

Four-Cylinder Super Stocks

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I. CLASS DESCRIPTION

1. The 4 Cylinder class is based on mass produced, four passenger sub compact cars* with a maximum wheelbase of 101.0” with the exception of a Dodge or Plymouth Neon with a production wheelbase of 102”. Other cars and wheel bases allowed at the discretion of track officials. (* see Trucks pg 4)

2. The cars are essentially stock with modifications limited to two basic areas – engines and tires/wheels/suspension. All other components must be O.E.M. or direct replacement except as specifically stated herein. These components may be reinforced or heavy duty, but no further modifications are allowed.

II. CHASSIS SPECIFICATIONS

1. Weight

- 2050 pounds minimum
- Ballast weight must be lead weight or steel plates mounted to frame by Weight Ballast Clamps. No welding weight to frame allowed. No dumbbells, etc. to be used. All weights being used must be painted white and have car number on it. No tolerance at all on this rule. If it is not up to specifications. A car will not be allowed to race until it complies.
- Displacement and weight must be marked on hood in 3 inch letters.

2. Exhaust

- Any exhaust system may be used. All exhaust systems must exit outside body shell.
- MUFFLERS MANDATORY. Passenger style, California Turbo style should be used. Sound level not to exceed 90db at 50 feet.

3. Suspension

- Suspension rear end substitution allowed. Volkswagen Rabbit rear ends must be reinforced or altered for strength.

- b. All suspension pivot points must retain stock location and stock track width. Any stabilizer bar may be added or removed in front and/or rear. Bushings may be changed.
- c. Struts and shocks MAY NOT be specialty or competition. Struts, shocks, and springs must be O.E.M. replacement. Strut suspension reinforced top and bottom. Springs may be of various tensions. A-Frames may be strengthened.
- d. No floaters. All drive line and suspension parts, also engine, must be the same as floor pan.

4. Brakes

- a. Four wheel hydraulic brakes in good working order. May use proportioning valves.

5. Wheels And Tires

- a. Wheels with 7" maximum width, single or double wall, with 3"-4" maximum backspacing (offset) allowed. Back of rim making contact with hub MUST be flat surface (no concave).
- b. No spacers or spacing allowed between hub and wheel.
- c. Any tire with 8" TREAD WIDTH MAXIMUM. Racing recaps may be used. McCreary Roadstar DOT tires acceptable. Grooving of tires is permitted. NO wheel plugs/covers/inserts.

6. Frame

- a. No tube frames. Reinforcement of stock frame is permitted. Front and rear sub-frames must be tied together on uni-body cars.

7. Floor Pan

- a. Complete floor pan MUST be used. Holes through floor pan must be sealed. Body and floor pan must remain essentially stock.

8. Transmission/Driveline

- a. Must be complete transmission. Gearing may be changed.
- b. Five speeds may be used.
- c. Automatic or standard O.E. style transmission.
- d. A drive shaft loop must be installed within 6"-12" of the front universal joint to prevent drive shaft dropping in case of breakage.

9. Interior

- a. Must be ENTIRELY gutted.
- b. Remove or pad all sharp edges.
- c. ALL pedals must remain in stock location.
- d. A FULL 6 POINT roll cage with headrest constructed of mild steel tubing is MANDATORY. Major tubes MUST be 1 ½ O.D. X .090 wall thickness MINIMUM.
- e. The major tubes are all tubes in the six-point cage and the driver's door bars.
- f. Driver and passenger openings must have three side bars with uprights.
- g. Front firewall must be stock with holes plugged.
- h. A 20 gauge metal firewall must be installed behind the driver, extend to the rear window opening, and completely enclose the rear deck. It MUST be securely bolted, riveted, or welded in place. No cockpit style tinwork.

10. **Steering Column**

a. May not be lengthened, shortened, or relocated. A collapsible steering column is highly recommended.

11. **Ground Clearance**

a. MINIMUM ground clearance is 4" measured to the lowest part of the chassis.

