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| 5TH CATEGORY - HISTORIC RACING<br><b>GROUP S</b><br>APPROVED VEHICLE SPECIFICATION |
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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>                         | Fiat        | <b>Model:</b> | 124 AC Sport Coupe |
| <b>Period of Original Manufacture:</b>      | 1967 – 1969 |               |                    |
| <b>Motorsport Australia Historic Group:</b> | Sb          |               |                    |
| <b>Date of Issue of this Document:</b>      | 31/12/2024  |               |                    |



***Update Log***

|            |  |
|------------|--|
| 30/6/2022  | Document layout                              |
| 31/12/2024 | Inclusion of kerb and minimum racing weights |
|            |  |
|            |  |

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

|                                 |                      |
|---------------------------------|----------------------|
| <b>Description:</b>             | Unitary chassis/body |
| <b>Period of Manufacture:</b>   | 1967 – 1969          |
| <b>Manufacturer:</b>            | Fiat                 |
| <b>Chassis Number From:</b>     | 124 AC 000           |
| <b>Chassis Number location:</b> |                      |
| <b>Material:</b>                | Mild steel           |
| <b>Comments</b>                 |                      |

### 1.2. FRONT SUSPENSION

|                               |   |                    |     |
|-------------------------------|---|--------------------|-----|
| <b>Description:</b>           | Independent front suspension – twin wishbones |                    |     |
| <b>Spring Medium:</b>         | Coil  |                    |     |
| <b>Damper Type:</b>           | Tubular                                       | <b>Adjustable:</b> | No  |
| <b>Anti-sway bar:</b>         | Yes   | <b>Adjustable:</b> | No  |
| <b>Suspension adjustable:</b> | No  | <b>Method:</b>     | N/A |
| <b>Comments:</b>              | Spring rates and ride height unrestricted     |                    |     |

### 1.3. REAR SUSPENSION

|                               |   |                    |     |
|-------------------------------|---|--------------------|-----|
| <b>Description:</b>           | Rigid axle, radius arms and Panhard bar   |                    |     |
| <b>Spring Medium:</b>         | Coil                                      |                    |     |
| <b>Damper Type:</b>           | Tubular                                   | <b>Adjustable</b>  | No  |
| <b>Anti-sway bar:</b>         | Yes                                       | <b>Adjustable:</b> | No  |
| <b>Suspension adjustable:</b> | No  | <b>Method:</b>     | N/A |
| <b>Comments:</b>              | Spring rates and ride height unrestricted |                    |     |

### 1.4. STEERING

|                 |                 |              |      |
|-----------------|-----------------|--------------|------|
| <b>Type:</b>    | Worm and roller | <b>Make:</b> | Fiat |
| <b>Comments</b> | None            |              |      |

### 1.5. BRAKES

|                                      | Front  | Rear      |
|--------------------------------------|--|-----------|
| <b>Type:</b>                         | Disc   | Disc      |
| <b>Dimensions:</b>                   | 227 mm   | 227 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>                 | Fiat   |           |
| <b>Caliper type:</b>                 |  |           |
| <b>Material:</b>                     | Alloy  |           |
| <b>Master cylinder make:</b>         | Fiat   |           |
| <b>Type:</b>                         | Tandem   |           |
| <b>Adjustable bias:</b>              | No   |           |
| <b>Servo Fitted:</b>                 | Yes (Master vacuum)                              |           |
| <b>Comments:</b>                     | Rear brake pressure regulator fitted as standard |           |

## SECTION 2 - ENGINE

### 2.1. ENGINE

|                                 |                             |                         |         |
|---------------------------------|-----------------------------|-------------------------|---------|
| <b>Make:</b>                    | Fiat                        |                         |         |
| <b>Model:</b>                   | 124 AC                      |                         |         |
| <b>No. cylinders:</b>           | Four                        | <b>Configuration:</b>   | In line |
| <b>Cylinder Block-material:</b> | Cast iron                   | <b>Two/Four Stroke:</b> | Four    |
| <b>Bore - Original:</b>         | 80.0 mm                     | <b>Max allowed:</b>     | 81.5 mm |
| <b>Stroke - original:</b>       | 71.5 mm                     | <b>Max allowed:</b>     | 71.5 mm |
| <b>Capacity - original:</b>     | 1438 cc                     | <b>Max allowed:</b>     | 1492 cc |
| <b>Identifying marks:</b>       | Block casting number 124 AC |                         |         |
| <b>Cooling method:</b>          | Liquid                      |                         |         |
| <b>Comments:</b>                | None                        |                         |         |

### 2.2. CYLINDER HEAD

|                                |                |                       |                            |
|--------------------------------|----------------|-----------------------|----------------------------|
| <b>Make:</b>                   | Fiat           |                       |                            |
| <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> Toothed belt |
| <b>Valve actuation:</b>        | Overhead cam   |                       |                            |
| <b>Spark plugs/cylinder:</b>   | One            |                       |                            |
| <b>Identifying marks:</b>      | 124 A or 124 B |                       |                            |
| <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>    | Marelli 5124B                |  |  |
| <b>Comments</b> | None                         |  |  |

