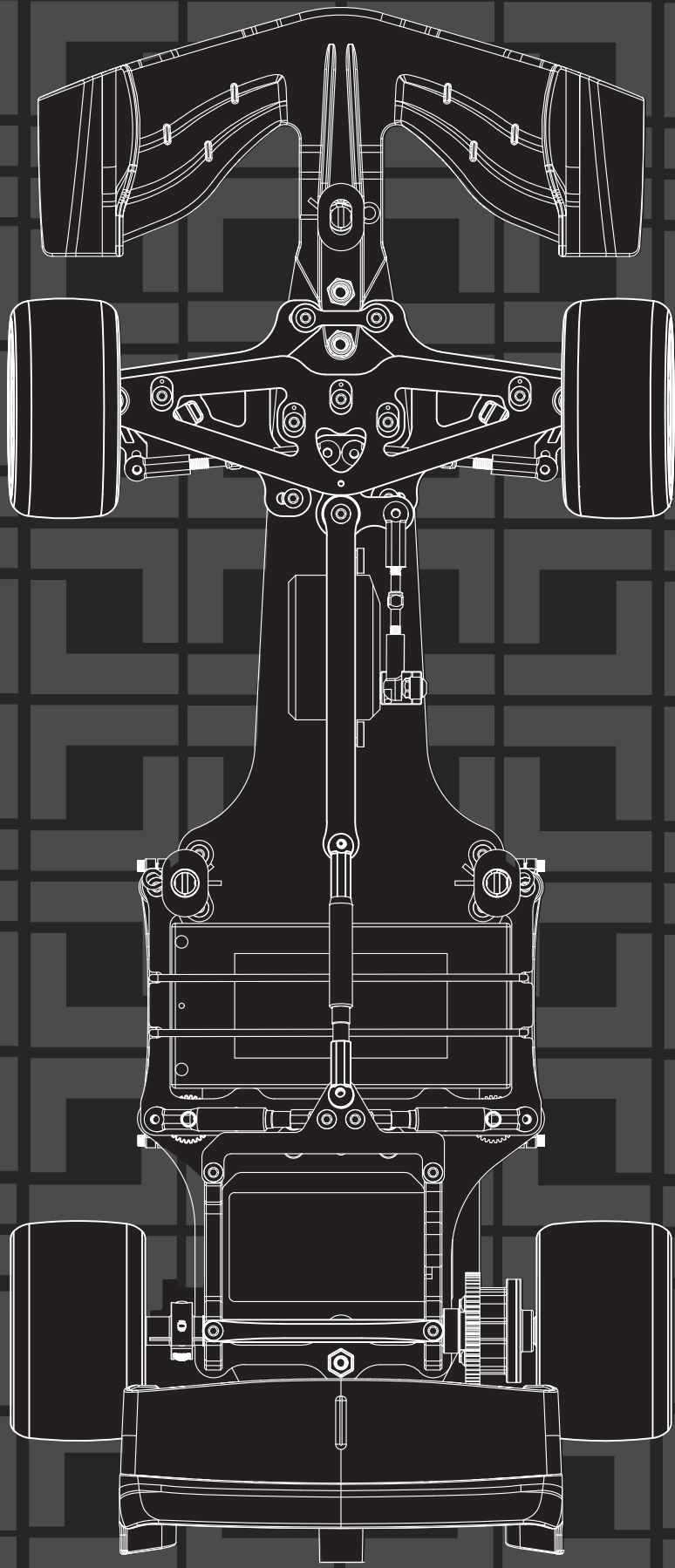


RS

F1-180-VS



Thank you for purchasing this TEAMSAXO product. This high performance competition kit has been proudly manufactured by TEAMSAXO World Champion R/C car manufacturer.
Proper assembly of this product will provide fun,safe enjoyment.

PRECAUTIONS FOR SAFE ENJOYMENT OF YOUR R/C CAR

For children under the age of 13, parental guidance is recommended when running.

ASSEMBLY PRECAUTIONS

Do not assemble around small children. The parts can be dangerous if accidentally swallowed.

Check the contents carefully before assembly. Please contact Customer Support if you happen to notice any defective or missing items.

You will find the assembly process much easier by carefully reading through the manual, and familiarizing yourself with the instructions.

Many different tools are required during assembly.
For safety purposes, please use suitable tools.
Exercise extra caution when using a sharp tool such
as a hobby knife.

Many different materials are used for the parts. Use extra care when handling parts with sharp edges, such as machined metal parts.

When cutting plastic parts, watch for any flying parts.

Try to assemble any rotating parts of drivetrain parts as smooth as possible.

Bundle wires neatly away from the ground or any moving drivetrain components. Make sure that all wires are properly connected to prevent shorting.

Unnecessary modifications may be unsafe and hinder performance.

Always paint in a well ventilated area away from flames.

PRECAUTIONS BEFORE RUNNING

Teamsaxo R/C cars are built for competition use, and some models may exceed speeds of 40km per hour. Practice common sense and run the car in open safe places, or R/C car tracks.

Do not run the car on public roads with high amounts of traffic, or in areas that may cause an inconvenience to people in that area.

R/C cars are controlled using radio frequency. In a worst-case scenario, radio interferences may cause loss of control.

If others near you are running R/C cars, confirm that they are not running on the same frequency.

R/C cars do not like water. Avoid running on rainy days, or areas with water puddles. Exposure of the electronics to water may cause loss of control or damage to the electronics.

The drivetrain of an R/C car consists of many moving parts like gears,belts,shafts,and tires.Avoid touching these areas when the battery is connected.

Many parts of an R/C car will become hot after running. Allow the parts to sufficiently cool before conducting any maintenance

BEGINNING A RUN

1. Place the R/C car on a stand so the wheels are off the ground.
2. Confirm that the speed controller switch is OFF, and connect the motor and battery
3. Extend the transmitter antenna and turn the switch ON. (It is unsafe to use a transmitter with low voltage. Make sure that the transmitter batteries are good before running)
4. Turn the speed controller switch ON.

FINISHING A RUN

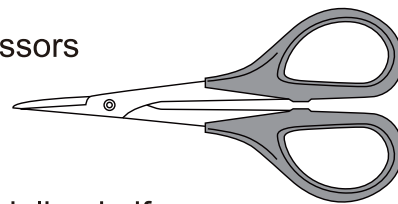
1. Turn the speed controller switch OFF.
2. Disconnect the battery.
3. Turn the transmitter switch OFF, and retract the antenna.

F1-180-V5CHASSIS SPECIFICATION

Overall Length	: 446mm	Overall Width	Front width	:188mm
Wheelbase length	: 260mm		Rear width	:186mm
Weight Chassis only	: 1108g			

ASSEMBLING TOOLS REQUIRED (NOT INCLUDED IN KIT)

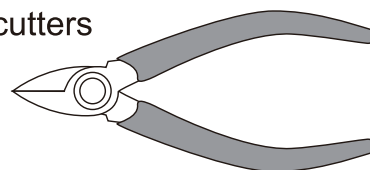
Scissors



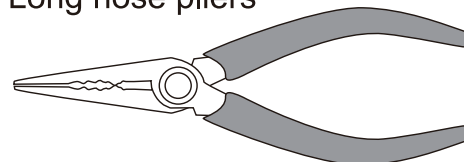
Modeling knife



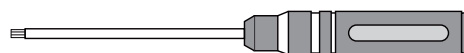
Side cutters



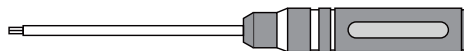
Long nose pliers



Hex wrench (1.5mm)



Hex wrench (2mm)



Tweezers



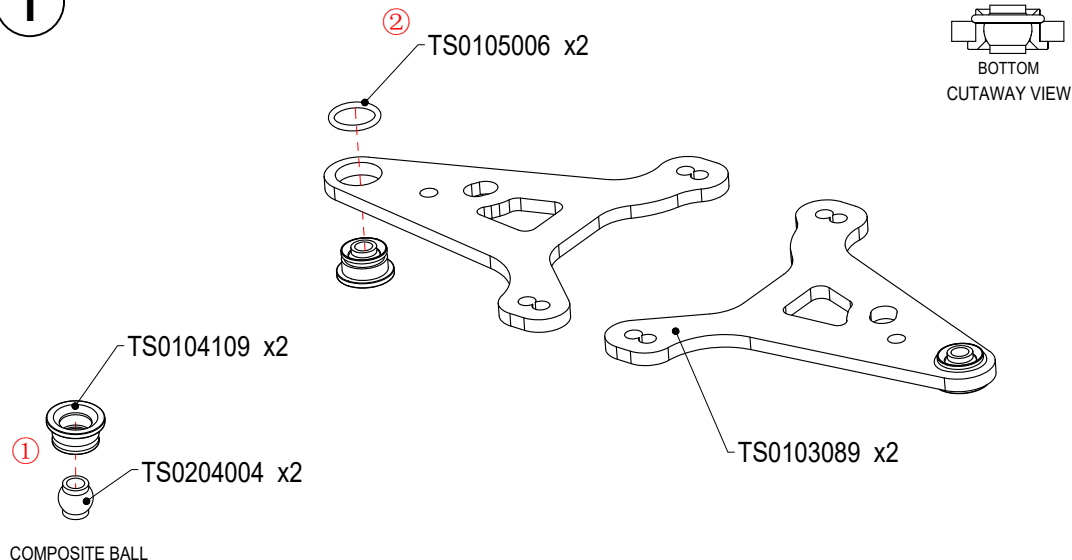
Cap			Screw			Lock nut		
	M2.5x6	SJG306-B		M2.5x4	SIG2. 504-B		M3	SN-M3-F
	M3x6	SJG306-B		M2.5x8	SIG2. 508-B		M4	SN-M4-F
	M3x8	SJG308-B		M3x6	SIG304-B	Ball bearing		
	M3x25	SJG325-B		M3x6	SIG306-B		5x9x3	MR95ZZ
	M4x18	SJG418-B		M3x8	SIG308-B		6.35x9.525x3.175	FR168ZZ
				M3x14	SIG314-B		6.35x9.525x3.175	R168-2RS
Cap screw			Grub screw				5x10x4	MR105
	M1.6x4	SG1. 604-B		M3x8	SK308-B			
	M2.5x8	SG2. 508-B		M3x10	SK310-B			
E-Ring								
	E-ring2.0	0E-E2. 0-1						



1 ~ 6 Kit Bag A

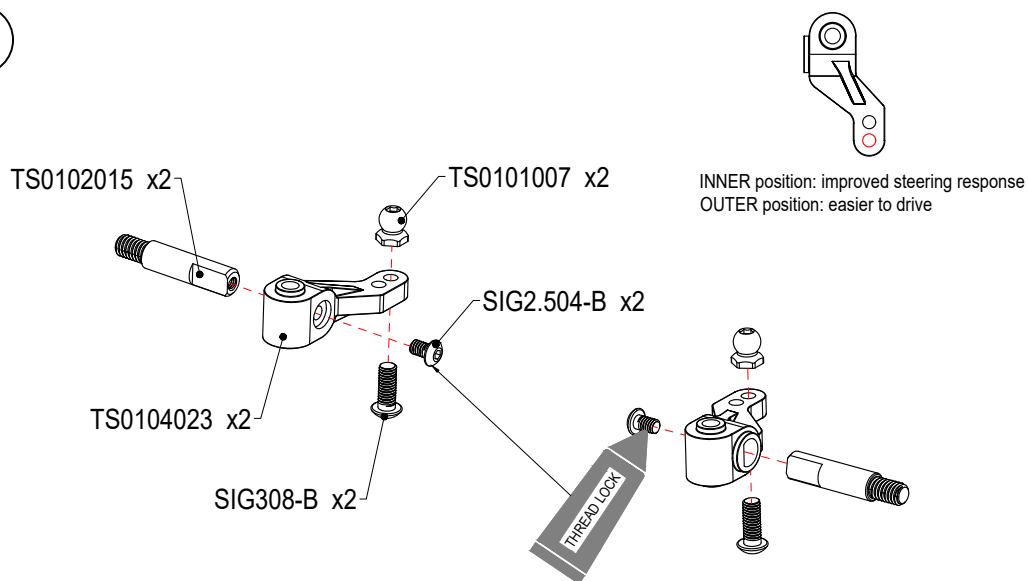
- TS0104109.....2
- TS0204004.....2
- (O-RING $\phi 5 \times \phi 7 \times \phi 1$)
- TS0105006.....2

