

	MSA Blue Book Regulations apply to all appendices	AR Motorsport Morgan Technical Regulations 2019 V(a) - DRAFT														
Para	Appendix 1	Classes A - G - J - R - S - H														
5.2		Class A				Class G			Class J				Class R		Class S	Class H
5.2	Permitted - Only If it shows "V" Prohibited - If it shows "X"	8Cyl	6Cyl	4Cyl	4 Cyl	ARV6	6Cyl	6Cyl	Aero	8 Cyl	Baby Doll, +4 SS, & Class D (9)	4Cyl. Class from D (2-8)	6Cyl	+4	+4	8 Cyl
5.2	Maximum engine capacities	4600	3726	2500	2000	3726	3726	3000	4600	3999 / 4600	2000	2000	2999	2000	2000	3612
5.4	Mot															
5.4	MOT if required by law												√	√	√	
5.5	General															
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	Aluminium bonded & riveted chassis of a type produced by MMC and matching its dimensions								√							
5.5	Galvanising of Chassis	√	√	√	√		√	√		√	√	√	√	√	√	√
5.5	Reinforcing of the 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					√	√	√		√	√	√	√	√	√	√
5.5	Front leg gusset - Free	√	√	√	√											
5.3	Scuttle hoop	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
5.3	Single door bars	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
5.3	Twin door bars	√	√	√	√	√	√	√		√	√	√				
5.3	ROPS may be extended forward to front frame & strengthen bulkhead	√	√	√	√											
5.3	ROPS may be extended behind rear axle cut away	√	√	√	√											√
5.3	ROPS welded to chassis	√	√	√	√											
5.5	Engine support cradle / frame 25mm (1") box section, inc engine brackets welded to chassis	√	√	√	√											
5.5	Engine mounting brackets welded, bolted or bonded to chassis	√	√	√	√				√							
5.5	Position and design of engine mounting brackets free	√	√	√	√											
5.6.1.1	Cross member linking - engine mounting brackets - either 1 off 50mm (2") x 25mm (1") or 2 off x 25mm (1") x 25mm (1") box section - Welded or bolted to chassis	√	√	√	√											
5.6.1.1	Engine mounting rubber bushes - Free	√	√	√	√											
5.6.1.1	Engine and or gearbox torque reaction steady bar	√	√	√	√											
5.6.1.1	Composite Material for floors under chassis for reinforcement Maximum 14 mm thickness - (Addition of 14mm composite floors is only permitted on cars constructed prior to the 2014 season) - (Slot to be provided so as to allow minimum ride height measurement to be taken from chassis)	√	√	√	√											
5.6.1.1	solid material (max thickness 3mm) one piece panel under chassis (min ride height applies)	√	√	√	√											
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	√	√	√	√	√	√	√		√	√	√	√	√	√	√

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5.2		Class A				Class G			Class J				Class R		Class S	Class H
5.2	Permitted - Only If it shows "✓" Prohibited - If it shows "X"	8Cyl	6Cyl	4Cyl	4 Cyl	ARV6	6Cyl	6Cyl	Aero	8 Cyl	Baby Doll, +4 SS, & Class D (9)	4Cyl. Class from D (2-8)	6Cyl	+4	+4	8 Cyl
5.2	Maximum engine capacities	4600	3726	2500	2000	3726	3726	3000	4600	3999 / 4600	2000	2000	2999	2000	2000	3612
5.6.1.3	Morgan style front cowl Superform Ali, Steel or Fibre glass with strengthening	✓	✓	✓	✓					✓		✓				
5.6.1.4	Front Bumper mounted front air dams or spoiler - Material Free - Drawing 1 Appendix 3	✓	✓	✓	✓		✓	✓	✓	✓						
5.6.1.4	Max protrusion of splitter 7.5cm following contours of air dam, or spoiler except Aero 8 / GTN	✓	✓	✓	✓		✓	✓	✓	✓						
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	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
5.6.1.4	Front Wing mounted spoiler - Material Free - see Drawing 3, Appendix 3	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
5.6.1.4	Diffuser behind the rear axle line - must not protrude beyond rear bodywork								✓							
5.6.1.4	Air Cleaners Max 10 mm above bonnet line	✓														
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	127mm								✓						✓	
5.6.1.5	130 mm					✓	✓	✓		✓			✓	✓		✓
5.6.2	Bodywork Prohibited															
5.6.2.4	Rear mounted aerofoils or spoilers	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5.8.1	Suspensions															
5.8.1	Match a Std Morgan Front frame in material & dimensions	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
5.8.1	Match the Std Rocker arm & inboard damper arrangements in material & dimensions								✓							
5.8.1	Front Frame position Free	✓	✓	✓	✓											
5.8.1	Front Frame lower tube position (max 22mm to bottom of Z section)					✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
5.8.1	Reinforcing of Frame Front without removal of material	✓	✓	✓	✓											
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	Morgan stub axles & wishbones								✓							
5.8.1	Strengthening of wishbones								✓							
5.8.1	Replacement of damper blades with Roller Bearings	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
5.8.1	Adjustable camber plates	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
5.8.1	Front Wheel Castor & Camber - Free	✓	✓	✓	✓				✓							✓
5.8.1	Front Wheel - Max Camber 2 Degree & Castor 6 degrees (+ or - 1/4)										✓	✓			✓	
5.8.1	Front Wheel - Max Camber 1 Degree & Castor 6 degrees (+ or - 1/4)					✓	✓	✓		✓			✓	✓		✓

