

Speedway Willow Springs Sport Compact Division

2/26/15

- 1. SAFETY EQUIPMENT:** Rules apply at all times car is on track. Roll bar padding required in driver compartment. Driver-side window net required and must be mounted to roll cage so latch is at top front of window. Minimum three inch wide SFI-approved five point safety belt assembly required, must be mounted securely to main roll cage. *Recommended: Safety belts no more than three years old.* Kill switch required within easy reach of driver and must be clearly marked 'OFF' and 'ON'. "Horse Collar" or Neck Donut Mandatory, Head and Neck restraint recommended.
- 2. BODY/CHASSIS:** Any front wheel drive, compact car with three or four cylinder engine. All cars must remain strictly OEM. Must be unaltered OEM appearing body. Bodies may be cut for wheel clearance ONLY. No convertibles or two seat sport cars allowed, Maximum wheelbase 107 inches, maximum ½ inch difference from side to side. OEM steel unaltered floor pan only. Inner fenders may not be removed. Hood and trunk lid/hatch must be securely fastened. All doors must be securely welded or bolted. All glass, exterior lights, chrome/plastic trim and hood insulation must be removed. Dash may be removed, but can remain. Maximum seven inch front and rear sun visors allowed, opera window may be closed. Skirting allowed, cooling scoops OK, body must maintain OEM appearance. Car number must be minimum four inches wide and 20 inches tall and clearly visible, on both sides, top and back of car, and front, if possible.
- 3. VEHICLE IDENTIFICATION NUMBER (V.I.N.):** The V.I.N. must remain clearly visible and unaltered in at least one of the OEM locations. Any car missing the V.I.N. will not be allowed to compete. *All competitors must maintain a copy of their vehicle repair manual.* This will be used to confirm OEM specs and parts on each car by SWS TECH.
- 4. BUMPERS/RUB RAILS:** Bumpers must be OEM, in OEM location, welded, chained or cabled to frame. OEM bumper covers should remain. May have one horizontal bar - maximum 1.75 inch OD - tying front frame horns together ahead of radiator. One additional maximum one inch OD bar may be added for radiator protection; must be behind bumper, within confines of body, no wider than OEM frame horns. No bars past outside edge of body. LEXAN exterior rub rails are OK to protect bodywork. Must run parallel to ground.
- 5. ROLL CAGE:** Six-point, full perimeter roll cage required. Must use minimum 1.5 inch O.D. with 0.095 inch wall thickness tubing. Rear hoop must have "X" bracing configuration. Rear kickers required. *Recommended: front brace bar from main halo to front cowl.* Forward brace bar allowed from main cage to front strut tower. Must have 1.25 inch minimum O.D. cross bar in top halo. Cage must be electric welded and attached using adequate plating (*Recommended: minimum 0.250 inch*). No iron, galvanized pipe or fittings, square tubing, brazing or soldering allowed.
- 6. DOOR BARS:** Minimum three horizontal door bars on driver side and two horizontal door bars or X on passenger side. Both sides must have vertical bracing from top to bottom door bars. All tubing must be minimum 1.5 inch O.D. with 0.095 inch wall thickness. Steel door plates, 18 gauge or 0.049 inch minimum thickness, must be securely welded to outside of door bars on driver side. Plate must cover area from top door bar to frame and from rear down post to five inches in front of seat. Must be visible for inspection. Gutting of Driver's door may be permitted for installation of safety cage and plating.
- 7. DRIVER COMPARTMENT:** Minimum 3 windshield bars with protective screen mounted in front of driver or 1/8 inch LEXAN Windshield with 2 retaining straps. Aluminum high-back racing seat required. Must be securely mounted to roll cage using 0.375 inch bolts. Driver must be sealed off from track, engine, transmission and fuel cell/tank. No gutting allowed except for roll/door bar clearance. All flammable material, radio and air bags must be removed. Front and rear firewalls must remain and have no holes. Interior must remain open, no sealing or covering of passenger compartment.

