

Bulletin Number: **B15/032**
Implementation Date: **01/01/2016**

TECHNICAL BULLETIN

RALLY / ROAD Group 3C – Production Rally Cars (PRC)

REFERENCE:

<http://docs.cams.com.au/Manual/Rally/RR11-Group-3C-PRC-2015-1.pdf>

And

<http://docs.cams.com.au/Manual/Rally/RR09-Road-Events-General-2015-1.pdf>

RATIONALE:

To amend the **Group 3C – Production Rally Cars (PRC)** regulations specifically in regard to the use of inlet air restrictor/s for 4WD Supercharged vehicles.

And

To amend the requirements detailed in the document **Road Events General - Rally Cars - Noise Measurement, Eligibility, Supercharger Sealing Requirements & Scrutineering** specifically in regards to the Eligibility and Supercharger Sealing for 4WD Supercharged vehicles.

ACTION:

Amend the **Group 3C – Production Rally Car (PRC)** regulations as follows as follows:

3.1.2 Induction

...

(b) 4WD Supercharged:

- (i) – for each car using Commercial Fuel in accordance with Schedule G - Fuel:** Restricted: The fitment of a restrictor with a maximum internal diameter of 34mm which conforms with 'Supercharger Sealing Requirements' is mandatory. For **each** cars issued with **a** log books prior to

1 August, 1998 the requirement **that the external diameter of the restrictor at its narrowest point must be less than 40 mm, and must be maintained over a distance of 5 mm to each side** the restrictor plate, at its narrowest point, to be less than 40mm in external diameter, as specified by FIA Group A Regulation 5.1.8.3, is waived. Unrestricted: It is not mandatory for a restrictor to be fitted. Each unrestricted vehicle shall use pump fuel (see Schedule G, Article 2.1).

(ii) – for each car using Pump Fuel in accordance with Schedule G - Fuel: The fitment of a restrictor with a maximum internal diameter of 36mm which conforms with ‘Supercharger Sealing Requirements’ is mandatory. The external diameter of the restrictor at its narrowest point must be less than 42 mm, and must be maintained over a distance of 5 mm to each side.

(c) If the car is For each car equipped with fuel injection, the following modifications are permitted:

- (i) The air inlet system extending to the upstream face of the throttle butterfly, or to the turbo charger impeller should this be upstream of the throttle butterfly, is free.
- (ii) The engine management system (ECU) is free.
- (iii) The injectors are free, but not the number, position or assembly angle in the manifold. If the car is equipped with carburettor/s, those components are free.

(NOTE: each following Article will be renumbered accordingly)

3.1.3 Exhaust

...

(b) On **a** cars fitted with **a** naturally-aspirated engines, **a** 2WD cars fitted with a supercharged engine and on **a 4WD Supercharged** unrestricted cars **fitted with a restrictor according to Article 3.1.2 (b) (ii)**, the exhaust including the manifold is free.

(c) On **a 4WD Supercharged** cars fitted with supercharged engines, **fitted with a restrictor according to Article 3.1.2 (b) (i)** except for unrestricted cars, the exhaust system is free only after the turbo charger wastegate unit. On such cars heat shields may be fitted to the exhaust manifold and/or the turbocharger for the sole function of heat protection.

ACTION:

Amend the requirements detailed in the document Road Events General - Rally Cars - Noise Measurement, Eligibility, Supercharger Sealing Requirements & Scrutineering as follows:

Rally/Road

Supercharger Sealing Requirements

1. Each supercharged Group N, and Group N (P), ~~Group A and Production Rally Car (PRC)~~ 4WD vehicles, whose homologated supercharger inlet size is 33mm or greater (22.6mm for vehicles fitted with two or more superchargers), and for all each supercharged Group A, 4WD Production Rally Cars (PRC), AP4 and G4 vehicles, whose supercharger inlet size is greater than 34mm (24mm for vehicles fitted with two or more superchargers), it will be compulsory to have a restrictor fitted as follows:
 - Group N / Group N(P) – in accordance with FIA Group N Regulations, Article 6.1 (b) Supercharged engines.
 - Group A / PRC / G4 – in accordance with Article 3.1.2 Induction of the Group 3C Production Rally Cars (PRC) regulations and with the FIA Group A Regulations, Article 5.1.8.3 (b), Supercharged engines, ~~except for unrestricted vehicles.~~
 - Group AP4 – in accordance with the requirements of the Group AP4 – Technical Regulations for National Rally Car
2. These Regulations do not apply to two-wheel drive supercharged vehicles. However, competitors with 2WD supercharged ~~or 4WD unrestricted~~ vehicles must attend supercharged/turbo scrutiny and must be checked for inlet size against the homologation papers and have the compressor housing sealed to the bearing housing.
For those competitors with non-homologated 2WD supercharged vehicles, components must be identical to the series part.

END