



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>                         | Bolwell  | <b>Model:</b> | Mark VII |
| <b>Period of Original Manufacture:</b>      | 1966 - 1972  |               |          |
| <b>Motorsport Australia Historic Group:</b> | Sb   |               |          |
| <b>Date of Issue of this Document:</b>      | 30/6/2022  |               |          |
| <b>Note 1</b>                               | Acceptance of a car for Group Sb classification is contingent upon it being proven that the subject car was registered for road use in the Group Sb period.  |               |          |
| <b>Note 2</b>                               | Alternate specifications on individual cars may be approved, subject to the vehicle concerned having been proven to have been registered for road use in the Group Sb period with such specifications existent at that time. |               |          |



***Update Log***

|           |                 |
|-----------|-----------------|
| 30/6/2022 | Document layout |
|           |                 |
|           |                 |

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

|                                 |                              |
|---------------------------------|------------------------------|
| <b>Description:</b>             | Steel backbone – Box section |
| <b>Period of Manufacture:</b>   | 1966 - 1972                  |
| <b>Manufacturer:</b>            | Bolwell cars                 |
| <b>Chassis Number From:</b>     |                              |
| <b>Chassis Number location:</b> |                              |
| <b>Material:</b>                | Mild Steel                   |
| <b>Comments</b>                 | None                         |

### 1.2. FRONT SUSPENSION

|                               |   |                    |                              |
|-------------------------------|---|--------------------|------------------------------|
| <b>Description:</b>           | Upper and lower wishbone (Holden HR)                                      |                    |                              |
| <b>Spring Medium:</b>         | Coil  |                    |                              |
| <b>Damper Type:</b>           | Telescopic  | <b>Adjustable:</b> | No                           |
| <b>Anti-sway bar:</b>         | No  | <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.<br>Sway bar may be fitted. |                    |                              |

### 1.3. REAR SUSPENSION

|                               |   |                    |                                 |
|-------------------------------|---|--------------------|---------------------------------|
| <b>Description:</b>           | Live axle – Trailing links with “A” bar                                   |                    |                                 |
| <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>              | Spring rates and ride heights may be adjusted.<br>Sway bar may be fitted. |                    |                                 |

### 1.4. STEERING

|                 |                 |              |        |
|-----------------|-----------------|--------------|--------|
| <b>Type:</b>    | Rack and Pinion | <b>Make:</b> | Austin |
| <b>Comments</b> | None            |              |        |

### 1.5. BRAKES

|                                      | Front   | Rear             |
|--------------------------------------|---|------------------|
| <b>Type:</b>                         | Disc  | Drum             |
| <b>Dimensions:</b>                   | 256 mm x 9.53 mm  | 229 mm x 44.4 mm |
| <b>Material of drum/disc:</b>        | Cast iron   | Cast iron        |
| <b>No. cylinders/pots per wheel:</b> | Two   | One              |
| <b>Actuation:</b>                    | Hydraulic   | Hydraulic        |
| <b>Caliper make:</b>                 | Girling   |                  |
| <b>Caliper type:</b>                 | Tandem  |                  |
| <b>Material:</b>                     | Cast iron   |                  |
| <b>Master cylinder make:</b>         | Various   |                  |
| <b>Type:</b>                         | Single  |                  |
| <b>Adjustable bias:</b>              | No  |                  |
| <b>Servo Fitted:</b>                 | Yes   |                  |
| <b>Comments:</b>                     | Dual or tandem master cylinders permitted.<br>Servo may be disconnected |                  |

## SECTION 2 - ENGINE

### 2.1. ENGINE

|                                 |   |                         |           |
|---------------------------------|---|-------------------------|-----------|
| <b>Make:</b>                    | GMH   |                         |           |
| <b>Model:</b>                   | 186   |                         |           |
| <b>No. cylinders:</b>           | Six   | <b>Configuration:</b>   | In line   |
| <b>Cylinder Block-material:</b> | Cast iron   | <b>Two/Four Stroke:</b> | Four      |
| <b>Bore - Original:</b>         | 92.075 mm   | <b>Max allowed:</b>     | 93.575 mm |
| <b>Stroke - original:</b>       | 76.20 mm  | <b>Max allowed:</b>     | 76.20 mm  |
| <b>Capacity - original:</b>     | 3044 cc   | <b>Max allowed:</b>     | 3144 cc   |
| <b>Identifying marks:</b>       | The engine number is on the engine boss, right hand side of the motor. 186 has "186" on engine block. |                         |           |
| <b>Cooling method:</b>          | Liquid  |                         |           |
| <b>Comments:</b>                | None  |                         |           |

### 2.2. CYLINDER HEAD

|                                |                    |                        |                     |
|--------------------------------|--------------------|------------------------|---------------------|
| <b>Make:</b>                   | GMH                |                        |                     |
| <b>No. of valves/cylinder:</b> | Two                | <b>Inlet:</b> One      | <b>Exhaust:</b> One |
| <b>No. of ports total:</b>     | Nine               | <b>Inlet:</b> Three    | <b>Exhaust:</b> Six |
| <b>No. of camshafts:</b>       | One                | <b>Location:</b> Block | <b>Drive:</b> Gear  |
| <b>Valve actuation:</b>        | Pushrod and rocker |                        |                     |
| <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 permitted |                           |     |

