

RACING MEMO

**ISSUED:** May 12, 2023 **NUMBER:** RM 23-07

**FROM:** Board of Directors

**TO:** All Participants

**SUBJECT:** #34329 (Formula/Sports Racing Committee) USF2000 Van Diemen with  
Mazda MZR LF-DE 2.0L in FC

In FC, GCR section 9.1.1.B.1, add a new section and re-letter the following sections accordingly:

*"c. The USF2000 tube frame Van Diemen car powered by the Mazda MZR LF-DE 2 liter engine is added as a "spec line" car in Formula Continental. Additional "spec line" cars are disfavored, and Balance of Performance (BoP) adjustments to keep "spec line" cars competitive with cars that meet the class formula are likewise disfavored."*

In FC, GCR section 9.1.1.B.11, add the following:

"The only permitted engines are:

- a. The Ford 2 liter single overhead camshaft "NE" series engine or the 1971-74 Pinto/Capri 2 liter single overhead camshaft engine. The specifications are contained in B.15.
- b. The Ford Zetec ZX3 2 liter dual overhead camshaft engine. The specifications are contained in B.16.

*c. The Mazda MZR LF-DE 2 liter for use only in USF2000 cars, as described in the Spec Line Cars Table below."*

In FC, GCR section 9.1.1.B, add the following:

\*\*\*See attached\*\*\*

In FX, GCR section 9.1.1.J.B, change as follows and renumber the remaining lines accordingly:

~~"3. USF2000 (tube frame)—Shall comply with FRP F2000 Technical Specifications (2018)~~

~~4. Pro Formula F2000 (tube frame)—Engine must be prepared to current FC rules."~~

In FX Table 1, remove the USF2000 Tube Frame and Pro Formula F2000 Tube Frame spec lines in their entirety.

Spec Line Cars Table						
Car	Engine	Wheel Width (in) ± .060 inch	Aero	Transmission	Weight	Notes
USF2000 Tube Frame as described at 2.2.1.4 in the FRP Mazda MZR F2000 Technical Specifications (2018) found here <a href="https://www.scca.com/pages/technical-forms-and-downloads">https://www.scca.com/pages/technical-forms-and-downloads</a>	2.0 Liter Mazda MZR shall comply with MZR LF-DE specifications found here <a href="https://www.scca.com/pages/technical-forms-and-downloads">https://www.scca.com/pages/technical-forms-and-downloads</a>	See Notes	See Notes	<p>Hewland JL-200 Minimum weight (dry) 34.4 kg/75.8 lbs</p> <p>Allowed Gears  1<sup>st</sup>: 15-29  2<sup>nd</sup>: 17-27  3<sup>rd</sup>: 18-25  4<sup>th</sup>: 19-23  5<sup>th</sup>: 24-26</p> <p>R&amp;P: 12-34</p> <p>Gearbox shall comply with the FRP Mazda MZR F2000 Technical Specifications (2018) found here <a href="https://www.scca.com/pages/technical-forms-and-downloads">https://www.scca.com/pages/technical-forms-and-downloads</a></p>	1220 lbs	<p>Car shall comply with what is described in the file "USF2000 Tube Frame Van Diemen in FC-V2.pdf", which includes the FRP Mazda MZR F2000 Technical Specifications (2018), found here: <a href="https://www.scca.com/pages/technical-forms-and-downloads">https://www.scca.com/pages/technical-forms-and-downloads</a> with the following exceptions. All cars shall comply with GCR 9.1.1.B.10 Wheels and Tires. Spec sealed Dynamics 1640 dampers may be replaced with any damper that complies with current FC rules. Cars shall be equipped with four (4) dampers. Third spring arrangements or additional dampers are not permitted; this is a one-for-one replacement. Dampers must be independent of each other with no interconnectivity. Dampers must be manually adjustable only. Mechatronic valves, G-valves, inerters, mass dampers, and similar damper/suspension technologies are prohibited. Electromagnetic shock fluid is prohibited. All other Damper aSpring</p>

					<p><i>regulations as set forth in FRP Mazda MZR F2000 Technical Specifications (2018) apply. Bellcranks shall comply with specifications found here:</i></p> <p><i><a href="https://www.scca.com/pages/technical-forms-and-downloads">https://www.scca.com/pages/technical-forms-and-downloads</a>.</i></p> <p><i>Spec PFC brake calipers may be replaced with Wilwood Calipers No. 120-13863-N (right) and No. 120-13864-N (left). Any brake pad is permitted. Any solid ferrous brake rotor is permitted but must be of OE size. All cars shall comply with the Mazda MZR LF-E2 2.0L Engine Rules in the document described above named document.</i></p>
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