



S104 EK1

1/10 OFF ROAD RACING EP BUGGY

SWORKz S104 EK1 INSTRUCTION MANUAL



INSTRUCTION

After 2 years of our 1/8th race buggy, SWORKz is now on its new project. A 1/10 EP 4WD buggy called the S104 EK1. There is a Pro Kit version and also a S104 EX1 Sport Ready to Run model. From the S350 BE1, we learned a lot about the buggy's strong points. Using our 1/8th buggy knowledge, we produced the S104 series. We believe that the S104 will perform very strongly in the 1/10 buggy field. The S104 is a very light weight car with a narrow chassis design that comes standard with SWORKz X-system transmission. The X-system was chosen for its excellent car acceleration. Equipped with Big Bore Shocks and oil filled gear differentials, the S104 EK1 delivers good traction and balance on any off road track. The pivot ball steering system gives the driver a good feel and control of the S104 buggy.

The S104 can be fitted with either saddle pack Li-Po batteries or shorty packs.

In order to withstand the brushless motor's powerful torque, the S104 EK1 Pro comes standard with full CNC gear system and CVD drive shafts.

14mm hex wheel hubs are used so the wheels can last when using the high power brushless motors.

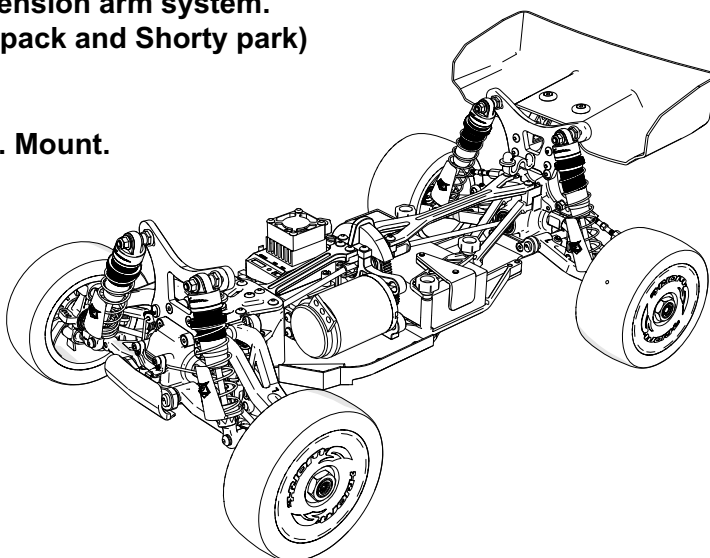
Congratulations on your purchase of the new SWORKz S104 EK1 1/10 scale off-road racing buggy pro kit.

Please read this manual thoroughly before you attempt to start or drive your S104 EK1. This manual contains step-by-step instructions to help you complete, prepare for startup, and fine-tune your Buggy. Updates, setups, and product news will be posted on our website (www.sworkz.com), so check often.

As always, if you should ever have any questions or need help with your S104 EK1, please feel free to contact our official SWORKz dealers and distributors, as they will be glad to help you. You may also contact us anytime for the most up to date information and support.

S104 EK1 Pro Kit Features :

1. Comes standard with SWORKz X-System transmission gear system.
2. Full CVD drive shafts.
3. Front and rear gear differential system with CNC crown and pinion gears.
4. Narrow 7075 aluminum chassis design.
5. Front and Rear Big Bore Shocks.
6. Adjustable front upper and lower suspension arm system.
7. Fits 2 types of Li-Po batteries. (Saddle pack and Shorty park)
8. Rear kick up chassis system
9. Center Spur Gear Protection Cover.
10. One Unit Motor Holder with Center Diff. Mount.
11. 14mm Hex Wheel Hub system
12. Pivot ball steering system
13. Double step rear shock tower system



Specification	
Length:	380mm
Width:	245mm
Height:	170mm
Ground Clearance:	50mm
Wheelbase:	275-278mm
Track:	F:223mm / R:223mm
Gear Ratio:	C:86~88T, F/R 42/17T
Weight:	1720g~1830g



WARRANTY

Your SWORKz S104 EK1 kit warranty covers workmanship and manufacturing defects of original and unmodified parts. Warranty claims resulting from crashes, abuse, improper operation, improper mounting, improper adjustment or lack of maintenance will not be honored.

Contact your local hobby shop or SWORKz distributor for all claims and questions. Claims must be well documented. All Claims are subject to expert examination and approval by SWORKz.



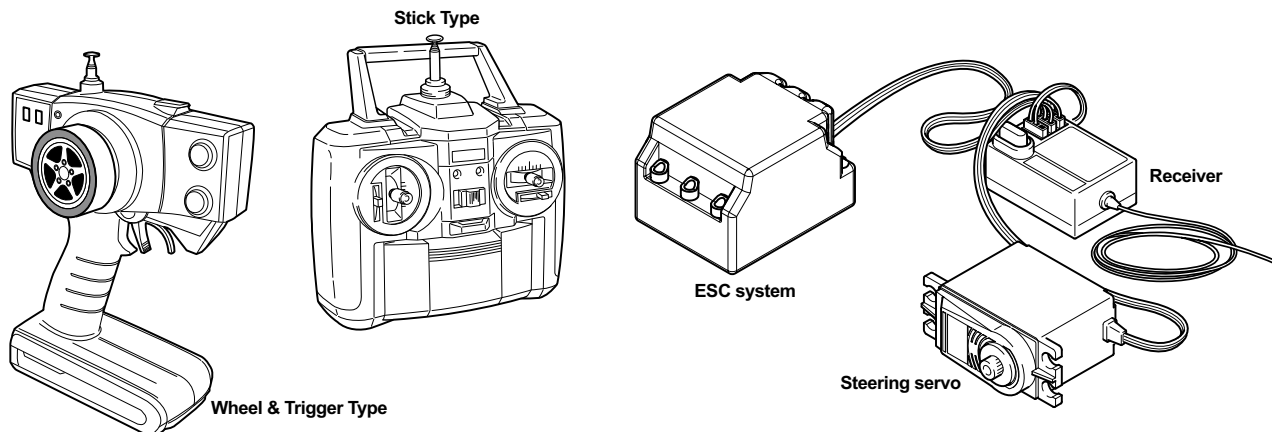
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S104 EK1 Spare Part List	42-43
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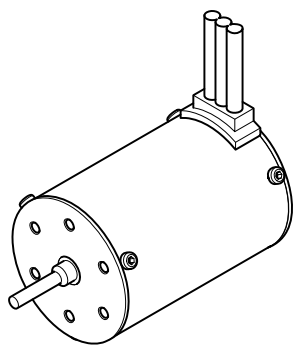
This radio control racing car is not a toy!
This high-performance R/C model is recommended for ages 14 and older.

Required Equipment for Operation

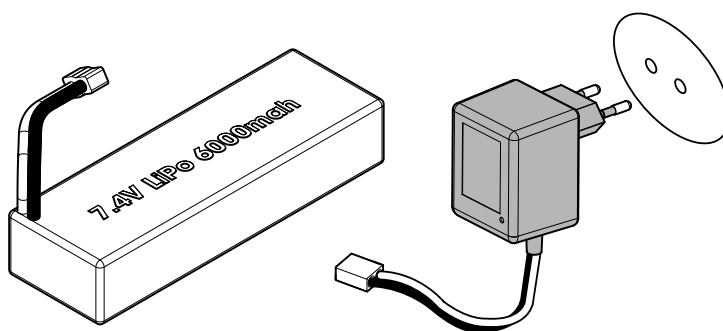
Radio Gear



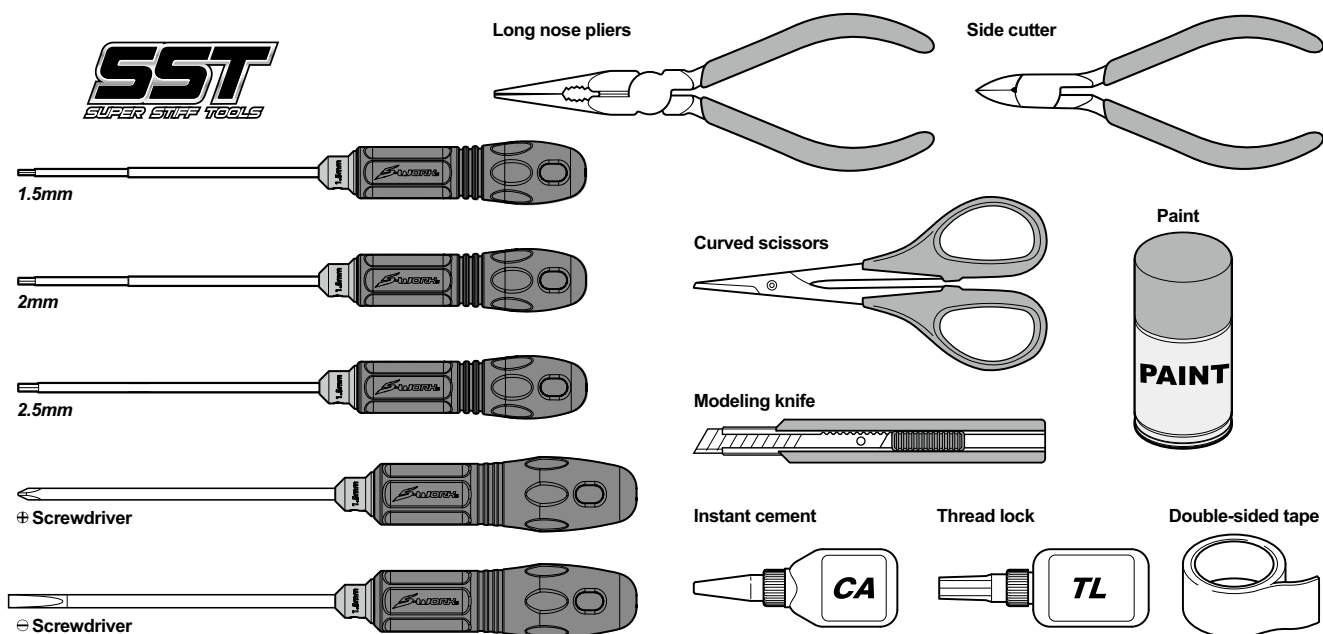
Breshless Motor



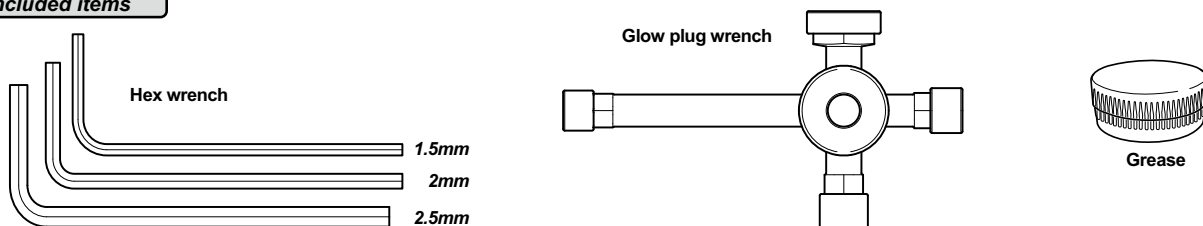
Charger and LiPo Battery



Tools Recommended



Included items





104004
M3x3mm Set Screw x6



104005
M3x4mm Set Screw x4



104002
M3x10mm Set Screw x1



104009
M3x16mm Set Screw x8



104008
M4x4mm Set Screw x4



105004
M2.6x6mm Cap Screw x4



105011
M3x23mm Hex Scket OH/TP Screw x4



106014
M2x6mm Hex Scket OH/TP Screw x4



106018
M3x3mm Hex Socket OH/TP Screw x6



106011
M3x4mm Hex Socket OH/TP Screw x1



106015
M3x5mm Hex Socket OH/TP Screw x6



106010
M3x6mm Hex Socket OH/TP Screw x17



106001
M3x8mm Hex Socket OH/TP Screw x21



106002
M3x10mm Hex Socket OH/TP Screw x6



106008
M3x12mm Hex Scket OH/TP Screw x4



106005
M3x15mm Hex Scket OH/TP Screw x2



108017
M2.6x10mm FH/ST HEX Screw x8



108014
M3x3mm FH/ST HEX Screw x2



108007
M3x6mm FH/ST HEX Screw x13



108006
M3x8mm FH/ST HEX Screw x33



108003
M3x10mm FH/ST HEX Screw x16



108001
M3x12mm FH/ST HEX Screw x6



108018
M3x30mm FH/ST HEX Screw x4



330331
Steering Linkage Ball Stud 4.1mm x2



330299
Steering Linkage Ball Stud 5mm x8



330300
Rear Upper Sus. Arm Turnbuckles x4



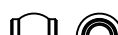
330314
Steering Knuckle Pivot Ball Turnbuckle x4



330315
Sway Bar Ball Stud x4



330312
Aluminum Shock Cap Studk x4



330134
Shock Ball Stud x4



330294
CVD Axle x2



101012
Washer M3x6xT0.5mm **x6**



101011
Shock Washer 2.6x6x0.5mm **x4**



330305
Shock Washer 3.3x6.7x1mm **x4**



101025
Shim 3.5x10x0.1mm **x8**



101023
10x12x0.1mm S104 Shim **x6**



101024
10x12x0.2mm S104 Shim **x3**



117004
Bushings 5x8x2.5mm **x4**



117003
Flange Ball Bearing 3x6x2.5mm **x2**



116014
Ball Bearing 6x13x5mm **x4**



116013
Ball Bearing 10x15x4mm **x14**



330295
CVD Join **x6**



330306
Shock Washer 3.3x6.5x2.5mm **x4**



330316
Aluminum Knuckle Pivot Ball Washer 2mm **x2**



330321
Pin M2x8mm **x2**



330283
Pin M2x10mm **x10**



330285
Pin M2x14mm **x4**



330279
Bevel Gear Shaft **x4**



330293
Rear Hub Carriers Hing Pin **x2**



330332
Front Upper Arm Hing Pin **x2**



330292
Front/Rear Lower Arm Hing Pin **x4**



330308
Shock Shaft S **x2**



330307
Shock Shaft L **x2**



400013
Shock Seal O-ring 2x2.7mm **x8**



400002
O-ring S5 4.8x1.5 **x4**



400008
O-ring for Pinion Gear **x2**



400014
O-Ring 1.5x13.5mm **x4**



103001
M3 Nut Lock **x10**



103003
Flange M3 Nut Lock **x4**



330297
Wheel Hub **x4**



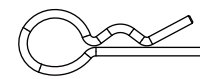
330298
S104 Wheel Nut 14mm **x4**



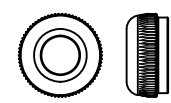
115059
S104 Center Slipper Clutch Spring **x1**



115058
Servo Saver Spring **x1**



115062
1/10 Body Clip **x2**



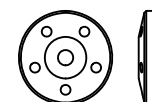
330303
Aluminum Shock Seal Cover **x4**



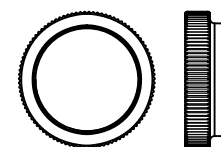
400016
Shock Boot **x4**



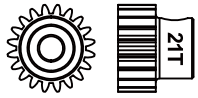
400015
Shock Bladder **x4**



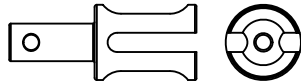
330310
Shock Piston 1.2mmx5 holes **x4**



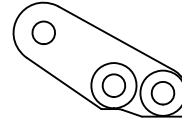
330304
Aluminum Shock Spring Adjust Nut **x4**



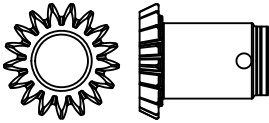
330410
S104 Motor Gear 21T **x1**



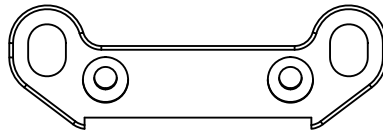
330282
Front/Rear Diff. Outdrive **x4**



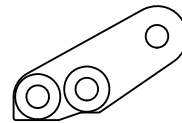
330347
Carbon Fiber Steering Knuckle Plate (L) **x1**



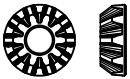
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Pinion Gear 17T **x2**



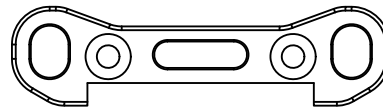
330290
S104 Rear Lower Arm Holder **x1**



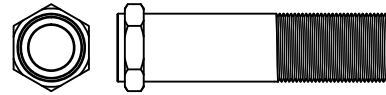
330348
Carbon Fiber Steering Knuckle Plate (R) **x1**



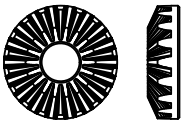
330278
Diff. Bevel Gear 10T **x8**



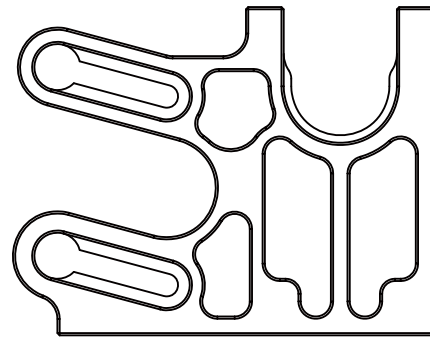
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S104 Front Lower Suspension Plate **x1**



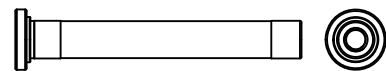
330328
Servo Saver Post **x1**



330277
Diff. Bevel Gear 18T **x4**



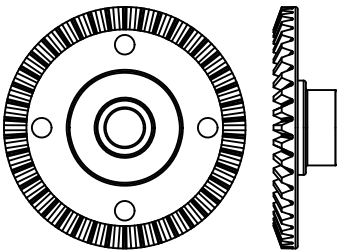
330425
S104 Aluminum Center Slipper Clutch Mount for Motor **x1**



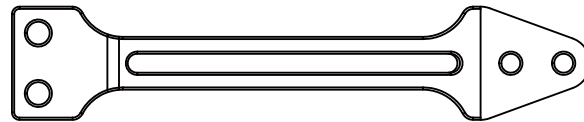
330327
Servo Saver Shaft **x2**



330320
S104 Center Slipper Clutch Nut **x1**



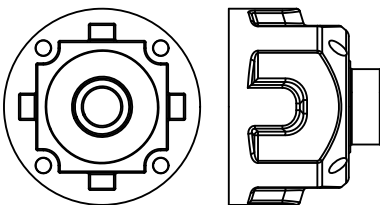
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Crown Gear 42T **x2**



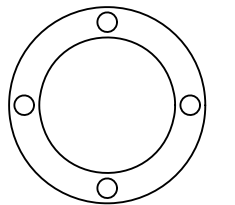
330341
S104 Aluminum Front Center Support **x1**



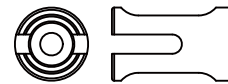
330329
Servo Saver Nut **x1**



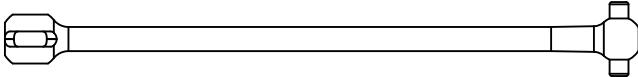
200463
Diff. Case **x2**



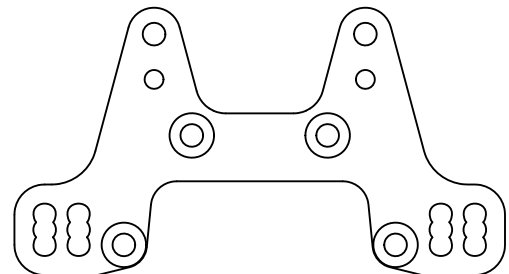
610012
Diff. Gasket(0.4T) **x2**



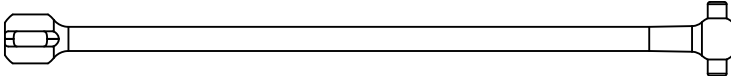
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S104 Center Slipper Clutch Outdrive S **x1**



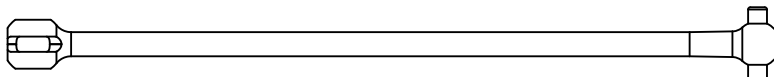
330296
F/R Drive Shaft 78mm **x4**



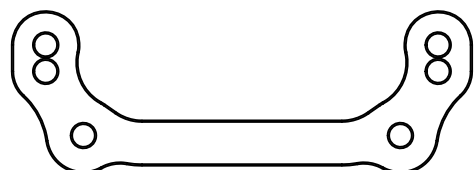
330288
Rear Shock Tower Holder **x1**



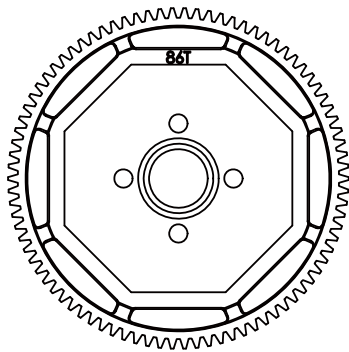
330325
S104 EK1 Center Front Drift Shaft 91mm **x1**



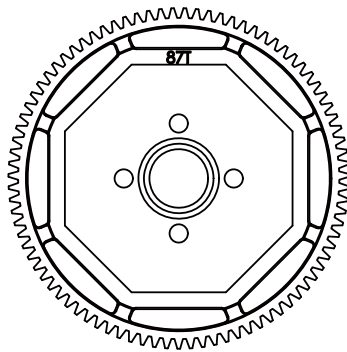
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S104 EK1 Center Rear Drift Shaft 96mm **x1**



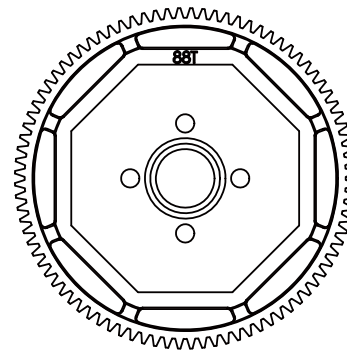
330330
Servo Saver Steering Plate **x1**



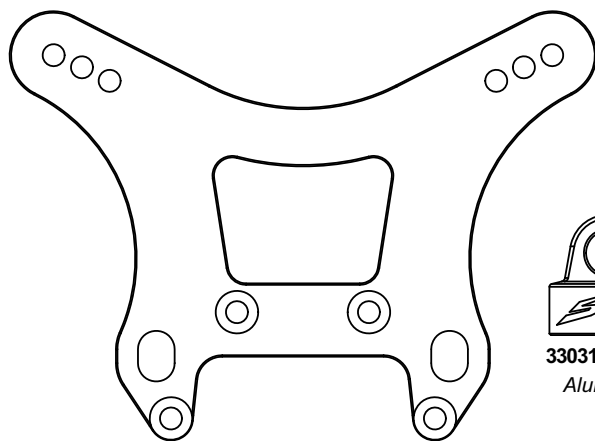
200455
S104 86T Spur Gear (48DP) **x1**



200348
S104 87T Spur Gear (48DP) **x1**



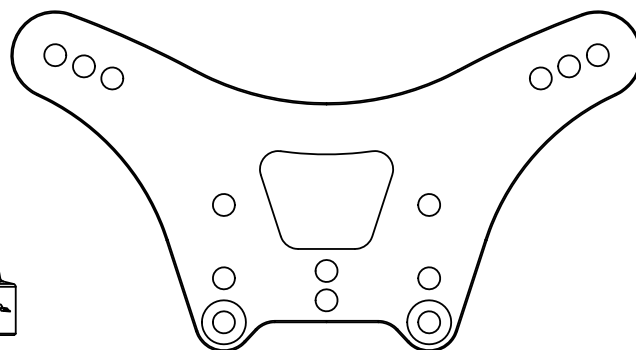
200456
S104 88T Spur Gear (48DP) **x1**



330287
Front Shock Tower **x1**



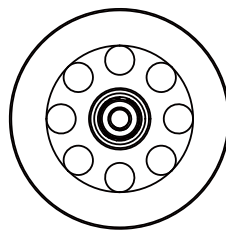
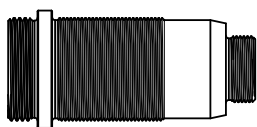
330311
Aluminum Shock Cap **x4**



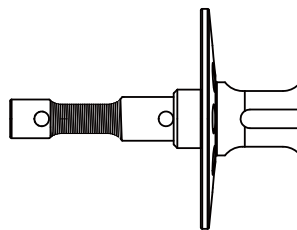
330313
Rear Shock Tower **x1**



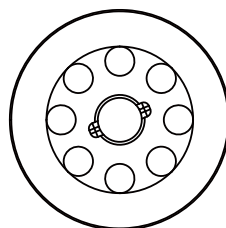
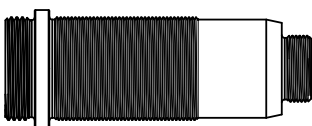
330302
Aluminum Race Shock Body (S) **x2**



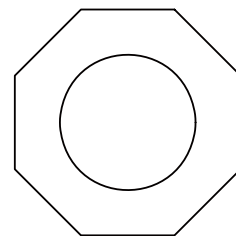
330317
S104 Center Slipper Clutch Holder L **x1**



330301
Aluminum Race Shock Body (L) **x2**



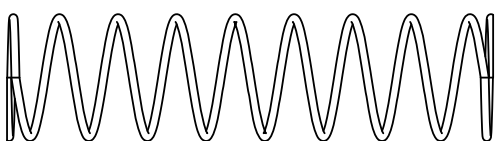
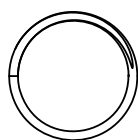
330319
S104 Center Slipper Clutch Plate **x1**



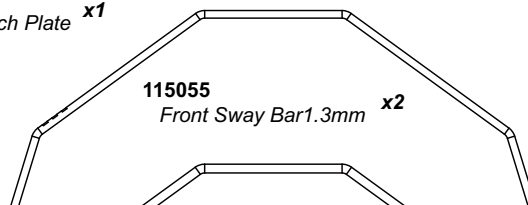
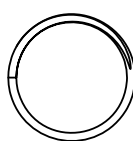
610013
S104 Center Slipper Clutch Pad **x2**



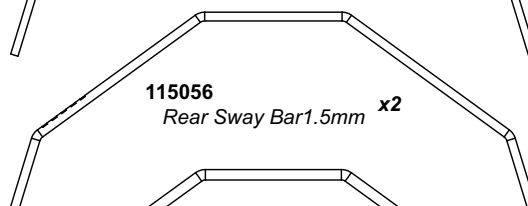
115060
Shock Spring S (BK) **x2**



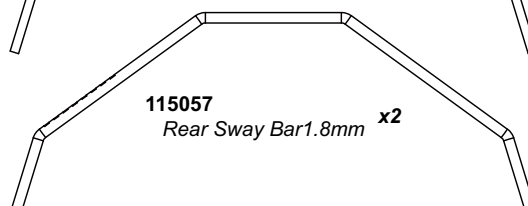
115061
Shock Spring L (BK) **x2**



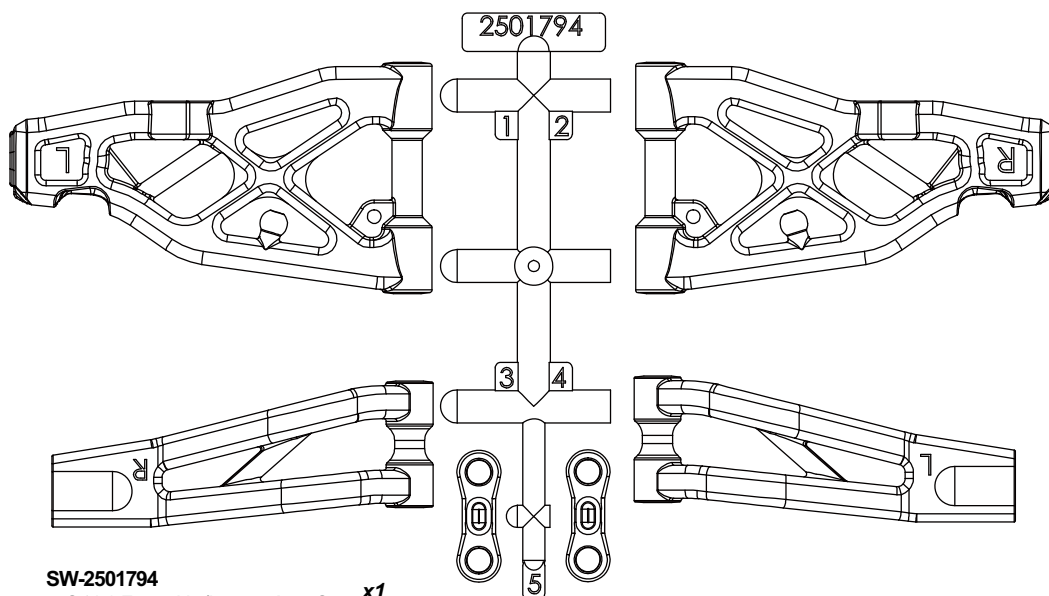
115055
Front Sway Bar 1.3mm **x2**



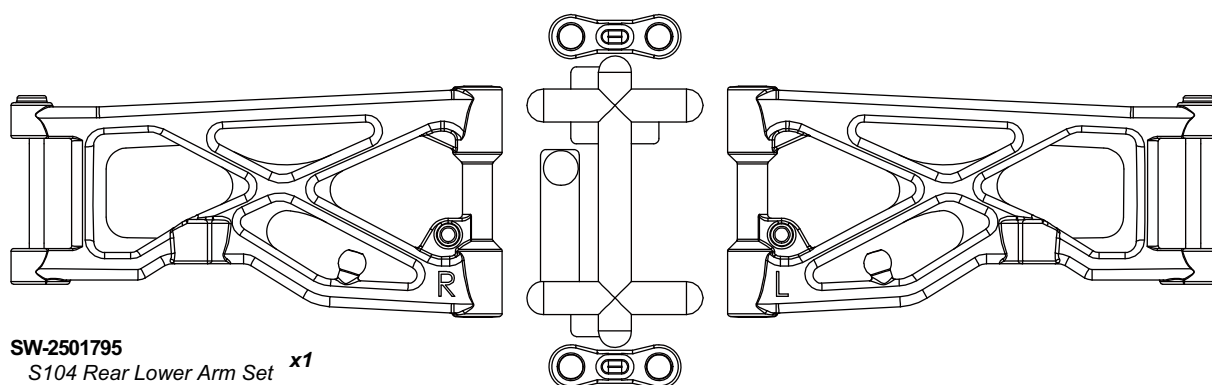
115056
Rear Sway Bar 1.5mm **x2**



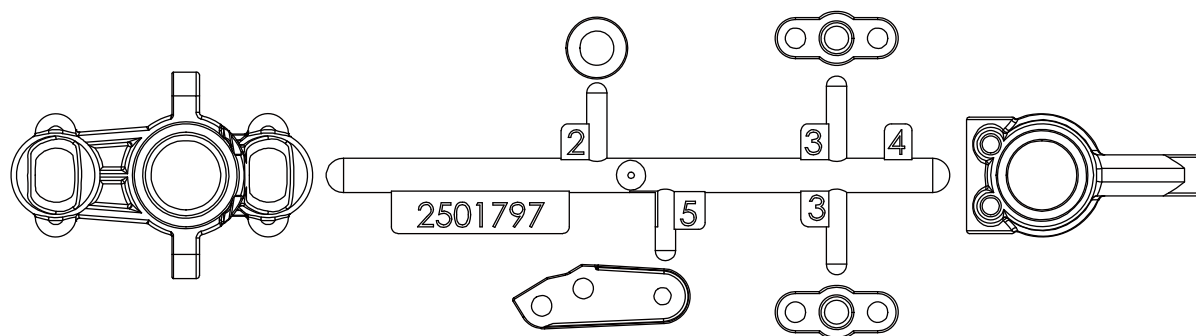
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Rear Sway Bar 1.8mm **x2**



