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.

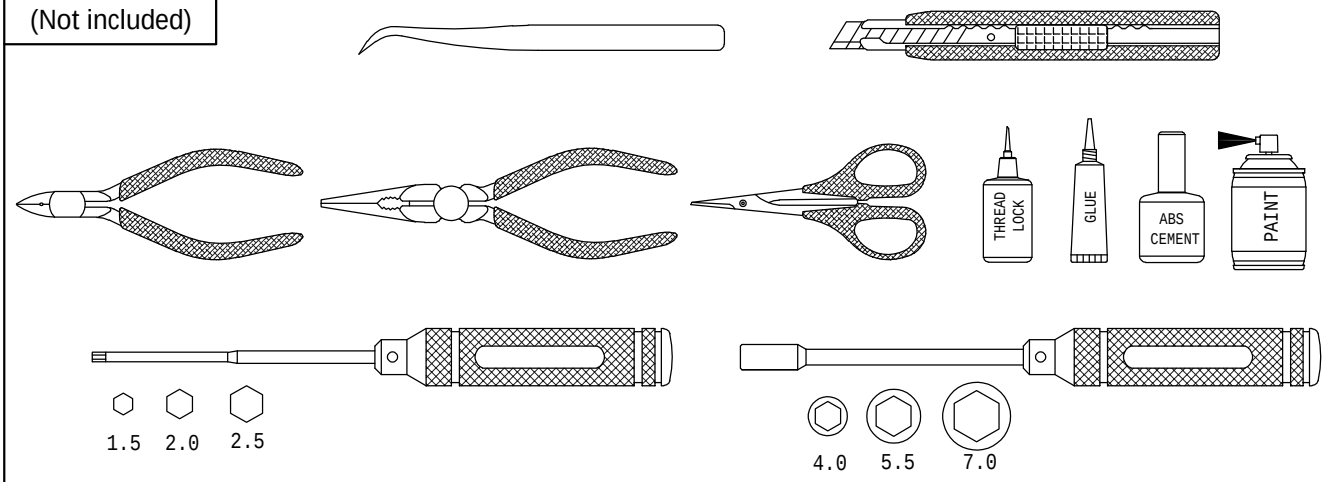
Inspect your radio-controlled model before operation

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.

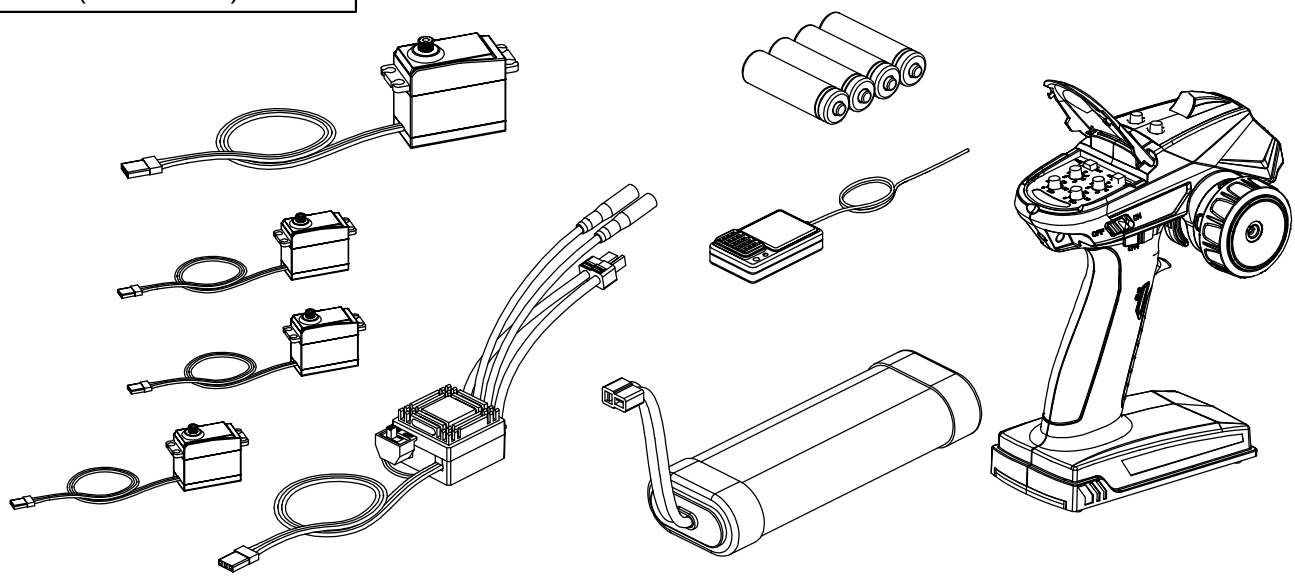
After operating your radio-controlled model

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 X 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 41 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.

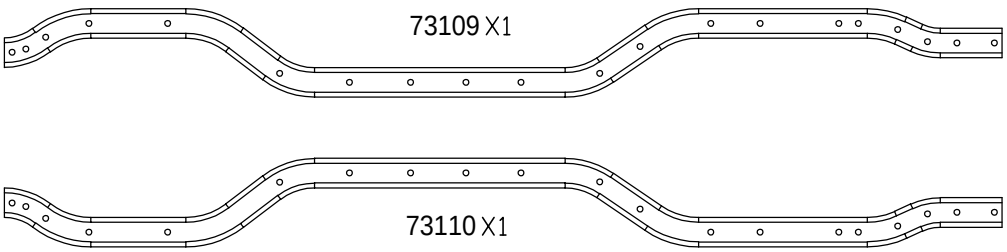
Requirements and recommendations for electronic equipment:

Name	Specifications	Remarks
Remotes controller	6 channels or Up	Waterproof connector is recommended
Servo	Steering servo ≥25KG	High pressure standard Servo in waterproof
	Shift servo ≥3KG x 3	For the size of medium Servo, please refer to the configuration drawing below
ESC	Continuous current ≥ 80A	ESC BEC >3A
Brush motor	Brush motor 560 25T or Up	The Max. Size: Ø39mm*80mm Installation hole spacing: 25mm
Brushless motor	≤2200KV	
Motor gear	M=0.8 Z=16T~20T	M=0.8≠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)

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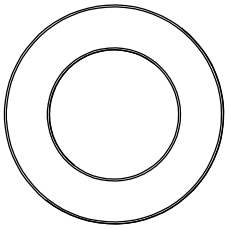

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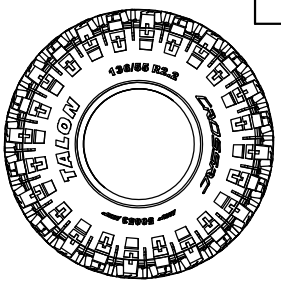

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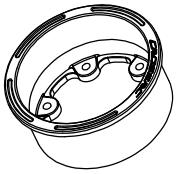
227001 X5



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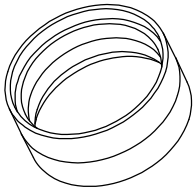

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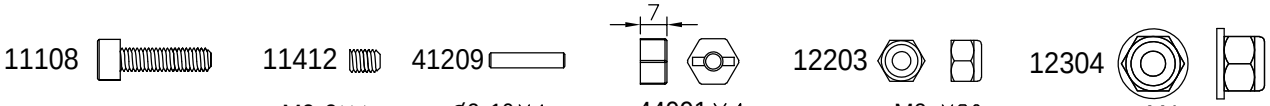


11108 M3x12 X30

11412 M3x3 X4

41209 Ø2x10 X4

44091 X4

12203 M3 X30

12304 M4 X4

BAG(B)

EMOX1

91128 X4

91129 X4

215401 X4

Ø7xØ3xØ2

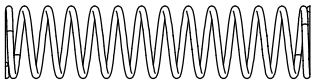
50021 X4

Ø7xØ2

17037 X8

Ø8xØ6xØ1

17001 X4



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226901 X4

226902 X4

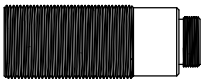
226903 X4

11133

M2x12 X4

44221 X4

44218 X4



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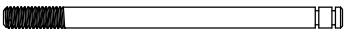
44219 X4

11102 X4 M2x6

14109 X4 Ø4xØ2x0.5

14115 Ø4xØ7x0.1X4

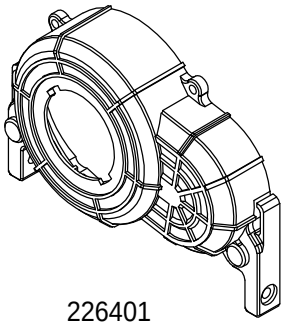


44220 X4

13003 ø2.5xø6x0.4 X8

BAG(C)

EMOX1



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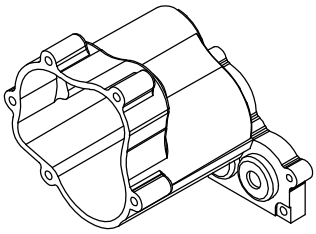

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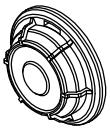

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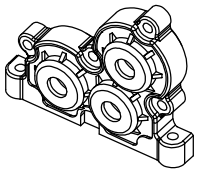

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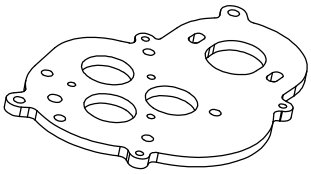

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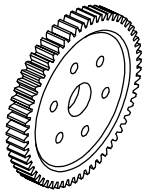

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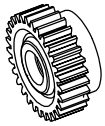
41768(20T)

41750

41749 X2



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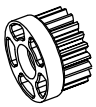

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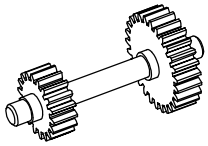

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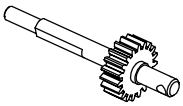

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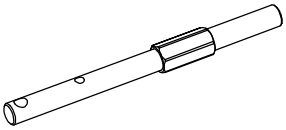

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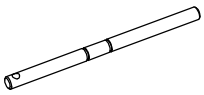

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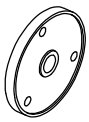

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74016

13001

Ø3xØ7.8x0.5 X2

42236

ø5.1xø7.5x2.5 X1

42203

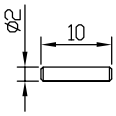
ø5.1xø8x1.5 X2

72007

ø5xø8x0.3 X11

14102

Ø3xØ7x0.5 X2



41209 X1

11217

M2.5x10 X6

11216

M2.5x6 X3

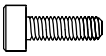
11205

M3x6 X6

11207

M3x10 X7

11107



M3x10 X2

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M3x4 X1

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M2.5x6 X3

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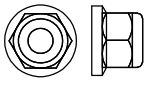


M4 X1

41834 X1

41307 X1

15012

ø5xø10x4 X11

15014

ø5xø8x2.5 X4

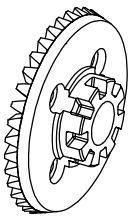
BAG(D)

EMOX1


33906 X4


33907 X8


36201 X2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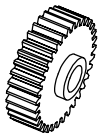
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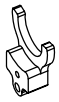
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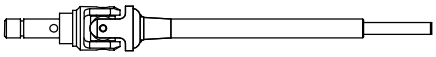
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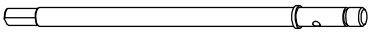
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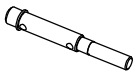
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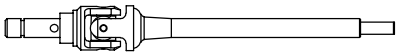
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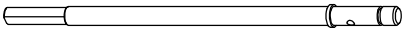
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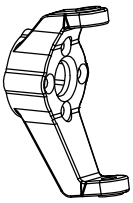
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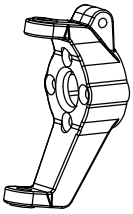
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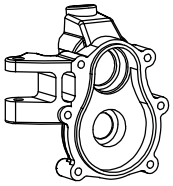
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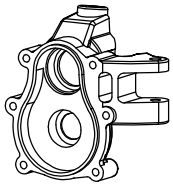
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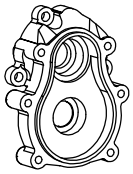
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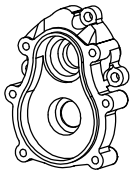
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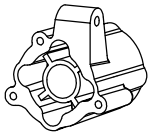
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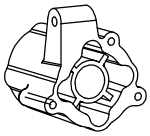
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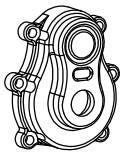
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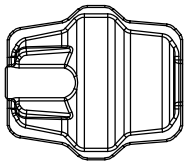
226710 X4


226711 X2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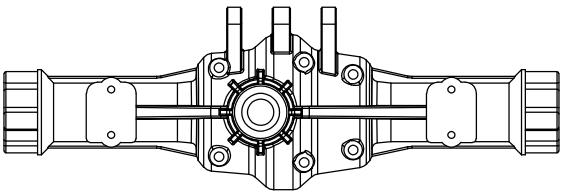
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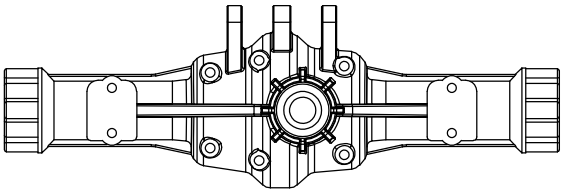
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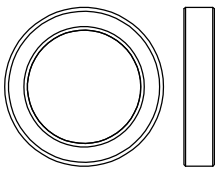
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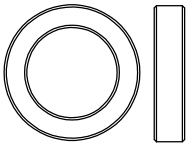
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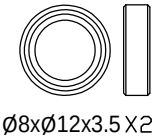
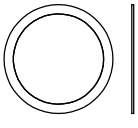