1



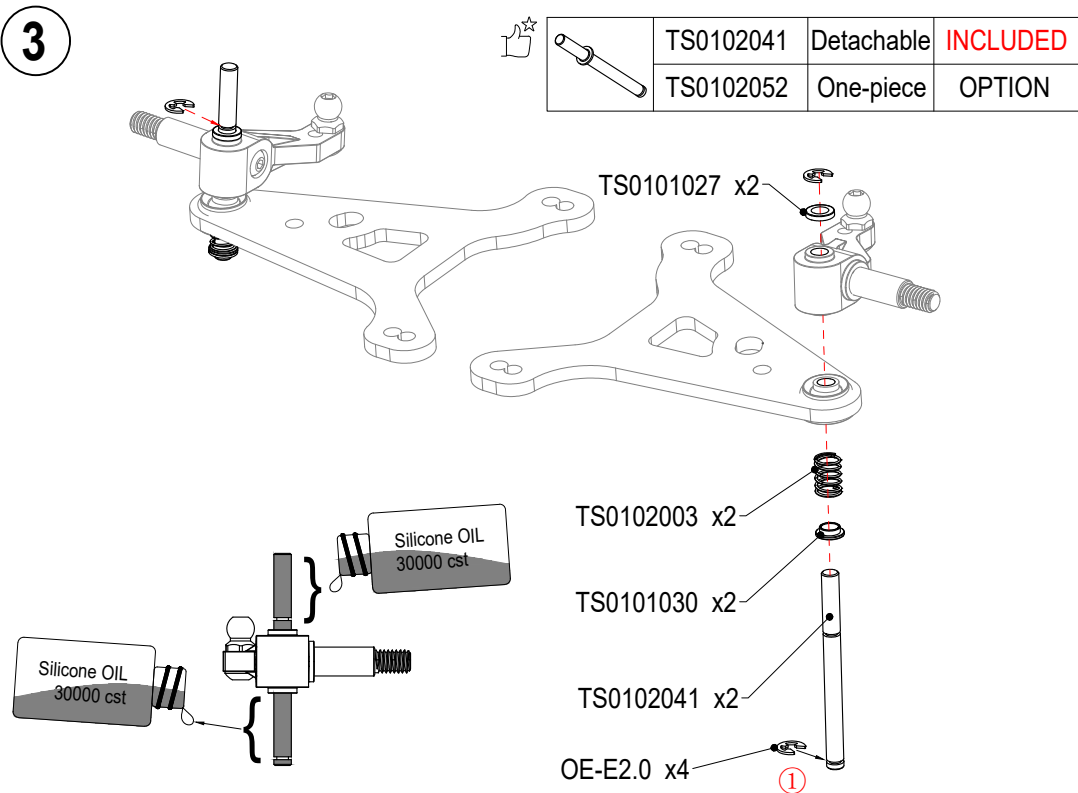
- TS0101007.....2
- TS0102015.....2
- TS0104023.....2
- SIG_M2.5X4.....2
- SIG_M3X8.....2

2



- TS0102041.....2 (L=36.7mm)
- TS0101030.....2
- TS0102003.....2
- OE_E2.0.....4
- (Shim $\phi 3 \times \phi 5.5 \times 1$)
- TS0101027.....2

3





SJG_M3X6.....2

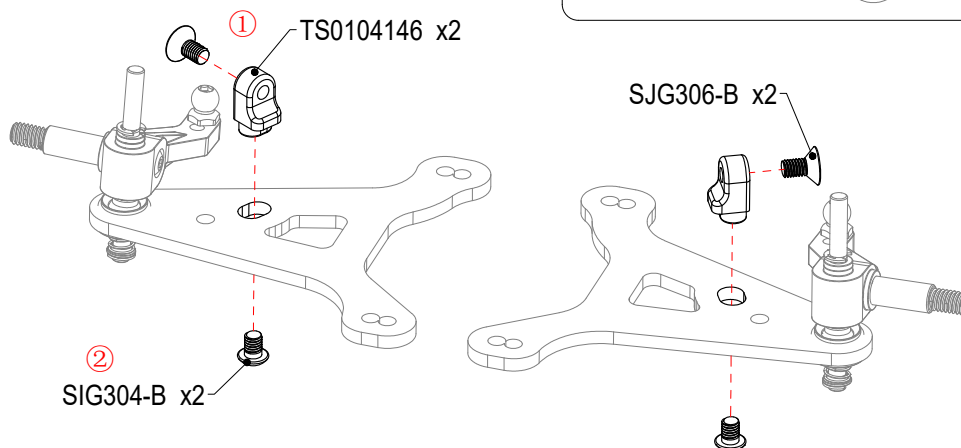
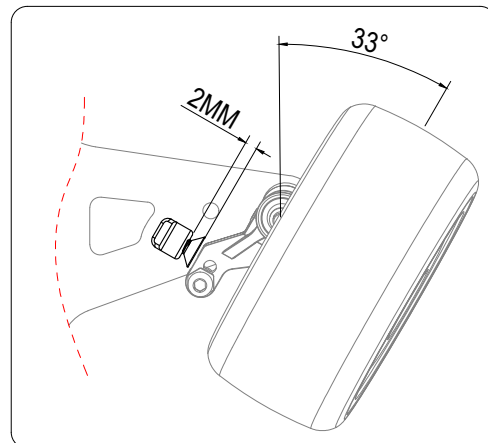


SIG_M3X4.....2



TS0104146.....2

4



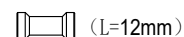
SJG_M3X8.....4



SIG_M3X6.....2



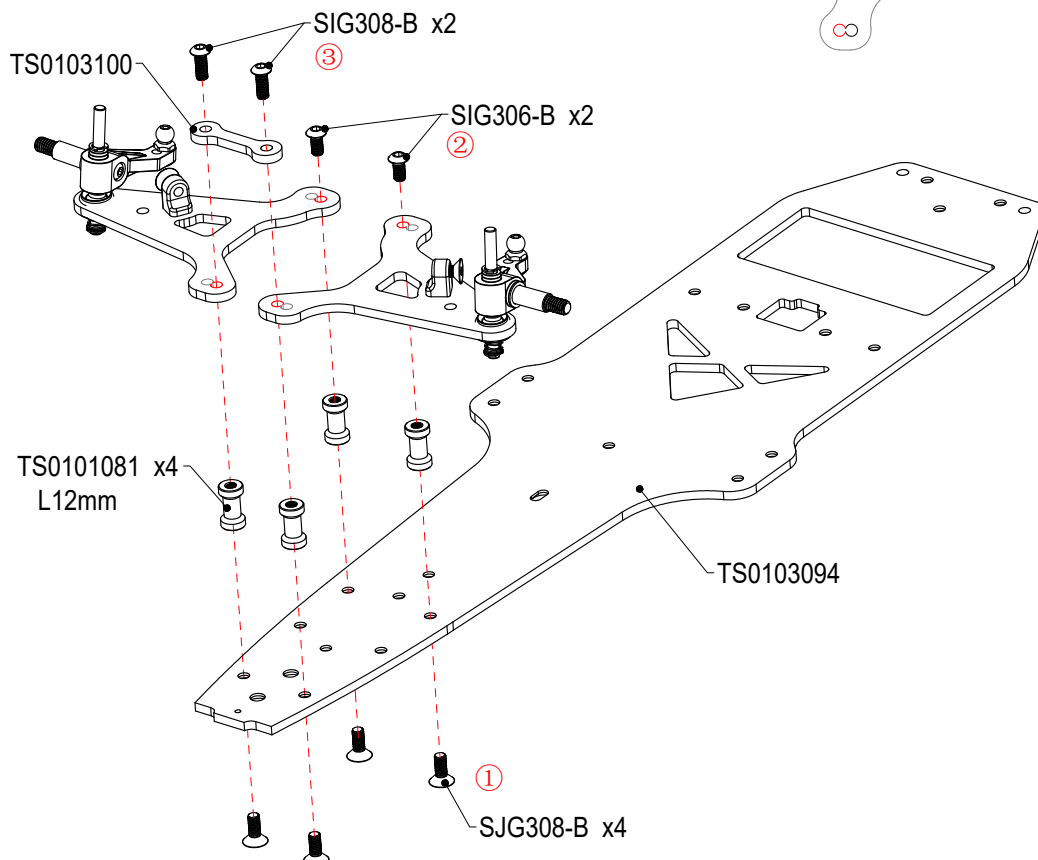
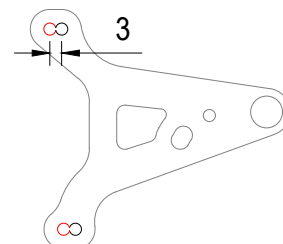
SIG_M3X8.....2



TS0101081.....4

5

Standard design: Front width (188 mm), assembly to choose the red-marked mounting holes.
To setup front narrow width (182 mm), assembly to choose the black-marked mounting holes, need to use option part, OP parts can be purchased separately, details refer to page 12.



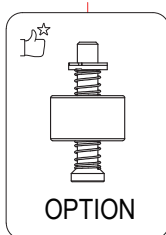
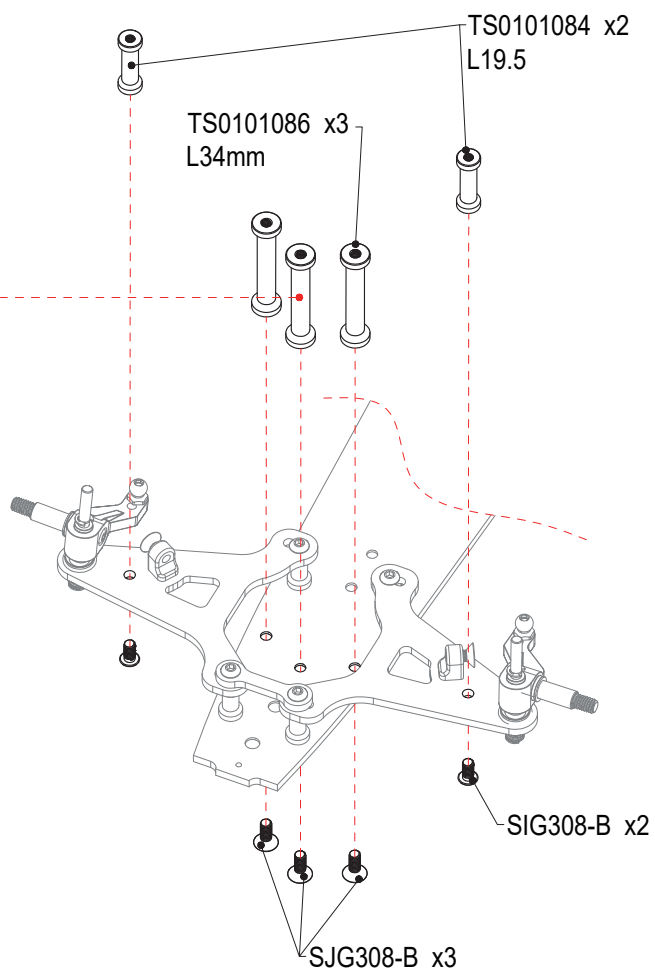
6

 SJG_M3X8.....3

 SIG_M3X8.....2

 (L=19.5mm)
TS0101084.....2

 (L=34mm)
TS0101086.....3



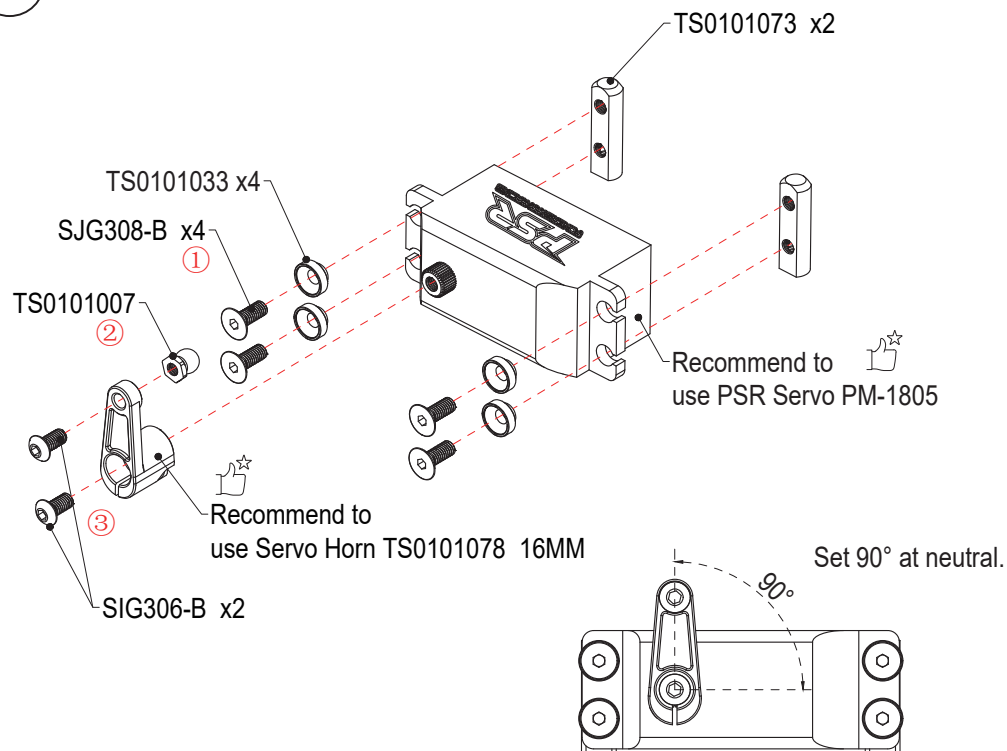
TS01268 Mass Damper
Reduce the effect of bumps on the car.



