



2019 EDITION

**PHA SUPPLEMENTARY
REGULATIONS**

To the SCCA Time Trial
and Hillclimb Rules

January, 2019

(Revisions are underlined)

Pennsylvania Hillclimb Association
www.pahillclimb.org



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FOREWORD

These Supplementary Regulations (SUPPS) are intended to assist in the orderly conduct of race events and to further participant and spectator safety. They are a guide and are in no way a guarantee against injury or death to participants, spectators, or others. No express or implied warranties of safety or fitness for a particular purpose shall be intended or result from publication of or compliance with these rules.

It is hoped that the layout of the SUPPS will be of benefit to users. It must be remembered however, that the SUPPS is a reference book, and not a novel. To find the answer, the reader must first know the question. The index will help, but the Table of Contents will give a good idea of the general layout.

Participants that are new to the SCCA Time Trials program are strongly encouraged to read Section 3 first as it contains a summary of the critical points helpful in guiding a new participant.

Effective January 1st, of each year, all editions of the Supplementary Regulations are superseded by the following Supplementary Regulations.

All dimensions are in inches unless otherwise noted.

The masculine pronouns he, him, his will be used generically, without actual reference to gender.

In all societies where men compete with one another - and in which societies, pray, do they not? - there must be laws to regulate that competition. The extent to which that competition is carried, whether by intensity or sophistication, determines the degree of complexity of the necessary laws; and the extent to which those laws are willingly accepted determines, no less, the degree of civilization of that society.

Translated from Thales of Miletus, c 600 BC.

1 INTRODUCTION

These rules shall govern any event that is operated by the PHA as a Time Trials event.

1.1 USING THE SUPPLEMENTARY REGULATIONS

Any rules found in the SUPPS shall take precedence over the SCCA's General Competition Rules (GCR) and/or Solo Rules at Time Trial/Hillclimb events. The SUPPS are intended to expand upon the SCCA Time Trial Rules and the Hillclimb Rules.

For specifications for particular classes or automobiles, please refer to the following:

For any SCCA Club Racing Class, refer to the current GCR Specification Books.

For any Solo class, refer to the Solo rules.

For any other class, refer to the Supplementary Regulations of a particular event or series.

Note: Please remember that in areas where the Supplementary Regulations conflict with other preparation rules, the Supplementary Regulations take precedence. All safety items discussed in the Supplementary Regulations are specified as the minimum, and preparation may exceed these rules if class rules allow.

1. IF CIRCUMSTANCES CREATE A SITUATION WHERE A RULE CLARIFICATION OR CHANGE IS FOUND NECESSARY TO BE IMPLEMENTED IMMEDIATELY, THE PHA BOARD MAY ISSUE A MEMORANDUM STATING THE CHANGE AND ITS EFFECTIVE DATE. THOSE MEMORANDUMS WILL BE POSTED ON THE PHA WEBSITE. EFFECTIVE ON JANUARY 1ST OF EACH YEAR, ALL PREVIOUS EDITIONS OF THE SUPPS WILL BE SUPERSEDED BY THE CURRENT EDITION.

2. INTERPRETATION AND APPLICATION OF THE SUPPS:

The SUPPS shall not be given a strained or tortured interpretation and shall be applied in a logical manner, keeping in mind that it cannot specifically cover all possible situations. The word "shall" (either positive "shall" or negative "shall not") is mandatory. The word "may" is permissive. If there is a conflict between the SUPPS and a Specification Book (PCS, GTCS, TCS, SSS, ITCS, SRCS, FCS) the Supplementary Regulations has precedence over the Specification Book. If an item is not addressed in the Specification Book, then the item is controlled by the SUPPS.

The interpretation and application of the Supplementary Regulations by SCCA officials shall be final and binding. In order to promote the sport of automobile competition, to achieve prompt finality in competition results, and in consideration of the numerous benefits to them, all members, including competitors and officials, expressly agree that:

1. DETERMINATIONS BY SCCA OFFICIALS ARE NON-LITIGABLE;
2. THEY WILL NOT INITIATE OR MAINTAIN LITIGATION OF ANY KIND AGAINST SCCA OR ANYONE ACTING ON BEHALF OF SCCA TO REVERSE OR MODIFY SUCH DETERMINATIONS, OR SEEK TO RECOVER DAMAGES OR OTHER RELIEF ALLEGEDLY INCURRED OR REQUIRED AS A RESULT OF SUCH DETERMINATION; AND
3. IF A MEMBER, COMPETITOR, OR OFFICIAL INITIATES OR MAINTAINS LITIGATION IN VIOLATION OF THIS PROVISION, THAT MEMBER, COMPETITOR, OR OFFICIAL AGREES TO REIMBURSE SCCA FOR ALL COSTS OF SUCH LITIGATION, INCLUDING TRAVEL EXPENSES AND ATTORNEYS' FEES.

1.2. RESERVATION OF RIGHTS

SCCA is a private, not for profit organization. It reserves the right to deny the issuance of any license, or to revoke any license previously issued, for any reason or no reason, except that it will not deny or revoke a license solely on the basis of race, creed, color, sex, or national origin.

2 TERMINOLOGY

The following nomenclature, definitions, and abbreviations shall be used in the SUPPS, all Supplemental Regulations and Entry Forms, and for general use.

2.1. SCCA (SPORTS CAR CLUB OF AMERICA, INC.)

A not-for-profit organization, incorporated within the state of Connecticut, dedicated to the ownership, operation, and preservation of sports cars, and the arrangement and regulation of sports car events and exhibitions, the encouragement of safe and sportsmanlike conduct on public highways, and the development of technical information relevant to any of these purposes. The SCCA is delegated the authority to sanction FIA listed events by ACCUS FIA. The address of SCCA is:

Sports Car Club of America, Inc.
 Experiential Programs
 6620 SE Dwight St
 Topeka, Kansas 66619
 (800) 770-2055
 www.scca.com

2.2 TIME TRIALS BOARD (TTB)

The TTB shall consist of a total of 3-4 SCCA members selected by the Director of Experiential Programs and approved by the Board of Directors who operate with a strategic view of the time trial program. Responsibilities include the promotion, marketing and growth for the TT programs and the implementation of proposed rule changes for all levels of time trial events. All proposed rule language is to be developed and approved by the TTB and the Director of Experiential Programs before submission to the Board of Directors. TTB members are tasked to explore the development of a National Time Trial Competition Program. The exploration process should address the formation of a national rules package (kept separate from divisional TT rules), the web presence, and the marketing required for implementation. If and when a national program is accepted, this committee would oversee the implementation of the program.

2.3 TT DIVISIONAL ADMINISTRATOR

The individual designated by the Division to supervise and administer SCCA policies and standards for designated classes of events and to train SCCA Stewards within each Division and who coordinates with the DTTC Representative(s). The TT Divisional Administrator has authority to approve Time Trials Officials Licenses and upgrades for TT Driver Licenses. Term of office is three years.

2.4 TIME TRIALS SAFETY COUNCIL

The purpose of the Time Trials Safety Council (TTSC) shall be to advise the DTTC on matters of safety. This council shall be made up of representatives from Divisions which have active Time Trials programs by the TT Safety Steward of the Division.

2.5 TT SAFETY STEWARD OF THE DIVISION

The individual selected by the Division to supervise events to insure adherence to all SCCA safety rules and guidelines, to train SCCA TT Safety Stewards within each Division and coordinates with the TT Divisional Administrator and DTTC Representative(s). Term of office is three years.

2.6 CAR (AUTOMOBILE)

A self-propelled land vehicle running on four wheels, not in a line, which shall be in contact with the ground. At least two (2) wheels shall affect the steering and at least two (2) the propulsion.

2.7 CLASS

A group of cars, classified according to the provisions of the SUPPS.

2.8 CATEGORY

A combination of similar classes of cars.

2.9 COMPETITION

A contest in which a car takes part and which is of a competitive nature or is given a competitive nature by publication of results. Practice and qualifying for starting positions are included in the term "competition". A competition may also be referred to as a "race".

2.10 EVENT

An entire program of competitions.

2.11 SPEED EVENT

Competition in which more than one car is on the course at a time, vehicles are driven at maximum speeds, and a high level of driver and vehicle safety equipment is essential.

2.12 NON SPEED EVENT

An event in which the hazards do not exceed those encountered in legal travel on public roads, and which therefore do not require drivers to hold Competition Licenses.

2.13 SANCTION

The documentary authority, granted by the SCCA, to organize and hold a competition.

2.14. DRIVER

A person named as the driver of a car in any Time Trials Event. Also, any person who drives a race car in any Time Trials Event whether or not properly registered, entered, or named as the driver.

2.15. ENTRANT

A person whose entry is accepted for any Time Trials Event. The signature on an entry form and the membership number shall be that of an individual SCCA member.

2.16. PARTICIPANT

Any person signing an SCCA Participant Agreement (waiver of liability) including all organizers, entrants, drivers, crew, officials, members, workers, and all guests of the above, and any SCCA member in attendance is a participant.

3 TIME TRIALS EVENTS

The Time Trials Program is divided into four levels of events. Only the 3rd and 4th levels are described in the SUPPS.

3.3. TIME TRIAL

Time Trial events are based on competition and utilize fixed racing circuits (approved by the National Office) and other temporary courses (airports, large lots, etc.). Care should be taken to offer some basic instruction for novice drivers.

3.3.1. COURSES

Courses for Time Trial events should be chosen as to provide a safe and fun environment in which to compete. Tracks should be chosen that reward proper car handling. It is not recommended that Cones or other items be used to create false obstacles to slow cars down that are at speed.

- A. COURSE MAPS SHOULD BE AVAILABLE TO ALL PARTICIPANTS AND OFFICIALS, AND SHOULD BE MARKED TO INDICATE
 1. Passing Zones (if used) must be clearly labeled
 2. Any cones or temporary barriers
 3. Pit location along with pit in and out
 4. Flag and observation stations
- B. FLAG STATIONS AND OBSERVATION POINTS MUST BE PLACED AS TO PROVIDE COMPLETE, CONTINUOUS COVERAGE OF ALL PARTS OF THE COURSE (OVERLAPPING COVERAGE IS RECOMMENDED). THEY MUST BE MANNED BY AT LEAST ONE PERSON. ALL STATIONS MUST BE PROVIDED WITH A METHOD OF COMMUNICATION TO THE CHIEF STEWARD AT ALL TIMES.

3.3.2 INSTRUCTION

Time Trial events should provide some instruction in driving techniques if required or requested. If the event does not allow Novices, this section is waived. The following rules shall apply to instructors and instruction practices:

- A. The Chief Driving Instructor must be an SCCA member. This person shall hold a Time Trials Driving Instructor license, and should have experience in Driving Instruction in some form. It is suggested that the Chief Driving Instructor not be assigned students so that he may oversee the event instruction as a whole.
- B. It is recommended that Driver Observers be used at various parts of the course to observe all Novice drivers. Corner Station personnel may be used for this purpose, so long as they are informed of their responsibility and agree to act in such a capacity.
- C. TT Novice Permits must be collected at Registration. They will be available from the TT Chief Steward (or designee) at the end of the event.

3.3.3 DRIVER REQUIREMENTS AND RESPONSIBILITIES

Drivers are required to:

- A. Have a current SCCA membership.
- B. Have a valid, state issued full privilege driver's license.
- C. Present a TT License or Novice Permit, Club Racing Competition License, Club Racing Novice Competition Permits, or competition licenses recognized by the SCCA at events. All TT Novices must present their Novice Permit at registration and it will be returned with any notations at the end of the event. Drivers with Time Trials Competition Licenses or higher must present their SCCA membership and license at registration.
- D. Dress appropriately. Protective apparel must meet the specifications set forth in SUPPS Section 10.20.
- E. Drive a vehicle which meets the inspection required in SUPPS Section 9. Proof of current Annual Tech Inspection in Time Trials or Club Racing shall meet these requirements. Roll bar requirements are listed in SUPPS Section 11.
- F. Immediately return to the pits if directed to by flaggers or other Officials.
- G. Follow all event rules as listed in the Supplementary Regulations for the event.
- H. Refrain from passing unless given a point-by in a designated passing area. The overtaking car is responsible for safely moving around the car being overtaken after being given a point by.
- I. Be aware of other drivers and use point-by techniques to yield to faster cars (if used). The car being overtaken shall hold their position while being passed.

3.3.4. OFFICIALS AND WORKERS

The following Officials and Workers are required at events as a minimum.

- A. Operating Officials required are TT Chief Steward, TT Chief Driving Instructor, TT Chief Technical and Safety Inspector, and TT Safety Steward. Each of these officials must be a current SCCA member and hold a valid TT license in that specialty. Standard grade licenses are the minimum required for each of these Officials. Any substitution of officials shall be coordinated with the Chief Steward and other officials.
- B. Workers to man each flag or observation station. There should also be at least one pit worker (in addition to a flagger if present at the pits) to direct drivers on course and communicate with drivers in the pits. Drivers may be used to man these stations when not on track.

3.3.5. GENERAL EVENT GUIDELINES

All event rules should be reviewed with all participants at the beginning of each day of the event.

- A. Any flags or other communication signals for drivers should be reviewed before any track time commences.
- B. Run groups should be separated by potential vehicle performance. In the case where open wheeled cars are permitted to run, they shall NOT be on track with any closed-wheel vehicles other than Sports Racer type cars. Exceptions to this may be made by agreement of both the TT Safety Steward and TT Chief Steward.
- C. If pylons are used, some form of penalty may be used if a competitor displaces a pylon. In this case, pylon position must be clearly marked, typically with a wide, light-colored line that outlines the base.
- D. If passing zones are used, they should be clearly marked to be discernable at speed. Passing procedures should be clearly detailed in the Supplementary Regulations for the event or series.
- E. Items such as schedule, session procedures, and work requirements are at the discretion of the Region holding the event, and shall be listed in the Supplementary Regulations.

All Time Trial events must be sanctioned in accordance with the current Club Racing Event Sanction Form. Sanction forms are submitted directly (accompanied by the appropriate fees and a copy sent to the TT Divisional Program Manager) to the Club Racing Manager at the National Office, who will then notify the Region of approval.

3.4. HILLCLIMB

Hillclimb events are based on competition on courses that are not suitable for Time Trials and Club Trials events. These may include hill climbs, or other events on approved courses. Care should be taken to offer some basic instruction for novice drivers.

3.4.1. COURSES

Courses for Hillclimb events should be composed as to provide for safety in spite of possible hazards. Every reasonable effort should be taken to eliminate or reduce hazards if they are present, but competitors should be aware that Hillclimb events may present hazards that exceed those found at Time Trials events. Cones or other items are not being used to create false obstacles under any circumstances. Contact the Club Racing Manager at the SCCA National Office regarding any questions on Hillclimb courses.

- A. COURSE MAPS SHOULD BE AVAILABLE TO ALL PARTICIPANTS AND OFFICIALS, AND SHOULD BE MARKED TO INDICATE PIT LOCATION ALONG WITH PIT IN AND OUT (IF USED), FLAG AND OBSERVATION STATIONS AND FINISH SHUTDOWN AREAS.
- B. FLAG STATIONS AND OBSERVATION POINTS MUST BE PLACED AS TO PROVIDE COMPLETE, CONTINUOUS COVERAGE OF ALL PARTS OF THE COURSE (ALL PARTS OF THE COURSE SHOULD BE VIEWABLE FROM ONE OR MORE CORNER STATIONS). THEY MUST BE MANNED BY AT LEAST ONE PERSON. ALL STATIONS MUST BE PROVIDED WITH A METHOD OF COMMUNICATION TO THE CHIEF STEWARD AT ALL TIMES.

3.4.2. INSTRUCTION

Hillclimb events should provide some instruction in driving techniques if required or requested. If the event does not allow Novices, this section is waived. The following rules shall apply to instructors and instruction practices:

- A. The Chief Driving Instructor must be an SCCA member. This person shall hold a Time Trials Competition license or higher, and should have experience in Driving Instruction in some form.
- B. It is recommended that Driver Observers be used at various parts of the course to observe all Novice drivers. Corner Station personnel may be used for this purpose, so long as they are informed of their responsibility and agree to act in such a capacity.
- C. TT Novice Permits must be collected at Registration. They will be available from the TT Chief Steward (or designee) at the end of the event.

3.4.3. DRIVER REQUIREMENTS AND

RESPONSIBILITIES Drivers are required to:

- A. Have a current SCCA membership.
- B. Have a valid, state issued, full privilege driver's license.
- C. Present a TT License or Novice Permit, Club Racing Competition License, Club Racing Novice Competition Permits, or competition licenses recognized by the SCCA at events. All TT Novices must present their Novice Permit at registration and it will be returned with any notations at the end of the event. Drivers with Time Trials Competition Licenses or higher must present their SCCA membership and license at registration.
- D. Dress appropriately. Protective apparel must meet the specifications set forth in SUPPS Section 9.20.
- E. Drive a vehicle which meets the inspection required in SUPPS Section 8. Proof of current Annual Tech Inspection in Time Trials or Club Racing shall meet these requirements. Roll bar requirements are listed in SUPPS Section 10.
- F. Immediately return to the pits if directed to by flaggers or other Officials.
- G. Follow all event rules as listed in the Supplementary Regulations for the event.

