

MOTOR CYCLE NEWS www.motorcyclenews.com JANUARY 10 2001 £1.40

French superbike spied in action

PAGE 2

Harley with a Porsche engine PAGE 4

One mile... In 18 seconds

IT'S POLITICALLY INCORRECT TO SAY WHAT THIS TUNED ZX-12 DOES IN MPH: P18

PLUS...

Now Vincent's in 500 GPs too: p30

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ROAD TEST

CYLINDER HEAD SHOP KAWASAKI ZX-12R 95%

There's fast. And there's 201mph fast

It's fine on twisty roads, but when you have a version of Kawasaki's ballistic ZX-12R tuned for even more top-end power, it's time to look for somewhere very long and very straight...

No, I'm on my way to Bruntingthorpe Proving Ground in Leicestershire, feats in the past and the location, I hope, of one of

most people were thinking abilities on real roads and on the rough Tarmac. them as possible, all I had on my mind was the prospect of seeing the magical two-zero-zero on the speedo of the 196bh tuned Kawasaki ZX-12R I'm now sitting on.

Now the moment has almost arrived, and I can't wait. But it almost didn't appen. Heavy snowfall over Christmas meant I looked destined to stay at

out of the window while I counter needle flickers at polished off the last of the tick-over and I blip the turkey sandwiches, rather than blasting down an deep note of the exhaust.

the air is bitterly cold, I there, like Suzuki's can tuck myself in behind the bulbous, aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's can tuck myself in behind the bulbous, aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the bulbous, aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the bulbous, aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the bulbous, aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the bulbous aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the bulbous aerodynamic super Blackbird, which will fool you into thinking the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there, like Suzuki's the counter needle flickers at the air is bitterly cold, I there is believed to the cold flickers at the air is b

Shop, who had spent many Dayglo bib. He looks have been equally gutted. But today, as the snow melts away in the winter sunshine, it looks like the omens are all on our side. On the ride to

Bruntingthorpe, I get a myself with the ZX-12's speeds than I'm planning later. As I wait for the green light, the rev



shifts, mate." He's right,

I pull away from him as the lights turn green. Even This Kawasaki is just as at normal road speeds, immense power has the concentrated on extracting going faster, the reading wheel slipping and sliding maximum power from the starts to diverge from the

gures with no hiccups.

gained an extra 31bhp over I'm about to find out sane speeds the motor just Sure, there are a few

A courier pulls up next to almost chill-free.

me at the front of the Cosy inside the b I wasn't the only one who out workhorse creaks to a of the fast-drying roads, such speeds on ordinary roads clogged with traffic and forested with Gatsos.

But as I sit waiting for the lights to change on this cold December marring.

Such speeds on ordinary would have been halt, its engine rattling passing car after car. Their politician, speedos don't disappointed, either. Alex away still on full choke. Its drivers and passengers always tell the truth.

It's a well-documented graphics displayed on the fact that modern units are tuners Cylinder Head as its rider, with his greasy blue fairing panels.

Short who had a part was a speed of the car after car. Their politician, speedos don't drivers and passengers always tell the truth.

It's a well-documented graphics displayed on the fact that modern units are blue fairing panels.

> you know - it does. But it's with a certain

the bike is more civilised nature well alone. than you'd think. You don't Outwardly, only the need to venture above 5000rpm to keep this

The LED figures say it all purrs along, and though production bikes out

deep note of the exhaust. fairing and ride along will fool you into thinking A courier pulls up next to almost chill-free. you're hurtling along at me at the front of the Cosy inside the bubble of queue of traffic. His worn- warm air, I take advantage flashing it up on the

fact that modern units are and propel yourself to

But to get that mystical
200 displayed on the
finely-tuned test
equipment's LED panel
takes a very special
motorcycle indeed.

Straight, a small ground and ready
of a 2.2-mile-long
deserted runway on dark winter's morning
fuelled up and ready
At the far end of the
straight, a small ground.

GUN - OR SO I LIKE TO THINK?

comfortable as the stock such as 30mph and bike. The tuners engine, but sensibly they bike's true speed and

lightweight Akrapovic four-into-one exhaust system and new paint make this ZX-12R stand out from the crowd. But 165bhp at the rear wheel, as I pull into the gates of it's not a total animal. At Bruntingthorpe. 70mph. When the bike is technique, track and showing 200mph, it could the chassis and engine

To do a genuine 200mph, you have to employ the services of experts. They use state-of- that grunt reliably. the-art timing equipment allowing the rider to aim behind the bodywork it's a which has to be annually the bullet straight towards throttle, very different story - and calibrated and certificated the timing lights. e stock bike's "meagre" exactly what it's capable of laboratories. That's exactly more than any other what we've done, so we now have a sure-fire double-ton figure.

