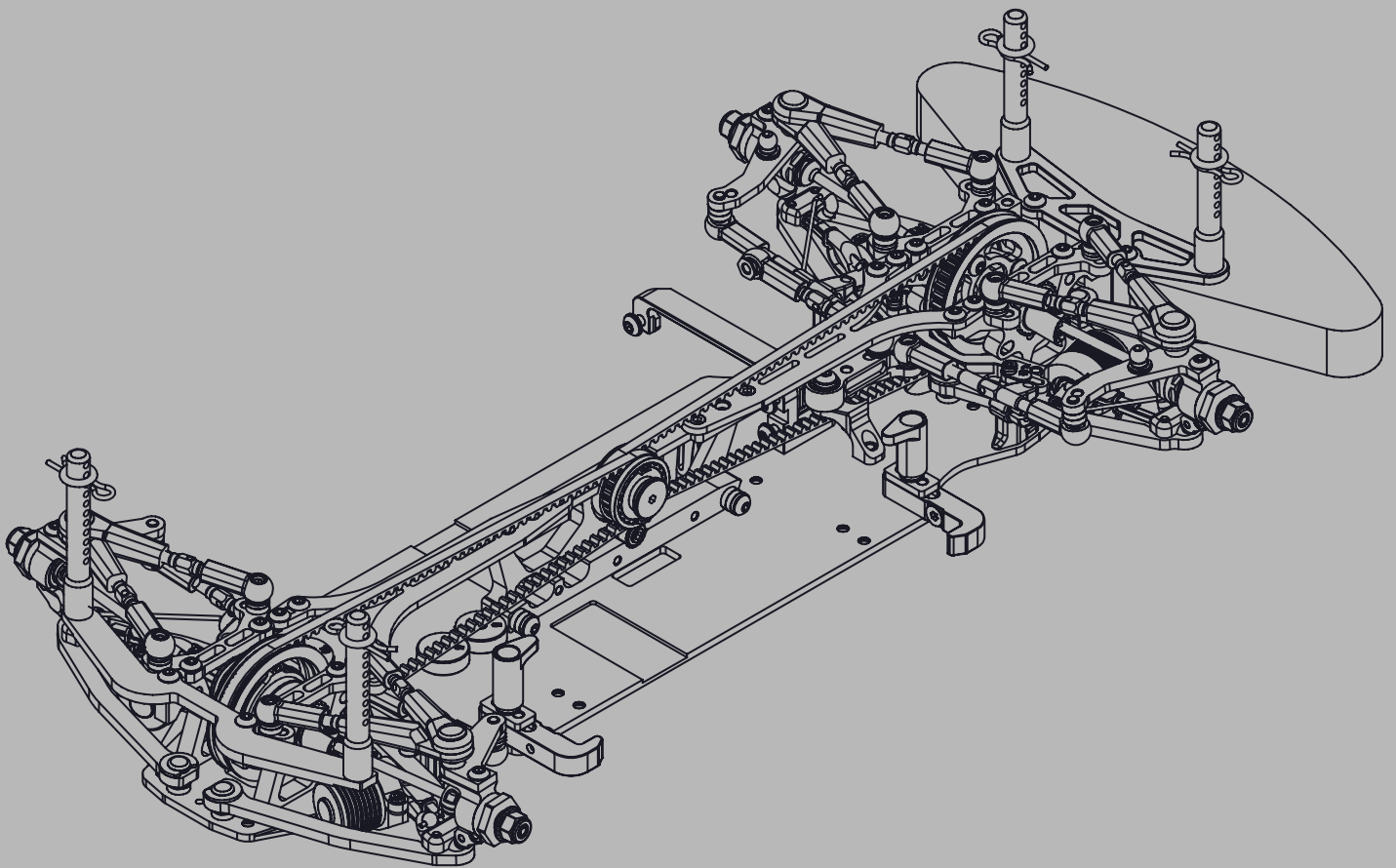


# **A800MMX**

**1/10-SCALE TOURING CAR**



## **INSTRUCTION MANUAL**

## INTRODUCTION

Congratulations on purchasing your Awesomatix car!

The A800MMX car was produced by UAB "Awesomatix" company.

The A800MMX car utilises many unique features, including some patented innovations.

## BEFORE YOU START

The A800MMX car is the high-quality, innovative 1/10-scale touring car and should be built only by persons with previous experience building R/C model racing cars.

This is not a toy and is not intended for use by children without direct supervision of a responsible, knowledgeable adult. Read the instruction manual carefully and fully understand it before beginning assembly. If you have any problems or questions please do not hesitate to contact the Awesomatix team at [support@awesomatix.com](mailto:support@awesomatix.com). If, for any reason, you decide that you do not want your A800MMX car you must not begin assembly.

Your A800MMX car cannot be returned to UAB "Awesomatix" for a refund or exchange if it has been fully or partially assembled.

This kit is a radio controlled model racing product and could cause harm and personal injury.

The A800MMX car is designed for use on r/c car race tracks. It should not be used in general public areas.

UAB "Awesomatix" accepts no responsibility for any injuries caused by making or using this kit.

Due to policy of continuous product development the exact specifications of the kit may vary.

UAB "Awesomatix" do reserve all rights to change any specifications without prior notice. All rights reserved.

## ASSEMBLY NOTES

Before starting each build-stage check that you have the right quantity and size of items for the build-stage. To assist you with the assembly of your A800MMX car we have included full-size images of all the small hardware parts laid out so that you can place items on top of the images to check are they correct size/length. You can find the useful tips and pictures of A800MMX assembling on the Internet site: <http://site.petitrc.com/reglages/awesomatix/SetupSheetsAwesomatixA800.html>

## GENERAL PRECAUTIONS

- Many of the items in this kit are small enough to be accidentally swallowed and are therefore potential choking hazards, making them potentially fatal. Please ensure that when assembling the kit you do so out of the reach of small/young children.
- Take care when building, as some parts may have sharp edges.
- Please read this manual carefully to understand which ancillary items (tools, electrics, electronics etc) are used with this kit. UAB "Awesomatix" accepts no responsibility for the operation of any such ancillary items.
- Exercise care when using tools and sharp instruments.
- Follow the operating instructions for the radio equipment at all times.
- Never touch rotating parts of the car as this may cause injury.
- Keep the wheels of the model off the ground when checking the operation of the radio equipment.
- To prevent any serious personal injury and/or damage to property, be responsible when operating all remote controlled models.
- The model car is not intended for use on roads or areas where its operation can conflict with or disrupt pedestrian or vehicular traffic.
- Do not run your car in poor light or if it goes out of sight. Any impairment to your vision may result in damage to your car or, worse, injury to others or their property.
- As a radio controlled device, your car is subject to radio interference from things beyond your control. Any such interference may cause a loss of control of your car so please consider this possibility at all times.
- When not using RC model, always disconnect and remove battery.
- Insulate any exposed electrical wiring to prevent dangerous short circuits. Take maximum care in wiring, connecting and insulating cables. Make sure cables are always connected securely. Check connectors for if they become loose and if so reconnect them securely. Never use R/C models with damaged wires. A damaged wire is extremely dangerous and can cause short-circuits resulting in fire.

## EQUIPMENT RECOMMENDED (NOT INCLUDED)

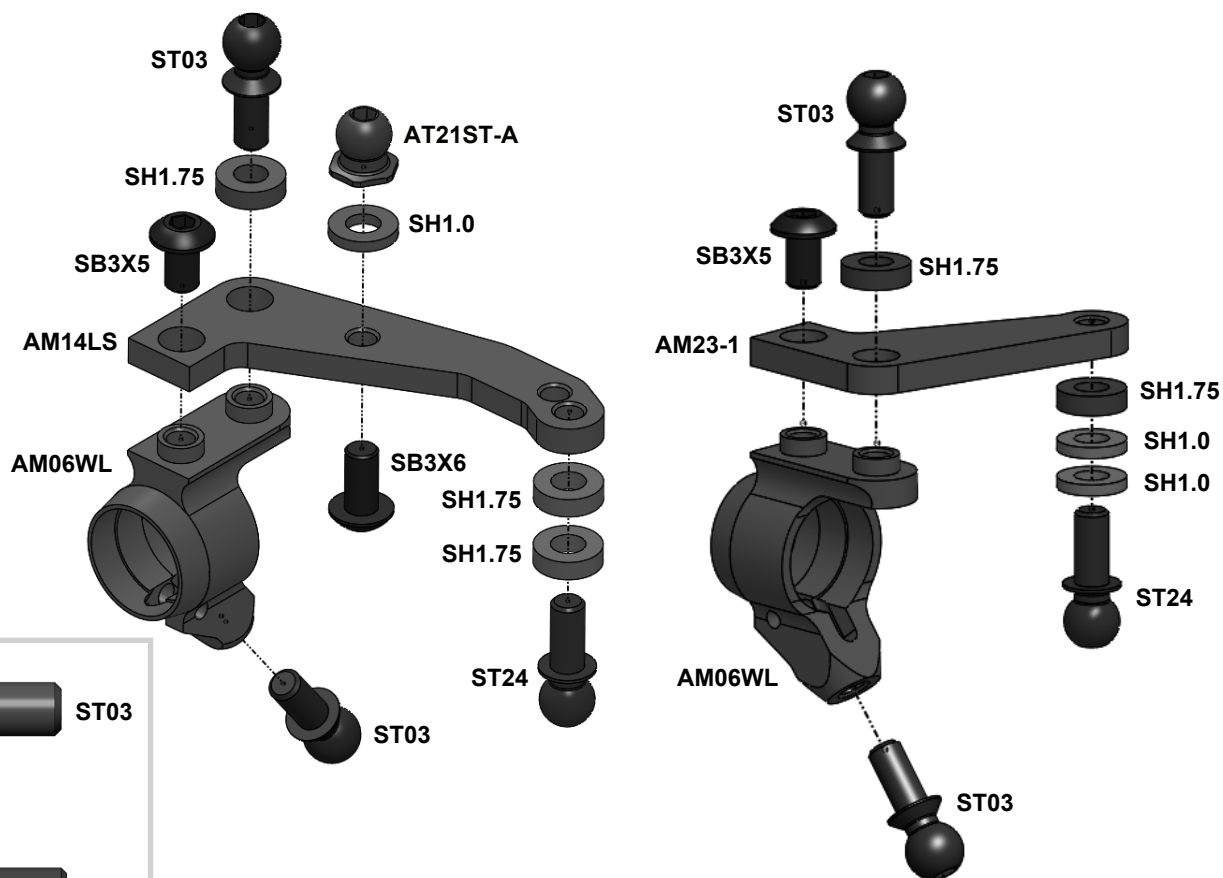
- Radio Transmitter
- Radio Receiver
- Electronic Speed Control
- Steering Servo
- Servo Horn
- Electric Motor
- Pinion Gear (64 or 48 Pitch)
- Spur Gear (64 or 48 Pitch)
- 7.4 V Li-Po Battery
- 190mm Body Shell
- Touring Car Wheels, Tires, Inserts

## TOOLS RECOMMENDED (NOT INCLUDED)

- 1.5mm, 2.0mm Hex Driver
- 5.5mm, 9mm, 3/8", 10mm Wrenches
- Callipers
- Hobby Knife
- Camber Gauge
- Ride Height Gauge
- Thin CA Glue
- Thread Lock
- Diff Silicone Oil
- 450cst Silicone Shock Oil
- Joint Grease



## STEP 1

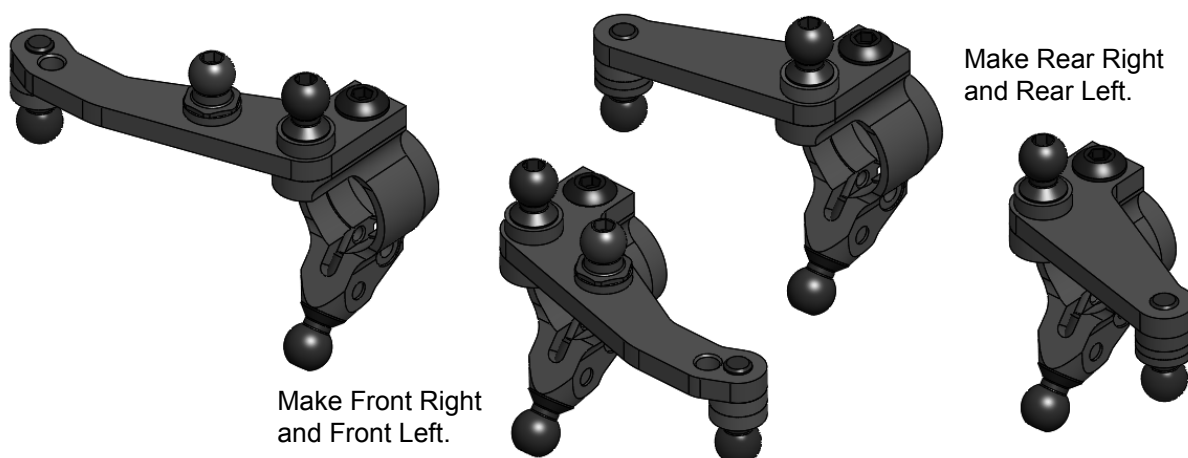


**Note:** The last turns of the lower **ST03** Ball Studs and **SB3X5** screws can be tight. Screw them with force.

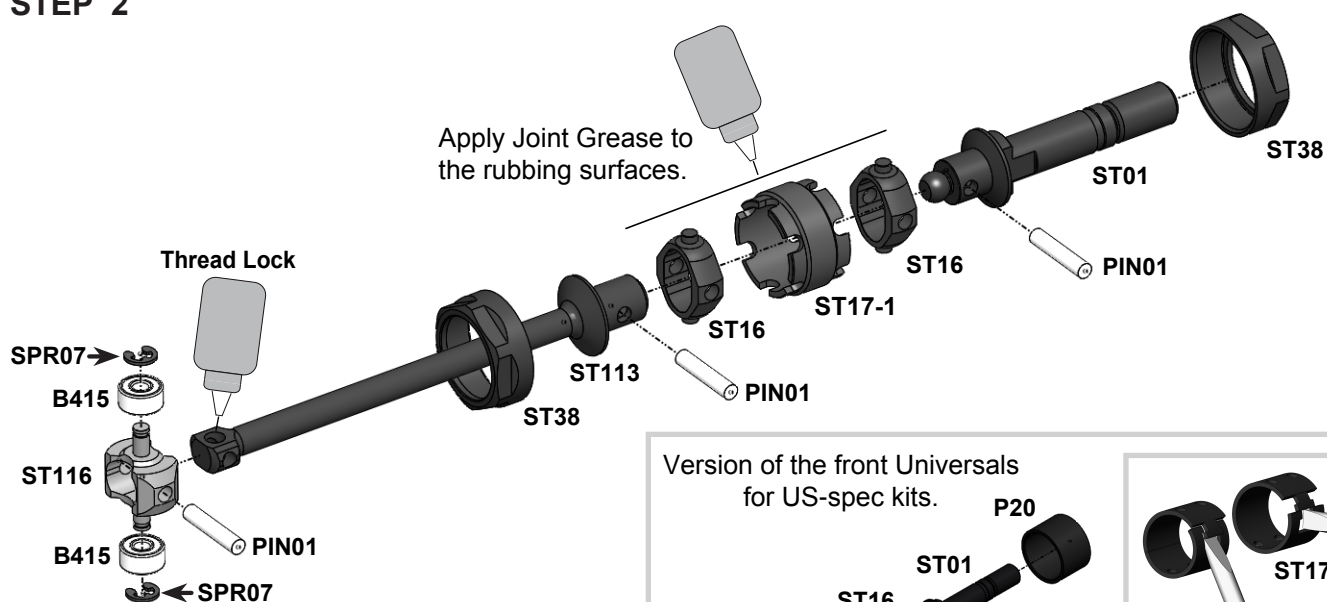
	<b>SB3X5</b>	M3x5 Button Head Screw	x4	<b>ST03</b>	Ball Stud	x8
	<b>SB3X6</b>	M3x6 Button Head Screw	x2	<b>AM06WL</b>	Steering Block	x4
	<b>SH1.0</b>	6x3x1mm Spacer (Gray)	x6	<b>AM14LS</b>	Steering Arm	x2
	<b>SH1.75</b>	6x3x1.75mm Spacer (Black)	x10	<b>AM23-1</b>	Rear Steering Arm	x2
	<b>AT21ST-A</b>	Pivot Ball	x2	<b>ST24</b>	4,8mm Ball Stud	x4

## STEP 1 FINISHED

**Note:** Use other combinations of **SH0.5**, **SH1.0** and **SH1.75** Spacers under appropriate Pivot Balls and Ball Studs to adjust your car set-up to better suit different track conditions.



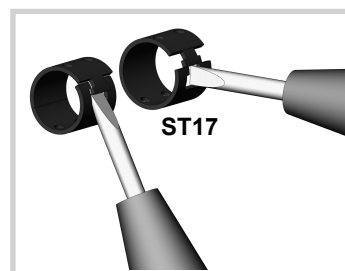
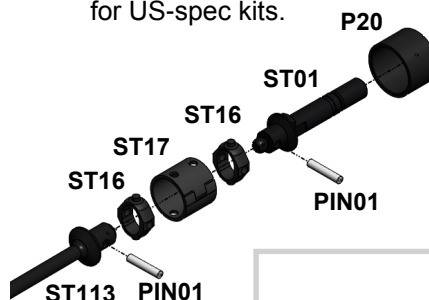
## STEP 2



### Attention!



Note the mutual orientation of **ST16** at screwing of **ST38**.  
The pins of both **ST16** should be parallel to each other. The recommended wrench for screwing of **ST38** is 3/8 US standard wrench (~9,53 mm).

Version of the front Universals for US-spec kits.

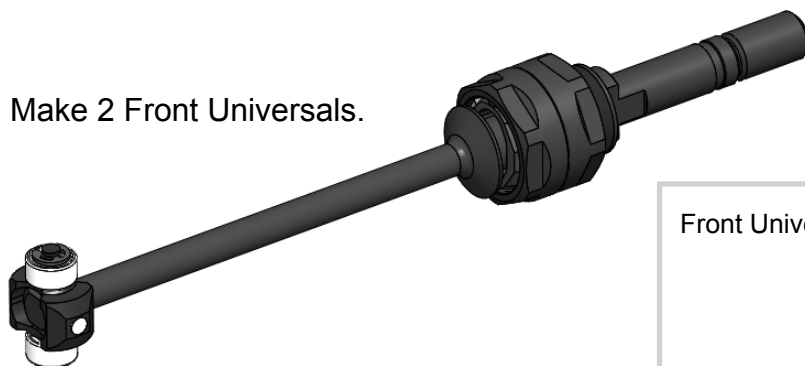


1. Insert a 2.5mm flat screwdriver tip into **ST17** Universal Ring slot, bend of the lug and turn screwdriver through 90 deg.
2. Take out/insert **ST16** U-Joint Cross from/ into unclamped **ST17** Universal Ring.

## STEP 2 FINISHED

	<b>PIN01</b> 1.5x7.8 Pin	x6	<b>ST01</b> Front Axle	x2
	<b>SPR07</b> E-Ring	x4	<b>ST16</b> U-Joint Cross	x4
	<b>B415</b> Bearing	x4	<b>ST17-1</b> Universal Ring	x2
	<b>ST116</b> IFJ/IRJ Cross	x2	<b>ST113</b> Front Universal Bone	x2
			<b>ST38</b> Universals Nut	x4

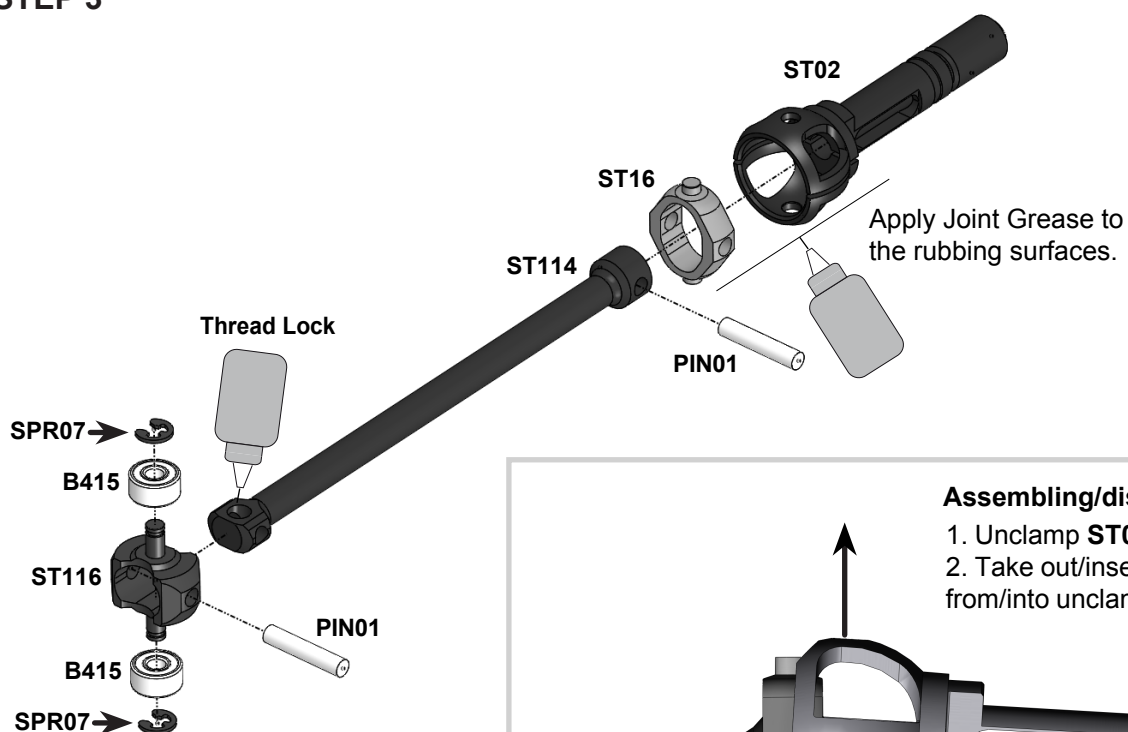
Make 2 Front Universals.



Front Universals for US-spec kits.