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5.2	Maximum engine capacities	4600	3726	2500	2000	3726	3726	3000	4600	3999 / 4600	2000	2000	2999	2000	2000	3612
5.8.1	Rear wheel camber - Max 1° (Max 59mm Dia Axle Tubes)	✓	✓	✓	✓											
5.8.1	Shock absorbers - Free	✓	✓	✓	✓											
5.8.1	Shock absorbers—single action adjustable dampening					✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗
5.8.1	Shock absorbers - Single or Double action adjustable damping 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	2.25" Dia Adjustable platform front springs	✓	✓	✓	✓				✓							
5.8.1	Front & Rear spring lengths free (Coil only)	✓	✓	✓	✓											
5.8.1	Front Anti Roll Bar (SLR Only D6)	✓	✓	✓	✓				✓							
5.8.1	Rear anti Roll Bar	✓	✓	✓	✓				✓							
5.8.1	Rear damper mountings free	✓	✓	✓	✓											
5.8.1	Rutherford rear damper mounting brackets									✓		✓				✓
5.8.1	Std Morgan Rear damper mounting hoop					✓	✓	✓		✓	✓	✓	✓	✓	✓	
5.8.1	Lateral axle location free	✓	✓	✓	✓											
5.8.1	Panhard Rod	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
5.8.1	Rear anti-tramp bars - max 2	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		
5.8.1	Axle Top or bottom Links	✓	✓	✓	✓											
5.8.1	Use min of 3 Std Morgan rear semi-elliptical Leaf Springs	✓	✓	✓	✓											
5.8.1	Use of min 4 Std Morgan semi-elliptical Leaf Springs					✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
5.8.1	Rear Spring Rates Free - Coil	✓	✓	✓	✓	✓	✗		✓							
5.8.1	Use of axle Lowering blocks and or centralising block	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓
5.8.1	Use of H/Duty U-Bolts	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
5.8.1	Adjustable coil over dampers on Rear	✓	✓	✓	✓											
5.8.1	Independent rear suspension								✓							
5.8.1	Morgan production 5 link rear suspension consisting of Trailing arms, live axle, coil overs & panhard rod		✓			✓	✓									
5.8.3	Max Wheelbase															
5.8.3	Wheelbase Free	✓	✓	✓	✓											
5.8.3	245cm + or - 10mm											✓				
5.8.3	250cm + or - 10mm					✓	✓	✓		✓	✓		✓	✓	✓	✓
5.8.3	253cm + or - 10mm								✓							
5.8.3	Max Front Track (Centre of Tyre to Centre of Tyre)															
5.8.3	Track - Free	✓	✓	✓	✓											
5.8.3	130cm + or - 10mm										✓	✓				
5.8.3	134.5cm + or - 10mm												✓	✓	✓	
5.8.3	137.5 cm + or - 10mm															✓
5.8.3	143 cm + or - 10mm					✓	✓	✓		✓						
5.8.3	Max Rear Track (Centre of Tyre to Centre of Tyre)															
5.8.3	Track - Free	✓	✓	✓	✓											
5.8.3	138cm + or - 10mm												✓			

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5.2	Maximum engine capacities	4600	3726	2500	2000	3726	3726	3000	4600	3999 / 4600	2000	2000	2999	2000	2000	3612
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.6.1.2	Dash board instrumentation - Free	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	<u>Wheels / Steering</u>															
5.12.1	Alternative Steering Column (collapsible section recommended)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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	<u>Wheels</u>															
5.12.1	Any Make or Design - Steel or Aluminium	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.1	Fronts															
5.12.4	Max size 9" x 16" front	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.1	Rears															
5.12.4	Max size 10" x 17" rears	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.4	Front & Rear															
5.12.4	Max size 9" x 18"	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.4	Max size 7" x 16" Alloy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.4	Std Morgan style Minilite max size 7" x 15" alloy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.4	Std Morgan style max size 6.5" x 15" alloy	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.4	Max size 6" x 15" Alloy, Steel or Wire	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
5.12.2	<u>Wheels Prohibited</u>															
5.12.2	Magnesium wheels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5.13	<u>Tyres</u>															
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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