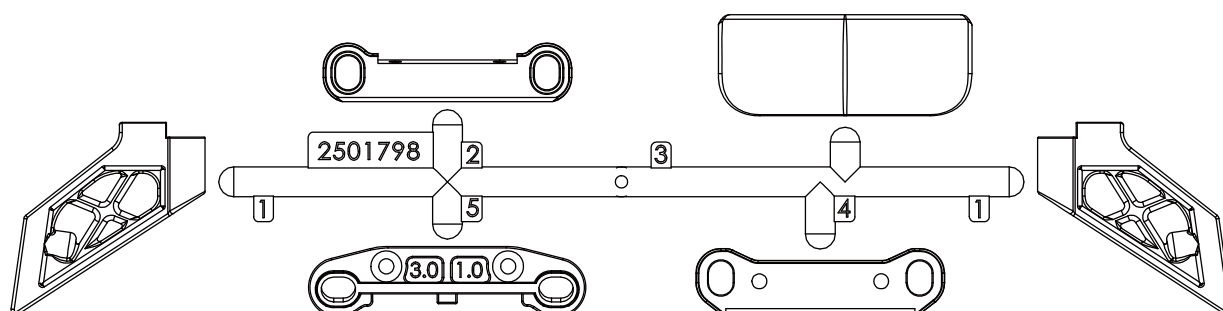
SW-2501794
S104 Front Up/Lower Arm Set **x1**



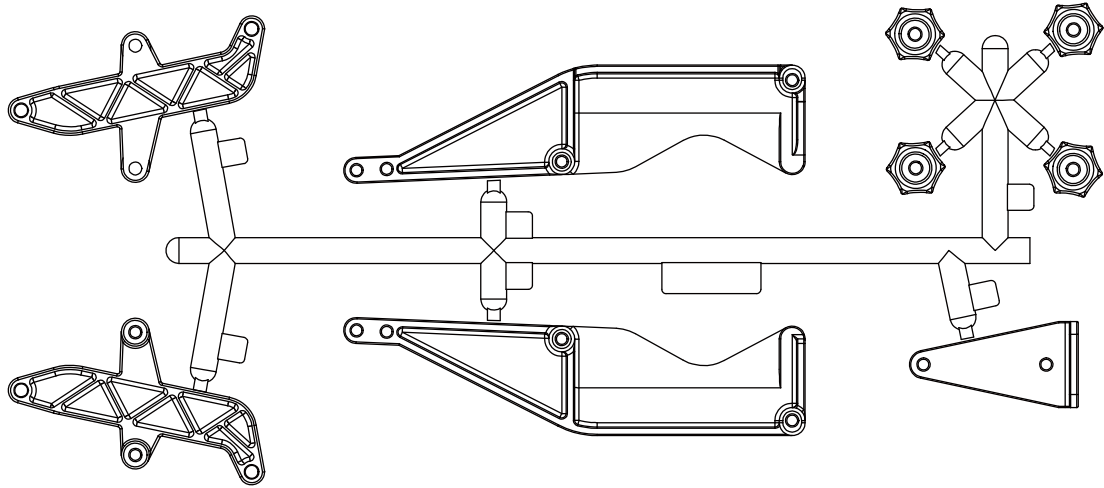
SW-2501795
S104 Rear Lower Arm Set **x1**



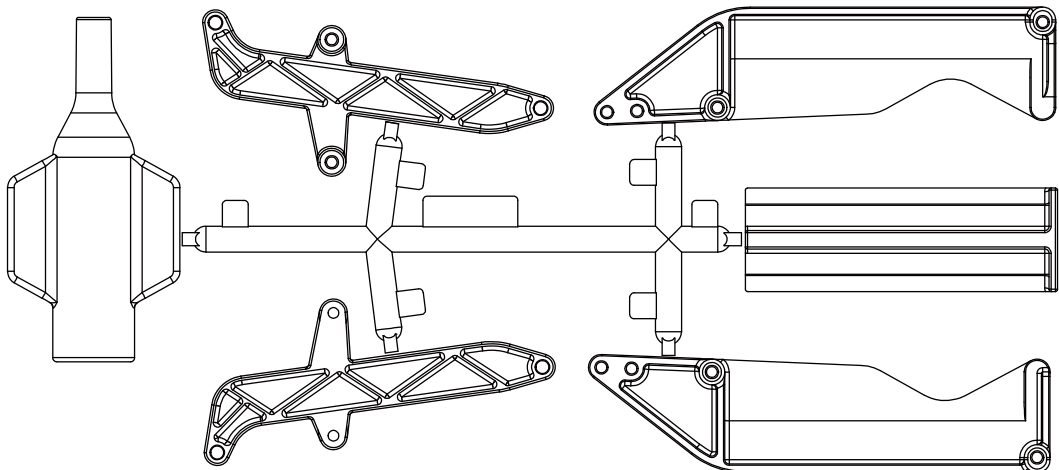
SW-2501797
S104 Front Steering Knuckle and Rear Hub Carrier Set **x2**



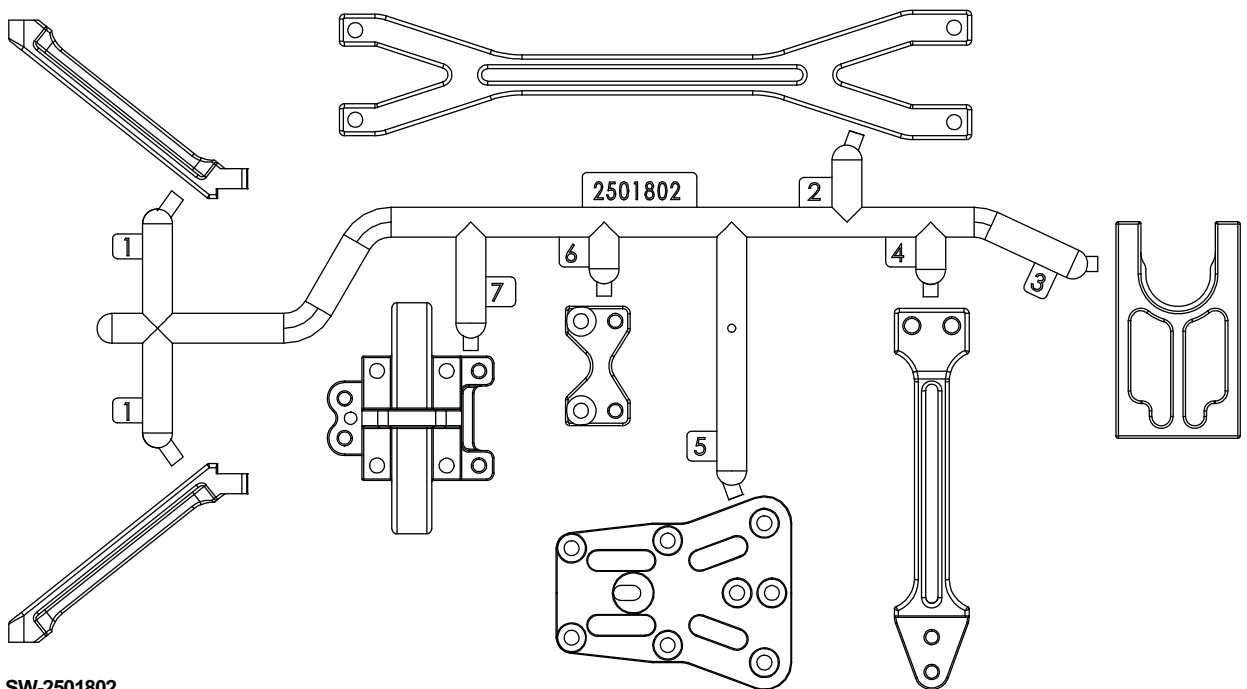
SW-2501798
S104 Wing Stay Set with Bumper and Arm Holder **x1**



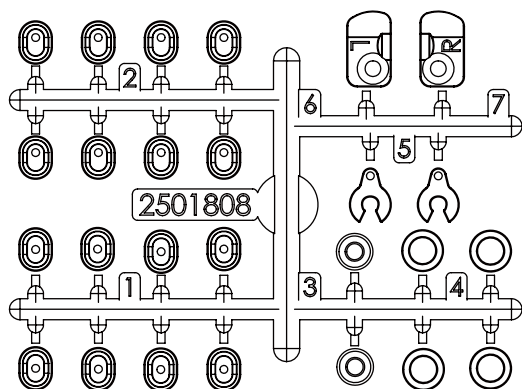
SW-2501803
S104 Shorty Battery Side Guard with Battery Holder Set **x1**



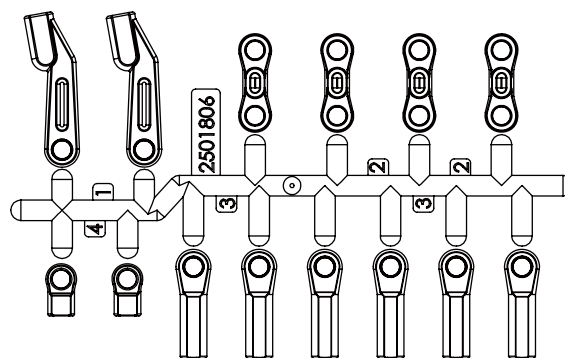
SW-2501845
S104 Saddle Pack Battery Side Guard with Battery Holder Set **x1**



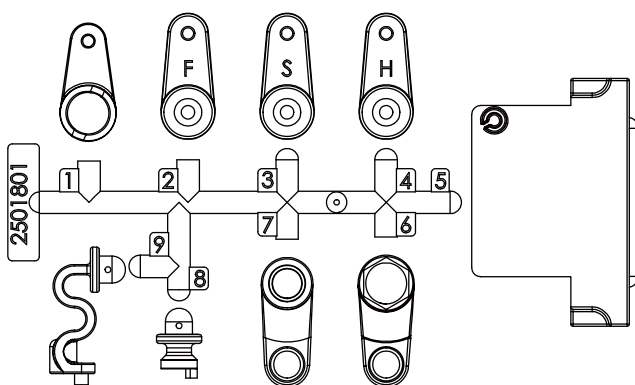
SW-2501802
S104 Center Plastic Support Set **x1**



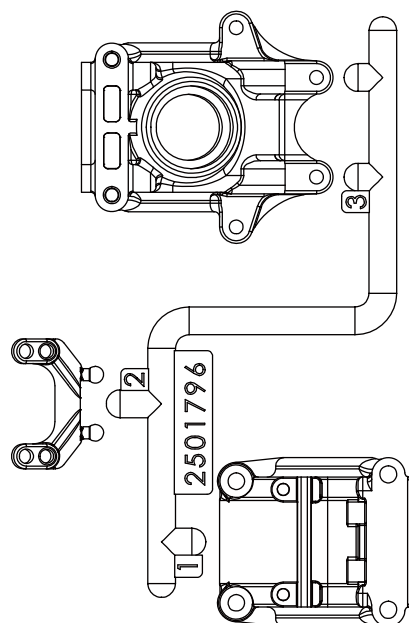
SW-2501808
S104 Plastic Insert Set **x1**



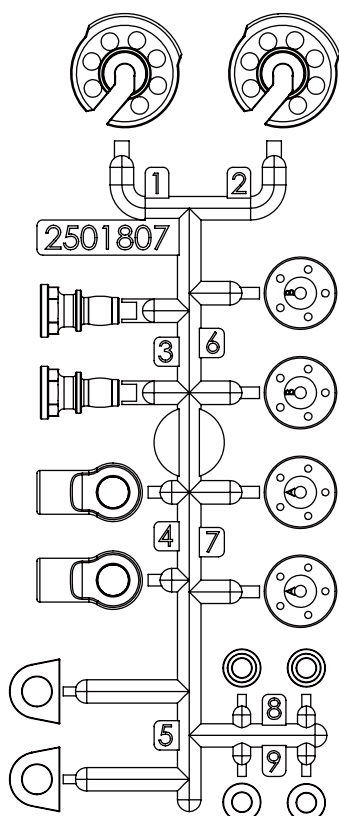
SW-2501806
S104 Plastic Ball End Set **x1**



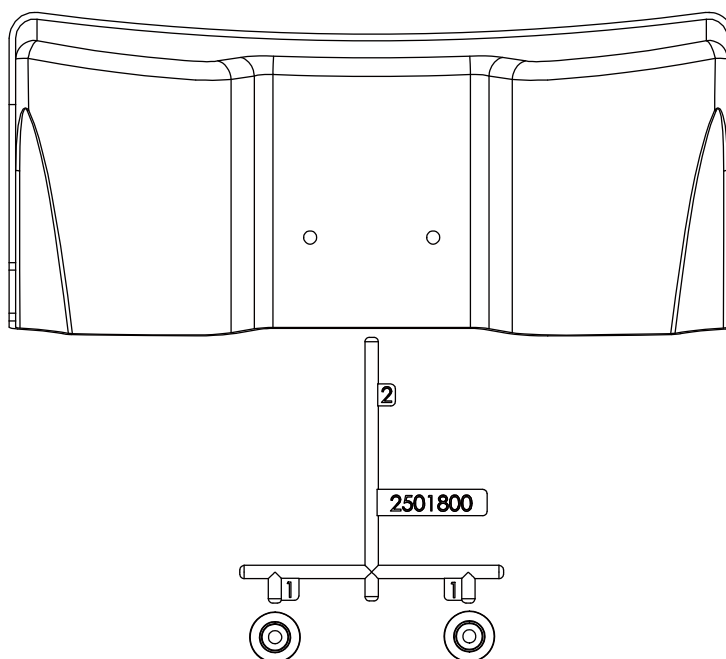
SW-2501801
S104 Setring Bellcrank Set with Servo Horn Set **x1**



SW-2501796
S104 Gear Box Set (F&R) **x2**



SW-2501807
S104 Shock Spring Holder with Ball End Plastic Parts **x2**

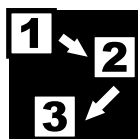


SW-2501800
S104 Rear Wing Set **x1**

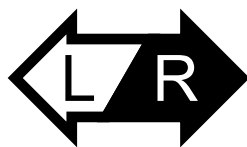
Operation Guide



Assemble front and rear



Assemble in the specified order



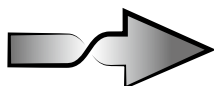
Assemble both left and right sides



Assemble for 2 sets



Assemble for 4 sets



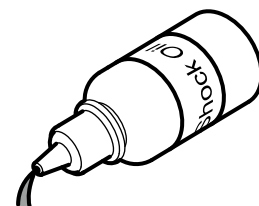
overturn



Thread Locking Compound



Grease



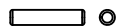
Pure Silicone Oil

Safety Precautions

The SWORKz S104 EK1 is a high performance radio control model which needs to be operated with caution and common sense.

The S104 EK1 Pro Kit is not intended for children under the age of 14 without adult supervision. SWORKz shall not be held liable for any loss or damages, whether direct, indirect, act of nature, arising from abuse or misuse of this product or any other product required.

- The LiPO Battery can be dangerous if improperly handled.
- Always keep your LiPO Battery in a cool area and never use it near flames, sparks, or while smoking.
- Keep your LiPO Battery, and all other flammables, out of the reach of children.
- After running your car, all parts of the Motor and ESC can become extremely hot. Be careful not to touch these parts.
- This model is controlled by your radio controller and can be vulnerable to interference from many outside sources. This interference can cause a loss of control so it is necessary to operate this model in an open area to avoid personal or property damage. Always ensure turning on your radio first.
- Keep all the products included in the package out of the reach of children.
- This model contains many fast rotating parts. Never touch them during operation.
- Follow the instructions included with your radio gear.
- Never operate your model near people or property. The speed of this model has the potential to injure people and or damage property if misused.
- Always use original SWORKz spare parts and option parts.
- Always ensure that the buggy is in proper working condition before use.
- Always exercise caution when using any tools.



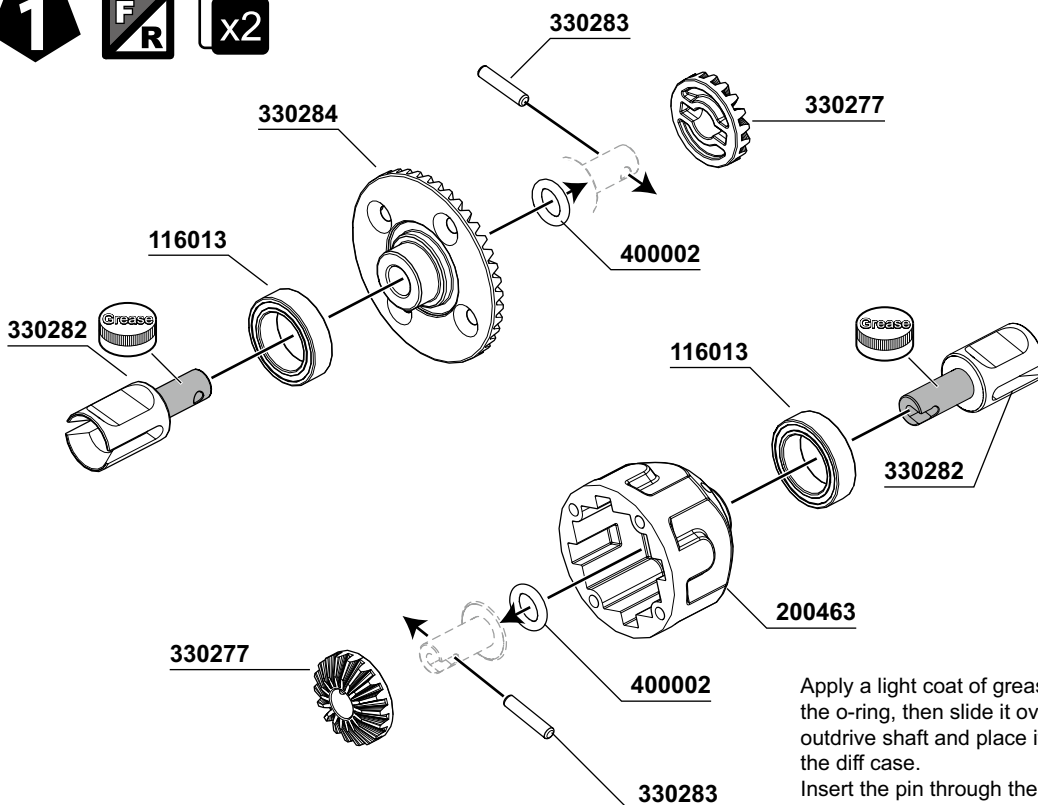
330283
Pin M2x10mm **x4**



400002
O-ring S5 4.8x1.5 **x4**



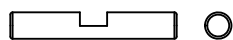
116013
Ball Bearing 10x15x4mm **x4**



Apply a light coat of grease to the o-ring, then slide it over the outdrive shaft and place it in the diff case. Insert the pin through the hole of the out drive.



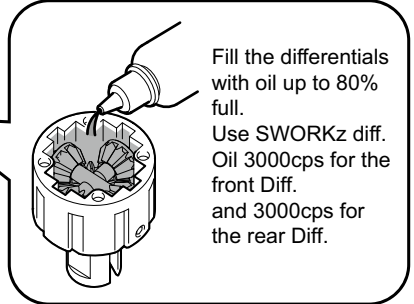
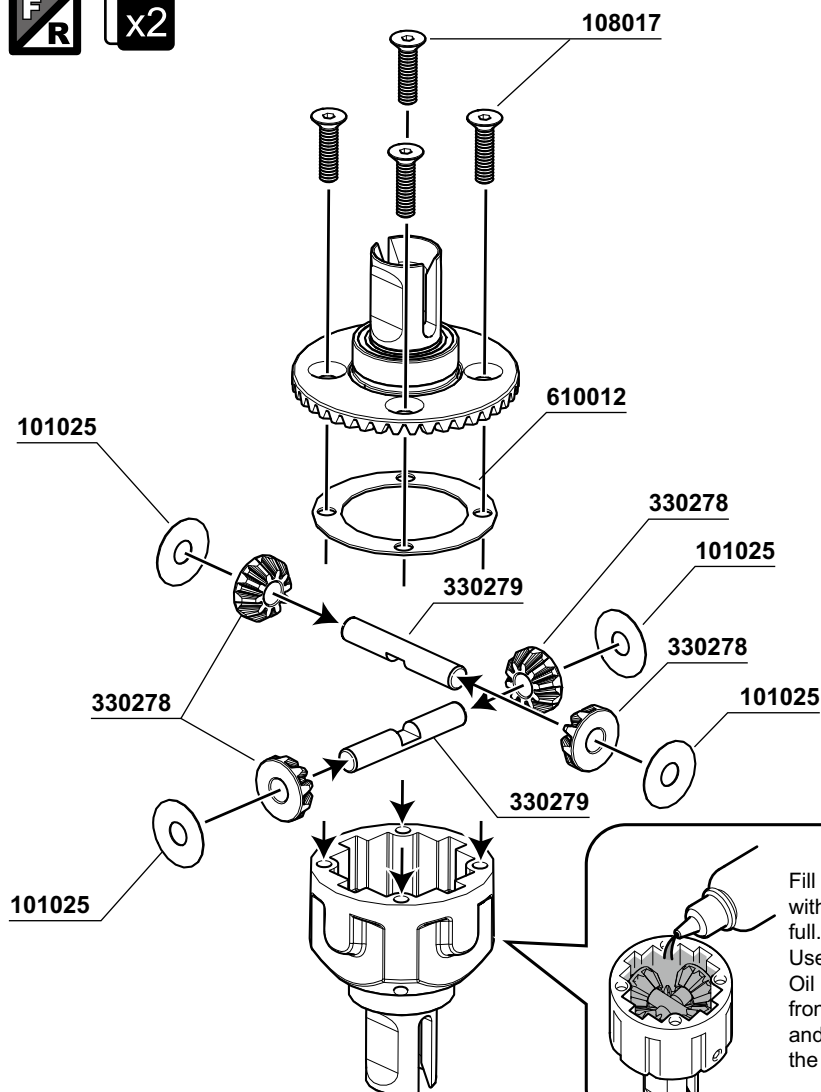
108017
M2.6x10mm FH/ST HEX Screw **x8**



330279
Bevel Gear Shaft **x4**



101025
Shim 3.5x10x0.1mm **x8**



Fill the differentials with oil up to 80% full. Use SWORKz diff. Oil 3000cps for the front Diff. and 3000cps for the rear Diff.

