**LSR-PCA 2022+ Autocross Classing Rules**

**(Based on PCA Parade and National Rules and Classing Framework)**

1.0 **Automobiles** will be timed while driving a course laid-out on a paved area. Safety of the entrants, workers and spectators will be of paramount importance in the design and conduct of the event.

2.0 **Classification** Entrants are responsible for properly classifying their automobiles.

2.1 **Categories** There are five categories of classes – Showroom Stock, Production, Improved, Modified and Novice. Categories are related to automobile configuration and experience level.

**Novice class** is intended for drivers that have never autocrossed or do not compete on a regular basis. The car must meet criteria for S or P classes. Participants can have competed in no more than three autocrosses in the last twelve months and can never have received an autocross award. Safety and instruction are to be emphasized with an assigned instructor coaching the entrant from the drivers’ meeting through the end of the entrant’s runs. The novice drivers will have an instructor assigned to help answer any questions the driver has. The instructor will go over the course before the first run and will go over the course after each run is completed.

**Showroom Stock (S) Category** classes are available for a limited number of recently manufactured automobiles. This category contains automobiles as normally delivered and specified for use in the United States and Canada. Factory options as normally available for a specific model year are permitted. Certain factory and/or dealer installed equipment/options will move an automobile out of S and into Production or higher as specified in the Modifications Allowed List (Appendix V) table so as to maintain the intent and integrity of the Showroom Stock classes.

The **Production (P) Category** contains automobiles (as normally delivered to the United States and Canadian public through authorized sales outlets of the manufacturer) with limited performance affecting changes from stock.

**The Improved (I) Category** contains automobiles with more substantial performance-affecting changes from standard (stock) specification, whether changed by the factory, dealer or owner. These modifications have defined limits. These automobiles are classed according to their number of cylinders and actual displacement.

**The Modified (M) Category** contains automobiles that have performance-affecting modifications outside of the limits of the Improved category and for race automobiles (factory-built or otherwise). Factory and non-factory race cars are considered modified.

**Class Chart:**



2.1.0 For the purpose of **Automobile Classification**, factory options as normally delivered for a specific automobile and/or model year are permitted. Certain factory and/or dealer installed equipment/options will move the automobile out of the Showroom Stock or Production Categories. However, those dealer and factory options that are not considered to improve performance are allowed in the Showroom Stock and Production classes (i.e., trim packages, air- conditioning, etc.).

2.1.1 **Showroom Stock** automobiles, delivered from the factory with tread wear tire ratings of less than 180, may run in their respective Production Category classes. These automobiles must run tires equivalent to those specified by Porsche for that year and model and have no additional alterations or modifications.

2.1.2 **Showroom Stock or Production** classes are also the starting point in the determination of final classification of the automobiles that have been changed from stock. If an automobile is not a United States- specification automobile, the entrant must be able to prove that the automobile is equivalent to the respective Production automobile (as delivered to the United States public through authorized sales outlets of the manufacturer) to qualify for Production classification or equivalent to the respective Improved automobile to qualify for Improved classification; otherwise the automobile will be classified in the Modified category. DOT and/or EPA Certification alone do not make an automobile equivalent to a U.S. specification automobile.

2.3. **Class Scoring** All automobiles in a class must run in the same time frame.

2.4. **Category Progression**

**Showroom Stock** automobiles are not permitted any modifications beyond 2.5.4. and 2.5.5.f.

**Production** category automobiles, the classification of your automobile depends not only on the model but also on the type of changes (if any) made to or options on the automobile. Improvements and alterations may cause your automobile to progress into a different class. The Modifications Allowed List provides an overview, but not a definition, of what modifications are allowed for what categories. Each category section will define the limits or allowances for particular items as listed below. If a modification is not specifically listed, it is not allowed in that category except in Modified.

2.5. **Production** Allowances

IF THE RULES DO NOT SPECIFICALLY PERMIT A MODIFICATION, IT IS NOT ALLOWED - EXCEPT IN MODIFIED.

