

# TECHNICAL REQUIREMENTS FOR RACE CARS

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#### **Technical Requirements for Race Cars**

VSCDA vintage racing involves historic and vintage competition vehicles from many different forms of road racing worldwide and almost the entire century of the sport. Since it is difficult to standardize all aspects of car preparation the following guidelines have evolved to ensure basic safety and vehicle integrity. Cars must be presented in a neat and finished condition. Cars shall be prepared according to relevant SCCA or FIA General Competition Rules (GCR's) in effect up to 5 years after the date of the car's manufacture, but no later than December 31, 1972, except for Groups 5 & 7. Modifications beyond the era of a car's production, made for other than safety reasons, may result in reclassification of Group.

VSCDA offers and encourages the use of an annual technical inspection, valid for one year from the date of issue, providing the car is raced at least every 3 months. The annual technical inspection covers both the racecar and the driver's safety equipment. Once the technical inspection has been completed, The logbook will be stamped with the VSCDA Annual Tech stamp. The car will go through an inspection as described below once during the year and then can be passed, upon presentation of the logbook and with the event's tech sheet, at our events for the calendar year. Cars with an annual inspection involved in an incident, must be re-teched before being allowed back on the track and have the annual inspection revalidated for use at subsequent events. If the car does not have an annual tech inspection, it must be presented for tech at each VSCDA event it is entered in.

#### All Vehicles Must Conform to the Following Items:

#### Safety

- 1. On board fire extinguishers are mandatory and must be securely fastened inside the cockpit area with a metal quick release within reach of the driver. The extinguisher must be capable of suppressing a class B fire and be a minimum of a 2 pound system with a charge indicator. A 2 or 3 nozzle fire system is highly recommended. An "E" label must be on the outside of the vehicle to indicate, as close as possible to the location of the activation device. (Monoposto Racing rules require a minimum 2 pound fire system to be installed in groups 4 & 7)
- 2. A master electrical cutoff switch is mandatory and must be clearly marked by the "lightning bolt" label and be easily accessible as possiblefrom the outside of the vehicle. When the switch is in the "off" position, the engine must not be able to continue to run. It is mandatory that this switch shall interrupt power and/or ground to the ignition system and also interrupt power to the electric fuel pump, if so equipped. An inertia style shut of switch is encouraged.
- 3. Fuel cells are mandatory in all race groups, except pre-war. These must be of a type approved by FIA, SCCA, NASCAR, or IMSA. The cell must be fully enclosed in a metal container with positive locking cap. The cell shall also incorporate foam inside a bladder. The cell shall be vented to the atmosphere, through a check valve, to provide leakage protection in the event of a rollover. The vent shall exit the vehicle outside the driver's compartment and outside the fuel compartment. Fuel cells installed in a factory original tank position must be verifiable upon inspection. The bottom of the cell shall have a minimum of 6" ground clearance and be above the bottom of both wheel rims nearest the cell so that it will be above ground in the event both of those tires should go flat, unless fully enclosed within the body work. In GT Production type cars, the bladder shall be installed in a container of .036" steel, or .059" aluminum, which fully surrounds the bladder. In Sports Racer and Formula cars, the fuel bladder shall be completely surrounded by a container (which may also be part of the structure or bodywork of the car) to ensure rigid and secure mounting of the bladder and provide additional protection. A minimum of .036" steel or .059" aluminum is required for all vehicles. Fuels shall not contain nitro-methane. Nitrous Oxide use is prohibited.
- 4. Race vehicles, except pre-war, must be equipped with roll bars or roll cages sufficient in structure and height to protect the driver in the event of a rollover situation. Roll bars will conform to the SCCA height requirement of a minimum of 2" above the driver's helmet and should have padding in any area that may come in contact with the head. H. VSCDA recommends more than 2" to anyone constructing or modifying a roll bar since a roll bar on an upside down car can dig into soft ground when off the pavement. This protection is preferably constructed according to the latest SCCA requirements for the car weight and style, but as a minimum must meet the SCCA vintage rules for the car weight and style.

