

TECHNICAL BULLETIN

DATE: January 20, 2021

NUMBER: TB 22-02

FROM: Club Racing Board

TO: Competitors, Stewards, and Scrutineers

SUBJECT: Errors and Omissions, Competition Adjustments, Clarifications, and Classifications

All changes are effective 2/1/2022. If any day of a race event falls on the first day of the month, the previous month's rules will be in effect for that event only. The new rules will become effective at the conclusion of the race event, unless otherwise noted.

NOTE: This preliminary version of the Road Racing Technical Bulletin is provided at this time as a service to the membership. These items may be corrected and will not be official until published on the Fastrack page of the scca.com website on or about January 20.

American Sedan

None.

B-Spec

1. #30759 (David Daughtery) Request to Classify 2020-21 Versa S

In B-Spec Spec Lines, classify Nissan Versa S (2020-) as follows:

BSpec	Bore x Stroke(mm)/ Displ. (cc)	Wheelbase (mm)	Gear Ratios	Final Drive	Brakes (Inches)	Weight (Lbs)	Notes:
<i>Nissan Versa S (2020-)</i>	<i>78.0 x 83.6 1598cc</i>	<i>2618</i>	<i>3.73, 2.05, 1.39, 1.03, 0.82</i>	<i>4.07</i>	<i>(F) 10.2 (R) 8.0 drum</i>	<i>2700</i>	<i>38mm FPR</i>

2. #31045 (Alex Ratcliffe) Request to Classify the Toyota IA sedan & Scion IA Sedan for 2022

In B-Spec Spec Lines, classify Toyota/Scion IA Sedan (2016-2020) as follows:

BSpec	Bore x Stroke(mm)/ Displ. (cc)	Wheelbase (mm)	Gear Ratios	Final Drive	Brakes (Inches)	Weight (Lbs)	Notes:
<i>Toyota/Scion IA Sedan (2016-2020)</i>	<i>74.5 x 85.8 1496cc</i>	<i>2570</i>	<i>3.58, 1.90, 1.29, 0.97, 0.80, 0.65</i>	<i>4.11</i>	<i>(F) 10.2 (R) 7.9 drum</i>	<i>2700</i>	<i>38mm FPR</i>

3. #31442 (Kent Carter) Mazda 2 Undertray

In B-Spec Spec Lines, Mazda2 (10-14), change Notes as follows:

"Allow Bilstein B14 suspension kit 47-167490. Powerflex PFR19-1511BX2 rear suspension bushings allowed. Allow Mazda part number - 0000-01-2501-CR Radiator. Allow Exhaust Header Kit (cat delete) HB.EM 60-404-S-SS or HP-MZD001.

Allow Mazda Motorsports Exhaust Header Kit (cat delete) PT#-0000-06-2401. *Allow Mazda undertray part number 277344.*"

Electric Vehicle

None.

Formula/Sports Racing

FA

1. #31985 (Formula/Sports Racing Committee) Reorganize Tables 1 and 2

In FA, GCR section 9.1.1.A.2.b, make changes as follows:

"The following modifications are permitted unless restricted in the *sections or tables below that follow.*"

In FA, GCR section 9.1.1.A.2, add a new section as follows:

