



ABOVE & BEYOND



DEFENDER

THE NEW LAND ROVER
DEFENDER
MEDIA INFORMATION 2019



CONTENTS

OVERVIEW



INTRODUCING THE NEW LAND ROVER DEFENDER

AN ICON REIMAGINED FOR THE 21ST CENTURY



DESIGNED WITH PURPOSE, ENGINEERED TO EXCITE:

Clever and characterful with an instantly recognisable silhouette that features signature Defender elements, including short front and rear overhangs

LOOKS TOUGH, IS TOUGH:

Durable new D7x architecture engineered to withstand the Extreme Event Test procedure, above & beyond the normal standard for an SUV

WORLD-CLASS EXPERT OFF AND ON-ROAD:

Land Rover Defender redefines breadth of capability, all-terrain ability is beyond question, on-road comfort adds to its character

EXPEDITION-READY:

A maximum payload of up to 900kg, static roof load of up to 300kg, dynamic roofload of 168kg, towing capacity of 3,720kg* and wading depth of up to 900mm combine to make Defender the ultimate 4x4 for overland adventures

INTELLIGENT OFF-ROAD TECH:

Land Rover's pioneering Terrain Response 2 technology moves the game on again with new Wade programme and world-first off-road Configurable Terrain Response allowing experts and novices to optimise traction no matter the conditions

ON-ROAD COMFORT:

Defender is composed on any road surface with supreme comfort ensuring long journeys are covered with ease

EFFICIENCY AT ITS HEART:

Electrified powertrains introduced to Defender with advanced mild-hybrid and plug-in electric vehicle options, as well as powerful and efficient petrol and diesel engines

21ST CENTURY TECHNOLOGY:

Debuts new Pivi Pro infotainment featuring an intuitive interface while Software-Over-The-Air updates provide the latest software at all times, anywhere in the world

REDUCTIONIST, PURPOSEFUL INTERIOR:

The functional, durable and flexible interior is unique with exposed structural elements and a centre front jump seat – perfect for sharing adventures with the family

MEET THE FAMILY:

Defender 110 available with 5+2 seating with four distinct Accessory Packs (Explorer, Adventure, Country and Urban) and 170 individual accessories, will be joined by a smaller Defender 90 and versatile and durable commercial models

CAPABLE OF GREAT THINGS:

Defender has the inner strength necessary to make great things happen. The champion of those with the courage to provide help where others dare not, or cannot go

GLOBAL PARTNERS:

Land Rover to continue long-term humanitarian partnership with the International Federation of Red Cross and Red Crescent Societies (IFRC) with Defender at the heart of it

CHOOSE YOUR MODEL:

90 commercial will be priced from £35,000 (plus VAT), 90 bodystyle indicative price of £40,000 and 110 starting at £45,240 in the UK.

Configure yours at WWW.LANDROVER.COM/DEFENDER

* US market only (3,500kg for UK, Europe and RoW)

SEVEN DECADES

This is the New Land Rover Defender. An icon reimagined for the 21st century, it is clever, capable and safe for all the family, and in a category of its own.

Defender is built for adventurous hearts and curious minds, for those who know the value of community and strive to make a difference.

The unmistakable silhouette is familiar yet new. It looks tough and is tough but designed with purpose and engineered to excite. Iconic in name, shape and capability, Defender can be personalised to allow owners to make the most of their world.

Across seven decades of pioneering innovation, Land Rovers have earned a unique place in the hearts of explorers, humanitarian agencies and adventurous families across the world. Proven in the harshest environments on earth, the Defender maintains this bloodline.





EMOTIONALLY CHARGED DESIGN

Beside the peerless luxury and refinement of the Range Rover family and the highly capable and versatile Discovery SUVs, New Defender completes the Land Rover dynasty. The 110 is just the start for this family of the most capable and durable 4x4s in the world. It will be swiftly followed by a compact, short wheelbase 90, before a pair of practical commercial models join the line-up in 2020.

Driven by a passion and respect for the original, Defender delivers a transformational breadth of capability. Advanced all-terrain technologies redefine adventure for the 21st century, remaining true to the pioneering spirit that has been a Land Rover hallmark for 71 years.

A distinctive silhouette makes the Defender instantly recognisable, with minimal front and rear overhangs providing excellent approach and departure angles. Land Rover's designers re-envisioned familiar Defender Trademarks for the 21st century, giving the new 4x4 a purposeful upright stance and Alpine light windows in the roof, while retaining the side-hinged rear tailgate and externally-mounted spare wheel that make the original so identifiable.



“The New Defender is respectful of its past but is not harnessed by it. This is a new Defender for a New Age. Its unique personality is accentuated by its distinctive silhouette and optimum proportions, which make it both highly desirable and seriously capable – a visually compelling 4x4 that wears its design and engineering integrity with uncompromised commitment.”

GERRY MCGOVERN
CHIEF DESIGN OFFICER
LAND ROVER





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SEATING CONFIGURATION

The stripped-back personality of the original Defender has been embraced inside, where structural elements and fixings usually hidden from view have been exposed, with the emphasis on simplicity and practicality. Innovative features include a dash-mounted gear shifter to accommodate an optional centre front 'jump' seat, which provides three-abreast seating across the front like early Land Rovers.

As a result, the Defender 110 offers five, six or 5+2 seating configurations, with a loadspace behind the second-row seats of up to 1,075-litres and as much as 2,380-litres when the second row is folded. The Defender 90 will be able to accommodate six occupants in a vehicle the length of a compact family hatchback.

User-friendly features include practical touches and advanced technological innovations. Durable rubberised flooring shrugs off the spills of daily adventures and once-in-a-lifetime expeditions, providing a brush or wipe clean interior. An optional full-length Folding Fabric Roof provides an open-top feel. It also allows passengers in the second-row seats of the Defender 110 to stand up when parked to provide the full safari experience**.

** Retractable fabric sunroof available from launch on Defender 90. Introduced on 110 in 2020.

- 1. 5+2 SEATS
- 2. 6 SEATS WITH FRONT JUMP SEAT
- 3. 5 SEATS WITH CENTRE CONSOLE
- 4. 4 SEATS WITH CENTRE CONSOLE
- 5. 3 SEATS WITH CENTRE CONSOLE
- 6. 2 SEATS WITH CABIN WALK-THROUGH



THE DEFINITION OF DURABILITY

Land Rover's new purpose-engineered D7x (for extreme) architecture is based on a lightweight aluminium monocoque construction to create the stiffest body structure Land Rover has ever produced. It is three times stiffer than traditional body-on-frame designs, providing perfect foundations for the fully independent air or coil sprung suspension and supports the latest electrified powertrains.

The New Defender has been through more than 62,000 tests for engineering sign-off, while the chassis and body architecture have been engineered to withstand Land Rover's Extreme Event Test procedure – repeated and sustained impacts, above and beyond the normal standard for SUV and passenger cars.

During development testing, prototype models have covered millions of kilometres across some of the harshest environments on earth, ranging from the 50-degree heat of the desert and sub 40-degree cold of the Arctic, to altitudes of 10,000ft in the Rocky Mountains in Colorado.

WORLD-CLASS EXPERT OFF AND ON-ROAD

A transformational breadth of capability sets the Defender apart. Permanent all-wheel drive and a twin-speed automatic gearbox, centre differential and optional Active Locking Rear Differential ensure it has all the hardware required to excel in the soft sand of the desert, the freezing tundra of the arctic and everywhere in between.

Configurable Terrain Response debuts on the Defender, allowing experienced off-roaders to fine-tune individual vehicle settings to perfectly suit the conditions, while inexperienced drivers can let the system detect the most appropriate vehicle settings for the terrain, using the intelligent Auto function.

The new body architecture provides ground clearance of 291mm and world-class off-road geometry, giving the 110 approach, breakover and departure angles of 38, 28 and 40 degrees (off-road height) respectively. Its maximum wading depth of 900mm is supported by a new Wade programme in the Terrain Response 2 system, which ensures drivers can ford deep water with complete confidence.

On dry land, Land Rover's advanced ClearSight Ground View technology helps drivers take full advantage of Defender's all-conquering capability by showing the area usually hidden by the bonnet, directly ahead of the front wheels, on the central touchscreen.

As a result, Defender redefines a breadth of capability, raising the threshold for both off-road ruggedness and on-road comfort. It can negotiate crowded city streets as effortlessly as climbing mountains, crossing deserts and withstanding freezing temperatures. Its carefully honed handling delivers both a rewarding drive and first-class long-haul comfort across all terrains.



POWER AND EFFICIENCY

A choice of advanced petrol and cleaner diesel engines ensure the Defender has the power, control and efficiency for any environment, while a Plug-in Hybrid Electric Vehicle (PHEV) powertrain will join the range next year providing the prospect of silent EV-only progress.

At launch, the petrol line-up comprises a four-cylinder P300 and a powerful six-cylinder P400, featuring efficient Mild Hybrid Electric Vehicle technology. Alternatively, customers can choose from a pair of four-cylinder diesels – the D200 and powerful D240 – both of which deliver fuel economy of 37.2mpg (7.6 l/100km) and CO₂ emissions of 199g/km (NEDC equivalent).

Innovative engineering solutions support the efficiency drive, including a flat underbody, which both optimises aerodynamic performance (as low as 0.38Cd) and protects the vehicle's underbody.

* The figures provided are as a result of official manufacturer's tests in accordance with EU legislation. For comparison purposes only. Real world figures may differ. CO₂ and fuel economy figures may vary according to factors such as driving styles, environmental conditions, load and accessories. EV range figures are based upon production vehicle over a standardised route. Range achieved will vary dependent on vehicle and battery condition, actual route and environment and driving style.





21ST CENTURY TECHNOLOGY

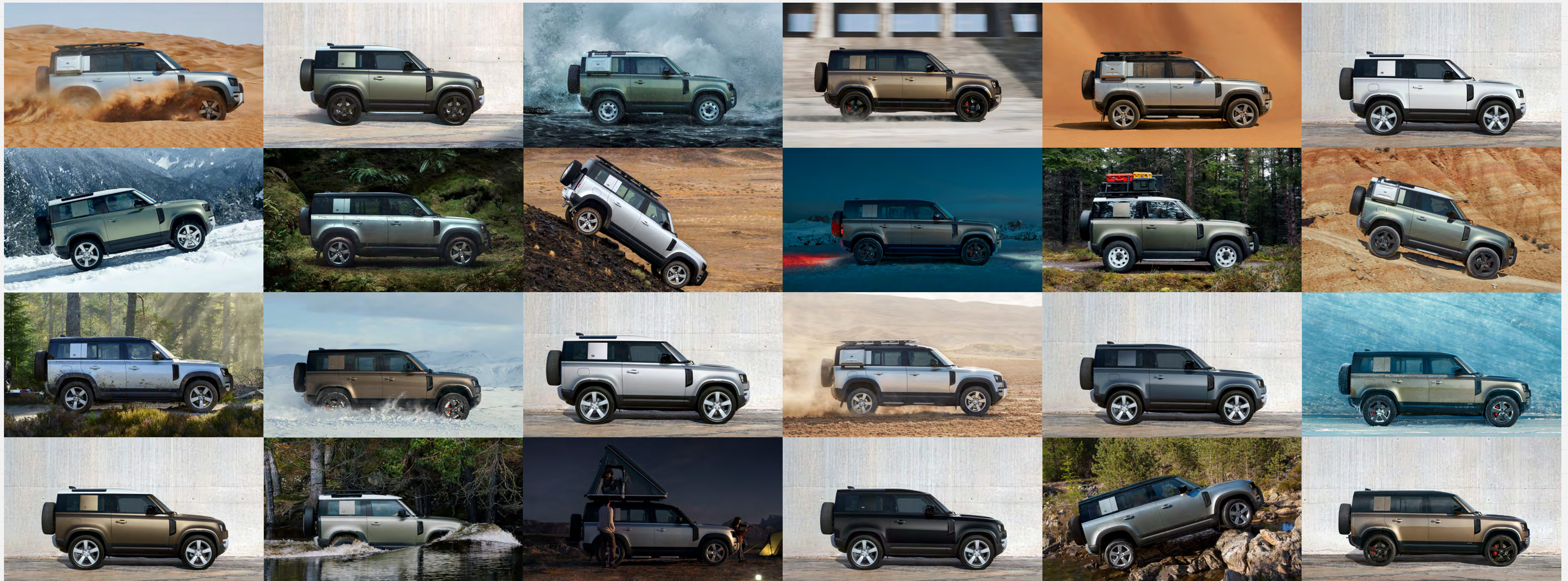
New Defender is as technologically advanced as it is durable. It introduces Land Rover's new Pivi Pro infotainment system. The next-generation touchscreen is intuitive and user-friendly, requiring few inputs to perform frequently used tasks, while its always-on design guarantees almost instant responses.

In addition, Defender takes Software-Over-The-Air (SOTA) technology to a new level, with 14 individual modules capable of receiving remote updates. By downloading data while customers are asleep at home or in far-flung locations, the Defender will get better with age: as electronic updates cascade down to the vehicle immediately, without delay and with no need to visit a Land Rover retailer.*

* All in-car features should be used by drivers only when safe for them to do so. Drivers must ensure they are in full control of their vehicle at all times.

“We've embraced Defender's stunning capability and minimalistic, functional interior to reinvent the icon for the 21st century. New Defender gives us the licence to do things differently, to push the boundaries and do the unthinkable, without ever losing the character and authenticity of the original. From the start we had an absolute obsession with functionality beneath the skin, from choosing the right materials through to state-of-the-art connectivity. The result is not only the most capable Land Rover ever made, but also a truly comfortable, modern vehicle that people will love to drive.”

NICK ROGERS
EXECUTIVE DIRECTOR, PRODUCT ENGINEERING
JAGUAR LAND ROVER



PERSONALISED FOR YOUR WORLD

Defender will be available in 90 and 110 body designs, with up to six seats in the 90 and the option of five, six or 5+2 seating in the 110. The model range comprises Defender, First Edition and top-of-the-range Defender X models, as well as Standard, S, SE, HSE specification packs. Customers will be able to personalise their vehicle in more ways than any previous Land Rover with four Accessory Packs. The Explorer, Adventure, Country and Urban Packs each give Defender a distinct character with a specially selected range of enhancements. The exclusive First Edition model features a unique specification and will be available throughout the first year of production.

Customers will also be able to opt for a new Satin Protective Film to make the exterior paintwork even more durable. The wrap helps protect against everything from car park scratches to bramble rash and will be available as a factory-fit option with Indus Silver, Gondwana Stone and Pangea Green colours, providing a unique contemporary finish as it protects the Defender's paintwork.

In addition to the Accessory Packs, Defender is available with the widest choice of individual accessories ever assembled for a new Land Rover, with everything from a Remote Control Electric Winch^o, Rooftop Tent and an Inflatable Waterproof Awning to more conventional tow bar systems and roof racks.

^o Remote Control Electric Winch and Winch Mounting Kit available early 2020.

“New Defender will be available in 128 global markets and meets or exceeds the toughest emissions and safety requirements in the world. Combining advanced technology and durable mechanical underpinnings, we have delivered the toughness and character you can only find in a Defender. Our new 4x4 has been developed for adventurous hearts and curious minds. With four personalities to choose from, two body styles and a comprehensive range of options and accessories, customers will be able to personalise Defender to make their ultimate 4x4 companion – whatever their lifestyle.”

FELIX BRÄUTIGAM
CHIEF COMMERCIAL OFFICER
JAGUAR LAND ROVER

An intuitive online configurator lets customers personalise their Defender quickly and easily. To choose your perfect specification go to:

WWW.LANDROVER.COM/DEFENDER





DESIGN

REINVENTING A DESIGN ICON



□ PERFECT PROPORTIONS FOR DESIGN AND FUNCTION:

Minimal front and rear overhangs and high sill for supreme all-terrain capability. Highly desirable and seriously capable.

□ CHARACTERFUL DESIGN:

New Defender's distinctive silhouette is a modern interpretation of the original. Strong, confident, sophisticated design. There is nothing else like it.

□ COMPELLING INTERIOR:

Modular and highly functional, underpinned by its practical layout and reductive design. Exposed structural elements for functionality and durability.

□ MULTI-FACETED CHARACTERS:

Four Accessory Packs created to accommodate different lifestyle choices, all equally desirable and relevant.

