



TEAM ASSOCIATED®

W O R L D C H A M P I O N R / C A R S

RC10B6 Builder's Support Kit 2



#90053 RC10B6 Builder's Support Kit 2

1:10 Scale 2WD Electric Off Road Builder's Support Kit Manual



CHAMPIONS *by* DESIGN

AssociatedElectronics.com



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.AssociatedElectrics.com for the latest versions of our instruction manuals.

RC10B6 Builders Support Kit 2 Features

The RC10B6 Builders Support Kit 2 brings Team Associated race-winning technology to builders assembling dirt oval sprint cars, late models, and custom drag cars. The applications are endless. The Builders Support Kit has the major sub-assemblies builders need in a value-packed kit, without having to pay for excess 2WD off-road buggy parts. "Not everything depicted in this manual comes in this kit. Illustrations are for understanding fundamental designs and helping aid in the assembly of your custom build."

Scan the QR code to get to the TeamAssociated.com product page where you can download a detailed PDF manual showing each assembly included. Also look for a downloadable PDF of 3rd party conversion vendors who supply parts to complete your dirt oval, drag, or custom creation.

RC10 B6 BUILDER'S SUPPORT KIT 2



SCAN ME

Digital manual

Additional

Your new RC10B6 Builders Support Kit 2 comes unassembled and requires the following items for completion (refer to www.AssociatedElectrics.com and www.Reedypower.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 (540 size)
- Pinion gear (48P), 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 body
- Polycarbonate specific spray paint
- Cyanoacrylate glue ("CA") (#1697)
- Thread locking compound (#1596)
- Tires and Inserts, Fronts and Rears
- Wheels w/12mm Hex
 - Front Wheels #9690 (white), #9691 (yellow)
 - Rear Wheels #9695 (white), #9696 (yellow)
- Slim Front Wheels w/12mm Hex (carpet/astro turf) #91757 (white) #91758 (yellow)

Other Helpful Items

- Silicone Shock Fluid (Refer to AssociatedElectrics.com for complete listings)
- Green Slime shock lube (#1105)
- FT Turnbuckle Wrench, 4mm (#1112)
- FT Body Reamer (#1499)
- Shock Pliers (#1681)
- Wire Cutters
- FT Hex/Nut Wrenches (#1519)
- FT Ballcup Wrench (#1579)
- Hobby Knife
- Needle Nose Pliers
- FT Universal Tire Balancer (#1498)
- Calipers or a Precision Ruler
- FT Body Scissors (#1737)
- Soldering Iron

Associated Electrics, Inc.
21062 Bake Parkway.
Lake Forest, CA 92630



Customer Service
Tel: 949.544.7500
Fax: 949.544.7501

Hardware - 1:1 Scale View

Button Head (bhcs)

	2x4mm (31510)
	2.5x6mm (31520)
	3x6mm (31531)
	3x8mm (31532)
	3x10mm (25211)
	3x12mm (89202)
	3x14mm (25187)
	3x16mm (89203)
	3x18mm (2308)
	3x22mm (25189)
	3x24mm (89204)

Flat Head (fhcs)

	2x3mm (91749)
	3x8mm (25201)
	3x10mm (25202)
	3x12mm (25203)
	3x14mm (89208)

Cap Head (shcs)

	1.6x5mm (91611)
	3x16mm (89224)

LP Socket Head (lp shcs)

	3x6mm (41089)
	3x8mm (41096)
	3x22mm (41095)

Nuts (lock/plain)

	M3 Nut (91477)
	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)
	Serrated Aluminum (Black) (91738)

Ball Bearings

	4x7x2.5mm (31732)
	5x8x2.5mm (31400)
	5x10x4mm (91560)
	5x10x4mm flanged (92324)
	5x12x4 (91567)
	10x15x4 (91563)

Shims and Washers

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

Set Screws

	3x3mm (25225)
	3x6mm (81257)
	3x12mm (81258)
	3x20mm (91737)

Ballstuds

	Silver 5mm long (31283)
	Silver 8mm long (31284)
	HD 6mm (91047)
	Ti HD 6mm (91751)
	HD 8mm (91048)
	Ti HD 8mm (91752)
	HD 10mm (91049)
	Ti HD 10mm (91753)

Notes:

Table of Contents

1.....	Cover	11.....	Gearbox Build Bag 6
2.....	Introduction	14.....	Rear Hubs Build Bag 7
3.....	1:1 Hardware “Fold Out”	15.....	Turnbuckles Build Bag 8
4.....	Table of Contents	16.....	Shocks Build Bag 9
5.....	Steering Build Bag 1	19.....	Electronics Build Bag 10
5.....	Front Suspension Build Bag 2	22.....	Tuning Tips
8.....	Caster / Steering Blocks Build Bag 3	24.....	Setup Sheet “Kit Setup”
9.....	Rear Suspension Build Bag 4	25.....	Setup Sheet “Blank”
10.....	Gear Differential Build Bag 5	26.....	Back Cover

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 Thread Lock Adhesive should be applied. *not included



This symbol indicates where Diff Fluid should be applied.



This symbol indicates where Shock Fluid should be applied.



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.

Bag 1 - Step 1

! Note orientation of steering rack

Front TOP

31732 x4
4 x 7 x 2.5 Ball Bearing

91973 Steering Rack

91973 Steering Bellcrank (Right)

31283 5mm Ball Stud, Long

91973 Steering Bellcrank (Left)

91974 x2 Steering Hat Bushing

89202 x2 M3 x 12mm BHCS

91048 x2 Heavy-duty Ballstud, 8mm

Remove the steering rack washers for less steering

Bag 1 - Step 2

25191 x2 M3 x 18mm SHCS

31732 x4 4 x 7 x 2.5 Ball Bearing

91974 x2 Steering Hat Bushing, High

91049 x2 Heavy-duty Ballstud, 10mm

91971 Front ball stud mount

B6.4 Kickup/Steering Option Chart				
Steering	Bulkhead	Caster Insert	Chassis	Total Insert
High	2.5°	0°	22.5°	25°
Low	2.5°	2.5°	22.5°	27.5°
Low	2.5°	5°	22.5°	30°
High	0°	0°	22.5°	22.5°
High	0°	2.5°	22.5°	25°
Low	0°	5°	22.5°	27.5°
High	-2.5°	0°	22.5°	20°
High	-2.5°	2.5°	22.5°	22.5°
High	-2.5°	5°	22.5°	25°

! (Low position) Bellcranks down, hat side on top
(High position) Bellcranks up, hat side on bottom

Bag 2 - Step 1

! Chassis not included!
Use your 3rd party conversion kit here

91656 Bulkhead

! Note:
Check the screw length as both 14mm and 16mm are in the screw bag. Use the shorter of the two screws!

89208 x2 M3 x 14mm FHCS

+2.5°
+2.5°

Bag 2 - Step 2

91997 **x2**
Steering Link, B6.4

4671
M3x10mm Set Screw

31382
FT Ballstud Washer, Aluminum (1mm)

31284
8mm Ball Stud, Long

31531
M3 x 6mm BHCS

91728
Servo Horn, 15.5mm

91728
Servo Horn Ring

Center the servo horn on the servo.

Servo not included!

Tighten the steering link ball cups all the way until snug.

FACTORY TEAM

1369 FT Aluminum Clamping Servo Horn, 23T 15.5mm

1370 FT Aluminum Clamping Servo Horn, 25T 15.5mm

23T: Sanwa/ KO/ JR/ Spektrum
24T: Hitec
25T: Reedy/ Futaba/ Savox/ ProTek/ MKS

Bag 2 - Step 3

91885
Servo Mount Brace

31531 **x2**
M3 x 6mm BHCS

91887 **x2**
Servo Mount

41089 **x4**
M3 x 6mm LP SHCS

#91728 - Servo Spacers are not required for most servos.

Bag 2 - Step 4

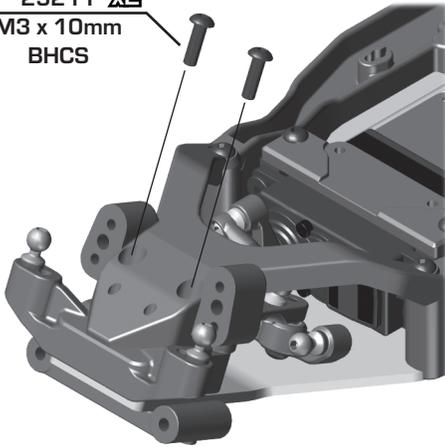
91971
Top Plate, B6.4

25187 **x2**
M3 x 14mm BHCS

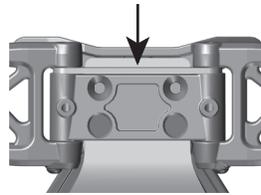
25202 **x2**
M3 x 10mm FHCS

Bag 2 - Step 5

25211 x2
M3 x 10mm
BHCS



The front hinge pin brace has a sharp edged side, and a rounded edge side. Mount the sharp edge side towards the bulkhead.



