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## **EXTENDED PRESS PACK – THE ALL-NEW LAND ROVER DISCOVERY**

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### **1.0 – AN ALL-NEW DISCOVERY DESIGN**

The fifth generation Land Rover Discovery combines a radical new exterior design with a highly versatile interior that's capable of seating up to seven full size adults(1). The result is a revolutionary full-size SUV that brings new levels of sophistication, desirability, capability and versatility to the Discovery family.

Originally previewed with the 2014 Discovery Vision Concept, the latest Discovery model incorporates key elements of the model's DNA as established within the Land Rover brand. Inside, the all-new Discovery incorporates intelligent new packaging solutions which ensure the driver and passenger are more comfortable than ever before, and are afforded plenty of space for all their gear.

**Gerry McGovern, Land Rover Chief Design Officer** said: “The Discovery Vision Concept set the tone, alluding to a radical departure in design for the new Discovery family. Now, we have turned that concept into a production reality, this beautifully proportioned vehicle is a highly versatile family SUV that makes a compelling statement to our customers.”

## 1.1 Revolutionary Design

While the all-new Discovery looks very different, it is still unmistakably a Discovery. Sophisticated surfaces and optimized proportions combine with beautiful detailing and precision manufacturing to create a highly capable and versatile SUV with a more evocative design than ever before.

Fans of previous generations of the Discovery model line will instantly recognize the distinctive stepped roofline, which has identified each of the four previous generations of Discovery and provides an elegant solution to a practical interior occupant spacing need.

At the front, the sculpted surfaces, jewel-like headlamps and the raked windshield on the all-new Discovery break with the model's tradition, while the daytime running lamps deliver a modern appearance and a distinctive new light signature.

In profile, the side of the new model highlights the optimized volumes and proportions of the Discovery; the wheelarch design echoes Discovery Sport, with its distinctive castellations visually 'locking' the wheelarches to the vehicle body. The new form language features pronounced, yet smoothly contoured wheelarches, giving the all-new Discovery at both times a more planted and dynamic appearance.

The streamlined design ensures the all-new Discovery is the most aerodynamic Discovery yet, with a drag coefficient from 0.35 contributing to improved efficiency and NVH reductions.

At the back, the LED rear lamps have a horizontal emphasis, giving the Discovery a more sporty appearance. Breaking from the last four generations of Discovery design, the all-new model features a new one-piece tailgate that allows for a more sporting rear design that would not have been possible with the previous split arrangement. The new tailgate's rounded profile integrates seamlessly with the body sides and provides a number of practical benefits.

- The larger opening makes loading and unloading luggage easier than before.
- The larger tailgate provides improved shelter from the elements when raised.
- A carefully shaped rear spoiler – honed in the wind tunnel – which has also been integrated into the tailgate, plays a significant role in minimizing dirt accumulation on the rear glass, optimizing rear visibility without compromising aerodynamic performance.

**Massimo Frascella, Creative Director Exterior**, said: “The all-new Discovery is a design revolution for the Discovery family. Compared to the LR4 the taut bodywork of the Discovery highlights the improved interior volume and exterior proportions that deliver a premium SUV. We have incorporated key elements of existing Discovery DNA, such as the stepped roof line and distinctive C-pillar design, and refined them for the 21st Century ensuring it is still clearly recognizable as a Discovery.”

## 1.2 Premium Detailing

The all-new Discovery is available with optional adaptive LED headlamp technology(4). The jewel-like LED units create a unique lamp signature that closely follows the bold design previewed by the Discovery Vision Concept. On all trim levels, this includes distinctive daytime running lights with 'lightpipe' elements, which turn from white to amber when the turn signals are used.

An extensive choice of 18 different exterior paint options are available for the all-new Discovery; they include, Namib Orange, Silicon Silver, Fuji White, Santorini Black, Corris Grey, Indus Silver, Loire Blue, Aintree Green, Firenze Red, Scotia Grey, Kaikoura Stone, Montalcino Red, Yulong White, Farallon Black, Waitomo Grey, Carpathian Grey, Aruba and Narvik Black). Owners also have the option of specifying a Black or Grey contrast roof, providing an additional level of personalization.

Across the range of trim levels, for the first time, owners have a choice of 12 alloy wheel designs ranging from 19- to 22-inches. An optional full-sized spare wheel mounted under the body at the rear can also be specified.

In addition, a comprehensive range of accessories have been designed to integrate seamlessly with the new model, including, all-weather floor mats, towing and off-road accessories, optional roof bars and a variety of roof rack attachments for bikes, storage and water sports.

### 1.3 Key Design Features

Rather than the evolutionary change of previous Discovery models like the LR3 and LR4, the dramatic design of the all-new Discovery represents a radical departure from previous models. Even with the all-new design, the fifth generation model retains established Discovery DNA. The trademark stepped roof and highly visible C-pillar are inspired by Discovery models of the past. The C-pillar design in particular gives the profile of the new vehicle additional drama and is a shared design cue for the whole Discovery family, including the smaller Discovery Sport.

The customary stepped roof is synonymous with previous generations of Discovery; it allows for impressive headroom in the third row of seats while a choice of panoramic roof options is designed to establish a feeling of space and light inside – bringing the outside in.

The fixed panoramic design in the rear includes two separate sections – the largest glass area ever for a Land Rover roof – while upfront there's an opening section that accommodates both tilt-and-slide functions. Twin independently electrically controlled sunblinds provide shade and privacy when required to either the front or rear occupants.

Elegant side fender vents incorporate a horizontal, blade-like treatment that flows into the new model's 'V'-grooved feature line; another strong cue of the Discovery family. While the tailgate design has changed to a one-piece opening, the asymmetric mounting of the licence plate in it is a visual link to Discovery models of the past. Once the one-piece tailgate has opened, an innovative new optional 11-inch Powered Inner Tailgate delivers the enhanced versatility Land Rover has become best known for.

