

There's Dunlop K190, K88, and K88HT...three championship knobbies... each engineered with a tread design and compound to conquer specific

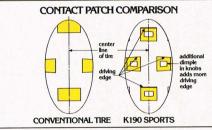
types of terrain.

For fast getaways and control on straightaways, turns and jumps, you need tires with deep biting edges and sure grip...no matter what the riding conditions or terrain.

Dunlop - whose tires powered motorcycles to more firsts, seconds, and thirds than any other tire brand in the 1978 Nationals (125, 250 and 500CC), CMC Golden State Series, Supercross Series, Trans-A.M.A. and U.S. Grand Prix Events - has designed not one, but three Motocross and Enduro tires.

K190: The all-purpose tire

The key to the K190's all-around performance is a unique tread design that features small, rectangular "dimples" molded into each tread block. This gives you eight biting edges on every knob instead of four, providing traction in sand, mud or "blue groove."



Add the flexible, resilient compound, big reinforced shoulder blocks and a rim saver that protects against rocks and stones, and you have the best all-around Motocross / Enduro tire value available. When you price it, you'll buy it - no matter what size you need, from mini-motocross to open class.

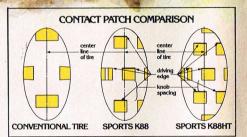
K88: The ultimate soft terrain tire. As with other Dunlop motorcycle tires, the success of K88, particularly in competitions where soft conditions prevail, can be attributed to its design.

While there are five knobs in each row, as in a traditional tread pattern,

the knobs have been offset. This alignment, pioneered by Dunlop, allows each knob to dig into the terrain following a slightly different line than the one preceding it. This, combined with a harder compound, puts more traction edges in contact with the earth per tire revolution. And, the knobs are spaced to clear mud and loose ground from the tread.

K88HT: Specially designed for hard terrain. For "blue groove" surfaces, you need even more rubber in contact with the ground than for medium-to-soft conditions. The Dunlop K88HT is your tire.

Featuring a wider profile, the K88HT also uses an offset knob arrangement. However, the knobs are placed much closer together than those in the K88, to give even more contact needed for hard terrain. And the compound is softer than the K88. This combination results in more driving edges and rubber-toground contact necessary for the unyielding conditions of hard terrain.



The shoulder knobs were strengthened by adding more rubber, to help prevent knob rollover when cornering on "blue groove".

The Dunlop K190, K88 and K88HT - three first-class knobbies - proven winners in Motocross and Enduro events around the world. One of them is your ticket to winning.



P.O. Box 1109 Buffalo, N.Y. 14240 716-879-8200

More cycles ride on Dunlop than any other tire in the world.



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Volume 9 No. 6 June 1979

TESTS

- Still the best?
- 30 CAN-AM 250 QUALIFIER
 The legendary Canadian
- 50 YAMAHA IT400F Shaggy dog
- **SUZUKI DS125N**Kids and visiting relatives

TECHNICAL

- 24 PROJECT TT500 King Kong lives!
- 54 SWINGARM TECH
 Beating around the bushing

FEATURES

- 18 LEGAL UPDATE
 Midnight skulking
- 21 ICE RACING In June?
- 34 PRODUCT EVALUATION
 Scott Boots
- 38 WHEN YOU BREAK The 250s, part three
- **PRODUCT EVALUATION**Clymer Workshop Manuals

DEPARTMENTS

- 4 FROM THE SADDLE
- Bench racing
- 6 OWENSMOUTH Swat tactics
- 8 LAST OVER
 Wet weather friend
- 10 MISTER KNOW IT ALL Foaming at the mouth
- 12 NEW PRODUCTS
 Step right up
- 14 RIDERS WRITE Some of them do
- 16 BITS AND PIECES
 Blatant obfuscation
- 74 CRASH AND BURN
 Traction attraction

On the cover:
Jim O'Neal approaches exit velocity on the IT400.
Sieman photo.

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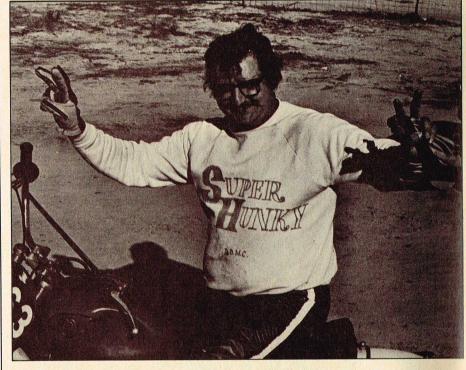
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From The Saddle

Super lawyer rides again! **By Rick Sieman**



Now that I've been spending so much time in the courtroom with all the land use hassle, it's beginning to work on my mind. I'm starting to think like a lawyer. . . and even talk like one. Why, just the other night, I dreamed that I was in Federal Court with the BLM and I was the lawyer. It went like this:

"Mr. Sieman, please call your first witness," said the honorable judge.

"Thank you, your honor. For my first witness, I'd like to call the BLM Ranger, Brian Booring. Mr. Booring, will you please take the stand?"

The bailiff intoned, "Will you please raise your right hand and swear to tell the truth, the whole truth and nothing but the truth?"

"Of course not," snapped the steelyeyed Ranger. "Do you think I want to get fired or something?"

"Sorry," mumbled the bailiff, "guess I lost my head for a moment."

I got up from the massive mahogany table, shuffled a stack of papers expertly, coughed a few times for effect, cleared my throat and began: "Mr. Booring. You claimed in your affidavit that the bikers were destroying the desert. Is that not

correct? A simple yes or no will suffice."

"Yes."

"Well, then, it's obvious that you, sir, are not much smarter than a puckerbush. I'm going to give you a basic quiz on desert savvy and know-how, just to see if you are even remotely competent to make a judgment about anything relating to the desert. Ready?"

"Fire away, Mr. Super Hunky. I've been to several universities and schools and I know a whole lot about our fragile desert." He leaned back smugly and folded his arms over his alleged chest. A nervous smile creased his acne-riddled face. He knew he was up against a DIRT BIKE staffer.

"Mr. Booring, do you know what a whoop-de-doo is?'

"Say what?"

"A whoop-de-doo, sir. Sometimes known as whoopdees. Come, come, sir. The bench is waiting for your answer."

"I...I... uh, that is, well... I don't know." stammered the Ranger.

"You don't know. You actually don't know. Well, well, well. And you

(Continued on page 7)

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Owensmouth

Swat tactics **By Ned Owens**

Oh, it was horrible!

There they were, right there on the screen, clubbing the poor defenseless little creatures. They'd just haul off and smash them. It was really gruesome.

First the "hunters" would stalk them, line up a shot, and then with a swift smack, end their pitiful little lives. The poor little devils would cry out, but it was almost impossible to hear them. Their big eyes would just look up with helplessness. At the last second they would try to flee, but their predators were too large and would overtake them easily. Occasionally, one would escape — but it was rare.

Usually, the killers would holler, "Got 'em!" or, "There's another!" and go after it with a vengeance. Some would even catch them with their bare hands, and crush them with a clap.

I'd seen this sort of wholesale slaughter for years, but it really never did sink in. Not until I saw this grisly demonstration. Sure, hundreds of thousands are killed each year millions perhaps. Many are done in with chemicals. A wide array of sprays are awesome killers, but there is even a solidified chemical that draws them close and snuffs their little lights.

Traps are not as common as the chemicals, but they do exist, and they are deadly. All of us are responsible for the slaughter of these tiny creatures. Everyone takes the blame.

That's why I can't just stand by and watch the carnage anymore. I mean, they don't use the pelts, or kill them for food, or anything. They're just killed. Enough of this!

I feel that I must point out this injustice, and bring it up before the populace. We must take action! **SAVE THE BABY FLIES!!**

I don't really know why anyone hasn't already started a crusade to save these little babies. Obviously the unwarranted massacre is there. They do have little furry-like bodies and big eyes — lots of them. They should be perfect to evoke sympathy and massive amounts of contributions tax-deductible, of course.

Why isn't there already a crusade? I can't answer that, but I feel that I must spearhead the operation. My plan is multi-faceted.

First, we'll organize a non-profit organization, to help bring in all those bucks. And we'll think of a name.



Perhaps "FLYPEACE," or "GREENSPECK." Maybe "WINGED VICTORY."

Secondly, we must bring this to the attention of all of the people. We must get some TV and FM radio air time, and go on speaking tours. We'll hire a crack photographer to take cuddly, sympathetic photos for big posters, a mail-order campaign and ads in all of the "aware" publications. Bumper stickers on all cars and trucks. T-shirts. The works.

The next phase is to start a massive boycott of the fly killers and their products. Boycott Black Flag! Boycott Shell No-Pest Strips! Don't buy fly swatters or screen doors. Feed your turtle fly-free pet food! Use rolled-up newspapers for good, not evil!

Demonstrations always bring out the TV cameras. We'll march in front of each of the state capitols. We'll carry placards and take 100-mile treks. Whenever we can't get attention, we'll take a hike.

Phase Five will mean lobbying in Washington and leaning on the Forest Service and the BLM. We'll push to have fly preserves set aside. Cattle feed lots will be havens where those who

want to enjoy flies in their natural, protected environment can go and spend a day. . . have a picnic. Of course, this will mean that most farms and ranches will have to be shut down. We can't have humans mucking about.

No car traffic on these preserves, either. Especially no motorcycles. Damage to the fly species caused by noise and by being run over (cowtrailing is a favorite pastime of dirt bikers) has not yet been determined, but we feel that they could very easily become endangered - unless we put a stop to motorcycle riding. Sorry, but it has to be.

We'll have to make it a crime to run over a cow pie, or any other natural environment or home of the fly. Nesting areas and breeding grounds will have to be carefully monitored to see that no bikes are allowed to ride through these sensitive impact areas.

A full-scale, government-funded study of motorcycle noise and its no-doubt harmful effects on the species will be begun in earnest. We can also point up the ways that flies benefit mankind. For instance, how they swarm around dog doo on the sidewalks, alerting pedestrians to the hazard.

The national speed limit will have to be lowered — too many flies are dying on the grilles and goggles of America's drivers and riders.

But if we can't get these killers to stop slaughtering the defenseless flies, we'll initiate another bold plan. We'll spray the baby flies with a dye to keep the killers from using them for coats or stoles. Some of the flies will die from the spray, and it'll be easier to spot them, but more will live in the long

The fly only has a lifespan of about 20 days. After a week they're teenagers. Live and let live, I've always said. It's a short enough life without the unwarranted murder.

So it looks like I'm going to have to hang up my boots and leathers — this crusade is going to take up all my free time. I'm pleading with you to join me in saving the baby flies.

Please send your contributions — dig deep — to "SAVE THE BABY FLIES AND DIRT BIKE EDITORS BEER FUND" c/o this magazine. We're sure that we can put the money to the best

SAVE THE BABY FLIES!

FROM THE SADDLE

(Continued from page 4) call yourself a Ranger, sir. You bill yourself as a self-styled expert on the desert and you don't even know what a whoop-de-doo is? Your honor, pardon me while I throw up. There. I feel

much better now. I thank the bench for its indulgence.

"Now, back to you, Ranger Booring. When kickstarting a Husky, should you light it off in neutral, or is it a primary kickstarting machine?"

"Why, uh. . . that is, I mean. . .

uhhh, er. . . . '

"Just as I thought. You don't know that a Husky must be started in neutral! Astounding!!! Amazing! Alarming! And you call yourself an expert on the desert? Hah! Sir, you test the patience of this court.

"One more question, Mr. Booring, then I'll let you slink back to your chair. What is the difference between an enduro and a Hare and Hound? Quickly now?"

"Er, uh, I mean. . . that is, duh, I, I,

"Hah! Just as we thought! Mr. Booring, please leave the witness stand. Quite frankly, you nauseate me,

"Your honor, may I call the next witness, puh-leeze?"

"Certainly, counsel. By the way, everybody knows the difference between an enduro and a Hare and Hound. Jeez, that Ranger is a real dip. Proceed."

"For my next witness, yr' honor, I'd like to call the Propaganda Minister of the BLM, Mr. Ben Dover. Mr. Dover, would you please take the stand?"

"Why should I? I couldn't get over ten bucks for the thing at a swap meet. It's hardly worth the effort."

"Yr' honor," I pleaded, "can we get this bozo up to the stand?"

"All right, jerkwater. Get your buns up to the stand," ordered the judge.

"Mr. Dover, in your capacity as head of the Propaganda Department of the BLM, what exactly are your duties?"

"Basically, I take facts and figures and distort them to put off-road vehicle users in a bad light. Lemme tell you. this job is no picnic."

"Mr. Dover, is it true that you include bulldozers, tanks and earthmovers in the off-road vehicle category?"

'Sure. Those suckers can't roll down the San Diego Freeway, now can

"True, but in your affidavit, you claim that off-road vehicles caused the upheaval of 2.6 billion tons of desert land. Just how much of this was caused by bikers?"

"Nearly 40 square yards. And all of it in very sensitive areas."

(Continued on page 13)

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6 DIRT BIKE/ JUNE 1979

Last Over

Wet weather friend By Paul Clipper

"All right, ready? NOW!"

We both pushed up on the Cooper's handlebars and managed to move the front wheel about six inches before my foot slipped in the mud. My chin hit the grip just before I fell sideways in the slime. Naturally, without me on the other side, Supe pushed the bike over on me and then fell across it, completing what is referred to fondly as a New Jersey Sandwich - a combination of two guys, one bike, and plenty of NI swamp. Not to mention a generous helping of frayed nerves.

"Dammit Supe, if you'd clean that mag out now and then, we'd spend a lot more time riding instead of wallowing!"

"Yeah, well, you know, I can't stand the smell.'

"Is this any better?" I asked, in the most patronizing voice I could muster, indicating the reeking swamp with a flourish. "This ain't necessarily a rose garden!" My grammar was suffering along with my humor.

"Yeah, a lot of thorns, just thorns." "And I get stuck more ways than one, every time I go riding with you." Caustic wit, simply caustic.

"Sorry about this." Supe was

genuinely sincere.

'Well, don't make any plans for next Saturday, 'cause we're going to waterproof this pile of scrap metal. Ieez. I can't stand it! This is the last time we go riding with you at the end of a tow rope!"

The rest of that day, although it may be exciting to the uninitiated, causes me great pain to recall, so it's better left unsaid. Suffice it to say we escaped, I towed him back to the truck, and we took the bikes back home, his to the kennel, where it belonged. It only takes about three and a half bucks at the two-bit car wash to clean off a generous portion of pine slime, and that's riding gear included. Money well

Next Saturday morning, I gathered up my tools and headed over to the garage. I was riding a Puch at the time, one of the most totally waterproof bikes in existence, so it didn't need very much shaping. It had a shroud that covered the carb, air box and electrics, and to this day, I still can't figure out where it breathed from. I don't think it used any air at all. Which was the exact opposite of Supe's Cooper.



That Cooper had an insatiable appetite for air. It sucked it past the mag cover, the carb boot, the clutch cover, brakes, and even the wheel bearings. Just a little bit of water splashed on the bars would short out the kill button and produce the Mexican version of electroshock therapy. That is, if it was still running by that time. But, that was all due to change, by God, even if we had to encase the whole bike in plastic.

Supe came stomping in shortly, spilling his ever-present cup of coffee over everything — a sort of caffeine blessing — offered a few words of encouragement — "Grab a root and dig!" — and we got down to work.

The first things to come off were the seat and tank, naturally. It just isn't possible to waterproof a bike without taking these two off, and besides, it gave us a chance to scrape the mud out of the high spots. We drained the oil, put the bike up on a crate, then pulled

off the mag and clutch covers. Gack, what a smell. Pure essence of swamp gas had been distilling inside the mag for about a month. I could see why Supe didn't like to open it up. He dragged the drain pan out from under the bike, and it looked like it was full of chocolate milk.

"You spill your coffee in that?" "No, it's all oil."

"Yeech."

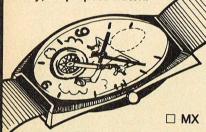
Water had been sucked into the cases. This isn't the best mixture for transmission longevity, so we flushed the gearbox out with Stoddard solvent as well as we could, and then glued on the clutch cover with Permatex. Supe scraped out the mag while I tightened up the cover (E-uu, I don't want to touch that stuff!), and proceeded to time the bike. I believe the points rubbing blocks for the Cooper were originally made out of goat cheese, because this bike needed timing at

(Continued on page 72)

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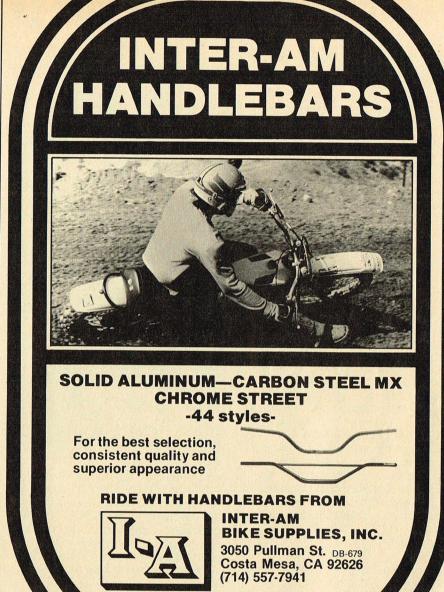
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Mr. Know It All

Kal-Gard kwestion

Dear Mister Know-It-All,

In the Feb. 1979 issue of DIRT BIKE. there is a section on racing secrets for 125s, which I read and was very impressed with. What I need to know is this: 1. How to get Klotz Octane Booster? 2. How to get Kal-Gard Gun Kote? 3. When using the Kal-Gard Gun Kote externally, should I get the head and cylinder glass-beaded first and then apply it, or just apply it over the paint? and 4. How long and how hot should it be "cured" in an oven?

Mark Harper Aiken, South Carolina

For cryin' out loud, Harper, you really should have known! All these fine products are available from Krause Racing, with little more effort than a phone call or a letter. The Octane Booster sells for \$3.95 a 16-ounce can, and the Kal-Gard Gun Kote sells for \$6.95 a can. When Gun Koting a cylinder and head, I recommend that you strip any coatings or paint from the surfaces. Glass-beading is not a bad idea. After applying the Gun Kote, I cure it in the oven at about 300 degrees for approximately two hours. Next week, Harper, we'll cover pot roasts. And just in case your memory fails you, the address of my shop is 305 E. North Ave., Northlake, Illinois 60164; phone is (312) 344-2233. You should have known.

Mono money

Dear Mr. K.

I have a '78 YZ100, and I need a new monoshock. Should I save up my money for the rest of my life and get a Moto-X Fox Mono Air Shox, or get a stock one?

Eddie Thomas Melville, New York

Relax, Thomas, according to my calculations, you should only have to save up for approximately half of your life span, and by then you'll be able to afford the Al Baker mono modification. It's a little less expensive alternative to the Fox mono-air, and the result is a fade-free 11 inches of rear wheel motion, with dual-rate springs, and all for around \$148. Simply box up your old mono unit and ship it out to Al Baker's R&D. Forget the stock unit. You really should know better.

Wet shoes

Mr. Know-It-All,

I hope you will answer my letter, even though I don't make any wise-



cracks or jokes. On my CR Husky 390, 1978, the brakes go away completely when they get wet. All brakes do this, but the Husky's take forever to come back and are much more affected than any other bike I have ridden. I have changed shoes and have grooved the shoes but it doesn't help much, if at

Dealers have told me there is no cure for this problem — what do you think? Rex McClellan Philo, California

Make up your mind, McClellan, are we going to eliminate jokes from this dialog or are we going to discuss the Husky brakes! There is a definite cure for the problem of hydro-induced brake fade, and the solution is not expensive. The most little-published secret in brake technology has been the use of Lakewood brake shoes. They are undeniably superior to anything else offered on the market today, yet very few take advantage of their performance. Preparing the brake drums for the installation of the Lakewood shoes represents the major part of the task, and it is nothing more than perhaps an hour or so of tedium.

A set of Lakewood shoes for your Husky would sell for \$25 for the pair. I would recommend that front and rear be replaced. The shoes are also

available for the Maico, and work wonders for those brakes. The price per pair is the same. My shop carries a full selection in stock, or you should be able to procure the shoes at most any race-oriented retail outlet.

Trail confusion Dear Mr. K,

I am an avid trail rider and I am looking for a new bike. I presently ride a dual-purpose 125 Kaw. It is a great bike for messing around, but not for serious riding. Several people have told me to buy a bigger bike because I am 16 years old, 5'8" and 155 pounds. I would like to compete in local enduros also. I am considering the Yamaha IT175F and the Honda XR185. As far as I am concerned, it is a toss-up between both of them.

Now, according to you, the Yamaha is the best buy in its class again, but the four-strokes are supposed to be the bikes of the future. As for dealers and parts, the Yamaha shop is 25 miles up the road. The Honda shop is about 11 miles up the road. Most people tell me two-strokes wear a lot faster, but my 125 Kaw is still on its original piston and rings at 5500 miles, and there's still a lot of pep left in her. In my opinion, four-strokes are a lot harder to work on and cost more to rebuild inside. Weight is basically the same on both bikes.

One final comment, I like the sound the two-strokes make more than I do four-strokes! Well, which one should I buy, in your opinion?

Trailbikingly yours, One Confused Biker!

One thing is for sure, you are confused. Reading your letter reminded me of watching a man play Ping-Pong by himself. No matter what he did he was going to win, and he was going to lose. The IT would be the bike to pick if you're interested in a sharper competitive edge on your hardware. If you're interested in a real sweetheart of a motorcycle and a lot of pure fun for the dollars, the XR is a real hard bike to walk away from. In my considered opinion, there's only one sane, rational choice. Quit whimping around, and pick up a used 501 Maico and have it bored, and go for the world's record.

If you would like to ask a reasonably intelligent question of Mister Know It All, take pen in hand and address it thusly:
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Also available are the new-style Griffs nylon MX pants along with a full line of riding apparel.

