

# WRX Club, WRX Championship

## Technical Regulations

All vehicles competing in this series shall comply with all regulations listed in this document.

For all intents and purposes, "shall" is to be defined as mandatory.

### 1. Vehicle Body Type

- 1.1. All vehicles shall be recognisable as Subaru Impreza WRX / STi or Subaru WRX / STi silhouette.

### 2. Coachwork

- 2.1. All vehicles shall retain all "Subaru" (referred to here after as "OEM") coachwork including but not limited to doors, guards, roof, boot, bumpers, spoilers, bonnet scoops, etc.
- 2.2. Use of non OEM / aftermarket "aero" is strictly forbidden.
- 2.3. If upgrading standard Subaru Impreza vehicles to Impreza WRX / STi silhouette, panels may be replaced with OEM panels off applicable WRX / STi vehicles to comply with Article 1.

### 3. Windscreen and mirrors

- 3.1. Windscreens, front and rear, shall be of OEM specification.
- 3.2. All mirrors, 1 centrally mounted internal rear view and 2 external wing mirrors, shall remain on vehicle in OEM position and be fully functional as intended by OEM.

### 4. Vehicle Dimensions

- 4.1. **Wheel track**
  - 4.1.1. Vehicles shall have a track width of not more than 1745mm measured from outside of tyres as per measuring jig.
- 4.2. **Ride Height**
  - 4.2.1. Minimum ride height shall be 80 mm, measured from lowest point of front sub frame / braces to ground.
- 4.3. **Race Weight**
  - 4.3.1. Combined race weight of vehicle, including driver, at completion of each race shall be not less than 1500 KG.
  - 4.3.2. Where required, the club approved ballast cage shall be installed.

### 5. Externally Openable Panels

- 5.1. **Bonnet and Boot**
  - 5.1.1. Bonnet shall be secured with two (2) pins.
  - 5.1.2. Boot / Wagon Tailgate shall be secured in such a way to allow opening from outside the vehicle without the use of keys or tools.
- 5.2. Doors intended for pedestrian access shall remain openable by means of OEM installed external handles.

### 6. Engine

- 6.1. **Capacity**
  - 6.1.1. Engines permitted are of "EJ20" and "EJ25" designation as specified on cylinder block.
  - 6.1.2. Engines shall remain within OEM rebuild tolerances up to, and including oversize piston 0.50mm.
- 6.2. **Induction**
  - 6.2.1. Intake manifold shall be selected from OEM supplied units.
  - 6.2.2. Throttle body shall be selected from OEM supplied units.
  - 6.2.3. Deletion of Tumble Generators is permitted on applicable models.
- 6.3. **Intercooler**
  - 6.3.1. Intercoolers shall be selected from OEM supplied top mount units.
  - 6.3.2. Use of non OEM / aftermarket intercoolers is strictly forbidden.
- 6.4. **Turbo Charger**
  - 6.4.1. Club issued, sealed and serialised turbo charger shall be installed.
  - 6.4.2. Club issued, sealed and serialised pressure relief valve shall be installed.

### 7. Transmission

- 7.1. Transmission shall be selected from OEM five (5) or six (6) speed, synchromesh units, utilising "H" pattern shifting mechanism.
- 7.2. Sequentially shifted manual transmission units are strictly forbidden.
- 7.3. Applications may be made to the Director of Motorsport for the use of automatic transmissions.

## 8. Braking System

- 8.1. Master Cylinder and associated vacuum booster shall be selected from OEM supplied units.
- 8.2. Calipers shall be selected from OEM supplied units up to a maximum of 4 pot Brembo callipers fitted to STi vehicles.
- 8.3. Disc Rotors shall be of one (1) piece construction, manufactured from ferrous materials and be no greater than 326 mm in diameter.

## 9. Wheels / Rims

- 9.1. Wheels / Rims shall be selected from OEM supplied units to accommodate tyres as specified in Article 10.1

## 10. Tyres

- 10.1. Club issued controlled tyres shall be utilised.

## 11. Suspension

- 11.1. Struts assemblies shall be selected from OEM supplied units or that available to purchase from BC Coilovers.

## 12. Interior

- 12.1. All OEM upholstery including, bonnet lining, carpets, all seats, rear door cards, parcel shelf, roof lining and boot linings shall be removed.
- 12.2. Modifications to dash board are permitted to allow installation of safety cage as specified in Article 15.1 but shall remain in OEM intended position.
- 12.3. OEM heater box and fan shall remain intact and fully operational.
- 12.4. Removal of Air Conditioning system components is permitted.
- 12.5. Front door cards shall remain intact to afford operation of internal door handles.
- 12.6. ALL Airbags shall be removed.

## 13. Electrical

- 13.1. Battery and its location are free but shall be safely and securely mounted. It must be adequately covered so as to prevent short circuits and leakage, in any position.
- 13.2. Isolation Switch shall be installed in such a position to be operable by driver whilst secured in drivers' seat with safety belt fitted and also be operable by way of external rip cord fitted to the passenger side below the windscreen, identified by appropriate stickers.

## 14. Lighting

- 14.1. All OEM installed external lighting shall remain fully operational.

## 15. Safety

- 15.1. As a minimum, a half safety cage constructed to CAMS specification shall be installed.
- 15.2. Seat, Seat rails and a minimum of five (5) point safety harness shall be installed.
- 15.3. Drivers' race suit shall be of "RPM" brand and "PODIUM" Style in a colour of your choice.
- 15.4. Drivers' race suit shall be provided to the club to have all embroidery completed.
- 15.5. Driver Apparel, i.e. Helmets, gloves, boots, etc. complying with Schedule D – Apparel, from the CAMS manual shall be worn.
- 15.6. In addition to the fire extinguisher required for speed events as defined in Schedule H – Fire Extinguishers, a foam extinguisher of not less than 2.4l shall be installed inside the cabin, within 300mm of an externally openable door.
- 15.7. Driver's side window net shall be installed to vehicles with 6 point roll cage.
- 15.8. Drivers Hans device is strongly recommended .

## 16. Fuel

- 16.1. Fuel with a specification not exceeding that of pump available 98 RON shall be used.
- 16.2. Additives that have been produced with the intended or implied purpose of increasing the octane rating, oxygen content or specific heat content of the fuel, are strictly prohibited.
- 16.3. Testing of fuel used by competitors, may, at any time, be conducted to ensure compliance with the fuel requirements.
- 16.4. Fuel shall be drawn from the vehicles OEM fuel tank for the purpose of engine operation.

## 17. Tow / Recovery Points

- 17.1. Soft tow points shall be installed on the front and rear of the vehicle with the addition of appropriate sticker identification.

## 18. Vehicle Markings

- 18.1. All club sponsorship stickers shall be fitted in instructed locations without question.

## 19. Timing / Dorian

- 19.1. Provision shall be made to allow the installation of a Dorian styled timing device in line with the "B" pillar, on the passenger side of the vehicle.

## 20. On board "point of view" Cameras

- 20.1. An on board "point of view" camera specified by the club shall be installed in a position as close as practicable to the centre of windscreen rear view mirror in a forward facing direction and must be hard wired and shall automatically

commence recording once the ignition is switched on. Applications may be made to the Director of Motorsport for the installation of additional cameras.