









WARNING: Much of the action depicted in this magazine is potentially dangerous. Virtually all of the riders seen in our photos are experienced experts or professionals. Do not attempt to duplicate any stunts that are beyond your own capabilities. Always wear the appropriate safety gear. Dirt Bike does all of its testing and photography legally on public land, or private land with permission from the owner(s), and we abide by the local laws concerning vehicle registration and muffler/spark arrester requirements. We are not responsible for quality of aftermarket accessories we use.

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BIG BANG THEORY

Better living through horsepower

By the DIRT BIKE Staff

There are lots of reasons to ride a 500 in motocross. For instance: you might weigh more than a boxcar full of lead bars. Or your favorite track might have gnarly uphills and no downhills all the way around (a geological oddity, to say the least). Or you might get some sick thrill by pulling the holeshot and simply murdering the rest of the pack with roost before they can pass you. The truth is, though, there aren't many good reasons to race a 500 in motocross. They have a reputation for exacting an awful lot of work to go no faster. The classes are small, and Open bikes cost more and sell for less when you're done.

Still, we can think of one really good reason for riding a 500: the '91 Honda CR500R. See, in the past, Honda has worked really

Some riders claim that the '90 and '91 CR500Rs don't have enough power, that they're slow compared to earlier CRs. Of course, some riders eat broken glass just for fun.

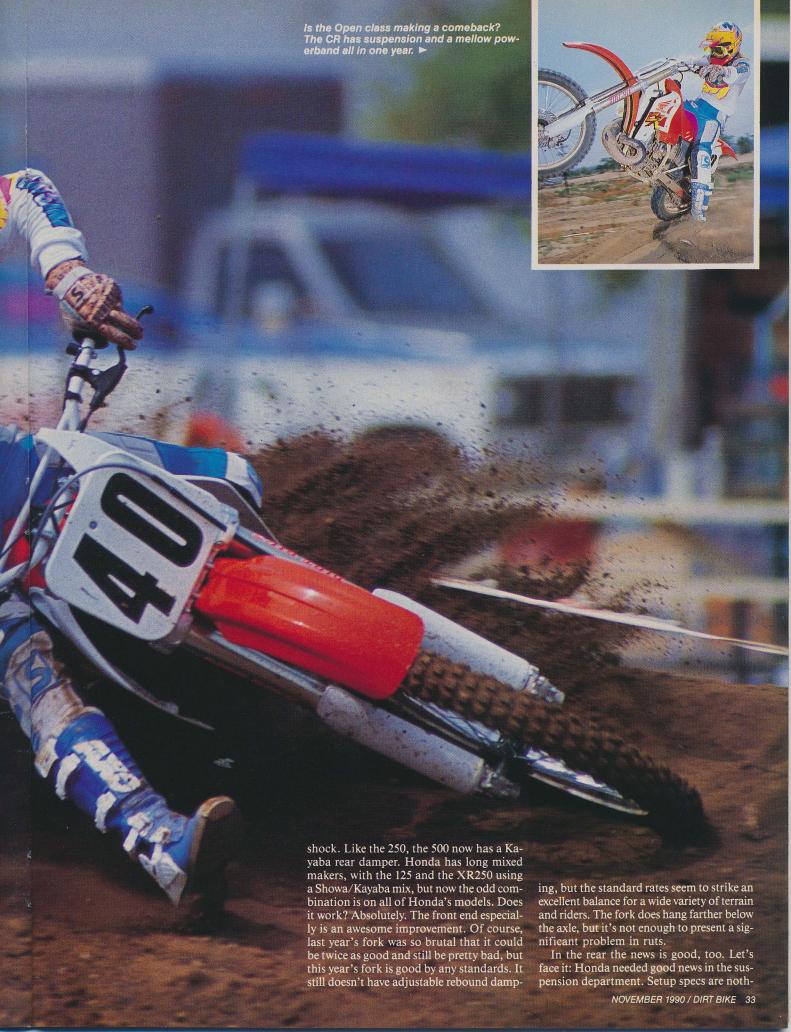
hard to make the big CR's powerband usable, but in the years when the engine wasn't murderous, the suspension was. Now, for the first time, Honda has both engine and suspension dialed in the same year.

