1987 HUSOVARNA FOUR-STROKE MOTOCROSS

Is setting a new standard enough?



Ground swell: Water-cooling helped alleviate the Husky's overheating ills, but it also allowed the Swedish engineers to pump out more power. Good low end, steady mid-range and terrific top end can give the two-strokes fits.

Head of the class: Husqvarna's four-strokes have consistently been the best bikes the Swedish firm builds. For 1987, the rolling chassis is only mildly changed, but the water-cooled thumper's mill is wildly changed.▶

☐ MXA liked the 1986 Husqvarna 500 Four-Stroke Motocross. Although it really didn't do anything exceptionally well, it was super fun to ride. Why, you could even race it competitively—as long as you lived with its shortcomings and took advantage of the unbeatable characteristics of the four-banger's power delivery.

Four-strokes attract attention—tons of it. Everywhere the new 1987 Husqvarna Four-Stroke showed up, people would gather to poke, prod, and ask questions. "Is it fast?"... "I bet it's a pig, huh?"... "How many kicks does it take to start?"... and on and on. With all the interest this new Husqvarna was generating, we had better come up with some answers—quickly. MXA decided to reclassify its resources and come up with some hot and heavy answers to your ten most-asked questions. Or better yet, let the 1987 Husqvarna 10 Four-Stroke answer them.

QUESTION ONE: WHAT DID THEY CHANGE?

Motor: Husqvarna's 1987 503cc, overhead cam, RAL (Reed Activated Lubrication) motor has received more than the obvious watercooling updates. A slightly larger piston, nikasil cylinder, and improved head are lighter in weight and the heart of a major horsepower increase. Backing up the stronger motor are a new exhaust system (still dual pipes), a five-speed gearbox, and a new crank for quicker revs and more strength.

Suspension: Rear suspension is the same as last year's, except for the addition of zerk fittings on the shock linkage. Fork damping has been improved with new valving, springs, and five-weight oil.

Miscellaneous: The rest of the package is unchanged from 1986 (except for the hardware and plumbing necessary to accommodate the radiators).

Overall update rating: Fair. Husqvarna needs to update its chassis and componentry group to stay with the times.

QUESTION TWO: HOW MUCH DOES IT WEIGH?

Husqvarna cut an amazing 11 pounds off its already lightweight four-stroke motor of last year. Total engine weight is now 67 pounds—four pounds heavier than the Husky two-stroke 500 motor and an unbelievable 24 pounds lighter than the ATK/Rotax four-stroke motor. A Husgvarna motor in an ATK rolling chassis would hit the scales at somewhere around 231 pounds. Now that would be awesome!

WEIGHT CHART

1987 Husky 510 4-Stroke

242 lbs.

1986 Husky 500 4-Stroke

253 lbs.

1987 ATK 560

247 lbs.

Overall weight rating: Good. Husky's light four-stroke motor is offset by a bulky chassis. The poundage is still hefty for an MXer

QUESTION THREE: DOES IT START?

MXA had a hard time starting the Husky thumper. Life is easier if you follow their starting procedure of turning the idle screw in, choking, bringing it past TDC, and kicking away.



Overall starting rating: Poor. No matter how you look at it, you don't have near as much trouble starting other bikes. Husky needs to update its kickstart-lever-operated automatic compression release. As it sits, it's bogus.

QUESTION FOUR: WHAT'S THE POWER LIKE?

For usable horsepower, Husqvarna is running down the right track. It pulls strong and way low off the bottom, runs through a punchy mid-range, and revs way out to a long top end. A big improvement over last year's mill (which only revved), plus it doesn't overheat and slow down—thanks to watercooling.

Overall power rating: Excellent. It's still overshadowed by the ATK's monster motor, but the Husky 510cc engine (the ATK is a 560cc) runs so well, it's hard to fault.

