## Southern California Timing Association



## Rookie Orientation Booklet El Mirage

### Introduction

Welcome to Land Speed Racing!

In Southern California, Land Speed Racing takes place under the control of the SCTA - Southern California Timing Association, which represents 11 member clubs, of which, you must be a member of one to race. Each club has its own requirements for membership and contact can be made via the SCTA web site or found in the back of the SCTA Rule Book.

The El Mirage dry lakebed is located 40 minutes to the east of Palmdale or 30 minutes to the west of Victorville. The Bureau of Land Management manages the lakebed, and permits racing there for 6 months of the year – May through November (excepting August). A BLM fee is charged to enter the lakebed, so make sure you have either an SCTA season pass, or be prepared to pay \$15 per day at the El Mirage Visitor's Center when you enter.

Our racing boundaries are clearly defined by cones and signs and are patrolled by club members to ensure members of the public remain outside the dangerous areas (where the racing is taking place). Similarly, it is vitally important that racing vehicles remain inside the coned areas, as an accident involving members of the public would finish racing at El Mirage forever.

The SCTA is made up of volunteer members who have a love of racing and are prepared to put in large amounts of time to make it happen for everyone. It is a close-knit community that is dedicated to making racing safe and enjoyable for everyone who wants to try their hand at it.

Please remember that this book serves only as a guide to the Rookie Driver / Rider process. The final rules are found in the current year SCTA Rulebook, or for El Mirage specific rules, the current year El Mirage Procedures.

### **Your First Race**

After much blood, sweat and tears (not to mention money) you will be prepared for your first race as a rookie. Many rookie drivers are indoctrinated by more established race teams, while others come to the lake with a new car and new drivers. Below is a list of items you need to have or be prepared for:

- Logbook New logbooks are available for purchase at the Registration trailer for \$10. You must have a logbook to go through tech inspection. The serial number of this book is also stamped on a sticker which is placed on the roll cage of the car, ensuring that important information can be recalled. An example of a few important pages in the logbook can be found in Appendix A of this booklet.
- Tech Inspection Tech inspection is carried out by experienced volunteers who use a checklist to help you ensure your car / bike meets minimum SCTA standards. For a new vehicle or one that can exceed 200 mph, two inspectors are required to check the car out. Bailouts are also done at this time.



- Inspection Form This form serves two purposes, first it records all of your vehicle and class information, as well as driver details. The reverse side contains the inspection form. It is important to fill this in correctly, as failure to do so could cost you a record. If in doubt ask! A copy of the inspection form can be found in Appendix B of this booklet and on the SCTA web site.
- Driver's Gear Drivers must have all their safety gear available for inspection during tech. During this time SFI tags, expiry dates and specifications are examined to ensure all equipment is safe and appropriate for the speeds you plan to do.

### You should make sure you have the following items for inspection:

### **Car Driving Apparel**

- Racing suit
- Helmet
- Gloves
- Racing boots
- Head sock
- Racing socks
- Head and neck restraint device

### **Motorcycle Riding Apparel**

- Rider's Helmet
- Leathers
- Boots
- Gloves

• Bailouts – Every new driver must complete a bailout to prove that they can safely exit the vehicle in a timely manner. This is done fully suited up (with race suit, gloves, boots, helmet and neck restraint device on) and fully belted in. The driver must demonstrate their knowledge of the fire system, parachute release and other safety related equipment appropriate to the vehicle. They also must show that they can reach every important system, with the belts done up. It is a good idea to practice this process a few times before going to inspection.



New driver going through a bailout drill

• Registration Trailer – After having successfully completed tech inspection you take all your paperwork to the registration trailer. There you will receive your inspected sticker that will go on the window of your vehicle. You will not be permitted to race without one – so don't lose it! At this point you also hand over your completed Medical Form and sign a wavier that allows you to get your driver's wristband. Other team members will also have to sign the waiver and get wristbands also. Team members are issued a red band, drivers, a yellow.





### **Rookie Orientation**

Rookie Orientation takes place at El Mirage at 4pm on the day before racing begins (3pm in November). This initial meeting is only the first part of the orientation process. The group will meet at the Registration Trailer, but may move to the SCTA buildings weather (wind) depending. The Rookie Orientation Director, or other experienced driver takes the orientation. All rookie drivers and crews have to attend this meeting and bring with them a tow vehicle with a working CB. After the classroom portion is completed, drivers and crews will drive down the course with the instructor pointing things out on the CB to familiarize everyone with the course.

In the morning, all rookies will meet the instructor again and attend the drivers meeting, which begins at 7:10am at the start line. The rookies will stay on the start line and watch the first 5 - 10 cars leave the line. This is an excellent opportunity to learn how it's done. The group will then go together down to the finish line (timing lights) and again watch and learn how to stop and where to pull out. Only after this last portion of the instruction, will rookie stickers be issued by the instructor.

As rookies, you and your crew will be under much scrutiny. Each run will be watched carefully and signed off by an official on the rookie sticker attached to your helmet.

### Topics that will be covered during Rookie Orientation are:

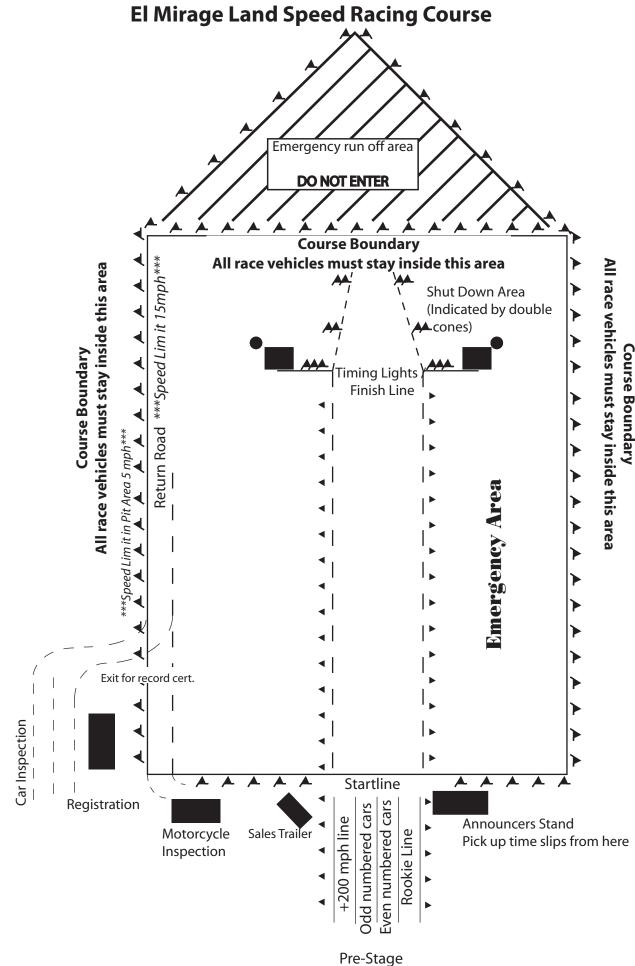
### **Course description**

The course is 1.3 miles long, 90 feet wide with a 1.3-mile shut down area after the timing lights. Orange cones designate the "track" and additional marker cones long the side of the course indicate our safety zones. Patrols sit at intervals along these coned off areas to prevent the public entering. The finish line is clearly marked with two very large orange end signs and large orange balloons. The shut down area narrows down and is shown by double sets of cones lining the track. A line of orange cones approximately 3 feet apart shows the end of the course. This line is also known as the back door. Racing vehicles are **NOT PERMITTED** outside these cones or outside the safety zones to the side.





Various vehicles going through the finish line / timing lights



### **Drivers Meeting**

Driver's meeting takes place at 7:10am at the starting line and follows the patrol meeting that starts at 7am. All drivers and crew members have to attend. Information about course conditions and procedures for that day are given at this time.



### **Crew Preparation**

• Role – The crew's job is to prepare the driver/rider and the race vehicle for a safe pass. It helps to go over everyone's roll, before getting up to the line.

