razorbacks, carving bowls or hill your machine in the sand is in any recipe for fun However if you do anything other than drag race, reliaanything oulher than a ragain ingredibility should also you break down miles from your camp spot or any other human who can tow you, pushing your machine back is not an option. In fact, even walking long distances through the dunes is next to impossible. Duncan Racing headed up this project. They built the sand shredder alongside the ultimate 700 XX trail 2010 issue. Speaking of reliability Duncan has years of experience building solid motors for endurance racing in the desert from Southern California and Baja to the tough endurance test known as Ponte de Faux in France. Duncan engines have won them all.
For this Honda, Duncan installed one of their Stage One engine Kits. To
start, they wanted to feed more air start, they wanted to feed more air
into the stock combustion camber. To do this, the Duncan guys started the power upgrades by installing a Pro Design Pro Flow cir filter (\$139). Pro Design also supplied a kill switch for the project. For fuel control, they went with a Vortex ignition/fuel controller ( $\$ 800$ ). The Vortex system can accommodate an optional dual-mode loggle switch (\$50) that you can change
on the fly depending on what kind of

## PROJECT 700XX

pre-programmed setting you want This is a perfect feature for dune riding. You can have a mellow power output winh one setting for just explive setting for shooting walls of roost or racing up hills. Choose your poison. On the ECU controller itself, you can turn one ten-place dial for different ignition maps and three (low, mid, top) dials to add or reduce the amount of fuel flow required for a certain need. On the exhaust side of the engine,
Duncan chose to install their signaDuncan chose to install their signa-
ture Fat Boy system. The complete ture Fat Boy system. The complete
stainless steel head pipe and aluminum muffler fits nicely and has a minum mufler fits nicely and has a dune applications, the Fat Boy muffler was run with no sound restrictions or spark arrestor. This system can be run and performs well without the ECU also.
Pieces from the Duncan catalog were found from head to toe on this
duner. A chrome $\$ 179$ bumper duner. A hestaced the stock and a billet alureplaced the stocker, and a $(\$ 15)$ sealed
minum DR block-off plate up the rear caliper after the parking brake was remov CHASSIS CHANGES In stock trim, the Honda 700XX has a lot of body roll for a sport quad. Under acceleration, this sensation causes the front end to push and not steer too precisely. It's one of this big-
bore Honda's biggest handicaps bore Honda's biggest handicaps. partner Roll Design to build the first set of front A-arms for the fully inde-

huges so the dune areas we ride in are good time and enough gas to have a must. The 4.8 -gallon IMS tank can handle the task
The Honda 700XX is not a great jumper due to its weight, but with the right can be a blast in the dunes. $\boldsymbol{\gamma}$


Out back, MTA wheel spacers provided
a 2-inch width extension on each side. This allowed Duncan to install 10-inch
DWT wheels instead of using the stock DWT wheels instead of using the stock
11-inch wheels, which no one sells pad 11-inch whee
die tires for.

## CONTACT LIST Duncan Racing  Roll Design .......................70) 771.-5920. Elka Suspension........................ldesign_com www.elkaspension.com  <br> $\qquad$ <br> $\qquad$ <br> OMF ....................................i) 354--8272 <br> MTA.........................www.mta-la.com <br> Www.pwr-performance.com <br>  <br> Renthal..............................(877) 736-8425 <br> AC Racing .......................744) 808 - 8 <br> www.acracing.com Power Madd .................... 800 ) 435 -6881 www.powermadd.com <br> Quad Tech ......................(949) 859-7823 Works Connection ............(530) 642 -9488 Motion Pro ......................(650) 594.9600 $\quad$ wwwotionpro.com

Light up the night: Duncan also built
Light up the night: Duncan also built
us the ultimate trail 700 XX we featured in the April 2010 issue. It had an amazing set of Ricky Stator lights on a custom mount that holds a hug
GPS unit on the back side.

