



2022 Rules

Revision 3

(changes for 2022 rev 1 in red)

(changes for 2022 rev 2 in blue)

(changes for 2022 rev 3 in green)

1. Introduction

- 1.1. Drivers of all skill levels are welcome.
- 1.2. Chassis must be a 2012-2016 Scion FRS, 2017-2020 Toyota 86, 2022-current Toyota GR86, or 2012-current Subaru BRZ.
- 1.3. Cars will be classed according to rules and modification points listed in the following sections.
- 1.4. A car may be used in multiple classes driven by different drivers. Please notify 86DRIVE Challenge board and comment on your event registration form if you are co-driving a car.
- 1.5. A driver shall not compete in more than one class during an event.
- 1.6. If a driver modifies their car mid-season and moves up or down a class, the points earned in the previous class will NOT be carried over to the new class. Drivers may choose to not earn points in the new class and keep the points in the previous class. Drivers participating in the GT Radial Championship Prize challenge cannot change classes.
- 1.7. Prior to a driver's first event of the season, they may declare to run in a higher class than their modification points would normally dictate.
- 1.8. The following timing methods are accepted, followed by penalty, if applicable:
 - 1.8.1. Official track transponder timing – 0s penalty

- 1.8.2. AiM Solo DL, AiM Solo, other data logger with GPS – 0.1s penalty
- 1.8.3. Harry's Lap Timer with external GPS – 0.25s penalty
- 1.8.4. Harry's Lap Timer without external GPS – 0.5s penalty
- 1.9. 2013-2020 model year Scion FRS, Subaru BRZ, Toyota GT86, shall be referred to as Gen. 1.
- 1.10. 2022+ model years Toyota GR86, Subaru BRZ, shall be referred to as Gen. 2.
- 1.11. All in-season rule changes will be announced 60 days ahead of enforcement.
- 1.12. Questions, corrections, or clarifications can be asked on Facebook group page or sent to 86drivechallenge@gmail.com

2. GTRadial Stock Class

This class is to keep costs to a minimum and be attractive to drivers with nearly stock vehicles. Eligible for a cash prize.

- 2.1. Vehicles in this class are only allowed car modifications included in this section.
- 2.2. Gen. 2 lap times will be balanced to Gen. 1 lap times in this class using a time handicap added to their lap time:

2.2.1.

Track	Handicap Time
Thunderhill West	+0:01.500
Thunderhill East Bypass	+0:02.500
Thunderhill East Cyclone	+0:02.500
Thunderhill 5-mile Bypass	+0:04.000
Sonoma Raceway	+0:02.000
Laguna Seca	+0:02.500
Buttonwillow Raceway #13CW	+0:02.000

- 2.3. Engine
 - 2.3.1. Oil coolers may be used.
 - 2.3.2. Engine software must be OEM.
- 2.4. Alignment:
 - 2.4.1. Front camber shall not exceed -2.5 degrees.
 - 2.4.2. Front camber may be adjusted using only:
 - 2.4.2.1. Toyota SU003-02818.
 - 2.4.2.2. Subaru 901000394.
 - 2.4.2.3. SPC 81280 or Whiteline KCA416 in upper strut bolt position.
 - 2.4.2.4. SPC 81305, Whiteline KCA414 or Eibach 5.81305K in lower

- strut bolt position.
- 2.4.2.5. Pedders PED-580096 or Whiteline KCA335 Front Strut Mounts.
- 2.4.2.6. Camber plates.
- 2.4.3. Toe angle may be adjusted.
- 2.4.4. Caster shall not be adjusted.
- 2.4.5. Cutting or bending of any vehicle sheet metal or suspension components to change alignment or ride height is not allowed.
- 2.5. Wheels must be:
 - 2.5.1. Diameter of 18 inches maximum.
 - 2.5.2. Width of 8.0 inches maximum.
 - 2.5.3. Weight of 17.0lbs minimum.
- 2.6. Tires must be:
 - 2.6.1. GT Radial Champiro SX2 or HPY with section width of 225 maximum.
 - 2.6.2. Michelin Primacy HP in size 215/45-17 (will not be eligible for the cash prize program for the season, nor tire contingency while competing with these tires).
 - 2.6.3. A participant with a Gen. 2 car with OEM Michelin Pilot Sport 4 tires will be allowed to run their OEM tires for the first two events they compete in, and must switch to approved tires afterwards (will not be eligible for the cash prize program for the season, nor tire contingency while competing with these tires).
- 2.7. Any safety device or braking upgrade may be used.
- 2.8. Replacing OEM Gen. 1 parts with newer/older Gen. 1 parts is allowed (e.g. bumpers, dampers, exhaust manifold, intake manifold, sway bars, etc).
- 2.9. No lightweight replacement parts are allowed (e.g. battery, CF trunk) or removal of parts allowed. Spare tire, floor mat, and tool removal is OK.
- 2.10. Cars equipped with a full aftermarket safety system (bucket seats, racing harnesses, neck restraint system, full or half roll cage, etc.) are allowed to participate in Stock Class as long as total curb weight of the car with $\frac{3}{4}$ tank of fuel remains above 2758 lb (driver not included). The car will need to be weighed at a location approved by the 86DRIVE Challenge board before they are allowed to enter Stock Class.
- 2.11. No BRZ tS wing allowed.
- 2.12. OEM-style non-adjustable and non-rebuildable dampers are acceptable alternatives to OEM dampers.

3. GTRadial Street Class

This class is to keep costs low for drivers with minimally modified Gen. 2 vehicles and moderately modified Gen. 1 vehicles. Eligible for a cash prize.

