2007 WORLD CHALLENGE SEASON

VEHICLE MANUFACTURER:	Saleen
YEAR & MODEL:	(00-04) SR351

This specifications form was developed by SCCA Pro Racing and will be used by the Series Technical Administrator to establish technical compliance for vehicles competing in the SCCA PRO RACING WORLD CHALLENGE series. Technical Administrator can also use, but is not limited to also using the following items to check compliance: Electronic Parts Catalog (EPC), Technical Information System (TIS), and the FIA/ASN Homologation forms (or equivalent documentation).

The specifications within this form include all modifications that have been approved by SCCA Pro Racing specifically for the vehicle model(s) and year(s) listed on this page. The parts, specifications and assemblies used shall be those for the unmodified stock vehicle, those permitted within the Pro Racing Regulations (PRR) and/or within this VTS. If the stock parts, specifications and/or assemblies exceed the performance potential of those approved within this form, then the parts, specifications and/or assemblies used shall meet those listed within this form.

Refer to SCCA PRR for rules regarding all vehicle specifications not specifically listed within the VTS. Specifications regarding wheels and tires may be found in Article 3 and Appendix A of the PRR. Specifications regarding brakes may be found in Article 3 of the PRR. Appendix A will list what size restrictor to use if a restrictor is required to be run.

When looking for the most current rules, go to www.world-challenge.com and look under the "Competitors" section for latest Technical Bulletins, Participant Bulletins, and Appendix A.

This Vehicle Technical Specification sheet is a permissive document. The exact configuration of any modification allowed within this VTS is subject to the approval of the TECHNICAL ADMINISTRATOR.

Note: this form will have measurements in both U.S. Standard and Metric units of measure when practical. U.S. measurements will be in parenthesis.

2007 Vehicle Technical Specifications

Vehicle Saleen SR351 *Class* GT

1. GENERAL VEHICLE DESCRIPTION:

A. Body Type (Sedan, Coupe, Hatchback): Coupe B. Engine Location (front, rear, mid): Front

C. Drive Type: Front: _____ Rear: X AWD: _____ D. Wheelbase: 2573mm

E. Induction Type (Turbo, Super, N.A.): N.A. F. Appendix A Competition Weight: See Appendix A

G. Rear Weight Bias Percentage: See Appendix A

2. ENGINE:

2.A.1. OEM Engine Designation: Windsor 351

2.A.2. Displacement (Max): 5913cc (360.7ci) 2.A.3. Number of Cylinders: 8 (V-block)

2.A.4. Rev-Limit: Required: (Y / N) Yes 2.A.5. @ RPM See Appendix A 2.A.6. Method: Fuel Cut

2.A.7. Compression Ratio (Max): 12.5:1 2.A.8. Piston Stroke (Max): 89.4mm

2.A.9. Restrictors – (teams are required to be prepared to install these restrictors): % of Reduction: 20, 25, 30, 35, 40 Hole Diameter (mm): 71.6, 69.3, 66.9, 64.5, 62.0

2.A.10. Cylinder Firing Order: 1-3-7-2-6-5-4-8 2.A.11. Direction of Engine Rotation (incl. cams): clockwise

B. CYLINDER BLOCK: Part Number: **Ford SVO# M-6010-X351 or X352**

2.B.1. Cylinder Block Material: Aluminum

2.B.2. Cylinder Bore (Max): 102.6mm *Note: Includes any allowed overbore, usually 1mm over stock.

C. CYLINDER HEAD: Part Number: **TFS Twisted Wedge 205 Renegade**

2.C.1. Cylinder Head Material: Aluminum

D. VALVE SYSTEM:

2.D.1. Number of Valves per Cylinder: 2.D.1.a. Intake: 1 2.D.1.b. Exhaust: 1

2.D.2. Valve Head Diameter (Max): 2.D.2.a. Intake: 51.8mm 2.D.2.b. Exhaust: 40.6mm

E. INTAKE PORT DIMENSIONS:

2.E.1. At Inlet Manifold Face (Stock): 2.E.1.a. Height: 57.15 2.E.1.b. Width: 33.7mm

