Schumacher Mi8

Setup: 2/19 The Shop Shootout SRCR · Zack Morgan · Feb 21, 2024

so dialed
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EVENT

Event	The shop shootout 2024.
Class	21.5 touring

TRACK

Track	The Shop Shootout 2024, black crc.
Type	Indoor carpet
Grip / moisture	High / Dry
Surface / layout	Smooth / Tight

RESULTS

Race type	Main
Finish	4th
Best lap	9.72 s
Average lap	10.0 s

FRONT SUSPENSION

ACKERMANN	
Inner steering link shims	0 mm
Outer steering link location	C - Kit steering arm
Anti-roll bar	1.2 mm
Bump steer: outer steering link shims	1 mm
Camber	-2 degrees
Caster	4 degrees
Differential/spool height	Low
Droop	23 mm
FF arm mount shims	0 mm
FR arm mount shims	0 mm
Ride height	5 mm
Shocks: tower mounting hole	2 - Mid-in
Steering blocks	Aluminum
Steering travel - in/out	24.5 / 17.5 degrees
Toe	-1 degrees
TRACK	
Axle shims	0 mm
Wheel hexes	Medium
Upper link mounts	0 dot
Upper link type	Links
UPPER LINKS	
Inner stud shims	1.5 mm
Outer stud shims	3 mm

REAR SUSPENSION

Anti-roll bar	1.2 mm
Camber	-2 degrees
Caster	4 degrees
Differential height	Low
Droop	22 mm
Hubs	Composite
RF arm mount shims	0 mm
Ride height	5.2 mm
RR arm mount shims	0 mm
Shocks: tower mounting hole	2 - Mid-in
Toe - active	2.0 degrees
Toe - active: shims	3 mm
Toe - static	2 degrees
TRACK	
Axle shims	0 mm
Wheel hexes	Medium
Upper link mounts	0 dot
Upper link type	Links
UPPER LINKS	
Inner stud shims	1.5 mm
Outer stud shims	3 mm

SHOCKS

	FRONT	REAR
Cap type	Vented	Vented
External limiters	0 mm	0 mm
Oil weight	35 wt	35 wt
Pistons	4 x 1mm	4 x 1mm
Rebound	1 mm	1 mm
Springs	Xray xrp 2.5-2.8	Xray xrp 2.6
Stroke	9 mm	9 mm

Shock oil brand: Team Associated

DIFFERENTIALS

	FRONT	REAR
Diff type	Spool	Gear
Diff fluid	–	7,000 cst

Rear diff fluid mass: 1.6 g

DRIVETRAIN

Drive ratio - final	4.13
Drive ratio - internal	1.818
Gear pitch	64
Pinion	44 teeth
Spur	100 teeth

NOTES Bearings decreased and lubricated with 1up Bearings oil

BODY & CHASSIS

Battery position	**Middle**
Body	**Extreme aerodynamics Twister**
Body height - front	**7mm**
Body mounts	**Vertical**
Body stopper height	**3 mm**
Bumper	**Alera3d**
Bumper brace	**Kit**

FLEX

Chassis	**HGT Aluminum**
Chassis brace	**None**
Motor mount screws	**3, 4**
Upper deck	**1.6mm**
Upper deck dowel	**Both**
Rear wing	**Twister .5mm**
Rear wing height	**111**
Rear wing trim	**Low mark**
Screws & turnbuckles	**Klinic Titanium screws**
Weight balance (F/R)	**49 / 51**
Weight: total	**1326 g**
Weights	**26g under battery weight. Approx 60g of brass used to achieve 50% left/right balance and get to minimum weight.**

NOTES HGT kit installed
Body mounted 0mm

TIRES

	FRONT	REAR
Tire brand / type	**Gravity**	**Gravity**
Tire compound	**Type-c**	**type-c**
Tire insert	**Gravity**	**Gravity**
Wheel brand / type	**Gravity**	**Gravity**

NOTES Front tires glued sidewall to edge. Additive on full tire front and rear 5 minutes before heat.

ESC SETTINGS

Throttle: Frequency	**2000 kHz**

ELECTRONICS

Battery brand	**ProTek**
Battery capacity	**6400 mAh**
Battery model	**6400 lihv**
ESC brand	**Hobbywing**
ESC model	**Xr10 pro**
Motor brand	**R1 WURKS**
Motor model	**V21-s**
Motor timing	**50 degrees**
Motor wind	**17.5 turns**
Radio brand	**Sanwa/Airtronics**
Radio EPA steering	**70 %**
Radio model	**M17**
Receiver brand	**Sanwa/Airtronics**
Receiver model	**Rx482**
Steering servo brand	**ProTek**
Steering servo model	**160SS**

NOTES Steering speed -15%
Brake EPA 80%