

NTIL LATE last year if the serious enduror rider was Sazuki-inclined he didn't have a choice, it was either the 50 or nothing. It didn't leave a let of eno classes to ride in either. That was an reational problem, particularly considermost top overseas ISDT competitoes are

The factory considered, but found it had no case, for covering its RM30 to an IP400-liber. Mindful of the IT175 sucress story, Surubis engineers created instead a 175 cm² capacity endure meer. And just like IT175, the EE175 is a raw markine to be found sixting on the showroom floor. Like all of the Cautal insteaders mechines, and it is the cautal insteaders mechines, and the EE175 is not a cheep makine it to public offering.

And the PE175 is not a cheep machine by And the PE175 is not a cheep machine for

Near use "E110" is but a trasp included and the control of the con

Internally, the PE175 engine has some similarity to Suzuki's new street 250 with

seed valve induction weeking together with sisten port timing. The 178 is as a seeded form version of hig brother P5250, in the tit is totally the opposite intervally. Box a tricked dimension on the 178 is 82 × 57 ms to the machine is very oversquare. The 250 it 67 × 70 mm has a long stroke compares to its box. This translates to a P5176 which was a bit harder than the 250 and perform outly differently although it is only inarginally smaller machine. On the outside the engine design hand

On the outside the engine design hand's allowed assessment of the state desceled and allowed assessment of the state desceled and the state of the s

anyway, and the control of the control of the control of the time both to a review stack the petrol through pretty quickly. The hite uses permit and Stanke recommends 201 ratio. We changed this on toth because therein the control of the control o

high for a machine of that size and in the

Unquestionably the Suzuki likes to run and feels more like a slightly modified 250 and it will easily drag itself out of tight situations with low revs; it's just that the engine is revolving quickly but the PE175 doesn't have to be ridden hard to Like the IT175, the PE prefers to be

On one occasion the little """ took tried that, but didn't feel like pushing the which at one stage of the game looked quite

lem but the Suzuki tended to loading up when the engine was hot. While the PEI ignition couldn't triumph over a gutful of fuel, submerred. We figured the 12-litre tank

The drag strip is possibly not a very ap propriate test of the PE175, but the The SS400 performance it turned in was

also the absence of a tachometer but the run pretty consistently under flat out ac-The high reduction in first gear meant a

Left: Machine is much in the



The PE175, like its IT counterpart, is best use of the 172 cm2 engine's power manageable when it comes to flat out ac-

In between, other gears are evenly spaced

movement. A rider wearing motocross boots needs to take care not to accidentally snick The clutch is surprisingly light with smooth-working cables running through

Suspension and off-road handling thinking Suzuki's PE175 is just an IT in yellow clothing because that appears to be the case. It also proves to be the case in axle forks (although most European manufacturers have been using them for its front focks the PE offers progressive Take 108 kg soaking wet plus a trick new and better-breathing powerplant on "secrets from motocross" suspension and you've bred a PE175. No wonder it'll blow the blinkers off the rest, It'll probably even do it to the Europeans...





Top: PE175's sumpguard is a good lan. Clutch actuator arm is major external change from 250. Note also ciented page and pedal.

Above: Saulty presults in a succession of trick bits. Beely source section suing arm is

all steel and pivots in needle rollers. Laid forward gestoil shocks use two springs. It's a very good rear end.

Right: Leading axle forks are raked 40 degrees. Trick stuff for the dirt. Bike likes to be possered through corners to hold front



Above: Wonder-tool! Have you got one! Let's just say the basic idea is good. But don't



PE250. These new units are interesting. On compression they refuse to top out but are very soft on rebound and comparatively easy to stretch out full traval and bottom.

Way?

Danno, No-one at Sazuki knew much about the internals of the legs, but they're obviously a product of revised suspension thinking, It's also likely they've about enough movement as it's logical to offer on a

thinking. It's also larely they we shoot inhibition in the larely has been as the street. At the way Yaminki continue was proposed as the larely years and the larely proposed whetel own by a beauting the larely was a street of the larely

The rear swing arm pivot is monited in resedle roller bearings and the swing arm itself has been beefed up. Although impressive for the kike's capacity, the material is still pressed steel welded into a square section arm and not heavy alloy like that fitted to the current model Suuki RM motocrossers.

