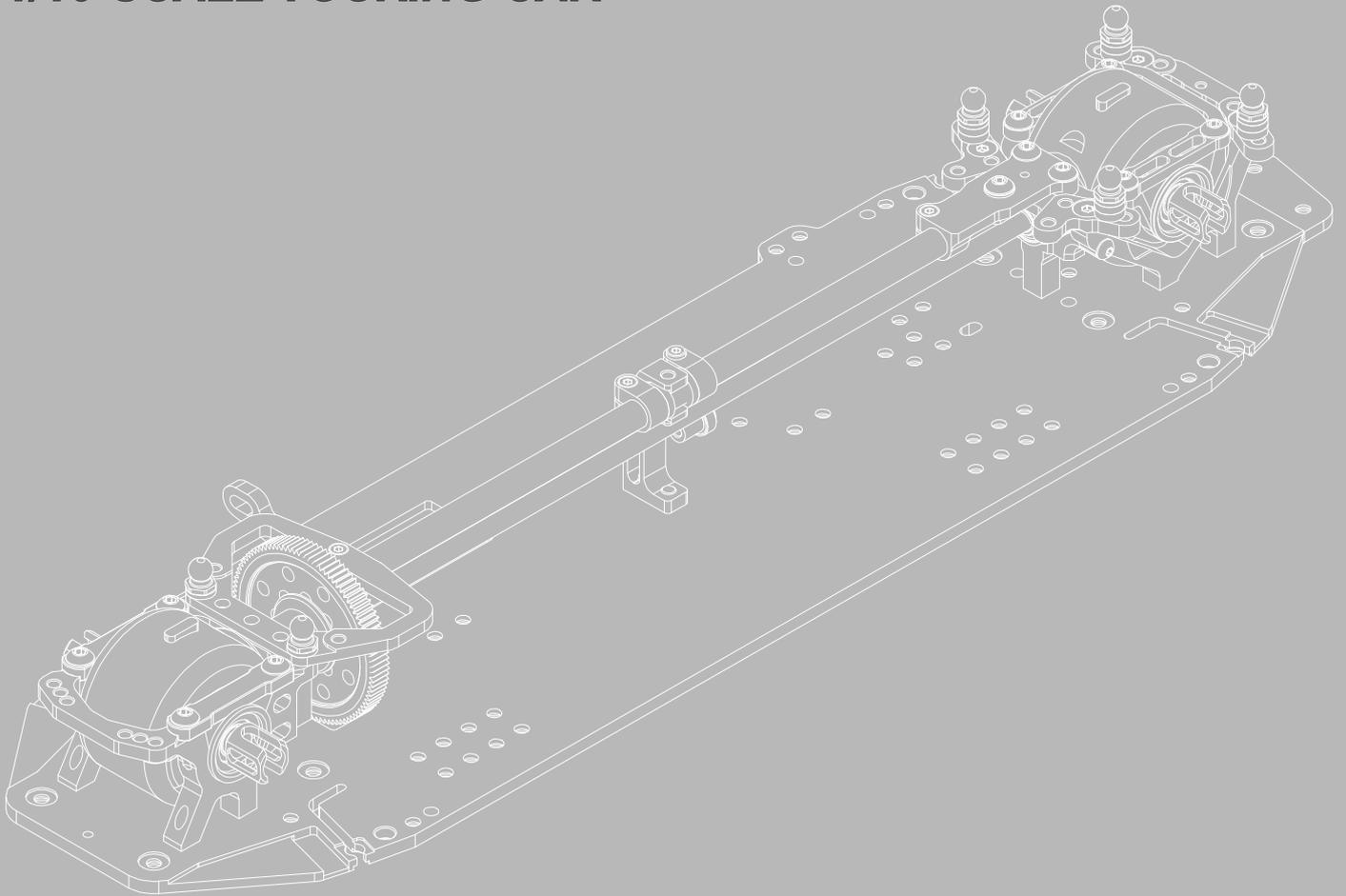


FloatingFrontGearbox

version 1.1 for

A700 Evo

1/10-SCALE TOURING CAR



INSTRUCTION MANUAL

ATTENTION !

Awesomatix **FFG** (Floating Front Gearbox) set is used on our **A700 Evo** car and can be installed also on our A700, A700L, A700EX, A700EXL cars.

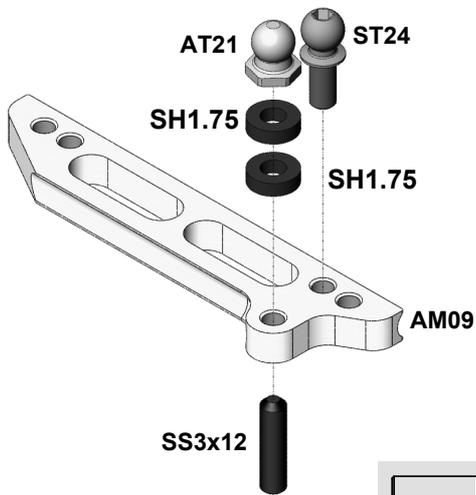
Please use this Instruction Manual book together with A700EX/A700L Instruction Manual book at the assembling of your new **A700 Evo** car or at installation of **FFG** set on your A700 / A700L / A700EX / A700EXL car.

Please study both books carefully before the assembling of your car and note all building steps that differ for **A700 Evo / FFG** set.

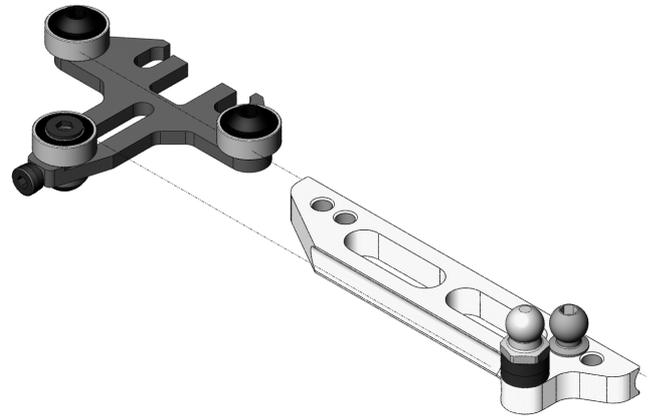
Please use the A700EX/ A700L book as the primary Manual and follow the building steps of this **FFG** book only in case of these particular steps differ from the steps of the A700EX/A700L book.

Please note also that **FFG** set can be installed on A700 and A700EX cars only at the “Longitudinal motor layout”.