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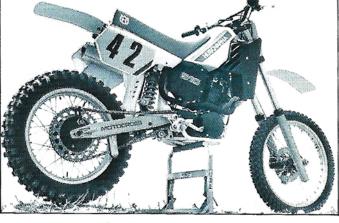
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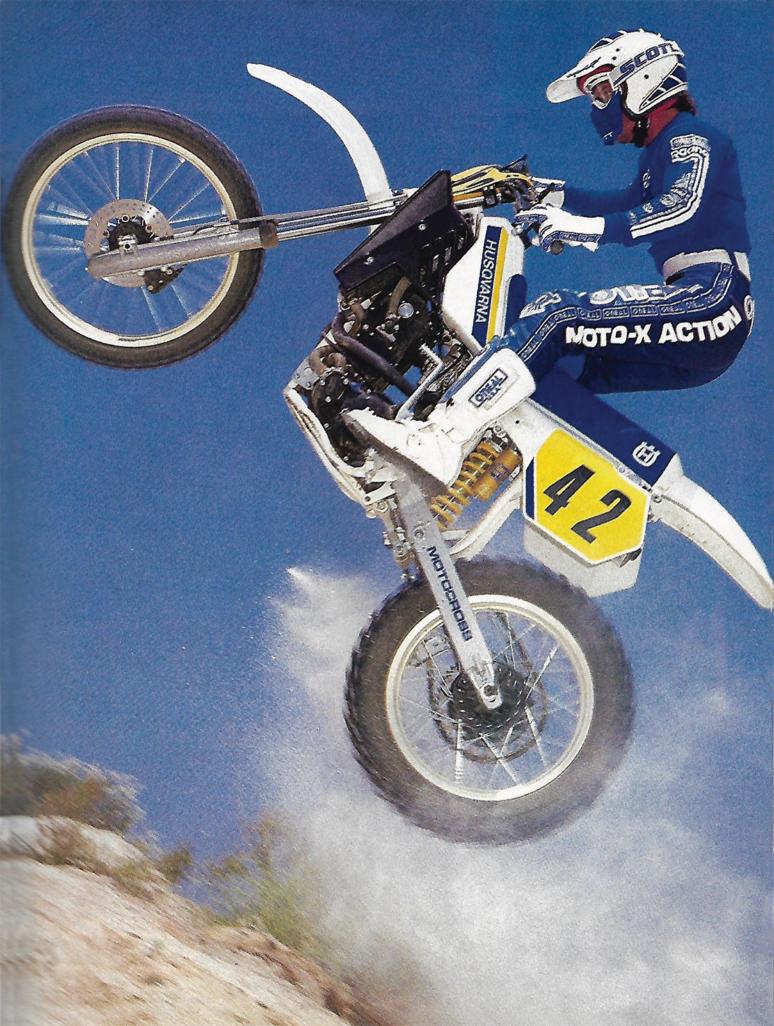
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Overall holeshot rating: Good. In a headto-head, full-horsepower situation (sand or loose dirt), two-strokes still rule, but the fourbanger makes less demands—less clutch, less shifting and equal speed.

QUESTION SIX: CAN YOU CONTROL IT?

Husqvarna's 1987 510 Four-Stroke understeers. Badly. To make matters worse, the softly sprung front end dives drastically, stuffing the front end. With the front end wallowing, the tall chassis lifts up and pops out of the corner. All bad and evil handling traits. Straight-line stability is fair.

Overall handling rating: Poor. It's time for a major chassis update. Lower, quicker, and more predictable. This chassis flexes way too much with the four-stroke motor.

QUESTION SEVEN: WILL IT BEAT YOU TO DEATH?

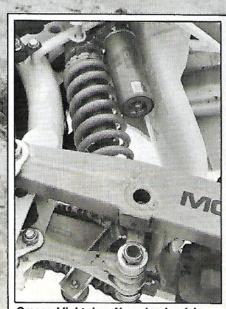
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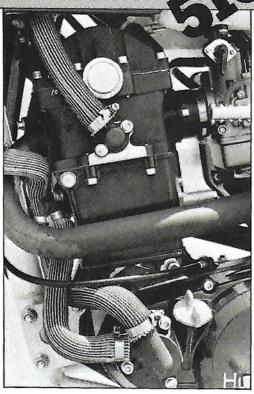
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Marquis de Sade: These were good forks about four years ago, but the added power, height and demands of a racing four-stroke quickly turn these 40mm toothpicks into pieces of twisted, clanking metal.



Greased lightning: New shock valving, zerk fittings, sealed bearings and a strengthened swingarm hold up the rear end. Overall suspension capabilities are ruined by the front forks no matter how well the rear shock works.



Simplified: By mating the four-stroke top end to a two-stroke lower end, Husky was able to do what Honda, Yamaha, KTM and Rotax have failed to do—build a lightweight four-banger.

moonlighter fix is ten-weight oil and 21-pound ATK springs with no preload.

Overall suspension rating: Fair. Husky needs to update its forks by replacing them with something real. Sometimes it's impossible to cover up a blemish like the Swedish Husqvarna forks, regardless of how well the rear suspension might work.

QUESTION EIGHT: OUT OF CONTROL, OR...?

How are the controls? The rear brake is strong and progressive. Brembo disc components barely get the job done up front. It takes two strong fingers to get any real stopping power. Shifting is on the stiff side. Don't clutch the bike like a two-stroke. You will waste the clutch, plus it's not necessary to abuse the clutch on a thumper. Ergonomics are bad. A skyscraper layout, hard-to-use Magura levers, and awkward bars need improving.

Overall control rating: Fair. A durable clutch and stronger front brake would be welcomed.

