AR Motorsport Morgan Challenge Technical Regulations 2023

Para	Appendix 1	Class 4			185 Mean BHP per Tonne									
		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)	(4)	(5)	(5)	(6)	(7)	(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	√	√	√	√	√	√	√	√	√	√				
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	X	X