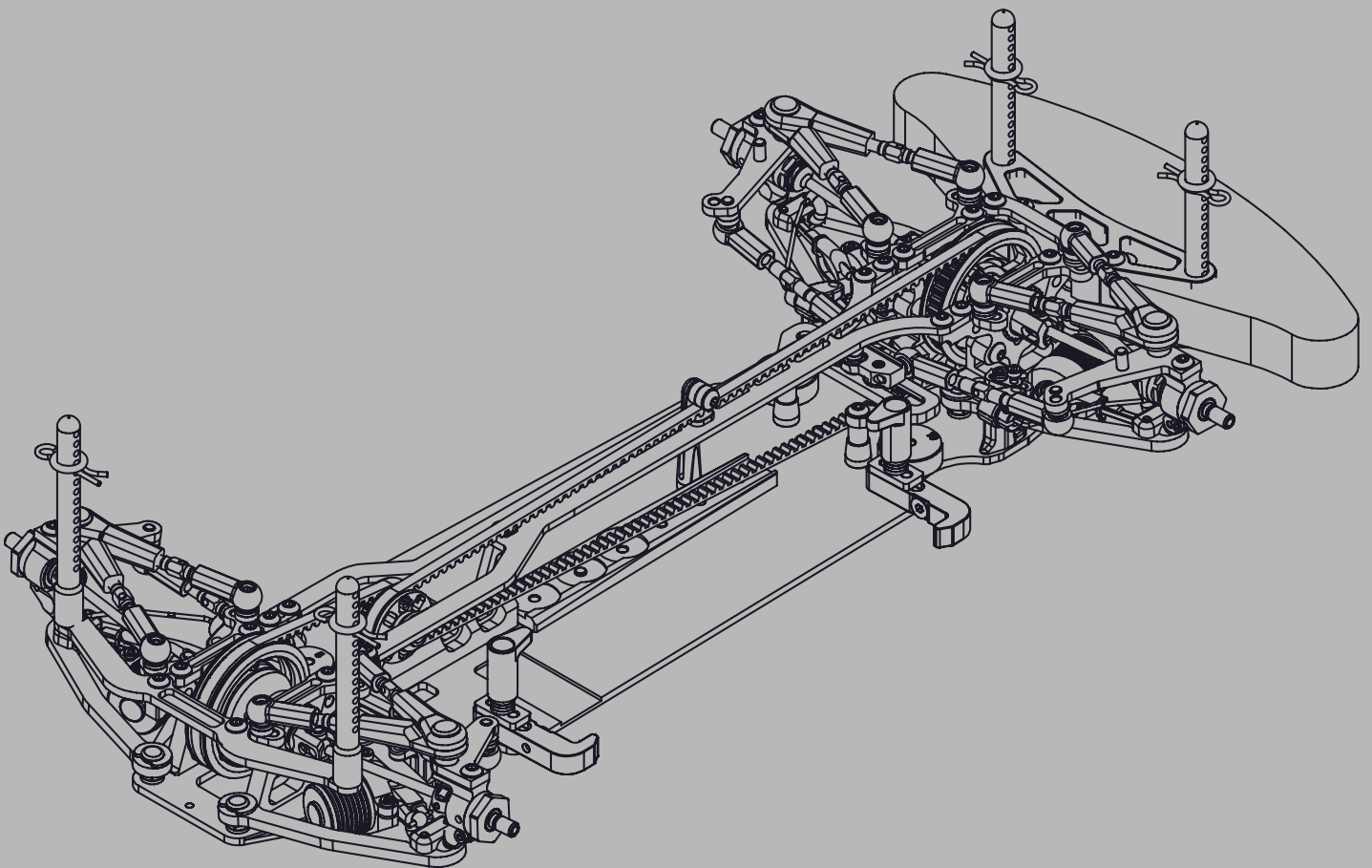


# A800X

**1/10-SCALE TOURING CAR**



## INSTRUCTION MANUAL

## INTRODUCTION

Congratulations on purchasing your Awesomatix car!

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

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

## BEFORE YOU START

The A800X 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 car you must not begin assembly. Your A800X 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 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 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 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>.

## 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.

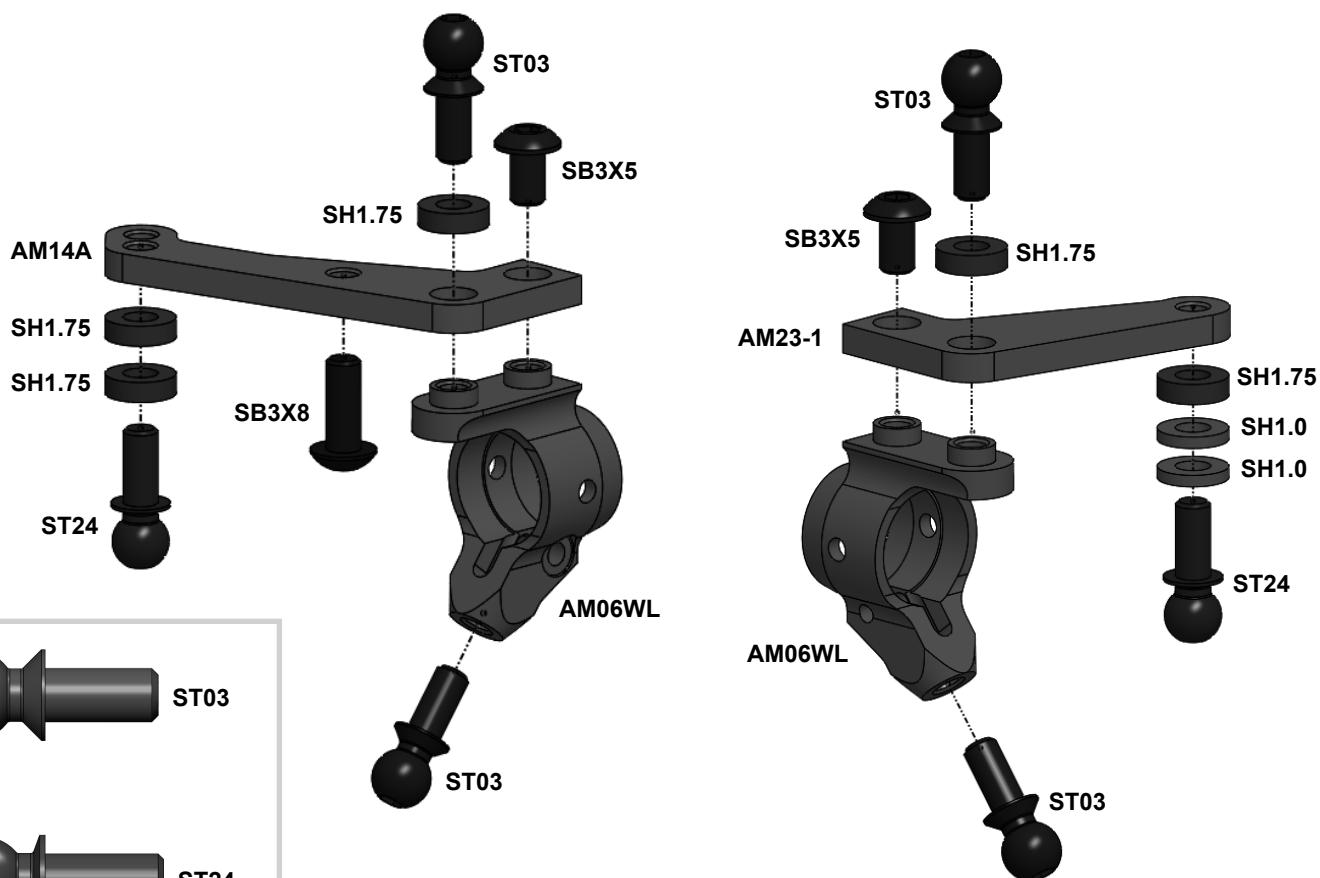
## EQUIPMENT RECOMMENDED (NOT INCLUDED)

- 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
- M4mm Wheel Nuts
- Touring Car Wheels, Tires, Inserts

## TOOLS RECOMMENDED (NOT INCLUDED)

- 1.5mm, 2.0mm Hex Driver
- 2.0mm Ball End Hex Driver
- 5.5mm, 7mm, 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

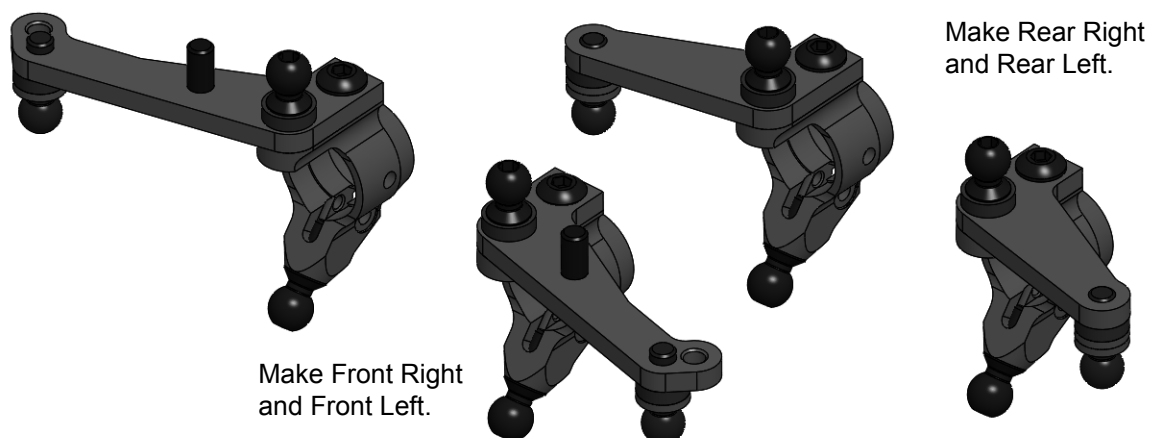


**Note:** The last turns of the lower **ST03** Ball Studs and **SB3X5** screws can be tight. Screw them with force.

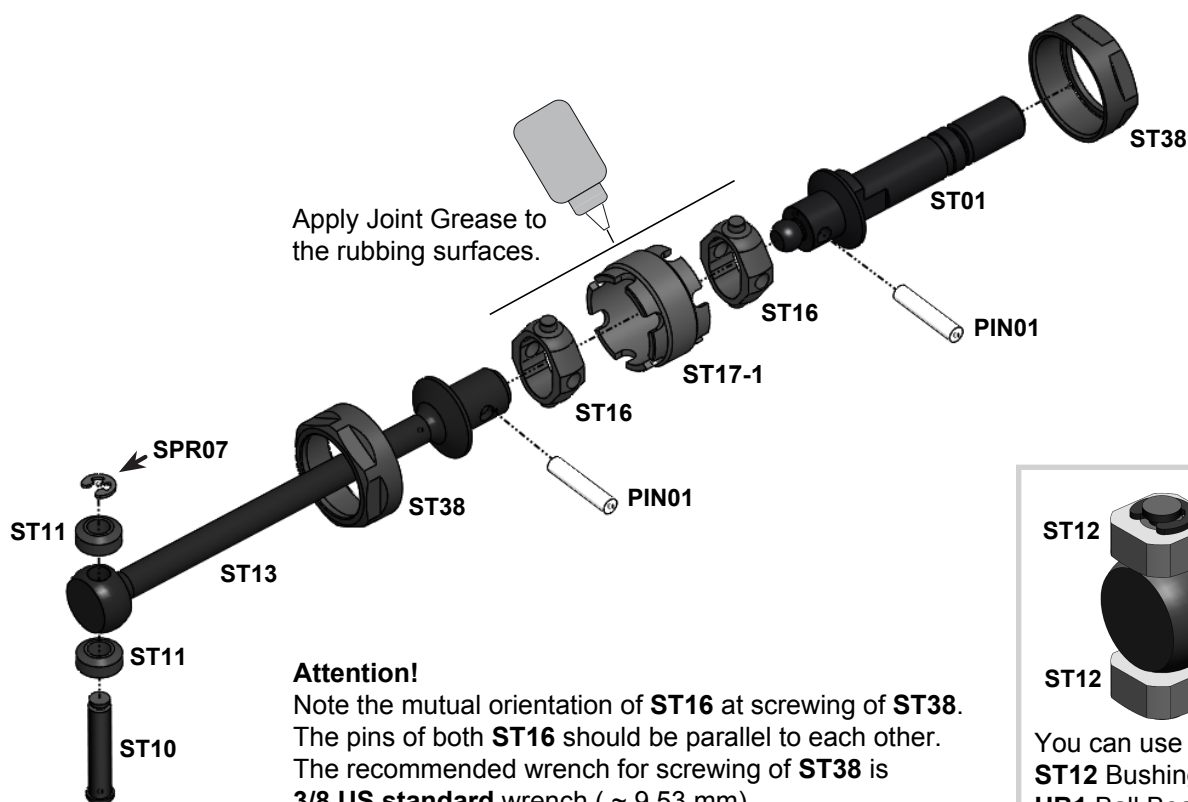
		<b>SB3X5</b> M3x5 Button Head Screw	x4	<b>ST03</b> Ball Stud	x8
		<b>SB3X8</b> M3x8 Button Head Screw	x2	<b>AM06WL</b> Steering Block	x4
				<b>AM14A</b> Steering Arm	x2
		<b>SH1.0</b> 6x3x1mm Spacer (Gray)	x4	<b>AM23-1</b> Rear Steering Arm	x2
		<b>SH1.75</b> 6x3x1.75mm Spacer (Black)	x10	<b>ST24</b> 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



		<b>PIN01</b> 1.5x7.8 Pin	x4	<b>ST01</b> Front Axle	x2
		<b>ST10</b> 2.0mm Pin	x2	<b>ST16</b> U-Joint Cross	x4
		<b>SPR07</b> E-Ring	x2	<b>ST17-1</b> Universal Ring	x2
	◎	<b>ST11</b> Bushing R	x4	<b>ST13</b> Front Universal Bone	x2
				<b>ST38</b> Universals Nut	x2

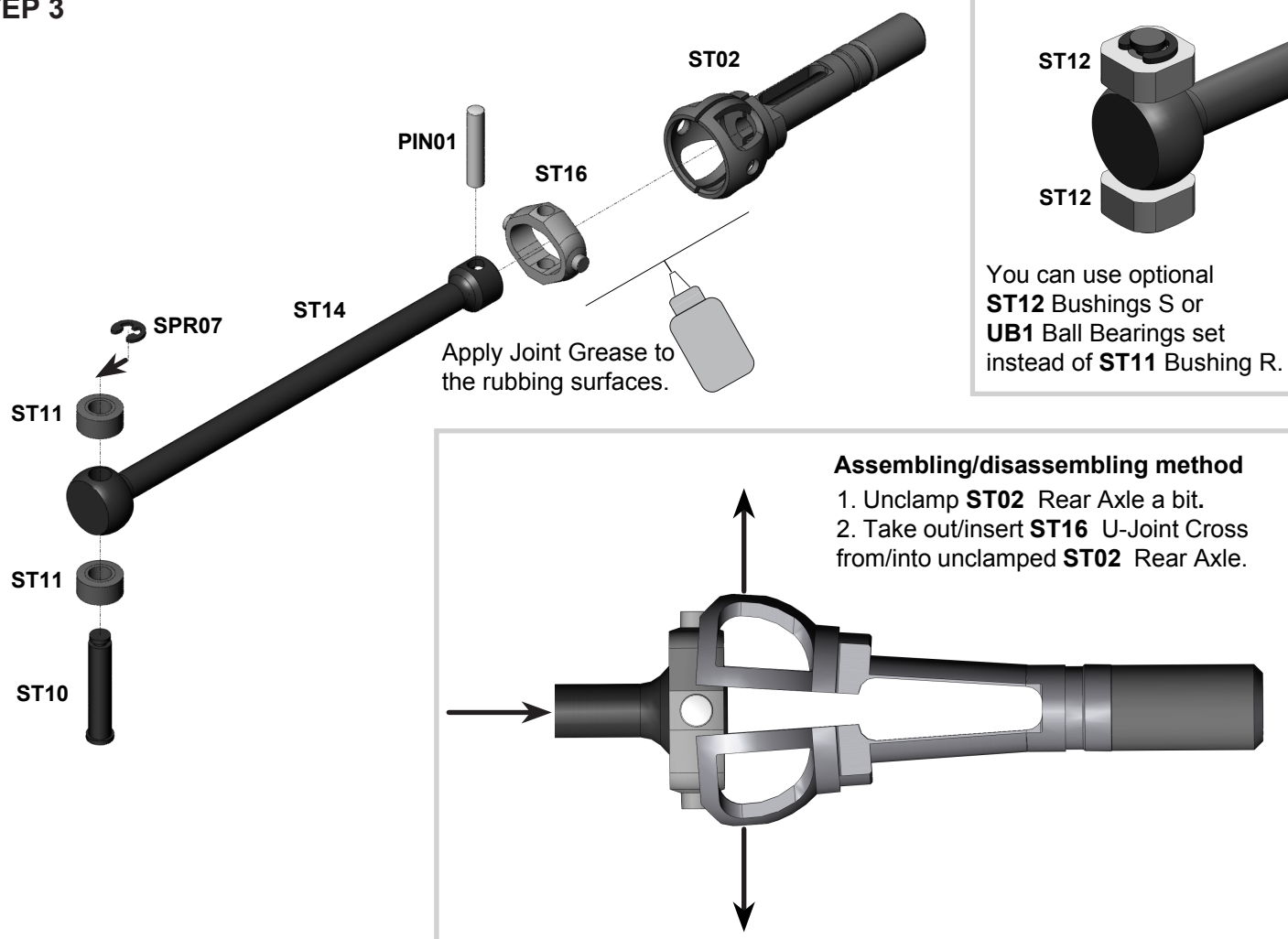
## STEP 2 FINISHED



Make 2 Front Universals.



## STEP 3



	<b>PIN01</b> 1.5x7.8 Pin	x2	<b>ST02</b> Rear Axle	x2
	<b>ST10</b> 2.0mm Pin	x2	<b>ST16</b> U-Joint Cross	x2
	<b>SPR07</b> E-Ring	x2	<b>ST14</b> Rear Universal Bone	x2
	<b>ST11</b> Bushing R	x4	<b>P08</b> C-Drive (optional)	x2

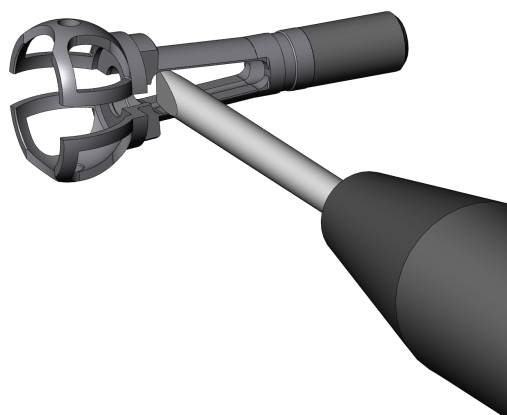
## STEP 3 FINISHED

Make 2 Rear Universals.

