

1:10 Scale 4WD Electric Off Road Competition Buggy Kit Manual

#90055 RC10B84 Classic Buggy Kit





Introduction

Thank you for purchasing this Team Associated product. This assembly manual contains instructions and tips for building and maintaining your new vehicle. Please take a moment to read through the manual and familiarize yourself with the steps. We are continually changing and improving our designs; therefore, actual parts may appear slightly different than the illustrations. New parts will be noted on supplementary sheets located in the appropriate parts bags. Check each bag for these sheets before you start to build.

Check www.rc10.com for the latest versions of our instruction manauls.

#RC10B84 Features

- Molded Height-Adjustable Gearboxes Front and Rear with Additional +2 Rear Gearbox for High-Grip Conditions
- Long-Arm Suspension Geometry: improves grip and predictability in all conditions
- Optimized Steering Bellcranks and Rack: improved bumpsteer control at all ride heights
- Chassis Bracing: Fine tune chassis flex characteristics with upper and lower chassis bracing front and rear
- Standard and HRC (High Roll Center) Rear Hubs Included
- Insert adjustable caster block with 0, +/-1, and +/-2 degree inserts included
- Forward and Back Motor Positions: used for further weight bias adjustment
- Highly Adjustable Battery Holder with Thumb Tabs: allows for easy battery removal and fine tuning of weight bias
- 2.5mm Thick Tapered 7075-T6 Aluminum Chassis with 10 Degrees of Kickup and Improved Departure Angle
- (90050 Only): Decoupled Slipper Clutch Included
- (90051 Only): Molded Ring and Pinion Gears Included
- Aluminum Center-Mounted Servo Mount
- Two heights Included for Rear Wing Mount
- 7-inch Rear Wing
- Low-Profile Body
- · Shock Tower Covers Front and Rear
- 3.5mm Turnbuckles and Ballcups
- 13mm Big-Bore Shocks

Additional

Your new RC10B84 Kit comes unassembled and requires the following items for completion (refer to AssociatedElectrics.com for suggestions):

- R/C two channel surface frequency radio system
- AA-size batteries for transmitter
- Electronic Speed Control ("ESC")
- Steering servo
- R/C electric motor
- Pinion gear, size determined by type/turn or kV of motor

- Battery charger (a peak detection charger, or LiPo compatible charger)
- 2 cell LiPo battery pack
- Polycarbonate specific spray paint
- Cyanoacrylate glue ("CA") (#1697)
- Thread locking compound (#1596)
- Tires and Inserts, Fronts and Rears

Other Helpful Items

- Silicone Shock Fluid (Refer to AssociatedElectrics.com for complete listings)
- FT Body Scissors (#1737)
- FT Hex/Nut Wrenches (#1519)
- FT Universal Tire Balancer (#1498)
- FT Dual Turnbuckle Wrench (#1114) Green Slime shock lube (#1105)
- FT Body Reamer (#1499)
- Shock Pliers (#1681) Needle Nose Pliers
 - FT Ballcup Wrench (#1579)
- Wire Cutters Hobby Knife
- Calipers or a Precision Ruler
 Soldering Iron



Hardware - 1:1 Scale View

Button Head (bhcs)	
	2x4mm (31510)
	2.5x5mm (31519)
	2.5x6mm (31520)
	2.5x8mm (31521)
	2.5x10mm (31522)
	3x4mm (91158)
	3x5mm (31530)
	3x6mm (31531)
	3x8mm (31532)
	3x10mm (25211)
	3x12mm (89202)
	3x14mm (25187)
	3x16mm (89203)
	3x18mm (2308)
	3x20mm (25188)
	3x22mm (25189)
	3x24mm (89204)
	3x30mm (91478)

Flat Head (fhcs)	
	2x3mm (91743)
	2.5x8mm (31472)
	3x5mm (31540)
	3x6mm (31541)
	3x8mm (25201)
	3x10mm (25202)
	3x12mm (25203)
	3x14mm (89208)
	3x16mm (25204)
	3x18mm (89209)

3x6mm (41089)

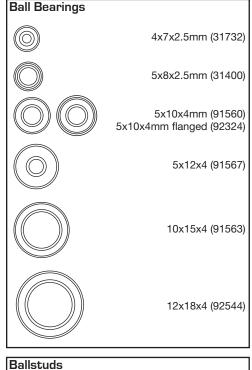
3x8mm (41096)

3x10mm (41090)

3x22mm (41095)

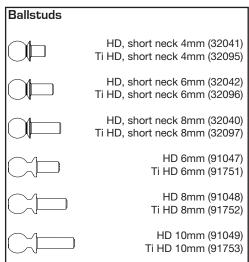
3x24mm (41097)

M3 Nut (91477)



	Nuts (lock/plain)
78)	
04)	
39)	
38)	
08)	
03)	
37)	

LP Socket Head (lp shcs)



Set Screws	
	3x2.5mm (31500)
	3x3mm (25225)
	3x6mm (81257)
	3x10mm (4671)
	3x20mm (91737)
	4x5mm (25226)

1.6 x 5mm (91611)

Cap Head (shcs)

M3 Alum. Locknut, Blue (31550)
M3 Locknut, Black (25215)

M3 Locknut w/Flange (25612)
FT 3mm Locknuts, Blue (25392)

M4 Locknuts:
Serrated Steel LP (91150)
Serrated Steel (Silver) (91826)
FT Aluminum (Blue) (31551)

Serrated Aluminum (Black) (91738)

Shims and Washers	
	5.5x0.5mm (31381)
	5.5x1.0mm (31382)
	5.5x2.0mm (31383)
	3x8mm Washer (89218)



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Notes



This symbol indicates a special note or instruction in the manual.



This symbol indicates the number of the same part that is required.



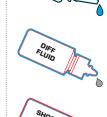
This symbol indicates the order within a step to assemble parts.



This symbol indicates there are optional FT parts available



This symbol indicates a Racers Tip.



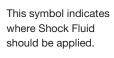
This symbol indicates where Diff Fluid should be applied.

This symbol indicates

where Thread Lock

Adhesive should be

applied. *not included





This symbol indicates where FT Silicone Grease should be applied.
*not included



This symbol indicates where FT Diff Lube should be applied.
*not included



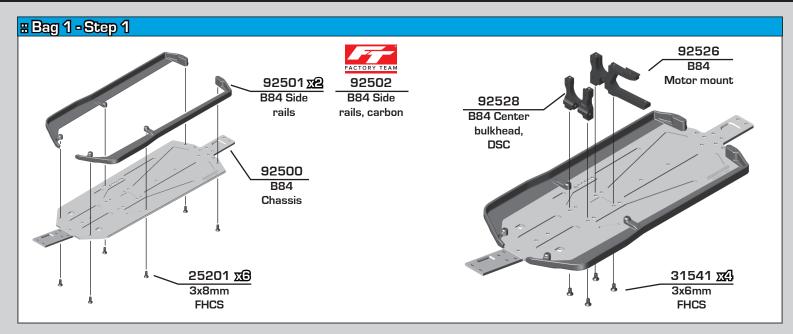
This symbol indicates where Black Grease should be applied.

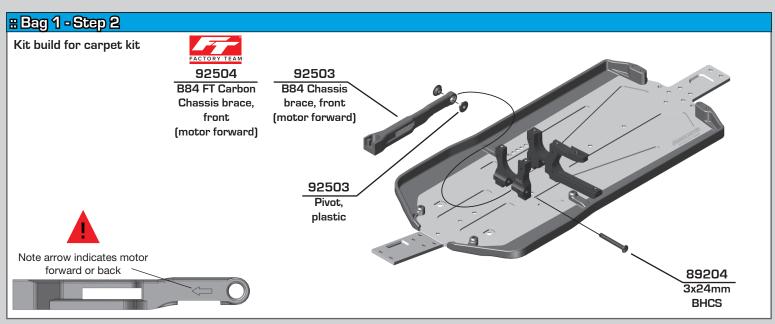


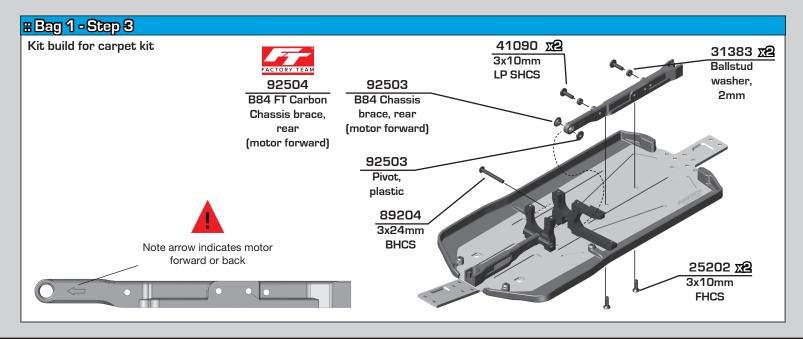
This symbol indicates where Green Slime can be applied.
*not included

