PRO-COMP





#0913 INTIMIDATOR SE3 RACING KIT



760-B Crosspoint Drive Denver, NC 28037 v.customworksrc.com



REQUIRED READING... UNDERSTAND THIS MANUAL!

Thank You and Congratulations on purchasing the **INTIMIDATOR SE3!** Within this kit you will find a race winning car with over 25 years worth of **CUSTOM WORKS** design and quality. In order for you to realize this race car's winning potential it is important to follow the written text along with the pictures included. The steps required to build this car are very easy, as long as you read before you build.

The instructional format for building this car is to open each bag in alphabetical order. Each bag of parts will be broken down into "Steps" thru the manual. All parts and hardware needed to complete all steps for each separate bag, will be found in each individual bag. There is no need to steal screws from other bags. In the rare event you need to look in a different bag for a certain part, it will be noted clearly in the instructions.

Considering the various dirt or clay surfaces that Dirt Oval cars are raced on today, the Intimidator SE3 has been designed to be competitive on high bite clay with rubber or foam racing tires. The instructions will build the kit using the most verastale set-up Custom Works has found in testing on different types of tracks, however there are various other suspension configurations available to you that you may find more suitable for your local track. For updates and more proven set-ups login to CustomWorksRC.com.

All hardware (screws, washers, nuts, etc...) are referred to by size and type in the instructions. To help clarify which screw or nut the instruction is calling for refer to the HARDWARE REFERENCE supplement. The size of the screw or nut should match the "shadow" of the same piece very closely.

Screw ID's are: FH=Flat Head BH=Button Head SH=Socket Head SS=Set Screw

BUILDING TIPS:

-Parts are made with tight tolerance and held to the side of a "snug" fit as wear is expected over time. Try as we may, occasionally a burr may remain in a part and fit more tightly than desired. It is ok to use 400 Grit Sandpaper or a .125" drill to SLOWLY relieve a part from time to time. Suspension components should always pivot and swivel freely but not sloppily.

-Using some type of thread locking fluid is suggested for all parts where metal screws thread into other metal parts. We suggest using a lite setting strength thread lock for the reason you may want to take the screw out one day. Remember it only takes a very small amount to secure the screw.

-Do <u>NOT</u> use power screwdrivers to drive screws into parts. The fast rotation speed can melt and strip plastic parts or cross-thread into the aluminum parts.

-Lightly sand the edges of graphite pieces using a medium grade sandpaper to avoid splinters. Run a thin bead of Super Glue around the edges to give pieces greater durability.

SUGGESTED TOOLS

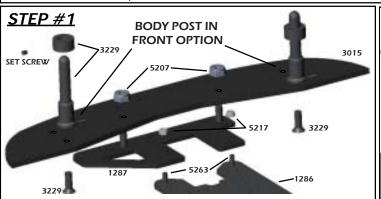
400 Grit Sandpaper Hobby Scissors Small Needle Nose Pliers Wire Cutters X-Acto Knife Phillips Head Screw Driver

Blue Loctite 3/16" Wrench

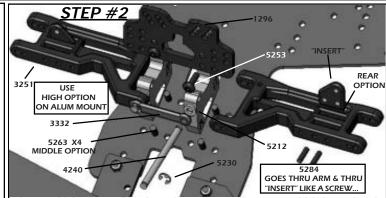
Front Suspension







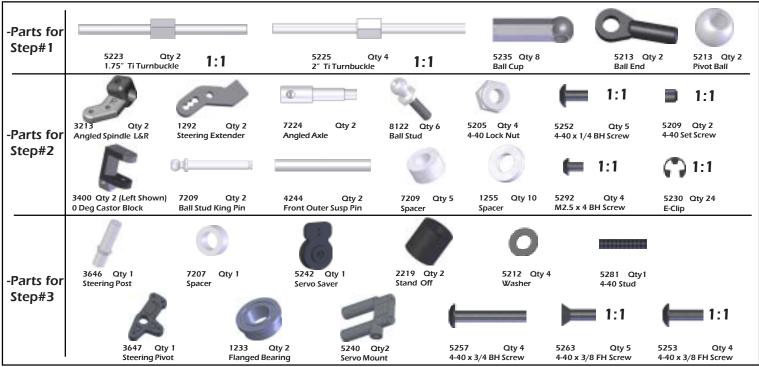
- Attach the 1287 Front Clip to the 1286 Chassis using 5263 Screws and 5217 Locknut.
- Mount the 3012 Kydex Bumper to the Front Clip using 3229 Screws and 5207 Locknuts.
- Fasten the 3229 Body Posts to the Bumper as shown.



- Insert 4240 Inner Pin thru the parts as shown and high option in the 2320 Susp Mount. Retain 4240 pin using 5230 E-Clips.
- Attach the 1296 Front Tower using (2) 5253 Screws.
- Fasten the suspension assembly to the Chassis using 5263 Screws in the middle width location.

