

SUPERMIATA

2017 Supermiata Regulations - updated Feb 2, 2017. Most recent changes in red

rev 2017.2.2 Copyright Supermiata LLC 2017

A. Overview

1. Mission statement

The mission statement of SuperMiata is simple: Safe, cheap, fun. To that end, SuperMiata will always work with racers to find the most cost effective solutions to maintain safety and parity. Our goal is not to build the ultimate Miata. It is to create the context for the most affordable, safe and fun production car racing on the west coast.

Speed Ventures will host each and every SuperMiata race event concurrent with their existing HPDE events. Any questions or concerns regarding event registration can be sent to Speed Ventures. www.speedventures.com

2. SuperMiata Competition License

A Speed Ventures Competition License will be required to be eligible to participate in any qualifying or race session. Speed Ventures will be the sole issuer of the Speed Ventures/SuperMiata competition license. If a driver does not already have a current license with a different race organization, the driver should contact Aaron Bitterman or Adam Gershon at Speed Ventures for licensing procedures. If the driver possesses a current competition license from a different organization, they must provide a race resume and submit to a brief driver interview with Speed Ventures.

B. SuperMiata prep guidelines

If you don't see it listed here, it's not legal. Feel free to contact Speed Ventures or SuperMiata for clarification

1. Safety

B.1.1. Vehicle

Minimum weight 2300 lbs. With driver in impound.

Minimum safety requirements will be no less than industry standard for wheel to wheel amateur club racing in North America. This includes, but is not limited to:

1. 6 point cage of 1.5" x .095" wall thickness DOM tubing
2. Current SFI and/or FIA rated 5 or 6 pt harnesses (4pts not allowed)
3. One piece with current SFI or FIA approved seat with no less than 4 fixed mounting points. Aluminum shell seats must have fixed back brace.
4. Fire bottle of at least 2.5lbs A/B/C type. Automatic system with release in reach of driver and external safety crew recommended.
5. (Recommended but not mandatory) SFI Center net mounted to cage structure on all ends.
6. SFI Window net mounted to cage structure on both ends

2. Driver

1. Current SFI rated one piece driving suit
2. SA2010 or newer full face helmet with functioning visor
3. SFI rated fire retardant socks

4. SFI rated fire retardant driving gloves
5. SFI rated fire retardant shoes
6. SFI rated head and neck restraint

3. Engine

The intent of the engine rules and SPM Power Cap are to allow 100% OEM, unmodified BP05/BP4W/BP6D long blocks to remain competitive in Supermiata races. The max WHP (power), max WTQ (Torque) and Power Area values are all easily achieved with the aforementioned OEM long blocks. Aftermarket and modified internal engine parts are allowed only to improve reliability and cross-compatibility with other racing classes. All non-OEM engines must be detuned to meet SPM power output restrictions and dyno graphs submitted in order to be eligible for championship points. Any competitor utilizing aftermarket or modified engine internals may be disqualified or excluded from racing if their car is found to be outside of SPM power restrictions.

1. Update/backdate, mix and match of any years 90-05 USD M Miata engine components allowed. Intake manifold may be ported and emissions equipment modified deleted. Non USD M "square top" intake manifold allowed.

All cars must comply with lbs/hp ratio and Power Area regardless of weight or power.

2. Maximum allowable power measured at the wheels on a Dynojet 248 or 288 with onboard weather station active, spec tire inflated to no less than 30psi, 4th gear: 140 horsepower, 130 torque SAE corrected, smoothing set to 5

3. Power area. Whp limited to a maximum "power area" as follows: Add whp at 5000,5500,6000,6500,7000rpm. Total value must not exceed 665

4. Maximum rev limiter setting: 7000rpm

5. Long block can be 100% OEM Miata from any country. Suggested modifications for increased reliability (not mandatory):

- forged rods of stock dimension, between 520g ~ 545g each

- stiffer valve springs for over rev protection

- ACL Race engine bearings or equivalent

6. ECU is free.

7. Intake piping, filter and location are free. OEM MAF/AFM may be modified or removed

8. Entire exhaust system is free but must exit behind rear axle centerline

9. Oil cooler may be added and is recommended

10. Engine mounts free but engine must remain in stock location

11. Cooling system free. Radiator must retain OEM location and approximate size.

12. Any single throttle body allowed provided it is no larger than 64mm. OEM throttle plate and shaft may be modified to improve strength.

13. Allowed fuel: up to 100 octane unleaded gas, E85. Leaded gas, methanol not allowed

14. Non OEM internal Engine coatings not allowed. Headers and exhaust may be coated with thermal insulation coating, wrap or paint.

