

108 HORSEPOWER SUPER KAW Z-1

MOTORCYCLIST

UK 50p

# Motorcyclist

02179 AUGUST 1976 \$1.00



## Ekins Rediscovered's Baja On IT400

## FIRST TEST! Yamaha XS360 4-Stroke A Bike For All Reasons

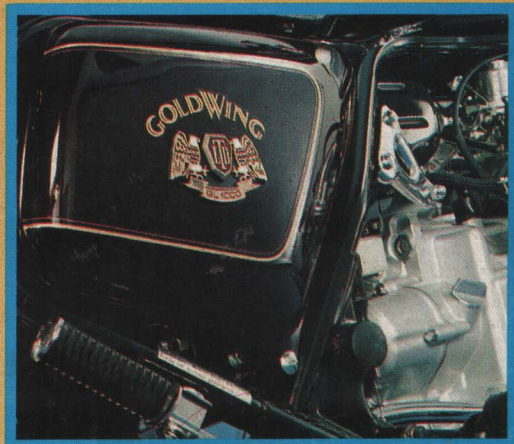


### HOW-TO's!

### CB750 RM370 R90S More FatBob

### BUYER'S GUIDE!

### Mags And Other Trick Wheels



### Honda Springs A Real Masterpiece

71486 02179  
KOGINAS\*5810C174 8001  
JEFF GAINNEY  
32 S 19TH  
RICHMOND  
IN 47374

Most of us who have had a chance to ride the Yamaha TT500 or XT500 four-stroke single have fallen in love with the go-anywhere power that only a big single with valves can give.

Sure enough, it didn't take the aftermarket boys long to come up with a bunch of bolt-on options to improve the performance and handling. What is now available brings Yamaha's 500 single from the category of outstanding to excellent for long cross-country jaunts and serious off-road competition.

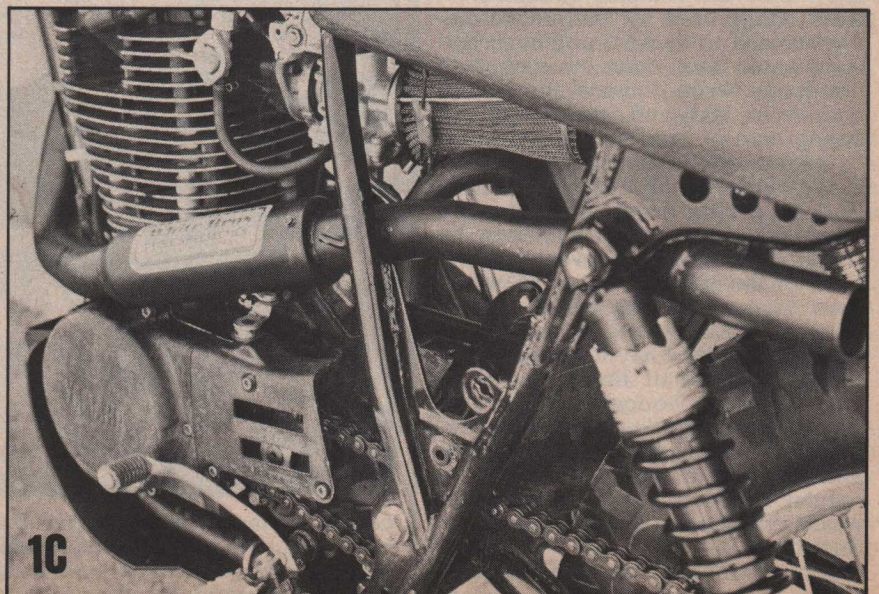
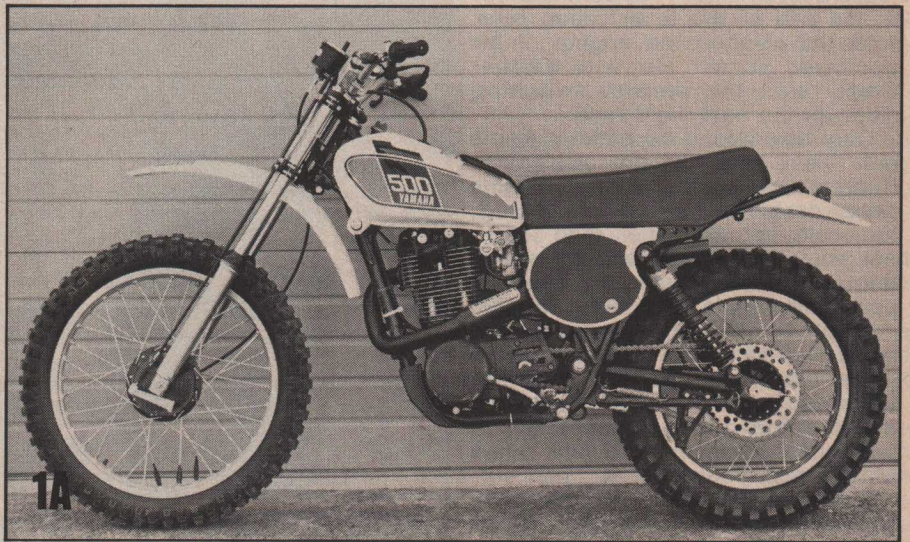
The following article deals with the available goodies in two parts. A "bolt-on to your existing model in the driveway" type or Phase One and a complete Baja type off-road racer project in Phase Two. All you really need for either phase is a Yamaha 500, a fair selection of common hand tools and a checkbook. The last item should contain enough reserve funds for retaining an attorney if you are married because once you throw a leg on the 500 Yamaha with its new goodies installed, your bride will become a weekend widow.