When equipped, this clever design solution includes an additional fold-down panel inside the rear load space that fits snugly against the tailgate when shut. It can be used to retain luggage when the tailgate is opened, or folded down to provide event seating and easy access to the large rear load area.

### 1.4 Designed From the Inside Out

The all-new Discovery is a tour de force of modern design and quality materials, and was engineered with a laser-like focus on the application of advanced technologies. The design and engineering teams at Land Rover have produced a full-size SUV interior that provides improved space and versatility by careful analysis and optimization of every aspect of its design.

**Mark Butler, Creative Director Interior**, said: "The revolutionary exterior in the all-new Discovery encases a sophisticated, versatile and spacious interior. The central infotainment and climate control panels are highly refined, intersected by a strong vertical pillar that's both clean and customer friendly. This is a prominent interior design cue of the Discovery family. The precise finishes and use of premium materials throughout are designed to give customers a relaxing experience and accommodate the intuitive use of advanced technology under the skin."

Inside, strong vertical elements intersect the crossbeam of the dashboard and clearly define the uncluttered central dash console design. The console features minimal switchgear which is designed to remain intuitive and reduce driver distraction. Configurable ambient lighting and the availability of contrast stitching give a luxurious, crafted feel to the entire cabin.

A wide choice of material finishes are available throughout, including premium Windsor leather and Natural Shadow Oak veneers; the interior is available in a choice of five colorways(3) including Ebony, Acorn, Nimbus, Vintage Tan and Glacier.

These high quality materials combine with the clever use of technology to deliver a unique blend of design excellence and engineering integrity for the all-new Discovery. The intersection of design and engineering is perhaps best expressed by the new optional Land Rover Intelligent Seat Fold function(2).

The clever system allows owners to reconfigure the second and third row seats(2) using switches just inside the tailgate, on the C-pillar, via the infotainment touchscreen(8), or even remotely using a smartphone(5).

## 1.5 Versatility as Standard

The designers and engineers at Land Rover have maximized every spare inch of space to provide additional storage spaces throughout the interior. Their addiction to storage is demonstrated by the significant increase in stowage space over the LR4 available for front passengers, including:

- Upper (85.4 cu. in.) and lower (67.1 cu. in.) instrument panel stowage
- Upper (293 cu. in.) and lower (421 cu. in.) glove boxes
- Front (373.3 cu. in.), mid (341.7 cu. in.) and rear (73.2 cu. in.) center console stowage
- Row 3 cubby boxes – 158.6 cu. in. in total
- Door stowage areas (front and rear, upper and lower) – 891 cu. in. in total
- Under luggage floor stowage – 4.5 cu. ft. (on five seat models)

The thoughtful touches extend to the climate control panel on the central console, which includes small-item stowage. The gloss black fold-down panel reveals 85 cu. in. of hidden stowage space for smaller items such as a smartphone or wallet, while another storage area in the center console (below the cup holders) can accommodate four tablet computers or a pair of two-liter beverage containers. The central armrest can hold up to five tablet computers or accommodate an optional freezer / chiller compartment.

Even the bag hook – introduced on the original Discovery – has been reinvented for the new model. The new push-operated design on the side of the transmission tunnel in the front passenger footwell sits flush with the surrounding surface. Pushing against its spring-loaded surround exposes the hook and, when released, tightly secures the carrier bag handles to ensure the contents remain upright.

Elsewhere, both front and rear passengers benefit from a large lower storage space that can accommodate 2-liter beverage containers.

Further storage solutions include double map pockets on the rear of the driver and front passenger seats. Occupants travelling in the third row seats haven't been forgotten; individual storage areas on top of the rear side panels are available with a USB charging point, while cupholders are located to the side of the seat cushions in row three(1).

A total of up to six 12V sockets and as many as seven USB charging points (up to nine when the rear seat entertainment package is fitted) across all three rows of seats ensure the all-new Discovery can comfortably cope with the demands of the most connected passengers, allowing them to power their smartphone or tablet simultaneously with an extensive combination of power supply options.

## 1.6 Usable Space for Seven Adults

The all-new Discovery measures 195.7 in. long, 87.4 in. wide (mirrors out) and 72.7 in. tall, making it 5.5 in. longer, but 1.6 in. lower than the outgoing LR4. Its 115.1 in. wheelbase has increased by 1.5 in., creating generous interior space, while the compact design of the advanced integral-link rear suspension system helps minimize body intrusion and maximize interior space.

The second-row seats can slide forwards and backwards by 6.3 in., allowing owners to optimize luggage space and rear legroom as required, as well as improve access to the third row(1).

The trademark stadium seating in the Discovery is accommodated by its distinctive stepped roof which ensures all but the tallest passengers enjoy excellent forward visibility and comfort in each of the three rows(1). The rearmost seats have been designed to accommodate 95<sup>th</sup> percentile adults (74.8 in. tall), so comfort is assured in every seat.

Heated seats are available in the front, middle and the third row, while a total of four ISOFIX mounting points make it possible to fit child safety seats in the rearmost row(12). Up front, heated and cooled climate seats with a massage function and 16-way adjustment are also available.

For customers who do not require the added versatility provided by folding third-row seats, the all-new Discovery comes standard in a five-seat configuration.

## 1.7 First Edition Launch Model

To celebrate the launch of the all-new Discovery, an exclusive First Edition model limited to about 500 examples in the United States will showcase some of the key design and technology features of the new model.

The Discovery First Edition is available in three striking exterior color combinations and with three interior colorways, giving the very first customers a genuinely distinctive version of the all-new Discovery.

Bespoke details include unique etched map detailing on the aluminum trim for the doors and dashboard, unique badges, bold color choices and a comprehensive list of standard equipment.

First Edition vehicles will be available in Namib Orange with a black grille and detailing, Narvik Black contrast roof and 21-inch black wheels; Silicon Silver with the same black grille, detailing and 21-inch silver wheels; or Farallon Black with 21-inch silver wheels, a black grille and detailing.

In the United States, the standard range is comprised of SE, HSE and HSE Luxury derivatives, with an optional Black Design Packages available on all variants.

