



HAYABUSA



Metallic Reflective Blue



Glass Sparkle Black

OVERVIEW

The Suzuki Hayabusa created the Ultimate Sportbike motorcycle category and remains popular through refined performance, exquisite styling, and premium build-quality. The 2027 edition of this flagship model is driven by a muscular yet refined inline four-cylinder engine, housed within a proven and modernized chassis that balances precision with comfort and composure. Its performance is expertly managed by an innovative suite of electronic rider aids; all wrapped in stunning aerodynamic bodywork that unmistakably carries the Hayabusa legacy.

Experienced riders and admirers alike will instantly recognize the iconic aerodynamic silhouette, perfected through extensive wind tunnel testing. The body features sculpted vents, air diffusers, and refreshed logos, complemented by a sophisticated LED lighting system that represents the pinnacle of both style and function.

Powered by a torque-rich 1,340cc engine, the Hayabusa delivers a seamless surge of power, accelerating quickly and smoothly. Rider support is achieved through the Suzuki Intelligent Ride System (S.I.R.S.), which offers adjustable power delivery, traction control*, quick shift, Motion Track ABS**, and Combined Brake systems—giving riders effective ways to tailor their riding experience. The recently refined Launch Control system and the addition of the Smart Cruise Control system enhance both performance and convenience.

This third-generation Hayabusa remains true to its roots, focused on delivering the ultimate, balanced sportbike experience. The Suzuki Hayabusa stands as a shining testament to Suzuki's century-long commitment to crafting masterpieces that blend artistry with unmatched performance, reliability, and value. Like its namesake peregrine falcon, the Hayabusa continues to soar above the rest.

KEY FEATURES

- The Hayabusa is instantly recognizable as its wind-cheating body preserves the cues that were inspired by the peregrine falcon – the world's fastest animal. To bring a sophisticated appearance to the iconic Hayabusa, Suzuki's design team incorporated distinct lines and shapes to achieve an expression of refinement and ultimate performance.
- For 2027, riders may choose from a pair of distinguished color schemes. Presenting a premium and powerful appearance are the deep Glass Sparkle Black or the stately Metallic Reflective Blue colorways. Each scheme features the prominent and iconic Hayabusa Kanji symbols and name logos.
- The Hayabusa's legendary 1340cc, four-cylinder, DOHC engine is fed by Ride-by-Wire electronic throttle bodies with dual fuel injectors feeding each cylinder, mixing with pressurized air from the Suzuki Ram Air Direct (SRAD) intakes in the nose of the aerodynamic fairing. Constructed of strong, yet lightweight stainless steel, the symmetrical twin silencer exhaust system delivers an exciting exhaust note.
- The Hayabusa's superbike-caliber, twin-spar aluminum frame delivers a stable ride with nimble handling that can be personalized through the adjustable KYB®-supplied suspension. Optimized aerodynamics, wind protection, and relaxed ergonomics help provide comfort. The brake system is highlighted by the leading-edge Brembo® Stylema® four-piston front calipers with a pair of 320 mm diameter stainless-steel full-floating brake rotors.
- The Hayabusa employs an advanced version of the Suzuki Intelligent Ride System (S.I.R.S.); a comprehensive collection of electronic rider aids like Traction Control* and Bi-directional Quick Shift system that can optimize and personalize the motorcycle's performance characteristics to match the conditions and desires of the rider.
- The S.I.R.S. suite features effective engine speeds for the Launch Control modes while the Smart Cruise Control will not cancel if the rider changes gears by using the Bi-directional Quick Shift system. This recent programming refinement delivers a higher level of rider convenience over the Hayabusa's original cruise control system.
- Full LED lighting is incorporated into the sleek bodywork plus a renowned instrument cluster that combines analog gauges with an advanced TFT LCD display.

ENGINE OVERVIEW

The 2027 Hayabusa is powered by the latest version of its renowned high-performance 1,340cc engine. This inline-four-cylinder architecture is legendary for its accessibility, serviceability, adaptability, and durability. Thoughtful engineering and development maintain the engine's operating efficiency and durability while allowing the Hayabusa to comply with worldwide emissions standards, without diminishing its performance potential. Hayabusa riders will enjoy an exceptional riding experience as this legendary engine delivers greater power and torque with smoother delivery throughout the low-to-mid-speed-range.

ENGINE

- The powerful, 1,340cc, inline-four-cylinder, liquid-cooled, DOHC engine supplies a seamless surge of torque for effortless acceleration.
- Using techniques developed for the GSX-R1000, the crankcases have lubrication passages to help provide up to 54% more oil flow to the crankshaft than the prior generation engine.
- Specialized crankcase assembly hardware and a modern tightening procedure is used to increase engine rigidity and durability.
- U-shaped windows in cylinders' bores allow crankcase pressure created by descending pistons to escape to adjacent cylinders to reduce internal pumping pressure and mechanical power losses.
- Suzuki Composite Electrochemical Material (SCEM) cylinder coating improves heat dissipation, durability, and ring seal. The three-ring, aluminum-alloy slipper pistons have been shaped and reduced in weight (weight of each piston was reduced by twenty-six grams). Conical machining at the piston pin bores improves strength and durability.
- The chrome nitride Physical Vapor Deposition (PVD) piston ring coating is harder and smoother than conventional chrome plating, reducing friction while improving sealing to the SCEM-coated cylinder.
- Like the crankcase, the crankshaft has high flow oil passages to increase lubrication supply at several key areas.
- The connecting rod design reduces weight (by three grams each rod) from the prior generation part while also increasing rigidity.
- With lower mass than the prior generation parts, the crankshaft, connecting rods and pistons reduce internal vibration, which in turn contributes to greater engine durability.
- A gear-driven balancer shaft is timed to the crankshaft to help minimize vibration to the engine and the rider.
- The design of the Twin Swirl Combustion Chamber (TSCC) in the cylinder head was updated in this generation engine to promote faster and more efficient burning of the fuel-air mixture. This update complements other valve train updates, helping increase flow coefficient by up to 5% to improve combustion efficiency.
- The exhaust camshaft's valve lift is higher than the prior generation engine and the timing for both camshafts has been tuned to reduce valve opening overlap, boosting low-to-mid-range engine performance. Wide camshaft's lobes improve valve train lubrication and durability.