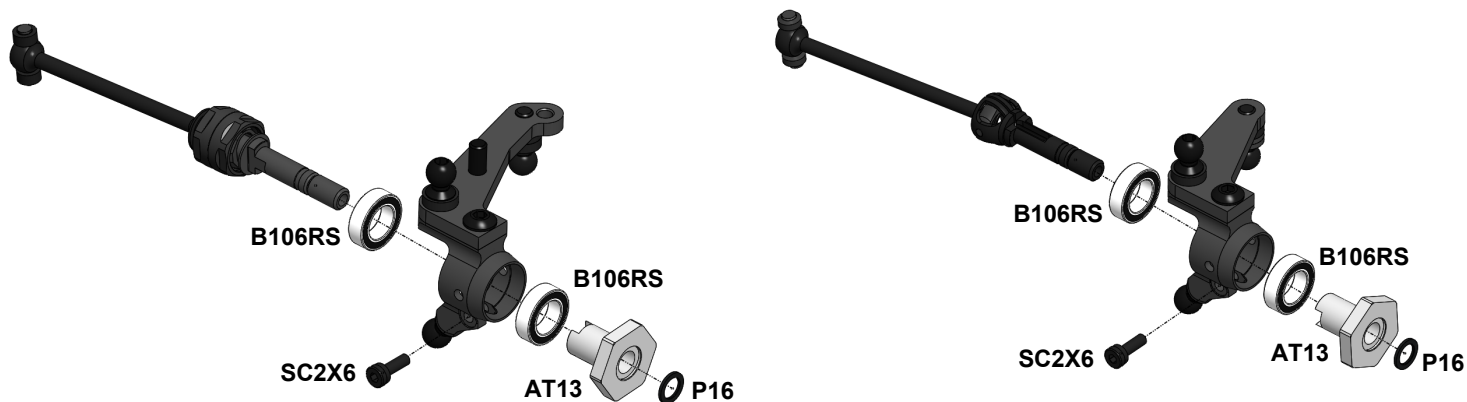





### Tip:

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

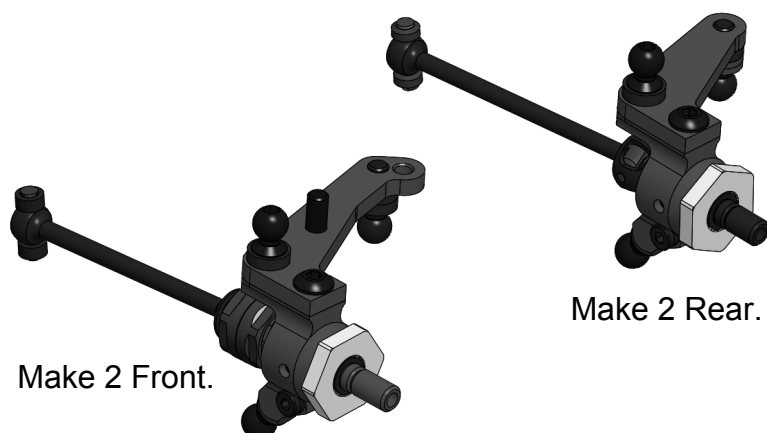


## STEP 4

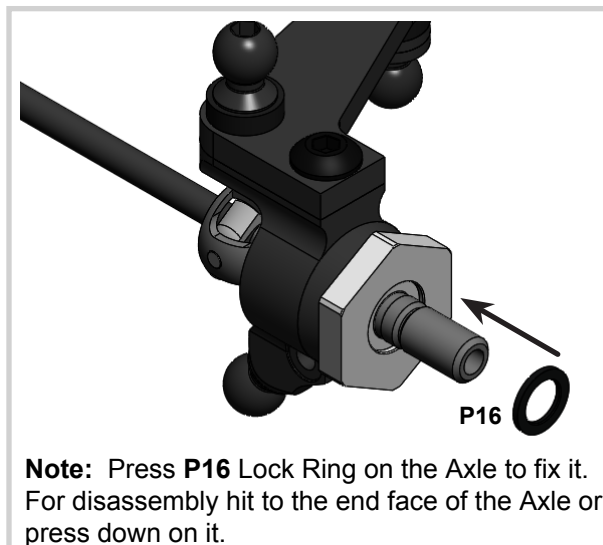


	<b>B106RS</b> MR106RS Bearing	x8	<b>AT13</b> Wheel Hex	x4
	<b>SC2X6</b> M2x6 Cap Head Screw	x4		
	<b>P16</b> Lock Ring	x4		




## STEP 4 FINISHED

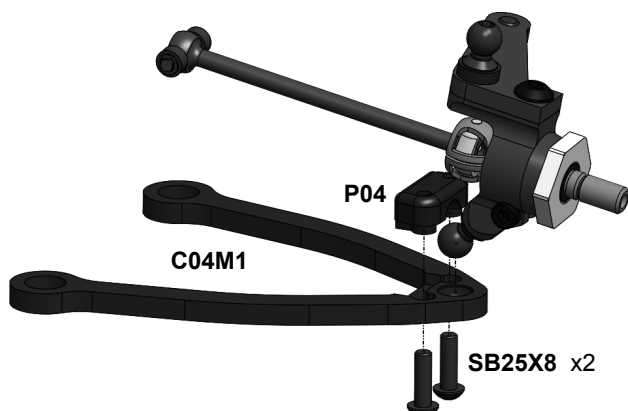


**Note:** Rear Universals may be a bit tight at this stage. But don't worry as the Rear Universals take its true position after the wheels mounting.



## STEP 5

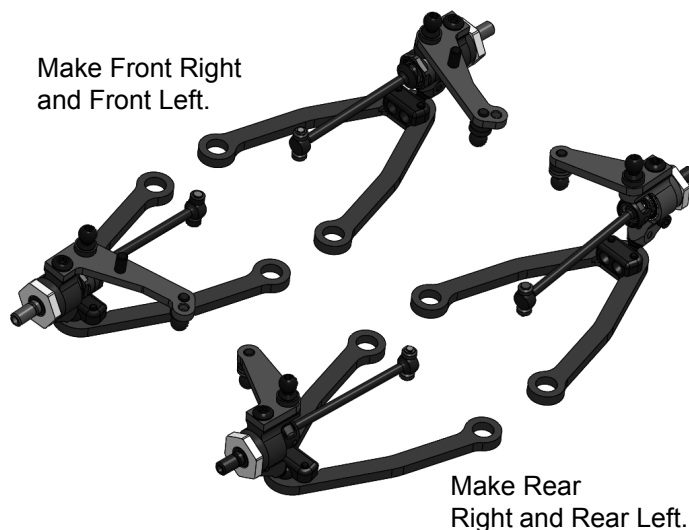
	<b>SB25X8</b> M2.5x8 Button Head Screw	x8
	<b>C04M1</b> Suspension Arm	x4
	<b>P04</b> Arm Hasp	x4



**Note:**  
**P04** have the tight fit in the **C04M1** 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.

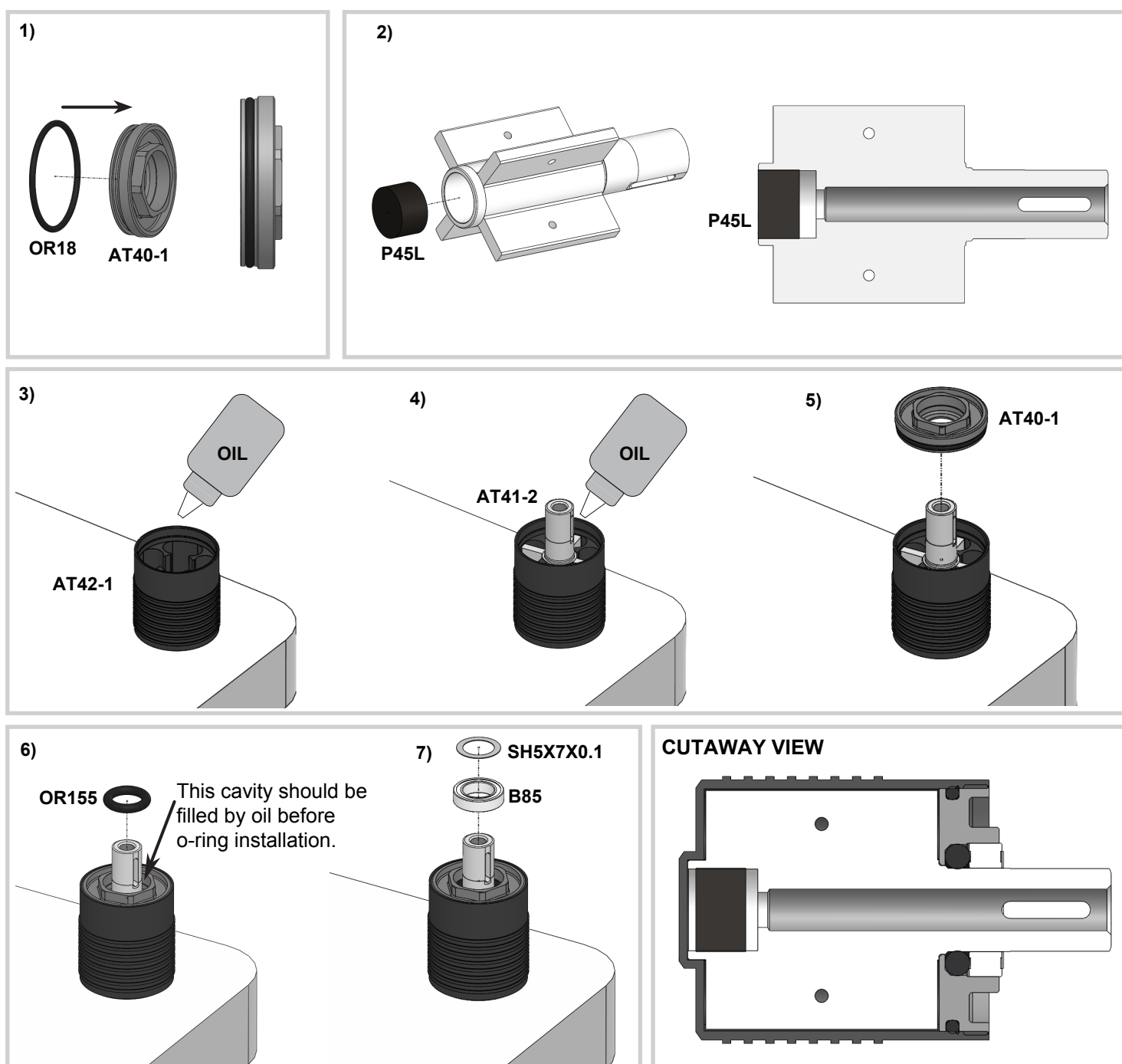


Make Rear  
Right and Rear Left.

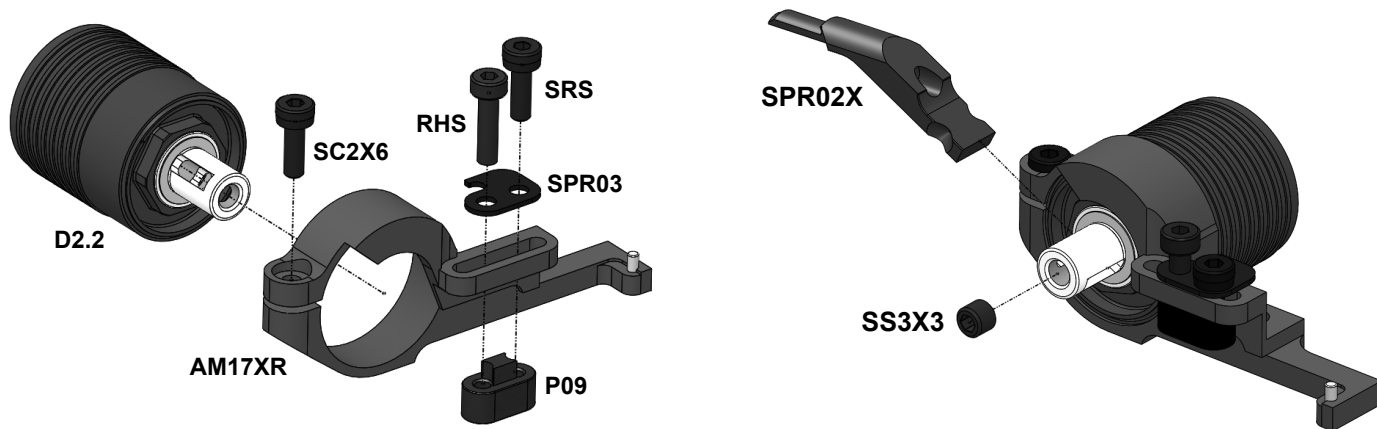
## Rebuildable Damper Set

**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 **P45L** Sponge Piston into **AT41-2** Vane cavity. Align the outer face of **P45L** 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.

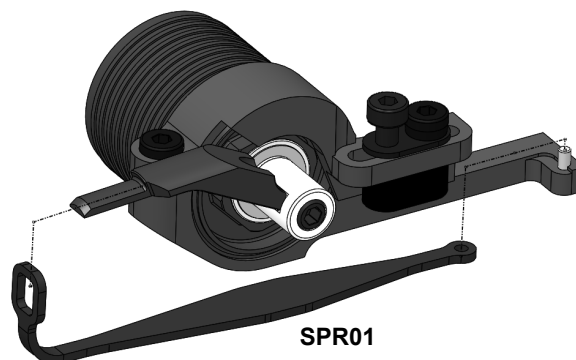
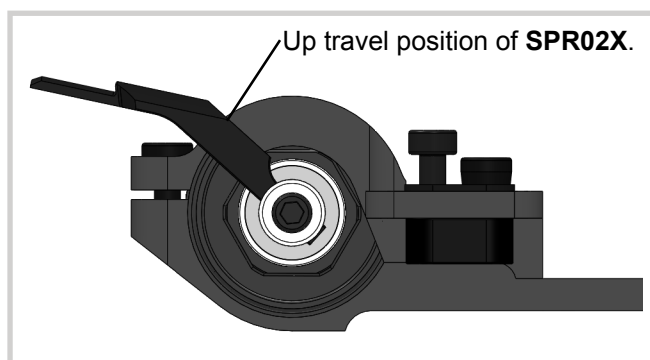


## STEP 6



## STEP 6 (cont'd)

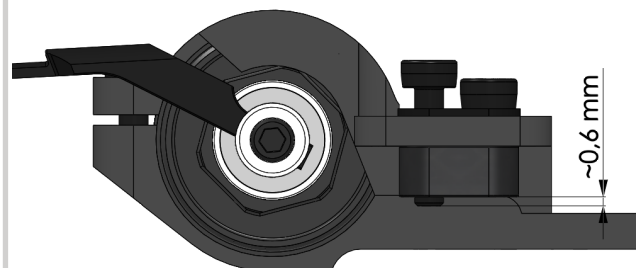
**Attention!** After installation of **SPR02X** rotate the complete **D2.2** damper within **AM17XR/L** until the maximum up travel is reached and secure **SC2X6** screw in the **AM17X/RL** after that. At the max up travel position the **SPR02X** should touch the stopper on **AM17X/RL** !!!



	<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 Spring	x4
	<b>P09</b> Shock Screw Holder	x4	<b>SPR02X</b> Shock Rod Guide	x4

## STEPS 6 FINISHED

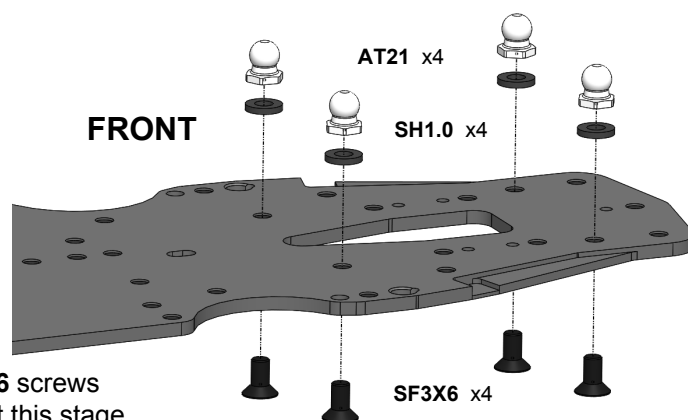
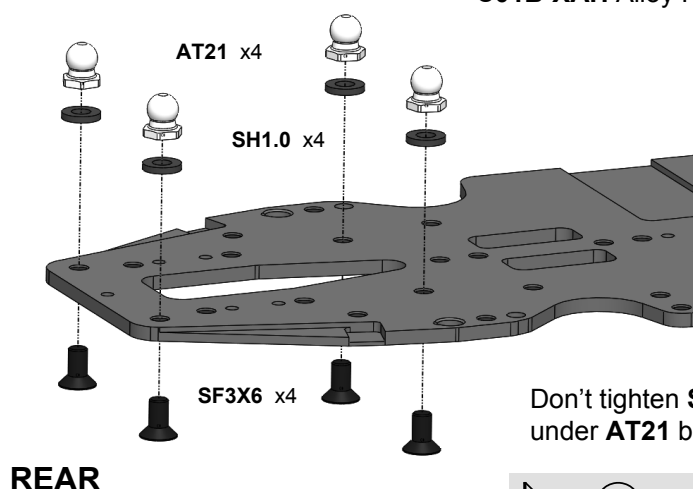
Assemble 2 Right Shocks  
and 2 Left Shocks.



**Note:**  
Initial position of **RHS** Ride Height Screw is ~0.6mm.  
Don't tighten **SRS** Spring Rating Screw too much to avoid **P09** thread damage.

## STEP 7

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

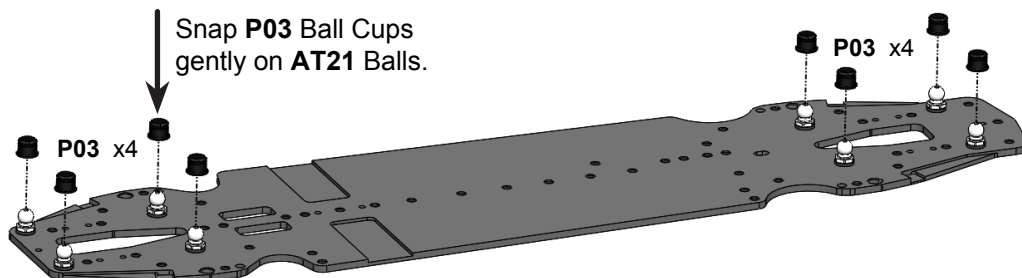


Don't tighten **SF3X6** screws under **AT21** balls at this stage.

REAR

	<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



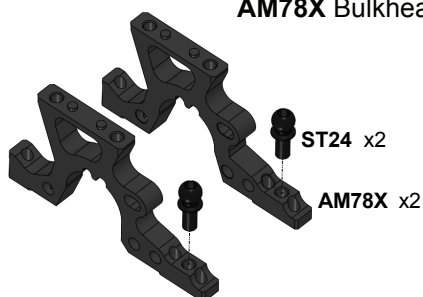
Crimp **P03** if it will be tight at swinging.



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

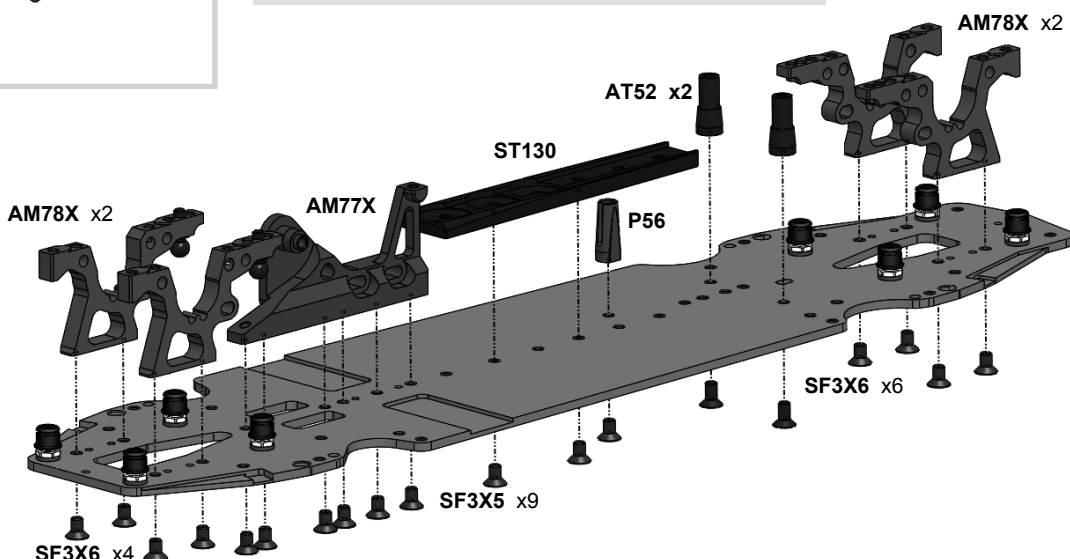
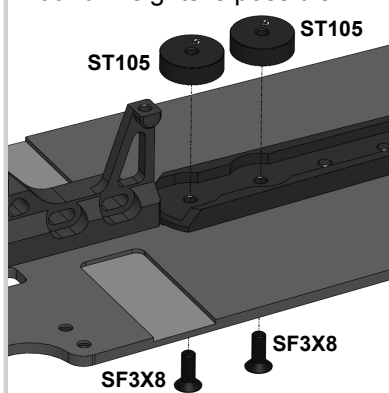
## STEP 8

Install two **ST24** Ball Studs on two rear **AM78X** Bulkheads.