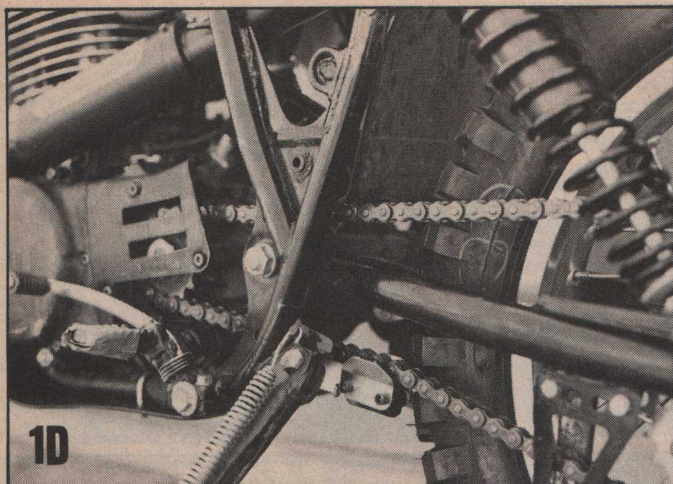
# Giving The Yamaha 500 Thumper The Old "One-Two"

TEXT AND PHOTOS BY BRYON FARNSWORTH

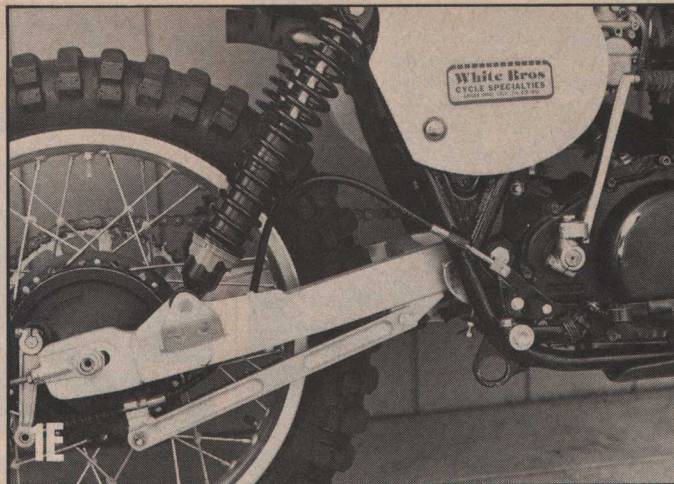
## Phase 1

The first phase consists of the items available at press time that we were aware of. If we've failed to mention anyone who makes something trick, let us know for a follow-up. The phase one stock frame TT500 thumper weighs 15 pounds less than the original due mainly to the replacement of the standard exhaust pipe with a White Bros. high level pipe. We've also shelved the 10-pound O.E.M. shocks for a pair of S&W strokers. This is what accounted for the weight loss. To see how and what was done, follow the photo sequence.