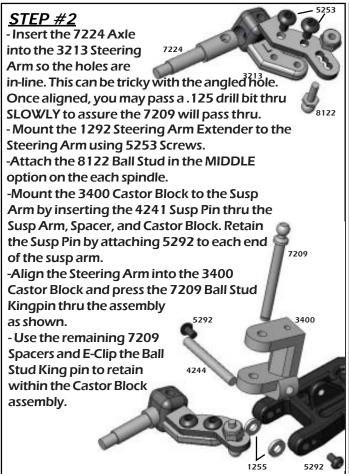
Steering Components

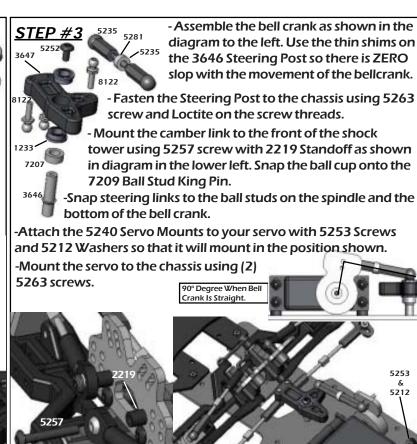






- Press the 5213 Pivot Ball into the Ball End.
- Thread the 5235 Ball Cups and 5213 Ball End onto the ends of the 5223 Turnbuckle.
- Press the 5214 Pivot Ball into the Ball End.
- Thread the 5235 Ball Cup and 5124 Ball End onto the ends of the 5223 Turnbuckle.



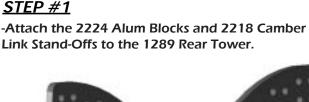


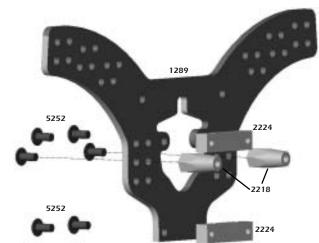
*CASTOR BLOCKS SHOULD INCLINE TOWARD CENTER O CAR WHEN AXLE IS PARALLEL

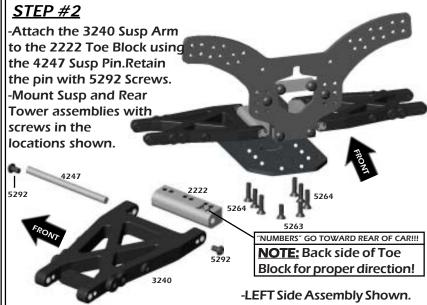
TO THE CHASSIS SURFACE

Bag C Rear Suspension



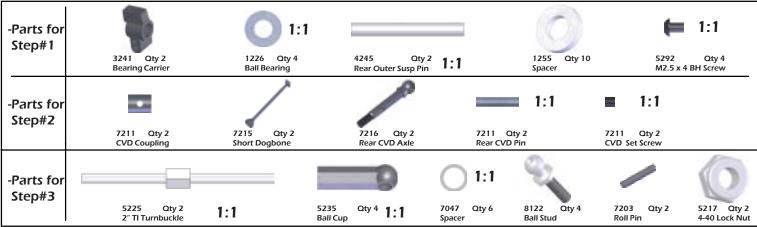


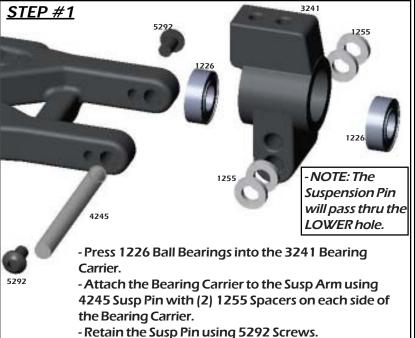


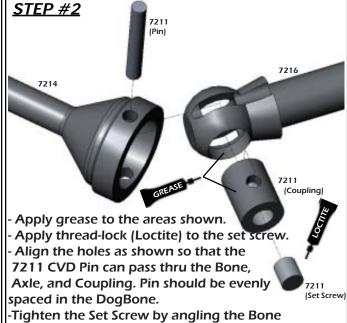


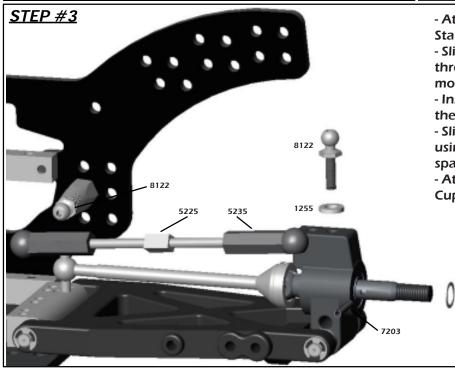
Bag D Rear Suspension











- Attach the 8122 Ball Stud to the Camber Link Stand-Off.

and Axle so the set-screw is able to be tightened.

