

# AR Motorsport Morgan Challenge Technical Regulations 2022

Motorsport UK Blue Book Regulations apply to all appendices

Class 4		220 BHP per Tonne											
Appendix 2		Specification D											Specification
Permitted - Only if it shows "v"		Moss	Rover	Rover	X Flo	Fiat	M/T	TR	Zetec		Sigma	Dura	S
Prohibited - If it shows "X"		Rover	Rover	Rover	Ford Kent	Fiat	Rover M / T	TR	Zetec	Zetec	Ford Sigma	Duratec 14	Club Sport
Para		4 SPD	4 Spd	5 Spd	(2) (2)	(3) (5)	(4) (7)	(5) (6)	(6) (4)	inc 170 (7) (4)	(8)	(9)	+4
	<b>Max Capacity cc</b>	3612	3612	3612	1700	2100	2100	2300	1814	1998	1700	2000	2000
<b>5.7</b>	<b>Engine General</b>												
	<b>Blocks</b>												
5.7.1	Std bore + rebore up to maximum capacity	v	v	v	v	v	v	v	v	v	v	v	
<b>5.7.1</b>	<b>Heads</b>												
5.7.1	Use of production Twin cam heads					v	v		v	v	v	v	v
5.7.1	Modified cylinder heads, Std production valves, No adding of material.					v	v			v			
5.7.1	Modified heads, but No adding of material				v	v	v	v	v	v	v		
5.7.1	Valve sizes - Free				v	v	v	v	v		v		
5.7.1	Omex valve springs. Part No: OMEP 4022											v	
5.7.1	Uprated valve springs	v	v	v	v	v	v	v	v	v	v		v
<b>5.7.1</b>	<b>Crankshafts &amp; Conrods</b>												
5.7.1	Crankshaft free - Std firing order				v	v	v	v					
5.7.1	Connecting rods - Free				v	v	v	v	v	v	v		
<b>5.7.1</b>	<b>Pistons</b>												
5.7.1	Pistons - Free				v	v	v	v	v	v	v		
5.7.1	Pistons free may protrude above cylinder block							v			v		v
<b>5.7.1</b>	<b>Compression ratio</b>												
5.7.1	Compression ratio - Free				v			v					
5.7.1	Max compression ratio 12.5:1										v		v
5.7.1	Max compression ratio 11.5:1								v				
5.7.1	Max compression ratio 11:1						v			v			
5.7.1	Max compression ratio 10.5:1	v	v	v								v	
5.7.1	Max compression ratio 9.35:1		v	v									
<b>5.7.1</b>	<b>Engine RPM</b>												
5.7.1	Engine RPM - Free				v								
5.7.1	Max Engine RPM 8250										v		
5.7.1	Max Engine RPM 7500					v	v	v	v	v			
5.7.1	Max Engine RPM 7000						v					v	
5.7.1	Max Engine RPM 6250	v	v	v									
<b>5.7.1</b>	<b>Camshafts</b>												
5.7.1	Cam shaft - Free - position in block or head Std				v			v					v
5.7.1	Std cams											v	
5.7.1	Std P6 or SD1	v	v	v									
5.7.1	Omex - Inlet cam. Or Kent - OMC005. Omex - Exhaust cam. Or Kent: OMC006.											v	
5.7.1	Propriety manufactured & available Camshafts Maximum Duration 285°					v	v		v	v	v		
5.7.1	Followers - Free	v	v	v	v	v	v	v					
5.7.1	Ali or Steel rocker arms - Std Ratio	v	v	v									
5.7.1	Modified rocker arms				v			v					
5.7.1	Steel or Ali pillars with Outrigger Supports				v			v					
5.7.1	Camshaft / valve / head configurations not used by MMC in production - (SLR only)							v					
<b>5.7.4</b>	<b>Lubrication</b>												
5.7.4	Dry Sumping				v								
<b>5.9.1</b>	<b>Clutch &amp; Flywheel</b>												
5.9.1	Flywheel - Free				v	v	v	v	v	v	v	v	
5.9.1	Clutch Size - Free				v	v	v	v	v	v	v	v	
5.9.1	Lightened Flywheel	v	v	v									
5.9.1	Solid replacement for dual mass flywheel, at 75% of Std weight										v	v	
<b>5.7.7</b>	<b>Ignition Systems</b>												
5.7.7	Ignition / ECU - Free				v	v	v		v	v	v	v	v
5.7.7	Electronic Ignition (not programmable on carb / injection / distributor cars)	v	v	v				v					
<b>5.7.5</b>	<b>Induction &amp; Fuel systems</b>												
5.7.5	Std production inlet manifold & trumpet bases to air cleaner	v	v	v		v	v						v
5.7.5	Change of Inlet Manifold				v	v	v	v	v	v			
5.7.5	Cable Operated Throttle	v	v	v	v	v	v	v	v	v	v		
5.7.5	SU / Stromberg carbs 1.75" max of 2	v	v	v									
5.7.5	Maximum 2 x twin choke carburetors 45mm					v	v	v	v	v			

