



OREGON REGION PCA
2012 High Performance Driver Education
Vehicle Tech Inspection

A vehicle inspection is required to participate in our HPDE events

Revised 3/11/11
Liz Saar

Instructions:

- 1) Print all 5 pages of this form
- 2) Complete the Owner & Vehicle Information section
- 3) **Sign and Date**
- 4) Take this form to your repair shop or dealer for an inspection
- 5) Bring the completed form (all 5 pages) to your First HPDE day of the season

I understand that I am responsible for the suitability, condition, and safe operation of my vehicle at Oregon Region PCA Driver Education events. I am fully liable for this vehicle's condition and operation, and hereby release, defend, indemnify and hold harmless the Technical Inspector, Inspector's affiliated shop or business (if any), Oregon Region PCA and any and all of its Officers, Directors, Event Chairs, driving event volunteers, driving event entrants, members, participants, and Portland International Raceway from any liability in Oregon Region PCA organized Driver Education events. I further agree to release, waive, discharge, and covenant not to sue any of the aforementioned parties.

Owner Signature: _____ **Date:** _____

Owner & Vehicle Information

Name: _____ Year: _____
Mailing Address (street/city/state/zip): _____ Make: _____
_____ Model: _____
_____ Color: _____
Vehicle VIN: _____

Inspection Information

This form is a guideline for the owner. Many of the areas that this covers are areas that go unattended for long periods of time. This inspection is intended to notify you of some of the possible deficient maintenance conditions and ensure that you remedy them before you join us. It is by no means a complete list of possible issues. Having this inspection done does not guarantee that the vehicle will stand up to the rigors of an HPDE event.

Inspector: *Please examine the vehicle with respect to the following Oregon Region PCA's inspection guidelines, and select either a Pass, Fail, or N/A (not applicable to this vehicle) grade based on your judgment of the vehicle versus Oregon Region PCA's description. All items on the following four pages must marked pass, fail or N/A. This vehicle will be used at high speeds on a closed circuit course and will be subject to high forces, heat, and other mechanical stresses. Note any deficiencies to the owner.*

SHOP NAME: _____

INSPECTED BY: _____

DATE: _____

Inspector Signature: _____

Overall Condition:

PASS **FAIL**

Engine

- 1. No oil leaks or drips from oil lines, engine, or reservoirs. Oil filter tight. Wetness OK as long as there is no active dripping or grease buildup.
- 2. No coolant fluid leaks from lines or reservoirs. Cap tight.
- 3. Belts properly adjusted and in good condition.
- 4. Throttle linkage operates freely with strong return springs intact (except e-throttle cars).
- 5. Battery mounted securely with metal or original hardware, in good condition and not leaking. All caps must be intact and secure.
- 6. Engine and transmission mounts in good condition.

Recent developments in forced induction have resulted in cars being modified to carry Methanol. **We do not allow methanol at our events.** The safety measures required to deal with a methanol emergency are not supported by our program.

Notes/Comments

Brakes

- 7. Hydraulic fluid reservoir intact with no leaks, cap tight, fluid clear (except specifically colored fluids) and full. Fluid should be bled and replaced frequently. Do not mix silicone fluid with other types. Silicone fluid is not recommended for street cars.
- 8. Brake lines intact under car and at wheels. Flexible lines attached correctly to prevent binding.
- 9. Pads/shoes of sufficient depth – 50% or more material remaining is recommended.
- 10. Rotors/drums in good condition. Adequate thickness, no cracks (minor spider cracks around holes OK), no warpage/runout.

Notes/Comments

Pass N/A Fail

Suspension & Undercarriage

- | | | | |
|---|--------------------------|--------------------------|--------------------------|
| 11. Front and rear wheel bearings adjusted for correct play. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Suspension arms attached securely and undamaged. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Ball joints and steering tie rods in good condition with minimal play and no leakage evident. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Anti-Roll bars attached securely and mounted properly. Droplinks aligned properly and in good condition. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Shock absorbers in good operating condition with no leaks and securely attached. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. No rust near structural members or attachment points, attachment points on body strong and secure. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Exhaust system intact, no leaks, hung securely, does not touch bodywork when moved by hand. Mufflers required for all events; must be installed securely and without leaks. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. Half-shafts & CV boots secure with no leaks or tears. If applicable, Guibo and center support bearing in good condition. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Notes/Comments

Steering

- | | | | |
|--|--------------------------|--------------------------|--------------------------|
| 19. Power Steering reservoir intact, filled and with no leaks. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. Steering rack & boots in good operating condition with no fluid leaks. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 21. Steering wheel operates freely and is securely attached. Adjustable columns must have functioning locking mechanism. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Notes/Comments