STEP 11

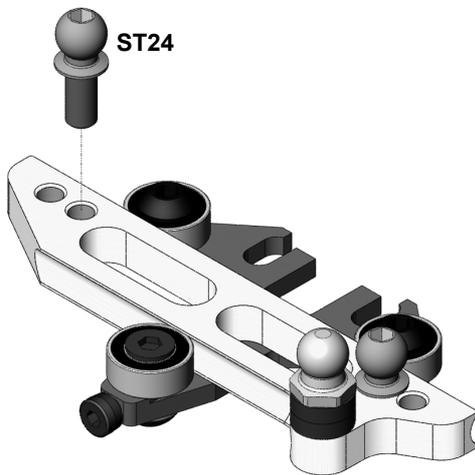


STEP 13

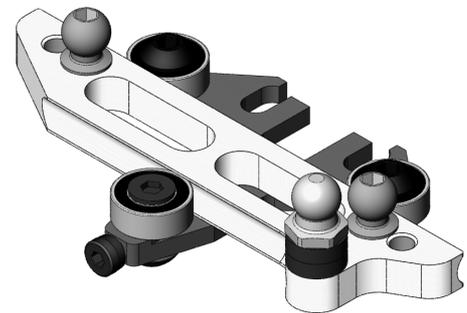


	SS3X12 M3x12 Set Screw	x1	AT21 Pivot Ball	x1
	SH1.75 6x3x1.75mm Spacer (Black)	x2	AM09 Steering Rod	x1
			ST24 4.8mm Ball Stud	x2

STEP 13 (cont'd)

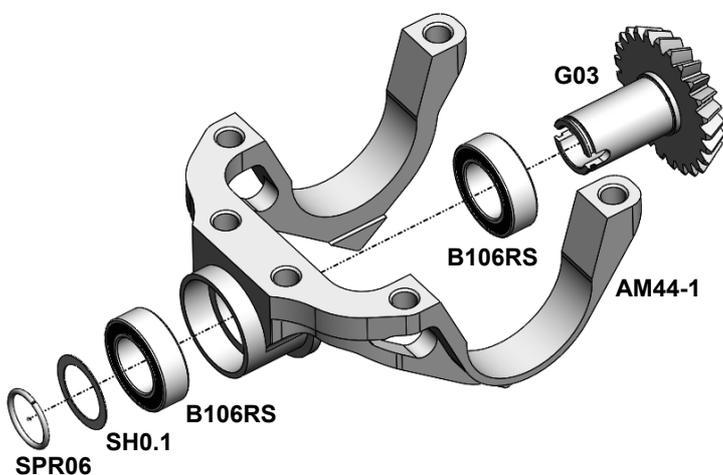


STEP 13 FINISHED



STEP 14

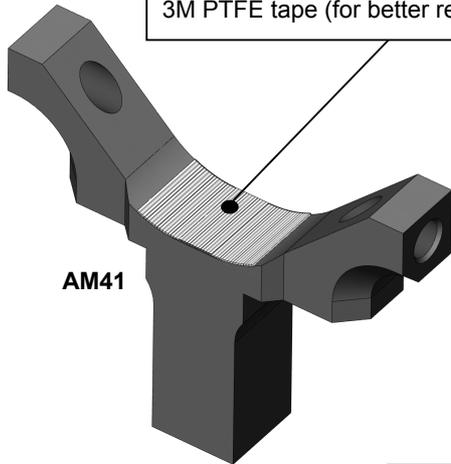
	B106RS MR106RS Bearing	x2	AM44-1 FFG Gear Box	x1
	SH0.1 6x8x0.1mm Shim	x1	G03 25T Bevel Gear	x1
			SPR06 Wire Ring	x1



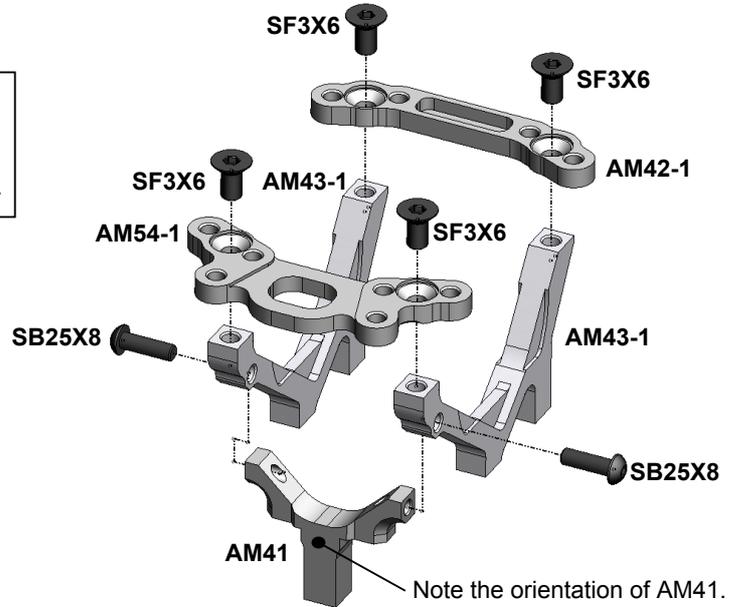
Snap **SPR06** Wire Ring on **G03** Bevel Gear

STEP 14

Install a small piece of low friction tape on the curved surface of AM41 part.
3M 810 Magic Tape or
3M PTFE tape (for better results) are suitable.

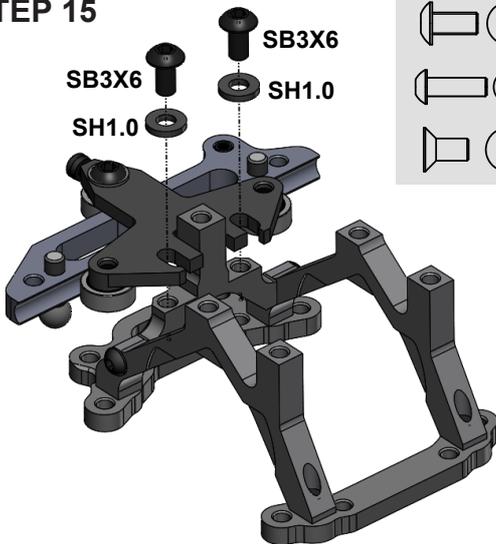


AM41



Note the orientation of AM41.

STEP 15



- SH1.0 6x3x1.0mm Spacer (Gray) x2
- SB3X6 M3x6 Button Head Screw x6
- SB25X8 M2.5 Button Head Screw x2
- SF3X6 M3x6 Flat Head Screw x9