- 3.1. Maximum 3 modification points.
- 3.2. Tires:
 - 3.2.1. Maximum section width of 245.
 - 3.2.2. GT Radial Champiro SX2 or HPY ~~with a maximum section width of 245~~
 - 3.2.3. Michelin Primacy HP in size 215/45-17 (will not be eligible for the cash prize program for the season, nor tire contingency while competing with these tires).
 - 3.2.4. Michelin Pilot Sport 4 in size 215/40-18 (will not be eligible for the cash prize program for the season, nor tire contingency while competing with these tires).

4. Touring class

This class allows for much more modification freedom.

- 4.1. Maximum 6 modification points
- 4.2. Maximum tire width: 255

5. Unlimited Class

For people who don't like conforming to rules!

- 5.1. Anything goes!
- 5.2. Vehicles with non-FA20/FA24 engine swaps are automatically placed in Unlimited Class.

6. Modification Points

Points	Modification
Chassis	
0	Gen. 1 (2013-2020 model year).
2	Gen. 2 (2022+ model year).

Tires	
-1	GT Radial SX2 / GT Radial HPY / Michelin Primacy HP.
0	215/40-18 Michelin Pilot Sport 4 (OEM only).
4	GT Radial SX2 RS.
2	Treadwear 200: GT Radial SX2 RS, Kumho Ecsta V730 (excluding "Super tires").
3	Treadwear 100-199 (excluding "Super tires").
4	Super tires: CR-1, AR-1, A052, RC-1 R2, VR-1 S2, RE71R, Rival S, SUR4G, RT660, Supercar 3/3R, etc. Please ask if you are unsure.
5	Treadwear 40-99.
6	Racing slicks.
Engine and Drivetrain	
1	Basic power upgrades - Any changes to intake (excluding panel filter), exhaust , header, over-pipe, front pipe, and/or tune.
1	Naturally aspirated tuned for E85/Flex fuel or gasoline greater than 93 (R+M)/2 octane rating.
2	Forced induction tuned for E85/Flex fuel or gasoline greater than 93 (R+M)/2 octane rating.
5	Forced induction. (still have to add BPU for associated parts)
1	Sequential transmission.
3	FA24 engine swap into Gen. 1.
8	Other engine swap.
2	BPU FI (Intake, Exhaust, Header/Over pipe/Front pipe, or tune)
4	Injectors upgrade
4	Camshafts

4	Intake Manifold/Plenum and/or Throttle Body (Aftermarket)
Rear Aero	
Since aerodynamic mods can be varied in form/function, they may warrant individual assessment by the 86DC board	
0	Really Small Rear Aero - OEM rear spoilers, OEM wings (excluding tS wing), and aftermarket spoilers, wings and gurney flaps 50mm in height or less.
0.5	Small Rear Aero - Aftermarket rear spoilers more than 50mm in height.
1	Medium Rear Aero - BRZ tS, SARD LSR, or any wing with max width of 1400mm, max stand height of 200mm, max chord length of 200mm, and no added gurney flap.
1.5	Large Rear Aero - BRZ tS, SARD LSR , APR GTC-200, Voltex Type 12, Voltex Type 1S. Any wing with max width of 1460mm, max stand height of 245mm, and max chord length of 250mm.
2	Unlimited Rear Aero - Wings with width greater than 1460mm, stand height greater than 245mm, or chord length greater than 250mm.
Front Aero	
Since aerodynamic mods can be varied in form/function, they may warrant individual assessment by the 86DC board	
0.5	Small Front Aero - STI lip, TRD lip, or any device that extends up to 50mm outward or rearwards from the bottom edge of the bumper.
1	Medium Front Aero - any device that extends greater than 50mm, up to 75mm outward, and any distance rearward from the bottom edge of the bumper.
2	Large Front Aero - any device that extends greater than 75mm, up to 125mm outward, and any distance rearward from the bottom edge of the bumper.
5	Unlimited Front Aero - any device that extends greater than 125mm outward, and any distance rearward from the bottom edge of the bumper.
0.5	Canards/dive planes, or any vertical deviation on splitter.
4	Wide body or fender flares, front and/or rear.
4	Dual element wing (must take points for Big Wing also)
2	Triple element wing (must take points for Big Wing also)
3	Splitter (flat surface only, up to 7" from forward-most edge of bumper) includes Airdam

4	Any active aero control. Must take points in addition to aero devices.
Suspension	
0	OEM-style non-adjustable, non-rebuildable dampers with any OEM-style springs or non-adjustable coilovers.
1	1 & 2 way adjustable dampers and non-adjustable rebuildable dampers.
2	3+ way adjustable dampers.
4	Active suspension
Weight Reduction	
1	Removal of any interior pieces not related to installation of a roll cage OR completely stripped interior, regardless of cage. *
4	Lexan windows

* Examples:

- Removal of rear seats with no cage: 1 point
- Removal of rear seats and panels for a rear half cage: 0 points
- Removal of front dash with only a rear half cage: 1 point
- Completely stripped interior: 1 point

7. Championship Scoring

7.1. Championship points are awarded at the end of each event according to the chart below:

Finish Position	Points
1 st	10
2 nd	7
3 rd	5
4 th	4
5 th	3
6 th	2
7 th or lower	1

7.2. At the end of the season, the driver with the most points from 7 of the best

scores out of 10 events wins the championship.

- 7.3. Ties will go to the competitor with the lowest time at any Thunderhill East 86DRIVE Challenge event during the season.