

CAUTION



To prevent serious personal injury and/or property damage, operate all remotely controlled models in a responsible manner as outlined herein.

Safety Precautions

- 1.1 This radio-controlled model is not a toy, it is designed for persons 14 years of age or older.
- 1.2 Do not operate your vehicle on unsafe terrain; always pay attention to your surroundings.
- 1.3 Never operate your vehicle on public roadways, around moving people, animals, or operating machinery.
- 1.4 Keep clear of power lines and high-powered radio equipment to minimize radio frequency interference.
- 1.5 Since this vehicle contains small components, it may be a choking hazard for small children. Keep the vehicle and any spare parts out of reach of small children.

● Inspect your radio-controlled model before operation

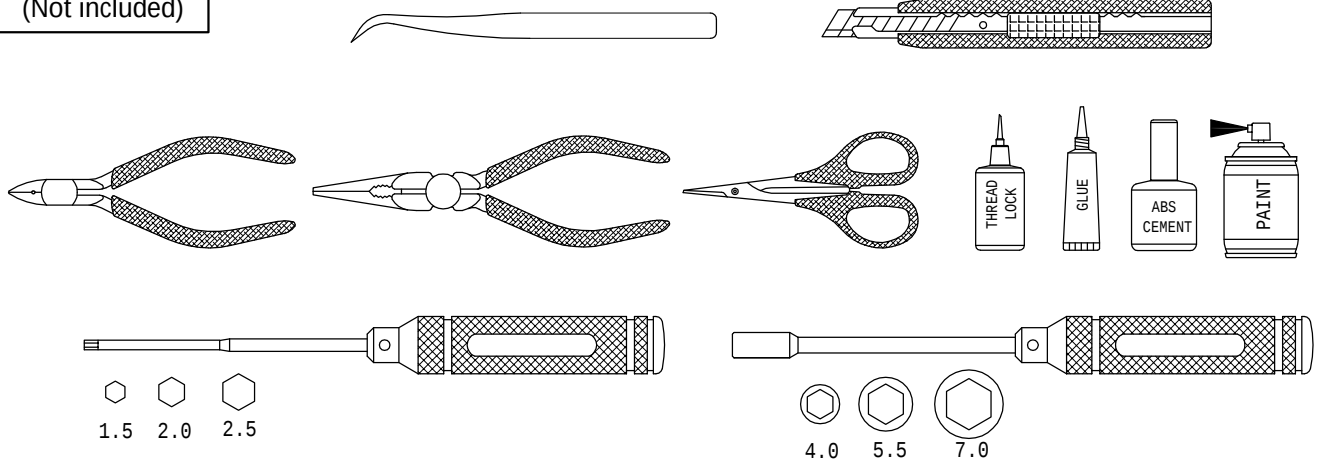
- 2.1 Ensure that all screws are properly tightened. Use thread-lock to secure any metal to metal contacts- especially for components designed to withstand torque (servo mounts, motor mount, drive shaft grub screws etc.).
- 2.2 Always check the battery voltage for both the transmitter and vehicle prior to operating your vehicle. Keep the batteries fresh in the transmitter and always begin your vehicle runs with a fully charged battery pack.
- 2.3 Always check that the motor and servo are operating smoothly and in the right direction prior to operation. If binding between components is observed, replace parts as necessary to reduce possibility of component or servo damage.
- 2.4 To turn on your vehicle, always power on your transmitter first, then power on your receiver.

● After operating your radio-controlled model

- 3.1 To turn off the vehicle, always power off your receiver prior to powering off your transmitter.
- 3.2 Use caution when handling the vehicle- components, especially the ESC and motor which will be hot after operation.
- 3.3 Never use battery packs which are dented or otherwise damaged. Ensure that the wire insulation is intact and that connectors are properly soldered. Lithium batteries can become fire hazards if mishandled.

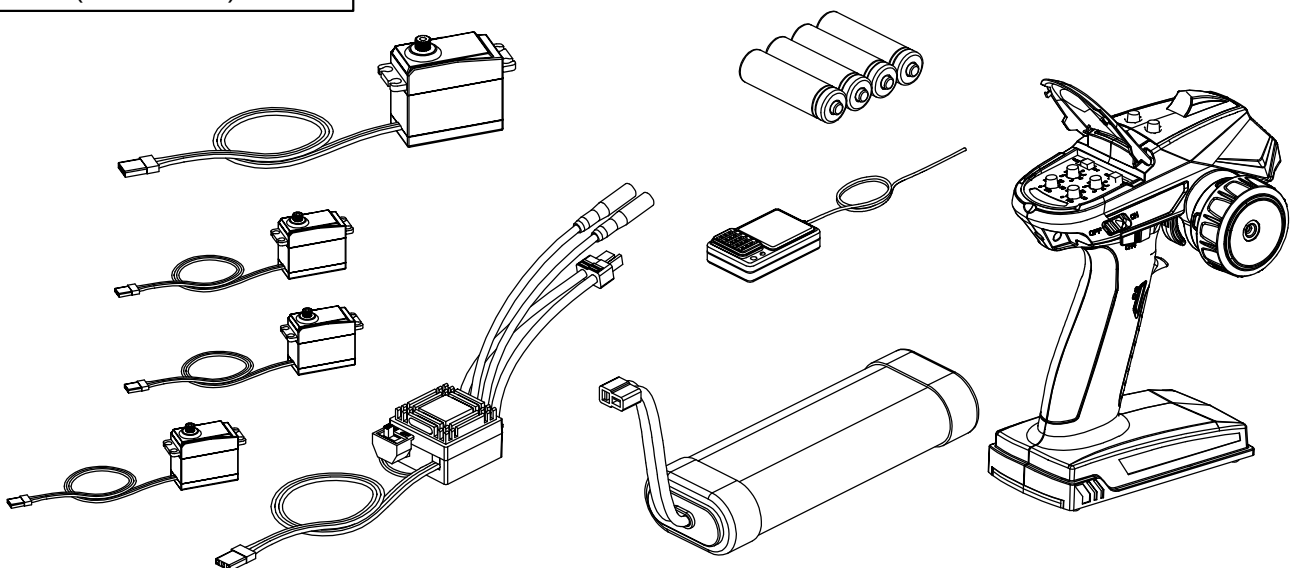
TOOLS

(Not included)



Electronic equipment

(Not included)



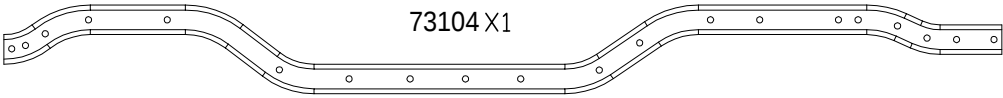
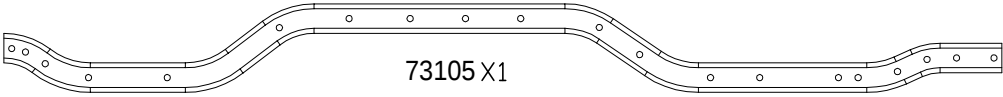
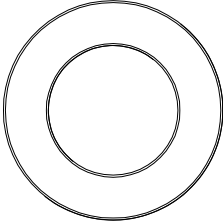
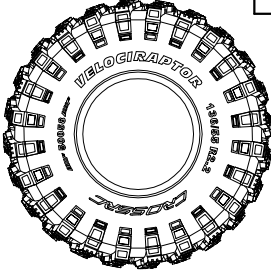
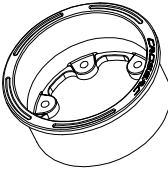
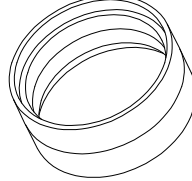
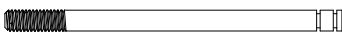
EMO X3 Assembly Remind

1. The spraying and bonding process to body shall be carried out in a ventilated place, and safety masks shall be worn.
2. Please conduct simulated assembly to determine the sequence of component before bonding or spraying.
3. For the wiring diagram of electronic equipment, please refer to the description on page 39 of the manual; Please conduct power commissioning when the wheels are suspended.
4. This product is a high-precision model. Please read this manual carefully before assembly and assemble in strict accordance with this manual.
5. Screw thread sealant shall be used during assembly. Please noted that the screw thread sealant shall not have any contact with the shell parts. The screw thread sealant and ABS materials will produce chemical reaction, which will embrittle and crack the shell.
6. It is recommended to use professional tools for installation. Please pay attention to the safety when use tools.

Requirements and recommendations for electronic equipment:

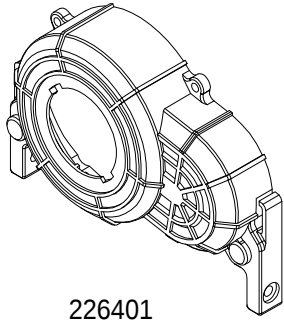
Name	Specifications	Remarks
Remotes controller	6 channels or Up	Waterproof connector is recommended
Servo	Steering servo $\geq 25\text{KG}$	High pressure standard Servo in waterproof
	Shift servo $\geq 3\text{KG} \times 3$	For the size of medium Servo, please refer to the configuration drawing below
ESC	Continuous current $\geq 80\text{A}$	ESC BEC $> 3\text{A}$
Brush motor	Brush motor 560 25T or Up	The Max. Size: $\varnothing 39\text{mm} \times 80\text{mm}$ Installation hole spacing: 25mm
Brushless motor	$\leq 2200\text{KV}$	
Motor gear	M=0.8 Z=16T~20T	M=0.8 $\neq$ 32P

Battery box size	Motor gear	Total reduction ratio		Environment	
135*50*40	20T	High speed 1:17.8 Low speed 1:38.9	Suitable for crossing and climbing		
Gear reduction ratio range reference					
	16T	17T	18T	19T	20T
High speed	1:22.1	1:20.8	1:19.6	1:18.6	1:17.8
Low speed	1:48.3	1:45.4	1:42.9	1:40.6	1:38.9

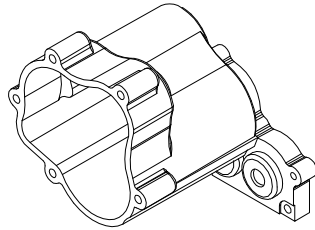
 		 91006 X1	 91007 X1
BAG(A)		EMOX3	
 227004 X4	 42329 X4	 50058 X4	
 227001 X4	 227002 X4	 227003 X4	
11108  M3x12 X24	11401  M3x4 X4	42002  ø2.2x12 X4	 44370 X4
		12203  M3 X24	12305  M5 X4
BAG(B)		EMOX3	
 91128 X4	 91129 X4	 215401 X4	 50021 X4
		 50061 X8	 17001 X4
 41841 X2	 226901 X4	 226902 X4	 226903 X4
 41847 X2	 44221 X4	 44218 X4	 44217 X4
 M2x6	 ø4xø2x0.5	 44220 X4	 ø2.5xø6x0.4 X8
			11133  M2x12 X4
			 44219 X4

BAG(C)

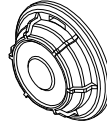
EMOX3



226401



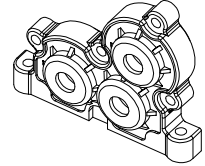
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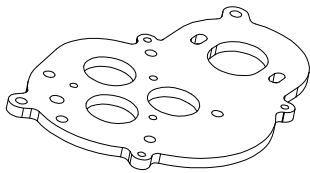
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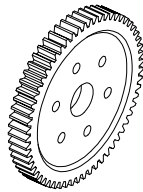
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226405



45123



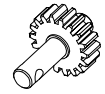
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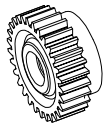
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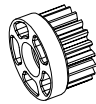
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41749 X2



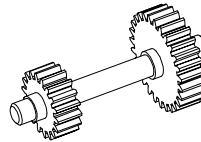
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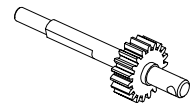
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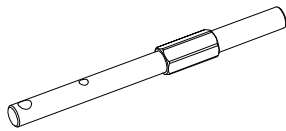
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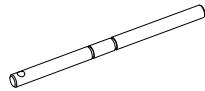
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41747



42234



42235



44212



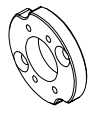
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44214



74016



44314

13001

 $\varnothing 3 \times \varnothing 7.8 \times 0.5$ X2

42236

 $\varnothing 5.1 \times \varnothing 7.5 \times 2.5$ X1

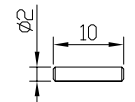
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 $\varnothing 5.1 \times \varnothing 8 \times 1.5$ X2

72007

 $\varnothing 5 \times \varnothing 8 \times 0.3$ X11

14102

 $\varnothing 3 \times \varnothing 7 \times 0.5$ X2

41209 X1

11217



M2.5x10 X6

11216



M2.5x6 X3

11205



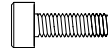
M3x6 X6

11207



M3x10 X7

11107



M3x10 X2

11405



M4x4 X1

11315



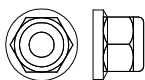
M2.5x6 X3

11331



M4x10 X2

12304



M4 X1



41834 X1



41307 X1

15012

 $\varnothing 5 \times \varnothing 10 \times 4$ X11

15014

 $\varnothing 5 \times \varnothing 8 \times 2.5$ X4

BAG(D)

EMOX3



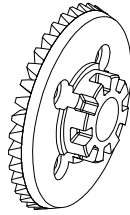
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33907 X8



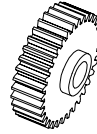
36201 X2



36202 X2



36203 X4



36204 X4



36205 X2



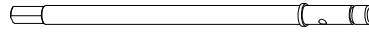
44215 X2



41838 X2



95091



42241



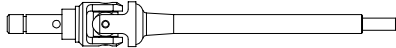
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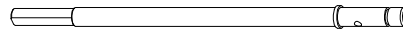
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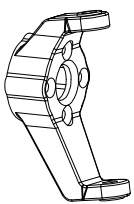
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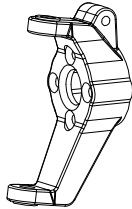
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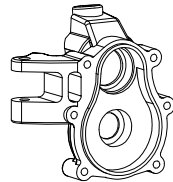
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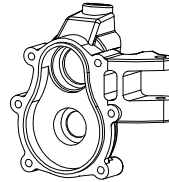
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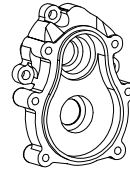
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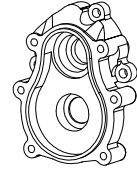
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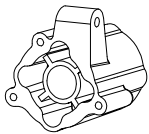
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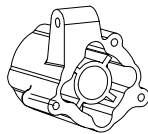
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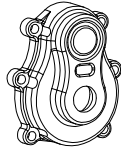
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226707



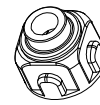
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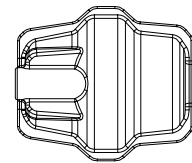
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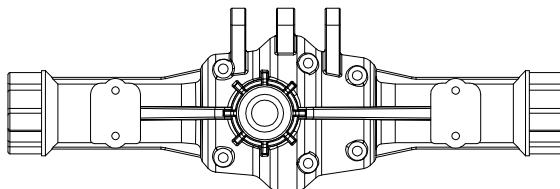
226710 X4



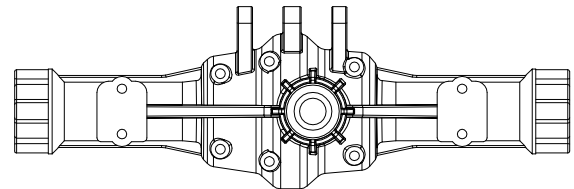
226711 X2



226602 X2

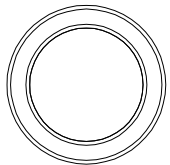


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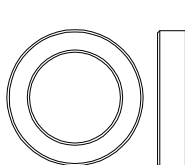


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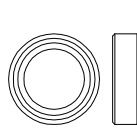
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 $\varnothing 15 \times \varnothing 21 \times 4 \times 2$

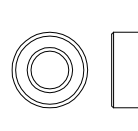
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 $\varnothing 12 \times \varnothing 18 \times 4 \times 2$

15018

 $\varnothing 8 \times \varnothing 12 \times 3.5 \times 2$

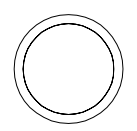
15012

 $\varnothing 5 \times \varnothing 10 \times 4 \times 14$

15022

 $\varnothing 7 \times \varnothing 13 \times 4 \times 4$

75026

 $\varnothing 12 \times \varnothing 15 \times 0.2 \times 2$

72007

 $\varnothing 5 \times \varnothing 8 \times 0.3 \times 2$

13002

 $\varnothing 3.8 \times \varnothing 9.2 \times 0.6 \times 6$

11227



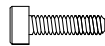
M2.5x8 X8

11316



M2.5x10 X18

11125



M2.5x10 X38

11120



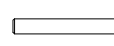
M2.5x20 X12

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M3x10 X4

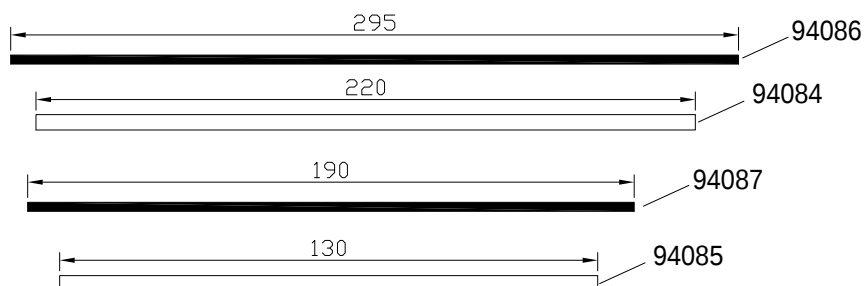
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 $\varnothing 2 \times 14 \times 2$

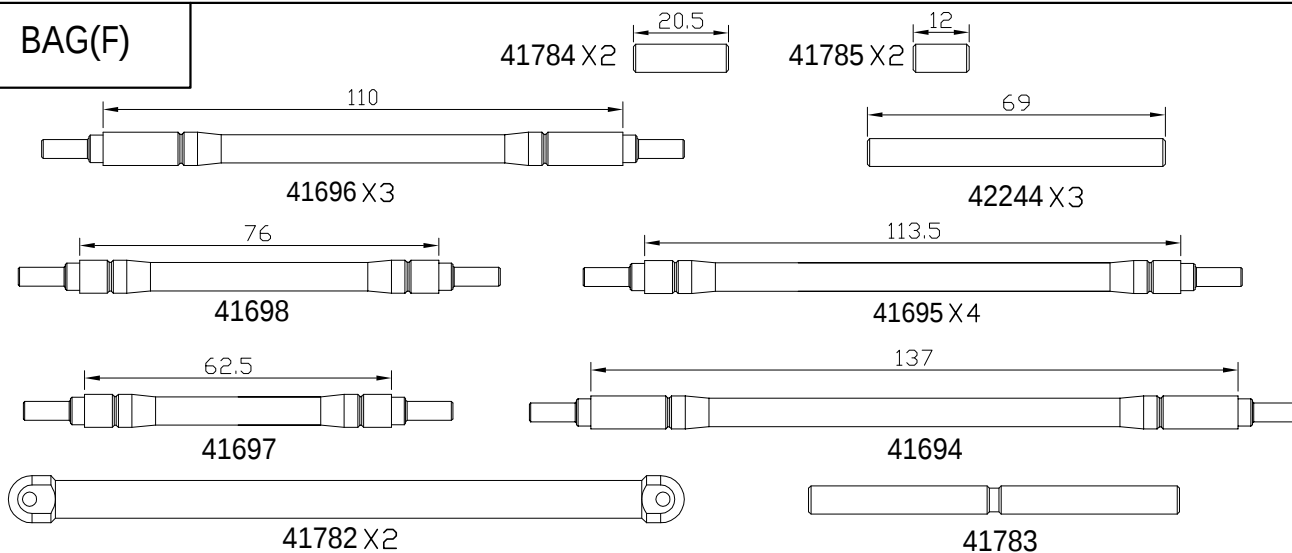
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 $\varnothing 2 \times 7.5 \times 8$

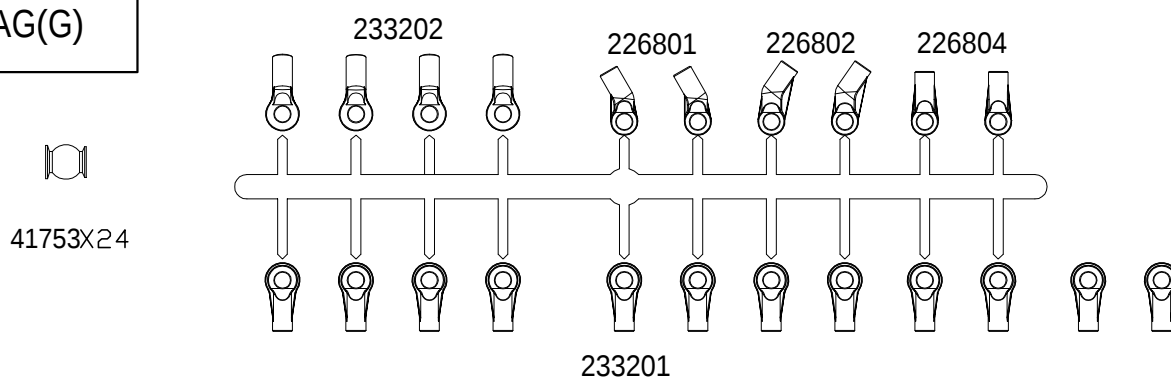
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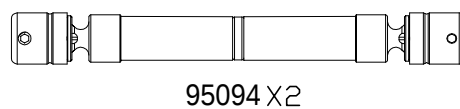
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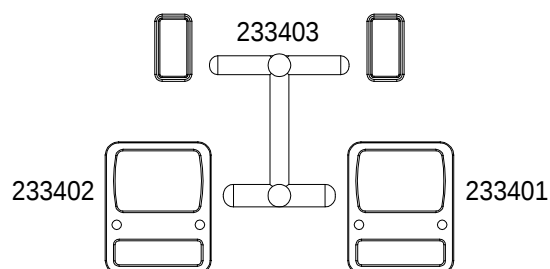
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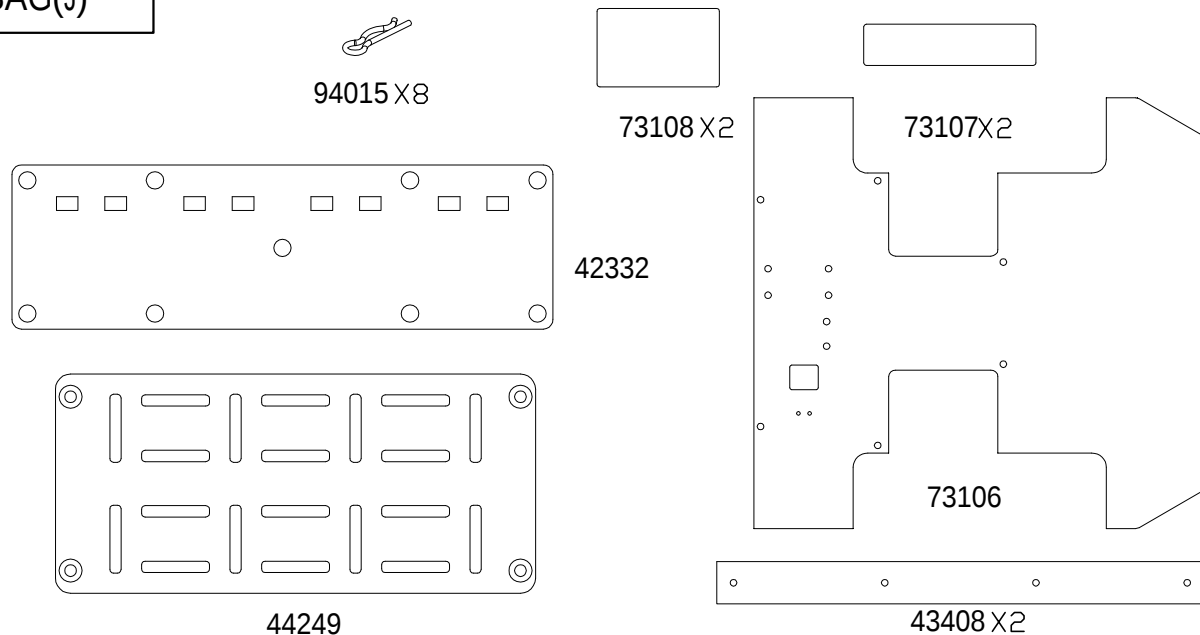
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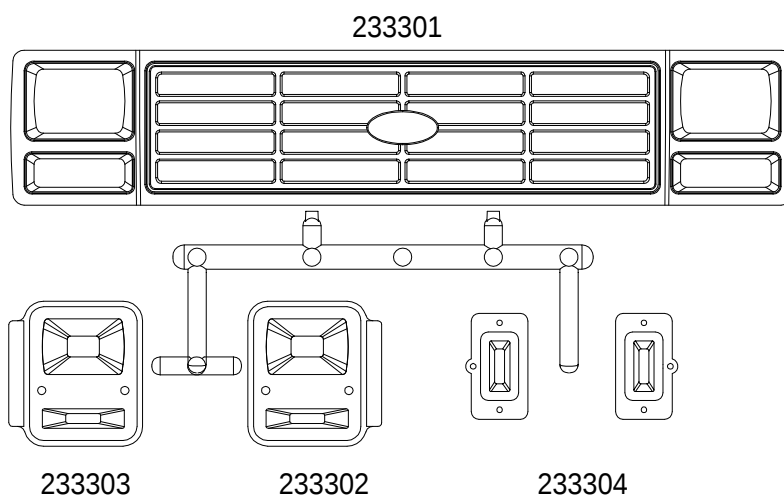
BAG(I)



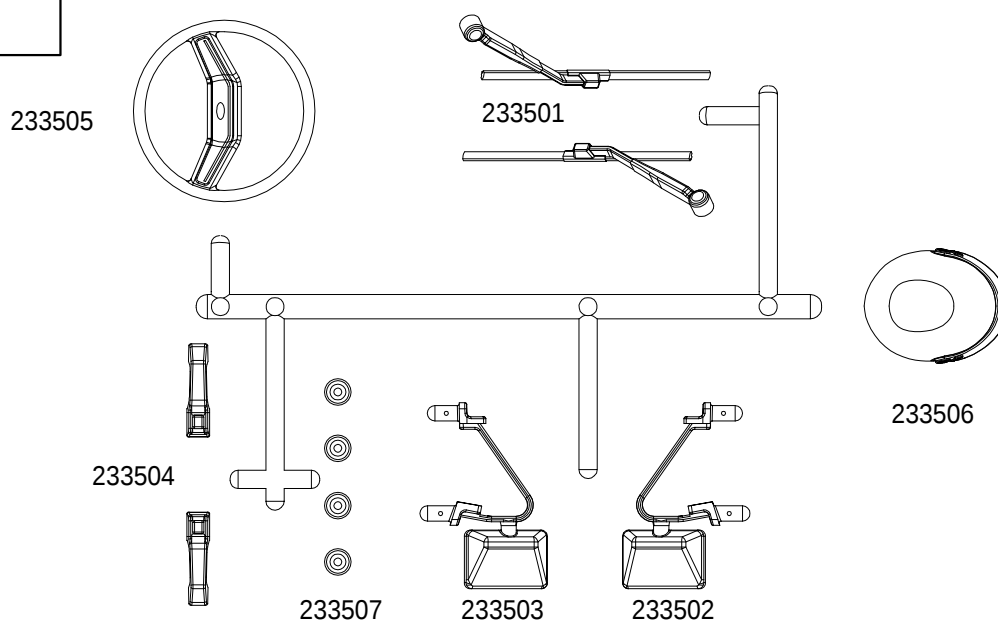
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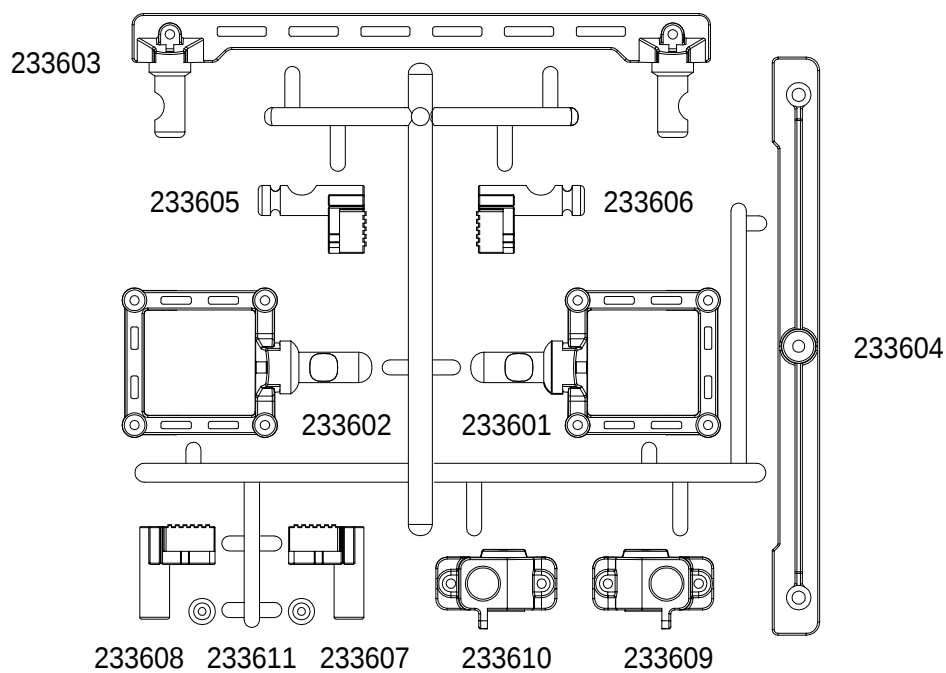
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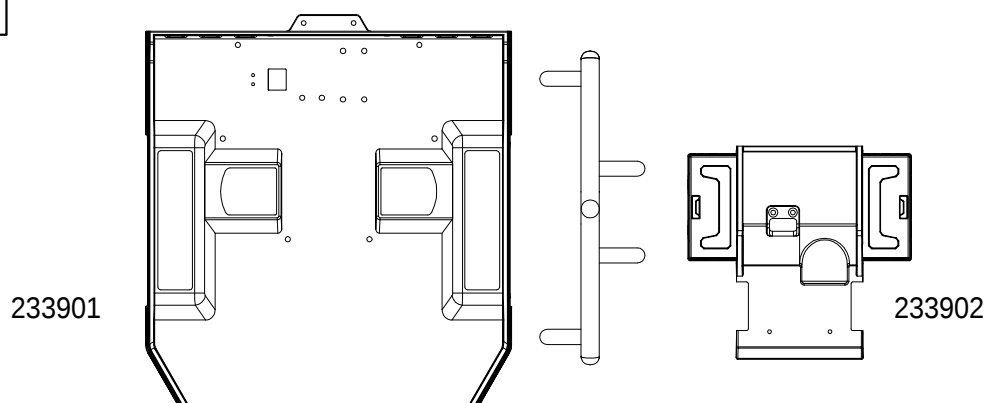
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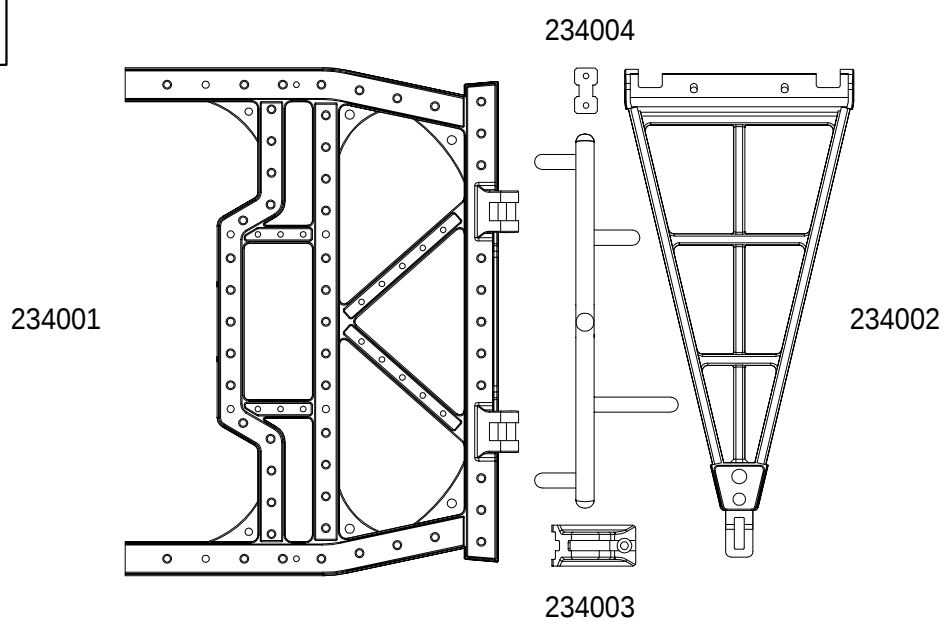
BAG(M)