Ø8xØ12x3.5 X2

15012


Ø5xØ10x4 X18

75026


Ø12xØ15x0.2 X2

72007


Ø5xØ8x0.3 X2

13002


Ø3.8xØ9.2x0.6 X6

11401


M3x4 X4

11227


M2.5x8 X8

11316


M2.5x10 X18

11125

M2.5x10 X38

11120

M2.5x20 X12

42208

M3x10 X4

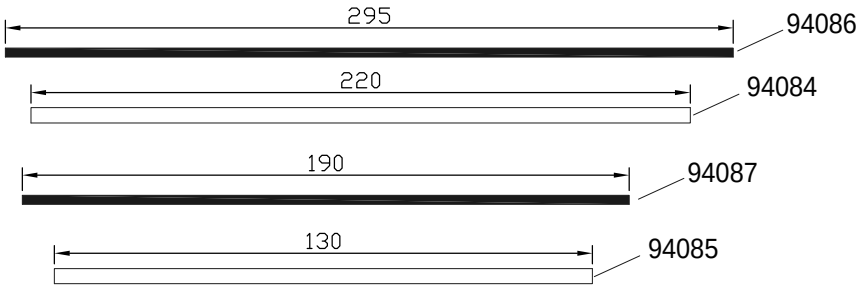
75023

Ø2x14 X2

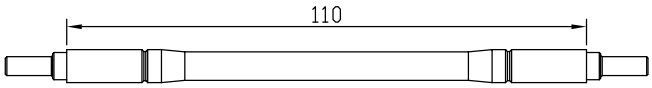
41259

Ø2x7.5 X8

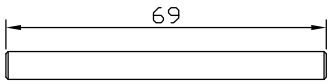
BAG(E)



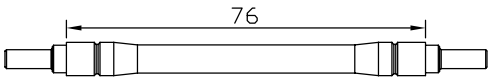
BAG(F)



41696 X3



42244 X2



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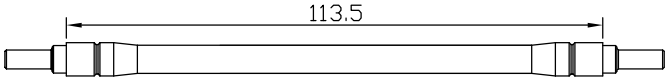
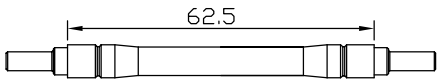


41695 X4



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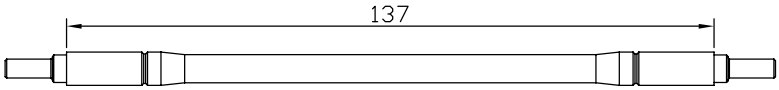

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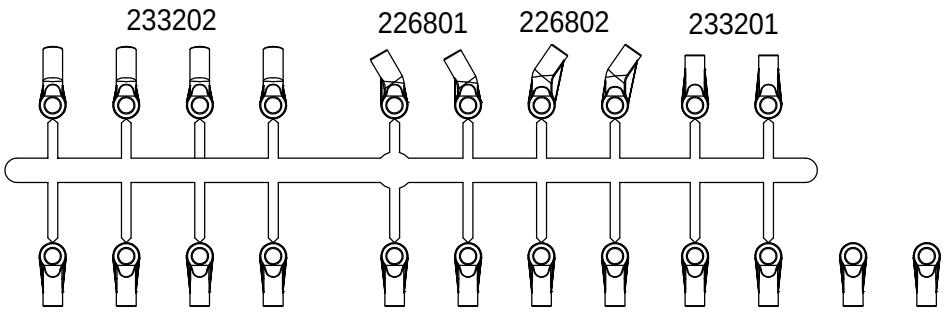
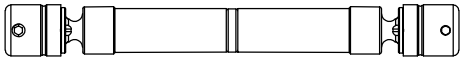
BAG(G)

41753X24



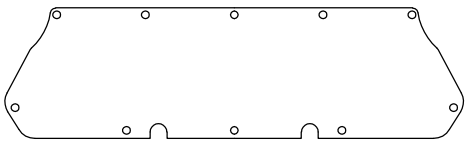
BAG(H)



95094 X2

BAG(I)

73096 X2



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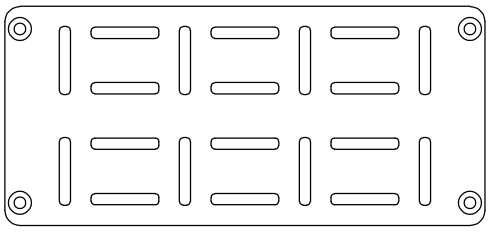
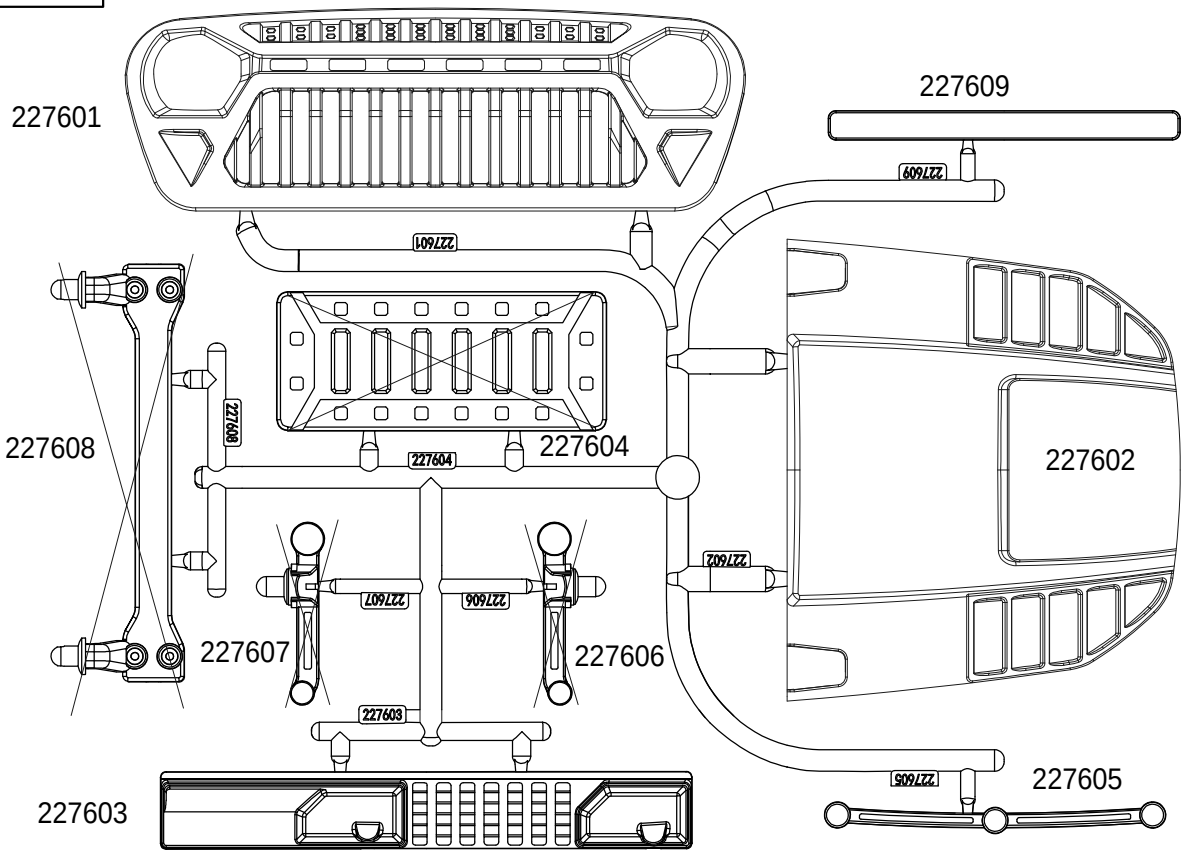
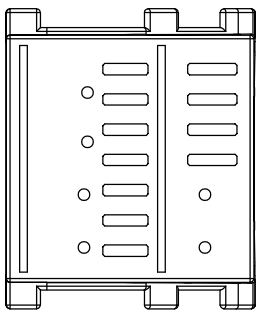


44249

BAG(J)



BAG(K)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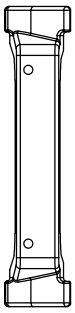
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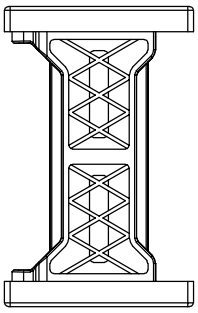
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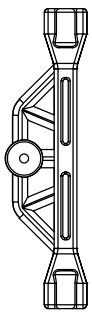
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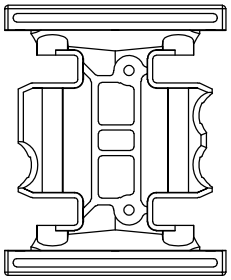
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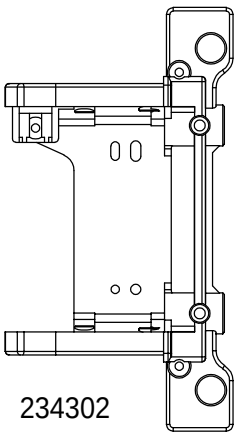
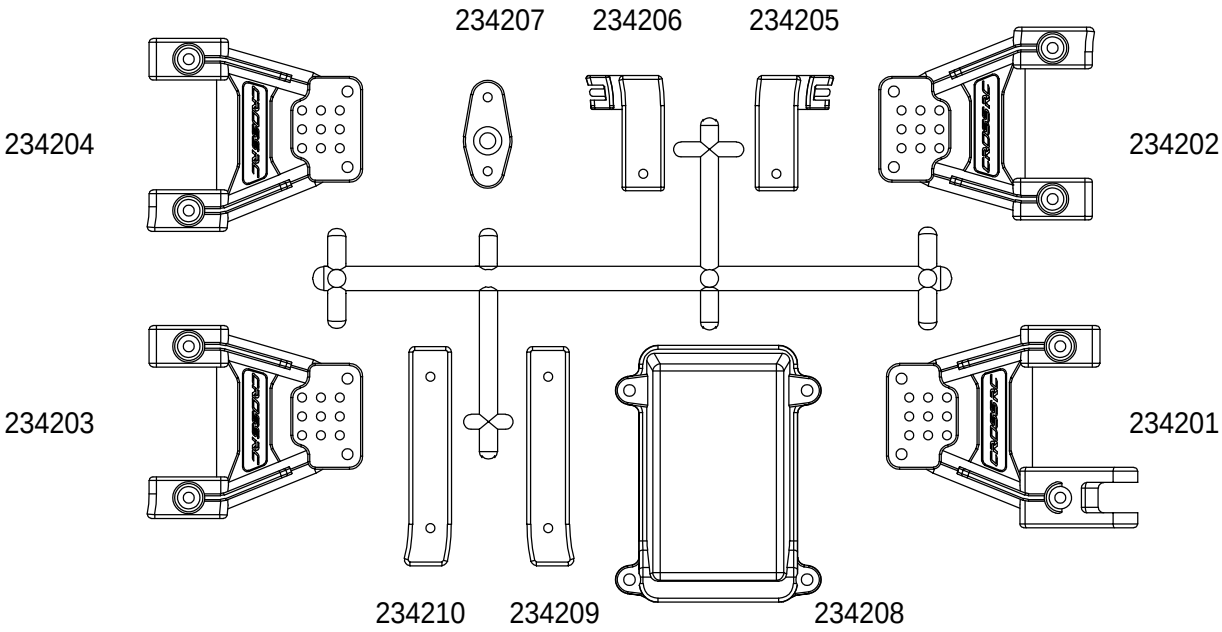
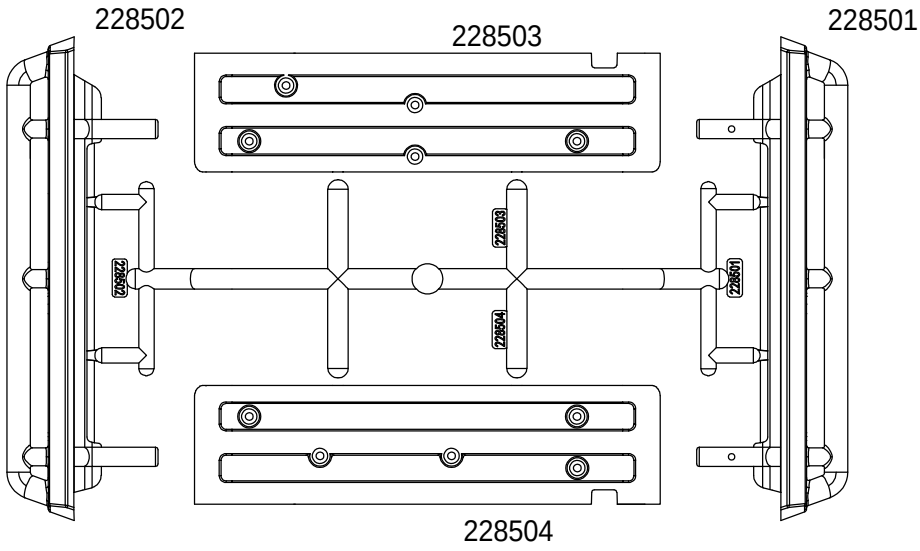

234302

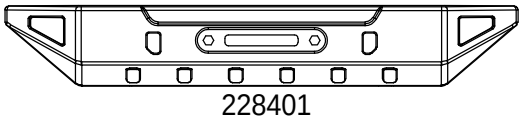
BAG(L)



BAG(M)