For more information: Answer Products. Inc., 7831 Alabama Ave. #8, Canoga Park, California 91303, or send \$2 for a complete



BREAK THE WIND

New from Can-Am is this Oxford woven nylon windbreaker, stylishly crafted in white with orange and red stripes. It is said to have a mandarin collar and a contrasting red zipper, but we won't hold that against it. It also has two pockets just right for your, or even someone else's, hands. What you do is up to you. For more information contact your local Can-Am dealer or: Bombardier Corp., P.O. Box 6106, Duluth, Minnesota



NEW ENDURO RACER INTRODUCED BY VDO-ARGO

A new, more rugged Enduro Racer has been introduced by VDO-ARGO Instruments, Inc., the world's largest independent manufacturer of motorcycle and automotive instruments.

This time/distance gauge is used in combination with an accurate watch to help the enduro rider maintain a steady average speed (usually 24 mph) over a set distance. and shows how far he's gone since the last checkpoint.

The VDO Enduro Racer includes an odometer and convenient side reset knob that can be run in tenths, both forward and backward. The instrument is housed in a matte black case with night-lighted 3-1/8-

Further information about the entire line of VDO enduro, biker and touring instruments including specific applications of each, is provided in a new, full-color brochure available free from VDO-ARGO Instruments, Inc., 980 Brooke Rd., Winchester, Virginia 22601.



MAICO MAGNUM/ENDURO SWINGARM FROM CRF

Crotch Rocket Factory introduces its trick aluminum swingarm for the Maico Magnum and Enduro. This arm was used by Darrell Shultz in his '78 Sears Point victory and for '79 by 250 factory rider Danny "Magoo" Chandler. Each arm is 6061 T6 aluminum, heat-treated, available in forward or 17.5 mounts, and color-matched to a high-gloss Maico red. Retails for \$159 and is warrantied for one year. The complete 1979 catalog of CRF engine and suspension components is available for \$2. For more info contact: Crotch Rocket Factory, Box 2084, Goleta, California 93018; (805) 968-1786.



PEEKING DUCK

Another neat product from the people who brought you the DeHandler levers, available in aluminum or plastic from aware dealers everywhere, is the Peeker. The Peeker is a non-visor that is as clear as a bell, but shielded in the necessary spots for sun protection. This means you can still duck mud balls, and look right through the visor. Peekers are available through the same fine dealers, or: Sun Line Inc., 7045 Darby Ave., Reseda, California 91335.



CARRERA SHADES

Carrera sport sunglasses are the hot new rage in the two-wheeled set, and are available in two lens styles, the CR-39 gradient, and polarized. The Top style, shown above, part #07-5512, is one of the most popular models, and has the classic Carrera logo on the front. They are all totally unbreakable, and the lenses are scratchresistant. The Top is available for \$25.50 from your local Carrera dealer or the western distributor of Carrera products - Jim O'Neal Distributing Co., 18340 Gualt St., Department DB, Reseda, California 91335.



NEW KTM TANK FROM CLARKE

Looking for a replacement tank for your old Penton or KTM fiberglass unit? Clarke Manufacturing has long been famous for high-quality plastic tanks, made with a special O-ring cap that is one of the most leakproof in the business. This is a motocross-style tank, and will even work on the 1978-79 units. It is made from Phillips crosslinkable polyethylene and is available in a variety of colors, including red, white, blue, orange, yellow, silver or green, and also features a one-year quarantee. For more information, descriptive literature or prices, contact: Clarke Mfg. Co., Rt. 1, Box 576, Mulino, Oregon 97042.

FROM THE SADDLE

(Continued from page 7)

"Such as where and what?"

"Well, those crazed bikers absolutely destroyed the possibility of vegetation on El Mirage Dry Lake. There's nothing growing there at all and bike tracks are all over the place."

"Mr. Dover, according to our figures, nothing has grown there for the last two million years."

"Probably the result of early cave man bikers. I'm sure that unruly sort of element existed even back then. If they didn't have off-road vehicles in the past, they must have at least wanted them. And, as the Bible says, if you commit the sin in your mind, that's as bad as actually having done it."

"Isn't that prejudging a bit, Mr. Dover?"

"That's my job, Mr. Sieman. Fair play has nothing to do with this. It's our job to preserve all of this desert land. If this generation is allowed to use the land, it might be unfair to those yet unborn."

"I see, Mr. Dover. In other words, you want to keep this generation of people from using the land, so the next generation of people cannot use the land, so they can save it for the next generation, who will also be forbidden to use and enjoy the land, too."

"Precisely, Mr. Sieman, I think you've captured the essence of our policy. We protect and save the land so no one can ever use it. That way, we can appreciate it even more."

"Mr. Dover, about this protecting the species stuff. Can you fill us in on the BLM's policy about that?"

"Certainly. We have all taken an oath that commits us to protecting the cute, little furry creatures of nature. Without the shield of the BLM, who knows what would happen to the Blunt-nosed lizard and the Snail-darter fish. However, with their well-being and safety in mind, we have successfully closed down areas to recreation and energy. God, but it's a great feeling to save a lizard and shut down a dam!"

'But what about the people, Mr. Dover? Aren't they as important?"

"Hey, there are lots of people, but how many Blunt-nosed lizards are there? People are all over the place. In fact, there are probably too many of them around anyway.'

"Mr. Dover, do you realize that you're placing the worth of lizards and such above that of human life? Above the right of human beings to enjoy the earth they've been placed on? How do you answer that?"

"Picky, picky, picky. All you people do is bitch, snivel and whine. Don't you understand that the BLM had determined that the snakes, lizards and

(Continued on page 64)



Congratulations **Bob Hannah**

Congratulations to triple-champ Hurricane Bob Hannah and to Rick Burgett and Broc Glover of Team Yamaha, this year's first place finishers for national motocross competition.

Bob, Rick and Broc captured every first place in the entire five event Series on Sun Rims. An unprecedented coup for their team, an unparalleled performance by the Hurricane and an indisputable testimonial to Sun Rims.

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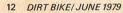








Sun Metal Products, Inc. P.O. Box 1508 Warsaw, IN 46580







Riders Write

Geeks and such

Glad to see DB back to normal again. It's been a while since I've seen a magazine with as much backbone. It really reflects in the whole issue.

Your best article was about the Phantom Duck (March '79 DB). It felt good seeing the BLM get screwed by the Duck. I'm not surprised to see the "new" DB (or should I say the old, original DB) in there raisin' hell. If you intend to call the BLM a bunch of slack-jawed pinheads and trained circus geeks, well then, I'll just keep on buying DB.

It's about time someone had the balls to call a geek a geek. Maybe you can get some real people in the BLM, instead of the imitations we have now.

Rusty Hopper Peterson A.F.B., Colorado

JT Racing data

(Sent to Dick Miller, MXA) Hi Dick.

Thanks for ruining my amateur photography standing by paying me for the photos you used in the MX des Nations story. Until I learn to focus a little better and feel I truly earn this \$155. I'm sending back the money and asking if you will forward it to the Phantom Duck Legal Fund. Every duck should have his day!

John Gregory JT Racing

(Ed. note: This is the third contribution we've received for the Phantom Duck of the Desert from John Gregory. He's been one of the first to get behind the movement and definitely one of the staunchest supporters.

Sticking throttles Dear DB.

I just finished the February '79 issue. which contained the interview in which Kent Howerton mentioned the sticky throttles which are plaguing the works Suzukis. I had a problem similar to that on my RM250A a few years ago. In my case, the throttle cable was routed too near the pipe, and after a few laps the heat would cause the nylon liner to swell up or become tacky, thus binding the inner cable. Since it functioned fine when cool, it was a bit tough to diagnose, and as you can

imagine, it was a real pain until I fixed it by rerouting the cable. I hope this is the cure for Roger and Kent as well.

Power Pickle Blacksburg, Virginia

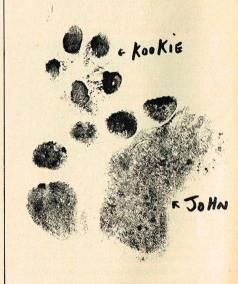
Thanks for the tip. Anyone else out there with a trick to share! Send 'em in to us and we'll print the good ones.

From Kookie, The Wonder Dog Dear Rick, and Duck,

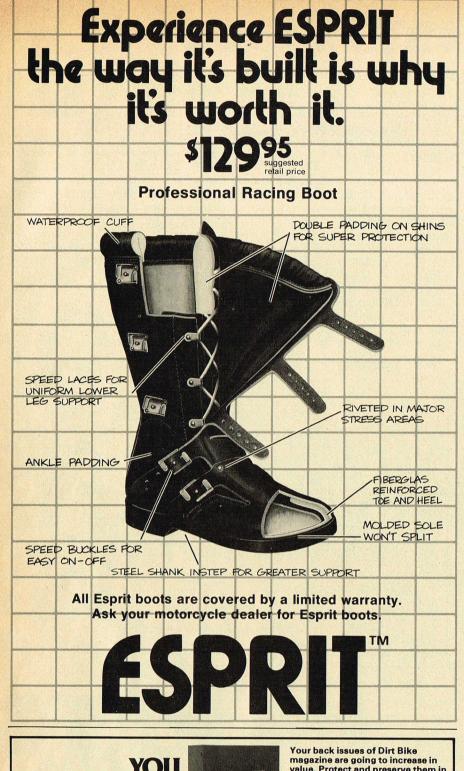
I'd like to give a wag of the tail and a hearty "WOOF" to the Phantom Duck and Rick Sieman. With their efforts I may someday get to ride on the same gas tank my Daddy did, on the Barstow to Vegas race. I wish I could bite the legs of all the people who turn their tails between their legs and ignore the fact that the BLM is raping us of our land. Getting back Barstow to Vegas is just one paw toward retrieving our right to ride. This dog fight applies to all of us, anywhere Big Brother government has restricted us from riding. The battle for Barstow must be won, so that a precedent can be made.

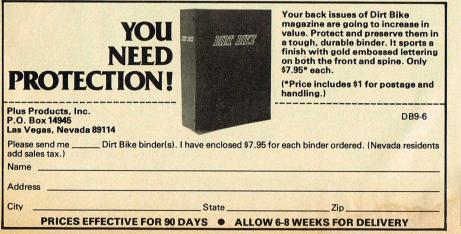
Please, dig a few bones out of your wallets and fetch it to the Duck.

> "Fang"k you, Kookie, the Desert Racing Dog, and John McCown



We welcome correspondence, thoughts and ideas. Address all letters, bomb threats, bribes and generalities to: RIDERS WRITE c/o DIRT BIKE MAGAZINE







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CITY STATE ZIP JUNE 1979 DIRT BIKE 15

Bits and Pieces

What happened to From The Saddle in the May Dirt Bike?

Good question. When the art work left here for the printers, the full "From The Saddle" was pasted down properly. However, due to an error in the stripping department at the printers, a worker cut in the first page from the April DB. Thus, we ended up with the lead to the April DB and the balance of the column was correct. Grim. For all those folks who got confused, here's the lead to that column, titled appropriately enough, "Life in the Fried Lane."

The warning I am about to give to you will make The Omen look like a recipe for marshmallow fudge. Heed my words, and you might stand a chance. Ignore these words and...well, I don't want to get into that part of it.

What I am about to relate is not pretty; not fun. Nope. It's grim, dirty stuff. Like mopping up after the main troops have cleared the enemy village. But, seeing as I am a big-time motojournalist, it is my sacred duty to warn and inform you about the deadly phenomenon we commonly refer to as Working Late.

Working Late usually happens when you absolutely have to get a bike ready for the big race tomorrow, and you've put all the work off until the last possible evening. This often translates into an All-Nighter. All-Nighters are the most advanced form of Working Late. Strictly Expert-level activity.

To give you an idea of how genuinely miserable an All-Nighter can be, I must relate the following tale. Sadly, I must also report that this tale is true. And that's the worst part.

Friday night. It was cold. I was working in a cold garage beat in Granada Hills, California. My partner,

Los Angeles, California — Bell Helmets Inc. has posted \$34,600 in contingency money to become a major sponsor of the 1979 Winston Pro Series, the National Championship motocross series in all three classes (125, 250 and Open) and the stadium motocross series.

The total posting includes \$15,800 for the AMA Grand National Championship/Winston Pro Series for Class-C riders, consisting of road races, dirt track, short-track, TT, mile and half-mile events. The remaining \$18,800 has been posted by Bell for the AMA National motocross series and the AMA/Toyota Supercross Series.

Super Bowl Duck deal

Here's a chance to get tickets to the Super Bowl and help support the Phantom Duck of the Desert. Mike Goodwin is making a special offer that's good until June 1, 1979.

When you send in for a \$15.00 VIP ticket (the best in the house), Mike will contribute \$3.00 off the price of the ticket and send it in to the Phantom Duck Attack Fund.

Here's how it works: For each \$15.00 ticket, just send in two checks. One made out to Stadium Motorsports for \$12.00 and another made out to the Phantom Duck of the Desert for \$3.00. This offer is only good until the first of June, though. Those VIP seats, by the way, are right next to the Peristyle

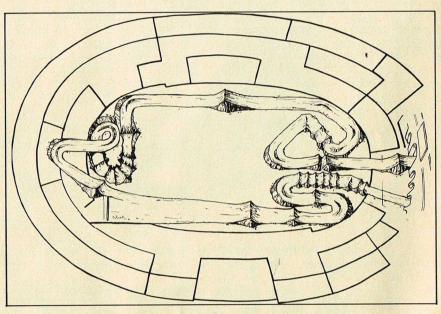
jump...the favorite spot on the track for watching the racers fly.

The Phantom Duck will be at the Super Bowl, too. We think that Mike Goodwin should be congratulated for his support. With more folks like Mike taking the lead, we can help open up more land for riding across the whole country.

A new feature of the Super Bowl track this year, will be a corkscrew downhill, wall-of-death-type turn off a 12-foot wall. Whew!

For tickets or info, here's the address:

STADIUM MOTORSPORTS P.O. Box 1523 Laguna Beach, California 92651



In all events, first-place finishers who wear Bell Helmets will be awarded \$250. Riders who wear Bell to second- and third-place finishes will win \$100 and \$50, respectively.

We read a little piece in the paper the other day, about the National Park Service wanting further control over the use of snowmobiles in national parks. Their only problem, as they see it, was to adopt a system that would make the vehicle users happy, while still protecting the park environment. It is terrible, what those snowmobiles do to a virgin snowfield. Sometimes it takes a whole season for enough snow to fall to cover the tracks.



Is this the infamous Under-the-Hill gang that we all know and fear? The group of crazed geeks that wreak havoc on department store dressing rooms the nation over? Nah. It's just a shot of all the national riders who will be wearing JT riding gear this year. Also on the list, but not pictured, are Danny LaPorte, Broc Glover, Heikki Mikkola and Chuck Sun. Quite a lineup.

The AMA is at it again! After Jimmy Weinert burned the Oakland Superdome with a paddle tire, and the Florida Series started with some of the riders "paddling" their way through the sand, the AMA saw the potential hazard of such a tire and subsequently banned their use. We at DIRT BIKE feel

that riders should be proud to have such an organization looking out for their interests. Complete rule change reproduced below. Now, if we could only get them to limit suspension travel to six inches, front and rear, we could *really* make this sport safe!

TO: ALL MOTOCROSS RIDERS AND MOTOCROSS REFEREES
FROM: Michael A. DiPrete, Commissioner of Professional Racing

SUBJECT: Interim Rule
TAB: V-Equipment

RE: Chapter IX, Section 9 (TIRES) of the Motocross Rule Book:

PRESENT RULE:

a. Studded tires other than rubber are prohibited.

NEW RULE: (Effective February 14, 1979)

- a. Studded tires other than rubber are prohibited.
- b. Retreaded and/or recapped tires are prohibited.
- c. "Paddle tires" and/or any other tire tread design of this nature that tend to throw sand, dirt, stones, etc., farther and higher than a normal knobby tire are considered a safety hazard and are prohibited.

How would you like to ride a steamboat on the Mississippi River? And spend your time drinking, eating, and basically partying to the rhythm of Dixieland jazz with all the factory riders, mechanics and other celebrities? Well, if you happen to be in town for the New Orleans Superdome on June 2nd, and need something to do on Friday night, give Turnstile Productions a call at (504) 866-4563 for all the info. Looks like it promises to be one heckuva party.

There is a sequel to On Any Sunday in the works. That's right, the filming started in January, under the production of Four Way Motorsports. Among other notables, Larry Huffman's narration will be featured, and Don Shoemaker, the cameraman for the original film, will be behind the lens for this one, too. It is supposed to center on the European racing scene and the Americans involved therein. We hope this one will be just as fine as OAS#1, and we promise to get a copy of the soundtrack as soon as it comes out, thank you.



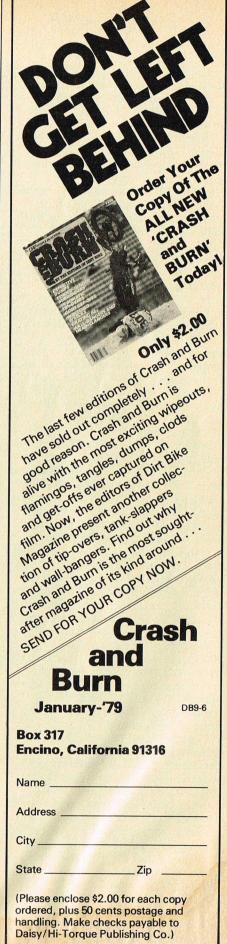
Do you ride a Maico? If so, you may be interested in their support/sponsorship program. It details their complete contingency program for motocross, both national and regional, enduro, and ISDT Qualifier series. If you're a better than average rider, this may be your big chance to gain a little support, maybe even a factory ride. For a copy of the program send 50 cents to: Maico USA Sponsorship Program, 1256 Progress Road, Suffolk, Virginia 23434.

IT/YZ WRETCHED EXCESS DEPARTMENT

For all you owners of the YZ and IT400F, and we specify the "F" only, you can now build your motor to monumental power levels. Yamaha is offering their OW kit which increases the displacement from 396 to 426cc.

This OW package includes a 3mm-larger piston, ring, pin, clips and gaskets to be added to a bored stock barrel. Bore is increased from 82 to 85mm. The OW kit (part #2X5-W1160-00-00) will run about \$50 and be available by the time you read this.

Even if you don't want that extra gob of beans right now, it's nice to know that you have a wealth of overbores on the stock barrel. It should provide even more longevity to the usually bulletproof Yamahas.



Legal Update

Here we are; we've just left the Federal Court Building in downtown Los Angeles. Two months from now, we have to appear in the court again, to answer a charge of contempt. The reason for the contempt charge? The government says that we violated a court order and "promoted" the Barstow to Vegas Trail Ride, and did nothing to stop the "event."

How does one stop a protest by the public? How does one keep an angry mass of dirt bikers from letting the world know how they feel? The Phantom Duck Trail Ride has become symbolic of the frustrations of the off-road riders of the nation. The BLM took the Barstow Run away for a pathetically limp reason. The riders knew this. They took a deep breath and said, "Dammit! I'm mad as hell and I'm not going to take it anymore." Sure, the thought is straight out of the movie "Network," but it's still valid.

In actual fact, the BLM created the Phantom Duck of the Desert Corporation. They created their own monster. Frankenstein. Phantomstein? Perhaps it's fitting. The BLM, with infinite power over the public lands, has been infinitely corrupted. Anyone who disagrees with what they do, becomes a target.

Shades of Joe McCarthy! Remember reading about the witch hunts of the late '50s? That's when Shirley Temple and Lucille Ball got hauled into court for being "sympathizers." Have we not advanced to the stage where we can avoid this ludicrous sort of purging those who disagree with a system?

If we didn't have the backing of the riders from across the country, chances are we'd be in jail right now. As you might know, we formed the Phantom Duck of the Desert Corporation not too long ago. The President is none other than the Mighty Mallard himself, Louis McKey, the one and only Phantom Duck. Vice-President is his right-hand man, Al Fols. The third member of our non-profit corporation is the editor of DIRT BIKE, Rick Sieman. He holds the post of Secretary/Treasurer.

Together, the Phantom Duck Organization has turned the apathy of the bikers around and given them a way to fight the BLM. When we first resisted the efforts of the Bureau of Land Management, we started a Legal Defense Fund. Once we won our first minor victory in the courts, we turned that into a Legal Attack Fund. We've been going after the BLM and their scum tactics, and now, we find ourselves in a Battle Royal.

One of the things that keeps our spirits high, is the word we get from fellow dirt bikers across the nation. When they send in a buck to arm the

LETTER FROM THE HORNEY TOADS

Phantom Duck Feedback By

The Phantom Duck, **Rick Sieman and Al Fols**

Duck, they often include a letter. Some of them are magnificent:

Dear Mr. Duck:

It's freezing cold out here with almost no land to ride on anywhere. It's not a bit like California. I came from Colorado a year or two ago and I already miss the land. I don't have much out here, but there isn't any reason why good biking citizens like you can't ride where you want.

I wish you much great luck in our battle. I wish more bikers were like you. Keep up the good work. I've enclosed my dollar to save the Duck. It's my last bill in my billfold, but it's going for a good cause.

Sincerely, Claude Alan Cutshaw At age 15, a motocrosser and Duck supporter

Dear Louis:

There are a dozen things we wanted to say, but let's just say that maybe this will fade a few people who can't send a buck.

My \$25 was going to buy a new first gear for my bike. But if we don't start standing up on our political hind legs and doing something, we won't need first gear. Give 'em hell.

Sincerely, Jack Fahey and Walt Lister Gardena, California

Hello Duck:

I really admire what you and your organization are doing in your crusade against the BLM. Here in Utah, we are beginning to have our own problems with the BLM, probably like California was four or five years ago. This is the second check I've sent and I hope to help out more. Thanks for giving me the chance to participate. Maybe a

branch of the D.M.A. can be started in Salt Lake City.

John Bell Salt Lake City, Utah

Quach* (That's German for Quack!) Here's two bucks to save the Duck. Hell, I wish I could afford more, but it's all I can spare right now.

It's about time someone stood up to the Giant and sent a rock to his head (or up his butt, as the case may be).

