

## SCCA Club Racing VTS Sheet

This form is required for all car classifications requests.

VEHICLE MANUFACTURER: Wolf Racing Cars

YEAR & MODEL: 2021 GB08 F1

This specifications form was developed by SCCA Technical Services and will be used by SCCA Technical Inspectors to establish technical compliance for vehicles competing in SCCA Club Racing. Technical Inspectors can also use, but is not limited to also using the following items to check compliance: Electronic Parts Catalog (EPC), Technical Information System (TIS), factory repair manual, and the FIA/ASN Homologation forms (or equivalent documentation).

The specifications within this form include all modifications that have been approved by SCCA Club Racing specifically for the vehicle model(s) and year(s) listed on this page. Parts listed on the Electronic Parts Catalog (EPC), the Technical Information System (TIS), factory repair manual, or the FIA/ASN Homologation Form may be used. However, if the specifications for any part listed on the EPC, TIS, or FIA/ASN Homologation Form, exceed the performance potential of the part(s) approved within this form, the part used shall meet the specifications listed within this form.

Refer to SCCA General Competition Rules (GCR) for rules regarding all vehicle specifications not specifically listed within the VTS. When looking for the most current rules, go to [www.scca.com](http://www.scca.com) and look under the Garage section for the latest Technical Bulletins.

Date Issued: \_\_\_\_\_ Revision #: \_\_\_\_\_ Revision Date: \_\_\_\_\_

Vehicle \_\_\_\_\_ Class \_\_\_\_\_

### 1. Vehicle Description: Prototype

A. GCR Weight: 700 kg

B. Body Type (Sedan, Coupe, Hatchback): Formula Style C. Annual # of Units: 20  
D. Wheelbase: 2679mm E. Track (F/R): 1784mm F. Curb Weight: 700kg  
G. Induction System Type (Turbo, Super, N/A): NA H. Drive Type: Front: \_\_\_\_\_ Rear: X AWD: \_\_\_\_\_  
I. Fuel Tank/Cell Capacity: 14 US Gal. J. Engine Location (frt, mid, rear): Rear

### 2. Engine Parameters:

A.1. OEM Engine Designation: Ford 52XS A.2. Displacement (cc): 5200  
A.3. Number of Cylinders: 8 A.4. Compression Ratio (max.): 12  
A.5. SAE Max Horsepower: 500 @ 7200 RPM A.6. Max Torque: 480 @ 5200 RPM  
A.7. Rev-Limit Speed: 7600 RPM A.8. Rev-Limit Method: Electronic  
1-5-4-8-6-3-  
A.9. Cylinder Firing Order: 7-2 A.10. Direction of Engine Rotation (incl. cams): Clockwise  
A.11. Restrictor Size: NA A.12. % of Restriction: NA

### B. Cylinder Block:

1. Part Number: M-6010-M52B 2. Block Material: Aluminum  
3. Cylinder Bore (max): 94mm 4. Piston Stroke (max): 93mm  
5. Block Deck Height (min): 8.925 6. Deck Clearance (min): .040"

### C. Cylinder Head:

1. Part Number: FMC-GR3Z-6049-E 2. Head Material: Aluminum  
3. Total Combustion Chamber Volume (min) (cc): 73cc 4. Cyl. Head Chamber Volume: \_\_\_\_\_  
5. Port Volume (max) (cc): 5.a. Intake: \_\_\_\_\_ 5.b. Exhaust: \_\_\_\_\_  
6. Head Flow Type: Crossflow: X Non-crossflow: \_\_\_\_\_  
7. Intake Port Dimensions (at inlet manifold face): 7.a. Height: \_\_\_\_\_ 7.b. Width: \_\_\_\_\_  
8. Exhaust Port Dimensions (at exhaust manifold face): 8.a. Height: \_\_\_\_\_ 7.b. Width: \_\_\_\_\_

### D. Valve System:

1. Number of Valves per Cylinder: 4 1.a. Intake: 38.3mm 1.b. Exhaust: 32.5mm  
2. Valve Head Diameter (max): 2.a. Intake: \_\_\_\_\_ 2.b. Exhaust: \_\_\_\_\_  
3. Valve Material: 3.a. Intake: Stainless 3.b. Exhaust: Stainless

### E. Piston and Connecting Rods:

1. Piston Type: Flat: \_\_\_\_\_ Dished: \_\_\_\_\_ Domed: X 2. Piston Mass (min): \_\_\_\_\_

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3. Connecting Rod Length (center to center): 5.933 4. Connecting Rod Material: Steel  
 5. Connecting Rod Mass: 605 grams 6. Piston, Pin, Rod, and Ring(s) Mass (min): 42.3 grams

