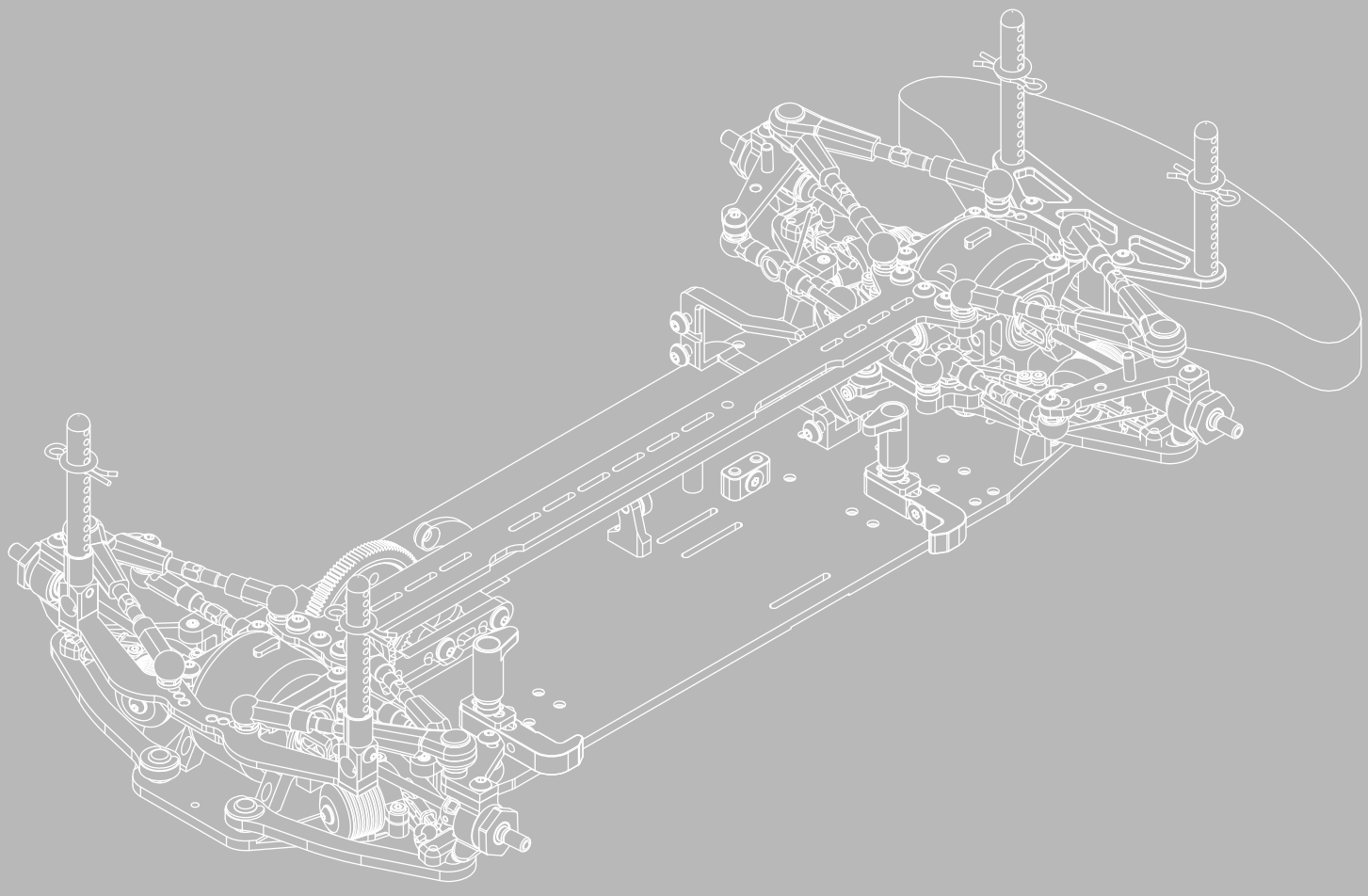
AWESOMATIX®

# A700EX
# A700L

## 1/10-SCALE TOURING CAR



# INSTRUCTION MANUAL

# INTRODUCTION

Congratulations on purchasing your Awesomatix car!
The A700L and A700EX cars were designed in Russia and produced by Awesomatix Innovations LLP registered in UK.
The A700L and A700EX cars utilise many unique features, including some patented innovations.

## BEFORE YOU START

The A700L and A700EX are the high-quality, innovative 1/10-scale touring cars 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.
If, for any reason, you decide that you do not want your A700, you must not begin assembly. Your A700L or A700EX cannot be returned to Awesomatix Innovations LLP 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 A700L and A700EX cars are designed for use on r/c car race tracks. It should not be used in general public areas.
Awesomatix Innovations LLP 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.


## 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 A700L or A700EX 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.

## 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 LLP 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 or 4-6 Cell Sub-C NiMH Battery Pack
- Battery Strapping Tape
- 190mm Body Shell
- M4mm Wheel Nuts
- Touring Car Wheels, Tires, Inserts

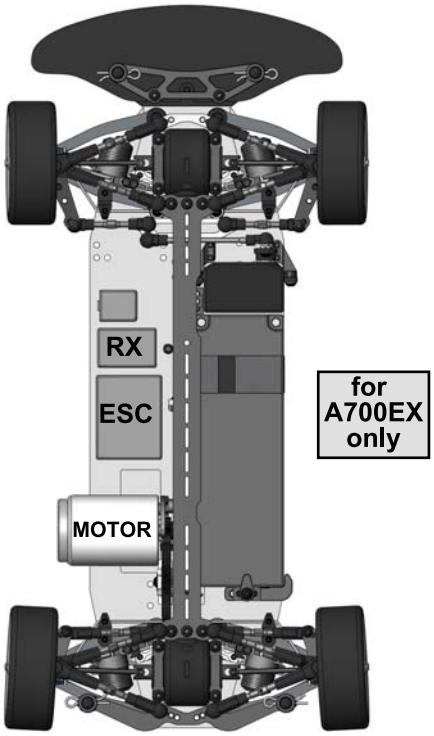
## TOOLS RECOMMENDED (NOT INCLUDED)

- 1.5mm, 2.0mm Hex Driver
- 2.0mm Ball End Hex Driver
- 5.5mm, 7mm, 9mm, 10mm, 12mm Wrench
- 2.5mm Flat Screwdriver
- Callipers
- Hobby Knife
- Camber Gauge
- Ride Height Gauge
- Thin CA Glue
- Thread Lock
- Diff Silicone Oil
- Thrust Grease, Diff Grease, Joint Grease

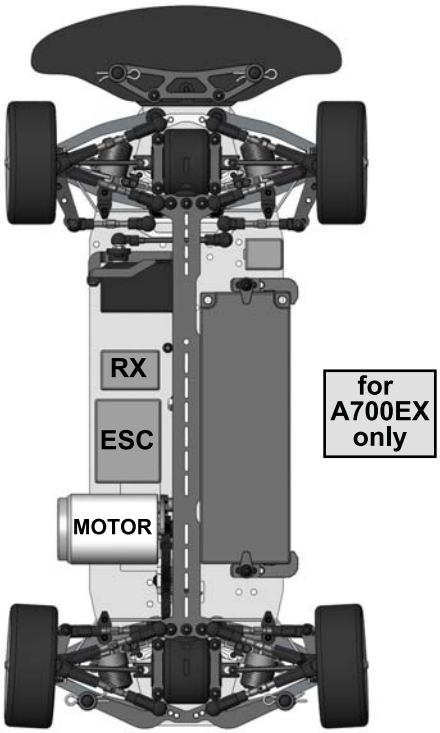
## LET'S START

Four main configurations of the A700EX car layout are possible.
One main configuration of the A700L car is possible.
Some building steps have different variants depending on a desirable configuration.
The steps of building that suitable only for A700EX version are marked by the symbol **for A700EX only**

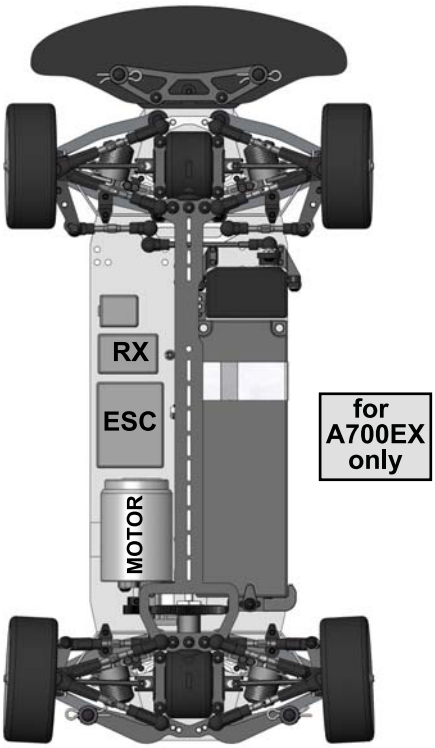
**I.** Motor layout - transverse
Servo location - right side



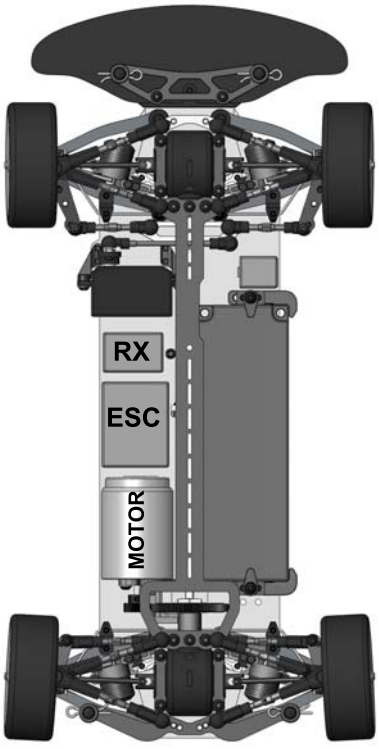

**II.** Motor layout - transverse
Servo location - left side




**III.** Motor layout - longitudinal
Servo location - right side

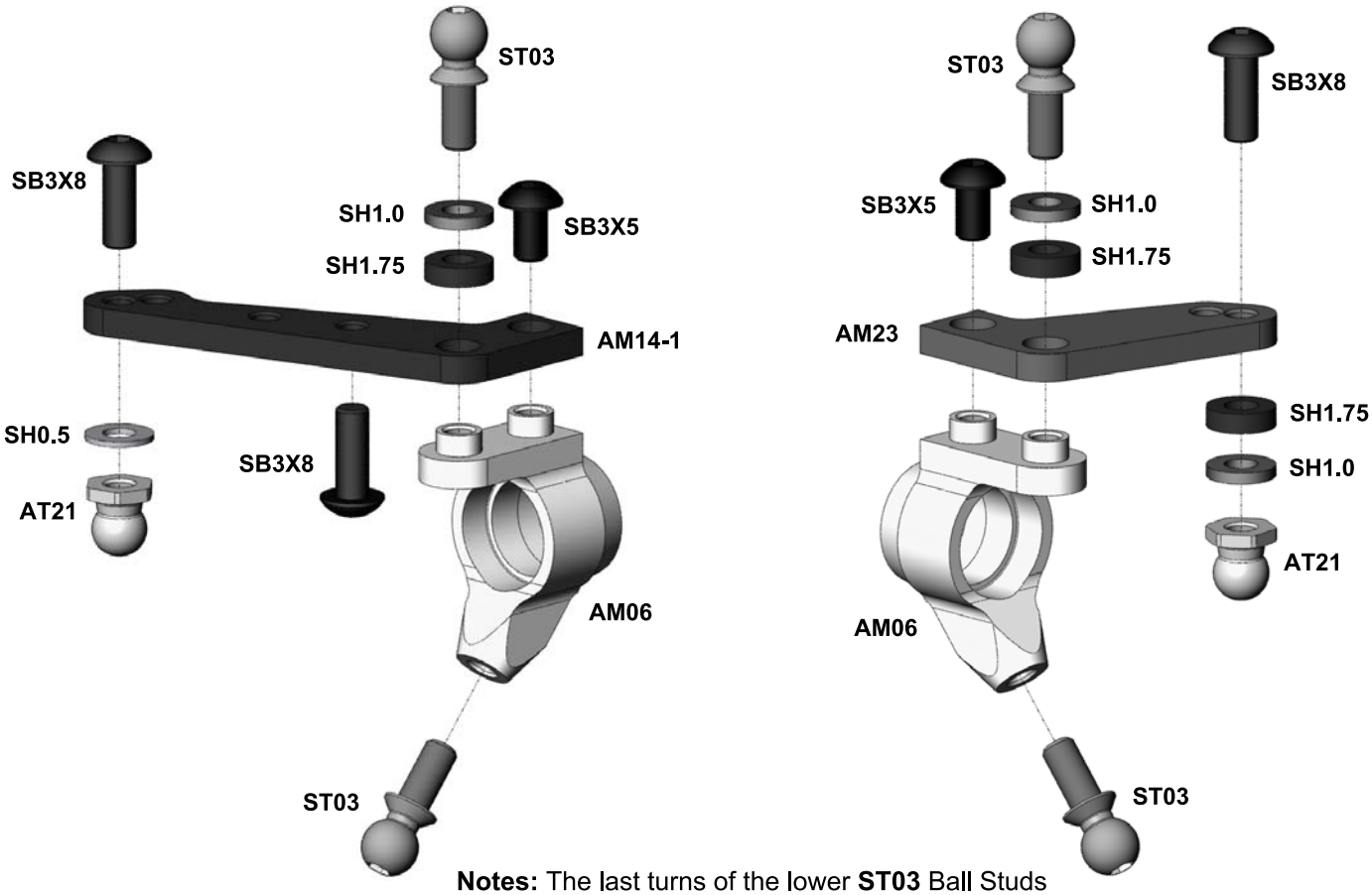



**IV.** Motor layout - longitudinal
Servo location - left side




Longitudinal motor layout is good for 8.5T - 17.5T motors due to minimal transmission power loss and lower drive train ratio of **2.08**. Drive train ratio at transverse motor layout is **2.55**.
Right-side servo location is recommended for low-profile servos only and provides beneficial weight distribution.
Left-side servo location is possible for both standard and low-profile servos and provides wider weight balance range.

## STEP 1

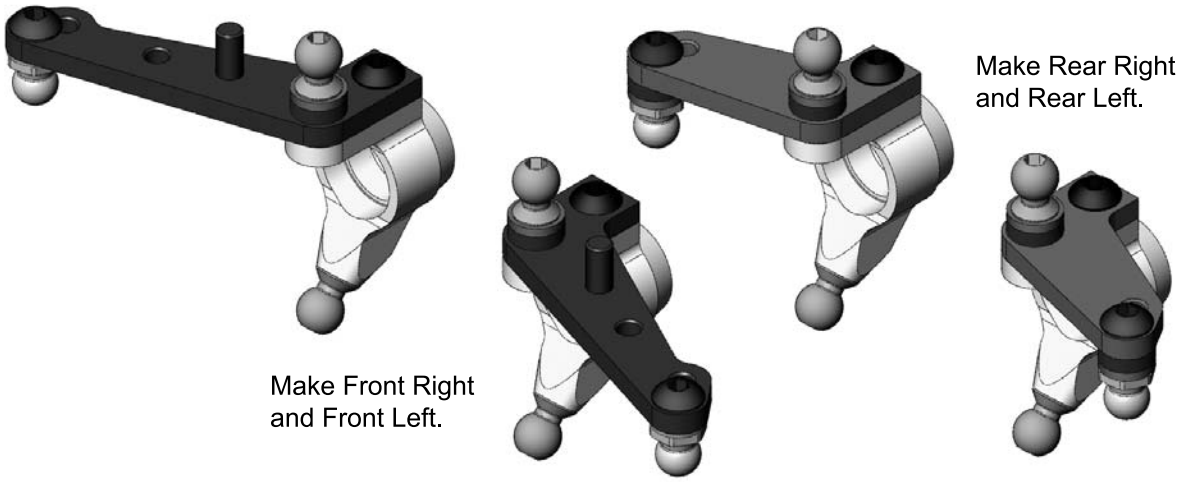



**Notes:** The last turns of the lower **ST03** Ball Studs and SB3X5 screws are tight. Screw them with force.

| | | | | | |
|---|---|---|---|---|---|
| **SB3X5** | M3x5 Button Head Screw | x4 | **ST03** | Ball Stud | x8 |
| **SB3X8** | M3x8 Button Head Screw | x6 | **AM06** | Steering Block | x4 |
| **SH0.5** | 6x3x0.5mm Spacer (Silver) | x2 | **AM14-1** | Steering Arm | x2 |
| **SH1.0** | 6x3x1mm Spacer (Gray) | x6 | **AM23** | Rear Steering Arm | x2 |
| **SH1.75** | 6x3x1.75mm Spacer (Black) | x6 | **AT21** | Pivot Ball | x4 |

## STEP 1 FINISHED

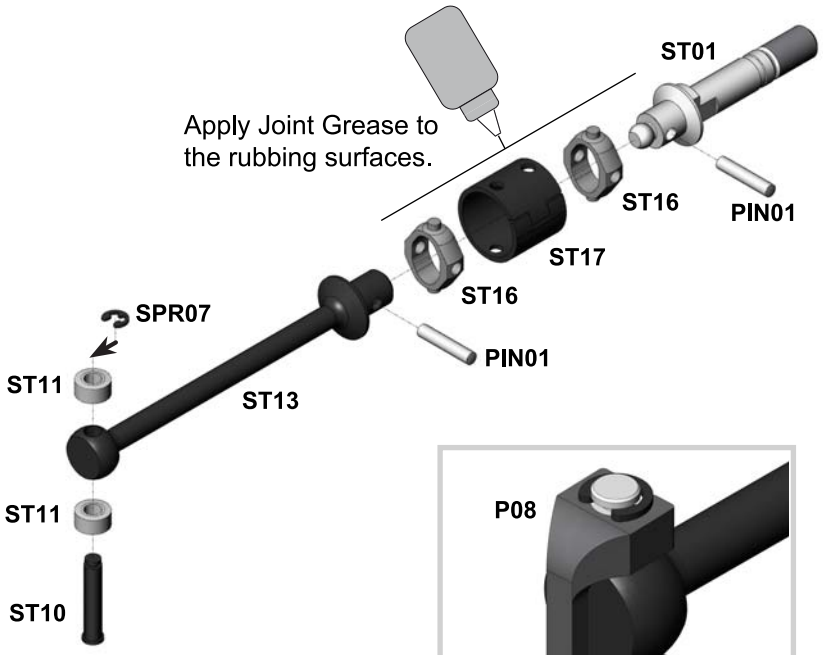
**Notes:** Use other combinations of **SH0.5, SH1.0** and **SH1.75** Spacers under appropriate Pivot Balls and Ball Studs to adjust your car set-up to better suit different track conditions.



Make Front Right and Front Left.

Make Rear Right and Rear Left.

## STEP 2

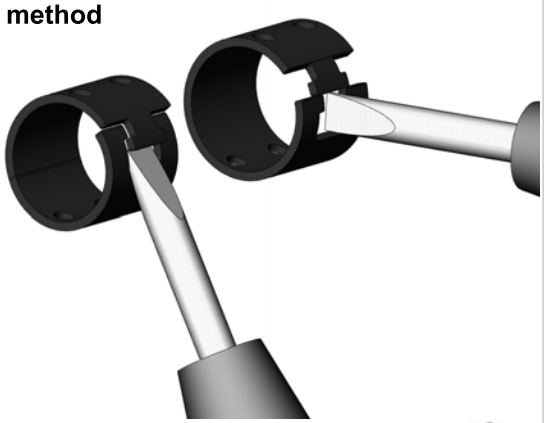


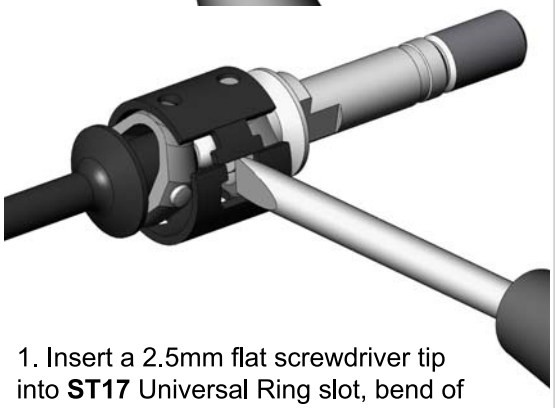




You can use optional **P08** C-Drives or **ST12** Bushings S instead of **ST11** Bushing R.

**Assembling/disassembling method**





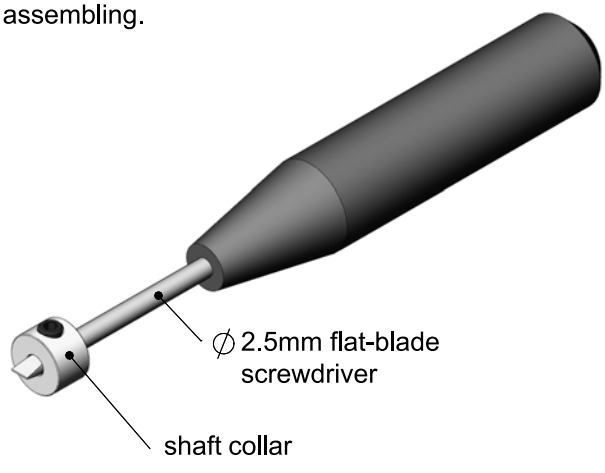
1. Insert a 2.5mm flat screwdriver tip into **ST17** Universal Ring slot, bend of the lug and turn screwdriver through 90 deg.
2. Take out/insert **ST16** U-Joint Cross from/into unclamped **ST17** Universal Ring.

| | | | | |
|---|---|---|---|---|
| **PIN01** 1.5x7.8 Pin | x4 | **ST01** Front Axle | x2 |
| **ST10** 2.0mm Pin | x2 | **ST16** U-Joint Cross | x4 |
| **SPR07** E-Ring | x2 | **ST17** Universal Ring | x2 |
| **ST11** Bushing R | x4 | **ST13** Front Universal Bone | x2 |
| **ST12** Bushing S (optional) | x4 | **P08** C-Drive (optional) | x2 |

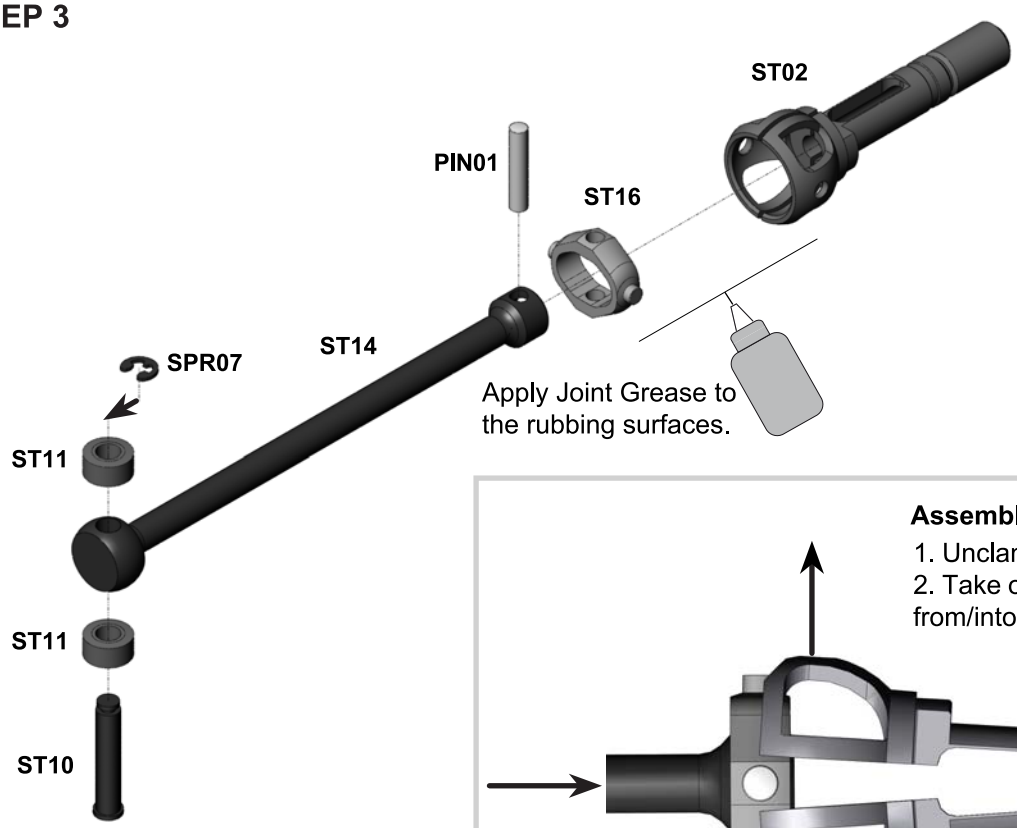
## STEP 2 FINISHED

Make 2 Front Universals.

**Tip:**
Fix a appropriate shaft collar on 1-2mm distance from the screwdriver end.
It will help at the Front Universals assembling.



## STEP 3

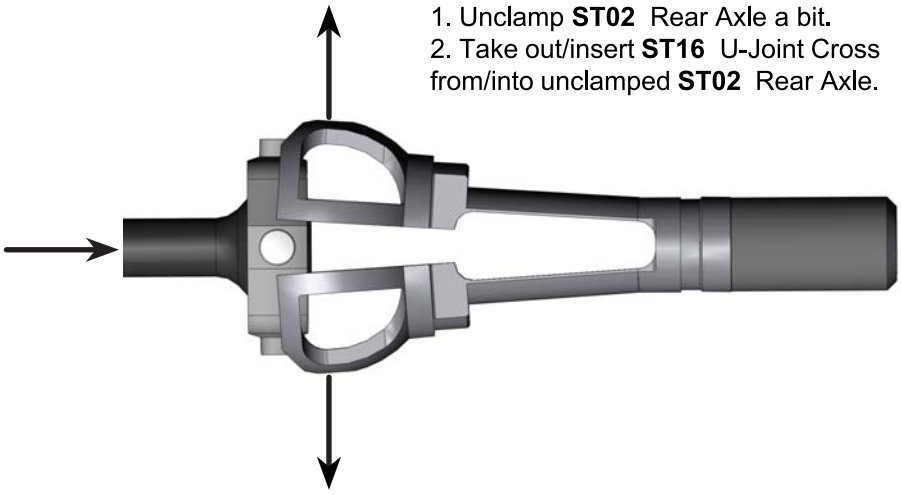




You can use optional **P08** C-Drives or **ST12** Bushings S instead of **ST11** Bushings R.

**Assembling/disassembling method**

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

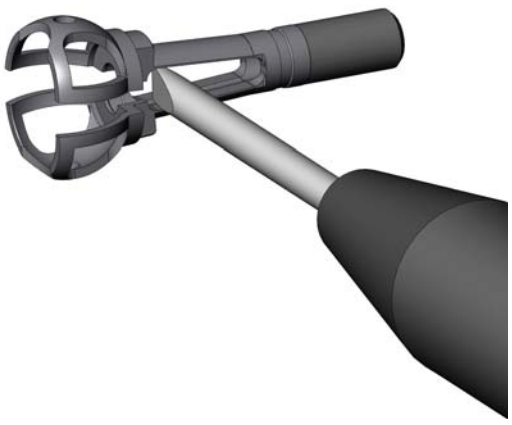


| | | | | | |
|---|---|---|---|---|---|
| **PIN01** 1.5x7.8 Pin | x2 | | **ST02** Rear Axle | x2 |
| **ST10** 2.0mm Pin | x2 | | **ST16** U-Joint Cross | x2 |
| **SPR07** E-Ring | x2 | | **ST14** Rear Universal Bone | x2 |
| **ST11** Bushing R | x4 | | **P08** C-Drive (optional) | x2 |
| **ST12** Bushing S (optional) | x4 | | | |

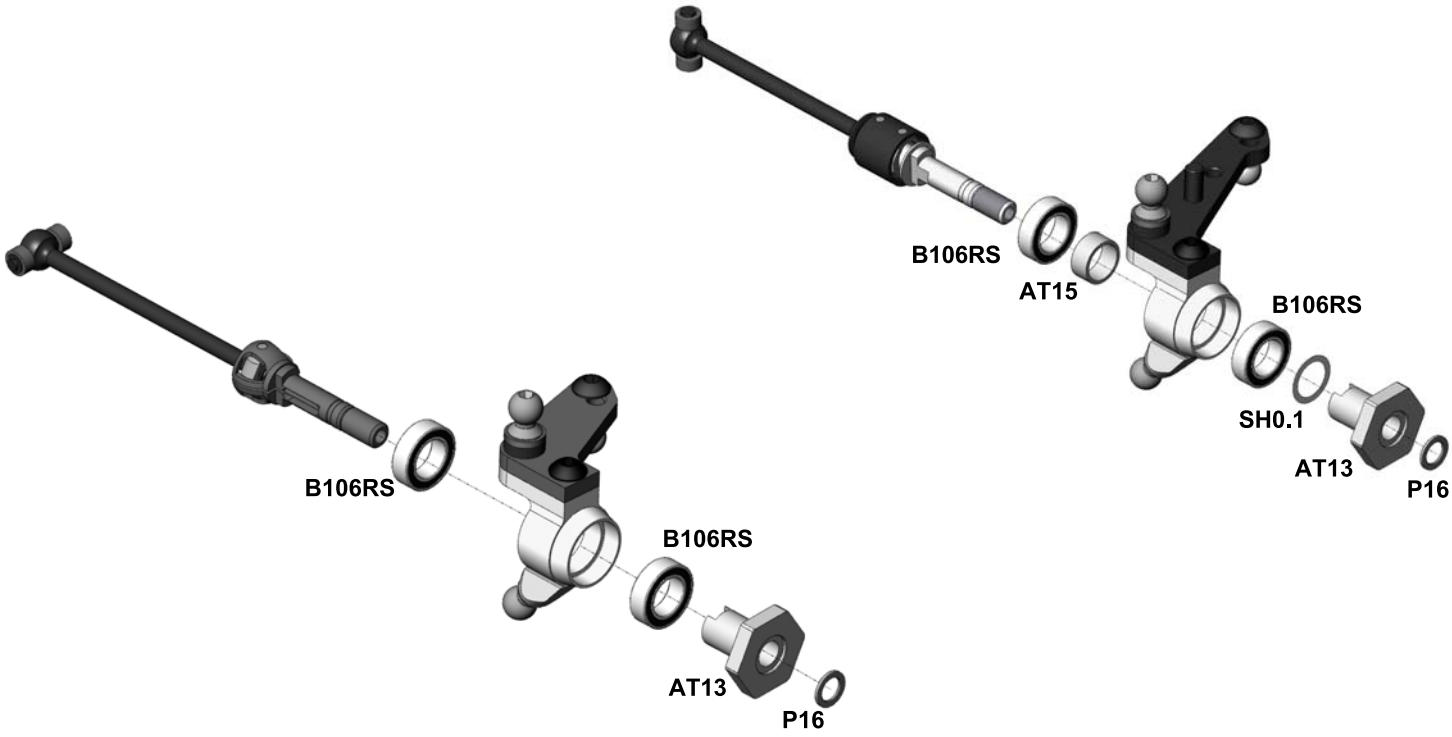
## STEP 3 FINISHED

Make 2 Rear Universals.

**Tip:**
Use a 2.5mm flat screwdriver to unclamp **ST13** Rear Axle.

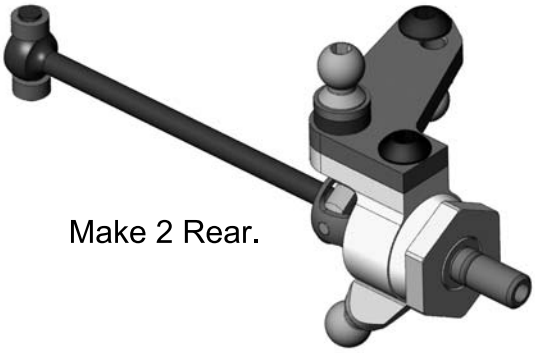


## STEP 4



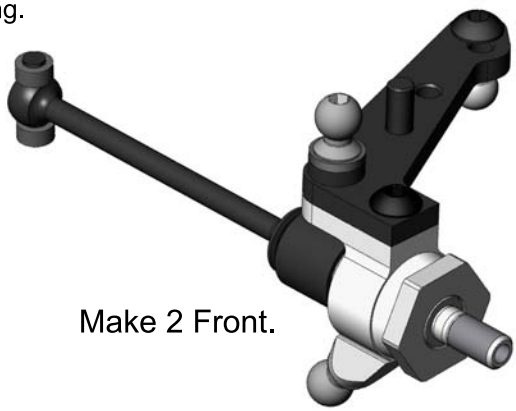

| | | | | | |
|---|---|---|---|---|---|
| **B106RS** | MR106RS Bearing | x8 | **AT15** | Bearing Spacer | x2 |
| **SH0.1** | 6x8x0.1mm Shim | x2 | **AT13** | Wheel Hex | x4 |
| **P16** | Lock Ring | x4 | | | |

## STEP 4 FINISHED

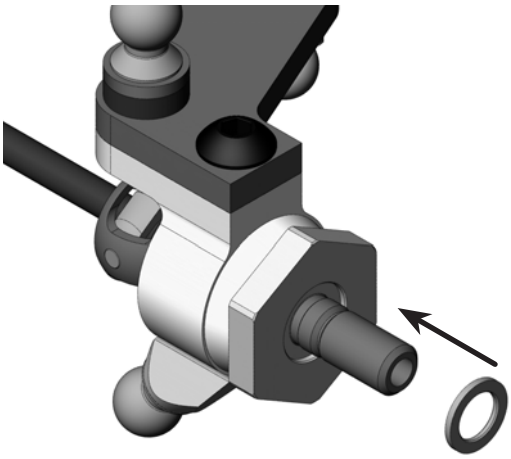


Make 2 Rear.

**Note:**
Rear Universals may be a bit tight at this stage.
But do not worry.
Rear Universals take its true position only after the wheels mounting.

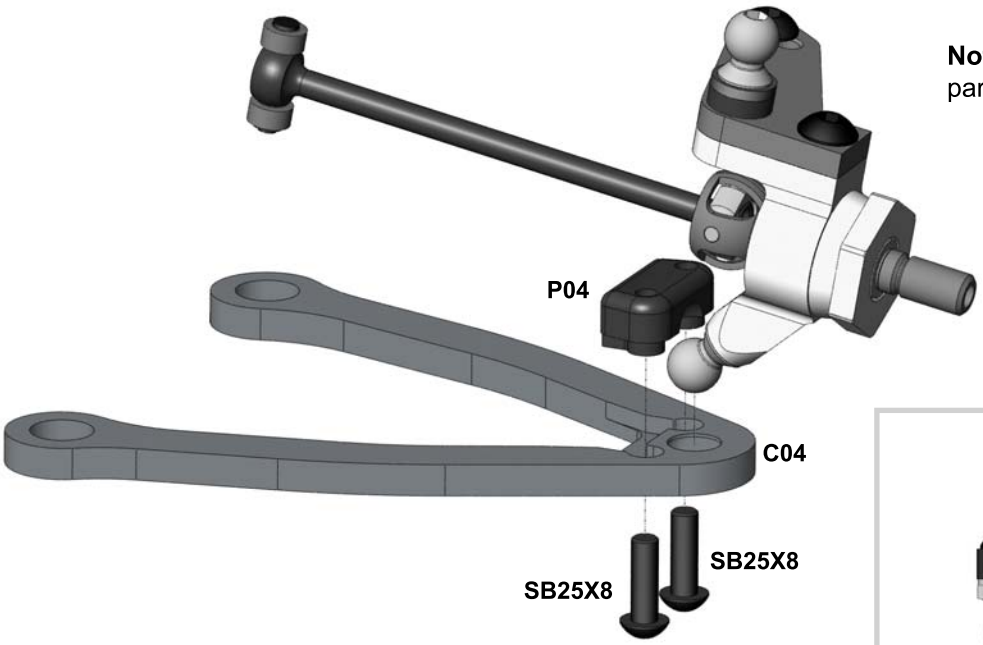


Make 2 Front.