### Jobs may include:

- Crew Chief (organizes everyone else),
- Dressing the driver / rider
- \* Strapping the driver in (includes wrist restraints)
- Warming up the car or motorcycle
- Pulling the fire bottle and parachute pins (always show the driver the pulled pins)
- \* Putting up the window net
- Providing shade for the driver / rider
- \* Cleaning the windscreen

Driver / Rider safety – Very Important. Some teams have a checklist of things that must be completed prior to a pass.

### These could include:

- Driver / Rider gear do you have it all
- Leathers have button to prove they have been checked at tech inspection (motorcycles only)
- Kill switch lanyard is present (motorcycles only)
- \* Checking restraints
- \* Checking arm restraints
- \* Ensuring driver can reach everything in cockpit
- \* Fire pins, parachute pins
- Going over instructions / procedures

### Other Considerations:

- Driver/ Rider comfort Sitting in the hot sun in a fire suit or leathers isn't comfortable. Provide an umbrella or some sort of shade.
- Driver / Rider instructions Driving or riding a race vehicle at high speeds for the first time is stressful and there is a lot to remember. Go over the instructions and procedures with your driver / rider multiple times.

### **Equipment**

- \* Fire bottles ensure all safety pins are pulled (check bottles for secondary pins)
- Parachute ensure parachute safety pin is pulled the driver will activate the chute when the cross the finish line.
- Kill switch is attached to rider (motorcycle only)
- Helmet is securely done up
- Working CB in tow vehicle make sure it is tuned to the correct channel (1 or 10)
- Fire Extinguisher in tow vehicle
- Tool box in tow vehicle be sure to include Dzeus tools if appropriate.

\*specific car items

### Line procedure

As a rookie, you will line your car up in the extreme right hand line. You will be permitted to race after the first 25 cars have left the line. When your vehicle is 3 back from the line, **be ready in your car - fully strapped in and ready to go.** It is beneficial to spend LOTS of time sitting in your vehicle getting familiar with the systems. *Try finding everything with your eyes closed*.



### **Rookie Pass – Driver / Rider and Crew**

As a rookie, you will attend a two part orientation which will familiarize you and your crew with the procedures at El Mirage. The rookie will also be under close scrutiny and each pass will be monitored by either the Rookie Director or appropriate Tech Chair, Chief Inspector, Starter or other official.

The rookie will need to make a clean pass under 150 mph. The officials observing the rookies may also designate other speed limits depending on the skill and performance of the driver / rider.

A clean pass is the goal and that means that the rookie followed the Starter's orders, went through the timing lights, pulled the chute (car only), kept the race vehicle straight, turned to the left (on a non-eventful run), and stopped on the course side of the return road (about 3 feet from the cones). Your crew is also under scrutiny. Officials are watching to see that they left the starting line turned to the left and drove down the return road, keeping to the speed limit. They then met you, and towed you back along the return road, at the speed limit.



### **Driving the course**

Where to go?

The Starter releases the race vehicle from the starting line. It then goes down the course, keeping within the cones. When leaving the starting line on your motorcycle, use caution not to spin the rear wheel. The course surface can be much looser than it looks.

### How to stop?

As a rookie, you MUST pull your parachute (car only) and come off the throttle when you cross the finish line / timing lights. In a car, the chute safely slows the vehicle, without relying on the brakes. It also prevents the course from getting cut up. On a motorcycle, coming off the throttle slowly, allows the rider time to slow down gradually, while maintaining control of the motorcycle and remaining inside the course boundaries.

### Where to stop?

After crossing the finish line, the race vehicle pulls the parachute (car only) and when slowed down sufficiently, turns off the course to the left and comes to a stop INSIDE the cones that mark the return road. Be careful to stop away from other race vehicles. You don't want to run over their parachutes, or have them run over yours or you.

### What next?

After stopping, exit the vehicle or dismount your motorcycle and have a look around to make sure everything is ok. Do you still have all your parts? Are all the tires still inflated? Is there any smoke or fluid loss? Gather up your parachute (if driving a car) and wait for your tow vehicle. Keep an eye out for other drivers / riders who are exiting the course.





### **Emergencies**

### What could go wrong?

Many things can go wrong with a run and not all of them are emergencies. If in doubt, turn to the RIGHT. Safety crews are watching and will come out to help.

- Fire In the event of a fire it is important to stop safely, shut off your engine and activate your fire system. Turn out to the RIGHT. Safety crews will come out and help put out the fire.
- Engine blows up Losing an engine may also cause a fire, in addition to leaving parts on the course. Turn out to the RIGHT. The course will also have to swept for parts.
- Lose control
  - Spin pull the parachute and stop safely.
  - Can't control car stop in the safest manner possible. Don't worry about not getting off the course stop safely.



- Can't see the course
  - If at any time you can't see the course it is your responsibility to come to a stop safely. This may include stopping in a straight line on the course.
  - Dust Dust gets into a race vehicle through any hole or imperfect seal. If you are unsure where you are and can't see pull the parachute (car only) and stop.
  - Obstruction Problems have included drivers who can't see over the steering wheel, dust storms that effect vision and things covering the windscreen.

### Race vehicle isn't running right

• Pull the parachute (car only) and turn out to the LEFT before the finish line and try again. This leaves the course clear for the next people in line behind you.

### Race vehicle feels strange

• This may be a case of inexperience or something may indeed be wrong. If in doubt, pull the parachute (car only) and turn out to the LEFT before the finish line and get some help. There are many experienced drivers or riders who would be happy to help if you are unsure.

### Motorcycle Specific Issues

- Tire spin at high speed can and will cause tire failure.
- Stopping should be done cautiously and smoothly. Using the brakes too harshly can cause a loss of traction and control. Sitting up in the wind to slow down can also cause a loss of control.

### What do I do Next?

### Licensing Runs

• While competing as a Rookie driver / rider, you are able to work though your licencing levels, under the close supervision of the Rookie Director, Tech Inspectors and Chairs, Race Director and Starters. The licencing levels are in your rule book. After running at the perscribed speed and making a clean run, you then take your timing slip to the Starter who saw you off and ask nicely if they would sign your license. This slip is then taken to the Record Certification Inspector at Impound, who will issue your licence for that speed level.

### **Next Meet - What Happens**

### **Starting Position**

• Your starting position is determined on your performance at the previous meet (or meets for that racing season). It is posted on the SCTA website under El Mirage Results.

### Records

• After your Rookie runs at your first meet, you are able to run against records. If you are lucky enough to break a record, then your race vehicle will need to be towed to impound (either Car or Motorcycle) and will be inspected for record certification. You will need the timing slip, log book and entry form (which was given to you at registration). The Record Certification Inspectors may look at fuel, engine size, the timing slip and class compliance. If everything is correct, the Record Certification Inspector will then issue you your record certification sheet. A formal certificate and red timing plaque will be issued at a later date.

# Official Vehicle Log Book Southern California Timing Association Note: It is the purpose of this Log to maintain an individual safety and legality history of the vehicle described within, thereby aiding continuity of information from one event to the next, regardless of what region in which a race takes place. A minimum of time and cooperation is required to properly fill in the pages which will result in a higher degree of race worthiness.

The below log book pages show the record of drivers who have done bailouts in this car.

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	Total States

	Record of Vehicle	Ownership	
Competition NoDat	te Log Issued	_Date of Construction	
Manufacturer/Builder			
Type of Vehicle	Org	nial Owner	
Major Modification for Class			
Second Owner			_Purchase Date
Major Modification for Class			
Third Owner			_Purchase Date
Major Modification for Class			
Fourth Owner			Purchase Date
Major Modification for Class		122	
	Technical & Safety	Information	
	200-10-10-10-10-10-10-10-10-10-10-10-10-1		
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Fore & Aft Bracing		11/14	
Supplemental Bracing			
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	Kill Switch	Fue	Shut Off
Wheel & Tire Assembly: Front_			onat on
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Sa	afety Equipment Cars	& Motorcycles	
Seat Belts Year Purchased	SEMA Tag No	_WidthNo. of	Connection Points
hute(s) No.of Chutes N			
Seat Belts Year Purchased	SEMA Tag No	No. ofDate	Last Filled

The above page shows the record of ownership and commonly used vehicle codes. The below page is a blank event record which must be filled in for each event or class change.