15. Ignition system free

16. Wiring harness may be lightened and simplified

17. Emissions equipment, miscellaneous brackets and equipment in engine bay may be removed to lighten car provided min weight and power cap are observed

18. Launch control and traction control not allowed

4. Suspension/Drivetrain -

1. Update/backdate, mix and match of any years 90-05 USDM Miata suspension components, subframes, braces allowed provided the part(s) bolt directly on without modification.
2. Coilovers with a maximum of 1 damping adjustment allowed
3. Spring rates free
4. Spec tire is 225/45/15 Maxxis RC-1. Wheels are free but must be one piece cast aluminum. No forged or multi piece wheels.
3. Diff mounts free
4. Any one piece sway bars allowed
5. End links free provided they attach in OEM locations
6. Any polymer suspension bushings allowed. No metal bushings or bearings allowed. Eccentric offset control arm bushings for camber correction allowed
7. Brakes may be updated/backdated in any combination of 90-05 components. Pads free. Brake ducts free
8. Final drive ratio can be 3.9, 4.1, 4.3.
9. OEM optional Torsen or Tochigi-Fuji differential allowed. No aftermarket diffs allowed.
10. OEM 5 spd transmission only. 6 spd or non OEM trans not allowed
11. Rain tires: 205/50/15 or 225/45/15 Maxxis VR-1 tires with at least 3/32 minimum tread depth at start of race or 225/45/15 RC-1 at any tread depth allowed once Wet Race is declared. Race will be declared as "Wet Race" no later than 30 minutes prior to start. Protocol is entire track is wet, no dry line, 100% cloud cover and rain forecast to be declared a Wet Race.
12. Control arm bushings: Any bushing material may be used. Percentage of polymer to metal may be changed. Spherical bearings not allowed.

5. Body - Aero

1. Vertical front air dam allowed. Air dam must originate no higher than forward most point of OEM bumper skin. Air dam may extend to left and right ends of bumper skin but not beyond. No splitters, canards or other front downforce producing modifications allowed.
2. Under tray may extend from front axle centerline to air dam. Undertray must be flat, have no more than 2° angle and have no curvature.
3. Trunk mounted ducktail spoiler of no more than 13" in length may be mounted at any angle. Ducktail must be 2D only, no significant curvature, and have no fences or gurneys. Ducktail must not extend beyond rear quarter panels and must be mounted within 4" of trailing edge of lid.
4. Windshield may be substituted for 187 polycarbonate
5. Any hardtop material and window thickness allowed. Must retain OEM shape
6. Lightweight body panels allowed: hood, trunk, hard top, front fenders only. Must retain OEM dimensions.
7. Vents may be added to hood provided no portion of vent protrude beyond 10mm of OEM hood surface
8. Hoods and trunk lids may be pinned. Aero catches allowed.
9. Radiator ducting may be added/modified to improve cooling provided it creates no additional downforce.
10. Interior, doors, trunk may be gutted of all bolt on panels and components provided safety guidelines and min weight are observed.
11. Rear window may not be vented or removed
12. Hard top must not be mounted in such fashion as to allow air gaps at any mating surface while on track. Venting hard tops in this way may result in a DSQ from that race or qualifying session.
13. Cars are required to be in presentable "50/50" condition. While show quality paint is not desired, major blemishes, mismatched panels, dents and damaged graphics should not be readily apparent once

the car is in motion. Drivers will be given warnings and have the span until the next event to correct cosmetics. Failure to keep the car a satisfactory appearance may result in not being allowed to compete.

Competitors are encouraged to submit dyno reports. SuperMiata officials may dyno your car at any event and disqualify results obtained with a non-compliant car.

Ballast weight must be secured as follows: At least one 5/16" grade 8 nut/bolt with 2.0" diameter washer/backing plate of .090 thickness for each 15lb of weight.

C. GENERAL INFRACTIONS & DRIVER CONDUCT

1. General infractions are safety and/or sportsmanship violations including, but not limited to: disregarding flags, unsafe driving, disregard for track protocols, and disobeying or disrespecting marshals, safety crew, and other drivers.

Penalties for general infractions will be determined by Speed Ventures marshals and may include, but are not limited to: fines, loss of season points, disqualification, and/or suspension from the race series for up to one year.

2. Onboard Video

On board video for the entire race is a requirement of all race drivers. Video taken during race must be submitted to marshals upon request. The requirement to submit race video applies to all drivers whether or not they were involved in an incident.

Any driver who fails to provide on board video at the request of race marshals will be penalized as follows in any given race season:

- 1st Infraction: \$50
- 2nd Infraction: \$100
- 3rd Infraction: \$200
- 4th+ Infraction: \$400

Passing

4.

a) The first rule of passing in SuperMiata is that it is always the responsibility of the overtaking driver to complete a pass safely and without contact. This will never be superseded by any other rule. The overtaking driver earns the right to the line when any part of their car overlaps any part of the leading car. The intent and wording here is to leave no ambiguity on the part of either driver. Driver being passed knows there is a car there. Driver attempting pass makes sure they are seen before asserting their position.

b) The driver in front must leave one car width to edge of track to an overtaking car if there is *any* overlap. This means that if the leading driver loses track of the overtaking car, they must leave one car width to track edge. When in doubt, leave room. If the track edge is fixed or will cause vehicle damage for exceeding it (hay bale, K wall, fence, etc) the leading driver must allow 1.5 car widths. This does not mean that an overtaking driver will always be able to precisely place their car in the space. Because of

this potential for imprecision, the responsibility once again falls on the overtaking driver to complete a safe pass without contact. We fully realize that this rule makes overtaking easier. Of course that works both ways, allowing the passed driver to counter attack in the next turn. The generous nature of this rule is to reduce the possibility of contact.

