APPENDIX "J"

to the International Sporting Code
APPENDIX J

TO THE INTERNATIONAL SPORTING CODE

Classification, Definition and Specifications of cars

TITLE I

CLASSIFICATION OF CARS

Art. 251. — Categories and groups: cars competing in events shall be distributed into the following categories and groups:

Category A: recognized production cars (numbers between brackets are those of the required minimum production in 12 consecutive months).
- Group 1: series-production touring cars (5,000).
- Group 2: touring cars (1,000).
- Group 3: grand touring cars (500).
- Group 4: sportscars (50).

Category B: special cars.
- Group 5: special touring cars.
- Group 6: prototype-sportscars.

Category C: racing cars.
- Group 7: two-seater racers.
- Group 8: formula racing cars.
- Group 9: formula libre racing cars.

TITLE II

DEFINITIONS AND GENERAL PRESCRIPTIONS CONCERNING CARS OF CATEGORIES A AND B

Art. 252. — Definitions a) Recognized production cars: cars of which the series-production of a certain number of identical (see definition of this word hereafter) cars, has been completed
within a certain period of time, and which are meant for the normal sale (see below) to the individual purchaser. This period of time is of 12 consecutive months. The checking of the existing minimum production enables the A.C.N. to apply to the F.I.A. for recognition (see this word below).

b) Special cars: cars which have nothing or which have no more to do with a series-production vehicle, either that only one of the type has been built, or that the number of units which has been built is inferior to what is required for the group for which the minimum number of units annually produced is the smallest, or that although they originate from a series-production car, they have been modified or equipped with new accessories to the point that their series-production nature has been lost.

c) Racing cars: cars manufactured solely for speed races on a circuit or a closed course. These cars are generally defined by the international racing formulae the specifications of which are fixed by the F.I.A. for a certain period of time. Racing cars not being defined by any international formula are said to be « formule libre » and their specifications must in that case be set out in the supplementary regulations of the event.

d) Identical: by « identical » cars are meant cars belonging to one and the same fabrication series and which have the same coachwork (outside and inside), same mechanical components and same chassis (even though this chassis may be amalgamated with the coachwork in case of a unitary construction).

« Mechanical components » include all parts for the propulsion, suspension, steering and braking system and all accessories whether moving or not which are necessary for their normal functioning (such as for instance, electric accessories).

By chassis is meant the structure of the car which holds mechanical components and coachwork together, and includes any structural part which is located below the horizontal plane passing through the center of the wheel hubs.

e) Minimum production: this minimum production, different for each group of cars, applies to cars which are identical, the manufacturing of which has been fully completed within a period of 12 consecutive months.

f) Normal sale: means the distribution of cars to individual purchasers through the normal commercial channels of the manufacturer.

g) Recognition: is the official certification made by the F.I.A. that a minimum number of cars of a specific model has been made on series-production terms to justify classification in group 1, 2, 3 or 4 of these regulations. Application for recognition shall be submitted to the F.I.A. by the A.C.N. of the country in which the vehicle is manufactured and shall entail the drawing up of a recognition form (see below). It must be established in accordance with the special regulations, called « Regulations for Recognition », laid down by the F.I.A., and a manufacturer wishing to obtain the recognition of his model(s) must undertake to abide by their prescriptions. Recognition will only be granted to car-models which were still in production on 1st January 1957 or the production of which was started after that date. Recognition of a series-produced car will become void 4 years after the date on which the series-production of the said model has been stopped.

Recognition of a model may only be valid for one group. The transferring of a previously recognized model from one group to another will therefore nullify the effect of the said previous recognition.

h) Recognition forms: all cars recognized by the F.I.A. shall be the subject of a descriptive form called Recognition form on which shall be entered all data enabling identification of the said model.

To this effect only the standard recognition forms and standard additional form for « normal evolution of the type » and « variant » approved by the F.I.A. shall be used by all A.C.N.s.

The production of the forms at scrutineering and/or at the start may be required by the promoters who will be entitled to refuse the participation of the entrant in the event in case of non-production.

In case of any doubt remaining after the checking of a model of car against its recognition form, the scrutineers would have to refer either to the maintenance booklet published for the use of the make's distributors or to the general catalogue in which are listed all spare parts.

It will rest with the competitor to obtain the recognition form and, if need be, the additional forms concerning his car, from the A.C.N. of the manufacturing country of the vehicle.

i) Cylinder-capacity classes: the cars shall be distributed into
the following 13 classes, according to their cylinder-capacity:

1. Cylinder capacity inferior or equal to 500 cc.
2. Cylinder capacity exceeding 500 cc. and inferior or equal to 600 cc.
3. Cylinder capacity exceeding 600 cc. and inferior or equal to 700 cc.
4. Cylinder capacity exceeding 700 cc. and inferior or equal to 850 cc.
5. Cylinder capacity exceeding 850 cc. and inferior or equal to 1,000 cc.
6. Cylinder capacity exceeding 1,000 cc. and inferior or equal to 1,150 cc.
7. Cylinder capacity exceeding 1,150 cc. and inferior or equal to 1,300 cc.
8. Cylinder capacity exceeding 1,300 cc. and inferior or equal to 1,600 cc.
9. Cylinder capacity exceeding 1,600 cc. and inferior or equal to 2,000 cc.
10. Cylinder capacity exceeding 2,000 cc. and inferior or equal to 2,500 cc.
11. Cylinder capacity exceeding 2,500 cc. and inferior or equal to 3,000 cc.
12. Cylinder capacity exceeding 3,000 cc. and inferior or equal to 5,000 cc.
13. Cylinder capacity exceeding 5,000 cc.

Regulations intended for specific events may provide one or several sub-divisions of class 13. There shall be no sub-division of the other classes.

The above mentioned classification will apply only to non-supercharged engines.

Unless otherwise specified in special provisions set up by the F.I.A. for a certain category of events, the organizers are not bound to include all the above mentioned classes in the supplementary regulations, and, furthermore they are free to group two or more consecutive classes, according to the particular circumstances of their events.

j) Supercharging: if the engine of a car includes a separate device used for supercharging it, the nominal cylinder-capacity will be multiplied by 1.4 and the car will pass into the class corresponding to the nominal volume thus obtained. The new cylinder capacity of the car shall always be considered as the real one. This shall particularly be the case for assigning the car to its cylinder-capacity class, and the car will be treated in all circumstances as if its cylinder capacity thus increased was its real capacity. Especially in regard to its classification per cylinder-capacity class, its inside dimensions, its minimum number of seats, etc.

A dynamic air inlet for ducting the air from the atmosphere into the engine intake will not be considered as a supercharging device.

k) Coachwork: by coachwork is meant:
- externally: all parts of the car licked by the air-stream and situated above a plane passing through the centre of the wheel hubs.
- internally: all visible parts of the passenger compartment.

Coachworks are differentiated as follows:
1) completely closed coachworks,
2) completely open coachworks,
3) convertible coachworks: with a hood in either supple (drop-head) or rigid (hard-top) material.

Coachworks of one same minimum series shall be identical with the only exception of a «sun roof».

However, if a model has its coachwork equipped with a specific number of doors and has been recognized on the basis of a given minimum series, similar recognition may be granted to another coachwork with a different number of doors when its minimum production reaches 50% of the figure necessary for recognition of the basic series, providing that both models have the following common characteristics:
1) a coachwork of similar shape, i.e. of which the general appearance is basically the same and which has not been modified beyond what is necessary to change from a four door version to a two door version (or vice-versa);
2) exactly identical mechanical parts;
3) the same wheelbase, track and number of seats;
4) at least the same weight;
5) an F.I.A. decision to recognize this variant coachwork and to draw up an additional «variant» recognition form.

As far as convertible cars are concerned, these must comply in all respects with the specifications applying to closed cars if they run an event under this form, or with the specifications...
concerning open cars if they run with the hood down or the hardtop removed.