BAG(N)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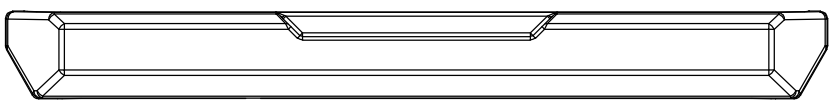
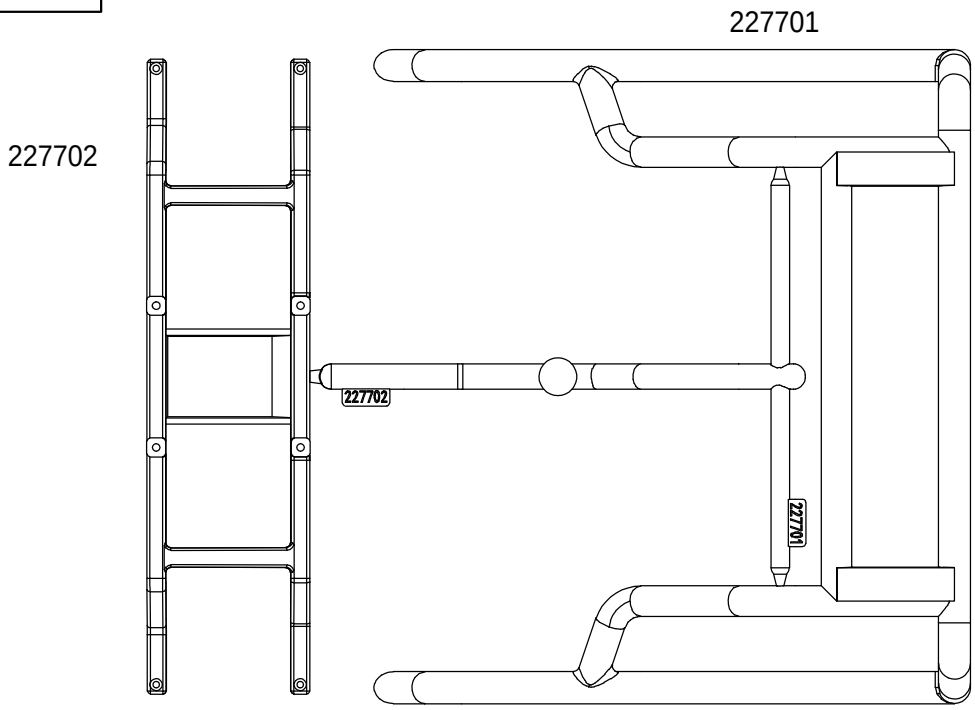
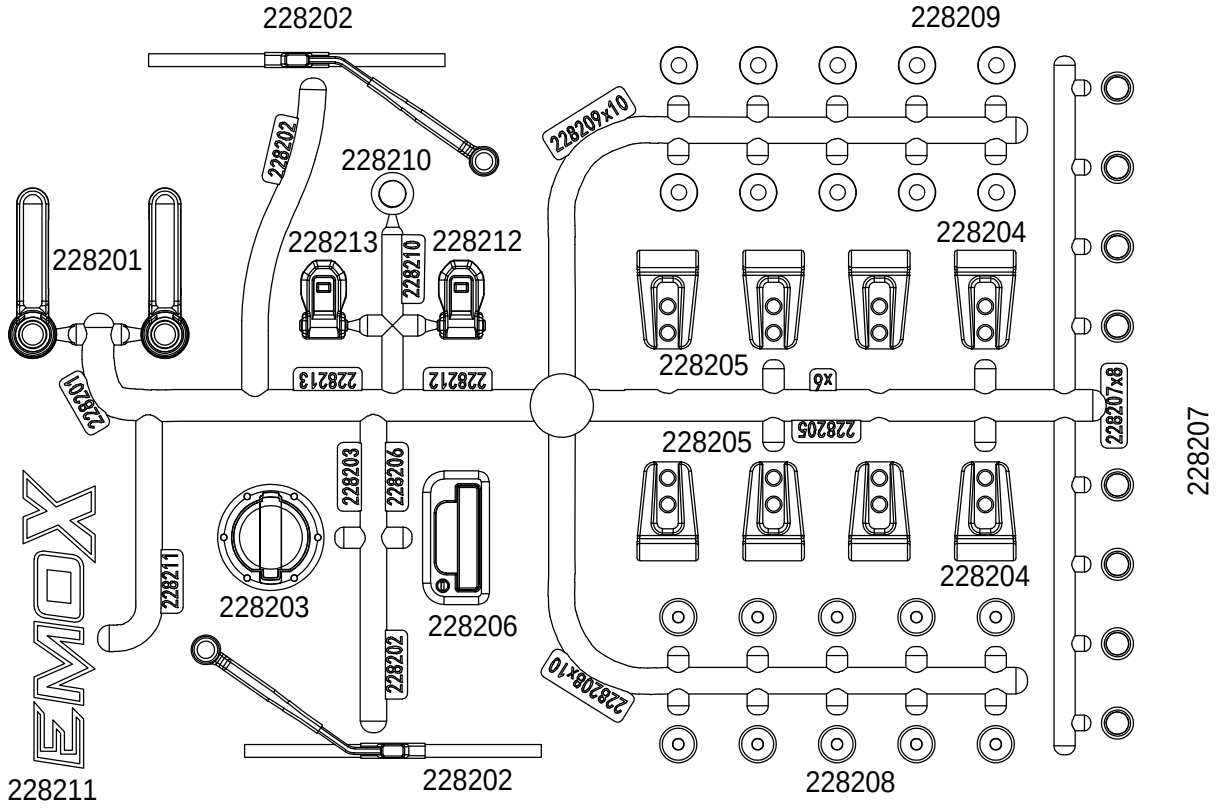

228402

BAG(O)


227701
227702
227702
227701

BAG(P)


228202
228209
228210
228201
228213
228212
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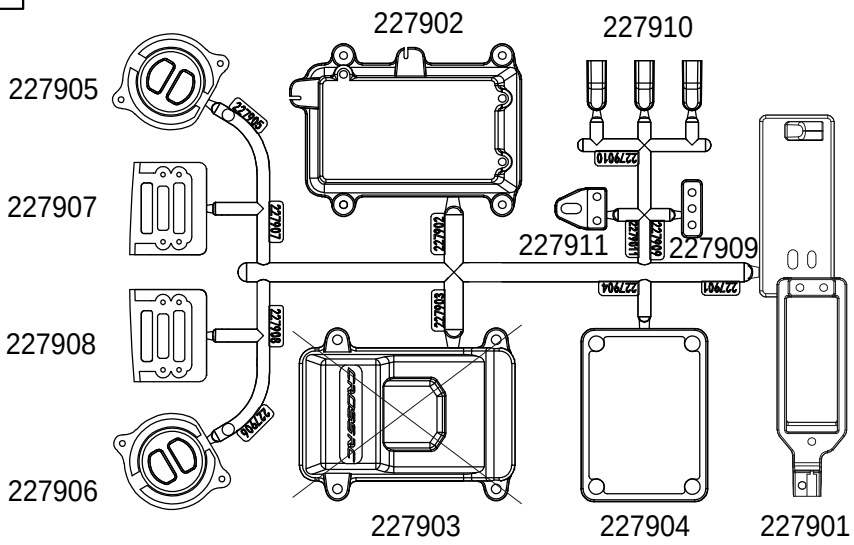
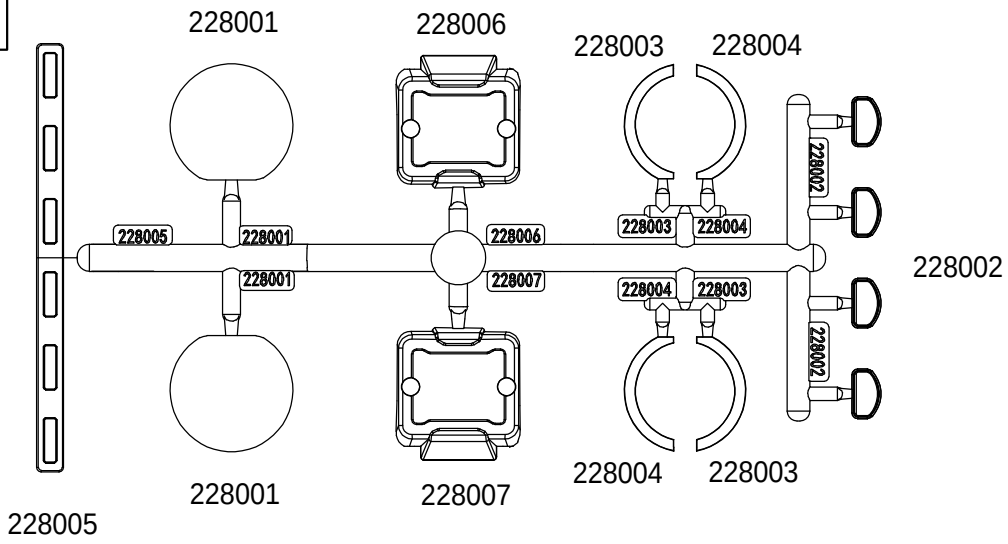
228205
228205
228204
228203
228206
228211
228202
228208
228207

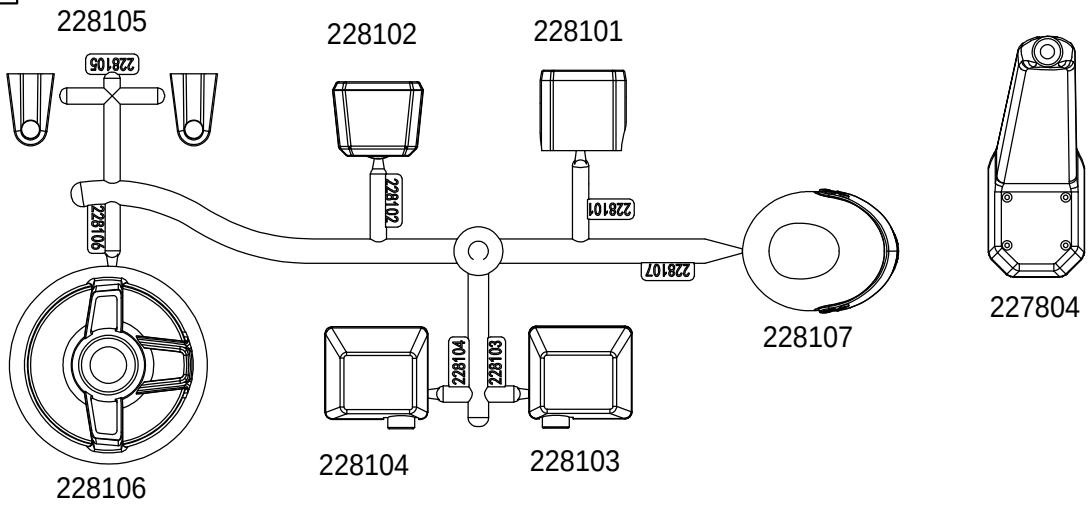
BAG(Q)



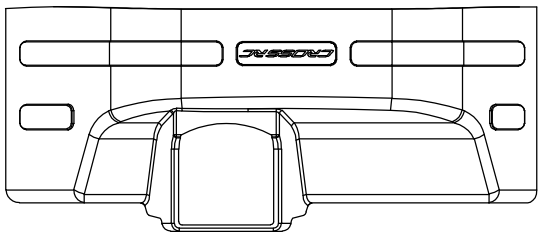
BAG(R)



BAG(S)



BAG(T)



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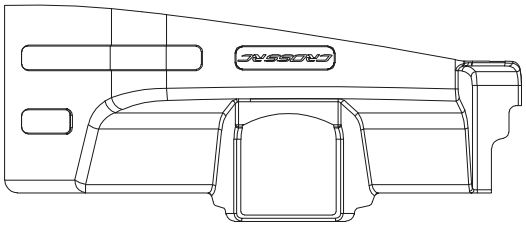
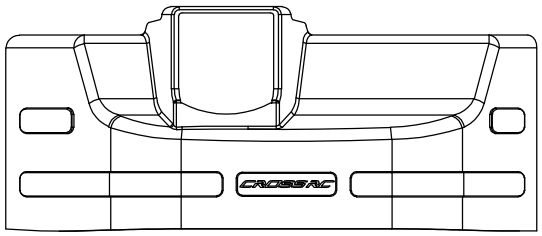
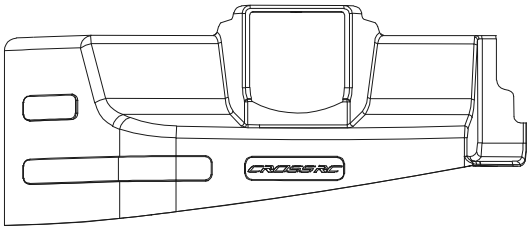


227201

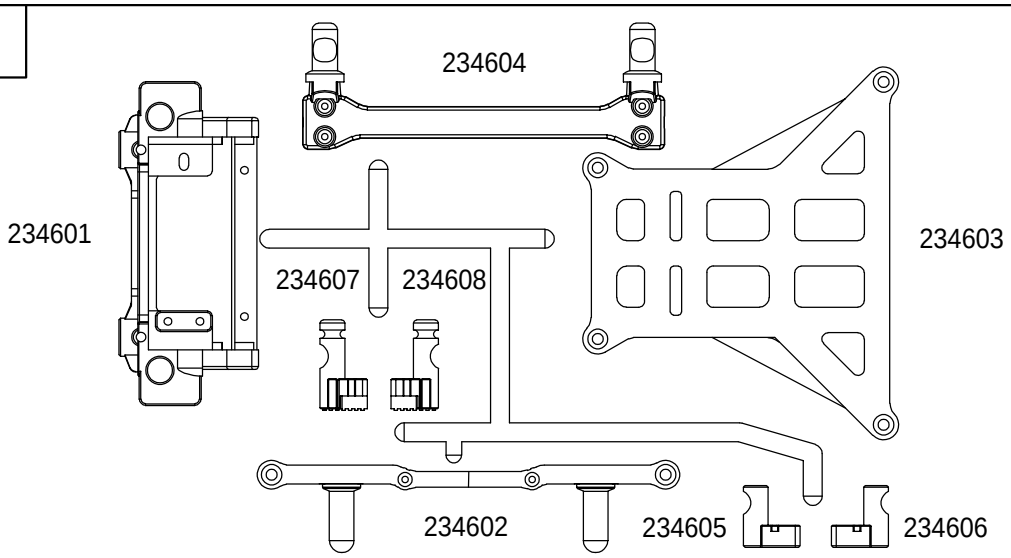


227301

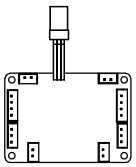


227202

BAG(U)



BAG(V)



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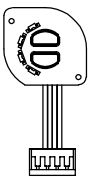

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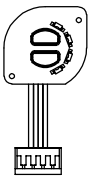

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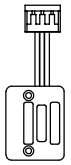

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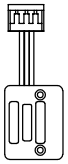

