Mugen MBX8 Worlds Edition

Setup: Loose go to setup · Jason Courtney (Mugen Seiki) · May 21, 2021

so dialed
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TRACK

Track	CARC
Type	Outdoor loose/loamy
Grip / moisture	Low / Dry
Surface / layout	Medium / Medium
Air temp	70°F (21°C)
Track temp	70°F (21°C)

FRONT SUSPENSION

Anti-roll bar	2.1mm
Droop (shock length)	104 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	24 mm
SHOCKS	
Arm mounting hole	B - Outside
Tower mounting hole	3
Steering block arm	-3mm
Steering link: inner stud location	4
Steering plate - upper	Plastic
Toe	+2.5 degrees
Tower	Aluminum
Track: wheel hexes	+1mm
Upper arm spacers (caster)	Front 0mm / rear 4mm - less caster
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 Tie rods 28.5mm equals 2.5 toe out

BODY & CHASSIS

Body	Kit
Chassis brace - front	Short
Chassis brace - rear	Kit
Engine mount	Standard
Rear wing	Kit
Rear wing height	4 - Top
Rear wing mount	+15mm
Rear wing position	Middle
Weights	20G front 20G rear

REAR SUSPENSION

Anti-roll bar	2.5mm
Arm stiffeners	1.0mm Carbon fiber
Axle height: hub pin hole	High (low pin)
Camber	-3 degrees
CAMBER LINK	
Inner stud location	1 - Inside bottom
Outer stud location	C - Outside
Droop (shock length)	118 mm
Hubs	Plastic
RF (C) mount inserts	Bottom
RF (C) mounts	0mm
Ride height	25 mm
RR (D) mount inserts	Bottom middle
SHOCKS	
Arm mounting hole	B - Outside
Arm pivot ball orientation	Front
Tower mounting hole	3
Toe	-2.5 degrees
Tower	Aluminum
Track: wheel hexes	+1mm
WHEELBASE	
Arm spacers	0 mm
Hub spacers	Front 2.5mm / rear 2.5mm

NOTES Rear link 20mm

ENGINE

Engine brand	OS
Engine model	AD1
Fuel	Bones brew

TIRES

NOTES VP Pro

SHOCKS

	FRONT	REAR
Oil weight	500 cst	400 cst
Pistons	Mip 6 hole blue valve	Mip 6 hole green valve
Rebound	0 %	0 %
Springs	70mm 1.6mm x 9.25T	86mm 1.6mm x 10.75T
Stroke	33 mm	40 mm

Shock oil brand: Flash Point

NOTES
Mip bypass pistons 6 hole
Emulsion Caps no bladder
Front blue valves
Rear green valves
@55 ambient
Front 400
Rear 300

DIFFERENTIALS

	FRONT	REAR
Diff fluid	7,000 cst	5,000 cst
Diff ring/pinion	42/12 teeth	42/12 teeth

Center diff fluid	7,000 cst
Center diff type	Kit
Diff fluid brand	FP

DRIVETRAIN

Brake bias	Front 55 / rear 45
Center shafts	Low friction CVD (#E2261, #E2262)
Clutch shoes & springs	Protek 4 shoe
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	14 teeth
Spur	46 teeth

ELECTRONICS

Radio brand	Futaba
Radio model	4PV
Receiver battery	Lipo
Steering servo brand	ProTek
Throttle servo brand	ProTek