3.4.4. OFFICIALS AND WORKERS

The following Officials and Workers are required at events as a minimum.

- A. Operating Officials required are TT Chief Steward, TT Chief Driving Instructor (waived if the event is restricted to not include Novices), TT Chief Technical and Safety Inspector, and TT Safety Steward. Each of these officials must be a current SCCA member and hold a valid TT license in that specialty. Official grade licenses are the minimum required for each of these Officials. Any substitution of officials shall be coordinated with the Chief Steward and other officials.
- B. Workers to man each flag or observation station. There should also be at least one pit worker (in addition to a flagger if present at the pits) to direct drivers on course and communicate with drivers in the pits.

3.4.5. GENERAL EVENT GUIDELINES

All event rules should be reviewed with all participants at the beginning of each day of the event.

- A. Any flags or other communication signals for drivers should be reviewed before any track time commences.
- B. Run groups should be separated by potential vehicle performance. In the case where open wheeled cars are permitted to run, they shall NOT be on track with any closed-wheel vehicles other than Sports Racer type cars.
- C. Items such as schedule, session procedures, and work requirements are at the discretion of the Region holding the event, and shall be listed in the Supplementary Regulations.
- D. All Hillclimb events must be sanctioned in accordance with the current Club Racing Event Sanction Form. Sanction forms are submitted directly (accompanied by the appropriate fees and a copy sent to the TT Divisional Program Manager) to the Club Racing Manager at the National Office, who will then notify the Region of approval.

4 EVENT PROCEDURES

The following standards apply to all Time Trials events.

4.1. PIT AND PADDOCK RULES

For the purposes of Time Trials events, the terms Pit and Paddock shall be interchangeable, and shall be defined as the area reserved for the parking of or working on participating automobiles. At Time Trials events, these areas shall be defined as “cold” areas, and as such, be open to spectators (if applicable) unless otherwise restricted in the Supplemental Regulations for an event. No alcoholic beverages are permitted in the pit area during hours of competition. Failure to comply will result in disqualification.

4.1.1. WORK ON VEHICLES

The following rules apply to working on vehicles in the Pit/Paddock:

- A. Cars shall not be run in gear with the drive wheels off the ground.
- B. Jack stands must be used whenever any person is under any part of a lifted vehicle.
- C. All vehicles must be securely held in place via chock, stand, or other positive method whenever the driver is not seated in the driver's seat.
- D. Any compressed gas cylinders with pressures above 200 psi must have a cage or similar device to protect the valve/regulator/gauge assembly when rigged for use.

4.1.2. OTHER ACTIVITIES

- A. No motorized vehicle may be operated by anyone not holding a valid state-issued driver's license before, during and after the event.
- B. Any pets must be securely fastened to a leash or chain not to exceed 20 feet. This leash or chain must be securely held by a stationary object or must be controlled by an adult at all times.
- C. All minors shall be under adult supervision at all times.
- D. No person may ride on the external bodywork of any vehicle in the Pit/Paddock.
- E. All drivers are expected to display patience and courtesy. Cars will return to the pits on the racecourse and must slow down when exiting the racecourse into the pits.
- F. BE AWARE AT ALL TIMES FOR FOOT TRAFFIC IN THE PITS.

4.2. GRID RULES

Grid shall be defined as the area where vehicles are staged and readied for the start. This area shall be a “hot” area by definition and personnel access shall be restricted as such.

1. GRID SHALL BE RESTRICTED TO ONLY THOSE VEHICLES WHICH ARE BEING READIED TO START.
2. NO VEHICLE SHALL CARRY PASSENGERS ON THE GRID.
3. NO TIRE-WARMERS ARE PERMITTED ON GRID.
4. VEHICLES ON GRID MAY NOT BE JACKED OR LIFTED WITHOUT SPECIFIC PERMISSION FROM THE CHIEF STEWARD.
5. NO AUTOMOBILE MAY BE PUSH-STARTED ON GRID WITHOUT SPECIFIC PERMISSION FROM THE CHIEF OF GRID.

4.3. THE START

The flying start shall be the standard in all Time Trials events. It is recommended that the flying start even be used at Hillclimb events, where the start timer is triggered once the car is already in motion. LeMans starts are forbidden in all cases.

The warm-up lap (if used) shall start from re-entry. Single lap timed runs shall be started at the end of the specified warm-up lap with a waving green flag and end with a checkered flag. Continuous lap timed runs shall be started at the end of the specified warm-up lap with a waving green flag. A standing green flag shall indicate the start of the following timed runs. A checkered flag shall indicate the end of the last timed run. If more than two consecutive timed runs are allowed, the starter should indicate, along with the standing green flag, the number of the lap being started. If timing fails to record the start or end of a timed run, additional green flags may be given to allow the driver to continue. However, the driver may elect to pit and take a later rerun. Cool-down laps may be used only if necessary (due to course configuration or position of timing).

Standard Start (practice)

One or more no passing yellow flags or other indication should be given at the beginning of each practice session. This procedure is highly recommended for the first session of each run group on each day of an event.

4.3.1. STARTER

For hillclimb and acceleration runs a driver shall be considered as having started if he crosses the control line at the start.

For time trials at tracks (or other courses where laps are used), once a car enters the course, that run is considered started, even though the starting line may not have been crossed.

4.3.2. FALSE START

A false start occurs when the driver crosses the timing line at the start before being instructed to do so by the starter or by a visual starting indicator, or enters the course before being instructed to do so. The penalty for a false start shall be a "Did Not Finish" (DNF).

4.4. TIMING AND SCORING

It is highly recommended that timing in all SCCA-sanctioned Time Trials Events be at least 1/100 second intervals. Electrical timing devices backed by two independent timing devices are highly recommended. Automatically actuated timers are recommended as the primary means of timing.

4.4.1 AWARDS

Awards shall be based on the single best recorded run. 1st through 3rd event plates will be awarded for 1st through 3rd place in each class; all other entrants will receive an event participant plate.

4.4.2 TIES

In the case of tied times for FTD or class awards the tied drivers may be afforded an additional run to break the tie, the second fastest run will be used to break the tie.

4.4.3. RERUNS

Reruns shall not be given due to vehicle mechanical failure; however, during continuous timed runs, if the driver raises his hand before the start line, he shall not be counted as having started that timed run and may complete his remaining timed runs on a rerun.

4.4.4. PROVISIONAL RESULTS

Provisional results shall be made available to drivers as soon as possible.

4.4.5. FINISHER

To be considered a finisher, a car must receive a time that can be used in scoring and complete the course under its own power.

4.4.6. MINIMUM NUMBER OF RUNS

Each contestant will receive a minimum of the opportunity for two timed runs.

4.4.7. WINNER

The winner shall be the competitor who covers the prescribed distance of the competition in the least time, subject to penalties for course deviations or displacement of course markers.

4.5. RULES OF THE ROAD

The following standards apply to all Time Trials events.

4.5.1. DRIVERS' MEETING

There shall be a drivers' meeting each day of the event. Attendance at the Driver's Meeting is mandatory each day, failure to attend may result in the loss of timed runs. At each meeting a Steward must cover at least the following:

- A. The meaning of flag signals and flagging procedures
- B. The location of black flag station (if used) and where to report if black flagged
- C. Any designated passing zones and all passing procedures
- D. Other Rules of the Road, Supplementary Regulations, etc. as necessary
- E. Penalty procedures for violation of rules. Penalties for violation of rules may be disqualification, additional training or schooling, or other appropriate penalties such as the Stewards may devise. Repeated or flagrant violations and illegal passing shall result in disqualification and may result in revocation of the driver's Time Trials license.

4.5.2. EMERGENCY PROCEDURES ON COURSE

Whenever a driver leaves the course on an airport or parking lot course with all four wheels, he must re-enter at the point he left the course. Failure to do so, or shortcutting the course, will result in the run being scored as a DNF.

During an event, it is expressly forbidden to drive or tow a car at any time or under any conditions in a direction opposite to that in which the event is being run without the specific approval of the TT Safety Steward. Infraction of this rule may mean immediate disqualification.

If for any reason a driver is forced to stop his car on the course during an event, it should be his first duty to place his car in such a manner as to cause no danger or obstruction to other competitors.

Drivers may obtain no assistance during the run other than from their pit crews and in the pits. This does not preclude assistance by event officials for safety reasons.

Cars may not be pushed or moved under power of the starting device while on the course, except to remove them from a hazardous position to one of greater safety.

4.5.3. FLAGS

The following flags may be used at Time Trials events:

RED FLAG (SOLID RED)

Displayed at each station and on the Starter's stand – EXTREME DANGER – THE SESSION HAS BEEN STOPPED. Come to an immediate, controlled stop at the side of the race track (preferably before and within sight of a staffed station or where specified in the event Supplemental Regulations). When released by an official, proceed cautiously to the pits. Once a red flag has been displayed, it will not be withdrawn until all cars have come to a stop.

NOTE: THE RED FLAG CAN ONLY BE DISPLAYED BY ORDER OF THE CHIEF STEWARD AS RELAYED THROUGH RACE CONTROL.

GREEN FLAG (SOLID GREEN)

When displayed, the green flag indicates that the course is clear, and the event is underway. The green flag is ordinarily shown only by the Starter.

YELLOW FLAG (SOLID YELLOW)

STANDING YELLOW– Take care, Danger, Slow Down, NO PASSING FROM THE FLAG until past the emergency area.

WAVED– Great Danger, Slow Down, be prepared to stop – NO PASSING FROM THE FLAG until past the emergency area.

NOTE: A driver may encounter several flags before reaching the emergency area. The requirements are still the same: SLOW DOWN, NO PASSING.

BLUE FLAG (BLUE WITH DIAGONAL YELLOW STRIPE)

Another competitor is following very closely or is trying to overtake. This flag may be displayed standing or waving, depending upon the speed differential.

SURFACE CONDITION (YELLOW WITH VERTICAL RED STRIPES)

Take care. A slippery condition exists, or debris is present on the racing surface. This flag is displayed standing.

WHITE FLAG (SOLID WHITE)

Caution and take care for a slow moving race car, ambulance or other emergency vehicle on the racing surface. The standing flag is displayed for 2 flag stations prior to the vehicle in question. In addition, a standing white flag will be displayed during the first lap of each race group's first session of the day to indicate the location of the flagging stations.

BLACK FLAG (SOLID BLACK)

CLOSED BLACK FLAG_(Furled) – Pointed or shaken at an individual car from the Starter's stand (optionally, accompanied by a number board indicating the car number): WARNING for driving in an unsafe and/or improper manner. Continued unsafe and/or improper driving will result in an OPEN BLACK FLAG.

OPEN BLACK_– Displayed from the Starter's stand with a number board indicating the car number: Proceed directly to the pits and the location designated by the Chief Steward or event Supplemental Regulations for consultation with Officials. DO NOT TAKE ANOTHER LAP.

NOTE: This flag and number board may also be displayed at station(s) elsewhere on the course.

OPEN BLACK, DISPLAYED AT ALL STATIONS – The session has been stopped; all cars must stop racing, and proceed directly and immediately to the pits, exercising extreme caution. This flag will be displayed with an 'ALL' sign at the Starter's stand and the sign may also be shown at station(s) elsewhere on the course.

NOTE: THE BLACK FLAG CAN ONLY BE DISPLAYED BY ORDER OF THE CHIEF STEWARD AS RELAYED THROUGH RACE CONTROL.

MECHANICAL BLACK FLAG (BLACK WITH ORANGE BALL)

Displayed from the Starter's stand with a number board indicating the car number. There is a mechanical problem with the car. Proceed directly to your pit or the location designated by the Chief Steward or event Supplemental Regulations. DO NOT TAKE ANOTHER LAP.

NOTE: This flag and number board may also be displayed at station(s) elsewhere on the course.

CHECKERED FLAG (BLACK AND WHITE CHECKS)

Displayed at Finish to indicate that the session is finished. Continue cautiously to the pits.

This flag is optional with the Event Steward and may be replaced by a prominent sign, preferably a banner across the course, indicating the finish line.

MANDATORY SHUT DOWN IS REQUIRED IMMEDIATELY AFTER THE FINISH LINE (except for track events).

4.6. OFFICIAL AND PRACTICE RUNS

- 1 All drivers must be given a reasonable opportunity to start the same number of unobstructed official runs. A run disrupted by display of a red or yellow flag shall normally entitle the driver to a re-run.
- 2 If the timing mechanism fails, the driver shall be red-flagged at the earliest opportunity and provided an opportunity for an additional run as soon as possible. At Time Trials events on closed courses, if the timing mechanism fails, the driver may be allowed to continue without being red-flagged.
- 3 Organizers of Time Trials Events shall not allow cars to make timed runs unless both the car and driver conform fully to all safety requirements applying to such events. This shall not preclude exhibition and touring runs by historic or other vehicles, but such runs shall not be timed and the speeds allowed shall not exceed those that would be legal, reasonable, and prudent if the course were a public highway.
- 4 Competitors may be given instructional tours of the course with the approval and oversight of the Chief Safety Steward, Chief Steward and Chief Driving Instructor. Media or local celebrities may be given access to the course if they are seated in a passenger seat with the appropriate safety gear on, are belted in, and their "tour" of the course is approved in advance by the Safety Steward, Chief Steward and Chief Driving Instructor.

4.7. USE OF ALCOHOLIC BEVERAGES, NARCOTICS, AND DANGEROUS DRUGS - PROHIBITED

- A. No driver, entrant, or crew may consume alcohol until all practice, racing, or track time for his group is finished for the day. No official may consume alcohol until his duties have been completed for the day. Anyone who has consumed any alcohol on the day of an event, other than following the conclusion of his activities, shall not participate on that day, may be excluded from the balance of the event, and may be penalized. Alcohol may not be consumed until after all the days on track activities are concluded.
- B. The use at an event by any participant of any Federal Schedule 1 controlled substance (including marijuana), or other drugs that affect the ability of the participant to safely participate in the event or may otherwise adversely affect the safety or integrity of the event, is specifically prohibited. Certain prescription and non-prescription medicines may also impair performance so competent medical authority should be consulted prior to using such medicines and participating in the event. Any participant who violates this prohibition
 - shall not seek to participate in the event
 - may be excluded from the event by the Chief Steward, Safety Steward, or the Chief of an official's specialty
 - may be removed from the grounds by the order of the Chief Steward or Safety Steward.

As a condition of continued participation and/or retention of any SCCA license, the participant may be required to submit to such testing procedures that may be established by SCCA in its sole discretion. Failure or refusal to submit to such testing shall be deemed a violation of the above prohibitions. However, SCCA assumes no obligation or duty to establish such testing procedures and/or to test participants on a random basis or in a specific case.

4.8 OTHER EVENT PROCEDURES

- a. In car cameras must be securely mounted to the vehicle and will be inspected during the Tech process. Camera mountings deemed unsafe will not be permitted during competition. Camera MUST be mounted at tech for approval.
- b. All drivers, their crew and guests MUST sign the waiver and be issued a credential. Credentials for crew and guests must be displayed at all times.
- c. Current SCCA & PHA stickers must be appropriately displayed.

4.8.1 **DISQUALIFICATIONS:** Any car using any road other than the course to return to the start will automatically be disqualified unless a separate return route had been designated by the event Chief Steward. Any driver found to have received any tickets for traffic violations on the course while it is open to the public, if applicable, will be disqualified. Drivers are also responsible for their service vehicles, any support or service vehicle found racing on any public road or access road during the course of the event will cause his driver to be disqualified. Any driver bringing an unauthorized passenger in his/her competition vehicle from any area of the course will be disqualified.

4.8.2 **RUNNING OF CLASSES:** All entrants must run in their designated groups. (Exceptions for good and sufficient reason will be considered.)

4.8.3 **UNMANNED AIRCRAFT SYSTEMS:** Commercial and private unmanned aircraft systems (aka "drones") are prohibited unless authorized by the Chief Steward.

4.8.4 **PROTESTS:** Any entrant, driver, crew, organizer, official or participant may file a protest. Written protests should be a last resort, used after other less formal efforts have been tried and the protested is not in agreement. The fee for filing a written protest is \$25. In the event of a protest, the Chief Steward shall appoint three individuals to hear, discuss, and rule on the protest. These individuals shall have no material interest in the involved parties or in the outcome of the protest. Other details can be found in Section 8 of the GCR.

While the right to protest in proper cases is undoubted, it should be remembered that PHA events are sporting events to be conducted in a sporting spirit, that all events are organized and managed by amateurs who cheerfully give their time and do their best, that the competitor may expect some imperfections of the organizers and of his fellow competitors, and that, to a reasonable extent, these things are part of the chances he takes in entering the competition.