BAG(N)

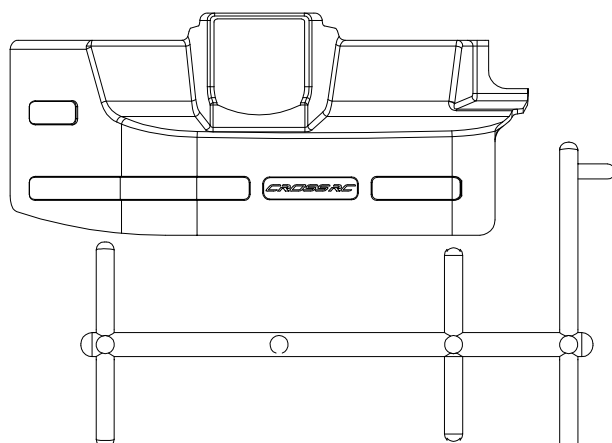


BAG(O)

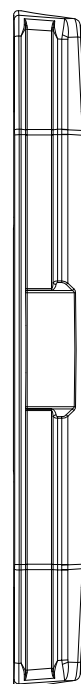


BAG(P)

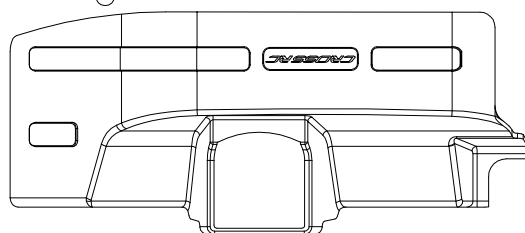
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234103



234101



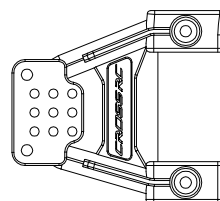
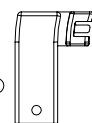
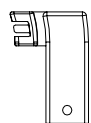
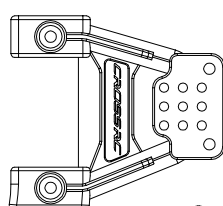
BAG(Q)

234207

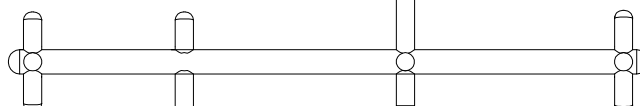
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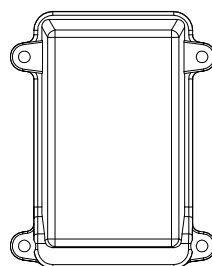
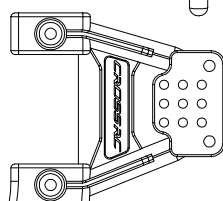
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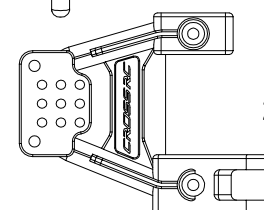
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234203



234208

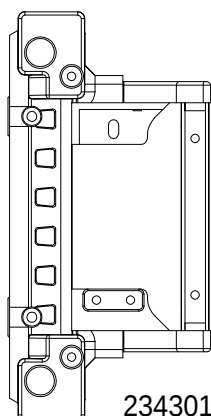


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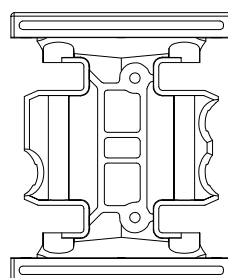
234210

234209

BAG(R)



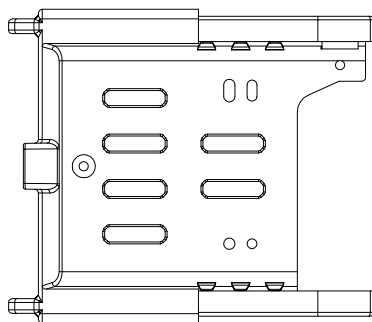
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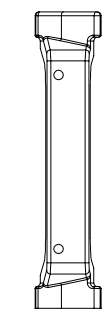
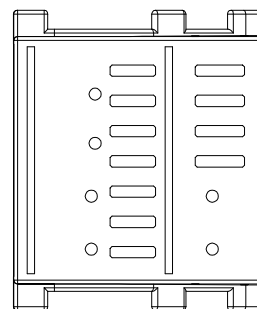
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BAG(S)

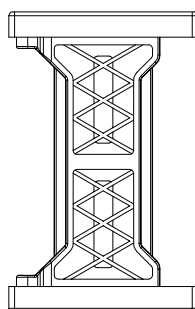
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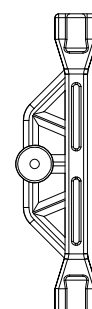
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234402

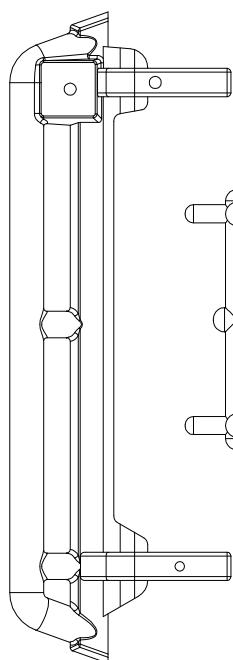


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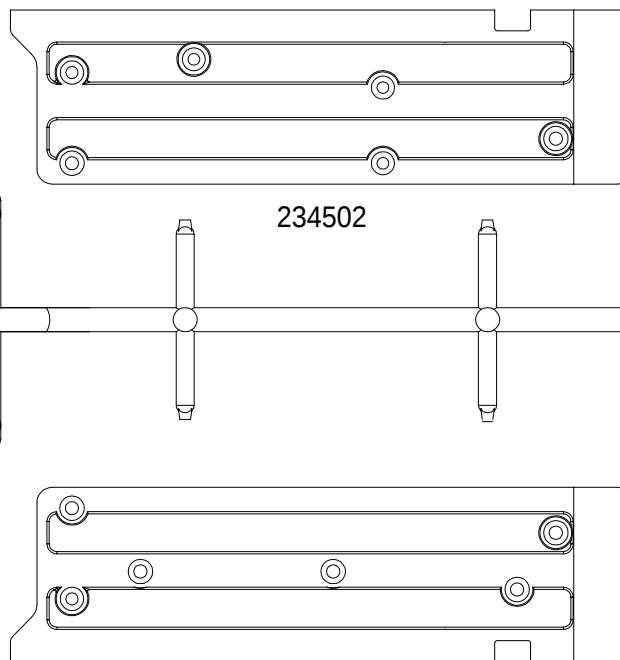


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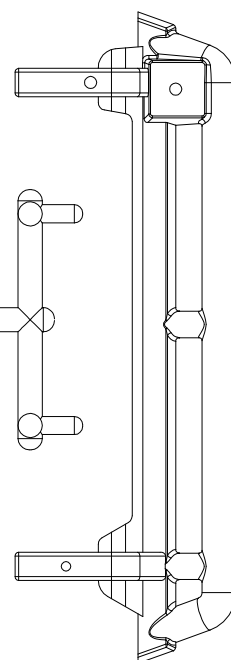
BAG(T)



234504

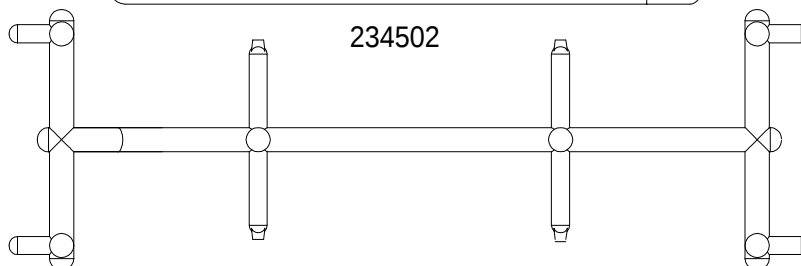


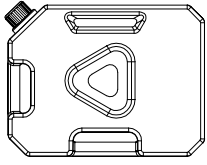
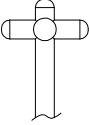
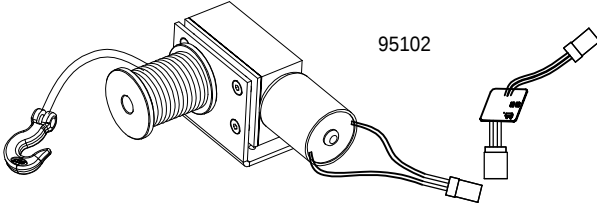
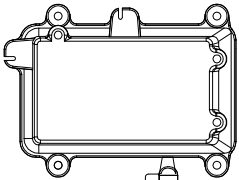
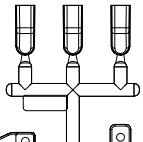
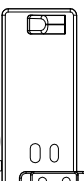
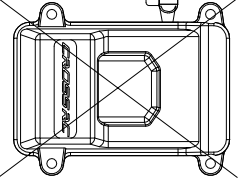
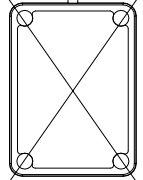
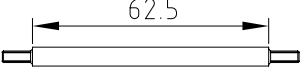
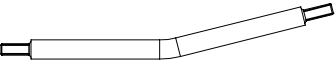
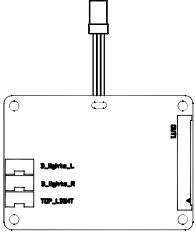
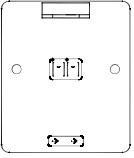
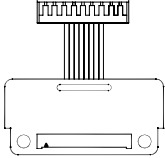
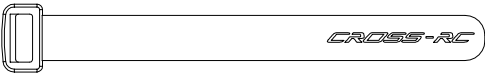
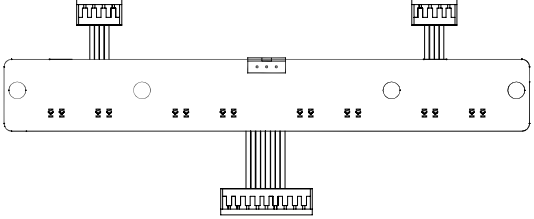
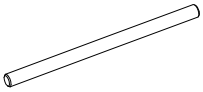
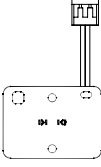
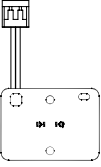
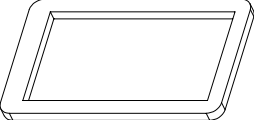
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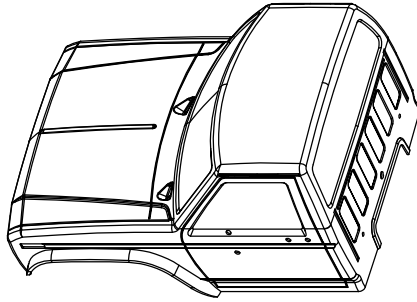
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234502

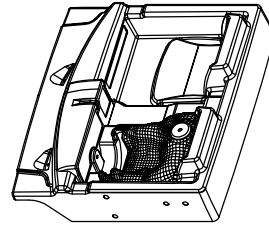


BAG(U)		BAG(V)	
 232203	 232202		 95102
BAG(W)			
	 227902  227910  227911  227909  227903  227904  227901		
BAG(X)			
 41336 X4	 41205	 41780	 41781  223903 X4
BAG(Y)			
 87175	 95096  87176 X2  87179  91004 X1	 87177  94089	 87178  87180  71294  71293

BAG(Z)



237001



238001

BAG(AA)



44172 X1



91175 X3



91176 X2



41819 X2



42231 X2



94056 X1

11227



M2.5x8 X3

12206



M2 X3

11401



M3x4 X3

BAG(BB)

11413

M4x13.5 X6

11227

M2.5x8 X4

11211

M3x18 X9



30411 X2

11102

M2x6 X35

11206

M3x8 X25

11212

M3x20 X4



30402 X2

11106

M3x8 X1

11207

M3x10 X33

11213

M3x22 X4



94114 X2

11303

M3x8 X4

11208

M3x12 X25

11214

M3x25 X13

12307



M3 X4

11306

M3x10 X9

11209

M3x14 X4

11215

M3x28 X4

12203



M3 X2

11313

M3x20 X4

11210

M3x16 X17

11223

M3x30 X2

14102



Ø3xØ7x0.5X20

11401

M3x4 X1



42209 X2

11238



M3x8x10 X2

11242



M3x14 X2

EMOX3

BAG(C)

15012

 $\phi 5 \times \phi 10 \times 4$ X5

72007

 $\phi 5 \times \phi 8 \times 0.3 \times 3$

11315



M2.5x6 X3

15014

 $\phi 5 \times \phi 8 \times 2.5$ X4

42236

 $\phi 5.1 \times \phi 7.5 \times 2.5$ X1

42203

 $\phi 5.1 \times \phi 8 \times 1.5$ X2

13001

 $\phi 3 \times \phi 7.8 \times 0.5$ X2

15012

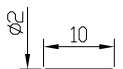
 $\phi 5 \times \phi 10 \times 4$ X1

11207

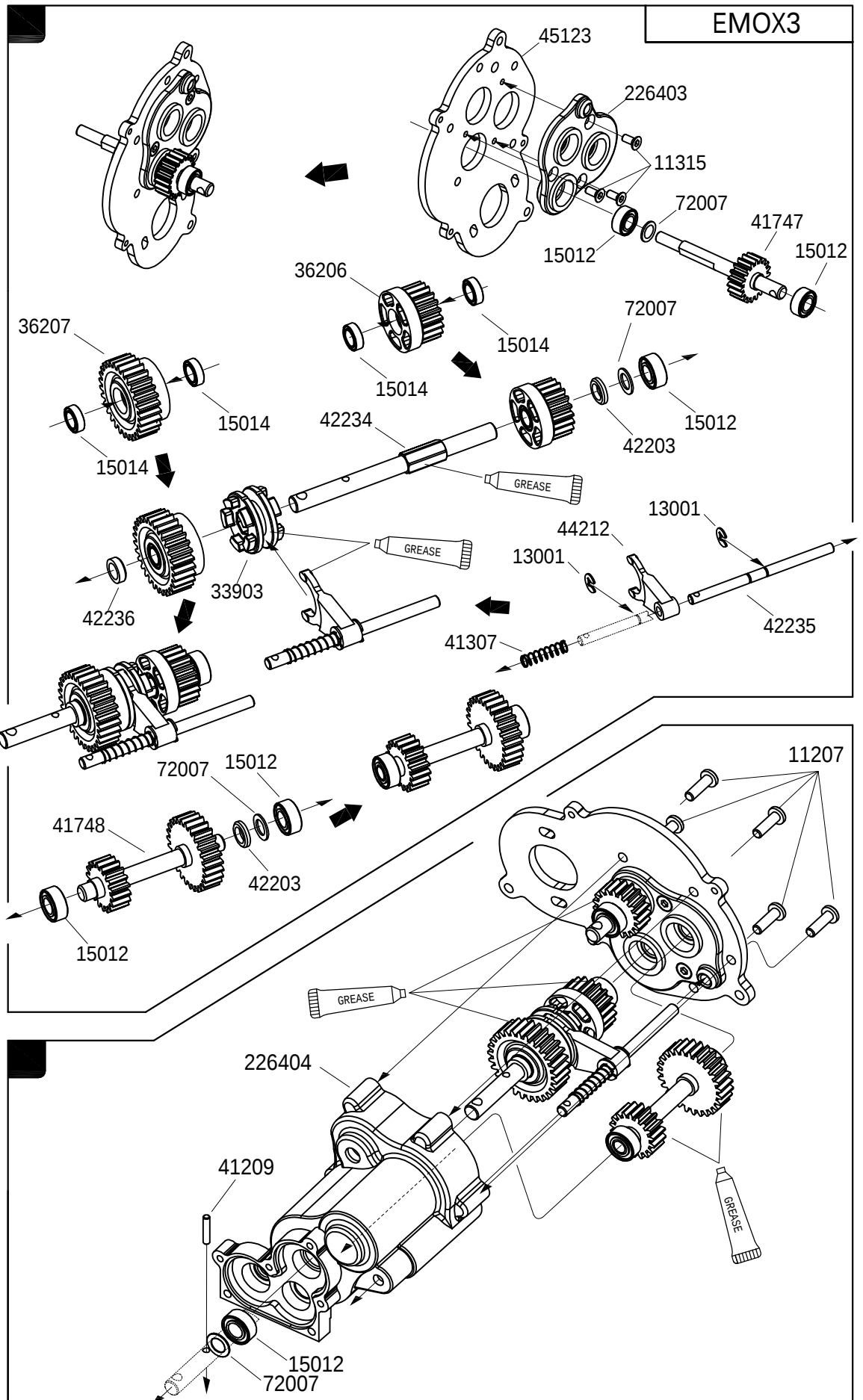


M3x10 X5

72007

 $\phi 5 \times \phi 8 \times 0.3 \times 1$ 

41209 X1



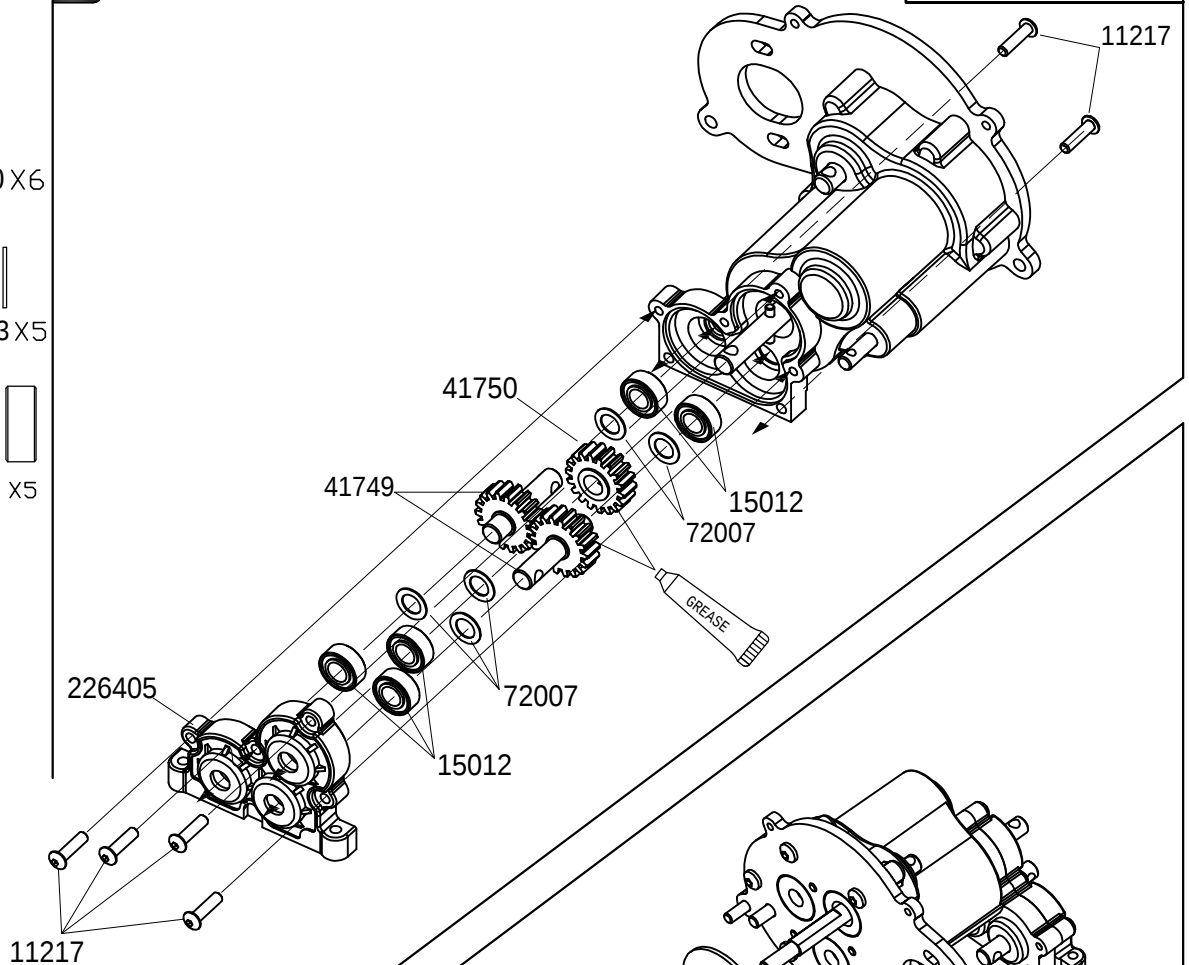
EMOX3

BAG(C)

11217 
M2.5x10 X6

72007 
ø5xø8x0.3 X5

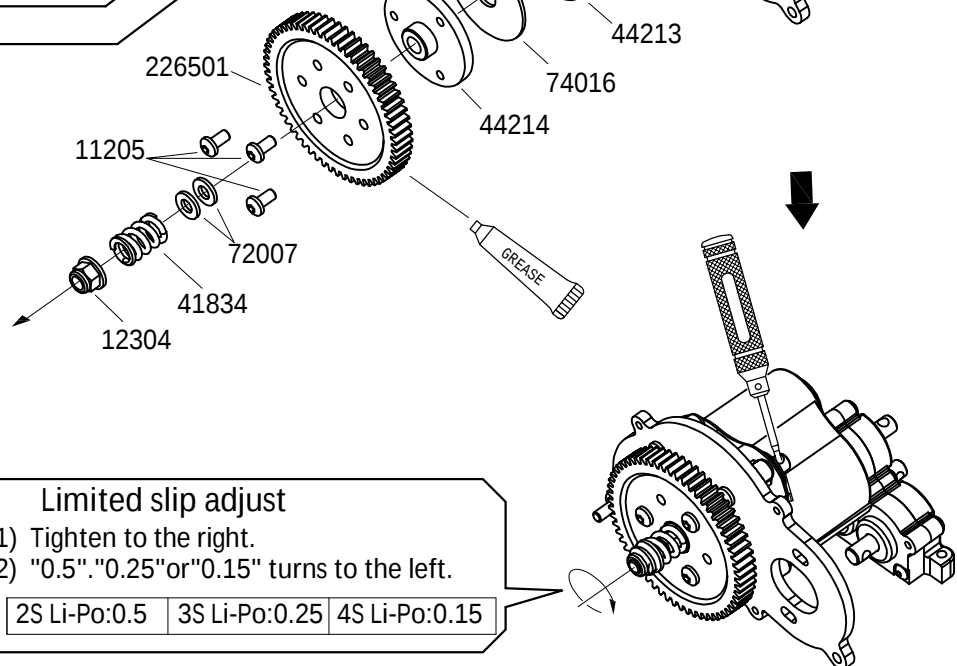
15012 
ø5xø10x4 X5



12304 
M4 X1

72007 
ø5xø8x0.3 X2

11205 
M3x6 X3



Limited slip adjust

- (1) Tighten to the right.
- (2) "0.5"."0.25"or"0.15" turns to the left.

2S Li-Po:0.5 3S Li-Po:0.25 4S Li-Po:0.15

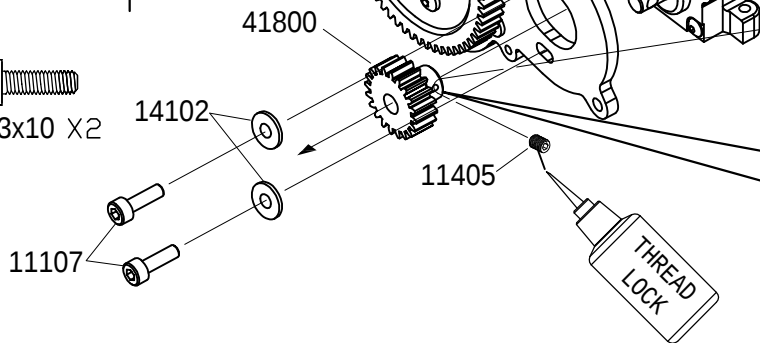
EMOX3

BAG(C)

11405 
M4x4 X1

14102 
ø3xø7x0.5 X2

11107 
M3x10 X2



11331 
M4x10 X2

Final reduction ratio

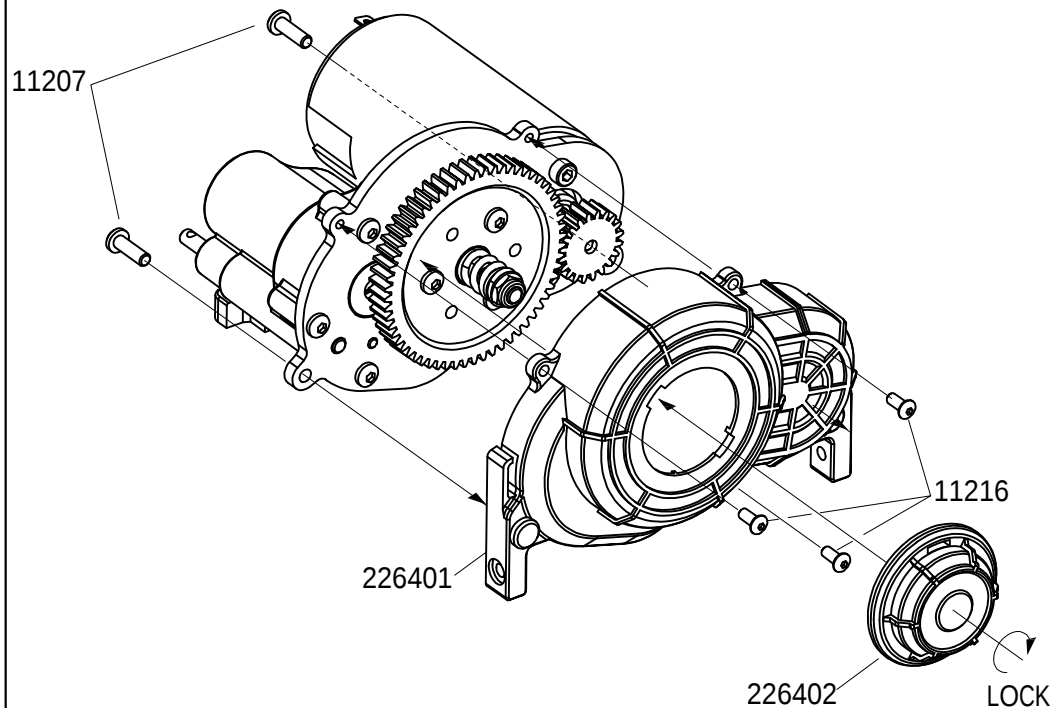
Motor gear	16T	17T	18T	19T	20T	21T
Fast	22.1	20.8	19.6	18.6	17.8	17
Slow	48.3	45.4	42.9	40.6	38.9	37

Tips:
Tighten the screws with one sheet of paper inserted between both gears.

EMOX3

11207 
M3x10 X2

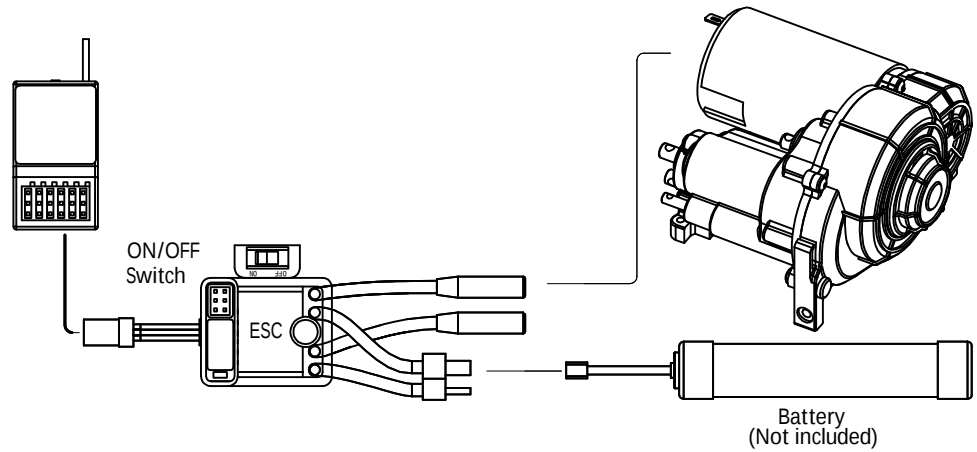
11216 
M2.5x6 X3



EMOX3

Tips:

Test the gear mesh by connecting the ESC to the motor/gearbox assembly. If the gearbox is not operating smoothly or is creating excess noise, check the gear mesh prior to proceeding to the next step.



