



# XRAY X12

1/12 PAN CAR

MADE IN  
EUROPE

## INSTRUCTION MANUAL

## BEFORE YOU START

The X12 Link is a high-quality, 1/12-pan car intended for persons aged 16 years and older with previous experience building and operating RC model racing cars. This is not a toy; it is a precision car model. This model racing car is not intended for use by beginners, inexperienced customers, or by children without direct supervision of a responsible, knowledgeable adult. If you do not fulfill these requirements, please return the kit in unused and unassembled form back to the shop where you have purchased it. Before building and operating your X12 Link, YOU MUST read through all of the operating instructions and instruction manual and fully understand them to get the maximum enjoyment and prevent unnecessary damage. Read carefully and fully understand the instructions before beginning assembly. Make sure you review this entire manual and examine all details carefully. If for some reason you decide the X12 Link is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your X12 Link kit for return or exchange after it has been partially or fully assembled.

Contents of the box may differ from pictures. In line with our policy of continuous product development, the exact specifications of the kit may vary without prior notice.

## CUSTOMER SUPPORT

We have made every effort to make these instructions as easy to understand as possible. However, if you have any difficulties, problems, or questions, please do not hesitate to contact the XRAY support team at [info@teamxray.com](mailto:info@teamxray.com). Also, please visit our Web site at [www.teamxray.com](http://www.teamxray.com) to find the latest updates, set-up information, option parts, and many other goodies. We pride ourselves on taking excellent care of our customers.

You can join thousands of XRAY fans and enthusiasts in our online community at: [www.teamxray.com](http://www.teamxray.com)

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Failure to follow these instructions will be considered as abuse and/or neglect.

In line with our policy of continuous product development, the exact specifications of the kit may vary. In the unlikely event of any problems with your new kit, you should contact the model shop where you purchased it, quoting the part number. We reserve all rights to change any specification without prior notice. All rights reserved.

## SYMBOLS USED

Part bags used 	Assemble in the specified order 	Assemble left and right sides the same way 	Pay attention here 	Assemble as many times as specified (here twice) 	Apply CA glue 	Apply oil 	Apply grease 	Ensure smooth non-binding movement 	Follow Set-up Book 
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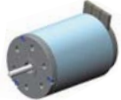









## EQUIPMENT INCLUDED TOOLS REQUIRED

XRAY Premium Silicone Oil 700cSt (#359270) & Silicone Oil 3000cSt (#359303) 	Diff. Grease (HUDY #106211) 	Allen Wrench 1.5mm (HUDY #111540) 	Allen Wrench 2.0mm (HUDY #112040) 	Allen Wrench 2.5mm (HUDY #112540) 	Socket Driver 5.5mm (HUDY #170055) 
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## TOOLS REQUIRED

Pliers (HUDY #189020) 	Scissors (HUDY #188990) 	Side Cutters (HUDY #189010) 	Hobby Knife 	File 	Turnbuckle 3mm (HUDY #181030) 	Turnbuckle 4mm (HUDY #181040) 	Reamer (HUDY #107600) 
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## EQUIPMENT REQUIRED

Transmitter 	Receiver 	Steering Servo 	Speed Controller 	Electric Motor 	Pinion Gear and Setscrew 	Bodyshell 
LiPo Battery Pack 	Battery Charger 	Front & Rear Tires 	Tire Truer (HUDY #102003) 	Bearing Oil (HUDY #102230) 	Fibre Tape (HUDY #107870) 	Lexan™ Paint 

## GRAPHITE PART PREPARATION

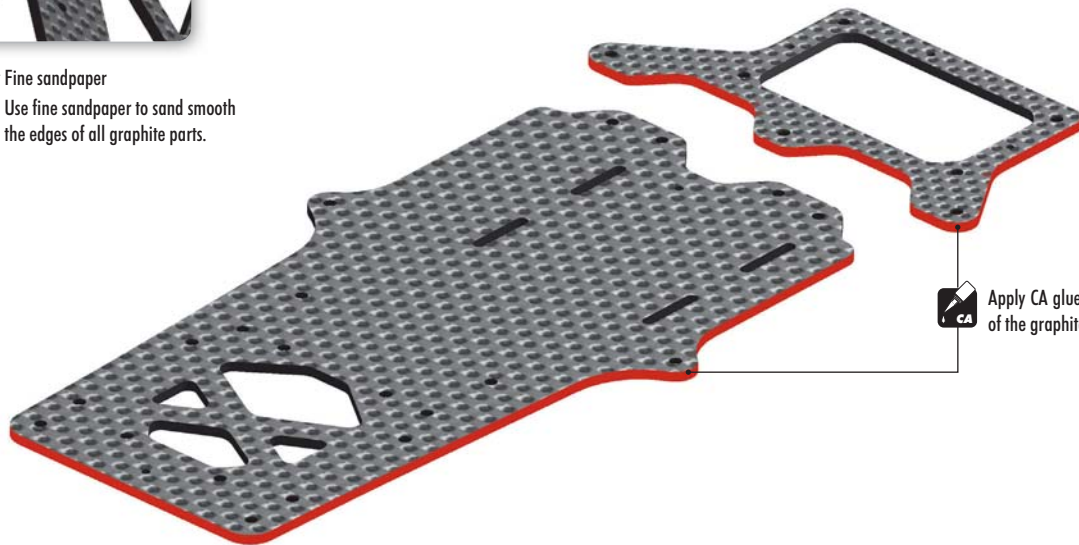
### PREPARE ALL GRAPHITE PARTS

To protect and seal edges of graphite parts, sand edges smooth and then apply CA glue.



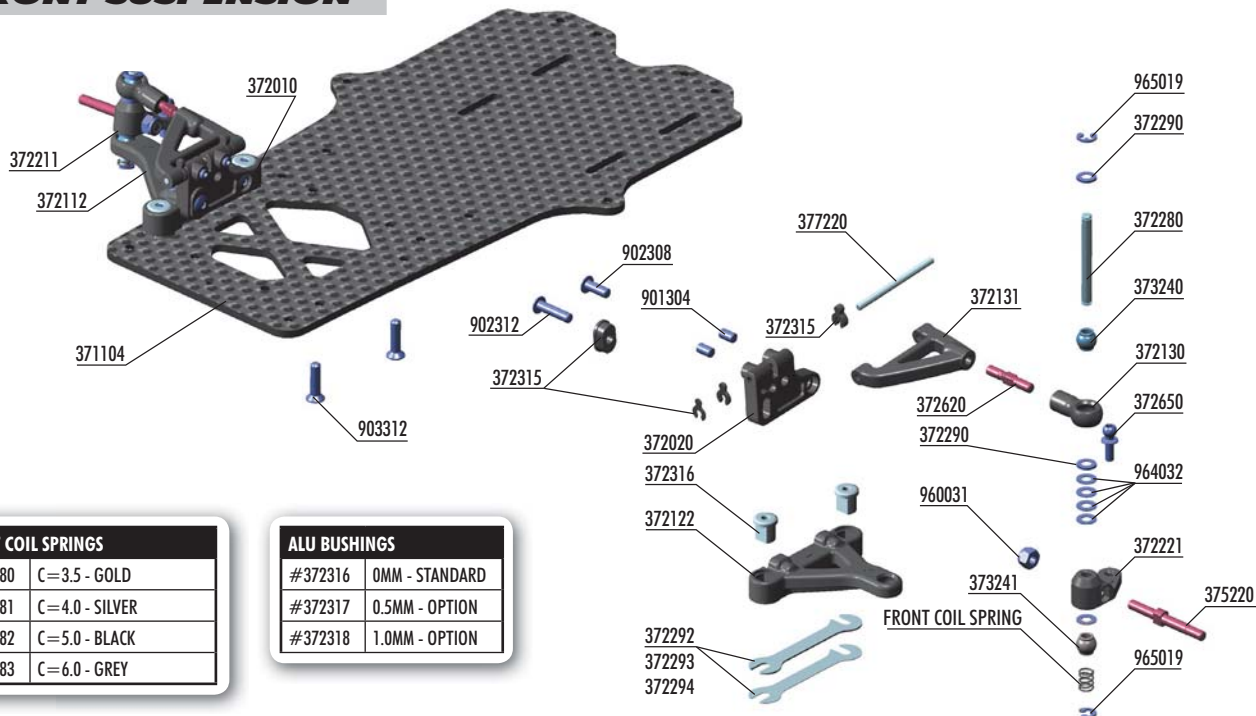
Fine sandpaper

Use fine sandpaper to sand smooth the edges of all graphite parts.



Apply CA glue to all edges of the graphite parts.

