



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>                         | Alfa Romeo  | <b>Model:</b> | 200 Spider<br>105 Series |
| <b>Period of Original Manufacture:</b>      | 1971 - 1975 |               |                          |
| <b>Motorsport Australia Historic Group:</b> | Sc          |               |                          |
| <b>Date of Issue of this Document:</b>      | 30/6/2022   |               |                          |



***Update Log***

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|-----------|-----------------|
| 30/6/2022 | Document layout |
|           |                 |
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## SECTION 1 - CHASSIS

### 1.1. CHASSIS

|                                 |                      |
|---------------------------------|----------------------|
| <b>Description:</b>             | Unitary construction |
| <b>Period of Manufacture:</b>   | 1971 – 1975          |
| <b>Manufacturer:</b>            | Alfa Romeo           |
| <b>Chassis Number From:</b>     | AR246XXXX            |
| <b>Chassis Number location:</b> | Firewall             |
| <b>Material:</b>                | Steel                |
| <b>Comments</b>                 | None                 |

### 1.2. FRONT SUSPENSION

|                               |   |                    |                              |
|-------------------------------|---|--------------------|------------------------------|
| <b>Description:</b>           | Independent by upper and lower wishbone       |                    |                              |
| <b>Spring Medium:</b>         | Coil  |                    |                              |
| <b>Damper Type:</b>           | Telescopic                                    | <b>Adjustable:</b> | No                           |
| <b>Anti-sway bar:</b>         | Yes   | <b>Adjustable:</b> | No                           |
| <b>Suspension adjustable:</b> | Yes   | <b>Method:</b>     | Adjustable upper control arm |
| <b>Comments:</b>              | Spring rates and ride heights may be adjusted |                    |                              |

### 1.3. REAR SUSPENSION

|                               |   |                    |                                 |
|-------------------------------|---|--------------------|---------------------------------|
| <b>Description:</b>           | Live axle with upper and lower trailing links |                    |                                 |
| <b>Spring Medium:</b>         | Coil  |                    |                                 |
| <b>Damper Type:</b>           | Telescopic                                    | <b>Adjustable</b>  | No                              |
| <b>Anti-sway bar:</b>         | No  | <b>Adjustable:</b> | N/A                             |
| <b>Suspension adjustable:</b> | Yes   | <b>Method:</b>     | Upper trailing links adjustable |
| <b>Comments:</b>              | None  |                    |                                 |

### 1.4. STEERING

|                 |                    |              |            |
|-----------------|--------------------|--------------|------------|
| <b>Type:</b>    | Recirculating ball | <b>Make:</b> | Alfa Romeo |
| <b>Comments</b> | None               |              |            |

### 1.5. BRAKES

|                                      | Front                                     | Rear            |
|--------------------------------------|---|-----------------|
| <b>Type:</b>                         | Disc                                      | Disc            |
| <b>Dimensions:</b>                   | 272 mm x 12.7 mm                          | 267 mm x 9.5 mm |
| <b>Material of drum/disc:</b>        | Cast iron                                 | Cast iron       |
| <b>No. cylinders/pots per wheel:</b> | Two                                       | Two             |
| <b>Actuation:</b>                    | Hydraulic                                 | Hydraulic       |
| <b>Caliper make:</b>                 | ATE                                       |                 |
| <b>Caliper type:</b>                 | Tandem                                    |                 |
| <b>Material:</b>                     | Cast iron                                 |                 |
| <b>Master cylinder make:</b>         | ATE                                       |                 |
| <b>Type:</b>                         | Single                                    |                 |
| <b>Adjustable bias:</b>              | Permitted                                 |                 |
| <b>Servo Fitted:</b>                 | Yes                                       |                 |
| <b>Comments:</b>                     | Dual or tandem master cylinders permitted |                 |

## SECTION 2 - ENGINE

### 2.1. ENGINE

|                                 |            |                         |         |
|---------------------------------|------------|-------------------------|---------|
| <b>Make:</b>                    | Alfa Romeo |                         |         |
| <b>Model:</b>                   | 105 series |                         |         |
| <b>No. cylinders:</b>           | Four       | <b>Configuration:</b>   | In line |
| <b>Cylinder Block-material:</b> | Aluminium  | <b>Two/Four Stroke:</b> | Four    |
| <b>Bore - Original:</b>         | 84 mm      | <b>Max allowed:</b>     | 85.5 mm |
| <b>Stroke - original:</b>       | 88.5 mm    | <b>Max allowed:</b>     | 88.5 mm |
| <b>Capacity - original:</b>     | 1962 cc    | <b>Max allowed:</b>     | 2031 cc |
| <b>Identifying marks:</b>       |            |                         |         |
| <b>Cooling method:</b>          | Liquid     |                         |         |
| <b>Comments:</b>                | None       |                         |         |

### 2.2. CYLINDER HEAD

|                                |  |                  |       |
|--------------------------------|--|------------------|-------|
| <b>Make:</b>                   | Alfa Romeo   |                  |       |
| <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>       | Two  | <b>Location:</b> | Head  |
|                                |  | <b>Drive:</b>    | Chain |
| <b>Valve actuation:</b>        | Buckets  |                  |       |
| <b>Spark plugs/cylinder:</b>   | One  |                  |       |
| <b>Identifying marks:</b>      | Cast on front of head<br>Symbol on front of head: Varies |                  |       |
| <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>            | None     |                           |     |