1) Minimum weight: is the real minimum weight of the empty car (without persons or luggage aboard) fully equipped and ready for delivery to the purchaser. It shall consequently include a spare-wheel equipped with a tyre similar to those mounted on at least 2 of the 4 wheels, and none of the accessories normally mounted on the least expensive model of the series concerned being removed, except for the normally supplied repairkit (jack, tool-kit). All liquid tanks (of lubrication, cooling system, braking, heating system, if need be), except for the fuel tank, must be full.

The minimum weight of the car mentioned on the recognition form shall be strictly respected. Any lightening of the car by removal or replacement of parts, aiming at reducing its weight, is prohibited.

Art. 253. — Prescriptions common to all cars of categories A and B.

a) Chassis, ground clearance, steering lock: the car, supplied with enough fuel for starting the event, its oil and water tanks full, must be able to drive over — under the power of its engine and with its driver at the steering-wheel — a mass of 80 x 80 cm and 10 cm high.

The maximum steering radius shall be 6.75 m which means that the car must be able to make a complete turn in both directions without the wheels going beyond two parallel lines drawn on the ground 13.50 m apart.

b) Coachwork: minimum inside dimensions and minimum number of seats: cars shall be equipped with a minimum of two seats or a minimum of four seats according to the group in which they seek recognition and, within a same group, according to their engine cylinder-capacity.

For each group specified in these regulations, the minimum number of seats is listed hereafter and the minimum inside dimensions for both cases are indicated in the following paragraphs.

1st case (see diagram 1): car equipped with 4 (or more) seats.

The height at the front (B) is measured between the lowest surface of the front seat, compressed by a standard mass of 60 kgs (see diagram 2) and the ceiling (the padding if any, may be compressed). Should the backrest of the front seat(s) be inclined backwards, the protected height must also be measured at the same angle as the inclination of the backrest.

— If the front seats are separate, the measurement is made in the middle of the two seats. In case of adjustable front seats, the seats will be placed in medium position.

— If there is a common front seat, the measurement is made at 25 cm from the center line of the car.

The height at the back (D) is measured between the cushion of the rear seat, compressed by the standard mass, and the ceiling (the padding if any, may be compressed) at 25 cm from the center line of the car. Should the backrest of the rear seat be inclined backwards, the protected height must also be measured at the same angle as the inclination of the backrest.

The width over the front seats (C) is measured along the vertical plane passing through the center of the standard mass, 30 cm above the compressed seat, and between the upper strip of each front door.

The width over the back seats (E) is measured along the vertical plane passing through the center of the standard mass, 30 cm above the compressed seat and between the upper strip of each back door, or at the same height as for the front seats when there are no rear-doors.

The minimum dimensions (in centimetres) are the following:

<table>
<thead>
<tr>
<th>Cylinder-capacity</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 700 cc.</td>
<td>85</td>
<td>100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>From 700 to 2.000 cc.</td>
<td>85</td>
<td>110</td>
<td>85</td>
<td>110</td>
</tr>
<tr>
<td>Over 2.000 cc.</td>
<td>90</td>
<td>120</td>
<td>85</td>
<td>120</td>
</tr>
</tbody>
</table>

Moreover, in order to be considered as a four-seater, a model must fulfill certain conditions regarding its rear-seating capacity. These conditions are the following (see diagram 3):

1. — l must be at least 90 % of L;
   m must be at least 85 % of M;
   n must be at least 80 % of N;
   p must be at least 80 % of k + m.

2. — k must measure at least 15 cm and the minimum
measures for the footspace of the rear passengers must be: 32 cm long, 5 cm high and (for each one of the two passengers) 25 cm wide.

3. - the space available for the rear passengers must meet the following condition: \( k + I + m = 95 \) cm minimum.

4. - cars in which the back of the rear seat (s) is inclined forward beyond the vertical cannot be considered as four-seaters.

The measuring of the above dimensions must be carried out under the following conditions:

- the front seat, if adjustable, must be placed in its normal driving position, i.e.: \( K + L + M \) must measure at least 126 cm.
- if the front seats have reclining backs-rests, these should be set at an inclination of 15° backwards.
- \( K \) is measured horizontally from the brake pedal (at rest) to the foremost point of the front seat; \( k \) is measured horizontally at a height equal to \( I \) from the back of the front seat to the foremost point of the rear seat.

\( L \) and \( I \) are measured vertically from the highest point of the cushion of the seat to the floor of the car. At the front \( L \) must be measured at the usual resting-place of the driver's heels.

\( M \) and \( m \) are measured horizontally from the foremost point of the seat to the backrest to be measured at a height of \( L \) (1).

Two specific cases must be distinguished:

1) bucket-seats: the measuring must be taken on the center line of each seat.

2) common seat: measuring must be carried out at 25 cm from the longitudinal axis of the vehicle.

However, for the rear seat(s) measuring must be made in the same vertical plane as for the front seats.

\( N \) (and \( n \)) are measured vertically from the highest point of the backrest to the highest point of the cushion of the seat.

\( p \) is measured (in the same vertical plane as \( m \)) horizontally from the rearmost point of the backrest of the front seat to the backrest of the rear seat.

For the above-mentioned measurements, seats must not be occupied.

2nd case (see diagram 4 and 5): cars with a minimum of 2 seats.

The two seats must be distributed equally on either side of the longitudinal centerline of the car and at the same level, regardless of their normal play for adjusting them to the size of the driver. The location provided for placing or housing the seats must have a minimum width of 40 cm maintained all along the depth of the seat.

The «protected height» shall be at least 80 cm measured from the cushion of the seat compressed by the standard mass (see diagram 2) to the ceiling (any existing padding being compressed) in cars with closed coach-work and 80 cm from the surface of the seat compressed by the standard mass (see diagram 2) to the upper edge of the windscreen (measured vertically through the centre of the standard mass) in case of open cars.

The minimum interior width over the front seats (see measurement C) shall be of 100 cm in cars with a cylinder-capacity inferior or equal to 700 cc, 110 cm in cars with a cylinder-capacity from 700 cc to 2,000 cc and 120 cm in cars with a cylinder-capacity exceeding 2,000 cc. The minimum width of foot-space (for each person) must be at least 25 cm measured perpendicularly to the centerline of the car, plumb with the pedals.
Width where the «protected height» must be maintained.
c) Windshield - Windshield wiper: a windshield made of safety glass is compulsory. In all series-production cars it shall be made of the material originally provided by the manufacturer. It shall be equipped with at least one automatic wiper sweeping a sufficient area to enable the driver to distinctly see the road from his seat.

The windshield shall comply with the following requirements:
1) be placed symmetrically with regard to the centerline of the car;
2) have a minimum height of 25 cm, maintained between two points symmetrically placed with regard to the centerline of the car and of which one is determined by the vertical line passing through the center of the steering-wheel. There must furthermore be at least 45 cm between the two said points.
3) have a minimum width of 90 cm; chord measured at half its vertical height.

Shall be considered as being the windshield, only the glass area through which one has an entirely free vision towards the front, without being limited by any outside opaque projection apart from the bulge of the mudguards which cover the front wheels.

d) Mudguards: shall be of permanent nature and firmly fixed. They shall project over the wheels and provide efficient covering of at least one third of their circumference, and at least the width of the tyre. In those cars where mudguards are entirely or partly overhung by the body structure, the combination mudguards-body or the body alone shall nevertheless meet the above protection requirements.

Mudguards must be solid with the body, there being no gap between them.

e) Hood: open or convertible cars shall be equipped with a hood fitting exactly, and without any intermediary device, to the windshield, the door windows or side panels, and the rear of the coachwork.

The hood may not interfere with the opening of the doors. It shall include a rear window, the minimum dimensions of which are specified in the present article (see below «rear window»).

