IMPROVED PRODUCTION RACING ASSOCIATION of AUSTRALIA

Subject:

Update of permissible wheel and tyre sizes.

Proposal:

This proposal is to:

- remove the minimum aspect ratio requirement
- increase the maximum allowable wheel width dependant upon effective capacity and minimum race weights for early model vehicles
- to increase the maximum allowable wheel width for all vehicles over 1550kg
- to specify a set maximum permissible tyre width
- to update the Wheel and Tyre Size table with the proposed changes and into an easier to read format

Date:

1 October 2020

11 November 2020 – Updated in accordance with AMRC directions

For Endorsement by: Motorsport Australia

Purpose:

To:

- Allow more manufacturers to tender for IPRA tyre tender contract
- Ensure that heavier vehicles are not forced to use wheel and tyre sizes which are too small for the weight and performance of the vehicle, no matter whether that vehicle is early or late model
- Allow wheel sizes that are suitable for the larger tyre sizes

Is this rule proposed to attract new competitors:

No

Background:

The current IPRA regulations state a minimum aspect ratio of 50 for all vehicles, except for vehicles with piston engines of six or more cylinders, where an aspect ratio of 45 is permitted. This restriction on aspect ratios significantly reduces the

options available from other tyre manufacturers who do not make these sizes and therefore do not submit a tyre tender. During the previous tyre tender process, it was identified that some of the more popular tyre sizes (width and diameter) were not available from other manufactures due to this aspect ratio restriction.

A few IPRA members, particularly some with heavier vehicles, have experienced issues with tyre management.

Intent:

- Remove the restrictions on tyre aspect ratio to potentially increase the number of tyre manufacturers submitting tenders during the IPRA tyre tender process, allowing a competitive tendering period.

- Increase the maximum permitted wheel size dependant on the capacity and/or weight of the vehicle to reduce the number of tyre failures and increase the safety of heavier vehicles.

- Specification of a maximum tyre size to ensure competitors do not attempt to use overly large tyres on wheels that meet the IPRA regulations but are too small for the tyre size.

- Update the Wheel and Tyre size table to reflect the proposed changes and format the table into an easier to read format.

Proposed wording:

11.   WHEELS AND TYRES

11.1   WHEELS

Wheels are free subject to the following table:

Vehicle Type	Max. Wheel Width	Max. Wheel Diameter
3j(a) < 3000cc	7"	15"
3j(b) < 3000cc	8"	Unlimited
3j(a) > 3000cc	8"	15"

IMPROVED PRODUCTION RACING ASSOCIATION of AUSTRALIA

3j(a) > 3000cc (6 or 8cyl vehicles only)	8"	16"
3j(a) > 3000cc and the vehicle meets the minimum race weights as specified in 16.5 for swept engine volume.	9"	Unlimited
3j(b) > 3000cc	9"	Unlimited
all cars > 1550kg	9.5"	Unlimited

11.2   TYRES

Each tyre must:

(i) For all circuit races and associated practice and qualifying, be either a Yokohama A032R or Yokohama A048R ("M" or "MH" compound) or Yokohama A050 ("M" compound only). Each tyre shall be purchased from the Australian Yokohama Motorsport Distributor Network;

(ii) For speed events other than races be of a type included on the current Motorsport Australia Production Car Tyre list;

(iii) Have at least a minimum tread depth. The tread wear indicators as provided by the tyre manufacturer will be the definitive method of determining minimum tread depth. At no time prior to practice or racing may any tread wear indicator be exposed or in the case where the indicator is a dimple in the tyre, worn below such indicator. This does not apply to the shoulder of the tyre. In all areas where there is no tread wear indicator, the original tread pattern must be clearly visible;

(iv) The maximum tyre width is 265mm; and

(v) Be fitted onto a rim in compliance with Motorsport Australia Manual Schedule E.

IMPROVED PRODUCTION RACING ASSOCIATION of AUSTRALIA

Amendments

8-20 AMENDMENT

Please find below the AMRC Proposed amended rule. The rule has altered from the intent submitted as the AMRC sought to try and give an equal parity across most classes, rather than simply address safety concerns for heavy vehicles as the IPRA Executive Committee had intended.

11.1 WHEELS

Wheels are free subject to the following table:

Vehicle Type	Max. Wheel Width	Max. Wheel Diameter
3j(a) < 2000cc	7"	15"
3j(b) < 2000cc	8"	Unlimited
3j(a) 2000 - 3000cc	~~7"~~ 7.5"	15"
3j(b) 2000 - 3000cc	~~8"~~ 8.5"	Unlimited
3j(a) > 3000cc	~~8"~~ 8.5"	15"
3j(a) > 3000cc (6 or 8cyl vehicles only)	~~8"~~ 8.5"	16"
3j(a) > 3000cc and the vehicle meets the minimum race weights as specified in 17.5 for swept engine volume.	~~8"~~ 9"	~~15"/16"~~ Unlimited
3j(b) > 3000cc	~~9"~~ 9.5"	Unlimited
all cars > 1550kg	~~9"~~ 9.5"	Unlimited

11.2 TYRES

Each tyre must:

(i) For all circuit races and associated practice and qualifying, be either a Yokohama A032R or Yokohama A048R ("M" or "MH" compound) or Yokohama A050 ("M" compound only). Each tyre shall be purchased from the Australian Yokohama Motorsport Distributor Network;

(ii) For speed events other than races be of a type included on the current Motorsport Australia Production Car Tyre list;

(iii) Have at least a minimum tread depth. The tread wear indicators as provided by the tyre manufacturer will be the definitive method of determining minimum tread depth. At no time prior to practice or racing may any tread wear indicator be exposed or in the case where the indicator is a dimple in the tyre, worn below such indicator. This does not apply to the shoulder of the tyre. In all areas where there is no tread wear indicator, the original tread pattern must be clearly visible;

(iv) ~~Have a minimum aspect ratio of 50% except for Automobiles with a piston engine of six (6) or more cylinders where the minimum aspect ratio is 45%; and~~

(v) The maximum tyre width is 265mm as labelled by the tyre manufacturer; and

(vi) Be fitted onto a rim in compliance with Motorsport Australia Manual Schedule E.

IMPROVED PRODUCTION RACING ASSOCIATION of AUSTRALIA

Notations:

Vote by	
Executive Member Name	
Was this distributed to all members	
Date distributed (if applicable)	
Date accepted by National board	
Read out by:	
Witnessed:	

Was the proposal accepted:

Feedback:

Signed…………………………………State……………………Date……………………