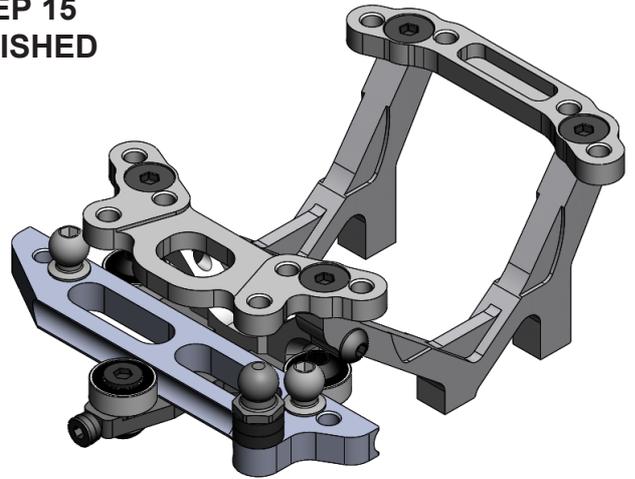
AM41 FFG Gear Box Sup. x1

AM42-1 FFG Link Holder F. x1

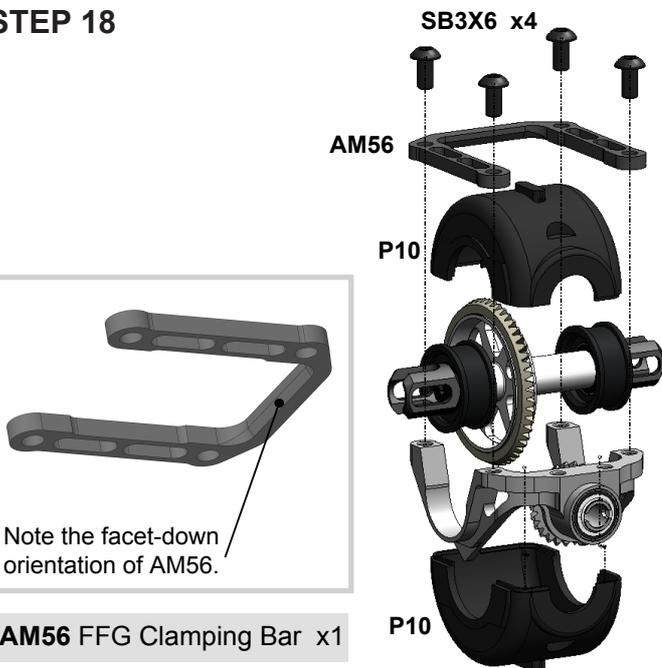
AM43-1 FFG Bulkhead x2

AM54-1 FFG Link Holder R. x1

STEP 15 FINISHED



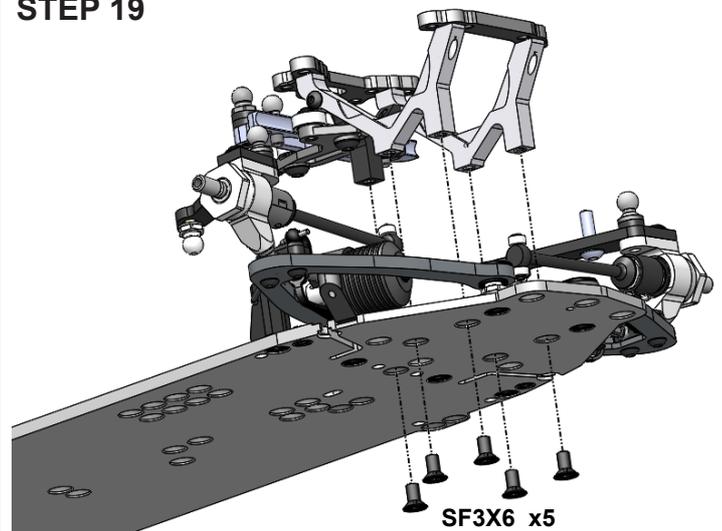
STEP 18



Note the facet-down orientation of AM56.

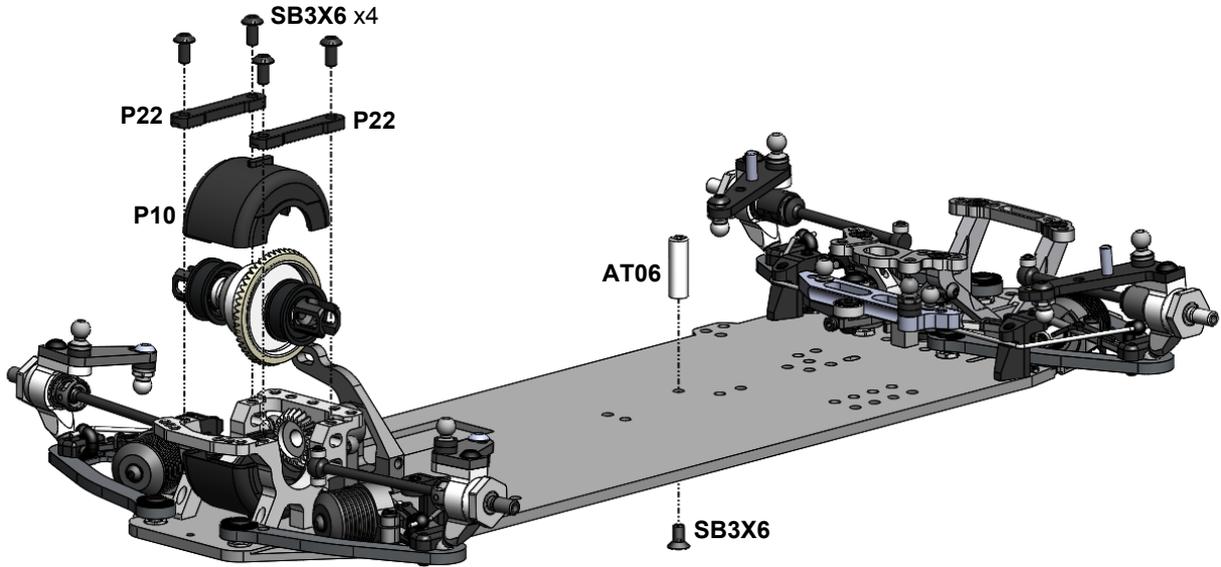
AM56 FFG Clamping Bar x1

STEP 19



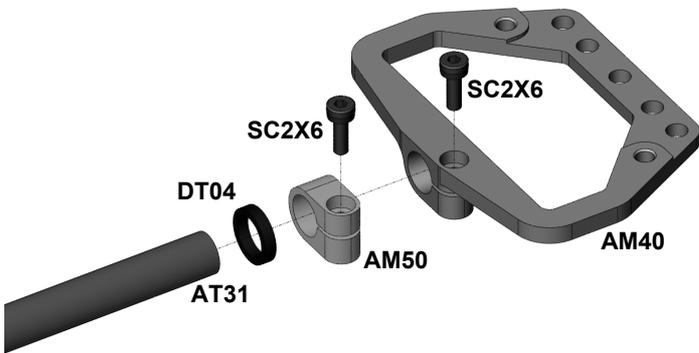
SF3X6 x5

STEP 37



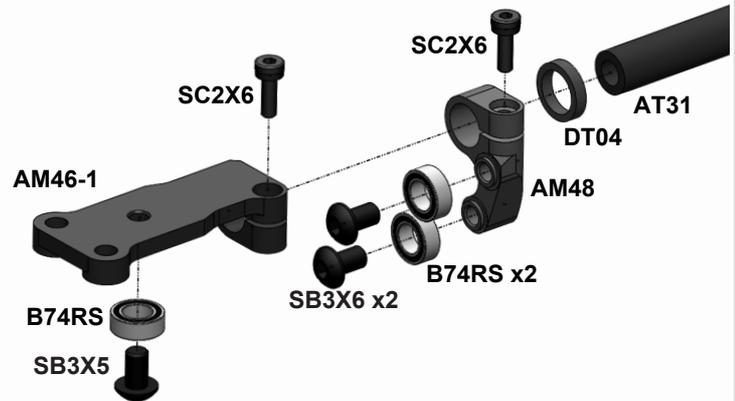
		SB3X6 M3x6 Button Head Screw	x7	P22 Diff Clamping Bar	x2
		SF3X6 M3x6 Flat Head Screw	x1	AT06 Antenna Holder	x1
		SB3X5 M3x5 Button Head Screw	x1	AM40 FFG Rear Plate	x1
		SC2X6 M2x6 Cap Head Screw	x4	AM46-1 FFG Front Plate	x1
		B74RS MR74RS Bearing	x3	AM48 FFG Shaft Support	x1
				AM50 FFG Rear Stopper	x1
				AT31 FFG Alloy Rod	x1
				DT04 FFG Collar	x2

STEP 38



Use a sandpaper for ~5mm on the tips of C31 rod to increase the friction on AM40 and AM46 parts.
Make sure you don't remove too much material.
Only a slightly scratched surface.