In groups 2, 3, 5, 6 and 8, in a closed car, a window net, attached to the roll cage, with positive locating metal fasteners, should be installed. If a window net is not installed, it is mandatory that the driver wears arm restraints. Arm restraints are mandatory in Groups 4 and 7. Arm restraints are strongly recommended, but not mandatory in Group 1. The addition of safety equipment is encouraged or required as outlined above. However, such equipment should not substantially alter the character, style or spirit of the car.

- 5. Batteries must be securely fastened with a metal hold down and the hot terminal must be covered to prevent accidental contact with the chassis in the event of rollover or crush damage. Batteries installed in other than original location should be contained in a marine type box to prevent acid splash in the event of a collision. All wiring shall be neatly run and secured to the vehicle using wire ties, clamps etc.
  - 6. All forms of fuel delivery systems must have at least 2 visible external throttle springs for the accelerator linkage.
- 7. All cars must be equipped with an FIA or SFI approved 5-point (minimum) driver restraint system composed of a 2" wide lap belt, anti- submarine strap or straps, and 2 inch wide minimum. (3" wide strongly recommended) shoulder harness straps. Shoulder harness straps may not be attached to the same point in a "Y" configuration. All straps must be in excellent condition and securely attached to the frame, roll bar or cage, or reinforced portion of the vehicle structure with a minimum grade 5 bolt and installed to manufactures instructions and SFI installation guide.

Belts should not be older than 5 years from the date of manufacture.

- 8. A firewall composed of a nonflammable material must separate the driver's compartment from the engine compartment and another must separate the driver's compartment from the fuel tank. The preferably metal bulkhead must have no open holes and all breaches must be plugged. In Formula cars and Sports racers, the filler cap and neck are exempt from the bulkhead requirement.
  - 9. Exhaust must end behind the drivers position so that gasses may not enter in the area of the driver.
- 10. Towing eyes are recommended front and rear of all race cars with the exception of open wheel formula cars and some sports racers.

## Equipment

- 1. All cars must have mirrors that provide driver visibility to the rear and both sides of the car.
- 2. All cars, except Formula cars (open wheel), must have two working red brake lights.
- 3. Formula cars must have red running light (rain light) visible to following cars. Formula cars may also have one red brake light. (Formula cars must conform to Monoposto Racing rules and regulation.)
- 4. Catch tanks shall be installed to receive and contain any possible overflow from engine, radiator, transmission, differential, transaxle, or any engine oil supply breathers. Racecars may use only plain water; a water wetting agent and water pump lube in a liquid engine cooling system. No antifreeze or any other cooling system additive is allowed. Oil and water catch tanks should be separate and a minimum of one quart each.
- 5. On board <u>cameras & mounts</u> must be approved at technical inspection for security and integrity. Cameras must be encircled with web strap or tie straps to provide additional restraint for the existing screw in camera mounting system. No bungee cords allowed. Camera mounting and security will be checked again on the grid before each session.

6. We will accept 2 Snell rating periods effective the beginning of the racing season.	(E.g. For this year Driver's helmets						
with a 2010 or newer SA rating will be accepted). No "M" helmets are allowed. There are no excepted with a 2010 or newer SA rating will be accepted.	eptions to this rule. Drivers of open						
cars must wear goggles or full faced shields. It is highly recommended that everyone wears a	ull-face shield. Drivers should have						
their name, age, blood type and any allergies or special conditions on the back of their helmets.							

- 7. All drivers must wear properly fitted suit and underwear ensemble that consists of 2 or more layers of approved fire protection material. A balaclava is required for all drivers who have either facial hair or long hair. One piece, three layer suits are strongly recommended, and all suits must display the appropriate SFI of FIA labels, which allows tech inspectors to verify the suit to be fire retardant. (Monoposto Racing rules require 3 layers) 8. Nomex or equivalent socks are required. Driving shoes must have leather uppers, no rubber or nylon allowed.
- 8. Single layer Nomex gloves are required. Leather palms are permitted, while additional layers are strongly recommended.

