Mugen MTC2

Setup: Piding, Germany Carpet, Oct 10 · Ronald Volker (Mugen Seiki Europe) · Jul 24, 2022

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EVENT	
Class	Modified Touring Car

TRACK	
Track	Piding, Germany
Type	Indoor carpet
Grip / moisture	Medium / Dry
Surface / layout	Medium / Medium
Air temp	20°C (68°F)

RESULTS	
Race type	Main
Race number	A
Finish	1st

FRONT SUSPENSION

Anti-roll bar	1.1mm (#A2153/11)
Axle height: upright spacers - up/down	2 / 0.5 mm
Camber	-2 degrees
Downstop	6.2 mm
Lower arm FF spacers	1.0
Lower arm FR spacers	1.0
Lower arms	Kit
Ride height	5.0 mm
Servo horn length	17 mm
Servo horn shims	4 mm
Shock tower	Active
SHOCKS	
Arm mount location	B - Outside
Upper mount spacers	3.5
Steering angle - in/out	- / 17 degrees
Steering arms	Kit
Steering link: outer stud spacers	2.0 mm
Steering: Ackermann shims	1.0 mm
Toe	-1.25 degrees
Upper arm FF spacers	1.5
Upper arm FR spacers	1.5
Upper arm position (caster)	4 degrees
Upper arms	Kit (#A2148A/B)
Wheel hex	+4mm

NOTES Steering limiter: 6mm
Body protector used
Servo horn: B0553

ELECTRONICS

Battery brand	LRP
Battery capacity	4000 mAh
ESC brand	LRP
Motor brand	LRP
Motor wind	5 turns
Receiver brand	Sanwa/Airtronics
Receiver model	493
Steering servo brand	Highest

REAR SUSPENSION

Anti-roll bar	1.0mm (#A2153/10)
Axle height: upright spacers - up/down	2 / 1.5 mm
Camber	-2 degrees
Caster: upper arm position	-4 degrees
Downstop	4. 2 mm
Lower arm RF spacers	1.0
Lower arm RR spacers	1.0
Lower arms	Kit
Ride height	5.2 mm
Shock tower	Active
SHOCKS	
Arm mount location	A - Inside
Upper mount spacers	4.5
Toe	2.75 degrees
TOE LINK	
Outer stud location	B - Back
Outer stud spacers	2.0 mm
Track: wheel hexes	+4mm
Upper arm RF spacers	1.0
Upper arm RR spacers	1.0
Upper arms	Kit (#A2148A/B)

BODY & CHASSIS

Battery position	Rear
Body	Twister
BODY HEIGHT	
Front	49 mm
Rear	46+2 mm
Body to chassis distance	51 mm
Chassis	Graphite
Motor mount screws	1 - Front, 4, 5
Rear wing	Twister
Rear wing position	+0mm
Upper deck	2mm
Upper deck brace	Rear upper deck
Upper deck screws	3
Weight distribution hole	3-4
Weight: total	1320 g
Weights	Mid-Left: 15g Mid-Right: 5g Center 18g (H2412)
Weights: optional	A2424, A2705, A2706

SHOCKS

	FRONT	REAR
Oil weight	30 wt	35 wt
Pistons	4 x 1.3mm	4 x 1.3mm
Springs	7T progressive	6.5T medium-soft
Stroke	9.5 mm	9.5 mm
Shock oil brand	AXON	

NOTES Front shock case: bypass

DIFFERENTIALS

	FRONT	REAR
Diff fluid	–	6,000 cst
Front diff type	Solid axle	
Rear diff oil mass	1.6 g	

DRIVETRAIN

Drive ratio - final	7.60
Drive ratio - internal	1.9
Driveshafts - front	Universal
Driveshafts - rear	CV
Gear pitch	64
Pinion	27 teeth
Spur	108 teeth

NOTES Belt tension F/R: 3

TIRES

	FRONT	REAR
Tire additive	MR33 v4	MR33 v4
Tire brand / type	Volante 28	Volante 28
Tire prep	10 min warmer	10 min warmer