"c. 2.0 liter Honda K20Z3

1. Block must be OEM Honda Civic K20Z3 2.0 liter PN 11000-RRB-810, maximum bore 86.070mm (3.3886").
 2. Crankshaft must be OEM Honda Civic PN 13310-PRB-A00, maximum stroke 86.1mm (3.390"), unmodified main and rod journals, minimum weight 37.5 lbs.
 3. Connecting rods must be OEM Honda Civic PN 13320-PRBA01, maximum center-to-center rod length 138.95mm (5.470"), minimum weight with fasteners 580g.
 4. Maximum compression ratio 12.7:1 +/- 0.2.
 5. Pistons, rings, pins, and circlips must be HPD-supplied kit PN 13100-FC4Y-A000, piston minimum weight 325g, wrist pin minimum weight 101g.
 6. Head must be OEM Honda Civic K20Z3 2.0 liter PN 12100-RBC-000, ports must be as cast beginning 1.00" into ports.
 7. Valves must be OEM Honda Civic K20Z3 2.0 liter PN 14711-PRB-A01 with minimum stem diameter 5.445mm and maximum head diameter 35.15mm (intake), PN 14721-PRB-A00 with minimum stem diameter 5.420mm and maximum head diameter 30.15mm (exhaust).
 8. Valve springs must be HPD-supplied kit PN 14700-FC4YA000.
 9. Camshafts must be OEM Honda PN 14100-FC4Y-A000 (intake and exhaust set). Maximum intake valve lift measured at retainer PRI (front) 8.50mm, MID 13.50mm, SEC (rear) 9.50mm, maximum exhaust valve lift measured at retainer PRI (front) 8.00mm, MID 12.20mm, SEC (rear) 8.00mm. Maximum intake valve duration above 1mm measured at retainer PRI (front) 202 degrees, MID 262 degrees, SEC (rear) 210 degrees, maximum exhaust valve duration above 1mm measured at retainer PRI (front) 202 degrees, MID 250 degrees, SEC (rear) 202 degrees.
 10. Intake manifold and throttle body assembly may be either the original, unmodified HPD parts or unmodified AT Power Direct-To-Head (DTH) 45mm individual throttle bodies, PN 102-104-00020.
 11. Exhaust header must be used as delivered from HPD. Collector must be 4-into-1 design.
- The CRB reserves the right to implement a requirement that engines be submitted for dyno testing and sealing at any time. If implemented, engine performance will be compared to known specimens. Engines will be denied a seal if they test above 102% of the standard power and torque curve and will be ineligible for competition until power is corrected and the engine is sealed. The participant will be responsible for all costs of dyno testing and delivery. This provision is included to dissuade the competitors from exploiting the rules and expending funds to maximize performance of a budget-minded engine option."

In FA, GCR section 9.1.1.A.2, add a new section as follows:

"d. 2.0 liter Mazda MZR

1. Block must be OEM Mazda MZR 2.0 liter casting #LF95, maximum bore 3.455".
2. Crankshaft must be forged OEM Mazda 2 liter marked "fomoco" DBE8Z31E, maximum stroke 3.270", minimum rod journal diameter 1.830", minimum main journal diameter 2.026", minimum weight 31.5 lbs.
3. Connecting rods must be magnetic steel; maximum rod length 5.760", minimum weight with fasteners 530g.
4. Maximum compression ratio 13.1:1.
5. Piston minimum weight 280g. Wrist pin minimum diameter .825", minimum weight 83g.
6. Head must be OEM Mazda 2.0 liter MZR, part #LF9G-10-090A, casting #6M8G, with minimum chamber volume 40.5cc; ports must be as cast beginning 1.2" from valve seat insert.

7. Valves must be steel; minimum stem diameter 5.45mm, maximum head diameter 1.402" (intake) and 1.21" (exhaust).
 8. Camshafts must be Kent DTEC 80 or Mazda Speed PN 1410001I (intake) and PN 141001E (exhaust), maximum lift .478" (intake) and .446" (exhaust), maximum duration 260 degrees at 1mm lift (intake) and 256 degrees at 1mm lift (exhaust).
 9. Intake manifold must be unmodified Elan DP02-60-003 or Mazda Speed equivalent Elite USF2015AT, 1.882" maximum bore diameter at throttle plates.
 10. Aluminum spacer must be used between intake manifold and cylinder head castings; minimum spacer length 2.200".
 11. Exhaust header may be Pro Fab PN P97819 or Pro Fab PN 100002-01 and must use Pro Fab PN H0503 flange. Collector must be 4-into-1 design. Maximum primary pipe OD 1.75", maximum tail pipe OD 2.5".
- The CRB reserves the right to implement a requirement that engines be submitted for dyno testing and sealing at any time. If implemented, engine performance will be compared to known specimens. Engines will be denied a seal if they test above 102% of the standard power and torque curve and will be ineligible for competition until power is corrected and the engine is sealed. The participant will be responsible for all costs of dyno testing and delivery. This provision is included to dissuade the competitors from exploiting the rules and expending funds to maximize performance of a budget-minded engine option."

