



5TH CATEGORY - HISTORIC RACING  
**GROUP S**  
 APPROVED VEHICLE SPECIFICATION

This form details the approved specifications of individual vehicle models in the 5th Category Historic car group. To be issued with an Historic Log Book, cars need to comply with these specifications, the physical appearance shown in the illustrations and the general historic rules as detailed in the current Motorsport Australia Manual.

<b>Make of Car:</b>	Morgan	<b>Model:</b>	Plus 8 (Moss Box)
<b>Period of Original Manufacture:</b>	1968 - 1972		
<b>Motorsport Australia Historic Group:</b>	Sb		
<b>Date of Issue of this Document:</b>	30/6/2022		



***Update Log***

30/6/2022	Document layout

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

<b>Description:</b>	Steel "Z" section
<b>Period of Manufacture:</b>	1968 - 1972
<b>Manufacturer:</b>	Morgan Motor Company
<b>Chassis Number From:</b>	7000 – 7494
<b>Chassis Number location:</b>	Behind driver's seat on top of chassis member and sometimes noted on bulkhead
<b>Material:</b>	Mild Steel
<b>Comments</b>	None

### 1.2. FRONT SUSPENSION

<b>Description:</b>	Independent, sliding pillar with vertical coil springs		
<b>Spring Medium:</b>	Coils		
<b>Damper Type:</b>	Tubular	<b>Adjustable:</b>	No
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Spring rates and ride height are free		

### 1.3. REAR SUSPENSION

<b>Description:</b>	Non-independent		
<b>Spring Medium:</b>	Semi elliptic leaf springs		
<b>Damper Type:</b>	Armstrong – lever arm	<b>Adjustable</b>	No
<b>Anti-sway bar:</b>	No	<b>Adjustable:</b>	N/A
<b>Suspension adjustable:</b>	No	<b>Method:</b>	N/A
<b>Comments:</b>	Spring rates and ride height are free. Lever arm dampers may be replaced with tubular dampers. Panhard rod not approved.		

### 1.4. STEERING

<b>Type:</b>	Cam gear	<b>Make:</b>	Burman or Gemmer
<b>Comments</b>	None		

### 1.5. BRAKES

	Front	Rear
<b>Type:</b>	Disc	Drum
<b>Dimensions:</b>	279.4 mm	228.6 mm
<b>Material of drum/disc:</b>	Cast iron	Cast iron
<b>No. cylinders/pots per wheel:</b>	One	One
<b>Actuation:</b>	Hydraulic	Hydraulic
<b>Caliper make:</b>	Girling	
<b>Caliper type:</b>		
<b>Material:</b>	Cast iron	
<b>Master cylinder make:</b>	Girling	
<b>Type:</b>	Single	
<b>Adjustable bias:</b>	No	
<b>Servo Fitted:</b>	Yes	
<b>Comments:</b>	Tandem master cylinder allowed	

## SECTION 2 - ENGINE

### 2.1. ENGINE

<b>Make:</b>	Rover		
<b>Model:</b>	3.5 litre v8		
<b>No. cylinders:</b>	Eight	<b>Configuration:</b>	Vee
<b>Cylinder Block-material:</b>	Cast aluminium	<b>Two/Four Stroke:</b>	Four
<b>Bore - Original:</b>	88.9 mm	<b>Max allowed:</b>	90.4 mm
<b>Stroke - original:</b>	71.1 mm	<b>Max allowed:</b>	71.1 mm
<b>Capacity - original:</b>	3528 cc	<b>Max allowed:</b>	3648 cc
<b>Engine number range</b>	41400001A to 41300035		
<b>Identifying marks:</b>	Engine number/compression ratio stamped near side rear of engine		
<b>Cooling method:</b>	Liquid		
<b>Comments:</b>	None		

### 2.2. CYLINDER HEAD

<b>Make:</b>	Rover		
<b>No. of valves/cylinder:</b>	Two	<b>Inlet:</b>	One
		<b>Exhaust:</b>	One
<b>No. of ports total:</b>	Eight	<b>Inlet:</b>	Four
		<b>Exhaust:</b>	Four
<b>No. of camshafts:</b>	One	<b>Location:</b>	Block
		<b>Drive:</b>	Chain
<b>Valve actuation:</b>	Pushrods		
<b>Spark plugs/cylinder:</b>	One		
<b>Identifying marks:</b>	N/A		
<b>Comments:</b>	None		

### 2.3. LUBRICATION

<b>Method:</b>	Wet sump	<b>Oil tank location:</b>	N/A
<b>Dry sump pump type:</b>	N/A	<b>Location:</b>	N/a
<b>Oil cooler standard:</b>	No	<b>Location:</b>	N/A
<b>Comments:</b>	Oil cooler allowed		

### 2.4. IGNITION SYSTEM

<b>Type:</b>	Points, Coil and Distributor		
<b>Make:</b>	Lucas		
<b>Comments</b>	None		