It must be capable of being used during all or part of the event. The supplementary regulations may specify in which state convertible body cars must run (as closed cars or open cars, otherwise it shall be at the discretion of the entrant) but the hood if not fitted on the car must always remain aboard the car during the whole of the event. The hood may be replaced by a hard top subject to the same conditions as for a hood.

f) Doors: all vehicles shall be fitted with at least one rigid door on each side, with closing devices and hinges which may not be located on the rear-door post, nor on the door-sill. The dimensions of the lower door panel (the part which is normally opaque) must be such as to allow a rectangle of at least 50 cm wide and 30 cm high being inserted in it. Cars with sliding-doors will not be allowed unless they include a safety system enabling a quick and easy evacuation of the car's occupants in case of an accident.

Cars with closed or convertible coachwork shall have doors equipped with movable windows of the material provided by the manufacturer for the considered model, liable to be opened over at least one third of their surface in order to provide for ventilation, each window having a minimum width of 40 cm and a minimum height of 25 cm.

When opened, the doors must give free access to the seats. They must be made in such a way that they never restrict the lateral view of the driver.

g) Rear view: this shall be provided by an inside mirror commanding a rear window measuring at least 10 cm vertically maintained along a width of at least 50 cm. However, if the straight line connecting the upper and lower edges of the rear window opening makes an angle inferior to 20° with the horizontal, when the car complies with the same specifications as those required for checking the ground-clearance (see art. 253), the rear view must be efficiently obtained by other means (two outside mirrors or any other system of equivalent efficiency).

h) Luggage trunk: a covered space shall be provided which is an integral part of the coachwork but outside the space occupied by the passenger seats.

This space shall be such as to enable to carry without special difficulty a number of suitcases, sheltered from rain or dirt
which varies according to the cylinder-capacity of the engine equipping the car (see below), of the following minimum dimensions: 60 cm X 40 cm X 20 cm.

Cylinder-capacity inferior or equal to 2,000 cc: 1 suit-case,
Cylinder-capacity superior to 2,000 cc: 2 suit-cases.

However, in cars having inside dimensions which are inferior to the minima laid down in article 253 b to allow classification as a four-seater, but which contain a compartment behind the front seats liable to receive passengers, this compartment may be taken into account as luggage space whether or not it has been equipped for this purpose but without modifying any of the original parts.

i) Starting: cars must be equipped with a device and its source of power for automatically starting the engine and able to be actuated by the driver sitting at the wheel.

j) Fuel tanks: the total capacity of the fuel tanks (main and additional) must not exceed the following limits:

<table>
<thead>
<tr>
<th>Cylinder-Capacity</th>
<th>Fuel Tank Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 700 cc</td>
<td>60 l.</td>
</tr>
<tr>
<td>700 cc to 1,000 cc</td>
<td>80 l.</td>
</tr>
<tr>
<td>1,000 cc to 1,300 cc</td>
<td>100 l.</td>
</tr>
<tr>
<td>1,300 cc to 1,600 cc</td>
<td>110 l.</td>
</tr>
<tr>
<td>1,600 cc to 2,000 cc</td>
<td>120 l.</td>
</tr>
<tr>
<td>2,000 cc to 2,500 cc</td>
<td>130 l.</td>
</tr>
<tr>
<td>2,500 cc to 3,000 cc</td>
<td>140 l.</td>
</tr>
<tr>
<td>3,000 cc to 5,000 cc</td>
<td>160 l.</td>
</tr>
<tr>
<td>Greater than 5,000 cc</td>
<td>180 l.</td>
</tr>
</tbody>
</table>

Will be considered as a fuel tank any container holding fuel which can flow out by any method either to the main-tank or directly to the engine.

The filling-port(s) (and vents) of each tank must always be outside the passenger-compartment and be entirely leak-proof.

k) Spare-wheels: all cars shall be equipped with at least one spare wheel with its tyre occupying the position provided for by the manufacturer which may not encroach upon the space provided for luggage.

The spare wheel must be equipped with a tyre of the same dimensions as those fitted on at least two wheels of the car.

l) Silencer (muffler) and exhaust system: even when the specific provisions for a group allow replacement of the original muffler, cars competing in an open road event shall always be equipped with an exhaust muffler complying with the road regulations of the country(ies) through which the event is run.

For events run exclusively on closed circuits, the supplementary regulations may authorize modification, replacement or removal of the exhaust muffler.

The outlet pipes of the muffler shall be directed either rearwards or sideways. If the outlet pipes are pointing rearwards, their orifices shall be placed at a height neither superior to 45 cm nor below 10 cm; they shall not protrude by more than 15 cm beyond the overall length of the car. If the exhaust pipes are directed sideways, their orifices must be located aft of a vertical line passing through the wheelbase center and may not project in any way beyond side of the coachwork. Adequate protection shall be provided in order to prevent heated pipes from causing burns.

m) Safety devices: for cars competing in events which are speed races exclusively the following safety devices are foreseen:

1st) for cars with an open coachwork: compulsory fitting of a roll bar being 3 cm higher than the driver's helmet and being wider than the driver's shoulders when seated at his wheel;

2nd) for cars with a closed coachwork: optional fitting in of a roll cage improving the rigidity of the body and meant to prevent it from crushing in the event of a violent shock or a somersault. This roll-cage must be mounted in such a way that:
   - it shall in no way interfere with access to the seats and normally occupying them;
   - it shall not encroach on the volume reserved for the driver or any of the passengers;
   - the exact weight of the device shall be subject to a statement from the competitor, to be appended to the entry form. This weight must be added to that indicated for the vehicle on the recognition form.

The fitting of the above mentioned safety devices, which is mandatory for speed events (open cars), is authorized and even recommended for regularity trials.
n) Oil catch tank: when cars are running in events which are only speed races in closed circuits, they must be equipped in such a way as to prevent oil from spilling on the track. In cars of a cylinder-capacity inferior or equal to 2,000 cc, the oil catching device shall have a minimum capacity of 2 litres and of 3 litres for cars with a cylinder-capacity exceeding 2,000 cc. This provision, mandatory for circuit speed events, will be optional for the other events (hill-climbs, rallies, even those including classification tests run on closed tracks) unless required by the supplementary regulations.

o) Limits of authorized modifications: certain modifications to the original parts, certain additions and/or removal of accessories normally mounted by the manufacturer of the model concerned, are explicitly authorized by the present regulations. The limits of these modifications are set out for each of the 6 groups of categories A and B. All those not explicitly mentioned as permissible for the group in which the car claims classification and which affect, even secondarily, the mechanical efficiency of the engine, the steering, the transmission, the road-holding and/or the braking, will imply the exclusion of the car from its group.

If these modifications or additions have been the subject of a previous statement by the entrant, the car may be allowed to compete in the event in one of the other groups provided in the supplementary regulations and with the prescriptions of which it complies. Should there be however an obvious case of willful misrepresentation, the entrant should not be authorized to start or should be stopped if he had already started, with request to the A.C.N. concerned to pronounce his suspension for at least 12 months.

p) Fuel: fuel shall be of commercial type generally distributed at road service stations of the country or countries in which the event is being run. If in one of the countries the standards of the best commercial fuel are inferior to the fuel having the lowest octane number in one of the three following countries: France, Great-Britain, Italy, a special waiver may be granted to the promoters with the approval of the C.S.I.

Upper-cylinder or two-stroke engine lubricants are authorized on condition there is no increase of the fuel octane number.

Art. 254. — Rule for changing from one group to another and authorized amalgamation of groups:

Cars originally belonging to a certain group but which have been subject to duly declared modifications and/or additions that exceed the limits specified for the group concerned, may pass into a higher group, provided for in the supplementary regulations, with the prescription of which it complies and under the following conditions:

<table>
<thead>
<tr>
<th>Group</th>
<th>Passes Into</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group 1</td>
<td>Group 2</td>
</tr>
<tr>
<td>Group 2 (or 1 + 2)</td>
<td>Group 5</td>
</tr>
<tr>
<td>Group 3</td>
<td>Group 4</td>
</tr>
<tr>
<td>Group 4 (or 3 + 4)</td>
<td>Group 6</td>
</tr>
<tr>
<td>Group 6 (or 3 + 4 + 6)</td>
<td>Group 7</td>
</tr>
</tbody>
</table>

**TITLE III**

**SERIES PRODUCTION TOURING CARS**

Art. 255. — Definition: touring cars built on large series production terms. These cars shall compete in an event without having undergone any preparation likely to improve their performances or their conditions of use. The only working authorized is normal maintenance or the replacement parts damaged through wear or accident and the modifications and additions explicitly authorized hereafter under article 257. Except for what is explicitly authorized any part damaged through wear or accident may only be replaced by an original part which must be exactly the same as the one for which it is substituted.

