



Suzuki has gotten off the subject. While Honda, Kuwasaki and Yamaha have uro class, Suzuki has been ad-

test enduro motorcycle of any size. It's difficult to build such a strong case for 175s after they've spent years being relegated to vacation-time giggle-machines for



SUZUKI PE175Z Continued

the new generation of small-bore challengers, the PE is best qualified to prove

Your first clue that the PE is meant more to win endures than to fill a lowcaliber slot in Suzuki's off-road lineur comes with a detailed look at its wor sore pension. This year there are four singleshock 175cc enduro machines, and with Yamaha's remake of the 1T175, three of them are of the rising-rate variety-that is, as the suspension is compressed, the creases, upping the effective spring and damping rates. The easiest way for Suzuki to get the PE on the rising-rate caravan would have been to bolt on the single-shock rear end of the RM125. After all, Yamaha produced good results by using YZ100 suspension on the l'T175. But the PE is its own machine; and while pasting together MX designs might have been a successful approach from a sales point of view, it is no guarantee of success out on the trail. If such a machine were competent on an enduro course, it would be more a product of Suzuki's checkbook, and the PE entered the single-shock world standing on its own suspension. Its linkage, struts and shock are laid out in the same configuration as the larger RMs, but all of the PE's parts enduro requirements. All four of the rebound settings have less damping than the RM125's shock, and the PE has its own

progression curve and a lower spring rate It seems that Suzuki had large riders in most 250cc enduro machinery, but it won't jar the teeth out of a lightweight rider either. The PE is progressive and smooth over the little choppy stuff, but really excels when the trail gets rough. In fact, there are very few enduro bikes in the same league when it comes to smoothing out the gnarlies. The Husqvarna 250WR is one of it comes to things like rolling sand whoors. bined with the weight of a 175, and so when the bike does get sideways or out of shapeit's much more easily corrected than a bigger machine. The PE can take almost anything in stride, proving it doesn't take a foot of travel to build an enduro winner The PE gets the job done-and done quite well-with just 9.8 inches

The Suzuki's Kayaba fork is typical of modern Japanese dirt-bike design—that is, good. As fork technology becomes more

universal, dirt-bike front ends are becoming



The PE175 owes its horses to a new pipe and a rethought port configuration



Suzuki took the expensive route when it gave the PE175 its own full Floater

more similar in both specifications and feel Straight rates agains with aircape but a Straight rate agains with aircape but a recommended air-pressure of a more jut the trapped air within the stanchines still provides progressively increasing resistance and Stoma stanchine into some comment in most if the labe the runs respension, much to most if the labe the runs respension, the stanch of the stanchine in the

Even though the sext and bars give the PE globs a downhill stding position, the machine is confortable. Without the design restrictions imposed by using leftover I25 MX parts, the 15c outful be configured to fit the average endure rider. That means the PE isn't a kid-so improsed row motorcycle. The triding stance is suited for riders around the six-foot mark. Thyth trill manipulation on any machine requires flat action, and you can't reast quickly if you're enumped. The Fe places the rides in a position that allows him to move easily. You doe't have to make a consistence effort to move your weight to a consistence effort to move your weight you don't have to make you weight you don't have been preserved by you don't have preserved to that on the you're treed-standing on the PE feels natural became for the low handlebar. And when the low handlebar. And when the doe't need to wide formed into the delt weight comes to right turns it's easy for the ride to wide formed into the delt weight.

side forward into the right position. In the turns, the FG is a very neutral-handling machine. Its reterring geometry testing and the result of the result o

But the bike's agility extracts a price in terms of stability. The PE develops a wobble at high speed in deep sand or any extremely loose soil. Again, the lack of weight makes life easier, reducing the wobble to harmlessness. But trying to counteract the quiver still will demand a healthy chunk of statestion.



