

REGULATION CHANGES FOR CONSULTATION

Committee:	Cross Country Committee
Date of Meeting:	14 th of February 2024
Closing date for Consultation:	12 th of April 2024
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Section P – Cross Country

Proposed Regulation

New Subheading: Wheels & Steering

56.6.1. Steering provided by hydraulic operation is permitted in Challenge Special and Competitive Safari (Inc. Competitive Safari Plus) Events only. Hydraulic systems must comply with the Vehicle Technical Requirements published by the ASN.

58.4.3. ~~Steering provided by hydraulic or other method of operation (i.e. not by a direct mechanical link) is permitted. Hydraulic systems may not exceed an operating pressure of 150bar.~~ Deleted.

Date of Implementation: 19 June 2024

Reason: This proposal forms the outcome of the Hydraulic Steering Working Group that was established as part of the actions from the Cross Country Discipline Committee meeting that sat on the 14th of February.

The reason for this proposal is to allow Vehicles with hydraulically operated steering systems to compete in Challenge Special, Competitive Safari and Competitive Safari Plus events, provided the steering system meets the requirements set out in the Vehicle Technical Requirements that will be published by Motorsport UK to assist Scrutineers and Competitors.

P56.6.1 Cross Country Hydraulic Steering Technical Requirements & Guidance

Wheels & Steering

56.6.1. Steering provided by hydraulic operation is permitted in Challenge Special and Competitive Safari (Inc. Competitive Safari Plus) Events only. Hydraulic systems must be in compliance with the Technical Requirements published by the ASN.

Technical Requirements for Hydraulically Powered Steering System

- (a) Must not exceed an operating pressure of 150bar.
- (b) The Vehicle must be able to be steered with the engine off and all electrical circuits switched off.
- (c) Orbital Valves must be of the Manual Steering Check Valve Type.
- (d) Steering systems must be either a double-ended cylinder or double single-ended cylinders.
- (e) A single single-ended cylinder is not permitted.
- (f) Braking assist systems must be independent from the steering system.
- (g) Hydraulic hoses under pressure (not return to filter/cooler/reservoir/feed to pump) must be rated and marked at 300bar (or PSI equivalent).
- (h) Hose fittings must be of the crimped type (i.e. not screw together fittings).
- (i) There must be anti-burst protection from any hydraulic systems within the driver's compartment.
- (j) Hydraulic hoses must be secured in order to be minimise the risk of damage.
- (k) Hydraulic hoses must be inspected for condition to confirm nil degradation.

Guidance for Scrutineers & Other Senior Officials

- (a) The Vehicle must be able to be steered with the engine off.
- (b) The Driver must demonstrate this at scrutineering by turning the steering wheel of the Vehicle when stationary with the engine off and all electrical circuits switched off.
- (c) The steering must be able to be operated by the driver with no abnormal difficulty, turning the steering wheel in both directions, showing the wheels changing direction.