Mugen MBX8 ECO

Setup: Modified setup/med-low grip · Charles Dekeado (Magen Seiki) · Jun 5, 2022

so dialed
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EVENT

Event	Border wars Race 5/Current setup/Test Day

TRACK

Track	Raceparty/Current setup
Type	Outdoor hard-packed
Grip / moisture	Low / Dusty
Surface / layout	Bumpy / Medium

FRONT SUSPENSION

Anti-roll bar	2.1mm
Camber	Kit degrees
Droop (shock length)	105 mm
FF (A) mount inserts	Middle
FR (B) mount inserts	Middle
Hub carrier	0 trail
LOWER ARM	
Pillow ball spacers	1.0 mm
Pillow balls	Kit
Stiffeners	Plastic
Ride height	25 mm
SHOCKS	
Arm mounting hole	B - Outside
Arm pivot ball orientation	Front
Tower mounting hole	1 - Inside
Steering block arm	-3mm
Steering link: inner stud location	4
Steering plate - upper	Plastic
Toe	29mm 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

REAR SUSPENSION

Anti-roll bar	2.2mm
Arm stiffeners	Plastic
Axle height: hub pin hole	High (low pin)
Camber	-3 degrees
CAMBER LINK	
Inner stud location	3 - Inside top
Outer stud location	B - Middle
Droop (shock length)	118.5 mm
Hubs	Aluminum
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	Front
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

BODY & CHASSIS

Body	Kit
Chassis brace - front	Short
Chassis brace - rear	Kit
Rear wing	Kit
Rear wing height	3
Rear wing mount	+15mm
Rear wing position	Front
Weights	20g Rear

NOTES I Always run the white kit molded wing, typically in the forward position.

SHOCKS

	FRONT	REAR
Oil weight	600 cst	500 cst
Pistons	6 Hole Bypass1(3x1.35 3x1.45 clear valve)	6 Hole Bypass1(3x1.35 3x1.50 clear valve)
Rebound	0 %	0 %
Springs	70mm 1.6mm x 9.0T	86mm 1.6mm x 10.5T
Stroke	34 mm	41 mm

Shock oil brand	Flash Point

NOTES Mugen Emulsion caps

DIFFERENTIALS

	FRONT	REAR
Diff fluid	8,000 cst	3,000 cst
Diff ring/pinion	44/13 teeth	42/12 teeth

Center diff fluid	3,000 cst
Center diff type	Kit
Diff fluid brand	Flashpoint

NOTES Underdrive rear only, feels to me as the front pulls the car more, further calming the rear end on power.

DRIVETRAIN

Center shafts	Low friction CVD (#E2261, #E2262)
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	15 teeth
Spur	46 teeth

TIRES

	FRONT	REAR
Tire brand / type	AKA Impact	AKA/Grid II
Tire compound	SLW	SLW
Tire insert	Red Closed Cell(de-ribbed)	Red Closed Cell(de-ribbed)
Wheel brand / type	AKA/EVO/White	AKA/EVO/White

NOTES Full de-rib of insert to aid in quick break in and better overall feel

ELECTRONICS

Battery brand	**Gens Ace**
Battery C rating	**130**
Battery capacity	**6000 mAh**
Battery model	**Redline**
ESC brand	**Maclan**
ESC model	**MMax 8R**
ESC settings	**Custom/EPA adjust per track and conditions**
Motor brand	**Maclan**
Motor Kv constant	**1900 Kv**
Motor model	**MR8.3**
Motor timing	**None degrees**
Radio brand	**Sanwa/Airtronics**
Radio EPA steering	**123/L and R %**
Radio EPA throttle	**115(150 max) %**
Radio model	**M12**
Receiver brand	**Sanwa/Airtronics**
Receiver model	**RX-481**
Steering servo brand	**Xpert**
Steering servo model	**GS-6401 R2/BLS 25f FP Aluminum Horn**