In FA Table 1, make changes as follows:

Table 1						
FA Spec Line	Engine Series	Max. Displ. (cc)	Max. Valves / Cyl.	Notes	Req'd Restrictor	Min. Weight (lbs)
A.	Ford BD Series	1615	4	Any BD series iron or alloy cylinder block and alternate crankshaft permitted.	n/a	1175 1250
B.	Honda B16	1615	4		n/a	1175 1250
C.	Mazda MZR/ Ford Duratec	1615	4	2.0L engine destroked to 1615cc.	n/a	1175 1250
D.	Toyota 4A-GE	1615	4		n/a	1175 1250
E.	Toyota 4A-GE	1800	4		n/a	1280
F.	Honda K20Z3	2000	4	See section 2.c	n/a	1350
G.	Mazda MZR/ Ford Duratec	2000	4	See section 2.d	n/a	1300
H.	Mazda MZR/ Ford Duratec	2300	4	Maximum compression permitted 14.0:1	30mm SIR	1450
I.	Mazda MZR/ Ford Duratec	2500	4		29mm SIR	1475

Engine Notes

(Notes apply only to purpose-built and ex-pro Formula Atlantic cars and not to spec line cars in Table 2)

Note 1: ~~Add~~ Subtract 25 lbs for non-sequential transmission.

Note 2: ~~Add~~ Subtract 25 lbs for fuel injection carbureted engine.

Note 3: ~~Add~~ Subtract 25 lbs for non-metallic chassis.

In FA Table 2, delete the 1.8 liter Toyota 4A-GE spec line in its entirety.

In FA Table 2, delete the 2.0 liter Mazda MZR spec line in its entirety.

In FA Table 2, delete the 2.0 liter Honda K20Z3 spec line in its entirety.

In FA Table 2, delete the 2.3 liter Mazda MZR/Ford Duratec (Ralt RT40/RT41, Swift 008/014) spec line in its entirety.

In FA Table 2, delete the 2.5 liter Mazda MZR/Ford Duratec (Ralt RT40/RT41, Swift 008/014) spec line in its entirety.

FX

1. #31881 (Moses Smith) FM Rule Set Clarification

In FX, GCR section 9.1.1.J.B.1, change as follows:

"Formula Mazda – Shall comply with ~~GCR 9.1.1.E (2019)~~ *notes in Table 1.*"

In FX Table 1, Formula Mazda spec line, change the notes as follows:

"Marking tires is no longer required. Car must comply with all ~~December 2019 GCR Formula Mazda preparation rules~~ *specifications* found here: <https://www.scca.com/downloads/48184-gcr-december-2019/download> *FormulaMazda-FM-Rules.*"

Attach new document to site link.

2. #31940 (Formula/Sports Racing Committee) E&O F4 Tires

In FX, GCR section 9.1.1.J.B.2, add the following:

"Formula 4 – Shall comply with FIA Formula 4 Technical Regulations (2015) and all subsequent safety requirements as issued by the FIA and/or SCCA, *except that tire choice is unrestricted.*"

In FX Table 1, FIA Certified F4 spec line, change the notes as follows:

"Upon request, competitors must provide a copy of the rules in effect when the car was certified by the FIA. *Tire choice is unrestricted.*"

3. #31951 (Formula/Sports Racing Committee) E&O USF2000 Tube Frame

In FX Table 1, USF2000 Tube Frame spec line, change the notes as follows:

"Any Hoosier ~~radial~~ tire measuring 20.5 x 7.0 x 13 (front) and 22.5 x 8.0 x 13 *or 22.0 x 8.0 x 13* (rear) may be used."

P2

1. #31969 (Formula/Sports Racing Committee) E&O Engine section

In P2, GCR section 9.1.8.D.L.c.1, change as follows:

"SCCA approved production based motorcycle engines with a maximum of 4 cylinders and with a maximum displacement of ~~1500~~ *1505*cc."

In P2, GCR section 9.1.8.D.L.d, change as follows:

"Two Stroke Engine: 2 stroke engines with a maximum displacement of ~~1200~~ *1205*cc and a maximum of 4 cylinders."

