



2023 MX5 Cup Winter Series

PREAMBLE:

This series articles governing MX5RacingNZ has been prepared by the Manawatu Car Club to govern the building and racing of low-cost Mk1 1600cc Mazda MX5 sports cars in New Zealand.

The MX5 Racing NZ Series is organized and held in accordance with the MotorSport NZ National Sporting Code, the standing regulations and any supplementary regulations applicable to and issued by the organisers of each Round of the Series.

These articles and technical regulations are to be read in conjunction with:

- The National Sporting Code (NSC) and its appropriate Appendices and Schedules,
- The Event Supplementary Regulations issued by the inviting Clubs.

RULE CHANGES EFFECTIVE FROM JUNE 4th 2023.

Rule	Reason for change																
<p>15 Preamble Efforts to bend, find or take advantage of loopholes in the rules will be deemed to be in breach of the regulations. These regulations are presented on the basis that if a modification is not specifically permitted, then it is not <u>allowed.</u></p>	<p>Clarification</p>																
<p>9.1 Round 2 at 24Minutes of LeManfeild</p> <table><tr><td>Qualifying</td><td>10 Minutes</td><td></td><td></td></tr><tr><td>Race 1</td><td>24 minutes</td><td>Rolling Start</td><td>Based on qualifying time</td></tr><tr><td>Race 2</td><td>24 minutes</td><td>Rolling Start Reverse Grid</td><td>Based on the finish order of Race 1 before penalties</td></tr><tr><td>Race 3</td><td>24 minutes</td><td>Rolling Start</td><td>Based on points gained in Race 1 and Race 2</td></tr></table>	Qualifying	10 Minutes			Race 1	24 minutes	Rolling Start	Based on qualifying time	Race 2	24 minutes	Rolling Start Reverse Grid	Based on the finish order of Race 1 before penalties	Race 3	24 minutes	Rolling Start	Based on points gained in Race 1 and Race 2	<p>Round format for Round 2 at 24Minutes of LeManfeild. Testing, qualifying and Race 1 on Saturday. Race 2 and Race 3 on Sunday</p>
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<p>15.3.2The Racing Weight may be measured at any time during or at the conclusion of any official practice session, qualifying session and/or race on the official scales of the event/ meeting.</p>	<p>Clarification</p>																
<p>15.6.2Modification to the transmission tunnel by up to 50mm to allow for installation of seat anchorages is permitted. Lowering of any part of the floor-pan is not permitted.</p>	<p>Allows for installation of wider seats within the driver's floor pan area</p>																
<p>15.7.3 No rear spoiler may be fitted.</p>	<p>Clarification</p>																
<p>15.7.6Removal of the following parts is permitted:</p> <ul style="list-style-type: none">• Wheel arch inner plastic linings• Underbody plastic protection• Antenna provided the hole is covered.	<p>Deleted clause. Covered in 15.7.8</p>																

<ul style="list-style-type: none"> Indicator lamps fitted to the front guards provided the holes are covered. Body underseal Any unused fittings and brackets 	
15.8.1 With the exception of the dashboard assembly and inner door cards, all interior trim and unused brackets may be removed, provided it complies with schedule A. Any sharp edges must be covered.	Simplified
15.8.12 A stand-alone oil pressure gauge may be fitted.	Allowed
15.9.9 Only OEM or equivalent unmodified inlet and exhaust valves, valve springs, retainers and hydraulic lifters of factory dimensions specific to the Mazda B6 engine may be used.	Clarification
15.10.5 Thermostat is free and may be removed, provided the original OEM housing is retained along with all factory coolant routing and plumbing.	Clarification
15.12.2 Fuel filters are free.	Deleted
15.12.3 The fuel tank vent system may be modified to prevent potential spillage of fuel.	
15.13.2 The exhaust pipe rearward of the exhaust manifold is free provided a maximum outside pipe diameter (OD) of 60mm is respected in its entirety and the exit is in the original location.	Clarification
15.13.4 The rear muffler design is free with a maximum entry inside diameter of 61mm and internal inside diameter of 61mm which must be respected throughout the length of the muffler.	Clarification
15.14.1 Spark plugs and high-tension leads are free, but the ignition coil mounting bracket and layout must remain unmodified.	Clarification
15.14.3 The ECU shall be the original unit and must not be modified. No alteration to wiring nor additional 'piggy-back' devices may be fitted that may alter the functionality or performance of the ECU, air flow meter, ignition timing or fuel injection. The ECU may be relocated to the front bulkhead under the dash area. MX5RacingNZ will hold a number of ECUs. Upon request of the Series Scrutineer the competitor is required to remove their ECU and fit a unit supplied by MX5RacingNZ or a unit from a competitor's car. The swapping of ECUs may be ordered at any time by the Series Scrutineer. Competitors will be allowed a test/practice session to ensure the replacement ECU is working correctly.	Clause deleted. Not possible to action in all circumstances
15.18.7 The handbrake must remain standard and pass a stall test.	Clarification re handbrake operation
15.18.9 Brake master cylinder reinforcement brackets are permitted.	Allowed

