



ASTON MARTIN

DBX

VEHICLE INFORMATION SHEET





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DBX707

4.0 V8 Engine

| | |
|-------------------------|--|
| | All aluminium alloy, 32-valve, quad cam V8, petrol, liquid-cooled, twin-turbocharged unit featuring: |
| ..... | Independent quad-variable camshaft timing |
| ..... | Cylinder deactivation |
| ..... | Engine Stop/Start |
| ..... | Twin water-to-air charge air coolers |
| Capacity..... | 3982 cc (244 cu. in.) |
| Bore | 83.0 mm (3.3 in.) |
| Stroke | 92.0 mm (3.6 in.) |
| Compression Ratio | 8.6:1 |
| Firing Order | 1-5-4-2-6-3-7-8 |

Idle Speed

| | |
|-------|------------------|
| ..... | 650 rpm |
| ..... | 800 rpm (Sport+) |

Maximum Engine Speed:

| | |
|--|--|
| Maximum Engine Speed (hard fuel cut) | 7000 rpm |
| Maximum Torque | 900 Nm (663 lbf ft) from 2600 - 4500 rpm |
| Maximum Power..... | 707 PS (520 kW/697 bhp) at 6000 rpm |
| Maximum Speed (where permitted) | 193 mph (310 km/h) |
| Acceleration (0-62 mph/0-100 km/h)..... | 3.3 seconds |

Fuel System

| | |
|-------|---------------------------------------|
| | Multi-point sequential fuel injection |
|-------|---------------------------------------|

Ignition

| | |
|-------|-------------------------|
| | “Coil on Plug” ignition |
|-------|-------------------------|

Lubrication System

| | |
|-------|-----------------------------|
| | Wet sump pressurised system |
|-------|-----------------------------|

Emission Control Systems

| | |
|-------|---|
| ..... | Close coupled catalytic converters |
| ..... | Evaporative loss purge system |
| ..... | Gasoline particulate filters (GPFs) (where necessary) |

Transmission

| | |
|-------|---|
| ..... | 9-speed automatic gearbox with Stop/Start ignition support |
| ..... | All wheel drive system with transmission mounted transfer box, electronic rear differential |
| ..... | Front mounted transmission radiator with heat exchanger for transmission and transfer box |



Gear Ratios

| | |
|-----------------------|-------|
| 1 st | 5.354 |
| 2 nd | 3.243 |
| 3 rd | 2.252 |
| 4 th | 1.636 |
| 5 th | 1.211 |
| 6 th | 1.000 |
| 7 th | 0.865 |
| 8 th | 0.717 |
| 9 th | 0.601 |
| Reverse | 4.798 |
| Final..... | 3.27 |

Suspension

- Adaptive triple chamber air suspension
- 4 spring rates linked to drive mode setting
- 95 mm of suspension range

Drive Modes

- Terrain
- GT (default)
- Individual
- Sport
- Sport+

Steering

- Electric Power-Assisted Steering (EPAS) with 14.4:1 steering ratio
- 2.6 turns lock to lock
- Turning circle 12.725 metres (41.75 feet)

Brakes

- Front - Ventilated carbon ceramic disc 420 mm diameter x 40 mm width with 6 piston calipers
- Rear - Ventilated carbon ceramic disc 390 mm diameter x 32 mm width with single piston calipers
- Electronic park brake

Chassis Features

- Electronically Controlled Rear Differential (E-Diff)
- Electronic Brake Force Distribution (EBD)
- Hydraulic Brake Assist (HBA)
- Electronic Active Roll Control (eARC)
- Auto Hold Brake



Dynamic Features

- Adaptive Drive Modes
- Anti-Lock Braking System (ABS)
- 4 Stage Electronic Stability Program (ESP)
- Traction Control (TC)
- Emergency Brake Assist (EBA)
- Electric Parking Brake (EPB)
- Hill Start Assist (HSA)

DBX V8

4.0 V8 Engine

- All aluminium alloy, 32-valve, quad cam V8, petrol, liquid-cooled, twin-turbocharged unit featuring:
- Independent quad-variable camshaft timing
- Cylinder deactivation
- Engine Stop/Start
- Twin water-to-air charge air coolers
- Capacity..... 3982 cc (244 cu. in.)
- Bore 83.0 mm (3.3 in.)
- Stroke 92.0 mm (3.6 in.)
- Compression Ratio 8.6:1
- Firing Order 1-5-4-2-6-3-7-8