Art. 256. — Minimum production and number of seats: series-production touring cars shall have been manufactured in a quantity of at least 5,000 identical units and offer at least 4 seats, except if their engine cylinder-capacity is inferior or equal to 700 cc, in which case the manufacturer may deliver them as two-seaters.

Art. 257. — Mountings and modifications authorized:

a) Lighting devices: all lighting and signalling devices must comply with legal requirements of the country of the event,
cars from abroad must comply in this respect with the Convention on international road traffic.

Lighting devices which are part of the standard equipment must remain those foreseen by the manufacturer and must comply as far as is concerned their functioning with what the manufacturer has foreseen for the considered model. Thus, if changing from a road beam to a passing beam is produced by merely deflecting the beam inside one same reflector, this system may not be altered.

Freedom is granted with regard to the frontal glass, the reflector and the bulbs.

It is permitted to add at the front only two lighting devices in addition to those normally provided by the manufacturer and mentioned on the recognition form.

The mounting of reverse-lights is authorized provided police regulations are respected but not the fitting of manoeuvrable search-lights on the roof or elsewhere.

Waivers may be granted to these specifications on condition that they be explicitly provided for in the supplementary regulations of the event.

The mounting of additional headlights shall not entail any modification of the coachwork.

The fitting of reverse-light is authorized, if necessary by embedding into the coachwork, but provided it will only switch on when engaging the reverse-gear.

b) **Fuel and oil tanks**: must be those normally provided by the manufacturer for the model concerned, the capacities of which are specified on the recognition form. If, for the same model, tanks of different capacities are normally provided, only those mounted on the required number of cars necessary for the recognition will be authorized.

The location and type of filling port for the fuel tank(s) may not be changed.

The use of a fuel tank with a larger capacity may be authorized by the A.C.N. with the F.I.A.'s agreement, in the case of events organized under particular climatic conditions (on desert or tropical courses for instance).

The make and capacity (amperage) of **battery and generator** are free. The manufacturer may provide for one same minimum series the use either of a dynamo or of an alternator on condition that this is explicitly mentioned on the basic recognition form or on an additional « variant » form.

The original battery may be replaced — by the manufacturer or the entrant himself — by another one of larger capacity provided however that the location remains unchanged. By location of the battery is meant the coachwork compartment in which the battery is originally mounted.

Ignition coil, condenser, distributor and regulator are free; subject to the ignition system remaining the same as that provided by the manufacturer for the model concerned, and the replacement of the said accessories do not entail any modification of the attachment system provided by the manufacturer for the model concerned.

Spark plugs: make and type free.

c) **Cooling circuit**: if, for the same model, radiators of different capacities are normally provided, only those mounted on the required number of cars necessary for the recognition will be authorized. The addition of a radiator screen is authorized.

The use of a radiator with a larger capacity may be authorized by the A.C.N. with the F.I.A.'s agreement, in the case of events organized under particular climatic conditions (on desert or tropical courses for instance).

Make and type of thermostat are free, but it may not be removed nor its position changed.

d) **Induction**: the carburettor(s) or fuel injector(s) pump(s) normally mounted on the recognized model and described on the recognition form may not be changed or removed.

The elements which control the quantity of fuel fed in the engine may be changed, but not those which control the quantity of air.

e) **Electrical equipment**: the tension (voltage) of the electrical equipment may not be changed.

The make and capacity (amperage) of **battery and generator** are free. The manufacturer may provide for one same minimum series the use either of a dynamo or of an alternator on condition that this is explicitly mentioned on the basic recognition form or on an additional « variant » form.

The original battery may be replaced — by the manufacturer or the entrant himself — by another one of larger capacity provided however that the location remains unchanged. By location of the battery is meant the coachwork compartment in which the battery is originally mounted.

Ignition coil, condenser, distributor and regulator are free; subject to the ignition system remaining the same as that provided by the manufacturer for the model concerned, and the replacement of the said accessories do not entail any modification of the attachment system provided by the manufacturer for the model concerned.

Spark plugs: make and type free.

f) **Transmission**: for one same series of 5,000 cars the following possibilities are given on the express condition that they are those of the series-production and that they are normally sold to the purchaser and entered on the recognition form.

Gear-box:
either two gear-boxes with the same number of ratios but different in their staging,
or two gear-boxes with a different number of ratios and different in staging provided that at least 50% of the required minimum number of cars have been equipped with either one of the gear-boxes.

The fitting of an overdrive system in addition to the existing gear-box is authorized.

Final drive: two different ratios.

Should the manufacturer have provided a greater number of gear-box ratios and/or rear axle ratios, he must, to obtain recognition, prove that he has achieved the required minimum production of the car as many times as he has submitted two different gear-boxes and two different rear-axle ratios. An automatically controlled gear-box is not taken into consideration. The use of it and of its particular rear-axle ratio will always be authorized in addition to the set of two manually controlled gear-boxes.

The gear-box lever must be located as provided by the manufacturer and mentioned on the recognition form. Form and length are free.

g) Shock absorbers: the make and type are free. However, no addition is allowed, and neither their original purpose nor their number, nor their system of operation may be modified. By system of operation is meant: hydraulic, friction, telescopic, or lever type. The original supports may not be changed in any way.

h) Wheels and tyres: wheels must be those provided by the manufacturer for the considered model. They are defined by their diameter, the width of their rim and the track they determine. Wheels which differ by their shape or dimensions may be recognized subject to the following conditions:

- that there are enough cars equipped with such wheels to justify recognition,
- that they are mounted in compliance with the specifications of paragraph «mudguards» of art. 253.

In any case, the four wheels of a car must always belong to one and the same recognized set of wheels.

Tyres are free (make and type) on condition they are tyres provided by their manufacturer to be fitted on the wheels without any intermediary device. All special or additional non-skid devices for snow or ice may also be fitted.

i) Brake: must be those provided by the manufacturer. The replacement of worn linings is authorized and their system of attachment is free, provided the dimensions of inner friction surfaces remain unchanged, servo-assistance is only permitted when duly recognized as fitted on a number of identical cars equal at least to that required for recognition.

It is permissible to fit a dual braking system on condition that it be of the same make as that of the hydraulic master cylinder or provided by the manufacturer of the vehicle.

j) Supplementary accessories not included in the recognition: are authorized without restriction provided they have no influence whatsoever on the behaviour of the car, such as those concerning the aesthetics or the inside comfort (lighting, heating, radio, etc.) or those enabling an easier or safer driving of the car (speed-pilot, windscreen wiper, etc.) provided they do not affect, even indirectly, the mechanical performance of the engine, the engine, the steering, the transmission, the road holding and the braking.

All controls and their functions must remain those provided by the manufacturer, but it is permissible to arrange them in such a way as to make them accessible and easier to use, i.e. lengthening of the handbrake-lever, fitting of additional pads to the brake-pedal, etc. The position of the steering-wheel may be indifferently on the left or on the right, provided this only results in a simple transposition of the steering-system linkages as provided and supplied by the manufacturer and without any other mechanical alteration (manifolds, etc.).

k) Coachwork: none of the normal elements of the coachwork (dash-board, all inside quiltings whatever their location), and none of the accessories normally mounted by the manufacturer on the lowest priced model may be removed or replaced.

However, the modifications deriving from the fitting of the supplementary accessories authorized in the preceding paragraph, such as those necessitated by the addition of a windscreen washer (drilling of a hole into the bonnet) or of a rev. counter (housing in the dash-board), will be allowed.