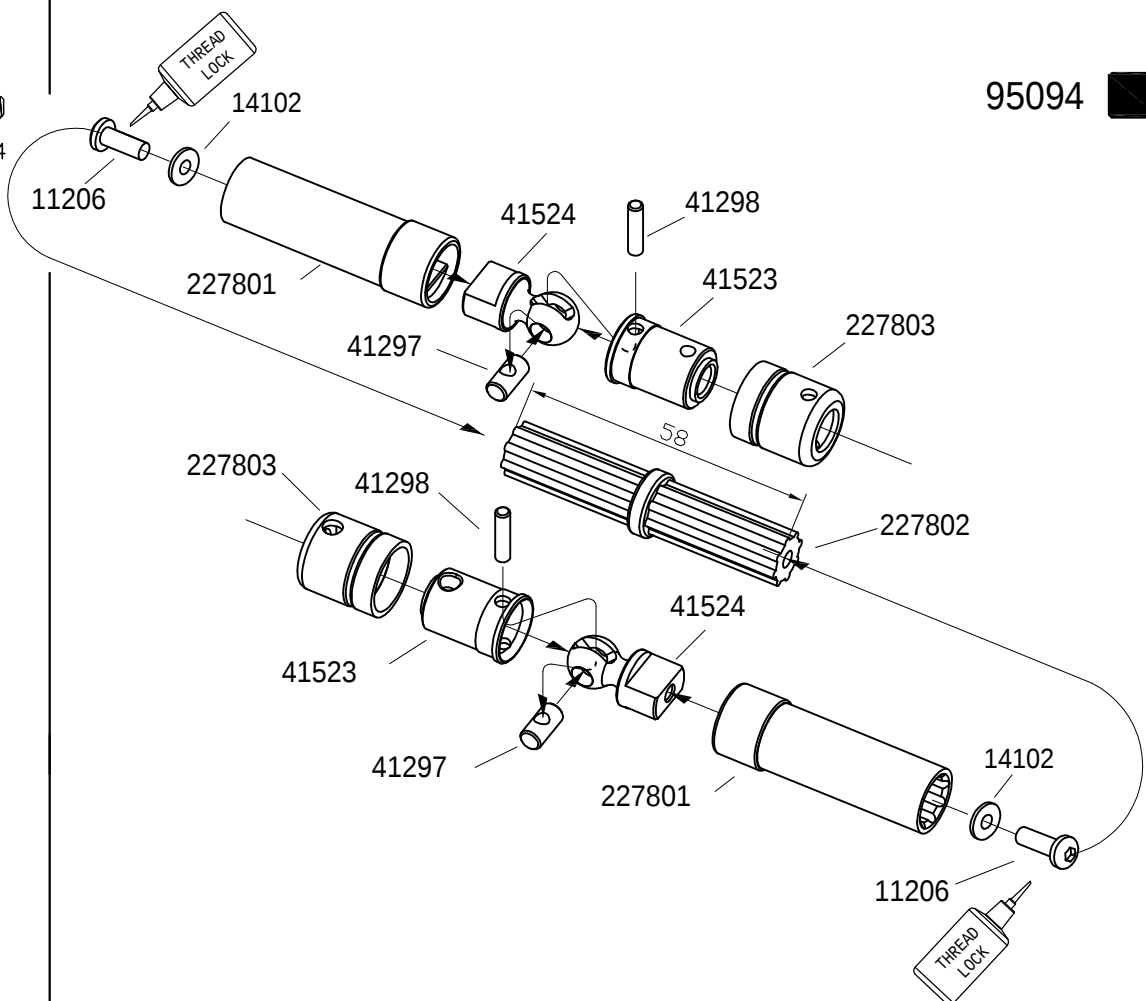
EMOX3

BAG(H)

95094

11206 M3x8 X4

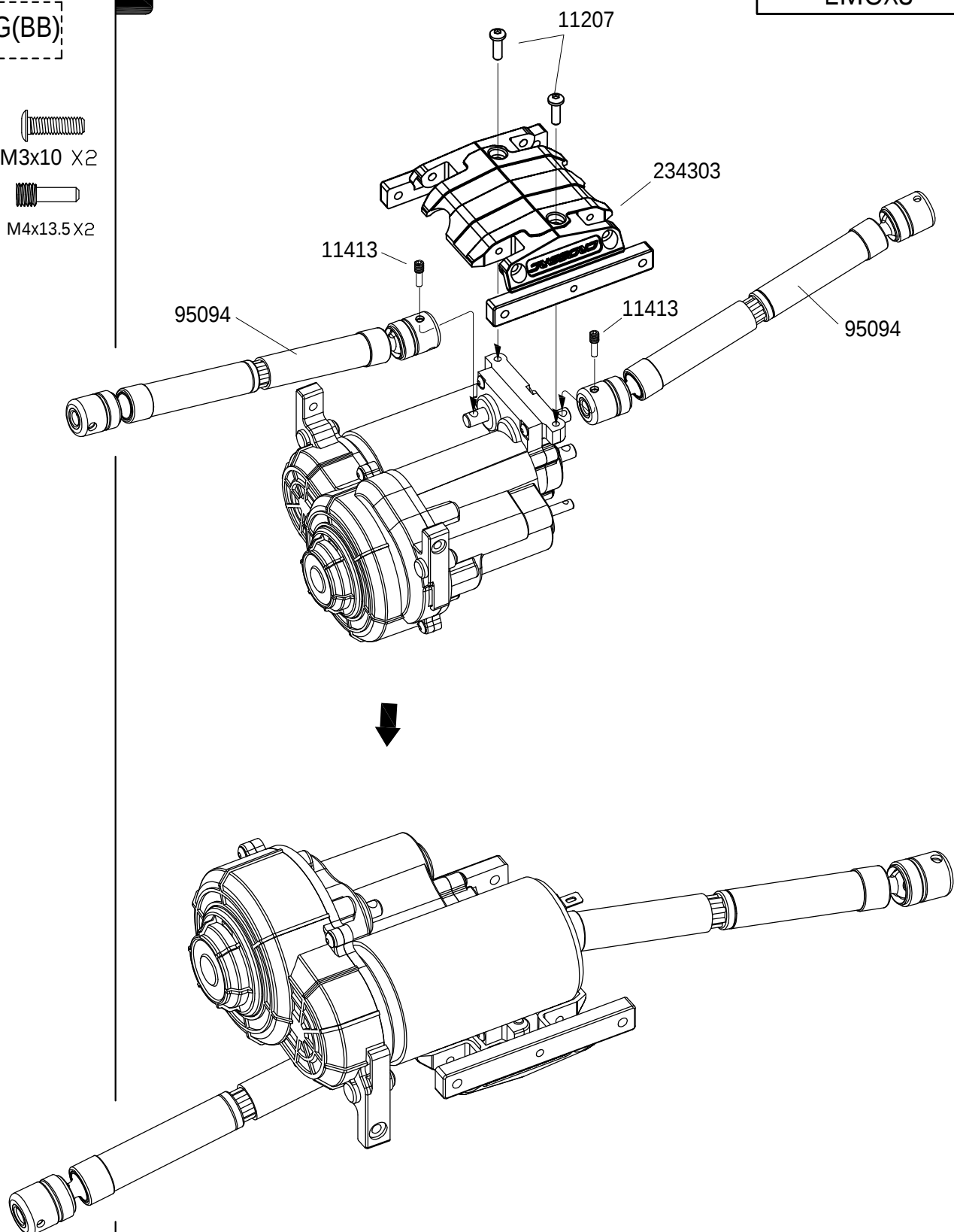
14102
Ø3xØ7x0.5 X4



BAG(BB)

11207 
M3x10 X2

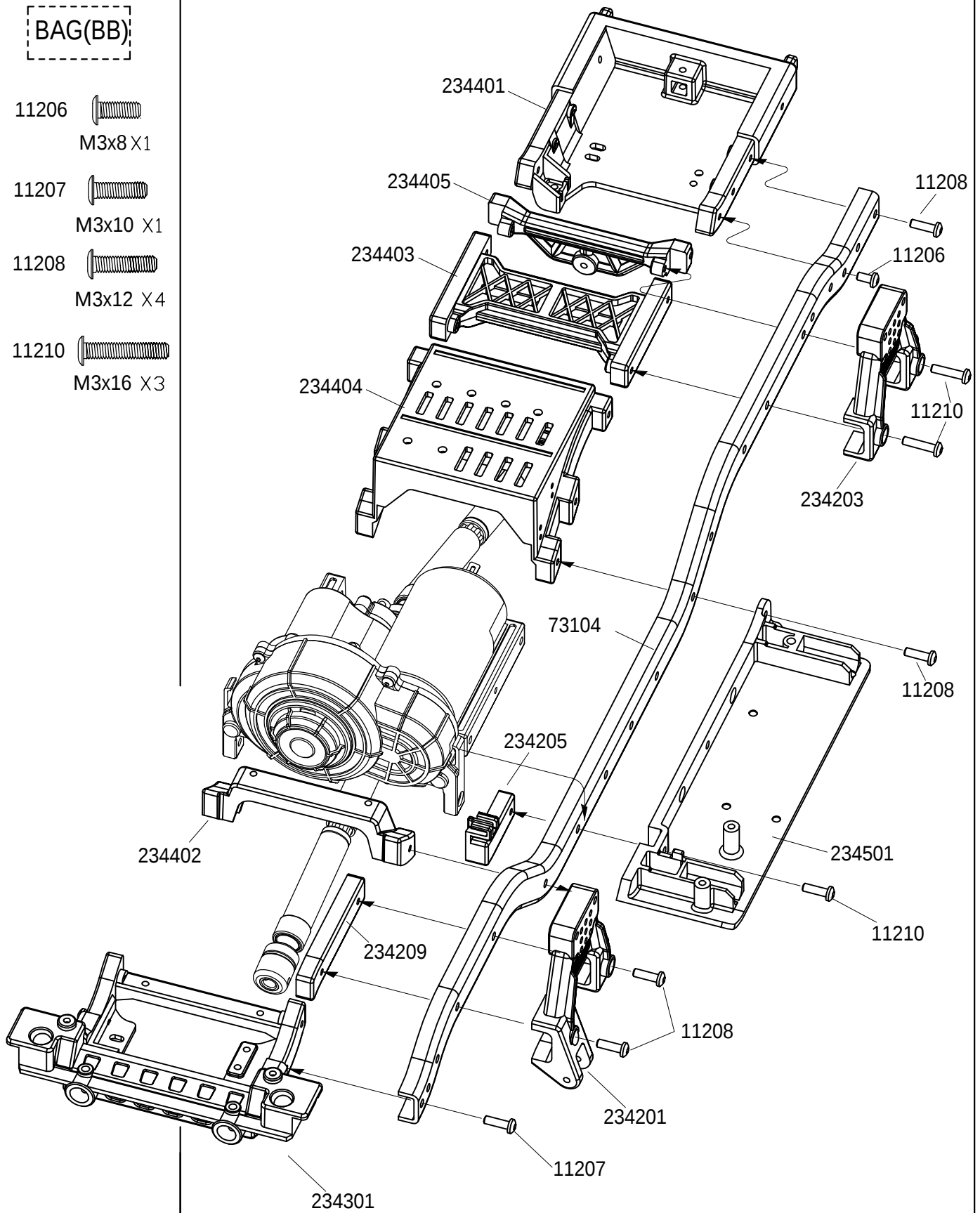
11413 
M4x13.5 X2



EMOX3

BAG(BB)

- 11206  M3x8 X1
- 11207  M3x10 X1
- 11208  M3x12 X4
- 11210  M3x16 X3



BAG(BB)

11206 
M3x8 X1

11208

11206

11210

73105

11208

11207 
M3x10 X1

11208 
M3x12 X4

11210 
M3x16 X3

234502

11210

11208

11207

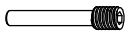
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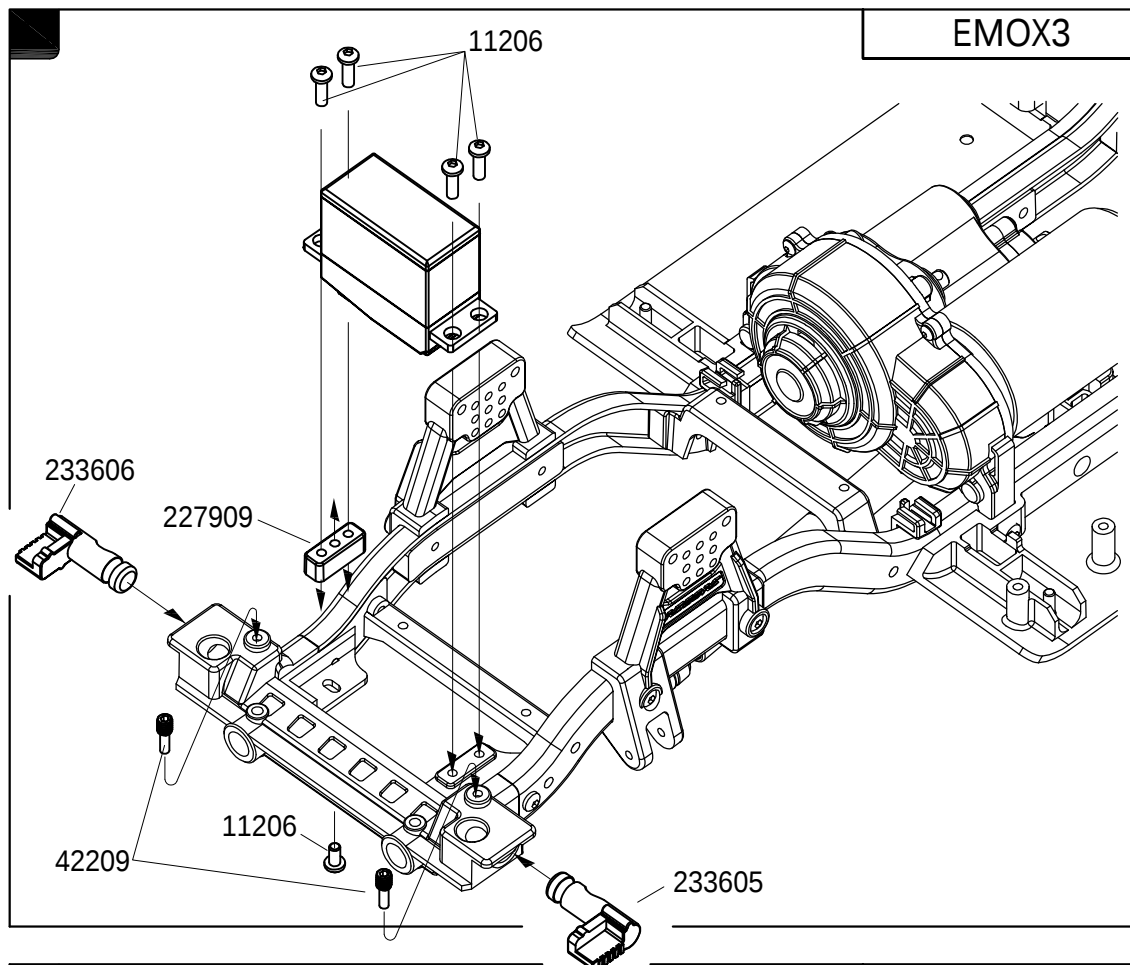
234210

EMOX3

BAG(BB)

11206 
M3x8 X5


42209 X2



EMOX3

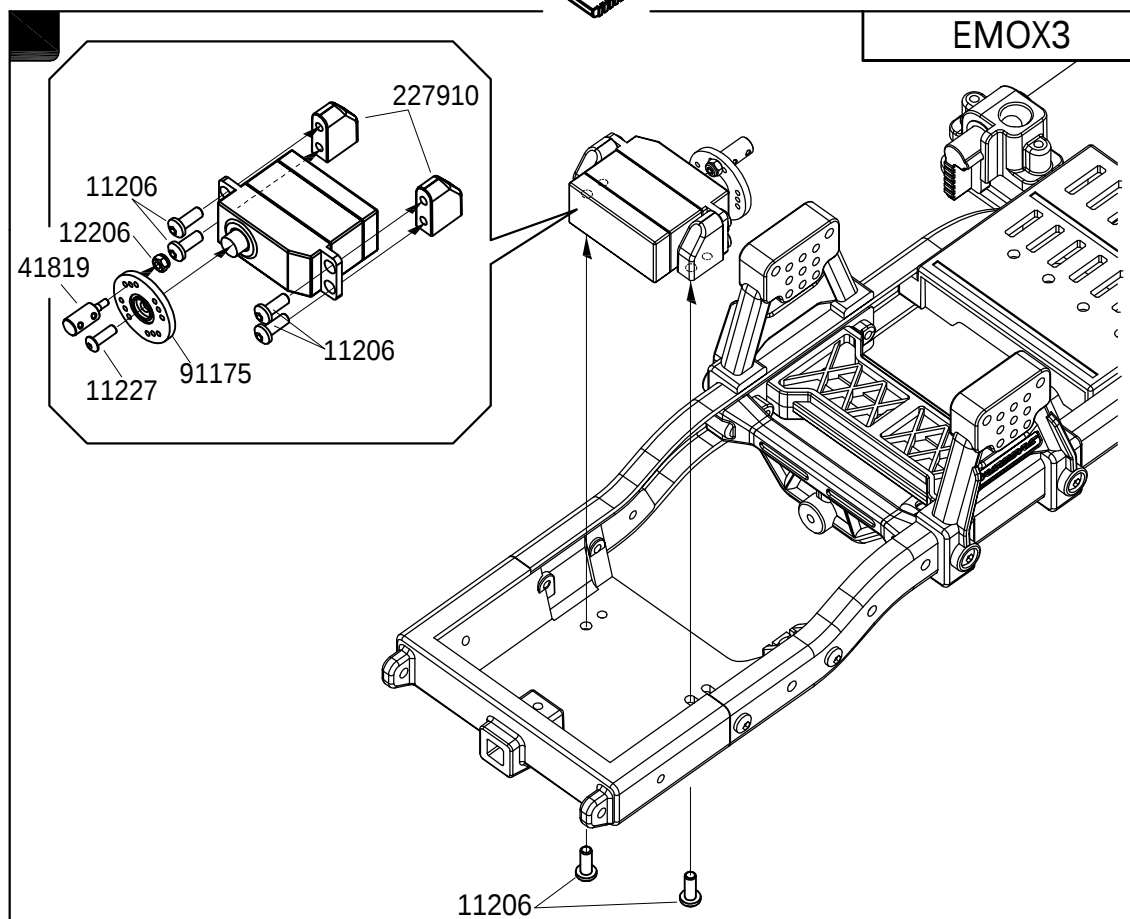
11206 
M3x8 X6

BAG(AA)

11227 
M2.5x8 X1

12206 
M2 X1


41819 X1

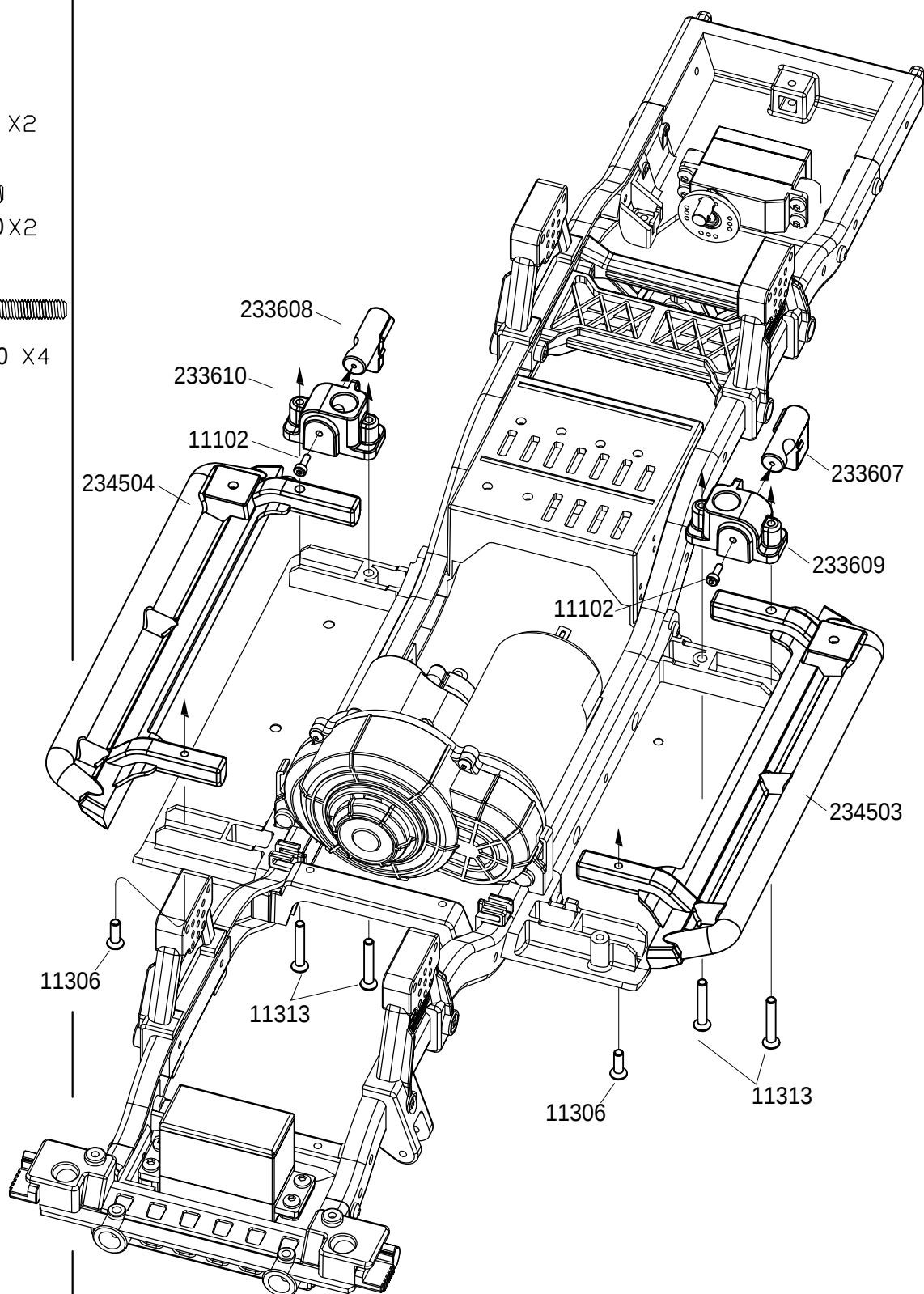


BAG(BB)

11102 
M2x6 X2

11306 
M3x10 X2

11313 
M3x20 X4



EMOX3

BAG(B)

13003  $\phi 2.5 \times \phi 6 \times 0.4 \times 8$

14109  $\phi 4 \times \phi 2 \times 0.5 \times 4$

50021 X4  $\phi 7.5 \times \phi 3.5 \times \phi 2$

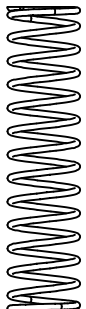
17001 X4  $\phi 8 \times \phi 6 \times \phi 1$

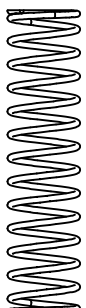
50061 X8  $\phi 7.2 \times \phi 3.4 \times \phi 1.9$

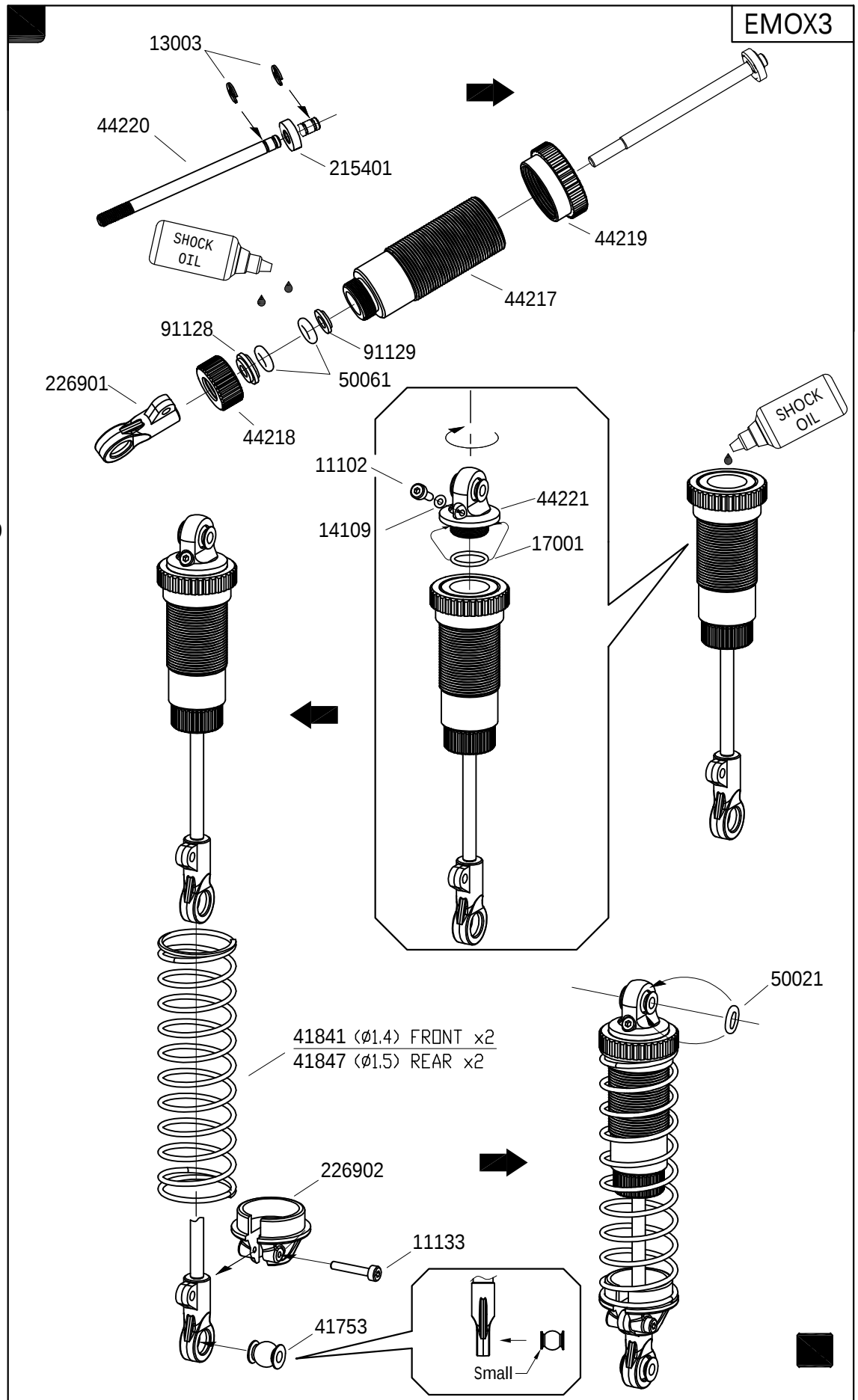
11133  M2x12 X4

11102  M2x6 X4

41753 X4 

41841 X2($\phi 1.4$) 

41847 X2($\phi 1.5$) 

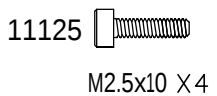
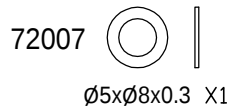
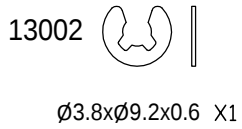
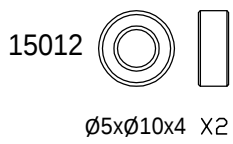
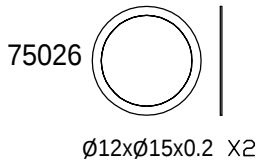
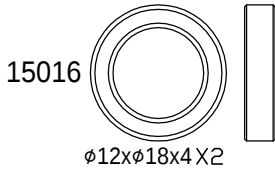
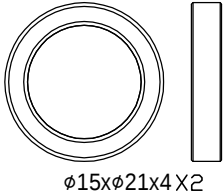


BAG(D)

