	MSA Blue Book Regulations apply to all appendices	AR Motorsport Morgan Technical Regulations 2019 V(a) - DRAFT																
Para	**Appendix 1**	**Classes C - D - E & I**																
5.2		Class C	Class D												Class E			Class I
5.2	**Permitted - Only If it shows "√"** **Prohibited - If it shows "X"**	8 Cyl	Moss 4 Spd	Rover 4 Spd	Rover 5 Spd	X Flo 2	Zetec 4	Zetec 4	Fiat 5	TR 6	TR 6	M/T 7	Sigma 8	Dura 9	1-7	Sig 8	Dura 9	
5.2	Maximum engine capacities	3900	3612	3612	3612	1700	1814	1998	2100	2000	2300	2100	1700	2000		1600	2000	
5.4	**Mot**																	
5.4	MOT if required by law	√	√	√	√										√	√	√	
5.5	**Chassis**																	
5.5	Steel Z section ladder chassis with cross member box sections of a type produced by MMC and matching its dimensions	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.5	Galvanising of Chassis	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.5	Localised modifications to rear spring front hanger cross member to facilitate fitment of a race seat	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.5	Front leg gusset maximum size - 18.5" Length x 7.5" Width	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.3	Scuttle hoop	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.3	Single door bars	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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	Simple Metal Floor as a direct replacement of standard boards max 3mm thickness	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	Simple Metal Floor panel under seat (3mm steel or 6mm Ali) to facilitate seat mounting	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	Addition of a full width Ali panel under axle					√	√	√	√	√	√	√	√	√	√		√	
5.6.1.1	Non standard repairs, localised reinforcing of exhaust exits - Tec Com to approve.	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8	**Bodywork** General																	
5.6.1.3	Optional Removal of Windscreens & Fitment of Aero Screen	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	Removal of Spare Wheels, Tools & toolboxes	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.3	Removal of bumpers	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Removal of Trim	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Internal trim panels - Ali, Ply or Carbon fibre	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Replacement of rear parcel shelf & bulkhead with Ali panels - Std configuration	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Replacement of rear parcel shelf & bulkhead with Ali panels - design and configuration free		√	√	√	√	√	√	√	√	√	√	√	√				
5.6.1.2	Non standard seat for driver	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Extensions to throttle, brake & clutch pedals (to aid foot control)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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)									√	√				√			
5.6.1.1	Gearbox & prop shaft tunnels - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	Modify inner wing valance for Exhaust manifold exit	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	Cooling ducts to Inner wing valances	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.3	Additional cooling duct in inner half of top of front wing					√												
6.6.1.4	Additional bonnet side scoop					√	√	√	√	√	√	√	√	√	√			
5.6.1.4	Spare wheel aperture cover	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	

Para	Appendix 1	Classes C - D - E & I															
5.2		Class C	Class D												Class E			Class I
5.2	**Permitted - Only If it shows "√"** **Prohibited - If it shows "X"**	8 Cyl	Moss 4 Spd	Rover 4 Spd	Rover 5 Spd	X Flo 2	Zetec 4	Zetec 4	Fiat 5	TR 6	TR 6	M/T 7	Sigma 8	Dura 9	1-7	Sig 8	Dura 9	
5.2	Maximum engine capacities	3900	3612	3612	3612	1700	1814	1998	2100	2000	2300	2100	1700	2000		1600	2000	
5.6.1.1	Hardtop	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	Alloy or steel wings	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.1	GRP Wings (min 2mm thickness)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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 (to protect oil cooler) - Drawing 2, Appendix 3	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.4	Plus 4 super sports style front valance with additional brake cooling holes - Drawing 2, Appendix 3		√	√	√	√	√	√	√	√	√	√	√	√				
5.6.1.5	Minimum ground clearance (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	130 mm	√	√	√	√													
5.6.1.5	140mm															√		
5.8.1	**Suspensions**																	
