

## ***Big Blue Mile Shootout 2017***

### ***Is Racing Experience Required?***

Drivers and navigators must be 18 on the first day of the race to participate in the event. Drivers are required to have racing experience in both the ½ mile and for the 1 mile.

### ***King of the Hill***

The KOTH award is given to the driver with the fastest single pass in the one mile and half mile.

### ***Matching Speed Awards***

Drivers will make two passes for record (up to four if time permits). Winners are selected from the cars which post the closest matching speeds from the two runs. First place award will be given in each class to drivers with the closest matching speeds. Consider the following: Driver "A"'s two runs are separated by .4 mph and Driver "B" has .7 mph difference in his two runs. Driver "A" wins. In case of a tie the fastest time will determine the winner.

## **Technical Safety Inspection "Tech" And Drivers Meetings**

All vehicles and drivers must complete the technical safety inspection to ensure compliance with the Rules, Requirements, and Specifications established by the BBMS, llc for the class entered. There are no exceptions to this rule.

Each driver and rider is responsible for the safety and roadworthiness of the registered vehicle and all vehicle and personal safety equipment.

Cars and individual safety equipment must be complete and ready for inspection upon arriving at the designated inspection area. All drivers are required to attend all scheduled drivers meetings as published on the event schedule. Failure to attend may result in disqualification. Every participant is expected to conduct themselves according to the highest standards of behavior and sportsmanship. Entrants shall also be responsible for the conduct of those accompanying them to the event such as crew, family, and friends.

All vehicles must be maintained in a safe condition throughout the duration of the event. Passing the technical inspection does NOT relieve the entrant of any liability. The registered participant is responsible for his/her vehicle at all times.

- 1) Each entrant and vehicle will **ONLY** be allowed to complete **AFTER** passing **BOTH** a driver and a vehicle tech inspection.
- 2) Vehicle Tech inspection will be performed prior to the actual competition event. Refer to the event schedule for inspection times.
  - a) The “vehicle” must be presented to tech inspectors in “ready to compete” condition including, but not limited to....
    - i) All vehicle safety equipment
    - ii) Vehicle numbers and event sponsor decals
    - iii) Any camera or recording equipment mounts that will be used during competition.
    - iv) The primary driver must also be present.
- 3) Driver tech inspection will also be performed prior to the actual competition event. Refer to the event schedule for inspection times.
  - a) The “driver” must present all personal safety gear to be checked.
  - b) Drivers will be reviewed and licenses presented based upon equipment and experience.
- 4) Any vehicle or driver that fails tech inspection must correct any and all deficiencies and be re-inspected in the allowed tech inspection times in order to compete.
- 5) No modifications (additions, deletions, or changes) will be allowed to the vehicle or the safety gear of the driver after passing tech inspection. Doing so may result in disqualification. Any modifications and/or changes must first be approved by either the Event Director or the Chief Tech inspector.

## **Rules Of The Road**

The following rules are critical to your safety. These rules must be followed and are not negotiable. The BBMS, Ilc relies upon entrants to follow these rules in order to offer a safe event and ensure the future of the BBMS, Ilc and its success.

1. Obey all race officials and emergency personnel. They are there to protect you and the event.

2. Drive safely. You are fully responsible for your actions on the course. Keep looking far ahead at all times.
3. Never reverse direction on the course. Unless directed to do so by race officials, a driver is never permitted to reverse course direction.

## Competition Events

The Big Blue Mile Shootout will allow registrants to compete in either the ½ Mile Shootout or the 1 Mile Shootout. The rules, regulations, and classifications are each event are listed as follows.

### ½ Mile Matching Times

The following rules, regulations, and specifications are for vehicles and drivers competing in the ½ Mile Shootout event only AND are applicable for vehicles completing the ½ Mile in under 165 mph. **ALL ½ Mile Shootout participants that exceed 165 MPH will be required to meet all of the Rules, Regulations, Classifications, and Specifications put forth in the 1 Mile Shootout.**

1. A 2.5 lb. minimum, automotive BC fire extinguisher with a secure quick-release mounting bracket is required. The extinguisher must be within easy reach of the driver.
2. **For cars NOT exceeding 165 MPH:** Over the shoulder style OEM lap belts and harness are the MINIMUM standard. Cars originally equipped with none or only lap belts must obtain approval from the BBMS, llc Safety Inspection Director.
  - A. Belts must be in “as new” condition.
  - B. The use of a five-point racing harness system is highly recommended.
3. **For cars exceeding 165 MPH:** A five or six-point safety harness system that includes three inch (3”) shoulder and lap belts.
  - A. All belts must be in “as new” condition.
  - B. Sternum belts are recommended for seats which do not support the shoulder straps. However, large metal buckles on the sternum strap are not recommended.

