

# Reher-Morrison RACING ENGINES

## 583 All Aluminum-20° BBC

ENGINE SPECIFICATIONS	
<b>Carburetor</b>	90-92 Square jetting (Most engines come off the dyno with these jets. Re-jet as required for your location and weather conditions).
<b>Converter</b>	6000-6300 RPM Stall speed (Call RMRE's Parts Department. They can assist you in purchasing the ideal torque converter for your engine and car combination).
<b>Distributor - (Information @ right pertains to crank trigger systems)</b>	If connecting to a MSD ignition box: Normally connect the purple wire to Mag(+) terminal and green wire to Mag(-) terminal. Check at IDLE ONLY with a timing light. If light fires when magnet is AT the transducer...OK. If light fires BEFORE the magnet reaches the transducer...REVERSE the wiring.
<b>Fuel (Gasoline)</b>	VP Racing Fuels C-14 or equivalent (7-9PSI fuel to the carburetor).
<b>Headers</b>	2-1/4" to 2-1/2" Step Primary tubes (28-32" long) w/4-1/2" collector (12" long).
<b>Oil</b>	We suggest a good quality 10W-30 synthetic racing engine oil.
<b>Oil Pan</b>	8 Quarts of oil total (This includes the filter).
<b>Rings</b>	Top rings are gapped @ .025"/2nd rings are gapped @ .028".
<b>Spark Plugs</b>	Gapped @ .040".
<b>Timing, Cam</b>	Cam phased in the engine 2-3° advanced (110-111° Intake centerline).
<b>Timing, Ignition</b>	35-36° Total (More than 36° not recommended).
<b>Valve Lash</b>	.021" Intake/.021" Exhaust ( <b>HOT!</b> ) 130°F
TORQUE SPECIFICATIONS	
<b>Cam Bolts</b>	For belt drive 25Ft.Lbs. w/Loctite (1). Center bolt left hand thread 70Ft.Lbs. w/Loctite (1)
<b>Rod Bolts</b>	ARP2000 90 Ft.Lbs. w/Oil (3)
<b>Main Bolts</b>	110Ft.Lbs. w/Oil (3)
<b>Head Studs</b>	Long 7/16" studs 70Ft.Lbs. /Short 7/16" 65Ft.Lbs. w/Moly Lube (2) Inner Valley Stud Nut 40-45 Ft.Lbs. w/Oil (3)
<b>Oil Pump Bolts</b>	60-65Ft.Lbs. w/Loctite (1)
<b>Rocker Stand Bolts</b>	60Ft.Lbs. w/Liquid Teflon Sealant (4)
<b>Rocker Shaft Bolts</b>	25Ft.Lbs. w/Oil (3)
NOTES	
<p>(1) Loctite Threadlocker #271 (Red).            (2) Moly Assembly Lube (MoS<sub>2</sub> molybdenum disulfide). Available from our Parts Department in 2oz. Pkgs. (P/N 99002-1)            (3) Recommend using Non-Synthetic 50W Motor Oil for best torque results.            (4) PST Pipe Sealant w/PTFE is available from our Parts Department in 50ml. tubes. (P/N 592)</p>	

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