# 1. FRONT SUSPENSION



## FRONT COIL SPRINGS

#372180	C=3.5 - GOLD
#372181	C=4.0 - SILVER
#372182	C=5.0 - BLACK
#372183	C=6.0 - GREY

## ALU BUSHINGS

#372316	0MM - STANDARD
#372317	0.5MM - OPTION
#372318	1.0MM - OPTION

**BAG**



- 371104 X12'14 LINK CHASSIS - 2.5MM GRAPHITE
- 372010 COMPOSITE FRONT UPPER ARM MOUNT - RIGHT
- 372020 COMPOSITE FRONT UPPER ARM MOUNT - LEFT
- 372112 COMPOSITE SUSPENSION ARM FRONT LOWER - RIGHT - HARD
- 372122 COMPOSITE SUSPENSION ARM FRONT LOWER - LEFT - HARD
- 372130 COMPOSITE FRONT UPPER SUSPENSION ARM & BALL JOINT
- 372131 COMPOSITE FRONT UPPER SUSPENSION ARM - HARD
- 372180 FRONT COIL SPRING 3.6x6x0.5MM; C=3.5 - GOLD (2)
- 372211 COMPOSITE STEERING BLOCK - RIGHT - HARD
- 372221 COMPOSITE STEERING BLOCK - LEFT - HARD

- 372280 KING PIN (2)
- 372290 ALU SHIM 3.2x4.8x0.5 (4)
- 372292 STEEL SHIM 0.2MM - SILVER (2)
- 372293 STEEL SHIM 0.4MM - BLACK (2)
- 372294 STEEL SHIM 0.6MM - GOLD (2)
- 372315 COMPOSITE ECCENTRIC BUSHINGS + CASTER CLIPS (2)
- 372316 ALU ECCENTRIC BUSHING 0.0MM (2)
- 372620 ADJ. TURNBUCKLE M3x17 MM - HUDY SPRING STEEL™ (2)
- 372650 BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)
- 373240 PIVOTBALL UNIVERSAL 6.0 MM - HUDY SPRING STEEL (2)

- 373241 COMPOSITE PIVOTBALL 6.0 MM (2)
- 375220 FRONT WHEEL AXLE (2)
- 377220 FRONT UPPER PIVOT PIN 2x31MM (2)
- 901304 HEX SCREW SB M3x4 (10)
- 902308 HEX SCREW SH M3x8 (10)
- 902312 HEX SCREW SH M3x12 (10)
- 903312 HEX SCREW SFH M3x12 (10)
- 960031 ALU NUT M3 (10)
- 964032 WASHER S 3.2 x 4.8 x 0.2 (10)
- 965019 E-CLIP 1.9 (10)

**1.** **2x** **L=R**

3x12 **4**

3x8 **2**

Marked "L"

**1**

**LEFT**

**3**

**5**

COMPOSITE BALL

REACTIVE CASTER SETTING	
	= 2.5°
	= 5° INITIAL SETTING
	= 7.5°

Use same bushings in left and right sides.

**ASSEMBLED VIEW**

**RIGHT**

**SET-UP BOOK**  
CASTER

**902308**  
SH M3x8

**902312**  
SH M3x12

**2.** **2x** **L=R**

**!** NOTE ORIENTATION

STEEL BALL

5.2mm

5.2mm

**!** NOTE ORIENTATION

**ASSEMBLED VIEW**

**RIGHT**

**SET-UP BOOK**  
CAMBER

**3.** **2x** **L=R**

**1** **LEFT**

**2**

**3** 2mm

**4** 1+0.5mm

**5**

**LEFT**

**SET-UP BOOK**  
CASTER

**ASSEMBLED VIEW**

**RIGHT**

**!** Make sure that arm moves freely.

If the arm does not have enough play, remove the clips and thin the clips slightly with sandpaper. The arms must have free movement and not bind.

**ASSEMBLED VIEW**

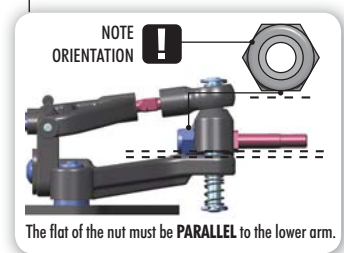
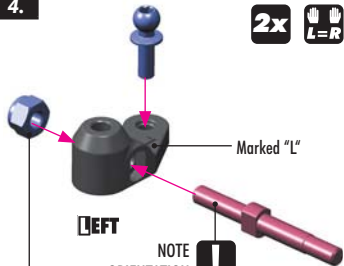
**RIGHT**

**!** Moves freely

**901304**  
SB M3x4

4.

2x L=R

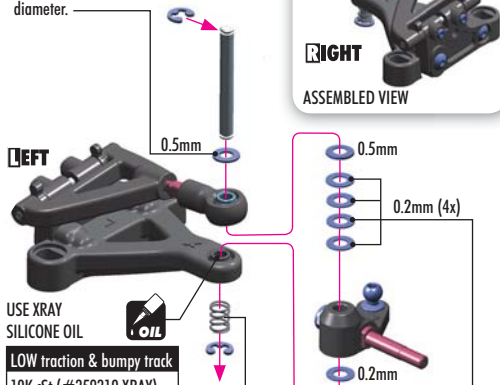


960031  
ALU N M3

5.

2x L=R

The number of shims used affects the ride height of the car, so determine the proper amount of shimming based on your tire diameter.



372290  
S 3.2x4.8x0.5



964032  
S 3.2x4.8x0.2



965019  
C 1.9

6.

2x L=R

The X12'14 Link has adjustable track-width of the front suspension. There are 3 different bushings - 0mm centric (in the kit), 0.5mm eccentric (optional), and 1mm eccentric bushing (optional). Use the same bushing in front and rear and also use the same orientation of the bushing on both right and left side.

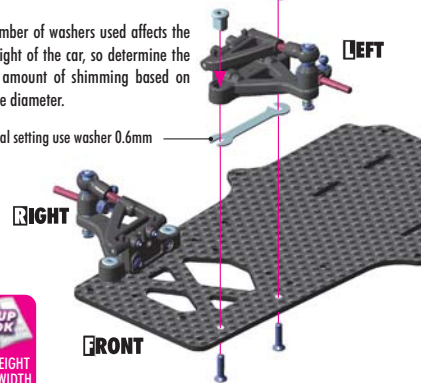
Use the proper bushing, to achieve requested front track-width.

**LEFT + RIGHT = TRACK WIDTH**

	-1mm		<b>165mm</b>
	-0.5mm		<b>166mm</b>
	0mm		<b>167mm</b> ← Initial setting
	+0.5mm		<b>168mm</b>
	+1mm		<b>169mm</b>

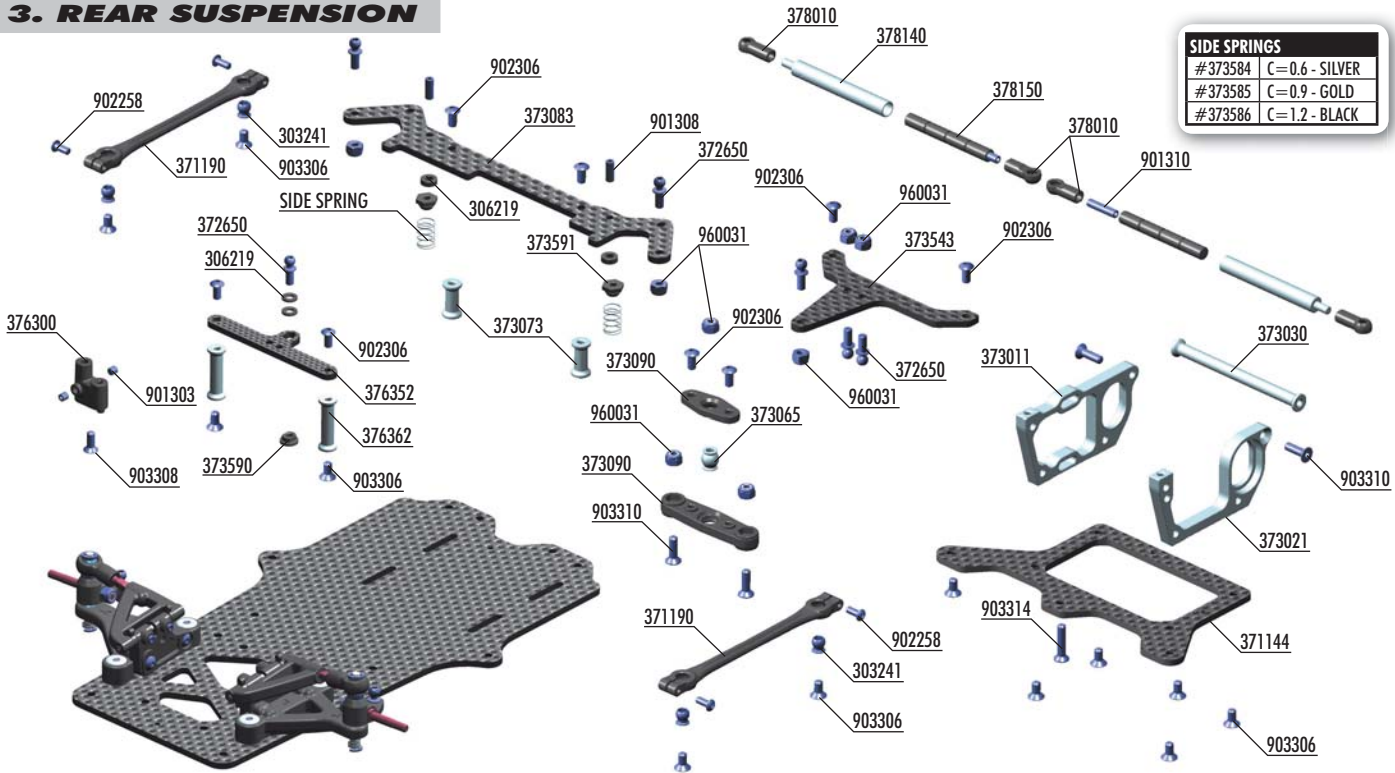
The number of washers used affects the ride height of the car, so determine the proper amount of shimming based on your tire diameter.

