

Only Husqvarna offers riders an option in enduro mounts. What do you favor? Deep woods? Wide-open terrain? Go ahead—match the bike to your riding needs.





HUSQVARNA 500s

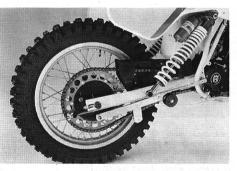
distinct kinds of riders.

Last year Husqvarna boosted the XC's displacement to 488cc while leaving the WR a 430. Now both bikes wear the 500 title; a new crankshaft and longer connecting rod increase engine stroke 10mm, raising the 1984 WR to the XC's 84.0mm dimension. Diameter remains 86.0mm, but both 500s use a piston with a skirt 10mm longer than the 430's. This year the WR shares Husqvarna's new-style cylinder with the XC and CR. All three 500s feature a four-transfer-port design that supersedes the 430 WR's two-transfer-port layout, and a new bridged intake port with additional window-type ports replaces the twin finger-type boost ports that formerly reached up from the bridged intake. The enlarged WR cylinder also incorporates Husky's new

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Husqvarna's 500 engines are chameleons of dirt performance. They can crawl along without raising a puff of dust, or bound from one berm to the next, or rip over an 80-mph barrier.





large-volume eight-petal reed valve in place of the 430's twin V-block reed setup. A new rubber-encased manifold ensures a positive, leak-proof seal, and the XC and WR use identical 40mm Mikuni round-slide carburetors. A soft rubber manifold connects the carb to the airbox. Remove the filter element and you can slip the manifold out of the airbox-a practical design which eases carburetor access. Both bikes breathe through a large oiled-foam-element air filter housed in a new airbox made of a tougher material for increased durability. The single retaining clip provides quick access for filter servicing. In the WR a small airbox lid shields the filter in really wet slogging.



The XC and WR differ subtly in state of tune. Husqvarna uses different pipes, ignition systems and varying engine compression so the XC engine delivers a bit more top-end punch, while the WR features a slightly wider power spread. Both bikes share identical sixspeed gearboxes and primary and final reduction ratios. The 500 XC and WR are geared taller than last year's 430 WR: the 1984 bikes use a 13/53 pairing: the 430 was equipped with 12/53 sprockets.

Thanks to a new, longer kickstart lever, these big bruisers kick through in a snap. The added length provides substantially more mechanical leverage, and your foot easily clears the footpeg, not the case with the old setup. The longer lever does have its drawbacks, however; mounted on the left side of the engine, the kickstarter was already awkward to use, and the extra height exacerbates the problem. Cycle's shorter testers preferred to start the Husqvarnas while standing on



HUSQVARNA 500s

the left and kicking with the right leg; taller staffers sometimes managed to start the 500s left-legged while astride the bike, but they too needed to dismount occasionally to kick.

The 500s usually start readily; three or four kicks and you're under way. The displacement increase hasn't hampered the Husqvarnas' engine flexibility; in fact, the XC and WR are more versatile than ever. At low speed the 500s plonk along contentedly. Slow, feet-up riding is a breeze, and the rider pays no penalty for right-hand mistakes; if you must chop the throttle, just roll the power back on. Simple. Down low, these engines are friendly and easygoing. Spur the engine into the fat portion of the powerband, however, and the 500s change character.

The 430 WR had an almost fourstroke nature, steadily gaining speed as rpm increased, but never coming on the pipe with a strong two-stroke surge. Both the XC and WR deliver a big jolt of honest Swedish horsepower midway through the rev range, and the power builds relentlessly all the way through the top end. The new WR is much more akin to the 500 XC than to last year's small WR. When you wick up either '84 bike, it leaps forward unrestrained. Gas either out of a corner, and the rear end eases out in a nice



controllable slide. As the bike drifts around and begins picking up traction, you can loft the front end and wheelie out of the turn. Great fun. A good deal of flywheel effect leaves the 500s' power surge controllable and friendly.