7 ~ 10
Kit Bag B

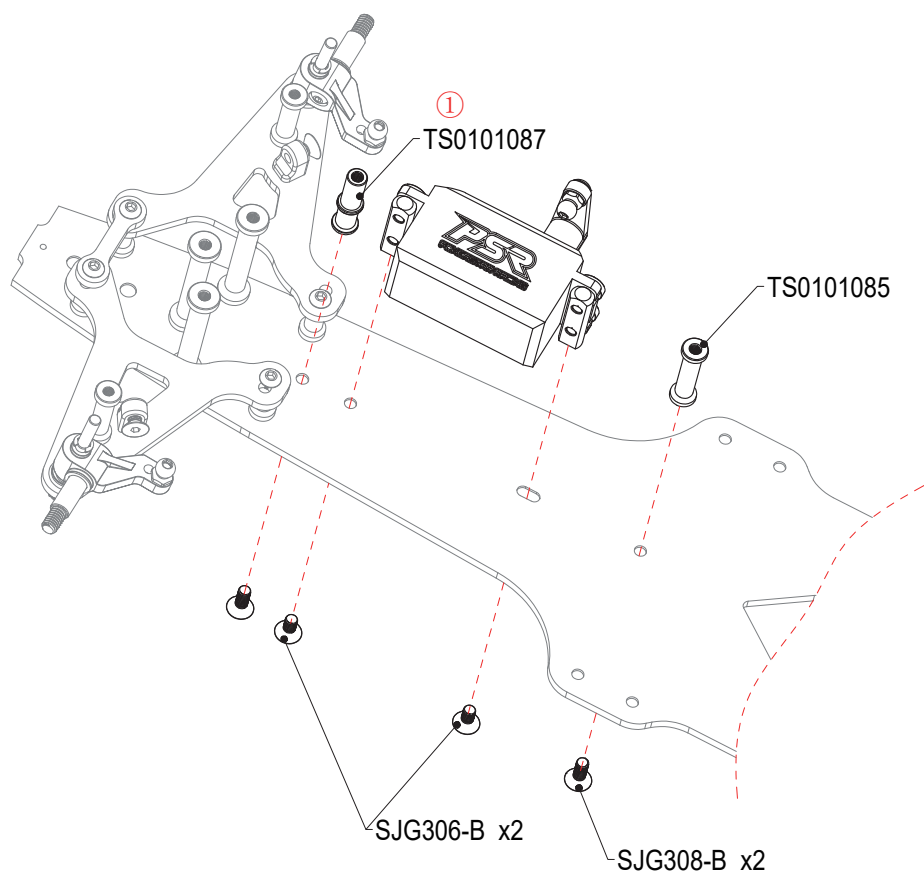
	SIG_M3X6.....2
	SJG_M3X8.....4
	TS0101073.....2
	TS0101033.....4
	TS0101007.....1

7



8

	SJG_M3X6.....2
	SJG_M3X8.....2
 (L=21.5mm)	TS0101085.....1
	TS0101087.....1



 SIG_M3X6.....1

 SIG_M3X8.....2

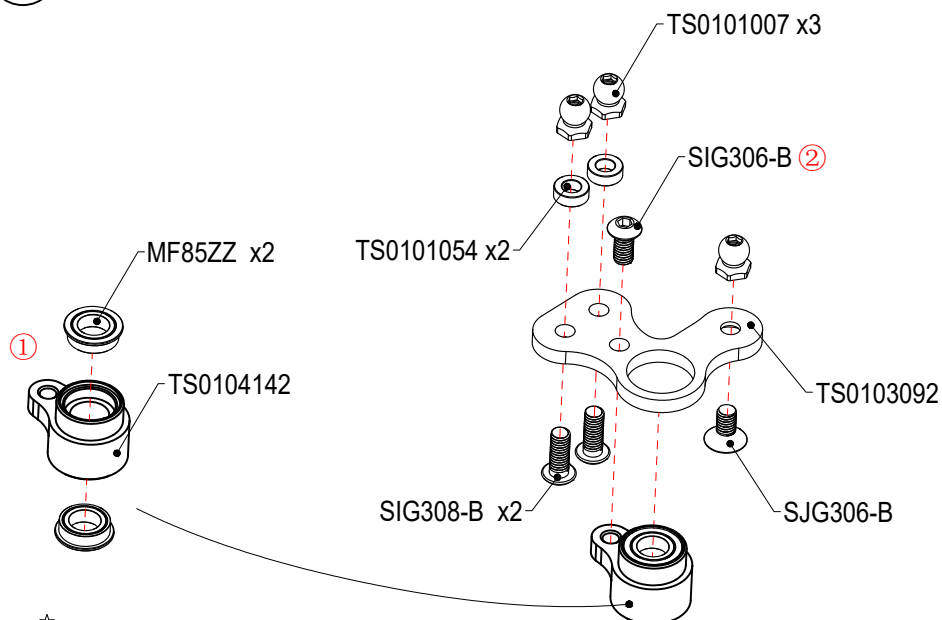
 SJG_M3X6.....1

 ($\phi 5 \times \phi 8 \times 2.5$)
MF85ZZ.....2

 TS0101007.....3

 (Shim $\phi 3 \times \phi 5.5 \times 2$)
TS0101054.....2

9



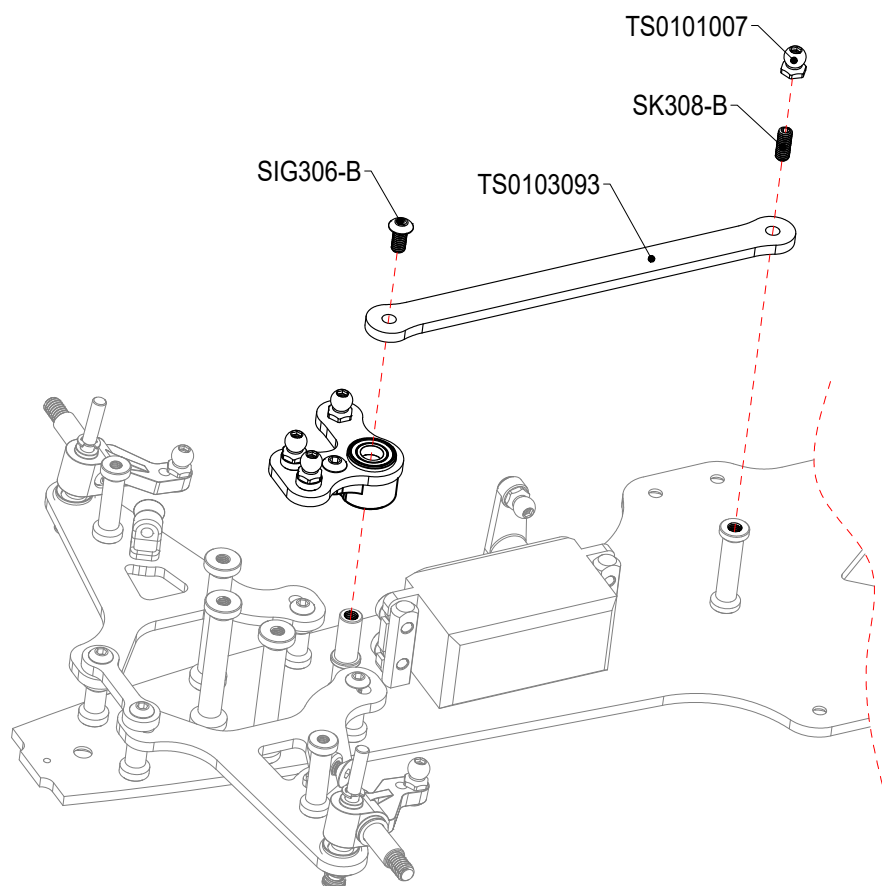
	TS0104142	Plastic	INCLUDED
	TS0101089	Aluminum	OPTION

 SIG_M3X6.....1

 SK_M3X8.....1

 TS0101007.....1

10



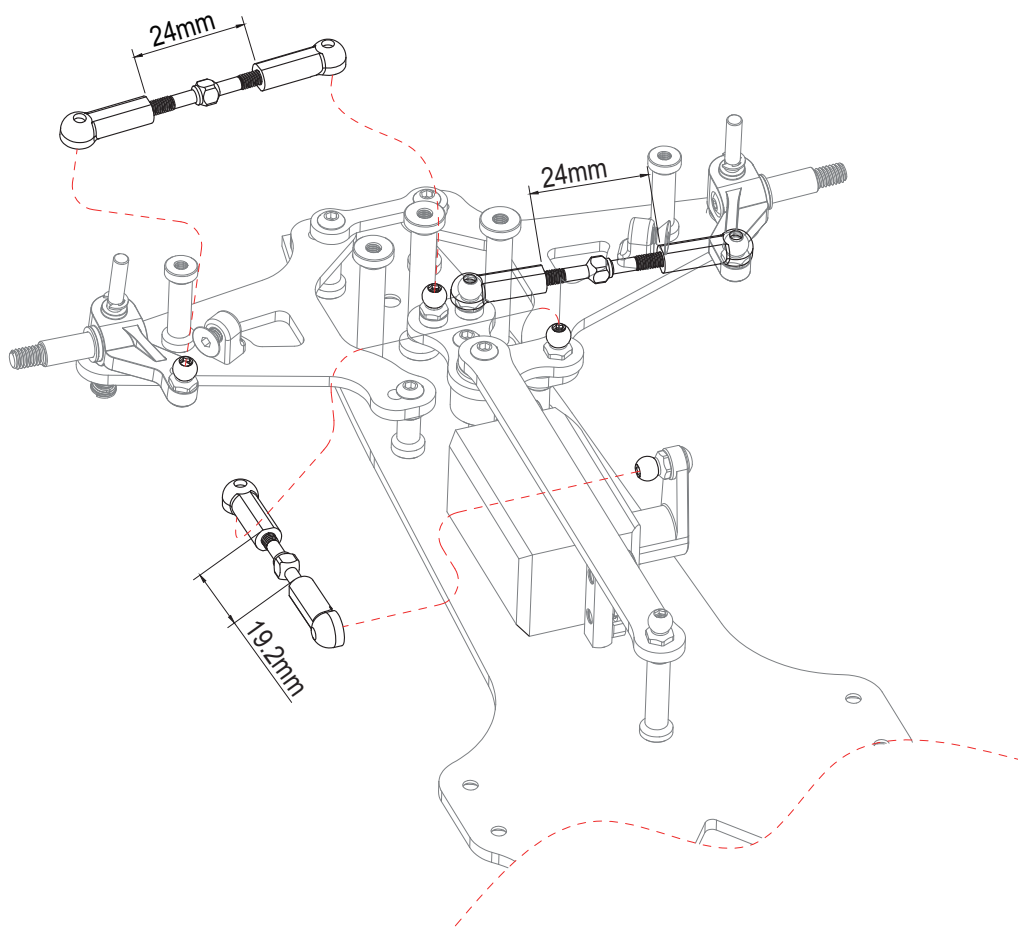
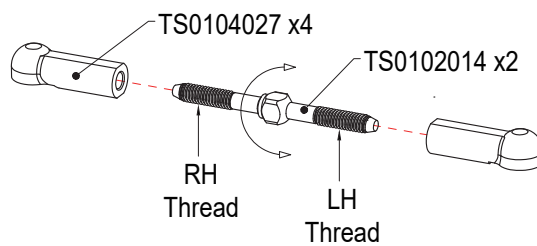
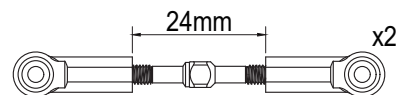
 (L=35mm)

TS0102014.....3

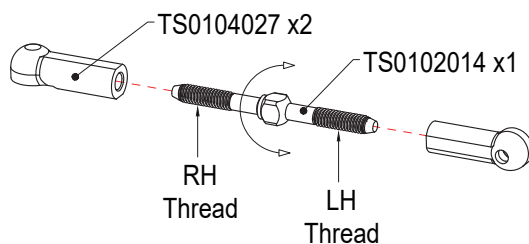
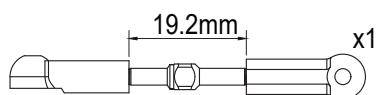


TS0104027.....6

Steering Link.
Make 1.



