



5TH CATEGORY - HISTORIC RACING
GROUP N
 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: | Jaguar | Model: | 3.4 Mark 1 |
| Period of Original Manufacture: | 1955-1959 | | |
| Motorsport Australia Historic Group: | Nb | | |
| Date of Issue of this Document: | 1 January 2024 | | |



Refer to The *Manual*, Historic Appendix, Vehicle Eligibility, General Requirements & Historic Touring Cars Group N Regulations for permitted modifications.

Update Log

| | |
|----------|--|
| 1/1/2024 | Inclusion of kerb and minimum racing weights |
| | |
| | |

SECTION 1 - CHASSIS

1.1. CHASSIS

| | |
|---------------------------------|---|
| Description: | Uni - body |
| Period of Manufacture: | 1955 – 59 |
| Manufacturer: | Jaguar |
| Chassis Number From: | 900001-916250 = RHD, 940001 – 943742 = LHD |
| Chassis Number location: | Front radiator support panel, body number on rear floor under seat. |
| Material: | Steel |
| Comments | None |

1.2. FRONT SUSPENSION

| | | | |
|-------------------------------|---------------------------------------|--------------------|------------------------|
| Description: | Independent - upper & lower wishbones | | |
| Spring Medium: | Coil | | |
| Damper Type: | Telescopic | Adjustable: | No |
| Anti-sway bar: | Fitted | Adjustable: | No |
| Suspension adjustable: | Yes | Method: | Castor, camber and Toe |
| Comments: | Refer to Appendix A | | |

1.3. REAR SUSPENSION

| | | | |
|-------------------------------|---|--------------------|-----|
| Description: | Live rear axle with trailing arms & Panhard rod | | |
| Spring Medium: | Semi elliptical | | |
| Damper Type: | Telescopic | Adjustable: | No |
| Anti-sway bar: | No | Adjustable: | No |
| Suspension adjustable: | No | Method: | N/A |
| Comments: | Refer to Appendix A | | |

1.4. STEERING

| | | | |
|-----------------|---------------|--------------|--------|
| Type: | Worm and Ball | Make: | Burman |
| Comments | None | | |

1.5. BRAKES

| | Front | Rear |
|--------------------------------------|---------------|--------------|
| Type: | Disc, solid | Disc, solid |
| Dimensions: | 280 x 9.75 mm | 287 x 9.5 mm |
| Material of drum/disc: | Cast iron | Cast iron |
| No. cylinders/pots per wheel: | Three | Two |
| Actuation: | Hydraulic | Hydraulic |
| Caliper make: | Dunlop | Dunlop |
| Caliper type: | Fixed | Fixed |
| Material: | Cast iron | Cast iron |
| Master cylinder make: | Girling | |
| Type: | Single | |
| Adjustable bias: | No | |
| Servo Fitted: | Yes | |
| Comments: | None | |

SECTION 2 - ENGINE

2.1. ENGINE

| | | | |
|---------------------------------|---|-------------------------|----------|
| Make: | Jaguar | | |
| Model: | 3.4 | | |
| No. cylinders: | Six | Configuration: | In-line |
| Cylinder Block-material: | Cast iron | Two/Four Stroke: | Four |
| Bore - Original: | 83.0 mm | Max allowed: | 84.5 mm |
| Stroke - original: | 106.9 mm | Max allowed: | 106.0 mm |
| Capacity - original: | 3441 cc | Max allowed: | 4499 cc |
| Identifying marks: | N/A | | |
| Cooling method: | Liquid | | |
| Comments: | Refer to class regulations re Bore and Stroke | | |

2.2. CYLINDER HEAD

| | | | |
|--------------------------------|--|-----------------------|---------------------|
| Make: | Jaguar | | |
| No. of valves/cylinder: | Two | Inlet: One | Exhaust: One |
| No. of ports total: | Twelve | Inlet: Six | Exhaust: Six |
| No. of camshafts: | Two | Location: Head | Drive: Chain |
| Valve actuation: | Buckets | | |
| Spark plugs/cylinder: | One | | |
| Identifying marks: | N/A | | |
| Comments: | Early 'B' type head only. Straight port head not acceptable. | | |