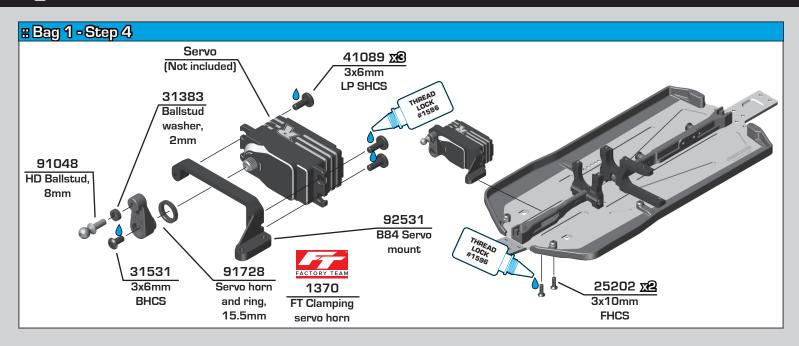


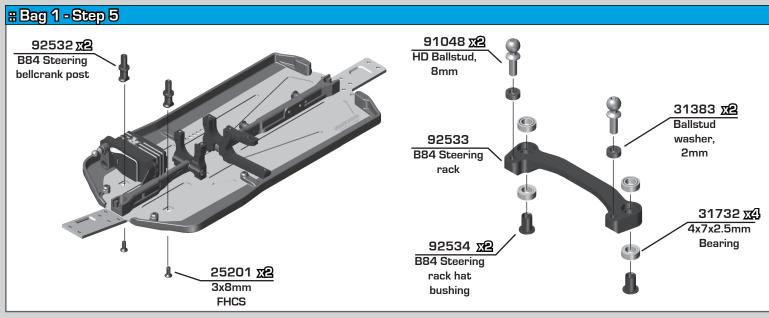
There is a 1:1 hardware foldout page in the front of the manual. To check the size of a part, line up your hardware with the correct drawing until you find the exact size. Each part in the foldout has a number assigned to it for ordering replacement parts.