- Slide a 1255 Spcaer onto the Ball Stud and thread into the 3241 Bearing Carrier in the outer most hole.
- Insert the CVD assembly by sliding the axle thru the bearings.
- Slide (4) 7047 Shims onto the axle and retain using the 7203 Roll Pin. Pin should be evenly spaced in Axle.
- Attach the Camber Link by snapping the Ball Cups onto the Ball Studs.

7047

TYPICALLY FOR THE ENTIRE AXLE (2) OF THE THICK AND (2) OF THE THIN #7047 SHIMS WILL SUFFICE FOR PROPER AXLE SHIMMING.

Diff Assembly







- · Slide a 4360 Thrust Washer onto the Diff Bolt.
- Apply a thick layer of Black Grease to the Thrust Washer, press (6) 4359 Thrust Balls into the Black Grease.
- Slide the other Thrust Washer on the Diff Bolt and insert it into the 4365 Right Outdrive.
- Press (1) 1229 Bearing into the Outdrive.

trans gears!

- Put (1) 4358 Diff Ring on the Outdrive, apply Diff Lube as shown.

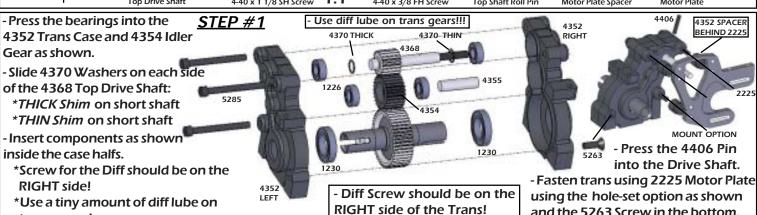


- Press (1) 1229 Bearing and the (12) 4363 Diff Balls into the Diff Gear.
- Put (1) 4358 Diff Ring onto the 4364 Left Outdrive, apply Diff Grease as shown.
- Install the 4362 Diff Spring and 4361 T-nut into the Outdrive.
- Carefully slide the diff assembly together so the Diff Bolt passes thru the entire assembly and threads into the T-nut.
- -Screw the Diff Bolt into the T-nut until you feel the Diff Spring fully compress. DO NOT OVERTIGHTEN!!!
- Back the Diff Bolt off EXACTLY 1/8 of a turn. Diff motion should be smooth and the Outdrives will turn in opposite directions.

and the 5263 Screw in the bottom.







Bag G

Spur Gear Assembly



-Parts for Bag G







1:1





1:1

2228 Qty 1 Slipper Eliminator 4881 Oty 1 81T 48P Spur Gear 5252 Qty 1 4-40 x 1/4 BH Screw

2228 Qty 1 Spacer 5245 Qty 1 5-40 Locknut



- Press the 2228 Slipper Eliminator onto the Top Drive Shaft so that the Roll Pin keys into the grooves.
- Secure the assembly to the Top Shaft with the 2228 Spacer and the 5245 Locknut. Do NOT overtighten the nut on the Top Shaft!
- Mount the 4881 Spur Gear so the flat side faces AWAY from the transmission. Secure using (2) 5252 Screws.

Bag H Transmission Mount













3229



Qty 2



3229

Set Screw

Qty 2





Qty 2

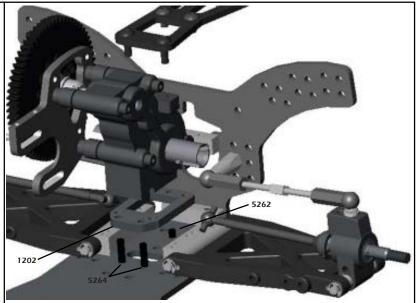
1290 Qty 1 INT SE Trans Brace 1202 Oty 1 Trans Spacer 5264 Qty 2 4-40 x 1/2 FH Screw 5253 Qty 6 4-40 x 3/8 FH Screw 5262 Qty 1 4-40 x 1/4 FH Screw