1. INTERPRETATION:

In these articles, the following expressions shall have the meanings set out:

"Series" means the MX5RacingNZ Series, being a series of events, the results of which are aggregated to form a final result; and

"MX5 Racing NZ" means the MX5RacingNZ Race Class and sub-committee of the Manawatu Car Club; and

“NSC” means the National Sporting Code issued by MotorSport NZ from time to time; and

“Round” means a meeting or event consisting of a number of races that which qualifies for points as part of the MX5RacingNZ Series; and

“Round Organiser” or “Inviting Club” means the Motorsport NZ member club organizing a meeting and/or event which is a round of the series.

2. OBJECTIVES.

To promote and foster low cost, competitive, production car-based racing with an emphasis on rewarding driver skill as opposed to vehicle mechanical advantage.

3. ELIGIBILITY.

3.1 All drivers shall hold a C1 Grade Competition license or higher and if the Entrant is other than the Driver, an Entrants Licence is required in the name of the Entrant.

3.2 Eligibility shall be for vehicles complying with the specifications as detailed later in these articles.

3.3 All Competitors/Entrants shall agree to submit their vehicle(s) for eligibility/safety scrutineering inspections as and when required by the appointed Series Scrutineer, and/or a MotorSport NZ licensed Technical officer. Any costs incurred during disassembly shall be met and accepted by the Competitor/Entrant.

3.4 Official Series Seals may be applied by the Series Scrutineer, at any time, to components and/or assemblies of components in compliance with Appendix Two, Schedule A, Article 3.7. Any applied seals shall be clearly detailed in the vehicle's Motorsport NZ Logbook.

3.5 All drivers and entrants shall be financial members of the Manawatu Car Club. Join here: <https://manawatucarclub.org.nz/get-involved/membership/>

4. SERIES STRUCTURE: WINTER SERIES

The 2023 MX5RacingNZ Winter Race series shall comprise of the following rounds;

Round	Date	Venue	Inviting Club	Event
1	4 th June	Manfeild: Circuit Chris Amon	MCC	FAE Winter Series
2	22-23 July	Manfeild: Circuit Chris Amon	MCC	24Minutes of LeManfeild
3	6 th August	Manfeild: Circuit Chris Amon	MCC	FAE Winter Series
4	3 rd September	Manfeild: Circuit Chris Amon	MCC	FAE Winter Series

The Series organiser reserves the right to either cancel or amend any rounds of the series due to force majeure without affecting in any way its power to award any title.

5. SERIES PERSONNEL:

5.1 The following personnel, or their approved assistant/s shall have the responsibilities and authorities set out:

5.1.1 MX5RacingNZ Series Coordinator:

Name: Markku Braid
Phone No: 027 444 4222
Email: m.braid55@gmail.com

Who shall have the authority of a series coordinator set out in the NSC and who shall be responsible for and authorized on behalf of MX5 Racing NZ to:

- A. Deal with all administrative matters pertaining to the Series; and
- B. Record and publish all Series points schedules; and
- C. Liaise with the inviting clubs on all matters pertaining to these Articles; and
- D. Ensure correct placement of decals on vehicles contesting the series; and
- E. Provide the Inviting club with grid positions where these differ from those detailed in Appendix four Schedule Z, Article 6.1. ~~For Clubsport events this does not apply.~~
- F. Attend Stewards meetings if required.

The Series Coordinator may appoint a Series Secretary to assist with the administrative duties in connection with the series.

5.1.2 MX5RacingNZ Series Secretary:

Name: Jeff Braid
Phone No: 027 477 3337
Email: info@manawatucarclub.org.nz

5.1.3 MX5RacingNZ Series Scrutineer:

Name: Nick Stewart
Phone No: 02040647178
Email: nstewart838@gmail.com

Who shall have the duties and authority of a Series Scrutineer as set out in the NSC and who shall be responsible for and authorized on the club's behalf to:

- a) Appoint appropriate Scrutineers to assist with inspections; and
- b) Deal with all technical matters pertaining to the Series; and
- c) Affix seals as and when deemed appropriate; and
- d) Inspect any competing vehicle within the Series, in order to ascertain compliance with the technical regulations; and
- e) Assist competitors with technical inquiries relative to the technical regulations applicable to their vehicle; and
- f) Liaise with Event Officials and Series Coordinators on any technical conformity issue for the class; and
- g) Be Judge of Fact on the technical regulations of the series.