91657
Front Hinge Pin
Brace, B6

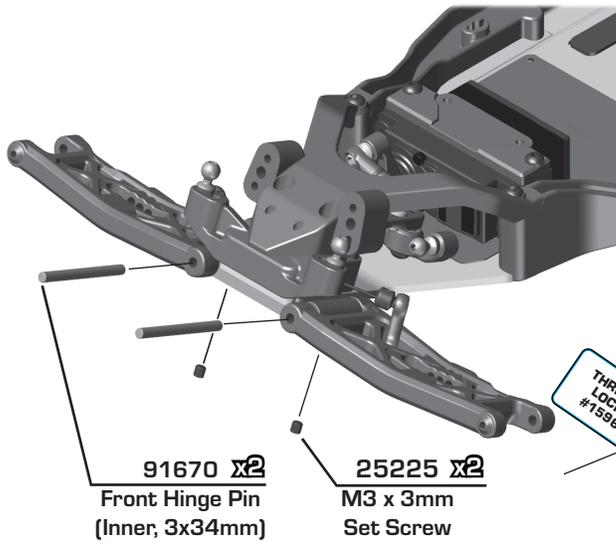
31510
M2 x 4mm
BHCS

91671 x2
Front Arms,
Flat, B6

91673 x2
Front Arms,
Gull Wing, B6

Build 2 (1 left, 1 right)

Bag 2 - Step 6

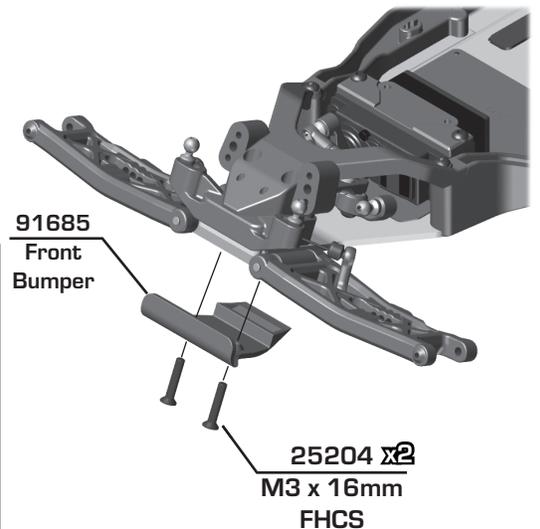


91670 x2
Front Hinge Pin
(Inner, 3x34mm)

25225 x2
M3 x 3mm
Set Screw



91685
Front
Bumper



25204 x2
M3 x 16mm
FHCS

Bag 2 - Step 7

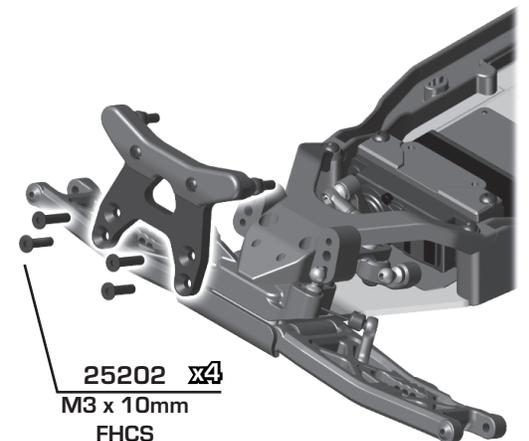


25188 x2
M3 x 20mm
BHCS



Mount screw and shock bushings to 3rd party conversion kit tower and chassis.

91816 x2
Shock
Bushing,
12mm



25202 x4
M3 x 10mm
FHCS

Bag 3 - Step 1

31531 M3 x 6mm BHCS

91901 Steering Block (4mm)

91560 ^{x2} 5 x 10 x 4 Bearing

71144 Steering Block Arm, +1mm

91047 Heavy-duty Ballstud, 6mm

25215 M3 Locknut, black

4L - 1

! KPI 1 has less direct steering feel
KPI 3 has most direct steering feel

91682 Front Axle, 5.0mm

91683 FT Titanium Front Axle

71181 FT Hex Adapter Front Axles

Build 2 (1 left, 1 right)

Bag 3 - Step 2

! Use shorter screw in front!

31532 M3 x 8mm BHCS

91049 Heavy-duty Ballstud, 10mm

91901 Caster Block

25215 M3 Locknut, black

31531 M3 x 6mm BHCS

You can install an optional #31520 screw to use as a steering stop setting.

You can install an optional #4670 set screw to better hold the caster block inserts and hinge pin.

! There are three caster block inserts included (0°, +/- 2.5°, +/- 5°). +2.5° is the standard insert used. Tab up = adds caster Tab down = removes caster

91901 Caster Block Insert (2.5°)

Build 2 (1 left, 1 right)

Bag 3 - Step 3

25187 M3 x 14mm BHCS

91676 ^{x2} Caster Hat Bushing Top: 2mm Bottom: 1mm

91901 Caster Block Spacer

91670 Front Hinge Pin (Outer, 3x26mm)

31510 M2 x 4mm BHCS

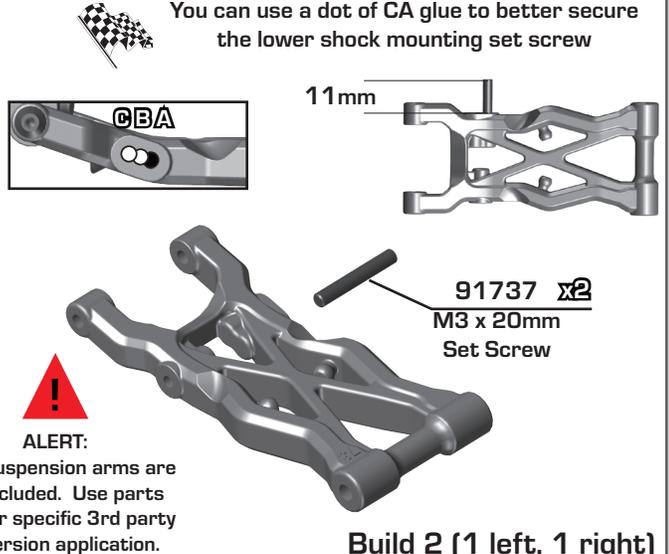
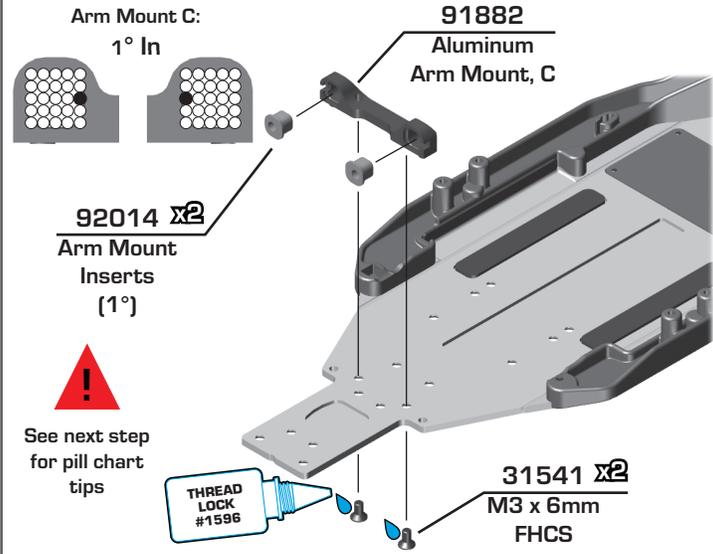
89202 M3 x 12mm BHCS

! #91670 - Hinge Pin will be tight in the caster blocks, but should rotate freely in the front arms.

