



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: | Holden | Model: | FE FC |
| Period of Original Manufacture: | FE - 1956 – 1958 FC – May 1958 - 1960 | | |
| 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

| | |
|------------|--|
| 19/05/2022 | Wheels - 6" width permitted |
| 1/1/2024 | Inclusion of kerb and minimum racing weights |
| | |

SECTION 1 - CHASSIS

1.1. CHASSIS

| | |
|---------------------------------|--|
| Description: | Unitary body shell |
| Period of Manufacture: | 1956 - 1958 |
| Manufacturer: | General Motors Holden |
| Chassis Number From: | |
| Chassis Number location: | Front subframe, driver's side, or on the passenger side door pillar. |
| Material: | Mild steel |
| Comments | Unitary body shell |

1.2. FRONT SUSPENSION

| | | | |
|-------------------------------|---------------------------------------|--------------------|------------------------|
| Description: | Independent - upper & lower wishbones | | |
| Spring Medium: | Coil | | |
| Damper Type: | Tubular. | Adjustable: | No |
| Anti-sway bar: | No | Adjustable: | No |
| Suspension adjustable: | Yes | Method: | Caster, camber and toe |
| Comments: | Refer to Appendix A | | |

1.3. REAR SUSPENSION

| | | | |
|-------------------------------|----------------------|--------------------|-----|
| Description: | Live rear axle | | |
| Spring Medium: | Semi elliptical leaf | | |
| Damper Type: | Tubular. | 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 sector | Make: | Holden |
| Comments | Permitted to use later FB / EK steering column to allow for dished steering wheel. | | |

1.5. BRAKES

| | Front | Rear |
|--------------------------------------|--------------------|--------------------|
| Type: | Drum | Drum |
| Dimensions: | 228.6 mm x 38.1 mm | 228.6 mm x 38.1 mm |
| Material of drum/disc: | Cast iron | Cast iron |
| No. cylinders/pots per wheel: | One | One |
| Actuation: | Hydraulic | Hydraulic |
| Caliper make: | N/A | |
| Caliper type: | N/A | |
| Material: | N/A | |
| Master cylinder make: | Holden | |
| Type: | Single | |
| Adjustable bias: | None | |
| Servo Fitted: | No, but permitted | |
| Comments: | None | |

SECTION 2 - ENGINE

2.1. ENGINE

| | | | |
|---------------------------------|-----------|-------------------------|---------|
| Make: | Holden | | |
| Model: | FE | | |
| No. cylinders: | Six | Configuration: | In-line |
| Cylinder Block-material: | Cast iron | Two/Four Stroke: | Four |
| Bore - Original: | 76.2 mm | Max allowed: | 77.5 mm |
| Stroke - original: | 79.4 mm | Max allowed: | 79.4 mm |
| Capacity - original: | 2160 cc | Max allowed: | 2247 cc |
| Identifying marks: | N/A | | |
| Cooling method: | Liquid | | |
| Comments: | None | | |

2.2. CYLINDER HEAD

| | | | | | |
|--------------------------------|-------------|------------------|-------|-----------------|------|
| Make: | Holden | | | | |
| No. of valves/cylinder: | Two | Inlet: | One | Exhaust: | One |
| No. of ports total: | Seven | Inlet: | Three | Exhaust: | Four |
| No. of camshafts: | One | Location: | Block | Drive: | Gear |
| Valve actuation: | Pushrod OHV | | | | |
| Spark plugs/cylinder: | One | | | | |
| Identifying marks: | N/A | | | | |
| Comments: | None | | | | |

2.3. LUBRICATION

| | | | |
|-----------------------------|----------|---------------------------|-----|
| Method: | Wet sump | Oil tank location: | N/A |
| Dry sump pump type: | N/A | Location: | N/A |
| Oil cooler standard: | N/A | Location: | N/A |
| Comments: | None | | |

2.4. IGNITION SYSTEM

| | |
|-----------------|---|
| Type: | Points, coil & distributor |
| Make: | Bosch or Delco Remy |
| Comments | Breakerless electronic ignition permitted |

2.5. FUEL SYSTEM

| | | | |
|-----------------------------|-----------|---------------|--------|
| Carburettor Make: | Stromberg | Model: | BXOV.1 |
| Carburettor Number: | One | | |
| Size: | Various | | |
| Fuel injection Make: | N/A | Type: | N/A |
| Supercharged: | No | Type: | N/A |
| Comments: | None | | |

SECTION 3 - TRANSMISSION

3.1. CLUTCH

| | |
|-----------------------|----------------|
| Make: | Holden |
| Type: | Diaphragm |
| Diameter: | 203 mm |
| No. of Plates: | One |
| Actuation: | Mechanical rod |
| Comments: | None |

3.2. TRANSMISSION

| | |
|--------------------------------------|--------------------------------|
| Type: | Synchromesh, not on First gear |
| Make: | Holden |
| Gearbox location: | Behind engine |
| No. forward speeds: | Three |
| Gearchange type and location: | Column shift |
| Case material: | Cast iron |
| Identifying marks: | N/A |
| Comments: | None |

3.3. FINAL DRIVE

| | | | |
|---------------------------|----------------|---------------|-------|
| Make: | Holden | Model: | Banjo |
| Type: | Live rear axle | | |
| Ratios: | 4.375:1 | | |
| Differential type: | Hypoid bevel | | |
| 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: | Pressed disc | Material - Allowed: | Alloy |
| Fixture method: | Bolt-on | No. studs: | Five |
| Wheel dia. & rim width | FRONT | | REAR |
| Original: | 4.5" x 13" | | 4.5" x 13" |
| Allowed | 6" x 13" | | 6" x 13" |
| 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 (in floor) | Capacity: | 43 litres |
| Fuel pump, type: | Mechanical, engine block | Make: | AC |
| Comments: | None | | |

4.2. ELECTRICAL SYSTEM

| | | | |
|--------------------------|------------------------------------|---------------------------|----|
| Voltage: | Six | Alternator fitted: | No |
| Battery Location: | Engine compartment on R/H Firewall | | |
| Comments: | Twelve volt permitted | | |

4.3. BODYWORK

| | | | |
|----------------------|-------|-------------------|-------|
| Type: | Sedan | Material: | Steel |
| No. of seats: | Five | No. doors: | Four |
| Comments: | None | | |

4.4. DIMENSIONS

| | | | |
|---|--|------------------------|------------------------------|
| Track - Front: | 1384 mm | Rear: | 1384 mm |
| Wheelbase: | 2667 mm | Overall length: | FE - 4470 mm FC - 4488 mm |
| Approved Manufacturer's kerb weight: | 1080 kgs | | |
| Approved minimum racing weight: | 1053 kgs | | |
| Comments: | FC had the addition of front turn indicators incorporated into bottom edge of wider hatched grille | | |

4.5. SAFETY EQUIPMENT

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

Appendix A

Suspension

Front

Spring height adjustment permitted.

Rear

Spring height adjustment permitted.