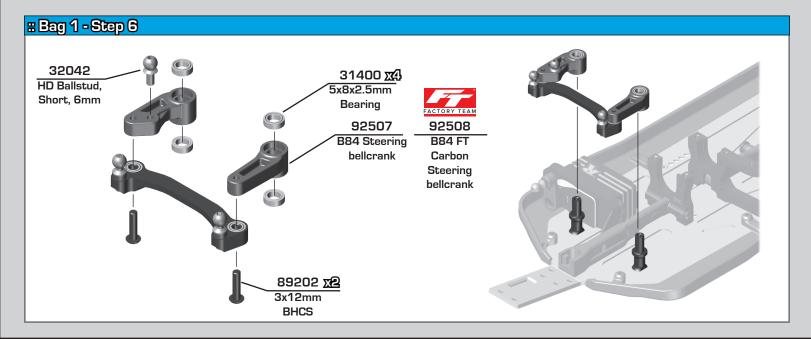


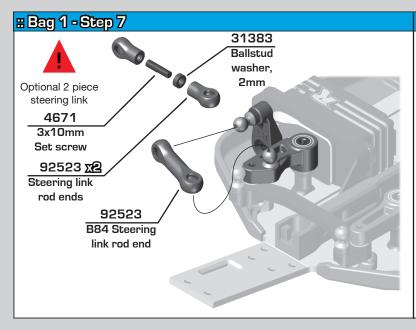


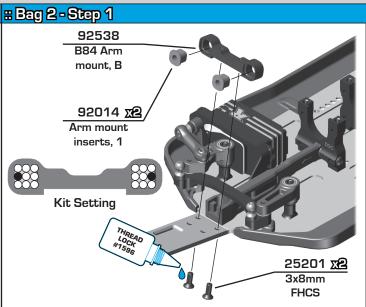


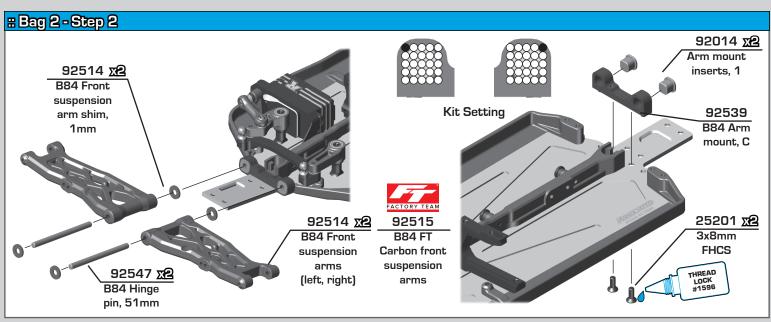


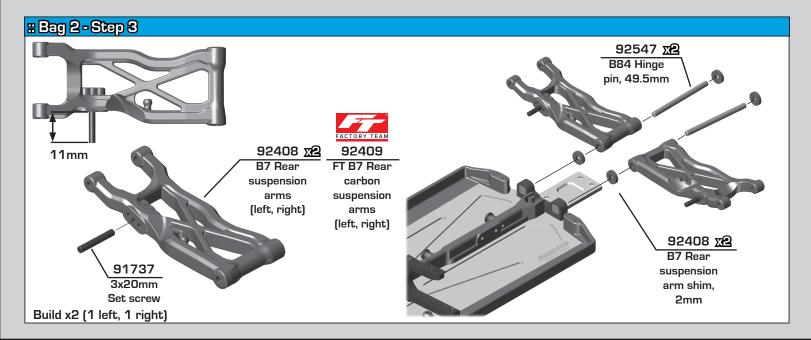


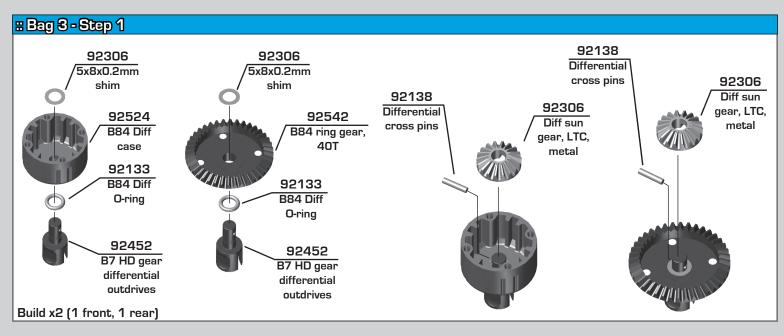


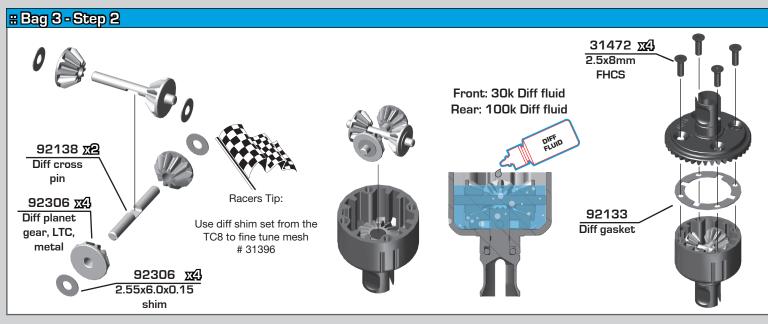


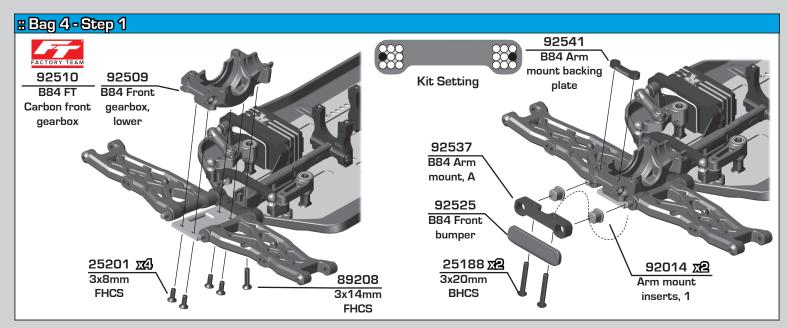


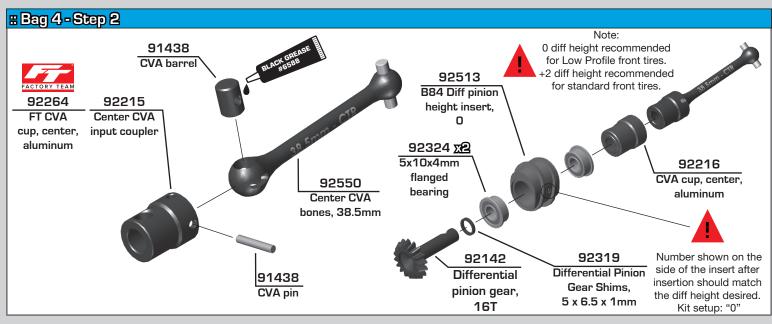


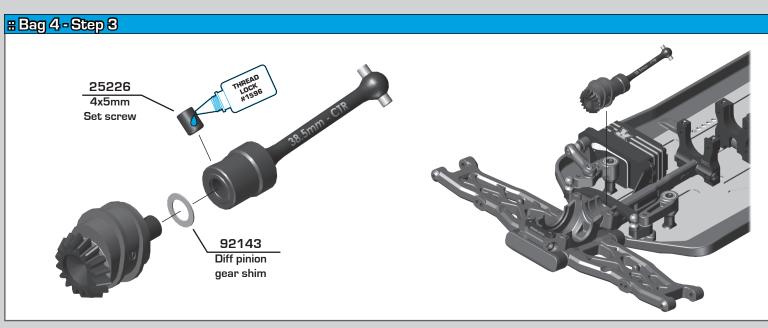


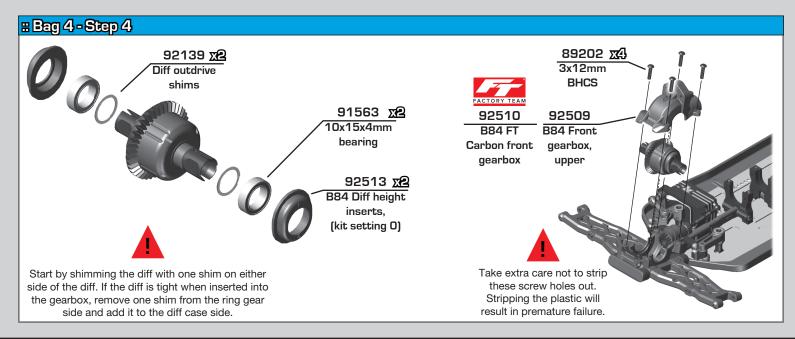


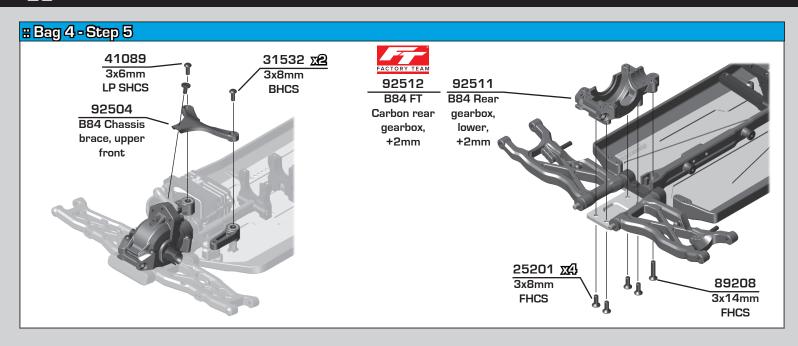


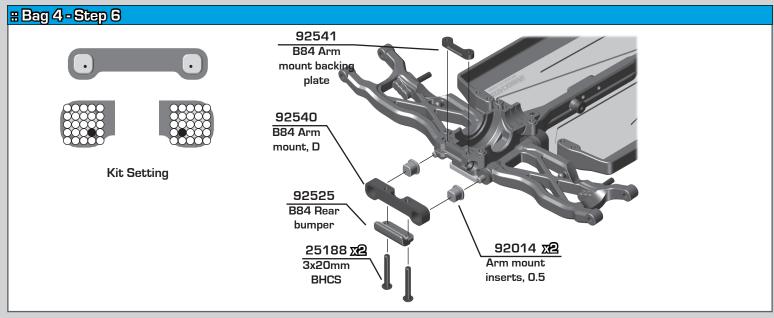


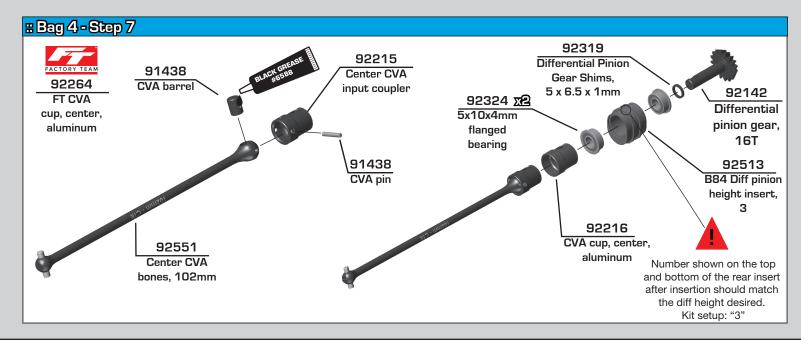


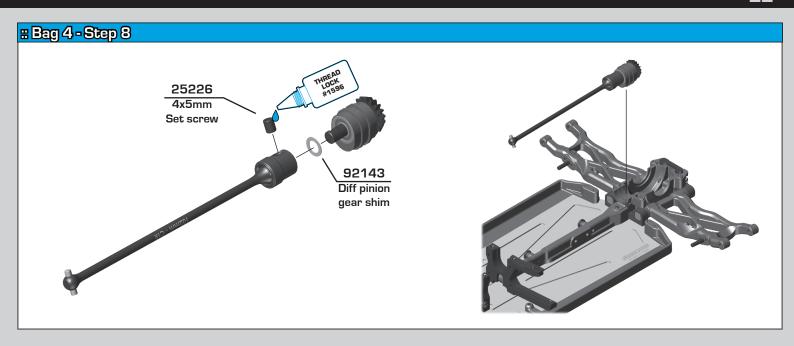


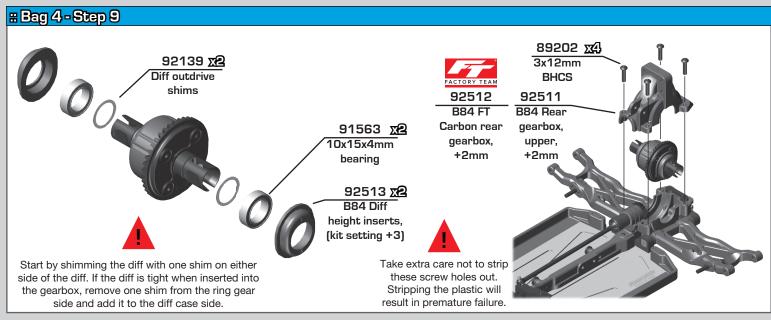


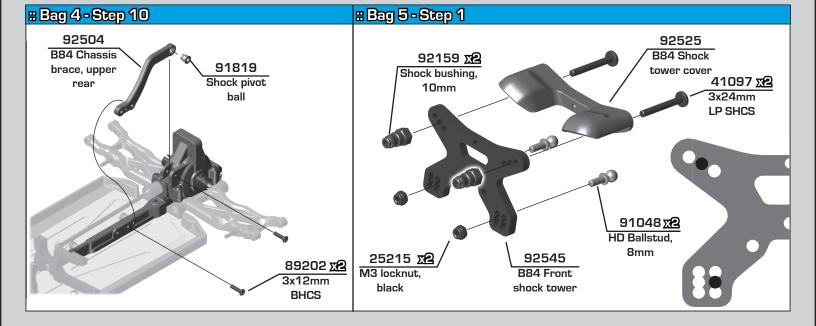


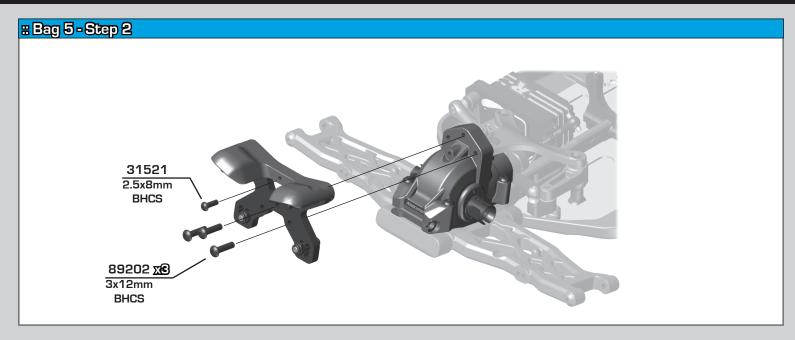


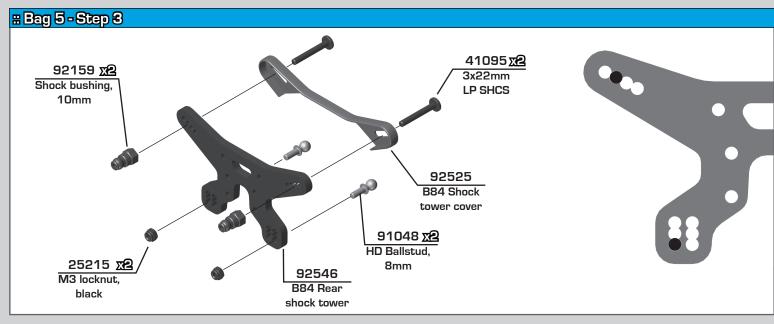


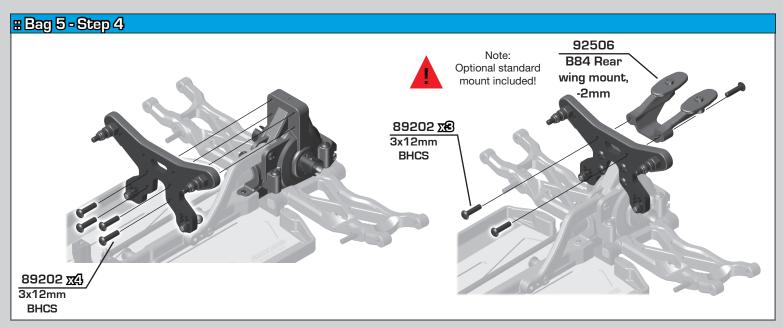


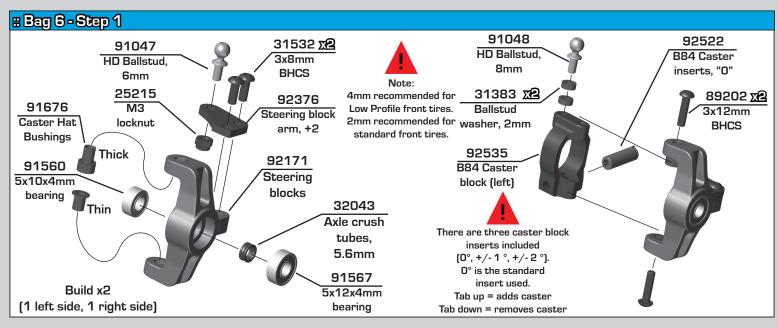


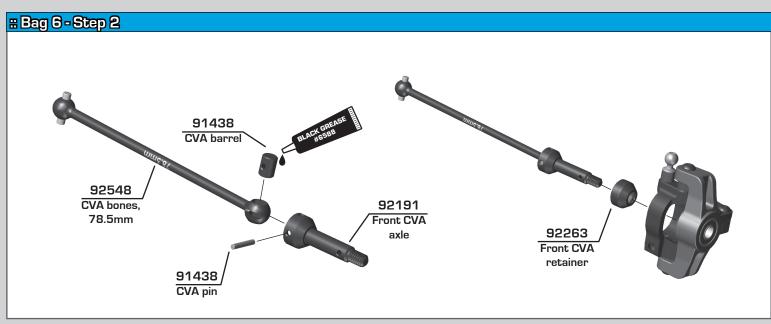


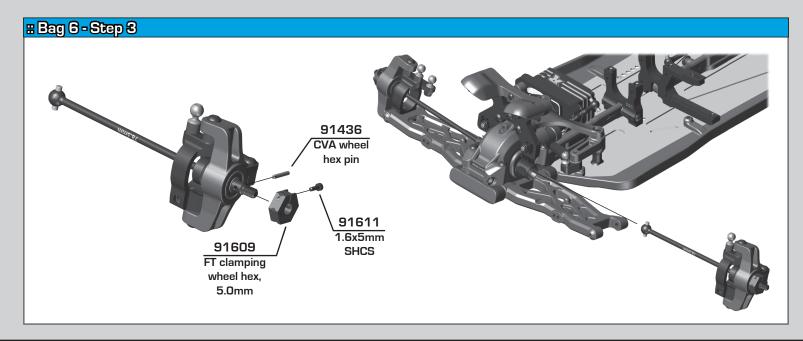


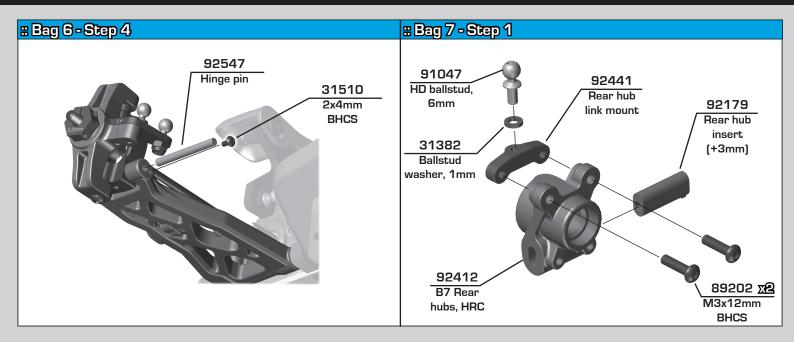


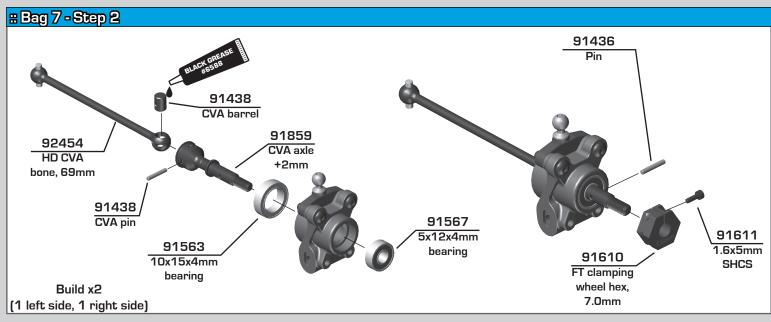


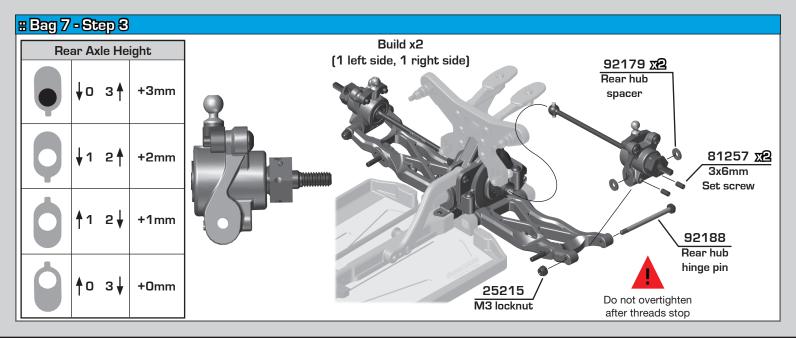


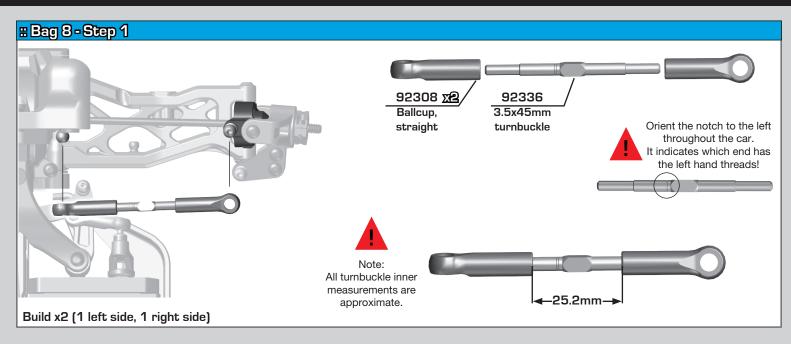


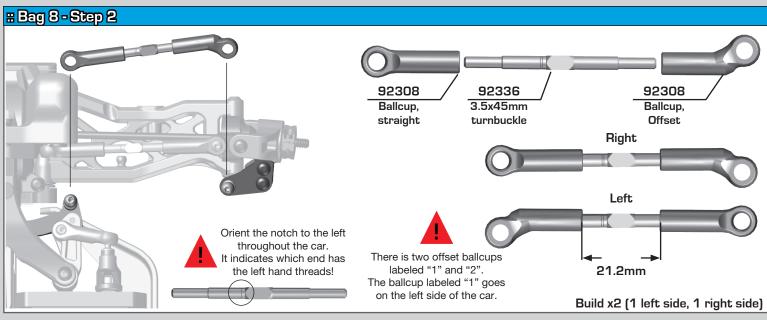


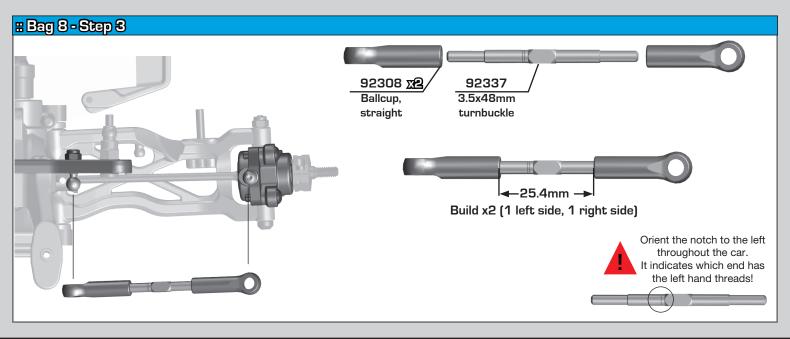


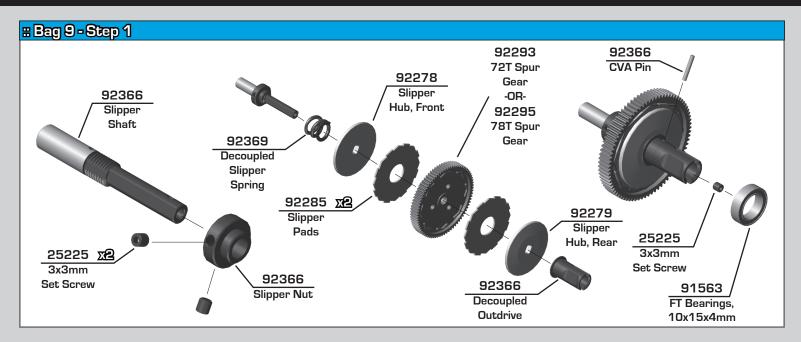


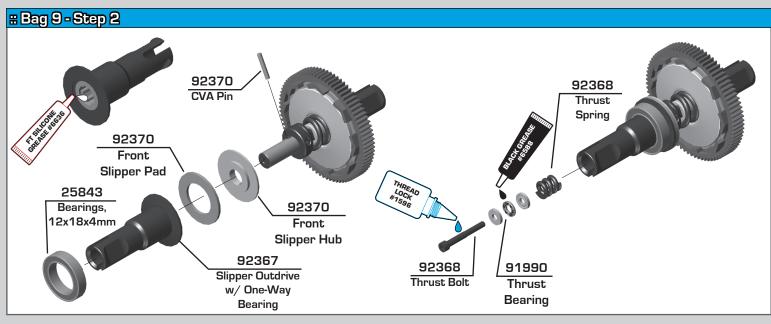


