Mugen MSB1

Setup: MHORC July 2024 High grip (Dusty) · Chris Payne · Jul 28, 2024

so dialed
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EVENT

Event	July 2024 Layout High Grip (Dusty)
Class	17.5

TRACK

Track	MHORC
Type	Indoor clay
Grip / moisture	High / Dry/Dusty
Surface / layout	Medium / Tight
Air temp	75°F (24°C)
Track temp	75°F (24°C)

RESULTS

Race type	Qualifier
Best lap	12.2 s

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	Mid
Inner shims	2.5 mm
Outer location	In
Outer shims	2 mm
Ride height	18.5 mm
SHOCKS	
Arm mounts	Out
Tower mounts	Mid
Toe	-1 degrees
Track: wheel hex shims	0 mm
Trail	4 mm
Wheel hexes	Titanium

TIRES

	FRONT	REAR
Tire additive	Spray sway	Spray sway
Tire brand / type	Smoothie 2	Smoothie 2
Tire compound	Aqua	Aqua
Tire insert	RM2	RM2
Wheel brand / type	Mugen	Mugen

NOTES Clean with Sprayaway
Sauce with SK red or gold if more grip is needed

ESC SETTINGS

BRAKE	
Drag	20 %
Frequency	4k kHz
Throttle: Frequency	4k kHz

REAR SUSPENSION

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

NOTES Camber link mount flipped
Ball diff medium tight

BODY & CHASSIS

	FRONT	REAR
Wing	None	6.5 in
Wing height	Low	Low

Battery position	Mid-rear
Body	JConcepts F2 LW
Chassis	Standard
Chassis brace bushings	Rubber
ESC plate	Carbon
Rear wing angle	6 degrees
Screws & turnbuckles	Full Titanium
Weight: total	1551 g
WEIGHTS	
Battery	None
Servo	None

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

SHOCKS

	FRONT	REAR
Cup offset	Mid	Low
Eyelet length	0 mm	0 mm
Limiters - ext	2 mm	0 mm
Limiters - int	0 mm	0 mm
Oil weight	350 cst	300 cst
Pistons	2.5MM 1.8x2	2.5mm 1.9x2
Springs	1 dot	1 dot
Stroke	24 mm	29 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	Ceramic Balls g
Differential type	Ball
Drive ratio - internal	2.60
Driveshaft pin location	In
Driveshafts	CVD
Pinion	29 teeth
Spur	72 teeth

NOTES Ball diff -tight

ELECTRONICS

Battery brand	R1
Battery capacity	6400 mAh
Battery model	6400
ESC brand	R1 MOD Digital 3
Motor brand	R1
Motor timing	48 degrees
Motor wind	17.5 turns
Radio EPA brake	72 %

NOTES 30a