### F. Crankshaft:

1. Crankshaft part number: M-6303-M52 2. Crankshaft Mass (min): 54 lbs

### G. Camshaft:

1. Camshaft part number: M-6550-M52 2. SCCA Camshaft Profile #: \_\_\_\_\_  
 3. Location / # of Camshafts: Head 4. Valve Actuation (direct action, etc.): Direct  
 5. Cam Follower Type (roller, solid, etc.): Roller 6. Rocker Arm Ratio: \_\_\_\_\_  
 7. Base Circle: 7.a. Intake: \_\_\_\_\_ 7.b. Exhaust: \_\_\_\_\_  
 8. Duration: 8.a. Intake: \_\_\_\_\_ 8.b. Exhaust: \_\_\_\_\_  
 9. Centerline: 9.a. Intake: \_\_\_\_\_ 9.b. Exhaust: \_\_\_\_\_  
 10. Lobe Height (max): 10.a. Intake: 14mm 10.b. Exhaust: 14mm  
 11. Lift @ Valve (max): 11.a. Intake: \_\_\_\_\_ 11.b. Exhaust: \_\_\_\_\_

### H. Flywheel:

1. Flywheel Part Number: GR3Z-6049-E 2. Flywheel Mass (min): 9 Lbs

### I. Intake System:

1. Manifold Part Number: M-9424-M50CJA 2. Manifold Material: Plastic  
Dual  
 3. Number of Injectors per Cyl.: 1 4. Throttle Body Bore Dia.: 65mm  
 5. # of Throttle Bodies: 1 6. Max. Boost Pressure (stock): \_\_\_\_\_  
 7. Compressor Inlet Dia.: \_\_\_\_\_ 8. # of Compressors: \_\_\_\_\_  
 9. Intercooler Part Number: \_\_\_\_\_ 10. Dimensions: \_\_\_\_\_  
 11. Supercharger Pulley Diameter: \_\_\_\_\_

## 3. Drivetrain:

### A. Transmission:

1. Number of Forward Speeds: 6 2. Manufacturer: Bacci  
 3. Gear Ratios: 3.a. 1<sup>st</sup>: \_\_\_\_\_ 3.b. 2<sup>nd</sup>: \_\_\_\_\_ 3.c. 3<sup>rd</sup>: \_\_\_\_\_  
 3.d. 4<sup>th</sup>: \_\_\_\_\_ 3.e. 5<sup>th</sup>: \_\_\_\_\_ 3.f. 6<sup>th</sup>: \_\_\_\_\_  
 4. Gear Shift Pattern / Engagement (synchromesh, dog-ring, etc.): Sequential

### B. Final Drive:

1. Differential Type: Open: \_\_\_\_\_ Limited Slip: \_\_\_\_\_ Torsen: X  
 2. Differential Manufacturer: Bacci 3. Axle Ratio: \_\_\_\_\_

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4. Ring Gear Outside Diameter: \_\_\_\_\_ Vehicle \_\_\_\_\_ Class \_\_\_\_\_
5. Transfer Case Manufacturer and Model #: \_\_\_\_\_
6. Center Differential Type and Manufacturer: \_\_\_\_\_

### 4. Suspension:

- A.1. Suspension Type: a. Front: Pushrod b. Rear: Pushrod
- A.2. Stock Center of Gravity (Cg): \_\_\_\_\_

### B. Springs:

1. Spring Type (coil, leaf, etc.): a. Front: Coil b. Rear: Coil
2. Overall Spring Dia. / Width: a. Front: 3" b. Rear: 3"
3. Spring Rate: a. Front: 650kg b. Rear: 950kg
4. Spring Free Length: a. Front: \_\_\_\_\_ b. Rear: \_\_\_\_\_

