Mugen MBX8R ECO

Setup: My Base Setup · Ryan Joyner (Mugen Seiki) · Aug 8, 2022

so dialed
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EVENT

Event	Any

TRACK

Track	Any
Type	Outdoor hard-packed
Grip / moisture	Medium / Dry
Surface / layout	Medium / Medium

FRONT SUSPENSION

Ackermann: inner steering stud location	3
Anti-roll bar	2.2mm
Bump steer: outer steering link shims	0 mm
Camber	-2 degrees
Caster: upper arm shims - F/R	2 / 2 mm
Droop (shock length)	Droop, +4 mm
FF mount inserts	Bottom
FR mount inserts	Top
Lower arm stiffeners	None
Lower arms	Lightweight
Ride height	26 mm

SHOCKS

Arm mount ball	Forward
Arm mounting hole	B - Outside
Tower mounting hole	3
Steering block arm	-3mm
Toe	-1 degrees
Tower	Aluminum

TRACK

Lower pillow ball shims	1.0 mm
Upper pillow ball shims	1.0 mm
Wheel hexes	0mm
Trail: uprights	0 trail

UPPER ARM

Mount inserts - front	Up
Mount inserts - rear	Center
Wheelbase: lower arm shims - F/R	0 / 1 mm

REAR SUSPENSION

Anti-roll bar	2.4
Arm stiffeners	None
Arms	Lightweight
Axle height: hub pin hole	High (low pin)
Camber	-2 degrees

CAMBER LINK

Inner stud location	6 - Outside top
Outer ball shims - F/R	3 mm
Outer plate orientation	Notch outward
Outer plates	Plastic hub
Outer stud location	C - Outside
Droop (shock length)	Droop, -6 mm
Hubs	Mbx8
RF mount inserts	Center
Ride height	28 mm
RR mount inserts	Down and out

SHOCKS

Arm mount ball	Forward
Arm mounting hole	B - Outside
Tower mounting hole	3
Toe	2.5 degrees
Tower	Aluminum
Track: wheel hexes	0mm

WHEELBASE

Arm shims - F/R	0 / 1 mm
Hub shims - F/R	2.5 / 2.5 mm

BODY & CHASSIS

Body	Proline
Chassis brace - front	Short
Rear wing	JT
Rear wing height	3
Rear wing mount	Standard
Rear wing position	Front
Weights	20g front and rear

SHOCKS

	FRONT	REAR
Oil weight	550 cst	550 cst
Pistons	8 x 1.2mm	8 x 1.3mm
Rebound	0 %	0 %
Shock type	Bladder	Bladder
Springs	70mm 1.6mm x 9.5T	86mm 1.6mm x 10.75T
Stroke	33 mm	40.5 mm

Shock oil brand	Ultimate

NOTES Vented bladder

DIFFERENTIALS

	FRONT	REAR
Diff fluid	7,000 cst	7,000 cst
Diff ring/pinion	44/13 teeth	44/13 teeth

Center diff fluid	10,000 cst
Diff fluid brand	Ultimate

DRIVETRAIN

Drive ratio - internal	3.385
Driveshaft - center front	Standard
Driveshaft - center rear	Standard
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	16 teeth
Spur	46 teeth

ELECTRONICS

Battery brand	SMC
Battery C rating	75 C
Battery capacity	6600 mAh
Battery model	ORS LCG
ESC brand	Hobbywing
ESC model	XR8 pro
Motor Kv constant	1900 Kv
Radio brand	Sanwa/Airtronics
Radio EPA steering	88 %
Radio EPA throttle	97 %
Radio model	M12s
Receiver brand	Sanwa/Airtronics
Steering servo brand	ProTek
Steering servo model	130-T
Transponder ID	7105603

NOTES 1c