Mugen MSB1

Setup: MHORC NOV. · Chris Payne · Nov 6, 2024

so dialed
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EVENT	
Event	Matt Chambers memorial
Class	21.5

TRACK	
Track	MHORC
Type	Indoor clay
Grip / moisture	High / Wet/Dry
Surface / layout	Medium/Smooth / Tight
Air temp	70°F (21°C)
Track temp	65°F (18°C)

RESULTS	
Race type	Main
Race number	A
Finish	3rd

FRONT SUSPENSION

ACKERMANN	
Inner steering link shims	0 mm
Outer steering link location	+0.5 mm
Anti-roll bar	0 mm
Axle height: steering block shims	1 mm
Bulkhead shims	2mm
Bump steer: outer steering link shims	1 mm
Camber	-1.5 degrees
CAMBER LINK	
Inner location	In
Inner shims	1 mm
Outer location	Out
Outer shims	2 mm
Ride height	18 mm
SHOCKS	
Arm mounts	Out
Tower mounts	Mid
Toe	-0.5 degrees
Track: wheel hex shims	0 mm
Trail	3 mm
Wheel hexes	Titanium

TIRES

	FRONT	REAR
Tire additive	TDK EDGE	TDK EDGE
Tire brand / type	Smoothie 2	Smoothie 2
Tire compound	Silver	Silver
Tire insert	Grey	Grey
Wheel brand / type	Mugen	Mugen

NOTES Clean with Sprayaway, Apply TDK, Apply again 3 minutes before run. Throw on track wet

ESC SETTINGS

BRAKE	
Drag	15 %
Frequency	4k kHz
Throttle: Frequency	4k kHz

REAR SUSPENSION

Anti-roll bar	0 mm
Axle height: hub inserts	0 mm
C mount inserts	0.5 in
Camber	-1.5 degrees
CAMBER LINK	
Inner location	Front
Inner shims	2 mm
Outer mount shims	2 mm
Outer shims	2 mm
D mount inserts	1 up
Differential height	1 mm
Ride height	18 mm
SHOCKS	
Arm mounts	Out
Tower mounts	In
Track: wheel hexes	Kit mm
WHEELBASE	
Arm position	Short
Hub position	Long

NOTES Ball diff tight~340

BODY & CHASSIS

	FRONT	REAR
Wing	None	7 in
Wing height	Low	Low

Battery position	Mid-rear
Body	Mugen LW
Chassis	Standard
Chassis brace bushings	Rubber
ESC plate	Carbon
Rear wing angle	6 degrees
Screws & turnbuckles	Full Titanium
Weight: total	1519 g
Weights	Brass front bulkhead shim
WEIGHTS	
Battery	None
Servo	None

NOTES Ceramic bearings, titanium turnbuckles, upper and lower screws R1 Ti axles. Aluminum steering rack, bellcranks, servo mount.

SHOCKS

	FRONT	REAR
Cup offset	Mid	Low
Eyelet length	0 mm	0 mm
Limiters - ext	0 mm	0 mm
Limiters - int	0 mm	0 mm
Oil weight	350 cst	300 cst
Pistons	2.5MM 1.9x2 1.2x1	2.5mm 2.0x2 1.2x1
Springs	2 dot	1up Gold
Stroke	23.8 mm	29.5 mm

Shock oil brand: Team Associated

DRIVETRAIN

Clutch type	Slipper
Differential fluid	1up Pink cst
Differential fluid brand	Mugen
Differential friction o-rings	2
Differential mass	Carbide balls g
Differential type	Ball
Drive ratio - internal	2.60
Driveshaft pin location	In
Driveshafts	CVD
Pinion	30 teeth
Spur	72 teeth

NOTES Ball diff- 340 SkyRc

ELECTRONICS

Battery brand	R1
Battery capacity	6400 mAh
Battery model	6400
ESC brand	R1 MOD Digital 3
Motor brand	R1
Motor timing	38 degrees
Motor wind	17.5 turns
Radio EPA brake	89 %

NOTES 30a