## SPRINT OVERSOUARE 250

The fastest 250cc motorcycle in the world, the Sprint streamliner, was powered to that title by a new 1966 Harley–Davidson engine. This oversquare 250—so called because the bore (dia.) of the cylinder is greater than the stroke (distance the piston travels)—produces 35 horse-power at 10,000 RPM.

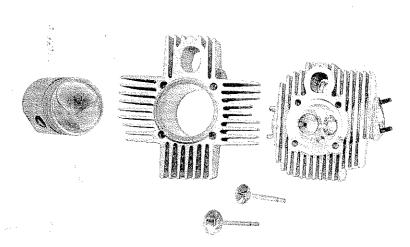
Compression ratio is an amazing 12 to 1. Overall gear ratio stands at 4.33 to 1 and the primary drive ratio is 2.09 to 1. The bore measures out to 72 millimeters and stroke is 61 millimeters.

millimeters.

The oversquare design of the Sprint engine enables it to reach higher RPM's. Though the engine is ordinarily red-lined at 10,000 RPM, Roeder revved the quick engine up to 10,400 during the run with no damage to the engine

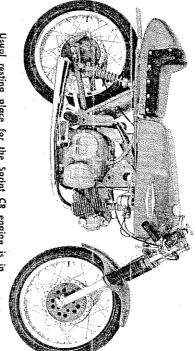
components.

A new heavy duty dry clutch handled all the torque the high geared Sprint could put out. A 30 millimeter Del Orto carburetor completed the power plant. The very same 1966 250cc CR engines are available through any Harley-Davidson dealer across the country. No special request is necessary and anyone can order one.

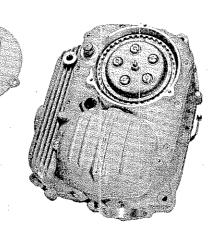


Exploded shot of Sprint oversquare cylinder, head and piston assembly.

New, tough dry clutch handled 35 horse-power from fast revving Sprint engine.



al resting place for the Sprint CR engine is frame of this wicked looking 1966 CR-TT.



Below is a complete technical breakdown of the engine for those of you who want more information.

## SPRING SC-250

Horsepower
Horsepower
Compression Ratio
Intake valve diameter
Exhaust valve diameter
Valve lift—intake
Valve lift—exhaust Displacement

Cams Tappets Valve timing-intake Pushrods

Valve springs Valve spring pressure

—open —closed Ignition system Carburetor venturi diameter

15.028 cu. in.
246.3 cc
72 millimeters
61 millimeters
35 @ 10.000 rpm
12 to 1
1.535 inch
1.299 inch
375 inch
375 inch
Type "H"
Tubular steel, flat
Chrome faces
Tubular aluminum tips.
Opens 73 degrees BTC
Closes 92 degrees ABC
Opens 105 degrees BBC
Closes 55 degrees ATC coil type

175 lbs. 90 lbs. Magneto (%-speed) 1.18 inch (30 mm)

Cylinder head material Cylinder material

Exhaust pipe Piston

Clutch
Flywheels
Main bearings
Crankpin diameter
Connecting rod Piston clearance Piston pin type

Connection rod rollers
Rod roller retainers
Cam bearings
Oiling system
Oil pump
Primary drive

Aluminum alloy with iron alloy sleeve.
Aluminum alloy with bronze alloy seats.
1.50 i.d.—32" long Forged aluminum alloy, cam ground solid skirt .004 inch Floating, with lock Special Goodyear record tires—3.50 x 19, front and rear, 50 lbs of air in each tire. section
250 inch diameter
Aluminum alloy
Ball and needle
Dry sump
Cear type Floating, with lock rings in the piston Dry—five plates Forged steel Ball 1.25 inch is inch rged steel, I beam