Mugen MBX8R

Setup: My Base Setup · Taylor DeLosa (Factory Team, Reedy, Klinik RC) · Apr 30, 2025

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EVENT

Event	Season opener

TRACK

Track	Lcrc raceway
Type	Outdoor hard-packed
Grip / moisture	Medium / Dry
Surface / layout	Medium / Open

FRONT SUSPENSION

Ackermann: inner steering stud location	4
Anti-roll bar	2.3mm
Bumpsteer: outer steering link spacer	0 mm
Caster: upper arm shims - F/R	2 / 2 mm
Droop (shock length)	104 mm
FF mount inserts	Middle
FR mount inserts	Middle
Lower arm: stiffeners	1.2mm CFRP
Lower arms	Standard
Ride height	25 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	1.5 mm
Upper pillow ball shims	1.0 mm
Wheel hexes	+1mm
Trail: uprights	0 trail

UPPER ARM

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

BODY & CHASSIS

Body	Kit
Chassis brace - front	Short
Engine mount	One piece
Rear wing	Kit
Rear wing height	3
Rear wing mount	Standard
Rear wing position	Mid-front
Screws & turnbuckles	Titanium
Weights	20g rear weight

REAR SUSPENSION

Anti-roll bar	2.7mm
Arm stiffeners	None
Arms	Lightweight
Axle height: hub pin hole	Low (high pin)
Camber	-1.5 degrees

CAMBER LINK

Inner stud location	2 - Inside middle
Outer ball shims - F/R	0 / 6 mm
Outer plate orientation	Notch outward
Outer plates	3-dot
Outer stud location	C - Outside
Droop (shock length)	117 mm
Hubs	Standard
RF mount inserts	Center
Ride height	27 mm
RR mount inserts	Down

SHOCKS

Arm mount ball	Forward
Arm mounting hole	A - Inside
Tower mounting hole	3
Toe	2.5 degrees
Tower	Aluminum
Track: wheel hexes	+4mm

WHEELBASE

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

NOTES +5mm shock mount

ENGINE

Engine brand	OS AD3
Fuel	Flashpoint
Glow plug	P3
Pipe / header	OS 75mm/ 2090 TB02

ELECTRONICS

Receiver battery	Flashpoint
Steering servo brand	Mach1
Throttle servo brand	Mach1

SHOCKS

	FRONT	REAR
Oil weight	550 cst	500 cst
Pistons	MIP 3 1.35x 3 1.45 clear valve	MIP 3 1.35x 3 1.50 blue valve
Shock type	Emulsion	Emulsion
Springs	70mm 1.6mm x 9.25T	86mm 1.6mm x 10.75T
Stroke	32 mm	40 mm

Shock oil brand: Mugen Seiki

NOTES -3mm rear shock end

DIFFERENTIALS

	FRONT	REAR
Diff fluid	10,000 cst	7,000 cst
Diff ring/pinion	42/12 teeth	42/12 teeth

Center diff fluid: 10,000 cst

NOTES Flashpoint aluminum cross pins

DRIVETRAIN

Brake bias - F/R	- / -
Clutch shoes	Aluminum x 2 Carbon x 2
Clutch spring position	Dot
Clutch springs	0.95mm
Drive ratio - internal	3.5
Driveshaft - center front	Standard
Driveshaft - center rear	Standard
Driveshafts - front	Universal
Driveshafts - rear	CVD
Pinion	13 teeth
Spur	46 teeth

NOTES Aluminum rear axles