The same minimum series may comprehend various materials...
for seats, upholstery and inside quilting (cloth, leather, plastics, etc.) and two different types of front seats (bench type or separate seats). These variants must be stated on the recognition form and in particular the different weights resulting from the mounting of different seats must be specified.

Transparent parts must, in case of damage, be replaced by others made of a material identical to the original one listed on the recognition form. They shall be completely interchangeable with those originally fitted. They must be mounted on the original supports and their original opening system (if any) must be maintained.

I) Bumpers, embellishers, streamlining: bumpers are compulsory on all cars for which the manufacturer has normally provided them. For speed-events on circuit and for hillclimbs, the supplementary regulations may authorize the bumpers of a car to be removed. Failing such an authorization the bumpers must remain. For rallies, any car, normally delivered with bumpers and the recognition form of which shows such an equipment, must retain them.

Wheel embellishers may be removed. The addition of any protective device underneath the car is forbidden unless such a device is mentioned on the recognition form of the model in question or is authorized or made compulsory by the supplementary regulations of the event.

**TITLE IV**

**TOURING CARS**

**Art. 258. — Definition:** cars of limited series-production which may be submitted to certain modifications aimed at making them better suited to competition. The list of the modifications and additions explicitly authorized is given hereafter under art. 260.

Moreover in this group may be classed cars of group 1 which have been subject to modifications and/or additions exceeding the limits of group 1. These cars will then enjoy the same freedom as provided for group 2.

**Art. 259. — Minimum production and number of seats:** touring cars shall have been manufactured in a quantity of at least 1,000 units and be equipped with at least 4 seats; however if their cylinder-capacity is equal or inferior to 700 cc, they may be delivered as two-seaters.

**Art. 260. — Modifications and additions authorized:** all those already authorized in group 1, plus the following ones:

a) **Lighting devices:** the mounting of additional headlights is authorized provided that a total of 6 headlights is not exceeded (parking lights not included). Extra headlights may, if necessary be fitted into the front part of the coachwork or into the radiator grille, but such openings as needed in this case must be completely filled by the additional headlights. Shall be considered as a headlight any lighting-device throwing a beam towards the front (dipped-beam, long range lamp, anti-fog lamp).

b) **Electrical equipment:** the replacement of a dynamo by an alternator is authorized provided the attachment system and the driving method remain unchanged. The fitting of a transistorized ignition is authorized provided there is no change of any mechanical part of the engine.

c) **Reboring:** maximum tolerance: 1.2 mm, but the resulting increase in cylinder-capacity may not be such as to make the car pass into a higher cylinder-capacity class. This reboring tolerance is valid for any type of engine (with or without sleeves).

d) **Stabilizer:** the fitting of a stabilizer is authorized.

e) **Fan:** complete freedom regarding the number and the dimensions of the blades (or their complete removal) as well as the possibility of temporarily stopping their action by a clutch. The location and the driving method of the fan must remain those provided by the manufacturer and mentioned on the recognition form of the model concerned.

f) **Air-filter:** may be changed or removed.

Dynamic air intakes may be fitted on the carburettor(s) provided it entails no coachwork modification (boring of holes, for instance).

g) **Fuel-pump:** a mechanically controlled pump may be replaced by an electrically controlled one, the location of which may be different.
The type of pump is free and the fitting of a pump even of larger capacity is authorized. The fitting of an additional pump is also authorized provided it is not connected to the fuel pipe.

h) Oil filter and cooler: an oil filter and/or oil cooler may be added when the model provided by the manufacturer has none, or an existing one may be altered.

i) Carburettor(s): the carburettor(s) provided by the manufacturer may be replaced by another (others) of a different size, provided:
   - the number be the same as that provided by the manufacturer,
   - they can be mounted on the inlet manifold of the engine without using any intermediary device and by using the original attachment parts.

j) Springs: (valves, clutch, suspension, etc.) may be replaced by others of unrestricted origin, but with no modification of the number provided by the manufacturer and on condition they can be fitted without alteration of the original supports.

k) Transmission: may be used all gear-boxes, manual or automatic, and all final drive ratios provided and delivered by the manufacturer for the model concerned, which have been granted recognition and are entered on the recognition form. The replacement of a manually controlled clutch by an automatic is authorized, whatever its operating system may be.

l) Differential: it may include a device to limit its normal functioning (limited slip control). This device must be entered in the recognition form or on an additional form (variant). The use of a device which completely blocks the functioning of the differential may not be authorized unless it has been fitted on the same minimum number of cars as necessary for recognition of the basic model.

m) Pistons and camshaft(s): all modifications of pistons are permitted. They may be lightened, their shape may be altered and they may even be replaced by others supplied or not by the manufacturer.

The camshaft(s) may also be altered or replaced by others supplied or not by the manufacturer.

n) Cylinder block and head: the increase in the compression ratio through machining of the cylinder head or block (or using a thinner gasket or removing it) is authorized.

o) Muffler: the make and type are free, on condition that the original exhaust manifold — and particularly its outlet port — remains entirely identical to the original part. The silencing effectiveness shall not be diminished. It shall, in any case, remain within the legal limits of the country where the event is run.

By exhaust manifold is meant the part collecting together the gases from the cylinder-head and extending to the entrance port of the first muffler.

p) Finishing off: all perfecting operations by finishing or machining the original mechanical parts (to the exception of any coachwork element) but not their replacement, except with regard to springs, pistons and camshaft(s) as specified above under paragraph j and m. In other words, provided it is always possible to ascertain unquestionably the origin of the series-production part, it may be rectified, balanced, lightened, reduced or modified with regard to the shape through tooling, to the exclusion of any addition of material or any mechanical extension or of any process involving a change of the characteristics of the molecular structure or of the surface of the metal.

q) Wheels and rims: must retain the dimensions provided by the manufacturer for his series-production model and be mentioned on the recognition form.

One basic series may include wheels of different types (solid or perforated disc wheels, spoke-wheels, etc.) and of different dimensions. But even when the recognition form mentions such difference, all four wheels must have the same dimensions.

r) Brakes: the fitting of a dual pump or any type of device providing both a simultaneous action on the four wheels and divided action on two wheels is authorized.

The make and attachment system of linings are free, but no other change is authorized. In particular, the dimensions of inner friction surfaces must remain unchanged.

The mounting of a braking servo-assistance system is authorized.
s) **Coachwork elements**: the steering-wheel and the front seats may be replaced, provided seats of at least the same weight as the original ones be substituted to them.

1) **Cables and pipes**: it is allowed to entirely modify the arrangement, location and materials of all cables and pipes providing for the passage of fluid elements (air, water, fuel, electric currents, etc.).

u) **Fuel tanks and radiators**: additional fuel tanks and/or fuel tanks and radiators of larger capacity are authorized, provided:

1) they are provided and supplied by the manufacturer for the model concerned and mentioned on the recognition form or an additional form.
2) the fuel tanks must not:
   - be a makeshift installation;
   - be fitted inside the passengers compartment, nor reduce capacity of the luggage-boot beyond the minimum specified in art. 253, nor encroach upon the space provided for the spare-wheel;
   - have a larger filling port than that of the main tank.

However for speed-events on closed circuits, the supplementary regulations may leave the dimensions of filling ports (main and auxiliary tanks) free or authorize larger ones than those provided by the manufacturer.

### TITLE V

**GRAND TOURING CARS**

**Art. 261. — Definition**: cars manufactured on a small series-production scale and designed for the drivers who seek the best possible performances and/or the greatest comfort without a special concern about the cost.

**Art. 262. — Minimum production and number of seats**: grand touring cars must have been manufactured in a quantity of at least 500 units identical in all respects (unless authorizations, listed hereafter under art. 263 specify otherwise) and be equipped with at least 2 seats.

**Art. 263. — Modifications and/or additions authorized**: exactly the same as those authorized for group 2 (touring cars).

### TITLE VI

**SPORTSCARS**

**Art. 264. — Definition**: high performance cars which must nevertheless include all equipments normally provided and legally required for vehicles using public roads.