QUESTION NINE: IS IT RELIABLE?

Not unless you keep a close eye on the airbox. Every single-shock Husky thumper we have tested has sucked dirt. The filter and airbox are too small and restrictive. Make sure you service it often and grease the sealing edges well. Frames, gear boxes, and miscellaneous quality-control difficulties

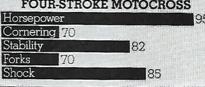
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Yes. Once you analyze and prepare for the strange handling traits and wandering, flexy-flier front end, positive results can be had. We race it competitively, and feel that an aggressive local pro can win on some tracks. It is a fun motor to race, the Husqvarna thumper delivers smooth, tractable, competitive and well-thought-out power. Just the right combination of grunt and comph.

Bottom line: If you want the most advanced four-stroke motor around and you don't mind the archaic traits of the Husky chassis or spending a little money to improve the front suspension, the Husky 510 has a lot to offer. The total package is light-years ahead of the Japanese enduro thumpers—even with its flaws. The Swedish motor is worth the price of admission by itself. The Husqvarna 510 Four-stroke is the best bike in the Scandinavian lineup.





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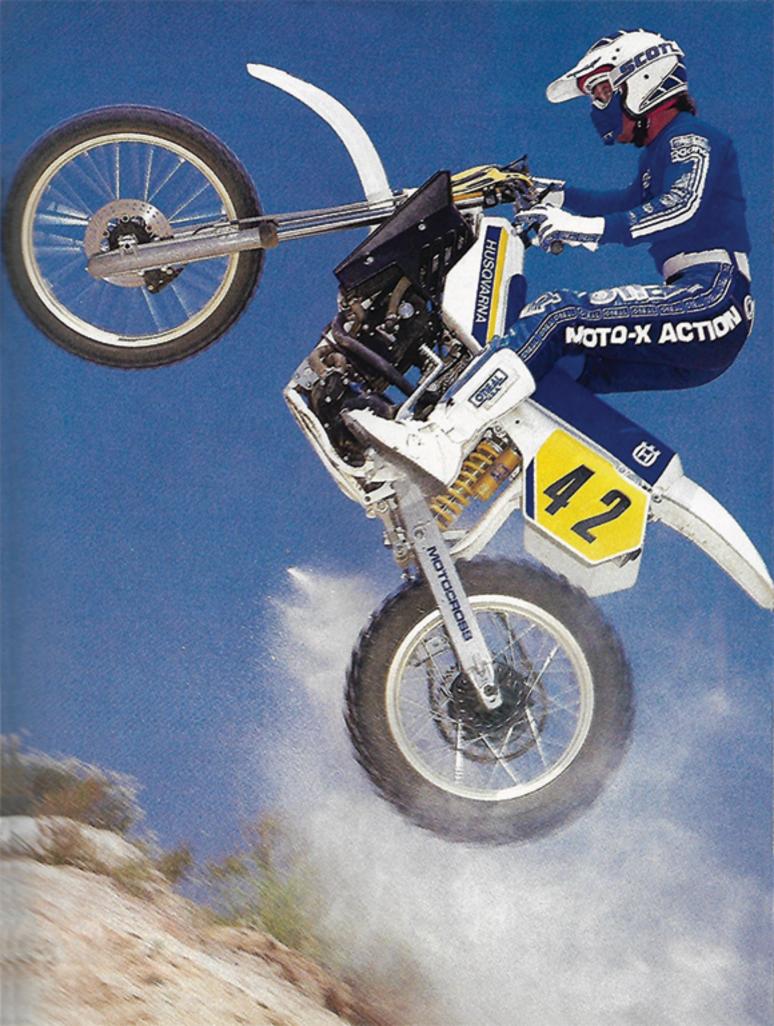
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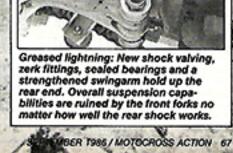
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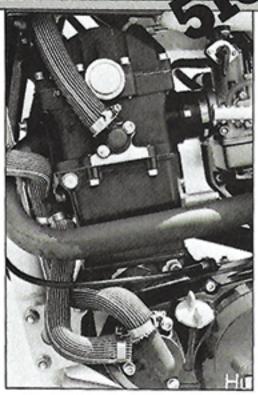


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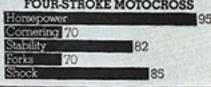
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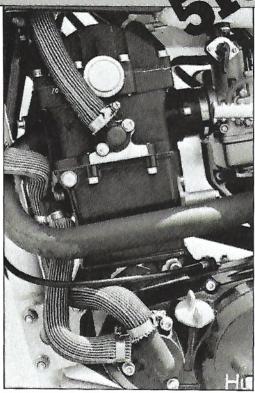
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