Control Overview

The Adaptive Cruise Control (ACC) system is designed to enhance the cruise control system by altering the vehicle speed to match the pace of traffic. When there is no traffic, the vehicle will maintain a preset speed, just like cruise control. If the ACC vehicle comes up on a slower vehicle, ACC will automatically match the speed of the slower vehicle and follow at a preset following distance. When the vehicle ahead is no longer there, ACC will speed up to maintain the preset speed.

A radar sensor located at the front of the vehicle is constantly scanning to detect objects or vehicles ahead. The ACC multifunction steering wheel controls or stalk on the steering column allow for activation, deactivation and setting a preferred distance to the vehicle ahead.

The ACC system on the Alas is designed to bring the vehicle to a complete stop if necessary. If this happens, the only thing the driver needs to do to continue ACC operation is tap the accelerator pedal.
Running Gear

Lane Assist Overview

The Lane Assist system on the Atlas can both warn the driver and provide turning resistance for the steering wheel.

The front camera at the base of the rearview mirror is constantly scanning the road ahead for lane markings. It processes these lane markings with other signals to determine if the vehicle is staying in the lane or leaving the lane.

If the vehicle seems likely to leave the lane without driver input, the system automatically counteracts the steering to keep the vehicle in the lane. This countersteering is continual and gentle. However, it can be overridden by the driver at any time with relative ease.

Also, if the driver attempts to leave the lane without a turn signal, the system will provide resistance to the steering wheel. If a turn signal is used, no resistance will be applied.
Blind Spot Monitoring

The Blind Spot Monitoring system uses radar sensors at the rear of the vehicle to continually scan for traffic next to and behind the vehicle. It warns the driver when a vehicle is in a “blind spot,” helping to avoid accidents.

The system has an information stage and a warning stage. If the system detects a potential risk without a lane change being indicated (turn signal not activated), the driver is informed by the warning lamp in the corresponding exterior mirror housing.

The warning stage is activated if there is a potentially hazardous situation and the driver indicates a lane change by using the corresponding turn signal.
Rear Traffic Alert Overview

The rear radar sensors used for Blind Spot Monitoring are also used for Rear Traffic Alert. Rear Traffic Alert warns of approaching vehicles when backing out of a parking spot.

The radar sensors measure the distance and the speed difference between your vehicle and an approaching object and uses this to calculate the time until a possible collision.
Running Gear

**Park Distance Control 360° Overview**

Park Distance Control (PDC) uses ultrasonic sensors to alert the driver of objects in front of and behind the vehicle when parking or backing up. In this section we will discuss the system that has 360° visibility.

The 360° PDC monitors and displays the front, rear and sides of the vehicle.

The Infotainment display of the side areas is calculated from the PDC sensors because their scanning does not include the vehicle sides. Objects that appear on the sides are remembered from the front or rear sensors, and move along the side based on driving direction, steering angle and the ABS system (distance).
Park Assist Overview

Park Assist helps the driver to park a vehicle in parallel or perpendicular parking spots. It controls the vehicle steering while the driver must control the accelerator and brake inputs.

This semi-automatic parking system allows for perpendicular parking (spaces 90° to the lane) and parallel parking on the right or left of the lane. It will not only park the vehicle, but can also be used to get the vehicle out of parking spots.

Parking Distance Control (PDC) sensors sense the vehicle and open areas. This system has six sensors, just like the PDC 360° system. These side sensors are used to detect open spaces when the system is active.

The sensor information, vehicle speed from the ABS Control Module and the steering angle are used to calculate the location of an open spot relative to the vehicle. When a spot is detected, the system will automatically choose either parallel or perpendicular, depending on what it thinks is best. You can change this choice by pressing the Park Assist button.

### Parallel Parking

The Parallel Parking specifications are:

- Vehicle length plus,
- Extra space of at least 1.3 ft (0.4 m) at both the front and rear for maneuvering and safety
- Maximum speed of 25 mph (40 km/h)

### Perpendicular Parking

The Perpendicular Parking specifications are:

- Vehicle width plus,
- Extra space of at least 1.1 ft (0.35 m) for maneuvering and safety
- Maximum speed of 25 mph (40 km/h)
Electrical Systems

Electrical Components

Depending on the equipment level, the 2018 Atlas has an alternator with either a 150 A or 180 A output. The 180 A alternator is installed with the factory-installed towing package. The alternator load is controlled by the Data Onboard Diagnostic Interface J533 using a LIN-Bus network.