11316  M2.5x10 X2

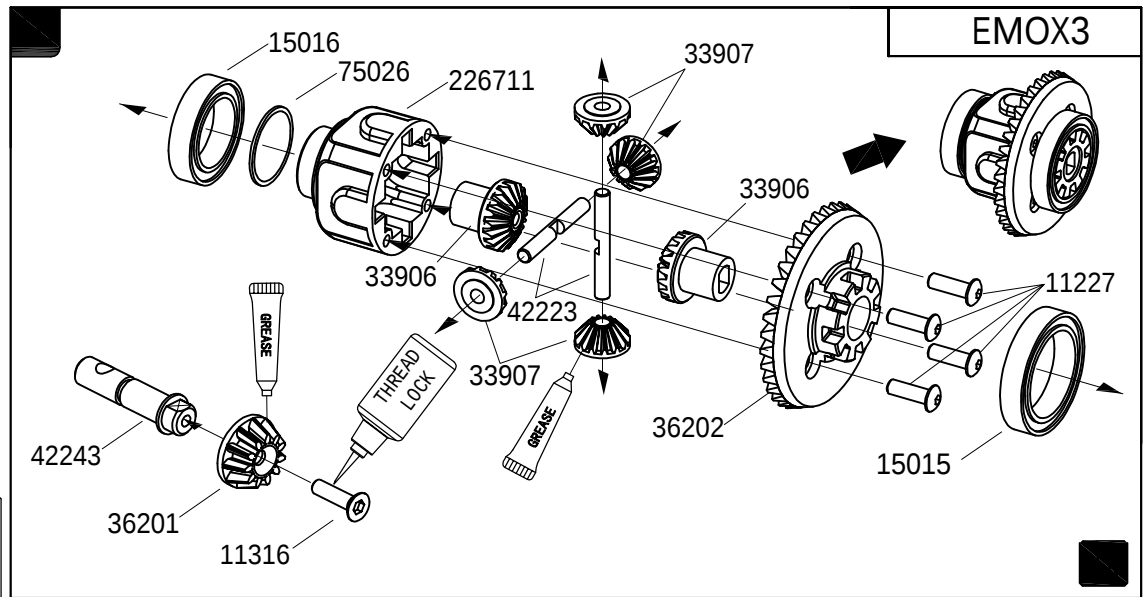
11227  M2.5x8 X8

15015

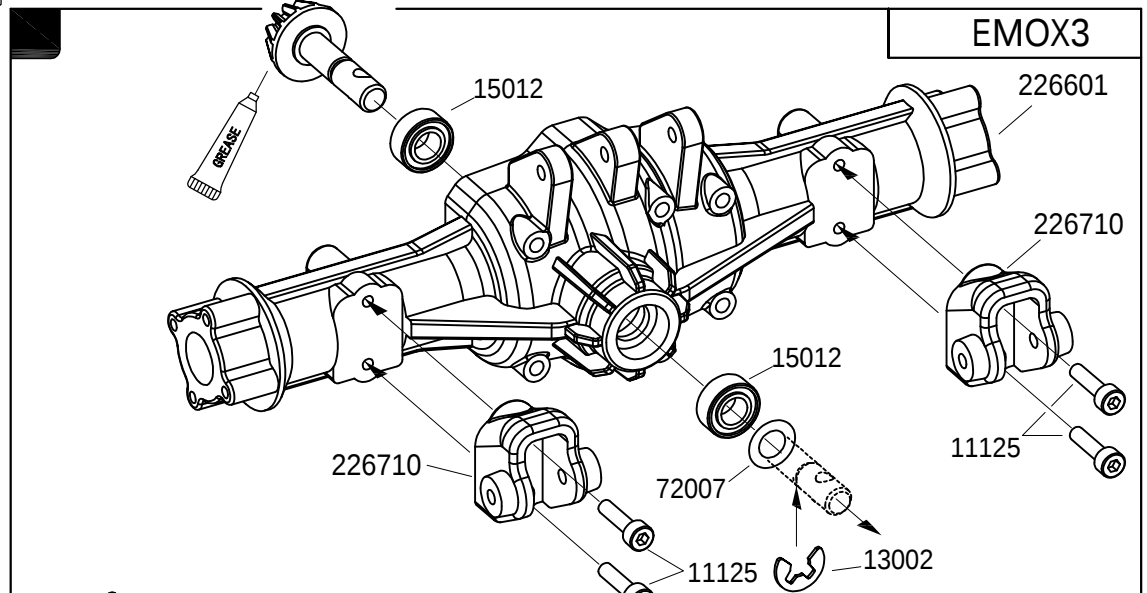


11316  M2.5x10 X8

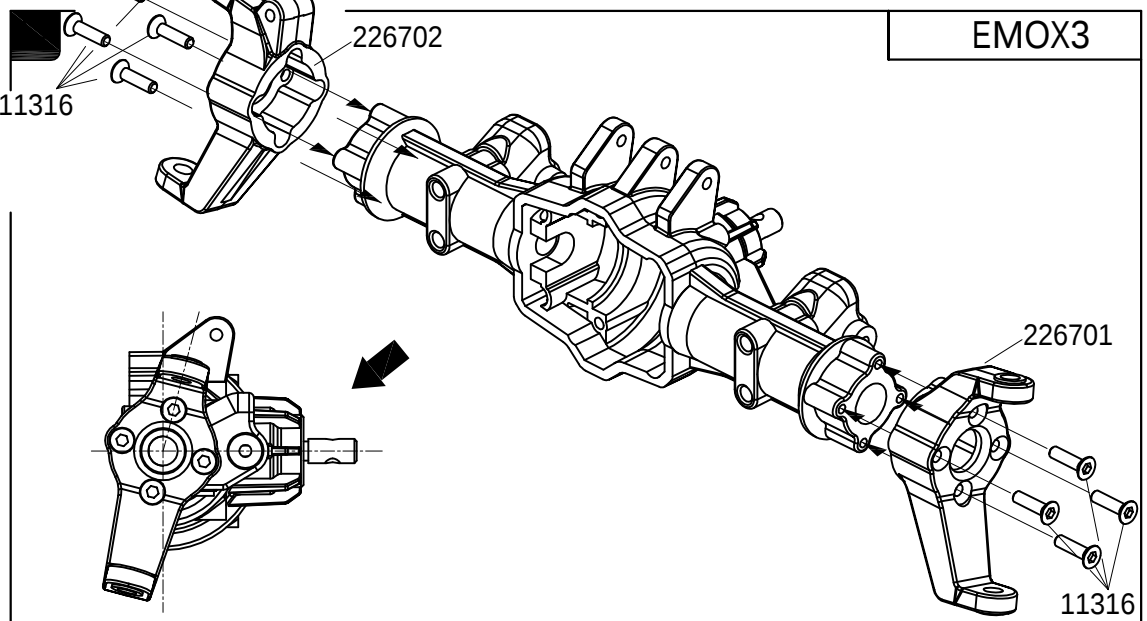
EMOX3



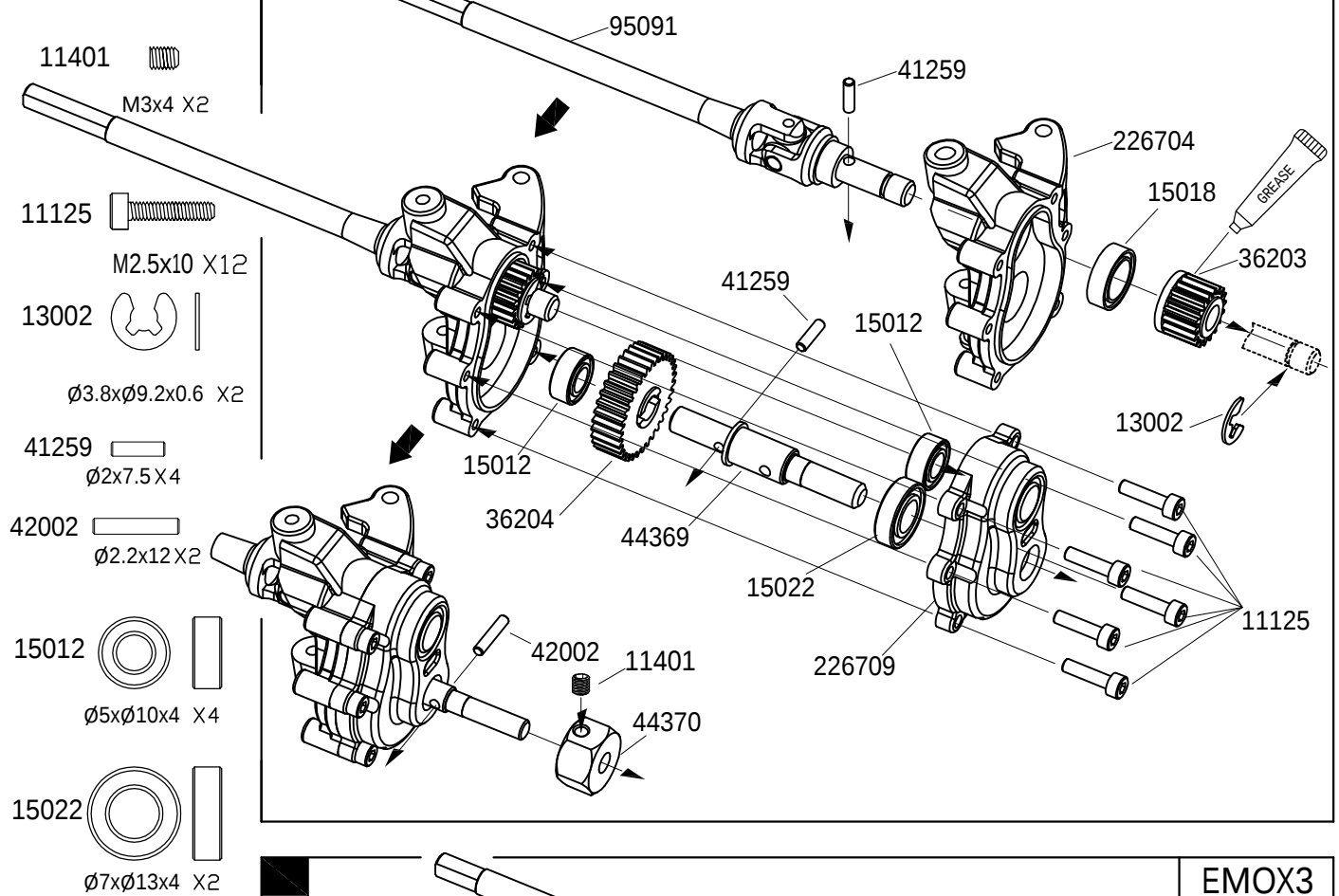
EMOX3



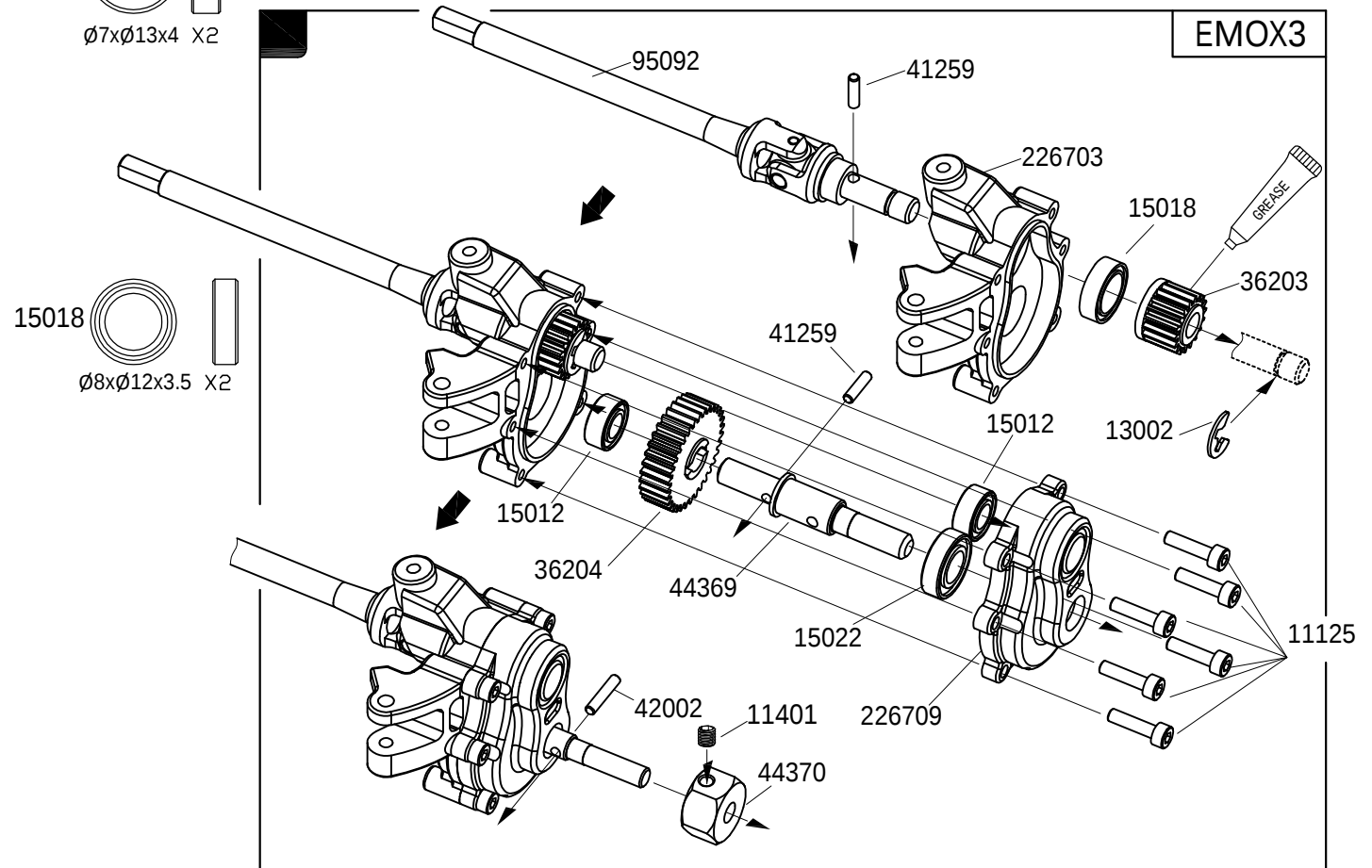
EMOX3



EMOX3

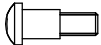


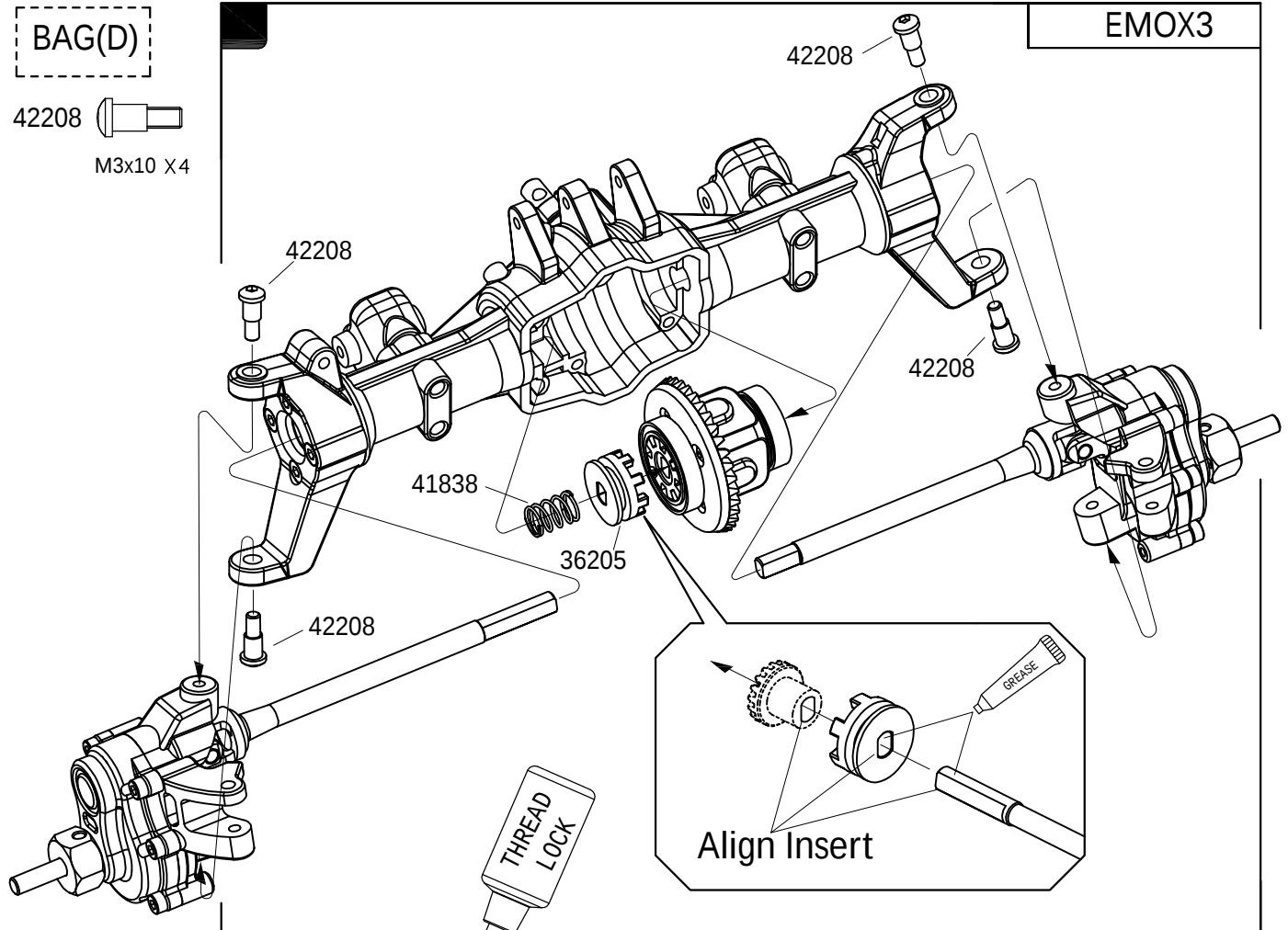
EMOX3



EMOX3

BAG(D)

42208 
M3x10 X4

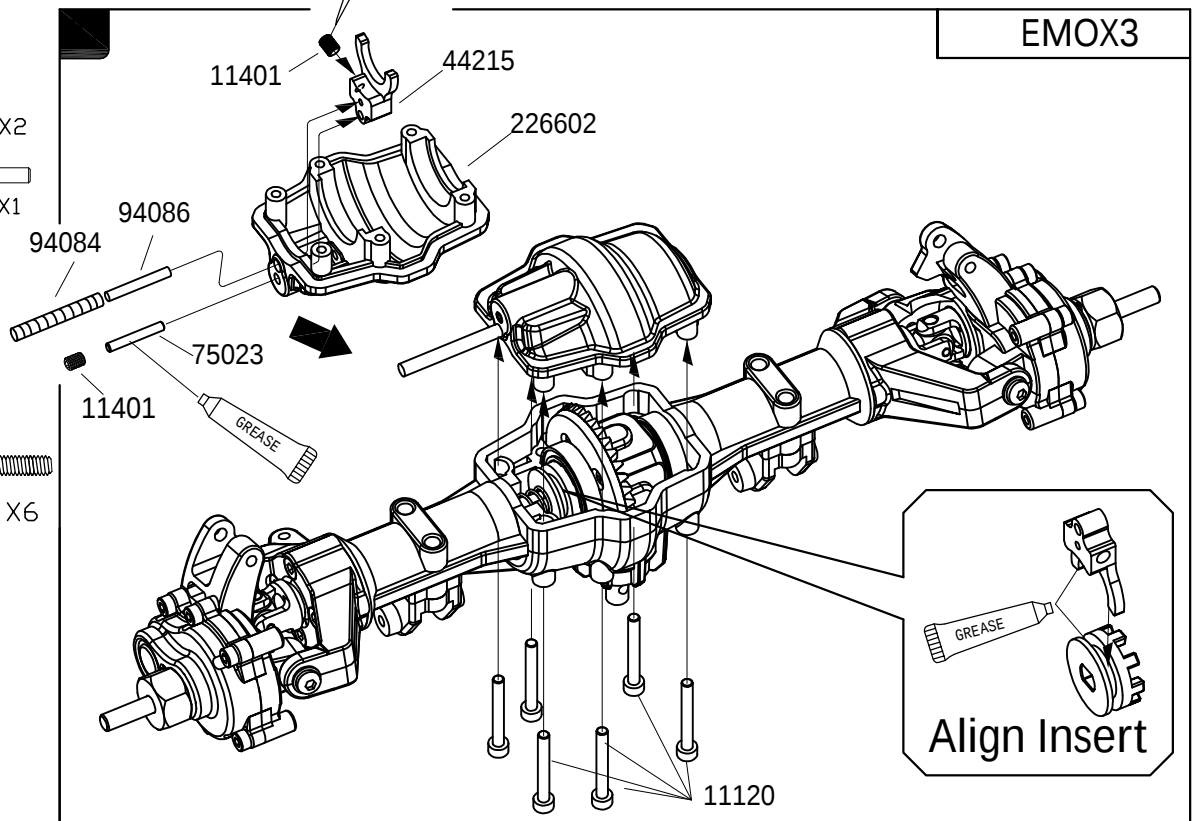


EMOX3

11401 
M3x4 X2

75023 
Ø2x14 X1

11120 
M2.5x20 X6

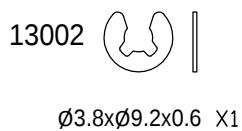


EMOX3

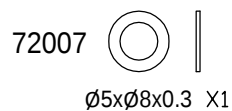
BAG(D)



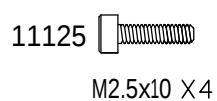
15012
 $\varnothing 5 \times \varnothing 10 \times 4$ X2



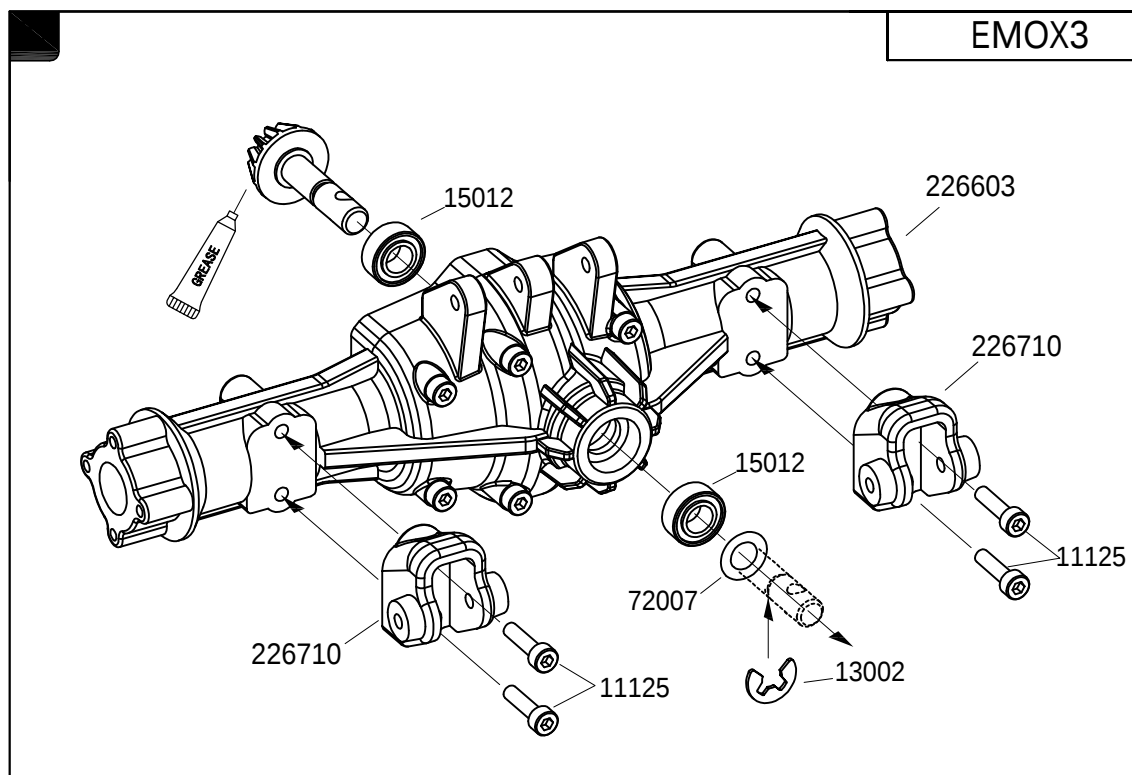
13002
 $\varnothing 3.8 \times \varnothing 9.2 \times 0.6$ X1



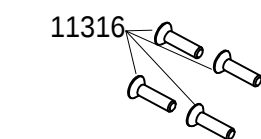
72007
 $\varnothing 5 \times \varnothing 8 \times 0.3$ X1



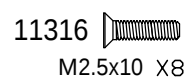
11125
 M2.5x10 X4



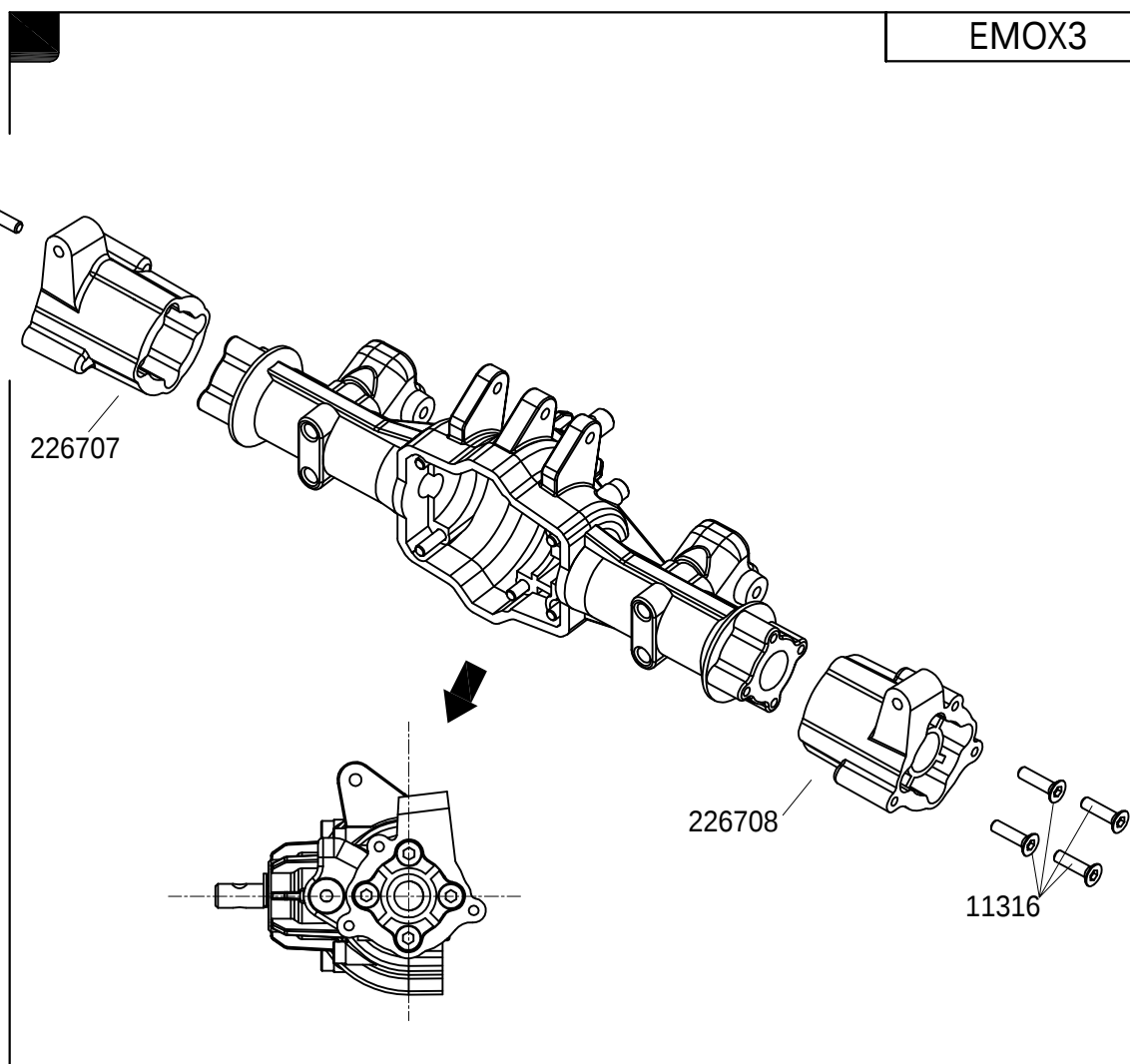
EMOX3



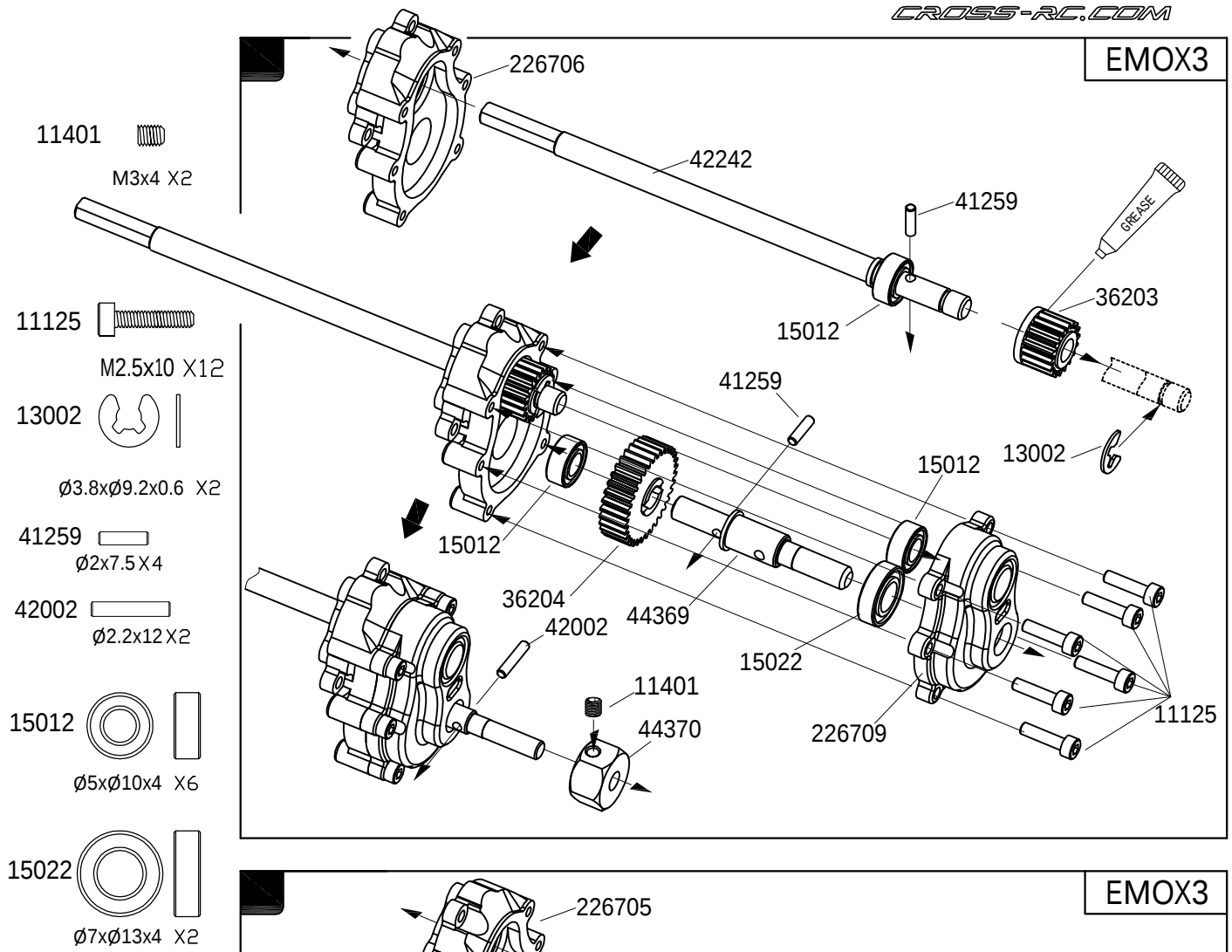
11316
 M2.5x10 X8



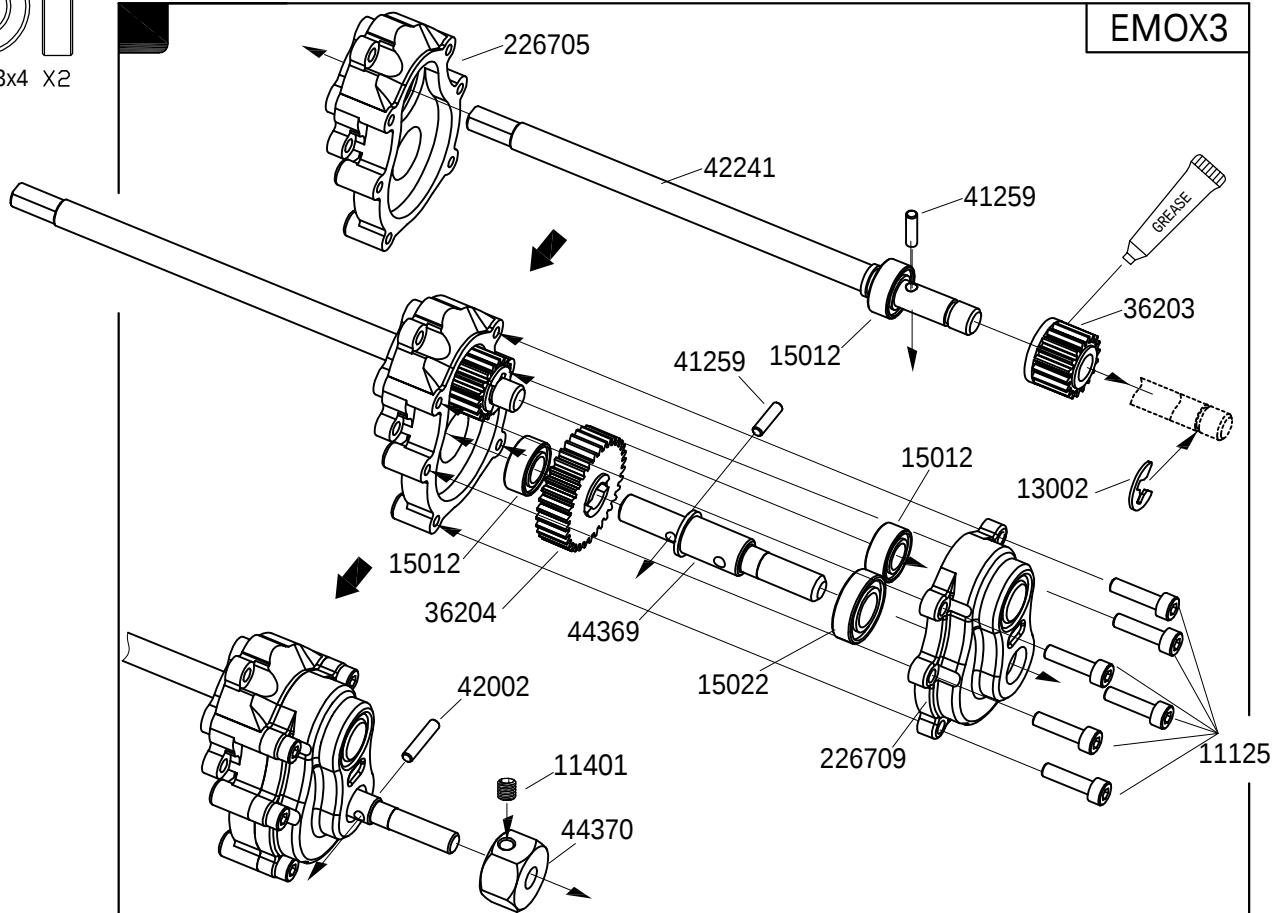
11316
 M2.5x10 X8



EMOX3



EMOX3

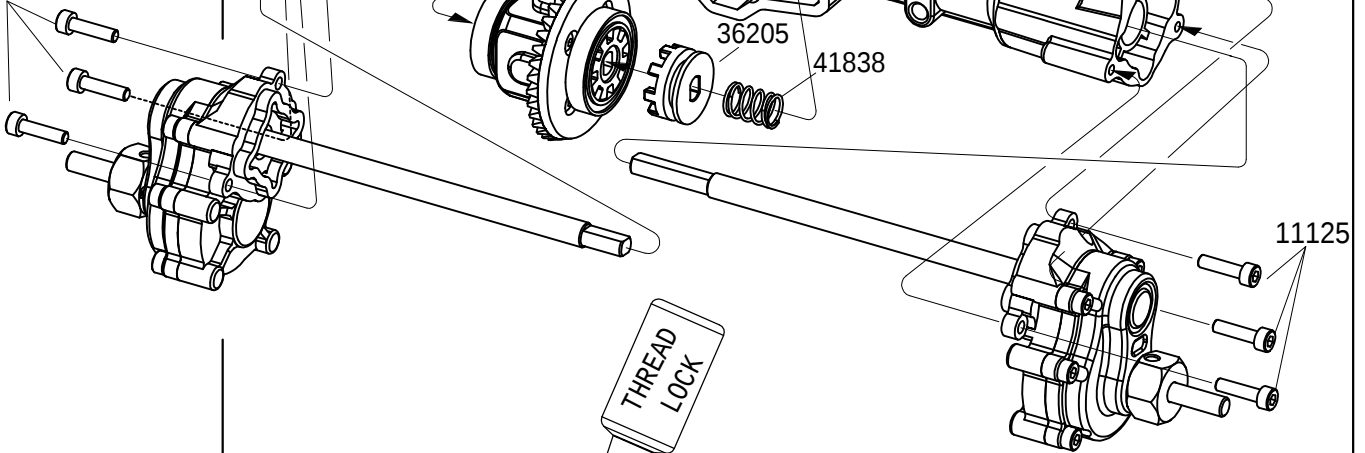


EMOX3

BAG(D)