3229

8-32 x 1/2 FH Screw

4-40 Lock Nut



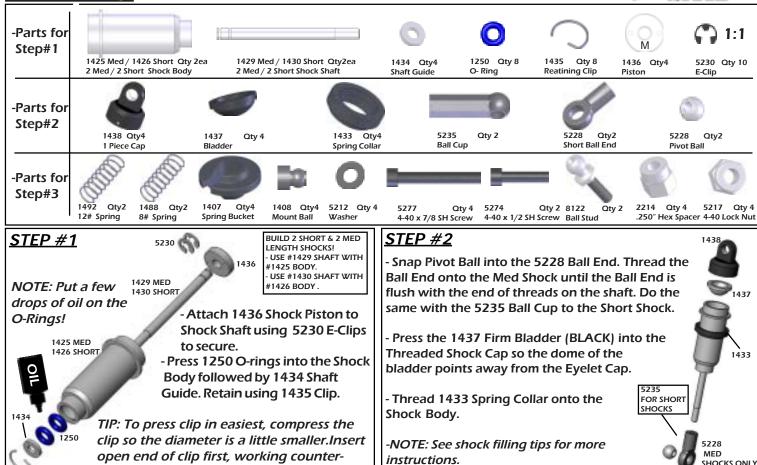


- Mount the 1202 Trans Spacer to the Chassis using the 5262 Screw where shown.
- Secure the Trans to the Chassis using (2) 5264 Screws thru the 1202 Trans Spacer as shown.
- Attach the 1290 Trans Brace to the Trans and Rear Bulkhead using 5253 Screws.
- Mount the Trans Brace to the Trans and Rear Bulkhead using 5253 Screws.
- -NOTE: Align the dogbone shafts into the outdrives of Trans as you mount the trans!

Shock Bac

Shock Assembly





Filling Shocks: Steps 1-4 SHOCK FILLING INSTRUCTIONS: Setting Shock Rebound: Steps 5-8

1) Holding the shock upright, fill with oil until the top of the body. 0//

40 wt suggested starting point. 2) Slowly move the shaft up and down several times to allow air bubbles to escape to the top.

clockwise to the bent end as shown.



oil to the top of the shock body.



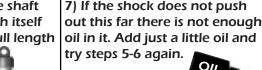
Body until it is hand tight. Oil should seep 👩 out of the bleed hole in the Threaded Cap.

3) Refill with |4) Thread the Eyelet Cap |5) Move the shock shaft in and out a assembly onto the Shock | few times and then push it all the way in. It should be easy to push the shaft in until the eyelet hits the body.



SHOCKS ONLY

6) Then the shaft should push itself out to its full length slowly.



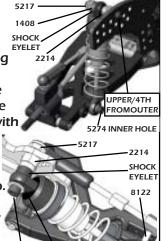
8) If the shockrebounds too fast, or you cannot push the shaft in until the eyelet hits the body, there is too much oil. Loosen the cap about 2 full turns and pump out a small amount of oil by pushing the shaft in. Retighten the cap and try steps 5-6 again.

STEP #3

Slide 1488 Chrome Springs on the Med Shocks, the 1492 Orange Springs on the Short Shocks. Secure using the 1407 Spring

REAR SHOCK: Insert 5277 Screw thru hole shown in rear tower. Thread 2214 onto the screw. Place shock over screw and retain with Shock Eyelet and Nut. Fasten the shock to the arm using 5274 Screw.

FRONT SHOCK: Insert 5277 Screw thru 5212 Washer and then thru the Shock Cap. Slide the Shock Eyelet over the screw and tighten the 2214 to it. Attach to the tower by holding the 2214 and fastening with the Locknut. Thread the 8122 to the arm as shown and snap the shock ball cup to it.



Bag Dirt Modified Body Mounts (OPTIONAL for LateModel)



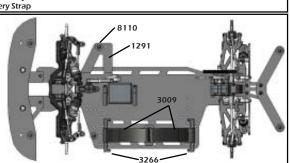
Qty 8

4-40 x 3/8 FH Screw



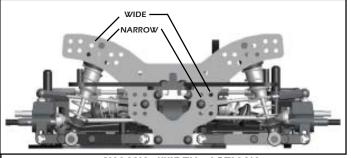
STEP #1

- Attach 1291 SE Side Mount onto the chassis as shown using 5263 Screws and 5217 LockNuts.
- Mount the 8110 Body Posts in the rear/right most holes on the Chassis and Side Mount as shown.
- Slide the 3229 Post Collar onto the Body Posts, use the 3229 Set Screws to hold the collar where needed.
- Insert the 3266 Lipo Locator thru the small loop on each 3009 Battery Strap. Mount to chassis using 5263 Screws.



INT SE Chassis Design Explaination

- Follow these diagrams to better adjust and utilize your INT SE for use as a LateModel or Dirt Modified.



CHASSIS WIDTH OPTIONS:

- ALL PICS SHOW NARROW POSITION (STOCK)

- WIDEN RIGHT REAR FOR MORE AGGRESSIVE CORNER ENTRY. - WIDEN BOTH SIDES FOR MAX STABILITY, BOTH FRONT AND REAR TOGETHER.

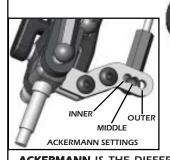
- WIDEN RIGHT FRONT FOR HIGH BITE FLAT TRACKS OR TO REDUCE RF TIRE WEAR AND TRACTION.

- PULL LF IN TO TIGHTEN CAR ON EXIT.

- EXTEND LF OUT TO LOOSEN CAR ON EXI

MENT BY MOVING THE LF LOCATION ONLY.

- WIDEN FRONT ONLY FOR STABILITY.