Needless to say, I'm a dirt bike rider, too. Down here in Southern Louisiana, we ride mostly on a chunk of property belonging to Crown-Zellerback, Inc. Of course, it's private property, but no telling when they might shut us off and leave us with no place to ride.

So, here's some help for the Duck. After all, us birds have to stick together.

Ray P. "Big Bird" Lambert Chalmette, Louisiana

Phantom Duck:

I wish you lots of luck in your battle. We face the same thing up here in the near future. We get tickets for riding off the trail, but the big logging companies punch in roads that destroy ten miles of trails and meadows

There is no justice.

B.E. Marsh Yakima, Washington

P.S. Give 'em hell!

Give 'em hell!

Fred Hempel Edina, Minnesota

Dear Duck:

At least you guys in California have public land, even if they do take some of it away. In North Texas, there is no public land, but I still support your fight.

> R. Barton Fort Worth, Texas

To the Duck:

Although I don't live in California, we have the same problems here even in the backwoods of Idaho. Will be watching with great interest to see what happens. Hang in there and fight.

Leon Hendrickson Weiser, Idaho

You've got my support. The article in DIRT BIKE should be sent to every legislator in Congress and the President.

Doug Reifh Raleigh, North Carolina

Dear Duck:

I have followed your adventures in the bike mags and am sending, as you suggested in DIRT BIKE (March '79), one dollar for myself and one dollar for (Continued on page 69)

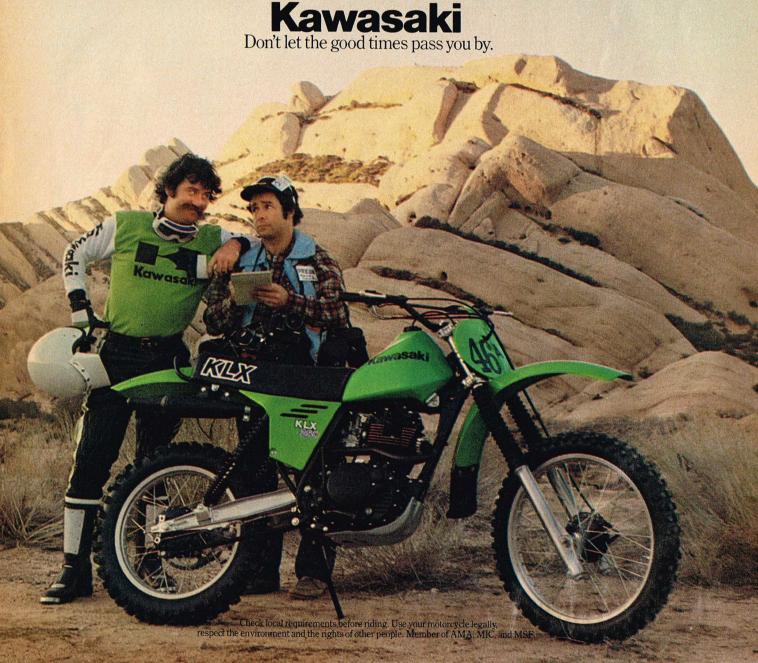
What made Dave Four-Stroke' Reiner say, "What rocks?" The KLX250.

Dave liked things smooth. The Kawasaki KLX250 seems to take the rocks out of any trail. In fact, for serious off-road riding, it's hard to beat. Kawasaki wanted it that way.

They took the race-proven KX chassis with its strong, lightweight, I-section aluminum swing ignition. A 2.5 gallon gas tank. A resettable arm, and added the best engine they could create. A tough 246cc four-stroke single. Then they made it as maneuverable as possible. 9.8

inches of travel front and rear with adjustable air-spring forks. (Try finding that on the competition!) And the KLX250 clears the ground with 12.8 inches to spare.

Nothing was too good for this bike. CDI tripmeter. And the whole bike weighs in at 233 lbs. The KLX250. Everything you need for off-road riding.





Suzuki. The performer.

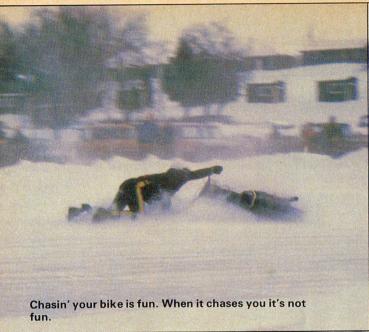


How To Race On Your Favorite Lake

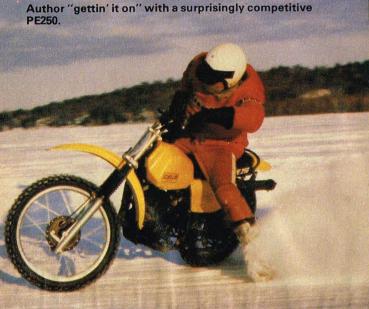
Here's how they do it where it really gets cold

By Ron Godridge

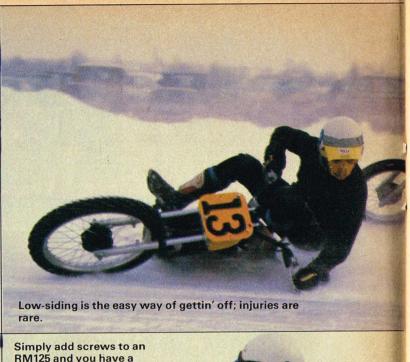


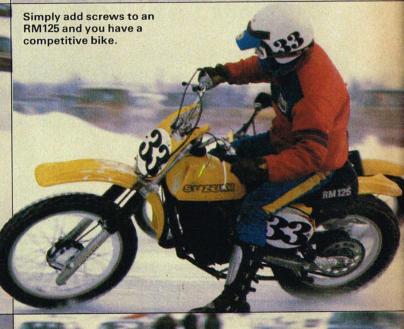






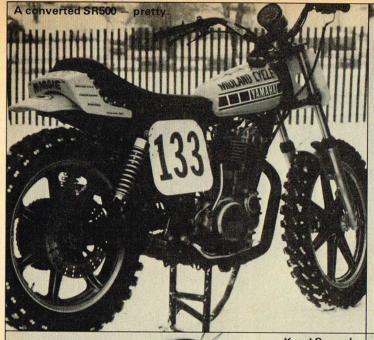
through a turn on the half-mile oval.





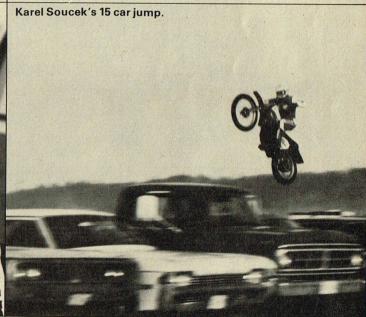


Photos by Ron and Barb Godridge





Karel Soucek.



Cold weather sneaks up on us in the north. Cool days slide into cold nights and the next thing you know, there's snow on the ground. Cold makes us do funny things: feverishly devour the latest motorcycle mags, actually read performance tests on Harleys, and yes, even dig up old DIRT BIKE magazines and check out their road test of the CX500 Honda. In winter we daydream a lot, picturing ourselves on the latest of high-zoot root-rippin' bikes, surrounded by scantily clad beauties in the mecca for bike riders — California.

However, there is one way, we have

(Editor's note: Ron hails from Penetang, Ontario, Canada. Cold! Don't ask.)

discovered, to put in the winter other than cursing snowflakes individually. We have found a way of converting our beloved dirt bikes into winter wondermachines. Thirty bucks' worth of sheetmetal screws (about 1000 selfthreading screws), put into the tires, will do it. Traction on the ice, the result of the sharp lip on the head, is nothing short of fantastic. Wheelies and full-lock broadslides are as easy to do as falling off your bike.

Many types of studs are used, but the most common are ¼-inch head about 1/2-inch long. These can be put painlessly into most knobby, trials or flat-track tires using a socket in a vari-speed drill. This does little harm to a tire, you don't even have to remove it from the bike. To avoid sparks on stones and pavement,

remove the screws before riding in the

Many racers use 34-inch and one-inch long studs, but to avoid tube punctures they put an old street tire carcass inside the tire. These same racers have been known to spend countless hours and dollars getting the right combination for the ultimate performance.

Just about anything goes for the bikes used on the ice. Motocross, enduro, trail, flat-track and even converted street bikes are seen on the ice every weekend. Bikes of all ages and nationalities provide tremendous excitement at the frequent winter carnivals.

It might not be California and temperatures in the 70s, but, dammit, it gets us through the long cold winter.

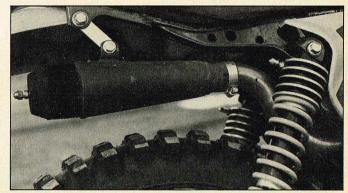
Building Next Year's TT?

PROJECT: KING KONG

A better Yamaha thumper **By Ned Owens**



Project King Kong begins to take shape with longer legs and a modest weight reduction.



White Brothers' bolt-on rear pipe section comes complete with brackets, bolts, clamps and extra Super Trapp discs to fit stock head pipe. Gained are an increase in performance and a

It used to be that almost any off-road bike was a good candidate for a lot of modifications. Shocks, forks, carb, air box, fenders, spokes, rims, tires, engine, ignition, tank and even seats all got some kind of treatment. Many times, the owner of an old CZ, Bultaco, Husky, Honda or Suzuki — just to name a few — had nothing left stock on the machine but the frame.

But as bikes get progressively better each subsequent year, less and less has to be done to the racers, until now where some of them are as close to perfect as is possible on a production machine. The Suzuki RM125N is a very good example.

Despite this, there are always a couple of bikes that, for various reasons, are extremely popular as off-road machines, but have not been put through the evolutionary changes, massive engineering and design thought — and budget — to which the motocrossers are subjected

Most of the machines in this category are usually warmed-over dual-purpose machines that have

picked up a large off-road following. One of these machines is the Yamaha TT500. Obviously, the main attraction of the TT500, over other largedisplacement dual-purpose bikes, is its massively powerful four-stroke heart.

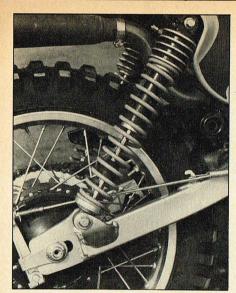
Although the TT500 has gone through a series of evolutionary changes, most of them are quite modest compared to the MXers. Still, the TT remains just a dual-purpose machine turned into a play-bike. For many riders these shortcomings are of no consequence. But for the guy who wants all the torque and grunt of the big thumper, but needs a little more refined package, he must "roll his own."

As is evident by our test of the TT500F in the April '79 DB, we feel that there is a lot of room for improvement in many areas — with the notable exception of perhaps the engine. Can the TT500F be turned into a potent off-roader compared to the likes of the IT Yamahas, for instance? We decided to build up the TT and see.

With many project bikes, the first

step is to build more power to match the suspension. But in the case of the TT, it's the other way around. We will try to bring the suspension up to a par with the powerful thumper. Besides the suspension, the other obvious areas of improvement are in weight reduction, improvements in braking and traction, ease of maintenance, and lastly — for you gonzo power freaks more beans.

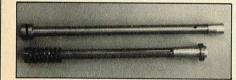
In each area, though, we're going to try several approaches, from the absolute low-buck end, to moderately expensive, to a third "wallets to the wind" expenditure that will humble even the Defense Department spenders. Our intent here is to build a good, legal off-road machine that will be as at home on the trails and whoopde-dos as it already is on the fireroads. While we're not building a motocrosser (as the Hunk did with the DR370), we are confident that the machine will be fairly competent on a track with a horde of other thumpers. Versatility is the key here.



Works Performance Gassers are the choice at the rear, with S&W Strokers as the option for those on a budget. Fifteen-inch units seem to be optimum.



Threaded coupler, found in almost any hardware store, fits not only the fork cap (right) but also the top of the damper rod and is necessary for removal of either.



Terrykit damper rod is one inch longer than stocker, and provides much smoother, more progressive fork

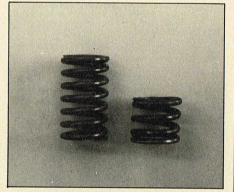
Forks

Yamaha's new leading axle forks on the TT500F are quite similar to those on the IT models, with a couple of exceptions. The damper rod/piston assembly is a one-piece steel affair with a fiber piston ring. Also, the fork cap has a 19mm hex socket in it. Fortunately, a simple 7/16-inch coupler (with a 3/4-inch hex), that is readily available at hardware stores. will effectively remove the fork cap. It is also precisely the same tool that is needed to hold the damper rod in position when the assembly Allen bolt is removed.

To achieve more travel and a higher ride height, without spending much money, we opted for shortening the topping spring. The stock topping spring length is 60mm (2.4 inches). This spring can either be replaced or shortened (cut and ground smooth) to end up with a spring that is 35mm (1.4



O'Neal fork caps provide a wider range of fork spring tuning. Valves are positioned to outside to avoid cable snagging.



Stock topping spring can be cut and ground smooth, or replaced with a shorter version from another bike. One-inch shorter spring nets the same distance in front end ride height and travel. (Note: Don't use this travel mod if the fork kit is used.)

inches) long. Usually when this method is used, an extra preload spacer is added to take up the difference, but in this case the stock preload spacer is too long to begin with and is pretty close with the short topping spring in place. (Shortening the topping spring is not recommended if a replacement fork kit with longer damper rods is to be installed, since it will require the stock length springs.)

To change the damping characteristics, we merely went from the recommended ten-weight down to Bel-Ray five-weight for smooth terrain. low-speed operation. This takes some of the harshness out of the forks, but it isn't a cure-all. (The stock rods are fitted with a long topping cone and a floating ring valve that appears to be more complicated than might be necessary. Hence, we ran into a few problems trying to modify the rods for

performance.) Approximately one inch of travel is gained by this method.

To provide a wider spring tuning range, we also added a pair of Jim O'Neal air fork caps. Pressure ranged from 4 to 8 psi with the stock springs and slightly reduced preload (as a result of the topping spring mod).

A slightly higher dollar approach, with much more dramatic results to boot, is the installation of a Terry fork kit. This simple drop-in kit provides one full inch of travel with much smoother, more progressive damping. We used 240cc (eight ounces) of Bel-Ray 20-weight fork oil per leg. Since the Terry rods utilize the stock topping spring, we cut the stock preload spacer in half. With the O'Neal fork caps we added 2 to 6 psi depending on conditions.

Keeping in mind the budget nature of phase one, we went after some reasonably inexpensive S&W Freon Strokers (FE-10) with dual-rate springs from Al Baker Distributing. They were equipped with 80-175-pound springs (coded red/brown/red). Equipped with these springs, the TT is ready for flat-out hauling over rough terrain, but with a loss of low-speed sensitivity. As a kind of trade-off, we went for 75-155pound springs (red/orange/red). This is recommended for woods-type riding. These springs are calculated for 160-200-pound riders.

The longest shock that can be successfully used with the stock swingarm is 375mm (15 inches). The S&Ws net 194mm (7.75 inches) of rear wheel travel. With the use of any longer shocks, the chain just eats through the swingarm. Ride height at the rear is increased by approximately 25mm (one inch), which corresponds to our increase in the front.

(If the rider chooses only shock replacement at this stage, the stock forks must be dropped in the triple clamps to within 6mm (1/4-inch) of the top clamp. This brings the geometry back around to 30 degrees fork rake. If, on the other hand, the long shocks are used in conjunction with the Terry kit or the one-inch topping spring modification, then the tube-to-clamp measurement is approximately 32mm (11/4 inches). This allows adjustment in either direction for tight woods [tubes up farther or straight line/whoops stability [tubes down].)

For a higher-bucks approach to the rear suspension, we went for Works Performance shocks — the Gassers. These 375mm (15-inch) nitrogen/oil shocks are equipped with either straight-wound or dual-rate springs. We decided on the straight springs,

computed to the weight of a 180-pound rider, on fast trails. Works shocks are custom-built to the specifications of each rider and machine. Not only are the damping characteristics variable, but the "cross-over" points in the springing are also variable with spacers. Travel is a full 202mm (eight inches).

The improvement over the harsh, stock shocks is immediately noticeable. The shocks are supple on the washboard stuff, yet soak up the really bad, square-edged holes. The back is improved enough that we have reached the limits of the swingarm but that is a future problem.

Pipe
Although Yamaha went to a lot of trouble making some of the parts on the TT as light as possible (i.e. plastic air box, aluminum tank and skid plate, plastic seat base), it seems that their quiet exhaust system didn't receive the same consideration. The rear silencer portion of the pipe alone weighs 12.5 pounds. To help improve the gas exhaust flow and reduce some of the weight, but still stay reasonably quiet and USFS-legal, we installed the rear portion pipe and Super Trapp muffler from White Brothers Cycle Specialties.

The complete unit, including connector pipe, Super Trapp with additional discs, bracket, clamps and bolts weighs only 3.5 pounds, a reduction of nine pounds over stock. No cutting or fiddling is necessary, but we suggest drilling an 1/8-inch hole through the silencer body and connector pipe where they mate, and securing the two with a short sheetmetal screw. Wrap the hose clamp over the screw and the unit will stay together nearly indefinitely. It's just a precaution.

Power is up some already with just the addition of the pipe. It is noticed most in the upper range with an increase in top rpm. By reducing the number of discs (18 seems to be the maximum number for optimum power) more torque and mid-range can be obtained. Also, the fewer discs, the quieter the exhaust note is if you ride in an overly sensitive area.

Air filter

Another aid to engine breathing that works well in conjunction with the pipe is the addition of a K&N cloth filter element to the stock air box. It not only breathes better, but works longer in dusty conditions and will usually stay together much longer than the short hair foam element. Be sure that you use K&N air filter oil, or another oil made especially for the K&N cloth-type filter. We have seen

some filters that were treated with regular foam filter oil and were literally ruined. The heavy foam filter oil will effectively close off the breathing spaces in the cloth, and under highvelocity situations will suck a hole or tear in the cloth.

Chain guard

To help protect the cases if the chain should get tossed off in muddy situations, we installed a White Brothers case protector. This aluminum unit ensures that the chain will stay on the front sprocket. It also protects the shift shaft by keeping a tossed chain from bunching up in front of it. The guard can be used with or without the sprocket cover. An added advantage, especially if the sprocket cover is left on, is that it makes installing the chain easier after washing the bike or servicing the chain. (Of course, you remove the chain before you wash it at the car wash! Doesn't everyone?)

Oil line

Something that is inexpensive, but can save you some bucks in the future is the Pro-Tec high-volume oil line. Tuners find that under high-rev, racing conditions — especially when a high-lift cam and high-performance springs are installed — the camshaft and rocker arms can gall. The reason for this is apparently an oil passage in the head that is too small. The highvolume oil line feeds directly into the end of the cam at the exhaust valve side.

Installation is easy. Simply remove the metal line from the case to the upper right side of the head, plug that top hole with the supplied bolt and attach the new hose to the case outlet with the stock banjo bolt and washers. By running the hose up over the top of the engine the line can be hooked into the end of the cam tower through a special adapter. Simple and not even messy. The oil volume is increased by approximately 25 percent. This is a worthwhile mod, even if you don't plan to do any other engine mods.

Part II

In the upcoming part two, we'll get into carburetion and a high volume air filtration system (air box), do some brake tuning, and sorry to say for you F-model buyers a considerably stronger, longer and lighter swingarm. Thought that you had the swingarm problem licked with the Yamaha version? Not so.

We'll have some control changes and speculate on the possibilities of enduro lighting, and what's needed to wire this baby. The points ignition is going

to have to take a hike, as well as the push-pull throttle and carb — a tuning/maintenance nightmare.

Plug cap

Part of the reason, we understand, that the TT is such a balky starter is a result of the resistor-type spark plug cap. One way to handle it is to disassemble the cap and replace the resistor element with a piece of solid copper wire. We decided to just replace it completely with a Malcolm Smith waterproof plug cap. With just this simple mod, a much fatter, blue spark is evident at the plug tip. Starting is already more consistent — but it's no CDI.

Box scores

Fork kit	\$39.00
S&W Strokers, w/springs	\$115.00
Works Gassers, w/spring	s \$149.95
Pipe w/Super Trapp	\$47.50
Air filter	\$8.20
Chain guard	\$8.95
Oil line	\$9.95
Plug cap	\$1.95
Air fork caps (pair)	\$9.75

Where to get the goods

AL BAKER R&D

6878 Santa Fe Ave E Hesperia, California 92345 (714) 244-5425

For: S&W Strokers with dual-rate springs. Catalog \$2.00.

BEL-RAY

From your local dealer for: fork oils, lubricants.

MOTOCESSORIES

P.O. Box 824

Northridge, California 91328 For: O'Neal air fork caps, Works Performance shocks. Detailed price brochure: 50 cents, catalog: \$2.00.

MALCOLM SMITH MOTORCYCLES

7563 Indiana Riverside, California 92507 (714) 687-1300

For: spark plug cap, K&N air filter.

