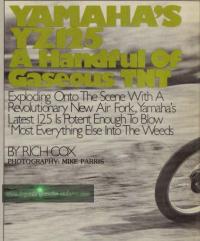
hose forks with the funny-looking air cans on top lists appeared on the funny-looking air cans on top lists appeared on the funny-looking air cans and the funny-look air can air can

It wasn't simply the occurrence of the air fork that amazed us, it was the speed with which Yamaha transmitted it to they productionline machines It you'll recall, we tested the Y225C in the August 7's soue, at that you was the August 7's soue, at the Y225C, it you'll present that a your later comes this true-76 model. Designated the Y225X, It Sports the latest factory

sections by you who bought last years YZ may be really bent, and those who were reluctant to buy will be glad they warled. There's no comparison between the two bikes. We were expecting the forks to be the only real improvement, but I waant made a few phone calls that we real-zed overall appearance was the only expect site common to both.

This latest version is taller, longer, has softer rear suspension, increased rear wheel travel, a few changes both inside and outside the engine, and a few improvements to increase

its reliability. All of Yamaha's latest YZ MXers—from the 125 up—come standard with the new air/oil forks. Although they look like a funer's nightmare, they're really simple places of technology Each leg consiste of a damper value assembly, a quantity of oil and two pressurized air chambers that are







Far left: Latest barrel features a raised exhaust nort and change in port timing. A cast steel itner is pressed into the castaluminum cylinder: It can be reboted. Left: Tool kit contains bare minimums Owner's manual contains lots of info on the new air/oil forks. Note inwiring the air accumulators. Right: It takes aswift kick to get the little beast started, as each kick turns the crank only one and a quarter times. Beefed up clutch and forged steel footpe gs are new. Far right: Flat rear sprocket replaces last year's dished type. Larger 520 chain and tensioner eliminates all chain problems.

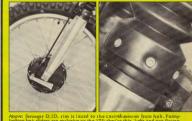




# You'll Find Yourself Diving Deeper And Braking Harder 'Cuz' The Front End Doesn't Monkey Around . . .



Above: Standing long and tall like its bigger brothers, the 125 is a thoroughbred racer from head to tall. When adding gas you'll notice the gas cap washer doesn't fall off now. Left: With the increased wheelbase and smoother power, the VZ wheelies only on the rider's command.



Above: Stronger D. I.D. rim is laced to the cast-aluminum front hub. Funnylooking fork sliders are exclusive on the 125: they're thin. light and non-flexing Bridgestone tire improves streeting. Right: Tick little wire meshed vents a sit the bottom of each boot serve two functions: they let the boot breathe and also act as ting air filters.



During our riding sessions at Indian Dunes Motorcycle Park, we gave it a thorough water test and found the YZ positively waterproof-the rider wasn't,

regulated by those goofy-looking cans called accumulators. The first few inches of travel are controlled by the air pressure in the first chamber and can be varied anywhere from 22 to 35 pounds. The remaining inches of travel are controlled by the second chamber-the high-pressure chamber. Its filling valve is located on top of the accumulator and will hold from 45 to 71 pounds. By adding or subtracting air in both chambers, and by using varying quantitles and viscosl ties of oil, you can make the fork almost infinitely adjustable If you're curious about tuning and maintaining them, check the complete technical piece we've included in this issue

The 125 uses the same 36mm stanchion tubes as the 250 and 400. but there is an entirely different aet of aliders stuck on the bottom-it looks almost as if somebody forgot to run them through the lathe. They look heavy but Yamaha swears they're ten-percent lighter than the

250/400

If you push up and down on the forks, you find they're smooth-acting and totally free of resistance. They solved the stiction problem by going to a new type seal that tits more loosely around the tube, but still maintains a leak-free seal. They've even gone so far as to place tricklooking little vents around the bottom of each fork boot-now that's looking

Yamaha obviously kept this new tork under tight wraps before springing it on the public because it works perfectly. The forks are like floating on cloud nme-they flat work! You know those braking bumps that about tear the barsfrom your hands? No sweat The forks soak them up without the faintest indication of compressing up or shimmying from side to side. You'll find yourself day ing deeper into corners and braking harder herouse the front end doesn't monkey around. And, at last we have found a pair of nonflexing forkal Even coming off jumps a bit sideways isn't good enough reason to slow down-the blke lands soft, the While we're up front you'll be glad to see that a Bridgestone 3 00x21 has replaced the skating Duniop tire With its deeper and sharper knobs it makes the front track a lot better and does away with the wash-out willies Rumor has it that the rear Dunlon might soon be on the way out too Daido in Japan makes two types of alloy rims: the early YZs had the cheaper shiny ones while this latest model has the dull-finished rims which are a little heavier but a lot stronger Only one wrenching session on the spokes was needed throughout the test period