All SE models feature 19-inch alloy wheels, leather upholstery, four-mode Terrain Response® system(4) and two-zone automatic climate control. Optional air suspension is also available.

The HSE trim adds satellite navigation(8), 20-inch alloy wheels and LED headlamps.

Top of the range HSE Luxury derivatives include Windsor Leather upholstery, 20-inch alloy wheels, air suspension, a panoramic sunroof and power third row seats as standard.

## **1.8 Dynamic Design Package**

The new Dynamic Design Package provides scope for greater personalization on HSE and HSE Luxury models and includes a host of design enhancements.

Exterior features include a choice of optional 21- or 22-inch dark grey satin finish cast alloy wheels; a Black or Corris Grey contrast roof, as well as distinctive new front and rear bumpers. The Dynamic Design Package on the Discovery also updates the grille, fender vents and mesh, vehicle script and mirror caps in a Narvik Black finish. Exterior badging is also deleted, providing a cleaner appearance.

The interior features a selection of upholstery finishes including new Blue and Windsor leather with contrast stitching; Windsor leather on the upper fascia and door tops, as well as dedicated carpet mats with Nubuck binding. A sports steering wheel, featuring contrast stitching, updated pedals and paddle gearshifts provide further design enhancements.

## **2.0. ENGINEERING EXCELLENCE**

Achieving the perfect balance of design and engineering integrity is core to the success of each and every new Land Rover. This engineering excellence is evident throughout the all-new Discovery with a variety of features including its innovative optional Intelligent Seat Fold technology(2) and the range of modern powertrains available at launch.

The all-new Discovery has been engineered to deliver customary Land Rover all-terrain capability while also enhancing on-road dynamics and offering heightened levels of refinement and comfort over the outgoing LR4. A comprehensive suite of driver assistance features provides outstanding convenience and peace of mind to new owners.

**Nick Rogers, Executive Director, Product Engineering**, said: “The all-new Discovery builds upon the practicality and versatility of the LR4, offering the same supreme breadth of capability that only a Land Rover can. Our continued drive of pioneering technologies, lightweight aluminum architectures and new advanced powertrains ensure the Discovery family appeals to consumers on multiple levels.”

Advances in technology have allowed a full program of virtual testing procedures to be conducted well before a physical prototype was ever created. These virtual tests included replicating extreme events such as sand dune impacts, as well as more conventional analysis of stability during towing and load bearing tests of roof rack systems.

Once complete, Land Rover engineers set about completing more than 35,000 individual tests across all components and systems using physical prototypes. This comprehensive program involved taking the all-new Discovery to some of the most unforgiving locations on earth; from the extreme heat and dust of the Middle East, to sub-zero temperatures of the Arctic Circle. This punishing test and development schedule ensured that the new model has the durability and capability to meet the requirements of the most demanding owners around the world.

## **2.1 New Technology and Convenience Features**

The all-new Discovery is packed with innovative technology that provides more convenience, practicality and greater versatility than ever before. These technologies include Intelligent Seat Fold(2) as well as the integration of Activity Key technology.

**Nick Collins, Discovery Vehicle Line Director**, said: "Every new system has been developed for a reason, to enhance the ownership experience, delivering greater convenience and versatility for our customers."

### **2.1.1 Intelligent Seat Fold**

The fifth generation Discovery features Intelligent Seat Fold technology(2) which allows the seats in rows two and three to be configured four separate ways;

- Switches within the luggage area allow the seats to be folded and unfolded at the touch of a button, while standing behind the vehicle.
- A switchpack located on the C-pillar allows adjustment of third-row seats(1) from the rear doors
- The row two and three seats can also be reconfigured using the main touchscreen display from inside the vehicle(8).
- Seats can be adjusted remotely using Land Rover InControl® Remote smartphone app technology, allowing customers to rearrange the seating layout before they reach the vehicle<sup>(6)</sup>; for example from the checkout of a store when purchasing large or bulky items.

This unique technology uses a series of small and efficient motors, which allow the third row seats(1) to be folded in as little as 12 seconds. The seats in row two can be raised or lowered in 15 seconds. They also feature their own button (outside shoulder of the seat) allowing passengers to individually raise or lower the seat back to get into and out of the third row.

To protect against crushing or tipping of items, the seats feature anti-pinch and stall detection technologies. Advanced weight sensors in the seats and the seat belt buckles are able to detect when a seat is occupied, only allowing movement if it is safe to do so.

If the seat is folding and it detects an item, the fold will stop and the seat will unfold to protect against crushing. Alternatively, if the seat is folded flat with an item stored on top, the seat back will not raise. The intelligent system is also able to detect potential clashes between seats and will automatically re-adjust to prevent any interference.

### **2.1.2 Exceptional Versatility**

The flexible loadspace of the all-new Discovery can be configured to carry items of a variety of shapes and sizes with absolute ease and convenience, with a total load volume of 43.47 cu. ft. behind the second-row seats. In this configuration, there is enough space to load taller and wider items thanks to load space opening, which measures 33.6 inches tall and 45.3 in. wide.

If more space is needed for even larger, bulkier items, folding the second row seats provides up to 88.3 cu. ft. of carrying capacity. With all seven seats(1) in place, the loadspace available is still a useful 9.1 cu. ft. – enough to carry a golf bag or as many as three carry-on bags.

### **2.1.3 Optional Powered Inner Tailgate**

The Discovery family has always been synonymous with versatility and its design has changed through the generations to meet the developing needs of owners.

This is demonstrated by the new single-piece tailgate design, which replaces the previous horizontally split configuration introduced with the arrival of the third generation Discovery in 2004. The original 1989 Discovery featured a side-hinged rear door, so this aspect has constantly evolved to meet customers' changing demands.

The single-piece tailgate in the all-new Discovery is the ultimate 21<sup>st</sup> century solution for active owners and modern families alike. When open, the tailgate on the all-new Discovery provides a wider aperture than before and improved shelter, affording greater protection against the elements for owners when using the load area at outdoor events or loading cargo. To ensure owners are still able to enjoy all the benefits provided by the previous split tailgate, Land Rover has developed a new optional Powered Inner Tailgate.