WHITE BROTHERS CYCLE **SPECIALTIES**

11611 Salinaz Dr. "M" Garden Grove, California 92643 (714) 638-1653

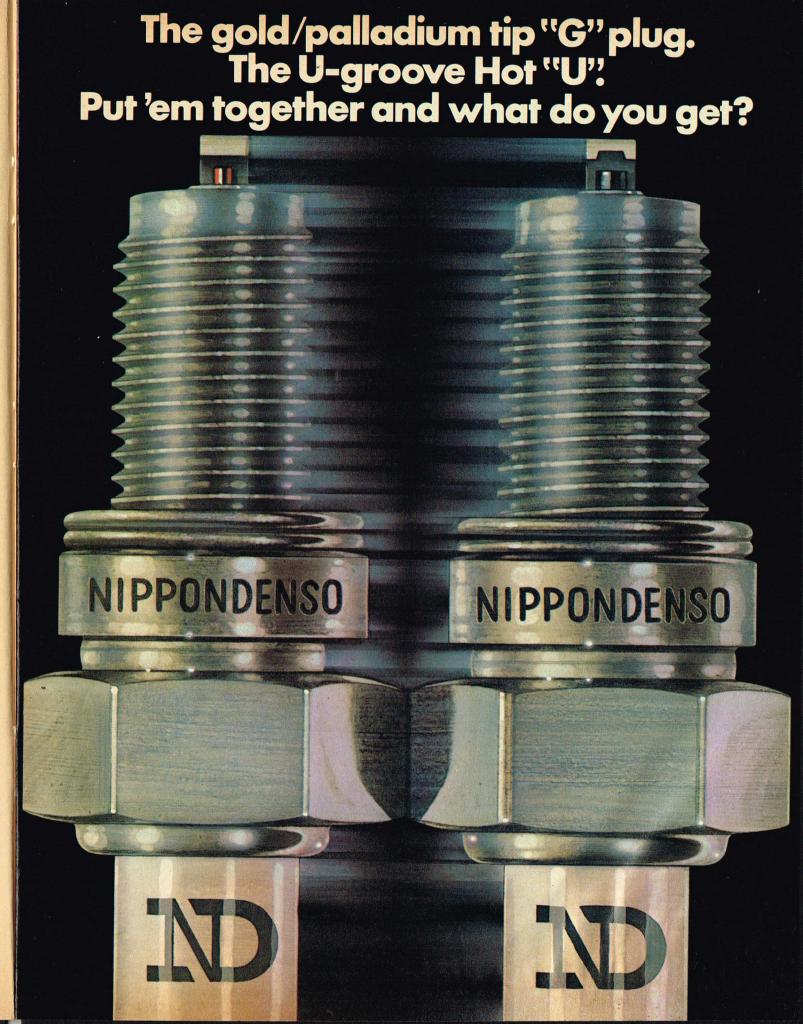
For: pipe with Super Trapp, case protector, Terry fork kit, Pro-Tec high-volume oil line. Catalog: \$1.50.

WORKS PERFORMANCE SHOCKS

20970 Napa St.

Chatsworth, California 91311 (213) 998-1977

For: original oil shocks, Gassers, and springs.



When ND designed the "GU" plug, we had one thing in mind: Remarkable performance.

To get it, we combined two of the most revolutionary ideas in spark plug history: Our Hot "U" plug's U-groove ground electrode, and our "G" plug's thin (1.0 mm vs. the normal 2.5 mm) fine wire center electrode.

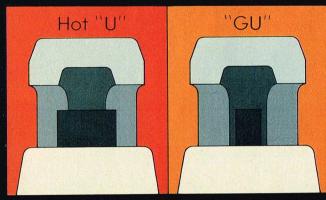
What we ended up with is a plug that delivers such great performance, even we can hardly believe it.

The "GU" gives you superior ignition.

And for that, you can mostly thank the special gold/palladium alloy we use to make the center electrode tip. It allows us to make the electrode tip thinner and still make it durable. (Note the difference between our Hot "U" tip and our "GU" tip in the illustration.)

That thin electrode attracts electricity better—just as a thin lightning rod attracts lightning better. So you get superior ignitability. And a marked reduction in misfiring.

Of course the U-groove does its part, too. It delivers a larger and hotter flash front. So the plug fires better, whether the mixture is lean or not.

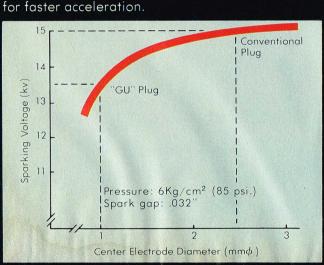


The "GU" gives you faster starting. And quicker acceleration.

Just check the chart below.

You'll find that during starting and idling, the "GU" helps your bike start easier and idle smoother, because it requires less voltage.

And at higher RPM's, it provides quicker spark for faster acceleration



The "GU" gives you better fuel economy.

With the improved ignitability, it's possible to tune your engine for a leaner mixture.

So you'll save gas. And you won't sacrifice performance.

The "GU" gives you the ultimate in high performance. Whether you ride a bike or a snowmobile.

Check into the "GU" today.

Be prepared for great performance. And be prepared to watch the competition get out of the way.

GU PLUG CONVERSION CHART									
THREAD SIZE	HEAT RANGE	NGK							
14mm reach ¾"	HOT COLD	W20ES-GU W22ES-GU W24ES-GU W27ES-GU W29ES-GU W31ES-GU	N-4G N-3G N2G, N86G N59G, N84G N57G, N82G	B6EV B7EV B8EV B9EV					
14mm reach ¾" project type	HOT	W16EP-GU W20EP-GU W22EP-GU		BP5EV BP6EV BP7EV					
14mm reach ½"	HOT	W20FS-GU W22FS-GU W24FS-GU W27FS-GU W31FS-GU	L-9G L-4G L-6G, L-4G L-3G L-2G L-55G	B6HV B7HV B8HV B9HV B10HV					
12mm reach ½"	HOT COLD	X20FS-GU X24FS-GU	P-8G P-7G	D6HV D8HV					
12mm reach 3/4"	HOT COLD	X22ES-GU X24ES-GU	, R-6G	D7EV D8EV					
10mm reach ½"	HOT	U20FS-GU U22FS-GU	Z-10G, Z-7G	C7HV					



Nippondenso

Nippondenso of Los Angeles, Inc. 857 East 230th Street Carson, California 90745



The "GU" plug. Get out of the way.





... THE STRONG, SILENTTY PE

DB meets the Canadian connection By the Staff of Dirt Bike

Think of the most important features necessary on a good enduro bike. First off, it must be reliable. A bike that throws chains, eats rings, burns bearings or leaks oil, is definitely out. You can't finish a run on a bike that breaks down constantly, no matter how good a rider you are. Second, it has to be comfortable. The pegs-seat-bars relationship has to be spot-on, or a long run is an agonizing experience. The suspension should be cushy, but not too long, or you'll never be able to turn the bike, and the handling should be as nuts-on as possible. The front end should never hunt around or crab under, unless you do something outrageously wrong.

The power should be smooth and controllable, with a lot of low-end torque, a healthy amount of mid-range, and a dose of top-end to keep you out of trouble. Another comfort item that most people don't think about is noise. A good mud-runner should have an exhaust note that's as subdued as possible, not just for the acceptance of local ordinances. It is very difficult to concentrate on the trail while your ears are ringing. Engine noise, too, should be damped as much as possible — it can become just as annoying as an unmuffled exhaust.

The last category on the list, for anyone who is serious about enduros or qualifiers, is price. Four or five years ago, a competitive rider went out and bought something like a Penton or a Husky, which usually cost \$400-\$500 more than the competition, but had a well-deserved reputation for excellence, which meant a lot more than the savings of a few bucks.

Things have changed a little since then. Penton became KTM; they and Husky are still among the acknowledged best. Can-Am came on the scene, Maico and a few others got into the act, and, most importantly, the Japanese manufacturers started





taking an interest in pure enduro bikes All of a sudden, bikes were available like the PE and IT enduros, costing less than the European mounts and rivaling them for effectiveness. Never before had enduro riding been as popular as it now became.

But lately, things have begun to change. The price of the Japanese machines, creeping up slowly over the years, has suddenly, in 1979, come almost on a par with the more exotic mounts. The narrowing of price margins has produced a renewed interest in the (previously) high-priced spread, and the non-Japanese manufacturers are enjoying a welldeserved revival in sales. The market is actually starting to look good again. Enter the Can-Am 250 Qualifier.

Can-Am has been working on improvements to their line ever since the first bike rolled out of the factory, and they have come a long way from the evil handling and ferocious motors we came to know in the past. Their motocrossers are at least equal competitors to anything else on the track, and the Qualifier line is rapidly nearing state-of-the-art status. Oh.

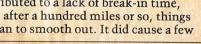
they still have a few flaws and we'll get into them later, but any motorcycle is judged by its good points, and the final verdict is only determined after weighing them against the bad.

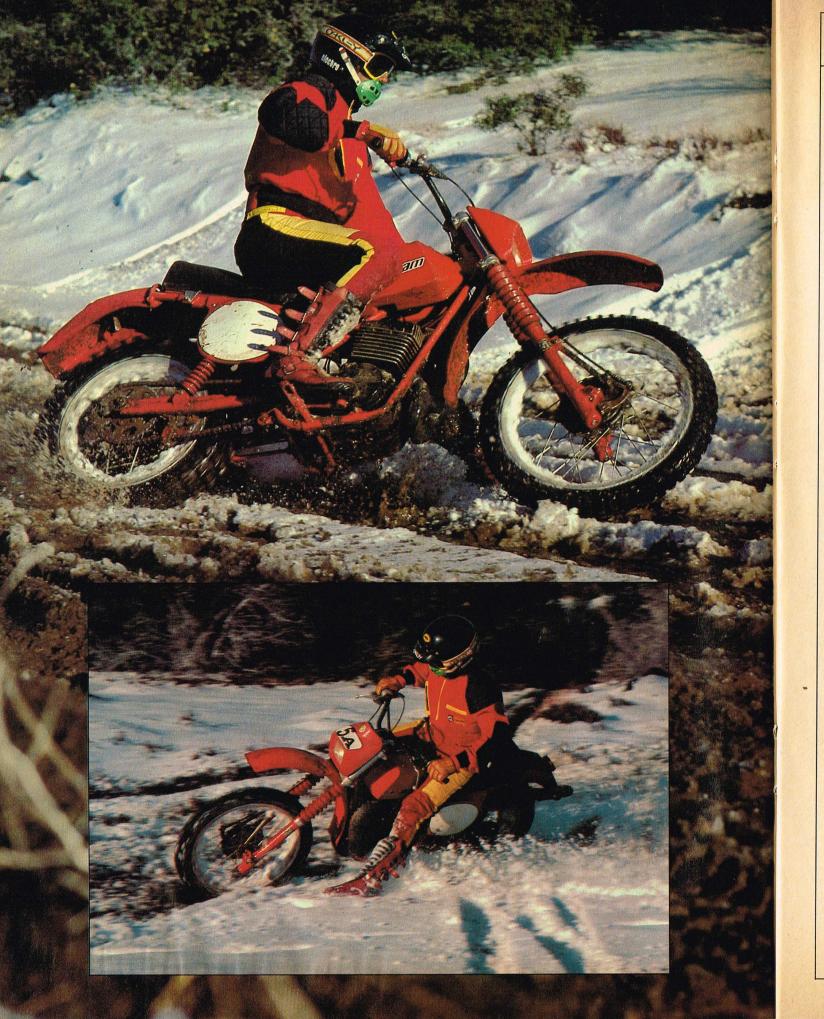
Powerful medicine

Now that we've subjected you to a lengthy discourse on the DIRT BIKE testing procedure, let's get right down to the meat of this thing. We really liked the Can-Am, in no uncertain terms. Everybody liked to ride the bike. As a matter of fact, it was quite difficult to pry some of our testers loose. If you had ever witnessed the cold, cruel, objective testing of our staff of certified crazies and wrench molesters, you would know what high praise that last statement is.

The Qualifier motor is a two-stroke, rotary-valved, oil-injected six-speed, not at all unlike the same engine we had last year. Can-Am prefers to improve the breed, rather than change it every year. The only changes would be the porting, and the fact that they all come with six-speed transmissions this year. The power is there — throughout the range, with a good low-end and mid-range spread that's smoothed out with the help of their medium-weight flywheel. The bike will grunt down low going up a killer hill, but we would have preferred one tooth less on the countershaft sprocket. The dropping of a tooth would result in a little more low-speed pulling power, without losing much usefulness of the top end. As geared, we had the Qualifier winding out to a little over 80 mph on a flat dirt road, which is normally a little more than adequate. After all, we don't want to break the national speed limit. do we?

We had a little difficulty shifting the bike at first, but this was later attributed to a lack of break-in time, and after a hundred miles or so, things began to smooth out. It did cause a few





tense moments, though, when we'd hit a neutral on a full-power downshift, going uphill. The usual result was a rapid end of forward motion, followed by a backwards trip down. Very sobering, but also our fault.

Bouncing back

This year's Qualifier is built around the MX-4 chassis, a good-handling frame that's also quite rigid. We experienced no flex at all, and the bike was stable all the way up to the top-end limit. A little vibration was noticed after the first 50 miles, which disappeared after we snugged up the motor mounts and swingarm pivot. These should be checked on all new bikes, of any brand. The steering head is no longer adjustable on the Can-Ams — it is set at 30 degrees, which seems to be a good compromise. The bike responded well at low-speed trailing, and remained quite stable on fast fireroads. Truly a good chassis.

We had no complaints from our testers on the suspension, the travel being just cushy enough at low speeds to be comfortable, but stiffening up on the square-edged holes, so that only the worst bumps bottomed the front or rear. The forks are the 9.4-inch travel, 35mm Marzocchi units. There is no provision for air adjustment, although the owner could install air caps, if he so desired. We liked the forks just fine, thank you, and see no need to modify them.

Girling gas shocks hold up the rear, and if you expect us to roast them, don't hold your breath — they are decent units. The rear end seemed a little stiff at first, but as we put the miles on, everything softened up nicely. The only valid complaint against Girling shocks has always been that they don't last very long, or at least this has been the case in the past. We have had no trouble with them in our test so far, but we intend to keep riding and see if any problems come up. We also expect to use them on a project bike or two — keep an eye out in future issues. If nothing else, at \$59.95 a pair, you just can't beat the price.

Whattle she do?

The first ride on the Can-Am was all uphills, followed closely by downhills, half of them approaching near-vertical status. On said uphills is where we noticed the downshifting problem, which ironed itself out later on. It's a good idea to use the clutch under such situations — a little slower, but quite a bit more positive. All of the hills in this area are studded with runoff ditches cut from the uphill side to prevent erosion, and they turn a trip in either direction into a wild ride, with the bike spending more time up in the air than



Our test Qualifier waits patiently as Australian editor-type plows a fresh trail.

not. This is where the suspension shone, with the rear end never pitching the rider off the seat, unless he was in the process of doing something really stupid. It was possible to take some long, gnarly hills in third gear. We were limited only by the famous Cajones Factor — the law equating bravery with relative size of various anatomical parts.

We ran into a little problem with jetting, specifically richness just off idle, and helped the matter somewhat by removing the foam sock that lives over the K&N air filter. We needed to drop one size on the pilot jet, and vowed to do it the next time we went out. Oil richness was also suspected, as the machine was smoking considerably (remember, the rings weren't even seated yet), so the oil injector was

readjusted according to the manual.

One of the annoying things about this year's bike is a change in the mounting of the centerstand. It doesn't have the lock that last year's model had (you had to kick the locking tab to drop the centerstand down), and instead is held up by a spring. It also cuts down on ground clearance, so every bump sent the stand down to bump off the dirt, and then bounce back up to the frame with a resounding clank. For a while there, it was the noisiest bike we had with us. Then it quieted down. The stand fell off. Two suggestions: Loctite the stand on while the bike is brand-new, and use a rubber band to hold it up. Otherwise it'll drive you crazy.

Next time out, we took it up to the mountains. We popped in a #35 pilot

(Continued on page 67)



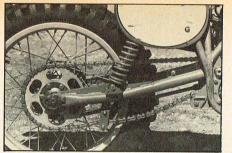
Forks are 35mm Marzocchi, orange flavor. They gave us a little over nine inches of travel, and performed flawlessly.



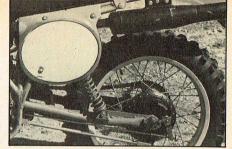
The Rotax engine is one of the best in the class. Yes, that is a Bing carb you see, and yes, we did change the jetting.



Case saver in front of the chain is to protect the ignition cover — some folks remove it to save the cases. Pegs gave a lot of support, brake pedal is super-strong.



Chain is an excellent Regina number, and held up well for us. Don't run it this loose.



Brake is a full-floating unit that works well until you get it really hot, then it simply fades. Exhaust note must be the quietest in the business.



Can-Am Qualifier 250

ENGINE TYPE Rotary-valve two-stroke
BORE AND STROKE
DISPLACEMENT247cc
HORSEPOWER (CLAIMED BY FACTORY)
29.5
CARBURETION
Main jet
Needle iet
Pilot jet
Slide number
RECOMMENDED GASOLINE Premium
RECOMMENDED OIL (MFR.) Can-Am
FUEL TANK CAPACITY
(2 62 gallons)
FUEL TANK MATERIAL Plastic
LUBRICATION Injection
OIL CAPACITY2.16 liters (2.3 quarts)
AIR FILTRATIONK&N CLUTCH TYPE Multi-plate, wet
TRANSMISSION Constant mesh, six-speed
GEARBOX RATIOS
13.40
22.31
31.68
4
6
GEARING, FRONT/REAR
IGNITION Bosch CDI
PRIMARY KICK SYSTEM? Yes
RECOMMENDED SPARK PLUG Bosch
SILENCER/SPARK ARRESTOR/QUALITY:
Yes, very quiet
FRAME, TYPE Tubular space frame
WHEELBASE 145.1 cm (57.125 inches) GROUND CLEARANCE 25.4cm
GROUND CLEARANCE

Product Evaluation

SCOTT PLASTIC BOOTS

Sole food, at \$180 a serving

By the Editors of Dirt Bike



We leaned on the Scott boots to find the limit of movement available, front and rear. It'll go farther than your ankle will.

Shades of Star Wars! The future apparently is here already. Plastic boots, yet. Sure, we've all seen pictures of Hannah and a few other factory riders with the Scott boots on, but their availability to the general public has been non-existent.

The reason is simple: Scott spent these last few years developing, testing, proving and changing the original design. What you see on these pages, is the end result of all that time and money spent.

Two things are different about the Scott boots, other than the obvious fact that they're made of plastic. First, the price. They're meant to retail for \$180. Right. The most expensive boot offered. Secondly, you get an owner's manual with the Scott plastic boots. Not a brochure, but an actual manual.

This detailed and informative manual tells you how to put the boots on (not easy the first time you try it), how to maintain them and how to get them rebuilt, when needed.

You read that right. According to Scott, all components are available from their facility to totally rebuild any part of the boot, from re-soling to putting new buckles on. One of the strongest selling points, says Scott, is



that you should never have to buy another pair of riding boots.

Since the soles always wear out first on any boot, the bottoms of the Scott boots are made of rubber. An eye should be kept on the part of the sole making contact with the peg. The soles should be replaced before the rubber is worn away and the plastic gets chewed up. For this reason, Scott recommends that "overly aggressive" pegs be dulled down a bit with a file or some sandpaper.

When the boots are ready to be re-soled, the rider has to ship them to Scott at the following address:

SCOTT USA
Freeport Center
Building D-11, Section 3
Clearfield, Utah 84016
Attention:
Motorcycle Service Department

Now that all the technical stuff is out of the way, you're probably wondering how they *feel* on the foot. Once you get past the hassle of putting them on and buckling up, they feel great. No actual break-in time is needed, as there is a removable foam liner inside the boot. Your feet never touch the plastic.

To get the boots on, one has to



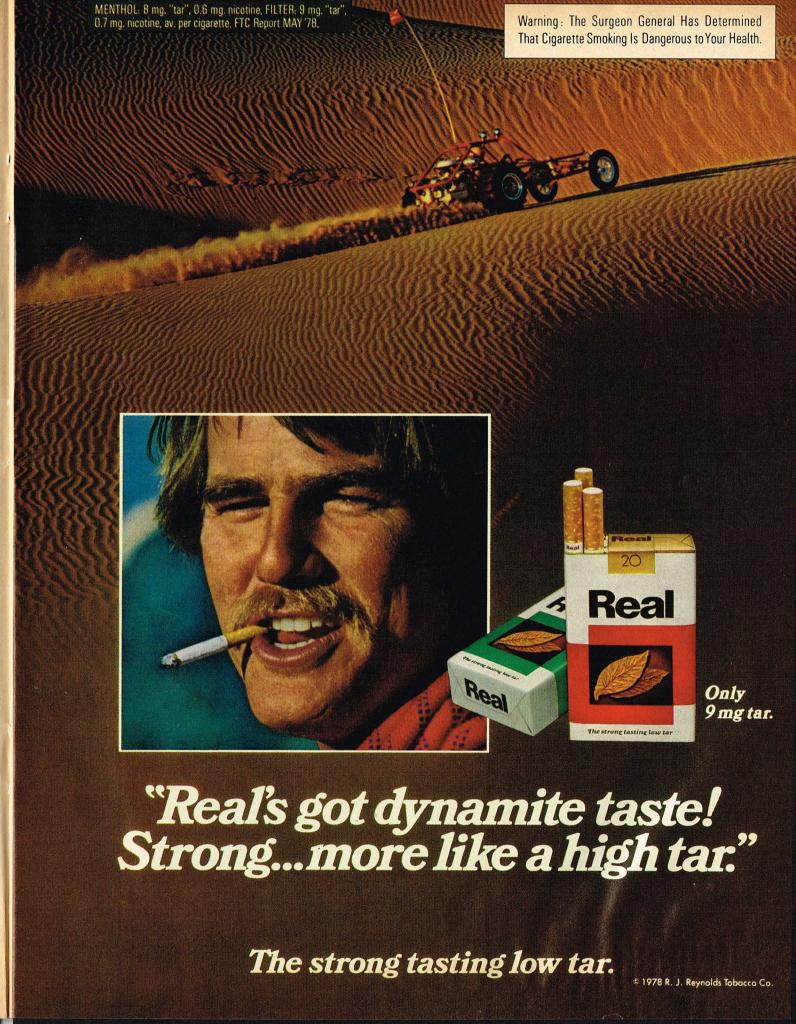
Here's the foam inner liner that goes inside the plastic boots. These are replaceable when they get worn.

spread the boot well open and grasp the liner top with both hands. Then, the foot must be arched with the toe pointed down. While this ballerinatype position is maintained, you must then pull up firmly on the liner top as you insert the foot into the foam inner liner.

Once the foot is inside, you can then start interleaving the two sides together. The first few times you try this, it's frustrating and awkward. After a while, it becomes easier. Then, the boots must be buckled. This is one area that should be re-thought. Even after wearing the boots a half-dozen times, we had problems with the bale-type buckles. Not only is it difficult to lock the buckles firmly into place, it's hard to get the right tension. Too tight, and your calf will go to sleep. Not tight enough and the boot will move around excessively. It takes practice to get the right feel for snugging up the boots.

