



MADE IN
EUROPE

INSTRUCTION
MANUAL

EUROPEAN
CHAMPION

BEFORE YOU START

The X12 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, 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 is not what you wanted or expected, do not continue any further. Your hobby dealer cannot accept your X12 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. Also, please visit our Web site at 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

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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 #106230) 	Fibre Tape (HUDY #107870) 	Lexan™ Paint 

GRAPHITE PART PREPARATION

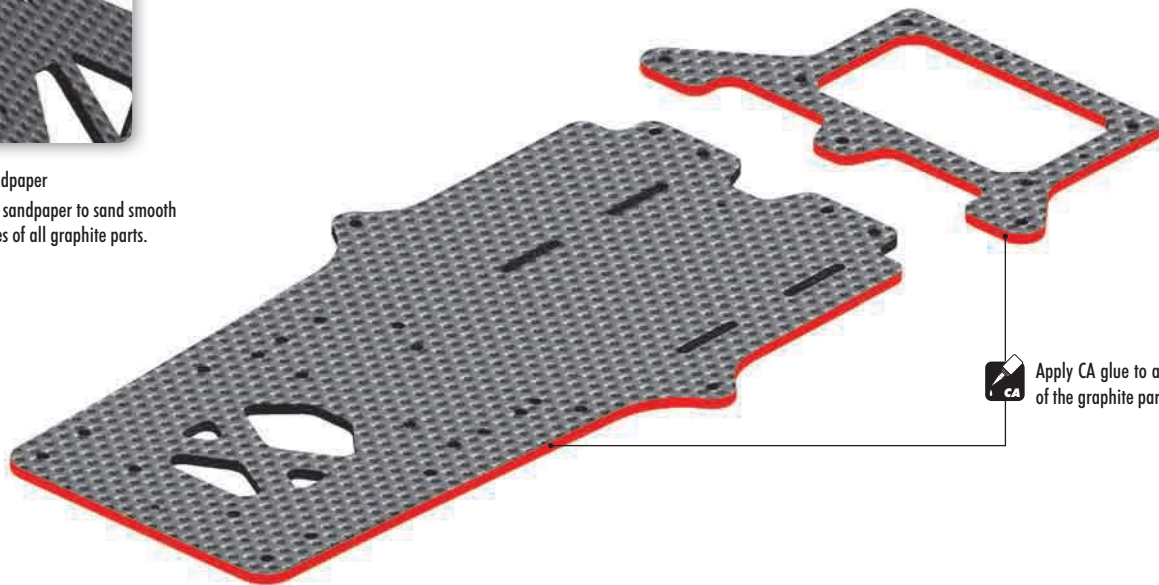
PREPARE ALL GRAPHITE PARTS

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



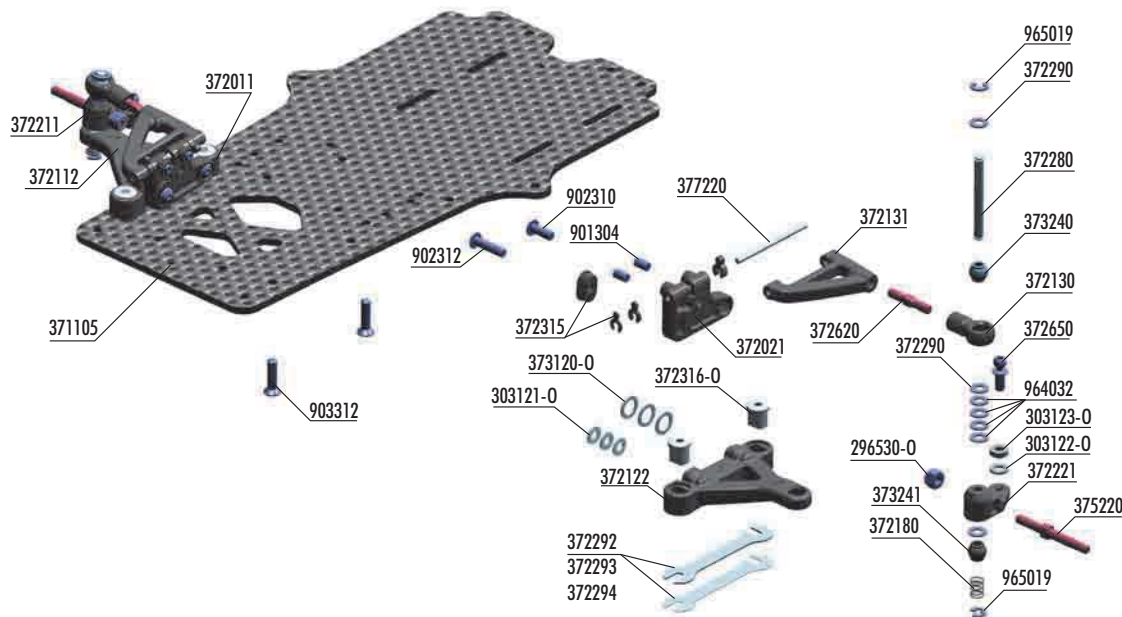
Fine sandpaper

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



SUSPENSION ARMS

#372112	RIGHT - HARD
#372113	RIGHT - GRAPHITE
#372122	LEFT - HARD
#372123	LEFT - GRAPHITE

UPPER ARM MOUNTS

#372010	RIGHT - STANDARD
#372011	RIGHT - HARD
#372012	RIGHT - GRAPHITE
#372020	LEFT - STANDARD
#372021	LEFT - HARD
#372022	LEFT - GRAPHITE

FRONT COIL SPRINGS

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

ALU ECCENTRIC BUSHINGS

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

BAG

01

303121-0 ALU SHIM 3x6x0.5MM - ORANGE (10)
 303122-0 ALU SHIM 3x6x1.0MM - ORANGE (10)
 303123-0 ALU SHIM 3x6x2.0MM - ORANGE (10)
 371105 X12'15 CHASSIS - 2.5MM GRAPHITE
 372011 COMPOSITE FRONT UPPER ARM MOUNT - RIGHT - HARD
 372021 COMPOSITE FRONT UPPER ARM MOUNT - LEFT - HARD
 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 - V2
 372221 COMPOSITE STEERING BLOCK - LEFT - HARD - V2

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)
 372316-0 ALU ECCENTRIC BUSHING 0.0MM - ORANGE (2)
 372620 ADJ. TURNBUCKLE M3x17 MM - HUDY SPRING STEEL™ (2)
 372650 BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)
 373120-0 ALU SHIM 5.3x7.8x0.5MM - ORANGE (10)
 373240 PIVOTBALL UNIVERSAL 6.0 MM - HUDY SPRING STEEL™ (2)
 373241 COMPOSITE PIVOTBALL 6.0 MM (2)
 375220 FRONT WHEEL AXLE (2)

372220 FRONT UPPER PIVOT PIN 2x31MM (2)
 296530-0 ALU NUT M3 - ORANGE (10)
 901304 HEX SCREW SB M3x4 (10)
 902310 HEX SCREW SH M3x10 (10)
 902312 HEX SCREW SH M3x12 (10)
 903312 HEX SCREW SFH M3x12 (10)
 964032 WASHER S 3.2 x 4.8 x 0.2 (10)
 965019 E-CLIP 1.9 (10)

1.

2x

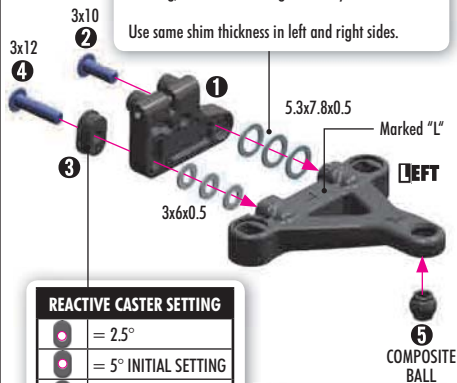
Upper Arm Position Adjustment Shims

The shims influence the camber gain change.




MORE shims = less camber gain, reduced initial steering, reduced steering sensitivity (less twitchy).

LESS shims = more camber gain, increased initial steering, increased steering sensitivity.

Use same shim thickness in left and right sides.



REACTIVE CASTER SETTING

	= 2.5°
	= 5° INITIAL SETTING
	= 7.5°

Use same bushings in left and right sides.