III. BODY SPECIFICATIONS

1. **Appearance**

- a. BODY Overall appearance must be street stock to the eye.
- b. NO chopping, channeling, or sectioning.
- c. Front inner fenders optional.
- d. Full rocker panels must be used.
- e. Wheel well openings may be reasonably radiused for tire clearance.
- f. Bodies must be complete.
- g. Body may not be lowered over floor pan.
- h. Body must be of same manufacturer as original floor pan. Wheel base of new body must be same as original body within 2 inches.
- i. Headlight and tail light openings must be sealed to driver's compartment.
- j. ALL glass, lights, side body moldings and door latches must be removed.

2. **Hood**

- a. A 2" maximum height hood scoop is allowed. Hood scoop must be completely enclosed and be neat in appearance-No ram air.
- b. Hoods must be chained and/or approved hood pins must be used.

3. **Windshield**

- a. Windshield area and grill cavity must be wire screened, NO CHICKEN WIRE.
- b. The windshield must also have one safety bar and two safety straps, one in center and one 5" from center on each side.

4. **Bumpers**

- a. MUST be stock appearing, with ends capped and/or brought in flush

5. **Rub Rail**

- a. Single side rub rails permitted, must NOT extend more than 1" from body.
- b. Driver's side rub rail must be level, passenger side may be tipped town slightly from front to rear to prevent overlap on contact.
- c. ALL rub rails must be rolled in towards body on end.

6. **Deck Lids/Rear Hatches**

- a. Must remain stock.

7. **Numbers and Graphics**

- a. Legible numbers must appear at least 12" high in contrasting color and must be on driver and passenger door and on roof.
- b. Engine displacement must be painted on hood in 2" letters on driver's side.

IV. ENGINE SPECIFICATIONS

1. **General**

- a. Four cylinder, four cycle, single cam, two valves per cylinder (dual cam 16 valve engines allowed), reciprocating and normally aspirated only.
- b. Displacement may be no greater than 2560 ccm.

c. Block and cylinder heads must be stock appearing and available from factory on chassis used, or similar body style.

2. Carburetor

- a. Any single or 2 barrel carburetor including Holley #4412 OEM.
- b. Must run a maximum spacer adapter of 1" including gaskets.
- c. No modification of any kind allowed to the carburetor except the removal of the choke plate and shaft. Box stock only.
- d. The jets may be changed as needed.
- e. Two throttle return springs required.
- f. Conventional round type air cleaners only. NO air induction plastic carburetor inserts or other devices to direct air into the intake.
- g. All carburetors must remain under the hood.
- h. Throttle area not to exceed 43mm (1 11/16").
- i. Fuel injection allowed stock on fuel injected engines.

3. Intake Manifold

- a. NO altering of manifolds. The only exception is where it accepts the carburetor or spacer plate.
- b. Fuel injected manifolds must be used on fuel injected systems. Carburetor manifolds used on carburetor systems only.

4. Battery and Ignition

- a. Any battery operated ignition.
- b. Battery MUST be located in either the engine compartment in a safe manner or in drivers compartment. If located in driver's area, the battery must be completely covered.
- c. Marine style brackets are recommended.

5. Cooling System

- a. Any radiator, fan, or shrouding may be used. Must be mounted within limits of stock location.

6. Lubrication System

- a. May be modified.
- b. Dry sump systems are not allowed.
- c. Oil coolers must be mounted in engine compartment.

7. Fuel and Fuel System

- a. Only fuel rated hose lines may be used for fuel lines.
- b. Fuel line in driver's compartment MUST be steel line covered with rubber hose securely fastened with shutoff valve.
- c. Pump gas only. No alcohol or additives.
- d. Racing Fuel cell is recommended (Jazz plastic type is allowable). Fuel cell/gas tank must be mounted in a safe and professional manner. Must have a protection loop behind fuel cell/gas tank. PVC Valve/check valve on outside of tank located on vent tube. Fuel cell/gas tank must be protected front, bottom, and both sides with minimum 18 gauge steel, minimum 12" from ground (trunk area recommended). Must have firewall between driver's compartment and the trunk area.

V. Trucks

Rules are same as cars except the following

- a. Open bed, rear wheel drive trucks only. No 4 wheel drive conversions or SUV's are going to be allowed.
- b. Chassis: Must use stock frames only, in good condition.
 - c. Must retain factory wheelbase for the truck being used.