Idle Speed

- 650 rpm
- 800 rpm (Sport+)

Maximum Engine Speed:

- Maximum Engine Speed (hard fuel cut) 7000 rpm
- Maximum Torque 700 Nm (516 lbf ft) from 2000 - 5000 rpm
- Maximum Power..... 550 PS (405 kW/542 bhp) at 6000 rpm
- Maximum Speed (where permitted) 181 mph (291 km/h)
- Acceleration (0-62 mph/0-100 km/h)..... 4.5 seconds

Fuel System

- Multi-point sequential fuel injection

Ignition

- "Coil on Plug" ignition

Lubrication System

- Wet sump pressurised system



Emission Control Systems

- Close coupled catalytic converters
- Evaporative loss purge system
- Gasoline particulate filters (GPFs) (where necessary)

Transmission

- 9-speed automatic gearbox with Stop/Start ignition support
- All wheel drive system with transmission mounted transfer box, front and electronic rear differentials
- Front mounted transmission radiator with heat exchanger for transmission and transfer box

Gear Ratios

| | |
|-----------------------|-------|
| 1 st | 5.354 |
| 2 nd | 3.243 |
| 3 rd | 2.252 |
| 4 th | 1.636 |
| 5 th | 1.211 |
| 6 th | 1.000 |
| 7 th | 0.865 |
| 8 th | 0.717 |
| 9 th | 0.601 |
| Reverse | 4.798 |
| Final..... | 3.066 |

Suspension

- Adaptive triple chamber air suspension
- 4 spring rates linked to drive mode setting
- 95 mm of suspension range

Drive Modes

- Terrain+
- Terrain
- GT (default)
- Individual
- Sport
- Sport+



Steering

- Electric Power-Assisted Steering (EPAS) with 14.4:1 steering ratio
- 2.6 turns lock to lock
- Turning circle 12.725 metres (41.75 feet)

Brakes

- Front - Ventilated and grooved steel disc 410 mm diameter x 38 mm width with 6 piston calipers
- Rear - Ventilated and grooved steel disc 390 mm diameter x 32 mm width with single piston calipers
- Electronic park brake

Chassis Features

- Electronically Controlled Rear Differential (E-Diff)
- Electronic Brake Force Distribution (EBD)
- Hydraulic Brake Assist (HBA)
- Electronic Active Roll Control (eARC)

Dynamic Features

- Adaptive Drive Modes
- Anti-Lock Braking System (ABS)
- 4 Stage Electronic Stability Program (ESP)
- Traction Control (TC)
- Emergency Brake Assist (EBA)
- Electric Parking Brake (EPB)
- Hill Descent Control (HDC)
- Hill Start Assist (HSA)



DBX V8 and DBX707

Suspension Geometry

Refer to Workshop Manual procedure 42.01.AA - Check and Adjust the Four Wheel Alignment (Check and Adjust).

Vehicle Body

- 4 door SUV with 2+3 seating
- Aluminium bonded monocoque bodyshell
- Aluminium and composite body panels
- Panoramic glass sunroof and frameless door

Interior Dimensions

Front

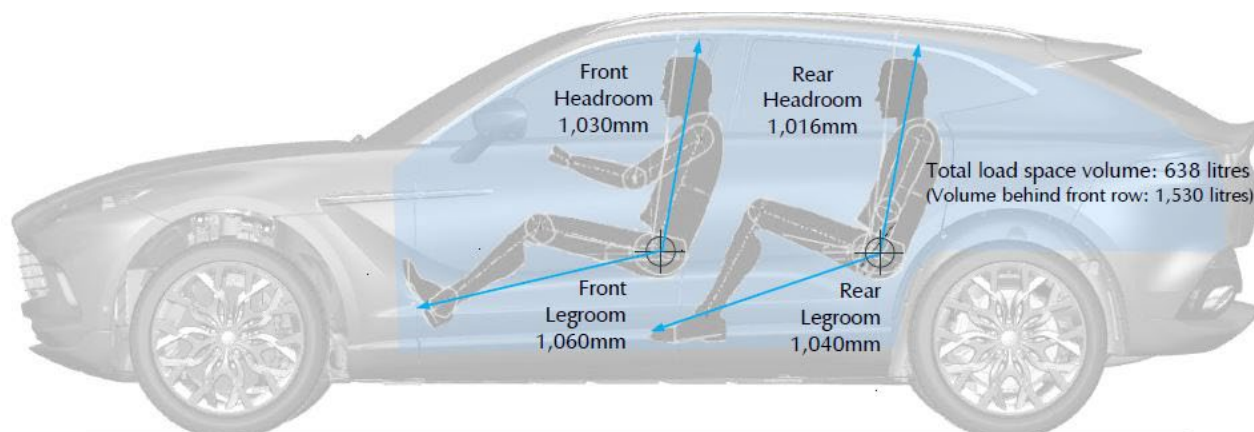
- Effective Headroom..... 1030 mm
- Effective Leg-room..... 1060 mm
- Effective Shoulder-room 1485 mm

