

## **NNJR-PCA Autocross Classes and Procedures, 2015**

**For 2015 NNJR-PCA will be using PCA's "Mid Sized Region" classes, with the following notes:**

1. We will run Ladies' classes if we have a minimum number pre-registered on Motorsportreg.com. For the April event this is 5.
2. Find your model and year in the lists below.
  - a. Stock means truly stock – no modifications
  - b. 80% of cars will be production
  - c. Improved and Modified (combined) capture heavily modified competition cars
3. Note that for 2015 all S and P classes require street tires with DOT tread-wear  $\geq 140$
4. Generally, after 3 generations, older cars are moved into the "production" category – so even though your car may be stock to you, if old enough, it may no longer qualify for stock under PCA rules
5. We will run a smaller number of "super-classes" (stock, production...) and "PAX" (handicap) the sub-classes to make to more generally competitive
6. There will be a new "FUN" class – don't worry about classing, just learn the sport and improve your technique and times (no trophies though!)

Class assignments are immediately below. Find your car and see what class it fits into.

We have also reproduced the requirements for "stock" and "production" classes at the end of this document, for your convenience.

*Please also see our AX tech Form*

**Stock Classes:**  
**(140 tread-wear)**

**Class S1:**

968 (All), 911 Carrera 2 (964:1990-1994), Carrera 4(964:1989-1994), RS America (1993-1994), Boxster (986:1997-2004), Cayenne (9PA:2003- On), Panamera (2010- On)

**Class S2:**

911 Carrera (993:1995-1998), Boxster S (986:2000-2004), Boxster (987:2005-On), Cayman (2006-On)

**Class S3:**

911 Carrera (996:1999-2004), 997 (2005-On), 911Carrera (991:2012-On), all except 991S, 911C2 Turbo (965: 1990-1994), Boxster S (987:2005-On), Cayman S (2006-On);

**Class S4:**

993 Turbo (All), 996 Turbo (Non-GT2), 997S except X51 (2005-2009), 991S (2012-On), (All), Boxster Spyder, Cayman R

**Class S5:**

997S X51 (2007-2009), 997S/GTS (2010-On), 996 GT2/GT3 (2002-2005), 997 GT2/GT3/GT3RS (2007-On), 997 Turbo (All), Carrera GT (980:2004-On)

**Fun Class**

No rules. No classes. No PAX (handicap) times.

**Production Classes:**  
**(140 tread-wear)**

**Class P1:**

356 (All), 912/912E (All), 914/4 (All), 924 (All), Cayenne (9PA:2003-On), Panamera (2010- On)

**Class P2:**

911 (1965-1969), 911 (1970-1977), 914/6 (All), 924S (all), 924 Turbo (931: All), 944 (All), 944S (All)

**Class P3:**

911SC (1978-1983), 911 Carrera 3.2 (1984-1989), 911 Speedster (1989); 944 Turbo (951: All), 928 (All)

**Class P4:**

911 Carrera 2 (964:1990-1994), Carrera 4 (964:1989-1994), RS America (1993-1994), 944S2 (All), 968 (All), Boxster (986:1997-2004)

**Class P5:**

911 Turbo (1976-1989), 911 Carrera, Carrera S, C4S (993:All), Boxster S (986:1997-2004), Boxster (987:2005-On), Cayman (2006-On)

**Class P6:**

911 Carrera (996:1999-2004), 997 (2005-On), 911 Carrera (991:2012-On), all except 991S, 911C2 Turbo (965: 1990-1994), Boxster S (987S: 2005-On), Cayman S (2006-On)

**Class P7:**

997S except X51 (2005-2009), 991S (2012-On), (All), 993 Turbo (All), Boxster Spyder, Cayman R

**Class P8:**

996 Turbo (Non-GT2), 997S X51 (2007-2009), 997S/GTS (2010-On), 996 GT2/GT3 (2002- 2005), 997 GT2/GT3/GT3RS (2005-On), 997 Turbo/Turbo S (All), Carrera GT (980:2004-On)

## **Improved & Modified Classes:**

### **Class I01:**

Improved Automobiles (All 4 Cylinder, up to 1999cc, 1800 pounds minimum; All 4 Cylinder, 2000cc up to 2699cc, 2500 pounds minimum; All 4 Cylinder, 2700cc and above and All 6 Cylinder, up to 2399cc, 2200 pounds minimum)

