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| 5TH CATEGORY - HISTORIC RACING<br><b>GROUP N</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>                         | Ford                         | <b>Model:</b> | Falcon XK |
| <b>Period of Original Manufacture:</b>      | September 1960 – August 1962 |               |           |
| <b>Motorsport Australia Historic Group:</b> | Nb                           |               |           |
| <b>Date of Issue of this Document:</b>      | 1 January 2024               |               |           |



Refer to Motorsport Australia Manual of Motor Sport, Vehicle Eligibility, Historic Touring Cars, General Requirements & Nc Regulations for permitted modifications.

***Update Log***

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

## SECTION 1 - CHASSIS

### 1.1. CHASSIS

|                                 |  |
|---------------------------------|--|
| <b>Description:</b>             | Uni-body four door sedan   |
| <b>Period of Manufacture:</b>   | September 1960 – August 1962   |
| <b>Manufacturer:</b>            | Ford Motor Company   |
| <b>Chassis Number From:</b>     | XKRBD 100375 onwards   |
| <b>Chassis Number location:</b> | Original engine number stamped on radiator support panel.<br>Refer Appendix A. |
| <b>Material:</b>                | Steel  |
| <b>Comments</b>                 | None   |

### 1.2. FRONT SUSPENSION

|                               |  |                    |                        |
|-------------------------------|--|--------------------|------------------------|
| <b>Description:</b>           | Independent - upper wishbone, lower control arm & castor rod |                    |                        |
| <b>Spring Medium:</b>         | Coil   |                    |                        |
| <b>Damper Type:</b>           | Telescopic   | <b>Adjustable:</b> | No                     |
| <b>Anti-sway bar:</b>         | Fitted   | <b>Adjustable:</b> | No                     |
| <b>Suspension adjustable:</b> | Yes  | <b>Method:</b>     | Caster, camber and toe |
| <b>Comments:</b>              | Refer to Appendix A  |                    |                        |

### 1.3. REAR SUSPENSION

|                               |                      |                    |     |
|-------------------------------|----------------------|--------------------|-----|
| <b>Description:</b>           | Live rear axle       |                    |     |
| <b>Spring Medium:</b>         | Semi-elliptical leaf |                    |     |
| <b>Damper Type:</b>           | Telescopic           | <b>Adjustable:</b> | No  |
| <b>Anti-sway bar:</b>         | No                   | <b>Adjustable:</b> | N/A |
| <b>Suspension adjustable:</b> | No                   | <b>Method:</b>     | N/A |
| <b>Comments:</b>              | Refer to Appendix A  |                    |     |

### 1.4. STEERING

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

### 1.5. BRAKES

|                                      | Front          | Rear           |
|--------------------------------------|----------------|----------------|
| <b>Type:</b>                         | Drum           | Drum           |
| <b>Dimensions:</b>                   | 229 mm x 57 mm | 229 mm x 38 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>                 | N/A            |                |
| <b>Caliper type:</b>                 | N/A            |                |
| <b>Material:</b>                     | N/A            |                |
| <b>Master cylinder make:</b>         | PBR            |                |
| <b>Type:</b>                         | Single         |                |
| <b>Adjustable bias:</b>              | No             |                |
| <b>Servo Fitted:</b>                 | No             |                |
| <b>Comments:</b>                     | None           |                |

## SECTION 2 - ENGINE

### 2.1. ENGINE

|                                   |   |                         |         |
|-----------------------------------|---|-------------------------|---------|
| <b>Make:</b>                      | Ford  |                         |         |
| <b>Model:</b>                     | 144 cubic inch<br>170 cubic inch  |                         |         |
| <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 - 144:</b>     | 88.9 mm   | <b>Max allowed:</b>     | 90.4 mm |
| <b>Stroke – original - 144:</b>   | 63.5 mm   | <b>Max allowed:</b>     | 63.5 mm |
| <b>Capacity – original - 144:</b> | 2360 cc   | <b>Max allowed:</b>     | 2360 cc |
| <b>Bore – Original - 170:</b>     | 88.9 mm   | <b>Max allowed:</b>     | 90.4 mm |
| <b>Stroke – original - 170:</b>   | 74.7 mm   | <b>Max allowed:</b>     | 74.7 mm |
| <b>Capacity – original - 170:</b> | 2782 cc   | <b>Max allowed:</b>     | 2876 cc |
| <b>Identifying marks:</b>         | ZS* prefix – 144 engine<br>D prefix – 170 engine<br>Behind fuel pump.<br>Refer Appendix A |                         |         |
| <b>Cooling method:</b>            | Liquid  |                         |         |
| <b>Comments:</b>                  | None  |                         |         |

