

Scrutineers' Check List

Northern
Phoenix
Trials Car
Club Ltd



1. **Trials Car Log Books** – each competing car must be accompanied with its log book.
2. **Check any outstanding defects** from previous trials have been corrected.
3. **Sign-off corrected items** in car log book and scrutineers' car defects log.

Working from rear of car

4. **Ballast** – Visual check to assess security. Advise driver ballast must not be varied – throughout the event - 50 penalty points per offence - MSA 'Blue Book' 2015, Page 352, Section T – Trials, para 7.5n.
5. **Differential Test** – The objective is to check that each individual rear wheel can be stopped separately. In the event the car jumps off the rollers, the differential is failed. The test may be repeated and if successful the differential test is passed. In the event the car still jumps off the rollers then the car is failed and the Scrutineer must report the matter to the Clerk of Course and Secretary of the Meeting.
6. **Drive off the rollers – Front brake test** - both front brakes must be seen to be working to stop the car.
7. **Battery Isolator Test** - With the engine still running turn the battery isolator switch to the off position. The switch should be mounted on the rear of the car, in an accessible position and marked accordingly. The engine must stop immediately. If running on occurs this may be due to an alternator is fitted without the correct master switch isolation of the ignition.
8. **Security checks of the battery** – There should not be any electrolyte leakage from the battery, and the positive terminal must be insulated. The battery must be securely fastened down.
9. **Security of the fuel tank** [including gas cylinders]. Tank or cylinder must be fastened down. No fuel or gas leaks allowable. Visual check of fuel pipes where possible. Check operation of gas solenoid(s) where applicable.
10. **Visual check of suspension** components and fasteners. Rocking or bouncing of the car is a good indication of the condition of the rear suspension. Rear detachable seats must be secured. A look under the rear of the car, –visual check lower suspension fasteners and fittings.
11. **Brake pipe visual checks** – fluid leaks, rust, kinks, worn cracked flexible pipes etc.
12. **Rear Wheel Nuts** – rock rear wheels checking for loose wheel nuts.

Cockpit of car with bonnet removed

13. **Rear brake levers test** – pull on both levers make sure they pull up hard. Check fluid levels in reservoirs.
14. **Front brake pedal test** – press the pedal until hard, check fluid level in reservoir.
15. **Accelerator pedal** – check linkage between pedal and carburetor. Check closing springs of carburetor are in place and press pedal to test they operate correctly.
16. **Engine compartment checks** – visually look for fuel and coolant leaks on pipes and fittings that any moving or rotating engine parts are shielded or cannot come in contact with pipes and electrical wiring. Check there are no wires or pipes dangling below car [except open ended breather and radiator blow-off pipes. No coolant header tanks or fuel pumps should be mounted in a position where a leak could spill into the cockpit.
17. **Other checks** – radiator and cooling fan security, visual check of coolant pipes for leaks, chafing or cracking.

Front of car

18. **Check of front suspension** – components and fasteners – bouncing car will indicate condition.
19. **Check of steering linkages** – driver moves the steering wheel while scrutineer checks movement. Rock wheel and check for kingpin wear.
20. **Front wheel check** – run finger round spokes [both sides of the wheel] this will show up any loose spokes by a dull ring or rattling sound.

General

21. **Bodywork check** – a visual check of mudguards and general condition of bodywork – loose / sharp panels etc., can be made whilst working round the vehicle.

Recording and QA Checks

22. **Record reportable defects** – enter defects in Scrutineers' Car Defects Log **and** Car's Log Book. Serious defects to be reported to Clerk of Course for decision as to whether the car may compete or not.
23. **Apply PASS Sticker to car's competitor number card. (Marshals to check valid Pass Sticker displayed on start sections.)**

NOTE: Random post-scrutineering car inspections will be undertaken periodically for quality assurance purposes and to identify any training needs.

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