Charting the Changes

Engine: The intake port is 3mm higher higher than on last year's PE775. To mainthe new PE's head gasket is 0.5mm thinner. The exhaust pipe was redesigned to

enhance high-rpm horsepower. Third through sixth gears all are lower but the final drive is taller (3.83:1 vs. 4.0:1) due to a Suspension: The PE's Kayaba fork is new and has approximately half an inch more

travel than last year's. The Full Floater that the compression ratio is close to the

same as before. The pipe also has been rerom performance. And on top, the PE pulls strongly hardware. It's not going to win any drags against the quarter-liters, but enduros the power curve, a PE can follow a bigger machine anywhere. Getting there just means using a different technique. Steep hills require quick downshifting and a more alert frame of mind than would be necessary on a 250. And when the near-vertical lin at the top of the hill sourcaches, the clutch needs to be worked just right. With a slight amount of pressure on the clutch engine in the middle of its power zone. But the PE pilot must be careful not to fall off the powerband. Once he does, his best salvation is to downshift. Waiting for the 175 to drag itself back into its prime rev range without clutch- or shift-assistance can take

rider will be willing to spend. From that, don't conclude that the PE tom seems weak by comparison to the top.

Chassis: Steering-head angle on the PE's Details: Straight-pull spokes are laced to new hubs at both ends. The brake and shift levers fold and are spring-loaded. The hand-lever cable adjusters now have spring-loaded detents that allow the rider with just his fingers.

Suzuki's only 1982 enduro weapon

have solid power in the basement. A playhike nace is no problem for the Suzuki, but it's capable of more, and the rider can't resist the temptation to keep it singing. And that means shifting. Considerably more shifting than a 250 or Open bike would require. More shifting, even, than most modern 175s. The Suzuki will get you other machine its size, but your left foot

Because the machine's personality is so much more hyperactive than last year's PE, Suzuki has squeezed the gearbox ratios together. First and second are unchanged. but third, fourth, fifth and sixth all are gearing is higher, so the end result is a gearbox that is taller in the initial pears but virtually the same in the others

will have to pay the price.

The new motor works well with its new gearbox and new power characteristics. There are some things on the PE, however, that didn't have to be totally changed before they worked. Like the quick-change rear wheel, which is one of the best designs in the business. The brake, rear sprocket and chain don't even have to be touched to get the wheel off, for they remain attached to the swinzerm. We discovered how easy its way into the PE's rear tire while we were testing about 20 miles south of absolutely nowhere. We wedged the PE between a rock and its kickstand and had the wheel off in seconds. And if the PE had Suzuki's back on the trail even sooner.

The wheel itself is new, though, incorfound on RM motocrossers. But even though the spoke change necessitated new same as last year's, which is to say adequate. The front brake, although progressive, requires more pressure than it should.

COMPARATIVE TEST DATA:

| Make & Medel | Wheel Travel Front/Reac, in. | Weight (fuel tank empty), ib. | Weight bias Front/ Rear percent | Steering head angle/ Trail degree/inches | Transmission, number of speeds |
|---------------------|------------------------------|-------------------------------|------------------------------------|---|-----------------------------------|
| Suzuki PE175-'82 | 10.0/9.8 | 229 | 45.9/54.1 | 28.0/4.4 | 6 |
| Kawasaki KDX175-'82 | 9.6/10.5 | | 46.3/53.7 | 28.0/4.7 | 6 |
| Yamaha IT175-'82 | 10.2/11.2 | 216 | 47.0/53.0 | 28.5/4.9 | 6 |
| Honda XR200-'81 | 9.0/10.2 | 228 | 45.2/54.8 | 28.4/4.9 | 6 |
| Husqvarna 250WR-'82 | 10.6/10.7 | 236 | 45.0/55.0 | 30.0/6.0 | 6 |
| Yamaha IT250-'82 | 9.5/11.8 | 239 | 45.6/54.4 | 29.0/5.0 | 6 |

and while the rear will drag you down to a stop more effectively than the front, it still

proofed, as are the dual airboxes and the electrical system. The detailing of the PE. shows all the earmarks of a good enduro machine. No bike is crashproof, but losing arguments with trees, rocks and enduro sections on the PE isn't likely to cause disabling damage. Both the shift and rear brake levers are of the folding variety, and the throttle cable runs parallel to the handlebar where it exits the gear-type straight-pull twistgrip. And the 15-watt headlight is protected from harm by a