- 9. A head and neck restraint that is SFI or FIA approved is now required for all groups, with the exception of Group 1 where we strongly recommend the used of an approved head and neck device. This equipment must be presented at tech inspection if it is to be worn by the driver on the race course
- 10. Signs of damage, breaches, torn seams, tearing or excessive wear evident on any or all of the above driver's equipment, to the point of rendering such equipment ineffective in driver protection, is sufficient grounds to fail technical inspection.
- 11. Transponders are mandatory in all Groups except Pre-war Group 1. The required transponder is TranX260 as manufactured by AMB, for use in cars. It is reddish range in color. This is the same transponder being used by SCCA, Midwestern Council and SVRA. The yellow transponder is for use in go-karts and is not compatible with the systems at the tracks.

#### Preparation:

- 1. Engine must be of manufacture, type and displacement as close as possible to the original engine type and specifications. Modifications affecting power output are limited to those available before 1964, in the case of Vintage Cars, and before 1973 in the case of Historic Cars. Modifications beyond these limits may result in reclassification.
- 2. All steering and suspension components shall be properly fitted with no excessive play or wear, and should be of correct original configuration, with no dragging or loose components. Wood rim steering wheels are not permitted. Pre-war cars or significant vintage cars, for which no suitable alternative steering wheel is available, should be brought to the attention of the Chief of Tech prior to being presented for technical inspection. Wooden steering wheels are approved for pre-war only if they have metal frame reinforcing.
- 3. All folding tops, folding windshields, sunroofs, removable tops and T-tops must be securely mounted or removed. All hoods, deck lids, and doors must be securely fastened. Modifications from original competition configuration are not permitted. Racecars retaining original glass or plastic head lamp and turn signals must have these covered or neatly taped over. Clear tape over break lights is highly recommended. Original equipment windscreens or windshields must be laminated safety glass construction. Strapping of windshield and rear windows is strongly recommended on fixed roof vehicles.
- 4. Metal, fiberglass, carbon fiber or any other "hard" tonneau covers are expressly forbidden due to potential intrusion into the driver's inboard side. The only exceptions to this rule are covers that incorporate the windshield and came as part of an original race car such as in "C" and "D" Type Jaguars and Lotus XI LeMans.
- 5. Wheels should meet original specifications for diameter, width and offset. Where original sizes are no longer available, wheels of the same diameter within ½ "od the original width may be substituted. The maximum wheel size allowed in Group 6 is 15" x 9" with the following exceptions: 1968 through 1972 Corvettes and AC Cobras may use a wheel up to 9½" in width. Any change in construction material must be toward added strength rather than lighter weight. For safety reasons, modern replica wheels are recommended. Wheel balance weights should be taped over for additional security to retain them. It is preferable to have open type lug nuts so that thread engagement may be seen. The threaded portion of the mounting stud should project through the lug nut for verification at a glance. If covered or "acorn" style lug nuts are used, you may be asked to remove a lug nut so that the thread engagement can be verified during tech inspection.

6. Tires should be as close as possible in size, including tread width, section and diameter, to the original equipment. Original racing type tires are preferred. The aspect ratio – height divided by width – must be at least 60 for all Vintage cars and at least 50 for all Historic Production based sports cars. All of the vintage and historic production based racing cars must use tires with full width molded tread pattern. Fully treaded original racing tires such as Goodyear Bluestreaks, Dunlop or Avon racing tires, that predate DOT, are approved. All Group 2, 6, and 8 cars must run on full width, molded tread racing tires or suitably speed rated shaved street tires.

The following tires are approved in Groups 2, 6, and 8: Avon, Dunlop L. Series, Goodyear Bluestreaks, Goodyear Sports Car Special (G7 & G12A) Goodrich Comp T/A R1 230 Compound Hoosier TDR, Hoosier Vintage TD, Kumho V700, Hoosier Speedsters, Yokohama A008R, A032, A048 and Falkein. Any tire not listed above must be submitted for approval and specifically authorized by VSCDA prior to the race.

