

# At home on the trail or the dunes

By the staff of DIRT WHEELS

Duncan Racing has made a name for itself as one of the winningest performance companies in ATV racing. It has won races in virtually every type of ATV competition, from motocross to cross-country, flattrack to desert, iceracing to sand drags. With a long list of top ATV pro riders using its products, there is little doubt that Duncan Racing knows the ins and outs of

high performance.

What a lot of riders don't know is that it also makes a wide range of performance modifications to benefit the recreational rider as well as the racer. Loren Duncan, the man behind the company, recently built an all-new modified '97 Yamaha Banshee. He told us that by simply bringing out a change of wheels, tires, skid plates and extra lights, he could convert a full-on dune racina Banshee into a capable track and trail guad. Knowing Loren's welldeserved reputation for ultra-clean and well-thought-out race guads, we jumped at the chance to test this dual-sport quad.

### MOTOR MODS

Duncan offers a wide variety of engine porting, pipe and carb configurations for the Banshee as well as most high-performance sport quads. Depending on what you want to do with your machine, Duncan will set you up with the engine package it feels will work best for you.

✓ Doug Eichner, fresh from victories at Pont De Vaux and the GNC 500 class, puts the Duncan Racing Dual-Sport Banshee through its paces at the dunes.

Economy-minded customers can opt to install one of Duncan's bolt-on engine kits for the Banshee that consists of a Paul Turner midrange or high-rev pipe, Fat Boy aluminum silencers, DR fiber reeds, DR boost bottle. K&N filter and a Jet Pack, all for \$559. Duncan also offers more indepth modifications, one of which is its "National" kit that includes all of the above plus porting and head mods, pre-jetted Keihin 34mm carbs, T-shirt, and technical instructions for installation of the kit for \$1775. A highrev version of the kit uses Keihin 35mm PWK carbs instead of the 34s and includes a DR flywheel modification.

For our test unit we opted for the "National" midrange package with the 34mm Keihin PJ carbs and Paul Turner midrange pipes (with triple chrome plating). For an extra \$75 per pipe, Duncan will triple-chrome a set of new pipes for you; otherwise the pipes are left unpainted. Duncan also sells trick-looking two-piece Cascade exhaust clamps (\$60 per pair) that replace the stock leak-prone rubber units. The Fat-Boy aluminum silencers on our test machine were the new "Quiet" versions Duncan carries (\$179.95 per pair) with downturned stingers and are easily repackable.

We also had a Paul Turner Powerhead installed, which is a replacement cylinder head that increases cooling capacity and offers interchangeable compression domes for altering engine compression on the Banshee. These units sell for \$299 and include everything you need for installation.

A DR Masterflow Intake system

(\$229.95) hooked up the new PJ carbs to the K&N filter and Outerwear cover. DR's new Pyramid reed valves were added to the reed cages (\$189 per pair) to get them up to snuff, and even the cranks were welded and trued to make sure the engine would handle the increased horsepower this kit puts out (\$75-\$100).

To make sure we would not have any problems with night vision, Duncan installed a Safari Light stator rewind (\$90) and DR adjustable timing plate (\$99.95) and flywheel modification to our test machine.

Since this is primarily a motor test, we will get to the evaluation right away. For more details of the various other items that were bolted on our test machine, be sure to check out the spec sheet. For now, let's see how this baby performs under fire.

### TRAIL TESTING

Our first test of the Duncan Racing Dual-Sport Banshee would be on fast fire roads and palm-shaded trails surrounding our secret test area in Southern California. In keeping with the dual-sport nature of this test, we had Duncan bring out a set of front and rear IIP Holeshot tires mounted on Douglas .190 Red Label aluminum rims. For added protection from tree limbs and branches, we installed a set of Acerbis Rally brushguards. A complete set of DR/OMF engine and front skids completed our dual-sport package for the trial.

The combination of the midrange porting, Paul Turner midrange pipes and DR intake system gave the Duncan Dual-Sport Banshee a noticeable hit in the mid to upper power spread.





Duncan Racing has several different engine kits for the Banshee. We wanted a kit that would be good enough for all-around duning but still had decent midrange for trailriding and fast fire-roading.

The motor comes on strong from the middle of the powerband and hits with a strong burst on the top. While not possessing an abundance of torque on the bottom-end, the DR engine had impressive enough power in the midrange to make the transition to the top easy enough for an experienced Banshee rider.

The Roll Design +2" wider and +2" further forward (per side) A-arms (\$725) help smooth out the Banshee's cornering manners and make it a much more stable high-speed machine. We especially liked the larger-capacity IMS gas tank (\$174.99) for extended rides, as it holds up to 5.6 gallons of fuel and keeps the weight low and forward on the machine.

A DR steering damper kit helps keep the rider from having to battle the handlebars constantly flapping about and greatly aids the crosscountry abilities of the machine. An RPM Dominator axle (\$369.95), Millennium rear bearing carrier



IMS makes a handy replacement plastic gas tank for the Banshee that holds 5.6 gallons for long-distance cruising. The Paul Turner midrange Banshee pipes gave the machine a smoother midrange-to-top-end power spread.

## DUNCAN BANSHEE

(\$269.95), anti-fade locknut (\$49.95) and Taper-Loc hubs (\$249.95) are essential to keeping the Banshee's back end alive at the faster pace the DR engine kit maintains. Stock Banshee axles are junk and will bend in severe use.

You would also be wise to replace the stock Banshee shift lever. The DR billet shifter (\$89.95) for the Banshee is a well-made unit that will not snap off and leave you stranded, something that the stocker will eventually do.