5.2 All correspondence shall be addressed to the Series Secretary who is authorised by MX5 Racing NZ to carry out all necessary administrative duties for the Series.

5.3 The MX5RacingNZ Sub-Committee to the Manawatu Car Club will consist of five members appointed by the Club.

Sub Committee Members for 2023:

Markku Braid
Tim Wilde
Chris Greaney
Nick Stewart
Jeremy Hoskins

5.3.1 Duties of the Sub-Committee:

- a) To report to the Manawatu Car Club Committee the week following each race meeting in the MX5RacingNZ Summer series
- b) To assist competitors and entrants at race meetings
- c) To promote the aims of MX5RacingNZ
- d) To consider breaches of the technical regulations as reported to them by the Series Scrutineer
- e) To impose penalties of points deductions they deem appropriate.

5.3.2 In the case of conflict of interest a neutral person will be appointed by the remainder of the Sub-Committee

6. SERIES ENTRY

6.1 Entry into the Series shall be made on the official MX5RacingNZ series entry form. By entering the series all competitors/entrants agree to comply with these articles and the NSC.

6.2 Entry to each Round of the Series (separate to the Series Entry) shall be made to the event organiser of the round, or Mazda Racing Series, on the official entry form for each round.

6.3 MX5RacingNZ will endeavour to allocate a permanent number to each competitor for the series. All numbers on competing vehicles shall comply with the prescriptions of Appendix Two; schedule A, article 6.2 – Competition Numbers.

6.4 Condition of Entry:

6.4.1 The Competitor/Entrant, by entering the series is deemed to be in acceptance of these series articles as they are presented and shall be at all times responsible for their competing vehicle with respect to safety requirements under Schedule A, and eligibility requirements of MX5 Racing NZ.

6.4.2 The Competitor/Entrant, by entering the series is deemed to be in acceptance of and will comply with any specific requirements of the official Series Sponsor/s as detailed within these articles.

6.4.3 The Series Organiser reserves the right to accept or decline entries into the series as per NSC 21.

7. POINTS STRUCTURE:

7.1 There shall be one points system applied to all results of the Series. Points will be recorded and published by the series Coordinator and will be allocated to all eligible competitors in the series on their overall finishing positions in each race at each round of the series.

7.2 The points will be allocated as follows:

1st	75	11th	30	21st	10
2nd	67	12th	28	22nd	9
3rd	60	13th	26	23rd	8
4th	54	14th	24	24th	7
5th	49	15th	22	25th	6
6th	45	16th	20	26th	5
7th	42	17th	18	27th	4
8th	39	18th	16	28th	3
9th	36	19th	14	29th	2
10th	33	20th	12	30th	1

AWARDS:

8.1 MX5 Racing NZ Winter Series.

8.1.1 The driver whose totals the highest points score from the results of the series will determine the MX5RacingNZ Summer Championship points and positions.

8.1.2 Any ties will be resolved by the driver with the highest number of round wins, and in the case of a further tie the highest number of first placings, second placings and so on until a winner has been determined.

8.1.3 Awards will be presented following the final round of the series as follows:

- Overall MX5RacingNZ Summer Series Champion
- Second place and
- Third place

9. ROUND FORMATS:

9.1 MX5RacingNZ Winter Series Rounds 1, 3 and 4

Qualifying	10 Minutes		
Race 1	6 laps	Scratch	Based on qualifying times
Race 2	6 laps	Reverse Grid	Based on the finish order of Race 1 before penalties
Race 3	6 laps	Handicap	Handicap based on the second-fastest time of the day

Round 2 at 24 Minutes of LeManfeild

Qualifying	10 Minutes		
Race 1	24 minutes	Rolling Start	Based on qualifying time
Race 2	24 minutes	Rolling Start Reverse Grid	Based on the finish order of Race 1 before penalties
Race 3	24 minutes	Rolling Start	Based on points gained in Race 1 and Race 2

9.2 MX5RacingNZ competitors will be scored on each race finish using the points table in 7.2 of these articles. This score will be totalled and once placings have been finalized the points table in 7.2 shall be applied to overall round placing to eligible competitors only.

10. TIMEKEEPING.

10.1 The round organiser shall provide the timing system for each event.

10.2 If AMB Timing is used and a transponder is hired, it is the responsibility of the competitor to install in accordance with Schedule A, look after the equipment with due care and return at the end of the event. Any damage or loss is the responsibility of the competitor.