Dwarfing the rear of the engine is a huge 34mm Mikuni that makes the old black 30mm look like a tinker toy on your '75 model and having it carburet right, better hold off. There are more changes to this engine than meet the eve Port timing has been changed with the exhaust port being raised slightly and even though the pipe looks identical to last year's, Yamaha claims it has been improved We couldn't find gut to what extent In an effortto get more usable power where it's needed, the ignition sports curve; it now advances the spark more in the midrange and tapers off more at the top. It works too The 125s aren't noted for having a nower





Above: Chain sensioners are new to all YZs. It's one of few tensioners we've seen that doesn't tear up the chain. Keep everything lubed and adjusted and you shouldn't haveany problems. Right: Airfilter arrangement hasn't changed: they're still using a pair of those fuzzy elements. They're harder to clean but do a goud job of keeping water oul.



Big 34mm Mukunl Increases mid-range torque considerably. Engine is less explosive and makes more usable power. Big carb will work on early models with a larger air-box outlet

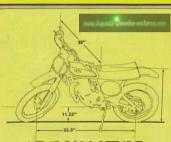






Left Low pressure value is on the side while the high pressure valve is up top protected by nifty rubber caps. Ours came to us pressurized with 22 pounds in the lower chamber and 40 pounds in the upper one. Center: Handlebars on the extra heavy frame gusseting throughout.

125 are offset to clear the accumulators; this sets the bars back an additional inch which may or may not affect your riding style. Right: Additional weight can be attributed to



### PURAHA YZ125

TEST BIKE: YAMA	
Engine Serial	002532
Base Price	\$1019
ENGINE	
Type Two-str	oke, seven port
	air-cooled single
Displacement	123cc
Bore and Stroke	56×50mm
Compression Ratio	
Lubrication Type	Mixed gas 20 1
Carburetor	34mm Mikun
Air Filter	Oiled toam
Ignition Type	CDI magneto
Starting	Primary kick
DRIVETRAIN	
	teel cons 2 222

1st 31 403 3rd 19 244, 4th 16082 5th 14 138, 6th 12 933 Wet multiple disc Final Drive Ratio 520 chain 3 833

1 84001	40/15
CHASSIS &	SUSPENSION Tubular steel, double
Frame	cradle
Caster/Trail	59
Suspension.	5.51 inches
Front	Yelesconic torks
	7elescopic forks, 7.68 inches travel
Rear	Monocross
	7 68 inches travel
Brakes	

Rear 3.00x21 Bridgestone 4 10x18 Dunloo Aim Locks. Front/Rear

WEIGHTS & CAPACITIES Weight, wet, unladen 207 pounds Fuel Tank Capacity 1.5 gallons

The YZ was one of the most exciting even up and down the river

band other than wide-open. The new YZ is an exception to the rule and will actually pull down low considerably better than most other 125s. Apparently there were some ignition tailures in last year's bike that were traced back to a pulsar piece. The pulsar sendsthe signals to the magic box and on occasions it refused to cooperate, so Yemaha simplified the entire ignition by doing away with it. The magneto side cover has changed its shape since '75 and they

went back to a primary sprocket covwheel hubs are aluminum with the In an effort to increase reliability

Yamaha finally went to the larger 520 chain However, the way it was previously geared it wouldn't have lit between the primary sprocket and the engine case. To remedy this Yamaha changed both the primary and sec (74/19 teeth) had a ratio of 3 894 while this new version has 71/22 teeth for a ratio of 3 227 The primary countershaft sprocket has gone down from 14 to 12 teeth while the rear sprocket gains only one tooth and now totals 46 Both changes pretty much cancel each other out with the overall drive ratios being slightly higher

