



## Rules for race 24 Heures Cognin-2019

### 1. Race director:

The main goal for this race is to have pleasure, happiness and a friendly moment between pilots and teams.

- 1.1 The race director is responsible for event progress.
- 1.2 Only Race director and assistants are authorised to touch cars during race and enclosed park
- 1.3 Race director and assistants establish a committee and take all decisions during the event

### 2. Participants

- 2.1. Team members are aged minimum 13 years old. Team consist of minimum 3 to maximum 6 pilots
- 2.2. Participants have to respect other team and pilots. They don't have to affect race and damage the hall. In case of problems they will be immediately excluded.

Every team will appoint a Team Leader. The Team Leader will be responsible for the behavior of his team, the respect for the different tasks: pilot and marshall. Team leader is in charge of communication with race director.

- 2.3. Drinking alcohol, and cooking is forbidden in the hall.

Remind: Smoking is forbidden in public place. Please go out for smoking and use ashtray. Any non-compliance with this rule will generate only one warning and immediate exclusion at the second time.

### 3. Race and planning:

- 3.1 The race is limited to maximum 18 teams
- 3.2 Race take place on 3 Ninco tracks powered between 11 to 12 V. Tracks are put on tables. You could use your Telemetry box Slot IT.
- 3.3 Race take place Saturday 26th October 2019 2:00pm to Sunday 27th October 1:00pm (due to Clock change) in la Salle de la Forgerie à Cognin (Avenue de Corinthe - RD14 – 73160 Cognin).

(GPS : 45.560418, 5.894928 ou 45°33'37.5"N 5°53'41.7"E)The total laps will determine

- 3.4 the classification : In case of ex aequo, the distance of the last lap will decide between the teams. Please leave your cars on the track for judgment.
- 3.5 A “night” period for 8 hours will start around 22h00 to 6h00
- 3.6 The track sequence is 1-3-5-7-9-11-13-15-17-18-16-14-12-10-8-6-4-2
- 3.7 Time segment for driving will be 71 minutes, and 9’30” minutes for changes i
- 3.8 2 trial sessions : first on Friday, October 26th and second on Saturday, October 27th. Driving times will be of 8 minutes by track. Teams have to drive on indicated track. The track sequence is 1-2-3-4-5-6-7-8....17-18 . Teams are responsible for rotation and moving car to next track.
- 3.9 In race, during changing time, Cars will be moved to next track by race director and his assistants. Please don’t touch cars. Non-appliance = **10 laps penalty**
- 3.10 teams have to provide a Marshall during race. Non-appliance =
- 3.10.1.1 **10 laps penalty** 2 minutes after start, pilot have to replace
  - 3.10.1.2 **50 laps penalty** 2 minutes to 10 minutes after start, pilot have to replace
  - 3.10.1.3 **100 laps penalty** over 10 minutes after start, pilot have to replace
- 3.11 Set up and parts change on car have to take place during racing time (not during Off period) on technical table after you demand your car to race director or assistant . **Non-appliance = 10 laps penalty.** Mechanics will leave technical table during “off” period and changing track period.
- 3.12 Pilot have to race a full period. Before start driving , he have to swipe his badge and control his name is on the computer. **First non appliance = free warning, and 10 laps penalty at twice.**
- 3.13 Driving periods : Race director will control for all teams, drivers have quite the same number of driving periods. If there is too big difference, race director may give a lap penalty.
- 3.13.1.1 2 periods difference maximum for team with 5 or 6 pilots
  - 3.13.1.2 3 periods difference maximum for team with 3 or 4 pilots
- 3.14 A pilot has the possibility to play several driving period consecutively.
- 3.15 A soldering iron, some tin, some oil, some gasoline (essence F or C), a toothbrush and a cloth will be given on the technical table. Other tools must be included in the spare parts box (except extractors which can be brought later if need).
- 3.16 A “Beauty contest”will be organised after Technical Check control. Black Arrow livery is not admitted in this contest.

#### 4. Cars in race:

4.1 During all the race, cars must have all the glasses, winglet and rims. In case of problem, you have 5 minutes to repair after the official warning

Non-appliance = **10 laps penalty and Stop cars**

weight control will take place at the end of the race

4.2 start race ; lights will be off ; race director will put its on before night period. During night, 2 Leds minimum have to be continuously light on. Brakes light will be operating immediately.