□ MATERIAL INNOVATION:

Defender is available with a highly durable Satin Protective Film. Materials and finishes that challenge convention.

DISTINCTIVE SILHOUETTE

Land Rover has defined all-terrain capability and toughness from the conception of its very first 4x4. The Series and Defender models before it, have gone above and beyond for decades, securing iconic status for their ability to help people make more of their world. The New Defender takes these much loved characteristics and reimagines them for the 21st century.

The result is a visually compelling vehicle that couldn't be anything else but a modern Defender for a world that has changed massively since the original was created.

With its distinctive silhouette and optimum proportions, Defender has toughness at its core while its interior's rugged modular architecture embraces the spirit of adventure that has been a fundamental part of Land Rover DNA for more than 70 years.

Defender's high sills, short overhangs and externally mounted rear wheel facilitate all conquering off-road capability, its elemental yet sophisticated surfaces combined with a strong horizontal emphasis communicate the Defender's tough and purposeful character.

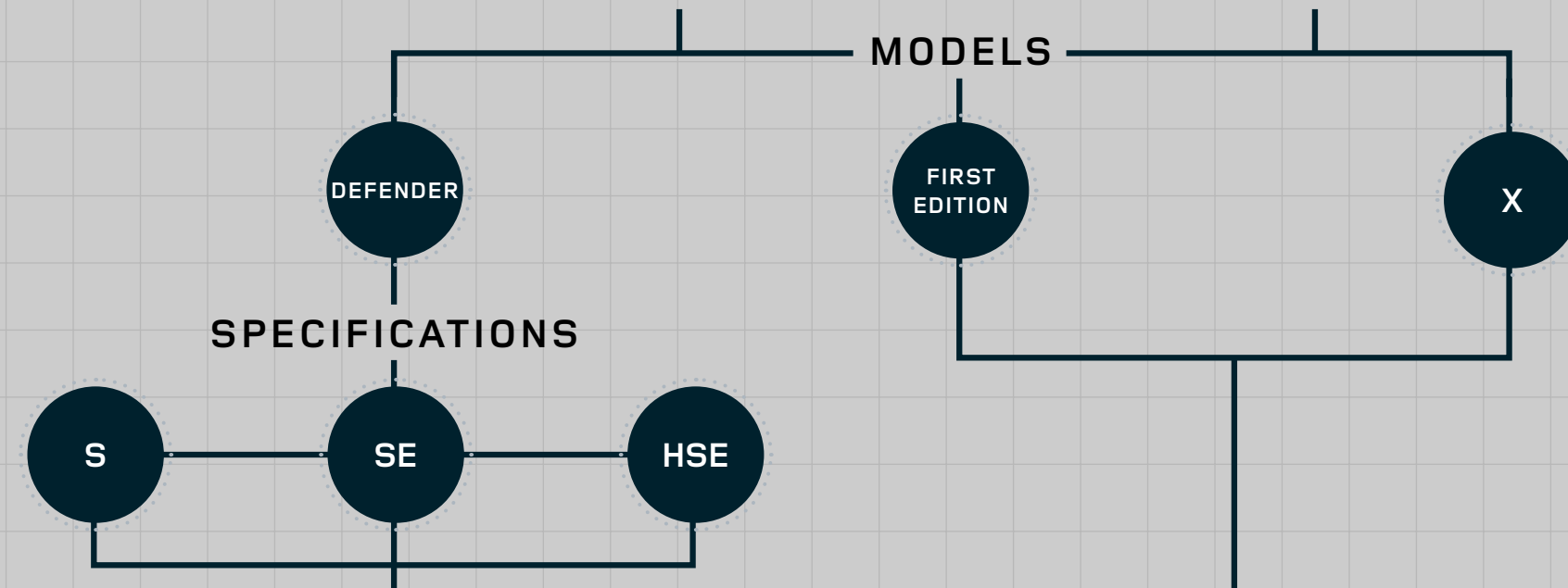
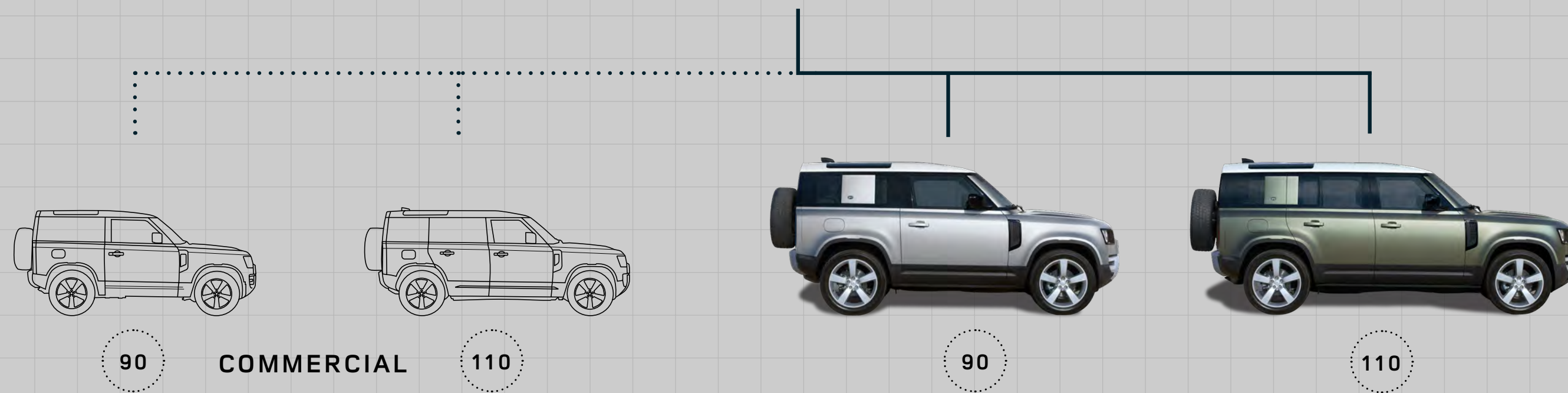


“The New Defender is respectful of its past but is not harnessed by it. This is a new Defender for a New Age. Its unique personality is accentuated by its distinctive silhouette and optimum proportions, which make it both highly desirable and seriously capable – a visually compelling 4x4 that wears its design and engineering integrity with uncompromised commitment”

GERRY MCGOVERN
CHIEF DESIGN OFFICER
LAND ROVER



DEFENDER



Make your own path. Adventure Pack equips Defender for time spent in the wild.

Make journeys truly memorable. Country Pack takes you effortlessly off the beaten track, however demanding the landscape.

Confront the unmapped extremes. Explorer Pack equips Defender for any environment that dares stand in its way.

For the concrete jungle, with touches of individuality. Urban Pack turns heads while staying true to Defender.

MEET THE FAMILY

The New Defender is available in perfectly proportioned 90 and 110 body designs, which share the same short overhangs, with six models available; Defender, S, SE, HSE, Defender X and First Edition, with practical commercial models set to join the line-up next year.

Customers can also select from the widest range of accessories ever produced by Land Rover, including a choice of four Accessory Packs: Explorer, Adventure, Country and Urban.

These additional characters have been designed to give customers even more choice, all are compelling and equally desirable and demonstrate the ability of this vehicle to embrace different personalities without compromising the integrity of the overall vehicle design.



“This is our vision of a modern Defender. The clean body side contrasts dramatically against the sheer verticality of its front and particularly its rear to create a reassuringly purposeful stance. The overall impression is of an elemental design, yet this clean reductive approach is underpinned by sophisticated surfacing of the highest quality.”

GERRY MCGOVERN
CHIEF DESIGN OFFICER
LAND ROVER





EXTERIOR DESIGN

Defender's characterful front is tough but approachable, emphasised by the geometric forms of its highly technical headlamps which feature the latest adaptive technology, while beautifully sculptured fenders combined with squared wheel arches and strong shoulders all contribute to the vehicle's sense of solidity and robustness.

At the rear, the geometric forms of the distinctive high-tech lamps harmonise perfectly with the front end design.

The sheerness of the rear vertically maintains the short overhang for a superior departure angle, while maximising interior space and accentuating the vehicle's strong shoulder section.

Every detail of the exterior design has been creatively developed to re-enforce Defender's DNA: sophisticated, durable and extremely tough – a vehicle design like no other.

“For us designers, nothing comes close to redesigning the last automotive icon. The design of the New Defender is a manifestation of our modernist design philosophy, elemental yet incredibly sophisticated.”

MASSIMO FRASCELLA
CREATIVE DIRECTOR
LAND ROVER DESIGN





EXTERIOR FINISHES

Land Rover has developed a curated exterior palette with unique colours just for New Defender. A lot of bodywork is exposed in the interior – so the colour palettes are modular between interior and exterior.

On the X derivative, the gloss black inset contrast bonnet is standard along with Gloss Black claddings. To give further differentiation between the X and the Core vehicles, the front and rear skid pans and other detailed exterior parts are coated in a Starlight Satin finish.



SATIN PROTECTIVE FILM

New Defender is the first Land Rover available with a factory-fitted Satin Protective Film, which delivers enhanced design and durability.

The PU-based wrap is applied to external bodywork and gives the standard metallic paint a rich and contemporary satin finish, showing the sophisticated surfacing of the exterior design in the best possible light.

This durable wrap meets rigorous standards and has been developed for the highest performance in extreme conditions.

The film can be removed at any time, making it significantly quicker to repair than standard paint finishes. It is available with Indus Silver, Gondwana Stone and Pangea Green paint options, is solvent free and contains no volatile organic compounds (VOCs).

A choice of 12 wheel designs is available, ranging from 18-inch white-painted pressed steel rims to 22-inch Luna alloys.

Body colour options include three new metallic shades unique to the Defender with Tasman Blue, Pangea Green and Gondwana Stone joining Fuji White, Eiger Grey, Santorini Black and Indus Silver in the colour palette.

CONSTRUCTIVIST INTERIOR DESIGN

Defender's constructivist modular interior architecture communicates its highly functional nature. Underpinned by its practical layout and reductive design. This approach is most evident by the exposed, powder-coated magnesium cross car beam, which is integral to the overall strength of the body architecture.

This structural die-cast magnesium alloy beam, which is available in a range of finishes, features integrated grab handles to aid entry but also for a secure grip when the vehicle is performing serious off-road driving.

The main controls, including the central touchscreen, are ergonomically clustered within the magnesium frame to enable the installation of an innovative optional front row centre seat while also allowing for movement across the front of the cabin.

Practicality is a hallmark of Land Rover interior design and the Defender comes with an abundance of storage opportunities, including a choice of high and low centre consoles.



FRONT ROW CENTRE SEAT

The durable constructivist theme is consistent throughout the interior with visible fixings that retain the structural door casings while partially exposing the painted doors.

This paired-back design philosophy extends to the durable rubberised flooring, which combines with flush door sills to provide genuine mop or brush clean functionality. Other details include cast magnesium features, padded waist rails, grab handles and armrests.

The innovative Front Row Centre Seat (otherwise known as jump seat) allows three people to travel in the front row. Conceived and designed as an occasional seat, the practical addition means the Defender 110 can be specified with five, six or 5+2 seating, while the short-wheelbase Defender 90 can accommodate six occupants in a compact family hatchback length body. When not in use, the seatback folds down to provide a front armrest and oddment stowage, including a pair of additional cupholders.



“Within, we strived to harness Defender’s profound spirit of boundless adventure. A comfortable interior which is at once impeccably handsome for the discerning, shrewd in functionality and prudently qualified in anticipation of any adversity.”

ALAN SHEPPARD
DIRECTOR, INTERIOR DESIGN
LAND ROVER

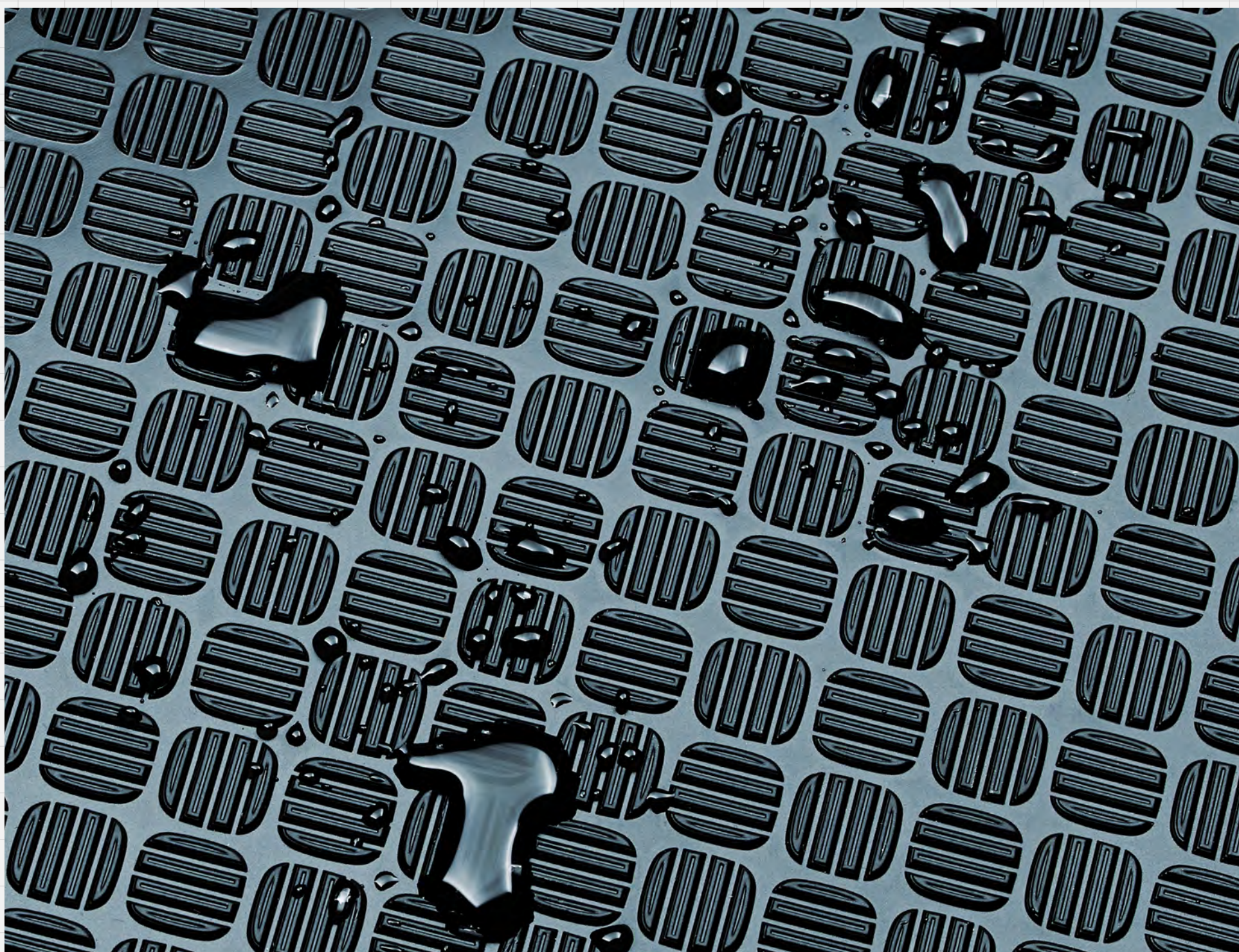
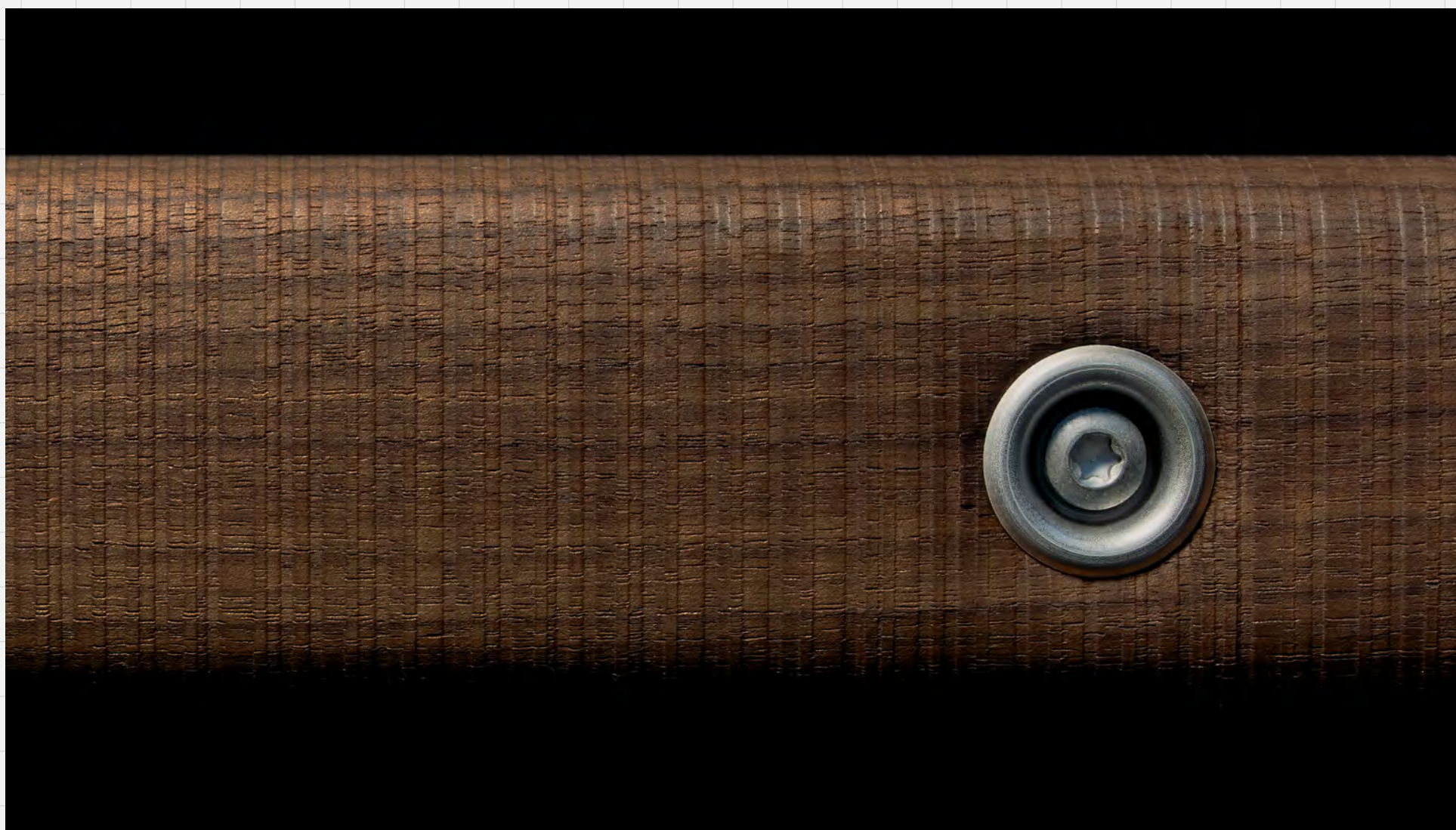