The battery is located in the engine compartment for all models.

Electrical Boxes

Three electrical boxes/fuse holders distribute electricity in the vehicle:

- SA - Located on top of the battery. Contains larger, higher voltage supply cables
- SB - Located on the left side of the engine compartment. Contains fuses and relays
- SC - Located at the bottom left of the instrument panel. Contains relays and fuses

To find out the precise location of various fuses and relays, please refer to the relevant wiring diagram in ElsaPro.
Electrical Components continued...

Relay and Fuse Holder SC at the Bottom Left of the Instrument Panel
Electrical Systems

Front Headlights

The front headlights have multiple LED components:

- Main beams
- High beams
- Daytime running lights
- Turn signal (orange)

The front headlights have a 640 lumen output.
Rear Taillamps

The taillamps have a combination of LED and incandescent components:

- Brake lamp and running lamp (Incandescent, LED for SEL Premium)
- Side marker lamp (LED for all)
- Reverse lamp (Incandescent, LED for SEL Premium)
- Turn signal lamp (orange bulb, incandescent for all)
Ambient Lighting

The Atlas has extensive interior ambient lighting in the front seats that functions both as a functional and design element. The brightness can be controlled using the MIB dimming function.

Functional:

- Interior and reading lights (halogen)
- Vanity mirrors (halogen)
- Footwell illumination (halogen)
- 1st seat warning lights in front doors (optional)
- Luggage compartment illumination (halogen, optional)

Ambient:

- Dashboard illumination (LED)
- Front door illumination (LED)
- Cup holder illumination (LED)
Network design

The Atlas CAN-Bus system is based on the MQB CAN-Bus systems. All CAN-Busses communicate at 500K.
Electrical Systems

The CAN-Buses

Powertrain CAN-Bus

The Powertrain CAN-Bus has changed slightly when compared to other Volkswagen vehicles. The Power Steering Control Module J500 has moved from the Powertrain CAN-Bus to the Running Gear CAN-Bus. There are also two NOx sensors connected to the J623 Engine Control Module.

Key

- J217  Transmission Control Module
- J234  Airbag Control Module
- J533  Data Bus Onboard Diagnostic Interface
- J623  Engine Control Module
- GX10  Oxygen Sensor Before Catalytic Converter

Infotainment CAN-Bus

The Infotainment CAN-Bus is very similar to other Volkswagen MQB CAN-Busses. However, there is a MOST-Bus that connects some control modules for video display transfer.

Key

- G683  Front Information Display Control Head
- J285  Instrument Cluster Control Module
- J362  Anti-Theft Immobilizer Control Module
- J794  Information Electronics Control Module
- J533  Data Bus Inboard Diagnostic Interface
- R12   Amplifier
- R189  Rearview Camera
- FBAS  Color Video Blanking Signal
- LVDS  Low Voltage Differential Signalling
Running Gear CAN-Bus

Volkswagen’s Running Gear CAN-Busses continue to grow as more driver’s assistance modules are added to the vehicles. In addition, this CAN-Bus has some influence over the headlamps and cornering lamps. J745 is connected to both the Running Gear CAN-Bus and the Comfort and Convenience CAN-Bus for different functions.

Key

- J104  ABS Control Module
- J428  Distance Regulation Control Module
- J446  Parking Aid Control Module
- J492  All Wheel Drive Control Module
- J500  Power Steering Control Module
- J533  Data Bus Onboard Diagnostic Interface
- J667  Left Headlamp Power Output Module
- J668  Right Headlamp Power Output Module
- J745  Cornering Lamp and Headlight Range Control Module
- J769  Lane Change Assistance Control Module
- J770  Lane Change Assistance Control Module 2
- J928  Peripheral Camera Control Module
- J981  ESC Control Module
- J1086 Blind Spot Detection Control Module
- J1087 Blind Spot Detection Control Module 2
- R242  Driver Assistance Systems Front Camera
Electrical Systems

**J533 LIN-Bus**

The Data Bus Onboard Diagnostic Interface (Gateway) has several components directly connected to it via LIN-Bus: J533 acts as the load management and controls the alternator charging via LIN-Bus.