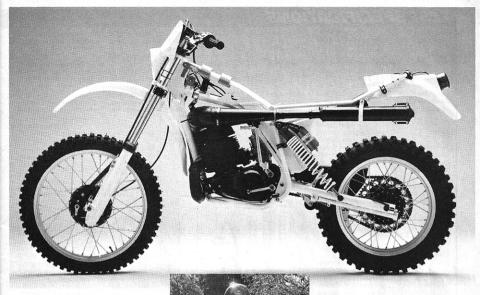
Although the Husqvarnas' gearboxes require a moderately long throw at the shift lever, gear changes are crisp and sure. And the six speeds allow plenty of options. Lugging the engine reduces noticeable engine vibration, but keeping the engine speed up leaves surplus power readily at hand. With stock gearing you can travel from walking speeds to almost 100 mph. Gearing down to a 12/53 combination might be sensible for the average trail rider. Calculated top end still works out to about 90 mph, and the change eases the strain on the one weak link in the Husqvarnas' drive train-the clutch. Although the 500s



The new 500 cylinder (left) uses four transfer ports and two window-type ports above the bridged intakes for cylinder filing. The 430 had two transfers and twin finger-type ports that reached up from the intakes.

use clutch springs stiffer than those in the 430, heavy abuse can heat the clutch sufficiently to make it drag. Lower gearing would eliminate some of the clutching at crawling speeds while sacrificing little top-end ability.

The WR and XC share identical frames with new steering geometry. Gone are the days when Husqvarnas had 30-plus degrees of steering rake and six inches of trail. All 1984 Huskys feature 28.5 degrees of rake—a radical departure for the Swedish company. The WR has grown 10mm in wheelbase, all in the swing arm. The XC's swing arm is longer yet, giving it a wheelbase 18mm longer than the WR's.



A brief spin on the '84 bikes reveals unmistakable changes in steering. The big WR, always quick-handling for an open-class motorcycle, is now more agile than ever. The new WR responds to steering input with uncanny precision and guickness, a trait masking its 254 pounds. Woods riders who must thread sawed-off handlebars through tight, twisty three-lined trails will welcome the '84 WR, delightful in supertiaht aoina.

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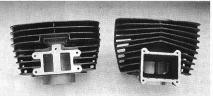
With the new frame; the '84 WR sand and over rocks; on nasty trails

lined with rocks the size of grapefruit and bowling balls, the 500's front end deflects more readily than the older 430's, and it knifes in sand unless you sit far back and keep the power on. The improved agility, however, is worth the tradeoff.

Steering geometry changes cause the XC to steer more quickly in '84 also; that's good or bad depending on your riding terrain. Quicker steering makes the XC more versatile, true, but hardcore desert riders don't give a damn about versatility; they prize highspeed straight-line stability and surefooted sand-tracking above all else. The XC, though it still works well in the desert, has lost some of that surefootedness to better suit fireroading and trail riding.

The 500s' new quick-steering demands a good front tire-something the stock Trelleborg is not. Although the OEM rubber is adequate, a sticky

A single clip holds the oiled-foam air filter in place to make servicing easy. The large airbox is now made of a stronger, more durable material. The taller 500 cylinder (right) accepts a large eight-petal reed block, while the older 430 used two smaller reed valves.



JANUARY 1984

TEST SPECIFICATIONS

Make and model Husqvarna 500 XC
Price, suggested retail (as of 10/14/83) \$2995
Engine
Type Two-stroke, reed-valve-inducted
single-cylinder; air-cooled
Bore and stroke86.0 x 84.0mm (3.39 x 3.31 in.)
Piston displacement 488cc (29.8 cu. in.)
Compression ratio
Carburetion (1) Mikuni 40mm round-slide
Exhaust system Upswept expansion chamber
with silencer and USFS-approved
spark arrestor
Ignition Capacitor-discharge; external-
rotor magneto
Air filtrationOiled foam element
Oil capacity
Bhp @ rpm
Torque @ rpm