330283
Pin M2x10mm x2

330295
CVD Join x2

400008
O-ring for Pinion Gear x2

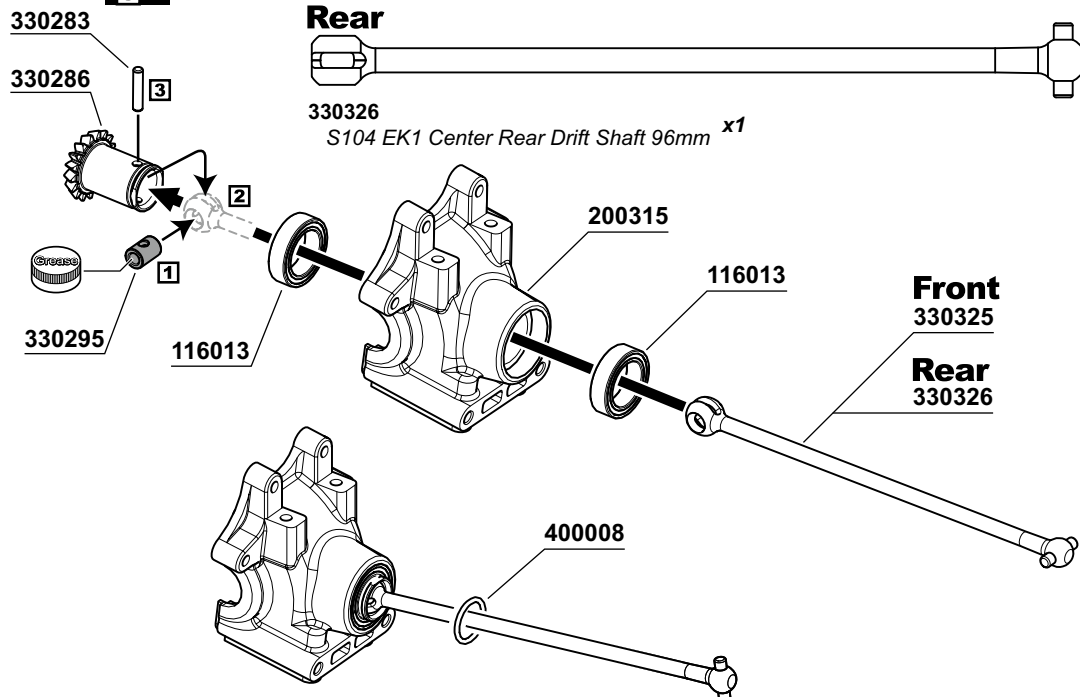
116013
Ball Bearing 10x15x4mm x4

Front

330325
S104 EK1 Center Front Drift Shaft 91mm x1

Rear

330326
S104 EK1 Center Rear Drift Shaft 96mm x1

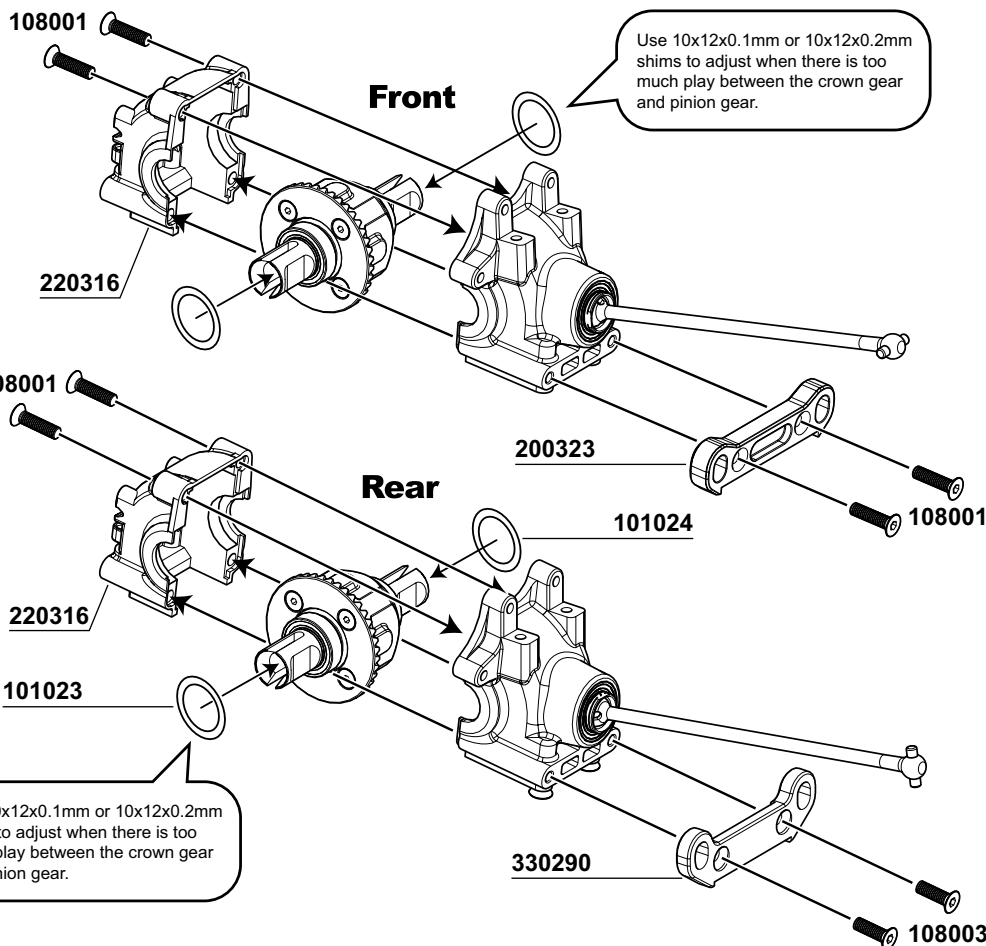


108003
M3x10mm FH/ST HEX Screw x2

108001
M3x12mm FH/ST HEX Screw x6

101023
10x12x0.1mm S104 Shim x5

101024
10x12x0.2mm S104 Shim x2





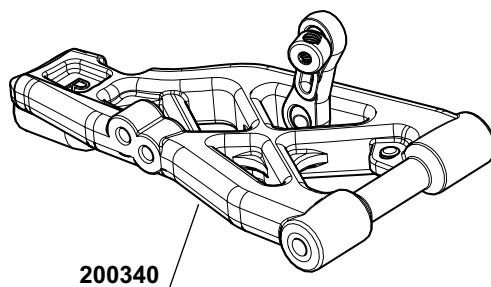
106010

M3x6mm Hex Socket OH/TP Screw x2



330315

Sway Bar Ball Stud x2

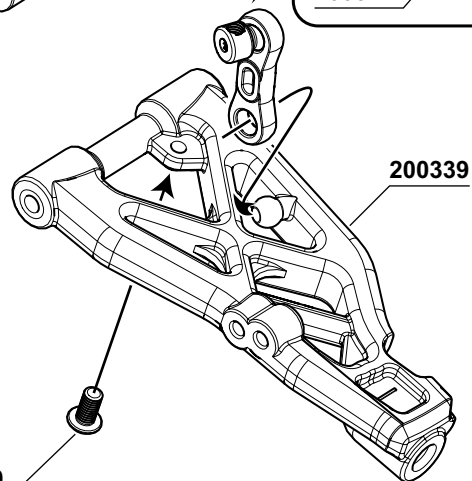


200340

Front

330315

200341



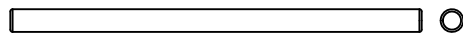
200339

106010



108018

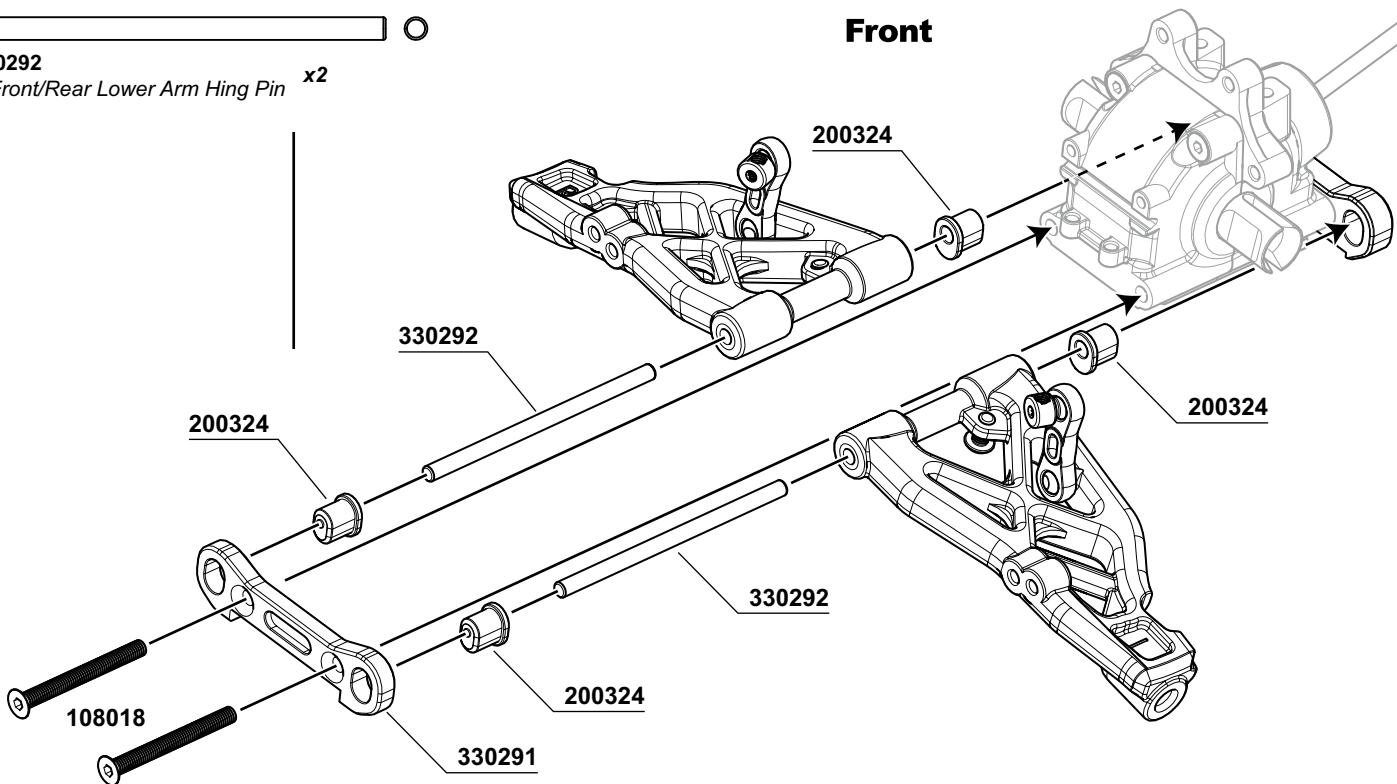
M3x30mm FH/ST HEX Screw x2



330292

Front/Rear Lower Arm Hing Pin x2

Front



200324

330292

200324

330292

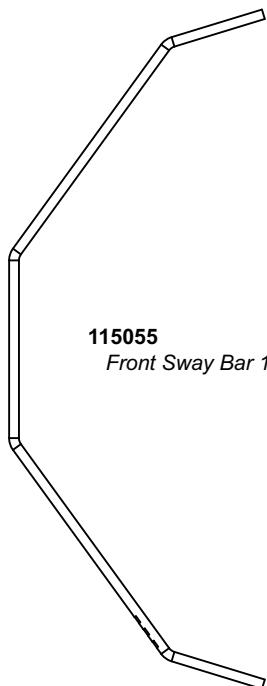
200324

330291

108018

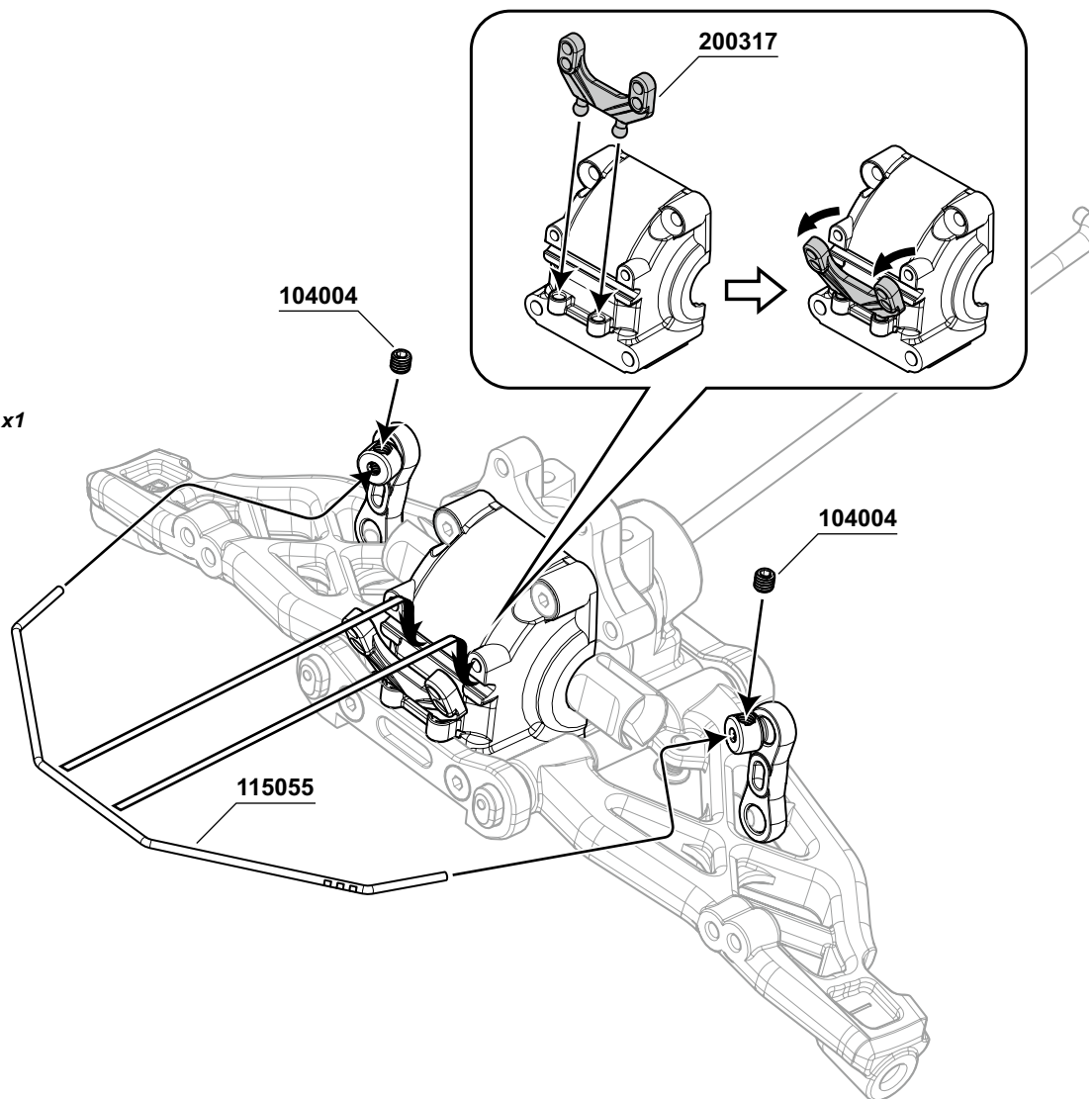


104004
M3x3mm Set Screw x2



115055
Front Sway Bar 1.3mm x1

7

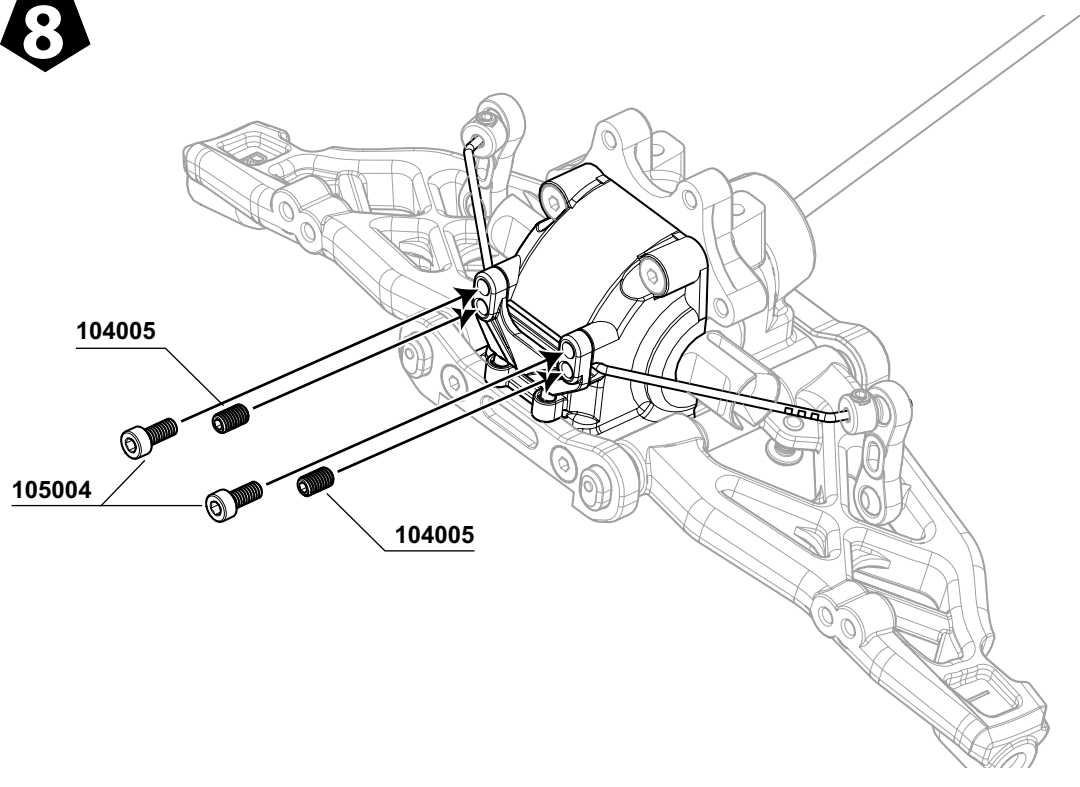


104005
M3x4mm Set Screw x2



105004
M2.6x6mm Cap Screw x2

8

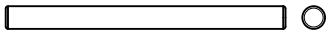




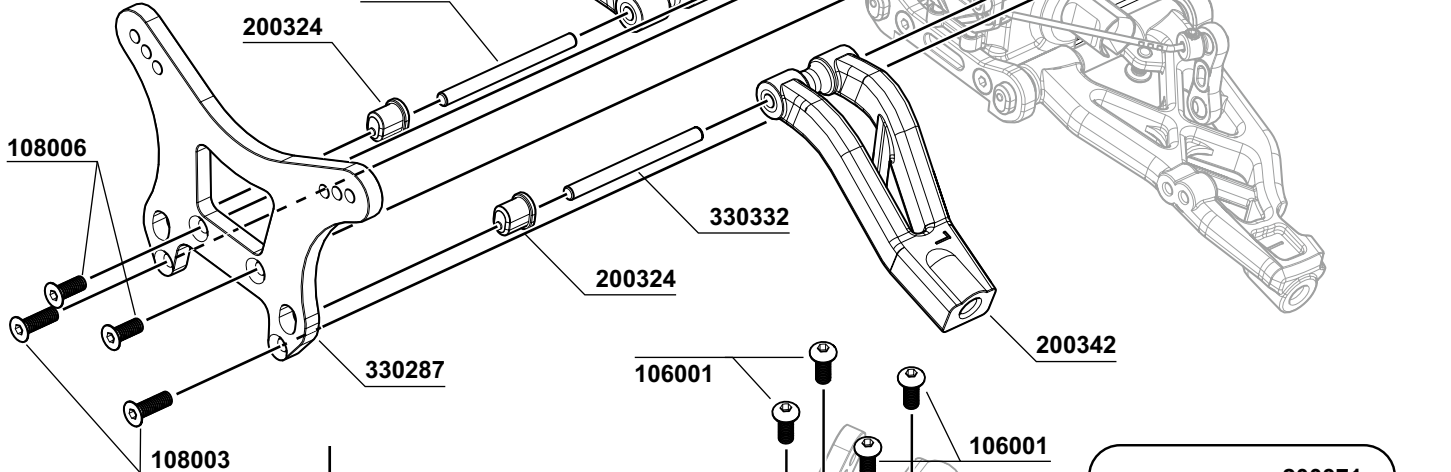
108006
M3x8mm FH/ST HEX Screw x2



108003
M3x10mm FH/ST HEX Screw x2



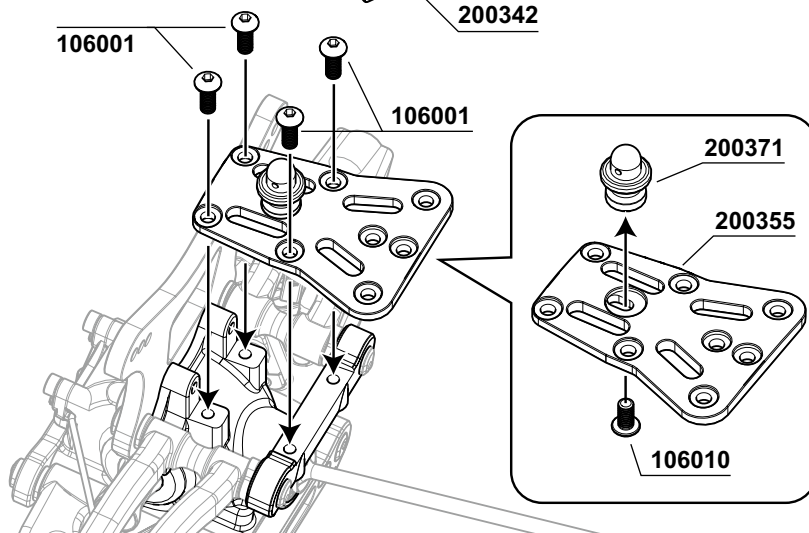
330332
Front Upper Arm Hing Pin x2



106010
M3x6mm Hex Socket OH/TP Screw x1



106001
M3x8mm Hex Socket OH/TP Screw x4

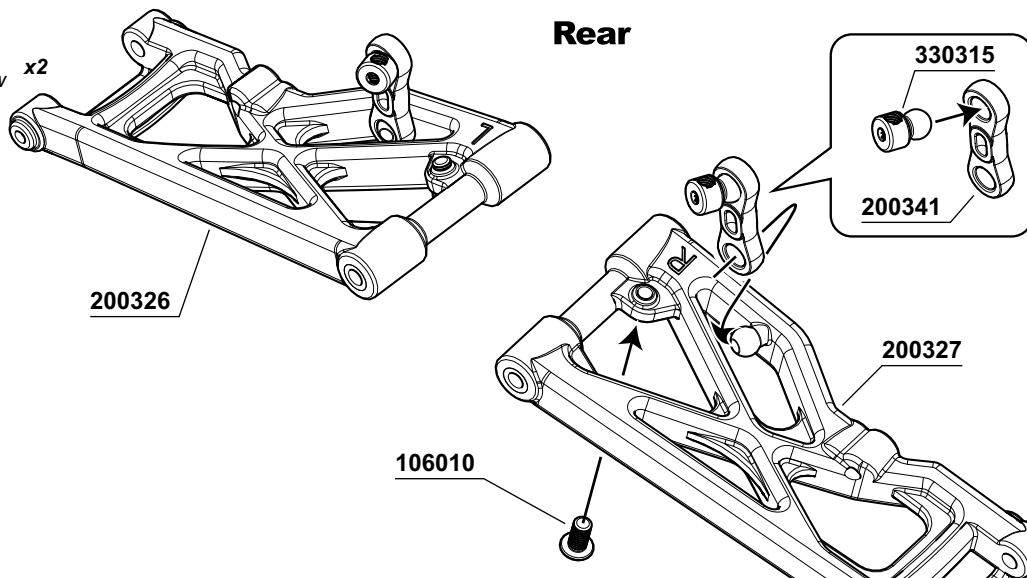


106010
M3x6mm Hex Socket OH/TP Screw x2



330315
Sway Bar Ball Stud x2

10 **R L** **x2**





108006
M3x8mm FH/ST HEX Screw x2

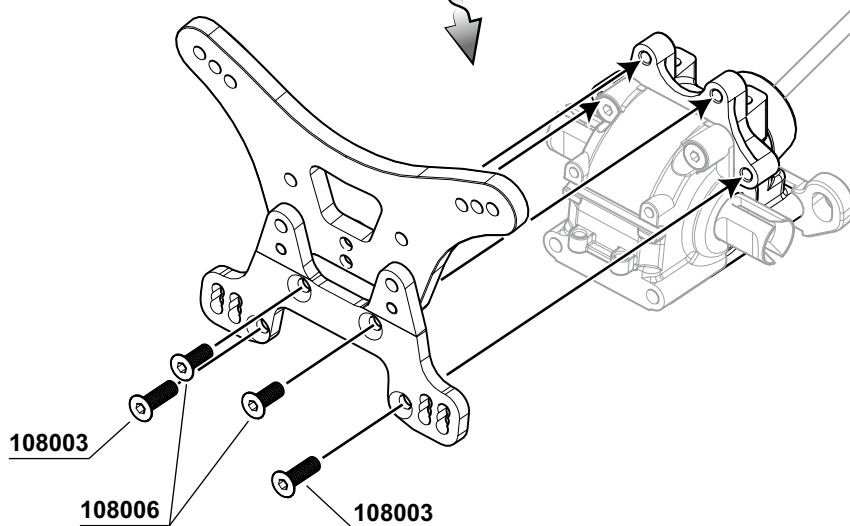
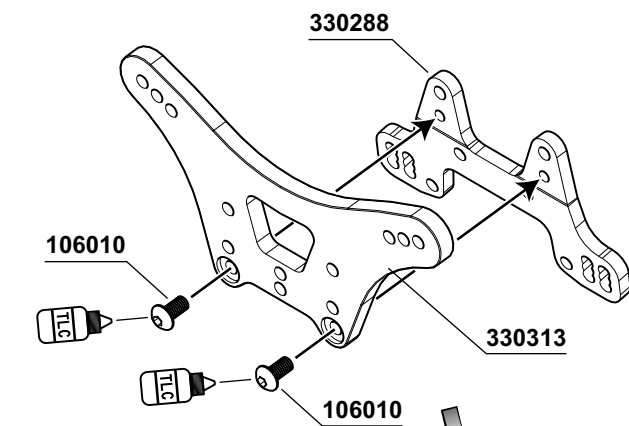


108003
M3x10mm FH/ST HEX Screw x2

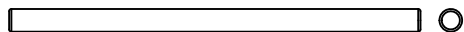


106010
M3x6mm Hex Socket OH/TP Screw x2

11

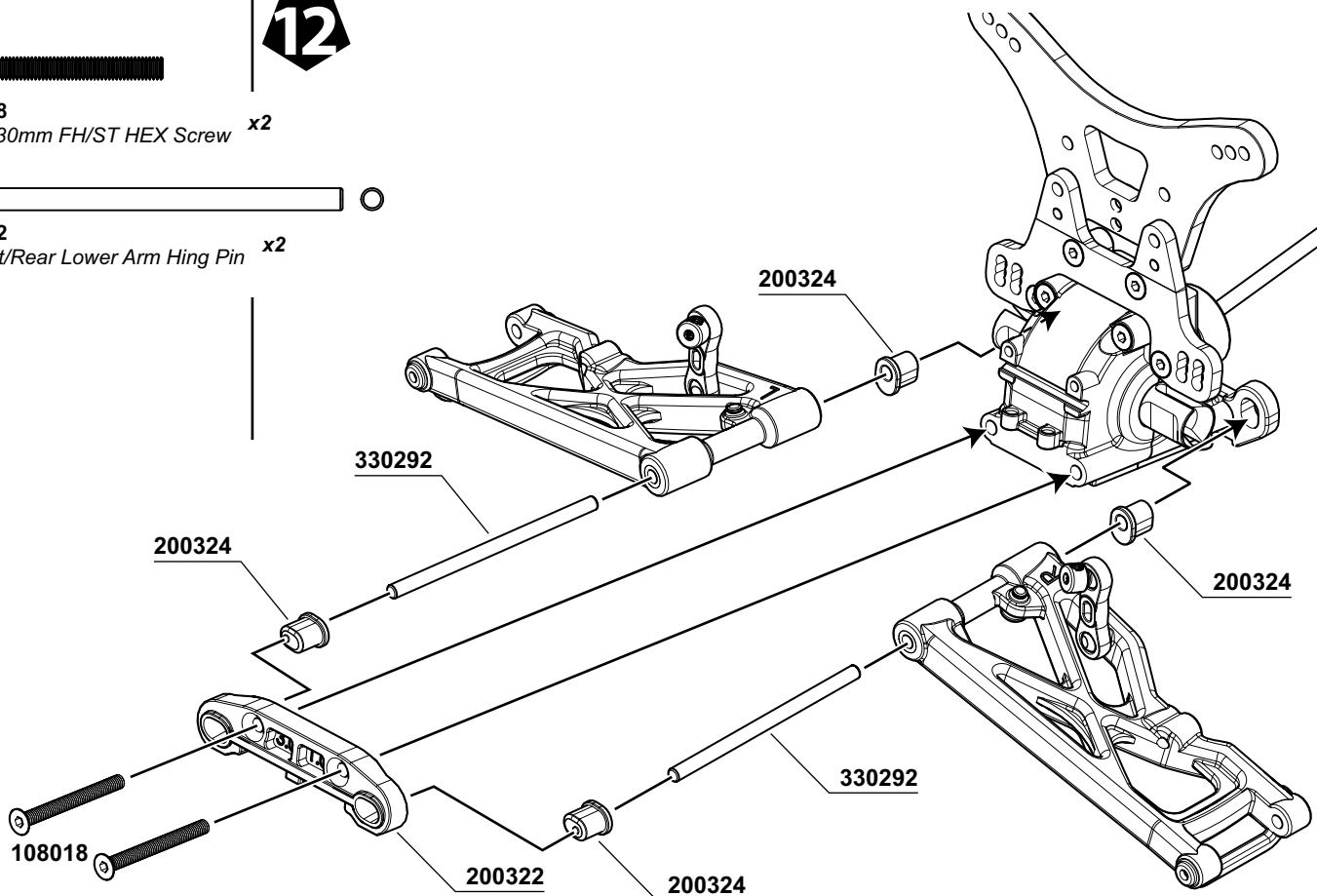


108018
M3x30mm FH/ST HEX Screw x2



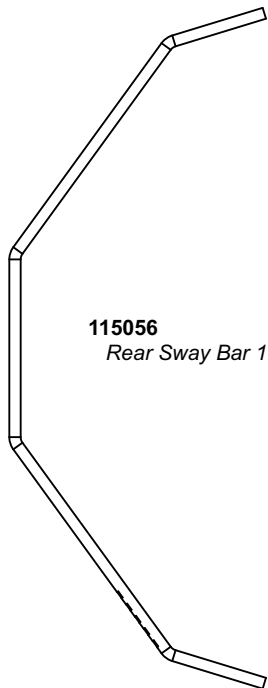
330292
Front/Rear Lower Arm Hing Pin x2

12



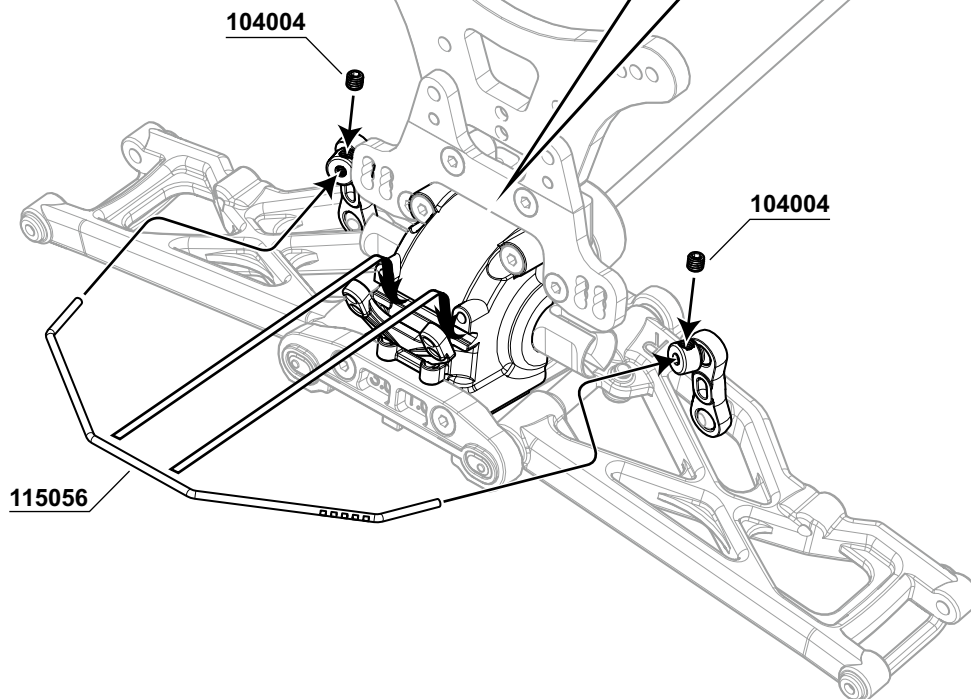
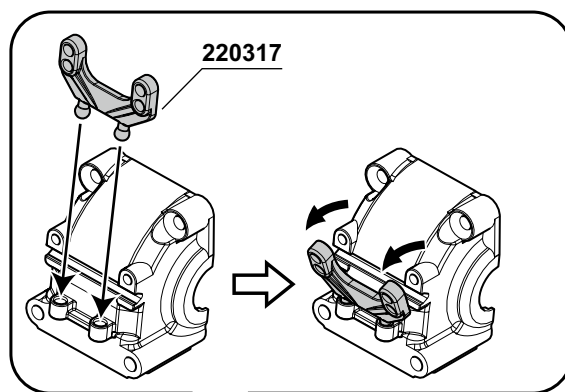