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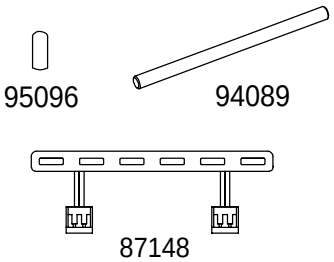

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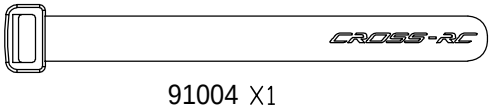
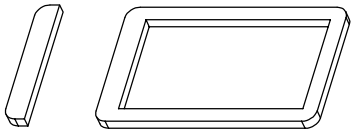


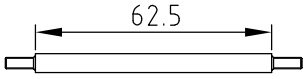
91004 X1



BAG(W)

41336 X4

41205



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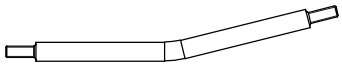
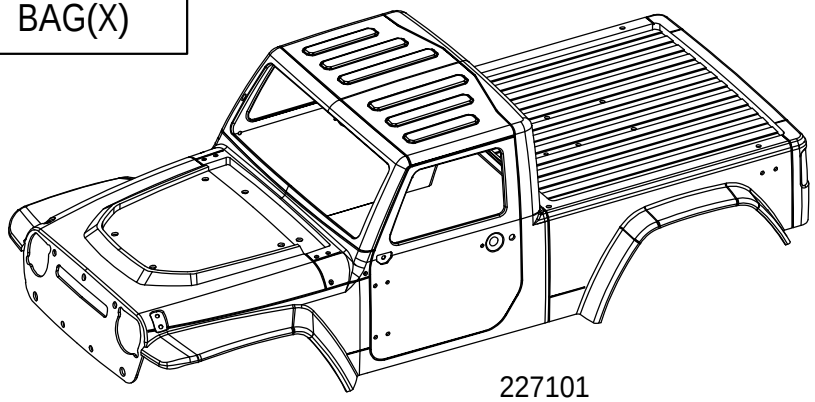


41781

223903 X4

BAG(X)



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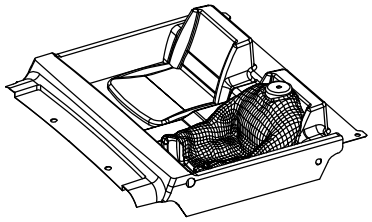
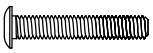


227102

BAG(Y)

11205 M3x6 X2



11211 M3x18 X7

11106 M3x8 X1

11401 M3x4 X1

11102 M2x6 X27

11206 M3x8 X11

11212 M3x20 X4

11239 M3x8 X20

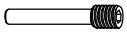
11413 M4x13.5 X8

11103 M2x8 X10

11207 M3x10 X31

11213 M3x22 X3

11303 M3x8 X14



42209 X2

11104 M2x10 X4

11208 M3x12 X10

11214 M3x25 X5

14102 Ø3xØ7x0.5 X1

12203 M3 X1

11126 M2x14 X2

11209 M3x14 X4

11215 M3x28 X4

11133 M2x20 X2

11116 M2.5x12 X4

11210 M3x16 X10

11223 M3x30 X2

12307 M3 X4

BAG(Z)

91176 X2

42231 X2

11227 M2.5x8 X3

12206 M2 X3

11401 M3x4 X3

44172 X1

91175 X3

41819 X2

94056 X1

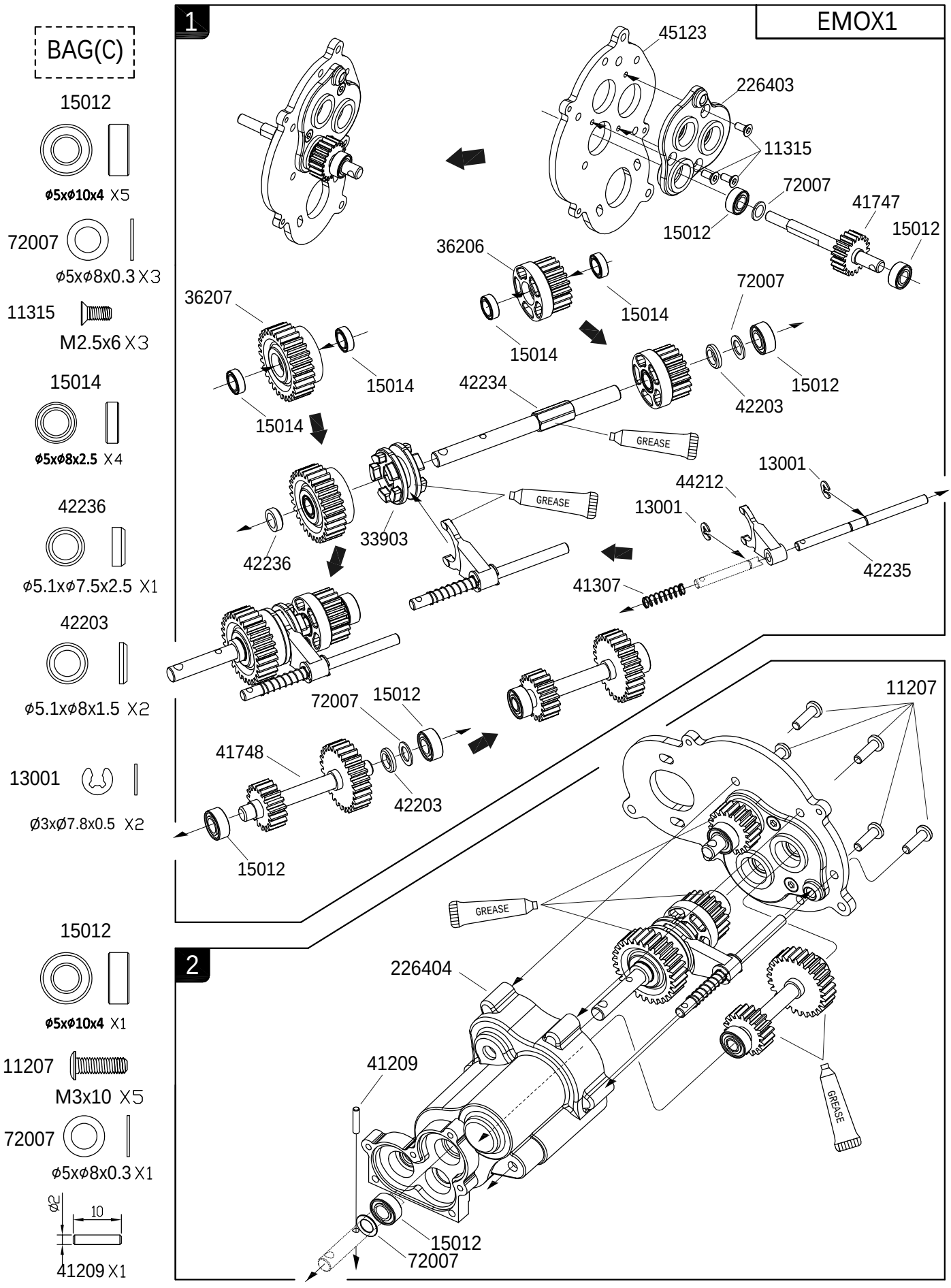
BAG(AA)

11206 M3x8 X2

11210 M3x16 X2

14103 Ø3.2xØ9x1 X2

201602 X2


EMOX1
1
BAG(C)
15012
ø5xø10x4 X5
72007
ø5xø8x0.3 X3
11315
M2.5x6 X3
15014
ø5xø8x2.5 X4
42236
ø5.1xø7.5x2.5 X1
42203
ø5.1xø8x1.5 X2
13001
Ø3xØ7.8x0.5 X2
15012
ø5xø10x4 X1
11207
M3x10 X5
72007
ø5xø8x0.3 X1
ø2
10
41209 X1
45123
226403
11315
72007
41747
15012
15012
36206
15014
72007
36207
15014
15014
15012
42234
42203
15014
GREASE
13001
44212
GREASE
13001
33903
42236
42235
41307
11207
72007
15012
41748
42203
15012
2
GREASE
226404
41209
GREASE
15012
72007

3

EMOX1

BAG(C)

11217
M2.5x10 X6

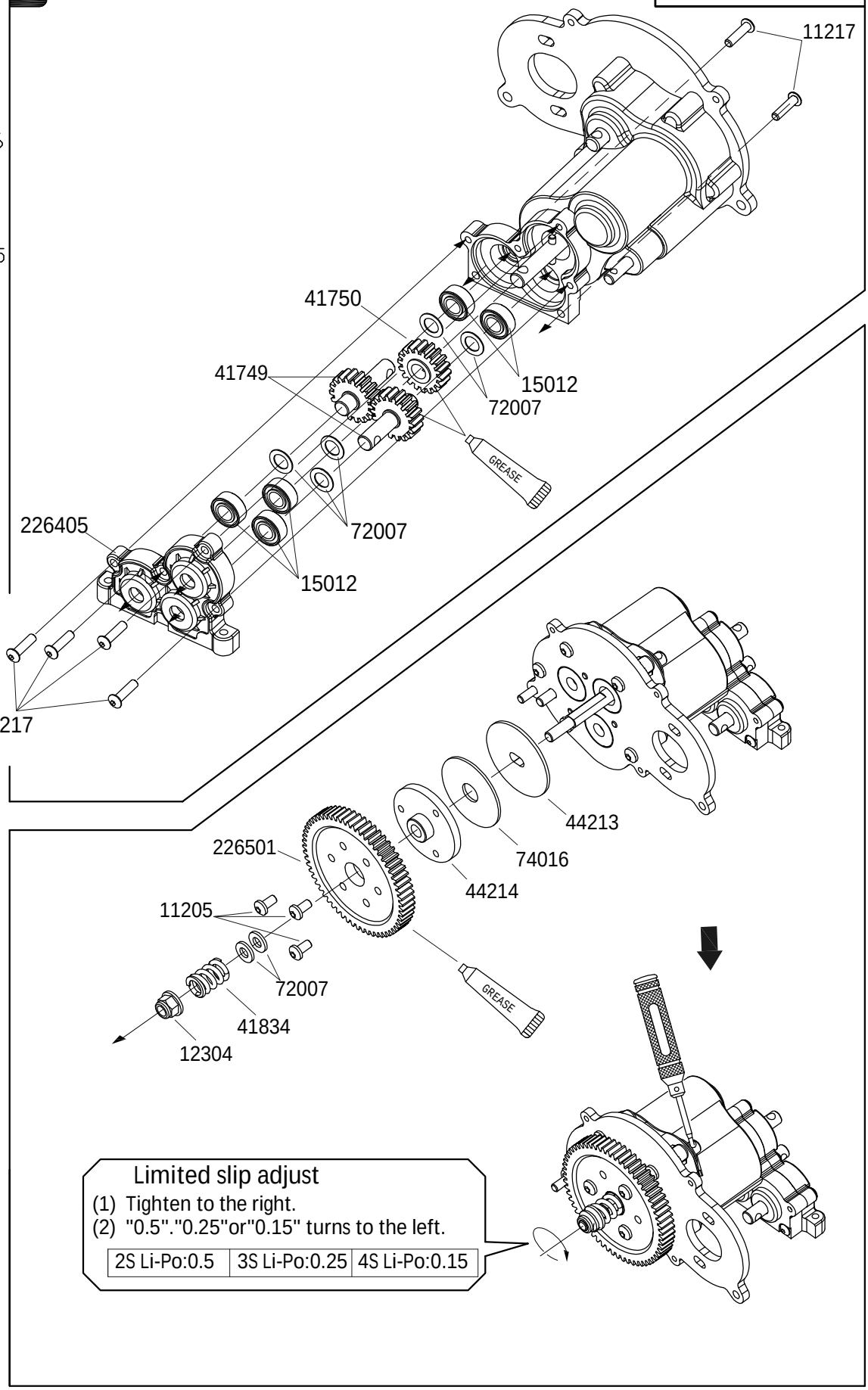
72007
ϕ5xϕ8x0.3 X5

15012
ϕ5xϕ10x4 X5

12304
M4 X1

72007
ϕ5xϕ8x0.3 X2

11205
M3x6 X3



Limited slip adjust

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

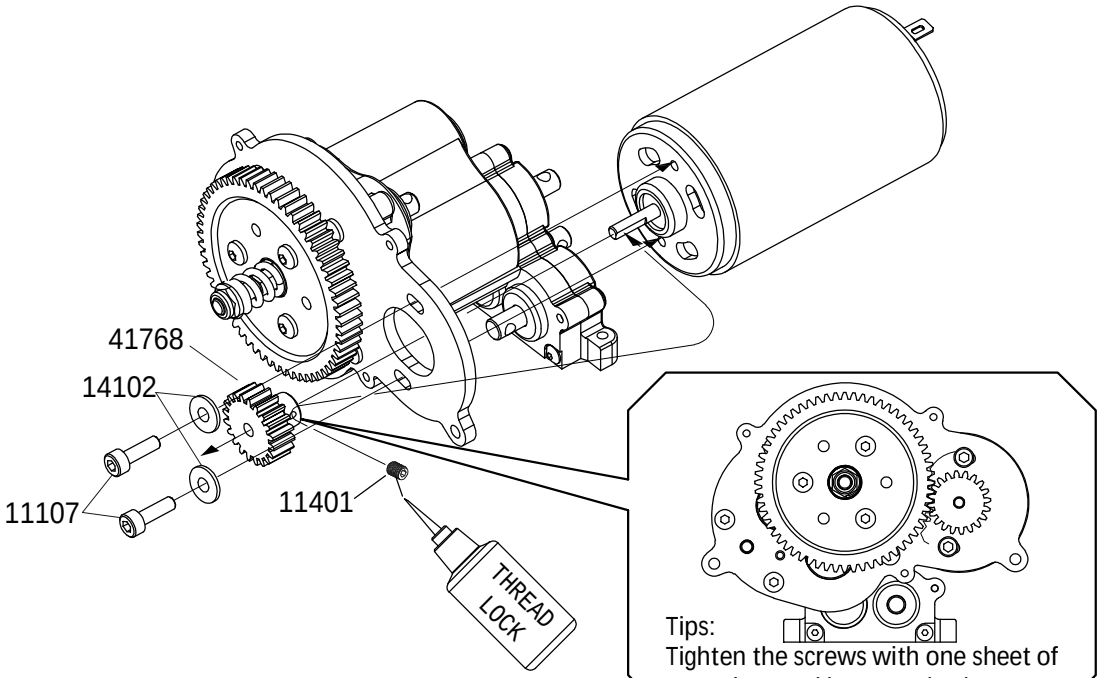
2S Li-Po:0.5	3S Li-Po:0.25	4S Li-Po:0.15