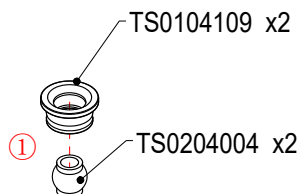
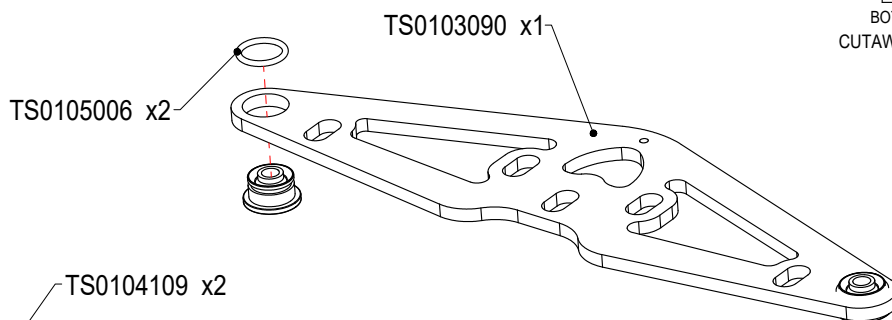
Steering Link.
Make 2.



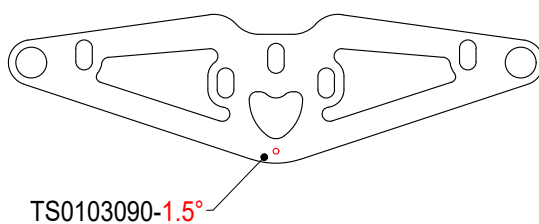
	TS0104109.....2
	TS0204004.....2
 (O-RING $\phi 5 \times \phi 7 \times \phi 1$)	
TS0105006.....2	

12

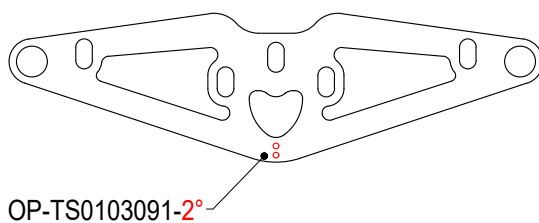
TOP
BOTTOM
CUTAWAY VIEW



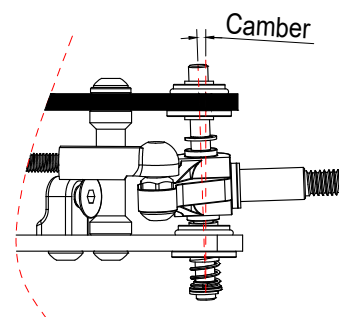
COMPOSITE BALL



TS0103090-1.5°

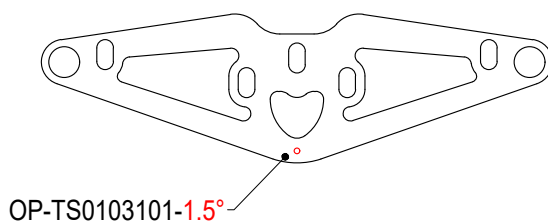


OP-TS0103091-2°

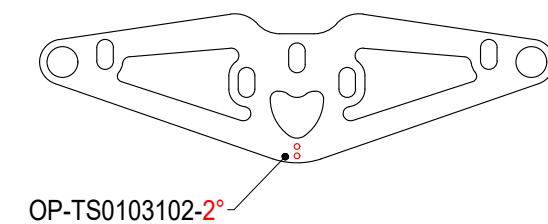


Camber		
TS0103090	1.5°	INCLUDED
TS0103091	2°	OPTION

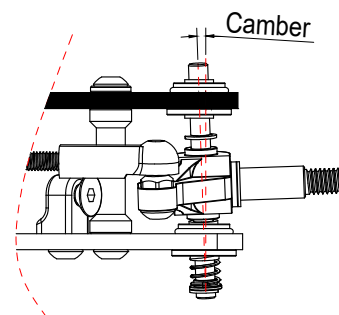
Front width (188 mm)



OP-TS0103101-1.5°



OP-TS0103102-2°

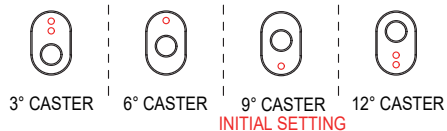
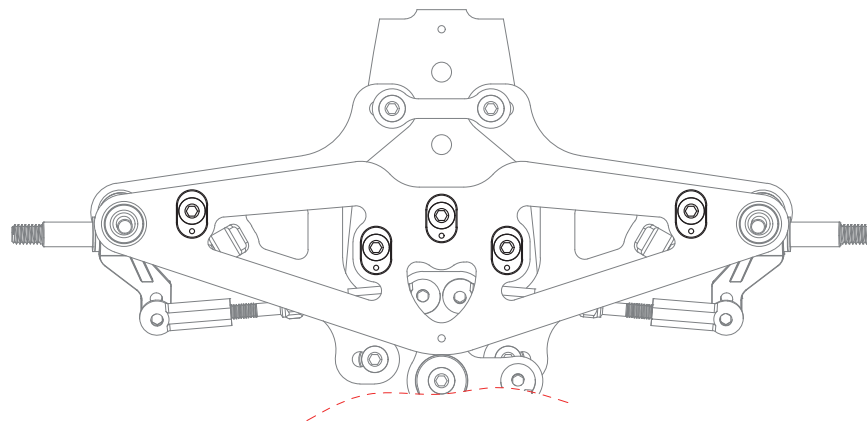
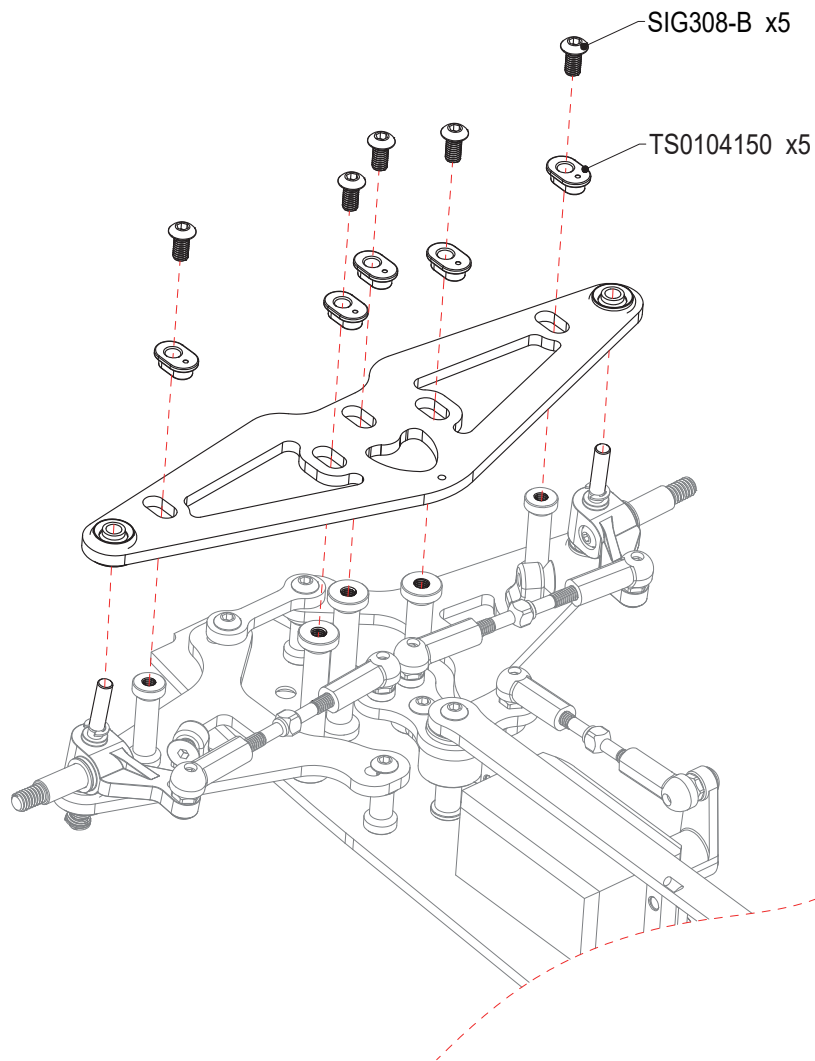


Camber		
TS0103101	1.5°	OPTION
TS0103102	2°	OPTION

Front width (182 mm)

	SIG_M3X8.....5
	(6&9度)
	TS0104150.....5
	(3&12度)
	TS0104149.....5

13



These offset bushings adjust the front CASTER.
 MORE caster angle = better cornering speed, increased traction rolling.
 Use on large, open tracks where cornering speed is needed.
 LESS caster angle = more reactive steering. Use on technical tracks where
 a lot of steering response is needed.