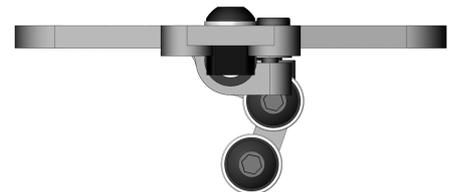
STEP 38 (cont'd)



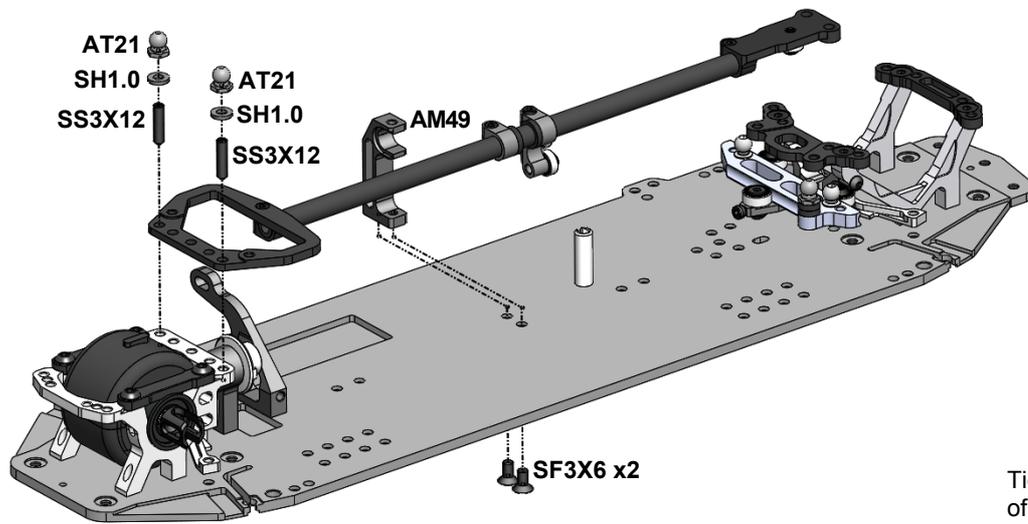
STEP 38 FINISHED



The top surfaces of AM46 and AM40 plates should be parallel. Align them on the flat board before SC2X6 screws tightening.

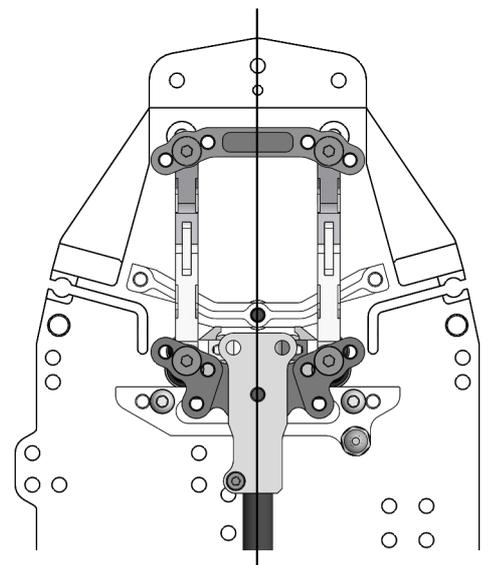


STEP 39

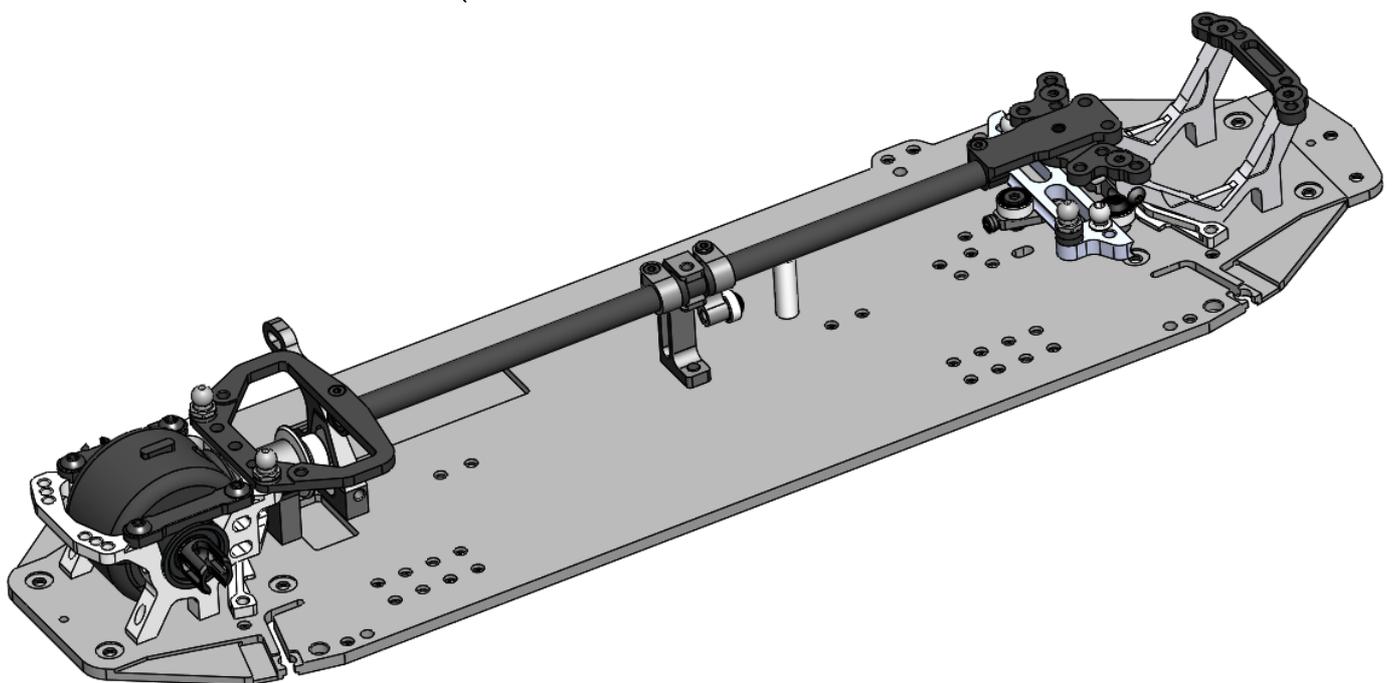


Tighten AT21 Pivot Balls after aligning of the FFG rod axis and the chassis axis.

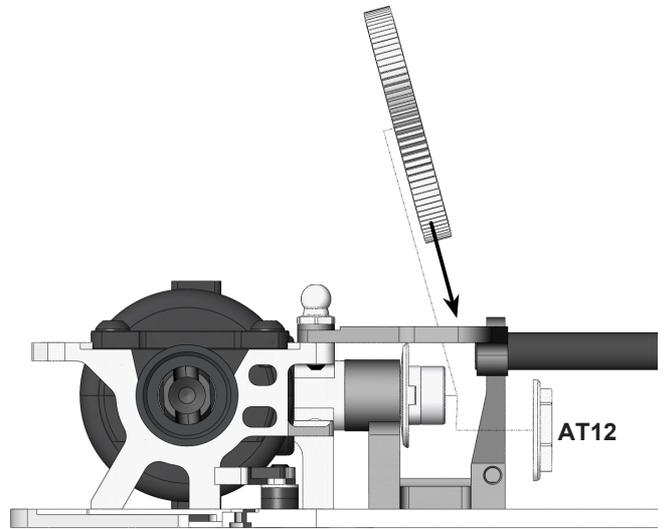
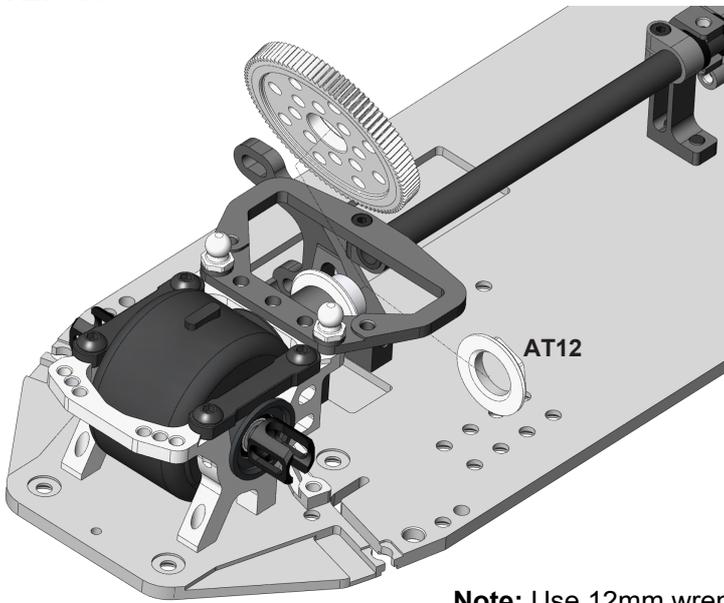
	SF3X6 M3x6 Flat Head Screw	x2
	SS3X12 M3x12 Set Screw	x2
	SH1.0 6x3x1.0 Spacer (Gray)	x4
	AT21 Pivot Ball	x2
	AM49 FFG Tower	x1