COMPOSITE
BALL

ASSEMBLED VIEW



902312
SH M3x12

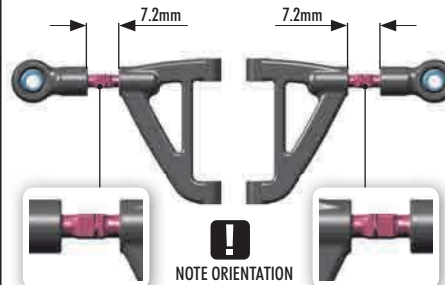
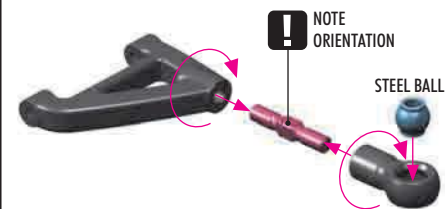


303121-0
SHIM 3x6x0.5



373120-0
SHIM 5.3x7.8x0.5

2.

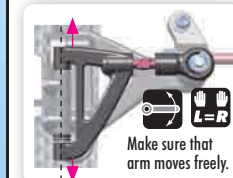


ASSEMBLED VIEW



3.

2x
L=R



Make sure that arm moves freely.

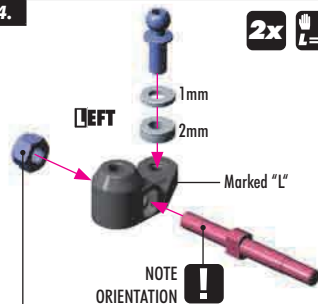
**RIGHT**

- Moves freely

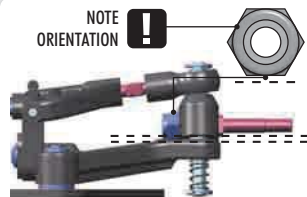


901304
SB M3x4

4.

2x  L=R

NOTE ORIENTATION



ASSEMBLED VIEW

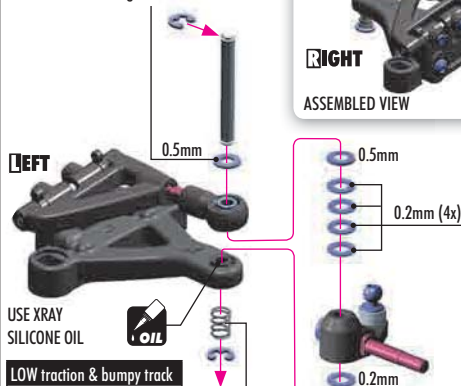
L=R

296530-0
ALU N M3303122-0
SHIM 3x6x1303123-0
SHIM 3x6x2

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 tire diameter.



LOW traction & bumpy track
10K cSt (#359310 XRAY)
HIGH traction & flat track
30K cSt (#359330 XRAY)



Moves freely

L=R

RIGHT

ASSEMBLED VIEW

FRONT RIDE HEIGHT ADJUSTMENT

INITIAL SETTING

- above upper arm (0.5mm)
- above steering block (1.3mm)
- beneath steering block (0.2mm)

FRONT COIL SPRINGS

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

372290
S 3.2x4.8x0.5964032
S 3.2x4.8x0.2965019
C 1.9

6.

2x

The X12 has adjustable front track-width. There are 3 different bushings - 0mm centric (included in kit), or 0.5mm or 1.0mm eccentric (optional). Use the same bushing in front and rear, and also use the same orientation of the bushing on both right and left sides.

L=R

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

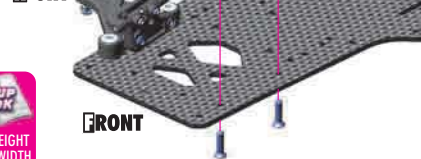
LEFT	+	RIGHT	=	TRACK WIDTH
-1mm				165mm
-0.5mm				166mm
0mm				167mm
+0.5mm				168mm
+1mm				169mm

Initial setting

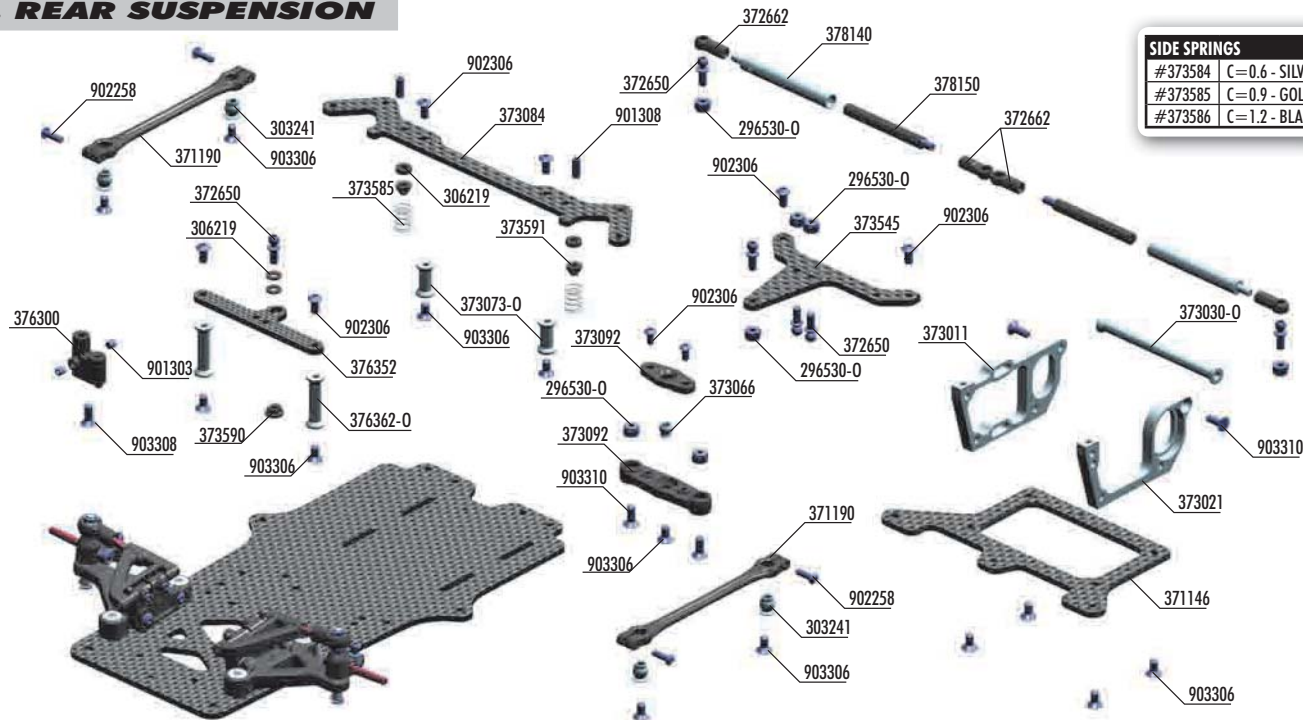
The number of washers used affects the ride height of the car, so determine the proper amount of shimming based on tire diameter.

INITIAL SETTING = 0.6mm washer

RIGHT

903312
SFH M3x12

3. REAR SUSPENSION



SIDE SPRINGS

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

BAG

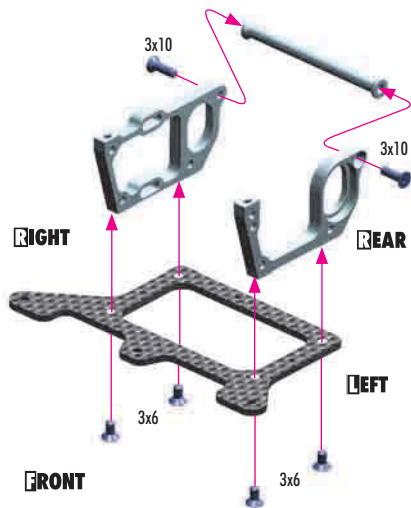
03

303241 BALL UNIVERSAL 5.8 MM HEX (4)
 306219 COMPOSITE SET OF SERVO SHIMS (4)
 371146 LINK GRAPHITE 2.5MM REAR POD LOWER PLATE
 371190 COMPOSITE POD LINK (2)
 372650 BALL-END 4.2MM THREADED HUDY SPRING STEEL™ (2)
 372662 COMPOSITE BALL-JOINT 4.2 MM (4)
 373011 ALU REAR BULKHEAD - MOTOR (RIGHT)
 373021 ALU REAR BULKHEAD - LEFT
 373030-O ALU REAR BULKHEAD BRACE - ORANGE
 373066 ALU PIVOT BALL

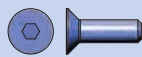
373073-O ALU REAR BRACE MOUNT 16MM- ORANGE (2)
 373084 LINK REAR BRACE - GRAPHITE 2.5MM
 373092 COMPOSITE LOWER & UPPER PIVOT BRACE - LOW ROLL-CENTER
 373545 X12'15 REAR POD UPPER PLATE - GRAPHITE
 373585 SIDE SPRING C=0.9 - GOLD (2)
 373590 COMPOSITE SPRING HOLDER (2)
 373591 COMPOSITE SIDE SPRING HOLDER (2)
 376300 COMPOSITE ANTENNA MOUNT
 376352 GR. PLATE FOR ANTENNA HOLDER
 376362-O ALU ANTENNA HOLDER MOUNT - ORANGE (2)

378140 SIDE LINKAGE TUBE (2)
 378150 SIDE SHOCK SHAFT (2)
 296530-O ALU NUT M3 - ORANGE (10)
 901303 HEX SCREW SB M3x3 (10)
 901308 HEX SCREW SB M3x8 (10)
 902258 HEX SCREW SH M2.5x8 (10)
 902306 HEX SCREW SH M3x6 (10)
 903306 HEX SCREW SFH M3x6 (10)
 903308 HEX SCREW SFH M3x8 (10)
 903310 HEX SCREW SFH M3x10 (10)

1.

