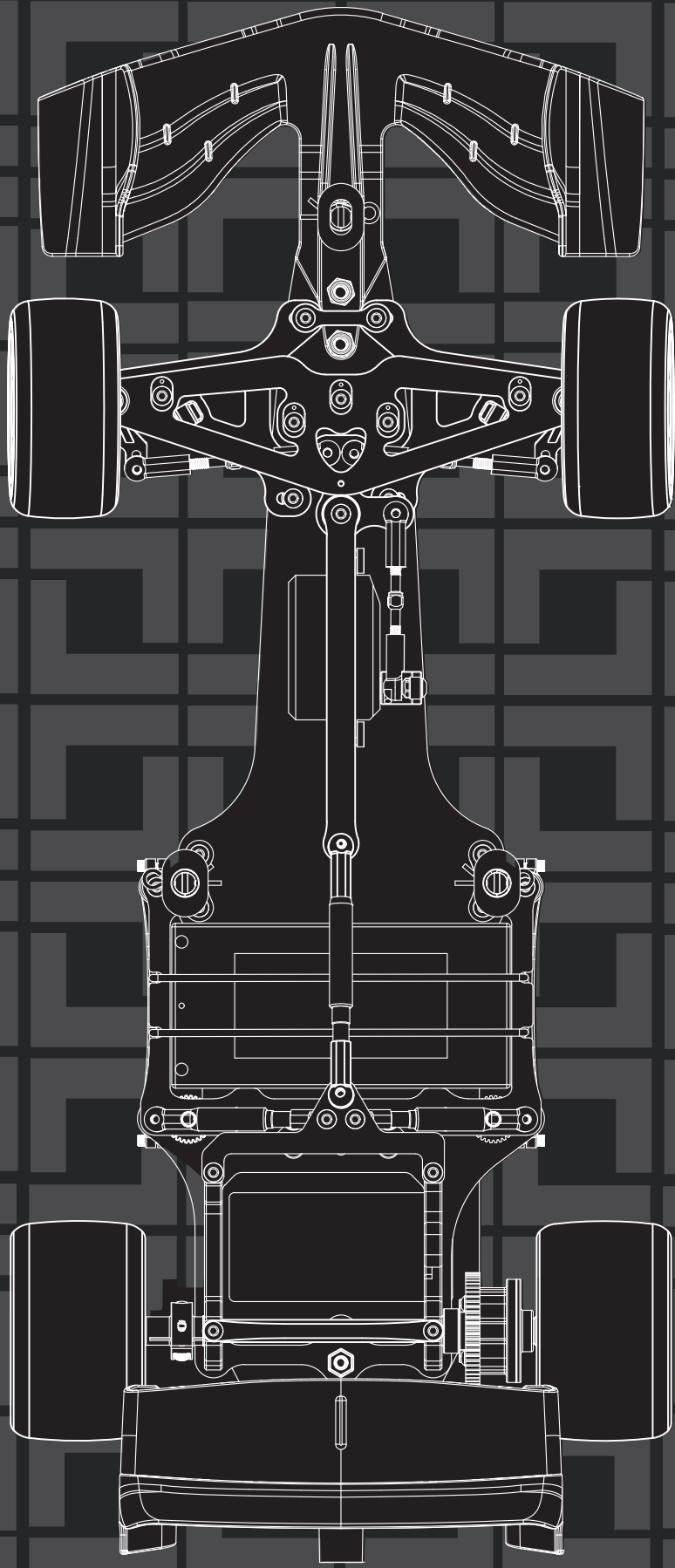


RS

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

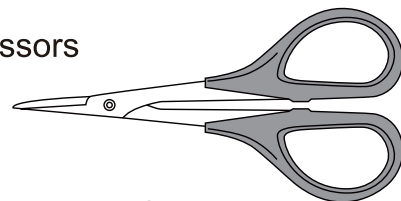
- 1.Place the R/C car on a stand so the wheels are off the ground.
- 2.Confirm that the speed controller switch is OFF,and connect the motor and battery
- 3.Extend the transmitter antenna and turn the switch ON. (It is unsafe to use a transmitter with low voltage.Make sure that the transmitter batteries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

ASSEMBLING TOOLS REQUIRED (NOT INCLUDED IN KIT)

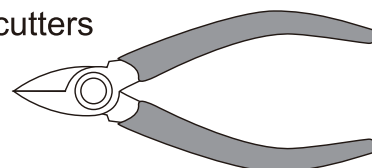
Scissors



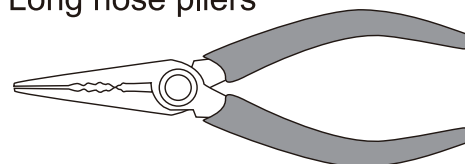
Modeling knife



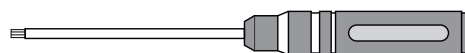
Side cutters



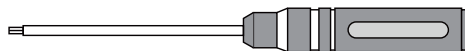
Long nose pliers



Hex wrench (1.5mm)



Hex wrench (2mm)



Tweezers



F1-180-V5CHASSIS SPECIFICATION

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

Cap

	M2.5x6	SJG306-B
	M3x6	SJG306-B
	M3x8	SJG308-B
	M3x25	SJG325-B
	M4x18	SJG418-B

Cap screw

	M1.6x4	SG1. 604-B
	M2.5x8	SG2. 508-B

E-Ring



E-ring2.0 0E-E2. 0-1

Screw

	M2.5x4	SIG2. 504-B
	M2.5x8	SIG2. 508-B
	M3x6	SIG304-B
	M3x6	SIG306-B
	M3x8	SIG308-B
	M3x14	SIG314-B

Grub screw

	M3x8	SK308-B
	M3x10	SK310-B

Lock nut

	M3	SN-M3-F
	M4	SN-M4-F

Ball bearing

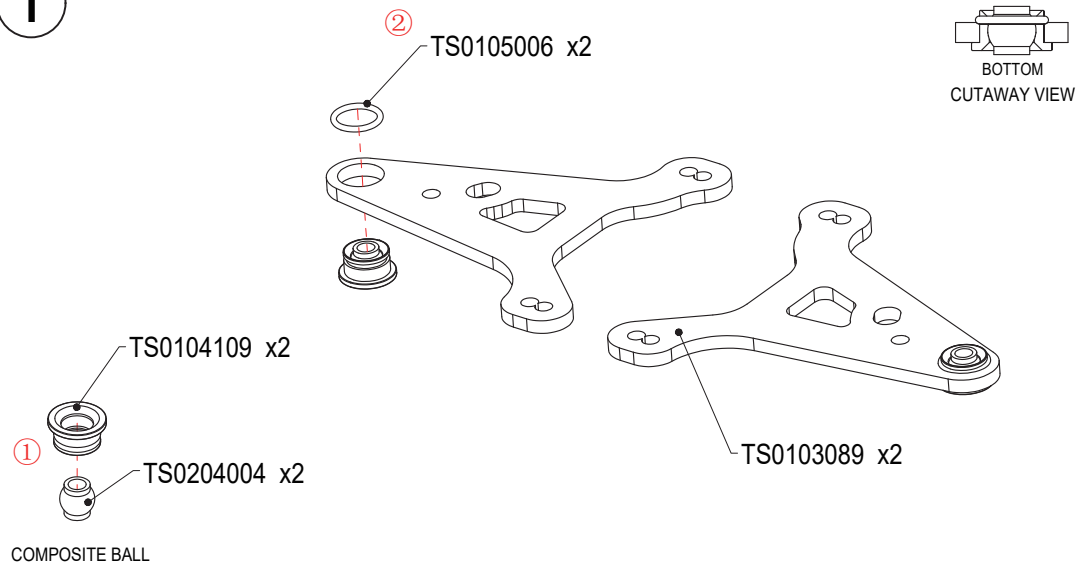
	5x9x3	MR95ZZ
	6.35x9.525x3.175	FR168ZZ
	6.35x9.525x3.175	R168-2RS
	5x10x4	MR105



1 ~ 6 Kit Bag A

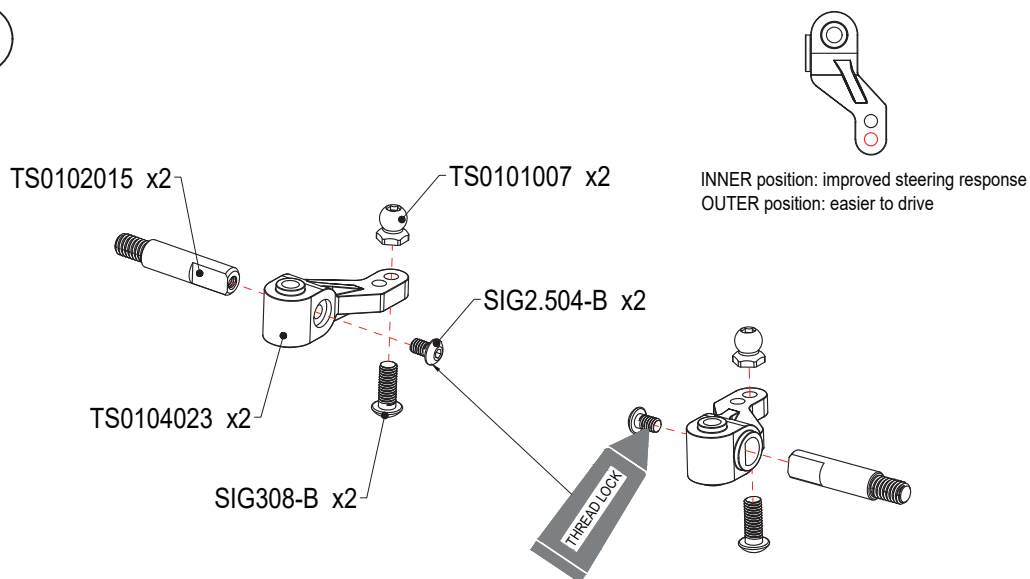
TS0104109.....2
TS0204004.....2
⊙ (O-RING ☒×☒×☐1)
TS0105006.....2

1



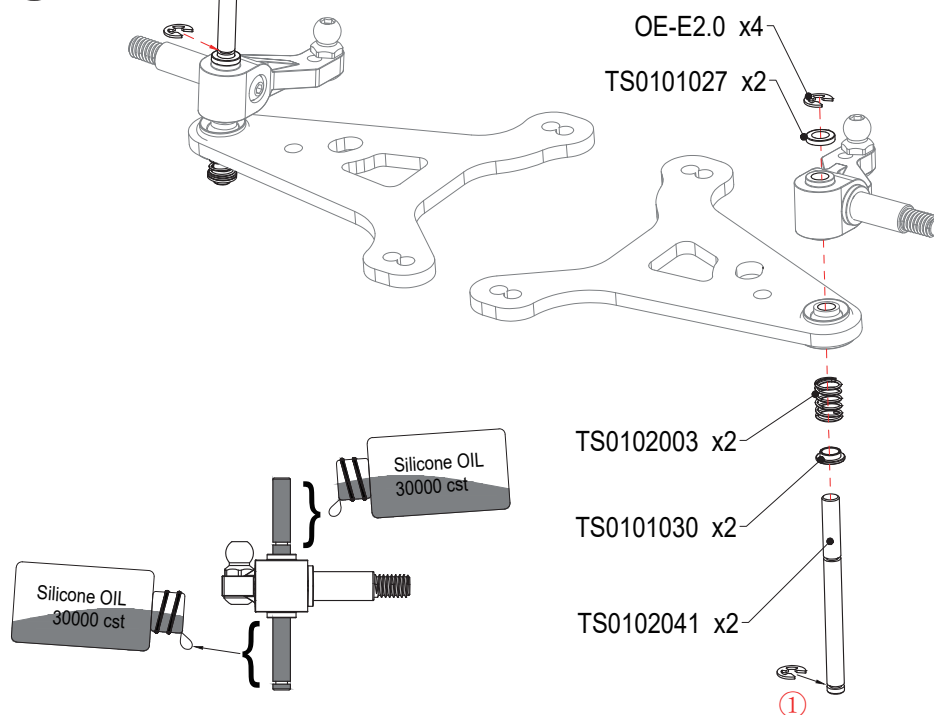
TS0101007.....2
TS0102015.....2
TS0104023.....2
SIG_M2.5X4.....2
SIG_M3X8.....2

2



TS0102041 (L=36.7mm).....2
TS0101030.....2
TS0102003.....2
OE_E2.0.....4
⊙ (Shim Ø3×Ø5.5×1)
TS0101027.....2