INTERIOR

Comfort is also a key part of New Defender, with interior materials focused on retained newness – so even after thousands of miles of adventure the Defender is sure to look and feel fresh. Customers can choose from three interior colour schemes with scope for personalisation, available by mixing these with different interior finish options.

Material choices include Resolve textile on standard models, while S and SE trims feature Grained Leather combined with a durable Robust Woven Textile featuring higher decitex fibres for added strength (in addition to using recycled polyester), in areas subjected to the most wear. This tough and tactile material pays homage to the canvas hoods fitted to early Series Land Rovers.

HSE models feature high-grade Windsor Leather, while the Defender X features Windsor Leather in combination with Steelcut Premium Textile accent for enhanced durability. This premium textile from Kvadrat is a 30 per cent wool blend and is also available as a full alternative to the leather upholstery paired with Miko Suedecloth.



MATERIALS

With a higher tensile tear strength than conventional materials as well as high breathability, wool naturally regulates the climate keeping you warm in the cold and cool in the heat. These fit-for-purpose materials promise to take off-road thrills and on-road spills in their stride.

Customers can also choose from a curated range of veneers and finishes, which include a rugged rough-cut Walnut or Natural Smoked Dark Oak Veneer, both of which are open pore to give a more natural haptic. Powder coating colours available include Dark Grey for the 'X' derivative and Light Grey as standard on mainline Defender models, with the option of the product-inspired white for all the exposed metal parts.

“Essentially a tool – obtaining this balance of tactility, softness and durability was key to create a modern premium aesthetic for both the interior and exterior materials. We have enabled innovation of materials by creating new approaches to development, challenging conventions of traditional methods of make and modifying existing technologies.”

AMY FRASCELLA

DIRECTOR, COLOUR AND MATERIALS
LAND ROVER

“The New Defender family of vehicles with multiple characters, including commercial derivatives, are all emotionally engaging with modern, relevant design at their core.”

GERRY MCGOVERN
 CHIEF DESIGN OFFICER
 LAND ROVER



CAPABILITY





REDEFINING BREADTH OF CAPABILITY

□ A FRESH CHAPTER OF CAPABILITY WITH COMPOSURE:

The world's most iconic 4x4 and the choice of adventurers and expedition leaders for more than 70 years has been reinvented

□ UNSTOPPABLE CAPABILITY:

New D7x architecture delivers 291mm of ground clearance, optimised approach (38-deg) and departure (40-deg) angles and independent air or coil-sprung suspension*

□ ENGAGING DRIVE:

Rewarding on-road handling with Adaptive Dynamics provides a connected driving experience and supreme long-haul comfort across all terrains and in all conditions

□ TOW KING:

Defender delivers AWD towing capability of up to 3,720kg** with full suite of driver assistance features, including semi-autonomous Advanced Tow Assist technology

□ ALL-SEEING EYES:

ClearSight Rear View Mirror provides enhanced rear vision while ClearSight Ground View invisible bonnet technology shows the hidden area directly ahead of the front wheels

□ RENEWED DEFENDER FAMILY:

The original 4x4 reborn for the 21st century with practical Defender 110 setting new standards for toughness and capability. Commercial model and three-door 90 to follow

□ DRIVETRAIN TECHNOLOGY:

Twin-speed transmission, locking centre differential, Active Rear Locking Differential and Configurable Terrain Response allow driver to optimise Defender for any terrain

□ HIDDEN DEPTHS:

900mm maximum wading depth and new Wade programme within Terrain Response 2 deliver unrivalled driver confidence when fording water

□ EXPEDITION-READY:

Maximum payload of 900kg and up to 300kg static roof load combine with new levels of driver comfort to make Defender the ultimate 4x4 for long-distance adventures

A SYMBOL OF STRENGTH

The Defender has always been a symbol of strength and the new model is the toughest and most capable Land Rover yet, combining a new body structure with world-first technologies and proven hardware to create a Defender that is fit for the 21st century.

The lightweight all-aluminium monocoque construction of the new D7x architecture delivers the stiffest Land Rover body ever created, with a torsional rigidity of 29kNm/Degree – making it three times more rigid than traditional body-on-frame designs. These strong foundations provide the perfect basis for the all-independent suspension, twin-speed transfer box and permanent all-wheel drive.

Configurable Terrain Response makes its debut in the Defender, allowing drivers to fine-tune the set-up of the vehicle to suit the precise off-road conditions like never before. The Terrain Response 2 system also includes a new Wade programme to provide the ultimate reassurance when driving through water by optimising all of the vehicle systems accordingly.

Delivering transformational breadth of capability and on-road handling, Defender is in a category of its own.

The core team of engineers and designers agreed the Defender family would include 90 and 110 body designs, retain the distinctive silhouette, side-hinged rear door arrangement and include a centre front jump seat at the very beginning of the programme.



“We’ve embraced Defender’s stunning capability and minimalistic, functional interior to reinvent the icon for the 21st century. New Defender gives us the licence to do things differently, to push the boundaries and do the unthinkable, without ever losing the character and authenticity of the original. From the start we had an absolute obsession with functionality beneath the skin, from choosing the right materials through to state-of-the-art connectivity. The result is not only the most capable Land Rover ever made, but also a truly comfortable, modern vehicle that people will love to drive.”

NICK ROGERS
EXECUTIVE DIRECTOR, PRODUCT ENGINEERING
JAGUAR LAND ROVER





STRONG AND TOUGH BODY STRUCTURE

To retain the famous Defender silhouette, accommodate a family of body designs and support the latest range of electrified powertrains, Land Rover developed the new all-aluminium D7x platform. It has the unique combination of practicality, flexibility and capability expected from a 4x4 wearing the Defender name and doesn't share a single body-in-white panel with another Land Rover model. This commitment to engineering integrity means the Defender has its own line in body assembly at the new manufacturing facility in Nitra, Slovakia.

Raising the position of the body by 20mm compared to Land Rover's existing range of large SUVs and relocating elements including the battery and cooling circuits, has enabled Land Rover's engineers to deliver ultra-short front and rear overhangs, which guarantee impressive approach and departure angles of 38 and 40 degrees respectively. With a wheelbase of 3,022mm (99mm longer than a Discovery) the 110 has a breakover angle of 28 degrees (31 degrees for the 90) ensuring excellent off-road geometry*.

The short rear overhang, the same for both body designs, is made possible by mounting the spare wheel externally, rather than under the rear floor, where it is readily accessible off-road, and the trademark side-hinged rear door is engineered to accommodate any of the available wheel and tyre combinations.

The comprehensive choice of 18, 19, 20 and 22-inch wheels ranges from utilitarian 18-inch Gloss White Steel rims to 22-inch Gloss Black five-spoke alloy designs. With All-Season or Off-Road tyres available, all with an outside rolling diameter of 815mm, the Defender is available with the biggest contact patch of any Land Rover – for peerless traction and grip in any environment. Specialist Professional Off-Road tyres are also available through Land Rover retailers in selected markets, for customers who need the ultimate capability and robustness.

* Measured in off-road height

SOPHISTICATED CHASSIS

The monocoque body construction developed for New Defender is the stiffest aluminium body Land Rover has ever produced and able to withstand 6.5 tonnes snatch load through the recovery points. This strong, stiff structure provides the perfect foundations for the 4x4's advanced all-independent chassis. The sophisticated double wishbone front and integral link rear suspension optimises off-road performance while delivering excellent handling dynamics and comes with a choice of passive coil or Electronic Air Suspension.

The familiar suspension layout uses all-new components to deliver world-class durability with new steel subframes and uprated ball joints and bushes that are designed to withstand severe off-road impacts – the wheels can withstand up to seven tonnes of vertical load into the body***. As a result, the Defender delivers an unmatched breadth of capability, combining long-haul cruising comfort and rewarding handling characteristics with immediate responses and peerless off-road performance.

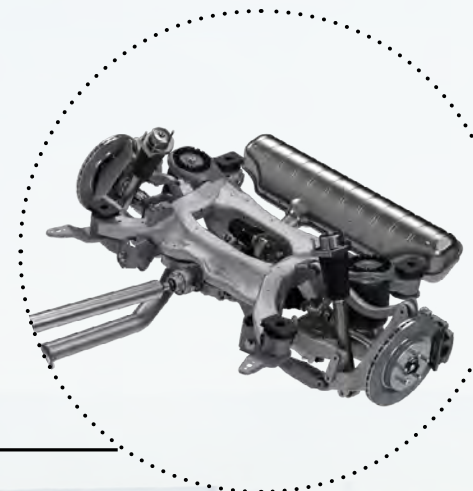
Adaptive Dynamics is available with Electronic Air Suspension, allowing customers to fine-tune the driving characteristics. The system's adaptive dampers monitor body movements up to 500 times per second and respond almost instantaneously to optimise control and comfort.

*** Models fitted with 18- and 19-inch wheels and with off-road tyre

The introduction of air suspension helps to transform the 4x4's on-road handling and supports its all-terrain capability, providing an off-road ride height lift of 75mm and supreme ride comfort across all surfaces. An additional 70mm of lift means the air system can raise the body by a maximum of 145mm when needed, while Elegant Arrival automatically lowers the body by 40mm to aid access.

The confidence-inspiring and sure-footed Defender excels off-road, where its maximum suspension articulation of 500mm comes into its own. It can tackle 45-degree side slopes and inclines of 45 degrees with customary composure, but the biggest transformation comes on the road, where the Defender is engaging and agile.

A transformational breadth of capability sets the Defender apart. Permanent all-wheel drive and a twin-speed automatic gearbox, centre differential and optional Active Locking Rear Differential ensure it has all the hardware required to excel in the soft sand of the desert, the freezing tundra of the arctic and everywhere in between.



SUBFRAMES

Forged steel subframes help create an incredibly strong structure that delivers a comfortable and assured drive, while also ensuring the durability required for Defender

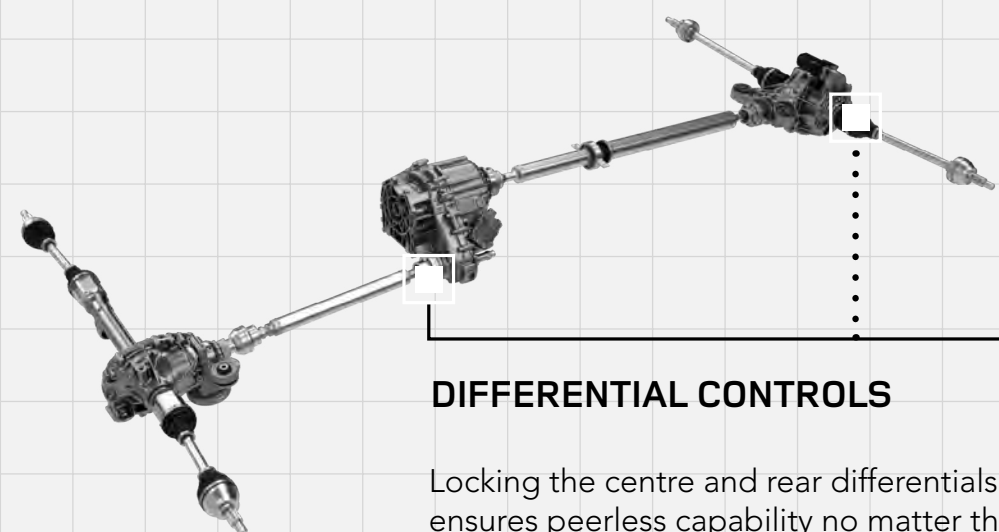


AIR SUSPENSION

Fully independent air suspension irons out any bumps in the road, as well as raising the vehicle to get over extreme obstacles and lowering it for easy entry and egress

MULTI-LINK SUSPENSION

A multi-link suspension is inherently stiff, delivering great refinement on the road. It allows more control over longitudinal and lateral movements ensuring absolute confidence no matter the surface



DIFFERENTIAL CONTROLS

Locking the centre and rear differentials ensures peerless capability no matter the surface, as well as allowing cross-axle slip ensuring a dynamic experience on-road

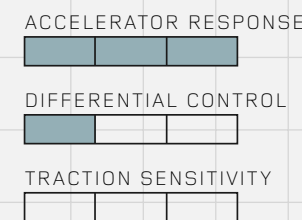
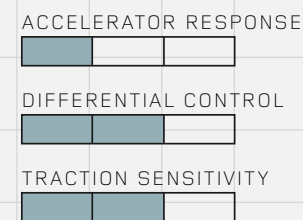
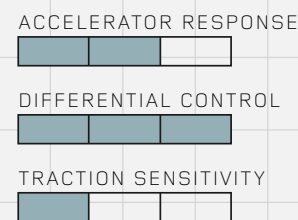
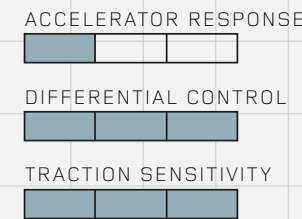
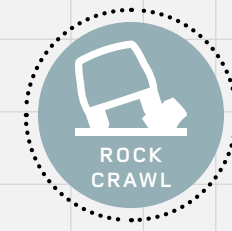
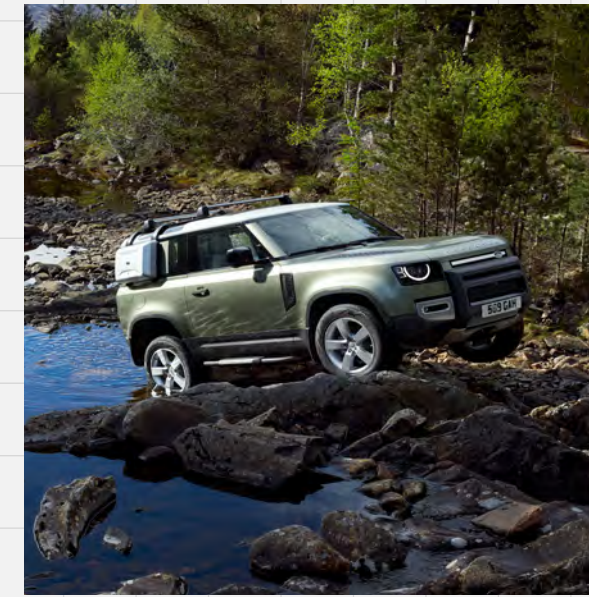
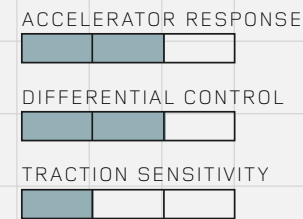
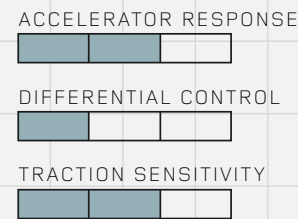
“We wanted to maintain the analogue, connected driving experience of the past and introduce modern handling and comfort. The old Defender was fun to drive, but flawed. New Defender is fun, but without the flaws. The result is a 4x4 that will put a smile on your face on any terrain and leave you feeling refreshed after a long drive, yet tow up to 3,720kg**, carry a dynamic roofload of up to 168kg and wade through water up to 900mm deep.”