Group 6 cars will run on tires of one of the following listed sizes or smaller. P225/60/15, P245/60/15, 26.5x 9.5/15, 27.5x9.0/15, 1.60 x 15, 8.00 x 15. Group 6 cars not conforming to these specifications will be moved to the exhibition group, if available, or otherwise may not be allowed to run. Hoosier R350 & R3504, Goodyear Eagle GS-CS (R-19) and Goodrich G-Force or any other "cheater" tires are not allowed in Groups 2, 6, and 8.

7. Competition numbers must be displayed neatly and so as to be legible by timing and scoring on both sides and the front of the vehicle in a color that contrasts with the back ground. The assigned number must be displayed on the car at the time it is presented for technical inspection. If you don't have the assigned numbers on your car you will fail technical inspection and will not

be issued a tech sticker. Numbers must be a minimum of 8" high with a minimum stroke of 1 ½". Rear end or rear deck numbers are highly recommended though not mandatory.

8. Exterior of the car shall be kept as original and have a neat and finished appearance. Fender flares shall be as original, if they were allowed in the era. Commercial advertising is not allowed except for race series sponsorship specifically approved by the VSCDA Board of Directors.

#### Car Preparation Sheet (CPS):

Before entry will be accepted for VSCDA events all cars must have an up-to-date <u>CarPreparationSheet(CPS)</u> on file with the VSCDA office. Submit this sheet the first time a car is registered to race with VSCDA and when preparation changes. Supplemental Rules and Regulations for "Race Groups and Specific Cars":

1. Race Groups 2 and 8 (Supplemental Rules)

VSCDA has two types of preparation; <u>PeriodsSCCAPreparation</u> and <u>ModPreparation</u>. Cars which are prepared to the more liberal rules of some VMC organizations are usually accommodated in one of the VSCDA Mod Classes

VSCDA also has provisions which allows some cars to be prepared to "other period regulations" as described in item 9 in this section.

To determine the minimum race weight for cars in Groups 2 and 8 look up the spec. weight in the table "GCR Car Specifications" on the VSCDA website. Multiply this weight by the percentage below.

Period SCCA Preparation	95%
MOD – 1	90%
MOD – 2	85%

## <u>PeriodSCCAPreparation</u>

Race Group 2 (Classes A through E) Race Group 8 (Classes B1, B2, C and X)

This table covers some important SCCA period requirements which VSCDA expressly focuses attention on. Cars are also expected to meet all other SCCA period requirement unless expressly covered by exceptions listed in this document in the VSCDA General Rules and Car Specific Exceptions Item 8.