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ENGINE CONT.

- Lightweight titanium valves with high-rate valve springs ideally match the camshafts to maintain accurate valve control.
- The cam chain tensioner design minimizes chain runout and uses a Teflon coating on the slipper surface to reduce mechanical loss.
- Fired by independent ignition coil-caps in each cylinder, iridium spark plugs produce more complete combustion and last longer than conventional plugs.
- A curved radiator with a compact, dense-core design and two ECM-controlled electric fans keep the engine temperature stable.
- The fairing design permits high airflow through the radiator, increasing cooling efficiency as compared to the prior generation Hayabusa. Testing has indicated that airflow is increased up to 8% when the Hayabusa is in motion and is approximately 7% better when the cooling fan is moving air during low-to-mid-speed-riding.
- To allow the cooling fans to spin down when stopping in traffic, reducing warm air flow to the rider, the cooling fan blade pitch has been optimized and matched to a smaller fan shroud.
- Positioned below the main radiator, a large-capacity air-cooled oil cooler reduces engine oil temperatures throughout the crankcase.
- The Hayabusa is equipped with Suzuki's Ride-by-Wire Electronic Throttle body system which provides light, natural response with linear control like that of a conventional throttle.
- The electronic throttle bodies have tapered 43mm bores and are part of a high-flow intake system (intake pipe, throttle body, and air cleaner funnel) that is 12mm longer than the prior generation Hayabusa to boost power at low-to-mid-range engine speeds.
- Because the ECM controls the action of the throttle bodies other features can be precisely controlled, such as cruise control, launch, and lift control, the bi-directional quick shift system, cold-start up and idle speed control, and simplified service procedures.
- The throttle bodies use four primary fuel injectors that spray a fine mist of fuel directly into the intake pipes. Four additional Suzuki Side Feed Injectors (S-SFI) are set above the throttle body in the side of the intake funnels. These side injectors spray a fine mist of fuel on a reflecting plate at the top of the throttle body, helping increase power and torque output in the low-to-mid-range.
- The more compact throttle bodies made it possible to increase the air cleaner assembly's capacity from 10.3 liters to 11.5 liters, increasing the air supply to the engine. The air cleaner has a rigid lid with a simplified internal structure that enhances the intake air sound quality.
- The two Suzuki Ram Air Direct (SRAD) intake ducts in the upper fairing route high-pressure, fresh air to the air cleaner boosting performance in a linear fashion as the road speed increases.
- Flow analysis was employed when developing the SRAD ducts on the Hayabusa. The resulting design reduces pressure loss and increases the flow of pressurized air to the air cleaner while contributing to smoother aerodynamics and a more exciting intake sound.
- Suzuki Pulsed Secondary Air Injection (PAIR) system introduces fresh air into the exhaust to ignite unburned hydrocarbons (HC) to reduce carbon monoxide (CO) emissions.
- The exhaust system is 4.5 pounds (2,054 grams) lighter than the prior system with silencers styled to complement the Hayabusa's overall look. The silencers also have more capacity for better performance and have been tuned to emit a more exciting sound off idle and at lower speeds.
- The four-into-two-into-one-into-two exhaust system configuration uses connecting pipes from the #1 and #4 head pipes to help deliver more power and torque at low-to-mid-range speeds. Like the prior generation exhaust, a connector pipe connects the #2 and #3 head pipes for similar benefits.
- The exhaust has high-flow catalyzers in the mid-pipe to further reduce HC, CO, and nitrogen oxide (NOx) emissions. Dual O2 sensors provide instantaneous feedback to the ECM for smooth, clean EFI operation.
- The body of the exhaust silencers (mufflers) will change in color and hue over time in response to the way the bike is ridden. This makes it possible for each rider to add a unique distinctive touch to his or her Hayabusa.

DRIVELINE OVERVIEW

Designed and constructed to manage a broad spread of engine power, the driveline on the 2027 Hayabusa is the high standard of control and convenience on sportbikes. Using the three-mode Bi-directional Quick Shift system lets riders enjoy clutchless up- and down-shifts that can be tuned to match how they want to shift. A SCAS-style clutch system makes sure the engine power effectively gets from the transmission to the rear wheel while slipping just the right amount for peerless manners during engine braking. Riders will praise the hydraulically activated clutch's behavior that delivers a light touch that helps convey a defined engagement point to the lever. The strong drive chain was developed exclusively for the Hayabusa to put power reliably and quietly down at any road speed.