3





SJG_M3X6.....2

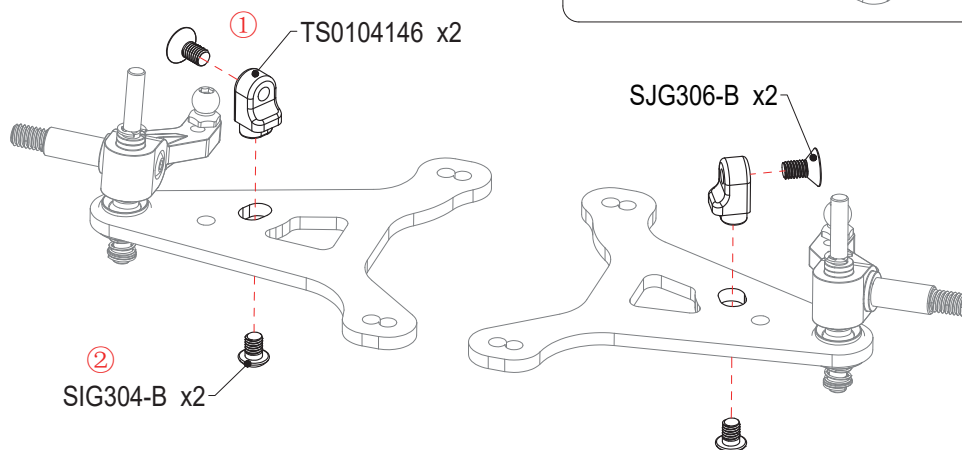
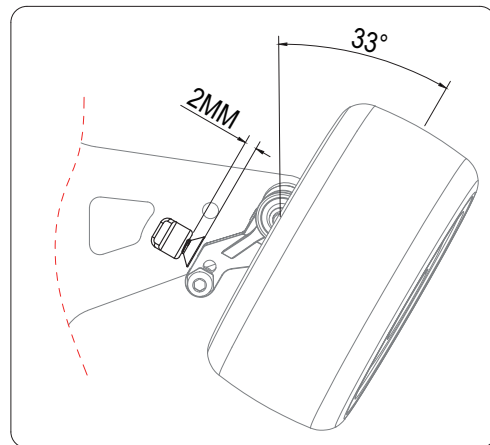


SIG_M3X4.....2



TS0104146.....2

4



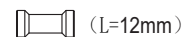
SJG_M3X8.....4



SIG_M3X6.....2

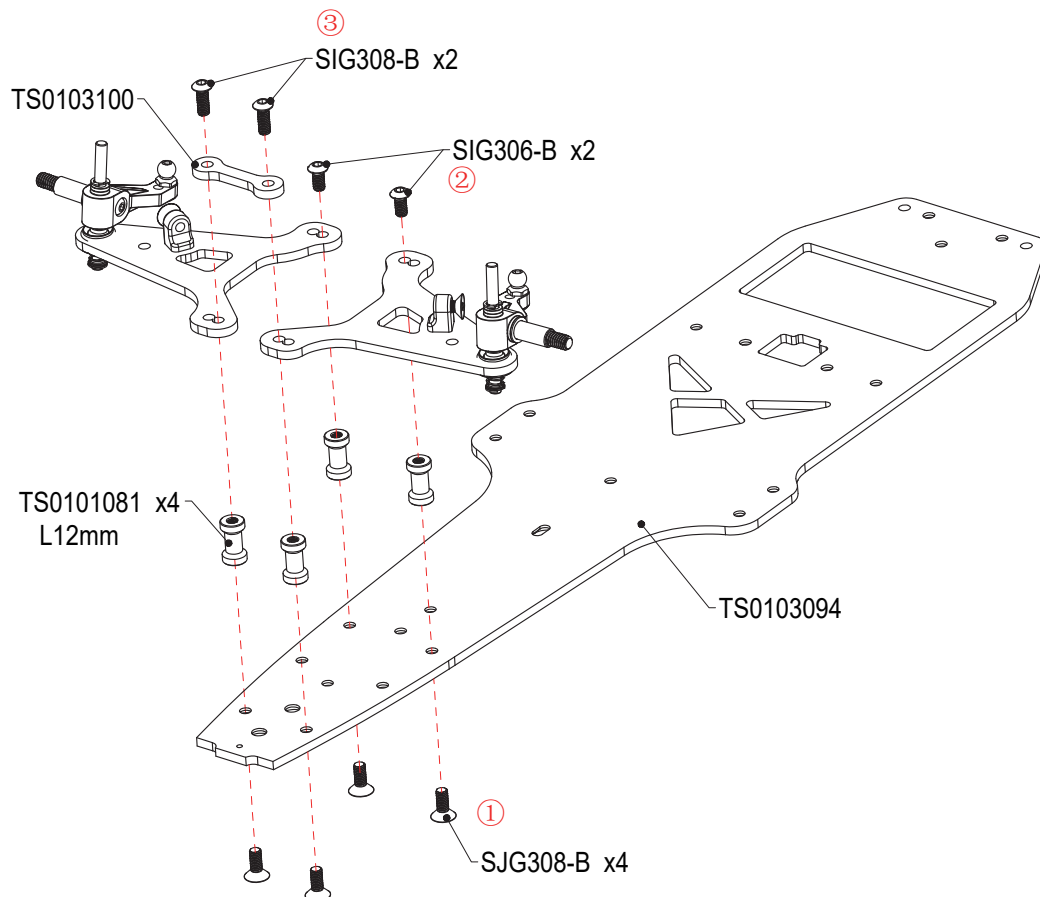


SIG_M3X8.....2





TS0101081.....4


5




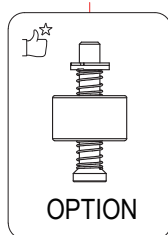
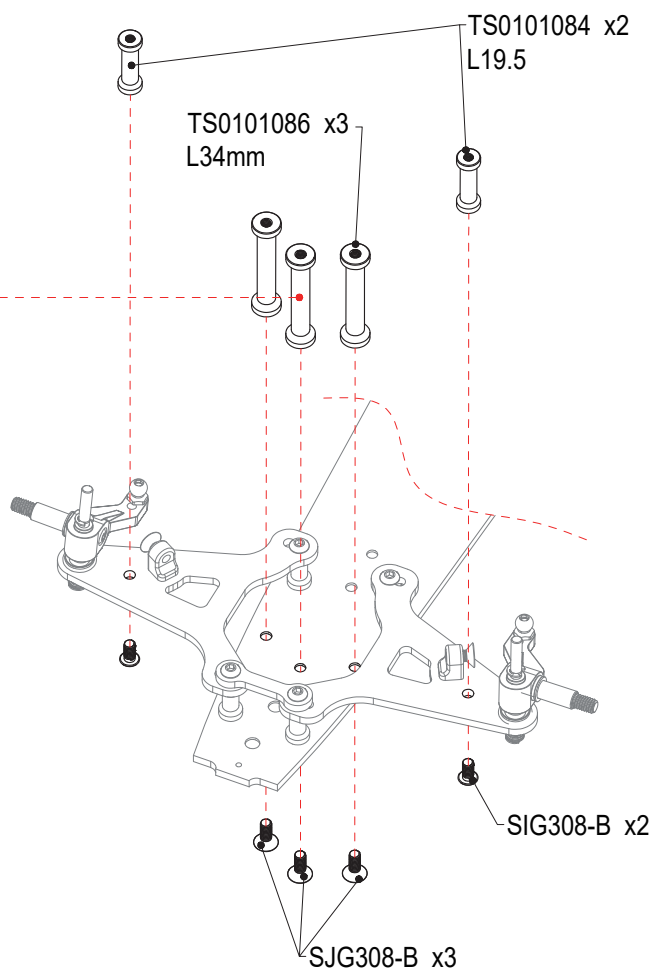
6

 SJG_M3X8.....3

 SIG_M3X8.....2

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






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



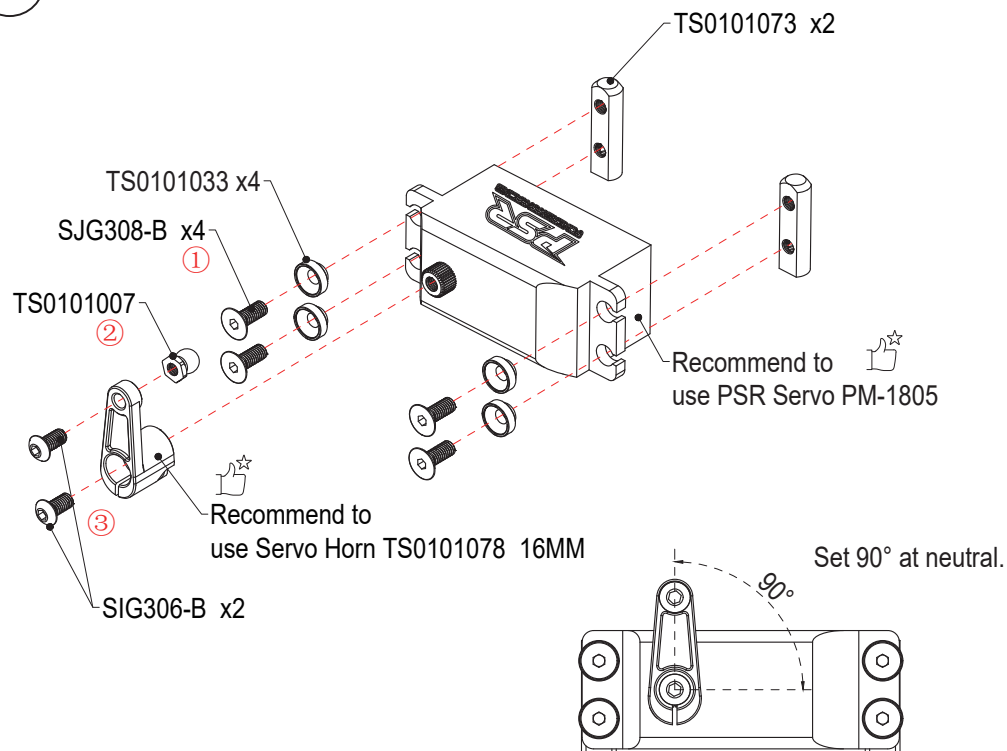
TS01268 Mass Damper
Reduce the effect of bumps on the car.







7 ~ 10
Kit Bag B

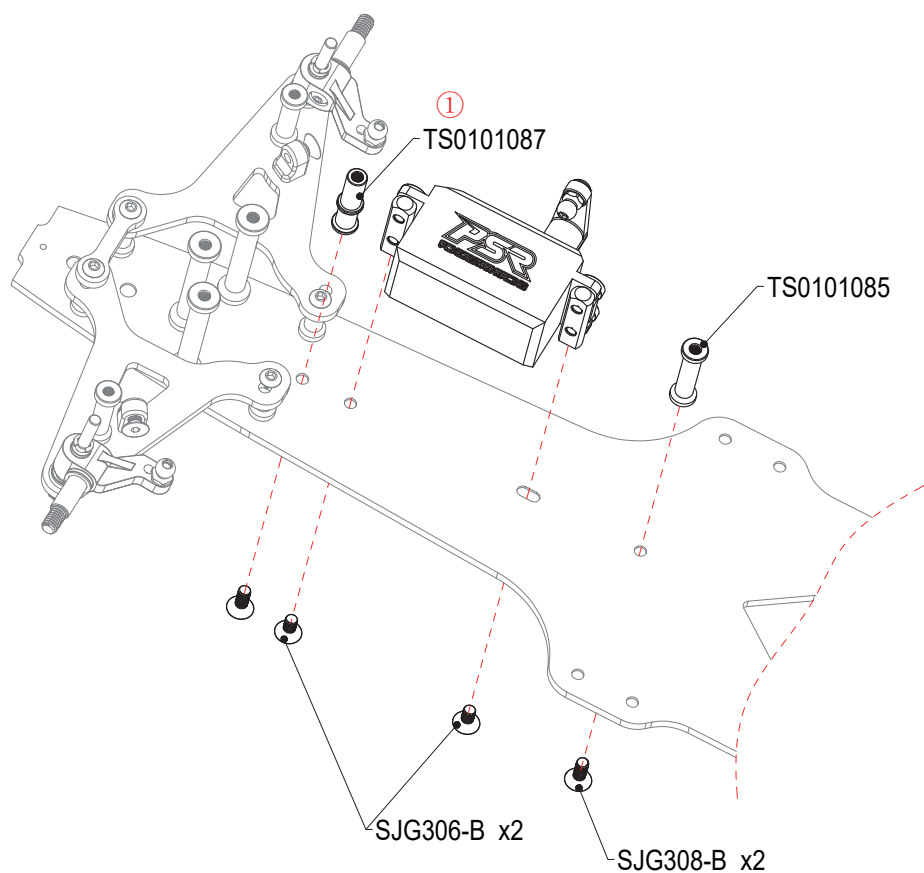
	SIG_M3X6.....2
	SJG_M3X8.....4
	TS0101073.....2
	TS0101033.....4
	TS0101007.....1