MIKE CROSS
CHIEF ENGINEER, VEHICLE INTEGRITY
JAGUAR LAND ROVER

** US market only (3,500kg for UK, Europe and RoW)



TERRAIN RESPONSE



CONFIGURABLE TERRAIN RESPONSE

Land Rover has introduced a series of technologies to help deliver the capability customers expect from a Defender, including the latest generation of its patented Terrain Response system. Configurable Terrain Response technology allows drivers to use the touchscreen of the new Pivi Pro infotainment to fine-tune every aspect of the vehicle to suit its precise surroundings*.

In the original Defender, drivers could lock the central differential manually using the high-to-low range gear selector. In the New Defender, drivers can prevent cross-axle slip using the Centre Slip Limited and Centre and Rear Slip Limited options on the central touchscreen controller. In addition, there is a choice of three settings for the throttle and gearbox response, steering and traction control, allowing experienced off-roaders and all-terrain novices to tailor the vehicle set-up to suit their requirements. The system allows four individual profiles to be saved, so different drivers can quickly activate their preferred settings.

Alternatively, the intelligent Auto functionality of Terrain Response 2 can recognise the surface and configure the vehicle appropriately with no input from the driver.

* Measured in off-road height



CONFIGURABLE TERRAIN RESPONSE PIVI SCREEN

WADE PROGRAMME

The Defender is also the first Land Rover to feature a Wade programme within the Terrain Response 2 menu. The new setting automatically softens the throttle response, sets the heating and ventilation to recirculate cabin air, locks the driveline and adjusts the ride height to its off-road setting while activating the Wade Sensing screen on the infotainment system. This allows drivers to see the depth of surrounding water and provides ultimate confidence when fording deep water – allowing drivers to take full advantage of the Defender's world-class maximum wading depth of 900mm. When exiting Wade programme the Defender automatically drags the brakes, momentarily, to clean and dry the discs and ensure optimum braking performance is restored quickly after driving through deep water.

Land Rover's advanced All-Terrain Progress Control and ClearSight Ground View technologies also support drivers in extreme off-road situations, removing the stress of maintaining a low crawl speed and showing the hidden area directly in front of the vehicle using the central touchscreen.





TOWING & CARRYING

The Defender's strong body architecture helps customers make more of their world, whether they want to tow heavy loads or carry them, with a comprehensive range of roof racks and tow bar systems, and a maximum towing capacity of 3,720kg**. State-of-the-art technologies include Advanced Tow Assist, which takes the stress out of difficult reversing manoeuvres by letting drivers steer trailers with their fingertips using a rotary controller on the central console. New for Defender, the intelligent set-up works with 3D visualisation on the central touchscreen.

The ultra-strong body is ready for overland adventures, with a maximum roof load of 168kg making it perfectly suited to both camping trips and visits to the hardware store. The 300kg maximum static roof load allows adventurous souls to make use of the expedition-ready pop-up roof tent, turning Defender into an all-terrain home from home.

** US market only (3,500kg for UK, Europe and RoW)

VERSATILE LOADSPACE

The rear loadspace delivers customary Defender practicality with the 110 providing up to 1,075-litres when using the full height. Folding the row-two seats provides a generous maximum load volume of up to 2,380 litres and, with a maximum payload of up to 900kg (110 P400), the Defender lives up to the practical heritage of its iconic predecessors.****

**** All figures for five-seat configuration. When optional third row seats are fitted, 231 litres, 916 litres and 2,233 litres respectively

Loadspace volumes	110, five-seat	110, 5+2 seat
Max. load capacity, behind row three (to the roofline):	n/a	231 litres
Max. load capacity, behind row two (to the waistline):	646 litres	464 litres
Max. load capacity, behind row two (to the roofline):	1,075 litres	916 litres
Max. load capacity to the roofline (row two seats folded):	2,380 litres	2,233 litres

The second-row seatbacks are split 40:20:40 for maximum flexibility, while loadspace rails on the floor of the luggage space come with a range of load retention accessories to prevent smaller items from moving around inside. A lockable Security Box provides added protection on overland adventures – the heavy-duty steel box secures to the loadspace rails and is big enough to hold laptops, tablets and other valuables†. In addition, all Defenders feature a lockable 5.8-litre glovebox and deep door pockets. The exposed cross car beam also doubles as a shelf to provide 6.9 litres of open oddment stowage.

† 110 five-door only



THE PERFECT COMPANION

Defender has always been the perfect companion for outdoor adventures and the new model is no different. The clip-in loadspace cover is designed to double as a ground mat for picnics or when changing mucky footwear on wet surfaces. The hose-clean and machine washable material is another example of Defender's rugged and practical design.

The versatile loadspace is both big and clever. A switch panel inside the rear door allows customers to adjust the rear ride height of the Electronic Air Suspension and operate the deployable towbar, for simple trailer hitching, when fitted. Customers can also choose detachable and multi-height tow bar designs, allowing them to make full use of the Defender's 3,720kg** maximum towing weight.

Reinventing and updating the hose-clean interior of old Series and Defender models, New Defender also features a durable rubber floor with flush fitting sills, allowing customers to brush or wipe the interior clean after muddy or dusty adventures. Customers can specify carpet inserts for a more premium look and feel, but these are easily removed to reveal the durable flooring beneath when necessary.

** US market only (3,500kg for UK, Europe and RoW)



NEXT GENERATION BRAKING PERFORMANCE

New Defender is the first Land Rover to introduce next-generation braking technology which provides quicker and quieter responses than conventional systems, improving safety and enhancing the driving experience. An actuator-controlled piston operated by the foot pedal applies braking effort, delivering much finer control.

The system comes into its own during low-speed off-road manoeuvres and, when the Traction Control and Autonomous Emergency Braking systems are triggered, it can lock a wheel within only 150 milliseconds – versus 300 milliseconds with a conventional set-up.

In everyday use, the benefits include Hill Launch Assist with Enhanced Hill Hold, so the vehicle is prevented from rolling back on inclines – leaving the driver to focus solely on pulling away and negotiating objects ahead – with a smoother transition from the brakes to power in all environments.





TESTED TO EXTREMES

Defender is truly capable of great things and the front and rear recovery points can withstand up to 10 and 9 tonnes of pull respectively. During its global development programme, Land Rover engineers were able to complete iconic trails in Moab, USA, for the first time, including Hell's Revenge, the Poison Spider and the Steel Bender Trails. Closer to home, the Defender met Land Rover's toughest durability standards during testing at the global design and engineering headquarters at Gaydon. As part of these extreme events, the Defender withstood repeated 200mm kerb strikes at 40km/h (25mph)***.

DEFENDER 110 CAPABILITY IN NUMBERS*

LENGTH	4,758mm (5,018mm with spare wheel)
WIDTH	2,008mm (door mirrors folded)
HEIGHT	1,967mm
WHEELBASE	3,022mm (2,587mm for 90)
TURNING CIRCLE	12.84m
FRONT OVERHANG	845mm
REAR OVERHANG	891mm (1,151 including spare wheel)
APPROACH ANGLE	38°
DEPARTURE ANGLE	40°
BREAKOVER ANGLE	28° (31° for 90)
GROUND CLEARANCE	291mm
ARTICULATION	500mm
MAXIMUM WADING DEPTH	900mm
MAXIMUM ROOF LOAD	168kg / 300kg (dynamic / static)
MAXIMUM TOWING WEIGHT	3,720kg (NA only - 3,500kg, UK, Europe and ROW)
MAXIMUM PAYLOAD	900kg (110 P400)

* Measured in off-road height

*** Models fitted with 18- and 19-inch wheels and with off-road tyres

TECHNOLOGY





A 21ST CENTURY DEFENDER

EFFICIENCY AT ITS CORE:

48-volt Mild Hybrid Electric Vehicle (MHEV) engine will be joined by a Plug-in Hybrid Electric Vehicle (PHEV) powertrain to provide electric-only running* with sustainable performance and efficiency. Full line-up of petrol and diesel engines available from launch

NEW-GENERATION ELECTRICAL ARCHITECTURE:

Advanced Electrical Vehicle Architecture (EVA 2.0) underpins connected tech, making the Defender an all-terrain super-computer

A STEP AHEAD:

Software-Over-The-Air updates for up to 14 electronic control modules means the Defender will get better with age and even fix itself remotely

NEXT-GENERATION INFOTAINMENT:

Jaguar Land Rover's new Pivi Pro software debuts in Defender. Latest system is always on, making it faster and easier to use while allowing customers to connect two smartphones at once**

DIGITAL DEFENDER:

Intuitive 10-inch touchscreen with Apple CarPlay and Android Auto compatibility delivers enhanced user experience and broader range of functions**

NEW ACTIVITY KEY:

Waterproof and wearable Activity Key watch works independently of the state-of-the-art fob, allowing customers to lock and unlock the Defender from their wrist

COMMAND DRIVING POSITION:

ClearSight Ground View and ClearSight Rear View help you see more with 3D on-screen visualisation when using the Advanced Tow Assist and Wade Sensing systems

HEAD-UP OFF-ROAD:

Full colour Head-up Display provides on and off-road information with new video capability putting important information directly in front of the driver

REMOTE PACK:

Using an app on their smartphone, owners can remotely keep track of the fuel level, location and journey history of their vehicle, as well as the ability to heat or cool the Defender

* Market dependent
 ** All in-car features should be used by the driver only when safe for them to do so. Drivers must ensure they are in full control of their vehicle at all times.

PIONEERING INNOVATION

Over seven decades of pioneering innovation, Land Rover has been at the forefront of all-terrain capability and adventure. The New Defender is fit for the 21st century, using the latest technologies to provide new levels of connectivity, capability and convenience.

Land Rover's next-generation Electronic Vehicle Architecture, dubbed EVA 2.0, underpins the digital revolution, supporting Software-Over-The-Air (SOTA) updates that ensure Defender will get better with age and enabling Land Rover's fast and intuitive new Pivi Pro infotainment system.

Under the bonnet, a Mild Hybrid Electric Vehicle (MHEV) powertrain will be available from launch while a powerful and efficient Plug-in Hybrid Electric Vehicle (PHEV) capable of silent zero-emissions driving in EV-mode will join the range next year, ensuring Defender is equipped for today and engineered for tomorrow.^a

Just as the Defender's breadth of dynamic capability is underpinned by a new body architecture, its connected technologies are enabled by a new state-of-the-art scalable EVA 2.0, which supports the next-generation of driver assistance and customer convenience systems. In total, 85 individual ECUs work in harmony to turn the Defender into an all-terrain super-computer capable of handling 21,000 network messages at any one time – up from 13,000.

^a Range achieved will vary dependent on vehicle and battery condition, actual route and environment and driving style.



“The New Defender is a future-proofed 4x4 for the 21st century, using the latest technologies to optimise efficiency, enhance capability and revolutionise connectivity. With plug-in hybrid electric powertrains, software updates that are sent over the air and next-generation always-on touchscreen infotainment, Defender is every bit as pioneering today as the original Land Rover was in 1948.”

ALEX HESLOP
DIRECTOR OF ELECTRICAL ENGINEERING
JAGUAR LAND ROVER





SOFTWARE OVER THE AIR

The future-proof 5G-ready network takes SOTA technology to the next level, ensuring the Defender is always operating on the latest software available. Up to 14 onboard electronic control modules, more than any previous Jaguar Land Rover vehicle, can receive updates, without the need to visit a Land Rover retailer. In this way, the Defender will get better with age and even the most adventurous customers can use the technology – all that's required is a data connection. In isolated locations a satellite-phone could download data for installation.

Within the lifetime of the Defender, the embedded diagnostics system will be able to alert customers to issues and either prevent or resolve them automatically as a data connection replaces a traditional toolkit.

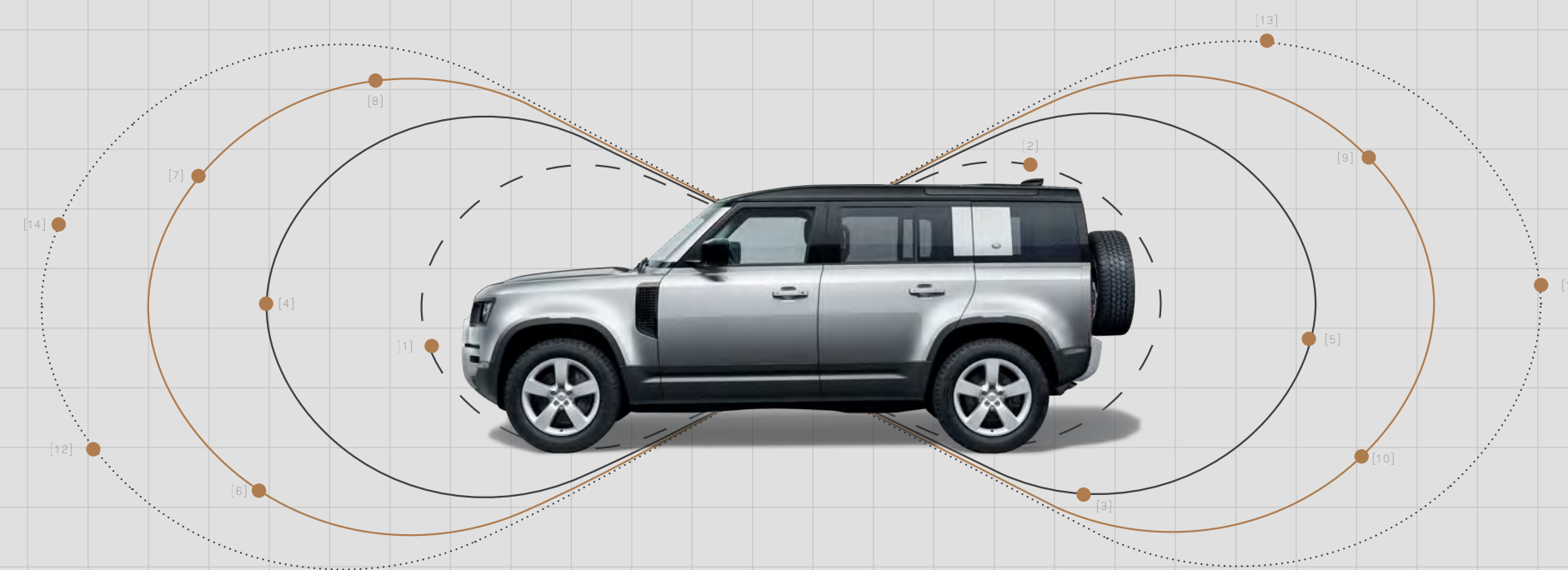
Software updates are sent to the vehicle and downloaded in the background using the vehicle's built-in data plan. Once ready, a notification will alert customers to the availability of an update, allowing the installation to be scheduled for a convenient time.