DRIVELINE

- The Hayabusa's six-speed, close-ratio, and constant-mesh transmission can be shifted conventionally or with the Bi-directional Quick Shift system allowing the rider to select racing-style, conventional, or casual riding clutchless shifts.
- The Hayabusa has the latest version of the Suzuki Clutch Assist System (SCAS) clutch that delivers a lighter clutch lever pull than ever before. SCAS serves as a back-torque-limiting system for smooth downshifts while increasing plate tension during acceleration to ensure engine power is effectively transmitted to the rear wheel.
- Hydraulic clutch activation further reduces the lever pull while providing the rider with a good sense of the clutch's friction zone.
- The Hayabusa's six-speed, close-ratio transmission was developed to match the engine's performance while improving durability and simplifying service.
- Oil jets in the crankcase spray lubricating oil on the fourth, fifth, and sixth gears to reduce friction, wear, and mechanical sounds during high-speed operation.
- The longer countershaft accommodates the new-generation SCAS-style clutch and uses longer needle bearings to increase durability. The clutch pushrod length updated to match the countershaft change.
- The gearshift cam, end plate and stopper design provide precise operation with the quick shift system while giving the rider a smooth and direct shift feel.
- To simplify service, a unique transmission retainer system is used in the crankcase.
- Developed for the Hayabusa, the unique and strong RK® GB50GSVZ4 drive chain has larger pins and rollers for reliable and quiet operation.

CHASSIS OVERVIEW

Building upon Suzuki's proven twin-spar aluminum frame architecture the Hayabusa's light chassis achieves a lower center-of-gravity and a 50:50 weight distribution ratio to help provide a stable ride with nimble handling characteristics. The suspension, wheels, and tires help keep the Hayabusa surefooted and composed on a variety of roads. The brake system is highlighted by the leading-edge Brembo® Stylema® four-piston front calipers with a pair of 320 mm diameter stainless-steel full-floating brake rotors. Like its predecessors, the new-generation Hayabusa continues to deliver a smooth and comfortable ride that absorbs everything the road surface throws at it and responds faithfully to the rider's commands.

CHASSIS

- The Hayabusa's twin-spar aluminum frame and swingarm incorporate aluminum castings along with extruded aluminum sections that provide the right amount of suppleness and strength to its overall rigid alloy frame structure.
- Weighing 1.5 pounds (0.680 grams) less than the prior generation's part, the redesigned sub-frame is made of longer rectangular steel tubing for ample weight-carrying capacity.
- The KYB® inverted cartridge fork has a specific internal structure to provide more compliance, further improving the suspension's ability to absorb shocks from the road, helping to ensure a smoother, more stable ride with optimum grip.
- The fork has spring preload plus rebound and compression damping force adjusters so the rider can tune the suspension response to their preference.
- The fork's 43mm inner tubes feature Diamond-Like Carbon (DLC) coating to reduce friction and improve reaction to small road surface irregularities.
- Like the fork, the internal structure of the KYB® rear shock absorber was designed to help optimize comfort and straight-line stability.
- The shock absorber has threaded spring preload adjustment collars plus rebound and compression damping force adjusters.
- A steering damper attached to the frame and the lower fork bracket provide damping force to suppress unwanted vibration and steering forces but are tuned to provide a light steering feel at lower speeds.
- Seven-spoke cast aluminum alloy wheels are used to help improve grip and feel to the rider while matching the Hayabusa's exciting styling.
- Co-developed by Suzuki and Bridgestone®, the Hayabusa is shod with Battlax Hypersport S22 tires in 120/70ZR17M/C (58W) front and 190/50ZR17M/C (73W) rear sizes.
- These Bridgestone® tires use a compound and construction to help improve grip on dry roads, performance in wet conditions, and help provide greater all-round agility. The S22 tires also provide excellent straight-line stability and braking grip, providing the rider a more exciting and confidence-building experience.
- The Hayabusa is equipped with the Combined Brake System, and the Motion Track Antilock Brake System (MT-ABS)**.
- When the rider squeezes the front lever the Combined Brake System will provide hydraulic brake pressure to both the front and rear brake calipers.
- The advanced MT-ABS unit has a lightweight, compact design. Antilock brakes can match stopping power to available traction.
- This MT-ABS unit combines IMU-measured, spatial information of the motorcycle's posture in conjunction with the front and rear wheel speeds. This allows the MT-ABS** to not only activate in a straight line but also when the vehicle is leaning or turning.
- See other brake system-related features in the Suzuki Intelligent Ride System (S.I.R.S.) section.
- The Hayabusa is equipped with the innovative Brembo® Stylema® front brake calipers. Featuring a light, compact, and carefully sculpted design that is intended for use on high-performance motorcycles, these calipers increase cooling airflow around the brake pads.
- The Stylema® front brake calipers are paired with a pair of 320 mm diameter stainless-steel full-floating discs.
- The solo rear 260mm brake rotor is grabbed by a single-piston brake caliper.
- The floating handlebar mount helps minimize vibration, while the upper clamp incorporates a distinctive Hayabusa logo.
- As compared to the prior generation Hayabusa, the handlebars are mounted 12mm closer to the rider, vastly improving comfort and reducing fatigue when touring while enhancing control.
- The rider footrests have damped mounting hardware to reduce vibration and are set in a sporty, yet comfortable relationship with the handlebars and seat. The heel guards incorporate replaceable plastic inserts that can be changed to renew their appearance.
- Both the shift and rear brake levers are easily adjustable to the rider's preference.
- The Hayabusa's black-anodized, adjustable clutch and front brake lever have carefully crafted shapes to aid rider control and feature slots at the ends to reduce the chance of wind pressure pushing the levers inward.
- The bodywork and sub frame were designed to bring the Hayabusa's seat height down to 31.5 inches.
- The rear seat is set higher than the front seat so the passenger can enjoy an unobstructed view past the rider's shoulder.
- Visually matching the Hayabusa's styling, the grab rail is reshaped and set in proximity to the rear seat, so it is easy for the passenger to grasp.
- The passenger seat and grab rail can be replaced by an optional color matched single seat cowl from Suzuki Genuine Accessories. The cowl acts as a lumbar stop for the rider during solo rides while adding to the Hayabusa's performance-related style.