### C. Dampers:

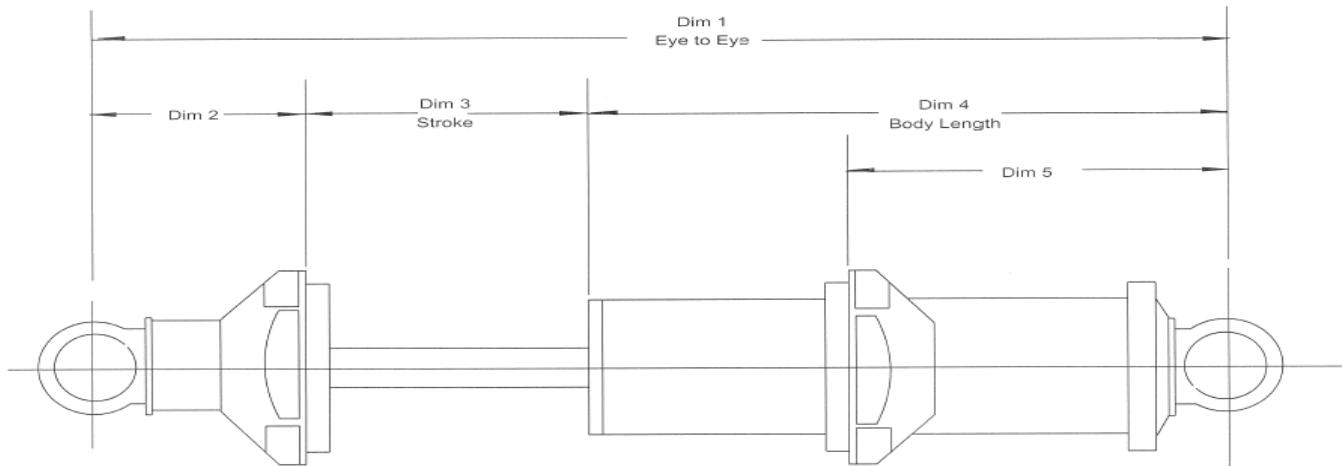
- |                                      |                      |                     |
|--------------------------------------|----------------------|---------------------|
| 1. Damper Dimension (see Figure A.): | a. Front: <u>14"</u> | b. Rear: <u>14"</u> |
| 2. Damper Dimension (see Figure A.): | a. Front: _____      | b. Rear: _____      |
| 3. Damper Dimension (see Figure A.): | a. Front: _____      | b. Rear: _____      |
| 4. Damper Dimension (see Figure A.): | a. Front: _____      | b. Rear: _____      |
| 5. Damper Dimension (see Figure A.): | a. Front: _____      | b. Rear: _____      |

### D. Anti-roll Bars:

1. Anti-roll bar Dia.: a. Front: 42mm b. Rear: 25mm
2. Anti-roll bar Design (solid, tube, etc.): a. Front: Tube b. Rear: Solid
3. Anti-roll bar wall thickness: a. Front: 2mm b. Rear: \_\_\_\_\_
4. Bushing Material: Needle Bearing 5. Adjustable Links: Yes: X No: \_\_\_\_\_

**Figure A. (Measured with spring installed)**

Date Issued: \_\_\_\_\_ Revision #: \_\_\_\_\_ Revision Date: \_\_\_\_\_



### 5. Brakes:

A. Rotor Dia. (max): 1. Front: 280mm 2. Rear: 26mm  
 B. Rotor Thickness (max): 1. Front: 280mm 2. Rear: 26mm  
 C. Rotor Type (vented, solid, etc.): 1. Front: 2 piece 2. Rear: 2 piece  
 D. Rear Drum Dia. \_\_\_\_\_ E. Rear Drum Width: \_\_\_\_\_  
 F. Caliper Type and # of Pistons: 1. Front: Alum 6 2. Rear: Alum 4

### 6. Wheels and Tires:

A. Tire Size: 1. Front: 245mm 2. Rear: 315mm  
 B. Alt. Tire Size: 1. Front: \_\_\_\_\_ 2. Rear: \_\_\_\_\_  
 C. Wheel Diameter and Material: 1. Front: 13" 2. Rear: 13"  
 D. Wheel Width: 1. Front: 10" 2. Rear: 13.7"  
 E. Alt. Wheel Sizes: 1. Front: \_\_\_\_\_ 2. Rear: \_\_\_\_\_

### 7. Body:

A. Drag Coefficient: \_\_\_\_\_ B. Windshield Slope Angle: NA  
 C. Rear Window Slope Angle: \_\_\_\_\_ D. Frontal Area: \_\_\_\_\_

### 8. Optional Equipment:

	Description	Manufacturer	Part Number
A.			
B.			

Date Issued: \_\_\_\_\_ Revision #: \_\_\_\_\_ Revision Date: \_\_\_\_\_

C.			Vehicle _____ Class _____
D.			
E.			
F.			
G.			
H.			
I.			
J.			
K.			
L.			
M.			
N.			
O.			

## 8. Optional Equipment (cont.):

	Description	Manufacturer	Part Number
P.			
Q.			
R.			
S.			
T.			
U.			
V.			
W.			
X.			
Y.			
Z.			

## 9. Miscellaneous:


Date Issued: \_\_\_\_\_ Revision #: \_\_\_\_\_ Revision Date: \_\_\_\_\_

Vehicle _____	Class _____

Date Issued: \_\_\_\_\_ Revision #: \_\_\_\_\_ Revision Date: \_\_\_\_\_