ARC R12

Setup: Stock TC · George Fabbiani (ARC) · Aug 7, 2021

so dialed
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TRACK	
Track	360V2
Type	Indoor carpet
Grip / moisture	High / Dry
Surface / layout	Smooth / Medium

RESULTS	
Best lap	12.5 s
Average lap	12.76 s

FRONT SUSPENSION

Anti-roll bar	1.3 mm
Arms	Long / Hard
Axle height: steering block shims	New R12 Steering blocks.
C-hubs	Hard
Camber	-1 degrees
CAMBER LINK	
Inner mount spacers	0
Inner stud spacers	2.0 mm
Outer stud spacers	1.0 mm
Differential height	High
Downstop	5
FF mount	Kit
FF mount inserts	0.5 out
FR mount	Kit
FR mount inserts	0.5 out
Ride height	5
ROLL CENTER	
FF mount shims	2 mm
FR mount shims	2 mm
SHOCKS	
Arm mount spacers	0 mm
Arm mounting hole	B - Bottom
Tower mount spacers	2.0 mm
Tower mounting hole	3 - Mid-out
Steering blocks	Hard
STEERING LINK	
Inner stud spacers	0.5 mm
Outer stud location	2 - Back
Outer stud spacers	2.0 mm
Toe	-1 degrees
Tower	-3mm
TRACK	
Wheel hexes	+0 mm
Wheel shims	0 mm
Wheelbase: arm spacers - F/R	2.5 mm

NOTES I measure my droop settings with a ride height gauge. My ride height is 5mm and I raise the car to 6mm and set the droop screw accordingly. This gives me 1mm of up travel.

REAR SUSPENSION

Anti-roll bar	1.3 mm
Arms	Long / Hard
Camber	-1.5 degrees
CAMBER LINK	
Inner mount spacers	0
Inner stud spacers	2.0 mm
Outer stud spacers	3.0 mm
Differential height	High
Downstop	4
Hubs	Hard
RF mount inserts	2.0 out
RF mounts	Kit
Ride height	5
ROLL CENTER	
RF mount shims	2 mm
RR mount shims	2 mm
RR mount	Kit
RR mount inserts	1.0 in
SHOCKS	
Arm mount spacers	0 mm
Arm mounting hole	B - Bottom
Tower mount spacers	2.0 mm
Tower mounting hole	1 - Inside
Tower	-3mm
TRACK	
Wheel hexes	+0
Wheel shims	1.0 mm
Wheelbase: arm spacers - F/R	0/ 2.5 mm

NOTES I set my droop the same way as the front, except I raise the car to 7mm. This gives me 2mm of up travel.

SHOCKS

	FRONT	REAR
Oil weight	60 wt	37.5 wt
Pistons	Kit	Kit
Rebound	0 %	0 %
Shafts	Kit	Kit
Shock cap hole	Closed	Closed
Springs	0.28g Green	0.24g Pink
Shock oil brand	Team Associated	

DIFFERENTIALS

	FRONT	REAR
Diff type	Spool	4-gear
Diff fluid	–	3,000 cst
Diff fluid brand	Team Associated	

DRIVETRAIN

Drive ratio - final	4.75
Drive ratio - internal	1.9
Driveshafts - front	40mm DJ CVD
Driveshafts - rear	42.5mm CVD
Gear pitch	64
Pinion	40 teeth
Spur	100 teeth

NOTES Keep the belts as free as possible without skipping under breaking or initial throttle.

BODY & CHASSIS

Battery position	**Neutral**
Body	**Bitty Designs Hyper**
Body posts - rear	**Horizontal**
Body posts - rear height	**High**
Body to bumper distance	**10 mm**

FLEX

Chassis	**Aluminum 2.0mm**
Flex adjustment plate	**No plate**
Front top deck	**Kit**
Front top deck screws	**2 rear screws only and not very tight. Titanium screws as well.**
Motor mount screws	**All 5 - stiffest**
Rear top deck	**Kit**
Rear top deck screws	**All screws, Titanium**
Rear wing	**Kit**
Weight: total	**1320 g**
Weights	**None**

NOTES I mount the Bitty Designs Hyper 3mm forward and use small blocks of foam glued to the foam bumper to fill the gap between the body and bumper. I do the same under the hood so that it rests on the front shock tower. This prevents the fenders from cracking if you roll the car over a few times.

TIRES

	FRONT	REAR
Tire brand / type	**Hudy**	**Hudy**
Tire compound	**27**	**27**
Tire glue diameter	**60 mm**	**56 mm**

Tire additive - F/R	**SXT 3.0**
Tire additive timing - F/R	**10**
Tire prep - F/R	**Clean the tires after every run(I prefer brake cleaner) Coat the entire rear tire and 3/4's of the front from the inside out. Wipe the tires dry after approximately 10min and avoid doing burn outs on any supplied burn out table. Place the car on the track as close to the drive line as you can.**

NOTES Sand the glue on the front tires and reapply every couple runs or as necessary. As the glue breaks down, the car will start to feel "tippy" or very edgy.

ELECTRONICS

Battery brand	**Reedy**
Battery C rating	**120**
Battery capacity	**6000 mAh**
Battery model	**Reedy Zapper LCG**
ESC brand	**Hobbywing**
ESC model	**XR10**
Motor brand	**Hobbywing**
Motor model	**Just Stock FTM spec 17.5**
Radio brand	**Sanwa/Airtronics**
Radio EPA steering	**100 %**
Radio EPA throttle	**100 %**
Radio model	**M12S**
Receiver brand	**Sanwa/Airtronics**
Receiver model	**482**
Steering servo brand	**Spektrum**