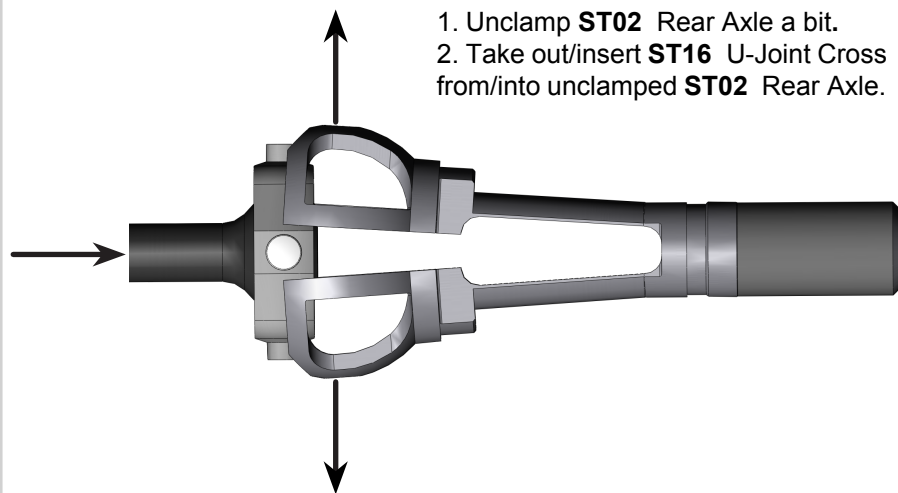


## STEP 3



### Assembling/disassembling method

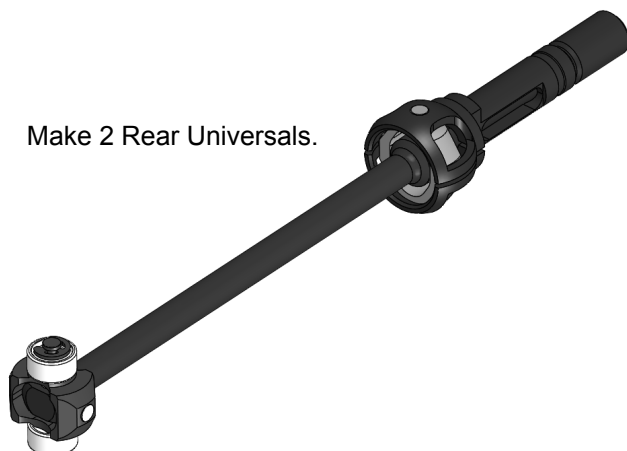
1. Unclamp **ST02** Rear Axle a bit.
2. Take out/insert **ST16** U-Joint Cross from/into unclamped **ST02** Rear Axle.



	<b>PIN01</b> 1.5x7.8 Pin	x4	<b>ST02</b> Rear Axle	x2
	<b>SPR07</b> E-Ring	x4	<b>ST16</b> U-Joint Cross	x2
	<b>B415</b> Bearing	x4	<b>ST114</b> Rear Universal Bone	x2
			<b>ST116</b> IFJ/IRJ Cross	x2

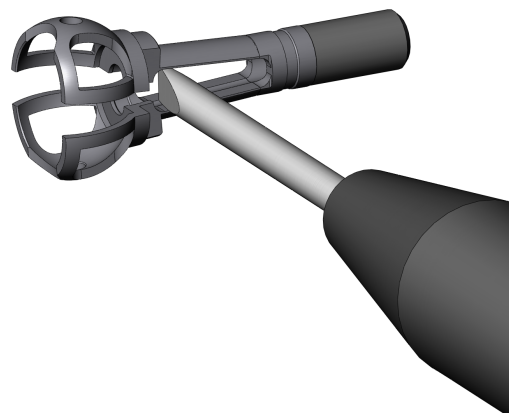
## STEP 3 FINISHED

Make 2 Rear Universals.



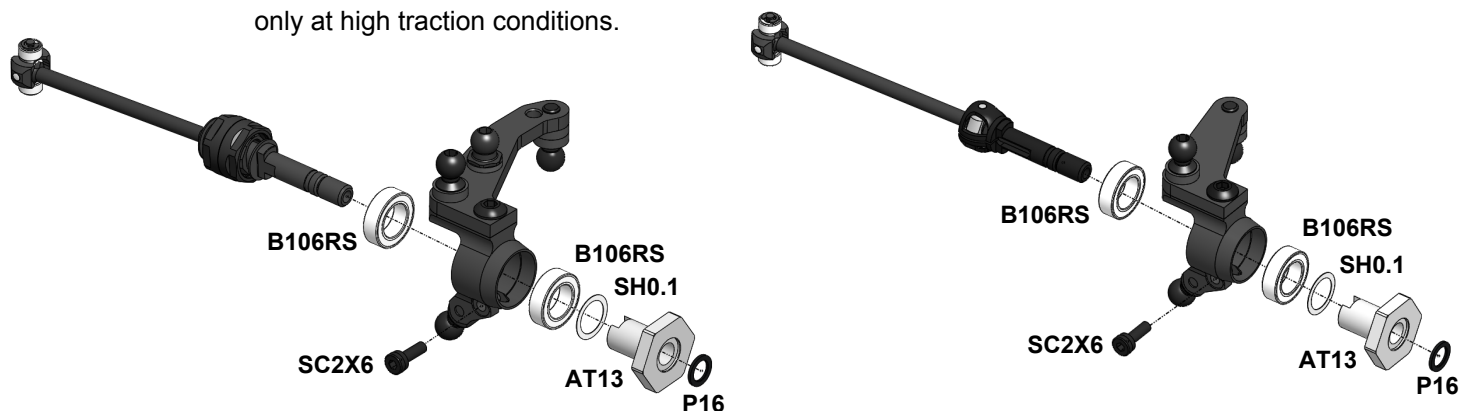
### Tip:

Use a 2.5mm flat screwdriver to unclamp **ST02** Rear Axle.



## STEP 4

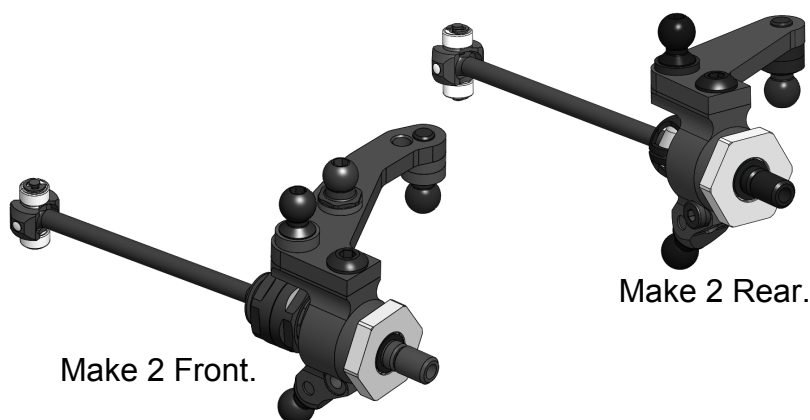
**Note:** We recommend to install **SC2X6** screws only at high traction conditions.



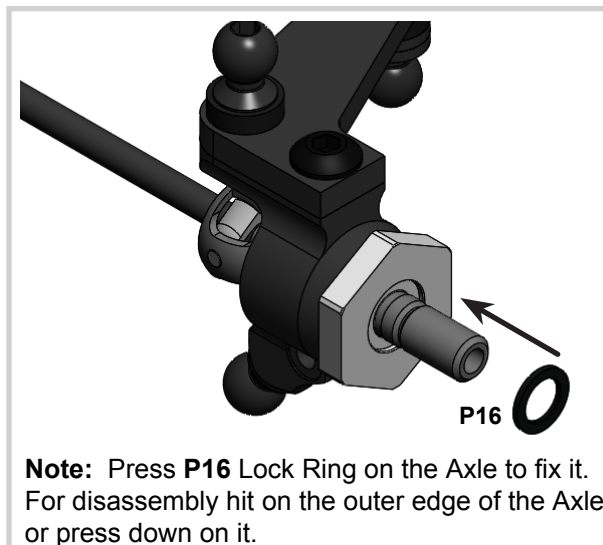
	<b>B106RS</b> MR106RS Bearing	x8		<b>AT13</b> Wheel Hex	x4
	<b>SC2X6</b> M2x6 Cap Head Screw	x4		<b>SH0.1</b> 6x8x0.1mm Shim	x4
	<b>P16</b> Lock Ring (transparent colour)	x4			

## STEP 4

### FINISHED



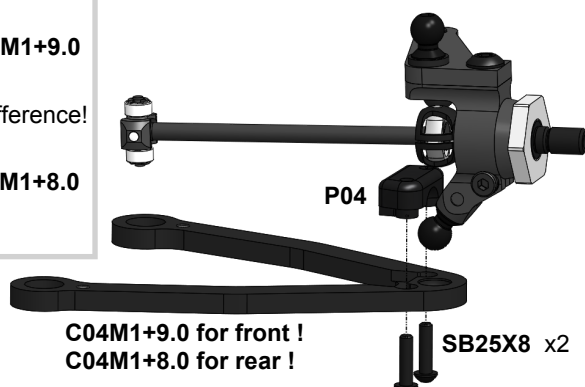
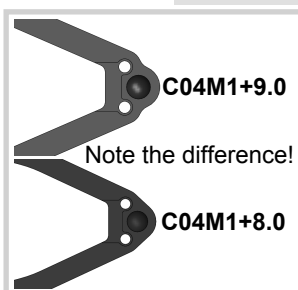
**Note:** Rear Universals may be a bit tight at this stage. But don't worry as the Rear Universals take its true position after the wheels are mounted.



**Note:** Press **P16** Lock Ring on the Axle to fix it. For disassembly hit on the outer edge of the Axle or press down on it.

## STEP 5

	<b>SB25X8</b> M2.5x8 Button Head Screw	x8
	<b>C04M1+8.0</b> Suspension Arm	x2
	<b>C04M1+9.0</b> Suspension Arm	x2
	<b>P04</b> Arm Hasp	x4

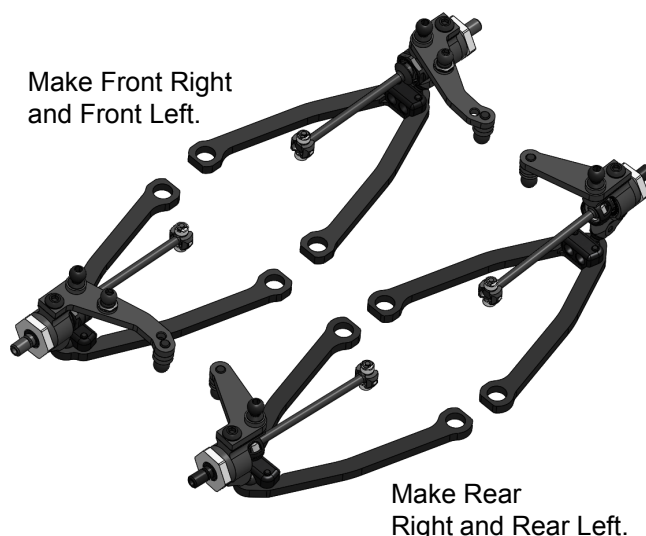


**C04M1+9.0** for front !  
**C04M1+8.0** for rear !

**Note:**  
**P04** have the tight fit in the **C04M1+8.0** and **C04M1+9.0** arms. Don't overtighten **SB25X8** screws to avoid **ST03** binding. Achieve a free action of the ball joint with a minimal backlash.

## STEP 5 FINISHED

Make Front Right and Front Left.



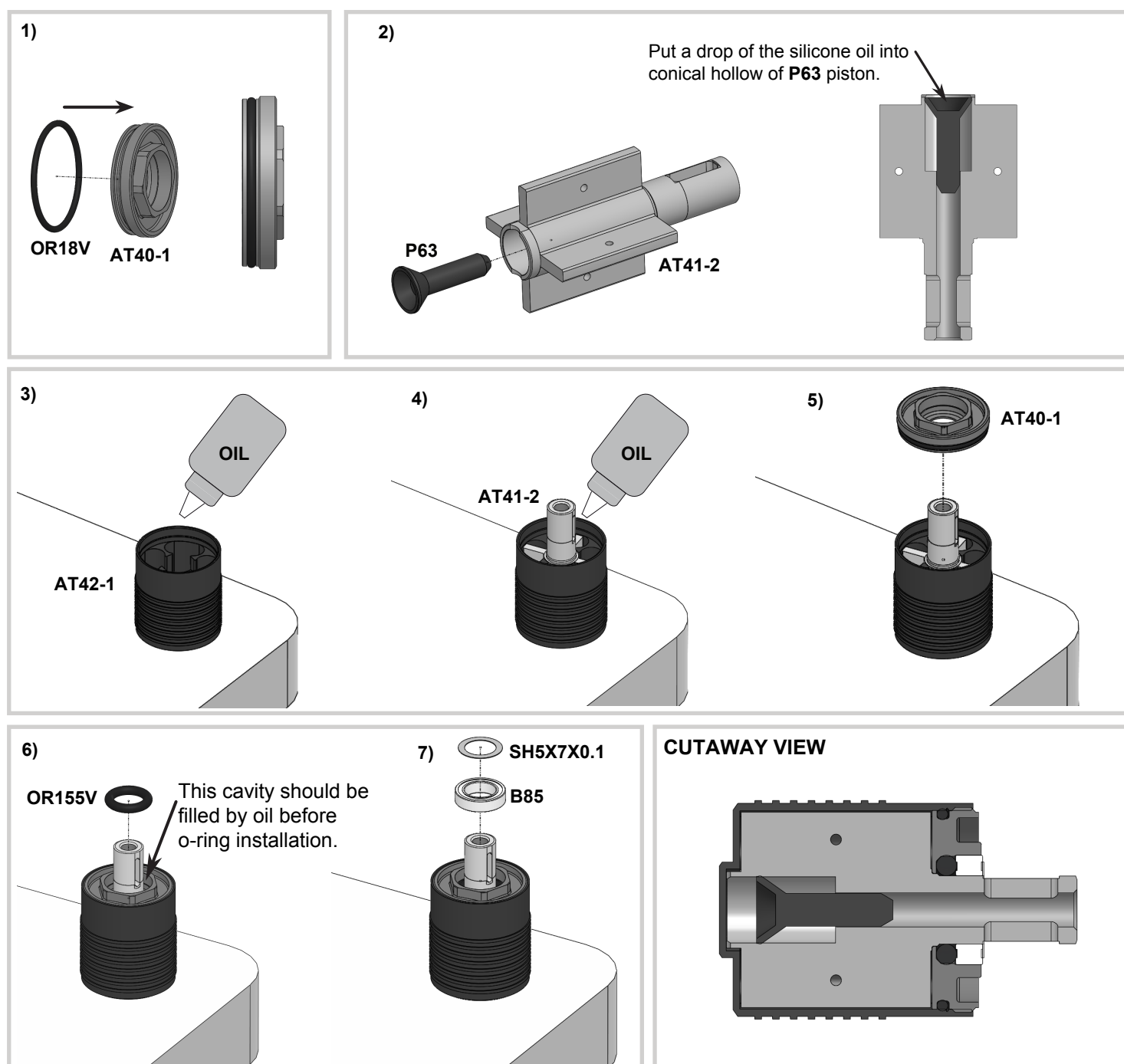
Make Rear Right and Rear Left.

## Assembling of the Dampers

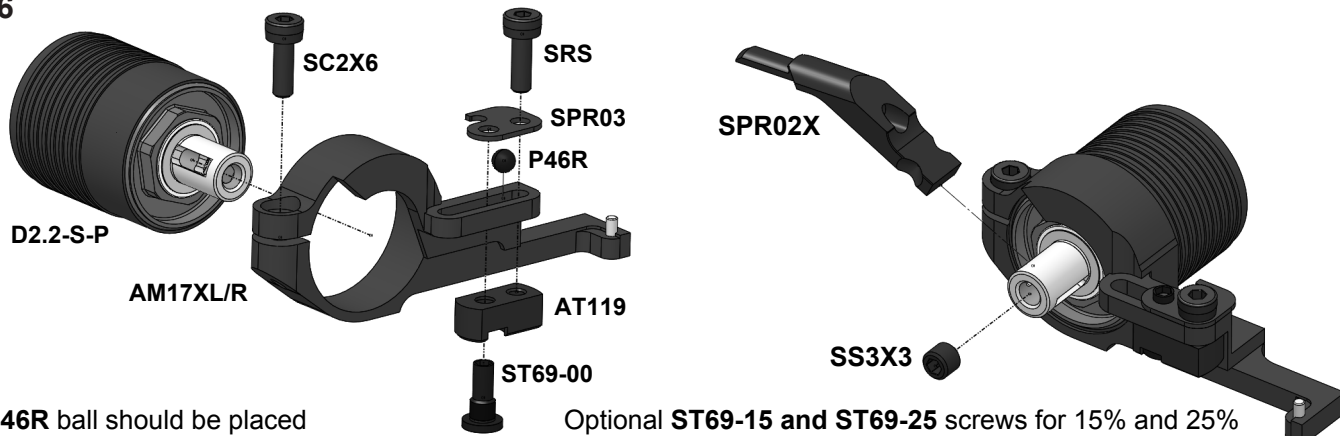
**Note:** We recommend to use 450 cst pure silicone oil for **D2.2-S-P** dampers of this kit.

- 1) Stretch and place **OR18V** O-ring in the groove of the **AT40-1** Cup.
- 2) Insert **P63** Piston into **AT41-2** Vane cavity. Align the outer face of **P63** Piston with the outer edge of **AT41-2** Vane cavity. Keep **AT41-2** in vertical position and add a drop of oil into outer conical hollow of **P63** Piston to fill this hollow fully.
- 3) Stand **AT42-1** Case up and fill ~1/2 of volume with the desirable silicone oil. Insert **AT41-2** Vane into **AT42-1** Case slowly full way down.
- 4) Add more silicone oil. The oil should cover the **AT41-2** Vane completely. It is highly recommended the damper should be placed into a shock air remover. Otherwise let the damper sit for 30m+ to allow air bubbles to escape.
- 5) With the damper still exactly vertical (important !), screw **AT40-1** Cup into the **AT42-1** Case with a 9mm socket wrench until fully threaded. Do not force the **AT40-1** Cup - once aligned, it will screw on easily. The excessive oil should go out through the gap between **AT40-1** and **AT41-2** Vane. Please don't remove this oil from the bearing cavity of **AT40-1** Cup at this stage!
- 6) Place **OR155V** O-ring into **AT40-1** Cup. You can use a piece of an appropriate tube to press o-ring slowly and fully into cavity.
- 7) Place **B85** bearing and one **SH5X7X0.1** shim onto **AT41-2** Vane output shaft.
- 8) Clean up oil off the outer surface of damper.

For disassembling please do all steps in the reverse order.



## STEP 6



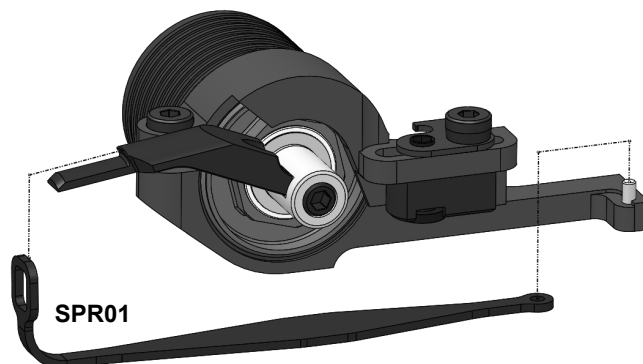
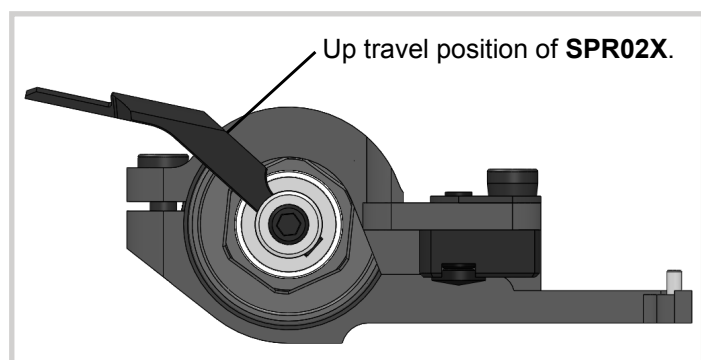
Note: **P46R** ball should be placed between **SRS** screw and **ST69-00** screw.

Optional **ST69-15** and **ST69-25** screws for 15% and 25% spring's action progression are available (not included).

	<b>SC2X6</b> M2x6 Cap Head Screw	x4	<b>AM17XR</b> Damper Holder Right	x2
	<b>SRS</b> Spring Rating Screw	x4	<b>AM17XL</b> Damper Holder Left	x2
	<b>SS3X3</b> Set Screw	x4	<b>D2.2-S-P</b> Damper	x4
	<b>SPR03</b> Shock Pointer	x4	<b>SPR01</b> STD Shock Spring	x4
			<b>SPR02X</b> Shock Rod Guide	x4
			<b>ST69-00</b> Ride Height Screw	x4
			<b>AT119</b> Spring Screw Holder	x4
			<b>P46R</b> Ball Piston	x4

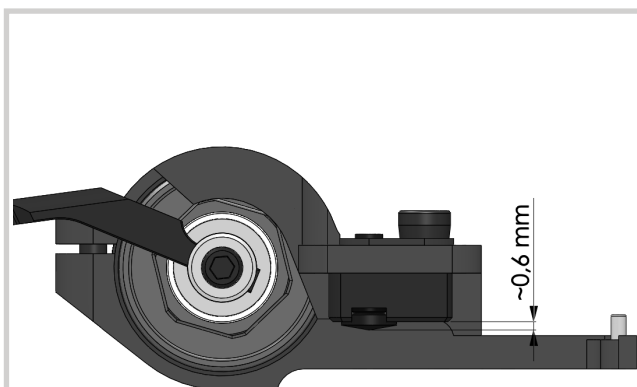
## STEP 6 (cont'd)

**Attention!** After installation of **SPR02X** rotate the complete **D2.2-S-P** damper within **AM17XR/L** until the maximum up travel is reached and secure **SC2X6** screw in the **AM17X/RL** after that. At the max up travel position the **SPR02X** should touch the stopper on **AM17X/RL** !!!