The powered Inner Tailgate incorporates an additional fold-down section that deploys when the tailgate is opened. The 11.2 in. long tailgate serves as impromptu event seating and is able to support a maximum load of 661.4 lbs., making it the perfect place to enjoy a tailgate picnic or to change out of muddy boots – all under the shelter of the tailgate.

Opening the single-piece tailgate using the key fob or gesture controls raises the trunk lid and lowers the inner tailgate panel, which fits vertically against the closed tailgate, automatically. Using the button on the tailgate leaves the panel in its raised position, so it functions as a load retainer to prevent loose or unsecured items from falling out of the trunk. A button inside the load area can then be used to lower the Powered Inner Tailgate section.

#### **2.1.4 Activity Key**

The optional Activity Key allows owners to lock and unlock the vehicle without the need to carry a conventional key fob.

First launched with the 2017 Jaguar F-PACE, the Activity Key is designed as a durable wristband to be worn during outdoor activities and is activated by holding the wristband up to the 'D' in the rear Discovery badge. This locks the vehicle and disables the conventional keys, which can be left safely inside the vehicle.

The Activity Key requires no batteries, instead relying on secure RFID technology. Prior to launch, the Activity Key was put through a series of rigorous physical tests to prove its capabilities in extreme environments, ensuring it can withstand water to a depth of 98.4 ft. and temperatures ranging from -58 to +257 degrees Fahrenheit.

#### **2.1.5 Land Rover InControl® Touch Pro**

The all-new Discovery is available with the Land Rover InControl® Touch Pro infotainment system(10), which provides greater connectivity than ever before including access to a range of apps through its updated 10-inch high-resolution touchscreen display(6).

**Peter Virk, Land Rover Director of Connected Technologies and Apps**, commented: "Every day it is more and more important to stay connected wherever you are and whatever you're doing. Our InControl system allows owners to stay in touch with, and configure, their vehicle from anywhere in the world."

The intuitive infotainment system delivers enhanced ease-of-use and faster processing over earlier systems. Along with all other entertainment functions, InControl® Touch Pro also manages the satellite navigation, heating and vehicle controls(6).

For enhanced connectivity, InControl® Touch Pro Services includes InControl WiFi™ connectivity for up to eight devices(11). InControl Apps also allows owners to use selected apps from their smartphone on the 10.2-inch touchscreen(6). Bluetooth is standard throughout the range.

In addition, InControl Touch Pro also provides updated satellite navigation functions, including door-to-door routing. Door-to-door routing directs owners on the final part of their journey on foot via a smartphone app(6).

Another new function is Commute Mode. This intelligent feature 'learns' common routes, for example the daily commute, and advises the optimum route dependent on live traffic data without a destination being entered manually by the driver. A live ETA function can inform friends and colleagues of the driver's whereabouts and automatically send updates with accurate arrival times(8).

**InControl Remote** allows the owner to lock and unlock their vehicle using the InControl Remote app on an Android™ or Apple® smartphone or Apple watch. This app can also be used to operate the climate control remotely, allowing the driver to set the all-new Discovery to a warm or cold setting before setting off on their journey(5).

**InControl Protect** gives drivers peace of mind thanks to SOS Emergency call technology with Automatic Collision Detection and Optimized Assistance. In the event of an emergency, an SOS call notifies the emergency services of the location of the vehicle. If the vehicle breaks down, Optimized Assistance transmits its location and vehicle diagnostics data to a recovery company.

The instrument cluster is fitted with twin analog dials and a central five-inch display that shows journey information as well as phone contacts and entertainment settings. This information is enhanced by an optional color Head-up display, which uses laser technology to present satellite navigation instructions and speed limit information without the driver needing to divert their attention away from the road(4).

### **2.1.6 Auto Access Height**

Available Auto Access Height makes entering and exiting the all-new Discovery a hassle-free experience, serving as another convenience feature to enhance the day-to-day ownership experience on vehicles fitted with air-suspension.

To aid entry and exit, the vehicle body height drops by an initial 0.60-in. when the ignition is turned off, or a passenger unclips their seat belt, in anticipation of getting in or out of the vehicle. When an occupant opens a door, the Discovery lowers an additional inch to reduce the step-out height by its maximum of 1.6-in.

The vehicle returns to its automatic ride height or the height manually selected by the driver when pulling away. This thoughtful feature preserves the trademark Command Driving Position(4) found in previous generations of the Discovery, without compromising ease of use.

## **2.2 Advanced Aluminum-Intensive Platform**

The innovative aluminum full-sized Land Rover SUV platform provides the perfect basis for the all-new Discovery, delivering a lightweight but durable architecture that contributes to improved performance and enhanced dynamic abilities.

**Alex Heslop, Chief Product Engineer**, commented: “The all-new Discovery has been designed and engineered around our full-sized SUV architecture to ensure we have built-in our characteristic all-terrain capability. The flexible unibody construction also gave us the chance to develop a versatile, spacious seating solution like no other.”

This lightweight unibody construction is made up of 85 percent aluminum – 43 percent of which is recycled – and is about 1,000 lbs. lighter than the outgoing LR4 which relied on steel ladder construction.

Further engineering innovations have seen more extensive use of high-strength aluminum within the crash structure, while the entire bodyside of the vehicle is pressed as a single aluminum panel, meaning fewer joints, reduced complexity and improved structural integrity.

In addition to improving strength and driving performance, the aluminum structure has been key to improving Land Rover sustainability efforts; up to 50 percent of the sheet aluminum used to produce the body of the all-new Discovery is manufactured from recycled materials.

In combination with lighter chassis components, a simplified exhaust and driveline system, more efficient seat designs and revised wheel and tire sizes all contribute to enhanced efficiency(13). Additional advanced lightweight chassis components include a magnesium cross vehicle beam that supports the instrument panel inside the vehicle as well as a high-precision lightweight casting which supports the grille and front-end components.