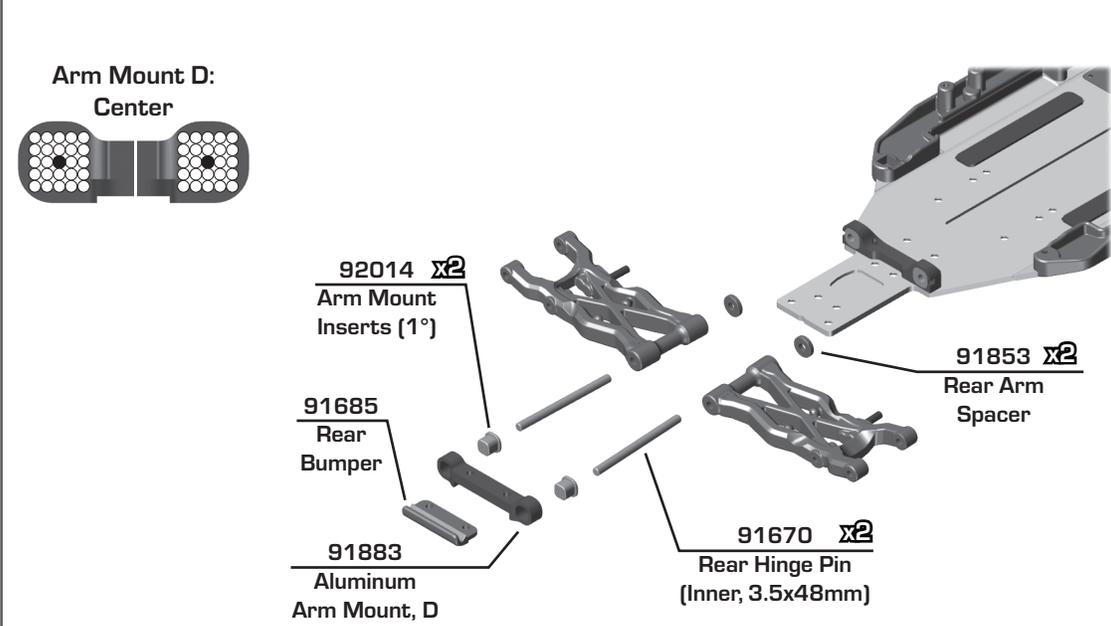
Build 2 (1 left, 1 right)

Build 2 (1 left, 1 right)

Bag 4 - Step 1

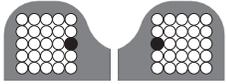


Bag 4 - Step 2



The (#91882) C and (#91883) D aluminum arm mounts allow for a large amount of setup combinations when using the (#92014) 0.5° and 1° arm mount inserts.

For a complete list of pill setup combinations, please visit our website by using the link below.
<http://bit.ly/B6PillChart>

Arm Mount C: 1 deg In	Toe-In	Anti-Squat
 Arm Mount D: Center 	4 degree Kit Setup	1 degree Kit Setup

:: Bag 5 - Step 1

6581 x14
3/32 Carbide
Diff Balls

FT DIFF LUBE #6591

7666
Diff Drive
Ring

91419
Diff Gear,
52T

91701
Ball Diff
Outdrive
Male

91701
Ball Diff
Outdrive
Female

Build Tip:
The bottom side of the gear has 3 injection dots. This side faced down will keep the diff balls from falling thru the holes

:: Bag 5 - Step 2

BLACK GREASE #6588

91990 x2
Thrust
Washer

91990
Caged Thrust
Bearing

6575
Diff Thrust
Bolt

8680
5 x 8 x 2.5mm,
Bearing

8680
5 x 8 x 2.5mm,
Bearing

Build Tip:
Install the first washer (groove up), add grease #6588. Install the caged thrust washer. Add grease on top of the balls, then install the 2nd washer (grooves down).

Build Tip:
Do this entire step with the diff screw on the end of your wrench for better control.

:: Bag 5 - Step 3

6575
Locking
T-nut

6582
Diff Thrust
Spring

6575
Diff cover

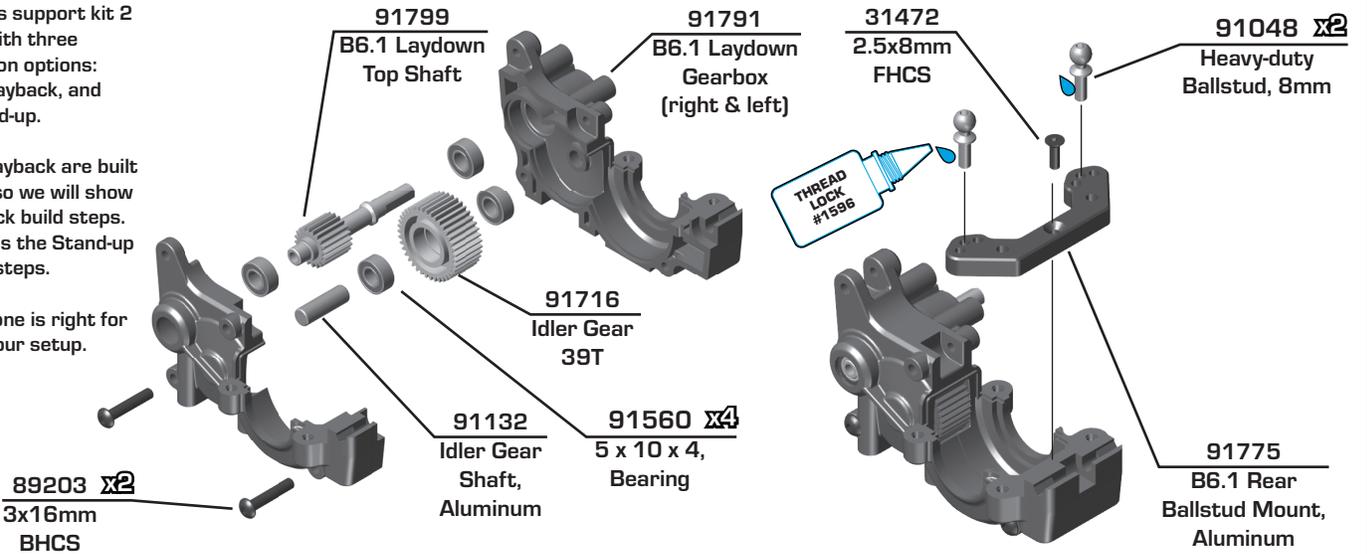
As you tighten the diff bolt, you will notice the T-nut ears moving closer to the bottom of the outdrive slot. This compresses the spring behind the T-nut. The spring should be completely compressed at the time the T-nut reaches the end of the slot. Caution! Pay close attention to the feeling when the spring is completely compressed. Do not overtighten the bolt. When you feel the spring completely compressed, loosen the diff bolt 1/8 of a turn. Your diff should now operate smoothly but with resistance as the outdrives move in opposite directions. After you have driven the car once, re-check the diff setting.

Bag 6 - Step 1

The B6 builders support kit 2 comes with three transmission options: Laydown, Layback, and Stand-up.

Laydown and Layback are built very similarly, so we will show only the layback build steps. Following this, is the Stand-up build steps.

Choose what one is right for you and your setup.

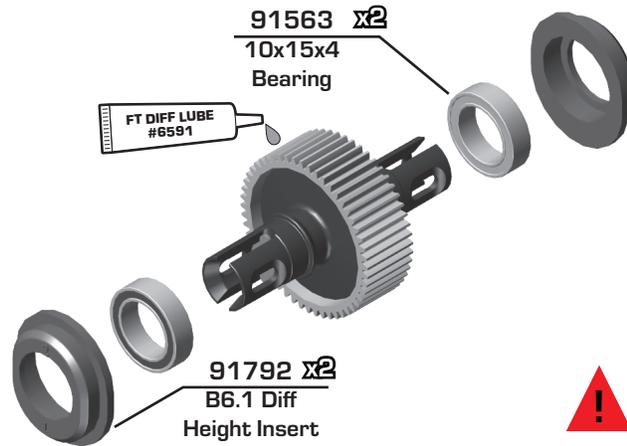


Bag 6 - Step 2

Diff Height	
	3
	2
	1 Kit Setup
	0

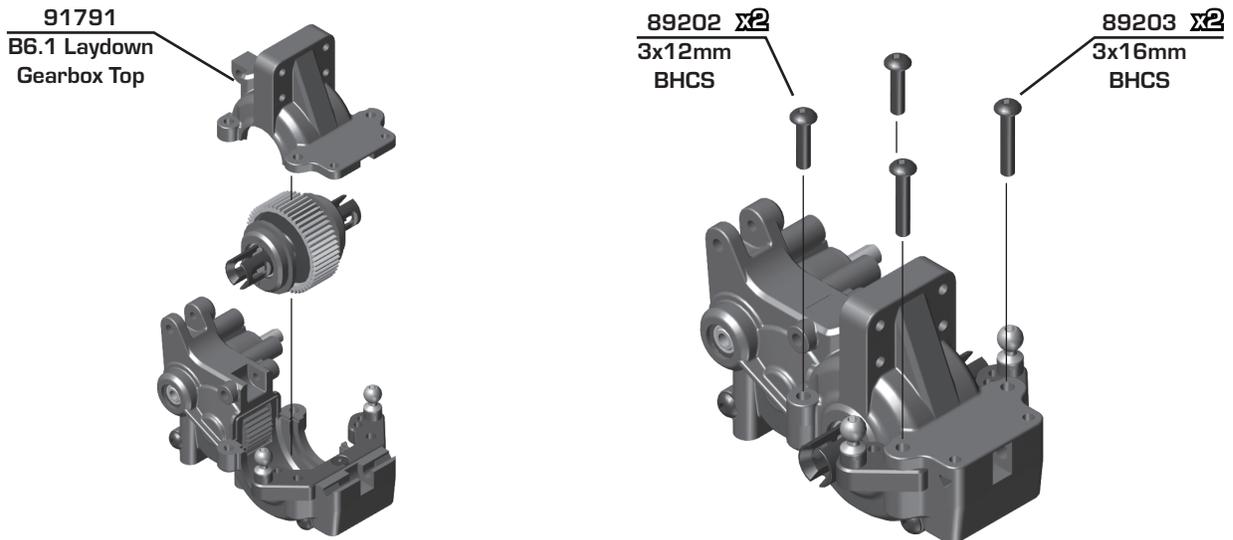


Add a drop of Diff Lube (#6591 - not included) to the teeth of the diff gear, idler gear, and top shaft.

