Para	MSA Blue Book Regulations apply to all appendices	AR Motorsport Morgan Technical Regulations 2019															
	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					√												

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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	
6.6.1.4	Additional bonnet side scoop					√	√	√	√	√	√	√	√	√	√			
5.6.1.4	Spare wheel aperture cover	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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 -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	√																

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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	
5.8.1	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					√	√	√	√	√	√	√			√			
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 - 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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	

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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	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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
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 apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.3	Batteries position & type free - MSA Regulations apply	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.10.4	Fully working generators - Type and make of generator free, 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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	

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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	**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					√	√	√	√	√	√	√	√	√	√			
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	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**																	

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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	Rover	Rover	X Flo	Zetec		Fiat	TR	TR	M/T	Sigma	Dura		Sig	Dura					
			4 Spd	4 Spd	5 Spd	2	4	4	5	6	6	7	8	9	1-7	8	9					
5.2	Maximum engine capacities	3900	3612	3612	3612	1700	1814	1998	2100	2000	2300	2100	1700	2000		1600	2000					
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	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√					

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Appendix 2

Classes C - D - E & I

Para		Class C	Class D											Class E										Class I
5.2		8Cyl	Moss	Rover	Rover	X Flo	Zetec		Fiat	TR	M/T	Sigma	Dura	Pre X	X Flo	CVH	Zetec	Fiat	TR	TR	M/T	Sigma	Dura	
	Permitted - Only If it shows "√"		4 SPD	4 Spd	5 Spd			inc 170						1	2	3	4	5	6	6	7	8	9	
	Prohibited - If it shows "X"	Rover	Rover	Rover	Rover	Ford Kent	Zetec	Zetec	Fiat	TR	Rover M / T	Ford Sigma	Duratec I4	Ford Kent	Ford Kent	Ford CVH	Zetec	Fiat	TR	TR	Rover M / T	Ford Sigma	Duratec I4	
5.2	**Max Capacity cc**	4000	3612	3612	3612	1700	1814	1998	2100	2300	2100	1700	2000	1598	1700	1700	1800	2000	2000	2238	2000	1600	2000	
5.7	**Engine General**																							
	Blocks																							
5.7.1	Std block production castings	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	Cross bolted blocks	√																						
5.7.1	P6 or SD1 Block or Cocast castings or forgings	√	√	√	√																			
5.7.1	Std bore + rebore up to maximum capacity	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.2	**Engine Prohibited**																							
5.7.1	**Heads**																							
5.7.1	Std production Head Casting	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	Use of production Twin cam heads						√	√	√		√	√	√				√	√			√	√	√	
5.7.1	P6 or SD1 Heads or Cocast castings or forgings	√	√	√	√																			
5.7.1	Modified cylinder heads, No adding of material, Std production valves							√	√		√						√	√			√			
5.7.1	Modified heads, but No adding of material					√	√	√	√	√	√	√		√	√	√			√	√				
5.7.1	Valve sizes - Free					√	√			√		√		√	√				√	√				
5.7.1	Omex valve springs. Part No: OMEP 4022												√											
5.7.1	Uprated valve springs	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	**Crankshafts & Conrods**																							
5.7.1	~~Std stroke~~	~~√~~	~~√~~	~~√~~	~~√~~		~~√~~	~~√~~	~~√~~		~~√~~		~~√~~			~~√~~	~~√~~	~~√~~			~~√~~	~~√~~	~~√~~	
5.7.1	Crankshaft free - Std firing order					√				√				√	√	√			√	√				
5.7.1	Connecting rods - Free					√				√		√		√	√	√			√	√				
5.7.1	Harmonic dampers & front pulleys free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	Balancing Permitted	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	HD Con Rod Bolts	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	**Pistons**																							
5.7.1	Pistons - Free					√	√	√	√	√	√	√		√	√	√			√	√				
5.7.1	Pistons free may protrude above cylinder block									√		√				√		√	√					
5.7.1	Balancing Permitted	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	**Compression ratio**																							
5.7.1	Compression ratio - Free									√				√	√	√			√	√				
5.7.1	Max compression ratio 12.5:1					√						√												
5.7.1	Max compression ratio 11.5:1						√																	
5.7.1	Max compression ratio 11:1							√	√		√						√					√		
5.7.1	Max compression ratio 10.5:1		√										√					√			√		√	
5.7.1	Max compression ratio 9.75:1	√																						
5.7.1	Max compression ratio 9.35:1			√	√																			
5.7.1	**Engine RPM**																							
5.7.1	Engine RPM - Free					√								√					√	√				
5.7.1	Max Engine RPM 8250											√												
5.7.1	Max Engine RPM 7600														√									

