Schumacher Cougar LD2/LD2 SS

Setup: Cobra Sword Rnd1 8-10-23 · Craig Harris (Schumacher) · Oct 11, 2023

so dialed
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EVENT	
Event	Sword Round 1

TRACK	
Track	Cobra HOS
Type	Indoor carpet
Grip / moisture	Medium / Dry
Surface / layout	Smooth / Medium
Air temp	20°C (68°F)
Track temp	10°C (50°F)

RESULTS	
Race type	Practice
Finish	1st

FRONT SUSPENSION

Ackermann: inner steering link spacers	1 mm
Anti-roll bar	None
Arms	Carbon fiber
Axle height: steering block spacers	Medium
Bumpsteer: outer steering link spacers	4 mm
Camber	-2 degrees
Center track rod stud location	2
Pivot block	Brass
Pivot block arm mount location	2 - Outside
Pivot block height	High
Ride height	14.5 mm
ROLL CENTER	
Inner camber link location	3 - Outside
Inner camber link spacers	1 mm
Outer camber link location	B - Outside
SHOCKS	
Arm mounting hole	B - Outside
Tower mounting hole	4 - Mid-out
Steering block	Kit
Toe	0 degrees
Tower	S2
Track: wheel hexes	-0.75mm
WHEELBASE	
Chassis insert	0 mm
Hub spacers	+4.5mm
Yokes	5 degree Aluminum

NOTES Aluminium Radius Arms, Aluminium Servo Horn
Aluminium camber plate

REAR SUSPENSION

Anti-roll bar	1.2mm
Anti-squat: strap spacer	2 degrees
Arm length	Long
Arms	Carbon fiber
Axle height: hub inserts	High pin
Camber	-1 degrees
Differential height	High mm
Hub	L1R
Ride height	14.5 mm
ROLL CENTER	
Inner camber link location	Wide rear link plate
Inner camber link spacers	5 mm
Outer camber link location	L1R hub , link in middle, plate on outer hole.
Outer camber link spacers	2
Pin height	High
Shock location	Front of arm
SHOCKS	
Arm mounting hole	B - Middle
Tower mounting hole	2 - Mid-in
Toe: suspension mount inserts	0.5 degrees
Tower	S2
Track: wheel hexes	1.50mm
Wheelbase: hub spacers	Medium

NOTES Wide Rear link plate
3mm spacer under shock top ball joint.
L1R rear hub (B high -

TIRES

	FRONT	REAR
Tire brand / type	Schumacher Fusion Slim	Schumacher U6838 Cactus
Tire compound	Yellow	Yellow
Tire insert	Schumacher 2wd hard	Schumacher medium
Wheel brand / type	Schumacher	Schumacher
Tire prep - F/R	None	

NOTES Cactus cut inner and outer rows.
Front tyres glued normally

SHOCKS

	FRONT	REAR
Caps	Aeration	Aeration
Limiters - int/ext	0 / 1 mm	0 / 2 mm
Oil weight	575cst	425cst
Pistons	3 x 1.5mm - White	3 x 1.6mm - Black
Springs	4.3lb Orange	Hi-response 2.6lb Black
Stroke	22 mm	28 mm
Shock oil brand	CORE	

NOTES Shock o ring external spacer on rear shock.
1mm o ring external spacer front.
V1 front springs with pigtail bent straight mounted on AE spring cup.

DRIVETRAIN

Clutch pads	2
Differential fluid	12,000 cst
Differential fluid brand	Core RC
Differential type	2-gear
Drive ratio - internal	2.53
Drive type	Slipper
Driveshafts	Universal
Pinion	23 teeth
Spur	80 teeth

BODY & CHASSIS

	FRONT	REAR
Wing	Aerox	JC 7”
Body	Penguin Slayer	
FLEX		
Chassis	Aluminum	
Chassis sidepods	Stiff	
Cross brace	None	
Motor plate	Aluminum	
Rear wing angle	Kit	
Rear wing gurney height	3 mm	
Rear wing height	Kit	
WEIGHT		
Battery position	7	
Radio tray position	2 - Center	
Weights	30g radio tray	

ELECTRONICS

Battery brand	**Intellect Pioneering**
Battery capacity	**4400 mAh**
Battery model	**IPLP2S4400PT2**
ESC brand	**Hobbywing**
ESC model	**G2**
Motor brand	**LRP**
Motor model	**X22**
Motor timing	**22 degrees**
Motor wind	**7 turns**
Radio brand	**Sanwa/Airtronics**
Radio EPA steering	**95 %**
Radio EPA throttle	**100 %**
Radio model	**Exzes ZZ**
Receiver brand	**Sanwa/Airtronics**
Receiver model	**RX482**
Servo brand	**AGFRC**

NOTES 12.3mm rotor
17 drag brake
8 boost
10 turbo
12k freq
15 th rate

ESC SETTINGS

BOOST

RPM End	**22500 rpm**
RPM Start	**9000 rpm**
Timing	**4 degrees**

BRAKE

Curve	**Linear**
Drag	**19 %**
Frequency	**1 kHz**
Strength	**75**

THROTTLE

Frequency	**12 kHz**
Initial strength	**6 %**

TURBO

Activation method	**Delay**
Delay	**0.35 seconds**
Ramp	**8**
Timing	**16 degrees**

NOTES Throttle Rate 4