

## A. Engine

1. The engine is based on the Ford 96-98 Ford 4.6 DOHC.
2. It is not permitted to lighten, balance, or modify in shape, by any mechanical or chemical means, the standard, optional, or alternate components of the engine.
3. Permitted engine maintenance includes the replacement, but not modification of external engine and engine systems parts. No machining is permitted except as specified.
4. Accusump oil accumulators are permitted with separate wiring.
5. The following specifications must be maintained:
  - a. Block: Ford Part # F6lz-6010-AB or equivalent
  - b. Bore size: 3.552-3.952" Cylinders may be sleeved to repair bore size.
  - c. Ford 4.6 DOHC SVT Cobra steel crankshaft #F8ZZ-6303-AA. Stroke: 3.543" Main bearing size: 2.85". Standard through .030" undersize bearings permitted. Rod journal bearings: 2.239". Standard through .030" undersize bearings permitted. Main and rod bearings may not be coated.
  - d. Connecting Rods: Ford Part # F6ZZ 6200 CA
  - e. Pistons: Ford PN # F3LZ-6108-DA. Compression height: 1.22" Pistons may not be coated.
  - f. Piston pins: Ford PN# F3LY 6135 A
  - g. Camshafts: Ford PN# F6ZE-6A270-AB, F6ZE-6A271-AB, F2LE-6A272-AF, F2LE-6A273-AF Duration: at .050", Intake/Exhaust 203/196 Lobe lift: Intake/Exhaust .397/.397 Lobe centers: 107 Intake/Exhaust 114°/114°
  - h. Cylinder heads: Ford B Series DOHC 4v 96'-98' Combustion chamber: minimum 52cc Ports: porting/polishing/matching etc. is not permitted except as factory supplied.
  - i. Valves: stainless steel Intake/exhaust 37mm/30mm Valve retainers: steel
  - j. Valve springs: Ford PN# F6LZ 6513 AB
  - k. Intake manifold- Ford PN# F6ZZ 9424 BA
  - l. Headers: Stock ford or "shorty" aftermarket headers
  - m. Valve covers: Stock
  - n. Oil Pump: F8OZ 6600 AA Dry sump systems not permitted.
  - o. Flywheel and clutch: Quartermaster Extreme-V drive 8.5" flywheel part number 512340 and Quartermaster single disc clutch package part number 185309051
  - p. Spark plugs: NGK 3951 or equivalent
  - q. Spark plug wires: Only Ford Racing # M-12259-R464
  - r. Oil filter: K&N HP-301
  - s. Air cleaner element: K&N RE-0870
6. Induction System
  - a. 24lb/hr Injectors: Ford PN#F55Y-9F593-A
7. Fuel System
  - a. Any Fuel pump permitted.