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Classes C - D - E & I

Para		Class C	Class D											Class E										Class I
5.2		8Cyl	Moss	Rover	Rover	X Flo	Zetec		Fiat	TR	M/T	Sigma	Dura	Pre X	X Flo	CVH	Zetec	Fiat	TR	TR	M/T	Sigma	Dura	
	Permitted - Only If it shows "√"		4 SPD	4 Spd	5 Spd			inc 170						1	2	3	4	5	6	6	7	8	9	
	Prohibited - If it shows "X"	Rover	Rover	Rover	Rover	Ford Kent	Zetec	Zetec	Fiat	TR	Rover M / T	Ford Sigma	Duratec I4	Ford Kent	Ford Kent	Ford CVH	Zetec	Fiat	TR	TR	Rover M / T	Ford Sigma	Duratec I4	
5.2	**Max Capacity cc**	4000	3612	3612	3612	1700	1814	1998	2100	2300	2100	1700	2000	1598	1700	1700	1800	2000	2000	2238	2000	1600	2000	
5.7.1	Max Engine RPM 7500						√	√	√	√						√	√		√	√				
5.7.1	Max Engine RPM 7000										√		√									√	√	
5.7.1	Max Engine RPM 6500	√																√			√			
5.7.1	Max Engine RPM 6250		√	√	√																			
5.7.1	**Camshafts**																							
5.7.1	Cam shaft - Free - position in block or head Std					√				√				√	√	√			√	√				
5.7.1	Std cams	√															√				√	√	√	
5.7.1	Std P6 or SD1		√	√	√																			
5.7.1	Omex - Inlet cam. Or Kent - OMC005. Omex -Exhaust cam. Or Kent: OMC006.												√											
5.7.1	Propriety manufactured & available Camshafts Maximum Duration 285°						√	√	√		√	√												
5.7.1	Timing chain assembly - Free					√			√	√				√	√	√			√	√				
5.7.1	Cam belt assembly - Free						√	√					√											
5.7.1	Chain & belt guides - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.1	Solid Lifters								√															
5.7.1	Followers - Free	√	√	√	√	√			√	√				√	√	√		√	√	√				
5.7.1	Ali or Steel rocker arms - Std Ratio	√	√	√	√																			
5.7.1	Modified rocker arms					√				√				√	√	√			√	√				
5.7.1	Steel or Ali pillars with Outrigger Supports					√				√				√	√	√			√	√				
5.7.1	Camshaft / valve / head configurations not used by MMC in production - (SLR only)									√														
5.7.4	**Lubrication**																							
5.7.4	Oil Coolers	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.4	Dry Sumping					√								√	√	√								
5.7.4	Modified / Reduced depth sump, baffling & modified oil pick up	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.9.1	**Clutch & Flywheel**																							
5.9.1	Flywheel - Free					√				√				√	√				√	√				
5.9.1	Clutch Size - Free					√				√				√	√				√	√				
5.9.1	Lightened Flywheel	√	√	√	√		√	√	√		√					√	√	√			√			
5.9.1	Solid replacement for dual mass flywheel, at 75% of Std weight											√	√									√	√	
5.9.1	Balancing Permitted	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.4	**Cooling**																							
5.7.4	Cooling system - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.7.7	**Ignition Systems**																							
5.7.7	Ignition / ECU - Free					√	√	√	√		√	√	√				√							
5.7.7	Std Morgan production ECU system																				√		√	
5.7.7	Morgan challenge ECU system	√																						
5.7.7	Challenge series approved Omex Ecu																					√		
5.7.7	Ecu's are liable to be changed by the organisers for another of the same type & specification	√																			√	√	√	