**Art. 265. — Minimum production and number of seats**: sportscars must have been manufactured in a quantity of at least 50 units and be equipped with at least 2 seats (as defined above under art. 253).

**Art. 266. — Conditions required for recognition**: the 50 cars shall be identical as regard the following points:

a) **Coachwork**: general line, materials of construction, shape of wings and bonnet, number of doors. Small modifications will be allowed when made necessary by the different uses of the car (circuit or road events), or by the mounting of supplementary equipments authorized by the present regulations.

b) **Chassis**: wheelbase and track.

c) **Engine**: cylinder-head, cylinder block, number of cylinders, bore, stroke, number and location of crankshaft bearings, type of bearings and of all rotating parts; number, location and driving system of camshafts.
   - Number of valves and valve-operating system.
   - Number and location of the inlet and exhaust ports. (Free: ignition including the number of spark plugs, induction and exhaust: carburettor, filters, manifolds).
   - Re-boring of the engine is allowed up to 1,2 mm, regardless of the type of engine (with or without sleeves).

d) **Transmission**: only one series of gears authorized, plus
an automatic gear-box. Complete freedom for all gear-box and
final drive ratios.

e) Suspension: operating principle and function of its com-
ponents.

f) Braking systems: the braking system (drums or discs, or
drum and disc brakes) must be identical on all cars of the
minimum series required for recognition. The braking system
must be laid out in such a way that the brake pedal normally controls
the four wheels. In case of a leak at any point of the piping or
any failure in the braking transmission the brake pedal should
continue to operate on at least two wheels.

g) minimum weight: the weight of the
sportscars shall be
at least the one stated by their manufacturer on the recognition
form of the model concerned, no reduction being allowed. This
weight shall be at least equal to the minimum limits mentioned
hereafter:

<table>
<thead>
<tr>
<th>Engine cylinder-capacity (cc)</th>
<th>Minimum Weight (kgs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 500</td>
<td>450</td>
</tr>
<tr>
<td>500-600</td>
<td>460</td>
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<tr>
<td>600-700</td>
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<td>700-850</td>
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<td>2500-3000</td>
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<tr>
<td>3000-5000</td>
<td>700</td>
</tr>
<tr>
<td>Over 5000</td>
<td>750</td>
</tr>
</tbody>
</table>

TITLE VII

SPECIAL TOURING CARS

Art. 267. — Definition and specifications: vehicles deriving
from cars recognized in groups 1 and 2, of which they have
kept the original coachwork, but which have been submitted to
modifications and/or additions not authorized under articles 257
and 260.

These alterations and/or additions may affect the mechanical
parts of the engine, of the transmission, of the steering, of the
suspension, the number of carburettors, the inlet and exhaust
system, the braking system.

The re-boring of the engine whether sleeveless or fitted with
sleeves, is authorized up to the limit of the class to which
belongs the car according to its original cylinder-capacity.

Improvement of the braking may be sought without any
obligation of maintaining the original system. Thus, drum brakes
may be replaced by disc brakes.

However, the fundamentals and general design of the car,
of the engine and other mechanical parts must remain the same
as those of the corresponding series-production car. The number
and location of camshafts, the valve-operating system must remain
unchanged. An induction system by carburettor may be replaced
by indirect injection, but not by direct injection. Neither the
shape nor the original materials of the standard coachwork may
be modified, the chassis may be reinforced but not lightened or
cut. The track and wheelbase must remain unchanged, except
for differences in track caused by simply changing the wheels.

The suspension and rear axle must remain of same type.
All casings and blocks housing the mechanical parts must remain
unchanged, except for the following:
1) Cylinder-head;
2) Oil sump;
3) Braking system;
4) Gear-box and rear axle, which may be subject to minor
alterations to enable modification of the gear-box ratios
or the mounting of an overdrive.

The minimum weight must be that entered on the recognition
form of the corresponding series-production touring car, but the
tolerance granted when the weight is checked will be minus 3 %.

All changes and/or additions not authorized under articles 257
and 260 shall be the subject of a written statement from the
competitor to be appended to the entry form sent to the
promoters.

N.B. — At the time of publication of the present Appendix J
additional regulations are awaiting approval by the C.S.I. They
concern series-produced cars of a cylinder-capacity exceeding
5,000 cc and especially prepared for being used in circuit races. In the United States, these cars are called «stock cars». For this reason, the numbering of the articles will show a gap pending the completion of the present Title VII.

TITLE VIII

PROTOTYPE - SPORTSCARS

Art. 281. — Definition: cars especially manufactured for speed or endurance races on closed circuits, but designed however as being the prefiguration of a future production car. That is why they must offer certain minimum conditions of habitability, and standard equipment making them fit for normal driving on an open road.

Art. 282. — Specifications: these cars shall meet all general specifications concerning cars of categories A and B (see hereabove art. 253). Furthermore cars of group 6 must be equipped with a dual braking system such as specified under article 266 f).

However, a waiver may be granted for cars of this group as far as the following points are concerned:
— the dimensions of the front wheels may be different from those of the rear-wheels;
— the weight is free, but the F.I.A. have specified that only prototype-sportscars with a weight at least equal to the minimum weights compulsory for cars of group 4 (see hereabove under art. 266) will be permitted to participate in qualifying events of the International Championship of Manufacturers.

TITLE IX

NON DEFINED CARS

Art. 283. — Special ruling for rallies: Promoters may allow participation in an event of cars of any type and which do not correspond to any of the above categories or groups, such as for instance military cars, buses, lorries, etc.

But in this case these non-defined vehicles shall have to be classed separately and may under no condition be mingled with other cars in the general classification of the event.

TITLE X

TWO-SEATER RACING CARS


Art. 285. — Classification of cars shall be according to engine displacement as follows:

- 1st series: inferior or equal to 850 cc
- 2nd series: from 850 to 1,150 cc
- 3rd series: from 1,150 to 1,600 cc
- 4th series: from 1,600 to 2,000 cc
- 5th series: from 2,000 to 3,000 cc
- 6th series: from 3,000 to 5,000 cc
- 7th series: over 5,000 cc

Supplementary regulations of an event may provide for combining any of the above series of classes.

Art. 286. — Fuel: only commercial fuel such as defined by the F.I.A. shall be used (see definition hereafter).

Art. 287. — Self-starter: the starting of the engine must be done by the driver seated at his wheel by means of a starter with a source of energy aboard the car.

Art. 288. — Brakes: these cars shall be equipped with a dual braking system operated by a singlecontrol. In case of a leak or failure at any point in the system, effective braking power shall be maintained on at least two wheels.

A separate hand brake (emergency brake) is not required.

Art. 289. — Coachwork: coachwork shall provide comfort and safety for driver and a passenger. All elements of the coachwork shall be completely and neatly designed and finished,
with no temporary or makeshift elements. The body shall cover all mechanical components, except that the intake and exhaust pipes may protrude.

All major body components such as front and rear bonnet and/or hood, mudguards, doors and windscreen must be maintained in normal position throughout the event.

a) Cockpit and seats: there shall be seats for the driver and a passenger of equal dimension and comfort, and equally disposed on each side of the longitudinal axis of the car. Seats shall be firmly attached in the car, but may provide for adjustment for the size of the occupant.

The passenger's space and seat shall remain available throughout the competition and shall not be encroached upon by any element of the car or equipment except as provided in these rules.

The passenger's compartment and seat shall not be sheltered by means of a tonneau cover of any type.

Driver and passenger space shall satisfy the following minimum dimensions:

- the inside minimum width of the compartment shall be 100 cm measured at the immediate rear of the steering wheel hub and at right angles to the longitudinal axis of the car, and must be unobstructed and maintained at least 25 cm in a vertical plane.

Seats must fulfill the following minimum dimensions:

\[ a + b + c = 110 \text{ cm minimum.} \]

The minimum width for the foot space for each person must be 25 cm measured at right angles to the longitudinal axis of the chassis.

