

The 3j improved production category permits competitors to use engine blocks only from mass produced vehicles. Some vehicle manufacturers offer replacement engine blocks for their road car engines, and these are permitted to be used under some conditions. The 3J improved production engine block regulations are as follows:

4.1 GENERAL

Subject to the limitations contained in 4.2 and 4.3 below, the engine and components directly associated with its function are free. The crankshaft centreline as viewed from above must be parallel to that of the original engine.

4.2 BLOCK

- (a) The block must have the same number of cylinders/rotors and the same configuration as was standard or available as a manufacturer's option for that particular model (e.g. in line, horizontally opposed).
- (b) The block must be from the same manufacturer (e.g. Ford, GMH, and Nissan) as the original Automobile.
- (c) The cylinder block must either be:
 - (i) derived from an eligible Automobile as detailed in Article 1.1; or
 - (ii) derived from the same family of engines as an eligible Automobile using identical internal dimensions (with differences only in transmission mounting pattern, minor external casting differences etc.). The block type must be clearly identifiable, i.e. Nissan SR20DE, SR20DET, Holden Family II, Toyota 4AG series etc.
- (d) The **derived** block must be identifiable as being from a mass-produced Automobile. **It must not have been exclusively developed for sporting evolution models, produced for homologation purposes in small numbers for competition use only or be an aftermarket replacement block, unless eligible in accordance with 4.2(e).** Motorsport Australia will be the final arbiter in determining the eligibility of a block.
- (e) **A road car replacement block, supplied by the same manufacturer, is permitted if approved by Motorsport Australia and listed in the table below. To be listed as an approved replacement block, the replacement block may not have any changes that could offer increased performance over the mass produced engine block.**

Chevrolet Performance part# 10105123

Chevrolet Performance part# 88962516

Chevrolet Performance part# 10066034

- (f) **An engine block that complies with the 2020 3J improved production regulations is permitted to be used until the end of the 2021 season.**

Application Process:

A non-compliant engine application to the AMRC will only be approved if there are no available production engines that will fit in the engine bay of the vehicle applied without modifications that would not comply with the current IPRA rule set.

If a financial member of an improved production club wishes to have a non-compliant engine block added to the approved replacement engine block list

, then:

- 1) The member needs to download this form and fill it in.
- 2) The member then needs to send the completed form to Improved Production Australia.
- 3) Improved Production Australia are required to complete their section of the form and forward the completed form to the Australian Motor Racing Commission (AMRC).

Once the application has been made, the AMRC will determine the eligibility of the proposed replacement block.

If approved, the block will be added to the approved replacement block list, and a new rule set will be published with the requested block added to the approved blocks table.

Competitor to fill in	
Applicant details	
Applicants Name	
Applicant's Motorsport Australia Member Number	
Vehicle log book number	
Vehicle make and model	
IPRA Club and membership number	
Details of engine to be replaced	
Name of the mass-produced engine block type to be replaced	
Identification for the mass-produced engine to be replaced	
Details of the non-compliant replacement engine	
Name of the non-compliant Replacement engine block	
Identification for the non-compliant replacement engine block	

<p>Select any item where the non-compliant Replacement block is different to the mass produced block.</p> <ul style="list-style-type: none"> • Engine Block material (Y\N) • Number of main cap bolts (Y\N) • Bore type (ie Siamese) (Y\N) • Cooling system (Y\N) • Oiling system (Y\N) • Head bolt position (Y\N) • Bellhousing pattern (Y\N) • Block material thickness (Y\N) 	
<p>List any additional items where the replacement engine block differs from the Mass produced engine block</p>	
<p>List the reasons why the competitor believes that this engine block should be approved as a replacement for this mass-produced engine block</p>	
<p>Please detail the problems with fitting a currently available production engine in the engine bay</p>	
<p>What was the power level of the original road specification engine</p>	
<p>What is the achievable power level of the original road specification engine modified within IPRA rules?</p>	
<p>What is the proposed restriction on the non-compliant engine to match to the performance above?</p>	

Improved Production Australia to fill in	
Details of IPRA representative	
Name of Improved Production representative	
Position of representative within Improved Production Australia	
Opinion of Improved Production Australia	
Should this block be approved as a replacement for the mass produced engine listed above?	
Justification for Improved Production Australia's opinion on whether this engine block should be approved as a replacement engine block or not.	

Australian Motor Racing Commission to fill in	
Has this replacement engine been approved or denied?	
Reasoning for the decision of the AMRC	