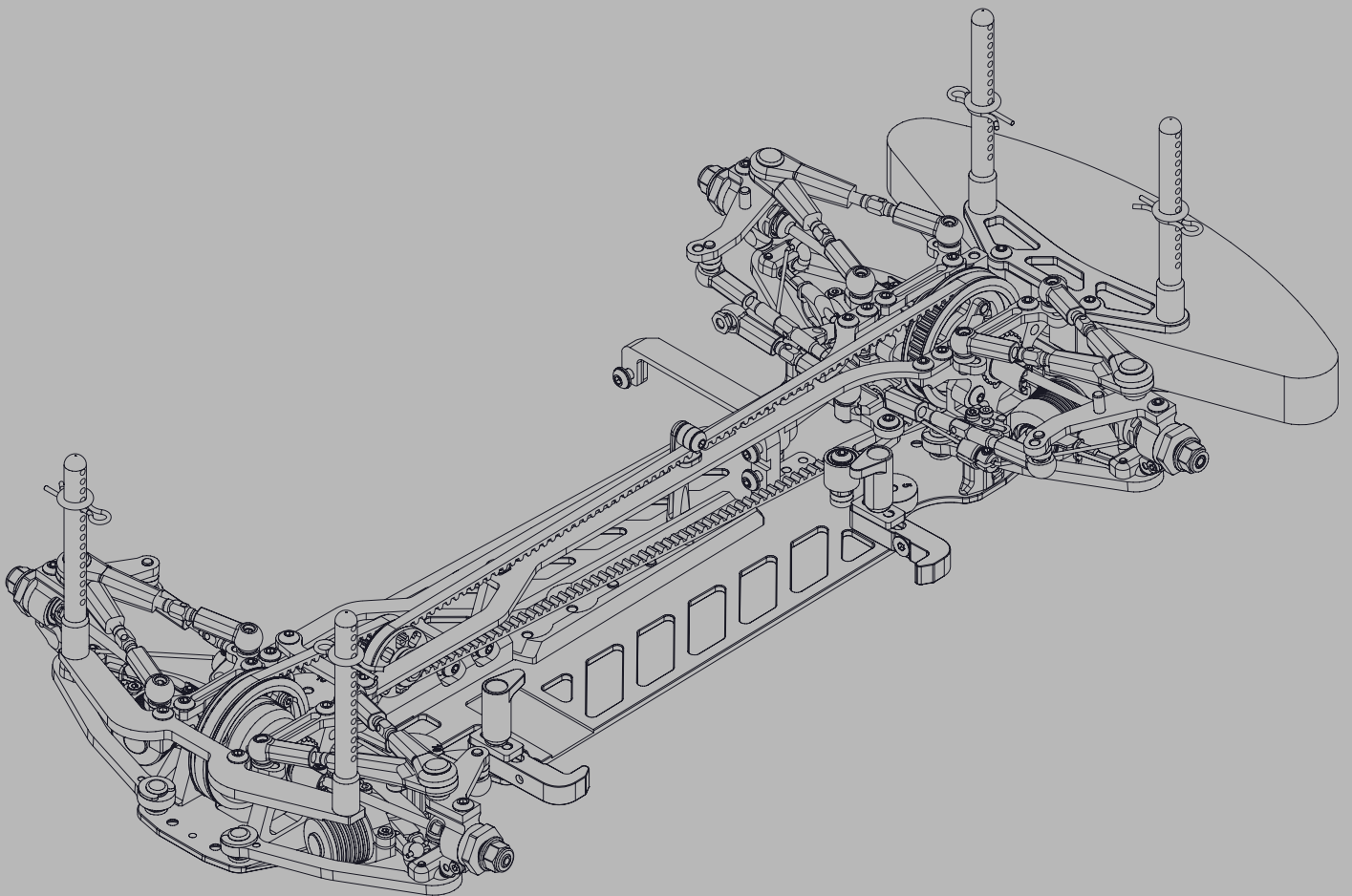


# **A800X EVO**

**1/10-SCALE TOURING CAR**



## **INSTRUCTION MANUAL**

## INTRODUCTION

Congratulations on purchasing your Awesomatix car!

The A800X EVO car was designed in Russia and produced by Awesomatix Innovations company.

The A800X EVO car utilises many unique features, including some patented innovations.

## BEFORE YOU START

The A800X EVO 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 A800X EVO car you must not begin assembly. Your A800X EVO car cannot be returned to Awesomatix Innovations 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 A800X EVO car is designed for use on r/c car race tracks. It should not be used in general public areas.

Awesomatix Innovations accept 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.

Awesomatix Innovations 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 A800X EVO 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 they are the correct size/length. You can find the useful tips and pictures of A800X EVO assembling on the Internet sites: [www.awesomatix.info/en/tips-tricks/aufbau/](http://www.awesomatix.info/en/tips-tricks/aufbau/), [www.awesomatixusa.com/p/tips.html](http://www.awesomatixusa.com/p/tips.html), <http://jdandracing.blogspot.gr>, <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. Awesomatix Innovations accept 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)

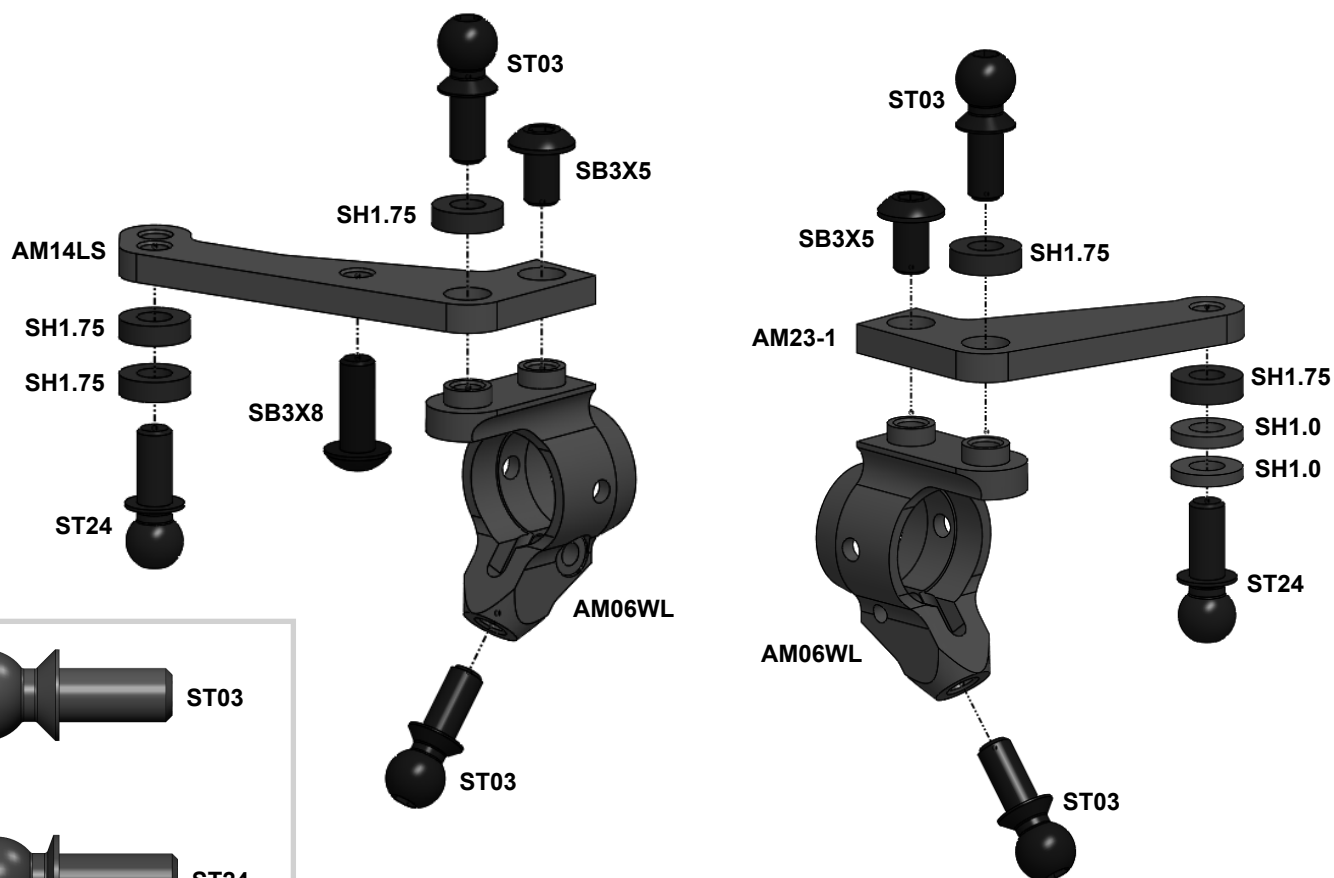
- Radio Transmitter
- Radio Receiver
- Electronic Speed Control
- Steering Servo
- Electric Motor
- Pinion Gear (64 or 48 Pitch)
- Spur Gear (64 or 48 Pitch)
- 7.4 V Li-Po Battery
- 190mm Body Shell
- Touring Car Wheels, Tires, Inserts

## 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
- Joint Grease



## STEP 1

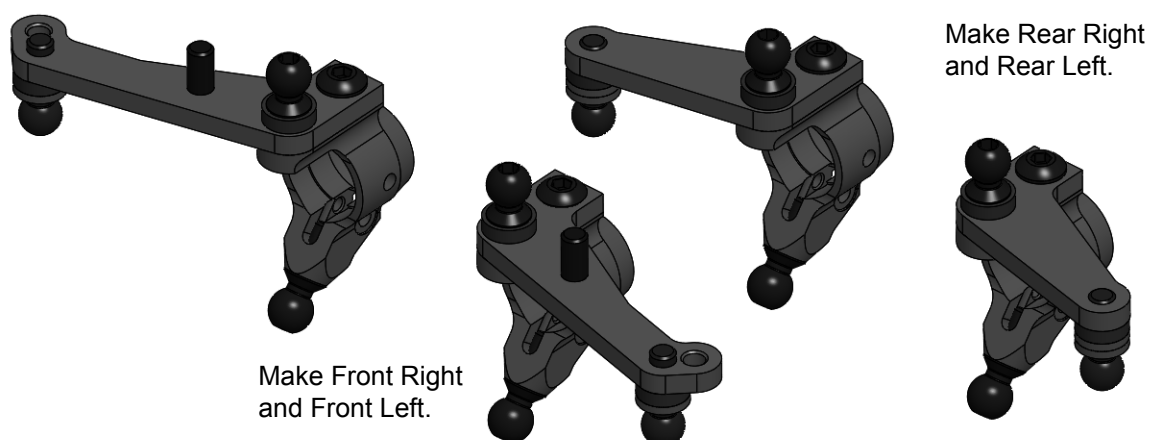


**Note:** The last turns of the lower **ST03** Ball Studs and **SB3X5** screws can be tight. Screw them with force.

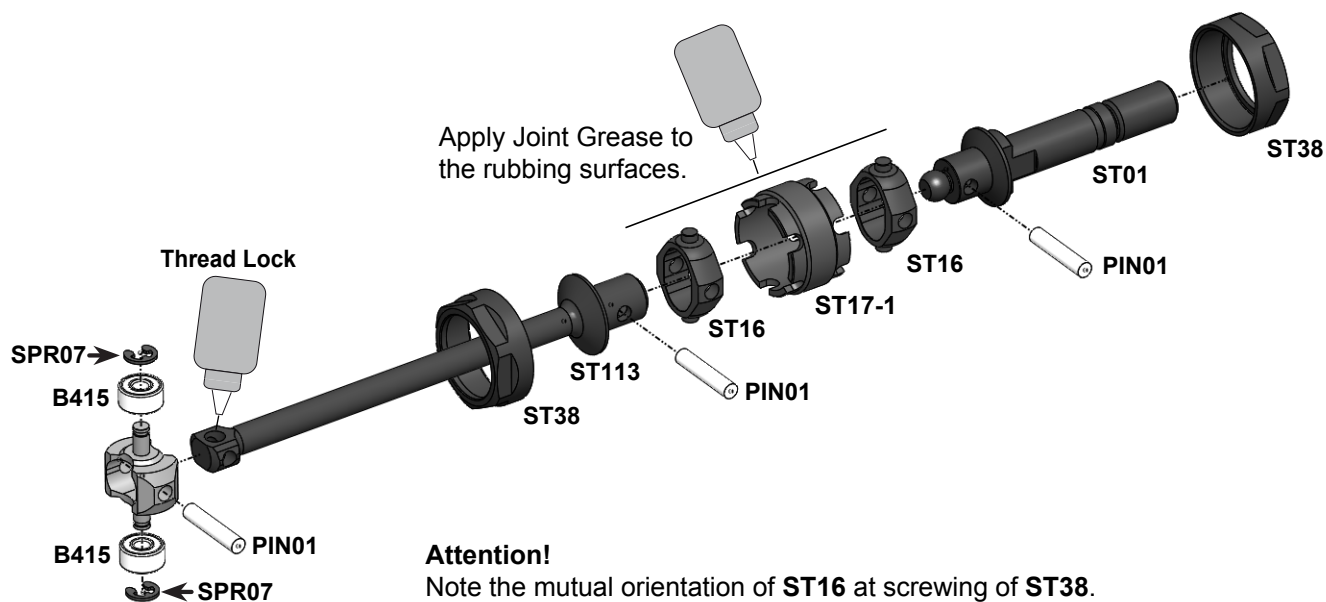
		<b>SB3X5</b> M3x5 Button Head Screw	x4	<b>ST03</b> Ball Stud	x8
		<b>SB3X8</b> M3x8 Button Head Screw	x2	<b>AM06WL</b> Steering Block	x4
				<b>AM14LS</b> Steering Arm	x2
		<b>SH1.0</b> 6x3x1mm Spacer (Gray)	x4	<b>AM23-1</b> Rear Steering Arm	x2
		<b>SH1.75</b> 6x3x1.75mm Spacer (Black)	x10	<b>ST24</b> 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

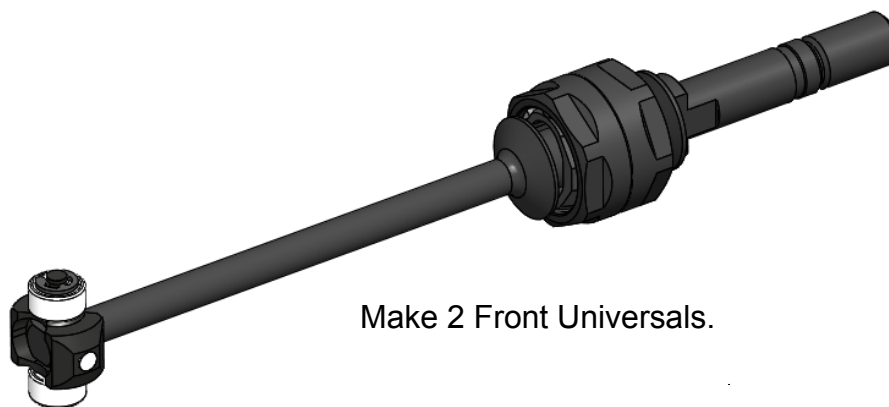


### Attention!

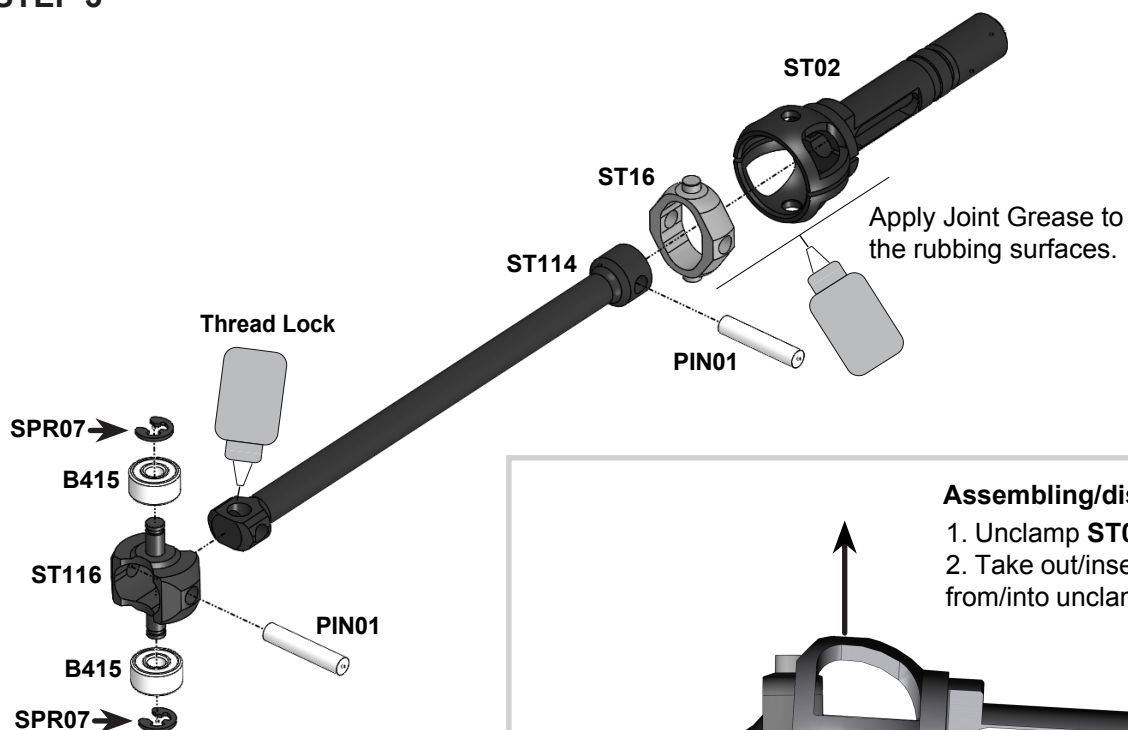
Note the mutual orientation of **ST16** at screwing of **ST38**.  
The pins of both **ST16** should be parallel to each other.  
The recommended wrench for screwing of **ST38** is  
**3/8 US standard** wrench ( ~ 9,53 mm).

	<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	x2

## STEP 2 FINISHED

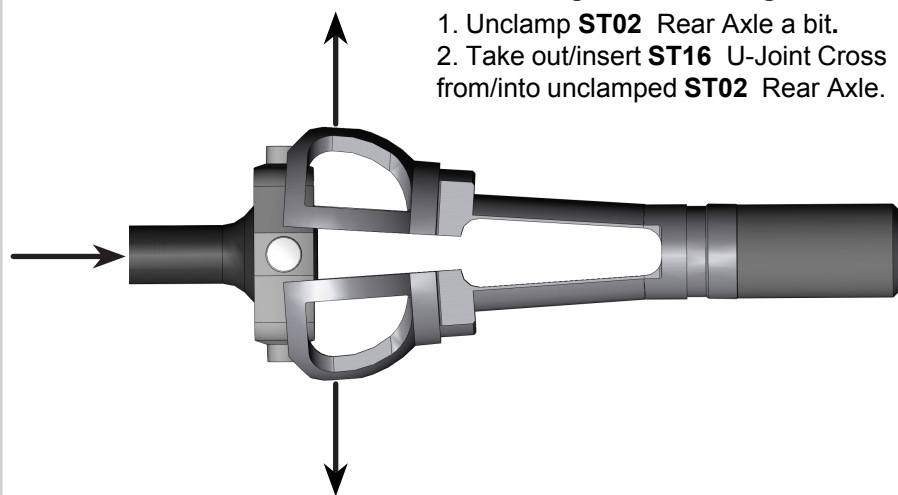


## STEP 3



### Assembling/disassembling method

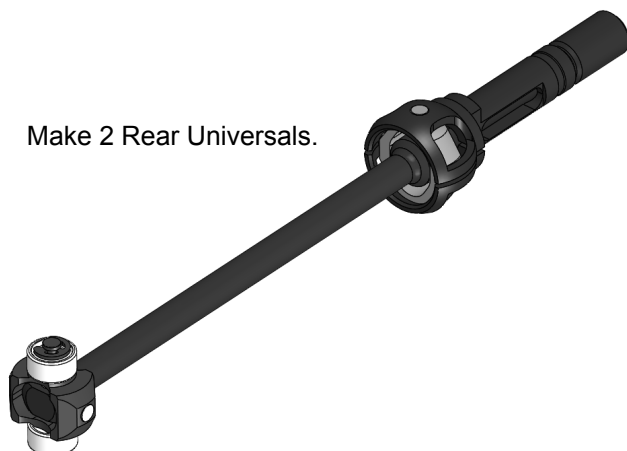
1. Unclamp **ST02** Rear Axle a bit.
2. Take out/insert **ST16** U-Joint Cross from/into unclamped **ST02** Rear Axle.



