Mugen MSB1

Setup: MHORC June 2024 High Grip! · Chris Payne · Jun 26, 2024

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EVENT

Event	June 26th 2024 Layout High Grip
Class	17.5

TRACK

Track	MHORC
Type	Indoor clay
Grip / moisture	High / Dry
Surface / layout	Medium / Tight
Air temp	80°F (27°C)
Track temp	80°F (27°C)

RESULTS

Race type	Main
Finish	1st

FRONT SUSPENSION

ACKERMANN	
Inner steering link shims	0 mm
Outer steering link location	+1 mm
Anti-roll bar	0 mm
Axle height: steering block shims	1 mm
Bulkhead shims	2mm
Bump steer: outer steering link shims	0.5 mm
Camber	-1.5 degrees
CAMBER LINK	
Inner location	Mid
Inner shims	2.5 mm
Outer location	Out
Outer shims	2 mm
Ride height	19 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	SK Gold	SK Gold
Tire brand / type	Raw speed slicks	Raw speed slicks
Tire compound	Soft	Soft
Tire insert	Raw speed	Raw speed
Wheel brand / type	Mugen	Mugen

NOTES Clean with Brake Cleaner
Sauce 15 min prior

ESC SETTINGS

BRAKE	
Drag	15 %
Frequency	2k kHz
Throttle: Frequency	10k kHz

REAR SUSPENSION

Anti-roll bar	0 mm
Axle height: hub inserts	+2 mm
C mount inserts	0.5 down
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
Differential height	2 mm
Ride height	19 mm
SHOCKS	
Arm mounts	Out
Tower mounts	Mid
Track: wheel hexes	Kit mm
WHEELBASE	
Arm position	Short
Hub position	Short

NOTES Camber link mount flipped
Ball diff medium tight

BODY & CHASSIS

	FRONT	REAR
Wing	None	7"
Wing height	Low	Low

Battery position	Mid-front
Body	Rawspeed Darkstar
Chassis	Standard
Chassis brace bushings	Rubber
ESC plate	Carbon
Rear wing angle	0 degrees
Screws & turnbuckles	Full Titanium
Weight: total	1580 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	27.5 wt	25 wt
Pistons	VRP GC 1.7	VRP GC 1.8
Springs	AE 13MM GREY	AE 13MM GREY
Stroke	23 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
Motor brand	R1
Motor timing	46 degrees
Motor wind	17.5 turns
Radio EPA brake	69 %

NOTES 30a