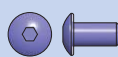
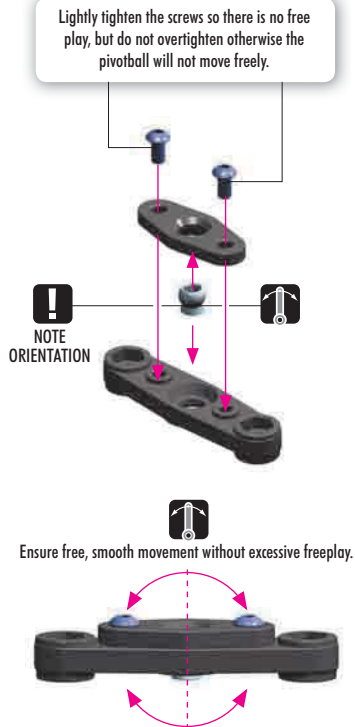


903306
SFH M3x6



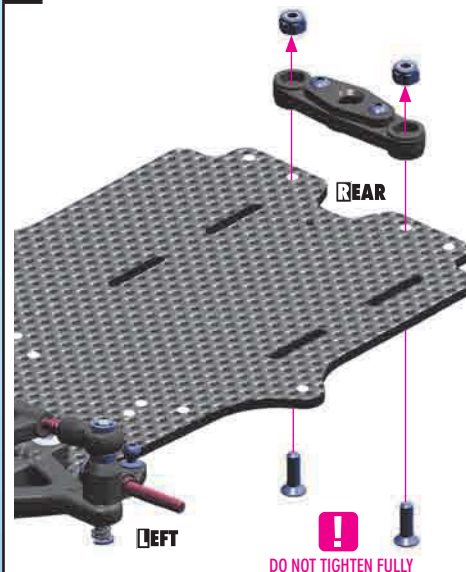
903310
SFH M3x10

2.



902306
SH M3x6

3.



296530-0
ALU N M3



903310
SFH M3x10

4.

REAR

LEFT

903306
SFH M3x6

5.

2x

DO NOT TIGHTEN FULLY,
PIVOTBALLS MUST TURN
FREELY.

ASSEMBLED VIEW

902258
SH M2.5x8

6.

2x

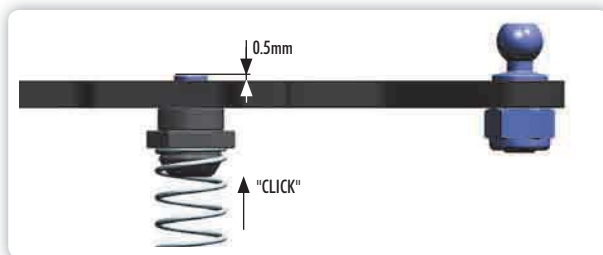
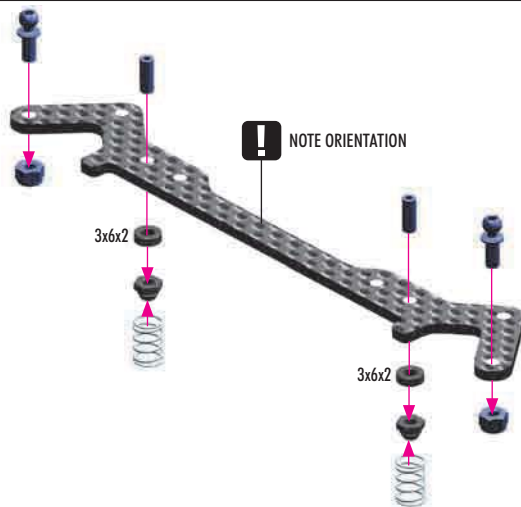
REAR

FRONT

TIGHTEN FULLY

903306
SFH M3x6

7.



306219
SHIM 3x6x2

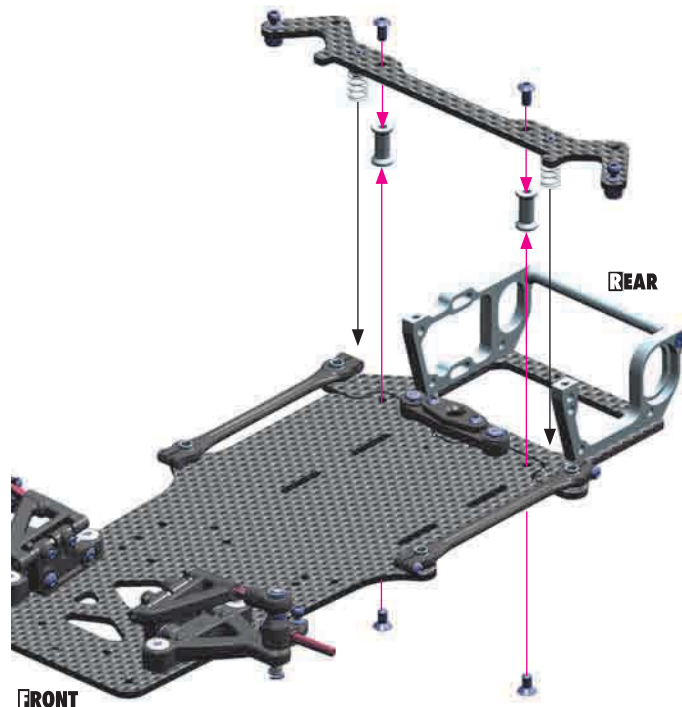


901308
SB M3x8



296530-0
ALU N M3

8.

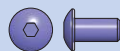
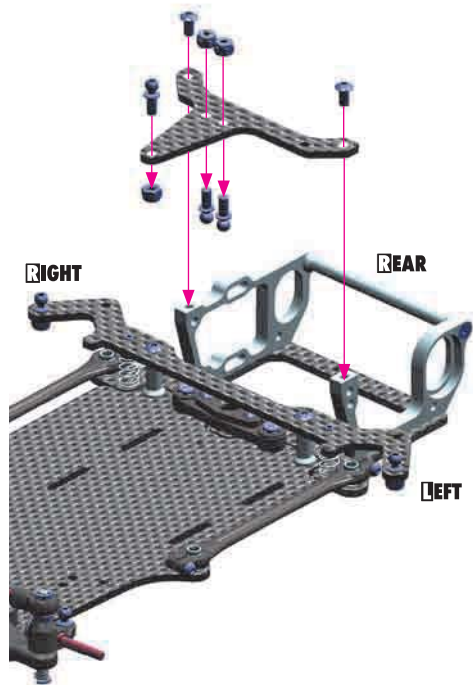


902306
SH M3x6



903306
SFH M3x6

9.



902306
SH M3x6



296530-0
ALU N M3

10.



306219
SHIM 3x6x1



901303
SB M3x3

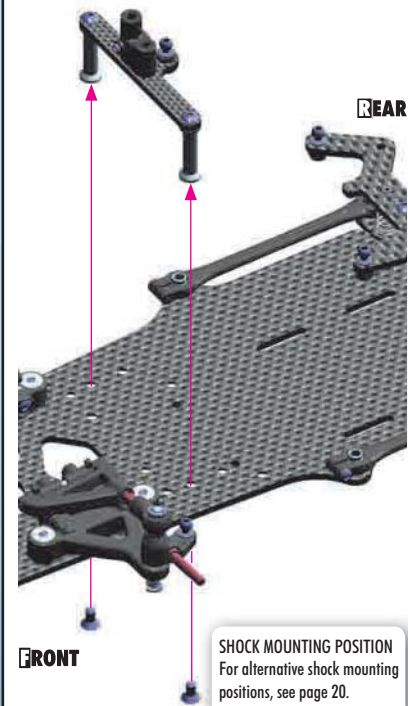


903308
SFH M3x8



902306
SH M3x6

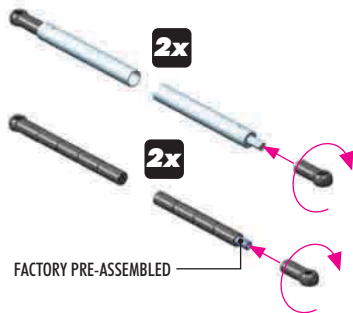
11.