	<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

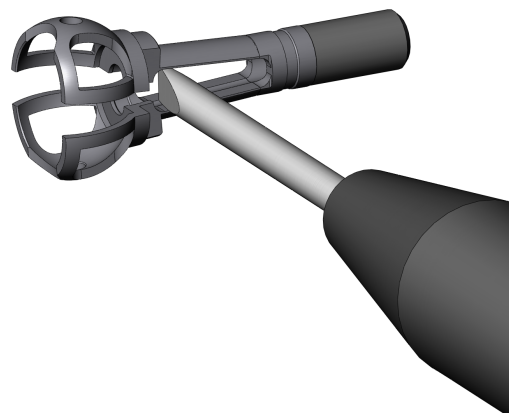
## STEP 3 FINISHED

Make 2 Rear Universals.

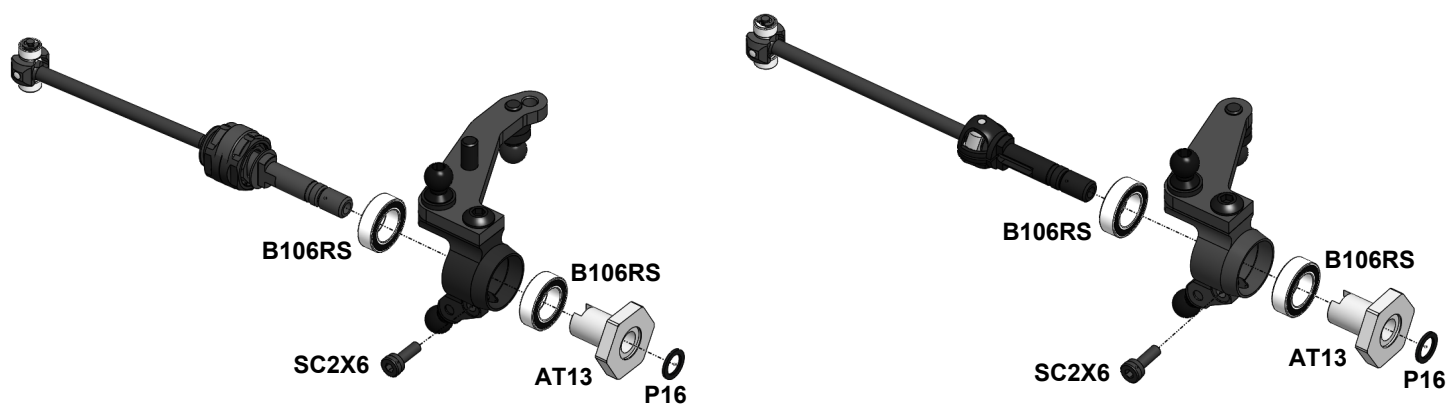





### Tip:

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

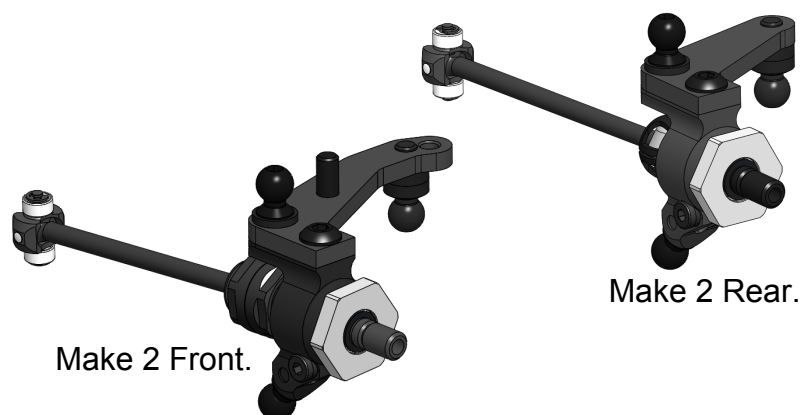


## STEP 4

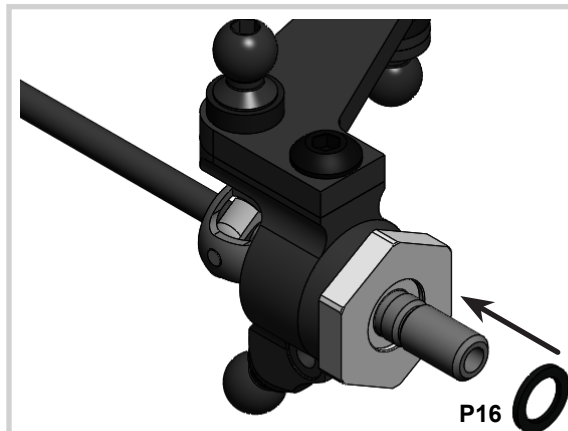


	<b>B106RS</b> MR106RS Bearing	x8	<b>AT13</b> Wheel Hex	x4
	<b>SC2X6</b> M2x6 Cap Head Screw	x4		
	<b>P16</b> Lock Ring	x4		

## STEP 4 FINISHED




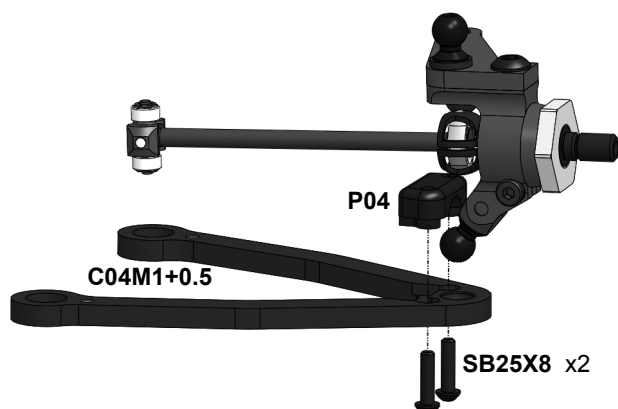
**Note:** Rear Universals may be a bit tight at this stage. But don't worry as the Rear Universals take its true position after the wheels mounting.



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

## STEP 5

	<b>SB25X8</b> M2.5x8 Button Head Screw	x8
	<b>C04M1+0.5</b> Suspension Arm	x4
	<b>P04</b> Arm Hasp	x4



**Note:**  
**P04** have the tight fit in the **C04M1+0.5** arm.  
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.

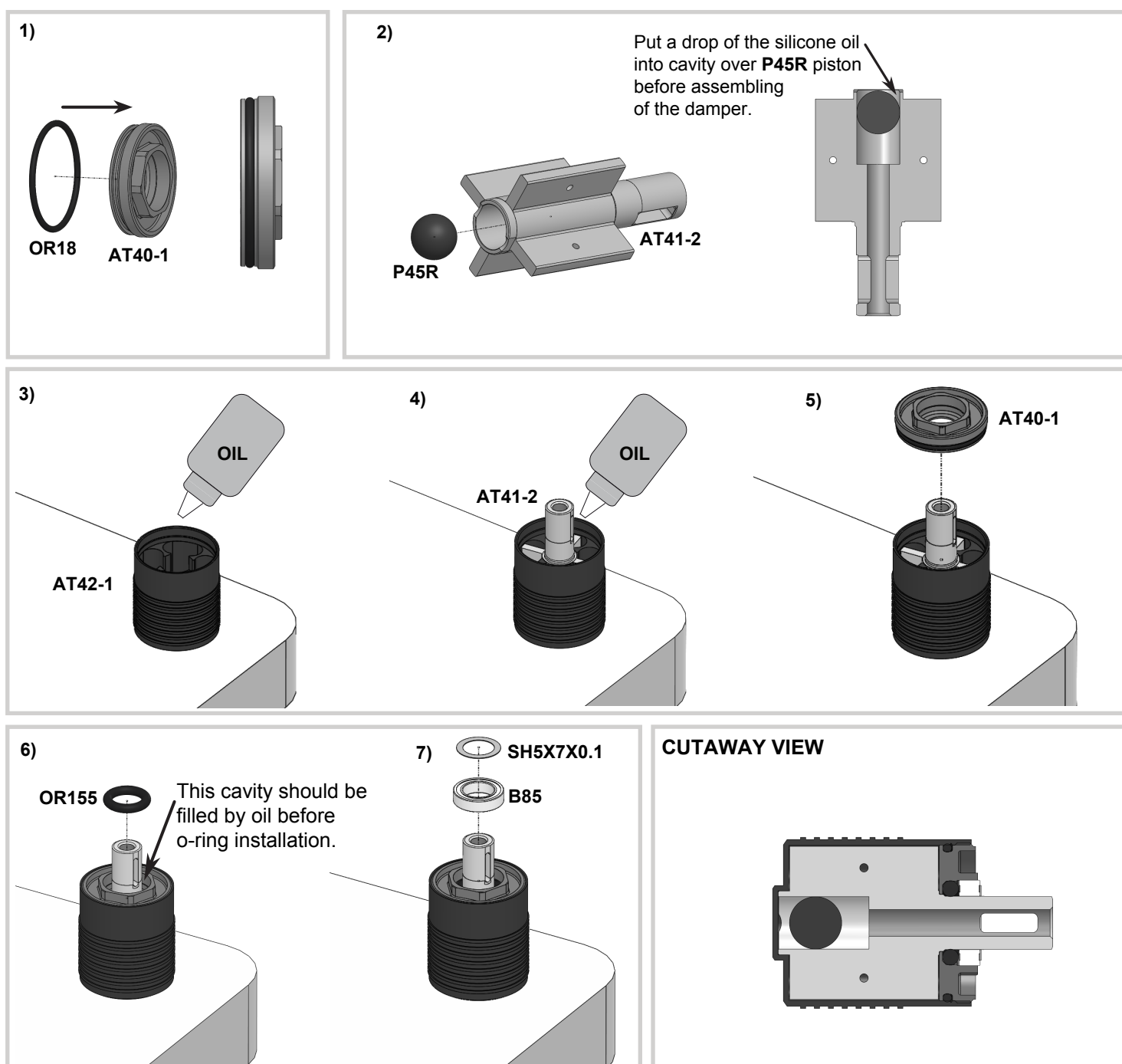


Make Rear  
Right and Rear Left.

## Rebuildable Damper Set

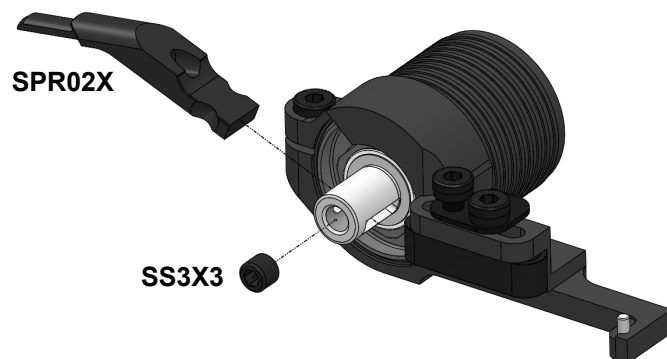
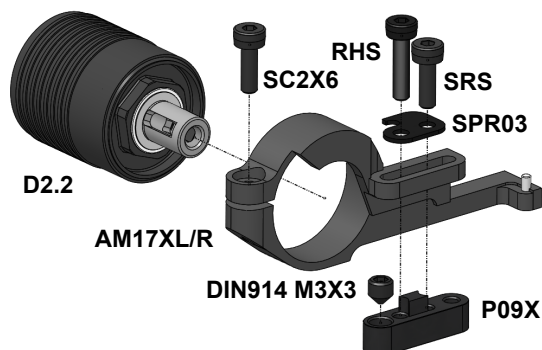
**Note:** Every **A800X** kit includes four factory assembled and oil filled **D2.2** Rebuildable Dampers. **D2.2** damper allows for both dampening adjustment via thicker silicon oil, and consistent performance since the racer can rebuild the shock. The factory assembled and oil filled **D2.2** Rebuildable Dampers come with 500 cst pure silicone oil inside. The build instructions for **D2.2** Rebuildable Dampers is on this page. For disassembling please do all steps in the reverse order.

- 1) Stretch and place **OR18** O-ring in the groove of the **AT40-1** Cup.
- 2) Insert **P45R** Piston into **AT41-2** Vane cavity. Align the outer face of **P45R** Piston with the outer edge of **AT41-2** Vane cavity.
- 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. Oil should cover the **AT41-2** Vane completely. It is highly recommend that damper be placed into a vacuum pump to remove air. Otherwise let the damper sit for 30m+ to allow air bubbles to escape.
- 5) With the damper still 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 on this stage!
- 6) Place **OR155** 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.





## STEP 6

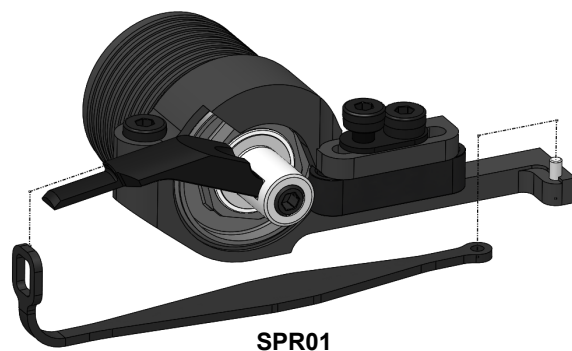
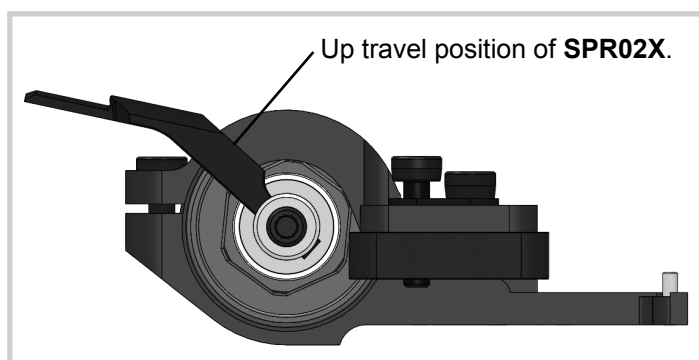


Note: **DIN914 M3X3** screw should be installed only in case of PSS - Progressive Spring Setting function want to be used. More info about PSS can be found on the **P09X** product page of the <http://shop.awesomatix.com> webshop.

		<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>RHS</b> Ride Height Screw	x4	<b>D2.2</b> Damper	x4
		<b>SPR03</b> Shock Pointer	x4	<b>SPR01</b> STD Shock Sprin	x4
		<b>P09X</b> Shock Screw Holder	x4	<b>SPR02X</b> Shock Rod Guide	x4

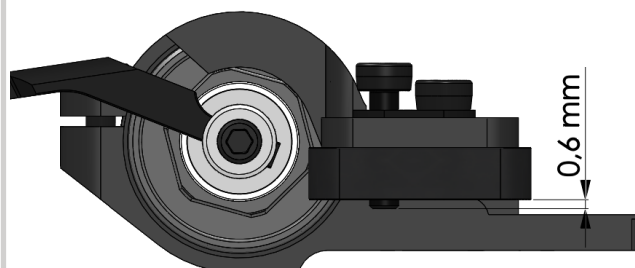
## STEP 6 (cont'd)

**Attention!** After installation of **SPR02X** rotate the complete **D2.2** 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

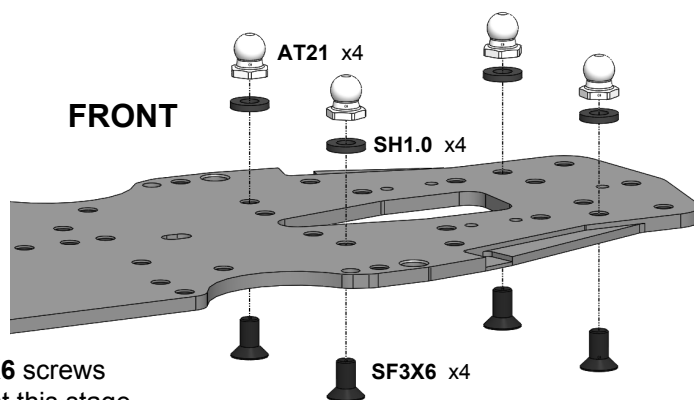
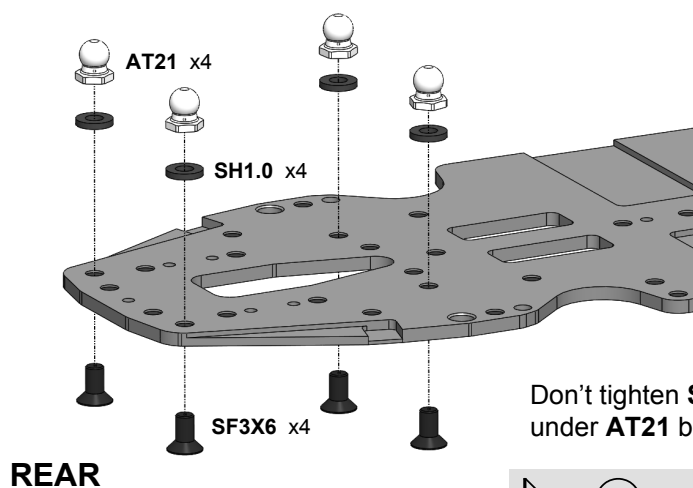
Assemble 2 Right Shocks and 2 Left Shocks.



**Note:**  
Initial position of **RHS** Ride Height Screw is ~0,6mm. Don't tighten **SRS** Spring Rating Screw too much to avoid **P09X** thread damage.

## STEP 7

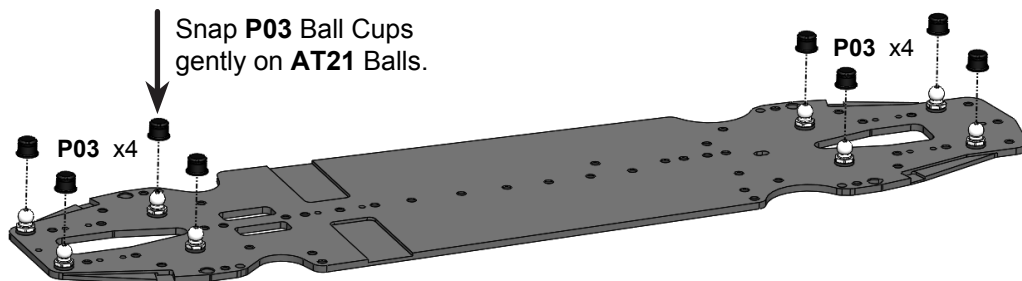
**Note:** C01B-X-LA Carbon Lower Deck is used in A800X EVO kit  
 C01B-XA-LA Alloy Lower Deck is used in A800XA EVO kit  
 C01B-XAH-LA Alloy Hard Lower deck is used in A800XAH EVO kit



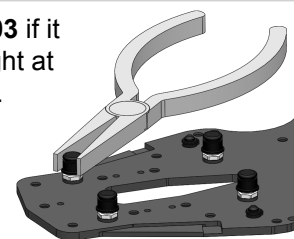
Don't tighten **SF3X6** screws under **AT21** balls at this stage.

	<b>SF3X6</b> M3x6 Flat Head Screw	x8	<b>P03</b> Arm Ball Cap	x8
	<b>SH1.0</b> 6x3x1mm Spacer (Gray)	x8	<b>AT21</b> Pivot Ball	x8

## STEP 7 FINISHED



Crimp **P03** if it will be tight at swinging.



**Note:** Use other combinations of **SH0.5**, **SH1.0** and **SH1.75** spacers under appropriate **AT21** balls to adjust your car set-up.