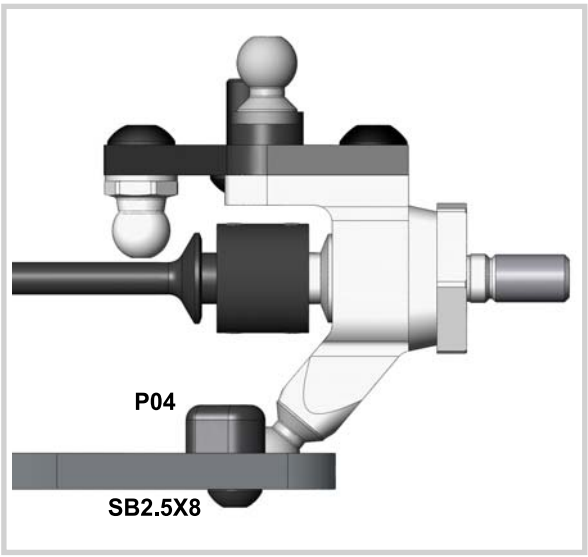


**Note:** Press **P16** Lock Ring on the Axle to fix it.
It will demand the appreciable efforts for the first time.
For disassembly hit to the end face of the Axle or press down on it.

## STEP 5




**Note:** Apply thin CA glue on all C04 parts edges to protect and seal them.



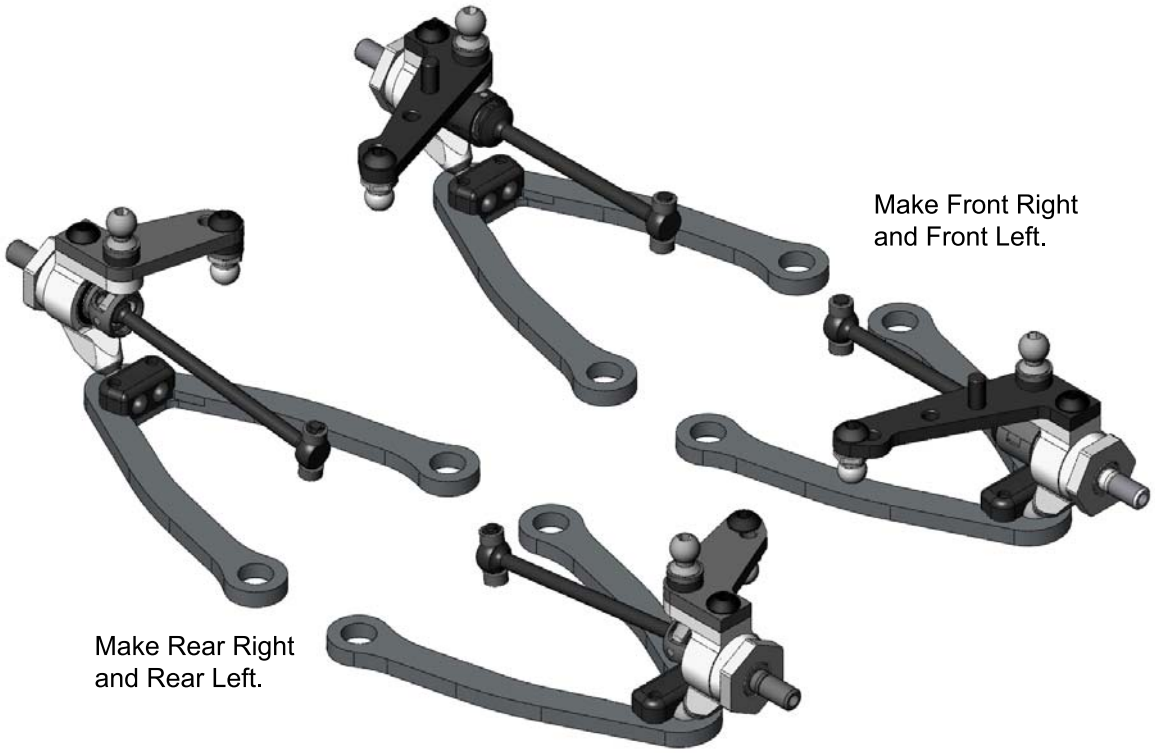

**Note:** Don't overtighten **SB25X8** Screws to avoid **ST03** Ball Stud binding. Achieve the free action of the ball joint with a minimal backlash.

**SB25X8** M2.5x8 Button Head Screw x8

**C04** Suspension Arm x4

**P04** Arm Hasp x4

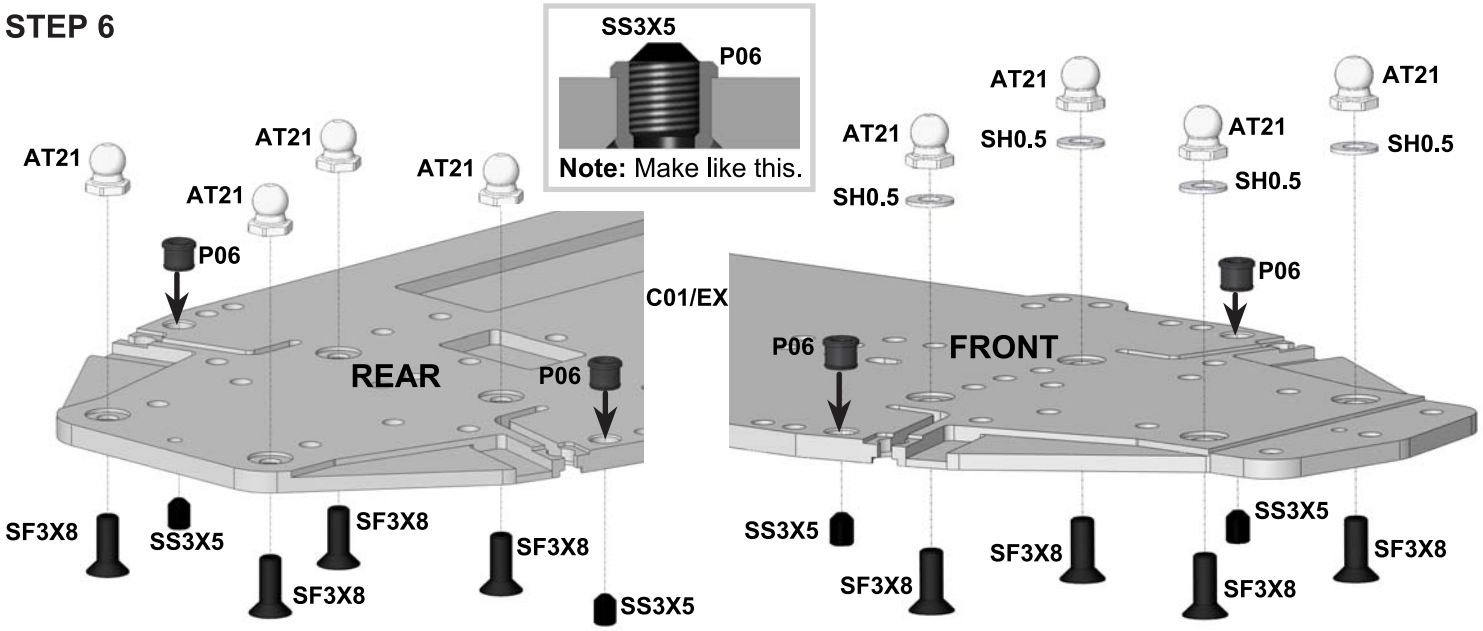
## STEP 5 FINISHED



Make Front Right and Front Left.

Make Rear Right and Rear Left.

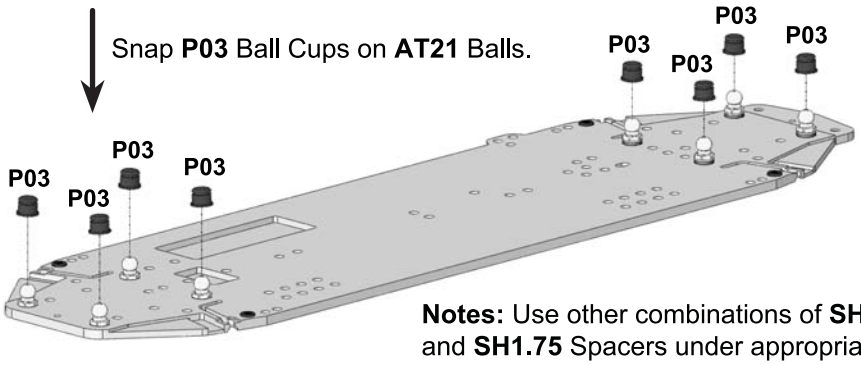
## STEP 6

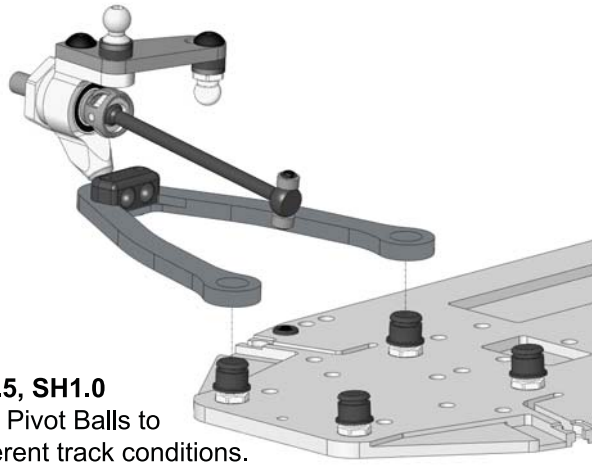



**Note:** Apply thin CA glue on all **C01L/EX** Lower Deck edges to protect and seal them.
Insert **P06** Downstop Collars and use CA glue for fixing them before **SS3x5** screwing.

## STEP 6 (cont'd)

Snap **P03** Ball Cups on **AT21** Balls.

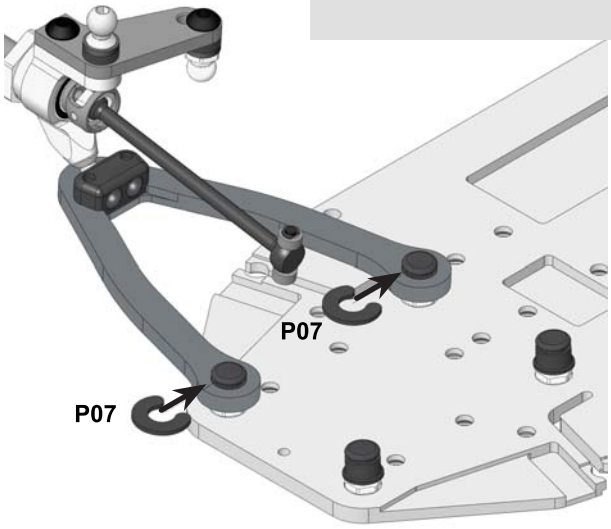


**Notes:** Use other combinations of **SH0.5, SH1.0** and **SH1.75** Spacers under appropriate Pivot Balls to adjust your car set-up to better suit different track conditions.

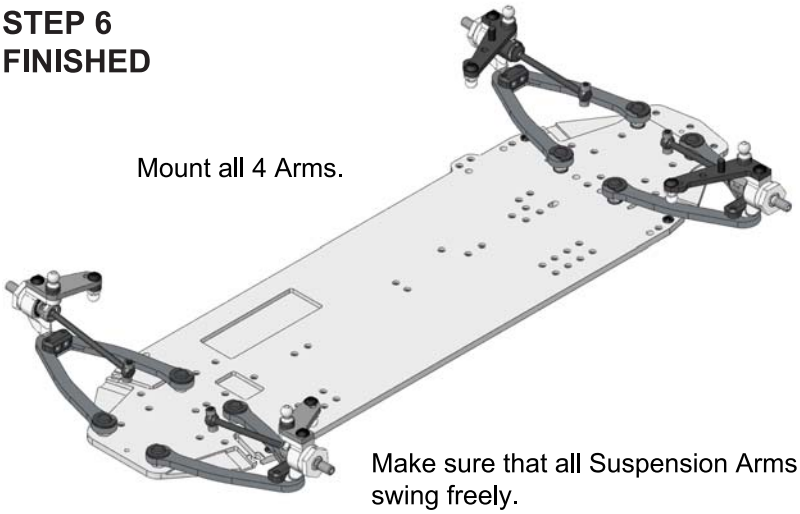
| | | | | | |
|---|---|---|---|---|---|
| **SF3X8** | M3x8 Flat Head Screw | x8 | **AT21** | Pivot Ball | x8 |
| **SS3X5** | M3x5 Set Screw | x4 | **P06** | Downstop Collar | x4 |
| **SH0.5** | 6x3x0.5mm Spacer (Silver) | x4 | **P03** | Arm Ball Cap | x8 |
| | | | **P07** | Arm Clip | x8 |

## STEP 6 (cont'd)



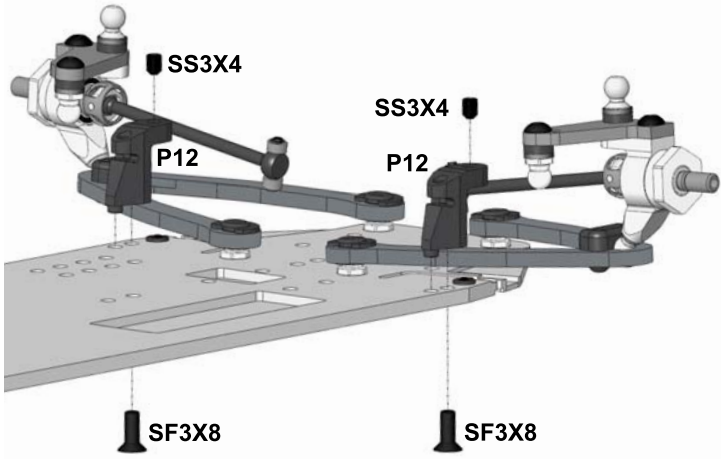

## STEP 6 FINISHED

Mount all 4 Arms.



Make sure that all Suspension Arms swing freely.

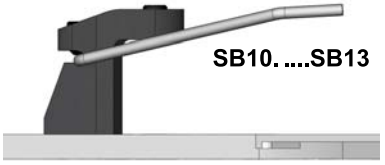
## STEP 7

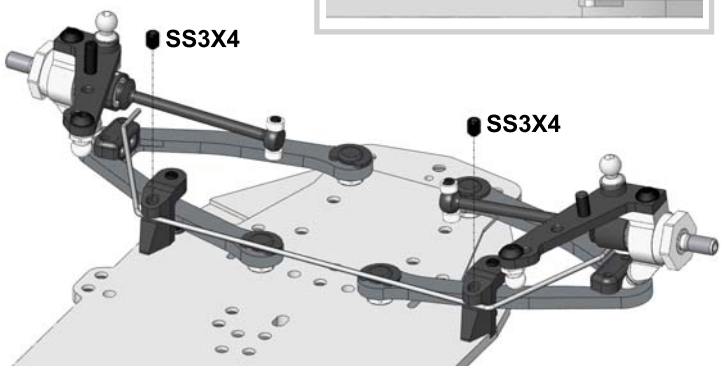



## STEP 8

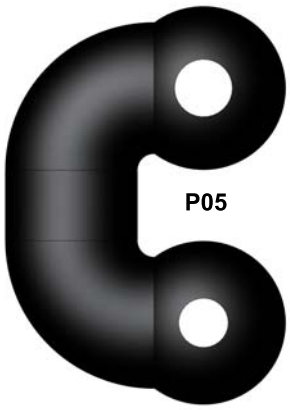
Do not overtighten **SS3X4** Screws to allow Sway Bar to move free.

**Attention!**
The deflected tips of Sway Bar should be directed downwards.



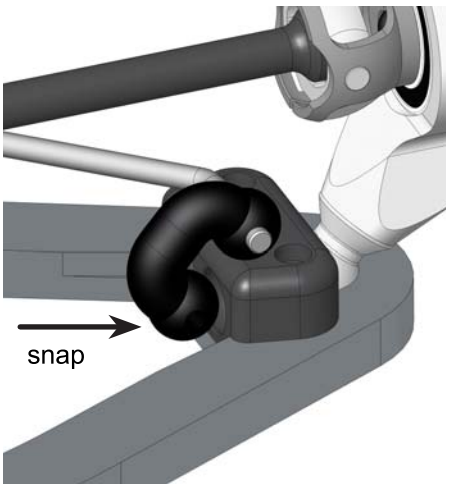



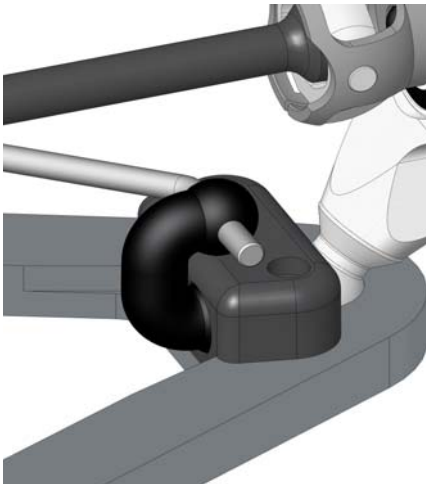

## STEP 8 (cont'd)




Use bigger hole for **SB12** and **SB13** Sway Bars.

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

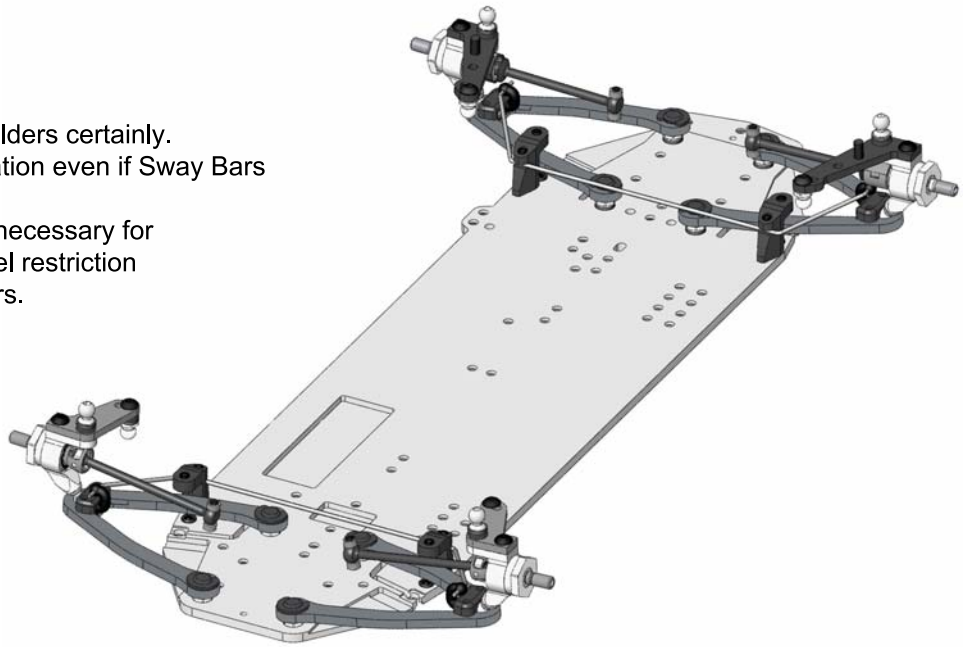


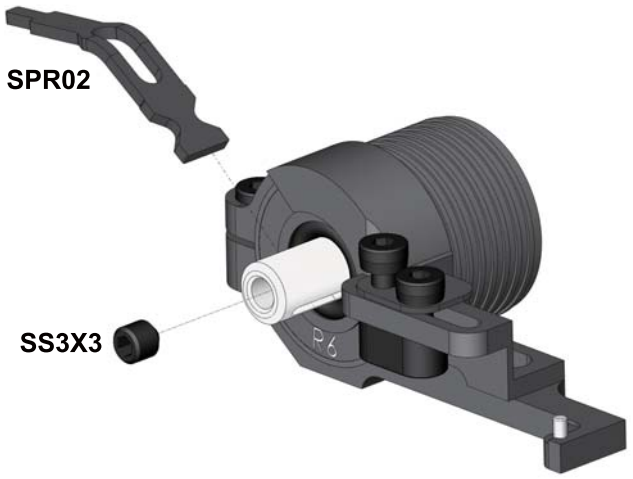
| | | | | | |
|---|---|---|---|---|---|
| **SF3X8** | M3x8 Flat Head Screw | x4 | **P12** | Sway Bar Holder | x4 |
| **SS3X4** | M3x4 Set Screw | x8 | **P05** | Sway Bar Joint | x4 |
| | | | **SWB10....SWB13** | Sway Bar | x2 |

## STEPS 7 and 8 FINISHED

**Attention!**
Mount all 4 **P12** Sway Bar Holders certainly.
They are obligatory for installation even if Sway Bars aren't used.
These Sway Bar Holders are necessary for suspension arms upward travel restriction and setting Upstop parameters.



## STEP 9


**Note: DR6** Right Damper must be used with **AM17R** Right Holder.
**DL6** Left Damper must be used with **AM17L** Left Holder.

## STEP 9 (cont'd)



| | | | | | |
|---|---|---|---|---|---|
| **SC2X6** | M2x6 Cap Head Screw | x4 | **AM17R** | Damper Holder Right | x2 |
| **SRS** | Spring Rating Screw | x4 | **AM17L** | Damper Holder Left | x2 |
| **RHS** | Ride Height Screw | x4 | **DR6** | Damper Right 6 | x2 |
| **SPR03** | Shock Pointer | x4 | **DL6** | Damper Left 6 | x2 |
| **P09** | Shock Screw Holder | x4 | **SPR01S** | Soft Shock Spring | x4 |
| | | | **ST05** | Shock Rod | x4 |

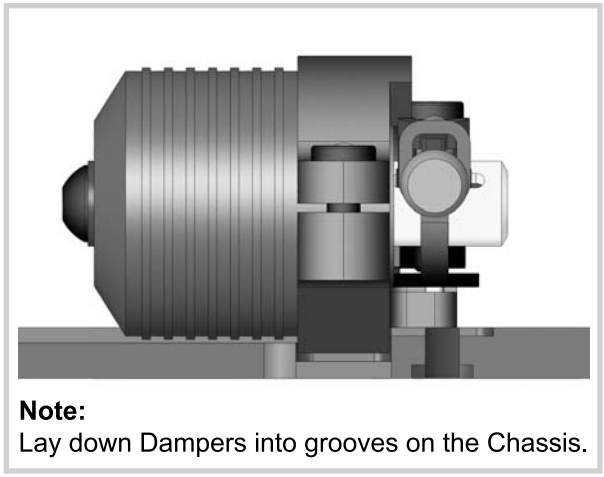
## STEPS 9 FINISHED

Assemble 2 Right Shocks and 2 Left Shocks.

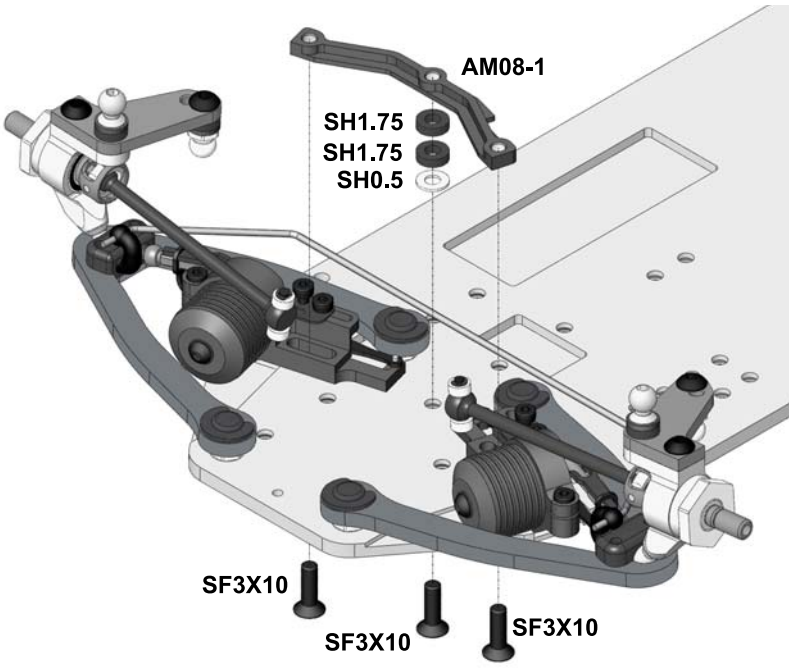


**Note:**
Initial position of **RHS** Ride Height Screw is ~0,6mm.
Don't tighten **SRS** Spring Rating Screw too much to avoid P09 thread damage.

## STEP 10

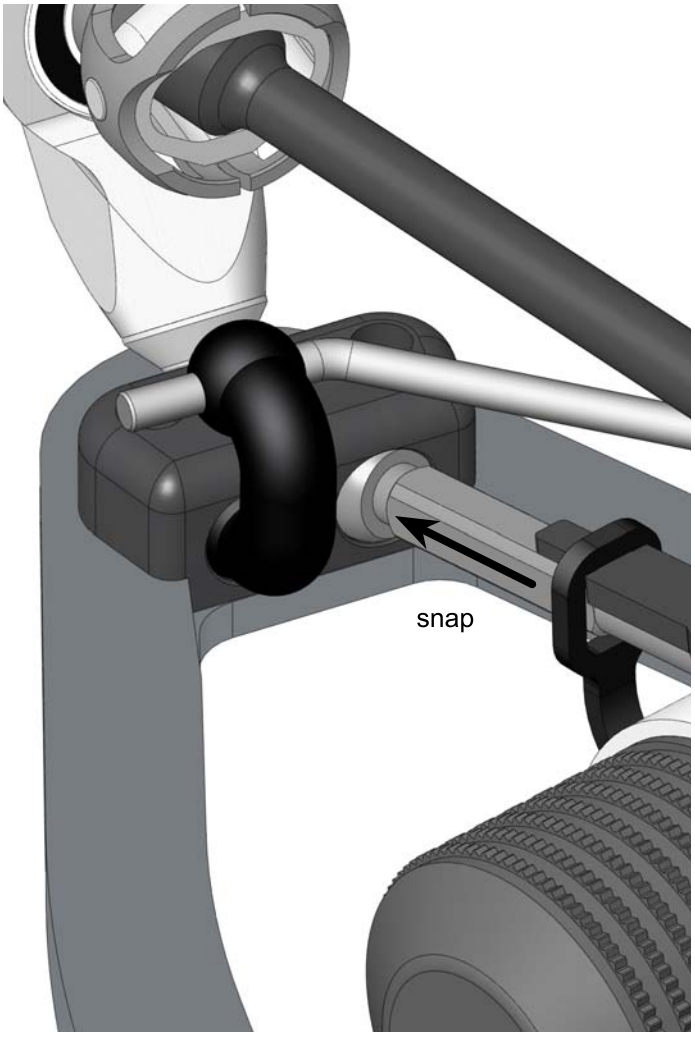


**Note:**
Lay down Dampers into grooves on the Chassis.

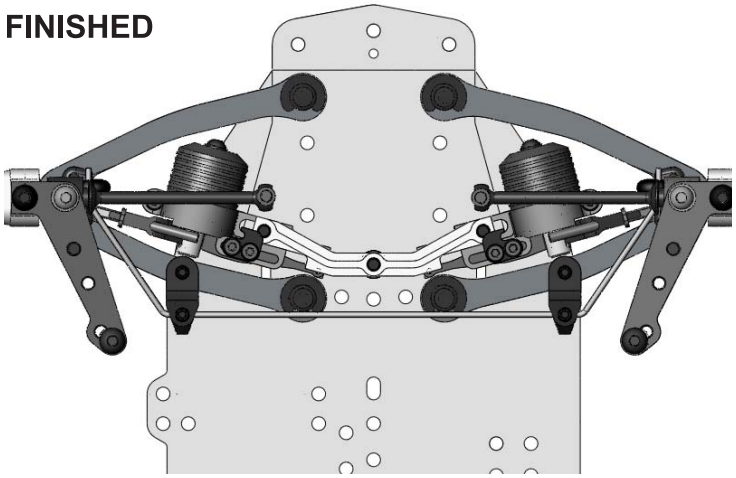



| | | |
|---|---|---|
| **SF3X10** | M3x10 Flat Head Screw | x6 |
| **SH1.75** | 6x3x1.75mm Spacer (Black) | x4 |
| **SH0.5** | 6x3x0.5mm Spacer (Silver) | x4 |
| **AM08-1** | Shocks Holder | x2 |

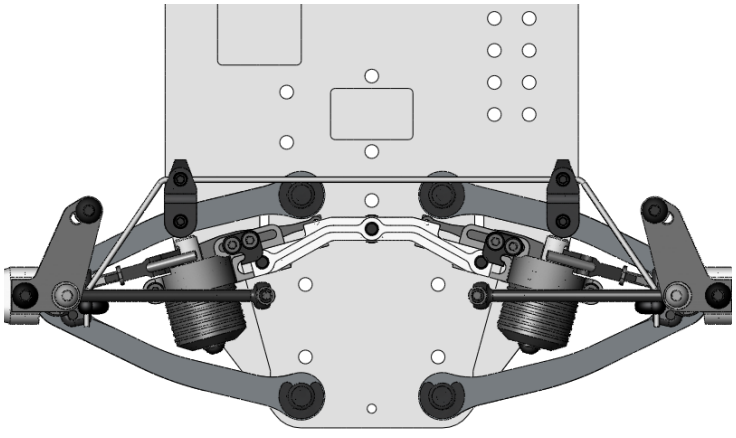
## STEP 10 (cont'd)



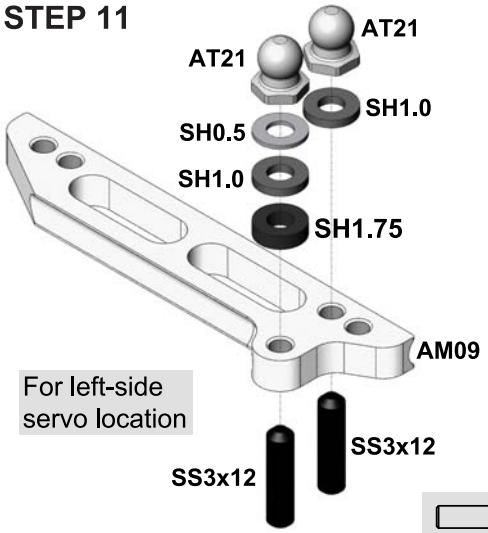

## STEPS 10 FINISHED

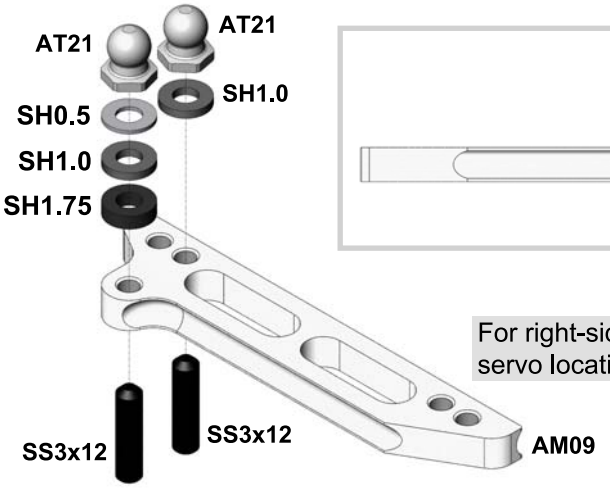


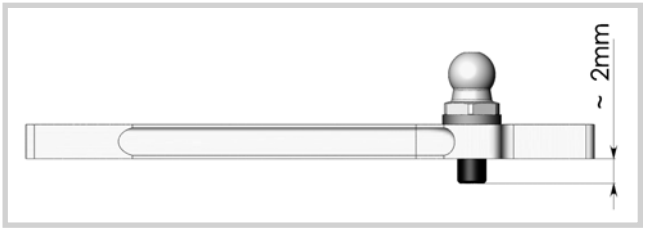
Mount Front and Rear Shocks.