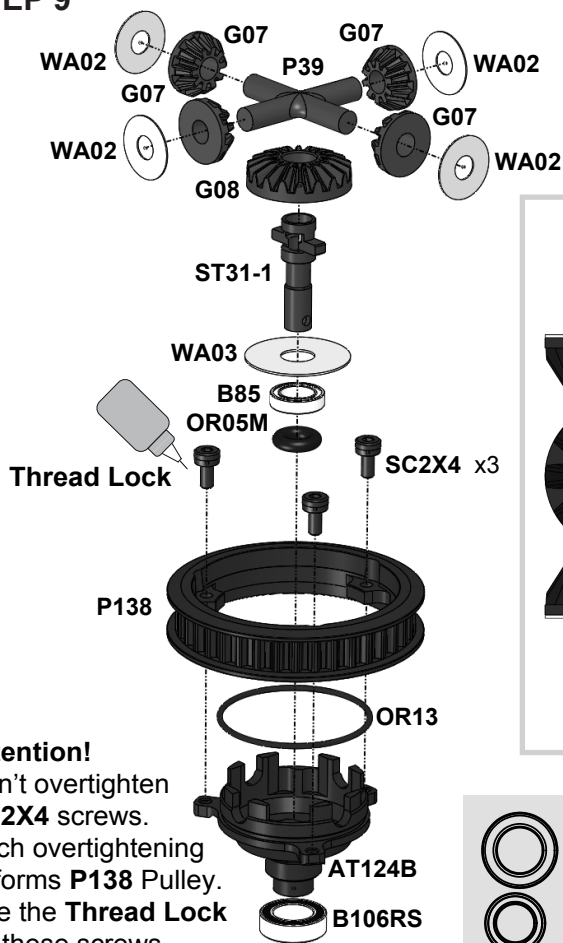
	<b>SF3X6</b> M3x6 Flat Head Screw	x10
	<b>SF3X5</b> M3x5 Flat Head Screw	x13
	<b>ST24</b> 4,8mm Ball Stud	x2
	<b>AM77X</b> Motor Mount	x1
	<b>AM78X</b> Bulkhead	x4
	<b>ST130</b> 30g Chassis Stiffener	x1
	<b>P56</b> Antenna Holder	x1
	<b>AT52</b> Bellcrank Post	x2

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





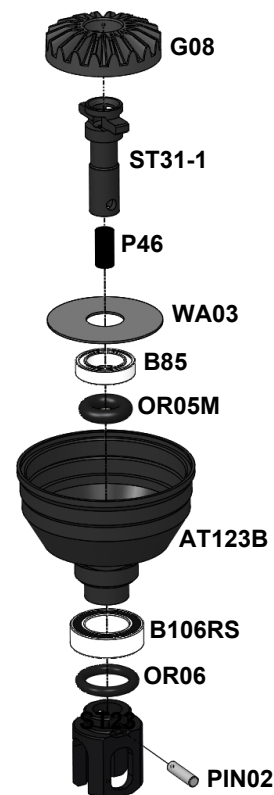
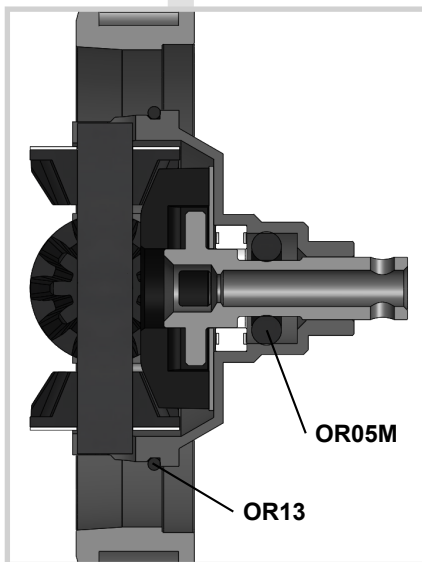
## STEP 9



### Attention!

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

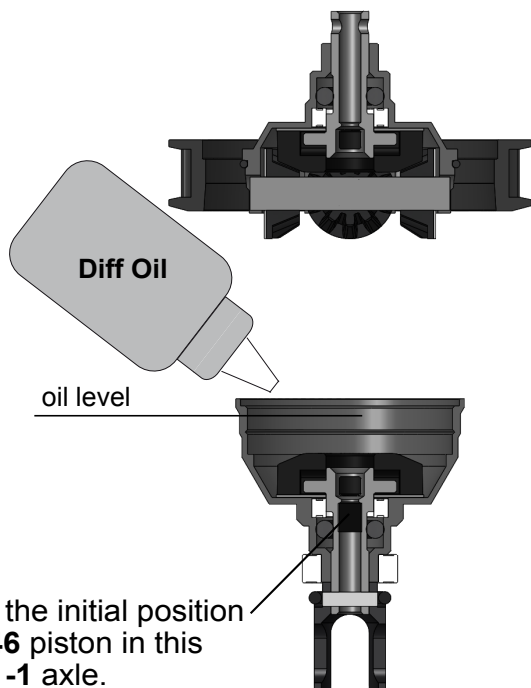
## STEP 10



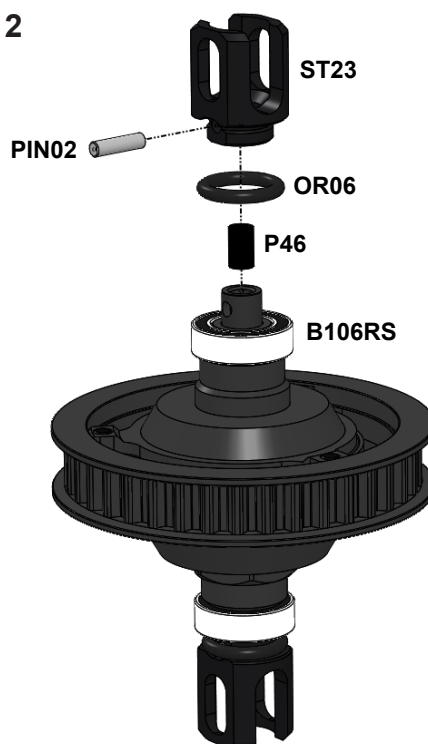
	<b>B106RS</b>	MR106RS Bearing	x2	<b>AT123B</b>	GD2B Case1	x1
	<b>B85</b>	MR85 Bearing	x2	<b>AT124B</b>	GD2B Case2	x1
	<b>OR05M</b>	O-Ring	x2	<b>P138</b>	38T Pulley	x1
	<b>OR06</b>	O-Ring	x2	<b>ST23</b>	GD Outdrive	x2
	<b>P46</b>	Sponge Piston	x2	<b>ST31-1</b>	GD2 Output Axle	x2
	<b>PIN02</b>	1,5x5,8 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.

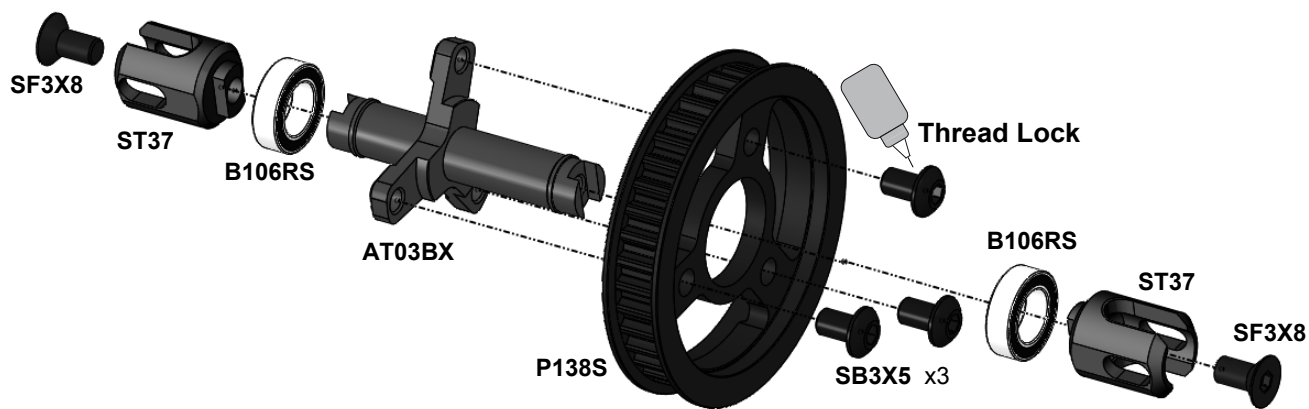








## STEP 12



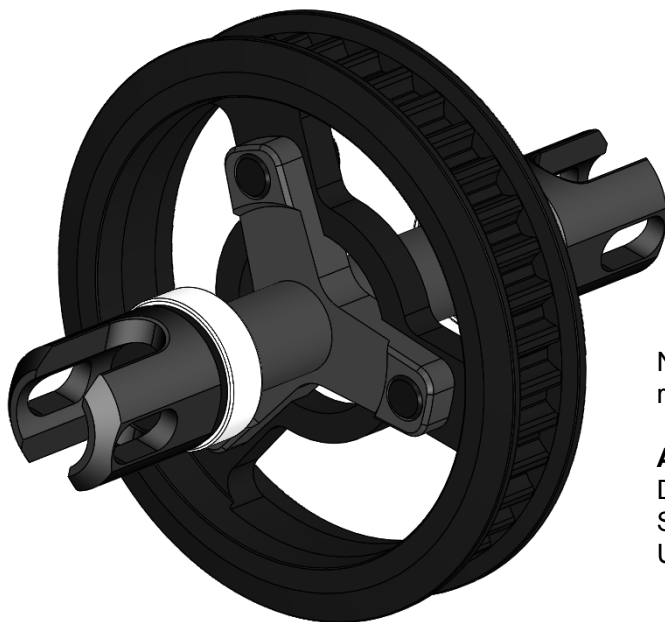


## STEP 13



	<b>B106RS</b>	MR106RS Bearing	x2		<b>ST37</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



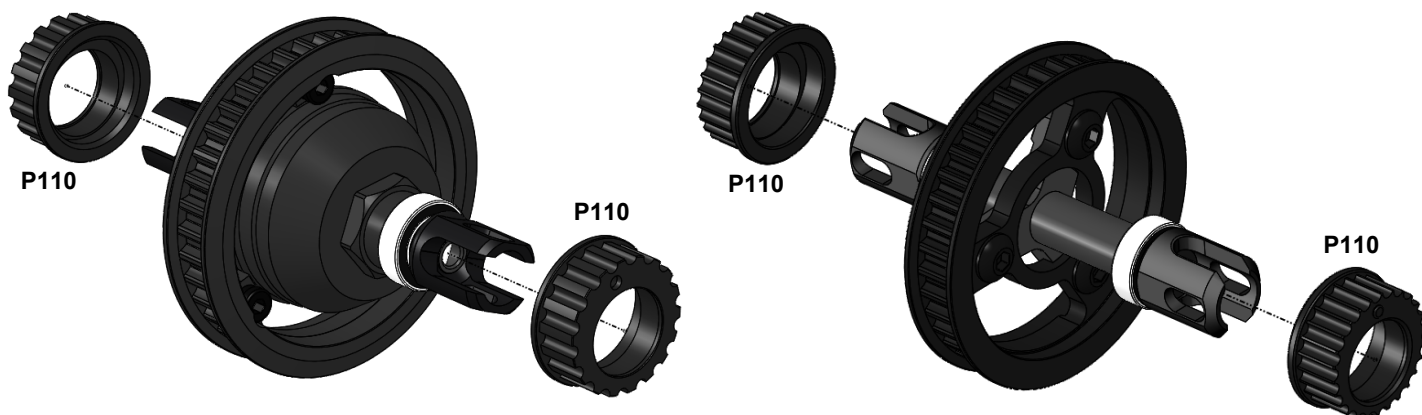
Note the correct orientation of **AT03BX** Axle regarding to **P138S** Pulley.

### Attention!

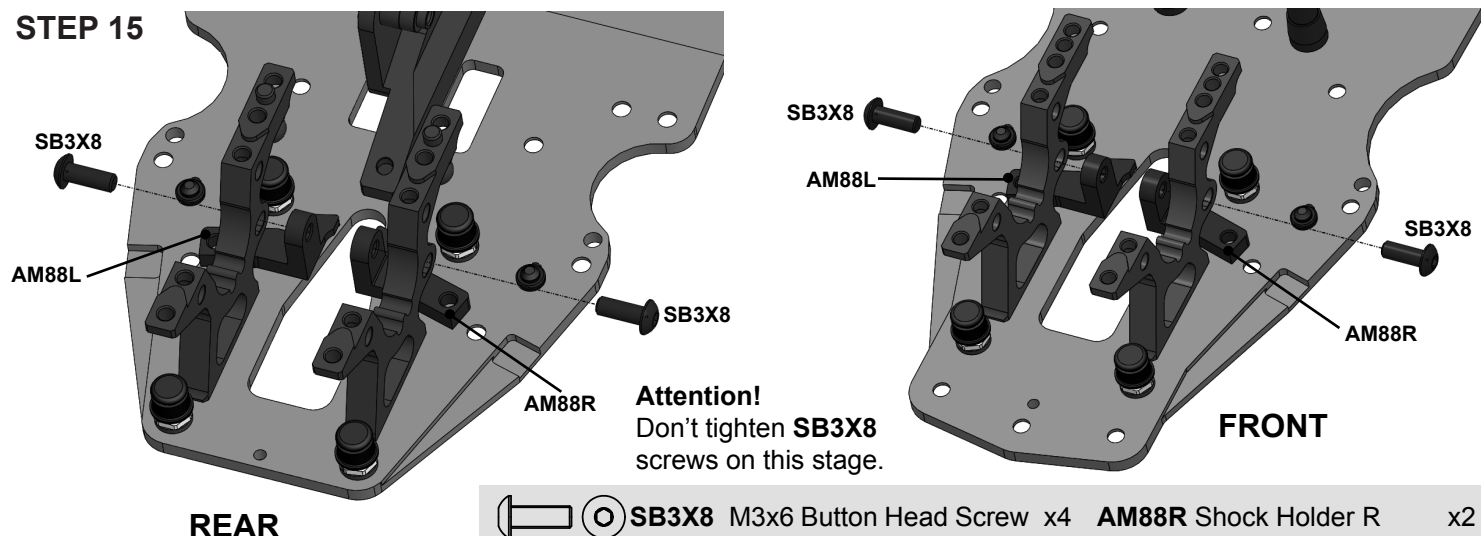
Don't overtighten **SB3X5** screws.  
Such overtightening deforms **P138S** Pulley.  
Use the **Thread Lock** for these screws.

## STEP 14

**P110** Bearing Housing x4



## STEP 15

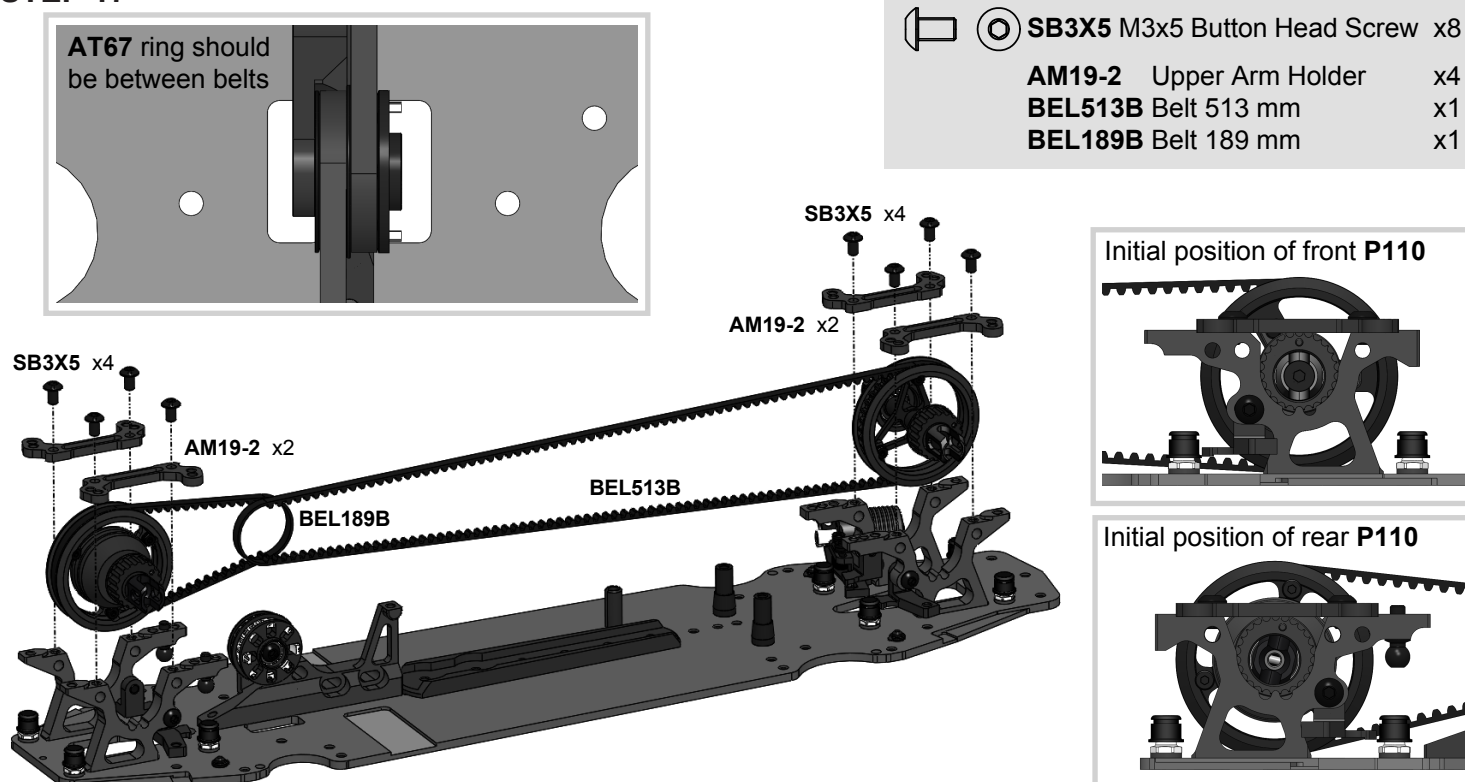


	<b>SB3X8</b> M3x6 Button Head Screw	x4	<b>AM88R</b> Shock Holder R	x2
	<b>SB3X6</b> M3x6 Button Head Screw	x1	<b>AM88L</b> Shock Holder L	x2
	<b>SH0.1</b> 6x8x0.1mm Shim	x1	<b>AT120</b> 20T Alloy Pulley	x1
	<b>B106RS</b> MR106RS Bearing	x1	<b>AT62</b> Spur Holder	x1
	<b>B84RS</b> MR84RS Bearing	x1	<b>DT08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

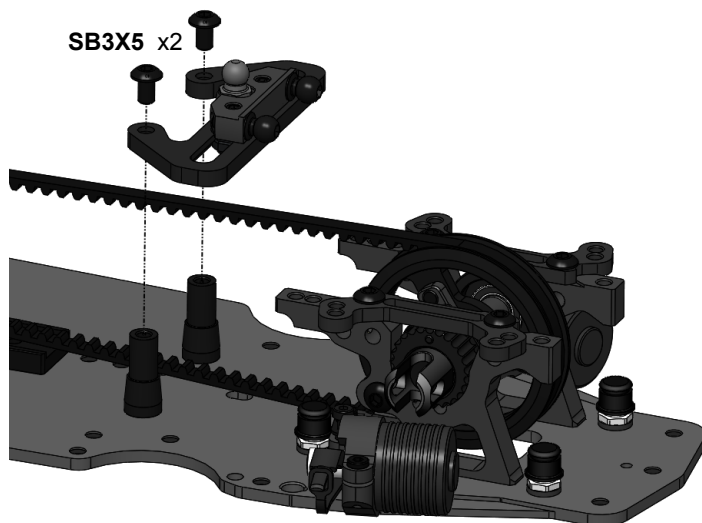
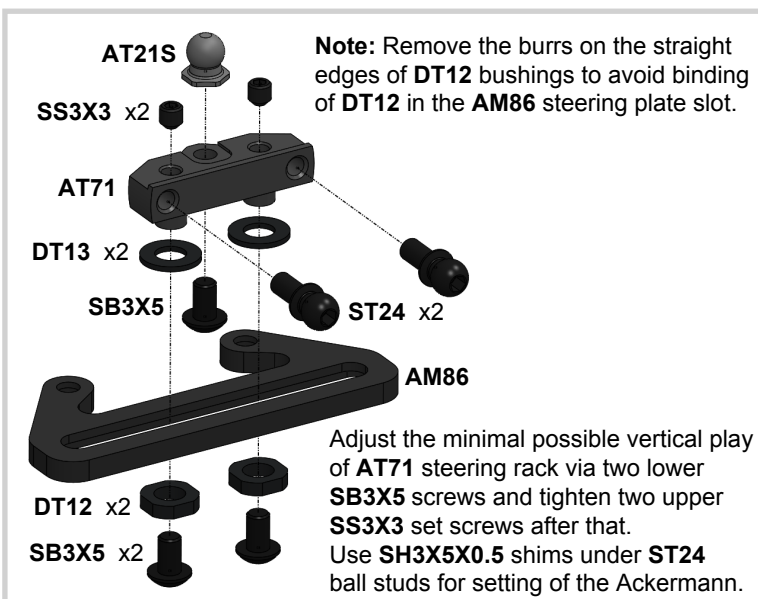
## STEP 16