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Classes C - D - E & I

Para		Class C	Class D											Class E										Class I
5.2		8Cyl	Moss	Rover	Rover	X Flo	Zetec		Fiat	TR	M/T	Sigma	Dura	Pre X	X Flo	CVH	Zetec	Fiat	TR	TR	M/T	Sigma	Dura	
	Permitted - Only If it shows "√"		4 SPD	4 Spd	5 Spd			inc 170						1	2	3	4	5	6	6	7	8	9	
	Prohibited - If it shows "X"	Rover	Rover	Rover	Rover	Ford Kent	Zetec	Zetec	Fiat	TR	Rover M / T	Ford Sigma	Duratec I4	Ford Kent	Ford Kent	Ford CVH	Zetec	Fiat	TR	TR	Rover M / T	Ford Sigma	Duratec I4	
5.2	**Max Capacity cc**	4000	3612	3612	3612	1700	1814	1998	2100	2300	2100	1700	2000	1598	1700	1700	1800	2000	2000	2238	2000	1600	2000	
5.7.7	Electronic Ignition (not programmable on carb / injection / distributer cars)	√	√	√	√					√				√	√	√		√	√	√				
5.7.5	**Induction & Fuel systems**																							
5.7.5	Std production inlet manifold & trumpet bases to air cleaner	√	√	√	√				√		√							√			√		√	
5.7.5	Change of Inlet Manifold					√	√	√	√	√	√			√	√	√	√		√	√				
5.7.5	Cable Operated Throttle	√	√	√	√	√	√	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√	
5.7.5	SU / Stromberg carbs 1.75" max of 2	√	√	√	√														√	√				
5.7.5	Maximum 2 x twin choke carburettors 40mm choke														√	√	√	√						
5.7.5	Maximum 2 x twin choke carburettors 45mm choke						√	√	√	√				√					√					
5.7.5	Maximum 2 x twin choke carburettors 48mm choke					√																		
5.7.5	42mm throttle body kit											√										√		
5.7.5	45 mm throttle body kit												√											
5.7.5	45mm throttle body's					√	√	√	√		√													
5.7.5	Position of Mass air flow meter Free	√																						
5.7.5	Challenge fuel chip (14 CUX)	√																						
5.7.5	Bosch EV6 Injectors	√																						
5.7.5	Carb Needles - Free	√	√	√	√					√									√	√				
5.7.8	Adjustable Fuel pressure regulator Injection					√	√	√	√		√	√	√								√			
5.7.8	Adjustable Fuel pressure regulator Carbs	√	√	√	√	√	√	√	√	√				√	√	√	√	√	√	√				
5.7.8	Fuel Pumps injection - Free					√	√	√	√	√		√	√											
5.7.8	Fuel Pumps Carbs - Free	√	√	√	√	√	√	√	√	√	√			√	√	√	√	√	√	√	√			
5.7.8	Only Std Fuel Pumps - injection	√														√	√	√			√	√	√	
5.7.5	Air cleaner - Free	√	√	√	√	√	√	√	√	√	√	√		√	√	√	√	√	√	√	√			
5.7.5	Air Filter element free - must fit Std housing																					√	√	
5.7.5	Remove blanking plate above Radiator and extend air intake to duct cold air into Std air filter housing																					√		
5.7.6	**Exhaust system**																							
5.7.6	Exhaust manifold - Naturally aspirated - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		√	
5.7.6	Silencers free (Comply with MSA)	√	√	√	√	√	√	√	√	√	√	√		√	√	√	√	√	√	√	√	√	√	
5.7.6	Std or Race catalytic converters fitted (after 31st December 1999) MSA regulations apply	√					√	√				√					√					√	√	
5.14	**Weights**																							
5.14	Weights - Kg (With Driver complete with helmet, suit, gloves, overalls and 3 litres of fuel)	980	935	950	950	780	850	880	900	800	800	870	900	800	825	850	875	875	875	875	850	875	850	
5.14	Ballast position - Free	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
3.2	Weight review applicable (see sporting regs)	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	
5.4	**Registered disabled drivers**																							
5.4	Disabled persons operational modifications	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

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