7



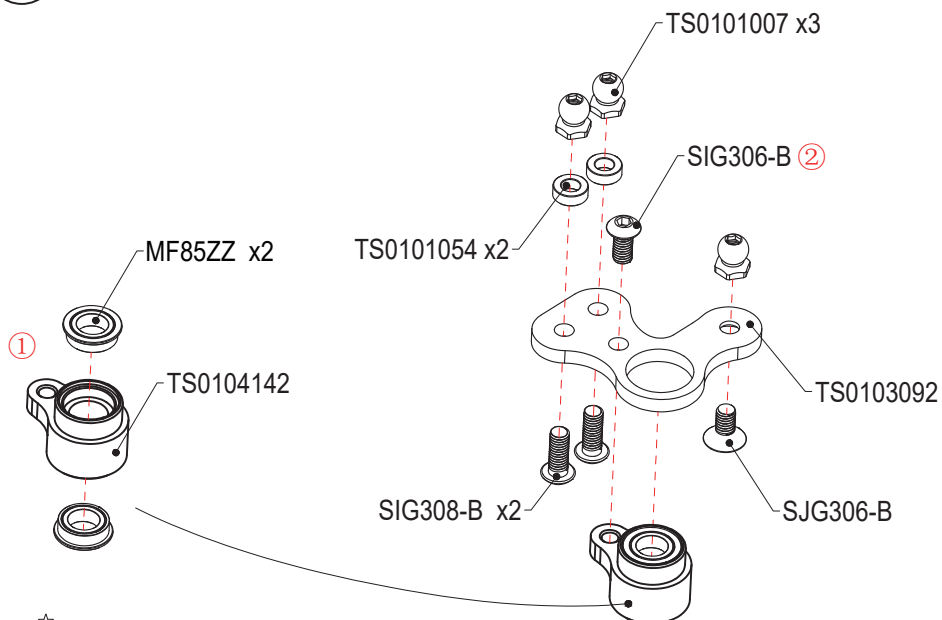
8


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






-  SIG_M3X6.....1
-  SIG_M3X8.....2
-  SJG_M3X6.....1
-  (5×8×2.5)
MF85ZZ.....2
-  TS0101007.....3
-  (Shim Ø3×Ø5.5×2)
TS0101054.....2

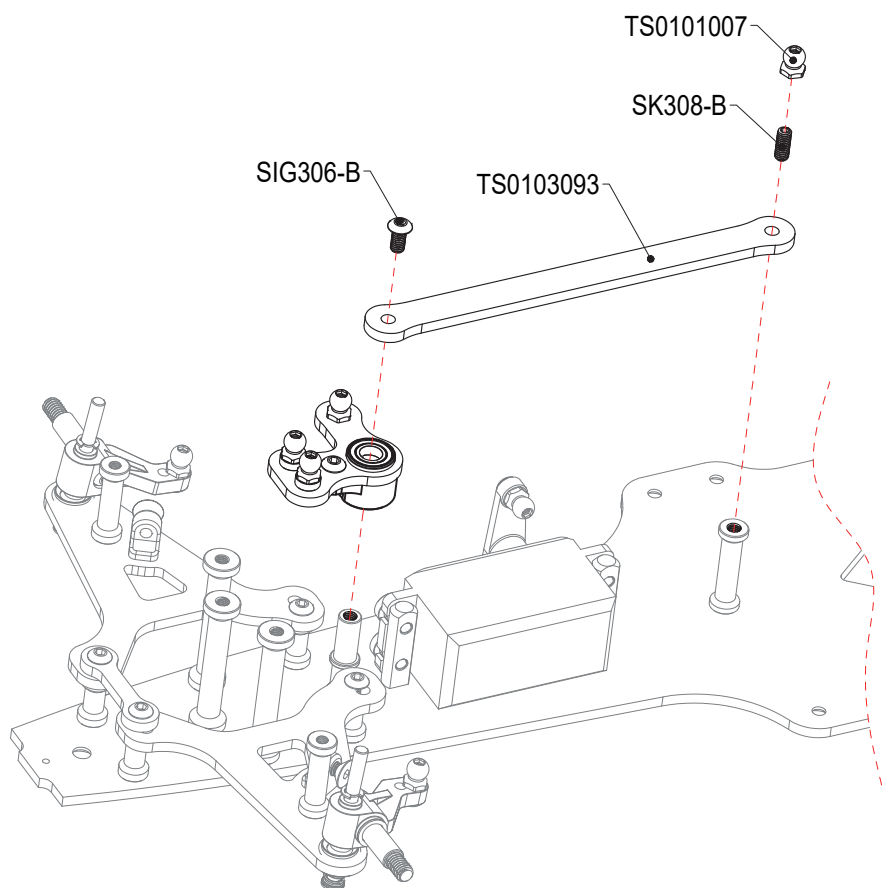
9



	TS0104142	Plastic	INCLUDED
	TS0101089	Aluminum	OPTION

-  SIG_M3X6.....1
-  SK_M3X8.....1
-  TS0101007.....1

10



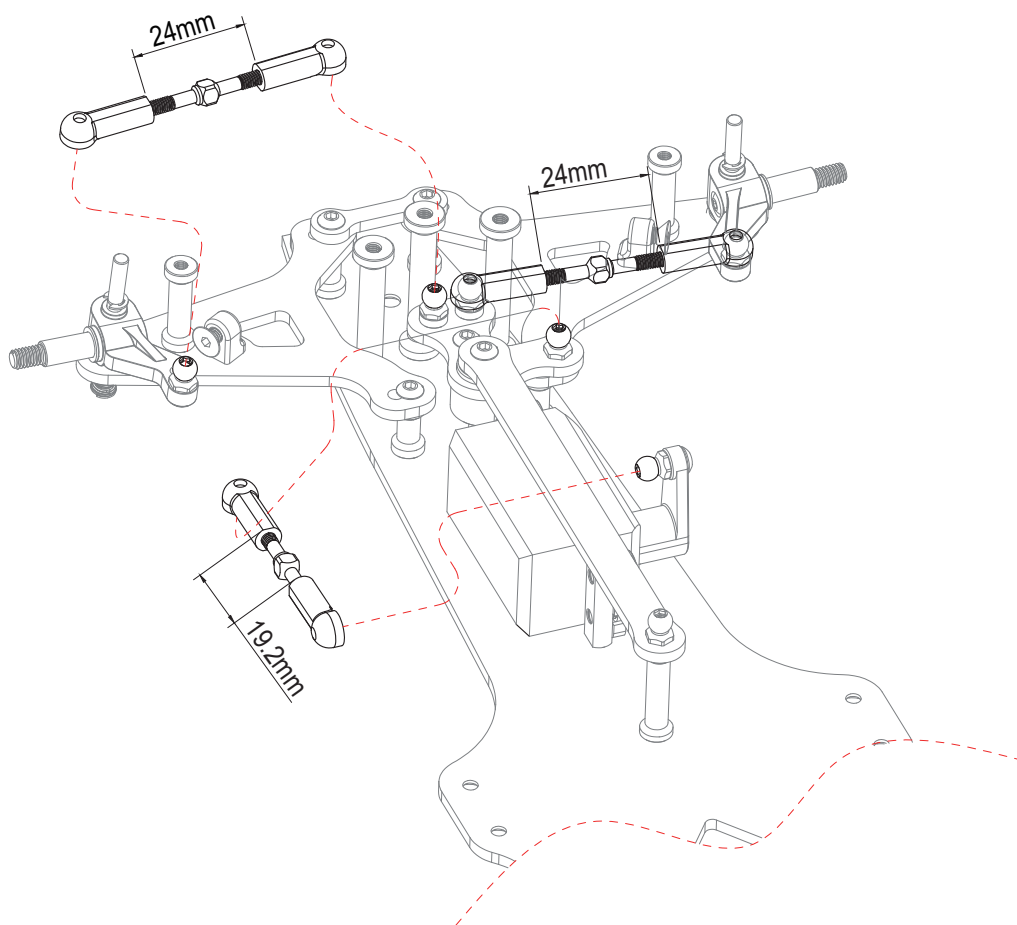
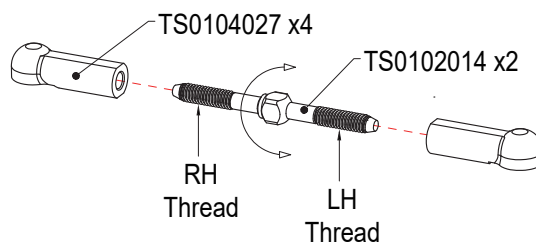
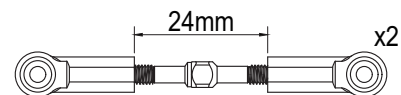
 (L=35mm)

TS0102014.....3

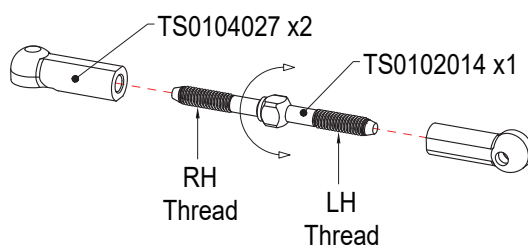
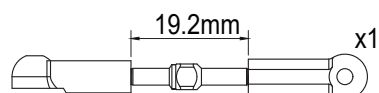









TS0104027.....6

Steering Link.
Make 1.

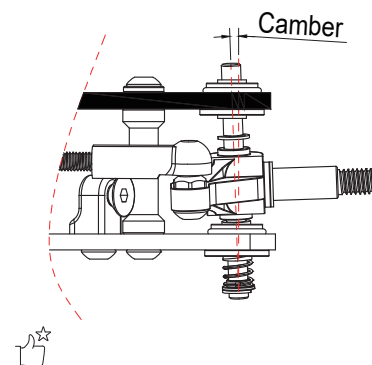
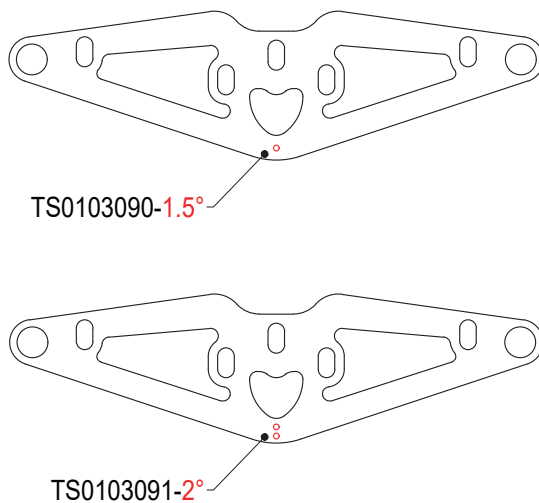
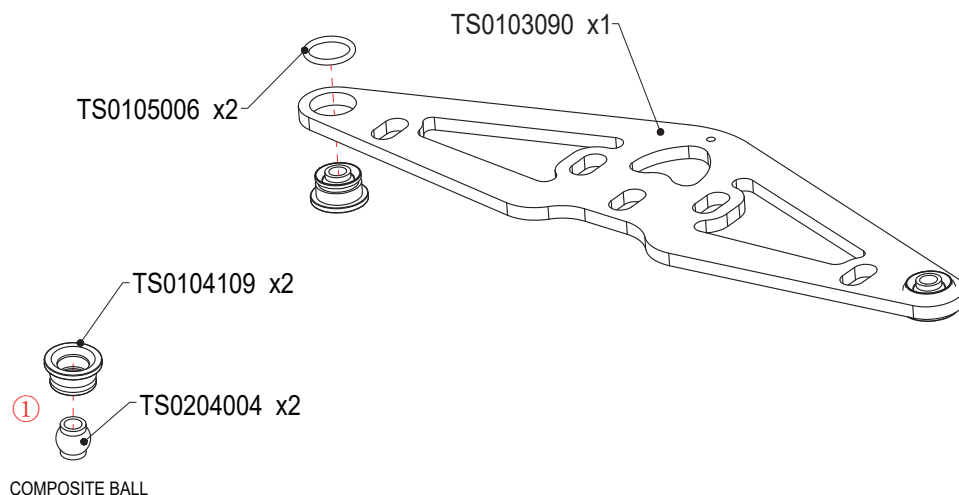
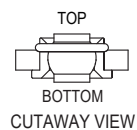


Steering Link.
Make 2.