## STEPS 6 FINISHED

Assemble 2 Right Shocks and 2 Left Shocks.



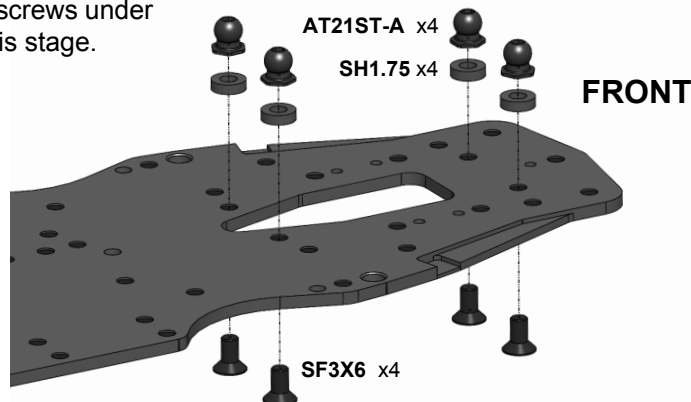
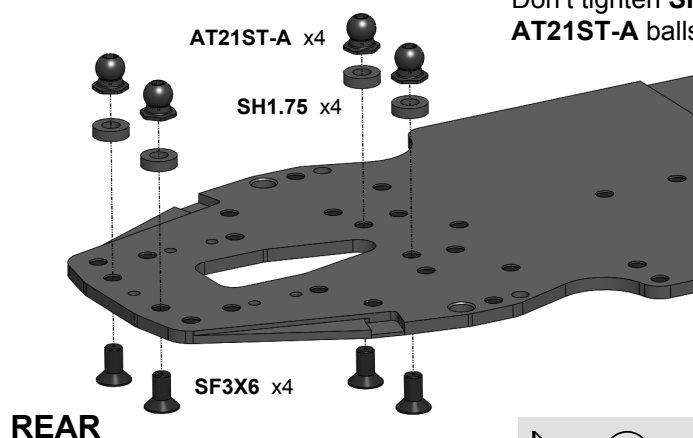
**Note:**  
Initial position of **ST69-0** Screw is ~0,6mm.



## STEP 7

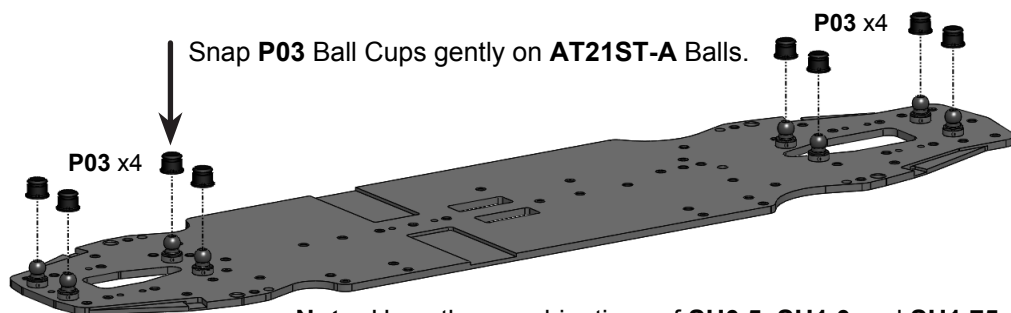
**Note:** C01B-X-MM2 Carbon Lower Deck is used in A800MMX kit.  
C01B-X-MMA Alloy Lower Deck is used in A800MMXA kit.

Don't tighten **SF3X6** screws under **AT21ST-A** balls at this stage.



	<b>SF3X6</b> M3x6 Flat Head Screw	x8	<b>P03</b> Arm Ball Cap	x8
	<b>SH1.75</b> 6x3x1.75mm Spacer (Black)	x8	<b>AT21ST-A</b> Pivot Ball	x8

## STEP 7 FINISHED



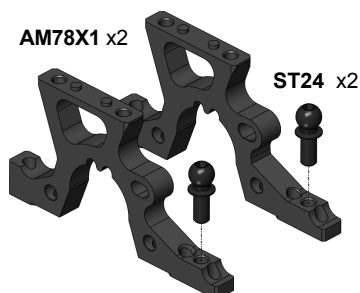
**Note:** Use other combinations of **SH0.5**, **SH1.0** and **SH1.75** spacers under appropriate **AT21ST-A** balls to adjust your car set-up.

Crimp the **P03** if movement is tight.



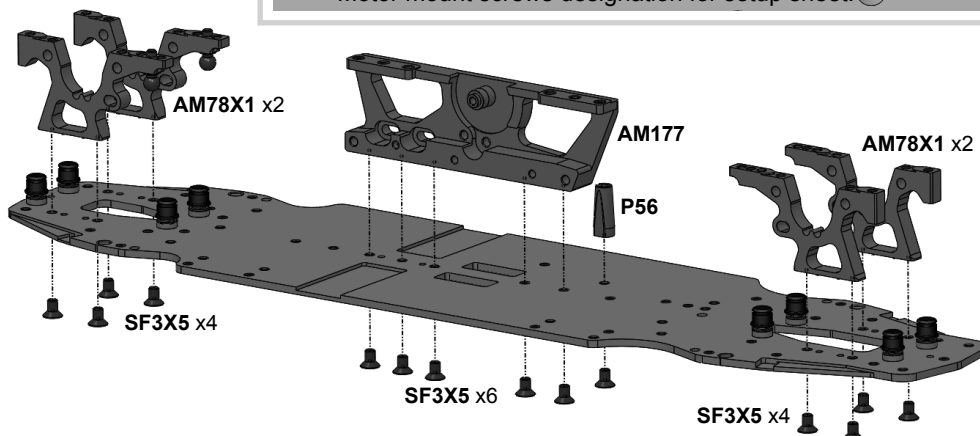
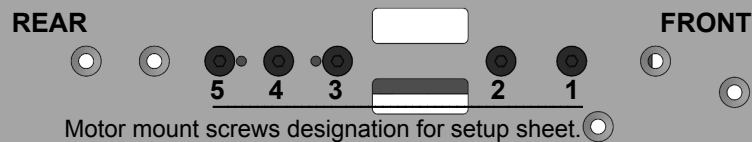
## STEP 8

Install two **ST24** Ball Studs on two rear **AM78X1** Bulkheads.

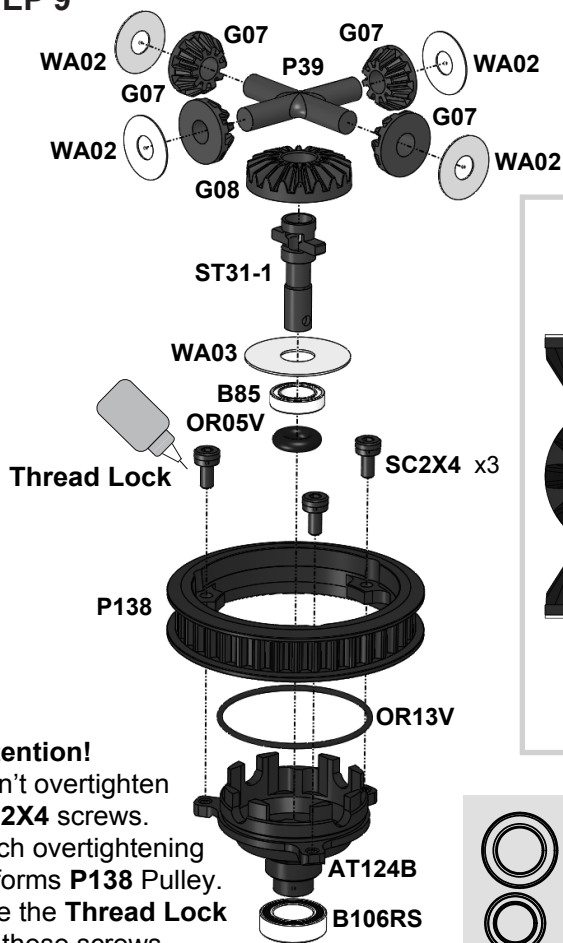


	<b>SF3X5</b> M3x6 Flat Head Screw	x14	<b>ST24</b> 4,8mm Ball Stud	x2
			<b>AM177</b> Motor Mount	x1
			<b>AM78X1</b> Bulkhead	x4
			<b>P56</b> Antenna Holder	x1

**SF3X5** screws can be added or removed from the motor mount to alter overall flex, as well as change the flex distribution along the chassis.



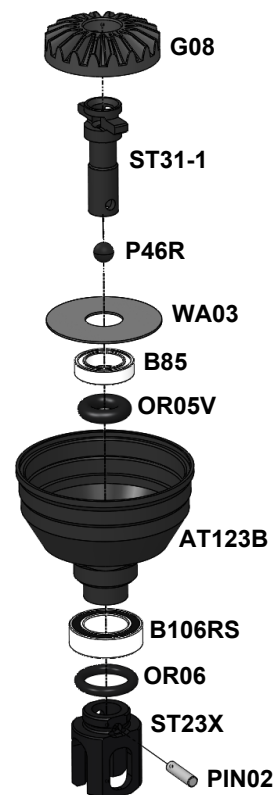
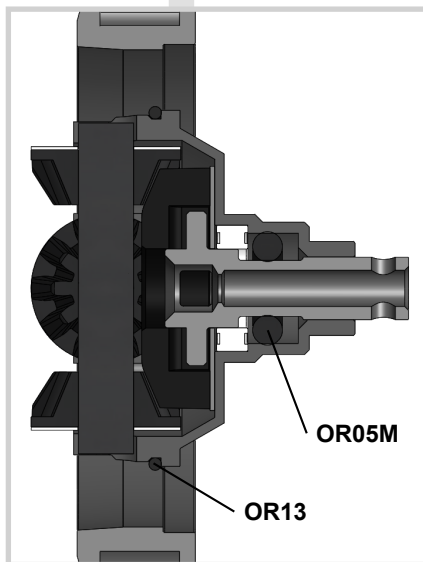
## STEP 9



### Attention!

Don't overtighten **SC2X4** screws. Such overtightening deforms **P138** Pulley. Use the **Thread Lock** for these screws.

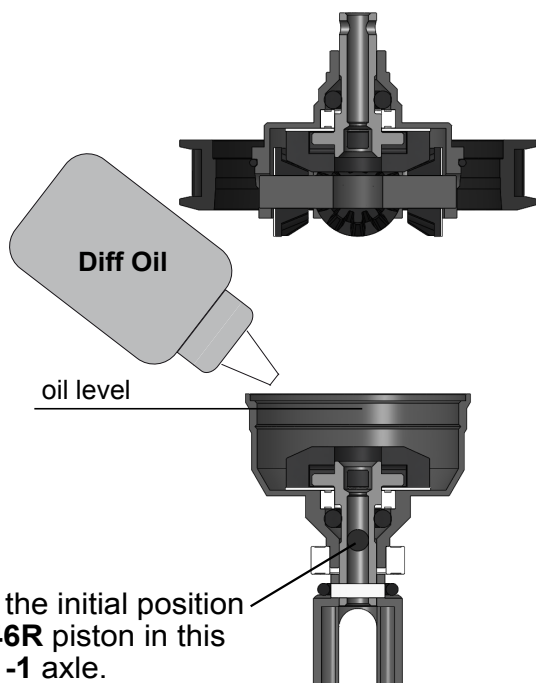
## STEP 10



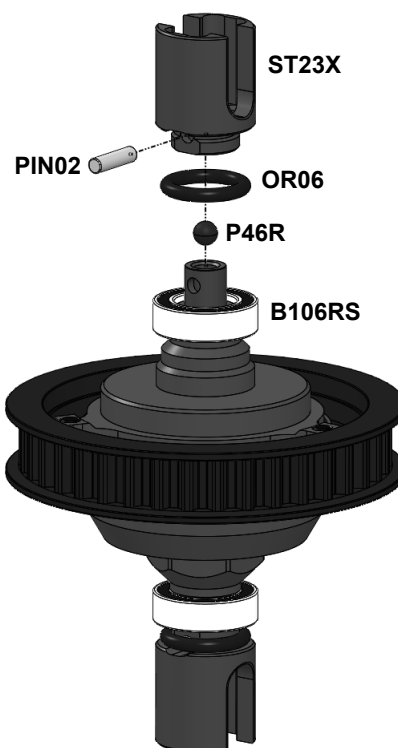
	<b>B106RS</b>	MR106RS Bearing	x2	<b>AT123B</b>	GD2B Case1	x1
	<b>B85</b>	MR85 Bearing	x2	<b>AT124B</b>	GD2B Case2	x1
	<b>OR05V</b>	O-Ring	x2	<b>P138</b>	38T Pulley	x1
	<b>OR06</b>	O-Ring	x2	<b>ST23X</b>	IRJ Outdrive	x2
	<b>P46R</b>	Piston	x2	<b>ST31-1</b>	GD2 Output Axle	x2
	<b>PIN02</b>	1,5x5,8 Pin	x2	<b>P39</b>	GD2 Cross Pin	x1
	<b>SC2X4</b>	M2x4 Cap Head screw	x3	<b>OR13V</b>	13 mm O-Ring	x1
				<b>G07</b>	GD2 Satellite Gear	x4
				<b>G08</b>	GD2 Bevel Gear	x1
				<b>WA02</b>	3.5x9.5x0.2 Washe	x4
				<b>WA03</b>	5x15.5x0.3 Washer	x2

## STEP 11

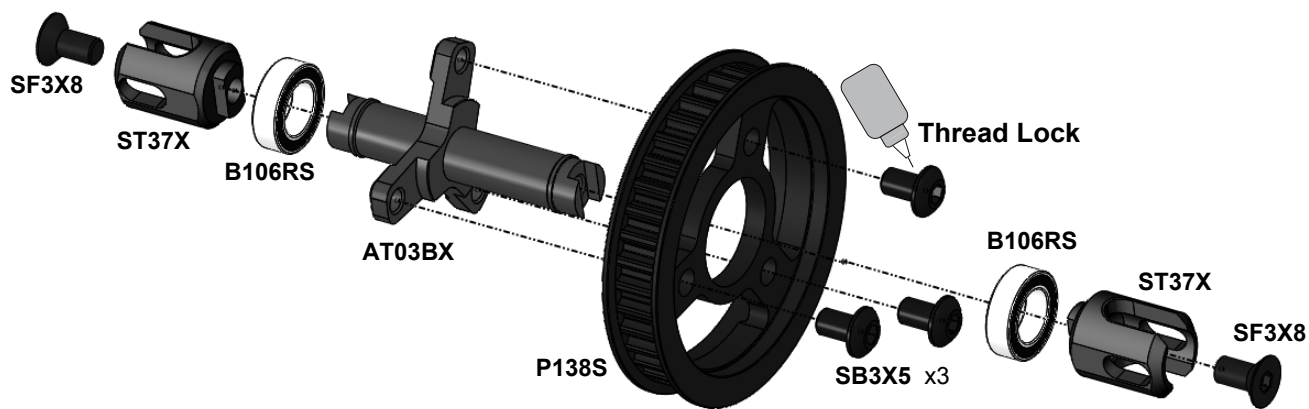
Fill with desirable silicone oil (not included). Screw **AT123B** GD2B Case with 10mm wrench slowly. The excessive oil will go out through the **ST31-1** axial hole.



## STEP 12

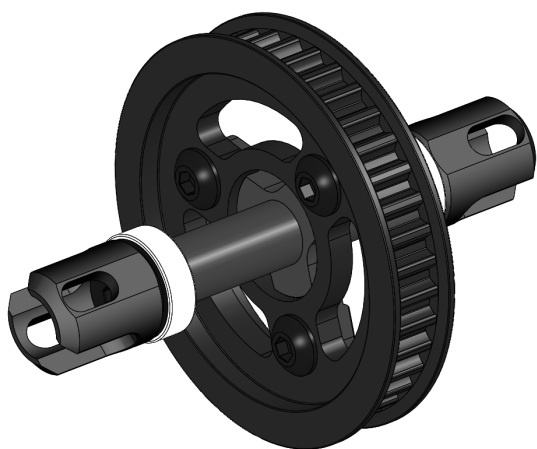


## STEP 13



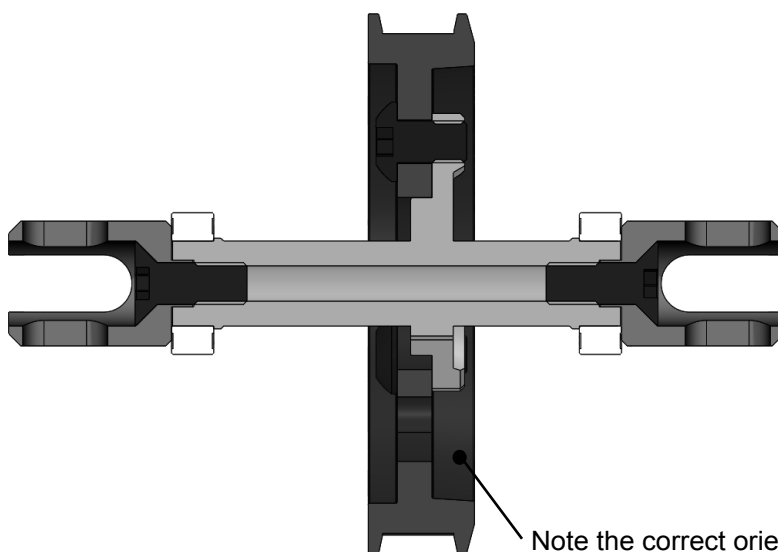
	<b>B106RS</b>	MR106RS Bearing	x2		<b>ST37X</b>	Spool Outdrive	x2
	<b>SF3X8</b>	M3x8 Flat Head Screw	x2		<b>AT03BX</b>	Spool Axle	x1
	<b>SB3X5</b>	M3x5 Button Head Screw	x3		<b>P138S</b>	Spool38T Pulley	x1

## STEP 13 FINISHED



### Attention!

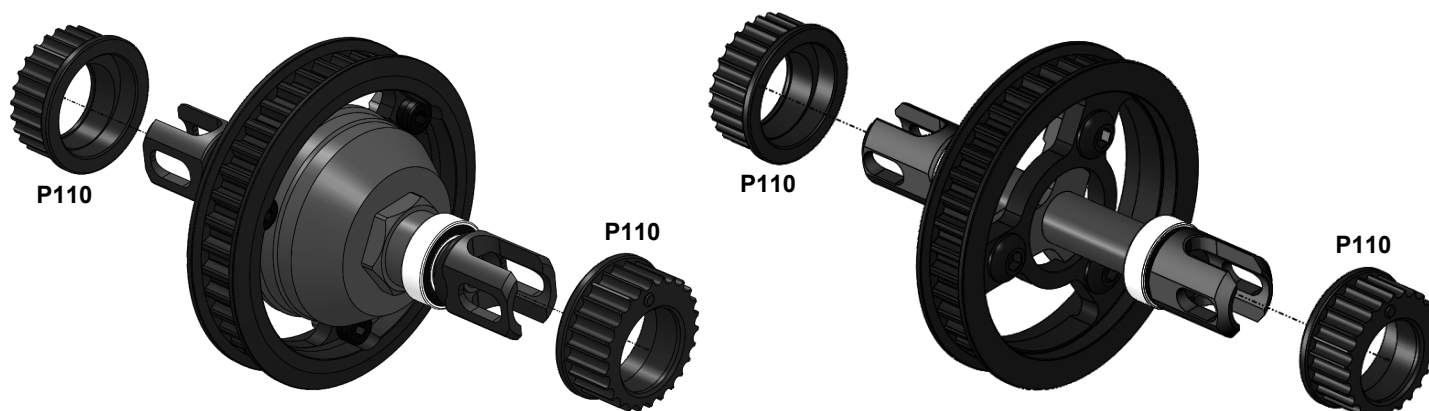
Don't overtighten **SB3X5** screws.  
Such overtightening deforms **P138S** Pulley.  
Use the **Thread Lock** for these screws.



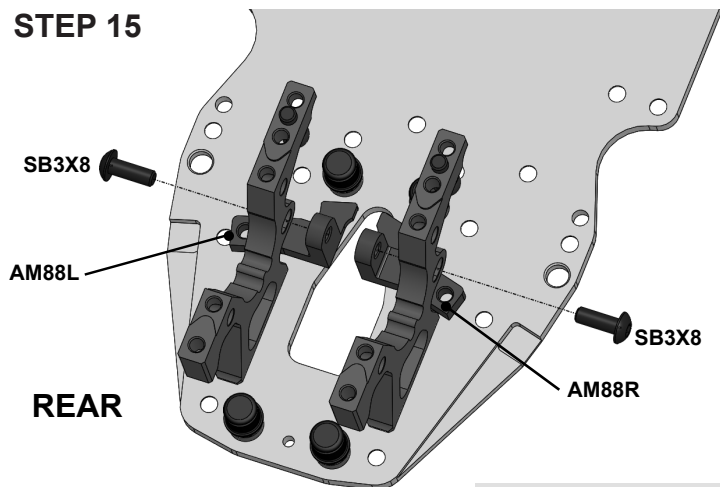
Note the correct orientation of **AT03BX** Axle regarding to **P138S** Pulley.

