SUZUKI PE175

A Lightweight Six-Speed Enduro That is Already Winning

We tested the first Sazuki PE250 in December 1976. We took it to Baja California and ran if for two days and one night, until we logged 1000 miles. We were impressed

CYCLL WORL TEST

larger displacement model r 175cc model is here, wait has been worth it.

The new 175 may be the best small bore endure bike presently available to the general public.

It would be only a little bit wrong to say Suzuki produced the PE175 off the parts shelf. Like its big brother and its rival, the Yamsaha IT175, the smaller PE is a mixture, or maybe a descendant, of the motocross bikes: same basic frame and suspension, with revisions for lower speed and rougher ground, same basic engine as

for more torque and less power within a wider rev band, and the same good gearbox with ratios juggled for engine and chassis and rider demands.

It has a sleek, unclustered, business-like, look, All necessary redutor items are furnished, but the fat has been left off. The dodneter is a fine cumple, Right, odometer—not speedometer. Most riders find the standard speedo becomes mostly blur in endure conditions and because the speed medit takes all the dial, the dod, that more useful gadget that measures how far you've traveled, is usually small.

useful gaoget mat measures now har you we retried, in sunally small.

Surnix did the logical form of the sunal form of t

m. There is a flaw. The odometer only reads up to 99 miles. Some enduto lougs—conjunit-to-joni sections—are longer than 100 miles. Further, many enduto sanctioning groups post rumulative mileage at apped changes even when the event is broken up into several loops or sections. For that reason, riders often keep time one armulative mileage basis, In a long, close event, the 20 or 20 seconds a PELTS rider might have to spent conversing what the odo says time cumulative mileage could mean the difference between visining and

A 3-in-1 combination wrench rides behind the right side of the front number
plate. It sides into a bracket attached so
the top triple clamp and a rubber band
holds it in place. This mounting looks too
simple and we were sare it would fall off,
but it didn't. The big end of the wrench fits
the rear ackle, the L2mm box cond dist the
wheel adjuster, pipe bracket bolts, chain
tensioner protector, handblear clamps and
triple clamps. A steel pin jutting from the
L2mm box is used to pull the attles. At the-















opposite end is a spark plug wrench and a

box end that his the front axle. Enduror ideas have been building combination tools like this for years. Now the PE has one stock, (Although this onn tool will the many parts, the serious enduro rider willissill carry others.)

The new PE's 3-gallon gas tank is plustic.

and has been designed to keep the fuel in so an possible I/I is fully earned for such that a possible I/I is fully earned as above. He frame's backbone. To keep the weight foom the nain's bestome a stagegored, the 16th tide is lower than the right. The collection of the control of the collection of the stage of the collection of the collection of the development of the development of the footnets for the full page and also give maximum trank volume. The single percent is contact on the footnets which are footnets of the collection of the collection of the collection of the shart of A.Y. the top's is large filler holes with a plastic copy and attached safety stage. The strap prevents despire in the collection of the collection of the collection of the collection of the other collection.

Other color-impregnated plastic per the side number plates, headlinguising and fenders. The large frender is the same fine design used on

job of protecting the operator.

The rear fender is wide and long, has an

integral fullight, and a flat ribbed wice between the seal back and rear fame floop. This flat spot makes it easy to attach a leather fool hay or spare tabe. Both feedershave molded-in stiffering ribs, to keep them from bending and rubbing the tires when packed with mul.

The suspension is the same as the PE250, with rates adjusted for weight. The front forks are leading-axle jobs that allow over 9 in. of plush travel. Rubber gaiters keep mind out of the seals and help protect the standard rubbs.

shocks in a cuntileveree gloothor. Isely make dual-tree genings and let the rear whole move distinct almost equal to the front. They dust have remote reservoirs and aren't rebuildable. The hodies got during many hours of her uniform grant production of the control of the cont

This fine suspension is connected to a solid single downtube frame much like an RM. It has a large backbone tube triangul-

Heavy duty clamps keep the cables the wheel Rim anear lives are good and and gusseted at the steering Two small tubes go under the engine curve up and forward where they all

curve up and forward where they altitude, the backbone truth. The start will take connect idea to the backbone and commen back to become the shorteng and commen back to become the shorteng and take and has another take that their saint take and has another take that their model to the main frames after the size of the saint take and has another take that their model to the main frames after the size of the saint proport. The swing arm is a teel, rectangle to deep that Yazarkh has used success titley on their prediction moterowises. A change he have a spring bound that tensioner is still employed. To help protect the tensioner and mast spocket a bother the tensioner and mast spocket a bother.

uch appreciated in nocky areas. The bike is delivered with side stand and ackets for a centerstand. Casual riders refer the former and serious enduro enants like the later, for ease in changing res quickly on the trail, so a centerstand an option. These are IRC trim-saver knobbies. Ex-

tended sidewalls protect the rims fror rock-caused dents and from damage whe the bike must be ridden on a flat, a important bonus for qualifier-type racer. The IRC tree gripped well in dirt an across nocks. Shoulderless aluminum rimselves descended the







Bexing was good; but not quite gent. The rear unit has a rice ly to block water and dust from the drum, and while it is not completely waterproof it did seem to as due to so of duce loss of brake power immediately affect water crossings, frake torque is taken by the swing arm, unlike the fall doubutg year on the newest M.M. Dahl's seem to the loss of which we have been dear the back wheel on the ground even with brake longue working against it. The front brake housed in a nifty concal hubt, also gree went and also dries quarkly with a

The generous air cleaner lives in a larg air box, serviced via a lid on the top. The lid didn't make friends with us—its sharp edges gave one of our men a gashed finge

At first planes the PE175 engine seems to be an enlarged RM125. Not so, More a result of the same design crew working on both projects. The clutch interchanges but cases, barrel and so forth are timed and safed for and-range power and good pull through the rev range. Pointless ignition is finted and the lighting coil has enough output to handle the socks lights and/or a modified extern for midth work.

modined system for night work.

