Mugen MBX8 ECO

Setup: MDA 2020 · Charles Dekeado (Magen Seiki) · Oct 2, 2022

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EVENT

Event	MDA Tristate Off-road Championship (qual-4/finished-6 expert

TRACK

Track	SCRC/Sun City RC Raceway, EL Paso TX
Type	Outdoor loose/loamy
Grip / moisture	Medium / Dry
Surface / layout	Medium / Medium

FRONT SUSPENSION

Anti-roll bar	2.3mm
Camber	Kit degrees
Droop (shock length)	105 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
Arm pivot ball orientation	Front
Tower mounting hole	1 - Inside
Steering block arm	-3mm
Steering link: inner stud location	3
Steering plate - upper	Plastic
Toe	29mm degrees
Tower	Aluminum
Track: wheel hexes	+2mm
Upper arm spacers (caster)	Front 1mm / rear 3.25
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

TIRES

	FRONT	REAR
Tire brand / type	AKA/ Zipp	AKA
Tire compound	Soft	Soft
Tire insert	Closed-cell	Closed-cell
Tire prep	Standard non modified red insert	Standard non-modified red insert
Wheel brand / type	AKA	AKA

NOTES White wheels FTW

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	2 - Inside middle
Outer stud location	B - Middle
Droop (shock length)	118.5 mm
Hubs	Aluminum
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	2
Toe	-2.5 degrees
Tower	Aluminum
Track: wheel hexes	+2mm
WHEELBASE	
Arm spacers	0 mm
Hub spacers	Front 2.5mm / rear 2.5mm

BODY & CHASSIS

Body	Kit
Chassis brace - front	Short
Chassis brace - rear	Kit
Rear wing	Kit
Rear wing height	3
Rear wing mount	Kit
Rear wing position	Front
Weights	20 gram rear weight

NOTES Battery stop can be removed/flipped forward to move battery to the rear helping to create more rear grip in low traction conditions.

SHOCKS

	FRONT	REAR
Oil weight	550 cst	550 cst
Pistons	MIP Bypass1 6-Hole(un-drilled)	MIP Bypass1 6-Hole(un-drilled)
Springs	70mm 1.6mm x 9.0T	86mm 1.6mm x 10.5T
Stroke	34 mm	41 mm
Rebound	–	0 %
Shock oil brand	Flash Point	

NOTES Red Flashpoint Bladder

DIFFERENTIALS

	FRONT	REAR
Diff fluid	7,000 cst	3,000 cst
Diff ring/pinion	44/13 teeth	42/12 teeth
Center diff fluid	3,000 cst	
Center diff type	Kit	
Diff fluid brand	Flashpoint	

NOTES Underdrive rear only

DRIVETRAIN

Center shafts	CVD (#E0223, #E0259)
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	15 teeth
Spur	46 teeth

NOTES TE drivetrain parts

ELECTRONICS

Battery brand	**SMC**
Battery C rating	**120**
Battery capacity	**4500 mAh**
Battery model	**Pro spec LCG old style deans**
ESC brand	**Hobbywing**
ESC model	**XR8 Plus 150A**
ESC settings	**Punch 9, Brake 75%, rest default**
Motor brand	**Hobbywing**
Motor Kv constant	**1900 Kv**
Motor model	**Xerun 4268SD G2 Sensored**
Motor timing	**0 degrees**
Radio brand	**Spektrum RC**
Radio EPA steering	**121 L&R %**
Radio EPA throttle	**100 %**
Radio model	**DX6R 1.0mm Vulcan bat grip/wrap installed**
Receiver brand	**Spektrum RC**
Receiver model	**SR2010 2-channel**
Steering servo brand	**Xpert**
Steering servo model	**GS-6401 R2/BLS 25f FP Aluminum Horn**