

CR: work sheet for Rppjr FL 400

USE: MM

mm to inch 0.03937 Example: 80 mm x .03937 = 3.1496 inches  
inch to mm 25.400051 3.1496 inches x 25.40005 = 79.99999748 mm

Piston

Wiesco

Bore

MM

81.5

Enter Value

Stroke

MM

79

Enter Value

Rod length

MM

144.00

Enter Value

Total head CC'S

CC

43

Enter Value

Head gasket internal dia.

MM

81.15

Enter Value

Head gasket thickness

MM

0.73

Enter Value

Deck

MM

0.28

Enter value

Piston Dome volume

CC

16.00

Enter Value

Top of Transfer port to top of cylinder

MM

62.33

Enter Value

Top of exhaust port to top of cylinder

Effective stroke

MM

39.42

Enter Value

Squish Clearance

1.01

MM

0.0398

inches

Gasket ID (mm)	Thickness (mm)	Gasket CC'S
81.15	0.73	3.775642

Calculator:	Enter value	SUM=
Enter: mm	1.01	0.0397637 inches
Enter: inch	1.541	39.14147828 mm

Bore (mm)	Stroke (mm)	Displacement CC'S
81.50	79.00	412.129029

Exhaust port opens at 82 degrees  
Exhaust closes at 262 degrees  
Transfer ports open at 118 degrees

Transfer ports close at 248 degrees

Cylinder Dia (mm)	Bore	Piston edge to top of cylinder	Deck CC'S
81.50		0.28	1.460710

"H" measured corrected head volume 34 cc  
Corrected head volume 32.236352 cc

Corrected CR7.3793

AT

81.6098

degrees

35.8617

degrees

196.7803

degrees

49.1951

degrees

Blow down

Ex duration

AAML

One can change to alter and or restore CR  
Effective stroke #Top of exhaust port to top of cylinder  
Head gasket #'sThickness of crushed gasket and ID ( bore) of the gasket  
Head cc'sTotal cc's using a measuring method

Pie3.141592 Fixed

Bore

81.5

Variable

Deck to Ex open

39.42

Variable

4000

4000

Fixed

Rod length

144.00

Fixed

Deck Height

0.28

In MM

Head volume

32.236352

Variable

Corrected Effictive Stroke

39.1400

For degrees

Stroke

79

Fixed

Corrected Transfer Open

62.05

For degrees

Effecty Corr stroke	39.1400	81.6098	degrees
Degrees ATDC	82.0000	39.6971	mm
Transfer open	62.05	117.4715	degrees

Transfer open at	117.4715	degrees
Ex opens at	81.6098	degrees
Blown Down degrees	35.861686	degrees