Interior

- 22. All seats securely attached to floor at all possible points; front seatbacks intact and securely attached to base; seatback locks functional; headrests as delivered from the manufacturer and adjusted properly.
- 23. Manufacturer installed seat belts (must be three point) for front seat positions, in excellent condition with no fraying or brittleness, securely attached and in correct working order. Shoulder adjustment mechanism working properly and secure.
NOTE: See section below for aftermarket occupant restraint system requirements
- 24. Pedals operate freely and return to rest position strongly. Brake pedal firm.
- 25. Sufficient roll-over protection – Open cars: Any make of car delivered with factory-installed roll over protection meets the minimum standards for PCA DE events. In these cars the soft-top must be in the up position or the hard top installed. If a car does not have factory installed roll over protection, a structural roll bar must be installed, which meets the “broomstick” rule (the driver’s helmeted head is below a bar placed on top of the rollbar and windshield).
- 26. Optional fire extinguisher mounted securely using metal fasteners (no plastic brackets) within reach of driver.
- 27. Storage compartment doors securely attached and latch properly.
- 28. Rearview mirror installed securely and usable Notes/Comments
- 29. Aftermarket restraint system installed per manufacturers specifications and the following requirements:

Aftermarket (non-OEM) Restraint Equipment installation requirements for Harness Systems

If the participant chooses to install a multi-point harness system, several changes to the vehicle must be made to create a safe occupant restraint system. Harnesses must include an antisubmarine strap and be mounted in an approved manner consistent the manufacturer’s instructions. The Harness system must be used in conjunction with a seat which has the supplied routing holes for the shoulder and anti-submarine belts. All pieces of the restraint system must be installed in accordance with the manufacturer’s instructions. The shoulder straps should be mounted at ~90 degrees to the axis of your spine or at most 40 degrees down from horizontal. Harness bars are an acceptable way to ensure that the proper angle is achieved. When a HANS device is used, the restraints shall be installed in compliance with the device manufacturer’s recommendations. Because the addition of the harness system means that the occupants are fastened upright in the vehicle, a properly padded roll bar or roll cage is strongly encouraged to complete the SYSTEM.

- 1. Restraint systems shall bear a dated SFI Spec label. The certification indicated by this label shall expire on December 31st of the 5th year after the date of manufacture as indicated by the label. If, for example, the manufacture date is 2010, the 5th year after the date of manufacture is 2015.
- 2. Restraint systems homologated to FIA specifications will have a label containing the type of harness designation and date of expiration with is the last day of the year marked. All straps in this FIA restraint system will have these labels
- 3. If a restraint system has more than one type of certification label, the label with the latest expiration may be used

Note: The 4 point harness systems are not allowed in a Porsche AG manufactured vehicle because of the integrated headrest supplied by the factory. In addition to the standard SFI and/or FIA approved 5 or 6 point system, the standard will allow a 4 point system in NON-PORSCHEs that meet the following requirements:

- 1. Meet the Federal Motor Vehicle Safety Standard 209
- 2. Attaches to the factory seat belt mounting points
- 3. Each belt is designed to work in a specific vehicle and that vehicle tag must be attached to the belt system. An example of a system that meets the above criteria is the Schroth Quick Fit system.

Notes/Comments

Exterior

- | | | | |
|--|--------------------------|--------------------------|--------------------------|
| 30. All glass securely attached and free of cracks (includes headlights). Minor divots and stars OK if less than 1 inch diameter. Lexan or Plexiglass windows OK. Driver's window must be openable. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 31. All doors securely latch and operate both inside and outside the car. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 32. Gas cap in good working condition and without leakage of fluid or vapor. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 33. Fuel supply & return lines securely and safely attached to vehicle. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 34. Tires in good condition with no sidewall bubbles, cracking, cord or belts showing. No leaks or temporary repairs. DOT-approved tires must have visible tread depth. Vehicle must have same tire brand and type at all corners and identical tires on each axle. Tires must be speed-rated for the maximum vehicle speed capability (generally VR or ZR). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 35. Wheels in excellent condition with no bends, cracks or damage. Valves attached securely and with caps. Valve braces attached correctly and securely (if applicable). | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 36. Wheel bolts or lugs have engagement depth equal to at least the fastener's diameter. Fasteners torqued to manufacturer's recommended specification (see vehicle manual). All fasteners of same type per wheel. Wheel studs cannot protrude past the wheels/tires. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 37. Body modifications securely attached with no dangerous edges or points visible. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 38. No or very minimal visible body rust. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 39. Mirror(s) securely attached. Street cars must have at least 1 exterior mirror on driver side; non-street cars need only interior mirror. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 40. All existing brake light(s) functional. Non-street cars need at least 1 brake light. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 41. Windshield wipers functional. Optional for non-street cars which will not be operated in the rain. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Notes/Comments