## STEP 17

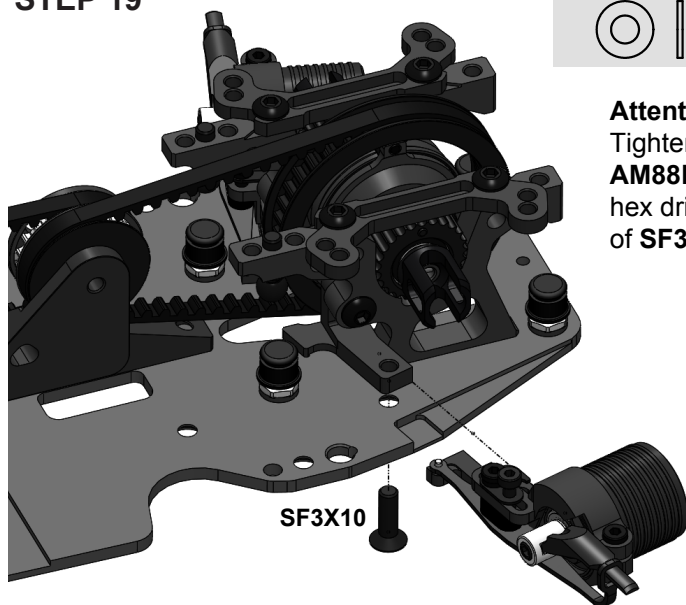


## STEP 18

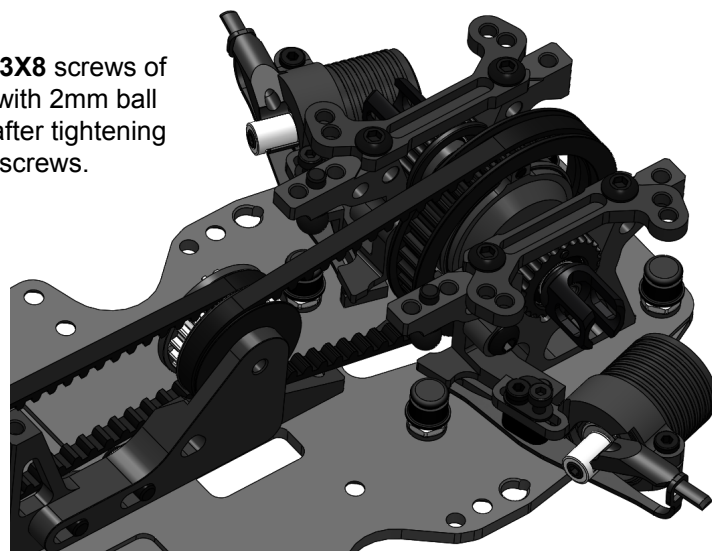


	<b>SB3X5</b>	M3x5 Button Head Screw	x5	<b>AT71</b>	LS1 Steering Rack	x1
	<b>SF3X10</b>	M3x10 Flat Head Screw	x4	<b>AM86</b>	LS1 Steering Plate	x2
	<b>SS3X3</b>	M3x3 Set Screw	x2	<b>ST24</b>	4,8x6mm Ball Stud	x2
	<b>DT13</b>	LS1 Steering Shims	x2	<b>A21S</b>	Pivot Ball Short	x1
				<b>DT12</b>	LS1 Steering Bushing	x2

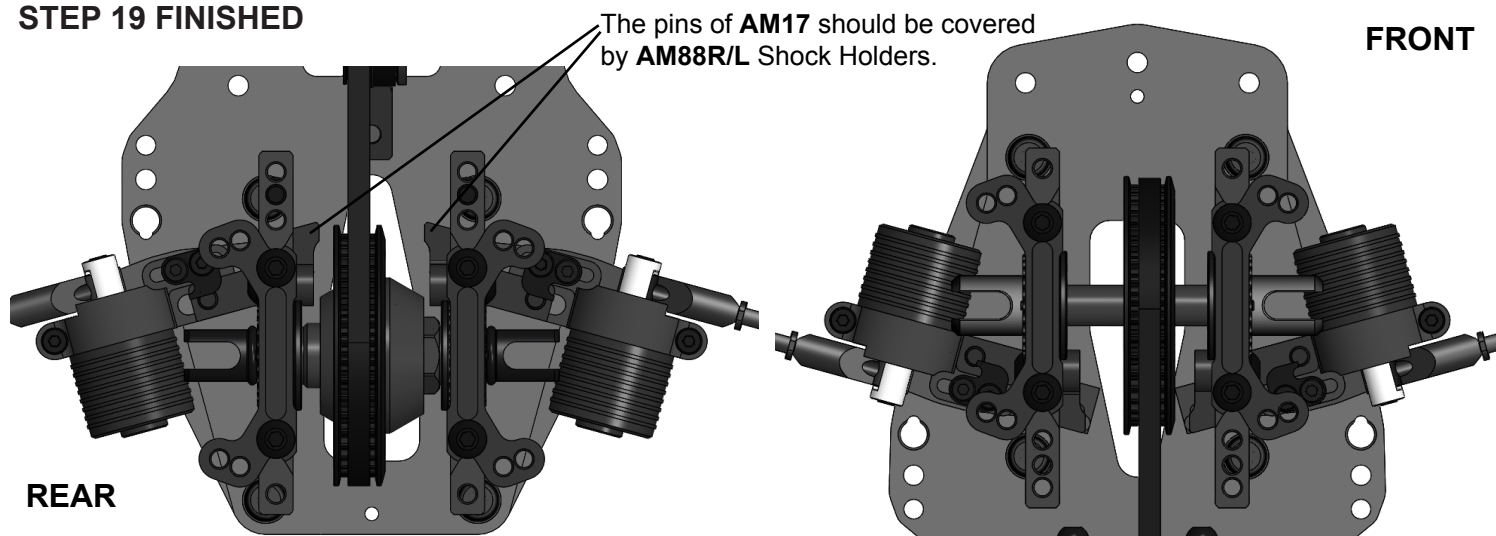
## STEP 19



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

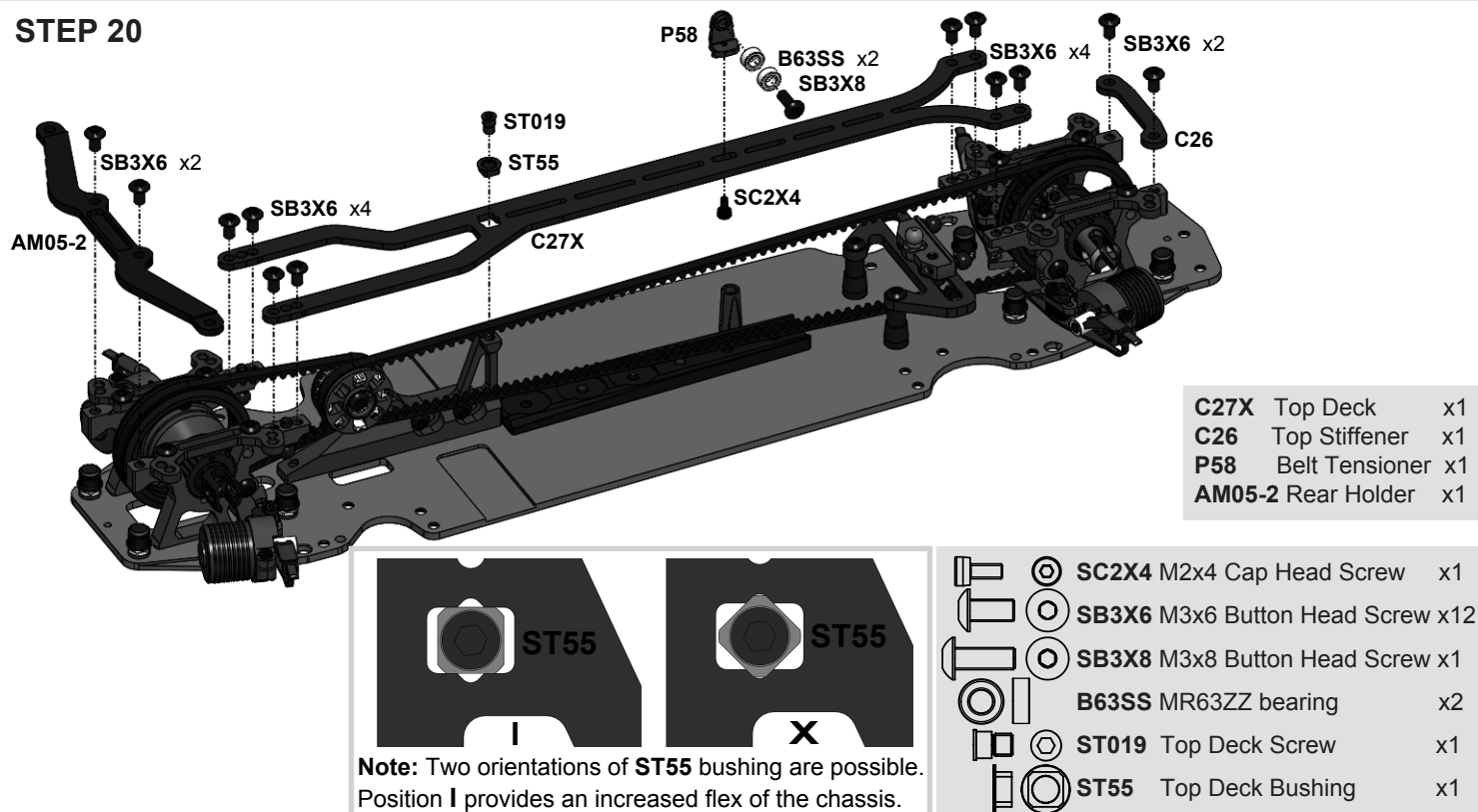


## STEP 19 FINISHED

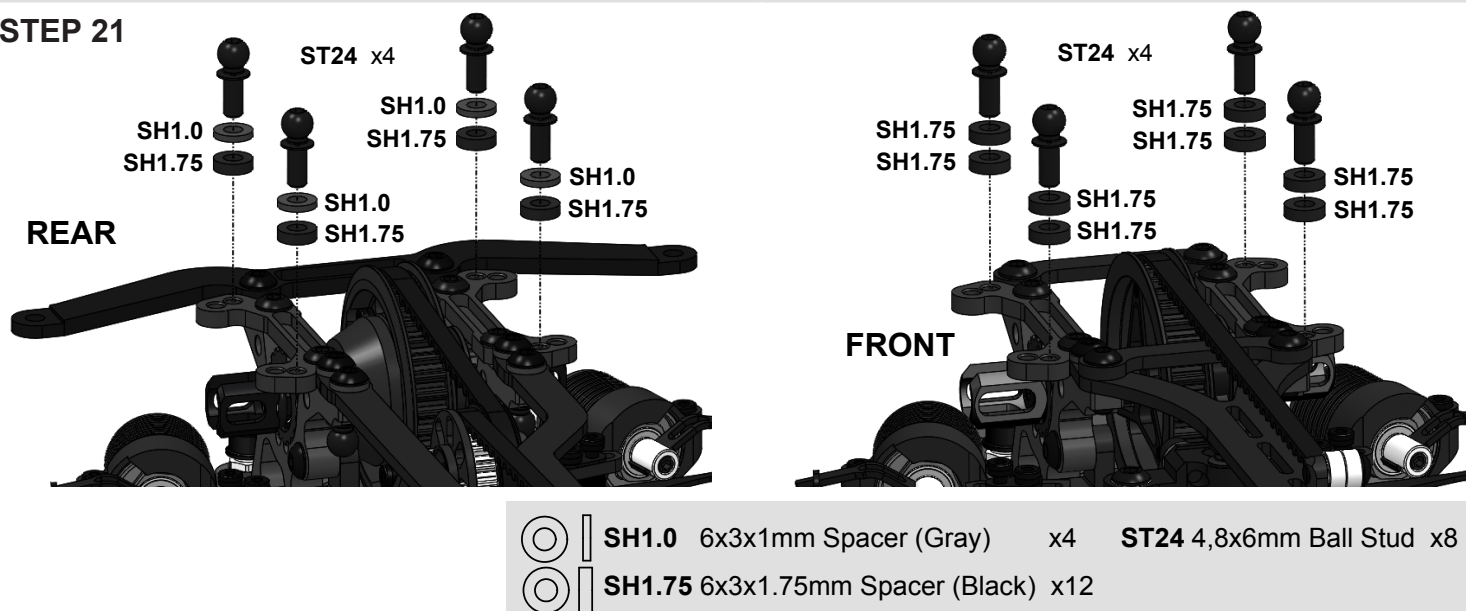




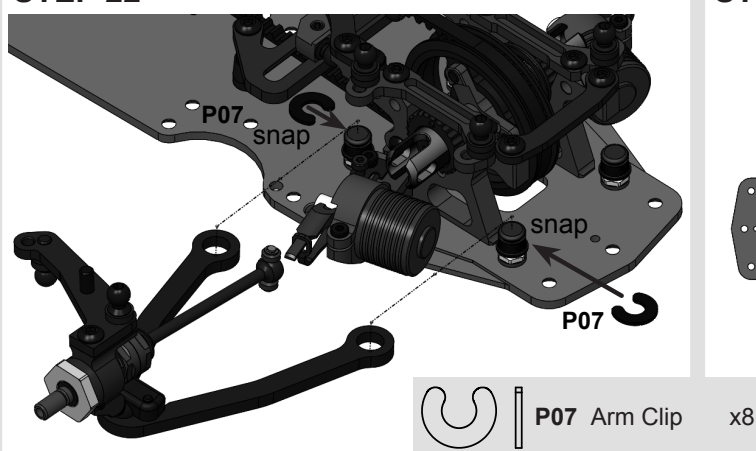
## STEP 20



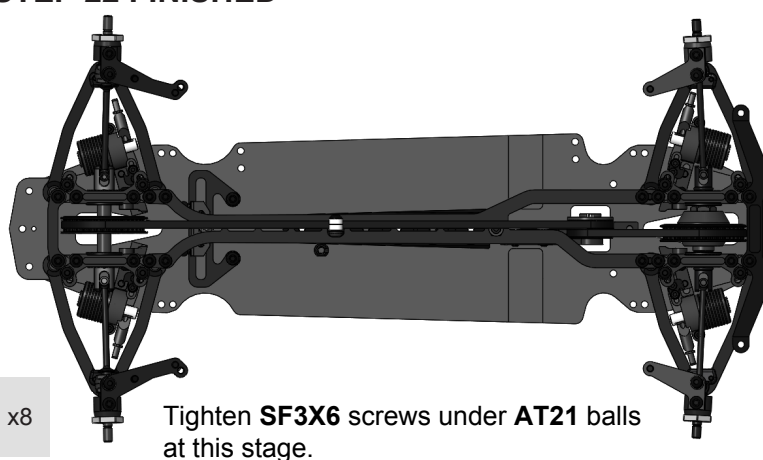
## STEP 21



## STEP 22



## STEP 22 FINISHED

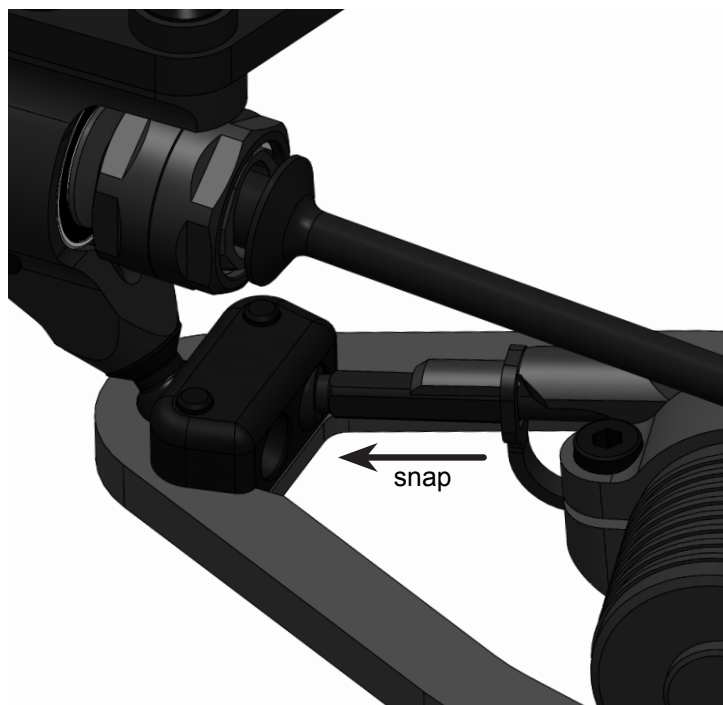


## STEP 23

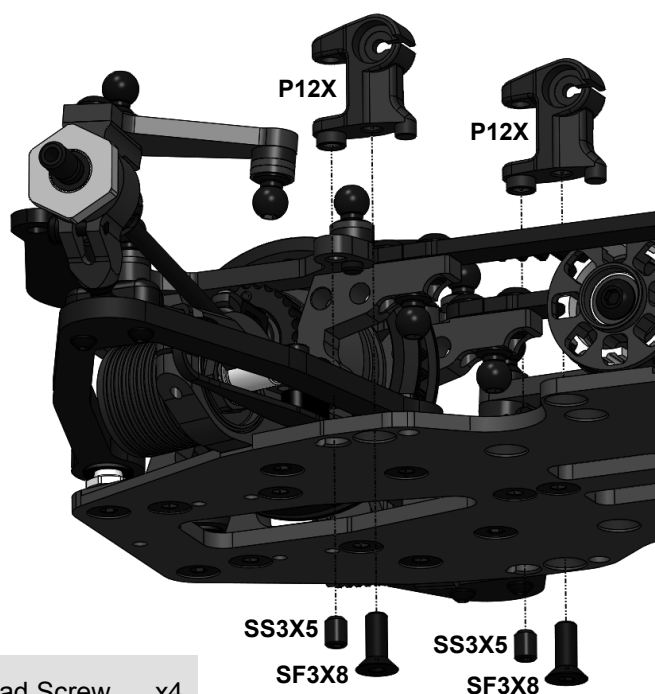
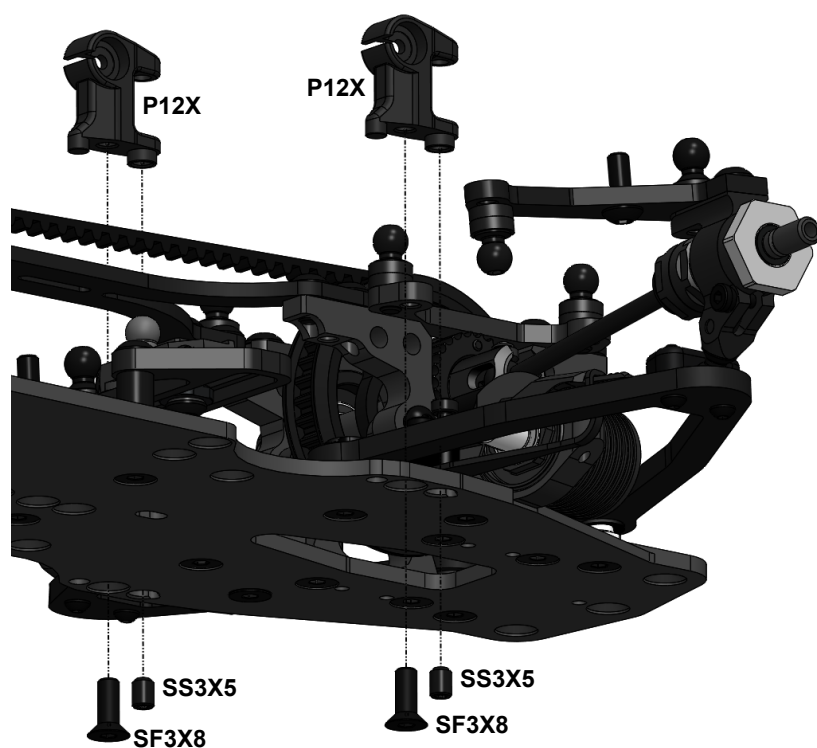


ST05L Shock Rod x4

## STEP 23 FINISHED

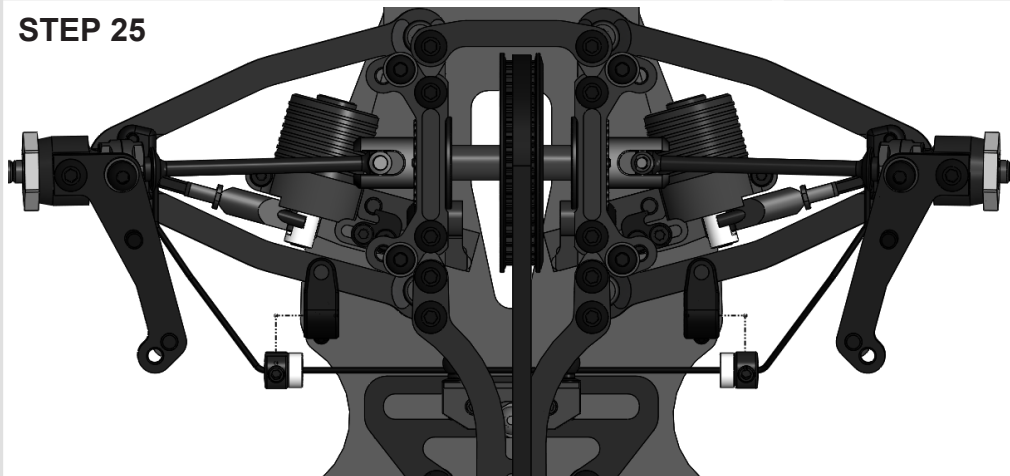


## STEP 24



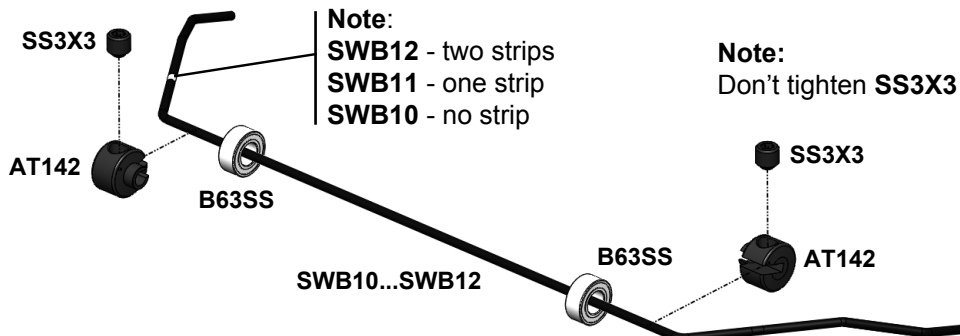
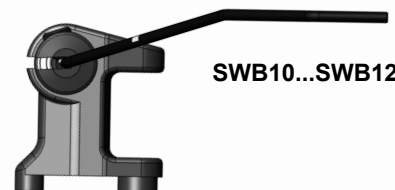
		SF3X8 M3x8 Flat head Screw	x4
		SS3X5 M3x5 Set Screw	x4
		P12X Sway Bar Holder	x4

## STEP 25



### Attention!

The deflected tips of Sway Bar should be directed downwards.



