

Reher-Morrison RACING ENGINES

509 BBC

| ENGINE SPECIFICATIONS | |
|--|---|
| Carburetor | 88 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 2-3° advanced (105-106° Intake centerline). |
| Timing, Ignition | 38-40° Total (More than 40° 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 | 60-65Ft.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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