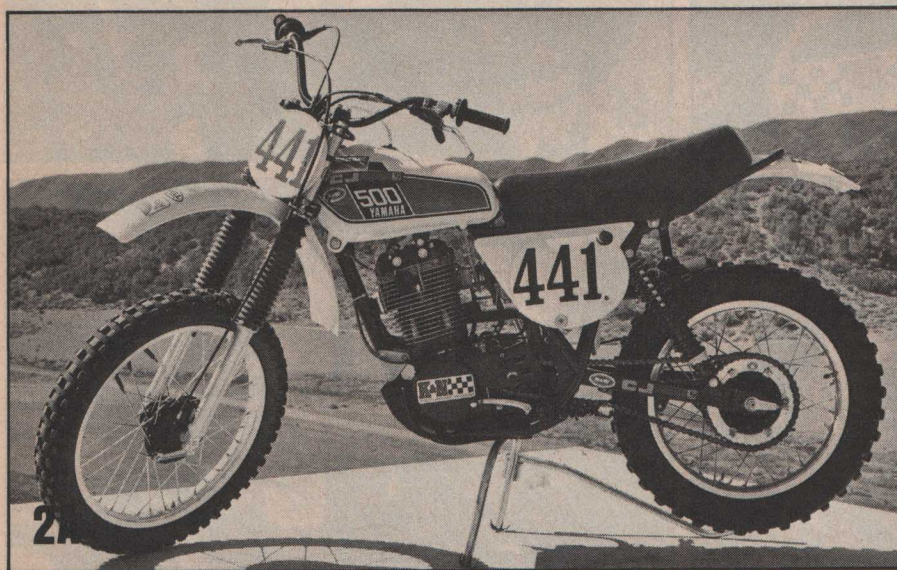




1A Enduro-ready TT500 features 450x18 Goodyear DSII rear and Cheng Shin 350x21 six-ply rubber. A must for Baja's rocks. Author/Yamaha combo finished the tough Mexican Baja Tecate 500 two-day enduro in seventh overall and sixth in open class. Graham Sheet Metal's aluminum skid plate saved the cases. 1B Webco's VDO speedo kit includes bracket, cable, drive unit and spacers for TT500 Yamaha. Right-on accuracy with a 350x21 tire was less than 1/10th mile off after 10 miles. Route roll holder on Inter-Am aluminum bars is a must. 1C White Bros. high pipe has repackable glass silencer. Stock air box can be removed but pipe will clear standard air cleaner. K&N filter goes on standard carb fitted with a 230 main jet and