4 EMOX1

11401 M3x4 X1

14102 Ø3xØ7x0.5 X2

11107 M3x10 X2



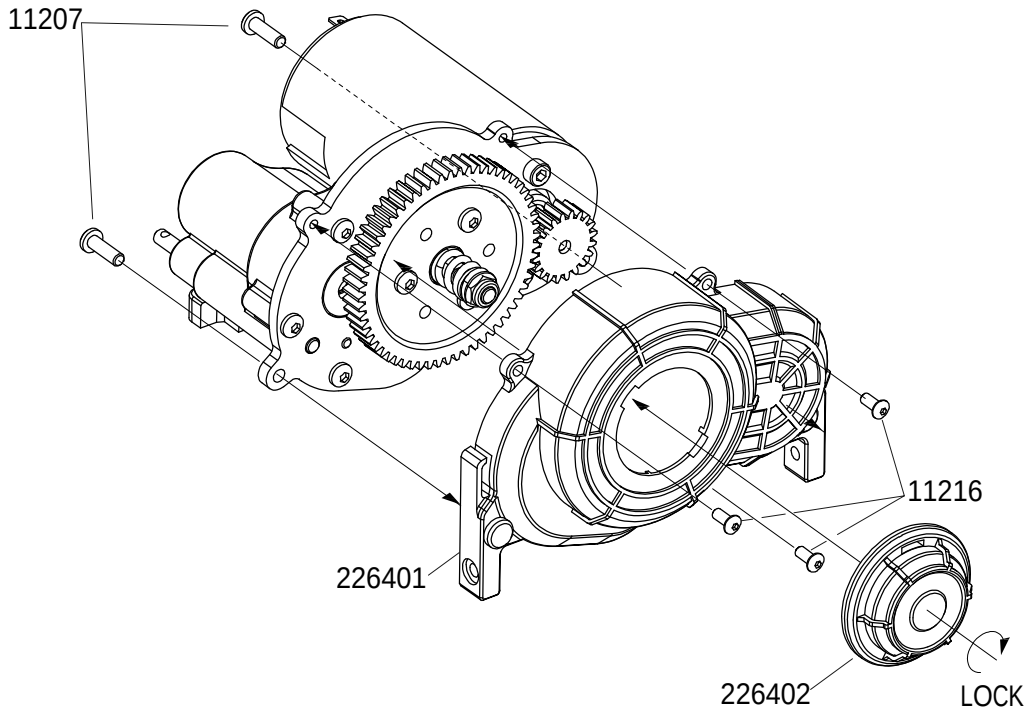
Final reduction ratio

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

5 EMOX1

11207 M3x10 X2

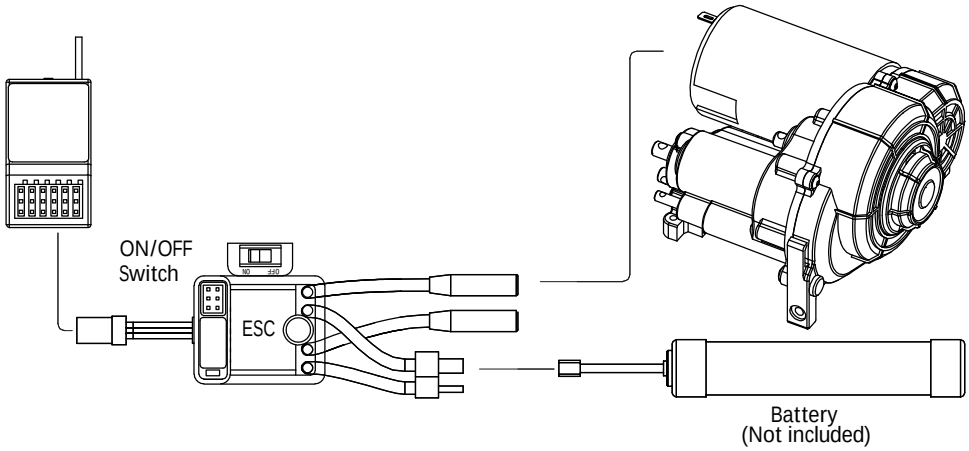
11216 M2.5x6 X3



6 EMOX1

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.

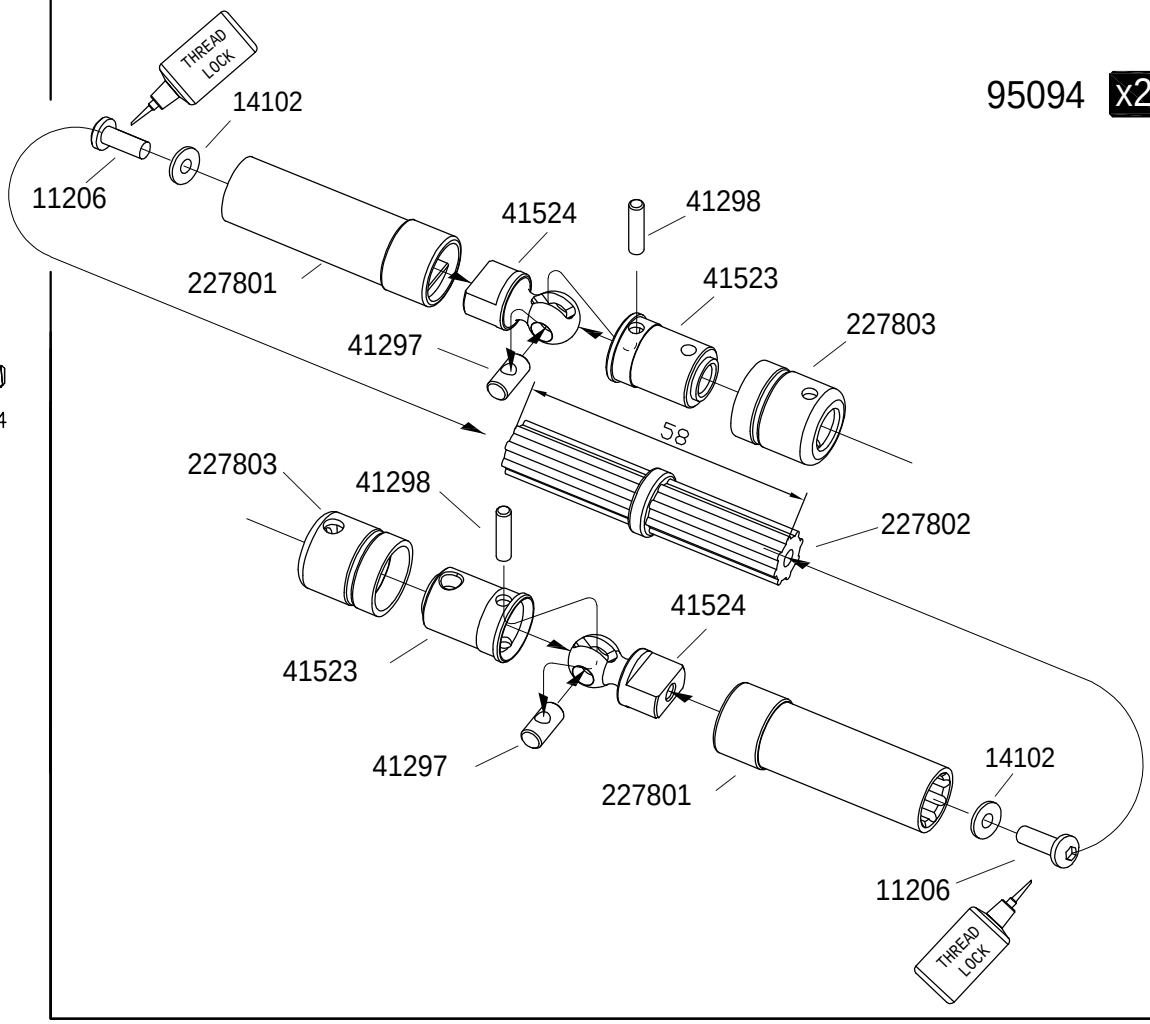


7 EMOX1

BAG(H)

11206
M3x8 X4

14102
Ø3xØ7x0.5 X4



95094 x2

8

EMOX1

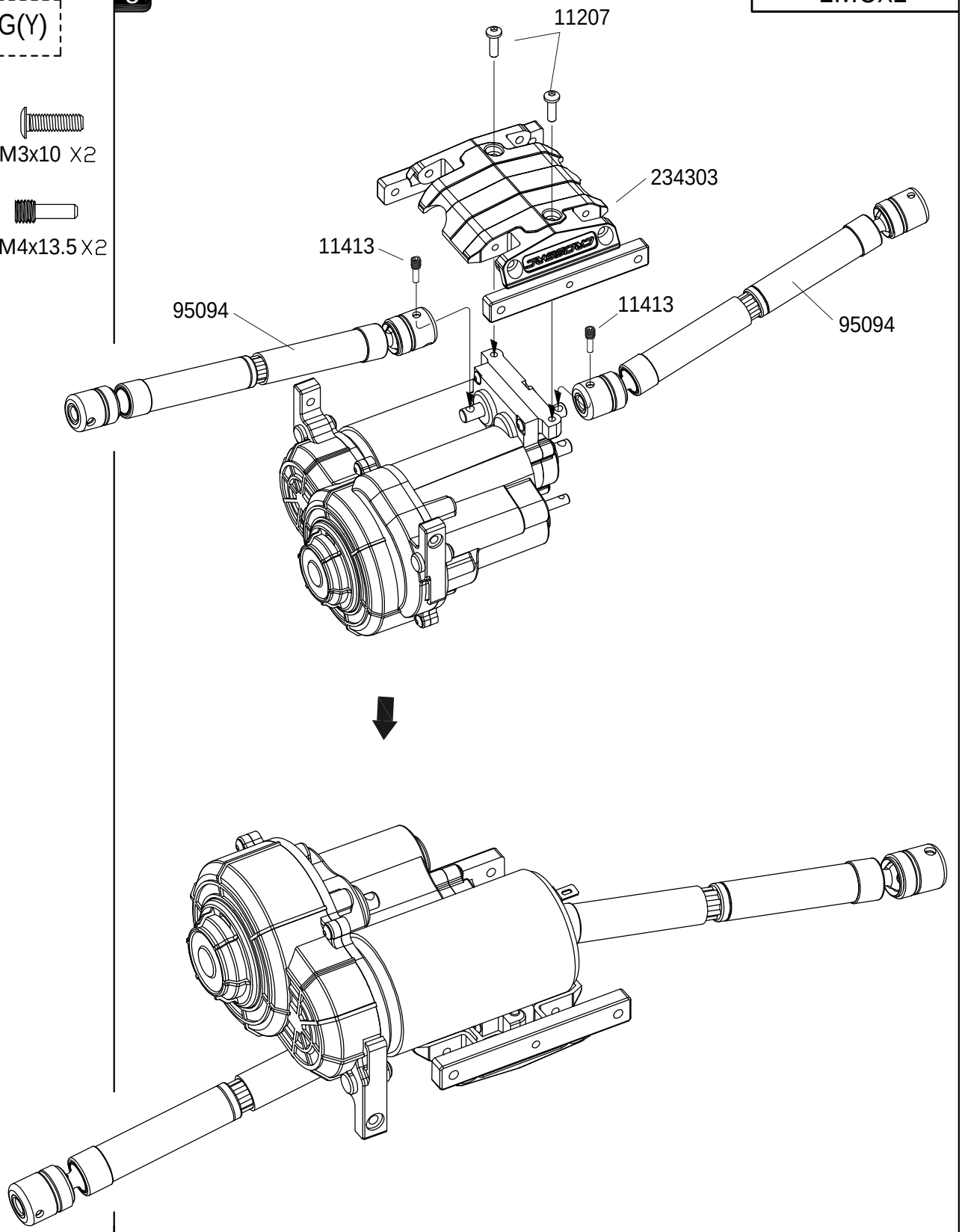
BAG(Y)