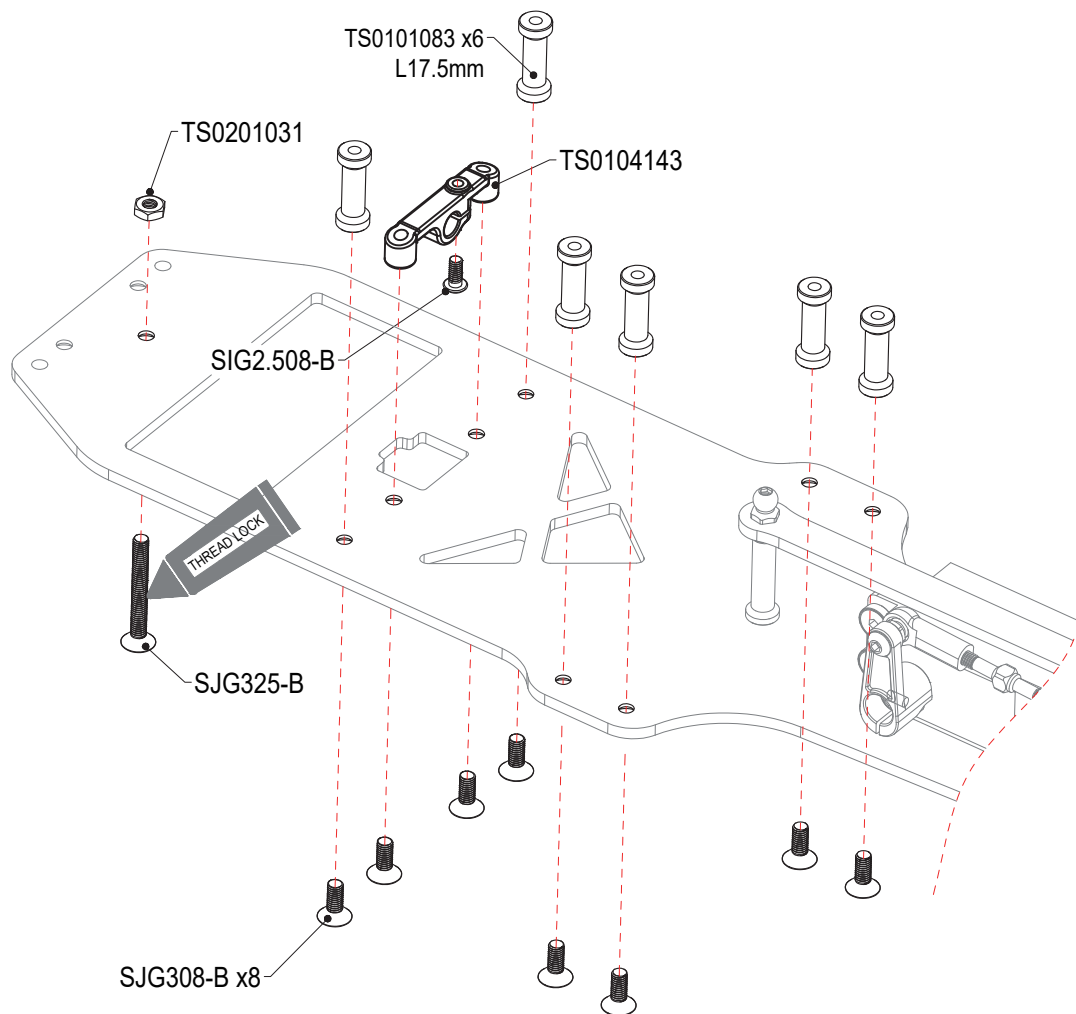
14 ~ 17
Kit Bag D

- SIG_M2.5X8.....1
- SJG_M3X8.....8
- SJG_M3X25.....1
- TS0201031.....1
- TS0101083 (L=17.5mm).....6

14

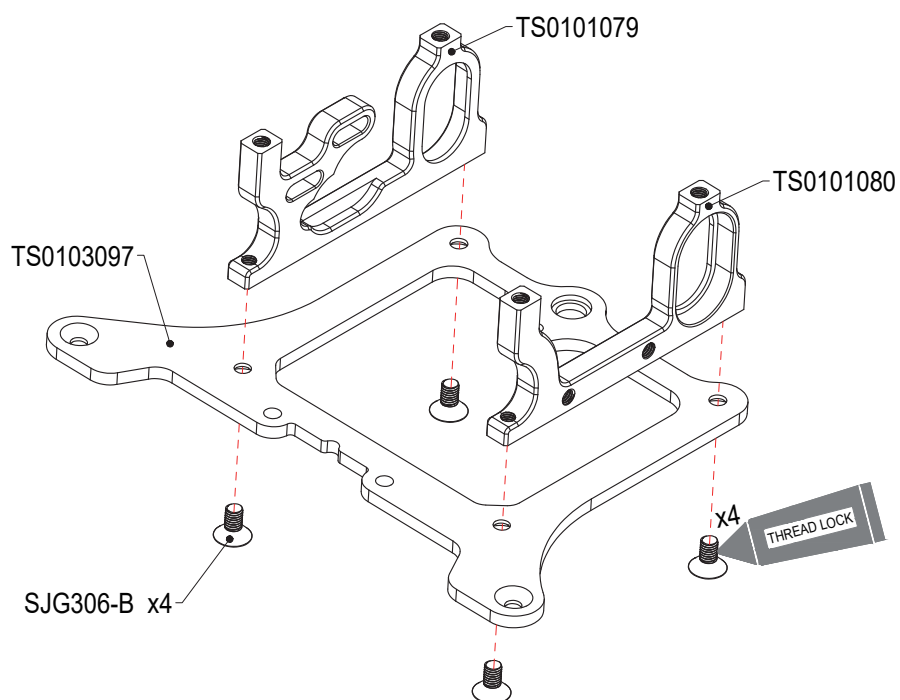


	TS0104143	Plastic	INCLUDED
	TS0101090	Aluminum	OPTION



- SJG_M3X6.....4

15

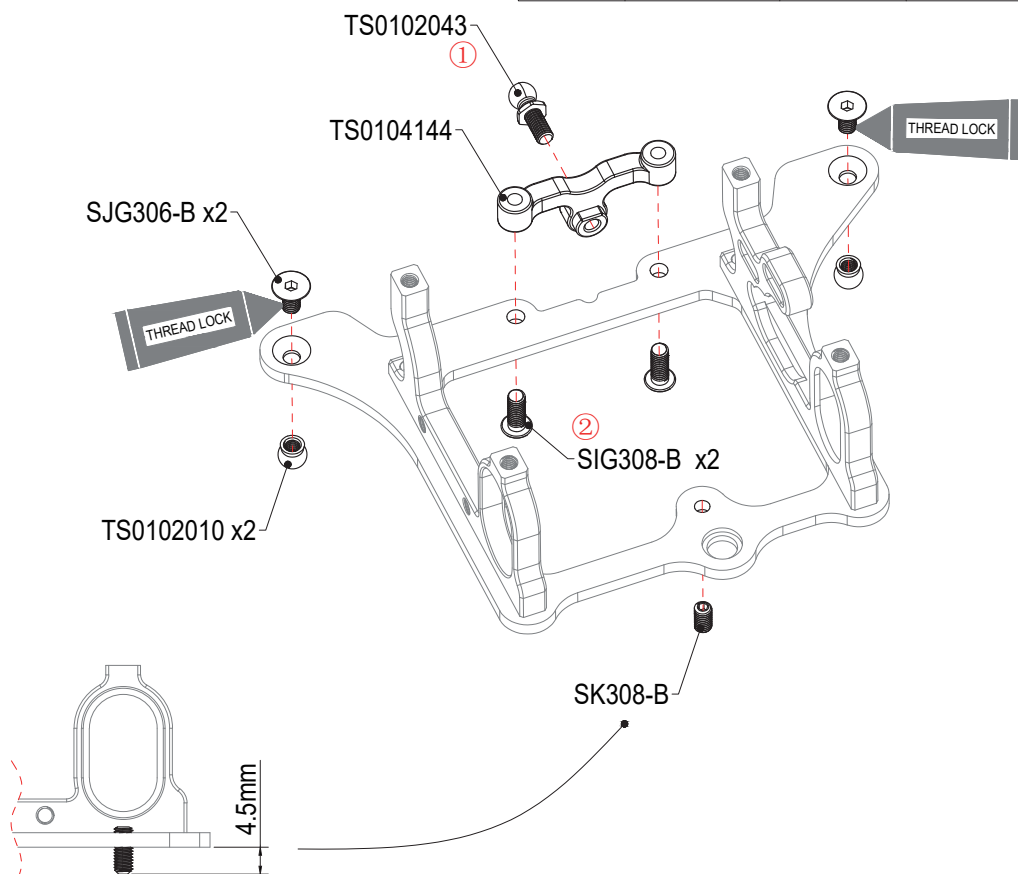


-  TS0102043.....1
-  SJG_M3X6.....2
-  SIG_M3X8.....2
-  SK_M3X8.....1
-  TS0102010.....2

16

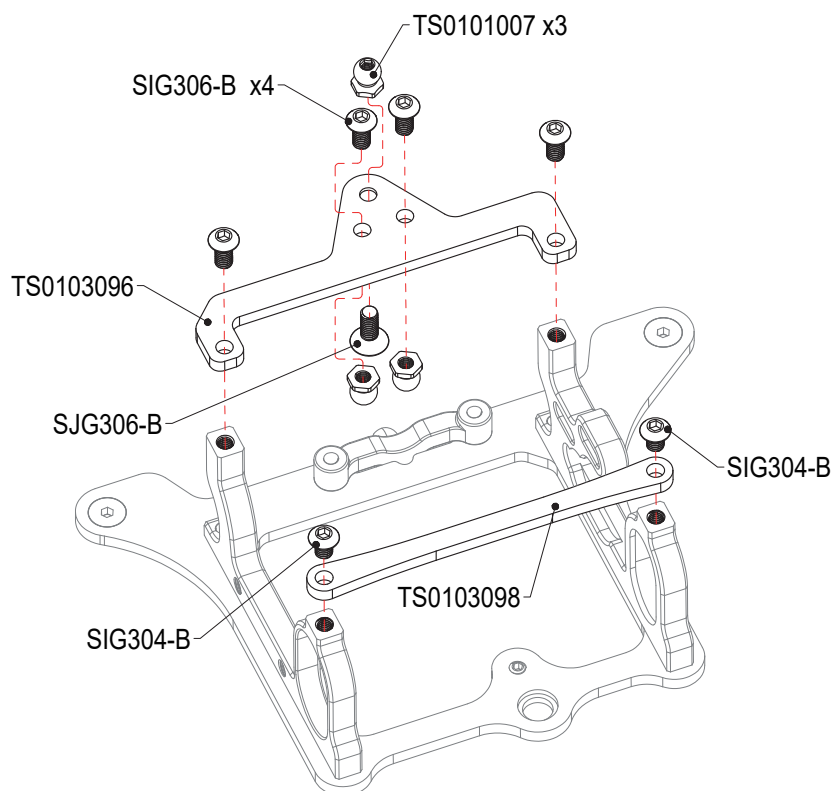


	TS0104144	Plastic	INCLUDED
	TS0101091	Aluminum	OPTION

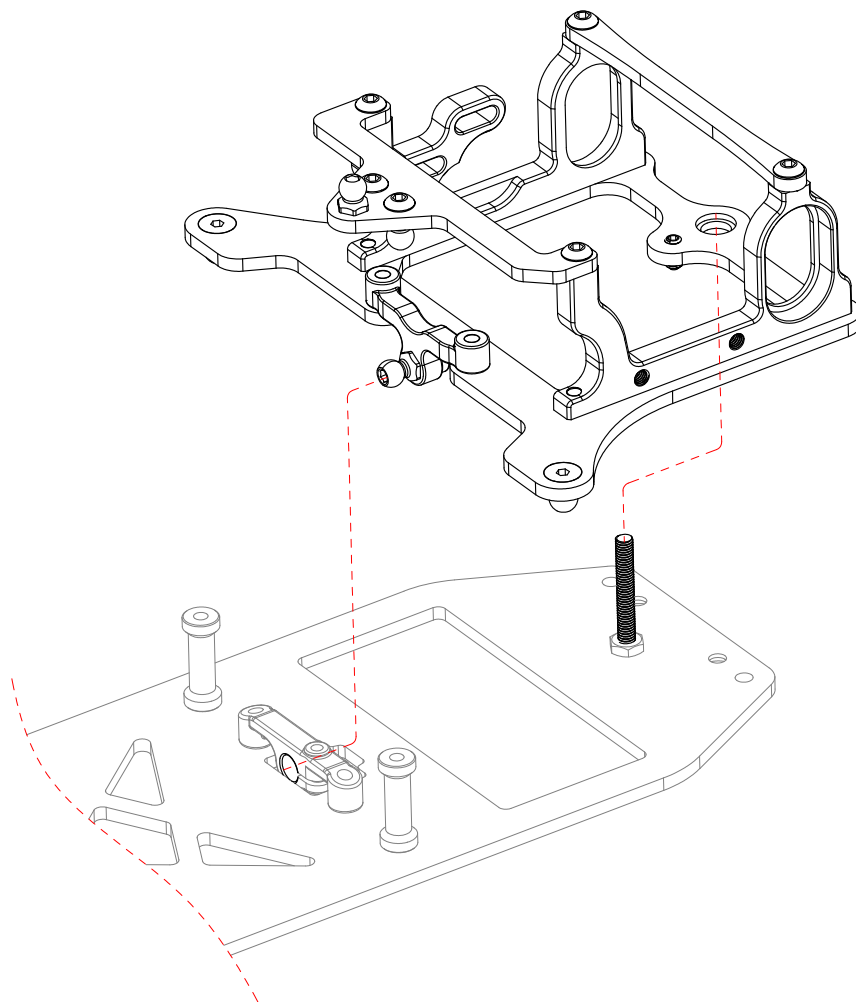


-  SIG_M3X4.....2
-  SIG_M3X6.....4
-  SJG_M3X6.....1
-  TS0101007.....3

17

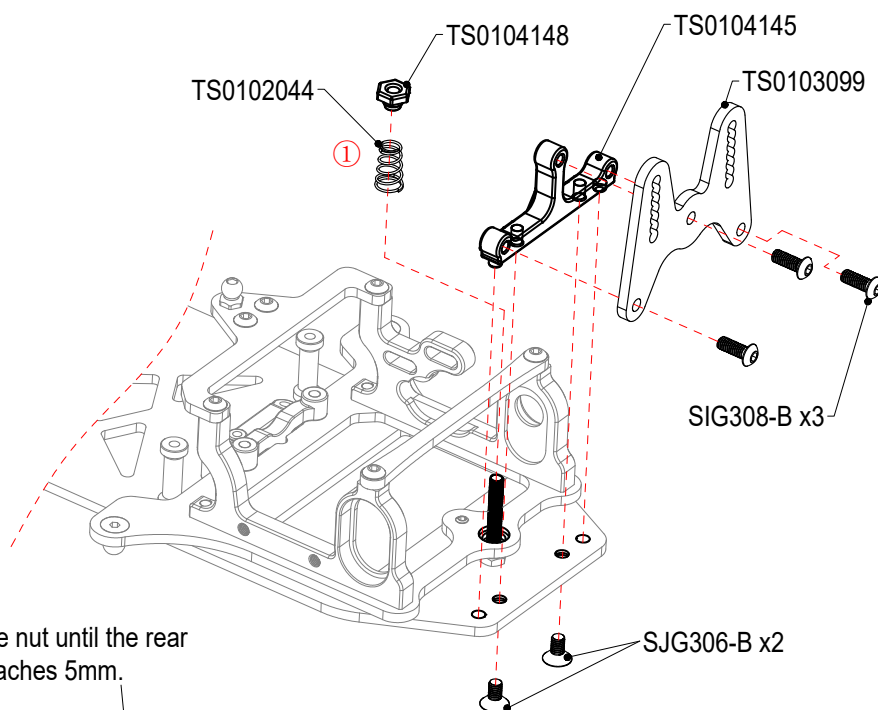


18

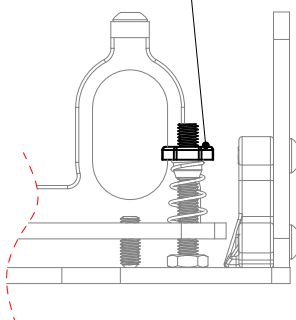


19

-  SJG_M3X6.....2
-  SIG_M3X8.....3
-  TS0104148.....1
-  TS0102044.....1



Adjust the nut until the rear height reaches 5mm.