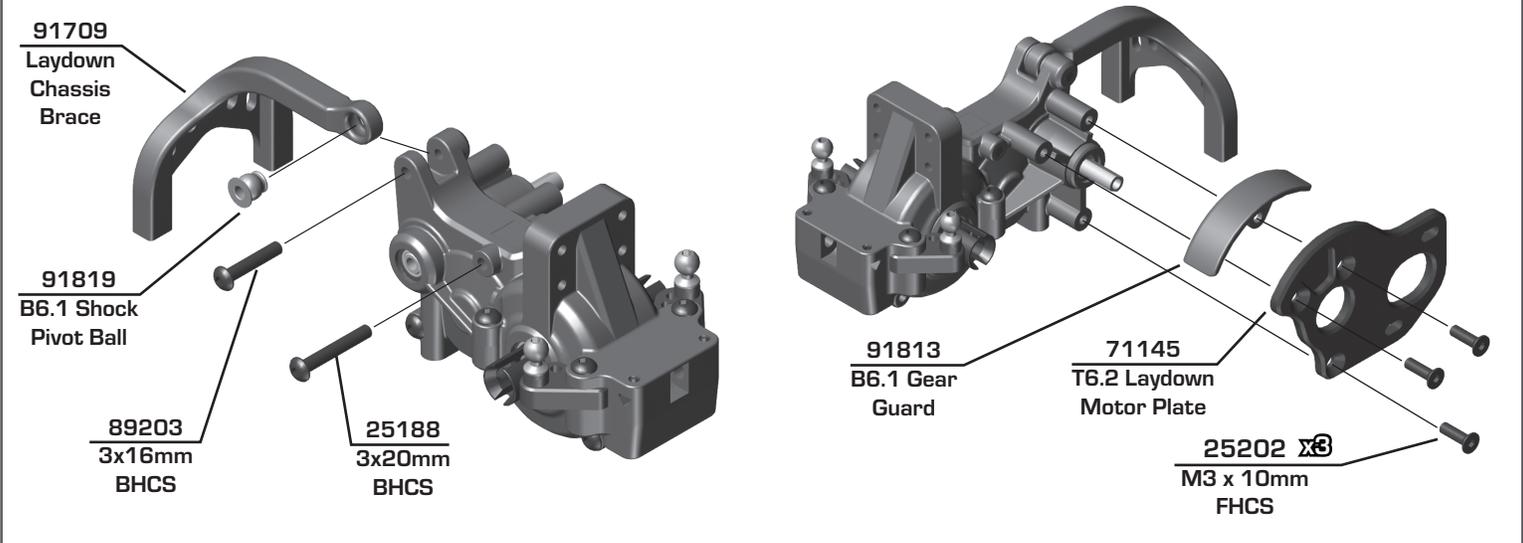


! Diff Height Inserts: The number on top is the setting. Stock diff height is 1.