BODY & STYLING OVERVIEW

The styling goal for the new-generation Hayabusa was to retain the cues that made this Ultimate Sportbike instantly recognizable and combine them with elements from the flying raptor whose stance screams of power, performance, poise, and keen perceptive abilities. This modernized styling visually forecasts the Hayabusa's riding experience. The stunning result is a tribute to the Japanese peregrine falcon from which the Hayabusa takes its name.

BODY & STYLING

- The styling of the bodywork intentionally conveys a modern image of advanced performance and effective features, while faithfully inheriting the wind-cutting silhouette and overall look for which the Hayabusa is famous.
- From every angle and in every detail, the Hayabusa's body has straighter, sharper lines that create a firm impression of modern appeal that is sure to turn heads.
 - These lines trace from the front fairing and fuel tank through to the tail section, projecting the aura of high quality and luxury.
 - These lines also sweep to the slim, upswept exhaust silencers. The silencers combine with the sharp tail design to further emphasize the Hayabusa's aggressive performance stance.
 - Adding cleanliness and flair to the Hayabusa's bold tail is a wide LED rear combination light (that incorporates running, brake, and turn signal functions).
- Beyond art, the bodywork was also developed by practical shaping during extensive wind tunnel developmental sessions, so the Hayabusa's advanced aerodynamics offer superb wind protection both for normal and completely tucked-in seating positions.
 - More than a styling exercise, the Hayabusa bodywork has a low drag coefficient, which helps raise comfort and performance.
 - The Hayabusa's vertically stacked headlight continues to be a bold styling feature that increases performance as its location between the large Suzuki Ram Air Direct (SRAD) intake ducts provides high-pressure air at speed that boosts engine power.
 - Flanking the SRAD ducts are LED position lights with integrated turn signals. They form a single clean vertical line that flows back along the cowl and eliminates the bulbous turn signal shape of the previous generation.
 - The V-shaped chrome-plated moldings in front of the air ducts on the side cowlings create a styling accent flowing from the engine to the mufflers that visually express the immense amount of power emanating from the engine but are also functional parts that draw wind away from the rider's legs.
 - Complementing the slippery styling is an aerodynamic windscreen that is shaped to reduce the wind blast to the rider while permitting an unobstructed view of the instrument cluster. A Suzuki Genuine Accessory windscreen that is 1.5 inches (38mm) taller is also available.
 - The black plastic accent pieces that extend from the sides of the upper cowl near the handlebars deflect air away from the rider's elbows and knuckles.
 - Streamlined mirrors have been positioned low and outward to provide an excellent rear view for the rider.
- The 2027 Hayabusa provides riders with two new colorways to choose from:
 - The premium paint colors for the Hayabusa are a powerful Glass Sparkle Black (YVB) and a stately Metallic Reflective Blue (QT8) finish.
 - The Hayabusa kanji and name logos have been styled to align with the bodywork's modern look. Both logos adopt highly stylized strokes, and the name logo features a long cross stroke on the "H" that emphasizes a sense of speed.
- Small, tasteful versions of the Hayabusa's Japanese logo are incorporated on the ignition key fob, within the LED headlight housing, at the front of the accessory seat cowl, and is visible as part of the start-up animation on the instrument cluster's TFT display.

ELECTRICAL & LIGHTING OVERVIEW

As the foundation of the S.I.R.S. suite of advanced rider aids, the Hayabusa's charging system, powerful ECM, and lightning-quick CAN-style wiring harness deliver reliable performance no other sportbike can match. Quality and innovation coexist in the Bosch® Inertial Measurement Unit (IMU) that instantaneously provides exact chassis position, movement, and acceleration that S.I.R.S. uses for optional engine and braking performance. Using its renowned analog gauge format, the instrument cluster provides a wealth of operational information through a TFT LCD center panel which includes a real-time accelerometer and lean angle display developed through Suzuki MotoGP Championship technology.

The Hayabusa's vertically stacked low beam and projector-type high beam headlights adopt LEDs that provide clear, bright illumination. Bright white LED position lights with integrated turn signals, a first on a Suzuki motorcycle, flank the outer edges of the large SRAD air intakes. At the tail, a bold LED taillight and rear turn signal assembly is smoothly incorporated into the Hayabusa's styling, so no ungainly stalks or signals protrude from its slippery bodywork.