Rear

- Effective Headroom..... 1016 mm
- Effective Leg-room..... 1040 mm
- Effective Shoulder-room 1385 mm

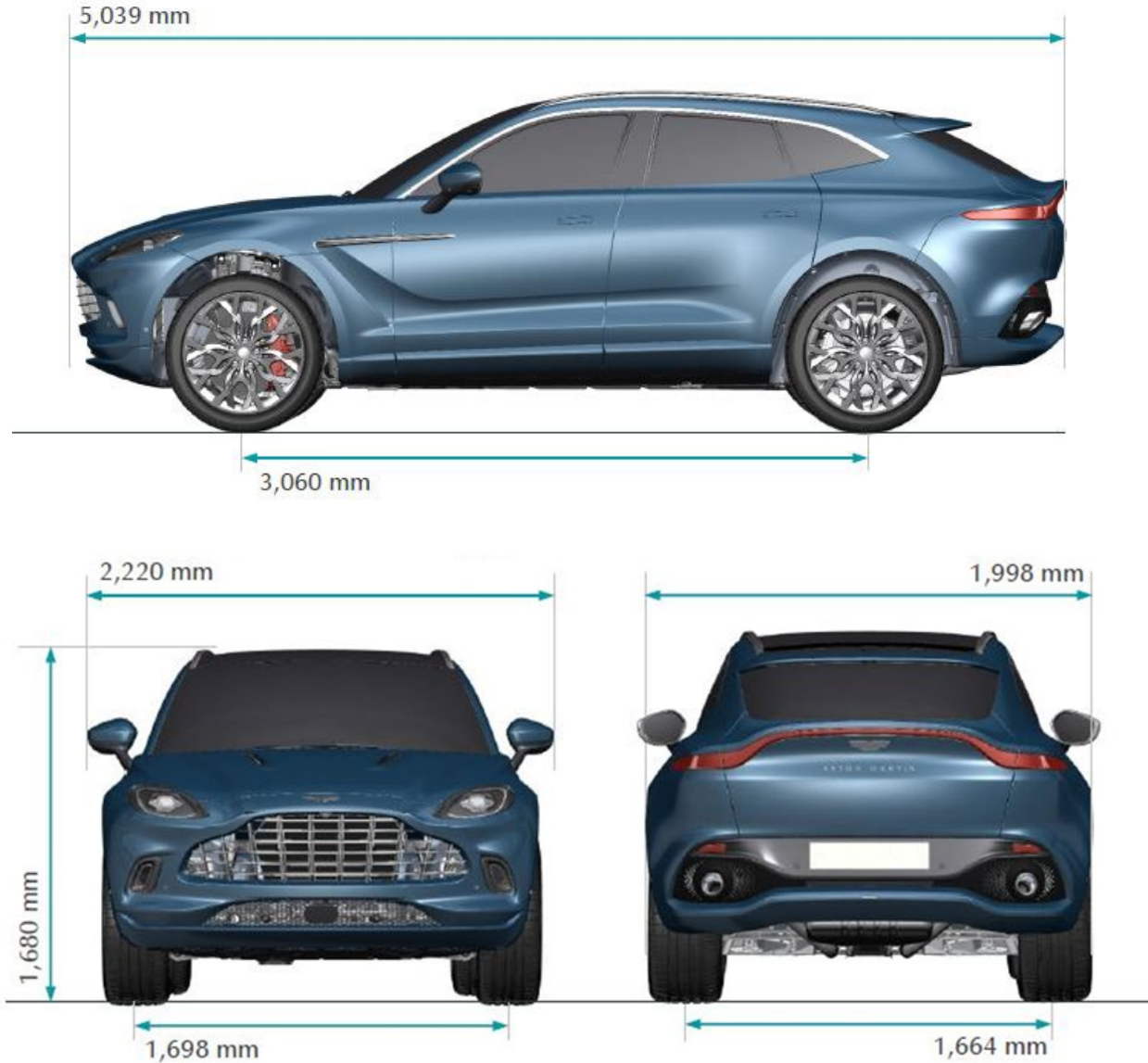
Loadspace Dimensions

- Load Space Volume (to roof) 638 litres
- Load Space Volume (under load cover)..... 491 litres
- Load Space Volume (with rear seats down) 1530 litres
- Cargo Length (up to rear seats)..... 1021 mm
- Cargo Length (up to front seats) 1780 mm
- Cargo Width (maximum) 1161 mm
- Cargo Height (floor to parcel shelf) 482 mm
- Cargo Height (floor to headlining)..... 693 mm