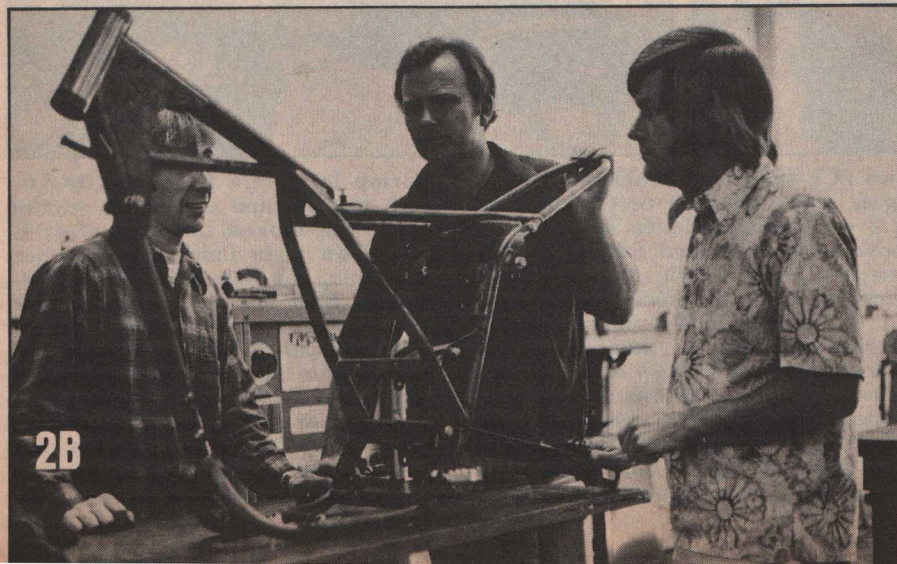


the needle raised one notch. S&W "stokers" use 95/125 springs and 14.250 eye to eye length. Best shock going for \$59.90 a pair, plus springs. 1D Chain tensioner by "Up Tite" has mild spring tension and doesn't rob hp. A must for any forward mount or lay down suspension system. Diamond 520 chain runs around CT alloy sprockets. 15-tooth in front and a 48 rear. Good for an honest 90 mph across Diablo Dry Lake. 1E White Bros. alloy swing arm and rear brake cable kit takes the hop out of hard braking on the TT500. Cable kit isolates the wheel travel from the pedal and "softens" the brake action to reduce wheel lock-up on loose surfaces. Cable stop at pedal end must be welded to frame tube.