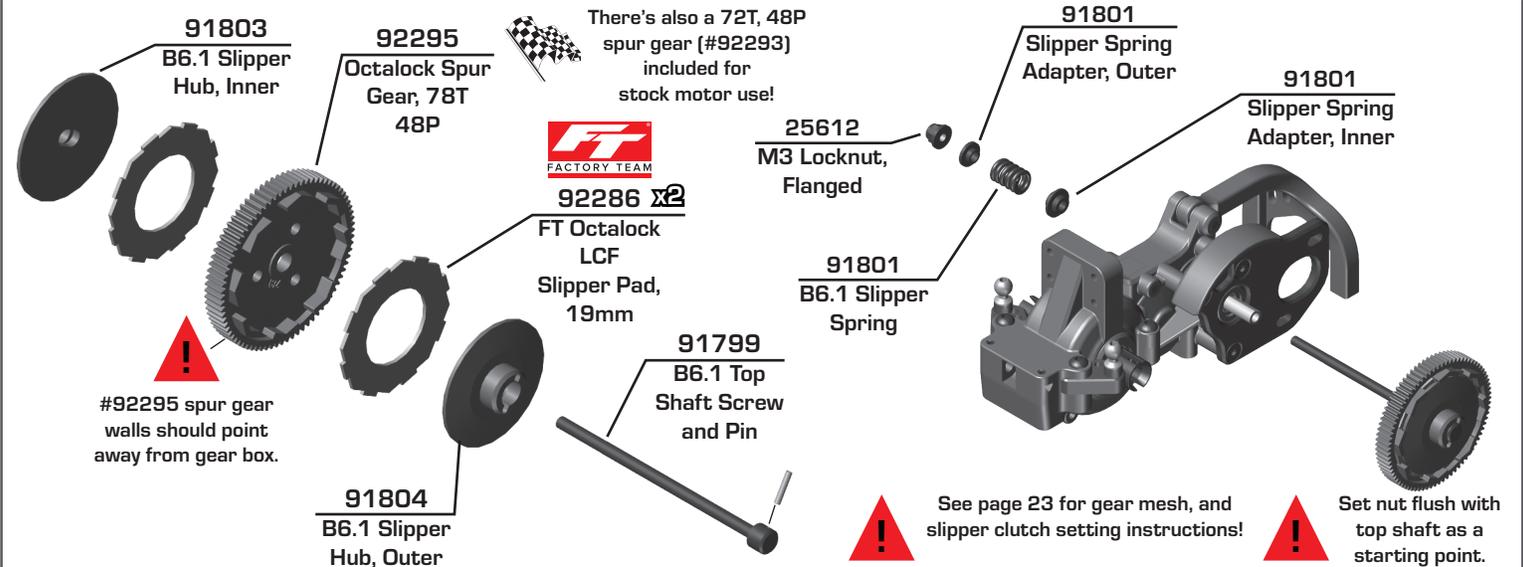
Bag 6 - Step 3



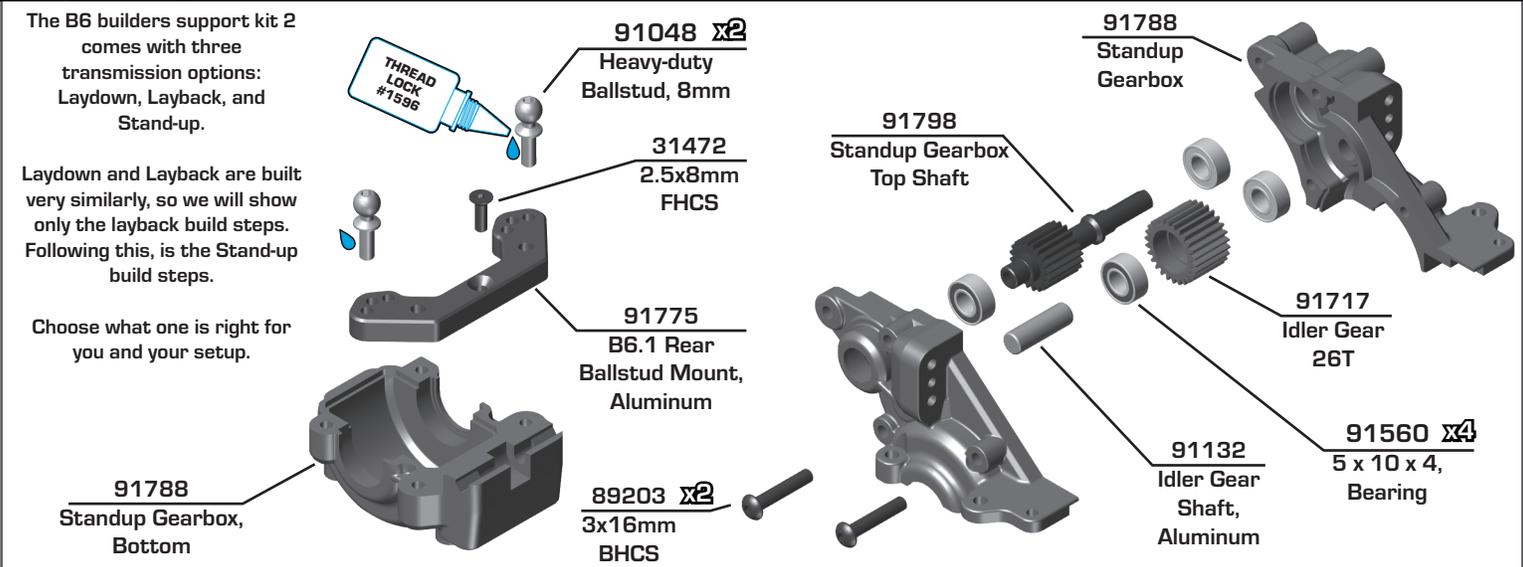
Bag 6 - Step 4



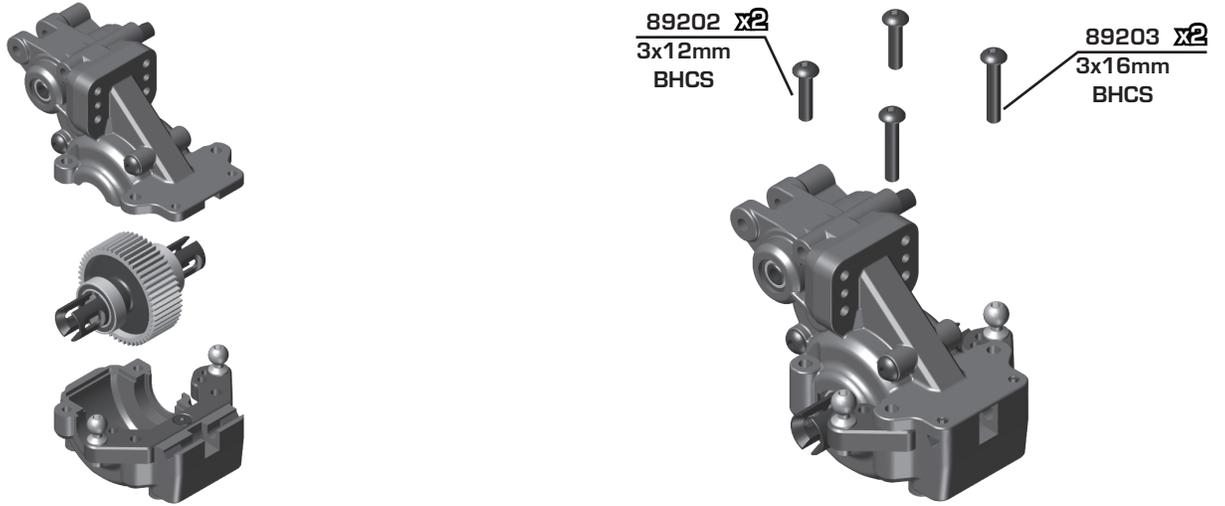
Bag 6 - Step 5



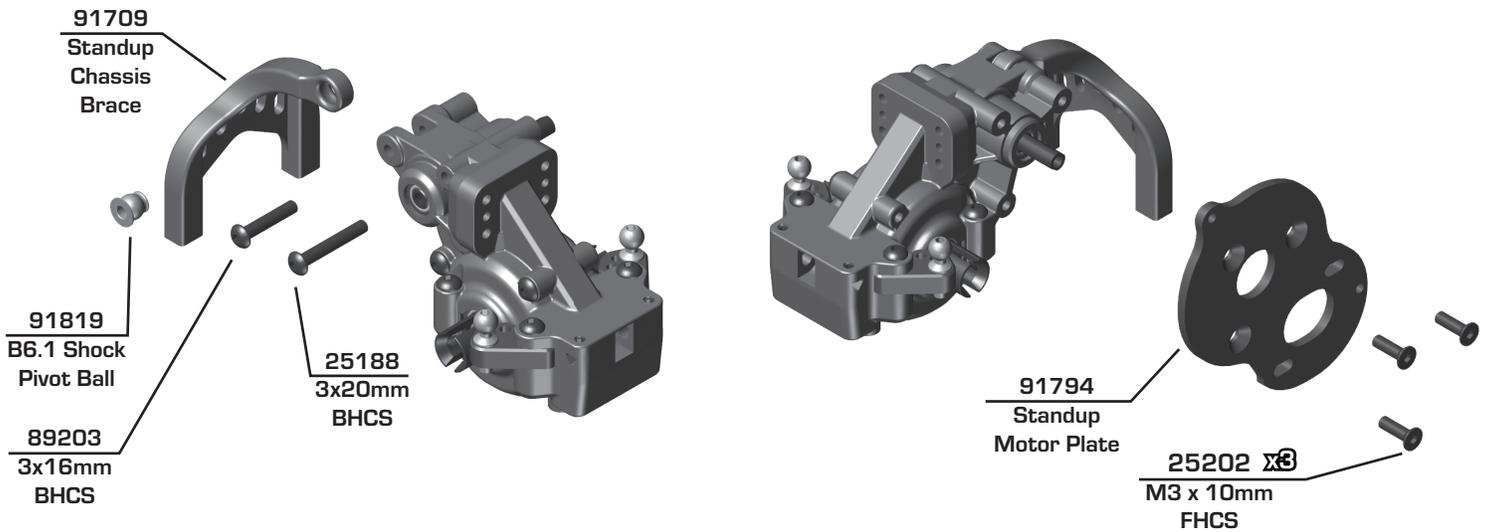
Bag 6 - Step 6



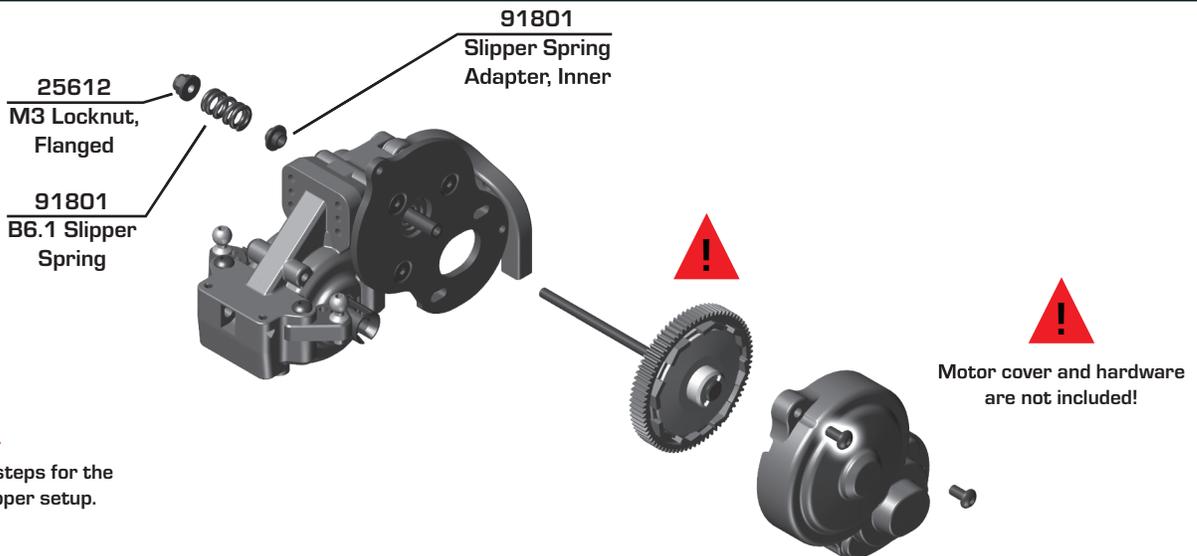
⚡ Bag 6 - Step 7



⚡ Bag 6 - Step 8



⚡ Bag 6 - Step 9

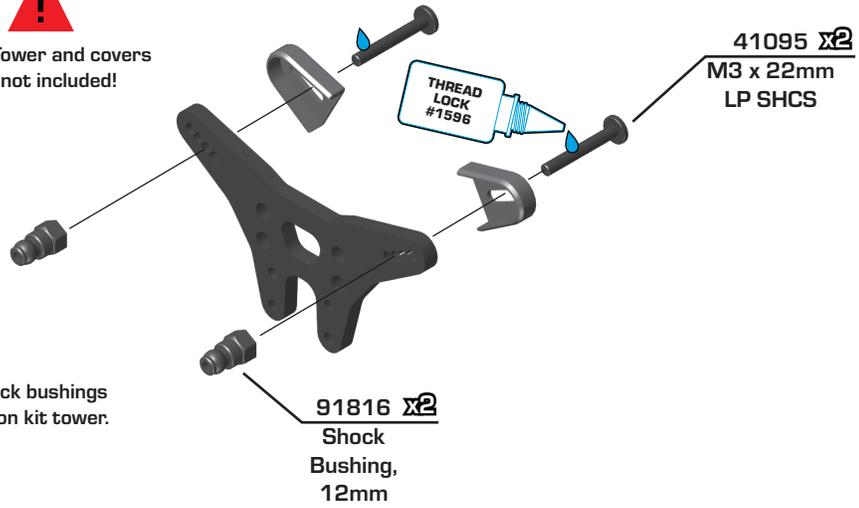


See previous build steps for the spur gear and slipper setup.