- Lift in Height (in access height)..... 810 mm

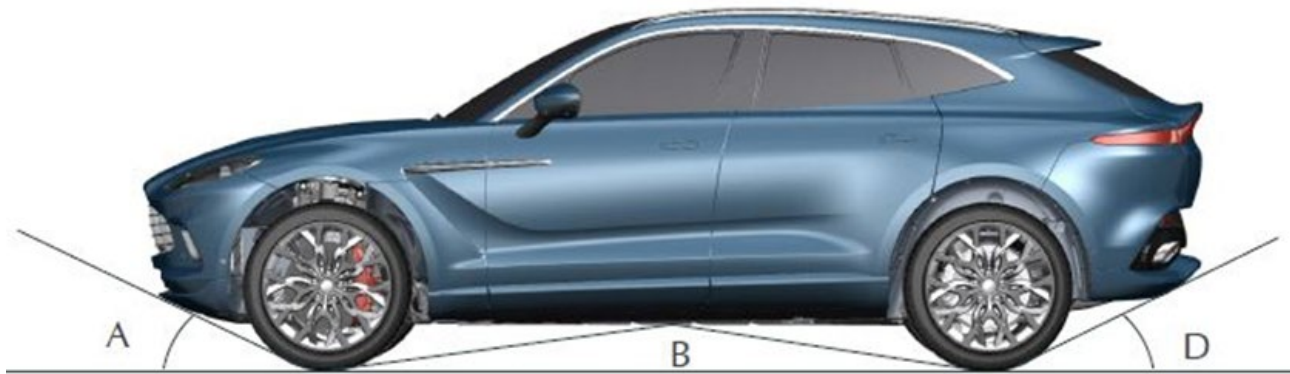


Exterior Dimensions

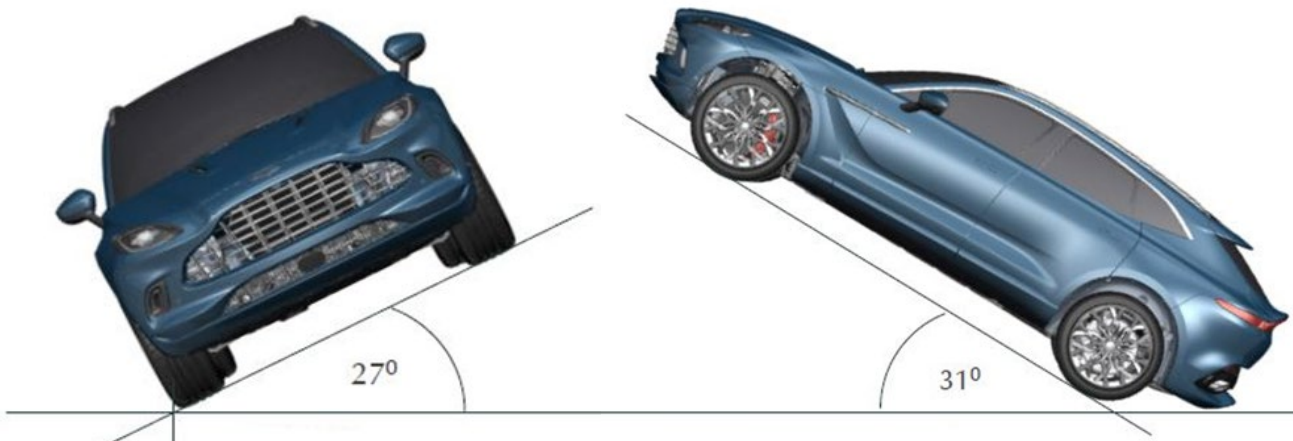
| | |
|-----------------------------|---------|
| Length..... | 5039 mm |
| Width | 1998 mm |
| Width (mirrors folded)..... | 2050 mm |
| Width (mirrors out)..... | 2220 mm |
| Height..... | 1680 mm |
| Wheelbase..... | 3060 mm |
| Overhang (front)..... | 915 mm |
| Overhang (rear)..... | 1064 mm |
| Track (front) | 1698 mm |
| Track (rear)..... | 1664 mm |