STEP 39 FINISHED



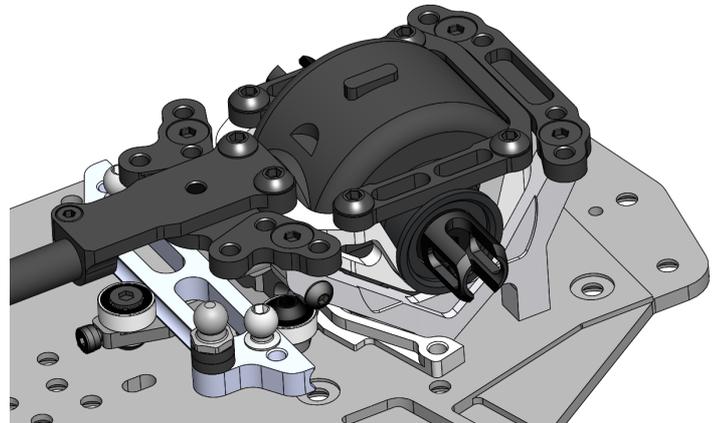
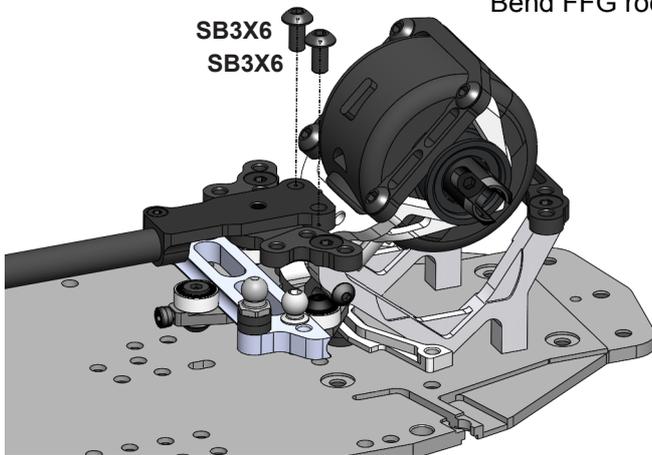
STEP 40



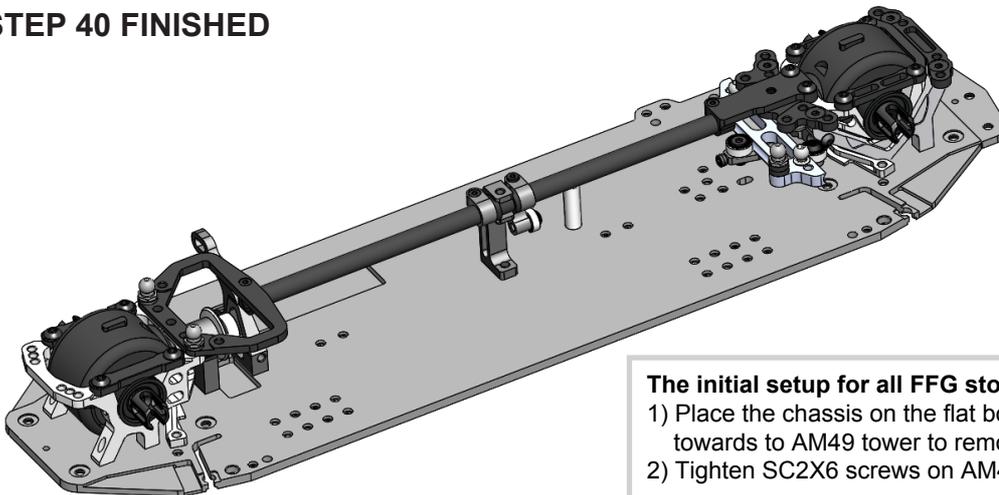
Note: Use 12mm wrench for **AT12** nut tightening.
Spur gears (not included): up to 98T/64p (73T/48p) and 4.6mm max. thickness.

STEP 40 (cont'd)

Bend FFG rod front end upward a little when inserting the front gearbox.



STEP 40 FINISHED



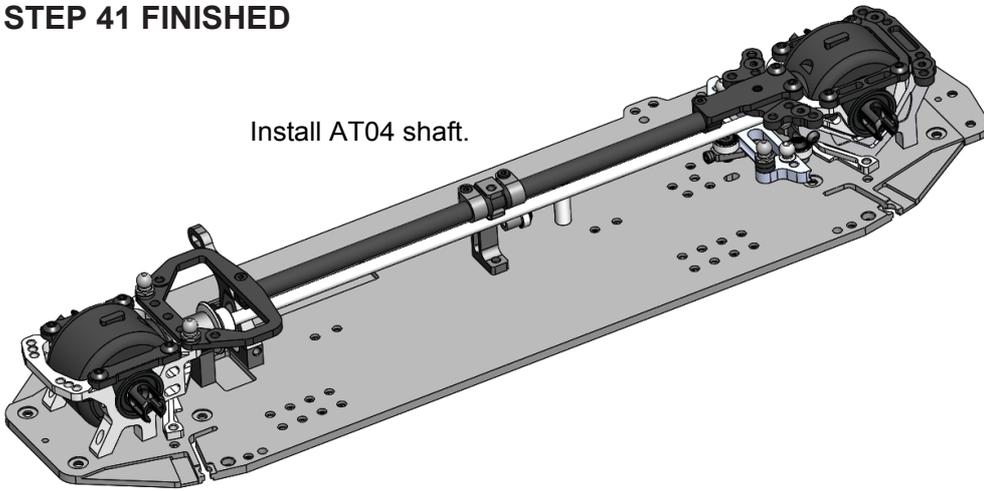
The initial setup for all FFG stoppers:

- 1) Place the chassis on the flat board and slide AM50/DT04 and AM48/DT04 towards to AM49 tower to remove the gaps between these parts.
- 2) Tighten SC2X6 screws on AM48 and AM50.

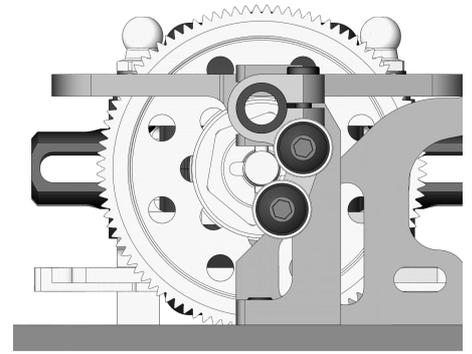


STEP 41 FINISHED

Install AT04 shaft.

