



Wrong is right

Yamaha's high-tech reverse cylinder head powered the WR450F to ISDE victory, and it sets our winning enduro bikes apart from the rest. The front facing intake boosts power and contributes towards the bike's easy-to-use linear torque – while new ECU mapping gives improved throttle characteristics. And to reduce weight we've removed the kickstart.

The industry leading KYB® suspension benefits from optimized settings for outstanding handling and controllability at all speeds over a wide variety of terrain.

Inspired by its race-winning predecessors and featuring fresh new graphics and blue rims, the 2018 WR450F is built to take you all the way.



- Powerful, compact and controllable 450cc 4-stroke
- Potent fuel injected engine with linear torque
- Reverse cylinder head with front facing intake
- Aluminium beam frame with optimized rigidity
- Wide ratio 5-speed transmission with enduro clutch
- Switch-free electric starter and auto-decompressor
- Convenient plug in Power Tuner for easy tuning
- Outstanding suspension performance
- Mass centralized design for agile handling
- Top mounted air filter and underseat fuel tank
- 18-inch rear wheel, Metzeler 6 Days Extreme tyres

Rightfully wrong

Equipped with the most advanced engine and chassis technology ever developed for a Yamaha dirt bike, the WR450F means business.

Built for serious enduro racers as well as long distance rally riders and experienced recreational riders, the WR-F features new ECU mapping for improved throttle feel and smoother pick up - giving you outstanding performance together with a higher level of controllability.

Its compact, mass centralised chassis benefits from optimized suspension settings for outstanding handling and turning performance - and with its wide ratio 5-speed transmission, KYB® suspension and switchless electric start, the Yamaha WR450F gives you the power to perform.



Aluminium beam frame

Developed alongside the latest reverse head engine, the aluminium bilateral beam frame is a spin-off from the 2017 ISDE winning WR450F and World Championship winning YZ450F. Running with an optimized rigidity balance, its compact and lightweight design offers agility with stability - allowing you to make full use of the deep reserves of linear torque.



Reverse cylinder head with straight intake

First seen on our MXGP-winning YZ450F motocrosser, the WR450F's revolutionary reverse cylinder head features a front facing intake and rear-exit snaking exhaust. By increasing intake and exhaust efficiency, this industry-leading layout optimizes the engine's linear torque feeling, giving deep reserves of highly controllable power.



Optimized suspension settings

Optimized suspension settings give outstanding performance over all types of extreme terrain. The highly acclaimed KYB® Air-Oil-Separate front forks ensure stable and predictable handling at low and high speeds. At the rear end, Yamaha's famous link-type Monocross suspension system delivers effective traction with a high degree of control.



Optional Yamaha Power Tuner

Every enduro is different, and each rider has their own preferences, so we've developed the Yamaha Power Tuner that allows you to adjust the WR450F's performance character. Offering a range of engine tuning options that can be selected easily and quickly, this optional plug-in accessory makes advanced factory technology available to everyone.



High levels of controllability

The WR450F has been created using the same DNA as our World Championship winning YZ450F motocross model. For improved rideability and reduced fatigue this enduro bike runs with revised fuelling and ignition settings - while the wide ratio gearbox and enduro-specific suspension settings gives you full control.



Enduro radiator with cooling fan

To handle the unique and extreme demands of enduro and rally riding, the WR450F is equipped with specially developed radiators that feature a different core pitch to the YZ-F, as well as newly designed shrouds. There's also a lightweight electric fan that cuts in to keep the engine running efficiently in adverse situations.

Engine

Engine type	Single cylinder; 4-stroke; Liquid-cooled; DOHC; 4-valves
Displacement	449cc
Bore x stroke	97.0 mm x 60.8 mm
Compression ratio	12.5 : 1
Lubrication system	Wet sump
Clutch Type	Wet; Multiple Disc
Ignition system	TCI
Starter system	Electric
Transmission system	Constant Mesh; 5-speed
Final transmission	Chain
Carburettor	Fuel Injection
Maximum power	-
Maximum Torque	-

Chassis

Frame	Semi double cradle
Front suspension system	Telescopic forks
Front travel	310 mm
Rear suspension system	Swingarm; link suspension
Rear Travel	318 mm
Front brake	Hydraulic single disc, Ø270 mm
Rear brake	Hydraulic single disc, Ø245 mm
Front tyre	90/90-21 54M
Rear tyre	130/90-18 69S+M
Caster Angle	26°20
Trail	114mm

Dimensions

Overall length	2,165 mm
Overall width	825 mm
Overall height	1,280 mm
Seat height	965 mm
Wheel base	1,465 mm
Minimum ground clearance	325 mm
Wet weight (including full oil and fuel tank)	123 kg
Fuel tank capacity	7.5litres
Oil tank capacity	0.95litres

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