So how does it all work on the dirt?

So how does it all work on the dirt?
The PE is ene of the assists bikes to really
go fast on in the dirt without getting into
trouble. Its lightness-inspired agility offers
the PE the ability to regain its composure
almost naturally after being thrown into
rather nasty situations; the type of positions
cee would not expect to come out of
unscathed when riding anything less than a
more-bord motor crosser.

The machine jumps easily and flies straight. Bringing the front whoel up in oth hard at all even when hurtling down a 30 degree incline in third goar or pulling the power on out of a ocner, even though under fat out acceleration conditions the front wheel stays firmly on the ground unless provoked.

Handling over wet and slippery rocks, loose logs and long, uphill maddy slopes was very good. In all cases the PE tracked straight and true. Sure, you'd expect that but we didn't expect so much of it! Admittedly we had an advantage. Our test blie was fitted with a good set of motorcost tyres froct and rear which helped greatly in the muddy and more slippery sections of

track.

The PE (or its rider) did get out of line sometimes but, contrary to gut feeling, the solution was just to screw on the power and

ist the bike look after itself.

The front wheel fork rate of 40 degrees is large compared with most other meshines. Sculed read high-speet heading does suffer a wither wallowy ride in the tradeoff — but on the dirt things are different We saw at some stages 120 km/h on the dirt had the PR was rock-steady, the front wheel handle all situations without fault but was more predictable pushed through corners under

# SUZZIJKI PE175 SUMMARY

#### FNGINE

Air-cooled single-cylinder two-stroke. Induction through piston-controlled porting and reed valve. Lubrication by fuel/oil premix. Maximum claimed power 18 kW at 9500 rom

Maximum engine speed 10,000 rpm Cerburetion Single Mikuni VM32SS Starter system Primary kick Ignition Poincless Electronic Ignition

### TRANSMISSION

Spur gear primary drive to wet multi-plate clutch. Six-speed constant mesh gearbox with one-down five-up pattern. Final drive by roller chain, First ... Third 17,430 Fourth 13,229 Fifth 11,069

Primery reduction: 2.761:1 Secondary reduction: 3.833:1

#### FRAME AND BRAKES

Semi double cradle steel tube frame with oil-damped telescopic spring forks up front. Roller bearing mounted swing arm at rear with nitrogendamped shock absorbers using three-position spring preload adjustment. Single leading shoe drum brakes both front and rear. 

.40 degrees Fork rake ..... Fork trail 130 mm
Front brake diameter 145 mm 
 Rear brake diameter
 185 mm

 Front tyre
 Metzeler 3.25 – 21
 

#### DIMENSIONS

Dry weight	98 kg
Seat height	930 mm
Wheelbase	1420 mm
Ground clearance	
Fuel capacity (incl reserve)	121
Fuel reserve	NII

### PERFORMANCE

Acceleration
Standing 400 metres
Average of last 3 runs
Zero to 100 km/h
Maximum speed
Braking
From 100 km/h to zero
Average of last three stops
From 60 km/h to zero
Average of last three stops
Fuel consumption
Average on test

RATINGS	Poor	Below A	Average	Above A	Outstand
ENGINE		100		82	331
Responsiveness					
Smoothness	Mark Control				
Low rev power	Contract of the		-		
Midrange power					
Top end power					
Fuel economy		-	_		
Starting					
Quietness					
TRANSMISSION					
Clutch		3	100		
Gearbox operation	The said and				
Ratio suitability	Property Tes				
Drivetrain freeplay					

Gearbox operation	Control of the last		100
Ratio suitability	The Control	160	
Drivetrain freeplay			all I
SUSPENSION			
Front		100	-
Rear	100000000000000000000000000000000000000		-
Front/rear match	2000		K
DIRT RIDING	STATE OF THE PARTY.	Section 2	

Ground clearance				7
Steering (overall)				
Braking on dirt		-		
Stiding	0.77		-	
Jumping		100		
Hilclimbing	100 E			
Slow, riadgery work	200		100	
Ease of throwing around				

Riding position		롮	200	
Seat comfort				
Ride comfort	(2) Indiana (a)			
Highest cruising speed				
Touring range	THE RESERVE TO SERVE			
Street handling (overall)	AND DESCRIPTION OF THE PERSON	_		
Stability at speed			0.00	
Braking on tar			(510)	
Pillioniria				