5 EVENT RULES

5.1. CLASSIFICATION OF EVENTS

Events sanctioned by the SCCA shall be classified according to the persons eligible to take part, the categories of cars eligible to participate, and the awards offered.

5.1.1. SCCA EVENTS

SCCA may grant sanctions to organize various classes of events to be conducted in accordance with the Time Trial Rules (TTR) and Supplementary Regulations. All entrants to all Time Trials Events must be current SCCA members (this includes weekend memberships).

Track Events (previously PDX, and to include TNiA)

These events shall concentrate on the teaching of safe car handling and performance driving techniques, and shall not be competitive events. SCCA licenses are not required for entrants. TT Participation Log Books are highly recommended for use at Time Trials.

Time Trials

These events utilize fixed racing circuits (approved by the National Office) and other temporary courses (airports, large lots, etc.). Safety items are generally similar to Club Racing events, as similar speeds can be achieved. (That is, more safety equipment is required, such as roll bars, harnesses, driver suits, etc.) Novice instruction is used, but the emphasis is on competition. Either a TT Competition license, TT Novice Permit or alternate license (as defined by 7.6) is required.

Hillclimbs

Safety items are generally similar to Club Racing events, as similar speeds can be achieved. Novice instruction is used if novices are permitted to enter. Either a TT Competition license, TT Novice Permit or alternate license (as defined by 7.6) is required, but some events may restrict entry to TT Competition licenses or higher.

Detailed descriptions of each Level of event are available in the respective section of the TT Rules (e.g. Hillclimb Rules).

5.1.2. PRIVATE EVENT DEFINITION

A private event is one where no admission charge of any kind is made. Participants' entry fees or other charges to participants are not admission charges. Attendance at private events shall be limited to the following:

- A. Drivers and entrants, plus a nominal crew, not to exceed a total of six (6), including the driver and entrant.
- B. SCCA members and their guests are required to sign an event waiver.
- C. Any other individual having a specific assigned duty at the event, who holds and has available credentials for the assigned job, plus one guest each.
- D. Minors under twelve (12) years of age are not counted under these limitations.
- E. Advertised non-spectator Time Trials events are considered private events

In addition, the classification of "private event" shall be removed and the appropriate insurance premium for a public event shall be considered due and payable if there is any local newspaper, radio, television, or similar publicity placed by or traceable to the course owner, the organizing region, or a representative of either of them.

5.2. COURSES

Notwithstanding definitions to the contrary, the word 'course' and the word 'circuit' may be used interchangeably in these rules.

5.2.1. THE SELECTION OF ANY COURSE FOR AN EVENT SHALL BE SUBJECT TO THE APPROVAL OF THE SCCA. SPECIFICALLY, THE SCCA MAY:

- A. Limit a course as to the classification of event to be sanctioned there.
- B. Restrict the number of cars which may be started simultaneously or in total.
- C. Restrict the number of entries which may be accepted for an event or a competition.
- D. Restrict the course to certain classes and categories of cars.
- E. Restrict the course to certain grades of drivers.
- F. Disapprove the course for all SCCA speed events.

- G. Set forth certain areas as “safe” worker areas or restrict areas considered to be “hot”.
- H. Designate spectator areas.
- I. Determine eligibility for non-spectator status for Time Trials events at that facility.

5.2.2. MEASUREMENT OF COURSES

The official length of a course shall be measured along the centerline of the road.

5.3. INSURANCE

5.3.1. INSURANCE REQUIREMENTS

All events sanctioned by the SCCA shall be insured for Event Liability and Participant Accident coverage. Event Liability coverage may be provided by the SCCA Master Insurance Plan or an equivalent policy (equivalency to be determined by the SCCA Risk Management Department), if obtained in compliance with the procedures described in paragraph 5.3.5., “Alternative Liability Insurance Procedures for Events.” Participant Accident coverage shall be provided by the SCCA Master Plan.

5.3.2. INSURANCE AVAILABILITY

The TT Safety Steward shall delay the beginning of the event until he is satisfied that the insurance required under this section is provided.

5.3.3. COVERAGE AND LIMITS

The minimum coverage and limits for competitive events are available from the National Office upon request.

5.3.4. INCREASED LIMITS FOR LICENSED SCCA MEMBERS

\$1,000,000 medical reimbursement benefits are provided to licensed SCCA members properly credentialed for an event.

5.3.5. ALTERNATIVE LIABILITY INSURANCE PROCEDURES FOR EVENTS

The organizers and/or promoters of any SCCA-sanctioned event which is to be insured with liability coverage other than that provided by the current SCCA Master Insurance Plan shall adhere to the following:

- A. A fully worded and certified Liability Policy (or policies) of insurance equivalent to the requirements set forth in Section 5.3.3 shall be forwarded to the SCCA Risk Management Department so that receipt of the Liability Policy (or policies) will occur not less than twenty (20) days prior to the scheduled commencement of the event to be insured by such Liability Policy (or policies). The Risk Management Department in its sole discretion, shall determine whether the Policy is equivalent and acceptable.
- B. If such fully worded and certified Liability Policy (or policies) is not received by a date twenty (20) days prior to the scheduled commencement of the event to be insured, the Risk Management Department shall have the right, but not the obligation, to cause the event to be insured for liability under the current SCCA Event Insurance Plan. Certificates evidencing such coverage and a billing for the appropriate premium charge therefore shall be sent to the event organizers and promoters. In case the premium charge is unpaid by a date fourteen (14) days prior to the scheduled commencement of the event, the Risk Management Department shall cause the event to be canceled.

5.4. SANCTIONS

An SCCA sanctioned event may be organized by:

- The SCCA.
- An SCCA Region(s).

5.4.1. REQUIRED APPROVAL

The names or emblem of the SCCA shall be associated only with events sanctioned by SCCA. Organizers shall not distribute Entry Forms or Supplementary Regulations for an SCCA event prior to obtaining an SCCA sanction.

5.4.2. APPLICATION FOR SCCA SANCTION

Every application for SCCA Sanction shall be submitted on the current Official Form, and shall be accompanied by the appropriate sanction fee, a draft of the Entry Form, Supplementary Regulations, and the Schedule of Events. Applications shall be submitted for approval forty-five (45) days prior to the scheduled date of the event and shall state:

- A. The name, official position held, address and contact information of the requestor.
- B. The name, address and contact information of the Chief Registrar of the event.
- C. The nature and classification of the event for which a sanction is requested.
- D. The date and place of the proposed event.

5.4.3. SANCTION PROCEDURES

The sanction is the documentary authority, granted by SCCA, to organize and hold a competition. A Sanction Number and document will be issued, within five (5) working days, when all requirements listed below have been met and the application approved. Sanction Numbers will be issued via e-mail and application submission should be planned accordingly.

- A. The event must be listed on the official SCCA calendar. To be considered a firm date request, it is recommended that the region's request be confirmed in writing by the circuit owner/manager.
- B. The course must be approved by the SCCA.
- C. Completed current SCCA Sanction and Insurance Request Form, Supplemental Regulations, Schedule of Events and Entry Form must be submitted for approval at least 45 days prior to the scheduled date of the event.
- D. Upon approval of the Application, the National Office will promptly assign a Sanction Number and issue a formal Sanction document to the organizers of the event. (See Section 5.1.1.)
- E. The organizing region will send the Observer Report and the Official Time Trial Event Results to the National Office within ten (10) days of the event.
- F. Appropriate sanction and insurance fee to be paid within 14 days of the completion of the event with the current, completed Post-Event Sanction and Insurance Audit Form.

5.4.4. APPLICATION FOR EVENT ON UNAPPROVED COURSE (PENDING)

In the case of an Application for Sanction to conduct an event at a course which is not already approved by the SCCA (see 5.2.), application shall be submitted at least two (2) months before the proposed event and shall be accompanied by a full description of the course and facilities, including a scale map.

5.4.5. LATE FEE

A late fee of fifty (50) percent of the sanction fee shall be charged on all sanctions postmarked after the applicable deadline, unless prior arrangements have been made and approved by the National Office Sanction Administrator.

5.5. OFFICIAL SCHEDULE**5.5.1. THE OFFICIAL SCHEDULE FOR AN EVENT SHALL CONTAIN THE FOLLOWING INFORMATION:**

- A. A conspicuous announcement: "Held under the SCCA Time Trial Rules."
- B. The event sanction number.
- C. The name of the organizer (Region).
- D. Name, location, and date of the event.
- E. Schedule of planned competitions.
- F. Classes of cars and groupings.
- G. The names of the TT Chief Steward, TT Safety Steward, TT Chief Driving Instructor and Chief Registrar.
- H. The names of additional principal Officials.

5.6. SUPPLEMENTARY REGULATIONS**5.6.1. CHANGES TO THE SUPPLEMENTARY REGULATIONS**

No changes shall be made to the Supplementary Regulations, except for the schedule, event officials and/or class groupings, after the beginning of the period for receiving entries unless unanimous agreement is given by all affected competitors already entered, or the TT Chief Steward so decides for reasons of safety or forces beyond their control. All schedule changes shall be approved by the TT Chief Steward. Changes of event officials must be submitted to the Time Trials Divisional Program Manager who will then notify the National office.

5.7. ENTRY FORMS**5.7.1. ENTRY FORMS SHALL CONTAIN THE FOLLOWING:**

- A. Spaces for full names, addresses, membership numbers, and license numbers of entrants and drivers, and for driver's Region of Record
- B. Space for full description of cars to be entered.
- C. An announcement: "Held under the SCCA Time Trial Rules."
- D. Spaces for signatures of entrants and drivers for waiver of liability and/or indemnity declarations, acknowledgment of the authority of the SUPPS, declaration that cars entered comply with the provisions of the SUPPS, persons to be notified in case of accident.
- E. The Sanction Number assigned to the event.

- F. Emergency contact information must be included with the entry.
- G. Any other information required for the clarification of all other details of the event.

5.8. ENTRIES

An entry made and accepted in accordance with the Time Trial Rules and the Supplementary Regulations shall constitute a contract binding an entrant to take part in the competition entered unless prevented by forces beyond his or her control. The organizers shall comply with the conditions of entry, provided that the entrant has made every effort to take part in the competition. A breach of such contract may be treated as a breach of the SUPPS.

An entry is considered official and a competitor is considered entered in an event when:

- A signed, completed, and official entry blank has been submitted and received by the organizers (subject to subsequent refusal per section 5.8.1).
- The entry fee has been paid and received by the organizers.
- All fines due and payable to SCCA must have been paid.
- Dual entry is permitted under a single sanction number. Separate entry forms and fees are required for each class entered. Only one (1) Vehicle Logbook is required, but shall contain pictures of each configuration.

5.8.1. REFUSAL OF ENTRY

The organizers have the right to refuse an entry at their discretion without giving a reason for refusal. If an entry for any competition is refused, notification of such refusal shall be sent to the entrant at the address given on the Entry Form as soon as possible.

5.8.2. FALSIFICATION OF ENTRY

An entry which contains a false or incorrect statement may be determined to be null and void by the Time Trials Chief Steward or other First Court. The entrant may be deemed guilty of a breach of the SUPPS, the entry fee may be forfeited, and further penalties may be imposed.

5.8.3. WITHDRAWAL (SCRATCH) OF ENTRY

An entry may be withdrawn without penalty if the withdrawal is made prior to the entry deadline date. In such cases, the organizers shall return the entry fee. For withdrawals after the entry deadline, return of all or part of the entry fee is at the organizers' discretion.

5.9. SUBMISSION TO RULES

5.9.1. EVERY PERSON, BODY, GROUP OF PERSONS, REGION OF THE SCCA, OR ORGANIZER WHO APPLIES FOR AND IS GRANTED AN SCCA SANCTION TO CONDUCT AN EVENT, OR ANY PERSON WHO APPLIES FOR AN SCCA LICENSE SHALL BE DEEMED TO HAVE AGREED TO THE FOLLOWING AND SO ACKNOWLEDGE IN WRITING UPON REQUEST:

- A. He or she is familiar with the Supplementary Regulations.
- B. He or she agrees without reservation to the consequences resulting from the TT Rules.
- C. He or she renounces the right to have recourse, except with the written consent of the SCCA, to any arbitrator or tribunal not provided for in the TT Rules.

5.10. WAIVERS

All participants (entrants, drivers, crew, workers, and guests receiving passes) shall sign the SCCA Participants Agreement (waiver of liability) prior to receiving credentials (passes).

5.11. ENTRY LIST

It is recommended the event organizers make the official list of competitors available to all entrants at no charge as early as possible prior to the commencement of the event.

5.12. RESULTS

The organizing region will send Official Race Results and Observer Reports to the National Office and TT Divisional Program Manager within ten (10) days of the event.

5.13. AWARDS

Awards shall be based on the single best recorded run. 1st through 3rd event plates will be awarded for 1st through 3rd place in each class; all other entrants will receive an event participant plate.

5.14. POSTPONEMENT, ABANDONMENT, OR CANCELLATION

All or part of an event may be postponed or canceled if:

- 1. The TT Chief Steward and TT Safety Steward (in full agreement) order that all or part of the event be postponed or cancelled for reasons of safety or forces beyond their control.

- A. Cancellation. If an entire event (all classes, all sessions) is postponed for more than 24 hours, it is considered to be cancelled, and entry fees shall be returned. If an event is cancelled during the competition, then the entry fees shall be prorated by time offered and a reasonable portion of the entry fee shall be returned.

5.15. FLAGGING AND COMMUNICATIONS

5.15.1. GENERAL ORGANIZATION

The Flagging and Communications Chief shall be responsible for the establishment and operation of the Flagging and Communications organization at each SCCA speed event. The purpose of this organization shall be to provide safe course control by:

- A. Informing the Chief Steward and other Officials, through the communication network, of the condition of the course and the competing cars, and of any situation requiring decisions and/or action by the Race Officials;
- B. Relaying information and instructions from the Chief Steward to the persons operating the various emergency vehicles and equipment around the course as well as to the race drivers and turn personnel;
- C. Undertaking emergency action needed to protect the lives and property of drivers, workers, or spectators in the event of an accident;
- D. Maintaining a clear course.

5.15.2. CENTRAL CONTROL STATION

The Communications Chief shall have charge of the Central Control Station where all communications affecting the control of the event are carried out. The Central Control Station shall maintain immediate liaison with the Chief Steward and all corner stations.

5.15.3. CORNER STATIONS

- A. Number - There shall be a sufficient number of corner stations established and manned to keep the entire course under observation at all times and to protect all areas of the course not immediately visible to oncoming drivers.
- B. Location - Each corner station shall be located in accordance with the following considerations: The flagmen to have a clear view of the area to be covered; maximum visibility of the flagmen to the oncoming drivers; maximum protection for the corner station crew from out of control automobiles.
- C. Personnel - Each corner station shall be staffed with a minimum of one person unless otherwise approved by the TT Safety Steward for the event. Personnel should be properly dressed while on station. This means no shorts, tank tops, halter tops, beach wear, etc. while the track is "hot". It is highly recommended that any person on station acting as a first responder should be wearing long sleeves and pants of at least 100% cotton material for personal safety reasons.
- D. Equipment - Each corner station shall be equipped with at least the following:
 1. Device for communicating immediately, privately, and without interference with the Central Control Station, other corner stations, and other stations as appropriate.
 2. A red flag. Flags and their meaning is discussed in the SUPPS Section 4.5.3 - Flags
 3. One Class ABC type fire extinguisher at least equivalent to a 10-pound dry chemical size although two (2) 10 pound extinguishers are recommended at all events. Any events where vehicles are running fuels that are primarily alcohol based (greater than 50% by volume) a minimum of two (2) water or foam extinguisher of the proper type are also required. The grid area shall be equipped with the same number and type of fire extinguishers as the corner stations for all events (it is highly recommended that the number of water/foam extinguishers for grid be doubled when alcohol fueled cars are participating).
 4. Broom (push type) and absorbent materials (e.g. – grease sweep, oil dry, etc.).
 5. If a start/finish station is used, this station shall also have a green flag, a checkered flag, and a black flag.

5.16. EMERGENCY SERVICES - MEDICAL AND FIRE SAFETY

5.16.1. PURPOSE

- A. To establish equipment and personnel needed to effect a workable medical, fire, and safety plan. Detailed plans need to be based on the specific conditions at the event facility and local, state or federal protocols and regulations.
- B. Medical personnel on site need to be familiar with local, state, and federal regulations for accident and medical emergencies.

5.16.2. EMERGENCY SERVICES PERSONNEL AND EQUIPMENT

5.16.2.A. MEDICAL PERSONNEL AND AMBULANCE

The following minimums apply:

1. There shall be a BLS (Basic Life Support) Unit on site staffed by at least two certified caregivers, one of whom must be an EMT at minimum.
2. Medical personnel shall report to the TT Safety Steward for the event.