### 2.4. IGNITION SYSTEM

|                 |   |
|-----------------|---|
| <b>Type:</b>    | Points, Coil and Distributor              |
| <b>Make:</b>    | Bosch or Marelli                          |
| <b>Comments</b> | Breakerless electronic ignition permitted |

### 2.5. FUEL SYSTEM

|                             |       |               |         |
|-----------------------------|-------|---------------|---------|
| <b>Carburettor Make:</b>    | Solex | <b>Model:</b> | C40DD47 |
| <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>            | None  |               |         |

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

|                       |           |
|-----------------------|-----------|
| <b>Make:</b>          | Various   |
| <b>Type:</b>          | Diaphragm |
| <b>Diameter:</b>      | 216 mm    |
| <b>No. of Plates:</b> | One       |
| <b>Actuation:</b>     | Hydraulic |
| <b>Comments:</b>      | None      |

**3.2. TRANSMISSION**

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Type:</b>                         | 5 speed synchromesh |
| <b>Make:</b>                         | Alfa Romeo          |
| <b>Gearbox location:</b>             | Behind engine       |
| <b>No. forward speeds:</b>           | Five                |
| <b>Gearchange type and location:</b> | Central floor       |
| <b>Case material:</b>                | Aluminium           |
| <b>Identifying marks:</b>            | N/A                 |
| <b>Comments:</b>                     | None                |

**3.3. FINAL DRIVE**

|                           |                   |               |     |
|---------------------------|-------------------|---------------|-----|
| <b>Make:</b>              | Alfa Romeo        | <b>Model:</b> | 105 |
| <b>Ratios:</b>            | 4.4:1,<br>5.125:1 |               |     |
| <b>Differential type:</b> | Limited slip      |               |     |
| <b>Comments:</b>          | None              |               |     |

**3.4. TRANSMISSION SHAFTS (EXPOSED)**

|                     |  |
|---------------------|--|
| <b>Number:</b>      | One  |
| <b>Location:</b>    | Gearbox to final drive                                 |
| <b>Description:</b> | Tubular shaft with Hardie Spicer type universal joints |
| <b>Comments:</b>    | None   |

**3.5. WHEELS & TYRES**

|                                   |   |                             |                        |
|-----------------------------------|---|-----------------------------|------------------------|
| <b>Wheel type - Original:</b>     | Pressed steel   | <b>Material - Original:</b> | Steel                  |
| <b>Wheel type - Allowed:</b>      | Period alloy  | <b>Material - Allowed:</b>  | Period alloy           |
| <b>Fixture method:</b>            | Studs and nuts  | <b>No. studs:</b>           | Four                   |
| <b>Wheel dia. &amp; rim width</b> | <b>FRONT</b>  |                             | <b>REAR</b>            |
| <b>Original:</b>                  | 5.5" x 14"  |                             | 5.5" x 14"             |
| <b>Allowed</b>                    | 6" x 14"<br>6" x 15   |                             | 6" x 14"<br>6" x 15    |
| <b>Tyre Section:</b>              |   |                             |                        |
| <b>Original:</b>                  |   |                             |                        |
| <b>Allowed:</b>                   | 205 x 14"<br>205 x 15"  |                             | 195 x 16"<br>195 x 15" |
| <b>Aspect ratio - minimum:</b>    | 60% minimum aspect ratio.   |                             |                        |
| <b>Comments:</b>                  | Refer approved tyre list.<br>Tyre section chosen must suit rim dimensions |                             |                        |

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## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

|                         |                       |                  |           |
|-------------------------|-----------------------|------------------|-----------|
| <b>Tank Location:</b>   | In boot               | <b>Capacity:</b> | 51 litres |
| <b>Fuel pump, type:</b> | Mechanical, on engine | <b>Make:</b>     | Fispa     |
| <b>Comments:</b>        | None                  |                  |           |

### 4.2. ELECTRICAL SYSTEM

|                          |            |                           |            |
|--------------------------|------------|---------------------------|------------|
| <b>Voltage:</b>          | Twelve     | <b>Alternator fitted:</b> | Alternator |
| <b>Battery Location:</b> | Engine bay |                           |            |
| <b>Comments:</b>         | None       |                           |            |

### 4.3. BODYWORK

|                      |      |                   |       |
|----------------------|------|-------------------|-------|
| <b>Type:</b>         | Open | <b>Material:</b>  | Steel |
| <b>No. of seats:</b> | Two  | <b>No. doors:</b> | Two   |
| <b>Comments:</b>     | None |                   |       |

### 4.4. DIMENSIONS

|                       |         |                        |         |
|-----------------------|---------|------------------------|---------|
| <b>Track - Front:</b> | 1324 mm | <b>Rear:</b>           | 1274 mm |
| <b>Wheelbase:</b>     | 2250 mm | <b>Overall length:</b> | 4120 mm |
| <b>Dry weight:</b>    | 960 kg  |                        |         |
| <b>Comments:</b>      | None    |                        |         |

### 4.5. SAFETY EQUIPMENT

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

**Appendix**