	Event I	Record	
Location: El Mirage Bonne	ville Muroc□ Other□	Event Date:Co	mpetition No
Engine ClassBod		Existing Re	
			Stroke
Normally Aspirated□ Supe	r Charged□ Turbocharged□	Gas□ Fuel□ Other□	
Body Classification:		Classification as inspected	
Modifications done for class			
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	1 /As		
Inspectors Sig	Safety Ins	spection	
1 Signature	Jan Jan Jan	Print Name	
r2 Signature		Print Name	
3 Signature		Print Name	
Driver No. 1:	Print Name	SCTA License NoClass:_	Yr. Issued_
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Oriver No. 1:	Print Name	SCTA License No. Class:	Yr. Issued_
Vehicle Repres Owner□ Driver□ Mechan Inspectors Comments	entative	Correction Print_	
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### ENTRY/ Inspection Form - Motorcycle Entry No.:\_\_\_\_\_ Log Book No.: Southern California Timing Association Class Record: \_\_\_ Bonneville Nationals, Inc. Motorcycle Classification: Engine Frame Disp. Class \_\_\_\_\_ Class \_\_\_\_ Computer Codes: Eng. Disp. Frame Code Code CAUTION: The computer codes on this form determine the class in which your vehicle (Please Print) is entered. There will be NO corrections allowed after the vehicle has left the start line. \_\_\_\_\_ New MC New Rider(s) Date: \_\_\_\_\_ SCTA Club: \_\_\_\_\_ Motorcycle Entry Name Engine Make/Year: \_\_\_\_\_ \_\_\_\_ No. of Cylinders: \_\_\_\_\_ Vehicle Make / Model / Year: \_\_\_\_\_\_\_\_ Blown Unblown Gas Fuel Actual Disp.\_\_\_\_\_ Special Features: \_\_\_\_ Owners / Responsible party's\* name: \_\_\_\_\_ \_\_\_\_\_ Home Ph: \_\_\_\_\_ \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_ Zip: \_\_\_\_ Address:\_\_\_ E-Mail address(es): \_ "The Entrant is either the Owner of the vehicle or the Owners's representative with full legal authority and responsibility to properly present the vehicle for competition at this SCTA/BNI Event. Entrant, owner(s) and driver(s), vehicle and vehicle identification must conform to SCTA rules regarding membership, qualifications, safety, competition class identification etc. to accrue points. I the owner(s) or entrant of the above described vehicle do hereby warrant that all the above facts are true and correct. If for any reason I am found in error on the above facts, or violate any rules or regulation of this event, I understand that I will be barred without consideration from any further competition during this event and the vehicle will accrue no points for the event." **Entrant Signature** Please read carefully before signing I, the undersigned, in consideration of the timing facilities and privileges extended to me, hereby agree on behalf of myself, my successors and assigns, that I shall accept full and entire responsibility for any and all consequences, injuries or otherwise that may arise from the operation of my vehicle operated by me in any race, timing event or other contest or event conducted by the Southern California Timing Association, Inc., Bonneville Nationals, Inc. and/or its members; and I hereby, in behalf of myself, my successors and assigns, release, covenant not to sue and waive any and all legal liability and/or cause of action that I may now have or hereafter acquire against the Southern California Timing Association, Inc., Bonneville Nationals, Inc. or any of its members or anyone employed or acting as timers, judges or any other capacity in conducting such races and/or timing event at the dry lakes or any other place. By my signature I swear and affirm that I have read and understand the rules and regulations of the event and will comply with them. I do understand that land speed racing is DANGEROUS and can result in injury, paralysis and/or death. Entrant's Signature: \_\_\_\_\_\_ Date: \_\_\_\_\_ Print name: \_\_\_\_\_ Competitor Log Book \_\_\_ Riders Signature: \_\_\_\_\_\_ Date: \_\_\_\_\_ Print name: \_\_\_\_\_ Competitor Log Book \_\_\_ \_\_\_\_\_ Date: \_\_\_\_ \_\_\_\_ Print name: \_\_\_ \_\_\_ Date: \_\_\_\_\_ Print name: \_\_\_\_\_ Alt. Rider's Signature: \_\_ INSPECTOR SIGNATURE REQUIRED: NEW MOTORCYCLES REQUIRE TWO INSPECTORS, OVER 200 mph REQUIRES TWO INSPECTORS, OVER 250 mph REQUIRES THREE INSPECTORS. FIRST INSPECTOR \_\_ SECOND INSPECTOR \_\_\_

200 mph line or long course qualified in this class? Yes: \_\_\_\_

THIRD INSPECTOR \_\_\_\_\_

Yes: \_\_\_\_\_ No: \_\_\_\_

SIGNATURE

\_\_\_\_\_ DATE \_\_\_

	Technical Inspection		
	Paperwork	1ST	1ST 2ND 3RD
1.A	TECH SHEET/LOGBOOK/TAG - check log no/tag, logbook comments, codes		
7.B.1	ENTRY NUMBER & CLASS DESIGNATION - contrasting, displayed correctly		
7.A.1	LICENSE - State Driver's License with motorycycle endorsement. SCTA - above 125MPH		

	Riding Apparel & Support Equipment	1ST 2ND	D 3RD
7.C.1	HELMET - check SCTA sticker, full-face with a shield, Snell tag M2010 or later		
7.C.2	RIDING SUIT - Good condition, 1-piece or 2-piece zip together, racing leathers		
7 C 3	BOOTS - suitable for motorcycle riding and at least 8" high		
7.C.4	GLOVES - Must be approved motorcycle leather racing gloves		
1.L	SUPPORT VEHICLE EQUIPMENT - Minimum 10 B:C rated fire extinguisher and CB Radio		
	Tires & Wheels	1ST 2ND	D 3RD
7.B.8	TIRE SPEED RATINGS - 0-70MPH Any motorcycle tire, 70 -150 Correct speed rating, 150-200 ZR rated	-200 ZR rat	pe
	200+ Race tires.		
7.B.8	TIRES - All Production (DOT) tires must be less than 10 yrs. old.		
7.B.8	TIRE CONDITION - must be good, without any repairs, no cords showing.		
7.B.9	TIRE VALVE STEMS & CAPS - must be metal		
7.B.9	RUBBER ANGLED VALVE STEMS (tubetype) - must be anchored to resist deflection		
7.B.10	WHEELS/SPOKES - check for loose or missing spokes, bent or cracked rims.		
7.B.15	AXLE NUTS & PINCH BOLTS must be secured by safety wire, pins or other devices		
	Fuel System	1ST 2ND	D 3RD
7.B.25	FUEL TANK - must be well constructed and securely mounted		
7 B 25	FUEL TANK CAP - shall be a positive locking type or screw-on		
7.B.24	FUEL FILTERS AND PETCOCKS - No plastic components, must be metal		
7.B.25	FUEL LINES - must be safely routed and secured by metal clamps, unless OEM.		
7.B.25	FUEL LINES - All unvalved lines are fireproofed, including tank crossover		
7.B.25	FUEL LINES - Clear fuel lines allowed if line is marked for fuel use'		
7.B.21	NITROUS OXIDE SYSTEM - Bottle shut-off protected, location marked, if covered		
	Controls	1ST 2ND	D 3RD
7.B.3	THROTTLE - self-closing, quickly and smoothly, no throttle locks allowed.		
7.B.23	BRAKE CONTROL(S) - operable with hand on handlebar or foot on foot peg		
7.B.2.1	ENGINE KILL SWITCH - positive off - not push and hold type, operable from grips		
7.B.2.2	ENGINE KILL LANYARD - Check operation and mounting angle		
7.B.2.3	FUEL PUMP STOP LANYARD - Required if engine kill lanyard does not shut-off fuel pump		
7.B.2.4	GASOLINE/FUEL PUMP SHUTOFF - operable from riding position, check operation		
7 B 2 E	ELIEL SHLITOEE - onerable from crine chack oneration (ELIEL OLASS)		