## STEP 25 (cont'd)

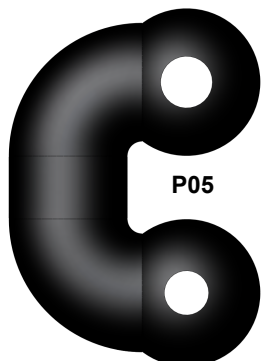
□ ◎ **SS3X3** M3x3 Set Screw x4

◎ □ **B63SS** MR63ZZ Bearing x4

**SWB10....SWB12** Sway Bar x2

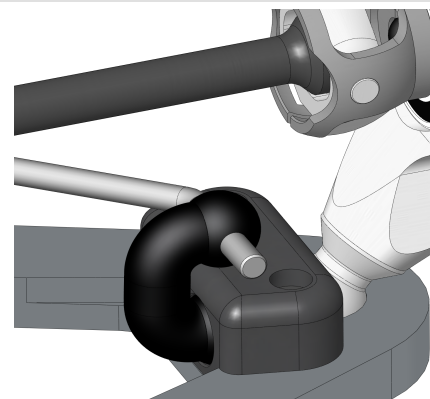
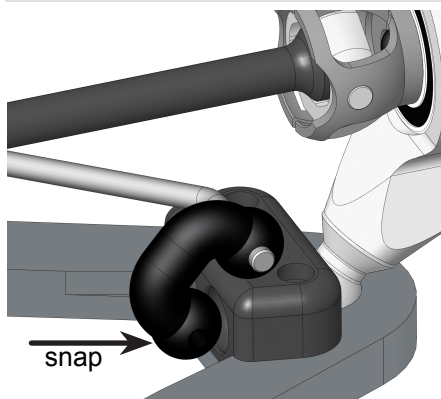
**P05** Sway Bar Joint x4

**AT142** Sway Bar Stopper x4

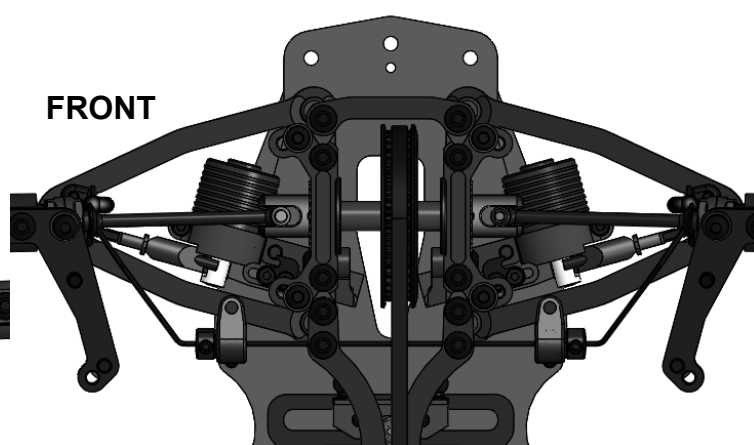
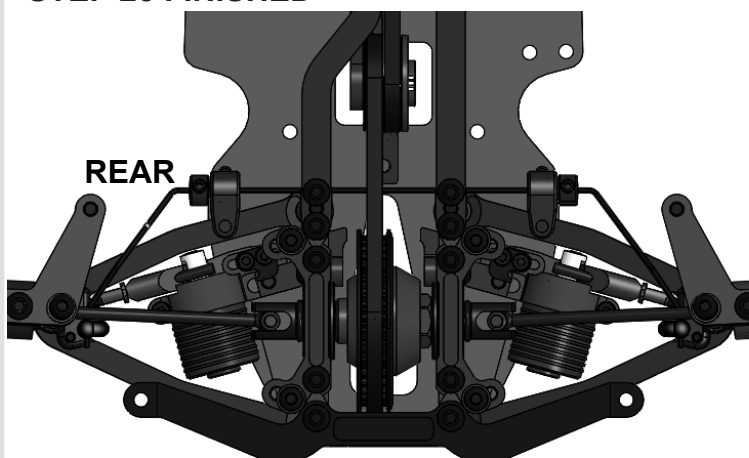


Use bigger hole for **SB12** Sway Bars.

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



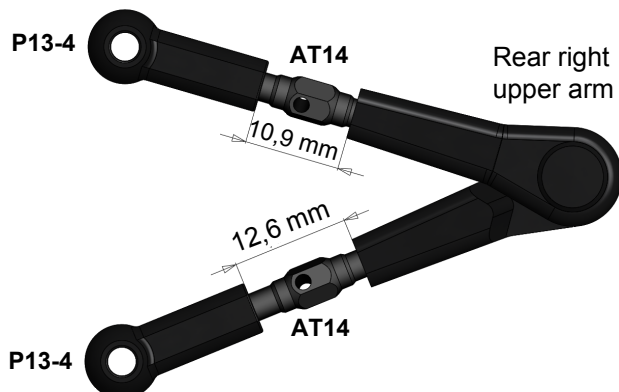
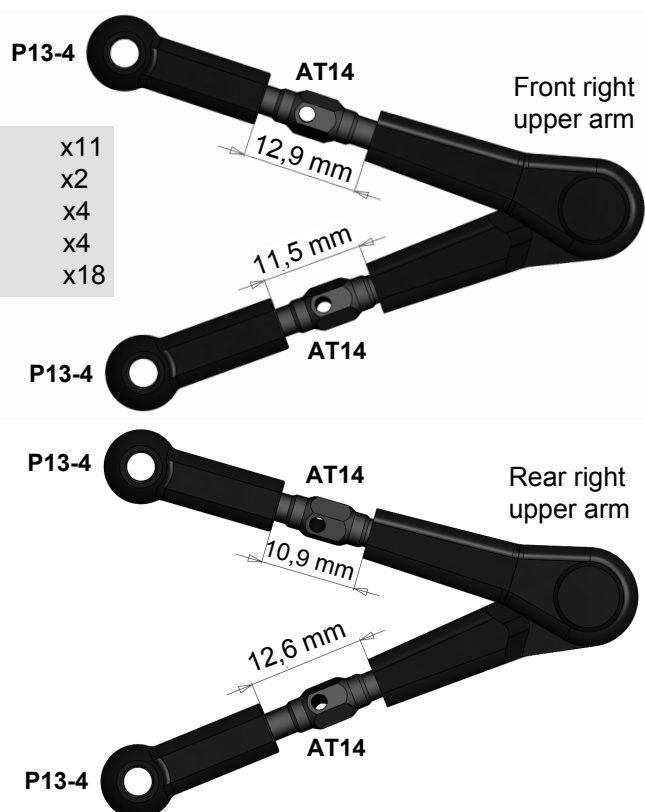
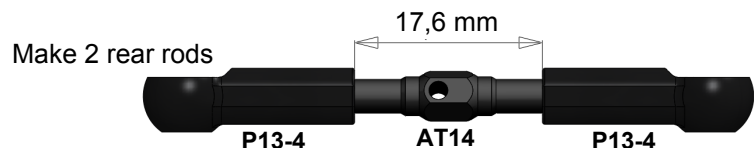
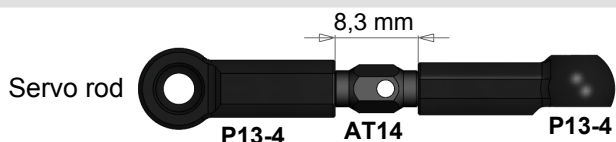
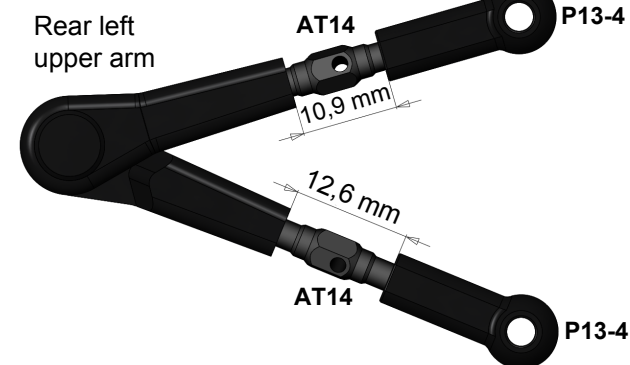
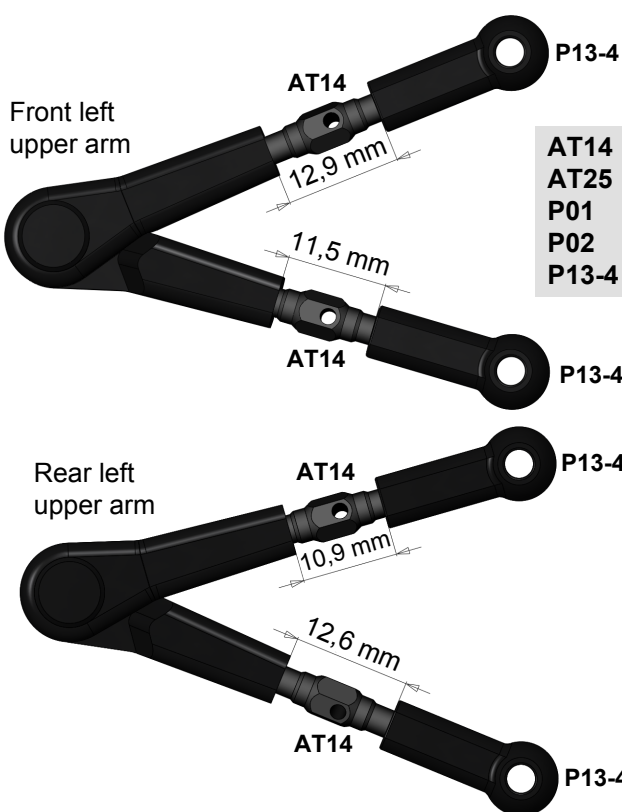
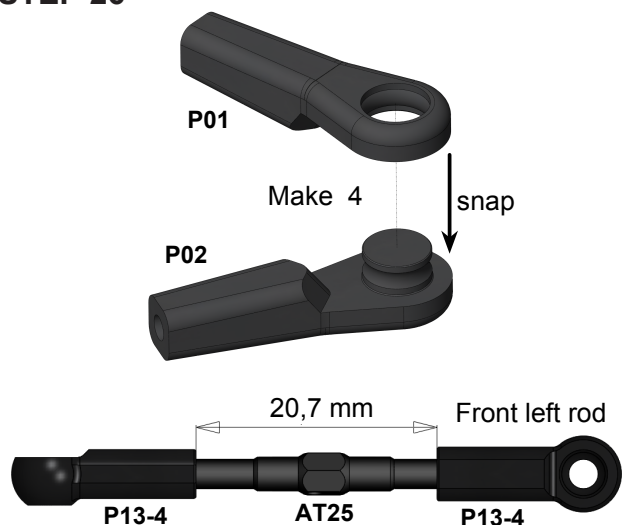
## STEP 25 FINISHED



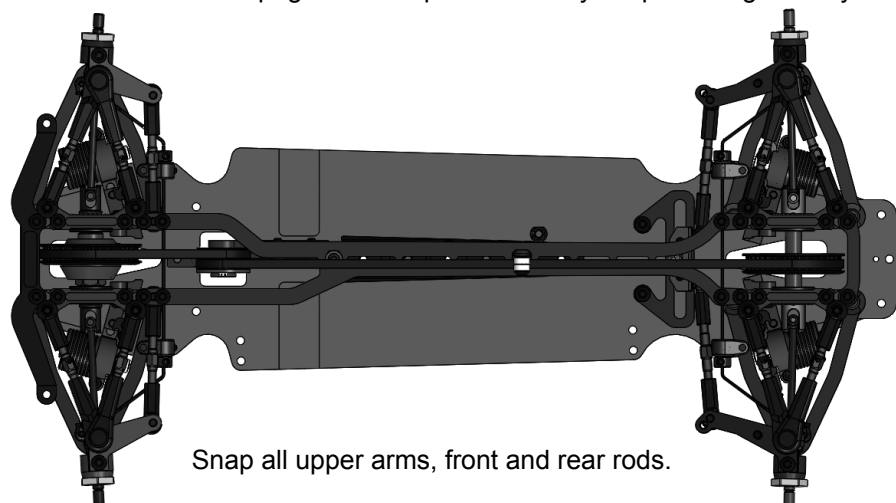
Adjust **AT142** Stoppers disposal to reach the centered position of the Sway Bars and tighten **SS3X3** Set Screws after that.



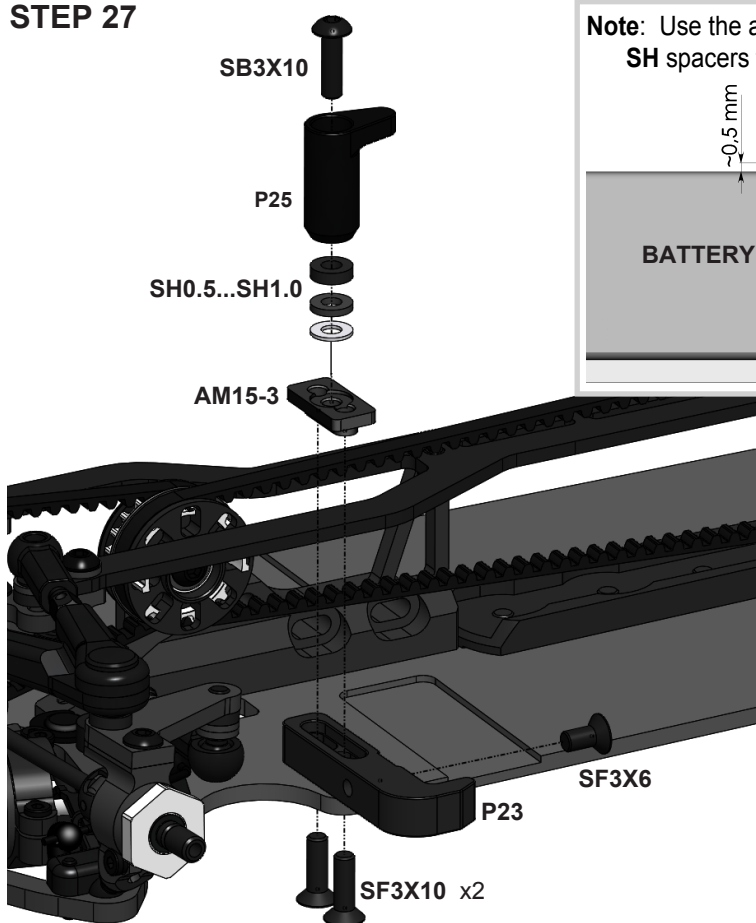
## STEP 26



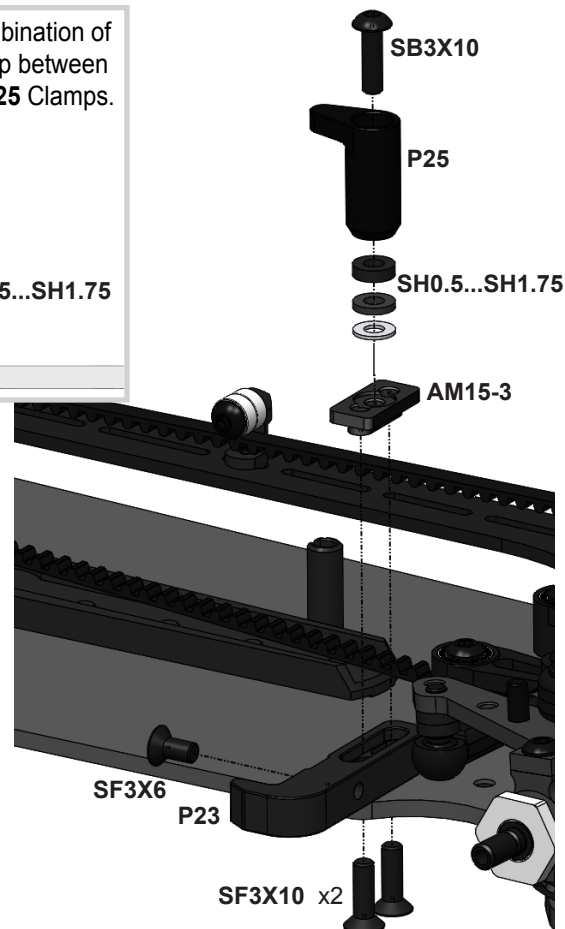
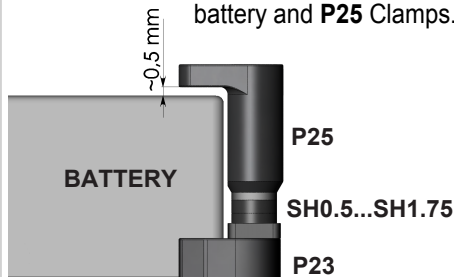
**Notes:** The given rods and arms sizes are approximately for 4° front caster and - 4° rear caster, 2° both front and rear cambers, 2,5° rear toe-in and 1° front toe out angles. Use a setup station or angles gauge for further precise suspension geometry setting. See our recommendations on page #23 for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

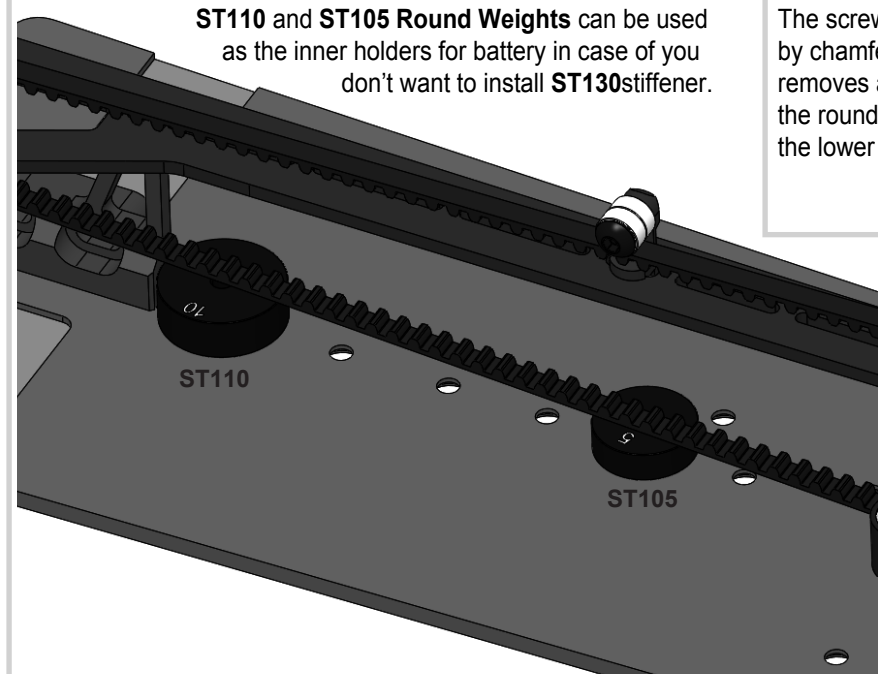
Choose the desirable battery position.

