AR Motorsport Morgan Challenge Technical Regulations 2022

Para	Appendix 1	Class 4			220 BHP per Tonne									
		Specification												Specification
		D												S
		Moss	Rover	Rover	X Flo	Fiat	M/T	TR	TR	Zetec		Sigma	Dura	+4
		4 Spd	4 Spd	5 Spd	(2)	(3) (5)	(4) (7)	(5) (6)	(5) (6)	(6) (4)	(7) (4)	(8)	(9)	Club Sport
5.2	Maximum engine capacities	3612	3612	3612	1700	2100	2100	2000	2300	1814	1998	1600	2000	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				√	√	√	√	√	√	√	√	√	
5.8	**Bodywork** 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 or steel access panels in bulkhead - Free				√									
5.6.1.1	Ali access panels in bulkhead - gearbox removal Class A, B, (D & E +4 & SLR)							√	√					
5.6.1.3	Additional cooling duct in inner half of top of front wing				√	√	√	√	√	√	√	√	√	√
6.6.1.4	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)	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.5	**Ground clearance** Minimum (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				√	√	√	√	√	√	√	√	√	
5.6.1.5	127mm	√	√	√										√
5.8.1	**Suspensions**													
5.8.1	Replacement of damper blades with Roller Bearings		√	√	√	√	√	√	√	√	√	√	√	√
5.8.1	Front Wheel - Max Camber 1 Degree & Castor 6 degrees (+ or - 1/4 °)	√	√	√										
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	√	√	√	√	√	√	√	√	√	√	√	√	√
5.8.3	**Max Wheelbase**													
5.8.3	245cm + or - 10mm				√	√	√	√	√	√	√			X
5.8.3	250cm + or - 10mm	√	√	√								√	√	
5.8.3	**Max Front Track (Centre of Tyre to Centre of Tyre)**													
5.8.3	123.5cm + or - 10mm													
5.8.3	126.5cm + or - 10mm	√	√	√	√	√	√	√	√	√	√			√
5.8.3	130cm + 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				√	√	√	√	√	√	√			√
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	√	√	√										√
5.9.3	May use 3.73 or 4.1 Ratio													
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	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	Callipers - Max 2 pot	√	√	√				√	√						
5.11.1	Brake pad - Max 43.5cm2 swept pad area				√	√	√	√	√	√	√	√	√		
5.11.1	Brake pad - Max 37.9cm2 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	√	√	√									√		
5.7.8	Removal or deactivation of fuel cut out switch	√	√	√	√	√	√	√	√	√	√	√	√		
5.6.1.2	Dash & instrumentation panel material free	√	√	√	√	√	√	√	√	√	√	√	√		
5.12	**Wheels / Steering Steering**														
5.12.1	Gemma Steering Box	√	√	√	√	√	√	√	√	√	√				X
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 max size 6.5" x 15" alloy		√	√									√		√
5.12.4	Std Morgan style max size 5.5" x 15"	√													√
5.12.4	Std Morgan style max size 5" x 15" wire wheel														√
5.12.4	Max size 6" x 15" Alloy, Steel or Wire				√	√	√	√	√	√	√	√	√		√
5.13.2	**Front & Rear**														
5.13.2	Any tyre from MSUK Blue Book List 1A or 1B. Max size 205 x 15". Min profile 55% M & H compound		√	√											
5.13.2	Any tyre from MSUK Blue Book List 1A or 1B. Max size 195 x 15" or 190/580R 15. Min profile 50%. M & H Compound				√	√	√	√	√	√	√	√	√		√
5.13.2	Any tyre from MSUK Blue Book List 1A or 1B. Max size 195 x 15" or 190/600R15. Min profile 55%. M & H Compound	√													
5.13.2	Avon CR6ZZ Max size 185 x 15". Min profile 70%	√			√	√	√	√	√	√	√	√	√		
5.13.2	Dunlop L				√	√	√	√	√	√	√	√	√		
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		