11125  M2.5x10 X6

11125



EMOX3

11401

44215

226602

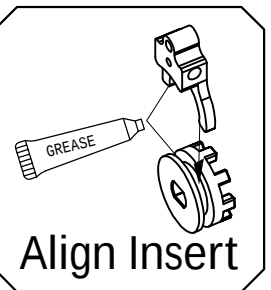
94085

94087

11401

75023

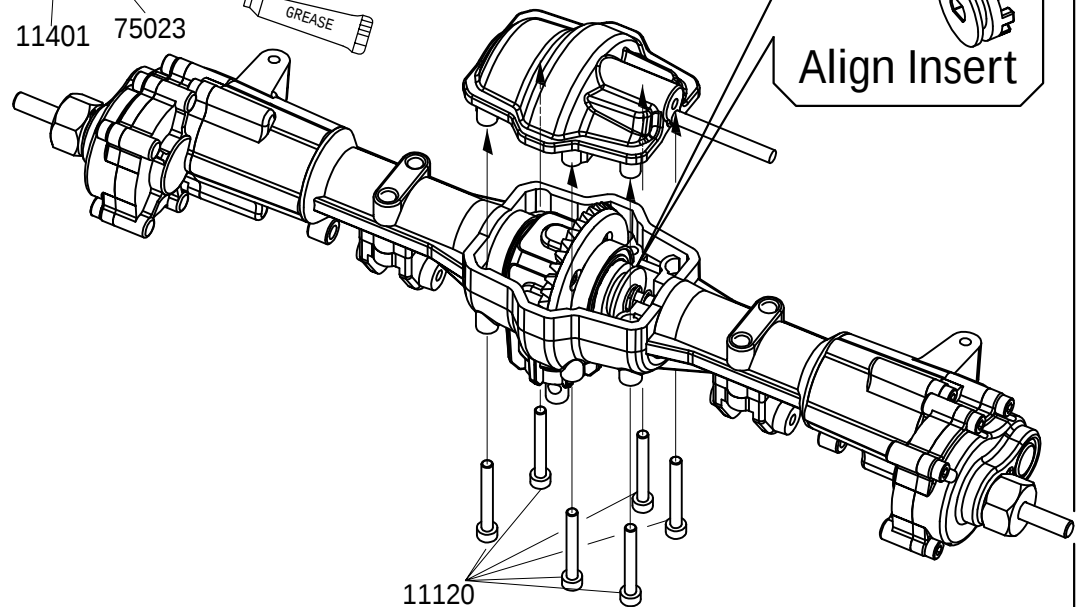
GREASE



11401  M3x4 X2

75023  Ø2x14 X1

11120  M2.5x20 X6



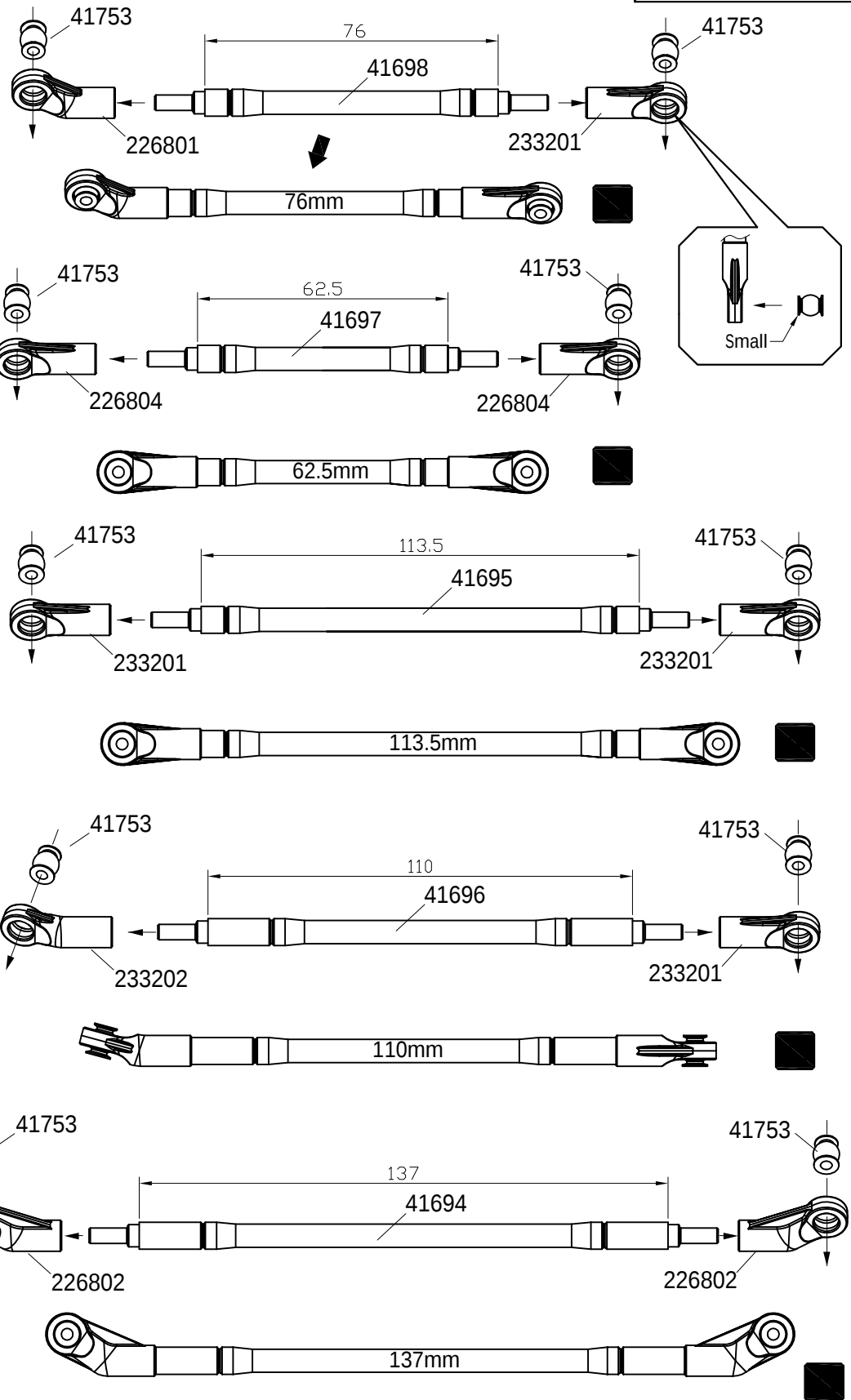
EMOX3

BAG(F)

BAG(G)



41753 X20



EMOX3

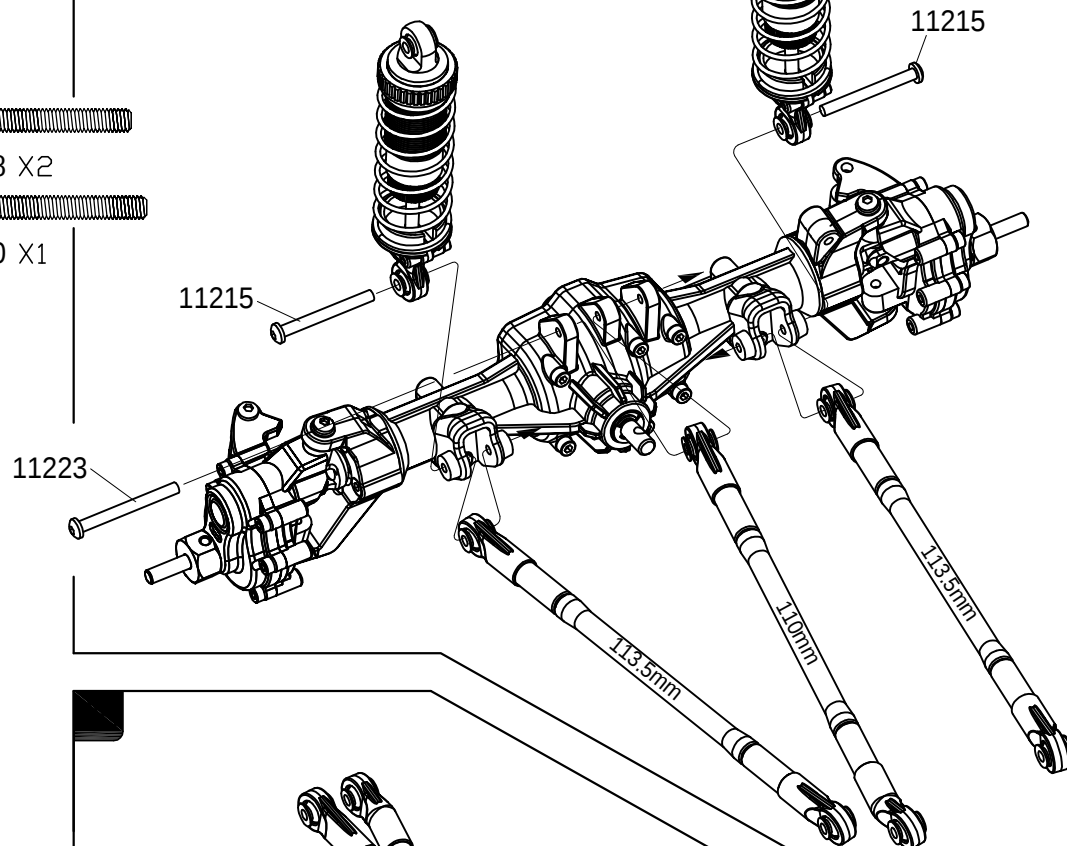
BAG(BB)

11215 

M3x28 X2

11223 

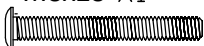
M3x30 X1

11210 

M3x16 X1

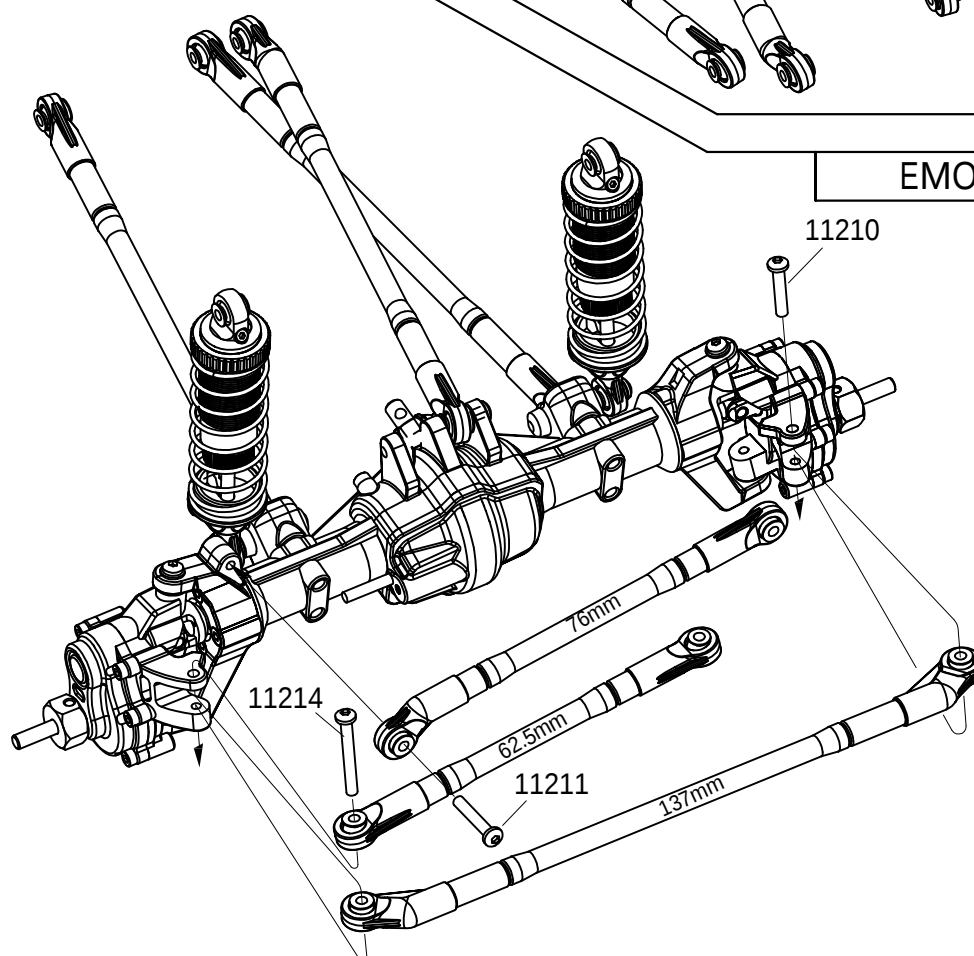
11211 

M3x18 X1

11214 

M3x25 X1

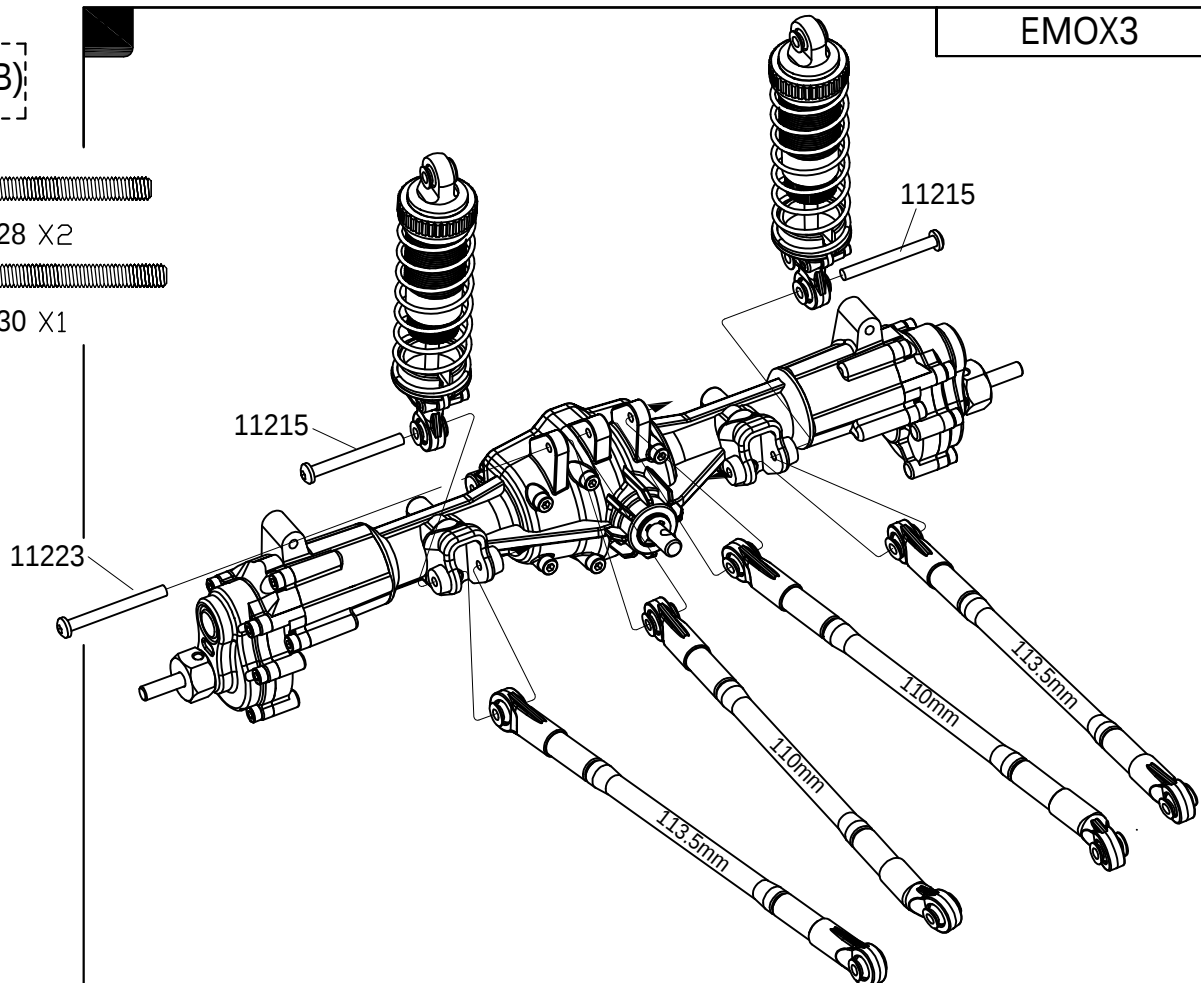
EMOX3



EMOX3

BAG(BB)

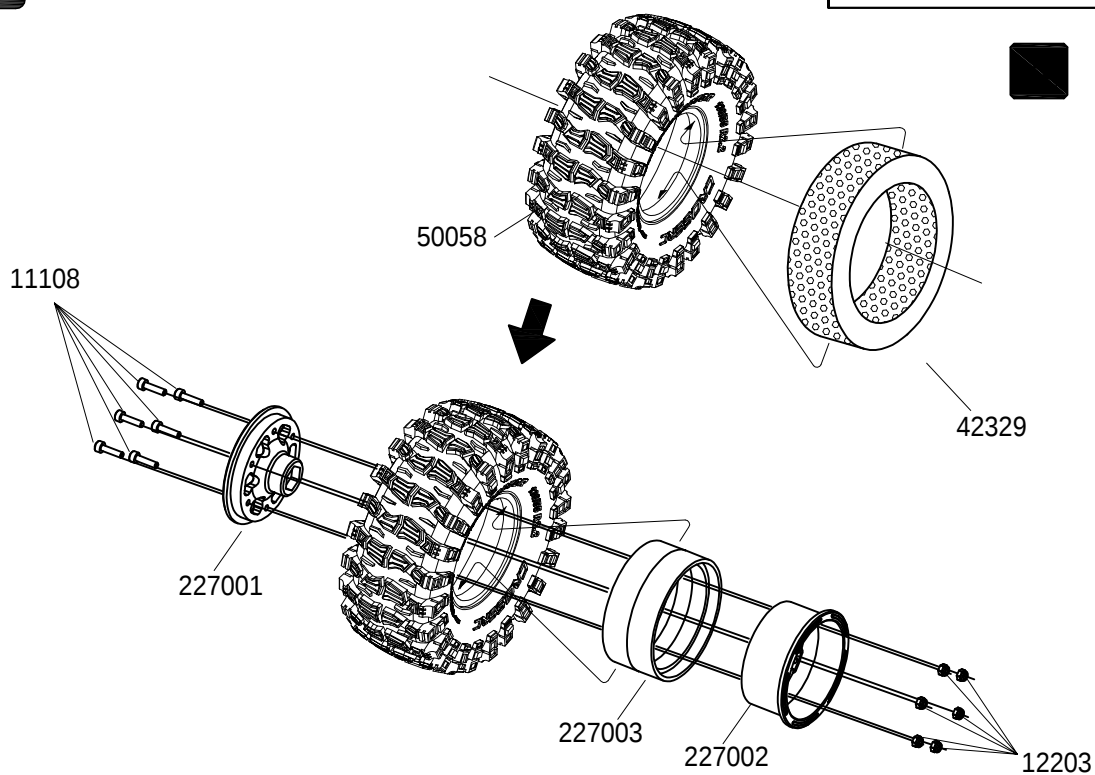
- 11215  M3x28 X2
 11223  M3x30 X1



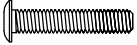
EMOX3

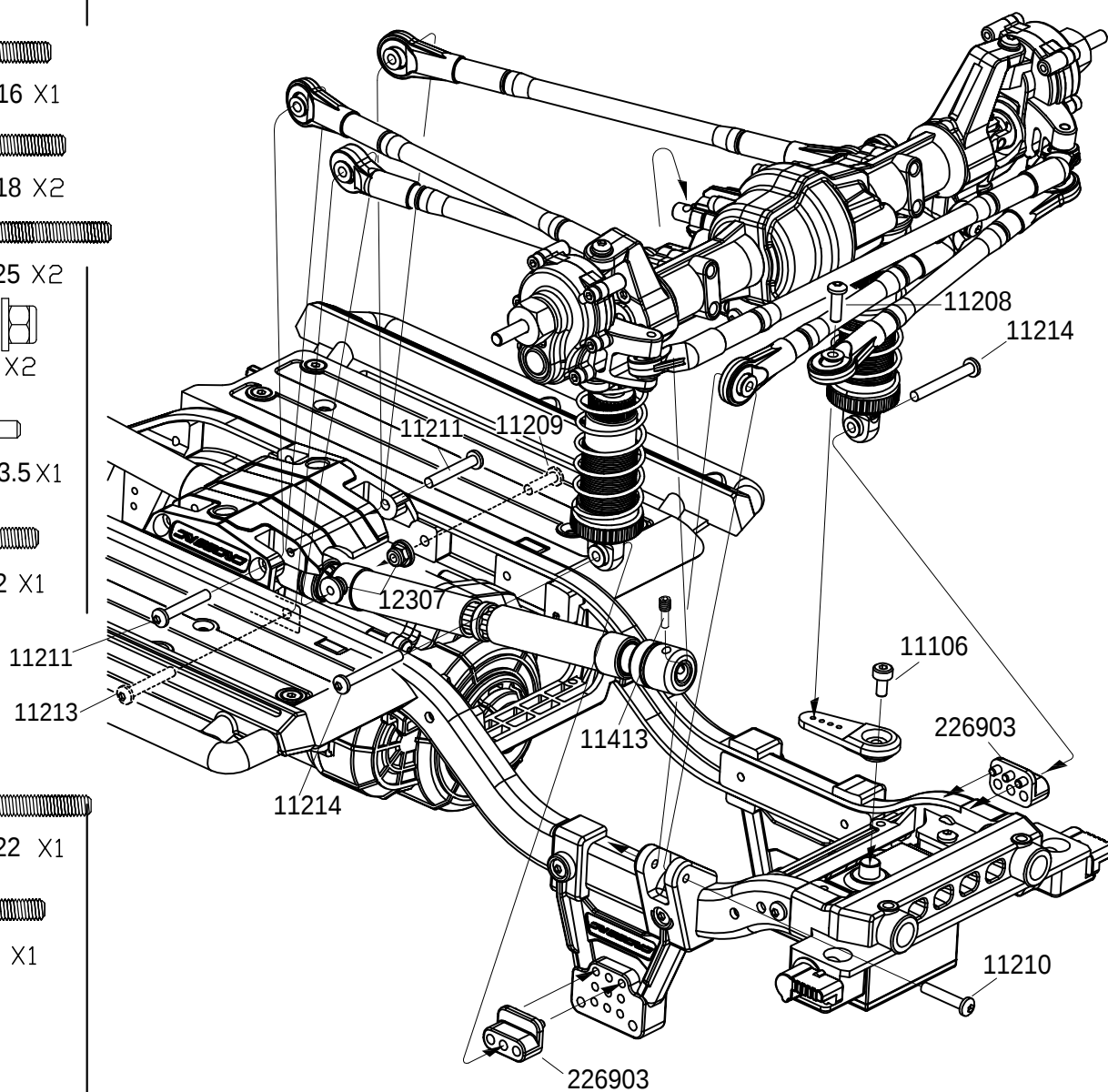
BAG(A)

- 11108  M3x12 X24
 12203   M3 X24



BAG(BB)

- 11106 
M3x8 X1
- 11210 
M3x16 X1
- 11211 
M3x18 X2
- 11214 
M3x25 X2
- 12307 
M3 X2
- 11413 
M4x13.5 X1
- 11208 
M3x12 X1
- 11213 
M3x22 X1
- 11209 
M3x14 X1



BAG(BB)

11211 

M3x18 X2

11213 

M3x22 X2

11214 

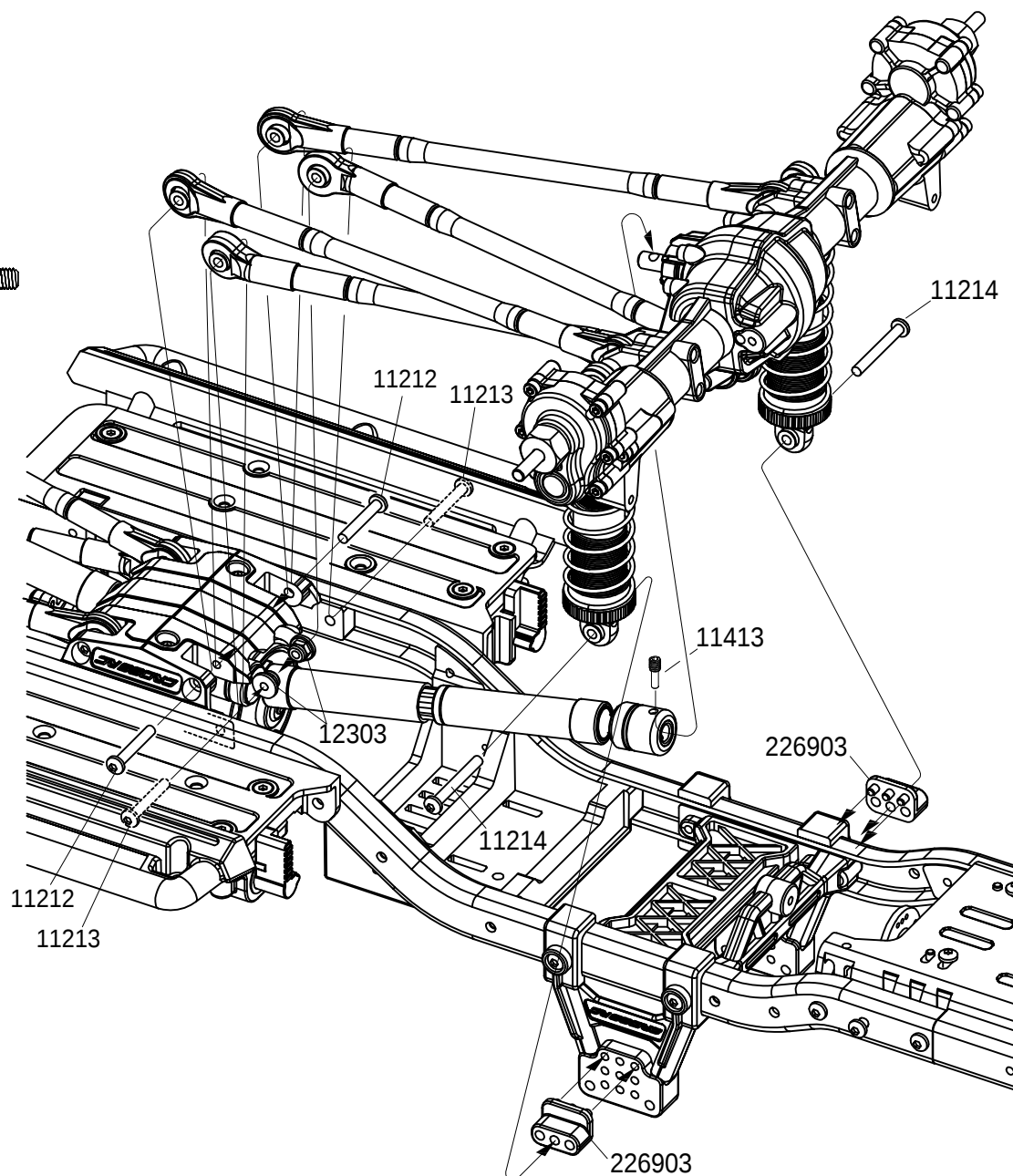
M3x25 X2

12303 

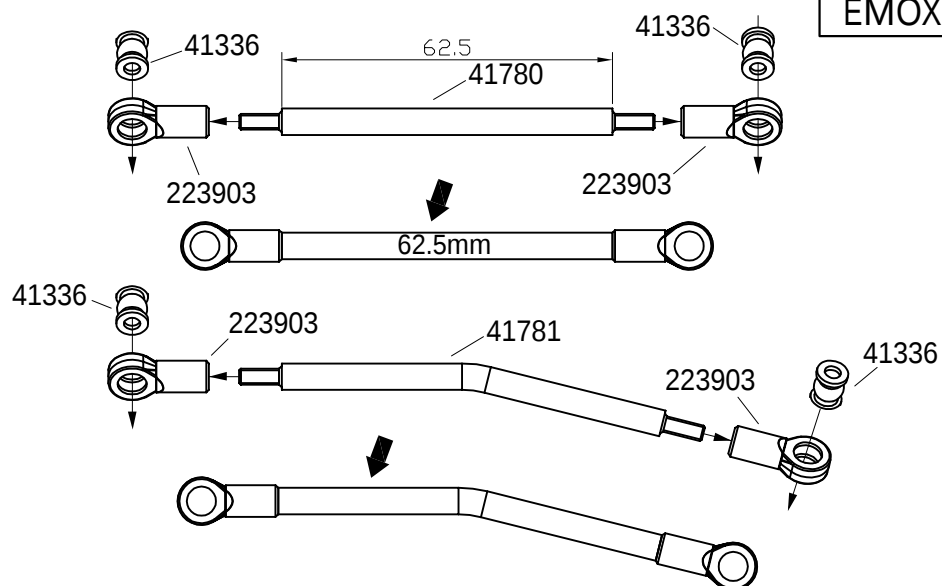
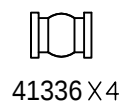
M3 X2

