

**SOUTHERN CALIFORNIA TIMING ASSOCIATION
Presents 2011 Speed Trials RULES**

SECTION 1 GENERAL COMPETITION REQUIREMENTS

1.G RECORD RUNS:

Change pp 1, 6th sentence:

Qualified entrants will have 4 hours from the time of check-in to perform necessary maintenance on the vehicle. Entrants should be cognizant of pit closing time and be careful not to run late in the day if a full 4 hours are needed for maintenance.

1.M DRIVER LICENSING:

Add new 4th sentence to pp 2:

All rookie driver's will be limited to 150 MPH on their first run.

SECTION 2 CAR COMPETITION SPECIFICATIONS

2.A ENGINES:

Rewrite 2nd sentence, pp 2:

For non-reciprocating engines, equivalent displacement (ED) will be calculated by the following formula: **ED=SV x2** where SV is the Swept Volume. The cubic inch to liter conversion shall be computed by the formula: cid/61.024 = liter.

For example only, class realignment:

12A: S.V. = 1,146cc, E.D. of 2,292cc = 139.9 CID = SCTA F Class (was E)
13B: S.V. = 1,308cc, E.D. of 2,616cc = 159.6 CID = SCTA F Class (was E)
20B: S.V. = 1,962cc, E.D. of 3,924cc = 239.5 CID = SCTA E Class (was C)

Add new allowance for engines out of class:

ENGINE CLASS BREAK

Omega Engines using a thermodynamic cycle other than Otto

Cubic Inch	Liter Equiv.
AA 501.00 cid and over	8.210 liters and over
A 440.00 to 500.99 cid	7.210 to 8.209 L
B 373.00 to 439.99 cid	6.112 to 7.209 L
C 306.00 to 372.99 cid	5.015 to 6.111 L
D 261.00 to 305.99 cid	4.277 to 5.014 L
E 184.00 to 260.99 cid	3.015 to 4.276 L
F 123.00 to 183.99 cid	2.016 to 3.014 L
G 93.00 to 122.99 cid	1.524 to 2.015 L
H 62.00 to 92.99 cid	.016 to 1.523 L
I 46.00 to 61.99 cid	.754 to 1.015 L
J 31.00 to 45.99 cid	.508 to 0.753 L
K up to 30.99 cid	.507 L and under

In classes where not all engine breaks are available, the smallest displacement class allowed is open to all engine displacements that fall within it and below it.

2.A.1 VINTAGE ENGINES

Rewrite pp 6, 1st sentence:

A specialty cylinder head is fabricated billet stock, cast or a modified OEM head that has added ports. At least one valve per cylinder shall be in the head.

2.D SHOCKS:

Add to end of 1st sentence:

A functional shock absorber is required for each sprung (**movaeable, non-fixed/rigid**) wheel.

2.E DRIVE HUBS:

Rewrite 1st sentence:

Any car equipped with a non-retained axle bearing (non-Hotchkiss type rear axle, **front wheel drive hubs and four wheel drive hubs**) assembly shall incorporate an approved hub to prevent loss of a wheel in the event of rear axle failure.

2.F TIRES:

Add dropped sentence to pp 8:

Tubeless tires shall use a metal valve stem.

2.I PUSH BARS:

Rewrite last sentence, pp 1:

All cars shall be equipped with a push bar or a **readily available** tow attachment.

SECTION 3 TECHNICAL SPECIFICATIONS & REQUIREMENTS

3.A.1 Minimum Driver's Suit Requirements:

Add SFI spec:

ALL DRIVERS SHALL WEAR A SFI 3.3 HEAD SOCK OR a SFI 3.2 HELMET SKIRT.

3.A.2 Driver's Helmet:

Rewrite to reflect 2010 notice, 2nd sentence:

A Snell Foundation tag reading Snell SA2005(FIA 8860-2004) Competitors are encouraged to upgrade to the now available Snell SA2010(FIA 8860-2010), Snell SAH2010 or FIA 8860-2010 standard helmets if making a new purchase. The Snell rating label change date from 2005 to 2010 will occur in 2015.

All cars and motorcycle streamliners require SA rated helmets.

3.A.3 Driver's Helmet Support:

Rewrite to reflect 2010 notice:

Forward movement: All cars and motorcycle streamliners shall have an engineered and tested SFI spec 38.1 type head and neck restraint system.