11207

M3x10 X2

11413

M4x13.5 X2



9

EMOX1

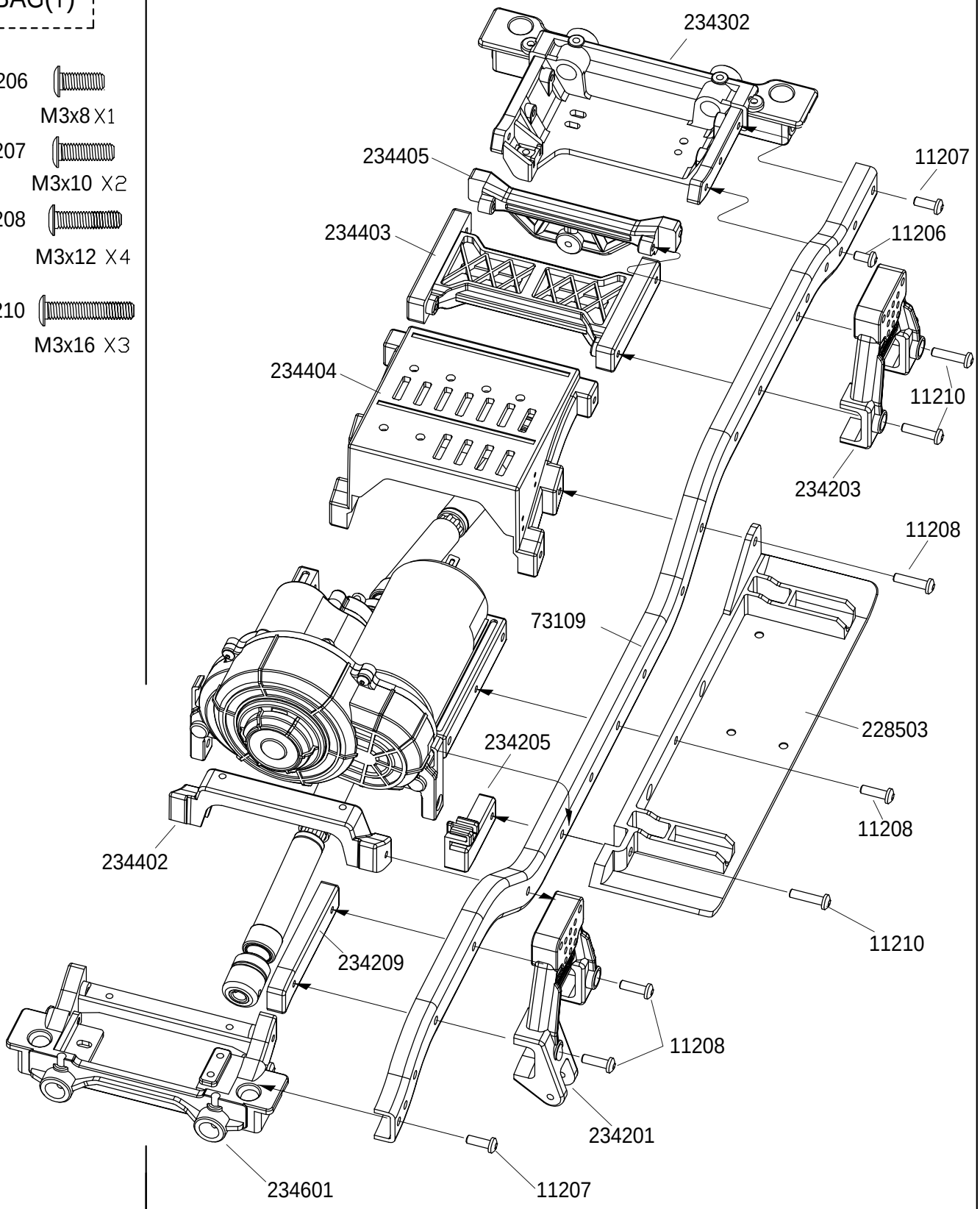
BAG(Y)

11206 M3x8 X1

11207 M3x10 X2

11208 M3x12 X4

11210 M3x16 X3

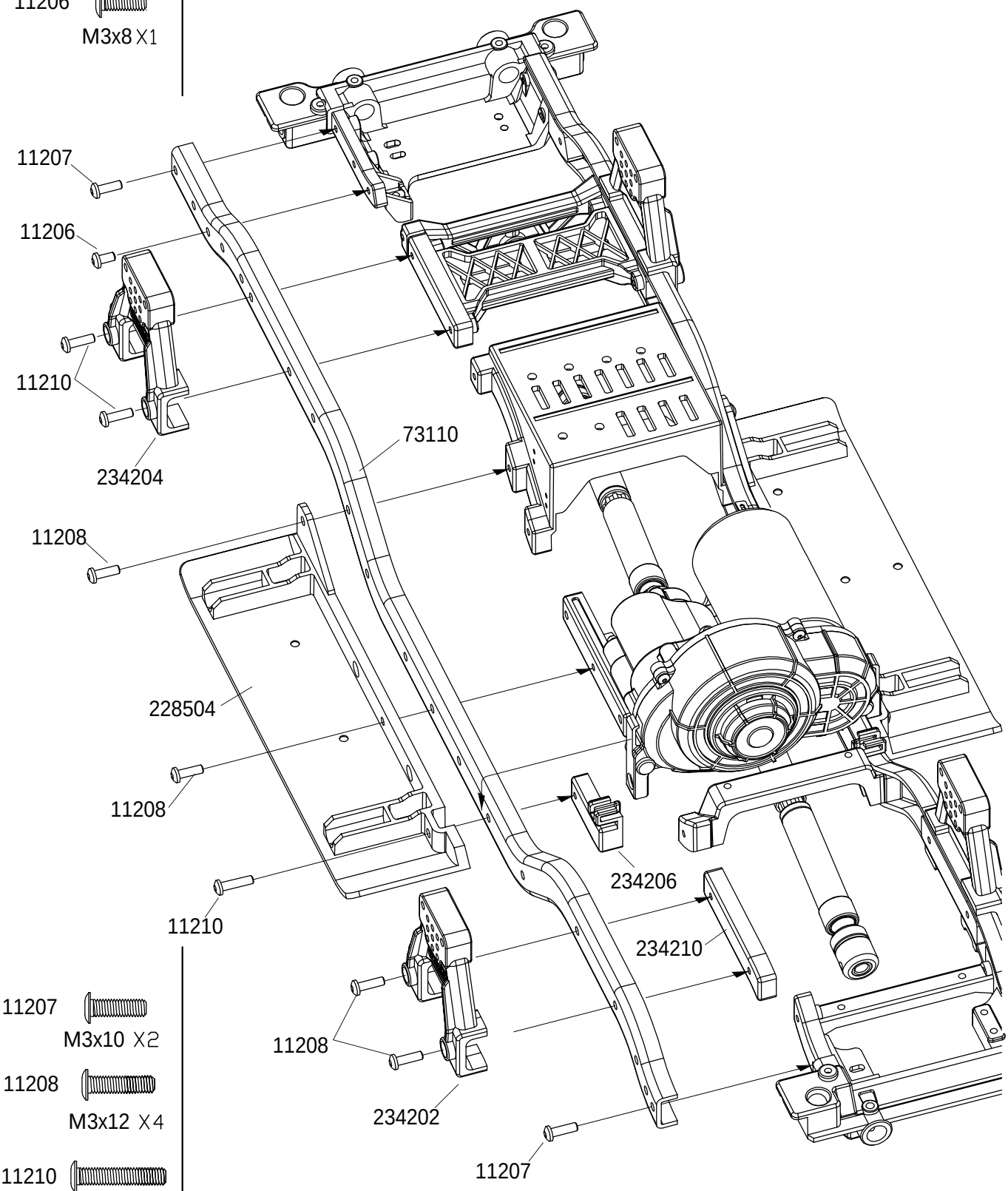


10

EMOX1

BAG(Y)

11206 M3x8 X1



11207 M3x10 X2

11208 M3x12 X4

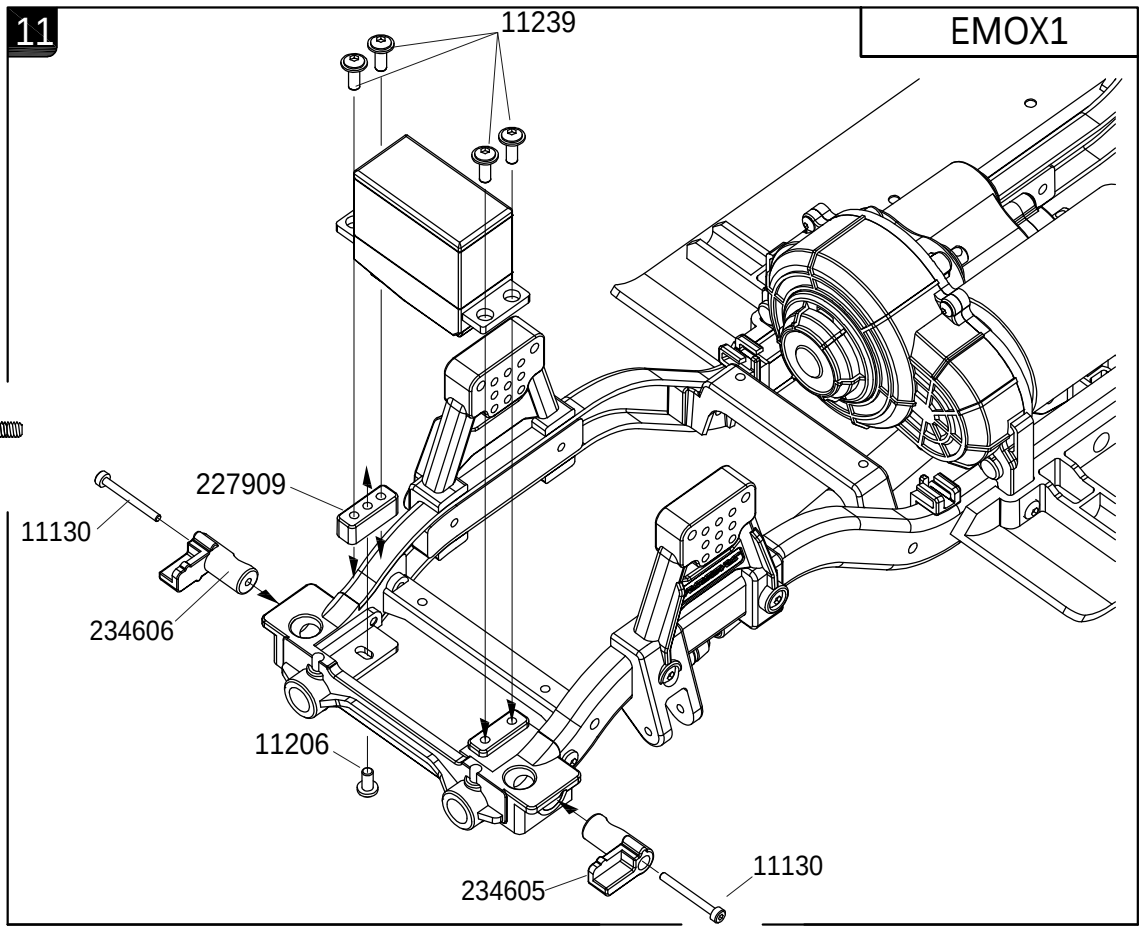
11210 M3x16 X3

BAG(Y)

11239 M3x8 X4

11206 M3x8 X1

11130 M2x20 X2



42209 X2

11206 M3x8 X2

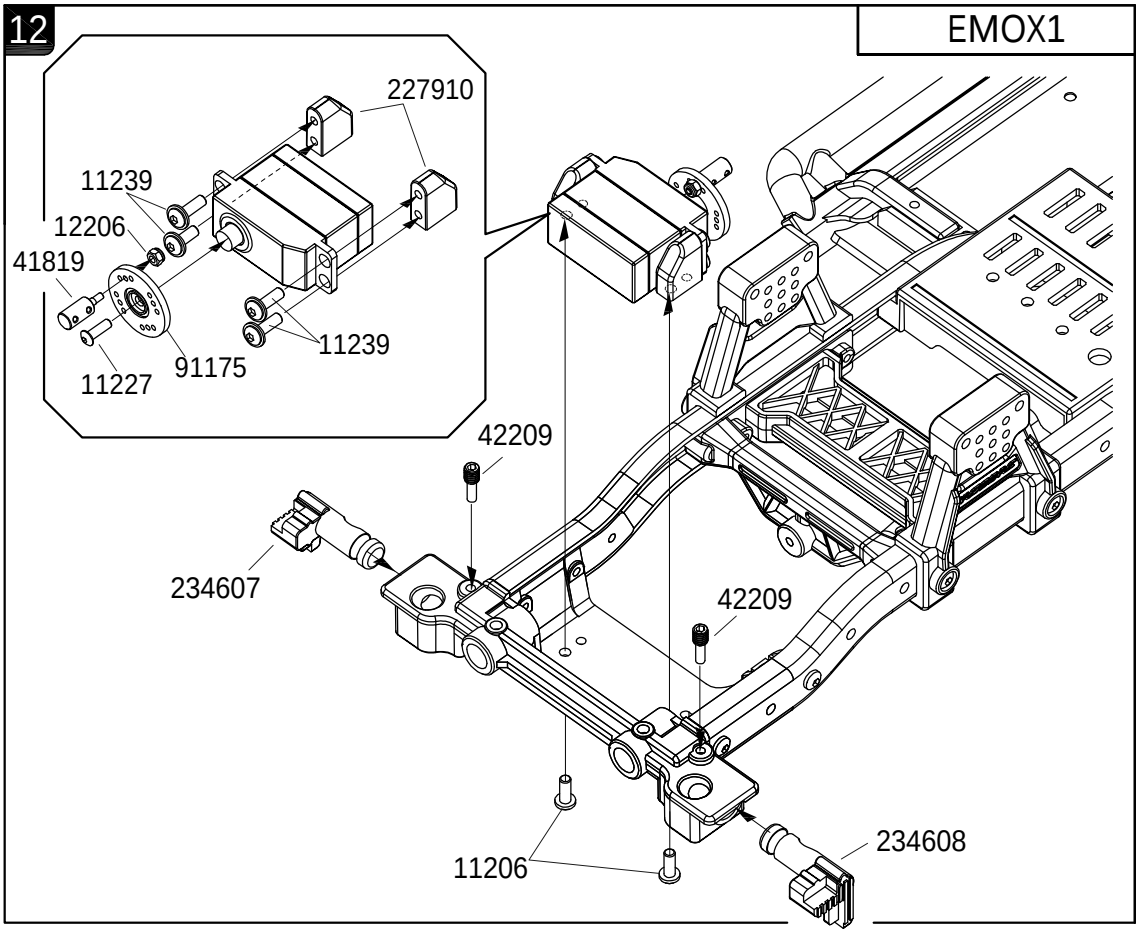
11239 M3x8 X4

BAG(Z)

11227 M2.5x8 X1

12206 M2 X1

41819 X1



BAG(B)