Multi-Terrain Capabilities



| Clearances | GT | Terrain + (Not available on DBX707) |
|---------------------|--------|-------------------------------------|
| A - Approach Angle | 22° | 26° |
| B - Breakover | 15° | 19° |
| D - Departure Angle | 24° | 27° |
| Ground Clearance | 190 mm | 235 mm |





Vehicle Weights

| | |
|---|---------|
| Unladen Mass | 2245 kg |
| Gross Vehicle Weight (DBX V8 GVW)..... | 3035 kg |
| Gross Vehicle Weight (DBX707 GVW)..... | 2960 kg |
| Unbraked Towing Capacity | 750 kg |
| Maximum Payload (The Americas)..... | 680 kg |
| Maximum Payload (DBX V8 ROW) | 730 kg |
| Maximum Payload (DBX707) | 660 kg |
| Maximum Luggage Compartment Load | 100 kg |
| Maximum Roof Load (DBX V8 Includes Mounting Equipment)..... | 100 kg |
| Maximum Roof Load (DBX707 Includes Mounting Equipment) | 75 kg |
| Braked Towing Capacity..... | 2700 kg |
| Maximum Tow Bar Nose Load (Detachable)..... | 120 kg |
| Maximum Tow Bar Nose Load (2 inch/50mm)..... | 227 kg |
| Gross Train Weight (DBX V8 GTW) | 5735 kg |
| Gross Train Weight (DBX707 GTW)..... | 5660 kg |

Battery Information

| Battery Voltage | 12V | 48V |
|--------------------|-------------------------------------|-------------|
| Type | Banner H8 Absorbent Glass Mat (AGM) | Lithium-Ion |
| Rated Voltage | 12V | 48V |
| Capacity | 92 Ah (K20) | 20 Ah (K20) |
| Cold Cranking Amps | 520 (DIN), 850 (EN) | N/A |

To access the vehicle battery, refer to workshop manual procedure: 63.01.AH – Battery Assembly (Remove and Install New Part).

WARNING: THE 48V BATTERY MUST NEVER BE USED IN A JUMP START SCENARIO TO EITHER SUPPLY OR RECEIVE POWER. THERE IS A RISK OF SERIOUS DAMAGE TO THE BATTERIES AND THE ELCTRICAL SYSTEM ON ONE OR BOTH VEHICLES, WHICH CAN CAUSE INJURY OR DEATH.

WARNING: NEVER CONNECT EXTERNAL ELECTRICAL EQUIPMENT, SUCH AS A BATTERY CHARGER, TO THE 48V BATTERY. THERE IS A RISK OF SERIOUS DAMAGE TO THE BATTERIES AND THE ELECTRICAL SYSTEM, WHICH CAN CAUSE INJURY OR DEATH.



Lubricants, Fluids and Capacities

| Use | Lubricant/Fluid | Quantity |
|---|--|--|
| A/C Compressor Oil (V8) | Denso ND12, or Daphne Hermetic 1234YF or meets the specifications of PAG oil ISO 46YF. | 80 cc |
| A/C Refrigerant | HFO-1234yf/R1234yf. | 750 ± 10g |
| Brake Fluid | Castrol React Performance DOT 4. | 1.06 litres/1.12 US quarts |
| Coolant: | | |
| DBX V8 Engine | 50% BASF Glyscantin® G40®/50% clean water. | 15.18 litres/16.04 US quarts |
| DBX V8 Engine (Remote Park Heat system installed UK & EUR) | | 16.27 litres |
| DBX V8 Charge Cooler | | 10.1 litres/10.7 US quarts |
| DBX707 Engine | 50% BASF Glyscantin® G40®/50% clean water. | 16.02 litres/16.93 US quarts |
| DBX707 Engine (Remote Park Heat system installed UK & EUR) | | 17.1 litres |
| DBX707 Charge Cooler | | 8.92 litres/9.43 US quarts |
| V8 Engine Oil (Service Fill) | Premium-branded fully-synthetic high-performance engine oil of viscosity SAE 0W-40 which meets, or is better than the requirements of specifications API SN or ILSAC GF-5. | 9 litres/9.5 US quarts |
| Fuel | Minimum octane rating 95 RON unleaded fuel. 98 RON Super unleaded recommended for optimum performance. | 87 litres/23.0 US gallons total capacity |