<u>ITEM</u>	<u>SCCASPORTSCARS</u>	SCCASEDANS(B,C,D)
Source of Regulation	SCCA 1967 General Competition Rules	SCCA 1967 General Competition Rules
	Appendix A/Article 1. Production Category	Appendix A/Article 5 SCCA Sedans
	Sports Cars (w/PCS sheets)	(w/Recognition Forms)
	And often review 4070 and prior care harmale retail to	And often review 4070 and prior core homested to
	And after review, 1972 and prior cars homologated to similar regulations published by FIA and some other	And after review, 1972 and prior cars homologated to similar regulations published by FIA and some other
	sanctioning bodies	sanctioning bodies
MINIMUM WEIGHT	Weight on PCS, minus 5% tolerance	Weight on Recognition Form, minus 5% tolerance
DISPLACEMENT	Maximum overbore 0.060", standard stroke	Maximum overbore 0.060", standard stroke
SUSPENSION	Must be production rear axle assembly, suspension	Must be production rear axle assembly, suspension
	members and mounting points.	members and mounting points.
	Shock absorbers must be production type (i.e. lever,	Shock absorbers must be production type (i.e. lever,
	telescopic), original number and attachment points. Remote	telescopic), original number and attachment points.
	reservoir shocks are not permitted.	Remote reservoir shocks are not permitted.
	Coil over springs are not allowed unless originally used in	Coil over springs are not allowed unless originally used in
	production.	production.
	Anti-sway bars, torque arms, panhard rods and other similar	Anti-sway bars, torque arms, panhard rods and other
	axle locating devices free.	similar axle locating devices free.
BRAKES	Original production brakes must be used at the wheel	Original production brakes must be used at the wheel
	locations. Dual master and servo systems may be added.	locations. Dual master and servo systems may be added.
	Friction material and Alfin type brake drums are free.	Friction material and Alfin type brake drums are free.
INDUCTION SYSTEM	The carburetors and manifold must be those originally	The carburetors and manifold must be those originally
	supplied by the manufacturer, including the make, model,	supplied by the manufacturer, including the make,
	and throat diameter. The jets, needles, seats and chokes	model, and throat diameter. The jets, needles, seats and
	may be changed. Note: Other carburetors may be allowed in this Production Classes when period Homologation papers	chokes may be changed. Note: Other carburetors may be allowed in this Production Classes when period
	for the make/model/year are presented at Tech.	Homologation papers for the make/model/year are
	Tor the make/model/year are presented at rech.	presented at Tech.
	Fuel injection throttle bodies and nozzles must be the same	prosonted at room.
	as originally supplied by the manufacturer. The make and	Fuel injection throttle bodies and nozzles must be the
	model of the fuel metering and/or fuel distribution unit	same as originally supplied by the manufacturer. The
	must remain the same. The intake manifold cannot be	make and model of the fuel metering and/or fuel
	modified.	distribution unit must remain the same. The intake
		manifold cannot be modified.
OTHER	All other items of car preparation must meet the regular	All other items of car preparation must meet the regular
	rules of VSCDA Car Preparation and period GCR.	rules of VSCDA Car Preparation and period GCR.

When these Rules differ in some way from period Regulations, the VSCDA Rules shall prevail. Cars prepared to this specification can qualify for the Era (EC) Medallion by faithfully meeting all VSCDA rules.

## **MODPreparation**

Race Group 2 (Classes MOD-1 and MOD-2) Race Group 8 (Classes MOD-1 and MOD-2)

This table covers Mod-1 and Mod-2 exceptions to Period SCCA Preparation. <u>Allotherpreparationitemsarethe</u> sameastheSCCAPeriodPreparation.

ITEM	RACEGROUPS2&8	RACEGROUPS2&8
	<u>MOD-1</u>	<u>MOD-2</u>
Source of Regulation	SCCA 1965 General Competition Rules	SCCA 1965 General Competition Rules
	FIA Appendix J. 274. Group 3, (b)	FIA Appendix J. 275. Group 4, (a) (b)
MINIMUM WEIGHT	Weight on PCS or Recognition form minus 10%	Weight on PCS or Recognition form minus 15%
DISPLACEMENT	Maximum overbore 0.060", standard stroke	Maximum overbore 0.060", standard stroke
SUSPENSION	Must be production rear axle assembly, suspension members and mounting points.	Rear axle assembly may be changed to another component of a similar type which was in production prior to 1973.
	Rear lever type shocks may be changed to telescopic but the number of shocks may not change and remote reservoir shocks are not allowed.	Front/rear lever type shocks may be changed to telescopic but the number of shocks may not change and remote reservoir shocks are not allowed.
	Coil over springs are not allowed unless originally used in production.	Coil over springs are not allowed unless originally used in production.
	Anti-sway bars, torque arms, panhard rods and other similar axle locating devices free.	Anti-sway bars, torque arms, panhard rods and other similar axle locating devices free.
BRAKES	Brakes are free when mounted in the standard location and composed of components available before 1973. Disc brakes may replace drum brakes.	Brakes are free when mounted in the standard location and composed of components available before 1973.  Disc brakes may replace drum brakes.
	Rotors that are drilled, slotted or ventilated are not allowed unless originally used in production.	Rotors that are drilled, slotted or ventilated are not allowed unless originally used in production.
	Aluminum calipers may not replace iron calipers unless the caliper was available before 1973.	Aluminum calipers may not replace iron calipers unless the caliper was available before 1973.
INDUCTION SYSTEM	Original carburetors may be replaced as long as the same number of throats are maintained (example two SU's replaced with two larger SU's or a Weber).	Original carburetors may be replaced with different carburetors and more throats. (example two SU's replaced with two Webers)
	Fuel injection throttle bodies must be the same type, same location and same duct dimensions. The number and location of the injection nozzles must be the same. The make and model of the fuel metering and/or fuel distribution unit must remain the same. Material cannot be added to the intake manifold.	Fuel injection throttle body dimensions may be increased, but the type and location must be the same. The location of the injection nozzles, type of fuel metering and distribution must remain the same. Material cannot be added to the intake manifold extending into the head.
OTHER	All other items of Mod – 1 car preparation must meet the regular rules of VSCDA car preparation, except for the differences described above.	All other items of Mod – 2 car preparation must meet the regular rules of VSCDA car preparation, except for the differences described above.

