



HONDA *Come ride with us.*

VIGOR

650



VIGOR 650 - 991 - E

Design Concept

As a new, basic street-bike with a bold 'go-anywhere' attitude, the Vigor 650's design and styling will surely attract the smart rider who dreams of effortlessly zipping through city traffic with agility and comfort, unconcerned by the single-minded pursuit of performance. All aspects of the Vigor 650's component parts emphasize its distinctive street-bike orientation.

A number of features such as the tank, seat and rear fender exhibit the Vigor 650's perfect match between form and function. With large, modern-looking, flat black sidecovers providing an anchor of visual focus, attention is drawn to the new Vigor 650's flashy colours and menacing exhaust system. This system's highly polished, stainless-steel, canister-style

silencers point threateningly out from under the back of the seat to stress the Vigor 650's promise of powerful midrange performance and street-charging agility. Up front, the large headlight, petite, sporty front fender and neat, high-tech meter panel combine to strongly emphasize this new street machine's city-bred charms.



Colouring Concept

The Vigor 650's aggressively sporty 'city scrambler' looks are boldly accented by two solid colour variations that deliver a powerful statement of performance shorn of all distracting graphics save the Honda Wing mark on its fuel tank and the colour-matched model name applied to its matte black sidecovers. Its bold splashes of colour extend from a small and sporty front fender and a stylish bikini cowl through the large, sculpted fuel tank to its sleekly designed seat cowl, and are attractively contrasted by the engine's solid black colour and the

burnished stainless steel of its impressive dual canister exhaust system. For its debut year, the lively new Vigor 650 hits the streets in two attractive colour variations. A brilliant, eye-catching red leads the attack with an unmistakable emphasis on this new machine's distinctive 'urban guerilla' appeal. On the other end of the scale, a dark, metallic midnight blue gives the new Vigor 650 a 'stealth'-like look of understated strength waiting to come alive at the twist of its throttle.

Colours

- Sparkling Red
- Prime Blue Metallic



Engine

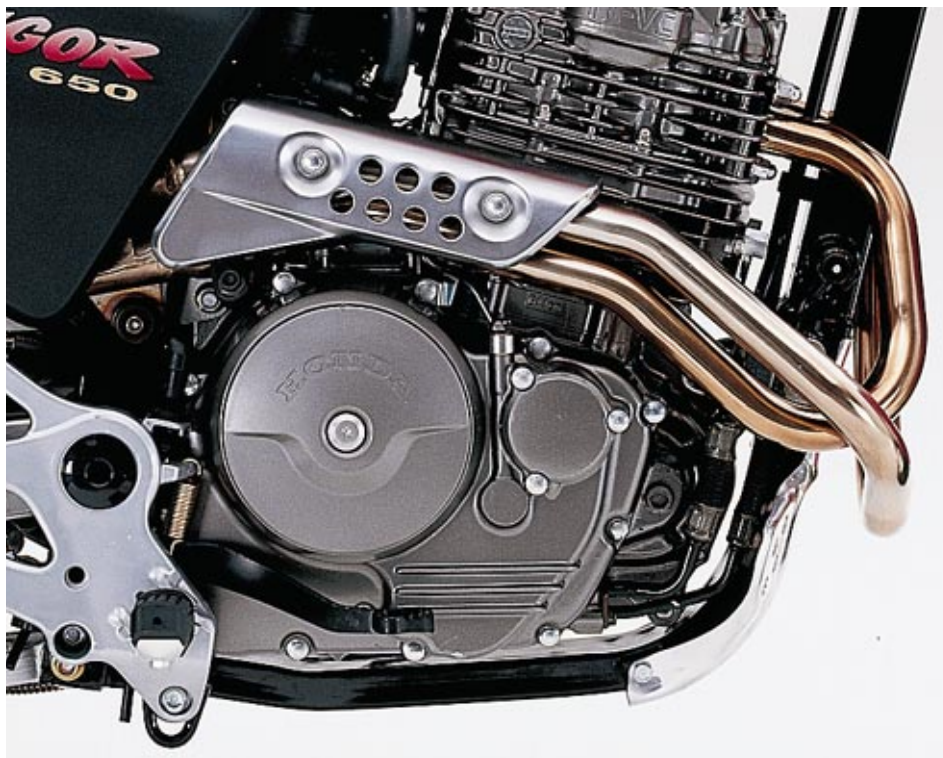
Powerful 644cm³ Air-Cooled Single-Cylinder Engine

The Vigor 650 is the perfect motorcycle for urban touring enthusiasts. With its air-cooled single-cylinder engine designed for maximum efficiency and responsive power, this city cruiser flies down the streets with the greatest of ease.

The Vigor 650's engine has been tuned, and its cams specially ground for a strong inner-city power deliv-

ery. Pulling with impressive torque all the way to its high-revving peak, this low-down, mid-sized motorcycle makes any distance seem short, while its smooth-shifting five-speed transmission is geared towards ultimate comfort on the road and easy climbs up steep hills, even with a passenger along for the ride. Its large-throat carburettor gulps air for quick response and easy starts, feeding the free-breathing

cylinder through a sophisticated RFVC (Radial Four Valve Combustion chamber) cylinder head. The Vigor 650 also features a refined single-shaft balancer system for smooth city cruising, and a dry sump lubrication for compact dimensions and enhanced cooling efficiency that ensure optimum reliability.



Engine

Imposing Dual-Canister Exhaust System

The Vigor 650 features a large-volume, dual-canister exhaust that strongly hints at the feline power of this city cat. Featuring two large-diameter, buffed stainless-steel silencers protruding out from under the seat, this system provides an

aggressive look and an impressive sound, while optimizing the engine's powerful performance for snappy acceleration and smooth traffic slicing. New, stylishly designed muffler protectors top off the smooth design of this all-new city bike.