But at 200mph, factors like aerodynamics, riding crucial on page 14). The combination - it doesn't matter if a bike kicks out 250bhp or 450bhp, it

in specially designated test I reckon the ZX-12R, "ordinary" motorcycle, is method of recording that extraordinary. Which is why I'm sitting at the start back, the rear

deserted runway on this dark winter's morning,

After a quick glance at

high-speed run. I watch

the rev counter sweep

gathered. They've already watched me do several timekeeper checking and double-checking his fact that modern units are and propel yourself to equipment with its set of calibrated to be accurate warp speed by brute force. multiple red digital

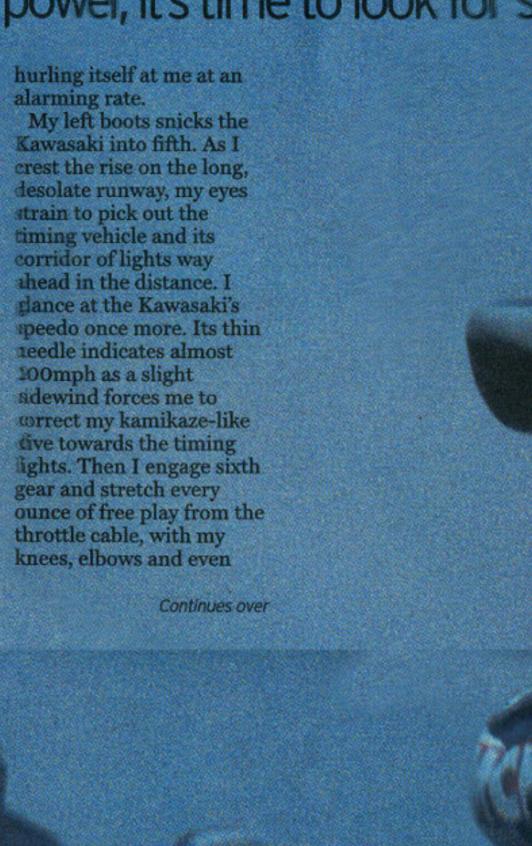
> Now, though, I can't see me. But I can imagine cold into treble figures - I start dive towards the timing ears straining as they listen for the sound of a motorcycle and their eyes towards its red line and peering into the gloom for click gear after gear, their first glimpse of me.

I check my helmet strap December wind, which is and click down my visor, then snick the gear lever down into first. My eyes Kawasaki's dash like Tom Cruise in Top Gun - or so I like to think. Then I rev the engine, pull away from must be able to deliver all the leaf-strewn start pad

As I hook second gear and start to wind the throttle

heel breaks traction on hurling itself at me at an e power, letting the tyre My left boots snicks the

fuelled up and ready to go. hook up again and propel Kawasaki into fifth. As I At the far end of the me forward. crest the rise on the long, crest the rise on the long, glance at the Kawasaki's ious? Oh yes. This sort speedo once more. Its thin 200mph as a slight lights. Then I engage sixth gear and stretch every







JIM YEARDLY PICTURES BY HOWARD BOYLAN

ROAD TEST

Another run gives us an immediate speed through



■ No traffic, no Gatsos, no junctions - just a long, wide stretch of concrete and an appointment with the timing lights

WHY WE CHOSE BRUNTINGTHORPE Return section Timing lights 2.2-mile straigh

BRUNTINGTHORPE is an ideal set-up for the rigours of high-speed testing. The long 2.2-mile front straight means you can get flat-out on the first quarter-mile of the run and can then concentrate on tucking in elbows and knees essential when you're looking for every mile per hour as you head

towards the timing lights. The wide runway also gives you plenty of margin for error - even if you wander off course you should stay on the Tarmac. After you've completed your run and slowed down to sane speeds in the braking zone, you can ride back around to the start of the runway via the long

return section, which allows the Dike's engine to cool and lets you check dash readouts.