## STEP 11

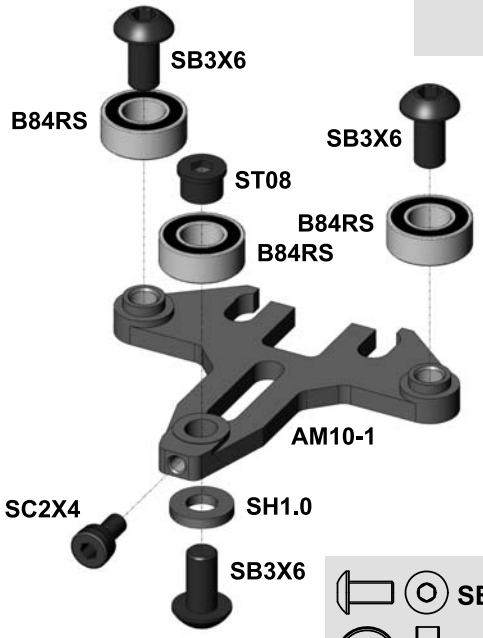


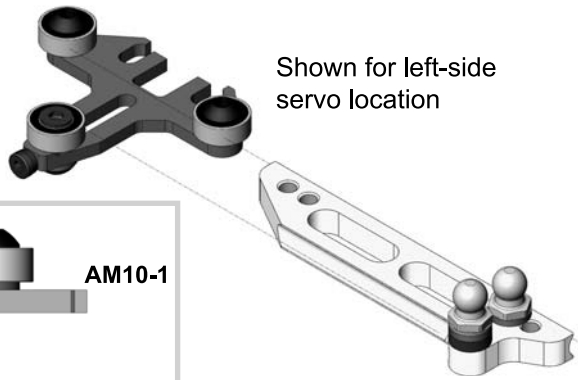




| | | | | | |
|---|---|---|---|---|---|
| ◎ **SS3X12** | M3x12 Set Screw | x3 | **AT21** | Pivot Ball | x3 |
| ◎ **SH1.0** | 6x3x1.0mm Spacer (Gray) | x3 | **AM09** | Steering Rod | x1 |
| ◎ **SH1.75** | 6x3x1.75mm Spacer (Black) | x1 | **AM10-1** | Steering Plate | x1 |
| ◎ **SH0.5** | 6x3x0.5mm Spacer (Silver) | x1 | | | |

## STEP 12




## STEP 13

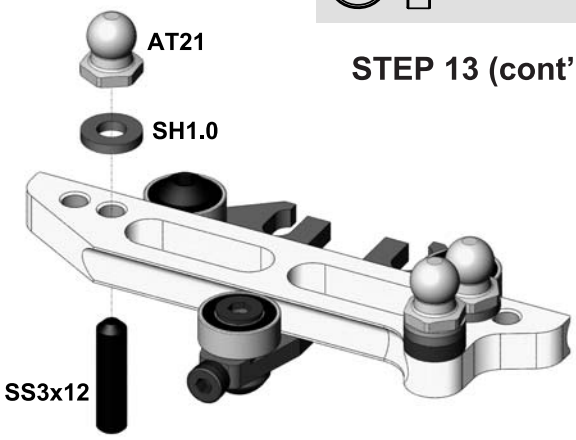


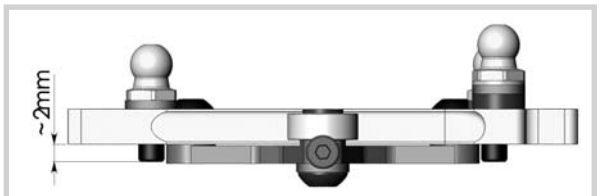


**Attention!**
Adjust **B84RS** bearing position to achieve free **AM09** Rod sliding at minimal clearance.

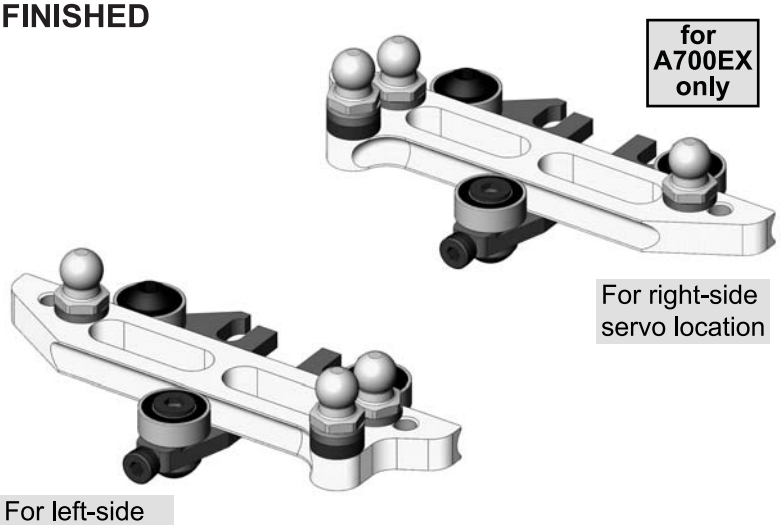
| | | | | | |
|---|---|---|---|---|---|
| ◎ **SB3X6** | M3x5 Button Head Screw | x3 | ◎ **ST08** | Steering Nut | x1 |
| **B84RS** | MR84RS Bearing | x3 | ◎ **SC2X4** | M2x4 Cap Head Screw | x1 |

## STEP 13 (cont'd)

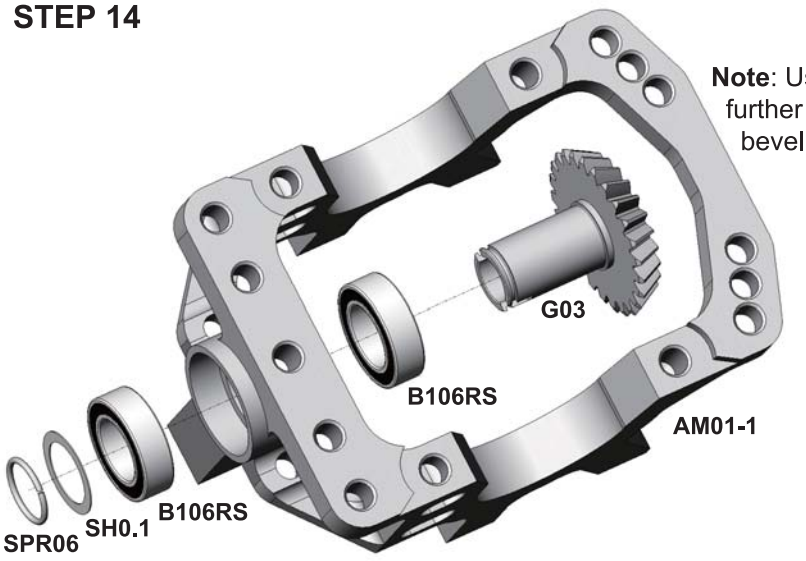


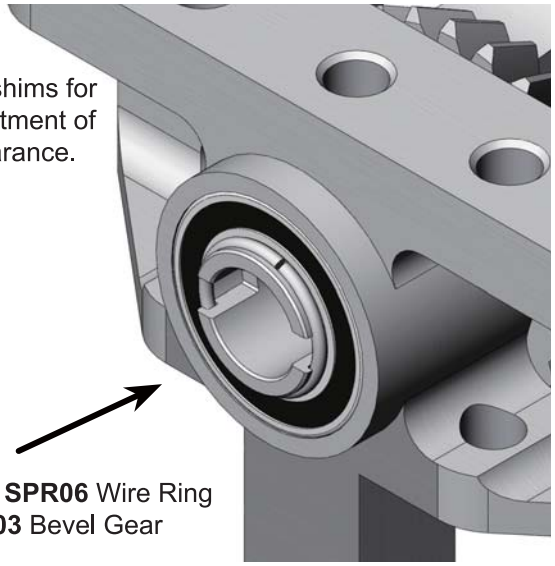

## STEP 13 FINISHED



## STEP 14



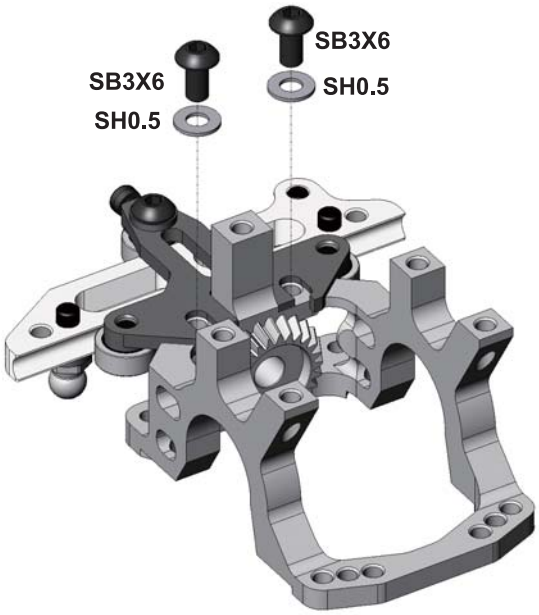

**Note**: Use **SH0.1** shims for further fine adjustment of bevel gears clearance.



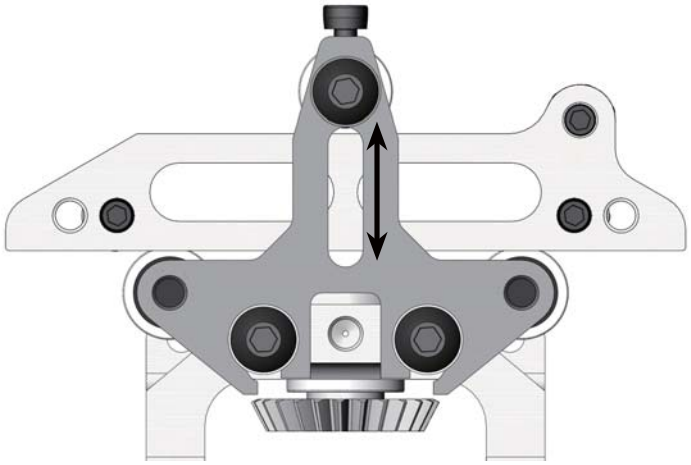
Snap **SPR06** Wire Ring on **G03** Bevel Gear

| | | | | | |
|---|---|---|---|---|---|
| **B106RS** | MR106RS Bearing | x2 | **AM01-1** | Gear Box | x1 |
| **SH0.5** | 6x3x0.5mm Spacer (Silver) | x2 | **G03** | 25T Bevel Gear | x1 |
| **SH0.1** | 6x8x0.1mm Shim | x1 | **SPR06** | Wire Ring | x1 |
| **SB3X6** | M3x6 Button Head Screw | x2 | | | |

## STEP 15




INNER ACKERMANN change:
Slide **AM10-1** Steering Plate to desired position.
Use **SB3X6** Screws to unlock/lock Steering Plate.



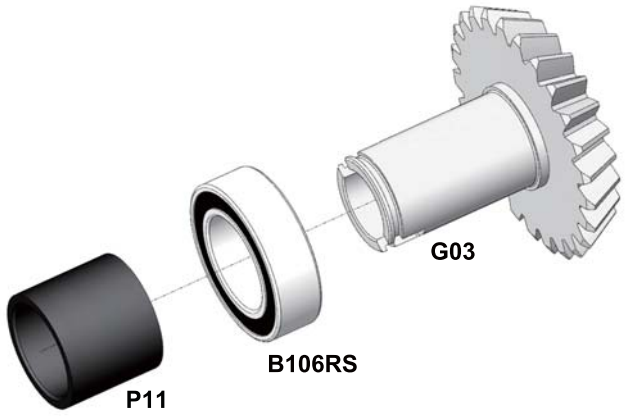
## STEP 15 FINISHED

for A700EX only

For right-side servo location

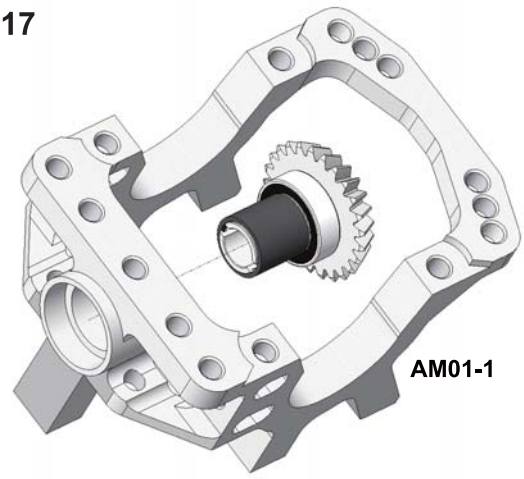
For left-side servo location

## STEP 16



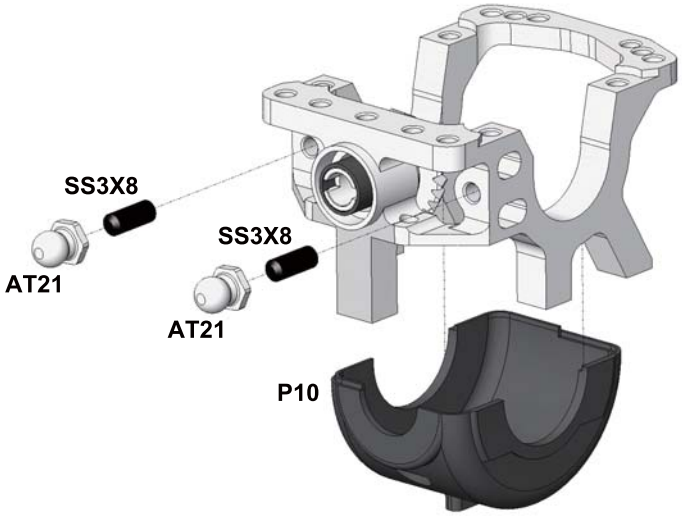

**Note**: Use **SH0.1** shims for further fine adjustment of bevel gears clearance.

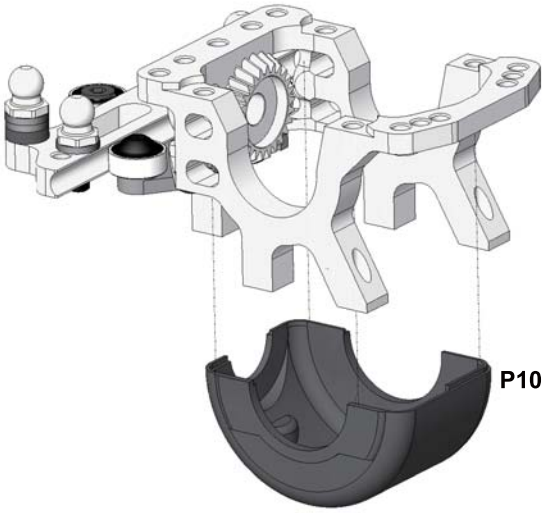
## STEP 17




| | | | | | |
|---|---|---|---|---|---|
| **B106RS** | MR106RS Bearing | x1 | **AM01-1** | Gear Box | x1 |
| **SS3X8** | M3x8 Set Screw | x2 | **G03** | 25T Bevel Gear | x1 |
| **AT21** | Pivot Ball | x2 | **P11** | Gear Tube | x1 |

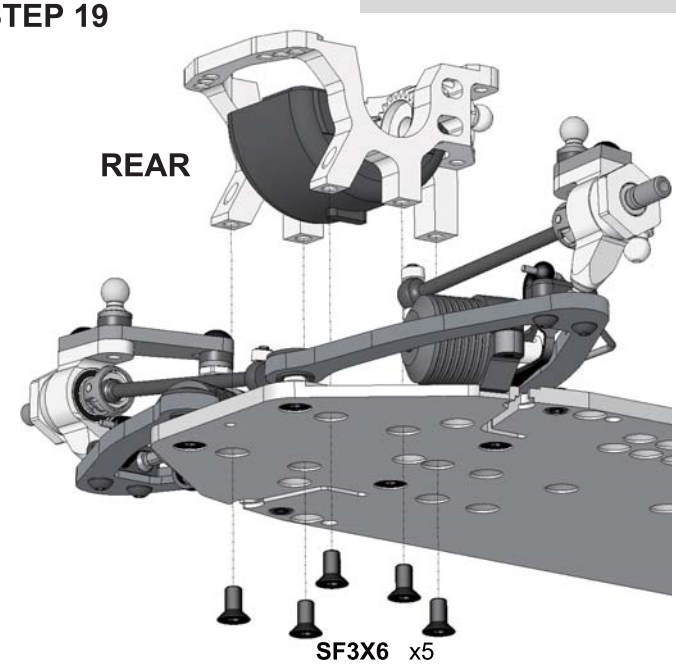
## STEP 18

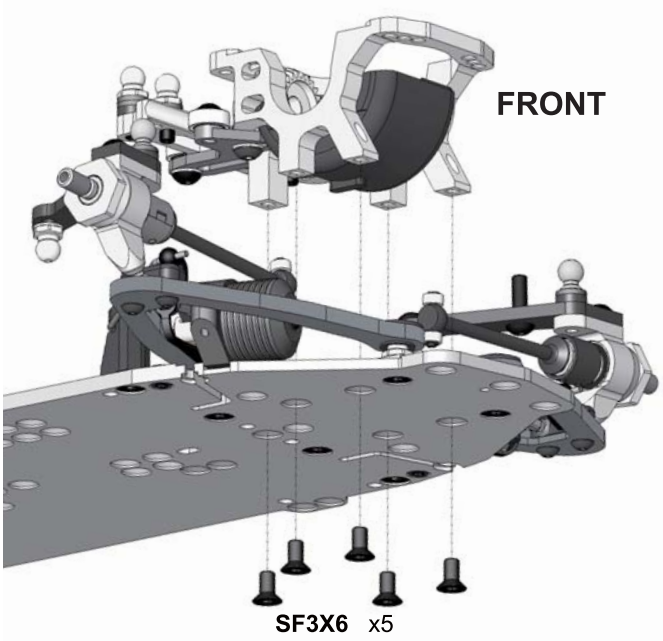



| | | | | | |
|---|---|---|---|---|---|
| **SF3X6** | M3x6 Flat Head Screw | x10 | **P10** | Diff Cover | x2 |

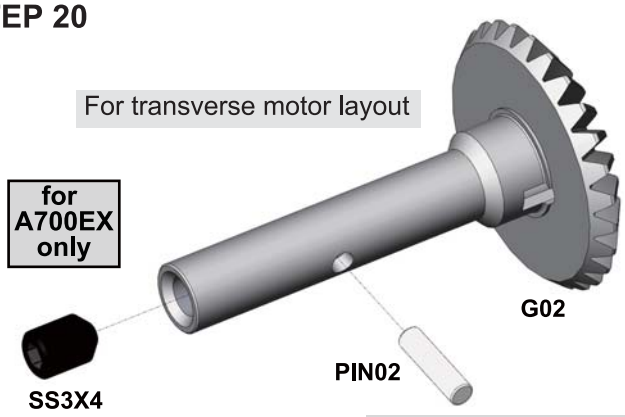
## STEP 19



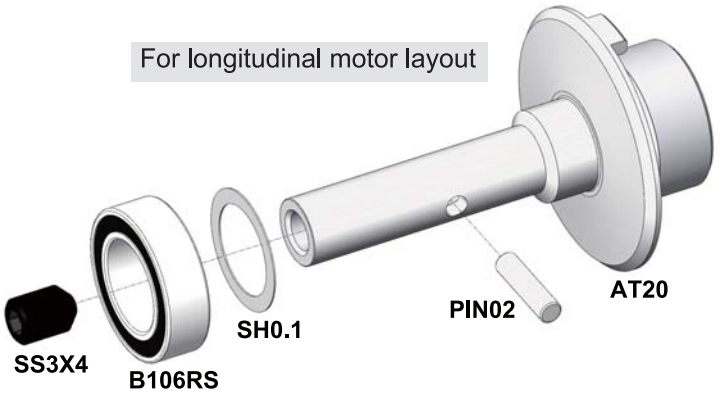



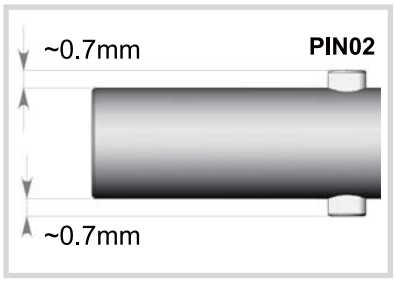
## STEP 20

For transverse motor layout




For longitudinal motor layout



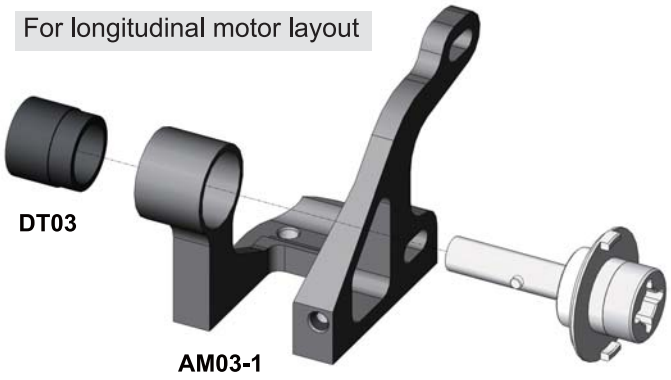

| | | | | | |
|---|---|---|---|---|---|
| **B106RS** | MR106RS Bearing | x2 | **G02** | 27T Bevel Gear | x1 |
| **B84RS** | MR84RS Bearing | x2 | **AT20** | Spur Axle | x1 |
| **SF3X5** | M3x5 Flat Head Screw | x1 | **ST06** | Gear Axle | x1 |
| **SB3X5** | M3x5 Button Head Screw | x1 | **G01** | 22T Bevel Gear | x1 |
| **SS3X4** | M3x4 Set Screw | x2 | **AM13** | Spur Holder | x1 |
| **PIN02** | 1.5x5.8 Pin | x2 | **AM03-1** | Motor Mount L | x1 |
| **SH0.1** | 6x8x0.1mm Shim | x1 | **DT03** | Motor Mount Collar | x1 |

## STEP 21

For transverse motor layout

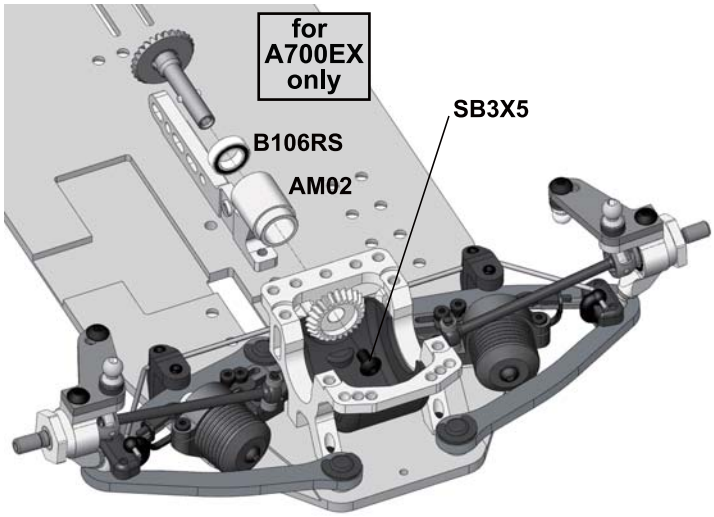

**Attention!**
Don't tighten **SB3X5** Screw fully.
~0.1mm gap should remain for free bevel gear rotation.

For longitudinal motor layout

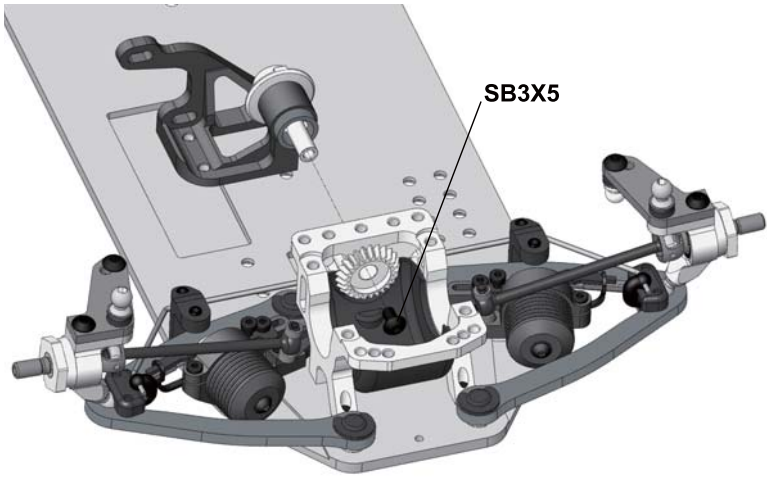



## STEP 22

For transverse motor layout




For longitudinal motor layout

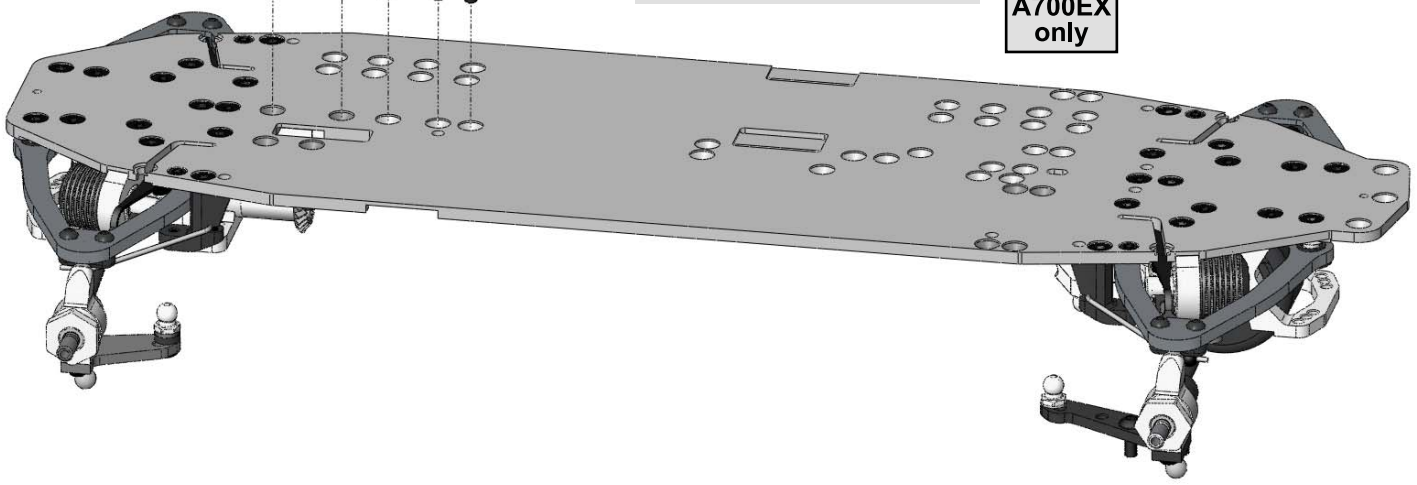


## STEP 23

**SF3X6** x5

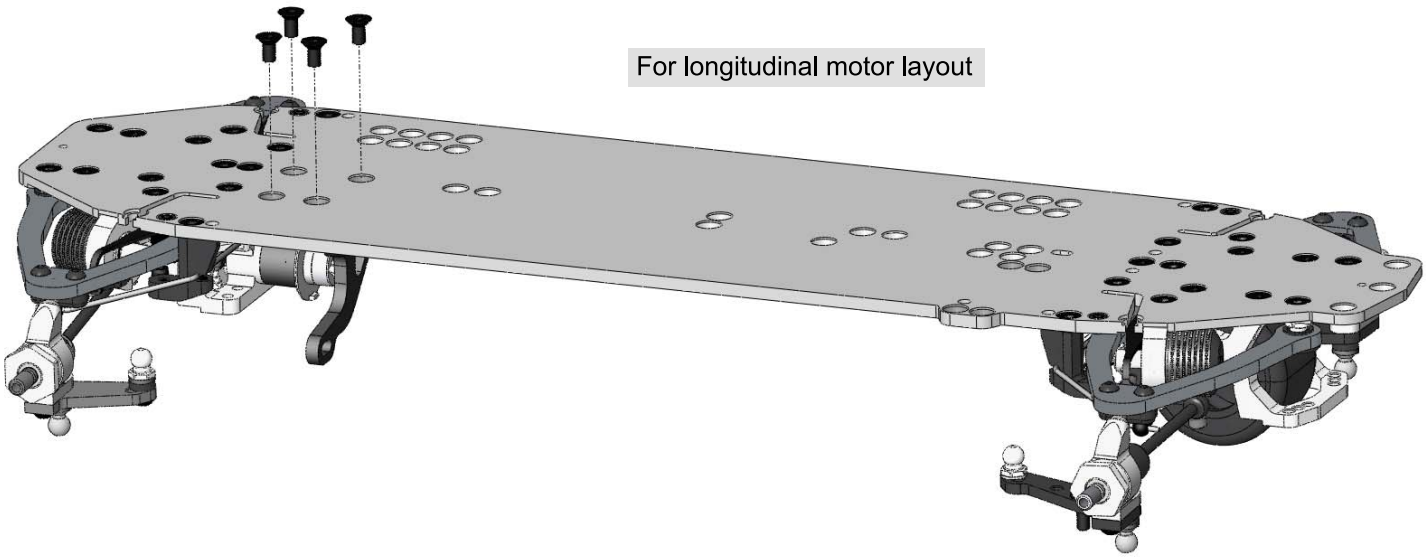
For transverse motor layout

**for A700EX only**



**SF3X6** x4

For longitudinal motor layout

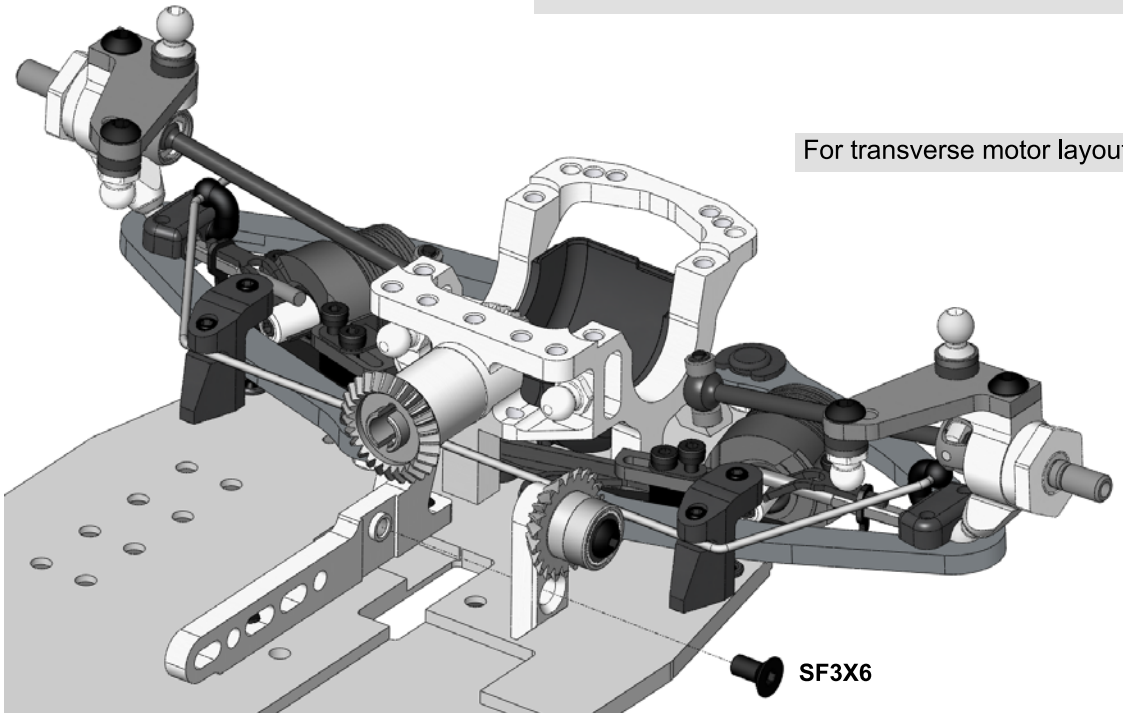


**SF3X6** M3x6 Flat Head Screw x6 / x4

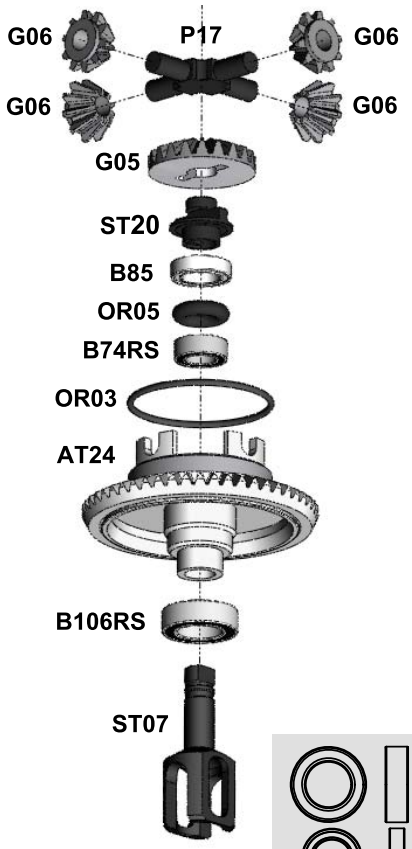
## STEP 24

**for A700EX only**

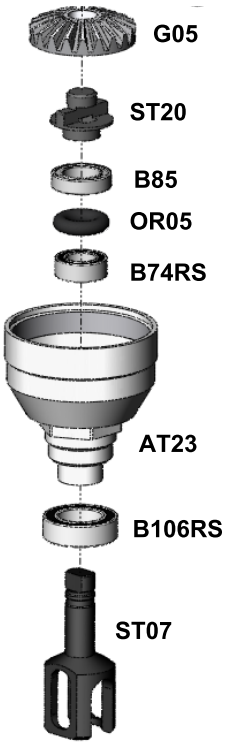
For transverse motor layout

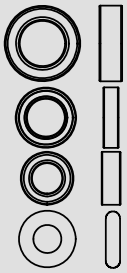


## STEP 26




## STEP 27

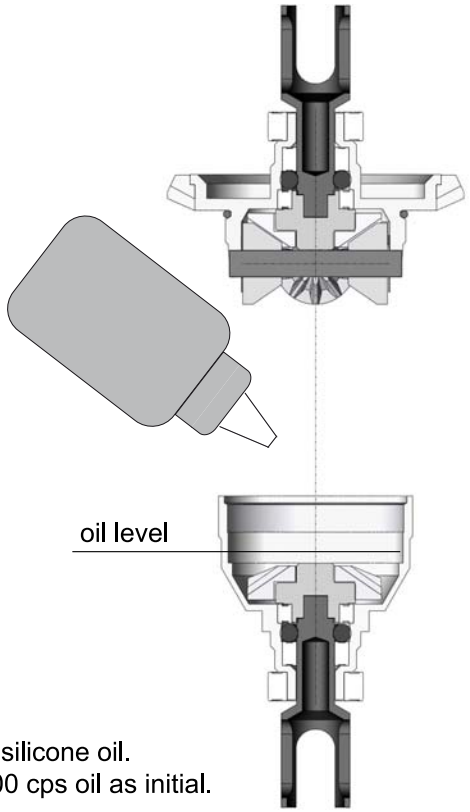


| | | |
|---|---|---|
| **B106RS** | MR106RS Bearing | x2 |
| **B85** | MR85 Bearing | x2 |
| **B74RS** | MR74RS Bearing | x2 |
| **OR05** | GD O-Ring | x2 |

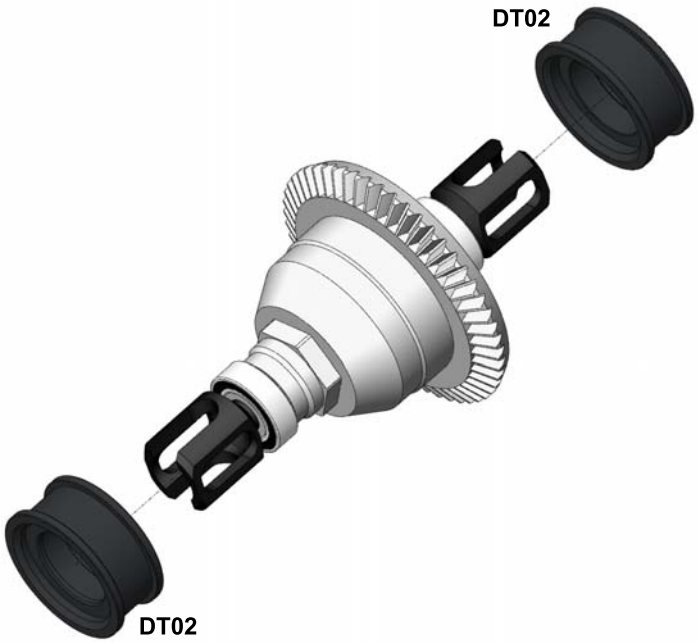
| | | |
|---|---|---|
| **AT23** | GD Case1 | x1 |
| **AT24** | GD Case2 | x1 |
| **ST20** | GD Shaft | x2 |
| **P17** | Plastic Cross | x1 |
| **OR03** | 11mm O-Ring | x1 |
| **G05** | 20T Plastic Gear | x2 |
| **G06** | 10T Plastic Gear | x4 |
| **ST07** | Outdrive | x2 |
| **DT02** | Bearing Housing | x2 |

## STEP 28




Fill with silicone oil.
Use 1000 cps oil as initial.

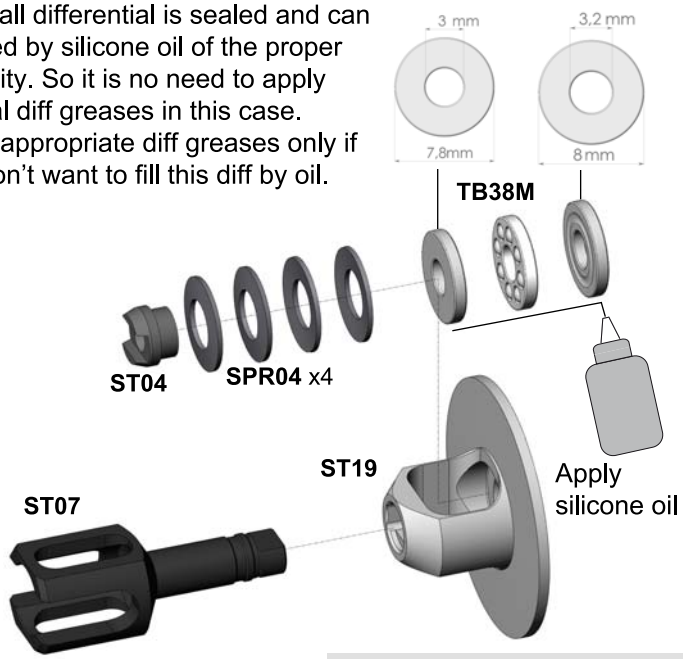
## STEP 29



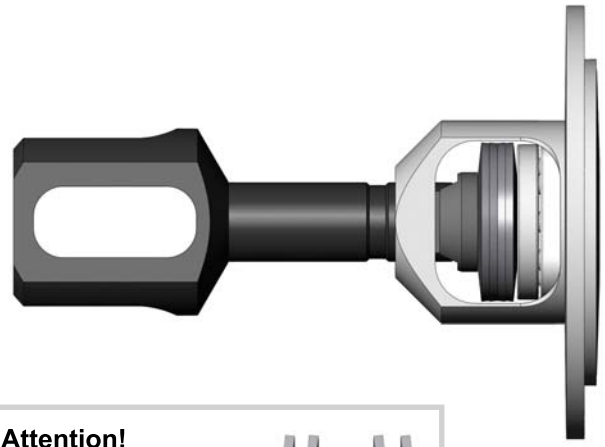

**Note:** Use 10mm wrench for **AT23** GD Case1 tightening.

## STEP 30 ( optional **BD1** Ball Diff Set )

This ball differential is sealed and can be filled by silicone oil of the proper viscosity. So it is no need to apply special diff greases in this case. Apply appropriate diff greases only if you don't want to fill this diff by oil.




