Morgan Challenge Technical Regulations 2024

	Class 2	265 Mean BHP per Tonne							
	Appendix 1	**Specification**			**Specification**				**Specification**
		G			**J**				**H**
Para	**Permitted - Only If it shows "√"** **Prohibited - If it shows "X"**	**ARV6**	**6Cyl**	**6Cyl**	**Aero**	**8 Cyl**	**Baby Doll, +4 SS, & Spec (9)**	**4Cyl. Class from Spec (2-8)**	**8 Cyl** **HSCC**
5.2	Maximum engine capacities	**3726**	**3726**	**3000**	**4600**	**3999 / 4600**	**2000**	**2000**	**3612**
5.5	**General**								
5.5	**Chassis**								
5.5	Aluminium bonded & riveted chassis of a type produced by MMC and matching its dimensions				√				
5.5	Twin door bars	√	√	√		√	√	√	
5.5	ROPS may be extended behind rear axle cut away					√	√	√	√
5.5	Engine mounting brackets welded, bolted or bonded to chassis				√				
5.6.1.1	Addition of a full width Ali panel under axle	√	√	√		√	√	√	√
5.6.1.1	Addition of a full width Ali or plywood panel under engine	√	√	√		√	√	√	√
5.6.1.1	**Bodywork**								
5.6.1.1	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 access panels in bulkhead & to aid gearbox removal - Free	√	√	√		√	√	√	√
5.6.1.3	Additional cooling hole in front face of front wing	√	√	√	√	√	√	√	
5.6.1.3	Additional cooling duct in top of front wing				√				
5.6.1.3	Additional cooling duct in inner half of top of front wing				√				
5.6.1.4	Additional bonnet side scoop						√	√	
5.6.1.4	No door body frame (production cars only)	√							
5.6.1.3	Original Morgan front cowl only (Steel or Superform Ali)	√	√	√	√	√	√	√	√
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 except Aero 8 / GTN	√	√	√	√	√	√	√	
5.6.1.4	Plus 4 Super Sports style front valance (to protect oil cooler) - Drawing 2, Appendix 3	√	√	√		√	√	√	
5.6.1.4	Plus 4 Super Sports style front valance with additional brake cooling holes - Drawing 2, Appendix 3	√	√	√		√	√	√	
5.6.1.4	Front Wing mounted spoiler - Material Free - see Drawing 3, Appendix 3	√	√	√		√	√	√	
5.6.1.4	Diffuser behind the rear axle line - must not protrude beyond rear bodywork				√				
	Ground Clearance Minimum (under bottom of Z section immediately behind cross member (Not U) on traditional cars. Mid point between front & rear wheels on Aero.								
5.6.1.5	102mm						√	√	
5.6.1.5	127mm	√	√	√	√	√			√
5.8.1	**Suspensions**								
5.8.1	Match the Std Rocker arm & inboard damper arrangements in material & dimensions				√				
5.8.1	Front Frame lower tube position (max 22mm to bottom of Z section)	√	√	√		√	√	√	√
5.8.1	Morgan stub axles & wishbones				√				
5.8.1	Front Hubs Material :Free	√	√	√		√	√	√	
5.8.1	Fitting of twin brake master cylinders & balance bar - adjustable by driver when seated in car								
5.8.1	Strengthening of wishbones				√				
5.8.1	Replacement of damper blades with Roller Bearings	√	√	√		√	√	√	