When these Rules differ in some way from period regulations, the VSCDA Rules shall prevail. All MOD-1 and Mod-2 class cars shall carry visible MODdecals on both sides of the car when racing. One set of decals will initially be provided at VSCDA Tech. Subsequent decals will not normally be free of charge.

#### 2. Race Group 6 (Supplemental Rules)

Cars in Race Group 6 are production sports cars and sedans that are expected to be prepared to the 1969 SCCA GCR's with the current VSCDA requirements applied. Sportscars should meet the ProductionCategoryRegulationsandSpecifications and Sedans should meet the A-SedanCategoryRegulationsandSpecifications (or Trans-Am when the make and model of the car was recognized and homologated to race in the Trans-Am series). There can be no mixing of rules between Sedan and Trans-Am. The 1969 GCR is on the web at

http://www.sovren.org/competition/rules/gcr/HTML%20gcr 69.html. Production Car Specification (PCS) sheets are at

http:/www.sovren.org/competition/rules/pcs/PCS69%20Index.html.

Weight, engine displacement and brakes specifications can be found in the table "GCR Car Specifications" on the VSCDA website at (http://www.vscda.org) under, race, rules

<u>ThefollowinglistcoversimportantrequirementswhichVSCDAexpresslyfocusesattentionon. Carsarealsoexpectedto meetall otherSCCAperiodrequirementsunlessexpresslycoveredbyexceptionslistedinthisdocumentintheVSCDAGeneralRules and "CarSpecific Exceptions" Item8</u>

#### **Engine Displacement**

You are expected to declare accurate engine bore and stroke for the point in time of preparation on your entry form and Car Preparation Sheet. Bore may be increased 0.060" (1.5 mm), and stroke must remain standard.

#### **Brakes**

The brakes should be of original production type. The friction material is free.

The cooling of brakes is allowed by the ventilation of backing plates or fitting of air ducts provided no changes are made in the bodywork. Disk brake dust shields may be altered or removed. Front mounted ducting shall not extend to the side, beyond the centerlines of the front wheels, and no more than three (3) inches below the lowest part of the original front body panel, nor above a plane passing through the wheel hub centerlines, nor forward of the forward part of the front body panel. Rear brake ducts must extend in a forward directions only, and shall extend only a maximum of 24 inches from the rear brake disc/drums.

#### Weight

Cars are expected to meet or exceed the minimum weight specified, without driver, as they come off the race circuit at the conclusion of a race or qualifying session. Ballast may be added to cars as required provided it serves no other purpose and is securely mounted within the body work (with a minimum of 3/8" grade 5 bolts per 50 pounds)

#### **Engine Heads**

Original equipment heads from the factory, and some faithful aftermarket reproductions are allowed. The head must be of the original material. Raised port heads are not permitted. Different valve stem angles as related to the center line of the cylinder bore are not permitted. This allows period style aftermarket heads from Ford, GM and Chrysler Motorsports, Dart and World Products, but specifically is not intended to allow post 1972 technology to be incorporated into heads used in Race group 6. Heads should have the same spec. or as close as possible, to the year of actual make/model manufacture.