## STEP 30 FINISHED

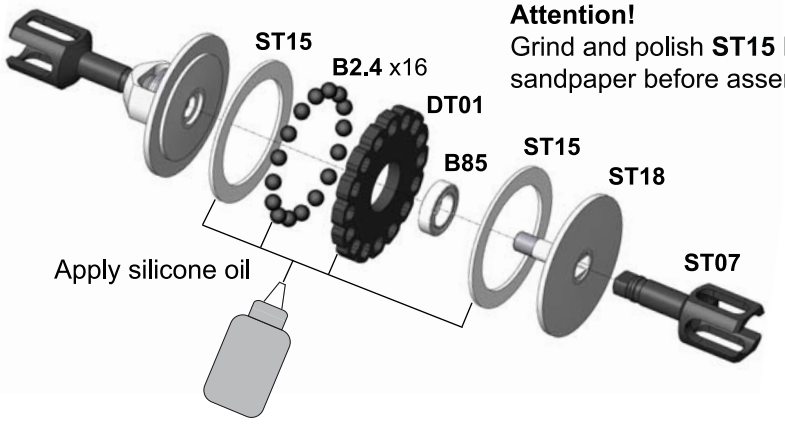


**Attention!**

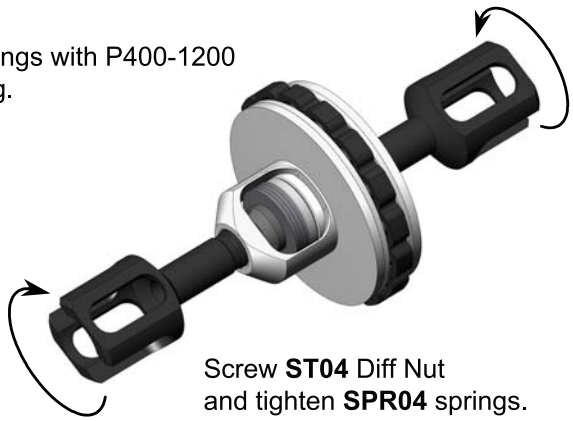
**SPR04** proper order

| | | | | | |
|---|---|---|---|---|---|
| **TB38M** | F3-8M Thrust Bearing | x1 | **ST18** | Diff Axle1 | x1 |
| **SPR04** | Diff Spring | x4 | **ST19** | Diff Axle2 | x1 |
| **B2.4** | 2.4mm Ball | x16 | **ST07** | Outdrive | x2 |
| **B85** | MR85 Bearing | x1 | **DT01** | Diff Cage | x1 |
| **ST04** | Diff Nut | x1 | **ST15** | Diff Ring | x2 |

## STEP 31 (optional)

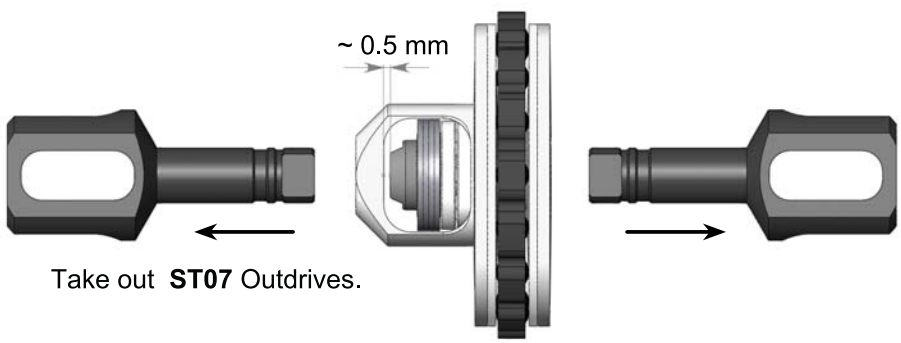



**Attention!**
Grind and polish **ST15** Diff Rings with P400-1200 sandpaper before assembling.



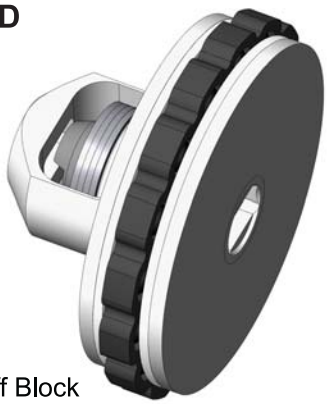
Screw **ST04** Diff Nut and tighten **SPR04** springs.

## STEP 32 (cont'd)



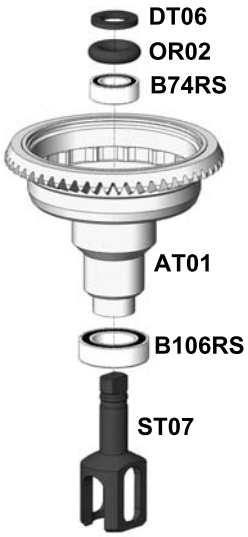

Take out **ST07** Outdrives.

## STEP 32 FINISHED



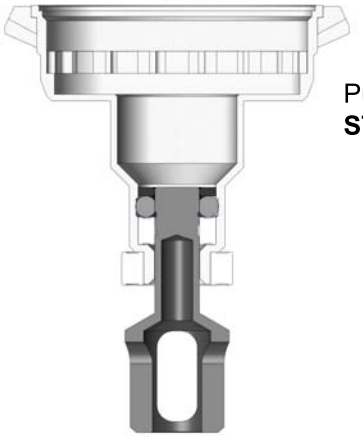
Inner Diff Block

## STEP 33 (optional)

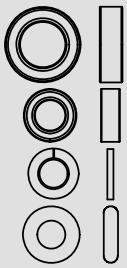




## STEP 33 FINISHED

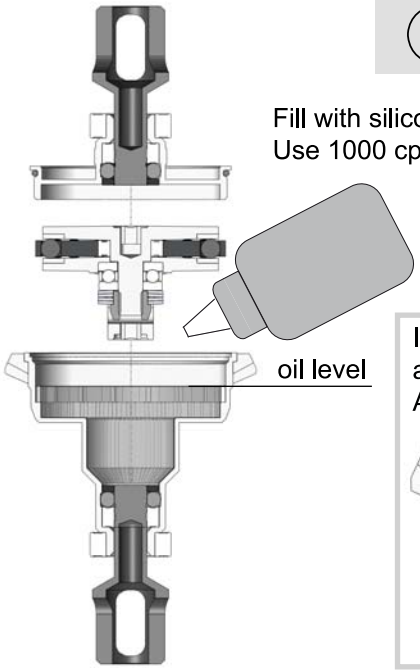


Put **DT06** Diff Stops on **ST07** Outdrives ends.



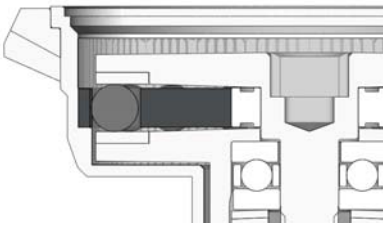
| | | | | | |
|---|---|---|---|---|---|
| **B106RS** | MR106RS Bearing | x2 | **AT01** | Diff Case1 | x1 |
| **B74RS** | MR74RS Bearing | x2 | **AT02** | Diff Case2 | x1 |
| **DT06** | Diff Stop | x2 | **OR04** | 14mm O-Ring | x1 |
| **OR02** | BD O-Ring | x2 | **DT02** | Bearing Housing | x2 |

## STEP 34 (optional)



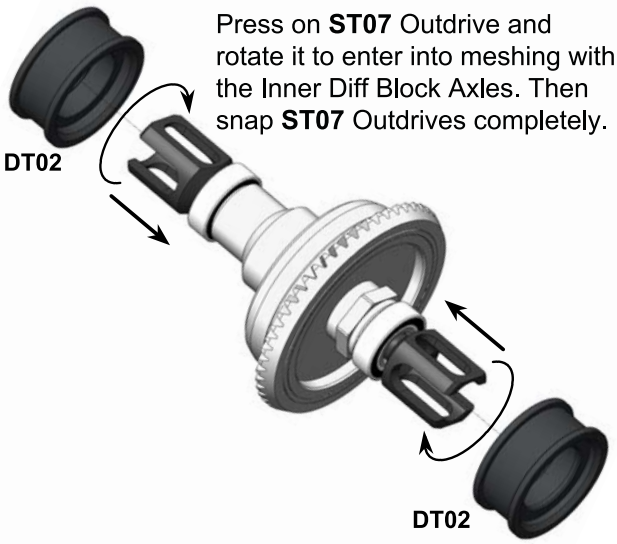

Fill with silicone oil.
Use 1000 cps oil as initial.

Insert Inner Diff Block slowly and carefully to the level shown. Allow air bubbles to come out.



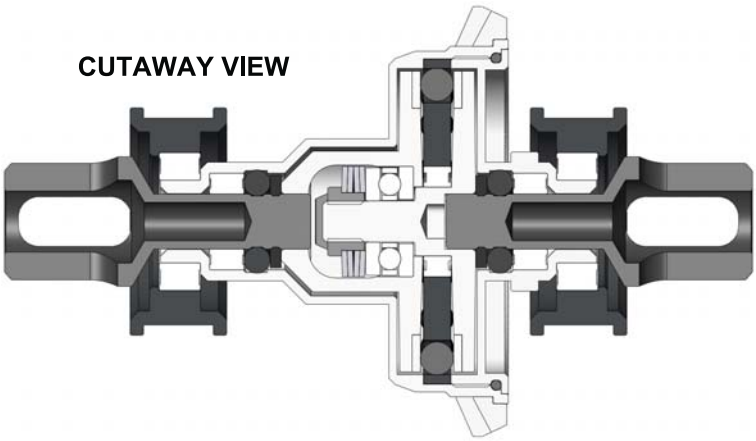
## STEP 34 (cont'd)

Press on **ST07** Outdrive and rotate it to enter into meshing with the Inner Diff Block Axles. Then snap **ST07** Outdrives completely.




## STEP 34 FINISHED

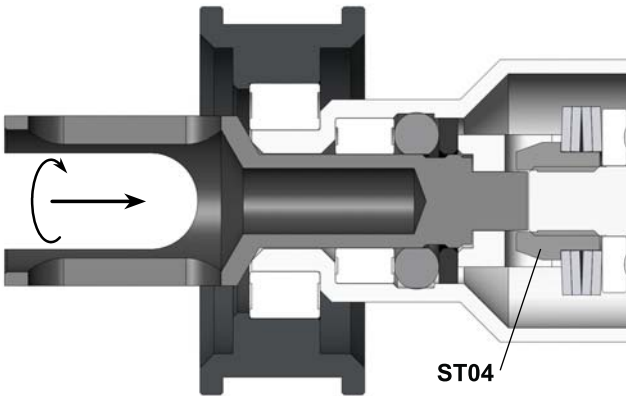
**CUTAWAY VIEW**



It is possible to adjust diff spring tightening without diff disassembly.

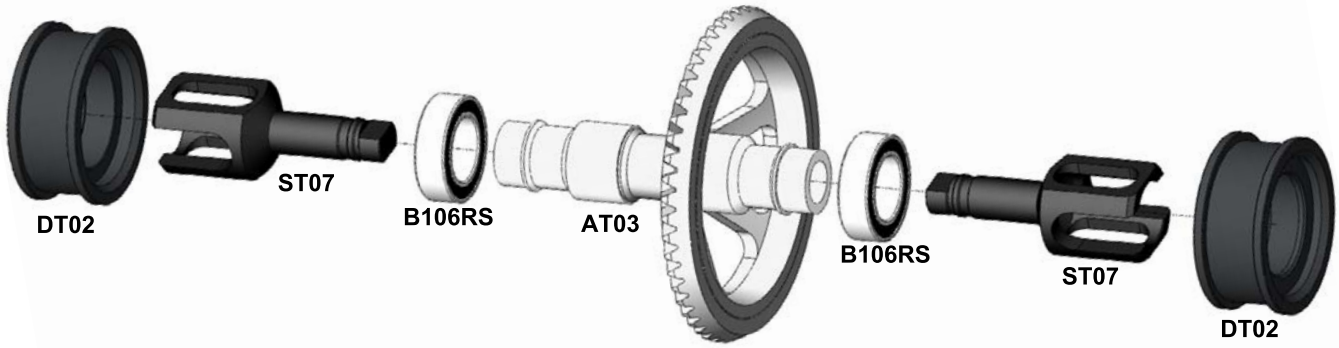
### Diff tightening change.

Press on this **ST07** Outdrive and rotate it to enter into meshing with **ST04** Diff Nut. Screw in/out Diff Nut to set desired springs tension. Then snap out **ST07** Outdrive.



## STEP 35

Press on **ST07** Outdrive and rotate it to enter into meshing with the **AT03** Spool Axle.
Then snap each Outdrive completely.
There are two lock rings inside the Spool Axle for fixation of the Outdrives.



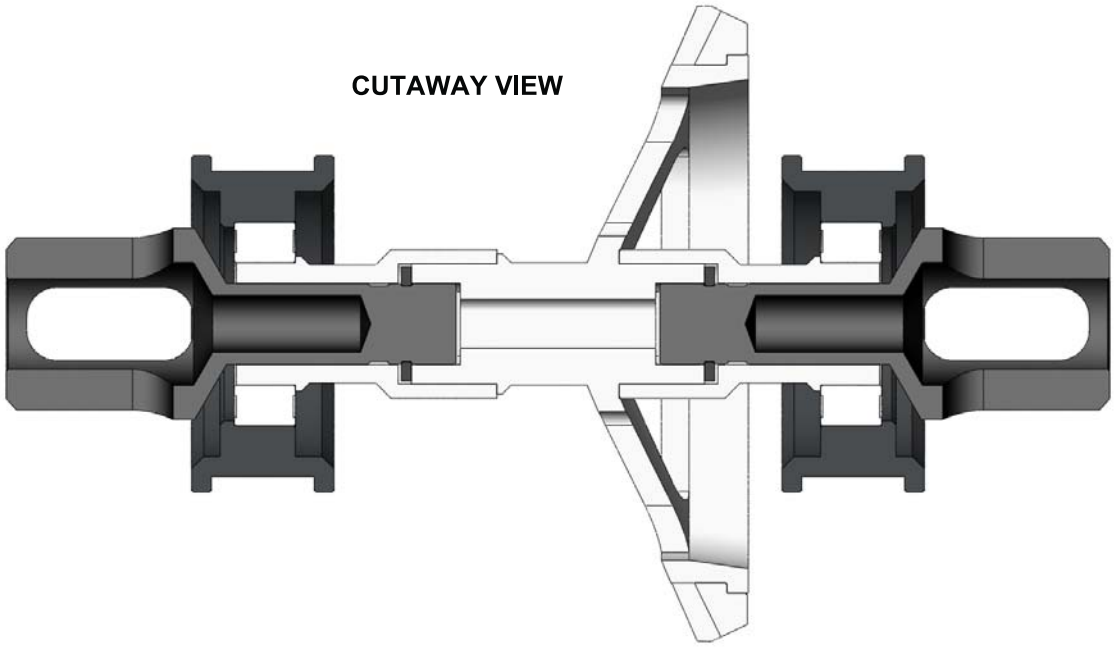

**B106RS** MR106RS Bearing x2

**AT03** Spool Axle x1

**ST07** Outdrive x2

**DT02** Bearing Housing x2

## STEP 35 FINISHED



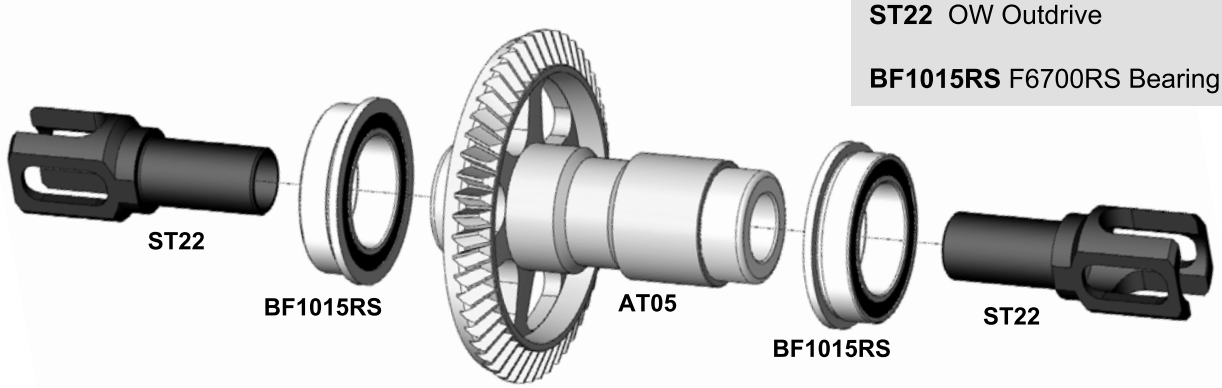

## STEP 36 (optional)

**OW1** One-Way Axle Set (not included)

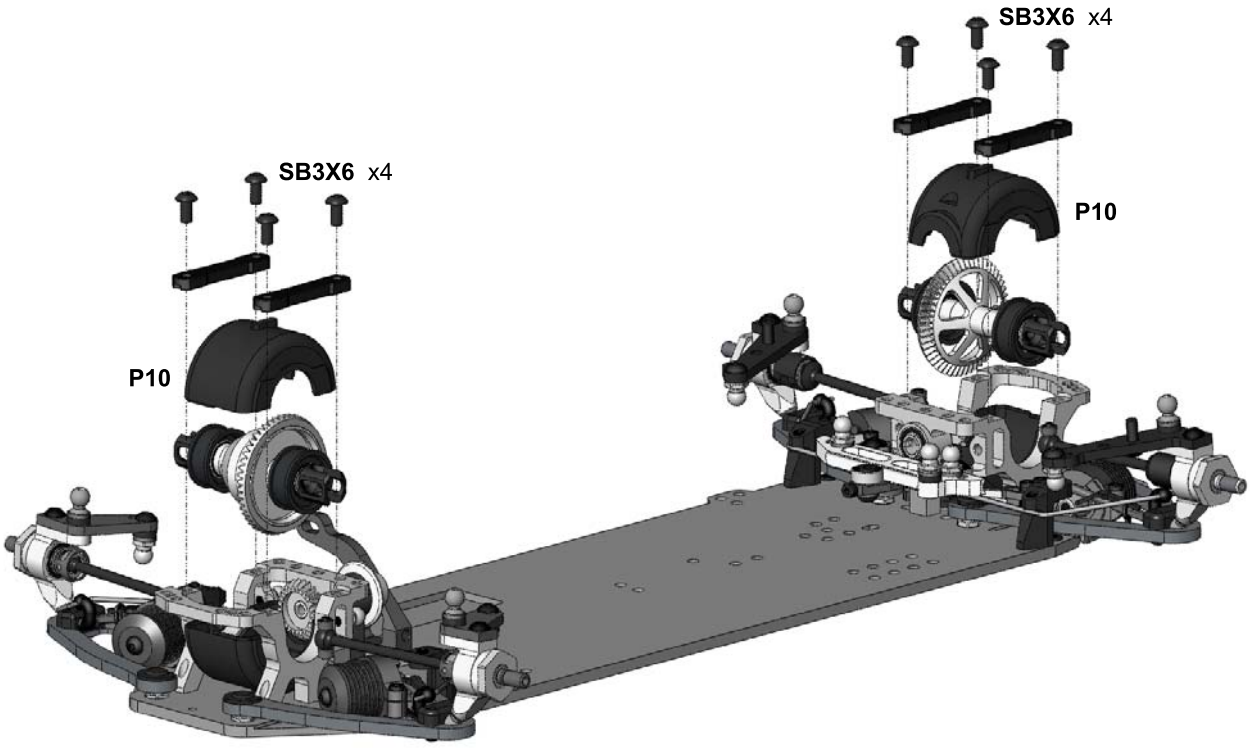
**AT05** OW Housing x1

**ST22** OW Outdrive x2

**BF1015RS** F6700RS Bearing x2

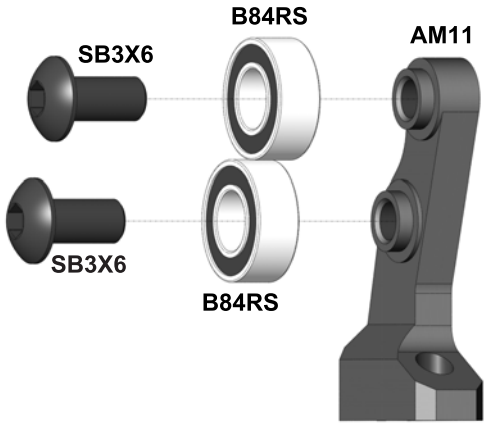


## STEP 37

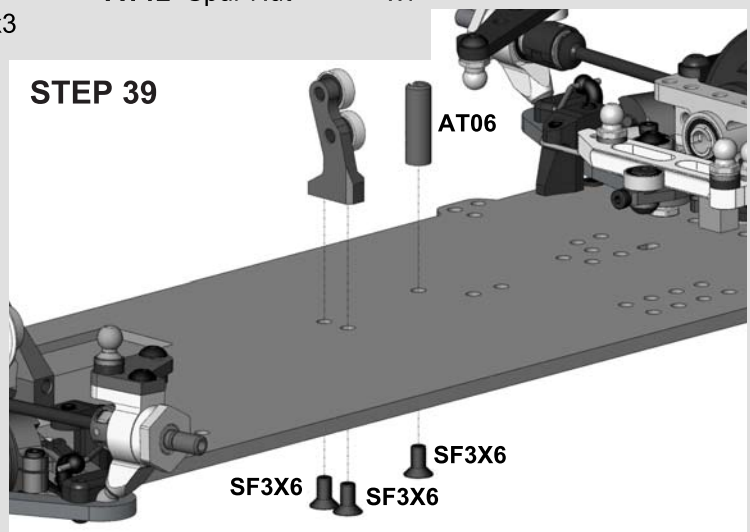



| | | | | | |
|---|---|---|---|---|---|
| **SB3X6** | M3x6 Button Head Screw | x10 | **P22** | Diff Clamping Bar | x4 |
| **B84RS** | MR84RS Bearing | x2 | **AM11** | Tower | x1 |
| **SF3X6** | M3x6 Flat Head Screw | x3 | **AT06** | Antenna Holder | x1 |
| | | | **AT12** | Spur Nut | x1 |

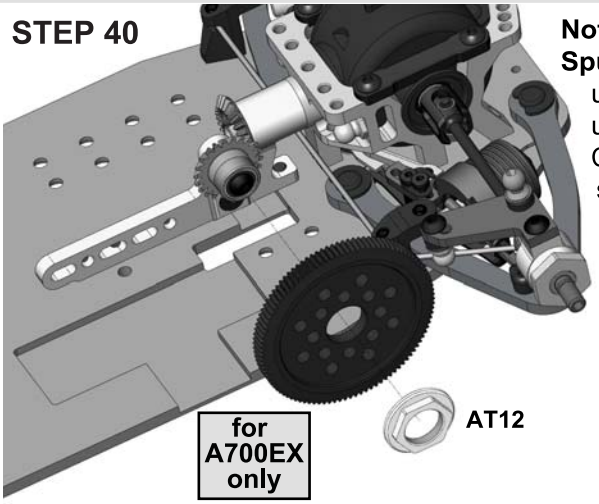
## STEP 38




## STEP 39

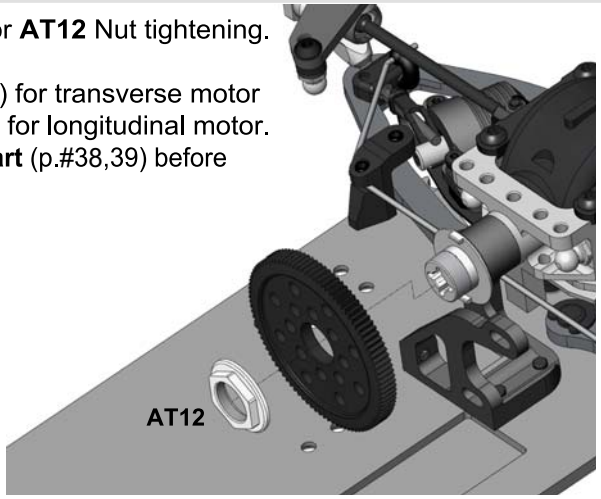



## STEP 40



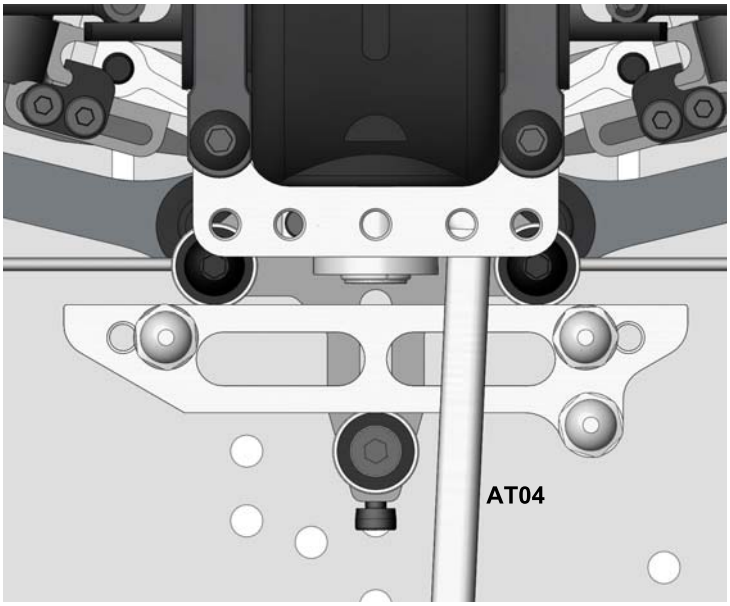

For transverse motor layout

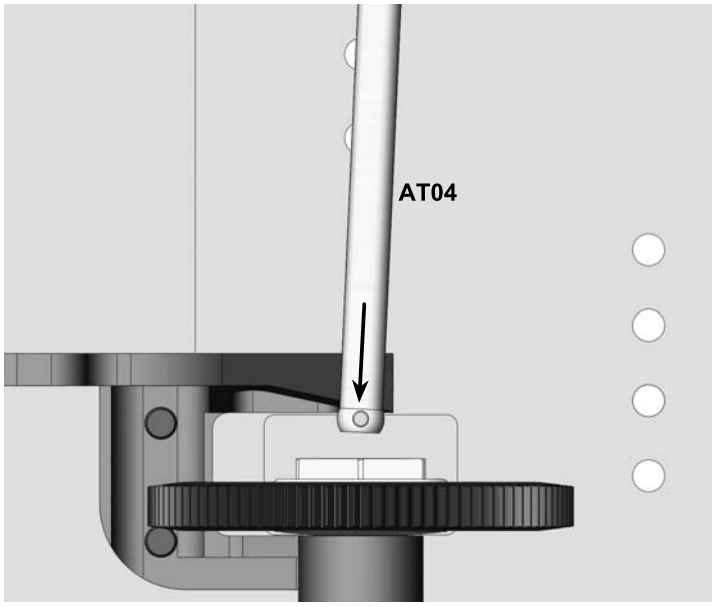
**Note:** Use 12mm wrench for **AT12** Nut tightening.
**Spur gears** (not included):
up to 104T/64p (77T/48p) for transverse motor
up to 98T/64p (73T/48p) for longitudinal motor.
Check up **Drive Ratio Chart** (p.#38,39) before spur gear installation.



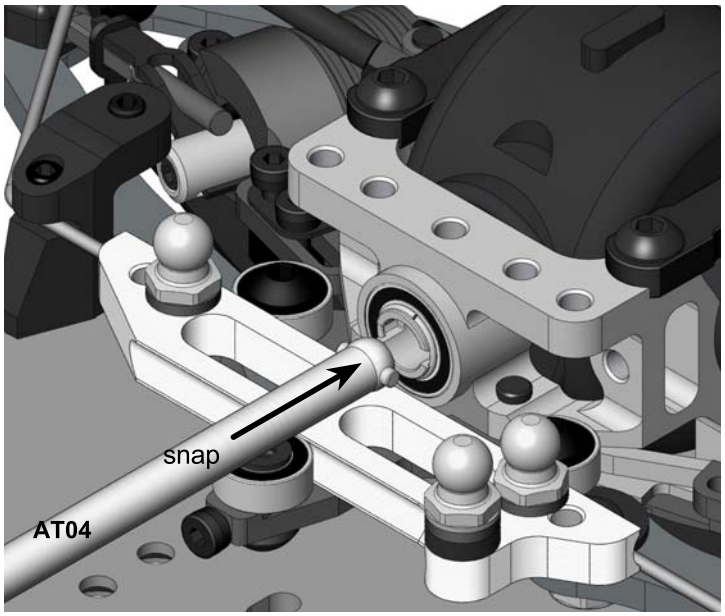

For longitudinal motor layout

## STEP 41

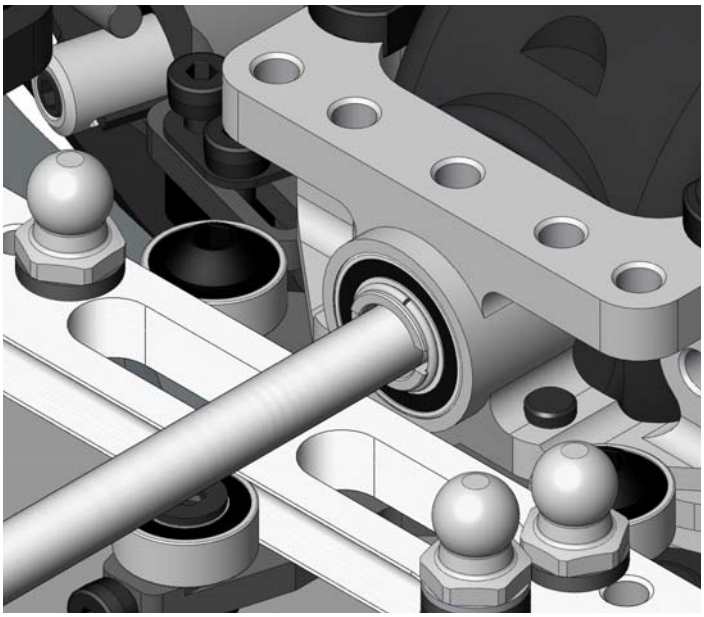


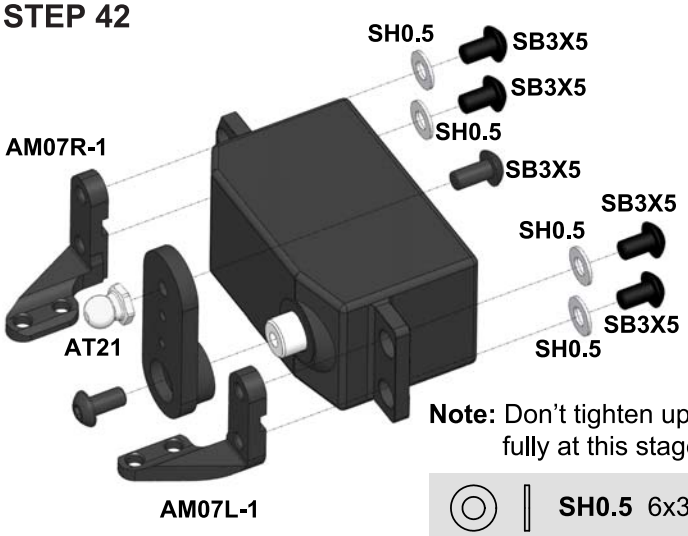

## STEP 41 (cont'd)

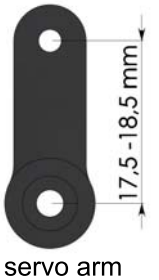



## STEP 41 FINISHED



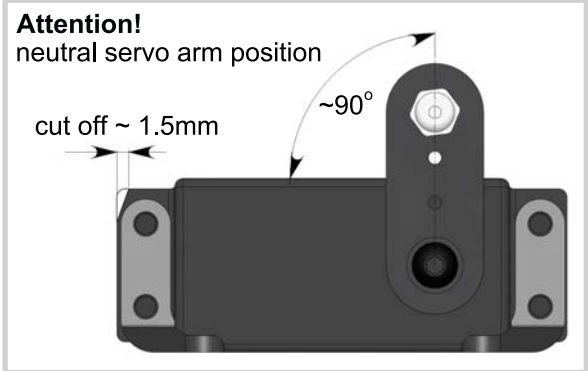
## STEP 42




servo arm
(not included)

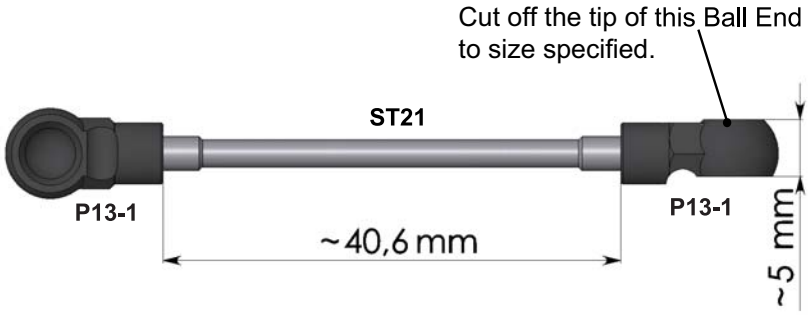
**Note:** Recommended length of servo arm is 17,5-18,5mm.




**Note:** Don't tighten up **SB3X5** screws fully at this stage.

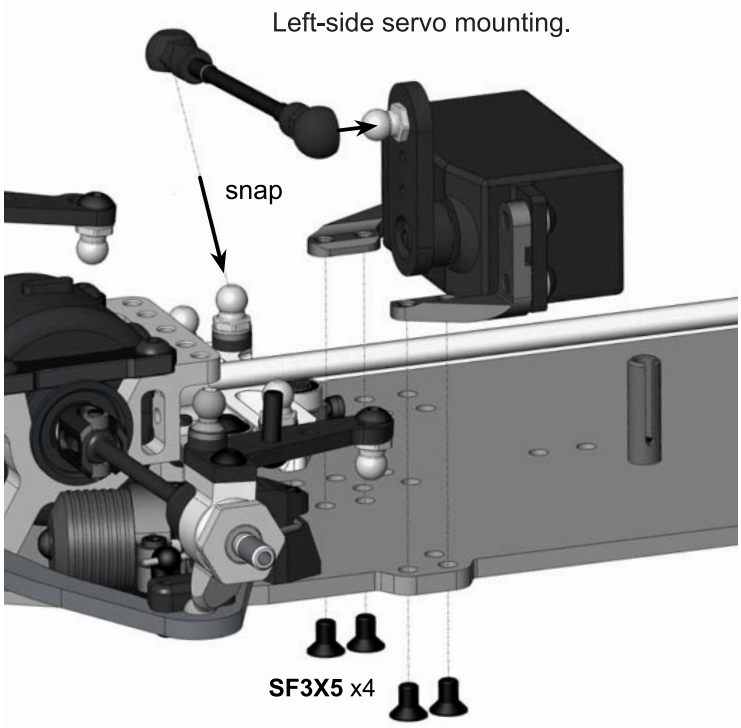
| | | | |
|---|---|---|---|
| **SH0.5** 6x3x0.5mm Spacer (Silver) | x4 | **AM07R-1** Servo Holder Right | x1 |
| **SB3X5** M3x5 Button Head Screw | x5 | **AM07L-1** Servo Holder Left | x1 |
| | | **AT21** Pivot Ball | x1 |

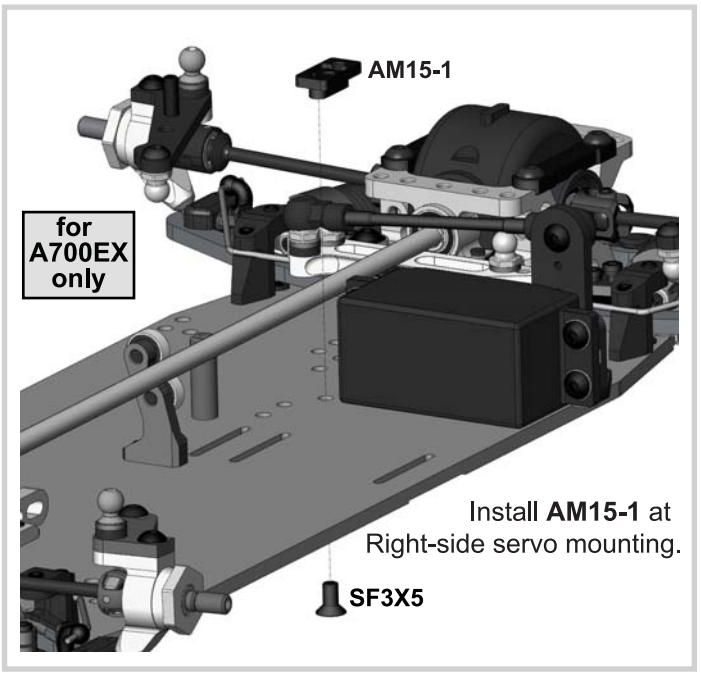
## STEP 43




| | | |
|---|---|---|
| **P13-1** | Ball End 14mm | x2 |
| **SF3X5** | M3x5 Flat Head Screw | x5 |
| **ST21** | Servo Rod | x1 |
| **AM15-1** | Battery Nut | x1 |

## STEP 44

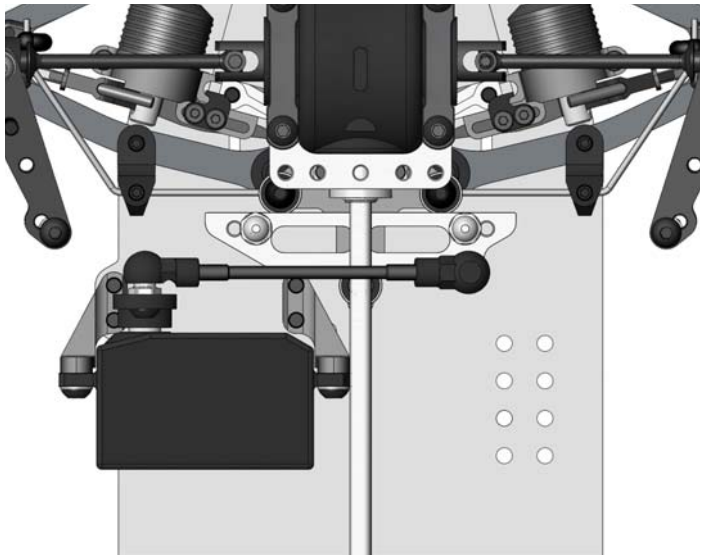


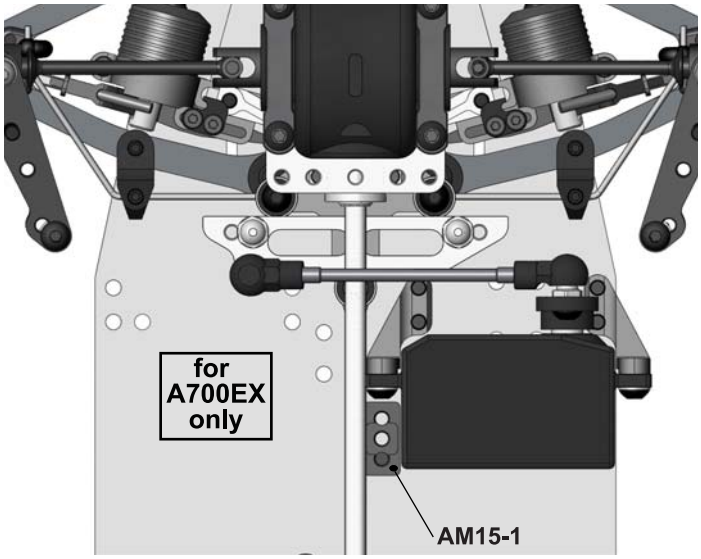

## STEP 44 FINISHED

Tighten up **SB3X5** crews to fix the servo fully.