Add new sentence:

Lateral movement: The seat or roll cage structure shall provide restriction to lateral head movement of less than 2 in. per side inclusive of structure deflection, **and at a minimum extend to the forward most portion of the helmet** see Section 3.B.1.

3.B ROLL CAGES:

3.B.1 Roll Cage:

Add new 4th sentence, pp4:

Gussets may not be used as aerodynamic aids and shall not exceed 6 in. in length without prior technical review and board approval.

3.D DRIVER RESTRAINTS

3.D.2 Seat Belts:

Rewrite 1st sentence to include 2" seat belt specs:

Seat belts meeting SFI specification 16.1 **or SFI specification 16.5**, quick release, competition type seat belts and shoulder harness, with 3 in. lap belt, 3 in. shoulder belts **or 2 in. shoulder belts (designed to meet the installation requirements of a helmet support system, SFI 38.1)**, and 2 in. crotch strap are mandatory in all categories.

3.D.3 Arm/Leg Restraints:

Rewrite sentence 1 & 2, pp 3:

Restraint nets are acceptable as the primary leg restraint system. **All mounting tabs/brackets shall be mounted inside the outside plane of the roll structure and shall not be exposed to the track surface in case of an incident or come into contact with the driver's body.**

3.I FUEL SYSTEMS:

Rewrite 3rd sentence:

All components of the fuel system shall be isolated from the driver's compartment or pre-approved by the Technical Committee.

3.I.1 Fuel Shut-off:

Rewrite 3rd sentence, pp1:

All electric fuel pumps shall have an inertial switch in the circuit to disable pump operation.

3.K BATTERIES:

Rewrite pp 2:

All vehicles shall be equipped with a main battery disconnect switch. **The disconnect switch or a positive mechanical control (cable or rod) for the switch shall be located on the front or rear of the vehicle, operable externally and clearly marked.**

3.Q FIRE EXTINGUISHING SYSTEMS:

[Add note to requirements:](#)

Minimum Agent Requirements:

0-150	MPH	5 lbs. min.	Driver area
151-200	MPH	10 lbs. min.	Driver & engine
201+	MPH	11 lbs. min.	Over 5 lbs. for driver

***Note: Beginning January 1, 2012 the minimum agent requirement for all vehicles will be 10 lbs. min. Driver and engine, 0-200 MPH.**

3.U WINDOWS AND WINDSHIELDS:

[Rewrite sentence 1 & 2, pp 4:](#)

All vehicles under 250 MPH shall have SAFETY film on BOTH SIDES of all non-laminated safety glass windows, or replace the windows with polycarbonate material. Common window tint will NOT be allowed as a substitute for SAFETY film. All vehicles over 250 MPH shall have all non-laminated windows constructed of polycarbonate material.

SECTION 4 DEFINITIONS

4.CC.1 Air Dams and Splitters:

[Rewrite sentence 2 & 3:](#)

Add new specs for air dam:

An air dam may be attached to the leading edge of the bumper and not be considered to be extending forward of the front bumper so long as no point of the air dam projects more than 1/4" forward of the original contour of the leading edge of the front bumper when viewed from above.

4.CC.5 Parachute Pack Mounts:

[Add new definition and specs:](#)

A parachute pack mounting plate must not extend more than 1" past the edge of the Parachute bag on all sides. The maximum length on all sides supporting the mounting plate shall be 6". If two chutes are mounted side by side on the same plate the max space allowed between them is 4". No more than two chutes can be mounted on one mounting plate. If the pack mount/mounts have to be more than 6" off the body a tube structure must support the mounting plate/plates.

4.CC.6 Parachute Mounting Tubes:

[Add new definition and specs:](#)

Parachute mounting tubes may extend no further than 6" behind the rearmost part of the original body and must not be faired into the body. The maximum length of any side of a tube extending from the body is 12". These dimensions are dependant on specific class rules.

4.CC.9 Strake:

[Add new definition and specs:](#)

Strake is an aerodynamic device at the rear of the vehicle that directs air flow under the vehicle. The strake must be mounted no further back than the trailing edge of the body, perpendicular to the ground and parallel to the center line of the vehicle. The strake can be mounted no further out than the inner plane of the rear tires and must be no further forward than the intersection to the belly pan/under tray.

4.FF SUPERCHARGED:

[Add new 2nd sentence:](#)

The supercharger or turbo charger must pressurize the intake system above atmospheric pressure.