### 2.2. CYLINDER HEAD

|                                |   |                        |                     |
|--------------------------------|---|------------------------|---------------------|
| <b>Make:</b>                   | Ford  |                        |                     |
| <b>No. of valves/cylinder:</b> | Two   | <b>Inlet:</b> One      | <b>Exhaust:</b> One |
| <b>No. of ports total:</b>     | Twelve  | <b>Inlet:</b> Six      | <b>Exhaust:</b> Six |
| <b>No. of camshafts:</b>       | One   | <b>Location:</b> Block | <b>Drive:</b> Chain |
| <b>Valve actuation:</b>        | Pushrod and rocker  |                        |                     |
| <b>Spark plugs/cylinder:</b>   | One   |                        |                     |
| <b>Identifying marks:</b>      | N/A   |                        |                     |
| <b>Comments:</b>               | Inlet manifold is cast integral with cylinder head. Inlet manifold may be modified to allow addition of multiple carburetors. |                        |                     |

### 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 & distributor                |  |  |
| <b>Make:</b>    | Bosch or Autolite                         |  |  |
| <b>Comments</b> | Breakerless electronic ignition permitted |  |  |

### 2.5. FUEL SYSTEM

|                             |         |               |               |
|-----------------------------|---------|---------------|---------------|
| <b>Carburettor Make:</b>    | Holley  | <b>Model:</b> | Single barrel |
| <b>Carburettor Number:</b>  | One     |               |               |
| <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>            | None    |               |               |

### SECTION 3 - TRANSMISSION

#### 3.1. CLUTCH

|                |            |
|----------------|------------|
| Make:          | Ford       |
| Type:          | Diaphragm  |
| Diameter:      | 216 mm     |
| No. of Plates: | One        |
| Actuation:     | Mechanical |
| Comments:      | None       |

#### 3.2. TRANSMISSION

|                               |   |
|-------------------------------|---|
| Type:                         | Synchromesh   |
| Make:                         | Ford  |
| Gearbox location:             | Behind engine   |
| No. forward speeds:           | Three   |
| Gearchange type and location: | Remote, steering column   |
| Case material:                | Cast iron   |
| Identifying marks:            | N/A   |
| Comments:                     | The use of XR Falcon standard (non-Syncro) 3 speed gearbox is permitted |

#### 3.3. FINAL DRIVE

|                    |           |        |     |
|--------------------|-----------|--------|-----|
| Make:              | Ford      | Model: | N/A |
| Type:              | Live axle |        |     |
| Ratios:            | 3.56:1    |        |     |
| Differential type: | Open/free |        |     |
| Comments:          | None      |        |     |

#### 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:  | Pressed disc              | Material - Original: | Steel               |
| Wheel type - Allowed:   | Cast                      | Material - Allowed:  | Alloy               |
| Fixture method:         | Studs                     | No. studs:           | Four or Five        |
| Wheel dia. & rim width  | FRONT                     |                      | REAR                |
| Original:               | 4.5" x 13" (4 stud)       |                      | 4.5" x 13" (4 stud) |
| Allowed                 | 6" x 13" (4 stud)         |                      | 6" x 13" (4 stud)   |
| Tyre Section:           |                           |                      |                     |
| Allowed:                | Refer approved tyre list. |                      |                     |
| Aspect ratio - minimum: | 60% minimum aspect ratio  |                      |                     |
| Comments:               | None                      |                      |                     |

## SECTION 4 GENERAL

### 4.1. FUEL SYSTEM

|                         |  |                  |           |
|-------------------------|--|------------------|-----------|
| <b>Tank Location:</b>   | Boot floor                             | <b>Capacity:</b> | 52 litres |
| <b>Fuel pump, type:</b> | Mechanical, left side of engine block. | <b>Make:</b>     | AC        |
| <b>Comments:</b>        | None                                   |                  |           |