4.3 Tyres can be changed after demand to race director assistant, please give back old ones

4.4 Motor can be changed during race in case of failure. please give back old one

4.5 No intervention in edge of track is authorized ( except put right place braids and tyres by marshall ) Technical intervention have to take place at the technical table. (Even a simple cleaning of braids).

Non-appliance = **10 Laps penalty**

#### 5. Controllers:

5.1 all controllers have to be electrically checked before to be connected to the track. A sticker will be added after control. All pilot driving with controller without the sticker will be penalty = 100 laps

5.2 Banana connexion is mandatory, we advise DS racing connector Réf : DS-0010.

#### 6. Technical control:

6.1 Technical control will be done by Race director assistant.

6.2 The car will be presented open without motor and back tyre

6.3 A checklist will be completed during control. In case of impossibility, race director and assistant will decide to allow or not possibility to race.

6.4 Teams have 15 minutes to pass the technical control. Overtime will generate 10 laps penalty every 5 minutes. (Friday evening , for volunteers, the duration of technical control is extended to 45minutes)

6.5 During technical control, race director assistant will provide 2 tyres and 1 Motor without pinion

6.6 A see through box will be given to stock spare parts and tools for race.

6.7 After control and agreement, the car is placed in closed parc. The spare part box is stocked on the technical table.

6.8 After this, pilots don't have to touch cars Non-appliance : **10 laps penalty.**

All modification in the spare parts box (more or less) is under race director assistant control

6.9 At the end of your technical control, you can test your car on a test bench before going to closed parc

7. **Team pits:**

7.1 Each team will have a table and 2 chairs

7.2 SRC73 is not responsible of robberies and damages during weekend

7.3 For your security, doors and windows must be closed. Please, respect instructions to park your car

8. **Badges and documents:**

8.1 SRC73 is the only one responsible of the list of team accepted for the race. Please don't trust to other person or group who give you list or information.

8.2 Fee is 130€ including a light kit Z-machine. Registration will be confirmed by mail after we received your fee. We 'll send you by post your light kit

8.3 SRC73 will provide rules and badges for the team.

8.4 You have to give back badges to the technical table at the end of race.

8.5 badges which are not give back will cost you 5€

9. **Drinking and snacking:**

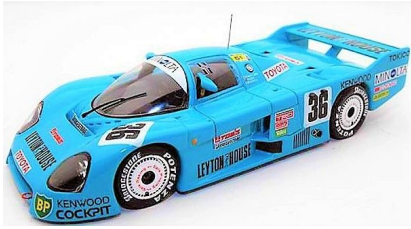
9.1 You have to pay when you order your drink and food. (with euros or CB)

## 10. Technical rules for cars

- Porsche 956 (C / LH / KH), Porsche 962 (C / LH / KH / C-85 / IMSA)
- Mercedes Sauber C9
- Lancia LC2-84, Lancia LC2-85
- Jaguar XJR6/9, Jaguar XJR12
- Mazda 787B
- Toyota 88C + 86C
- Nissan R89

### 10.1 cars authorized

 <p>Porsche 956C LH (CA02)</p>	 <p>Porsche 962 IMSA (CA25)</p>	 <p>Lancia LC2/84 (CA08)</p>
 <p>Porsche 956C KH (CA09)</p>	 <p>Toyota 88C (CA19)</p>	 <p>Lancia LC2/85 (CA21)</p>
 <p>Porsche 962C LH / 962C-85 (CA03-CA34)</p>	 <p>Mercedes Sauber C9 (CA06)</p>	 <p>Jaguar XJR6/9 (CA07)</p>
 <p>Porsche 962C KH (CA17)</p>	 <p>Mazda 787B (CA15)</p>	 <p>Jaguar XJR12 (CA13)</p>



Toyota 86C (CA41)



Nissan R89C (CA28)

Body cars come from white body car painted, or serial livery from Slot it

Race numbers on your car must be hidden by stickers before technical controls.  
"home made" body are not allowed

### 10.2 Dimensions

The width from tire to tire for the back and the front has to be of : **64.8 mm maximum.**  
But tyres or rims don't have to exceed of the body in the passage of wheels.  
Sanding frame is authorized if the game is lower in 1mm between frame and body.