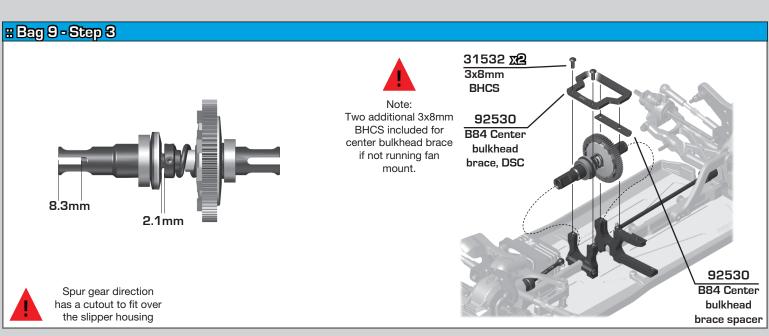


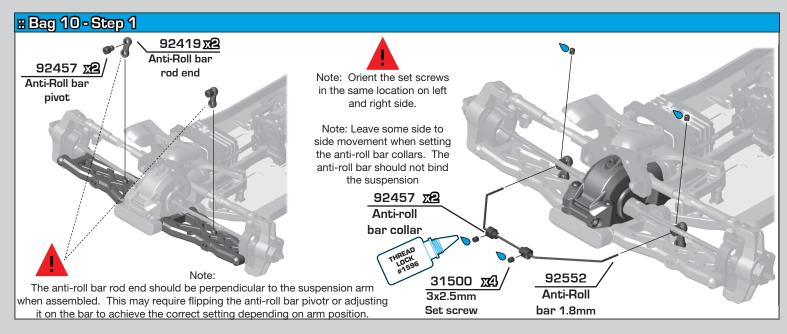


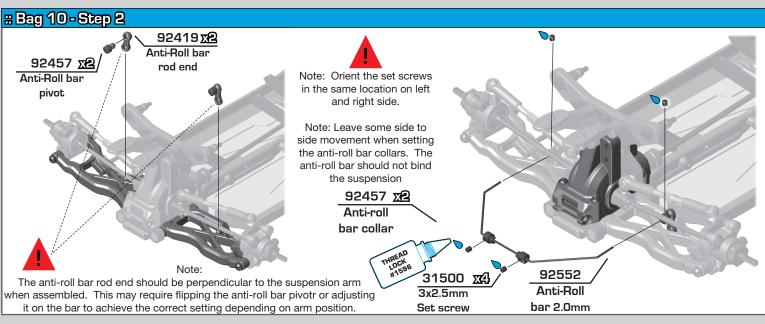


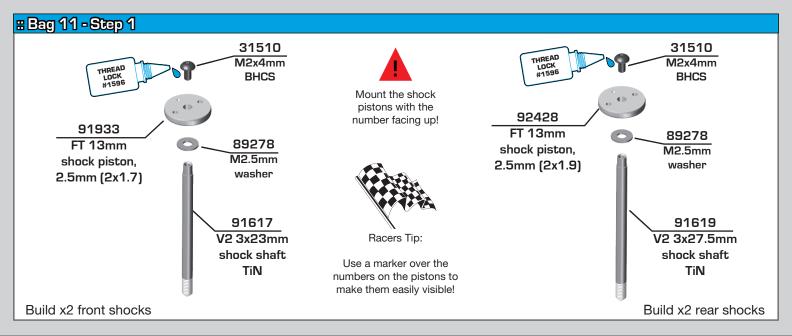


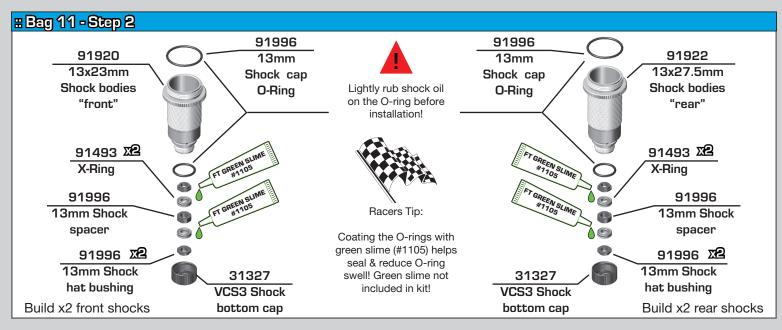


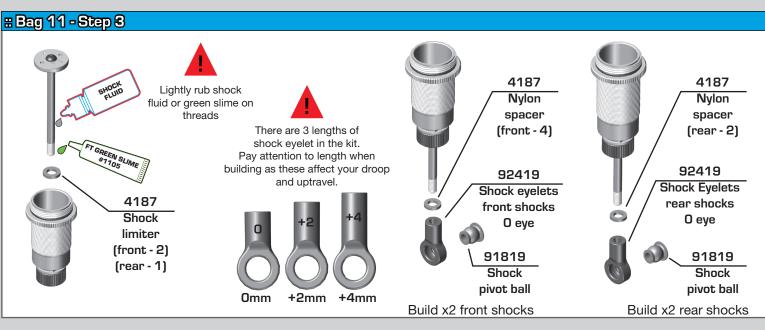


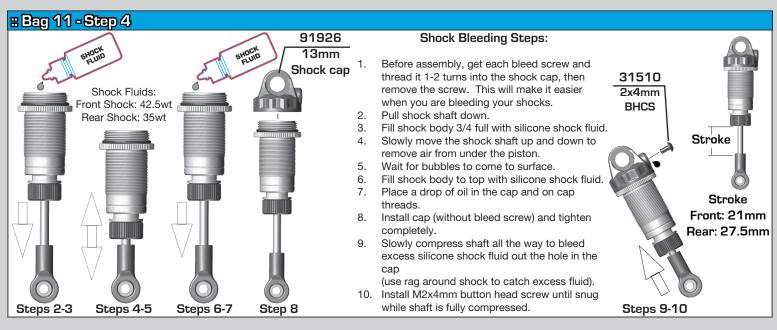


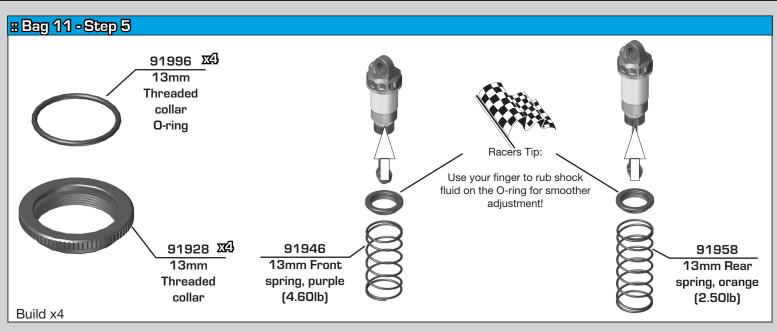


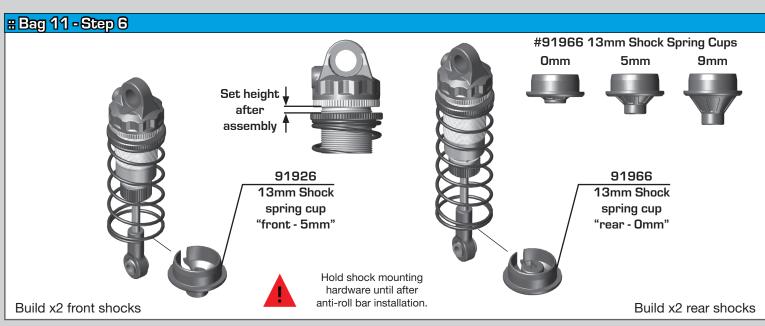


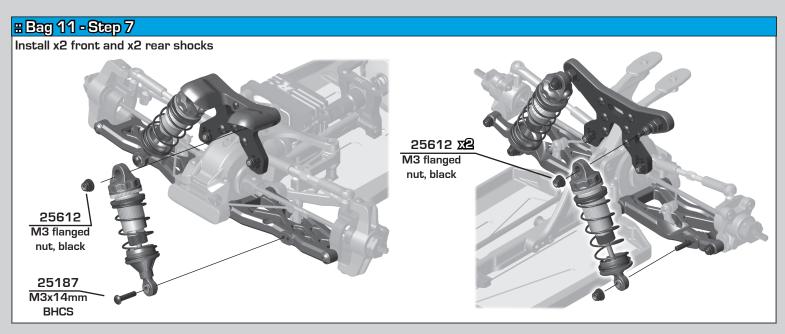


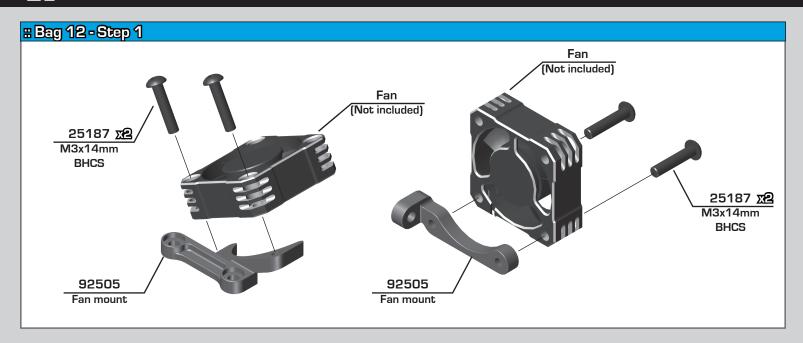


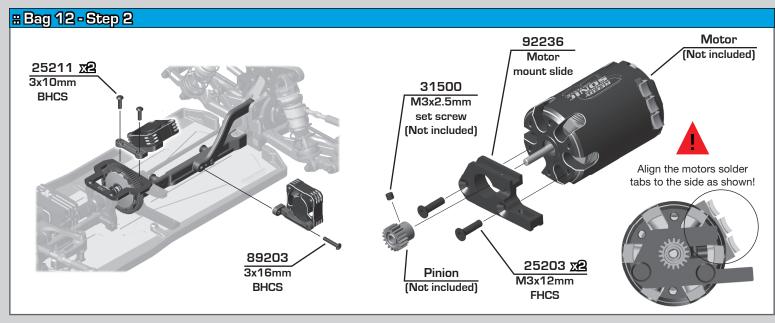


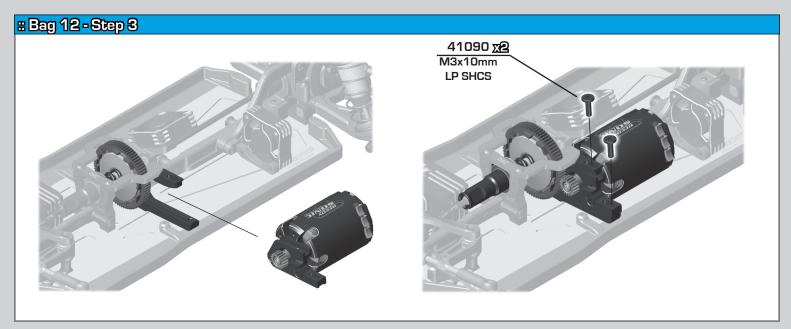


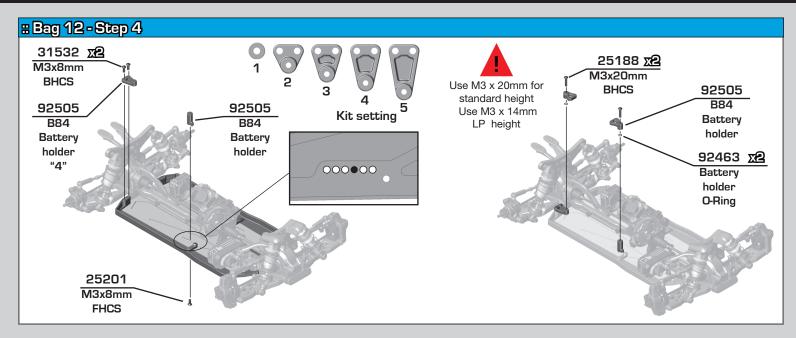


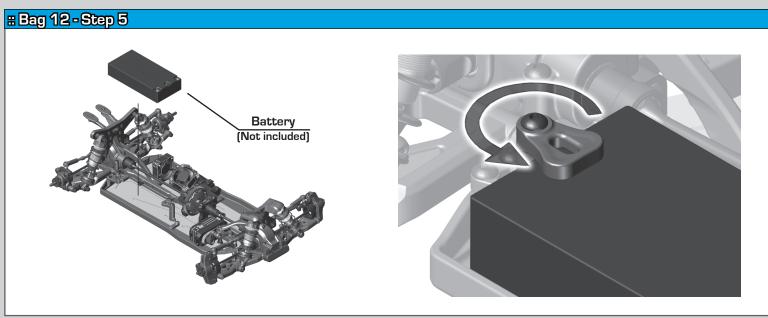


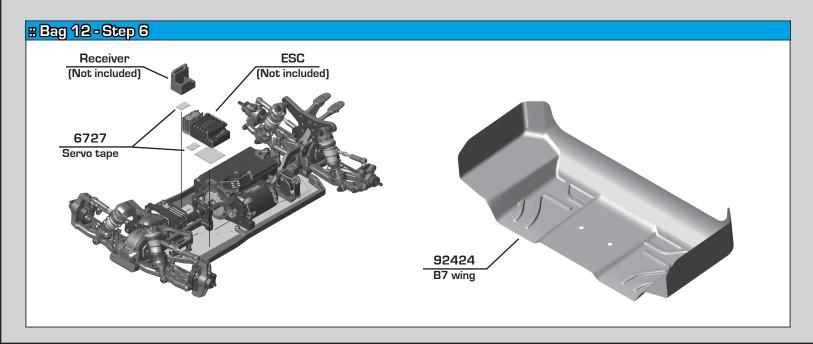


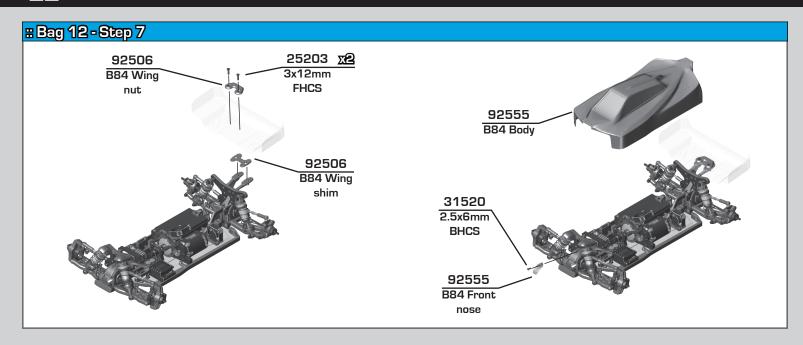


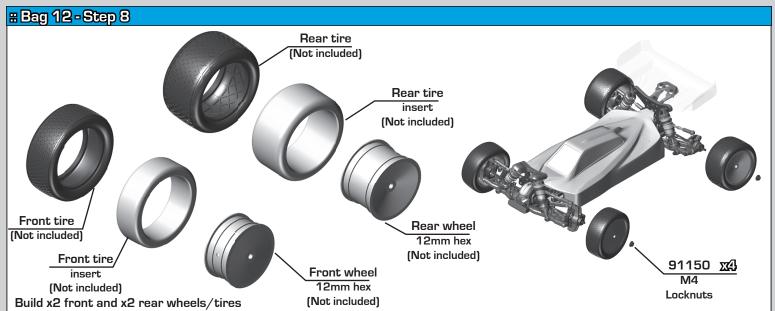












Tuning Tips - Painting, Beginners

Painting:

Your Kit requires a clear polycarbonate body. You will need to prep the body before you can paint it.

Wash the INSIDE thoroughly with warm water and liquid detergent (do not use any detergents with scents or added hand lotion ingredients!). Dry the body using a clean, soft, lint-free cloth. Use the supplied window masks to cover the windows from the INSIDE of the body (RC bodies get painted on the inside). Using high quality masking tape, apply tape to the inside of the body to create a design. Spray (use either rattle can or