Now that you have the boots on and buckled, you'll find they are genuinely comfortable. Surprisingly so. And, they are very light. Walking around presents no problem and the ankle flexing hardware functions smoothly. You feel

(Continued on page 58)



DIRTICIFIEAP.

Introducing the newest members of the Yamaha off-road family. The MX100 and MX175.

Two tough, powerful, reliable off-road playbikes that just about anyone can ride.

And afford.

Exclusive Monoshock

rear suspension.

They're priced very low, yet come loaded with all the proven features they need to make them Yamahas.

The MX175, our full-size machine, has Yamaha's exclusive Monoshock rear suspension. The same type used on

our champion YZ motocrossers. Its extremely long travel soaks up the worst bumps and jolts. And the rigid triangulated swing arm keeps

Versatile 6-speed transmission.

your rear wheel right on track.

Leading-axle front forks allow more front wheel travel as well as quick, precise steering.

The MX100 is a unique, intermediate-size bike (right in between mini and full-size) that's not only ideal for youngsters but for anyone just getting started in off-road riding.

Responsive, long-travel,

leading-axle front forks.

rugged, race-proven Yamaha two-stroke singles. Reed Valve

of ground.

The seat height is extra-low

for stable, confident handling.

Full-sized, oil-dampened rear

shocks and long-travel front

around the campground and

responsive control on all kinds

forks assure comfortable cruising

Both bikes are powered by

Torque Induction insures plenty of pulling power at the low end and throughout the broad powerband. The easy-shifting transmissions are geared for efficiency and versatility.

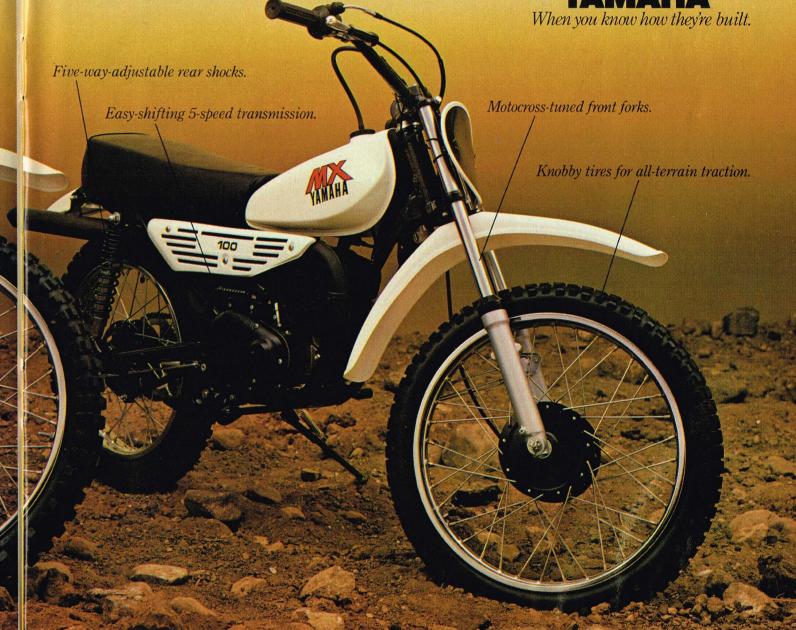
The center mount exhaust pipes are routed up and through cycles that are worth so much the lightweight motocross-type frames for maximum ground clearance.

And our patented Autolube System automatically mixes your gas and oil so you can concentrate on having fun.

The new MX100 and MX175.

It's not often you find motormore.

And cost so much less.



Part Three

Snagged cables, broken levers, and bashed pipes - welcome By Paul Clipper to the parts counter



This is how the story goes: You're out on your PE250, riding the Bone Crusher 100 National Enduro, and everything is going great. All the trees in this run seem to have been planted 26 inches apart, but there isn't a mark on them that came from your bars. Polite smile, and a nod to the Sierra Club. Also, you've gone the whole distance, and if it weren't for the few people whose roost you caught, you'd be just as clean as you started. Yep, a pretty fine day.

Coasting up to the finish line, you're bone weary, but you don't let any of the checkers guess as you joke and

you trip over a gas can, fall into the bike, and the pair of you go head first into the door, and then neatly drop to the ground. Much swearing ensues. A few stray oil cans get kicked into oblivion.

After you calm down, you kick away the empties and assess the situation. Broken front brake lever, snapped cable, and a bent shifter. If you've got a copy of this magazine with you, in one short glance you'll be able to see that this little fall is going to cost you, uhh. .. lessee, carry the four, umm. \$26.61. Wouldn't that make you happy?

This is the third and final

This is the third and final installment for the 250 machines, and is pretty much self-explanatory. In some cases it may even explain to you how accessory manufacturers stay in business, especially if you own one of the scoots that call for a \$15.95 clutch cable.

	Shock (1)	36.26	N/A	39.50	69.82	79.30	88.70	78.81	58.16	55.23	125.00 CR & WR 67.05 OR	29.67	42.00	42.00	75.46	N/A	50.70	53.18	73.92	49.40	50.62	147.75	145.96	128.73
	- Tank L																							
1	Axle Bearings Rear	7.60	7.60	4.95	4.02	N/A	8.32	4.66	3.29	3.29	5.80	4.18	4.18	4.18	5.57	22.57	6.83	6.83	5.14	5.14	4.11	3.88	4.00	3.88
	Axle Bearings Front	3.94	3.94	4.95	3.25	N/A	5.63	3.29	3.92	3.92	2.80	3.50	3.50	3.50	4.46	11.74	6.83	6.83	3.60	3.60	3.60	3.38	3.38	3.38
	Steering Head Bearings	7.50	11.25	00.9	3.25	11.85	13.26	6.57	3.96	3.96	7.82	11.30	11.30	11.30	.12 ea	18.41	16.07	16.07	.15 ea	.15 ea	.15 ea	12.52 U 10.08 L	12.52 U 10.08 L	.66
	Fork	98:9	12.08	7.00	3.28	1.60	4.62	3.50	2.61	2.59	2.80	2.26	2.92	2.92	4.60	14.20	3.97	3.97	3.08	3.08	3.80	1.82	2.90	2.90
	Spoke	99.	1.10	.59	.27	.50	.52	44.	29.	29.	8 8.	99.	25	99.	.39	06:	.40	1.10	12.08	12.88	12.43	12.90 set 13.20	12.90 set 13.20	11.24 R 12.14 F
7	Brake Shoes Rear	17.50	17.15	8.00 pr.	12.53	11.85	13.54	4.70	4.13	4.13	18.03	5.85	5.85	5.85	9.20	19.80	9.27	9.27	4.11	5.14	5.14	09.9	7.90	4.26
	Brake Shoes Front	17.50	17.50	6.00 pr.	12.53	11.85	13.54	4.80	3.40	3.40	18.03	5.80	5.80	5.80	5.18	15.44	8.82	8.82	4.11	5.14	5.14	4.30	4.30	5.02
	Expansion Chamber	63.88	113.88	49.50	105.07	55.80	147.23	81.83	N/A	N/A	97.16 CR 169.71 OR N/A WR	50.85	71.50	58.66	105.62	179.09	121.88	121.88	72.20	76.00	09.99	68.48	65.00	N/A
	Shift Lever	18.50	18.50	12.50	14.10	10.65	15.69	20.56	14.31	7.84	12.10	12.42	7.90	7.90	12.46	16.87	20.68	21.97	8.88	88.88	9.25	2.90	9.04	4.68
	Rear Brake Pedal	14.33	18.02	6.95	17.71	4.75	11.24	22.26	17.91	12.30	8.52	16.94	10.16	10.16	14.03	19.60	25.48	18.74	14.39	13.36	13.32	7.72	N/A	7.62
	Clutch	9.00	9.00	5.95	9.17	6.15	8.64	3.40	3.40	3.40	7.11	4.74	4.15	4.15	16.75	9.50	16.40	16.40	11.82	4.4	11.31	6.16	6.16	4.98
	Front Brake, Lever	8.38	8.38	5.95	8.72	6.15	8.64	3.40	3.40	3.40	7.11	4.74	4.15	4.15	16.75	9.50	16.62	16.62	10.79	12.85	4.44	6.16	6.16	4.98
	Clutch	8.28	8.28	3.95	5.17	4.00	15.94	00.9	00.9	9.00	7.27	4.80	2.00	2.00	4.12	6.53	9:36	6.19	6.22	99.9	5.33	5.74	5.74	90.9
þ	Brake Cable	96.9	7.48	8.00	8.48	4.00	6.30	5.60	7.10	7.10	7.27	5.40	2.08	2.08	3.66	6.33	9.59	6.19	4.44	4.88	4.44	3.66	3.66	6.16
		Bultaco Alpina	(*1) Bultaco Frontera	Carabela 250 MX	Can-Am 250	Harley MX250	Hercules 250 GS	Honda CR250	Honda XR250	Honda XL250	Husqvarna 250 (*2)	Kawasaki KX250 A-5	Kawasaki KL250 A-2	Kawasaki KE250 B-3	KTM 250 (pre-79)	Magnum enduro & MX	Montesa Cappra 250 VB	Montesa Enduro 250 H6	Suzuki RM250C2	Suzuki PE250C	Suzuki TS250N	Yamaha YZ250F	Yamaha IT250F	Yamaha DT250F

What made Tom Keeton feed his friends a steady diet of dirt, rocks and second place? The Kawasaki KDX400.



Tom "Malcolm" Keeton likes to win. That means two things. One, anything goes. And two, he goes with the best bike.

So when Tom saw the new KDX400, he said,

"That's one for my friends."

The KDX400 is a winner. For a start, look at the chassis. An I-section aluminum swing arm, chrome-moly steel frame, cast magnesium components. It all adds up to light. Real light. Lighter than the closest competitor. Then there's the special 2-stroke reed-valve engine that gives you useable horsepower. The KDX400 is a torquey mother. It'll suck your eyeballs down your throat. And it comes with a wide ratio 5speed transmission and CDI ignition.

Even the suspension has more travel than

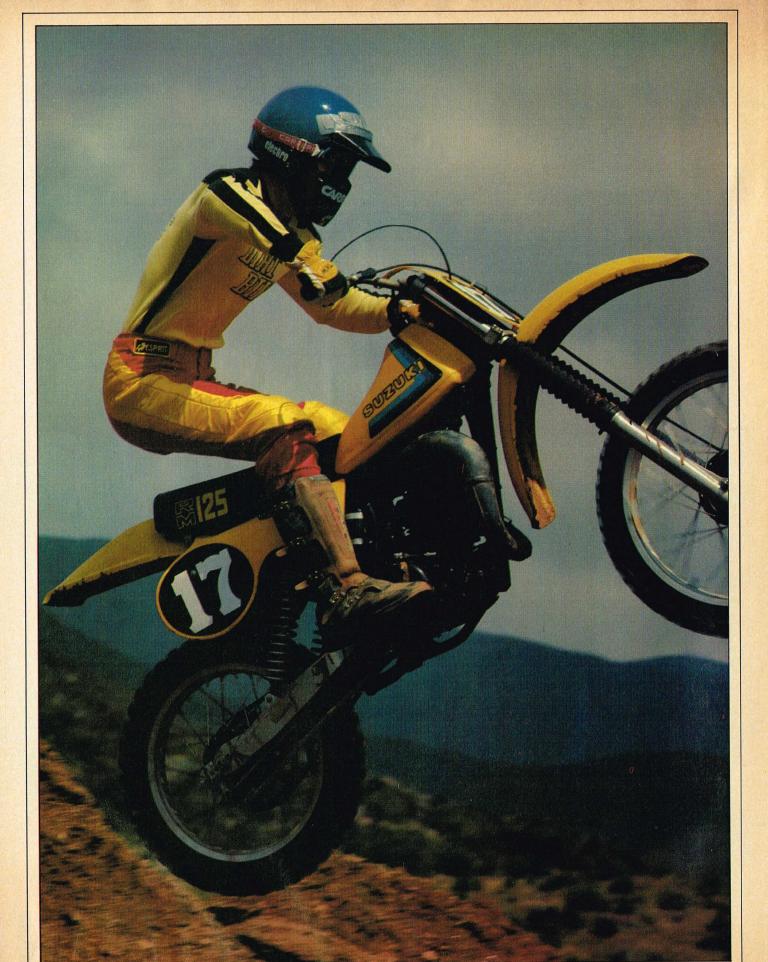
the closest competitor. 10.2" in the front air-oil forks with large diameter tubes (38mm) for minimum flex and maximum strength. In the rear, 9.1" with Kayaba gas-oil lay-down shocks with remote reservoirs.

There's a 21" front wheel and 11.7" of ground clearance. What else do you need to win enduros? Off-road lighting? Narrow, but big fuel tank? Wide plastic fenders? Quick detach wheels? Engine and chain protection? A high level air intake for the water? It's all there in the KDX400.

This bike is designed for big bore endurance riders who want to win and not be beaten to death in the process. The KDX400 may not win you friends, but it can win races.

Kawasaki Don't let the good times pass you by.





Suzuki RM125N

EVOLUTION OF THE SCREAMING YELLOW ZONKER

Some things always change By the Staff of Dirt Bike

This is the third in our series of 125 motocrosser tests: the RM125N Suzuki. The first was the Elsinore, the second, a KX125. Finishing out the Big Four, will be the YZ next month. Then, as previously stated, we'll stand back and take a hard look at how they stack up to each other.

Our RM is emerging as the missile of the group, and a sophisticated one, at that. It's no surprise that the "N" version of Suzuki's 125 bristles with every goodie to be found. Other than a few odds and ends, this latest version is as up to date as anything, in any class.

If you'll think back and count on your fingers for a while, you'll find that Suzuki has come out with five different versions of the 125 MXer in the last three years. They haven't bothered to wait for the traditional end of the year new models like the other Big Four manufacturers.

This has both delighted and teed-off the 125 class buyer. On the one hand, the bikes have been excellent state-ofthe-art efforts for a fair price. On the other hand, it's frustrating to go out and buy a brand-new racer, only to have a totally new and updated model appear a few months later.

Still, this paid off for Suzuki in a big way. They absolutely dominate racing in the 125 class. While this may not be true at the National level, it's most assuredly a fact of life at your average track on any Sunday. The reason is simple. The RMs are the rocketships of the class. When you can get to the first turn ahead of the other bikes, your job is a lot simpler.

The first RM125s weighed in at right around 190 pounds, very light for the time. As the models gained travel and speed, they increased in weight with each and every model change. It's hard to go from 35mm fork tubes to 36mm tubes and not pick up poundage.

However, with the new "N" model, they've somehow managed to make a



maximum-travel 125 and shed kilos of lard in the process. Our test 125 weighs 187 pounds dry. Take off the removable kickstand assembly, and you save almost two more pounds. Pour some mix in the tank, add oil to the gearbox and forks, and you can straddle the RM125N at the starting gate at right around the 195-pound mark.

How'd they get it so light?

By careful thought and trimming, mostly. No radical weight-saving steps were taken. For being a class leader. Suzuki is a conservative company that does not like to take chances with unproven techniques.

Most of the fat was trimmed by rethinking the sizes of fasteners, tabs, brackets, mounts and supplementary hardware. More weight was lost with relocation of components and trimming cases and covers. Mostly, the total weight savings was the result of paring a fraction here and a tad there, rather than going for any major surgery in any one area. This is actually the safest way to go about a weight loss, but, no doubt, hundreds of man-hours were spent by the engineers in the process.

A quick glance shows a smaller, lighter tank. The aluminum arm is trimmer. The clutch has been relocated. Even the actual frame is lighter. Less tubing is used and economical thought shows in gusseting and tubing junctures.

Getting familiar

When slinging a leg over the "N" model, it's apparent that you're on a new generation bike. At well over 36 inches, the Suzuki is a tall bike, requiring that riders under 5'10" wear a non-binding set of leathers. We've watched more than one short rider catch a toe on the back edge of the saddle and topple over like a stunned cow in a meat factory.

Still, once astride the machine, the area where the saddle meets the tank is very narrow and dips a bit when seated, allowing the rider a chance of at least touching the ground with the tips of his toes.

If you're under 5'9", it's best to rest your left foot on something when kickstarting the bike. A toolbox or a milk crate usually serves nicely. The reason for this is obvious. Not only is the bike tall, but for some odd reason, every once in a while, the Suzuki takes a large number of kicks to get lit off.

There was no pattern to this. Hot, cold or medium temperatures would produce a three-kick start one time, then demand a 12-kick start the next time. We tried throttle settings, a string of curses and several prayers, but it didn't seem to make any difference. The bike would start easily when it wanted to and get grumpy when it didn't feel like it.

Compounding this, was the close placement of the footpeg to the kickstarter at the bottom of the stroke. More than once, we saw tears come to the eyes of a fully grown man, as he nailed his instep on the back of the peg.

But, once the bike was running, all of this was forgotten. Even when sitting on the bike, warming the engine up, you can tell there's a good, strong motor underneath you, just waiting to rev its brains out.

Easing the RM into gear, the rider will feel no lurch or clunk. You can't really tell you're in gear until the

clutch is eased out. Engagement proved smooth and over a fairly wide area. It didn't take the hands of a magician to get the right combination of clutch and throttle to initiate forward motion. This could prove a very valuable feature for a rider on a slippery, freshly watered track that calls for easing out of a snotty corner.

The first time you run through the gears good and hard, the solid rush of power almost fools the rider into thinking the bike pulls like a 250. While the surge is nearly as strong as a crisp 250, it doesn't last as long. There's a quick spurt of power to the rear wheel, then the rider had better shift right away.

Over-revving the 125, unlike the RMs of the past, will actually slaughter the delivery of the power. While the "N" model puts out a wild 26-plus horsepower at slightly over 10,000 rpm, it also drops off like a falling brick past that figure. Test riders who tried to ride the new bike like last year's machine were disappointed. When they were asked to short-shift the bike, they found out it worked a lot better.

Now, the RM could not be shortshifted like a 250, but you had to get into the next higher gear much earlier than you thought would work. The RM seemed to pull well from about 6500 to 10,000 rpm. This means that the left foot of the rider will be doing a steady tap dance on the shift lever.

Luckily, this is the best-shifting Suzuki 125 we've ever ridden. The only shift that demanded attention was from first to second. Here, unless the rider made a fairly deliberate stab, a random neutral would surface. Once in second, the RM could be upshifted under power, without backing off the throttle. We raced the Suzuki a number of times, and more often than not, it was Holeshot City.

We wished the RM would have had a bit more grunt down low, but then, some of the top end would have no doubt gone far, far south.

Suspension, front and rear

Naturally, the RM is running long legs. Right around 11 inches at both ends. And, the quality of the travel has improved dramatically over previous efforts. Older RMs (all sizes) had an excess of compression damping, that would cause the forks to react harshly to sharp-edged bumps or square holes. The oil simply couldn't get through the holes in the damping assembly quickly enough. This meant that any sudden, violent impact would make the forks momentarily rigid. On rolling bumps, even deep ones, this was no problem. We're pleased to report that the new forks are genuinely improved. They



Our test RM125 won twice at Saddleback, once at Indian Dunes and picked up a second at Racing World.

followed the ground well and were supple enough to yield reasonably well over those square-edged bumps. On a scale of 1 to 10, we'd give them about an 8.7. Not perfect, but very good.

At the rear you'll find what looks like the same old shock Suzuki has been giving you for a few years. But, it appears that more has been changed than the springs. We found the action decent and fade-free. The average RM125 Suzuki owner will not have to run out and pop for a pair of accessory shocks. At least, that is, until these give up the ghost. They are not rebuildable, which is a shame, because these KYBs are not bad at all.

A rubber bumper rides on the shock shaft, and even though this bumper is only an inch and a half or so in length, it appears to have magical properties that keep the rear end of the bike from bottoming out severely, no matter how much impact is dialed in. You can expect to see these bumpers being used more and more as their worth gets proven. The race car people have used this concept for years.

Following the bouncing berm

As delivered, most riders will find that the Suzuki is not too happy when stuffed into a corner. While the front end doesn't push or drift out when the bike is leaned over, it still does not snap sharply through a directional change.

The answer, of course, is to raise the forks up in the triple clamps about a half-inch. In addition to this, the pressure in the air forks should be run at about 11 or 12 pounds for the average rider. Once this is done, the RM will then turn quite happily. You'll find a very slight trade-off when the forks are raised, and that is a minor tendency for the rear end to swing out under acceleration when heeled over. However, that tendency is so slight, that simply slipping a Metzeler on the rear would bring that condition back

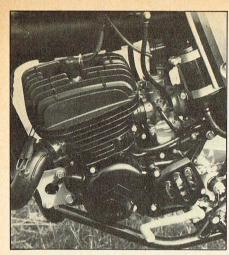
While mentioning Metzelers, serious riders should consider wrapping one around the front rim. While the stock rubber works OK under most conditions, when the course dries out, the stock rubber begins to slip.

One interesting side note of sorts: We've seen tests in other rags mentioning that the RMs don't turn sharply enough. Don't be taken in by their lack of smarts. Experiment with the positioning of the forks, try different oil levels in the forks and find an air pressure that fits your riding style. All of these factors determine how a bike will turn. Even something as simple as bumping up the preload on the shocks will make a bike turn a bit sharper. So, don't take anything for granted until you have explored the tuning capabilities of this or any other machine.

However, there's more to an MX track than just corners. On long, bumpy straights, the RM shines. It's really possible to get tapped out on deep whoopers. You've just got to trust the rear end to take all the punishment in stride. For a long-travel bike, there is very little wallowing through truly deep whoops. Some of the long-travel machines tend to pitch and bury the front under deceleration. This can literally pitch a rider right over the bars. You'll find that the first part of the travel on the Suzuki is on the firm side, which is as it should be. Riders should resist the temptation to soften up the suspension action to "mushy" specs.