13003

ø2.5xø6x0.4 X8

Ø7xØ2

17037 X8

14115

Ø4xØ7x0.1X4

Ø7xØ3xØ2

50021 X4

Ø8xØ6xØ1

17001 X4

11133

M2x12 X4

11102

M2x6 X4

Ø4xØ2x0.5 X4

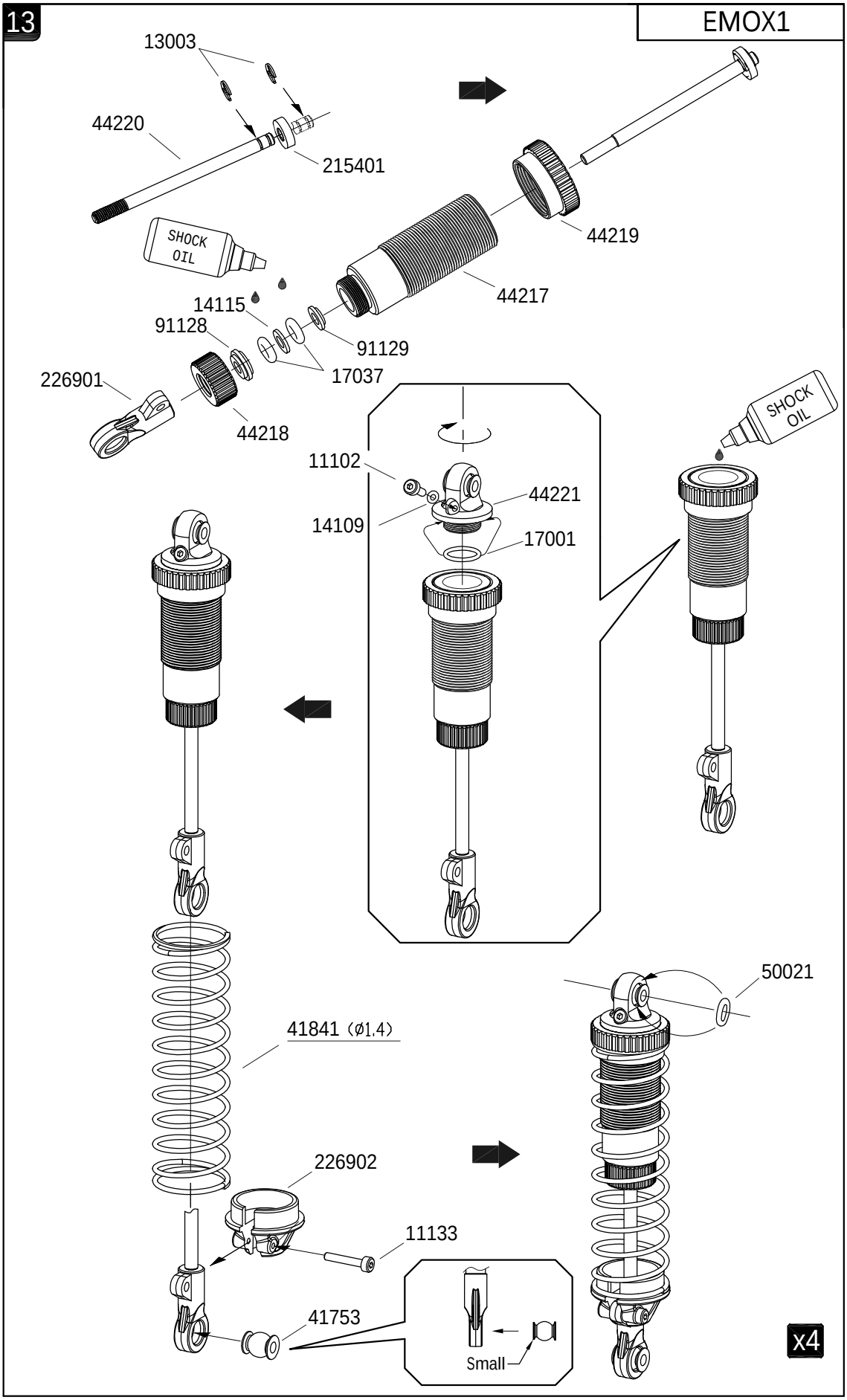
14109

41753 X4

41841 X4(ø1.4)

13

EMOX1

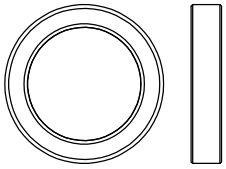


BAG(D)

11316
M2.5x10 X2

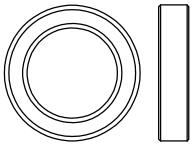
11227
M2.5x8 X8

15015



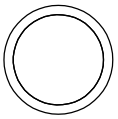
ø15xø21x4 X2

15016



ø12xø18x4 X2

75026



Ø12xØ15x0.2 X2

15012

Ø5xØ10x4 X2

13002

Ø3.8xØ9.2x0.6 X1

72007

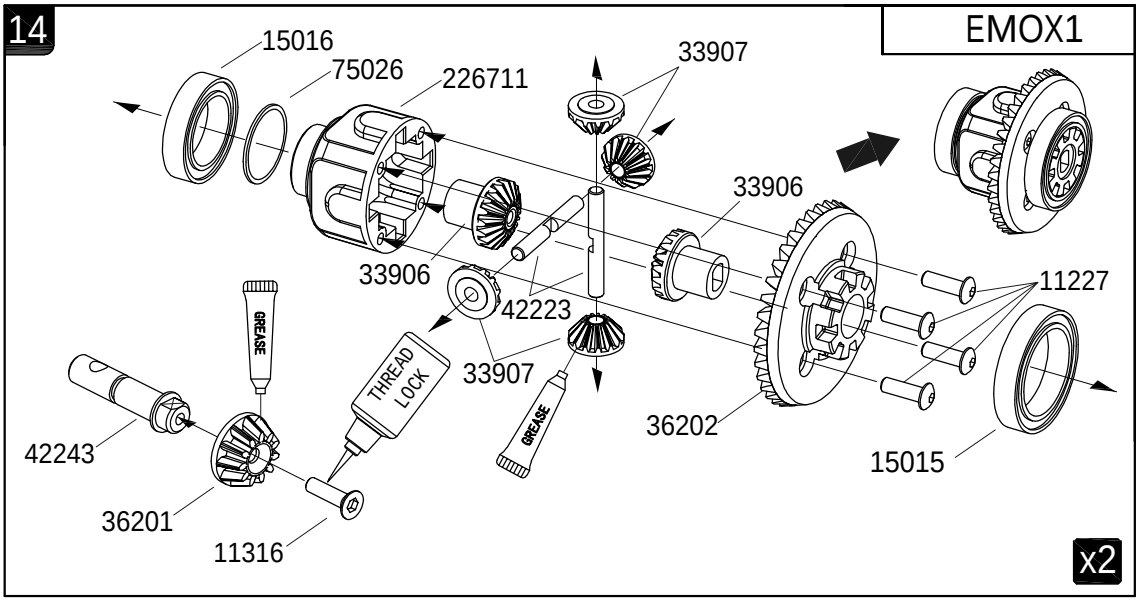
Ø5xØ8x0.3 X1

11125
M2.5x10 X4

11316
M2.5x10 X8

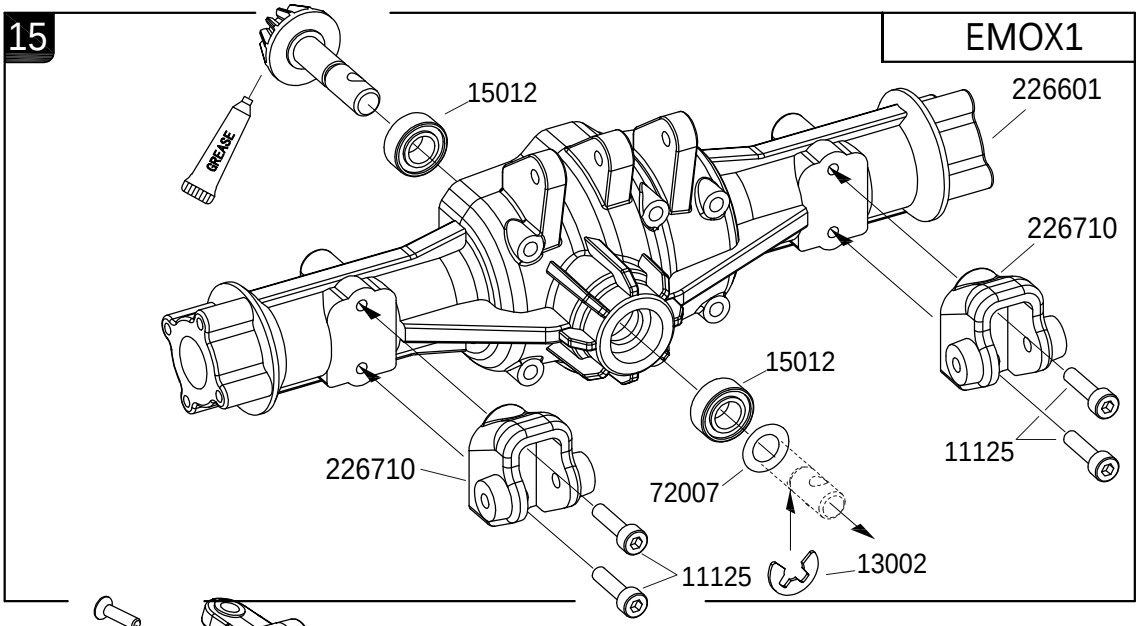
14

EMOX1



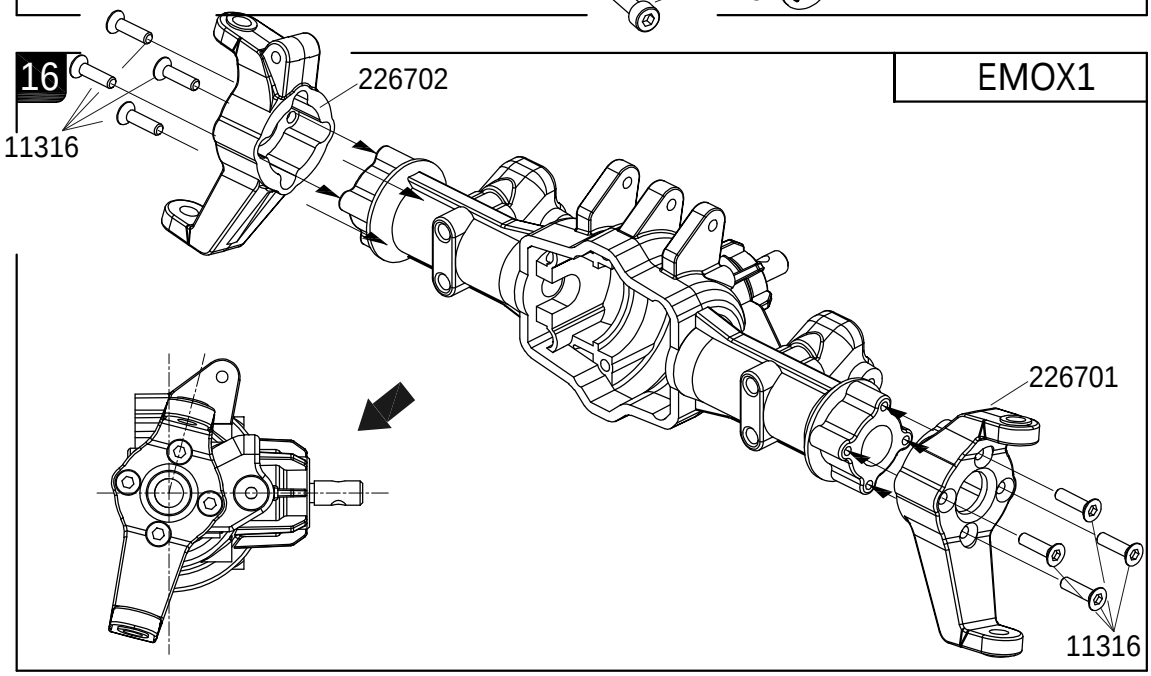
15

EMOX1



16

EMOX1



BAG(D)

