Metric Mechanic **BMW 2 LITER RACE ENGINE**

(GT-3 Racing)

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1

BMW 2 Liter Race Engine

Horsepower... 228 HP @ 7750 rpm Torque... 155 ft. lbs. @ 5000 rpm

> Bore ... 90mm Stroke ... 80mm

Compression Ratio ... 14.0:1

Carbs... 50 DCOE Weber Intake ... MM Pulse Chamber Intake Manifold (23 ft. lb. of Torque gain at 5000 rpm over conventional

manifolds

Exhaust ... MM Pulse Chamber Exhaust Header (worth 25 HP and 1500 Extra rpm over conventional 4 to 1 Header

2

Intake Side View



3

Block

Block... 318i Ribbed Block (18 lbs. lighter than a 2002 block)

Crank ... 2 Liter 80mm stroke Rod Length ... 145mm long, 10mm longer than stock

Rod Weight... 500 gram billet

... 600 gram forged

... stock in 710 grams

Rod Ratio ... 1.81

Piston... High Compression Slipper Skirt Forged Alusil Piston with Surface Turbulenced Dome (concentric grooves)



4

Piston - Continued

Compression Ratio ... 14.0:1

Weight... 360 Grams Weight... 360 grams

Wrist Pins... 118 grams - 90 grams

Rings... Top, 1.5mm Moly

... 2nd ,1.5 High Ductile

... Oil Ring, 3mm 3 Piece



5

Bottom End - View 1

MM Windage Tray Scrapper Bar MM 320i Blue Printed Oil Pump Rods,145mm/500 grams (Stock rod 712 grams)



6

Bottom End - View 2

Note: Direct Water Pump Drive



7

2002 Oil Pan with Mini Pick-Up Sump



8

Oil Pan Baffling & Mini Pick-Up Sump



9

MM Low Rotational Mass Clutch & Flywheel Assembly

14 lbs. Total Weight Component breakdown



10

MM Low Rotational Mass Clutch & Flywheel Assembly with Throw Out Bearing