ELECTRICAL & LIGHTING

- Riders adore the outstanding functionality and familiar layout of the Hayabusa's instantly recognizable instrument cluster. Continuing the tradition of blending analog gauges with digital LCD displays and LED icons, the Hayabusa's instrument cluster benefits from several carefully developed innovations and valuable features with styling to match the bike's modern appearance.
 - The large analog tachometer and speedometer have a fresh, modern appearance that includes larger and bolder numbering that improves readability. Raised scale markings around the periphery of each gauge use LED lighting to provide a clearer view and faster recognition in both daylight and night.
 - Carrying the theme of color accents throughout the cockpit area, the analog fuel and coolant temperature gauges that flank the speedometer and tachometer are ringed in gold, as are the SDMS-a and Active Data display screens on the Thin Film Transistor (TFT) and Liquid Crystal Display (LCD) panel.
- A key feature of the instrument cluster is the TFT LCD panel centrally mounted between the speedometer and tachometer. By using two display methodologies, the TFT LCD panel can display a variety of information in formats that are easily recognizable and attractive.
 - The TFT LCD panel displays either the current SDMS-α systems settings or an Active Data display that shows lean angle (with a peak-hold function), front and rear brake pressure, rate of vehicle acceleration or deceleration, and the current accelerator position.
 - The panel also shows the time, gear position, odometer, dual trip meter, ambient air temperature, instantaneous fuel consumption, riding range, trip time, average fuel consumption, and battery voltage displays.
 - LEDs located in the corners above and below the TFT LCD include the neutral indicator light, turn-signal indicator lights, high-beam indicator light, low oil pressure warning light, TC (Traction Control) indicator, MIL (Malfunction Indication Lamp), master warning indicator, and ABS indicator. There is also an LED engine coolant temperature indicator light in the upper right corner of the engine coolant temperature gauge and fuel indicator light in the upper left corner of the fuel meter gauge.
 - An additional feature of the LCD panel is a brief animation of the Hayabusa kanji character that plays when the ignition key is turned on. This playful presentation is pleasing to the eye and heightens the anticipation of the ride to come. A second animation featuring the Suzuki logo plays before the display is turned off.
- An ambient light sensor automatically adjusts the instrument cluster's brightness level based on surrounding conditions, but the rider can manually adjust the illumination to their preference.
- The handlebar switches were designed to maximize operating ease and efficiency. The mode/set switch on the left handlebar controls various Suzuki Intelligent Ride System (S.I.R.S.) settings and adjustments, including cruise control operation.
 - The rider can use the instrument cluster information and the rocker switch on the left handlebar control to change the TFT LCD display and S.I.R.S. settings.
 - The right handlebar switch has a poly-function rocker switch that is the engine stop and start button that activates the Easy Start System. A single button below the rocker switch engages the cruise control.
- A powerful dual-core 32-bit ECM provides state-of-the-art engine management that contributes to the operation and optimization of the Hayabusa's electrical and S.I.R.S. components.
- Key to the operation of Hayabusa's S.I.R.S. and other electrical features is a Computer Area Network (CAN) style wire harness that functions as an interconnected information network rather than using a more complex and slower conventional wiring harness.
 - The robust CAN-wiring system enables the motorcycle's various sensors and microcontrollers to instantaneously communicate with each other.
 - Because it requires fewer wires, this CAN-wiring lets the vehicle be lighter and simpler and provides a way for the advanced components – such as the electronic throttle bodies and cruise control – on the motorcycle to have faster data transmission with the ECM.
 - The CAN-wiring also provides a specific location for diagnosing errors that may occur throughout the entire network.

ELECTRICAL & LIGHTING CONT.

- The Hayabusa is supplied with a lightweight high-capacity, ELIY Power® lithium-ion battery, which offers clear advantages over conventional lead-acid batteries.
 - This lithium-ion battery delivers higher-cranking capability for enhanced starting performance.
 - This smaller lithium-ion battery weighs 2.6 lbs. (1.2 kg) while the prior Hayabusa Maintenance-free style battery weighed 8.8 lbs. (4.0 kg) – a savings of 6.2 lbs. (2.8 kg).
 - Designed to operate across a wide thermal range, this battery can reliably start the engine at temperatures from 14° to 149°F (-10° to 65°C) and maintain efficient operation under continued 14°F (-10°C) conditions.
 - With an expected lifespan of up to 10 years, this lithium-ion battery will deliver consistent output and high-rate performance throughout its service life.
 - Equipped with a Battery Management System (BMS), this battery holds reserve voltage acting like an internal jump-start system.
 - The battery also has a replaceable 125A fuse to protect the battery and BMS from damage caused by a short circuit or jump-starting from another battery (not recommended).
 - Consult your Suzuki dealer to make sure you have or obtain a battery charger that will properly charge the lithium-ion battery. Your dealer can order this type of charger from Suzuki.
- The 400W charging system uses a durable, oil-cooled three-phase stator and a regulator/rectifier specifically designed to properly charge a lithium-ion battery.
- Another component supporting S.I.R.S. and other Hayabusa technology is a six-direction, three-axis Inertial Measurement Unit (IMU) supplied by Bosch®.
 - The Hayabusa's IMU measures six directions of movement along three axes. The IMU detects pitch, roll, and yaw movement based on the motorcycle's position, movement, and acceleration.
 - This high-performance six-direction IMU also combines a three-axis angular rate sensor (gyro meter) and a three-axis acceleration sensor in a single compact unit.
- The Hayabusa is equipped with the latest generation, compact Antilock Brake System (ABS) unit from Bosch®. Working in conjunction with the IMU, the ABS-unit realizes features such as the Motion Track Brake System, Slope Dependent Control System and Hill Hold Control System.
- Befitting its premium sportbike status, the Hayabusa is equipped with highly functional and attractive lighting. The stacked headlight format that debuted with the original Hayabusa continues in this 2027 edition with advanced technology and modern styling.
 - Both the low-beam and projector-type high-beam headlights use bright LEDs that provide clear illumination and help make the Hayabusa visible to pedestrians and other traffic at night.
 - Attention to achieving a memorable look extends to every detail. The two upper and two lower LEDs for the low beam are mounted in the corners where they shine across a reflector panel and fill the light assembly with attractive illumination. Fine touches throughout the headlight assembly include the use of black parts that heighten the sharp looks, as well as the inclusion of the Hayabusa kanji character on top of the black cowl above the high beam lamp.
- Hayabusa's front turn signals are incorporated in the position lights, a first for a Suzuki motorcycle.
 - This design integrates the LED position lights and turn signals into single assemblies that neatly flank the outer edges of the large SRAD air intakes.
 - An illumination scheme using white lighting for the position light with the turn signals flashing in orange when signaling creates a unique overall effect that heightens the sense of a luxurious riding experience.
- The bold LED taillight and rear turn signal design create a single wide, sharp accent running horizontally across the bottom of the Hayabusa's tail section.
 - Each of the left and right combination lamps houses the tail/brake light and turn signals, with a clear lens over the taillight and a clear smoked amber lens over the turn signal portion.