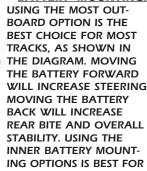


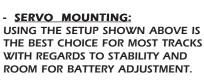
ACKERMANN IS THE DIFFERENCE THE FRONT TIRES ROTATE DURING STEERING INPUT. TYPICALLY YOU CAN USE THIS ADJUST-

- USING THE "FORWARD" SETTING WILL PROVIDE THE MOST ACKERMANN (LF OUT-TURNS THE RF). THIS WILL HELP TURN FROM THE CENTER OFF THE CORNER AND/OR MAKE THE CAR

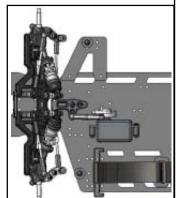
USING THE "REAR" ADJUSTMENT WILL REDUCE ACKERMANN AND ALLOW THE RF TO TURN THE SAME AS THE LF. THIS WILL HELP THE CAR TURN INTO THE CORNER QUICKER BUT COULD BE TIGHT OFF THE CORNER.

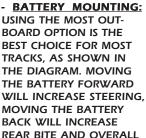
- WHEELBASE OF THE INT SE IS DETER-MINED BY THE MOUNTING LOCATION OF THE REAR END. SHOWN HERE IS THE LONG SET-UP, THE ENTIRE REAR ASSEM-BLY MOVES FORWARD TO CREATE MORE AGGRESIVE CAR ON SMALL DRY TRACKS.





USING A "LOW PROFILE" SERVO YOU CAN MOUNT THE SERVO OFFSET TO INCREASE LEFT SIDE WEIGHT. ALSO YOU WILL NEED TO FLIP THE 3647 STEERING PIVOT OVER AS SHOWN ON THE RIGHT. THIS SETUP WORKS BEST FOR WELL PREPPED TRACKS.





LOW-BITE CONDITIONS.

CONGRATULATIONS!!! You have now completed the assembly process of your new Custom Works INTIMIDATOR SE3! In the next section of this manual you will find some basic setup hints and advice. It is important to remember that all tracks and racing surfaces are different. Therefore the suggestions we give you are general in nature and should by no means be treated as the only options.

MAINTENANCE:

Occasionally dirt will get into the moving and pivoting locations in your car. It is best to periodically clean you car to keep all the suspension components moving freely. Read the tips below to keep your car running at its best!

- Begin by removing the majority of the dirt using a small brush, toothbrush, or compressed air.
- Compressed air is ok to use, be mindful to not FORCE the dirt into the radio gear, transmission, bearings, or air filter. Typically these items only have dirt on them, hitting the dirt with the compressed air puts dirt *IN* these parts!
- Tires, either foam or rubber are best cleaned using water or cleaners like Simple Green (TM). Simple Green also does a great job cleaning car parts as well. Lightly spraying car parts (NOT radio components, transmission, air filter, or bearings) with Simple Green and blowing off with compressed air or wiping the parts using the paint brush is a great way to clean in a hurry.
- Another R/C friendly cleaner is WD-40 (TM). After the car is clean, very lightly spray the car components and bearings (NOT radio components, transmission, or air filter). Use your brush or compressed air to remove the extra WD-40. This will lube your bearings and leave a protective coating on the parts making it easier to remove dirt later.
- Differential Maintenance is needed when the action of the diff feels "notchy". Usually cleaning the diff parts, re-sand the thrust and diff plates with 400 paper, and lube appropriately will be all that is needed to bring back to new. Ignoring your differential will lead to handling woes and increase transmission temps, which will cause part failure.

TUNING TIPS: These are some general guidelines for optimizing handling performance. None of these "tips" are EVER set in stone. On any given day this manual or any chassis engineering book or guru can be proved wrong by the stop watch. A good way to approach chassis set-up is to try one change, practice it, think how the car felt different from before, and compare lap times from the stop watch.....this will never fail.

Car Pushes (understeers):

- Decrease Spoiler
- Heavier Rear Spring
- Softer Front Spring
- Use Rear Sway Bar
- Try Softer Front Compound Tire
- Try Harder Rear Compound Tire
- Lower Front Ride Height
- Raise Rear Ride Height
- Thread Shock Collar UP on Right Front
- Thread Shock Collar DOWN on Right Rear
- Decrease Rear Toe
- Decrease Castor
- Add Rear Toe Stagger or Increase the difference

Car Is Loose (oversteers):

- Increase Spoiler
- Softer Rear Spring
- Heavier Front Spring
- Use Front Sway Bar
- Try Harder Front Compound Tire
- Try Softer Rear Compound Tire
- Raise Front Ride Height
- Lower Rear Ride Height
- Thread Shock Collar DOWN on Right Front
- Thread Shock Collar UP on Right Rear
- Increase Rear Toe
- Increase Castor
- Decrease Rear Toe Stagger or Decrease the difference

Car Is Erratic:

- Bent Suspension Pins: Remove shocks to check free movement.
- Bound Ball Joint: Should spin free on balls while mounted to the car.
- Bent or Loose Camber Links
- Wore out Bearings or Completely Seized Bearings
- Chunked Tire: Check to see if Foam or Rubber Tire is still glued to wheel.
- Loose Screws: Especially Chassis Screws, add Blue Loctite to prevent.
- Shocks: Either Bound-up or Out of Oil. Must swivel freely on mounts.
- Foreign Objects: Unlucky Dirt/Stones preventing Suspension or Steering Movement.
- Blown Differential
- Radio Problem: Bad Servo, Weak Servo Saver Spring, Transmitter Pot blown.