11. BREACH OF TECHNICAL REGULATIONS.

11.1 In the case of a breach or breaches of **Technical Regulations 15** penalties shall be applied by the MX5RacingNZ Committee by loss of points for race/races as deemed appropriate by the MX5 Racing NZ Committee. The Committee's decision is final.

12. PARC FERME:

12.1 At the conclusion of any qualifying session or race, drivers, upon directive by the Series Scrutineer or their appointed assistants, shall drive their competing vehicle directly (without any team personnel/crew intervention) from the track to the designated Parc Ferme. The location of Parc Ferme will be notified on the official event notice board.

12.2 The series scrutineer may authorise entry of team personnel for the purposes of vehicle eligibility inspections.

13. DECALS

13.1 All Competitors shall ensure that their competing vehicle and apparel have the specified spaces reserved for the Series Register and the Series Sponsors at all rounds of the series and shall include:

- Windscreen banner.
- Both front guards at the rear and above front wheel arches

13.2 One set of decals shall be provided free, replacements will be charged to competitors.

13.3 Car identification shall be shown as follows in accordance with Schedule A Article 6.2 (1):

- The car number shall be shown on the doors.
- The car number and driver's name shall be shown on the left side of the windscreen.
- Each car may have a nick-name to be located on the front bumper area near the badge mount.

14. TELEVISION AND IN-CAR CAMERAS:

- 14.1 All in-car camera installations shall be subject to inspection and approval by the Series Scrutineer and/or Chief Scrutineer of the meeting.
- 14.2 Competitors are encouraged to use in-car cameras for collecting series footage and make this available to MX5RacingNZ for promotional purposes.
- 14.3 Any in-car camera footage should be made available to the Clerk of the Course or the Series Coordinator on request.

15. TECHNICAL REGULATIONS

PREAMBLE

The overlying philosophy of these regulations is as follows:

- To always keep regulations simple, straightforward and along the lines of “it must remain standard unless specifically stated otherwise”; Efforts to bend, find or take advantage of loopholes in the rules will be deemed to be in breach of the regulations. These regulations are presented on the basis that if a modification is not specifically permitted, then it is not allowed.
- To minimize compliance costs and ensure the Series emphasizes driver ability rather than mechanical advantage;
- To control the Series through these regulations to provide fair competition for all.
- To meet the objectives of the Series.

15.1 GENERAL INFORMATION

15.1.1 This schedule shall be read in its entirety and shall take precedence over Appendix 2 Schedule A of the NSC excepting where an item is not specifically covered, in which case Appendix 2 Schedule A will apply.

15.1.2 “OEM” means Original Equipment Manufacturer and refers to Mazda factory-supplied original components.

15.1.3 All competing vehicles to which these regulations apply shall have a valid MotorSport NZ logbook.

15.1.4 Where any doubt may exist in understanding any regulation contained within this schedule, it will be understood that it is the competitor’s obligation to enquire as to the correct interpretation.

- All technical eligibility and/or safety equipment enquiries shall be submitted in writing to the Series Scrutineer.
- A written reply will be provided.
- On matters of technical eligibility and/or safety compliance, a verbal statement will have no validity.

15.2 ELIGIBLE VEHICLES

- The only vehicles eligible to compete shall be the series production NA6CE model Mazda MX5 built between 1989 and 1993 with a 1600cc engine. All vehicles should be of sound construction and good mechanical condition.

15.3 MINIMUM RACE WEIGHT

15.3.1 All race vehicles shall respect the **Minimum Racing Weight** at all times during the competition.

15.3.2 The Racing Weight may be measured at any time during or at the conclusion of **any official practice session**, qualifying session and/or race on the official scales of the event/ meeting.

15.3.3 **Minimum Racing Weight** of NA6CE models shall be **960kg** in racing trim including the driver.

15.3.4 Any ballast required to respect the minimum racing weight shall be securely bolted to the chassis in compliance with Schedule A