903306
SFH M3x6

SHOCK MOUNTING POSITION
For alternative shock mounting
positions, see page 20.

12.



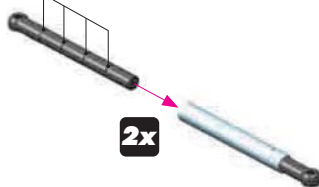
Add oil in each slot of the Derlin™ side shock tubes.

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 softer oils

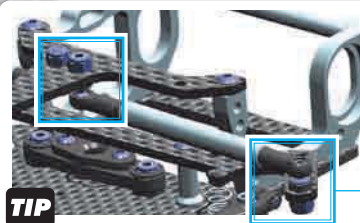
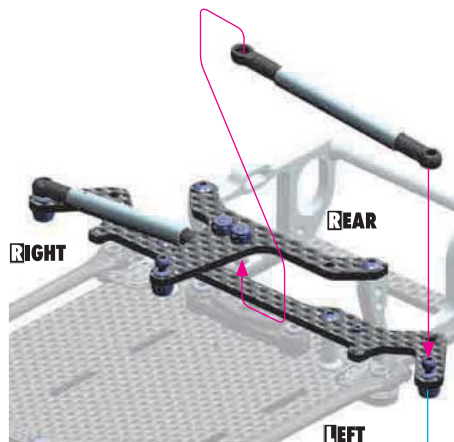
For low grip or asphalt: use harder oils

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



901310
SB M3x10

13.



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.

OPTIONAL SIDE SHOCK

Optional side shock can be used to improve traction in low- and medium-grip conditions.

OPTIONAL PARTS (not included):

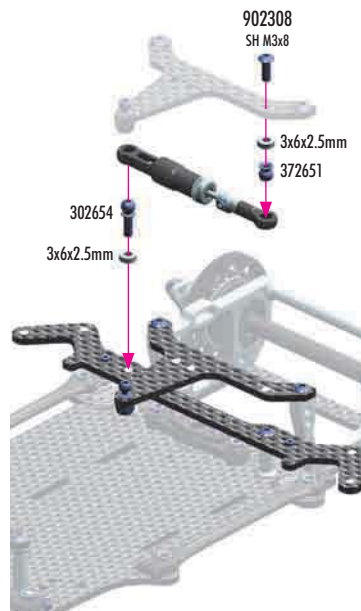
#378100 Side Shock Absorber Set

#302654 Ball End 4.9mm with 8mm Thread - V2 (2)

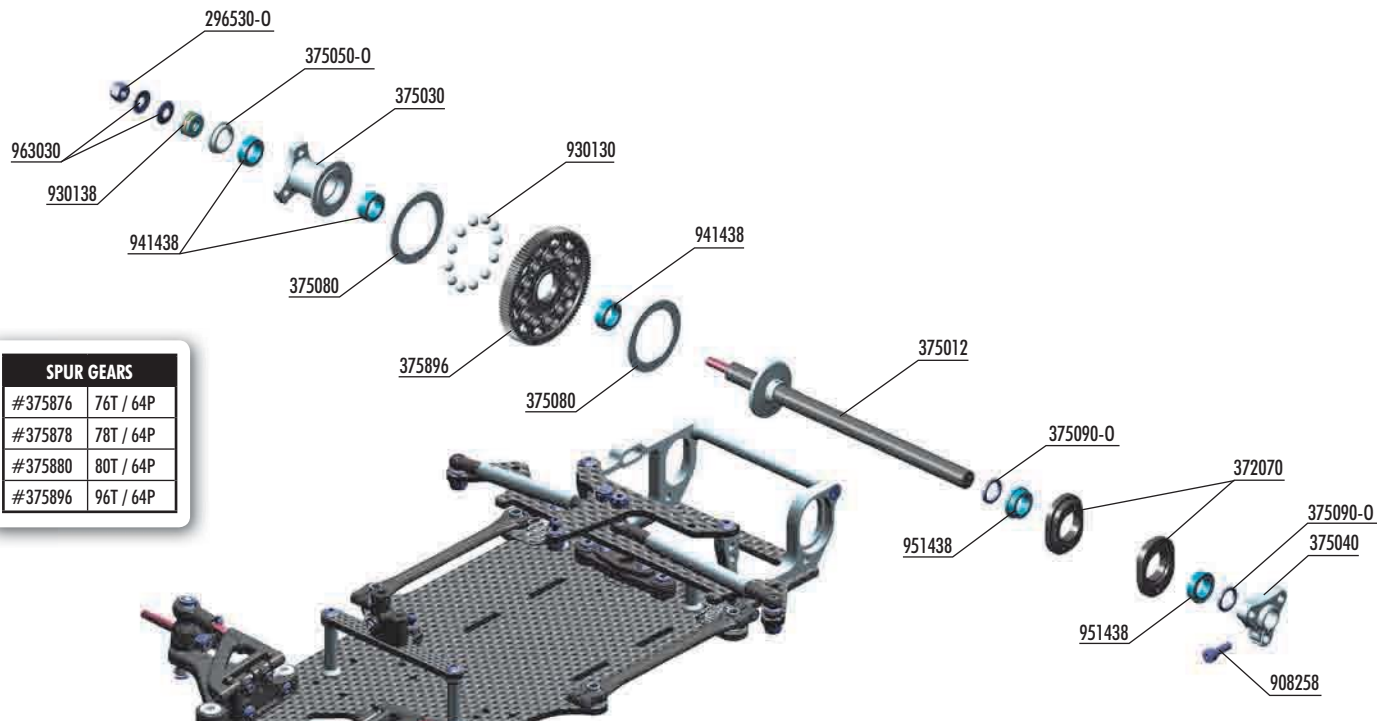
#303120 Set of Alu Shims (0.5mm, 1.5mm, 2.5mm)

#372651 Ball Universal 4.9mm - HUDY Spring Steel™ (2)

#902308 Hex Screw SH M3x8 (10)



4. BALL DIFFERENTIAL



SPUR GEARS

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

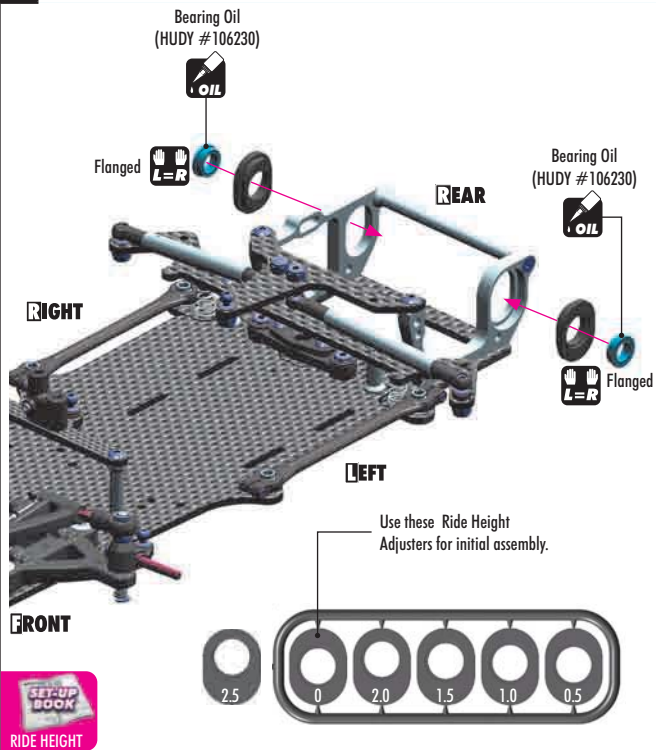
BAG



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
 375050-0 ALU DIFF HUB - ORANGE
 375080 D-LOCK DIFF PLATE (2)
 375090-0 SET OF ALU SHIMS (0.5MM, 1.0MM, 2.0MM) - ORANGE
 375896 COMPOSITE SPUR GEAR - 96T / 64P