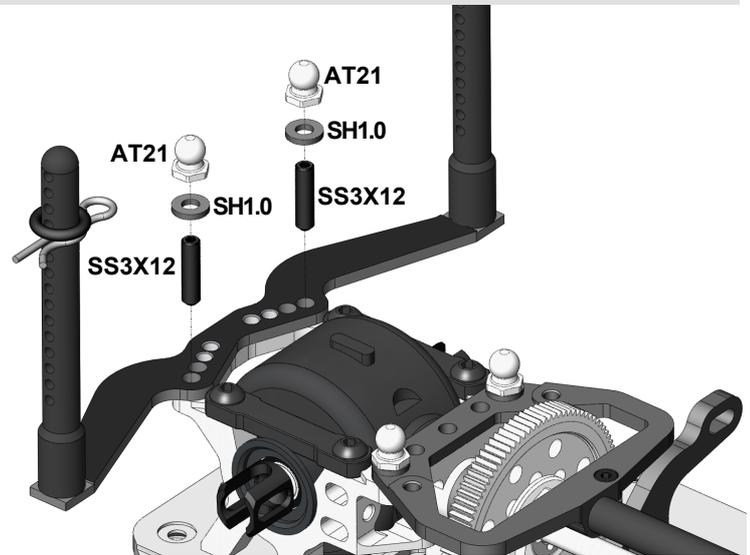
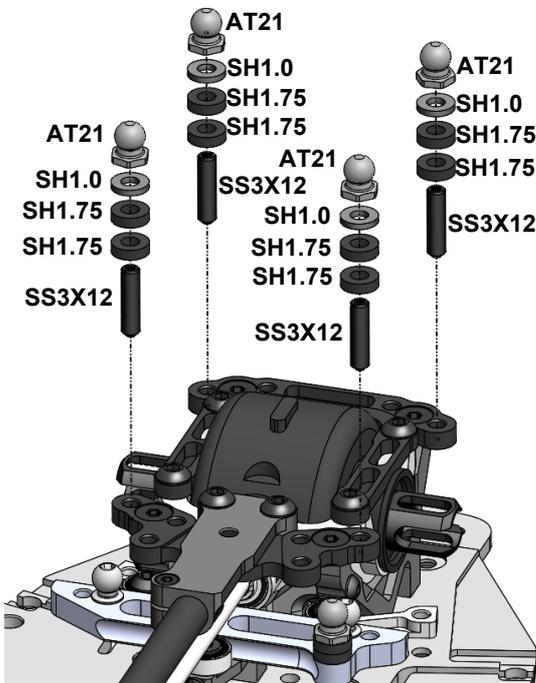


Check and adjust AM48 installation. B74RS bearings have to touch AT04 but not deflect it too much.



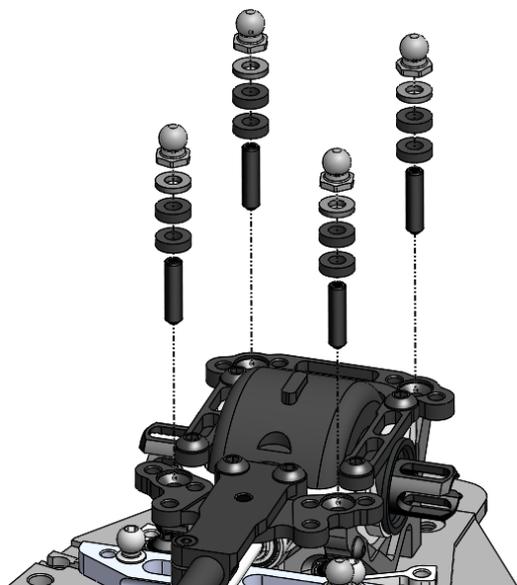
STEP 46

- SS3X12 M3x12 Set Screw x6 AT21 Pivot Ball x6
- SH1.0 6x3x1mm Spacer (Gray) x6
- SH1.75 6x3x1.75mm Spacer (Black) x8

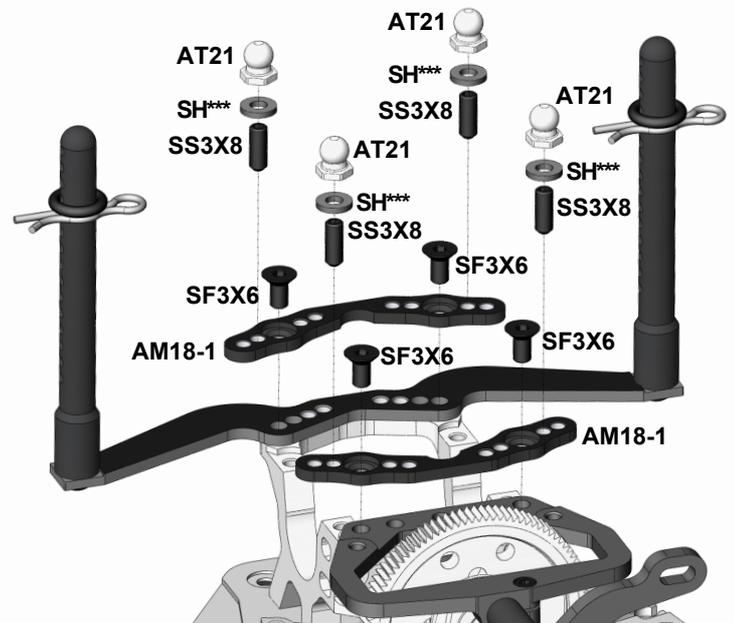


STEP 46

One of the alternative positions for the front top balls.

