Mugen MBX8

Setup: Jason Reedy Base Setup · NexGen Prime · Mar 10, 2022

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EVENT	
Event	Sunday Club Race

TRACK	
Track	Action Park RC Grand Prairie, TX
Type	Outdoor hard-packed
Grip / moisture	Medium / Dry
Surface / layout	Medium / Medium
Air temp	60°F (16°C)
Track temp	68°F (20°C)

RESULTS	
Best lap	24.386 s
Average lap	25.427 s

FRONT SUSPENSION

Anti-roll bar	2.0mm AE
Camber	-1.5 degrees
Droop (shock length)	106 mm
FF (A) mount inserts	Middle
FR (B) mount inserts	Middle
Hub carrier	1.5mm trail
LOWER ARM	
Pillow ball spacers	2.5 mm
Pillow balls	Kit
Stiffeners	Plastic
Ride height	24 mm
SHOCKS	
Arm mounting hole	B - Outside
Tower mounting hole	3
Steering block arm	Standard
Steering link: inner stud location	4
Steering plate - upper	Plastic
Toe	+3 degrees
Tower	Aluminum
Track: wheel hexes	+2mm
Upper arm spacers (caster)	Front 1mm / rear 3mm
UPPER ARM	
Mount inserts - front	Middle
Mount inserts - rear	Middle
Pillow ball spacers	0 mm
Pillow balls	Kit
Wheelbase: lower arm spacers	2mm

NOTES The front is very neutral and has just the right amount of on and off power steering.

BODY & CHASSIS

Body	Jconcepts S15
Chassis brace - front	Short
Chassis brace - rear	Kit
Engine mount	One piece
Rear wing	Jconcepts finnisher
Rear wing height	3
Rear wing mount	+15mm
Rear wing position	Front
Weights	20g rear

REAR SUSPENSION

Anti-roll bar	2.2mm Xray
Arm stiffeners	Plastic
Axle height: hub pin hole	Low (high pin)
Camber	-3 degrees
CAMBER LINK	
Inner stud location	1 - Inside bottom
Outer stud location	C - Outside
Droop (shock length)	119 mm
Hubs	Plastic
RF (C) mount inserts	Middle
RF (C) mounts	0mm
Ride height	26 mm
RR (D) mount inserts	Bottom outside
SHOCKS	
Arm mounting hole	B - Outside
Arm pivot ball orientation	Rear
Tower mounting hole	2
Toe	-3.5 degrees
Tower	Aluminum
Track: wheel hexes	+2mm
WHEELBASE	
Arm spacers	1mm front / 1mm rear mm
Hub spacers	Front 5mm / rear 0mm - long

NOTES The car feels easy to drive and you can push it, the rear end is locked in rather well but if you get on power too hard and don't have the wheels straight it still does a donut.

ENGINE

Engine brand	OS Speed B21 Drake AD2
Engine model	B21 Drake AD2
Fuel	Flash Point 30%
Glow plug	P3 Gold
Pipe / header	2100

TIRES

	FRONT	REAR
Tire brand / type	Jconcepts Detox	Jconcepts Detox
Tire compound	Blue	Blue
Tire insert	Closed-cell	Closed-cell
Wheel brand / type	Avid	Avid

NOTES These tires work great at most tracks higher bite surfaces I switch to reflex or rehab as detox are too much traction.

SHOCKS

	FRONT	REAR
Oil weight	500 cst	500 cst
Pistons	6 hole MIP 3 x 1.3 / 3 x 1.35 1 blue 1 green disc	6 hole MIP 3 x 1.3 / 3 x 1.35 2 blue discs
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	

NOTES The car lands plush on jumps and feels good but needs to be lighter in rougher tracks.

DIFFERENTIALS

	FRONT	REAR
Diff fluid	5,000 cst	4,000 cst
Diff ring/pinion	42/12 teeth	42/12 teeth
Center diff fluid	6,000 cst	
Center diff type	Kit	
Diff fluid brand	PT Oils	

NOTES I am going to work on changing the front diff gear ring and pinion to the 44/13t overdrive setup and running a higher diff CST in the front and lowering the center and rear diff fluid.

DRIVETRAIN

Brake bias	Front 50 / rear 50
Center shafts	CVD (#E0223, #E0259)
Clutch shoes & springs	4 aluminum shoes with 2 x 0.9mm & 2 x 1.0mm springs
Driveshafts - front	Universal
Driveshafts - rear	Universal
Pinion	13 teeth
Spur	47 teeth

NOTES I run the OS Speed clutch on an AD2 Drake with flash point 30% fuel

ELECTRONICS

Radio brand	Sanwa/Airtronics
Radio model	M12RS
Receiver battery	Reedy 2400
Receiver brand	Sanwa/Airtronics
Steering servo brand	ProTek
Steering servo model	170tbl
Throttle servo brand	ProTek
Throttle servo model	170tbl