15.4 SAFETY EQUIPMENT REQUIREMENTS

The following safety equipment **shall** be fitted to the competing car

15.4.1 A roll cage shall be installed in full compliance with Schedule A.

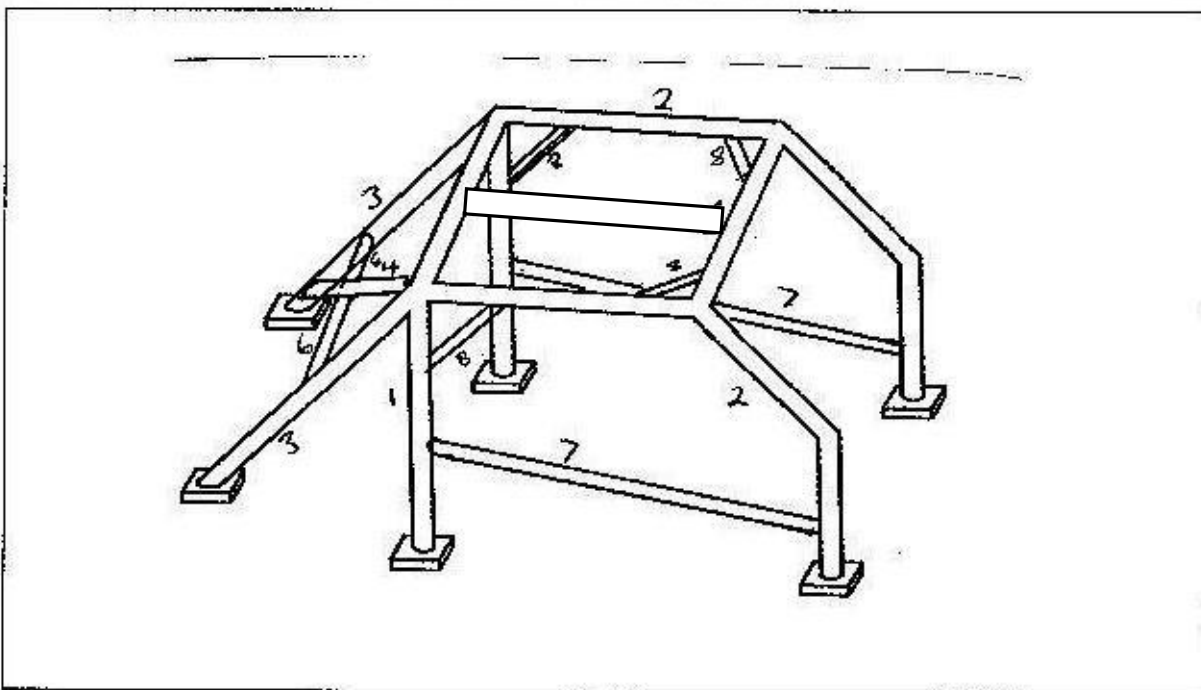
The roll cage design is free but must include the following minimum members:

- a) Main Hoop
- b) Diagonal on main hoop from rear mount to above driver's head
- c) Minimum of a single door intrusion bar on each side positioned as close to the door covering as possible.
- d) Minimum of a single bar in the centre of the roof
- e) Horizontal seat belt mounting bar.

Material shall be MSNZ-Q29 steel only. ASME 4130 Alloy (Chrome Moly) is not permitted.

Refer to diagram below for typical standard rollcage design.

SECTION 3 - SAFETY CAGE / ROLLBAR DRAWING (Refer instruction 3)



15.4.2 A competition seat, safety harness and fire extinguisher shall be installed in full compliance with Schedule A

15.4.3 A driver's window net shall be installed which must comply with Appendix Two Schedule A 4.5(1)

- (a) Window nets shall close the window aperture to the steering wheel, and
- (b) Be approved to an SFI standard or FIA requirements having the following characteristics:

- Minimum width of the strips: 19mm,
 - Minimum size of the meshes: 25 x 25mm,
 - Maximum size of the meshes: 60 x 60mm, and
- (c) Shall incorporate a 'quick release' system operable from both inside and outside the vehicle.

15.5 FUEL

15.5.1 Only MotorSport NZ approved unleaded fuels currently commercially available from a New Zealand service station forecourt pump may be used; **unleaded 91 octane (RON), unleaded 95 octane (RON), unleaded 98 octane (RON), E10 98 Octane (10% Ethanol Blend) and NPD unleaded 100 Plus.**

15.5.2 Avgas (Aviation fuel), any unleaded Race gas, E85 (Ethanol blend) and any octane boosting/additive products, or fuels that are outside of the ones listed in 15.5.1 are deemed illegal.

15.5.3 All competitors agree to fuel samples being taken for compliance purposes.

15.6 CHASSIS

15.6.2 Modification to the transmission tunnel by up to 50mm to allow for installation of seat anchorages is permitted. Lowering of any part of the floor pan is not permitted.

