Serpent SRXE

Setup: Mugen Challenge 2024 · Ken Grace (Team Associated) · Aug 27, 2024

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EVENT

Event	Mugen Challenge 2024
Class	E-Buggy

TRACK

Track	LCRC Raceway
Type	Outdoor hard-packed
Grip / moisture	Medium / Dry/Dusty
Surface / layout	Medium/Bumpy / Open/Medium

FRONT SUSPENSION

Anti-roll bar	2.3mm
Arm inserts - bottom	None
Arm inserts - top	None
Camber	-2 degrees
CAMBER LINK	
Inner stud location	2 - Inside middle
Outer stud location	A - Inside
Hub carriers	17.5 KPI
Kick-up: FF mount inserts	10 degrees - middle
Ride height	25 mm
SHOCKS	
Arm mounting hole	A - Inside
Tower mounting hole	3 - Middle-out
Steering arms	Type 2
Steering block	KPI
Steering link: outer stud spacers	2 mm
Steering stop	0.5 mm
Toe	+1 degrees
Tower	Aluminum
Track: wheel hexes	+1mm light

NOTES 108mm shock length

TIRES

	FRONT	REAR
Tire brand / type	JConcepts Reflex	JConcepts Reflex
Tire compound	Blue (Soft)	Blue (Soft)
Tire insert	Closed-cell	Closed-cell
Wheel brand / type	DE Racing SpeedLine Plus	DE Racing SpeedLine Plus

REAR SUSPENSION

Anti-roll bar	2.5mm
Anti-squat: RF block inserts	2.0 degrees - middle
Arm inserts - bottom	None
Arm inserts - top	None
Axle height: hub inserts	Low (L-H up)
Camber	-2 degrees
CAMBER LINK	
Inner stud location	3 - Inside mid-top
Outer stud location	B - Middle-in
Hubs	Kit
Ride height	27 mm
SHOCKS	
Arm mounting hole	B - Middle
Tower mounting hole	4 - Middle-out
Toe in / RR (D) block inserts	3.0 degrees
Tower	Aluminum
Track: wheel hexes	+0mm light
Wheelbase: hub spacers	+2.5 mm

NOTES 127 shock length

BODY & CHASSIS

Battery layout	Stick / 4S Brick
Body	SRXE
Chassis	Aluminum light hard coated
Rear wing	Serpent Medium
Rear wing angle	4 degrees
Rear wing gurney strip	No
Rear wing mount	SRX8 v2
Screws & turnbuckles	Lundsford Titanium Turnbuckles

NOTES Alu skid plate

SHOCKS

	FRONT	REAR
Oil weight	600 cst	550 cst
Pistons	VRP 20-Hole	VRP 20-Hole
Shafts	Front	Rear
Shock length	108 mm	127 mm
Shock type	Emulsion	Emulsion
Springs	5.3 lb Purple	3.6 lb Blue
Shock oil brand	PT RC	

DIFFERENTIALS

	FRONT	REAR
Diff fluid	7,000 cst	3,000 cst
Diff mass	40.35 g	40.35 g
Diff ring gear	44 teeth	44 teeth
Center diff fluid	7,000 cst	
Center diff mass	41.0 g	
Diff fluid brand	PT RC	

NOTES HTD diffs

DRIVETRAIN

Driveshafts - front	98mm
Driveshafts - rear	98mm
Pinion	16 teeth
Spur	44 teeth

NOTES Aluminum axles and hexes

ELECTRONICS

Battery brand	Factory Xtreme
Battery C rating	130
Battery capacity	6400 mAh
Battery model	4S LiHV
ESC brand	Hobbywing
ESC model	XR8 Plus
ESC settings	No drag brake, 6.0 BEC
Motor brand	Hobbywing
Motor Kv constant	1900 Kv
Motor model	Xerun 4268
Radio brand	Sanwa/Airtronics
Radio EPA steering	Max %
Radio EPA throttle	100/80 %
Radio model	M17
Receiver battery	N/A
Receiver brand	Sanwa/Airtronics
Receiver model	RX-493i
Steering servo brand	Sanwa/Airtronics
Steering servo model	PGS-XR II
Transponder ID	5468214

NOTES 20A