Bag 6 - Step 10

⚠ Shock Tower and covers are not included!

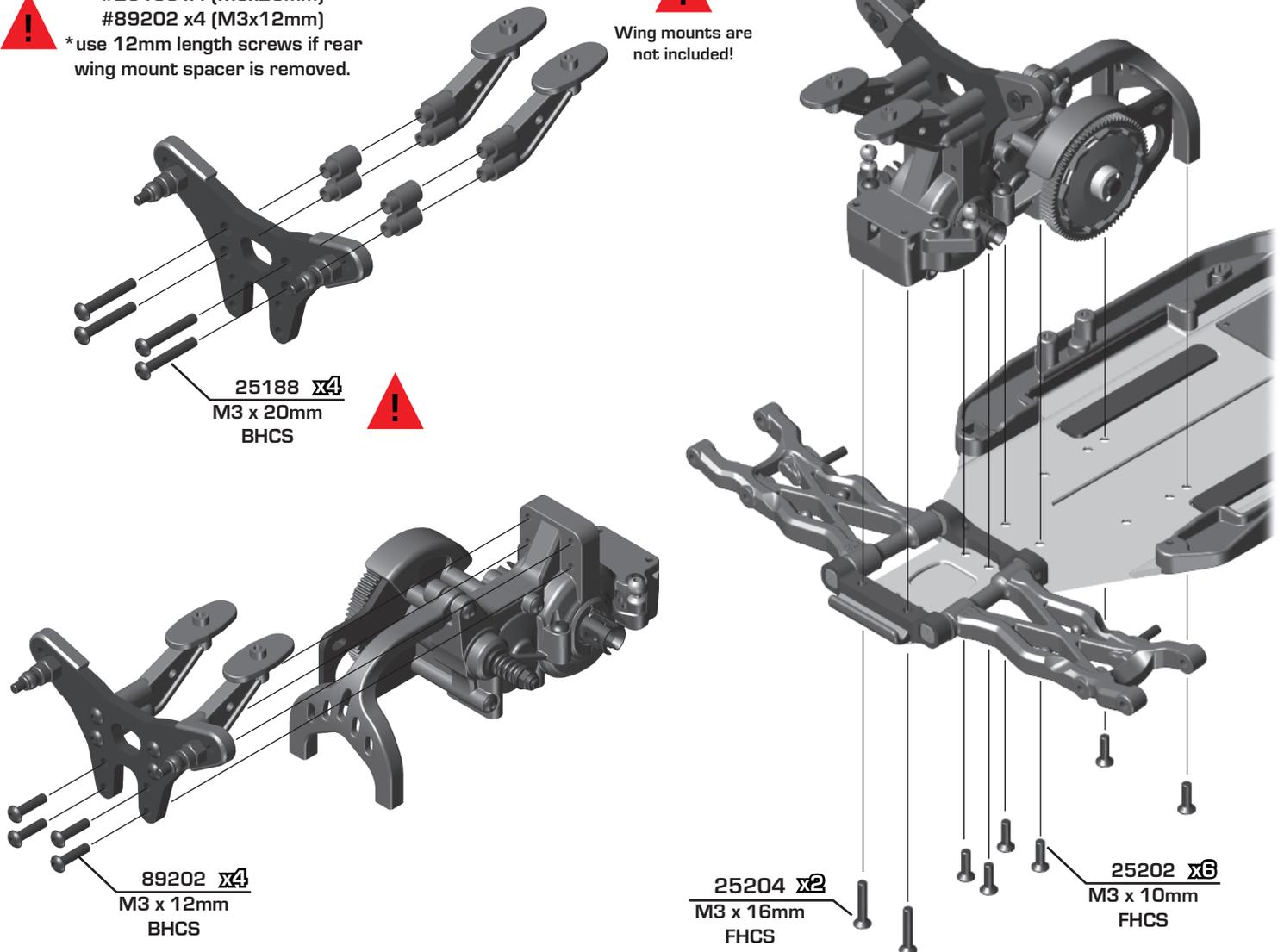
⚠ Mount screw and shock bushings to 3rd party conversion kit tower.



Bag 6 - Step 11

⚠ #25188 x4 (M3x20mm)
#89202 x4 (M3x12mm)
*use 12mm length screws if rear wing mount spacer is removed.

⚠ Wing mounts are not included!



Bag 7 - Step 1

91047
Heavy-duty Ballstud, 6mm

31382
Ballstud Washers, 5.5x1.0mm, blue

92441
Rear Hub Link Mount, +1mm

31383 x2
Ballstud Washers, 5.5x2.0mm, blue

92412
B7 Rear Hubs, Std

92413
Carbon B7 Rear Hubs, HRC

92179
Rear Hub Inserts

89202 x2
M3 x 12mm BHCS

81267 x2
M3 x 6mm Set Screw

Note: HRC and Std hubs included in Kit.
HRC allows for higher axle heights (+2 positions)

Build x2 (right and left side)

Rear Axle Height			
↑ 3	0 ↓		3 ↑ +3mm
↑ 2	↓ 1		2 ↑ +2mm
↓ 2	1 ↑		1 ↑ +1mm Kit Setup
↓ ε	0 ↑		0 ↑ +0mm

Bag 7 - Step 2

91860
CVA Bone, 69mm

91438
CVA Coupler

91859
CVA Axle, +2mm

91438
CVA Pin

91563
10 x 15 x 4 Bearing

91567
5 x 12 x 4 Bearing

Build x2

Build x2 (right and left side)

Bag 7 - Step 3

91436
CVA Wheel Hex Pin

91609
Clamping Wheel Hex, 5mm Offset (rear)

91611
M1.6 x 5mm SHCS

92188
Rear Hub Hinge Pin

25215
M3 Locknut

92179 x2
Rear Hub Spacer

Do not overtighten the 1.6 x 5mm SHCS into the Clamping wheel hex.

Hinge Pin will be tight in the rear hub, but should rotate freely in the rear arms.

Build x2 (right and left side)

Build x2 (right and left side)

:: Bag 8 - Step 1

Racers Tip:
Use black grease (#6588) on the threads of the turnbuckles for easier ball cup installation!

BLACK GREASE #6588

92308 Ball Cup

FACTORY TEAM
92360 Titanium Turnbuckle 3.5x48mm

92337 Turnbuckle 3.5x48mm

92308 Ball Cup

Measurements given are approximation. Camber should be set with a gauge at ride height.

Front Camber Turnbuckle
26.50mm

Build x2 (right and left side)

:: Bag 8 - Step 2

There are two offset ballcups labeled "1" and "2". The ballcup labeled "1" goes on the right side of the vehicle.

BLACK GREASE #6588

92308 Ball Cup

92337 Turnbuckle 3.5x48mm

92308 Ball Cup

Steering Turnbuckle
28.30mm

Build x2 (right and left side)

:: Bag 8 - Step 3

Measurements given are approximation. Camber should be set with a gauge at ride height.

BLACK GREASE #6588

92308 Ball Cup

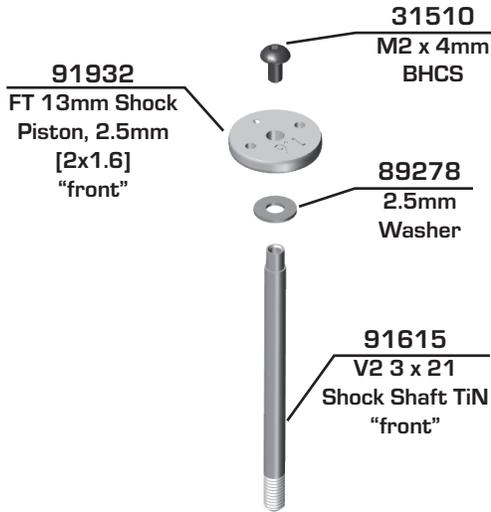
92337 Turnbuckle 3.5x48mm

92308 Ball Cup

Rear Camber Turnbuckle
27.40mm

Build x2 (right and left side)

Bag 9 - Step 1



!
Mount the shock pistons with the number facing up!



