

A Flash Of Finesse In A Contest Of Magnum Force







Making time hat oss es CHASSIS

Frame

		bru the	ough the ish is wh 400 Cro untry do st.
umberFrame:	2053 0121	Horsepower/rpm	

Serial nu

Horsepower	
(measured).	36.8 @ 7000 rpm
Torque/rpm	
(measured).	27.6 @ 6500 rpm
Carburetion	38mm Mikuni
Exhaust	Single steel expansion
	chamber into aluminum
	silencer/spark arrestor
Ignition	Motoplat
	internal rotor CDI
Lubrication.	Premix
	(32:1 recommended)
Air filtration	Oiled polyurethane
	foam element

DRIVE TRAIN	
Transmission	Six-speed
Primary drive	2.300:1 (gear)
Final drive	3.470:1 (15/52)
Gear ratios (inter	nal)1st 2.615:1
	2nd 1.813:1
	3rd 1.368:1

ENGINE HORSEPOWER/TORQUE

.82.5 x 74mm

Bore x stroke

Compression ratio

	80	8P 350 400 450 500	00 12.3 00 16.8 00 18.1 00 19.8		2.0 1.1	
	60	600 650 700 750 800	00 29.2 00 34.2 00 36.8 00 35.5	2	5.6 7.6 7.6 4.9	
HORSEPOWER	40			^		
CORRECTED REAR WHEEL HORSEPOWER TORQUE IN POUNDS/FEET	20		- /		HP (36	
	Mx1	20 4	10 6	50	80	100

split into full cradle
Rake/trail27°/4.7 in.
Front suspensionHusqvarna
leading-axle air/spring fork,
40mm stanchion tubes,
11.8 in. travel (claimed)
Rear SuspensionHusqvarna
single-shock system with
Ohlins piggyback reservoir
gas/oil shock,
10-position adjustable
compression damping,
14-position adjustable
rebound damping, infinitely variable preload,
14.0 in travel (claimed)
14.0 in. travel (claimed) Brakes Front—Brembo
single-piston caliper disc
Rear-Single-leading shoe drum
WheelsFront-1.60-21 Nordisk
WheelsFront-1.60-21 Nordisk Rear-2.50-18 Nordisk
TiresFront-3.00-21
Metzeler MXR
Metzeler MXR Rear—4.50-18
Metzeler Multi-Cross
MEASUREMENTS
Weight (wet, no fuel)235 lb. Weight (wet, tank full)256 lb.
Weight distribution108/127.5 lb.
Weight distribution108/12/.5 lb.
(47/53%)(Fr/rr, wet, no fuel) Weight distribution125/131 lb.
(48/52%)(Fr/rr, wet, tank full)
Wheelbase59.0 in.
Fuel capacity3.5 gal.
Reserve capacityNo reserve
Sound test103 dbA
Ground clearance14.4 in.
Seat height38.2 in.
Ground clearance 14.4 in. Seat height 38.2 in. Swingarm length 22.5 in.
Seat height
Seat height
Swingarm length

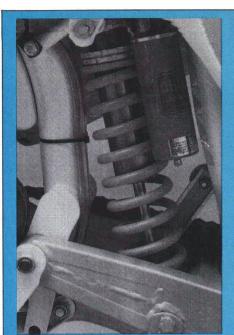
\$83.00

\$99.95

Lighting kit

4th 1.645:1 5th 0.880:1 6th 0.741:1

Steel, single downtube



Shock linkage provides massive wheel travel and should be more durable with maintenance.

Past Husqvarna models have changed relatively little from year to year. However, in the case of the '86 400 Cross Country, what looks like a new model simply cobbled together from existing parts really has some intelligent changes.

In fact, the plastic parts are some of the only items that are unchanged from '85. The unusual single-tube, giant backbone chrome-moly frame is essentially the same in material and geometry but features a removable rear-frame section to aid in repairing crash damage and adjusting the shock.

The piggyback-reservoir Ohlins shock is a rerun, but the damping specs are new and were arrived at by testing in the U.S. with American riders. The linkage arms are better sealed against the elements this year as well and feature zerk fittings for the first time.

There are still 10 clicks of compression damping and 14 clicks of rebound damping on the shock, but the optional stiff spring used in '85 is the standard spring this year-a much needed change. (In '85, we had to install stiffer springs on the rear of every Husky we tested.)

Husqvarna spent even more time developing the fork. They still manufacture it themselves, using 40mm inner fork tubes. The best part of owning a Husky fork has always been its ease of maintenance, and it still disassembles via one 13mm bolt at the bottom of the fork leg.

