

## Morgan Challenge Technical Regulations 2024

| Class 1    |   | 400 Mean BHP per Tonne |      |      |       |
|------------|---|------------------------|------|------|-------|
|            |   | <u>Specification A</u> |      |      |       |
| Para       | <u>Appendix 1</u>   |                        |      |      |       |
| 5.2        | <u>Permitted - Only If it shows "v"</u><br><br><u>Prohibited - If it shows "X"</u>  | 8Cyl                   | 6Cyl | 4Cyl | 4 Cyl |
| 5.2        | Maximum engine capacities   | 4600                   | 3726 | 2500 | 2000  |
| <b>5.5</b> | <b><u>General</u></b>   |                        |      |      |       |
| 5.5        | <b><u>Chassis</u></b>   |                        |      |      |       |
| 5.5        | Twin door bars  | v                      | v    | v    | v     |
| 5.5        | ROPS may be extended forward to front frame & strengthen bulkhead   | v                      | v    | v    | v     |
| 5.5        | ROPS may be extended behind rear axle cut away  | v                      | v    | v    | v     |
| 5.5        | ROPS welded to chassis  | v                      | v    | v    | v     |
| 5.5        | Engine support cradle / frame 25mm (1") box section, inc engine brackets welded to chassis  | v                      | v    | v    | v     |
| 5.5        | Engine mounting brackets welded, bolted or bonded to chassis  | v                      | v    | v    | v     |
| 5.5        | Position and design of engine mounting brackets free  | v                      | v    | v    | v     |
| 5.6.1.1    | Cross member linking - engine mounting brackets - either 1 off 50mm (2") x 25mm (1") or 2 off x 25mm (1") x 25mm (1") box section - Welded or bolted to chassis | v                      | v    | v    | v     |
| 5.6.1.1    | Engine mounting rubber bushes - Free  | v                      | v    | v    | v     |
| 5.6.1.1    | Engine and or gearbox torque reaction steady bar  | v                      | v    | v    | v     |
| 5.6.1.1    | solid material (max thickness 3mm) one piece panel under chassis (min ride height applies)  | v                      | v    | v    | v     |
| 5.6.1.3    | Repositioning of engine longitudinally  | v                      | v    | v    | v     |
| 5.6.1.1    | Repositioning of engine in the chassis so that the bottom of the sump mounting face of the block is a minimum of 200mm above level ground                       | v                      | v    | v    | v     |
| 5.6.1.1    | <b><u>Bodywork</u></b>  |                        |      |      |       |
| 5.6.1.1    | <b><u>General</u></b>   |                        |      |      |       |
| 5.6.1.2    | Replacement of rear parcel shelf & bulkhead with Ali panels - design and configuration free   | v                      | v    | v    | v     |
| 5.6.1.3    | Additional cooling hole in front face of front wing   | v                      | v    | v    | v     |
| 5.6.1.3    | Additional cooling duct in top of front wing  | v                      | v    | v    | v     |
| 5.6.1.1    | Ali or Steel Engine Bulkhead to replicate design of a Std Morgan Item   | v                      | v    | v    | v     |
| 5.6.1.1    | Ali or Steel access panels in bulkhead - Free   | v                      | v    | v    | v     |

|              |   |   |   |   |   |
|--------------|---|---|---|---|---|
| 5.6.1.1      | Ali or Steel access panels - to aid gearbox removal   | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.1      | Removal of inner wing valances  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.3      | Additional cooling hole in front face of front wing   | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.3      | Additional cooling duct in inner half of top of front wing  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.3      | Additional cooling hole in front face of rear wing  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.3      | Additional vents in bonnet  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.4      | Additional bonnet side scoop  |   | ✓ | ✓ | ✓ |
| 5.6.1.4      | No door body frame (production cars only)   |   | ✓ | ✗ | ✗ |
| 5.6.1.3      | Morgan style front cowl Superform Ali, Steel or Fibre glass with strengthening  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.4      | Front Bumper mounted front air dams or spoiler - Material Free - Drawing 1 Appendix 3   | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.4      | Max protrusion of splitter 7.5cm following contours of air dam, or spoiler  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.4      | Front Wing mounted spoiler - Material Free - see Drawing 3, Appendix 3  | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.5      | <b>Ground Clearance minimum</b> (under bottom of Z section at immediately behind cross member toe board (not U) on traditional cars, and mid point between front and rear wheels on Aero) |   |   |   |   |
| 5.6.1.5      | 102mm   | ✓ | ✓ | ✓ | ✓ |
| <b>5.8.1</b> | <b><u>Suspensions</u></b>   |   |   |   |   |
| 5.8.1        | Front Frame position Free   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Reinforcing of Frame Front without removal of material  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Replacement of damper blades with Roller Bearings   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Front Wheel Castor & Camber - Free  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Rear wheel camber - Max 1° (Max 59mm Dia Axle Tubes)  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Shock absorbers - Free - No remote reservoirs   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | 2.25" Dia Adjustable platform front springs   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Front & Rear spring lengths free (Coil only)  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Front Anti Roll Bar   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Rear anti Roll Bar  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Rear damper mountings free  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Adjustable coil over damper on Rear - Free - No remote reservoirs   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Lateral axle location free  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Rear anti-tramp bars - max 2  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Axle Top or bottom Links  | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Use min of 3 Std Morgan rear semi-elliptical Leaf Springs   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Rear Spring Rates Free - Coil   | ✓ | ✓ | ✓ | ✓ |
| 5.8.1        | Morgan production 5 link rear suspension consisting of Trailing arms, live axle, coil overs & panhard rod   | ✓ | ✓ | ✓ | ✓ |

