

# AROSC-HPD TECH INSPECTION

For: Race Events

General Instructions: **Each participant is solely responsible for the safe condition of the car to be driven in the event and for their personal safety equipment.** Participants must have their vehicle and safety equipment inspected no less than one week prior to the event. This inspection must be performed by a qualified individual, including their self, who is familiar with the make and model of car and personal safety equipment. At the time of inspection, the participant must sign the completed Inspection Sheet. The participant must present the signed sheet at on-site registration in order to obtain the registration packet. If there is more than one driver for this car, complete and present one form for each driver.

**PLEASE PRINT LEGIBLY!**

Driver Name: \_\_\_\_\_

Event: \_\_\_\_\_ Date: \_\_\_\_\_

Car Make: \_\_\_\_\_ Model: \_\_\_\_\_ Year: \_\_\_\_\_ Color: \_\_\_\_\_

Pre-event technical inspection should include at a minimum all the following items. Additional items should be included as deemed necessary to ensure the safe condition of this vehicle.

**Please indicate with an "X" those items listed below which have been deemed acceptable:**

\_\_\_\_\_ **General:** No excessive rust or corrosion, all loose objects removed from the car's interior, seat and seat back securely mounted (see below), windshield, windows and rearview mirrors in sound and serviceable condition.

\_\_\_\_\_ **Engine:** No fuel or coolant leaks, catch tanks on vented systems, correct coolant level, hoses and drive belts in good condition, throttle linkage operates smoothly, battery securely mounted.

\_\_\_\_\_ **Drive Train:** Engine, transmission and rear end mounts, boots and seals in show no signs of deterioration, excessive looseness or leaking.

\_\_\_\_\_ **Exhaust:** Securely mounted and no leaks.

\_\_\_\_\_ **Suspension:** Mounting points in good condition and all hardware properly secured, no excessive play or binding in wheel bearings, shocks functioning properly.

\_\_\_\_\_ **Steering:** No excessive play or binding, power steering fluid at proper level and in good condition.

\_\_\_\_\_ **Brakes:** Fluid level correct, in good condition (date of last fluid change: \_\_\_\_\_) and no leaks, sufficient pad/shoe thickness, no cracked or heavily scored rotors and drums, brake lights functioning. Master cylinder does not exhibit bleed down under constant pressure and the car brakes straight when peddle is applied.

\_\_\_\_\_ **Wheels:** No cracked or bent rims, all lug nuts/bolts present and properly torqued.

\_\_\_\_\_ **Tires:** No cracks, blisters or bulges, no exposed cord or steel belt material, inflated to proper pressure.

\_\_\_\_\_ **Rollover Protection:** Roll cages are required in all cars (some exceptions apply, see below).

\_\_\_\_\_ **Fire System:** 2.5 lb. automotive BC fire extinguisher, easily accessible to the driver and properly charged.

\_\_\_\_\_ **Window Net/Arm Restraints:** A drivers side window net (latch at the top) or arm restraints are required in closed cars. Open car drivers must wear arm restraints.

\_\_\_\_\_ **Driver Restraint System:** SFI or FIA rated 5 or 6-point harnesses (Date: \_\_\_\_\_ & Cert: \_\_\_\_\_) in good working and functional condition (see below). Harnesses mounted according to manufacturer specifications and in manner so as to minimize injury.

\_\_\_\_\_ **Clothing:** Nomex<sup>®</sup> (or equivalent) fire suits, head sock, gloves and socks, fire resistant shoes, eye protection (see below).

\_\_\_\_\_ **Helmet:** SNELL SA2000 or newer (Cert: \_\_\_\_\_), full coverage helmet in good condition.

**Inspected By (print & sign):** \_\_\_\_\_ **Date:** \_\_\_\_\_

## **Participant Certification**

I hereby certify that the above vehicle has been carefully examined by a qualified technician, including myself, and that all of the foregoing items have been inspected. I understand that the safe condition and operation of this vehicle is entirely my responsibility and that AROSC, AROC, its officers, instructors, staff, and facility providers cannot be held liable or responsible for any vehicle malfunctions, damage or problems which may occur in connection with the operation of this vehicle prior to, during or subsequent to this event.

Name (print): \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_

# Comments

## (Race Cars)

### Seat

1. One piece race seat, FIA rated and within its expiration date. If it is not within date, it must have a seat back brace installed.
2. A single-piece non-FIA rated seat may be used in conjunction with a seatback brace as long as it is not a “fabric-over-tubing” style of seat.

### Brakes

1. Pad thickness should at least ¼” for a two day event and 3/16” for a one day event. Thicker would be better and performance pads are recommended.
2. Fluid should be colorless unless it contained a dye when it was new, Ate Blue for example. If your fluid is golden-brown or darker it should be changed.

### Wheels

1. Lug nut/bolt torque should be as per the manufacturer specification.
2. There should be no missing lug nuts/bolts.
3. Steel valve stems are recommended.
4. Proper inflation pressure depends on the car and tire but should be at or slightly above the manufacturer’s recommendation.
5. Wire wheels are not allowed.

### Rollover Protection (all cars)

1. Acceptable cages are those which would be accepted for race group participation by SCCA, NASA, PCA, POC or BMWCCA.
2. Four-point roll bars with cross bracing are acceptable in cars which have raced with AROSC using that type of roll over protection during the past 2 years. These roll bars will be considered acceptable until 2012 but after that a full 6-point cage will required.
3. Roll bar padding (SFI 45.2) should be installed on the cage anywhere that the driver’s helmet might impact the cage.

### Driver Restraint

1. Acceptable driver restraint/harnesses are of the 5- or 6-point type (must include an antisubmarine strap). They must be current and have current SFI 16.1 or SFI 16.5 certifications tags, or current FIA 8853/98 (C-xxx.T/98 or D-xxx.T/98) homologation numbers attached.
3. Harnesses which appear worn or dirty are unacceptable.

### Clothing

1. Driving Suit carrying an SFI 3.2A/3 rating or higher (3.2A/5, 3.2A/10, 3.2A/15, or 3.2A/20) or FIA 8856-2000 rating. Alternatively, a suit carrying an SFI 3.2A/1 rating may be worn in conjunction with long underwear which carries an SFI 3.3 or FIA 8856-2000 approval rating. A one piece suit is very highly recommended.
2. Gloves, socks and shoes must carry an SFI 3.3/5 or higher rating.
3. Drivers with long hair or facial hair must wear an SFI 3.3/5 rated head sock.
4. All certification tags must be present and readable.
5. Eye protection may be integrated into the helmet but glasses are acceptable.

### Helmet

1. Starting in the second half of 2010, SNELL SA2005 or newer helmets will be required.
2. The SNELL rating sticker must be present and legible.
3. If the helmet shows any signs of impact, it should be returned to the manufacturer for recertification.
4. Helmets older than 5 years are not recommended.