	TS0104109.....2
	TS0204004.....2
 (O-RING  x  x )	
	TS0105006.....2

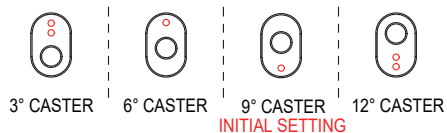
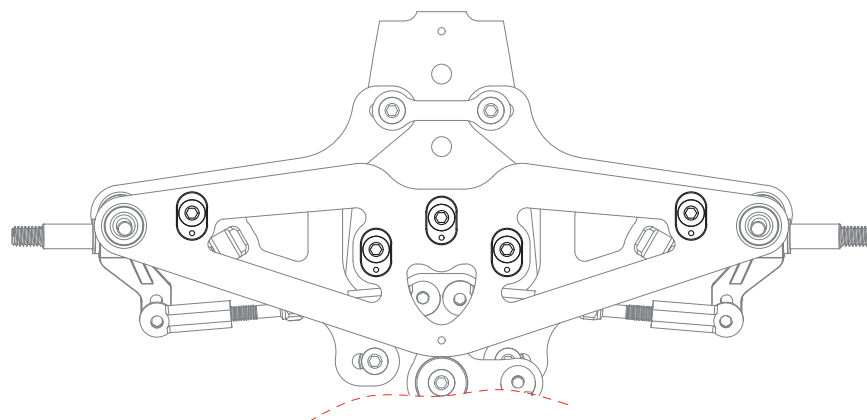
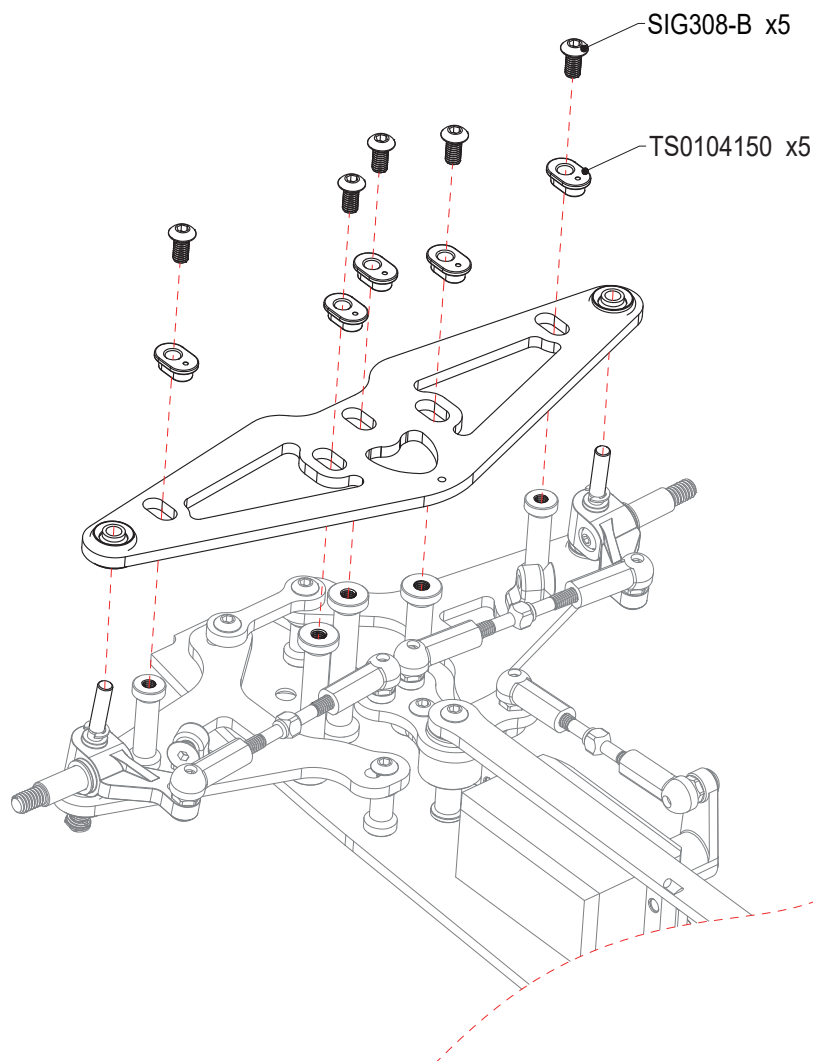
12



Camber		
TS0103090	1.5°	INCLUDED
TS0103091	2°	OPTION

	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.