Customers will be able to stay truly connected with the Online Pack* which will provide unlimited data for music streaming, weather updates and calendar information on the move. By purchasing the onboard Wi-Fi package, all passengers will be able to stay connected with a separate external antenna providing the best possible service.

Inspired by the latest mobile devices, Defender employs state-of-the-art consumer technology including high performance Snapdragon processors and advanced QNX operating systems to deliver its connected features.

* Market dependent

SOTA



EVERLASTING
Digital revolution ensures Defender gets better with age



EFFICIENCY
Moves away from the need for dealer visits for software upgrades



QUICK UPDATES
Takes up to 30 mins – just lock your Defender and it will be ready in the morning



DIAGNOSTICS TO DEALER
Embedded diagnostics inform dealer of issues, meaning parts can be ordered ahead of time



MODULES
14 modules can be updated over the air, including braking, chassis and engine



SCHEDULED UPDATES
up to 4 days ahead



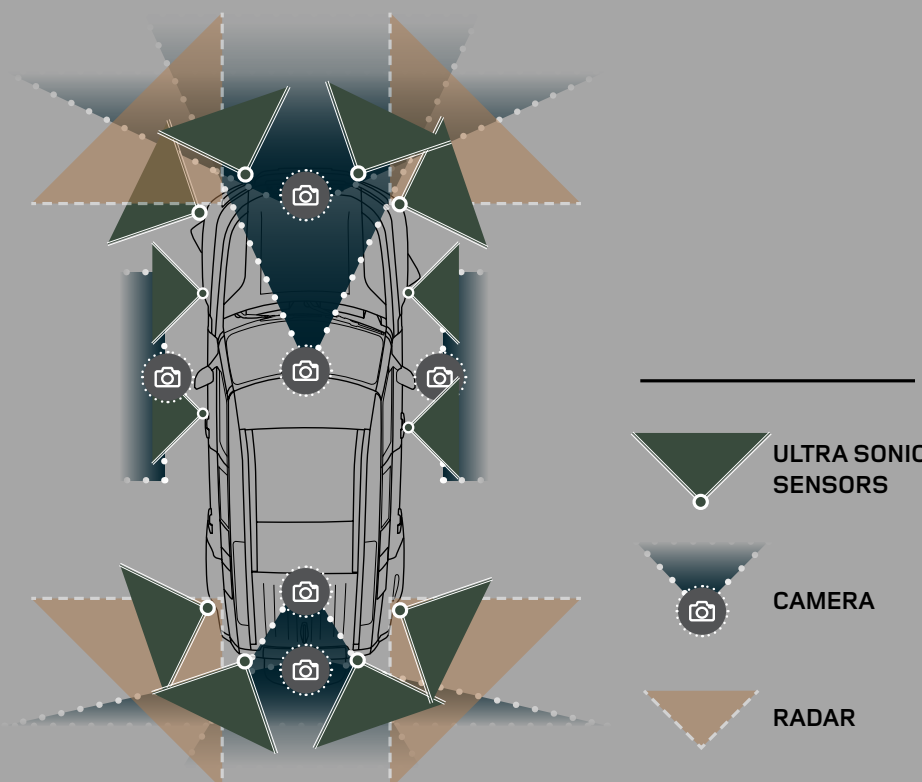
DATA
Uses open mobile allowance framework – no cost to customer for data usage



CONNECTIVITY
Always connected to the 4G network for instant access

ADAS

Defender can see for itself, with a range of the latest camera technologies



EVA 2.0

Future-proofed Electrical Vehicle Architecture means Defender is connected to the 21st century

1 super computer co-ordinating

85 individual ECUs controlling



21,000

messages processed at any one time
all protected by the latest domain controller

PIVI

Land Rover's new and intuitive infotainment system is user-friendly and guarantees instant response

SNAPDRAGON
super-fast processor

QNX
operating system

1920x720
high-resolution screen

10-INCH
touchscreen





PIVI PRO INFOTAINMENT

Customer technology has also driven the development of Jaguar Land Rover's fastest and most intuitive infotainment system, which makes its debut in the New Defender. The next-generation Pivi Pro software is inspired by the latest smartphones and accessed through the central 10-inch touchscreen with an always-on design that provides instant responses, even when starting the vehicle for the first time.

Supported by a built-in back-up battery, navigation initialisation will take just seconds while an easy-to-follow menu structure ensures customers can carry out the most common tasks directly from the home screen, reducing driver distraction. The easily customised and redesigned layouts reduce the number of steps by an average of 50 per cent versus previous systems and incorporates wireless device charging and Apple CarPlay and Android Auto for intuitive smartphone integration. Its Bluetooth technology can even connect to two smartphones simultaneously.

The new navigation system uses self-learning algorithms and dynamic guidance to optimise routing, while Smart Voice Guidance even knows to cancel audio instructions when drivers are travelling in familiar surroundings. Maps will always be up-to-date thanks to SOTA technology. In combination with the 12.3-inch Interactive Driver Display, the advanced system provides high-definition 3D mapping within the instrumentation, leaving the central touchscreen free to control other applications.

The high-resolution digital instruments can be configured to show a pair of conventional dials, full-screen 3D navigation guidance or a combination of the two, allowing drivers to optimise the display to suit the circumstances and their individual preference.

DRIVER TECHNOLOGY

Customers can even keep tabs on the Defender from afar, using Land Rover's Remote tracking technology, which allows owners to monitor its location, fuel level, lock and unlock the vehicle and even initiate the climate control to heat or cool the cabin before setting off.

Driver distractions are kept to the absolute minimum with Land Rover's Generation 2 Head-up Display (HUD). The full-colour backlit TFT set-up provides key information to the driver, while its new video capability can replicate displays from the central touchscreen – including articulation graphics to assist the driver in off-road environments.

Land Rover's new Electrical Vehicle Architecture, state-of-the-art forward-facing digital camera, advanced ultrasonic sensors and powerful 3Gbit/s onboard network support a comprehensive suite of driver assistance technologies, with the cameras and sensors governed by a single integrated processor, or domain controller, for optimised security.

These include a 3D Surround Camera that goes above and beyond, providing both 360-degree plan and new 3D exterior perspective views of the surrounding area, both off and on-road.

The advanced system provides enhanced augmented on-screen visualisation when using Tow Sensing, Wade Sensing and Land Rover's ClearSight Ground View transparent bonnet technology, to improve visibility of the vehicle's surroundings.



WADE SENSING



ON-ROAD



TOW SENSING



CLEAR SIGHT GROUND VIEW

DRIVER TECHNOLOGY

To maintain rearward visibility, all new Defenders that are fitted with the front jump seat also feature ClearSight Rear View technology. At the touch of a button, the frameless interior mirror switches from a conventional mirror to a digital screen showing a feed provided by a high-definition, rear-facing camera mounted high at the back of the vehicle.

The clever technology effectively makes the rear pillars and spare wheel invisible, while also providing a 50-degree wider field of vision to eliminate rear blindspots. The 1.7-megapixel camera also provides superior clarity in low light conditions and has a hydrophobic coating to maintain performance in wet and muddy conditions.

A Driver Assist Pack includes Adaptive Cruise Control and Rear Pre-Collision Monitor, which alerts following drivers who are failing to slow down by automatically flashing the hazard lights, as well as Blind Spot Assist, Rear Traffic Monitor and Clear Exit Monitor.

The comprehensive list of driver assistance technologies includes Emergency Braking, Lane Keep Assist, Traffic Sign Recognition, Cruise Control and Speed Limiter functions, a Driver Condition Monitor and front and rear Parking Aids, while the advanced chassis control features are supported by an ultra-fast Flexray network. Customers can also choose from six speaker, and 10 and 14-speaker (both plus subwoofer) Meridian™ sound systems delivering 180W, 400W or 700W of amplifier power, providing rich sound quality for all occupants.



STAY CONNECTED

A comprehensive supply of charging sockets throughout the cabin will keep occupants charged and connected at all times, whether using digital devices to stream music or camping accessories to provide home comforts in remote locations. Front-row occupants can choose from a pair of 12V power supplies and two USB sockets, one of which is located behind the central touchscreen – perfectly located to minimise trailing wires when used to power a dashcam.

In the second row, occupants have two USBs and a pair of 12V charging points and, when third-row seats are fitted, they come with a USB outlet and 12-volt socket. The loadspace also includes an additional 12-volt socket while a three-pin 230V domestic socket is also available.

Thoughtful touches include the availability of USB sockets on the front seatbacks, specifically positioned to allow second-row occupants to charge devices while using the optional Click and Go tablet holders.





SECURE AND CONVENIENT KEY TECHNOLOGY

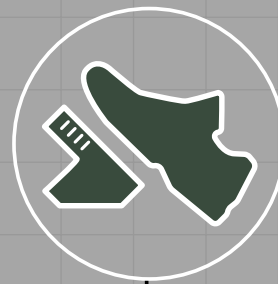
State-of-the-art keyless technology brings added cyber security and convenience with advanced Ultra Wide Band (UWB) transceivers preventing thefts from copycat devices. Jaguar Land Rover was the first vehicle manufacturer to introduce the pioneering keyless entry system and Defender uses the innovative set-up to resist relay attack and meet the world's toughest security standards.

The second-generation Activity Key can be specified in addition to the pair of standard fobs for heightened convenience. The water resistant (4 ATM) and shock-proof wearable device now incorporates an LCD watch. The wrist-worn device allows customers to unlock any door, lock or start the vehicle – doing away with the electronic 'handshake' previously required to lock or unlock the vehicle. Instead, customers can access or secure the Defender either using a button on the watch screen or its keyless entry functionality***.

*** Available mid-2020

MILD HYBRID ELECTRIC VEHICLE

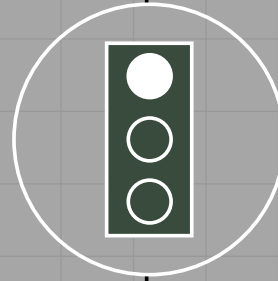
HOW IT WORKS



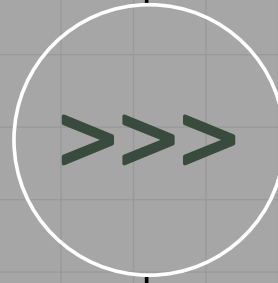
Driver lifts off the accelerator – the BiSG harvests energy on coast down by running a negative torque to the engine



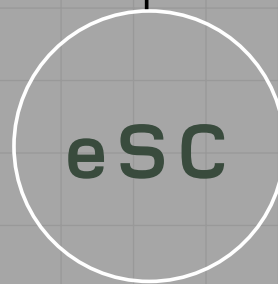
Driver presses brake pedal – as the vehicle speed drops below 3km/h, the engine stops on the move, however the driver maintains all key functions



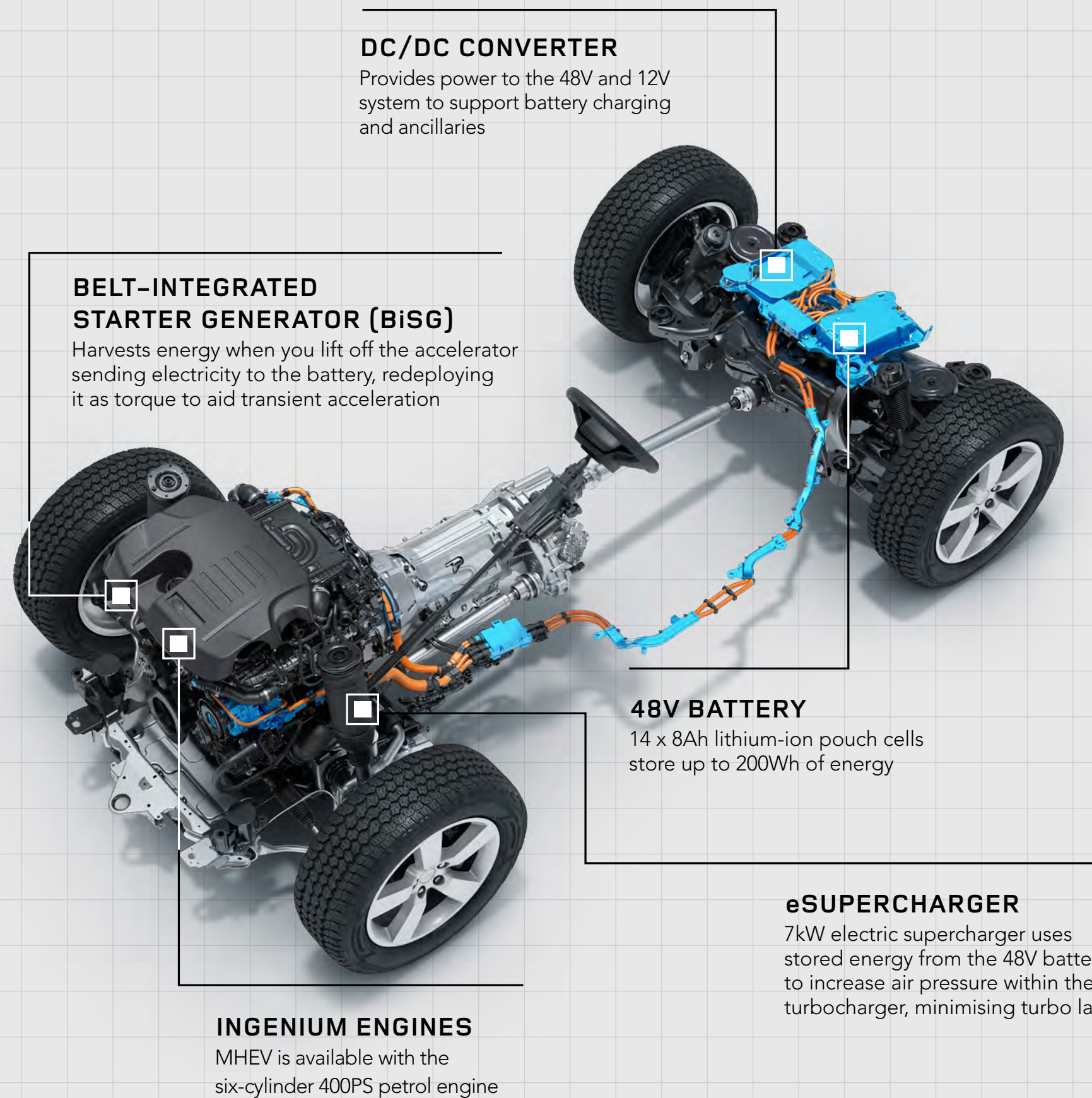
Vehicle stopped – engine remains shut off until the driver lifts their foot off the brake pedal



Driver presses accelerator – up to 142.5Nm of torque is applied by the BiSG to restart the engine and assist reducing engine load and fuel consumption



The eSupercharger helps to boost air pressure within the engine, minimising turbo lag under acceleration up to 2,000rpm



DC/DC CONVERTER

Provides power to the 48V and 12V system to support battery charging and ancillaries

BELT-INTEGRATED STARTER GENERATOR (BiSG)

Harvests energy when you lift off the accelerator sending electricity to the battery, redeploing it as torque to aid transient acceleration

48V BATTERY

14 x 8Ah lithium-ion pouch cells store up to 200Wh of energy

eSUPERCHARGER

7kW electric supercharger uses stored energy from the 48V battery to increase air pressure within the turbocharger, minimising turbo lag

INGENIUM ENGINES

MHEV is available with the six-cylinder 400PS petrol engine

MHEV DRIVER BENEFITS

6g/km

of CO₂ saving

Engine shut off at speeds below
3km/h

Up to
142.5Nm
of electric torque

POWERTRAINS

New Defender will be available with a wide range of powertrains including Plug-In Hybrid Electric Vehicle (PHEV) and Mild Hybrid Electric Vehicle (MHEV) technologies and a range of advanced and efficient Ingenium petrol and diesel engines, all fitted with intelligent Stop/Start technology to minimise emissions.* The advanced P400e PHEV powertrain will join the range next year and with it comes the promise of silent zero-emissions driving in EV mode.