airbrush) the paint on the inside of the body (preferably dark colors first, lighter colors last). NOTE: ONLY use paint that is recommended for (polycarbonate) plastics. If you do not, you can destroy the body! After the paint has completely dried (usually after 24 hours), cut the body along the trim lines. Make sure to drill or use a body reamer to make the holes for the antenna if needed! Use hook and loop tape to secure the body to the side rails of the vehicle.

Tips for Beginners:

Before making any changes to the standard setup, make sure you can get around the track without crashing. Changes to your vehicle will not be beneficial if you can't stay on the track. Your goal is consistent laps. Once you can get around the track consistently, start tuning your vehicle. Make only ONE adjustment at a time, testing it before making another change. If the result of your adjustment is a faster lap, mark the change on the included setup sheet (make adddtional copies of the sheet before writing on it). If your adjustment results in a slower lap, revert back to the previous setup and try another change. When you are satisfied with your vehicle, fill in the setup sheet thoroughly and file it away. Use this as a guide for future track days or conditions. Periodically check all moving suspension parts. Suspension components must be kept clean and move freely without binding to prevent poor and/or inconsistent handling.

Tuning Tips - Front Arm Mount Pill Insert Setups

B Mount

(G)

Standard Position

Use this position as a reference when changing pill locations.

> Kick-up: 10° Roll Center: +0 Pin Width: +0

> > Pin Width

More distance = wider pivot

Less distance = narrower pivot

0

(19)

Pin Height Higher pin = Higher roll center

Lower Pin = Lower roll center

A Mount

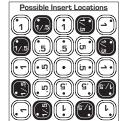
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(9)

0

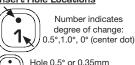


Mount



Insert Hole Locations

.5

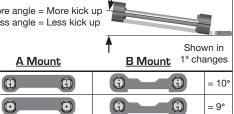


from center Hole 1.0° or 0.7mm from center

The aluminum front arm mounts utilize eccentric pill inserts to make fine adjustments to kick-up, pin height, and pin width. Adjustments can be made using the supplied inserts (#92014)



More angle = More kick up Less angle = Less kick up



= -1.4mm	
	(

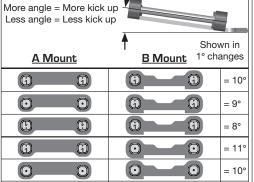
= +1.4mm

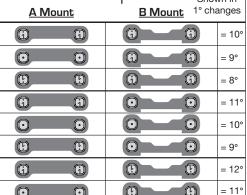
= +0.7mm

= -0.7mm

= 0 mm

A Mo	<u>unt</u>	T _{B Mount}	
		(1)	= +0.7mm
(5)		B	= +0.35mm
0	0	0	= 0mm
(9)	9		= -0.35mm
M	P	B B	= -0.7mm

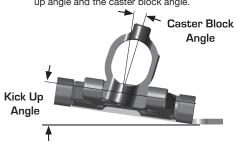




0

Total Caster Angle

Total caster angle is the sum of the kick up angle and the caster block angle.