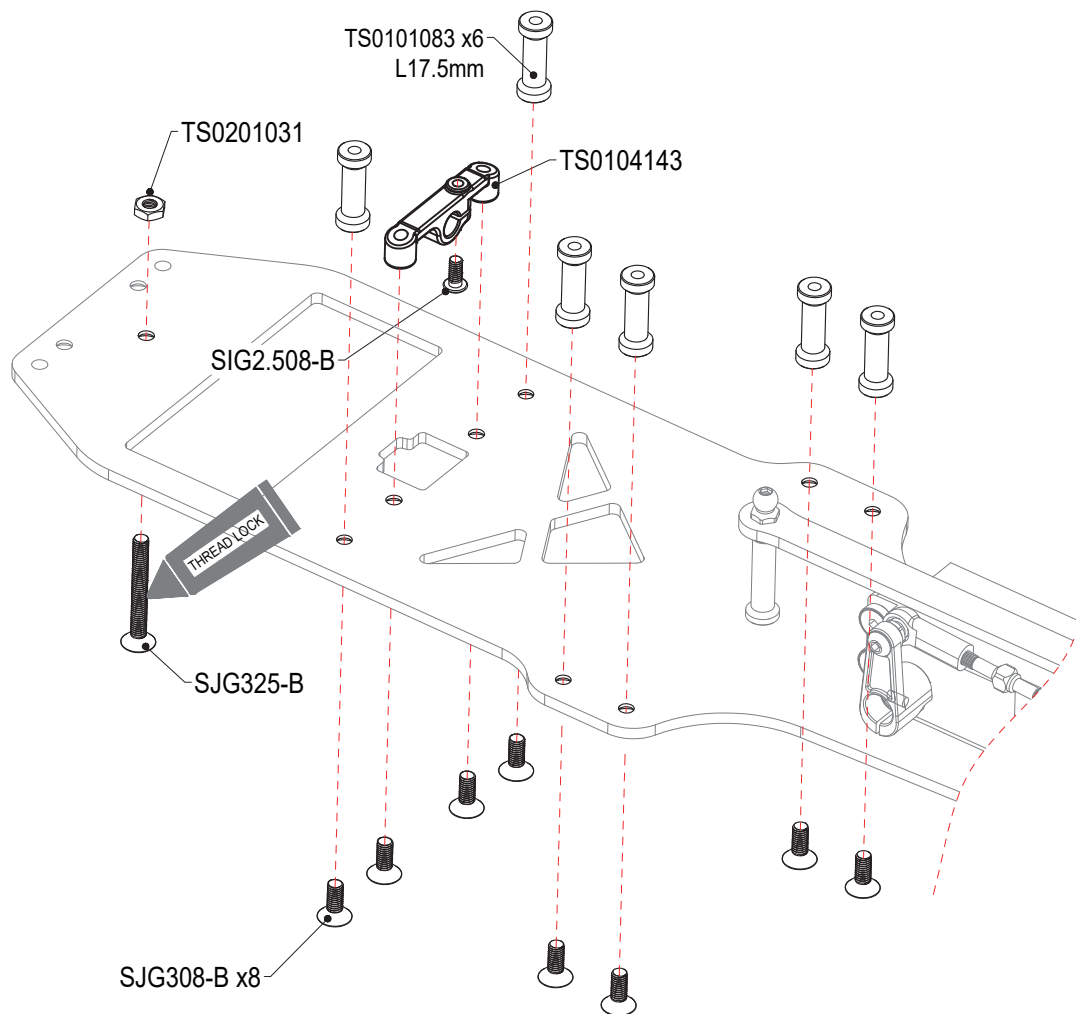
14 ~ 17
Kit Bag D

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

14

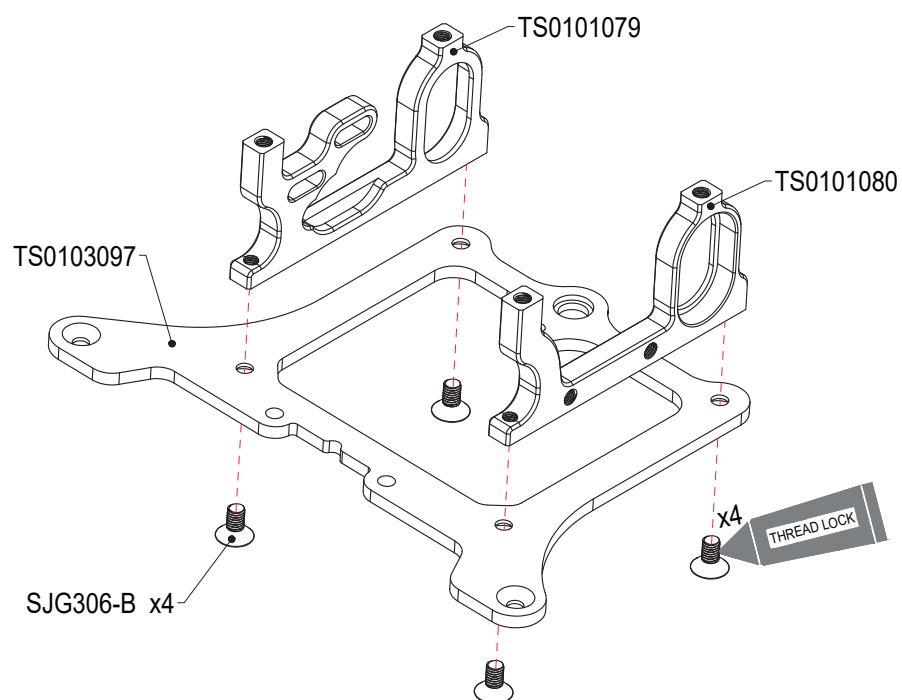







	TS0104143	Plastic	INCLUDED
	TS0101090	Aluminum	OPTION



- SJG_M3X6.....4


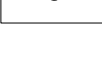
15

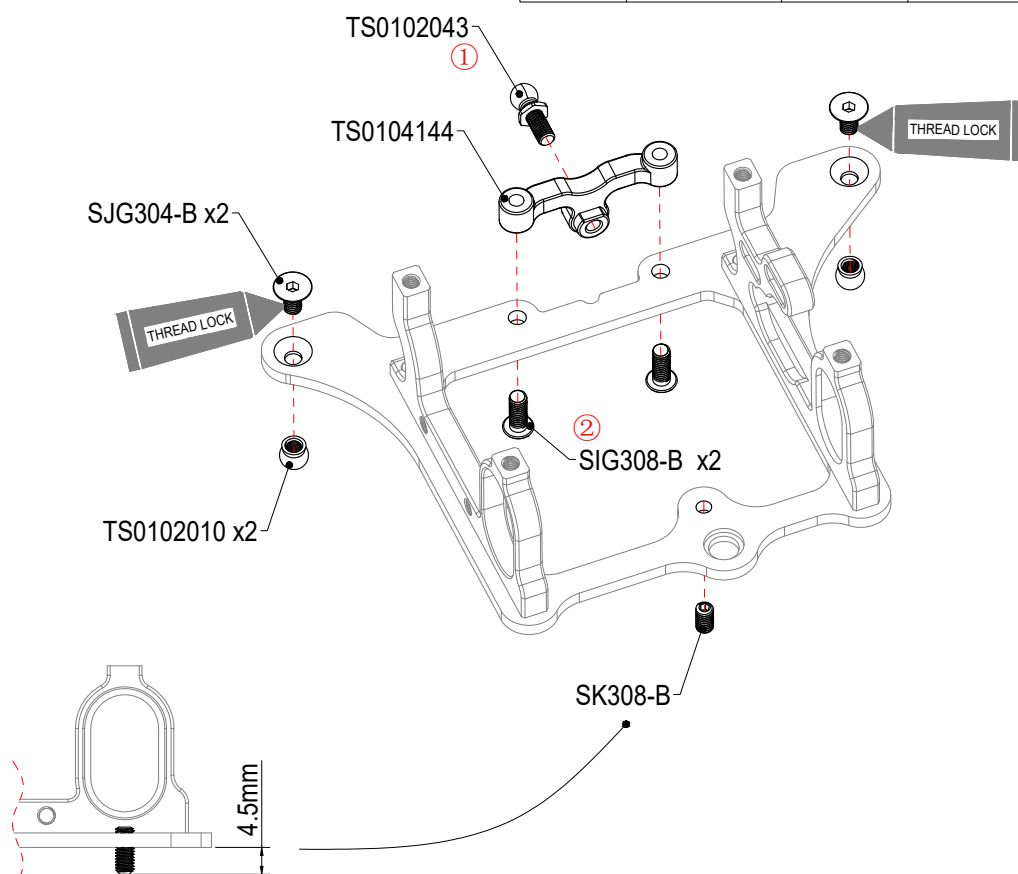






-  TS0102043.....1
-  SJG_M3X4.....2
-  SIG_M3X8.....2
-  SK_M3X8.....1
-  TS0102010.....2

16

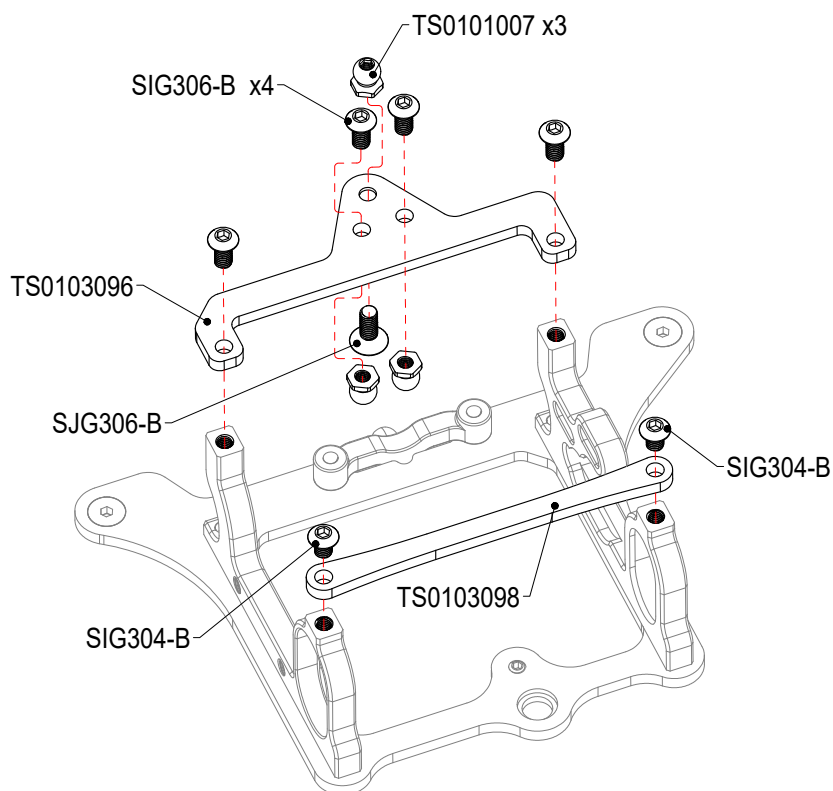


	TS0104144	Plastic	INCLUDED
	TS0101091	Aluminum	OPTION

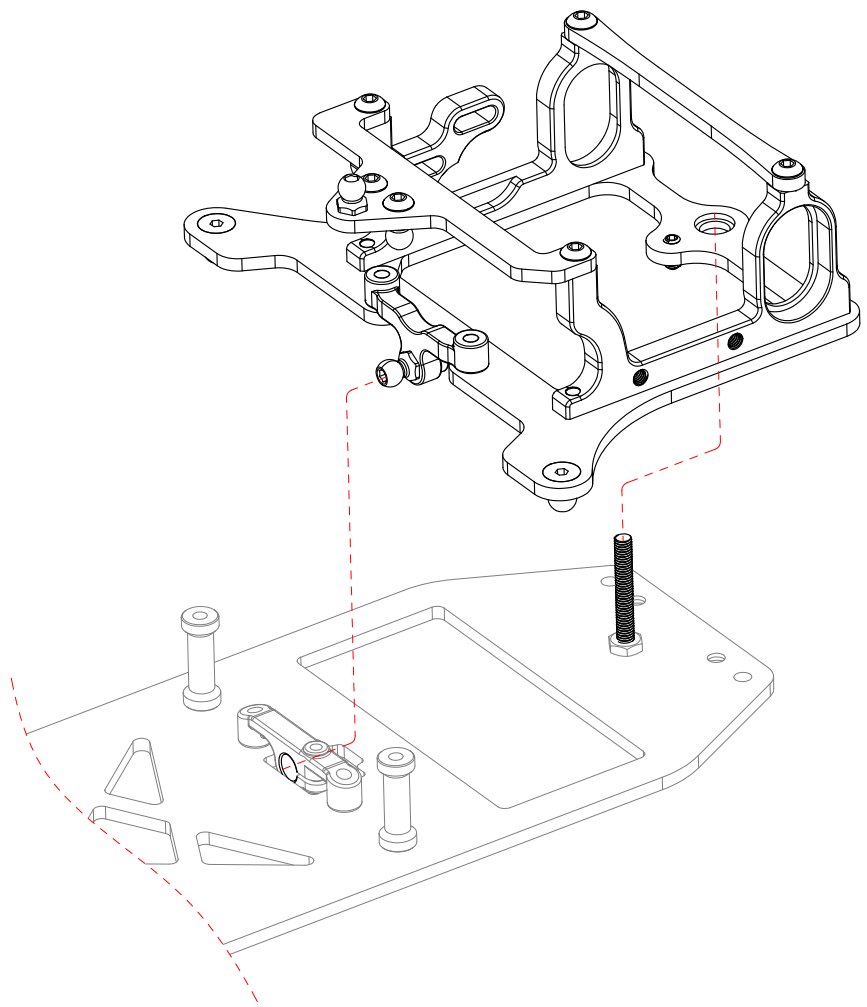


-  SIG_M3X4.....2
-  SIG_M3X6.....4
-  SJG_M3X6.....1
-  TS0101007.....3





17

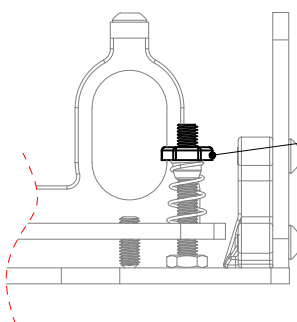
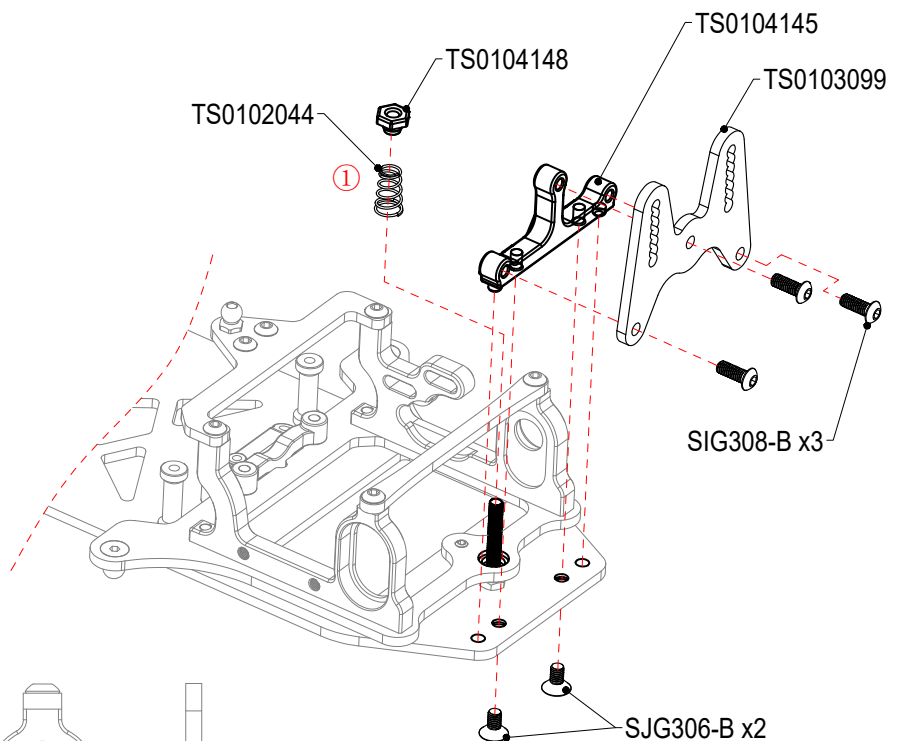


18




19

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



Adjust the nut until the rear height reaches 5mm.







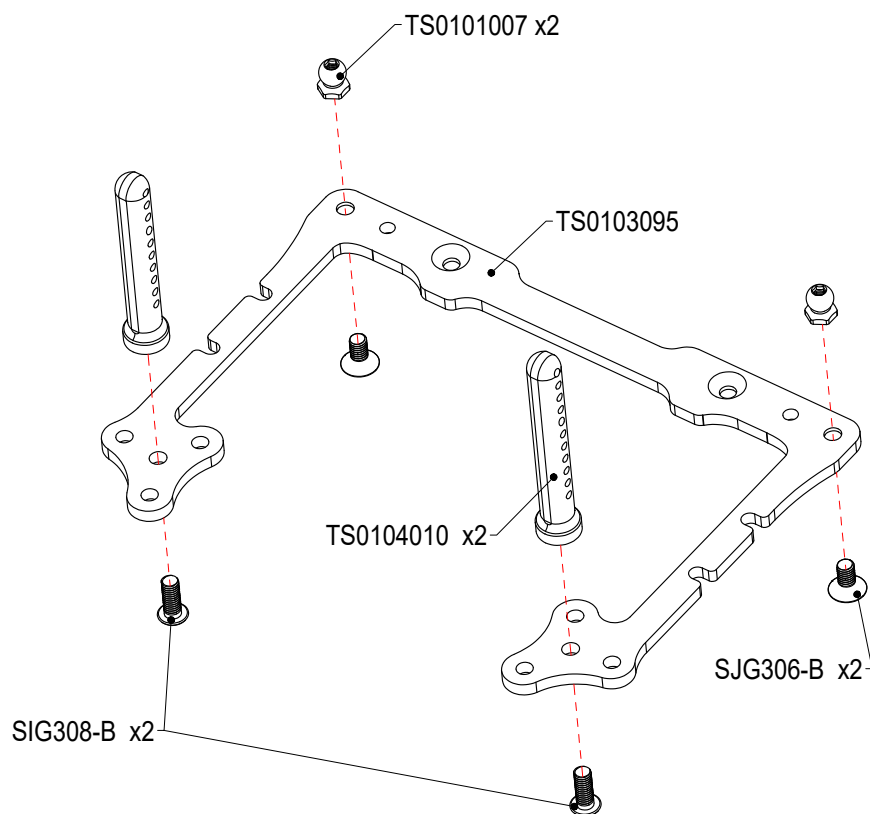
	TS0104145	Plastic	INCLUDED
	TS0101092	Aluminum	OPTION