Allowances are divided up into five categories: Free, Showroom Stock, Production, Improved and Modified. Some modifications are “free,” that is, allowed without effect on classification. Other modifications from Stock are considered to affect performance and therefore may move the automobile into any of the Production, Improved or Modified Class depending on the performance effect of the modification. If certain modifications specified in the text are performed on your automobile, you will be moved to the Production, Improved or Modified class where that modification is permitted. In Modified, the rules specify the minimum requirements necessary to compete. General automobile technical specifications are listed in Appendix VI.

2.5.2. Update/Backdate Modifications Groups (Production/Improved)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 911 Turbo (930) | 1986-89 |  | 986: Boxster | 1997-04 |
| 911 Turbo (964) | 1990-94 |  | 986: Boxster S | 2000-04 |
| 911 Turbo (993) | 1996-98 |  | 987: Boxster/S | 2005-2012 |
| 911 Turbo (996) | 2001-05 |  | 987: Cayman/S | 2006-2012 |
| 911 Turbo (997) | 2006-13 |  | 981: Boxster/S/GTS | 2013-2016 |
| 911 Turbo (991) | 2014-On |  | 981: Cayman/S/GTS/GT4 | 2013-2016 |
| 944 | All |  | 718: Boxster/Boxster S/GTS | 2017 - On |
| 944S | All |  | 718: Cayman/Cayman S/GTS | 2017 - On |
| 944S2 | All |  | 9PA: Cayenne | 2004 - On |
| 944 Turbo (951) | All |  | Cayenne S/GTS | 2003 - On |
| 968 | All |  | Cayenne Diesel | 2012 - On |
| 924 | All |  | 9SB: Macon S /GTS | 2014 - On |
| 928 | All |  | Macon Turbo | 2014 - On |

2.5.3. Changes outside the Model Range

The degree of updating or backdating will, in most cases, affect the degree of class/category progression. Selective substitution, as opposed to complete substitution, may result in a category change. For instance, if only one or two major components (such as an engine and/or transmission) are substituted from outside the model range without completely updating or backdating the automobile, then the automobile may change categories. However, if an automobile should be completely updated or backdated, it would then be classed according to its new (substituted) model range. An example would be a 1972 911 engine installed in a 1967 chassis. Then to achieve a complete update, a1972/1973 transmission and associated ring and pinion gear must also be installed plus the wheel base must be lengthened and the new weight must be in the1972/1973 range. Items that do not affect performance need not be changed. Car must meet all specifications per Appendix VI.

2.5.4. “Free” Modifications

Safety equipment is free in all classes except Showroom Stock, provided limits of any class category are met. Items considered free include harness bars, fire extinguishers, non-factory seat belts, race seats, window nets, head rests, cut-off switches, tow hooks, seat back braces and required mounts for any of the above. In Showroom Stock, attachments points or mounts for any of these items may be left in the automobile, but the actual device will not be allowed to remain or be used if it could be considered to provide the driver or the automobile any performance advantage.

2.5.5. Chassis/Body/Interior

(a) Limited Fender Modifications: Fenders (including wheel openings) may be modified provided the tire - wheel -spacer combination and ride-height setting used could be used without the fender modification (i.e., could be used on an unmodified automobile of the same model and year.)

(b) Interior Modifications: Any accessory, gauge, or indicator may be fitted if its purpose is to improve driver or passenger comfort or convenience and provided such items have no effect whatsoever on mechanical performance. Alternate seats may be used and floor mats may be removed. Any steering wheel is allowed.

(c) Roll Bars: Roll bars are permitted. Full interior roll cages are not permitted.

