

TECHNICAL BULLETIN

Off Road – Diesel Engine Capacities

REFERENCE:

CAMS Online Manual of Motor Sport, Section 12, Off Road, Standing Regulations, General and Specific Requirements for Off Road Vehicles:

See: [http://www.camsmanual.com.au/pdf/offroad/1202 Off Road Standing Regs Q108.pdf](http://www.camsmanual.com.au/pdf/offroad/1202%20Off%20Road%20Standing%20Regs%20Q108.pdf)
[http://www.camsmanual.com.au/pdf/offroad/1205 Off Road General Requirements \(GR\) Q108.pdf](http://www.camsmanual.com.au/pdf/offroad/1205%20Off%20Road%20General%20Requirements%20(GR)%20Q108.pdf)
[http://www.camsmanual.com.au/pdf/offroad/1206 Off Road Specific Requirements \(SR\) Q108.pdf](http://www.camsmanual.com.au/pdf/offroad/1206%20Off%20Road%20Specific%20Requirements%20(SR)%20Q108.pdf)

RATIONALE:

To introduce revised capacities for diesel engines which are now commonly available in production 4WD vehicles on the Australian market.

AUTHORITY:

These regulations were approved by the Australian Off Road Commission at its meeting on 1st March 2008.

ACTION:

Amend Article 4.2 of the Off Road Standing Regulations as follows:

4.2 Vehicle classes:

(i) Vehicles will be classified as follows:

Pro Buggy	Buggies with engines over 1650cc and not exceeding 6000cc <u>for petrol engines or 7200cc for diesel engines</u>
Pro-Lite Buggy	Buggies with engines up to 3500cc, naturally aspirated
Super 1650 Buggy	Buggies with engines between 1330cc and 1650cc
Sportsman Buggy	Buggies with engines not exceeding 1330cc
Clubman Buggy - Performance 2WD	Buggies with restricted engines not exceeding 1650cc (State level and below) Modified 2WD with engines not exceeding 6000cc <u>for petrol engines or 7200cc for diesel engines</u>
Extreme 2WD	Highly-modified 2WD with engines not exceeding 6000cc <u>for petrol engines or 7200cc for diesel engines</u>
Production 4WD	Production 4WD with engines not exceeding 6000cc <u>for petrol engines or 7200cc for diesel engines</u>
Extreme 4WD	Highly-modified 4WD with engines not exceeding 6000cc <u>for petrol engines or 7200cc for diesel engines</u>

General Requirements for Off Road Vehicles - add new GR28 to read:

“GR28 Diesel Engines: The effective engine capacity of a supercharged diesel engine will be calculated as the product of the swept volume multiplied by a factor of 1.36.”

Renumber the following GRs as appropriate.

Amend the Off Road Specific Requirements as follows:

**SR 1.2 PRO BUGGY Buggies with engines between 1650cc and not exceeding 6000cc,
ELIGIBILITY/DEFINITION**

A one- or two-seat, two-wheel drive automobile, as defined in GR1.

Engine capacity shall be over 1650cc and not exceeding 6000cc **for petrol engines or 7200cc for diesel engines**, inclusive of any turbo/supercharging, rotary and/or diesel correction factors.

SR 2.1 PERFORMANCE 2WD Modified 2WD with engines not exceeding 6000cc for petrol engines or 7200cc for diesel engines.

SR 2.1.5 ENGINE/TRANSMISSION

The type and location of engine is free provided that it is located in the same general area as envisaged by the manufacturer of the body, subject to it being of not more than 6000cc capacity **for petrol engines or 7200cc for diesel engines**.

SR 2.2 EXTREME 2WD Highly-modified 2WD with engines not exceeding 6000cc for petrol engines or 7200cc for diesel engines. Includes Baja.

SR 2.2.4 ENGINE

The engine is free, subject to it being of not more than 6000cc capacity **for petrol engines or 7200cc for diesel engines inclusive of any turbo/supercharging, rotary and/or diesel correction factors**.

SR 3.1 PRODUCTION 4WD Production 4WD with engines not exceeding 6000cc for petrol engines or 7200cc for diesel engines.

SR 3.1.6 ENGINE

The original engine block may not be changed. The cylinder bore may be increased so as to accommodate up to the largest oversize piston nominated by the manufacturer (H) as being available for the model. Planing of the cylinder block is allowed.

Pistons, piston rings, gudgeon pins and their securing mechanisms are free. The original crankshaft and connecting rods must be retained. They may be modified only by the removal of metal or by chemical or heat treatment. **Engine capacity is limited to 6000cc capacity for petrol engines or 7200cc for diesel engines, inclusive of any turbo/supercharging, rotary and/or diesel correction factors**.

SR 3.2 EXTREME 4WD Highly-modified 4WD with engines not exceeding 6000cc for petrol engines or 7200cc for diesel engines.

SR 3.2.4 ENGINE

The engine is free, subject to it being of not more than 6000cc capacity **for petrol engines or 7200cc for diesel engines, inclusive of any turbo/supercharging, rotary and/or diesel correction factors**.



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