

# AR Motorsport Morgan Challenge Technical Regulations 2023

<u>Class 5</u>		<b>165 Mean BHP per Tonne</b>			
		<u>Specification</u>			
<u>Para</u>	<b>Appendix 1</b>	<u>E</u>			
5.2	<b>Permitted - Only If it shows "v" Prohibited - If it shows "X"</b>	<b>Moss 4 Spd</b>	<b>(1-7)</b>	<b>Sig (8)</b>	<b>Dura (9)</b>
5.2	Maximum engine capacities	<b>3612</b>		<b>1600</b>	<b>2000</b>
<b>5.4</b>	<b>Mot</b>				
5.4	MOT if required by law	v	v	v	v
<b>5.5</b>	<b>Chassis</b>				
5.3	ROPS may be extended behind rear axle cut away - <b>SLR Only</b>		v		
<b>5.8</b>	<b>Bodywork</b>				
	<u>General</u>				
5.6.1.2	Replacement of rear parcel shelf & bulkhead with Ali panels - design and configuration free	v			
5.6.1.1	Ali access panels in bulkhead - gearbox removal		v		
5.6.1.3	Additional cooling duct in inner half of top of front wing				
6.6.1.4	Additional bonnet side scoop		v		
5.6.1.1	Original One Piece body & bonnet <b>SLR only</b>		v		
5.6.1.2	Use of other than a full Morgan wooden body frame, <b>SLR only</b>		v		
5.6.1.3	Use of non proprietary MMC Cowl or Grills <b>SLR only</b>		v		
5.6.1.5	<b>Ground Clearance</b> 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				
5.6.1.5	102mm		v		v
5.6.1.5	127mm	v		v	
<b>5.8.1</b>	<b>Suspensions</b>				
5.8.1	Replacement of damper blades with Roller Bearings		v	v	v
5.8.1	Front Wheel - Max Camber 1 Degree & Castor 6 degrees (+ or - 1/4 °)	v			
5.8.1	Front Wheel - Max Camber 2 Degree & Castor 6 degrees (+ or - 1/4 °)		v	v	v
5.8.1	Front Anti Roll Bar (SLR Only D6)				
<b>5.8.3</b>	<b>Max Wheelbase</b>				
5.8.3	245cm + or - 10mm		v		
5.8.3	250cm + or - 10mm	v		v	v

<b>5.8.3</b>	<b><u>Max Front Track (Centre of Tyre to Centre of Tyre)</u></b>				
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				
<b>5.9.9</b>	<b><u>Max Rear Track (Centre of Tyre to Centre of Tyre)</u></b>				
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				
<b>5.9.1</b>	<b><u>Transmission</u></b>				
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		✓	✓	✓
<b>5.11</b>	<b><u>Brakes</u></b>				
<b>5.11.1</b>	<b><u>Front Brakes</u></b>				
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		✓	✓	✓
5.11.1	Callipers - Max 2 pot	✓			
5.11.1	Brake pad - Max 43.5cm <sup>2</sup> swept pad area		✓	✓	✓
5.11.1	Brake pad - Max 37.9cm <sup>2</sup> swept pad area	✓			
<b>5.11.1</b>	<b><u>Rear Brakes</u></b>				
5.11.1	Rear drum - max size 9" x 1 3/4" - Cast Iron	✓	✓	✓	✓
<b>5.12</b>	<b><u>Wheels / Steering</u></b>				
<b>5.12.1</b>	<b><u>Steering</u></b>				
5.12.1	Gemma Steering Box	✓	✓		
5.12.1	Steering rack			✓	✓
5.12.1	Hi Ratio Steering Rack				
<b>5.12</b>	<b><u>Wheels</u></b>				
5.12.1	Any Make or Design - Steel or Aluminium		✓		
<b>5.12.4</b>	<b><u>Front &amp; Rear</u></b>				
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		✓		✓

<b>5.13</b>	<b><u>Tyres</u></b>				
5.13.2	<b>Front &amp; Rear</b>				
5.13.2	Any tyre from MSA 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	<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