### 4.2. ELECTRICAL SYSTEM

|                          |                    |                           |           |
|--------------------------|--------------------|---------------------------|-----------|
| <b>Voltage:</b>          | 12                 | <b>Alternator fitted:</b> | Generator |
| <b>Battery Location:</b> | Engine compartment |                           |           |
| <b>Comments:</b>         | None               |                           |           |

### 4.3. BODYWORK

|                      |                |                   |       |
|----------------------|----------------|-------------------|-------|
| <b>Type:</b>         | Closed touring | <b>Material:</b>  | Steel |
| <b>No. of seats:</b> | Five           | <b>No. doors:</b> | Four  |
| <b>Comments:</b>     | None           |                   |       |

### 4.4. DIMENSIONS

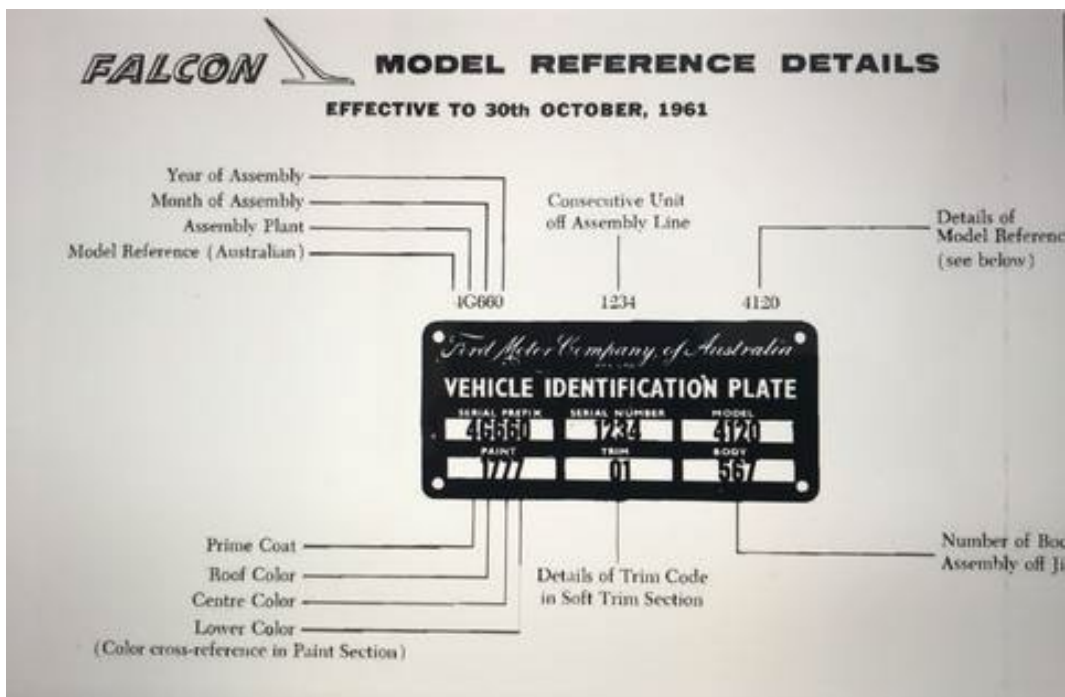
|   |          |                        |         |
|---|----------|------------------------|---------|
| <b>Track - Front:</b>                       | 1397 mm  | <b>Rear:</b>           | 1384 mm |
| <b>Wheelbase:</b>                           | 2781 mm  | <b>Overall length:</b> | 4602 mm |
| <b>Approved Manufacturer's kerb weight:</b> | 1103 kgs |                        |         |
| <b>Approved minimum racing weight:</b>      | 1081 kgs |                        |         |
| <b>Comments:</b>                            | None     |                        |         |

### 4.5. SAFETY EQUIPMENT

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

## Appendix A

### Chassis



### Suspension

#### Front

Spring height adjustment permitted.

#### Rear

Spring height adjustment permitted.