Transmission

Type Six-speed, constant-mesh, wet-clutch Primary drive Straight-cut gear; 70/39, 1.79 Final drive ... #520 chain; 13/53 sprockets, 4.08 Gear ratios (transmission) (1) 34/13, 2.62 (2) 29/16, 1.81 (3) 26/19, 1.37 (4) 24/23, 1.04 (5) 22/25, 0.88 (6) 20/27, 0.74

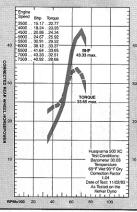
Chassis

Type Single-downtube, full-cradle, chrome-moly frame; oval-section chrome-moly swing arm Suspension, front ... Leading-axle, air-adjustable fork with 40mm tubes and 11.8 in. (300mm) of travel rear (2) gas-charged, piggyback-reservoir shock absorbers, adjustable for spring preload, producing 13.6 in. (345mm) of rear-wheel travel Brake, front Cable-actuated, doubleleading-shoe drum

Wheel, front	Nordisk
aluminum a	alloy rim
rear	Nordisk
aluminum a	alloy rim
Tire, front 3.00 x 21 Trelleborg De	ep Grip
544 Mo	tocross
rear 5.00 x 18 Trelleborg Ten-N	Masters
Motocre	oss 744
Seat height	48mm)
Ground clearance	11mm)
Footpeg ground clearance 14.1 in. (3	359mm)
Fuel capacity	(12.51)
Curb weight	
(w/one gal. gas) 250.0 lbs. (11	3.4 kg)
Test weight	6.0 kg)
Customer Service Contact	

Husqvarna Motor Corporation West

4925 Mercury Street San Diego, CA 92111 (619) 565-1414



Make and model Husqvarna	500 WR
Price suggested retail (se of 10/14/93)	\$211E

Engine

Type Two-stroke, reed-valve-inducted single-cylinder; air-cooled Bore and stroke . .86.0 x 84.0mm (3.39 x 3.31 in.) Piston displacement 488cc (29.8 cu. in.) Exhaust system . . Upswept expansion chamber with silencer and USFS-approved spark arrestor Ignition Capacitor-discharge; external-rotor

Air filtration Oiled foam element Bhp @ rpm 41.49 @ 7000

Transmission

Type Six-speed, constant-mesh, wet-clutch Primary drive Straight-cut gear; 70/39, 1.79 Final drive ... #520 chain; 13/53 sprockets, 4.08 Gear ratios (transmission) (1) 34/13, 2.62 (2) 29/16, 1.81 (3) 26/19, 1.37 (4) 24/23, 1.04 (5) 22/25, 0.88 (6) 20/27, 0.74

Chassis

Type Single-downtube, full-cradle, chrome-moly frame; oval-section chrome-moly swing arm Suspension, front ... Leading-axle, air-adjustable fork with 40mm tubes and 10.6 in. (270mm) of travel rear (2) gas-charged, piggyback-reservoir shock

absorbers, adjustable for spring preload, producing 11.8 in. (300mm) of rear-wheel travel Wheelbase 58.3 in. (1480mm) Brake, front Cable-actuated, doubleleading-shoe drum

rear Rod-actuated, singleleading-shoe drum

HUSOVARNA 500s

rear Rod-actuated, single-

leading-shoe drum

Metzeler or Dunlop K139 up front will make either Husky much more surefooted, especially over dry, hardpacked surfaces.

Although the two 500s share basic suspension designs, the components differ. Both forks are 40mm, but the WR uses shorter sliders and damping rods, therefore offering less travel than the XC-10.6 inches versus 11.8. Both carry air caps, though Husqvarna recommends running zero psi. Stiction is almost nonexistent, and the quality of travel is excellent: Husqvarna is keeping up with the times in the suspension department. One long-time Husky headache has resurfaced, howeverleaky fork seals. Despite recent Husqvarna forks proving oil-tight, both wept oil within 150 miles.