104004
M3x3mm Set Screw x2



115056
Rear Sway Bar 1.5mm x1

13



104005
M3x4mm Set Screw x2



105004
M2.6x6mm Cap Screw x2



103001
M3 Nut Lock x2

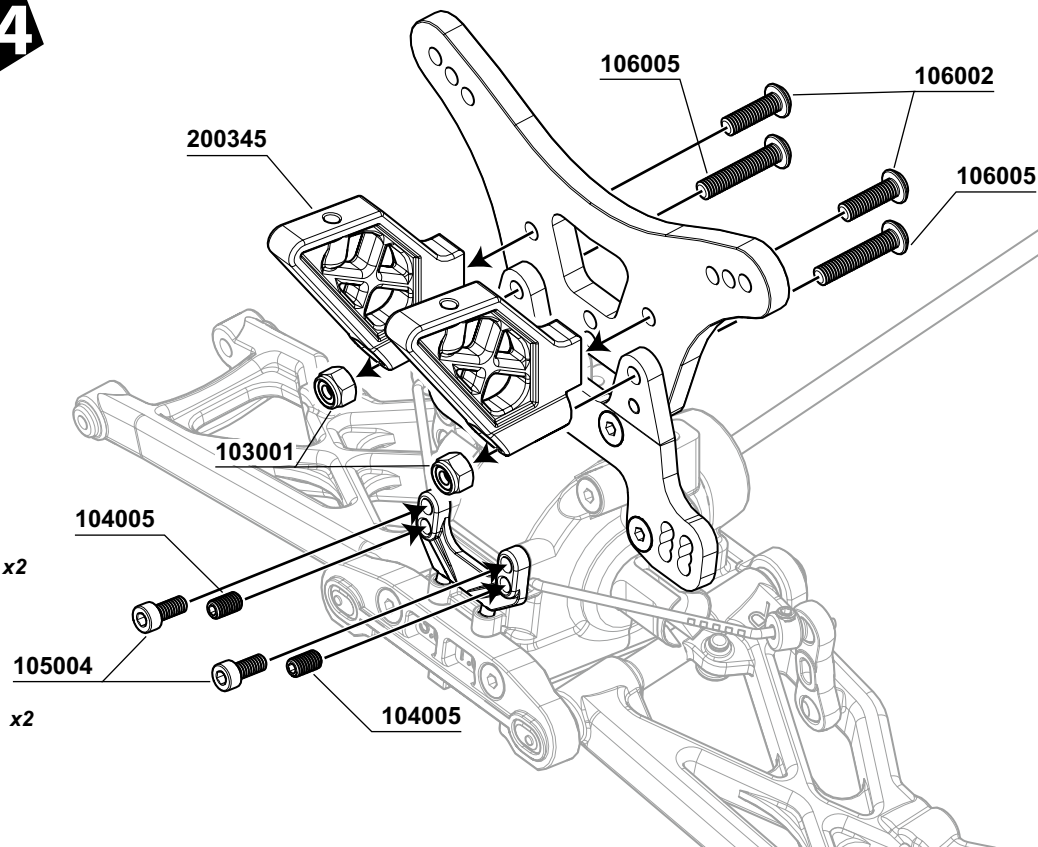


106002
M3x10mm Hex Socket OH/TP Screw x2



106005
M3x15mm Hex Scket OH/TP Screw x2

14

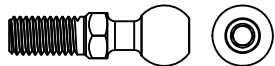




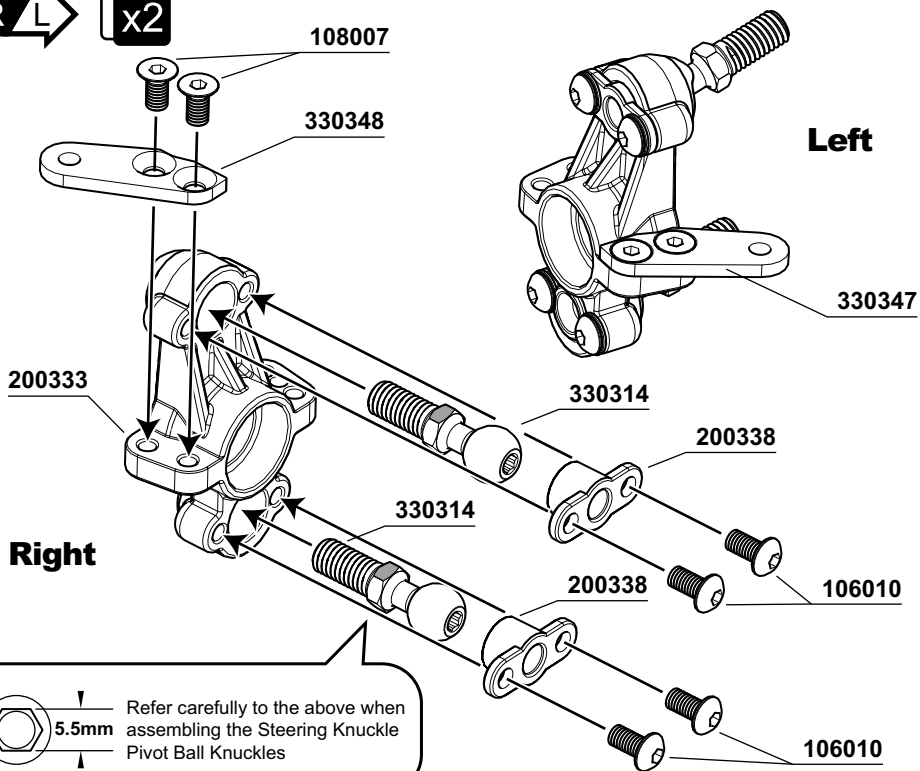
106010
M3x6mm Hex Socket OH/TP Screw x8



108007
M3x6mm FH/ST HEX Screw x4



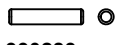
330314
Steering Knuckle Pivot Ball Turnbuckle x4



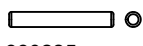
104008
M4x4mm Set Screw x2



330295
CVD Join x2



330283
Pin M2x10mm x2



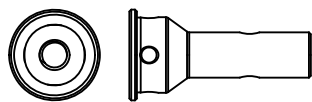
330285
Pin M2x14mm x2



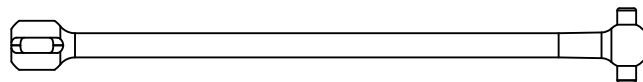
116014
Ball Bearing 6x13x5mm x2



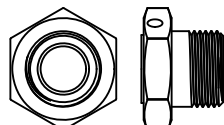
116013
Ball Bearing 10x15x4mm x2



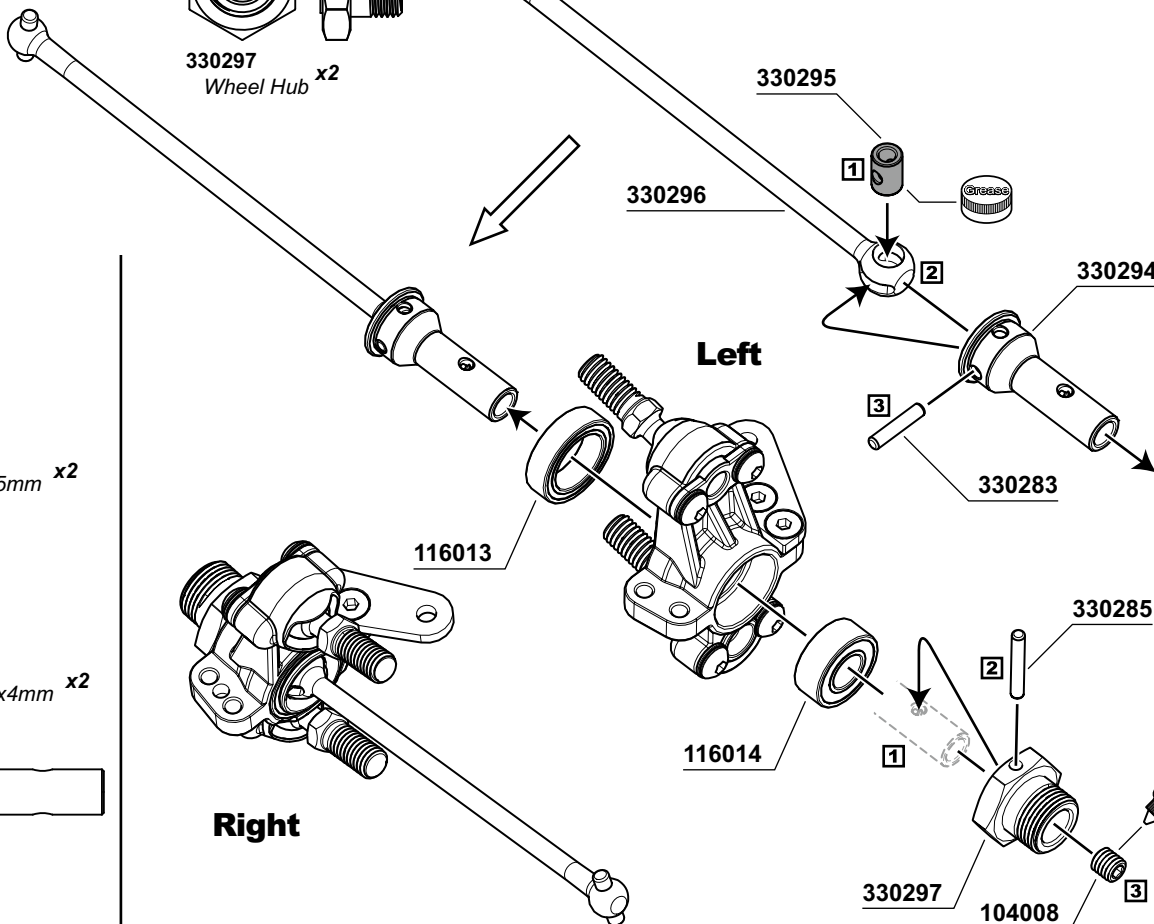
330294
CVD Axle x2



330296
F/R Drive Shaft 78mm x2



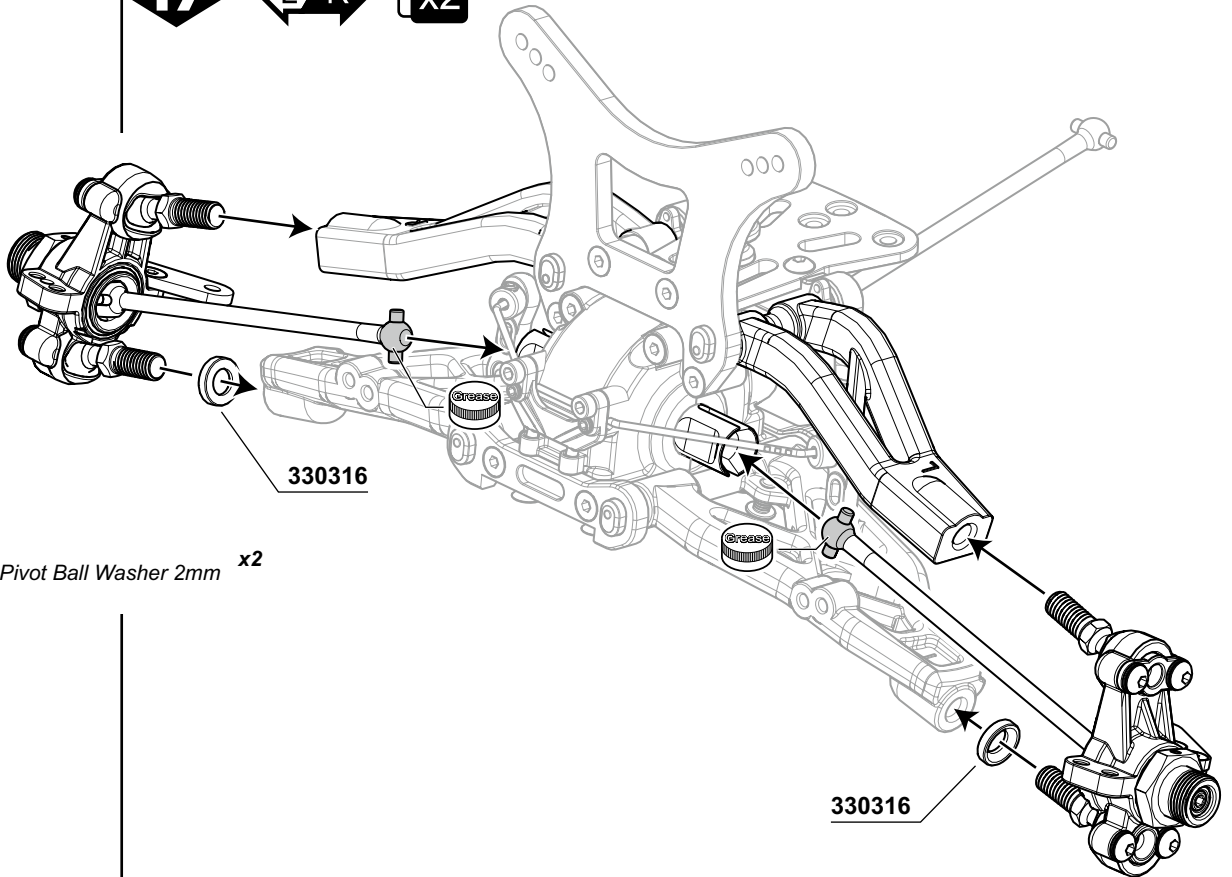
330297
Wheel Hub x2



17  **x2**



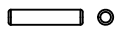
330316
Aluminum Knuckle Pivot Ball Washer 2mm **x2**



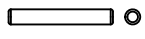
104008
M4x4mm Set Screw **x2**



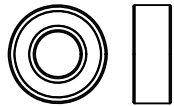
330295
CVD Join **x2**



330283
Pin M2x10mm **x2**



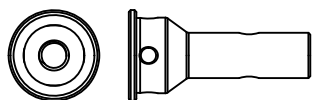
330285
Pin M2x14mm **x2**



116014
Ball Bearing 6x13x5mm **x2**

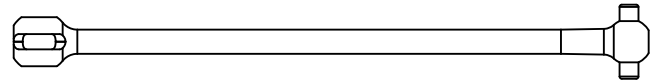


116013
Ball Bearing 10x15x4mm **x2**

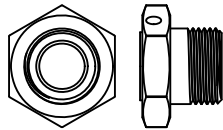


330294
CVD Axle **x2**

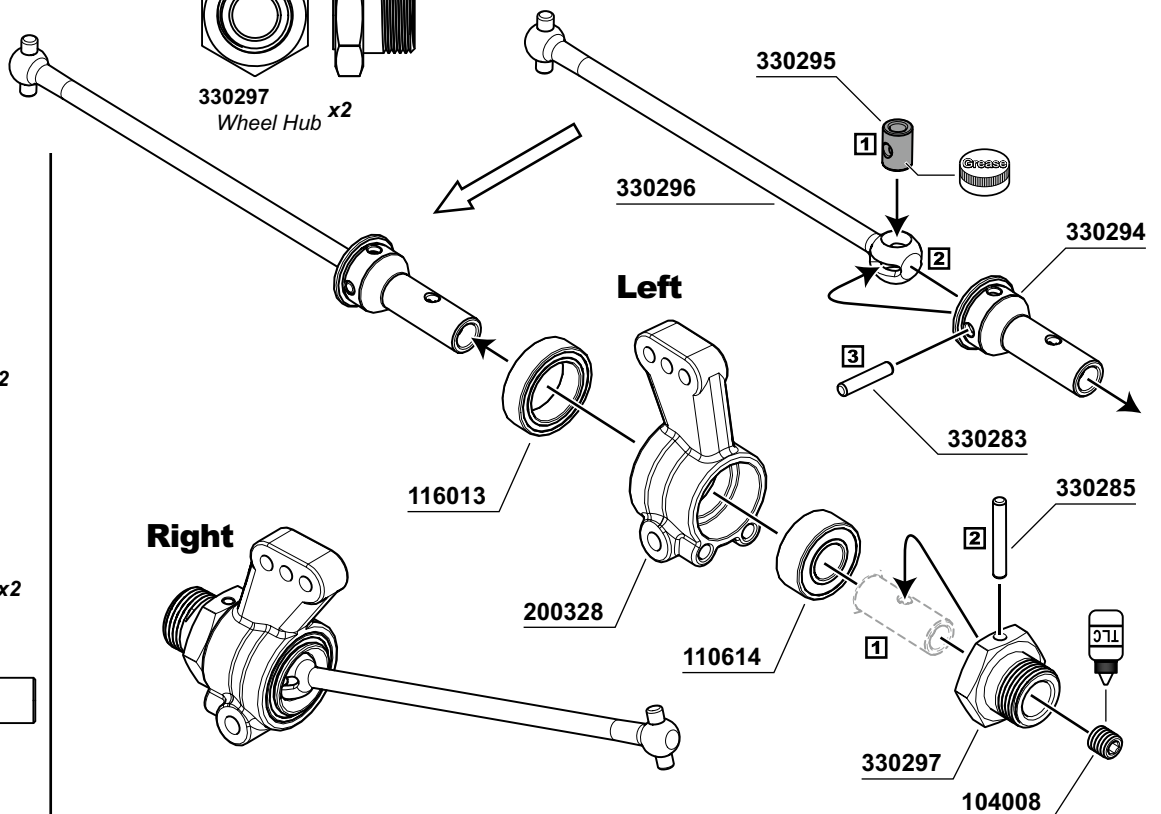
18   **x2**



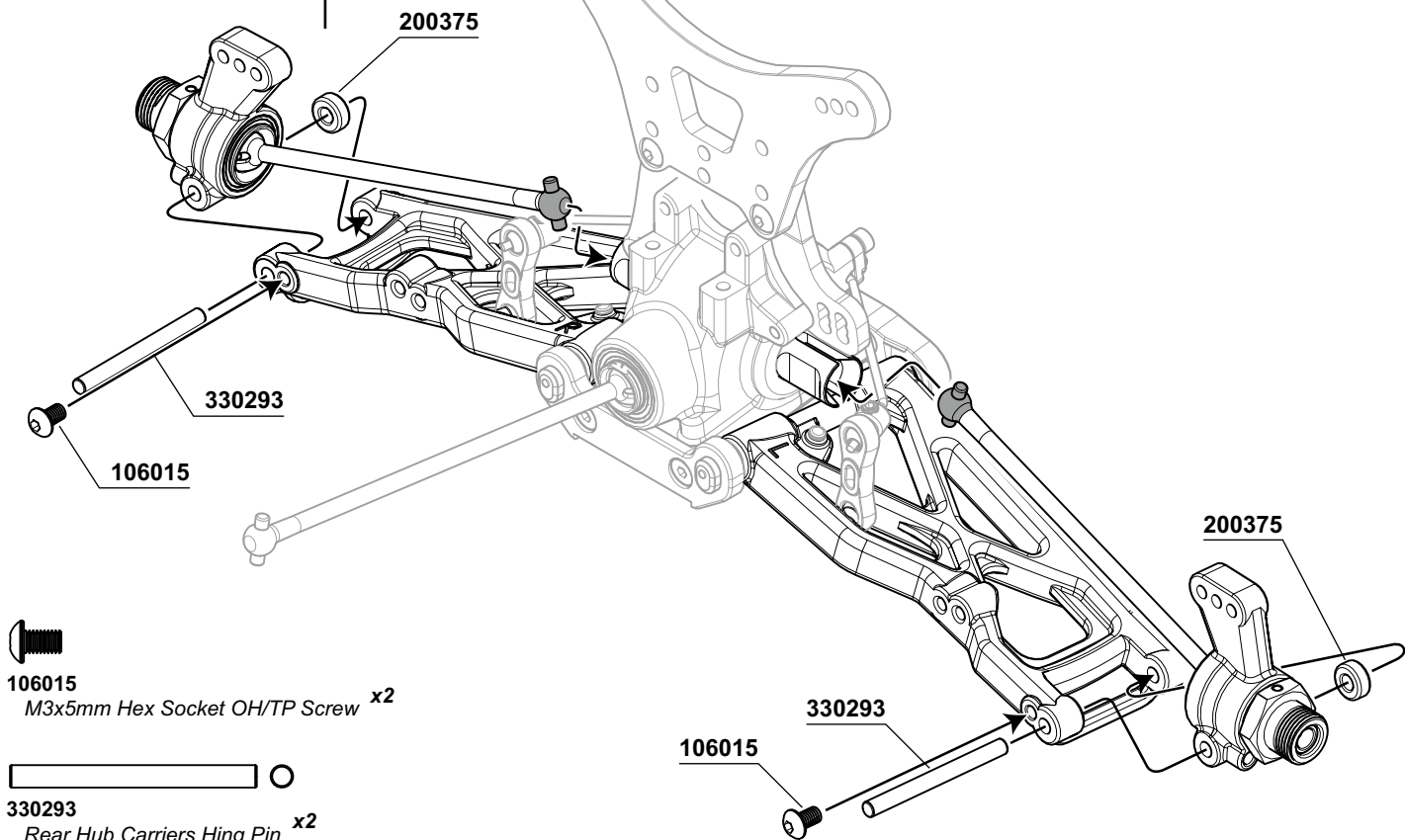
330296
F/R Drive Shaft 78mm **x2**



330297
Wheel Hub **x2**



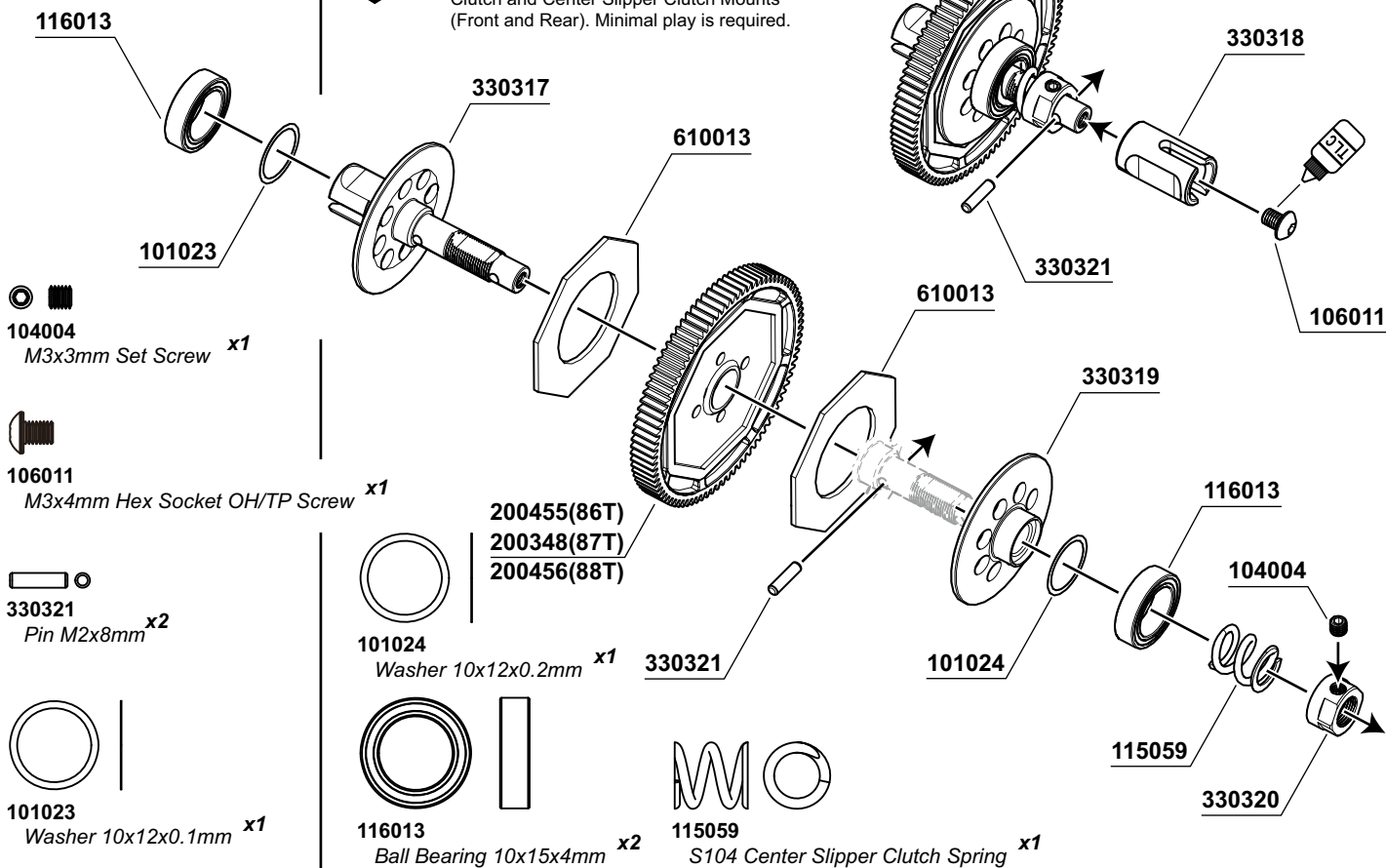
19 **L R** **x2**



BAG F

20

Use 10x12x0.1mm or 10x12x0.2mm shims to adjust the play between the Center Slipper Clutch and Center Slipper Clutch Mounts (Front and Rear). Minimal play is required.