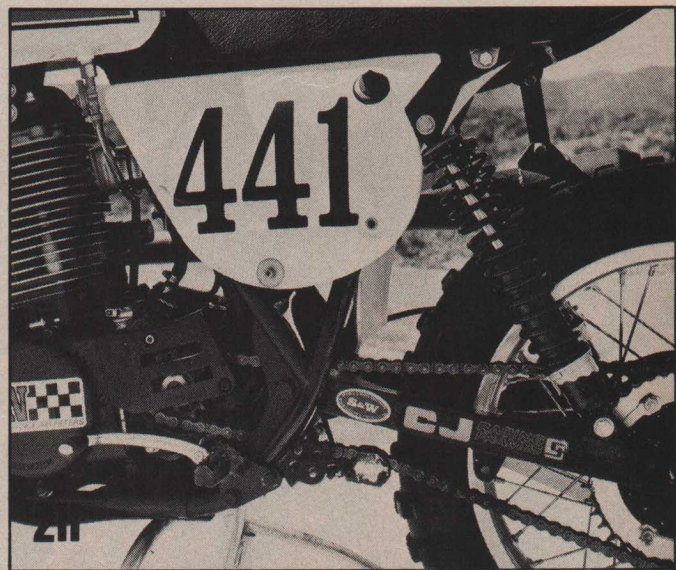
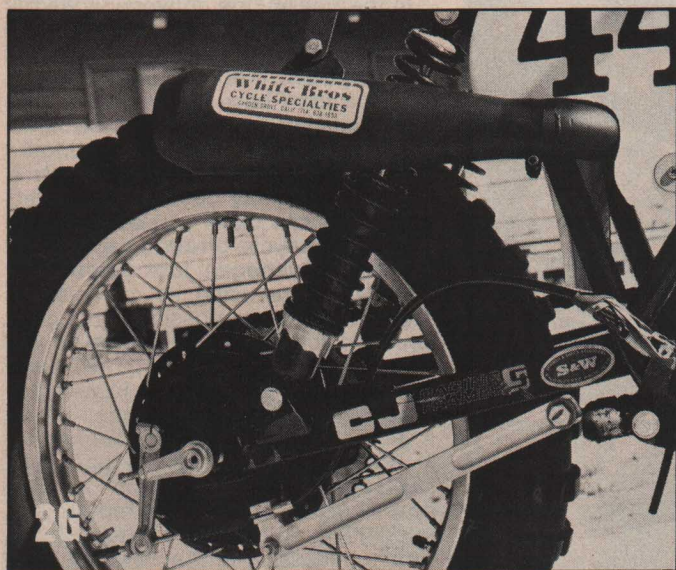
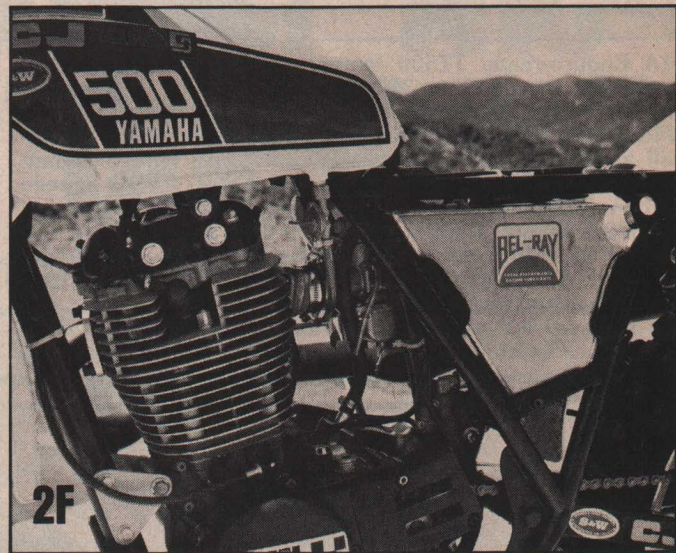
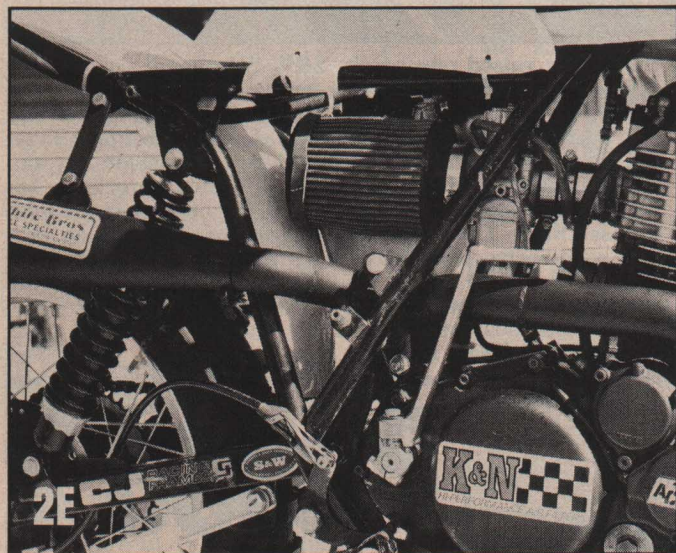
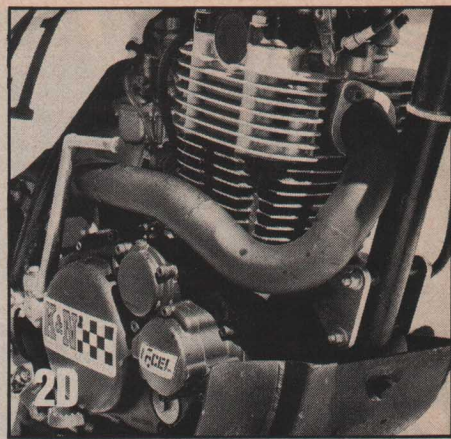
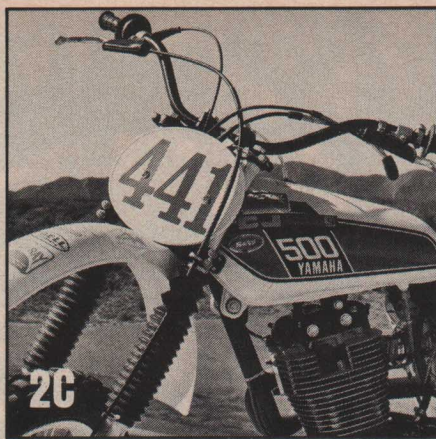
## Phase 2

In the Phase One conversion we offered a simple solution to improving performance and handling with bolt-on equipment that was fairly easy to do. With the Phase Two setup, we've done just about everything possible to assemble the ultimate off-road four-stroke. The foundation starts with a C&J chrome-moly heliarc jig-welded frame that can claim just about every major motorcycle off-road race since the company began four years ago. Because we're using as many stock Yamaha parts as possible, the construction doesn't require special equipment or excessive welding. The Phase Two assembly can be done in your garage with hand tools, but does require a more advanced "home mechanic" to do the job right. All the parts are available by mail order from a retail dealer or at your local motorcycle shop. The following photos show what's necessary and how to do it.



