UMSS Traditional Series – 5.3L LS Engine

To the signee of this form;

The engine you are certifying is being certified for use in a UMSS Traditional Sprint Car. The UMSS has created a sealed engine program that allows the signee of this form to certify and seal an engine for use in a UMSS Traditional Sprint Car. By filling out and signing this form, you, as the signee of this form, are certifying the engine complies with the specifications outlined in this checklist. If an engine you have certified and sealed is later found to be illegal, any driver using the engine you certified will face fines and a suspension as published in the UMSS rule book.



Please contact David L. Anderson at anderson@sherbtel.net if you have any questions on the engine certifying process.

David L. Anderson UMSS Tech

UMSS 5.3L LS Engine Certification Checklist v. 1.0

SIGNEE INFORMATION

Name:	
Address:	
Telephone number:	

CHECKLIST

Cubic Inches UMSS legal engines Factory production iron 5.3 LS blocks only 3.78" bore + .060" maximum overbore 3.622" stroke	Bore Stroke
Compression Ratio Maximum compression ratio allowed is 9.5:1	Compression ratio
Block Factory production iron 5.3 LS blocks only No bow-tie or aftermarket blocks allowed No lightening allowed. All stock mounts must remain No oversize or roller cam bearings allowed 	Block casting number
 Crankshaft A stock OEM Chevrolet 3.622" stroke 5.3 LS crankshaft is the only crankshaft allowed Lightening, knife edging, or polishing of the crankshaft throws is not allowed The crankshaft flange may be machined to fit the rear motor plate and torque ball housing Crankshaft balancing is allowed 24 and 58 tooth reluctor wheels are allowed 	Crankshaft casting number
 Connecting Rods The Chevrolet OEM powdered metal 6.098" connecting rod is the only connecting rod allowed No grinding or polishing of the rod beams Balancing is allowed Aftermarket rod bolts are allowed The small end of the rod may be bushed for a floating pin 	Rod casting number
Camshaft Hydraulic camshafts only The camshaft may be drilled for a rear spud .600" maximum lift at the valve 	Camshaft lift at the valve

 Camshaft lifters Stock OEM lifters with a GM part number are the only lifters allowed The lifter must have a minimum of .100" travel 	
 Timing set Timing chains only No timing belts or gears allowed 	
Cylinder Head Factory Chevrolet aluminum heads only Casting number 862 or 706 are the only heads allowed Valves; 1.89" intake valve 1.55" exhaust valve Stock valve length Stock .313" valve stem diameter Porting or polishing is not allowed Angle milling is not allowed Machining of any valve throat material ¼" below the top of the valve seat is not allowed Single beehive spring only 	Cylinder head casting number
 Rocker arm and pushrod Stock or stock replacement rocker arms only Roller tipped rocker arms are not allowed Rocker arm trunions may be upgraded for more lift if required 5/16" stock or stock replacement pushrods only 	
 Intake manifold The Edelbrock Victor Jr, PN 29087, is the only intake manifold allowed Porting, polishing, or gasket matching is not allowed Altering the intake manifold floor is not allowed 	Intake manifold part number
Ignition Stock or stock replacement coil packs only. No performance coil packs are allowed Stock firing order only Maximum timing is 32 degrees at 5500 RPM's 	Timing at 5500 RPM's
 General rules; Titanium parts are not allowed If the rulebook does not state it is legal, it probably isn't UMSS tech will determine what is, and what is not legal 	

Sealing procedure	
 After the engine has been 100% certified, the intake manifold, driver's side cylinder head, and timing cover must be sealed with UMSS supplied seals 	
Seal serial numbers must be recorded	
 The intake manifold will be sealed with a UMSS seal using the front two bolts located on the driver's side of the intake manifold 	
 The driver's side cylinder head will be sealed with a UMSS seal using the lower, 2nd and 3rd bolt from the front of the cylinder head 	Intaka saal sarial number
 The timing cover will be sealed with a UMSS seal using two bolts located approximately at the top center position on the timing cover 	
 Seals are to be installed in such a manner as to not loosen the sealed bolts over time 	Cyl head seal serial number
 Seals are to be installed in such a manner as to not allow seal tampering 	
 Contact David L. Anderson at anderson@sherbtel.net if you have any questions on seal placement 	Timing cover seal serial number

By signing this document, you, as the signee of this form, are certifying the engine you sealed complies with the specifications outlined in this checklist. You further agree that knowingly providing false information on this document will expose the driver competing with the engine you certify to fines and a suspension as published in the UMSS rule book. The UMSS appreciates your integrity.

Name and title (printed) ______

Signature	
<u> </u>	

Date _____

Mail this form to;

David L. Anderson PO Box 171 Elk River, Mn 55330