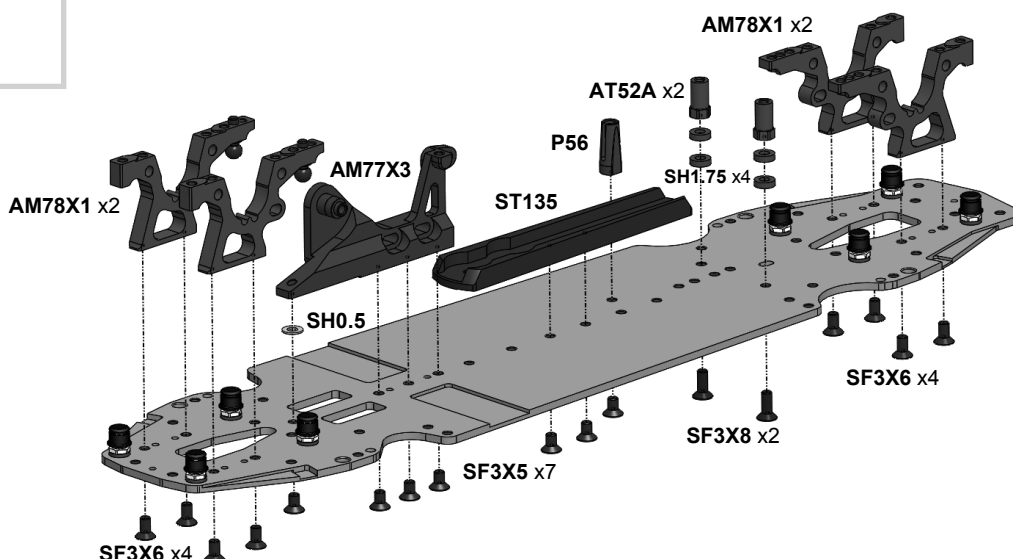
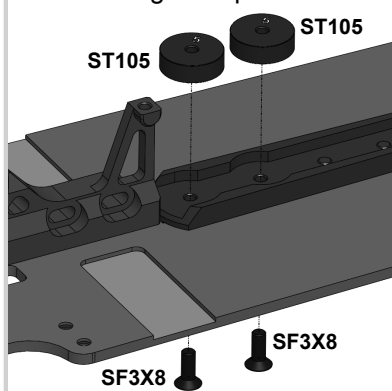
## STEP 8

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

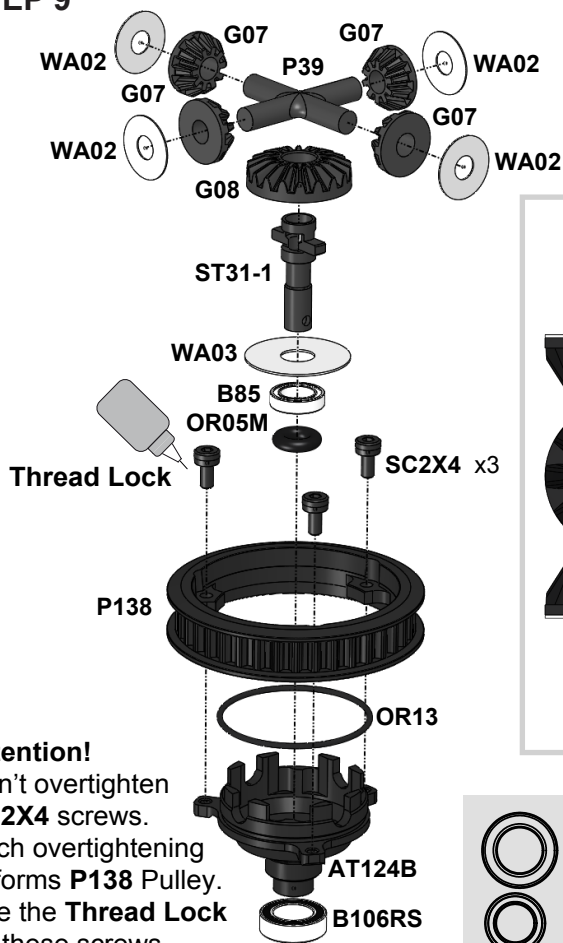


	<b>SF3X6</b> M3x6 Flat Head Screw	x8	<b>ST24</b> 4,8mm Ball Stud	x2
	<b>SF3X5</b> M3x5 Flat Head Screw	x7	<b>AM77X3</b> Motor Mount	x1
	<b>SF3X8</b> M3x8 Flat Head Screw	x2	<b>AM78X1</b> Bulkhead	x4
	<b>SH1.75</b> 6x3x1,75mm Spacer	x4	<b>ST135</b> 35g Chassis Stiffener	x1
			<b>P56</b> Antenna Holder	x1
			<b>AT52A</b> Bellcrank Post	x2

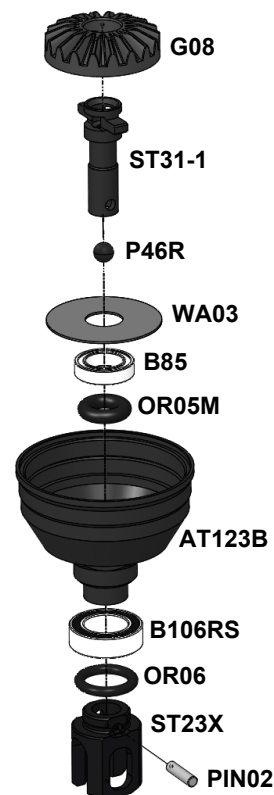
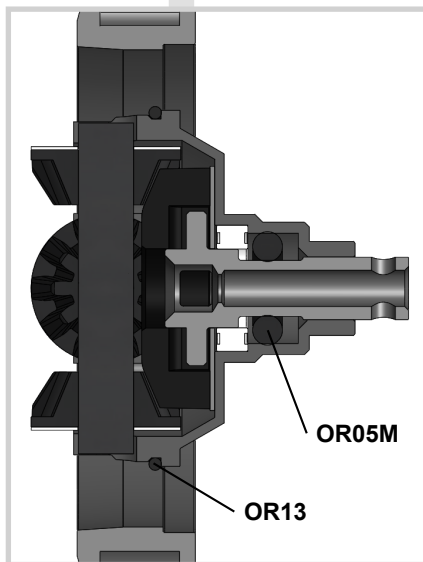
Installation of additional **ST105** Round Weights is possible.



## STEP 9



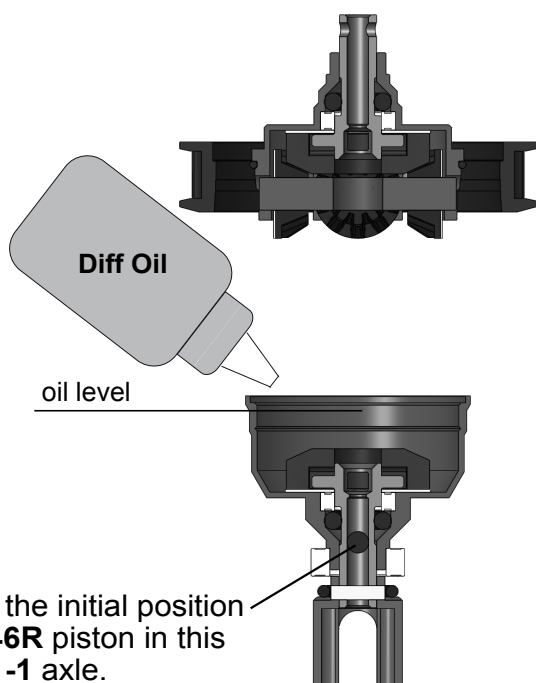
## STEP 10



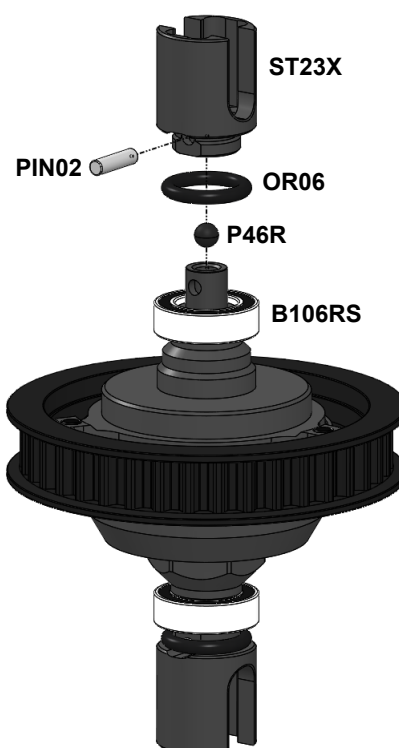
	<b>B106RS</b>	MR106RS Bearing	x2	<b>AT123B</b>	GD2B Case1	x1
	<b>B85</b>	MR85 Bearing	x2	<b>AT124B</b>	GD2B Case2	x1
	<b>OR05M</b>	O-Ring	x2	<b>P138</b>	38T Pulley	x1
	<b>OR06</b>	O-Ring	x2	<b>ST23X</b>	IRJ Outdrive	x2
	<b>P46R</b>	Piston	x2	<b>ST31-1</b>	GD2 Output Axle	x2
	<b>PIN02</b>	1,5x5,8 Pin	x2	<b>P39</b>	GD2 Cross Pin	x1
	<b>SC2X4</b>	M2x4 Cap Head screw	x3	<b>OR13</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

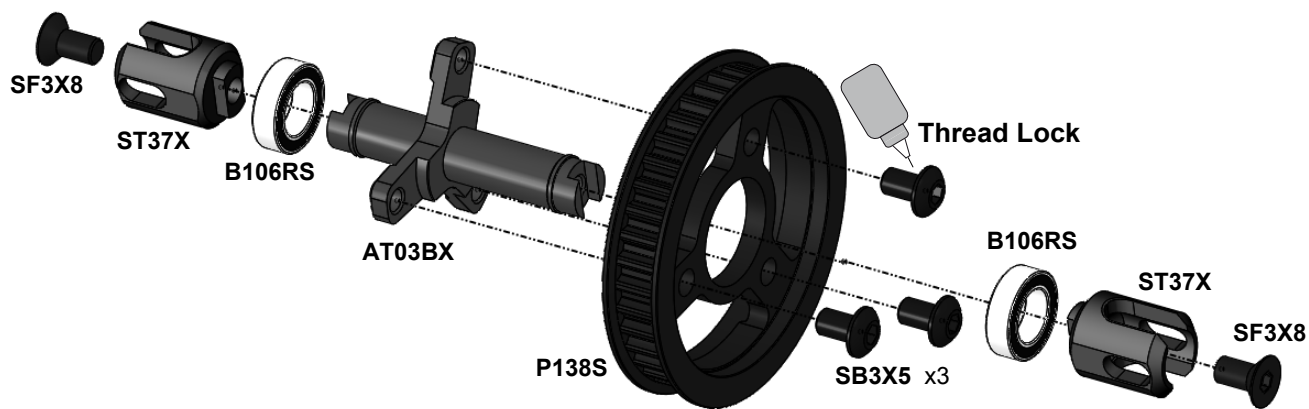
Fill with desirable silicone oil (not included).  
Screw **AT123B** GD2B Case with 10mm wrench slowly.  
The excessive oil will go out through the **ST31-1** axial hole.



## STEP 12

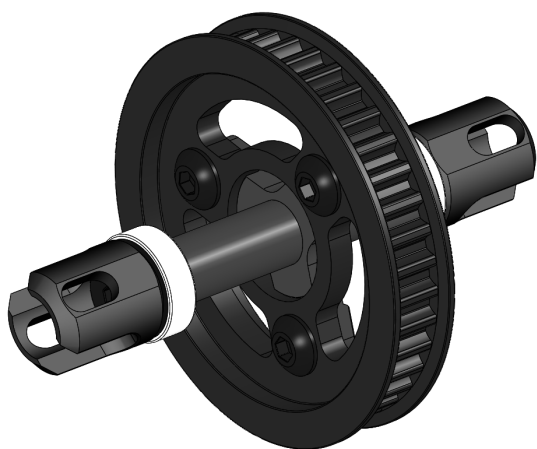


## STEP 13



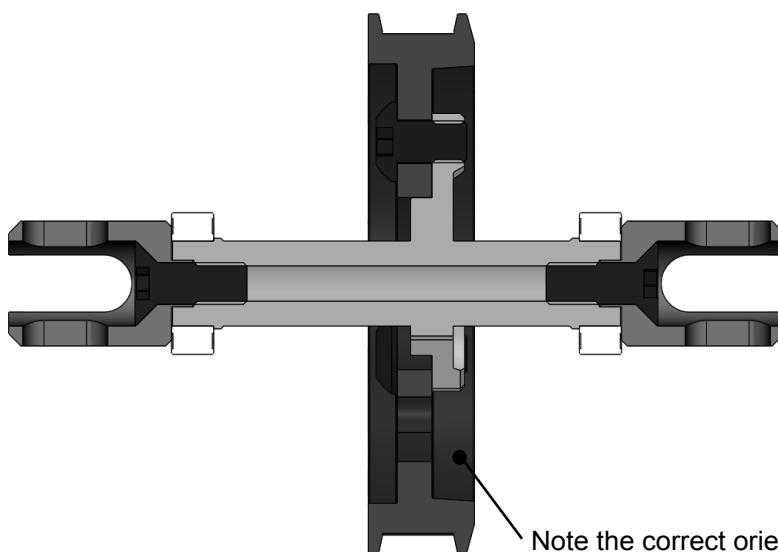
	<b>B106RS</b>	MR106RS Bearing	x2		<b>ST37X</b>	Spool Outdrive	x2
	<b>SF3X8</b>	M3x8 Flat Head Screw	x2		<b>AT03BX</b>	Spool Axle	x1
	<b>SB3X5</b>	M3x5 Button Head Screw	x3		<b>P138S</b>	Spool38T Pulley	x1

## STEP 13 FINISHED



### Attention!

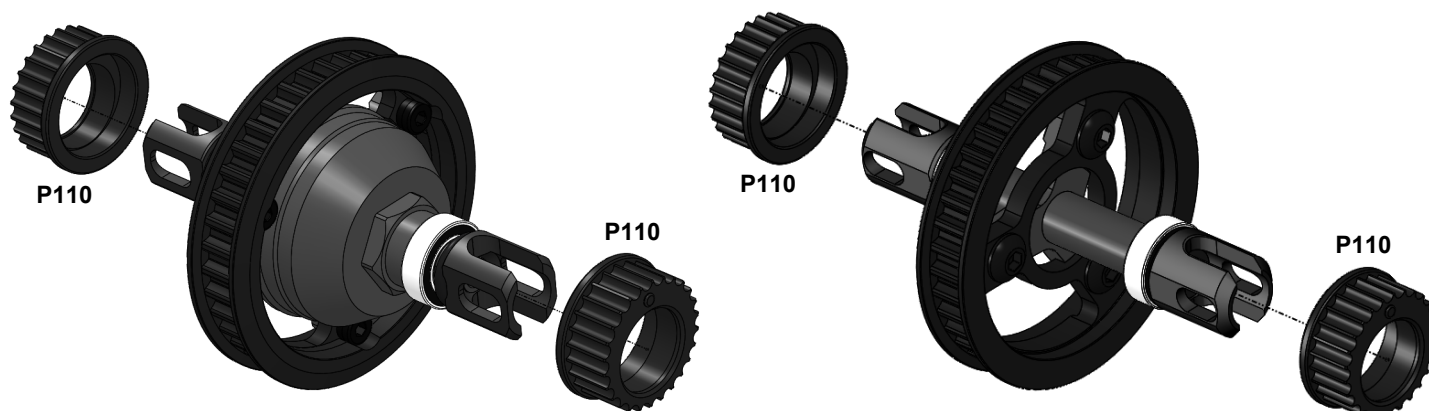
Don't overtighten **SB3X5** screws.  
Such overtightening deforms **P138S** Pulley.  
Use the **Thread Lock** for these screws.



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

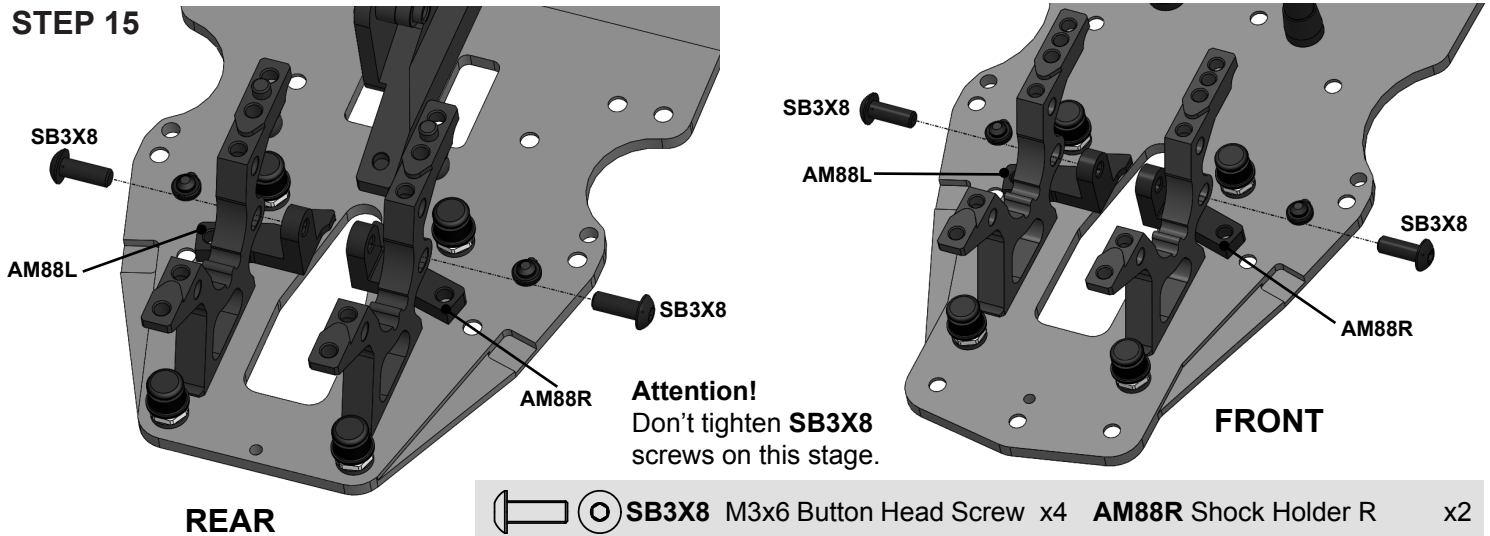
## STEP 14

**P110** Bearing Housing x4





## STEP 15

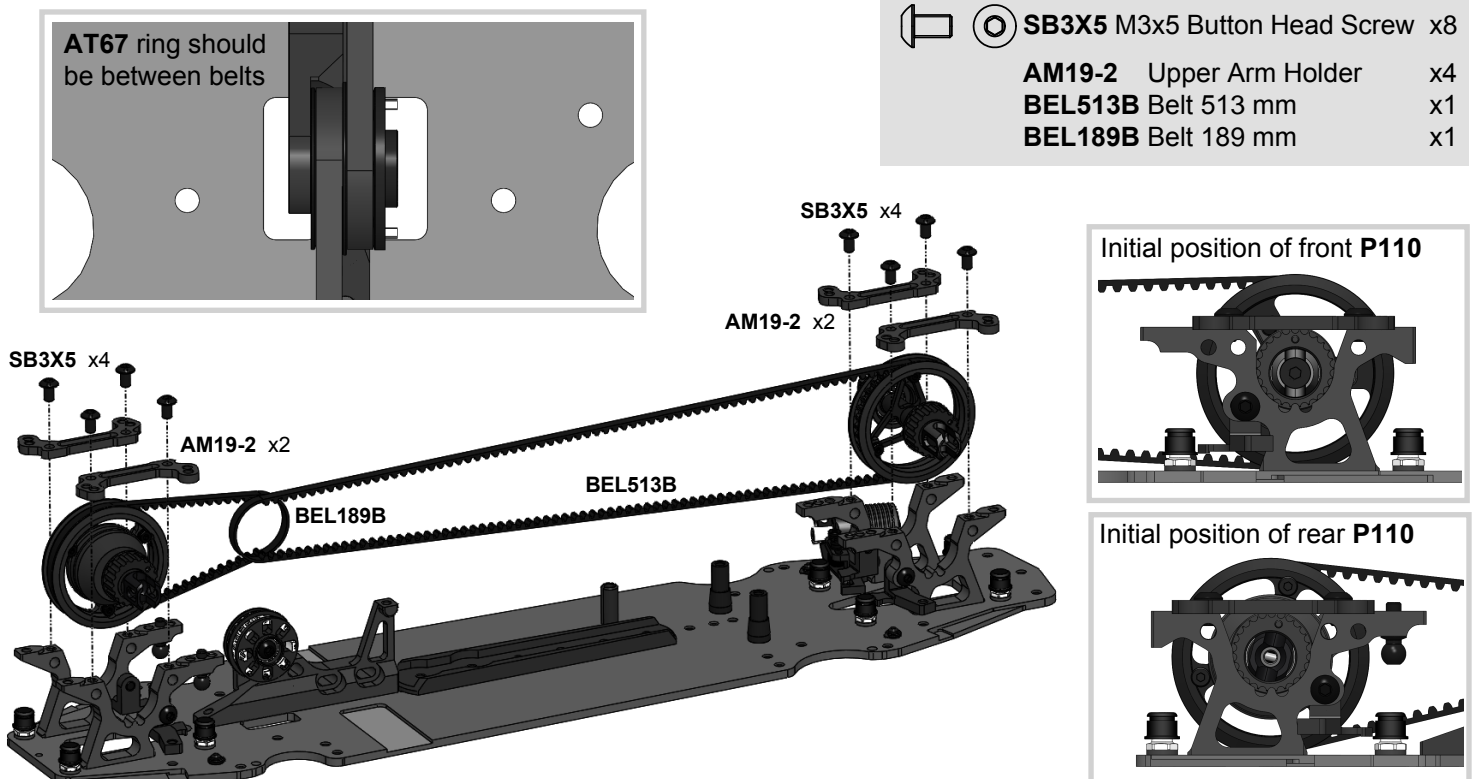


	<b>SB3X8</b> M3x6 Button Head Screw	x4	<b>AM88R</b> Shock Holder R	x2
	<b>SB3X6</b> M3x6 Button Head Screw	x1	<b>AM88L</b> Shock Holder L	x2
	<b>SH0.1</b> 6x8x0.1mm Shim	x1	<b>AT120</b> 20T Alloy Pulley	x1
	<b>B106RS</b> MR106RS Bearing	x1	<b>AT62</b> Spur Holder	x1
	<b>B84RS</b> MR84RS Bearing	x1	<b>DT08</b> Pulley Flange	x1
			<b>AT67</b> Pulley Washer	x1