3. It is recommended the initial medical response, which may be an ambulance, occur within two (2) minutes.

5.16.2.B COURSE RESPONSE VEHICLE

1. There shall be at least one (1) course response vehicle which shall be equipped as specified in C. below. It is recommended the vehicle be stationed so it can reach any point on the racing surface within two (2) minutes at a speed not to exceed fifty (50) mph. The course response vehicle MUST be manned whenever the track is "hot" in order to facilitate a rapid response to any on track incident.
2. There shall be at least one (1) person assigned to each course response vehicle who is trained to use the equipment on the vehicle. It is recommended two (2) persons be assigned to each response vehicle. The course response vehicle shall be capable of flat towing a disabled race car.
3. The course response vehicle must contain at least 50 lbs. of dry chemical and/or foam extinguishers (in any combination) along with tow straps, brooms, pry bars, and absorbent materials. Any event where vehicles are running fuels that are primarily alcohol based (greater than 50% by volume) a minimum of four water and/or foam extinguishers of the proper type are required in addition to the combination. There shall also be at least one person assigned to each response vehicle that is trained in fighting alcohol fuel fires.
4. Course Response personnel shall report to the TT Safety Steward unless there is a Chief of Emergency Services assigned.

5.16.2.C. WRECKER

1. There shall be one (1) wrecker or equivalent which shall be capable of lifting or removing any race car from the event. The wrecker may also serve as a fire truck if equipped as specified in 5.16.2. B .
2. There shall be at least one (1) person assigned to a wrecker who is trained to use the equipment.
3. Wrecker personnel shall report to the TT Safety Steward unless there is a Chief of Emergency Services assigned.

5.16.3.A. TELEPHONE

There shall be an operating telephone or radio readily available to the Chief Steward and Chief Safety Steward which can contact community emergency services and hospitals.

5.16.3.B. OTHER RECOMMENDED EQUIPMENT

It is recommended that the following items be immediately available to the Response Truck Crew:

1. Sharp knife
2. Bolt cutters, 3 foot
3. Fire axe
4. Pry bars, 2 foot and 6 foot
5. Rope, (3/4-inch nylon/or strap, 6000 lb. test), 30 feet
6. Bow saw (30 inch blades) or equivalent tool
7. Tool box, containing: vice grip pliers, hammer (5 lb.), small pry bar, screwdrivers (flat head and Phillips), chisel, tin shears, hack saw and blades, adjustable crescent wrenches (large and small).
8. Oil dry compound

The equipment should be carried on the response vehicle, wrecker or MERV (Multiple Emergency Response Vehicle).

If a power compound rescue tool and trained operator is available locally through Fire or EMS services, it does not have to be located at the event site.

Comparable equipment may be substituted with the advance approval of the TT Chief Steward and TT Safety Steward.

5.16.4. Operating Rules

5.16.4.A. EMERGENCY PLAN

The TT Safety Steward shall, before allowing the commencement of the event, verify that an emergency plan is in place. A copy of the emergency plan should be on file with the National Office.

5.16.4.B. BRIEFING

The TT Safety Steward shall meet with the Medical Crew to confirm duties, duty stations, equipment, race circuit characteristics, vehicles, and other protocol.

5.16.4.C. DISPATCHING

The dispatching of emergency vehicles on the track shall be authorized by the Chief Steward. Dispatching procedures shall be agreed on in advance by the Chief Steward, Safety Steward and emergency response personnel.

5.16.4.D. HOSPITAL ARRANGEMENTS

1. The Medical Crew (crew staffing the on-site ambulance) shall establish a primary route to the primary and secondary hospital prior to an event.
2. The Event Organizer shall confirm the availability of hospital staff and facilities.

5.16.4.E. IDENTIFICATION OF PERSONNEL

Emergency services personnel should be readily identifiable by some means other than the usual passes (e.g., vest, arm bands, jackets).

5.16.4.F. START OF RACE

All emergency vehicles shall be equipped and staffed at all times while race cars are on course.

5.16.4.G. SUSPENSION OF RACING

Racing shall be suspended if the personnel specified in 5.16.2.A and 5.16.2.B, or the equipment specified in 5.16.3.A and 5.16.3.B are no longer on the premises or are unable to perform their assigned duties.

5.17. SCHEDULING

Scheduling of Time Trials events within each Division should be handled by methods determined by the TT Divisional Program Manager. Care should be taken to coordinate with the Club Racing Divisional Scheduling Representative. Interdivisional Time Trials events shall be coordinated by the applicable TT Divisional Program Manager.

6 LICENSES

6.1. LICENSE GRADES

6.1.1. TIME TRIALS COMPETITION

- TT Novice permit
- TT Competition license
- TT Participation Log Book (for Track Events and Club Trials)
- Minor (See 6.8.)

6.2. PARTICIPATION REQUIREMENTS

A competition license holder shall participate in the minimum number of SCCA races specified for his or her grade of license.

6.3. MEDICAL REQUIREMENTS

Medical requirements can be found on page 2 of the Time Trial/Novice Time Trial Application

6.4. TIME TRIALS PARTICIPATION LOG BOOKS

Time Trial Participation Log Books and/or Time Trial Competition Licenses may be used as documentation of on-track experience that may gain credit towards an SCCA Club Racing Competition License at the discretion of the SCCA Drivers School Chief Steward.

6.5. NOVICE PERMITS

TT Novice permits will be issued by the SCCA National Office or SCCA regions to enable student drivers to obtain the training and experience needed for TT Competition Licenses. Applicants under the age of 18 must apply directly to SCCA Member Services and provide a completed SCCA MS-L minor waiver (Form MS-L).

6.5.1. NOVICE PERMIT UPGRADES

TT Novice permit holders must complete three Time Trials or Hillclimb events with a satisfactory rating by the TT Driving Instructor of the event. Once these are completed, they may apply to the National Office for an upgrade to a TT Competition license. Documented PDX and/or Club Trials experience (Participation Log Book) may be used as a consideration for the upgrade.

6.5.2. APPLICANTS WITH PRIOR RACING EXPERIENCE

The TT Divisional Program Manager may waive all or part of the requirements for drivers with prior racing experience. Participants with a Regional Competition license, its equivalent, or higher, may use that license and do not need to obtain a Time Trials license. A valid Rally America license may be used in place of a TT Novice License; these drivers will retain novice status until obtaining a TT Competition License. All participants in Time Trials or Hillclimb events must have a current SCCA membership.

6.5.3. RACING ON A TT NOVICE

PERMIT The holder of a TT Novice

Permit shall:

- A. Participate in three Time Trials events and obtain the signature of the TT Chief Driving Instructor of the events attesting to satisfactory performance. Novice Permits may not be renewed or reissued for a third consecutive year.
- B. Obtain a physical and submit the Physical form to the TT Divisional Program Manager (who will then forward the original form to the National Office and keep one copy on file) within 6 months of the issue date listed on the Novice Permit. Failure to have a completed Physical form on file by the prescribed date will render the Novice Permit void until such time as the form is received by SCCA.

NOVICE REGULATIONS: A novice is defined as any driver currently competing under a TT Novice Permit or SCCA Novice Competition License **OR** any driver that has not competed at that site in the past 5 years. ALL novices are required to meet the following expectations in order to obtain a SATisfactory rating:

- a. Novices must present themselves and their car at registration on Friday evening.
- b. Novices must attend the Novice Driver's Meeting and Sunday Driver's Meeting.
- c. All novice cars **MUST** display three (3) ID stripes on both sides of the vehicle. The color of the stripes must be of a contrasting color from the body paint.
- d. Complete the weekend without "Incidents" as defined below.

Failure to meet these expectations may result in an UNSATisfactory rating or disqualification from the event.

NOVICE INCIDENTS:

- Two or more wheels off course
Result: Mandatory discussion with the Chief Driving Instructor. SAT rating possible. Corner worker reports could adversely affect this rating.
- Spin without contact
Result: Mandatory discussion with the Chief Driving Instructor. A SAT rating with cautionary notation in the TT Novice Permit. Corner worker feedback may result in an UNSAT rating
- Off course crash as a novice
Result: Mandatory discussion with the Chief Driving Instructor AND Chief Steward about cause and effect. For example; Overdriving, wrong line, too fast for skill level, car failure, etc. The driver can offer mitigating circumstances, but generally, crashing as a novice is frowned upon. UNSAT entry in the Novice Permit,
- Unsportsman-like Conduct. (Uncontrolled temper, disrespect towards drivers, workers and/or officials, conduct deemed inappropriate by the Stewards/Instructors)
Result: UNSAT entry in the Novice Permit with appropriate notation of the issue and possible disqualification for the weekend. Final decision is with the Chief Steward.

6.5.4. REVOCATION

A TT Novice Permit may be revoked by the TT Divisional Program Manager, appointed by the SCCA for his division of record, upon recommendation of the TT Chief Safety Steward or Chief Driving Instructor of an event.

6.6. TT COMPETITION LICENSE REQUIREMENTS

Holders of TT Novice Permits who are current SCCA members in good standing and who have satisfactorily completed the event requirements in 6.5.3 may apply for upgrade to the National Office.

6.6.1. TT NOVICE PERMIT AS TEMPORARY LICENSE

Should a TT Novice licensee choose to attend a restricted TT event (not approved for novices) after fulfilling the requirements for upgrade, they should contact the TT Divisional Program Manager to make arrangements to inform the registrar of the event in question of the current license status.

6.6.2. RENEWAL OF TT COMPETITION LICENSE

Renewal forms will be mailed automatically. TT Competition License holders may apply for renewal by submitting to the National Office:

- A. Completed renewal application with a record of completing at least two (2) events during the preceding twenty-four (24) months.
- B. A completed Medical form. (See 6.3.)
- C. The appropriate license fee payable to SCCA.

6.6.3. APPLICANTS WITH PRIOR DOCUMENTED EXPERIENCE

Participation requirements for issuance or renewal of a TT Competition License may be waived in total or in part only by the TT Divisional Program Manager or SCCA Club Racing Manager.

6.7. OTHER COMPETITION LICENSES - ACCEPTED FOR TIME TRIALS EVENTS.

The following competition licenses are accepted for Time Trials events, SCCA Professional, National, Regional, Vintage and Novice. Also accepted are Canadian ASN-FIA licenses and those approved in the current GCR. Other types of competition licenses may be accepted per Supplemental Regulations. Entrants with other types of accepted competition licenses must be current SCCA members in good standing and should have completed the minimum number of events required for the applicable competition license during the license year. Any of the accepted competition licenses must meet the eligibility requirements in 6.7.1.

6.7.1. ELIGIBILITY

Entrants with other types of accepted competition licenses must be current SCCA members in good standing and shall have completed the minimum number of events required for the applicable competition license during the license year.

6.8. LICENSING OF MINORS

Minor requirements can be found on page 2 of the Time Trail/Novice Time Trial Application

6.9. PROBATION LETTER HOLDERS

All SCCA probation letter holders shall present the letter at registration to the Chief Steward.

6.10. TIME TRIALS OFFICIALS' LICENSING SPECIALTIES

- TT Volunteer
- TT Driving Instructor
- TT Chief Steward

- TT Safety Steward
- TT Tech Inspector
- TT Course Inspector

6.10.1. TIME TRIALS OFFICIALS LICENSE LEVELS

In the Time Trial program, these designations are awarded upon demonstration of ability and experience first, with amount of participation as a secondary consideration.

Apprentice - This grade shall be used for those in training and unless expressly stated within the SUPPS shall have an Official license holder of the same specialty onsite. Obtaining this level of license requires no approval and can be issued by contacting SCCA National office.

Official - For those who demonstrate competent service and have completed an acceptable Apprentice period. This requires an upgrade request.

Specialist – This grade designates those who are capable of taking on leadership positions. They will be responsible for training new Apprentices, and will be those who are eligible for Divisional leadership positions. This requires an upgrade request.

6.10.2. TIME TRIALS OFFICIALS LICENSE UPGRADE GUIDELINES

The following participation guidelines are recommended for license upgrades. Submit all upgrades on a Time Trial Official application. Information shall include the date, location/event, sanction number, specialty worked and signature, membership number of the specialty Official.

- A. Apprentice to Official level upgrade for TT Safety Steward or TT Course Inspector
 1. Completing an SCCA approved safety seminar
 2. Successful completion of 4 Time Trial events in any combination
 3. Highly recommended 3 of 4 events be Time Trials Level or higher
- B. Apprentice to Official level upgrade requirements (except TT Safety Steward or TT Course Inspector)
 1. Successful completion of 3 Time Trial events in any combination
 2. Highly recommended 2 of the 3 events be Time Trials or higher
- C. Approval for Apprentice to Official upgrades
 1. To be submitted to and approved by the TT Divisional Program Manager. The application will be forward to Member Services for processing.

7 EVENT OFFICIALS

7.1. OFFICIALS

The staff of principal officials, whose duty it shall be to direct the control of the event may include:

- TT Chief Steward
- TT Safety Steward
- Event Chairman
- TT Worker Chief
- Chief of Timing
- TT Chief Technical and Safety Inspector (Scrutineer)
- TT Chief Driving Instructor
- Chief Registrar
- Chief Sound Control

They shall be termed "Officials" and may have assistants also termed "Officials," to whom any of their duties may be delegated. Any worker is considered an official. When a Time Trials event is held in conjunction with a Club Race event, all event officials may be those of the Club Race event.

7.2. RACE OFFICIAL LICENSES

It is required that all Officials under SCCA control at all SCCA sanctioned Time Trials events shall either be licensed in the specialty or hold a logbook in the specialty, except medical personnel and workers in "safe" areas as listed below. These licenses are to be checked at Registration (preferred) or by the Chief of the Specialty at each event.

7.2.1. OFFICIAL MEMBERSHIP REQUIREMENTS

The Divisional Time Trials Safety Steward shall have the authority to determine if a work area is classified as "safe" as to allow non-members to be utilized. In the absence of the Divisional TTSS, the event TT Safety Steward, TT Chief Steward, and Event Chairman may deem an area "safe" through unanimous agreement. Any areas not deemed safe by one of the above methods shall default to "hazardous" status and be thereby restricted to SCCA members only.

7.2.2. MINIMUM GRADE OF LICENSE LISTED FOR EACH LEVEL IN SECTION 7.11.

If licensed Time Trials Officials are not available, Club Racing Official Licensees may be substituted. This is intended to allow Regions or Divisions a way to start new programs.

7.3. REQUIRED OFFICIALS

At every event there shall be a TT Chief Steward, TT Safety Steward, and TT Chief Technical and Safety Inspector, in addition to other officials as necessary. Additionally, a TT Chief Driving Instructor must be present at any event where novices are participating.

7.4. RIGHT TO SUPERVISION

The SCCA Club Racing Department reserves the right to designate a qualified person to evaluate any competition.

7.5. APPOINTMENT

7.5.1. SCCA TIME TRIALS EVENTS

All Officials shall be appointed by the Region conducting the event, subject to approval by the Time Trials Divisional Program Manager, or the TT Safety Steward of the Division for TT Safety Steward positions.

7.6. CONDUCT

7.6.1. STANDARDS OF BEHAVIOR

Every Official shall conduct himself or herself according to the highest standards of behavior. Failure to do so may result in loss of official appointment for the event, or other penalty as determined by the Club Racing Manager.

7.6.2. LOSS OF LICENSE

Any license holder (whose actions are deemed by the SCCA Time Trials Administrative Council to be contrary to the best interest of SCCA) may have his or her license revoked, either for a period specified by the Time Trials Administrative Council, or permanently. This action is appealable to the Board of Directors.

7.7. PLURALITY OF DUTIES

- A. The same person may hold more than one official position. Any substitution of officials shall be coordinated with the Chief Steward and other officials.

7.8. POWERS OF THE SOM – OPTIONAL

All powers of the SOM shall fall to the TT Chief Steward when this option is used by the event organizers. All Club Race Steward protocols should be followed if the event organizer chooses to utilize an SOM and all related stewards. In the event of a protest, the SOM shall appoint three individuals to hear, discuss, and rule on the protest. These individuals shall have no material interest in the involved parties or in the outcome of the protest.

7.9. TIME TRIALS CHIEF STEWARD

The TT Chief Steward is the executive responsible for the general conduct of the event in accordance with the SUPPS. In the event of a protest, the Chief Steward shall appoint three individuals to hear, discuss, and rule on the protest. These individuals shall have no material interest in the involved parties or in the outcome of the protest.

7.10. EVENT CHAIRMAN

7.10.1. THE EVENT CHAIRMAN SHALL BE RESPONSIBLE FOR THE ORGANIZATION OF AN EVENT. SPECIFICALLY, HE OR SHE SHALL:

Arrange the required equipment and facilities in accordance with Section 5.16., Emergency Service, Medical, Fire, and Safety.

7.11. CHIEF STARTER - OPTIONAL

The Chief Starter shall operate directly under the supervision of the TT Chief Steward. The Chief Starter gives directions to competing drivers by flag, hand, and body signals prescribed by the SUPPS with respect to starting, suspending, and ending a race.