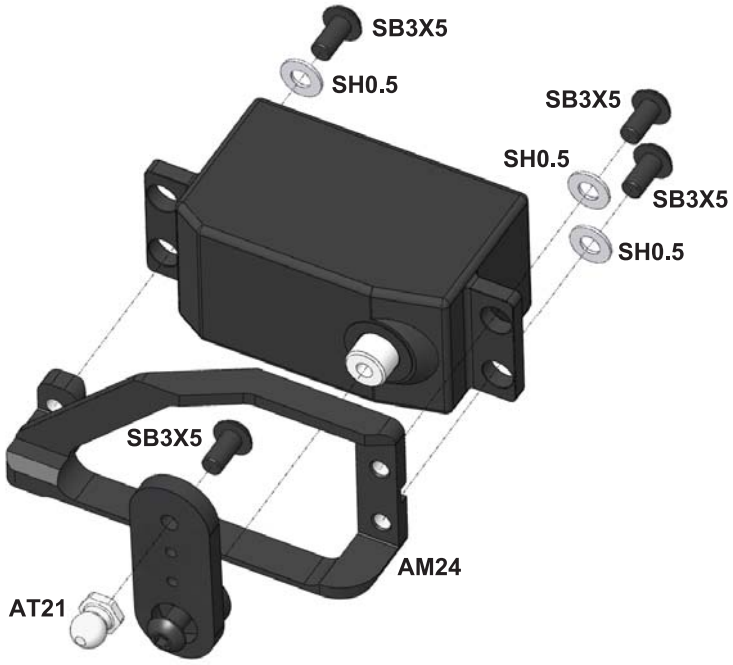
Left-side servo location.

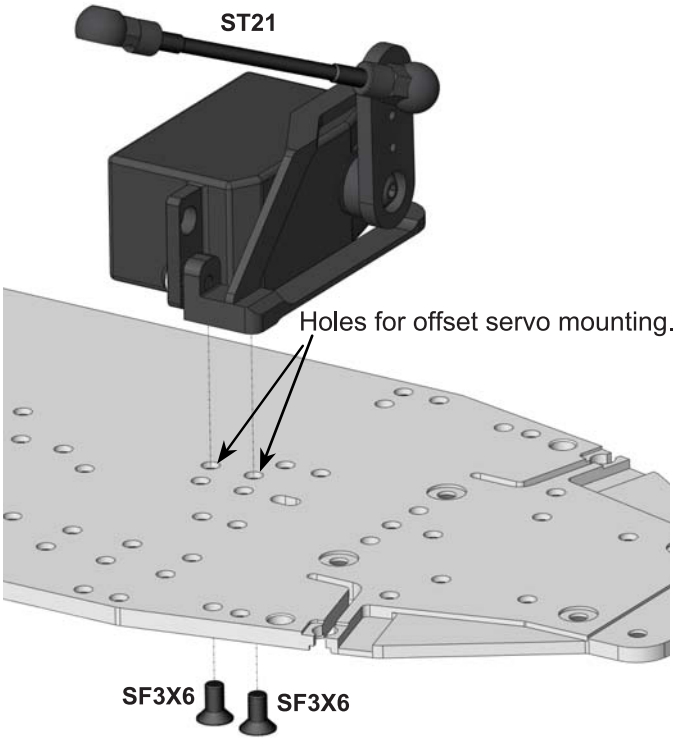


Right-side servo location.

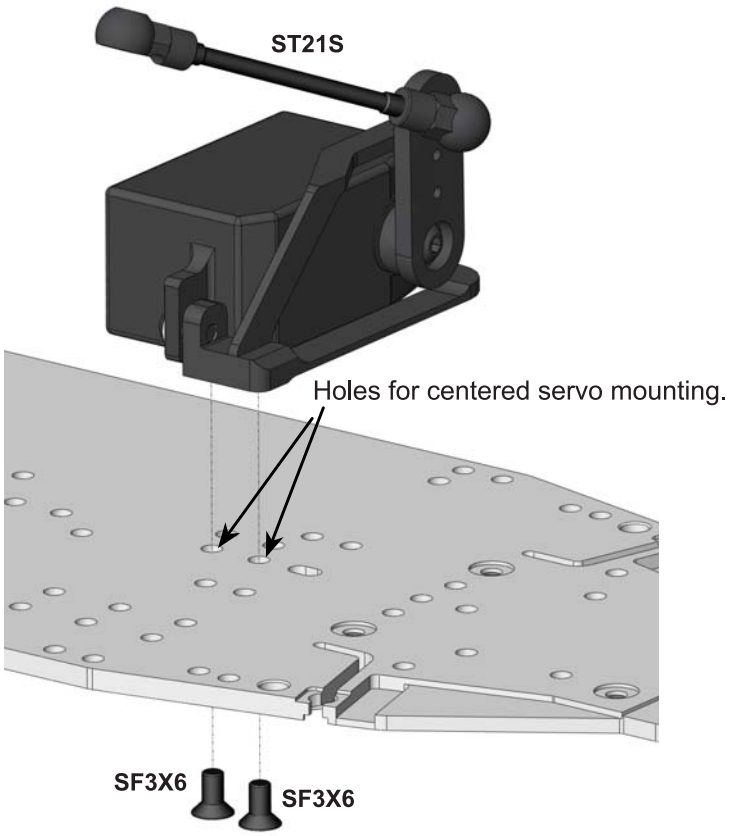


## MOUNTING OF AM24 CENTRAL SERVO HOLDER (optional)

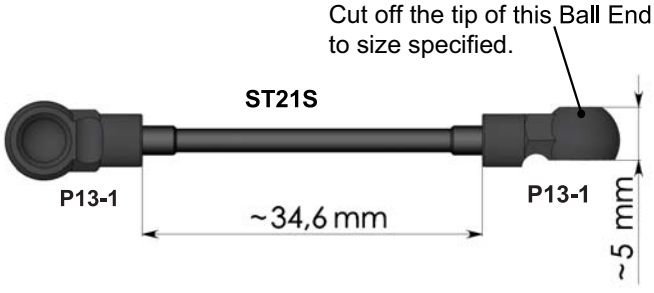



| | | | |
|---|---|---|---|
| **P13-1** Ball End 14mm | x2 | **AT21** Pivot Ball | x1 |
| **SF3X6** M3x6 Flat Head Screw | x2 | **AM24** Central Servo Holder | x1 |
| **SH0.5** 6x3x0.5mm Spacer (Silver) | x3 | **ST21** Servo Rod | x1 |
| **SB3X5** M3x5 Button Head Screw | x4 | or **ST21S** Servo Rod Short | x1 |

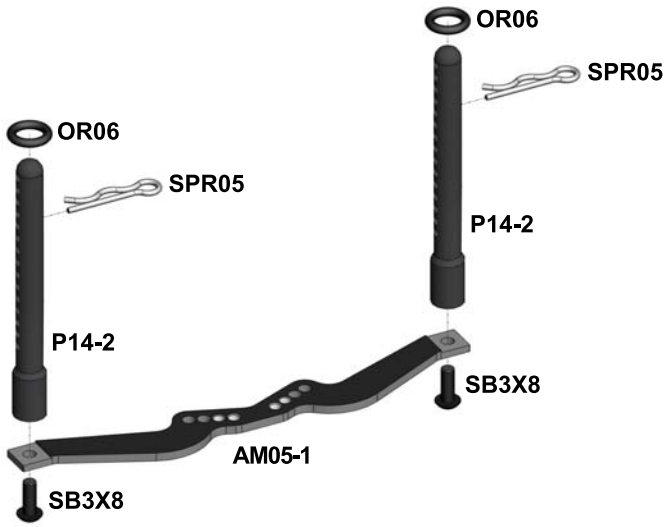


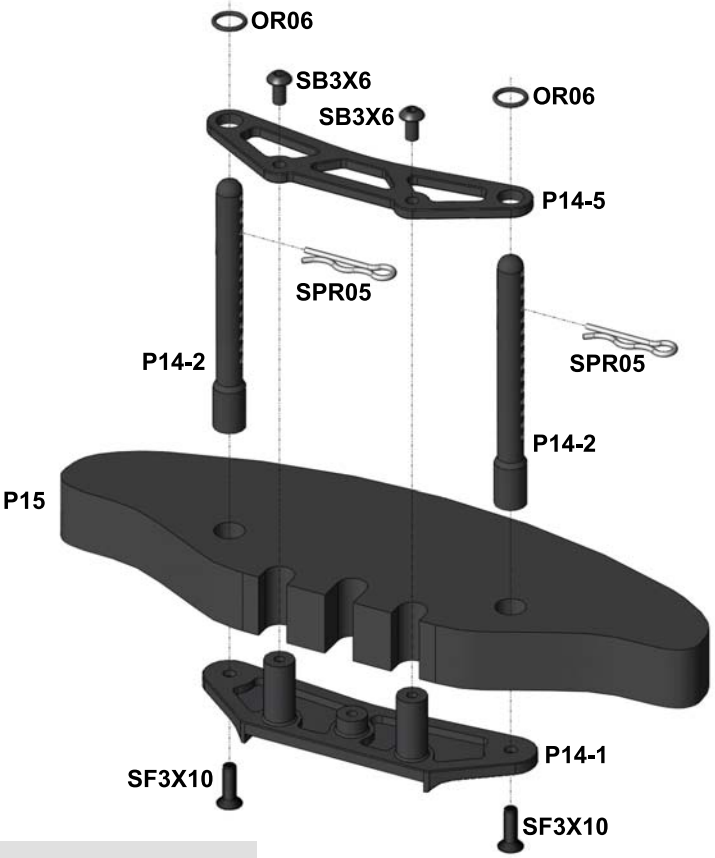

**Attention!** Make this at the centered servo mounting.


Using of ~ 6mm shortened **ST21** Servo Rod is possible also.

## STEP 45

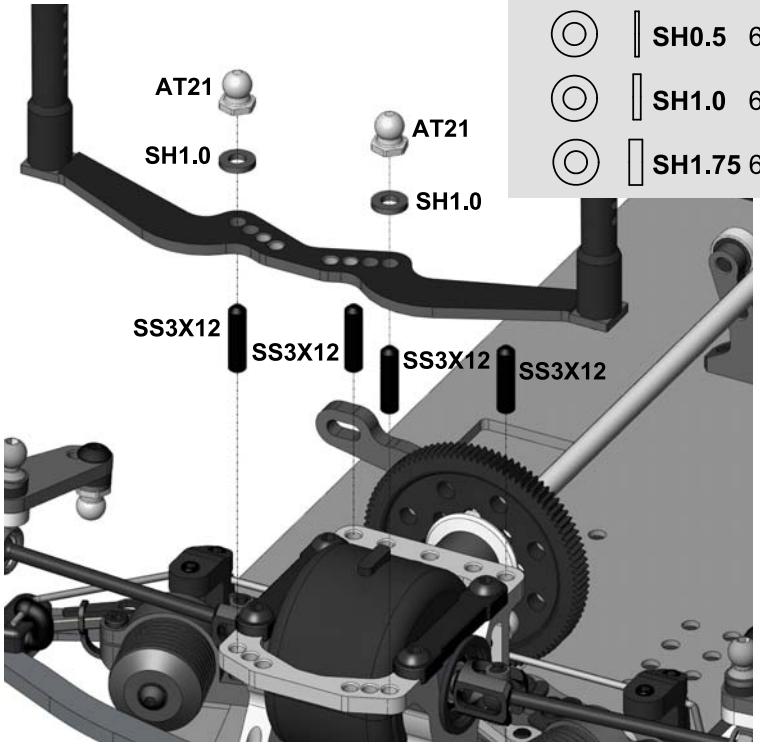


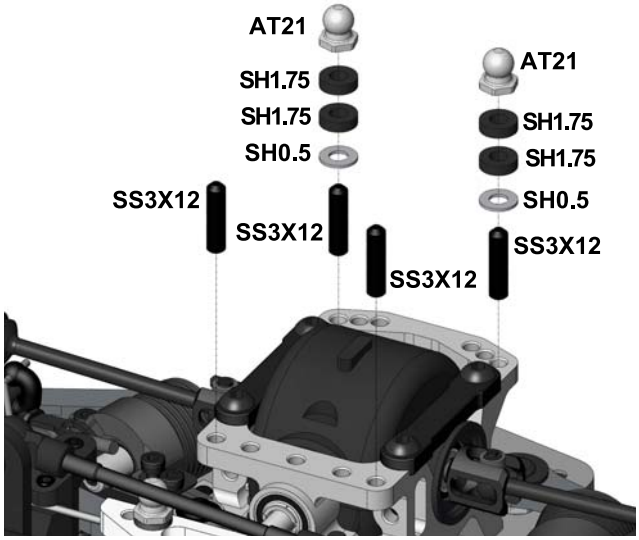




| | | | |
|---|---|---|---|
| **SF3X10** M3x10 Flat Head Screw | x2 | **AM05-1** Rear Holder | x1 |
| **SB3X8** M3x8 Button Head Screw | x2 | **P14-1** Lower Bumper | x1 |
| **SB3X6** M3x6 Button Head Screw | x2 | **P14-2** Body Post | x4 |
| **OR06** 5mm O-Ring | x4 | **P14-5** Upper Bumper | x1 |
| **SPR05** Body Clip | x4 | **P15** Foam Bumper | x1 |

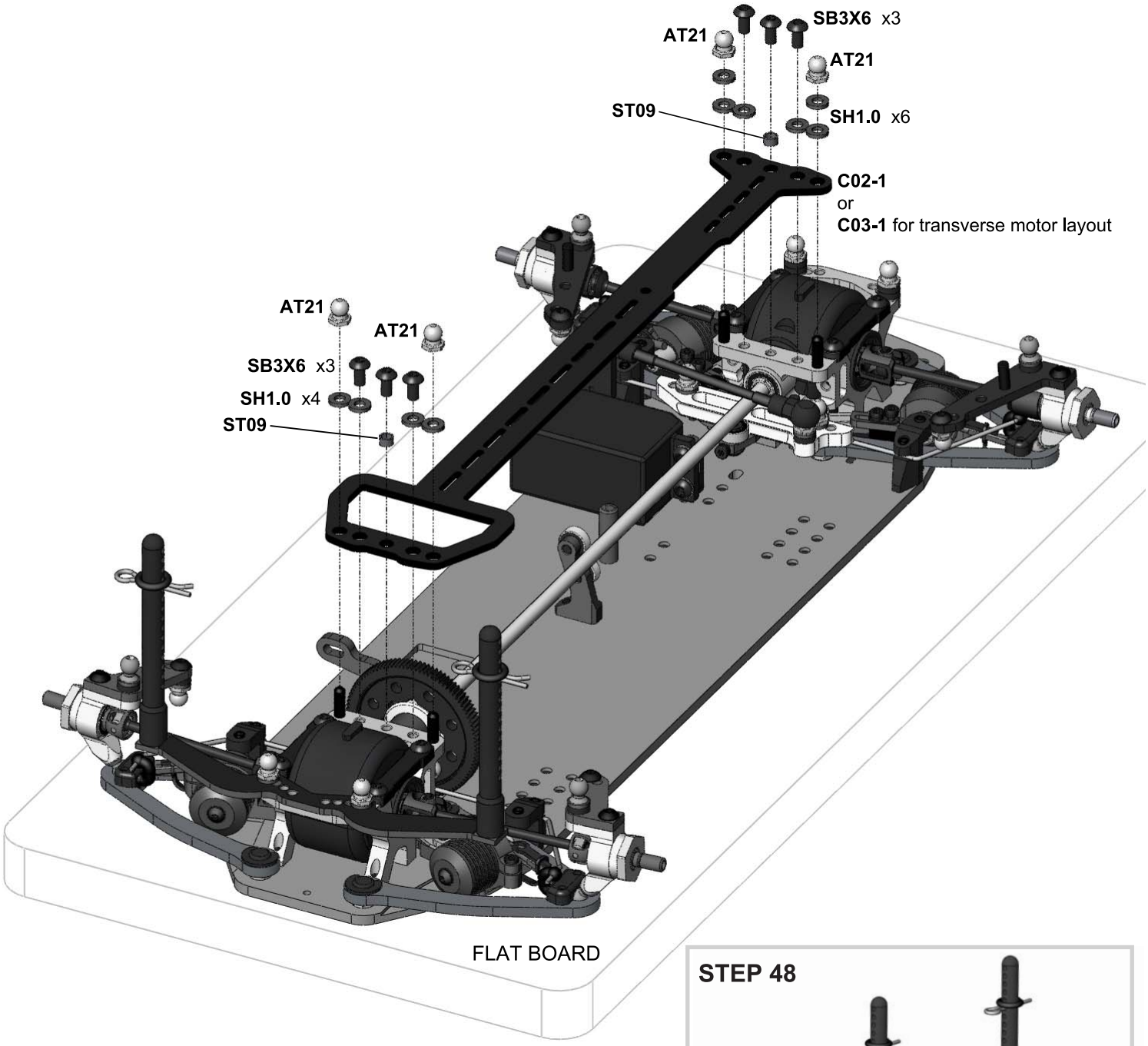
## STEP 46

| | | | |
|---|---|---|---|
| **SS3X12** M3x12 Set Screw | x8 | **AT21** Pivot Ball | x4 |
| **SH0.5** 6x3x0.5mm Spacer (Silver) | x2 | | |
| **SH1.0** 6x3x1mm Spacer (Gray) | x2 | | |
| **SH1.75** 6x3x1.75mm Spacer (Black) | x4 | | |



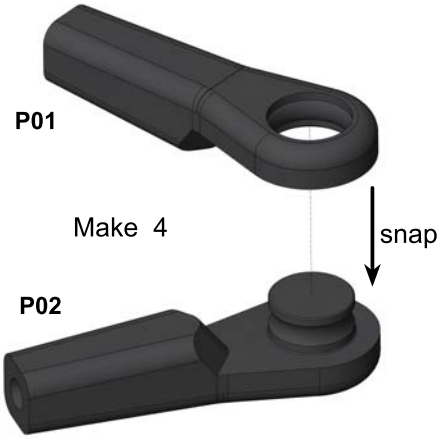
**STEP 47** Tighten up **SB3X6** screws and **AT21** Pivot Balls while pressing the chassis on a flat board.




| | |
|---|---|
| **SB3X6** M3x6 Button Head Screw | x6 |
| **ST09** Upper Collar | x2 |
| **SH1.0** 6x3x1.0mm Spacer (Gray) | x10 |
| **SF3X10** M3x10 Flat Head Screw | x3 |
| **AT21** Pivot Ball | x4 |
| **C02-1** Top Deck L<br>or<br>**C03-1** Top Deck T | x1<br><br>x1 |

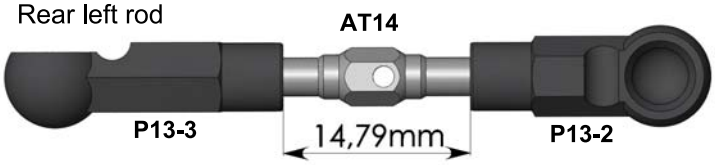
**STEP 48**

## STEP 49

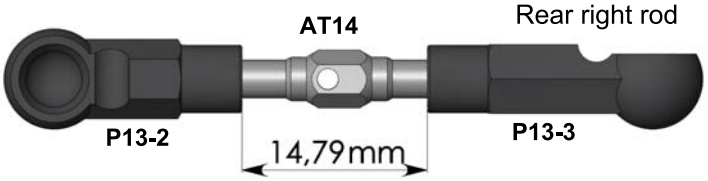


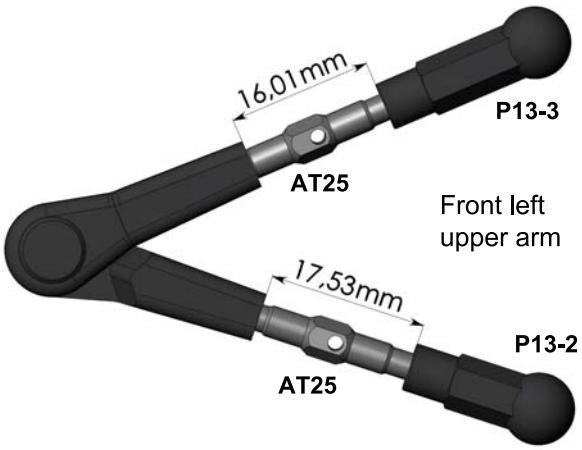

Make 2 front rods

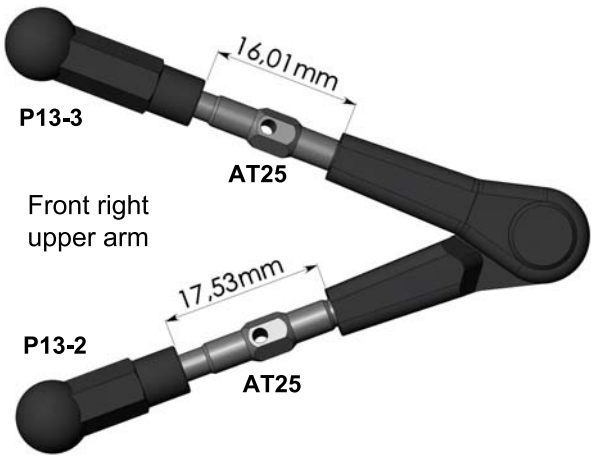

Rear left rod

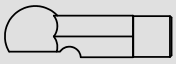


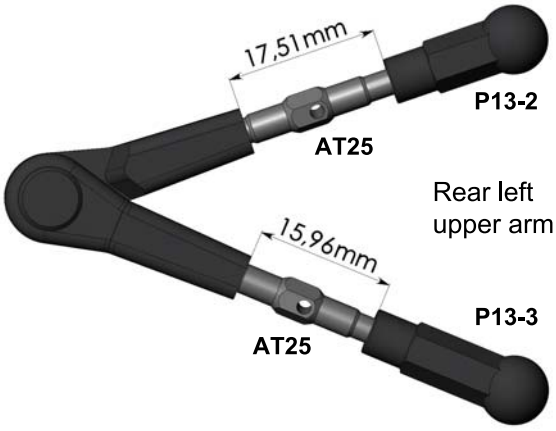

Rear right rod

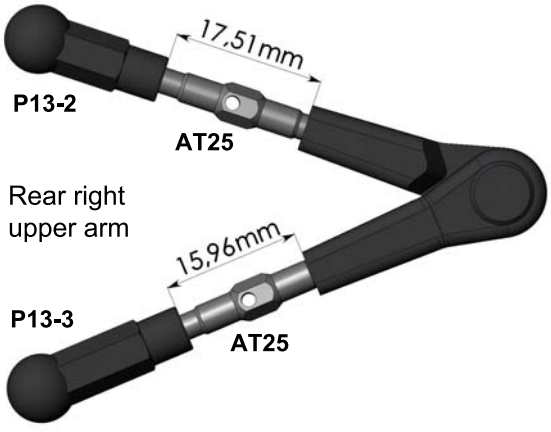


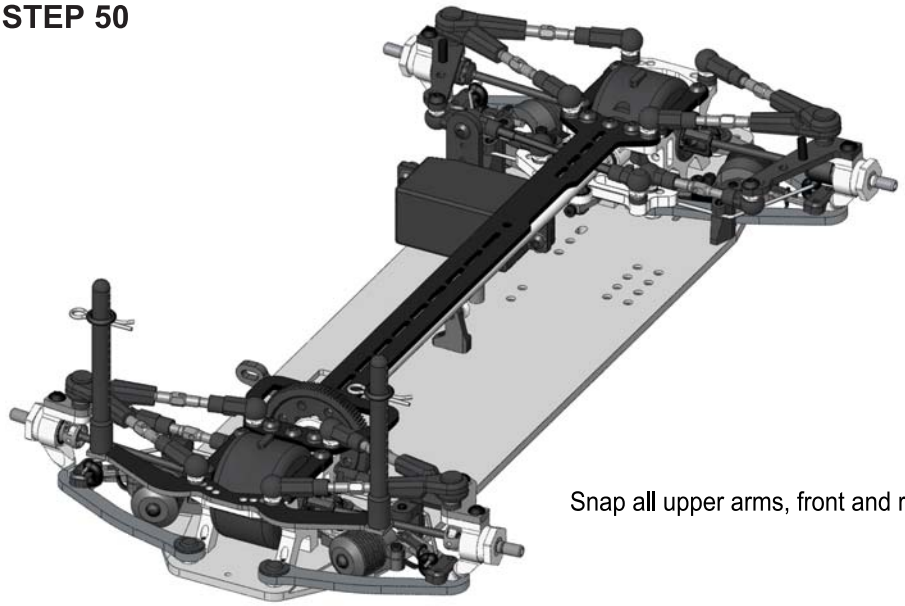

| | | | | | |
|---|---|---|---|---|---|
|  | **P13-1** | Ball End 14mm x4 | **P01** | Ball Joint1 | x4 |
|  | **P13-2** | Ball End 19mm x6 | **P02** | Ball Joint2 | x4 |
|  | **P13-3** | Ball End 22mm x6 | **AT14** | Turnbuckle | x4 |
| | | | **AT25** | Turnbuckle Long | x8 |

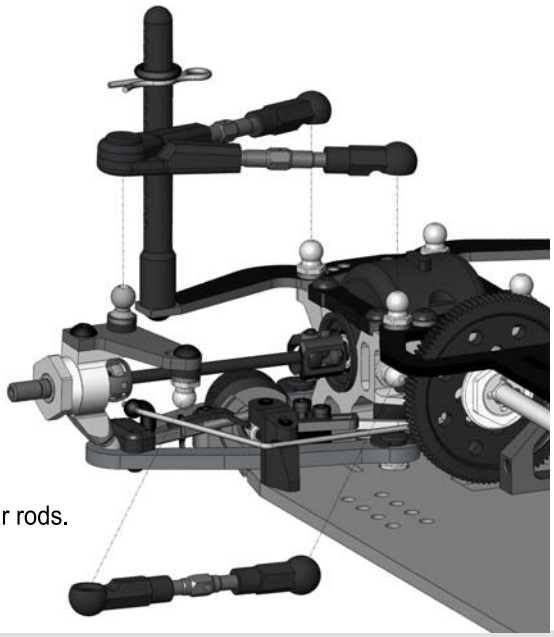



**Notes:** The given rods and arms sizes are approximately for 4° front caster and - 4° rear caster, 1.5° both front and rear camber, 3° rear toe-in and 0° front toe angles.
Use a setup station or angles gauge for further precise suspension geometry setting.
See our recommendations on page #35 for quick and easy suspension geometry change.

## STEP 50

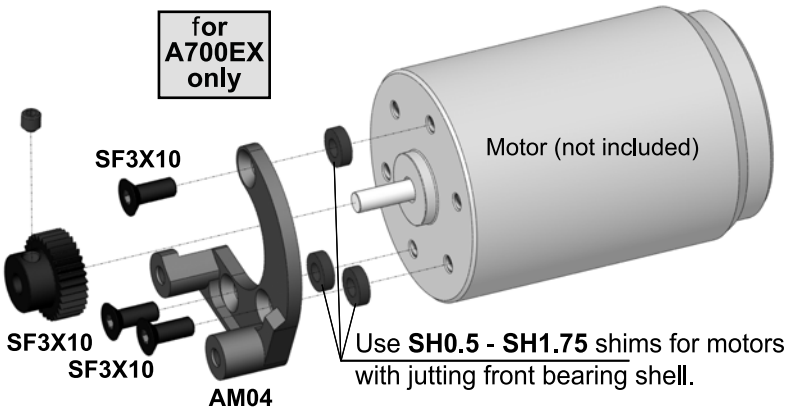




Snap all upper arms, front and rear rods.

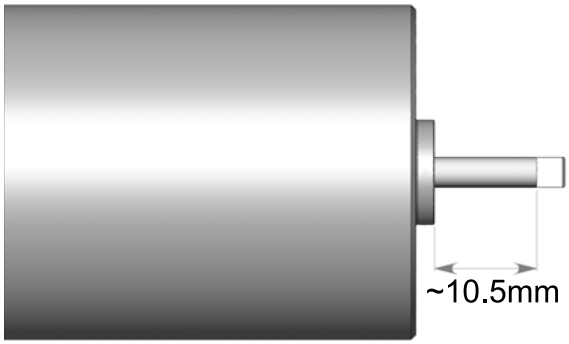
## STEP 51

For transverse motor layout




Check up **Drive Ratio Chart** (p.#41) before pinion gear (not included) installation.

**Note**: Cut motor shaft for minimal possible lateral motor displacement.
Otherwise use additional shims between **AM04** Motor Mount and **AM02** Rear Bar or motor.




**SB3X10** M3x10 Button Head Screw x2

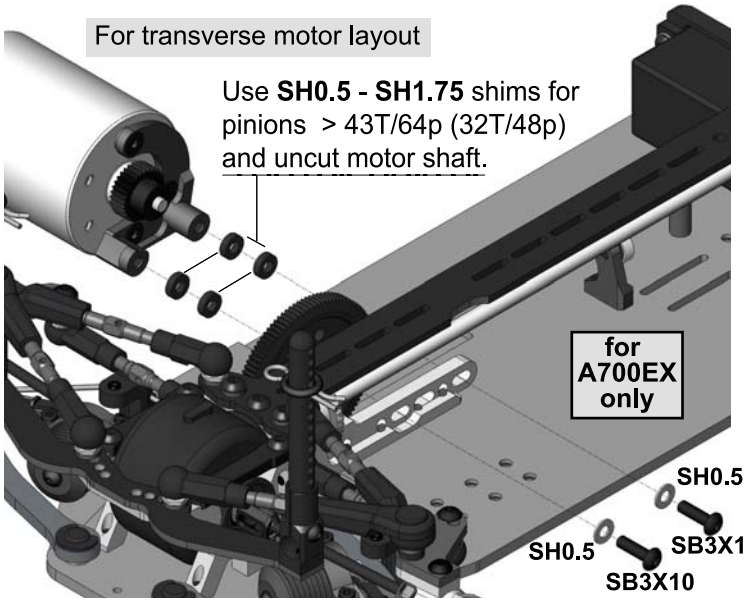
**SF3X10** M3x10 Flat Head Screw x3

**SH0.5** 6x3x0.5mm Spacer (Silver) x2

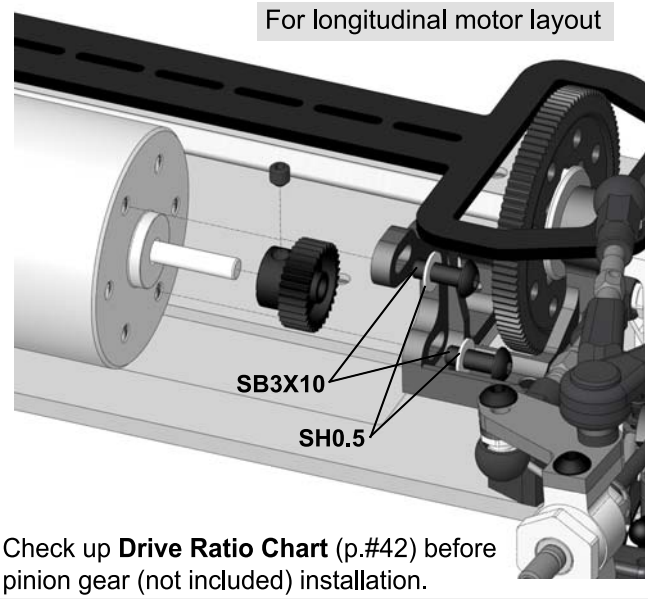
**AM04** Motor Mount T x1

## STEP 52

For transverse motor layout



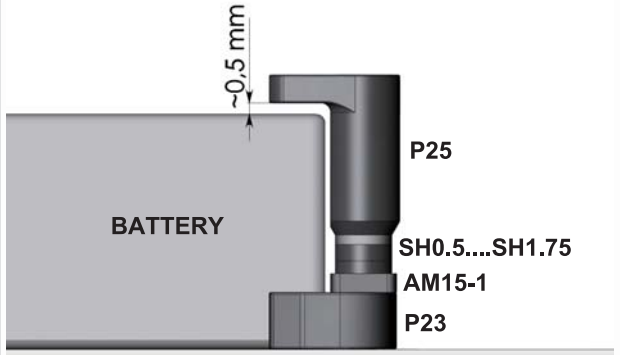

For longitudinal motor layout




Check up **Drive Ratio Chart** (p.#42) before pinion gear (not included) installation.