For initial setting use washer 0.6mm



903312  
SFH M3x12

### 3. REAR SUSPENSION



SIDE SPRINGS	
#373584	C=0.6 - SILVER
#373585	C=0.9 - GOLD
#373586	C=1.2 - BLACK

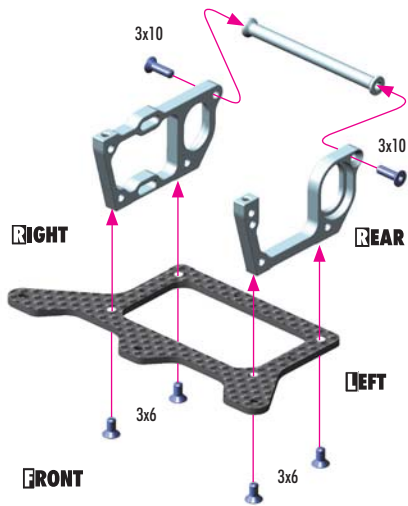
**BAG**

**03**

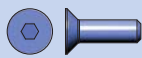
- |   |   |                                      |                                 |
|---|---|--------------------------------------|---------------------------------|
| 303241 BALL UNIVERSAL 5.8 MM HEX (4)                  | 373065 PIVOTBALL - HUDY SPRING STEEL (2)    | 376300 COMPOSITE ANTENNA MOUNT       | 901310 HEX SCREW SB M3x10 (10)  |
| 306219 COMPOSITE SET OF SERVO SHIMS (4)               | 373073 ALU REAR BRACE MOUNT 16MM (2)        | 376352 GR. PLATE FOR ANTENNA HOLDER  | 902258 HEX SCREW SH M2.5x8 (10) |
| 371144 LINK GRAPHITE 2.5MM REAR POD LOWER PLATE       | 373083 LINK REAR BRACE - GRAPHITE 2.5MM     | 376362 ALU ANTENNA HOLDER MOUNT (2)  | 902306 HEX SCREW SH M3x6 (10)   |
| 371190 COMPOSITE POD LINK (2)                         | 373090 COMPOSITE LOWER & UPPER PIVOT BRACE  | 378010 COMPOSITE SHOCK PARTS - FRAME | 903306 HEX SCREW SFH M3x6 (10)  |
| 372650 BALL-END 4.2MM THREADED HUDY SPRING STEEL™ (2) | 373543 LINK REAR POD UPPER PLATE - GRAPHITE | 378140 SIDE LINKAGE TUBE (2)         | 903308 HEX SCREW SFH M3x8 (10)  |
| 373011 ALU REAR BULKHEAD - MOTOR (RIGHT)              | 373585 SIDE SPRING C=0.9 - GOLD (2)         | 378150 SIDE SHOCK SHAFT (2)          | 903310 HEX SCREW SFH M3x10 (10) |
| 373021 ALU REAR BULKHEAD - LEFT                       | 373590 COMPOSITE SPRING HOLDER (2)          | 901303 HEX SCREW SB M3x3 (10)        | 903314 HEX SCREW SFH M3x14 (10) |
| 373030 ALU REAR BULKHEAD BRACE                        | 373591 COMPOSITE SIDE SPRING HOLDER (2)     | 901308 HEX SCREW SB M3x8 (10)        | 960031 ALU NUT M3 (10)          |



1.



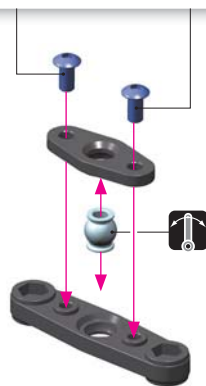
903306  
SFH M3x6



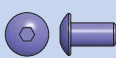
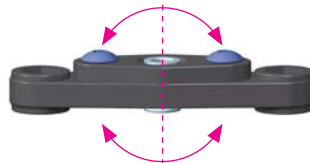
903310  
SFH M3x10

2.

Lightly tighten the screws so there is no free play, but do not overtighten otherwise the pivotball will not move freely.

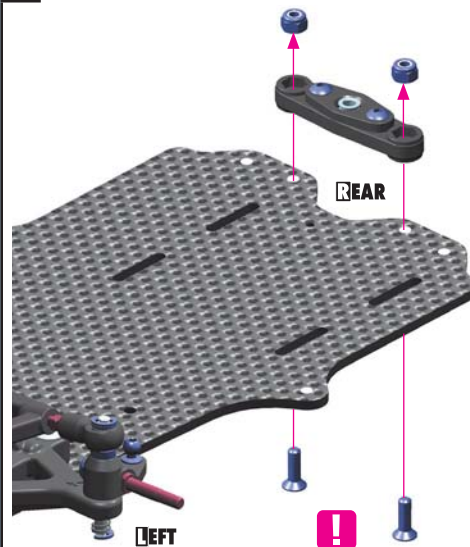


Ensure free, smooth movement without excessive freeplay.



902306  
SH M3x6

3.



960031  
ALU N M3



903310  
SFH M3x10

**4.**

REAR

LEFT

960031  
ALU N M3

903314  
SFH M3x14

**5.**

**2x**

DO NOT TIGHTEN FULLY,  
PIVOTBALLS MUST TURN  
FREELY.

ASSEMBLED VIEW

902258  
SH M2.5x8

903306  
SFH M3x6

**6.**

**2x**

REAR

RIGHT

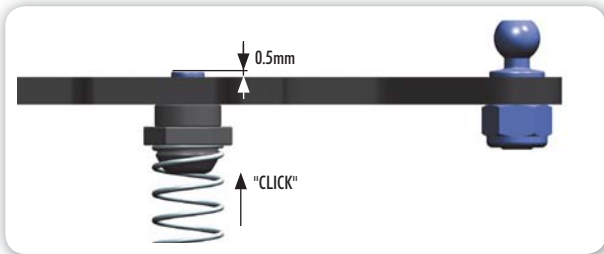
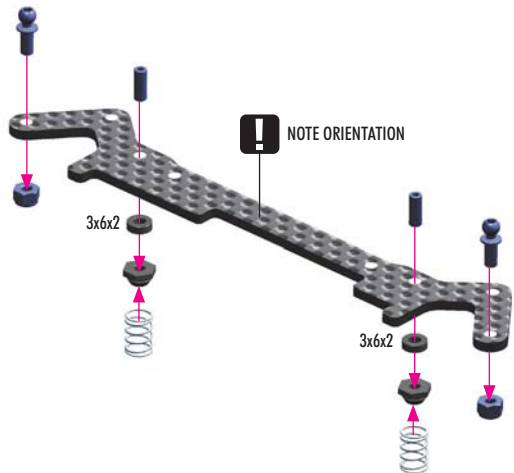
LEFT

FRONT

TIGHTEN  
FULLY

903306  
SFH M3x6

7.



306219  
SHIM 3x6x2

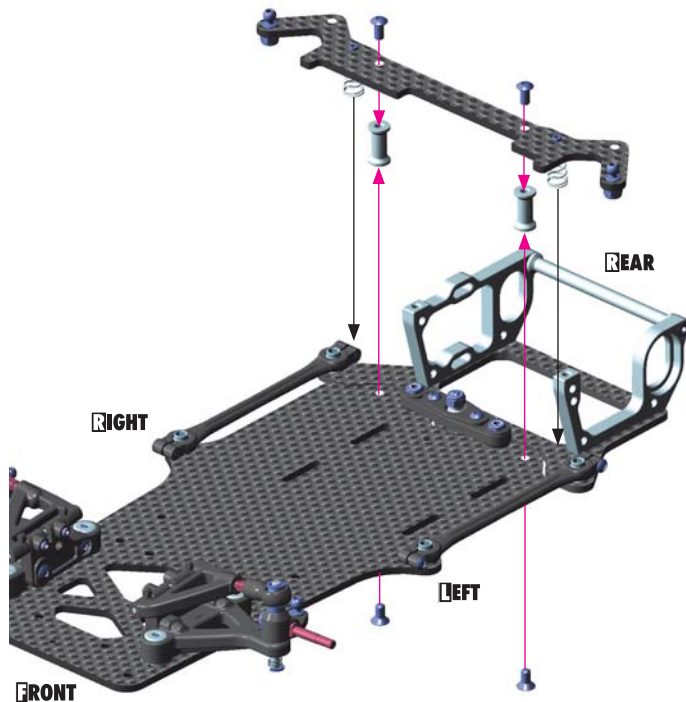


901308  
SB M3x8



960031  
ALU N M3

8.

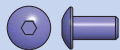
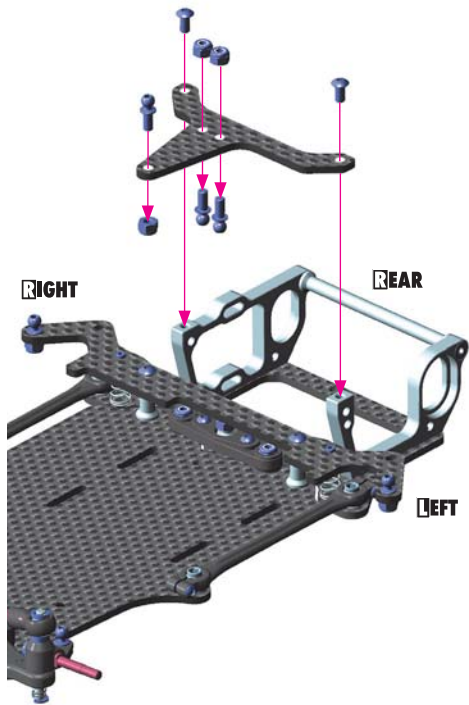


902306  
SH M3x6



903306  
SFH M3x6

9.

