

# AROSC-HPD TECH INSPECTION SHEET

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.

Driver Name: \_\_\_\_\_ Track: \_\_\_\_\_ Date: \_\_\_\_\_

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

| DE/TT            | RACE | Please indicate with an "X" those items listed below which have been deemed acceptable:   |
|------------------|------|---|
|                  |      | <b>General:</b> No excessive rust or corrosion, all loose objects removed from the car's interior, seat and seat back securely mounted, windshield, windows and rearview mirrors in sound and serviceable condition.  |
|                  |      | <b>Engine:</b> 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.   |
|                  |      | <b>Drive Train:</b> Engine, transmission and rear end mounts, boots and seals in show no signs of deterioration, excessive looseness or leaking.  |
|                  |      | <b>Exhaust:</b> Securely mounted and no leaks.  |
|                  |      | <b>Suspension:</b> Mounting points in good condition and all hardware properly secured, no excessive play or binding in wheel bearings, shocks functioning properly.  |
|                  |      | <b>Steering:</b> No excessive play or binding, power steering fluid at proper level and in good condition.  |
|                  |      | <b>Brakes:</b> 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 pedal is applied. |
|                  |      | <b>Wheels:</b> No cracked or bent rims, all lug nuts/bolts present and properly torqued.  |
|                  |      | <b>Tires:</b> No cracks, blisters or bulges, no exposed cord or steel belt material, inflated to proper pressure.   |
|                  |      | <b>Rollover Protection:</b> Functional roll bars are required in all open cars.   |
|                  |      | <b>Driver Restraint System:</b> Factory 3-point seat belts (2000 and newer, unmodified cars only) or SFI or FIA rated 5- or 6-point harnesses (Date: _____ & Cert: _____) in good working and functional condition. Aftermarket harnesses mounted according to manufacturer specifications and in manner so as to minimize injury.    |
|                  |      | <b>Clothing:</b> Long sleeved shirt, long pants, socks and gloves, all made of natural fiber or fire resistant (NOMEX or equivalent) fabric, eye protection (may be incorporated into helmet).  |
|                  |      | <b>Helmet:</b> SNELL SA or M 2005 or newer (Cert: _____) rated helmet in good condition. DOT helmets are not allowed.   |
| <b>RACE ONLY</b> |      | <b>Rollover Protection:</b> Roll cages are required in all cars (some exceptions apply, see Notes)  |
|                  |      | <b>Fire System:</b> 2.5 lb. automotive BC fire extinguisher, easily accessible to driver and properly charged.  |
|                  |      | <b>Window Net/Arm Restraints:</b> A drivers side window net (latch at the top) or arm restraints are required in closed cars. Open car drivers must wear arm restraints.  |
|                  |      | <b>Driver Restraint System:</b> 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.  |
|                  |      | <b>Clothing:</b> Nomex® (or equivalent) fire suits, head sock, gloves and socks, fire resistant shoes, eye protection (see below).  |
|                  |      | <b>Helmet:</b> SNELL SA2005 or newer (Cert: _____), full coverage helmet in good condition.   |

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

**Participant Certification**

I hereby certify that the above vehicle has been carefully examined by a qualified technician, and that all of the foregoing items have been thoroughly inspected. I understand that the safe condition and operation of this vehicle is entirely my responsibility and that AROSC, AROC, its officers, instructors, staff, anyone working the event, any event sponsors 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. I hereby release all of the above referenced parties from any and all responsibility and/or liability for damage to my car and/or equipment, theft of the same, and from any liability relating to injury to me or anyone accompanying me, whether adult or minor, which may result from my presence at this event as a spectator, worker, or participant.

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

# Notes and Comments

## (DE & TT)

### Brakes

1. Pad thickness should at least 1/4" 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 (open/convertible cars)

1. Porsche 996 and 997 cabriolets, 914s and Targas can use factory rollover protection as long as they are unmodified (see below) and the top is up while on track.
2. All other cars need a proper 4-point braced roll bar that passes the 2" broom stick test. If you don't know what this test is, you should get someone else to tech your car.

### Driver Restraint

1. Cars manufactured from 2000 to the present, which have not been modified (see below), may run with the factory 3-point seat belts. Harnesses (see below), however, are highly recommended.
2. Cars manufactured prior to 2000 or cars that have been modified must have properly mounted harnesses (see below).
3. Belts/harnesses which appear old, worn or dirty are unacceptable.

### Clothing

1. Synthetic fiber clothing is not acceptable.
2. Non-synthetic garden gloves are acceptable hand protection.
3. Running shoes are acceptable but lug-soled hiking shoes are not.
4. Glasses or sun glasses are acceptable eye protection.
5. SFI or FIA rated fire resistant clothing is recommended.

### Helmet

1. A SNELL 2005 or newer helmet is 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.

### Car Numbers

1. Numbers should be white on dark cars, including red cars and black on light cars.
2. Novice TT drivers also need an "X" on the rear of the car.
3. Numbers should be at least 8" high and should be of a simple, easily readable font.

## Definitions

**Unmodified Car** – A car which has not been modified in order to increase horse power above the original/stock level and which has street tires (see below). Modifications made to the intake system in front of the carburetor(s) or air flow measurement device are excluded, as are modifications to the exhaust system which are made after the exhaust manifold. Suspension adjustments are acceptable as long as they stay within the range provided by the original manufacturer. Factory or purpose-built race cars are considered "modified".

**Street Tires** – DOT tires with a wear index of 200 or higher. Tires advertised as "R-compound" or "track" tires are **not** street tires.

**Harnesses** – Acceptable 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.

# Notes and 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 1/4” 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 that 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. A SNELL SA2005 or newer helmet is 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.

### Car Numbers

1. Numbers should be white on dark cars, including red cars and black on light cars.
2. Novice Race drivers also need an “X” on the rear of the car.
3. Numbers should be at least 8” high and should be of a simple, easily readable font.