Windshield wipers are not required.

b) Visibility: coachwork shall provide visibility for driver and passenger forward and to both sides adequate for racing condition. Rear view mirror(s) shall provide driver visibility to the rear of both sides of the car.

c) Doors: coachwork shall provide at least two rigid doors giving direct access to each seat. Each door shall accept a rectangle held in a vertical plane of at least 30 cm × 50 cm.

These dimensions shall not include any area above the horizontal plane of the body and door panels. The door openings may not be obstructed in any way. The locking mechanism shall be operable from both inside and outside of the car.

On closed cars, the doors shall be so designed that in case the car is partially or completely overturned at least one of the doors shall remain in a position to be opened, or a means of escape other than the door must be provided.

d) Mudguards: mudguards shall be firmly attached to the coachwork with no gap between body and mudguard. They shall be placed above the tires and shall cover them effectively by
surrounding at least a third of their circumference. The width of each mudguard shall extend beyond the side of the tires when the wheels are parallel to the longitudinal axis of the car.
In case the mudguards constitute a part of the body, or are partly overhung by the structure of the body, the combination of mudguards and body, or the body alone, shall meet the above requirements.

Art. 290. — Lighting: the minimum lighting equipment shall be:
  a) at least two braking-lights;
  b) for night racing, two head-lights at least as effective as those normally fitted on touring cars and two direction indicators mounted at the rear.

The supplementary regulations of an event may require additional lighting equipment.

Art. 291. — Wheels and tyres: there shall be no restriction on the size of wheels or tyres, provided they are identical on the right and left front axles, and identical on the right and left rear axles.

A spare wheel and tyre is not required.

Art. 292. — Safety equipment:
  a) Fire extinguisher: all cars shall carry during competition a dry chemical fire extinguisher of at least 1 kg capacity. It must be securely mounted and may be located in the space provided for the passenger.
  b) Scatter shield: the installation of a scatter shield is required on those cars where the failure of the clutch or flywheel could, due to its location, create a hazard to the driver. In addition, any rotating part of the drive train shall not pass openly through the driver and passenger compartment, but must be under the floor or chassis structure.
  c) Roll bars: cars shall be equipped with a roll bar or structure to protect the driver in case the car overturns. It shall be firmly attached to the chassis structure and designed to withstand compression forces from the weight of the car as well as fore-and-aft loads from horizontal forces.
  d) Safety belts: the car shall be provided with a safety belt of a quick release type attached to the chassis structure and designed to restrain the driver in his seat.
  e) Exhaust system: the exhaust system shall terminate behind the driver and passenger seats.
  f) Firewall and floor: cars shall have an adequate firewall to prevent the passage of flame from the engine compartment or under the car to the cockpit. Openings in the firewall for the passage of engine controls, wires, and lines shall be of the minimum size necessary.

The floor of the cockpit shall be constructed to protect the driver by preventing the entry of gravel, oil, water, and debris from the road and engine. Bottom panels or belly panels shall be adequately vented to prevent the accumulation of liquid.

  g) Bulkheads and tanks: no part of any fuel, oil or water tank shall be exposed to any part of the driver and passenger compartment. Fuel tanks shall be vented to prevent the accumulation of fumes and to prevent fumes from passing into the driver or engine compartment.

Fuel tanks shall be isolated by means of bulkheads so that in case of spillage, leakage or a failure of the tank the fuel will not pass into the driver or engine compartment or around any part of the exhaust system.

Batteries shall be fully enclosed.

  h) Closed cars: adequate ventilation shall be provided to prevent the accumulation of fumes inside the car.

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TITLE XI

SINGLE-SEATER RACING CARS

Art. 293. — Formula n° 1.


Engines with alternating pistons:
  a) engine cylinder-capacity without supercharging: inferior or equal to 3,000 cc;
  b) engine cylinder-capacity with supercharging: inferior or equal to 1,500 cc.
Special engines:

a) Rotary piston engines: cars with rotary piston engines covered by the NSU-Wankel patents will be admitted on the basis of a piston displacement equivalence. This equivalence is twice the volume determined by the difference between the maximum and minimum capacity of the working-chamber, thus a maximum capacity of 1,500 cc for a non-supercharged NSU-Wankel type engine and a maximum capacity of 750 cc for a supercharged engine.

b) Turbine engines: cars propelled by a turbine engine will be admitted on the basis of a formula of equivalence with regard to alternating piston engines. This formula is the following:

\[ A = \frac{C \times 0.09625}{(3.10 \times R) - 7.63} \]

- High-pressure nozzle area-expressed in square centimetres by which is meant the area of the air-flow at the exit from the stator blades (or at the exit from the first stage if the stator has several stages). Measurement is done by taking the minimum area between the fixed blades of the high pressure turbine first stage. In cases where the first stage turbine stator blades are adjustable, they will open to their greatest extend to present the greatest area for the determination of area «A».

The area of the high pressure nozzle is thus the product — expressed in square centimetres — of height by width and by the number of vane spaces.

C = Cylinder-capacity of the alternating piston engine expressed in cubic centimetres (formula 1: 3,000 cc).

R = The pressure ratio i.e. the ratio of the compressor of the turbine engine. This pressure ratio is obtained by multiplying together a value for each stage of the compressor, as indicated hereafter:

- Subsonic axial compressor = 1,15 per stage.
- Supersonic axial compressor = 1,5 per stage.
- Radial compressor = 4,25 per stage.

Thus a compressor with one radial and six axial stages will be designated to have a pressure ratio of:

\[ 4,25 \times 1,15 \times 1,15 \times 1,15 \times 1,15 \times 1,15 \times 1,15 \]

or

\[ 4,25 \times 1,15^6 \]

c) The C.S.I. reserve their right to modify the basis of comparison established between conventional type engines and new type engines, while giving a previous notice of one year to start from January 1st, following the date on which the decision was made.

Minimum weight, without ballast (see hereafter) : 500 kilos.

Conditions imposed on Formula 1 events:

a) events counting for the World Championship must compulsorily be run on a distance of at least 300 km and at the most 400 km;

b) for other events, the promoters are free to fix the distance they want in the supplementary regulations of their event, but should the provided distance exceed 400 km, they must compulsorily provide at least one re-fuelling operation.

Art. 294. — Formula n° 2.


Alternating piston engines: engine cylinder-capacity superior to 1,300 cc and inferior or equal to 1,600 cc.

Special engines: the same specifications as those provided hereabove for Formula 1 are valid for Formula 2, the difference of cylinder-capacity being taken into account.

Minimum weight, without ballast (see hereafter) : 420 kgs.

The cylinder-block must compulsorily be taken from an F.I.A. recognized model of car, manufactured in a quantity of at least 500 units in 12 consecutive months. The cylinder-capacity may be obtained by increasing or reducing either the original bore or stroke or both dimensions.

On the cylinder-block, entirely finished will be permitted all modifications which are necessary to ensure the mounting and/or tightness of the cylinder-head, the driving device of the camshaft(s), ignition distributor, pumps (water, fuel, injection pump) and other accessories, when the original location or form of the above has been changed.
The type of cylinder (with or without sleeves) as well as the friction system of connecting rod and crankshaft bearings must remain the same as on the original engine.

The number of camshafts is free.

Feeding: the feeding system of the engine is free (by carburettor, direct or indirect injection) but no device liable to have a supercharging effect may be mounted.

The number of cylinders per engine is limited at six, but the C.S.I. reserve their right to reconsider this decision from the moment that the F.I.A. would have recognized in one of the first three groups of Appendix « J », three models of cars of different makes with an engine of more than six cylinders and of a cylinder-capacity inferior or equal to 2.000 cc. However such a decision of modification would only come into effect as from the 1st January of the following year.

Cooling system: the system of the original engine must be preserved (by air, by water).

Propulsion: through a maximum of 2 wheels.

Gear-box: maximum 5 ratios, the reverse-gear not included.

Art. 295. — Formula n° 3.

Validity: from 1st January 1964 to 31st December 1968.