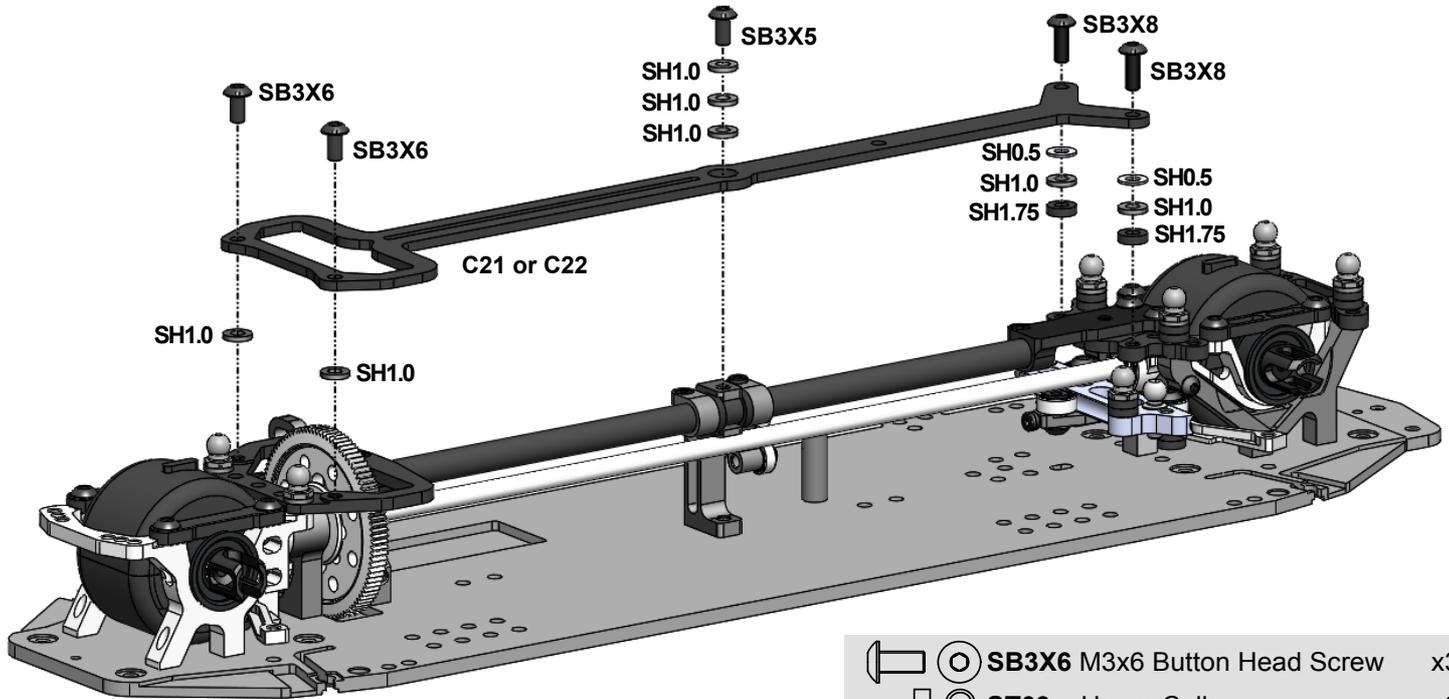


AM18-1 (optional)



STEP 47 (optional)

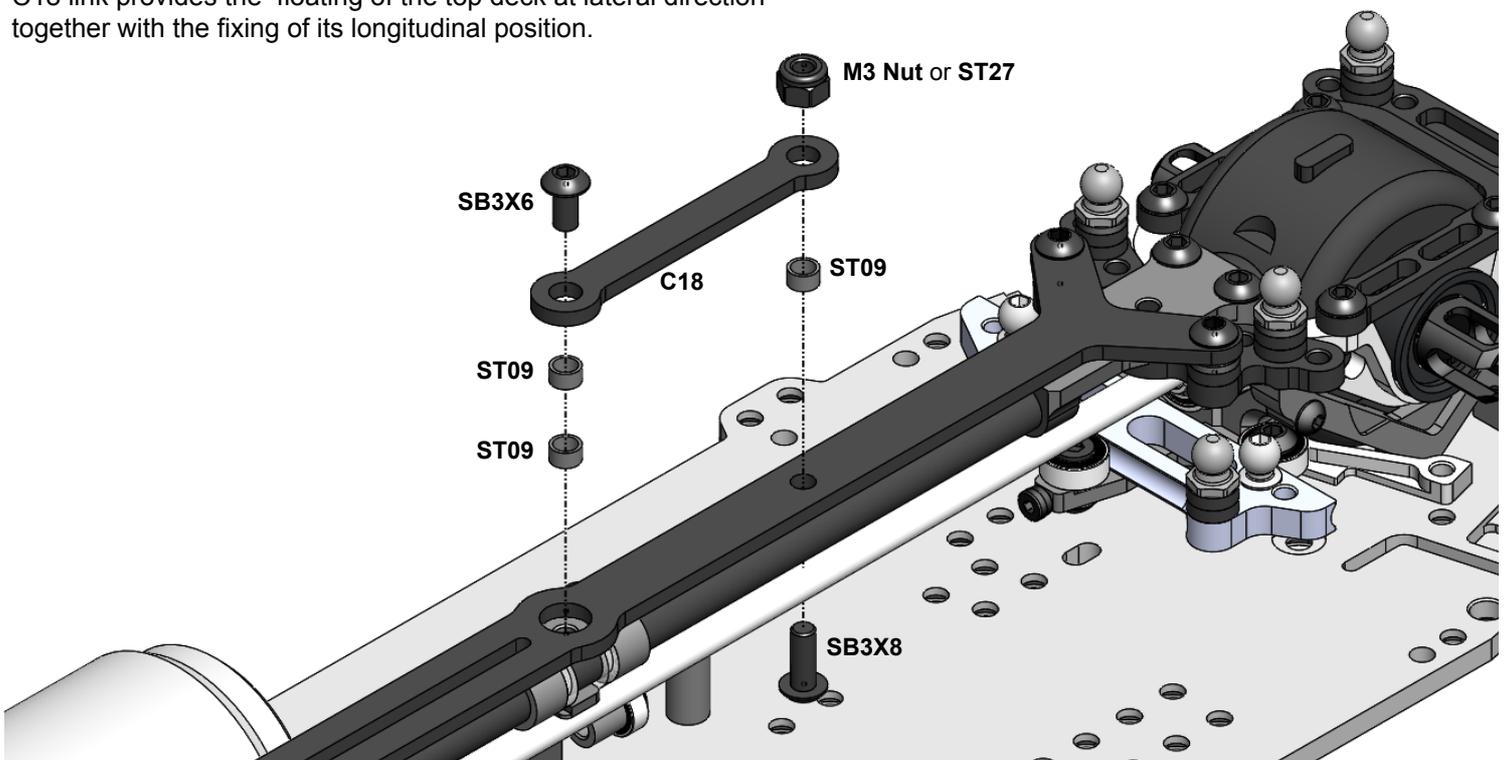
Tighten up **SB3X6** and **SB3X8** screws while pressing the chassis on a flat board.



		SB3X6 M3x6 Button Head Screw	x3
		ST09 Upper Collar	x3
		SB3X8 M3x8 Button Head Screw	x2
		SB3X5 M3x5 Button Head Screw	x2
		SH0.5 6x3x0.5mm Spacer (Silver)	x2
		SH1.0 6x3x1.0mm Spacer (Gray)	x7
		SH1.75 6x3x1.75mm Spacer (Black)	x2
		C21 FFG Top Deck Narrow	x1
		or C22 FFG Top Deck Wide	x1
		C18 FFG Top Deck Link	x1

STEP 47 (optional, cont'd)

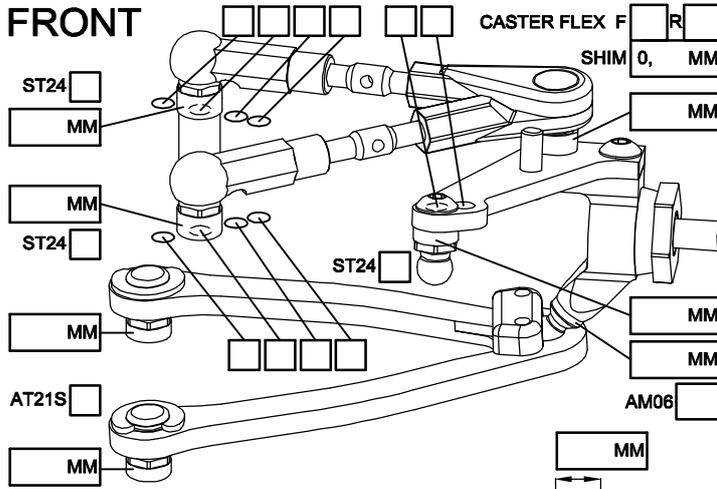
The alternative configuration of the carbon top deck installation with C18 link using. C18 link provides the floating of the top deck at lateral direction together with the fixing of its longitudinal position.