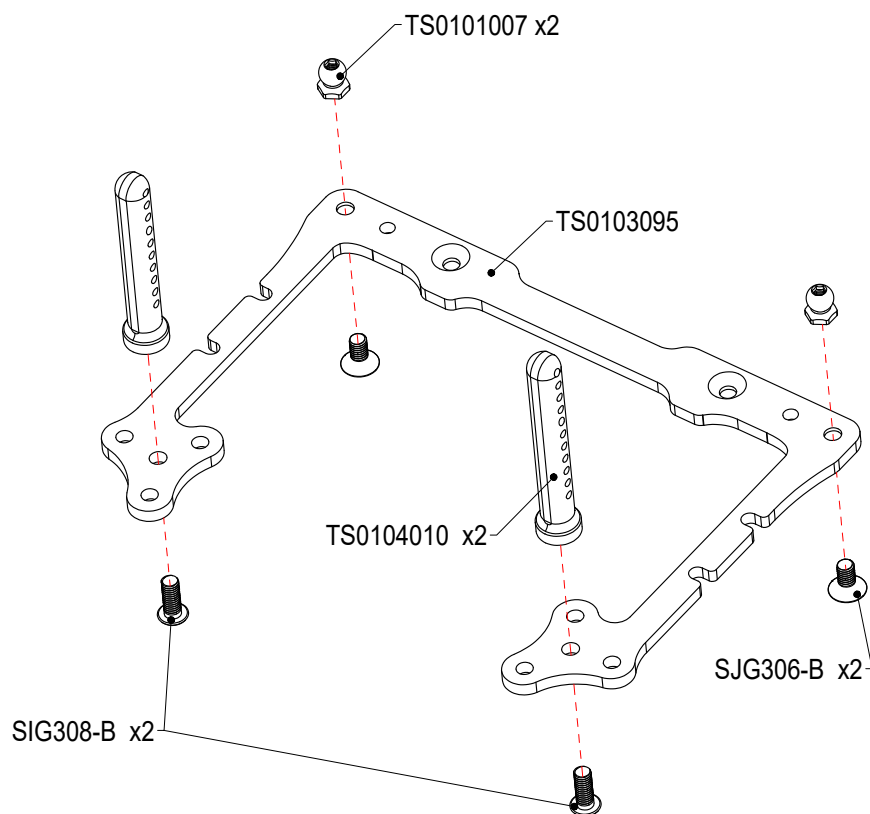
	TS0102038	Extra Firm	OPTION
	TS0102039	Soft	OPTION
	TS0104144	Firm	INCLUDED
	TS0101045	Extra Soft	OPTION
	TS0104145	Plastic	INCLUDED
	TS0101092	Aluminum	OPTION



20 ~ 23
Kit Bag E

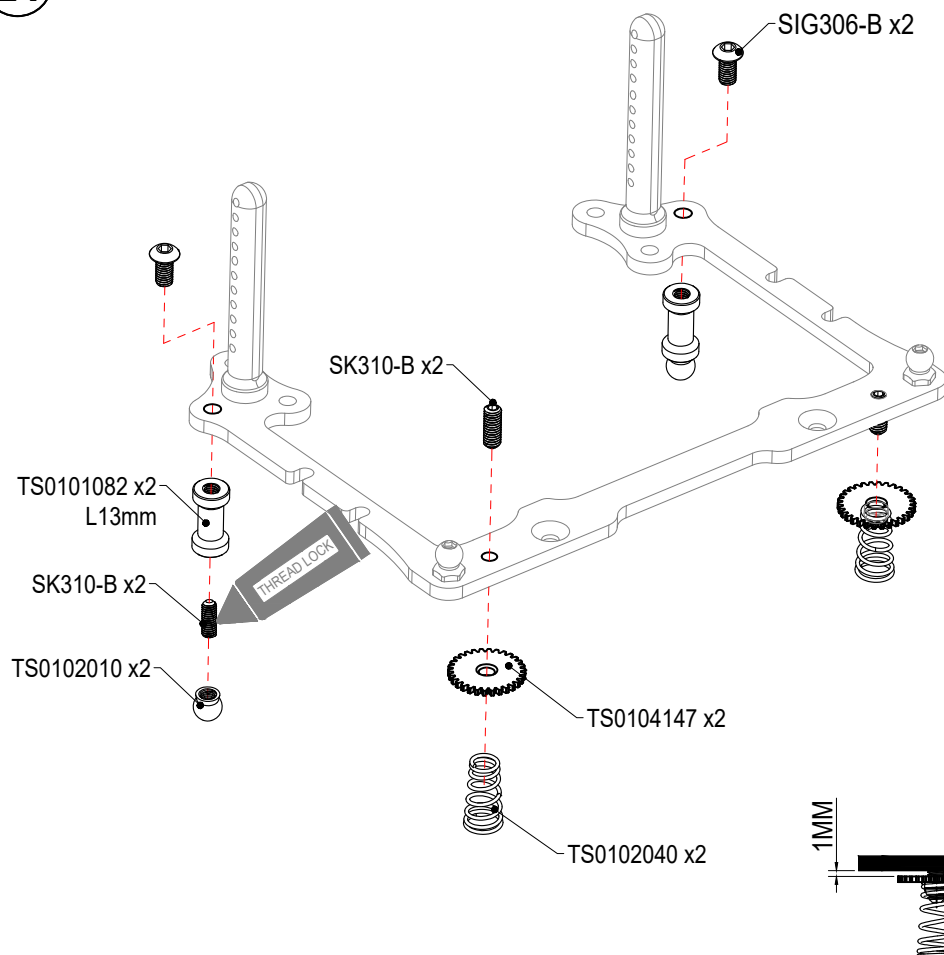
20

-  SIG_M3X8.....2
-  SJG_M3X6.....2
-  TS0101007.....2
-  (11K)
TS0104010.....2



21

-  SIG_M3X6.....2
-  TS0102040.....2
-  TS0104147.....2
-  SK_M3X10 4
-  (L=13mm)
TS0101082.....2
-  TS0102010.....2



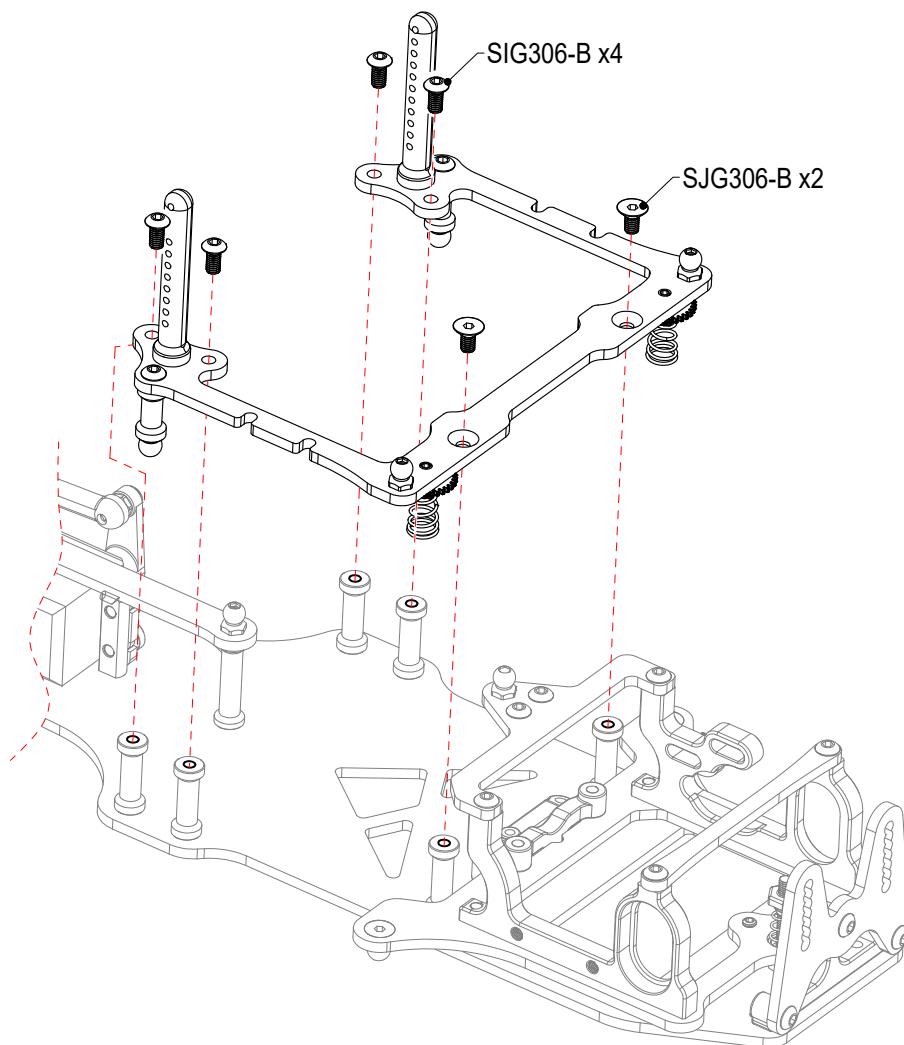


SIG_M3X6.....4



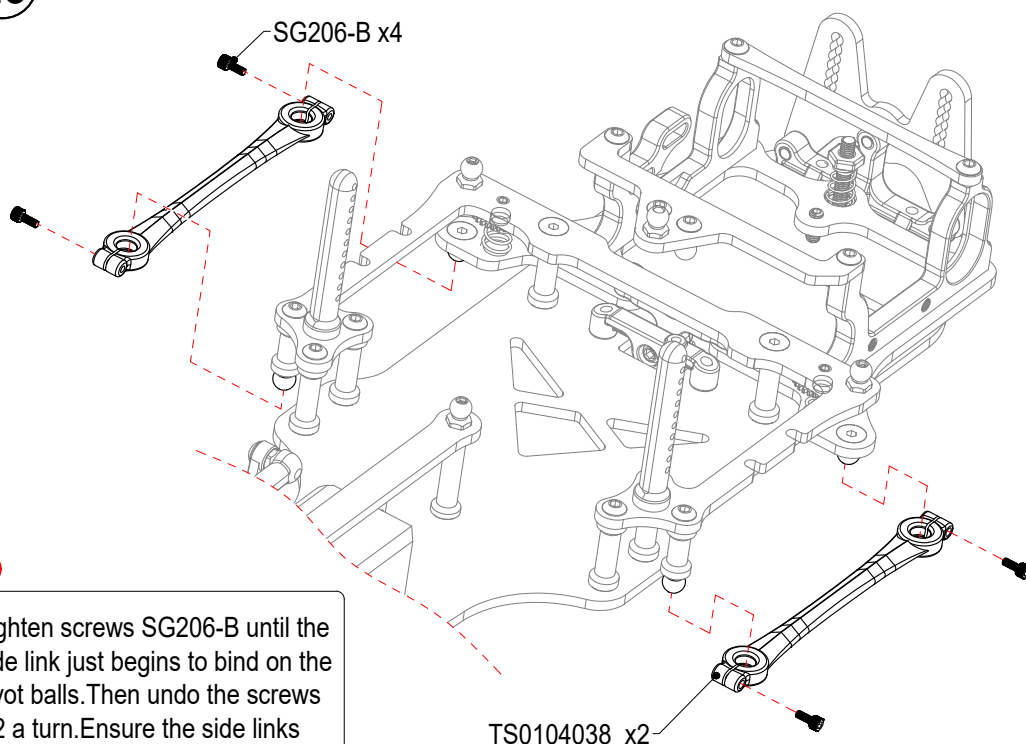
SJG_M3X6.....2

22



SG_M2X6.....4

23



Tighten screws SG206-B until the side link just begins to bind on the pivot balls. Then undo the screws 1/2 a turn. Ensure the side links can pivot freely.