### 2.5. FUEL SYSTEM

<b>Carburettor Make:</b>	SU	<b>Model:</b>	HS6
<b>Carburettor Number:</b>	Two		
<b>Size:</b>			
<b>Fuel injection Make:</b>	N/A	<b>Type:</b>	N/A
<b>Supercharged:</b>	No	<b>Type:</b>	N/A
<b>Comments:</b>	Carburettor bore size unrestricted		

## SECTION 3 - TRANSMISSION

### 3.1. CLUTCH

<b>Make:</b>	Borg and Beck
<b>Type:</b>	Dry plate
<b>Diameter:</b>	203 mm
<b>No. of Plates:</b>	One
<b>Actuation:</b>	Hydraulic
<b>Comments:</b>	Nonre

### 3.2. TRANSMISSION

<b>Type:</b>	
<b>Make:</b>	Moss
<b>Gearbox location:</b>	Mid car, connected to engine by torque bar
<b>No. forward speeds:</b>	Four
<b>Gearchange type and location:</b>	Floor, direct
<b>Case material:</b>	Cast iron
<b>Identifying marks:</b>	
<b>Comments:</b>	Internal components and ratios are free

### 3.3. FINAL DRIVE

<b>Make:</b>	Salisbury	<b>Model:</b>	
<b>Wheel drive</b>	Rear		
<b>Ratios:</b>	3.58:1		
<b>Differential type:</b>	Hypoid Limited slip		
<b>Comments:</b>	Internal components and ratios are free		

### 3.4. TRANSMISSION SHAFTS (EXPOSED)

<b>Number:</b>	One
<b>Location:</b>	Between gearbox and differential
<b>Description:</b>	Tubular with universal joints
<b>Comments:</b>	None

### 3.5. WHEELS & TYRES

<b>Wheel type - Original:</b>	Cast alloy	<b>Material - Original:</b>	Magnesium
<b>Wheel type - Allowed:</b>	Cast alloy	<b>Material - Allowed:</b>	Magnesium
<b>Fixture method:</b>	Bolt on	<b>No. studs:</b>	Five
<b>Wheel dia. &amp; rim width</b>	<b>FRONT</b>		<b>REAR</b>
<b>Original:</b>	5.5" x 15"		5.5" x 15"
<b>Allowed</b>	6" x 15"		6" x 15"
<b>Tyre Section:</b>			
<b>Original:</b>	185 x 15"		185 x 15"
<b>Allowed:</b>	205 x 15"		205 x 15"
<b>Aspect ratio - minimum:</b>	60% minimum aspect ratio.		
<b>Comments:</b>	Refer approved tyre list. Rim size and tyre size limited to combination that will fit under standard wheel arch		

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

<b>Tank Location:</b>	Under spare wheel	<b>Capacity:</b>	62.3 litres
<b>Fuel pump, type:</b>	Mechanical	<b>Make:</b>	AC
<b>Comments:</b>	Electric fuel pump allowed		

### 4.2. ELECTRICAL SYSTEM

<b>Voltage:</b>	Twelve	<b>Alternator fitted:</b>	Alternator
<b>Battery Location:</b>	Behind seats		
<b>Comments:</b>	None		

### 4.3. BODYWORK

<b>Type:</b>	Open Sports	<b>Material:</b>	Steel and/or Alloy on ash frame. Floors laminated plywood or metal sheeting
<b>No. of seats:</b>	Two	<b>No. doors:</b>	Two
<b>Comments:</b>	Hardtop allowed. Materials used will depend on specifications of original owner		

### 4.4. DIMENSIONS

<b>Track - Front:</b>	1250 mm	<b>Rear:</b>	1300 mm
<b>Wheelbase:</b>	2500 mm	<b>Overall length:</b>	3875 mm
<b>Dry weight:</b>	860 kg		
<b>Comments:</b>	Due to hand made nature of this vehicle, some variations in body dimensions are likely during the period of production		

### 4.5. OPTIONAL EQUIPMENT

<b>Comments:</b>	<p>Being hand built, the Morgan Plus 8 could be tailored to the requirements of the individual owner.</p> <p>The Company's policy has always been that the customers can have whatever he/she wants. In particular, with its long competition history, the Morgan Motor Company offered a number of options or modifications to enhance the vehicle's reliability or performance. These include:</p> <ul style="list-style-type: none"><li>• Folding windscreen;</li><li>• Spot lights;</li><li>• Aero screens</li><li>• Uprated springs;</li><li>• Oil cooler;</li><li>• Front undertray for ducting air to oil cooler;</li><li>• Alloy body panels;</li><li>• Rear tubular shock absorbers;</li><li>• Roll bars.</li></ul>
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### 4.6. SAFETY EQUIPMENT

Refer applicable Group Regulations
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**Appendix**