At launch, diesel power comes from a choice of four-cylinder D200 or D240 engines, with sequential twin turbo technology providing 430Nm of torque to optimise performance and economy. The D200 delivers fuel economy of 37.2mpg (7.6 l/100km) and 0-100km/h in 10.3 seconds (0-60mph in 9.9 seconds) while the more powerful D240 matches the 200PS for efficiency while accelerating from 0-100km/h in 9.1 seconds (0-60mph in 8.7 seconds). Both provide competitive CO₂ emissions of 199g/km (NEDC equivalent).^o

Petrol customers will be able to choose between a turbocharged four-cylinder P300 engine and an efficient six-cylinder P400 MHEV powertrain. The 300PS unit uses an advanced twin-scroll turbo for smooth performance and efficiency, accelerating from 0-100km/h in 8.1 seconds (0-60mph in 7.7 seconds) with CO₂ emissions as low as 227g/km (NEDC equivalent).^o

The state-of-the-art MHEV powertrain harvests energy normally lost during deceleration and redeploys it to optimise efficiency. The in-line six-cylinder Ingenium petrol features both a conventional twin-scroll turbocharger and an advanced 48-volt electric supercharger, with a belt-integrated starter motor in place of the alternator to assist the petrol engine, and a 48-volt lithium-ion battery to store energy captured as the vehicle slows down. In combination, these advanced technologies provide 400PS and 550Nm of torque, 0-100km/h in 6.1 seconds (0-60mph in 5.8 seconds) and fuel consumption as low as 29.4mpg (9.6l/100km) with CO₂ emissions of 220g/km (NEDC equivalent).^o

All engines drive through a smooth and responsive eight-speed ZF automatic gearbox and twin-speed transmission, to provide a set of low-range ratios essential for towing or off-road driving when more control is required.

* Market dependent
^o The figures provided are as a result of official manufacturer's tests in accordance with EU legislation. For comparison purposes only. Real world figures may differ. CO₂, fuel consumption and range figures may vary according to factors such as driving styles, environmental conditions, load and accessories. All figures relate to Defender 110 model only

ACCESSORIES





ACCESSORISED AND PERSONALISED

READY FOR ANYTHING:

Defender has 170 individual accessories – the biggest range ever produced for a Land Rover – including an innovative Exterior Side-mounted Gear Carrier

PERSONAL TO YOU:

Four distinct Accessory Packs are available:

EXPLORER PACK:

Blaze your own trail, whatever the terrain. Explorer Pack equips Defender to defy conventions and conquer the most uncharted landscapes.

ADVENTURE PACK:

Take your passions to new territories. Adventure Pack equips Defender to take you off the beaten track and into nature's playground.

COUNTRY PACK:

Bring the muddiest of boots. Country Pack equips Defender to embrace the elements and make every journey truly memorable.

URBAN PACK:

Conquer the concrete jungle. Urban Pack equips Defender to stand out in the suburbs with head-turning style, confidence and composure.

ABOVE AND BEYOND COLLECTION:

A capsule of technical apparel developed in partnership with Musto® is available in Land Rover showrooms and online, reflecting core Defender qualities of capability and toughness. For more information visit:

WWW.LANDROVER.COM



EXPLORER PACK*

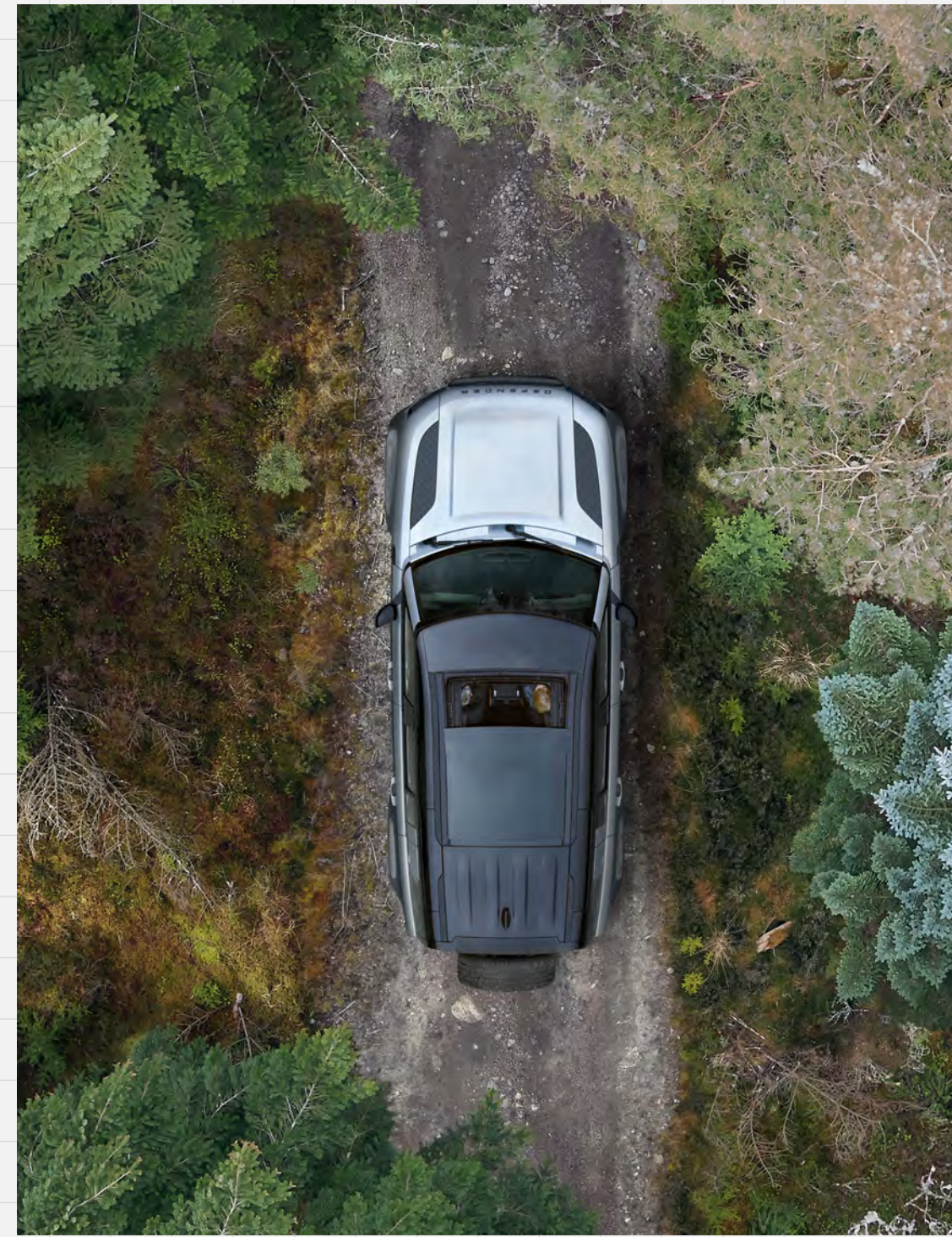
Conquer unmapped extremes with a Raised Air Intake, lightweight 36kg Expedition Roof Rack** and an Exterior Side-mounted Gear Carrier. Front and Rear Classic Mud Flaps, Wheel Arch Protection and a Spare Wheel Cover provide extra ruggedness while a Matte Black bonnet decal, featuring 90 or 110 cut-out detailing, completes the Explorer Pack's head-turning appearance.

Customers can also upgrade the Explorer Pack with Fixed Side Steps and a Deployable Roof Ladder, while the Front Expedition Protection System adds a Front Undershield and 'A'-Frame Protection Bar with raised corners to improve the front approach angle.



ADVENTURE PACK*

A Portable Rinse System with a 6.5-litre pressurised water reservoir, boot-mounted Integrated Air Compressor and Exterior Side-mounted Gear Carrier equip New Defender for time spent in the wilds. Protection is enhanced by Front and Rear Mud Flaps, a Spare Wheel Cover and a Bright Rear Scuff Plate, to guard the rear bumper against scrapes and scratches when loading and unloading, while a practical 20-litre Seat Backpack, which you can take with you when you leave the vehicle, completes the interior.



COUNTRY PACK *

Designed for time spent off the beaten track, the Country Pack features rugged Wheel Arch Protection, a Bright Rear Scuff Plate to protect the top of the rear bumper and Front and Rear Classic Mud Flaps. A Portable Rinse System and Full-Height Loadspace Partition equip the interior for everyday adventures.



URBAN PACK *

To stand out in the concrete jungle, the Urban Pack adds a Bright Rear Scuff Plate, Spare Wheel Cover and Front Undershield***, while Bright Metal Pedals add to the robust interior. Customers can then opt for a range of alloy wheel upgrades, including a distinctive 22-inch five-spoke design.

A selection of Side Tubes and both Fixed or Deployable Side Steps are available across all four Accessory Packs alongside a full range of durable, deep-sided rubber mats to protect the interior.

*Upgrades available mid-2020
 ** 168kg roofload and expedition rack only available with off-road tyre.
 *** Available mid-2020



TAILORED TO YOUR TASTE

The comprehensive range of accessories can also be purchased separately including the innovative Exterior Side-mounted Gear Carrier, which aligns with the Defender's distinctive floating pillars** and is perfect for holding mucky equipment. The lockable stowage pod has been aerodynamically tested to minimise wind noise and withstand extreme conditions and its 24-litre capacity can support up to 17kg, making it perfect for storing muddy boots or soggy wetsuits, without soiling the interior.

Personal experiences and adventures are part of the Land Rover landscape and Defender maintains this rich heritage, allowing customers to personalise their vehicle to fit their lives with more choice than ever before.

The most accessorised and personalised Land Rover ever produced will be available in 90 and 110 body designs and Defender, S, SE, HSE and Defender X trim levels, while customers can choose from a range of four Accessory Packs to give the rugged new 4x4 a unique character.

A choice of 170 individual accessories means the chances of finding two identical Defenders is remote while Land Rover's new Above and Beyond Collection of outdoor performance apparel and equipment delivers the same durability and toughness as the Defender.

** Floating pillars fitted as standard to 110 body designs, optional on 90



EXPEDITION-READY

If the Exterior Side-mounted Gear Carrier isn't fitted, the Defender's floating pillars also provide a home for the Deployable Roof Ladder, which folds down from its locked position to allow easy access to items being carried on the roof. With a choice of Aqua Sports Carriers, Roof Rails and Roof Racks, customers will be able to make full use of Defender's impressive 168kg*** maximum dynamic roof load.

For overnight camping trips and overland adventures, a Rooftop Tent makes full use of the Defender's maximum static roof load of 300kg. Its one-click operating mechanism is easy-to-use and, when fitted with the Deployable Roof Ladder and Expedition Roof Rack, the Defender doubles as all-terrain accommodation for remote camping trips.

*** Must include weight of roof rack/ rails rated at 36kg (110) / 30Kg (90).

ADDITIONAL ACCESSORIES

The Portable Rinse System includes a 6.5-litre reservoir, hose and shower attachment and can be used to clean everything from dirty kit to filthy dogs and is also available as part of Land Rover's existing Pet Packs. The user-friendly and practical list of standalone accessories also includes an Inflatable Waterproof Awning and a range of towing systems.

To ensure the toughest and most capable member of the Land Rover family inspires complete confidence in the most inhospitable environments on earth, a Remote Control Electric Winch provides complete assurance even when miles from home****. Packaged neatly within the front bumper, its integrated design generates a maximum force of 4,536kg, holds 40m of synthetic rope and can be wirelessly operated up to 45m away for the ultimate convenience and safety off-road.

Raised Air Intakes are a vital addition in dusty locations, protecting the engine by delivering cleaner air from their elevated position, and the Defender is available with a close-fitting semi-integrated design that fits neatly onto the side-mounted engine air intake in the front fender, to preserve performance in dusty environments.

An intuitive online configurator lets customers personalise the Defender quickly and easily – to see how your perfect specification looks, go to:
WWW.LANDROVER.COM/DEFENDER

**** Remote Control Electric Winch and Winch Mounting Kit available mid-2020



ABOVE AND BEYOND COLLECTION

The potential to accessorise Defender extends beyond the vehicle itself, as customers can also shop from the new Above and Beyond Collection – a 24-piece capsule collection designed and developed in collaboration with Musto®. The range of outdoor performance apparel, technical equipment and accessories delivers the same toughness as the famous off-roader and features everything from a hybrid jacket, which effortlessly transforms into a gilet using Quickburst zip technology, to a belt with a tensile strength of 6,000kg.

A selection of lifestyle packs is also available mirroring those available for the Defender, grouping specially chosen kit that suit country life, city living, outdoor adventure and exploration respectively.