### **Class I02:**

Improved Automobiles (All 6 Cylinder and above, 2400cc up to 3199cc, 2150 pounds minimum; All 6 Cylinder and above, 3200cc and above; 2700 pounds minimum; All Turbo/Supercharged 4 Cylinder; 2150 pounds minimum; All Turbo/Supercharged 6 cylinder and above; 2500 pounds minimum)

### **Class M01:**

Modified Automobiles (All 4 Cylinder, up to 1999cc; All 4 Cylinder, 2000cc up to 2699cc; All 4 Cylinder, 2700cc and above; All 6 Cylinder, up to 2399cc)\

### **Class M02:**

Modified Automobiles (All 6 Cylinder and above, 2400cc up to 3199cc; All Turbo/Supercharged 4 Cylinder; All 6 Cylinder and above, 3200cc and above; All Turbo/Supercharged 6 cylinder and

#### **A-2.5.4. Showroom Stock Modifications.**

Unless otherwise specified in these rules, no alterations or modifications are allowed to these automobiles.

Only original equipment manufacturer (OEM) wheels as originally specified and OEM tire sizes as originally specified for each specific model year are permitted. All Showroom Stock class tires must have a tread wear rating of 140 or greater. Wear and tear items, excluding tires, must be comparable in construction and specifications to the originally supplied factory components. Adjustments are permitted provided no modifications and/or alterations are necessary to achieve the desired adjustment. Automobiles must run with their spare tire, jack, lug wrench, owner's manual(s), tools, etc. Owner's manual(s) will be used to help verify questionable equipment options and designated wheel/tire sizes.

No aftermarket equipment that might be reasonably perceived as performance affecting is permitted in these classes. Items included in this restriction include, but may not be limited to, aftermarket air filters, aftermarket exhaust systems, aerodynamic aids, computer chips, five/six point seatbelts, race seats, harness bars, roll bars, roll cages, etc.

## **A-2.5.5. Production Modifications.**

The Production category is for street automobiles altered beyond the Showroom Stock limits and older Porsches. The following adjustments, alterations or modifications are allowed in the Production class automobiles plus what was allowed in Showroom Stock. Automobiles may be updated to another model provided all of the automobile is brought up to that models specifications.

### *A-2.5.5.1. Engine*

- . (a) Air Cleaner: The air cleaner may be removed or replaced with another type.
- . (b) Modified Ignition: Any modification is permitted, provided an original type distributor is used.
- . (c) Modified Carburetors: Any automobile originally carbureted may have any carburetor, provided the throttle bore and venturi dimensions are not changed from original specifications. Jet sizes may be changed. 911 models with mechanical fuel injection or Solex carburetors may change to replacement carburetors that have throttle bores no larger than 40mm. 914/912E models may be converted to carburetors with throttle bores no larger than 40mm.
- . (d) Fuel Injection: No substitution of performance affecting components for fuel injected automobiles is permitted. Any DME EPROM chip may be used except for those chips programmed to alter turbo boost. No modifications to the intake manifold are allowed.
- . (e) Wet Sump Modifications: If an automobile has a wet sump lubrication system, the sump may be modified to ensure a constant source of engine lubrication at the oil pickup tube. If an automobile has a dry sump lubrication system, no modifications are permitted.
- . (f) Modified Oil Cooler/Filter: The addition of any oil cooler and/or filter is permitted.
- . (g) Substituted Roller Bearing Cranks: For 356-based or Carrera 4-based engines, any roller bearing crank may be used. Plain bearing cranks may be substituted for roller bearing cranks. Counterbalanced cranks are permitted.
- . (h) Balanced Engine: Balancing of internal engine parts is permitted.
- (i) Camshafts: The stock camshaft must be used.

### **A-2.5.5. Production Modifications (continued)**

- (j) Exhaust Modifications: Alternate exhaust systems are permitted after the head(s) for automobiles with or without catalytic converters. Headers are permitted. A muffler is required. Air pumps may be removed.
- (k) Air Conditioning: Removal is permitted provided original automobile may have been delivered without it.
- (l) Overbore: Overbore is allowed up to 1.2MM(0.047”).
- (m) Gasoline: Any grade of automotive gasoline available to the general public through normal retail service stations is permitted.
- (n) Clutch: Any model clutch is allowed. Rubber center clutch discs may be replaced with spring discs. The flywheel may be lightened.
- (o) Velocity Stack: Velocity stacks may be added or modified.
- (p) Compression Ratio: Engine compression ratio's may be increased up to .5 points from U.S. production specifications.
- (q) Fuel Pump: Fitting of an electric fuel pump is permitted.
- (r) Chain Tensioners/Guards: Any chain tensioner or guards are permitted.
- (s) Battery: Any battery may be used. Those automobiles delivered with two batteries may remove one.