Engine: alternating piston engines only. Max. cyl. capacity 1.000 cc. Maximum cylinder-capacity may be obtained by increasing or reducing either the original bore or stroke or both dimensions.

Maximum number of cylinders: 4.

The engine block, including cylinder-head and cylinders (should they be removable) shall be those of an F.I.A. recognized model of car, manufactured in a quantity of at least 1.000 units in 12 consecutive months, excluding all engines with overhead camshafts.

The number of crankshaft bearings shall not be modified, nor the type of bearing (the replacement of a plain bearing by a roller bearing is therefore forbidden). The location of the camshaft shall not be altered.

The induction system shall be the same as that used on the car from which the engine has been taken (the use of an injection system on an engine normally fed by a carburettor is therefore forbidden).

The engine shall be equipped with only one carburettor, whatever its number of chokes, and a throttling flange of a maximum diameter of 36 mm and a minimum thickness of 3 mm shall compulsorily be mounted between carburettor and inlet pipe. Through this throttling flange all the carburated mixture feeding the cylinders must pass.

No supercharging device is authorized even if a series-production one was mounted on the original engine.

Other mechanical parts: the gear-box shall be that of an F.I.A. recognized model of car, manufactured in a quantity of at least 1.000 units in 12 consecutive months, but not necessarily the one from which the engine has been taken. It shall not have more than 4 forward ratios plus a reverse gear. The scale of ratios is free. The use of any self-locking system on the differential is forbidden.

Dimensions: minimum wheelbase 200 cm, minimum track 110 cm, maximum width of coachwork 95 cm.

Minimum weight, without ballast (see hereafter): 400 kilos.

Certificate of origin: any Formula 3 car showing up at the start of an event shall be supplied with a certificate established by the manufacturer and ratified by the National Sporting Authority, specifying the origin of the basic elements of the vehicle.

Art. 296. — Prescriptions and definitions applicable to racing cars of the 3 international formulae.

a) Minimum weight: the minimum weight is that of the car in running order i.e. with all lubrication and cooling liquids but without fuel.

The ballast which is prohibited is that of a removable type. It is therefore permissible to complete the weight of the car through one or several ballasts incorporated to the materials of the car provided that solid and unitary blocks are used, and that they are fixed by means of a tool and offer the opportunity of being sealed on should the officials entrusted with the scrutineering of the car deem it necessary.
b) The construction of the vehicle must be symmetrical i.e. when the car is lifted laterally and weighed, the half weight on either side must be equal to half the overall weight, a margin of + or — 5% being allowed for the said half weight. To verify the above, the weighing must be done with all tanks full (fuel, water, oil) and a driver, weighing at least 75 kilos normally sitting at the steering-wheel (or a ballast of the same weight occupying the same place).

c) Reverse-gear: all vehicles must have a gear-box including a reverse-gear, which must be in working order when the car starts the events and able to be operated by the driver when normally in his seat.

e) Protection against fire: besides that already provided by art. 125 of the International Sporting Code, the car shall be equipped with a general electric circuit-breaker either operating automatically or at the disposal of the driver.

f) Driver’s seat liable to be occupied or left without it being necessary to open a door or remove a panel. Sitting at his steering-wheel the driver must be facing the road.

g) Attachment points for safety-belt, the use of such a belt being optional.

h) Compulsory roll-bar complying with the following conditions:
- not overhanging the driver’s head;
- exceeding in height by at least 3 cms the head of the driver, wearing his helmet and normally sitting at his steering-wheel;
- exceeding in width the shoulders of the driver sitting at the steering-wheel;
- be strong enough to support at least the weight of the car plus that of the fuel (tanks full) and the driver, without breaking nor deforming.

i) Wheels shall be external to the coachwork in such a way that no lateral elements of the coachwork (except for the allowance made for fuel tanks, as specified hereunder) may protrude beyond the vertical plane tangent to the inner face of the wheels. Should there be different tracks, the fore part of the coachwork shall be limited by the vertical plane tangent to the inner face of the front wheels, and the rear part by the vertical plane tangent to the inner face of the rear wheels.

The mounting of lateral fuel tanks is tolerated provided however they do not protrude beyond the vertical plane passing through the median line of the tires.

j) Braking safety system which must include a double circuit operated by the same pedal and complying with the following:
- the pedal shall normally control the four wheels;
- in case of a leakage at any point of the brake system pipes or of any kind of failure in the brake transmission system, the pedal shall still control at least two wheels.

k) Fuel tanks complying with the following requirements:
- the filling port(s) and their caps shall not protrude beyond the coachwork material;
- the opening shall have a sufficient diameter for allowing the air exhaust at the time of quick refuelling (in particular those done under pressure) and if necessary the breather-pipe connecting the tank with the atmosphere shall be such as to avoid any liquid leakage during the running.

l) Oil catch tank: the mounting of a tank(s) or device meant for collecting any oil spilling out of the engine and/or transmission is compulsory. This device shall have a minimum capacity of 3 litres for F1 vehicles and those of formula libre of a cylinder-capacity of more than 2,000 cc and a minimum capacity of 2 litres for vehicles of Formula 2 and 3 and of formula libre of a cylinder-capacity inferior or equal to 2,000 cc.

m) Exhaust pipes: the outlet orifices of the exhaust pipes, when directed horizontally to the rear, must be placed at a height of more than 30 cm and less than 60 cm above the ground. If they are not entirely covered by an element of the coachwork, they may not protrude by more than 25 cm beyond the overall length of the car.

n) No refuelling of lubricant is allowed for the whole duration of the event.

The filling ports of the oil tanks and radiators shall provide the possibility of affixing seals.

The leads sealing the filling port(s) of the lubricant tank(s) may not be removed at any time during the race.
The leads sealing the filling port(s) of the radiator(s) shall be in place at the start of the race, but may be removed at any pit-stop.


a) Fuel for all piston engines (alternating and rotary): by « commercial fuel » to be used in motor car speed events, the Federation Internationale de l'Automobile intends to designate a « motor » fuel produced by an Oil Company and currently distributed at road refuelling stations throughout one same country.

May therefore be used, in all speed races for which the use of commercial fuel is compulsory, all commercial fuels of the country in which the event takes place, with no other additive except that of a lubricant of current sale which cannot increase the octane number, or water.

May also be used, under the same conditions, any commercial fuel(s) which — in France, Germany, Great Britain and Italy — is (are) of the highest octane rating, according to the Research Method.

If the above-mentioned fuel could not be easily imported into the country where the event is taking place, it may be replaced by another one of similar quality and with the same octane-number (RM) — with a tolerance of +1 — specially made by an Oil Company.

Whenever — in France, Great Britain, Germany and Italy — a new commercial fuel is made available which has a higher octane-rating than those sold so far, the Oil Company producing this said fuel shall give notice to the F.I.A. by a registered letter and this new commercial fuel (or its equivalent as specified hereabove) may be used for racing 30 days after the registered letter has been mailed.

The Oil Companies who supply fuel directly to the entrants of a race shall have to send to the promoters the characteristics and a sample of the fuel delivered in such quantity as is sufficient to carry out the necessary analyses, and also a declaration stating that the fuel complies with the present specifications.

b) Fuel for vehicles propelled by turbine engines: kerosene used by commercial aviation companies for turbo-prop or jet engines or the fuel used by vehicles with conventional type engines and complying with the here-above definition of « commercial fuel ».

Art. 298. — Formula « libre ».

It is permitted to organize sporting competitions open to other racing cars than those defined by one of the 3 International Formulae.

All specifications concerning the vehicles and particularly the limitations of the cylinder-capacity are in this case at the discretion of the promoters and it rests with them to list these specifications as clearly as possible in the Supplementary Regulations of the event, which anyway have to be approved by the National Sporting Authority answerable to the F.I.A.

However racing cars which do not comply with any of the International Racing Formulae, must for security reasons be in conformity with the following rules listed here-above under Art. 296, General prescriptions and definitions: e), h), j), k), l), m), n).