

2100 Rally M42 Engine - Spec Sheet

For Hard Street and Driver School Use

MM 2100 Rally Engine

Displacement	2091cc
Bore.....	87mm x stroke 88mm
Compression Ratio	11.5:1
Horsepower.....	205 @ 7350
Torque	165 @ 5150
Redline	7700 rpm
Acceleration.....	0 - 60 - 6.5 sec. 1/4 mile - 14.5 sec. / 98 mph

Block Components

Crankshaft.....	88mm stroke forged steel crank with 8 counterweights, 29.5 lbs. stock 81mm stroke forged steel
Rods.....	MM 138 Ultralite "I" Beam Rod, 480 grams or MM 138 mm "H" Beam Rod, 540 grams '95 & newer
Pistons	
MM 87mm	Lightweight Forged Alusil Piston vented skirts 11.5 Compression Ratio/ 310 grams
Stock Cast Piston	10.0 Compression Ratio/ 360 grams
Rings	1.5mm Moly Top, 1.5mm 2nd and 3.0mm 3 piece Oil Ring (low radial tension design)
Piston Pin	21mm / 80 grams
Stock	22mm / 105 grams

Oiling Block Modifications

Anti Drain Back Valve.....	Valve added for hydraulic lifter buckets to keep the lifters from draining down
Main Bearings.....	360° oil groove to insure a constant flow of oil to the rod bearings. Stock main bearings have only a 200° oiling groove. this prevents oil from feeding to the rod bearings from bottom to top dead center. Also have a 360° thrust bearing - the stock thrust bearing is 180°
Rod Bearings	Tri-metal heavy duty Teflon coated bearings
Windage Tray	Optional: A windage tray/scrapper assemble is installed to peel slinging oil off the crank and send it to the oil pick-up.

Head Assembly

Head Flow	6% over stock
Head Bolts.....	MM socket head bolts 100mm long torqued to 64 ft. lbs. reusable Stock torque to yield torx head bolts 90mm long - non reusable
Cams.....	MM Rally Cams Intake: 272° Duration / 11.4mm Lift Exhaust: 250° Duration / 10.9 Lift
Hydraulic Lifter	Lighter Late Model M50tu 35mm Lifter
Valve Spring.....	MM "Bee Hive" spring with light 6mm retainer (25 grams lighter than the stock dual spring with 7mm retainer)
Valves	Surface Turbulence with 6mm stems, Stock valves have 7mm stems
Valve Guide	Shorter 6 mm manganese bronze Stock are 7mm brass