103001
M3 Nut Lock **x2**



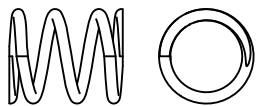
106001
M3x8mm Hex Socket OH/TP Screw **x2**



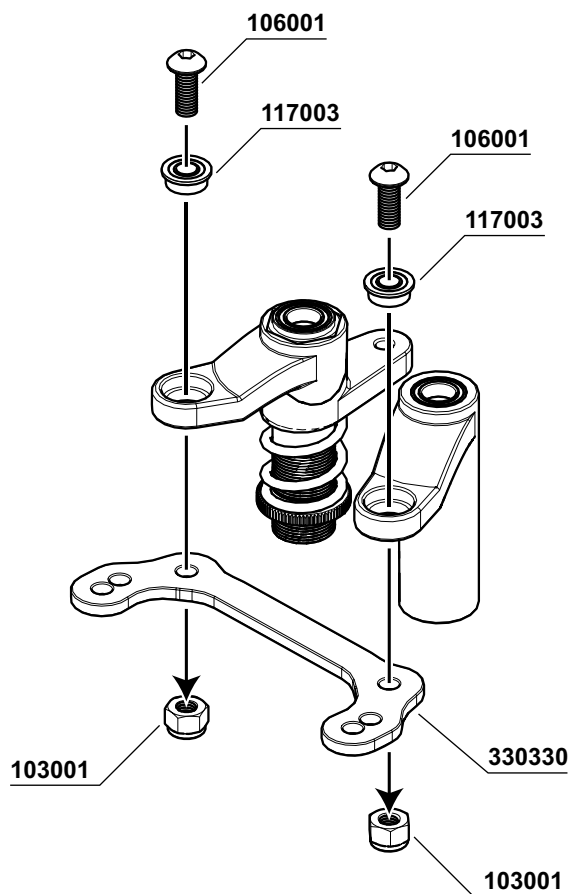
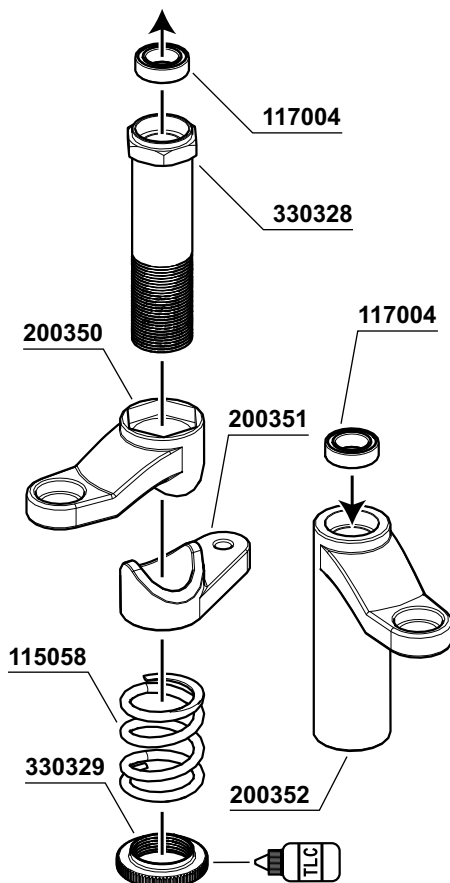
117003
Flange Ball Bearing 3x6x2.5mm **x2**



117004
Bushing 5x8x2.5mm **x2**



115058
Servo Saver Spring **x1**



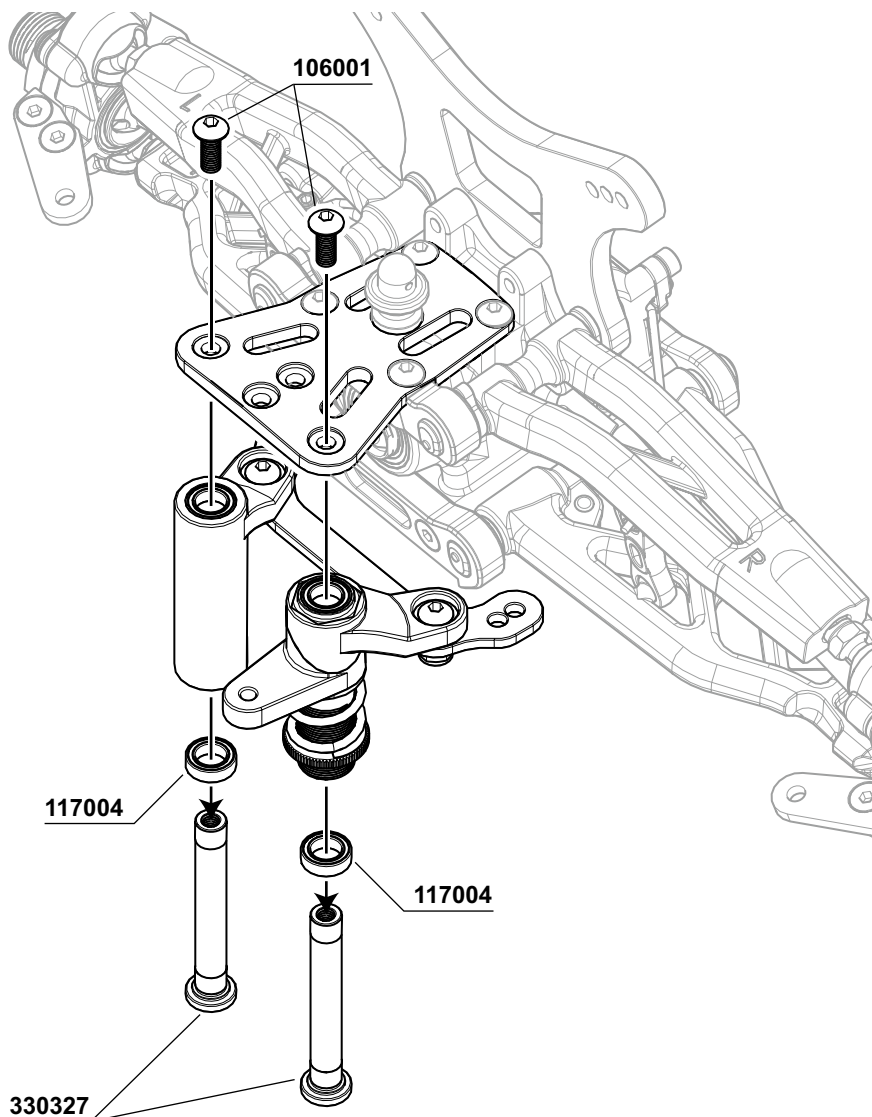


106001
M3x8mm Hex Socket OH/TP Screw **x2**



117004
Bushing 5x8x2.5mm **x2**

23

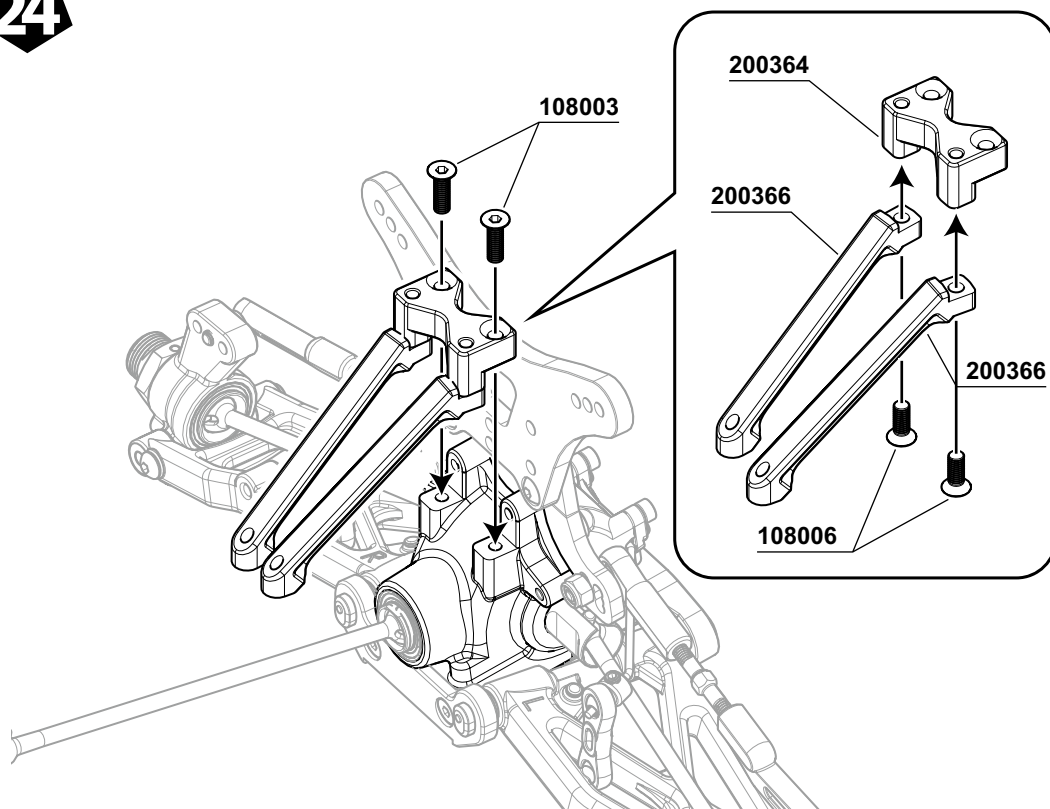


108006
M3x8mm FH/ST HEX Screw **x2**



108003
M3x10mm FH/ST HEX Screw **x2**

24

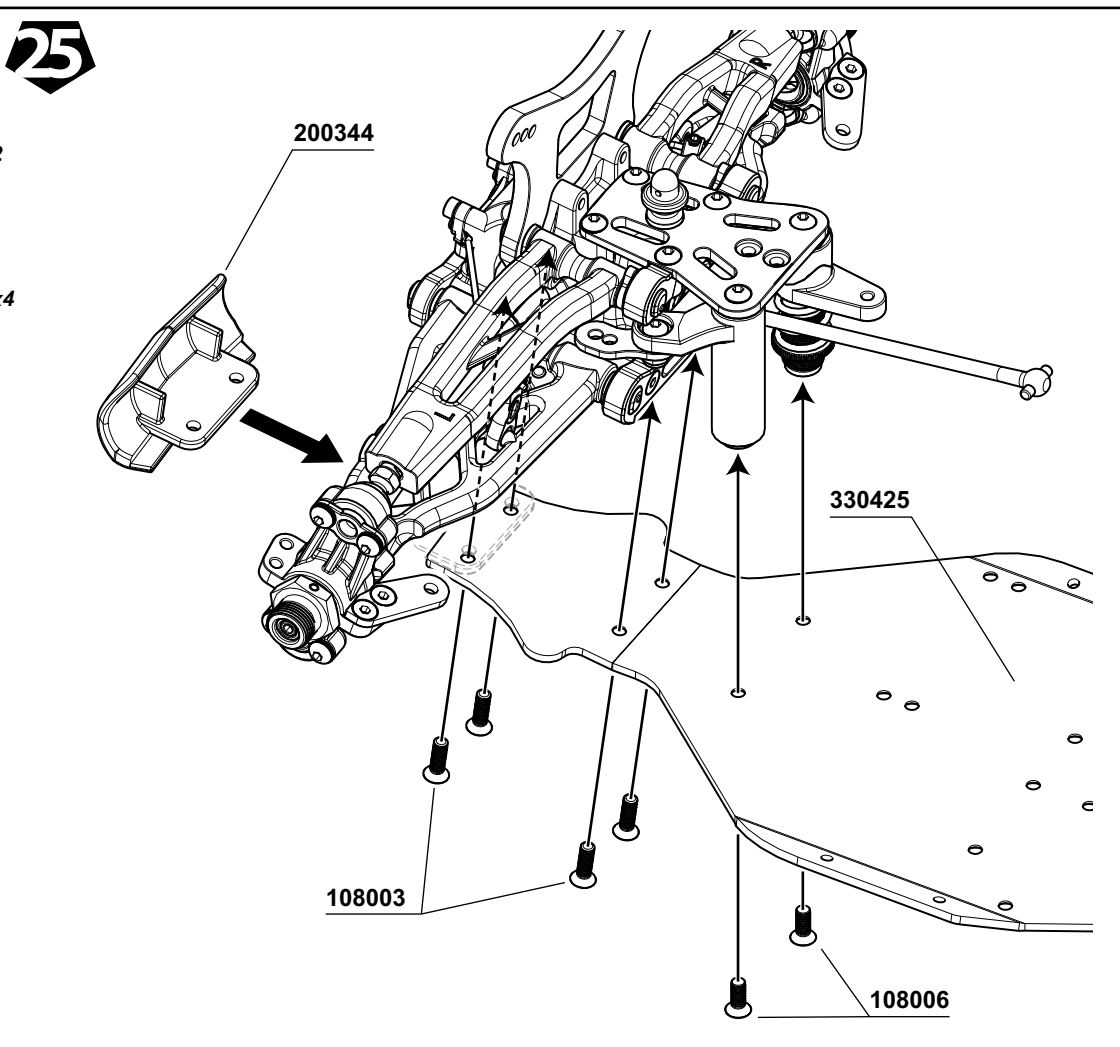




108006
M3x8mm FH/ST HEX Screw x2



108003
M3x10mm FH/ST HEX Screw x4



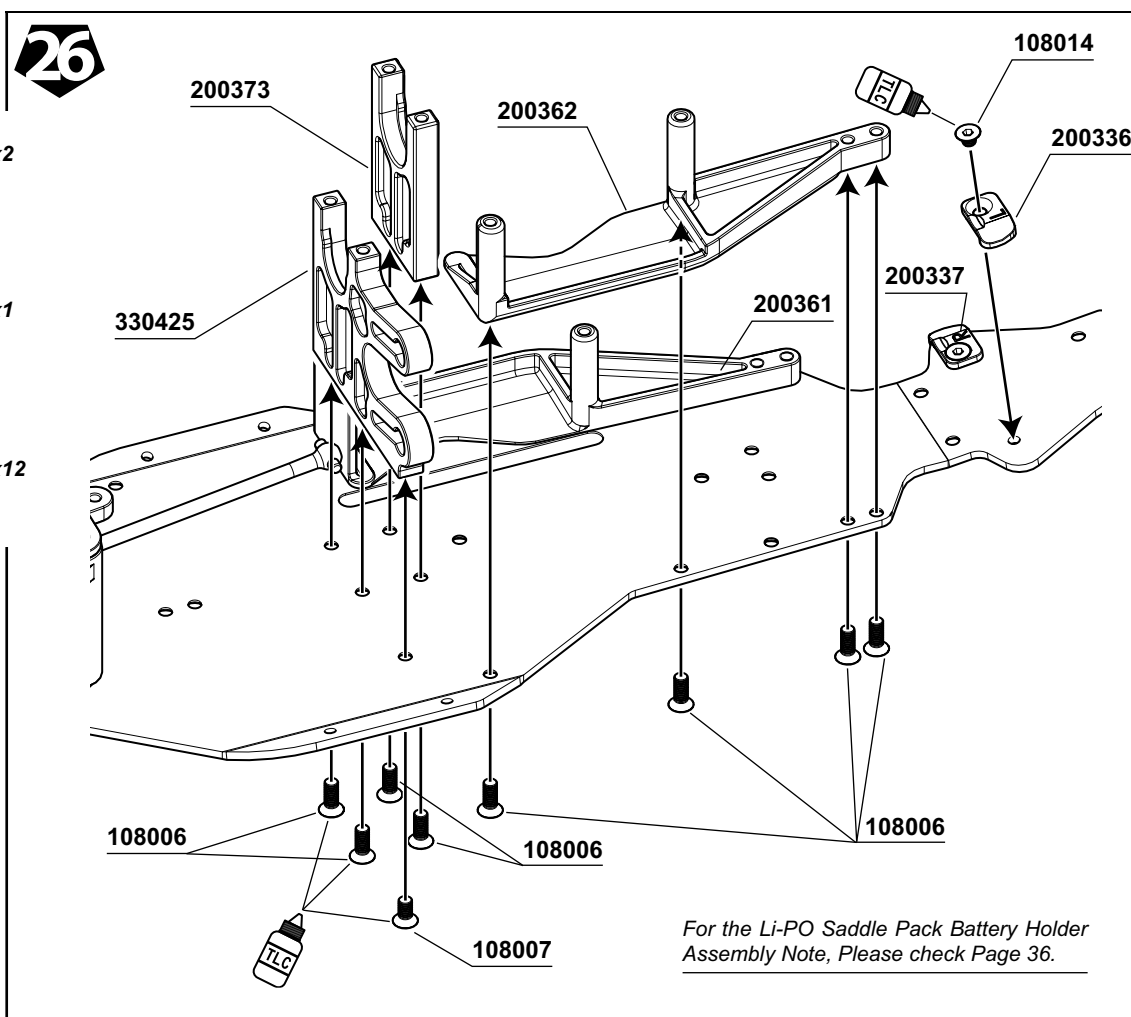
108014
M3x3mm FH/ST HEX Screw x2



108007
M3x6mm FH/ST HEX Screw x1



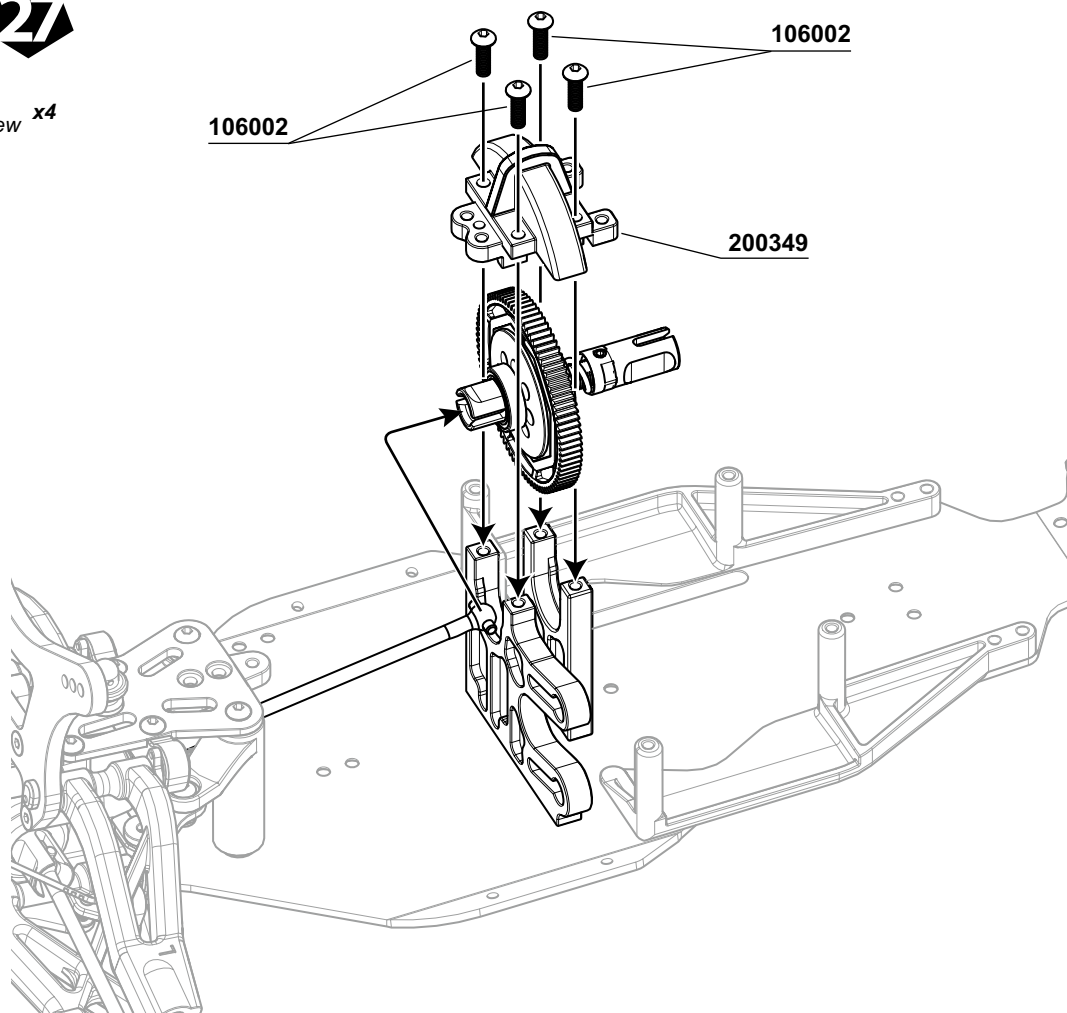
108006
M3x8mm FH/ST HEX Screw x12





106002
M3x10mm Hex Socket OH/TP Screw **x4**

27

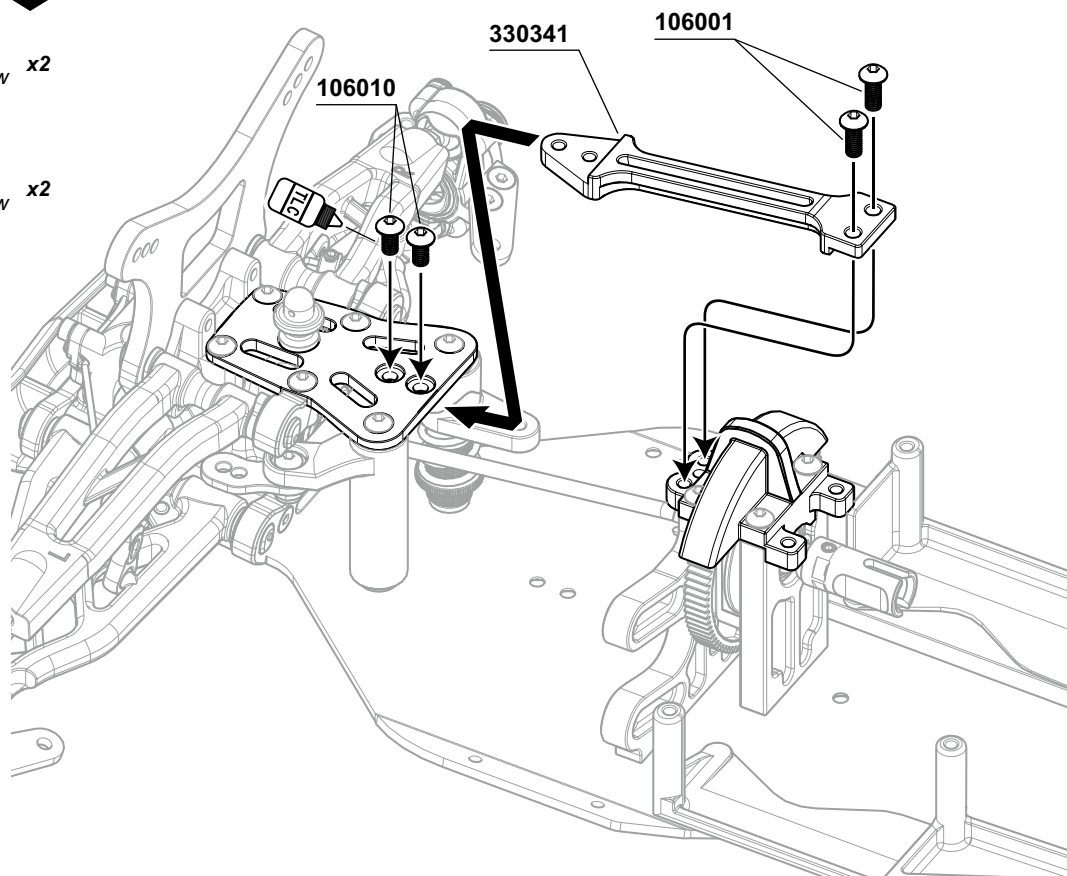


106010
M3x6mm Hex Socket OH/TP Screw **x2**



106001
M3x8mm Hex Socket OH/TP Screw **x2**

28





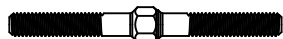
108006
M3x8mm FH/ST HEX Screw x2



108003
M3x10mm FH/ST HEX Screw x4



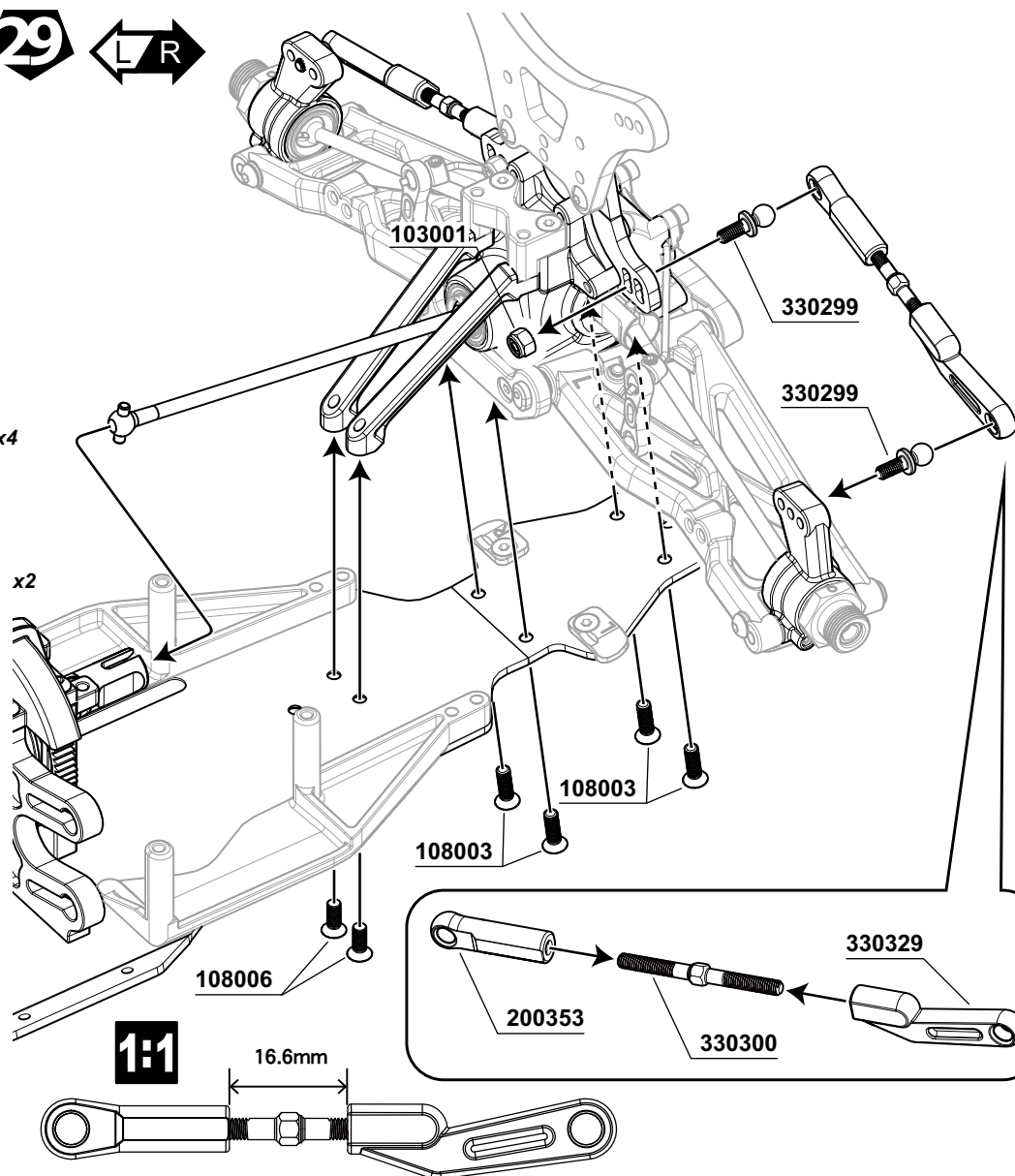
330299
Steering Linkage Ball Stud 5mm x4



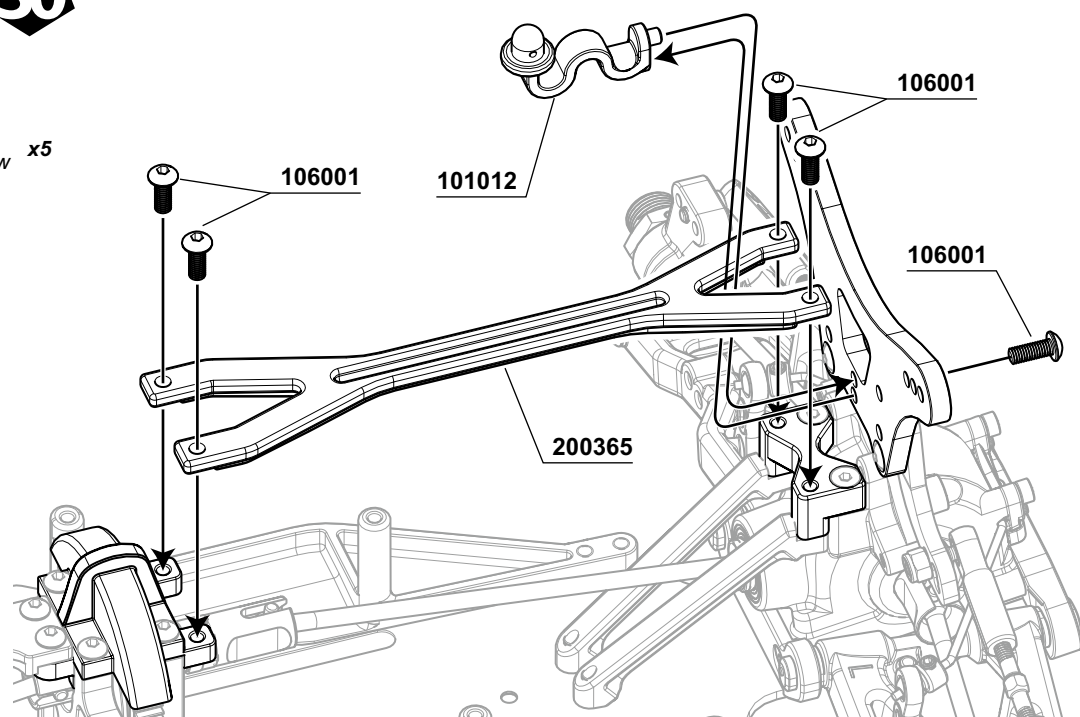
330300
Rear Upper Sus. Arm Turnbuckles x2

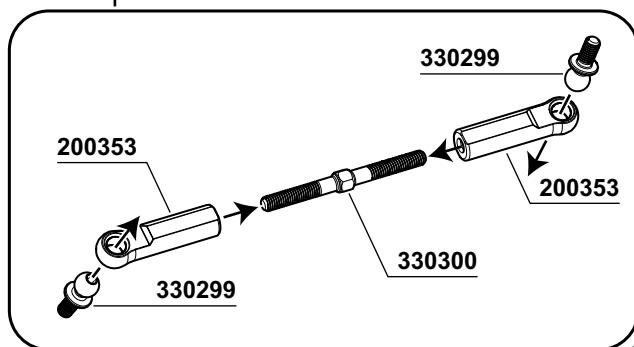


103001
M3 Nut Lock x2

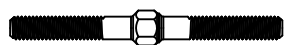


106001
M3x8mm Hex Socket OH/TP Screw x5





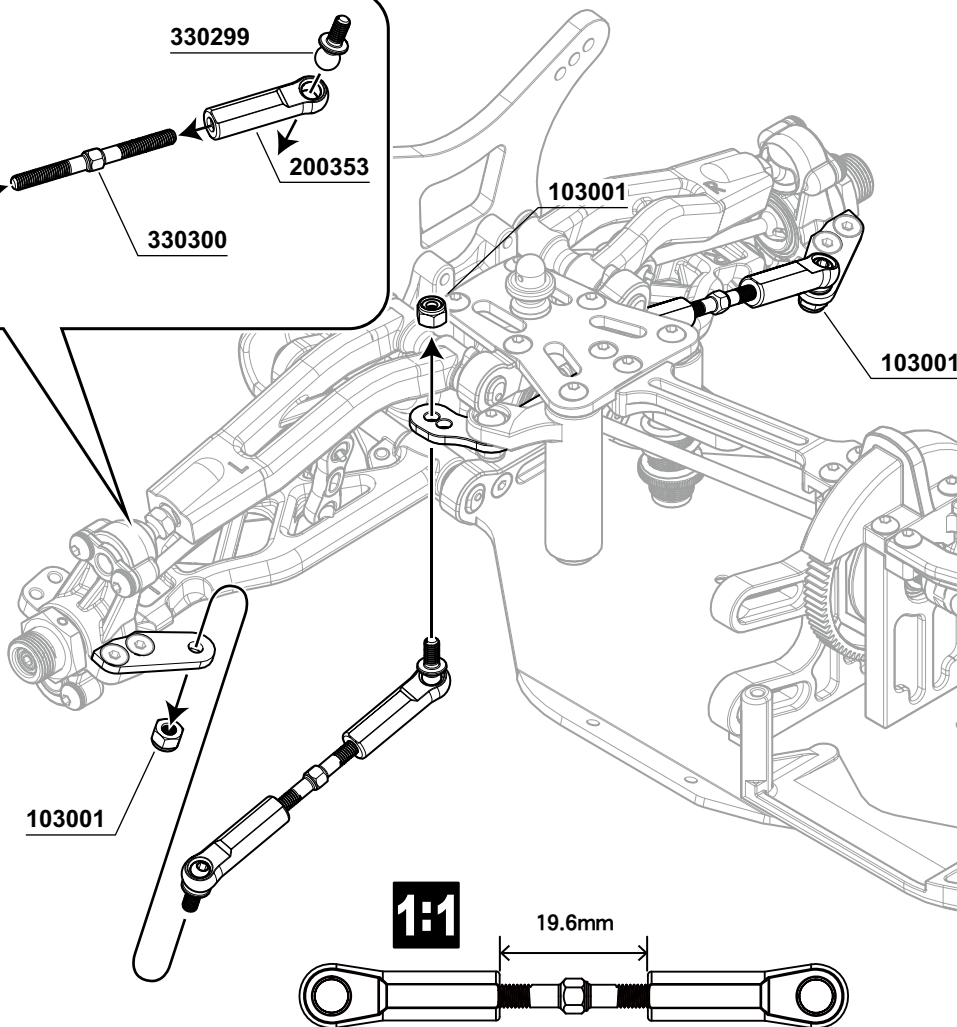
330299
Steering Linkage Ball Stud 5mm x4



