

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.

Make of Car:	Daimler	Model:	SP 250 (DART)
Period of Original Manufacture:	1959 – 1963		
Motorsport Australia Historic Group:	Sa		
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Update Log

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SECTION 1 - CHASSIS

1.1. CHASSIS

Description:	Steel channel frame
Period of Manufacture:	1959 – 1963
Manufacturer:	Daimler
Chassis Number From:	1959 – 100011 (LHD) 1959 – 10057 (RHD) 1960 – 100599 1961 – 102645 1962 – 103883 1963 - 104002
Chassis Number location:	Front cross member
Material:	Mild steel
Comments	None

1.2. FRONT SUSPENSION

Description:	Independent – wishbone		
Spring Medium:	Coil		
Damper Type:	Telescopic	Adjustable:	No
Anti-sway bar:	Not fitted	Adjustable:	N/A
Suspension adjustable:	Yes	Method:	Shims (not fitted)
Comments:	No Panhard rod or radius arm fitted as standard		

1.3. REAR SUSPENSION

Description:	Live axle		
Spring Medium:	Semi elliptic		
Damper Type:	Lever arm – Armstrong	Adjustable	No
Anti-sway bar:	Not fitted	Adjustable:	N/A
Suspension adjustable:	No	Method:	N/A
Comments:	No Panhard rod or radius arm fitted as standard		

1.4. STEERING

Type:	Cam and Lever	Make:	Alford and Adler
Comments	Conversion to rack and pinion is not approved		

1.5. BRAKES

	Front	Rear
Type:	Disc	Disc
Dimensions:	270 mm x 10.625 mm	254 mm x 10.00 mm
Material of drum/disc:	Cast iron	Cast iron
No. cylinders/pots per wheel:	Two	Two
Actuation:	Hydraulic	Hydraulic
Caliper make:	Girling	
Caliper type:	Fixed	
Material:	Aluminium	
Master cylinder make:	Girling	
Type:	Single	
Adjustable bias:	No	
Servo Fitted:	No	
Comments:	None	

SECTION 2 - ENGINE

2.1. ENGINE

Make:	Daimler		
Model:	SP250		
No. cylinders:	Eight	Configuration:	Ve
Cylinder Block-material:	Cast iron	Two/Four Stroke:	Four
Bore - Original:	76.2 mm	Max allowed:	77.7 mm
Stroke - original:	69.9 mm	Max allowed:	69.9 mm
Capacity - original:	2549 cc	Max allowed:	2651 cc
Identifying marks:			
Cooling method:	Liquid		
Comments:	None		

2.2. CYLINDER HEAD

Make:	Daimler		
No. of valves/cylinder:	Two	Inlet:	One
		Exhaust:	One
No. of ports total:	Sixteen	Inlet:	Eight
		Exhaust:	Eight
No. of camshafts:	One	Location:	Block
		Drive:	Chain
Valve actuation:	Overhead valve		
Spark plugs/cylinder:	One		
Identifying marks:			
Comments:	None		

2.3. LUBRICATION

Method:	Wet sump	Oil tank location:	N/A
Dry sump pump type:	N/A	Location:	N/a
Oil cooler standard:	No	Location:	N/A
Comments:	None		

2.4. IGNITION SYSTEM

Type:	Points, Coil and Distributor		
Make:	Lucas		
Comments:	None		

2.5. FUEL SYSTEM

Carburettor Make:	SU	Model:	HD6
Carburettor Number:	Two		
Size:	1¾"		
Fuel injection Make:	N/A	Type:	N/A
Supercharged:	No	Type:	N/A
Comments:	None		

SECTION 3 - TRANSMISSION

3.1. CLUTCH

Make:	Borg and Beck
Type:	Diaphragm
Diameter:	226 mm
No. of Plates:	One
Actuation:	Hydraulic
Comments:	None

3.2. TRANSMISSION

Type:	Four speed - synchromesh in top three gears
Make:	Triumph
Gearbox location:	Behind engine
No. forward speeds:	Four
Gearchange type and location:	Central floor shift
Case material:	Aluminium
Identifying marks:	
Comments:	None

3.3. FINAL DRIVE

Make:	Salisbury	Model:	7HA
Wheel drive method	Rear		
Ratios:	3.58		
Differential type:	Hypoid		
Comments:	Ratios free Limited slip diff allowed		

3.4. TRANSMISSION SHAFTS (EXPOSED)

Number:	One
Location:	Gearbox to final drive
Description:	Tubular with universal joints
Comments:	None

3.5. WHEELS & TYRES

Wheel type - Original:	Wire spoke Steel	Material - Original:	Steel
Wheel type - Allowed:	Wire spoke Steel	Material - Allowed:	Steel
Fixture method:	Knock on (wire Stud	No. studs:	Four
Wheel dia. & rim width	FRONT	REAR	
Original:	4.5" x 15"	4.5" x 15"	
Allowed	5" x 15"	5" x 15"	
Tyre Section:			
Original:	590 x 15"	590 x 15"	
Allowed:	195 x 15"	195 x 15"	
Aspect ratio - minimum:	60% minimum aspect ratio.		
Comments:	Refer approved tyre list.		

SECTION 4 GENERAL

4.1. FUEL SYSTEM

Tank Location:	Boot behind rear seat	Capacity:	54.5 litres
Fuel pump, type:	Electric	Make:	SU
Comments:	None		

4.2. ELECTRICAL SYSTEM

Voltage:	Twelve	Alternator fitted:	Generator
Battery Location:	LH rear Engine bay (opposite steering)		
Comments:	None		

4.3. BODYWORK

Type:	Open Sports (Detachable hardtop available)	Material:	Fibreglass
No. of seats:	Two (+2 occasional)	No. doors:	Two
Comments:	Fiberglass very thick with bracing boot and bonnet. Check weight of car.		

4.4. DIMENSIONS

Track - Front:	1270 mm	Rear:	1219.2 mm
Wheelbase:	2337 mm	Overall length:	4191 mm
Dry weight:	940 kg		
Comments:	None		

4.5. SAFETY EQUIPMENT

Refer applicable Group Regulations

Appendix