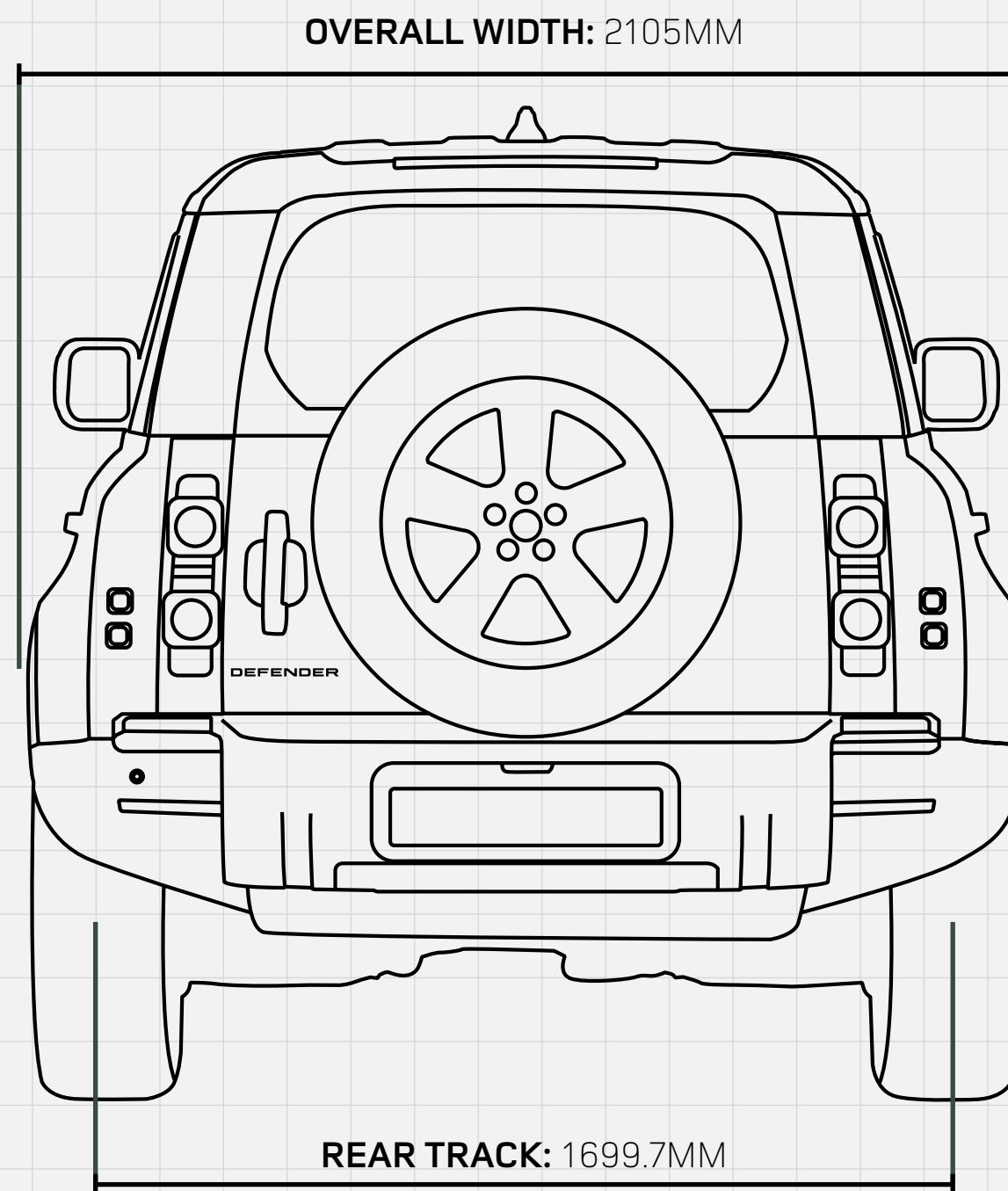
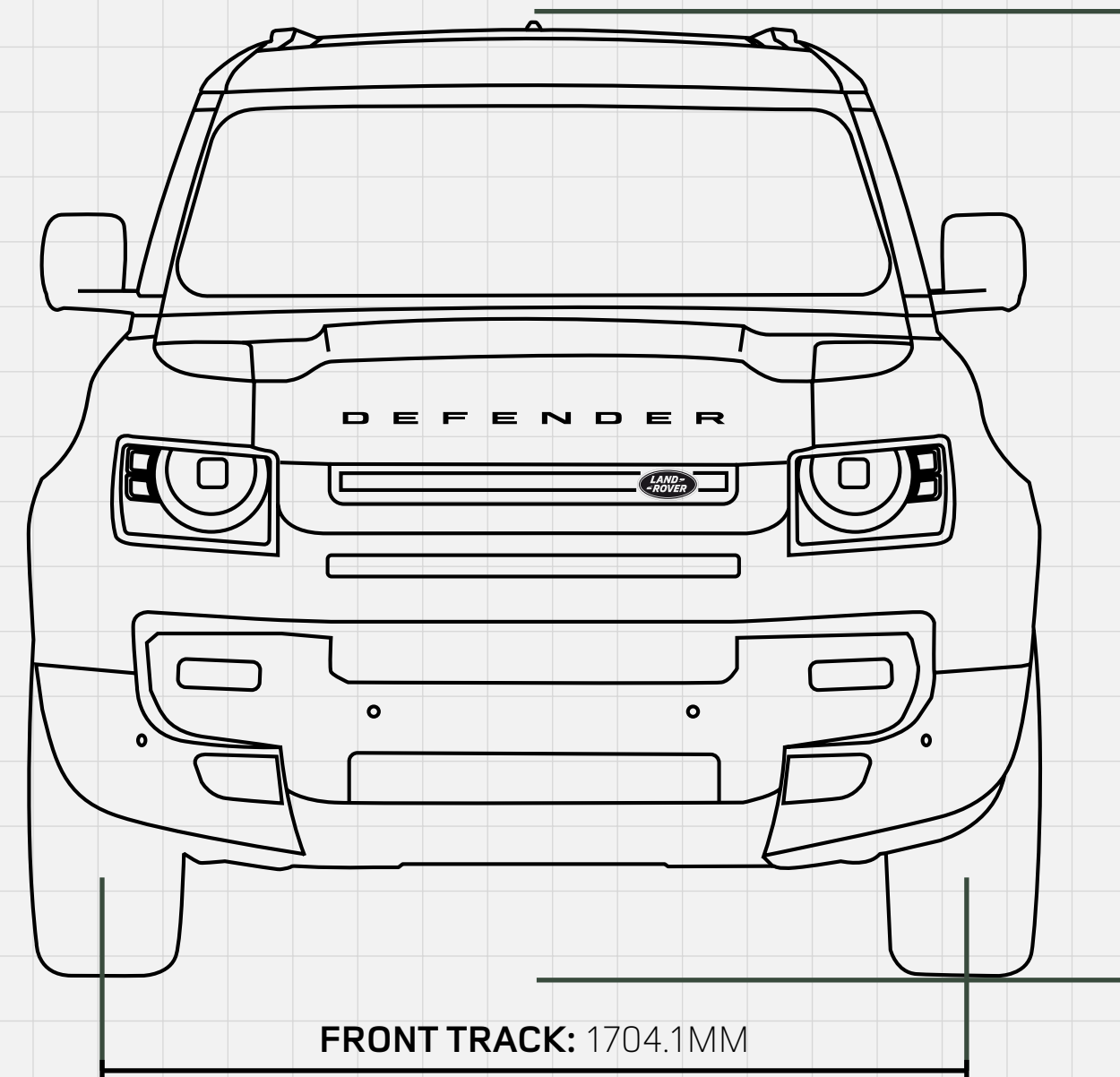
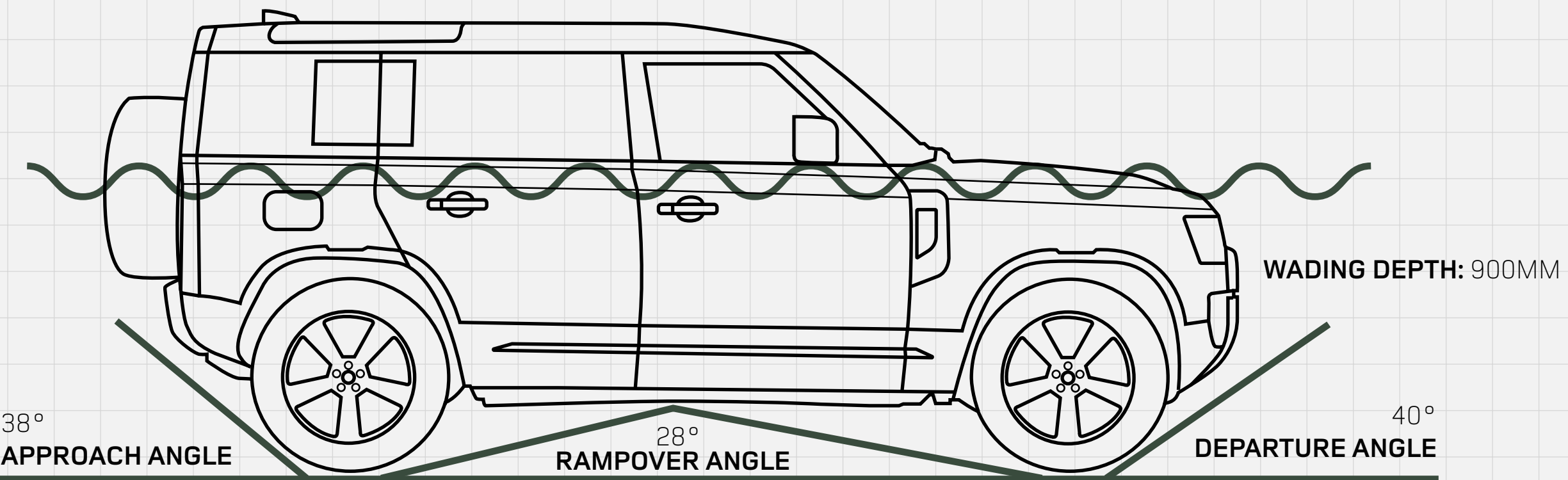
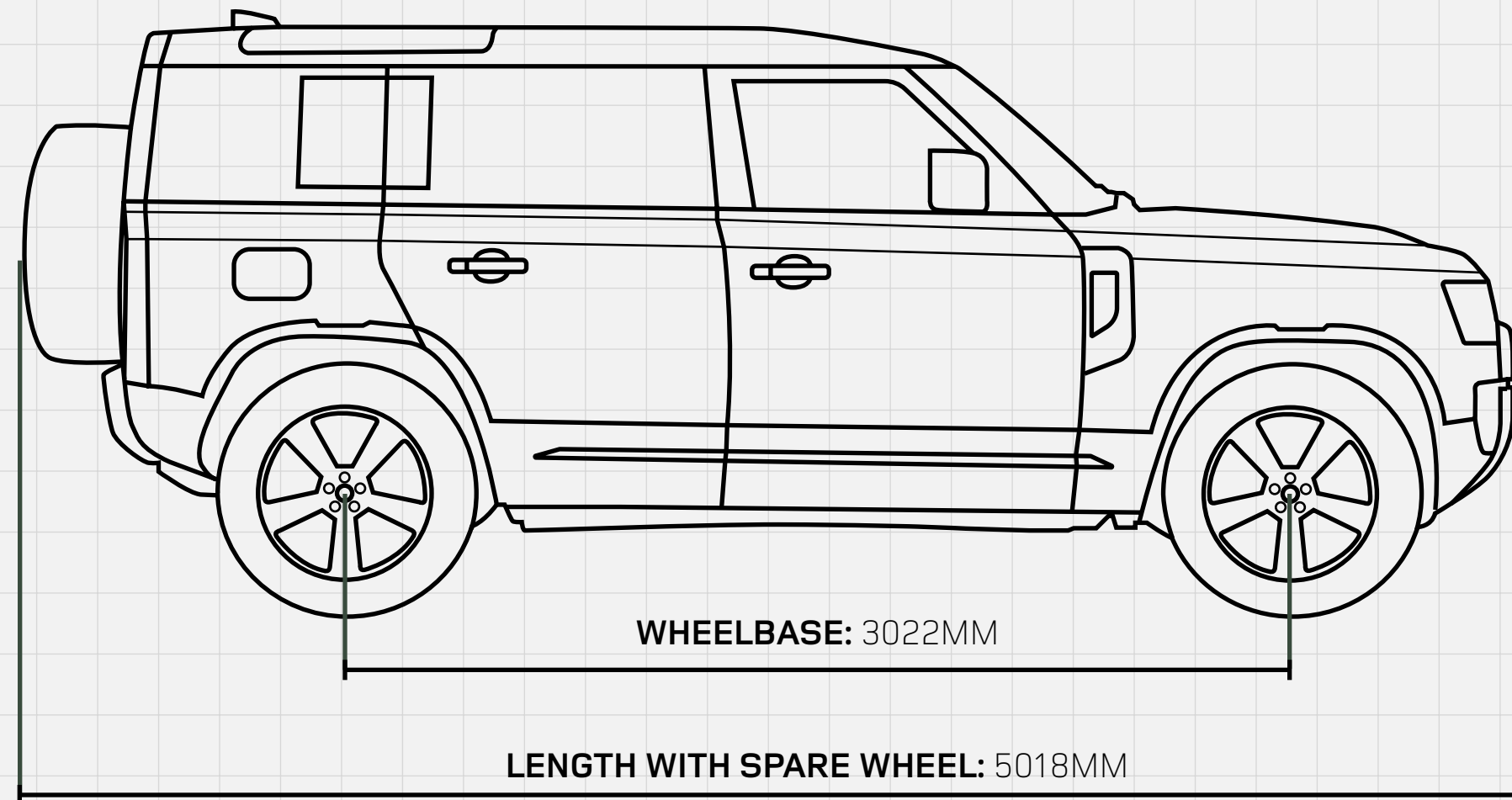
TECHNICAL SPECIFICATION



2020 MODEL YEAR LAND ROVER DEFENDER 110 TECHNICAL SPECIFICATIONS

	2.0 SD4 (D4H) 200PS AWD Automatic	2.0 SD4 (D4H) 240PS AWD Automatic	2.0 Si4 (P4) 300PS AWD Automatic	3.0 I6 (P6) 400PS AWD Automatic MHEV
Engine type	Inline 4 Cylinder, 16 Valves, Common Rail Direct Injection		Inline 4 Cylinder, 16 Valves, Electronic control, direct injection	Inline 6 Cylinder, 24 Valves, Electronic control, direct injection
Displacement	1998.68		1997.34	2996.04
Max power	200PS (147kW) @ 4000rpm	240PS (177kW) @ 4000rpm	300PS (221kW) @ 5500rpm	400PS (294kW) @ 5500rpm
Max torque	430Nm (317lb ft) @1400rpm		400Nm (295lb ft) @ 1500-4000 rpm	550Nm (406lb ft) @ 2000-5000 rpm
Euro standard	EU6d			
Fuel tank capacity (litres) (usable)	85		90	
AdBlue tank capacity (litres)	20.7	20.7	-	-
Steering	Electronic Power Assisted Steering (EPAS) rack and pinion			
Front suspension	SLA suspension with twin lower links			
Rear suspension	Integral link suspension			
EXTERIOR DIMENSIONS				
Drag coefficient (Cd)	From 0.39		From 0.38	From 0.4
INTERIOR DIMENSIONS				
Headroom (mm)	Row 1: 1032; Row 2: 1025; Row 3: 1033			
Legroom (mm)	5 seats / 6 seats - Row 1: 993; Row 2: 992 7 seats - Row 1: 993; Row 2: 975; Row 3: 520			
Luggage capacity (litres)	5 seats / 6 seats - Row 1: 2380; Row 2: 1075 7 seats - Row 1: 2233; Row 2: 916; Row 3: 231			
WEIGHT				
Unladen (EU) (kg)	5 Seat: 2323 6 Seat: 2346 7 Seat: 2380		5 Seat: 2261 6 Seat: 2284 7 Seat: 2318	5 Seat: 2361 6 Seat: 2384 7 Seat: 2418
Unladen (DIN) (kg)	5 Seat: 2248 6 Seat: 2271 7 Seat: 2305		5 Seat: 2186 6 Seat: 2209 7 Seat: 2243	5 Seat: 2286 6 Seat: 2309 7 Seat: 2343
PERFORMANCE				
0-60mph (0-96km/h) (secs)	9.9	8.7	7.7	5.8
0-62mph (0-100km/h) (secs)	10.3	9.1	8.1	6.1
Top speed (km/h / mph)	175 / 109	188 / 117	191 / 119	Performance pack: 208 / 129 Standard: 191 / 119
Fuel consumption l/100km (mpg) NEDC Equivalent (Tyre Class A)	7.6 (37.2)	7.6 (37.2)	9.9 (28.5)	9.6 (29.4)
CO ₂ emissions (g/km) NEDC Equivalent (Tyre Class A)	199	199	5 seat: 227 6 seat: 227 7 seat: 228	220
Fuel consumption l/100km (mpg) WLTP (TEL Combined)	5 seat: 8.9 (31.7) 6 seat: 8.9 (31.6) 7 seat: 9.0 (31.4)	5 seat: 8.9 (31.7) 6 seat: 8.9 (31.6) 7 seat: 9.0 (31.4)	5 seat: 11.5 (24.7) 6 seat: 11.5 (24.6) 7 seat: 11.6 (24.4)	5 seat: 11.2 (25.2) 6 seat: 11.3 (25.1) 7 seat: 11.3 (24.9)
Fuel consumption l/100km (mpg) WLTP (TEH Combined)	5 seat: 9.6 (29.5) 6 seat: 9.6 (29.5) 7 seat: 9.6 (29.3)	5 seat: 9.5 (29.6) 6 seat: 9.6 (29.5) 7 seat: 9.6 (29.3)	5 seat: 12.4 (22.8) 6 seat: 12.4 (22.8) 7 seat: 12.5 (22.6)	5 seat: 12.1 (23.3) 6 seat: 12.1 (23.3) 7 seat: 12.2 (23.2)
CO ₂ emissions (g/km) WLTP (TEL Combined)	5 seat: 234 6 seat: 235 7 seat: 236	5 seat: 234 6 seat: 235 7 seat: 236	5 seat: 260 6 seat: 261 7 seat: 262	5 seat: 255 6 seat: 256 7 seat: 257
CO ₂ emissions (g/km) WLTP (TEH Combined)	5 seat: 251 6 seat: 251 7 seat: 253	5 seat: 251 6 seat: 251 7 seat: 253	5 seat: 280 6 seat: 281 7 seat: 283	5 seat: 275 6 seat: 275 7 seat: 277