## STEP 14

**P110** Bearing Housing x4



## STEP 15

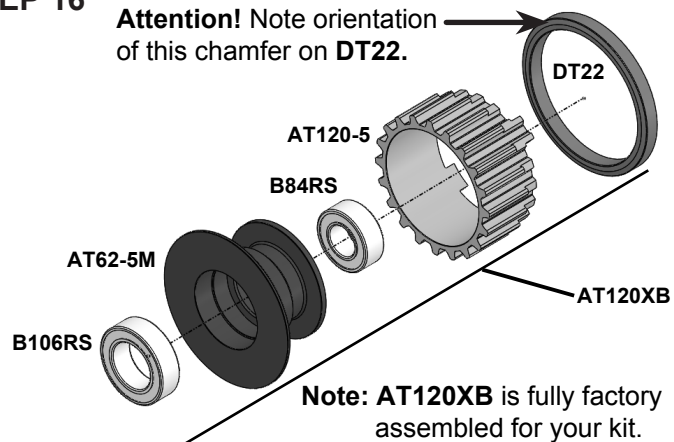


**Attention!**  
Don't tighten **SB3X8** screws on this stage.

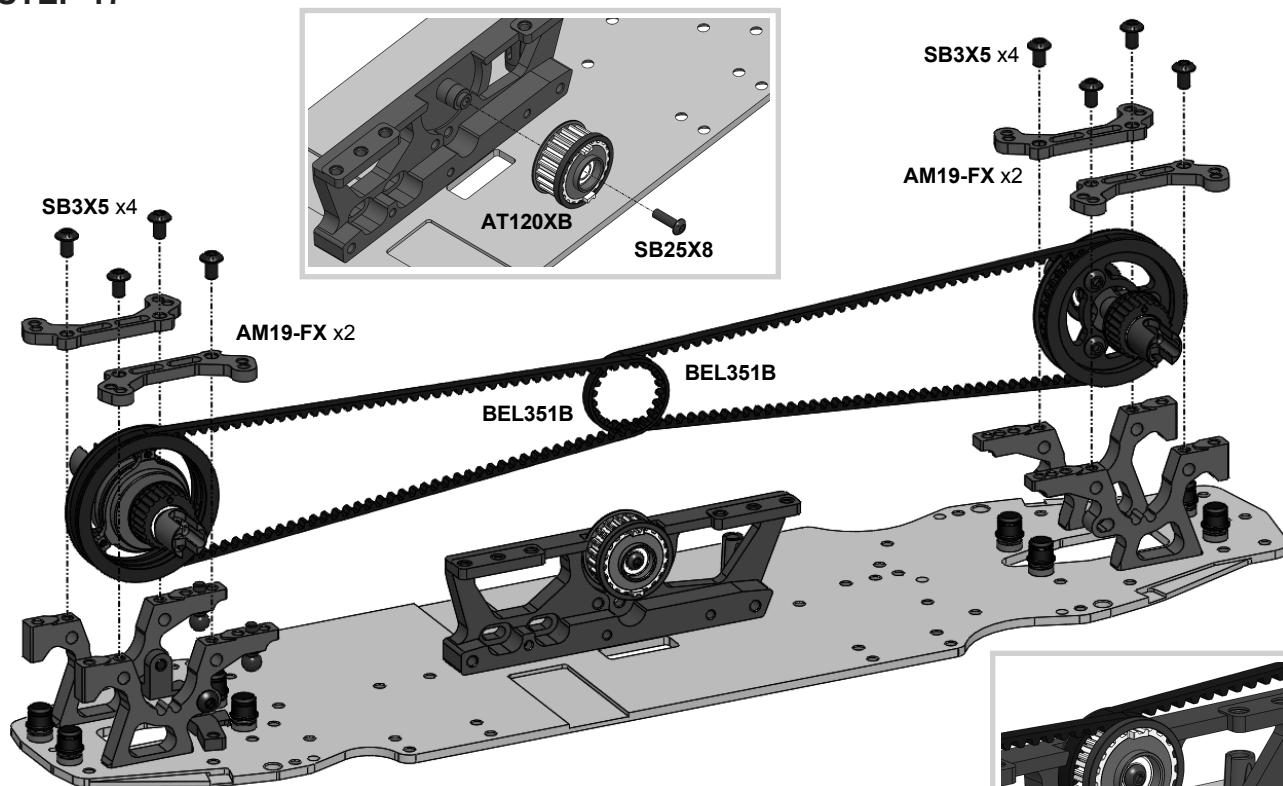
	<b>SB3X5</b> M3x5 Button Head Screw	x8	<b>AM88R</b> Shock Holder R	x1
	<b>SB25X8</b> M2.5x8 Button Head Screw	x1	<b>AM88L</b> Shock Holder R	x1
	<b>SB3X8</b> M3x8 Button Head Screw	x2	<b>AT120XB</b> 20T Alloy Pulley	x1
			<b>AM19-FX</b> Upper Arm Holder	x4
			<b>BEL351B</b> Belt 351 mm	x2

## STEP 16

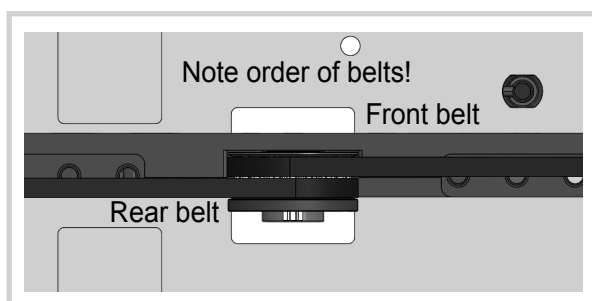
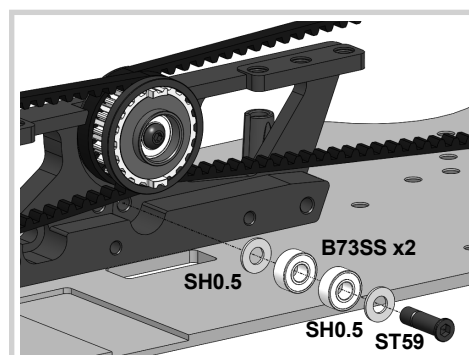
**Attention!** Note orientation of this chamfer on **DT22**.



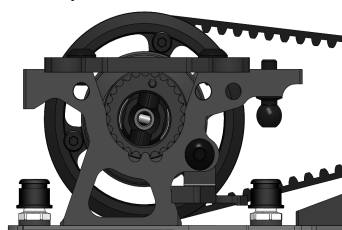
## STEP 17



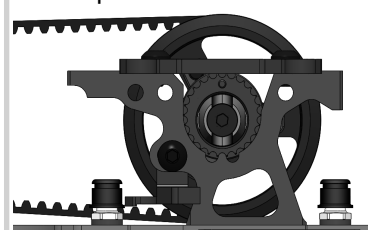
	<b>B73SS</b> Ball bearing	x2
	<b>SH0.5</b> 6x3x0.5mm Spacer (Silver)	x2
	<b>ST59</b> LS2 Long Screw	x1



Initial position of rear **P110**

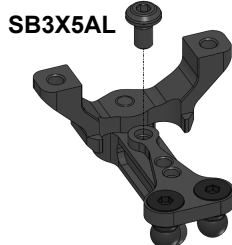
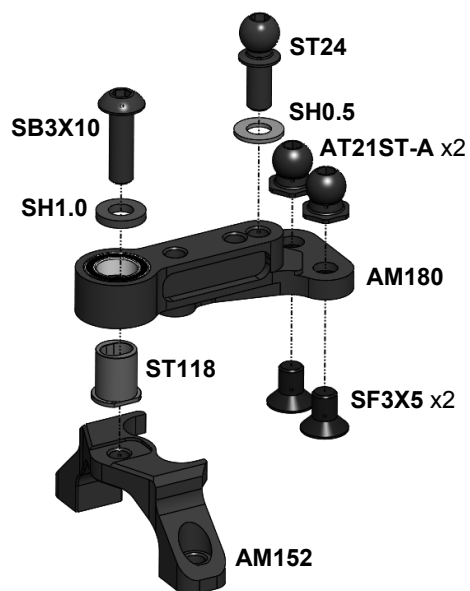


Initial position of front **P110**

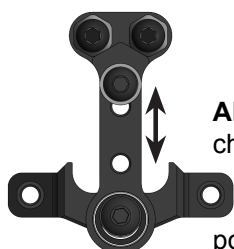
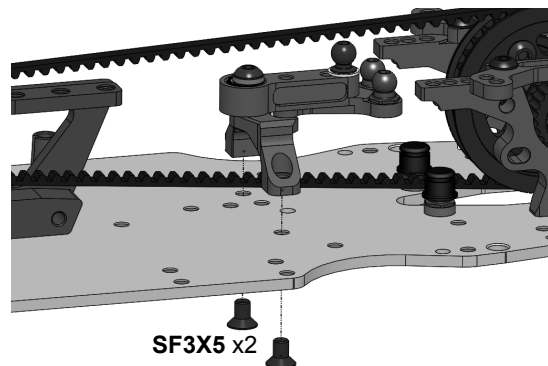




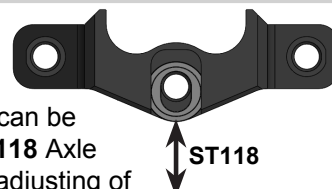
## STEP 18



Use **SB3X5AL** screw as a steering limiter (usually on carpet tracks).

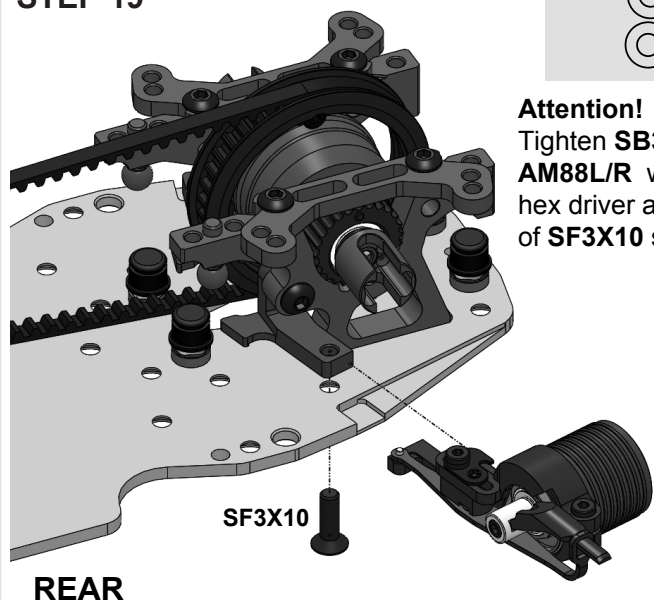


**AM180** Bellcrank position can be changed via shifting of **ST118** Axle within 1mm range for adjusting of the Ackermann setting. We recommend the rearward position for carpet and the forward position for asphalt tracks.



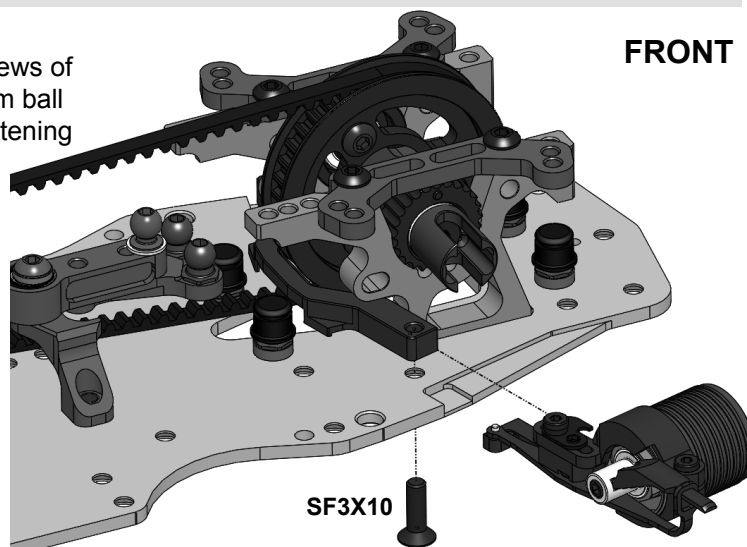
	<b>SFX5</b> M3x5 Flay Head Screw	x4	<b>AM180</b> SB Bellcrank	x1
	<b>SB3X10</b> M3x10 Button Head Screw	x1	<b>AM152</b> SB Stand	x1
	<b>SF3X10</b> M3x10 Flat Head Screw	x4	<b>ST118</b> SB Bellcrank Axle	x1
	<b>SH0.5</b> 6x3x0.5mm Spacer (Silver)	x1	<b>ST24</b> 4,8x6mm Ball Stud	x1
	<b>SH1.0</b> 6x3x1mm Spacer (Gray)	x1	<b>AT21ST-A</b> Pivot Ball	x2

## STEP 19



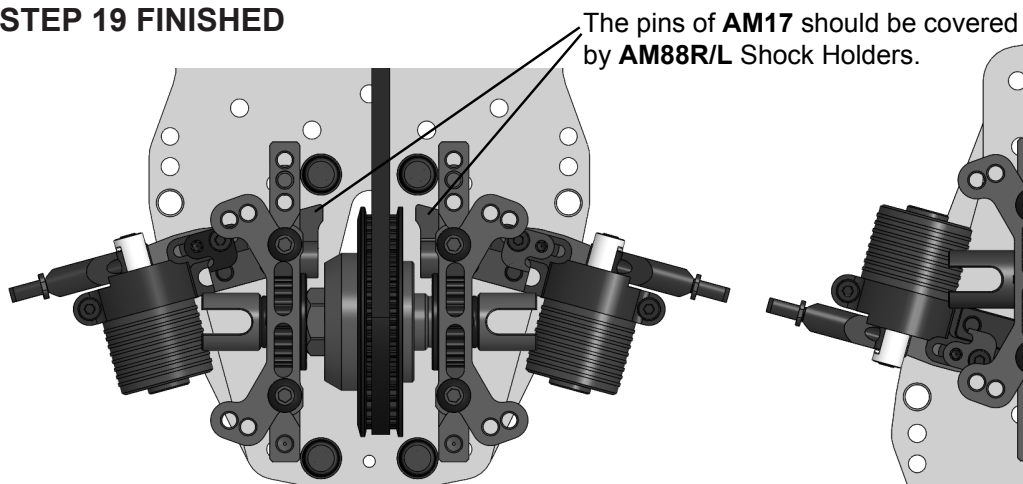
REAR

**Attention!**  
Tighten **SB3X8** screws of **AM88L/R** with 2mm ball hex driver after tightening of **SF3X10** screws.

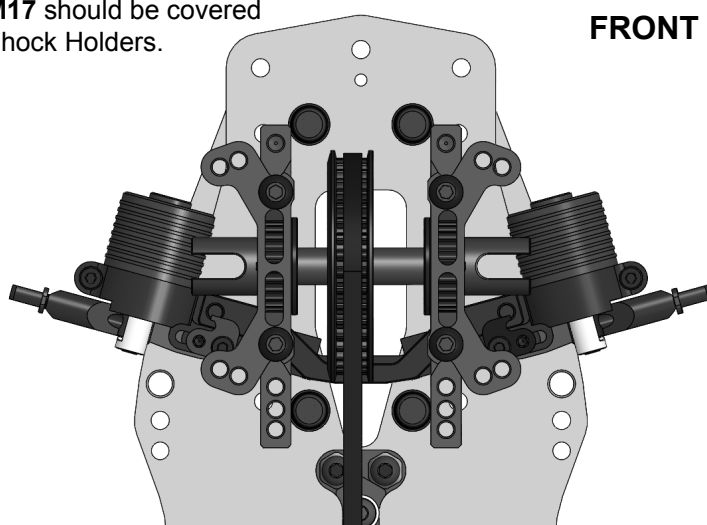


FRONT

## STEP 19 FINISHED

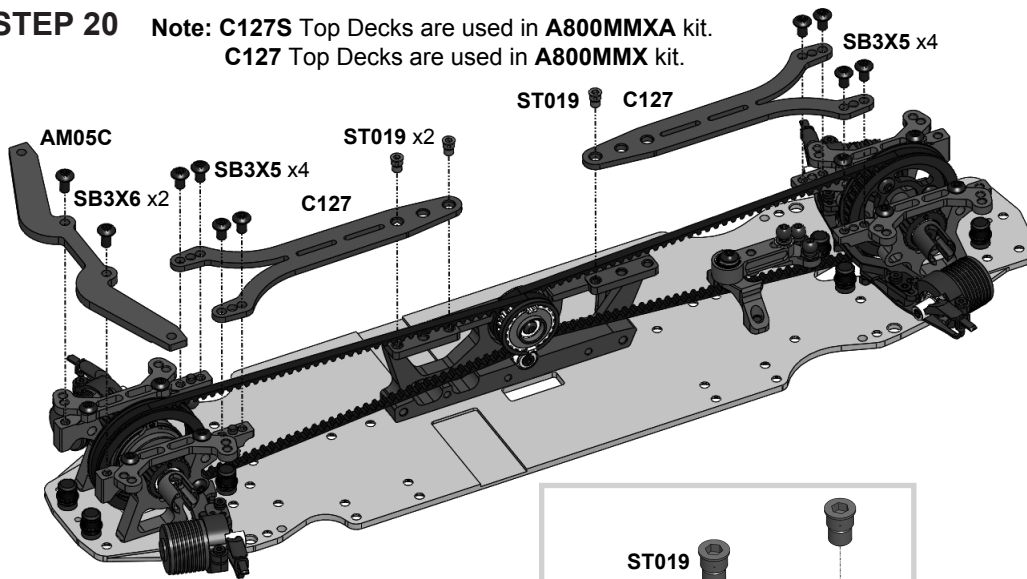


REAR

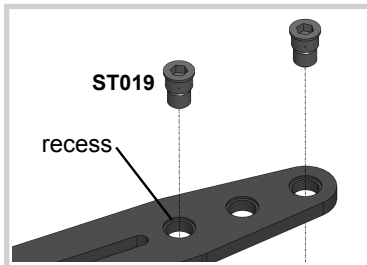


FRONT

**STEP 20** Note: **C127S** Top Decks are used in **A800MMXA** kit.  
**C127** Top Decks are used in **A800MMX** kit.



**C127** Top Deck x2  
**AM05C** Rear Holder x1



Note the orientation of recesses on the **C127/C127S** Top Decks.

- SB3X5** M3x5 Button Head Screw x8
- SB3X6** M3x6 Button Head Screw x2
- ST019** Top Deck Screw x3

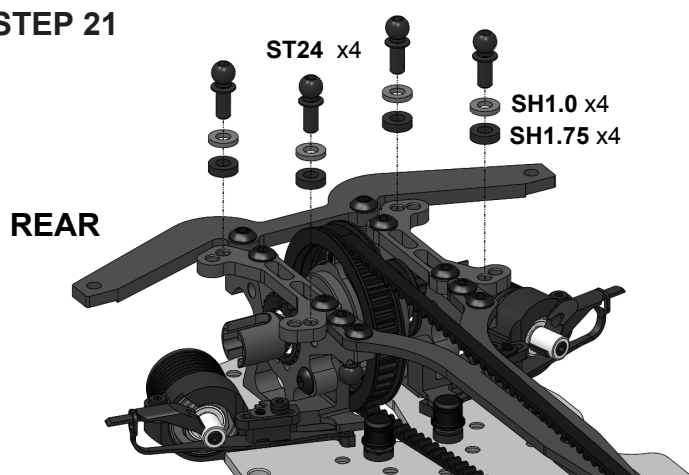
**FRONT**

**ST019** screws layout in different holes of both top decks is used for independently adjusting the torsional flex on each end of the car.

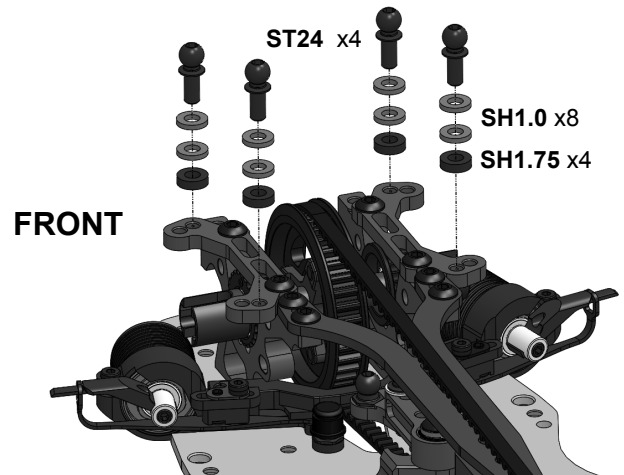
Top decks holes designation for setup sheet.

