

# 2017 Z650L


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The newest addition to Kawasaki's Z Supernaked Series features a 650cc Parallel Twin engine with strong low-mid range torque and an all-new lightweight chassis in a slim, compact middleweight package that offers sugomi performance and styling.

The Z650L's nimble handling, superb feedback and strong acceleration are complemented by easy-to-manage power delivery and rider-friendly manoeuvrability, offering an ideal blend of sporty performance and everyday versatility sure to satisfy everyone from new to more experienced riders. Eyecatching Z styling reflects the sporty nature of this exciting new machine. This LAMS model is an ideal machine due to the smooth high torque power delivery, lightweight and easy handling with a low narrow seat height. Sugomi performance ensures that riding the Z650L is a treat for the senses. A responsive, torqueful engine character and nimble, lightweight chassis offer sporty riding excitement that new and more experienced riders alike will enjoy.



Engine:	
Type	Liquid-cooled, 4-stroke Parallel Twin
Displacement	649 cm <sup>3</sup>
Bore and Stroke	83.0 x 60.0 mm
Compression ratio	10.8:1
Valve system	DOHC, 8 valves
Fuel system	Fuel injection: ø36 mm x 2 (Keihin)
Ignition	Digital
Starting	Electric
Lubrication	Forced lubrication, semi-dry sump
Drivetrain:	
Transmission	6-speed, return
Final drive	Sealed Chain
Primary reduction ratio	2.095 (88/42)
1st	2.438 (39/16)
2nd	1.714 (36/21)
3rd	1.333 (32/24)
4th	1.111 (30/27)
5th	0.966 (28/29)
6th	0.852 (23/27)
Final reduction ratio	3.067 (46/15)
Clutch	Wet multi-disc, manual
Frame:	
Type	Perimeter, high-tensile steel
Wheel travel:	
Front	125 mm
Rear	130 mm
Tyre:	
Front	120/70ZR17M/C (58W)
Rear	160/60ZR17M/C (69W)
Caster (rake)	24.0°
Trail	100 mm
Steering angle (left/right)	35° / 35°

Suspension:	
Front	41 mm telescopic fork
Rear	Offset laydown single-shock with adjustable preload
Brakes:	
Front:	Dual semi-floating 300 mm petal discs
Caliper	Dual piston with ABS
Rear:	Single 220 mm petal disc
Caliper	Single-piston with ABS
Dimensions:	
Overall length	2,065 mm
Overall width	775 mm
Overall height	1,080 mm
Wheelbase	1,410 mm
Ground clearance	130 mm
Seat height	790 mm
Curb mass	186 kg (includes full tank of fuel)
Fuel capacity	15 L
Performance:	
Maximum power	37.8 kW (51 PS) / 8,000 rpm
Maximum torque	59 N·m @6,500 rpm
Colours:	
	
Pearl Flat Stardust White / Metallic Spark Black	Metallic Flat Spark Black / Metallic Spark Black
<p>The specifications mentioned here apply to and have been achieved by production models under standard operating conditions. We intend only to give a fair description of the vehicle and its performance capabilities</p>	

but these specifications may not apply to every machine supplied for sale. Kawasaki Heavy Industries, Ltd. reserves the right to alter specifications without prior notice. Equipment illustrated and specifications may vary to meet individual markets.

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### SUGOMI PERFORMANCE: SPORTY ENGINE PERFORMANCE & LIGHT, NIMBLE HANDLING

Sugomi performance ensures that riding the Z650L is a treat for the senses. A responsive, torqueful engine character and nimble, lightweight chassis offer sporty riding excitement that new and more experienced riders alike will enjoy.

Tuning of the 649 cm<sup>3</sup> Parallel Twin engine focused on achieving a throttle response that balanced a powerful feeling and a quick-revving character. To optimise performance for everyday riding, care was taken to maximise low-mid range torque. When opening the throttle, riders will notice an extremely smooth and powerful engine character that offers both a high level of control when making minute throttle adjustments and a gratifying rush of acceleration in the lower rpm ranges. This tuning also benefits fuel economy.



#### Parallel-Twin Engine Tuned for Low-Mid Range Power & Torque

Performance and feel were optimised for the mid-range (3,000-6,000 min<sup>-1</sup>). However, in the low-rpm range (below 3,000 min<sup>-1</sup>) power delivery is very smooth, and even above 6,000 min<sup>-1</sup> power and torque curves continue on without dropping off suddenly.

#### Digital Fuel Injection

Liquid-cooled, DOHC, 8-valve 649 cm<sup>3</sup> Parallel Twin with fuel injection delivers smooth, responsive performance, especially in the low and medium rpm ranges. The strong low-end focus lends itself to sporty riding, but also translates to rider-friendly power characteristics that facilitate control and inspire confidence in new riders.