### 2ND 3F CHAIN GUARD - For ProductionModified Production classes OEM if original and provides coverage. CHAIN GUARD - For A/APS & Sidecar, metal construction, width 1 1/2 times chain or belt, and covers fro 2ND 3F 2ND 1ST 1ST 1ST BRAKES - Production class must have original front & rear, other classes, rear only. DRIVE SPROCKET, PRIMARY DRIVE AND CLUTCH - Must have side protection STEERING DAMPENER - required (ALL CLASSES) BALLAST - Located ahead of rear axle, securely mounted, metal hold downs only FOOT RESTS - required, location cannot expose rider to direct engine exhaust 7.B.2.5 FUEL SHUTOFF - operable from grips, check operation (FUEL CLASS) 7.B.4 CONTROL LEVERS have ball-ends, 1/2" minimum diameter 7.B.4 HANDLEBARS - hand grips must be located outside of the forks FORK STOPS - limits travel before hand touch or dampener bottoms center of front sprocket to rear edge of rear sprocket. Frame, Suspension & Steering Brakes Other 7.B.7 7.B.10 7.B.19 7.B.24 7.B.22 7 B 17 7.B.23 7.B.26

## ADDITIONAL REQUIREMENTS FOR MOTORCYCLE STREAMLINERS

PART CONTROL C	3.A.S		
	7 H 3	DRIVERS SUIT/HEADSOCK/SHOES/GLOVES - meet class requirements, SFI tags attached	
		1ST	2ND 3RD
	7.H.4		
	7.H.4	ROLL BAR and HEADREST PAD - required in helmet contact area (SFI approved)	
<del></del>	3.D.1	SEAT - securely mounted - bottom and back	
<del></del>	7.H.5	SEAT BELT/SHOULDER HARNESS/CROTCH STRAP • Must be securely mounted SH spec 16.1 w/tags over 5 years old, add1 strap required for reclined drivers. Approved limb restraints with a	gs, not
FUEL TANKS, BATTERY & FUEL LINES - Must be located outside of driver compartment has adequate venting HERSH AH NEWT - divere compartment has adequate venting WINDSHIELD - Stater-cessistant plastic or Lexan. 120 degree view. DRINESHED - Stater-cessistant plastic or Lexan. 120 degree view. DRINESHED - Stater-cessistant plastic or Lexan. 120 degree view. DRINESHED - Stater-cessistant plastic or Lexan. 120 degree view. DRINESHED - Control lard operation inside orage/deas, projections and other sources of injury BAIL-OUT DRILL. Verify driver is able to exit liner unassisted within 16 sec. CANDOY Check latch operation inside orage/deasy to operate with restraints on FIREFUELUGIANITRON-Dependent is read and out, atterior latch cleanly restrained.  IFRES-LEULGIANITRON-DRAPACHUTE CONTROLS Driver must admonstrate access/operation or each control while wearing hence is all and gloves and while properly restrained.  IFRES-Any tire within the driver compartment must have a fender to protect the driver.  IFRES-Any tire within the driver compartment must have a fender to protect the driver.  IFRES-Any tire within the driver compartment must have a fender to protect the driver.  IFRES-Any tire within the driver compartment must have a fender or protect the driver.  IFRES-Any tire within the driver compartment must have a fender or protect the driver.  IFRES DOTTLES - And and Driver's area, Over 150 mph. 2 more nozzles aimed at headerfoll pan FIRE BOTTLES One in driver's area, Over 150 mph. 2 more nozzles aimed at headerfoll pan FIRE BOTTLES State washers required on all helm joints (NO ALUMINUM) SHOCK ABSORBEERS - required to access engine compartment, clearly marked CHARSORBEERS - required to prevent damage to oil, coolent, fuel or brake lines PRARACHUTE - I required to access engine compartment, clearly marked SHODS - Must have positive lock in up & down positions, surface friendy design WHERMAL - Whell burn burnesh prevent admining the proper half only KEKAUST PIPE(S) - outlet(s) must be directed away from flowe	7 H 17	ort 3.3 spec dated zooo of later are required. Adjustable terners must use 3-bar system.  NITROUS OXIDE - no nitrous bottles in drivers compartment	$\dagger$
HEESH AHR VENT - driver compartment has adequate venting WINDSAILED. Shattler-castsant plastic of Laxan. To degree view.  WINDSAILED. Shattler-castsant plastic of Laxan. To degree view.  MINDSAILED. Shattler-castsant plastic of Laxan. To degree view.  GANLOVIT DRILL. Verify driver is able to exit liner unassisted within 15 sec.  GANLOPY - Check latch operation inside and out, exterior latch clearly marked 'Open'  STEERING CONITROL. Located inside and out, exterior latch clearly marked 'Open'  STEERING CONITROL. Located inside cageleasy to operate with restraints on  In FIREY CONITROL. Located inside cageleasy to operate with restraints on  In EREPTULIONITRONIPARACHUTE CONITROLS - Driver must demonstrate access/operation  In EREPTULIONITRONIPARACHUTE CONITROLS - Driver must demonstrate access/operation  In ERES SYSTEM. Under 100 plastic cageleasy to operate with restraints on  In ERES SYSTEM. Under 100 plastic cageleasy to operate with restraints on  In FIRE SYSTEM. Under 100 plastic compartment must have a fender to protect the driver  FIRE SYSTEM. Under 100 plastic compartment must have a fender to protect the driver  MINIMUMA AGENT RECUDIERMENTS - Must meet class/speed minimums  FIRE SYSTEM. Under 100 plastic compartment, clearly marked  HERN DOZZLES - One in driver's area, Over 150 mph. 2 more nozzles almed at header/ol pan  FIRE DOSS. — Los one in driver's area, Over 150 mph. 2 more nozzles almed at header/ol pan  FIRE DOSS - required to access engine compartment, clearly marked  HERN JOINTS - safety washers required for each spuriog wheel  BENDALMAL INSPECTON STICKER(S) - valid and readable without removing bottles  SKIDS - Must have positive look in upd & down positions, surface friendy design  WHEELS - Over captured, 2 required for each spuriog wheel  SKIDS - Must have positive look in upd & down positions, surface friendy design  Innage passing through inwall goes through upper half only  EXHAUST PIPE(S) - outlet(S) must be directed away from driver, wheels/sites and course  DRANDS Must have obvious	3.1	FUEL TANKS, BATTERY & FUEL LINES - Must be located outside of driver compartment	
WINDSHELD - Shatter-resistant plastic or Laxan. 120 degree view.  WINDSHELD - Shatter-resistant plastic or Laxan. 120 degree view.  BAIL-OUT DRILL - Verify driver is able to ext liner unassisted within 15 sec.  CANOCPY - Check latch operation inside and out, exterior latch clearly marked 'Open"  STEERING COUT DRILL - Verify driver is able to ext liner unassisted within 15 sec.  CANOCPY - Check latch operation inside and out, exterior latch clearly marked 'Open"  STEERING COUTROL - Located prise cagedessy to operate with restraints on Inference washers.  FIRE DOTES - must be securely mounted in dered earliers in Inference on Inference on Inference with Inference on Inference with In	7.H.6	FRESH AIR VENT - driver compartment has adequate venting	
DHAPEN SYARCE - Must be rea or since pages, propertors and other sources or injury BAL-OLD PRILL - Wardy driver is able to exit liner unassisted within 15 sec.  CANOOPY - Check latch operation inside and out, exterior latch clearly marked 'Open' STEERING CONTROL - Located inside eaglesay to operate with restantials on FIREFUELLIGNITOPRILL - Operates freely, rigidly mounted, must have steering stops BRAKE CONTROL - Located inside eaglesay to operate with restantials on FIREFUELLIGNITOWPARACHUTE CONTROLS. Driver must demonstrate access/operation to each control while wearing helmet, suit and gloves and while properly restrained.  THRES - Any tie within the driver compartment must have a fender to protect the driver THREOLIFEMENTS - Must meet class/speed minimums and propersion System:  THREOLIFEMENTS - Must meet class/speed minimums and propersion System:  MINIMUM MAGENT RECOURS BRINGS - Located in driver's area, over 150 mph - driver + engine FIRE BOTTLES - must be securely mounted - and readable without removing bottles of the BLANNUAL INSPECTON STICKER(S) - valid and readable without removing bottles of the BLANNUAL INSPECTON STICKER(S) - valid and readable without removing bottles of CHANS SHORES. Required for access engine compartment, clearly marked  HEIM JOUINS - stafety washers required on all heim joins (NO ALUMINUM)  SHOCK ABSORBERER S- required to access engine compartment, clearly marked  CHANNUAL INSPECTON STICKER(S) - valid and readable without removing bottles  CHANNUAL INSPECTON STICKER(S) - valid and ceach spuring wheel  CHANNUAL INSPECTON STICKER(S) - valid and prevent demage to oil, coolant, fuel or brake lines  PRARACHUTE - fequired to access engine compartment, clearly marked outside  SMOSS - Must have positive lock in up & down positions, surface friendly design  WHEELS - Over 200 mph must use race rims or be reinforced per 2.G  FIREWALL - Metal/O80 minimum thickness, all holes selled.  Inkage passing through firewall goes through upper half only  MADITIONAL SIDECAR WHEEL - the inside (lowar	7.H.7	WINDSHIELD - Shatter-resistant plastic or Lexan. 120 degree view.	$\dagger$
