

# Retro Pro Coupe

## 1. Dimensional Specifications:

- a. Maximum Overall Chassis Width: 3.125" (measured across any part of the chassis)
- b. Maximum Tire Width: 3.125"
- c. Maximum Rear Tire Width: .800"
- d. Minimum Rear Tire Diameter: .8125" (13/16")
- e. Minimum Front Tire Width: .250" (1/4")
- f. Minimum Front Tire Diameter: .750" (3/4")
- g. Minimum Clearance: .050" measured under rear axle, excluding the drive gear and .015" measured at the lowest, most forward part of the chassis. The bottom of the chassis, excluding wheels and guide, must be flat when fitted on a test block. Both clearances measured with car standing on a flat tech board on its wheels, without guide. Side pans must clear the same measurements (no "hanging pans" allowed).

## 2. Chassis Construction:

- a. Chassis type: Any personally built or commercially available scratch-built chassis conforming to these specifications will be allowed.
- b. Chassis materials: Brass sheet, rod and tube, steel wire, pin tubing and guide tongues are allowed. Other than guide tongues, stamped steel parts and EDM or laser-cut parts of any material are not allowed unless submitted for approval.
- c. Drive type: May be any drive; in-line, angled or sidewinder.
- d. Hinged movements in any direction are allowed. Centerline hinges (flexi hinges) are not allowed. No chassis movement, dynamic or induced, may extend the overall chassis width to more than 3.125". Hinged or fixed side structures cannot "hang" below the line formed by the main rails.
- e. Front axle: A single straight, round 3/32" min diameter, one-piece front axle is required, carrying both front wheels. The axle may be fixed or in a tube. Small flats can be ground only in places for set screw location. NO hinged front wheel movements are allowed (i.e. no "L" arms). Front wheels may rotate independently. No visual obstruction of any kind across either front or rear wheels must be seen when viewing the car from its sides.
- f. Rear axle may be supported by:
  - An axle tube of constant diameter, capturing the rear axle bearings. The axle tube may be notched for motor clearance and must be held by the main rails.
  - The bearings are fixed into a one-piece bracket (formed from brass sheet) that may also incorporate a bolt-on motor bracket, to be soldered to the base of the main rails.
- g. Guide: One guide flag centered on the longitudinal axis of the chassis (i.e. no sideways "free float" or offset) is allowed.

## 3. Motor rules:

- a. Motor type: Pro/Slot #4002B or 4002C, JK Hawk or unopened, unmodified TSR or Falcon VII motor.
- b. Pro/Slot and JK Hawk motors may be blueprinted. Armatures may be re-balanced and commutator may be re-trued. Brushes and springs may be replaced; spring insulation and shunt wires are legal. Stock bushings may be replaced with ball bearings.
- c. Magnets must be original ceramic and may not be shimmed, no neo magnets allowed.
- d. Only the Puppy Dog and Big Dog armatures are allowed for the Pro/Slot motor.
- e. Only the stock Chinese Hawk armature will be allowed for the JK Hawk. No American-wound armature will be allowed at this time.

**4. Body Rules:**

- a. Body style: Bodies must be originals or exact reproductions of pre-1970 Sports/GT bodies by Russkit, MAC, Lancer, Associated, Dynamic, etc. No "flattened" or "aerodynamically improved" bodies allowed (i.e. no molded-in spoilers, wings etc that were not on the original full-size car or original mold).
- b. Front wheel arches must be cut out. Rear wheel arches may be left closed if the original full-size car ran with closed wheel arches. Bodies must be presentably painted and carry at least three racing numbers, one on each side and one on the front. Bodies must be molded with a 010" minimum thickness.

**Approved Body Listing:**

Electric Dreams	1969 Porsche 917SH, Chaparral 2D, Lola T70 MKIIIB, Ford MKIV
Toytech	Dynamic Ferrari P3/P4, Dynamic Porsche 908, Dynamic Gulf-Mirage, Dynamic Porsche 908
TrueScale	Dynamic Porsche 908, Dynamic Ferrari P3/P4, Dynamic McLaren M6, Lancer Gulf-Mirage M1-C, Dynamic Gulf-Mirage M2, Ford MKIV, Dynamic Lola T70 MKIIIB
Outisight	Dynamic McLaren Coupe (OS-457), Dynamic Porsche 908 Coupe (OS-458), Dynamic Mirage M2 Coupe (OS-460), Dynamic Mirage M-1 Coupe (OS-461), Dynamic Sunoco Lola T-70 Coupe (OS-462), Ferrari 330P (OS-424)
Red Fox	Porsche 917, Chaparral Coupe, Lola T-70 Coupe, Ferrari P4 Coupe, Ford GT-40, Ford Mk IV

Other bodies may be submitted to the NorCal Retro membership for approval.

- c. Cockpit: A separate 3-D driver figure painted in at least 2 colors must be fitted. Paper interiors are not allowed. The windscreen and windows must remain clear. No part of the chassis may be seen when viewing the car from the top.
- d. Spoilers and air control: May be add up to 1/2" flat spoiler, including spoilers already molded on the body. See drawing below.