15.6.2 Seam welding is not permitted.

15.6.3 All vehicles shall be in an open condition with the soft top or hood removed.

15.6.4 Bolts, nuts and fasteners may be replaced with equivalent replacements.

15.7 BODYSHELL and VEHICLE EXTERIOR

15.7.1 All bodywork must be in a tidy condition in accordance with Schedule A clause 5.8.

15.7.2 No front spoiler may be fitted.

15.7.3 No rear spoiler may be fitted.

15.7.4 All body panels shall be the OEM supplied units or aftermarket equivalents. Alternative materials such as fiberglass and carbon fibre are not prohibited.

15.7.5 Wheel arch inner lips may be folded to provide tyre clearance, provided the outer guard shape is not altered.

15.7.6 Removal of the following parts is permitted:

- Wheel arch inner plastic linings
- Underbody plastic protection
- Antenna provided the hole is covered
- Indicator lamps fitted to the front guards provided the holes are covered.
- Body underseal
- Any unused fittings and brackets

15.7.7 Headlights may be removed, along with opening mechanisms and frames, but both standard headlight covers must remain, be fixed securely and remain flush with the surrounding body panels. The left-hand headlight cover may be replaced by a Mike Shaw Fibreglass induction unit.

15.7.8 Front Park/Indicator lights may be removed and replaced with lens covers. These must be securely fitted and occupy the same aperture as the original unit. The left side Park/Indicator light assembly may be removed for induction purposes.

15.7.9 The main door glass windows, excluding the quarter lights may be removed. Window winders and runners may also be removed.

15.7.10 The use of tape or any other means to cover body panel gaps is not permitted, unless absolutely necessary when used for a temporary repair following damage.

15.7.11 It is not permitted to modify the exterior bodywork to channel or duct additional air beneath the car or into the radiator or engine air intake,

15.7.12 Any protrusions through the firewall shall be covered with suitable rubber fittings or solid panels.

15.7.13 Exterior mirrors must be OEM original mirrors.

15.7.14 Fuel filler lid and boot release mechanisms may be modified or removed.

15.7.15 It is recommended the original bonnet and boot catches be removed and replaced by competition bonnet pins or catches.

15.7.16 Any shift knob may be used.

15.7.17 Short shift levers are permitted, provided they retain the factory location, general appearance and operating principle of the OEM lever.

15.8 INTERIOR

15.8.1 With the exception of the dashboard assembly and inner door cards, all interior trim and unused brackets may be removed, provided it complies with schedule A. Any sharp edges must be covered.

15.8.2 The OEM complete dashboard assembly including the steel support frame must remain in the standard location but may be modified for the installation of the roll cage. The radio/heater control panels may be removed provided any holes are covered and the 'tombstone' dash molding remains in place.

15.8.3 The driver's seat shall be replaced with a competition seat in accordance with Schedule A. The factory seat rails and support brackets may be modified, reinforced or removed to facilitate replacement seat mounting provided they perform no other function.

15.8.4 The passenger seat may be removed.

15.8.5 Instruments and switches may be removed, replaced or supplemented.

15.8.6 The steering lock assembly shall be removed for Dedicated Motorsport Vehicles and optional for all other vehicles. A replacement steering wheel is permitted in compliance with Schedule A.

15.8.7 Air conditioning, heater, blower and associated plumbing/fittings may be removed.

15.8.8 Both doors must retain the original interior door cards. The interior door armrest may be removed to allow for fitting of the roll cage. The standard interior and exterior door catches must be retained and in working condition

15.8.9 Anti-slip/alternative pads may be fitted to the pedals and a heel plate added

15.8.10 An internal rear-view mirror must be fitted.

15.8.11 The factory spare wheel and associated tool kit must be removed.

15.8.12 A stand-alone oil pressure gauge may be fitted.

15.9 ENGINE

15.9.1 The only permitted engine is the Mazda B6 engine with a bore of 78mm and a stroke of 83.60mm.

15.9.2 Head skimming is free. Cylinder block decking is prohibited.

15.9.3 Maximum overbore permitted is +0.50mm

15.9.4 Machining, polishing, drilling and lightening or adding material to engine components is prohibited other than the absolute minimum necessary to allow for recovery of damaged or worn components or balancing during assembly.

15.9.5 It is permitted to use aftermarket replacement pistons and rings provided they meet OEM form and dimensions, including weight.

15.9.6 Porting, polishing or any modification of the inlet or exhaust ports of the cylinder heads is prohibited, other than machining of valve seats during assembly.

15.9.7 OEM camshafts and cam pulleys must be used and may not be modified. The use of vernier cam pulleys is prohibited. Offset camshaft drive pins are prohibited. Only the OEM or equivalent 145-tooth x 22mm cambelt is permitted. Only the OEM or equivalent camshaft tensioner and OEM or equivalent camshaft idler pulley may be used and only in the stock location.

