



V-Strom 650

V-STROM 650



OVERVIEW

Renowned for versatility, reliability, and value, Suzuki's V-Strom 650 models attract riders who use their motorcycles for touring, commuting, or a fun ride when the spirit moves them. These are touchstone motorcycles balanced with a natural riding position, comfortable seat, and a flexible, distinctive V-twin engine character that produces stress-free riding during daily use or a high-mile adventure.

Continuing the V-Strom family tradition of being a fun and logical motorcycle to buy and ride, the 650's narrow engine delivers stellar performance and great fuel economy while complying with worldwide emission standards. Low weight and a trim chassis create a V-Strom that is versatile, eminently rideable, and financially accessible. The 2025 V-Strom 650 is an adventure bike greater than the sum of its parts, offering versatility and reliability like no other motorcycle in its class, bringing a healthy dose of fun when you take it down any type of road.



Glass Sparkle Black

2025

2025

KEY FEATURES

- Liquid-cooled, 645cc, V-twin engine delivers a strong rush of high-rpm power that benefits any riding mission. The engine's 90-degree crankshaft and ignition timing provide perfect primary balance for superb traction at all speeds while delivering a pleasant, rumbling exhaust note.
- The six-speed transmission suits sporty rides with tight first through fifth gear ratios and a tall top gear (sixth gear) for enjoyable highway cruising. The multi-plate clutch has precise push rod actuation of the pressure plate for a light lever pull and a consistent release point.
- The strong and lightweight aluminum twin-spar frame and sub-frame have integrated mount points for optional accessory Suzuki V-Strom luggage that is easy to mount or remove and keep the motorcycle trim for daily use, but ready for touring in seconds.
- Beautifully coated in Glass Sparkle Black paint, the effective fairing with vertically stacked headlights, adjustable windshield, and iconic Suzuki DR-Big styling adds true adventure style and real-world function.
- Suzuki's Advanced Traction Control System*, Easy Start System, Low RPM Assist feature, plus ABS** technology help make this great motorcycle really incredible.
- The multifunction, illumination-adjustable instrument panel brings a wealth of information to the rider in a concise manner and helps when setting rider-assist features.
- Suzuki Genuine Accessories include side and top cases, engine guards, low- and high- profile seats, heated grips, hand guards, and more. The V-Strom has a 12-month limited warranty and longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).

ENGINE

- Using SV650 engineering, the V-Strom 650's DOHC, liquid-cooled engine is tuned to deliver clean, strong power at any rpm.
- The engine's 90-degree crankshaft and ignition timing provide perfect primary balance for superb traction at all speeds while delivering a pleasant, rumbling exhaust note.
- Low-friction resin-coated pistons and SCEM-coated cylinders help deliver improved mileage for class-leading touring range.
- Unique engine cover hardware and select fasteners are designed to permit the use of Torx® or conventional hex-style tools.
- The fuel-injection system employs Suzuki's innovative SDTV (Suzuki Dual Throttle Valve) on 39mm throttle bodies. The secondary throttle valves are controlled by a servo motor for smooth power delivery.
- Ten-hole, long-nose-type fuel injectors on each throttle body improve fuel atomization for better combustion efficiency while reducing fuel consumption.
- Suzuki's patented Throttle-body Integrated Idle Speed Control (TI-ISC) stabilizes the engine idle speed and helps lower emissions. The system is compact and lightweight.
- The Engine Control Module (ECM) provides state-of-the-art engine management and has enhanced settings to suit the updated intake and exhaust systems, resulting in better fuel economy and linear throttle response.
- The engine has dual spark technology cylinder heads with two high-energy, slim electrode spark plugs per cylinder, aiding combustion efficiency and power production.
- The sleek 2-into-1 exhaust system routes below the chassis, reducing weight, centralizing mass, and providing space for a narrow tail section (and optional luggage).
- The exhaust system has twin catalyzers and employs O2 feedback to the EFI system helping produce optimum combustion efficiency and reducing emissions to an incredibly low level.
- The compact radiator is flanked by wind-directing plates enhancing cooling efficiency and helping direct heat out of the side vents away from the rider's legs.

DRIVE LINE

- The six-speed transmission suits sporty rides with tight first through fifth gear ratios and a tall top gear (sixth gear) for highway cruising.
- The multi-plate clutch has precise push rod actuation of the pressure plate for a light lever pull and a consistent release point.
- A low-maintenance, long-life sealed O-ring drive chain is standard.

CHASSIS

- A lightweight, rigid twin-spar aluminum frame and swingarm contribute to smooth handling performance and help provide excellent stability.
- Spring-preload-adjustable 43mm front forks and link-type rear suspension are combined with a rebound damping adjustment and an accessible hand-operated spring preload adjuster.
- Light, ten-spoke cast wheels are shod with Adventure-spec Bridgestone® Battlax 19-inch front and 17-inch rear tubeless radial tires for all-around good performance.
- Dual front 310mm disc brakes and a rear 260mm disc brake with a compact Anti-lock Brake System (ABS)** monitor wheel speed helping match braking to available traction.