20 ~ 23
Kit Bag E

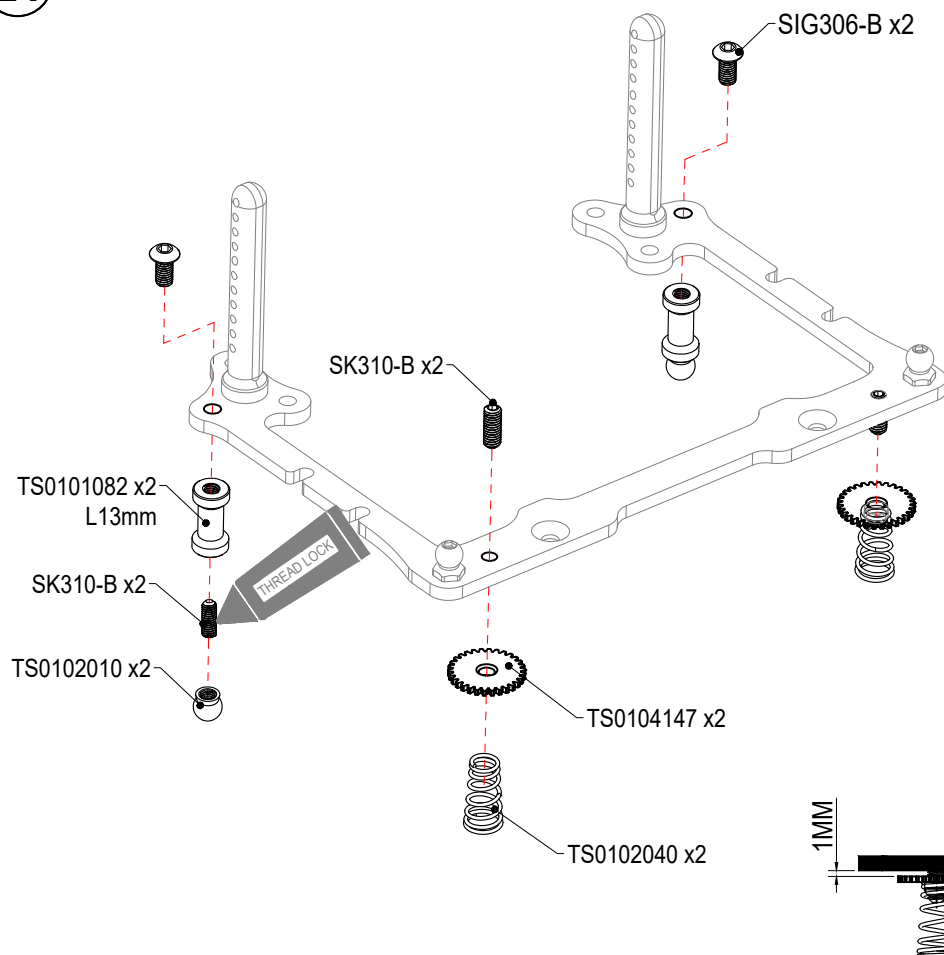
20

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



21

-  SIG_M3X6.....2
-  TS0102040.....2
-  TS0104147.....2
-  SK_M3X104
-  (L=13mm)
TS0101082.....2
-  TS0102010.....2



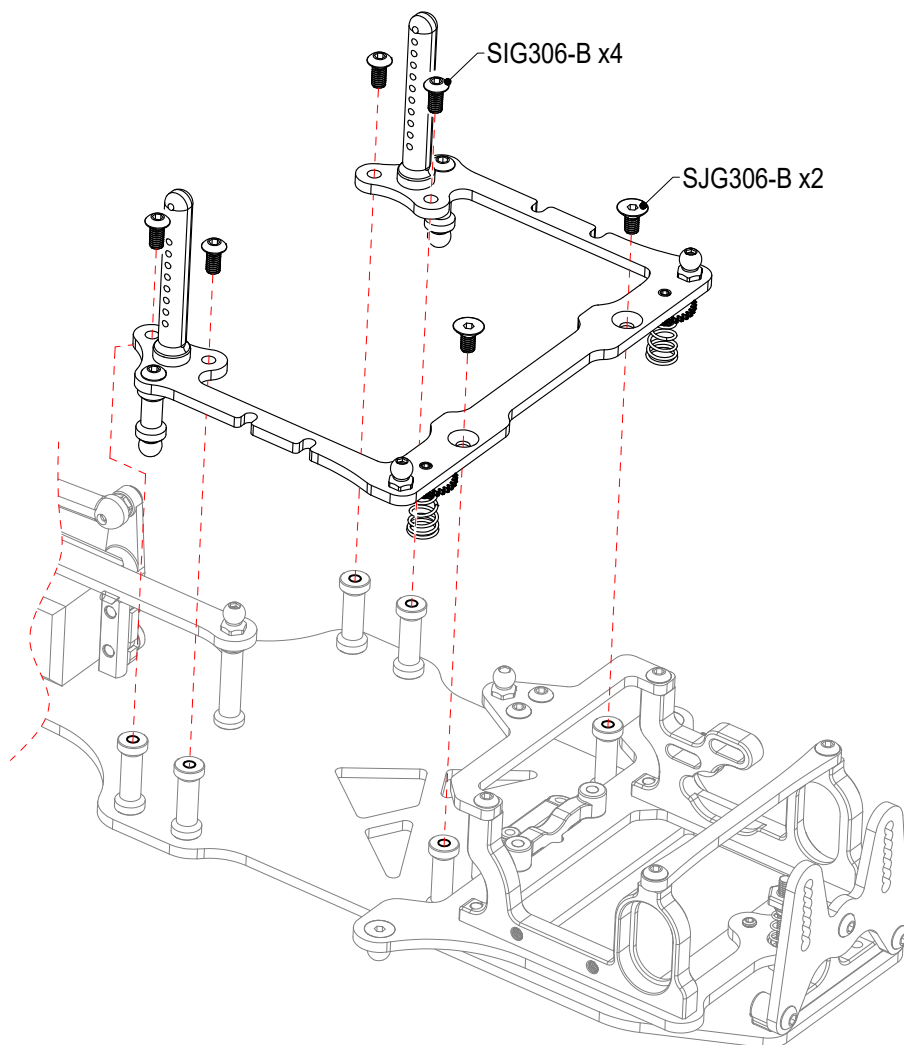


SIG_M3X6.....4



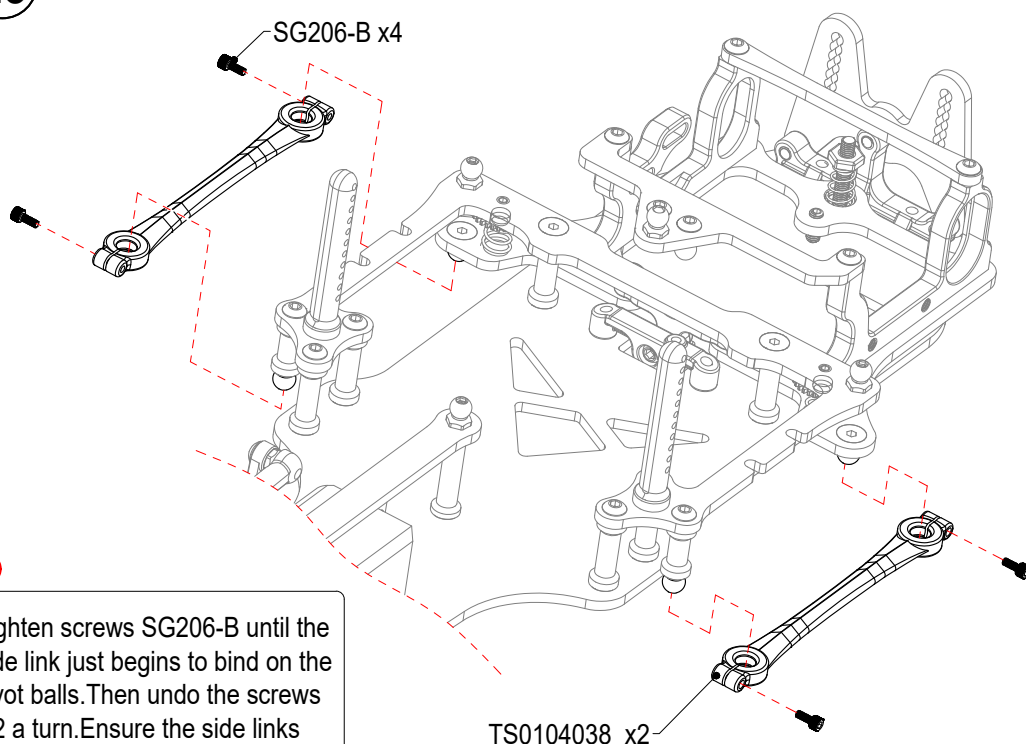
SJG_M3X6.....2

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 $\phi 5 \times \phi 8 \times \phi 1.5$)

TS0105016.....1

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

R168-2RS.....1

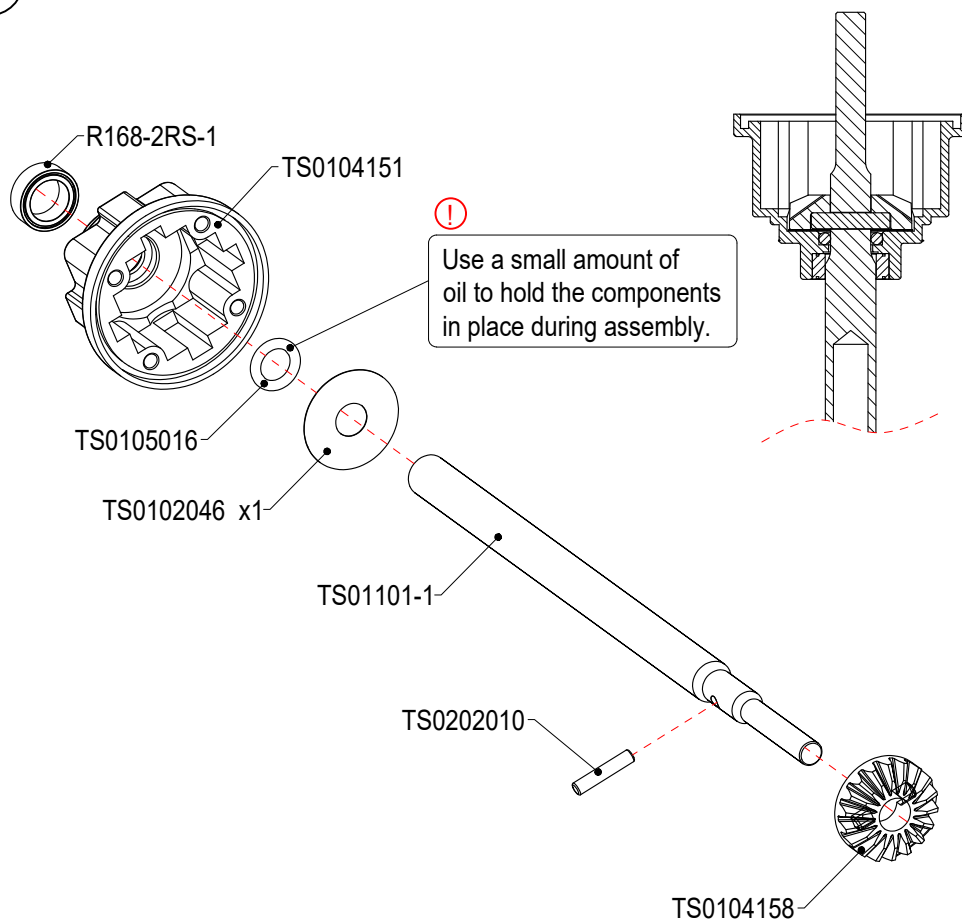
○ ($\phi 12 \times \phi 5.1 \times 0.1$)

TS0102046.....1

▬ ($\phi 2 \times 10$)

TS0202010.....1

24



○ (O ring $\phi 5 \times \phi 8 \times \phi 1.5$)

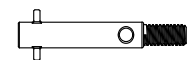
TS0105016.....1

⊗ ($\phi 5 \times \phi 9 \times 3$)

MR95ZZ.....1

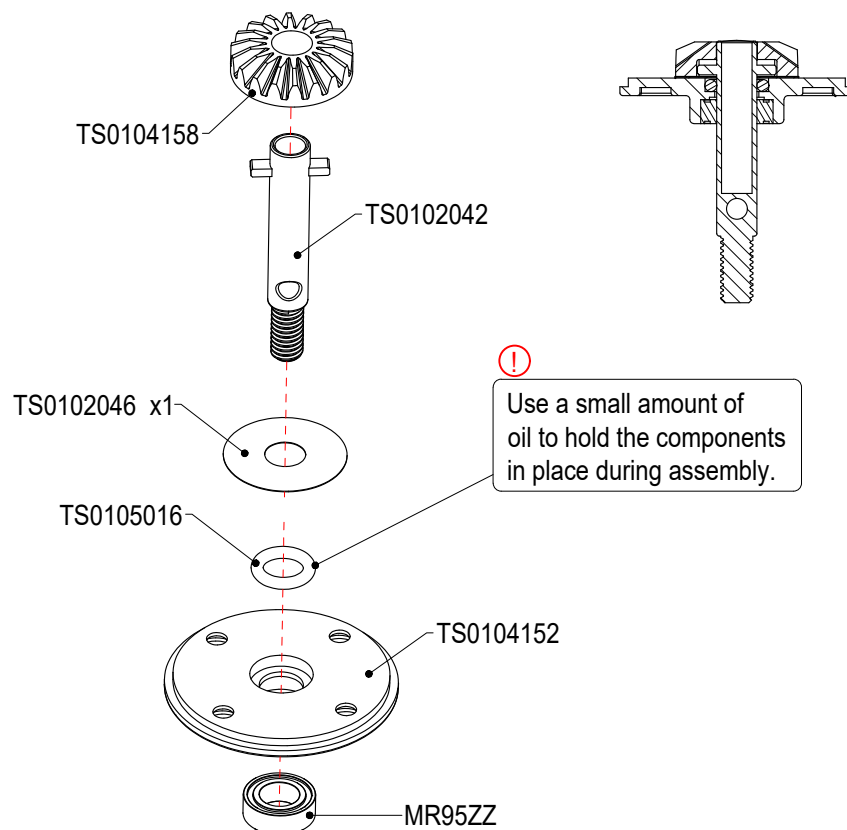
○ ($\phi 12 \times \phi 5.1 \times 0.1$)