15.9.8 Cam cover may be altered and the plastic cam belt cover may be removed to expose the cam wheels and belt.

15.9.9 Only OEM or equivalent unmodified inlet and exhaust valves, valve springs, retainers and hydraulic lifters of factory dimensions specific to the Mazda B6 engine may be used.

15.10 ENGINE ANCILLIARIES

15.10.1 Only genuine Mazda or equivalent pattern aftermarket engine mounts may be used. The engine and gearbox must remain in the original location.

15.10.2 The OEM flywheel must be used. Lightening of the OEM flywheel is prohibited, however it is permitted to remove material to reface clutch area to a minimum weight of 7.85kg.

15.10.3 Clutch disc and pressure plate are free, provided they follow the pattern and diameter of OEM clutch, they mount to the OEM flywheel using the production mounting points and use the OEM or equivalent release bearing and slave cylinder.

15.10.4 Radiators are free provided they respect the standard core surface area and mount in the standard location.

15.10.5 Thermostat is free and may be removed, provided the original OEM housing is retained along with all factory routing and plumbing.

15.10.6 Cooling fan(s) may be removed or replaced.

15.10.7 The original emission, ISC (idle speed control) equipment and associated plumbing may be removed.

15.11 INDUCTION SYSTEM

15.11.1 The Air Flow Meter shall be the original unit and must not be adjusted from original factory supplied specifications. The unit must not be opened and the top cover and original sealant must remain in place. MX5 Racing NZ will hold a number of air flow meters. Upon request of the Series Scrutineer the competitor is required to remove their air flow meter and fit a unit supplied by MX5 Racing NZ or a unit from a competitor's car. The swapping of air flow meters may be ordered at any time by the Series Scrutineer. Competitors will be allowed one test/practice session to ensure the replacement air flow meter is working correctly.

15.11.2 The OEM intake duct components and baffle must be used from the throttle body directly to the intake of the standard Air Flow Meter. All components prior to the Air Flow Meter are free.

15.11.3 The complete inlet manifold system must remain as the factory original with no modifications.

15.11.4 Air intake cooling. Any artificial lowering of the atmospheric temperature is strictly prohibited

15.12 FUEL SYSTEM

15.12.1 OEM or equivalent fuel pump is permitted provided it is located in the original position.

15.12.2 Fuel filters are free

15.12.3 The fuel tank vent system may be modified to prevent potential spillage of fuel.

15.12.4 Any device or system that alters the temperature or pressure of the fuel from original is prohibited.

15.12.5 Only the OEM MX5 fuel injector, blue 13.8 ohms 205cc, Denso part number 195500-1970 may be used.

15.13 EXHAUST SYSTEMS

15.13.1 The OEM front exhaust manifold must remain and be fitted with the standard operational O2 sensor. It is permitted to remove material from inside of the exhaust manifold to a depth 10mm to align the head to manifold ports. Should such removal result in weakness or leakage it is permitted to locally repair the area by the addition of material to the outside of the manifold only.

15.13.2 The exhaust pipe rearward of the exhaust manifold is free provided a maximum outside pipe diameter (OD) of 60mm is respected in its entirety and the exit is in the original location.

15.13.3 The catalytic converter and rear O2 sensor may be removed.

15.13.4 The rear muffler design is free with a maximum entry inside diameter of 61mm and internal inside diameter of 61mm which must be respected throughout the length of the muffler.

15.14 IGNITION SYSTEM

15.14.1 Spark plugs and high-tension leads are free, but the ignition coil mounting bracket and layout must remain unmodified

15.14.2 Ignition timing is free

15.14.3 The ECU shall be the original unit and must not be modified. No alteration to wiring nor additional 'piggy-back' devices may be fitted that may alter the functionality or performance of the ECU, air flow meter, ignition timing or fuel injection. The ECU may be relocated to the front bulkhead under the dash area. MX5RacingNZ will hold a number of ECUs. Upon request of the Series Scrutineer the competitor is required to remove their ECU and fit a unit supplied by MX5RacingNZ or a unit from a competitor's car. The swapping of ECUs may be ordered at any time by the Series Scrutineer. Competitors will be allowed a test/practice session to ensure the replacement ECU is working correctly.

15.15 ELECTRICS

15.15.1 The tail lights and brake lamps must remain in place and fully functional at all times. Higher wattage bulbs are recommended.