**REAR**

**STEP 21**



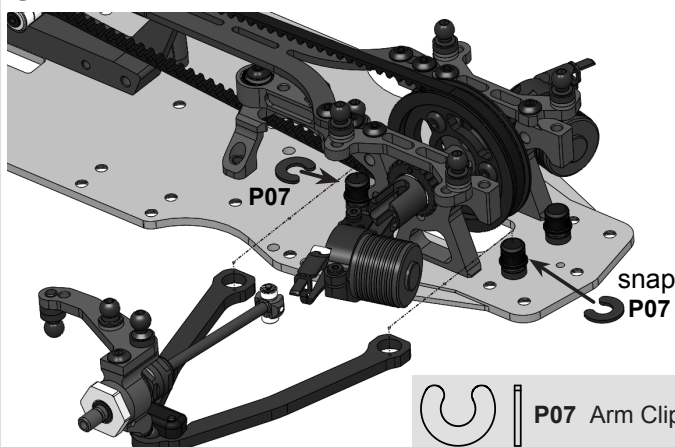
**REAR**



**FRONT**

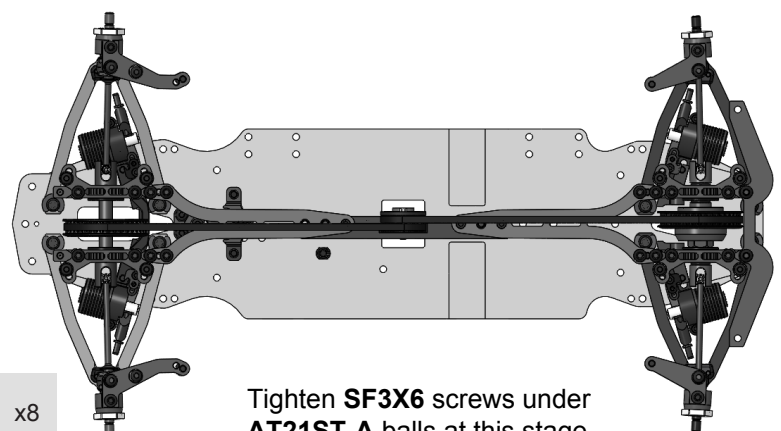
- SH1.0** 6x3x1mm Spacer (Gray) x12
- SH1.75** 6x3x1.75mm Spacer (Black) x8
- ST24** 4,8x6mm Ball Stud x8

**STEP 22**



**P07** Arm Clip x8

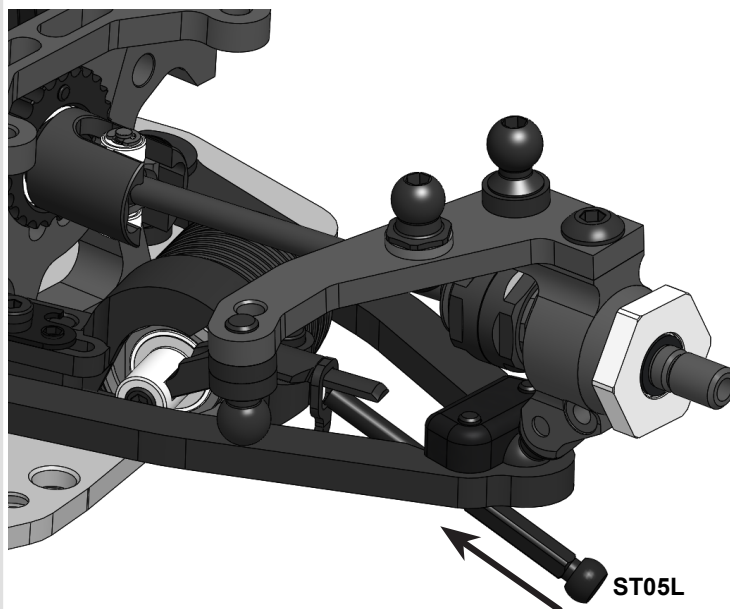
**STEP 22 FINISHED**



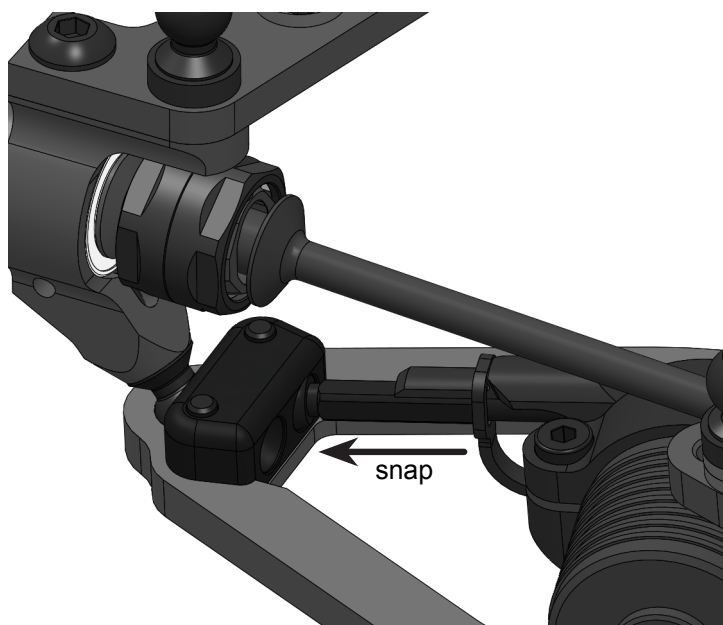
Tighten **SF3X6** screws under **AT21ST-A** balls at this stage.



## STEP 23

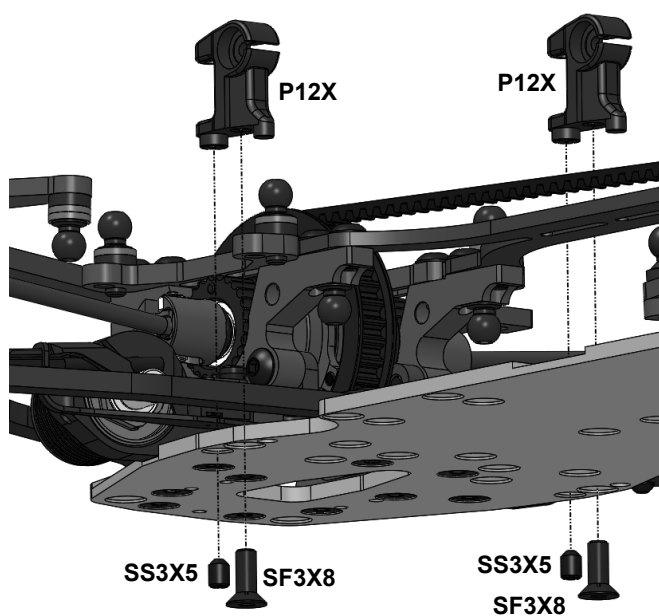
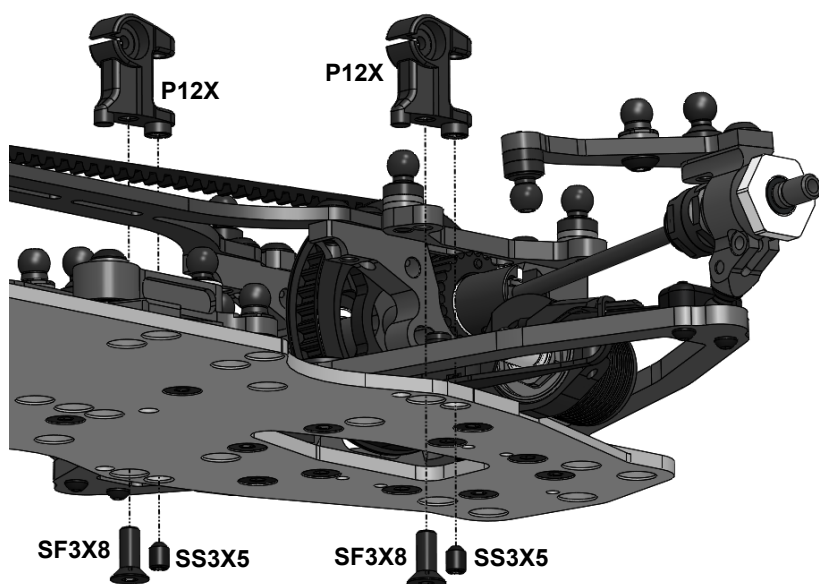


## STEP 23 FINISHED



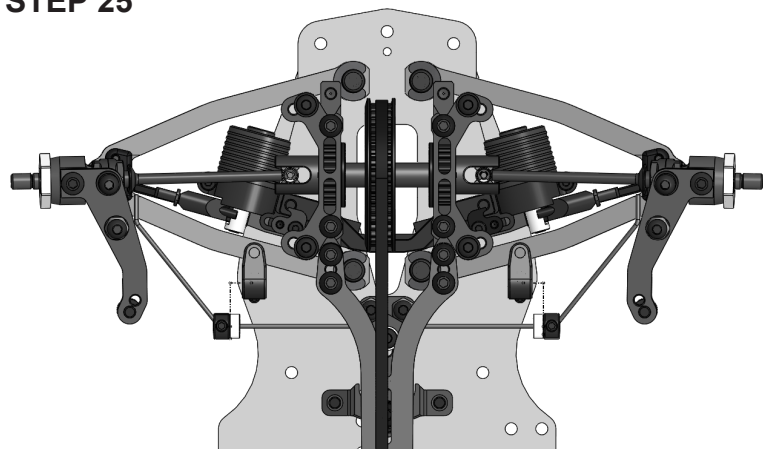
ST05L Shock Rod x4

## STEP 24



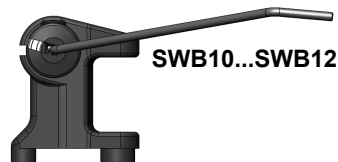
- |  |  |                            |    |
|--|--|----------------------------|----|
|  |  | SF3X8 M3x8 Flat head Screw | x4 |
|  |  | SS3X5 M3x5 Set Screw       | x4 |
|  |  | P12X Sway Bar Holder       | x4 |

## STEP 25

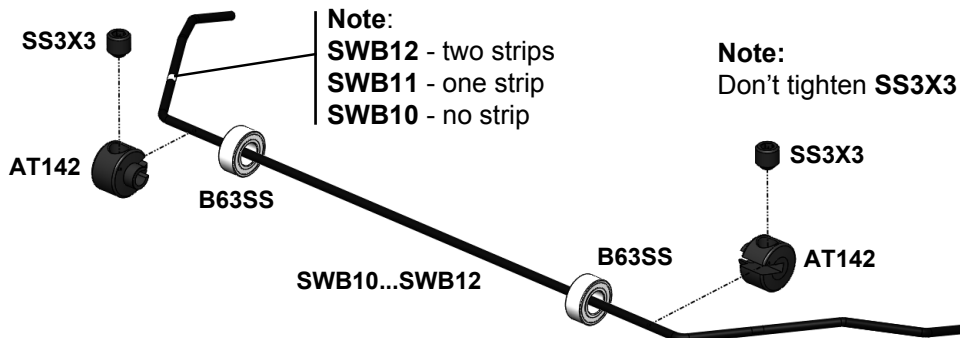
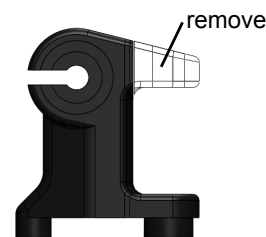


### Attention!

The deflected tips of Sway Bar should be directed downwards.



Cut upper leg of **P12X** when using high roll centers setups.

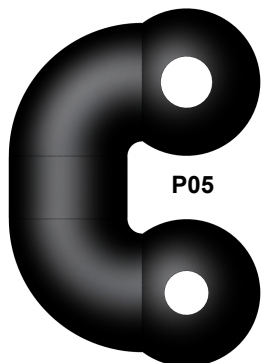


**Note:**  
**SWB12** - two strips  
**SWB11** - one strip  
**SWB10** - no strip

**Note:**  
 Don't tighten **SS3X3** Set Screws at this stage.

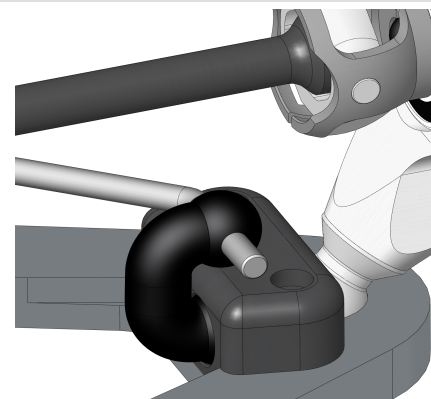
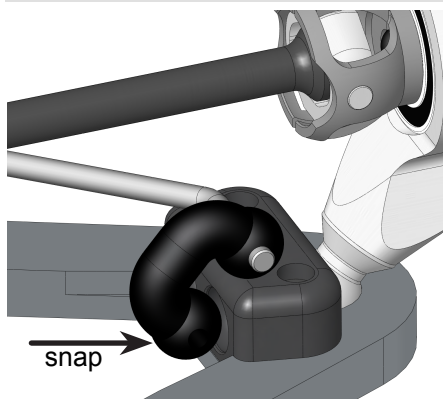
## STEP 25 (cont'd)

- |                                |                                   |
|--------------------------------|-----------------------------------|
| <b>SS3X3</b> M3x3 Set Screw x4 | <b>SWB10....SWB12</b> Sway Bar x2 |
| <b>B63SS</b> MR63ZZ Bearing x4 | <b>P05</b> Sway Bar Joint x4      |
|                                | <b>AT142</b> Sway Bar Stopper x4  |



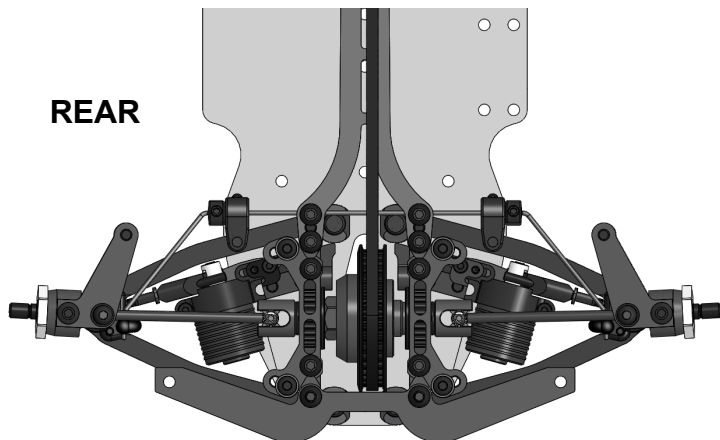
Use bigger hole for **SB12** Sway Bars.

Use smaller hole for **SB10** and **SB11** Sway Bars.

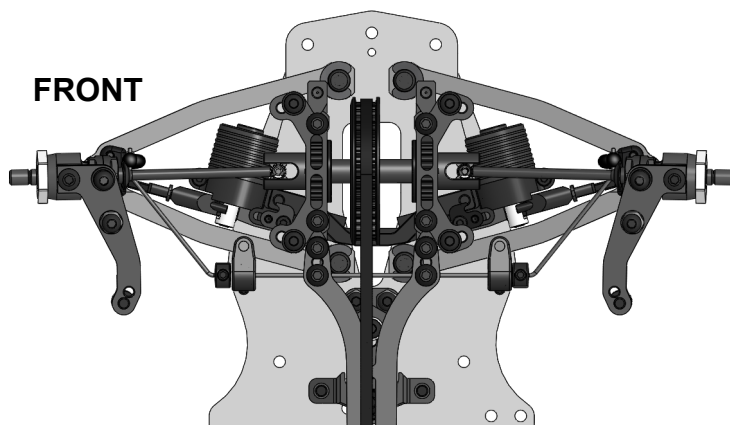


## STEP 25 FINISHED

**REAR**

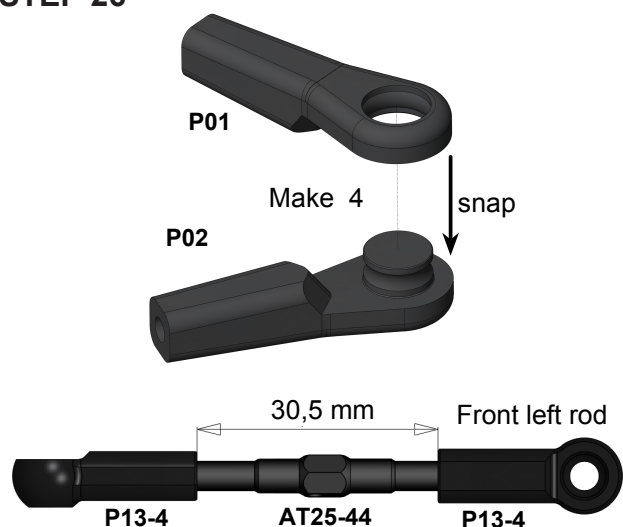


**FRONT**

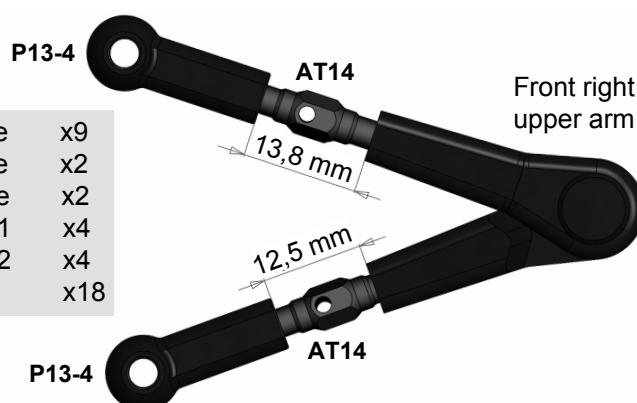
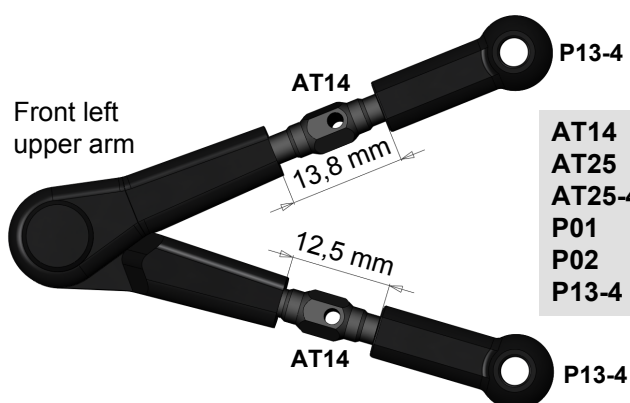
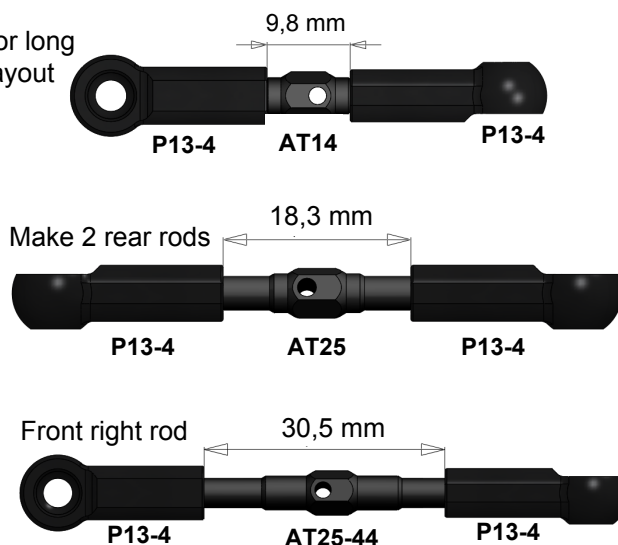


Adjust **AT142** Stoppers disposal to reach the centered position of the Sway Bars and tighten **SS3X3** Set Screws after that.

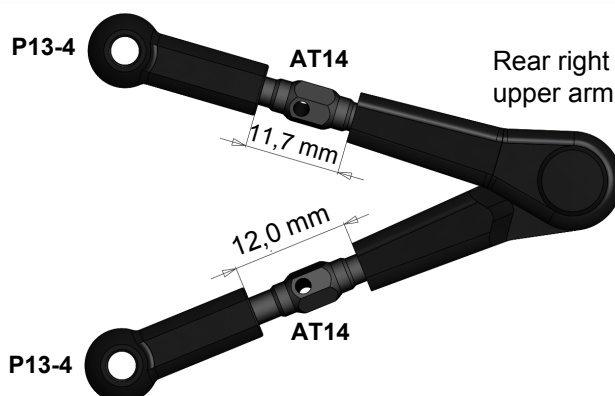
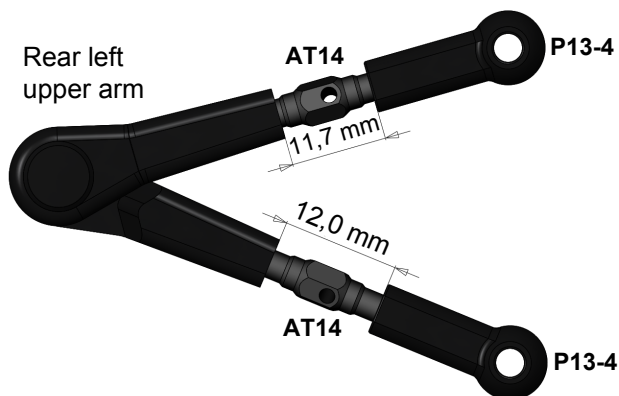
## STEP 26



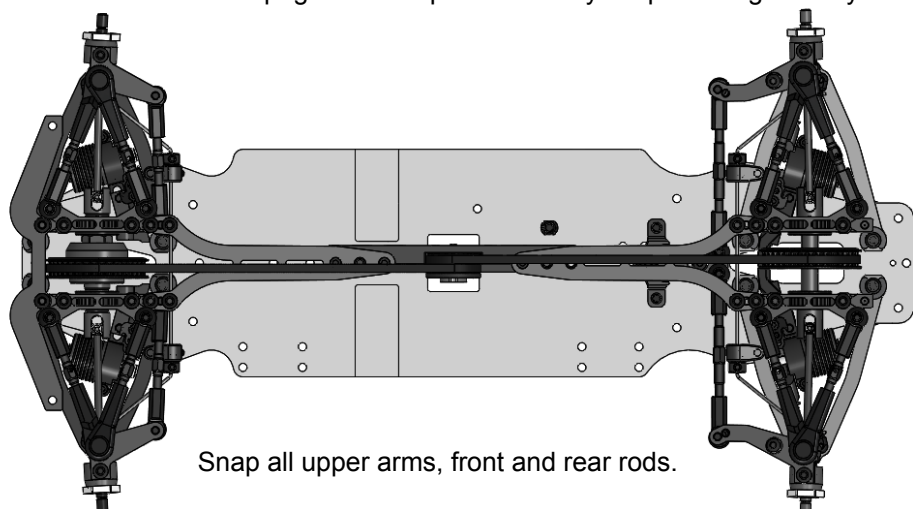
Servo rod for long servo link layout



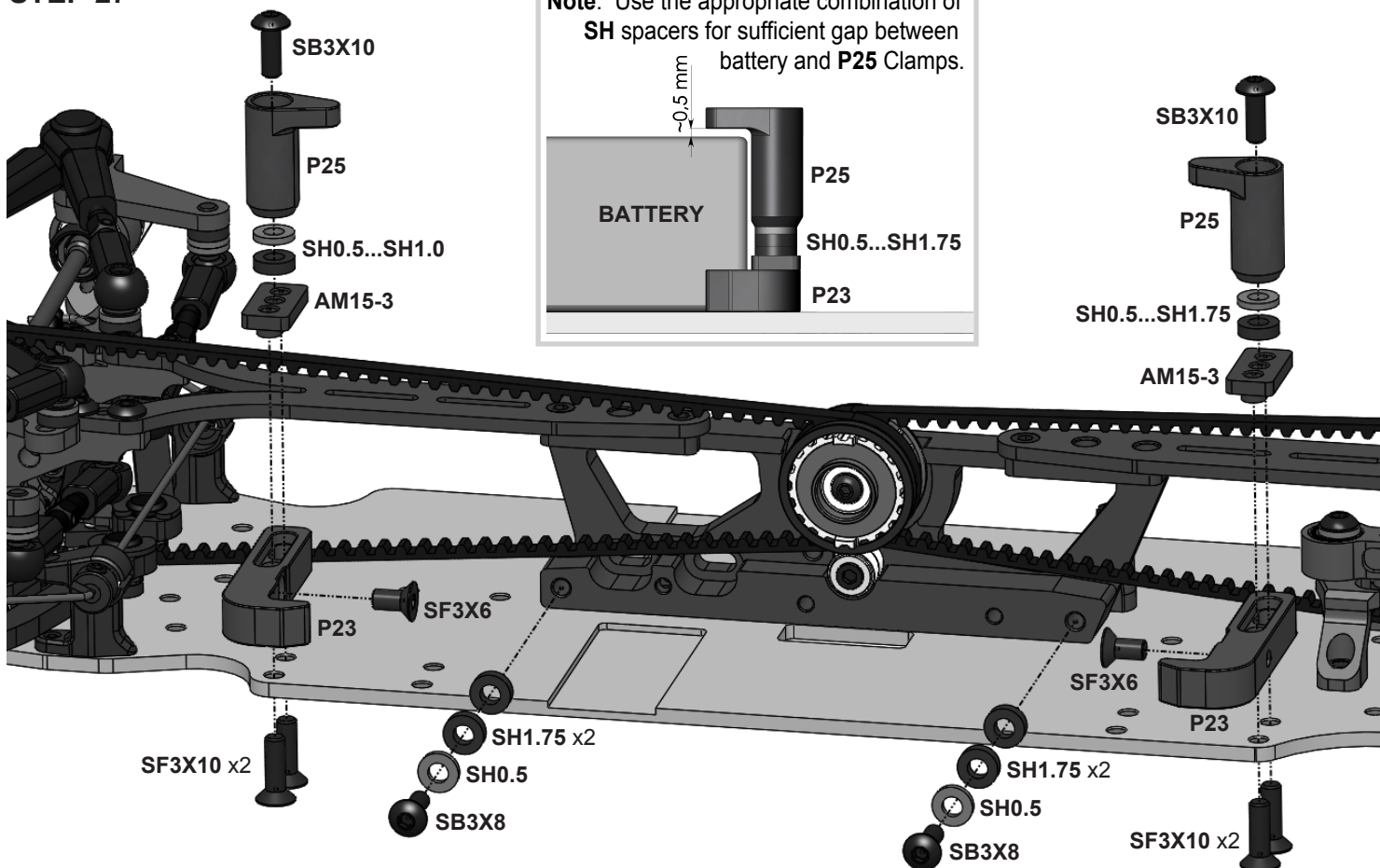
AT14	Turnbuckle	x9
AT25	Turnbuckle	x2
AT25-44	Turnbuckle	x2
P01	Ball Joint 1	x4
P02	Ball Joint 2	x4
P13-4	Ball End	x18



**Notes:** The given rods and arms sizes are approximately for 4° front caster and 0° rear caster, 2° both front and rear cambers, 3,0° rear toe-in and 1° front toe out angles. Use a setup station or angles gauge for further precise suspension geometry setting. See our recommendations on page #23 for quick and easy suspension geometry change.