DATECTOR TOTALL STORM DATE IS SHORT FOR A MITHER UNDSERVED WITHIN THE PARKET OF THE A STORM THE OPERATION STEEPING CONTROL - Operates freely, rigidly mounted, must have steering stops BRAKE CONTROL - Located inside and out, exterior latch clearly marked 'Open' STEEFING CONTROL - Located inside and out, exterior latch clearly marked 'Open' BRAKE CONTROL - Located inside angeleasy to operate with restraints on the REAL FULL GIANTIONPARACHUTE CONTROLS - Driver must demonstrate access/operation to each control while wearing helmer, suit and gloves and while properly restrained.  FIRES - Any tire within the driver compartment must have a fender to protect the driver.  THROTILE OPERATION - self closing, quickly and smoothly.  FIRE SYSTEM - Under 180 mph nozabe located in driver's area, over 150 mph. 2 more nozabes aimed at header/oil pan FIRE SYSTEM - Under 180 mph nozabe located in driver's area, over 150 mph. 2 more nozabes aimed at header/oil pan FIRE WIZLES - One in driver's area. Over 150 mph. 2 more nozabes aimed at header/oil pan FIRE WIZLES - One in driver's area. Over 150 mph. 2 more nozabes aimed at header/oil pan FIRE BOTTLES - must be securely mounted - hose damps not acceptable  BI-ANINAL INSPECTION STICKER(S) - valid and readable without removing bottless  Chassis:  FIRE DOORS - required to access engine compartment, clearly marked  CHAIN GUARD - Positioned to prevent damage to oil, coolarly marked  CHAIN GUARD - Positioned to prevent damage to oil, coolarly marked  CHAIN GUARD - Positioned to prevent damage to oil, coolarly marked and course  SHOCK ABSORBERS - required for each sprung wheel  CHAIN GUARD - Positioned to prevent damage to oil, coolarly marked outside  SHOCK ABSORBERS - coquired for each sprung wine oil coolarly marked outside  SHOCK ABSORBERS - coding through frewall goes through upper half only  EKHAUST PIPE(S) - outet(s) must be directed away from driver, wheels/tires and course  DRAIN S- Must have acequate drain holes in the engine for the state of the state of the state of the state	7 H 14	DRIVER'S 'SPACE' - Must be free of sharp edges, projections and other sources of injury  BAIL OLIT DBILL Vorify driver in abla to a with linear unaccitated within 15 con	+
STEERING CONTROL - Operates freely, rigidly mounted, must have steering stops BRAKE CONTROL - Located inside cage/easy to operate with restraints on IF REFLUEL/LIGNITON/PARACHUTE CONTROLS - Driver must demonstrate access/operation to each control while wearing helmet, suit and gloves and while properly restrained.  THRES - Any tire within the driver compartment must have a fender to protect the driver THROTILE OPERATION - self closing, quickly and smoothly.  Fire Suppression System:  FIRE NOZZIES - Any tire within the driver compartment must have a fender to protect the driver THROTILE OPERATION - self closing, quickly and smoothly.  FIRE NOZZIES - One in driver's area, Over 150 mph. 2 more nozzles aimed at header/oll pan FIRE NOZZIES - One in driver's area, Over 150 mph. 2 more nozzles aimed at header/oll pan FIRE BOTILES - must be securely mounted - hose clamps not acceptable FIRE BOTILES - must be securely mounted - hose clamps not acceptable FIRE BOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted - hose clamps not acceptable FIRE DOTILES - must be securely mounted by check mounting/demonstrate operation.  MAIN BATTERY DISCONNECT SWITCH - Must be securely mounting/demonstrate operation.  WHEELS - Over 200 mph must use race mins obe tender/occepted packing on the must be downed on the securely mounted, pressure relet valve vent to outside with and mounted pressented by safety wire, pins or other SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be patterne	7 H 10	CANOPY - Check latch operation inside and out, exterior latch clearly marked "Open"	+
BRAKE CONTROL - Located inside cageleasy to operate with restraints on I FIREPLELLICATIONTPAIRACHUTE CONTROLS - Driver must demonstrate access/operation I cach control while wearing helinet, suit and gives and while properly restrained.  THES - Any tire within the driver compartment must have at fender to protect the driver THROTILE OPERATION - self closing, quickly and smoothly.  FIRE SUPPRESSION System:  AININIMUM AGENT REQUIREMENTS - Must meet class/speed minimums FIRE SYSTEM - Under 150 mph nozzle located in driver's area, over 150 mph - driver + engine FIRE BOOTILES - must be securely mounted - hose damps not acceptable FIRE BOOTILES - must be securely mounted - hose damps not acceptable BI-ANNUAL INSPECTON STICKER(S) - valid and readable without removing bottles FIRE DOORS - required to access engine compartment, clearly marked HEM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required to access engine compartment, clearly marked HEM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required to access engine compartment, clearly marked CHAIN GUARD - Positioned to prevent damage to oil, coolant, fuel or brake lines PARACHUTE - 1 required to each sprung wheel CHAIN GUARD - Positioned to prevent damage to oil, coolant, fuel or brake lines SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Cover 200 minimum thickness, all holes sealed.  Inkage passing through firewall goes through upper half only EXHAUST PIECS() - outlet(s) must be directed away from driver, wheels/ries and course DRAINS - Must have edoquated drain holes in the enginefurel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vant to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR RIFEQUIREMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be ostered by a safety wire, pins or other SIDECAR WHE	3.L	STEERING CONTROL - Operates freely, rigidly mounted, must have steering stops	
I PREFILE LUGNITION/PARACHUTE CONTROLS- Driver must demonstrate access/operation to each control while wearing helmet, suit and gloves and while properly restrained.  THRES - Any tire within the divers compartment must have a fender to protect the driver THRES - Any tire within the divers compartment must have a fender to protect the driver.  THRES - Any tire within the divers compartment must have a fender to protect the driver.  FIRE BUDTIES - OPERATION self dosing, quickly and smoothly.  MINIMUM AGENT REQUIREMENTS - Must meet class/speed minimums FIRE BOTILES - must be securely mounted - hose damps not acceptable mined at header/oll pan FIRE BOTILES - must be securely mounted - hose damps not acceptable without removing bottles.  FIRE BOTILES - must be securely mounted - hose damps not acceptable without removing bottles.  FIRE BOTILES - must be securely mounted - hose damps not acceptable without removing bottles.  Chassis:  Chassis:  Chassis:  Chassis:  Chassis:  CHAIN GUARD - Positioned to access engine compartment, clearly marked by SHOCK ABSORBERS - required for each sprung wheel CHAIN GUARD - Positioned to prevent damage to oil, coolant, fuel or brake lines  PARACHUTE - 1 required, 2 required over 250 mph, check mounting/demonstrate operation.  MAIN BATTERY DISCONNECT SWITCH - Must be visible and clearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design  WHEELS - Over 200 mph must user race rines or be reinforced per 26  FIREWALL - Metal/.060 minimum thickness, all holes sealed,  Ilinkage passing through firewall goes through upper half only  Inkage passing through firewall goes through miner wheels/these and course  DRANNS - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL side cars wheel must be sufficiently loaded to assure stability (10%)  SIDECAR AITACHMENT - attaching fasteners secured by safety wire, pins or other  SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Must demonstrate the pl	3.W	BRAKE CONTROL - Located inside cage/easy to operate with restraints on	