TS0104038 x2



24 ~ 27
Kit Bag F

○ (O ring $\phi 4.8 \times \phi 8 \times \phi 1.6$)

TS0105018.....1

⊗ ($\phi 6.35 \times \phi 9.525 \times 3.175$)

R168-2RS.....1

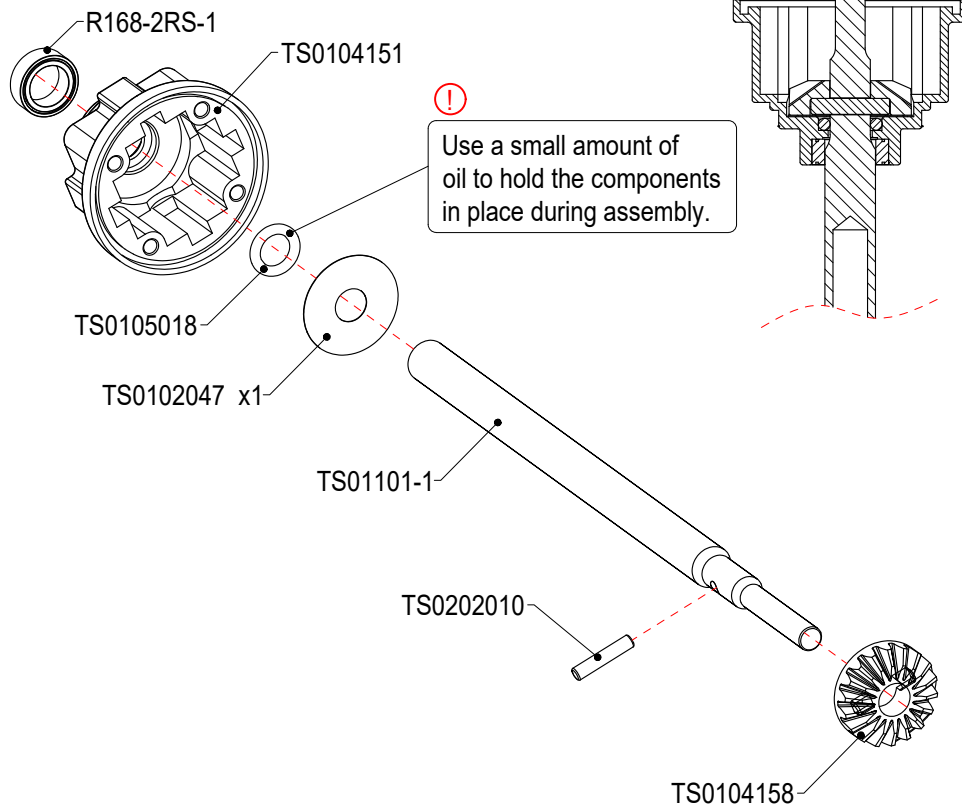
○ ($\phi 12 \times \phi 5.1 \times 0.1$)

TS0102047.....1

— ($\phi 2 \times 10$)

TS0202010.....1

24



○ (O ring $\phi 4.8 \times \phi 8 \times \phi 1.6$)

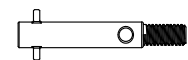
TS0105018.....1

⊗ ($\phi 5 \times \phi 9 \times 3$)

MR95ZZ.....1

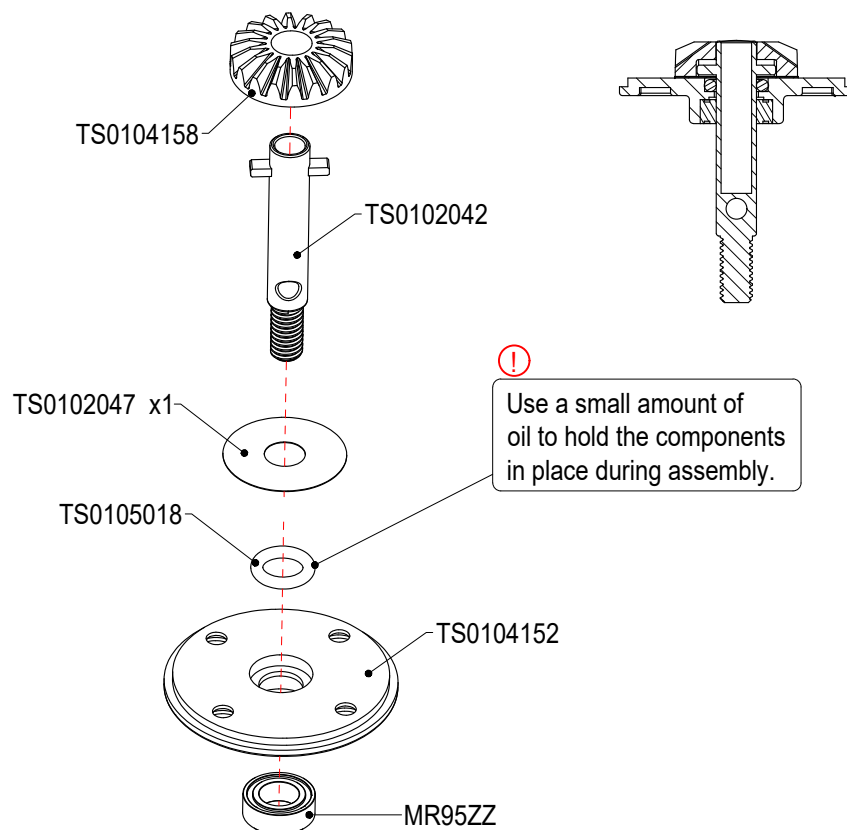
○ ($\phi 12 \times \phi 5.1 \times 0.1$)

TS0102047.....1



TS0102042.....1

25



◎ (φ3.5×φ8×0.1)
TS0102046.....4

Tighten the screws in a diagonal sequence.
Do not fully lock one side first.

Use 1.5g of oil or fill until the top of planet gears are covered. Do not overfill.

Silicone OIL
3000 cst

TS0102046 x4


 (ø5×ø7×0.1)
 TS0102053.....1

SIG2.508 x4

$$\text{Calculating FDR} = \frac{\text{Spur}}{\text{Pinion}}$$


TS0104155 x1



28 ~ 31
Kit Bag G



SG_M2.5X8.....2



($\phi 6.35 \times \phi 9.525 \times 3.175$)

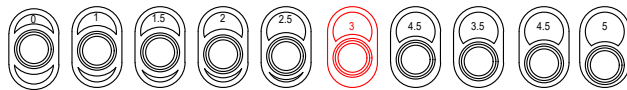
FR168ZZ.....2



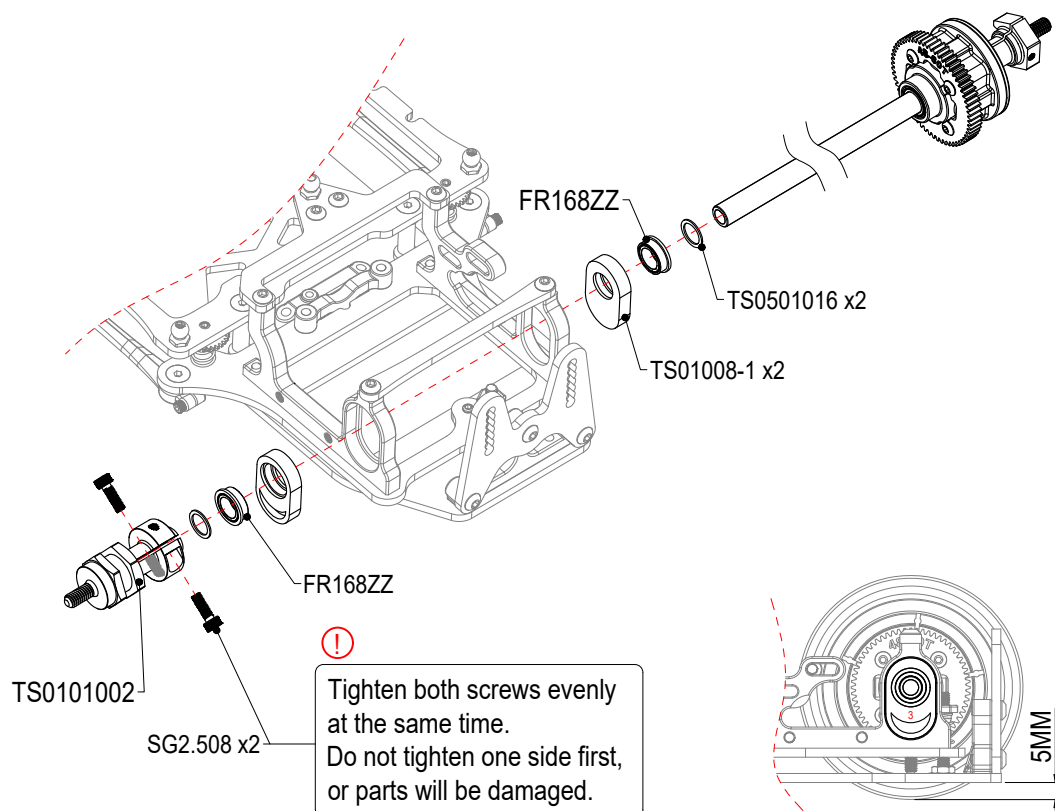
($\phi 6.4 \times \phi 8.4 \times 0.5$)

TS0501016.....2

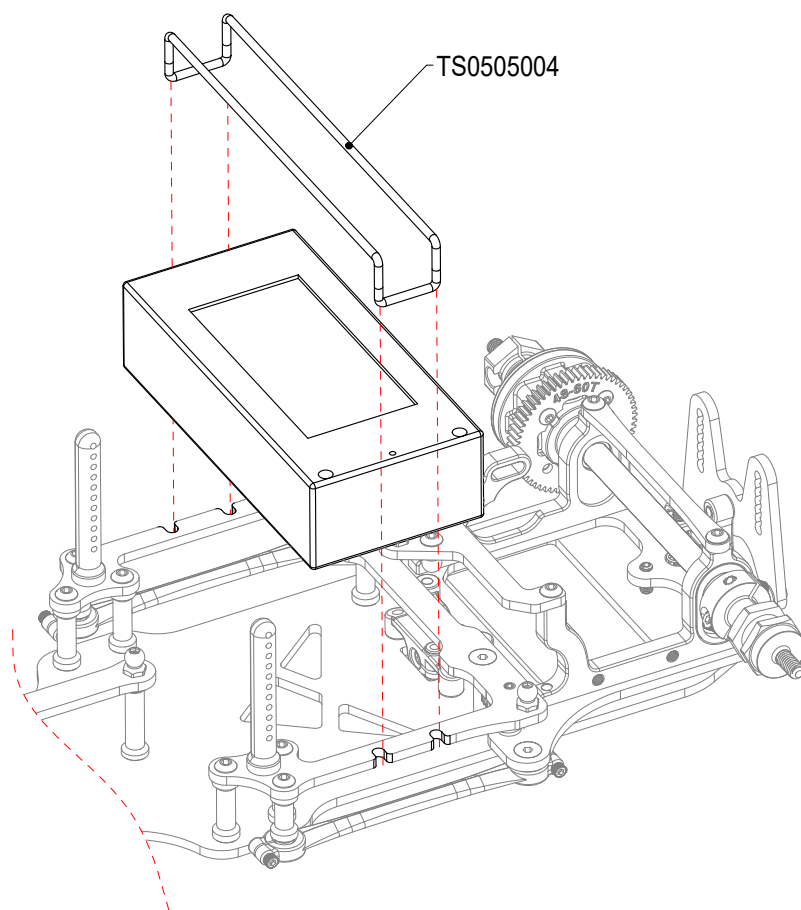
28



★ These offset bushings adjust the RIDE HEIGHT of the rear pod.
Make sure to use the SAME eccentric bushings on BOTH sides.



29





TS0104026.....4

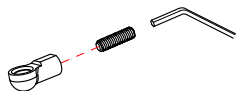


TS0104027.....2



SK_M3X10.....3

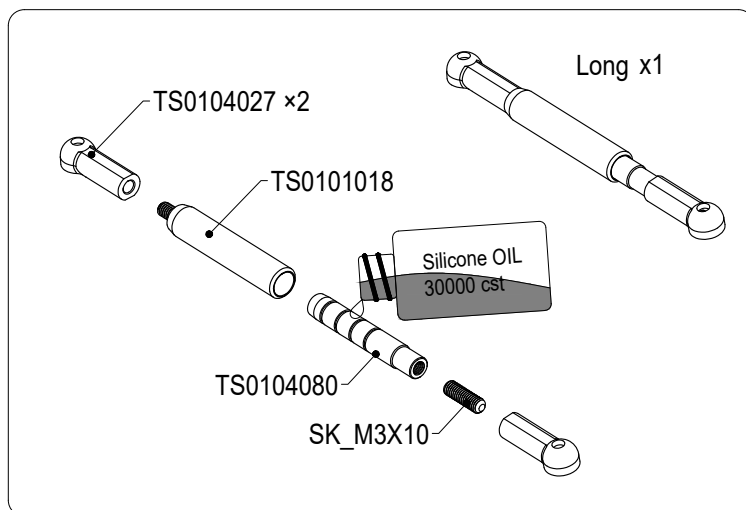
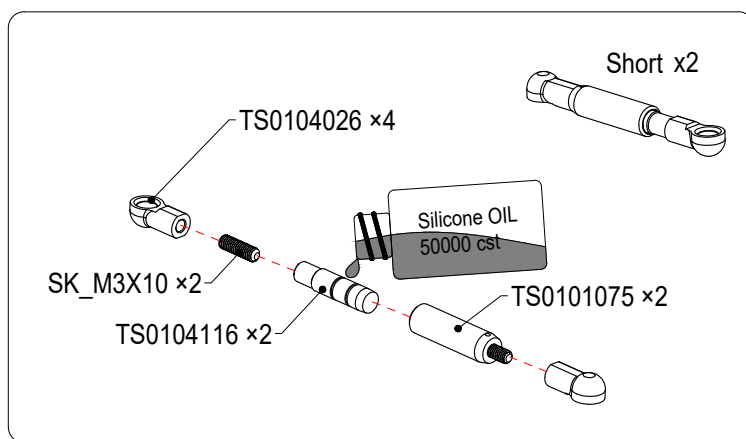
Roll damper