2A Trick thumper uses Yamaha YZ400 forks and wheels, TT500 aluminum gas tank and seat. Petty "Mudder" fenders don't break and fit the C&J chrome-moly frame perfectly. Graham Sheet Metal aluminum skid plate also fits standard XT and TT500 chassis. Wet, ready-to-ride weight is 245 pounds and outa sight handling. 2B C&J owners Jeff Cole (left) and Steve Jentges (right) discuss basic frame layout with National Motocross star Jim Weinert. Geometry is Baja race proven by Bill Bell's C&J/Long Beach Honda's racing success.

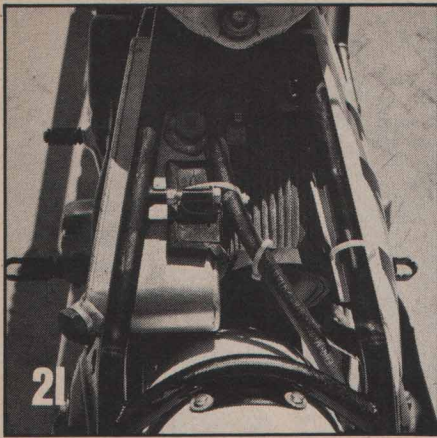
2C 1976 Yamaha YZ400 forks have air tops removed, TT500 springs and additional reservoirs for 300cc Bel-Ray 20-weight fork oil capacity. Eight-inch travel soaks up the Baja rocks like a sponge. Solid aluminum Inter-Am bars help with the big jolts too. 2D TT500 engine has clean-up porting, standard bore, .060-inch removed from cylinder for 10.5:1 comp ratio, Megacycle cam and springs like Rick Hocking used to win the '76 Astrodome TT National. Mikuni/Sudco 36mm carb on a Pro-Tec manifold breathes through a big K&N filter. Accel spark plug is fired by stock ignition with no problem. 2E White Bros. custom pipe is finished off by C.R. Ax-



tell's Megaphone. Baja doesn't require a silencer, yet. MX400B Yamaha side covers are attached by one screw each and swing up to service air cleaner for quick pit stops. Pipe is out of the way and clears your leg. Pro-Tec neoprene overhead oil line replaces stock metal one. 2F C&J custom alloy oil tanks holds 2¾ quarts of Bel-Ray 40-weight racing oil. Tank set in rubber and has no mounting lugs to fracture. Single bolt-on top holds it snug. Engine breathes through a one-way automo-

tive PCV valve. Stock aluminum tank gives a racing range of 65 miles on 2.2 gallons. 2G White Bros. cable brake conversion and S&W's 14.250-length shocks really make a good combination for improving wheel hop. LL damping and 100-pound springs worked out best for Baja. Stock YZ wheels and rims held up okay. The XT rims won't make it; use TT500 rims instead. 2H "Up Tite" tensioner from Malcolm Smith or White Bros. guides the diamond chain. Baja 100+ mph

gearing by Circle Industries is 16-tooth in front and a 44-tooth at the rear. Bike looked like this after a hose down upon finishing 481 miles pre-running the Baja 500 race course. 2I K&N filter just fits beside custom oil tank. Mikuni carb used a 250 main jet to mix with the extra air flow. Engine breather hose is routed to rear of back fender for sanitary reasons to expel slight mist. Oil temp runs near 300 degrees for hot Baja racing, but no cooler has been needed so far.



#### WHERE TO GET THE GOODS

Bel Ray  
P.O. Box 526  
Farmingdale, N.J. 07727  
LUBRICANTS

Circle Industries  
17901 Arenth Ave.  
City of Industry, Calif. 91748  
SPROCKETS

C&J Precision  
3873 S. Main  
Santa Ana, Calif. 92707  
EXHAUST PIPES • FRAME

C.R. Axtell (Dell'Orto)  
5210 San Fernando Rd.  
Glendale, Calif. 91203  
CARBURETOR  
THROTTLE CABLE