Chassis

Innovative 'Mono-Backbone' Frame

The Vigor 650 also breaks new ground when it comes to the construction of its frame. Unlike the tubular steel frames of many traditional city-bikes, the Vigor 650 is built around Honda's innovative 'Mono-Backbone' frame. Its robust pieces of rectangular-section steel tubing are laid out in a simple, single-cradle configuration, making it lightweight and rigid at the same

time. The main backbone of the frame also doubles as the dry sump engine's oil reservoir, and offers an ample 2.2 litres of oil capacity. The frame's single rectangular steel seat rail is attached at one point and supported by two triangulated box-section braces for optimal rigidity. The seat's easy reach to the ground is an added bonus of this design. Two large, yet lightweight, open-forged aluminium plates are

mounted on either side of the base of the frame and bolted directly onto the swingarm pivot-shaft. These pieces carry the foot pegs, levers and related components while imparting a simple, undisguised urban design. Conceived for street use, the newly-fashioned frame combines with the Vigor 650's smaller 19" front wheel to realize a more compact configuration for nimble and comfortable maneuverability.



Chassis

'Street-Wise' Suspension System

The Vigor 650's suspension has been set up for peak street-bike performance, based on a configuration that combines a long stroke with confident handling to perform well in the demanding traffic of Europe's modern cities. Its rigid, 41mm front fork uses sturdy, leading-axle sliders and offers compliant response, precise handling and 190mm of axle travel. At the rear, Honda's progressive Delta-Link Pro-Link rear suspension supports a rectangular-section steel swingarm for

superb control and a comfortable ride through its 170mm of axle travel.

Fat Tyres; Akront Rims; Brembo Disc Brake

For the new Vigor 650's wheels and brakes, Honda called upon the experience and quality of world-renowned OEM manufacturers. Akront aluminium wheel rims are known for being lightweight and sturdy. That is why Honda attached them to the Vigor 650's hubs with Honda's original Tangentially-Located (TL) spokes, which guar-

antee optimal retention of spoke tension and low wheel maintenance needs. The wheels were then mounted with fat street tyres featuring an all-new, block pattern tread that assures superb grip. Brembo, one of the most prestigious names in brakes, supplied the Vigor 650 with excellent disc brake control, front and rear. Up front, a dual-piston caliper stops a 276mm rotor, while in the back a 220mm drilled rotor is gripped between asbestos-free, sintered metal pads by a compact, single-piston rear caliper.



Equipment

Large Streetbike Headlight

To bring city traffic into sharper focus, the Vigor 650 is mounted with an imposingly large 180mm streetbike headlight that projects a bright, nighttime expanse of illumination. Offering a dash of weather and wind protection for intensive city duties, the Vigor 650's seamlessly fitting standard semi-cowl elevates its sporty flavour an extra notch.

New White-Face Speedometer

The Vigor 650's simply designed meter module features an eye-catching white-face speedometer with a large, easy-to-read number display. The module's large indicator lights also feature ISO-standard symbols printed directly on their faces to facilitate recognition in any language.

Capacious Fuel Tank

Fed by a large 13-litre tank, the Vigor 650 provides long distances of riding fun between fill-ups. The tank's slim design offers great handling and manoeuvring ease, while its 3-litre reserve capacity provides a comfortable safety margin when stretching the day's ride.

Broad, Comfortable Seat

A brand new, plush and comfortable dual seat carries two in long-term comfort, offering sumptuous seating for both rider and pillion. The low effective seat height allows most riders to touch the ground comfortably with both feet when stopped.

Large, Removable Rear Carrier

Behind the Vigor 650's wide, comfortable seat sits a large, moulded resin rear carrier mounted on an attractive cast resin frame that makes it a convenient and easy helper around town to run daily errands. The carrier can be removed from the frame so as to give the Vigor 650 a more sporty and stylish appearance. It also features fixed comfortable, contoured passenger grabrails integrated into its design on both sides, as well as special slots and a sturdy rubber strap designed to securely carry any of several varieties of 'U'-type anti-theft locks.



Specifications**Specifications****Vigor 650 (ED-Type)**

Engine	Air-cooled 4-stroke RFVC SOHC single
Bore × Stroke	100 × 82mm
Displacement	644cm ³
Compression Ratio	8.3 : 1
Carburettor	40mm VE-type × 1
Max. Power Output	39.4PS/5,750rpm (DIN) (29kW/5,750min ⁻¹)
Max. Torque	5.5kg-m/4,500rpm (DIN) (54Nm/4,500min ⁻¹)
Ignition	Fully transistorized electronic
Starter	Electric
Transmission	5-speed, constant mesh
Final Drive	'O'-ring sealed chain
Dimensions	(L×W×H) 2,185 × 765 × 1,140mm
Wheelbase	1,440mm
Seat Height	845mm
Ground Clearance	200mm
Fuel Capacity	13 litres (including 3-litre reserve)
Wheels	Front 19 × MT2.15 aluminium rim/Tangentially Located (TL) spoke Rear 17 × MT2.50 aluminium rim/Tangentially Located (TL) spoke
Tyres	Front 100/90-19 54S Rear 120/90-17 64S
Suspension	Front 41mm telescopic fork, 190mm axle travel Rear Pro-Link, 170mm axle travel
Brakes	Front 276mm × 5mm single hydraulic disc with dual-piston caliper and sintered metal pads Rear 220 × 5mm hydraulic single-piston caliper disc and sintered metal pads
Dry Weight	161kg