## STEP 27



**Note:** Use the appropriate combination of SH spacers for sufficient gap between battery and P25 Clamps.

### Battery Holders adjustment:

Choose the desirable battery position.

Tighten up **SF3X10** screws to fix

**P23** Battery Holders.

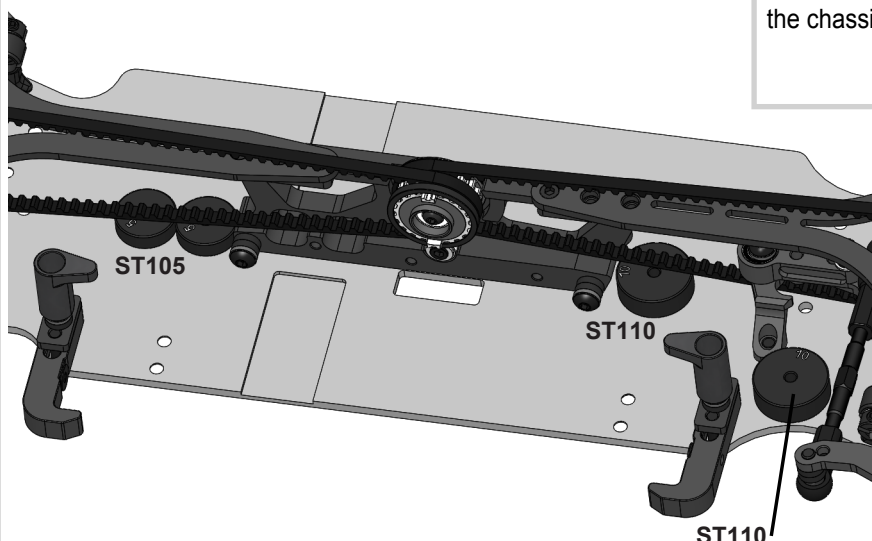
Adjust **SF3X6** screws to achieve ~0.5mm clearance between them and the battery.

	<b>SF3X10</b> M3x10 Flat Head Screw	x4	<b>P23</b> Outer Battery Holder	x2
	<b>SF3X6</b> M3x6 Flat Head Screw	x2	<b>P25</b> Battery Clamp	x2
	<b>SB3X10</b> M3x10 Button Head Screw	x2	<b>AM15-3</b> Battery Nut	x2
	<b>SB3X8</b> M3x8 Button Head Screw	x2	<b>SH0.5 SH1.0 SH1.75</b> Spacers	

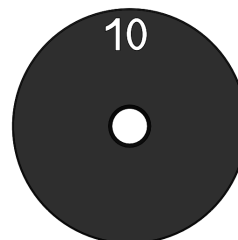
**ST110** and **ST105** Round Weights should be used for adjusting of the final weight and the weight distribution of the car.

By screwing in the **ST110** and **ST105** with chamfered side down almost all influence of the round weights to the chassis flex is removed.

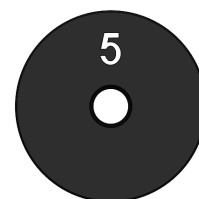
**ST110** or **ST105**



The engraved sides of **ST110** and **ST105** are flat. The opposite sides are chamfered.



**ST110 10g**  
Round Weight

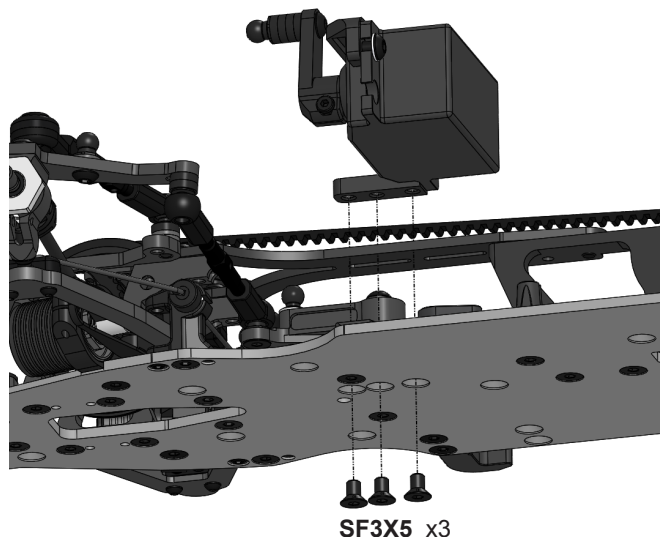
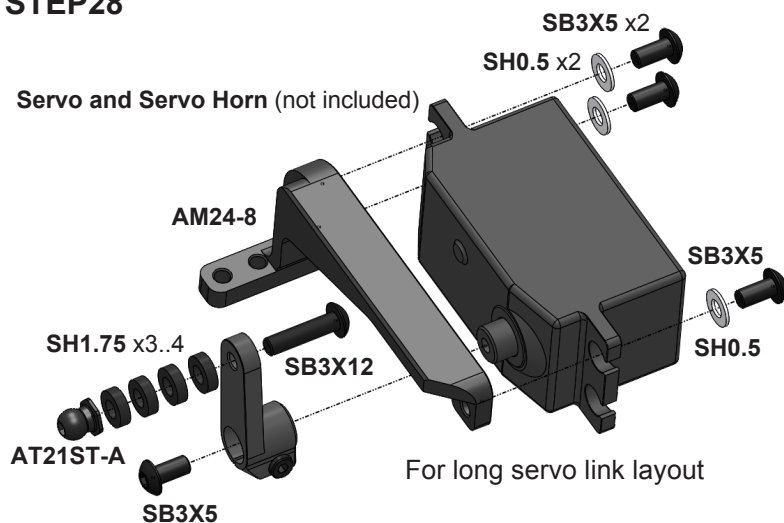


**ST105 5g**  
Round Weight



## STEP28

Servo and Servo Horn (not included)



- SB3X12** M3x12 Button Head Screw x1
- SF3X5** M3x5 Flat Head Screw x3
- SB3X5** M3x5 Button Head Screw x4
- SH0.5** 6x3x0.5mm Spacer (Silver) x3
- SH1.75** 6x3x1.75mm Spacer (Black) x4

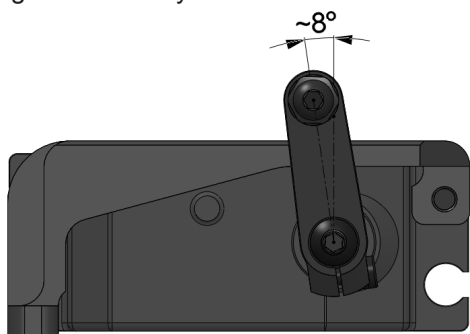
**AT21ST-A** Pivot Ball x1

**AM24-8** Servo Holder x1

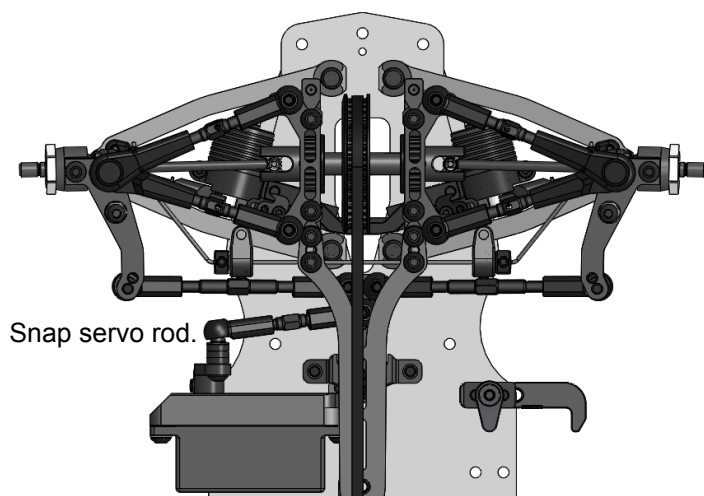


**Note:** Recommended length of the servo horn at the long servo link layout is 16,5-17,5 mm.  
Recommended length of the servo horn at the short servo link layout is ~15 mm.

**Attention!** Neutral servo arm position at long servo link layout.

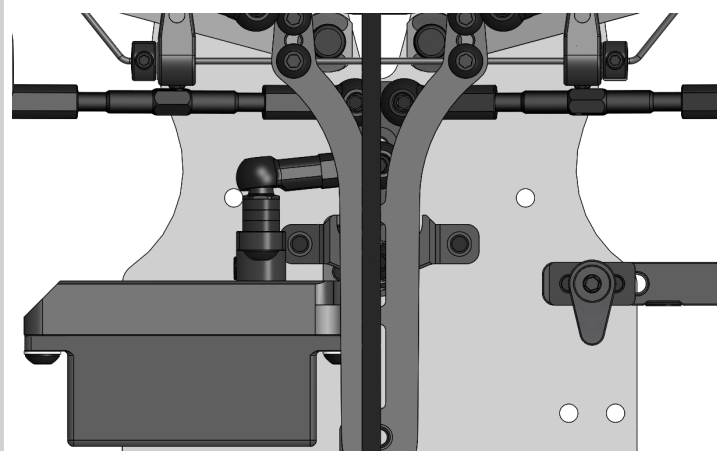
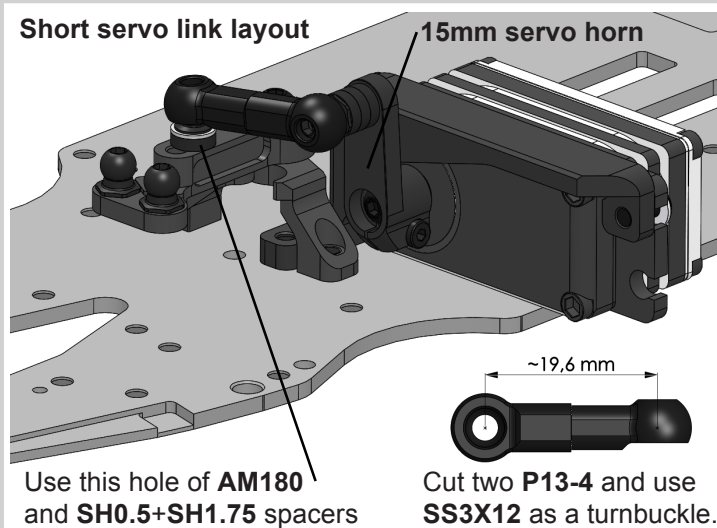


Long servo link layout

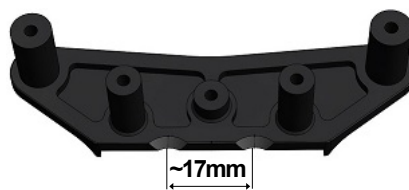
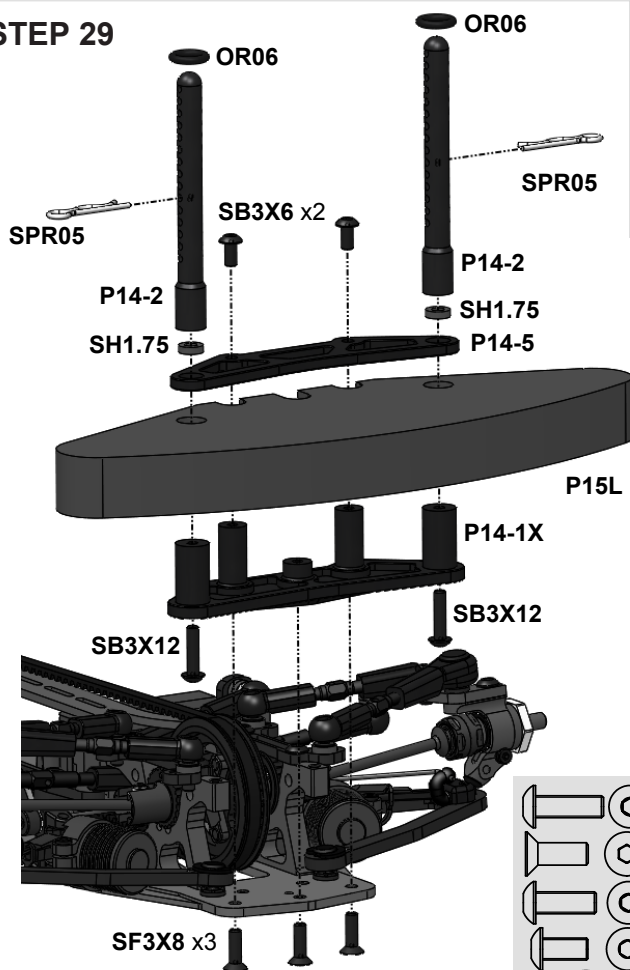


Snap servo rod.

Short servo link layout

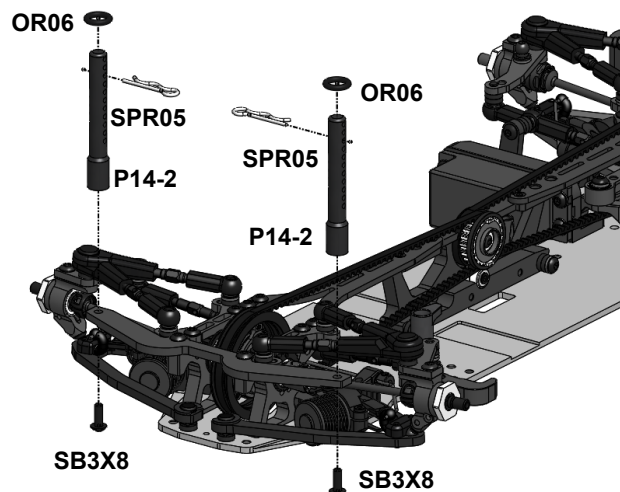


## STEP 29



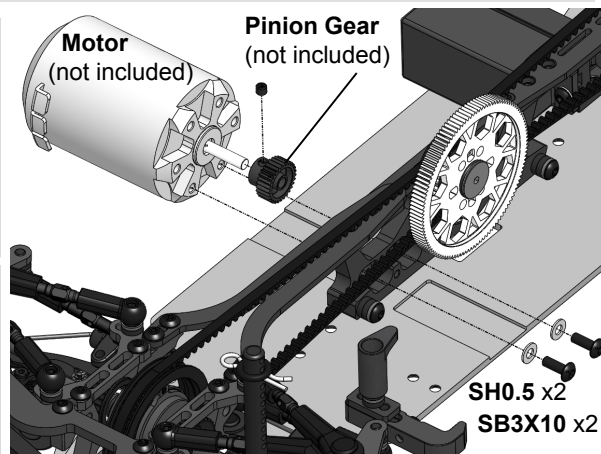
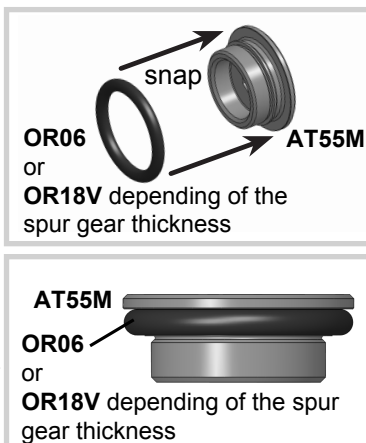
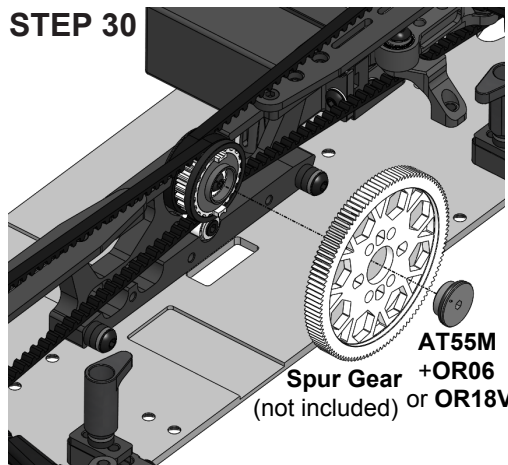
### Attention!

Make two round cutouts at the P14-1X backside to create enough clearance to the suspension arm mounts.



	SB3X12 M3x12 Button Head Screw	x2	P14-1X Lower Bumper	x1
	SF3X8 M3x8 Flat Head Screw	x3	P14-2 Body Post	x4
	SB3X8 M3x8 Button Head Screw	x2	P14-5 Upper Bumper	x1
	SB3X6 M3x6 Button Head Screw	x2	P15L Foam Bumper	x1
	OR06 5mm O-Ring	x4	SPR05 Body Clip	x4

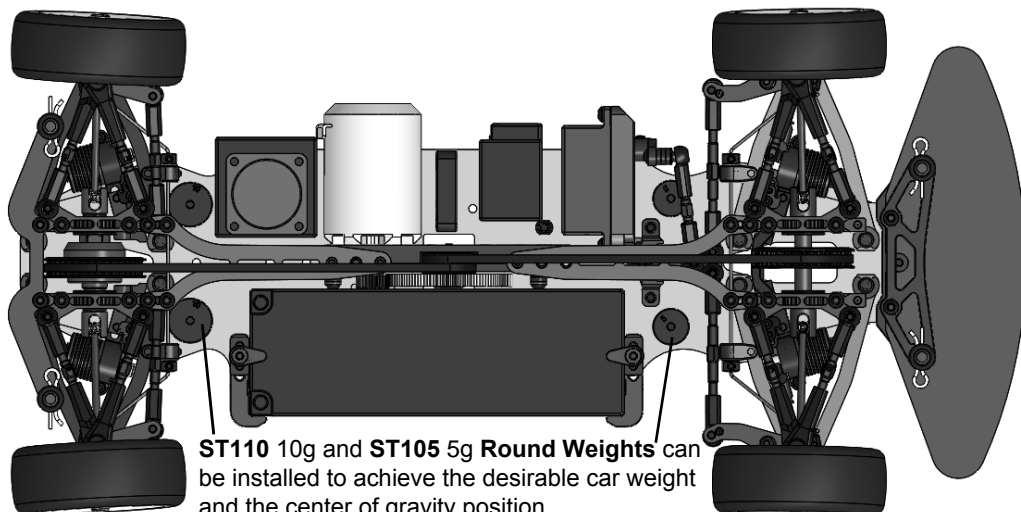
## STEP 30



## STEP 31 FINAL ASSEMBLY

### Install:

Speed controller (not included),  
Receiver (not included),  
Battery (not included)  
Wheels (not included)



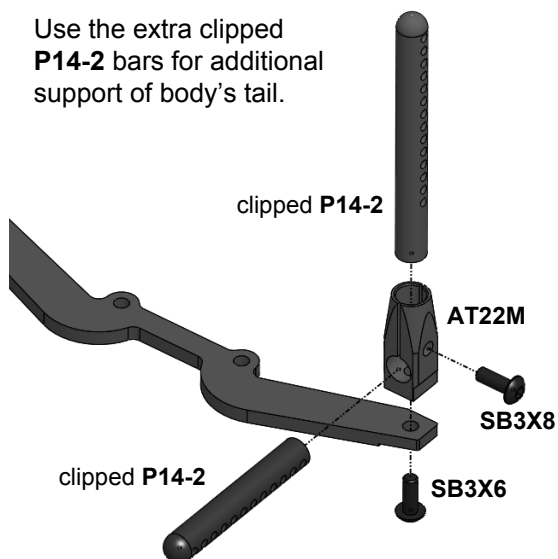
ST110 10g and ST105 5g Round Weights can be installed to achieve the desirable car weight and the center of gravity position.