The seat structures are made of lightweight high-strength steel while the underside of the vehicle is pressed from a single piece of aluminum for greater structural integrity. As result of these weight saving measures, the all-new Discovery weighs from 4,835-lbs.



The innovative suspension architecture in the all-new Discovery is mounted on optimized steel front and rear subframes. These provide high levels of stiffness for enhanced steering response, chassis performance and greater on- and off-road refinement. The subframes are also designed to withstand off-road impacts while providing additional protection to the chassis and powertrain systems.

The fully independent suspension on the all-new Discovery uses a wide-spaced double-wishbone layout at the front and an advanced multi-link layout with an integral link at the rear. The integral link allows engineers to achieve stiffer damping when necessary for superior body control without compromising comfort and impact absorption.

## **2.3 Advanced, Efficient Engines**

The all-new Discovery is powered by a selection of proven Jaguar Land Rover diesel and petrol engines. All engines are paired with a smooth-shifting eight-speed ZF® automatic gearbox, which can be controlled manually by using the steering wheel-mounted gearshift paddles to provide the ultimate flexibility.

A series of advanced technologies are designed to enhance fuel efficiency across the entire range(13). All engines feature the Intelligent stop/start system with smart regenerative charging used across petrol and diesel powertrains. These features are supported by ECO Data, which allows drivers to see real-time fuel economy data on the central touchscreen display. The intelligent system can even provide driving tips on how to further improve efficiency.

### **2.3.1 Six-Cylinder Td6 Diesel**

In the US, the all-new Discovery is available with a powerful 254HP 3.0-liter turbocharged V-6 diesel engine, badged Td6, shared with both the Range Rover and Range Rover Sport. The single-turbo engine features low-pressure exhaust recirculation, a two-stage oil pump and revised fuel-injector nozzle for improved responses, refinement and efficiency.

The 254HP engine delivers stronger performance than before and the benchmark 0-60mph sprint takes only 7.7 seconds (0-100km/h in 8.1 seconds)(14). With a significant 443 lb. ft. of torque on offer from just 1,750 rpm, the new Td6 diesel delivers relaxed cruising refinement and towering capability over a variety of terrains.

### **2.3.2 Six-Cylinder Petrol**

The Land Rover supercharged 3.0-liter V6 engine is an impressive performer. The 340HP petrol engine develops 332 lb. ft. of torque and powers the fifth generation Discovery from 0-60mph in 6.9 seconds (0-100km/h in 7.1 seconds)(14).

### **2.3.3 Smooth And Efficient Eight-Speed Automatic**

All engines are fitted with a ZF eight-speed automatic gearbox, which has been engineered by the powertrain experts at Land Rover to combine smooth shifts with sharp responses and optimized fuel efficiency(13).

The gearbox is controlled using the rotary gearshift controller that rises from the center console, while manual changes can be prompted with the use of the steering wheel-mounted shift paddles for dynamic driving and precise control when completing off-road maneuvers.

The eight closely spaced ratios ensure that gear changes are almost imperceptible, with each completed in a fraction of a second. For greater control, and if added performance is required, the gearbox will accept multiple downshifts and maintain a smooth transition between the ratios.

## **2.4 Enhanced On- And Off-Road Ability**

The all-new Discovery has been extensively tested to ensure on-road performance and comfort are a match for its off-road capability.

Developing a more composed driving experience was a key focus for the engineering team and this has been achieved by using a combination of technological innovations, including advanced suspension architecture and the latest generation speed-dependent electric power-assisted steering. As a result, the fifth generation Discovery delivers a more engaging driving experience without sacrificing any of its comfort.

Away from congested city streets and highways, the ability of the all-new Discovery on variety of surfaces, terrains and weather conditions makes it one of the most capable vehicles to wear a Land Rover badge. Its generous approach,

departure and breakover angles, combine with impressive wading depth abilities and ground clearance – augmented by a suite of innovative technologies – ensuring it remains a leader when faced with the toughest off-road environments.

### **2.4.1 Unrivalled Comfort for the Whole Family**

The all-new Discovery is the ultimate family and active lifestyle companion, delivering unrivalled long-haul comfort for up to seven passengers(1) and a confidence-inspiring environment for the driver thanks to its raised Command Driving Position(4), simple controls and enhanced chassis technology.

**Mike Cross, Land Rover Chief Engineer, Vehicle Integrity**, said: “When we began developing the all-new Discovery we set out to deliver improved cornering dynamics with better body control than before – but we knew this couldn’t come at the expense of the legendary Discovery ride quality.”

Key to achieving the perfect balance between composure and comfort is a choice of advanced Land Rover suspension layouts. This vital ingredient in the quest for optimized ride quality comprises wide-spaced double-wishbone front suspension and an integral link rear set-up.

The integral link provides softness when required, to enhance the comfort and impact resistance, yet delivers greater stiffness for improved composure and steering responses when cornering. The result is a cushioned and relaxing ride over uneven surfaces with greater poise in dynamic situations, making the all-new Discovery a soothing companion on a variety of surfaces, terrains and weather conditions.

Available air suspension delivers even greater comfort and offers a wide range of adjustment for the ultimate in convenience and capability. The adjustable set-up can be lowered by up to 2.36 in. for easier loading access and to assist when hitching trailers or raised by 2.95 in. to increase ground clearance.

A series of additional technologies support the dynamics of the fifth generation Discovery while at the same time enhancing driver and passenger confidence. Dynamic Stability Control (DSC) has been designed to assist the all-new Discovery in cornering with greater confidence and security by monitoring all four wheels to detect, and counteract, understeer and oversteer. If detected, the intelligent system applies a braking force to the inside wheels to help tighten the cornering trajectory of the vehicle; simultaneously the system can reduce engine torque to help the driver maintain their desired path. This latest-generation system has enhanced understeer control, which applies braking to all four wheels to reduce vehicle speed and regain control more effectively(4).