7.12. COURSE CHIEF - OPTIONAL

The Course Chief shall be responsible for final preparation and maintenance of the course and other related duties assigned to them by the Chief of Emergency Services in conjunction with the TT Safety Steward and TT Chief Steward.

7.13. WORKER CHIEF

The Worker Chief shall be responsible for recruiting, training, and assigning qualified persons to corner stations. At least one worker at each station should be an SCCA member, preferably licensed in a specialty. Additionally, the Worker Chief is responsible for overseeing other workers including start line workers, pit and grid workers, and working with the Chief Steward to assign a person to the Control station.

7.14. COMMUNICATIONS CHIEF - OPTIONAL

The Communications Chief shall be responsible for the establishment and operation of the communications system, which shall include all corner stations and a central control.

7.15. CHIEF OF TIMING

7.15.1 THE CHIEF TIMER AND SCORER SHALL BE RESPONSIBLE FOR THE ACCURATE TIMING AND SCORING OF THE EVENT IN ACCORDANCE WITH THE SUPPS (FOR NON-PASSING EVENTS, LAP CHARTS ARE WAIVED). SPECIFICALLY, HE OR SHE SHALL:

- A. Recruit, train, assign and supervise qualified personnel to time and score the event.
- B. Furnish the Chief Steward, Chief Driving Instructor and Event Chair any times and results that they may request.
- C. Maintain records of official times and lap charts for all competing cars.
- D. Compile and publish the Official Results of all competitions, submit copies of completed Official Results to the Event Chairman for distribution to the TT Chief Steward, the organizers, and the SCCA, and submit complete Official Results within ten (10) days to the Divisional Points Keeper.
- E. At spectator events, work closely with the Press Officers, press, and other media, as well as with circuit, radio, and/or television announcers, providing qualifying information, results, and any other data requested, as quickly as possible.

7.16. CHIEF TIME TRIALS TECHNICAL AND SAFETY INSPECTOR

7.16.1. The Chief TT Technical and Safety Inspector shall ascertain that the cars comply with the current SUPPS Section 3.4.3.E, Section 8.2. Specifically, he or she shall:

- A. Approve cars that comply with all safety regulations. This area should be emphasized over compliance with class specifications. This is to say that the Inspector may report a car that does not meet the specifications of the class if they notice the situation, but they are to be primarily concerned about the car meeting the safety regulations.
- B. Conduct inspections of cars at the request of the TT Safety Steward, TT Chief Driving Instructor or TT Chief Steward.
- C. Report to the TT Chief Steward any cars that he or she finds do not conform to the requirements of the SUPPS and/or the appropriate GCR or Solo Specification Books.

7.17. CHIEF OF EMERGENCY SERVICES - OPTIONAL

The Chief of Emergency Services shall be responsible, in conjunction with the TT Safety Steward and TT Chief Steward for staffing and equipping the medical organization in accordance with Section 5.16. - Emergency Services.

7.18. TT CHIEF DRIVING INSTRUCTOR

The TT Chief Driving Instructors shall observe all novice participants at several locations throughout an event when possible. The TT Chief Driving Instructor shall record all incidents that involve novices, and at the conclusion of each competition, shall give the TT Divisional Program Manager a written report of all incidents. This will help determine eligibility for upgrades from novice to full licenses. Additionally, the TT Chief Driving Instructor shall arrange for a Novice Orientation at each event. This may be done as a classroom session (or multiple sessions) or a course tour. All novices present at an event must be present for this Orientation unless excused by the TT Chief Steward.

7.19. PRESS OFFICER - OPTIONAL

The Press Officer advises the Officials on press information and acts as liaison with the promoter's press director, if any. Chief Officials and SOM shall cooperate with the Press Officer in carrying out his or her responsibility to apprise the press on matters of public interest.

7.20. CHIEF REGISTRAR

The Chief Registrar shall be responsible for accepting, certifying, and processing all entries and credentials for drivers, crew, and Officials and the posting of all required signs/placards in the registration area.

7.21. TIME TRIALS SAFETY STEWARD (TTSS)**7.21.1 TTSS RESPONSIBILITIES:**

- A. To investigate accidents and forward the originals of all reports, including original releases, to the Risk Management Department of SCCA.
- B. To notify Risk Management Department, the same day via telephone, of any accident which involves serious injury to a participant or any injury to a spectator.
- C. To mail copies of the material sent to the Risk Management Department to the Divisional Safety Steward.
- D. During the event, to report to the Chief Steward any hazards which require further investigation or action.
- E. To perform safety related duties as delegated by the Chief Steward.
- F. To ensure the presence of appropriate Emergency Services personnel and equipment at all times while the event is underway.
- G. Take appropriate measures to ensure adequate crowd control. Deputy TT Safety Stewards and Crowd Marshals may be assigned for this purpose. It is the responsibility of the TT Safety Steward to review and confirm the placement of all barriers and crowd control devices prior to the start of the event, and to take measure to ensure they remain in position during the event.
- H. Determine areas of restricted personnel because of safety concerns. If available, this should be done in cooperation with the TT Safety Steward of the Division, or with a TT Course Inspector, if present.
- I. Use every reasonable means to limit access to restricted areas to those who have proper credentials. The use of a credential system (armbands or the like) is recommended at any event where multiple points of entry are possible.
- J. Personally examine the insurance and sanction paperwork prior to the start of the event.
- K. Conduct a meeting of course workers, crowd control personnel, and Deputy TT Safety Stewards prior to the actual start of the event.
- L. Make a final course inspection just prior to the beginning of competition or prior to the resumption of competition after a delay of an extended period. This check is to assess the placement of all personnel, safety equipment, barriers and protective placements (hay bales and the like), and to confirm the readiness of Emergency Services personnel and equipment.

A visiting TT Safety Steward shall have the responsibility of notifying the Event TT Safety Steward of any safety concerns, and this notification shall serve as informational only. A visiting TTSS has no authority to overrule or negate decisions of the Event TTSS, unless the visiting TTSS is the TTSS of the Division, and then this authority should only be used as a last resort.

In the event of non-compliance with safety Regulations, the TT Safety Steward shall take the following steps:

1. Advise the TT Chief Steward of the infraction and request the situation be remedied before the next car runs.
2. If step one fails to resolve the situation, inform the Chief Steward that the event is shut down until the problem is corrected.
3. If steps above do not result in correction, inform the Chief Steward and Event Chairman in writing (via a Memorandum of Record) that the event insurance is suspended until the problem is corrected, and that they personally will be held legally liable for any further event operation. All workers and participants should be verbally notified of the situation by whatever means are available. Copies of the Memorandum of Record should be sent to the TTSS of the Division and to the Time Trials Administrative Council for review.

While the event TTSS does have the right to cancel an event for safety reasons, this should be used as a last resort ONLY. Every attempt should be made to resolve the situation and continue the event in a timely manner. Safety Stewards should work diligently in cooperation with Event Chairpersons and Chief Stewards to ensure an event that is safe for all participants, workers, and spectators. Safety is not an area where compromises can be made, and it is up to all officials to work together to continue the long-standing record of safe events that has become the tradition of SCCA.

7.22. SOUND CONTROL CHIEF

- 7.22.1. THE SOUND CONTROL CHIEF SHALL BE RESPONSIBLE FOR MONITORING RACING VEHICLES AT EVENTS WHERE SOUND CONTROL LIMITS ARE REQUIRED BY THE FACILITY BEING USED. SOUND READINGS WILL BE TAKEN IN ACCORDANCE WITH THE SCCA SOUND CONTROL MANUAL. SPECIFICALLY, HE OR SHE SHALL:
- A. Review or establish sound meter monitoring location.
 - B. Establish how reading(s) shall be made.
 - C. Advise the TT Chief Steward of the readings.
 - D. Submit post-race reports to the TT Chief Steward.
 - E. Monitor weather and ambient conditions throughout the day.
 - F. Perform field calibration in accordance with the Sound Control Manual for sound meter, microphone, or other instruments.
 - G. Obtain yearly calibration of equipment from manufacturer or qualified laboratory.

7.23. COMPLIANCE CHECKING CREW - OPTIONAL

When assigned to an event by the Club Racing Department, all members of this crew will have the official status of an Assistant Chief Steward. Their sole responsibility is to advise the Chief Steward of cars not in compliance with the SUPPS and/or the Supplemental Regulations for the event.

8 TECHNICAL & SAFETY INSPECTION

In order to enter the race course at any time during an event, a vehicle shall display a Tech Sticker signifying successful completion of technical and safety inspection as prescribed in the following sections. Passing safety inspection and receiving a Tech Sticker is an indication that the car is approved to go on course. It is not a certification of legality.

All cars must pass all items in section 8.2.1.

8.1. ANNUAL INSPECTION

A full and complete Technical and Safety Inspection shall be performed by a Licensed TT Tech Inspector (Official/Specialist) on each car within the prior 12 months before competition. If the car passes Tech, the logbook shall be stamped with the "official" inspection stamp (if used), dated, and signed. Annual Tech may be performed in December of the preceding year.

8.1.1. MINIMUM SAFETY INSPECTION

Minimum Safety Inspection - Minimum inspection for each event thereafter shall consist of reviewing the Vehicle Logbook. If it is in order, a Tech sticker shall be issued.

8.1.2. REINSPECTION

A car shall be reinspected if damage or deficiencies from the car's previous event(s) are noted in the logbook or the car changes category. Inspection above the minimum level (see 9.1.1) may be performed on a vehicle whose logbook indicates no competition for three (3) months or more during the current year; or on vehicles as specified in Supplemental Regulations; or at the request of the TT Chief Steward or TT Safety Steward. Throughout the racing season, the Tech crew is encouraged to perform regular reinspections through walk around observation in the pits and paddock, or through special impounds by group or class with the concurrence of the Chief Steward.

8.2. FULL INSPECTION

A full safety check of your car will be made before you will be permitted to compete. All vehicles will be subject to technical inspection at this event. Hardtops and sunroofs must be removed and/or securely fastened. Convertible tops must be down and securely fastened. Roll bars and Roll Cages must conform to the SUPPS. All forward facing glass lights must be taped. Five or six-point driver restraint systems are required. First time entrants may have full tech, certification and purchase vehicle logbooks at the event. Vehicle log books are mandatory.

8.2.1. THE POINTS COVERED AT TECHNICAL AND SAFETY INSPECTION SHALL BE:

- A. Eligibility for class entered - compliance with the SUPPS and GCR and/or Solo Specification Books. Each car shall have a complete and up to date logbook. (See 9.3., Vehicle Logbook)
- B. Appearance suitable for competition.
- C. Appearance neat and clean. Specifically, cars showing excessive damage, structural rust, or that do not bear the prescribed identification marks shall not be approved for competition.
- D. Tires - 120 mph rated or better unless otherwise specified or controlled and not showing cord at any part of the tire.
- E. Brakes - Shall be pedal operated, working directly on each wheel, and in good working order. Rolling brake tests are prohibited.
- F. Body Panels Shall be securely mounted. Fender skirts and hub caps shall be removed.
- G. Exhaust System - Shall be directed away from the body and shall terminate at or behind a point which is equidistant from the front and rear hubs.
- H. Hood and Engine Compartment - Shall be securely fastened. Battery shall be securely mounted with positive terminal covered. Throttle return shall be consistent and positive.
- I. Suspension and Steering - Shall be of suitable design and in good working order.
- J. Leakage and Caps - There shall be no visible fluid leaks. Monza (flip top) gas caps are prohibited.
- K. Lights - Brake lights on cars so equipped and taillights on Formula cars shall operate properly.
- L. Seats - the seat shall be securely mounted. If a folding seat, it shall be securely bolted or strapped in place. It is highly recommended that the driver's seat be replaced with a one-piece bucket type race seat meeting and include an upper brace if non-FIA homologated.
- M. Seat Belts and Shoulder Harness - Shall conform to Supplementary Regulations as listed in section 9.20.7 and Section 11.
- N. Tonneau Covers and Boot Covers - Shall be removed.
- O. Firewall and Floor - Shall comply with Section 9.18.
- P. Mirrors - Shall provide driver visibility to the rear of both sides of the car.

- Q. Driver Safety Equipment shall comply with Section 9.20., Driver Safety Equipment. The scrutineer performing the inspection shall affix a dated, non-removable sticker or decal to helmets (if available) that comply with Section 9.20.2.
- R. Holding Tanks - Oil holding tanks and engine transmission breathers shall comply with Section 9.23., Oil Holding Tank and Breathers.
- S. Wood rim steering wheels are prohibited.
- T. The driver shall not be exposed to header tanks or unshielded fuel and water lines. "Aeroquip" lines are considered to be shielded lines.
- U. Windows shall be clear or uncolored. Officials may require the replacement of windshields that are considered a safety hazard.
- V. Non-metallic wheel construction is prohibited. Non-metallic chassis construction is prohibited, except in ASR, CSR, DSR, S2000, FA and Hillclimb Specials where it is allowed.
- W. The mounts for video/photographic cameras shall be of a safe and secure design and are subject to approval by the Chief Tech and Safety Inspector. Helmet mounted cameras may be approved on an individual basis.
- X. Cool suits are allowed in all classes. Water tank mounts shall be of a safe and secure design.
- Y. Data collection devices are considered to be instrumentation and are therefore allowed in all classes that permit the installation, replacement or addition of gauges, indicators or instruments.
- Z. On all carburetors, (except SU, C and D Sports racers with motorcycle-type carburetors and Formula 500 Mikuni VM38) with a non-threaded fuel inlet fitting, the fitting shall be replaced by drilling and tapping the carburetor body for a threaded fitting.

8.3. IMPOUND - OPTIONAL

It is recommended that there be at least one (1) nominal ten (10) pound dry chemical agent capacity, minimum UL 60 BC or ABC rated, CO2 or equivalent Halon fire extinguisher present in the impound area.

9 AUTOMOBILE & SAFETY

9.1. CLASSIFICATIONS

The Time Trials program shall use a class structure which will maximize participation potential and enhance local competition. This allows each local series to tailor its classes to suit, so long as the following minimum requirements are met:

- All classes listed in the current GCR (both National and Regional) must be accommodated. This rule is to allow a place to compete for any car prepared to a GCR class but does not restrict classes from being consolidated because of limited participation.
- It is strongly recommended that the Solo Street Prepared and Street Mod class cars are accommodated provided that they have the required Time Trials safety equipment.
- SCCA Vintage-legal cars will also be eligible for Time Trials. These cars may be prepared to current SCCA Vintage rules, and the burden of proof of legality shall fall to the competitor.
- Other classes may be adopted locally as needed, so long as safety requirements are met. These classes may include Specials, Rally, Legends, or other classes. All such classes will be listed in the Supplemental Regulations for the series or event.

9.1.1. HOMOLOGATION REQUIREMENTS

Except for composite chassis construction, homologation is waived for Time Trials events, provided the car meets roll-structure requirements as set forth in Section 10 for the class of car. If the car does not meet roll structure requirements as listed and is not homologated, a special exception must be obtained from the Club Racing Technical Services department at the SCCA National office. If special permission is obtained, the driver MUST be in possession of a written copy, and present it upon request of an Official at any time during the event. A log book shall NOT be sufficient proof of this exception, only a letter (or copy of the letter) showing the signature of a staff member of the SCCA National Office. Homologation requirements documentation can be obtained from the Club Racing Manager at the SCCA National Office.

9.2. GENERAL PROVISIONS

To compete in an SCCA sanctioned event, all cars shall comply with the requirements of the Supplementary Regulations and of the specifications for their category and class. If these General Provisions and Specific Provisions for a category/class shall conflict, the specific category/class provisions shall take precedence. In Time Trials events, the Supplementary Regulations for preparation shall have preference over the GCR in case of conflict.

9.3. VEHICLE LOGBOOKS

1. A standard SCCA Time Trials Vehicle Logbook shall be used by all competitors at all Time Trials competitions. The Club Racing Vehicle Logbook is acceptable for those cars that are prepared to the current GCR.