Bits and pieces

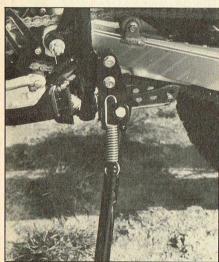
Overall feel and layout of the newest RM is a bit different than past efforts. The bars are much flatter than last year's model and the pegs are fairly far back on the bike in relationship to those bars. This makes the RM125 very easy to ride in a standing position. An average-sized rider will find that — in



The RM125 has the look and feel of a much larger bike. Even the engine appears large for a 125.

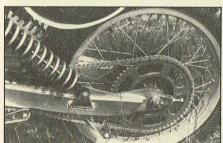


Layout in the engine compartment was well thought out. Not much space was left over, but everything could be reached for normal maintenance.



Removable sidestand will save the rider about two pounds when left off. Neat roller on top of swingarm keeps aluminum from getting chewed up by the chain.





(ABOVE) Everywhere you look, thoughtful weight-saving techniques are apparent.



(RIGHT) The forks on our '79 RM were the best Suzuki effort to date.

1979 Suzuki RM125N

19/9 Juz
ENGINE TYPE Two-stroke, single-cylinder,
BORE AND STROKE 54.0mm x 54.0mm
BORE AND STROKE 54.0mm x 54.0mm
DISPLACEMENT
CARBURETION Mikuni, VM32SS, 32mm
FACTORY RECOMMENDED JETTING:
Main jet
Jet needle
Pilot jet
Slide number
RECOMMENDED GASOLINE Premium RECOMMENDED OIL (MFR.): Suzuki C.C.I.
FUEL TANK CAPACITY
(1.7 gallons)
FUEL TANK MATERIAL Plastic
GAS/OIL RATIO
OIL CAPACITY N/A
OIL CAPACITY
CLUTCH TYPE Wet, multi-plate
TRANSMISSION: Six-speed, constant mesh GEARBOX RATIOS
12.333 (28/12)
21.750 (24/17)
31.411 (25/21)
4
6
IGNITION Suzuki P.E.I. (Pointless
PRIMARY KICK SYSTEM?Yes
RECOMMENDED SPARK PLUGNGK
B9EV or Nippondenso W27ES-G
SILENCER/SPARK ARRESTOR/QUALITY:
Silencer only, average for racer
EXHAUST SYSTEM High-pipe, right side FRAME , TYPE Single downtube,
The state of the s

WHEELBASE 1440mm (56.7 inches) GROUND CLEARANCE: 320mm (12.6 inches)
SEAT HEIGHT AT TANK 920mm
TRAIL
RIM MATERIAL
Front 3.00 x 21 Bridgestone knobby Rear 4.10 x 18 Bridgestone knobby
SUSPENSION
Rear, type and travel Aluminum swingarm,
INTENDED USE, MFR Motocross, off-road racing COUNTRY OF ORIGIN Japan
PRICE, APPROX
Rings only
Shift lever \$7.86 Brake pedal \$9.27 DISTRIBUTOR ***
U.S. Suzuki Motor Corp. 13767 Freeway Dr. Santa Fe Springs, California 90670
OVERALL RATING, FROM 0 TO 100, VARIOUS CATEGORIES, KEEPING
INTENDED USE OF MACHINE IN MIND: Handling .93 Suspension .96
Power .95 Cost .85 Attention to detail .98
Effectiveness, stone stock



his normal stance — a slight amount of his weight will be automatically placed on the bars.

With this stance, the rider will find that when he drops to the saddle for a corner, he's already positioned right over the forward area of the saddle near the tank, which is the right place to have the weight when loading the front end for a corner. Going from a seated to a standing position on the RM is a very natural movement, except for tall riders. For some reason, a few of our taller riders have reported that they've felt "hunched over the bars" when standing and that they hit their knees too easily on the bars when turning.

As with all Suzuki dirt bikes, this one comes with a too-short throttle assembly. Even for average-sized hands, the length is wrong. Riders with big hands actually have their hands

hang over the edge of the grip on the throttle side. One of the very first investments most riders will make, is a straight-pull something-or-other.

While sniveling about the throttle, we might just as well moan about the throttle cable. It's decidedly sub-average, with a lot of housing flex apparent when the throttle is cranked

We liked the shape of the bars, but bent them easily. They appear to be shaped like the very early Husky bars and are flat and straight.

New plastic abounds this year. The tank is a welcome change, but emotions were mixed about the new space-age shape of the rear fender. In fact, the front fender was also slated to have that shape, but this design was dropped after the first shipment of RMs hit the shores. Suzuki has also

managed to retain a pleasing shape to the rear section of the RM, even though they have the FIM-required rearmounted number plates to contend with.

One odd thing: We just couldn't find any reasonable way to keep those side plate mounting bolts in. They constantly fell out. We didn't want to safety-wire the things and somebody stepped on our tube of Loctite. No matter how much you tighten those wimpy little bolts, they somehow disappear by the end of the day of riding. Suzukis all over the world are being ridden around at this very minute, with little nylon ties holding the side panels on. 'Tis a shame.

Brakes were decent, with a new hub riding up front. The rear brake is a floating setup, which some people think is the greatest thing since jockey shorts. We've never been able to see the advantage explained to us in a rational manner. However, the rear brake isn't bad at all.

Air filter servicing seems to improve each year on the RMs, and this "N" version of the 125 is no exception.

As with most new bikes, our spokes loosened quickly and often during the first few riding sessions, then bedded down for a nap.

One funny thing: We kept having our master link clip fall off. MXA had a similar problem with one of their Suzooks and they found out that it was caused by rolling the bike backwards and catching the clip on a sharp edge on the chain tensioner. By bending the offending edge slightly out with a pair of pliers, this trouble spot can be cured easily.

Also, keep an eye on the frame end of the brake stay arm. There's a cotter pin that can be pushed out when the bike is put up on a stand.

Oh ves. There are also zillions of neat little rollers and brackets and doodads all over the bike. You just sort of have to squat down there and look around to appreciate the details in that department.

In a nutshell

When you consider all of the facts and figures we've presented to you, the Suzuki is undeniably a brilliant package. It's probably the most technically advanced dirt bike on the market today. Each year, Suzuki keeps whittling away at the RM125, and with each effort, they get better and better.

If this trend keeps up, we just might be forced to write a test someday in the very near future wherein we can't complain about anything! Gad. That would be awful. Maybe that's why they don't change that wimpy little throttle.





John Savitski



What is the most vulnerable DG's exclusive Turtle Nek-Saver is constructed of 100% with your choice



The DG Nek-Saver is available at finer dealers and accessories stores, or use the handy order form below.

DG Sports Vest 39.50

Machine wash/100% poly

blue/yellow top

DG Turtle Nek Saver 22.50

☐ Yamaha (yellow) ☐ Kawasaki (white) ☐ DG (yellow) ☐ Suzuki (yellow) ☐ Honda (red)

□ XS □ S □ M □ L □ XL OS OM OL OXL

DG Long Sleeve T-shirt 11.50

California resident	s add 6% sales tax	master charge	BANKAMERICARD	F
Charge my D	faster Charge 🗌 Visc	a	9500 E23 906, 109	a
Card #		exp. do	ate	e C
Name				0
Address				
City	State	Zip		
Phone #	Signature			1

ormation

out DG accessories, uipment and apparel, send \$3.00 for the 1979 DG stalog (Book of Tricks).

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WITH EVERY DT YOU GETA FREE STREET BIKE.

There are few things in life better than getting your money's worth.

And few ways to do it that are as much fun as this—a '79 Yamaha DT.

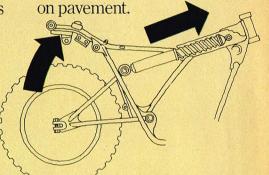
Because it's not just two bikes for the price of one. It's two good bikes for the price of one.

All our DT's were designed from scratch for someone who not only wants to ride on both sides of the city limits, but who also wants to do it on something that's more than an overweight street bike with knobby tires. Or a tempermental dirt racer with lights.

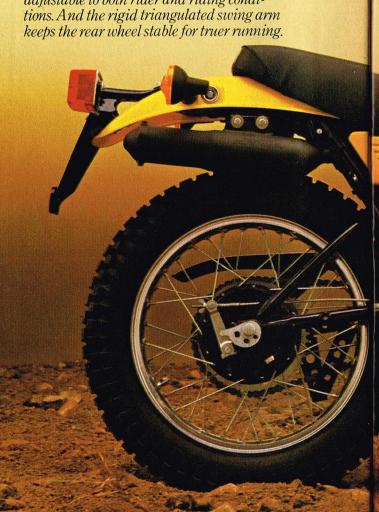
It's a pure-bred motorcycle, as easy to pick through a stream bed as through a traffic jam.

To illustrate our point, let's take a look at how the DT is made. We start with a rugged motocross-type frame, and motocross-type suspension. On our bigger models (all but the DT100), that means Monoshock.

The Monoshock rear suspension we use is the same system you'll find on our World Champion YZ motocrossers, and TZ road racers. It gives you the flexibility you need in the rough, and the control you need



Our exclusive Monoshock rear suspension keeps the rear wheel on the ground for outstanding traction. Spring preload is adjustable to both rider and riding conditions. And the rigid triangulated swing are beeps the year wheel stable for truer rowin



In fact, it's so good it's patented. That's why you won't find it on anything but a Yamaha.

Our bigger models also have new leading-axle front forks, so there's plenty of travel (up to 7.6" to be exact) and steering that's fast without being heavy.

Power (and we do mean power) comes from a quick, reliable two-stroke single. Quick, because it has Yamaha's exclusive Reed Valve Torque Induction for plenty of low end punch. Reliable, because it's the sim-

plest type of powerplant in the world. (With only seven moving parts, there just isn't a whole lot that can go wrong.)

And to top it off, our twostroke engines weigh less than a four-stroke, with a much lower center of gravity, for that light, crisp feel.

Add little niceties like flexible turn signals, an exhaust system mounted where it won't scrape, automatic chain tensioner, and of course Autolube —which automatically precisely and economically mixes your gas and oil—and you have a bike that can take you a long way. Wherever you take it.

So whether you decide to take your bike camping, or fishing, or just touring through the boonies on a Sunday morning, you're going to find that our DT's have everything you need to handle even the worst terrain.

Including a way to get there.

YAMAHA

— which automatically, precisely, When you know how they're built.





geometry, too, but a good deal of it comes from the weight reducing efforts.

Speaking of the geometry change, Yamaha (finally) pulled the steering head back two full degrees from 31.5 to 29.5. And (finally), the IT will turn with success. Compared to the E-model, it's like a trials bike — an exaggeration, of course, but there is a major difference. While we didn't detect any loss of straight-line stability through the whoops, at least the rider this year has enough fork tube length to be able to drop them in the clamps for a flatter rake for whoops.

Maneuverability and tracking are both improved.

This year the forks got the treatment, too. Travel is up 15mm (1.6-inch) over the "E" model to 230mm (9.06 inches). Revised damping rates are enhanced by an increase in

fork oil volume by 46cc (1.55 ounces).
This extra oil helps combat
temperature changes in the forks.

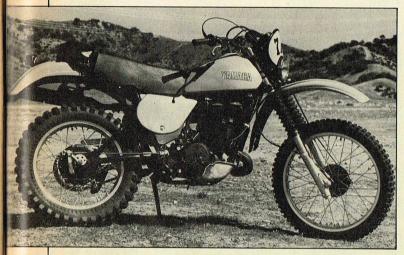
Travel at the rear is increased 20mm (.8-inch) to 205mm (8.07 inches). Both spring rates and damping rates of the monoshock are revised. Actually, the spring rates are softer than last year, which initially gave us some concern, since the E-model was too soft. But, as it turns out, damping changes are combined with higher nitrogen pressure to net a much better feel. Excellent low-speed reaction, without severe bottoming, is the net result. It's a matter of fine tuning.

Not content with just chassis and suspension changes, Yamaha also went about redesigning the 396cc powerplant. A bore and stroke change, new leaner cases and jetting changes in the 38mm carb are the majors here.

This year, the bore is decreased 3mm

to 82 while the stroke is increased from 70 to 75mm. This new longer-stroke motor develops more torque and a little less rpm than the older engine. The IT shares the same configuration with the YZ models. All-new cases this year are the result of a major amount of trimming, cutting and fitting. These new aluminum sculptures don't appear to have an ounce of unnecessary fat anywhere and torsional strength has also been improved. Smaller, narrower and lighter, the cases help position the engine weight lower in the frame. Additionally, the gear ratios are revised, providing closer ratios with overall lower gearing.

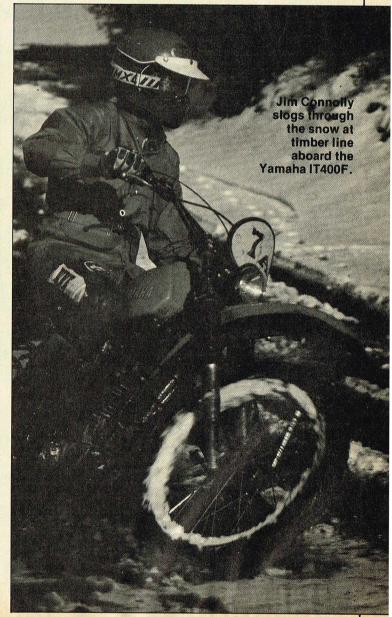
Everything in the carb, with the exception of the slide cutaway (3.0mm), is changed on the "F" model. The main jet has gone up from 350 to 370, the pilot from 50 to 60 and the needle jet has been fattened up. The



Attention to detail is the Yamaha's strong point. It is the best-equipped out-of-the-box enduro available.



Quick-change rear wheel and a 100 mph final drive sprocket ratio are a few of the things that make the IT so versatile.





A QUICK-CHANGE MUST

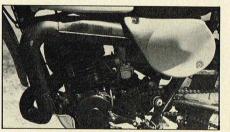
To help get those tire changes down to three minutes as well as just make chain care and maintenance a lot easier, a centerstand kit is available from Yamaha dealers.

This stand bolts up to existing mounts on the underside of the IT250 and 400 F-models, without welding. The stand fits all models with stock-length suspension. Price on the centerstand kit (part # 2X7-27000-00-00) is approximately \$43.50. (It will not fit the D or E-models, but there is one available for those earlier ITs.)

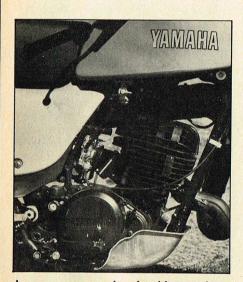
Not only does it make changing tires, pulling wheels for brake maintenance and lubing the chain easier, but it helps steady the machine when working on various other parts while in the workshop. Another advantage is that it means you can pull off the stock sidestand, which sometimes has a tendency to snag your heel while paddling or dabbing through rocks and mud. A worthwhile item, for sure.



Yamaha offers good rear brakes and Barum-type rim-saver IRC Volcanduro tires.



Magneto cover is constructed of composite-materials plastic. Folding shifter and chain tensioner are standard.



Leaner cases and revised internals account for most of the 23-pound weight reduction on the IT400F. Motor is one of the strongest open classers available.

#3 position.



Fork travel is increased moderately to match longer rear end. Damping is good. Plastic-covered headlight, still standard, is quite durable.

alongside one of the very quick Can-Am 370 Qualifiers, and they ran heads-up - run after run. Despite the awesome amounts of torque, the IT doesn't want to loop on the rider that easily. It will, of course, like any open class machine, but the rider really has to dial it on in the wrong circumstances.

Another eye-opening power experience happened on a several-mile paved stretch in one of the off-road riding areas where we test. Shifting from fourth to fifth — at well over 60 mph — one tester crested a shallow rise and the front end lifted gracefully. The

Yamaha IT400F ENGINE TYPE ... Air-cooled, reed valve single BORE AND STROKE ... 82mm x 75mm DISPLACEMENT ... 396cc CARBURETION ... Mikuni VM38SS FACTORY RECOMMENDED JETTING:
 Main jet
 370

 Needle jet
 Q-0

 Jet needle
 6F-16-2

 Pilot jet
 60

 Slide number
 3.0

 RECOMMENDED GASOLINE
 Premium
 RECOMMENDED OIL (MFR.) Yamalube
FUEL TANK CAPACITY: 12 liters (3.2 gallons)
FUEL TANK MATERIAL Plastic
GAS/OIL RATIO 20:1 GEARBOX RATIOS SILENCER/SPARK ARRESTOR/QUALITY: EXHAUST SYSTEM Yes/yes/good High . Double cradle TIRE SIZES Front 3.00 x 21 4PR COUNTRY OF ORIGIN Japan
PRICE APPROX \$1798 Yamaha Motor Corp. USA 6620 Orangethorpe Buena Park, California 90620 OVERALL RATING, FROM 0 TO 100, VARIOUS CATEGORIES, KEEPING INTENDED USE OF MACHINE IN MIND:

needle is dropped one notch from #2 to

The end result of the motor changes is absolutely gratifying. We consider this probably the best open class engine available on enduro/qualifier mounts. It is extremely tractable and can be called on to perform tractor-like functions in any gear. At the same time it will pull easy, full-power wheelies in fourth and fifth gears. It's incredibly strong! There is a definite surge just above mid-range, but for the most part, it just pulls strongly and evenly right from the bottom.

We had a chance to run the IT

lift-off was smooth and controlled and might have been scary on something pipier. We managed to get an actual eye-fluttering 90-plus out of the IT on a fireroad. Whew!

A couple of the testers felt that it would make an excellent motocross motor, since it was so smooth and predictable. The problem with most big-bore MXers is just getting the rear wheel to hook up. The more predictable the power is, the easier it is to maintain forward momentum.

Cost
Attention to detail
Effectiveness, stone stock

If it sounds like we're stoked on the engine, you certainly pegged it. It

(Continued on page 68)

Swingarm Maintenance

IT'S PIVOTAL.

Up and down, not back and forth

Well, Bunky, it just doesn't seem to want to go where you point it anymore, eh? Does it feel like every jump is going to launch you toward Waukegan, when you were headed toward Nashville? Are you tired of going through the whoopde-dos backwards? Does it seem that every time you pick a line, your front end picks a different one?

Is that what's bothering you, Bunky? Then, what you have here is probably dead swingarm bushings.

It's easy enough to find out if these little units have gone south, just by removing the rear wheel and shocks, and checking for side-to-side play. If the swingarm moves more than about one millimeter (.04-inch) at the axle, then it's time to replace these bushings. If they are really bad, then you'll be able to detect movement without removing the wheel or shocks. At that point they are really grim.

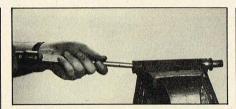
How did they get that way, you may ask? Usually from age, always from lack of lubrication.

Actually, there are three main types of swingarm bushings. The first, one that is fairly common on many older bikes, is the rubber bushing. This looks like a very large shock eye bushing. It is a steel sleeve with a steel insert bonded together with very stiff rubber. There is no real maintenance on these units, they just get old, or the rubber breaks down from use and they get sloppy. Replacement is the only cure.

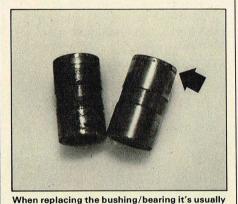
The second type is a bushing (bronze or nylon) that either floats between inner and outer spacers or is pressed into the swingarm and rides on a smooth spacer. These should be occasionally cleaned and lubricated. Once they are worn out, though, it is time for replacement.

A third type, one that is increasingly popular on more and more machines, is the needle bearing. These are usually caged (contained in a cup with or without a spacer skeleton), and are fitted into the swingarm. A spacer rides directly on the bearings. They require lubrication also, and if left without care for extreme periods of time, or subjected to high wear, they can be the hardest to replace.

Lubrication of the bronze bushings



By tapping on a long drift, or a solid rod, the bushing/bearing can be knocked out of the swingarm. Tap all the way around the circumference of the bushing a little at a time.



a good idea to replace the inner spacer/race. Th spacer on the left is rusted from lack of lubrication. At the right, the spacer shows no signs of rust, but it does have a groove, or step





WRONG

It's essential when installing the bearing/bushing that it is tapped in carefully, square with the pivot tube. A plastic mallet is very handy in preventing damage to the new

and the needle bearings is normally by hand-packing, or oiling. Usually, the oil-type arms will have a small fill bolt that can be removed. If your arm has one of these, the bolt can be replaced with a zirc fitting and the system can be switched to grease gun lubrication. Some of the needle bearing cages are such that external lubrication is almost impossible. These bearings must be packed directly by hand. Whichever system you have, be sure to lubricate it

Bushing removal can be difficult at times, so if you become stymied, take it to your local shop. I've seen bearings that had to be literally ground out of swingarms. If you don't let them get too far out of hand, though, they usually aren't too difficult to remove.

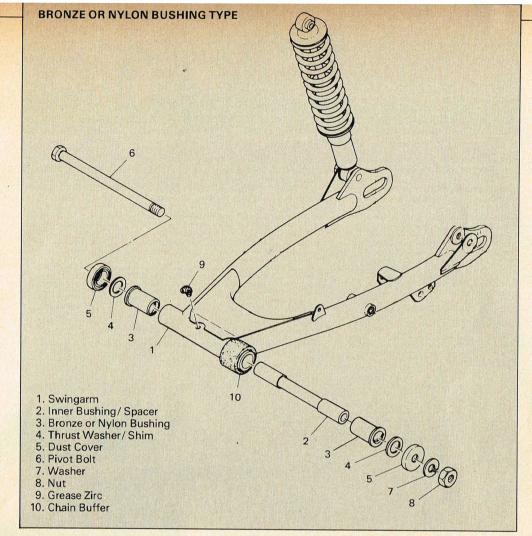
Removal of most swingarms will include removing the rear wheel, chain and shocks. Some models will also require removing the rear brake pedal, if it pulls across the swingarm pivot

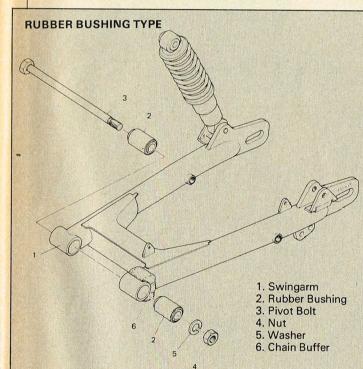
After that, remove the nut from the end of the pivot bolt and carefully tap the bolt out while supporting the swingarm. Either obtain another pair of hands, place something under the arm to hold it up, or leave one shock loosely attached. Some bikes have no nut on the pivot bolt, but are threaded into the frame. They usually have a pinch bolt at either or both ends, so be sure to loosen them first.