## STEP 16

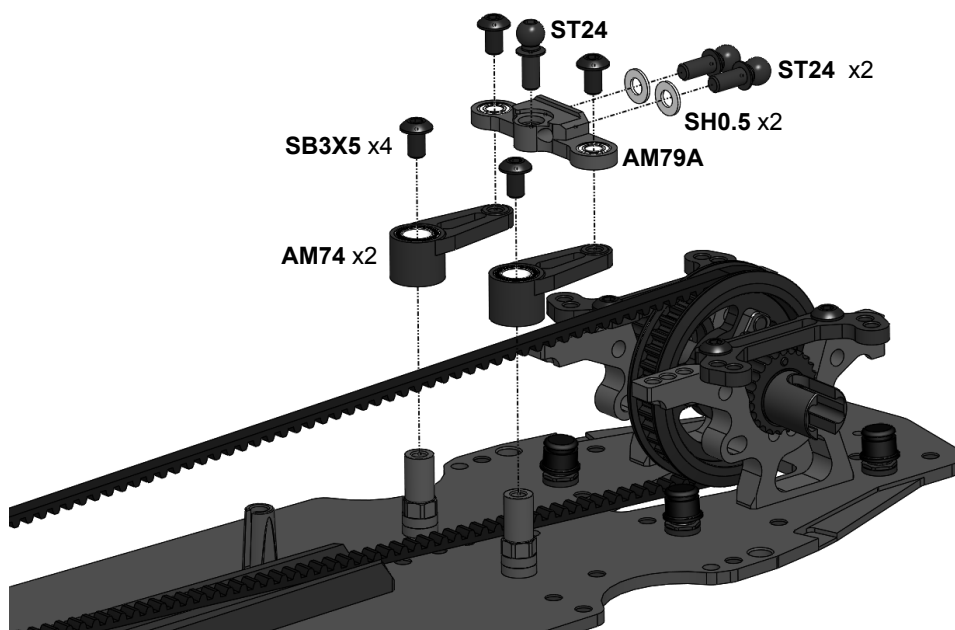


## STEP 17



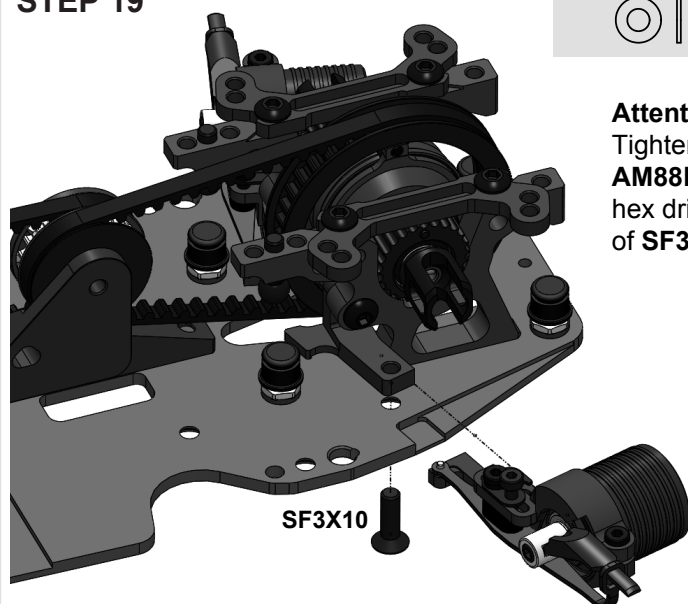


## STEP 18

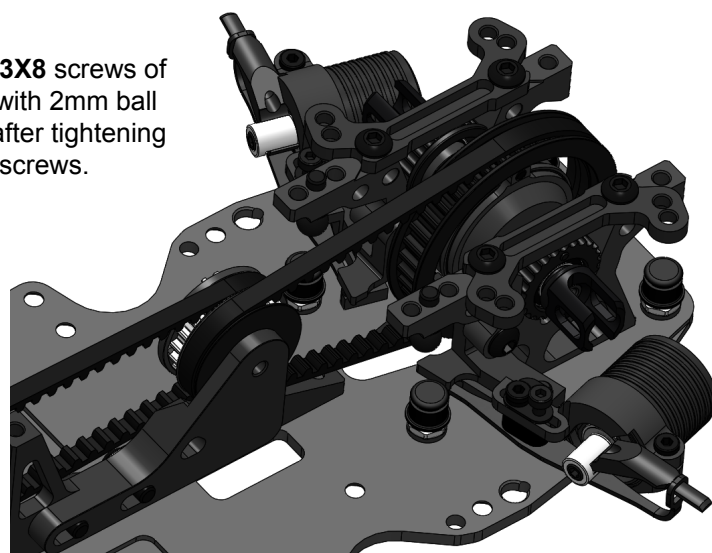


	<b>SB3X5</b> M3x5 Button Head Screw	x4	<b>AM79A</b> Steering Rack	x1
	<b>SF3X10</b> M3x10 Flat Head Screw	x4	<b>AM74</b> Steering Bellcrank	x2
	<b>SH1.0</b> 6x3x0.5mm Spacer (Silver)	x2	<b>ST24</b> 4,8x6mm Ball Stud	x3

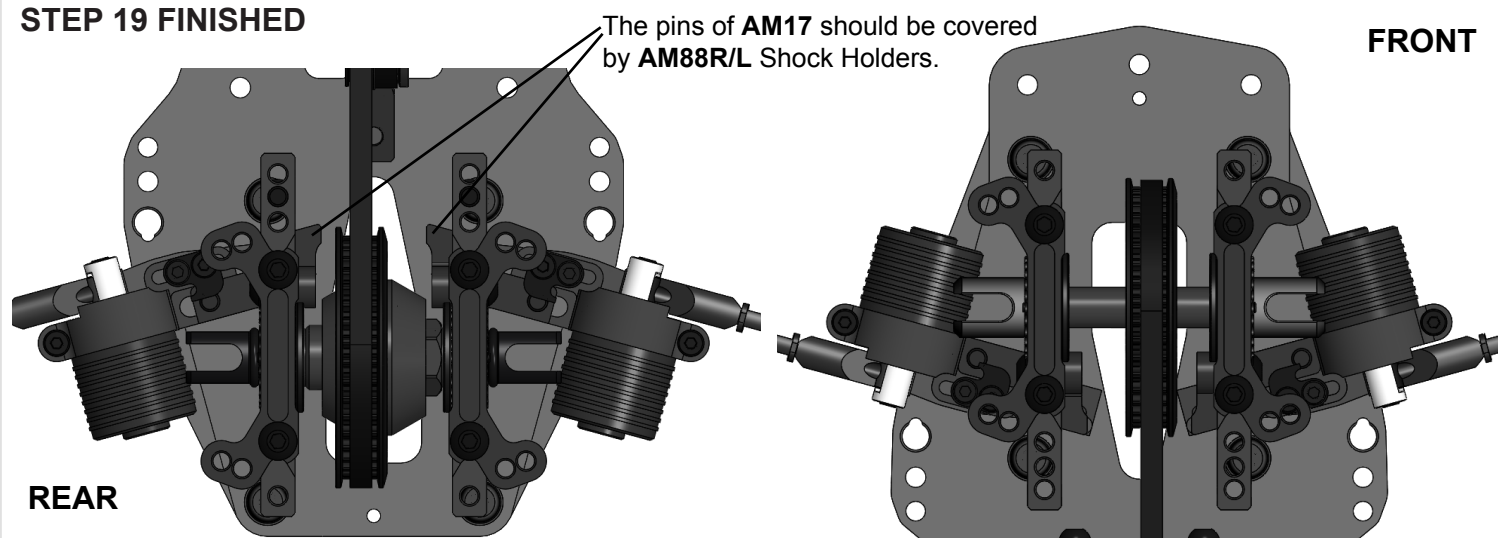
## STEP 19



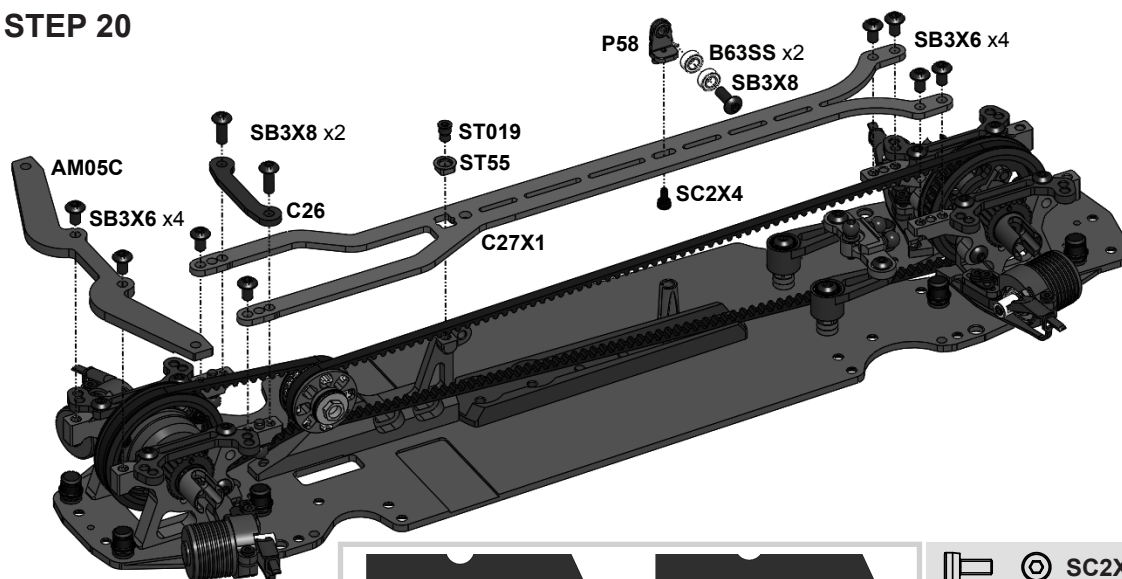
**Attention!**  
Tighten **SB3X8** screws of **AM88L/R** with 2mm ball hex driver after tightening of **SF3X10** screws.



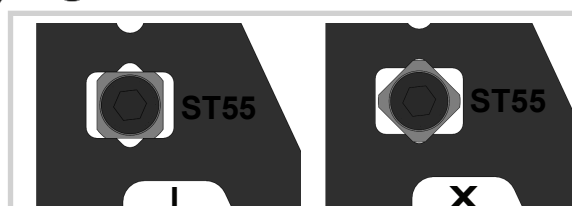
## STEP 19 FINISHED



## STEP 20



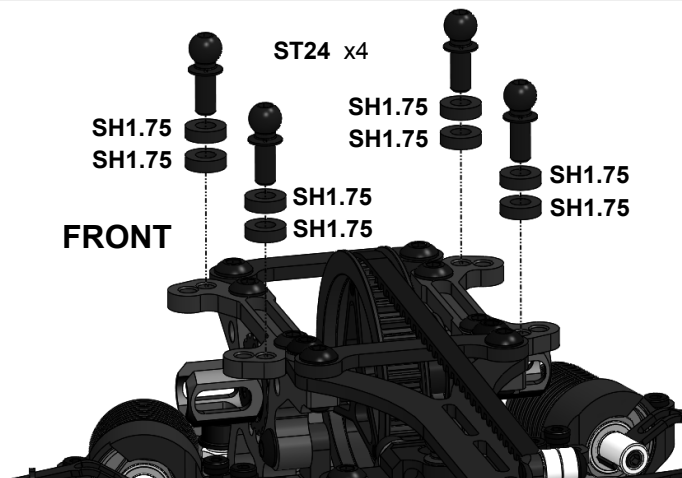
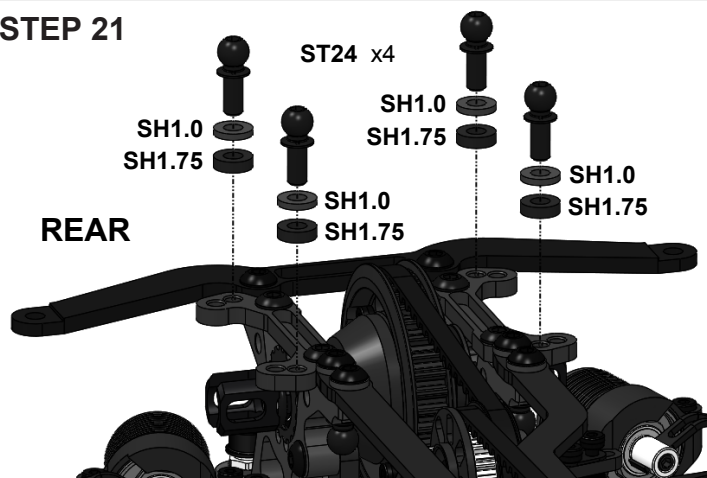
<b>C27X1</b>	Top Deck	x1
<b>C26</b>	Top Stiffener	x1
<b>P58</b>	Belt Tensioner	x1
<b>AM05C</b>	Rear Holder	x1



**Note:** Two orientations of **ST55** bushing are possible. Position **I** provides an increased flex of the chassis.

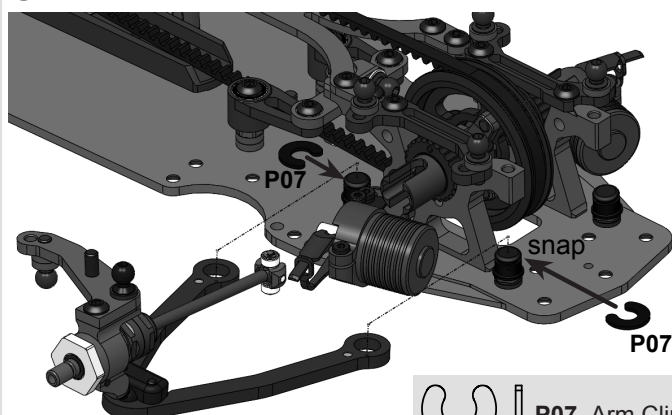
	<b>SC2X4</b> M2x4 Cap Head Screw	x1
	<b>SB3X6</b> M3x6 Button Head Screw	x8
	<b>SB3X8</b> M3x8 Button Head Screw	x3
	<b>B63SS</b> MR63ZZ bearing	x2
	<b>ST019</b> Top Deck Screw	x1
	<b>ST55</b> Top Deck Bushing	x1

## STEP 21



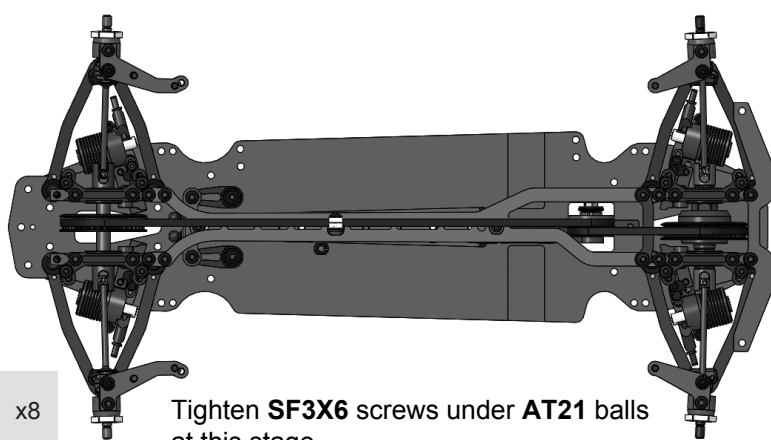
	<b>SH1.0</b> 6x3x1mm Spacer (Gray)	x4		<b>ST24</b> 4,8x6mm Ball Stud	x8
	<b>SH1.75</b> 6x3x1.75mm Spacer (Black)	x12			

## STEP 22



	<b>P07</b> Arm Clip	x8
--	---------------------	----

## STEP 22 FINISHED



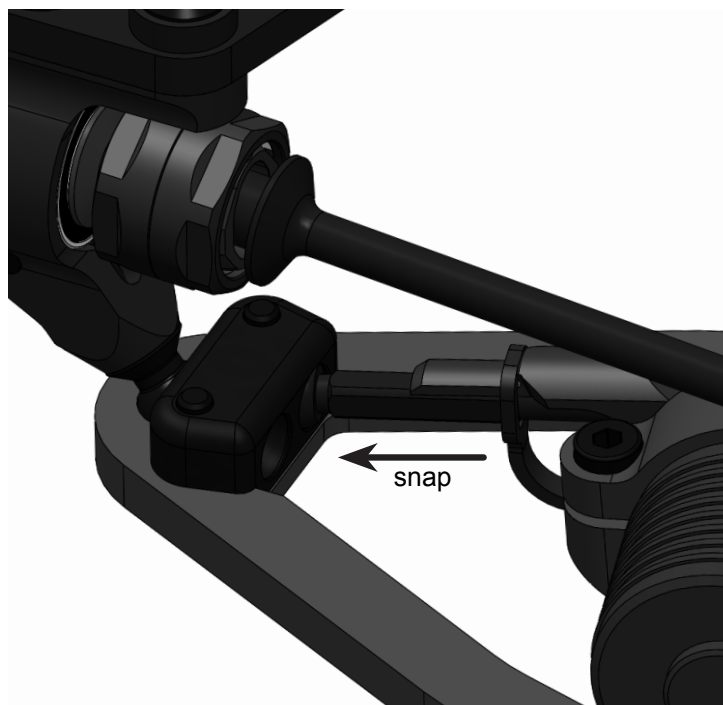
Tighten **SF3X6** screws under **AT21** balls at this stage.