The SCCA Time Trials Logbooks and their corresponding serial numbers are obtained from the Time Trials Divisional Program Manager. For divisions that do not have a Time Trials Divisional Program Manager, the logbooks and serial number shall be obtained from the Club Racing Manager.
2. Only one Logbook shall be issued for each vehicle (other than as a continuation of the original or replacement). When a continuation logbook is issued the original issuance date of the logbook shall be written on the front page of the continuation logbook. (It is not necessary to present all old logbooks for issuance of annual inspection stamp or a tech sticker.) The possession of two Logbooks for one vehicle shall be deemed a breach of the rules and may be penalized.
3. A complete description of the vehicle, its safety roll bar/roll cage, and the required photographs shall be entered in the places provided. All changes of ownership of the vehicle shall be recorded as provided.
4. ASN Canada FIA Vehicle History Logbooks shall be accepted at all SCCA events.
5. The TT Vehicle Logbook may be issued by a licensed TT Technical Inspector or Club Racing Scrutineer, who shall also complete the required vehicle information in the front and back of the Logbook. He or she shall conduct a thorough inspection of the vehicle, as provided in Section 8., Technical and Safety Inspection. The logbook issue date is the date of registration. ~~When a car receives a Time Trials logbook, it should be clearly noted what Level the roll structure is approved for.~~
6. Identity Numbers:
 - A. Each vehicle shall have an identity number corresponding to that of its logbook permanently stamped on its roll bar.
 - B. The first two characters shall correspond to the issuing Division's identity and shall be separated from the balance of the characters by a dash (-). This will be followed by a three (3) digit consecutively numbered serial number. This will be followed by another dash (-) and the issuing Region Identification Number. This would enable tracing of an identity number to the Division and specific Region of issue. Example: NP-XXX-101 would show that the serial number was issued in the Northern Pacific Division (NP) and by the Reno Region (101).
 - C. The car numbering system, beginning with (001), shall be issued consecutively as the vehicles are registered via the Time Trials Divisional Program Manager or Club Racing Manager during a thorough inspection.

7. All Formula and Sports Racing Cars registered after January 1, 1983 are required to be Homologated by SCCA and issued a Certificate of Approval.
8. At each event, this Logbook and the Homologation Certificate (for cars required by these rules to have one) shall be presented at Technical Inspection with the signature of the driver/entrant for that event in the space provided. During Technical Inspection all deviations regarding both safety and legality shall be noted by the Technical Inspector. If a waiver for the event is permitted, by the Chief Steward or his/her designated representative, the duration of the waiver shall be noted and complied with by the competitor.
9. If a car is protested during an event and found to be illegal, the results of this protest shall be noted by the TT Chief Steward, or delegated to another official, such as the Chief Scrutineer.
10. In the event the vehicle is involved in an accident or is damaged due to a mechanical failure, the damage shall be noted in the Vehicle Logbook by the accident investigator or Chief Technical Inspector.
11. In the event the Vehicle Logbook is not available at Technical Inspection, the vehicle may be accepted for competition only after a thorough inspection during which all details required for the issuance of a logbook shall be recorded.

9.4. FUEL

All cars at SCCA Time Trials events shall use a fuel which meets the following guidelines:

1. For all cars in Solo-based or Solo-derived classes - Fuel must conform to the standards in the current SCCA Solo Rules.
2. For all cars in GCR-based or GCR-derived classes - Fuel must conform to the standards in the current SCCA GCR.
3. For all other vehicles- Fuel must be hydrocarbon/petroleum based (gasoline, diesel), alcohol-based (ethanol, methanol, etc.) or blends of those fuels. Fuels may contain antioxidants, metal deactivators, corrosion inhibitors and lead alkyl compounds such as tetraethyl lead. Oxygen and/ or nitrogen bearing additives (such as nitrous, nitroalkanes, etc.) are prohibited, except for those originally present in service station pump fuel.
4. All vehicles running alcohol-based fuels must have the letter 'A' following the car number (e.g. – 8A, 18A, 28A, etc.). This letter shall be at least four (4) inches high, with a half (1/2) inch stroke on a contrasting background. This is to inform response workers of the presence of the fuel. For cars required to have the alcohol designator, the class designation letters shall not be in close proximity to the alcohol designator. Alternate methods of identifying cars running on alcohol-based fuels are acceptable if they are defined in the supplemental Regulations and all safety team members are briefed on the alternate designation. It is also recommended that a dye be applied (if available) to all alcohol fuels to increase fuel fire visibility.
5. Any entrant running a vehicle on alcohol based fuels greater than 50% volume must notify the event officials prior to the published entry deadline date or as specified by supplemental Regulations. This is to ensure that proper firefighting equipment is present at the event. Entrants failing to do so may be disallowed from the event.
6. Oxygen and/or nitrogen bearing oil additives are prohibited in two-cycle engine oiling systems.
7. Fuels that meet any of the above requirements but require a pressurized fuel vessel (CNG, propane, etc.) are not permitted.
8. Nitrous or any other fuel enhancement injection systems are not allowed. Cars equipped with such systems must remove the bottles used by the system prior to being allowed on the event site.

9.5. IDENTIFICATION MARKINGS

Each car shall carry identification numbers and class letters per 9.5.1., and 9.5.2., SCCA logos. The Chief of Timing shall have the ultimate discretion in determining if the car number or class is displayed appropriately. Two driver cars are responsible for changing numbers between runs. Time will be assigned to the number on the car.

9.5.1. NUMBERS AND CLASS LETTERS

Numbers shall be placed on both sides of the car so that they are legible. All Formula cars with a rear wing shall have legible numbers on each rear wing side plate. Numbers shall be no more than two (2) digits, and shall meet the approval of the Chief of Timing and Scoring. Three (3) digit numbers may be used when individually approved in advance by the Chief of Timing and Scoring. Class letters shall be placed on both sides of the car so that they are legible. Front and rear numbers and class letters are recommended.

9.5.2. SIZE OF NUMBERS AND CLASS LETTERS

Numbers shall be at least eight (8) inches high, with a 1.5-inch stroke on a contrasting background (rear winged Formula cars shall have as large a number as possible on their rear wing side plates). Metallic (reflective) numbers and class letters are prohibited. The distance between two (2) numbers shall be at least as wide as the stroke of the numbers. Class letters shall be at least four (4) inches high, with a half (1/2) inch stroke on a contrasting background.

9.6. MECHANICAL CONDITION

A licensed TT Technical and Safety Inspector shall have the responsibility for approving each car before it is allowed to take part in a competition. The inspection procedures used to carry out this responsibility are set out in Section 8., Technical and Safety Inspection. A driver or entrant whose car is disapproved and who drives it in competition or who presents it for recheck after disapproval without the corrections specified may be penalized.

9.6.1. ALTERATIONS OR DAMAGE AFTER INSPECTION

Cars which have been altered or damaged after they have been approved at technical and safety inspection shall be subject to reinspection and reapproval.

9.7. LOSS OF BODYWORK

All major body components such as front and rear hoods, fenders, doors, and windscreens shall be maintained in normal position throughout the competition. If loss of bodywork is a safety hazard, the car may be black-flagged. A car completing a competition with bodywork missing may be penalized.

9.8. WEIGHT

All cars shall meet or exceed the minimum weight specified with driver, exactly as they come off the race circuit, at the conclusion of a race or qualifying session. Cars found to be underweight at impound are subject to penalty and shall have it noted on the next page of the Vehicle Logbook. The car shall be weighed at the next event and meet the proper minimum weight before being allowed to qualify.

9.8.1. BALLAST

Ballast may be added to all cars as required, to meet minimum weight, provided it is securely mounted within the bodywork and serves no other purpose.

9.9. NOISE

Noise limiters are suggested for any car whose sound level is above the decibel levels outlined in the GCR. Cars deemed to be too loud by the Chief Steward and another event official, the entrant shall be instructed to effect changes before their next run at that event or before the next event.

9.10. BATTERIES

Battery location is unrestricted within the bodywork (except Spec Miata, Touring, and Improved Touring). If located in the driver/passenger compartment, wet cell batteries shall be in a nonconductive marine type container or equivalent. The hot terminal shall be insulated on all cars. All batteries (on-board power supplies) shall be attached securely to the frame or chassis structure independent of the marine type container.

9.11. FUEL CELLS

Requirements for fuel cells are waived in Track Trails and Hillclimbs. Any car equipped with a fuel cell must meet all requirements of GCR section 9.3.27 and all its subsections.

9.12. AERODYNAMIC SKIRTS

Aerodynamic skirts are prohibited in Time Trials competition events except where allowed by Regional classes defined by Supplemental Regulations.

9.13. ACCUMULATORS (E.G., ACCUSUMPS)

An accumulator (e.g., Accusump) may be installed (except for Touring and Spec Miata). Location is free, but it shall be securely mounted within the bodywork. All oil lines that pass into or through the driver/passenger compartment shall be of metal braided hose (e.g., Aeroquip).

9.14. TRACK

Track is the distance between the centerlines of the wheels as raced, without driver, measured at a horizontal plane through the wheel hub centerline. Alternatively, it may be measured from the inside of one wheel at the hub centerline height to the outside of the other wheel, then conversely from the outside of the first wheel at hub centerline to the inside of the second wheel. The two (2) dimensions obtained are to be added together and divided by two to obtain the average. Measurements are to be taken at both front and rear of the wheels and averaged to compensate for toe-in/out. Under certain circumstances it may be preferable to measure from the outside of one wheel to the outside of another and from this dimension deduct the thickness of one wheel. This should be repeated 180° opposite to the first measurement and the two dimensions averaged.

9.15. WHEEL RIM WIDTH

Wheel rim width shall be measured at the base of the bead seat.

9.16. LIGHTS - BRAKE AND TAIL

All non-Formula cars shall have two operating red brake lights. All Formula (open wheel) and Sports Racer cars shall be equipped with a red taillight of at least the equivalent illumination power of a fifteen (15) watt bulb. This light shall be mounted as high as possible on the centerline of the car and be clearly visible from the rear. The taillight shall be illuminated when ordered by the Chief Safety Steward.

9.17. VENTILATION

All closed cars shall run with both front door windows fully open.

9.18. FIREWALL AND FLOOR

Firewall and floor shall prevent the passage of flame and debris into the driver's compartment. Belly pans shall be vented to prevent the accumulation of liquids, except composite/honeycomb structures. All rear-engine Formula cars are required to have an under tray, from driver's foot area to the firewall, for protection of legs and torso.

9.19. FIRE SYSTEM

All cars shall meet one of the following minimum requirements:

1. On-board fire system per GCR 9.3.23.A.
2. Halon 1301 or 1211, two (2) pound minimum capacity by weight.
3. Dry chemical, two (2) pound minimum with a positive indicator showing charge. Chemical: 10 BC Underwriters Laboratory rating, potassium bicarbonate (Purple K) recommended, 1A10BC Underwriters Laboratory rating multipurpose, ammonium phosphate and barium sulfate or Monnex.

The fire extinguisher shall be securely mounted in the cockpit. All mounting brackets shall be metal and of the quick-release type.

9.20. REQUIRED DRIVER SAFETY EQUIPMENT

Driver's Safety Equipment requirements are specific to the category of Time Trials event.

Drivers must adhere to section 9.20, paragraphs 1. through 8. as written in the SUPPS in its entirety. The following equipment shall be in good condition and free of defects, holes, cracks, frays, etc.

1. Driving suits that effectively cover the body from the neck to the ankles and wrists. One piece suits are highly recommended. All suits shall bear an SFI 3.2A/1 or higher certification label or FIA 1986 Standard or FIA Standard 8856-2000 homologation label. Underwear of fire resistant material shall be used, but is optional with suits carrying an FIA Standard 1986 Standard or FIA Standard 8856-2000 label or SFI 3-2A/5 or higher (e.g., /10, /15, /20) certification label.
2. Crash helmets approved by the Snell Foundation with Snell sticker 2010 or later Special Application (SA10), or by the SFI with a SFI Sticker 31.1a for open faced helmets and a SFI sticker 31.2a for closed faced. NOTE: Snell M rating is not allowed for T i m e T r i a l and Hillclimb events. The back of each driver's helmet should be labeled with a minimum of the driver's name. The use of a head and neck support system is highly recommended. Accident damaged helmets should be sent by the driver or his or her representative to the Snell Memorial Foundation, 3628 Madison Ave., North Highland, CA. 95660 (ph.) 916-331-5073 (attn. Edward B. Becker). Details of the accident should be included. Freon based total loss helmet cooling systems are not allowed.
3. Gloves made of leather and/or accepted fire resistant material containing no holes.
4. Socks made of accepted fire resistant material.
5. Face coverings (balaclavas) of accepted fire resistant material for drivers with beards or mustaches. Hair protruding from beneath a driver's helmet shall be completely covered by fire resistant material. As an alternative to balaclavas, a full helmet skirt of accepted fire resistant material may be used. Double-layer balaclavas are recommended. If balaclavas are used voluntarily, they shall be of accepted fire resistant material.
6. Goggles or face shields, preferably made of new impact resistant materials, for drivers of open cars.
7. A driver's restraint system meeting SUPPS Section 11 shall be used at all times while on the track.
8. Shoes, with uppers of leather and/or nonflammable material that at a minimum cover the instep. Ventilation pinholes by the manufacturer are allowed.

9.21. SCATTERSHIELDS/CHAIN GUARDS

The installation of scatter shields or explosion-proof bell housings shall be required on all cars that do not have a stock firewall/tunnel (e.g. GT, Formula, and Sports Racing classes), or where the failure of the clutch or flywheel could create a hazard to the driver. Chain drive cars shall be fitted with a protective case/shield to retain the chain in case of failure. Minimum material specifications are:

.125 inch SAE 4130 alloy steel

.250-inch mild steel plate

.250-inch aluminum alloy

NHRA or SFI approved flexible shields.

9.22. DETACHABLE PANELS/SUNROOFS

All cars with detachable hardtops, detachable panels, and detachable doors (e.g., Lotus 7) shall be removed, unless authorized in the Category Rules or Specification Book for that car to remain in place. Movable panels such as sliding sunroofs shall be closed. It is highly recommended that glass sunroofs be removed as follows: All sunroofs may be replaced with panel or replacement skin of the same material as the original surrounding roof material. Note: Specification Books take precedence over SUPPS rules.

9.23. OIL CATCH TANKS, FILTERS, AND BREATHERS

It is highly recommended that oil holding tanks and engine breathers, whether directly or indirectly ventilating the crankcase, and all transmission/transaxle breathers shall be equipped with oil catch tanks. For any purpose built race car the oil catch tank is required

(e.g. any GCR class car unless otherwise specified as exempt in the current GCR). Minimum catch tank capacity shall be one U.S. quart for the engine and transmission/transaxle. Oil holding tanks and oil filters may be mounted in the driver/passenger compartment. A metal bulkhead shall prevent exposure of the driver to oil spillage. Oil catch tanks shall vent into the engine compartment or outside the driver's compartment. A crankcase vacuum breather that passes through the oil catch tank(s) to exhaust systems or vacuum devices that connect directly to exhaust systems is prohibited.

9.24. MASTER SWITCH

It is highly recommended that all cars be equipped with a master switch easily accessible from outside the car. For any purpose built race car the master kill switch is required (e.g. – any GCR class car unless otherwise specified as exempt in the current GCR.) Spec Racer Fords shall be wired per RFSR II. The master switch shall be installed directly in either battery cable and shall cut all electrical circuits but not an on-board fire system. All terminals of the master switch shall be insulated to prevent shorting out. It shall be clearly marked by the international marking of a spark in a blue triangle and mounted in a standard location. Off position shall be clearly indicated at the master switch location. The standard locations shall be as follows:

- 1 FORMULA AND SPORTS RACING CARS -- In proximity to the right-hand member of the roll bar, but in a location so that it cannot be operated accidentally. It can be mounted on a bracket welded to the inside of the upright member or mounted so that the operating lever or knob is outside of the body panel immediately in-board of the upright member. This is the standard location on Formula cars built to the Constructor's Association requirements for Formula 1.
- 2 CLOSED SPORTS RACING CARS, PRODUCTION CARS, IMPROVED TOURING, SPEC MIATA, AND GT CARS -- In front of the windshield on either the cowl or on top of the fender, but close enough to the windshield to be accessible if the car is overturned. Alternatively, it may be mounted below the center of the rear window or on a bracket welded, clamped or bolted to the roll cage or dash, easily accessible through the open window. (Drilling of holes in roll cage to attach the bracket is prohibited.)
- 3 OPEN PRODUCTION, GT AND IMPROVED TOURING CARS – May exercise a choice among the above locations.

9.25. STEERING WHEEL LOCKS

It is highly recommended that all cars with steering wheel lock devices have the devices removed (except Touring).

9.26. FORMULA CAR VISIBILITY

The driver of all Formula cars shall have a field of vision of not less than ninety (90) degrees to either side (total of 180 degrees) with both eyes by turning his or her head, but without lifting his or her head forward or otherwise moving from the normal driving position. Plexiglas or similar uncolored transparent material may be substituted for existing bodywork. "Token" portholes do not satisfy this requirement. Only a structural member such as a roll bar brace or frame tube may interrupt the required field of vision.

9.27. WINDOW SAFETY NETS/ ARM RESTRAINTS

Window safety nets or arm restraints are required. Arm restraints are required on all open cars. Closed cockpit cars may use either arm restraints or a driver's side window net. If window nets are used, they must meet the following requirements. All window nets shall meet SFI Specification 27.1., and shall bear an "SFI Spec 27.1., Label" to that effect. The window net shall be equipped with a quick-release device. Nets shall be attached to the roll cage; plastic buckles, hose clamps and elastic cords are not permitted. Holes in the roll cage to accommodate either support rod are unacceptable unless bushed and welded completely. Refer to Figures 1 and 2, "Proper Window Net Installation," for additional information on mounting methods.