The fifth generation Discovery also features the latest version of Land Rover Electric Power-Assisted Steering (EPAS) technology. The carefully calibrated variable ratio system allows for a more natural and responsive steering feel; remaining easy to maneuver at low speeds and offering a more surefooted feel at higher cruising speeds(4).

The latest EPAS system also supports the new model’s Terrain Response® 2 function by varying the steering feedback depending on the friction level of the road surface. The adoption of EPAS has also allowed Land Rover engineers to integrate Park Assist technology, which is designed to assist the driver with parking maneuvers. This feature is available for the first time on the Discovery(4).

### **2.4.2 Innovative Off-Road Geometry**

The all-new Discovery retains its status as one of the most capable premium SUVs in off-road situations, by combining advanced driver assistance technologies with outstanding off-road geometry.

Exceptional ground clearance of up to 11.14 in., combined with an approach angle of up to 34 degrees, a breakover angle of 27.5 degrees and departure angle of 30 degrees ensure the fifth generation Discovery, when equipped with air suspension, is able to climb up, over and down even the most challenging off-road terrain(3).

The new model’s suspension is designed to optimize on-road dynamics, yet its outstanding geometry and wheel articulation of 19.7 inches(3), aided by an advanced available air suspension, gives owners even greater confidence in the capability of Discovery when negotiating arduous and undulating surfaces.

With a wading depth of 35.4 in(4), the newest addition to Discovery family is designed to conquer even tougher terrain than its predecessor, the LR4.

### **2.4.3 Full-Time Four-Wheel Drive with Two-Speed Transfer Box**

For the ultimate all-terrain capability the fifth generation Discovery is available with a two-speed transfer box, providing selectable high and low range gears for optimum on-road and off-road performance. The intelligent system provides a standard 50/50 torque split between front and rear wheels, but uses a range of sensors to distribute torque between the wheels depending on the conditions.

The two-speed fully synchronized 'shift on the move' system allows the driver to swap between high and low ratios without having to stop the vehicle, at speeds of up to 37mph (60km/h).

### **2.4.4 Full-Time Four-Wheel Drive with Torsen Differential and Single-Speed Transfer Box**

Owners who don't require a low-range transmission can opt for the full-time four-wheel drive system with single-speed transfer box. This provides a torque split of 42/58 across the front and rear axles, but can redistribute torque to the axle with the most grip, up to 62/38 and 22/78 respectively.

The single-speed transmission provides a 37.47 lbs. weight saving over the two-speed unit and has been designed to deliver excellent on-road performance. This system remains fully integrated with the Terrain Response® system(4) and traction control set-up in order to fully exploit the ability to distribute torque effectively to the front or rear axles.

### **2.4.5 All-Terrain Progress Control**

Following its introduction on Range Rover Evoque, Range Rover and Range Rover Sport, the fifth generation Discovery is available with the innovative All-Terrain Progress Control technology (ATPC) from Land Rover.

The unique system allows the driver to set a crawl speed ranging from 1.2mph (2km/h ) up to 19mph (30km/h) allowing them to concentrate on steering the vehicle and negotiating difficult terrain while the technology controls engine and braking functions(4).

With the system in operation the driver can use the cruise control functions to adjust the speed while an icon in the instrument cluster shows the existing setting and mode.

To assist with low speed acceleration from a stop, Low Traction Launch is also available. The system is designed to help pull away smoothly and easily when accelerating on low-friction surfaces such as wet grass or snow(4).

### **2.4.6 Terrain Response® 2 Auto**

The all-new Discovery is fitted with the next-generation of Land Rover Terrain Response® 2 technology; it automatically monitors the driving conditions to ensure the vehicle is primed to cope with a range of surfaces. Settings include general driving; grass, gravel and snow; mud and ruts; sand; and rock crawl(4).

The intuitive system optimizes a range of vehicle settings to suit the conditions, from the throttle mapping and steering responses, to the suspension set-up and traction control settings. Alternatively, a center-mounted dial allows the driver to manually select the appropriate setting simply and efficiently(4).

### **2.4.7 Four-Corner Air Suspension**

An available four-corner air suspension system in the all-new Discovery is not only designed to improve ride quality when driving on-road, but also to provide greater capability when off-roading.

With its two-stage off-road mode the automatic system is able to vary between two ride heights of +1.57 in. and +2.95 in. At speeds below 31mph (50km/h) the +2.95 in. setting is available; for faster speeds on rutted dirt roads, between 31-50mph (50-80km/h), the vehicle will operate at +1.57 in. In addition, a new Speed Lowering function(3) cuts drag and enhances fuel economy by automatically reducing the ride height by .51 in. at cruising speeds above 65mph (105km/h).

Other functions include enhanced tuning to prevent the suspension from lowering in deep wading conditions, as well as preventing belly-out situations where the center of the vehicle rests on the ground.

### **2.4.8 Additional All-Terrain Technologies**

Complementing the optimized geometry and packaging in the all-new Discovery is a suite of advanced off-road technologies. Whether drivers are faced with a snow-covered public road or towing a horse trailer across a muddy field, the fifth generation Discovery is designed to maintain its composure.

**Mike Cross, Land Rover Chief Engineer, Vehicle Integrity**, said: “Our unrivalled collection of all-terrain technologies gives customers real confidence and ensures that any driver, be they an enthusiastic off-roader or a parent taking their children to school, can deal with a variety of situations confidently.”

The comprehensive range of on- and off-road technologies(4) includes:

- Hill Descent Control (HDC®) designed to maintain a set speed while tackling steep descents off-road(4).
- Gradient Release Control (GRC) slowly releases the brake when moving from a standing start on an incline for greater control(4).
- Electronic Traction Control (ETC) applies a braking force or reduces torque to individual wheels to stop wheelspin(4).
- Roll Stability Control (RSC) designed to detect the beginning of a rollover and to apply the brakes to the outer wheels to bring the vehicle under control(4).

## **2.5 Available Advanced Towing Technology(4)**

The all-new Discovery has the option of being fitted with an advanced driver assistance technology to make the task of towing a trailer as simple as possible, making full use of the new vehicle’s towing capacity of up to 8,201lbs(9).