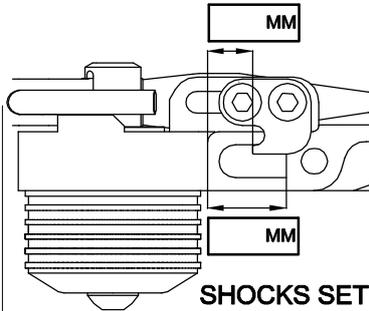
NAME _____
 COUNTRY _____
 RACE _____
 TRACK _____

DATE _____ TEMP. °C AIR / TRACK _____ /
 TRACK CONDITION TECHNICAL MIXED FAST
 TRACTION LOW MEDIUM HIGH

FRONT

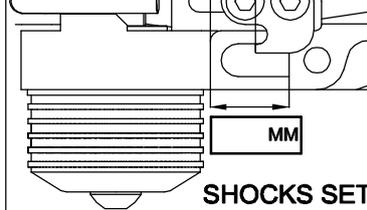
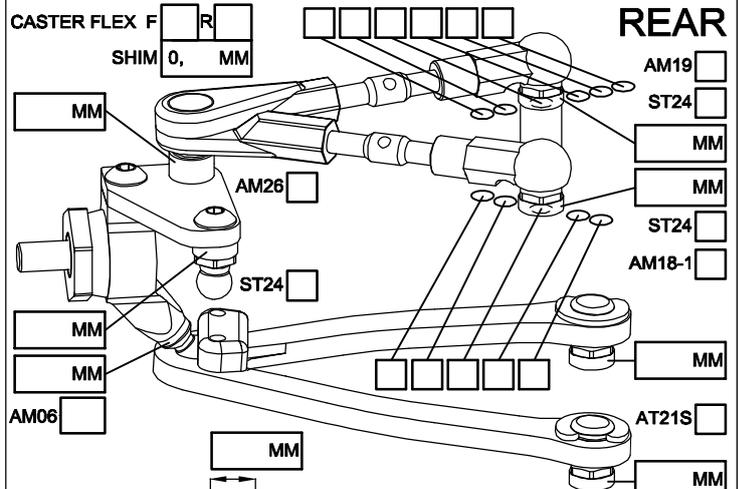


CAMBER ANGLE / ° _____
 CASTER ANGLE / ° _____
 TOE ANGLE / ° _____
 RIDE HEIGHT / MM _____
 DOWNSTOP / MM _____
 UPSTOP / MM _____
 STABILIZER Ø / MM _____
 LOW ARM STD
 STEERING ARM STD
 WHEEL SPACER / MM _____
 FRONT DRIVE BALL DIFF GEAR DIFF SPOOL ONE-WAY
 DIFF SET LOOSE MEDIUM TIGHT OIL # _____
 DOGBONE DRIVE BUSHING C-DRIVE BB EVD



SPRING STD S
 DAMPER #6 #3
 ACTION SYM. ASYM.
 SRS/RHS ARR. I II

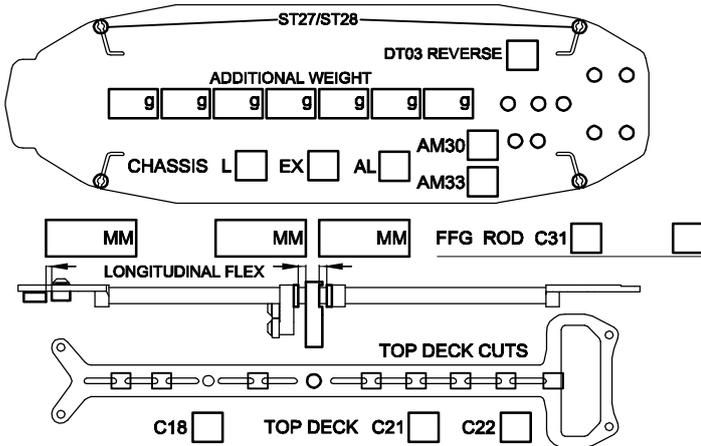
REAR



SPRING STD S
 DAMPER #6 #3
 ACTION SYM. ASYM.
 SRS/RHS ARR. I II

CAMBER ANGLE / ° _____
 CASTER ANGLE / ° _____
 TOE ANGLE / ° _____
 RIDE HEIGHT / MM _____
 DOWNSTOP / MM _____
 UPSTOP / MM _____
 STABILIZER Ø / MM _____
 LOW ARM STD
 STEERING ARM STD
 WHEEL SPACER / MM _____
 REAR DRIVE BALL DIFF GEAR DIFF
 DIFF SET LOOSE MEDIUM TIGHT OIL # _____
 DOGBONE DRIVE BUSHING C-DRIVE BB EVD

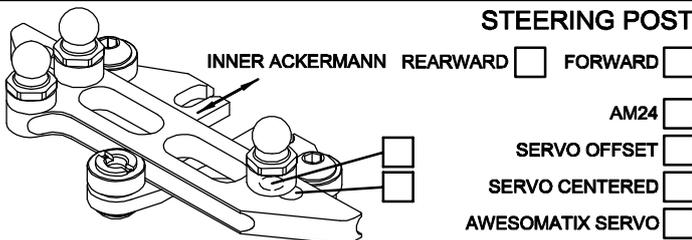
FRAME FLEX SETTING



FL	FR	RL	RR	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 SD1 RECEIVER _____
 FINAL DRIVE RATIO _____ MOTOR OFFSET / MM _____
 BODY _____ WING _____

STEERING POST



BEST LAPTIME _____ QUALIF. / FINAL POSITION _____ /
 ESC SETTING _____
 COMMENTS / IMPRESSIONS _____

 CONTACT _____

Standard Spare Parts

FFG	Floating Front Gearbox Set
AM40	FFG Rear Plate
AM41	FFG Gear Box Support
AM42-1	FFG Link Holder Front
AM43-1	FFG Bulkhead
AM44-1	FFG Gear Box
AM46-1	FFG Front plate
AM48	FFG Shaft Support
AM49	FFG Tower
AM50	FFG Rear Stopper
AM54-1	FFG Link Holder Rear
AM56	FFG Clamping Bar
AT31	FFG Alloy Rod
ST24	4.8mm Ball Stud
DT04	FFG Collar
B74RS	MR74RS Bearing
SF3X6	M3x6 Flat Head Screw
SB25X8	M2.5x8 Button Head Screw
SC2X6	M2x6 Cap Head Screw
SB3X5	M3x5 Button Head Screw

Optional Parts

C21	FFG Top Deck Narrow
C22	FFG Top Deck Wide
C18	FFG Top Deck Link
C31	FFG Carbon Rod
C31S	FFG Carbon Rod Soft
ST34	FFG Steel Rod
C01AL	Alloy Lower Deck
AM30-5	Chassis Stiffener
AM33-5	Chassis Stiffener Long
AM12-1	Battery Holder
P06-1	Downstop Collar
SWB14	Sway Bar 1,4mm
AT123	GD2 Case1
AT124	GD2 Case2
ST31	GD2 Output Axle
SS3X4-1	M3x4 DIN915 Screw
OR13	13mm O-Ring
P36	Flexible Caster Block (FCB)
P38	FCB Link
OR08	FCB O-Ring
AM28	FCB Link
ST33	FCB Screw
AT33	FCB Hex Shim
P13-4	Ball End
SB25X5	M2.5x5 Button Head Screw
AS-700L	BLS Servo
C32	Carbon Main Shaft
G07	GD2 Satellite Gear
G08	GD2 Bevel Gear
P39	GD2 Cross Pin
WA02	Washer 3.5x9.5x0.2
WA03	Washer 5x15.5x0.3



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