Tighten up **SF3X10** screws to fix

**P23** Battery Holders.

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

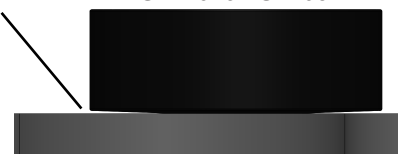
	<b>SF3X10</b> M3x10 Flat Head Screw	x4	<b>P23</b> Outer Battery Holder	x2
	<b>SF3X6</b> M3x6 Flat Head Screw	x2	<b>P25</b> Battery Clamp	x2
	<b>SB3X10</b> M3x10 Button Head Screw	x2	<b>AM15-3</b> Battery Nut	x2
			<b>SH0.5 SH1.0 SH1.75</b> Spacers	



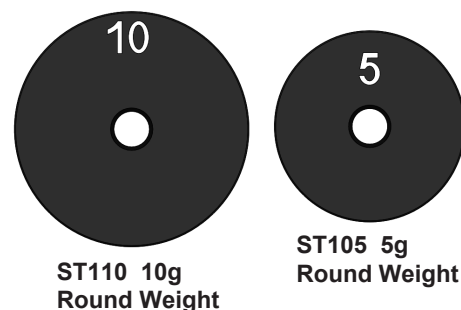
**ST110** and **ST105** Round Weights can be used as the inner holders for battery in case of you don't want to install **ST130** stiffener.

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

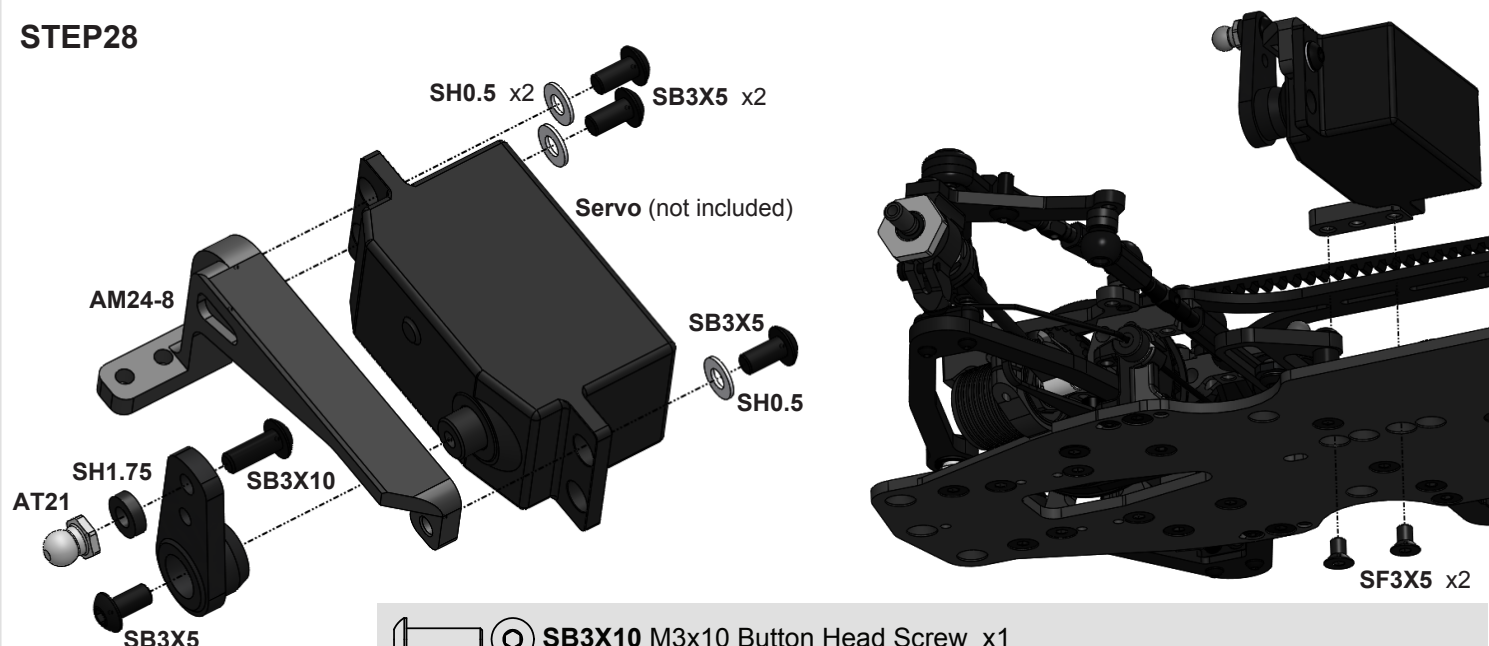
**ST110** or **ST105**



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



## STEP28



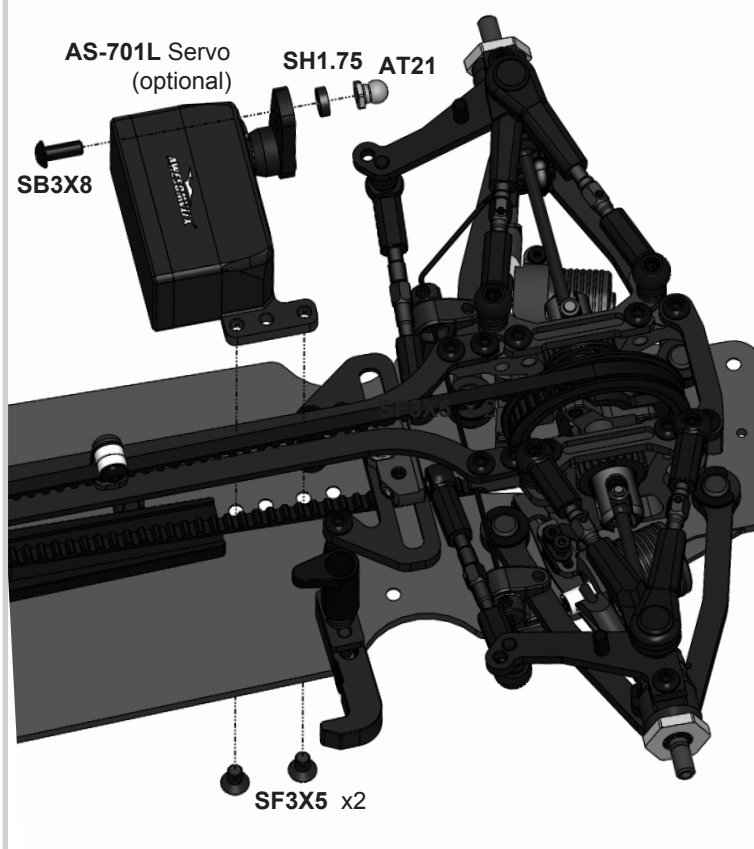
- SB3X10** M3x10 Button Head Screw x1
- SF3X5** M3x5 Flat Head Screw x2
- SB3X5** M3x5 Button Head Screw x4
- SH0.5** 6x3x0.5mm Spacer (Silver) x3
- SH1.75** 6x3x1.75mm Spacer (Black) x1

**AT21** Pivot Ball x1

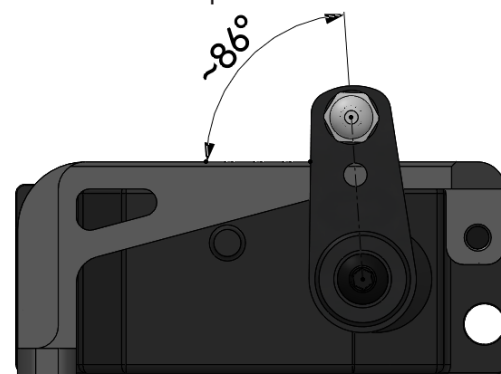
**AM24-8** Servo Holder x1

**Note:** Recommended length of servo arm is 17,5-18,5mm. We highly recommend our **P40F** and **P40K** Servo Arms. We also recommend our **AS-701L** Brushless Low-Profile Car Servo. Awesomatix **AS-701L** servo has an integrated servo holder and can be screwed to the chassis directly.

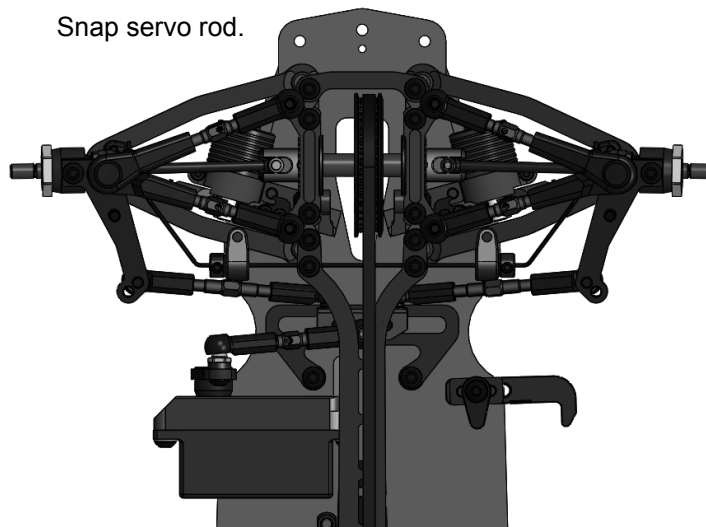
Awesomatix **AS-701L** servo installation.



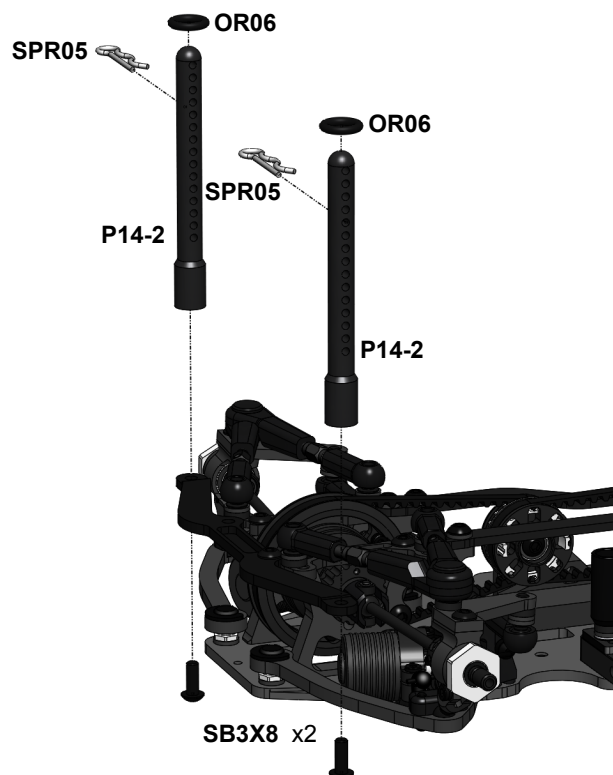
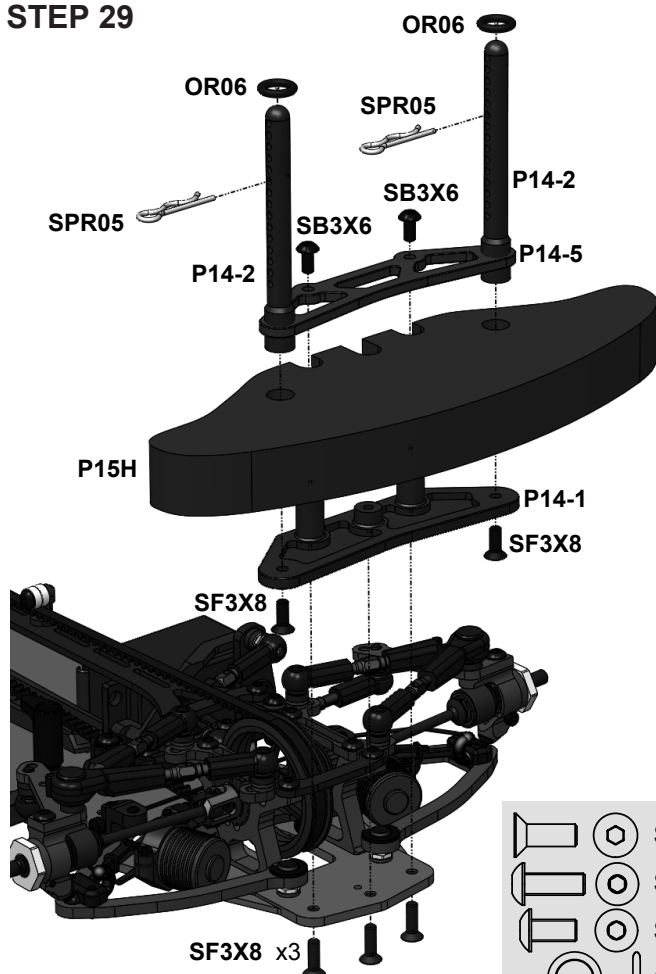
**Attention!** Neutral servo arm position.



Snap servo rod.

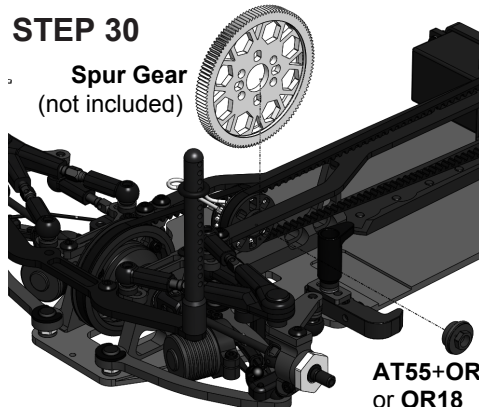


## STEP 29

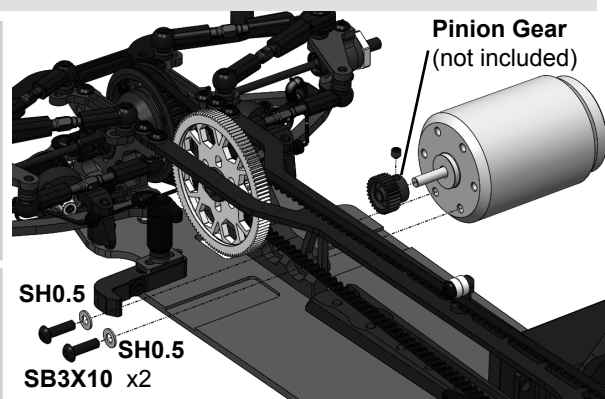
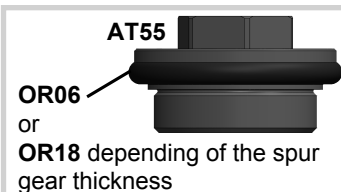
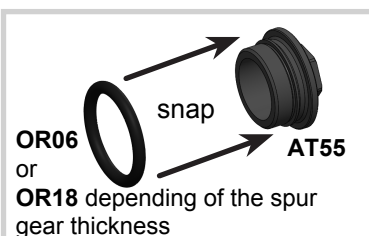


		SF3X8 M3x8 Flat Head Screw	x5	P14-1	Lower Bumper	x1
		SB3X8 M3x8 Button Head Screw	x2	P14-2	Body Post	x4
		SB3X6 M3x6 Button Head Screw	x2	P14-5	Upper Bumper	x1
		OR06 5mm O-Ring	x4	P15H	Foam Bumper	x1
				SPR05	Body Clip	x4

## STEP 30



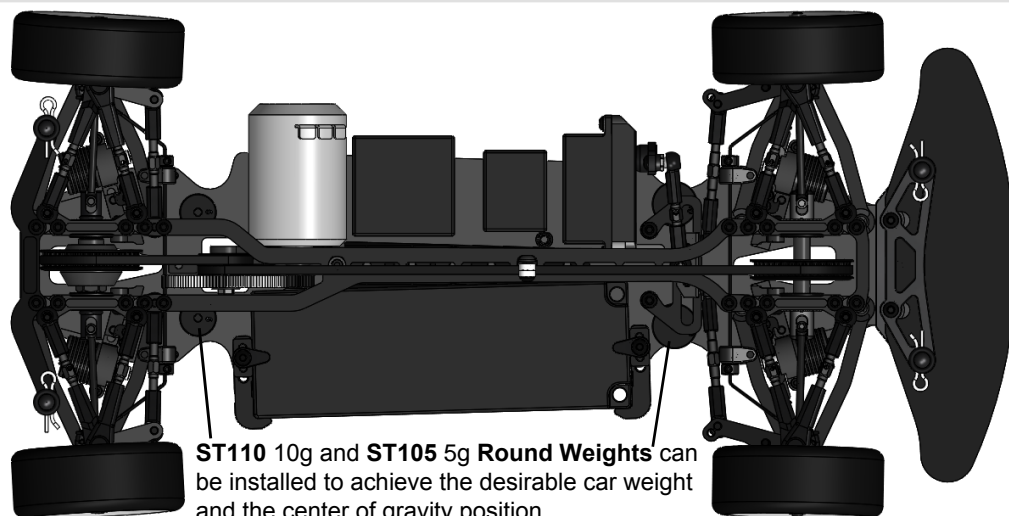
**Attention!** Please use  $\leq 4,5\text{mm}$  thick spur gears with 2-2,6mm thickness of the center area.