Internally, there are now two Teflon bushings instead of one for the

ike all the new 400 engines from Husqvarna, the 400 Cross Country has a superbly smooth powerband and torque curve. At all but the lowest rpm the Cross Country made more than 20 foot-pounds of torque. This bike had the least horsepower of the three 400 engines we have had on the Kerker dyno. The engine should be identical to the 400WRX we tested last year. The only difference seems to be the muffler/spark arrestor. The 400WRX used a larger, round silencer spark arrestor, but the 400 Cross Country has an oval aluminum muffler with a much smaller cross-section. It must require a smaller spark arrestor core as well, and that core is probably more restrictive—restrictive enough to cause the power loss. Our 400WRX made more than 40 horsepower and the Cross Country made 36.8 at 7000 rpm. The bike was more responsive with an Answer oval spark arrestor silencer from Husky Products, but we didn't get the bike back on the dyno with it.



Removing plastic parts reveals the large air cleaner, lighting coil CDI and small radiators.

Non-floating, quick-change rear brake was trouble-free.



fork's outer tube to slide on. Just above the bottom bushing is a valley machined in the fork's inner tube to help break the hydraulic stickiness that forms when oil gets trapped between the two smooth, closely machined surfaces. Also, the internal machining of the parts appears to be more carefully finished than before. The new fork is further distinguished from the older unit by the absence of paint on the fork's outer sliders.

Husqvarna made no changes to the engine, and being so universally acclaimed, we wouldn't expect them to. The 400s have proven themselves highly reliable and competent performers. The engine has a lighting coil CDI (though no lights are supplied) and a six-speed, wide-ratio transmission.

The Cross Country's wheels have not changed from the '85 XC and CR, and the same Brembo cast-iron disc is used as well. Metzeler still supplies the tires, but the front is now a MXR instead of a Motocross. As expected, the tires wore well and worked well, and we had no flats.

While the disc brake is unchanged, a new, smaller, square master cylinder is used. In addition to being less vulnerable to crash damage, it stops the bike better and has a more solid feel at the lever.

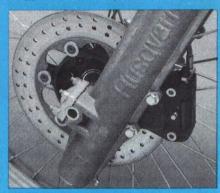
A welcome and long overdue change are new exhaust pipe mounts. No more torn rubber, no more broken metal band or spring mounts and far less vibration are the benefits of the new mounts. Thanks, Husky.

Now, about those fork springs....



Husky left the engine unchanged, but pipe tucks in well and there is a new shift lever

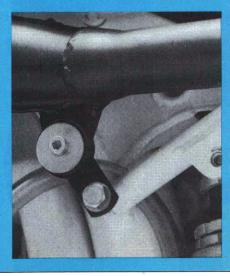
We found the front disc brake stopped well but required a firm pull.





Square aluminum brake reservior replaces plastic, round one of '85.

New vibration-damping pipe mounts keep vibes away from rider.





If you are Mike Bell, even a tallish Husky looks fairly small.

Husky's long-legged six-speed 500 in the desert? We don't think so-at least not completely-and neither does Husky, since both models are offered. However, the 400 Cross Country is certainly a good alternative for most desert racers and trail riders. All our staff members except Bob Carpenter feel the 400 is the better mount for racing. Bob, a former single-digit desert expert, is better able to use the power of the bigger engine. For riders who can and will use all the power of the 500, the bigger bore is the better way to go.

For the rest of us, how does the 400 Cross Country measure up? From a performance standpoint, the 400 is not far removed from the 1985 400WRX Husky, since the technical differences are limited to a disc brake and more rear-wheel travel.

The 400 Cross Country runs essentially like an enduro bike with long travel suspension. The 400 engine should win new friends on the starting line of races that have dead engine starts; for an Open classer, it fires readily with a light kick. Carburetion on our bike was clean for a Husqvarna-as on all the 400 enduro models we have tested.

There have been no port changes since the inception of the 400 engine, but the power was smoother on the single-shock 400s than on our original 400WR test bike. The only difference has to be the pipe. Power output is best described as electrically smooth. The dyno shows that the power curve flattens out in the midrange, though performance is good at high and low rpm.

That flat spot, a heavy flywheel and too-tall gearing makes the bike a bit lazy as it begins a new gear. It seems sluggish and slow when you first ride it, but put a few miles on the bike and you learn to rev the engine just a bit longer in each gear. You need to treat it more like a torquey 250 than a small Open bike to let it catch that next gear with authority. After you have the engine figured out, you'll realize that it also pulls well down low.

