XRAY X4 '24

Setup: Valkaria RCAmerica Challenge · Donovan Pinkerton (My wallet and my budget) · Aug 18, 2025

so dialed
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EVENT	
Event	RCAMERICA Challenge
Class	25.5 TC

TRACK	
Track	Valkaria
Type	Outdoor asphalt
Grip / moisture	Medium / Dry/Wet
Surface / layout	Smooth / Medium/Open
Air temp	90°F (32°C)
Track temp	130°F (54°C)

RESULTS	
Race type	Qualifier
Race number	1
Finish	1st
Best lap	15.3 s
Average lap	15.6 s

FRONT SUSPENSION

ACKERMANN	
Inner steering link shims	0.5 mm
Steering arms	Standard
Steering plate	8mm
Anti-roll bar	1.3 mm
Arms - lower	Med (#302182/3-M)
Arms - upper	Soft (#302134/44-S)
Axle height: hub shims	0.5 mm
Bump steer: outer steering link shims	2 mm
Camber	-2 degrees
CAMBER LINK	
Inner shims	2.5 mm
Outer shims	3 mm
Caster bushings	4 degrees - 2 dot
Differential height	High
Downstop	6.0 mm
FF mount shims	2 mm
FR mount shims	2 mm
Hubs	Graphite
Ride height	5.0 mm
Servo arm type	Servo saver
Servo saver shims	3 mm
Servo saver stud radius	19 mm
Shock tower mount screws	Both
Shocks: tower shims	4 mm
Steering lock	26 deg - 7.5mm shim
Toe out	1 degrees
TRACK	
Wheel hexes	+0mm
Wheel shims	0 mm

REAR SUSPENSION

Anti-roll bar	1.2 mm
Arms - lower	Med (#303182/3-M)
Arms - upper	Soft (#302134/44-S)
Axle height: hub shims	0.5 mm
Camber	-2 degrees
CAMBER LINK	
Inner stud shims	1.5 mm
Outer stud shims	3 mm
Caster bushings	2.5 degrees - 3 dot forward
Differential height	High
Downstop	4.8 mm
Hubs	Graphite
RF mount shims	2.5 mm
Ride height	5.2 mm
RR mount shims	2.5 mm
Shock tower mount screws	Both
SHOCKS	
Holder type	Fixed
Tower shims	4 mm
Toe gain: ARS link outer shims	2 mm
Toe in	2.5 degrees
TRACK	
Wheel hexes	+0mm
Wheel shims	0 mm

SHOCKS

	FRONT	REAR
Foam inserts	No	No
Oil weight	475	475
Pistons	4x1.2mm	4x1.2mm
Rebound	0 %	0 %
Springs	2.5-2.8C	2.8C
Stroke	8.0 mm	8.0 mm

Shock oil brand: CORE

DRIVETRAIN

Belts	Standard
Diff fluid brand	XRAY
DIFFS	
Front type	Solid axle
Rear fluid	5,000 cst
Drive ratio - final	3.19
Drive ratio - internal	1.9
Driveshafts - front	58mm BB ECS
Driveshafts - rear	54mm BB CVD
Gear pitch	64
Pinion	50 teeth
Spur	84 teeth

NOTES MR33 white belts

BODY & CHASSIS

Battery position	**Center**
Body	**Wolverine .4**
BODY MOUNTS	
Front height	**7th hole + o-ring**
Front post-to-window distance	**66.5 mm**
Rear bumper height	**65 mm**
Rear type	**Vertical**
Body stop height	**11.5 mm**
Bumper	**3D**
FLEX	
Chassis	**1.5mm aluminum**
Chassis T-brace	**No**
Motor mount screws	**4, 5**
Servo mount	**Forward**
Steering bridge brace	**No**
Top deck	**Front '23, Rear '23**
Top deck screws	**2, 3, 4**
Motor shims	**0 mm**
Rear wing	**Wolverine**
Rear wing side dam	**Yes**
Weight balance - F/R	**50 / 50**
Weight: total	**1320 g**
Weights	**2x5g in front of servo and battery**

NOTES Used RC Maker '23 bulkhead damper on front top deck since I didn't have a top deck with a bridge. This helped consistency in high speed corners.

TIRES

	FRONT	REAR
Tire additive	**MGY**	**MGY**
Tire additive area	**In, Mid-in, Mid-out, Out**	**In, Mid-in, Mid-out, Out**
Tire additive timing	**10 min**	**10 min**
Tire additive wipe-off time	**10 min**	**10 min**
Tire brand / type	**Sweep**	**Sweep**
Tire warmer temp	**60 degrees**	**60 degrees**
Tire warmer time	**10 min**	**10 min**
Wheel brand / type	**Sweep**	**Sweep**

ELECTRONICS

Battery brand	**Tekin**
Battery capacity	**6200 mAh**
Battery model	**6200 powercell**
ESC brand	**Tekin**
ESC model	**RS Gen3 Spec**
Motor timing	**50 degrees**
Motor wind	**25.5 turns**

NOTES 15A charge 20A discharge. 1 cycle before each run