BODY

- The beak-style fairing, with vertically stacked headlights and a stronger internal structure, helps the V-Strom 650 cut through the wind, protecting the rider in style.
- The three-way height-adjustable windscreen is wind tunnel-tested to reduce wind sounds, buffeting, and rider fatigue.
- The spacious two-up seat combines smooth and slip-resistant surfaces, plus an embossed V-Strom logo.
- The lightweight resin luggage rack incorporates easy-to-grasp grab bars and aligns with the passenger section of the seat, offering a larger surface for carrying cargo or luggage.
- The fuel tank has a generous 5.3-gallon capacity and its thinner shape at the rear flows into the slimmer seat, helping the rider's feet touch the ground at stops.
- The fuel tank's internal construction and fuel cap are both updated so the gasoline capacity is the same for both the 49-state and California versions.

RIDER AIDS

- The V-Strom 650 is equipped with Suzuki's Advanced Traction Control System*, which lets the rider control the throttle with more confidence in various riding conditions. It continuously monitors front and rear wheel speeds, throttle opening, engine speed, and the selected transmission gear to adjust engine output if wheel spin is detected.
- There are three traction control modes (1, 2, and OFF), and the difference between the modes is their sensitivity to road conditions. Mode 1 is the lowest sensitivity level, most suitable for skilled riders or in conditions with good road surface grip (riding on good, smooth roads). Mode 2 is the highest sensitivity level, suitable for road conditions where the grip may be limited (wet or cold surfaces). OFF disengages all traction control features.
- Suzuki's Low RPM Assist feature seamlessly adjusts engine speed during takeoff and low-speed riding to smooth the power delivery. It also helps reduce the possibility of the rider stalling the motorcycle.
- This V-Strom also features the Suzuki Easy Start System, which lets the rider start the motorcycle with a momentary press of the start button without pulling in the clutch lever when the transmission is in neutral.

ELECTRICAL

- The multifunction instrument panel features brightness-adjustable LED backlighting for its large-diameter analog tachometer, digital speedometer, and LCD data display.
- LCD readouts include an odometer, dual tripmeter, traction control modes, gear position, coolant and ambient air temperature, fuel consumption, fuel gauge, and a clock. Switching between readings can be done with the left handlebar switch.
- LED indicators include an ABS alert and a freeze warning icon, which together with the air temperature display warn of possible icy road conditions.
- A strong three-phase charging system supplies the 10Ah maintenance-free battery for easy starting and additional accessory power. A dedicated accessory fuse is located under the seat.
- The stacked, 65/55-watt halogen headlamps illuminate the road when a ride stretches into night.
- The LED tail and brake light are bright and vibration resistant. The turn signals use bright amber incandescent bulbs with clear lenses.
- A handy 12-volt DC accessory outlet is mounted on the inner dash.

ADDITIONAL

- Suzuki Genuine Accessories include side and top cases, engine guards, low- and high- profile seats, heated grips, hand guards, and more.
 - Riders can order key cylinders for the Suzuki Genuine Accessory plastic side or top cases, so the luggage and the V-Strom 650 have one-key operation.
 - The Suzuki accessory aluminum side cases and top cases have a sturdy lock and latch system using a different style key that does not match the motorcycle's ignition key.
 - See the Suzuki Genuine Accessory catalog for information related to luggage setup on the V-Strom 650.
- Suzuki 12-month limited warranty. Longer coverage periods with other benefits are available through Suzuki Extended Protection (SEP).
- 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. Nor can it 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:	645cc, 4-stroke, liquid-cooled, DOHC 90°, V-twin
Bore x Stroke:	81.0 mm x 62.6 mm (3.2 in. x 2.5 in.)
Compression Ratio:	11.2:1
Fuel System:	Fuel injection, SDTV-equipped
Starter:	Electric
Lubrication:	Wet sump

DRIVETRAIN

Clutch:	Wet, multi-plate type
Transmission:	6-speed constant mesh
Final Drive:	Chain, RK525SMOZ8, 118 links

CHASSIS

Suspension, Front:	Telescopic, coil spring, oil damped
Suspension, Rear:	Link type, single shock, coil spring, oil damped
Brake, Front:	Tokico®, 2-piston calipers, twin disc, ABS-equipped
Brake, Rear:	Nissin®, 1-piston, single disc, ABS-equipped
Tire, Front:	110/80R19 M/C (59V), tubeless
Tire, Rear:	150/70R17 M/C (69V), tubeless
Fuel Tank Capacity:	20.0 L (5.3 US gal.)

ELECTRICAL

Ignition:	Electronic ignition (transistorized)
Spark plugs:	NGK® MR8E-9
Headlight:	12V 65W (H9 high-beam) and 12V 55W (H7 low-beam)
Tail Light:	LED

DIMENSIONS

Overall Length:	2275 mm (89.6 in.)
Overall Width:	835 mm (32.9 in.)
Overall Height:	1405 mm (55.3 in.)
Wheelbase:	1560 mm (61.4 in.)
Ground Clearance:	170 mm (6.7 in.)
Seat Height:	835 mm (32.9 in.)
Curb Weight:	213 kg (470 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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