In P2, GCR section 9.1.8.D.L.h.1, change as follows:

"Automotive engine based cars *use a* minimum weight ~~of 1300~~ *1350* lbs. *unless otherwise stated in the tables.*"

GCR

GCR

1. #30990 (Karen Crider) Video Standards for HST/Runoffs

In GCR, Section 9.3.11.A. change as follows:

"9.3.11. CAMERA & CAMERA MOUNTS (*effective 01 July 2022*)

A. All cars competing at Super Tour events and the SCCA Runoffs must have a forward-facing camera that is recording at all times while on track and provides a clear horizontal field of view of the cars and track ahead. The cameras may be mounted either inside the car, or on the body. If video is needed as part of an investigation of an incident, a competitor's video of the full unedited session may be requested by race officials regardless of whether or not said competitor was involved in the incident. Failure to provide such video may result in penalties. Forward-facing cameras are recommended at all other SCCA-sanctioned events. *The video format must be a digital file so it can be viewed in an MS Windows compatible viewer.*"

2. #31318 (Austin Hilliard) Rain Lights

In GCR, Section 9.3.32.B., change as follows:

"All cars shall be equipped with rain light(s) clearly visible from the rear. *The rain light(s) shall be turned on when directed to by the Race Director or Chief Steward.*"

In GCR, Section 9.3.32.B.2., change as follows:

"All Formula (open wheel) and Sports Racing cars shall be equipped with a red taillight of at least the equivalent illumination power of a 15-watt bulb. This light shall be mounted on the centerline of the car. Light assemblies shall be considered one light for the purposes of this rule, irrespective of the number of individual lamps the assembly may contain. *FIA Technical List N 19 rain lights are recommended.*"

3. #31790 (Bob Gardner) Error & Omission in Rule 9.3.29 Identification Markings

In GCR, Section 9.2.29, change as follows:

"Each car shall carry identification ~~numbers and class letters~~ *markings* per A and B, below, SCCA logos per C, *the sections listed* below; and any markings required by the Supplemental Regulations."

4. #31794 (SCCA Staff) Tow Hooks For One Piece Front Ends

Effective 03/01/2022 In GCR, Section 9.3.48, change as follows:

"All cars ~~without an exposed roll bar~~ shall have a towing eye or strap, front and rear, that does not dangerously protrude from the bodywork when the car is racing, to be used for flat towing or hauling the vehicle. ~~A removable towing eye carried inside the car is not acceptable, except in formula cars and Sports Racing cars.~~ These towing eyes or straps shall be easily accessible without removal or manipulation of bodywork or other panels. ~~Towing eye~~ *The minimum ID of the tow eye is 2 inches.* The required tow eyes must be strong enough to tow the car from a hazard such as a gravel trap.

~~The front tow eye may be mounted in the driver/passenger side window openings, or at any location forward of the windshield, and a hole may be cut in the bodywork for the sole purpose of clearing a protruding tow eye. If mounted in the driver/passenger side window openings, it must be attached to the forward roll cage down tube as close to the base of the windshield as possible. If the front tow eye is located in the side window openings there shall be one on each side of the car.~~

Open top cars may use their exposed roll bar for towing purposes. Closed top cars may mount the front tow eye in the driver/passenger side window openings, but it must be attached to the forward roll cage down tube as close to the base of the windshield as possible, and there shall be one on each side of the car.

A removable towing eye carried inside the car is not acceptable, except in Formula and Sports Racing cars. In addition, for Formula and Sports Racing cars, if the main hoop is faired in, the fairing shall have access holes to allow the insertion of a bar or strap to allow the car to be lifted by a wrecker.

Rear tow eyes must be accessible rearward of the rear axle centerline. ~~In addition, for Formula and Sports Racing cars, if the main hoop is faired in, the fairing shall have access holes to allow the insertion of a bar or strap to allow the car to be lifted by a wrecker.~~

5. #31937 (SCCA Staff) E&O expired helmet certifications

In GCR section 9.3.19.C.2, correct helmet certifications as follows:

"Crash helmets approved by the Snell Foundation with Snell sticker ~~2010~~2015 or later Special Application SA~~2010~~2015/SAH~~2010~~2015, or by the SFI with a SFI Sticker SFI 31.1/~~2010~~2015 or newer, or by the FIA standard 8859-~~2018~~2015 or FIA 8860~~2004~~2010 or newer."