(d) Spoilers: Any rear spoiler, unless as delivered as a factory option, is permitted provided the leading edge of the spoiler is attached to the automobile, the spoiler is no wider than the stock body width and the spoiler doesn’t exceed 5” in height from the leading edge. Any rear wing may be used as long as it is not wider than the door handles; does not extend past the rear of the car; no part is higher than the roof; and has less than six (6) square feet of area for all wing element. (measured from directly above the car).

(e) Air Dams: Any front air dam or splitter, unless as delivered as a factory option, is permitted provided it does not extend to less than 2.5 inches above the ground and not more than 4 inches forward of the front bumper. Splitters cannot be wider than the bumper.

(f) Seam Reinforcement (914 only): Seam reinforcement kits are permitted “free” on 914s, provided each reinforcement is limited to a single seam and that all reinforcements combined do not substantially increase the rigidity and stiffness of the chassis. It is recommended to 914 model owners to have the chassis inspected for rust on a periodic basis.

(g) Bumpers: Bumpers may be removed on any 356 series automobile.

(h) Bolt -on windshields: Bolt -on windshields may be removed.

(i) Jack/Tools/Manuals: Removal of jack, tools and owner’s manual(s) is allowed.

2.5.5.5. Transmission

(a) Limited Slip: Any type of differential is permitted in all automobile. Spools or welded differentials are not permitted.

b) Gear Shift Linkages: Gear shift linkages may be modified or exchanged. This permits the use of a short shift kit in any automobile or the use of side –shifter transmission in any 914.

2.5.6. **Improved Modifications**

The Improved category is for street vehicles with modifications beyond those allowed in the Production. The modifications are limited but much more liberal than those in the Showroom Stock or Production Categories. The following adjustments, alterations, or modifications are allowed in the Improved class automobiles plus what was allowed in the Showroom Stock and Production classes.

2.5.6.1. Engine

(a) Mufflers: Mufflers may be removed provided this is permitted by the event organizer and the local authorities/jurisdiction.

(b) Ignition: Any ignition system is allowed.

(c) Gasoline: Any gasoline is permitted.

(d) Engine Substitution: Any Porsche engine is permitted in any Porsche automobile.

(e) Fuel Management: Automobiles may use any fuel management/induction system including chips or other means that alter turbo boost. Turbochargers or superchargers are permitted.

(f) Compression Ratio: Engine compression ratio’s maybe increased up to 1.0 points.

(g) Battery Location: The battery may be located anywhere within the automobile.

(h) Intake System: Any intake system may be used.

(i) Wet/Dry Sumps: Any change or addition is permitted.

(j) Cam shafts: Any camshaft may be used.

2.5.6.2. Suspension

(a) Shocks Absorbers: Multi-adjustable or remotely adjustable shock absorbers are permitted.

(b) Camber Plates: Camber plates are permitted. Machining of factory mounting points is permitted to allow greater suspension adjustment.

(c) Raised Spindle: Raised spindles are permitted on strut type suspensions.

(d) Suspension Mounts: Any suspension mount may be used provided the number of mounting points and mounting locations remain as factory.

(e) Suspension Arms: Any suspension arm may be used provided use requires no other automobile modifications. For example, this includes the use of any lower control arm, tie -rod assembly and/or bump steer kit.

2.5.6.3. Wheel/Brake/Tire

(a) Brakes: Any brake modifications are permitted. Any brake biasing valve is permitted.

(b) Tires: Any DOT tire is permitted. The cord may not be visible before, during or after official timed runs.

(c) Track Width: Modifications to track width are permitted up to 2.0” over stock. Only 356 models with drum and very early disc brakes may use individual spacer for each wheel stud.

(d) Increase Rim Width: Rim width is free so long as the width does not extend beyond the fender.

(e) Wheels: Wheels may be any diameter.

2.5.6.4. Chassis/Body/Interior

(a) Roll Bars/Roll Cages: Roll bars or full interior cages are permitted. See Appendix XII for additional information, specifications and requirements.