SET-UP GUIDELINES:

When looking for the "perfect set-up" it is important to remember 2 things...

- 1) Keeping things simple is best.
- 2) As you are making your set-up change, the track is changing too! Ask a local racer what the track usually does from begining to end, especially day to night.
- Start your car's ride height with it equal at all four corners to start. Use the shock collars to adjust ride height by measuring the distance under the chassis when the car is sitting on a FLAT & LEVEL surface.
- Shock collars can only jack weight and adjust the car's handling when the car makes ALL 4 shocks squat when the car is set down. Use the RF shock collar to adjust how the car ENTERS the corner. Use the RR shock collar to adjust how the car exits the corner ON-POWER. Use the LF shock collar to make the car turn in less, and off the corner more.
- It is best to have a little bit of brake drag when you let off the gas, this will allow for a more controlable car in ALL conditions. Increasing how much the brake drags will make your car turn into the corner harder. 10-20% of Drag Brake is generally a good start for most speed controls.

SET-UP GLOSSARY:

<u>Caster:</u> Angle of the kingpin in relation to a vertical plane as viewed from the side of the car. Increasing the angle will make the car more stable out of the turn and down the straights and increase steering entering a turn. Decreasing the angle will make the car feel more "touchy" at high speeds and help steering while exiting the turn.

<u>Camber Gain:</u> Angle of the Camber Link relative to the Suspension Arm. Lowering the camber link on the shock tower OR raising the camber link on the castor block will INCREASE the camber angle of the tire when the suspension is compressed. Raising the camber link on the shock tower OR lowering the camber link on the castor block will DECREASE the camber angle of the tire when the suspension is compressed. There is not a "correct" set-up and once again too much of anything is generally bad. This will help change the "feel" of the car thru the turns.

<u>Camber Link Length:</u> Comparing this to the length of the Suspension Arm from each pivot point and keeping the Camber the same, making the link *shorter* will decrease traction for that corner of the car while making it *longer* will increase traction for that corner of the car. Once the camber link is equal to or greater than the Suspension Arm pivots, the gain of traction ends. Also a shorter camber link will increase camber gain and a longer decrease camber gain.

Shock Angle: Leaning the shock toward the car is effectively like changing to a *softer* spring. Standing the shock closer to vertical is effectively like changing to a *stiffer* spring. Try when the car is working well and when one spring change is TOO much for your set-up.

Ride Height: Check by pushing the chassis down once or twice to simulate bumps on the track. Having the front end *higher* than the rear will make the car increase rear traction especially out of the turn. Having the front end *lower* than the front will make the car increase front traction especially entering the turn. Generally its safe to start the car with the ride heights even.

Rear Toe-In: Front edge of car tires point *toward* the chassis as viewed from above the car. Increasing the angle toward the car will increase rear traction while decreasing front traction. Decreasing the angle will do the opposite.

Rear Toe Stagger: Difference in the amount of Rear Toe-In among the rear tires. Typically used only on high bite tracks with MORE toe-in on the Left Rear tire than the Right so the rear of the car helps turn the car LEFT under acceleration.

<u>Wheelbase</u> (Front End): Wheelbase is the distance between the front and rear axles. Running the entire front end assembly in the forward position makes the wheelbase longer and therefore more stable on long/fast tracks with flowing turns. Running the entire front end assembly in the rear position make the wheelbase shorter and therefore more suitable for short-tracks where you are constantly turning.

<u>Wheelbase (Rear End):</u> This adjustment uses the plastic spacers on the kingpin the rear bearing carrier rides on. With the spacers in front of the carrier it will lengthen the wheelbase but will increase steering. If the spacers are behind the carrier it will shorten the wheelbase but increase rear traction. This is completely backwards from how it works for the Front End only because in the rear of the car you have the weight of the motor and the torque it creates. Shortening the wheelbase here makes more of the car hang over the rear tires and promotes more weight transfer.

<u>Final Drive Chart:</u> The chart provided below gives you the final drive of the motor to spin the axle 1 revolution. This chart is NOT just the pinion and spur, but has the transmission ratio included as well.

- To determine the final drive in your car:
- 1) Divide the Spur Gear by the Pinion Gear, which equals a "Ratio".
- 2) Multiply the "Ratio" by the "Transmission Ratio" which will equal your "Final Drive".