SUZUKI INTELLIGENT RIDE SYSTEM (S.I.R.S.) OVERVIEW

The Hayabusa is supplied with an advanced version of the Suzuki Intelligent Ride System (S.I.R.S.), a comprehensive collection of electronic systems designed to optimize performance characteristics to match the needs of the moment, making the motorcycle more controllable and predictable.

S.I.R.S. provides the rider control of the Hayabusa performance characteristics in six distinct areas:

1. **Control of the engine output characteristics**
2. **Control over engine acceleration characteristics**
3. **Control over engine deceleration (engine braking) characteristics**
4. **Control over the engine at steady speeds**
5. **Control over engine and transmission operation**
6. **Control over braking features**

Riders may opt for settings that best suit riding conditions and varying road surfaces, as well as their level of confidence and experience. They may benefit from the response those settings offer and take advantage of the feedback to further hone their riding skills and gain greater confidence as they enjoy the ultimate riding experience.

SUZUKI INTELLIGENT RIDE SYSTEM (S.I.R.S.)

1. Control of the Engine Output Characteristics

- The **Suzuki Drive Mode Selector Alpha** (SDMS- α) system provides the rider a choice of three factory preset and three rider (or user) defined and combined settings of the Power Mode Selector, Motion Track Traction Control, Anti-lift Control, Engine Brake Control and Bi-directional Quick Shift systems.
 - These presets provide the rider with a quick and effortless way to set the Hayabusa's performance characteristic to their liking.
 - Three factory preset modes (A, B, and C) have been carefully created so the SDMS- α can set S.I.R.S. for optimal performance.
 - Factory preset mode A is for active, sporty use.
 - Factory preset mode B is for general, all-around riding.
 - Factory preset mode C is for comfort and touring.
 - The rider can create three user-defined settings (U1, U2, and U3). These unique settings allow the rider to tune S.I.R.S. to their riding style or to their favorite road. It is then a quick and straightforward process for the rider to set the S.I.R.S. to use those settings.
 - Using the mode and select switches on the left handlebar the rider can change modes and settings that are then displayed on the TFT LCD panel located at the center of the instrument cluster.
- The **Power Mode Selector** (PW) permits selection between three different engine output characteristic modes to match the riding conditions or the rider's preference.
 - Mode 1 provides the sharpest throttle response up to maximum engine power.
 - This characteristic would be well suited for use by experienced riders riding in good road conditions.
 - Mode 2 provides a softer throttle response with a more linear power delivery up to maximum engine power.
 - This characteristic would be well suited for use by most riders riding on average road conditions.
 - Mode 3 provides the softest throttle response with a gentler power curve with reduced maximum output.
 - This characteristic would be well suited for riders with less experience or by all riders riding in poor road conditions (wet or dirty surface with limited traction).

SUZUKI INTELLIGENT RIDE SYSTEM CONT.