- 8. SUSPENSION AND STEERING:** All components and mounts must be unaltered, OEM and match year, make/model of car used. **Exception is:** *Recommended right rear safety hub (for example 1987-1995 Caravan hub assembly)*. Brace bar allowed between strut towers in front and rear. No other bracing allowed on front end. No weight jacks, No modifications, No racing components, aftermarket or homemade. **OEM ONLY!** No traction control devices allowed. Rear wheels must track straight ahead and be in alignment with front wheels. **Maximum Rear Toe ½ inch.** No more than 5 degrees camber on any wheel. No center steering. Quick release steering wheel is allowed, must maintain OEM column. No aftermarket remote reservoir power steering.
- 9. SPRINGS/SHOCKS/STRUTS:** All shocks and struts must remain OEM, in OEM location. OEM springs may be modified. Spring rubbers allowed. Spacers may be fabricated if necessary.
- 10. TIRES AND WHEELS:** DOT 13, 14, 15 or 16 inch diameter unaltered passenger tires only. Minimum 60 series, M, N, P, Q, R, S, T, and H speed rated tires only. No racing, mud or snow tires. No re-caps, softening, conditioning, grinding, sanding, siping or grooving allowed. Must be OEM steel or aluminum wheels, with standard bead bump and maximum seven inch width. Reinforcing of wheels recommended. Tires must be inside of body. No wheel spacers or bleeder valves. Recommend using one inch O.D. steel lug nuts on steel wheels.
- 11. BRAKES:** Must be unaltered, OEM ONLY AS DELIVERED BY MANUFACTURER operative, four wheel disc or drum brakes, and match year, make and model of car used. OEM master cylinder only, in OEM location. No brake shut off or bias adjuster. Steel brake lines only. Braided ends OK
- 12. EXHAUST:** Exhaust manifold must be unaltered, OEM for year, make and model of car used. Smog pump, catalytic converter and air conditioning compressor may be removed. Exhaust must extend beyond driver and turn toward ground. No exhaust through driver compartment. Track may require mufflers.
- 13. WEIGHT:** No ballast (extra weight) of any kind allowed unless mandated by track officials. Any item deemed as ballast will be required to be removed.
- 14. BATTERY/STARTER:** One 12 volt battery only. Must be securely mounted with positive terminal covered. Battery must be in marine type case if mounted in driver compartment. OEM starter only, must be in OEM location. Car must leave initial staging area on demand, unaided, or go to rear of that race.
- 15. GAUGES/ELECTRONICS:** 12 volt ignition system only. No ignition boxes. No performance chips. All ignition components must be unaltered, OEM and match year, make and model of car used. Aftermarket analog tach, oil pressure and water temp gauges only. Vehicle computer (ECU) should be mounted in accessible location for inspection. Tune Loaded to ECM + TCM Must be OEM FACTORY ONLY, No re-flash tuning permitted – No performance “Chips” No data logging devices permitted.
- 16. FUEL SYSTEM:** Gasoline only, OEM Gas tank ahead of rear axle allowed but must install shield under it. Gas tank behind rear axle must be replaced with minimum eight gallon and maximum 12 gallon fuel cell and relocated to trunk area. Must mount with minimum two solid steel straps around entire cell, two inches wide and 0.125 inch thick. Metal firewall or cell cover must be between driver and cell. Fuel cell vent, including cap vent, must have check valve. If racing fuel cell does not have aircraft style positive seal filler neck/cap system - a flapper, spring or ball type filler rollover valve is required. External electric fuel pump wired to the ignition switch allowed with aftermarket fuel cell. No cool cans. Fuel lines through driver compartment must be dedicated fuel line material, neoprene or braided and run through a steel tube for protection.

17. TRANSMISSION: Must use OEM, unaltered transmission that came in year, make and model of car used. All forward and reverse gears must be operational. Flywheel, flexplate, clutch assembly and torque converter must be unaltered, OEM for year, make and model of car used. No mini clutches or couplers. Must have inspection hole in bell housing (accessible from top). No transmission coolers in driver compartment. No torque dividing final drive. No locked differentials.

18. ENGINE COMPARTMENT: Engine and radiator must be OEM, in OEM location for year, make and model of car used. May use solid engine mounts or safety chains. No accumulators/accusumps. AC compressors, Condensers and smog pumps may be removed. Radiator catch can mandatory in engine compartment with tube extending to passenger "A Pillar" as to indicate overheating condition. Aftermarket

19. ENGINE: OEM! STOCK! 3 or 4 cylinder in-line engines only. *Recommended: double overhead cam.* All engine components must be unaltered OEM for year, make and model of car used. Induction must remain OEM as produced – No Mass Air Sensor or Intake modifications or swapping permitted. Aftermarket or custom intakes OK. no ram air. Must use OEM crank, rods, valve sizes, stroke, etc. No aftermarket racing heads. No swapping of heads within OEM product line. Electric Fans OK. No high performance or sport car engines of any kind. No turbo charged, super charged, rotary engines, or engines utilizing variable cam-timing. (VTECH)

20. DEFINITION OF "STOCK" OR "OEM"

In the above stated rules, OEM or STOCK OEM means that a part of dimension must be from a standard production vehicle for Year Make and model used. "OEM" is the abbreviation for original equipment manufacturer. If parts are to be stock, stock OEM or OEM then they cannot be from Performance Catalogues, Mail Order or any special Off-Road or Racing Performance part. No carbon fiber parts anywhere on the car. Absolutely no removal, alteration or covering of casting numbers, manufacturer's name, logos, insignias, etc. from any item on the car. To do so will make that part illegal and it will be treated as such.

21. SKID PLATE CARS – Existing SWS skid plate cars may be permitted to compete with addition of roll cage components (4 point minimum) and safety items per approval of SWS technical team. Please see SWS tech if you are planning to complete with a skid plate car that is questionable per the above rules.

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