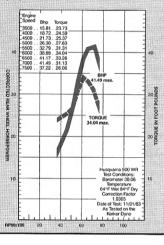
Some people discredit twin-shock rear suspension, and just to prove



Wheel, front	1.60 x 21 Nordisk
	aluminum alloy rim
rear	2.50 x 18 Nordisk
	aluminum alloy rim
Tire, front 3.00 x 21 T	relleborg Deep Grip
	544 Motocross
/ rear 5.00 x 18 Tre	lleborg Ten-Masters
	Motocross 744
Seat height	37.0 in. (940mm)
Ground clearance	12.6 in. (320mm)
Footpeg ground clearance	13.9 in. (353mm)
Fuel capacity	3.3 gal. (12.5 l)
Curb weight	
(w/one gal. gas)	254.0 lbs. (115.2 kg)
	14.0 lbs. (187.8 kg)

Customer Service Contact

Husqvarna Motor Corporation West 4925 Mercury Street San Diego, CA 92111 (619) 565-1414



them wrong the dual Ohlins setup—works as well as most single shocks. Husqvarna's rear suspension system, ITC (Immediate Track Control), uses Ohlins shocks that contain a position-sensitive damping system in addition to the usual speed sensitive damper. By incorporating this secondary system, which increases compression and rebound damping only when the shock nears full compression, the Ohlins produce progressive damping.

produce progressive damping. In actual use, this suspension system provides a plush ride through the initial portion of travel, then stiffens as the shocks begin to bottom. Although the WR and XC shocks use identical damping rates, the WR's shorter damper rod and additional internal spacer limit shock travel. These, along with the shorter swing arm, account for the difference in rear-wheel travel: 11.8 inches for the WR, 13.6 inches for the XC. The two bikes also use identical

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Husqvarnas Continued from page 19

progressive-wound springs; while this spring suits the WR well, a slightly stiffer spring would improve the XC, especially for high-speed use.

Brake systems, too, are identical: a single-leading-shoe drum rear and a double-leading-shoe drum front brake. Even a heavy dew seemed to cause previous Husky brakes to lose their power, but these new brakes are quite water resistant; normal stream crossings hardly impair stopping power. Once the brakes are fully drenched, just a short period of brake dragging brings back power, and unlike old units these suffer no permanent loss in stopping ability. Although these are the best Husqvarna brakes in history, don't mistake that to mean the best on the market today. Honda, equipping many of its off-road bikes with excellent front disc brakes, has raised the standard considerably. Improved as the Husky brakes are, they offer only average braking power and require considerable lever pressure.

Believe it or not, all 1984 models will carry plastic tanks. This departure from tradition makes sense; plastic tanks are less expensive than aluminum and weather damage much better. The new 3.3-gallon tanks are one-tenth-gallon larger than last year's. Despite the 500s' voracious appetites, the WR and XC should still provide a range of 50

miles or so. Both 500s feature upswept expansion chambers with silencers and USFS-approved spark arrestors, making them legal for use in National Forests. The silencers on our 500s blew fiberglass packing down to the arrestors' particle-trapping screens. After a while the fiberglass accumulated, choking off the muffler; if your Husky starts losing power, check the exhaust system first.

The WR includes a taillight and good 45-watt headlight; should you decide to hook up a high-wattage lighting unit, the SEM electrical system is already wired with two 70-watt lighting coils. The XC's Motoplat electrical system is wired up with a single 35-watt lighting coil; a headlight just bolts on. The WR also features an excellent VDO speedometer/odometer for enduro time keeping.

Husqvarna's custom-tailoring job doesn't come cheap. The WR, at \$3115, and the XC, at \$2995, sit well on the upper rungs of the pricing ladder. But the difference in cost between the Husqvarnas and the one-size-fits-all bikes buys something valuable. Go ahead-look at your riding terrain and decide which features suit you best. Then choose either the 500 WR or XC. You must agree: it's nice to have a choice.