## STEP 53

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



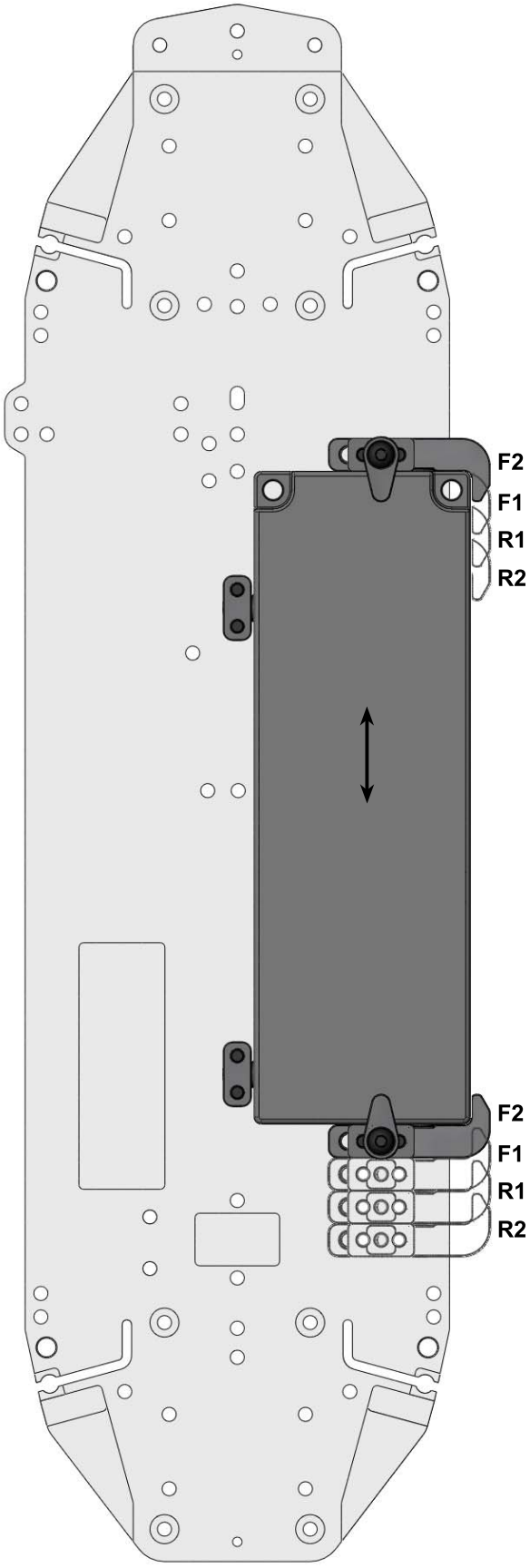




| | | | | |
|---|---|---|---|---|
| **SF3X10** M3x10 Flat Head Screw | x8 | **P23** Outer Battery Holder | x2 |
| **SF3X6** M3x6Flat Head Screw | x4 | **P24** Inner Battery Holder | x2 |
| **SB3X10** M3x10 Button Head Screw | x2 | **P25** Battery Clamp | x2 |
| | | **AM15-1** Battery Nut | x2 |
| | | **SH0.5 SH1.0 SH1.75** Spacers | |

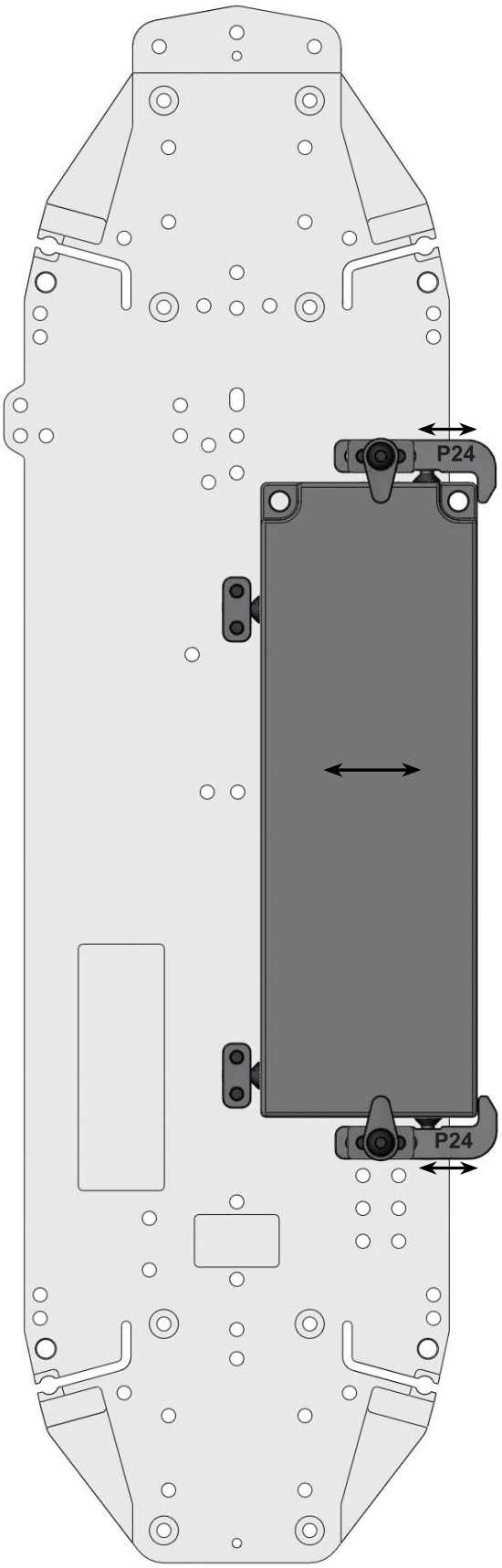
## BATTERY MOUNTING TECHNIQUE

**Front-to-rear battery positions designation.**



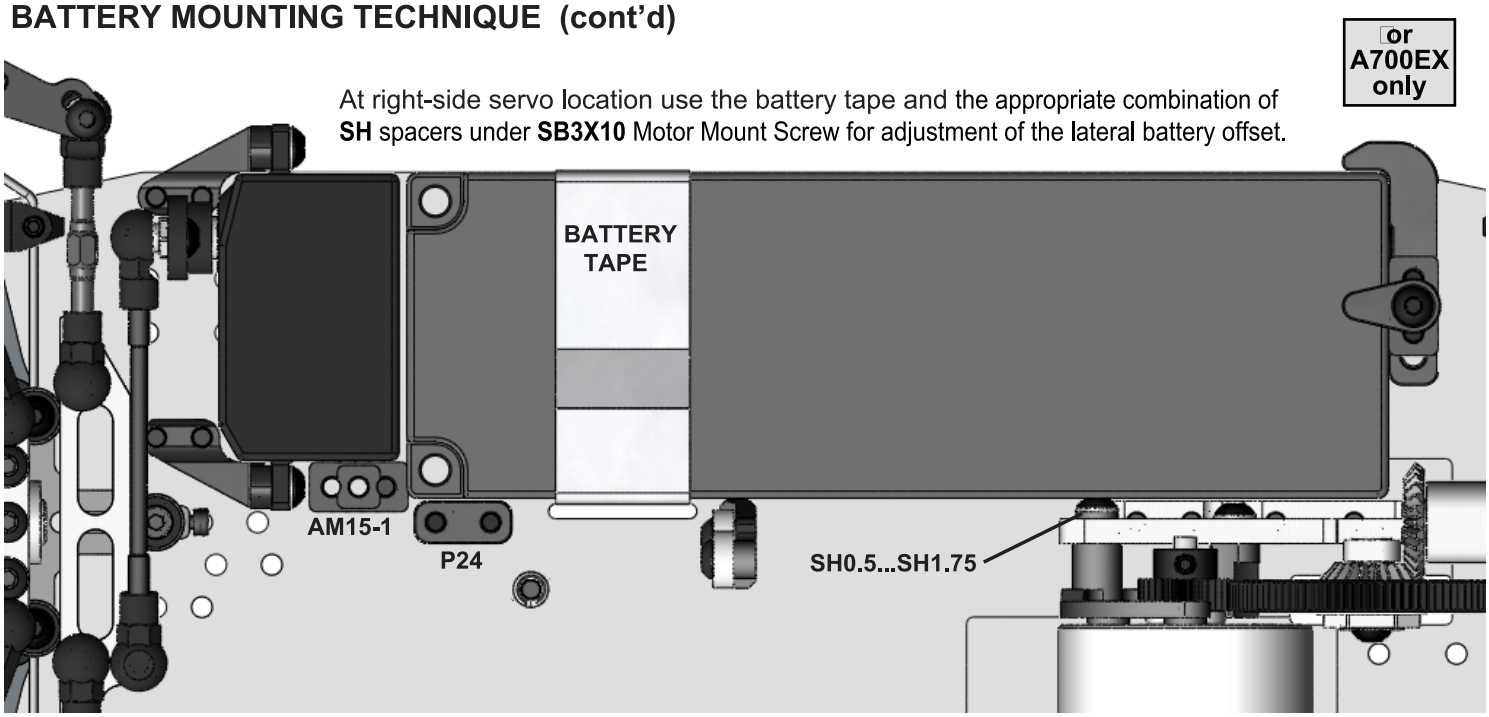

**Battery Holders adjustment:**

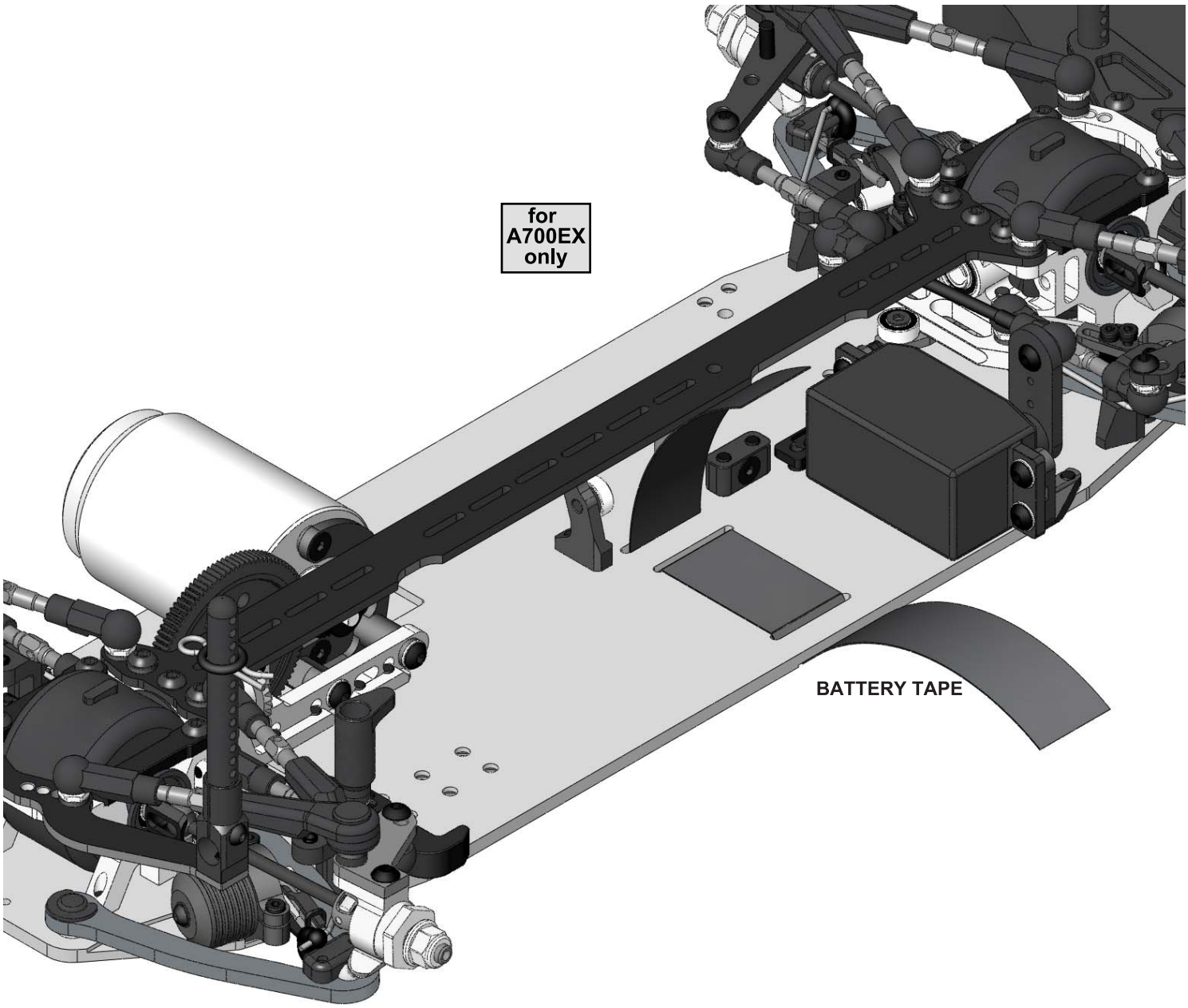
1. Choose the desirable battery position.
2. Tighten up **SF3X10** screws to fix **P23** Battery Holders.
3. Adjust **SF3X6** screws to achieve ~ 0.5 mm clearance between them and the battery.




Use battery displacement for left-to-right and front-to-rear weight balance adjustment without additional lead weight. Battery fixing system allows up to 4 mm lateral offset for battery, 4 front-to-rear battery positions at left-side servo and one front-to-rear position at right-side servo.

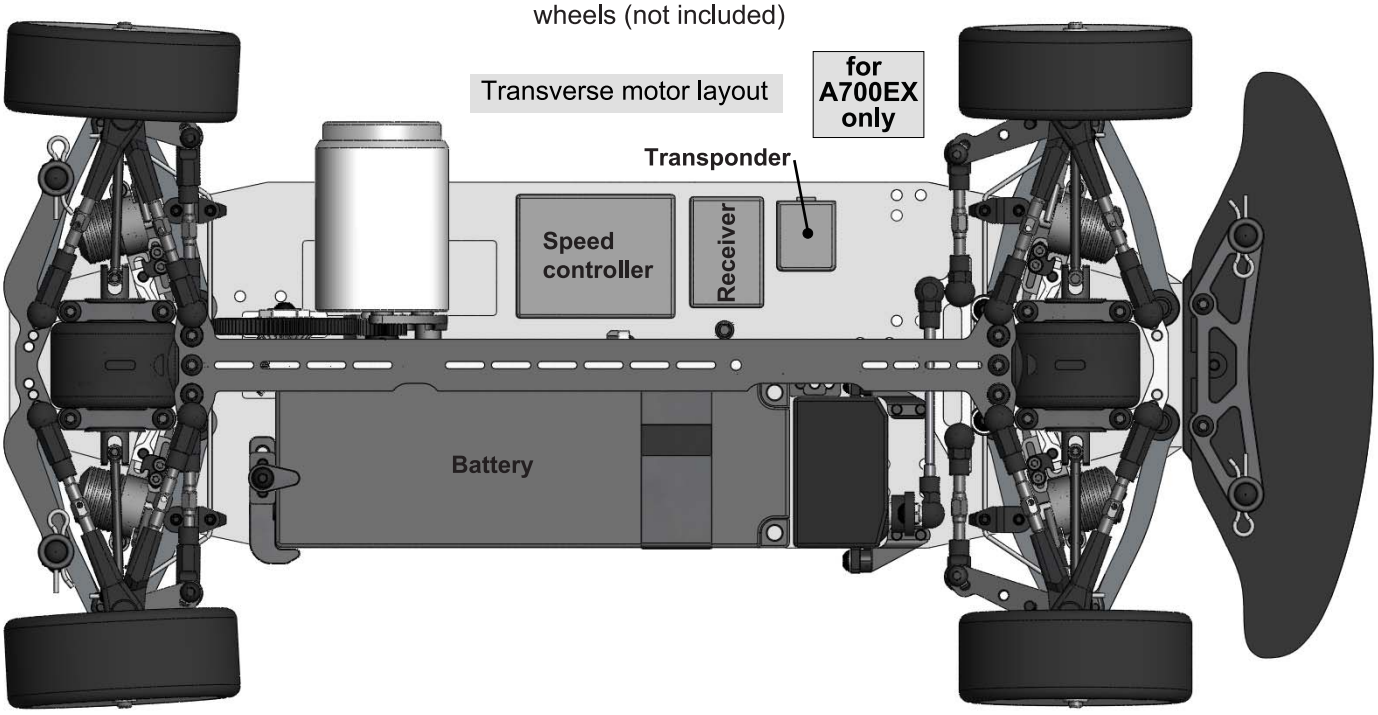
## BATTERY MOUNTING TECHNIQUE (cont'd)

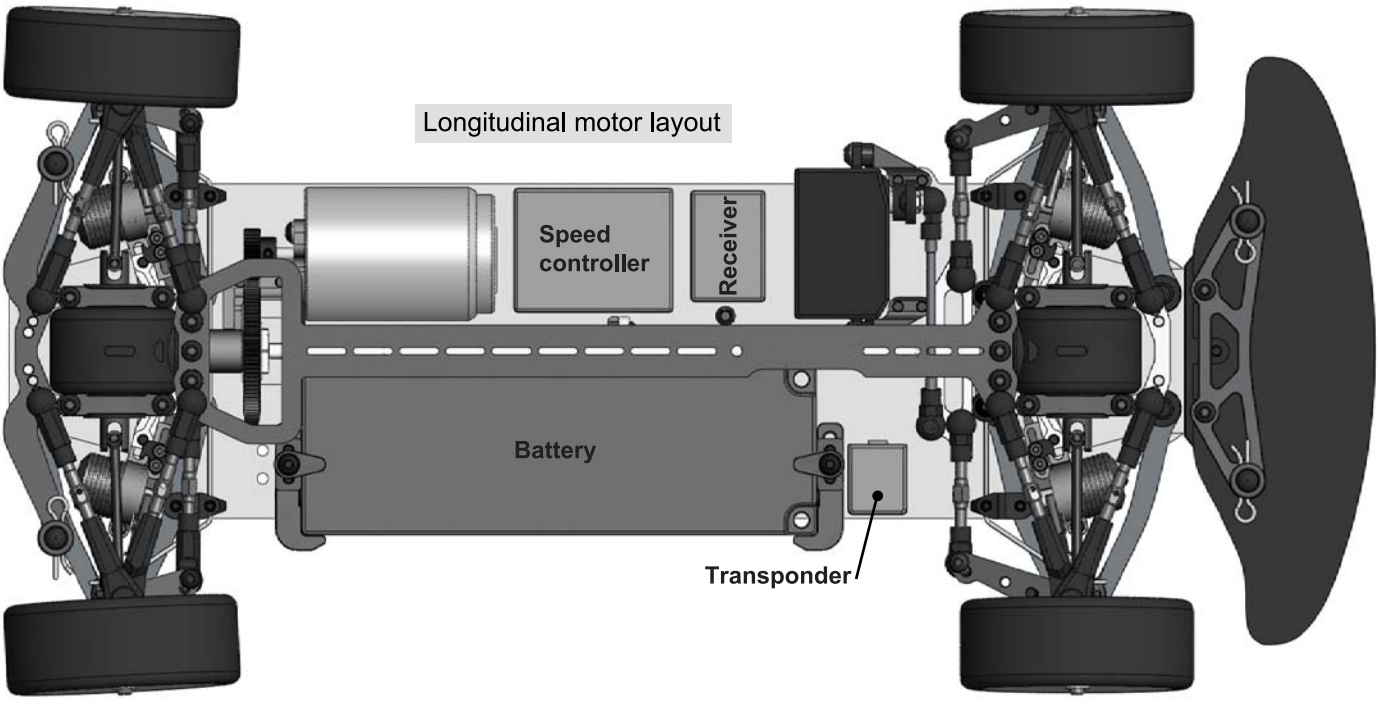


## STEP 54 FINAL ASSEMBLY

**Install:** speed controller (not included),
receiver (not included),
transponder (not included)
battery (not included)
wheels (not included)

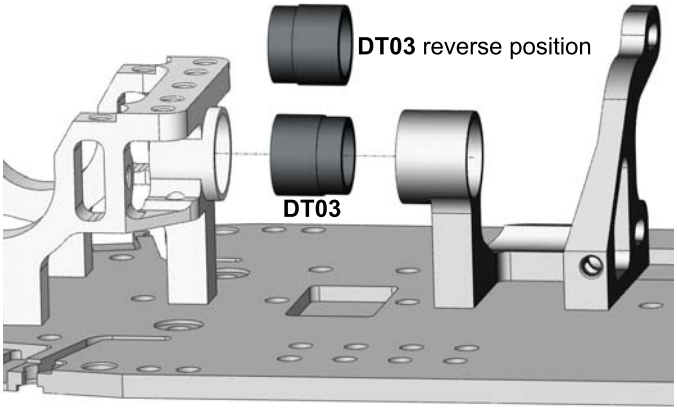


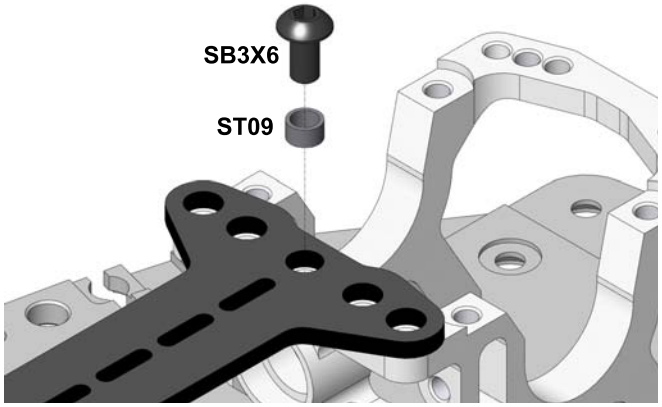

**Note:** Change spur gear without dismounting of **C03** Top Deck !
Take out **AT04** Main Shaft first only.

## CHASSIS FLEX SETTING TECHNIQUE

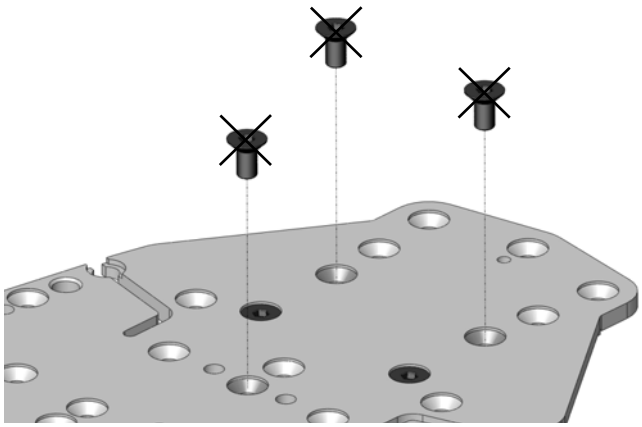
To increase rear flex install **DT03** in reverse position.




For the softest setting use one central **SB3X6** screw only.
It is possible both for front and rear of the chassis.



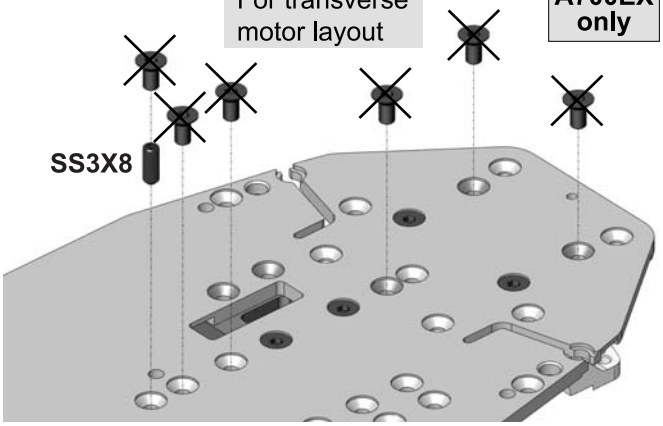

To increase front flex remove these **SB3X6** screws.



To increase rear flex remove some **SF3X6** screws and add one **SS3X8** Set Screw.

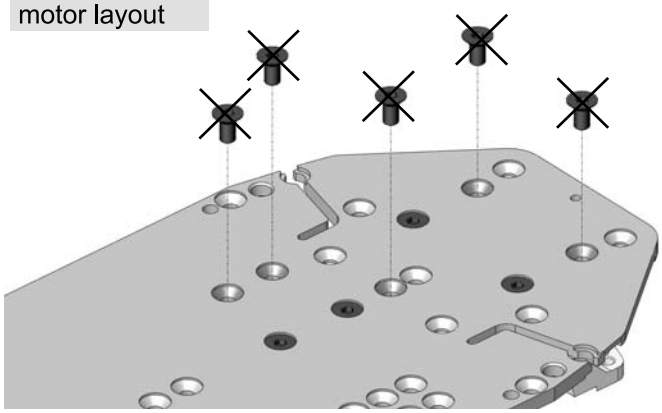
for A700EX only

For transverse motor layout

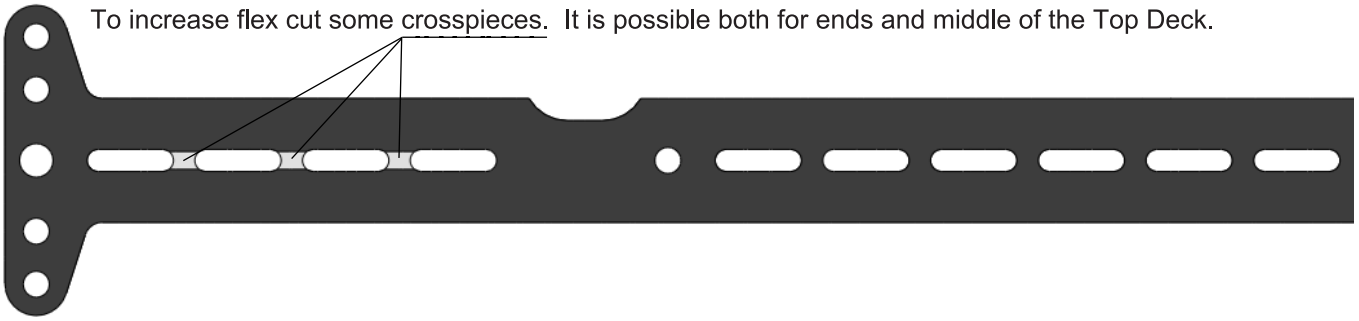



To increase rear flex remove some **SF3X6** screws.

For longitudinal motor layout

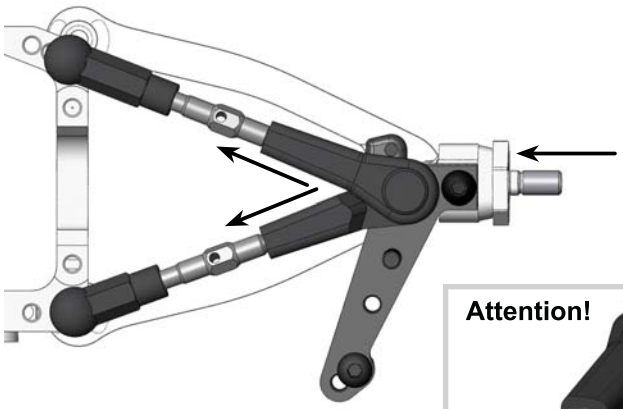


To increase flex cut some crosspieces. It is possible both for ends and middle of the Top Deck.

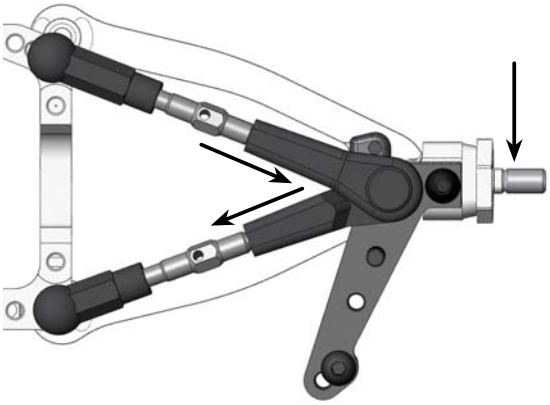


## SUSPENSION SETTING TECHNIQUE

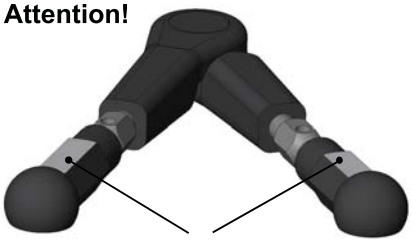
**Camber adjustment rule:** Simultaneous both upper rods 0.5mm shortening (1/2 turn of both turnbuckles) adds 1.0° of camber angle at constant caster.



**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.



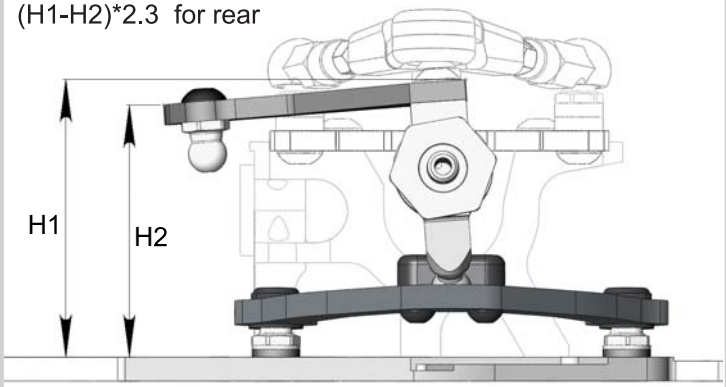
**Attention!**



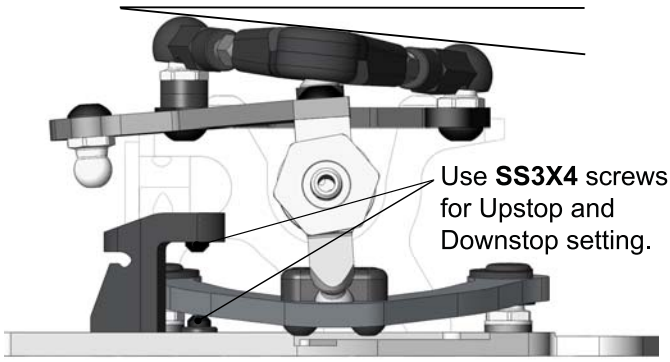
Align these faces of **P13** Ball Ends after completion of all settings.

**Caster measuring:**

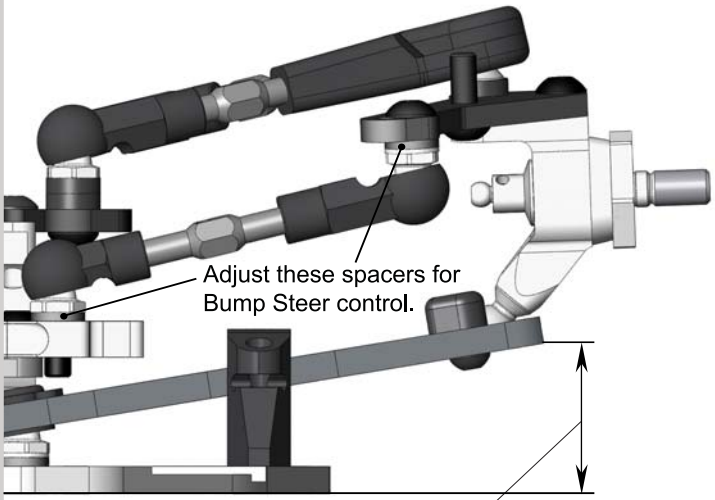
Caster angle° =
(H1-H2)*1.5 for front
(H1-H2)*2.3 for rear




**Reactive Caster** setting is possible.

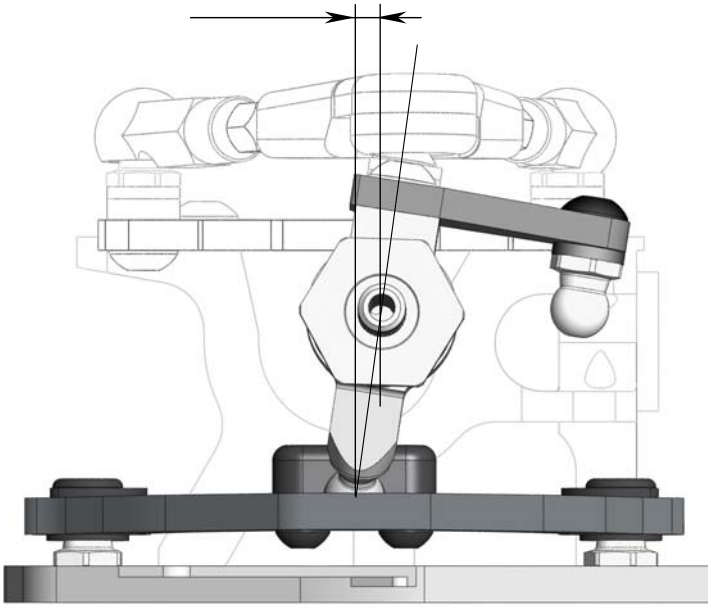



**Roll Center adjustment:**
Use combinations of **SH0.5, SH1.0** and **SH1.75** Spacers under appropriate Pivot Balls and Ball Studs for this adjustment.



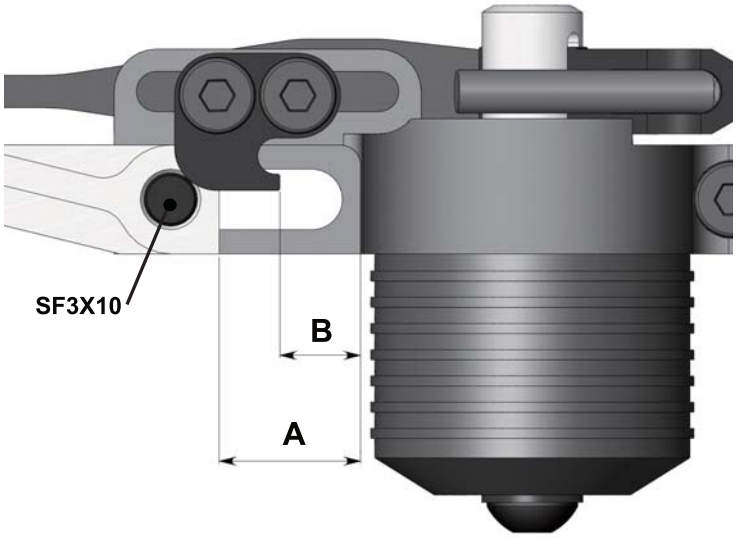

Use Ride Height Gauge for Upstop & Downstop measuring.

**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

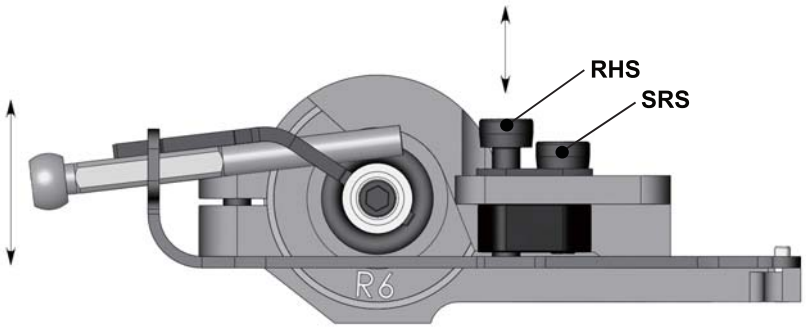
Increase **A** distance (slide Shock outward) to increase Damping and Spring rates simultaneously and concordantly to each other.
Use outer **SF3X10** Flat Head Screw to unlock Shock and to lock it at desirable position.
Decrease **B** distance (slide **P09** Shock Screw Holder outward) to increase Spring 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

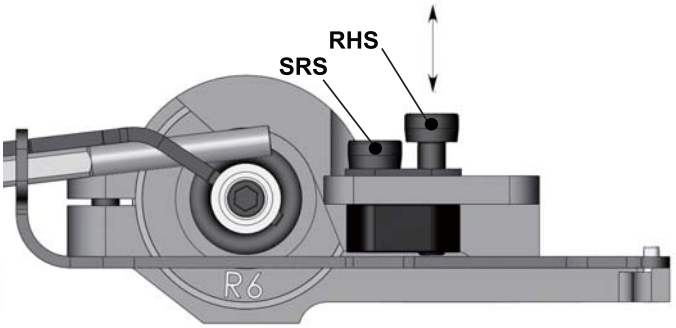
Turn IN (CW) **RHS** Screw to increase spring preload.
Turn OUT (CCW) **RHS** Screw to decrease spring preload.
Use Spring preload setting to adjust Ride Height value.

### 3. SRS/RHS Screws arrangements change

The reverse arrangement of these screws is possible also.