#### *A-2.5.5.2. Suspension*

- (a) Limited Suspension Adjustments: Any adjustment of the standard suspension components is permitted, provided no machining is required for the adjustment. Factory components must be used for mounting of struts and shock absorbers to the body.
- (b) Alignment: Any adjustment may be made provided no other change is necessary to make the adjustment.

### **A-2.5.5. Production Modifications (continued)**

(c) Coil Springs/Torsion Bars: Any coil spring may be replaced by any other coil spring. Any torsion bar may be replaced by any other torsion bar as long as they are of the same type and mount in the same manner without modification to the chassis or suspension components.

- . (d) Shocks Absorbers: Any shock absorber may be used provided it is not remotely adjustable.
- . (e) Adjustable spring perches are allowed.
- . (f) Sway Bars: Any anti-sway bar may be installed. Sway bar may not be adjustable from the cockpit.
- . (g) Rear Camber Compensation (356 Only): Any rear camber compensating device may be used.
- . (h) Bushings: Non-standard (non-elastic) suspension bushings may be used.
- . (i) Shock Tower Brace: A front and/or rear shock tower brace may be used in any automobile provided that: (1) it can be quickly and easily removed, it must be a bolt-in component. Any number of attachment points may be used; (2) all attachment points are within three inches of a vertical plane passing through the top center of the shock absorber.
- . (j) Spring Plates: Adjustable spring plates are permitted on any automobile not so equipped from the factory.

provided no modifications to the automobile, other than increasing the stud/bolt length, are performed. Increase may not be more than 1.0" over stock. Only 356 models with drum and very early disc brakes may use individual spacers for each wheel stud.

(c) Brakes: Pads, linings, and brake lines of any manufacture may be used. Any type of brake cooling may be used. Rotors may be drilled or slotted. Brake bias valve may be changed but cockpit adjustable valves are not permitted.

(d) Increased Rim Width: Rim width may be increased up to 1.0" over the widest rim available from the factory (front and rear respectively; see Appendix V) for that model range so long as the width does not extend beyond the stock fender width as measured from the top of the tire and fits the stock fender wells.



## **A-2.5.5. Production Modifications (continued)**

(e) Wheels: All wheels shall be the same diameter as available from the factory for the model range of the automobile or within an increase or decrease of 1.0” from the factory specifications.

(f) Spare Tire: The supplied spare tire may be removed

(k) Tie-Rod Ends: The use of 911 Turbo tie-rod assemblies is permitted. *A-2.5.5.4.Chassis/Body/Interior*

(l) Hydro-pneumatic Suspension: Removal of this suspension is not only allowed but is encouraged.

(m) A-arms: 924/944/968 series may use aftermarket a- arms provided suspension geometry is not altered.

### *A-2.5.5.3. Brake/Wheel/Tire*

. (a) Tires: All tires must be Department of Transportation (DOT) approved. Any DOT listed tire may be used providing they have a visible tread, have DOT wear indicators and have visible tread across the entire tread surface. These may be “R” type tires. Tire aspect ratio and width is free but must fit under the stock fender wells. Tires must be marketed nationally and generally available to all competitors. The cord may not be visible before, during, or after runs. Recapped tires or re-grooved tires are not allowed. Competitors are responsible for policing the "rubbing tire" rule and protests must be made before timed runs.

. (b) Track Width: Modifications to track width by the use of wheel spacers and/or wheel offset are permitted

(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.) In the event of a protest, the entrant must be able to prove compliance with this rule.

(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.

### **A-2.5.5. Production Modifications (continued)**

- (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.
- . (e) Air Dams: Any front air dam , unless as delivered as a factory option, is permitted provided it does not extend to less than 3" above the ground and not for- ward of the front 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) Weight: Automobile must meet minimum weight. Ballast is not allowed.
- . (i) Bolt-on windshields: Bolt-on windshields may be removed.
- . (j) Jack/Tools/Manuals: Removal of jack, tools and owners manual(s) is allowed.

#### *A-2.5.5.5. Transmission*

- . (a) Limited Slip: Limited slip is permitted in all automobiles
- . (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.

***For 2015 NNJR-PCA Autocross, if your car does not meet the above guidelines, it will be classed in either Improved – 01 or Improved -02. Please refer to the 2015 PCRs.***