11413 

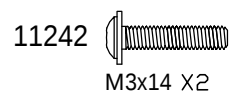
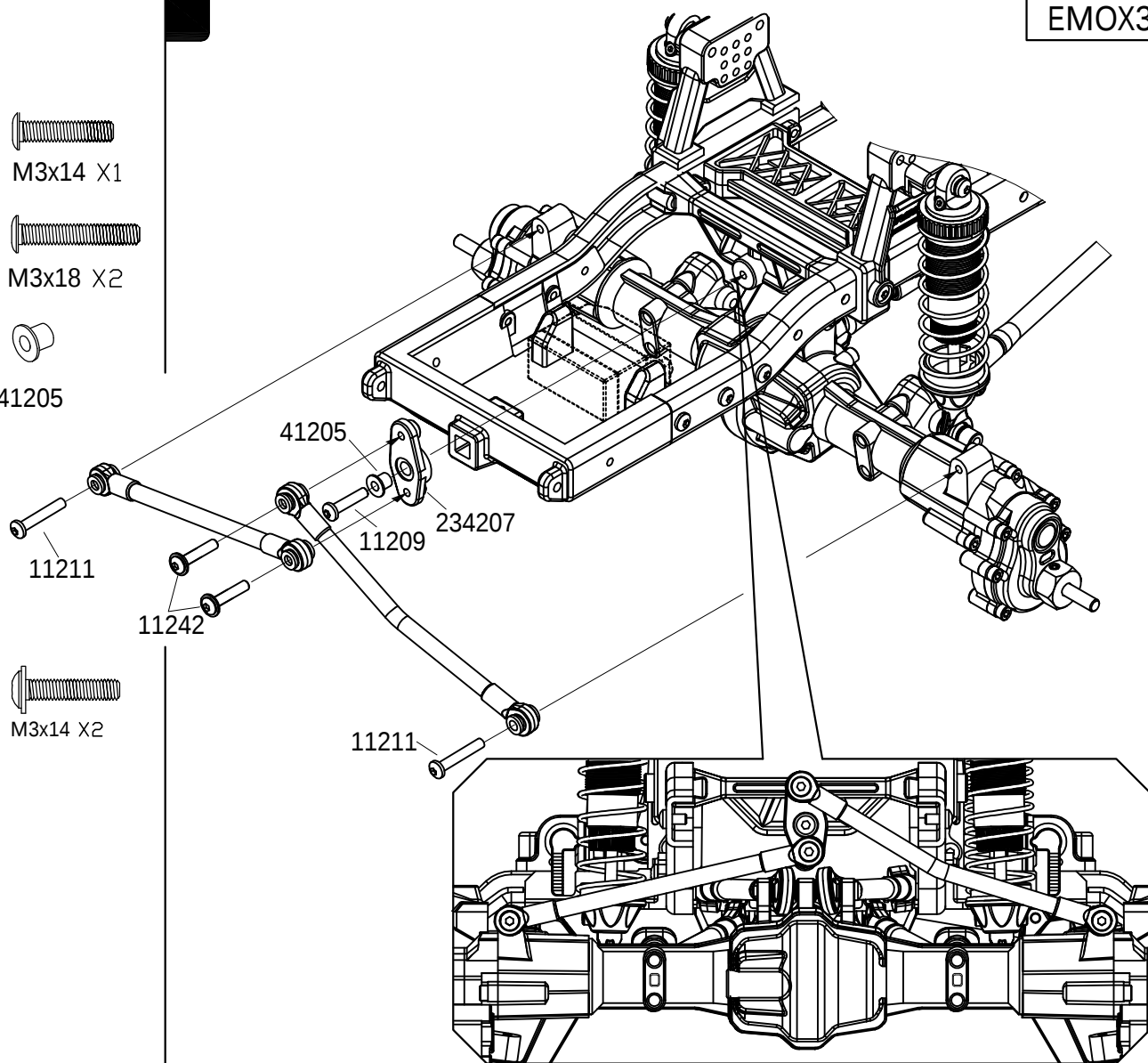
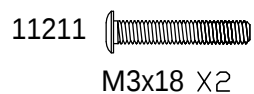
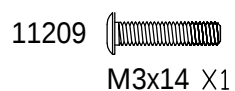
M4x13.5 X1



EMOX3



EMOX3



BAG(BB)

11206 
M3x8 X10

BAG(AA)

11227 
M2.5x8 X2

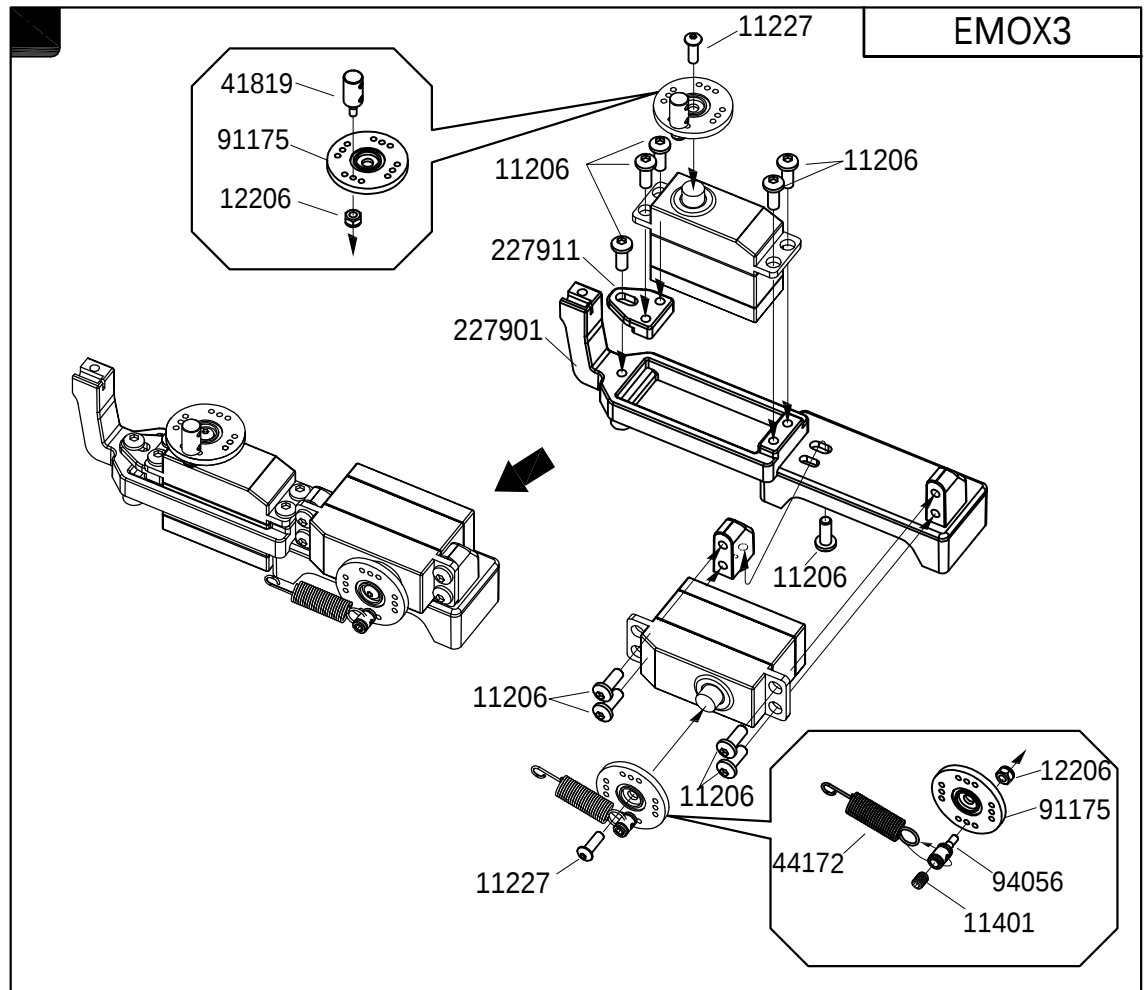
12206 
M2 X2

11401 
M3x4 X1


44172 X1


41819 X1

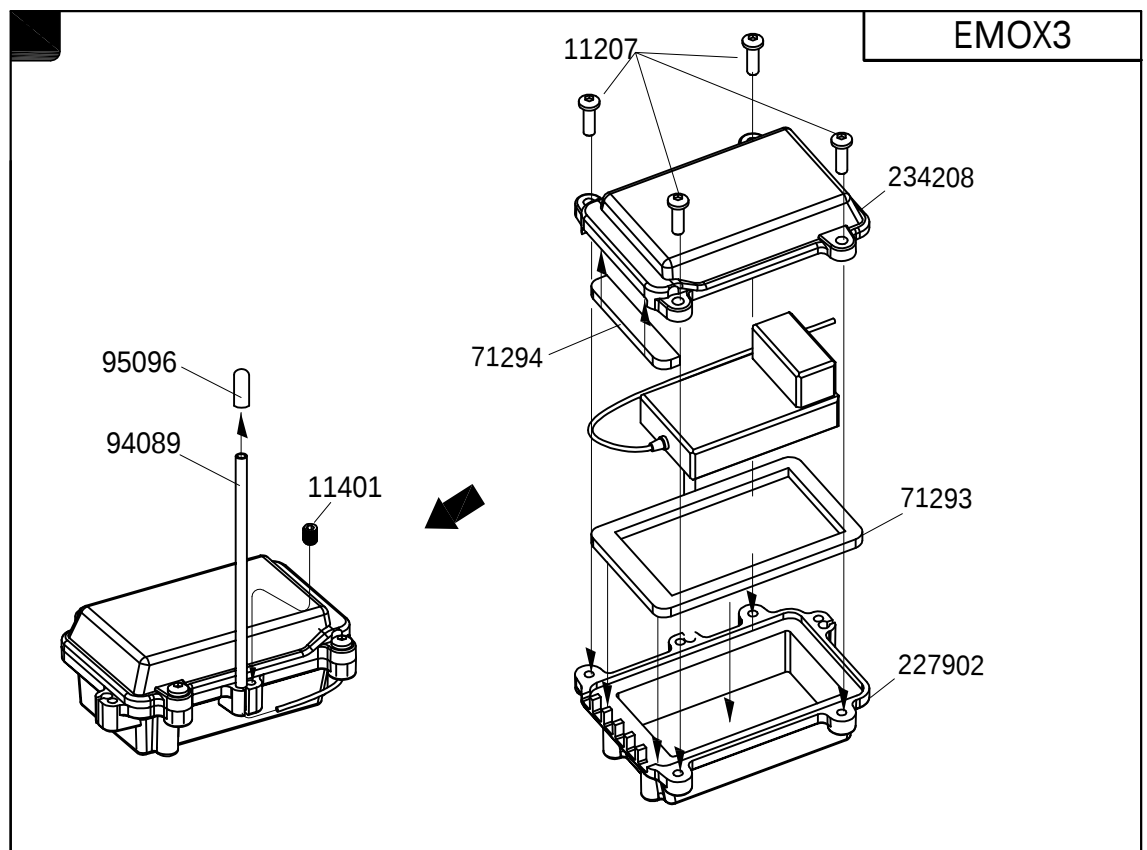

94056 X1



BAG(BB)

11401 
M3x4 X1

11207 
M3x10 X4



BAG(BB)

11206  M3x8 X1

14102  $\varnothing 3 \times \varnothing 7 \times 0.5$ X1

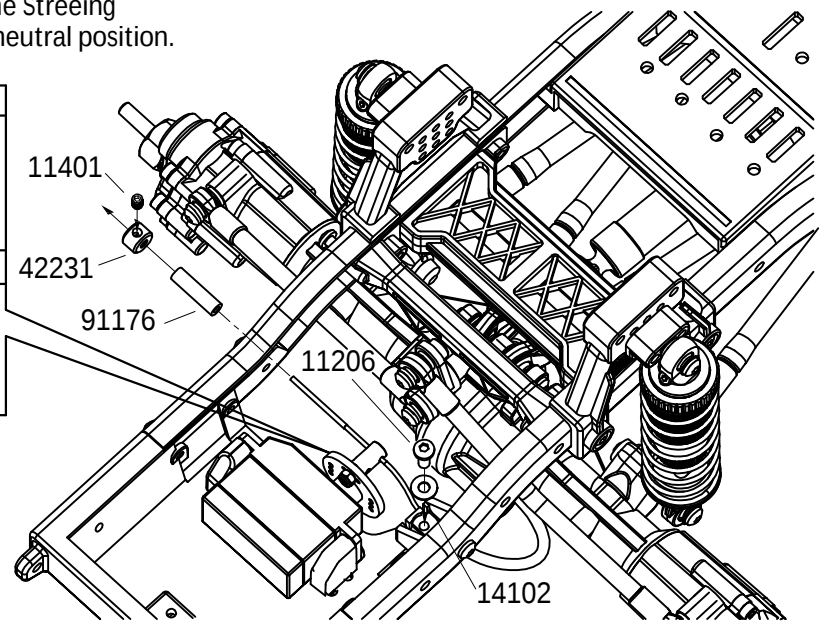
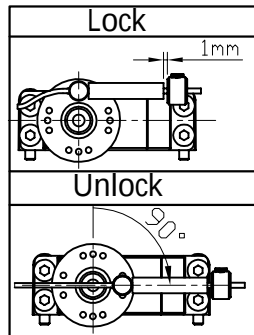
BAG(AA)

11401  M3x4 X1

 42231 X1

 91176 X1

Turn on the Transmitter then Receiver and set the Steering Servo Trim at the neutral position.

EMOX3**BAG(BB)**

11206  M3x8 X1

14102  $\varnothing 3 \times \varnothing 7 \times 0.5$ X1

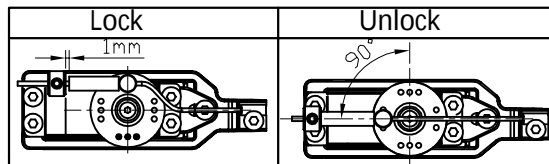
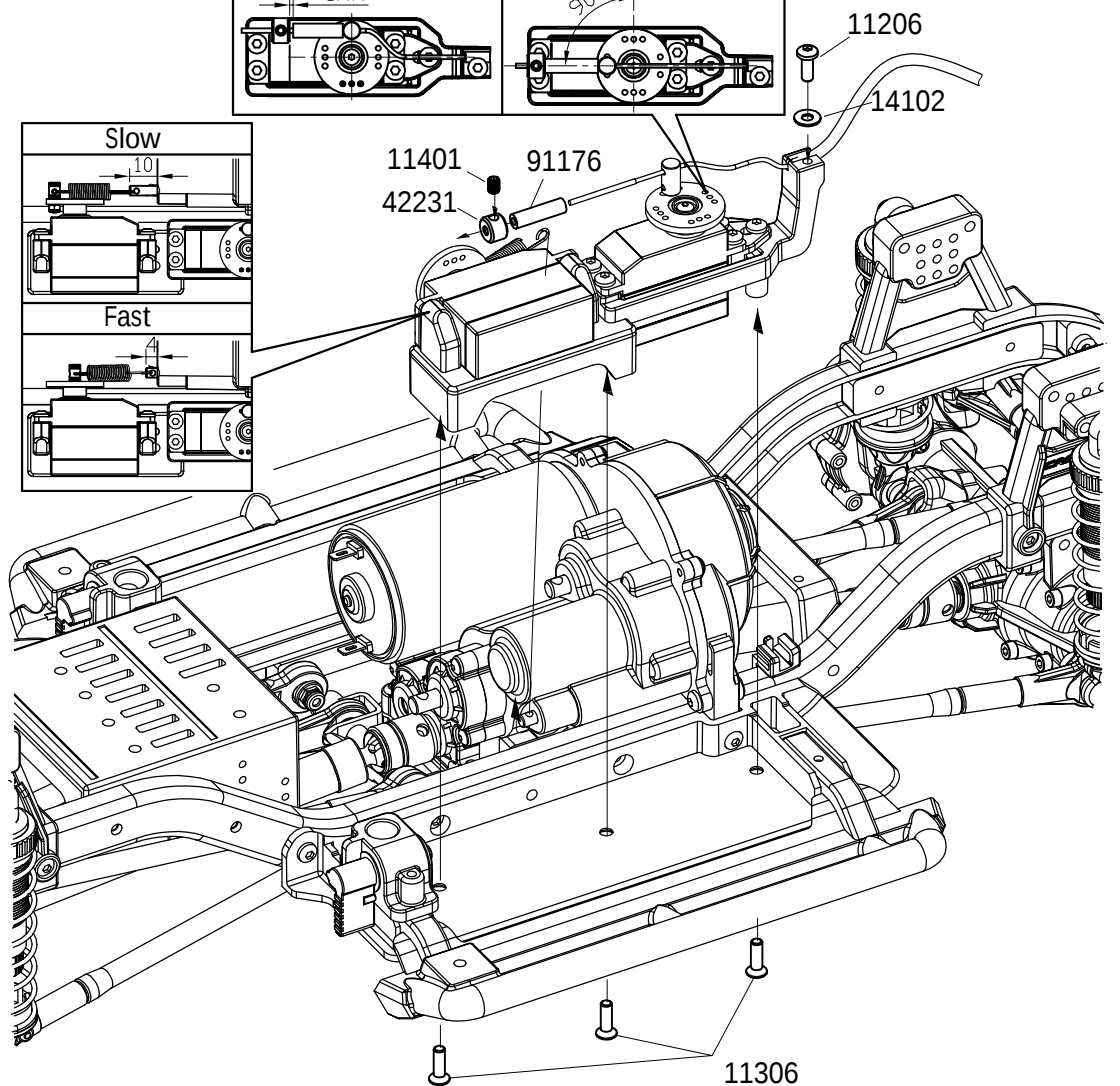
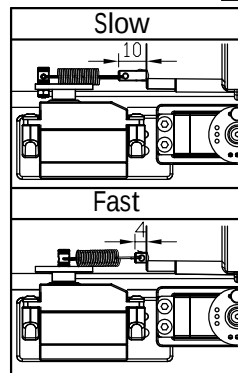
11306  M3x10 X3

BAG(AA)

11401  M3x4 X1

 42231 X1

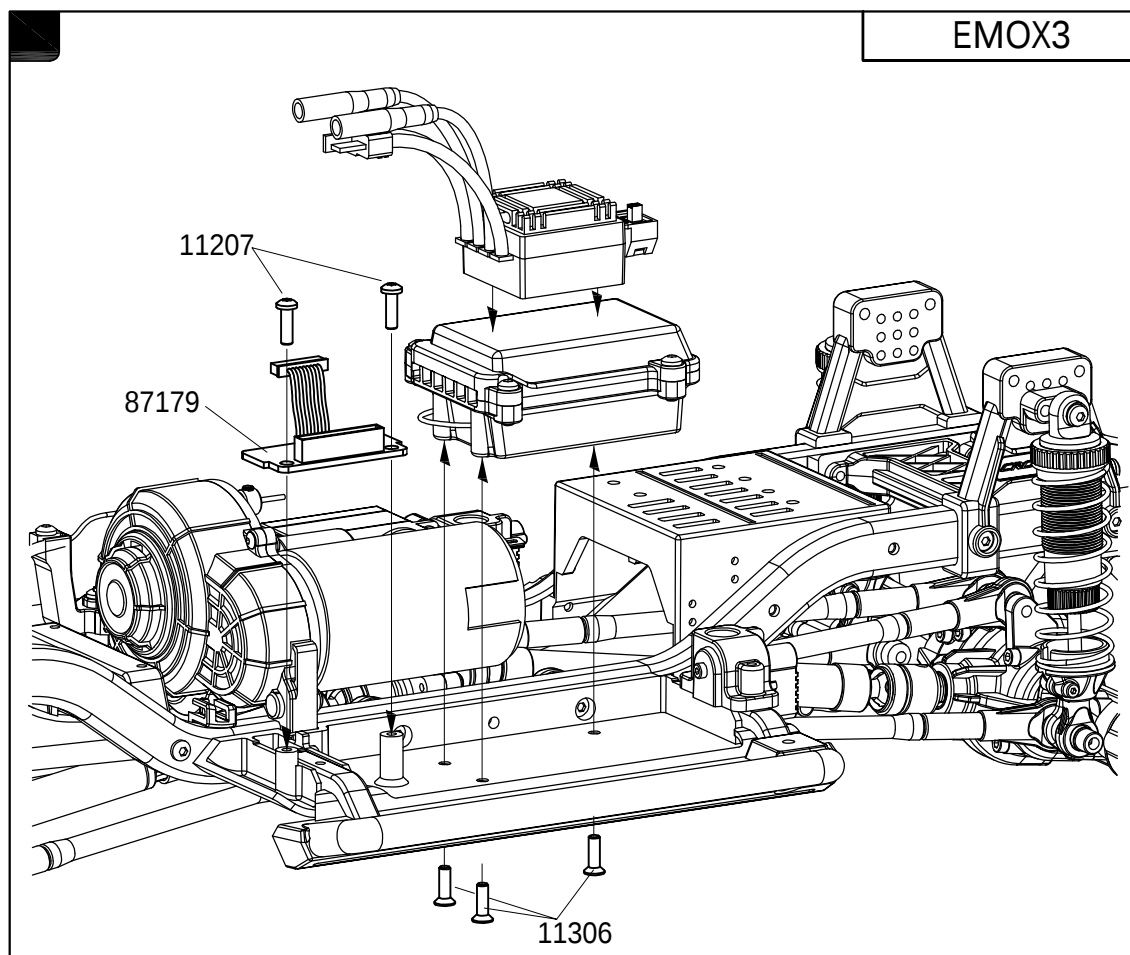
 91176 X1

**EMOX3**

EMOX3

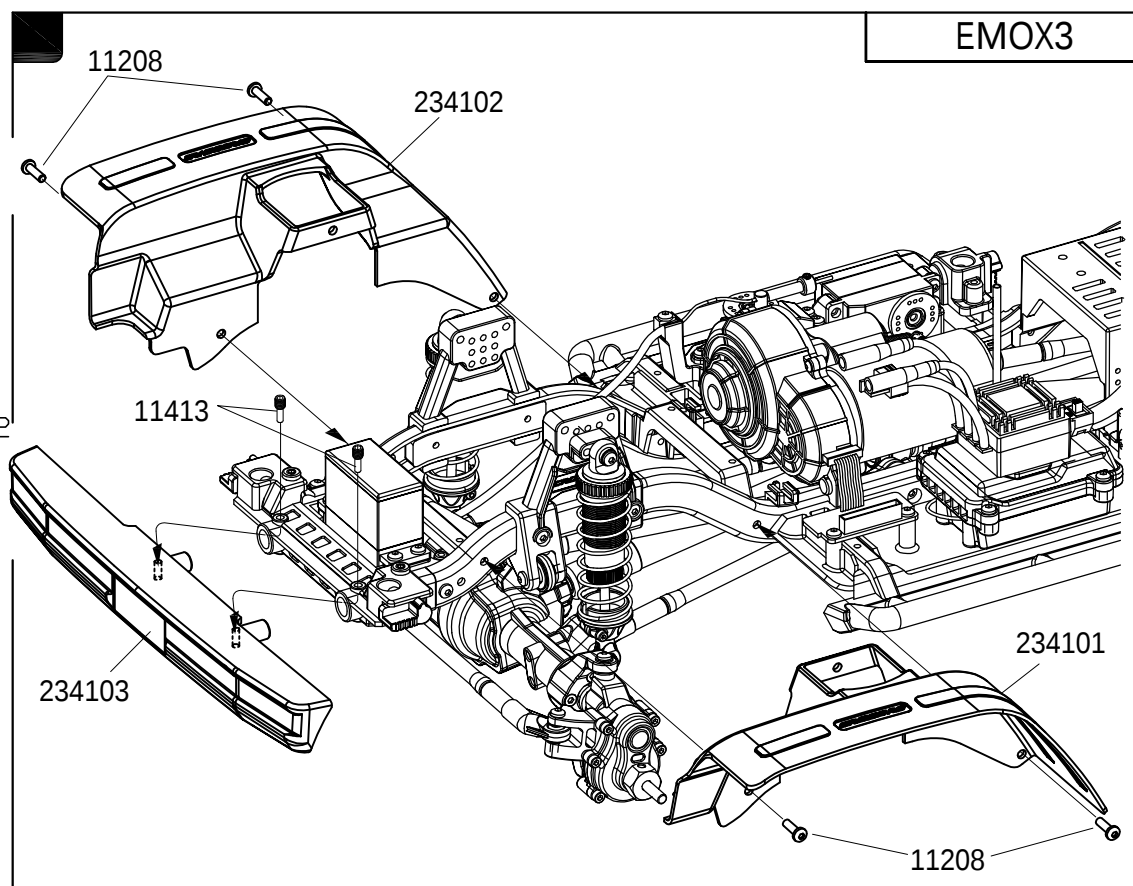
BAG(BB)

- 11207 
M3x10 X2
- 11306 
M3x10 X3



EMOX3

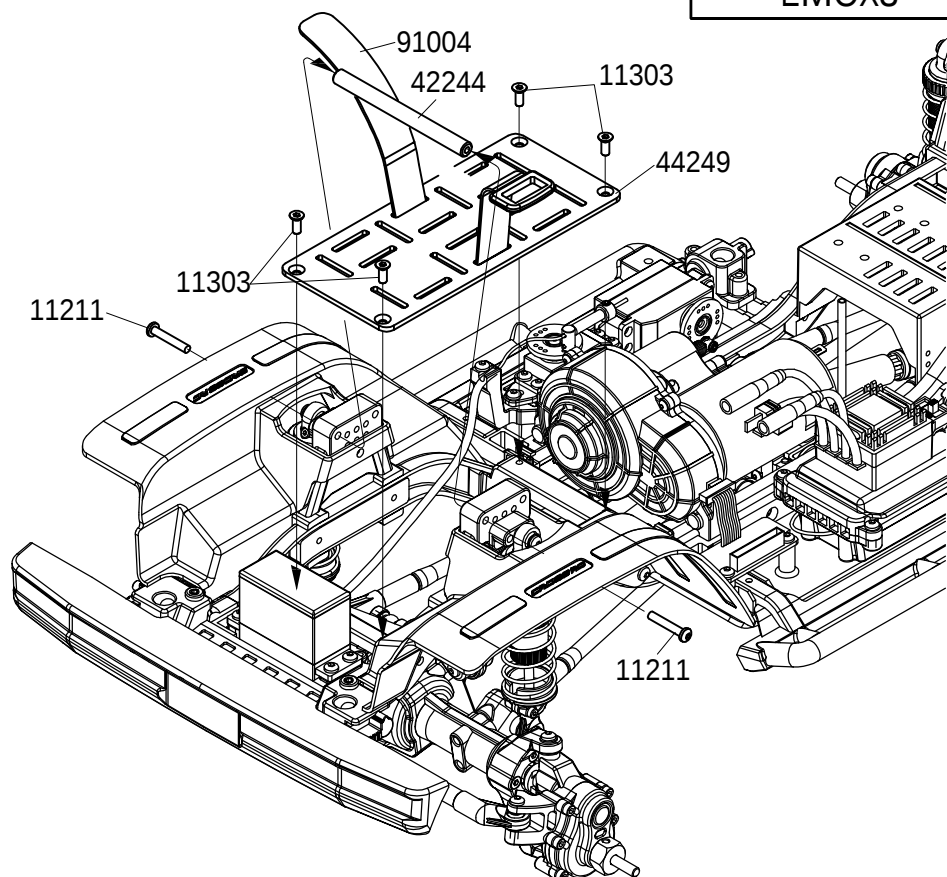
- 11208 
M3x12 X4
- 11413 
M4x13.5 X2



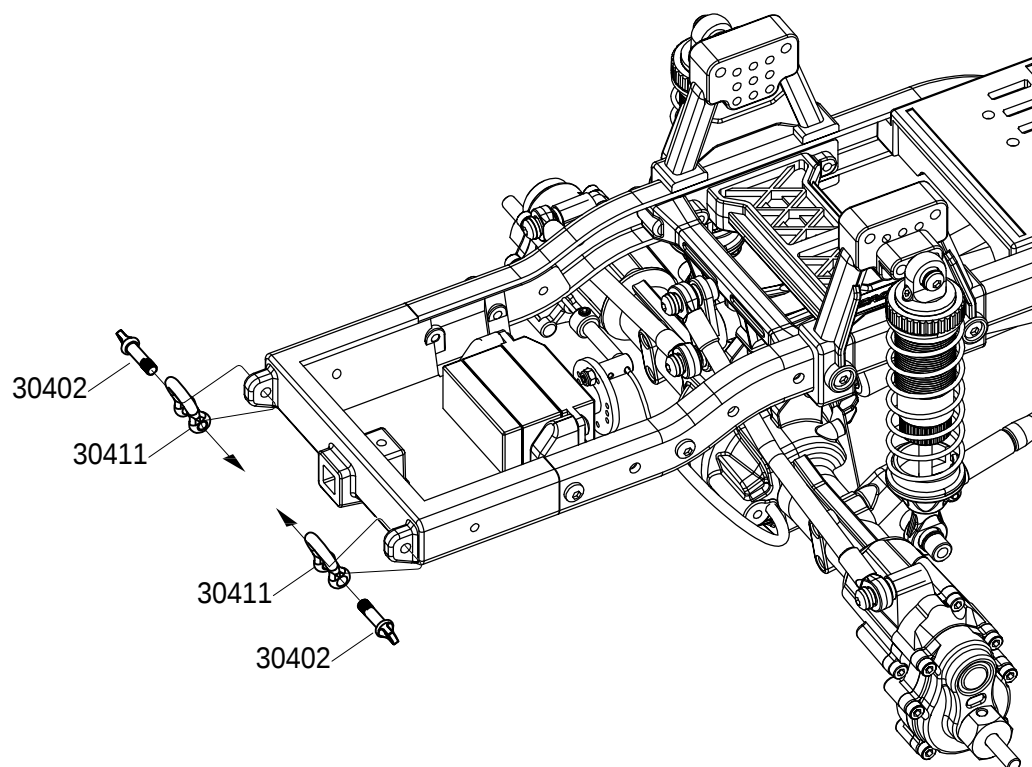
EMOX3

BAG(BB)