If you fancy riding your own bike around the airfield circuit, Bruntingthorpe is planning its own track days with a timing crew. Dates and prices have yet to be finalised. Details: 0116-247-8030.

toes tucked into the bike's With less than a few

hundred feet to travel to the lights I make tiny final adjustments to make sure break the invisible light beams as cleanly as possible. Then, in an instant, the parked-up vehicles, speed lights and the gathered spectators flash past and hurtle into the distance behind me

I hold the power on for a

second longer, which is all

tuned ZX-12R in the I dare, as I'm fast running out of straight. Then I roll country. But first we have the small job of blasting it the throttle shut and start to squeeze the brake lever, through the timing lights forcing the twin front calipers to bite on the discs. One finger is quite with the next effort, ever though Smith has the enough, as in these rainsoaked conditions slowing throttle butterflies hard the ZX-12R down after its against their stops and manic charge needs to be done as smoothly, carefully second set of timing bean placed almost in the and progressively as possible. With enough speed scrubbed off, I start

to turn the Kawasaki and

head back up the runway

Flicking down the stand

and clambering off, I try to

look nonchalant, but I can't

wait to see the readout

from the timing clocks -

and I'm disappointed at

"just" 190mph. Run after

numbers, but to no avail.

It's becoming clear the

ZX-12R's stock gearing is

end of every run the bike is

shooting through the lights

flat-out with the revs in the

red zone. There's nothing

220mph, but the engine is

So it's out with the rear

stock rear sprocket. A fresh

rear with two teeth less is

bolted on. We reckon it

should give us 203mph. The wheel is slotted back

in and the chain adjusters

clearly well up for more.

wheel and off with the

more to come from the

speedo, as it's showing

holding us back. By the

driving hard in sixth.

gun Kev Smith try to

improve the bike's

run, myself and MCN hired

to the timing vehicles.

high-speed braking zone Back at the van we discuss tactics and decide to remove the ZX-12R's huge, though supposedly aerodynamic, mirrors.

Every ounce counts and

the weight saving could

problem - we don't have

an Allen key in the van.

Then someone suggests

using the bike's tool kit -

like it's still going to be

But, amazingly, this bike

is still set up so stock that

under the rear seat hump

unscrewed and dumped on

A quick final check, then

it's back around the return

loop and on to the straight

done it. The displays tell us

that the Kawasaki entered

travelling at 198mph. A

quarter-of-a-mile later, it

This ZX-12R may be designed to go very fast in a straight line, but it does real roads as well

the first set of beams

just where it should be.

the tool kit is nestling

under the seat ...

The mirrors are

unceremoniously

the floor of the van.

desperately need. There's one small

give us the extra 4mph we

carefully set. A hurried

the bike's high-speed

handling and ruin a

mistake here could upset

ballistic run for the traps

then double-checked. Oh

and then we check again

Another run gives us an

immediate speed through

the traps of 196mph. We

can feel in our bones that

our target is in reach, and

we can't help chattering

like chimps at a tea party.

We're sure the next run

going to make the Cylinder

Head Shop bike the fastes

We're still 4mph short

charges through the

at 200mph.

DONE IT. THAT'S 201MPH7

The ZX-12R is checked

flashed through the second set at 201mph.

It takes us a few seconds to get our heads around it, then we whoop and jump around, celebrating our achievement in a very un-English fashion. We could carry on, but it's unlikely we'll see more

than another 2mph added to that top speed, so we decide to call it a day. We put the ZX-12R back in the MCN van and leave the test track with an intact bike and the glory of a 201mph run - which is good enough for us.

On the way back to the

office I give Cylinder Head

Shop owner Paterson a call to tell him the good news. Unsurprisingly, he's pretty chuffed about it. After all the worries with the weather, he's getting his project bike back in one piece, together with a 201mph timing ticket and a quarter-mile slip showing a stunning 9.8 second run at 151mph.

So what is the bike's secret? Nitrous? A turbocharger? No. The bike was built to prove a

point - you don't need

engine's performance.

manager Collyer have

improving flow rates,

fitting larger valves and

and angles, and they've

learned a few tricks.

carry out as few

modifying cylinder heads,

even re-shaping valve ports

They bought a Kawasaki ZX-12R and decided to

modifications as possible

to give the biggest power

Kawasaki must maintain

capabilities. It must still

tick over at the lights and

must still ride exactly like

The engine was stripped

it did on the day it came

to check tolerances and

out of the showroom.