General

General

1. #31968 (SCCA Staff) Remove Radical Cup from Pro Path

In GCR, Section 3.7.4.A.1.a., remove as follows:

"P2 – Radical Cup North America"

Grand Touring

GT1

1. #31844 (Richard Grant) Wheel Widths

In GCR, Section 9.1.2.D.7.a., change as follows:

"2. Wheels may be thirteen (13), fourteen (14), fifteen (15), ~~or sixteen (16)~~, *seventeen (17) or eighteen (18)* inches in diameter, but all four (4) wheels shall be the same diameter. *Use of eighteen (18) inches wheels must add 50 lb. weight penalty.*

3. Wheels shall have a maximum width of twelve (12) inches in the front *and thirteen (13) inches in the rear. 18" tires shall have thirteen (13) in the front and fourteen (14) inches in the rear.*"

GT2

1. #31991 (Grand Touring Committee) GT2/ST Porche Cayman #31451 correct TBR size error

In GT2-ST Spec Lines, Porsche Cayman (05-15), change Notes as follows:

"4.0L ~~70~~75mm"

GT3

1. #31803 (Daniel Snow) Request to add Fiat to GT3 CARS

In GT3 Spec Lines, classify *Fiat Spider 2000, Years 79-81, as follows:*

GT3 Cars - FIAT

Model	Years	Body Style	Drive-line	Wheel-base (in)	Notes
<i>Fiat Spider 2000</i>	<i>79-81</i>		<i>RWD</i>	<i>89.76"</i>	

2. #31804 (Daniel Snow) Request to add Fiat to GT3 CARS

In GT3 Spec Lines, classify Fiat X-19, Years 72-89, as follows:

GT3 Cars -

Model	Years	Body Style	Drive-line	Wheel-base (in)	Notes
<i>Fiat X-19</i>	<i>72-89</i>	<i>2 Dr.</i>	<i>Rear Engine</i>	<i>86.7</i>	

Improved Touring

ITC

1. #31842 (John McFarland) Volkswagen New Beetle

In ITC Spec Lines, Volkswagen Beetle (98-99), change year as follows:

"(98-99~~05~~)"

Legends Car

None.

Production

EP

1. #31831 (Hayes Flynn) Porsche 968 Engine Questions

In EP spec line "Porsche 968 (92-95)", add to Notes:

"*Dry sump is allowed.*"

2. #31833 (RON OLSEN) Request weight reduction for 1979-1985 Mazda RX-7

In EP Spec Lines, Mazda RX-7 (12A/13B) (79-85), change Weight as follows:

"12A:

~~2000~~*1950*

*~~2050~~*1999*

**~~2100~~*2048*

13B:

~~2075~~*2025*

*~~2127~~*2076*

**~~2179~~*2126*"

HP

1. #31990 (Matthew Brannon) Incorrect Valve Size Changes in Jan 2022 GCR for FIAT X1/9

In HP Spec Lines, change Valve Specs as follows:

Fiat X-1/9 & Bertone 1500 - Level 2:

"(I) ~~35.5/(1.40)~~*36.3/(1.43)*

(E) ~~33.0/(1.30)~~*33.3/(1.31)*"

Fiat X-1/9 1300 - Level 2:

"(I) ~~35.5/(1.40)~~*36.3/(1.43)*

(E) ~~31.2/(1.23)~~"

Fiat X-1/9 1300 - Level 1:

EFFECTIVE FIRST DAY OF THE MONTH UNLESS OTHERWISE NOTED

"(I) ~~35.5/(1.40)~~ **36.3/(1.43)**

(E) 31.2/(1.23)

~~(E) 1.21"~~

Fiat X-1/9 1500 - Level 1/2:

"(I) ~~35.5/(1.40)~~ **36.3/(1.43)**

(E) ~~33.0/(1.30)~~ **33.3/(1.31)"**

Prod General

1. #31800 (David Boles) Throttle Body and Idle Air

In GCR, Section 9.1.5.E.1.b.1., change as follows:

"All inducted air must pass through the venturi(s) of the car's carburetor(s), *except that which passes through a stock/original idle control device.*"

In GCR, Section 9.1.5.E.1.b.4., change as follows:

"Fuel injection: All inducted air must pass through the throttle body and be subject to control by the throttle butterfly), *except that which passes through a stock/original idle control device.*"

In GCR, Section 9.1.5.E.1.b., add the following:

"9. Stock/original idle control devices can be utilized in their original, unmodified location and condition, or completely removed and any resulting openings blocked off. "

In GCR, Section 9.1.5.E.2.b.1., change as follows:

"All inducted air must pass through the venturi(s) of the cars carburetor(s), *except that which passes through a stock/original idle control device.* "

In GCR, Section 9.1.5.E.2.b.4., change as follows:

"Fuel Injection: All inducted air must pass through the throttle body and be subject to control by the throttle butterfly), *except that which passes through a stock/original idle control device.* "

In GCR, Section 9.1.5.E.2.b., add the following:

"9. Stock/original idle control devices can be utilized in their original, unmodified location and condition, or completely removed and any resulting openings blocked off. "

Spec Miata

None.