- 11303  M3x8 X4
- 11211  M3x18 X2

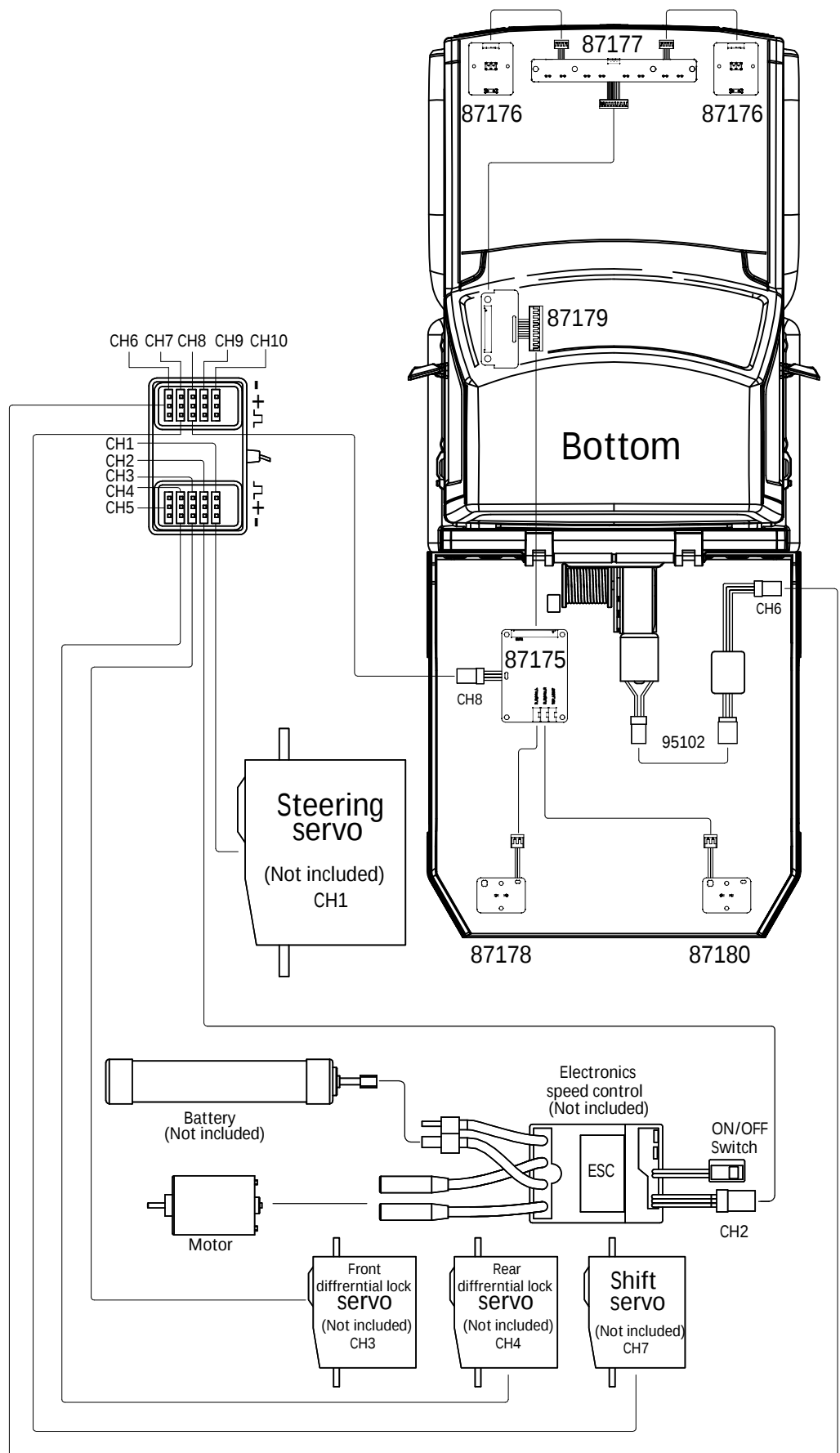


EMOX3



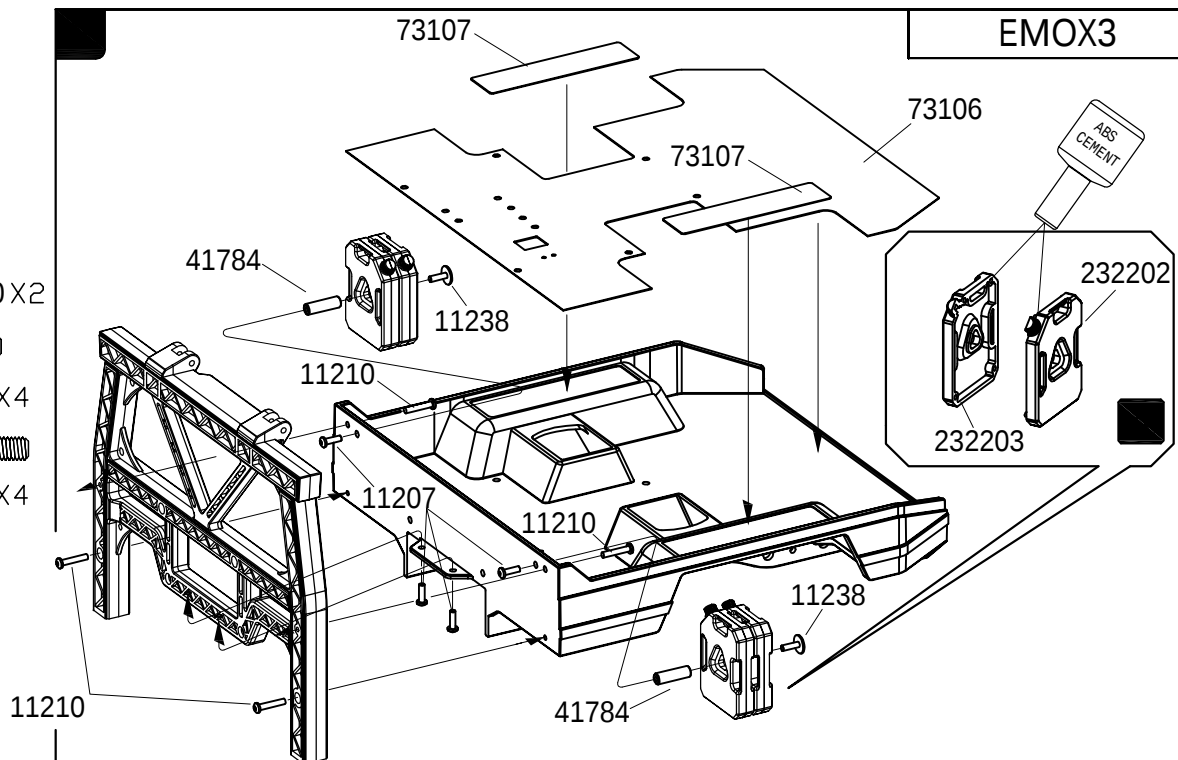
EMOX3

BAG(Y)



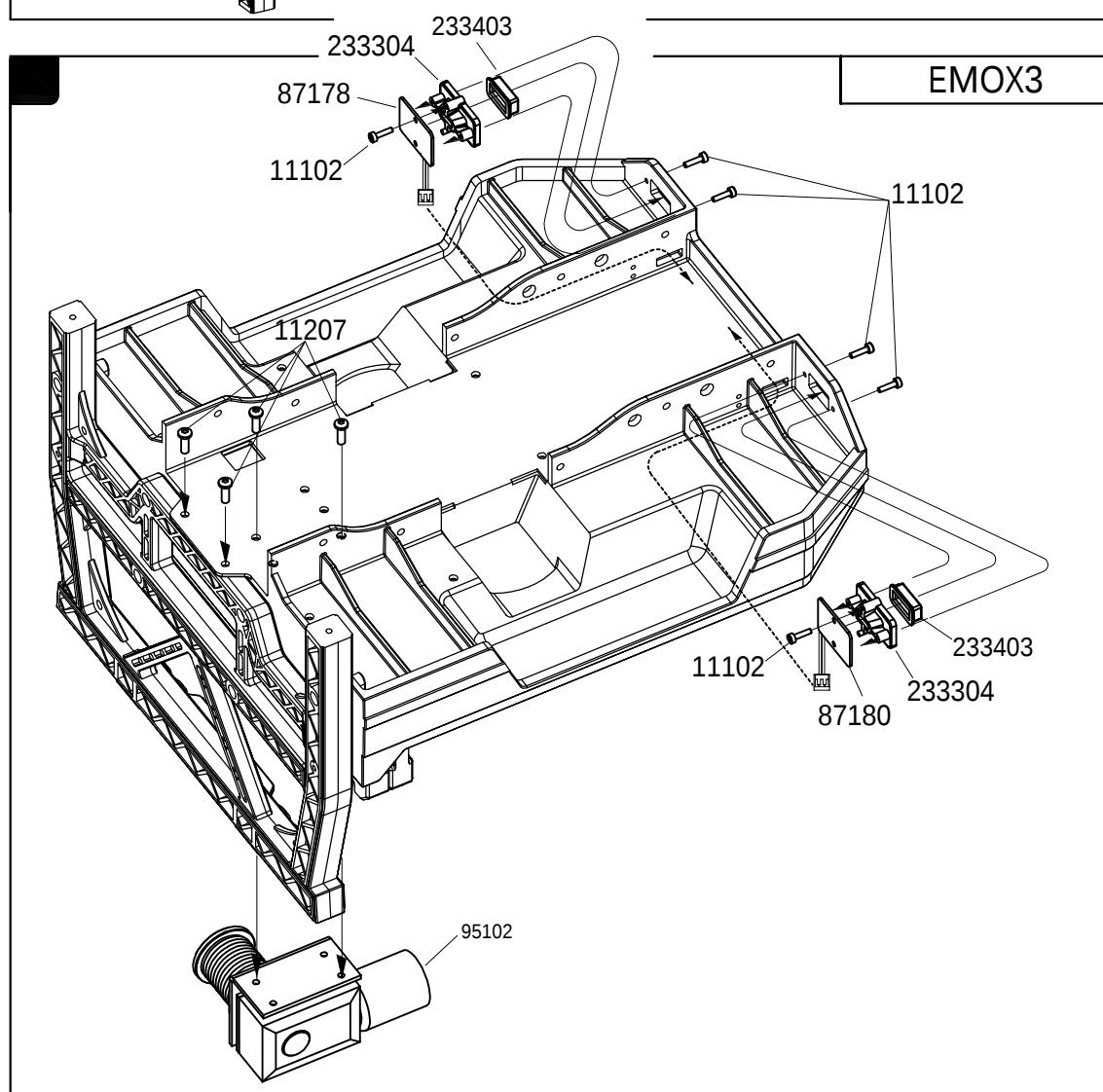
BAG(BB)

- 11238  M3x8x10 X2
- 11207  M3x10 X4
- 11210  M3x16 X4



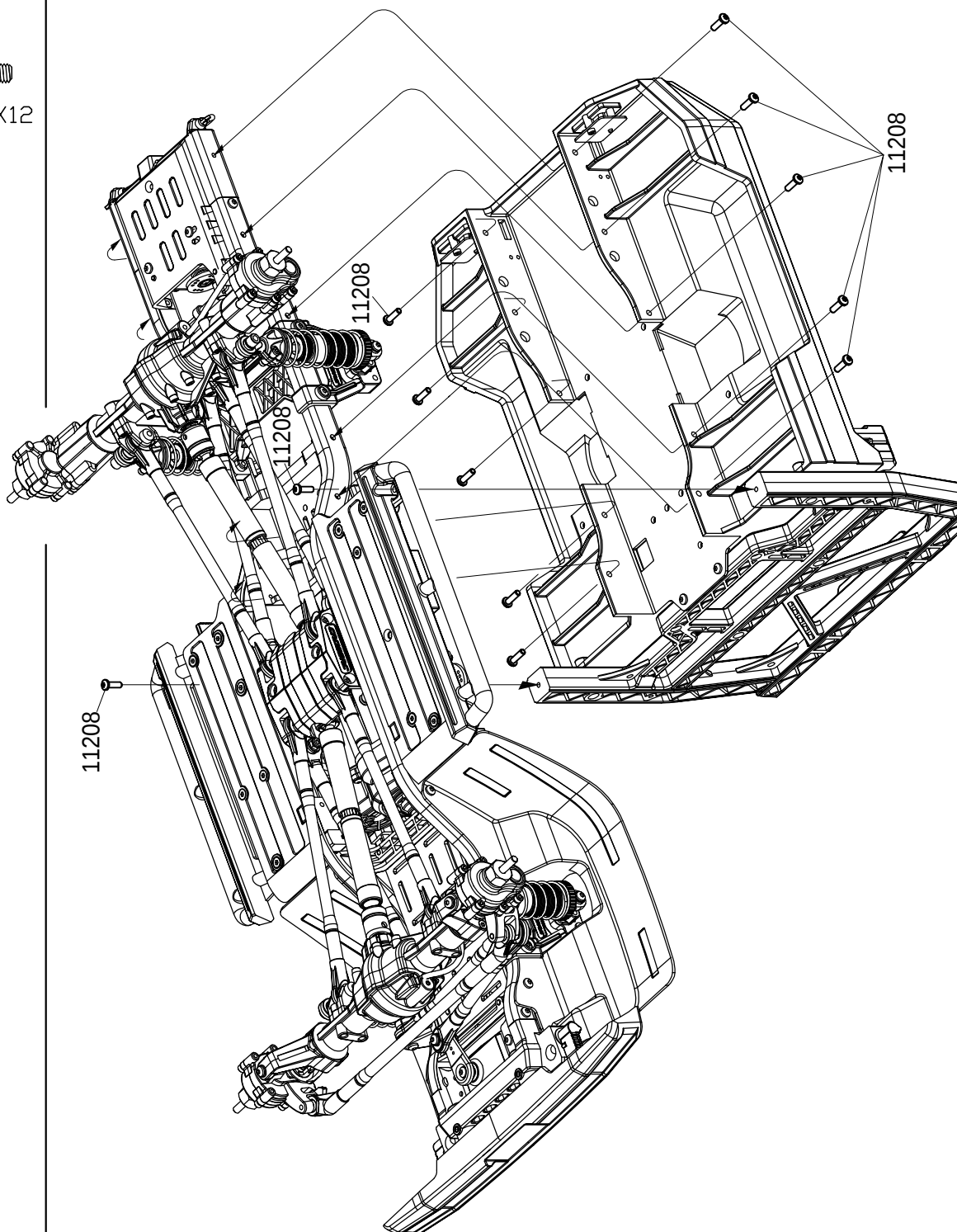
EMOX3

- 11207  M3x10 X4
- 11102  M2x6 X6



BAG(BB)

11208 
M3x12 X12

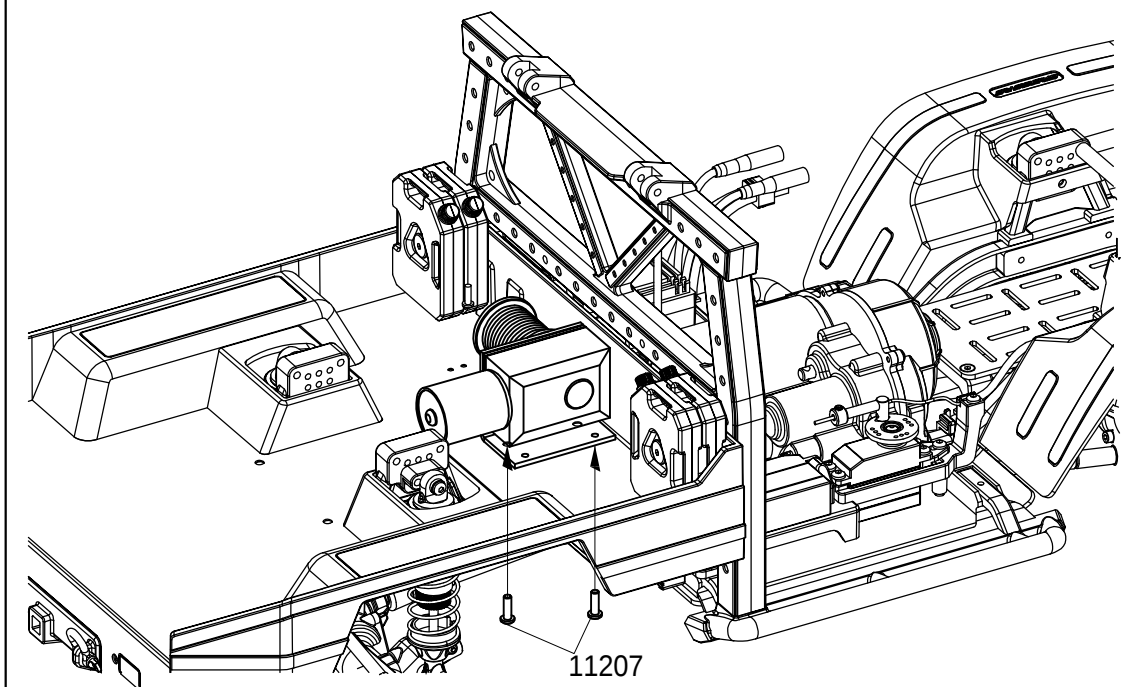


EMOX3

BAG(BB)

95102

11207 
M3x10 X2

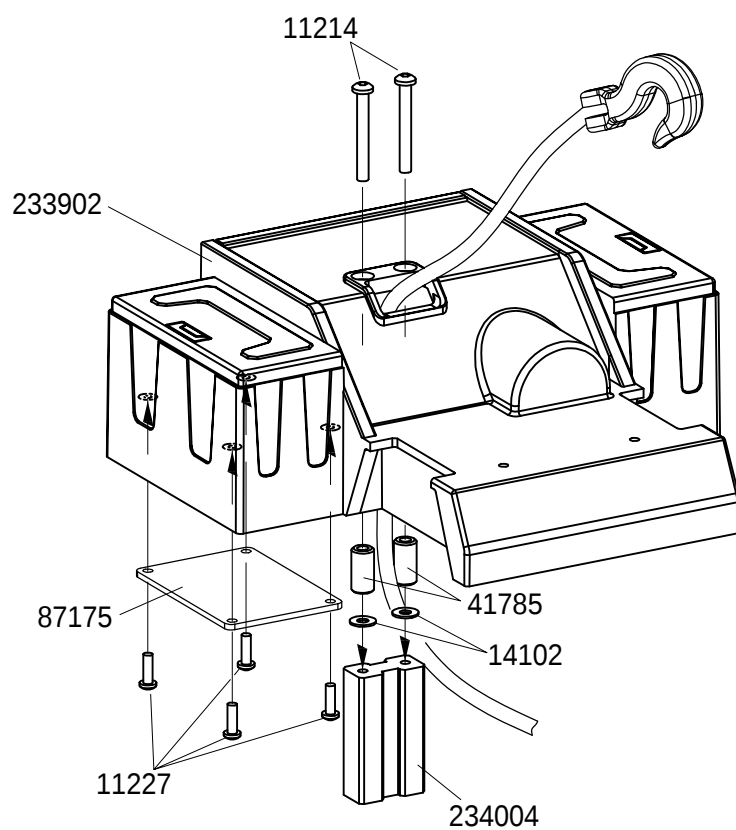


EMOX3

11227 
M2.5x8 X4

11214 
M3x25 X2

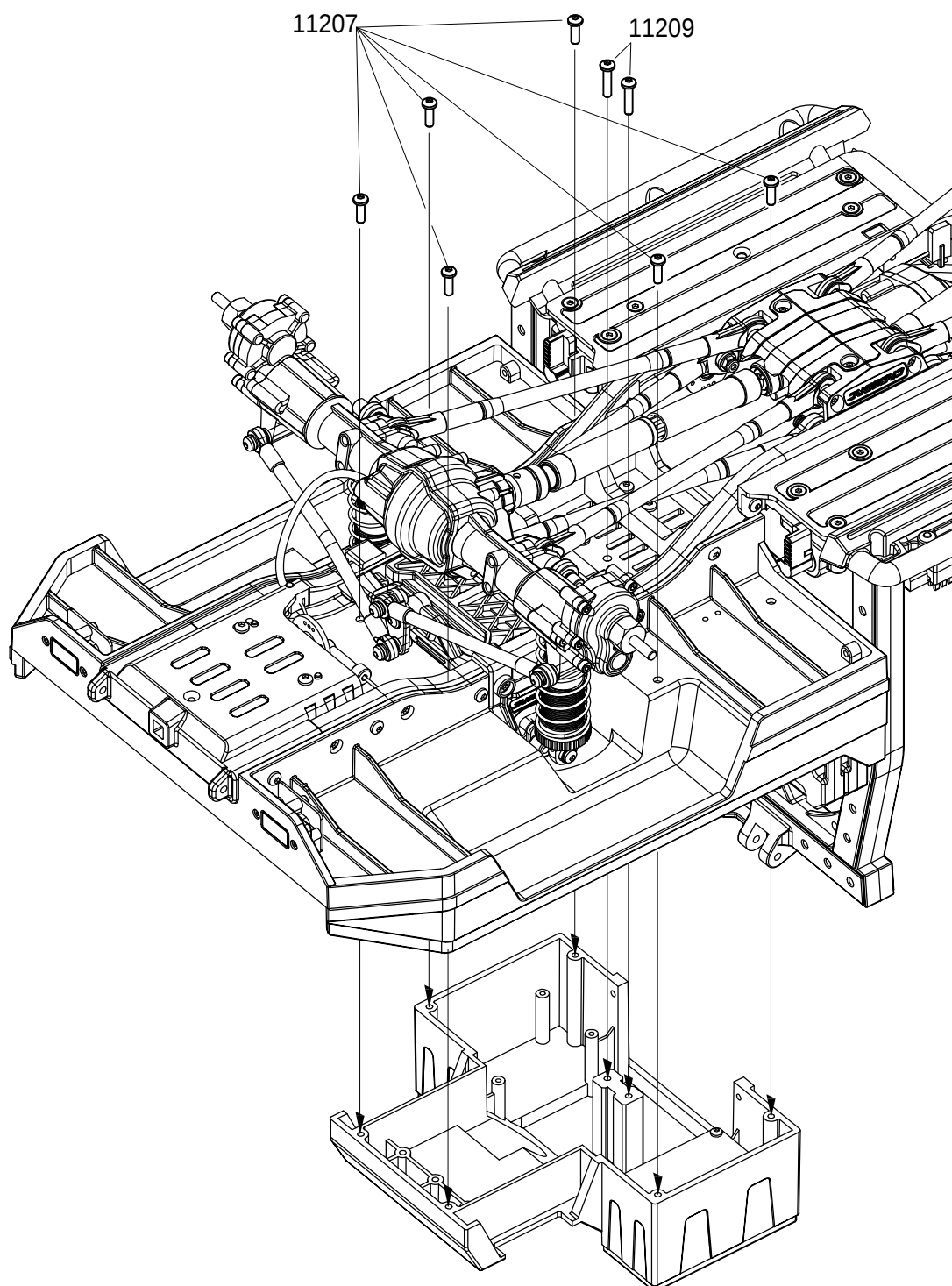
14102 
Ø3xØ7x0.5X2



BAG(BB)

11207 
M3x10 X6

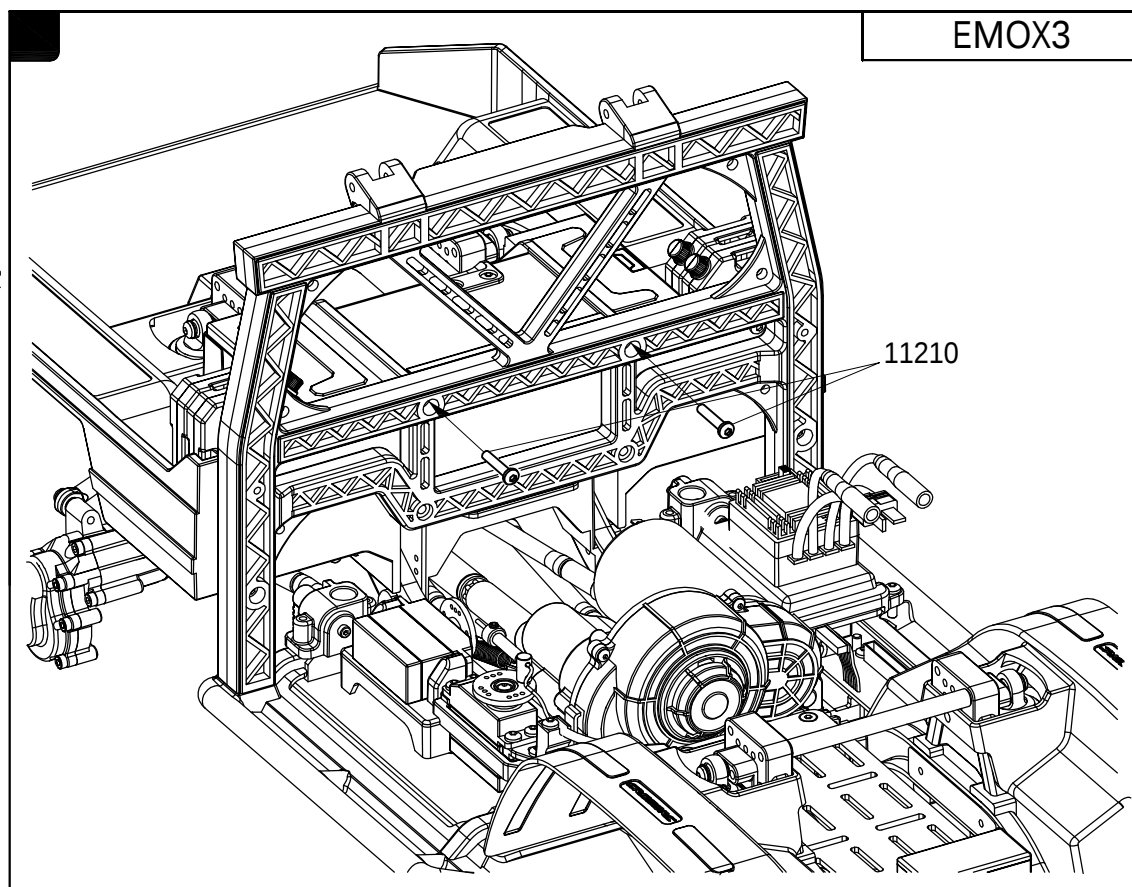
11209 
M3x14 X2



BAG(BB)

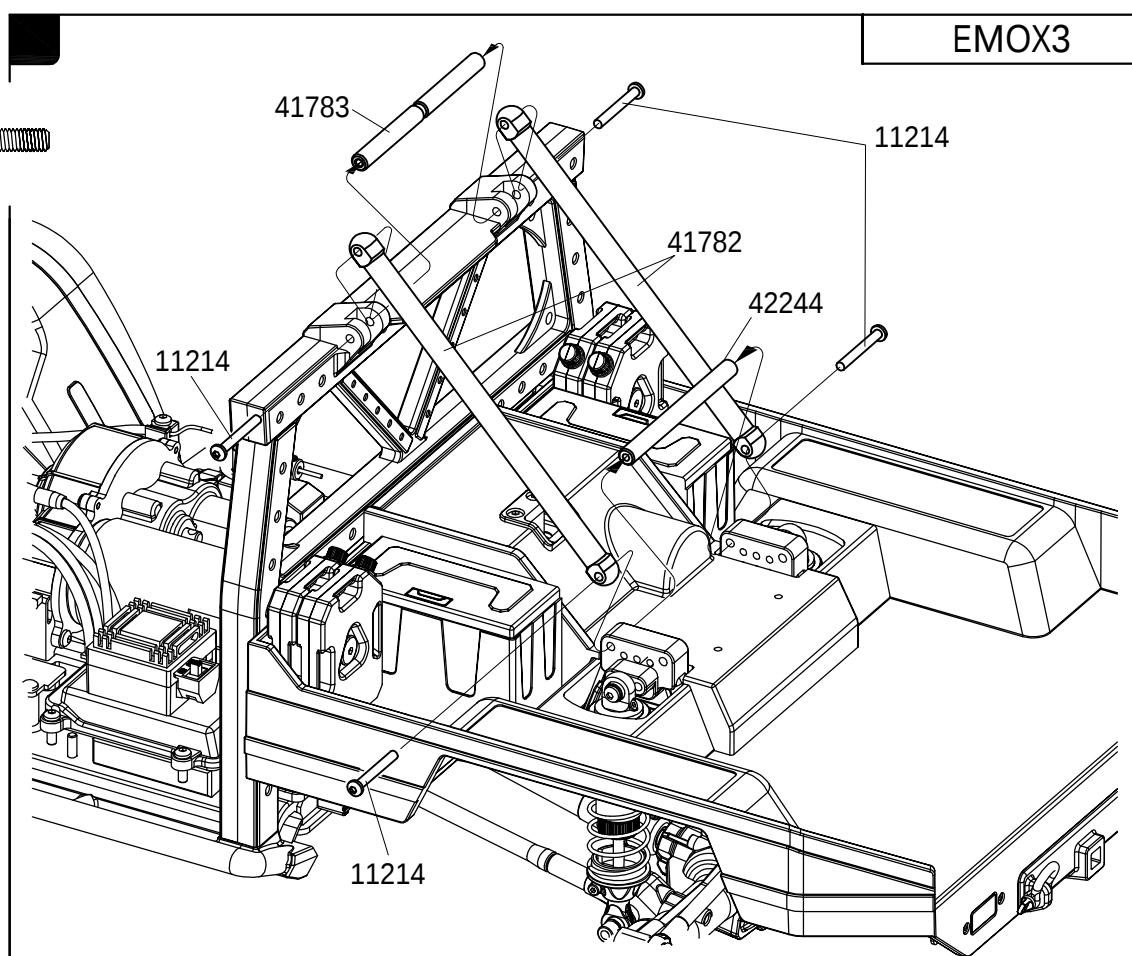
EMOX3

11210 
M3x16 X2



EMOX3

11214 
M3x25 X4



EMOX3

BAG(BB)