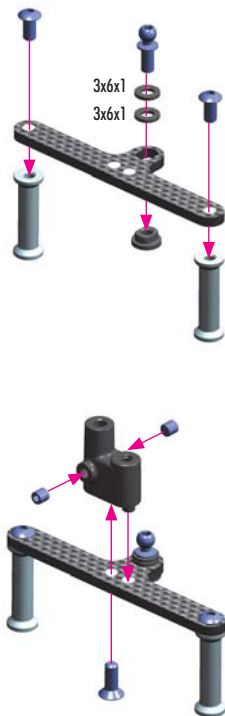


902306  
SH M3x6



960031  
ALU N M3

10.



306219  
SHIM 3x6x1

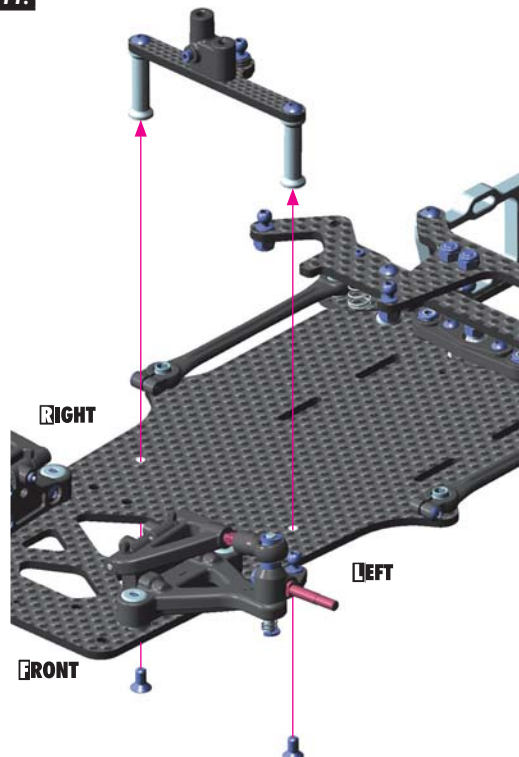


901303  
SB M3x3



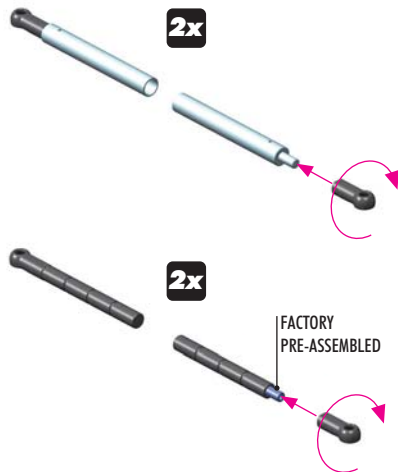
903308  
SFH M3x8

11.



903306  
SFH M3x6

12.



901310  
SB M3x10

13.



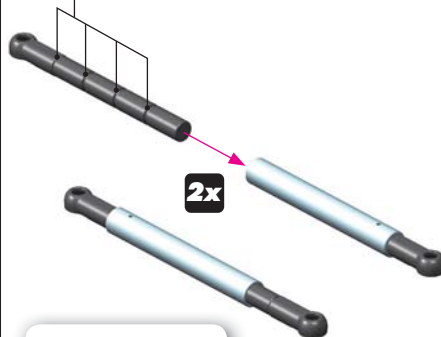
Add oil in each slot of the Derlin™ side shock tubes.

**NOTE:** Add oil only in the slots, not on the whole tube. After assembling the side tubes, check for smooth operation.

**NOTE:** It is very important to re-oil the side tubes, at least once per race day.

**NOTE:** You may use different oil thicknesses depending on track conditions.

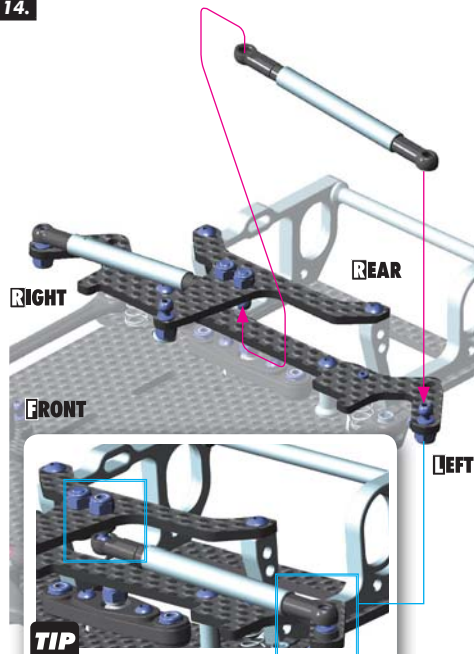
**TIP** For high grip: use harder oils  
For low grip or asphalt: use softer oils



## OILS

#359301	1000cSt
#359302	2000cSt
#359303	3000cSt
#359305	5000cSt
#359306	6000cSt
#359307	7000cSt
#359308	8000cSt
#359310	10000cSt

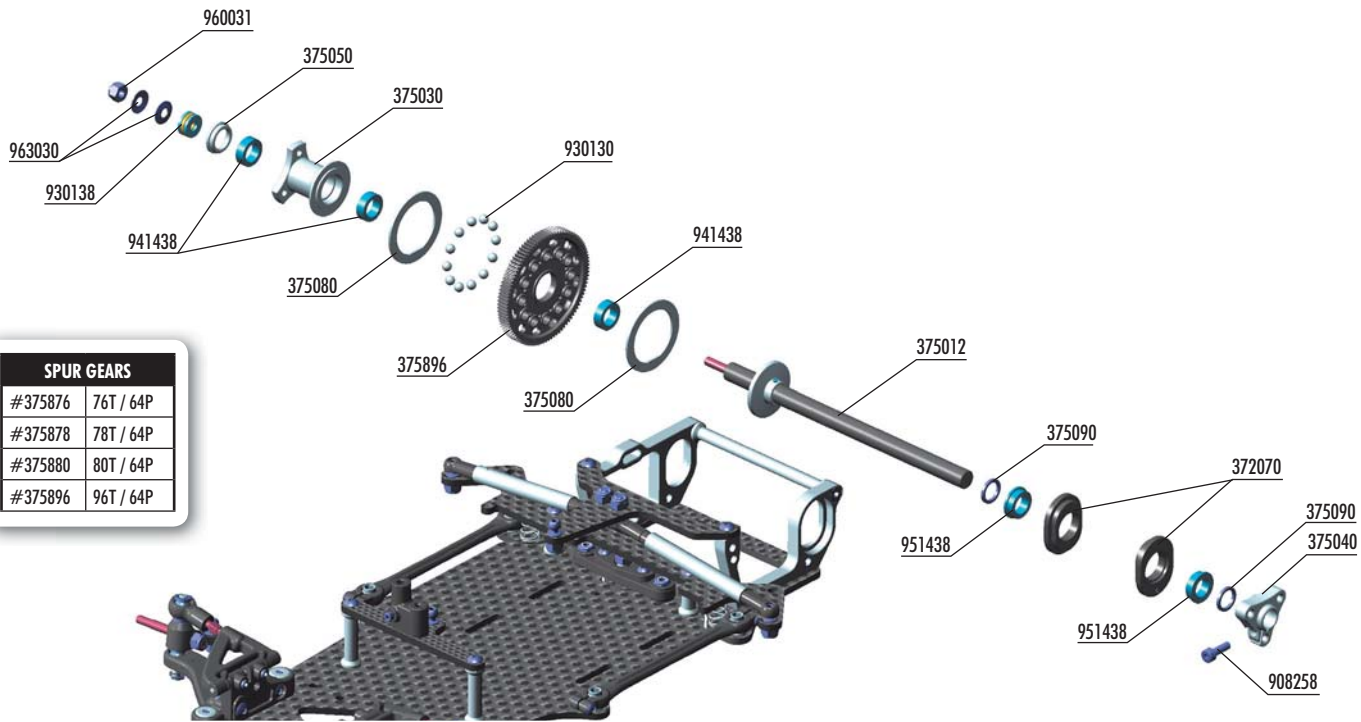
14.



## TIP

The angle of the side tubes has a fine effect on car performance. The higher the angle, the stiffer it feels and the less it rolls. The less (flatter) the angle, the softer it feels and the more it rolls.

## 4. BALL DIFFERENTIAL



### SPUR GEARS

#375876	76T / 64P
#375878	78T / 64P
#375880	80T / 64P
#375896	96T / 64P

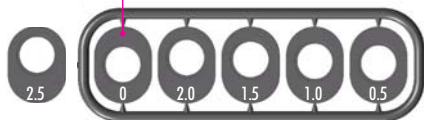
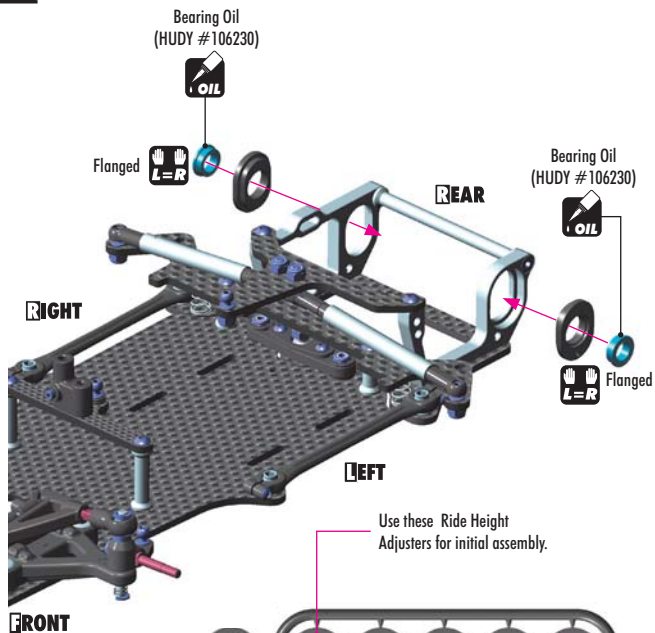
**BAG**

