

Reher-Morrison RACING ENGINES

540 BBC

ENGINE SPECIFICATIONS	
Carburetor	88-90 Square jetting (Most engines come off the dyno with these jets. Re-jet as required for your location and weather conditions).
Converter	5500 RPM Stall speed (Call RMRE's Parts Department. They can assist you in purchasing the ideal torque converter for your engine and car combination).
Distributor - (Information @ right pertains to crank trigger systems)	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.
Fuel (Gasoline)	VP Racing Fuels C-14 or equivalent (7-9PSI fuel to the carburetor).
Headers	2-1/4" to 2-3/8" Primary tubes (28-32" long) w/4" collector (12" long).
Oil	We suggest a good quality 10W-30 synthetic racing engine oil.
Oil Pan	Total volume of oil required including filter. See note (5) below!
Rings	Top rings are gapped @ .020"/2nd rings are gapped @ .017".
Spark Plugs	Gapped @ .040-.045".
Timing, Cam	Cam phased in the engine 1-2° advanced (108-109° Intake centerline).
Timing, Ignition	36-38° Total (More than 38° not recommended).
Valve Lash	.025" Intake/.025" Exhaust (HOT!) 130°F
TORQUE SPECIFICATIONS	
Cam Bolts	For chain drive assembly. 25Ft.Lbs. w/Loctite (1)
Rod Bolts	ARP2000 90-100Ft.Lbs. w/Oil (3)
Main Bolts	100-110Ft.Lbs. w/Oil (3)
Head Studs	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)
Oil Pump Bolts	60Ft.Lbs. w/Loctite (1)
Windage Tray Nuts	40-45Ft.Lbs. w/Loctite (1)
Rocker Arm Studs	65Ft.Lbs. w/Liquid Teflon Sealant (4)
NOTES	
<p>(1) Loctite Threadlocker #271 (Red). (2) Moly Assembly Lube (MoS₂ 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) (5) Oil pan selection changed in Mid '09. Call our Parts Department with invoice or job number for determination.</p>	

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