- C. The use of a “cam-lock” seat belt locking system is recommended.
4. DOT approved “U” rated tires (or better) will be considered the minimum requirement. DOT approved “H”, “V”, or “Z” rated tires are recommended.
  5. A SNELL Foundation SA2005 (or later) helmet in good condition is the minimum standard; shatterproof eye protection is recommended (shatterproof eyeglasses will be considered the minimum standard).
  6. Non-synthetic clothing (cotton, wool, leather, etc.) covering torso, arms, and legs, plus gloves and leather-topped shoes (both without holes) is the minimum standard. Golf gloves and athletic shoes with holes are not acceptable.
  7. Cars that run over 150 mph MUST wear an SFI approved suit, gloves, and shoes with a 32 A/1 rating in addition to SA2005 helmet. All cars that run below 150 mph will abide by original rules.
  8. No open exhaust allowed during the event. Cars must have a collector of at least two feet past the exhaust manifold collector.
  9. Name and blood type is required on the driver’s helmet.

## **1 Mile Matching Times**

1. Drivers who have not completed the ½ mile matching times, or other mile shootout event to the satisfaction of the BBMS, Ilc Race Director are not eligible to enter the 1 mile shootout. No exceptions to this policy will be considered.
2. A 2.5 lb. minimum, automotive BC fire extinguisher with a secure quick-release mounting bracket is required. The extinguisher must be within easy reach of the driver.
3. **For cars NOT exceeding 165 MPH:** Over the shoulder style OEM lap belts and harness are the MINIMUM standard. Cars originally equipped with none or only lap belts must obtain approval from the BBMS, Ilc Safety Inspection Director.
  - A. Belts must be in “as new” condition.
  - B. The use of a five-point racing harness system is highly recommended.

4. **For cars exceeding 165 MPH:** A five or six-point safety harness system that includes three inch (3") shoulder and lap belts.
  - A. All belts must be in "as new" condition.
  - B. Sternum belts are recommended for seats which do not support the shoulder straps. However, large metal buckles on the sternum strap are not recommended.
  - C. The use of a "cam-lock" seat belt locking system is recommended.
5. DOT approved "Z" rated tires (or better) will be considered the minimum requirements.
6. A SNELL Foundation 2005 (or later) helmet is the minimum standard.
  - A. A BBMS, llc approved neck restraint is recommended. Approved manufacturers are: Team Valhalla Racing, Hybrid Safety Solutions, Simpson, Defender, LFT Tech, Leatt Brace, Hans, and Safety Solutions.
  - B. Shatterproof eye protection or full-face helmet is required.
  - C. A padded helmet support is recommended.
  - D. Arm restraints are recommended.
7. No open exhaust allowed during the event. Cars must have an extension of at least two feet past the exhaust manifold collector.
8. An SFI approved suit, gloves, and shoes with a 32 A/1 rating for driver is required.
9. Name and blood type is required on the driver's and navigator's helmets.
10. Aftermarket fuel cells must meet safety specifications.
11. Drive shaft loops are recommended.
12. A blow-proof bell housing is recommended.

## **Pick-up Specifications**

1. Standard cabs only:
  - A. ½ mile Abide by the requirements set.

- B. 1 mile- Roll bars mounted must be mounted inside the cab and have all of the equipment required for 1 mile.
2. Roll bars mounted in the pickup box:
    - A. Will qualify for the full one-mile event only if all other requirements for the 1 mile are met.
    - B. The roll bar cannot be any more than 14 inches from the middle of the helmet to the roll bar mounted in the box. The roll bar must be mounted as close to the cab as you possible. If need be, contour the bar to match the back of the cab of the pickup.
  3. Inside roll bar requirements for standard cab pickups only:
    - A. Minimum of a 4 pt. bar, along with a diagonal cross brace and full-width shoulder harness bar. Bar size will need to meet bar size ratio to weight of pickup. Mounting will need to be as required in our roll bar specs.
  4. Club cab or extended cab pickups:
    - A. Abide by the requirements set in the ½ mile.
    - B. Roll bar will be mounted inside the cab above the driver just as in a car. Also, follow requirements for the 1 mile