4.KK OEM Body Kit:

[Add new definition and specs:](#)

Body kits produced by a recognized automobile manufacturer for a specific year vehicle must be used as a complete package. 500 kits for the same model were/are required to be for sale to the general public meets the production requirements. Mixing and matching pieces from different years or not using the complete kit will be considered streamlining.

SECTION 5 CAR CLASSES

Add new 2nd sentence:

5.B.1 Modified Roadster - /BFMR, /FMR, /BGMR, /GMR

In addition to the general category requirements, cars in this class shall have a production roadster body or an exact replica of a roadster body as produced between 1923 and 1938. **The combined body area covered or altered by the headrest fairing, all parachute fairings, and any other allowed body protuberances or displacements, from the original cockpit opening to the rear of the car cannot exceed 65%, as measured in a horizontal plane from the top view.**

Add new 2nd sentence:

5.B.1.a Rear Engine Modified Roadster - /BFRMR, /FRMR, /BGRMR, /GRMR

In addition to the general category requirements, cars in this class shall have a production or an exact replica of a roadster body as produced between 1923 and 1938. **The combined body area covered or altered by the headrest fairing, all parachute fairings, and any other allowed body protuberances or displacements, from the original cockpit opening to the rear of the car cannot exceed 65%, as measured in a horizontal plane from the top view.**

5.B.5 Vintage Oval Track /VOT Midget Vintage Oval Track /MVOT

Add to 4th sentence, pp 2:

The frame may be of any construction except monocoque, and all wheels shall be sprung, **see section 2.D**

Add new last sentence, pp 4:

ALL NEW CARS or EXISTING CARS where body modifications are being made shall be submitted to the VOT Category Chair for approval.

5.D MODIFIED CATEGORY

Add new 3rd sentence:

This category encompasses American and foreign coupes and sedans unaltered in height, width or contour, and with all stock panels mounted in original relationship to each other. The vehicle has been modified to such an extent that it no longer fits into the Production Category. **A generic requirement for this category is the car shall have been originally produced with seating for 4 or more people, i.e. adults or children. If the car was produced and sold with 2 seats on some models and 4 seats (including jump seats) on other models, the car will be classified as a Coupe and Sedan. Examples include Honda CRX, Ford Mustang GT 350's, Porsche, Nissan Z 2+2, etc.**

5.D.3 Gas Coupe - /BGC, /GC

Rewrite 3rd sentence, pp 5:

A replacement radiator of the same height and width and mounted in the original location as OEM shall be used. Blocking of air flow thru the radiator in front or behind is not allowed.

5.E PRODUCTION CATEGORY

Add new 3rd sentence:

This category is intended to represent typical transportation vehicles, which may be purchased from ANY automobile dealer. A production rate of at least 500 vehicles of the same model and available from any dealer's inventory for sale to the general public is considered to meet the requirement of a production automobile. This category is intended to represent typical transportation vehicles, which may be purchased from ANY automobile dealer. **A generic requirement for this category is the car shall have been originally produced with seating for 4 or more people, i.e. adults or children. If the car was produced and sold with 2 seats on some models and 4 seats (including jump seats) on other models, the car will be classified as a Coupe and Sedan. Examples include Honda CRX, Ford Mustang GT 350's, Porsche, Nissan Z 2+2, etc.**

5.E.1 Production Class:

Add new 2nd sentence, pp 3:

A replacement radiator of the same height and width and mounted in the original location as OEM shall be used. Blocking of air flow thru the radiator in front or behind is not allowed.

5.E.3 Grand Touring Sport - /BGT, /GT

Rewrite pp 1 & 2:

This class is limited to 2-seat production sports cars like the Corvette, Honda S-2000 or Fiero as well as limited production cars like the Factory Five Cobra manufactured by a recognized automobile manufacturer intended for comfortable high-speed driving. A production rate of at least 500 vehicles of the same model for sale to the general public is considered to meet the requirements of a production automobile.

Body styles produced with jump seating for more than two people like a Datsun 280Z 2+2, Porsche 911 or Honda CRX even though they may only have two seats will be considered a Coupe and Sedan and must run in that class.

Rewrite pp 4:

Engine swaps in this class are allowed (e.g. Ford into Ford, Porsche into Porsche, etc) as long as they were originally used in an automobile produced by the same manufacturer.