The optional **Advanced Tow Assist** takes the stress out of reversing by allowing the driver to guide a trailer into position without using the steering wheel. The innovative driver assistance technology helps carry out difficult reversing maneuvers using the rotary Terrain Response 2 controller on the central console to guide a trailer into the desired parking spot(4).

Once the driver has configured the system on the central touchscreen by entering key trailer details, responsive trajectory lines appear on the feed from cameras in the door mirrors showing the anticipated direction of the trailer. By steering the trailer using the rotary Terrain Response 2 controller and operating the pedals, the driver is able to reverse park trailers as the vehicle automatically calculates the necessary steering inputs. The intuitive system will alert the driver if the steering input requested is too severe and would cause a jackknife situation(4).

**Rear Height Adjust** allows the driver to lower and raise the height of the rear of the vehicle using the key fob or switches in the luggage compartment to make hitching a trailer simpler than ever and make it easier for dogs to jump into the back.

Once the towbar is ready, **Hitch Assist** makes it easier to hook up your trailer. Using the surround cameras, the central touchscreen displays the rear towbar and recognises the trailer mounting point. The display then zooms in, showing a trajectory line, which responds to steering wheel inputs to help the driver guide the all-new Discovery accurately into place(4).

With a trailer safely attached, **Trailer Stability Assist** enhances driver assistance on the move by detecting trailer sway and gradually reducing the speed of the vehicle by cutting the engine and gently applying the brakes in order to restore control to the driver(4).

## **2.6 Additional Cutting-Edge Driver Assistance Technology**

Driver convenience and confidence are heightened in the all-new Discovery with the combination of active Driver Assistance systems alongside an array of advanced driver assistance features.

The fifth generation Discovery features an available Autonomous Emergency Braking (AEB) system, as debuted on Discovery Sport, but includes a new pedestrian detection system that can detect adult or child pedestrians, as well as other vehicles in the road and apply the brakes to stop the vehicle(4).

The feature uses a forward-facing camera mounted next to the rear view mirror to calculate the distance of objects in front of the car. This data is then analyzed by a sophisticated on-board computer. In the event of a possible collision, the system alerts the driver with a visual and audible warning. If it detects that the collision cannot be avoided then it is

designed to apply emergency braking(4). The Pedestrian Sensing feature can work at speeds as low as 3.1mph (5km/h) and up to 37mph. Autonomous Emergency Braking can work at speeds up to 49.7mph (80km/h).

Vehicles fitted with Adaptive Cruise Control also come with Intelligent Emergency Braking (IEB). Using the vehicle's forward facing radar, these technologies are designed to detect and monitor any vehicles that are moving in the same direction(4).

If the vehicle ahead suddenly brakes, the driver is alerted to a possible collision. When the system detects that the driver hasn't slowed it will gently and automatically apply the brakes; If a collision is imminent, the system is designed to apply the same pressure as in an emergency braking situation(4).

### **2.6.1 Additional Assistance Technology Fitted To The All-New Discovery Includes:**

- Hill Start Assist holds the brakes for a small amount of time to make it easier for the driver to pull away when parked on steep inclines(4).
- Engine Drag torque Control (EDC) ensures the wheels don't lock up during engine braking in slippery conditions by sending increased torque to affected wheels(4).

### **2.6.2 Advanced Driver Assistance Systems(4)**

A host of available Advanced Driver Assistance Systems (ADAS) provide enhanced convenience in everyday situations.

Using a selection of sensors and cameras situated in and around the car, the **Park Assist** function has three main programs(4).

The **Parallel Park** system uses two ultrasonic sensors on either side of the vehicle to scan spaces beside the vehicle to check their suitability. Once a suitable space has been identified, and following the prompts on the instrument display, the driver is left to control the accelerator, brake and gear selection, using the standard parking sensors to park(4).

The steering is automatically controlled by the Park Assist system leaving the driver free to concentrate on potential hazards such as pedestrians and other vehicles.

**Parking Exit** employs the same systems to help the driver exit a space as it steers the vehicle while they control the speed(4).

In addition to these features, **Perpendicular Parking** now provides assistance when parking in perpendicular parking bays. As with the Parallel Park system, sensors determine whether a space is big enough, with room to open the doors on both sides of the vehicle. Once engaged, the system will steer the all-new Discovery into the space, leaving the driver to control the accelerator, brakes and gear selection(4).

**Blind Spot Monitor** uses rear-facing side-mounted radar sensors to check for vehicles within the vehicle's blind spots. The advanced set-up alerts the driver with a warning light in the corresponding wing mirror(4).

For the all-new Discovery, Blind Spot Monitor also includes **Closing Vehicle Sensing**, which provides added peace of mind on multi-lane roads. The system scans for fast approaching vehicles further behind and alerts the driver they risk a collision if they were to move into the path of an approaching vehicle in an adjacent lane(4).

**Blind Spot Assist** completes the suite of Blind Spot Monitor functions and combines the Blind Spot Monitor and Lane Keep Assist systems. When another vehicle is detected in the blind spot but the driver still attempts to change lane, the technology applies corrective steering torque to prevent a collision, while simultaneously alerting the driver(4).

#### **Advanced assistance programs include:**

- **Adaptive Cruise Control** maintains a preset speed and automatically adjusts to maintain a pre-determined distance from vehicles in front. It is also able to come to a complete stop when in traffic(4).
- **Traffic Sign Recognition** uses a forward-facing camera and satellite navigation information to inform the driver of speed limits(4).