15.15.2 The battery and its location is free. Battery terminals must be covered.

15.15.3 The battery and starter motor must be capable of at least 3 repetitive starts.

15.15.4 Redundant wiring, fuses, relays and connectors may be removed.

15.15.5 The OEM ignition switch may be removed and replaced with aftermarket switches.

15.15.6 An externally mounted circuit breaker may be fitted.

15.15.7 A rear LED rain light must be fitted in accordance with Schedule A

15.16 SUSPENSION

15.16.1 Any single-action damping adjustable shocks with height adjustable spring platforms are permitted. The following options are recommended:

- a. GAZ Gold Professional.
- b. Bilstein
- c. George Stock & Co (springs)

15.16.2 Spring are free

15.16.3 Suspension bushings must be OEM or the equivalent polyurethane bush.

15.16.4 Suspension pickup points must remain as standard.

15.16.5 It is permitted to detach but not remove the front or rear anti-roll bars.

15.16.6 The only permitted anti roll bars are the OEM supplied bars:

- Nominal Front Diameter 19.2mm
- Nominal Rear Diameter 12.5mm.

15.16.7 OEM or replica braces may be added to the rear subframe. Replica mounts may be added to the rear subframe for the sole purpose of mounting the braces.

15.17 TRANSMISSIONS

15.17.1 The OEM 5 speed gearbox only shall be used. The only permitted transmission and final drive ratios are:

Gearbox Ratios

1 st	3.136 : 1
2 nd	1.888 : 1
3 rd	1.333 : 1
4 th	1.000 : 1
5 th	0.814 : 1

Final Drive Ratio

4.300 : 1

15.17.2 It is prohibited to modify the transmission in any way that will alter the operation of any of the internal components.

15.17.3 The conversion from an automatic transmission to an OEM manual 5 speed gearbox and any modification to facilitate such conversion is permitted provided it is solely for that purpose. Any parts required in the conversion shall be OEM as from a manual MX5.

15.17.4 The differential shall be either the unmodified OEM “open” or “viscous LSD (VLSD)” unit. Any other type of limited slip differential or locked diff is prohibited.

15.17.5 Diff mounting bushes must be OEM or equivalent polyurethane bush.

15.17.6 Any shift knob may be used.

15.18 BRAKES

15.18.1 Brake pads are free.

15.18.2 Brake lines and hoses are free, provided Schedule A compliance is maintained. Steel braided flexible hoses are recommended.

15.18.3 Brake rotors are free provided they are ferrous and respect the original diameter and thickness. Slots, grooves and cross drilling is not permitted.

15.18.4 The OEM brake calipers must be used in the original locations

15.18.5 Steel backing plates may be modified or removed. Any form of fabricated brake ducting is prohibited.

15.18.6 Vehicles fitted with Anti-lock braking systems must have those disabled or removed.

15.18.7 The handbrake must remain standard and **pass a stall test.**

15.18.8 An aftermarket or adjustable brake bias valve is not permitted.

15.18.9 Brake master cylinder reinforcement brackets are permitted.

15.19 WHEELS and STEERING

15.19.1 Manual or power steering may be used provided the ratio remains standard. It is permitted to convert a power steering rack to manual. Unused power steering components and fittings may be removed.

15.19.2 Wheels are free to a maximum size of 15"x7" and must fit within the standard arches.

15.19.3 Wheel spacers are prohibited and the OEM wheel studs must be used

15.20 CONTROL TYRES

15.20.1 Tyres are to be Hankook Ventus RS4 195-50R 15 and shall have a minimum tread depth in accordance with Schedule A 4.9 (3) (b) All tyres shall have a minimum tread groove depth of 1.5mm as defined by the manufacturers tread depth indicators within all grooves around the entire circumference of the tyres road contact surface.

15.20.2 The following treatments/modifications are specifically prohibited:

- Hand cut tread grooves.
- Tyre warmers.
- Chemical treatments or any means to artificially enhance tyre performance.

16. OFFICIAL SEALS

16.1 Provision for fitment of seals: All vehicles shall have provisions for wire seals to be affixed to the following positions. Accordingly a 3.0mm hole shall be pre-drilled in readily accessible positions in such a manner that the relevant part cannot be removed without breaking the affixed seal.

1. Engine and head joint.
2. Gearbox side – two adjoining bolts
3. Final drive head – two adjoining bolts

16.2 All cars may have seals fitted during the season as directed by the Series Scrutineer.

16.3 Removal of seals: Official Seals shall not be tampered with, broken or removed during the series or within 30 days of the final round unless written permission is obtained by the series scrutineer. Any seal(s) removed without permission shall immediately forfeit all points earned in the series to date.

MX5RacingNZ is supported by and recommends:

Manawatu Car Club. Jeff Braid

manawatucarclub.org.nz

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Racetech NZ
GAZ Racing Shocks NZ
Coby performance exhausts
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