TS0102046.....1



TS0102042.....1

25



SIG_M2.5X6.....4

TS0105015.....1
(O ring $\phi 25 \times \phi 27 \times 1$)

TS0102047.....4
($\phi 3.5 \times \phi 8 \times 0.1$)

26

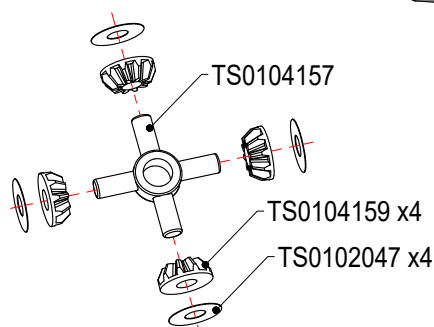
① SJG2.506-B x4

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

①

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

Silicone OIL
3000 cst



TS0105015

TS0104157

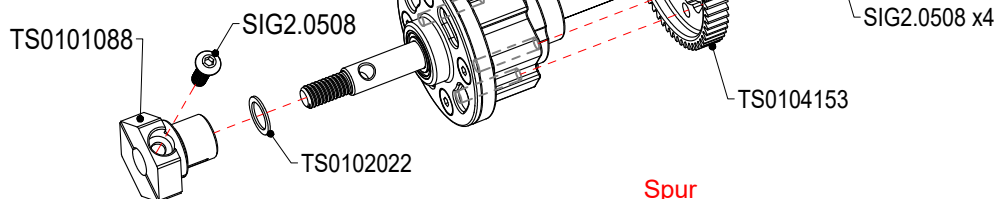
TS0104159 x4

TS0102047 x4

SIG_M2.5X8.....5

TS0102022.....1
($\phi 5 \times \phi 7 \times 0.2$)

27



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

Gera Chart 48DP

Pinion

48dp	23T	24T	25T	26T	27T	28T	29T	30T	31T	32T	33T	34T	35T
60T					2.22	2.14	2.07	2.00	1.94	1.88	1.82	1.76	1.71
64T	2.78	2.67	2.56	2.46	2.37	2.29	2.21	2.13	2.06	2.00	1.94	1.88	1.83

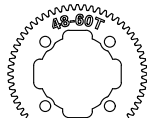
Spur

Gera Chart 64DP

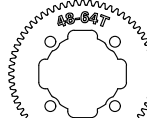
Pinion

64dp	30T	31T	32T	33T	34T	35T	36T	37T	38T	39T	40T	41T	42T
80T							2.22	2.16	2.11	2.05	2.00	1.95	1.90
88T	2.93	2.84	2.75	2.67	2.59	2.51	2.44	2.38	2.32	2.26	2.20	2.15	2.10

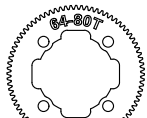
Spur



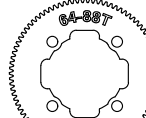
TS0104153 x1



TS0104154 x1



TS0104156 x1



TS0104155 x1



28 ~ 31
Kit Bag G



SG_M2.5X8.....2



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

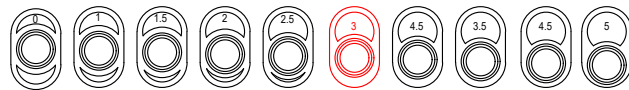
FR168ZZ.....2



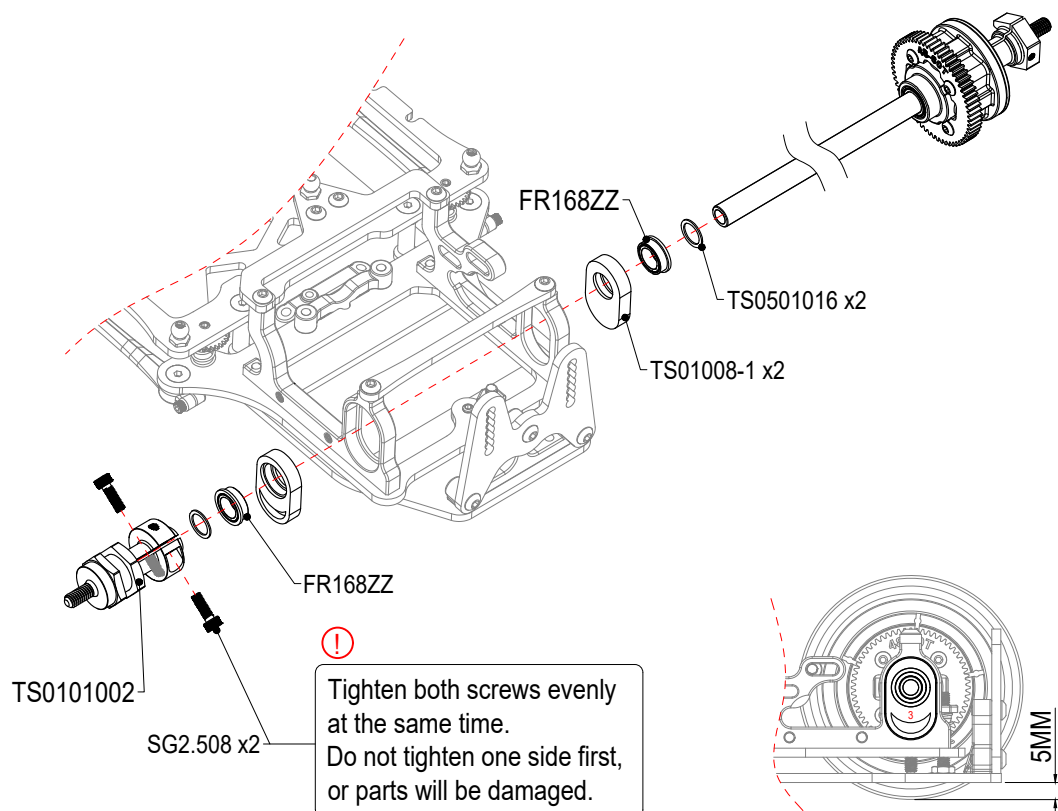
($\phi 6.4 \times \phi 8.4 \times 0.5$)

TS0501016.....2

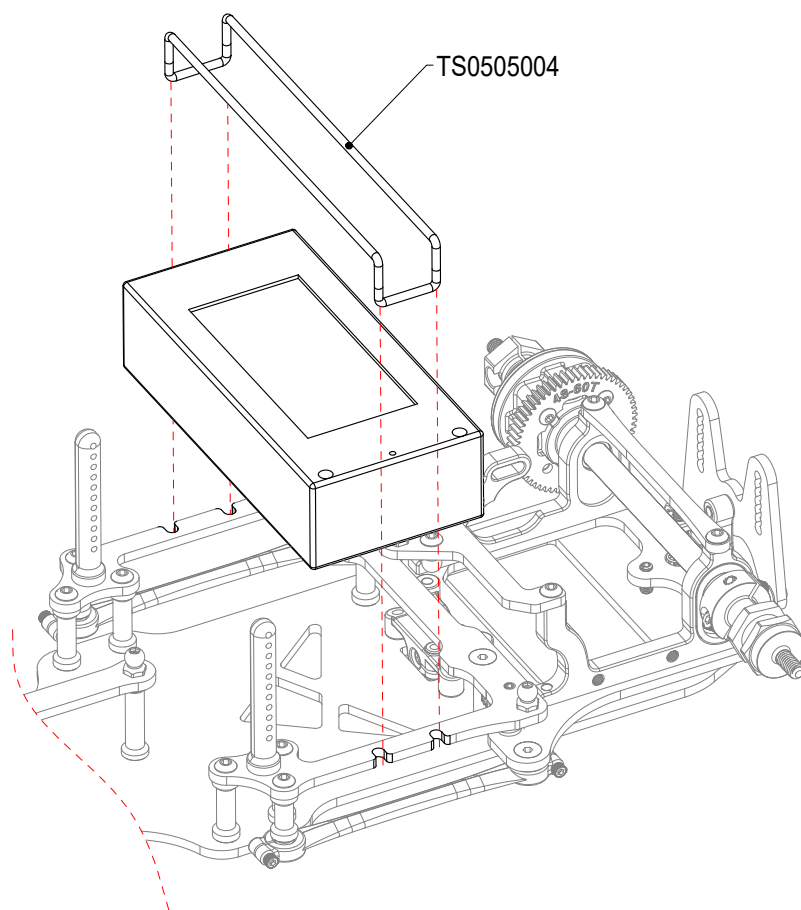
28



★ 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

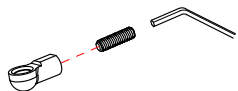


TS0104027.....2



SK_M3X10.....3

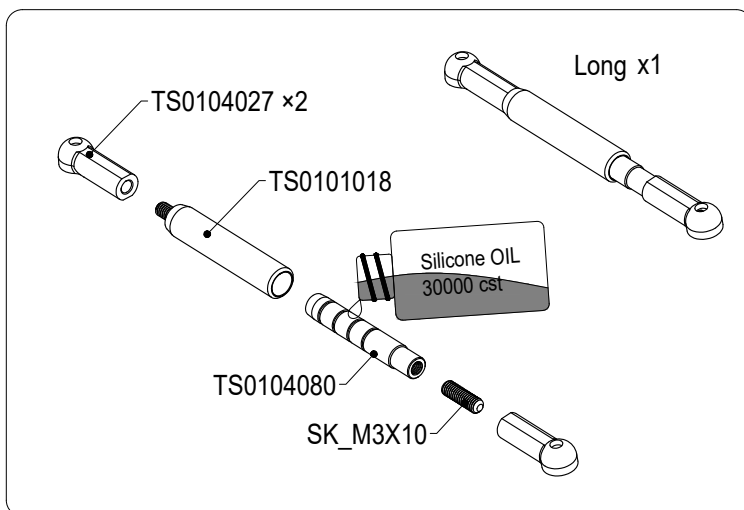
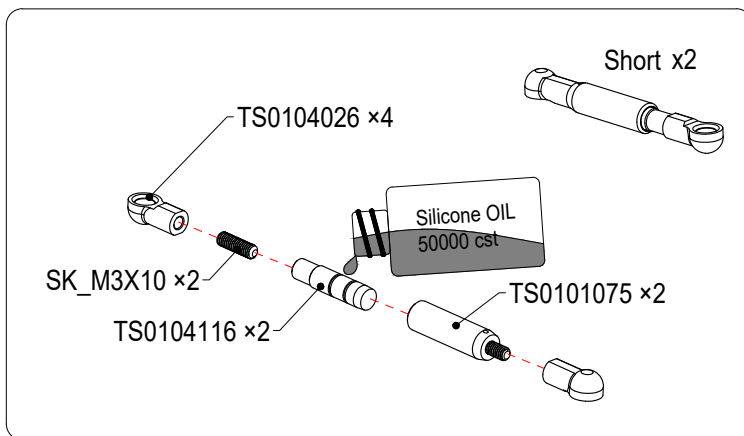
Roll damper