increase they could, but

they also set out a few

ground rules. The

its user-friendly

years of experience

unsubtle add-ons like that

to significantly improve an

Paterson and engine shop

the traps of 196mph

valves and camshafts modified. The firm used a £40,000 computer-controlled, multi-angled valve seat cutter to set about re-shaping and gas-flowing the stock cylinder head. The reshaped head was then treated to a set of Nucleus inlet and exhaust valves and guides, which were then bench-tested for

optimum performance Hours were spent treating the cylinder head to a special high-flow valve seat cutting procedure and massive inlet and exhaust

made. The stock camshafts were reprofiled and a set of special slotted cam wheels were installed to enable various different cam timing configurations to be tested. Piston crowns and deck heights were checked to ensure optimum valve clearances, all in the never-ending chase for

With engine work completed, the bike was reassembled and a lightweight Akrapovic exhaust system bolted on to vent the spent gases

WHAT IT COSTS This is what you would pay to have your own ZX-12R

tweaked (fitting costs not included)	
Cylinder head work	£1400
Reprofiled camshafts	£235
Akrapovic exhaust	£680
Dynojet Power Commander	£295
Vernier slotted cam wheels	£140
Gasket set	£80
Total	£2830

KAWASAKI ZX-12R

was a new pipe, some clever cylinder head work more efficiently. In less than a month the duo had the modified bike running and a bit of trickery with but were then faced with a the electronic ignition and different problem - the fuelling systems. new top end now flowed s Fancy owning a bike with a proven top speed of more much more gas, it would not run properly with the

than 200mph? Cylinder stock electronic fuel Head Shop is working on a new project bike for 2001, injection system. Doh! After hours of phone calls, the Kawasaki was so this very ZX-12R is on sale for just £10,000. If you're interested, call the sent off to the workshops of dyno specialist Ryno firm on: 0208-946-2434. Dyno for final tuning and Alternatively, if you have a ZX12-R and a few grand test runs on its rolling spare, you can get them to road. After several hours of work their magic on your own bike (see box). tweaking, the bike was the proud owner of a Dynojet Power. Commander and

THE FACTS re-programmed chip to suit the new engine's fuel CYLINDER HEAD SHOP **KAWASAKI ZX-12R** and ignition requirement and a shakedown on the roads to prove driveability

Cylinder Head Shop:

tweaks, the final dyno Metallic blue reading of 196bhp at 10,500 rpm was reached Group 17 (applications will be assessed individually) That's an increase of more than 30bhp over the stock ZX-12R - and all it took

After more dyno runs

and reliability, the ZX-12R

With some more slight

was returned to Ryno

Dyno for final tweaks.

ngine: Liquid-cooled, 1199cc (83mm) 4mm) 16v dohc four-stroke in-line orks, adjustments for pre-load, ear suspension: Single shock with sing-rate linkage, adjustments for re-load, compression and rebound Tyres: Dunlop D207; 120/70 x 17 front. Brakes: Tokico; 2 x 320mm front discs

with 6-piston calipers, 230mm rear dis

PERFORMANCE

with 2-piston caliper

200					5			Z	
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9.8s, 151mph op speed

23.5°, 9.3cm, 144cm Fuel consumption verage mpg, tank capacity, range 86mpg, 20 litres, 160 miles ombined cost of 13 standard item

Running costs Depreciation + £1000 + n/a + £200 + £1300 TOTAL: £2500 (minus insurance) Based on 1 yr, 5000 miles, 32-yr-old, no recent convs/claims, urban, Comp)

OUR VERDICT

7% Puts an Exocet to shame Not quite an R1 Er, slows from 201mph 6 You could tour on it

Grin factor

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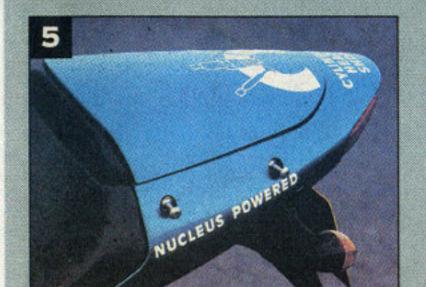
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5 The aerodynamic seat hump plays a big part in smoothing out the windflow



cruise missile-type speeds as well as cover long distances in comfort. But the boys at Cylinder Head Shop reckoned they could give it even more poke with a few tweaks to the motor. They were right

2 The speedo may be capable of displaying well over 200mph, but that's not just what this bike is about. The cockpit is designed for comfort and the screen is highly effective at keeping windblast off

3 Ram-air can boost performance by around 10 per cent at high speeds

4 Aftermarket exhausts are supposed to look good, save weight and increase power. This Akrapovic race pipe could have been painted pea-green with yellow polka dots for all the bike's tuners cared - as long as it delivered the performance they needed