## **Rules, Requirements, Regulations, and Specifications**

1. All vehicles must have current registration and insurance. They will have to be driven from the drivers meeting 7 miles to event site.
2. All items contained in the cars interior must be secured.
3. Drive shaft loops are recommended for all classes.
4. A shatterproof bell housing is recommended for those in the unlimited classes.
5. ACCEPTANCE:
  - A. Any and all persons making an official entry in BBMS, Ilc sanctioned events are assumed to know the Rules, Requirements,

Regulations, and Specifications. Participation in the event shall constitute acceptance of them by every participant.

- B. The decision of the BBMS, llc officials in their interpretation and enforcement is final.

6. ENTRY:

- A. An official BBMS, llc application for entry must be legibly completed, signed, with entry fee enclosed, and received by the BBMS, llc .
- B. The BBMS, llc reserves the right to reject any entry.

7. SPONSOR DECALS AND CAR NUMBERS:

- A. Sponsor Decals: Event sponsor decals will be provided, along with a diagram for affixing them to your vehicle at registration. Event sponsor decals must be affixed to an entrant's vehicle before receiving the required technical safety inspection. Sponsor decals must be displayed for the duration of the BBMS, llc.
- B. Car Numbers: Car numbers must be on car prior to registration. Indicate the requested desired car number, and two alternates, on the entry form. In cases of duplication the requested number will be awarded to the earliest dated entry. Car numbers MUST be displayed on both sides of the vehicle. Other decals, logos, and advertising are permitted, if displayed tastefully. The use/display of any numbers on the car other than those provided may cause confusion to timing/scoring spotters. The BBMS, llc cannot be responsible should any entrant not using the official number decals not be properly scored.

8. REGISTRATION:

- A. Registration is required for all participants. Entrants must complete event registration prior to safety inspection of their vehicles.

9. MEDIA SPONSORS, ASSOCIATE SPONSORS, AND EVENT OFFICIALS:

- A. Anyone participating in this event must be registered by BBMS, llc. This includes, but is not limited to: the media, sponsors, associate sponsors, and event officials.

- B. Credentials will be issued and will be used to control access to restricted areas as designated.
- C. The credentials must be visible at all times during the event.

10. WAIVERS:

- A. Any and all persons admitted to the pre-grid, pits, and/or other designated restricted areas of the BBMS, llc must obey all rules, requirements, regulations, and specifications set forth by the BBMS, llc.
- B. Each person admitted must complete and sign all releases of liability requested by the BBMS, llc.
- C. All participants empower the BBMS, llc to represent them in assigning rights for reproduction of sanctioned events by electronic, broadcast, and/or print media and automatically assign rights to utilize their name, facsimile, etc., in media-related materials and/or advertising and promotion of sanctioned events.

11. PARTICIPATION LIMIT:

- A. Entry of more than one car per driver is not permitted in any single event.

12. AGE REQUIREMENTS:

- A. Drivers and navigators must be at least 18 years of age at the start of the event.
- B. General License Requirements: All drivers must have a valid state, military, or international driver's license.

13. DRIVER'S MEETING:

- A. ALL driver entrants must attend the driver's meeting (unless otherwise waived by the appropriate BBMS, llc officials).

14. EVENT OFFICIALS:

- A. The BBMS, llc Race Director will be the event master for each event. It is their responsibility to supervise the safety of the event. A driver's access to the course is at the sole discretion of the race director. The race director may designate the following positions for each event: Chiefs of: Technical Inspection, Tires, Touring Pace



Car Driver, Timing, Communications, Worker, and any other appointments they deem appropriate.

15. TIMING:

- A. An electronic timing system will be used. If the electronic system fails, the manual backup will be considered official.
- B. Participants will be timed from a standing start.

