Power Rules – Electric Classes

**Motors & Batteries**

The following options define the electric classes that are available under DODC Rules.

**SPEC Class Motors:**

1) Schuur Speed 17.5 Extreme Stock SPEC Short Stack (#SUU540174) Black can & End bell Only. Signature Select Series is not legal. Ceramic bearings may be used but must be the same dimensions. The Schuur Speed motor must use the 12.5mm x 24.2mm rotor that comes standard in the Schuur Speed Motor (#SUU501126) Removal of Stator from can will result in immediate disqualification.

2) Novak Ballistic, Premium Ballistic, High RPM Ballistic and Vulcan Spec 17.5 motors only. Any parts standard to each design/make must be used respectively. Ceramic bearings may be used but must be the same dimensions as the original bearing. All Novak motors must use the 12.5mm (NOV5955) or 12.3mm (NOV5941) rotor. (*Novak Motors are no longer available but still legal.*)

Intermixing of manufacturer parts will not be allowed. No parts of motors may be modified, altered or removed in any way. All stock hardware must be used, I.E. no aluminum or titanium screws/bolts. It is not legal to unwind, rewind, unsolder, re-solder, re-epoxy, add epoxy or any other coating or material to any part of the stator. If the solder tabs are found to be tampered with you will be immediately disqualified. All motors are subject to disassembly and inspection at any given time during an event at the race director’s discretion.

**Spec Class Batteries:**

SPEC Batteries must use stock Deans or Star style plug for connection to ESC and battery leads cannot be shortened.

The following batteries are the only batteries legal for use in DODC SPEC Classes.

- Dynamite DYN9005EC Reaction 5000 2S 30C
- Duratrax Onyx 2S 7.4V 5000 25C Hard Case
- Fantom FAN26168D 5200 2S 50C
- SMC #52162-2S2P True Spec Extreme 5200 50C
- RC King 5200 2S 30C (*still legal but no longer available*)
- Duratrax Onyx 2S 7.4V 4000 25C Hard Case (*still legal but no longer available*)
17.5 Stock Classes:
Any Motor from the ROAR Approved **Stock/17.5 Spec** category and any ROAR approved 2S Hard Case LiPo battery are legal.

13.5 Stock Classes:
Any Motor from the ROAR Approved **Modified/13.5 Spec** category and any ROAR approved 2S Hard Case LiPo battery are legal.

Modified Classes:
Any motor from the ROAR Approved **Modified** or **Stock** category and any ROAR approved 2S Hard Case LiPo battery are legal. **Race organizers may impose a minimum turn limit at their discretion** ie: 6.5T, 8.5T, 10.5T etc.

General Motor and Battery Rules:
- Battery temperature may be checked with the following pre-race procedure. A control pack will be placed in the tech area for the purpose of monitoring the pack temperature. Checked batteries shall be **no more than 10° F above the temp of the control pack**.
- Motor temperature may be checked with the following pre-race procedure. A control motor will be placed in the tech area for the purpose of monitoring motor temperature. Checked motors shall be **no less than 10° F below the temp of the control motor**.
- All racers must take every precaution to ensure safe charging and discharging techniques with their batteries. This shall include but is not limited to, attentive monitoring of battery during charging and use of a LiPo sack or other LiPo safe container.
- To ensure safe charging methods are followed by all competitors, all batteries may be checked prior to each race to ensure battery voltage is a maximum of **8.44 volts or less**. If the battery reads 8.45 or more you do not race.
- Batteries must use a quick release hobby grade connector for connection to the ESC ie: Deans, Traxxas, or bullet connectors.
- No additional batteries are allowed in any class including those used to power receivers or cooling fans.

Speed Controls
The following options for Electronic Speed Control (ESC) rules are available under the DODC electric classes. When choosing an electric class of competition the ESC used for that class must be defined by one of the following three options.
• **Open Speed Control/Open Timing**: Any production ESC with an average street price of no more than $250.00 is legal in this class. There are no restrictions on timing profiles for these ESCs. Must be available through normal hobby distribution channels.

• **ROAR Approved Non-Timing ESCs (BLINKY MODE)**: Any Speed Control from the ROAR Approved Non-Timing ESC list with an average street price of no more than $250.00. ESCs in this class must be run in the mode specified on the ROAR page. [ROAR Non-Timing ESC List](#)

• **Spec Speed Control**: Any ESC or ESCs, may be designated as a Spec Speed Control for any given class that a track owner or race promoter chooses.

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### Power Rules – Gas Classes

**All classes**: Maximum fuel tank size is 75cc. No stinger modifications and no pipes with adjustable stingers or any moving parts are allowed.

**Limited**: O.S. Max 12TG and TG2 production motors only. Must be out of the box STOCK. No modifications allowed. Rotary or Slide carb version ok. Any glow plug may be used. Glow plug gasket/washers of any size are permitted but not required. Production headers and pipes only with max 6mm stinger opening. NO NARROWED FLYWHEELS ALLOWED.

**Open Nitro**: Any .12 cubic inch engine are legal. Un-modified .15 RTR engines may be used but must utilize stock pull-start or roto-start system. NO NARROWED FLYWHEELS ALLOWED.