### 10.3 Body

Minimum weight with light kit : **18 Gr minimum.**

Body must be full painted in case of a White kit body  
**Phosphorescent paintings are not allowed**

Body must be full mounted with accessories and not modified , with mirrors, wipers ... at the technical control.(except security hook )

During race, only lack of mirrors, wiper are not penalty

Only one body is allowed for the race. If the body is damaged over 1 cm, you have to repair.  
Light glasses don't have to be repaired.

**Glasses and light glasses have to be see through without color**

Body is fixed to the frame with all the screws.

**The distortions and the sanding of body are FORBIDDEN.**

\*Weight control for body will take place after race.

Non-appliance = **50 laps penalty per 0.5 grs less**

Except

**Nissan R89 C + Jaguar XJR6 / 9 LM & XJR12**

body parts to hide rear wheels are forbidden. You can sand inside body the fixing points for this parts

**Lancia LC2 / 84**

you can reduce high for support rear wing

**Jaguar XJR12**

don't put in front the lightcut part

**Mazda 787 B**

you can take out lateral exhaust placed near to suspension screw

you can use a chassis with 4 screws for motor mount.

**Mercedes C9**

don't put protection parts around exhaust



#### 10.4 Light kits :

Leds must have to be put on front and back light



The light kit (réf. (réf. ZM165MS32LRS) is provided by SRC73. Only one light kit is provided with your fee. Modifications are not allowed on light kit.

Light kit = 2 LED for front light, and 2 red Light for back lights.

Switch on and off is done with magnet

During technical control, we check the sticker put on the body for the magnetic switch.



A ferrite will be put between light kit and motor.



Light kits are pre mounted and tested by Zmachine , You'll have to drill your body to put LEDS on car's light.

To the start for the race, lights will be off ; race director will put its on before night period. During night, 2 Leds minimum have to be continuously light on (LED flashing is considering as ok) Brakes light will be operating to the start

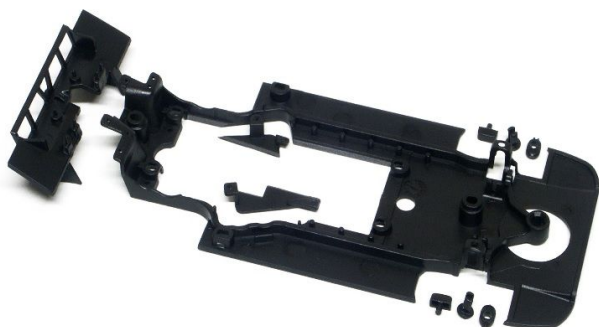
If the light kit is not running well, you don't have to solve problem during race. But you can't complain about slow pickup, or contact with other cars

If other cars are penalized with your car without lights, Race director could give back some laps to correct this issue.

#### Châssis :

The only one chassis authorized is EVO 6 :

Chassis must be flat between wheel front and rear axles



#### Precision for Lancia LC2/85 :

Front part of chassis in front of front axle must be original and not modified

**\*team name is written on chassis**



**Motor mounts**

only permitted

- grey (CH70) offset 0.5



**CH70**  
**Group C Slot.it models (2012 - 20xx)**      **OFFSET 0.5mm**

**Suspensions:**

forbidden

**Bushings :**

rear : Free (information : original ones are(CH56) ou (CH56b) bushings could be glued

front : Forbidden



**CH56b**  
Bronze spherical bushings

**Crown :**

SLOT IT plastic crown AL or BZ:  
Gi25xx (orange) - Gi26xx (blue)  
Gi27xx (Black) - Gi28xx (yellow)



**Gi25-bz | Gi25-al**  
25 teeth  
Bronze/  
Alumin.+Teflon



**Gi26-bz | Gi26-al**  
26 teeth  
Bronze/  
Alumin.+Teflon



**Gi27-bz | Gi27-al**  
27 teeth  
Bronze/  
Alumin.+Teflon



**Gi28-bz | Gi28-al**  
28 teeth  
Bronze/  
Alumin.+Teflon

**Pinion**

Only pinion Z= 9 /  $\varnothing$  5,5 mm  
réf. PI09 is authorized



**Axle and stoppers**

free from Slot parts ( $\varnothing$  2,38 mm)