2. Control of the Engine Acceleration Characteristics

- The **Motion Track Traction Control System (TC)** was designed to provide stability and help enable the rider to control the Hayabusa with confidence in varying riding conditions by limiting rear wheel spin.
 - Adopted directly from the traction control system Suzuki developed for MotoGP racing, the Hayabusa's TC system features smooth control that does not interfere when enjoying a more aggressive, sporty ride.
 - The TC system offers ten mode settings and can also be switched off. The higher the mode number the more the system is sensitive to rear wheel spin and the faster it will intervene, limiting wheel spin.
 - The ECM continually monitors front and rear wheel speed, engine RPM, plus throttle position and gear position, and lean angle data from the IMU. When the system determines that loss of traction is imminent, the ECM adjusts engine power to prevent wheel spin.
 - The TC modes are displayed on the TFT LCD display and can be changed on-the-fly using the left handlebar switch. When the system is trimming power to prevent wheel spin, the TC icon in the center of the instrument cluster will illuminate and flash.
- The **Anti-lift Control System (LF)** adds control reassurance to riders by helping minimize front wheel lift during strong acceleration.
 - The rider can choose from ten modes or turn the system off. The higher the setting, the greater the amount of front wheel lift control is supplied.
 - Hayabusa's dual-core 32-bit ECM processes data such as engine speed, throttle position, gear position, clutch switch, and front and rear wheel speed sensors, as well as the IMU, to determine the appropriate amount of engine output to deliver in response to the rider operating the throttle and the LF system mode setting.
 - The LF mode settings are displayed on the TFT LCD display and can be changed using the left handlebar switch.
- The **Launch Control System (LC)** helps ensure efficient launch and acceleration from a standing start. Launch Control for the Hayabusa offers three modes from which the rider can choose to match his or her level of experience or confidence.
 - The LC Mode 1 and 3 maximum engine speeds were recently updated for the Hayabusa. This change helps make the system more effective.
 - LC Mode 1 limits engine speed on launch to 5,000 RPM for smooth, softer acceleration from a stop (was limited to 4,000 RPM on the prior year model).
 - LC Mode 2 lets the engine rev to 6,000 RPM for a moderate, stronger acceleration characteristic from a stop (no change from prior year model).
 - LC Mode 3 limits the engine speed to 7,000 RPM for the strongest and quickest acceleration from a stop (was limited to 8,000 RPM on the prior year model).
 - The LC mode settings are displayed on the TFT LCD display and can be changed using the left handlebar switch.

3. Control of the Engine Deceleration Characteristics

- The **Engine Brake Control System (EB)** is a three mode (and OFF setting) system that provides control over the effective strength of engine braking to match the rider's preference.
 - The higher the setting, the more the system monitors engine braking to help reduce rear tire sliding or skipping when decelerating after releasing the throttle grip or downshifting.
 - The rider can also switch EB off to experience the full effect of the engine braking during deceleration.
 - The EB mode settings are displayed on the TFT LCD display and can be changed using the left handlebar switch.

SUZUKI INTELLIGENT RIDE SYSTEM CONT.

4. Control over the Engine at Steady Speeds

- The Hayabusa's **Smart Cruise Control** is a convenient system that allows the rider to maintain a set speed without operating the throttle. The Smart Cruise Control permits the rider to shift up or down using the Bi-directional Quick Shift System without canceling the cruise control.
- The ability to shift the transmission without interrupting the cruise control helps make the Hayabusa more comfortable, more convenient, and easier to operate on long rides by eliminating the need to reset cruise control after each shift.
 - Cruising speed can be set above 20 MPH (31 km/h) with an engine speed of 2,000 to 7,000 RPM in second gear or higher.
 - The cruise speed setting appears on the TFT LCD display and a button on the right handlebar control can be pressed to activate or put the cruise control into standby.
 - Once engaged, the cruising speed can be easily adjusted upward or downward using the (UP or DOWN) select switch on the left handlebar.
 - The handy "resume function" re-engages the system to smoothly accelerate to the most recent speed setting after canceling.
- Suzuki's **Active Speed Limiter** is a highly practical system that allows the rider to set a speed limit the bike will not exceed, helping riders easily maintain the chosen speed.
 - With the Active Speed Limiter engaged, the rider can accelerate freely up to the preset speed, but not exceed it. The rider can decelerate normally by backing off the throttle.
 - The system can be temporarily overridden with one quick twist of the throttle, making it easy to accelerate beyond the set limit to pass other vehicles. It can be deactivated completely at the press of a button after releasing the throttle grip.

5. Control over Engine Operations

- The dual mode **Bi-directional Quick Shift System (QS)** allows the rider to shift up or down quickly and easily, without operating the clutch or changing throttle position. To ensure smooth upshifts QS adjust ignition timing when accelerating or riding at a steady speed. When decelerating, QS adjusts throttle settings, automatically blipping the throttle when downshifting.
 - QS Mode 1 reacts quickly to the rider moving the shift lever to replicate a racing-style response.
 - QS Mode 2 offers a lighter reaction to the rider's shift that is well suited for casual riding.
 - Performance of the Hayabusa's SACS-style assist & slipper clutch ensures even smoother up and down shifts when using QS or manual clutch operation.
- The **Suzuki Easy Start System** lets the rider start the motorcycle with a momentary press of the starter button. There is no need to pull in the clutch lever when the transmission is in neutral, and the starter motor automatically disengages the instant the engine fires up.
- The **Low RPM Assist System** seamlessly increases engine speed to smooth the power delivery when launching from a standing start or riding at low speeds to help ensure better control and operation in stop-and-go traffic. The system also minimizes the possibility of the rider stalling the motorcycle during take-off.

SUZUKI INTELLIGENT RIDE SYSTEM CONT.