The gearbox also has RM parts, mostly in the shift mechanism, but the ratios are carefully spaced. The first two are for

there's a choice of two for busting, well, or of out of turns, and then there are two for the roads and flatious stiff. All are covered for the roads and flatious stiff. All are covered for the job, and the high top gears give the 17s a maximum speed of 710 or better, assuming the geround le latin Closer than the contract of the property of the contract of the covered to the covered to the property of the covered to the co

engine has an exceptionasia wase, smooth powerhand and the clutch always completely engages and disengages smoothly. The high erossover pine terminates in a forestry service-approved spark arrester. Quest, unobtrusive, and legal.

A small headlight nests in the plastic base on the control of the control o

than %-in. A heavy wire mesh sere would be better.

The little PE comes with a good wra around steel skid plate. It has one hole the bottom so transmission oil change.

te bottom so transmission oil changes iny be easily performed, and two more oles in the right front to allow the owner ocheck front motor mount bolt tightness, the bottom attaching bolts are located in ne plate is skidding over a large rock or

One thing that will eventually cause publisms is the location of the side stand spring. Suzuki places their return springs under the stand, which gives a nice unclutered look but . . eventually a rock will surely shear the spring peg and let the stand flop. Very annoying when in the heat of competition. Better they put it on the top, where it's ughy but said.

complete. The throttle cable has a heavefromed-nubber housing that sides on the throttle and routes the cable out or through nice rylon cable gaides like in Amaria say. The front brake cable more through nice rylon cable gaides like in day; cable campa hidds the odometer and front brake cable in place on the for sider. Buth hand levers have forme covers that allow quick access and gai good protection to the powds. And it drive chain is a D.1.D. 3007 R jost liked in chain as a perior of the control of the chain or cable in the case of the control of

Riding the PE is pure delight. If has a olid, light feel that permits the rider to lay for hours without fatigue. Both from and rear suspension components are





less side			1	1	A
Five-in-one	wrench	58405	weigh	tand	is 6





Large plastic gas tank carries the fuel low on the bike. Note staggered bottom.

Power delivery is smooth but even so, to go fast requires the rider to wind the engine and stir the gear box constantly. This characteristic isn't one of poor design, but standard practice on any small engine asked to propel a full sized adult at racing speeds. Mid and low range power is good all day without loading up or complaining, but total power output doesn't seem as good as a Yamaha IT175.

The PEIT'S is a hard bike to fault. It feels

a bit high at first, a function of the long

SUZUKI PE175

SPECIFICATIONS	
List price	\$1179
Suspension, front	telescopic fork
Suspension, rear	swing arm
Tire, front	3.00-21
Tire, rear	4.10-18
Engine	two-stroke Single
Bore x stroke	
Piston displacement	172cc
Compression ratio	7.6:1
Claimed power	na
Claimed torque	na
Carburetion	32mm Mikuni
Ignition	
Lubrication system	premix
Oil capacity (transmi	ssion)1.7 pt.
Fuel capacity	3.2 gal.
Recommended fuel	
Starting system	primary kick
Air filtration	oiled foam

POWER TRANSMISSION
Clutch multi-disc, wet

Primary drivestraight-	cut gear
Final drive #5	20 chain
Gear Ratios, overall:1	
6th	9.66
5th	11.54
4th	13.81
3rd	18.19
2nd	24.45
1st	
DIMENSIONS	
Wheelbase	55.9 in.
Seat height	35.5 in
Seat width	
Handlebar width	34.0 in
Footpeg height	14.0 in.
Ground clearance	11.3 in.
Front fork rake angle	0.0 deg.
Trail	
Curb weight (w/half-tank fuel)	228
Mainht blac	

front/rear, percent

REAR SHOCKS



Compression damping force 3 ib. Rebound damping force 12 ib. Static seal friction 7 ib. Static seal friction 7 ib. Static seal friction 6 ib. Static seal fr

suspension travel, but that impression is of rogoster as soon as the bite is in motion. The 175 is light and feels lighter. There appear to be only a few, difference between the PE and its closest competitor (the 1175), etc. the PE steers with more contraction and in as stable at top speed. Only the period of the period of

The PE175 doesn't have the finely honed precision of, for example, the Hercules. Doesn't quite have a specialty like

I I commo I I I							>	I seelection compression	
-								-	
yaba DeCarbon shock ock length 15.0 in.									
ock travel 4.7 in. neel travel 9.0 in.									
ring rate									
mpression damping force 30 lb. bound damping force 83 lb.									

The rear end of the small PE offers a plush ride with excellent control. Relatively soft spring and damping rates allow full use of the generous amount of travel, yet bottoming rarely occurs. Those over 150 lb. in weight and/or very aggressive riders may wish to increase spring rate by 10 lb./in. or so; the majority will like the suspension.

the woods-perfect Alpina.

Nor does it make the demand high-priced jobs. A 16-year-old nor nde all day behind his dad, the for slowpoke, and enjoy himself whill doesn't foul plugs or topple over.

first and second overall in a national enduro, riding PE175s.

So. Small-bore fans looking for an excuse to buy a new bike, or for just the right mount for wife, daughter, son, etc., are

SEPTEMBER 1978/59