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 & distributor | | |
| Make: | Lucas | | |
| Comments | Breakerless electronic ignition permitted | | |

2.5. FUEL SYSTEM

| | | | |
|-----------------------------|---------|---------------|-----|
| Carburettor Make: | SU | Model: | HD6 |
| Carburettor Number: | Two | | |
| Size: | 44.5 mm | | |
| Fuel injection Make: | N/A | Type: | N/A |
| Supercharged: | No | Type: | N/A |
| Comments: | None | | |

SECTION 3 - TRANSMISSION

3.1. CLUTCH

| | |
|-----------------------|-------------|
| Make: | Borg & Beck |
| Type: | Diaphragm |
| Diameter: | 250 mm |
| No. of Plates: | Borg & Beck |
| Actuation: | Hydraulic |
| Comments: | None |

3.2. TRANSMISSION

| | |
|--------------------------------------|---|
| Type: | Non-Synchromesh with optional electronic overdrive |
| Make: | Jaguar |
| Gearbox location: | Behind engine |
| No. forward speeds: | Four with overdrive |
| Gearchange type and location: | H pattern floor mounted |
| Case material: | Cast iron |
| Identifying marks: | N/A |
| Comments: | Early Moss box only (Reverse across to passengers side and forward or up) |

3.3. FINAL DRIVE

| | | | |
|---------------------------|---|---------------|-----|
| Make: | Jaguar | Model: | 4HA |
| Type: | Live axle | | |
| Ratios: | Various | | |
| Differential type: | Open/Free | | |
| Comments: | Differential type is cast onto differential case. | | |

3.4. TRANSMISSION SHAFTS (EXPOSED)

| | |
|---------------------|-------------------------------------|
| Number: | One |
| Location: | Gearbox to final drive |
| Description: | Open tailshaft with twin uni joints |
| Comments: | Steel |

3.5. WHEELS & TYRES

| | | | |
|-----------------------------------|---------------------------|-----------------------------|-------------|
| Wheel type - Original: | Wire | Material - Original: | Steel spoke |
| Wheel type - Allowed: | Period cast | Material - Allowed: | Alloy |
| Fixture method: | Studs | No. studs: | Five |
| Wheel dia. & rim width | FRONT | | REAR |
| Original: | 5" x 15" | | 5" x 15" |
| Allowed | 5" x 15" | | 5" x 15" |
| Tyre Section: | | | |
| Allowed: | Refer approved tyre list. | | |
| Aspect ratio - minimum: | 60% minimum aspect ratio. | | |
| Comments: | None | | |

SECTION 4 GENERAL

4.1. FUEL SYSTEM

| | | | |
|-------------------------|-------------------|------------------|-----------|
| Tank Location: | Boot floor | Capacity: | 60 litres |
| Fuel pump, type: | Electric, in boot | Make: | Various |
| Comments: | None | | |

4.2. ELECTRICAL SYSTEM

| | | | |
|--------------------------|------------|---------------------------|-----------|
| Voltage: | 12 | Alternator fitted: | Generator |
| Battery Location: | Engine bay | | |
| Comments: | None | | |

4.3. BODYWORK

| | | | |
|----------------------|----------------|-------------------|-------|
| Type: | Closed touring | Material: | Steel |
| No. of seats: | Four | No. doors: | Four |
| Comments: | None | | |

4.4. DIMENSIONS

| | | | |
|---|---|------------------------|---------|
| Track - Front: | 1412 mm | Rear: | 1292 mm |
| Wheelbase: | 2727 mm | Overall length: | 4591 mm |
| Approved Manufacturer's kerb weight: | With overdrive – 1419 kgs Without overdrive – 1418 kgs | | |
| Approved minimum racing weight: | With overdrive – 1391 kgs Without overdrive – 1390 kgs | | |
| Comments: | None | | |

4.5. SAFETY EQUIPMENT

| |
|------------------------------------|
| Refer applicable Group Regulations |
|------------------------------------|

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.