**Key**
- CX1 Generator
- J367 Battery Manager Control Module
- J533 Data Bus Onboard Diagnostic Interface
- U13 Converter with Socket

**Extended CAN-Bus**

The Extended CAN-Bus contains some lighting and driver assistance systems. In addition, some of these components have private communication CAN-Busses and are also connected to other CAN-Busses in the vehicle.

**Key**
- EX5 Interior Rearview Mirror
- J428 Distance Regulation Control Module
- J533 Data Bus Onboard Diagnostic Interface
- J745 Cornering Lamp and Headlamp Range Control Module
- J1086 Blind Spot Detection Control Module 1
- J1087 Blind Spot Detection Control Module 2
- MX1 Left Front Headlamp
- MX2 Right Front Headlamp
- R242 Driver Assistance Systems Front Camera
The Convenience CAN-Bus is the most extensive CAN-Bus on the Atlas. Some additions are the towing control module, windshield washer fluid sensor, Car-Net control module and seat fans.
Remote Start

Remote Start Function

Remote start is an option for the Atlas. To activate, press the following buttons within three seconds:

- Locking button once
- Remote Start button twice

The indicator lights will give a confirmation flash and the parking lights will remain illuminated while the vehicle is running. If the remote start feature is not interrupted, the engine runs for about 10 minutes. Two remote starts in a row are possible before a start cycle from inside the vehicle is required.

Liftgate

The Atlas has three different liftgate options:

- Manual liftgate with gas struts
- Power liftgate with electronically-controlled struts. This can be controlled by:
  - Button in the driver’s door
  - Button on the outside of the liftgate to open
  - Button on the inside of the liftgate to close
  - Button on the keyfob
- Virtual Pedal:
  - This has all of the features of the power liftgate and adds keyless access control, which is described on the next page.
Virtual Pedal

The Virtual Pedal is a function of the KESSY Keyless Access system. Its operation is similar to the Virtual Pedal on other Volkswagen vehicles. The Virtual pedal is only available on vehicles with an electric tailgate.

A person with a vehicle key stands in the center of the rear of the vehicle and sweeps a leg quickly to the bumper and back. The shin bone enters the area of the capacitive sensor.

The Virtual Pedal function is only active if:

- There is an authorized remote control key within 2.9 ft (1.5 m) of the rear of the vehicle
- The speed of the vehicle equals 0 mph
- The ignition (term. 15) is OFF
- The engine is OFF

Function:

The Rear Lid Opener Control Module Sensor J938 in the rear bumper recognizes movement and sends a signal to the Access Start System Interface Control Module J965. Using the Access/Start System Antenna in Rear Bumper R1 36 (LF signal with 125 kHz), J965 checks whether there is at least one remote control key in the rear area.

If an authorized key is detected, the 3rd brake light lights up (in the upper area of the rear window) and the rear lid latch releases. This will take place even if the vehicle is locked.
Virtual Instrument Cluster

The 2018 Atlas has an optional instrument cluster that allows the driver to customize the cluster configuration.

The following safety-related warning lamps are still in the form of fixed indicators above the display:

- Turn signals
- Warning lamp for exhaust-related faults
- ABS warning lamp
- Central warning lamp
- Warning lamp for electromechanical power steering faults
- Warning for brake system faults
- Warning for the electromechanical parking brake

The cluster display has the following characteristics:

- 12.3” TFT display with a resolution of 1440 x 540 pixels
- Features all basic functions
- Different displays can be selected
- Automatically changing displays depending on the active function
- Display of 2D and 3D graphics
- Navigation and media display

This Virtual Cluster has the following primary views:

- Vehicle Status
- Driving Data
- Assistance Systems
- Navigation
- Audio
- Views

These screens are accessed using the steering wheel controls. Examples of these screens are provided in the following pages.
Virtual Cluster Design

The Virtual Cluster is connected to the MOST-Bus to display images, animations and navigation maps with little to no delay.
Virtual Cluster Views

Vehicle Status Screen

The Vehicle Status screen displays the current vehicle status.

