

# SV650/A





ULTIMATE FUN  
AND  
EXCITEMENT



What started in 1999 as a motorcycle built to deliver “V-Twin fun”, the Suzuki SV650 quickly became a rider’s phenomenon around the world. Not only was this universal motorcycle well-suited for urban roads but it was right at home on the racetrack too. Raising the “V-twin fun machine” performance even higher with latest Suzuki innovations, the SV650’s newest version now sets a higher standard. The new SV650 is a rider’s go-anywhere dream machine.



MORE THAN JUST  
AN EASY RIDE



The “SV” designation in the SV650 stands for many things: Sporty V-twin, Superior Value, Simple and Versatile. Yet, it quite simply is a concept that you actually experience rather than try to define. Loaded with capabilities and exuding personality, your daily commutes or weekend excursions on winding roads are an unforgettable ride. The SV650’s light weight and ultra-slim profile give you the confidence to take to the road.





# 195kg\*

## Light Weight

With a remarkable weight of only 195kg\*, the SV650 makes manoeuvring and handling a sheer joy. The benefits of making the motorcycle lightweight are multi-fold – more responsive acceleration, nimble handling and greater confidence in manoeuvring. Riders of all levels can take to the city or winding roads and experience unrestricted fun.

\* ABS equipped model is 197kg

## Slim Body

Achieving a slim body isn't only about the motorcycle's seat height. The SV650's streamlined profile is the result of ergonomically shaped side covers and optimised seat design, which let you straddle the motorcycle with your feet on the ground comfortably while stopped and easily lean into and manage corners while riding.

## Truss pipe frame

The truss is constructed of lightweight steel material that allows an overall slimmed down appearance while proudly emphasising the beauty of the robust V-twin engine.





# V-TWIN POWER FOR THE STREET

Suzuki's V-twin engine's calibrated irregular firing intervals create a unique heartbeat-like sound and linear power delivery. The engine has broad range of potential. In local club racing V-twin cup, the starting grid is still filled with SV650's. While it has such a great potential, the motorcycle easily fit in the city riding conditions. Combine this power plant with the SV650's slim design and lightweight body, and you have a ride experience that can amplify seemingly endless potential.

# Dual Spark 90° V-Twin

The Suzuki V-twin engine is a marvel of engineering and superb versatility. While at lower RPMs, this engine delivers powerful torque that's easy to handle and a deep robust sound. Open the throttle to mid-range, and the power of the engine responds linearly and smoothly, yet always under your control. Finally at higher RPMs, the V-twin cruises with performance ready to go, even at higher gears. The V-twin meets the latest EURO4 emissions regulations while achieving class-leading fuel economy (3.84L / 100km [26.05km / L]\* ) and higher maximum output.

\*In WMTC mode measured by SUZUKI



## SCEM

The aluminium die-cast cylinder adopts the patented Suzuki Composite Electrochemical Material (SCEM) chrome-plated cylinder, which provides high heat dissipation properties and resistance to wear. The hard exterior coat makes it possible to efficiently dissipate high heat while reducing friction, and achieve a consistent wear resistant seal on the piston rings.

## Dual Spark Technology

Suzuki's Dual Spark Technology utilises two spark plugs per cylinder for precision ignition. The result is increased combustion efficiency, smoother power delivery, lower fuel consumption and lower emissions.



## Newly designed pistons & rings

In order to further improve overall fuel efficiency and emissions control, the V-twin engine adopts two new innovations: resin coating on the piston skirt for minimised friction between the cylinder and piston, and a special L-shaped piston ring for enhanced seal performance and blow-by gas reduction.



## SDTV Fuel injection

The SV650 features Suzuki's performance-proven Dual Throttle Valve fuel-injection system, which includes dual butterfly valves per cylinder for enhanced power output efficiency. Combined with the ten-hole fuel injectors, fuel-combustion efficiency is further optimised as well as smoother power delivery and fuel economy. Furthermore, the system includes a thinner and lighter 39mm throttle body with a built-in ISC (Idle Speed Control), providing even more idling stability and environmental performance.



## Low RPM Assist

New technology is featured on the new SV650, TI-ISC has the Low RPM Assist control function. In the launching operation or low rpm riding conditions, ECM activates ISC system. By opening the ISC circuits, engine rpm slightly raises. Normally in launching the motorcycle, engine rpm drops when the clutch is engaged. This general behavior causes engine stall. The Low RPM Assist helps rider for smoother launching operation in low rpm range. It also makes easy to ride at low speed in stop and go traffic.





## Head Light

The round multi-reflector headlight is designed to distribute maximum amount of light to increase both rider and on-the-road safety. The refined design also makes the mounting harness invisible.



## Fuel Tank

Despite its large 13-litre capacity, the fuel tank is slim yet sports an ergonomic form that is never cumbersome. Available in white, red, blue and black, with sporty racing stripes on the top of the tank.



## Narrow Seat

The narrow, stream-lined seat is measures only 785mm and is designed nearly flat from front to back, yet gives riders a superior degree of visibility and grip in the upright position, especially from the front side where good foothold is essential. In addition, a luggage loop is available for securing on cargo.



## LED Tail & Stop Lights

An integrated twin-LED tail light and brake light configuration is compact yet slim. High-performance LEDs contribute to deliver excellent visibility and high durability, and makes for a sharp, sleek rear section.



## Exhaust System

The SV650's advanced exhaust system has been redesigned to be lighter and more compact, while conforming to EURO4 emissions standards and delivering excellent power.



