

SV650

The smart design simplicity and distinctive form of the SV650 is right at home on all roads - whether it's in a sprawling modern city or out in the suburban countryside. Engineered for all riders, this motorcycle delivers an unforgettable experience with every ride you take, both now and a long way down the road. Take the keys, then take command of the excitement.

V-Twin Fun and Excitement



Key Features

The 645cm³ liquid-cooled, 4-stroke, DOHC, 90-degree, V-twin engine boasts primary balance characteristics that minimize vibration, so it pulls smoothly from idle right through to the 10,000 rpm redline.

Visually stunning and constructed of high-strength steel tubes, the trellis-style frame it contributes to the motorcycle's low weight and trim chassis.

The trim bodywork is aesthetically pleasing while aiding comfort and maneuverability.

The fuel tank features an ample 14.5L fuel capacity to extend range, despite the stylish looks of its short and narrow design.

The muffler and its brushed stainless steel cover are positioned to permit ample lean angles when cornering.

Dual 4-piston Tokico brake calipers up front grasp a pair of 290mm fully floating stainless steel rotors for great stopping performance.

The SV650 is also available with a compact Antilock Brake System (ABS)**.

The SV650's multifunction LCD instrument panel packs a wide range of useful information into a compact design, with readouts that are easy to recognize.

The advanced electronic fuel system includes Suzuki's Low RPM Assist feature that seamlessly adjusts engine speed when pulling away from a standing start or running at low speeds to smooth the power delivery and help

reduce the possibility of the rider stalling the motorcycle.

Suzuki's Easy Start System lets you start the SV650 with one quick press of the start switch, and without pulling in the clutch lever when in neutral.

Engine Features

The class-exclusive* 645cm³ DOHC V-twin engine produces strong, torque-rich horsepower while complying with the latest emission standards.

The primary balance of the engine's 90-degree L-twin configuration minimizes vibration so well, the engine doesn't require a heavy, power-robbing balance shaft.

The energy-efficient engine has unique pistons that were engineered with the use of Finite Element Method (FEM) analysis to achieve optimal rigidity and weight.

Each piston skirt has a special resin coating, and the other sliding parts are tinned for less friction and greater durability – a first for a Suzuki motorcycle.

Suzuki's innovative L-shaped piston rings contribute to reduced blow-by gas, resulting in fewer emissions and greater combustion efficiency.

Suzuki Composite Electrochemical Material (SCEM)-coated cylinders reduce friction and improve heat transfer and durability.

Both cylinder heads feature Suzuki's original Dual Spark Technology for greater combustion efficiency, better fuel economy, and cleaner emission.

The fuel-injection system employs the innovative Suzuki Dual Throttle Valve (SDTV) with 39mm throttle bodies. The secondary throttle valves are controlled by servo motor for smooth power delivery and optimum combustion efficiency.

The 10-hole, long-nose-type fuel injectors on each throttle body improve fuel atomization for better combustion efficiency and while reducing fuel consumption.

The electronic fuel injection system employs O₂ feedback and a precise intake pressure sensor for optimum combustion efficiency in various conditions to reduce emissions to an incredibly low level.

Suzuki's patented Throttle-body Integrated Idle Speed Control (TI-ISC) eases starting, stabilizes the engine idle speed, and helps lower emissions. The system is compact and lightweight.

TI-ISC helps Suzuki's Low RPM Assist feature seamlessly adjust engine speed during standing starts and low-speed running to smooth the power delivery and to help reduce the possibility of the rider stalling the motorcycle.

The Engine Control Module (ECM) provides state-of-the-art engine management and has enhanced settings to suit the intake and exhaust systems, resulting in better fuel economy and linear throttle response.

Advanced, transistorized ignition control programming helps maintain more precise spark timing to the four iridium, long-life spark plugs.

The SV650 also features Suzuki's Easy Start System that lets the

rider start the motorcycle with a momentary press of the start switch without pulling in the clutch lever when the transmission is in neutral.

The air cleaner case design has high capacity and routes crankcase breather gas from the engine cover to help increase engine power. The air intake funnels have staggered lengths to heighten mid-range torque.

The exhaust system has a clean, functional appearance and is light in weight. The 2-into-1 system employs a catalytic converter to further reduce emissions.