**04**

372070 COMPOSITE RIDE HEIGHT ADJUSTER SET (2)  
 375012 STEEL REAR AXLE SHAFT - HUDY SPRING STEEL™  
 375030 ALU REAR WHEEL HUB - RIGHT  
 375040 ALU REAR WHEEL HUB - LEFT  
 375050 ALU DIFF HUB  
 375080 D-LOCK DIFF PLATE (2)  
 375090 SET OF ALU SHIMS (0.5MM, 1.0MM, 2.0MM)  
 375896 COMPOSITE SPUR GEAR - 96T / 64P

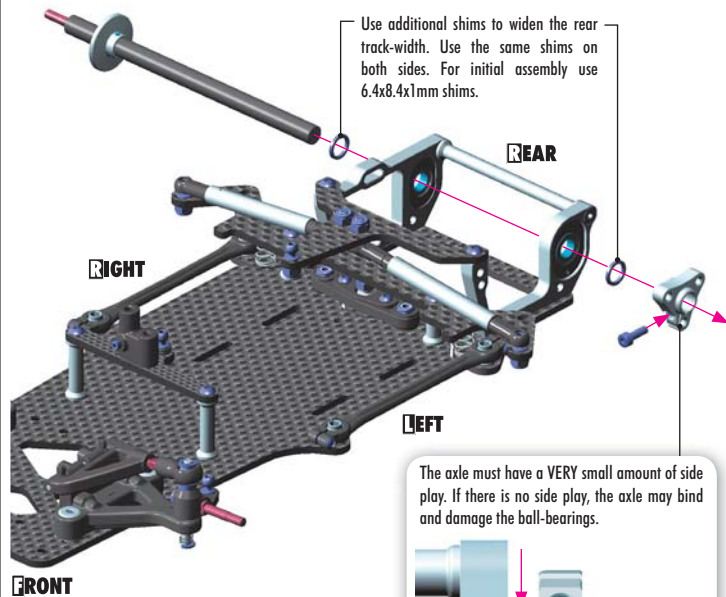
908258 HEX SCREW SOCKET HEAD CAP M2.5x8 (10)  
 930130 CARBIDE BALL 3.175MM (12)  
 930138 CARBIDE BALL-BEARING AXIAL F3-8 3x8x3.5  
 941438 HIGH-SPEED BALL-BEARING 1/4"x3/8"x1/8" RUBBER SEALED (2)  
 951438 BALL-BEARING 1/4" x 3/8" x 1/8" FLANGED (2)  
 960031 ALU NUT M3 (10)  
 963030 CONE WASHER ST 3x8x0.5 (10)

1.



951438  
BB 1/4"x3/8"x1/8"

2.

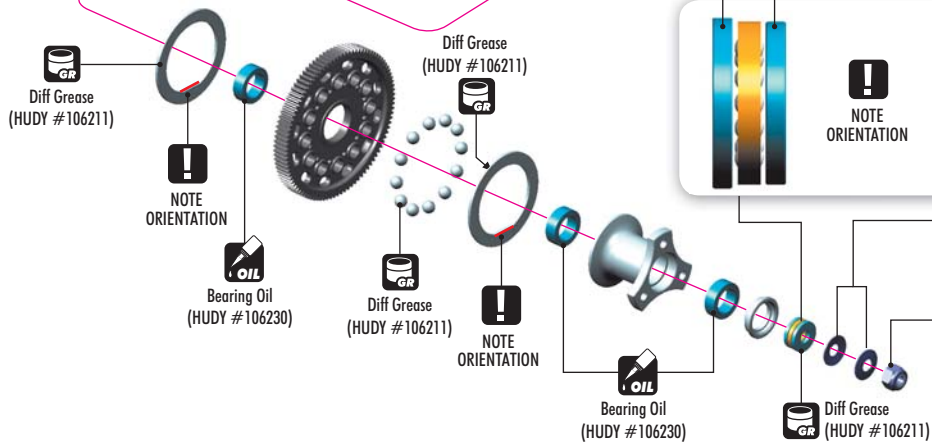
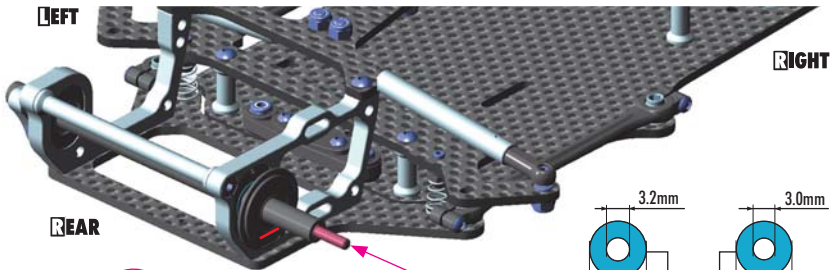


375090  
6.4x8.4x1.0



908258  
SCH M2.5x8

3.



930130  
B 3.1



930138  
BA 3x8



941438  
BB 1/4"x3/8"x1/8"



960031  
ALU N M3

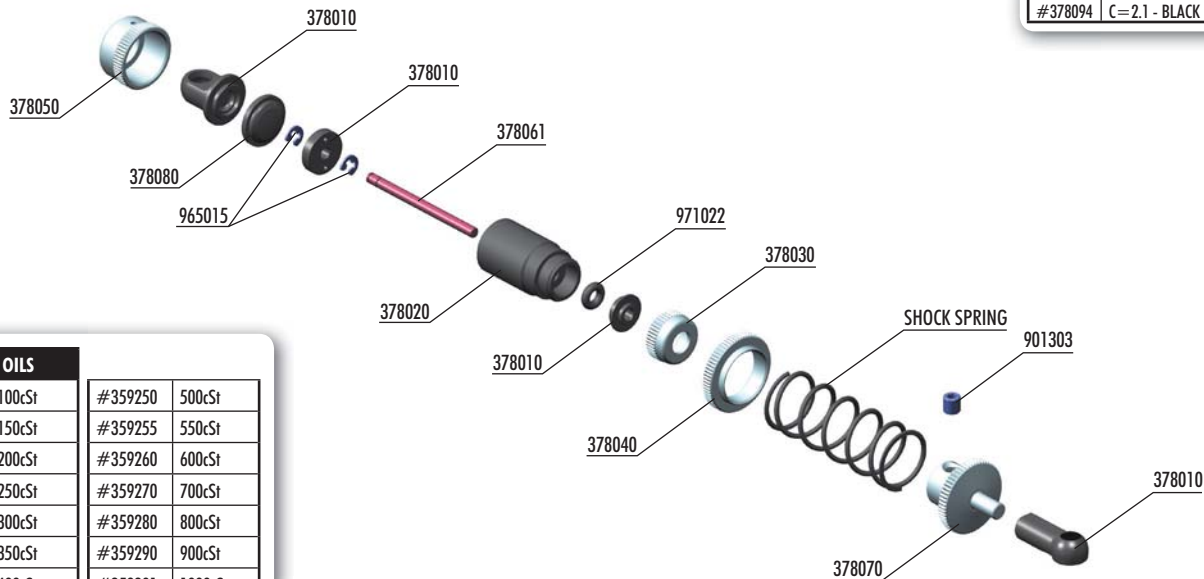


963030  
ST 3x8



## 5. SHOCK ABSORBER

SHOCK SPRINGS	
#378092	C=1.5 - SILVER
#378093	C=1.8 - GOLD
#378094	C=2.1 - BLACK



SHOCK OILS			
#359210	100cSt	#359250	500cSt
#359215	150cSt	#359255	550cSt
#359220	200cSt	#359260	600cSt
#359225	250cSt	#359270	700cSt
#359230	300cSt	#359280	800cSt
#359235	350cSt	#359290	900cSt
#359240	400cSt	#359301	1000cSt
#359245	450cSt	#359302	2000cSt

**BAG**

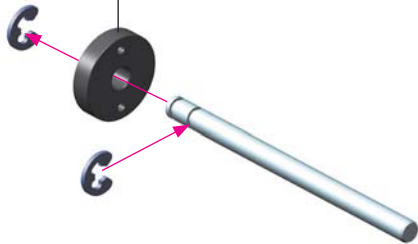


- |        |                                      |        |                           |
|--------|--------------------------------------|--------|---------------------------|
| 378001 | SHOCK ABSORBER SET                   | 378070 | ALU SHOCK SPRING COLLAR   |
| 378010 | COMPOSITE SHOCK PARTS - FRAME        | 378080 | SHOCK RUBBER MEMBRANE (2) |
| 378020 | ALU THREADED SHOCK BODY - HARDCOATED | 378093 | SHOCK SPRING - GOLD       |
| 378030 | ALU SHOCK BODY CAP - LOWER           |        |                           |
| 378040 | ALU SHOCK ADJUSTABLE COLLAR          | 901303 | HEX SCREW SB M3x3 (10)    |
| 378050 | ALU SHOCK BODY CAP - UPPER           | 965015 | E-CLIP 1.5 (10)           |
| 378061 | SHOCK SHAFT                          | 971022 | SILICONE O-RING 2x2 (10)  |

1.



Carefully remove the shock piston from the frame, and remove all excess plastic flash



965015  
C15

2.