6. Control over Braking features

- The **Combined Brake System** provides convenience to the Hayabusa rider as operating the front brake lever provides braking power to both the front and rear brakes.
 - Using the brake pedal (with the right foot) operates the rear brake only.
- The Motion Track Anti-lock Brake System (MT-ABS) combines IMU-measured, spatial information of the Hayabusa's posture in conjunction with front and rear wheel speeds. This allows the ABS** to not only activate in a straight line but also when the vehicle is leaning or turning.
 - By reducing the impact of sudden braking force, the Hayabusa is less likely to lose traction, instead maintaining chassis composure with a more settled feel, thereby supporting the rider's chosen path.
 - Even if the rider is startled and brakes heavily in a corner, MT-ABS assists in helping maintain chassis composure while stopping or slowing the motorcycle.
 - The MT-ABS system cannot be switched off – it is always active.
- The **Slope Dependent Control System** prevents rear wheel lift when braking when travelling downhill. The ABS unit continually measures brake pressure while the IMU constantly monitors vehicle posture even as the Hayabusa is traveling downhill. When the rider operates a brake lever or pedal when riding downhill, the electronic control unit adjusts brake pressure to prevent rear wheel lift, providing more consistent braking.
- The **Hill Hold Control System** helps hold the Hayabusa when it is stopped on an incline, providing confidence so riders can focus on smoother takeoffs up the hill.
 - When stopping upward on a hill and applying the brakes, this system automatically operates the rear brake for around 30 seconds to help prevent the motorcycle from rolling back down the hill even if the rider releases the brake lever or pedal.
 - When the rider releases the brake lever or foot pedal, the ECM detects the rider's intention to ride forward and releases the rear brake pressure smoothly.
 - The rider can also disengage the Hill Hold System by squeezing the front brake lever twice or use the left handlebar control and the instrument cluster with the system off.
 - An "H" mark lights on the instrument cluster when the system is engaged, and flashes when the system is disengaged.

SUZUKI GENUINE ACCESSORIES

- The Hayabusa is the world's Ultimate Sportbike with premium components, styling, and unmatched performance so it is fitting that a wide selection of Suzuki Genuine Accessories are available so the rider can personalize their motorcycle to their tastes and riding style.
- An optional, color matched single seat cowlings delivers function and great styling by continuing the wind cheating shape of the Hayabusa.
- A taller touring windscreen is available for reduced wind blast to the rider on longer rides.
- Riders can take the personal items easily with them both on and off the bike thanks to Suzuki fuel filler-mount tank bags that clip on and off in seconds.
- A special rider's seat is also available with different foam for comfort while a different texture and colored cover enhances appearance.
- Multi-level heated grips help deliver comfort during colder rides (and are specially designed to function with the Hayabusa's CAN-style wire harness).
- Hayabusa and Suzuki logo decals can add a splash of color and an impression of speed to the wheel rims.
- Billet brake and clutch hand levers stylized, and strong aluminum chain adjuster block and front axle sliders blend a performance look and real function.
- For more information on Suzuki Genuine Accessories, visit Suzuki's online Accessory Store.

ADDITIONAL INFO

- A variety of Genuine Suzuki Accessories for Hayabusa owners are available, including a color-matched solo seat cowl and a wide selection of Suzuki and Hayabusa logo apparel.
- The Hayabusa's premium build-quality is backed by Suzuki's 12-month unlimited mileage limited warranty. Longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).
 - Please refer to the limited warranty policy and your Suzuki dealer for more information about coverage, limitations, and terms.
 - Your Suzuki dealer can also answer your questions about SEP coverage and terms.

- For more details, please visit www.suzukicycles.com.

* The Traction Control System is not a substitute for the rider's throttle control. It cannot prevent loss of traction due to excessive speed when the rider enters a turn and/or applies the brakes. Traction control cannot prevent the front wheel from losing grip.

** Depending on road surface conditions, such as wet, loose, or uneven roads, braking distance for an ABS-equipped vehicle may be longer than for a vehicle not equipped with ABS. ABS cannot prevent wheel skidding caused by braking while cornering. Please drive carefully and do not overly rely on ABS.

SPECIFICATIONS

ENGINE

Engine:	1340cc, 4-stroke, liquid-cooled, 4-cylinder, DOHC
Bore x Stroke:	81.0 mm x 65.0 mm (3.19 in. x 2.56 in.)
Compression Ratio:	12.5:1
Fuel System:	Fuel injection with Ride-by-Wire electronic throttle bodies
Starter:	Electric
Lubrication:	Wet sump

DRIVETRAIN

Clutch:	Wet, multi-plate type, SCAS-equipped
Transmission:	6-speed constant mesh
Final Drive:	Drive chain, RK® GB50GSVZ5, 114L

CHASSIS

Suspension, Front:	Inverted telescopic, coil spring, oil damped
Suspension, Rear:	Link type, single shock, coil spring, oil damped
Brake, Front:	Brembo Stylema®, 4-piston, twin disc, ABS-equipped
Brake, Rear:	Nissin®, 1-piston, single disc, ABS-equipped
Tire, Front:	120/70ZR17M/C (58W), tubeless
Tire, Rear:	190/50ZR17M/C (73W), tubeless
Fuel Tank Capacity:	5.3 US gal. (20.0 L)

ELECTRICAL

Ignition:	Electronic ignition (transistorized)
Spark Plugs:	NGK® CR9EIA-9 (or DENSO® IU27D)
Headlight:	Multi-plane and projector LED
Tail Light:	LED
Turn Signals:	Integrated LED

DIMENSIONS

Overall Length:	2180 mm (85.8 in.)
Overall Width:	735 mm (28.9 in.)
Overall Height:	1165 mm (45.9 in.)
Wheelbase:	1480 mm (58.3 in.)
Ground Clearance:	125 mm (4.9 in.)
Seat Height:	800 mm (31.5 in.)
Curb Weight:	264 kg (582 lb.)

WARRANTY

Warranty:	12-month unlimited mileage limited warranty Longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).
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