AR Motorsport Morgan Challenge Technical Regulations 2022

	Class 3	250 BHP per Tonne														
		Specification	Specification		Specification	Specification										
Para	**Appendix 1**	**C**	**R**		**S**	**D**										
5.2	**Permitted - Only If it shows "√"** **Prohibited - If it shows "X"**	8 Cyl	6Cyl	+4 SS (9)	+4 Club Sport	Moss 4 Spd	Rover 4 Spd	Rover 5 Spd	X Flo (2) (2)	Fiat (3) (5)	M/T (4) (7)	TR (5 &6) (6)	Zetec (6) (4)	Zetec (7) (4)	Sigma (8)	Dura (9)
5.2	Maximum engine capacities	4000	2999	2000	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								√	√	√	√	√	√	√	√
5.8	**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											√				
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								√	√	√	√	√	√	√	√
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)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
5.6.1.4	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 (not U) on traditional cars, and mid point between front and rear wheels on Aero)															
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	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	√	√	√	√	√	√	√								√
5.6.1.2	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	Srs Morgan style Minilite 7" x 15" 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	Std Morgan style max size 5" x 15" wire wheel																
5.12.4	Max size 6" x 15" Alloy, Steel or Wire								√	√	√	√	√	√	√	√	
5.13	**Tyres**																
5.13.2	**Front & Rear**																
5.13.2	Any tyre from MSUK Blue Book List 1A or 1B. Max size 205 x 16" or 200/630R15. Min profile 50%. M & H compound	√	√														
5.13.2	Any tyre from MSUK Blue Book List 1A or 1B. Max size 205 x 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 190/580R 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 50%. 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	X	