

CAMS NSW SPEED EVENTS ELECTRIC / HYBRID VEHICLE POLICY



Application

This Policy applies to Event Organisers where electric or hybrid vehicles are accepted to compete. Entrants of electric or hybrid vehicles must have their vehicles compliant to the additional scrutineering requirements contained in this Policy.

PPE (Personal Protective Equipment)

Electric Protection Rubber (EPR) gloves must be issued to Scrutineering, Crash Rescue and Flag Posts if Electric or Hybrid vehicles are competing.

Scrutineering

The **Scrutineering Checklist for Electric/Hybrid Vehicles** as included in this Policy must be used with each Electric or Hybrid vehicle competing in addition to the Scrutineering Requirements contained in the Supplementary Regulations as far as they are applicable to the vehicle.

Response

The **5 step Electric Vehicle Response (EVR)** procedures included in this Policy are to be followed during any intervention.

Common Questions Asked About Electric Vehicles



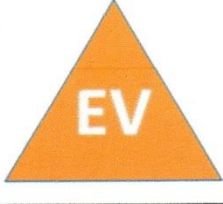


- **Is the car dangerous to touch?** The cars are not live. The high voltage parts are isolated and have more safety systems than a domestic electric supply socket. Precautions contained in this Policy including the use of protective gloves are simply to give the absolute protection.
- **What if I touch the car with my knee when I push it?** The car is not connected to the ground like a domestic outlet so to get a shock you must touch the car in two different places. With gloves on the chance of this is reduced. (There must be multiple faults in the car)
- **What happens if it rains?** The electrical components of the car are waterproof. If any water leakage is detected the vehicle shuts off. Rain water doesn't cause an issue for the gloves as fresh water is a poor conductor of electricity.
- **What if the car is damaged?** The batteries have all passed stringent crash tests and if a cable is damaged, the battery and electrical control systems automatically isolate.

Scrutineering Checklist Electric/Hybrid Vehicles (EV)



This checklist is to be completed in conjunction with the general requirements for Vehicle Scrutineering.

Vehicle make	Vehicle Model	Competition No.	Log Book/Reg No	Date
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Electric Vehicle Signage – shall be clearly visible as required and if applicable and fitted:

				
High Voltage (HV) Identifies HV components (may be on items in engine bay)	Emergency Stop Cut power for all systems (may be on the switch or isolation point)	Electric Vehicle (EV) Identifies as an EV 150mm sides (fitted near Comp No.)	Battery Isolator 12v Location of isolator to cut power for 12v systems	Fire Extinguisher Location of Fire Extinguisher activation point
			N/A Road Cars	N/A Road Cars
Signage acceptable:				

Electric Vehicle Systems – operation check

	Emergency Stop AND/OR Electric Drive/Battery isolation Operation should cut all vehicle power supply and disable drive. Location: Method of operation (i.e. pull lever, activate switch):	
	Fire Extinguishers Type: Location:	

Vehicle Status indicator – Electric Drive powered and/or enabled

Detail location and method of electric drive power and status indicator:

Component condition

Vehicle Pass	Represent	Date	Time
Scrutineer		Licence No.	



ELECTRIC VEHICLE RESPONSE (EVR)

5 Step Process

Don't put yourself in danger! Please follow this 5 step Electric Vehicle Response (EVR) when attending to an Electric Vehicle. It does not matter if the driver is uninjured or otherwise.

1 – APPROACH

Do not touch any electric vehicle unless wearing Electric Protection Rubber (EPR) gloves then you should approach the car and walk towards the cockpit location.

2 – CHECK STATUS

Check the Status Light. *This may be the factory system indicator for a production car and not a Green or Red light as below.*

Green: Approach the car as you would normally

Red or Off: Signal to the Sector Marshall or Communicator in your area so that race Control is advised. Approach from the rear or side in case the electric drive is still turned on. Firmly press the Emergency Stop Button or switch off the 12V Isolation Switch. This action should turn the light to **Green** to indicate that the vehicles high and low voltage systems have been shut down. Proceed to “check the light status” and only if Green proceed as you would normally.

Car stuck in gear: where applicable, press the neutral switch marked “N” either in the cockpit or on top of the survival cell.

3 – ACT

After following the EVR steps above take the normal action to rectify/manage the situation.

4 – COLLECT

- When collecting debris ensure that you carefully pick up and handle any orange or yellow-triangle marked components with your EPR gloves on (they should always be on!)
- Keep the component away from your body (and others) and place it in the cockpit of the car it came from so that it will be returned to the team.

5 – REPORT

Pass on the information relating to the electrical status of the car, i.e status lights to other officials. This is especially important if the status changes during the intervention.