



Group S specifications for MG manufactured vehicles running in MG Racing Australia

Chassis Frame

Manufacture: **MG Car Company Ltd**

Manufacture model and period: **MG Midgets and 4 Cylinder MGB's from 1961-1980.**

Material: **Mild Steel, body to remain in original configuration.**

Wheel base: **Midget 2030 mm MGB 2311 mm**

Front Track: **Midget 1160 mm MGB 1247 mm**

Rear Track: **Midget 1140 mm MGB 1251 mm**

Dry Weight: **Midget TBA MGB TBA**

Front Suspension

Description: **Independent lower control arm with lever arm shocker forming the top control arm as per original configuration.**

Spring: **Coil**

Spring rate: **Free**

Shockers: **Lever arm**

Adjustable: **Yes, but not from the driver's seat.**

Anti-Sway bar: **free**

Adjustable: **Yes, but not from the driver's seat.**

Camber Adjustment: **Max 3° Negative**

Rear Suspension

Description: **Live Axle**

Spring: **Semi elliptical leaf spring**

Spring rate: **Free**

Shockers: **Lever arm or Steel unitary telescopic**

Adjustable: **Yes, but not from the driver's seat.**

Anti-Sway bar: **No**

Steering

Type: **Rack and Pinion**

Make: **MG**

Brakes

Type: **Front Discs, Original size and thickness relevant to Midget and MGB check specifications**

Caliper: **Cast iron Lockheed two piston as fitted relevant to Midget and MGB check specifications**

Brake Bias: **NO**

Master Cylinder: **Single system Lockheed**

Note: Can fit original MGB Tandem System

Brake boost servo: **12/1974 on**

Type: **Rear Drum, Original size relevant to Midget and MGB check specifications**

Note: Drums and backing plates can be ventilated.



Bodywork

Type: **Steel, aluminum bonnet is allowed.**

Body: **Body work must remain original, but the bumpers may be removed, front cowling 2 holes or none.**

Note: Sebring Fiberglass panels can be fitted with front being two holes only.

Signage: **MG Racing series logo and series sponsor logos may be fitted.**

Engine

Type: **4-cylinder inline BMC A series and B series as fitted to Midget and MGB check specifications**

Material: **Cast Iron**

Bore Size **Midget: Original 70.6 mm Max 72.1 mm**

Stroke **Midget: Original 81.0 mm Max 81.0 mm**

Capacity **Midget: Original 1275cc Max 1328cc**

Bore Size **MGB: Original 80.264 mm (3.160") Max 81.764 mm (3.219")**

Stroke **MGB: Original 88.9 mm (3.5") Max 88.9 mm (3.5")**

Capacity **MGB: Original 1799cc Max 1867cc**

Engine **MUST** be sealed after an **open** engine inspection by a CAMS Group S inspector or Cams approved Engine sealer that has no association with the car or engine, CAMS Engine seal paper work must be available at the track upon request.

Cylinder head

Type: **BMC A series and B series as fitted to Midget and MGB check specifications**

Material: **Cast Iron**

Number of valves per cylinder: **2**

Number of ports: **5 2 inlet and 3 exhaust.**

Valve Train: **Single Cam Shaft located in block, chain driven, push rod activated and roller rockers maybe fitted.**

Spark plugs: **One per cylinder**

Lubrication

Sump: **Wet, Capacity may be increased and may have a baffle fitted.**

Note: Remote oil pressure accumulators are permitted.

Oil cooler: **May be fitted above (SB) or below (SC) radiator duct panel.**

Cooling System

Cooling method: **Water with mechanical drive water pump.**

Radiator: **Aluminum radiator can be fitted.**

Ignition System

Type: **Oil filled coil with distributor.**

Distributor: **Breaker points or electronic ignition.**

Distributor type: **Rotor button type**

Battery location: **Free, if in the cabin must be sealed unit.**



Fuel System

Carburetor: **2 x SU HS2 (Midget) 2 x SU HS4 (MGB) or 1 x 45 DCOE Weber.**

Fuel Pump: **Free**

Fuel Tank: **Metal located under boot floor, if tank fitted in boot the original tank must be fitted in original location. Note: original tank can be replaced with Aluminum tank that meets the Motor sport Australia regulations**

Clutch

Type: **Diaphragm**

Size: **As fitted to Midget and MGB check specifications.**

Transmission

Type: **BMC as fitted to Midget and MGB check specifications.**

Overdrive gearbox: **Can be fitted.**

Ratios: **Free**

Final Drive

Type: **BMC Banjo or Salisbury as fitted to Midget and MGB check specifications**

Ratios: **Free, limited slip or locker maybe fitted.**

Electrical system

System voltage: **12 volt**

Wiring harness: **Must be original with accessories working.**

Charging system: **Dynamo can be replaced with a period style alternator.**

Wheels and tyres

MGB Wheels: Disc or Wire **14" max width 6" Aluminum wheels allowed Group S**

Fixing method: **Center nut or 4 stud**

Tyres: **14" x 185 with a minimum aspect ratio of 60%, refer Motor Sport Aust Tyre list Group S.**

Note: MGB GT can run 14" x 195 as per Motor Sport Australia Tyre list Group S

Midget Wheels: Disc or Wire **13" max width 5" Aluminum wheels allowed**

Fixing method: **Center nut or 4 stud**

Tyres: **13" x 175 with a minimum aspect ratio of 60%, refer CAMS group S Tyre list.**

The list of items below are accepted body modification for cars only racing in "Group S MG Racing Australia".

Please note: these items may not be accepted in "Group S racing", modifications must have been pre-existing when vehicle was log booked Group S.

1. . Side moldings removed.
2. . Enlarged hole on Radiator support panel.
3. . Fuel tank through the floor.



Motorsport Australia Reference Documents

HI01 General Regulations

HI03 3.1 General Requirements

HI07 3.5 Production sports cars

Approved Tyre list Groups N and S

Note: with the Committee of MG Racing Australia's consent "MGA" vehicles that comply with Group SA can run under MG Racing Australia Group S.