|         |  |   |   |   |   |
|---------|--|---|---|---|---|
|         | <b><u>Max Wheelbase</u></b>  |   |   |   |   |
| 5.8.3   | Wheelbase - Free   | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Max Front Track (Centre of Tyre to Centre of Tyre)</u></b>                                       |   |   |   |   |
| 5.8.3   | Track - Free   | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Max Rear Track (Centre of Tyre to Centre of Tyre)</u></b>  |   |   |   |   |
| 5.8.3   | Track - Free   | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Transmission</u></b>   |   |   |   |   |
| 5.9.1   | Axle Ratio's - Free  | ✓ | ✓ | ✓ | ✓ |
| 5.9.3   | Use of any production H Pattern 5 or 6 Spd gearbox, Gear sets - Free                                   | ✓ | ✓ | ✓ | ✓ |
| 5.9.3   | Gearbox oil cooler & pump  | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Brakes</u></b>   |   |   |   |   |
| 5.11.1  | Non Production brakes  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Fitting of twin or dual brake master cylinders & balance bar - adjustable by driver when seated in car | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Additional cooling (see bodywork)  | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Front Brakes</u></b>   |   |   |   |   |
| 5.11.1  | Front Hubs - Free  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Brake discs - Max 315mm - Solid or Vented - Cast Iron  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Callipers - Max 6 pot  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Brake pad - Max 59.6cm2 swept pad area   | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Rear Brakes</u></b>  |   |   |   |   |
| 5.11.1  | Hubs - Free  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Brake discs - Max 302mm - Solid or Vented - Cast Iron  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Callipers - Max 4 pot  | ✓ | ✓ | ✓ | ✓ |
| 5.11.1  | Brake pads - Max 44cm2 swept pad area  | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Electrics</u></b>  |   |   |   |   |
| 5.6.1.2 | Dash & instrumentation panel material free   | ✓ | ✓ | ✓ | ✓ |
| 5.6.1.2 | Dash board instrumentation - Free  | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>5.12 Wheels / Steering</u></b>   |   |   |   |   |
|         | <b><u>Steering</u></b>   |   |   |   |   |
| 5.12.1  | Alternative Steering Column (collapsible section recommended)  | ✓ | ✓ | ✓ | ✓ |
| 5.12.1  | Gemma Steering Box   | ✓ | ✓ | ✓ | ✓ |
| 5.12.1  | Steering rack  | ✓ | ✓ | ✓ | ✓ |
| 5.12.1  | Hi Ratio Steering Rack   | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Wheels</u></b>   |   |   |   |   |
|         | <b><u>5.12 Fronts</u></b>  |   |   |   |   |
| 5.12.1  | Max size 9" x 16" front  | ✓ | ✓ | ✓ | ✓ |
|         | <b><u>Rears</u></b>  |   |   |   |   |
| 5.12.1  | Max size 10" x 17" rears   | ✓ | ✓ | ✓ | ✓ |

|             |  |   |   |   |   |
|-------------|--|---|---|---|---|
| 5.12.2      | <b><u>Tyres</u></b>  |   |   |   |   |
| <b>5.13</b> | Change wheel type and or tyre at any point in a single practice or race                                      | ✓ | ✓ | ✓ | ✓ |
| 5.13.1      | Tyre pressures - free  | ✓ | ✓ | ✓ | ✓ |
| 5.13.1      | Tyre inflation - use of compressed air or nitrogen   | ✓ | ✓ | ✓ | ✓ |
|             | <b><u>Front</u></b>  |   |   |   |   |
| 5.13.2      | Any tyre from MSUK Blue Book List 1A, 1B or 1C, maximum size 245 x 16", minimum profile 40%, M & H Compound. | ✓ | ✓ | ✓ | ✓ |
|             | <b><u>Rear</u></b>   |   |   |   |   |
| 5.13.2      | Any tyre from MSUK Blue Book List 1A, 1B or 1C, maximum size 255 x 17", minimum profile 40%, M & H Compound. | ✓ | ✓ | ✓ | ✓ |
| 5.13.3      | <b><u>Tyres Prohibited</u></b>   |   |   |   |   |
| 5.13.3      | Change of wheel & tyre type or make and or designation between practice and race at any meeting              | X | X | X | X |