2.E.2. Intake Port Work Allowed (Yes or No): No 2.E.2.a. Depth from Face: n/a

F. EXHAUST PORT DIMENSIONS:

2.F.1. At Exhaust Manifold Face (Stock): 2.F.1.a. Height: 39.4mm 2.F.1.b. Width: 34.9mm

2.F.2. Exhaust Port Work Allowed (Yes or No): No 2.F.2.a. Depth from Face: n/a

G. PISTON & CONNECTING ROD:

2.G.1. Connecting Rod Length (Axis Centerline to Axis Centerline) Stock: 151.4mm Approved: 151.4-157.5mm

2.G.2. Reciprocating Assembly(rods,caps,bolts,piston,rings,pin,clips, bearings) Stock: TBD Min: 1245g

2.G.3. Aftermarket Rods Allowed (Yes / No): Yes Aftermarket Pistons Allowed (Yes / No): Yes

Date Issued: 01.07.2007 **Revision #:** n/a **Revision Date:** n/a

H. CAMSHAFT: Part Number: **HUFF-WC** OR SCCA Profile#:

2.H.1. Rocker Arm Ratio: 1.6:1 2.H.2. Valve Actuation (direct action, etc.): Pushrod

2.H.3. Type of Cam Follower (roller, solid, etc.): Solid Roller Lifter 2.H.4.Max Lift @ Cam Lobe: 9.35mm

I. CRANKSHAFT: Part Number: Any steel crank w/ stock throw dimensions meeting min. weight.

2.I.1. Mass (Stock): TBD 2.I.2. Mass (Min): 45.0 lbs (before balancing)

J. FLYWHEEL: 2.J.1. Stock Ring Gear Diameter: TBD

K. FORCED INDUCTION INTAKE SYSTEM: **Not Applicable**

L. INTAKE MANIFOLD: Part Number: Reichard (p/n: TBD)

2.L.1. Port at Cylinder Head Face (Stock): 2. L.1.a. Height: TBD 2.L.1.b. Width: TBD

2.L.2.a Allow Port Match to Head (Yes/No): Yes 2.L.2.b Depth: Entire Runner (see note)

2.L.3.a Throttle Body Bore Diameter: 80.0mm 2.L.3.b Part Number: **Accu Fab #F80**

2.L.4. # of Throttle Bodies: 1 2.L.5. # of Butterflies per Throttle Body: 1

2.L.6. Intake Manifold Material: Aluminum 2.L.7. Manifold Pieces: 3

2.L.8.a Intermediate Port Matching Allowed (Yes / No): Yes 2.L.8.b Depth from Face: 76.2mm

M. REQUIRE ENGINE SEALS LOCATION:

2.M.1. Valve Cover Seal #1:

2.M.2. Valve Cover Seal #2:

2.M.4. Oil Pan Seal #4:

N. ENGINE MISCELLANEOUS:

Total Engine Airflow (TFS) – 205.782.6397

Reichard – 410.610.5567

Huffaker Engineering – 707.935.0533

Tilton 8.625” flywheel (p/n: 51-653) may be used.

2.L.2.b note: Intake runner is port matched and blended apx. 2.5” in , and then lightly deburred throughout.

3. DRIVETRAIN:

A. TRANSMISSION:

3.A.1. Number of Forward Speeds: 5 3.A.2. Manufacturer: Jerico

3.A.3. Gear Ratios: 3.A.3.a. 1st: 2.50 3.A.3.b. 2nd: 1.77 3.A.3.c. 3rd: 1.43

3.A.3.d. 4th: 1.17 3.A.3.e. 5th: 1.00 3.A.3.f. 6th: n/a

3.A.4. Gear Shift Pattern / Engagement (synchromesh, dog-ring, etc.): H-pattern / Dog ring

C. FINAL DRIVE: Axle Ratio: 3.50 or 3.89

D. DRIVETRAIN MISCELLANEOUS:

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4. SUSPENSION:

4.A. Suspension Type (Double A-arm, etc.): 4.A.1. Front: Double A-arm 4.A.2. Rear: 3-link