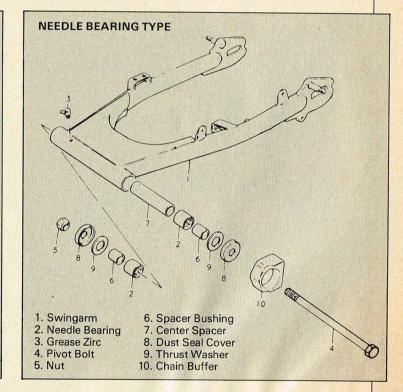
A couple of other machines, including CZs, have (instead of a pivot bolt) a threaded spacer with attachment bolts in each end. Removal of either of the bolts will do fine.

If at this point the pivot bolt/pin will not move, then a hammer and drift will be necessary. If this area hasn't seen any lubrication since you bought the bike (was it two years ago?), then the mess could very well be rusted up. Sometimes a ratchet socket extension can be used as a long drift. If it takes a good deal of force, damage will probably occur to the bolt and the bushings. Prepare to buy a replacement

Once the swingarm is removed, keep track of the spacers, grease caps, O-rings, chain guards and thrust washers that may be on each end and in the center on some bikes - of the swingarm. Lay the pieces out on a clean rag in the same order that they were removed. Some arms, the bronze bushing and needle bearing types, will sometimes have one long spacer or two short ones that the bearings ride on, with a third spacer in the center to







maintain proper distance. Some that either use a floating engine mount, or have the pivot bolt

going through the cases, may have O-rings and thrust washers on each side of each end. These swingarms. because of their "H" configuration, sometimes have more small pieces, so (Continued on page 66)

High and Mighty.

When it comes to all-around performance, nobody outperforms First thing you notice about these boast more than 11 inches of Suzuki.

Case in point:
The RM-125, 250 and 400.
Completely Re-worked.

works bikes.

If you thought the RMs were hot before, wait 'til you ride these new screamers. From conical front hub to the full floating rear brake, these bikes have been entirely re-designed. They're taller, lighter and quicker than ever. In fact, except for the exotic metals used in G.P. machines, the new RMs are almost identical to the

Team Suzuki Look.

Ride with care-wear protective apparel and help protect the environment. Member Motorcycle Safety Foundation

machines is the G.P. styling. For instance, note the new worksstyled tank which allows the rider houses can be dialed in for any to shift his weight farther forward track. Front air forks are infinitely for better control.

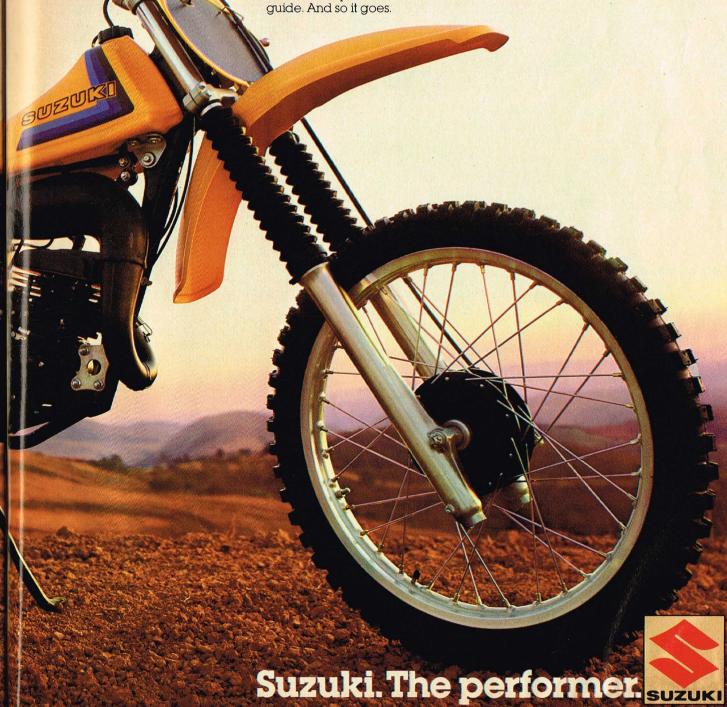
More Travel. All three bikes travel-front and rear! And each of these long-legged poweradjustable. In back, the improved box-type aluminum swing arm uses forward mounted gas/oil reservoir shocks which offer 2-position adjustable damping and 3-way adjustable spring load settings.

Wider Power Band. This

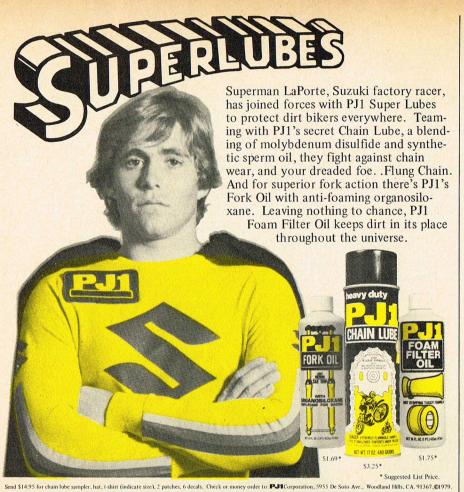
year's Power Reed™ mill delivers 6-speed gearbox while the 250 more 'oomph' throughout the and 400 come with a 5-speed. The Works. Everywhere you look on these machines, you'll find works equipment. Witness: Heavy duty chain tensioner. Magnesium brake panels and engine side covers. Aluminum alloy rims. G.P. number plate and cable

If all this sounds like Suzuki is out to dominate the MX wars with these weapons, well, you're hearing right.

Now you know why the RMs are the leading performers on the world's MX stages.



total speed range. RM-125 uses a









SCOTT BOOTS

(Continued from page 34)

a bit silly at first and tend to clomp around like a robot in one of those wretched Japanese monster movies.

When riding, it's wise to check your particular bike for possible hazards before you wheelie off into the sunset. On the Honda Elsinores, for example, there's a thin metal rod near the brake pedal that fits exactly under the lip of the ankle area. This could snag your foot and prevent you from getting free of the peg. So, check closely before you ride.

Also, it's a good idea to check the sides of your bike where they might come in contact with the inner side of the boots. A sharp edge, or a stray hose clamp, could carve right through the plastic as you ride.

Naturally, because the Scott boots are so strong, feel is reduced. It takes a while before shifting and braking become natural. But, that's normal, even for a pair of new conventional leather boots. By the third riding session with the Scotts, we had compensated and adjusted for the difference.

The feeling of being bulletproof with the Scott boots on, is a real one. You just don't worry about nailing your foot on a rock when sliding. And, when kickstarting a bike, the occasional slip and whack on the instep is ignored, rather than bringing tears to your eyes.

Because the boots are light, it's easier to move your foot around. No hindrance or binding has been noted while moving around on the bike.

The only thing that did bother us, was, pardon the expression. .. sweaty feet. Even with a pair of heavy absorbent socks, your feet get very wet while riding. Scott recommends that you have an extra pair of socks with you and to change between motos.

However, everything is a trade-off. And, with the ability to seal the interior of the Scott boot off, no water or dirt can enter. On a muddy, wet track, the riders with Scott boots should have no effluvia get inside. Too, because the boot is plastic, water will not soak in (as with leather) and add to the weight of the boot.

This means that the owner of a pair of Scotts will be able to clean his boots by squirting them off with a hose. inside and out, then let them air dry.

Should you use Scott boots? If you're a working pro, you'd be foolish to use anything that offers less protection. We've seen more than one budding racing career come to a screeching halt from foot and ankle injuries.

Yes, the Scott boots are a hassle to put on. But, yes, if you value your lower extremities, you should consider them. They're not perfect, but they are the absolute maximum in protection.

CLYMER HOW-TO MANUALS

Not too many years ago, a friend of mine was looking for a decent dirt bike for absolute minimum bucks. He didn't want a trailbike or a dualpurpose bike, but he wanted a reliable used racer. His total money on hand was a fraction over four hundred bucks. He wanted to spend around three hundred.

So, we got out the latest copy of Cycle News and scoured the want ad pages for bargains. We ended up with a few likely candidates. A Yamaha 250 MX, and a pair of CZs. Now, CZs may not be the hot setup today, but they still remain among the most reliable of all race bikes ever made. . . period. A bit heavy, but extremely long-lasting with proper maintenance.

We checked out the Yamaha. It was tired looking, had a rattly sounding upper end and was puffing blue smoke. But other than that, it was in about average shape. We checked out the first CZ. It had been abused. The swingarm bushings were shot, rust was everywhere, motor mount bolts were missing and oil and dirt covered the vitals. We passed on that one.

The last bike was a three-year-old CZ 250 in what appeared to be excellent condition. The only problem was that the bike was all apart. Totally. Even the gears were out of the cases and resting in separate little boxes.

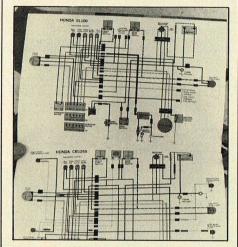
It turned out that the owner. . .a young kid. . . had gone into the service after stripping the bike totally down, and had lost interest in riding. He had written his folks and told them to sell the bike for him and send him the money.

I looked at the bike. Hmmmm. A Mikuni carb, good shocks, fresh Metzeler tires, good rims, a few lightweight racing items here and there. A check of the piston and barrel showed little wear and only a trace of carbon was on the exhaust port. In short, it looked like a bike that had been raced and maintained in a proper fashion.

I told my friend what the situation was; this was a genuine bargain, and the people were only asking \$200 for the whole works. And this included a few spare parts.

One thing kept my friend from getting this machine. At that time, it was almost impossible to get a workshop manual for a CZ. It was even difficult to scrounge up a basic owner's manual. I didn't have the time (or knowledgel to put an unknown gearbox back together, and my friend had only average mechanical ability.

As the ratchet turns **By Rick Sieman**



Here's a black and white shot of the full-color wiring diagram. Take our word for it.

Any shop around would charge him a small fortune to make a running bike out of a basket case. That would take the purchase of the bike right out of the bargain category in a hurry.

We talked about borrowing a shop manual from some CZ dealer, but getting someone to let go of one of those, is like asking to borrow a testicle for a few days. It just isn't done. Writing to the Jawa/CZ distributors and attempting to get a manual would be like requesting an end to world famine and war.

My friend ended up buying the Yamaha, simply because he had to. The CZ, once running, would have been a far superior machine for his needs.

This rather long and windy story is nothing more than an introduction to the Clymer motorcycle publications. If these excellent how-to manuals had been readily available way back then, my friend would have been able to get that bargain bike and put it back together all by himself.

We recently examined the entire line of Clymer bike manuals and added the ones for all dirt bikes to our official DIRT BIKE sagging-shelf-in-the-shop. In just about every respect, they are superior to the "official" workshop manuals you can (or can't) get.

Illustrations are, in general, clearer, and the photos are head and shoulders above the average manual. Even the copy is written in a looser, easier-tofollow fashion.

The writers have patiently avoided the prime mistake most manuals

make; that is, they don't assume that you already know this or that. They explain each and every necessary function.

Adding to the usual step-by-step procedures, all the racing bike manuals have a high-performance and racing set-up section. This includes little tricks that the racers do to their bikes to make them more competitive or reliable. This section in the European bike manuals is often worth the price of the book by itself.

CZ freaks learn about double-nutting the air cleaner parts to keep them from being ingested into the engine. Maico guys learn about troublesome motor mount spots and primary chain checking. Husky riders learn how to make the earlier air boxes liveable. Bultaco riders learn they probably should have bought a Yamaha in the first place.

One feature that is being incorporated into the newer books, is color-coding on wiring systems. As you know, all wiring schematics are done in black lines on white paper, with teeny-weeny little print telling you the color combinations of the wiring. Have you ever tried to follow a fairly complex schematic? Right. The lines start to cross each other and you give

This feature should be especially useful to riders who own Honda four-stroke singles. These bikes have a rather complex wiring system and many times, riders strip these machines down to make them more dirt-able. When it comes time to put the street stuff back on the bike again and sell it, the guano hits the fan.

Not so with the new full-color charts in the Clymer books. They're very easy to follow and even the kid who has gone crazy with a sharp pair of dykes, should be able to get all of the electrics hooked back up when he has to.

If this sounds like a rave review of the Clymer books, you're right. Every rider should have one in his toolbox for his particular dirt bike. But don't come around asking to borrow ours.

Get your own, buddy.

Where to get it and what it costs CLYMER PUBLICATIONS 12860 Muscatine Street P.O. Box 20 Arleta, California 91331

Cost per manual \$7.50 MOTORCYCLE REPAIR **ENCYCLOPEDIA**

(A general book covering about 200 different models).....\$10.00.

Suzuki DS125N

PLAYBIKE FORTHE MASSES

Learning how — the easy way

By the Dirt Bike Staff handling wasn't faulted at moderate speeds.

In a land and time of 11-inch travel and killer motors, the DS125 could be considered somewhat of an anachronism. A prehistoric holdover from days gone by, when riding was more fun than fight, and every day was spent tooling around on short, easy trails, and trying to make it up that "killer" hill that loomed over every

riding area. Suspension travel wasn't

really needed — rough ground merely called for a reduction of speed, and power was only an extension of personal bravery or peer pressure, whichever came first.

But what kind of bike did most of us learn on? Usually a stripped-down Japanese enduro bike of some sort, only graduating to the more ferocious models after we had taken our licks and learned how to crash without sustaining a major injury every time. And for every glorious new motocrosser or exotic enduro bike purchased, there was an old beater of a bike sitting in the back of the garage needing only a plug change before going out to do battle with the hills again.

A bike like the DS125. This is the

battery-less, stripped-down version of the TS125, non-street-legal, and ready to go. It's a perfect choice for the beginner, kids, and visiting relatives, because it's easy to ride, and doesn't demand a whole lot of attention to do its job.

We, of course, forced it to go everywhere our normal testing takes us, and in the process had occasion to slip the clutch mercilessly, tear chunks out of the tires, and pound the suspension senseless, and it never failed to fire on the first few kicks, or roll smoothly off toward any punishment we chose to give it.

Mechanicals

The motor is the basic TS125 powerplant using the Suzuki "Power Reed" system. What this amounts to, in layman's terms, is gobs of low-end torque for a mild 125 motor, and the ability to rev up to a respectable limit without gagging. Our test bike would pull from idle in second gear on level ground without breathing too heavily, but third was a no-no. On steep hills we often found ourselves in first gear, slipping the clutch, but only in the nastiest sections. Still, the best technique for hillclimbing a mild 125 would be to keep it buzzing, at any cost, with rider weight making the biggest difference in a pinch.

While charging down the trail, or up a nasty hill, the short suspension made itself most noticeable with an occasional heavy bottoming of both ends, although never with a total loss of control. Many times, over abrupt bumps, the suspension teamed up with the short ground clearance and gave us a few surprises. The usual result was having both feet cleaned neatly off the pegs. As in the old days, obstacles should be met with a little more than just heavy application of the right hand.

The suspension travel may be a little short (approximately five inches) by today's standards, but the frame geometry is right in the correct ballpark. Unlike the stripped-down beaters of yesterday, the DS actually steers correctly. Even in baked, hardpacked turns, no amount of front-end washout was noticed, only a vague skittishness that is most likely traced to the stock rubber. The bike comes stock with a set of flimsy knobs that flex all over the place, making it necessary to run a higher-than-normal air pressure in order to keep the rims happy.

Controls are laid out well, and the rider will find the rear brake and shifter quite hard to miss. As a matter of fact, they may find their share of rocks, hanging out in the breeze like that.

But, for the beginner, there can be no

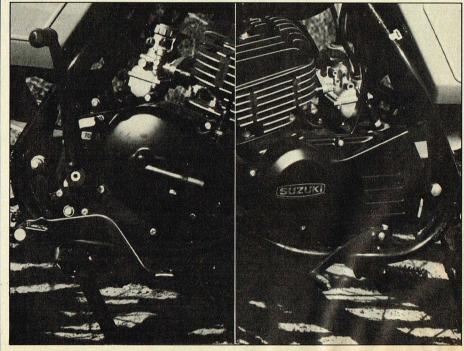




Front forks deliver about five inches of travel — sufficient for the beginner. Front brake is good, tires marginal.



Motor has plenty of grunt, should last a long time with minimal maintenance.



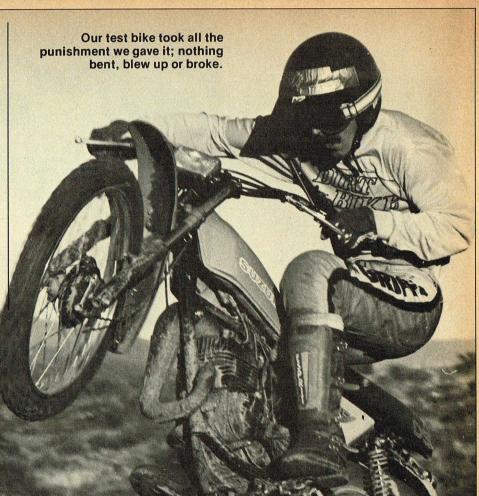
Brake pedal and shifter stick way out in the breeze. Very easy to find, easier to bend.

DIRT BIKE/ JUNE 1979

better placement of them. It is a short bike, anyone up to five feet tall will be able to put both feet on the ground another plus — and the seat-peg-bars relationship is excellent for the shorter

It all adds up to being one of our choices for a good beginning machine. Not too demanding, not too tall, or fast, and good control placement. A few of our testers complained about the DS being dangerous when pushed to its limit, but we feel that the average user of a bike like this is not going to be pushing its limit every time they ride it. And, if they do, they've made the wrong choice of bike. In our opinion, with the right rider aboard, the DS would be able to finish any enduro a 'C" class rider could enter it in, but it would be a lot happier in the hands of a

learning novice.





Suzuki DS125

ENGINE TYPE . . Air-cooled, two-stroke single BORE AND STROKE 56mm x 50mm DISPLACEMENT VM24SH Mikuni CARBURETION FUEL TANK CAPACITY8.0 liters TRANSMISSION: Constant-mesh five-speed GEARING, FRONT/REAR . WHEELBASE 1335mm (52.6 inches)
GROUND CLEARANCE 230mm (9.1 inches) STEERING HEAD ANGLE . 29 degrees WEIGHT (CLAIMED): 87 kg (192 pounds) dry INTENDED USE, MFR. COUNTRY OF ORIGIN Play-bike

.... U.S. Suzuki Motor Co.

GARACROSS MT-16 (Choice of Bob Hannah) Track surface application: semi-hard, muddy,

5.00x17/4-ply . \$79.50 3.00x21/4-ply . . \$53.95

4.50x18/4-ply . \$71.95 100/90x18/3-ply \$54.95

4.00x18/4-ply . \$66.50 ALL TUBES \$8.95

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IRELLI IRIDE

Choice of Heikki Mikkola) rack surface application: West of Mid East of Rockles West Miss.
Front \$2.00 \$2.95 \$3.50 uper hard, hard/tight, 3.00x21/4-ply Blueline \$53.95

Rear \$2.55 \$4.65 \$5.50 4.50x18/4-ply Blueline \$71.95 Tubes \$1.00 \$1.34 \$1.65

cross rider, takes his racing very seriously. He demands the best of everything. All the suspension, handling and power in the world doesn't help if he can't get the traction he needs. "The Hurricane" plans on keeping his #1 plate; that's why he uses what he feels are the #1 tires—Pirelli. Up front he breaks trail and leads the pack with the 3.00x21 GaraCross to prevent slide-outs and to be sure that his tire goes exactly where he points it, regardless of terrain or dirt hardness. His works Yamaha is powered in the rear by the 4.00 x 18 GaraCross (have you noticed all the "unusual" hole-shots he's been getting since switching tire brands?). Hannah takes pride in his racing achievements and wins — that's why he, along with other Champions like Heikki Mikkola, picks Pirelli as the tire to do the job. When you're #1 you don't take second best. TIRE DESCRIPTION (FRONT)

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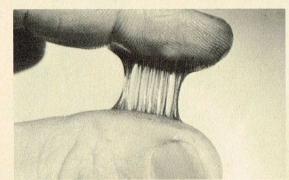
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Bob Hannah, America's winningest moto-

OK, silencer is very quiet.



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things don't stick to it, but it's a low pressure lube that's not for chains. Buy some CHAIN KOTE today-you'll get what you pay for. Safe for o-ring

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FROM THE SADDLE

(Continued from page 13)

odd creatures of the world are more important than ordinary humans?"

"Your honor, I've had it with this witness. Can we please have this geek removed from the stand and have the next witness?"

"Surely, counselor. Can someone get that pinhead off the stand and get the next witness up there?"

The bailiff stood up and monotoned: "The next witness will be the head of the Bureau of Land Management, the Son of Sam of Land Usage, Myron T. Fornescue."

Mr. Fornescue clambered up to the stand, took a grip on the podium, sneered, and said, "Fire away, chump."

"Mr. Fornescue. Is it true, that in your capacity as head of the BLM, you can pretty much do what you want

"Well, Mr. Sieman, we have a saying in the department. We do whatever we want to until a judge says 'no."

"Don't you think that's unfair?" "Unfair, unshmair. What does that have to do with the whole big deal? What it boils down to is this: You people are making us mad. And we don't like that. You wanna be our pals, then don't make any static.'

"But, what if we have legitimate gripes? What if we feel the government is ripping us off? After all, doesn't the public still own the land?"