| | | |
|--------------------------------------|---|----------------------------|
| DBX V8 Automatic Transmission | Shell GTL D971, or meets the specifications of MB 236.17. | 9.3 litres/9.8 US quarts |
| DBX707 Automatic Transmission | Shell GTL D971, or meets the specifications of MB 236.17. | 7.8 litres/8.2 US quarts |
| Transfer Case | Fuchs Titan EG ATF134FE, or meets the specifications of MB 236.15. | 0.73 litres/0.77 US quarts |
| Front Differential | Fuchs Titan Sintopoid FE 75W-85, or meets the specifications of MB 239.72 or MB 235.74. | 0.55 litres/0.58 US quarts |
| DBX V8 Rear Differential | Castrol Syntrax Limited Slip 75W-140, or meets the specifications of MB 235.61. | 1.20 litres/1.26 US quarts |
| DBX707 Rear Differential | Castrol Syntrax Limited Slip 75W-140, or meets the specifications of MB 235.61. | 1.68 litres/1.78 US quarts |
| Screen Wash Reservoir | Solution of clean water and screenwash concentrate, mixed in proportions applicable to possible ambient temperatures. | 4.24 litres/4.4 US quarts |

Wheel and Tyre Information

Summer/All Season Tyres

- **Pirelli P-Zero (Summer)**
- **Pirelli Scorpion Zero (All Season)**

| | Offset | Pitch Circle Diameter (PCD) | Centre Bore | Wheel Size | Tyre Size | Tyre Pressure |
|--------------|--------|-----------------------------|-------------|------------|------------|------------------|
| Front | ET56 | 128 mm | 75 mm | 9.5J x 21 | 285/45/R21 | 2.6 Bar (38 Psi) |
| | ET56 | 128 mm | 75 mm | 10J x 22 | 285/40/R22 | 2.6 Bar (38 Psi) |
| | ET56 | 128 mm | 75 mm | 10J x 23 | 285/35/R23 | 2.8 Bar (40 Psi) |
| Rear | ET50.5 | 128 mm | 75 mm | 11J x 21 | 315/40/R21 | 2.6 Bar (38 Psi) |
| | ET56 | 128 mm | 75 mm | 11.5J x 22 | 325/35/R22 | 2.6 Bar (38 Psi) |
| | ET48 | 128 mm | 75 mm | 11.5J x 23 | 325/30/R23 | 3.1 Bar (45 Psi) |
| Spare | | 128 mm | 75 mm | 6.5J x 21 | 195/65/R21 | 4.2 Bar (60 Psi) |



Winter Tyres

- **Pirelli Scorpion Winter**

| | Offset | Pitch Circle Diameter (PCD) | Centre Bore | Wheel Size | Tyre Size | Tyre Pressure |
|--------------|--------|-----------------------------|-------------|------------|------------|------------------|
| Front | ET56 | 128 mm | 75 mm | 9.5J x 21 | 285/45/R21 | 2.8 Bar (40 Psi) |
| | ET56 | 128 mm | 75 mm | 10J x 22 | 285/40/R22 | 2.6 Bar (38 Psi) |
| Rear | ET50.5 | 128 mm | 75 mm | 11J x 21 | 315/40/R21 | 2.6 Bar (38 Psi) |
| | ET56 | 128 mm | 75 mm | 11.5J x 22 | 325/35/R22 | 2.6 Bar (38 Psi) |

Note: Tyres have a maximum load rating not less than 1060 kg (2337 lbs) front and 1180 kg (2601 lbs) rear, or a load index of 110 (front) and 114 (rear).

WARNING: THE RECOMMENDED WINTER TYRES HAVE LOWER MAXIMUM SPEED AND LOAD RATINGS THAN THOSE RECOMMENDED FOR SUMMER USE. WHEN YOU INSTALL WINTER TYRES, YOU MUST REDUCE THE MAXIMUM SPEED LIMIT OF THE VEHICLE.

Wheel Bolt Tightening

Refer to Workshop Manual procedure: 42.01.AB – Wheel and Tyre (Remove and Install New Part).