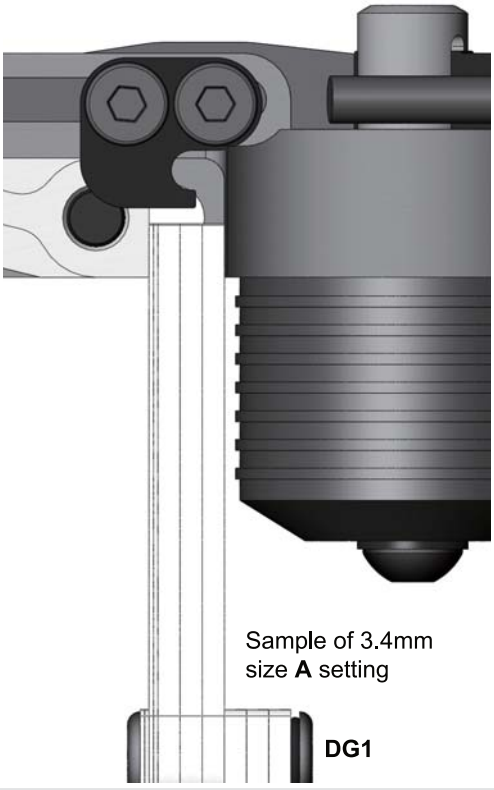


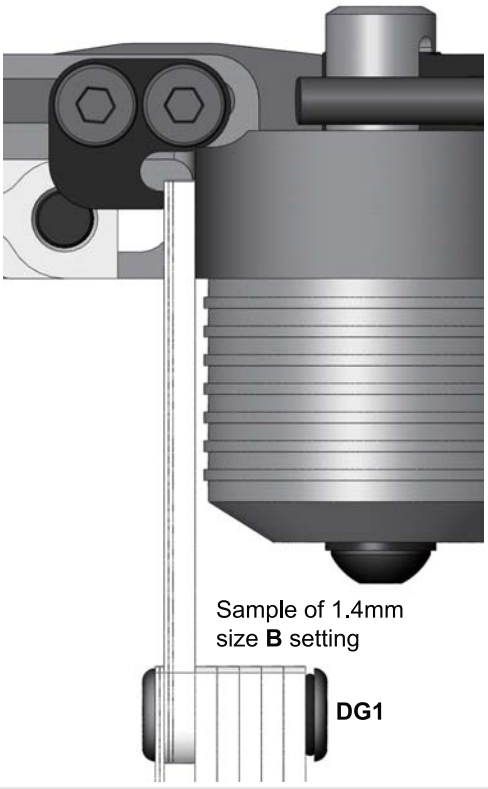

**SRS/RHS** Screws arrangement **I**




**SRS/RHS** Screws arrangement **II**

### 4. Using of DG1 Damper Gauge

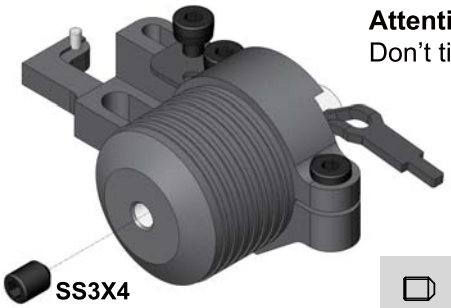



## DAMPER ACTION MODE CHANGE

There are two Damper Action Modes: symmetric and asymmetric modes.
At symmetric Damper Action Mode the compression and rebound strokes are equivalent.
At asymmetric Damper Action Mode the compression stroke is softer than rebound stroke.
Symmetric Damper Action Mode is factory-set. To change this mode:

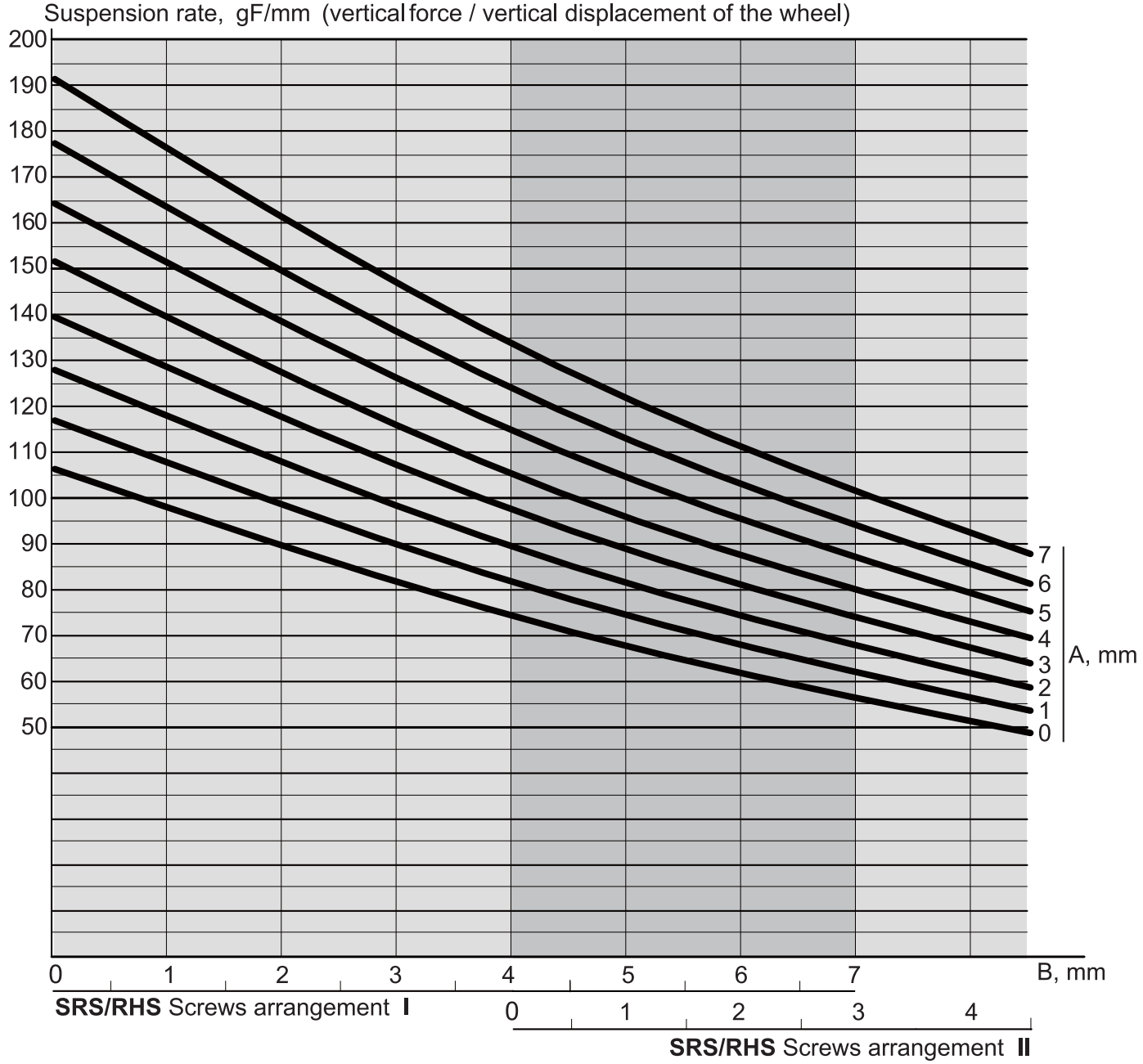
1. Unscrew **SB25X10** Screw . ..... and 2. Replace it with **SS3X4** Screw.

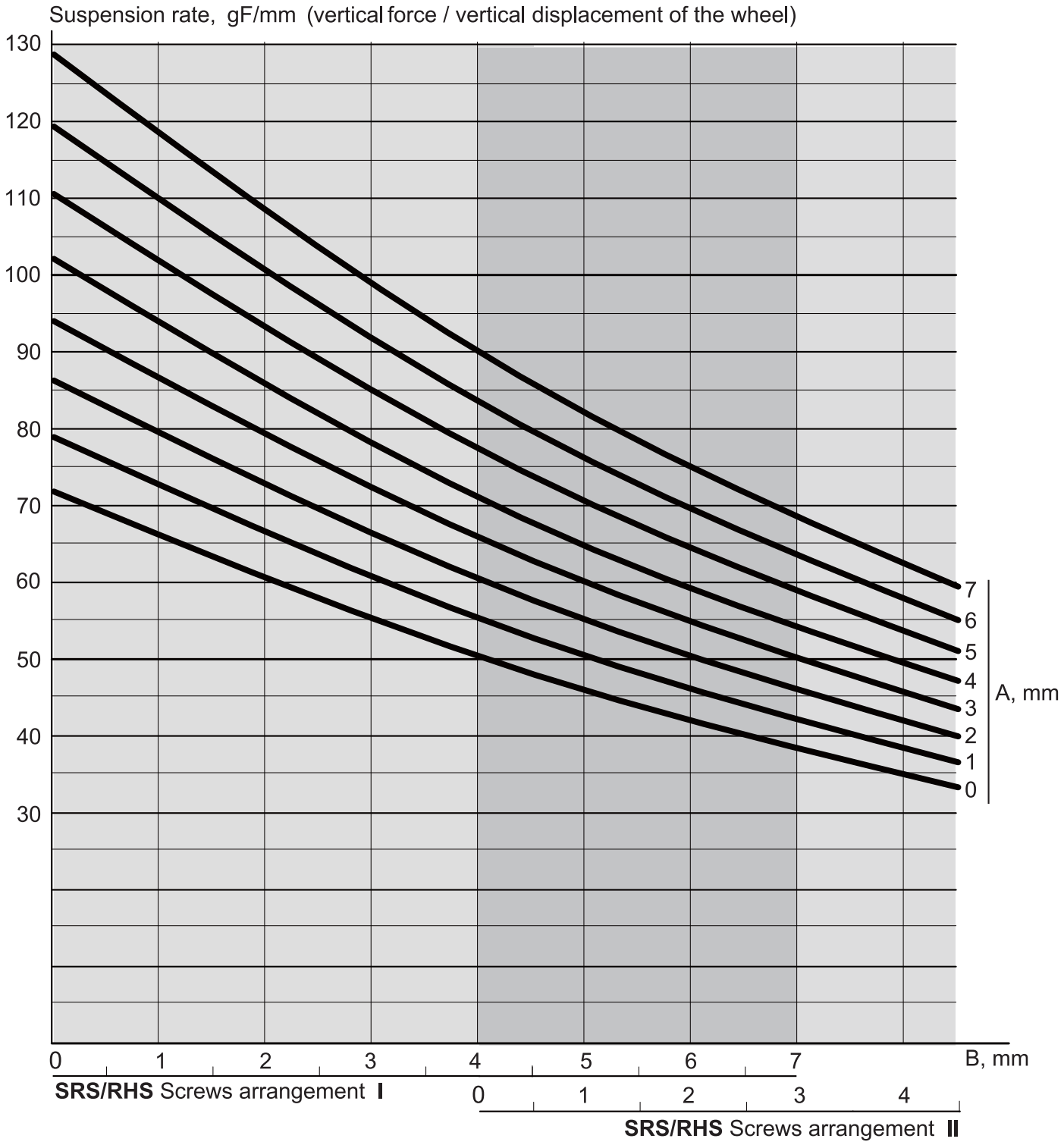

**Attention!**
Don't tighten up **SB25X10** Screws too much.

**SS3X4** M3x4 Set Screw x4

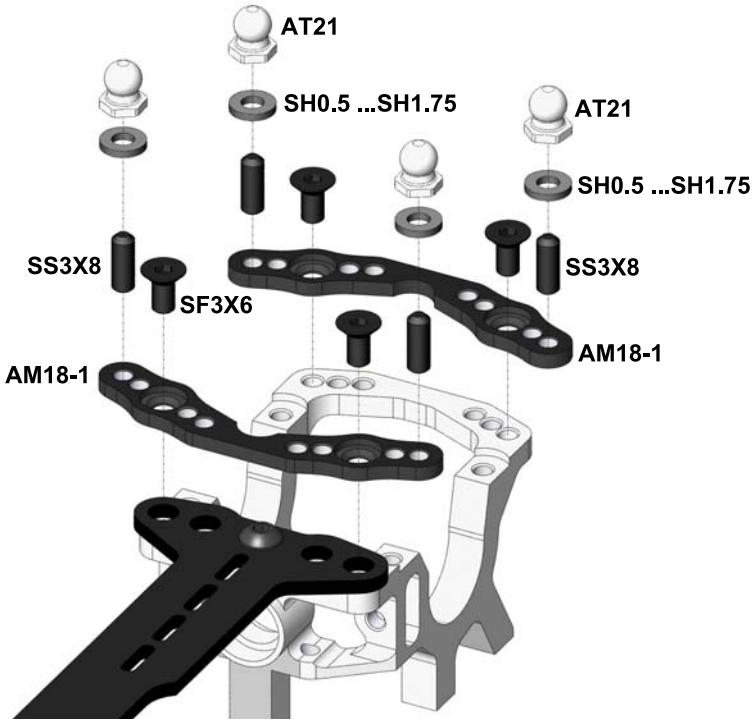
## GRAPHS OF THE SUSPENSION STIFFNESS DEPENDING ON THE POSITION OF THE DAMPER (SIZE A) AND SHOCK SCREW HOLDER (SIZE B) FOR **SPR01** SPRINGS.



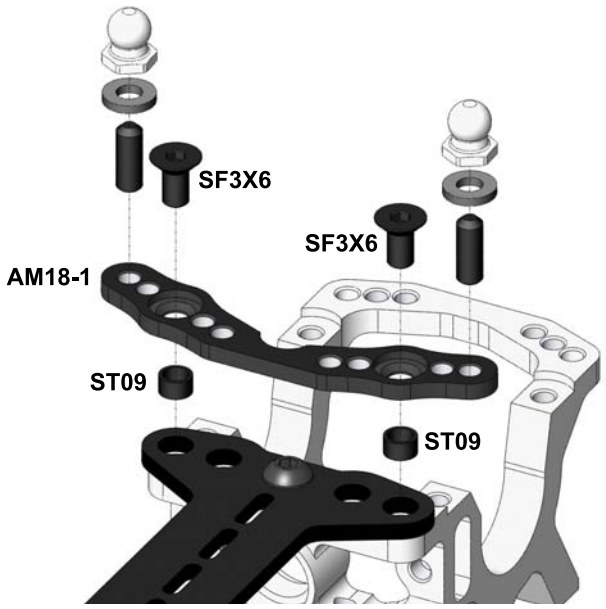
GRAPHS OF THE SUSPENSION STIFFNESS DEPENDING ON THE POSITION OF THE DAMPER (SIZE A) AND SHOCK SCREW HOLDER (SIZE B) FOR **SPR01S SOFT** SPRINGS.



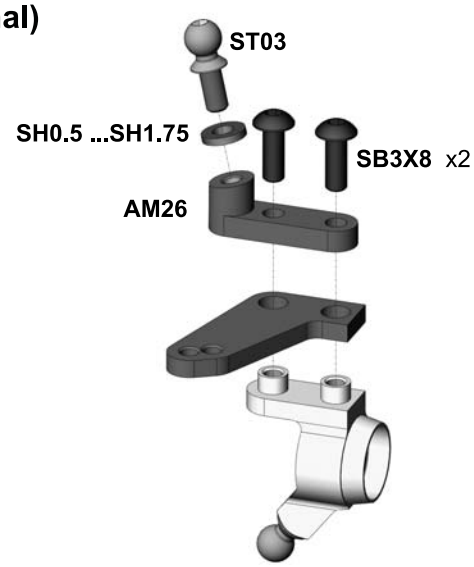
## AM18-1 (optional)

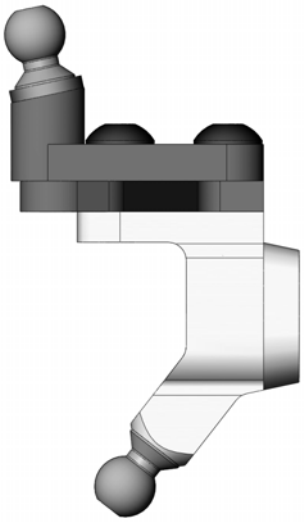



Use **ST09** collars under **AM18-1** for the softest chassis flex setting. See page #34 also.

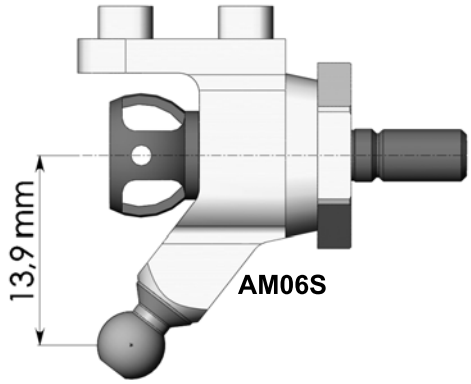



## AM26 (optional)



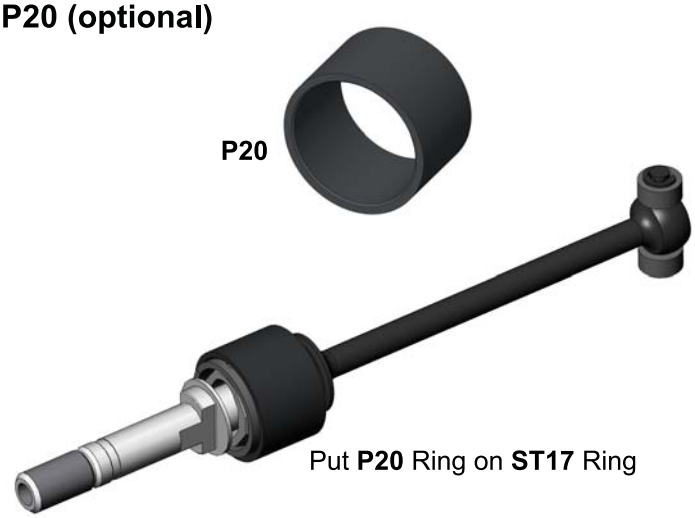



## AM06S (optional)



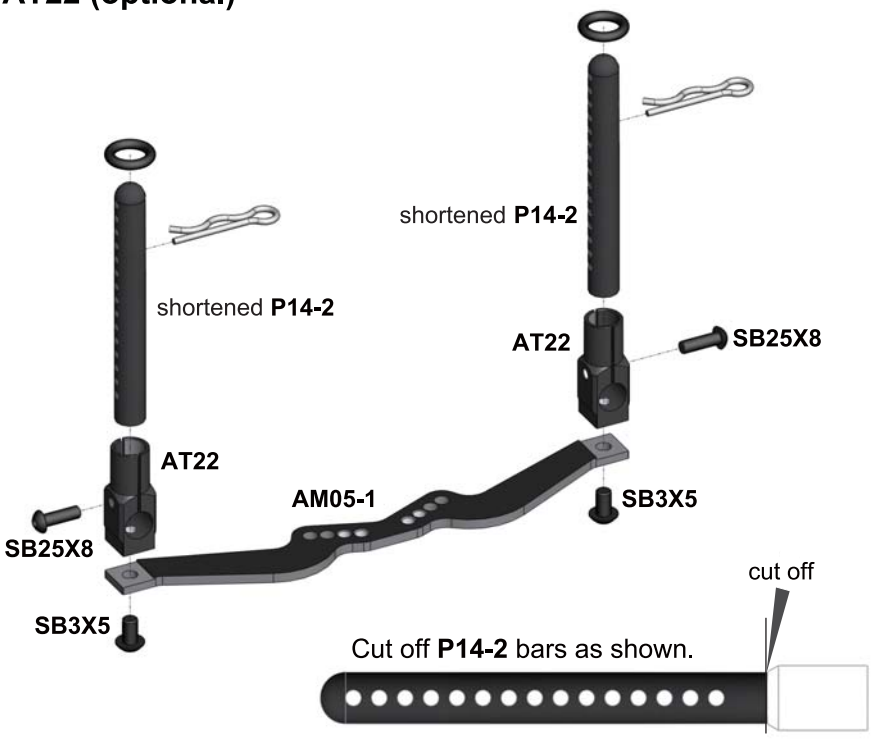

**AM06S** provides ~1mm shorter distance between wheel axis and the lower ST03 ball.
This distance is ~14,9mm at regular **AM06**.

## P20 (optional)



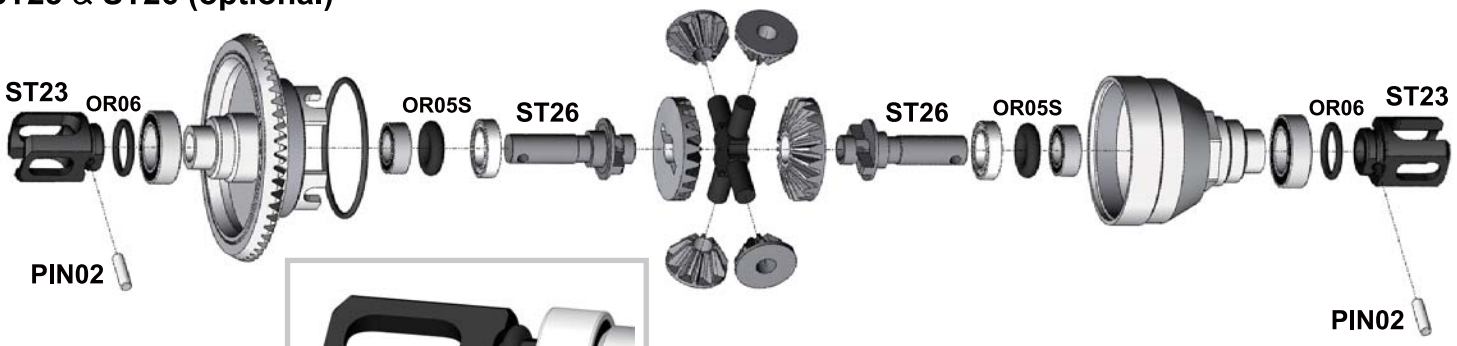

Put **P20** Ring on **ST17** Ring

## AT22 (optional)



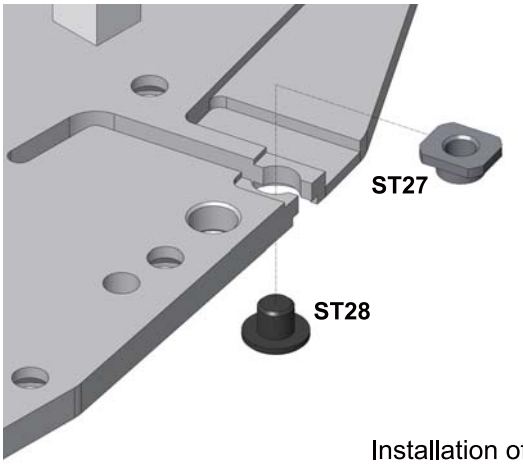

Use the extra shortened **P14-2** bars for additional support of body's tail.

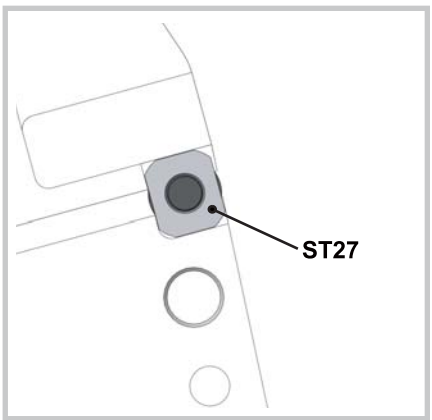

## ST23 & ST26 (optional)





## ST27 & ST28 (optional)





Installation of **ST27** & **ST28** set provides the reducing of chassis flex.

# FINAL DRIVE RATIO CHART

## FOR TRANSVERSE MOTOR LAYOUT ( 2,55 DRIVE TRAIN RATIO )

### 64 PITCH SPUR GEAR

| PINION SIZE | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 12,05 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11,42 | 11,53 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10,84 | 10,94 | 11,05 |
| 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10,30 | 10,40 | 10,51 | 10,61 |
| 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9,81 | 9,91 | 10,00 | 10,10 | 10,20 |
| 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9,35 | 9,44 | 9,54 | 9,63 | 9,73 | 9,82 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | 8,93 | 9,02 | 9,11 | 9,20 | 9,29 | 9,38 | 9,47 |
| 29 | | | | | | | | | | | | | | | | | | | | | | | | | | 8,53 | 8,62 | 8,71 | 8,79 | 8,88 | 8,97 | 9,06 | 9,14 |
| 30 | | | | | | | | | | | | | | | | | | | | | | | | | 8,16 | 8,25 | 8,33 | 8,42 | 8,50 | 8,59 | 8,67 | 8,76 | 8,84 |
| 31 | | | | | | | | | | | | | | | | | | | | | | | | 7,81 | 7,90 | 7,98 | 8,06 | 8,14 | 8,23 | 8,31 | 8,39 | 8,47 | 8,55 |
| 32 | | | | | | | | | | | | | | | | | | | | | | | 7,49 | 7,57 | 7,65 | 7,73 | 7,81 | 7,89 | 7,97 | 8,05 | 8,13 | 8,21 | 8,29 |
| 33 | | | | | | | | | | | | | | | | | | | | | | 7,19 | 7,26 | 7,34 | 7,42 | 7,50 | 7,57 | 7,65 | 7,73 | 7,80 | 7,88 | 7,96 | 8,04 |
| 34 | | | | | | | | | | | | | | | | | | | | | 6,90 | 6,98 | 7,05 | 7,13 | 7,20 | 7,28 | 7,35 | 7,43 | 7,50 | 7,58 | 7,65 | 7,73 | 7,80 |
| 35 | | | | | | | | | | | | | | | | | | | | 6,63 | 6,70 | 6,78 | 6,85 | 6,92 | 6,99 | 7,07 | 7,14 | 7,21 | 7,29 | 7,36 | 7,43 | 7,50 | 7,58 |
| 36 | | | | | | | | | | | | | | | | | | | 6,38 | 6,45 | 6,52 | 6,59 | 6,66 | 6,73 | 6,80 | 6,87 | 6,94 | 7,01 | 7,08 | 7,15 | 7,23 | 7,30 | 7,37 |
| 37 | | | | | | | | | | | | | | | | | | 6,13 | 6,20 | 6,27 | 6,34 | 6,41 | 6,48 | 6,55 | 6,62 | 6,69 | 6,75 | 6,82 | 6,89 | 6,96 | 7,03 | 7,10 | 7,17 |
| 38 | | | | | | | | | | | | | | | | | 5,91 | 5,97 | 6,04 | 6,11 | 6,17 | 6,24 | 6,31 | 6,38 | 6,44 | 6,51 | 6,58 | 6,64 | 6,71 | 6,78 | 6,84 | 6,91 | 6,98 |
| 39 | | | | | | | | | | | | | | | | 5,69 | 5,75 | 5,82 | 5,88 | 5,95 | 6,02 | 6,08 | 6,15 | 6,21 | 6,28 | 6,34 | 6,41 | 6,47 | 6,54 | 6,60 | 6,67 | 6,73 | |
| 40 | | | | | | | | | | | | | | | 5,48 | 5,55 | 5,61 | 5,67 | 5,74 | 5,80 | 5,87 | 5,93 | 5,99 | 6,06 | 6,12 | 6,18 | 6,25 | 6,31 | 6,38 | 6,44 | 6,50 | | |
| 41 | | | | | | | | | | | | | | 5,29 | 5,35 | 5,41 | 5,47 | 5,54 | 5,60 | 5,66 | 5,72 | 5,78 | 5,85 | 5,91 | 5,97 | 6,03 | 6,10 | 6,16 | 6,22 | 6,28 | | | |
| 42 | | | | | | | | | | | | | 5,10 | 5,16 | 5,22 | 5,28 | 5,34 | 5,40 | 5,46 | 5,53 | 5,59 | 5,65 | 5,71 | 5,77 | 5,83 | 5,89 | 5,95 | 6,01 | 6,07 | | | | |
| 43 | | | | | | | | | | | | 4,92 | 4,98 | 5,04 | 5,10 | 5,16 | 5,22 | 5,28 | 5,34 | 5,40 | 5,46 | 5,52 | 5,57 | 5,63 | 5,69 | 5,75 | 5,81 | 5,87 | | | | | |
| 44 | | | | | | | | | | | 4,75 | 4,81 | 4,87 | 4,93 | 4,98 | 5,04 | 5,10 | 5,16 | 5,22 | 5,27 | 5,33 | 5,39 | 5,45 | 5,51 | 5,56 | 5,62 | 5,68 | | | | | | |
| 45 | | | | | | | | | | 4,59 | 4,65 | 4,70 | 4,76 | 4,82 | 4,87 | 4,93 | 4,99 | 5,04 | 5,10 | 5,16 | 5,21 | 5,27 | 5,33 | 5,38 | 5,44 | 5,50 | | | | | | | |
| 46 | | | | | | | | | 4,43 | 4,49 | 4,55 | 4,60 | 4,66 | 4,71 | 4,77 | 4,82 | 4,88 | 4,93 | 4,99 | 5,04 | 5,10 | 5,16 | 5,21 | 5,27 | 5,32 | | | | | | | | |
| 47 | | | | | | | | 4,29 | 4,34 | 4,39 | 4,45 | 4,50 | 4,56 | 4,61 | 4,67 | 4,72 | 4,77 | 4,83 | 4,88 | 4,94 | 4,99 | 5,05 | 5,10 | 5,15 | | | | | | | | | |
| 48 | | | | | | | 4,14 | 4,20 | 4,25 | 4,30 | 4,36 | 4,41 | 4,46 | 4,52 | 4,57 | 4,62 | 4,68 | 4,73 | 4,78 | 4,83 | 4,89 | 4,94 | 4,99 | | | | | | | | | | |
| 49 | | | | | | 4,01 | 4,06 | 4,11 | 4,16 | 4,22 | 4,27 | 4,32 | 4,37 | 4,42 | 4,48 | 4,53 | 4,58 | 4,63 | 4,68 | 4,74 | 4,79 | 4,84 | | | | | | | | | | | |
| 50 | | | | | 3,88 | 3,93 | 3,98 | 4,03 | 4,08 | 4,13 | 4,18 | 4,23 | 4,28 | 4,34 | 4,39 | 4,44 | 4,49 | 4,54 | 4,59 | 4,64 | 4,69 | | | | | | | | | | | | |
| 51 | | | | 3,75 | 3,80 | 3,85 | 3,90 | 3,95 | 4,00 | 4,05 | 4,10 | 4,15 | 4,20 | 4,25 | 4,30 | 4,35 | 4,40 | 4,45 | 4,50 | 4,55 | | | | | | | | | | | | | |
| 52 | | | 3,63 | 3,68 | 3,73 | 3,78 | 3,83 | 3,87 | 3,92 | 3,97 | 4,02 | 4,07 | 4,12 | 4,17 | 4,22 | 4,27 | 4,32 | 4,36 | 4,41 | | | | | | | | | | | | | | |
| 53 | | 3,51 | 3,56 | 3,61 | 3,66 | 3,70 | 3,75 | 3,80 | 3,85 | 3,90 | 3,95 | 3,99 | 4,04 | 4,09 | 4,14 | 4,19 | 4,23 | 4,28 | | | | | | | | | | | | | | | |
| 54 | 3,40 | 3,45 | 3,49 | 3,54 | 3,59 | 3,64 | 3,68 | 3,73 | 3,78 | 3,83 | 3,87 | 3,92 | 3,97 | 4,01 | 4,06 | 4,11 | 4,16 | | | | | | | | | | | | | | | | |
| 55 | 3,34 | 3,38 | 3,43 | 3,48 | 3,52 | 3,57 | 3,62 | 3,66 | 3,71 | 3,76 | 3,80 | 3,85 | 3,89 | 3,94 | 3,99 | 4,03 | | | | | | | | | | | | | | | | | |
| 56 | 3,28 | 3,32 | 3,37 | 3,42 | 3,46 | 3,51 | 3,55 | 3,60 | 3,64 | 3,69 | 3,73 | 3,78 | 3,83 | 3,87 | 3,92 | | | | | | | | | | | | | | | | | | |

### 48 PITCH SPUR GEAR

| PINION SIZE | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17 | | | | | | | | | | | | | | | | | | | | | | | | | | 11,70 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 10,91 | 11,05 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | 10,20 | 10,33 | 10,47 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | 9,56 | 9,69 | 9,82 | 9,95 |
| 21 | | | | | | | | | | | | | | | | | | | | | | 8,99 | 9,11 | 9,23 | 9,35 | 9,47 |
| 22 | | | | | | | | | | | | | | | | | | | | | 8,46 | 8,58 | 8,69 | 8,81 | 8,93 | 9,04 |
| 23 | | | | | | | | | | | | | | | | | | | | 7,98 | 8,09 | 8,20 | 8,32 | 8,43 | 8,54 | 8,65 |
| 24 | | | | | | | | | | | | | | | | | | | 7,54 | 7,65 | 7,76 | 7,86 | 7,97 | 8,08 | 8,18 | 8,29 |
| 25 | | | | | | | | | | | | | | | | | | 7,14 | 7,24 | 7,34 | 7,45 | 7,55 | 7,65 | 7,75 | 7,85 | 7,96 |
| 26 | | | | | | | | | | | | | | | | | 6,77 | 6,87 | 6,96 | 7,06 | 7,16 | 7,26 | 7,36 | 7,45 | 7,55 | 7,65 |
| 27 | | | | | | | | | | | | | | | | 6,42 | 6,52 | 6,61 | 6,71 | 6,80 | 6,89 | 6,99 | 7,08 | 7,18 | 7,27 | 7,37 |
| 28 | | | | | | | | | | | | | | | 6,10 | 6,19 | 6,28 | 6,38 | 6,47 | 6,56 | 6,65 | 6,74 | 6,83 | 6,92 | 7,01 | 7,10 |
| 29 | | | | | | | | | | | | | | 5,80 | 5,89 | 5,98 | 6,07 | 6,16 | 6,24 | 6,33 | 6,42 | 6,51 | 6,59 | 6,68 | 6,77 | 6,86 |
| 30 | | | | | | | | | | | | | 5,53 | 5,61 | 5,70 | 5,78 | 5,87 | 5,95 | 6,04 | 6,12 | 6,21 | 6,29 | 6,38 | 6,46 | 6,55 | |
| 31 | | | | | | | | | | | | 5,26 | 5,35 | 5,43 | 5,51 | 5,59 | 5,68 | 5,76 | 5,84 | 5,92 | 6,00 | 6,09 | 6,17 | 6,25 | | |
| 32 | | | | | | | | | | | 5,02 | 5,10 | 5,18 | 5,26 | 5,34 | 5,42 | 5,50 | 5,58 | 5,66 | 5,74 | 5,82 | 5,90 | 5,98 | | | |
| 33 | | | | | | | | | | 4,79 | 4,87 | 4,95 | 5,02 | 5,10 | 5,18 | 5,25 | 5,33 | 5,41 | 5,49 | 5,56 | 5,64 | 5,72 | | | | |
| 34 | | | | | | | | | 4,58 | 4,65 | 4,73 | 4,80 | 4,88 | 4,95 | 5,03 | 5,10 | 5,18 | 5,25 | 5,33 | 5,40 | 5,48 | | | | | |
| 35 | | | | | | | | 4,37 | 4,44 | 4,52 | 4,59 | 4,66 | 4,74 | 4,81 | 4,88 | 4,95 | 5,03 | 5,10 | 5,17 | 5,25 | | | | | | |
| 36 | | | | | | | 4,18 | 4,25 | 4,32 | 4,39 | 4,46 | 4,53 | 4,60 | 4,68 | 4,75 | 4,82 | 4,89 | 4,96 | 5,03 | | | | | | | |
| 37 | | | | | | 4,00 | 4,07 | 4,14 | 4,20 | 4,27 | 4,34 | 4,41 | 4,48 | 4,55 | 4,62 | 4,69 | 4,76 | 4,82 | | | | | | | | |
| 38 | | | | | 3,83 | 3,89 | 3,96 | 4,03 | 4,09 | 4,16 | 4,23 | 4,29 | 4,36 | 4,43 | 4,50 | 4,56 | 4,63 | | | | | | | | | |
| 39 | | | | 3,66 | 3,73 | 3,79 | 3,86 | 3,92 | 3,99 | 4,05 | 4,12 | 4,18 | 4,25 | 4,32 | 4,38 | 4,45 | | | | | | | | | | |
| 40 | | | 3,51 | 3,57 | 3,63 | 3,70 | 3,76 | 3,83 | 3,89 | 3,95 | 4,02 | 4,08 | 4,14 | 4,21 | 4,27 | | | | | | | | | | | |
| 41 | | 3,36 | 3,42 | 3,48 | 3,55 | 3,61 | 3,67 | 3,73 | 3,79 | 3,86 | 3,92 | 3,98 | 4,04 | 4,10 | | | | | | | | | | | | |
| 42 | 3,22 | 3,28 | 3,34 | 3,40 | 3,46 | 3,52 | 3,58 | 3,64 | 3,70 | 3,76 | 3,83 | 3,89 | 3,95 | | | | | | | | | | | | | |

