

## 2022-23 Mazda Racing Series Schedule M Technical Amendment

*This amendment is issued under the provisions of the MotorSport NZ National Sporting Code Article 18(2) in confirmation that the following amendments, notices or points of clarification have been authorised to the text of the Technical Regulations of the above-named Series. It is recommended that in addition to retaining a copy of this bulletin all parties modify the text of the regulations according to the following:*

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### Technical Schedule Amendment

1. Amend Part A as stated in the schedule below.
2. Amend Part C as stated in the schedule below.
3. Amend Part D as stated in the schedule below.

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#### 1. PART A

##### A2.0 DEFINITIONS

##### A2.1

(...)

**'Control Part'** means parts that are fully controlled in respect to their specification and application. No modification is authorised to a control part unless it is specifically within these technical regulations. All control parts shall be supplied by the NZ Mazda Racing Series Inc. appointed control part supplier, as detailed in these technical regulations.

(...)

**Reason:** *New control part definition added.*

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#### 2. PART C

##### C8.0 TRANSMISSION, GEARBOX and DIFFERENTIAL

(...)

**C8.5.1 ~~Limited slip differential:~~** ~~A direct replacement limited slip differential centre from another similar RX7, to which it is to be fitted, is permitted, or:~~

~~A 'Club supplied' only, KAAZ '1.5 Way' LSD is authorised under the following conditions:~~

- ~~• The LSD shall be fitted as supplied configured with the '65% lock setting', and~~

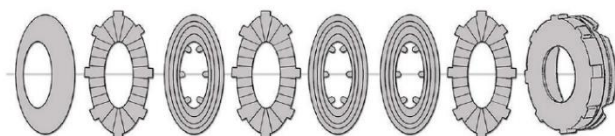
- The LSD unit shall not be disassembled without authorisation from the Series Scrutineer, and
- No changes or adjustment of the LSD 65% engage lock setting is permitted, and
- The diff housing rear cover plate must have two adjacent attachment bolt heads drilled with 2.5mm holes for sealing by the Series Scrutineer. It is recommended the two RH lower bolts or the two LH lower bolts are drilled as per diagram C8.5
- The supplied Kaaz sticker must be applied to RH roll cage below or above homologation I.D.

**Limited slip differential:** An original Mazda Rx7 Direct Replacement OEM Limited Slip Differential or the Control Part KAAZ 1.5 way Limited Slip Differential supplied by Manon Racing Products, NZ are the only permitted final drive units that are to be used. The Mazda Rx7 OEM LSD shall not be modified in any way. The KAAZ 1.5 way Control Part LSD must meet the following conditions;

- The Control Part Kaaz 1.5 way LSD shall be installed with locking plates configured to the 65% engage locking setting (Refer to Diagram C8.5). It is the competitor's responsibility to ensure the LSD is correctly configured, and
- Super Q - WPC treatment or similar friction reducing surface treatments are not permitted, and
- No change or adjustment to the LSD 65% engage locking setting is permitted, and
- The differential housing rear cover plate shall have two adjacent attachment bolt heads drilled with 2.5mm minimum diameter holes for sealing by the Series Scrutineer. The lower two RH or LH bolts are recommended for drilling as per diagram C8.6

C8.5 & D8.5

Example of 65% locking plate configuration (stacking).



**Diagram C8.5**

(...)

- C8.5.4** If the diff Control Part differential external housing seal has been approved to be broken for differential maintenance and checking, then the onus is on the competitor to comply with C8.5.1, and arrange new seal to be applied at the commencement or during the next available Round. If differential torque tests are found to be outside of normal tolerances, then the Series Scrutineer may

request that the diff be removed and checked by authorised personnel whenever suitable time allows.

**C8.5.5** Control Part LSD with external differential housing cover plate sealed shall not be disassembled without written permission from the Series Scrutineer at any time including after 30 days post final Series Round. If no differential external housing seal has been applied, maintenance may be carried out at any time.

**Reason:** To clarify the supply of the alternative control differential. As well as add diagrams for clarification of the 65% engage locking setting. Clarification of the sealing of the differential housing rear cover plate.

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### 3. Part D

#### D8.0 TRANSMISSION, GEARBOX and DIFFERENTIAL

(...)

**D8.5.1 ~~Limited slip differential:~~** ~~A direct replacement limited slip differential centre from another similar RX7, to which it is to be fitted, is permitted, or:~~

~~A 'Club supplied' only, KAAZ '1.5 Way' LSD is authorised under the following conditions:~~

- ~~• The LSD shall be fitted as supplied configured with the '65% lock setting', and~~
- ~~• The LSD unit shall not be disassembled without authorisation from the Series Scrutineer, and~~
- ~~• No changes or adjustment of the LSD 65 engage lock setting is permitted, and~~
- ~~• The diff housing rear cover plate must have two adjacent attachment bolt heads drilled with 2.5mm holes for sealing by the Series Scrutineer. It is recommended the two RH lower bolts or the two LH lower bolts are drilled as per diagram D8.5~~
- ~~• The supplied Kaaz sticker must be applied to RH roll cage below or above homologation I.D.~~

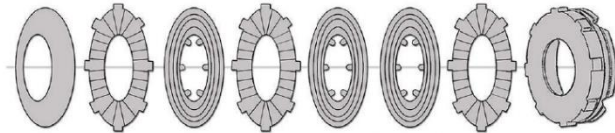
**D8.5.1 Limited Slip Differential:** An original Mazda Rx8 Direct Replacement OEM Limited Slip Differential or the Control Part KAAZ 1.5 way Limited Slip Differential supplied by Manon Racing Products, NZ are the only permitted final drive units that are to be used. The Mazda Rx8 OEM LSD shall not be modified in any way. The KAAZ 1.5 way Control Part LSD must meet the following conditions;

- The Control Part Kaaz 1.5 way LSD shall be installed with locking plates configured to the 65% engage locking setting (Refer to Diagram D8.5).. It is the competitor's responsibility to ensure the LSD is correctly configured, and
- Super Q - WPC treatment or similar friction reducing surface treatments are not permitted, and
- No change or adjustment to the LSD 65% engage locking setting is permitted, and

- The differential housing rear cover plate shall have two adjacent attachment bolt heads drilled with 2.5mm minimum diameter holes for sealing by the Series Scrutineer. The lower two RH or LH bolts are recommended for drilling as per diagram D8.6

C8.5 & D8.5

Example of 65% locking plate configuration (stacking).



**Diagram D8.6**

(...)

**D8.5.4** If the diff Control Part differential external housing seal has been approved to be broken for differential maintenance and checking, then the onus is on the competitor to comply with D8.5.1, and arrange new seal to be applied at the commencement or during the next available Round. If differential torque tests are found to be outside of normal tolerances, then the Series Scrutineer may request that the diff be removed and checked by authorised personnel whenever suitable time allows.

**D8.5.5** Control Part LSD with external differential housing cover plate sealed shall not be disassembled without written permission from the Series Scrutineer at any time including after 30 days post final Series Round. If no differential external housing seal has been applied, maintenance may be carried out at any time.

**Reason:** To clarify the supply of the alternative control differential. As well as add diagrams for clarification of the 65% engage locking setting. Clarification of the sealing of the differential housing rear cover plate.

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This bulletin is issued by MotorSport NZ  
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