CRThompson 16/03/2024

5.8.1	Front Wheel Castor & Camber - Free					√					√
5.8.1	Front Wheel - Max Camber 2 Degree & Castor 6 degrees (+ or - 1/4)	√	√	√			√	√	√		√
5.8.1	2.25" Dia Adjustable platform front springs					√					
5.8.1	Front Anti Roll Bar					√					
5.8.1	Rear anti Roll Bar					√					
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	Rear Spring Rates Free - Coil	√	√			√					
5.8.1	Independent rear suspension					√					
5.8.1	Morgan production 5 link rear suspension consisting of Trailing arms, live axle, coil overs & Panhard rod	√	√	√			√	√	√		
5.8.3	**Max Wheelbase**										
5.8.3	245cm + or - 10mm								√		
5.8.3	250cm + or - 10mm	√	√	√			√	√			√
5.8.3	253cm + or - 10mm					√					
5.8.3	**Max Front Track (Centre of Tyre to Centre of Tyre)**										
5.8.3	130cm + or - 10mm							√	√		
5.8.3	137.5 cm + or - 10mm										√
5.8.3	143 cm + or - 10mm	√	√	√			√				
5.8.3	**Max Rear Track (Centre of Tyre to Centre of Tyre)**										
5.8.3	139.5cm + or - 10mm							√	√		
5.8.3	143.5cm + or - 10mm	√	√	√			√	√			
5.8.3	148.5 cm + or - 10mm					√					
5.9.1	**Transmission**										
5.9.1	Fixed diff unit BTR, Quaiffe or Hydrotrack					√					
5.9.3	Axle Ratio's - Free	√	√	√		√	√	√			√
5.9.3	Std production ratios								√		
5.9.3	Floating or Semi floating rear drive shafts	√	√	√			√	√	√		
5.9.3	Std Morgan production H Pattern 4 Spd synchromesh gearbox, Synchromesh gearsets - Free (Class D 4cyl. 2, 4, 6 & E1, 2, 4, 6)										√
5.9.3	Std Morgan production H pattern max 5 Spd synchromesh gearbox, Synchromesh gearsets - Free						√	√	√		√
5.9.3	Std Morgan production H pattern Max 6 Spd synchromesh gearbox	√	√			√					
5.9.3	Use of any production H Pattern 5 Spd synchromesh gearbox, Synchromesh gearsets - Free			√			√	√	√		
5.11	**Brakes**										
5.11.1	Non Production brakes	√	√	√			√	√	√		
5.11.1	Fitting of twin brake master cylinders & balance bar - adjustable by driver when seated in car	√	√	√		√	√	√	√		
5.11.1	Additional cooling (see bodywork)	√	√	√		√	√	√	√		
5.11.1	**Front Brakes**										
5.11.1	Brake discs - Max 330mm x 32mm - Solid or Vented - Cast Iron					√					
5.11.1	Brake discs - Max 302mm x32- Solid or Vented –Cast Iron	√	√	√			√	√	√		
5.11.1	Front brake discs - Max 278mm x 12.75mm thickness - Cast Iron										√
5.11.1	Callipers - Max 4 pot	√	√	√		√	√	√	√		
5.11.1	Callipers - Max 2 pot										√
5.11.1	Brake pad - Max 68.8cm2 swept pad area					√					
5.11.1	Brake pad - Max 59.6cm2 swept pad area	√	√	√			√	√	√		
5.11.1	Brake pad - Max 37.9cm2 swept pad area										√
5.11.1	**Rear Brakes**										
5.11.1	Brake discs - Max 306 x 24mm - Solid or Vented - Cast Iron					√					
5.11.1	Brake discs - Max 280mm solid or vented - Cast Iron	√	√	√			√	√	√		
5.11.1	Grooved or Dimpled discs (not drilled)	√	√	√			√	√	√		
5.11.1	Callipers - Max 2 pot	√	√	√		√	√	√	√		
5.11.1	Rear brake pads - Max 30.5cm2 swept pad area					√					
5.11.1	Rear brake pads - Max 27.5cm2 swept pad area	√	√	√			√	√	√		
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**										
5.10.1	Dash & instrumentation panel material free	√	√	√		√	√	√	√		√
5.10.1	Dash board instrumentation - Free	√	√	√		√	√	√	√		√

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5.12	**Wheels / Steering** **Steering**										
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	√	√	√		√	√	√	√		
5.12	**Wheels**										
5.12.4	**Front & Rear**										
5.12.4	Max size 9" x 18"					√					
5.12.4	Max size 7" x 16" Alloy	√	√	√			√	√	√		
5.12.4	Max size 6" x 15" Alloy, Steel or Wire										√
5.13	**Tyres**										
5.13	**Front**										
5.13.2	Yokohama AO52. Maximum size 225 x 18" Minimum profile 40%.					√					
5.13	**Rear**										
5.13.2	Yokohama AO52. Maximum size 245 x 18" Minimum profile 40%.					√					
5.13.2	**Front & Rear**										
	Yokohama AO52. Max size 225 x 16" Min profile 45%.	√	√	√			√	√	√		
5.13.2	Historic specified tyres Max size 205 x 15. min profile of 60%										√
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

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