With Ohlins shocks up front (\$725) and a PPS revalved shock on the rear, the DR Dual-Sport Banshee suspension was more than up to the task when it came to thrashing around in the rough stuff. From jumps to bumps, whoops and ledges, our modified Banshee was a sweet-handling package. Cascade even came up with a special Dual-



Adding a set of Acerbis Rally hand guards not only jazzes up the look of the DR Banshee, but they also provide more protection from brush and tree limbs.



Paul Turner "Quiet" Fat Boy silencers tone down the decibel level on the Paul Turner midrange pipes by a good 3–4 dB.

We were impressed with the hard-hitting power of the Duncan Racing "National" engine kit for the Banshee. It put out more than enough power to make it competitive in the dirt or the sand worlds.

Sport seat cover for our test machine that had a special gripper material sewn into the center of the seat for extra gripping power in the saddle.

#### SAND SETUP

After putting in our time on the trail, we loaded up our Dual-Sport Banshee and headed off for the dunes to convert it for sand slinging. We removed the Holeshots, the engine skids and Acerbis brushguards and installed a set of Sand Skate Razorbacks up front and Sand Skate I Comp Grooved paddles mounted on Douglas .190 Red Label rims on the back end.

We also hooked up a set of Pro Comp lights to add more wattage for the Safari Stator rewind kit we had installed. Now we were ready for our dune expedition.

Engine-wise, the Duncan Racing Banshee midrange National kit



OMF and Duncan Racing offer excellent engine skid plate protection that has proven itself time and again in the Baja 500 and 1000.



# DUNCAN BANSHEE

came alive in the dunes. While we felt the engine ran well on the hard-pack, it was much more at home in the sand. The strong midrange and top-end hits are more easily absorbed by the sand and the paddles and the power transfers much more smoothly in this environment. While our machine was a compromise between midrange and high-rev performance, it definitely favored the high-end part of the spectrum.

For pure adrenaline-pumping performance, the DR Dual-Sport Banshee engine kit gets our vote of confidence for a kick-in-the seat power package. It has power, speed, handling, good looks and a reputation for reliability. What more could you ask for?

For more information, contact Duncan Racing, 10734 Kenney St., Ste. A, Santee, CA 92071; (619) 258-6306.

■ A DR Master flow intake manifold and boost bottle system combined with DR Pyramid Reeds and Keihin 34mm PJ carbs to give the machine a powerful midrange hit that exploded to a top-end rush that would make any horsepower junkie happy.

### DUNCAN RACING DUAL SPORT '97 BANSHEE

Motor		
Porting "National" midrange		
Pistons Pro-X Ignition/Timing Stock ignition/Safari light		
mod/DR adjustable timing plate		
Sperk plug/gapChampion		
NEYC/.028*		
Reed cage/		
reedsPyramid reed valves		
Crank DR welded and trued		
Head		
(DTD) Domoshood		
Flywheel		
Intake		
Carburetor & mods		
Pl carbs w/DR Superflow mod		
Airbox/filter oilStock girbox, lid off,		
Pro Flow Flange, K&N,		
Outerwears/Maxima Fab 1		
Proe/silencer PTR midrange pipe		
(w/Triple plate chrome)/		
"Quiet" Fat Boy silencers Fuel Trick Racing gas		
Fuel Trick Racing gas		
2-stroke oil/ratio		
Drive System		
Clutch basket/plates/		
springs		
DR-C33 Clutch kit Clutch cover DR quick change		
Clutch cover		
Transmission mods/oil DR trans		
mod/Maxima Endurance		
Chain/lubeRK O-ring, Maxima chain wax		
Gearing F/R15T/40T		
Front End		
A-arms/widthRoll Design +2" Wider, +2"		
Forward (per side)		
SpindlesStock		
Front shocks/wheel		
travelOhlins/9.5*		
Steering stemStock w/DR billet		
handlebar clamp		
Steering stabilizer		
rebuildable steering damper kit		

SPORT 37 B.	AINSHEE	
F. hubs	DR billet aluminum	
	front hubs w/ccos	
Rear End		
Swingarmi	lengthChromoly	
	round housing/stock length	
Rect civilala	vidth/carrier RPM	
near day	Domingtor/49"/RPM Millennium	
Rear shock	wheel travel Stock	
The state of the s	revalved by PPS/8.5"	
B sprocket	hub RPM	
	t RPM	
	RPM Taper Lock	
Brakes		
Colliner FIR	Stock	
	F&R Broking	
	F&R Braking	
	DR Pro series steel-braided lines	
	Maxima Hi Temp 550	
	Handlebars/Controls	
	Renthal	
Handagan	is Acerbis Rally	
Throttle	Motion Pro CR	
	r	
Cablas	Motion Pro, Terminator clutch	
	Scott	
Tother bill o	witchPro Design	
POLISIA KILL D	Miscellaneous	
Front hume	per/grab barDR chrome F.	
h	umper/DR aluminum R. arab bar	
	OMF	
	Cascade	
	IMS 5.6 gal.	
	DR billet aluminum	
	al setupsCascade Stator cover,	
Oures apec.	W/P Cover, Dip Stick, R. Master	
en)	inder cover, brake block off plate,	
2	chrome plating by Duncan	
	Racing, front A-arms, tie rods.	
	rear swingarm, pipes,	
	end caps, footpegs, R, brake	
	pedal, kickstarter, motor mounts	
	and bolts, new Duncan	
	Racina chrome fender decals	
	reaching emotive render deceis	