Shock Oil

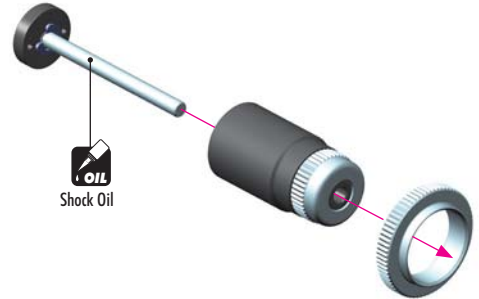


971022  
O 2x2

3.



Shock Oil



ASSEMBLED VIEW



#### 4. DEFAULT SHOCK SETTING FOR CENTER SHOCK ABSORBER

Follow the steps below to set the shock.



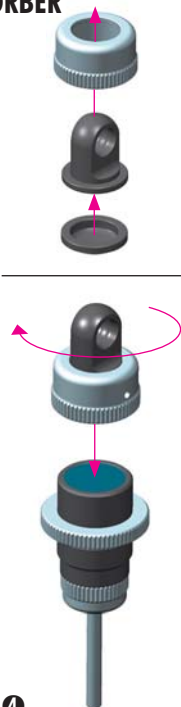
**1** Extend the shock shaft completely. Fill the shock body with the shock oil.



**2** Move the shock shaft up and down a few times to release the air bubbles trapped beneath the piston.



**3** Orient the filled shock vertically for several minutes with the shock shaft fully extended. The remaining air bubbles will release.



**4** Install the shock membrane into the groove in the upper shock cap.



**5** Gently place the shock cap assembly onto the filled shock body. Excess oil will spill from the shock. Screw the shock cap onto the body by only a few turns, approx. 50%. Excess oil will flow through the hole in the shock cap.



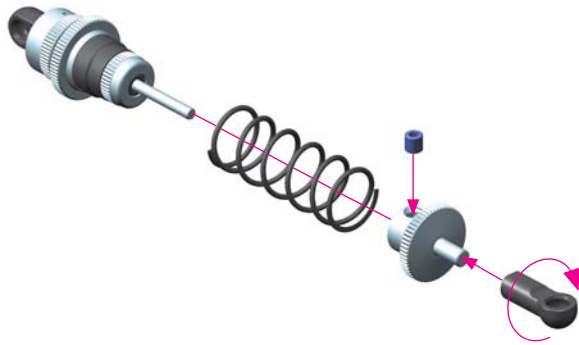
**6** Gently push the shock shaft completely into the shock body. Excess oil will flow through the hole in the shock cap.



**7** Keep the shock shaft pushed in the shock body and tighten the shock cap completely.

Tighten the cap fully but do not overtighten or the rubber membrane may be damaged. Make sure that there is no oil leakage after the cap is tightened.

5.

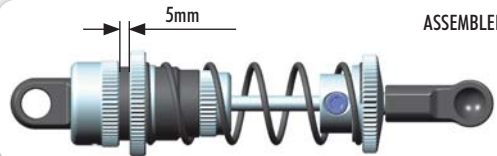


**INITIAL SETTING**



Press the collar **FULLY** onto the end of the shock shaft and tighten the M3x3 setscrew.

← For initial setting, thread fully.



**ASSEMBLED VIEW**

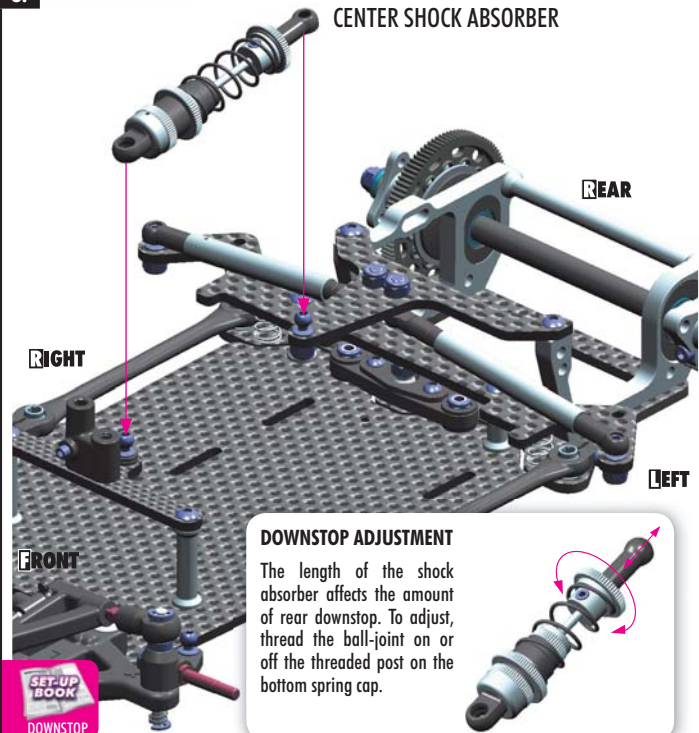
5mm

SET-UP BOOK  
SHOCK



901303  
SB M3x3

6.



**CENTER SHOCK ABSORBER**

REAR

RIGHT

LEFT

FRONT

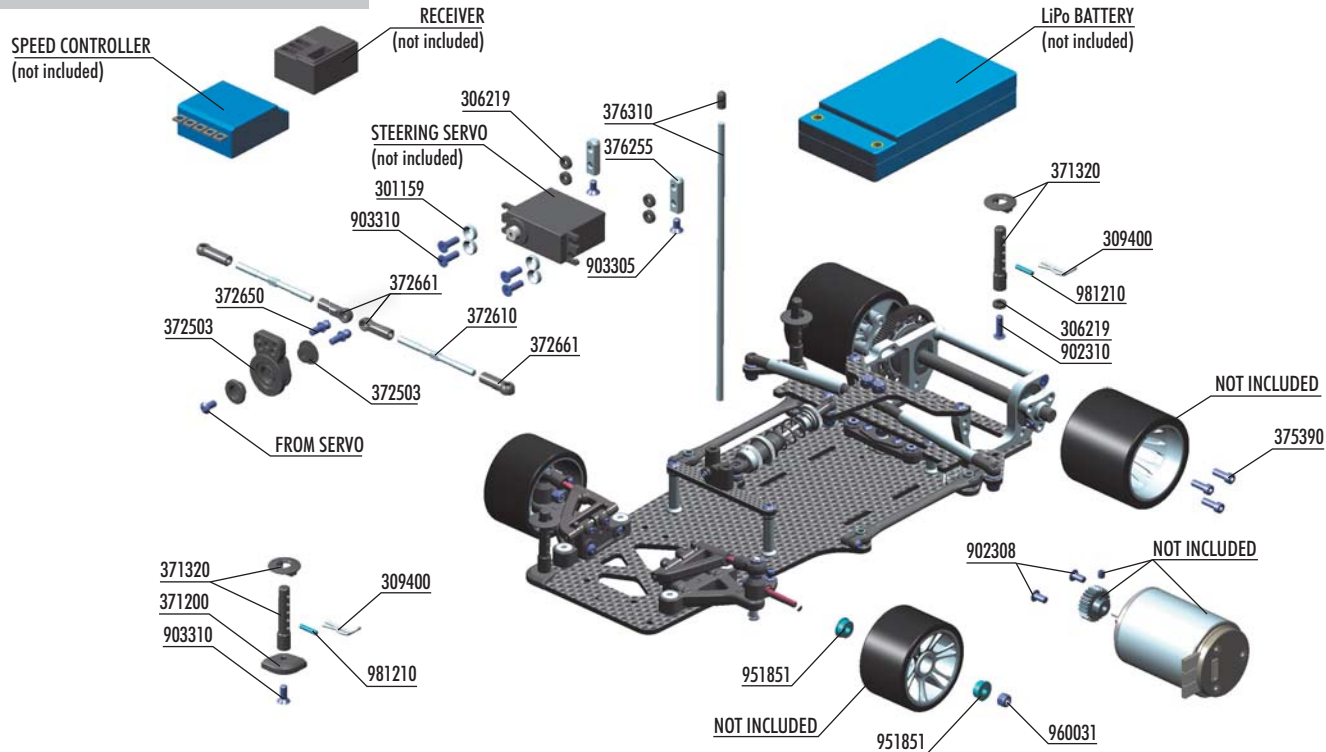
SET-UP BOOK  
DOWNSTOP

**DOWNSTOP ADJUSTMENT**

The length of the shock absorber affects the amount of rear downstop. To adjust, thread the ball-joint on or off the threaded post on the bottom spring cap.