The features that the PE lacks are few and trivial. But a welcome addition the next time around would be a speedometer. And another selection in tires would be even better received. The stock Bridgestone M20s looked like lumpy roadracing slicks after just days of riding.



machine you can buy. Its few flaws drag it down from Swedish-iron level and leave it to rule over the small-bores. And if in the minds of the more hard-nosed enduro riders riding the best 175 isn't enough, then back aren't due to its size as much as to other designed-in limitations. And with the new-born emphasis in serious 175 competition machinery, it's only a matter of time before a 175 provides a final answer to the



Suzuki's quick-change rear wheel unplugs from the sprocket and brake in seconds





Ride Review

wondering what it would take to pry Kawasaka's phenomenal KDX175 out of my heart, as well as from under my

low-rom burging ability and better highspeed stability than the PE, and that the make better time on the PE just about through the tight woods faster and easier; any and all trail nasties more efficiently. nomics that actually fit my six-foot-one frame, it's easy to see why there's a new love in my endure life. Maybe I'm fickle,

. I've often been asked which bike I'd buy if the government, my wife or the bank manager said I could have only one. I've me with an answer for that question:

I know a lot of you will look at me aren't serious bikes anyway. Right? bike but it's also fun, and above all it enough low end to grunt through the gnarliest of enduro sections, and enough trail. But, in keeping with its 175cc heritage, the PE can be wound open all day without getting me in over my head. I come away from every ride feeling that

And because the PE feels as light as a out. Its full-sized features fit my six-foottwo frame even better than some 250s. So while I hope the government, my wife or -David Develuest

CYCLE GUIDE SPECIFICATIONS

Suzuki PE175Z

enduro

IMPORTER: U.S. Suzuki Motor Corporation, 3251 East Imperial Highway, Brea, California 92621

| SUGGESTED | RETAIL | PRICE: | \$1529 |
|-----------|--------|--------|--------|
| | | | |

ENGINE
Type two-stroke vertical single
Port arrangement one piston-controlled intake,
one reed-valve-controlled intake, four main transfers,
two booster transfers, one exhausts
Bore and stroke 62.0mm x 57.0mm

Displacement. 1721cc
Compression ratio (corrected) 79:1
Carburéton one 34mm Misuri side/needle
Air filter dual washable oile foam two-stage elements
Lubrication premiser fuel and oil
Starting system primary kick
Ignition external rotor magnete CDI
Charging system none direct AD listhms

Charging system none, direct AC lighting
DRIVETRAIN
Primary drive straight-cut gears; 2.762:1 ratio
Clutch wet, multi-plate
Final drive #520 chain (5/8-in, pitch, 1/4-in, width),

SUSPENSION/WHEEL TRAVEL

Front Kayaba air-spring, 38mm stanchion tube diameter/10.0 in. (254mm)
Rear Kayaba single shock, 10.0mm spring preload adjustment, 4-way adjustable rebound damping/

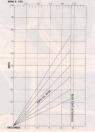
BRAKES
Front drum, single-leading shoe.
Rear drum, single-leading shoe.
rod-and linkage-operated

Wheetboae 56.8 to 58.2 in, 15.43 to 1.47 Semiles theight 56.8 to 58.2 in, 15.43 to 1.47 Semiles theight 56.3 in (9.22mm) Handbear width 67.2 in, 16.2 in WARRANTY: none

AVAILABLE COLOR: yellow only

All weights and measurements are taken with machine unladen and fuel tank empty





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