TIRES - Any tire within the driver compartment must have a lender to protect the driver THROTTLE OPERATION self closing, quickly and smoothly.  FIRE SUppression System:  MINIMUM AGENT REQUIREMENTS - Must meet class/speed minimums FIRE SYSTEM - Under 150 mph nozzle located in driver's area, over 150 mph - driver + engine FIRE BOTTLES - One in driver's area, Over 150 mph, 2 more nozzles aimed at header/oll pan FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be secured y mounted - hose damps not acceptable FIRE BOTTLES - must be secured y mounted - hose damps not acceptable FIRE DOORS - required to access engine compartment, clearly marked HEM JONITS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required to access engine compartment, clearly marked HEM JONITS - safety washers required one 256 mph, check mounting/demonstrate operation.  MAIN BATTERY DISCONNECT SWITCH - Must be visible and dearly marked outside SKIDS - Must have adequate drain holes in the engine/fuel compartment  NITROUS BOTTLE - Must be scurely mounted, pressure relief valve vent to outside whard line TOWING - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENTS  SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger	3.W/N/	FIRE/FUEL/LIGNITION/PARACHUTE CONTROLS - Driver must demonstrate access/operation	-
FIRE SUppression System:  MINIMUM AGENT REQUIREMENTS - Must meet class/speed minimums FIRE SYSTEM - Under 150 mph nozzle located in driver's area, over 150 mph - driver + engine FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps may acceptable FIRE BOTTLES - must be securely mounted - hose damps must acceptable FIRE BOTTLES - must be securely mounted - hose damps must acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps maked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOOCK ABSORBERES - required to access engine compartment, clearly marked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOOCK ABSORBERES - required to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines FARACHUTE - I required. 2 required over 250 mph, check mounting/demostate operation.  MAIN BATTERY DISCONNECT SWITCH - Must be visible and dearly marked outside SKIDS - Must have adequate drain holes in the engine/fuel compartment INTROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENTS  ISDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  Remarks	6 H Z	TIRES - Any tire within the driver compartment must have a fender to protect the driver	
FITE SUppression System:  MINIMUM AGENT REQUIREMENTS - Must meet class/speed minimums FIRE SYSTEM - Under 150 mph nozzle bocated in driver's area, over 150 mph - driver + engine FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable FIRE BOTTLES - must be securely mounted - hose damps not acceptable BI-ANNIUAL INSPECTON STICKER(S) - valid and readable without removing bottles Chassis:  Chassis:  FIRE DOORS - required to access engine compartment, clearly marked HEIM JONITS - safety washers required on all heim joints (NO ALUMINUM) SHOOCK ABSORBERS - required to prevent damage to oil, coolant, fuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines PARACHUTE - I required, 2 required over 250 mph, check mounting/demonstrate operation.  MAIN BATTERY DISCONNECT SWITCH - Must be visible and dearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIRWALL - Matbl. 060 minimum thickness, all holes seeds FIRWALL - Must have adequate drain holes in the engine/fuel compartment  NITROUS BOTTLE - Must be scurely mounted, pressure relief valve vent to outside whard line TOWING - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENTS  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  Remarks	3.1	THROTTLE OPERATION - self dosing, quickly and smoothly.	
MINIMUM AGENT REQUIREMENTS - Must meet class/speed minimums FIRE SYSTEM - Under 150 mph nozzle located in driver's area, over 150 mph - driver + engine FIRE BOTTLES - One in driver's area, Over 150 mph, 2 more nozzles alimed at header/oil pan FIRE BOTTLES - usut be securely mounted - hose damps and acceptable FIRE BOTTLES - must be securely mounted - hose damps and acceptable FIRE BOTTLES - must be securely mounted - hose damps mithout removing bottles  Chassis:  Chassis:  Chassis:  FIRE DOORS - required to access engine compartment, clearly marked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS required to acach sprung wheel CHAIN GUMPD - Positioned to prevent damage to oil, coolant, fuel or brake lines FARACHUTE - I required, 2 required over 250 mph, check mounting/demonstrate operation.  MAIN BATTERY DISCONNECT SWITCH - Must be visible and clearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Mattl 060 minimum thickness, all holes sends Innkage passing through firewall goes through upper half only EXHAUST PIPE(S) - outlet(s) must be directed away from driver, wheels/fires and course DRAINS - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENTS  ADDITIONAL SIDECAR REQUIREMENTS  I ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMARNS -		181	2ND 3RD
FIRE SYSTEM - Under 150 mph nozzle located in driver's area, over 150 mph - driver + engine FIRE MOZZLES - One in driver's area, Over 150 mph, 2 more nozzles aimed at header/oil pan FIRE BOTTLES - must be securely mounted - hose damps not acceptable BLANNUAL INSPECTON STICKER(S) - valid and readable without removing bottles Chassis:  Chassis: FIRE DOORS - required to access engine compartment, clearly marked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required to acch spuring wheel CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines CHAIN GUARD - Positioned to prevent damage to oil, coolant, tuel or brake lines SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Male Look on inimum thickness, all holes send in holes in the engine/fuel compartment INITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside wihard line TOWING - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENTS  ADDITIONAL SIDECAR REQUIREMENTS  SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger	3.0		_
FIRE NOZZLES - One in driver's area, Over 150 mph, 2 more nozzles aimed at header/oil pan FIRE NOZZLES - One in driver's area, Over 150 mph, 2 more adable without removing bottles  Chassis:  Chassis:  Chassis:  FIRE DOORS - required to access engine compartment, clearly marked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required to reach spring wheel CHAIN GUARD - Positioned to prevent damage to oil, coolent, tuel or brake lines PARACHUTE - 1 required, 2 required over 250 mph, check mounting/demostrate operation. MAIN BATTERY DISCONNECT SWITCH - Must be visible and clearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines seader FIREWALL - Metal. Oso minimum thickness, at lines and course DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENT - attaching fasteners secured by safety wire, pins or other SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger	7.H.2	FIRE SYSTEM - Under 150 mph nozzle located in driver's area, over 150 mph - driver + engine	
FIRE BOTILES - must be securely mounted - hose damps not acceptable  BI-ANNUAL INSPECTON STICKER(S) - valid and readable without removing bottles  Chassis:  FIRE DOORS - required to access engine compartment, clearly marked  HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM)  SHOCK ABSORBERS - required for each sprung wheel  CHAMIN GUARD - Desilioned to prevent damage to oil, coolant, fuel or brake lines  PARACHUTE - 1 required, 2 required for each sprung wheel  CHAMIN GUARD - Desilioned to prevent damage to oil, coolant, fuel or brake lines  PARACHUTE - 1 required, 2 required for each sprung wheel  SKIDS - Must have positive lock in up & down positions, surface friendly design  WHEELS - Over 200 mph must use race rims or be reinforced per 2.G  FIREWALL - MetalL'000 minimum thickness, all holes seader  FIREWALL - Must have adequate drain holes in the engine/fuel compartment  ADDITIONAL SIDECAR REQUIREMENTS  ICOADING - side cars wheel must be sufficiently loaded to assure stability (10%)  SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other  SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered  PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMINERS - Must have adequated the platform accommodates a kneeling passenger	3.0	FIRE NOZZLES - One in driver's area, Over 150 mph, 2 more nozzles aimed at header/oil pan	+
