Mugen MBX8 Worlds Edition

Setup: Robbins Base Outdoor M-L · Ricky Robbins (Robbins RC) · Mar 10, 2022

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TRACK

Type	Outdoor hard-packed
Grip / moisture	Medium / Dry
Surface / layout	Medium / Medium
Air temp	80°F (27°C)

FRONT SUSPENSION

Anti-roll bar	2.3mm
Camber	-3 degrees
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	25 mm
SHOCKS	
Arm mounting hole	B - Outside
Tower mounting hole	3
Steering block arm	-3mm
Steering link: inner stud location	3
Steering plate - upper	Plastic
Toe	+1 degrees
Tower	Aluminum
Track: wheel hexes	+1mm
Upper arm spacers (caster)	Front 2mm / rear 2mm
UPPER ARM	
Mount inserts - front	Bottom
Mount inserts - rear	Bottom
Pillow ball spacers	1.0 mm
Pillow balls	Kit
Wheelbase: lower arm spacers	0 mm

BODY & CHASSIS

Body	VP Pro
Chassis brace - front	Short
Chassis brace - rear	Kit
Engine mount	Standard
Rear wing	Kit
Rear wing height	3
Rear wing mount	+15mm
Rear wing position	Middle
Weights	12g rear

REAR SUSPENSION

Anti-roll bar	2.5mm
Arm stiffeners	1.0mm Carbon fiber
Axle height: hub pin hole	High (low pin)
Camber	-2 degrees
CAMBER LINK	
Inner stud location	4 - Outside bottom
Outer stud location	C - Outside
Droop	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	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 +4.5mm avid shock stands

ENGINE

Engine brand	Alpha
Engine model	3 port
Fuel	Biggest Brew 9/30
Glow plug	OS #4
Head clearance	2 shims brass
Pipe / header	Dynamite 053mr

ELECTRONICS

Radio brand	FlySky NB4
Radio EPA steering	100 %

SHOCKS

	FRONT	REAR
Oil weight	550 cst	400 cst
Pistons	3 x 1.35 3 x 1.45 blue mip	3 x 1.35 3 x 1.50 mip green
Rebound	0 %	0 %
Springs	70mm 1.6mm x 9.25T	86mm 1.6mm x 10.75T
Stroke	33 mm	40 mm
Shock oil brand	PT RC	

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	

DRIVETRAIN

Brake bias	Front 60 / rear 40
Center shafts	Universal (#E2228, #E2229)
Clutch shoes & springs	VP 4 shoes, aluminum , 4 x.9 springs
Drive ratio - internal	3.39
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	13 teeth
Spur	46 teeth

TIRES

	FRONT	REAR
Tire brand / type	Aka Gridiron	Aka Gridiron
Tire compound	Sslw	SSLW
Tire insert	Closed-cell	Closed-cell
Tire prep	One hole punched down center of foam	One hole center of foam on each rib
Wheel brand / type	Aka	Aka