Mugen MBX8R

Setup: Barnstormers · Casey Kelly (Mugen Seiki) · Aug 23, 2024

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EVENT	
Event	Ness RD1
Class	Expert nitro buggy

TRACK	
Track	Barnstormers
Type	Outdoor hard-packed
Grip / moisture	Medium / Dry
Surface / layout	Medium / Medium
Air temp	80°F (27°C)
Track temp	95°F (35°C)

RESULTS	
Race type	Main
Race number	7
Finish	4th
Best lap	25.904 s
Average lap	28.608 s

FRONT SUSPENSION

Ackermann: inner steering stud location	3
Anti-roll bar	2.1mm
Bumpsteer: outer steering link spacer	0 mm
Caster: upper arm shims - F/R	2 / 2 mm
Droop (shock length)	104 mm
FF mount inserts	Middle
FR mount inserts	Middle
Lower arm: stiffeners	None
Lower arms	Lightweight
Ride height	25 mm
SHOCKS	
Arm mount ball	Forward
Arm mounting hole	B - Outside
Tower mounting hole	2
Steering block arm	-3mm
Toe	-1 degrees
Tower	Aluminum
TRACK	
Lower pillow ball shims	1.0 mm
Upper pillow ball shims	1.0 mm
Wheel hexes	+1mm
Trail: uprights	0 trail
UPPER ARM	
Mount inserts - front	Center
Mount inserts - rear	Center
Wheelbase: lower arm spacers - F/R	0 / 1 mm

BODY & CHASSIS

Body	S15
Chassis brace - front	Short
Engine mount	Standard
Rear wing	Tzo
Rear wing height	3
Rear wing mount	Standard
Rear wing position	Mid-front
Weights	20g

REAR SUSPENSION

Anti-roll bar	2.4mm
Arm stiffeners	None
Arms	Lightweight
Axle height: hub pin hole	Low (high pin)
Camber	-3 degrees
CAMBER LINK	
Inner stud location	1 - Inside bottom
Outer ball shims - F/R	0 / 6 mm
Outer plate orientation	Notch outward
Outer plates	3-dot
Outer stud location	C - Outside
Droop (shock length)	118 mm
Hubs	Standard
RF mount inserts	Down and in
Ride height	26 mm
RR mount inserts	Down
SHOCKS	
Arm mount ball	Forward
Arm mounting hole	B - Outside
Tower mounting hole	2
Toe	2.5 degrees
Tower	Aluminum
Track: wheel hexes	+1mm
WHEELBASE	
Arm shims - F/R	0 / 1 mm
Hub shims - F/R	2.5 / 2.5 mm

ENGINE

Engine brand	O.S
Engine model	RD2
Fuel	Nitro Pro JTP
Glow plug	P3 gold
Head clearance	75mm
Pipe / header	Hipex 2146

TIRES

	FRONT	REAR
Tire brand / type	Tzo 402	Tzo 402
Tire compound	soft	soft

SHOCKS

	FRONT	REAR
Oil weight	550 cst	500 cst
Pistons	MIP high flow bypass 6 hole	MIP high flow bypass 6 hole
Rebound	Blue valves %	Green valves %
Shock type	Emulsion	Emulsion
Springs	70mm 1.6mm x 9.25T	86mm 1.6mm x 10.75T
Stroke	32 mm	40 mm

Shock oil brand	Mugen Seiki

NOTES Blue valves in front and green valves in rear

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
Diff fluid brand	Flashpoint

NOTES Flashpoint aluminum cross pins

DRIVETRAIN

Brake bias - F/R	60/40
Clutch shoes	Aluminum x 2 Carbon x 2
Clutch spring position	Dot
Clutch springs	0.95mm
Drive ratio - internal	3.5
Driveshaft - center front	Standard
Driveshaft - center rear	Standard
Driveshafts - front	CVD
Driveshafts - rear	CVD
Pinion	13 teeth
Spur	46 teeth

ELECTRONICS

Radio brand	Sanwa/Airtronics
Radio model	Mt44
Receiver battery	Flashpoint 2500mah
Receiver brand	Sanwa/Airtronics
Steering servo brand	Savox
Throttle servo brand	Savox