# Morgan Challenge Technical Regulations 2024

| Class 3 | | 215 Mean BHP per Tonne | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Specification | Specification | | Specification | | | | | | | | | | |
| Para | Appendix 1 | C | R | | D | | | | | | | | | | |
| 5.2 | Permitted - Only If it shows "√"<br>Prohibited - If it shows "X" | 8 Cyl | 6Cyl | +4 SS (9) | Moss 4 Spd | Rover 4 Spd | Rover 5 Spd | X Flo (2) | Fiat (3) | M/T (4) | TR (5) | Zetec (6) | Zetec (7) | Sigma (8) | Dura (9) |
| 5.2 | Maximum engine capacities | 4000 | 2999 | 2000 | 3612 | 3612 | 3612 | 1700 | 2100 | 2100 | 2000 | 1814 | 1998 | 1600 | 2000 |
| **5.4** | **Mot** | | | | | | | | | | | | | | |
| 5.4 | MOT if required by law | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.5** | **Chassis** | | | | | | | | | | | | | | |
| 5.3 | ROPS may be extended behind rear axle cut away - SLR Only | | | | | | | | | | √ | | | | |
| 5.6.1.1 | Engine and or gearbox torque reaction steady bar | | | | | | | √ | | | | | | | |
| 5.6.1.1 | Addition of a full width Ali panel under axle | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.6** | **Bodywork**<br>General | | | | | | | | | | | | | | |
| 5.6.1.2 | Replacement of rear parcel shelf & bulkhead with Ali panels - design and configuration free | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.1 | Ali or steel Engine Bulkhead fabricated to replicate design of a Std Morgan item | | | | | | | | | | √ | | | | |
| 5.6.1.1 | Ali access panels in bulkhead - gearbox removal | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.1 | Modify inner wing valance for Exhaust manifold exit | √ | | | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.3 | Additional cooling duct in inner half of top of front wing | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.4 | Additional bonnet side scoop | | | √ | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.1 | Original One Piece body & bonnet **SLR only** | | | | | | | | | | √ | | | | |
| 5.6.1.2 | Use of other than a full Morgan wooden body frame, **SLR only** | | | | | | | | | | √ | | | | |
| 5.6.1.3 | Use of non proprietary MMC Cowls or Grills **SLR only** | | | | | | | | | | √ | | | | |
| 5.6.1.3 | Original Morgan front cowl only (Steel or Superform Ali) | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.4 | Plus 4 super sports style front valance with additional brake cooling holes - Drawing 2, Appendix 3 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.5 | **Ground clearance** Minimum (under bottom of Z section at immediately behind cross member toe board) | | | | | | | | | | | | | | |
| 5.6.1.5 | 102mm | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.6.1.5 | 127 mm | √ | √ | √ | √ | √ | √ | | | | | | | | |
| **5.8.1** | **Suspensions** | | | | | | | | | | | | | | |
| 5.8.1 | Front Frame lower tube position (max 22mm to bottom of Z section) | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.8.1 | Front Wheel - Max Camber 2 Degree & Castor 6 degrees (+ or - 1/4 °) | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.8.1 | Front Anti Roll Bar (SLR Only D6) | | | | | | | | | | √ | | | | |
| 5.8.1 | Rear anti-tramp bars - max 2 | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.8.1 | Use of min 4 Std Morgan semi-elliptical Leaf Springs | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.8.1 | Use of axle Lowering blocks and or centralising block | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.8.3** | **Max Wheelbase** | | | | | | | | | | | | | | |
| 5.8.3 | 245cm + or - 10mm | | √ | √ | | | | √ | √ | √ | √ | √ | √ | | |
| 5.8.3 | 250cm + or - 10mm | √ | | | √ | √ | √ | | | | | | | √ | √ |
| **5.8.3** | **Max Front Track (Centre of Tyre to Centre of Tyre)** | | | | | | | | | | | | | | |
| 5.8.3 | 126.5cm + or - 10mm | | | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | |
| 5.8.3 | 130cm + or - 10mm | | | | | | | | | | | | | √ | √ |
| 5.8.3 | 134cm + or - 10mm | | √ | √ | | | | | | | | | | | |
| 5.8.3 | 137.5 cm + or - 10mm | √ | | | | | | | | | | | | | |
| **5.9.9** | **Max Rear Track (Centre of Tyre to Centre of Tyre)** | | | | | | | | | | | | | | |
| 5.8.3 | 130 cm + or - 10mm | | | | | | | √ | √ | √ | √ | √ | √ | | |
| | 138cm + or - 10mm | | | | | | | | | | | | | | |
| 5.8.3 | 139.5cm + or - 10mm | | | | | | | | | | | | | √ | √ |
| ~~5.8.3~~ | 142cm + or - 10mm | | | | √ | √ | | | | | | | | | |
| 5.8.3 | 143.5cm + or - 10mm | √ | √ | √ | | | √ | | | | | | | | |