### 2.4. IGNITION SYSTEM

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

### 2.5. FUEL SYSTEM

|                             |                              |               |                     |
|-----------------------------|------------------------------|---------------|---------------------|
| <b>Carburettor Make:</b>    | Stromberg                    | <b>Model:</b> | BXUV – 2 or BXV - 2 |
| <b>Carburettor Make:</b>    | Bendix                       | <b>Model:</b> | BXV                 |
| <b>Carburettor Number:</b>  | Two                          |               |                     |
| <b>Size:</b>                | Various                      |               |                     |
| <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 throat size free |               |                     |

**SECTION 3 - TRANSMISSION**

**3.1. CLUTCH**

|                       |   |
|-----------------------|---|
| <b>Make:</b>          | RepcO   |
| <b>Type:</b>          | Diaphragm   |
| <b>Diameter:</b>      | 203 mm  |
| <b>No. of Plates:</b> | One   |
| <b>Actuation:</b>     | Hydraulic   |
| <b>Comments:</b>      | Clutch is free, subject to method of actuation remaining unchanged. |

**3.2. TRANSMISSION**

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Type:</b>                         | 4 speed synchromesh |
| <b>Make:</b>                         | Triumph             |
| <b>Model</b>                         | 2000                |
| <b>Gearbox location:</b>             | Behind engine       |
| <b>No. forward speeds:</b>           | Four                |
| <b>Gearchange type and location:</b> | Floor -remote       |
| <b>Case material:</b>                | Cast iron           |
| <b>Identifying marks:</b>            | N/A                 |
| <b>Comments:</b>                     | Ratios free         |

**3.3. FINAL DRIVE**

|                                |   |               |    |
|--------------------------------|---|---------------|----|
| <b>Make:</b>                   | Holden  | <b>Model:</b> | HR |
| <b>Rear wheel drive method</b> | Rear  |               |    |
| <b>Ratios:</b>                 | 3.36:1 (Std)  |               |    |
| <b>Differential type:</b>      | Hypoid bevel  |               |    |
| <b>Comments:</b>               | Limited slip differential permitted.<br>Ratios free |               |    |

**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>            | Bolt on   | <b>No. studs:</b>           | Five         |
| <b>Wheel dia. &amp; rim width</b> | <b>FRONT</b>  |                             | <b>REAR</b>  |
| <b>Original:</b>                  | 5" x 13"  |                             | 5" x 13"     |
| <b>Allowed</b>                    | 6" x 13"  |                             | 6" x 13"     |
| <b>Tyre Section:</b>              |   |                             |              |
| <b>Original:</b>                  | 175 x 13"   |                             | 175 x 13"    |
| <b>Allowed:</b>                   | 195 x 13"   |                             | 195 x 13"    |
| <b>Aspect ratio - minimum:</b>    | 60% minimum aspect ratio.   |                             |              |
| <b>Comments:</b>                  | Refer approved tyre list.<br>Period style Alloy wheels may replace original items |                             |              |

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

|                         |                       |                  |           |
|-------------------------|-----------------------|------------------|-----------|
| <b>Tank Location:</b>   | Rear                  | <b>Capacity:</b> | 43 litres |
| <b>Fuel pump, type:</b> | Mechanical, on engine | <b>Make:</b>     | AC        |
| <b>Comments:</b>        | Fuel pump free        |                  |           |

### 4.2. ELECTRICAL SYSTEM

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

### 4.3. BODYWORK

|                      |                           |                   |     |
|----------------------|---------------------------|-------------------|-----|
| <b>Type:</b>         | Two seat fixed head coupe | <b>Material:</b>  | GRP |
| <b>No. of seats:</b> | Two                       | <b>No. doors:</b> | Two |
| <b>Comments:</b>     | None                      |                   |     |

### 4.4. DIMENSIONS

|                       |         |                        |         |
|-----------------------|---------|------------------------|---------|
| <b>Track - Front:</b> | 1465 mm | <b>Rear:</b>           | 1473 mm |
| <b>Wheelbase:</b>     | 2248 mm | <b>Overall length:</b> | 3960 mm |
| <b>Dry weight:</b>    | 770 kg  |                        |         |
| <b>Comments:</b>      | None    |                        |         |

### 4.5. SAFETY EQUIPMENT

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

**Appendix**

Bolwell Mk VII – inclusion in group Sb

**HC415 BOLWELL MK 7 – INCLUSION IN GROUP Sb**

The Commission discussed the eligibility of the Bolwell Mk 7 for Group Sb as recommended by the Historic Eligibility Committee (HEC358). It was determined that to be eligible as a production sports car, only cars conforming

with the approved specification sheet would be acceptable unless the applicant could prove a different specification when it was registered in the period. It was agreed that to be classified, a candidate car must be proven to have been road registered in the period.

It was moved N Sullivan/P Ryan that

"The Bolwell Mk 7 be accepted as eligible for Group Sb, providing that it was proven to be registered in the period and conformed to its original registered specification or the approved specification sheet."

*Carried*

**FRONT AXLE.**