#### Rocker Arms

Roller rockers are permitted.

#### Camshaft and Followers

Any camshaft may be used. Although not period correct, roller cam followers will be allowed because of recent oil formulation changes which have resulted in flat tappet failures (reference VSCDA Car Prep Bulletin 4).

#### **Engine Intake Manifold**

Period intake manifolds are allowed which were either factory equipment options for the year manufacture, or for the year of car preparation. VSCDA may require the car owner or driver to lift the carburetor at any time so the manifold runner construction can be inspected.

Substitution of the original homologated factory intake manifold is only permitted under the following conditions which are intended to mirror period performance. The intake manifold must be dual plane for V-8 engines unless it can be shown the original manifold was single plane. Edelbrock performer RPM manifolds are permitted for some cars (no Air-Gap types) of the part numbers listed in the VSCDA Aftermarket Manifold List. Other manifolds raced in era are permitted when they can be documented as raced for the car make/model and class, and are approved by VSCDA.

Edelbrock"PerformerRPM"Number

7161 and 7164

7156

#### Approved Aftermarket Manifold List

#### Shelby Cobra 260/289 7121 Shelby Cobra 427/428 7105 Shelby GT350/GT500 7121/7105 Ford Falcon, Mercury Comet 260/289 7121 Ford Mustang 289/302/351 7121 Mercury Cougar 289/302 7121 Chevrolet Camero 302 7101 Chevrolet Corvette 265/283/327/350 7101 and 7104 Chevrolet Corvette 396 7161 and 7164 Chevrolet Corvette 427 7163

Chevrolet Corvette 454

Pontiac Firebird 326/400

Pontiac Firebird (other displacement)

No substitute manifolds are approved

AMC AMX / Javelin 290/401 2131

#### Ignition System

Carandengine

Electronic ignitions triggered from the distributor are allowed. The make of the distributor is free, provided installation does not require any modifications to the engine. Crankshaft triggering is specifically prohibited.

#### Transmission

Stock or heavy duty transmissions such as the Super T10 are allowed without penalty. The Jerico and TexRacing T101 transmission are allowed with a 150 pound weight addition. The number of forward and reverse gears may not be changed. Reverse must be operational. Five speed transmissions are not allowed unless production. All transmissions must have a gear ratio in 1<sup>st</sup> gear which is numerically equal to, or greater than, 2.20/1 (this is the gear ratio that was used for 1<sup>st</sup> gear in the "close ratio" gear sets" of the Muncie, T-10 and period correct Fords).

#### Suspension

Original suspension pick-up points should be retained. Alternative springs and suspension bushings (of the same type and size) are permitted. Bushings can be a different material, and offset bushings are allowed. The make and model of the shock absorber may be changed. No coil-over springs or remote reservoir shocks are allowed (unless originally homologated).

Note: When the rules listed above differ in some way from period regulations, The VSCDA Rules shallprevail.

VSCDA has a provision which allows some cars to be prepared to other period regulations as described in Item 9 of this section.

## 3. Race Group 3—Sports Racers (Supplemental Rules)

These cars are closed wheel sports racers which are prepared to the SCCA standards that were in effect during the eligibility period, and not more than five years after the date of manufacture. The cars must have full width treaded racing tires or approved street tires with a suitable speed rating. The tires must be of an appropriate size and aspect ratio for the era of eligibility. Cars in this group are not allowed to have wings or down force.

## 4. Race Group 4 and 7 – Monoposto (Supplemental Rules)

Open wheel race cars follow the U.S. Monoposto Racing Rules which can be found on the web at http://www.momoposto.com/

## 5. Race Group 5 – FIA< WMC and Prototypes (Supplemental Rules)

These cars are closed wheel, normally sports racers which are prepared to the standards which were used in the "series the car raced in." Most of these cars have wings and down force, and the tires are slicks.