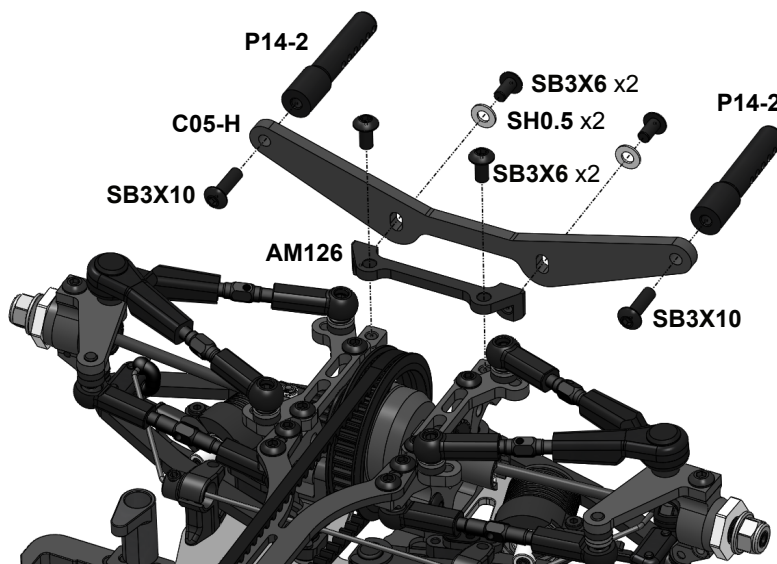
## Optional parts and sets

### AT22M Rear Body Holder

Use the extra clipped **P14-2** bars for additional support of body's tail.

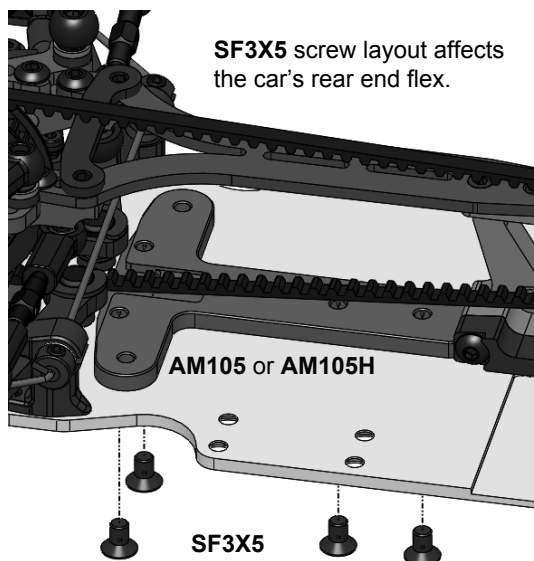


### HRB Horizontal Rear Bodypost Set

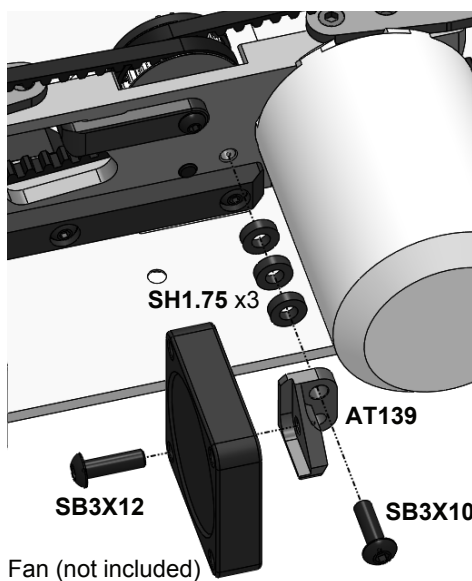


### AM105, AM105H Stiffener

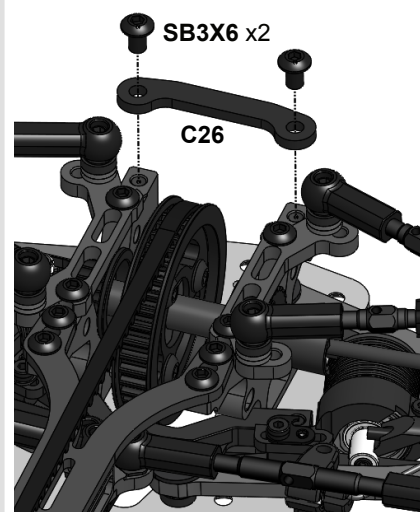
**SF3X5** screw layout affects the car's rear end flex.



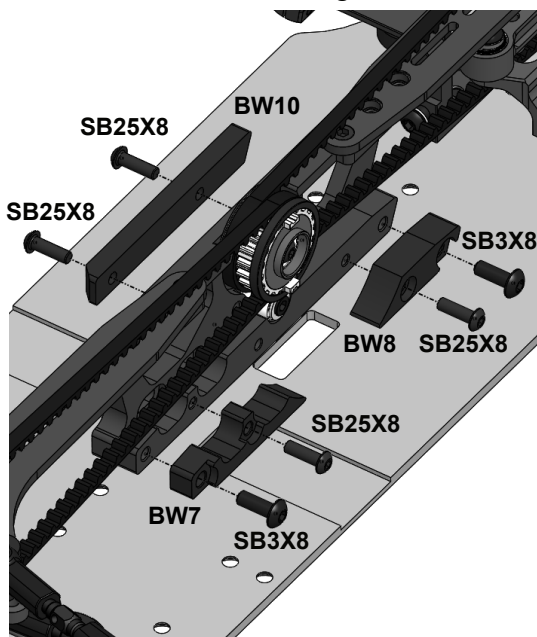
### AT139 Fan Holder



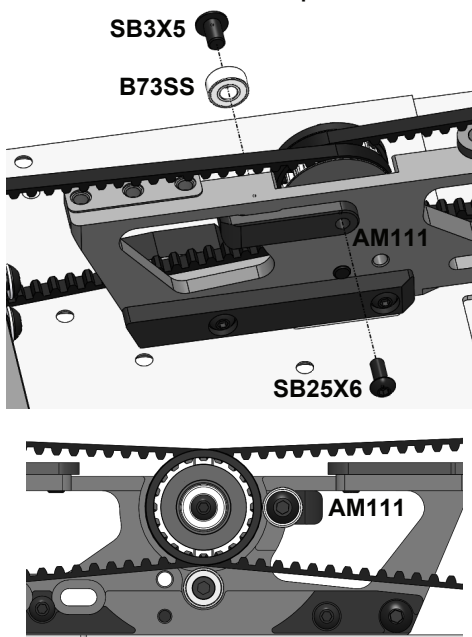
### C26 Top Stiffener



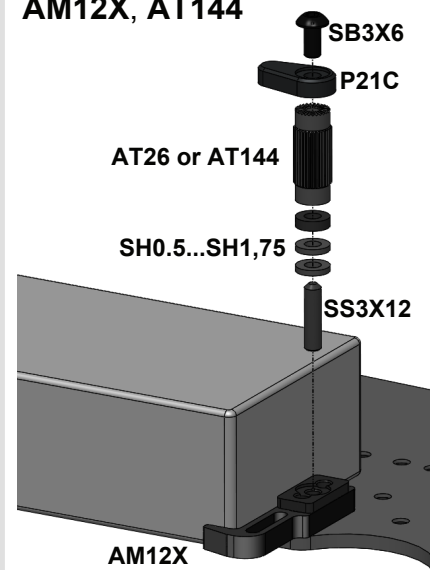
### BW7, BW8, BW10 Weights



### AM111 Belt Anti Skip

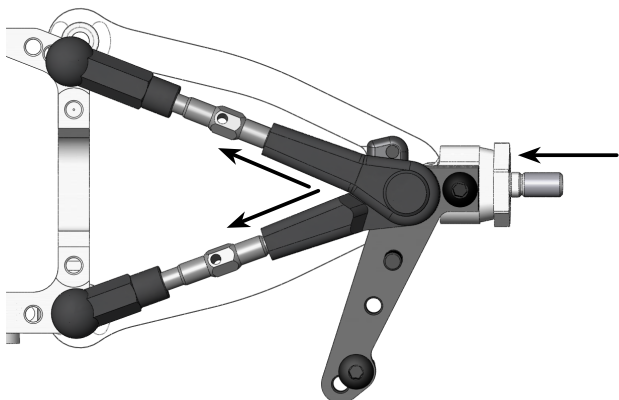


### BC1 Battery Clamp Set AM12X, AT144

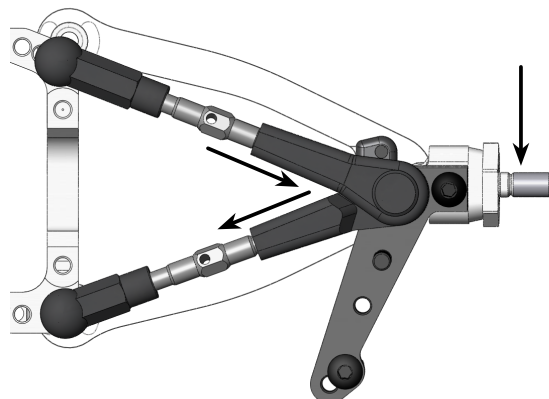


## SUSPENSION SETTING TECHNIQUE

**Camber adjustment rule:** Simultaneous both upper rods 0.5mm shortening (1/2 turn of both turnbuckles) adds 1.0° of camber angle at constant caster.

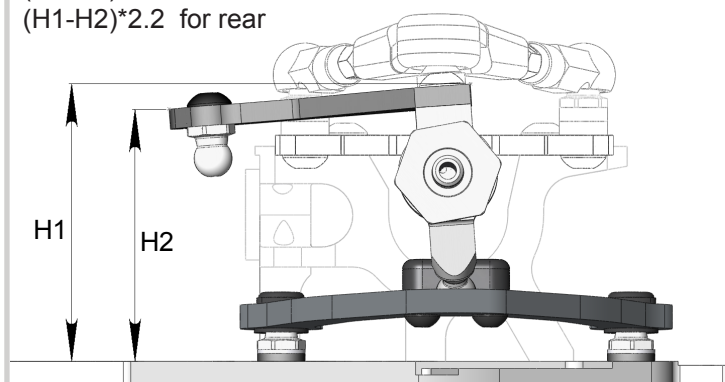


**Caster adjustment rule:** Simultaneous front upper rod 0.5mm elongation and rear upper rod 0.5mm shortening adds 2.5° of caster at constant camber.

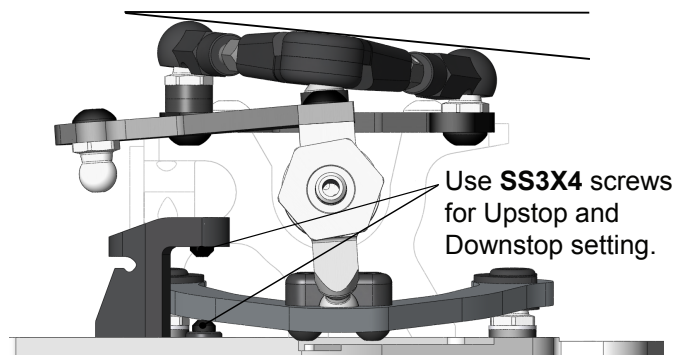


### Caster measuring:

Caster angle° =  
 $(H1-H2)*1.5$  for front  
 $(H1-H2)*2.2$  for rear

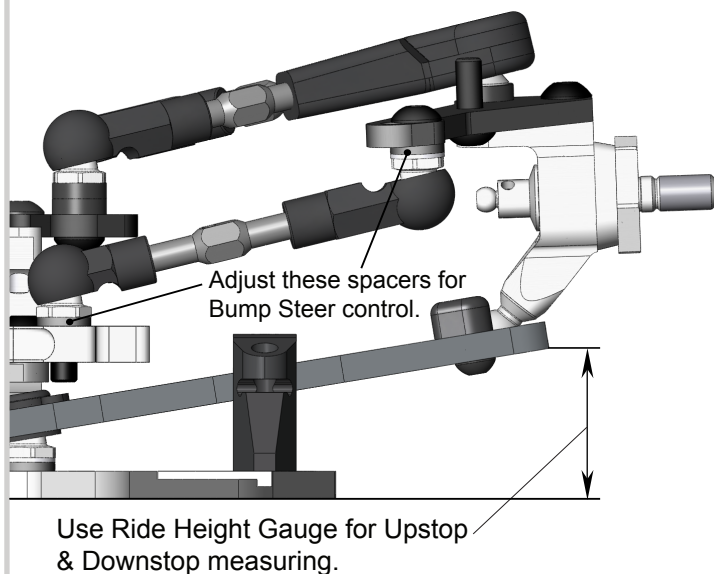


**Reactive Caster** setting is possible.



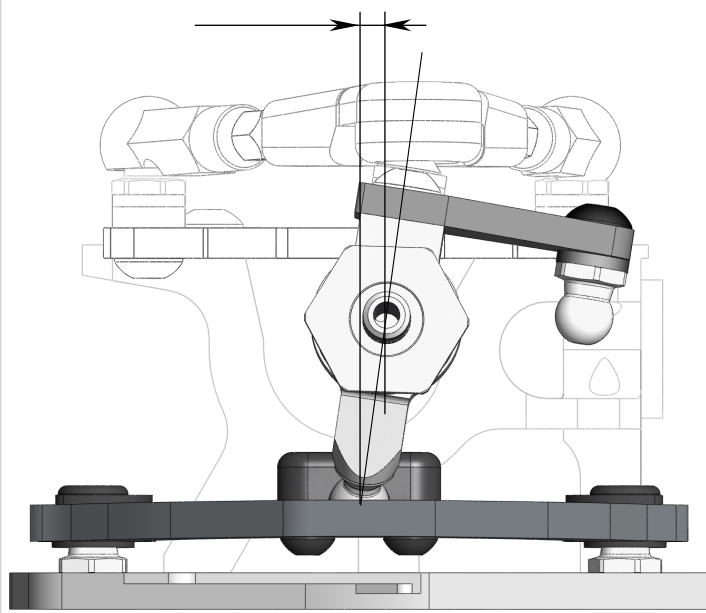
### Roll Center adjustment:

Use combinations of **SH0.5**, **SH1.0** and **SH1.75** Spacers under appropriate Pivot Balls and Ball Studs for this adjustment.



### Wheelbase adjustment:

Use rear suspension caster change for this adjustment. Adding 4°caster shortens wheelbase by 1mm.



## SHOCK SETTING TECHNIQUE

**Attention!** These Shocks allow to adjust the Damping and Spring rates without replacement of the shock's fluid and spring.

### 1. Damping and Shock Spring rate setting

Increase **A**-distance (slide Shock outward) to increase Damping and Spring rates simultaneously and concordantly to each other. **A**-distance range is 0 - 4.0mm.

Use **SF3X10** Screw to unlock Shock and to lock it at the desirable position.

Decrease **B** distance (slide **AT119** Spring Screw Holder outward) to increase Spring rate at the fixed Damping rate value.

Use **SRS** (Spring Rating Screw) to unlock **AT119** Spring Screw Holder and to lock it at the desirable position.

### 2. Shock Spring preload setting

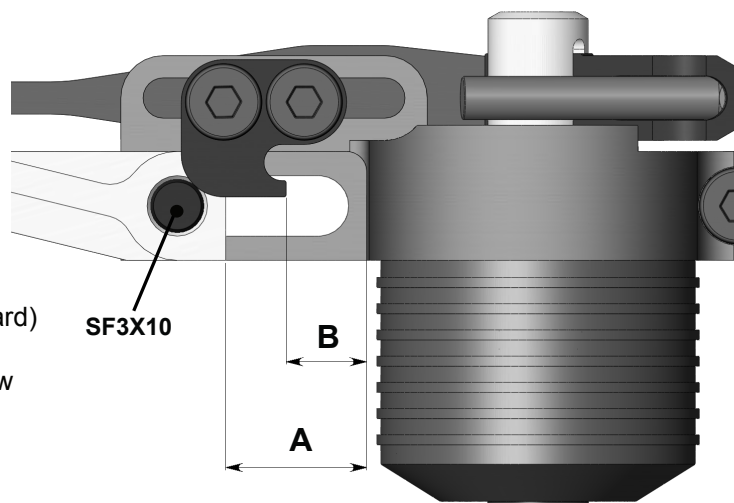
Spring preload and the ride height of the car is adjusting via **RHS** (Ride Height Screw).

**Attention!** In this kit **ST69-00** screw is used as **RHS** screw.

Turn IN (CW) **RHS** screw to increase spring preload.

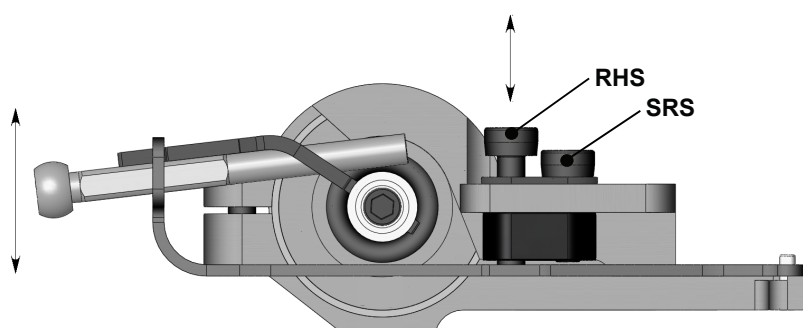
Turn OUT (CCW) **RHS** screw to decrease spring preload.

Use spring preload setting to adjust ride height value.

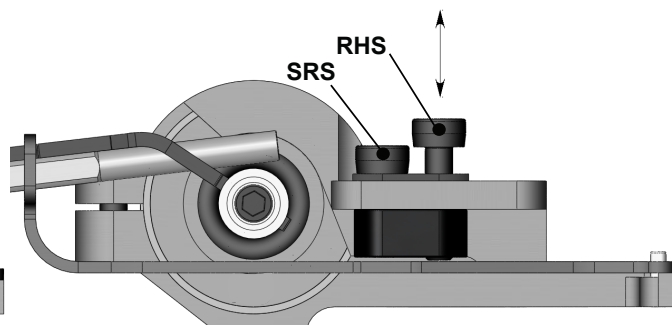


### 3. SRS/RHS Screws arrangements change

The reverse arrangement of these screws is possible also.

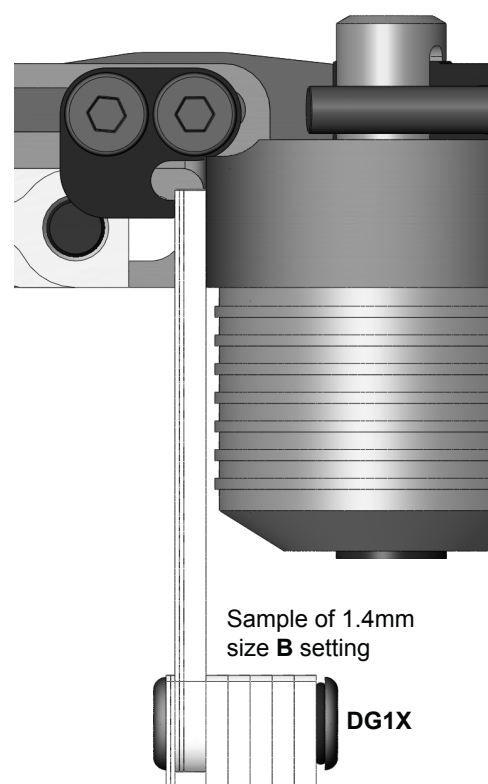
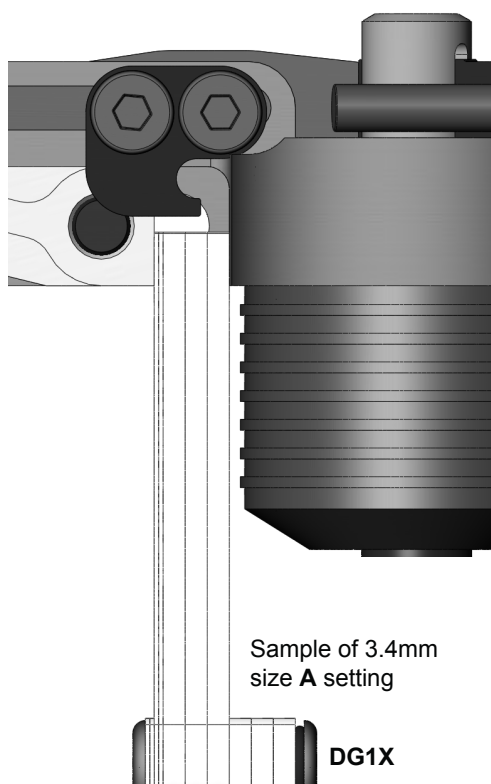
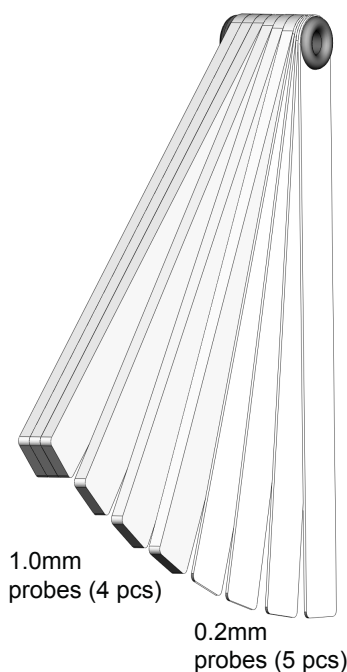


