Mugen MBX8

Setup: SCRC MBX8WE · Charles Dekeado (Magen Seiki) · Dec 7, 2022

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EVENT

Event	MDA 2020 June 10-12

TRACK

Track	SCRC/Sun City RC Raceway, EL Paso TX
Type	Outdoor loose/loamy
Grip / moisture	Medium / Wet
Surface / layout	Medium / Medium

FRONT SUSPENSION

Anti-roll bar	2.1mm
Droop (shock length)	105 mm
FF (A) mount inserts	Middle
FR (B) mount inserts	Middle
Hub carrier	1.5mm trail
LOWER ARM	
Pillow ball spacers	1.0 mm
Pillow balls	Kit
Stiffeners	Plastic
Ride height	25 mm
SHOCKS	
Arm mounting hole	B - Outside
Tower mounting hole	1 - Inside
Steering block arm	-3mm
Steering link: inner stud location	3
Steering plate - upper	Plastic
Toe	27mm link length degrees
Tower	Aluminum
Track: wheel hexes	0mm
Upper arm spacers (caster)	Front 2mm / rear 2mm
UPPER ARM	
Mount inserts - front	Middle
Mount inserts - rear	Middle
Pillow ball spacers	1.0 mm
Pillow balls	Kit
Wheelbase: lower arm spacers	0 mm

NOTES Graphite Coated pillow balls
Swing test with shocks removed after every day of running.

TIRES

	FRONT	REAR
Tire brand / type	AKA Impact	AKA Impact
Tire compound	SLW	SLW
Tire insert	Closed-cell	Closed-cell
Tire prep	3 small holes on inside tire sidewall/center rib completely cut flush out of red foams	3 holes on inside sidewall/center rib completely cut flush out of red foam
Wheel brand / type	AKA White	AKA White

NOTES SLW impacts weren't the fastest, but most consistent for me. The weekend the track was ran more wet, saw a lot of SLW/MLW grid ll's some DD's and P-ones as well.

REAR SUSPENSION

Anti-roll bar	2.2mm
Arm stiffeners	Plastic
Axle height: hub pin hole	High (low pin)
Camber	19.5mm link length degrees
CAMBER LINK	
Inner stud location	2 - Inside middle
Outer stud location	B - Middle
Droop (shock length)	118.5 mm
Hubs	Plastic
RF (C) mount inserts	Middle
RF (C) mounts	0mm
Ride height	26 mm
RR (D) mount inserts	Bottom middle
SHOCKS	
Arm mounting hole	B - Outside
Arm pivot ball orientation	Always outside
Tower mounting hole	5 - Outside
Toe	-2.5 degrees
Tower	Aluminum
Track: wheel hexes	+2mm
WHEELBASE	
Arm spacers	0 mm
Hub spacers	Front 2.5mm / rear 2.5mm

ENGINE

Engine brand	OS Speed
Engine model	Flashpoint FP02
Fuel	Flashpoint 30%
Glow plug	P3 OS Plug
Pipe / header	Flashpoint combo

BODY & CHASSIS

Body	Kit
Chassis brace - front	Short
Chassis brace - rear	Kit
Engine mount	M2C Quick change
Rear wing	White Kit
Rear wing height	3
Rear wing mount	+15mm
Rear wing position	Back
Weights	Rear mugen weight 20g

SHOCKS

	FRONT	REAR
Oil weight	600 cst	500 cst
Pistons	MIP Bypass1 6-hole (3x1.35/3x1.45)	MIP Bypass1 6-hole (3x1.35/4x1.50
Rebound	0 %	0 %
Springs	70mm 1.6mm x 9.25T	86mm 1.6mm x 10.75T
Stroke	34 mm	42 mm

Shock oil brand	Flash Point

NOTES Mugen Emulsion shock cap

DIFFERENTIALS

	FRONT	REAR
Diff fluid	8,000 cst	4,000 cst
Diff ring/pinion	44/13 teeth	42/12 teeth

Center diff fluid	4,000 cst
Center diff type	Kit

NOTES No shims used inside diff behind sun gears.
42/12(rear only)

DRIVETRAIN

Brake bias	60/40ish all by feel. Like to brake with the front and feel like Ebuggy
Center shafts	Low friction CVD (#E2261, #E2262)
Clutch shoes & springs	Buku 3 shoe adjustable
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	13 vented mugen bell teeth
Spur	47 teeth

NOTES Boca green seals throughout for the dusty conditions.

ELECTRONICS

Radio brand	**Sanwa/Airtronics**
Radio EPA steering	**113% L and R %**
Radio EPA throttle	**71% (6.98mm) %**
Radio model	**M12s**
Receiver battery	**FP 2500 RX pack**
Receiver brand	**Sanwa/Airtronics**
Receiver model	**RX-481**
Steering servo brand	**Xpert**
Steering servo model	**Xpert A1 AS-8601 HV Standard size**
Throttle servo brand	**Xpert**
Throttle servo model	**Xpert SI-4531 (Brushless High Torque) 25t Stock plastic horn 5 rubber orings on each brake linkage**

NOTES Steering curve exponential +30% L and R
Steering speed (Rate if change) 50%
Steering rate 100%
Brake 51%