Transmission Ratio = 2.4 for this car.

64 Pitch				Spur Gear				
Pinion	78	81	85	88	93	96	100	104
16	11.70	12.15	12.75	.13.20	13.95	14.40	15.00	15.60
17	11.01	11.44	12.00	12.42	13.13	13.55	14.12	14.68
18	10.40	10.80	11.33	11.73	12.40	12.80	13.33	13.87
- 19	9.85	10.23	10.74	11.12	11.75	12.13	12.63	13.14
20	9.36	9.72	10.20	10.56	11.16	11.52	12.00	12.48
21	8.91	9.26	9.71	10.06	10.63	10.97	11.43	11.89
22	8.51	8.84	9.27	9.60	10.15	10.47	10.91	11.35
23	8.14	8.45	8.87	9.18	9.70	10.02	10.43	10.85
24	7.80	8.10	8.50	8.80	9.30	9.60	10.00	10.40
25	7.49	7.78	8.16	8.45	8.93	9.22	9.60	9.98
26	7.20	7.48	7.85	8.12	8.58	8.86	9.23	9.60
27	6.93	7.20	7.56	7.82	8.27	8.53	8.89	9.24
28	6.69	6.94	7.29	7.54	7.97	8.23	8.57	8.91
29	6.46	6.70	7.03	7.28	7.70	7.94	8.28	8.61
30	6.24	6.48	6.80	7.04	7.44	7.68	8.00	8.32
31	6.04	6.27	6.58	6.81	7.20	7.43	7.74	8.05
32	5.85	6.08	6.38	6.60	6.98	7.20	7.50	7.80
33	5.67	5.89	6.18	6.40	6.76	6.98	7.27	7.56
34	5.51	5.72	6.00	6.21	6.56	6.78	7.08	7.34
35	5.35	5.55	5.83	6.03	6.38	6.58	6.86	7.13
36	5.20	5.40	5.67	5.87	6.20	6.40	6.67	6.93
37	5.06	5.25	5.51	5.71	6.03	6.23	6.49	6.75
38	4.93	5.12	5.37	5.56	5.87	6.06	6.32	6.57
39	4.80	4.98	5.23	5.42	5.72	5.91	6.15	6.40
40	4.68	4.86	5.10	5.28	5.58	5.76	6.00	6.24
41	4.57	4.74	4.98	5.15	5.44	5.62	5.85	6.09
42	4.46	4.63	4.86	5.03	5.31	5.49	5.71	5.94
43	4.35	4.52	4.74	4.91	5.19	5.36	5.58	5.80
44 .	4.25	4.42	4.64	4.80	5.07	5.24	5.45	5.67
45	4.16	4.32	4.53	4.69	4.96	5.12	5.33	5.55
46	4.07	4.23	4.43	4.59	4.85	5.01	5.22	5.43

- Gearing choice can vary greatly depending on track size, surface type, amount of traction, you motor and driving style. For starters consult your local hobby dealer or fellow racer at your local track for the ideal gear choice for your application.

- CHECK OUT CUSTOMWORKSRC.COM for setup sheets and winning car set-ups!

	ctup 3	HICCI3	and v	VII II III I	iy cai .	set-up	' 3:	
48 Pitch				Spur Gear				
Pinion	- 66	68	70	72	75	78	81	84
12	13.20	13.60	14.00	14.40	15.00	15.60	16.20	16.80
13	12.18	12.55	12.92	13.29	13.85	14.40	14.95	15.51
14	11.31	11.66	12.00	12.34	12.86	13.37	13.89	14.40
15	10.56	10.88	11.20	11.52	12.00	12.48	12.96	13.44
16	9.90	10.20	10.50	10.80	11.25	11.70	12.15	12.60
17	9.32	9.60	9.88	10.16	10.59	11.01	11.44	11.86
18	8.80	9.07	9.33	9.60	10.00	10.40	10.80	11.20
19	8.34	8.59	8.84	9.09	9.47	9.85	10.23	10.61
20	7.92	8.16	8.40	8.64	9.00	9.36	9.72	10.08
21	7.54	7.77	8.00	8.23	8.57	8.91	9.26	9.60
22	7.20	7.42	7.64	7.85	8.18	8.51	8.84	9.16
23	6.89	7.10	7.30	7.51	7.83	8.14	8.45	8.77
24	6.60	6.80	7.00	7.20	7.50	7.80	8.10	8.40
25	6.34	6.53	6.72	6.91	7.20	7.49	7.78	8.06
26	6.09	6.28	6.46	6.65	6.92	7.20	7.48	7.75
27	5.87	6.04	6.22	6.40	6.67	6.93	7.20	7.47
28	5.66	5.83	6.00	6.17	6.43	6.69	6.94	7.20
29	5.46	5.63	5.79	5.96	6.21	6.46	6.70	6.95
30	5.28	5.44	5.60	5.76	6.00	6.24	6.48	6.72
31	5.11	5.26	5.42	5.57	5.81	6.04	6.27	6.50
32	4.95	5.10	5.25	5.40	5.63	5.85	6.08	6.30
33	4.80	4.95	5.09	5.24	5.45	5.67	5.89	6.11
34	4.66	4.80	4.94	5.08	5.29	5.51	5.72	5.93
35	4.53	4.66	4.80	4.94	5.14	5.35	5.55	5.76