330300
Rear Upper Sus. Arm Turnbuckles x2



103001
M3 Nut Lock x4



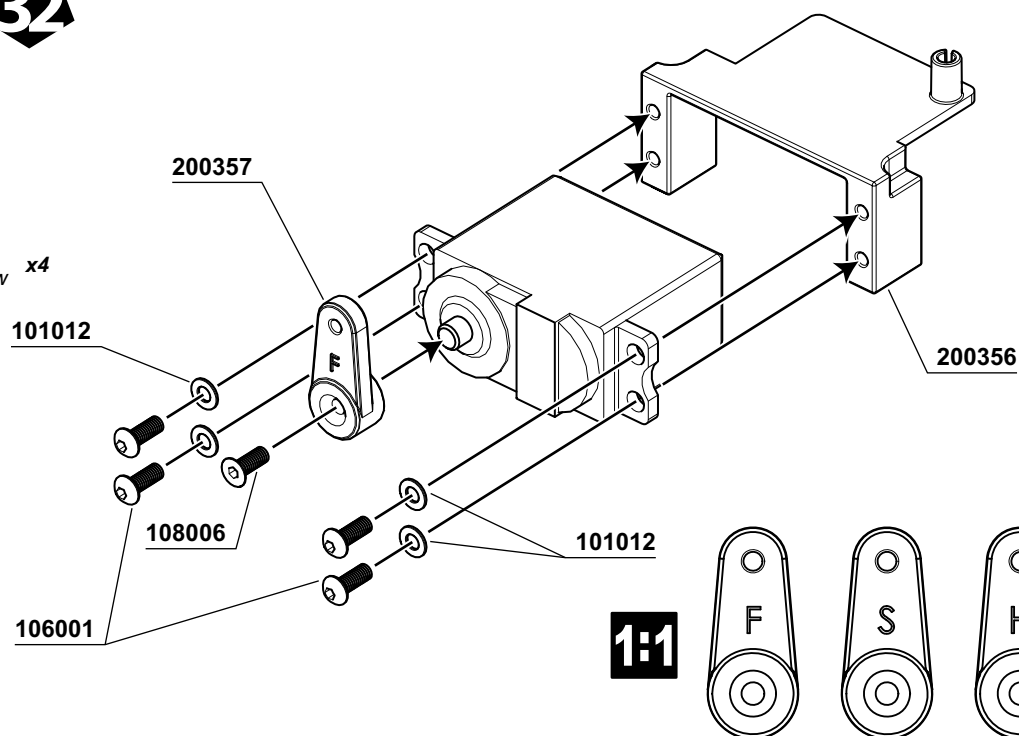
108006
M3x8mm FH/ST HEX Screw x1



106001
M3x8mm Hex Socket OH/TP Screw x4



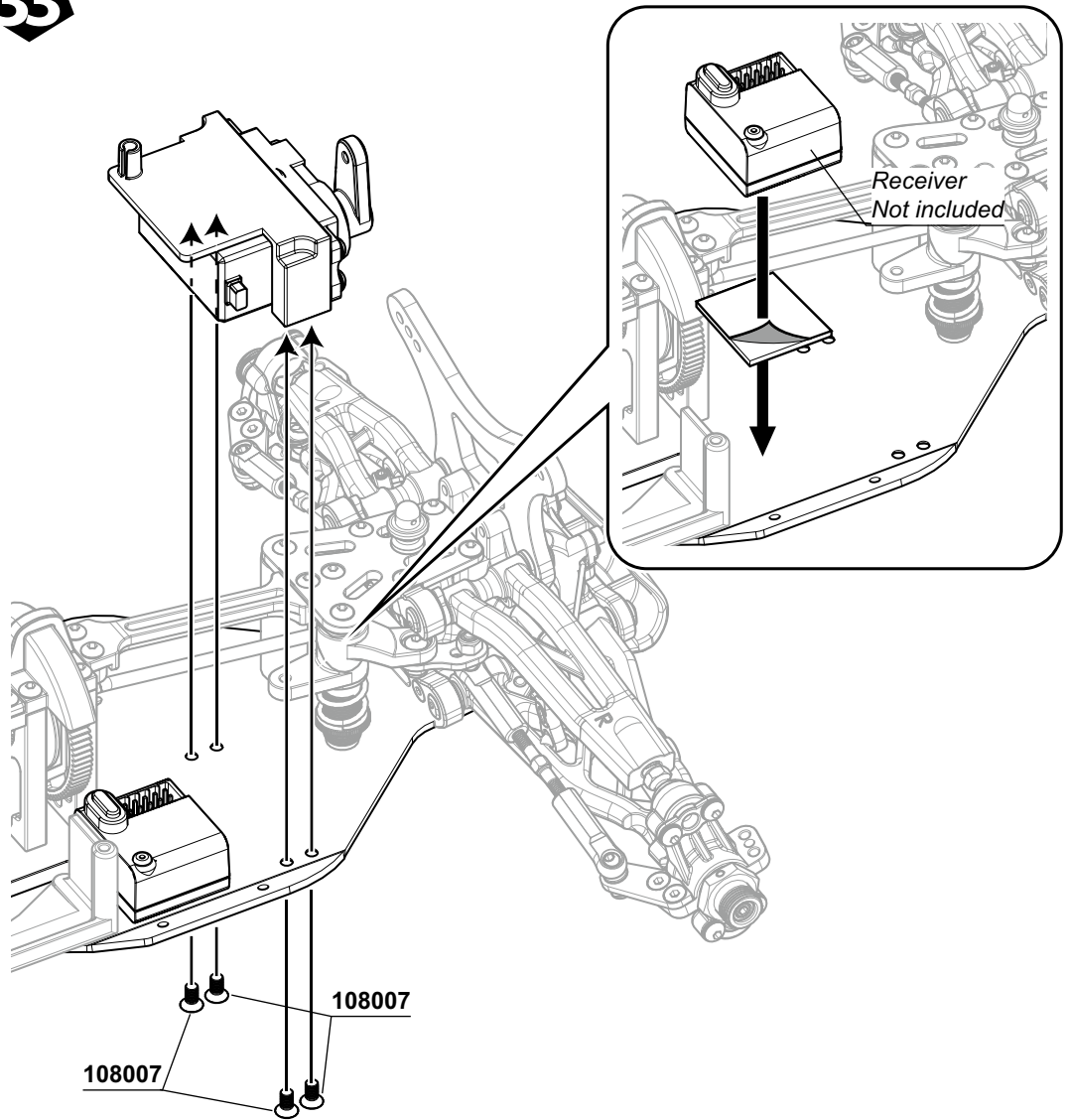
101012
Washer M3x6xT0.5mm x4





108007
M3x6mm FH/ST HEX Screw **x4**

33

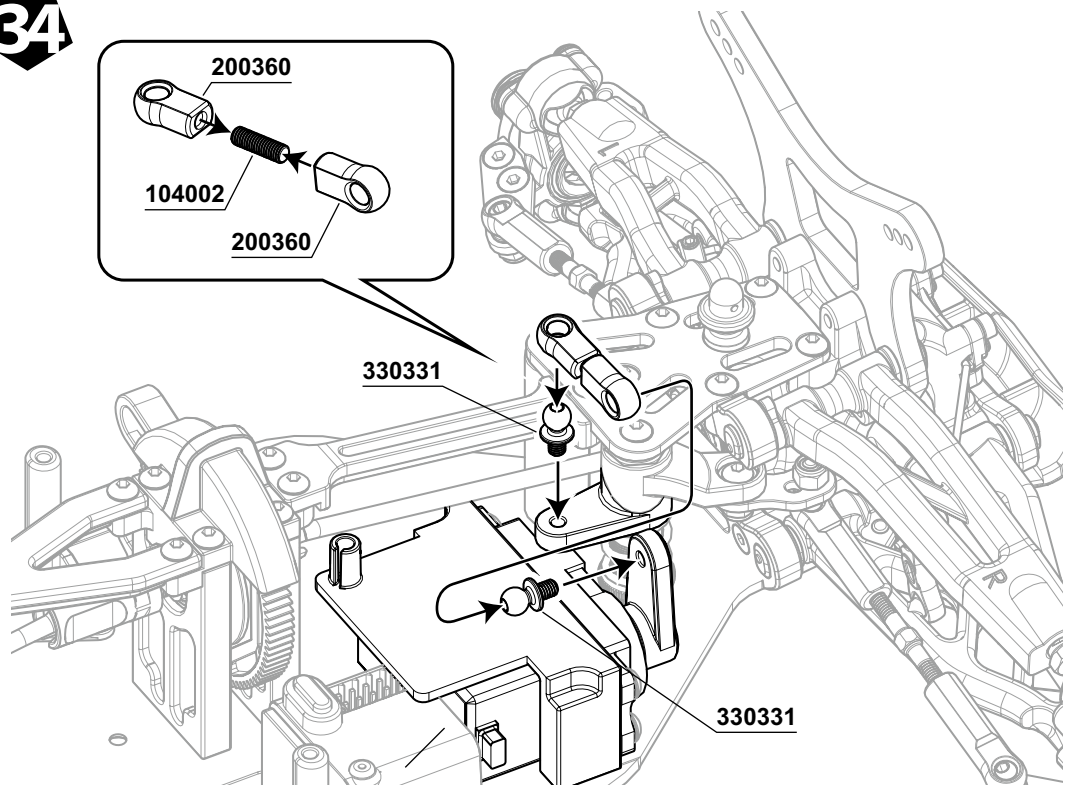


330331
Steering Linkage Ball Stud 5mm **x2**

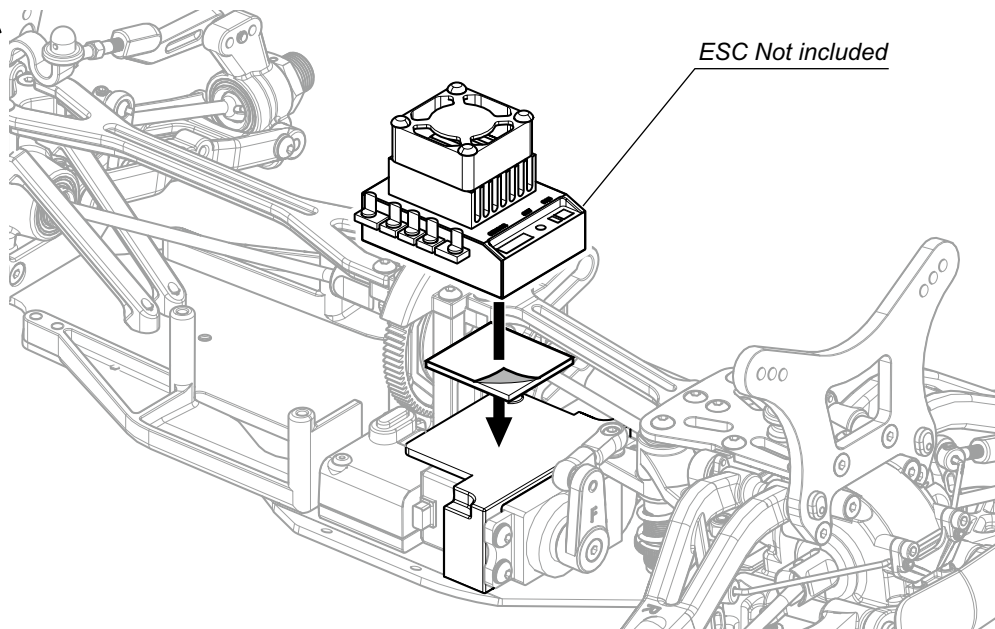


104002
M3x10mm Set Screw **x1**

34



35



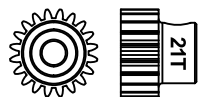
104004
M3x3mm Set Screw **x1**



106001
M3x8mm Hex Socket OH/TP Screw **x2**

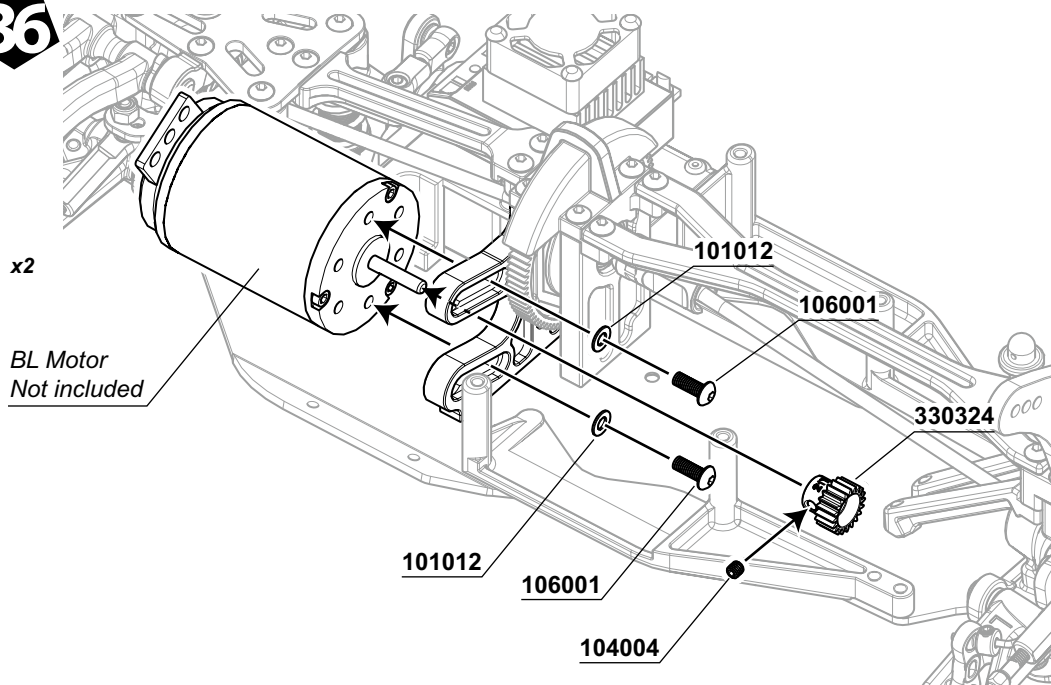


101012
Washer M3x6xT0.5mm **x2**



330410
S104 Motor Gear 21T **x1**

36

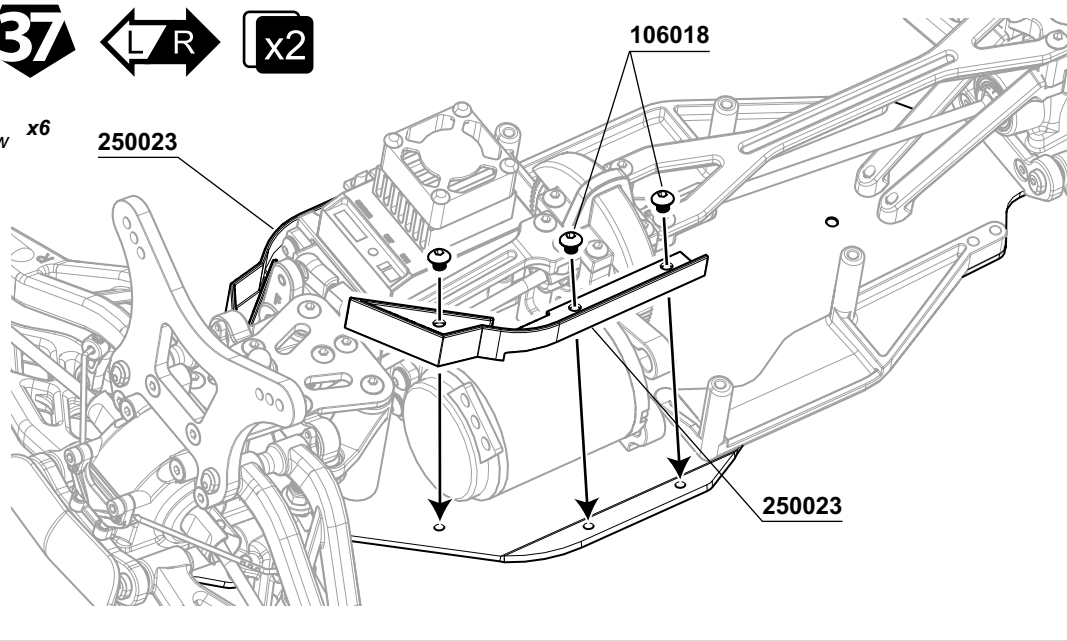


106018
M3x3mm Hex Socket OH/TP Screw **x6**

37



x2





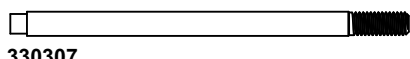
101011 Shock Washer 2.6x6x0.5mm x4



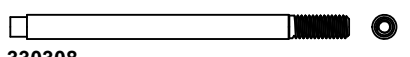
330306 Shock Washer 3.3x6.5x2.5mm x4



400013 Shock Seal O-ring 2x2.7mm x8



330307 Shock Shaft L x2



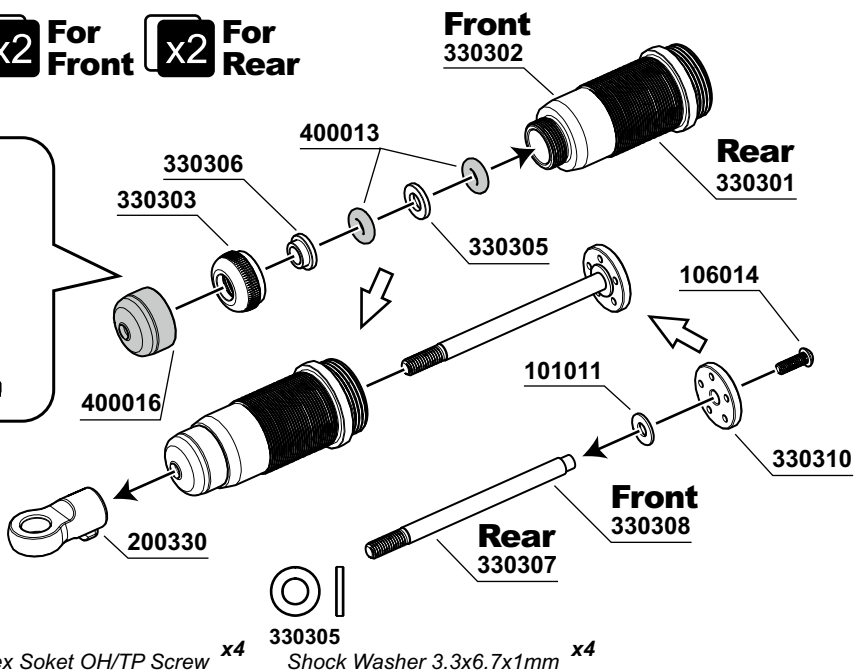
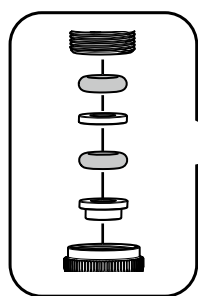
330308 Shock Shaft S x2



106014 M2x6mm Hex Scket OH/TP Screw x4



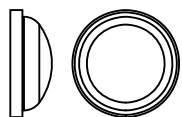
330305 Shock Washer 3.3x6.7x1mm x4



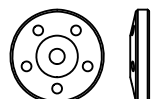
330303 Aluminum Shock Seal Cover x4



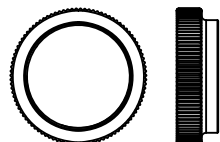
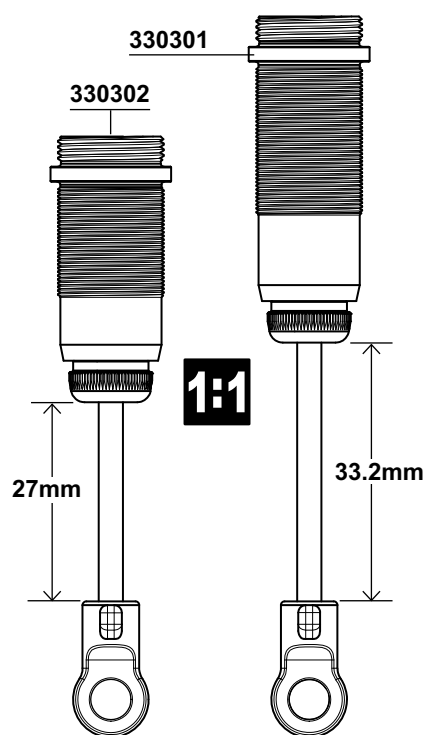
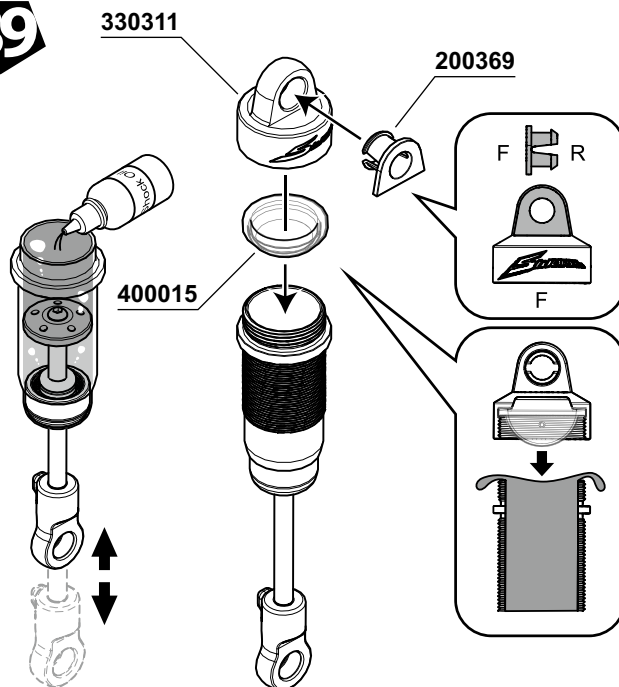
400016 Shock Boot x4



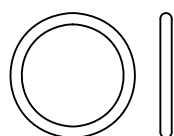
400015 Shock Bladder x4



330310 Shock Piston 1.2mmx5 holes x4



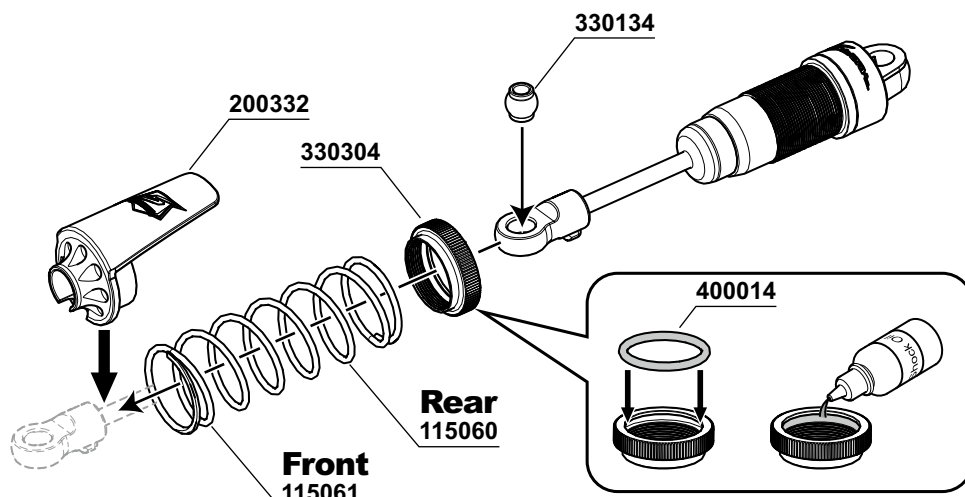
330304 Aluminum Shock Spring Adjust Nut x4



