Xpress EXECUTE XQ2S 4WD

Setup: Valkaria 7/28/24 VTA · Donovan Pinkerton (My wallet and my budget) · Dec 19, 2024

so dialed
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EVENT

Event	VTS 1 rain make up race 7/28/24
Class	VTA

TRACK

Track	Valkaria
Type	Outdoor asphalt
Grip / moisture	Medium/High / Dry
Surface / layout	Smooth / Open
Air temp	90°F (32°C)
Track temp	140°F (60°C)

RESULTS

Race type	Main
Finish	6th
Best lap	16.9 s
Average lap	17.5 s

FRONT SUSPENSION

Ackermann: inner link spacers	0 mm
Anti-roll bar	1.3 mm
Arms	Hard
Camber	-2 degrees
CAMBER LINK	
Inner stud location	Rear
Inner stud spacers	1.5 mm
Outer stud spacers	0 mm
Differential height	High
Downstop	5.5 mm
FF mount	Plastic
FF mount inserts	0 center
FF mount spacers	0 mm
FR mount	Split plastic
FR mount inserts	0 center
FR mount spacers	0 mm
Hub carriers	Hard 4-deg
Ride height	5.2 mm
SHOCKS	
Arm mount spacers	0 mm
Tower mount spacers	0 mm
Tower mounting hole	2 - Middle
Steering block plates	Hard
Steering blocks	Hard
STEERING LINK	
Outer stud location	1 - Outside
Outer stud spacers	0 mm
Steering plate spacers	0 mm
Toe	-0.5 degrees
Tower	FRP 3.0mm Short
Track: wheel hexes	Composite
Wheelbase: arm spacers - F/R	- / -.02 mm

REAR SUSPENSION

Anti-roll bar	1.2 mm
Arms	Medium
Camber	-2 degrees
CAMBER LINK	
Inner stud location	Rear
Inner stud spacers	0.5 mm
Outer stud location	A - Inside
Outer stud spacers	1.5 mm
Differential height	High
Downstop	4.5 mm
OPCS link stud spacers - inner/outer	- / - mm
RF mount	Split plastic
RF mount inserts	0 center
RF mount spacers	0 mm
Ride height	5.5 mm
RR mount	Solid plastic
RR mount inserts	0 center
RR mount spacers	0 mm
SHOCKS	
Arm mount spacers	0 mm
Tower mount spacers	0 mm
Tower mounting hole	2 - Middle
Toe	+3 mm
Tower	FRP 3.0mm Short
Track: wheel hexes	Composite
Uprights	Medium
Wheelbase: arm spacers - F/R	- / -.02 mm

NOTES X-ray 2.6 spring

SHOCKS

	FRONT	REAR
Bodies	Composite short	Composite short
Oil weight	400 cst	400 cst
Pistons	4-hole	4-hole
Rebound	0 %	0 %
Springs	Silver medium	Silver medium
Stroke	10.5 mm	10.5 mm

Shock oil brand: CORE

NOTES Hole in caps

DIFFERENTIALS

	FRONT	REAR
Diff fluid	–	5,000 cst
Diff fluid mass	–	1.1 g

Diff fluid brand	Xpress
Front diff type	Spool

NOTES Could benefit from either slightly lighter oil or xrings instead of orings

DRIVETRAIN

Drive ratio - final	3.5
Drive ratio - internal	1.9
Driveshafts - front	XQ1-S Universal
Driveshafts - rear	XQ1-S Universal
Front drive type	Spool
Pinion	49 teeth
Spur	90 teeth

NOTES Ran 1st 2 qualifiers with 3.2 FDR. This turned out to be too much gear. Went to 3.5 and the car had drastic improvement everywhere including the straight.

BODY & CHASSIS

Battery position	**Front**
Body	**McAllister Cuda**
Body position	**Neutral**
Bumper	**Foam light**
Center post	**Yes**

FLEX

Chassis	**FRP 2.5mm**
Motor mount screws	**3, 4, 5**
Upper deck	**FRP 2.0mm v2**
Upper deck collar	**High flex**
Upper deck stiffener location	**Front (low flex)**
Motor location	**Rear**
Weight balance (F/R)	**50 / 50**
Weight: total	**1400 g**
Weights	**10g behind front arm mounts 2 x 5g Awesomatix center line fixed with screws 1 10g Awesomatix weight behind battery 1 10 g Awesomatix weight taped to outside side of esc**

NOTES Removed red posts between front and rear bulkheads.

TIRES

	FRONT	REAR
Tire brand / type	**HPI**	**HPI VTA**
Tire compound	**VTA**	**VTA**
Tire insert	**Stock**	**Stock**
Wheel brand / type	**HPI**	**HPI VTA**

Tire additive - F/R	**Tire tac**
Tire glue diameter - F/R	**- / - mm**
Tire prep - F/R	**Cleaned with brake cleaner Applied tire tax full tire f/r Let air dry Tires took about 1 minute to come in on the track before this had a lot of push. Will try tire warmers next time.**

NOTES Try tire warmers next time. Tires seem to take a while to start handling correctly. Do not make setup changes until car has been driven for at least a minute and a half!!!

ESC SETTINGS

BRAKE

Drag	**0 %**
Strength	**75**

THROTTLE

Initial strength	**3 %**
Neutral range	**6 %**
Strength	**15**

NOTES Freewheel enabled

ELECTRONICS

Battery brand	**Cayote**
Battery capacity	**7000 mAh**
Battery model	**7000**
ESC brand	**Hobbywing**
ESC model	**Justock G3S**
ESC settings	**Freewheel enabled 0 drag brake 15 throttle 6% neutral 3% initial power**
Motor brand	**Trinity**
Motor model	**RevTech**
Motor timing	**50 degrees**
Motor wind	**25.5 turns**
Radio brand	**Radiomaster**
Radio EPA throttle	**100 %**
Radio model	**MT12**
Receiver brand	**Flysky**
Receiver model	**GR3E**
Steering servo brand	**Sanwa/Airtronics**
Steering servo model	**SXR**

NOTES Discharged then charged at 9A switching between 2 packs.

NOTES 6v