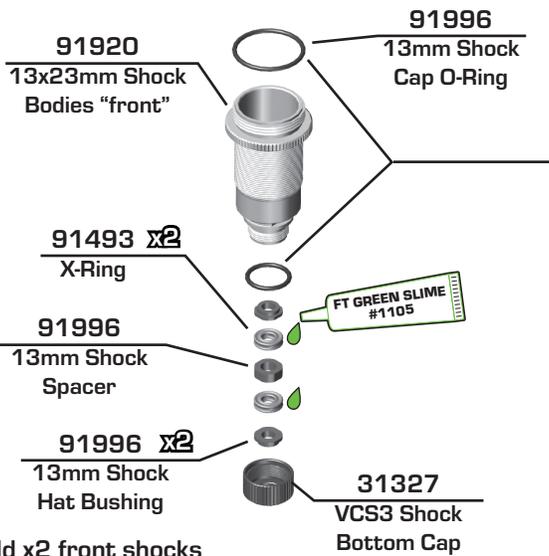
Racers Tip:
Use a marker over the numbers on the pistons to make them easily visible!



Build x2 front shocks

Build x2 rear shocks

Bag 9 - Step 2

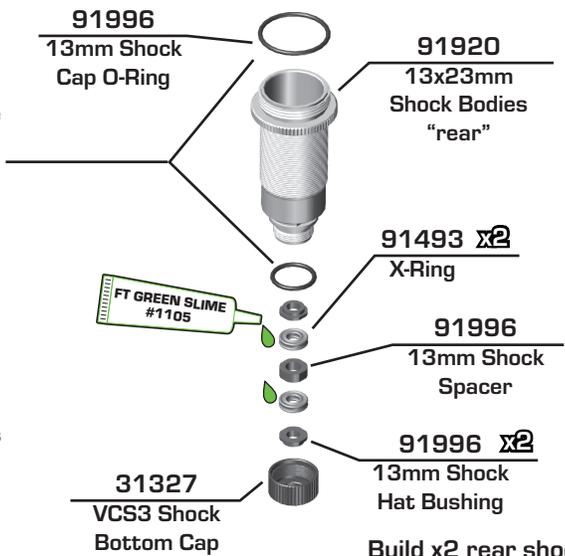


!
Lightly rub shock oil on the O-ring before installation!



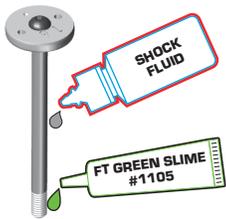
Racers Tip:
Coating the O-rings with green slime (#1105) helps seal & reduce O-ring swell! Green slime not included in kit!

Build x2 front shocks



Build x2 rear shocks

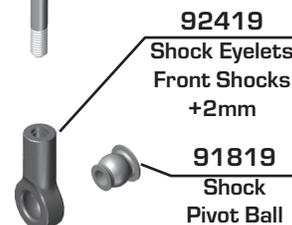
Bag 9 - Step 3



!
There are 3 lengths of shock eyelet in the kit. Pay attention to length when building as these affect your droop and uptravel.



!
Lightly rub shock fluid or green slime on threads



Build x2 front shocks



Build x2 rear shocks

Bag 9 - Step 4

*** Not included**
 Front Shock: 30wt #5422
 Rear Shock: 30wt #5422

Steps 2-3 Steps 4-5 Steps 6-7 Step 8

91926
 13mm Shock Cap

Shock Bleeding Steps:

1. Before assembly, get each bleed screw and thread it 1-2 turns into the shock cap, then remove the screw. This will make it easier when you are bleeding your shocks.
2. Pull shock shaft down.
3. Fill shock body 3/4 full with silicone shock fluid.
4. Slowly move the shock shaft up and down to remove air from under the piston.
5. Wait for bubbles to come to surface.
6. Fill shock body to top with silicone shock fluid.
7. Place a drop of oil in the cap and on cap threads.
8. Install cap (without bleed screw) and tighten completely.
9. Slowly compress shaft all the way to bleed excess silicone shock fluid out the hole in the cap (use rag around shock to catch excess fluid).
10. Install M2x4mm button head screw until snug while shaft is fully compressed.

31510
 M2 x 4mm BHCS

Stroke
 Stroke
 Front: 23mm
 Rear: 23mm

Steps 9-10

Bag 9 - Step 5

91996 x4
 13mm Threaded Collar O-ring

91928 x4
 13mm Threaded Collar

Build x4

91945
 13mm Front Spring, Orange (4.30lb)

Build x2 Front Shocks

91944
 13mm Front Spring, Red (4.00lb)

Build x2 Rear Shocks

Racers Tip:
 Use your finger to rub shock fluid on the O-ring for smoother adjustment!

Bag 9 - Step 6

Build x2 front shocks

91966
 13mm Shock Spring Cup (Front - 5mm)

!

Screw collars to top.
 Use to adjust ride height.

Build x2 rear shocks

91966
 13mm Shock Spring Cup (Rear - 5mm)

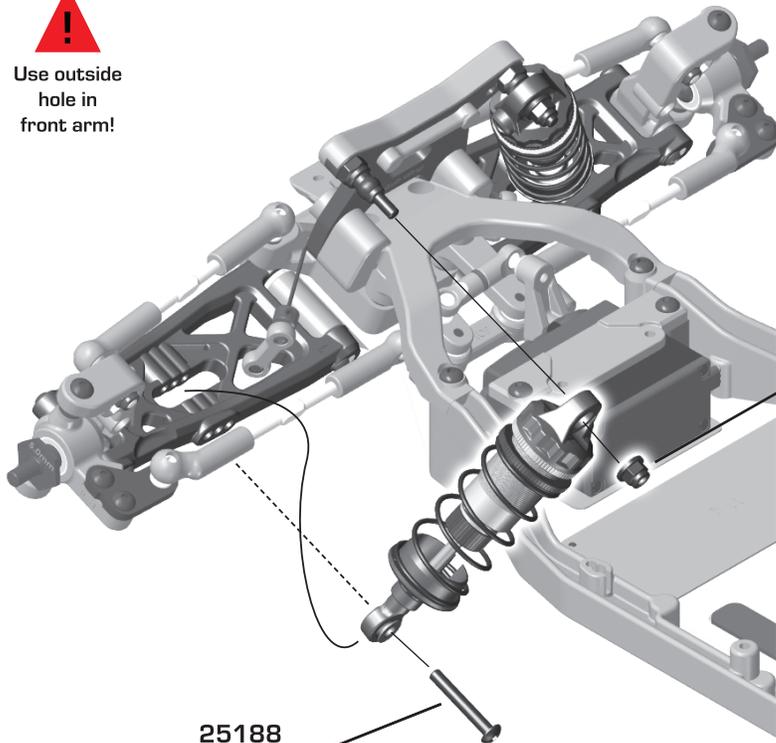
#91966 13mm Shock Spring Cups

0mm	5mm	9mm

⚡ Bag 9 - Step 7

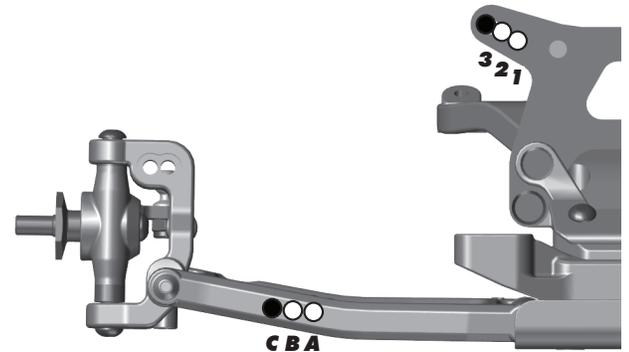


Use outside hole in front arm!



25188
M3 x 20mm
BHCS

25612
M3 Locknut
w/Flange

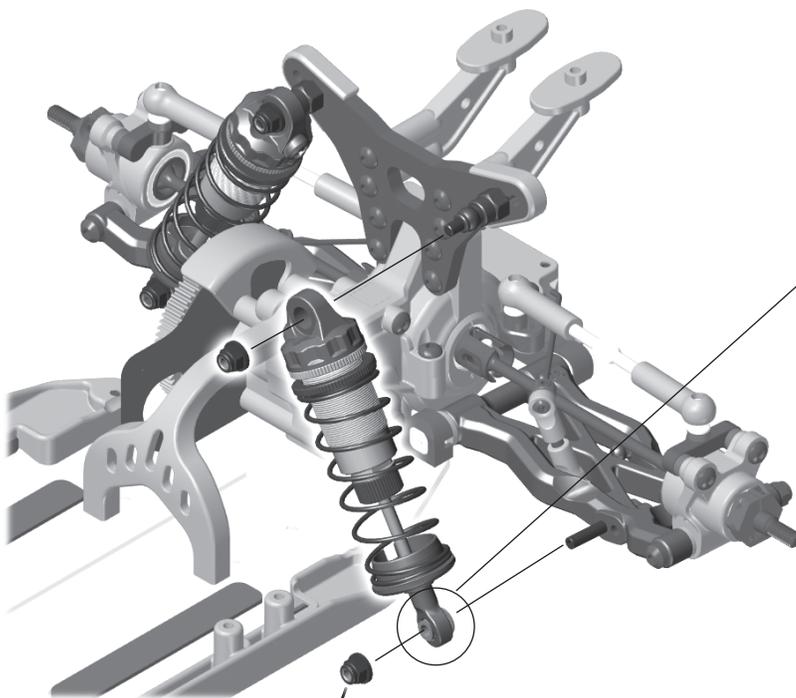


Build x2 (right and left side)