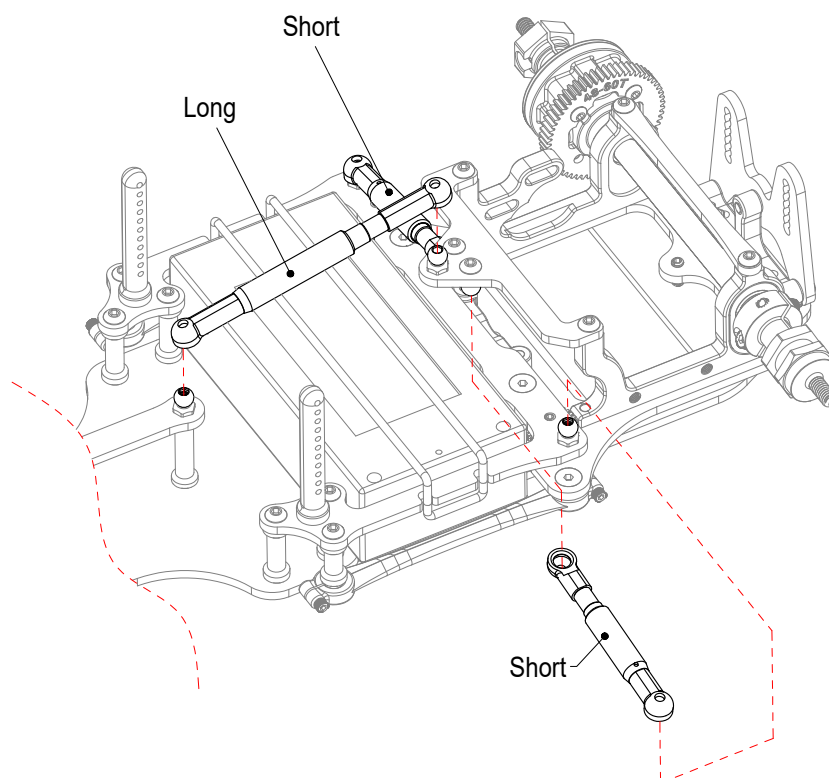
5mm



30

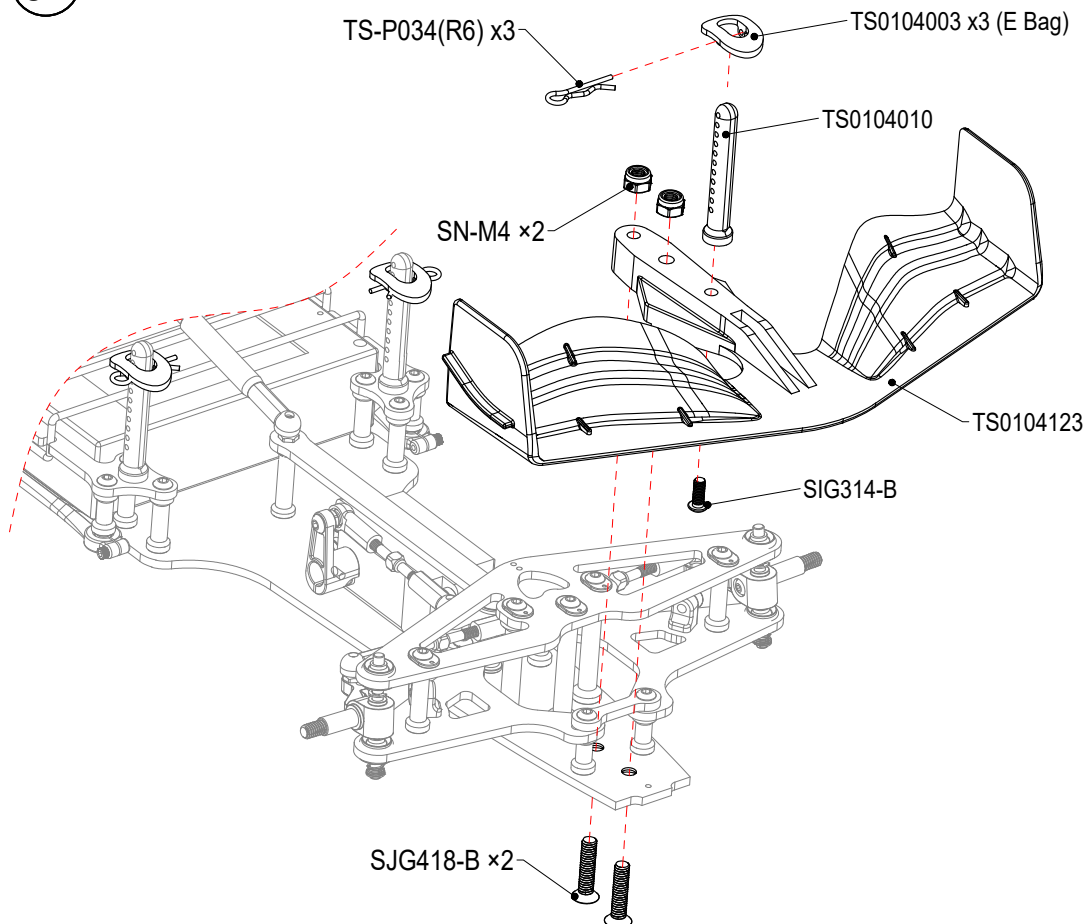


31



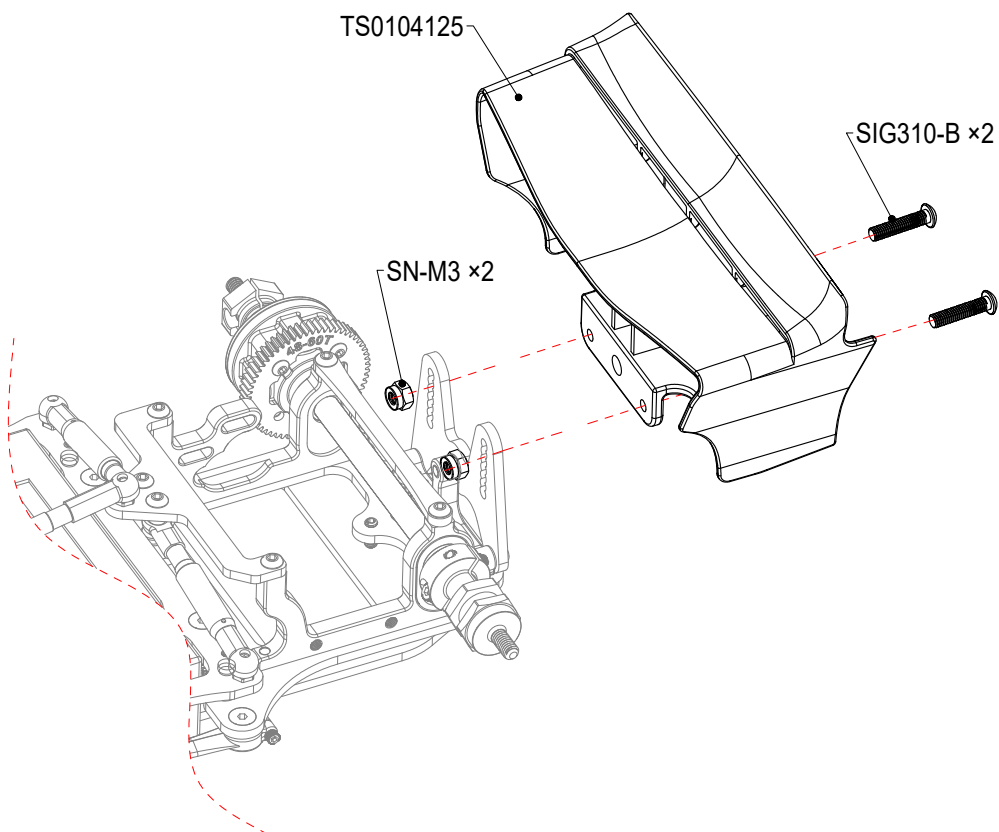
32

- (E Bag)
TS0104003.....3
- TS-P034 (R6) 3
- SJG_M4X18.....2
- SN_M4.....2
- SIG_M3X14.....1
- TS0104010.....1 (11K)



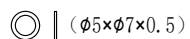
- SN_M3.....2
- SIG_M3X10.....2

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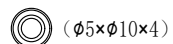




SN_M4.....2



TS0102018.....2

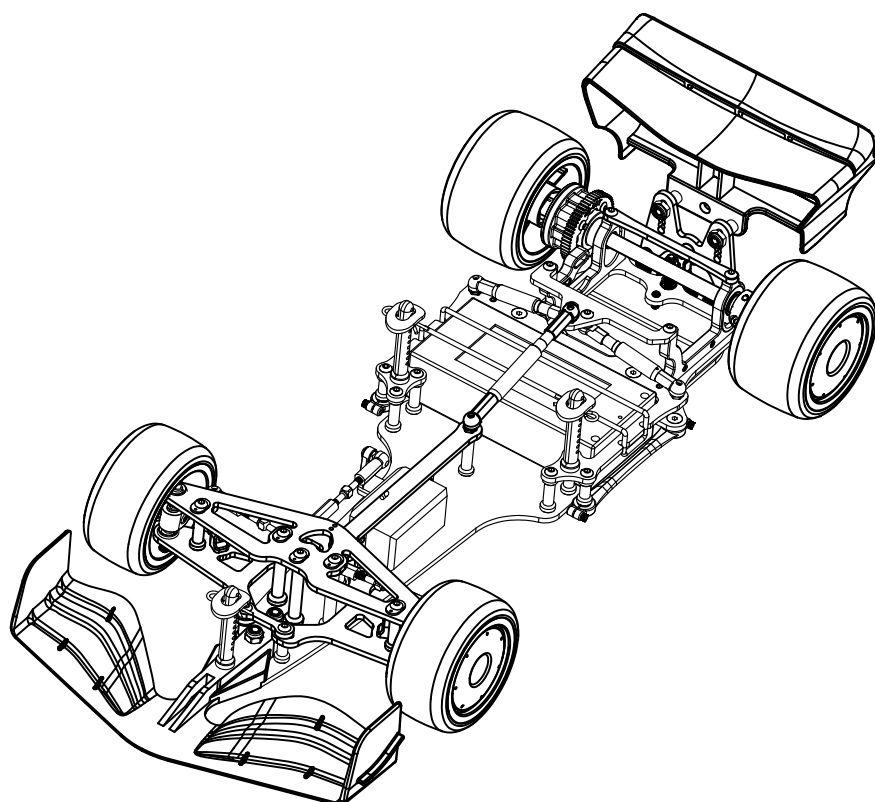
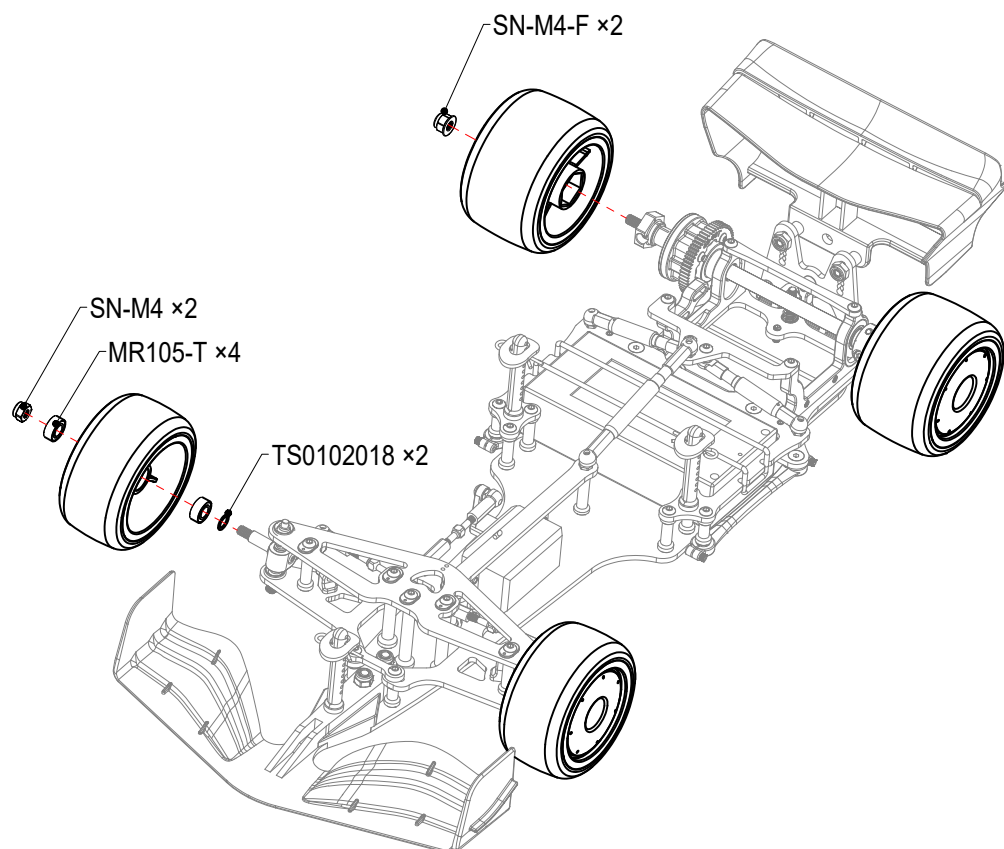


MR105-OR.....4



SN_M4-F.....2

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