

## DAYTONA PROTOTYPES ENGINE ELIGIBILITY AND APPROVAL LIST as of 12/17/08

The following engines have been approved for competition in Daytona Prototypes.

### **BMW S62-B50 32 valve 5.0L V-8**

Bore: 3.701" Stroke: 3.502" Minimum crank weight: 40 lbs Maximum compression ratio: 11:1  
Cylinder heads and intake cannot be ported. Intake valve: 1.377" Exhaust valve: 1.200" Piston, rings, pin and connecting rod: 936 gm minimum Maximum camshaft lift @ retainer with zero lash: .500" Maximum cam duration: 260 ° @ .050" lift Induction: 8 individual butterflies @ 1.965" Must use OEM intake manifold. Air intake to be sealed to 11 x 9 9/16 hole in top of OE intake manifold. Must use approved air box. Cam profile on file cannot be changed RPM limit: 7000 Maximum fuel pressure 5 bar ( 72.5 psi)

### **FORD 5.0L V8**

Bore: 3.705" Stroke: 3.543" Minimum crank weight: 38 lbs, Maximum compression ratio: 11:1  
OEM GT40 cylinder head with production intake ports. . Maximum intake runner volume: 251cc, maximum exhaust runner volume: 115 cc Intake valve: 1.496" Exhaust valve: 1.260" Piston, rings, pin and connecting rod: 1000 gm minimum Maximum camshaft lift @ retainer with zero lash: .498" Maximum cam duration: 254° @ .050" lift Induction: two butterflies @ 2.250" diameter. Intake manifold by RYRE / Ford Racing, RPM limit: 7000 Maximum fuel pressure 5.0 bar ( 72.5 psi) Cam profile on file cannot be changed

### **HONDA 3.8L V6**

**Bore: 3.54" Stroke: 3.70" Minimum crank weight 35 lbs. Individual runner throttle bodies (2.370")  
Maximum fuel pressure 5 bar (72.5 psi)**

### **INFINITI 4.35L V8**

Cylinder bore: 3.661" Stroke: 3.149" Minimum crank weight: 34 lbs Maximum compression ratio: 11:1  
Cylinder head intake runner maximum volume: 196 cc's Cylinder head exhaust runner maximum volume: 83 cc's Intake valve: 1.424" Exhaust valve: 1.237" Piston w/rings, pin and connecting rod: 1000 gm minimum Maximum camshaft lift @ retainer with zero lash: .492" Maximum cam duration: 282°in/320°ex degrees @.050"lift Intake manifold as approved. Throttle body: Ron's four hole throttle body w/1.875" butterflies and 2.5" inch spacer. RPM limit: 7700 Maximum fuel pressure 5.5 bar ( 80 psi)

### **LEXUS ( TRD) 5.0L V8**

Cylinder bore: 3.720" Stroke: 3.500" Minimum crank weight: 38 lbs. Maximum compression ratio: 11:1  
Cylinder head intake runner maximum volume: 145 cc's Cylinder head exhaust runner maximum volume: 81 cc's Intake Valve: 1.458" Exhaust valve: 1.178" Piston w/rings, pin and connecting rod: 1000 gm minimum. Maximum camshaft lift @ retainer with zero lash: .510" Maximum cam duration 260° @ .050" lift. TRD intake #17112-GA008 top, # 17110-GA008 bottom, Toyota Throttle body # 22030-0F010 Maximum fuel pressure 5 bar ( 75.4psi) Maximum rpm : 7000; minimum crankshaft weight: 38 lbs. Cam profile on file cannot be changed

### **PORSCHE 3.99L GT3R Flat 6**

Up to 3.99 liter displacement. ~~with unlimited components.~~ Engine to Transaxle adaptor with 24/25 or 24/23 (Xtrac only) drop gear ratio permitted allowed approved supplier TBA. Maximum RPM: 9200. Maximum fuel pressure 5.2 bar (75.4 psi) **Cars electing to use this engine must weigh 2275 lbs. Six speed transaxle is permitted.**

~~3.8 liter displacement with unlimited components. Engine to transaxle adaptor with 1 to 1 ratio allowed, approved supplier TBA. Maximum fuel pressure 5.2 bar (75.4 psi). Eligibility of 3.8 liter engine expires 2/01/2009.~~

### **CAYENNE based 5.0L V8**

( by Lozano Bros. Porting)

Cylinder Bore: 3.701 Stroke 3.543 ,Minimum crank weight :38 lbs .Maximum compression ratio: 11:1. Cylinder head intake runner volume 156 cc's. Cylinder head exhaust runner volume: 121 cc's . Intake valve:1.464.Exhaust valve: 1.282.Piston w/rings ,pin and connecting rod 1000gm minimum .Maximum cam duration 260°@.050 lift .Maximum cam lift w /zero lash: 500. Throttle body : 3.159 ID.( Lozano Bros.) Ma body : 3.159 ID.( Lozano Bros.) Maximum fuel pressure 5 bar ( 72.5 psi). **Maximum rpm 7300.**

### **PONTIAC 5.0L V8**

\*Can also be branded as Cadillac or Chevrolet. Standard Bore LS6 or sleeved LS2 engine block: 3.900" Stroke: 3.185" Minimum crank weight: 38 lbs **Maximum compression ratio: 11.5:1** Cylinder heads must be OEM LS6. Intake and exhaust ports cannot be modified. Cylinder head intake runner maximum volume: 230 cc's Cylinder head exhaust runner maximum volume: 87 cc's Intake valve: 2.000" Exhaust valve: 1.550" Piston w/rings, pin and connecting rod: 1000 gm minimum May use titanium wrist pin. Maximum camshaft lift @ retainer with zero lash: .590" Maximum cam duration: 260° @ .050" lift Must use with no modifications Maximum RPM: 7100 Maximum fuel pressure 5 bar ( 72.5 psi) ~~#12580420 intake manifold~~ **PN 54042 LSRXT Intake Manifold, PN 54009-9 LS6-type port gasket replacement seal set** and # PAX – 0649 throttle body available through GM - [charles.vancamp@gm.com](mailto:charles.vancamp@gm.com).

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