		Kick Up Angle			
		8°	9°	10°	11°
쓩	6°	14°	15°	16°	17°
Block 3le	7°	15°	16°	17°	18°
<u>م</u> ج	8°	16°	17°	18°	19°
Caste Ar	9°	17°	18°	19°	20°
පී	10°	18°	19°	20°	21°

Tuning Tips - Rear Arm Mount Pill Insert Setups

Standard Position

Use this position as a reference when changing pill locations.

> Toe: 3° Anti-Squat: 2° Roll Center: +0 Pin Width: +0

Pin Width More distance = wider pivot Less distance = narrower pivot







Insert Hole Locations

Number indicates degree of change: 0.5°,1.0°, 0° (center dot)

= 10°



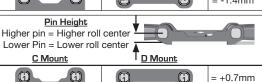
Hole 0.5° or 0.35mm from center

Hole 1.0° or 0.7mm from center

The aluminum front arm mounts utilize eccentric pill inserts to make fine adjustments to kick-up, pin height, and pin width. Adjustments can be made using the supplied inserts (#92014)

C Mount D Mount

•		= +1.4mm
		= +0.7mm
		= 0mm
		= -0.7mm
9 9	9	= -1.4mm



	w w	= +0.7mm
	(5)	= +0.35mm
0 0		= 0mm
9	9	= -0.35mm
•		= -0.7mm

Anti-Squat Angle More angle = More anti-squat Less angle = Less anti-squat

2000 ungio – 2000 unu	oqua:
<u>C Mount</u>	Shown in D Mount 1° changes
<u></u>	= 2°
	(i)
0 0	(i) = 0°
	O = 3°
	© = 2°
	O = 1°
(1)	= 49
	= 3°
(1)	(I)

Toe Angle More angle = More toe in Less angle = Less toe in Shown in 1° changes C Mount **D** Mount 0 **G** (a) = 3° 0 0 = 4° 0 0 0 = 5° 1 = 2° 0 0 0 = 3°