Our Cross Country test bike was slower than the 400WRX we tested. The WRX made a full 40 horsepower on the dyno, and the Cross Country couldn't quite make 37. The 400WRX used a round steel muffler with a spark arrestor while the Cross Country uses the

new Husky oval aluminum muffler and spark arrestor. Either the new muffler is more restrictive or our bike just wasn't a fast one.

An Answer oval Equalizer muffler, add-on spark arrestor and two teeth added to the rear sprocket wake the bike up while still allowing a full 85plus mph.

Once you close the gaps in the wideratio, six-speed transmission with the larger rear sprocket, the Cross Country is ready to motivate. Fortunately, the chassis takes far less getting used to than the engine. The bike is stable; it slides and steers well both at high speed and on rough downhills. Even in snow, the Husky keeps its front end where it should be.

We took the 400 out on a flat, slick motocross course with no berms and, even though the bike was completely out of its element, we liked the way it handled. The rear suspension comes well-damped and sprung this year, unlike the '85 single-shock Swedes. There also seems to be better control over the rear wheel.

But the news about the new fork is not as good. For big landings or whoops, the fork is smoother than previous Husky forks; however, the new one is undersprung and works poorly on downhills and in rough whoops. Also, it takes all kinds of hits well except sharp, sudden blows-as when you hit desert-issue rocks at high speed. The fork on our test bike could handle a rock field well but made a loud clank and jumped in the air if it encountered an unexpected rock. We know the older Husqyarna fork can work, so we should be able to get this one up to scratch. Our first move will be to check the internals of the fork, then go to 21 lb./in. ATK fork springs.

Although we may criticize the details, we found the Husky a pleasure to ride in many ways. The handling is excellent, and the rider has plenty of room to move around. We put in many miles of desert riding and a tough, snowy enduro, where we heaped abuse on the clutch. The 400 Cross Country came away unscathed. The clutch has a very light pull for an Open bike, regardless of country of origin. One bolt came loose, but then, we never checked the bike or tightened loose fasteners, either. Nothing broke, the bike did not vibrate too much and we never broke any exhaust pipe mounts.

It's too bad the details of the bike didn't come together better, especially since the machine is premium priced. Nevertheless, this is the most troublefree and dependable Husky we've tested. Despite its blemishes, the 400 Cross Country is Dirt Rider's cross-country mount of choice.

This is one bike that encourages just



I've thoroughly enjoyed every 400cc Husqvarna I've tested, and the Cross Country with its desert suspension seemed just the ticket for the riding I

However, I was quite disappointed at first: The gearbox seemed to have gaps insurmountable for the engine, and the suspension was both harsh and too soft. But turning up the rear spring preload, installing stiffer fork springs, changing the spark arrestor and slightly lowering the gearing turned the bike into what I had hoped it would be. I liked it enough to change my entry to the Open class-I always used to ride a 250 if I had a choice-for the Barstow-to-Vegas classic hare and hound.

I like the bike: I just wish more of the work had been done for me at the factory.

-Karel Kramer

Age/Ht./Wt.: 30/6'1"/180 lb. Motorcycle(s) currently raced/ridden: Honda CR500R, Husqvarna 510TX, Yamaha YZ250N Riding ability: B enduro rider

I expected a whole lot more of the Husky 400 Cross Country than the bike delivered, even after a thorough test. Oh, sure, 93 tough miles in the Bad Mountain Enduro did help me get to know the 400 more intimately (pushing a bike 75 percent of the way up an icy bottleneck hill will do that), but the problems still exist. I'm supremely disappointed with the fork. After all the work and technical changes Husqvarna went through, I expected the fork be at least a little bit better. The 400 engine is not as torquey as the 400WR engine we last tested. It needs to be revved more and the gear spacing is too wide. Oh, well. -Bob Carpenter

Age/Ht./Wt.: 25/5'9"/190 lb. Motorcycle(s) currently raced/ridden: Honda CR500R Riding ability: Expert

HUSKY'S "PROOF 2-000" PROJECT BIKE
Husqvarna Motorcyklar AB constructed this twin-cylinder, 800cc
liquid-cooled two-stroke project bike "to test some new concepts in
design, performance and styling." The triple-disc-equipped, 302-pound,
six-speed bike reportedly is easy to ride off-road despite its incredible power delivery. Husqvarna has no plans to produce the bike at present.