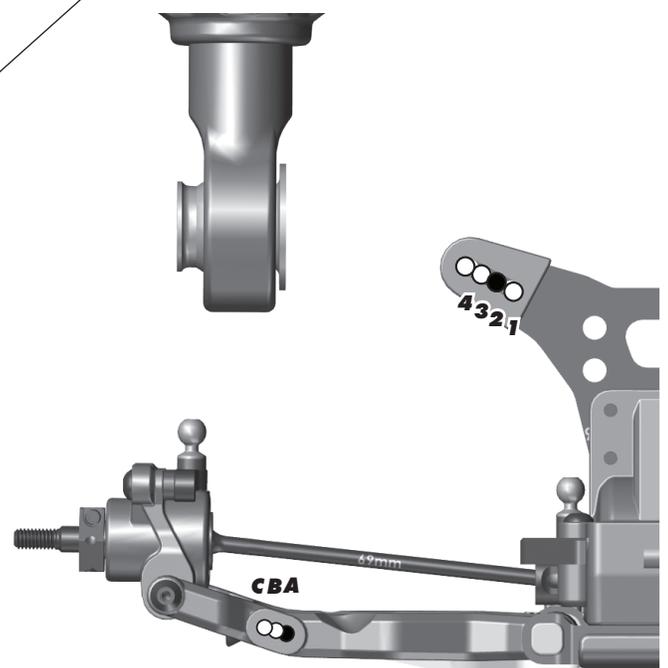
⚡ Bag 9 - Step 8



Make sure the flange on the shock pivot ball is towards the rear arm.



25612 x2
M3 Locknut w/
Flange



Build x2 (right and left side)

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 additional 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.

Rear Arm Mount Pill Insert Setup:

The aluminum rear arm mounts utilize eccentric pill inserts to make fine adjustments to anti-squat, toe, pin heights, and pin width. Adjustments can be made using the supplied inserts (#92014)

Standard Position

Use this position as a reference when changing pill locations.

Toe: 3°
Anti-squat: 2°
Roll Center: +0
Pivot Width: +0

Arm Mount C



Insert Hole Locations

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



Hole 0.5° or 0.35mm from center



Hole 1.0° or 0.7mm from center

Anti-squat Angle

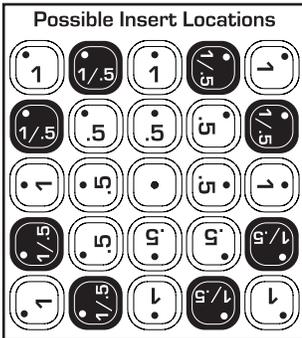
More angle = More anti-squat
Less angle = Less anti-squat
Shown in 1° changes

C Mount	D Mount	Angle
		= 1°
		= 0°
		= -1°
		= 2°
		= 1°
		= 0°
		= 3°
		= 2°
		= 1°

Toe Angle

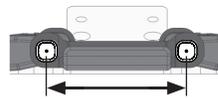
More angle = More toe in
Less angle = Less toe in
Shown in 1° changes

C Mount	D Mount	Angle
		= 3°
		= 4°
		= 5°
		= 2°
		= 3°
		= 4°
		= 1°
		= 2°
		= 3°



Pin Width

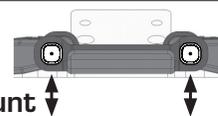
More distance = wider pivot
Less distance = narrow pivot
*Note: For pin width -1.4mm, use 67mm CVA driveshafts



C Mount	D Mount	Pin Width
		= +1.4mm
		= +0.7mm
		= 0mm
		= -0.7mm
		= -1.4mm*

Pin Height

Higher pin = Higher roll center
Lower pin = lower roll center



C Mount	D Mount	Pin Height
		= +0.7mm
		= +0.35mm
		= 0mm
		= -0.35mm
		= -0.7mm



For additional setup tips, please visit our website by using the link or QR code below.

<http://bit.ly/B6PillChart>



⚙️ Tuning Tips (cont.)

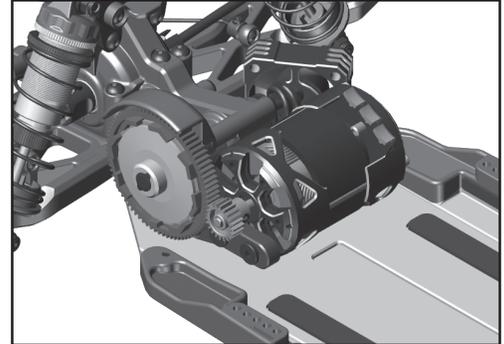
Motor Gearing:

Proper motor gearing will result in maximum performance and run time while reducing the chance of overheating and premature motor failure. The gear ratio chart lists recommended starting gear ratios for the most widely used motor types. Gear ratios will vary depending upon motor brand, wind, and electronic speed control. Consult your motor and electronic speed control manufacturers for more information. Team Associated is not responsible for motor damage due to improper gearing.

B7 Gear Ratio Chart (Internal Gear Ratio 2.60:1)

Motor	Pinion	Spur	Final Drive Ratio
21.5 Reedy S-Plus Brushless	33	72	5.67:1
17.5 Reedy S-Plus Brushless	29	72	6.45:1
13.5 Reedy S-Plus Brushless	27	*75	7.22:1
10.5 Reedy 540-M4 Brushless	24	78	8.45:1
9.5 Reedy 540-M4 Brushless	23	78	8.82:1
8.5 Reedy 540-M4 Brushless	22	78	9.22:1
7.5 Reedy 540-M4 Brushless	21	78	9.65:1
6.5 Reedy 540-M4 Brushless	20	78	10.14:1

*75T spur gear (#92294) not included



Set The Gear Mesh:

You should be able to rock the spur gear back and forth in the teeth of the pinion gear without making the pinion gear move. If the spur gear mesh is tight, then loosen the #41096 screws (p.19) and move the motor away, then try again. A gear mesh that is too tight or too loose will reduce power and damage the gear teeth.

Diff Height Adjustment:

The diff height adjustment (p.12) is a good way to tune the car for grip level. On high grip with low ride heights, a higher diff height will be a good option. On lower grip with higher ride heights, a lower diff height will be better.

Slipper Clutch:

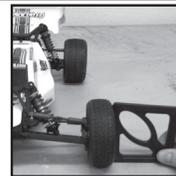
The assembly instructions give you a base setting for your clutch. Turn the nut on the shaft so that the end of the top shaft is even with the outside of the nut. At the track, tighten or loosen the nut in 1/8 turn increments until you hear a faint slipping sound for 1-2 feet on takeoffs. Another popular way to set the clutch is to hold both rear tires firmly in place and apply short bursts of throttle. If the clutch is properly set, the front tires should lift slightly up off the surface.

Caster:

Caster describes the angle of the caster block as it leans toward the rear of the vehicle. Positive caster means the kingpin leans rearward at the top. The kit includes three inserts to adjust caster angle at the caster block, 0°, 2.5°, and +5°. The total caster angle is the sum of the kick-up angle and the caster block angle. Standard total caster angle for the B6 is 30°, with 25° kick-up and +5° caster block angle. For less entry steering and more exit steering, try 0° caster block angle.

Front Camber:

Camber describes the angle at which the tire and wheel rides when looked at from the front. Negative camber means that the tire leans inward at the top. A good starting camber setting is -1°. Positive camber, where the top of the tire is leaning out, is not recommended. A camber gauge can be used to more accurately set camber.



Testing camber with
camber gauge

Rear Camber:

Camber describes the angle at which the tire and wheel rides when looked at from the back. Negative camber means that the tire leans inward at the top. A good starting camber setting is -1°. Adding a small amount of positive camber, where the top of the tire is leaning out, will tend to improve straight-line acceleration on loose tracks. A camber gauge can be used to more accurately set camber.



Associated Electrics, Inc.
21062 Bake Parkway Lake Forest, CA 92630 USA

call: (949) 544-7500 - fax: (949) 544-7501
Check out the following web sites for all of our kits, current products,
new releases, setup help, tips, and racing info!
www.AssociatedElectrics.com

FOLLOW US ON SOCIAL MEDIA



TeamAssociated
ReedyPower
ElementRC
FactoryTeam51



@TeamAssociatedRC
@ReedyPower
@Element_RC
@FactoryTeam_RC



@Team_Associated
@ReedyPower



@Associated_Electrics



TeamAssociatedRC
ElementRC



TeamAssociated
Reedy
Element-rc