Filtron  
P.O. Box 390  
Gardena, Calif. 90247  
AIR CLEANER

Goodyear  
P.O. Box 3339 T.A.  
Los Angeles, Calif. 90051  
TIRES

Graham Sheet Metal  
7325 Greenbush  
North Hollywood, Calif. 91605  
SKID PLATE

Impac  
5704 Bellaire  
Houston, Texas 77036  
HANDLEBAR LEVERS

Inter-Am  
751 Monroe Way  
Placentia, Calif. 92670  
HANDLE BARS

Jardine Headers  
7142 Belgrave  
Garden Grove, Calif. 92641  
EXHAUST PIPES

K&N  
P.O. Box 1329  
Riverside, Calif. 92502  
AIR CLEANERS  
HANDLE BARS

Lectron  
1804 Stephenson Hwy.  
Troy, Mich. 48084  
CARBURETOR

Magura, USA  
P.O. Box 1030  
M.C.I.D. Park  
Lewistown, Pa. 17044  
HANDLEBAR LEVERS  
THROTTLE

Malcolm Smith Racing  
P.O. Box 1086

Riverside, Calif. 92502

CHAIN TENSIONER

MCM Mfg. Co.

601 S. East St.

Anaheim, Calif. 92805

EXHAUST PIPES

Megacycle

90 Mitchell Blvd.

San Rafael, Calif. 94903

CAMS • VALVE SPRINGS

Mikuni American Corp.

8910 Mikuni Ave.

Northridge, Calif. 91324

CARBURETOR

Norris Cams

1711 N. El Camino Real

San Clemente, Calif. 92672

CAMS

Number One Products

4931 N. Encinita Ave.

Temple City, Calif. 91780

FORK KIT

Preston Petty Products

403 N. Main St.

Newberg, Oregon 97132

FENDERS

Pro-Tec

8423 Rosemead

Pico Rivera, Calif. 90660

CAMS

CARBURETOR KITS

EXHAUST PIPES • SKID PLATE

Sig Erson Cams

2025 Brant St.

Long Beach, Calif. 90810

CAMS

Sudco (Mikuni)

1824 E. 22nd St.

Los Angeles, Calif. 90058

CARBURETOR KITS

S&W Engineered Products

12268 Woodruff

Downey, Calif. 90241

FORK KIT • SHOCKS

VALVE SPRINGS

Terry Cable

P.O. Box 1321

Hesperia, Calif. 92345

FORK KIT

Uni-Filter

13522 New Hope St.

Garden Grove, Calif. 92643

AIR CLEANER

VHT-SPEREX

16131 S. Maple

Gardena, Calif. 90248

HIGH TEMPERATURE PAINT

Web Cam

1663 Superior Ave.

Costa Mesa, Calif. 92627

CAMS

Webco, Inc.

P.O. Box 429

Venice, Calif. 90291

CHAIN

SPEEDOMETER KIT (VDO)

THROTTLE CABLE • THROTTLE

White Bros. Cycle Specialties

11611 Salinaz

Garden Grove, Calif. 92643

ALUMINUM SWING ARM

CABLE BRAKE KIT

CHAIN TENSIONER

EXHAUST PIPES

Yamaha Parts Distributors, Inc.

6610 Orangethorpe

Buena Park, Calif. 90620

LUBRICANTS • SKID PLATE



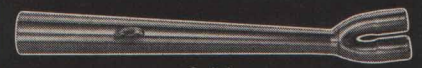
Complete  
systems  
and  
replacement  
mufflers

## THE MCM TRADITION OF EXCELLENCE FOR OVER 35 YEARS

The original Quiet systems ■ Increases power up to 25% ■ Reduces weight ■ No loss of ground clearance ■ Clears kickstand, oil filter & bags ■ Unequaled quality show chrome ■ Custom styling ■ Easy installation ■ Dyno tested ■ 4 into 2 & 4 into 1 systems for Honda, & Kawasaki ■ 2 into 1 systems for Honda, Kawasaki, Yamaha & Triumph ■ Available in chrome or black.

Also:

Quality built replacement mufflers for Honda, Kawasaki & BMW stock systems.



Quiet



Quieter

Quality exhaust systems and replacement mufflers are just a part of the MCM tradition. MCM T-Shirt \$4.25, MCM Sweat Shirt - \$7.95, MCM Cap \$4.95. Send \$1.50 for our complete catalog today.

Manufacturers of quality exhaust systems, components & miscellaneous accessories for over 35 years.



MCM Manufacturing Co.

601 So. East St. ■ Anaheim, CA 92805

Ask for MCM