## 6. FINAL ASSEMBLY



**BAG**

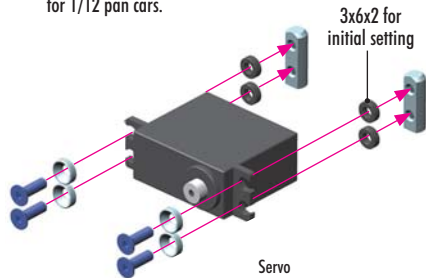
**06**

301159 ALU COUNTERSUNK SHIM (4)  
 305968 ~306000 PINION GEAR HARD COATED 18 ~50T/64P  
 306219 COMPOSITE SET OF SERVO SHIMS (4)  
 309400 BODY CLIP FOR 5MM BODY POST (8)  
 371200 COMPOSITE CHASSIS PROTECTOR (2)  
 371320 COMPOSITE BODY POST (2)  
 372503 COMPOSITE SERVO SAVER - STIFF - SET  
 372610 ALU ADJ. TURNBUCKLE M3x42 MM - SWISS 7075 T6 (2)

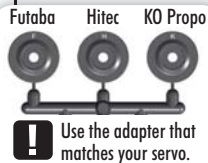
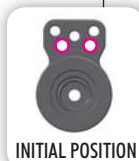
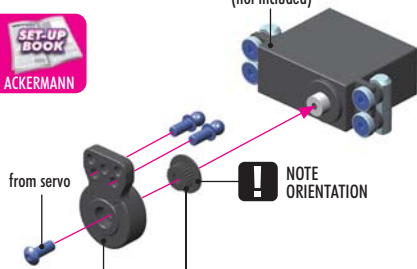
372650 BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)  
 372661 COMPOSITE STEERING BALL-JOINT 4.2 MM OPEN (4)  
 375390 ALU HEX SCREW M3x8 FOR REAR WHEELS (6)  
 376255 ALU SERVO MOUNT (2)  
 376310 FIBERGLASS SOLID ANTENNA ROD + CAP

901303 HEX SCREW SB M3x3 (10)  
 902308 HEX SCREW SH M3x8 (10)  
 902310 HEX SCREW SH M3x10 (10)  
 903305 HEX SCREW SFH M3x5 (10)  
 903310 HEX SCREW SFH M3x10 (10)  
 951851 BALL-BEARING 1/8" x 5/16" x 9/64" FLANGED (2)  
 960031 ALU NUT M3 (10)  
 981210 PIN 2x10 (10)

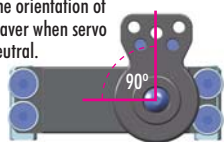
1. We recommend using a servo for 1/12 pan cars.



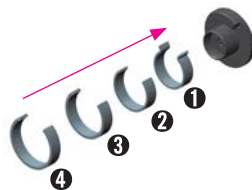
Servo (not included)



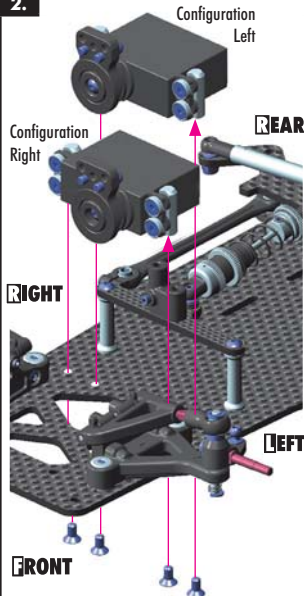
Note the orientation of servo saver when servo is in neutral.



903310  
SFH M3x10



2. Configuration Left

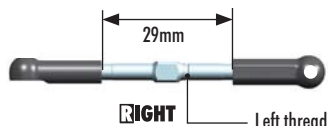
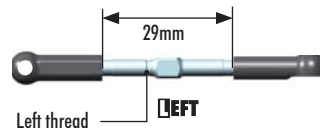
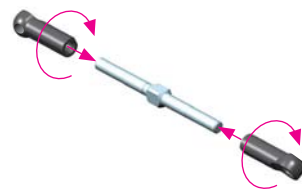


The position of the servo depends on the weight of the electronics. If the car is heavier on the right, use a left-side servo position; if the car is heavier on the left, use a right-side servo position.




903305  
SFH M3x5

3. 2x L=R



TOE

4.

**2x** 

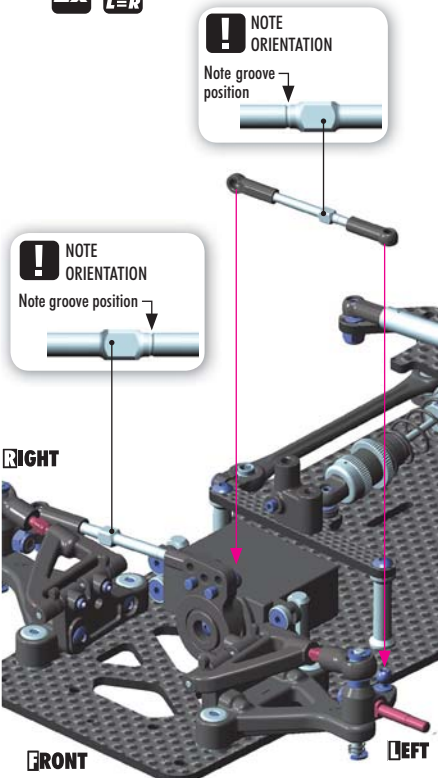
**NOTE ORIENTATION**  
Note groove position

**NOTE ORIENTATION**  
Note groove position

**RIGHT**


**FRONT**

**LEFT**



**SET-UP BOOK**  
ACKERMANN

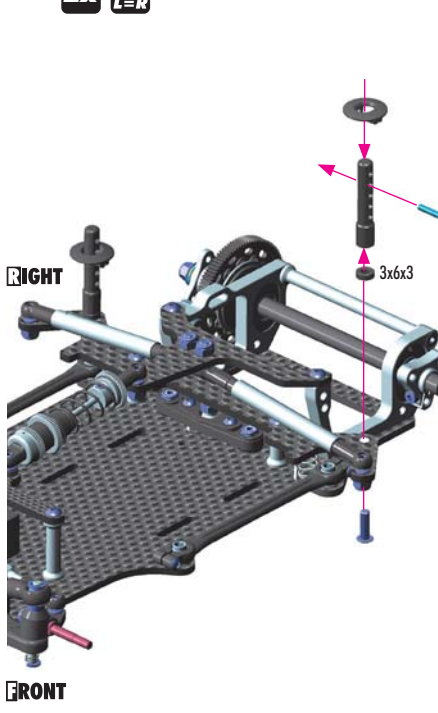
5.

**2x** 

**RIGHT**

**FRONT**


3x6x3




**306219**  
SHIM 3x6x3

**902310**  
SH M 3x10

**981210**  
P 2x10



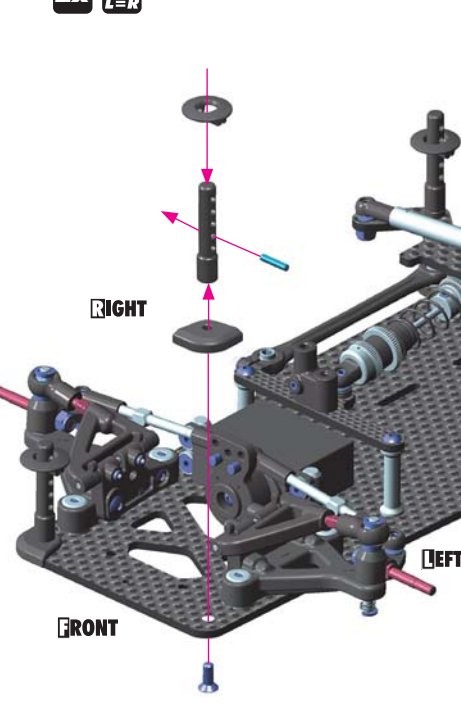
6.

**2x** 

**RIGHT**

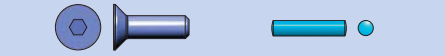
**FRONT**

**LEFT**

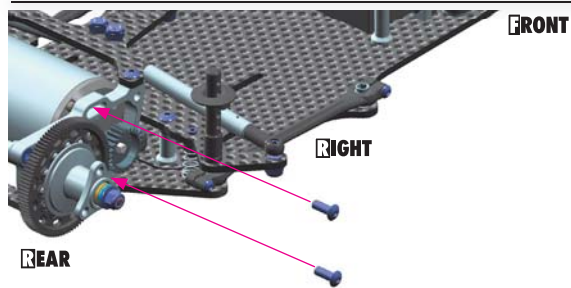
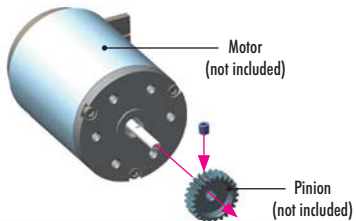


**903310**  
SFH M 3x10

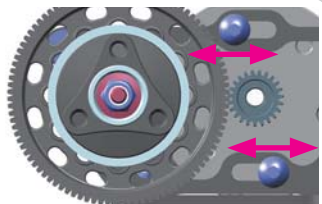
**981210**  
P 2x10



7.



Adjust the gear mesh so there is appropriate space between the spur gear and pinion teeth. There should be a very small amount of freeplay.



SET-UP BOOK  
GEAR RATIO

**PINION GEARS ALU HARDCOATED**

#305968	18T / 64P (option)
#305969	19T / 64P (option)
#305970	20T / 64P (option)
#305971	21T / 64P (option)
#305972	22T / 64P (option)
#305973	23T / 64P (option)
#305974	24T / 64P (option)
#305975	25T / 64P (option)
#305976	26T / 64P (option)
#305977	27T / 64P (option)
#305978	28T / 64P (option)
#305979	29T / 64P (option)
#305980	30T / 64P (option)
#305981	31T / 64P (option)
#305982	32T / 64P (option)
#305983	33T / 64P (option)
#305984	34T / 64P (option)
#305985	35T / 64P (option)
#305986	36T / 64P (option)
#305987	37T / 64P (option)
#305988	38T / 64P (option)