## STEP 23

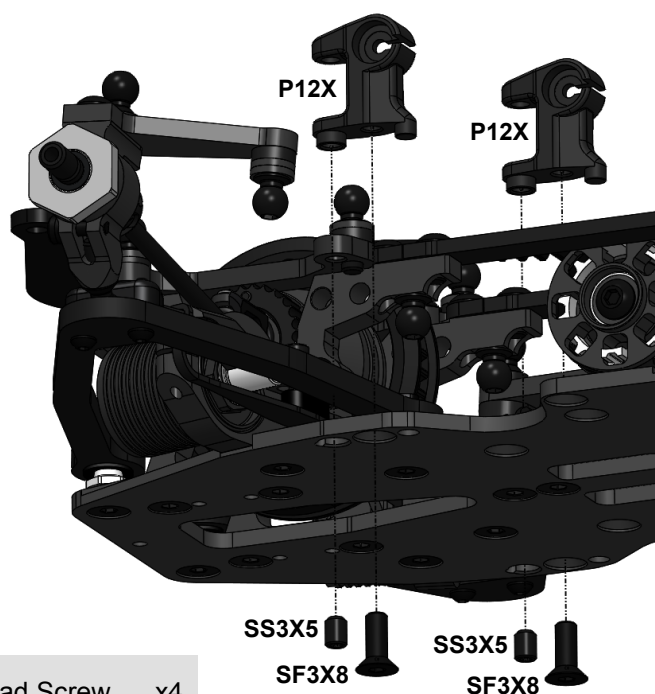
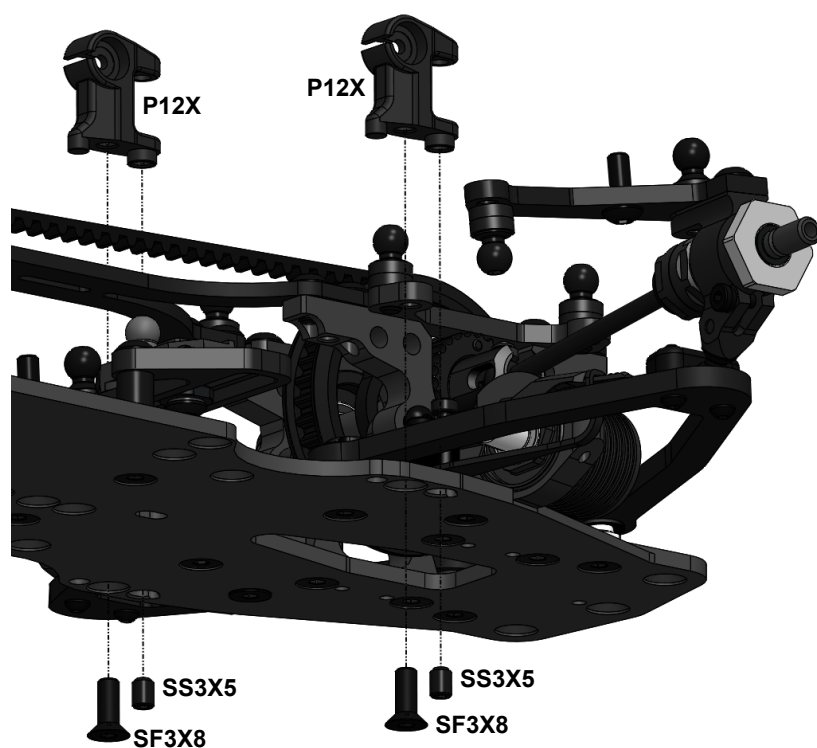


ST05L Shock Rod x4

## STEP 23 FINISHED

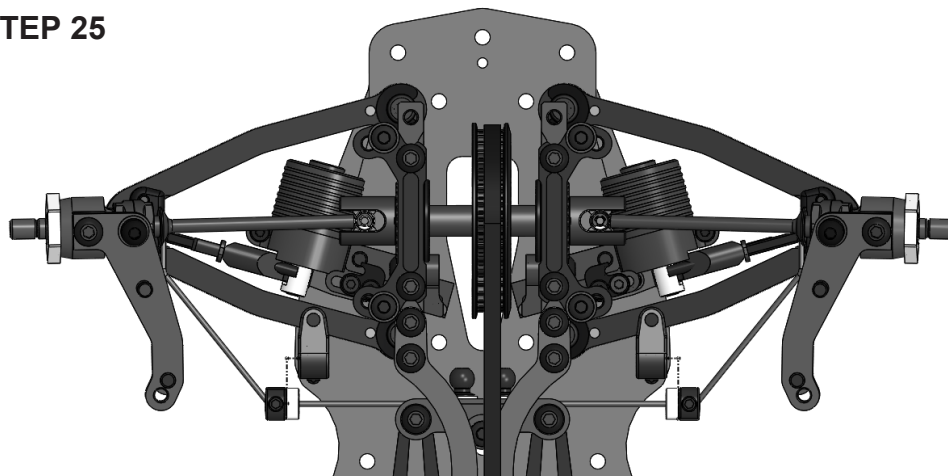


## STEP 24



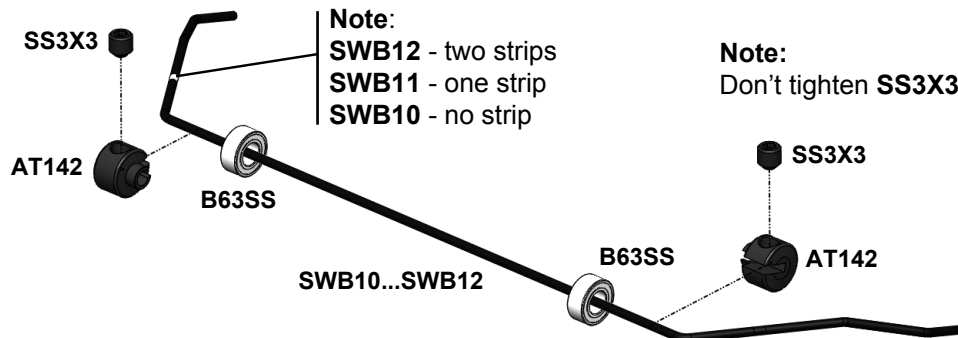
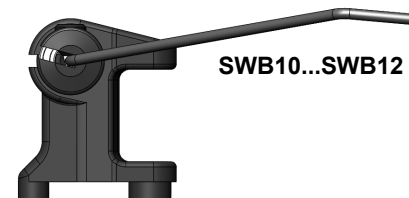
		SF3X8 M3x8 Flat head Screw	x4
		SS3X5 M3x5 Set Screw	x4
		P12X Sway Bar Holder	x4

## STEP 25



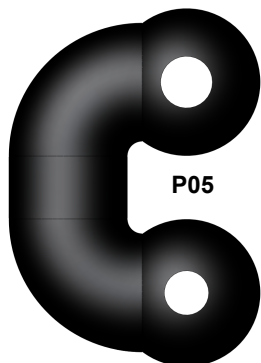
### Attention!

The deflected tips of Sway Bar should be directed downwards.



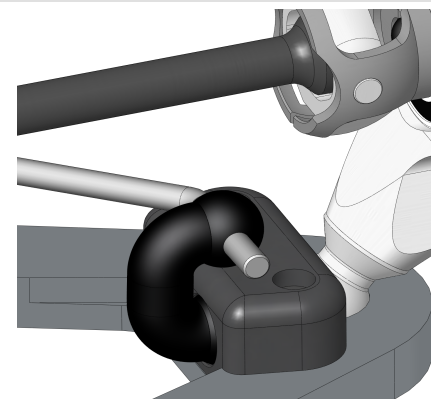
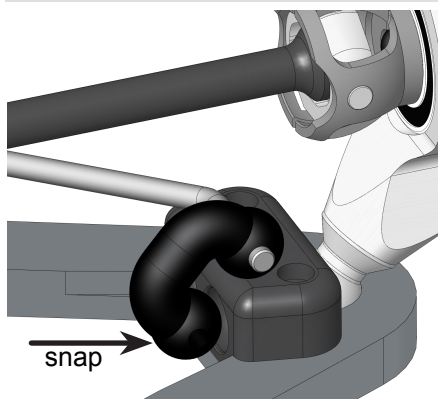
## STEP 25 (cont'd)

- ◎ **SS3X3** M3x3 Set Screw x4
- ◎ □ **B63SS** MR63ZZ Bearing x4
- SWB10....SWB12** Sway Bar x2
- P05** Sway Bar Joint x4
- AT142** Sway Bar Stopper x4

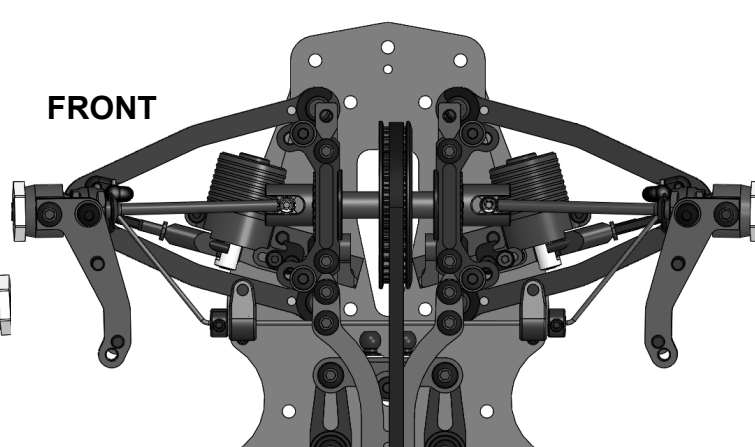
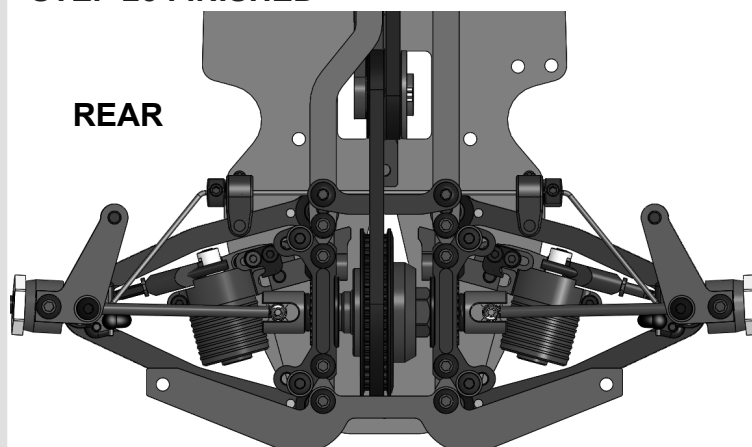


Use bigger hole for **SB12** Sway Bars.

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



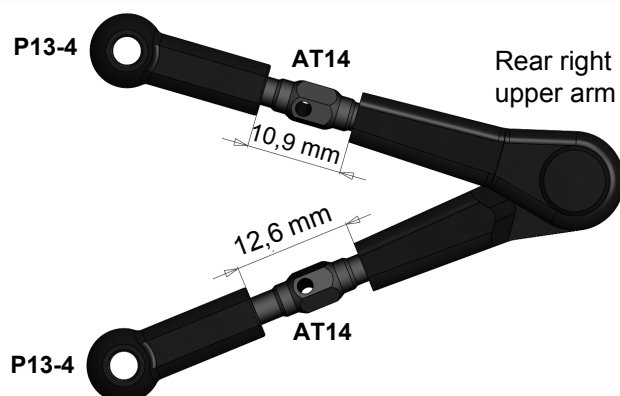
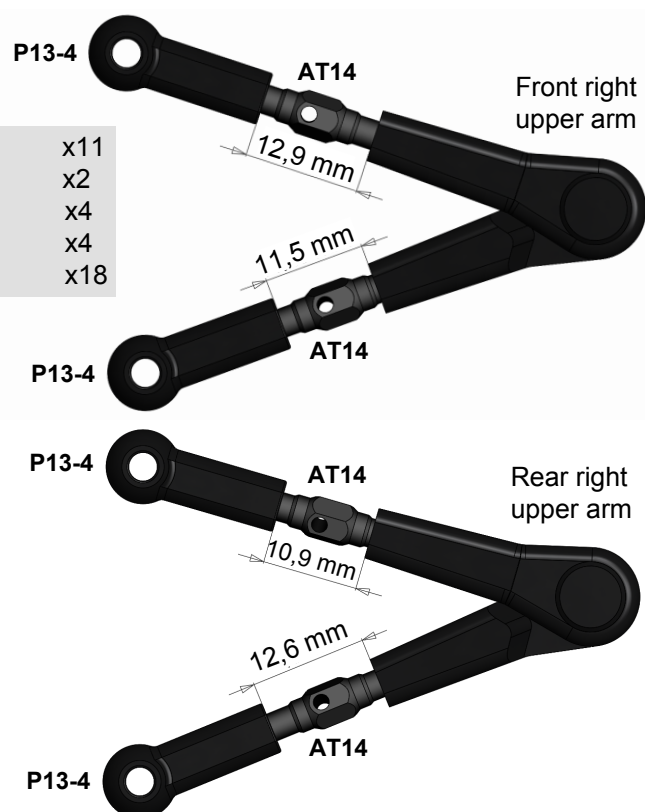
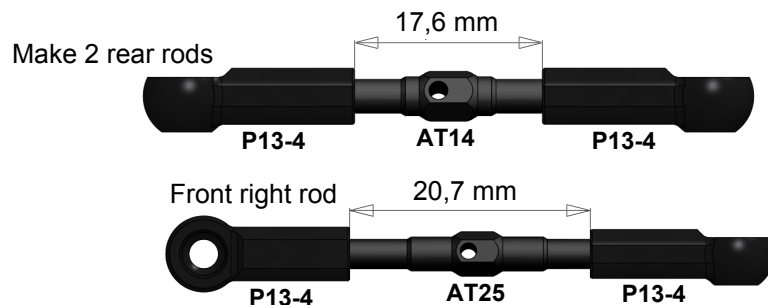
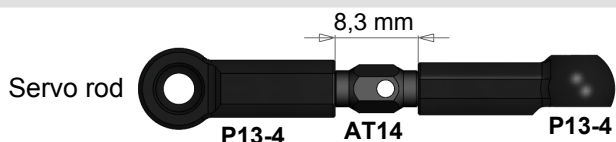
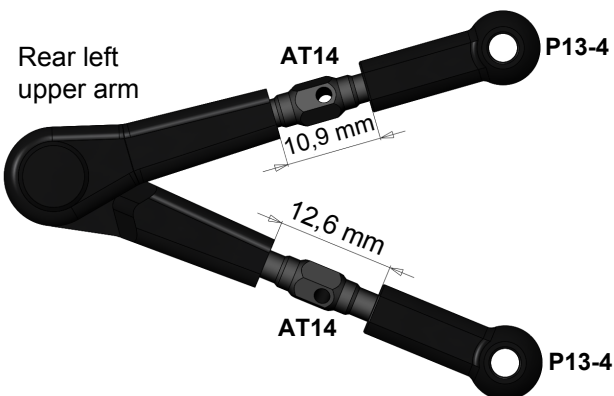
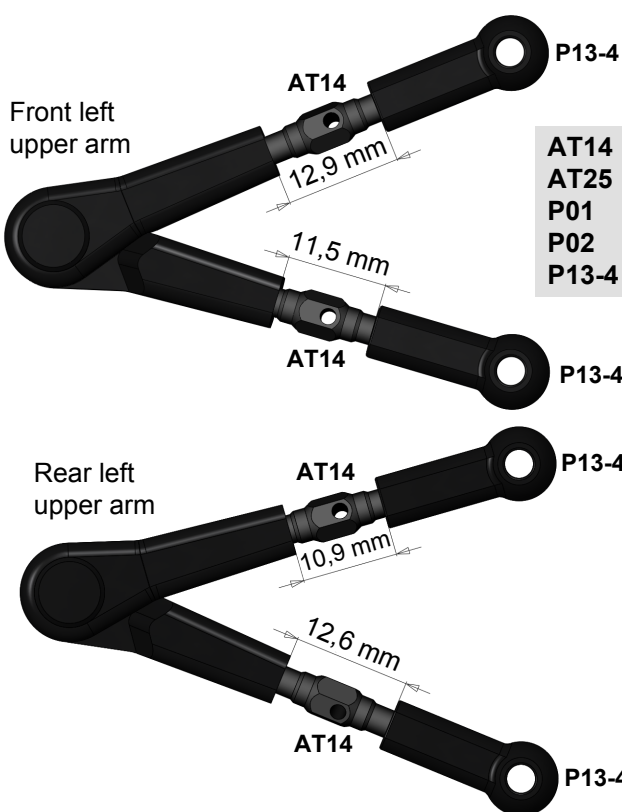
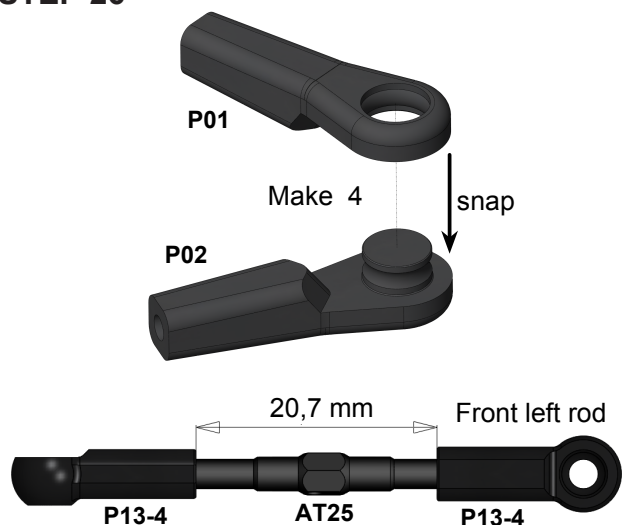
## STEP 25 FINISHED



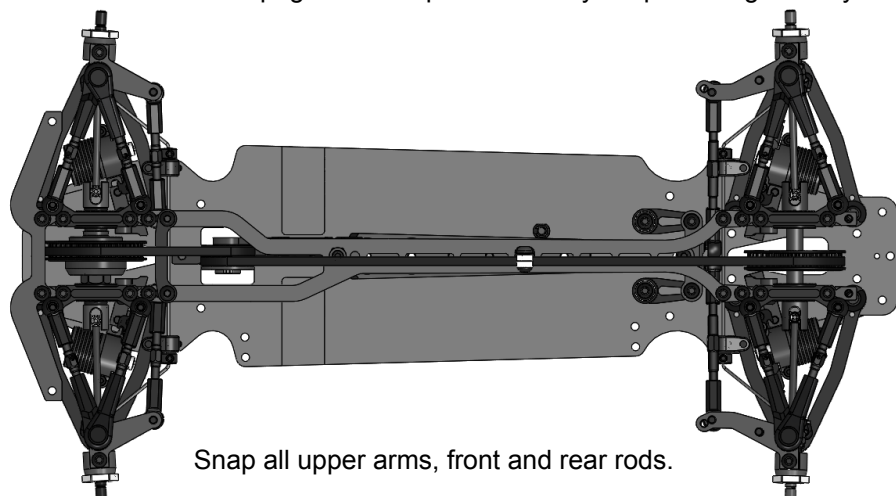
Adjust **AT142** Stoppers disposal to reach the centered position of the Sway Bars and tighten **SS3X3** Set Screws after that.



## STEP 26

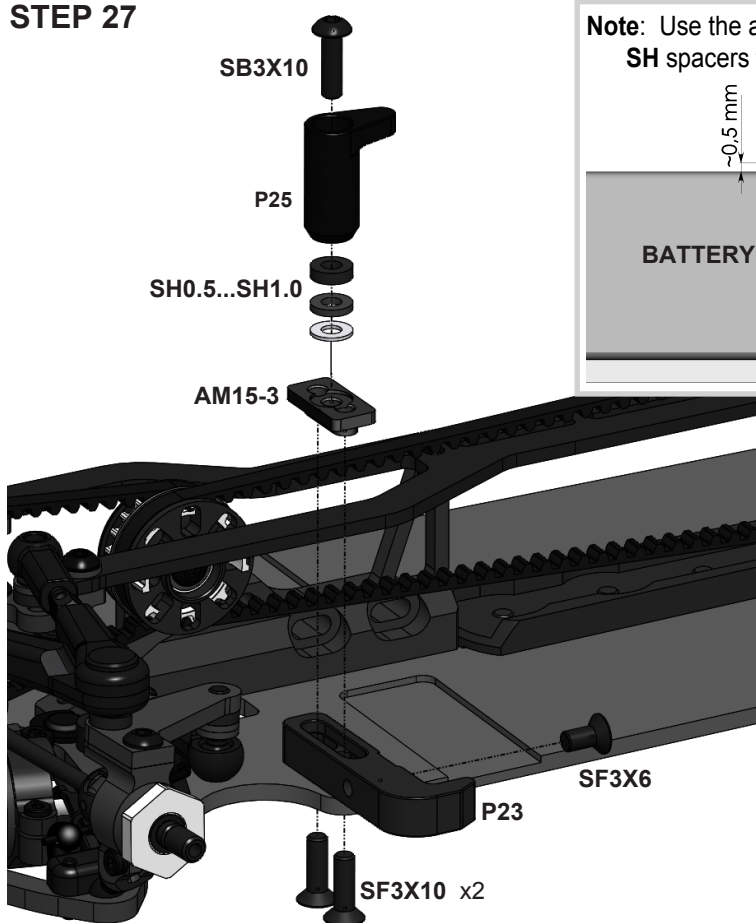


**Notes:** The given rods and arms sizes are approximately for 4° front caster and - 4° rear caster, 2° both front and rear cambers, 2,5° rear toe-in and 1° front toe out angles. Use a setup station or angles gauge for further precise suspension geometry setting. See our recommendations on page #23 for quick and easy suspension geometry change.