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

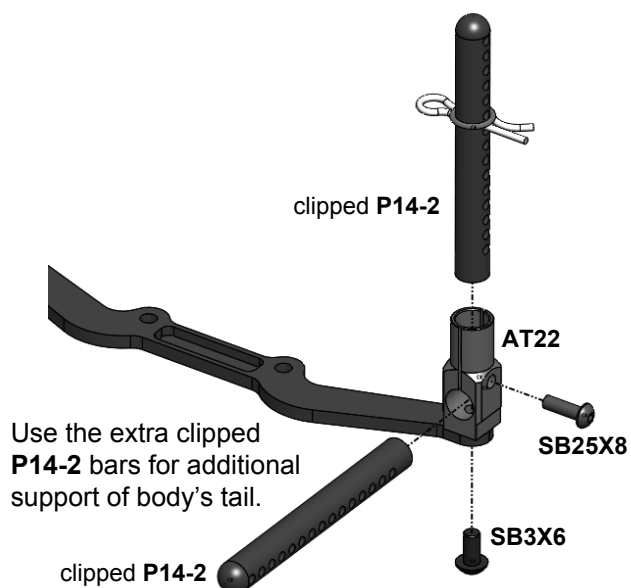
## STEP 31 FINAL ASSEMBLY

**Install:**  
Speed controller (not included),  
Receiver (not included),  
Battery (not included)  
Wheels (not included)

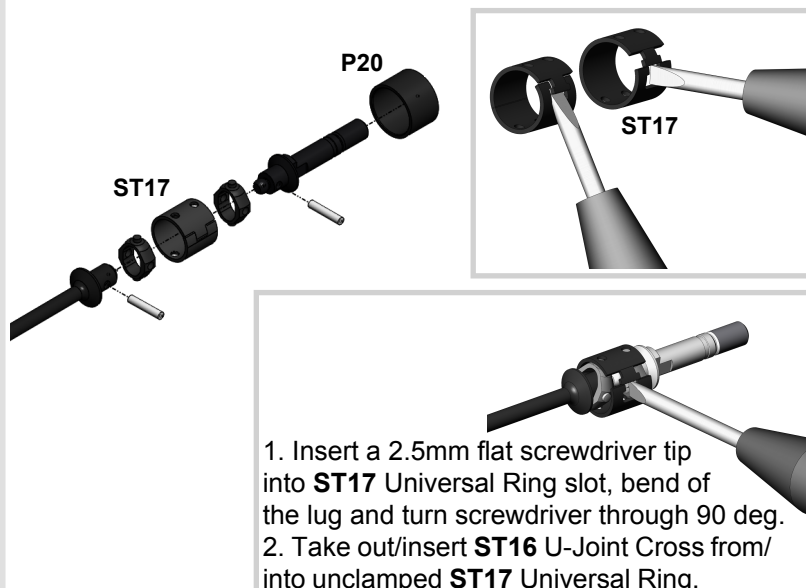




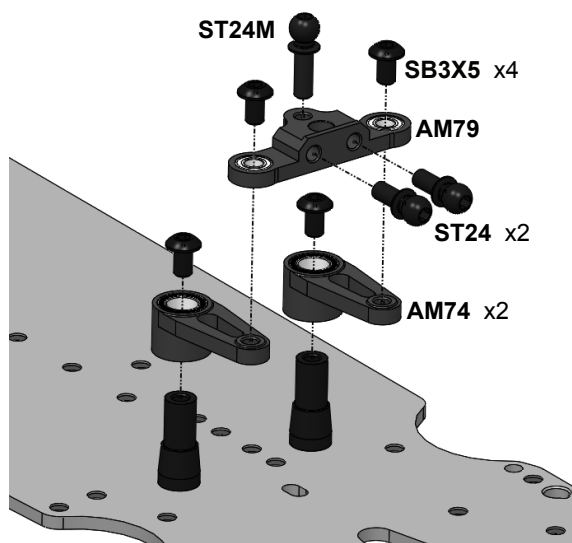
### AT22 Rear Body Holder (optional)



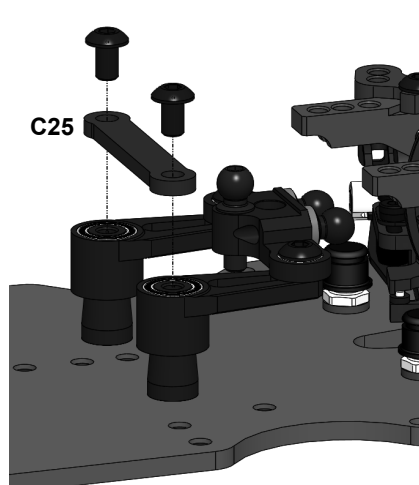
### ST17 and P20 Universal Rings (optional)



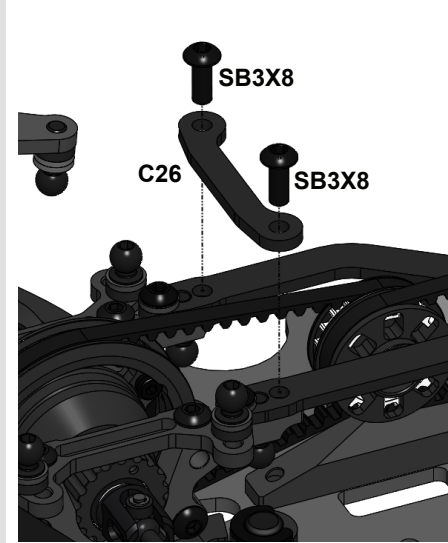
### Bellcrank Steering (optional)



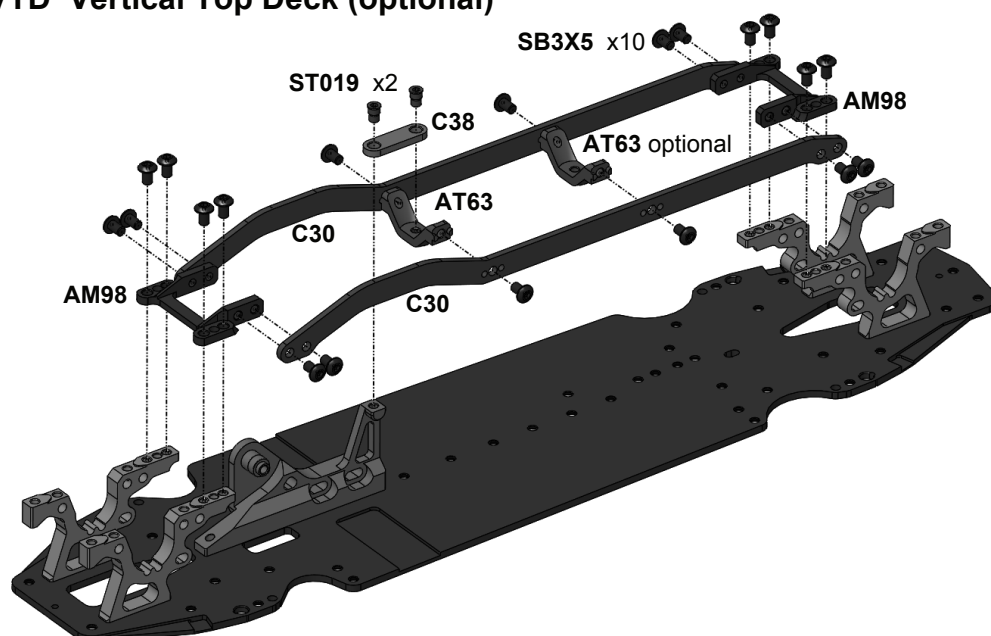
### C25 Steering Stiffener (optional)



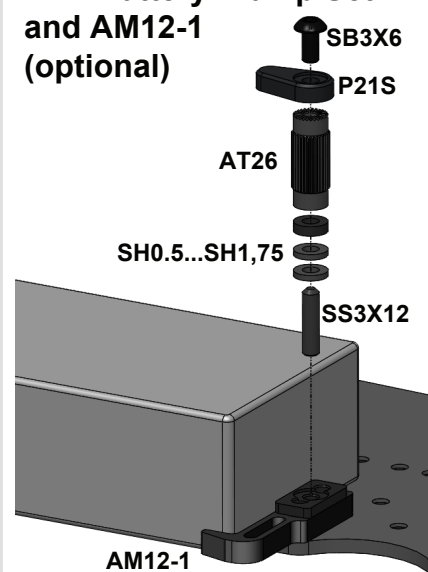
### Additional C26 Top Stiffener (optional)



### VTD Vertical Top Deck (optional)

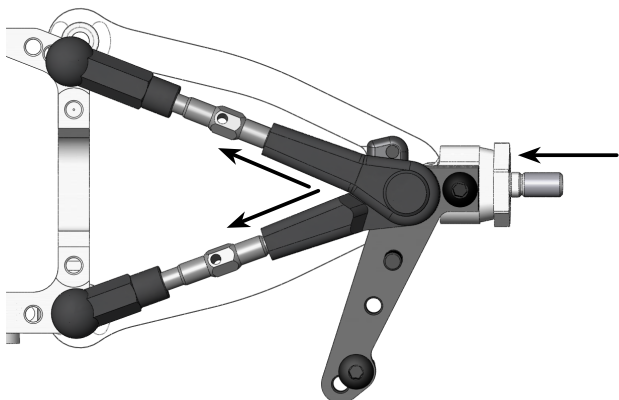


### BC1 Battery Clamp Set and AM12-1 (optional)

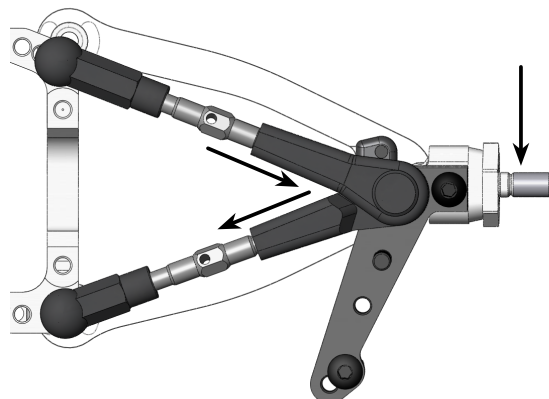


## SUSPENSION SETTING TECHNIQUE

**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.

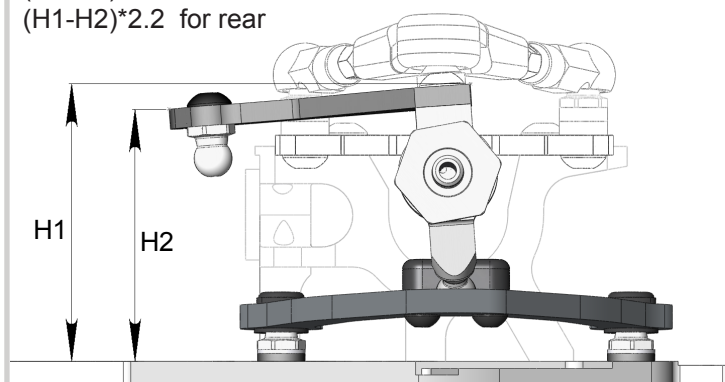


**Caster adjustment rule:** Simultaneous front upper rod 0.5mm elongation and rear upper rod 0.5mm shortening adds 2.5° of caster at constant camber.

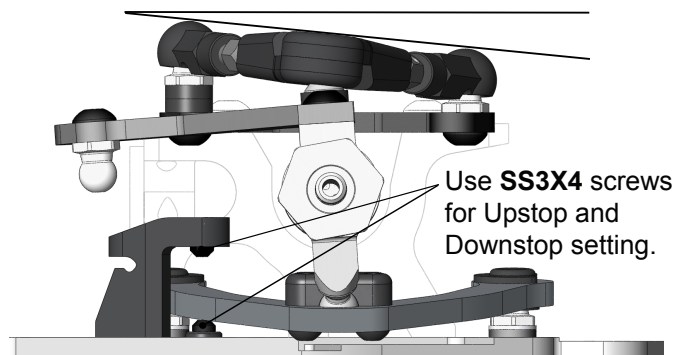


### Caster measuring:

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

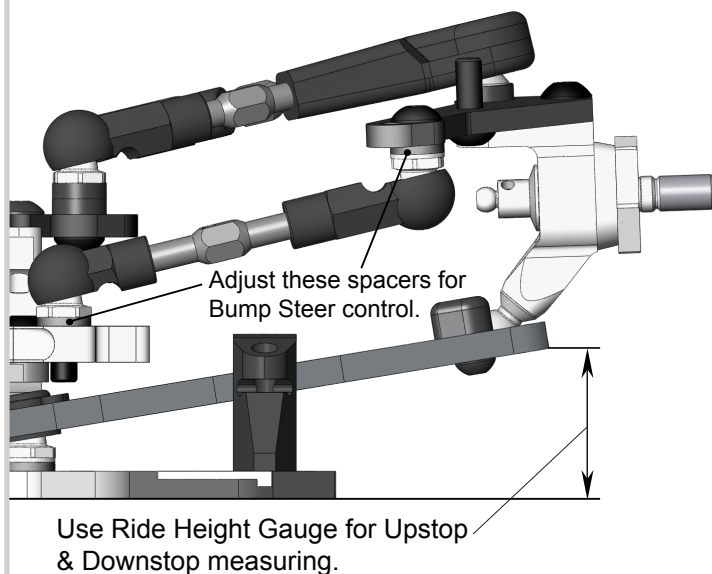


**Reactive Caster** setting is possible.



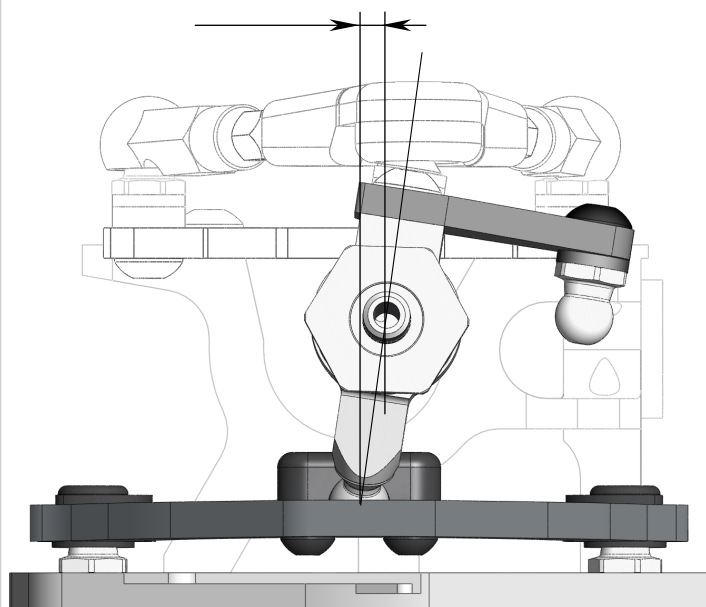
### Roll Center adjustment:

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.





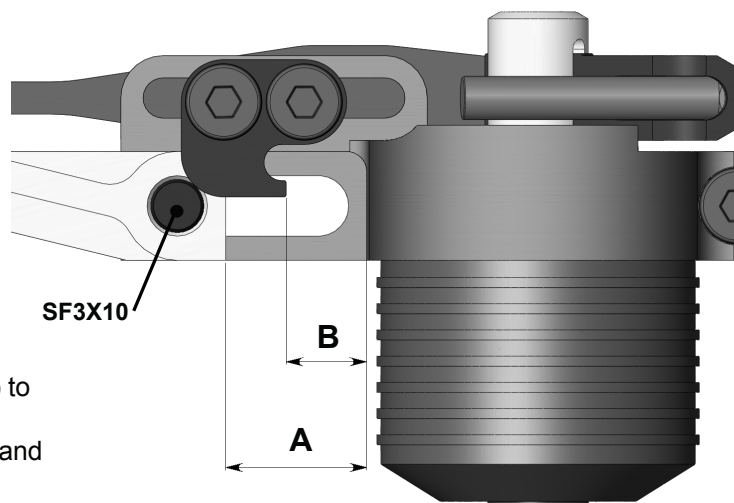
## SHOCK SETTING TECHNIQUE

**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.

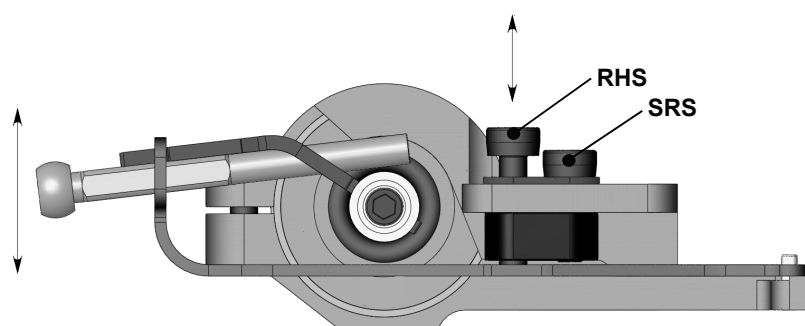


### 2. Shock Spring preload setting

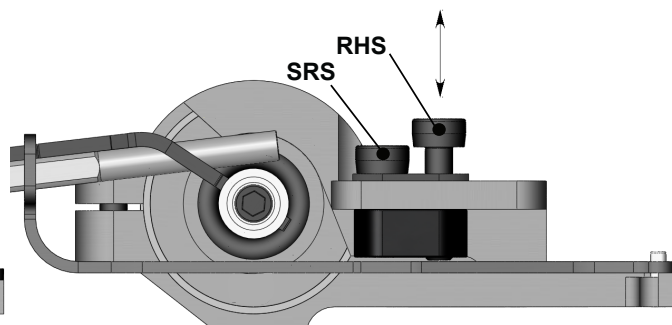
Turn IN (CW) **RHS** Screw to increase spring preload.  
Turn OUT (CCW) **RHS** Screw to decrease spring preload.  
Use Spring preload setting to adjust Ride Height value.

### 3. SRS/RHS Screws arrangements change

The reverse arrangement of these screws is possible also.

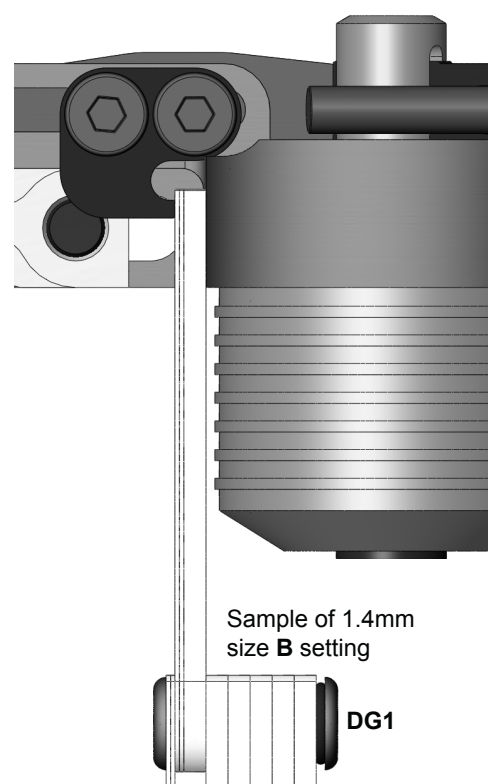
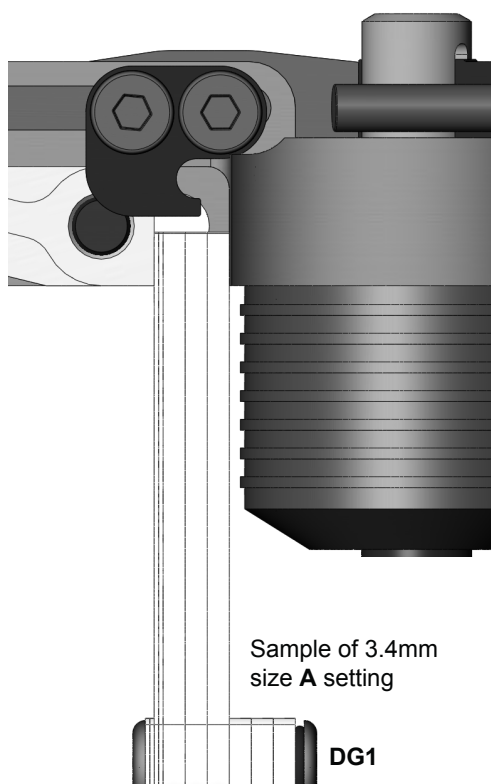
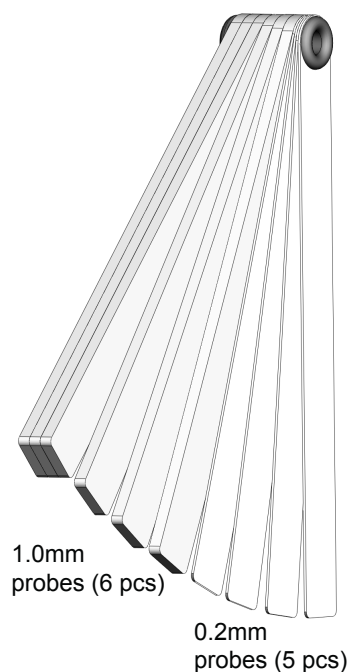