16. DISQUALIFICATION:

- A. The race director has the right to disqualify any participant from the race, due to willful misconduct during the BBMS, llc event. The decision is final by the race director.
- B. Verified reports to the board of any willful, unsafe driving practices from a participant at any time during, before, and or after the BBMS, llc event may result in disqualification.

17. PENALTIES:

- A. If a disqualification occurs, the driver will not receive their radar speeds or average speed results. The driver will be advised of the reason for the disqualification.

18. PASSENGERS

- A. There will be no passengers permitted, except for designated exhibition runs

## **Roll Bar Specifications**

1. Roll Bar: A 4 pt. roll bar is mandatory for all vehicles that exceed 165 MPH, with a harness bar and a diagonal brace. Any vehicle exceeding 165 MPH without a roll bar will be disqualified from the event immediately.
2. Basic Design Considerations: The basic purpose of the roll bar/roll cage is to protect the driver in case the vehicle rolls over. This purpose should not be forgotten.
  - A. The top of the roll bar shall not be below the top of the driver's helmet in a closed car and a minimum of two (2) inches above the driver's helmet in an open car when the driver is in the normal

driving position. It shall not be more than six (6) inches behind the driver.

- B. Cars with factory built or factory reinforced roll structures may be allowed in the 1 mile matching times. They will be evaluated on a per car basis. The decision of the race director will be final.
  - C. The two vertical members forming the side of the hoop shall not be less than fifteen (15) inches apart, inside dimensions, at their attachment point to the uppermost chassis member.
  - D. An inspection hole of at least 3/16-inch diameter must be drilled in a non-critical area of the roll bar member to facilitate verification of wall thickness. This should be at least three inches from any weld or bend.
3. Material: The roll bar hoop and all braces must be of seamless, ERW (Electric Resistance Welded), DOM (Drawn Over Mandrel), or CREW (Cold Rolled Electric Welded) mild steel tubing.
- A. The size of the tubing to be used must be determined on the basis of the weight and speed potential of the car.
4. Fabrication: The main vertical hoop must be one continuous length of tubing with smooth continuous bends and no evidence of crimping or wall failure.
- A. All welding must be of the highest quality with full penetration. Arc welding should be used whenever possible. All attachment points must be welded 360 degrees around the tube.
  - B. Gussets should be welded at the junction of any tubes.
5. Bracing: It is recommended that braces be of the same size tubing as used for the roll bar itself.
- A. All roll bars must be braced in a fore or aft direction with the brace attached within six (6) inches of the top of the hoop, and at an angle of at least thirty (30) degrees from vertical.
  - B. It is required that a diagonal brace be used to triangulate the main hoop, and it is highly recommended that this brace be attached at the top on the driver's side and attached to the bottom on the "passenger" side.
  - C. A headrest is required if not part of the seat.

6. Mounting Plates: Roll bars and braces must be attached to the frame of the car whenever possible. Mounting plates must be used for this purpose. When the main hoop is attached to sheet metal, such as a floor attaching point for unibody cars, the mount plate must be at least 36 square inches (6" x 6" plate) on both sides of the sheet metal.
  - A. A minimum of double-nutted grade 5 bolts for self-locking or welded nuts shall be used to bolt to the car. No bolts are needed if the bar is welded to the car's frame.
  - B. In the case of cars with unitized or frameless construction, 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 back-up plate of equal size and thickness must be used on the opposite side of the panel with the plates through-bolted together.
7. Removable Roll Bars: Removable roll bars and their braces must be very carefully designed and constructed to be at least as strong as a permanent installation. If one tube fits inside another to facilitate removal, the removable portion must bottom on the permanent mounting, and the mounting hardware used to secure each joint must be grade five (5) or better. It is recommended that the telescope section be at least eight (8) inches in length.
8. Installations On Cars Of Space Frame Or Frameless Design: It is important that the 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. 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 a single tube of the frame. 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 attaches with suitable mounting plates. This type of roll bar then becomes a substitute for the frame.
9. Other Designs: Deviations from the above will be considered.
10. Roll Bar Padding: Roll bar padding should be used to protect the driver in all areas of possible contact.
11. Minimum Tubing Sizing: The size of the tubing to be used shall be determined on the basis of the weight and speed potential of the car.