Driving Data Screens

The Driving Data screens allow the following information to be displayed in the center of the instrument cluster. Some example images are provided below.

- Oil temperature
- Economy
- Average Economy
- Range
- Convenience Consumers
- Travel Time
- Distance
- Average Speed
- Speed Warning
Electrical Systems

Assist Systems Screen

The Assist Systems screen displays the current status and operation of the Adaptive Cruise Control system. In this image, there are no vehicles ahead.

Audio Screen

The Audio screen displays the current song and source/station information.
Navigation Screens

The navigation map normally displayed on the Infotainment display can be displayed in the center of the instrument cluster. In addition, the tachometer and speedometer dials can be reduced in size to display a larger map.

Using the Navigation menu, select Display Map.

This will transfer the map display from the infotainment display to the instrument cluster when Navigation is being used.
To reduce the size of the tachometer and speedometer dials and increase the map size, select Enlarged Map Display.
Views Screens

The six Views screens can display additional information in the center of the tachometer and speedometer dials. These can be used in combination with the other display screens on the previous pages. The Views options are displayed below:

- **Classic View**

- **Gear and Speed**
Electrical Systems

Views Screens continued...

Economy and Range

Economy
Views Screens continued...

[Image of a vehicle's dashboard showing various screens for navigation and driver assist systems.

- **Navigation** screen with options for Classic, Gear & speed, Economy & range, Economy, and Navigation.
- **Driver Assist Systems** screen showing options for Classic, Gear & speed, Economy & range, Economy, Navigation, and Driver assist systems.

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Infotainment Systems

Modular Infotainment Matrix (MIB) II

The 2018 Atlas has three different MIB II Infotainment Systems available. These are:

• Composition Color
• Composition Media
• Discover Media

MIB Configuration

There are two MIB configurations in the Atlas. The Composition Color is a single integrated unit.

The Composition Media and Discovery Media have a display in the instrument panel and a control module located in the glove box.

G683 Front Information Display Control Head + J794 Control Module for Information Electronics
Infotainment Systems

Composition Color

Technical Features

• 6.5” 800X480 px color resistive touchscreen
• Single integrated unit
• Six side keys for functions
• Single-disc, MP3 compatible CD player
• Eight speakers (4 X 20 Watt output)
• SD card slot in the infotainment interface
• AUX-IN located near USB port in center console
• Front USB input that can control a phone and has charging capability
  – This port is backwards compatible and will charge and import media from iPods, MP3 devices, etc. using the device’s USB cable. It operates like the MDI in previous vehicles
  – iPods and other media devices are not integrated into App-Connect and can be accessed through the Media hardkey
  – More USB ports may be available depending on model and trim
• Compatible with Car-Net App-Connect, Security and Service features
• Bluetooth with audio capability (HFP, A2DP, PBAP, AVRCP)
• Double tuner with phase diversity for radio signal reception
Infotainment Systems

Composition Media

Technical Features

All functions of the Composition Color plus:

- 8.0” 800X480 px color resistive touchscreen
- Glass covered panel on infotainment interface
- Swipe and zoom gesture capability
- Eight side keys for functions
- Additional USB Ports (depending on options). These ports provide charging capability and can transfer audio data from the phone to the infotainment system. These ports do not provide smartphone control from the Infotainment system:
  - Center USB input in the center console jumbo box
  - Two USB inputs at the base of the center console for charging only
- (1) SD and (1) CD input in glove box
Discover Media

Technical Features

All functions of the Composition Color plus:

- Navigation functions
- Travel Link information through Sirius XM
- WiFi for Media Control
Infotainment Systems

MIB II Media Inputs

The Atlas has up to five media inputs, depending on trim level and equipment:

- Four USB inputs
- One AUX-IN input

The USB/AUX-IN combination port is located in front of the shifter. This USB port charges, supports audio integration and supports App-Connect.

The remaining three USB inputs are:

- One is located in the jumbo box under the center armrest. This USB port supports data streaming and charging, but not App-Connect
- Two are located at the base of the center console, in the rear. These only support charging
Infotainment Systems

MIB II Media Input Layout

All USB inputs are connected to the USB hub located under the center console. This USB hub communicates with J794, the Information Electronics Control Module 1.