GENERAL				
Location of controls	CONTRACTOR OF CO.	100		
Lighting	N 100 S 100		100	1000
Rearview mirrors		100		
Horn		•	100	
Toolkit	1551000			
Quality of finish				
Overall styling	THE RESERVE	100	100	

## TEST MACHINE

Manufacturer
Test machine
Price
Best points: Light weight with very responsive engine, superb off-road
handling with progressive suspension. A very easy to control slider.
Worst points: Low-power lighting, temperamental engine starting and
unsteady (because of the large fork rake) high speed sealed road hand-

VALUE FOR MONEY

power. Anything short of this could induce

Some sidler tectics are a natural with the Fb but the transition between grip and letting go is fine and hard to pick accurately, then the powerbond hits under hard areleration the back wheel can break loss relevant to the best section of the concept of the power between the power comes on in second or third the bike will break out. It's very precipitation one mastered, the more power, the more above, Suddraily threak a new "Epstike Of The

Braking

Draking
The sessied reed braking of the PE175 left
a lot to be desired, and that's exactly what
we expected with the full knobby tyres and
extra long suspension travel combination.
Both front and rear brakes are black-painted

half-width single leading shoe drums, 145 mm diameter on the front and 155 mm diameter on the rar. For what they are etthey work reasonably well, although it's astly well to remember this type of seeled road as stooping power is not peessarily healthy on

the dirt.

The distances taken to stop from 100 kmfs and 60 kmfs were 41.4 metres and 16.2 meters respectively. The 100 kmfs stop is around six metres more than the average near the takes to stop from that speed, so to prove that speed, and the stakes to stop from that speed, around six metres more than the severy progressively with a lot of spossing beautiful to the stake of the speed before either front or over when began to lock up. Remember that we had this all happening on knobbles, on which the

began to lock up. Remember that we had began to lock up. Remember that we had this all happening on knobbies, on which the knobs have a tendency to "walk" along the road surface rather than skid. Seme brake fode occurred towards the end of the stops but that could only be expected from such small units.

Abor 15 saterpost (ii a rokst. 174

Above: It's waterproof, it's a rocket, it's a sider. A bit trick to start on occasions too. But buy one if you're into enduros. Right: We'd call it "we'd tucked in".

PE 175



On loose surfaces the brakes behaved differently and did lock up easily, especially the rear wheel. Even when lock-up was overemphasised and deliberately promoted the PE didn't come off line at any time under

Both brakes are well waterproofed. All the mud and water crossings we went through didn't adversely affect their performance.

Important points PE175 was its overall appearance, but we respected its looks as much for their functioned qualities. Nearly everything on the bike is either bright "Phlolina Yellow" impregnated plastic or black-coated magnesoum alloy, and all are functional. The guards are indestructable, the plastic tank resists dente and the plastic sidecovers are in the same category as the guards. Simply; the machine can be dropped without bending anything important - except maybe the rider. The single downtube double cradle frame carries a substantial steel sumpguard to protect the slim engine. Around the top steel tubes winds the relatively quiet expansion chamber exhaust, tucked away from both the rider's legs and frame manhandling

The soft, deep cushon seat is neato, take he pain out of the solor need too kidometre at a timel coloneater in the flexible-mounts at a timel coloneater in the flexible coloneater. It is a subject to the flexible coloneater in the flexib

course at a miserable 15 watta and the polycarbonate lens is well protected by a steel wire cover.

We particularly liked the idea of one tool for all purposes, and Suzuki claims its new gadget is functional for front and rear wheel removal, thin adjustment and plag removal. Maybe; but it ain't adaptathe. What good is it to have the spanner to remove the

rear wheel and no way to get the split pin off? Still, the PE shapes up as a low-maintenance machine with detail like pointless ignition, roller type chain tensioner, rim savertyres, and dustproof throttle, clutch and brake cables.

Conclusion

The Suzuki PE176 is a motorcycle for the serious endower roled. It inn't a trail blazer—the IT175 did that a year ago—but it is a development of an already tried and proven formula. Enduro resing is a growing form of off-road competition and Suzuki has undoubtedly joined the party to show moto-cross-bred superiority.

The PE175 performs adequately on the road and impecably in the dirt and we suspect there's many riders prepared to acout the compromise.