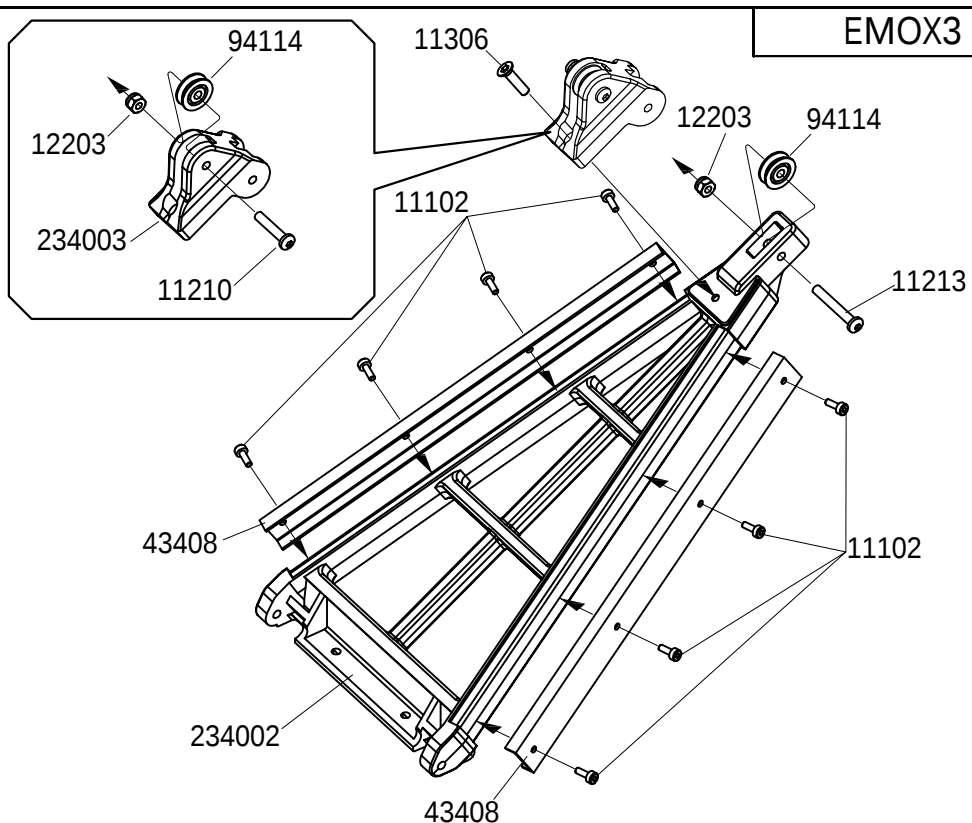
11210  M3x16 X1

12203  M3 X2

11306  M3x10 X1

11213  M3x22 X1

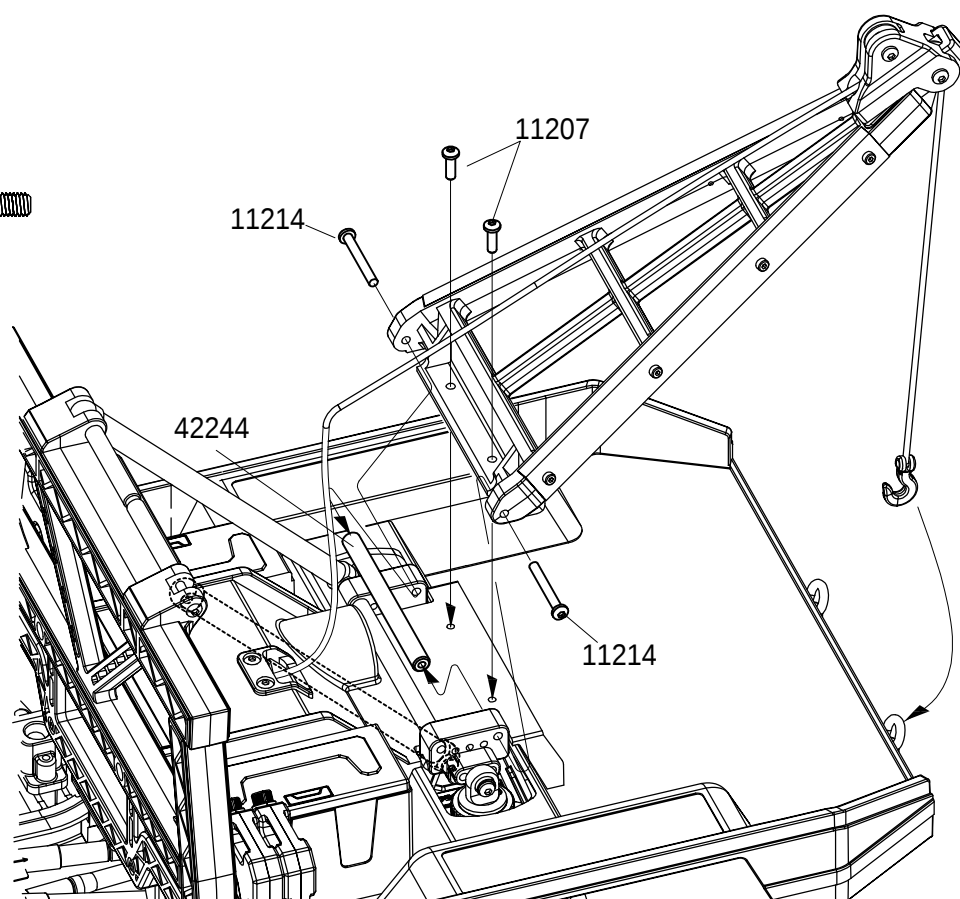
11102  M2x6 X8



EMOX3

11207  M3x10 X2

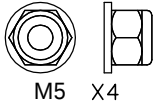
11214  M3x25 X2



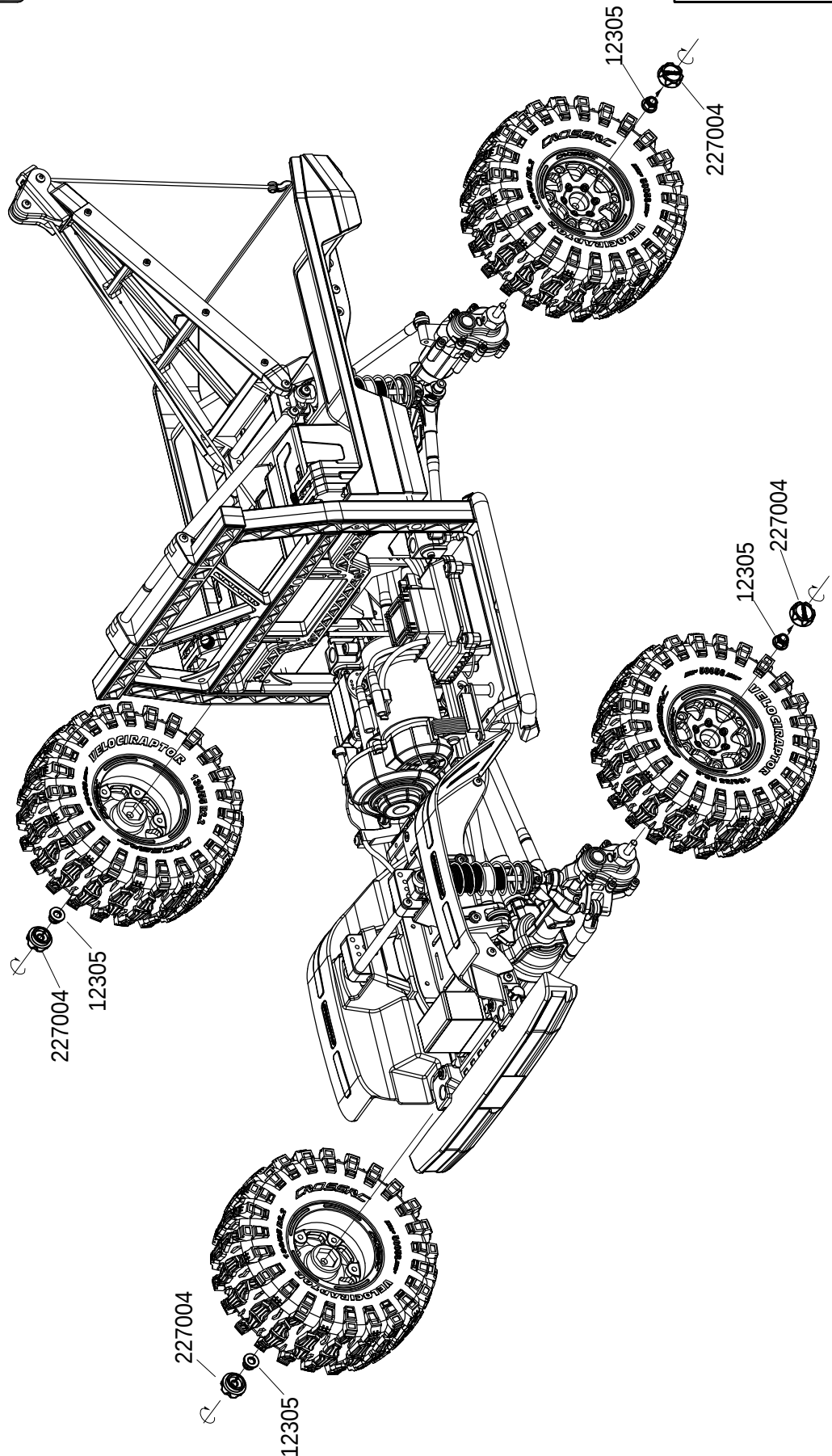
EMOX3

BAG(A)

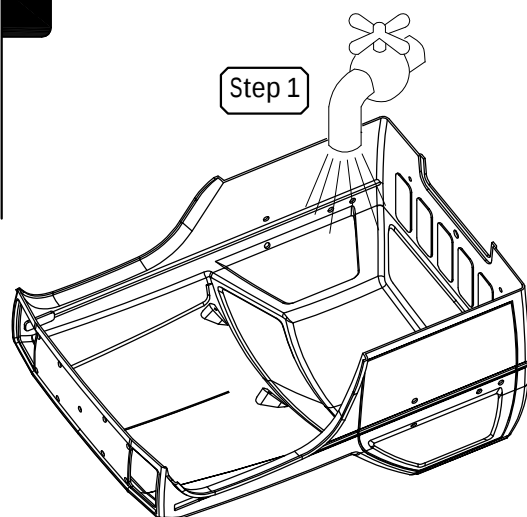
12305



M5 X4



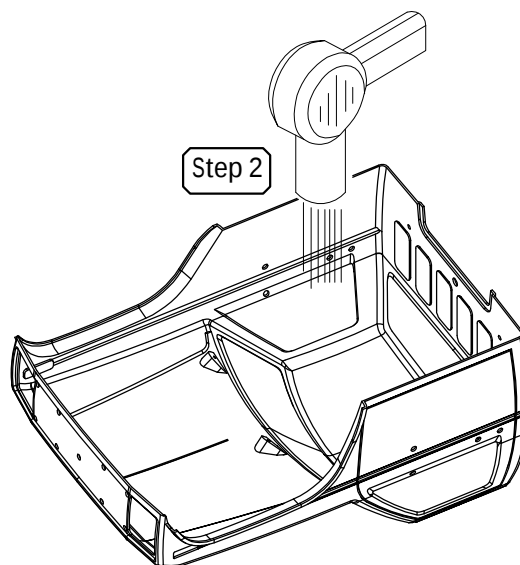
Step 1



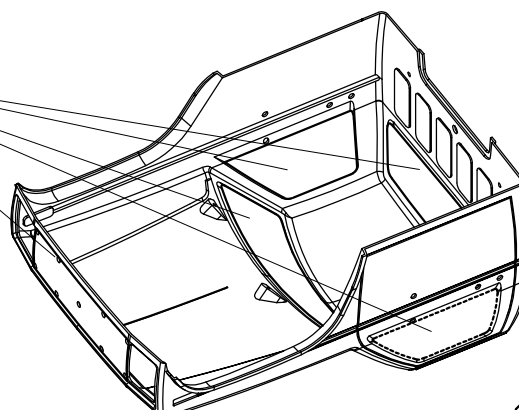
Wash the inside of the body shell with mild detergent, then rinse and dry thoroughly.

237001

Step 2

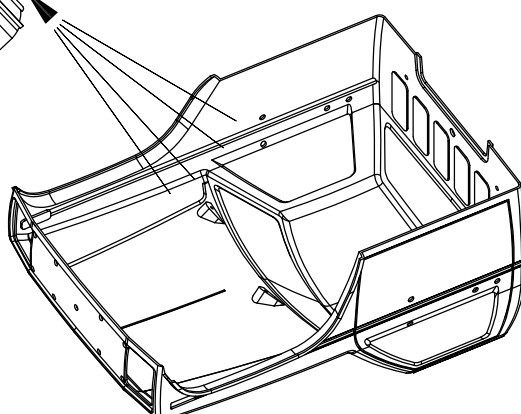
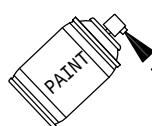


85278



Step 3

Mask the windows on the inside with masking tape.

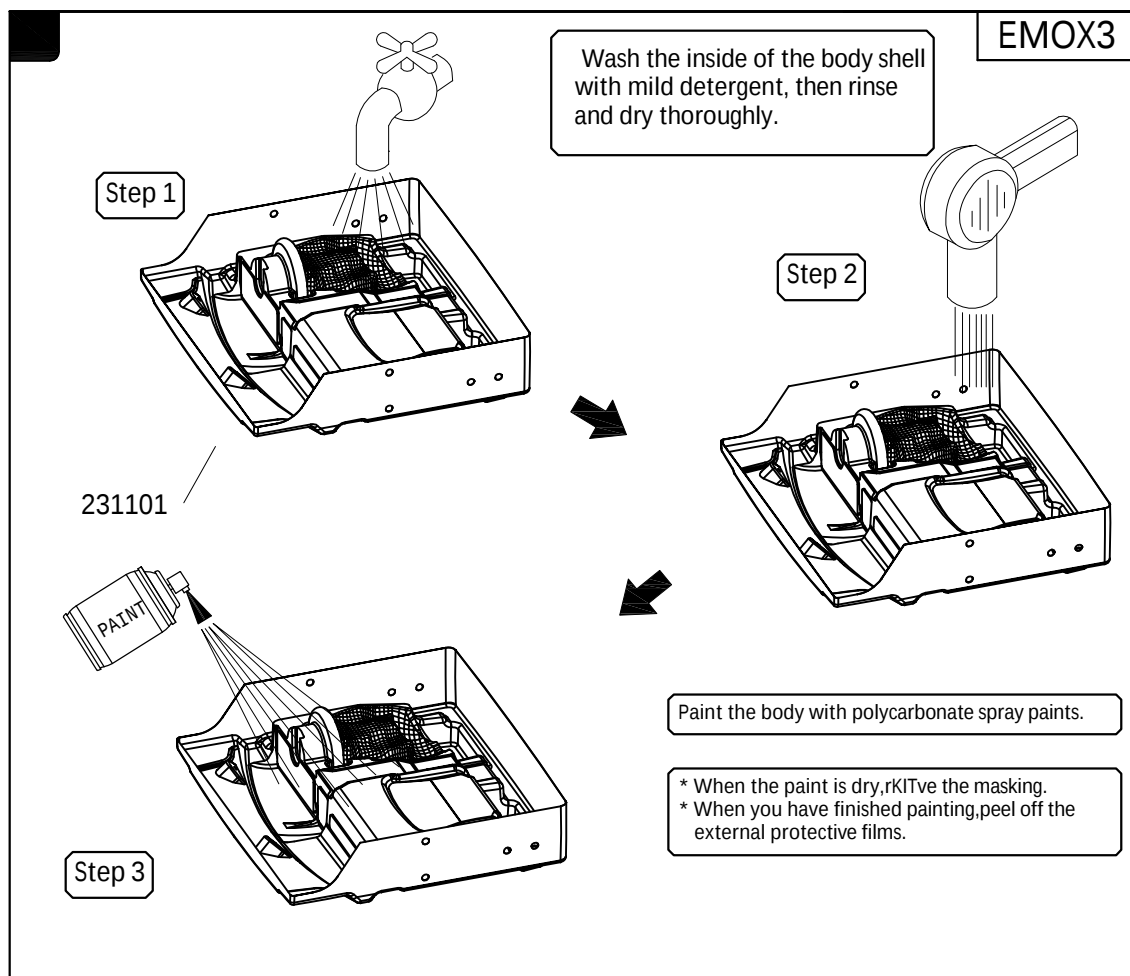


Step 4

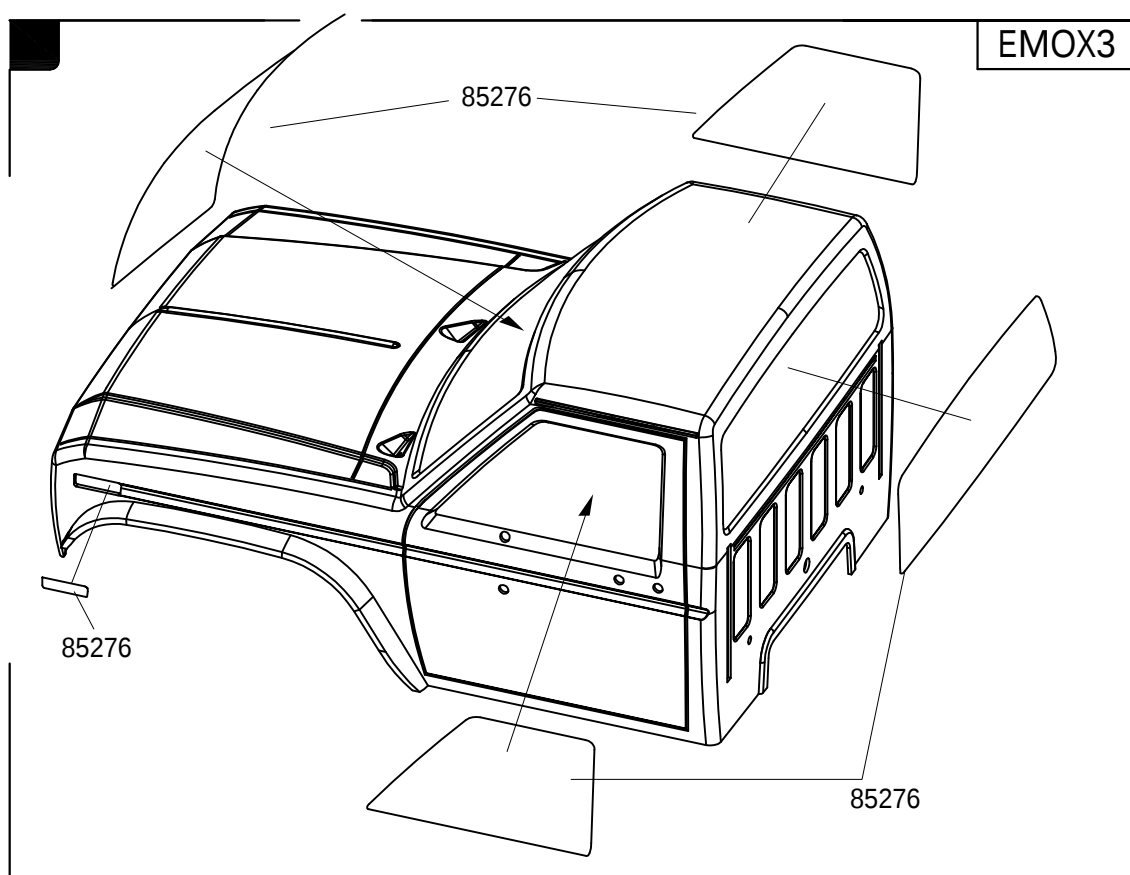
Paint the body with polycarbonate spray paints.

* When the paint is dry, remove the masking.
* When you have finished painting, peel off the external protective films.

EMOX3



EMOX3



BAG(J)

EMOX3

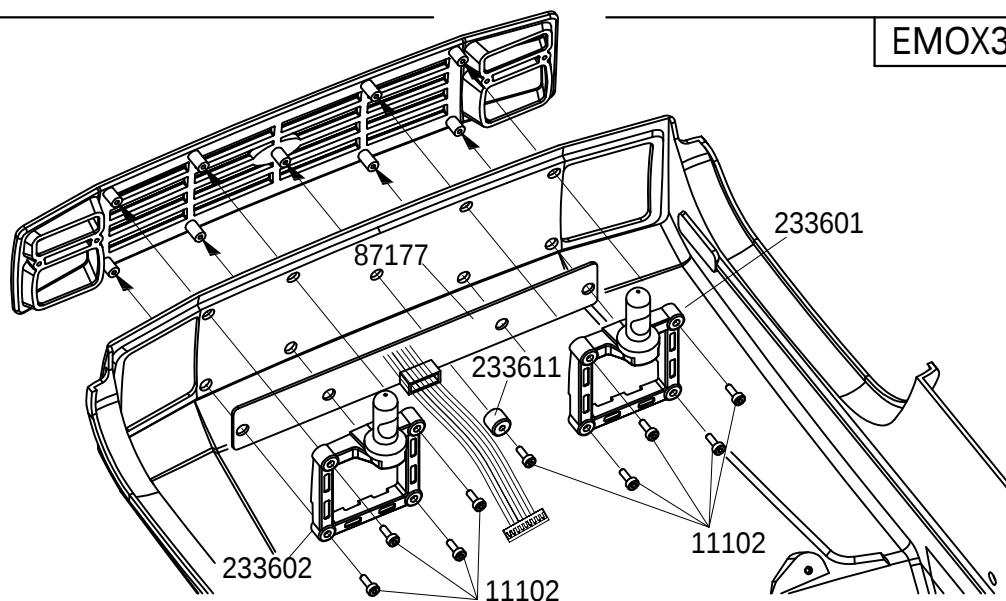
233301

42332

BAG(BB)

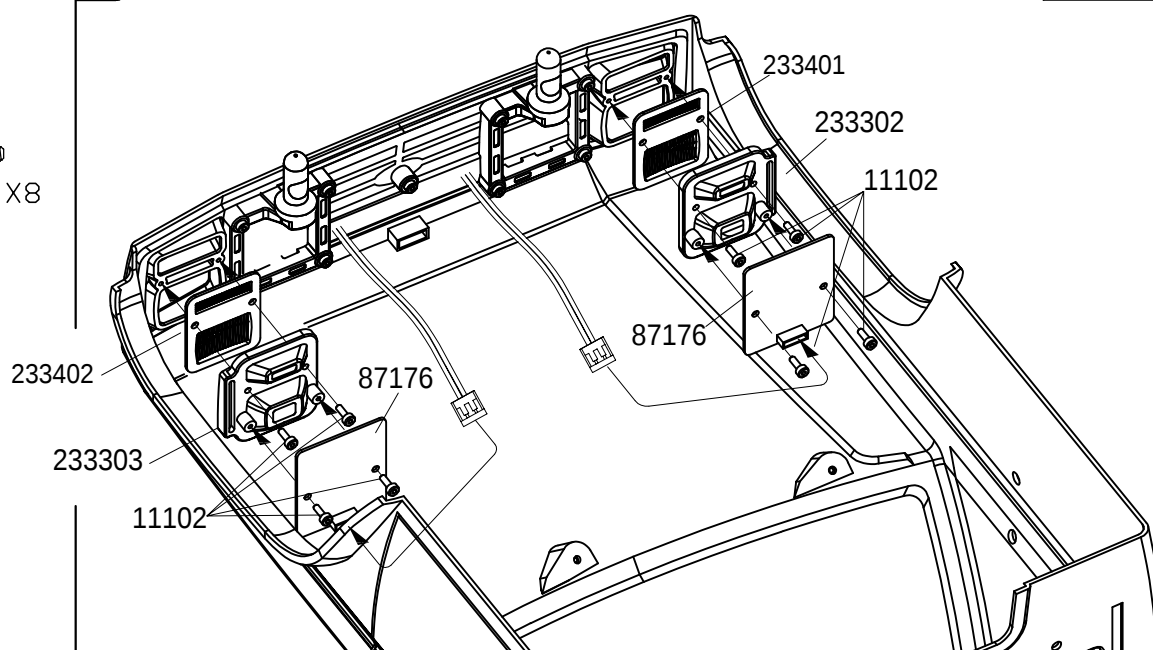
EMOX3

11102 
M2x6 X9



11102 
M2x6 X8

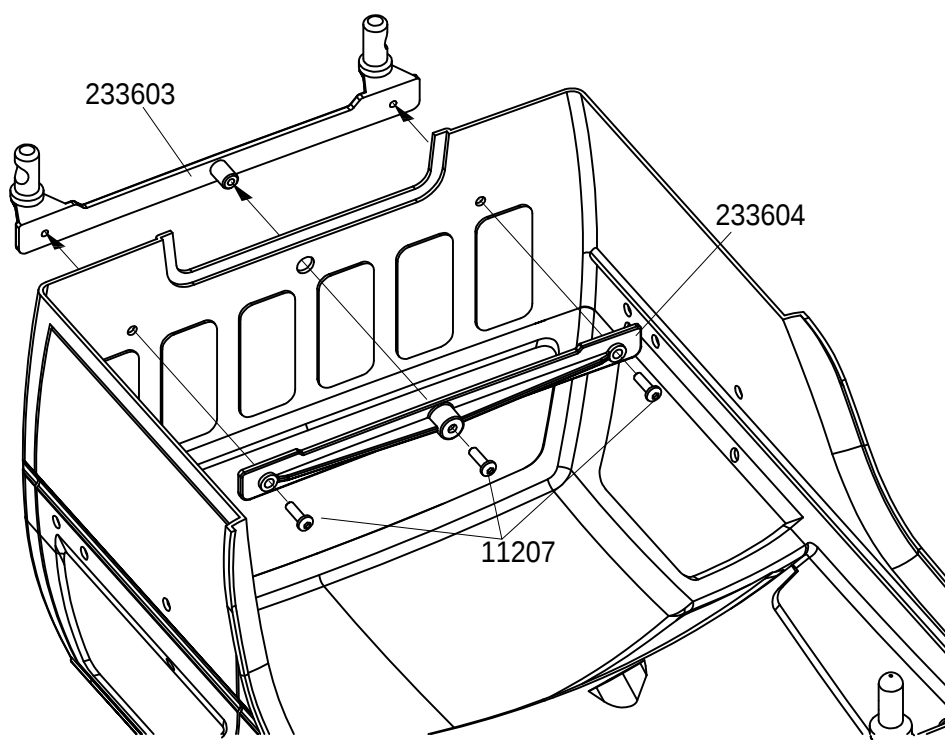
EMOX3



BAG(BB)

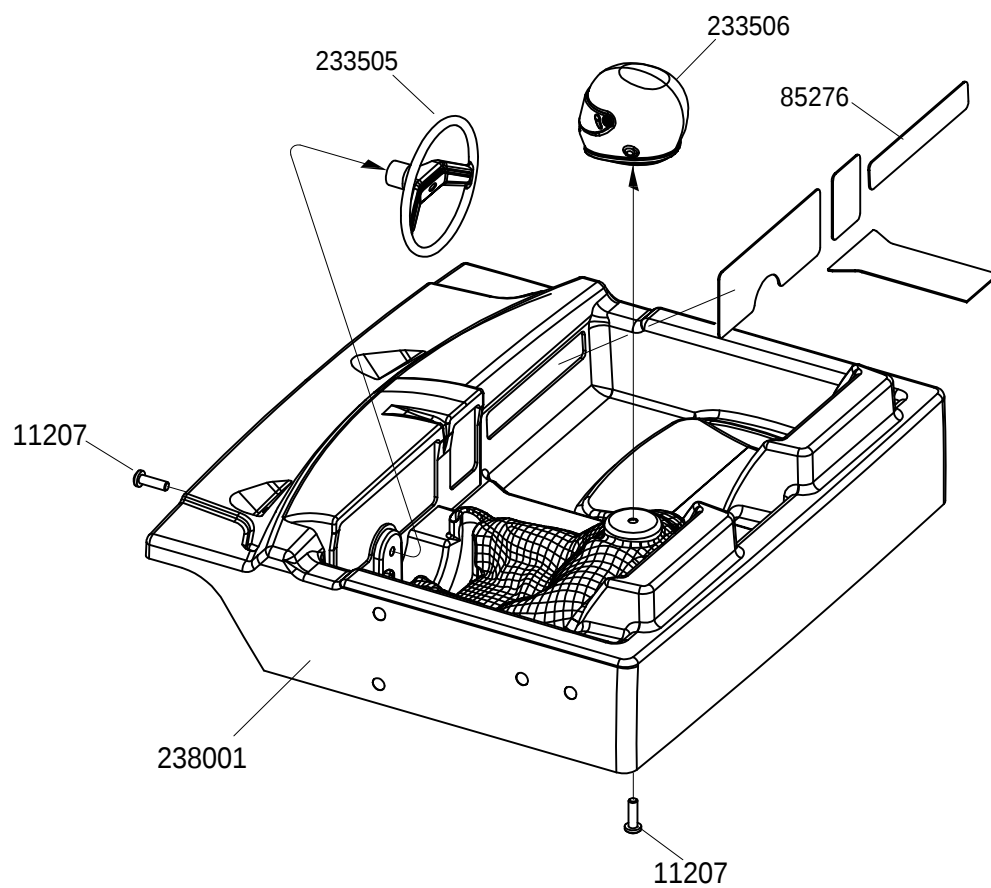
EMOX3

11207 
M3x10x3



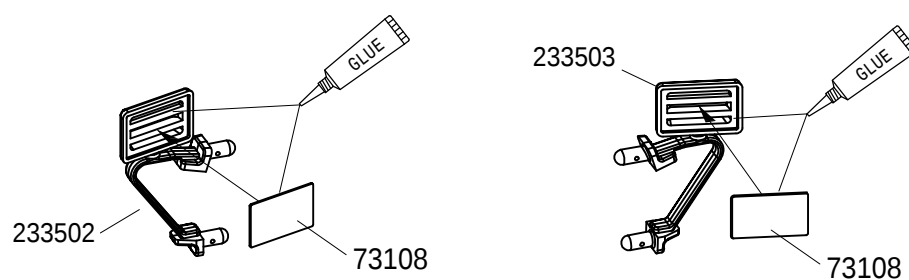
EMOX2

11207 
M3x10x2



BAG(J)

EMOX3



BAG(BB)

EMOX3

11102  M2x6 X2

 94015 X8