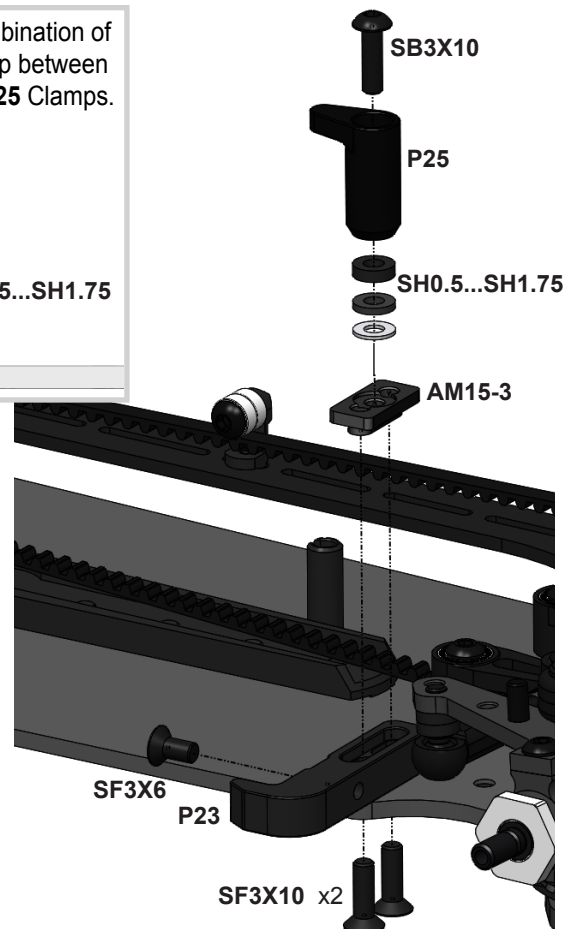
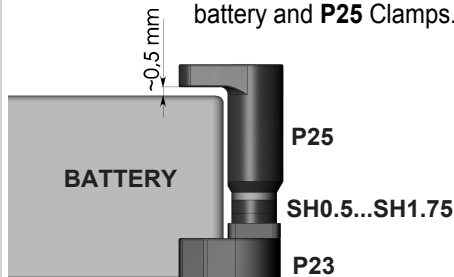




## STEP 27



**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>SH0.5 SH1.0 SH1.75</b> Spacers	



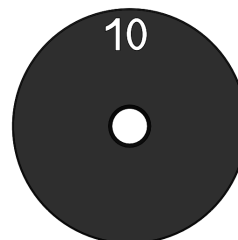
**ST110** and **ST105** Round Weights can be used as the inner holders for battery in case of you don't want to install **ST130** stiffener.

The screwing of **ST110** and **ST105** by chamfered side down almost removes an influence of the round weights on the lower deck flex.

**ST110** or **ST105**



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

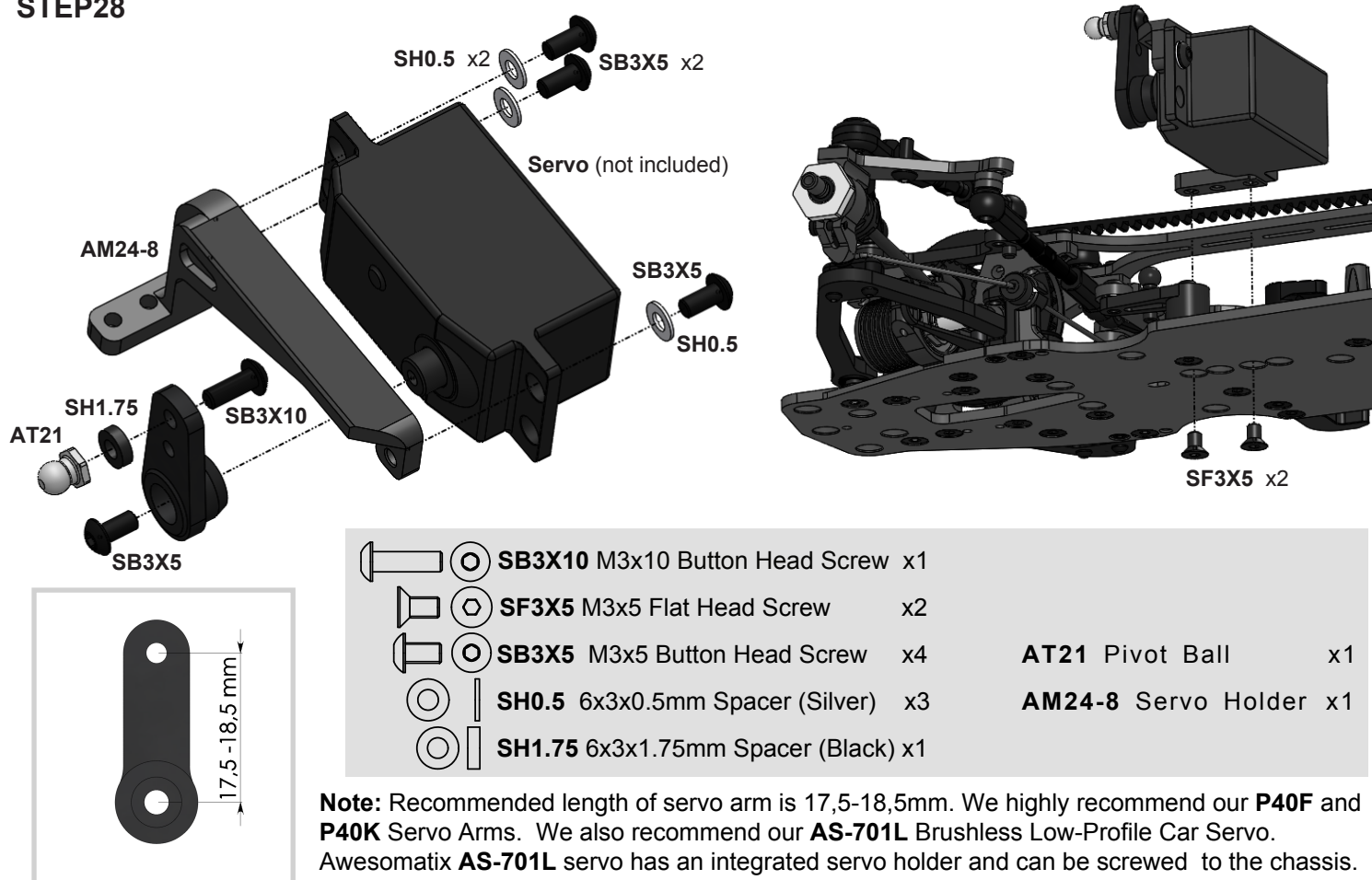


**ST110 10g**  
Round Weight

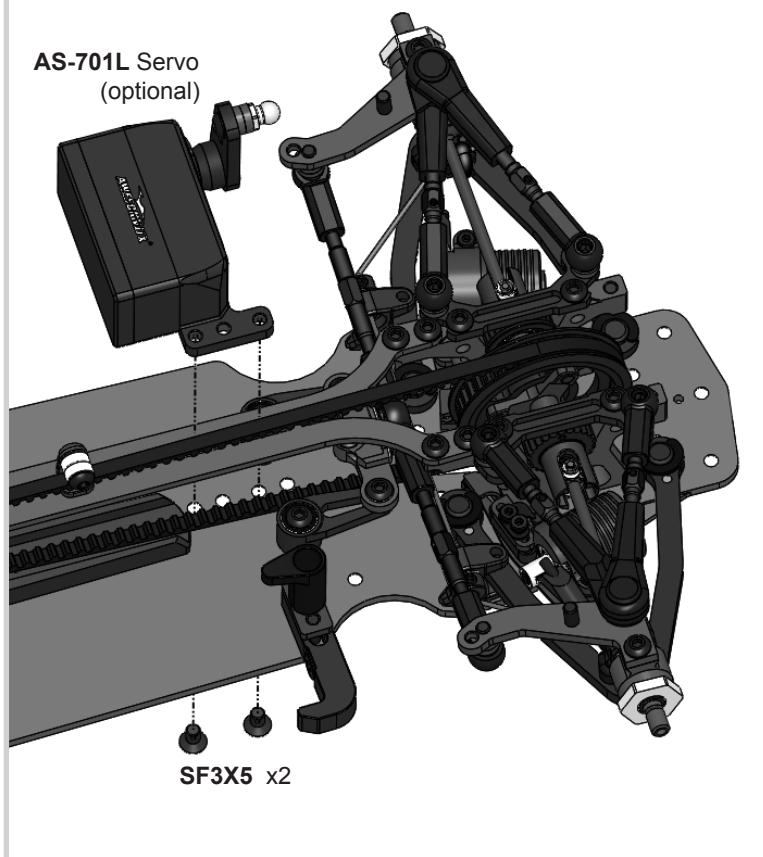


**ST105 5g**  
Round Weight

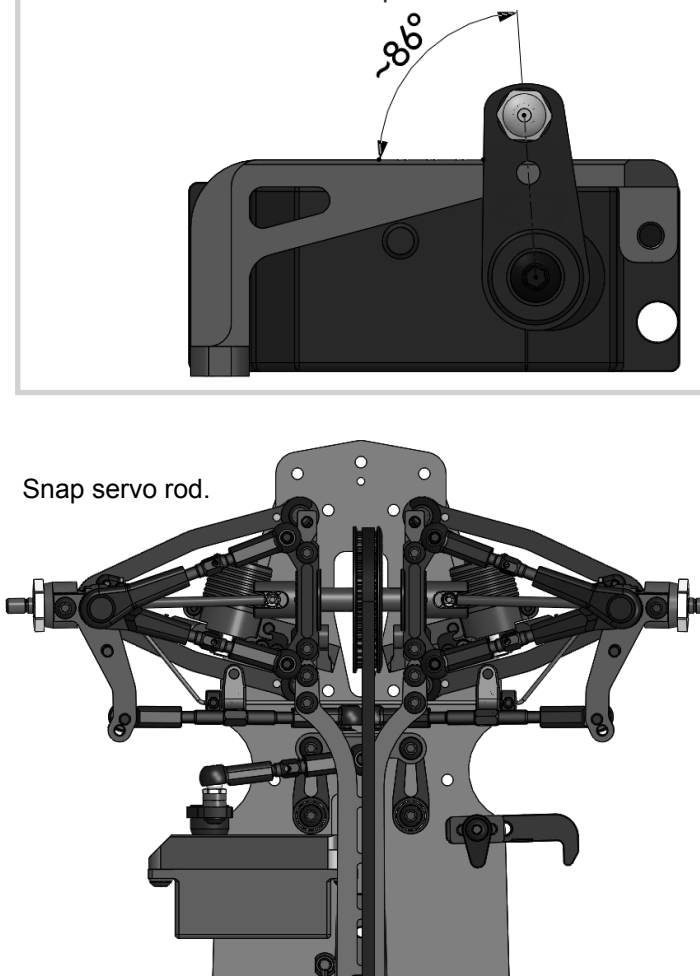
## STEP28



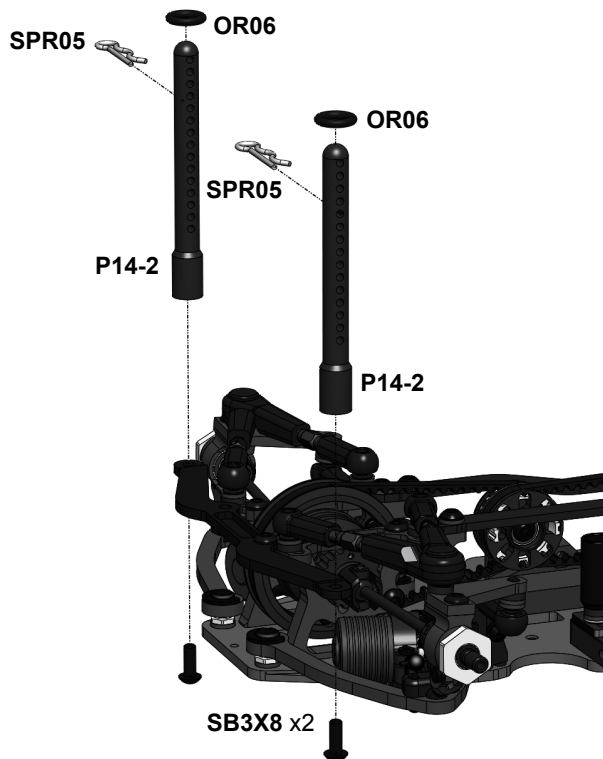
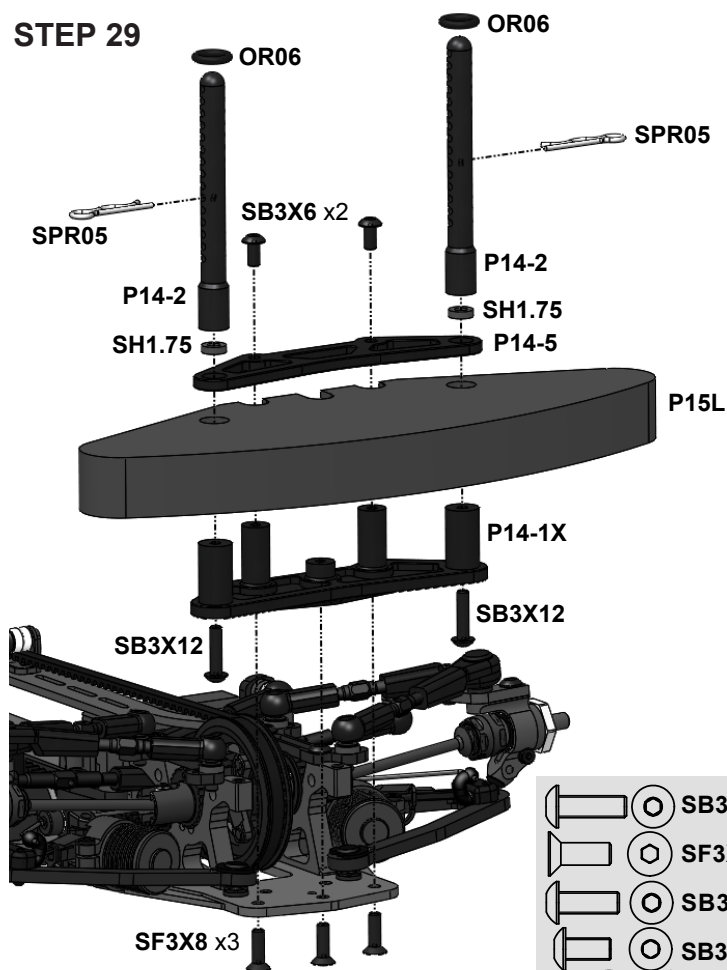
### Awesomatix **AS-701L** servo installation.



### Attention! Neutral servo arm position.

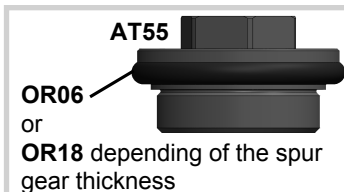
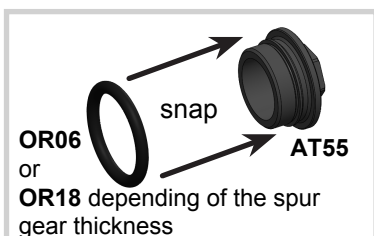
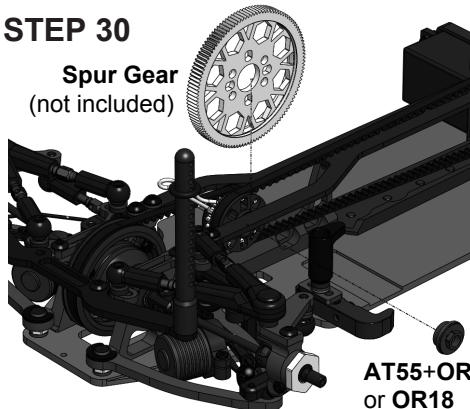


## STEP 29

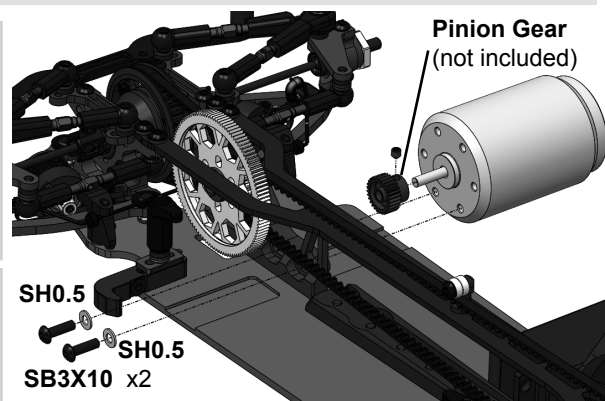


	<b>SB3X12</b> M3x12 Button Head Screw	x2	<b>P14-1X</b> Lower Bumper	x1
	<b>SF3X8</b> M3x8 Flat Head Screw	x3	<b>P14-2</b> Body Post	x4
	<b>SB3X8</b> M3x8 Button Head Screw	x2	<b>P14-5</b> Upper Bumper	x1
	<b>SB3X6</b> M3x6 Button Head Screw	x2	<b>P15L</b> Foam Bumper	x1
	<b>OR06</b> 5mm O-Ring	x4	<b>SPR05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

## STEP 30



**Attention!** Please use  $\leq 4,5\text{mm}$  thick spur gears with 2-2,6mm thickness of the center area.

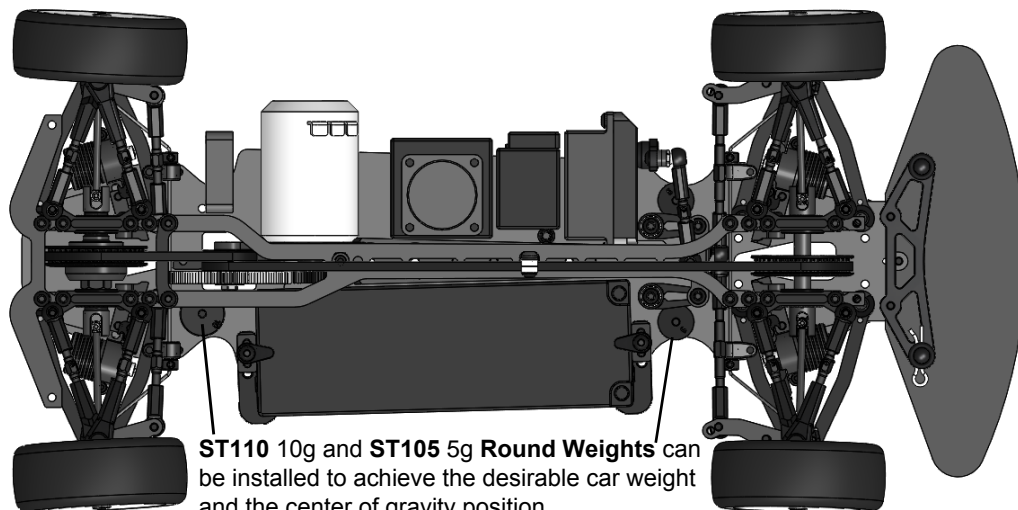


**Attention!** Please use pinion gears with thickness of the teethed area  $\leq 4,5\text{mm}$ .

## STEP 31 FINAL ASSEMBLY

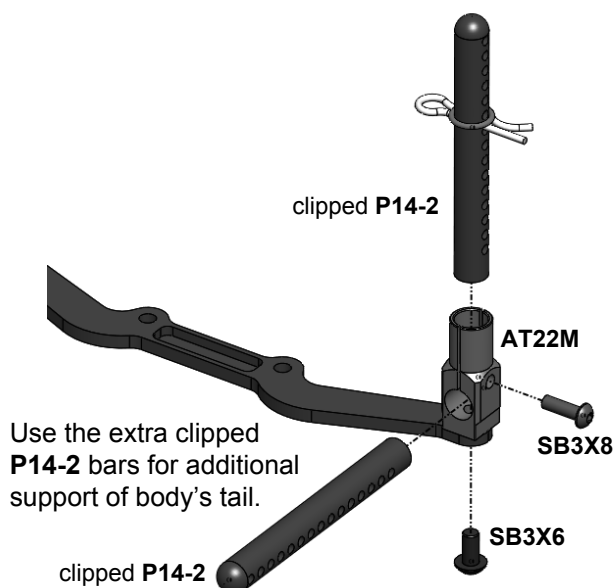
### Install:

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

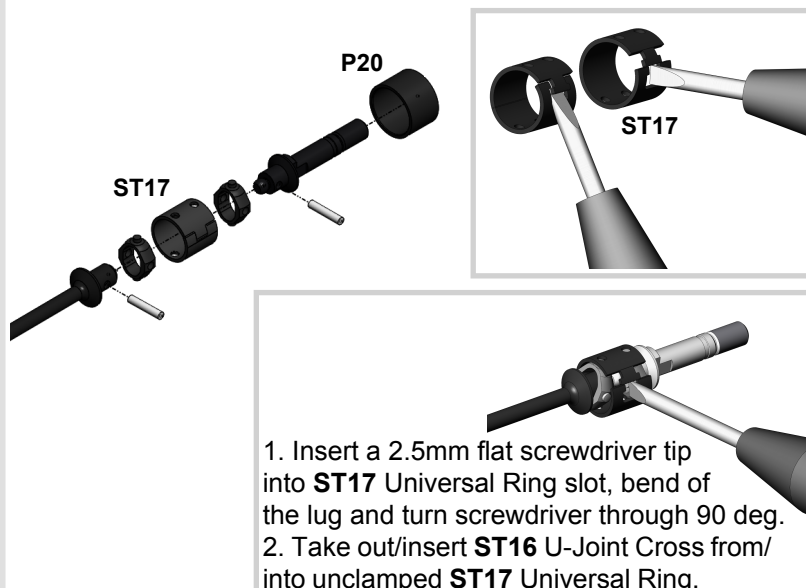


**ST110 10g and ST105 5g Round Weights** can be installed to achieve the desirable car weight and the center of gravity position.