Chassis:  FIRE DOORS - required to access engine compartment, clearly marked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required for each sprung wheel CHAMINGUARD - Destinoned to prevent damage to oil, coolant, fuel or brake lines CHAMINGUARD - Destinoned to prevent damage to oil, coolant, fuel or brake lines PARACHUTE - 1 required, 2 required over 250 mph, check mounting/demonstrate operation. MAIN BATTERY DISCONINECT SWITCH - Must be visible and clearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Metal/.060 minimum thickness, all holes seaded Inkage passing through friewall goes through upper half only EXHAUST PIECS) - outefully must be directed away from driver, wheels/tires and course DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  IST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMARKS.	0.0	FIRE BOTTLES - must be securely mounted - hose clamps not acceptable	+
FIRE DOORS - required to access engine compartment, clearly marked HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCK ABSORBERS - required for each sprung wheel CHAMIN GUARD - Destinoned to prevent damage to oil, coolant, fuel or brake lines PARACHUTE - 1 required, 2 required over 250 mph, check mounting/demonstrate operation. MAIN BATTERY DISCONING over 200 mph must use race rims or be reinforced per 2.G FREWALL - Metal/360 minimum inforcers, all holes seaded. FREWALL - Metal/360 minimum indepension to the secured pressure relief valve vent to outside whard line DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONALL SIDECAR REQUIREMENTS  1ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMEALS.	<u>n</u>	151	OND 3RD
HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM) SHOCKA ABSORBERS - required for each sprung wheel CHANCK ABSORBERS - required to redo were 30 mph, check mounting demonstrate operation. PARACHUTE - 1 required, 2 required, 2 required were 30 mph, check mounting demonstrate operation. MAIN BATTERY DISCONNECT SWITCH - Must be visible and clearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - MetalLoon minimum thickness, all holes seeder FIREWALL - Must have adequate drain holes in the engine/fuel compartment INITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have adequate drain holes in the engine/fuel compartment ADDITIONAL SIDECAR REQUIREMENTS  ICOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMARRS.	7.H.		
SHOCK ABSORBERS - required for each sprung wheel CHANG GUARD Positioned to prevent damage to oil, coolant, fuel or brake lines PARACHUTE - 1 required, 2 required over 250 mpb, check mounting/demonstrate operation. MAIN BATTERY DISCONIECT SWITCH - Must be visible and clearly marked outside SKIDS - Must have positive lock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Metal/050 minimum thickness, all holes sealed, Inkage passing through friewall goes through upper half only EXHAUST PIECS) - outel for minimum thickness, all holes sealed, Inkage passing through friewall goes through upper half only EXHAUST PIECS) - outel for minimum thickness, all holes sealed, Inkage passing through friewall goes through upper half only EXHAUST PIECS. Outel (S) must be directed away from driver, wheels/fires and course DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward ride) of the sidecar wheel must be covered PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMINES.	7.H.14	HEIM JOINTS - safety washers required on all heim joints (NO ALUMINUM)	
CHAIN GUARD - Positioned to prevent damage to oil, coolant, fuel or brake lines PARACHUTE - I required, 2 required over 250 mph, check mounting/demonstrate operation. MAIN BATTERY DISCONNECT SWITCH- Must be visible and clearly marked outside SKIDS- Must have positive bock in up & down positions, surface friendly design WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Metal/.060 minimum thickness, all holes sealed, linkage passing through friewall goes through upper half only EXHAUST PIPE(S) - outet(s) must be directed away from driver, wheels/tires and course DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMARKS.	7 H 19	SHOCK ABSORBERS - required for each sprung wheel	+
PARACHUTE - I required L. Tequired one 250 mph, check mounting/demonstrate operation.  MAIN BATTERY DISCONNECT SWITCH- Must be visible and clearly marked outside  SKIDS- Must have positive book in up & down positions, surface friendly design  WHEELS - Over 200 mph must use race rims or be reinforced per 2.G  FIREWALL - Metal/.060 minimum thickness, all holes sealed,  linkage passing through firewall goes through upper half only  EXHAUST PIPE(S) - outlet(s) must be directed away from driver, wheels/lires and course  DRAINS - Must have adequate drain holes in the engine/fuel compartment  NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line  TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%)  SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other  SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered  PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMINES.	7.H.22	CHAIN GUARD - Positioned to prevent damage to oil, coolant, fuel or brake lines	+
SKIDS- Must have positive bock in up an interpretation of the properties of the positive bock in up and the positive bock in the positive bock in up and the positive bock in the positive bock in up and the positive bock in the positive proper half only in the positive bock in the b	7 H 13	PARACHUTE - 1 required, 2 required over 250 mph, check mounting/demonstrate operation.  MAIN RATTERY DISCONNIECT SWITCH - Minst he visible and clearly marked cutside	+
WHEELS - Over 200 mph must use race rims or be reinforced per 2.G FIREWALL - Metal/.060 minimum thickness, all holes sealed, linkage passing through frewall goes through upper half only EXHAUST PIPE(S) - outlet(s) must be directed away from driver, wheels/tires and course DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 92 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMTARKS	7 H 19	SKIDS - Must have positive lock in up & down positions, surface friendly design	+
FIREWALL - Metal/.060 minimum thickness, all holes sealed,  linkage passing through frewall goes through upper half only  EXHAUST PIPE(S) - outlet(s) must be directed away from divine, wheels/tires and course DRAINS - Must have adequate drain holes in the engine/fuel compartment NITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 22 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMTARS.	7 H 11	WHEELS - Over 200 mph must use race rims or be reinforced per 2.G	Н
Inkage passing through friewall goes through upper half only EXHAUST PIPE(S) - outlet(s) must be directed away from driver, wheels/fires and course DRAINS - Must have adequate directed away from driver, wheels/fires and course INITROUS BOTTLE - Must be securely mounted, pressur relief valve vent to outside whard line IOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMARKS	7.H.1	FIREWALL - Metal/.060 minimum thickness, all holes sealed,	-
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Drawns - wust nave acequate usin motes in region relief valve vent to outside whard line INITROUS BOTTLE - Must be securely mounted, pressure relief valve vent to outside whard line TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  1ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%) SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  Remarks	7 L	Se	
TOWING - Must have obvious tow strap attachment  ADDITIONAL SIDECAR REQUIREMENTS  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%)  SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other SIDECAR WHEEL - the inside (toward rider) of the sidecar wheel must be covered PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  Remarks	7 B 21	NTROUS BOTTLE - Must be securely mounted pressure relief valve yent to outside whard line	+
ADDITIONAL SIDECAR REQUIREMENTS  1ST  LOADING - side cars wheel must be sufficiently loaded to assure stability (10%)  SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other  SIDECAR WHEEL - the inside (toward riden) of the sidecar wheel must be covered  PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped  PLATFORM - Must demonstrate the platform accommodates a kneeling passenger  REMARKS	7.H.21	TOWING - Must have obvious tow strap attachment	
1ST		ADDITIONAL SIDECAR REQUIREMENTS	
<del></del>			2ND 3RD
₩	7.1.1	LOADING - side cars wheel must be sufficiently loaded to assure stability (10%)	H
<del></del>	7.1.6	SIDECAR ATTACHMENT - attaching fasteners secured by safety wire, pins or other since the standard than a side or when the same of the side	+
— ₩	7.1.11	PLATFORM - Minimum dimensions each side 12 in wide x 32 in long, rectangular shaped	+
Remarks	7.1.11	PLATFORM - Must demonstrate the platform accommodates a kneeling passenger	$\vdash$
		amarks	