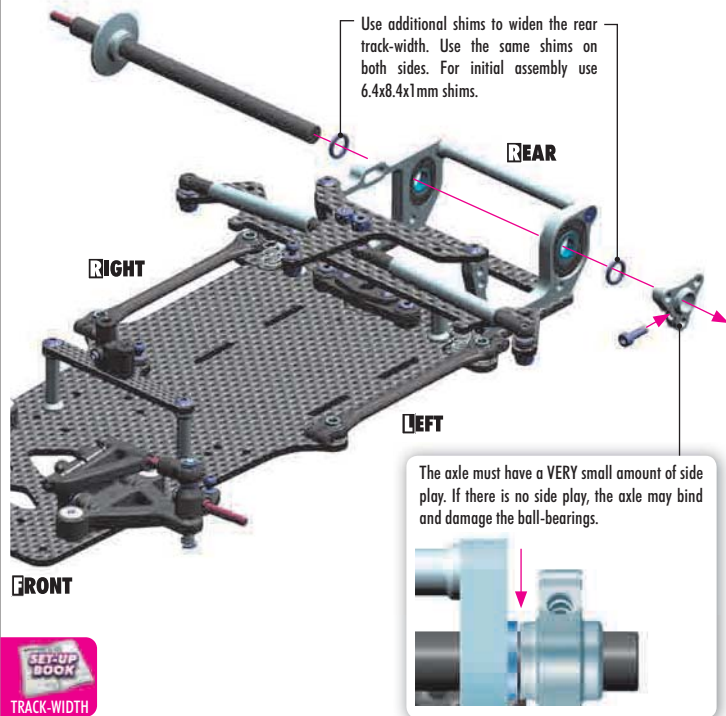
296530-0 ALU NUT M3 - ORANGE (10)
 908258 HEX SCREW SOCKET HEAD CAP M2.5x8 (10)
 930130 CARBIDE BALL 3.175MM (12)
 930138 CARBIDE BALL-BEARING AXIAL F3-8 3x8x3.5
 941438 HIGH-SPEED BALL-BEARING 1/4"x3/8"x1/8" RUBBER SEALED (2)
 951438 BALL-BEARING 1/4" x 3/8" x 1/8" FLANGED (2)
 963030 CONE WASHER ST 3x8x0.5 (10)

1.



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

2.

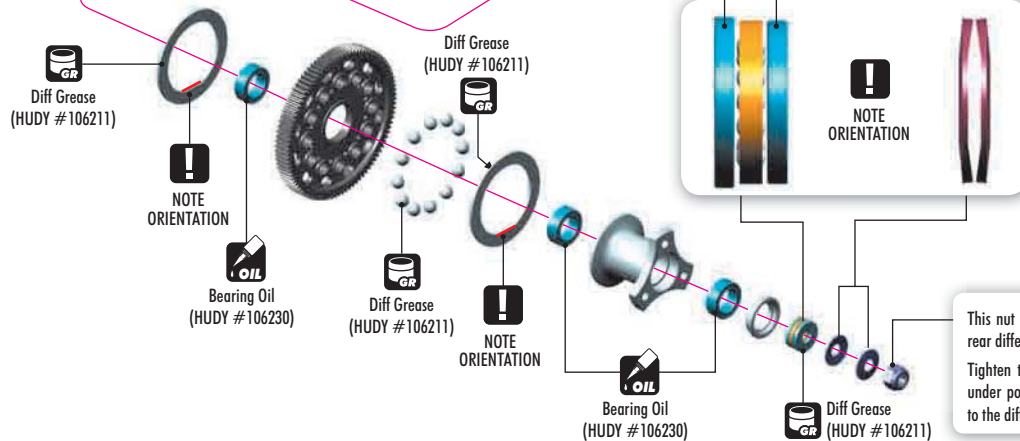
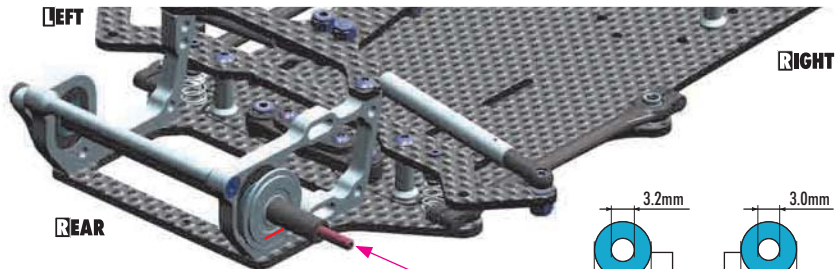


375090-0
6.4x8.4x1.0



908258
SCH M2.5x8

3.



930130
B 3.1


930138
BA 3x8


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

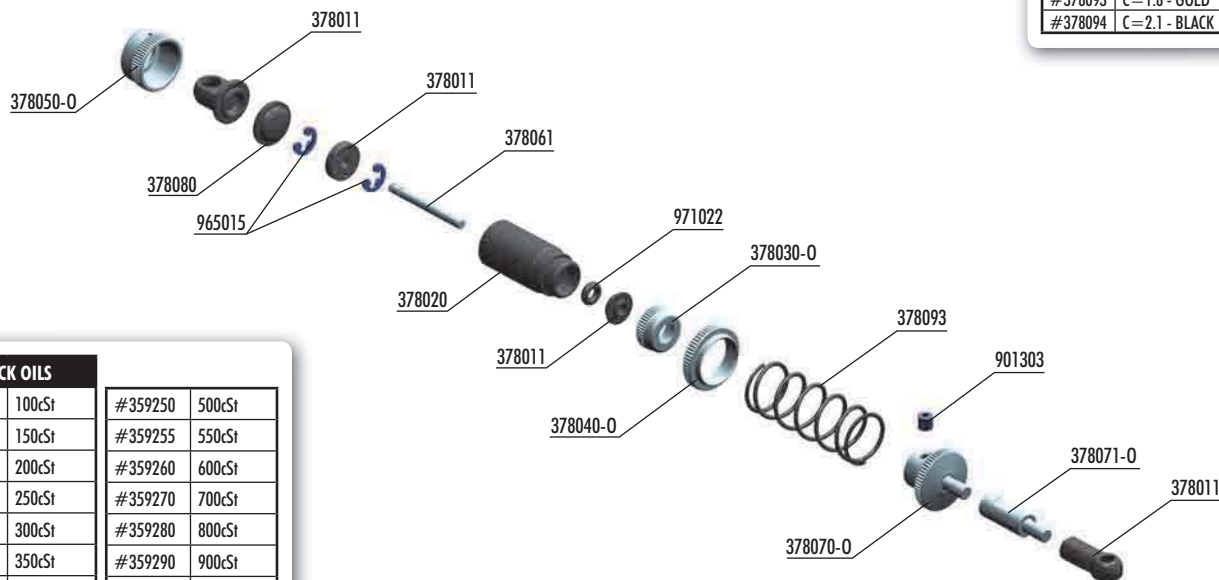

296530-0
ALU N M3


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

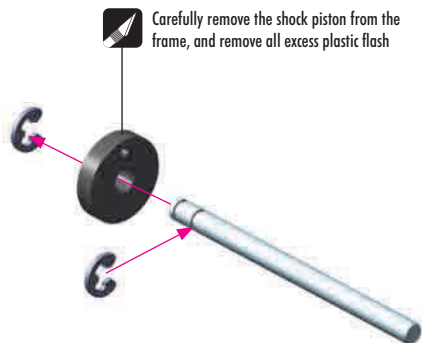
05

378001 SHOCK ABSORBER SET
 378011 COMPOSITE SHOCK PARTS - FRAME
 378020 ALU THREADED SHOCK BODY - HARDCOATED
 378030-0 ALU SHOCK BODY CAP - LOWER - ORANGE
 378040-0 ALU SHOCK ADJUSTABLE COLLAR - ORANGE
 378050-0 ALU SHOCK BODY CAP - UPPER - ORANGE

378061 SHOCK SHAFT
 378070-0 ALU SHOCK SPRING COLLAR - ORANGE
 378071-0 ALU SHOCK ADAPTER - ORANGE
 378080 SHOCK RUBBER MEMBRANE (2)
 378093 SHOCK SPRING - GOLD

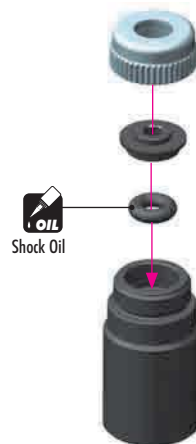
901303 HEX SCREW SB M3x3 (10)
 965015 E-CLIP 1.5 (10)
 971022 SILICONE O-RING 2x2 (10)

1.