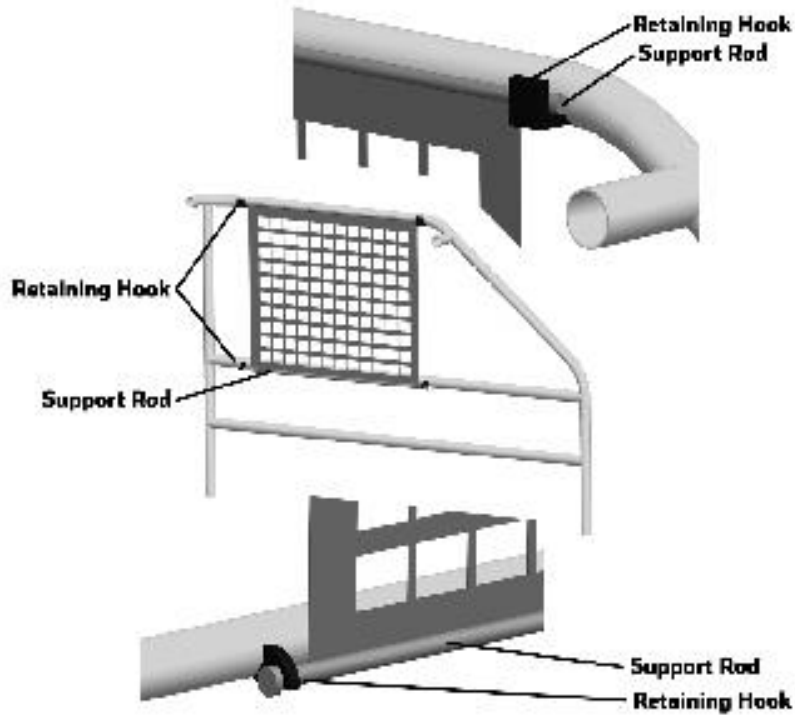


FIGURE 1

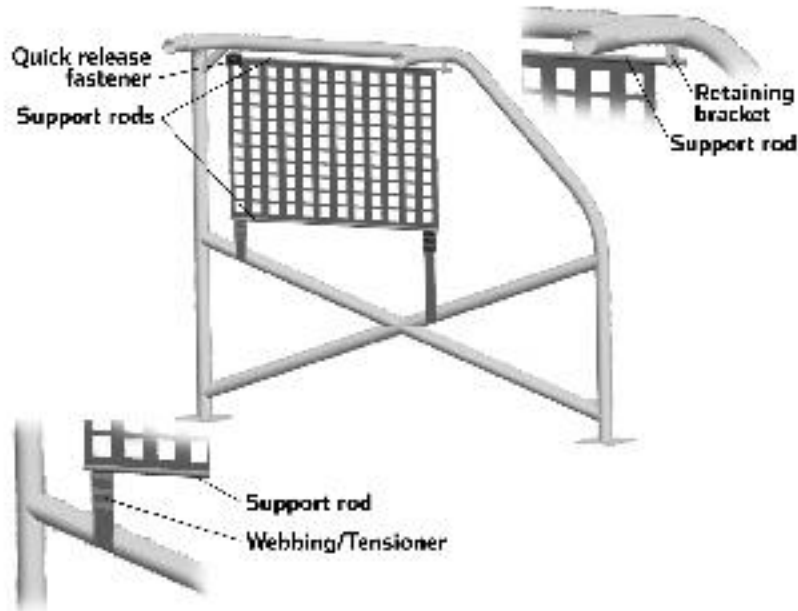


FIGURE 2

9.28. TOWING EYES

Towing eyes are recommended but not required on all cars.

9.29. WHEEL FANS

Wheel fans are permitted, unless otherwise restricted.

9.30. WINDSHIELD CLIPS/REAR WINDOW STRAPS

It is recommended that windshield safety clips and rear window safety straps be installed on all closed cars (except Street Prepared, street Modified, Spec Miata, Touring and Improved Touring) where OEM glass is installed. If windshields or rear windows are non-OEM glass (e.g. – Lexan, etc.) then the clip and/or straps are required.

- Three (3) clips (3 inch x 1 inch x 1/8 inch) shall be bolted or riveted to the body at the top of the windshield.

- Two (2) clips (3 inch x 1 inch x 1/8 inch) shall be bolted or riveted to the cowl and extend over the bottom edge of the windshield. Clips shall be spaced a minimum of twelve (12) inches apart.
- It is recommended that three (3) one (1) inch wide strips of steel or aluminum be installed behind the windshield to support it from collapsing inwards if it becomes damaged. The rear window shall be secured with two (2) metal straps (1-inch-wide x 1/8-inch-thick) bolted or riveted to the body at the top and bottom of the rear window.

9.31. FUEL AND OIL LINES

All fuel and oil lines, including gauge and vent lines, which pass into or through the driver/passenger compartment, shall be of steel tube, metal braided hoses or bulk headed.

9.32. DATA COLLECTION DEVICES

Data collection devices are considered to be instrumentation and therefore allowed in all classes that permit the installation, replacement or addition of gauges, indicators or instrumentation.

9.33 OIL AND OIL ADDITIVES

Any oil or oil additive may be used. Oil additives are defined as: Any liquid or particulate compound(s) delivered into the engine via the engine oil for the purpose of friction/temperature reduction, and/or metal surface conditioning (i.e. PTFE resins (Teflon, "Slick-50"), Molybdenum Disulfide, etc.).

9.34. CRYOGENIC TREATMENT

Cryogenic treatment of components is allowed unless specifically prohibited in the category or class preparation rules.

9.35. AUTOMATIC TRANSMISSIONS AND HAND CONTROLS

Allowed for Time Trials and Hillclimbs.

9.36. CAR ELIGIBILITY: Open to all categories listed in the current GCR, Solo Street Prepared, Street Modified and the supplemental classes listed below. All classes shall meet the safety requirements of the TTR. These classes include:

GCR Classes

Spec Miata (SM)	Touring (T1, T2, T3, T4)
Spec MX-5 (SM5)	Super Touring (STU, STL)
Super Production (SPO, SPU)	Production (EP, FP, HP)
Grand Touring (GT1,GT2,GT3,GTL, GTA, <u>GTX</u>)	American Sedan (AS)
Improved Touring (ITA,B,C,R,S)	B-Spec (B-Spec)
Sports Racers (ASR, P1, P2, SRF)	FA,FB,FC,FF,FE,F5,FM,FV*,FS,CF,FST

*Note: phase-in to new spec tire permitted in 2019

Super Production

Cars running Super Production according to the GCR Specifications shall be separated according to the following displacements:

SPU – normally aspirated cars of displacement 2999 cc or under, and forced-induction cars 1999cc and under

SPO – normally aspirated cars displacing 3000cc or over, and forced-induction cars 2000cc and over

All rotary engined cars will apply a 1.5 displacement multiplier when determining class.

Solo Classes (Car Requirements per Solo Rules, Safety per TTR)

Street Prepared (SSP,ASP,BSP,CSP,DSP,ESP,FSP)	Street Modified (SM, SSM)
	Street Modified Front Wheel Drive (SMF)

Supplemental Classes (as defined below)

Vintage (V1,V2,V3)	Historic (H1,H2,H3,H4)	Rally NA, Rally FI
Solo V (SV)	SMX	Special (S1, S2, S3)
Inex	Modified Electric (ME1 & ME2)	Stock Electric (SE)

VINTAGE/HISTORIC: Cars shall be prepared to and in possession of the SCCA Vintage Rules. A vintage or historic car will not be able to compete at full competition speed unless it conforms to the current safety/roll bar rules specific in the current GCR, TTR. If a car does not conform to these specifications, it may be allowed to take exhibition runs at the posted road speed limit with no time posted. No exhibition runs will be allowed at track events. In Historic 1, 2 and 4 carburetors and intake manifolds, valve rockers and brakes are free. Transmissions are free as long as they have the same number of forward gears. Rear tube shocks can replace lever shocks. Fender flares composed of steel, fiberglass or aluminum are allowed. No racing slicks are allowed in any of these classes.

- Vintage 1 (V1) – 1950-1962 Sports Cars and Sedans 2000cc and under
- Vintage 2 (V2) – 1950-1962 Sports Cars and Sedans Over 2000cc
- Vintage 3 (V3) – 1950-Pre 1967 Sports Racing and Formula Cars

- Historic 1 (H1) – 1963-Pre 1973 Sports Cars and Sedans 1301cc to 2000cc
- Historic 2 (H2) – 1963-Pre 1973 Sports Cars and Sedans Over 2000cc
- Historic 3 (H3) – 1967-Pre 1973 Sports Racing, FIA, Can-Am and 1967-Pre 1973 Formula Car, All Formula 5000
- Historic 4 (H4) – 1963-Pre 1973 Sports Cars and Sedans 1300cc and under

RALLY: There will be two classes: Forced Induction with a 34mm restrictor plate (Rally FI) and Naturally Aspirated (Rally NA). All cars must meet the classing and safety requirements and possess a current rule book from one of the following series:

- Rally America
- NRS (NASA Rally Sport)
- CARS (Canadian Association of Rally Sport)
- SCCA.

SOLO V (SOLO MODIFIED CLASS F): Car preparation must meet the Solo V specifications set forth in the SCCA Solo regulations. Both car and driver must meet the safety requirements outlined in the TTR.

STREET MOD EXTREME (SMX)

The intent of this class is to allow production vehicles modified beyond the boundaries of the Street Modified and Improved Touring classes.

ELIGIBLE VEHICLES

All 2 and 4 seat production vehicles.

Front, rear and all-wheel drive configurations are allowed.

Pick-up trucks are allowed.

Kit cars, purpose-built race cars and specialty constructed vehicles are not allowed.

Eligibility subject to approval by race officials.

REQUIREMENTS

(1) ROLL CAGES:

Roll cages prepared to Improved Touring standards (as specified in the GCR) or better are required for all vehicles.

Additional tubing and bracing beyond what is allowable in IT for the purpose of strength and chassis stiffness are permitted and encouraged.

Tubing may pass through firewall and brace to strut towers, all holes in firewall must be resealed.

(2) Battery shut-off switch

- All cars must have a shut-off switch marked and accessible by corner workers from outside of the car

(3) Non-FIA seats require a GCR-compliant seat back brace.

(4) OTHER:

All automobile and safety requirements as specified in section 9 in the PHA Supplementary Rules are required.

ALLOWED MODIFICATIONS

All allowable modifications permitted for the Street Modified and/or Improved Touring categories are authorized. In addition, the following modifications are allowed:

(1) ENGINE

- Engines must be of a production type
- Cross manufacturer swaps are permitted. Ex: Ford engine in a Chevy platform, etc.
- Aftermarket blocks are permitted. Ex: Dart, World Products, etc.

(2) SUSPENSION

- Suspension components and mounting points are unrestricted
- No moving suspension parts are allowed inside the passenger compartment
- After-market K-Frames, Sub-frames and full frames are permitted
- Swapping from strut type to a-arm type and solid axle to independent type suspension is permitted

(3) STEERING

- Steering column will be a collapsible column
- The rest of the steering components are unrestricted

(4) BODY

- Structure forward and rearward of shock/strut tower may be removed, modified, or replaced (ex. Replace with tubing to mount radiators or intercoolers, or replace factory bumper support with tubing)
- Headlights and taillights may be removed or replaced
- Side door glass may be removed to accommodate roll cage construction for side impact protection
- Factory glass may be replaced with Lexan, must retain windshield, rear ¼ windows, and rear window. Lexan windows must be minimum 1/8" thickness
- Windshield wipers may be removed or replaced

- Body panels may be replaced (ex. Fiberglass doors, hood, trunk, etc.)
- Bumpers and/or bumper covers may be removed or replaced

(5) SUBFRAME CONNECTORS

- Unrestricted

(6) TIRES

- All vehicles will use DOT tires as specified for the Street Modified category

(7) AERODYNAMIC AIDS

- Front splitter will extend no further than 12" beyond past the forward most portion of the front bodywork, and no more than 6" wider than the widest part of the body. Splitter can extend as far back as desired
- Rear wing will extend no further back than 12" past the rearward most point of the body, and no more than 6" wider than the widest part of the body. Height is unrestricted
- Underbody aero permitted (ex. flat bottom)
- Rear diffusers permitted, may not extend further than 12" beyond rearward most point of the body

SPECIAL CLASSES: Automobiles that are of a design and construction not covered in the TIME TRIALS RULES or these SUPPS may be placed in one of three classes based on engine displacement. All cars competing in this category shall conform to the following specifications:

- Meet the safety requirements as outlined in the TTR.
- Have operating suspension on all wheels.
- The chassis must be equally distributed along the centerline of the car.
- The body style may be open or closed wheel.

Class by engine displacement (multiplication factor of 1.5 shall be used for forced induction)

S1 – 0 to 1650cc

S2 – 1651 to 3500cc

S3 – 3501cc to 500 cubic in

INEX Classes

There shall be two INEX-based classes, as listed below.

IS (INEX Spec) - This class shall be open to all "600 Racing" produced cars that are recognized as INEX or "Legends" cars (including but not limited to Legends, Bandoleros, and Thunder Roadsters), and shall conform to all current INEX rules, including tire specifications.

IM (INEX Mod) - This class shall be open to any car originally manufactured by 600 Racing that has been modified within the limitations below. These modifications are to be allowed in excess of any current INEX rules. Any car modified in any way other than, or in excess of, the limitations below shall not be eligible for this class. If a modification is not specifically mentioned in the INEX rules or below, it is prohibited.

Engine/Drivetrain- The original engine block and cylinder head must be retained. Crankshaft may be replaced, so long as stroke remains stock. Any fasteners may be used. No material may be added to any engine part to facilitate any allowed modification. Engine "tamper seals" need not be present. Parts may be lightened and/or balanced. Connecting rods and pistons may be replaced. Blocks may be bored within the limits of the block. Cylinders may not be re-sleeved except to repair to the original bore. Any oil pan may be used, but dry-sump systems are prohibited. Camshafts are free. Cylinder heads may be ported. Any ferrous valve may be used. Other valve train components are free.

The original intake manifolds must be retained, but may be ported. Carburetors may be replaced by similar units (one venturi feeding each individual cylinder), with no larger than 40mm chokes (venturis). Tuning parts (jets, etc.) may be changed for tuning purposes. The carburetor must be attached to the manifold in the stock configuration.

Clutches may use the aluminum basket "road race" allowance according to INEX rules.

Rear gear ratios, axle shafts, and differentials are free, but must fit within the stock, unmodified rear axle housing.

Exhaust must remain stock, except that coatings may be applied to exhaust components.

Any automotive-type ignition system may be used. Rev limits may be changed or removed.

Suspension- Dampers (shocks) and springs may be replaced, but must utilize original mounting points. Sway bars (anti-roll bars) may be added, removed, or replaced. Ride height must be a minimum of three (3) inches (measured to the bottom of the frame rail) as raced, with driver.

Any tire may be used. Wheels may be replaced with those that have a diameter and effective width that is the same as stock.

MODIFIED ELECTRIC: (ME1 & ME2)

This class is for electric cars made for, or modified for, racing.

- Electric specific racing classes: ME-2: Up to and including 200kw (~268 bhp), ME-1: Over 200kw.
- The vehicle must be totally powered by battery power; no other fuel may be used.
- All batteries must be fully contained in enclosures that may be sealed by race tech officials.

- (4) A forced battery ventilation system must be fitted and must be rated at least 10 cfm. Not required if thermally stable batteries, such as Lithium Ferrous Phosphate (LiFePO₄) are fitted.
- (5) Material Safety Data Sheets or Safety Data Sheets must be available upon request by safety and tech officials.
- (6) Any electric cables in the system must be the proper size to safely carry the current from the batteries without overheating.
- (7) Any conductor or non-insulated area that is exposed must be properly insulated and labeled as high voltage with proper warning signs.
- (8) A fuse, not a circuit breaker, must be in series with the main power source and cannot exceed 200 % of the expected battery draw at full load of system.
- (9) Vehicle must have a master disconnect switch that will completely disconnect the vehicle from the power source.
 - This switch must be clearly marked for both on and off positions.
 - This switch must be accessible by the driver and safety personnel from outside the vehicle.
- (10) There are no restrictions on vehicle weight.
- (11) These vehicles may have custom made frames and bodies.
 - All frames must be of good quality design and fabrication.
- (12) The driver of the vehicle shall be seated between the front and rear axles.
- (13) All flywheels must be covered with an NHRA approved scatter shield/blanket and labeled with proper SFI label or equivalent as specified in section 9.21 of these Supps.
- (14) The driver must be shielded from any other rotating parts.
- (15) This class requires roll cage as specified in section 10.4 of these Supps.

STOCK ELECTRIC: (SE)

This class is for production electric vehicles and they must be run as manufactured with the exception of the safety requirements listed below.