(b) Spoilers: Any rear spoiler, delivered as a factory option, is permitted. All others are permitted provided the leading edge of the spoiler is attached to the automobile. The spoiler can be no wider than the stock body width and the spoiler does not exceed 10 inches in height, from the leading edge. Any rear wing can be used as long as it is not wider than the door handles; does not extend past the rear of the car; no part is higher than the roof; and has less than 8 square feet of area for all wing elements (measured from directly above the car)

(c) Air Dams: Any front air dam or splitter delivered as a factory option is permitted. All others are permitted provided it does not extend to less than 2 inches above the ground and not more than 5 inches forward of the bumper. Splitters cannot be wider than the front bumper.

(d) Interior: Automobile, at minimum, must have dashboard, windows (glass or Plexiglas), visors (if originally equipped), headliner, and door panels. The original number of seats and passenger restraints must be present. Removal of mats and loose carpeting is allowed (i.e., what isn’t originally screwed and/or glued down). Headlights, taillights, brake lights and turn signal lights must be operational.)

(e) Bodywork: The use of fiberglass or other material body components is permitted for the following components: hoods (front and rear), rear deck lids, bumpers and rocker panels.

(f) Fenders: Fenders may be altered to allow fitting of alternative wheels and tires. All four tires shall not extend beyond the fender opening at the highest point of the tire.

(g) Fuel Tanks: Fuel tanks may be changed and/or relocated.

2.5.6.5. Transmission

(a) Transmission: Any Porsche-based transmission is permitted.

(b) Transaxle gear ratios. Any ratio set may be used outside of the specified gear set. Ring and pinion may be altered.

(c) Limited Slip: Any differential may be used.

2.5.7 **Modified Modifications**

The modified category includes all automobiles modified beyond the allowable limits specified in the Showroom Stock, Production and Improved categories as well as some Limited Production and “tuner” automobiles. These rules provide the minimum that is required for the automobile to compete in this category. Some items are specified that are not allowed in this category. Unless defined as a production vehicle with complete documentation proving so, all racing, rally and special non–production Porsche models shall be included in this category.

2.5.7.1. Engine

(a) Engine: A Porsche-based engine is required.

(b) Displacement: The displacement may be increased to that of the maximum in the class.

(c) Fuel Management: Modifications to the fuel injection or carburetor systems are free. The use of turbochargers or superchargers other than those used in production is permitted by class allowance. Modified boost pressure is permitted.

(d) Ignition: Any ignition system is permitted.

(e) Nitrous Oxide Systems: These systems are not permitted.

2.5.7.2. Suspension

(a) Machined Suspension: Any adjustment maybe made and machining is allowed (such as machining to attain negative front camber on356-series cars). Suspension points may be relocated.

(b) Multi-linked Suspension: This suspension type is permitted and is free.

A-2.5.7.3.Wheels/Brake/Tire

(a) Wheel and Tire: Any wheel and tire combination is permitted. Non-DOT tires are permitted. The cord may not be visible before, during or after official timed runs.

2.5.7.4. Chassis/Body/Interior

(a) Chassis: Original Porsche-based chassis, unibody or tube frame chassis is permitted.

(b) Roll Bars/Roll Cages: Roll bars or full interior cages are permitted. In some instances, they may be required. See Appendix XII for additional information, specifications and requirements.

(c) Bodywork: Automobile bodywork must maintain recognizable external features of the Porsche model. Tires may extend beyond the fender opening. Automobile bodywork must include a front and rear trunk or deck lid and doors.

2.5.7.5. Transmission

(a) Transmission: Any transmission is allowed.

2.5.8. Other Modifications.

Any equipment, component, part, or modification which is deemed performance- affecting and which is not specified will make the automobile entered subject to reclassification to a higher class or category by the Safety Inspection team or the Protest Committee at their discretion or by protest of a competitor in the same class the automobile is competing.

3.0 **Course Boundaries**

The autocross boundaries will be defined by either the edge of pavement, pylons or a combination of these.