- **Intelligent Speed Limiter** uses the Traffic Sign Recognition and GPS systems to identify speed limits and reduce the vehicle's speed. The speed will be restricted, unless they cancel the function, and the system will use engine braking to slow the vehicle appropriately(4).
- **Auto High Beam Assist** automatically dips the headlights between high and dipped beam when it identifies a vehicle in front (either from its rear or headlamps)(4).
- **Driver Condition Monitor** is able to monitor driver behavior through inputs of steering, brake and accelerator to detect that they are becoming tired and suggest they take a short break(4).
- **Surround Camera System** with 360-degree Surround View, Front Junction View, Rear Junction View, Tow Assist and Hitch Assist, including reversing camera system(4)
- **Lane Departure Warning** warns the driver through a vibration in the steering wheel if the digital camera detects them drifting out of lane(4).
- **Lane Keep Assist** is designed to apply gentle torque to the steering to keep the driver within their lane(4).

## 2.7 Engineered and Manufactured In the UK

The all-new Discovery is manufactured at the Jaguar Land Rover Solihull production facility in the West Midlands, UK, alongside Range Rover and Range Rover Sport.

The Solihull factory has been producing Land Rover vehicles since 1948, with the number of employees at the plant rising to almost 11,000 and vehicle production increasing in the last five years to record volumes.

The facility houses Europe's largest aluminum body shop and final assembly hall – collectively the size of 22 soccer fields – showcasing the pioneering leadership of Jaguar Land Rover in the construction of aluminum vehicles like fifth generation Discovery.

This Solihull facility has been a key part of the company's commitment to increased sustainability. The innovative close-looped system reuses surplus high-grade aluminum from the sheet stamping process within the supply chain. In this way, up to 50 per cent of all sheet aluminum used in the latest Discovery is manufactured from recycled material.

## 3.0 U.S. Models and MSRP(15)

The Land Rover Discovery will be offered in three trim levels, SE, HSE and HSE LUX selectively available with the 3.0L supercharged V6 gasoline engine and the 3.0L turbocharged Td6 diesel engine. Land Rover Discovery models go on sale mid-2017.

Discovery SE	3.0L Supercharged V6, 340hp	\$49,990
Discovery HSE	3.0L Supercharged V6, 340hp	\$56,950
Discovery HSE Td6	3.0L Turbocharged V6, 254hp	\$58,950
Discovery HSE Luxury	3.0L Supercharged V6, 340hp	\$63,950
Discovery HSE Luxury	3.0L Turbocharged V6, 254hp	\$65,950
Discovery First Edition	3.0L Supercharged V6, 340hp	\$73,950

- (1) Third row seating is an optional feature on select Discovery models.
- (2) The Intelligent Seat Fold feature is included on vehicles equipped with optional seven position power seating.
- (3) Depending on the selected Discovery vehicle trim and options.
- (4) These systems are not a substitute for driving safely with due care and attention and will not function under all circumstances, speeds, weather and road conditions, etc. Driver should not assume that these systems will correct errors of judgment in driving. Please consult the owner's manual or your local authorized Land Rover Retailer for more details.
- (5) Land Rover InControl® Remote™ app and data plan with a mobile network operator is required to remotely interact with your vehicle. Intelligent Seat Fold feature on app is included on vehicles equipped with optional seven position power seating.
- (6) Do not use Land Rover InControl® features under conditions that will affect your safety or the safety of others. Driving while distracted can result in loss of vehicle control.

- (7) All prices shown are Manufacturer's Suggested Retail Price. Excludes \$995 destination/handling charge, tax, title, license, and retailer fees, all due at signing, and optional equipment. Retailer price, terms and vehicle availability may vary. See your local authorized Land Rover Retailer for details.
- (8) Driving while distracted can result in loss of vehicle control. Do not operate, adjust or view the navigation or multimedia systems under conditions that will affect your safety or the safety of others. Only use mobile phones and other devices, even with voice commands, when it is safe to do so.
- (9) Discovery vehicle equipped with the 340HP petrol V-6.
- (10) Land Rover InControl® Touch Pro is standard on the HSE trim level and above.
- (11) The Wi-Fi hotspot is intended for passenger use only. Land Rover InControl features may require an additional subscription with separate terms and conditions.
- (12) Please consult owner's manual or your local authorized Land Rover Retailer for details regarding installation of child safety seats.
- (13) EPA estimates not available at time of publication. See your local authorized Land Rover Retailer for updated EPA estimates.
- (14) Always follow local speed limits
- (15) All prices shown are Manufacturer's Suggested Retail Price. Excludes \$995 destination/handling charge, tax, title, license, and retailer fees, all due at signing, and optional equipment. Retailer price, terms and vehicle availability may vary. See your local authorized Land Rover Retailer for details.

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#### **About Land Rover**

Land Rover, the British maker of Land Rover and Range Rover sport utility vehicles, is renowned for providing its clientele with some of the most luxurious and capable vehicles in the world. Every Land Rover vehicle is equally at home both on and off road, and in any setting; be it in the heart of the city, or traversing the countryside. Today's Land Rover lineup includes the Discovery Sport, Range Rover, Range Rover Sport, Range Rover Evoque and LR4 (Discovery). Land Rover designs, engineers, and manufactures its vehicles in the United Kingdom. Land Rover is fully engaged with sustainability initiatives and social concerns with continuous involvement in environmental and community programs. For more information, visit the official Land Rover website at [www.landroverusa.com](http://www.landroverusa.com).

#### **About Jaguar Land Rover**

Jaguar Land Rover is the UK's largest automotive manufacturer, built around two iconic British car brands: Land Rover, the world's leading manufacturer of premium all-wheel-drive vehicles; and Jaguar, one of the world's premier luxury sports sedan and sports car marques.

The company employs almost 38,000 people globally, with 330 in the U.S. and supports around 275,000 more through our dealerships, suppliers and local businesses. Manufacturing is centered in the UK, with additional plants in China, Brazil and India.

At Jaguar Land Rover we are driven by a desire to create class-leading products that deliver great customer experiences. The largest investor in R&D in the UK manufacturing sector, we have invested £12 billion (USD\$15.7 billion) in the last five years and in the current year alone will spend over £3 billion (USD\$3.9 billion) on new product creation and capital expenditure. Last year Jaguar Land Rover sold 487,065 vehicles in 160 countries, with more than 80% of our vehicles produced in the UK being sold abroad.