# FINAL DRIVE RATIO CHART (cont'd)

## FOR LONGITUDINAL MOTOR LAYOUT ( 2,08 DRIVE TRAIN RATIO )

### 64 PITCH SPUR GEAR

| PINION SIZE | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 11,32 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10,62 | 10,73 |
| 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | 9,98 | 10,09 | 10,19 |
| 21 | | | | | | | | | | | | | | | | | | | | | | | | | | 9,41 | 9,51 | 9,61 | 9,71 |
| 22 | | | | | | | | | | | | | | | | | | | | | | | | | 8,89 | 8,98 | 9,08 | 9,17 | 9,27 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | 8,41 | 8,50 | 8,59 | 8,68 | 8,77 | 8,86 |
| 24 | | | | | | | | | | | | | | | | | | | | | | | 7,97 | 8,06 | 8,15 | 8,23 | 8,32 | 8,41 | 8,49 |
| 25 | | | | | | | | | | | | | | | | | | | | | | 7,57 | 7,65 | 7,74 | 7,82 | 7,90 | 7,99 | 8,07 | 8,15 |
| 26 | | | | | | | | | | | | | | | | | | | | | 7,20 | 7,28 | 7,36 | 7,44 | 7,52 | 7,60 | 7,68 | 7,76 | 7,84 |
| 27 | | | | | | | | | | | | | | | | | | | | 6,86 | 6,93 | 7,01 | 7,09 | 7,16 | 7,24 | 7,32 | 7,40 | 7,47 | 7,55 |
| 28 | | | | | | | | | | | | | | | | | | | 6,54 | 6,61 | 6,69 | 6,76 | 6,83 | 6,91 | 6,98 | 7,06 | 7,13 | 7,21 | 7,28 |
| 29 | | | | | | | | | | | | | | | | | | 6,24 | 6,31 | 6,38 | 6,46 | 6,53 | 6,60 | 6,67 | 6,74 | 6,81 | 6,89 | 6,96 | 7,03 |
| 30 | | | | | | | | | | | | | | | | | 5,96 | 6,03 | 6,10 | 6,17 | 6,24 | 6,31 | 6,38 | 6,45 | 6,52 | 6,59 | 6,66 | 6,73 | 6,79 |
| 31 | | | | | | | | | | | | | | | | 5,70 | 5,77 | 5,84 | 5,90 | 5,97 | 6,04 | 6,11 | 6,17 | 6,24 | 6,31 | 6,37 | 6,44 | 6,51 | 6,58 |
| 32 | | | | | | | | | | | | | | | 5,46 | 5,53 | 5,59 | 5,66 | 5,72 | 5,79 | 5,85 | 5,92 | 5,98 | 6,05 | 6,11 | 6,18 | 6,24 | 6,31 | 6,37 |
| 33 | | | | | | | | | | | | | | 5,23 | 5,29 | 5,36 | 5,42 | 5,48 | 5,55 | 5,61 | 5,67 | 5,74 | 5,80 | 5,86 | 5,92 | 5,99 | 6,05 | 6,11 | 6,18 |
| 34 | | | | | | | | | | | | | 5,02 | 5,08 | 5,14 | 5,20 | 5,26 | 5,32 | 5,38 | 5,44 | 5,51 | 5,57 | 5,63 | 5,69 | 5,75 | 5,81 | 5,87 | 5,93 | 6,00 |
| 35 | | | | | | | | | | | | 4,81 | 4,87 | 4,93 | 4,99 | 5,05 | 5,11 | 5,17 | 5,23 | 5,29 | 5,35 | 5,41 | 5,47 | 5,53 | 5,59 | 5,65 | 5,71 | 5,76 | |
| 36 | | | | | | | | | | | 4,62 | 4,68 | 4,74 | 4,80 | 4,85 | 4,91 | 4,97 | 5,03 | 5,08 | 5,14 | 5,20 | 5,26 | 5,32 | 5,37 | 5,43 | 5,49 | 5,55 | | |
| 37 | | | | | | | | | | 4,44 | 4,50 | 4,55 | 4,61 | 4,67 | 4,72 | 4,78 | 4,83 | 4,89 | 4,95 | 5,00 | 5,06 | 5,12 | 5,17 | 5,23 | 5,28 | 5,34 | | | |
| 38 | | | | | | | | | 4,27 | 4,32 | 4,38 | 4,43 | 4,49 | 4,54 | 4,60 | 4,65 | 4,71 | 4,76 | 4,82 | 4,87 | 4,93 | 4,98 | 5,04 | 5,09 | 5,15 | | | | |
| 39 | | | | | | | | 4,11 | 4,16 | 4,21 | 4,27 | 4,32 | 4,37 | 4,43 | 4,48 | 4,53 | 4,59 | 4,64 | 4,69 | 4,75 | 4,80 | 4,85 | 4,91 | 4,96 | | | | | |
| 40 | | | | | | | 3,95 | 4,00 | 4,06 | 4,11 | 4,16 | 4,21 | 4,26 | 4,32 | 4,37 | 4,42 | 4,47 | 4,52 | 4,58 | 4,63 | 4,68 | 4,73 | 4,78 | | | | | | |
| 41 | | | | | | 3,80 | 3,86 | 3,91 | 3,96 | 4,01 | 4,06 | 4,11 | 4,16 | 4,21 | 4,26 | 4,31 | 4,36 | 4,41 | 4,46 | 4,52 | 4,57 | 4,62 | | | | | | | |
| 42 | | | | | 3,66 | 3,71 | 3,76 | 3,81 | 3,86 | 3,91 | 3,96 | 4,01 | 4,06 | 4,11 | 4,16 | 4,21 | 4,26 | 4,31 | 4,36 | 4,41 | 4,46 | | | | | | | | |
| 43 | | | | 3,53 | 3,58 | 3,63 | 3,68 | 3,72 | 3,77 | 3,82 | 3,87 | 3,92 | 3,97 | 4,01 | 4,06 | 4,11 | 4,16 | 4,21 | 4,26 | 4,31 | | | | | | | | | |
| 44 | | | 3,40 | 3,45 | 3,50 | 3,55 | 3,59 | 3,64 | 3,69 | 3,73 | 3,78 | 3,83 | 3,88 | 3,92 | 3,97 | 4,02 | 4,07 | 4,11 | 4,16 | | | | | | | | | | |
| 45 | | 3,28 | 3,33 | 3,37 | 3,42 | 3,47 | 3,51 | 3,56 | 3,61 | 3,65 | 3,70 | 3,74 | 3,79 | 3,84 | 3,88 | 3,93 | 3,98 | 4,02 | | | | | | | | | | | |
| 46 | 3,17 | 3,21 | 3,26 | 3,30 | 3,35 | 3,39 | 3,44 | 3,48 | 3,53 | 3,57 | 3,62 | 3,66 | 3,71 | 3,75 | 3,80 | 3,84 | 3,89 | | | | | | | | | | | | |
| 47 | 3,10 | 3,14 | 3,19 | 3,23 | 3,27 | 3,32 | 3,36 | 3,41 | 3,45 | 3,50 | 3,54 | 3,58 | 3,63 | 3,67 | 3,72 | 3,76 | | | | | | | | | | | | | |
| 48 | 3,03 | 3,08 | 3,12 | 3,16 | 3,21 | 3,25 | 3,29 | 3,34 | 3,38 | 3,42 | 3,47 | 3,51 | 3,55 | 3,60 | 3,64 | | | | | | | | | | | | | | |
| 49 | 2,97 | 3,01 | 3,06 | 3,10 | 3,14 | 3,18 | 3,23 | 3,27 | 3,31 | 3,35 | 3,40 | 3,44 | 3,48 | 3,52 | | | | | | | | | | | | | | | |
| 50 | 2,91 | 2,95 | 3,00 | 3,04 | 3,08 | 3,12 | 3,16 | 3,20 | 3,24 | 3,29 | 3,33 | 3,37 | 3,41 | | | | | | | | | | | | | | | | |

### 48 PITCH SPUR GEAR

| PINION SIZE | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14 | | | | | | | | | | | | | | | | | | | | | | | | 10,85 |
| 15 | | | | | | | | | | | | | | | | | | | | | | | 9,98 | 10,12 |
| 16 | | | | | | | | | | | | | | | | | | | | | | 9,23 | 9,36 | 9,49 |
| 17 | | | | | | | | | | | | | | | | | | | | | 8,56 | 8,69 | 8,81 | 8,93 |
| 18 | | | | | | | | | | | | | | | | | | | | 7,97 | 8,09 | 8,20 | 8,32 | 8,44 |
| 19 | | | | | | | | | | | | | | | | | | | 7,44 | 7,55 | 7,66 | 7,77 | 7,88 | 7,99 |
| 20 | | | | | | | | | | | | | | | | | | 6,97 | 7,07 | 7,18 | 7,28 | 7,38 | 7,49 | 7,59 |
| 21 | | | | | | | | | | | | | | | | | 6,54 | 6,64 | 6,74 | 6,83 | 6,93 | 7,03 | 7,13 | 7,23 |
| 22 | | | | | | | | | | | | | | | | 6,15 | 6,24 | 6,33 | 6,43 | 6,52 | 6,62 | 6,71 | 6,81 | 6,90 |
| 23 | | | | | | | | | | | | | | | 5,79 | 5,88 | 5,97 | 6,06 | 6,15 | 6,24 | 6,33 | 6,42 | 6,51 | 6,60 |
| 24 | | | | | | | | | | | | | | 5,46 | 5,55 | 5,63 | 5,72 | 5,81 | 5,89 | 5,98 | 6,07 | 6,15 | 6,24 | 6,33 |
| 25 | | | | | | | | | | | | | 5,16 | 5,24 | 5,32 | 5,41 | 5,49 | 5,57 | 5,66 | 5,74 | 5,82 | 5,91 | 5,99 | 6,07 |
| 26 | | | | | | | | | | | | 4,88 | 4,96 | 5,04 | 5,12 | 5,20 | 5,28 | 5,36 | 5,44 | 5,52 | 5,60 | 5,68 | 5,76 | |
| 27 | | | | | | | | | | | 4,62 | 4,70 | 4,78 | 4,85 | 4,93 | 5,01 | 5,08 | 5,16 | 5,24 | 5,32 | 5,39 | 5,47 | | |
| 28 | | | | | | | | | | 4,38 | 4,46 | 4,53 | 4,61 | 4,68 | 4,75 | 4,83 | 4,90 | 4,98 | 5,05 | 5,13 | 5,20 | | | |
| 29 | | | | | | | | | 4,16 | 4,23 | 4,30 | 4,38 | 4,45 | 4,52 | 4,59 | 4,66 | 4,73 | 4,81 | 4,88 | 4,95 | | | | |
| 30 | | | | | | | | 3,95 | 4,02 | 4,09 | 4,16 | 4,23 | 4,30 | 4,37 | 4,44 | 4,51 | 4,58 | 4,65 | 4,71 | | | | | |
| 31 | | | | | | | 3,76 | 3,82 | 3,89 | 3,96 | 4,03 | 4,09 | 4,16 | 4,23 | 4,29 | 4,36 | 4,43 | 4,50 | | | | | | |
| 32 | | | | | | 3,58 | 3,64 | 3,71 | 3,77 | 3,84 | 3,90 | 3,97 | 4,03 | 4,10 | 4,16 | 4,23 | 4,29 | | | | | | | |
| 33 | | | | | 3,40 | 3,47 | 3,53 | 3,59 | 3,66 | 3,72 | 3,78 | 3,84 | 3,91 | 3,97 | 4,03 | 4,10 | | | | | | | | |
| 34 | | | | 3,24 | 3,30 | 3,36 | 3,43 | 3,49 | 3,55 | 3,61 | 3,67 | 3,73 | 3,79 | 3,85 | 3,92 | | | | | | | | | |
| 35 | | | 3,09 | 3,15 | 3,21 | 3,27 | 3,33 | 3,39 | 3,45 | 3,51 | 3,57 | 3,63 | 3,68 | 3,74 | | | | | | | | | | |
| 36 | | 2,95 | 3,00 | 3,06 | 3,12 | 3,18 | 3,24 | 3,29 | 3,35 | 3,41 | 3,47 | 3,52 | 3,58 | | | | | | | | | | | |
| 37 | 2,81 | 2,87 | 2,92 | 2,98 | 3,04 | 3,09 | 3,15 | 3,20 | 3,26 | 3,32 | 3,37 | 3,43 | | | | | | | | | | | | |

AWESOMATIX® **A700 L & EX** — **SETUP SHEET**

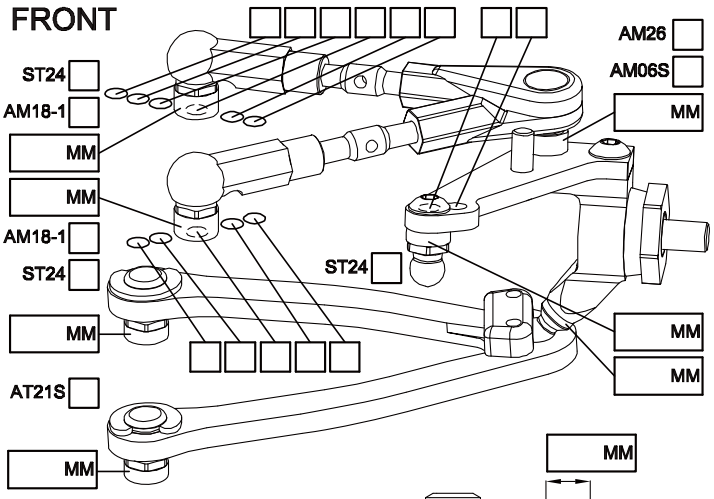
NAME | DATE | TEMP.°C AIR / TRACK /

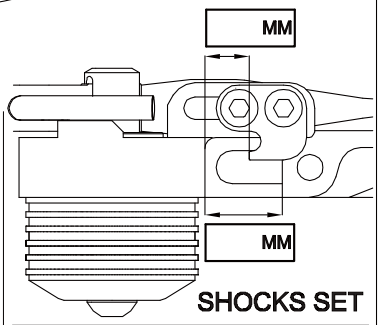
COUNTRY | CARPET ☐ ASPHALT ☐

RACE | TRACK CONDITION TECHNICAL ☐ MIXED ☐ FAST ☐

TRACK | TRACTION LOW ☐ MEDIUM ☐ HIGH ☐

## FRONT




SHOCKS SET

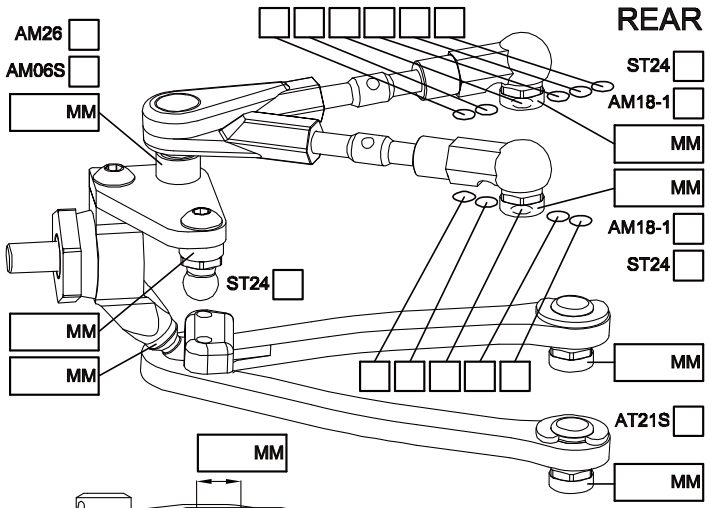
| | | | | |
|---|---|---|---|---|
| CAMBER ANGLE / ° | | | | |
| CASTER ANGLE / ° | | | | |
| TOE ANGLE / ° | | | | |
| RIDE HEIGHT / MM | | | | |
| DOWNSTOP / MM | | | | |
| UPSTOP / MM | | | | |
| STABILIZER Ø / MM | | | | |
| LOW ARM STD ☐ | ☐ | SPRING STD ☐ | S ☐ | |
| STEERING ARM STD ☐ | ☐ | DAMPER #6 ☐ | #3 ☐ | |
| WHEEL SPACER / MM | | ACTION SYM. ☐ | ASYM. ☐ | |
| | | SRS/RHS ARR. I ☐ | II ☐ | |

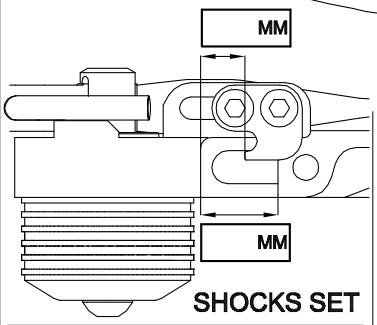
FRONT DRIVE BALL DIFF ☐ GEAR DIFF ☐ SPOOL ☐ ONE-WAY ☐

DIFF SET LOOSE ☐ MEDIUM ☐ TIGHT ☐ OIL ☐ #

DOGBONE DRIVE BUSHING ☐ C-DRIVE ☐ BB ☐ EVD ☐

## REAR



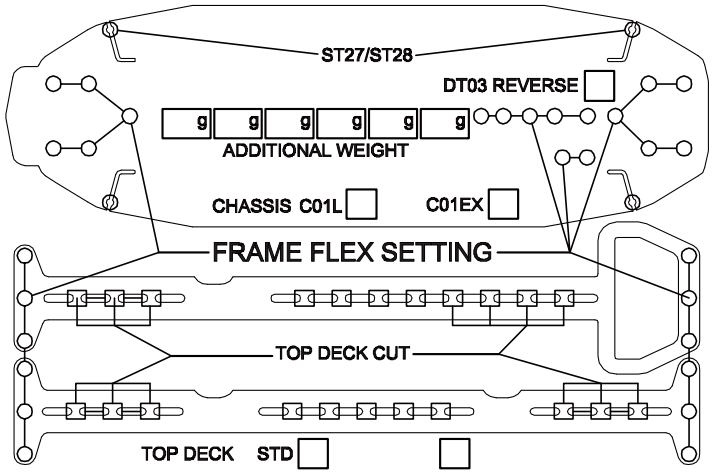

SHOCKS SET

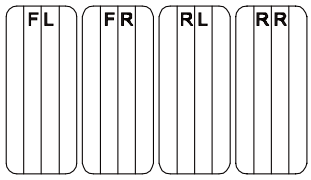
| | | | | |
|---|---|---|---|---|
| CAMBER ANGLE / ° | | | | |
| CASTER ANGLE / ° | | | | |
| TOE ANGLE / ° | | | | |
| RIDE HEIGHT / MM | | | | |
| DOWNSTOP / MM | | | | |
| UPSTOP / MM | | | | |
| STABILIZER Ø / MM | | | | |
| SPRING STD ☐ | S ☐ | LOW ARM STD ☐ | ☐ | |
| DAMPER #6 ☐ | #3 ☐ | STEERING ARM STD ☐ | ☐ | |
| ACTION SYM. ☐ | ASYM. ☐ | WHEEL SPACER / MM | | |
| SRS/RHS ARR. I ☐ | II ☐ | | | |

REAR DRIVE BALL DIFF ☐ GEAR DIFF ☐

DIFF SET LOOSE ☐ MEDIUM ☐ TIGHT ☐ OIL ☐ #

DOGBONE DRIVE BUSHING ☐ C-DRIVE ☐ BB ☐ EVD ☐

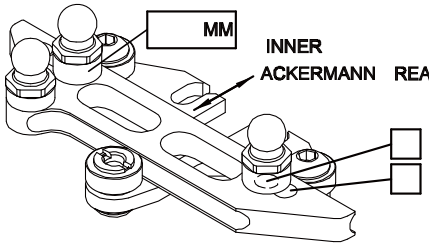



| TIRES | FRONT | REAR |
|---|---|---|
| BRAND | | |
| INSERTS | | |
| WHEELS | | |
| ADDITIVE | | |

| | | | |
|---|---|---|---|
| MOTOR LAYOUT | LONG. ☐ | TRANS. ☐ | MOTOR |
| SERVO LAYOUT | LEFT ☐ | RIGHT ☐ | SERVO |
| ESC LAYOUT | LEFT ☐ | RIGHT ☐ | ESC |
| BAT. LAYOUT | R1 ☐ R2 ☐ | F1 ☐ F2 ☐ | BATTERY |
| SPUR | PINION | | RECEIVER |
| FINAL DRIVE RATIO | | | MOTOR OFFSET / MM |
| BODY | | | WING |

## STEERING POST




REARWARD ☐ FORWARD ☐

AM24 OFFSET ☐

AM24 CENTERED ☐

ST24 ☐

BEST LAPTIME | QUALIF. / FINAL POSITION /

ESC SETTING

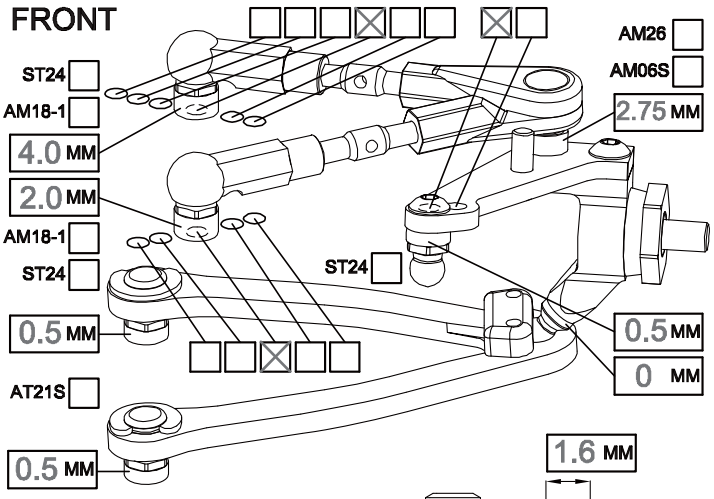
COMMENTS / IMPRESSIONS

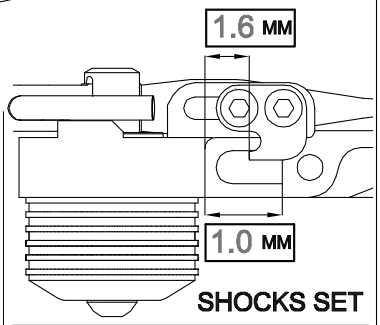
CONTACT

AWESOMATIX® **A700 L & EX** — **SETUP SHEET**

| | | | |
|---|---|---|---|
| NAME | STANDARD INITIAL SETUP | DATE | TEMP.°C AIR / TRACK / |
| COUNTRY | | | CARPET ☒ ASPHALT ☐ |
| RACE | | TRACK CONDITION | TECHNICAL ☐ MIXED ☒ FAST ☐ |
| TRACK | | TRACTION | LOW ☐ MEDIUM ☒ HIGH ☐ |

## FRONT




SHOCKS SET

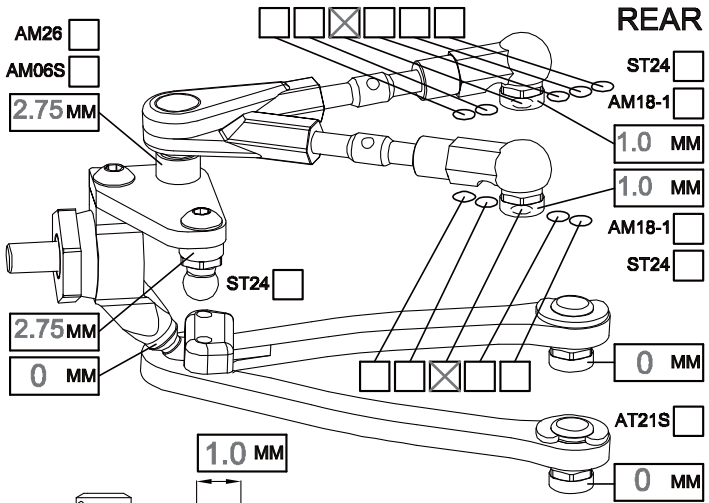
| | | | | |
|---|---|---|---|---|
| CAMBER ANGLE / ° | 1.5 | | | |
| CASTER ANGLE / ° | 4.0 | | | |
| TOE ANGLE / ° | 0.5 out | | | |
| RIDE HEIGHT / MM | 5.0 | | | |
| DOWNSTOP / MM | 5.5 | | | |
| UPSTOP / MM | | | | |
| STABILIZER Ø / MM | 0 | SPRING | STD ☐ | S ☒ |
| LOW ARM | STD ☒ ☐ | DAMPER | # 6 ☒ | # 3 ☐ |
| STEERING ARM | STD ☒ ☐ | ACTION | SYM. ☒ | ASYM. ☐ |
| WHEEL SPACER / MM | 0 | SRS/RHS ARR. | I ☒ | II ☐ |

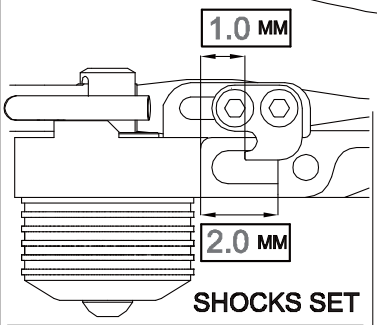
FRONT DRIVE BALL DIFF ☐ GEAR DIFF ☐ SPOOL ☒ ONE-WAY ☐

DIFF SET LOOSE ☐ MEDIUM ☐ TIGHT ☐ OIL ☐ #

DOGBONE DRIVE BUSHING ☒ C-DRIVE ☐ BB ☐ EVD ☒

## REAR



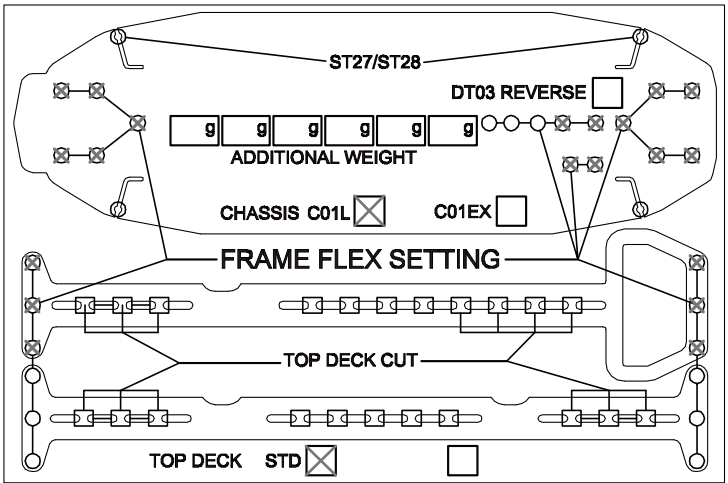

SHOCKS SET

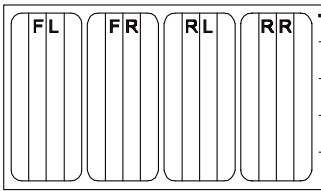
| | | | | |
|---|---|---|---|---|
| CAMBER ANGLE / ° | 1.5 | | | |
| CASTER ANGLE / ° | -4.0 | | | |
| TOE ANGLE / ° | 3.0 | | | |
| RIDE HEIGHT / MM | 5.4 | | | |
| DOWNSTOP / MM | 5.0 | | | |
| UPSTOP / MM | | | | |
| STABILIZER Ø / MM | 0 | SPRING | STD ☐ | S ☒ |
| LOW ARM | STD ☒ ☐ | DAMPER | # 6 ☒ | # 3 ☐ |
| STEERING ARM | STD ☒ ☐ | ACTION | SYM. ☒ | ASYM. ☐ |
| WHEEL SPACER / MM | 0 | SRS/RHS ARR. | I ☒ | II ☐ |

REAR DRIVE BALL DIFF ☐ GEAR DIFF ☒

DIFF SET LOOSE ☐ MEDIUM ☐ TIGHT ☐ OIL ☒ # 2000

DOGBONE DRIVE BUSHING ☒ C-DRIVE ☐ BB ☐ EVD ☐

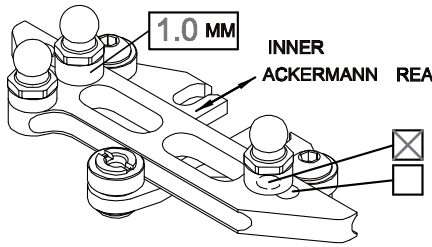



| TIRES | FRONT | REAR |
|---|---|---|
| BRAND | | |
| INSERTS | | |
| WHEELS | | |
| ADDITIVE | | |

| | | | | | |
|---|---|---|---|---|---|
| MOTOR LAYOUT | LONG. ☒ | TRANS. ☐ | | MOTOR | |
| SERVO LAYOUT | LEFT ☒ | RIGHT ☐ | | SERVO | LOW PROF. |
| ESC LAYOUT | LEFT ☒ | RIGHT ☐ | | ESC | |
| BAT. LAYOUT | R1 ☒ | R2 ☐ | F1 ☐ F2 ☐ | BATTERY | |
| SPUR | | PINION | | RECEIVER | |
| FINAL DRIVE RATIO | | | | MOTOR OFFSET / MM | |
| BODY | | | | WING | |

## STEERING POST




REARWARD ☐ FORWARD ☒

AM24 OFFSET ☐

AM24 CENTERED ☐

ST24 ☐

| | |
|---|---|
| BEST LAPTIME | QUALIF. / FINAL POSITION / |
| ESC SETTING | |
| COMMENTS / IMPRESSIONS | |
| | |
| | |
| CONTACT | |

## Standard Spare Parts

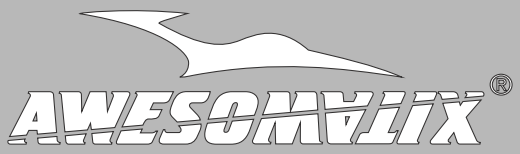
| Parts# | Description |
|---|---|
| AM01-1 | Gear Box |
| AM02 | Rear Bar |
| AM03-1 | Motor Mount L |
| AM04 | Motor Mount T |
| AM05-1 | Rear Holder |
| AM06 | Steering Block |
| AM07R-1 | Servo Holder Right |
| AM07L-1 | Servo Holder Left |
| AM08-1 | Shocks Holder |
| AM09 | Steering Rod |
| AM10-1 | Steering Plate |
| AM11 | Tower |
| AM13 | Spur Holder |
| AM14-1 | Steering Arm |
| AM15-1 | Battery Nut |
| AM17L | Damper Holder Left |
| AM17R | Damper Holder Right |
| AM23 | Rear Steering Arm |
| AT03 | Spool Axle |
| AT04 | Main Shaft |
| AT06 | Antenna Holder |
| AT12 | Spur Nut |
| AT13 | Wheel Hex |
| AT14 | Turnbuckle |
| AT15 | Bearing Spacer |
| AT20 | Spur Axle |
| AT21 | Pivot Ball |
| AT23 | GD Case1 |
| AT24 | GD Case2 |
| AT25 | Turnbuckle Long |
| DT02 | Bearing Housing |
| DT03 | Motor Mount Collar |
| ST01 | Front Axle |
| ST02 | Rear Axle |
| ST03 | Ball Stud |
| ST05 | Shock Rod |
| ST06 | Gear Axle |
| ST07 | Outdrive |
| ST08 | Steering Nut |
| ST09 | Upper Collar |
| ST10 | 2mm Pin |
| ST11 | Bushing R |
| ST13 | Front Universal Bone |
| ST14 | Rear Universal Bone |
| ST16 | U-Joint Cross |
| ST17 | Universal Ring |
| ST20 | GD Shaft |
| ST21 | Servo Rod |
| P01 | Ball Joint1 |
| P02 | Ball Joint2 |
| P03 | Arm Ball Cap |
| P04 | Arm Hasp |
| P05 | Sway Bar Joint |
| P06 | Downstop Collar |
| P07 | Arm Clip |
| P09 | Shock Screw Holder |
| P10 | Diff Cover |
| P11 | Gear Tube |
| P12 | Sway Bar Holder |
| P13 | Ball Ends Set |
| P14 | Bumper Set |
| P15 | Foam Bumper |
| P16 | Lock Ring |
| P17 | Plastic Cross |
| P22 | Diff Clamping Bar |
| P23 | Outer Battery Holder |
| P24 | Inner Battery Holder |
| P25 | Battery Clamp |
| P26 | Damper Shim |

| Parts# | Description |
|---|---|
| DG1 | Damper Gauge |
| C01L | Lower Deck L |
| C01EX | Lower Deck EX |
| C02-1 | Top Deck L |
| C03-1 | Top Deck T |
| C04 | Suspension Arm |
| SWB10 | Sway Bar 1.0mm |
| SWB11 | Sway Bar 1.1mm |
| SWB12 | Sway Bar 1.2mm |
| SWB13 | Sway Bar 1.3mm |
| DL6 | STD Damper Left 6 |
| DR6 | STD Damper Right 6 |
| SPR01S | Shock Spring Soft |
| SPR02 | Shock Rod Guide |
| SPR03 | Shock Pointer |
| SPR05 | Body Clip |
| SPR06 | Wire Ring |
| SPR07 | E-Ring |
| G01 | 22T Bevel Gear |
| G02 | 27T Bevel Gear |
| G03 | 25T Bevel Gear |
| G05 | 20T Plastic Gear |
| G06 | 10T Plastic Gear |
| B106RS | MR106RS Bearing |
| B85 | MR85 Bearing |
| B84RS | MR84RS Bearing |
| BF85RS | MF85RS Bearing |
| B74RS | MR74RS Bearing |
| PIN01 | 1.5x7.8 Pin |
| PIN02 | 1.5x5.8 Pin |
| OR03 | 11mm O-Ring |
| OR05 | GD O-Ring |
| OR06 | 5mm O-Ring |
| SH0.1 | 6x8x0.1mm Shim |
| SH0.5 | 6x3x0.5mm Spacer (Silver) |
| SH1.0 | 6x3x1.0mm Spacer (Gray) |
| SH1.75 | 6x3x1.75mm Spacer (Black) |
| SRS | Spring Rating Screw |
| RHS-1 | Ride Height Screw |
| SS3X3 | M3x3 Set Screw |
| SS3X4 | M3x4 Set Screw |
| SS3X5 | M3x5 Set Screw |
| SS3X8 | M3x8 Set Screw |
| SS3X12 | M3x12 Set Screw |
| SS3X14 | M3x14 Set Screw |
| SC2X4 | M2x4 Cap Head Screw |
| SC2X6 | M2x6 Cap Head Screw |
| SB25X8 | M2.5x8 Button Head Screw |
| SB25X10 | M2.5x10 Button Head Screw |
| SB3X5 | M3x5 Button Head Screw |
| SB3X6 | M3x6 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 |
| INS-EXL | A700EX & A700L Instruction Manual |
| STS | A700 Stickers Sheet |

## Optional Parts

| Parts# | Description |
|---|---|
| AM06S | Steering Block Short |
| AM12 | Battery Holder |
| AM16 | Servo Saver Arm |
| AM18-1 | Front Holder |
| AM19 | Upper Arm Holder |
| AM24 | Central Servo Holder |
| AM26 | Rear Ball Holder |
| AT21S | Pivot Ball Short |
| AT22 | Rear Body Holder |
| AT28 | GD Gear Axle |
| C05 | Rear Steering Arm |
| C07 | Carbon Bumper |
| GD1 | Gear Diff Set |
| ST12 | Bushing S |
| ST21S | Servo Rod Short |
| ST23 | GD Outdrive |
| ST24 | 4.8mm Ball Stud |
| ST26 | GD Gear Output Axle |
| ST27 | Chassis Stiffener |
| ST28 | Chassis Stiffener Screw |
| BD1 | Ball Diff Set |
| AT01 | DiffCase1 |
| AT02 | Diff Case2 |
| ST04 | Diff Nut |
| ST15 | Diff Ring |
| ST18 | Diff Axle1 |
| ST19 | Diff Axle2 |
| DT01 | Diff Cage |
| DT06 | Diff Stop |
| TB38M | F3-8M Thrust Bearing |
| B2.4 | 2.4mm Ball |
| SPR04 | Diff Spring |
| OR02 | BD O-Ring |
| OR04 | 14mm O-Ring |
| OW1 | One-Way Axle Set |
| AT05 | OW Housing |
| ST22 | OW Outdrive |
| BF1015RS | F6700RS Bearing |
| P08 | C-Drive |
| P20 | Front Universals Ring |
| G05ST | 20T Steel Gear |
| G06ST | 10T Steel Gear |
| SPR01 | STD Shock Spring |
| DL3 | STD Damper Left 3 |
| DR3 | STD Damper Right 3 |
| OR05S | GD O-Ring Soft |
| FA | First Aid Set |
| UB1 | Universals Bearings Set |
| ST10-1.5 | 1.5/2mm Pin |
| B415 | 4x1.5mm Ball Bearing |
| BC1 | Battery Clamps Set |
| AT26 | Battery Post |
| P21S | Battery Pad |

## MEMO




***WWW.AWESOMATIX.COM***

***AWESOMATIX INNOVATIONS LLP***
***PARTNERSHIP No. OC353017***
***RUSSIA - UNITED KINGDOM***

***Email: support@awesomatix.com***