Under 1500 lbs. ERW, CREW 1.50" O.D. X .120 wall  
DOM 1.50" O.D. X .090 wall

1500 to 2700 lbs. ERW, CREW 1.75" O.D. X .120 wall  
DOM 1.50" O.D. X .090 wall

2700 lbs. & over ERW, CREW 1.75" O.D. X .120 wall  
DOM 1.75" O.D. X .090 wall

## **Tire Regulations**

All individuals who are participating in the mile matching times must run a tire that is speed rated for the class entered.

1. Load Carrying Capacity: ALL TIRES MUST HAVE AN EQUAL OR GREATER LOAD CARRYING CAPACITY THAN THE ORIGINAL TIRE (i.e., the base tire for a 1999 Mustang is a P205/65R15 rated @ 1,400 lbs—any replacement tire must have a load rating of at least 1,400 lbs., regardless of the speed rating or what division/class the vehicle is competing).
2. Speed Rating: ALL TIRES MUST HAVE AN EQUAL OR GREATER SPEED RATING THAN ORIGINAL EQUIPMENT (OEM) REGARDLESS OF WHAT DIVISION/CLASS THE VEHICLE IS COMPETING IN (i.e., a 1992 BMW 535i comes equipped with p225/60VR15 tire from the factory; the car must have tires with an equal or higher speed rating to compete in any class).
3. REQUIREMENTS:
  - A. Tubes will not be allowed in tubeless tires in any class.
  - B. IN ANY SPEED CATEGORY, TIRES OR WHEELS MAY NOT RUB ON ANY PART OF THE SUSPENSION, FRAME, OR BODYWORK.
  - C. Tires must be in excellent condition and suitable for sustained use at the car's maximum speed.
  - D. It is highly recommended that tires used within 10 mph of their maximum speed rating should be shaved to 4 or 5/32".
  - E. Tires must be mounted on wheels of proper width as listed by the tire and wheel manufacturer.

# Fire Systems and Fuel Cells

1. FIRE SYSTEMS:
  - A. A fire system is recommended for all cars in the 1 mile.
2. FUEL CELL/TANK DESCRIPTION:
  - A. If a fuel cell is in use it must pass tech.
  - B. There must be a solid metal bulkhead completely separating the fuel tank, fuel cell, filler neck hoses, and/or vent lines from the driver compartment.
  - C. Good quality fuel cells contain a bladder constructed of Nylon or Dacron woven fabric impregnated and coated with a fuel resistant elastomer.
  - D. The cell shall be in a container made of at least 0.036-inch steel, 0.059-inch aluminum, or 0.125-inch Marlex fully surrounding the bladder.
  - E. Foam internal baffling is required.
  - F. The filler cap, line, vent hoses, etc., must be designed so that no fuel will escape if the car is partially or totally inverted.
3. INSTALLATION:
  - A. Fuel cells must be located within twelve (12) inches of the original tank. This measurement is taken from the perimeter edge of the original tank to the perimeter edge of the fuel cell.
  - B. Additional reinforcements may be added to aid in the installation of the cell, but they shall not attach to the roll cage.
  - C. Floor structure may be modified to aid in the installation of the cell.
  - D. Steel location strapping is strongly recommended to keep the fuel cell from dislocating in a crash.
4. RESTRICTIONS:
  - A. Installing a fuel cell that hangs significantly close to the ground or is mounted closest to the rear of the vehicle, even if the installation

meets with these rules, may be deemed unsafe and therefore excluded from the event.

- B. Rotary-molded cells will not be allowed. Most or all JAZ and RCI brand cells are examples of rotary-molded cells that will not be allowed. All cells have to be made out of metal.

## **Approved Fuels**

Gasoline, methanol, gasohol, diesel, natural gas, and propane are permitted. Nitro methane is prohibited.

## **Forced Induction**

Nitrous Oxide. Use of nitrous oxide is permitted in the matching times event. Nitrous bottles in driver compartment must be equipped with a relief valve and vented outside of driver's compartment. Bottles must be stamped with a DOT-1800 pound (124 bars) rating and permanently mounted (no hose clamps or tie wraps). Hoses from bottle(s) to solenoid must be high-pressure steel braided or FIA permitted hoses. External heating of bottle(s) prohibited. We also recommend an NOS sticker on the car to alert safety inspection team that you have a "bottle on board."