## 700XX

pendent-suspended sport quad. Since that time, other companies like Houser Racing have built suspension components for the 700XX.
This project was outfitted with upper and lower A-arms in the front only at $\$ 1599$. The arms' main job was to dial in the steering geometry, add wheel travel and widen the machine a full 4 inches. Since this was a dune machine, we opted to pay an additional \$250 and ordered the A-arms with a cool chrome finish. Out back, With a wheel spacers (\$179) were used MAA wheel spacers (\$179) were used
to get the extra 4 inches of width and to get the extra 4 inches of wi
helped keep the costs down.
All four A-arms were outfitted with Elka's latest dune edition fully Elka's latest dune edition fully
adjustable shocks. Wheel travel adjustable shocks. Wheel travel numbers were increased out back. The es in the front and 10.5 out back. The
stock wheel travel numbers are 10.5 stock wheel travel numbers are 10.5
inches and 9.9 inches, respectively. inches and 9.9 inches, respectively.
The Elka shocks retail for $\$ 1670$ per pair.
All this suspension and the abovementioned power upgrades would get you nowhere without the proper tires. ITP supplied a set of 22 -inch Sand Star paddles mounted on 10 -
inch (front, $\$ 67$ each) and $22 \times 10$-inch (rear, $\$ 89$ each) DWT wheels with OMF beadlock wheels. The front wheels sell for $\$ 230$ each, and the rears are $\$ 20$ more. In case you are wondering, widening the quad with wheel spacers in the rear allowed the wheel the 10 -inch instead of the stock 11 -inch size.

## MORE FEATURES

 Further enhancements in controlwere made by installing huge, were made by installing huge,
IMS/Roll footpegs (\$199) and heel IMS/Roll footpegs (\$199) and heel
guards (\$199). More rider control was guards ( $\$ 199$ ). More rider control was
supplied by a set of $\$ 95$ Renthal hansupplied by a set of $\$ 95$ Renthal han-
dlebars mounted on a Roll Design dlebars mounted on a Roll Design
$\$ 329$ steering stem using a GPR bar $\$ 329$ steering
mount (\$85).
mount (\$85)
Under the rider, a soft QuadTech seat cover ( $\$ 125$ ) was stapled on to help extend daylong rides. Those rides would not be long without extra fuel on board. For this project, Duncan used a huge 4.8-gallon IMS gas tank at $\$ 279$. This extended the range over the stock 3 -gallon tank by more than 50 percent.

While we didn't have them on this machine, the trail 700XX Duncan built for us featured a huge set of Ricky Stator headlights mounted in a custom frame that also held a giant Lowrance GPS system. Both products extend rides and allow you to ride

## 700XX

safely into the dark and help you find your way back home.
Enough of the details and prices; you probably want to know how the modified 700XX performed in our sandbox. We took several trips on the sandbox. We took several trips on the
Duncan Project machine to different dune areas, and even put stock tires dune areas, and even put
on it and rode it in the dirt.
on it and rode it in the dirt. The Honda is now ultra-wide and
very stable. Elka's Dune Series very stable. Elka's Dune Series shocks provide a supple ride over the choppy sand you find at busy dune areas full of tire tracks. The quad feels like it is floating, and you can't feel the bumps that you see passing underneath the tires. The QuadTech seat provides extra comfort when sitting down or jockeying from side-to-side on the machine. It's not a flashy cover like you sometimes see in the dunes; it's more function than flash.
You could really tell the motor was opened up and tuned for optimum performance. It has a throaty intake and crisp bark coming out of the rear end. The Duncan Honda could spin the ITP paddles like a 450 on an MX


## 700 XX

track. We had a blast ripping around the dunes, carving bowls and even launching the big-bore in the air.
Power was spot-on, and we loved how much torque the big machine had. Plus, we never had to rev it ou had. Plus, we never had to rev it out
to make it to the top of the dunes. There is a huge, steep hill at the front of Dumount, and this Honda could power up it without missing a bea with plenty of power to spare. In the lirt the Ry correction to how the stock machine pushes. You could carve tight trails quickly and precisely. It wasn't as good as a 450, but it was better than on any other $\operatorname{IRS}$ quad we have ridden.
The first time we rode a 700XX in the sand we didn't think we would be back. With the Duncan exhaust and intake upgrades this machine had, we are glad we did. We could lug the big black machine around the dunes all day with way more comfort than a straight axle machine or carve the dunes well and keep right up with any 450 around. Contact Duncan Racing at (866) 379-7223 or online at www.duncanracing.com. -

## 700XX

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## SANDBOX

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## LeT' THE PROPBSSIONALS hindide IT'

With Today's modern ATV 4-Stroke engines, making additional Horsepower is no easy task. This makes it critical that Engine Tuners have the Experience, Knowledge and Equipment to do the job properly. Duncan Racing has been doing the job properly for 32 years.

- In-House Cylinder Head Porting (by Master Technician) - Precision Valve Seat Machining and Reconfiguration
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- HD Valve
Retainers
- Oversized
Valve Kits
- Customers Can Send In
Their Heads for Modification
or DRI Carries New OEM Heads $5+$
Hil GAIN

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