### AT22M Rear Body Holder (optional)



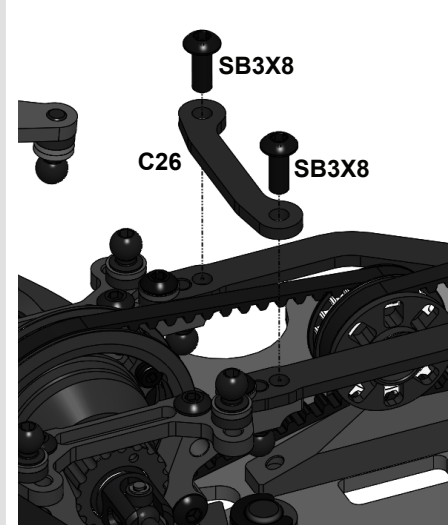
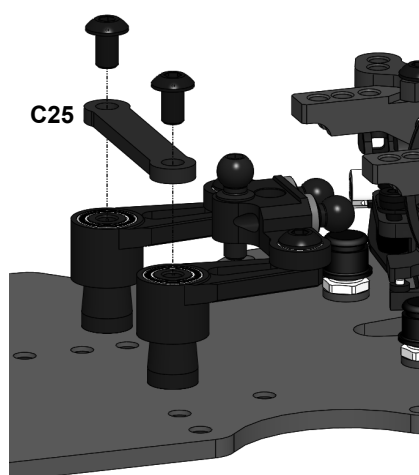
### ST17 and P20 Universal Rings (optional)



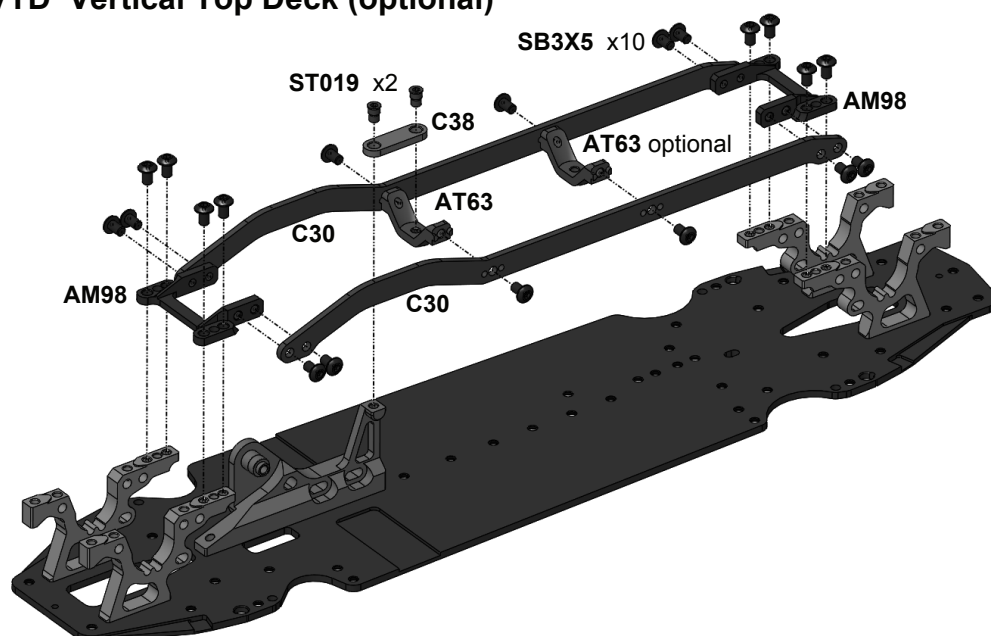
### Bellcrank Steering (optional)

### C25 Steering Stiffener (optional)

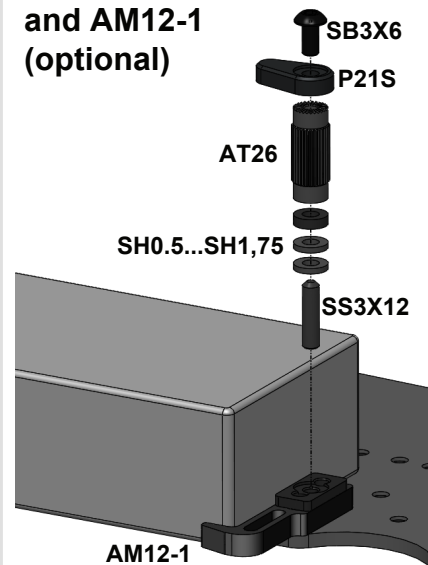
### Additional C26 Top Stiffener (optional)



### VTD Vertical Top Deck (optional)



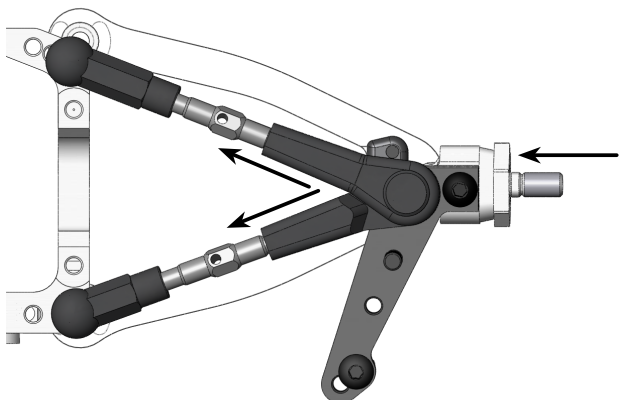
### BC1 Battery Clamp Set and AM12-1 (optional)



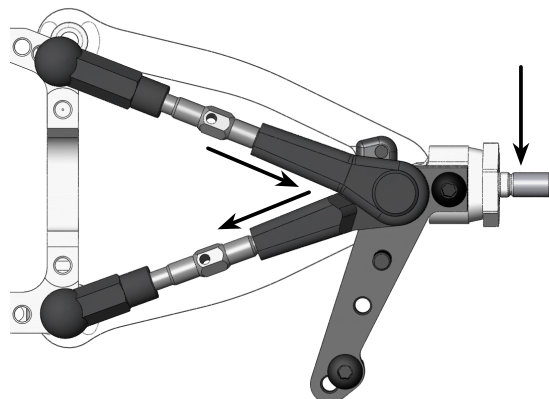


## SUSPENSION SETTING TECHNIQUE

**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.

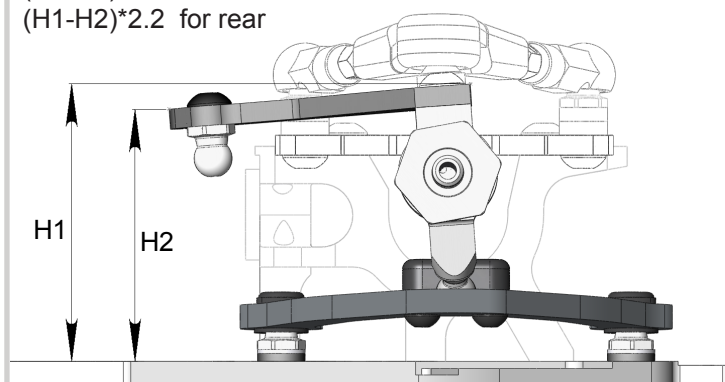


**Caster adjustment rule:** Simultaneous front upper rod 0.5mm elongation and rear upper rod 0.5mm shortening adds 2.5° of caster at constant camber.

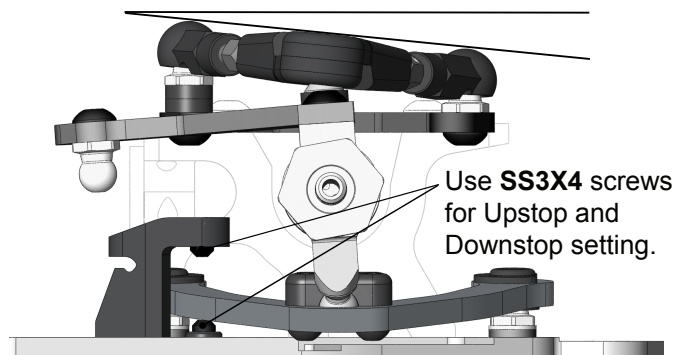


### Caster measuring:

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

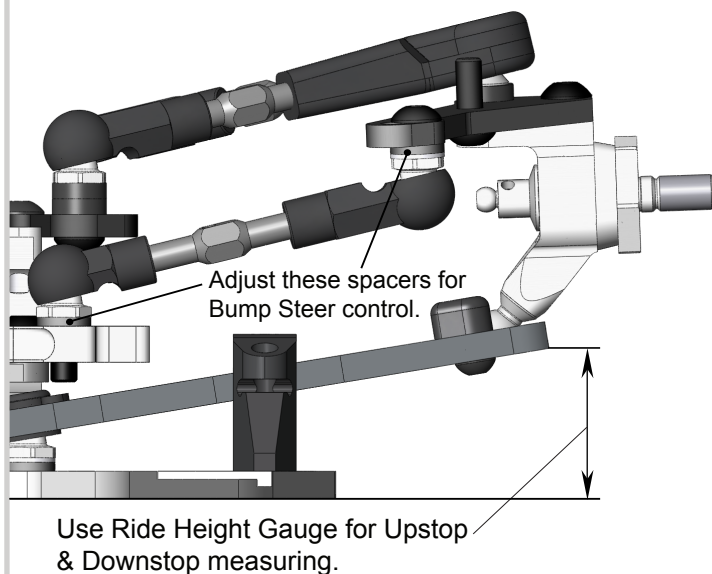


**Reactive Caster** setting is possible.



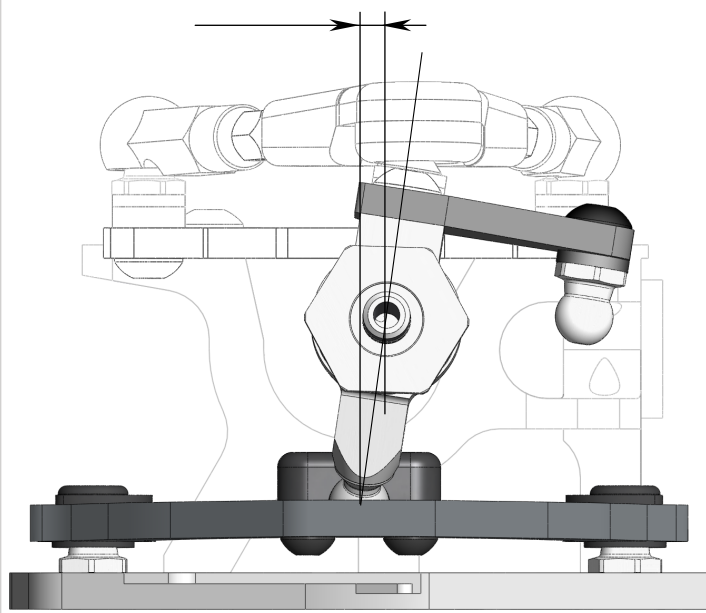
### Roll Center adjustment:

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.





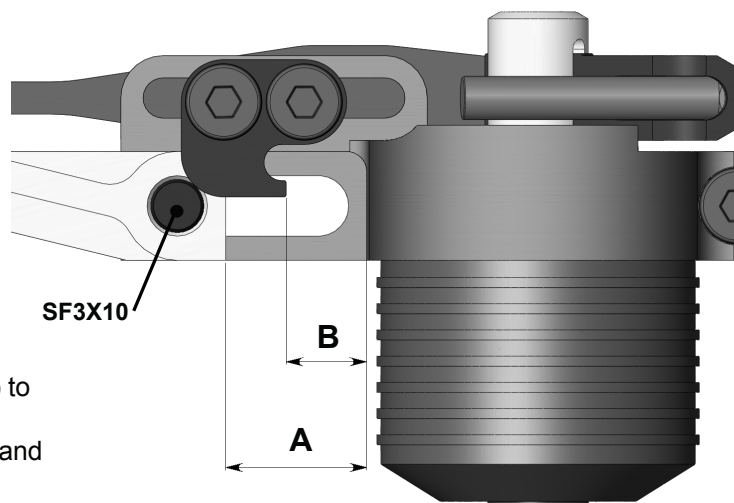
## SHOCK SETTING TECHNIQUE

**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 - 4.4mm. Use outer **SF3X10** Flat Head Screw to unlock Shock and to lock it at desirable position.

Decrease **B** distance (slide **P09** Shock Screw Holder outward) to increase Spring rate only at the fixed Damping rate value. Use **SRS** Spring Rating Screw to unlock Shock Screw Holder and to lock it at desirable position.

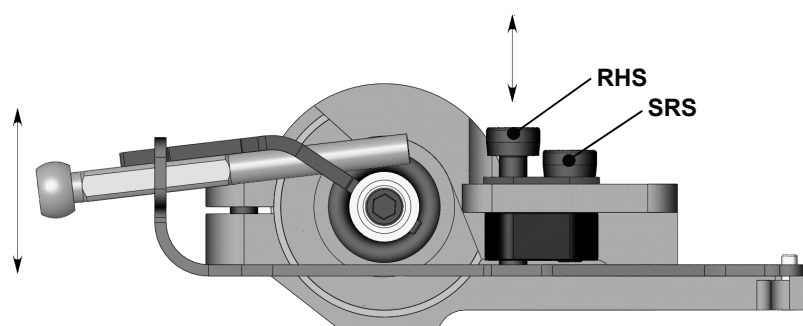


### 2. Shock Spring preload setting

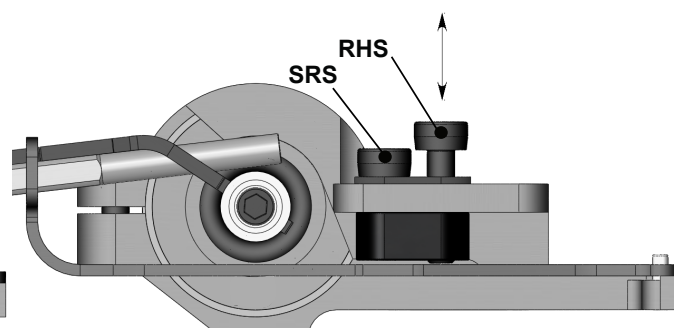
Turn IN (CW) **RHS** Screw to increase spring preload.  
Turn OUT (CCW) **RHS** Screw to decrease spring preload.  
Use Spring preload setting to adjust Ride Height value.

### 3. SRS/RHS Screws arrangements change

The reverse arrangement of these screws is possible also.

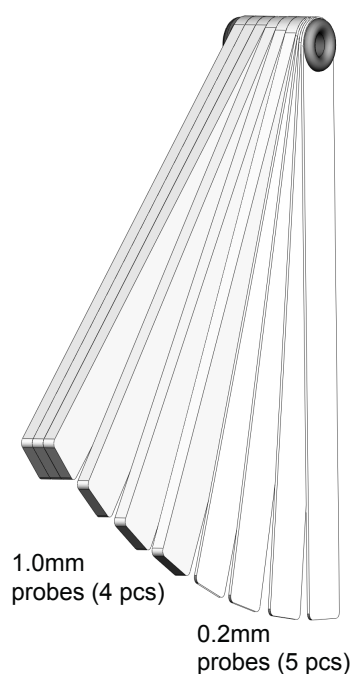


SRS/RHS Screws arrangement I



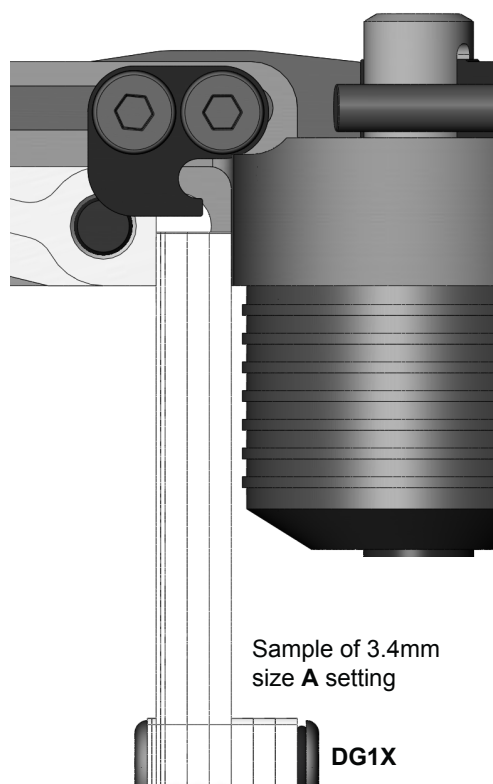
SRS/RHS Screws arrangement II

### 4. Using of DG1X Damper Gauge



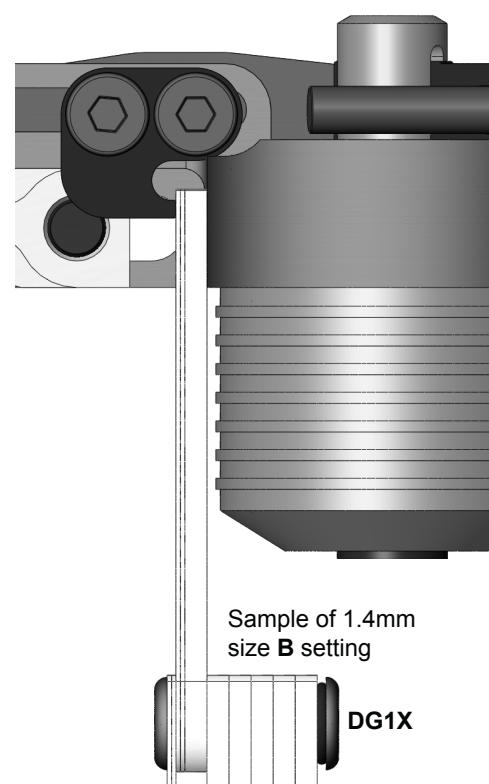
1.0mm  
probes (4 pcs)

0.2mm  
probes (5 pcs)