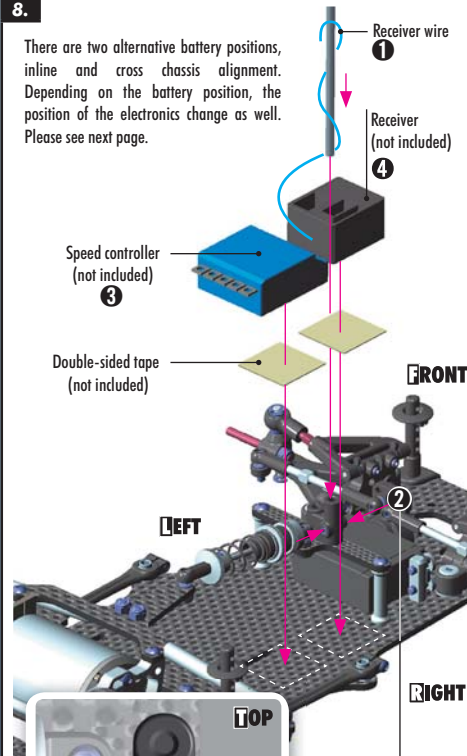
902308  
SH M 3x8



901303  
SB M 3x3

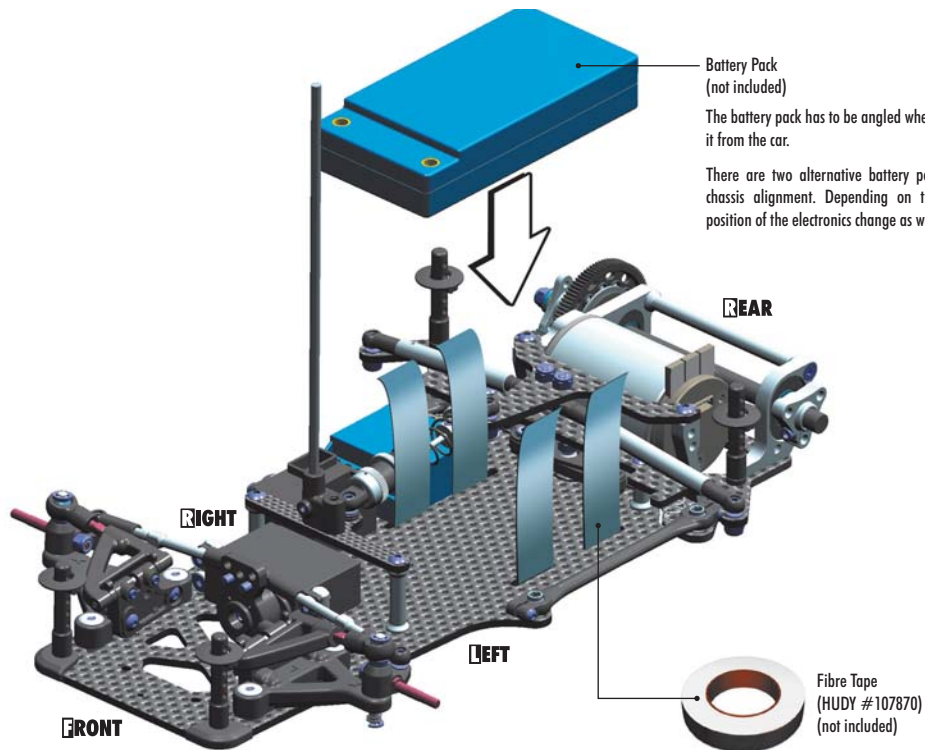
8.

There are two alternative battery positions, inline and cross chassis alignment. Depending on the battery position, the position of the electronics change as well. Please see next page.



After inserting the antenna rod, fully tighten both setscrews. Do not overtighten or you may strip the plastic.

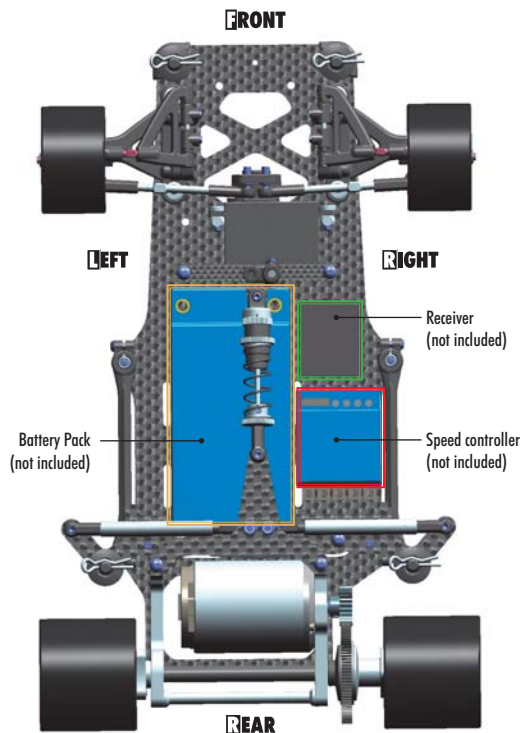




## LIPO BATTERY CONFIGURATION 1 **Inline alignment:**

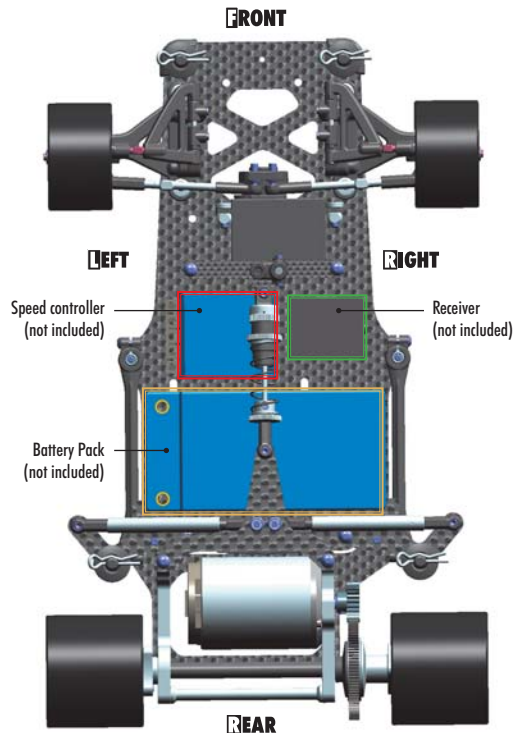
### INITIAL ASSEMBLY

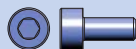
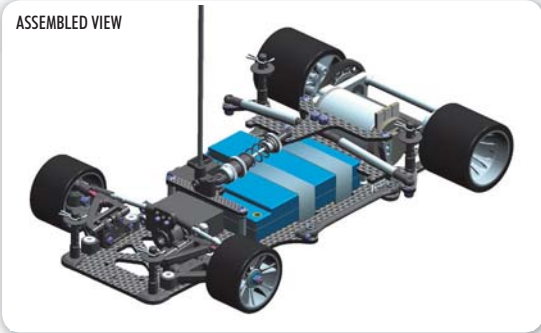
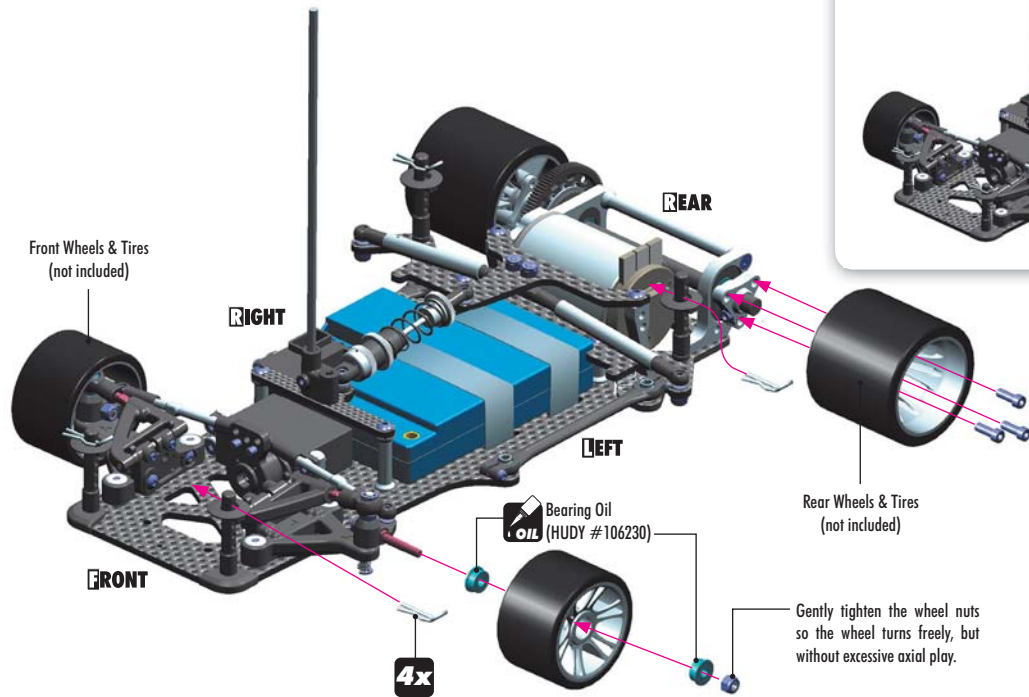
Inline battery position improves cornering speed and reduces the chance that the rear of the car will diff out. Recommended for high-traction conditions.



## LIPO BATTERY CONFIGURATION 2 **Cross chassis alignment:**

Cross chassis position provides more a neutral handling, making the car less sensitive to set-up changes and give less responsive steering. Recommend for low- and medium-traction conditions.





375390  
ALU SCH M3x8



951851  
BB 1/8"x5/16"x9/64"



960031  
ALU N M3

**NOT INCLUDED**



To ensure that you always have access to the most up-to-date version of the XRAY Set-up Book, XRAY will now be offering only the digital online version at our website at [www.teamxray.com](http://www.teamxray.com). By offering this online version instead of including a hardcopy printed version in kits, you will always be assured of having the most current updated version. The Set-up Book features the T-bar version of the XII, however the majority of all set-up adjustments and theory are same; we strongly recommend that you read and understand the Set-up Book completely.

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