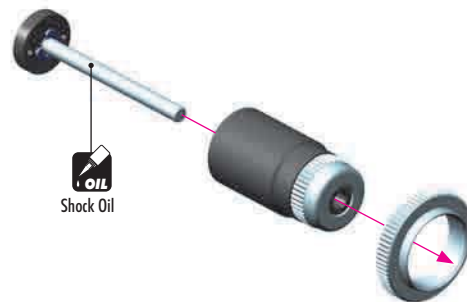
965015
C1.5

2.



971022
O 2x2

3.



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.

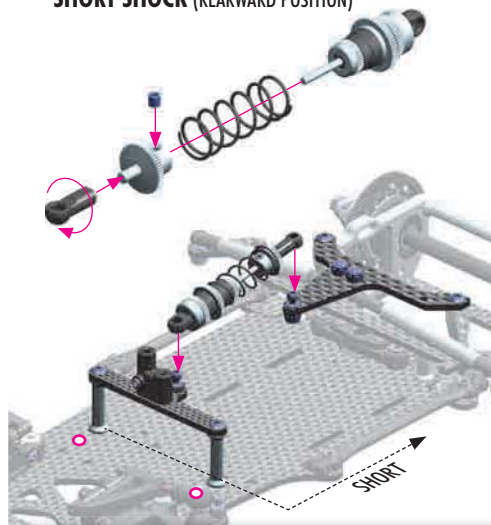


- 7** Keep the shock shaft pushed in the shock body and tighten the shock cap completely.

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.

ALTERNATIVE 1 SHORT SHOCK (REARWARD POSITION)



An innovative new feature is to change the center shock front mounting position & shock length. By moving the center shock mounts on the chassis to either the forward or rearward position, the damping and steering characteristics can be changed.

REARWARD shock position (SHORT shock):
Improved steering response, quicker direction changes.

FORWARD shock position (LONGER shock with adapter):
Improved driveability over bumps, improved on-power traction.

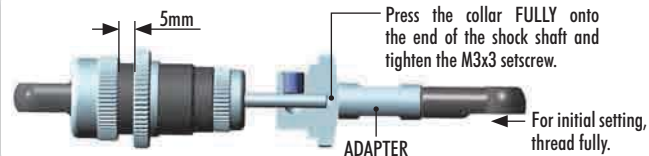
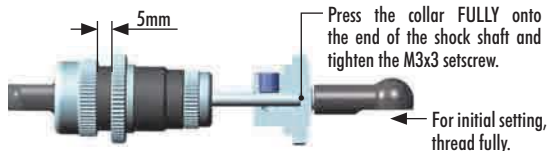
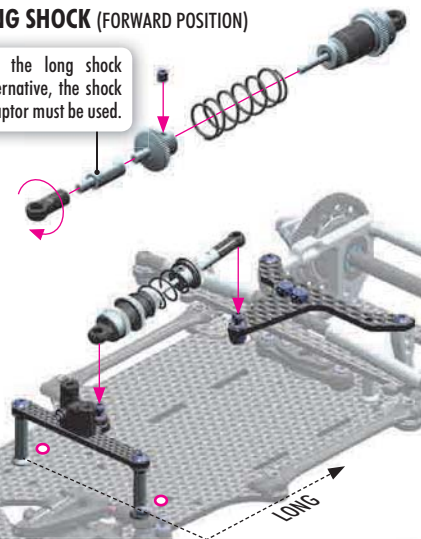
DOWNSTOP ADJUSTMENT

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



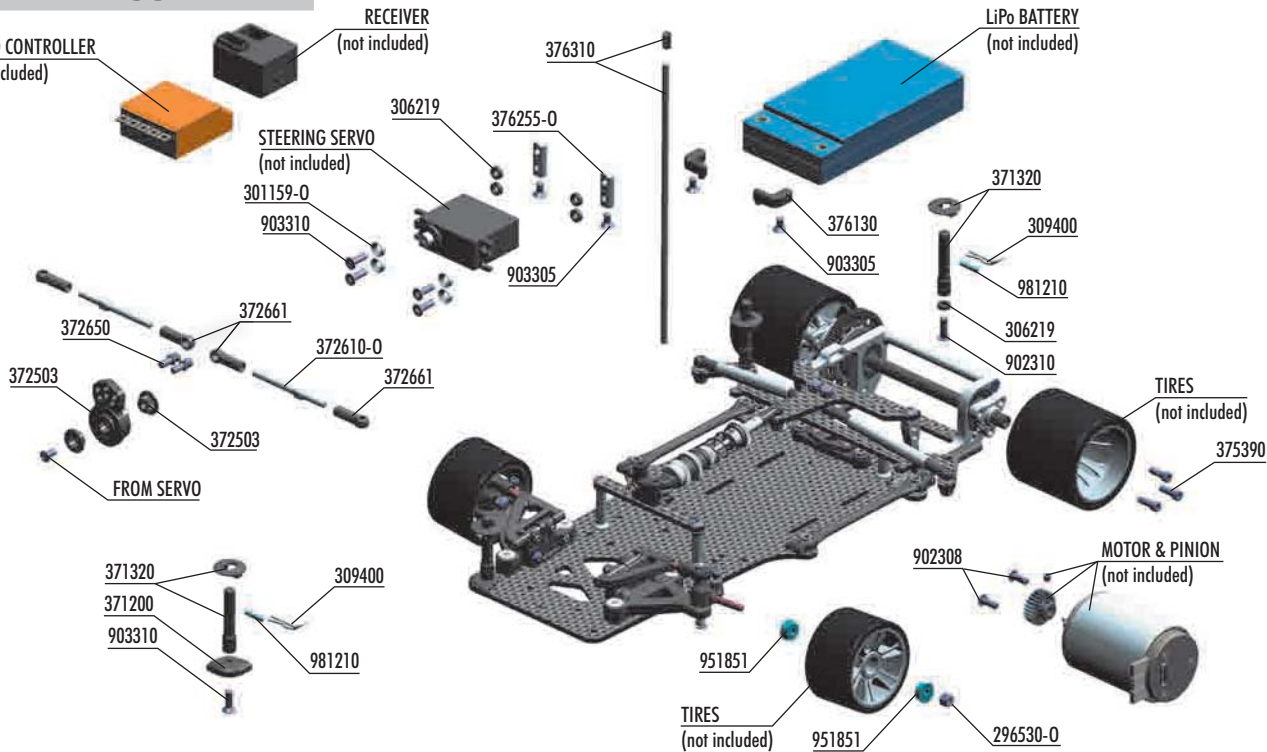
ALTERNATIVE 2 (INITIAL SETTING) LONG SHOCK (FORWARD POSITION)

For the long shock alternative, the shock adaptor must be used.



901303
SB M3x3

6. FINAL ASSEMBLY



BAG

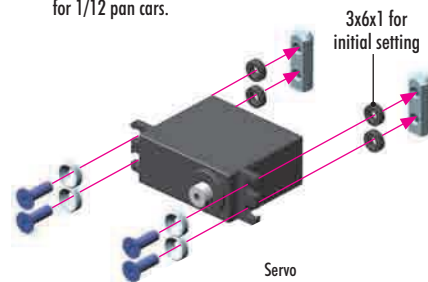


- 301159-0 ALU COUNTERSUNK SHIM - ORANGE (4)
305968--306000 PINION GEAR HARDCOATED 18--50T/64P
306219 COMPOSITE SET OF SERVO SHIMS (4)
309400 BODY CLIP FOR 5MM BODY POST (8)
371200 COMPOSITE CHASSIS PROTECTOR (2)
371320 COMPOSITE BODY POST (2)
372503 COMPOSITE SERVO SAVER - STIFF - SET
372610-0 ALU ADJ. TURNBUCKLE M3x42 MM - ORANGE (2)

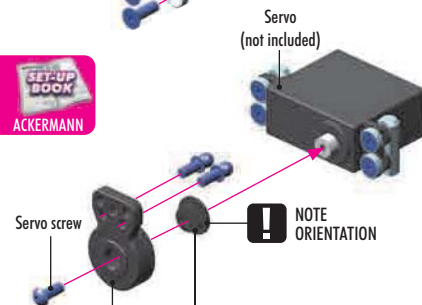
- 372650 BALL-END 4.2MM - THREADED - HUDY SPRING STEEL™ (2)
372661 COMPOSITE STEERING BALL-JOINT 4.2 MM OPEN (4)
375390 ALU HEX SCREW M3x8 FOR REAR WHEELS (6)
376130 COMPOSITE LiPo BATTERY BACKSTOP (2)
376255-0 ALU SERVO MOUNT - ORANGE (2)
376310 FIBERGLASS SOLID ANTENNA ROD + CAP

- 296530-0 ALU NUT M3 - ORANGE (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)
981210 PIN 2x10 (10)

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



ACKERMANN



INITIAL POSITION



Use the adapter that matches the steering servo.