1. No hybrid vehicles will be allowed, vehicle must operate totally on electricity, no other fuel may be used.
2. No modification to the vehicle is allowed except for the safety changes listed below.
3. All flywheels must be covered with an NHRA approved scatter shield/blanket and labeled with proper SFI label or equivalent as specified in section 9.21 of these Supps.
4. The driver must be shielded from any other rotating parts.
5. This class requires a minimum of a roll bar as specified in section 10 of these Supps.

10 ROLLBAR/CAGE

Roll cages are recommended in all automobiles; however specific roll structure requirements depend on the level of Time Trials event attended. In any case, participants should strive to prepare their car to the highest level of safety that is feasible, and the following sections are set as the MINIMUM roll structure requirements for each level. It is strongly suggested that competitors consider which Level they may wish to compete in the future before constructing their roll structures to simplify future upgrades.

For the purposes of this section a roll bar is defined as a main hoop, placed behind the driver, supplemented by two braces. A roll cage is defined as a main roll hoop with at least 4 additional mounting points including aft braces and either a front halo with down tubes or a high or low front hoop with diagonals connecting to the main hoop.

The Technical Staff of Club Racing shall have the responsibility to ensure specification compliance with SCCA safety standards. To that end, the Technical Staff of Club Racing may or may not accept alternate construction standards from any source that significantly vary from SCCA standards of protection.

10.4. PHA EVENTS (Time Trial and Hillclimb)

Roll cages (as specified in the GCR) are required for the following classes: GT1, Specials, Super Production, all Formula classes, all Sports Racer classes, open GT, Rally, SMX, SSM*, SM*, SMF*, Modified Electric, and open Production vehicles. In these vehicles, the roll cage structure must meet current GCR requirements for the specific class. If the vehicle does not fall into a Club Racing class, the cage should be prepared to the GCR equivalent or greater (for example, a tube-frame Special car should be compared to a GT class cage, while a street-driven car that ends up in Special because of odd modifications could be comparable to a Production or IT cage).

* Note: A roll cage is required for any SSM, SM or SMF car that has an engine block that is not sourced from a car of the same brand. (See Solo Rules 16.1.D.1 for clarification of "same brand".)

All other classes at PHA events are required to have a minimum of a roll bar that meets the description in this section of the SUPPS.

If a car is running in a Vintage or Historic class and prepared to those specifications, they may run only a roll bar if no cage was used at the time the car was originally raced. This applies to all the cars with cage requirements, including Formulas (cars) and Sports Racers. Competitors are encouraged to use full roll cages if at all possible. The purpose of this tolerance is to allow for original race cars to be raced in original form (or as close as possible) without devaluing the vehicle by installing a full roll cage. This shall NOT be interpreted to apply to kit cars, special constructions, replicas, or any car that has been significantly modified from its condition as originally raced. Vintage and Historic cars may upgrade to current tires, batteries, incidental items, and other unavailable items to return the car to racing condition.

10.4.1. BASIC DESIGN CONSIDERATIONS

- A. The basic purpose of the roll bar is to protect the driver if the car turns over or is involved in a serious accident. This purpose should not be forgotten.
- B. The top of the roll bar must be a minimum of two (2) inches above the drivers' helmet when the driver is sitting in a normal driving position (as near the roof as possible on closed sedans) and shall not be more than six (6) inches behind the driver. In case of two driver cars, both drivers must be within the roll bar height requirement, however only one driver must be within six inches of the roll bar.
- C. The roll bar must be designed to withstand compression forces resulting from the weight of the car coming down on the roll structure, and to take fore-and-aft loads resulting from the car skidding along the ground on the roll structure.
- D. The two (2) vertical members forming the sides of the hoop shall not be less than fifteen (15) inches apart (inside dimension). It is recommended that the roll bar extend the full width of the cockpit to provide maximum bearing area in all soil conditions during rollovers. The roll bar vertical members on formula cars and other single seat cars with a center driver position must be not less than fifteen inches apart, inside dimension, at their attachment points to the uppermost main chassis member.
- E. An inspection hole of at least 3/16-inch diameter must be drilled in a non-critical area of a roll bar member to facilitate verification of wall thickness. This should be at least three inches from any weld or bend.
- F. It is recommended that steel gusset plates be used at all welds. Gussets should be at least two inches long on each leg and 3/16 inches thick.
- G. It is recommended that roll bars be coated only with a light coat of paint. If, however, a roll bar should be chrome-plated, it is recommended that the structure be normalized.
- H. Post or tripod types of roll bars are not acceptable.
- I. No portion of the safety roll bar shall have an aerodynamic effect by creating a vertical thrust.
- J. Roll cage or chassis design shall prevent engine intrusion into the driver compartment.

10.4.2. MATERIAL

- A. The roll bar hoop and all braces must be of seamless or DOM mild steel tubing (SAE 1010, 1020, 1025) or equivalent, or alloy steel tubing (SAE 4130). It is strongly recommended that roll bars not be constructed of ERW due to quality and strength concerns. Docal R8 is also considered an acceptable material (tube sizing and wall thickness requirements are as per SAE 4130).
- B. The size of tubing to be used shall be determined on the basis of the weight of the car. The following minimum sizes are required and are based upon the weight of the car without the driver.

<u>Vehicle Weight(lbs.)</u>	<u>Tubing Size (min.)</u> <u>Outside diameter x wall thickness (in.)</u>
<u>Over 1500</u>	<u>1.500 x .120 or 1.75 x .095</u> <u>1.625 x 0.080</u>
<u>1,000 – 1,500</u>	<u>1.250 x 0.090</u> <u>1.375 x 0.080</u>
<u>Under 1,000</u>	<u>1.000 x 0.060</u>

Dimensions are nominal. 0.005" (0.127 mm) variation in wall thickness is allowed.

- C. All cars utilizing a roll cage, including Formula cars and Sports Racers, refer to the current GCR for rules concerning materials, specifications and design.

10.4.3. FABRICATION

- A. One continuous length of tubing must be used for the roll bar hoop member with smooth continuous bends and no evidence of crimping or wall failure.
- B. All welding must be of the roll bar hoop be such that the minimum outside width measured at a point four (4) inches below the uppermost point is twelve (12) inches. Whenever possible the roll bar hoop should start from the floor of the car and, in the case of tube frame construction, be attached to the chassis tubes by means of gussets or sheet metal webs in order to distribute the loads.
- C. Welding shall conform to American Welding Society D1.1:2002, Structural Welding Code, Steel Chapter 10, Tubular Structures. Whenever D1.1 refers to "the Engineer" this shall be interpreted to be the owner of the vehicle. Welds shall be continuous around the entire tubular structure.
- D. All welds shall be visually inspected and shall be acceptable if the following conditions are satisfied:
 - 1. The weld shall have no cracks.
 - 2. Thorough fusion shall exist between weld metal and base metal.
 - 3. All craters shall be filled to the cross section of the weld.
 - 4. Undercut shall be no more than 0.01 inch deep.
- E. Aluminum bronze or silicon bronze welding technique is permitted, but extreme care shall be used in preparation of parts before bronze welding and in the design of the attaching joint.

10.4.4. BRACING

- A. Roll bar hoops must have two (2) fore/aft braces with tubing of dimensions at least equal to that required for the main hoop itself. Diagonal lateral bracing of equal dimension tubing must be installed to prevent lateral distortion of the hoop. (In most cases, a lateral brace from the bottom corner of the hoop on the side to the top corner of the hoop on the other side is sufficient). The following alternatives are permitted. Although installing the diagonal lateral brace in the main hoop is the strongest (and hence most preferable) alternative, there may be instances where such an installation is not practical. In such situations, the installation of the diagonal brace as shown in Figure 3 will be acceptable.

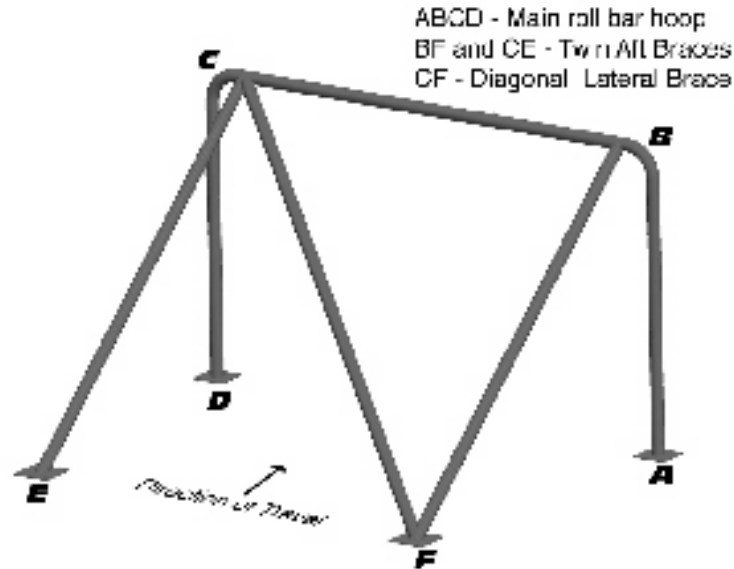


FIGURE 3

- B. The bracing must be attached as near as possible to the top of hoop, but not more than six (6) inches below the top of the hoop, and at an included angle of at least thirty (30) degrees. If a single brace is used, it must be attached at the top of the main hoop.
- C. If the fore/aft bracing must be removable, the connection between the roll bar hoop and the brace rod must be of the double-lug type fabricated from material at least 3/16-inch-thick and welded through a double or gusset arrangement to avoid distortion or excessive strains caused by welding. It is recommended that the fore/aft brace be attached to a chassis member through a double-lug connection.
- D. For the Mazda Miata, a "V" design, also known as a "double diagonal" used between the fore/aft braces is acceptable.

10.4.5. MOUNTING PLATES

- A. Roll bars and braces must be attached to the frame of the car wherever possible. Mounting plates may be used for this purpose where desired.
- B. In the case of cars with unitized or frameless construction, or cars with frames where frameless mounting of the roll bar is impractical, mounting plates must be used to secure the roll bar structure to the floor of the car. The important consideration is that the load be distributed over as large an area as possible. A backup plate of equal size and thickness must be used on the opposite side of the panel with the plates through-bolted together.
- C. Mounting plates bolted to the structure shall not be less than .1875 (3/16) inch thick and the use of a back-up plate of equal size and thickness on the opposite side of the panel with the plates through-bolted together is recommended. A minimum of 3 bolts per plate is required for bolted mounting plates. Mounting plates welded to the structure shall not be less than .080 inch thick. Whenever possible the mounting plate should extend onto a vertical section of the structure such as a door pillar.

10.4.6. REMOVABLE ROLL BARS

Removable roll bars and braces must be very carefully designed and constructed to be at least as strong as a permanent installation. If one (1) tube fits inside another tube to facilitate removal, the removable portion must fit tightly and must bottom on the permanent mounting, and at least two (2) bolts must be used to secure each such joint. The telescope section must be at least eight (8) inches in length.

10.4.7. INSTALLATION ON CARS OF SPACE FRAME AND FRAMELESS DESIGN

- A. It is important that roll bar structures be attached to cars in such a way as to spread the loads over a wide area. It is not sufficient to simply attach the roll bar to a single tube or junction of tubes. The roll bar must be designed in such a way as to be an extension of the frame itself, not simply an attachment to the frame. Considerable care must be used to add as necessary to the frame structure itself in such a way as to properly distribute the loads. It is not true that a roll bar can only be as strong as any single tube in the frame.
- B. On cars of frameless construction, consideration should be given to using a vertical roll bar hoop of 360 degrees completely around the inside of the car and attached with suitable mounting plates. This type of roll bar then becomes a substitute for the frame.

10.4.8. OTHER ROLL BAR DESIGNS (ACCEPTABLE FOR CARS BUILT PRIOR TO 1/1/79)

Roll bars of alternative material or design may be accepted by the Technical and Safety Inspector upon presentation of data verifying

the installation is able to withstand three (3) simultaneously applied loads: 1.5 G Lateral; 5.5 G Fore or aft; 7.5 G Vertical. The induced loads being carried over into the primary structure.

Royal Automobile Club (RAC) certification of alternative designs is acceptable for automobiles registered prior to January 1, 1979.

10.4.9. ROLL BAR PADDING

Braces and portions of the main hoop subject to contact by the driver's or passenger's helmet, as seated normally and restrained by seatbelt and harness, must be padded with a non-resilient material such as Ethafoam(R) or Ensolite(R) or other similar material with a minimum thickness of one-half inch. Padding meeting SFI spec 45.1 or FIA 8857-2001 is strongly recommended.

11 DRIVER RESTRAINTS

All drivers participating in Time Trial or Hillclimb events shall utilize either a five, six or seven-point restraint harness meeting the specifications.

A seven-point restraint harness is recommended for all events. Arm restraints are required on all open cars including open Targa tops, sunroofs and T-tops. The restraint system installation is subject to approval of the Chief Technical and Safety Inspector.

11.1. RESTRAINT REQUIREMENTS

1. A five-point system, for use in automobiles where the driver is seated in an upright position, consists of a nominal two (2) or three (3) inch seat belt, an approximately three (3) inch strap over the shoulder type of shoulder harness, and an approximately two (2) inch anti-submarine strap. A Five-point harness is considered a minimum restraint system. Six or seven-point systems are highly recommended in all cars including automobiles where the driver is seated in an upright position.
2. A six or seven-point system, recommended for use in all automobiles, consists of a nominal two (2) or three (3) inch seat belt, approximately a three (3) inch strap over the shoulder type of shoulder harness, and two approximately two (2) inch leg or anti-submarine straps. The seven-point system also has an approximately two (2) inch anti-submarine strap.
3. The material of all straps shall be Nylon or Dacron polyester and in new or perfect condition. The buckles shall be of metal to metal quick release type except in the case of leg straps of the six-point or seven-point systems where they attach to the seat belt or shoulder harness straps.
4. The shoulder harness shall be the over the shoulder type. There shall be a single release common to the seat belt and shoulder harness. When mounting belts and harnesses it is recommended that they be kept as short as reasonably possible to minimize stretch when loaded in an incident. The shoulder harness shall be mounted behind the driver and supported above a line drawn downward from the shoulder point at an angle of twenty (20) degrees with the horizontal. The seat itself, or anything added only to the seat shall not be considered a suitable guide. Guides must be a part of the roll cage or a part of the car structure. Only separate shoulder straps are permitted. ("Y" type shoulder straps are not allowed.) "H" type configuration is allowed.
5. The single anti-submarine strap of the five-point system shall be attached to the floor structure and have a metal to metal connection with the single release common to the seat belt and shoulder harness.
6. The double leg straps of the six point or seven-point system may be attached to the floor as above for the five-point system or be attached to the seat belt so that the driver sits on them, passing them up between his or her legs and attaching either to the single release common to the seat belt and shoulder harness or attaching to the shoulder harness straps. It is also permissible for the leg straps to be secured at a point common to the seat belt attachment to the structure, passing under the driver and up between his or her legs to the seat belt release or shoulder harness straps. All straps shall be free to run through intermediate loops or clamps/buckles.
7. Each seat (lap) and shoulder belt of the harness (5, 6, or 7 points) shall have an individual mounting point (i.e. 2 for seat belt and 2 for shoulder belt minimum). Six or seven-point system antisubmarine straps may share a mounting point with one or both seat (lap) belt(s). The minimum acceptable bolts used in the mounting of all belts and harnesses are SAE Grade 5. Where possible, seat belt, shoulder harness, and anti-submarine strap(s) should be mounted to the roll structure or frame of the car. Where this is not possible, large diameter mounting washers or equivalent should be used to spread the load. Bolting through aluminum floor panels, etc., is not acceptable.
8. All driver restraint systems shall meet one of the following: SFI specification 16.1 or 16.5, FIA specifications 8853/98, 8853/2016 or 8854/98 (per GCR 9.3.18.E.).
 - A. Restraint systems meeting SFI 16.1 or 16.5 shall bear a dated SFI Spec label. The certification indicated by this label shall expire on December 31st of the 5th year after the date of manufacture as indicated by the label. If for example the manufacture date is 2014 the fifth year after the date of manufacture is 2019. SFI labels, with expiration dates, expire on December 31st of the labeled expiration date.
 - B. Restraint systems homologated to FIA specification 8853/98 and 8854/98 will have a label containing the type of harness designation ('C-###.T/98 or D-###.T/98) and date of expiration which is the last day of the year marked. All straps in this FIA restraint system will have these labels.
 - C. If a restraint system has more than one type of certification label, the label with the latest expiration may be used.
9. Harness Threading: Assemble in accordance with manufacturer's instructions.
10. Certified nominal 2-inch shoulder harnesses are allowed when a head and neck restraint system meeting SFI 38.1 or FIA 8858 is used by the driver. Should the driver, at any time not utilize the head and neck restraint system, then 3-inch shoulder harnesses are required.