SRS/RHS Screws arrangement I



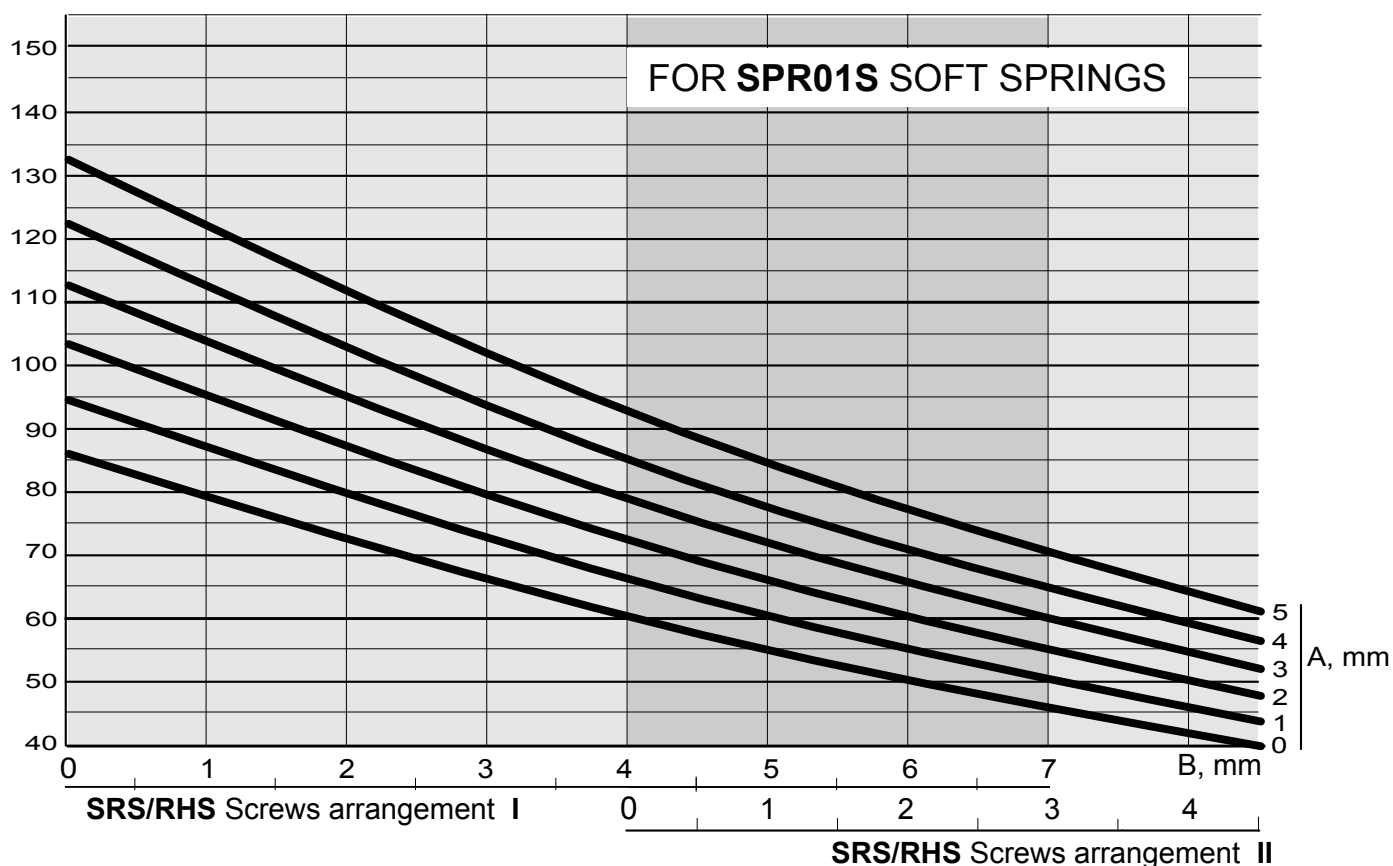
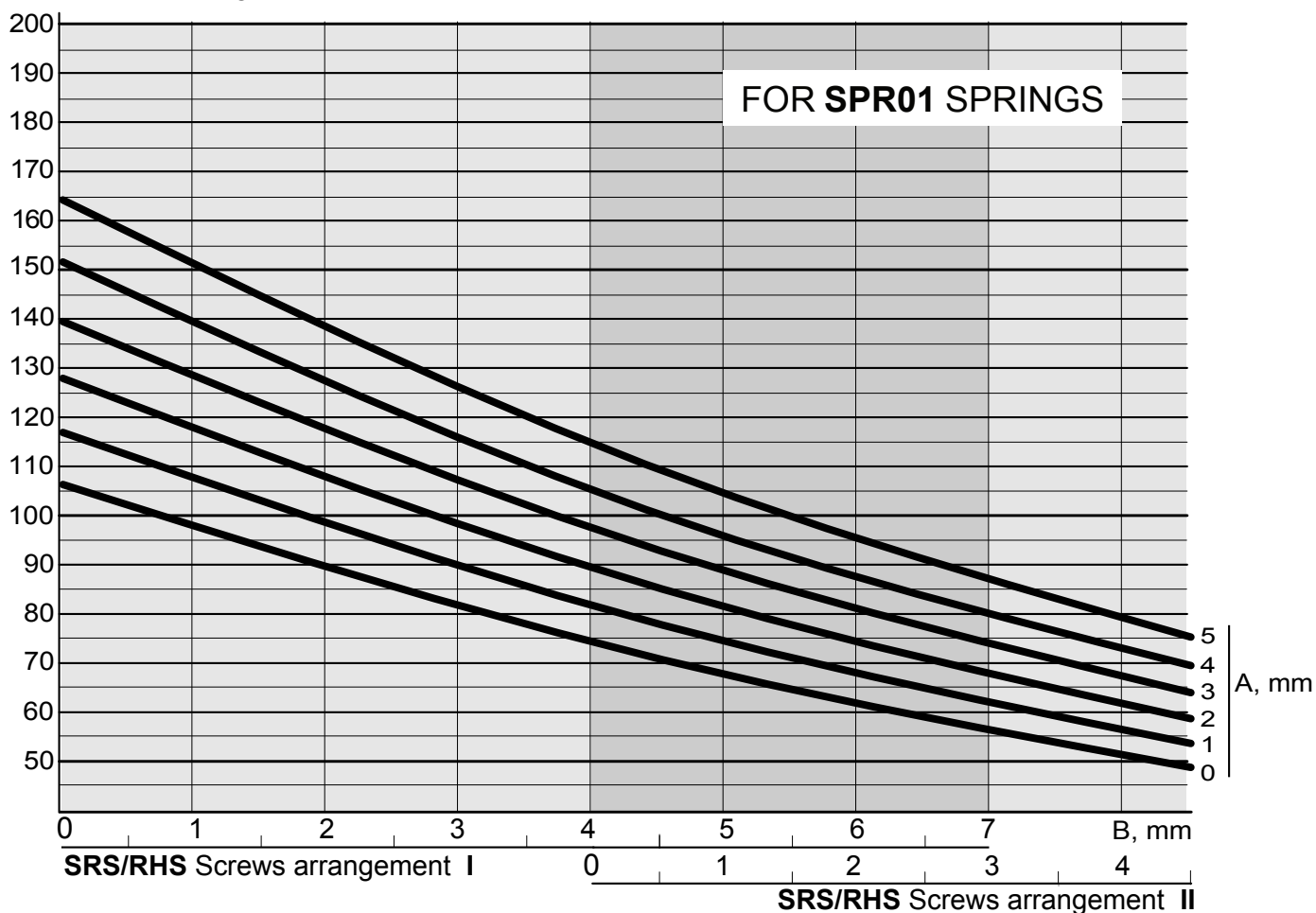
SRS/RHS Screws arrangement II

### 4. Using of DG1 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)

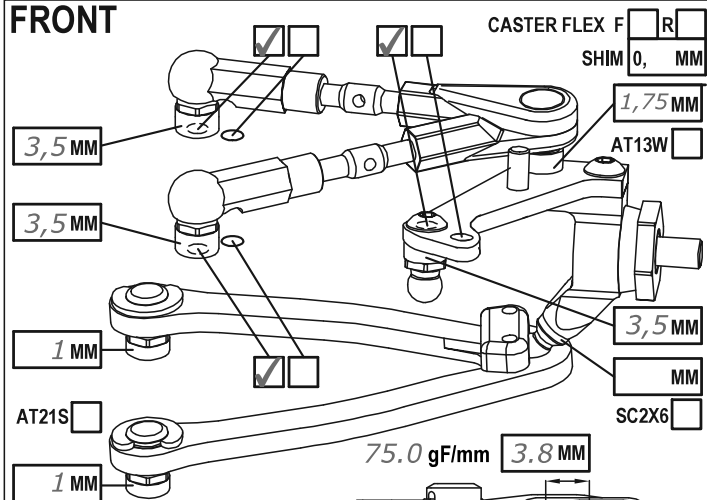




NAME Initial Carpet setup  
COUNTRY \_\_\_\_\_  
RACE \_\_\_\_\_  
TRACK \_\_\_\_\_

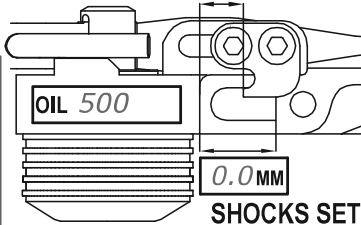
DATE \_\_\_\_\_ TEMP. °C AIR / TRACK °C / °C  
ASPHALT ☐ (OUTDOOR ☐ INDOOR ☐ CARPET ☒  
TRACK CONDITION TECHNICAL ☐ MIXED ☒ FAST ☐  
TRACTION LOW ☐ MEDIUM ☒ HIGH ☐

### FRONT



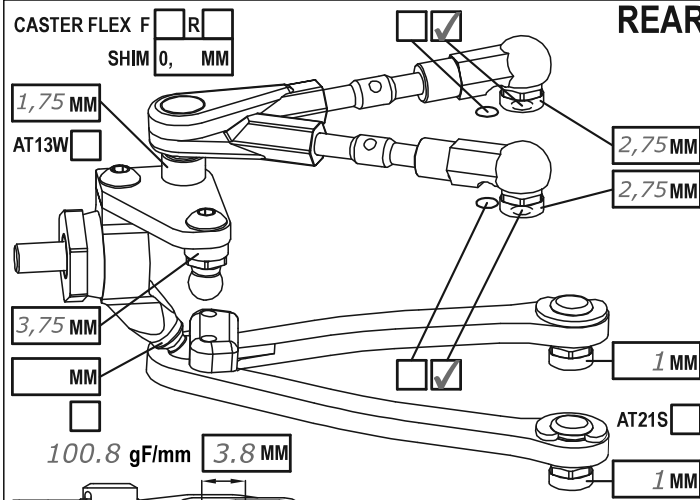
CAMBER ANGLE / ° 2  
CASTER ANGLE / ° 4  
TOE ANGLE / ° 1 out  
RIDE HEIGHT / MM 5,2  
DOWNSTOP / MM 5,6

UPWNSSTOP / MM \_\_\_\_\_  
STABILIZER Ø / MM 1,0  
LOW ARM C04M1 ☒ ☐  
STEER. ARM AM14A ☒ ☐  
WHEEL SPACER / MM \_\_\_\_\_  
FRONT DRIVE GD3 ☐ SPOOL ☒ GB2B ☐ LOW ☒ HIGH ☐  
DIFF. OIL \_\_\_\_\_ DIFF WASHERS \_\_\_\_\_  
DOGBONE DRIVE ST17 ☐ ST11 ☒ ST12 ☐ BB ☐ ST02 ☐  
WHEELHUB AM06WL ☒ AM06S-M ☐ AM06W ☐



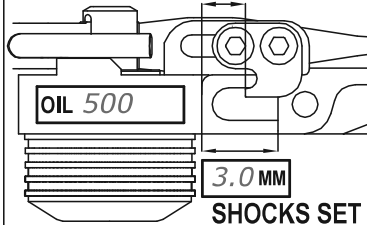
SHOCKS SET  
ROTOR STD ☒ ☐  
SPRING STD ☒ S ☐  
DAMPER D2.2 ☒ ☐  
ACTION SYM. ☒ ASYM. ☐  
SRS/RHS ARR. I ☒ II ☐

### REAR



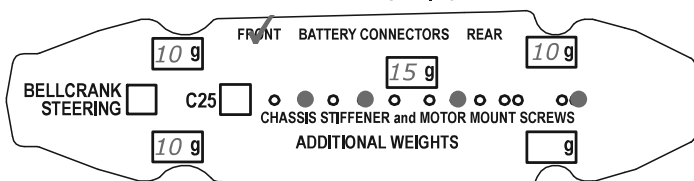
CAMBER ANGLE / ° 2  
CASTER ANGLE / ° -4 short  
TOE ANGLE / ° 3  
RIDE HEIGHT / MM 5,4  
DOWNSTOP / MM 4,4

UPWNSSTOP / MM \_\_\_\_\_  
STABILIZER Ø / MM 1,1  
LOW ARM C04M1 ☒ ☐  
STEER. ARM AM23 ☒ ☐  
WHEEL SPACER / MM \_\_\_\_\_  
REAR DRIVE GD3R ☐ GB2B ☒ LOW ☒ HIGH ☐  
DIFF. OIL 5k DIFF WASHERS std WA03  
DOGBONE DRIVE ST11 ☒ ST12 ☐ BB ☐ ST17 ☐ EVD ☐  
WHEELHUB AM06WL ☒ AM06S-M ☐ AM06W ☐



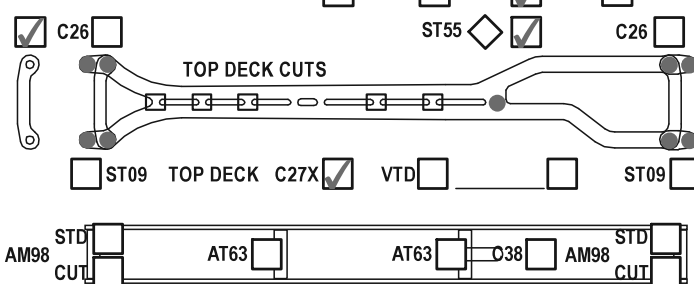
SHOCKS SET  
ROTOR STD ☒ ☐  
SPRING STD ☒ S ☐  
DAMPER D2.2 ☒ ☐  
ACTION SYM. ☒ ASYM. ☐  
SRS/RHS ARR. I ☒ II ☐

### FRAME FLEX SETTING



### LOWER DECK

CHASSIS STIFFENER AM110 ☐ AM115 ☐ ST130 ☒ ST165 ☐



FL FR RL RR TIRES FRONT REAR  
BRAND \_\_\_\_\_  
INSERTS \_\_\_\_\_  
WHEELS \_\_\_\_\_  
ADDITIVE \_\_\_\_\_

MOTOR LATERAL SHIFT / MM 0 ACKERMANN SHIMS / MM 0  
MOTOR \_\_\_\_\_ SERVO \_\_\_\_\_  
SPUR PINION RATIO 0.00 STEER TRAVEL IN \_\_\_\_\_ OUT \_\_\_\_\_  
BODY \_\_\_\_\_ BATTERY \_\_\_\_\_  
WING \_\_\_\_\_ RECEIVER \_\_\_\_\_  
ESC \_\_\_\_\_ RADIO \_\_\_\_\_  
ESC SETTING \_\_\_\_\_  
BEST LAPTIME \_\_\_\_\_ QUALIF./FINAL POSITION \_\_\_\_\_ / \_\_\_\_\_  
CONTACT \_\_\_\_\_

COMMENTS

## Standard Spare Parts

Parts#	Description	Parts#	Description
AM05-2	Rear Holder	P15H-3	Foam Bumper Hard
AM06WL	Steering Block	P16	Lock Ring
AM14A	Steering Arm	P23	Outer Battery Holder
AM15-3	Battery Nut	P25	Battery Clamp
AM17XL	Damper Holder L	P39	GD2 Cross Pin
AM17XR	Damper Holder R	P45	Damper Sponge Piston
AM19-2	Upper Arm Holder	P46	Diff Sponge Piston
AM23-1	Rear Steering Arm	P56	Antenna Holder
AM24-8	Central Servo Holder	P58	Belt Tensioner
AM77X	Motor Mount	P110	Bearing Housing
AM78X	Bulkhead	P138	38T Pulley
AM88R	Shock Holder R	P138S	Spool 38T Pulley
AM88L	Shock Holder L	C01B-AX	Lower Deck Alloy
AM86	LS1 Steering Plate	C01B-X	Lower Deck Carbon
AT03BX	Spool Axle	C01B-AXH	Lower Deck Alloy Hard
AT13	Wheel Hex	C04M1	Suspension Arm
AT14	Turnbuckle	C26	Top Stiffener
AT21	Pivot Ball	C27X	Top Deck
AT21S	Pivot Ball Short	SWB10	Sway Bar 1.0mm
AT25	Turnbuckle Long	SWB11	Sway Bar 1.1mm
AT40-1	Damper Cup	SWB12	Sway Bar 1.2mm
AT41-2	Damper Vane	SPR01	Shock Spring
AT42-1	Damper Case	SPR02X	Shock Rod Guide
AT52	Bellcrank Post	SPR03	Shock Pointer
AT55	Spur Nut	SPR05	Body Clip
AT62	Spur Holder	SPR07	E-Ring
AT67	Pulley Washer	SH0.5	6x3x0.5mm Spacer (Silver)
AT71	LS1 Steering Rack	SH1.0	6x3x1.0mm Spacer (Gray)
AT120	20T Alloy Pulley	SH1.75	6x3x1.75mm Spacer (Black)
AT123B	GD2B Case1	SH0.1	6x8x0.1mm Shim
AT124B	GD2B Case2	WA02	3x5x0.2 Washer
AT142	Sway Bar Stopper	WA03	5x15x0.3 Washer
DT08	Pulley Flange	PIN01	1.5x7.8 Pin
DT12	LS1 Steering Bushing	PIN02	1.5x5.8 Pin
DT13	LS1 Steering Shim	OR13	1x13 mm O-ring
ST01	Front Axle	OR05M	GD O-Ring Medium
ST02	Rear Axle	OR06	5.5mm O-RING
ST03	Ball Stud	OR155	Damper O-Ring
ST05L	Shock Rod	OR18	1x8mm O-ring
ST10	2mm Pin	B106RS	MR106RS Bearing
ST11	Bushing R	B85	MR85 Bearing
ST13	Front Universal Bone	B84RS	MR84RS Bearing
ST14	Rear Universal Bone	B63SS	MR63ZZ Bearing
ST16	U-Joint Cross	SRS	Spring Rating Screw
ST17-1	Universal Ring	RHS	Ride Height Screw
ST019	Top Deck Screw	SC2X4	M2x4 Cap Head Screw
ST23	GD Outdrive	SC2X6	M2x6 Cap Head Screw
ST24	4,8x6mm Ball Stud	SB2.5X8	M2.5x8 Button Head Screw
ST31-1	GD2 Output Axle	SS3X3	M3x3 Set Screw
ST37	Spool Outdrive	SS3X4	M3x4 Set Screw
ST38	Universal Nut	SS3X5	M3x5 Set Screw
ST55	Top Deck Bushing	SB3X5	M3x5 Button Head Screw
ST105	5g Round Weight	SB3X6	M3x6 Button Head Screw
ST110	10g Round Weight	SB3X8	M3x8 Button Head Screw
ST130	30g Chassis Stiffener	SB3X10	M3x10 Button Head Screw
G07	GD2 Satellite Gear	SF3X5	M3x5 Flat Head Screw
G08	GD2 Bevel Gear	SF3X6	M3x6 Flat Head Screw
D2.2	D2.2 Damper	SF3X8	M3x8 Flat Head Screw
P01	Ball Joint-1	SF3X10	M3x10 Flat Head Screw
P02	Ball Joint-2	BEL189B	Belt 189 mm Bando
P03	Arm Ball Cap	BEL513B	Belt 513 mm Bando
P04	Arm Hasp	DG1	Damper Guage Set
P05	Sway Bar Joint	INS-A800X	A800X Instruction Manual
P07	Arm Clip	STS-A800	A800 Stickers Sheet
P09	Shock Screw Holder		
P12X	Sway Bar Holder		
P13-4	Ball End		
P14	Bumper Set		

## Optional Parts

Parts#	Description
AM74	Steering Bellcrank
AM79	Steering Rack
AM110	10g Chassis Stiffener
AM115	15g Chassis Stiffener
C04M1+0.5	Suspension Arm Long
C04AL	Alloy Suspension Arm
C04AL1+0.5	Alloy Suspension Arm Long
C07	Carbon bumper
C25	Steering Stiffener
C27	Top Deck
ST09	Upper Collar
ST12	Bushing S
ST17	Universal Ring
ST17-1-S	Universal Ring Set
ST24M	4,8x8mm Ball Stud
ST24L	4.8x10mm Ball Stud
ST165	65g Chassis Stiffener
AT03B	Spool Axle
AT06	Antenna Holder
AT13W	Wheel Hex Wide
AT21+0.5S	Offcet Hole Pivot Ball
AT22	Rear Body Holder
AT58	Belt Tensioner
AM06W	Steering Block
AM12-1	Alloy Battery Holder
AM19-4	Upper Arm Holder
AM87	Bumper Brace
P20	Front Universal Ring
P40F	Servo Arm (Futaba)
P40K	Servo Arm (KO)
P138LF	38T Pulley Low Friction
P138LFS	Spool 38T Pulley Low Friction
RHS-P	Precise Ride Height Screw
SH3X5X0.1	3x5x0.1mm Shim
SH3X5X0.5	3x5x0.5mm Shim
SH4X6X0.1	4x6x0.1mm Shim
SPR01-98	Shock Spring 98 Deg
SPR01S	Shock Spring Soft
SPR01S-98	Shock Spring Soft 98 Deg
SWB13	Sway Bar 1.3mm
D2.2-S	Damper Set
FCB	Flexible Caster Block Set
BC1	Battery Clamp Set
UB1	Universals Bearings 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
BEL189M	Belt 189 mm MBL
BEL513M	Belt 513 mm MBL
DT10-2-1	Bearing Housing
DT10-3	Bearing Housing



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**Email: [support@awesomatix.com](mailto:support@awesomatix.com)**