5.8.1	Match a Std Morgan Front frame in material & dimensions	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Front Frame lower tube position (max 22mm to bottom of Z section)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	To open the loop of bottom lug to facilitate camber adjustment	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Frame front top stays	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Morgan king pins & stub axles	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Hard chrome king pins	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Replacement of damper blades with Roller Bearings	√				√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Adjustable camber plates	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Front Wheel - Max Camber 1 Degree & Castor 6 degrees ~~(+ or - 10%~~ 1/4 °)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Shock absorbers - single action adjustable dampers	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Shock absorbers - Double action adjustable dampers i.e. bump & rebound (No remote reservoirs)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Front spring rates - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Front spring lengths - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Front 1.8" SUPLEX 'Race coils' kit with adjustable platform	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Front Anti Roll Bar (SLR Only D6)									√	√							
5.8.1	Rutherford rear damper mounting brackets	√	√	√	√	√	√	√	√	√	√	√			√			
5.8.1	Std Morgan Rear damper mounting hoop	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Panhard Rod	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.1	Use of H/Duty U-Bolts	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.8.3	**Max Wheelbase**																	
5.8.3	245cm + or - 10mm					√	√	√	√	√	√	√			√			

Para	Appendix 1	Classes C - D - E & I															
5.2		Class C	Class D												Class E			Class I
5.2	**Permitted - Only If it shows "√"** **Prohibited - If it shows "X"**	8 Cyl	Moss 4 Spd	Rover 4 Spd	Rover 5 Spd	X Flo 2	Zetec 4	Zetec 4	Fiat 5	TR 6	TR 6	M/T 7	Sigma 8	Dura 9	1-7	Sig 8	Dura 9	
5.2	Maximum engine capacities	3900	3612	3612	3612	1700	1814	1998	2100	2000	2300	2100	1700	2000		1600	2000	
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**																	
5.9.1	Live rear axle - Salisbury BTR or Quaiffe with LSD or TBD	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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															√	√	
5.9.1	Semi floating rear hubs ~~Modified hubs & half shafts~~ - Steel - Salisbury	√	√	√	√	√	√	√	√	√	√	√			√			
5.9.1	Semi floating rear hubs - Steel - BTR axle												√	√		√	√	
5.9.3	Std Morgan production H Pattern 4 Spd synchromesh gearbox, Synchromesh gearsets - Free (Class D 4cyl. 2, 4, 6 & E1, 2, 4, 6)		√	√		√	√	√		√	√				√			
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				√	√	√	√	√	√	√	√	√	√	√	√	√	
5.9.2	**Transmission Prohibited**																	
5.9.2	Aluminium or Carbon Fibre prop shafts	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.9.2	Differentials may not be electronically controlled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.9.2	Use of any aftermarket electronic traction control device	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.9.2	Fully sequential gearboxes are not permitted	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.11	**Brakes**																	
5.11.1	ABS																	
5.11.1	Linings free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.11.1	Racing brake fluid	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.11.1	Aeroquip type hoses	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.11.1	Repositioning & modifying of handbrake lever to enable operation when seated in car	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
~~5.11.1~~	~~Fitting of dual circuit brake master cylinder~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	~~√~~	
5.11.1	Fitting of dual circuit or twin brake master cylinders & balance bar - non adjustable by driver when seated in car	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.11.1	Fitting in-line pressure limiting valve - non adjustable by driver	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.11.1	Mechanical or hydraulic handbrake	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	

Para	Appendix 1	Classes C - D - E & I															
5.2		Class C	Class D												Class E			Class I
5.2	Permitted - Only If it shows "√" Prohibited - If it shows "X"	8 Cyl	Moss 4 Spd	Rover 4 Spd	Rover 5 Spd	X Flo 2	Zetec 4	Zetec 4	Fiat 5	TR 6	TR 6	M/T 7	Sigma 8	Dura 9	1-7	Sig 8	Dura 9	
5.2	Maximum engine capacities	3900	3612	3612	3612	1700	1814	1998	2100	2000	2300	2100	1700	2000		1600	2000	
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	Change of rear wheel cylinders	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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"					√	√	√	√	√	√	√	√	√				
5.11.2	**Brakes Prohibited**																	