J794 is responsible for:

- Receiving USB information from the USB and AUX-IN ports
- Sending audio and image information through to the Infotainment display and the Virtual Cluster (if equipped)
Antenna Configuration

Key

- J525: Digital Sound System Control Module
- J794: Information Electronics Control Module 1
- R50: GPS Antenna
- R11: Antenna
- R93: Radio Antenna 2
- R108: Left Antenna Module
- R109: Right Antenna Module
- R205: GSM Antenna
- RX5: Roof Antenna
Fender Audio

The optional Fender audio system produces a classic Fender sound, best described as:

- Incredible sound clarity at any volume
- Strong bass
- Clear mid-range sound frequencies

The components of the system are:

- Two speakers in each door
- One speaker per side for the third row
- A subwoofer mounted inside of the spare tire
- A center front speaker in the dash
- A 12-channel 400W amplifier under the driver’s seat
Media Control

Volkswagen offers a Media Control App that allows for communication between the customer’s smartphone or tablet and the infotainment system as an option. With this app, the customer can:

• Play smartphone/tablet content through the stereo speakers
• Operate radio, navigation and sound from anywhere in the vehicle
• Send navigation destinations to the vehicle’s navigation system
Infotainment Systems

Tablet Holder

The tablet holder is a device that can be added to many Volkswagen vehicles.

- It has a bracket that attaches to the headrest posts. This bracket has two hooks for grocery bags or other items.
- A tablet holder can be attached to and easily removed from the bracket.
  - Has a cutout for easy access to Home buttons on many devices.
  - Accommodates devices as small as a phone or as large as an iPad Pro in the landscape direction.
  - Has been tested in vehicle crash scenarios. Please read all warnings and cautions on the tablet holder for more information.

Headrest Bracket with Hooks Extended

Headrest Bracket with Tablet Holder Inserted
Climate Control

The Atlas has both Manual and Climatronic HVAC climate control systems available. Both systems have a second A/C unit for the rear seat occupants.

• The Manual version is a 2-zone system and has separate controls for the front and the rear. This provides two separate temperature zones
Climate Control

- The Climatronic version has three zones; front driver, front passenger and rear passengers
  - The system can be set in Auto or Manual
  - All temperatures can be synchronized using the SYNC function
  - The rear controls can be locked from the infotainment display
  - The heated steering wheel function can be activated using the button in front of the shifter or the infotainment display
Climate Control

Heated and Ventilated Seats

The seat heating and ventilating functions are controlled by separate buttons and can be operated independently or together.

Key

- E265  Rear A/C Display Control Head
- J255  Climatronic Control Module
- J301  A/C Control Module
- J519  Vehicle Electrical System Control Module
- J533  Data Bus Onboard Diagnostic Interface
- V512  Left Front Seat Backrest Fan 1
- V514  Left Front Seat Cushion Fan 1
- V516  Right Front Seat Backrest Fan 1
- V518  Right Front Seat Cushion Fan 1
- Z7    Driver Backrest Heating Element
- Z9    Front Passenger Backrest Heating Element
- Z11   Left Rear Backrest Heating Element
- Z13   Right Rear Backrest Heating Element
- ZX10  Left Rear Seat Heater
- ZX12  Right Rear Seat Heater
- ZX15  Driver Side Heated Seat
- ZX16  Front Passenger Side Heated Seat
Climate Control

Rear HVAC

The rear A/C components are located under the center console of the Atlas. In the image below, the center console trim has been removed and some components are called out.

The rear expansion valve is accessed from under the vehicle, above the exhaust pipe. A heat shield was removed for this picture.
An on-line Knowledge Assessment (exam) is available for this Self-Study Program. The Knowledge Assessment may or may not be required for Certification.

You can find this Knowledge Assessment at: www.vwwebsource.com

For Assistance, please call: Volkswagen Academy, Certification Program Headquarters 1-877-791-4838 (8:00 a.m. to 8:00 p.m. EST)

Or, E-mail: concierge@volkswagenacademy.com

https://www.datarunners.net/vw_crc/default.asp?pageid=home