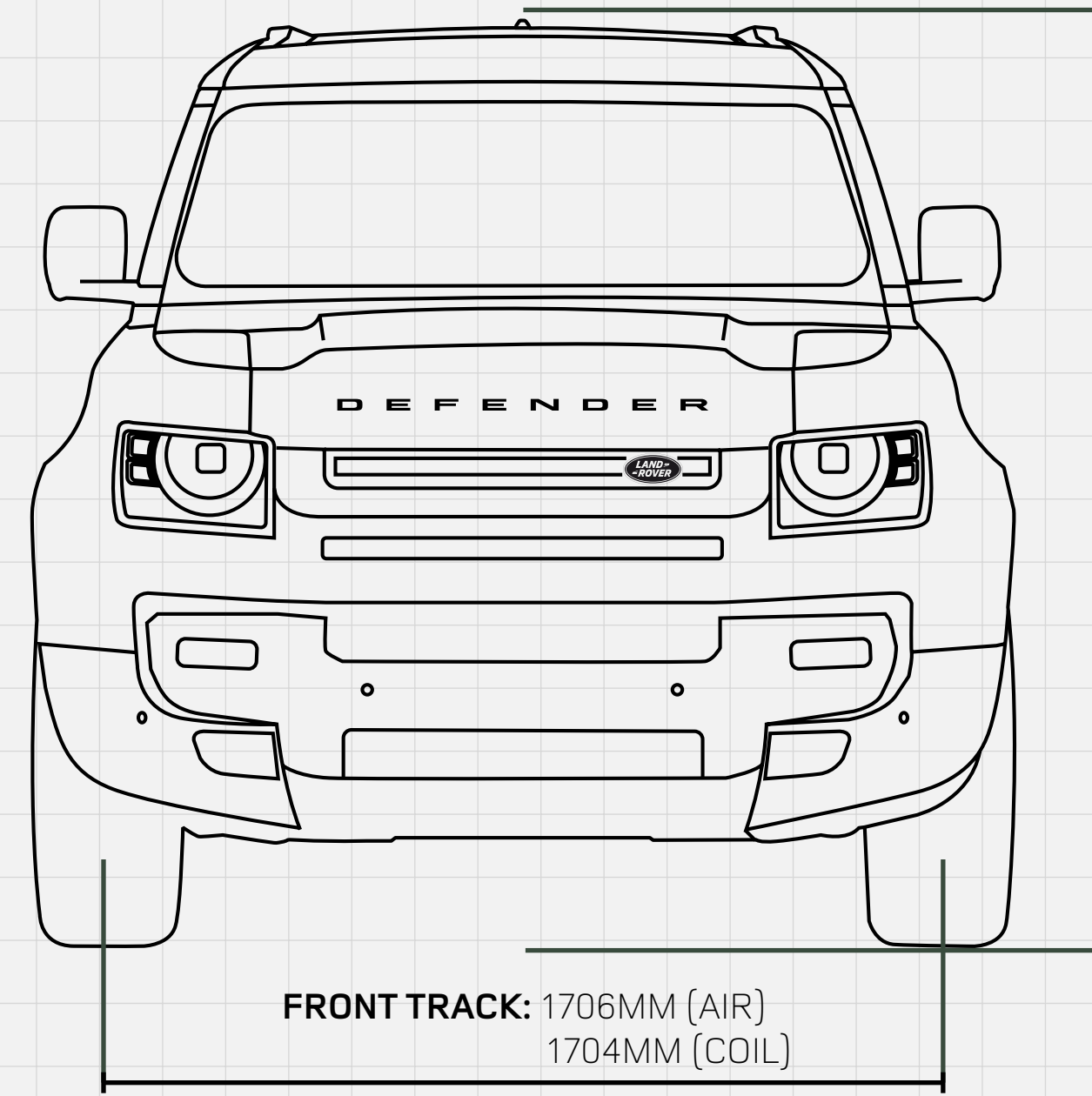
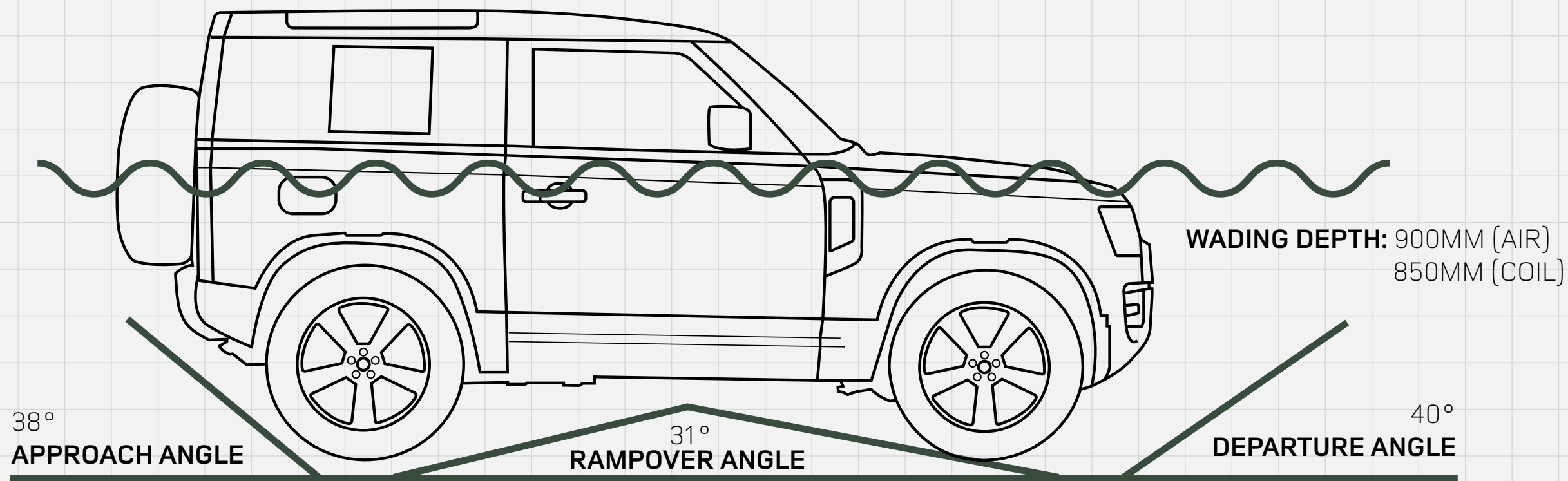
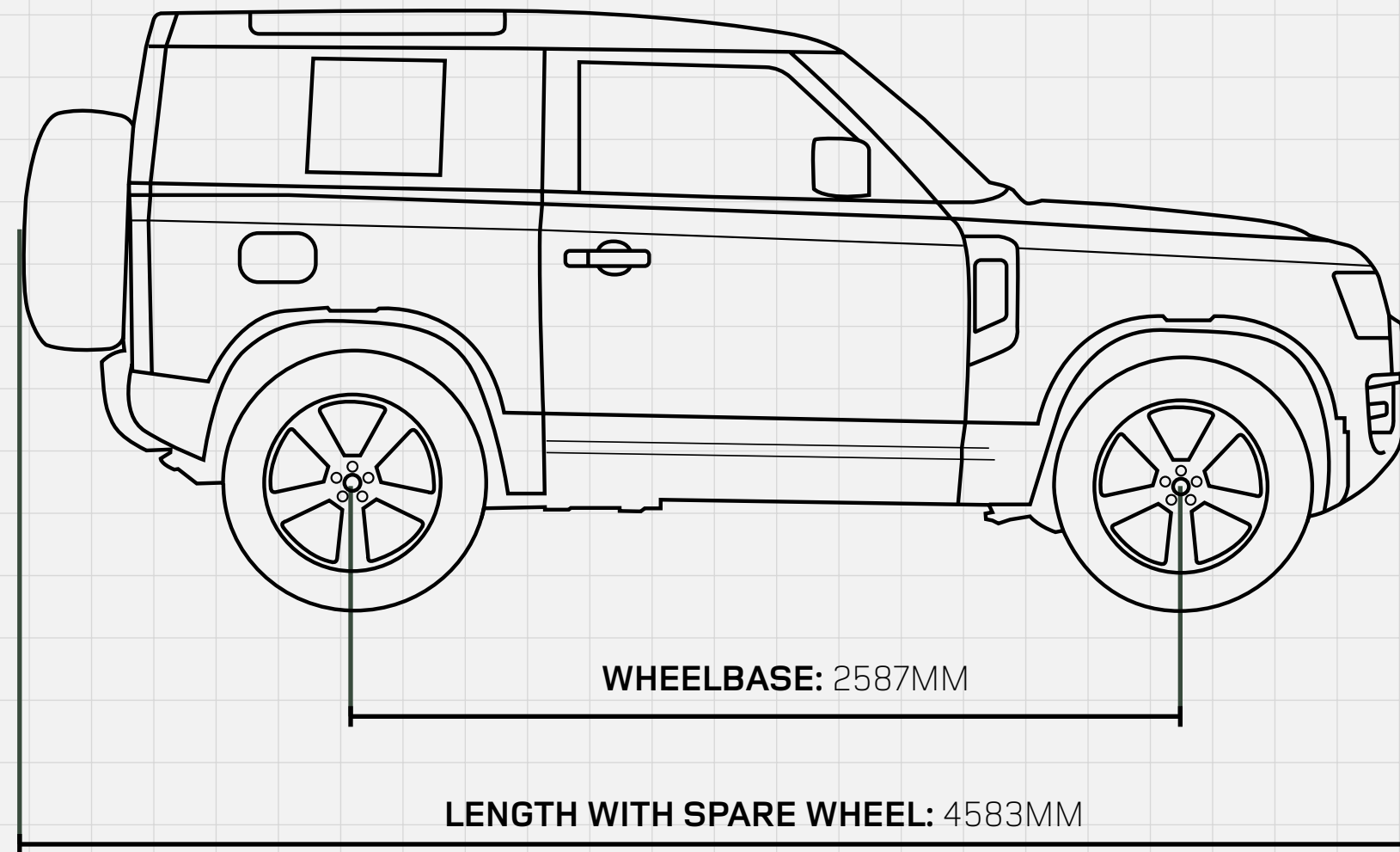
2020 MODEL YEAR LAND ROVER DEFENDER 110 TECHNICAL SPECIFICATIONS



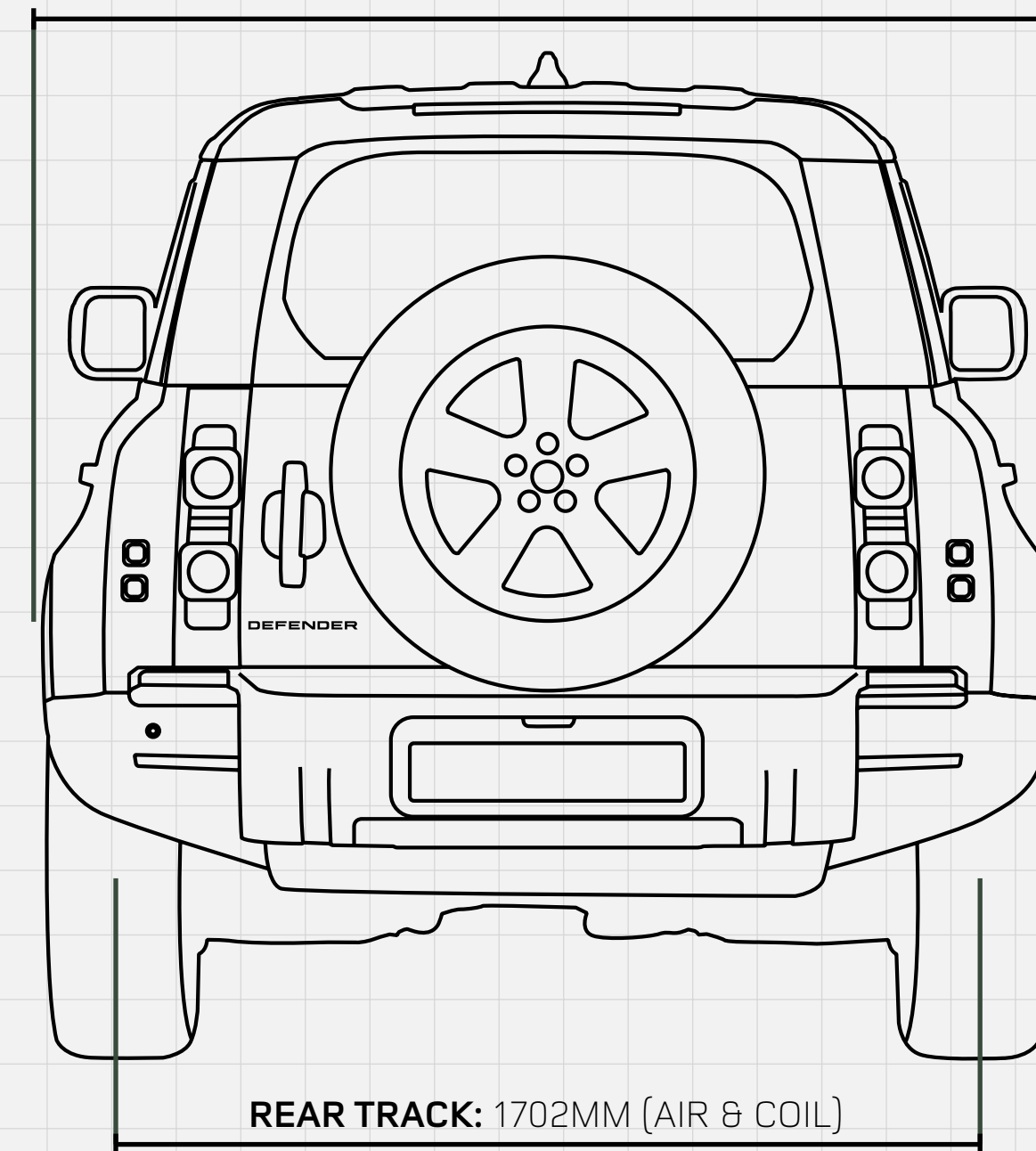
2020 MODEL YEAR LAND ROVER DEFENDER 90 TECHNICAL SPECIFICATIONS

	2.0 SD4 (D4H) 200 PS AWD Automatic	2.0 SD4 (D4H) 240 PS AWD Automatic	2.0 Si4 (P4) 300PS AWD Automatic	3.0 I6 (P6) 400PS AWD Automatic MHEV
Engine type	Inline 4 Cylinder, 16 Valves, Common Rail Direct Injection		Inline 4 Cylinder, 16 Valves, Electronic control, direct injection	Inline 6 Cylinder, 24 Valves, Electronic control, direct injection
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Max power	200PS (147kW) @ 4000rpm	240PS (177kW) @ 4000rpm	300PS (221kW) @ 5500rpm	400PS (294kW) @ 5500rpm
Max torque	430Nm (317lb ft) @1400rpm		400Nm (295lb ft) @ 1500-4000 rpm	550Nm (406lb ft) @ 2000-5000 rpm
Euro standard	EU6d			
Fuel tank capacity (litres) (usable)	83.5		88.5	
Steering	Electronic Power Assisted Steering (EPAS) rack and pinion			
Front suspension	SLA suspension with twin lower links			
Rear suspension	Integral link suspension			
EXTERIOR DIMENSIONS				
Drag coefficient (Cd)	From 0.4		From 0.38	From 0.4
INTERIOR DIMENSIONS				
Headroom (mm)	Row 1: 1030; Row 2: 980			
Legroom (mm)	Row 1: 993; Row 2: 929			
Luggage capacity (litres)	Row 1: 1563; Row 2: 397			
WEIGHT				
Unladen (EU) (kg)	5 Seat: 2208 6 Seat: 2231		5 Seat: 2140 6 Seat: 2162	5 Seat: 2245 6 Seat: 2268
Unladen (DIN) (kg)	5 Seat: 2133 6 Seat: 2156		5 Seat: 2065 6 Seat: 2087	5 Seat: 2170 6 Seat: 2193
PERFORMANCE				
0-60mph (0-96km/h) (secs)	9.6	8.6	7.6	5.7
0-62mph (0-100km/h) (secs)	10.2	9	8	6
Top speed (km/h / mph)	175 / 109	188 / 117	191 / 119	Performance pack: 208 / 129 Standard: 191 / 119
Fuel consumption l/100km (mpg) NEDC Equivalent (Tyre Class A)	7.5 (37.7)	7.5 (37.7)	5 seat: 9.8 (28.8) 6 seat: 9.9 (28.5)	9.6 (29.4)
CO ₂ emissions (g/km) NEDC Equivalent (Tyre Class A)	199	199	5 seat: 224 6 seat: 227	219
Fuel consumption l/100km (mpg) WLTP (TEL Combined)	5 seat: 8.8 (32.2) 6 seat: 8.8 (32.1)	5 seat: 8.8 (32.2) 6 seat: 8.8 (32.1)	5 seat: 11.2 (25.1) 6 seat: 11.3 (25.0)	5 seat: 11.0 (25.6) 6 seat: 11.1 (25.5)
Fuel consumption l/100km (mpg) WLTP (TEH Combined)	5 seat: 9.4 (29.9) 6 seat: 9.5 (29.9)	5 seat: 9.4 (29.9) 6 seat: 9.5 (29.9)	5 seat: 12.2 (23.2) 6 seat: 12.2 (23.1)	12.0 (23.6)
CO ₂ emissions (g/km) WLTP (TEL Combined)	5 seat: 230 6 seat: 231	5 seat: 230 6 seat: 231	5 seat: 255 6 seat: 256	5 seat: 251 6 seat: 252
CO ₂ emissions (g/km) WLTP (TEH Combined)	248	248	277	5 seat: 271 6 seat: 272

2020 MODEL YEAR LAND ROVER DEFENDER 90 TECHNICAL SPECIFICATIONS



OVERALL HEIGHT:
1969MM (AIR)
1974MM (COIL)





ABOVE & BEYOND



DEFENDER

THE NEW LAND ROVER
DEFENDER