WR450F

Enduro versatility, maximum performance.

Ready to take on any enduro challenge, the WR450F utilises the latest in Yamaha engine developments, as well as benefitting from a redesigned chassis – developed to give you more comfort, more control and maximum feeling when tackling extreme off-road conditions. The combination of a thrilling engine and lightweight chassis with compact bodywork make this the best-ever 450cc Yamaha enduro bike with the highest degree of controllability in a wide range of situations.

Its lightweight, redesigned aluminium chassis results in a low centre of gravity for enhanced control and precision, giving you the advantage in all conditions. The optimised rider triangle means that you can shift your body position more easily to maintain peak control – and the best-in-class KYB suspension has been specifically optimised to enhance contact feeling and stability, allowing you to follow your intended line with greater confidence.

An all-new hydraulic clutch has been specifically developed for the WR450F with enduro riding in mind, giving a natural, light engagement with consistent behavior for better control. Detailed revisions also include a lighter pull,

- Class leading YZ450F-based engine
- Meeting the latest noise regulations
- Enduro specific hydraulic clutch
- Lightweight wide-ratio 5-speed transmission
- Improved chassis rigidity
- Slimmer and more compact bodywork
- Uprated KYB suspension
- Increased rear brake control
- Renewed Power tuner app
- Optimised ergonomics
- Full enduro-ready specification

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An all-new hydraulic clutch has been specifically developed for the WR450F with enduro riding in mind, giving a natural, light engagement with consistent behavior for better control. Detailed revisions also include a lighter pull, ensuring less fatigue so you can tackler longer, tougher trails without compromise. The Power Tuner app leads the way in rider control electronics: it manages an anti-theft ECU lock system, unlockable only by the owners' password. It's also easier and quicker than ever to adjust engine power characteristics to match terrain, weather, and riding styles with just a few screen taps.

For Every Trail

The WR450F gives you absolute control for ultimate performance on all types of fast, slippery and technical terrain. Equipped with Yamaha's enhanced 450cc engine, a newly designed sturdy yet compact aluminium chassis, and paired with an all-new hydraulic clutch and ECU lock system – the cutting-edge WR450F puts you in charge.

The WR450F features a host of engine revisions designed specifically for enduro riding to produce predictable, controllable power while optimising low-end grunt, without losing its strong linear performance. The improved engine control and 5-speed wide ratio transmission deliver increased performance and traction over a wide speed range – while the Power Tuner app makes it easier to select the right mapping for total control in widely varying track and weather conditions.

Equipped with a lightweight aluminium chassis, the WR450F feels more compact and agile than ever. The frame has been redesigned to enhance response and controllability, with a thickened upper section, narrower bottom section and asymmetric engine mounts specifically for enduro performance. The latest KYB suspension works in harmony with the new chassis design, with an increased spring rate and oil level giving you better feeling, with precise damping and minimum weight transfer.

WR450F

Class leading YZ450F-based engine

Sometimes, there's no substitute for power. The next generation 450cc 4-stroke reverse-head engine is the strongest and most advanced design ever used on a Yamaha enduro bike. Its enduro specific camshaft timing purposefully suppresses low-rpm torque to optimise it for enduro riding while delivering smoother power characteristics and reducing the tendency for engine stalls giving you extra confidence on the trails.

Meeting the latest noise regulations

The WR450F exhaust utilises a centrally positioned resonator whilst the air filter also houses a resonator and duct to reduce induction noise to meet the latest sound regulations. Its front facing intake is also uniquely designed to enable the 450cc engine to run at peak efficiency at all rpm. A straight intake port runs directly to the 39mm inlet valves, giving instant throttle response for immediate acceleration when you need it.

Enduro specific hydraulic clutch

The all-new durable hydraulic clutch gives a natural, light engagement with consistent behaviour for better control. It offers a light pull with plenty of feel, resulting in easier control of the engine – particularly beneficial when handling extreme conditions and lower-speed enduro riding.

Lightweight wide ratio 5-speed transmission

To match the most challenging enduro conditions, the WR450F runs with an optimised 5-speed wide ratio gearbox. Featuring gears with increased strength, this durable transmission is ideal for both technical as well as high speed sections.

Redesigned chassis

Offering improved control and comfort, the WR450F benefits from a redesigned chassis which has been developed from the race winning YZ450F. Tuned to offer a balanced rigidity, the downtube features a thickened upper section, narrowed bottom section and asymmetric engine mounts, ensuring more comfort and a better response when tackling tough enduro challenges.

Slim, compact bodywork

Slim, compact, and ready to conquer. The WR450F's narrow bodywork shrouds and mid-section offer freedom to move in all riding positions, while the flat seat features a new textured surface for optimum grip under hard acceleration and aggressive cornering.

YAMAHA
Revs Your Heart

WR450F

Engine	
Engine type	Liquid-cooled; 4-stroke; DOHC
Displacement	450cc
Bore x stroke	97.0×60.8mm
Compression ratio	13.0:1
Lubrication system	Dry sump
Clutch Type	Wet; Multiple Disc
Ignition system	TCI
Starter system	Electric
Transmission system	Constant Mesh; 5-speed
Final transmission	Chain
Carburettor	Fuel Injection

Chassis	
Frame	Steel Double Cradle
Front suspension system	Telescopic fork
Front travel	300mm
Rear suspension system	Swingarm; (Link type suspension)
Rear Travel	306mm
Front brake	Hydraulic single disc brake
Rear brake	Hydraulic single disc brake
Front tyre	90/90-21 54R Tube type
Rear tyre	140/80-18 70R Tube type
Caster Angle	27°00’
Trail	121mm

Dimensions	
Overall length	2170mm
Overall width	825mm
Overall height	1265mm
Seat height	955mm
Wheel base	1470mm
Minimum ground clearance	330mm
Wet weight (including full oil and fuel tank)	116kg
Fuel tank capacity	7.4L
Oil tank capacity	1.20L

Always wear a helmet, eye protection and protective clothing. Yamaha encourage you to ride safely and respect fellow riders and the environment. Images shown depict professional riders performing under controlled conditions. Specifications and appearance of Yamaha products as shown here are subject to change without notice and may vary according to requirements and conditions. For further details, please consult your Yamaha dealer.