#### Under-engine muffler

Simple, sleek silencer design adds to the bikes's overall slim design. Under-engine muffler improves mass centralisation and lowers the bike's centre of gravity. Muffler internal construction and catalyser layout ensure clean emissions that will pass stringent Euro 4 regulations. The muffler's 33 mm diameter tail pipe also contributes to strong low-mid range performance and response.



#### Radiator Shroud

Patented radiator fan cover located behind the radiator directs hot air down and away from the rider, significantly increasing comfort when stuck in heavy traffic. Redirecting the air also helps keep the tank, frame and other parts that contact the rider cooler, further increasing rider comfort.



#### Assist & Slipper Clutch

Assist & Slipper Clutch was developed based on feedback from racing activities. The clutch uses two types of cams (an assist cam and a slipper cam), offering two new functions not available on a standard clutch.



#### Horizontal Back-Link Rear Suspension

Horizontal Back-link rear suspension offers a progressive character. Compared to link-less type suspension, it delivers a better balance of sporty performance and ride comfort. Rear suspension positions the shock unit and linkage above the swingarm. This arrangement contributes to mass centralisation, while ensuring that the suspension is located far enough from the exhaust that operation is not

affected by heat.



### All-New Trellis Frame

One of the key components realising Z650L's light weight (noticeable as soon as the bike is lifted off its side-stand), the all-new frame weighs only 15 kg and contributes significantly to the bike's light, nimble handling. Components of the high-tensile steel trellis frame follow the ideal pipe line. The lines of the frame were made as straight as possible, and when bends were necessary their angles were made as small as possible, resulting in a design that disperses stress extremely well.



### Light, Strong Swingarm

Kawasaki's new in-house analysis technology was also used in the swingarm. Similar to the frame, the line from the pivot to rear axle was made as straight as possible. The lightweight design of swingarm (4.8 kg) contributes to the bike's light, natural handling.



### Easy Manoeuvrability

The Z650L's low weight and low seat height both contribute to manoeuvrability, whether walking beside the bike, or foot peddling in a parking lot. The easy-to-manage engine response and strong low-end torque further facilitate low-speed manoeuvring.



### Relaxed, Sporty Ergonomics

Wide, flat handlebar and a relaxed, sporty riding position allows riders to fully capitalise on the Z650L's sporty street riding potential. Thanks to the low seat height and the bike's slim overall design, it's easy to keep both feet firmly on the ground when stopped, an important consideration for many riders. The low 790 mm seat height accommodates riders spanning a wide range of heights, enabling them to ride with confidence.



### Sport Riders Seat

The sport riders seat is slim at the front facilitating the rider's reach to the ground. Seat bracket is rubber-mounted at the front to reduced vibration transferred through the seat. Handlebar is rubber-mounted to reduce vibration transmitted through the handle grips and to the mirrors.



### Adjustable Levers

Both the clutch and front brake lever are 5-way adjustable, able to accommodate a variety of hand sizes for increased comfort. Rider and passenger footrest feature rubber pads. Harder rubber combined with hollow centres were designed to reduce vibration felt through the footpegs.

### Eye Catching Z Styling

From its front cowl adorned with meter cover to its compact tail cowl, the Z650L's head-turning design exudes a functional beauty. Complementing sugomi design elements (crouching stance, low-positioned head and upswept tail) that give it an instantly recognisable silhouette, its condensed appearance is emphasised by slim, close-fitting bodywork designed to give the bike a light, nimble image that reflects its sporty performance.





### Petal disc brakes with ABS

Dual 300 mm front petal disc brakes and 220 mm rear petal disc look great and deliver plenty of braking power while contributing to the bike's sporty image. Dual-piston front calipers, master cylinder and brake pads offer superb brake touch and control. In addition to the very effective petal disc brakes, customers looking for an added degree of reassuring braking performance are advised that the Z650L has standard front and rear ABS braking systems.



### Compact Multi-Function Instrumentation

Stacked instrument cluster features an easy-to-read layout. Analogue-style tachometer features a gear position indicator at its centre and sits atop a multi-function LCD screen. Gear position indicator increases shifting precision and confidence, while also lending to the Z650L's sporty image. Tachometer offers three selectable display modes, allowing riders to tune their instrumentation to suit their preference. The tachometer also doubles as a shift up indicator, flashing at the set rpm. Riders can set the shift-up timing between 5,000 and 11,000 rpm in 500 rpm increments. The shift indicator function may also be turned OFF. LCD screen features a negative display (white letters on a black background), adding to the instrument cluster's sporty, modern appearance. In addition to the digital speedometer and gear position indicator, display functions include: odometer, dual trip meters, fuel gauge, remaining fuel range, current and average fuel consumption, coolant temperature, clock and the Economical Riding Indicator.



### "Z" LED Taillights

Ensuring the Z650L is not mistaken for anything other than Kawasaki Supernaked when viewed from behind, its sharp LED taillight lights up in a 'Z' pattern, contributing to the sporty image and the strong Z identity.

## Colours



**Pearl Flat Stardust White / Metallic Spark Black**



**Metallic Flat Spark Black / Metallic Spark Black**