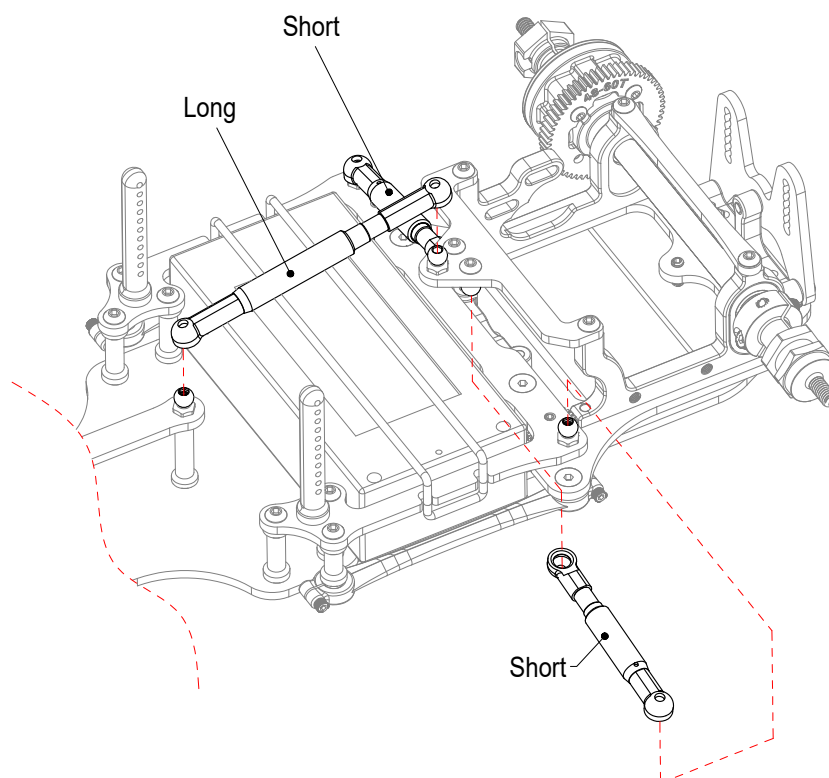
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







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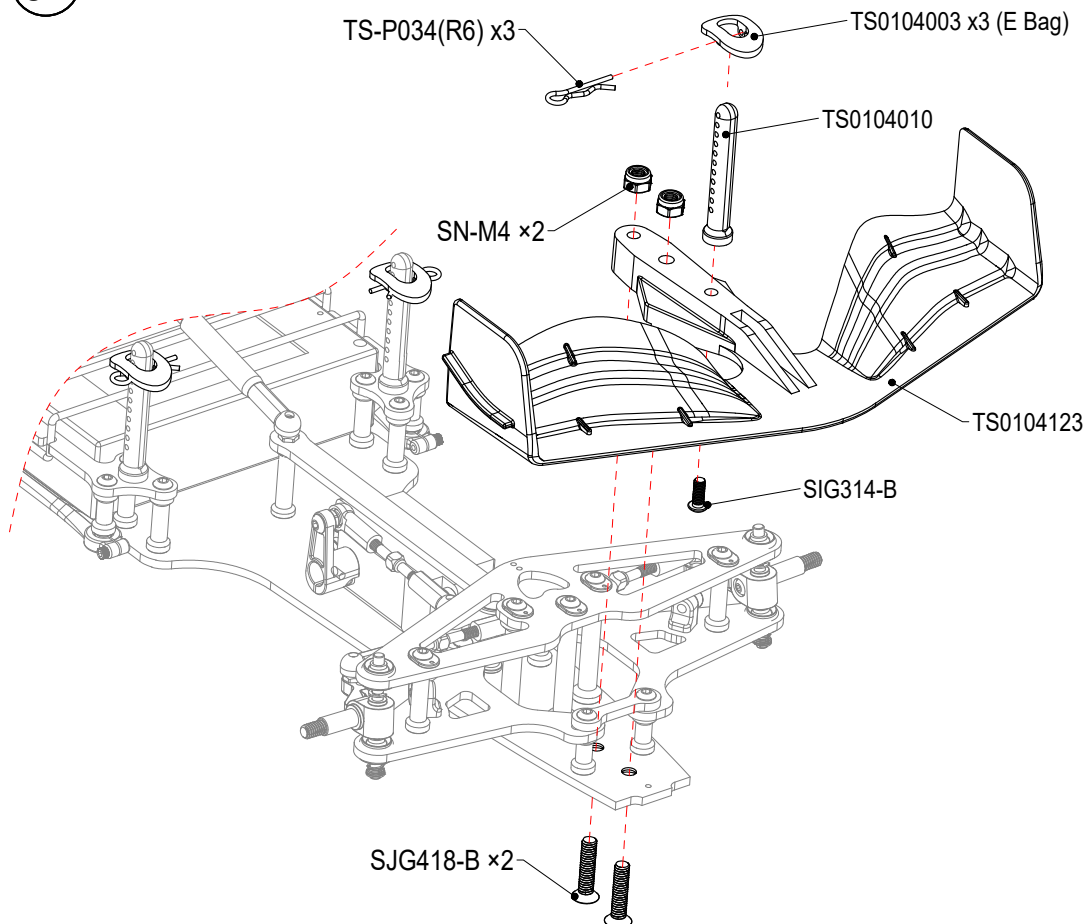




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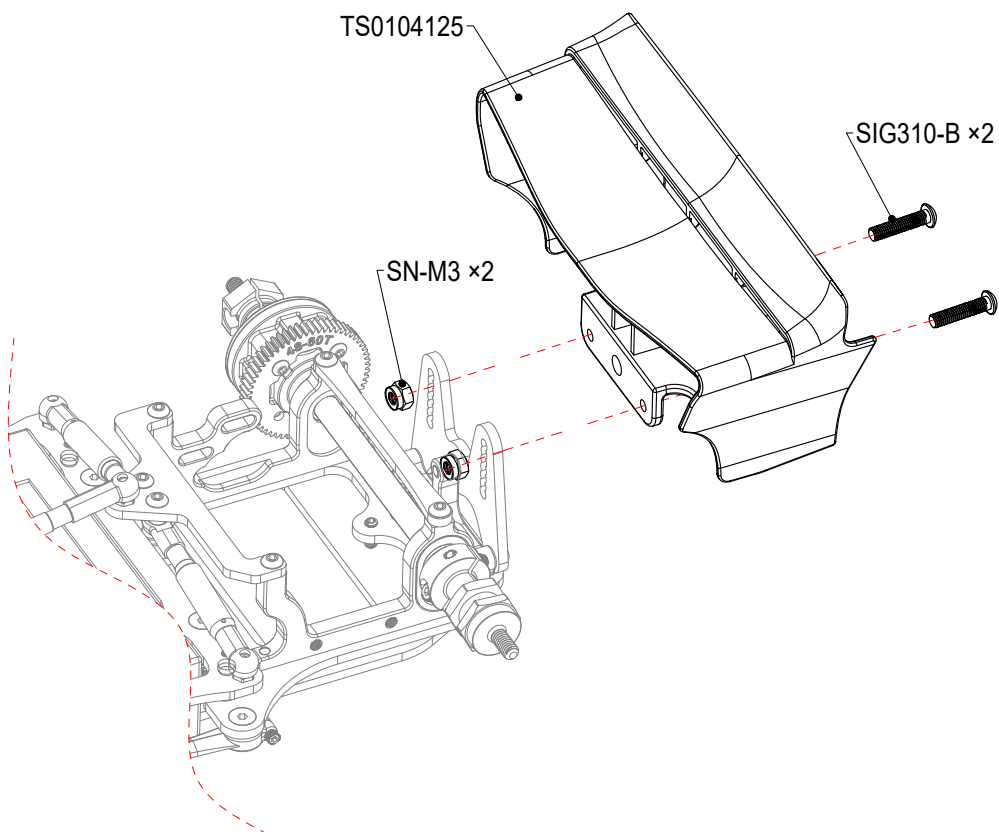
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	TS-P034 (R6)3
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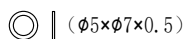
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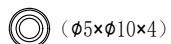




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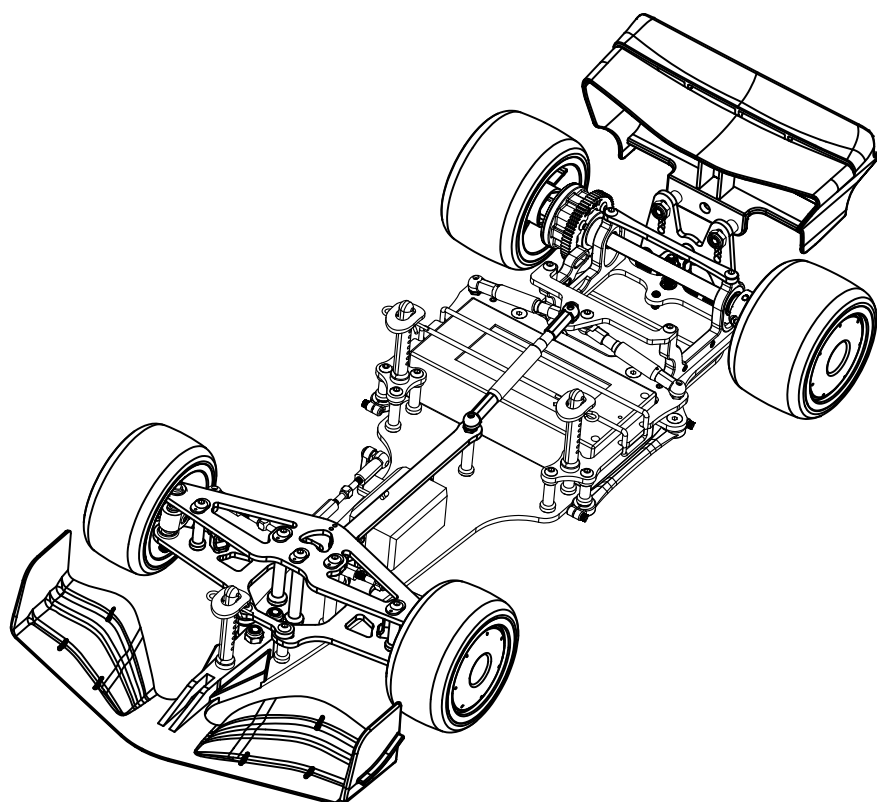
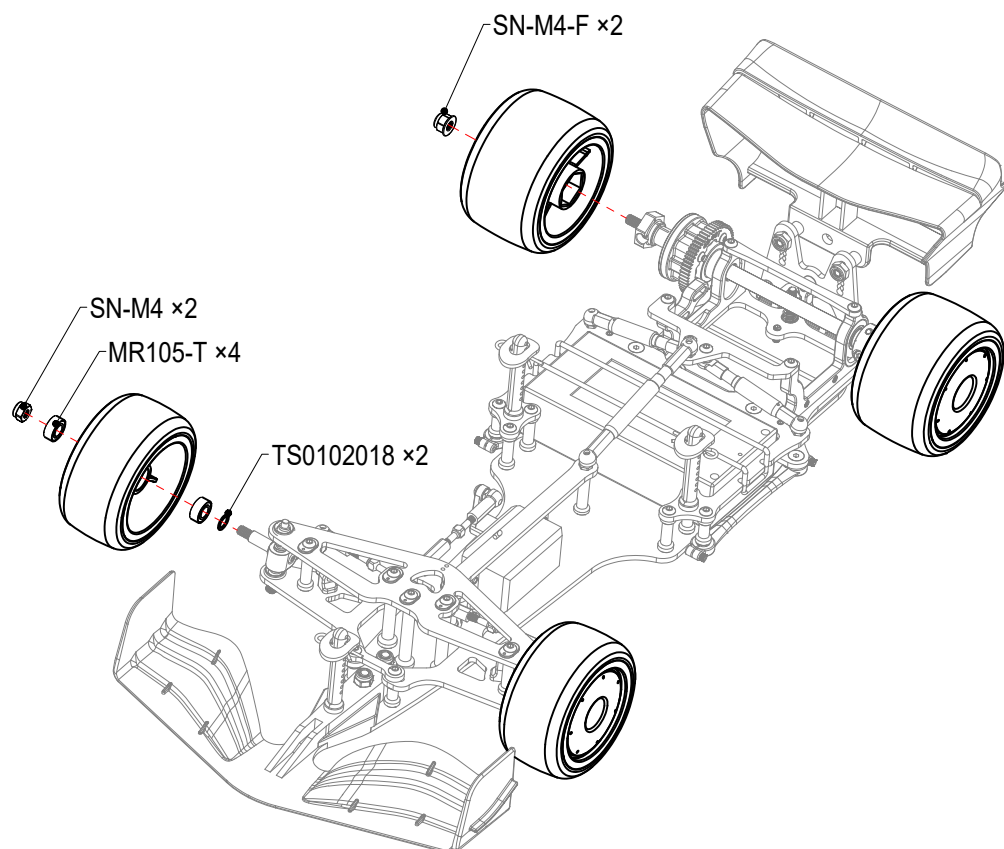


MR105-OR.....4



SN_M4-F.....2

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