DATE			-	rd Packed □Loose Dirt phalt □Concrete
				ed True Oval Tri-Oval
CLASS:				
TRACK:		NGTH: Ti		High Medium Low
RIGHT FRONT SUSPENSION	LEFT	COLLAR _	SHOC	:KS
	AMBER:	LENGTH		A A .
	AMBER LINK LOCATION			
OUTER DINNER SHOCK POSITION: TOP DMID DBOT	OUTER DINNER	4		
CAMBER RATE	CAMBER RATE			SHOCK LENGTH
SHIMS:	SHIMS:	LEET EDON'T C	11061/	- 1
KINGPIN	KINGPIN	LEFT FRONT S BODY LENGTH		RIGHT FRONT SHOCK ODY LENGTH
INCLINE 00°	INCLINE	SHORT DMED DLO	-	SHORT MED LONG
□ ANGLED □ □ ANGLED □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	□ANGLED	SHAFT LENGTH	· · · ·	HAFT LENGTH
		SHORT DMED DLO	-	SHORT MED LONG
ACKERMANN: ☐ ON SPINDLE SUSPENSION POSITION ACKER	RMANN: ON SPINDLE	SPRING:		PRING:
DINNER DMIDDLE DOLLTER RF: DOUTER DMIDDLE DINNER	ER MIDDLE DOUTER	OIL: PISTON	۷: O	IL: PISTON:
LF: LIOUTER LIMIDDLE LINNER		BLADDER:	BI	LADDER:
FRONT AXLE: CASTOR: 0° KICK-UP: 025° CASTOR: 0° 020° HIGH 020° L° 0+5° 0.	0° FRONT AXLE: -5° □STOCK	LENGTH:	LE	ENGTH:
	-10° DEXTENDED	COLLAR:		OLLAR:
	XLE SHIMS:	LEFT REAR SH		RIGHT REAR SHOCK
	VIT 3UIWO:	BODY LENGTH SHORT DMED DLO	-	ODY LENGTH □SHORT □MED □LONG
REAR SUSPENSION			· · · · ·	
WHEELBASE DLONG DSHORT	RIGHT	SHAFT LENGTH SHORT DMED DLO	-	haft length
I I CAMBERTINK TO CATION I	AMBER LINK LOCATION	SPRING:		PRING:
	INNER DOUTER	OIL: PISTON	۸: م	PISTON:
	THER COLER	BLADDER:	В	LADDER:
		LENGTH:	LE	ENGTH:
		COLLAR:	C	OLLAR:
		WEIGH	T & CHA	SSIS HEIGHTS
HUB SPACING: SWAY BAR:□NONE □.063" □.078"	HUB SPACING:	j.		1
HUB SPACING: SWAY BAR: NONE 0.063" 0.078" REAR WIDTH (NARROW OR WIDE)	HUB SPACING: SHADE IN 4 SPACERS DDDDDDDR	a differ	SERVO LO	
CAMBER: RR:RR:	AMBER:		□ AS SHO	20 10 200
	DE-IN:		OFFSET	4
WHEEL SPACERS: ANTI-SQUAT SHIMS: W	HEEL SPACERS:	· 600	100	Toron Con
LR: RR:			P III	
-SHADE IN MOUNTING LOCATIONS ON SUSPENSION ARMS, BEARING CARRIER AN	D SHOCK TOWER.	· 613		SC
	SHADE IN AREAS OF TRACTION ADDITIVE AND	0	RE	C 3C
	DRAW IN TIRE GROOVES	W. L.		
COMPOUND DIAMETER INSERT		All and the second		
RF:		1 6	DATTEDY DO	SITION
LF:		DECIE//ED	BATTERY PO	
	LF RF	RECIEVER AS SHOWN		GI EED COTTINGE
RR:	LF NF			
LR:		CORNER WEIG	HTS.	CHASSIS HEIGHTS BY LOCATION:
TRACTION ADDITIVE:		LF: RF:	-	0
		LR: RR:		8 4
				MEASURED FROM:
	LR RR	OVERALL WEIGHT:		☐TOP OF CHASSIS ☐BOTTOM OF CHASSIS
				abottom of chaosis
MISC				
BATTERY TYPE: DLIPO DNIMH				
MOTOR:				
PINION:SPUR:				
BODY TYPE: MODIFIED LATE MODEL PART#				
SPOILER ANGLE:				
SPOILER LENGTH:				
WICKERBILL:				
BODY LOCATION FROM A BODY POST:				