The location of the muffler and its brushed stainless steel cover allow ample lean angles when cornering.

The high-efficiency radiator employs a large cooling fan for exceptional cooling capacity. To further control temperature, the engine is also fitted with a coolant-cooled oil cooler that is compact and lightweight.

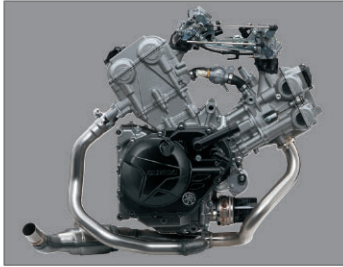
The close-ratio, 6-speed transmission features carefully selected ratios that are equally well-suited for commuting or spirited riding.

The multiplate clutch has precise push rod actuation of the pressure plate for a light pull and consistent release point.

* 600-800cm³, street bike class.

Chassis Features

The compact, lightweight chassis is covered with slim bodywork to create a bike that's agile and fun to ride on a variety of streets – such as city traffic, highway, rural



645cm³ liquid-cooled, DOHC 90-degree V-Twin engine



14.5-litre capacity fuel tank



Multi-Function, Full LCD Instrument Cluster



Suzuki Easy Start System

roads, and winding roads.

Its remarkably light ready-to-ride weight of just 200kg* makes the Euro 5-compliant SV650 ABS's nimble handling and maneuverability a sheer delight for the rider.

* The non-ABS model weighs 196kg.

The high-strength steel, trellis-style frame is key to the motorcycle's trim and intelligent dimensions. At just 785mm, the seat height is the lowest in the 600-800cm³ street bike class.

The SV650's fuel tank is short and narrow but still offers a 14.5L fuel capacity.

The slim fuel tank and seat joint aid the rider in touching the ground more easily at stops.

The frame is mated to a steel, beam-type swingarm with a straightforward chain tension adjuster system.

The 41mm conventional-style front forks offer a generous 125mm of wheel travel to provide a sporty but plush ride.

The link-type rear shock unit has a 63mm stroke and is tuned for a superb progressive feel and to react efficiently to varied road conditions while still delivering an agile and stable ride.

The rear shock's seven-way adjustable spring pre-load is easy to adjust for carrying a passenger or cargo.

The front brakes feature a pair of fully floating 290mm discs that are grasped by 4-piston Tokico calipers for excellent braking performance. The compact

Antilock Braking System (ABS)** ensures braking power matches available traction*.

* Only for ABS model.

5-spoke, cast aluminum alloy wheels are shod with lightweight, front and rear Dunlop radial tires for sharp handling and good mileage.

The Dunlop SPORTMAX ROADSMART III tires fitted to the SV650 have great grip and all-around good tire performance.

The compact and lightweight instrument panel is a full LCD display, eliminating motor and needle mechanics.

The instrument panel has several features, including a tachometer, speedometer, odometer, dual trip meter, reserve trip meter, clock, coolant temperature/oil pressure indicator, ABS alert*, and gear position indicator, plus fuel consumption and driving range data.

* Only for ABS model.

Well-proportioned, tubular handlebars and mid-set foot controls create a sporting, yet ergonomically relaxed riding position.

The tastefully designed, round-shaped headlight is a multi-reflector type with a bright 12V 60/55-watt halogen bulb.

Lighting also includes a bright, durable LED combination tail and brake light, plus front and rear amber-tinted turn signals.

Attention to rider comfort and confidence includes a carefully shaped seat with a high-grip cover and integrated cargo retention

loops that can pull out from under the seat.

The styling was conceived to express a slim, lightweight design and to showcase the strength of V-twin engine. The clean, neatly shaped body lines aim to appeal to a wide range of riders.

** ABS is not designed to shorten the braking distance. ABS cannot prevent wheel skidding caused by braking while cornering. Please ride carefully and do not overly rely on ABS.

Additional Features

A variety of Genuine Suzuki Accessories for SV owners are available, including a large selection of Suzuki logo apparel.



Riding Pleasure Unlimited

Simplicity Means Freedom To Make It Yours



Colors



Metallic Reflective Blue (QT8)



Glass Sparkle Black / Solid Iron Gray (BTH)



Glass Sparkle Black (YVB)



SCEM