The more you ride the SV650, the more you'll love it. Its smart design simplicity, distinctive form and functionality combine to make this motorcycle a centrepiece of attraction, wherever you go.

# FEATURES FOR YOUR FUN AND EXCITEMENT



## Full LCD Instrument Panel

A multifunction LCD instrument panel displays gear position, digital speedometer, tachometer, as well as indicators for odometer, trip meter, average/instantaneous fuel consumption, driving range, clock, water temperature gauge and fuel gauge. Backlight is adjustable in six levels of brightness and can be set to your preference.



## Suzuki Easy Start System

The Suzuki Easy Start System engages the starter motor at a precisely timed preset interval to start the motorcycle with just a push of a button. A computerised ECM checks the status and disengages the starter motor immediately after start.



## Brakes & ABS

Large 290mm dual front disc brakes with ABS and 240mm rear brake disc provide incredible stopping performance and control. Compact and lightweight, the SV650 introduces state-of-the-art ABS technology manufactured by Nissin, thus making it possible to further reduce vehicle weight without sacrificing performance. ABS control unit monitors wheel revolutions at 50 times per revolution and uses over 100 separate sensor data criteria in order to deliver a high degree of braking and stabilisation control. Stopping distance performance is maintained relatively the same across various road conditions.

\*Note1: 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. Note2: ABS is equipped only with SV650A.



## Suspension

The front suspension system employs durable 41mm telescopic front forks, while the rear features a link-type suspension. Together, the SV650's suspension system ensures consistent ride-ability and sporty handling performance.



## Five-spoke Aluminium Wheels With Radial Tyres

The five-spoke cast aluminium wheels create a sporty look. For excellent balance of cornering performance and straight-line speed stability, the SV650 uses the Dunlop radial sport 120/70ZR17M/C for the front and 160/60ZR17M/C for the rear.



# Simplicity Means Freedom To Make It Yours

Thanks to its simple base design, a wide range of accessories are available for the SV650 - everything from those that add functional convenience to exterior parts that impact the look and impression.



Note1) The shown accessory prototypes gives you an impression how your Motorcycle can look like.

Note2) SUZUKI MOTOR CORPORATION reserves the right to add any improvement to change the design or to discontinue any Suzuki Genuine Accessories at any time without notice.

Some Suzuki Genuine Accessories might not be compatible with local standards or statutory requirements. Please check with your local AUTHORIZED SUZUKI DEALER for details at the time of ordering.

**RIDING  
PLEASURE  
UNLIMITED**



The simple base design of the SV650 is right at home on all roads – whether it's a sprawling modern city or the suburban country side. Engineered to all riders, this motorcycle delivers an unforgettable experience with every ride you take now and a long way down the road. Take the keys, then take command of the excitement.

## Color Variations



Pearl Glacier White (YWW)



Metallic Triton Blue (YSF)



Metallic Mat Black No.2 (YKV)



Pearl Mira Red (YVZ)



## Specifications

Overall length	2,140 mm (84.3 in)
Overall width	760 mm (29.9 in)
Overall height	1,090 mm (42.9 in)
Wheelbase	1,445 mm (56.9 in)
Ground clearance	135 mm (5.3 in)
Seat height	785 mm (30.9 in)
Curb mass	SV650 195 kg (430 lbs)
	SV650A 197 kg (434 lbs)
Engine type	4-stroke, 2-cylinder, liquid-cooled, DOHC, 90° V-Twin
Bore × Stroke	81.0 mm × 62.6 mm (3.2 in × 2.5 in)

Displacement	645 cm <sup>3</sup> (39.4 cu.in)
Compression ratio	11.2 : 1
Fuel system	Fuel injection
Starter system	Electric
Lubrication system	Wet sump
Transmission	6-speed constant mesh
Primary drive ratio	2.088 (71 / 34)
Final drive ratio	3.066 (46 / 15)
Suspension	Front Telescopic, coil spring, oil damped
	Rear Link type, coil spring, oil damped, spring preload adjustable

Rake / Trail	25.0° / 104 mm (4.1 in)	
Brake	Front	Disc, twin
	Rear	Disc
Tyres	Front	120/70ZR17M/C (58W), tubeless
	Rear	160/60ZR17M/C (69W), tubeless
Ignition system	Electronic ignition (Transistorized)	
Fuel tank	13.8 L (3.6 US gal)	
	14.5 L (3.8 US gal) <North American spec>	
Oil capacity (Overhaul)	3.0 L (0.8 US gal)	

Specifications, appearances, color (including body color), equipment, materials and other aspects of the SUZUKI products shown in this catalog are subject to change by Suzuki at any time without notice and they may vary depending on local conditions or requirements. Some models are not available in some territories. Each model may be discontinued without notice. Please inquire at your local dealer for details of any such changes.

- Always wear a helmet, eye protection and protective clothing.
- Enjoy riding safely.
- Read your Owner's Manual carefully.
- Never ride under the influence of alcohol or other drugs.

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**SUZUKI MOTOR CORPORATION**

300 Takatsuka-cho, Minami-ku, Hamamatsu City, JAPAN 432-8611

[www.globalsuzuki.com](http://www.globalsuzuki.com)



Suzuki's "Way of Life!" is the heart of our brand - every Suzuki vehicle, motorcycle and outboard motor is built to create excitement so customers can enjoy everyday life.



Way of Life!