c) If it is clear, upon review of in car video that the leading car made an abrupt blocking maneuver that did not allow for the high closing rate of a car attempting a pass, fault will be placed on the leading driver. In other words, just because a pass attempt may be low percentage, does not give the leading driver the right to slam the door shut and effectively initiate contact when it is otherwise avoidable.

d) If at any time during qualifying or race, a driver cuts the course (one apex) whether due to a mistake or to avoid contact, that driver will be issued a 3s time penalty for that lap. This 3s penalty will be issued for every apex that is cut during that session. Cutting an apex is defined by all four wheels on or inside of white line, dirt or kerbing delineating track edge. If tires closest to racing surface are overlapping track edge, that is considered a course cut. If the driver comes to a stop or has a complete 360° spin during the course cut, no penalty will be issued. If a 3s penalty is issued during a race, it will retroactively be added to total race time and could have an effect on finishing or qualifying positions.

5. Contact

All contact must be reported to Speed Ventures race officials upon completion of the race.

Definitions

Level 1 Contact: Assigned when one or more of the following conditions are met:

- one or both cars leave the racing surface
- one or both cars lose position
- one or both cars sustain significant or permanent damage

Level 2 Contact: Assigned when one or more of the following conditions are met:

- none of the conditions of level 1 contact
- acknowledged contact between two cars at any time during even

Fault

- No Fault (NF)
- At Fault (AF)

A Speed Ventures race marshall will attempt to assess fault. If fault cannot be reasonably assessed, all parties will be considered NF (racing incident).

Penalties accumulate on an annual basis. Each driver starts each season with a "clean slate".

All financial penalties will be paid to Speed Ventures and added to the SuperMiata SuperFund.

Level 1 AF

- 1st Incident: \$50 fine
- 2nd Incident: \$100 fine
- 3rd Incident: \$200 fine

4th Incident: \$400 fine

Level 1 NF

1st Incident: no penalty

2nd Incident: no penalty

3rd Incident: no penalty

4th Incident: \$50 fine

Level 2 AF

1st Incident: \$25 fine

2nd Incident: \$50 fine

3rd Incident: \$100 fine

4th Incident: \$200 fine

Level 2 NF

1st Incident: no penalty

2nd Incident: no penalty

3rd Incident: no penalty

4th Incident: \$25 fine

5. Procedures

Any driver who believes they were involved in contact at any point during the event must do the following within 30 minutes of contact or race end, whichever is longer:

1. Acknowledge contact with the any and all drivers involved
2. Submit contact form to race director (Aaron usually)

6. Fault Determination

Each set of contact reports will be reviewed and determination made by race director with 1 hour of race end. Each pair of cars/drivers will have one vote in determining fault, as will race director. Majority vote determines fault. Any driver not willing/able to submit video recorded during incident loses their vote.

7. Appeals

Appeal forms plus \$50 donation are to be submitted to race director within one hour of receiving determination. The race director shall recruit no less than 4 other drivers plus any number of safety workers or race observers for a hearing. It is up to race directors sole discretion to decide who hears evidence and votes in the appeal. Majority rules. No further appeal process shall be offered. If the driver submitting the appeal is found NAF, their appeal donation will be refunded. If found AF, the donation will be applied to the SuperMiata BBQ fund

D. Points and series championship

Driver must win at least one race with no less than 3 SPM legal competitors to be awarded the series championship regardless of points earned.

S1 No points drop. All points scored during 2017 will be counted towards championship

S2 Points total after dropping from lowest 6 scoring events will be counted towards championship.

S3 No points drop. All points scored during 2017 will be counted towards championship

Qualifying

6 P1

5 P2

- 4 P3
- 3 P4
- 2 P5
- 1 P6

Heat race of less than 20 minutes scheduled length

- 21 P1
- 16 P2
- 14 P3
- 13 P4
- 12 P5
- 11 P6
- 10 P7
- 9 P8
- 8 P9
- 7 P10
- 6 P11
- 5 P12
- 4 P13
- 3 P14
- 2 P15
- 1 P16

Main race of greater than 21 minutes scheduled length

- 32 P1
- 26 P2
- 24 P3
- 23 P4
- 22 P5
- 21 P6
- 20 P7
- 19 P8
- 18 P9
- 17 P10
- 16 P11
- 15 P12
- 14 P13
- 13 P14
- 12 P15
- 11 P16
- 10 P17
- 9 P18
- 8 P19
- 7 P20

Enduro of greater than 120 minutes scheduled length

- 45 P1
- 32 P2
- 26 P3
- 24 P4
- 22 P5

21	P6
20	P7
19	P8
18	P9
17	P10
16	P11
15	P12
14	P13
13	P14
12	P15
11	P16
10	P17
9	P18
8	P19
7	P20