THE LAND OF OPPORTUNITY

This year might well be the year of the CR500R. Kawasaki chose to leave the KX500 mostly unchanged, yet the CR got everything Honda had on the drawing board. The suspension, especially, is completely different. The fork remains a Showa, but now the

springs are positioned over the cartridges, whereas old Showas had the cartridges inside the springs, which led to oil contamination as the springs rubbed against the aluminum parts. The new cartridges are larger in diameter and, despite that, Honda says the fork, overall, is lighter.

In back, the CR gets the revised linkage ratio that was new on the 250 last year. Those links now have thrust washers on either side that are claimed to reduce friction by 50 percent. The big news, however, is the





ing unusual. For 170-pound pro Pete Murray, the CR was dialed to the typical 100mm of sag and the rebound was set at nine clicks out with the compression screw at 11 clicks. We tested at Perris Raceway's choppy sand course and DeAnza's hard adobe, and finding faults was difficult in either environment. Honda suspension that works . . . what a concept!

BUT IT'S STILL A 500, RIGHT?

Okay, if you've been around long enough to know a kidney belt from a kidney bean, then you know that a 500 is going to be more work than a 250 or 125, no matter how good the suspension is. The truth is that the new CR is still a brute, but it's a brute with manners. Last year Honda pulled its claws and made it smooth and mellow—it's just that no one noticed because the suspension was so flawed. Now that that problem has been fixed, it's apparent just how mellow the motor is. The only real differences this year are a different combustion chamber shape (taller and narrower) and a carburetor change that allows the slide to seal more securely when the throttle is shut. So the motor is pretty much as it was last year-very smooth. The power still hangs out in the lower part of the rpm range (Honda's Open-classers have always been short-shifters). If you rev the CR too high it just vibrates and doesn't really go anywhere but, even at the bottom, the horsepower doesn't hit with a sudden, intimidating burst like the big CRs of the past. It climbs on to the powerband gradually. That's a good thing, because there's an awSeat height Tire size and type: 80/100 x 21 Dunlop K490 Front 110/100 x 18 Dunlop K695 Rear Showa, inverted cartridge, adj reb./comp., 12.0 in. travel Pro Link, Kayaba, aluminum piggyback, adj. reb./comp., 12.8 in. travel Country of origin Suggested retail price Distributor/manufacturer: American Honda 100 W. Alondra Blvd. Gardena, CA 90247 PARTS REPLACEMENT COST Piston \$54.44 Ring Clutch plate (drive) 6.18 Clutch plate(f) .6.26 Front sprocket 19.80 Front brake pads Rear brake pads

ful lot of power to climb on to. The Honda is still a 500, and you had better be sure you are pointed where you want to go when you pull the trigger.

There are riders (pros, mostly), though, who miss the old low-end hit. You can spot them at the track—they're the ones hitting the clutch coming out of the turns. For most riders, however, mellower is better.

The truth is that the smoother a bike's power output is, the better it handles—and the CR is a very good-handling bike. No other Open bike made turns as easily as the Honda. Part of that is due to the power, part just because Hondas turn—always have.

Picking a line is as easy as pointing. This year, Honda reduced the rake by a half-degree, decreased the trail slightly and moved the steering head down and back to get a little more weight on the front end for even better turning. In theory, that should make the Honda less stable at speed, but there was little to no headshake for any of our test riders. You can probably credit the fork for that.

REMEMBER THE 1990 250?

Almost everything else that's new on the CR500 is the same stuff that came out on the 250 last year. The airbox is the new, narrow style, and the side number plates and rear fender are integrated. Then there are those white radiator shrouds and bold new graphics. We can get used to the look, but we were disappointed to see the return of the sticker. Last year's 500 had radiator shrouds with the logo actually in the plastic. It was trick; the sticker didn't wind up on your pants after a couple of laps. This year it's back to old-world decal technology. Honda claims the other process was just too expensive.

Bad decals or not, though, the CR500R is an awesome motorcycle. It gives you Openclass horsepower in a machine that doesn't demand much in return. It gives you a realistic alternative to 125s and 250s. It gives you a complete package, one with usable engine and workable suspension.

Even if all that doesn't mean anything, you can still pull a holeshot and roost everyone to death before you get passed. □

