Mugen MBX8 ECO Team Edition

Setup: Loose go to setup · Jason Courtney (Mugen Seiki) · Jun 5, 2022

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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
Camber	-2.5 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	24 mm
SHOCKS	
Arm mounting hole	B - Outside
Arm pivot ball orientation	Front
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

REAR SUSPENSION

Anti-roll bar	2.5mm
Arm stiffeners	Plastic
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 high wing
Track: wheel hexes	+1mm
WHEELBASE	
Arm spacers	0 mm
Hub spacers	Front 2.5mm / rear 2.5mm

NOTES Rear link 20mm

BODY & CHASSIS

Body	Kit
Chassis brace - front	Short
Chassis brace - rear	Kit
Rear wing	Kit
Rear wing height	4 - Top
Rear wing mount	+15mm
Rear wing position	Middle

SHOCKS

	FRONT	REAR
Oil weight	500 cst	400 cst
Pistons	6H mip blue valve	6H mip green valve
Rebound	0 %	0 %
Springs	70mm 1.6mm x 9.0T	86mm 1.6mm x 10.5T
Stroke	33 mm	40 mm

Shock oil brand	Flash Point

NOTES At 55 degrees ambient
Emulsion caps no bladder
Front 400
Rear 300

DIFFERENTIALS

	FRONT	REAR
Diff fluid	7,000 cst	5,000 cst
Diff ring/pinion	44/13 teeth	44/13 teeth
Diff type	High traction	High traction

Center diff fluid	10,000 cst
Center diff type	High traction 46T
Diff fluid brand	Flash Point

DRIVETRAIN

Center shafts	Low friction CVD (#E2261, #E2262)
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	16 teeth
Spur	46 teeth

ELECTRONICS

ESC brand	Hobbywing
Motor brand	Hobbywing
Radio brand	Futaba
Radio model	4PV
Steering servo brand	MKS Servos