Each time we rode the bike at the



bikes we ever tested. It was a total blast

track we tried to pair off with other 125s (especially last year's YZ) to see if there is any performance increase Just off the cuff we don't but we do think It's quicker We raced one YZ (supposedly stock) in a drag race using all six gears and it walked away from us. But on the track ours always got to the next corner first In fact, there wasn't a 125 through the entire test period that could beat it from corner to corner The engine has lamed down a lot and even though it's one of the strongest putlers on the top end. it's not as explosive as it used to be It'll even pull a little through tha mldrange without loading up or totally signing out: this means it's a little more forgiving in the shifting department and generally just easier to ride If you want to really get it on, wind it up around 10,000 rpm. start grabbing gears, and hold on tightbecause you' re goig places. Wa found downstrifting once in the long sweepers was anough to keep the engine on the pipe, while the tighter turns required going down two gears. The gearbox shifts flawlessly up and down, with or without the clutch

The super-stiff "go-fast" rear susalong with the "hot dogs" who thought that was the hot set up. The early model would stay straight through the rough stuff but it'd beat you to death doing it. The bike really got scary when you backed off the throttle or braked for a turn if your weight was just a little bit forward and you hit one of those squarad-off potholes or braking bumps, the back end would kick way up and you'd be riding on the front wheel I should know I endowed that last test bike exactly the same way. This latest vergetting more extension on the shock Yamaha has managed to increase 7 88 inches They've cut down the preload on the spring, making the entire suspension a tot softer and more compatible to the average racer Five different springs with varying rates are available so there's no reason why the suspension can't be perfectly matched to the weight of the rider They've also improved the by increasing the oil capacity by 40cc and enlarging the nitrogen volume. Nitrogen pressure Inside re-

mains unchanged This isn't a kid's bike anymore. In fact, if it keeps going the way it has it will be mistaken for a 250 in a year or two The added rear wheel travel has once again made it taller from 33.5 to 35 inches. With the addition of a 30mm-longer swing arm, the wheelbase has also increased from 53 5 to 555 inches. Unlike the 400's swing arm which pivots on caged needle bearings, the 125 still uses plan bushings; however, it does feaboys have And unlike tha larger

continued on page 84

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#### VAMAHA'S V7125

continued from page 23

YZs that are now fitted with roundtubed swing arms that are lighter and stronger, the 125 still uses the rectangular stock that originated with the bike. They couldn't give us a really valid reason for doing so. Totally new tor, YZ fix a shring-load-

ed chain tensioner mounted on the swing arm. With all that wheel travel it was needed to keep the chain in line and it does a good lob too. The only problem is it tends to make you lorget to make chain adjustment. We didn't notice the cham was loose until it started making noise rubbing against the swing arm pivot. To correctly adjust the chain takes two people, one to sit on the blke and the other to do the adjustment. Once the chain tensioner is pulled down out of the way, set the axle adjusters until the drive chain. This measurement should be taken at the bottom of the chain at a point midway between the drive sprocket and the rear axle

Even though the bike steers a lot better with the new front tire, the tastest way around the race track is still obtained from using every berm available and keeping speed up whenever possible. The bike's perfectly balanced and doesn't require a whole lot of body movement to keep both ends sticking. What amazed us was by exercising a little bit of throttle control we could stay away from uncontrolled slides and time-wasting wheelspin One reason it's quicker is because it doesn't pull unnecessary wheelies anymore. With the longer wheelbase it gets the front wheel just light enough to titt it only when you want it to. Can't bitch at all about the brakes They've got an unusually good sense of touch and didn't cause any unwanted lock-ups or alides. All the pedals are located in the right position and after a halfhour on the bike, everything seems to mesh into one smooth unit

It seems that if you want long-trapel suspension and reflability, you have to pay for it in the weight department. Lest year's bike weighed in at 193 pounds wet and this year it ballooned another 14 pounds, bringing it upto 207 ready to go. Some of that increase is in the rins, some is in the suspension, and a whole ing throughout the bike. However, it doesn't affect the handling—it is still light, nimble and fast

In all we had a lantastic time with the bike. We had very few problems with it apide from one: it sheared off the top fear motor mount both during on the problems with the problems and the problems. It's an additionally supplementation of the problems. It's an exciting blke to ride and will definite be to the problems. It's an exciting blke to ride and will definite by be super-competitive for this year. But next year "I'm not too sure." But next year "I'm not too sure. The problems will be the problems and the problems will be the problems and the problems will be the problems.

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