Sample of 3.4mm  
size **A** setting

DG1X

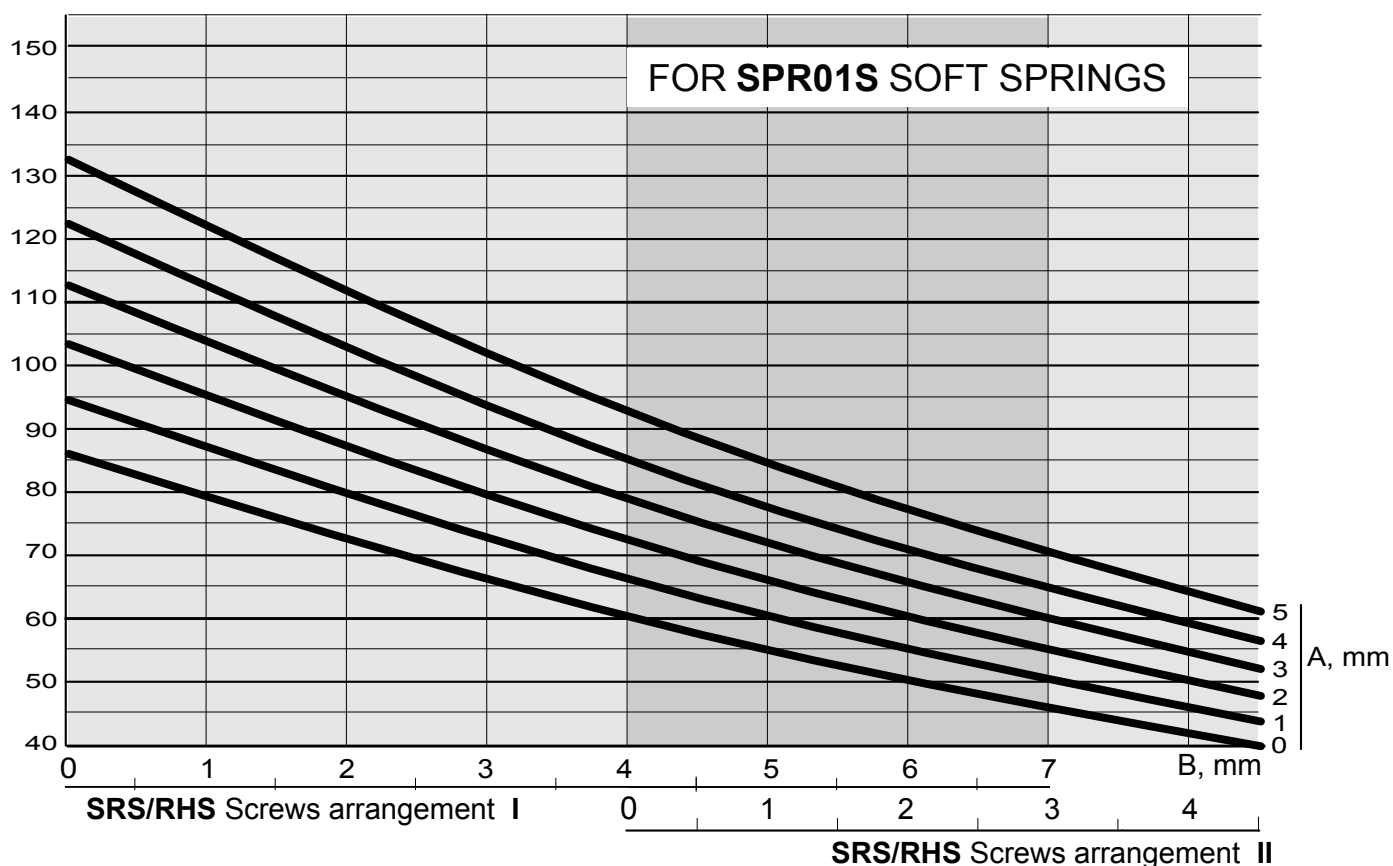
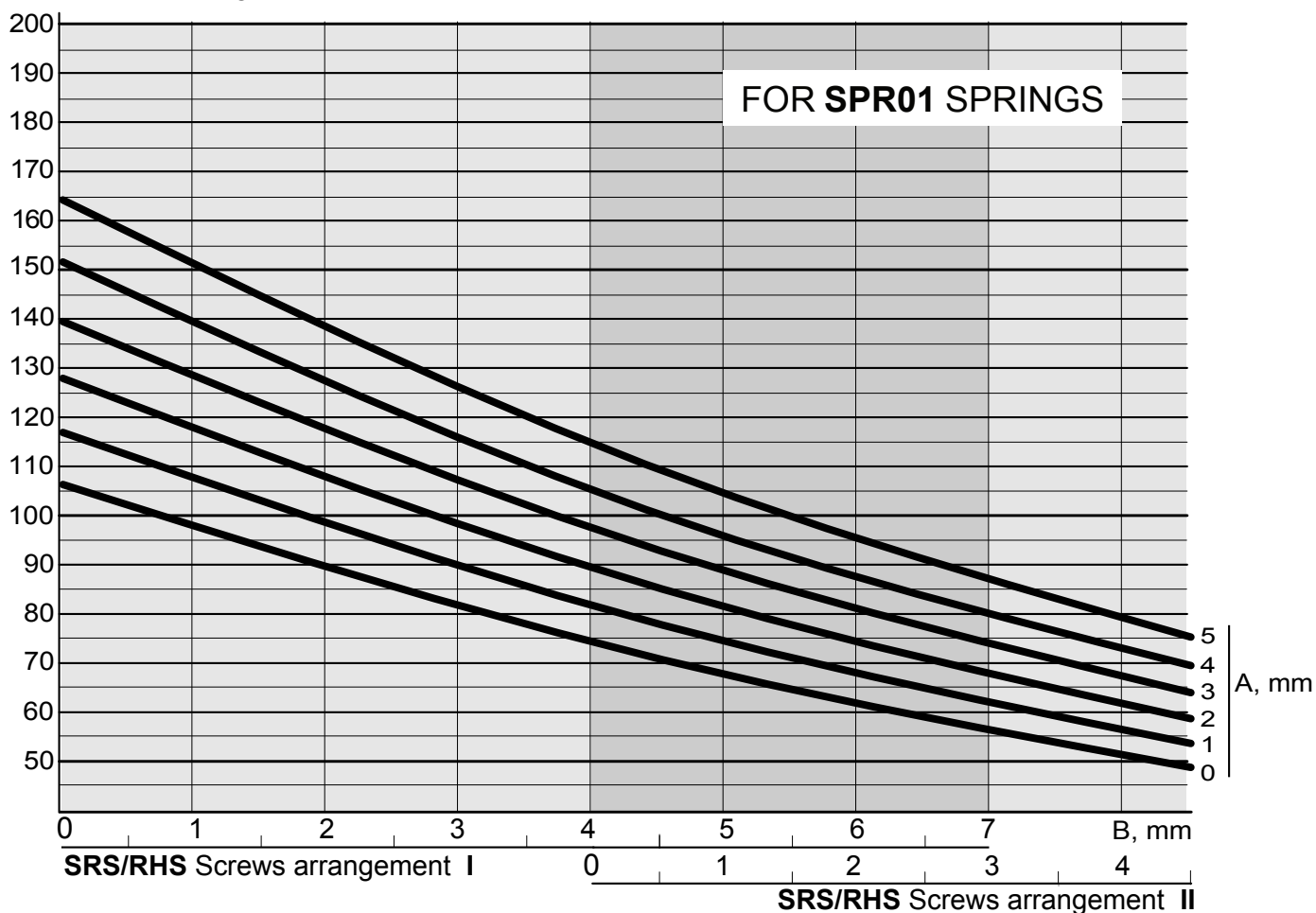


Sample of 1.4mm  
size **B** setting

DG1X

## 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)

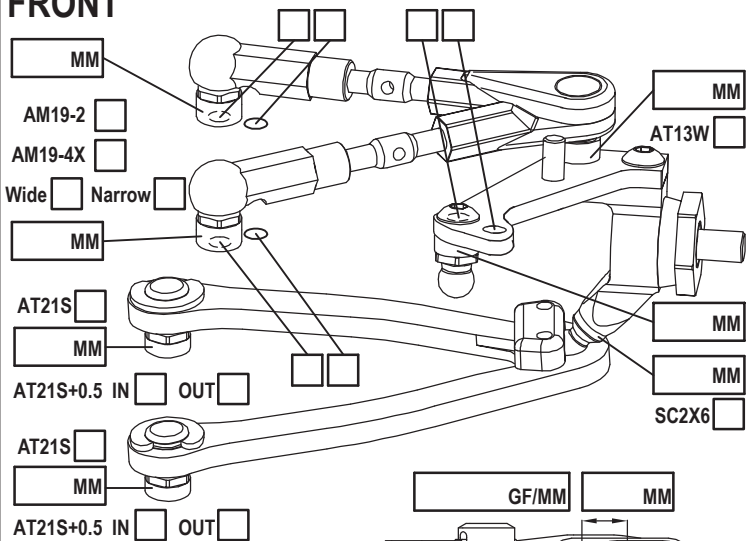




NAME \_\_\_\_\_  
 COUNTRY \_\_\_\_\_  
 RACE \_\_\_\_\_  
 TRACK \_\_\_\_\_

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+0.5 ☐ ☐

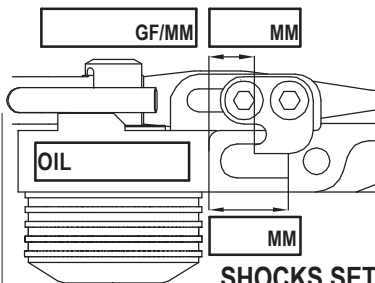
STEER. ARM AM14LS ☐ ☐

WHEEL SPACER / MM \_\_\_\_\_

FRONT DRIVE SPOOL ☐ GB2B ☐ LOW ☐ HIGH ☐

DIFF. OIL \_\_\_\_\_ DIFF WASHERS \_\_\_\_\_

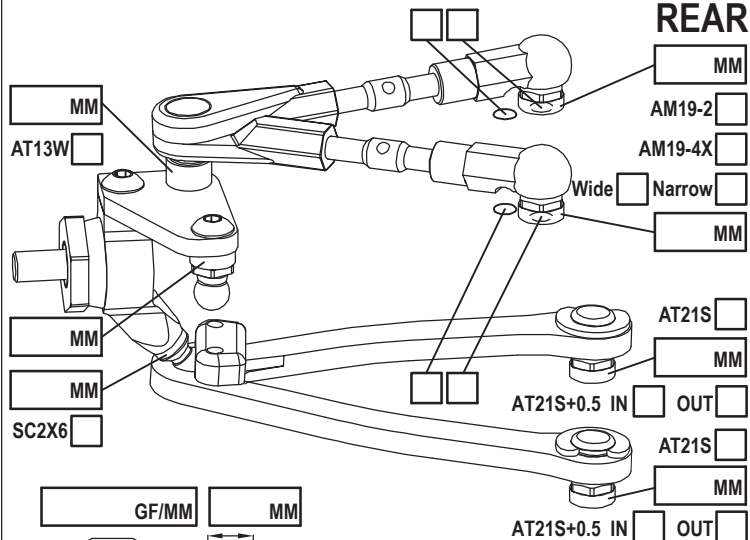
DOGBONE DRIVE ST02 ☐ WHEELHUB AM06WL ☐ ☐



### SHOCKS SET

ROTOR STD ☐ ☐  
 SPRING STD ☐ S ☐  
 DAMPER D2.2 ☐ ☐  
 SRS/RHS ARR. I ☐ II ☐  
 PSS SETUP MM A ☐ B ☐

### REAR



CAMBER ANGLE / ° \_\_\_\_\_

CASTER ANGLE / ° \_\_\_\_\_

TOE ANGLE / ° \_\_\_\_\_

RIDE HEIGHT / MM \_\_\_\_\_

DOWNSTOP / MM \_\_\_\_\_

UPWNSTOP / MM \_\_\_\_\_

STABILIZER Ø / MM \_\_\_\_\_

LOW ARM C04M1+0.5 ☐ ☐

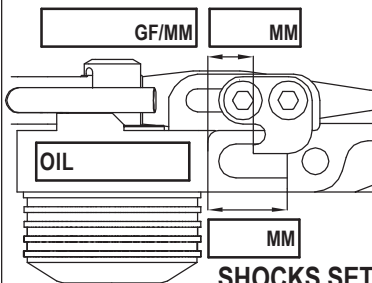
STEER. ARM AM23 ☐ ☐

WHEEL SPACER / MM \_\_\_\_\_

REAR DRIVE GB2B ☐ LOW ☐ HIGH ☐

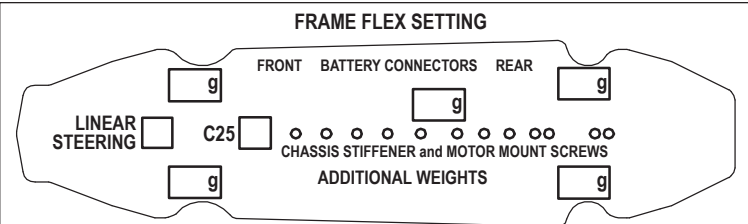
DIFF. OIL \_\_\_\_\_ DIFF WASHERS \_\_\_\_\_

DOGBONE DRIVE EVD ☐ WHEELHUB AM06WL ☐ ☐



### SHOCKS SET

ROTOR STD ☐ ☐  
 SPRING STD ☐ S ☐  
 DAMPER D2.2 ☐ ☐  
 SRS/RHS ARR. I ☐ II ☐  
 PSS SETUP MM A ☐ B ☐

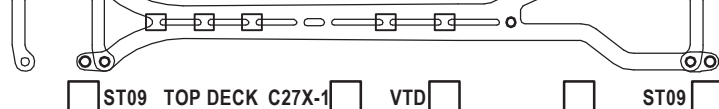


### LOWER DECK

CHASSIS STIFFENER ST135 ☐ ST165 ☐

☐ C26 ☐ SHIM UNDER STIFFNER: ST55 ☐ C26 ☐

### TOP DECK CUTS



STD ☐ AM98 ☐ AT63 ☐ AT63 ☐ C38 ☐ AM98 ☐ CUT ☐

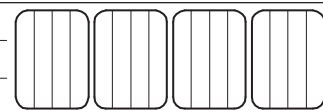
### TIRES

INSERTS \_\_\_\_\_

WHEELS \_\_\_\_\_

ADDITIVE \_\_\_\_\_

NOTES: \_\_\_\_\_



TIME - FR \_\_\_\_\_ RR \_\_\_\_\_

MOTOR LATERAL SHIFT / MM \_\_\_\_\_

MOTOR \_\_\_\_\_

SPUR PINION RATIO \_\_\_\_\_

BODY \_\_\_\_\_

WING \_\_\_\_\_

ESC \_\_\_\_\_

ESC SETTING \_\_\_\_\_

BEST LAPTIME \_\_\_\_\_

ACKERMANN SHIMS / MM \_\_\_\_\_

SERVO \_\_\_\_\_

STEER TRAVEL IN \_\_\_\_\_ OUT \_\_\_\_\_

BATTERY \_\_\_\_\_

RECEIVER \_\_\_\_\_

RADIO \_\_\_\_\_

QUALIF./FINAL POSITION \_\_\_\_\_ /

COMMENTS:

Editable setup sheet can be downloaded from: [http://site.petitrc.com/reglages/awesomatix/setupa800/A800XEvo\\_EditableSetupSheet.pdf](http://site.petitrc.com/reglages/awesomatix/setupa800/A800XEvo_EditableSetupSheet.pdf)

## Standard Spare Parts

Parts#	Description
AM05C	Rear Holder
AM06WL	Steering Block
AM14LS	Steering Arm
AM15-3	Battery Nut
AM17XL	Damper Holder L
AM17XR	Damper Holder R
AM19-2	Upper Arm Holder
AM23-1	Rear Steering Arm
AM24-8	Central Servo Holder
AM74	Steering Bellcrank
AM77X3	Motor Mount
AM78X1	Bulkhead
AM79A	Steering Rack
AM88R	Shock Holder R
AM88L	Shock Holder L
AT03BX	Spool Axle
AT13	Wheel Hex
AT14	Turnbuckle
AT21	Pivot Ball
AT21S	Pivot Ball Short
AT25	Turnbuckle Long
AT40-1	Damper Cup
AT41-2	Damper Vane
AT42-1	Damper Case
AT52A	Bellcrank Post
AT55	Spur Nut
AT62	Spur Holder
AT67	Pulley Washer
AT120	20T Alloy Pulley
AT123B	GD2B Case1
AT124B	GD2B Case2
AT142	Sway Bar Stopper
DT08	Pulley Flange
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
ST55	Top Deck Bushing
ST105	5g Round Weight
ST110	10g Round Weight
ST135	35g Chassis Stiffener
G07	GD2 Satellite Gear
G08	GD2 Bevel Gear
D2.2	D2.2 Damper
P01	Ball Joint-1
P02	Ball Joint-2
P03	Arm Ball Cap
P04	Arm Hasp
P05	Sway Bar Joint
P07	Arm Clip
P09X	Shock Screw Holder
P12X	Sway Bar Holder
P13-4	Ball End
P14	Bumper Set

Parts#	Description
P15L	Lightweight Foam Bumper
P16	Lock Ring
P23	Outer Battery Holder
P25	Battery Clamp
P39	GD2 Cross Pin
P45R	Damper Piston
P46R	Diff Piston
P56	Antenna Holder
P58	Belt Tensioner
P110	Bearing Housing
P138	38T Pulley
P138S	Spool 38T Pulley
C01B-X-LA	Lower Deck Carbon
C01B-XA-LA	Lower Deck Alloy
C01B-XAH-LA	Lower Deck Alloy Hard
C04M1+0.5	Suspension Arm
C26	Top Stiffener
C27X1	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
OR13	1x13 mm O-ring
OR05M	GD O-Ring Medium
OR06	5.5mm O-RING
OR155	Damper O-Ring
OR18	1x8mm O-ring
B106RS	MR106RS Bearing
B85	MR85 Bearing
B84SS	MR84SS Bearing
B63SS	MR63ZZ Bearing
SRS	Spring Rating Screw
RHS	Ride Height Screw
SC2X4	M2x4 Cap Head Screw
SC2X6	M2x6 Cap Head Screw
SB2.5X8	M2.5x8 Button Head Screw
SS3X3	M3x3 Set Screw
SS3X3-914	M3x3 Set Screw DIN914
SS3X5	M3x5 Set Screw
SB3X5	M3x5 Button Head Screw
SB3X6	M3x6 Button Head Screw
SB3X8	M3x8 Button Head Screw
SB3X10	M3x10 Button Head Screw
SF3X5	M3x5 Flat Head Screw
SF3X6	M3x6 Flat Head Screw
SF3X8	M3x8 Flat Head Screw
SF3X10	M3x10 Flat Head Screw
BEL189B	Belt 189 mm Bando
BEL513B	Belt 513 mm Bando
DG1X	Damper Gauge Set
INS-A800EVO	A800X EVO Manual
STS-A800X	A800X Stickers Sheet

## Optional Parts

Parts#	Description
C04M1	Suspension Arm
C04M1+1.5	Suspension Arm Long
C04AL1+0.5	Alloy Suspension Arm
C04AL1+1.5	Alloy Suspension Arm Long
C04M1+8.0	Suspension Arm Long
C04M1+9.0	Suspension Arm Long
C04AL+8.0	Alloy Suspension Arm Long
C04AL+9.0	Alloy Suspension Arm Long
C07A	Carbon bumper
C25	Steering Stiffener
ST09	Upper Collar
ST17	Universal Ring
ST24M	4,8x8mm Ball Stud
ST24L	4.8x10mm Ball Stud
ST165	65g Chassis Stiffener
AT03B	Spool Axle
AT06	Alloy Antenna Holder
AT13W	Wheel Hex Wide
AT15	Bearing Spacer
AT18	Steering Limiter
AT21S0.5	Offset Pivot Ball Short
AT21ST-A	Pivot Ball Steel Short
AT22M	Rear Body Holder
AT58	Alloy Belt Tensioner
AT78	Damper Piston
AM06M	Steering Block
AM12-1	Alloy Battery Holder
AM14A	Steering Arm
AM19-4X	Upper Arm Holder
AM87	Bumper Brace
AM105	MMCX Rear Stiffener
DT10-2-1	Bearing Housing
DT10-3	Bearing Housing
OR152S	U-Ring
OR155E	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
RHS-P	Precise Ride Height Screw
SB3X5AL	M3x5 Alloy Button Head Screw
SH3X5X0.1	3x5x0.1mm Shim
SH3X5X0.5	3x5x0.5mm Shim
SPR01-98	Shock Spring 98 Deg
SPR01S	Shock Spring Soft
SPR01S-98	Shock Spring Soft 98 Deg
SPR08	Body Support Set
SS3X4	M3x4 Set Screw
SWB13	Sway Bar 1.3mm
T01	5.5/4 mm Wrench
D2.2-S	Damper Set
FCB	Flexible Caster Block Set
BC1	Battery Clamp Set
ABS	Adjustable Body Shift Set
VTD	Vertical Top Deck Set
LS2	Linear Steering Set
AS-701L	Brushless Low-Profile Servo
AS-701L-GS	Gear Set for AS701L Servo
DL	Diagonal Link Set
DL-A	Diagonal Link Set A
MMCX-2	Middle Motor Conversion Set
C04M1-LA	Long Arm Set
VTD MM	MMCX Vertical Top Deck Set





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