0

= 4°

= 1°

= 2°

= 3°

0

0

0

0

TEAM KIT - C	ENTAGE						#~#~\r" Tremility	
TEAM KIT	pater					[7	inish:	_Best Lep Tilmer
Front Suspension:								
Ride Height: 11mm	Lower Br	ace Type: F	Fixed	Pivot	7 9			Axle Height:
Camber: -1 deg				1	_/["			+3 +2 +1 0
Toe: O deg				Ball	Stud Spaci	ng: 2mm		Ball Stud Spacing: 0
Anti-Roll Bar: 1.8mm	=				·			
Arm Type: Kit	Arm Mou	nt A: 1°	0.5	5°П	7			Steering Plate: +2
Tower Type: Kit	╡[********	Gray		_				
Wheelbase Shim: Arm Middle	=)		\sim	Diff H	eight:		321
Wheel Hex: 5mm	\dashv				+3		Ball Stu	d Spacing: 4mm
Steering Block Type: B74	=				+2			3 6
Caster Block: 6° 7° 8° 9° 10°	Arm Mou	nt B· 1°	0.5	5° 🗌	¬ +1			2 6 5
		Gray	Black	_	+0			1 _4
1110	╡└──	Giay	Black	· <u> </u>		•		
Top Plate Brace Material: Kit	\dashv			\sim				
Front Axles: CVA DCV	\exists							BA
Notes:								D A
RearSuspension	_							
Ride Height: 11mm	Lower Br	ace Type: F	Fixed	Pivot		Height:		Gearbox:
Camber: -1 deg			.000	C	• ▼0	3 ▲ +3	ھے	Standard
Anti-Roll Bar: 2.0mm	Rear Cha	ssis Brace	Screws:		- ○ ▼ 1	2 ▲ +2		+2
Arm Type: Kit - B7	Arm Mou	nt C: 1°	0 .5	5° 🗆	△ ▲ 1	2 ♥ +1		432
Tower Type: Kit		Gray				-		-8
Wheelbase Shim: Arm Middle		20	Q	2000	□ •0	3♥ +0	Cambe	er Link Spacing: O
Wheel Hex: 7mm	$\supset \bowtie$							
Hub Type: Kit - B7 HRC		30	8	5000				3 8 6 5
Drive Shaft Type: 69mm Bone	Arm Mou	nt D: 1 ° [0.5	5°	Diff Hei	ght:		Ball Stud Spacing: 1mm 1
Chassis Brace Material: Kit	7	Gray	Blaci		+3			69mm HD
Upper Chassis Brace Material: Kit		00		0000	- +2	밁		
Hub Spacing: Fwd Mid Back	5 888	38	8	8888	+1 +0	님	T.	000
Notes:	₹ ₩		8		1+0			СВА
Electronics		Differer	at lalı			Shocks		
			Front	Center	Rear	CHOCKER	Frank	Para.
	0/	Fluid:	30K	Genter	100K	D: .	Front	Rear
EPA: Throttle: % Brake:	%					Piston:	2x1.7	2x1.9
ESC:		Gears:	LTC		LTC	Thickness:	2.5mm	
ESC Settings:			Metal		Metal	Fluid:	42.5wt	
	iming:	Notes:				Spring:	Purple	Orange
Pinion: Spur:		Slipper	Clutch			Limiters:		t: 4 Int: 1 Ext: 2 \$ \$ \$ \$ \$ \$ \$ \$ \$
Motor Position: Forward: Back:		Туре:				Stroke:	21mm	27.5mm Ö□
Battery Position:		# of Pad	s:			Eyelet:	0	0
Back 1 2 3 4 5	Forward	Setting:				Cup Offset:	0 +5	+9 0 +5 +9
Battery: Weight:		Notes:				Kashima B	odies: Chr	ome Shafts: Machined Spacers:
Notes:						Notes:		
TrackInfo	Tires				Body, Wa	ight:		Vehicle Comments:
Size:	Front Tires:				Body:	B84		Notes:
Surface:	Front Compo	und:		<u> </u>	Front Win	g: N	ose	
Traction:	Front Insert:				Rear Wing		37	
Moisture:	Rear Tires:		Rear Wing Mount:				0 -2	
Condition:	Rear Compo	und:	Wing Angle: 0				3° 6° 6°	
	Rear Insert:				Chassis Length:		Standard Standard	
Tomporetuna		_					Juan luan u	
Temperature:	Wheel (F/R)			 	Total Vehicle Weight: Notes:			
Notes:	Notes:							
# For more setups, vis	stribttos ///	www.ass	oclate	electri	escom/fr	eamassoc	ated/manual	s and setup sheets/

	Driver Events		l	(Qualify:		Mains		
TEAM KIT 3 3 1	Date:	Track	l	[Alalsha	<u> </u>	all op th	10H	
Front Suspension:									
Ride Height:	Lower Br	ace Type: Fixed Pivot	7 0				Axle Height:		
Camber:	Lower Br			//		_		0 🗌	
Toe:		Re	all Stud Spac	ing	9)	Ball Stud Sp		
Anti-Roll Bar:	\exists	De	iii Stuu Spac	ilig.			Dali Stuu Sp	Jacing.	
Arm Type:		nt A: 1 ° 0 .5°	\neg				Steering Pla	ate:	
Tower Type:		Gray Black							00
Wheelbase Shim:		0000	D:# L	leight:				3	2,
Wheel Hex:	\exists (\bowtie		+3	reignt:	Ball 9	Stud Sp	acing:		
	┤		+2				/		600
Steering Block Type:		. B 1 ° D 0 5 ° D	+1			4/	/	3	
Caster Block: 6° 7° 8° 9° 10°]] Arm Mou	nt B: 1° □ 0.5° □ Gray □ Black □	+0					1	4
Chassis Brace Material:	╡└──	GIAY DIACK []							
Top Plate Brace Material:						0			
Front Axles: CVA DCV	-					2	(O O)		
Notes:							БА		
Rear Suspension:								_	
Ride Height:	Lower Br	ace Type: Fixed Pivot		Height:		<i>-</i>	Gearbox:		
Camber:			▼0 3 ▲ +3				Standard	<u> </u>	
Anti-Roll Bar:	Rear Cha	ssis Brace Screws:	- 0 ▼1	2	ORT		-2 ∟		-
Arm Type:	Arm Mou	nt C: 1 ° 0 .5° 0	— 	2 ♥ +1		, P		432	
Tower Type:	7	Gray Black						24	6/
Wheelbase Shim:		00000	—	3♥ +0	Can	nhor I in	k Spacing:		
Wheel Hex:	≒ 888				G)	ik opacing.		
Hub Type:	₹ 👑					i		3	226
Drive Shaft Type:	=	nt D: 1 °	Diff Hei	aht:		Ball 9	Stud Spacing:	2 1	884
Chassis Brace Material:	Arm Mou	nt D : 1 ° □ 0 .5° □ Gray □ Black □	+3				40mm u		
Upper Chassis Brace Material:	$\exists loodsymbol{ o}$	GIAY DIACK	- - ₊₂				97HIH H	D	As As
Hub Spacing: Fwd Mid Back	╡ 🗯		+1	□Ⅰ		T	000		
Notes:	4 🗯		+0				CBA		
		-n n				`			
Electronics		Differential:		Shocks					
Radio: Servo:		Front Center	r Rear		Fron	t	F	Rear	
EPA: Throttle: % Brake:	%	Fluid:		Piston:					
ESC:		Gears:		Thickness	:				
ESC Settings:		Туре:		Fluid:					
Motor / Wind: Timing:		Notes:	Spring:						
Pinion: Spur:		Slipper Clutch:	Limiters:	Int:	Int:	Ext:	Stroke		
Motor Position: Forward: Back: Back:		Туре:		Stroke:] &
Battery Position:		# of Pads:	Eyelet:						
Back 1 2 3 4 5 Forward		Setting:		Cup Offse	t: 0 +5	+9[0 +5	5 +9 ·	
Battery: Weight:		Notes:		Kashima I			Shafts:		Spacers: 🗌
Notes:				Notes:				• –	
Tirackinfo	Tires:		Body, W			W-	hicle Com	menter	
Size:	Front Tires:		Body:	абия			otes:	шепсев	
			Front Wing:			$\exists $	otes:		
Surface:	Front Compound:					≓II−			
Traction:	Front Insert:		Rear Wing:			닠 -			
Moisture:	Rear Tires:		Rear Wing Mount: 0 -2 -2			≓ II-			
Condition:	Rear Compound:			Wing Angle: 0° 3° 6° 1					
	Rear Insert:		Chassis Length:			ᆜ _			
Temperature:	Wheel (F/R):		Total Vehi	cle Weight:		_ _			
Notes:	Notes:		Notes:			J∣L			

For more setups, visit https://www.associatedelectrics.com/teamassociated/manuals_and_setup_sheets/



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