

THE COMPLETE SPORTS MOTORCYCLE

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RD350 LC

The All New Yamaha **RD350 LC**

The Little Giant Killer Gets Better As you can see on our front cover

the RD350 has been improved and restyled considerably into one of the best-looking little powerhouses around. The words "total" and "complete" are used extensively in Yamaha's enthusiastic description of

tory learns to produce a machine like this," says Yamaha, "On the race track where total performance theories are put to the ultimate practical test. Yamaha have had more years in Grand Prix racing than any other modern

manufacturer - and it shows in this The new RD350 LC is the road-going result of twenty years developing machines for the racetrack and it

employs much racing technology. fication is the adoption, again from the racing department, of the Yamaha Power Valve System for the first time on any street machine. Operated electronically via a microcomputer, the Power Valve changes the timing of the speed. Thus the engine delivers power like a trials bike at low revs and like a racer at high revs

The chassis and styling of the 1983 RD350 LC is completely new, with nothing retained from the 1982 version. wide-spaced frame tubes and is rigidlytriangulated. Rear suspension is also taken from the GP machines: a rising rate progressive monoshock with the single suspension unit mounted behind the engine unit to keep centre of gravity low for better handling and

Short front forks have increased Italic wheels are of a new, triple-spoke

"The result of all the modifications "Is that the 1983 Yamaha RD350LC is faster, has more acceleration, better striking styling than its predecessors."



ENGINE This 1983 version has a 6-speed

transmission. liquid-cooling and a number of power boosting items. The Yamaha Power Valve System (YPVS) Basically, advancing the exhaust

port timing gives more power to a 2-stroke at high rpm and retarding it will spread the power across the low speed and mid-ranges to obtain good ed by the height of the port and YPVS varies this height to suit the power by the actual port height as cast into

Yamaha's Power Valve is a cylin-

the exhaust port, with a cutaway to match port dimensions. At high rpm. the cutaway and port blend together to form the largest possible exhaust revolves so that it blocks off part of the of the exhaust opening is lowered so A microcomputer is linked to elec-

tronic sensors which monitor engine ly operates the valve, rotating it to achieve the best possible exhaust port A novel feature of the RD350 LC YPVS operation is that as soon as the ignition is switched on - and before

the engine is started - the valve **BIG BORE**

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OUR TYRE DEPARTMENT IS OPEN ON SATURDAY MORNINGS •------ rotates to clean itself of any carbon Electronic controls also play a part the mid-range pulling power and

Another measure which gives the RD350 LC fuel efficienc# in addition to



ows the machine to idle evenly on The liquid-cooling system has been

the increased power output of the new

aluminium means that the unit could tects the radiator and a newly-



The cooling system is 'sealed' in when the engine is running, instead of

The screw-type clutch operation has now been replaced by the TZ racingcable-operated lever. This gives a straight push to part the clutch plates,

The link between the RD350LC and confirmed with the triangulated



mounting to reduce vibration. The mounting and is anchored by a rubber harmonize with the vibration of the

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through to the rider. Suspension is by rising rate monocentre of gravity. This rising rate the least loading on the suspension.

use and semi-metallic pads eliminate

The cast alloy wheels are of new con-

clude an aircraft styled instrument

gauge. Fuel is switched on by a rotary tap blended into the sid panels, as is the helmet holder and chrome grab bar. Footrests are mounted on polished drilled - allow plates, swept up at the rear to protect the passenger's foot from the rear

The sporty head fairing and eng to hinge forward for

"The final touch," says Yamaha, "Isthe racy steering head fairing and

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styling and have the practical advan-