SRS/RHS Screws arrangement I



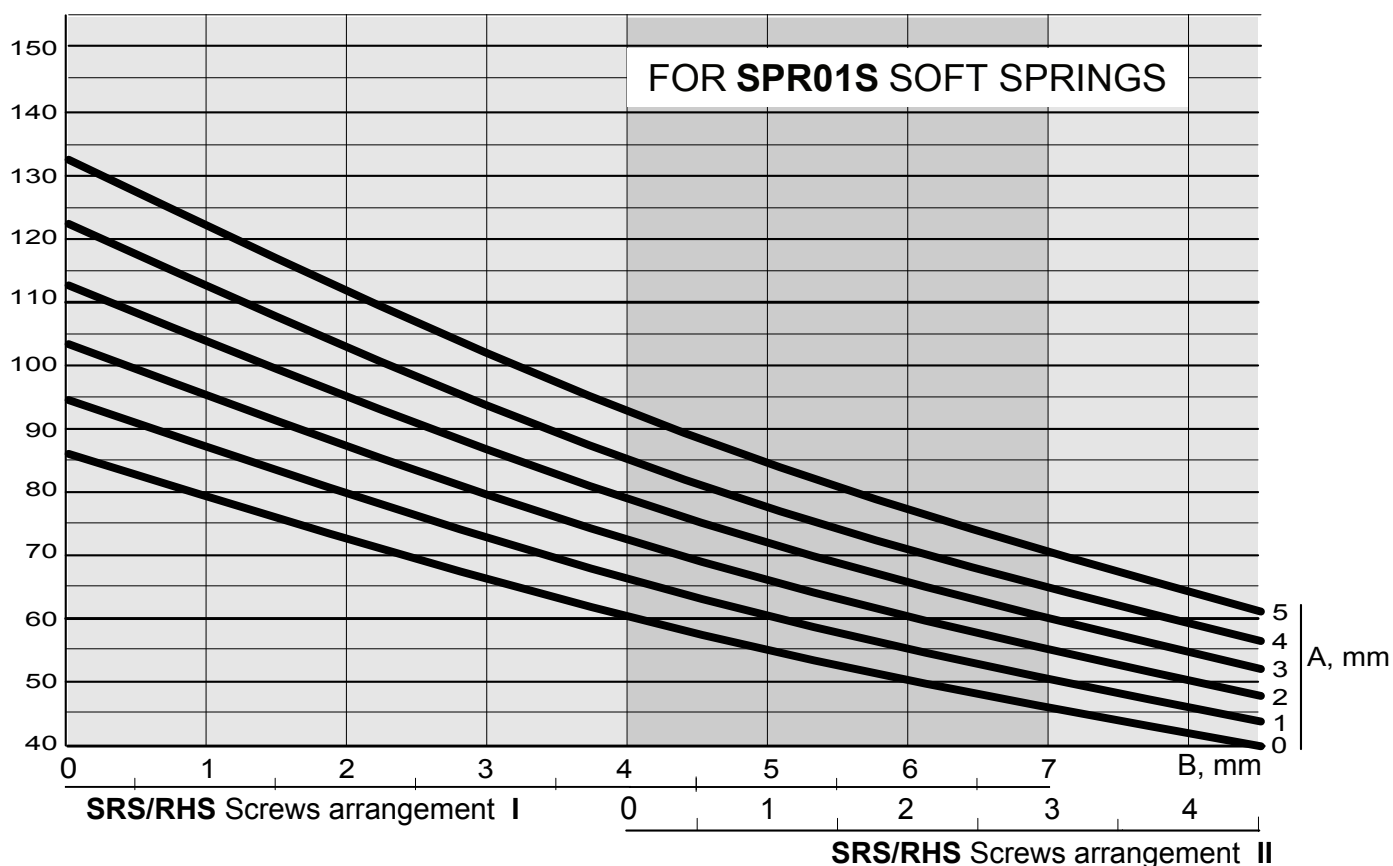
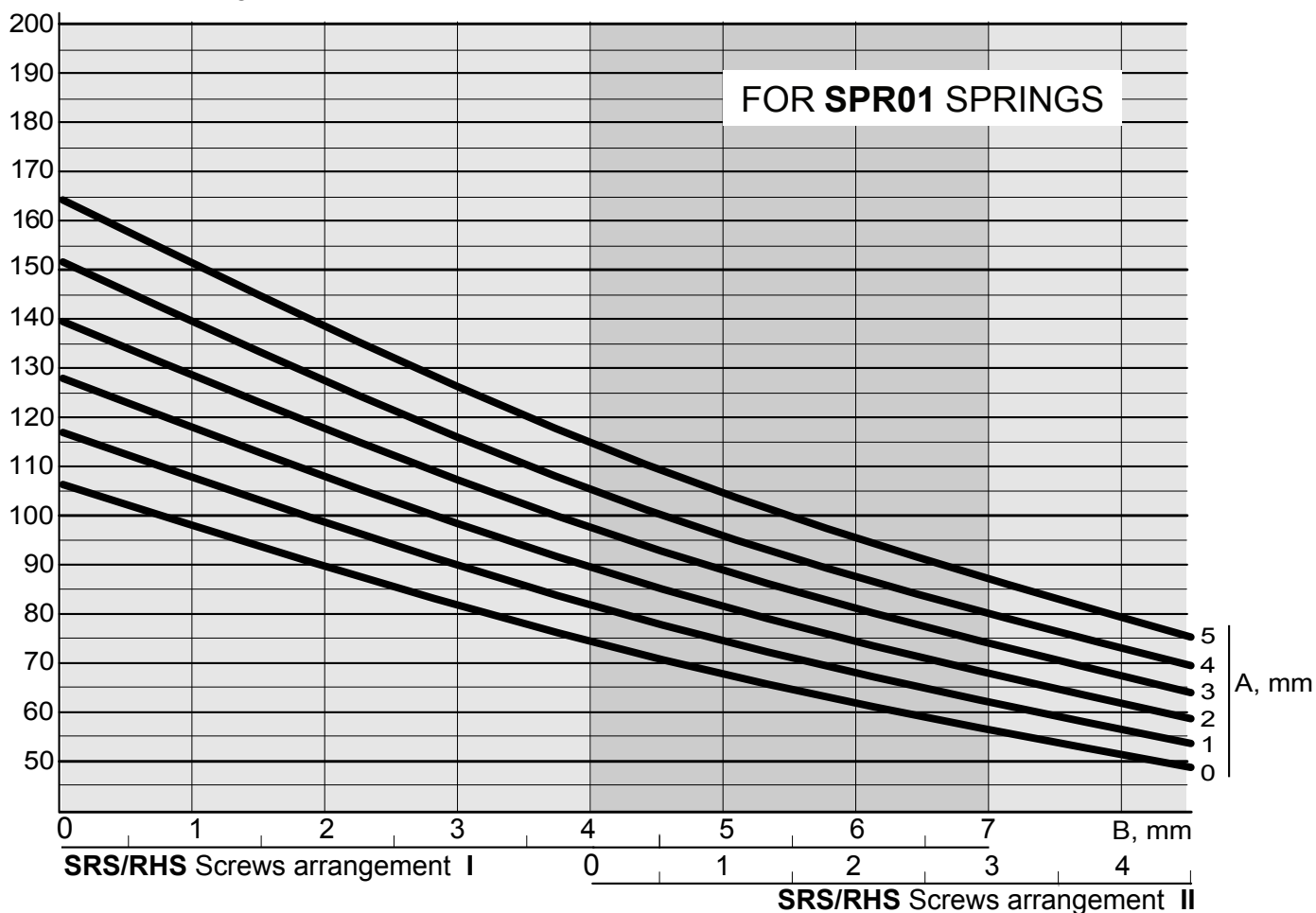
SRS/RHS Screws arrangement II

### 4. Using of DG1X Damper Gauge



# **GRAPHS OF THE SUSPENSION STIFFNESS DEPENDING ON THE POSITION OF THE DAMPER (SIZE A) AND SHOCK SCREW HOLDER (SIZE B)**

Suspension rate, gF/mm (vertical force / vertical displacement of the wheel)



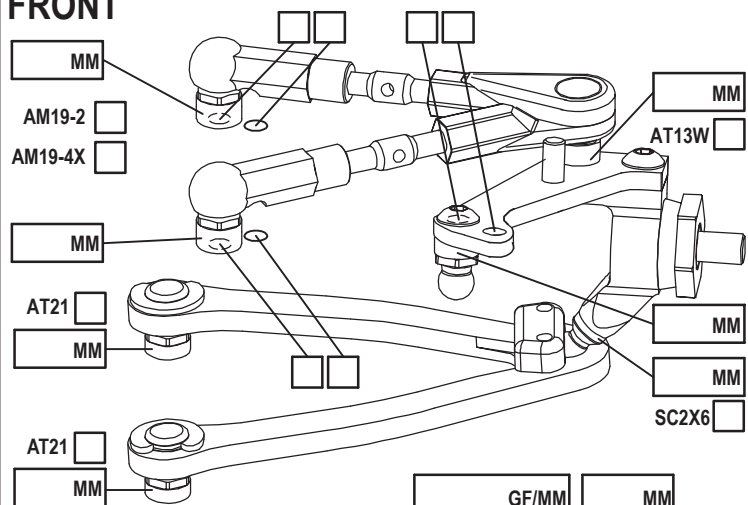




NAME \_\_\_\_\_  
 COUNTRY \_\_\_\_\_  
 RACE \_\_\_\_\_  
 TRACK \_\_\_\_\_

DATE \_\_\_\_\_ TEMP. °C AIR / TRACK \_\_\_\_\_ /  
 ASPHALT ☐ OUTDOOR ☐ INDOOR ☐ CARPET ☐  
 TRACK CONDITION TECHNICAL ☐ MIXED ☐ FAST ☐  
 TRACTION LOW ☐ MEDIUM ☐ HIGH ☐

### FRONT

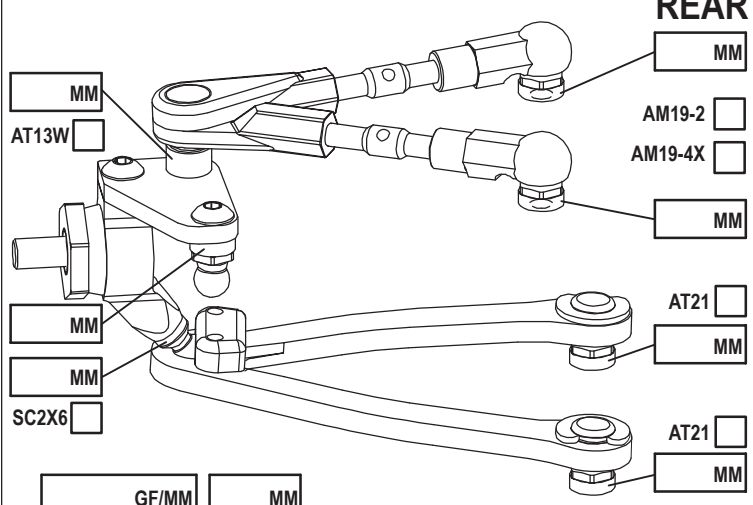


CAMBER ANGLE / ° \_\_\_\_\_  
 CASTER ANGLE / ° \_\_\_\_\_  
 TOE ANGLE / ° \_\_\_\_\_  
 RIDE HEIGHT / MM \_\_\_\_\_  
 DOWNSTOP / MM \_\_\_\_\_  
 UPWNSTOP / MM \_\_\_\_\_  
 STABILIZER Ø / MM \_\_\_\_\_  
 LOW ARM C04M1+9.0 ☐ ☐  
 STEER. ARM AM14LS ☐ ☐  
 WHEEL SPACER / MM \_\_\_\_\_  
 FRONT DRIVE SPOOL ☐ GB2B ☐ LOW ☐ HIGH ☐  
 DIFF. OIL \_\_\_\_\_ DIFF WASHERS \_\_\_\_\_  
 WHEELHUB AM06WL ☐ ☐

**SHOCKS SET**

ROTOR	STD	<input type="checkbox"/>	<input type="checkbox"/>
SPRING	STD	<input type="checkbox"/>	S <input type="checkbox"/>
DAMPER	D2.2	<input type="checkbox"/>	<input type="checkbox"/>
SRS/RHS ARR.	I	<input type="checkbox"/>	II <input type="checkbox"/>
PSS SETUP	25%	<input type="checkbox"/>	15% <input type="checkbox"/>

### REAR

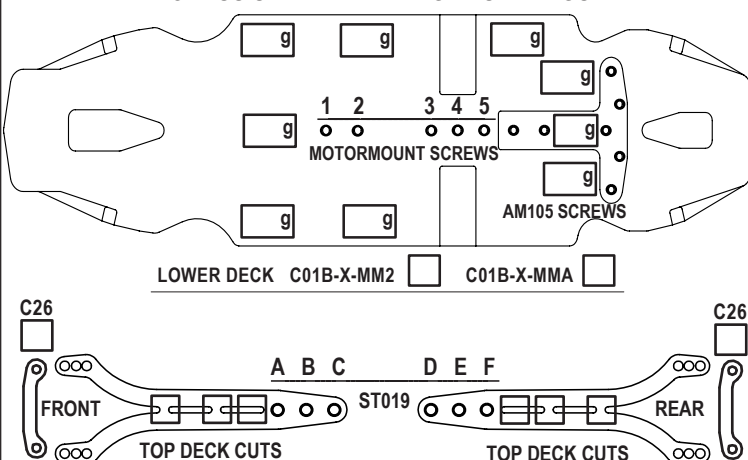


CAMBER ANGLE / ° \_\_\_\_\_  
 CASTER ANGLE / ° \_\_\_\_\_  
 TOE ANGLE / ° \_\_\_\_\_  
 RIDE HEIGHT / MM \_\_\_\_\_  
 DOWNSTOP / MM \_\_\_\_\_  
 UPWNSTOP / MM \_\_\_\_\_  
 STABILIZER Ø / MM \_\_\_\_\_  
 LOW ARM C04M1+8.0 ☐ ☐  
 STEER. ARM AM23-1 ☐ ☐  
 WHEEL SPACER / MM \_\_\_\_\_  
 REAR DRIVE GB2B ☐ LOW ☐ HIGH ☐  
 DIFF. OIL \_\_\_\_\_ DIFF WASHERS \_\_\_\_\_  
 WHEELHUB AM06WL ☐ ☐

**SHOCKS SET**

ROTOR	STD	<input type="checkbox"/>	<input type="checkbox"/>
SPRING	STD	<input type="checkbox"/>	S <input type="checkbox"/>
DAMPER	D2.2	<input type="checkbox"/>	<input type="checkbox"/>
SRS/RHS ARR.	I	<input type="checkbox"/>	II <input type="checkbox"/>
PSS SETUP	25%	<input type="checkbox"/>	15% <input type="checkbox"/>

### CHASSIS FLEX AND WEIGHT SETTINGS



FRONT TOP DECK C127 ☐ C127S ☐ REAR TOP DECK C127 ☐ C127S ☐

### TIRES

INSERTS \_\_\_\_\_  
 WHEELS \_\_\_\_\_  
 ADDITIVE \_\_\_\_\_ TIME - FR \_\_\_\_\_ RR \_\_\_\_\_  
 TOTAL WEIGHT \_\_\_\_\_ WEIGHT DISTRIBUTION F % R %  
 NOTES: \_\_\_\_\_

MOTOR LATERAL SHIFT / MM	ACKERMANN SHIMS / MM
MOTOR	SERVO
SPUR PINION RATIO	STEER TRAVEL IN OUT
BODY	BATTERY
WING	RECEIVER
ESC	RADIO
ESC SETTING	
BEST LAPTIME	QUALIF./FINAL POSITION /

COMMENTS:

Editable setup sheet can be downloaded from: <http://site.petitrc.com/reglages/awesomatix/SetupSheetsAwesomatixA800.html>



## Standard Spare Parts

Parts#	Description
AM05C	Rear Holder
AM06WL	Steering Block
AM08-3	Shocks Holder
AM14LS	Steering Arm
AM15-3	Battery Nut
AM17XL	Damper Holder L
AM17XR	Damper Holder R
AM19-FX	Upper Arm Holder
AM23-1	Rear Steering Arm
AM24-8	Central Servo Holder
AM78X1	Bulkhead
AM88R	Shock Holder R
AM88L	Shock Holder L
AM152	SB Stand
AM177	Motor Mount
AM180	SB Bellcrank
AT03BX	Spool Axle
AT13	Wheel Hex
AT14	Turnbuckle
AT21ST-A	Pivot Ball Steel
AT25-2	Turnbuckle Long
AT25-44	Turnbuckle 44mm
AT40-1	Damper Cup
AT41-2	Damper Vane
AT42-1	Damper Case
AT55M	Spur Nut
AT119	Spring Screw Holder
AT120XB	20T Alloy Pulley
AT123B	GD2B Case1
AT124B	GD2B Case2
AT142	Sway Bar Stopper
ST01	Front Axle
ST02	Rear Axle
ST03	Ball Stud
ST05L	Shock Rod
ST113	IFJ Universal Bone
ST114	IRJ Universal Bone
ST116	IFJ/IRJ Cross
ST16	U-Joint Cross
ST17-1	Universal Ring
ST019	Top Deck Screw
ST23X	IRJ Outdrive
ST24	4,8x6mm Ball Stud
ST31-1	GD2 Output Axle
ST37X	IFJ Outdrive
ST38	Universal Nut
ST59	LS2 Long Screw
ST69-00	Linear Spring Screw
ST105	5g Round Weight
ST110	10g Round Weight
ST118	SB Bellcrank Axle
G07	GD2 Satellite Gear
G08	GD2 Bevel Gear
P01	Ball Joint-1
P02	Ball Joint-2
P03	Arm Ball Cap
P04	Arm Hasp
P05	Sway Bar Joint
P07	Arm Clip
P12X	Sway Bar Holder
P13-4	Ball End
P14X	Bumper Set

Parts#	Description
P15L	Lightweight Foam Bumper
P16	Lock Ring
P23	Outer Battery Holder
P25	Battery Clamp
P39	GD2 Cross Pin
P46R	Diff Piston
P56	Antenna Holder
P58	Belt Tensioner
P63	Damper Piston
P110	Bearing Housing
P138	38T Pulley
P138S	Spool 38T Pulley
C01B-X-MM2	Lower Deck Carbon
C01B-X-MMA	Lower Deck Alloy
C04M1+8.0	Suspension Arm
C04M1+9.0	Suspension Arm
C127	Top Deck
C127S	Top Deck
SWB10	Sway Bar 1.0mm
SWB11	Sway Bar 1.1mm
SWB12	Sway Bar 1.2mm
SPR01	Shock Spring
SPR02X	Shock Rod Guide
SPR03	Shock Pointer
SPR05	Body Clip
SPR07	E-Ring
SH0.5	6x3x0.5mm Spacer (Silver)
SH1.0	6x3x1.0mm Spacer (Gray)
SH1.75	6x3x1.75mm Spacer (Black)
SH0.1	6x8x0.1mm Shim
WA02	3x5x0.2 Washer
WA03	5x15x0.3 Washer
PIN01	1.5x7.8 Pin
PIN02	1.5x5.8 Pin
OR13V	1x13 mm O-ring
OR05V	GD O-Ring
OR06	5.5mm O-ring
OR155V	Damper Output O-Ring
OR18V	1x8mm Damper O-ring
B106RS	B106RS Ball Bearing
B85	B85 Ball Bearing
B84RS	B84RS Ball Bearing
B63SS	B63ZZ Ball Bearing
B73RS	B73RS Ball Bearing
B415	B415ZZ Ball Bearing
SRS	Spring Rating Screw
SC2X4	M2x4 Cap Head Screw
SC2X6	M2x6 Cap Head Screw
SB2.5X8	M2.5x8 Button Head Screw
SS3X3	M3x3 Set Screw
SS3X5	M3x5 Set Screw
SB3X5AL	M3x5 Alloy Screw
SB3X5	M3x5 Button Head Screw
SB3X6	M3x6 Button Head Screw
SB3X8	M3x8 Button Head Screw
SB3X10	M3x10 Button Head Screw
SB3X12	M3x12 Button Head Screw
SF3X5	M3x5 Flat Head Screw
SF3X6	M3x6 Flat Head Screw
SF3X8	M3x8 Flat Head Screw
SF3X10	M3x10 Flat Head Screw
BEL351B	Belt 351mm Bando
DG1X	Damper Gauge Set
STS-A800MMX	A800MMX Stickers Sheet

## Optional Parts

Parts#	Description
C04M1+1.5	Suspension Arm Long
C04AL1+0.5	Alloy Suspension Arm
C04AL1+1.5	Alloy Suspension Arm
C04AL+8.0	Alloy Suspension Arm
C04AL+9.0	Alloy Suspension Arm
C05-H	HRB Post Holder
C07A	Carbon bumper
C25	Steering Stiffener
C26	Top Stiffener
ST17	Universal Ring
ST24M	4,8x8mm Ball Stud
ST24L	4,8x10mm Ball Stud
ST69-15	Progressive Spring Screw
ST69-25	Progressive Spring Screw
ST121	Damper Screw
AT06	Alloy Antenna Holder
AT13W	Wheel Hex Wide
AT15	Bearing Spacer
AT18	BSSX Steering Limiter
AT21	Pivot Ball
AT22M	Rear Body Holder
AT40-M8	Damper Cup
AT78	Damper Piston
AT139	Fan Holder
AT144	ULCG Battery Clamp
AT158	Damper Wrench
AM06M	Steering Block
AM12X	Alloy Battery Holder
AM14A	Steering Arm
AM19-4X	Upper Arm Holder
AM19-2	Upper Arm Holder
AM24-20	Servo Holder
AM87	Bumper Brace
AM105	Rear Stiffener 10g
AM105H	Rear Stiffener 30g
AM111	Belt Anti Skip
AM126	HRB Mount
BW7	Weight 7g
BW8	Weight 8g
BW10L	Weight 10g
BW22	Battery Holder 22g
BW52	Battery Holder 52g
DT10-2-1	Bearing Housing
DT10-3	Bearing Housing
OR152S	U-Ring
OR155	Damper O-Ring
P20	Front Universal Ring
P40F	Servo Arm (Futaba)
P40K	Servo Arm (KO)
P45L	Sponge Piston
P138LF	38T Pulley Low Friction
P138LFS	Spool 38T Pulley Low Friction
SH3X5X0.1	3x5x0.1mm Shim
SH3X5X0.5	3x5x0.5mm Shim
SH0.25	6x3x0.25mm Spacer
SPR01S	Shock Spring Soft
SPR08	Body Support Set
SS3X4	M3x4 Set Screw
SS3X12	M3x12 Set Screw
SWB13	Sway Bar 1.3mm
T01	5.5/4 mm Wrench
D2.2-S-P	Damper
FCB	Flexible Caster Block Set
BC1	Battery Clamp Set
ABS	Adjustable Body Shift Set
LS2	Linear Steering Set
BSSX	Bellcrank Steering Set
HRB	Horizontal Rear Bodypost Set



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