Super Touring

STU

1. #31434 (David Fiorelli) Request Allowance for Balance Shaft Delete in STU

In GCR, Section 9.1.4.G., add as follows"

"29. Any engine balance shafts and associated gears or pulleys may be removed and the resulting openings plugged (including those in oil passages). Alternate pulleys or gears, of the same number as stock, may be installed in the location of the balance shaft pulleys or gears if required for timing belt or chain operation; they must serve no other purpose. Any engine balance shafts and associated gears or pulleys may be removed and the resulting openings plugged (including those in oil passages). Alternate

pulleys or gears, of the same number as stock, may be installed in the location of the balance shaft pulleys or gears if required for timing belt or chain operation; they must serve no other purpose."

2. #31465 (Chip Herr) Request to Remove A4 1.8t from STU Spec Line Tables

In STU Spec Lines, Table B, Audi A4 Turbo, change as follows:

Model: "Audi-A4/~~VW 1.8~~ Turbo"

Minimum Weight: "~~Chart~~3050"

Notes: "~~K04 turbocharger permitted. IHI VF30 turbo with 35mm turbo inlet restrictor permitted~~*required.*"

In STU Spec Lines, Table B, Porsche 944 Max Disp. 1800, change as follows:

Minimum Weight: "~~Chart~~3050"

Notes: "VW/Audi 1.8L turbo *35mm* turbo engine permitted *inlet restrictor required.*"

3. #31916 (David Fiorelli) Request Louvers in hood vents

In GCR, Section 9.1.4.1 A.2., add as follows:

"Louvers within the 200 sq. inch are allowed."

Touring

T2

1. #31885 (Patrick Womack) BMW Z4M Adjustment

In T2 Spec Lines, BMW Z4M (06-08), change Weight as follows:

~~3150~~*3100*"

T4

1. #31102 (CHRISTOPHER WINDSOR) MX-5 Durability Detailed

In T4 Spec Lines, Mazda MX-5 / Club Model (06-15), change Notes as follows:

~~"The following items must remain stock OEM unmodified, unless alternate part numbers are permitted below: transmission, differential, and LSD. Factory bolt-in roll bar/cross member may be removed to facilitate roll cage installation. MSR option permitted. Suspension package permitted with a 100 lbs. weight increase that includes the following parts: front spring mount PT#-0000-04-5259, front springs #0000-04-9700-08, rear spring mount PT#-0000-04-5258, rear springs #0000-04- 9400-07, helper springs #0000-04-HLPR-EB (optional), Swaybar kit – PT#-0000-04-5306-EB that includes (front sway bar kit PT#0000-04-5306-FT, rear sway bar kit PT#-0000-04-5306-RR), offset front camber bushing PT#-0000-04-5407-NC. Mazda Motorsports cold air intake part #0000-06- 5150-KT allowed. Mazda Motorsport RX8 rear Hub Conversion kit part number 0000-04-5811-KT allowed, RX8 front hubs PT# F189-33-04X allowed. The SM5 suspension (only) is allowed with a 100 lbs. weight increase. **Non-OEM limited slip differential allowed with +50 lbs. weight penalty.** Allow Mazda header part numbers 0000-06-5407 or 0000-06-5407-NC. Any OEM or aftermarket hardtop is permitted that retains the OEM roof silhouette, including Mazda hardtop and part #0000-07-5901-CC. Aftermarket power steering reservoir is allowed. Mazda Transmission kit part # 0000-02-5700. **Non-OEM limited slip differential allowed with +50 lbs. weight penalty.**"~~

2. #31624 (Rich Grunenwald) Request Allowances for 2005 - 2010 Mustang

In T4 Spec Lines, Ford Mustang V6 (05-10), add to Notes as follows:

"Koni part numbers 8741.1494 (front) and 8741.1240 (rear)."