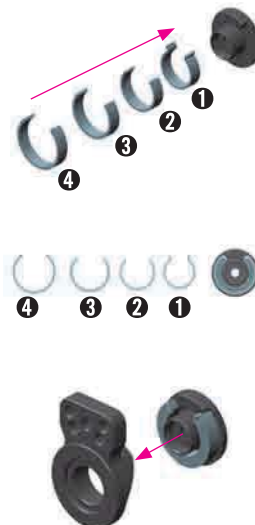
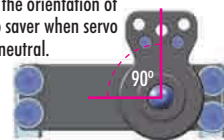


306219
SHIM 3x6x1

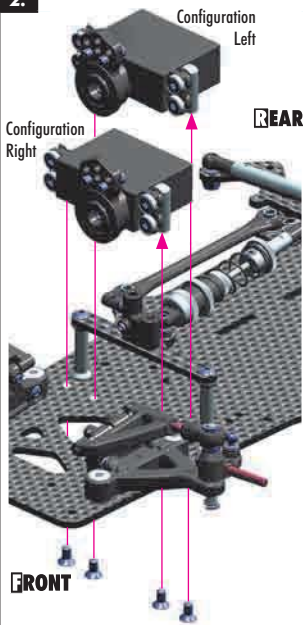


903310
SFH M3x10

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



- 2.



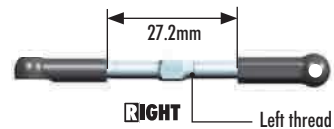
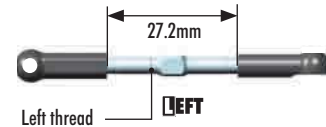
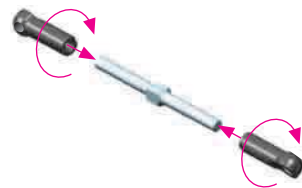
FRONT

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.




TOE

4.

2x  **L=R**


! NOTE ORIENTATION

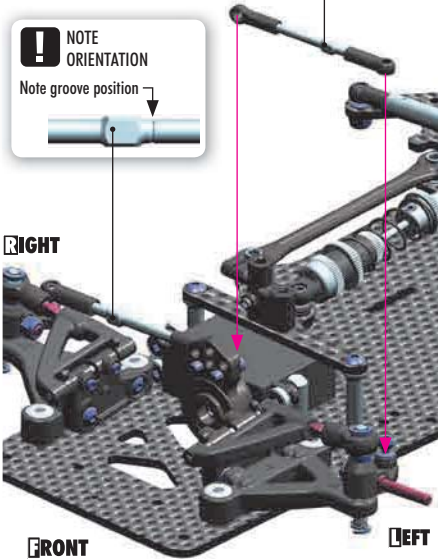
Note groove position



! NOTE ORIENTATION

Note groove position







FRONT

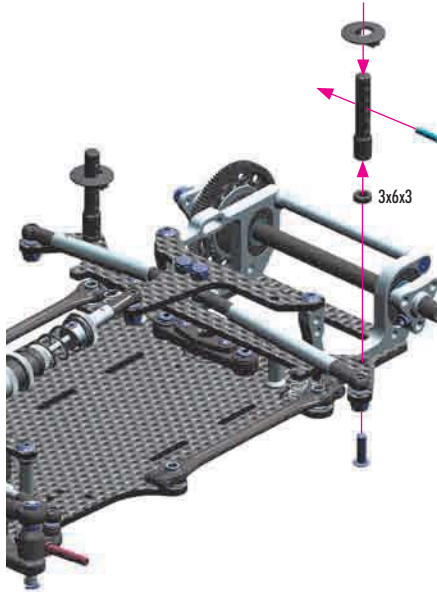
RIGHT

LEFT




5.

2x  **L=R**



FRONT

3x6x3




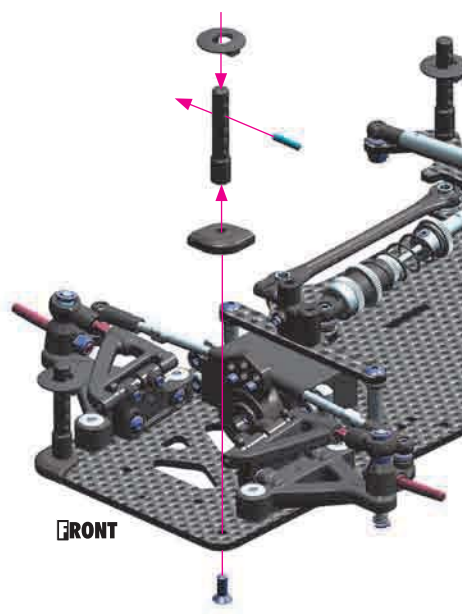
306219 SHIM 3x6x3

902310 SH M 3x10

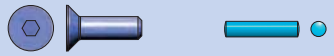
981210 P 2x10

6.

2x  **L=R**



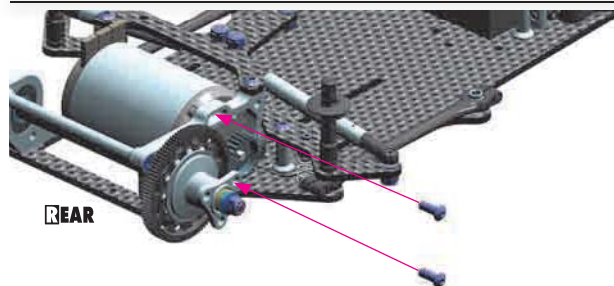
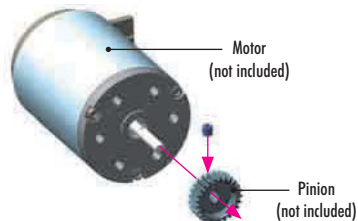
FRONT



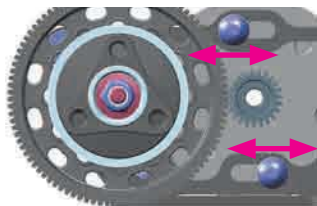
903310 SFH M 3x10

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.



902308
SH M 3x8



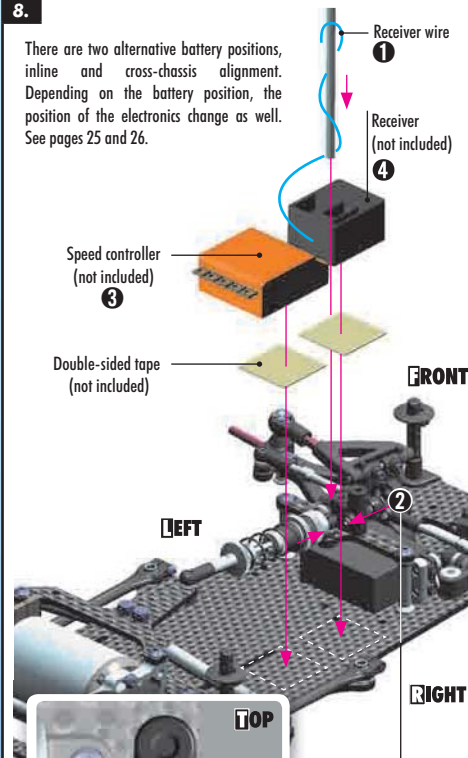
901303
SB M 3x3

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)

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. See pages 25 and 26.

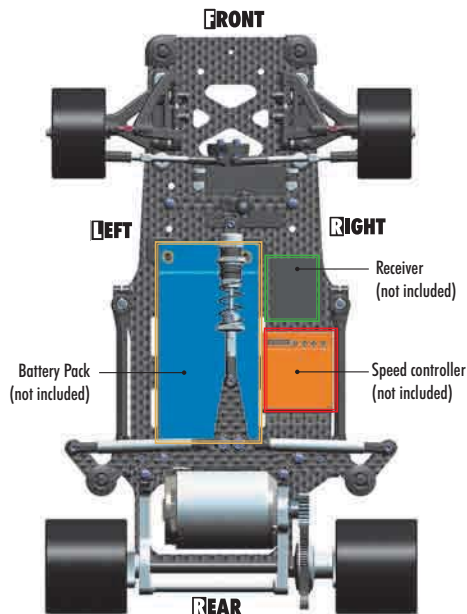


After inserting the antenna rod, fully tighten both setscrews. Do not overtighten or you may strip the plastic.