EXHAUST PIPE(S) - outlet(s) directed away from rider, rear wheel and the course

LIGHTS/MIRRORS - Removed or all glass or plastic lens are taped

BATTERY - securely mounted, metal hold downs only.

WINDSHIELDS/WINDSCREENS - must be shatter resistant material.

7.B.20 7.B.12

7.B.5

ENTRY NO.

## **ENTRY/ Inspection Form - Cars**



Southern California Timing Association
Bonneville Nationals, Inc.

Code	Code	
Engine	Body	
Computer Cod	es:	
Class	Class	
Engine	Body	
Vehicle Classifi	cation:	
Class Record: _		
Log Book No.: _		
Entry No.:		
Entry No :		

**CAUTION:** The computer codes on this form determine the class in which your vehicle is entered. There will be **NO** corrections allowed after the vehicle has left the start line.

### (Please Print)

Date:	_SCTA Club:		_ New Car:	New Driver(s):
Entry Name: L				Gas:Fuel:
Vehicle Make / Mode	I / Year:		Blown:_	Unblown:
Engine Make / Year:		No. of Cylinders	: Disp	lacement:
Sponsor(s):				
Special Features:			Cel	l Ph:
Owner(s) Names(s)*:			Home	e Ph:
Address:		City:	State:	Zip:
described vehicle do here	bby warrant that all the above fact tion of this event, I understand that e no points for the event."	class identification etc. to accrue points are true and correct. If for any reasont I will be barred without consideration for	n I am found in e	rror on the above facts, or
		Release ead carefully before signing		<i>II</i>
assigns, that I shall ac my vehicle operated b Bonneville Nationals, waive any and all legal Inc., Bonneville Natior races and/or timing ev	cept full and entire responsibility for by me in any race, timing event or onc. and/or its members; and I hereby liability and/or cause of action that I is lials, Inc. or any of its members or all ent at the dry lakes or any other place be event and will comply with them.	and privileges extended to me, hereby ag any and all consequences, injuries or of ther contest or event conducted by the S by, in behalf of myself, my successors an may now have or hereafter acquire agains myone employed or acting as timers, judg te. By my signature I swear and affirm I do understand that land speed racing	herwise that may a Southern California d assigns, release t the Southern Cal ges or any other ca that I have read a	arise from the operation of a Timing Association, Inc., b, covenant not to sue and ifornia Timing Association, apacity in conducting such and understand the rules
Entrant's Signature: _	Date:	Print name:	C	ompetitor Log Book
Driver Signature:	Date:	Print name:	C	ompetitor Log Book
Alt. Driver Signature:	Date:	Print name:	C	ompetitor Log Book
Alt. Driver Signature:	Date:	Print name:	C	ompetitor Log Book ———
Alt, Driver Signature:	Date:	Print name:	C	ompetitor Log Book

Yes: \_\_\_\_

\_\_\_\_\_ No: \_\_\_

200 mph line or long course qualified in this class?

Primary / 1st Inspect	or's Signature:	Print Name:	Inspection Date:
Over 200 mph / New 2nd Inspector's Sign		Print Name:	Inspection Date:
Over 250 mph / 3rd I	nspector's Signature:	Print Name:	Inspection Date:
Sec./Ref. No.	Requirements		N/A 1 2 3
3.Q	Vehicle and driver present in Race Ready Condition — i.e. rac  ☐ 10.B.C. Portable Fire Extinguisher / ☐ CB Radio in Push, C  ☐ Helmet, full face with shield — SA2010 or later / ☐ Arm Restraction  ☐ Drivers Suit / ☐ Head sock / ☐ Gloves / ☐ Shoes — to meet	rew Vehicles	
Drivers Compartr	<b>nent:</b> . Vehicle chassis number sticker on chassis – Must match log	hook	
3.B, 3.B.1	Roll Cage / Cross members – meets class requirements Roll Cage and Headrest Padding – in helmet contact area (\$ . Seat securely mounted – bottom and back – no sprung or pla: Seat Belt/Shoulder Harness/Crotch Strap, (\$FI spec 16.1, 16.5) . Fire / Fuel / Ignition / Parachute Release inside cage – eas . Steering Wheel Clearance – operates freely, rigidly mounted . Reverse Gear lockout, auto trans mandatory, manual recomm. Throttle / Toe Strap / Positive Stop	FI approved)	
3.D.3, 4.P, 3.G, 3.E . 3.1.2, 3.Y 3.E	Window Net / Floorboard / secondary flooring / inner panelir All fuels / Oil Vent / Nitrous Oxide / Components / <i>must</i> be comp. Fresh air vent — enclosed vehicles - fire protection around duc Disabled door and steering wheel locks	ng — securely mounted as required letely isolated from the driver's compartment ting	
3.Q	0-200 mph – 10 lbs. minimum - *driver and engine	otable	
3.J	Fuel Shut-off - Electric Fuel Pump Safety Switch - check oper Throttle Operations - two return springs / over center posit Metal Clamps on fuel lines / water lines	ive stop	
3.O	Flywheel Shield – 1/4" steel or approved equivalent Automatic / Planetary Transmission Shield – (SFI 4.1 recomm Fuel lines, tanks & bottles in flywheel plane require extra shi Drive shaft Sling $360^\circ$ – front 25% of driveshaft (1/4"x1" ste	ıended)	
2.F	Tires — □ O.E.M. up to Approved Speed, □ O.E.M. VR & ZR rate Approved racing tires only	/heels, 1/4" retainers / $\square$ Racing Wheels	
3.T	Steering Gear, Shaft securely mounted / Steering Stops Safety washers on all heim joints Shock absorber for each sprung (non-rigid) wheel Traction bar slings – minimum 1/4" dia Fuel / Water tanks securely mounted / properly vented Ballast / Battery securely mounted Safety Hubs / no "C" clips / Front / Rear		
2.l	. □ 1 Parachute, over 160 (lakes), 175 (B'ville) / □ 2 Chutes, over mounting/operation	nent Point / Clearly Marked / Readily Available	
2.L, 3.l.2	Body meets class requirements / Neat appearance Vehicle Number / Class / Nitrous Oxide Inside / Markings on bod Roof Rails over 200 mph as required by class	y and legible	-
3.K	"Open" clearly marked for canopy / Hood Release Main Battery Disconnect Switch – visible and clearly marked	Front Rear Operable / Clearly Marked	
Romarke:			

### **Appendix C - Speed Calculations**

### **RPM/Speed Calculations**

For Cars/Trucks

$$RPM = \frac{SPEED \times 336 \times GEAR}{DIA}$$

RPM = engine speed SPEED = vehicle speed in MPH

GEAR = final drive gear ratio (2.50, 3.30, etc.)

DIA = drive tire diameter in inches

Example: What engine speed is required to go 140 mph with a 3.00:1 final drive ratio and 27" tall rear tires?

$$RPM = \frac{SPEED \times 336 \times GEAR}{DIA}$$

$$RPM = \frac{140 \times 336 \times 3.00}{27}$$

$$RPM = \frac{141120}{27}$$

$$RPM = 5227$$

\*\*NOTE\*\* The above example assumes a 1:1 final transmission gear. If using overdrive transmission, multiply final drive ratio by transmission overdrive ratio to get effective final gear.

Example: What engine speed is required to go 140 mph with a .75:1 overdrive, 3.50:1 final drive ratio and 27" tall rear tires?

$$RPM = \frac{SPEED \times 336 \times GEAR}{DIA}$$

$$RPM = \frac{123480}{27}$$

$$RPM = 4573$$

### **RPM/Speed Calculations**

For Motorcycles

$$RPM = \frac{SPEED \times 336 \times PRI \times GEAR \times \frac{BIG}{SMALL}}{DIA}$$

RPM = engine speed

SPEED = vehicle speed in MPH

PRI = primary drive ratio (between crankshaft and clutch)

GEAR = transmission gear ratio (1.33, 1.00, etc.)

BIG = tooth count of big (rear) sprocket

SMALL = tooth count of small (front) sprocket

DIA = drive tire diameter in inches

Example: What engine speed is required to go 140 mph on a 2006 Kawasaki ZX-14 with a 25" tall rear tire in 5<sup>th</sup> gear?

Primary Drive Ratio = 1.54:1 5<sup>th</sup> Gear Ratio = 1.15:1 Big Sprocket = 41 teeth Small Sprocket = 17 teeth

$$RPM = \frac{SPEED \times 336 \times PRI \times GEAR \times \frac{BIG}{SMALL}}{DIA}$$

$$RPM = \frac{140 \times 336 \times 1.54 \times 1.15 \times \frac{41}{17}}{25}$$

$$RPM = \frac{200919}{25}$$

$$RPM = 8037$$