5.11.2	Ceramic or carbon discs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.11.2	ABS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5.10	**Electrics**																	
5.10.1	Exterior lighting must meet Road Traffic Act and or MSA regulations	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.2	Rear Fog must meet MSA Regulation ~~K5~~ apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.3	Batteries position & type free - MSA Regulations apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.4	Fully working generators - Type and make of generator free, ~~must meet MSA J5.14.3~~ MSA regulations apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.4	Generator pulleys - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.7	Fully working starters Free - MSA - Regulations apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.8	Removal or deactivation of fuel cut out switch	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.7	Removal or deactivation of steering lock	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Repositioning of ignition and starter switch	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Dash & instrumentation panel material free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Supplementary gauge permitted i.e. Oil temp gauge	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.3	Wiring harness - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	Rev limiters	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Shift lights	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.6.1.2	Timing systems	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.12	**Wheels / Steering** **Steering**																	
5.12.1	Gemma Steering Box	√	√	√	√	√	√	√	√	√	√	√			√			
5.12.1	Steering rack	√				√	√	√	√	√	√	√	√	√		√	√	
5.12.1	Hi Ratio Steering Rack	√																
5.12.1	Power Steering	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.12.1	Alternative Steering wheel	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.12.1	Removable Steering Wheel	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.12	**Wheels**																	
5.12.1	Any Make or Design - Steel or Aluminium					√	√	√	√	√	√	√	√	√	√			

Para	Appendix 1	Classes C - D - E & I																
5.2		Class C	Class D												Class E			Class I
5.2	Permitted - Only If it shows "√" Prohibited - If it shows "X"	8 Cyl	Moss 4 Spd	Rover 4 Spd	Rover 5 Spd	X Flo 2	Zetec 4	Zetec 4	Fiat 5	TR 6	TR 6	M/T 7	Sigma 8	Dura 9	1-7	Sig 8	Dura 9	
5.2	Maximum engine capacities	3900	3612	3612	3612	1700	1814	1998	2100	2000	2300	2100	1700	2000		1600	2000	
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					√	√	√	√	√	√	√	√	√	√		√	
5.12.2	**Wheels Prohibited**																	
5.12.2	Magnesium wheels	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.13	**Tyres**																	
~~5.13.1~~	~~Change wheel type and or tyre at any point in a single practice or race~~																	
5.13.1	Tyre pressures - free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.13.1	Tyre inflation - use of compressed air or nitrogen	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.13.2	**Front & Rear**																	
5.13.2	Yokohama A048R or A052, Toyo R888R. Max size 205 x 16" or 200/630R15. Min profile 55%. M & H compound	√																
5.13.2	Yokohama A048R or A052, Toyo R888R. Max size 205 x 15". Min profile 55% M & H compound	√		√	√													
5.13.2	Yokohama A048R or A052. Toyo R888R. Max size 195 x 15" or 190/580R 15. Min profile 50%. M & H Compound					√	√	√	√	√	√	√	√	√				
5.13.2	Yokohama A048R or A052, Toyo R888R. 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					√	√	√	√	√	√	√	√	√	√			
5.13.1	If a designated make or size of tyre is not available the Championship Co-ordinator may approve an alternative tyre from the MSA List 1a, 1b, 1c in writing to all competitors	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
5.13.3	**Tyres Prohibited**																	
5.13.3	Use of Soft or super soft compound tyres	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5.13.3	Use of tyre heating/heat retention devices, tyre treatments & compounds	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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	X	X
5.15	**Fuel Tank / Fuel**																	
5.15.1	Fuel tank material any - MSA regulations apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.15.2	Fuel tank mountings - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.15.1	Fuel tank capacity - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.15.3	Proprietary additives - Lead replacement and or Ethanol Reduction	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.15.3	Pump fuel quality - MSA regulations apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	