

A Big Kid's Race ATV

By Chaz Rice

Big Kid/Triumph 450 Ready To Go

Building a project race ATV is always a good idea. It is like one of those huge jig saw puzzles. But instead of rummaging through the pile for the border pieces in your grandma's living room, it is just you, the ATV, the aftermarket parts and a garage.

Better get used to that garage, because it normally takes around 15 hours to build a full-on race ATV. Or, if you are smart you share building duties. That is exactly what Triumph Motorsports of Corona, Calif., and bigkidracing.com did when building this project YFZ450.

These two companies enlisted the help of several aftermarket companies to make the ATV not only look trick, but function well on the track, too. For the chassis components, Metal Craft was called to the table. The California company supplied the A-arms, tierods and steering stem. Metal Craft has been in the market for some time now, and gained a lot of exposure on the national scene when pro motocrosser Kory Ellis ran its components at the GNC Nationals. Rounding out the chassis components is a Herrmann Racing subframe. This is a six-point subframe that replaces the stock cast subframe that doesn't seem to hold up to punishing motocross



as well as a chromoly subframe.

For the engine, Curtis Sparks Racing was called into the mix and modified the YFZ. Inside the engine Sparks increased the displacement

Triumph Motorsports/bigkidracing.com YFZ450



Sponsors: Triumph Motorsports, Big Kid Racing, Herrmann Racing, Quad Tech, X-Factor Motorsports, Metal Craft Racing, Curtis Sparks, Kenda Tires, Cycra, Elka Suspension, Tag Metals, Shock Spotter, Scott USA, Lonestar Racing, H-Bomb Films.

Frame: Metal Craft gusset kit
Subframe: Herrmann Racing

ENGINE

Type: Yamaha YFZ450
Bore & stroke:
Porting: Curtis Sparks Racing 460 National Kit
Piston: 96mm Ultra lite
Valves/cam/springs: Sparks Racing
Carburetor/airbox: Stock w/TMS Easy Push/stock
CDI: Triumph Motorsports Hi-Rev Box
Air filter: Sparks Racing
Exhaust: Sparks Racing Big Core

DRIVE SYSTEM

Clutch basket/plates/springs:

Hinson/stock/stock
Transmission: Stock five-speed
Chain: D.I.D. HD
Sprockets: Rebel Gear
Gearing f/r: 14/38
Clutch lever/cables: TMS Easy Pull
Shifter: Pro Design

FRONT END

A-arms: Metal Craft +2 +1
Spindles: Stock (powdercoated black)
Tie-rods: Metal Craft
Front shocks: Elka Elite long travel
Shock guards: Quad Tech
Steering stem: Metal Craft +1
Steering stabilizer: Denton

REAR END

Swingarm: Stock (powdercoated white)
Rear axle/carrier: Lonestar
Rear shock: Elka Elite
TIRES/WHEELS/HUBS
Tires, front: Kenda Klawns 20x6-10

Tires, rear: Kenda Klawns 18x10.5-8
Wheels, front: Custom Douglas Wheel 10x5
4+1 offset double rolled lip with black Shamrock centers
Wheels, rear: Custom Douglas Wheel 8x8 3+5 offset Bead locks with black Shamrock centers
Hubs f/r: Lonestar (Honda pattern)

BRAKES

Calipers f/r: Stock
Pads: DP Brakes
Rotors f/r: Galfer
Brake pedal: Stock (powdercoated black)
Rear Master Cylinder relocater: Triumph Motorsports
Block off plate: Triumph Motorsports
Brake lines: Triumph Motorsports

DETAILS

Handlebars: Tag Metals T2 (CR HI)
Grips: Tag (Med/Hard)
Handguards: Cycra stealth
Tether kill switch: Pro Design
Nerfs/footpegs/heel guards: X-Factor

Bumper/grab bar: X-Factor
Belly pan: Quad Tech
Fuel tank: Stock
Body plastic: Stock
Front hood: Quad Tech
Light cover: Quad Tech "Bat Wing"
Graphics: White Knuckle
Number plate: Triumph Motorsports
Seat foam: Triumph Motorsports custom seat foam +1 inch higher w/seat cover
Seat cover: Triumph Motorsports
Bike Set-up, Prep, and all Parts were obtained through from Triumph Motorsports.

Contact Info:
Triumph Motorsports
1210 E Sixth St, Suite H
Corona, CA 92879
(866) 207-1447
www.triumphmotorsports.com

with its YFZ460 National Kit. It is close to the same engine Keith Little runs in his motocross bike, with the exception of the displacement. Inside the engine, Curtis Sparks works his magic. Sparks used to race three- and four-wheelers "back in the day" and he has always been known as a four-stroke guru. Also included with the head mods is Sparks' oiling modification, which makes sure there is always an adequate supply of oil on the engine's top end.

To go with the 460 kit, Sparks is developing its own custom-ground camshaft to make even more power.

The Sparks 460 kit includes all the head modifications, a 13:1 JE piston, boring and plating of the stock cylinder, gasket kit, air filter kit, jetting kit and a Dyna CDI box.

Not to be left out of the kit, this ATV also has Sparks' X-6 big core full exhaust to help the powerful engine breathe better. The system weighs in at 6.5 pounds and is much lighter than the stock exhaust. Not to mention it performs much better.



To accent the trick components on the ATV, Quad Tech provided vital detail items like the shock covers, hood, belly pan and its new "Bat Wing" light covers. X-Factor nerfs, bumper and grab bar completed the race machine.

The finished ATV is currently running the ITP Series, Maxxis Series and the Podium Production Series of Lake Elsinore all in Southern California. **ATVS**

THE BEST
APPAREL & ACCESSORIES
OUTLET STORE
IN THE WORLD

- Fantastic prices on discontinued colors, models and sizes.
- Over 10,000 items in store daily.
- Check often - items are changing daily and they are not in our regular catalog.
- Hard Parts, Helmets, Riding Gear, Casual Apparel & Accessories.

OUTLET
DENNIS KIRK
Store

DON'T MISS OUT! **CHECK NOW!**

Visit Us @

www.denniskirkoutlet.com

The Perfect Gift Under \$10!

Yes! Send the person I've named below a full year (10 issues) gift subscription of *ATV Sport* for only \$9.99. That's \$1 an issue - I save 75% off the cover price.

Send Gift to:

Name _____
 Address _____
 City _____ State _____ Zip _____

Send Bill to:

Name _____
 Address _____
 City _____ State _____ Zip _____
 Email _____

X5BVVA

Enter a 1-year subscription for me too at the same low price.
 Payment enclosed / Bill me / Charge my: Visa Mastercard AmEx Discover
 Acct # _____ Exp. Date _____

Signature _____

Clip out & mail to: *ATV Sport*, PO Box 415, Mt Morris IL 61054

18305C



The #1 Sport Quad Magazine!

A gift card in your name will be sent announcing your gift. Please allow 6-8 weeks for delivery of first issue. Orders outside the U.S. add \$10.00 (U.S. Funds only). Savings based on cover price of \$3.99. Offer expires 12/31/05