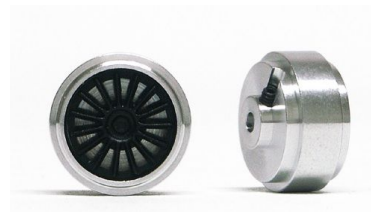


**Front and rear wheels**

Must be from original model

Front  $\varnothing$  15,8 mm x 8,2 mm "PLASTIC"  
réf. PA17-pl or WH1210-pl

Rear  $\varnothing$  16,5 mm x 8,2 mm "ALU"  
réf. PA43-Als



Tyres for the race : Slot.it 18x10 shore 22

Wheel insert are mandatory all along race, it can be glued.

**Braids:**

Braids are free. MB Slot blades are not allowed

**Pick up**

Slot it pick up .  
réf. CH26, réf. CH10, réf. CH66, réf. CH85



guide can't be modified except thickness

**Tyres:**

Front tyres are free (it have to cover all wheel)  
Front tyres must touch marble during technical control. (diameter mini = 16.5mm at technical control)  
Front tyres can be glued  
Treatment with liquid is forbidden

**Rear Tyres** are provided by organisation for race only.

**Motor:**

provided by organisation for race only.  
Slot.it V12/4 - réf. MX16 23.000 rpm 170g cm  
motor will be given during technical control  
Remind : pinion Slot-it 9 Z is not provided by oraganisation



Motor can be fixed to motor mount with screw or adhesive tape. Gluing is forbidden.

**Cables :**

Cable and eyelets are free. Glue and soldering to eyelets are forbidden Cables can be fixed to chassis with glue or stickers.

**Screw:**

free

**Spacers:**

you can use spacers for front and rear axles, and for guide

**Magnets :**

forbidden

**Ballast :**

forbidden (If body is not at the right weight, race director assistant will put ballast on body)

**ALL IS NOT REGISTERED  
IN THIS RULES  
IS FORBIDDEN**

## 11. Planning :

### ➤ Friday 25 octobre 2019

opening hall : 14:00  
welcome teams and distribution of badges : 14:00 – 20:00  
technical control for controllers : 14:00 – 19:30

**Free practice 1 : 14:30 – 20:30 (6H00 of test with 8 minutes period)**  
Technical control for cars : **17:00 – 20:30 (45 min maximum)**

*Drinking (14h00 -21h00) and diner (only with pre-order)*  
Closing hall : 22:00

### ➤ Saturday 26 octobre 2019

Opening hall : 08:00  
technical control for controllers : 08:30 – 11:00  
**free practice 2 : 08:00 – 10:30 (2H30 of test with 8 minutes period)** *You can drive with a second car Slot it - Groupe C*  
**08:30 – 11:00.** Teams will be summoned from 08:30 to the technical inspection (15 minutes maximum) . The running order will be defined according to the arrival time of the team , and teams will be informed on Friday an approximate hour of call to the control.

we'll take Picture of your cars after technical control for the beauty contest.

**5e Grand Prix des enfants : 10:30 - 12:00**  
prizes ceremony 12:00 - 12:30

Briefing for pilots : 12:30 – 12:40  
Pilots and Marshall take place : 12:40 - 12:45  
**Qualification : 12:45 – 13:25**  
Choose your track : 13:30 – 13:40  
Placement cars on grid : 13:40  
Hymns and protocol of departure : 13:45 - 14h00

**Start race “24 Heures” : 14:00**  
Night period : 22:00 (with lights on car) for 8 hours

*Drinking / Snacking (8h00 -22h00) and diner (only with pre-order)*

### ➤ Sunday 27 octobre 2019

*Drinking / Snacking (6h00 - 14h00)*  
Clock change 03 :00 / end of night 5:00

**Finish race “24 Heures” : 13:00**  
**Prizes ceremony : 13:30**

**Closing hall : 16:00**