### 2.5. FUEL SYSTEM

|                             |   |               |                  |
|-----------------------------|---|---------------|------------------|
| <b>Carburettor Make:</b>    | Weber   | <b>Model:</b> | 34 DFH<br>34 DHS |
| <b>Carburettor Number:</b>  | One   |               |                  |
| <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>            | Two Webers allowed.<br>Bore size unrestricted |               |                  |

### SECTION 3 - TRANSMISSION

#### 3.1. CLUTCH

|                |                    |
|----------------|--------------------|
| Make:          | Fiat               |
| Type:          | Diaphragm          |
| Diameter:      | 200 mm             |
| No. of Plates: | One                |
| Actuation:     | Mechanical (cable) |
| Comments:      | None               |

#### 3.2. TRANSMISSION

|                               |                                |
|-------------------------------|--------------------------------|
| Type:                         | Four or five speed synchromesh |
| Make:                         | Fiat                           |
| Model                         | 124                            |
| Gearbox location:             | Behind engine                  |
| No. forward speeds:           | Four or Five                   |
| Gearchange type and location: | Floor remote                   |
| Case material:                | Aluminium Alloy                |
| Identifying marks:            |                                |
| Comments:                     | Ratios free                    |

#### 3.3. FINAL DRIVE

|                    |  |        |     |
|--------------------|--|--------|-----|
| Make:              | Fiat   | Model: | 124 |
| Wheel drive:       | Rear   |        |     |
| Ratios:            | Various  |        |     |
| Differential type: | Hypoid bevel                                     |        |     |
| Comments:          | Ratios free<br>Limited slip differential allowed |        |     |

#### 3.4. TRANSMISSION SHAFTS (EXPOSED)

|              |                               |
|--------------|-------------------------------|
| Number:      | One                           |
| Location:    | Tailshaft                     |
| Description: | Two piece with centre bearing |
| Comments:    |                               |

#### 3.5. WHEELS & TYRES

|                         |  |                      |                 |
|-------------------------|--|----------------------|-----------------|
| Wheel type - Original:  | Disc   | Material - Original: | Steel           |
| Wheel type - Allowed:   | Cast alloy   | Material - Allowed:  | Aluminium Alloy |
| Fixture method:         | Bolt on  | No. studs:           | Four            |
| Wheel dia. & rim width  | FRONT  |                      | REAR            |
| Original:               | 5" x 13"   |                      | 5" x 13"        |
| Allowed                 | 6" x 13"   |                      | 6" x 13"        |
| Tyre Section:           |  |                      |                 |
| Original:               | 13" x 165  |                      | 13" x 165       |
| Allowed:                | 13" x 185"   |                      | 13" x 185"      |
| Aspect ratio - minimum: | 60% minimum aspect ratio.  |                      |                 |
| Comments:               | Refer approved tyre list.<br>Rim size and tyre size limited to combination that will fit under standard wheel arch.<br>Alloy wheels type should be as shown. |                      |                 |

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

|                         |            |                  |           |
|-------------------------|------------|------------------|-----------|
| <b>Tank Location:</b>   | Under boot | <b>Capacity:</b> | 45 litres |
| <b>Fuel pump, type:</b> | Mechanical | <b>Make:</b>     |           |
| <b>Comments:</b>        | None       |                  |           |

### 4.2. ELECTRICAL SYSTEM

|                          |                                  |                           |            |
|--------------------------|----------------------------------|---------------------------|------------|
| <b>Voltage:</b>          | Twelve                           | <b>Alternator fitted:</b> | Alternator |
| <b>Battery Location:</b> | Right front corner of engine bay |                           |            |
| <b>Comments:</b>         | None                             |                           |            |

### 4.3. BODYWORK

|                      |                                    |                   |       |
|----------------------|------------------------------------|-------------------|-------|
| <b>Type:</b>         | Fixed head coupe<br>(Sports coupe) | <b>Material:</b>  | Steel |
| <b>No. of seats:</b> | Four                               | <b>No. doors:</b> | Two   |
| <b>Comments:</b>     | None                               |                   |       |

### 4.4. DIMENSIONS

|   |         |                        |         |
|---|---------|------------------------|---------|
| <b>Track - Front:</b>                       | 1346 mm | <b>Rear:</b>           | 1316 mm |
| <b>Wheelbase:</b>                           | 2420 mm | <b>Overall length:</b> | 4115 mm |
| <b>Approved Manufacturer's kerb weight:</b> | 960 kg  |                        |         |
| <b>Approved minimum racing weight:</b>      | 866 kg  |                        |         |
| <b>Comments:</b>                            | None    |                        |         |

### 4.5. SAFETY EQUIPMENT

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

