

# Retro F1/Indy

## 1. Dimensional Specifications:

- a. Maximum Overall Chassis Width: 1.500" (measured across any part of the chassis)
- b. Maximum Tire Width: 3.250"
- 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. Absolutely no form of pillow block construction is 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: Must be in-line drive, angled or sidewinders are not allowed.
- d. Other than a drop arm, all hinged movements must be oriented in only one direction (i.e. either side pan hinges OR a plumber hinge, NOT BOTH, meaning that a "loose" hinge may not provide movement in more than one direction). Centerline hinges (flexi hinges) are not allowed. No chassis movement, dynamic or induced, may extend the overall chassis width to more than 3.250". No chassis component may exhibit flex movement or hinged movement of more than 1/16".
- 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 setscrew 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. 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: Slick 7 Mini-Brute only, no other FK motors allowed. Motors may be zapped, no other alterations or modifications allowed.
- b. Motors must be mounted with screws; soldering is not allowed.
- c. Exclusion clause: Any clear violation of motor-tampering rule will result in permanent exclusion from any NCRRA participation in any form.

#### 4. Body Rules:

- a. Body style: Bodies must be originals or exact reproductions of pre-1970 F1 or Indy bodies by Lancer, 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). No air-control devices may be added to the bodies.
- b. Cockpit: A separate 3-D driver figure, painted in at least 2 colors must be fitted. Paper interiors are not allowed. Molded-in drivers are allowed, but the windscreen and/or windows must remain clear. No part of the chassis may be seen when viewing the car from the top.
- c. Bodies must be presentably painted and carry at least three racing numbers, one on each side, and one on the front. No part of the chassis may be seen when viewing the car from the top. Bodies must be molded with a .010" minimum thickness.

#### Approved Body Listing:

Electric Dreams	Dynamic Eagle-Weslake, Lancer Lotus T56
Lancer	Eagle-Ford Indy (LAN-974), Lotus 49-Ford (LAN-975), Matra 3-liter F1 (LAN-976), Ferrari 3-liter F1 (LAN-980), Cooper-Maserati 3-liter F1 (LAN-981), Lotus T56 Indy
TrueScale	Lancer Ferrari 3-liter F1, Lancer Lotus 49-Ford, Lancer MATRA 3-liter F1, Lancer Cooper-Maserati 3-liter F1
Outisight	Ferrari Type L F-1 (OS-432N), Matra Type L F-1 (OS-433N), Ferrari Dynamic F-1 (OS-434N), Lotus 49 F1 (OS-431), Cooper F1 (OS-430)
Red Fox	Lotus F1 (RF-D317C), Cooper F1 (RF-D318C), Ferrari F-1 (RF-D319C)

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