400014 O-Ring 1.5x13.5mm x4



330134 Shock Ball Stud x4





105011
M3x23mm Hex Scket OH/TP Screw x4



330312
Aluminum Shock Cap Studk x4

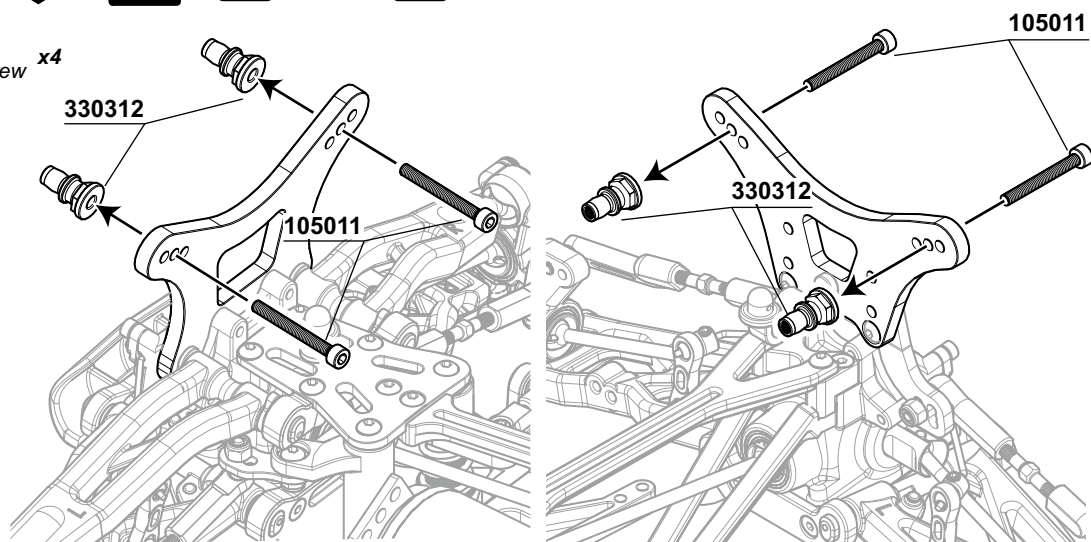
41



For Front



For Rear



103003
Flange M3 Nut Lock x4



106008
M3x12mm Hex Scket OH/TP Screw x4

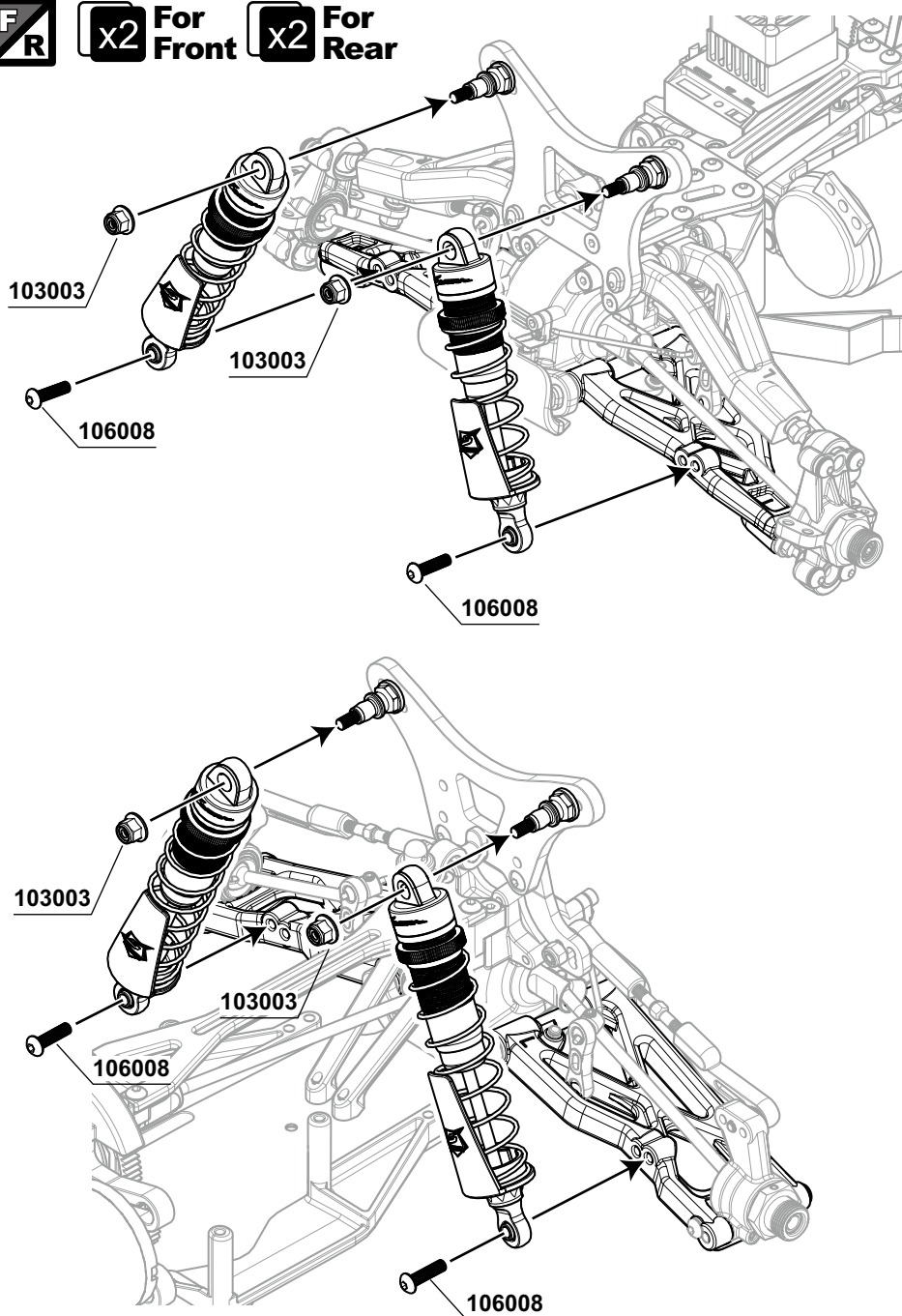
42

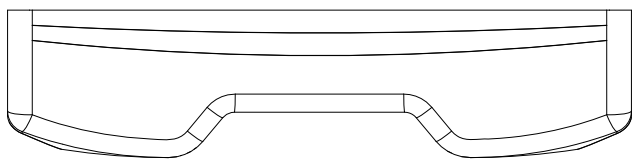


For Front



For Rear

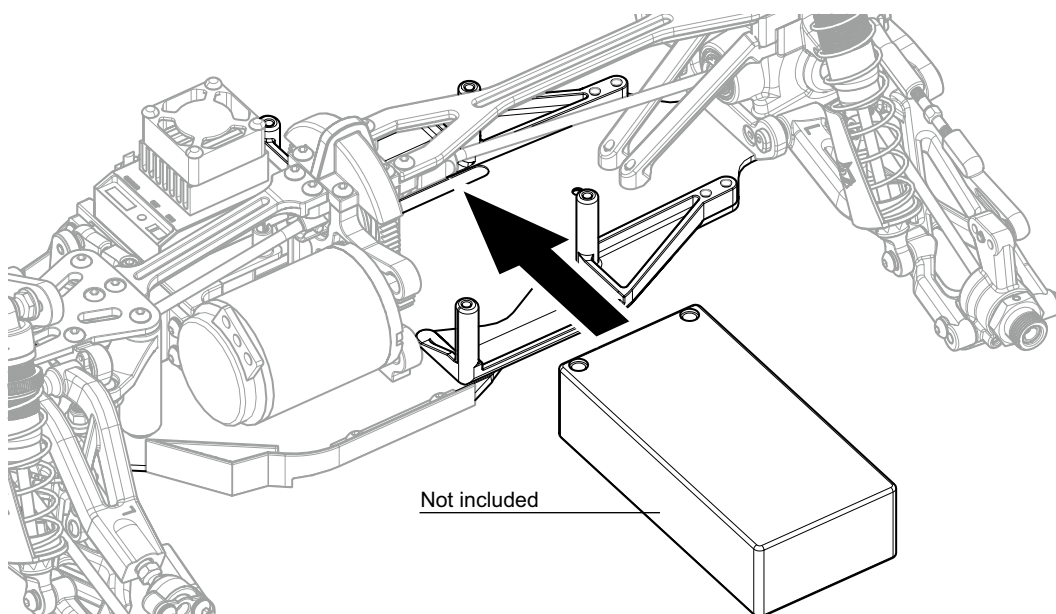
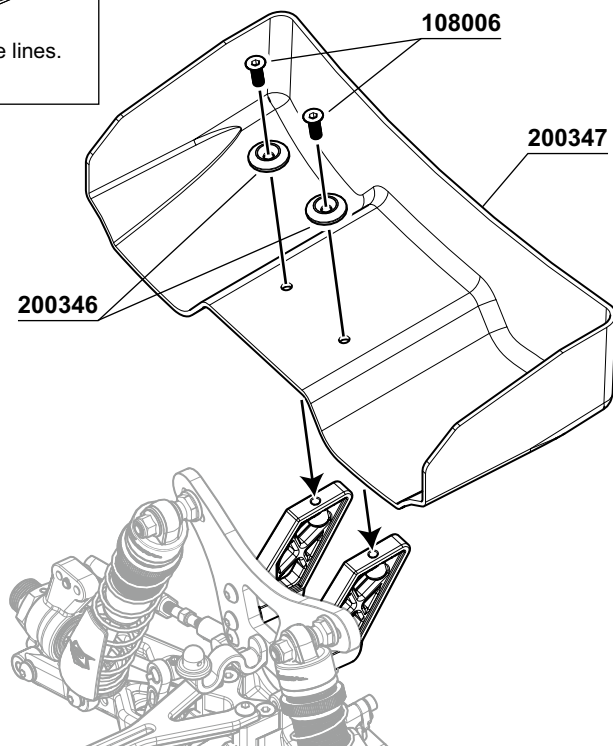




When less down force is needed, cut the rear wing following the lines.