A column in which we apply our critical minds to the real worth of various products

# High On A Flier!

HE PE175 proved a popular i and seller in 1978 and TWO WHEELS' enduro enthusiast Kei ws invited to ride Sydneysider and photogra-

Hound earlier this year. As it happened the McLachlin/Wearne entry both won its class and placed fourth overall. The winning enduro recer was built up from very second hand in only a few days - beetic though ed successful in heavy competition (th ultimate test) we're passing on the word The PE's front end received the latest

which is used by Syd Moore and others. Not quite as good as the deep-log Metzeler in vantage in being completely suited to the portantly, in the event of a puncture one can

The rear tyre was a six-ply Bridgestone, a 4.25 × 18 M8. These can be run down to zilch pressure and just never puncture. The tubes used were the top Trelleborg heavy duty competition tubes, made from a mix ture of natural and synthetic rubber which is not only stronger than other material but also 2.5 mm thick against the usual 1.5 mm

Magura forged motocross lever assembly and controls were added; quite simply the best available. A super magnesium throttle PE has a good throttle and cable and mak The Trelleborg tyres and tubes and the

Bridgestone and Maguras should be avail able at good local dealers. To ensure the riding remained as comfortable as possible for the six hours a set of

A squirt of lube to ensure the Fox Air Shox shafts are clean to start with. Rear twre is 425 x 18 six-ply Bridgestone mated to 300 x 21 four-ply T544 Trelleborg

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Stephen Cramer Products motocross bars was added to the front, braced black ones which are comfortable and strong. Available from dealers or from Farmlife Products, 449 Dean Street, Albury, phone (062) 28-9362.

A touch of class for the gripe, the Gukley of the upper process of these are made from the class of the gripe. The Gukley of temperary roos. These are made from the class of the gripe of temperary of the gripe of temperary of the gripe of

can't go wrong. There's a choice of colors.

The KG Fork skins are additional protection for a privately-owned bike (and that counts when selling time comes up). These come in the right colors and fit over the siders without removing anything. Nest. Light. Around \$14.95. And they may stop severe damage in rocky going or a get-off. Made from thirk, \$67f; impact-absorbing the properties of the properties of the protection of the process of the protection of the protection of the protection of the process of the protection of the p

plastic nubber compound.

At the rear of the PE the standard units came off and on went the big itsens; \$890 sworth of Fox Air Shox. Simply because Wearne rates them as one of the best two units one can invest in. Note the term investment: The Fox Air Shox, used by Hartah Desert winner John Behrens and by Australian Motocross Champion Anthony Gunter, just last and last one rebuild per sesson does the trick for these guns. About high the part of the property of the property

In fact ones pair of units such as the Fun Air Shox whould last the life of the bide and perhaps more. The importers, Competition Developments have the full runge of parts and replaceable items (Wearne, being sun approximation) and applies with dependent all the sparres out and applies with dependent and green. Results was be bought youth, bought, in a pair and after riding with them swears the property of the sun and the property of the proton of the property of the property of the proton of the property of the property of the proton of the property of the property of the proton of the proton

other top units.

The Fox Air shox use oil and nitrogen for damping and pressure; the oil weight can obviously be changed to suit and the gas pressure can also be varied to suit riders and bike and the conditions. Competition Developments has not had a failure of the units under racing use including cashes and two under racing use including cashes and two

The Fex Air Shox come complete; two sets of different-size brocase bushings and a complete detailed workshop manual, including good info on setting up, spore parts and disassembly and assembly. No other shock manufacturer gives the same information and assistance for use and maintenance, if you're a serious rider you shouldn't be without them.

The difference to the PE175 was stunning, allowing Shane, who was used to the bike, to











Right: These are the Fox Air Shox. Gunter uses them, Pace has chosen them for '79. Appelgren, Cater and Behrens use them, Superb quality and long lasting investment rather than just an expenditure. We mean it!

go much harder than he had ever before, without becoming tired or ragged. Even with settings too firm the bike was comfortable than normal. Fox Shox are available from your local desiler through the national distributor.

Competition Developments, PO Box 228, Eastwood, NSW 2122, phone (02) 654-9330. So that's it — the anatomy of a class winner which went hard enough to stir Open runners.



Left and below: Shane