LIPO BATTERY CONFIGURATION 1 **Inline alignment:**

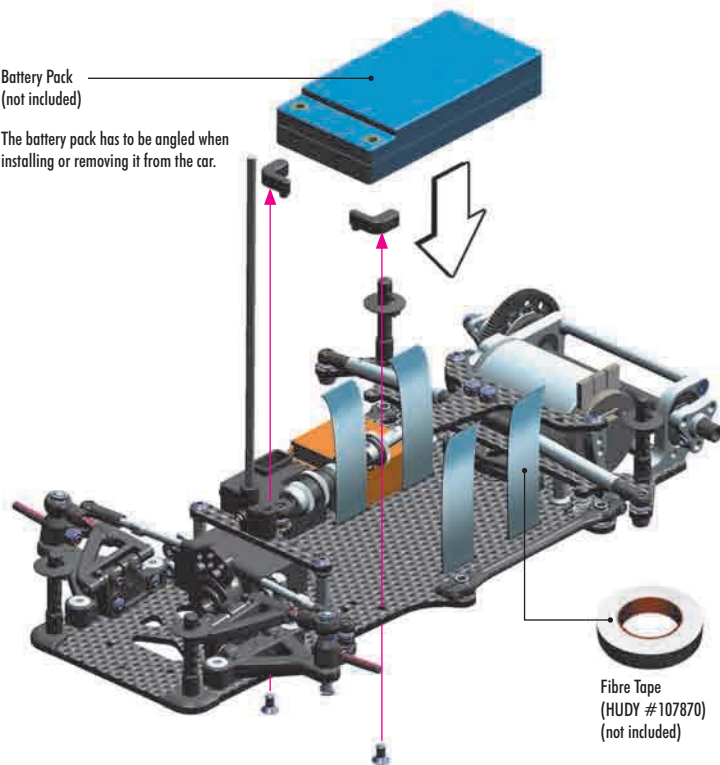
INITIAL ASSEMBLY

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



Battery Pack
(not included)

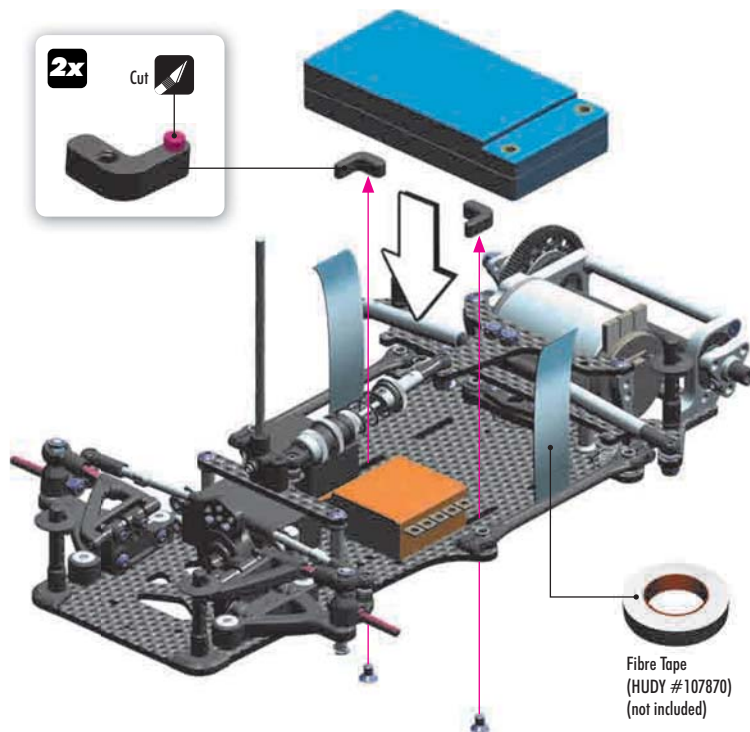
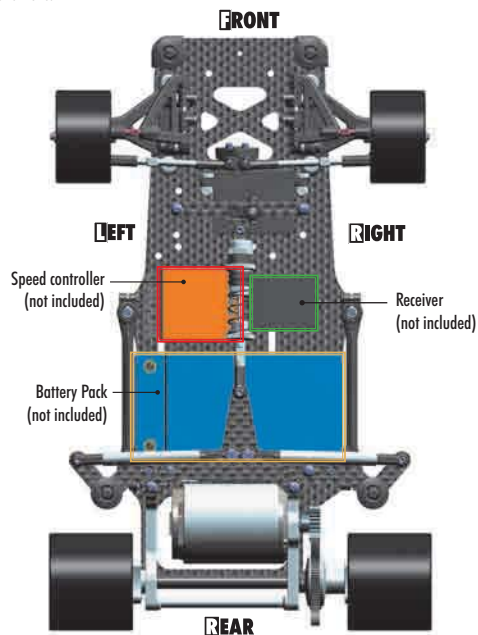
The battery pack has to be angled when installing or removing it from the car.



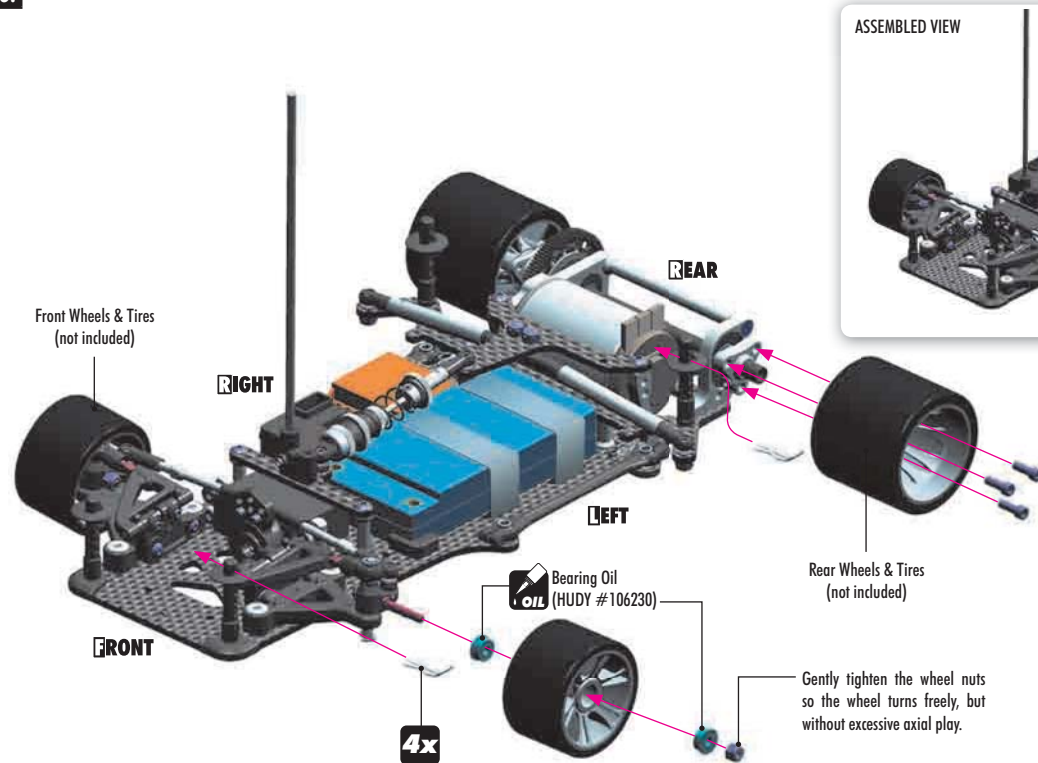
903305
SFH M3x5

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

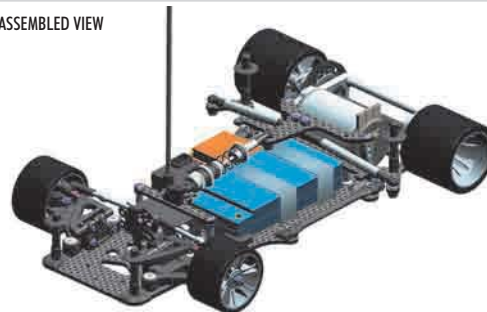
Cross-chassis alignment provides more neutral handling, making the car less sensitive to set-up changes and gives reduced steering responsive. Recommended for low- and medium-traction conditions.



903305
SFH M3x5



ASSEMBLED VIEW



375390
ALU SCH M3x8



951851
BB 1/8" x 5/16" x 9/64"



296530-0
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. 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 the same. We strongly recommend that you read and understand the Set-up Book completely.

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