"Listen, buster. The only part you own is the taxes. Where do you get off thinking you have the right to actually enjoy and use the land? C'mon. Grow up."

"But, why are you after the bikers?" "Are you kidding? What about all

those smoke bombs all over the desert? I mean, those things can be lethal."

"Mr. Fornescue. A smoke bomb is nothing more than a stack of used tires that race organizers set on fire to show the racers where the path of the race is. It doesn't actually explode."

"Hah! Do you think I want a 6.70x15 radial going off in my face? This is no laughing matter. You know, Mr. Sieman, I think you have been evading the basic issue of the way bikers destroy the plant life and vegetation in the desert. Our studies show that bikers have actually destroyed over 1200 samples of the rare Salvia plant in the high desert."

"Mr. Fornescue, are you aware that the Latin word 'salvia' means sage?"

"So what? You people are destroying the stuff, no matter what you call it."

"Are you aware that sage, or sagebrush, literally grows all over the desert? In fact, desert farmers pay to have the stuff removed from their

"That's OK when the farmers do it.

Ya see, they're paying taxes and you bike riders don't pay taxes to have fun. And we don't think that's fair. If you people get away with having fun and not paying the government for the privilege, then everyone will want to have fun for free. Can't you see that?"

"Mr. Fornescue, not only can we see that, but it's one of our goals."

At this, Forescue blanched, turned pure white and passed out. His head hit the floor with a hollow thwack. Two deputies grabbed him by his wing-tipped, suede shoes and dragged him out of the room, with his tongue lolling out of the corner of his mouth. I smiled inwardly. A minor, but satisfying, victory.

"Yr' honor. For my last witness, I'd like to call the Reverend Dr. Lucius T. Thumbwhacker."

A murmur went through the crowded courtroom. Heads turned as Reverend Thumbwhacker made his dramatic entrance, black robes trailing behind. The good Doctor swore in on a stack of bibles and stated his credentials:

"I am, of course, the spiritual leader of the First Amalgamated Church of the Liberated Sand Wash. On the Seventh Day of the week, Sunday, the faithful followers make a confirmation of their faith by traveling a vast distance in the great Mojave desert. The fact that we do it on dirt bikes, is incidental.

"Therefore, we demand that the BLM get off our backs, because we are merely exercising our religious freedom. In actual fact, I feel closest to Our Creator when I'm in fifth gear on a fast fireroad. The more orthodox among our following tend to find peace on off-camber slopes, though. Even though I ride a tired old CZ, I feel that. . .'

The judge interrupted, "You ride a

"Certainly," replied the good Reverend, "it has the virtues I demand in a bike. Reliability, an honest machine for the dollar and reasonable manners in the rocks. I find the machine very fulfilling."

"Well," went the judge, "I've got a CZ too. Mine's a 250 Falta. One of the last ones sold in '77. Of course, I've got it all tricked out to the max.'

"Naturally," said the Reverend, "you just can't do it right on a stocker. I've got Fox Shox and Marzocchis on mine, plus everything's plastic. And I mean everything!"

"Say, whattaya using for a carb?" "Well, I bolted a Mikuni on it and...

I smiled, put all of my papers back in the official DB briefcase, and quietly slipped out of the courtroom. After all, I didn't want to interrupt the Bench Racing, now did I?

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	OSSA (flaming)		LETS BOOGIE
	HUSQVARNA (flaming)		THE DEVIL MADE ME DO IT
M-246	KAWASAKI (Big Bike Racer)	R-248	
M-280	HONDA	CM	CHOPPERS MAGAZINE
C-100	BSA (flaming)	MXA	MOTOCROSS ACTION MAGAZINE
	SUZUKI (Big Bike Racer)	BB	BIG BIKE MAGAZINE
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	TRIUMPH (flaming)	RV	VAN WORLD MAGAZINE (Do It In Your Va
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SWINGARM TECH

(Continued from page 55)

keep an eye out.

Removal of the bushings is most easily accomplished with the swingarm in a vise, or clamped solidly to a work bench. The bushings will normally have to be tapped out with a hammer and long drift, preferably a brass one. The bushings will have to be knocked out from the opposite end of the swingarm pivot tube. By moving around the lip of the bearing/bushing, they can usually be tapped out without much difficulty. (Be sure that you are not tapping on a stepped lip or built-up area on the inside of the arm. This can be deceiving.

If you don't have the proper tools, or are having a difficult time, your local shop should have a special tool for pulling them out. Many times it is worth the money to avoid the hassle.

Before installing the new bushings, be sure to clean the inside of the swingarm and the other spacers, etc. Inspect the spacers and pivot bolt for rough spots, galling, pits, grooves or rust. If they are worn much, then new bushings alone aren't going to cure it. New spacers or a pivot bolt/pin may be necessary. Check all the rubber O-rings and seals for deterioration.





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Bushing installation is usually best performed with a press. It can, however, be done with a little patience and normal hand tools. By tapping them in with a plastic mallet, soft brass drift or hammer, or with a soft aluminum slug, they can be reset. The critical factor here is that the bushings — the bronze and needle types especially — be installed straight. If they are forced in at an angle, then they can easily deform and develop high spots. At that point they are as

Once the bushing is "squared" with the tube, a large socket of slightly smaller outside dimensions can be used to set the bushing to the stops. A light touch and patience are necessary.

worthless as the ones you just

removed. Go back to square one.

Oil the bronze bushings and their assorted spacers, and grease the needle bearings and their appropriate parts before putting them back in order. Be sure to install the chain buffers, rubbing blocks, guide rings, or anything else on the outside before sliding the swingarm back in place. Also, ensure that the mating surfaces on the swingarm are clean.

Lubricate the swingarm pivot bolt and slide it back in through the frame. You may have to rock the arm gently to line everything back up. It should go back together easily.

On some of the machines with a floating rear engine mount, it is sometimes easier to remove the mount from the engine and line it up with the arm. It just depends on the spacer/thrust washer situation. Older CZs are more easily done this way.

Be sure that the pivot bolt is installed from the same side as it was removed, since some of the bikes have tab lock washers or welded stops for the bolt head. Tighten the pivot bolt.

Now, check for free play. Also, on the bronze and needle types, check for smooth up-and-down movement. If the swingarm is stiff, binds, or is locked up solid, then it is possible you have left something out, or in some cases, the center spacer has either been worn down, or mashed, so that it's too short, causing improper alignment. Checking the length against a new spacer will let you know what the problem is.

On the rubber bushing type, don't tighten the swingarm bolt until you install at least one of the shocks. This type of bushing has a torsional stiffness that can be felt when the arm is moved up or down. Tightening it in the proper shock angle position means that there is no undue stress on the rubber when the bike is at rest.

Bolt up the shocks, rear wheel brake arms, etc., and adjust the chain. The new bushings should make a big difference.

CAN-AM250

(Continued from page 33)

jet, dropped the needle down a notch, and had a ball. The Qualifier handled predictably on the narrow, twisting trails, and hauled a -- on the fireroads. Some of the trails were baked dry, zero traction, and pointed out the only problem with the tires — they are a lot happier with something to grab. If it only came stock with Metzelers.

Bits and pieces

One other thing we did that may have improved the power somewhat: The bike comes equipped with a tank full of Can-Am injector oil, and we had some Duralube injector we wanted to try out. We were fooling with the jetting at the time, so we can't be completely objective, but the smoking stopped and the feeling of richness went away. We'll keep using it, and let you know how it turns out.

This must be the quietest dirt bike in existence. We could watch the Qualifier squirting dirt up the hill, and could hardly hear it at all. Why can't everyone make bikes like this?

The air filter threads onto the top of the air box. Keep it greased, and screw it on tightly — it can come loose.

Throttle control is provided by the old dual Magura assembly, something on the order of a half-turn to wide open. It could genuinely use a quicker throttle.

We came smoking down a fireroad the first day out, and by the time we got back to the trucks the brakes had faded almost entirely. There may be a problem here, or we may have been riding them a little too much.

Levers are dog-leg Maguras — really nice, and unbreakable.

The plastic fuel tank comes with one of the neatest filler caps in existence. Very easy to operate, very fast. Don't screw it on too tight.

Summing up...

The Can-Am is an impressive motorcycle. It does everything well, and should live a long time. The attention to detail is fantastic, with the possible exception of the centerstand.

"But, I can go down to my local dealer and pick up a PE or IT that'll do all that too, and spend a lot less money," you may think. But, if you're serious about your riding, you'd do well to consider the Can-Am. Why? Three reasons: The price is within \$100 of the two competitors, and in some parts of the country the Can-Am may even be cheaper. Two: The Qualifier has a 90-day warranty, which is 90 days more than the other two have. Think about it. Three: The Can-Am is the most ready, best-working qualifier mount we've ridden to date, bar none.

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66 DIRT BIKE/JUNE 1979

YAMAHA IT400F

(Continued from page 53)

provides a good feeling just thinking about it. Hoo hah!

As a package, though....

With all the changes this year, the IT400F is undoubtedly head and shoulders above even last year's machine and worlds apart from the C and D. It's lighter, stronger and turns better than any enduro Yamaha has built up before with this engine displacement.

The machine is much more willing when it comes to turning, especially on

very tight switch-backs. The front end sticks better and turns better with fewer rider-initiated gyrations. The brakes are also an improvement over earlier models. There is a certain amount of pedal fluctuation that comes from a non-floating brake, but revised lining material has made them much more progressive stoppers. The front is very strong — two fingers can be more than enough.

Both ends of the suspension are well-suited to the task. It is a little soft for severe desert work, but for 95 percent of the riding terrain, the IT is properly suspended. Travel is adequate for enduro work. Seat height is not too

"... The only oil which we can recommend for use in your Suzuki is Golden Spectro, which is now being carried by MOTO-X FOX. This is a synthetic oil which works well in any ratio with a recommended ratio of approximately 40:1..... It's the cleanest running two-stroke oil we've found, and it exhibits the best lubricating properties as well."



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Moto-X Fox got where they are by being smart. When you're the #1 privateer you have to know what you're doing. Moto-X Fox has no factory full of engines. They have to make horsepower like everybody else and make it they do, but they can't afford to take chances with their engine oil. Moto-X Fox race bikes are properly lubricated with Spectro products from front to back for two reasons: Spectro products

work better than anything else, and Moto-X Fox is smart enough to know it.

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Golden Spectro Chain Lubricant. A liquified grease so waterproof it's hard to wash off even on purpose. Flows into rollers and set up so it won't fly off. Greatly increases chain life and totally safe for O-rings.

Coming soon: Golden Spectro suspension fluid. Makes even high quality popular fork and shock fluids obsolete used as factory fill for Moto-X Fox shocks.

THERE'S MUCH MORE ... WRITE FOR A SPECTRO BROCHURE AND ASK YOUR DEALER FOR SPECTRO PRODUCTS. IF YOU WANT TO BE SMART LIKE A FOX.

Intercontinental Lubricants Corp. Box 208, Brookfeild, Conn. 06804 high, so that stepping off the high side is not too much of a problem. The bike is comfortable for long periods of time, and the rear suspension won't turn your internal organs into omelets if you ride in little choppy stuff. Ground clearance is good, too.

As usual, the IT is one of the bestequipped enduro mounts offered on the market. It abounds with little tricks. Its standard equipment is strictly add-on aftermarket stuff on some of the other enduro rigs. The rider really has no want for anything additional in the way of set-up goodies, except for a pair of Vise-Grips and perhaps some other special tools. The bike is built with trail-side maintenance in mind. Quickchange wheels, enduro bag, folding levers, skid plate and fat tank usually have to be purchased for other enduro bikes.

These are just some of the aspects that make the IT such a desirable machine. The added pluses of an excellent engine and much better handling and suspension make it really hard to beat for the bucks.

Which is why we should be absolutely in love with the 400. But, with the exception of the enormomotor, we're not really. The weight of the Yamaha, while down substantially, is still nine to 21 pounds heavier than the competition — the European and Canadian mounts. When these other bikes are equipped similarly to the IT the weight margin is diminished, but the big difference is where the weight is. The IT, by nature of its monoshock, carries its weight up high, under the tank. This top-heavy feel is noticeable. The rider must make a concerted effort to throw the IT down in a corner and work to keep it there when stabbing at the brakes or applying throttle.

Handling and suspension — quite good in comparison with past efforts just aren't on a par with the European machinery. The Husky 390, KTM 400, Maico 400/450 and the Can-Am 370 all handle better, track better and are suspended better — stock — for more conditions and riding situations. They are also \$300 to \$500 more, and that doesn't include any enduro options on some of them.

That puts the buyer in a very tough position. Better bikes are available, but the Yamaha is a lot of machine for the money — especially considering it is ready to roll. To discount the financial aspects is to be unrealistic.

And, in the end

Yamaha's IT400F is sort of like a big, friendly, shaggy dog. You just can't help but like its good nature and willing ways. It always tries hard to please and provides the owner with a feeling of satisfaction — especially what comes from its big heart.

LEGAL UPDATE

(Continued from page 18)

my young son (eight years old) who just received his first motorcycle this Christmas. He is not old enough to understand what runaway bureaucracy can do to our freedoms, but I hope the time will come when he appreciates the American Constitution as we do. Use this small contribution in any way legally to further the cause. Good

> David S. Stallard Cincinnati, Ohio

I've never ridden in the desert, but I'm on your side! Here's two bucks. I hope it will help.

> **Andy Frost** Dubuque, Iowa

The Phantom Duck of the Desert: Here's my check. As we say in the Oklahoma oil fields, "Let's get after their wild ass."

> Don Price Oklahoma City, Oklahoma

These excerpts from letters you've read, are just samples of the thousands of pieces of mail we've received. Some folks don't have any money to spare at the time, and write anyway. We wish we had the time to answer each and every letter personally, but, sadly, we

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can't. Just about every evening of the week, we meet with clubs, groups, reporters and whatnot.

We read the mail from dirt bikers and sometimes come near to tears. All across this mighty nation, we have a frustrated mass of people who want to have their fair share of land, but are stifled at every turn.

We have a chance right now to change all of that. Our goals are to make the Phantom Duck of the Desert a powerful and feared political weapon. We want to be able to apply influence and get "our" people elected to key offices. We want the BLM to quiver when we walk in the door. We'd like to be able to have a network of lawyers we can turn loose in any area of the country. If some land is going to be shut down and it's land that should be left open for off-road/recreational use, we'd like to take it to the courts. Fight every battle possible.

We realize that this goal is a long way off, but it is attainable. We've done some homework and know that there are approximately 11 million bikers in this country. About half of them are off-road folks. If each one of them would send in one buck. . . one dollar. . . we could have a war chest that would send pure, absolute terror through the hearts of the bureaucrats.

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offensive, even before we thought of it. We got the following letter from the Horney Toads Motorcycle Club, and we'd like to share it with you:

Attention: Mr. Rick Sieman Dear Rick,

At our recent meeting, the Horney Toads unanimously voted to forward the enclosed donation to the "Legal Attack Fund." We are a small familyoriented enduro club which recently had our first anniversary. This donation is a significant share of our treasury. We feel it is entirely justified and commend the work you and your associates have done in regard to the Barstow to Vegas race.

In order to continue donating to our mutual cause, the Horney Toads also unanimously decided that any member of our club who enters a race during 1979, must contribute an additional dollar per rider to the Horney Toads. All additional money contributed for each race will then be immediately forwarded in the name of that race to the "Legal Attack Fund."

Since our club officially participates in anywhere from 10 to 15 races per year, you can look forward to receiving a number of donations from the Horney Toads during 1979.

> Very truly yours, Dennis P. Arnold President

The Horney Toads Burbank, California

"I could have been a handsome prince, but it's more fun being a horney

Our thanks to not only the Horney Toads, but to everyone else who has helped make the Phantom Duck of the Desert a very real power that can effectively fight the system.

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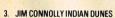
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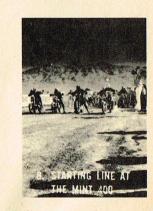


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LAST OVER

(Continued from page 8) least once a week. I drilled a hole in the mag cover and installed a vent — every mag should have one — and made sure the lower end vent was still clear. A quick look at the crank end revealed that we didn't have a bad mag seal, small miracle, so we proceeded to glue it up tight.

Finished with the motor, we turned our attention to the coil, not at all surprised to find it rusted to the downtube.

"Well, Supe, this is the moment of truth. If we clean off all that rust, the coil might just drop off the next time you start it. 'Course, it just might run a little better. Whatta ya think?'

"Throw caution to the wind. What have we got to lose?" Sound judgment, that's what I like about the boy. We sanded the area clean, and then Loctited the coil back on. Supe broke open the ceremonial tube of silicone seal, and we gooped up everything that even looked like a wire, and then did a generous job on the air boot between the air box and the carb. We built a masterful maze of duct tape around the top of the air box and the frame tubes, after greasing the filter down, and then

continued the taping process after reinstalling the tank and seat. It was a work of silver art. There just wasn't any way water was going to get in, at

One more thing remained to be done. We removed the kill button and replaced it with a two-wire affair, insulating it from the bars with electrical tape. Presto, no more impromptu electrocutions.

I packed up my kit, and left Supe to the rest of the labor. Nothing really left to be done, actually. Just pull the wheels and clean them out, check the bearings and repack them, tighten everything up, and go for it.

Sunday morning, bright and early. Sucking down coffee under the railroad bridge on 72, right outside Chatsworth. A beautiful day, a good hundred-mile day, at least. I planned to start out on the roughest loop I knew, and leave the easy stuff for the afternoon. There was plenty of wet stuff on this loop, with one 50-yard, two-foot-deep, sand bottom cedar swamp right in the middle. I knew the Cooper could make it through the major part of the loop, but that water hole made me a little nervous. "Oh what the heck, I've been through it a dozen times" I thought. "The rest of the day will be dry after

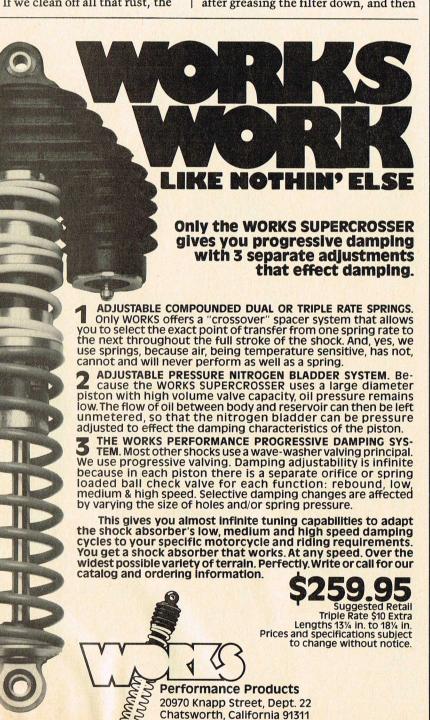
So off we went, both bikes running strong. It was a nice day - not too hot, the sun shining, we even had a couple of land owners wave to us. Now that's unusual. Supe's bike charged through everything we threw at it, and never popped, spit, or even backfired. What a

I knew I was getting close to the deep one, so I started pulling up ahead, so he wouldn't have to wait for me to get through. Supe knew what was coming up, so he hung back and let me move up. I rode up over a slight rise, came down on a bit of two-track, took a sandy right, and dove right in, picking a line that would straighten out the right turn somewhat. I slipped for a second in the middle, got a little more of my leg wet than I would have liked, but chugged right out without any more trouble. I could hear Supe hitting the water at the other end, so I kept going, to dry the brakes out some. I pulled over a quarter-mile ahead, and waited. And waited. Uh oh.

I got back there, and there was Supe, sitting on a dead bike.

"What happened? A totally brainless geek couldn't have drowned out that

With a sopping right hand, he held up the stub of what used to be a throttle cable. It hadn't been routed correctly, and frayed until it broke, right before the bank of the water hole. I drowned him on the spot, and had him buried at my own expense.



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DG Performance	
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Don Vesco Products	
Dunlop	
Esprit	15
Hi-Q	11
Inter-Am Bike Supplies	9
Intercontinental Lubricants Corp	68
J.T. Racing	63
Kal-Gard	10 40 44
Kawasaki	. 19, 40, 41
Klotz Special Formula	70
Laidig's	70
Motocross Engineers	58
Moto X Fox	66
Nippondenso	.27. 28. 29
Nissan (Datsun) Motor	76
No America School of M/ C Repair	15
Number 1 Prods	
Penton Imports Hi-Point	
Phartage Diday	/0
Phantom Rider	/
Plus Products Acc	67
Plus Products Tops	65
Plus Products Buckle	67
Plus Products Watch	9
Pro Numbers	69
Real Cigarettes	35
Russ Darnell	
Cup Matal Drad Inc	/3
Sun Metal Prod. Inc	
The Knobby Shop	66
U.S. Suzuki Motor Corp	. 20, 56, 57
Wiseco	15
Work's Performance	72
Yamaha	75
Yamaha D7	19 10
Yamaha MX	36 37
Yamaha MX	36, 37
Yamaha MX	36, 37

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72 DIRT BIKE/ JUNE 1979

Crash and Burn

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Photo by: J.T. Grossenbacher Jr.

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1ST PRIZE: 1979 Toyota 4-Wheel Drive Long Bed "Yamahauler" truck with Yamaha MX175, MX100 and GTMX off-road bikes. Plus a trip for two to the \$500,000 Toyota/AMA Supercross Series in Anaheim, California, with air transportation and hotel accommodations provided.

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4TH PRIZE: Three Sets of Yamaha Off-Road Riding Gear-For man, woman and child, includes Helmets, Goggles, Jerseys and Gloves!

5TH PRIZE: 1,000 winners will receive a "Yamahauler" decal.

YOU GOT IT.
TOYOTA

Enter today! Get prize details and entry blanks at participating Toyota and Yamaha Dealers and send to: Get Away From It All Sweepstakes, P.O. Box 6686, Chicago, ILL 60677. Winners will be determined in a random drawing August 31, 1979 from all entries received no later than midnight, August 15, 1979. Licensed drivers only. No purchase necessary. Void where prohibited. Sweepstakes closes August 15, 1979.

When you know how they're built.