| **5.9.1** | **Transmission** | | | | | | | | | | | | | | |
| 5.9.3 | Axle Ratio's - Free | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.9.3 | Std production Axle ratios ( 3.7:1, 3.45:1, 3.3:1) | √ | √ | √ | √ | √ | √ | | | | | | | | |
| 5.9.3 | May use 3.73 or 4.1 Ratio | | | √ | | | | | | | | | | | |
| 5.9.1 | Semi floating rear hubs - Steel - Salisbury - BTR | √ | | | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.9.3 | Std Morgan production H Pattern 4 Spd synchromesh gearbox, Synchromesh gearsets - Free | | | | √ | √ | | √ | | | √ | √ | √ | | |
| 5.9.3 | Std Morgan production H pattern Max 5 Spd synchromesh gearbox | √ | √ | √ | | | | | | | | | | | |
| 5.9.3 | Std Morgan production H pattern Max 5 Spd synchromesh gearbox, Synchromesh gearsets - Free | | | | | | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.11** | **Brakes** | | | | | | | | | | | | | | |
| 5.11.1 | Additional cooling (see bodywork) | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.11.1 | Additional cooling via ducts - not to be visible when normally viewing car or holes in bodywork | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5.11.1** | **Front Brakes** | | | | | | | | | | | | | | |
| 5.11.1 | Front brake discs - Max 278mm x 12.75mm thickness - Cast Iron | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.11.1 | Grooved or Dimpled discs (not drilled) | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.11.1 | Drum brakes 9" x 1 3/4" Cast Iron | | | | | | | | | | √ | | | | |
| 5.11.1 | Callipers - Max 4 pot Princess - Cast Iron | √ | | | | | | | √ | √ | | | | | |
| 5.11.1 | Caparo Ali Callipers - Max 4 pot | √ | √ | √ | | | | | √ | √ | | | | | |
| 5.11.1 | Callipers - Max 4 pot | | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.11.1 | Brake pad - Max 43.5cm2 swept pad area | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.11.1** | **Rear Brakes** | | | | | | | | | | | | | | |
| 5.11.1 | Rear drum - max size 9" x 1 3/4" - Cast Iron | √ | √ | √ | √ | √ | √ | | | | | | | | |
| 5.11.1 | Modified rear drums - max size 9" x 1 3/4" | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.10** | **Electrics** | | | | | | | | | | | | | | |
| 5.12.6 | Instrumentation must remain standard | √ | √ | √ | √ | √ | √ | | | | | | | | √ |
| 5.6.1.2 | Dash & instrumentation panel material free | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.12** | **Wheels / Steering**<br>**Steering** | | | | | | | | | | | | | | |
| 5.12.1 | Gemma Steering Box | √ | √ | | √ | √ | √ | √ | √ | √ | √ | √ | √ | | |
| 5.12.1 | Steering rack | √ | √ | √ | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.12.1 | Hi Ratio Steering Rack | √ | √ | √ | | | | | | | | | | | |
| **5.12** | **Wheels** | | | | | | | | | | | | | | |
| 5.12.1 | Any Make or Design - Steel or Aluminium | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.12.4** | **Front & Rear** | | | | | | | | | | | | | | |
| 5.12.4 | Std Morgan style max size 7" x 16" Wire or Alloy knock on | √ | | | | | | | | | | | | | |
| 5.12.4 | Std Morgan style Minilite 7" x 15" Alloy | | | √ | | | | | | | | | | | |
| 5.12.4 | Std Morgan style max size 6.5" x 16" alloy | √ | √ | | | | | | | | | | | | |
| 5.12.4 | Std Morgan style max size 6.5" x 15" alloy | √ | √ | | | √ | √ | | | | | | | | √ |
| 5.12.4 | Std Morgan style max size 5.5" x 15" | | | | √ | | | | | | | | | | |
| 5.12.4 | Max size 6" x 15" Alloy, Steel or Wire | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| **5.13** | **Tyres** | | | | | | | | | | | | | | |
| 5.13.2 | **Front & Rear** | | | | | | | | | | | | | | |
| 5.13.2 | Yokohama AO52. Max size 205 x 16" Min profile 50%. | √ | √ | | | | | | | | | | | | |
| 5.13.2 | Yokohama AO52. Max size 205 x 15" Min profile 50%. | √ | √ | √ | | √ | √ | | | | | | | | |
| 5.13.2 | Yokohama AO52. Max size 195 x 15" Min profile 50%. | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.13.2 | Any tyre from MSUK Blue Book List 1A or 1B. Max size 195 x 15" or 190/600R15. Min profile 50%. M & H Compound | | | | √ | | | | | | | | | | |
| 5.13.2 | Avon CR6ZZ Max size 185 x 15". Min profile 70% | | | | √ | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.13.2 | Dunlop L Min profile 65% | | | | | | | √ | √ | √ | √ | √ | √ | √ | √ |
| 5.13.3 | **Tyres Prohibited** | | | | | | | | | | | | | | |
| 5.13.3 | Change of wheel & tyre type or make and or designation between practice and race at any meeting | X | X | X | X | X | X | X | X | X | X | X | X | X | X |