108006
M3x8mm FH/ST HEX Screw x2



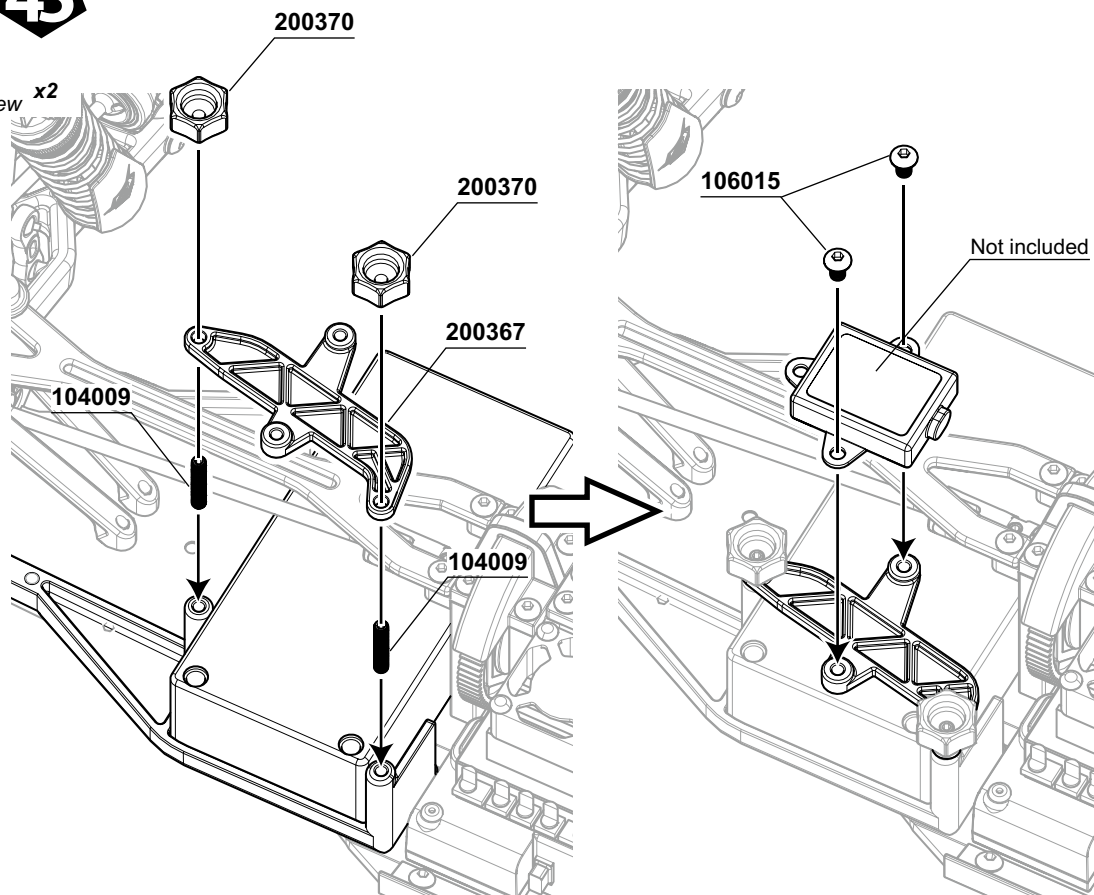
45



106015
M3x5mm Hex Socket OH/TP Screw **x2**



104009
M3x16mm Set Screw **x2**



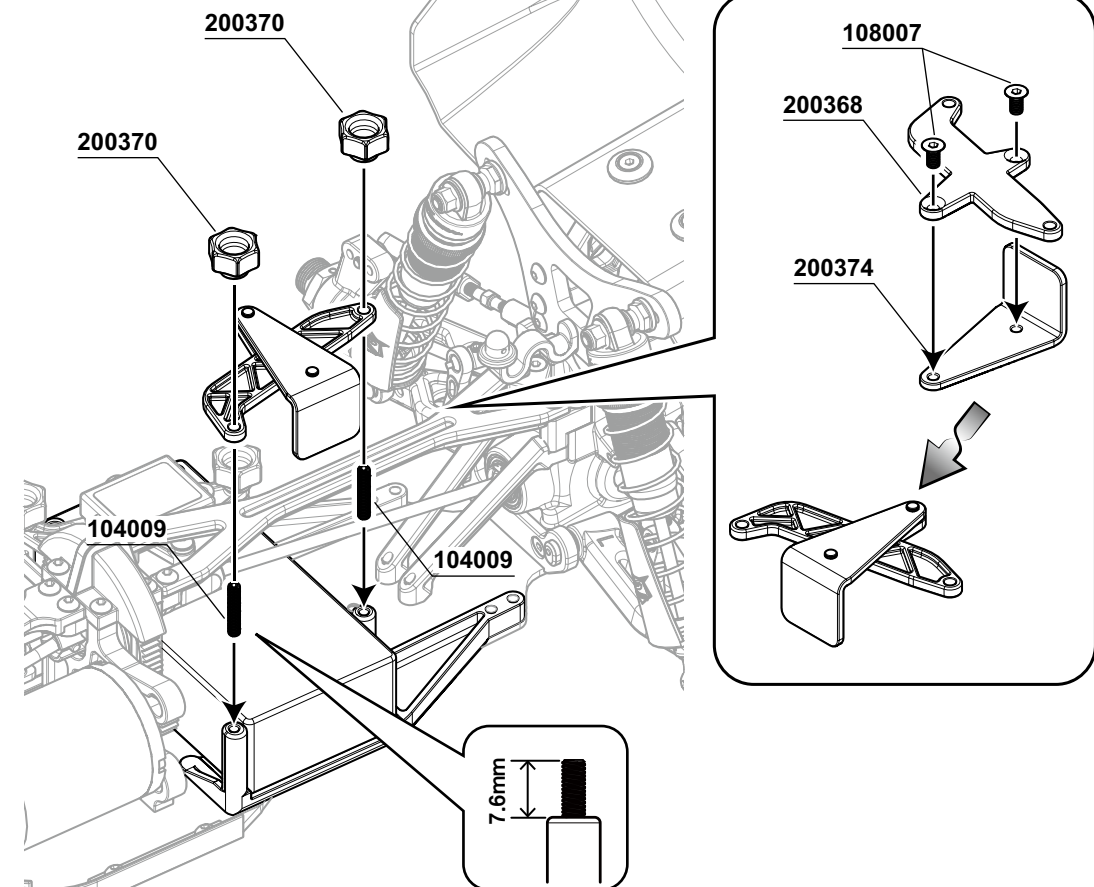
46



108007
M3x6mm FH/ST HEX Screw **x4**

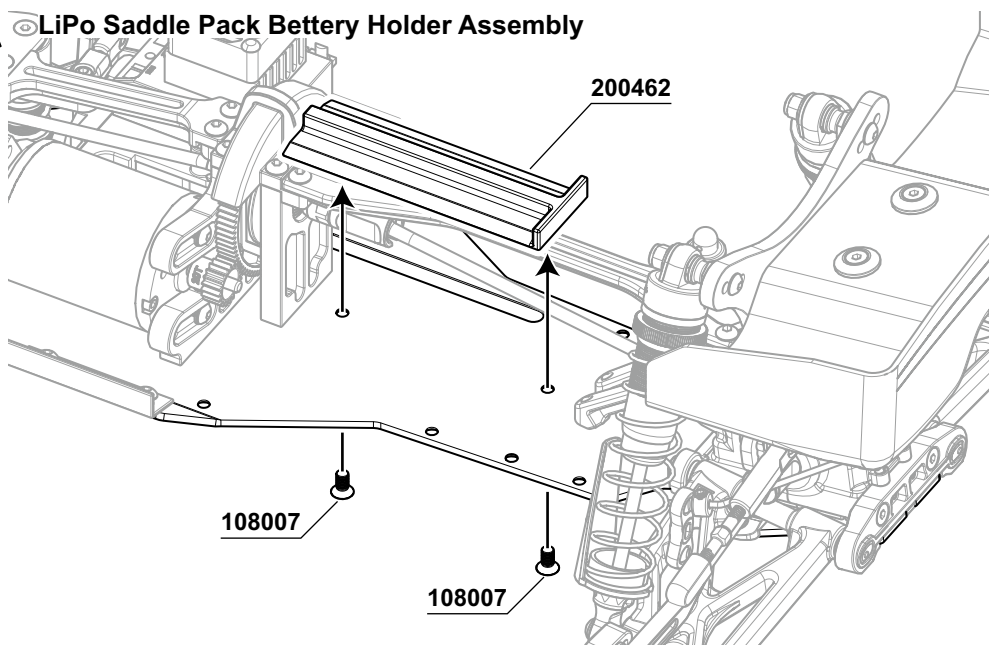


104009
M3x16mm Set Screw **x2**

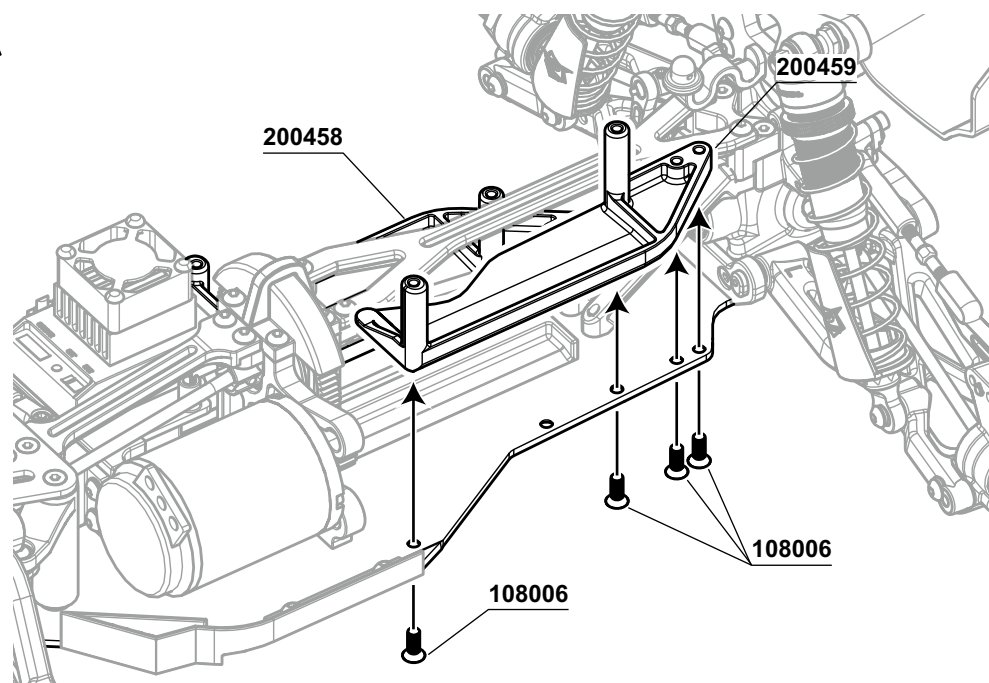




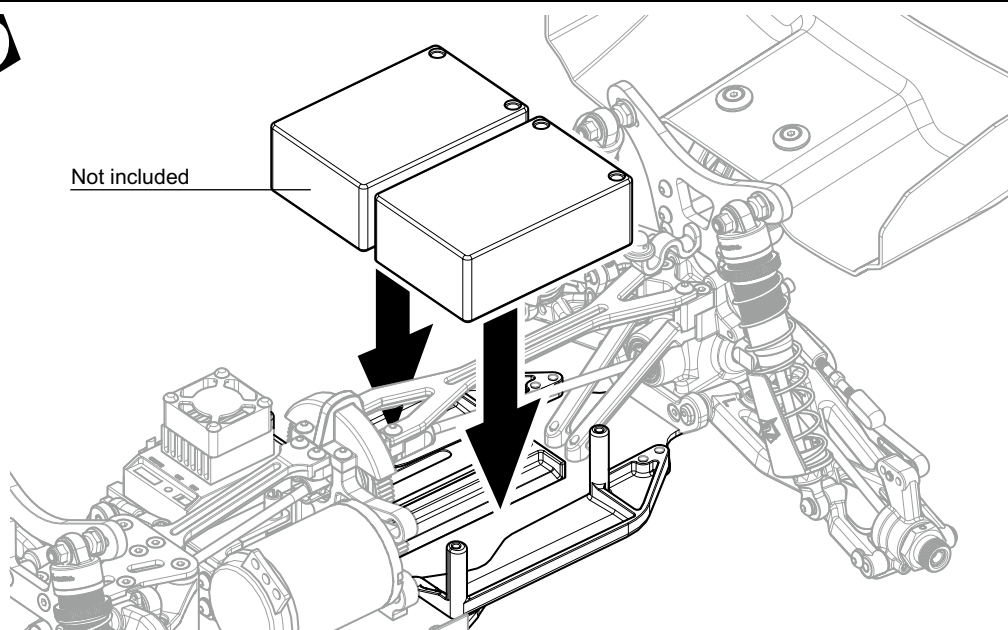
108007
M3x6mm FH/ST HEX Screw x2



108006
M3x8mm FH/ST HEX Screw x8



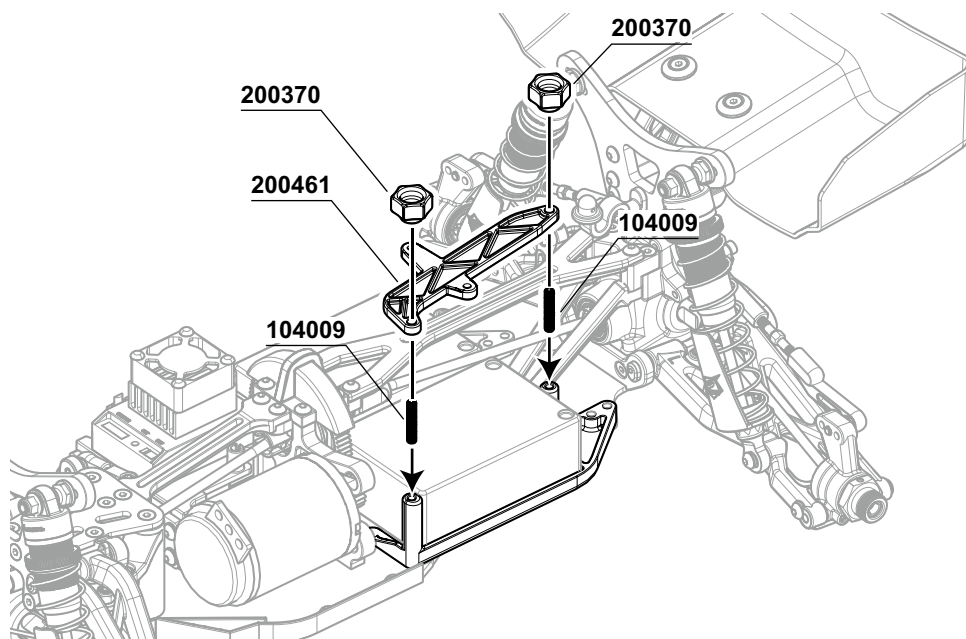
Not included





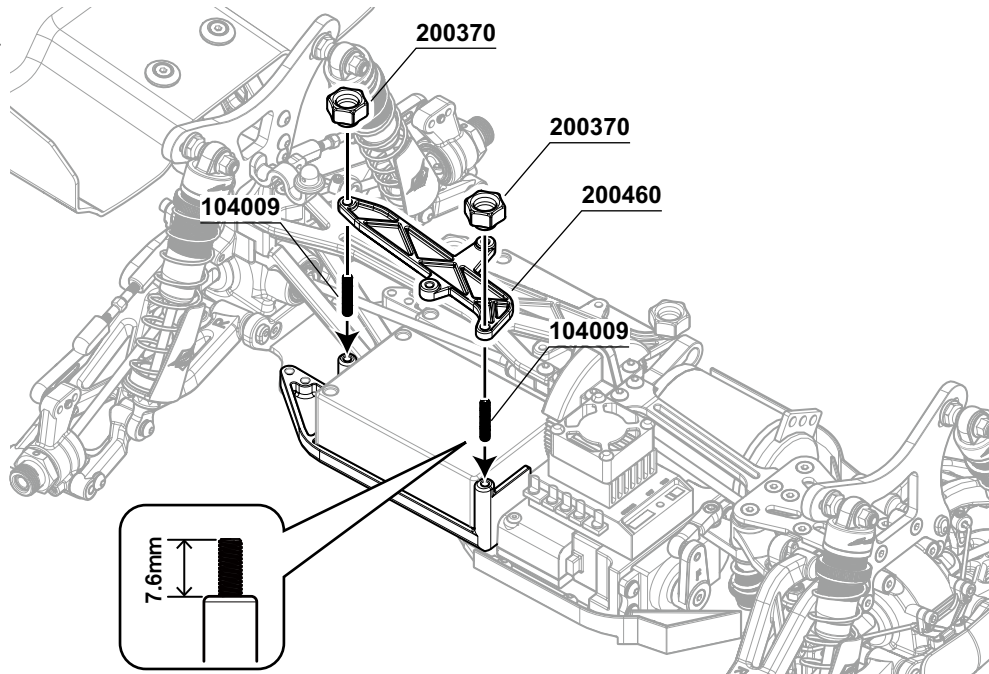
104009
M3x16mm Set Screw x2

50



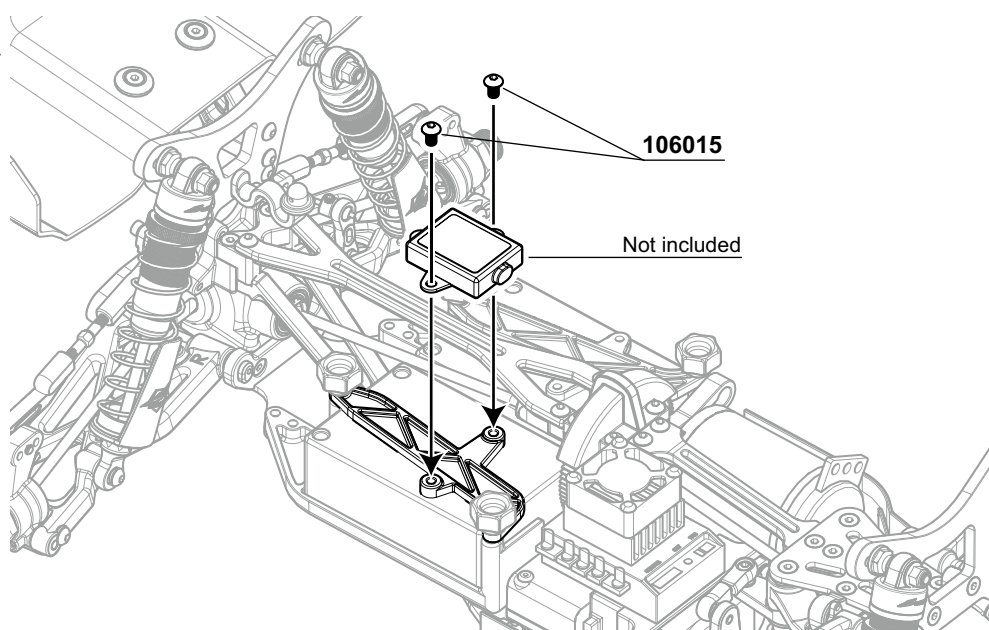
104009
M3x16mm Set Screw x2

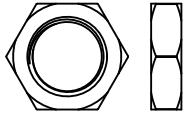
51



106015
M3x5mm Hex Socket OH/TP Screw x2

52





330298
S104 Wheel Nut 14mm x4

53

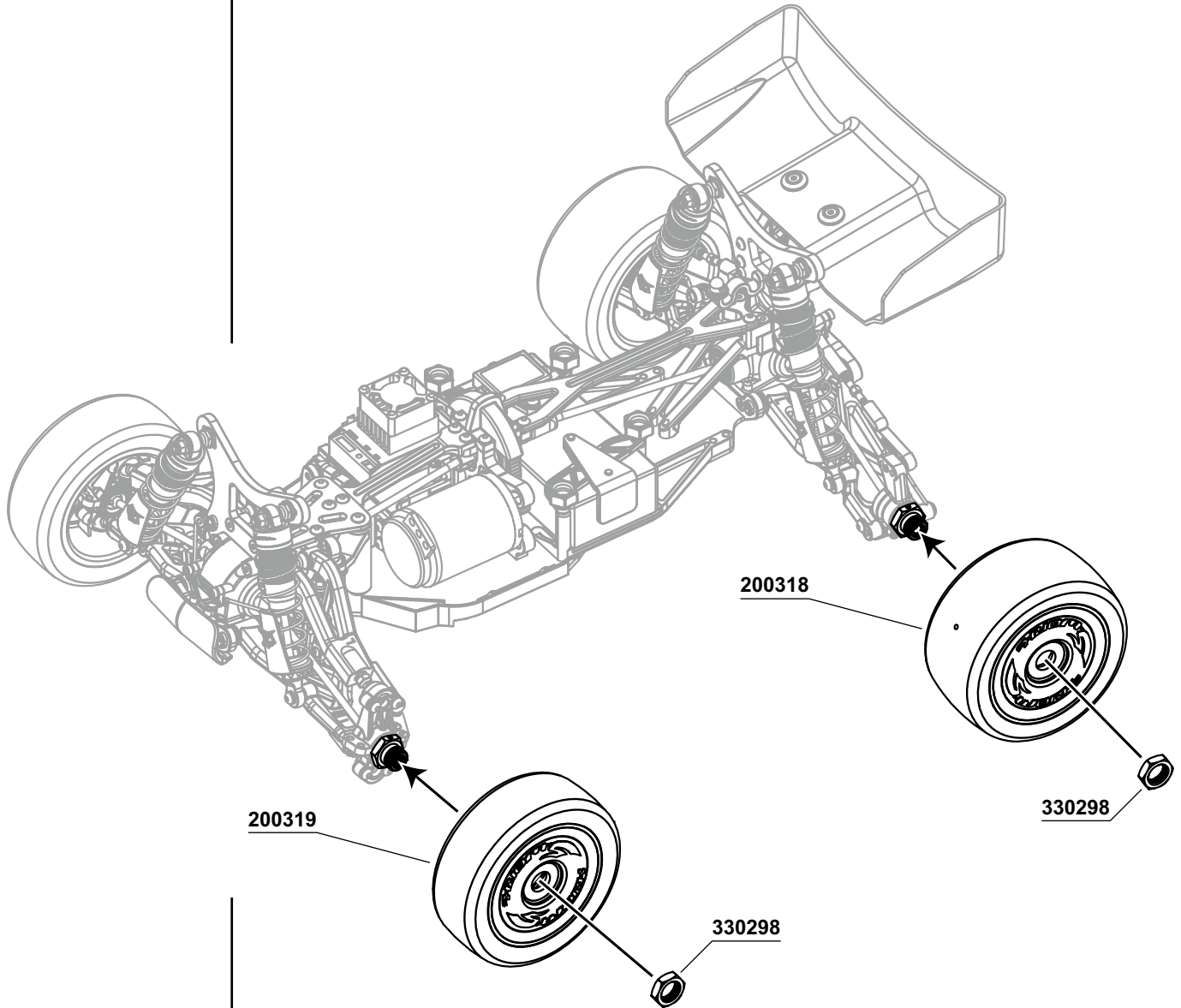
F
R

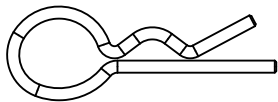
x2

For
Front

x2

For
Rear

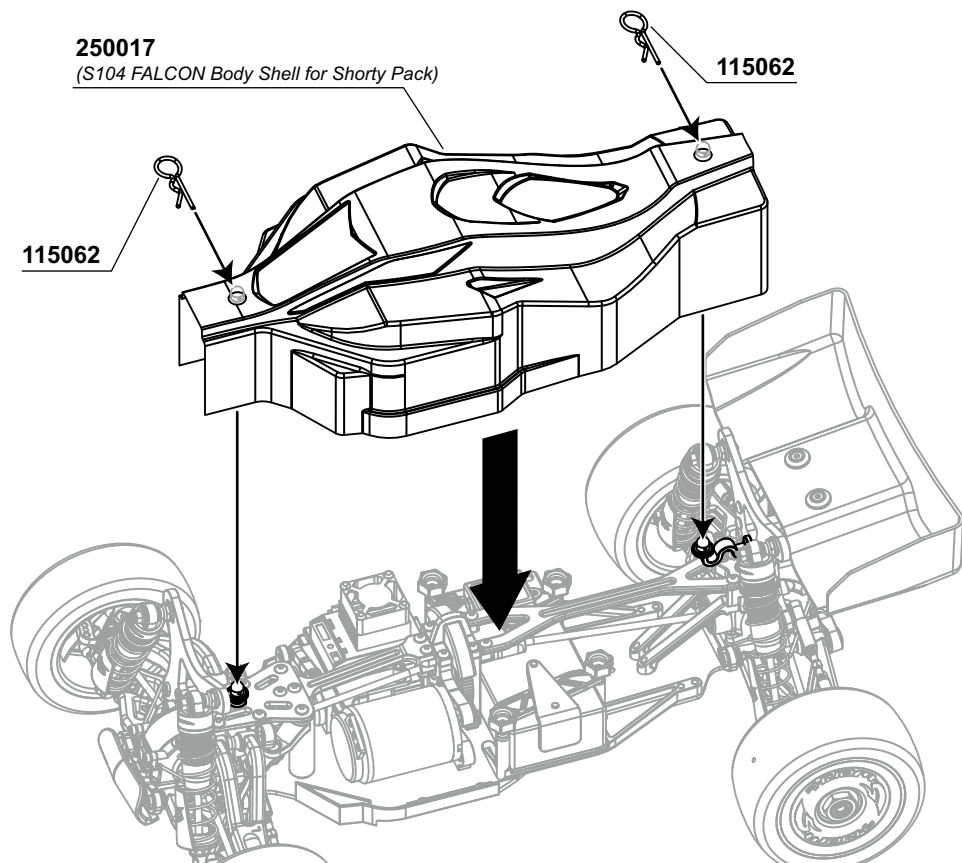




115062
1/10 Body Clip **x2**

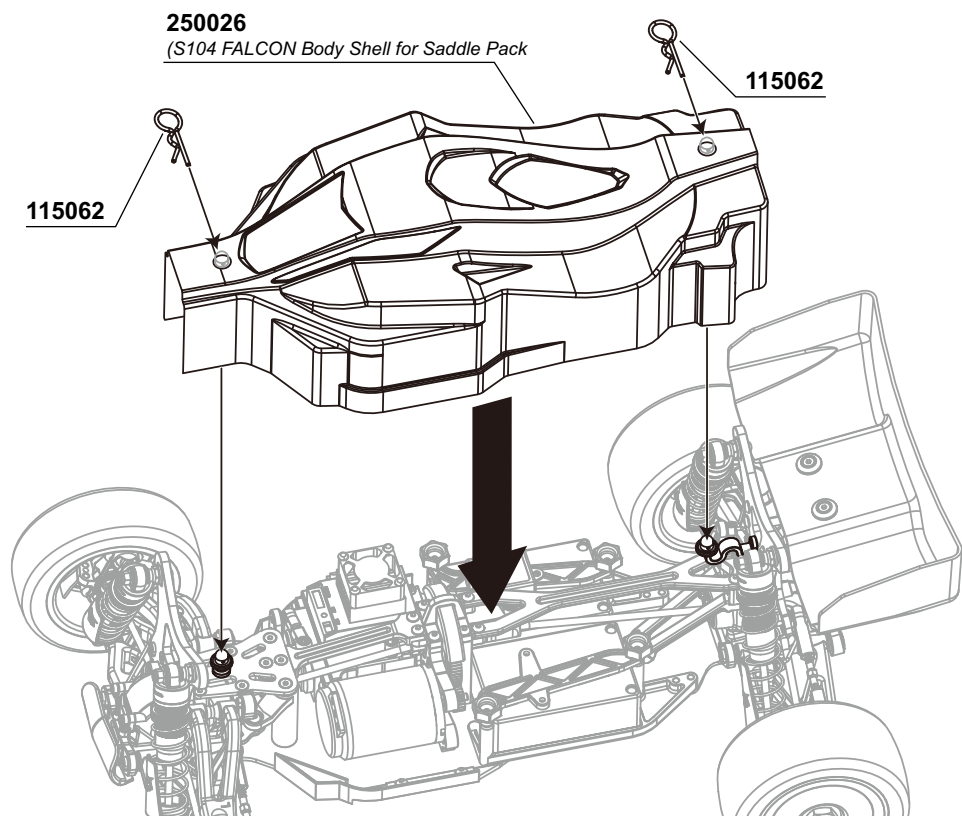
54

S104 FALCON Body Shell for Shorty Pack Assembly



55

S104 FALCON Body Shell for Saddle Pack Assembly



SET-UP SHEET

Race time / Lap: _____

Best lap: _____



Track Conditions

Size: ☐ Open ☐ Med. ☐ Tight
 Traction: ☐ High ☐ Med. ☐ Low
 Surface: ☐ Smooth ☐ Med. ☐ Bumpy

Electric System

ESC Type: _____

Motor Type: _____

Motor Gear/Spur Gear: _____

Battery Type A: Saddle Pack _____
 B: Shorty Pack _____

Name: _____
 Date: _____
 Track: _____

Diff. Oil

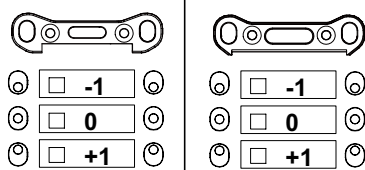
Front: _____
 Rear: _____

Tire

Front Rear
 Type: _____ Type: _____
 Foam: _____ Foam: _____

Front Suspension

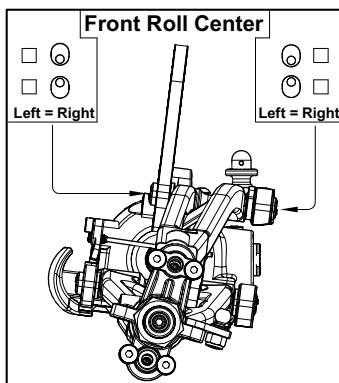
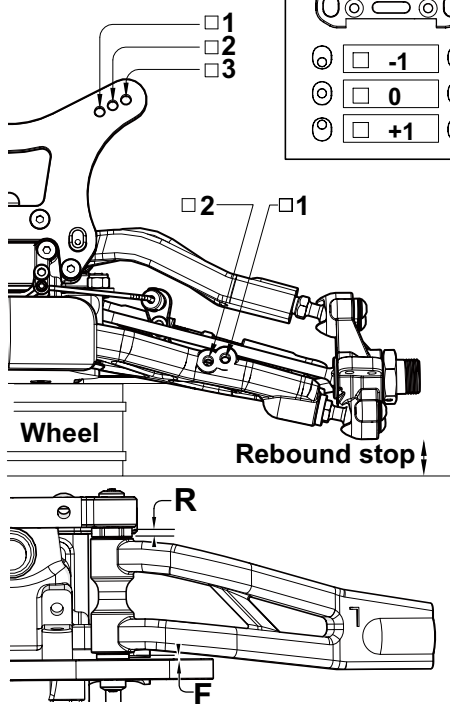
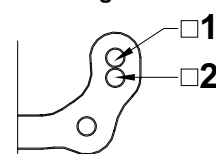
Front in-Board Toe



Front Shocks

Oil: _____
 Pistons: _____
 Spring: _____
 Spacer: _____ mm

Steering Ackerman



Track width _____ mm

Camber angle Upper _____ mm
 Lower _____ mm

Toe angle _____ mm

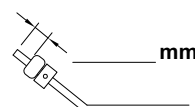
Rebound stop _____ mm

Sway bar ☐ Use _____ mm
☐ None

Notes: _____

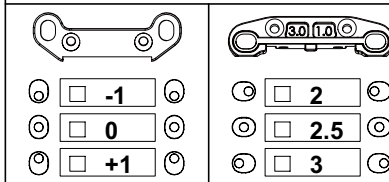
R: _____ mm

F: _____ mm



Rear Suspension

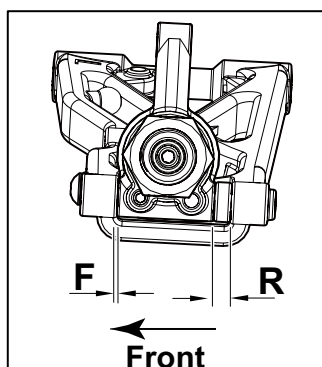
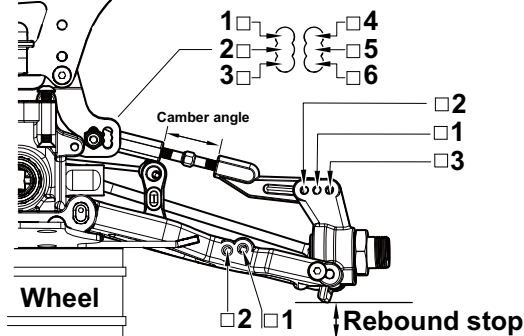
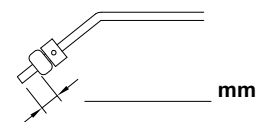
Rear Toe-In



Rear Shocks

Oil: _____
 Pistons: _____
 Spring: _____
 Spacer: _____ mm

Camber angle _____ mm
 Rebound stop _____ mm



Wheelbase F _____ mm
 adjustment R _____ mm

Sway bar ☐ Use _____ mm
☐ None

Notes: _____



Name: **SWORKZ**

Date: **2013/7/5**

Track: _____

Diff. Oil

Front: **3000**

Rear: **3000**

Tire

Front **JC**

Type: **3003**

Foam: **Standard**

Rear **JC**

Type: **3002**

Foam: **Standard**

Track Conditions

Size: ☐ Open ☐ Med. ☒ Tight

Traction: ☐ High ☒ Med. ☐ Low

Surface: ☐ Smooth ☒ Med. ☐ Bumpy

Electric System

ESC Type: **Speed Passion Rerenton Pro**

Motor Type: **Speed Passion 3.0V 6.5R**

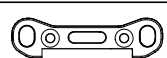
Motor Gear/Spur Gear: **22/87T**

Battery Type A: Saddle Pack **LP 5400**

B: Shorty Pack _____

Front Suspension

Front in-Board Toe



☐ -1
☒ 0
☐ +1



☐ -1
☒ 0
☐ +1

Front Shocks

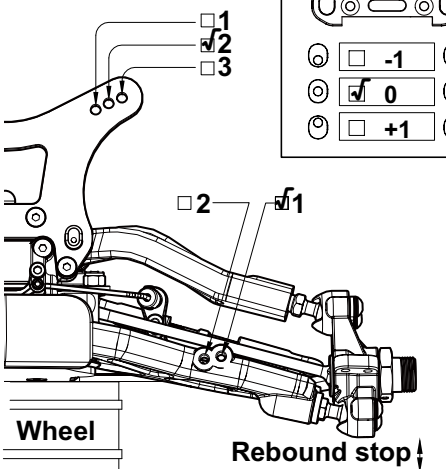
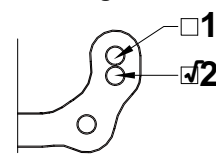
Oil: **550**

Pistons: **1.2x5**

Spring: **Red**

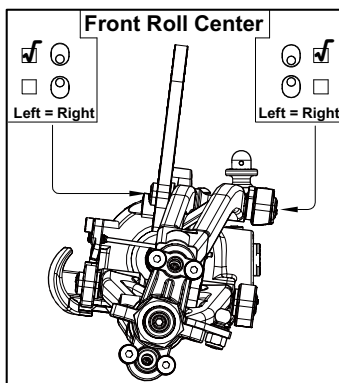
Spacer: **5** mm

Steering Ackerman



Wheel

Rebound stop



Left = Right

Left = Right

Track width **223** mm

Camber angle Upper **0** mm

Lower **2** mm

Toe angle _____

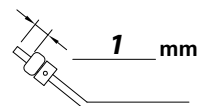
Rebound stop _____ mm

Sway bar ☒ Use **1.1** mm
☐ None

Notes:

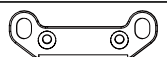
R: **0** mm

F: **2** mm

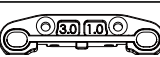


Rear Suspension

Rear Toe-In



☐ -1
☒ 0
☐ +1



☐ 2
☐ 2.5
☒ 3

Rear Shocks

Oil: **500**

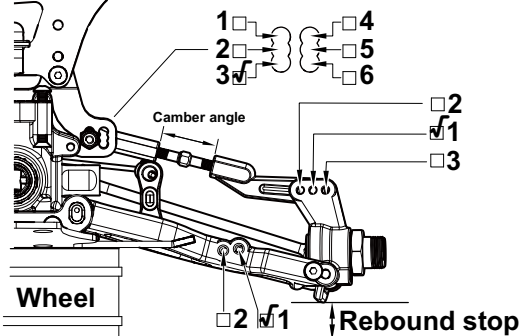
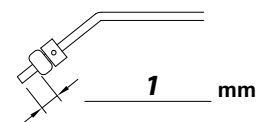
Pistons: **1.2x5**

Spring: **Pink**

Spacer: **1.2** mm

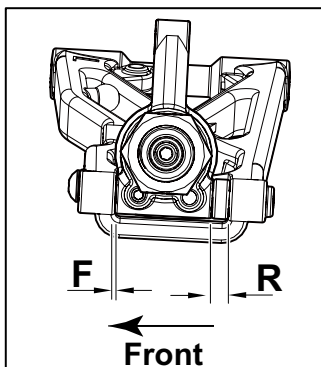
Camber angle _____ mm

Rebound stop _____ mm



Wheel

Rebound stop



F

R

Front

Wheelbase F **3** mm
adjustment R _____ mm

Sway bar ☒ Use **1.2** mm
☐ None

Notes:

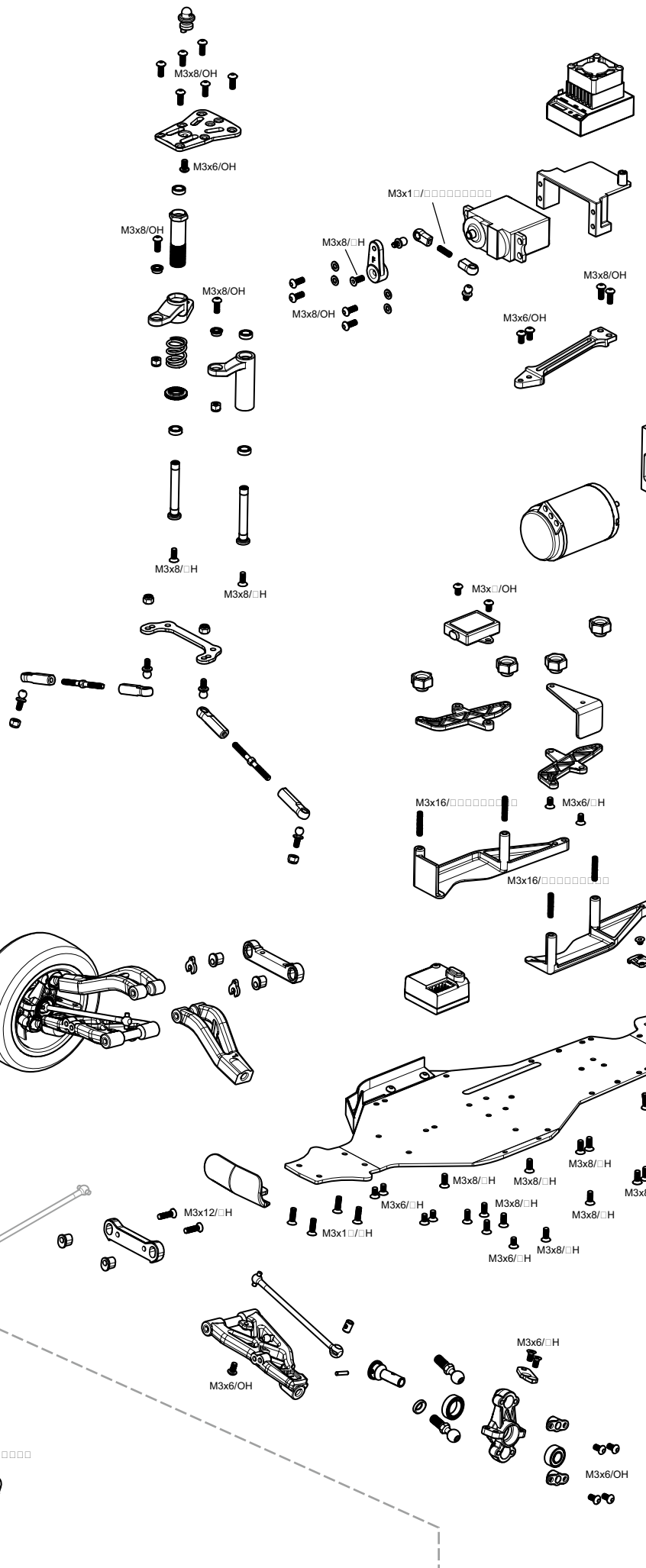
Parts No. List				Spare Part List	
Part No.	Part Name	Q'ty in Use	Item No.	Item No.	Part Name
SW-330321	S104 Center Slipper Clutch Pin M2.0x8mm			SW-101011	M2.6x6xT0.5mm
SW-330325	S104 Center Front CVD Drive Shaft 91mm			SW-101012	M3x6xT0.5mm
SW-330326	S104 Center Rear CVD Drive Shaft 96mm			SW-101023	Shim 10x12x0.1mm
SW-330327	S104 Servo Saver Shaft			SW-101024	Shim 10x12x0.2mm
SW-330328	S104 Servo Saver Post			SW-101025	Shim 3.5x10x0.1mm
SW-330329	S104 Servo Saver Nut			SW-103001	M3 Nut Lock
SW-330330	S104 Servo Saver Steering Plate			SW-103003	Flange M3 Nut Lock
SW-330331	S104 Steering Linkage Ball Stud 5mm			SW-104002	M3x10mm Set Screw
SW-330331	S104 Steering Linkage Ball Stud 4.1mm			SW-104004	M3x3mm Set Screw
SW-330332	S104 Front Upper Arm Arm HingPin			SW-104005	Set Screw M3x4
SW-330341	S104 Aluminum Front Center Support			SW-104008	M4x4mm Set Screw
SW-330348	S104 Carbon Fiber Steering Knuckle Plate (L)			SW-104009	M3x16mm Set Screw
SW-330348	S104 Carbon Fiber Steering Knuckle Plate R			SW-105004	M2.6x6mm Cap Screw
SW-330410	S104 Motor Gear 21T			SW-105011	M3x23mm Hex Soket OH/TP Screw
SW-330425	S104 Aluminum Center Slipper Clutch Mount for Motor			SW-106001	M3x8mm Hex Soket OH/TP Screw
SW-400002	O-ring S5			SW-106002	M3x10mm Hex Soket OH/TP Screw
SW-400008	S104 O-ring for Pinion Gear 7.65x1.2mm			SW-106005	M3x15mm Hex Soket OH/TP Screw
SW-210037	S104 Shock Seal O-ring 2x2.7mm			SW-106008	M3x12mm Hex Soket OH/TP Screw
SW-400014	S104 Aluminum Shock Spring Adjust Nut O-Ring 1.5x13.5mm			SW-106010	M3x6mm Hex Soket OH/TP Screw
SW-400015	S104 Shock Bladder			SW-106011	M3x4mm Hex Soket OH/TP Screw
SW-400016	S104 Shock Boot			SW-106014	M2x6mm Hex Soket OH/TP Screw
SW-510045	S104 EK1 Body Decal Sheet			SW-106015	M3x5mm Hex Soket OH/TP Screw
SW-250017	S104 EK1 Body Window Mask			SW-106018	M3x3mm Hex Soket OH/TP Screw
SW-610012	S104 Diff. Gasket (0.4T)			SW-108001	M3x12mm FH/ST HEX Screw
SW-610013	S104 Center Slipper Clutch Pad			SW-108003	M3x10mm FH/ST HEX Screw
				SW-108006	M3x8mm FH/ST HEX Screw
				SW-108007	M3x6mm FH/ST HEX Screw
				SW-108014	M3x3mm FH/ST HEX Screw
				SW-108017	M2.6x10mm FH/ST HEX Screw
				SW-108018	M3x30mm FH/ST HEX Screw
				SW-115055	S104 Sway Bar 1.3mm
				SW-115056	S104 Sway Bar 1.5mm
				SW-115057	S104 Sway Bar 1.8mm
				SW-115058	S104 Servo Saver Spring
				SW-115059	S104 Center Slipper Clutch Spring
				SW-115060	S104 Shock Spring L44mm/1.2mmxP8 (RD) (2pc)
				SW-115061	S104 Shock Spring L64mm/1.1mmxP8 (RD)
				SW-115062	1/10 Body Clip
				SW-116013	Ball Bearing 10x15x4mm
				SW-116014	Ball Bearing 6x13x5mm
				SW-117003	Flange Ball Bearing 3x6x2.5mm (2pc)
				SW-117004	Bushing 5x8x2.5mm
				SW-200193	Antenna Tube
				SW-210036	S104 Diff. Case Set
				SW-210037	S104 Series Pro Shock Seal Kit
				SW-250017	S104 FALCON Body Shell for Shorty Pack
				SW-250023	S104 Side Guard Set
				SW-250026	S104 FALCON Body Shell for Saddle Pack
				SW-2501794	S104 Front Up/Lower Arm Set
				SW-2501795	S104 Rear Lower Arm Set
				SW-2501796	S104 Gear Box Set (F&R)
				SW-2501797	S104 Front Steering Knuckle andRear Hub Carrier Set
				SW-2501798	S104 Wing Stay Set with Bumper and Arm Holder
				SW-2501800	S104 Rear Wing Set
				SW-2501801	S104 Settring Bellcrank Set with Servo Horn Set
				SW-2501802	S104 Center Plastic Support Set
				SW-2501803	S104 Shorty Battery Side Guard with Battery Holder Set
				SW-2501804	S104 Spur Gear Set (86/87/88T)
				SW-2501806	S104 Plastic Ball End Set
				SW-2501807	S104 Shock Spring Holder with Ball End Plastic Parts
				SW-2501808	S104 Plastic Insert Set
				SW-2501810WH	S104 Front Wheel (WH)
				SW-2501811WH	S104 Rear Wheel (WH)
				SW-2501845	S104 Saddle Pack Battery Side Guard with Battery Holder Set
				SW-330134	Shock Ball Stud 6mmxL6.7
				SW-330278	S104 Diff. Bevel Gear Set
				SW-330279	S104 Bevel Gear Shaft
				SW-330282	S104 Front/Rear Diff. Outdrive
				SW-330283	S104 Pin M2.0x10mm
				SW-330284	S104 Crown Gear 42T
				SW-330285	S104 Pin M2.0x14mm
				SW-330286	S104 Pinion Gear 17T
				SW-330287	S104 Carbon Fiber Front Shock Tower
				SW-330288	S104 Rear Shock Tower Holder

Spare Part List

Item No.	Part Name
SW-330289	S104 Pro Kit Main Chassis
SW-330290	S104 Aluminum Rear Lower Arm Holder
SW-330291	S104 Aluminum Front Lower Suspension Plate
SW-330292	S104 Front/Rear Lower Arm HingPin (2pc)
SW-330293	S104 Rear Hub Carrier Hing pin (2pc)
SW-330294	S104 CVD Axle (2pc)
SW-330295	S104 CVD Join (2pc)
SW-330296	S104 CVD Drive Shaft 78mm (2pc)
SW-330297	S104 Wheel Hub 14mm (2pc)
SW-330298	S104 Wheel Nut 14mm (2pc)
SW-330299	S104 Steering Linkage Ball Stud 5mm (4pc)
SW-330300	S104 Rear Upper Sus. Arm Turnbuckles (2pc)
SW-330301	S104 Aluminum Race Shock Body (L) (2pc)
SW-330302	S104 Aluminum Race Shock Body (S) (2pc)
SW-330303	S104 Aluminum Shock Seal Cover (2pc)
SW-330304	S104 Aluminum Shock Spring Adjust Nut
SW-330307	S104 Shock Shaft L (2pc)
SW-330308	S104 Shock Shaft S (2pc)
SW-330310	S104 Shock Piston 1.2mmx5 holes (4pc)
SW-330311	S104 Aluminum Shock Cap (2pc)
SW-330312	S104 Aluminum Shock Cap Stud (2pc)
SW-330313	S104 Carbon Fiber Rear Shock Tower
SW-330314	S104 Steering Knuckle Pivot Ball Turnbuckle (4pc)
SW-330315	Sway Bar Linkage Ball Stud (4pc)
SW-330316	S104 Aluminum Knuckle Pivot Ball Washer 2mm (2pc)
SW-330317	S104 Center Slipper Clutch Holder L
SW-330318	S104 Center Slipper Clutch Outdrive S
SW-330319	S104 Center Slipper Clutch Plate
SW-330320	S104 Center Slipper Clutch Nut
SW-330321	S104 Center Slipper Clutch Pin M2.0x8mm (2pc)
SW-330325	S104 Center Front CVD Drive Shaft 91mm
SW-330326	S104 Center Rear CVD Drive Shaft 96mm
SW-330327	S104 Servo Saver Shaft
SW-330328	S104 Servo Saver Post
SW-330329	S104 Servo Saver Nut
SW-330330	S104 Servo Saver Steering Plate
SW-330331	S104 Steering Linkage Ball Stud 5mm (4pc)
SW-330331	S104 Steering Linkage Ball Stud 4.1mm
SW-330332	S104 Front Upper Arm Arm HingPin (2pc)
SW-330341	S104 Aluminum Front Center Support
SW-330348	S104 Carbon Fiber Steering Knuckle Plate Set
SW-330410	S104 Motor Gear 21T
SW-330425	S104 Aluminum Center Slipper Clutch Mount for Motor
SW-400002	O-ring S5 4.8X1.5
SW-400008	S104 O-ring for Pinion Gear 7.65x1.2mm (2pc)
SW-400014	S104 Aluminum Shock Spring Adjust Nut O-Ring 1.5x13.5mm
SW-400015	S104 Shock Bladder
SW-400016	S104 Shock Boot
SW-510045	S104 EK1 Body Decal Sheet
SW-610012	S104 Diff. Gasket (0.4T) (2pc)
SW-610013	S104 Center Slipper Clutch Pad (2pc)

Option Part List

Item No.	Part Name
SW-115078	S104 Shock Spring L44mm/1.1mmxP8 (OG) (2pc)
SW-115079	S104 Shock Spring L44mm/1.1mmxP10 (PK) (2pc)
SW-115080	S104 Shock Spring L64mm/1.0mmxP8 (OG) (2pc)
SW-115081	S104 Shock Spring L64mm/1.0mmxP10 (PK) (2pc)
SW-115082	S104 Shock Spring L42mm/1.2mmxP10 (SB) (2pc)
SW-115083	S104 Shock Spring L62mm/1.1mmxP10 (SB) (2pc)
SW-115084	S104 Sway Bar 1.1mm
SW-115085	S104 Sway Bar 1.2mm
SW-115086	S104 Sway Bar 1.4mm
SW-115087	S104 Sway Bar 1.6mm
SW-210039	S104 Series F/R Diff. Set (42T)
SW-210040	S104 Series Center Slipper Clutch Set
SW-210041	S104 series Pro Shock Set
SW-2501800ABK	S104 Rear Wing Set (W/O Holes) (BK)
SW-2501800AFY	S104 Rear Wing Set (W/O Holes) (FY)
SW-2501800AOG	S104 Rear Wing Set (W/O Holes) (OR)
SW-2501800AWH	S104 Rear Wing Set (W/O Holes) (WH)
SW-2501956	S104 Front Wheel (FY) (2pc)
SW-2501957	S104 Rear Wheel (FY) (2pc)
SW-330323	S104 Aluminum Center Slipper Clutch Mount R
SW-330324	S104 Motor Gear 20T
SW-330333	S104 Aluminum Rear Kick up Insert
SW-330335	S104 Aluminum Rear Wing Washer
SW-330337	S104 Carbon Fiber Battery Holder Set for Shorty Pack
SW-330338	S104 Aluminum Battery Holder Nut (4pc)
SW-330339	S104 Carbon Fibe Rear Center Support
SW-330340	S104 Carbon Fibe Settring Bellcrank Plate
SW-330342	S104 Aluminum Front Upper Arm Holder
SW-330409	S104 Motor Gear 19T
SW-330411	S104 Motor Gear 22T
SW-330412	S104 Motor Gear 23T
SW-330413	S104 Motor Gear 24T
SW-330418	S104 Carbon Fiber Battery Holder Set for Saddle Pack
SW-330431	S104 Aluminum Center Slipper Clutch Plate



Exploded View

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