#### 6. Sports 2000 Race Group (Supplemental Rules)

Sports 2000 race cars follow the Rules of the North American Chapter Sports 2000 Racing Car Club which can be found on the web at <a href="http://www.nac-srcc.com/index.htm/">http://www.nac-srcc.com/index.htm/</a>. All S2000's conforming to the SRCC regulations of classes B and H are welcome at events when S2000 racing is scheduled.

#### 7. Exhibition Group Cars (Supplemental Rules)

Exhibition eligibility and standards will be defined for events when and exhibition group is scheduled. Unless specifically addressed it is always expected that exhibition cars meet "VSCDA Technical Requirements for Race Cars" sections Safety, Equipment and Preparation (which are in the front section of this document).

## 8. Car Specific Exceptions

**Austin Healey** 

<u>Sprite</u> – ALL Austin Healey Sprites and MG Midgets are allowed to use the 1275 cc engine, Bugeye Sprites included. However any Bugeye running the larger engine (more than 948cc) cannot qualify for the Era Correct Medallion.

Austin, Morris

Mini – All models are eligible to run appropriate production classes with carburetors as originally supplied by the manufacturer, or alternately with one Weber DCOE per FIA Homologation for Group 2.

Triumph

<u>TR-2,TR-3,TR-4</u> It is recommended to replace or modify the standard rear axles to be a floater type design. <u>GT-6</u> — The standard rear axles may be modified to eliminate Roto — flex couplings and the outer axle nut design.

Volvo

444, 544, 122, P444, 123GT,140 series, 1800 – It is recommended to replace or modify early standard rear axles with either a floater type axle design or with the Volvo solution (which was a different axle with disc brakes) which is allowed in FIA Recognition Form 5313 (2/2V GrII).

## 9. Production Based Sports Cars "Raced as a "Sports Racer"

Vintage or Historic "production based SCCA cars" are eligible to be certified by VSCDA to run as a "sports racing car" if the specificar has a documented history of having raced in such classes in period, and with such modifications, and if the car meets the

appropriate SCCA or FIA period regulations. Owners must provide documentation authenticating the car's preparation history. Street cars and production racing cars which have been modified in the current era will not be eligible to run as a "sports racing car". In no case shall a car accepted under this rule have modifications which were not available in the period.

#### 10. Preparation to Other Competition Rules (Race Groups 2, 6 and 8)

VSCDA welcomes cars which are faithfully prepared to other relevant General Competition Rules (GCR's) in effect up up to 5 years after the date of the car's manufacture but not later than December 31, 1972. The possibilities include different year SCCA GCR's, FIA, IMSA and possible other rules which are appropriate.

VSCDA will place approved cars in appropriate race classes, depending on performance. Approved cars can qualify for the Era Correct Medallion.

For more information about this option, please contact the Car Preparation Steward. Requests should be submitted no less than 60 days in advance of the first race.

## 11. Qualification for VSCDA "ERA CORRECT" Medallion (Race Groups 1, 2, 6 and 8)

Production based race cars qualify for the VSCDA Era Correct (EC) Medallion decal when preparation faithfully to an appropriate period GCR.

Interpretation will be determined by VSCDA concerning the primary specifications and components of the car which need to be period correct to qualify. These will include weight, engine model, engine displacement, transmission, brakes, shock absorbers, induction system, body work and overall appearance.

If you believe your car qualifies, please notify the Car Preparation Steward and provide such documentation as necessary to show period preparation. Schedule a time for inspection at one of the future race events and then have the car weighed on the VSCDA Seals. Bring a copy of the weight ticket to the inspection.

## 12. Eligibilty of Replica and Continuation Cars

These cars are not normally accepted for racing at VSACDA events. However a high quality car may be accepted to promote the sights and sound of vintage and historic racing. VSCDA will consider cars when owners request eligibility and fully documents the specifications. The "Replica Car Policy and Approval Form" is located on the website in the Tech and Car Preparation section.

Updated 2/2020