4.B. SUSPENSION MISCELLANEOUS:

5. CHASSIS:

5.A. See Technical Department for information:

5.B. CHASSIS MISCELLANEOUS:

6. BODY:

6.A.1 Stock Coefficient of Drag (Cd): TBD 6.A.2. Total Frontal Area: TBD

6.B. Body Overhang (Measured from Axle Centerline): 6.B.1. Front: 1105-1130mm 6.B.2. Rear: 1092-1118mm

6.C. Stock Body Materials: Non-metallic composite

6.D. Maximum Body Width: TBD

6.E. Permitted Rear Wing Design (GT class Only): **ACP-6700**

6.D. BODY MISCELLANEOUS:

Composite Saleen SR351 wide body kit. No changes may be made to front fascia to improve downforce (ie. Vertical fences may not be added to sides of fascia).

CAMSHAFT DATA FOR CAMSHAFT MANUFACTURERS

VEHICLE: Saleen SR-351 (5.8-liter)

	LIFT	DUR.	OPEN	CLOSE	AREA
Lobe(s) – Intake	0.010	315.7	59.1 BTDC	76.6 ABDC	33.76
	0.020	297.4	48.8 BTDC	68.6 ABDC	33.63
	0.030	284.6	41.8 BTDC	62.7 ABDC	33.47
	0.040	274.2	36.4 BTDC	57.8 ABDC	33.29
	0.050	265.3	31.7 BTDC	53.6 ABDC	33.09
	0.060	257.4	27.6 BTDC	49.8 ABDC	32.87
	0.070	250.2	23.9 BTDC	46.4 ABDC	32.64
	0.080	243.6	20.4 BTDC	43.2 ABDC	32.39
	0.090	237.4	17.2 BTDC	40.2 ABDC	32.13
	0.100	231.6	14.2 BTDC	37.4 ABDC	31.85
	0.150	204.8	0.7 BTDC	24.1 ABDC	30.18
	0.200	178.4	12.3 ATDC	10.8 ABDC	27.87
	0.250	149.3	26.5 ATDC	4.2 BBDC	24.59
	0.300	113.7	43.9 ATDC	22.4 BBDC	19.67
	0.350	59.9	70.3 ATDC	49.8 BBDC	10.86
	0.36882	**--- PEAK CAM LIFT ---**			

	LIFT	DUR.	OPEN	CLOSE	AREA
Lobe(s) – Exhaust	0.010	318.6	83.7 BBDC	54.9 ATDC	33.89
	0.020	300.4	73.0 BBDC	47.4 ATDC	33.75
	0.030	287.6	65.9 BBDC	41.8 ATDC	33.60
	0.040	277.4	60.2 BBDC	37.1 ATDC	33.42
	0.050	268.4	55.4 BBDC	33.0 ATDC	33.22
	0.060	260.6	51.2 BBDC	29.4 ATDC	33.00
	0.070	253.4	47.4 BBDC	26.0 ATDC	32.77
	0.080	246.8	43.9 BBDC	23.0 ATDC	32.52
	0.090	240.6	40.6 BBDC	20.0 ATDC	32.26
	0.100	234.7	37.5 BBDC	17.2 ATDC	31.98
	0.150	207.6	23.7 BBDC	4.0 ATDC	30.29
	0.200	180.5	10.1 BBDC	9.6 BTDC	27.91
	0.250	150.0	5.0 ABDC	25.0 BTDC	24.47
	0.300	112.3	23.8 ABDC	43.8 BTDC	19.27
	0.350	53.6	53.3 ABDC	73.1 BTDC	9.64
	0.36461	**--- PEAK CAM LIFT ---**			

World Challenge Permitted Cam Tolerances

The camshafts used for this car must meet the specifications listed above within the following permitted tolerances;

Duration at the seat (0.0" - 0.02"): +/- 6.5 degrees

Duration on flank (0.1" lift – 0.1" before max. lift): +/- 4.0 degrees

Duration over nose: +/- 6.0 degrees

Lift: +/- .005" (0.127mm)

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