11412 M3x3 X1

11125 M2.5x10 X6

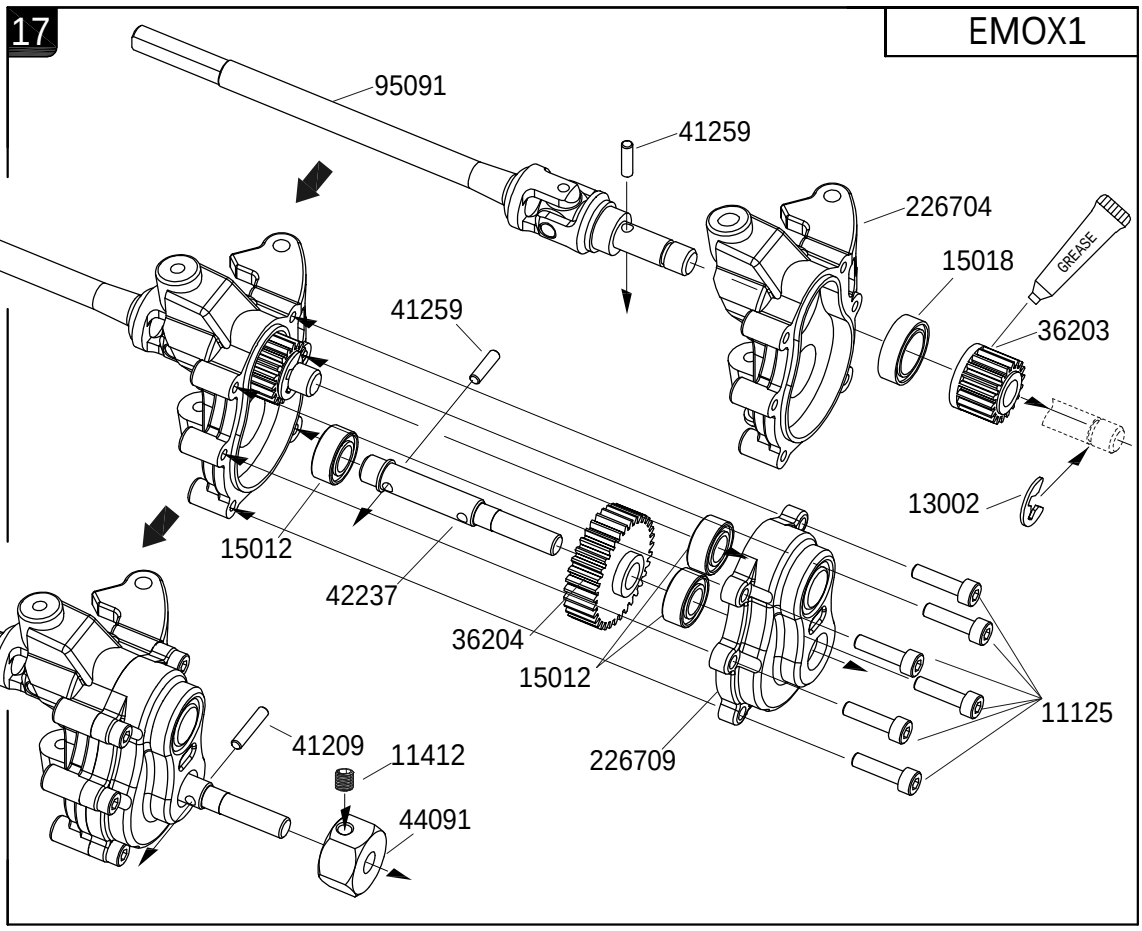
13002 Ø3.8xØ9.2x0.6 X1

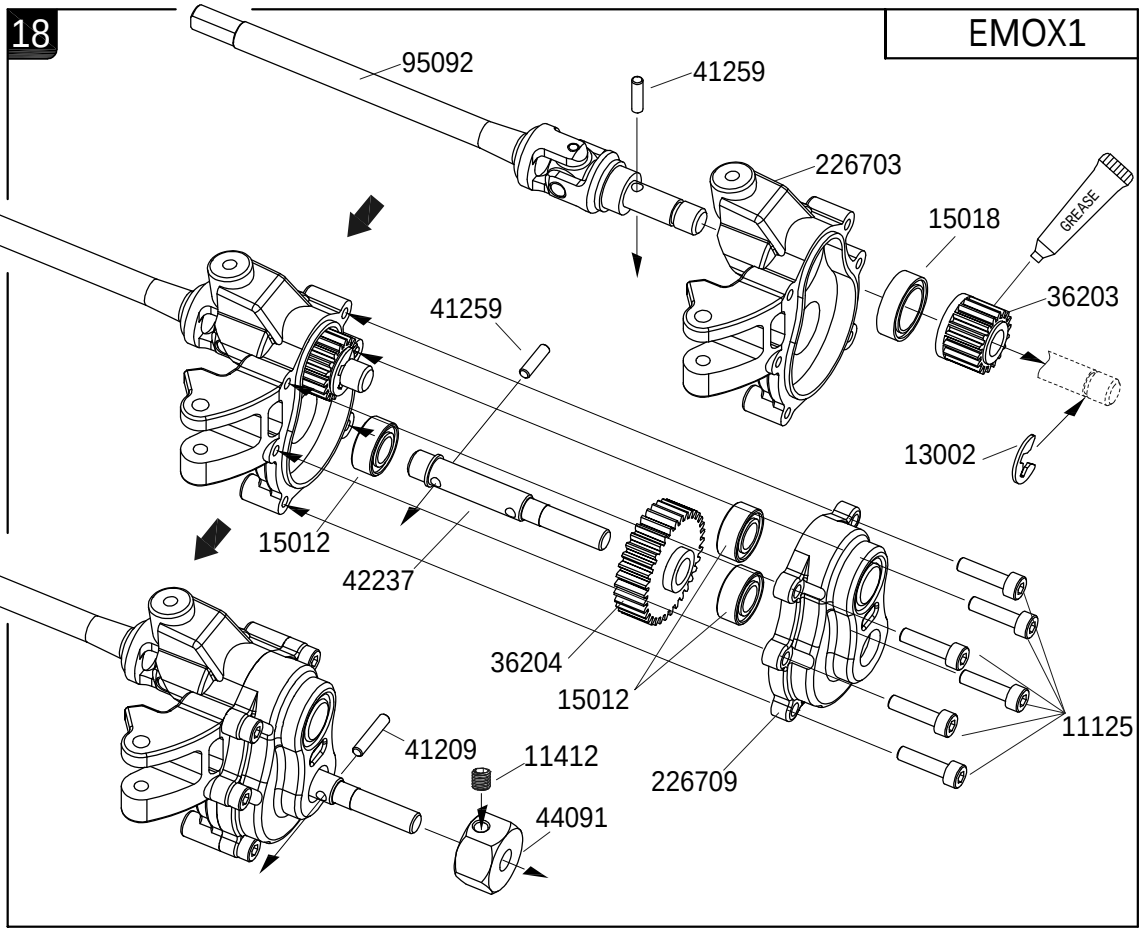
41259 Ø2x7.5 X1

41209 Ø2x10 X1

15012 Ø5xØ10x4 X3

15018 Ø8xØ12x3.5 X1





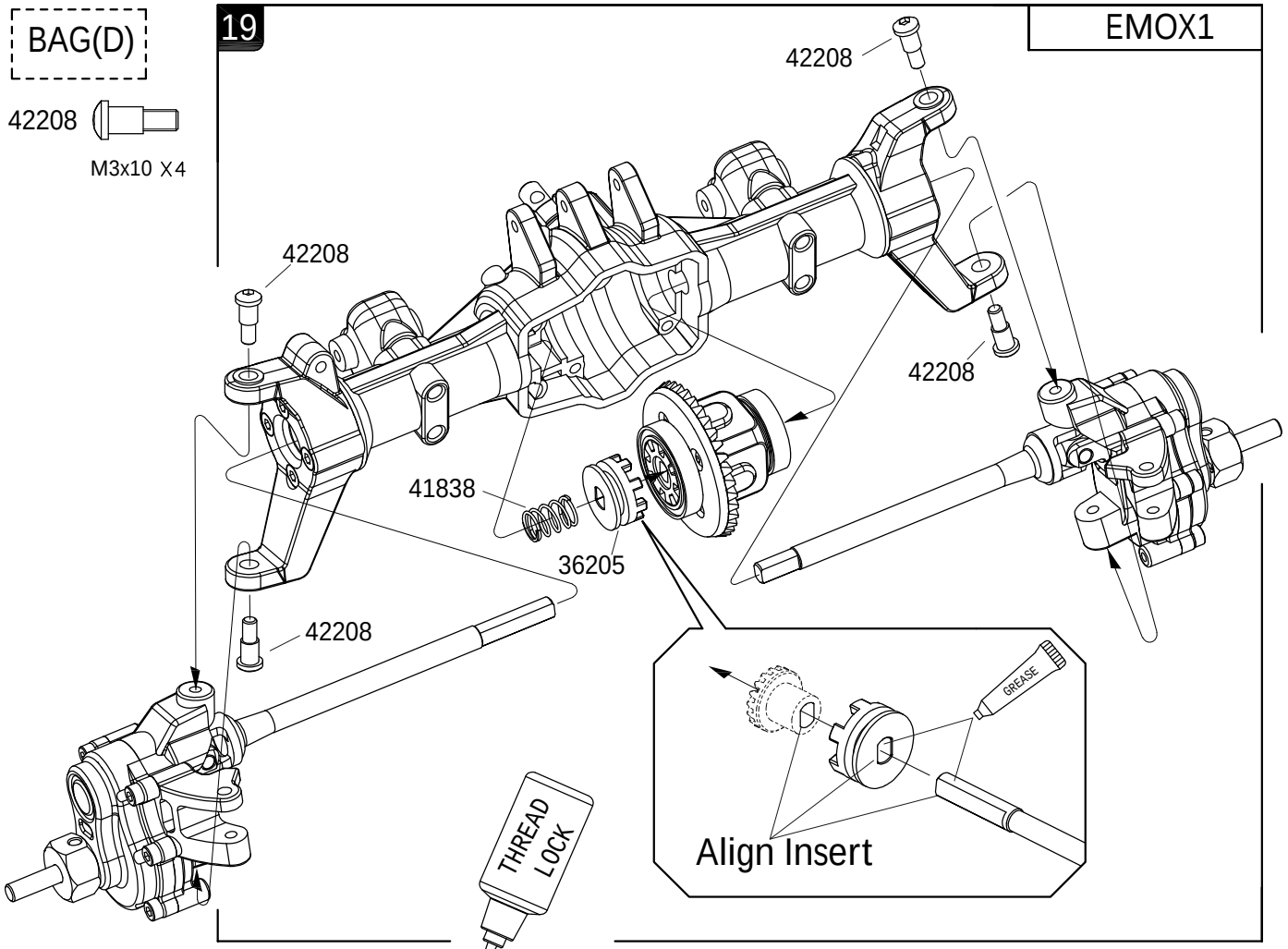
BAG(D)

42208

M3x10 X4

19

EMOX1



20

EMOX1

11401

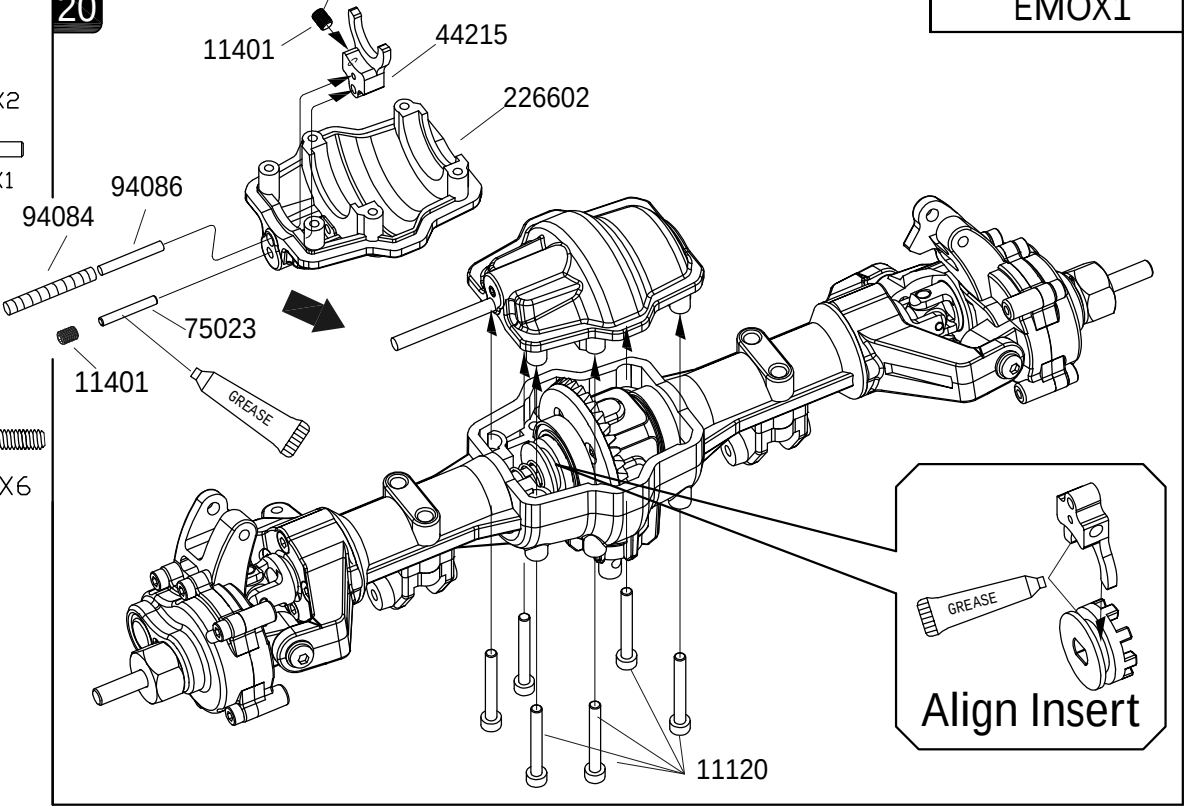
M3x4 X2

75023

Ø2x14 X1

11120

M2.5x20 X6



BAG(D)

15012

Ø5xØ10x4 X2

13002

Ø3.8xØ9.2x0.6 X1

72007

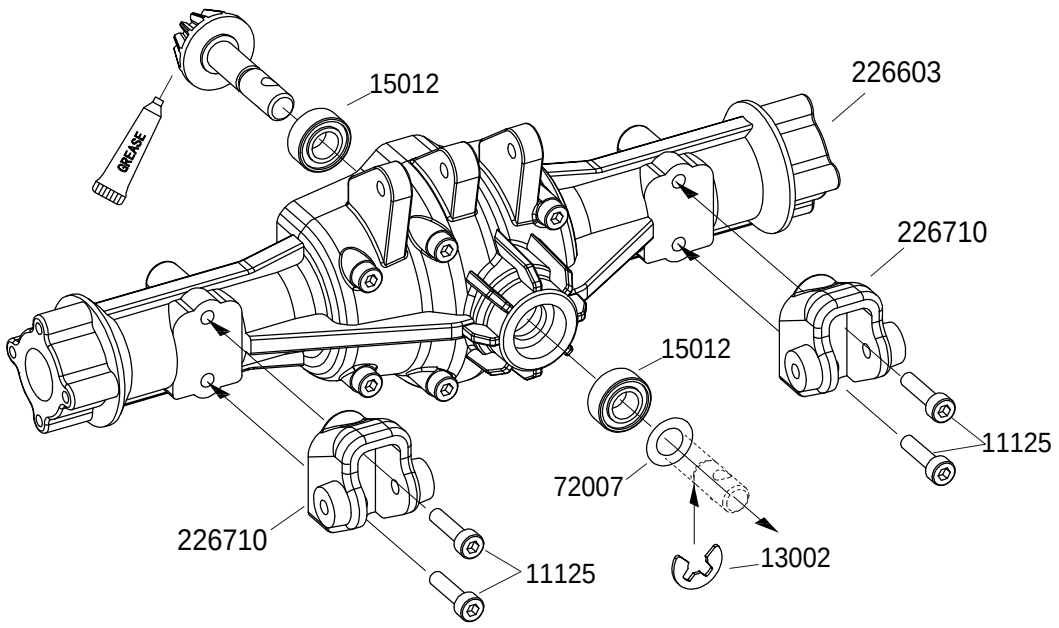
Ø5xØ8x0.3 X1

11125

M2.5x10 X4

21

EMOX1

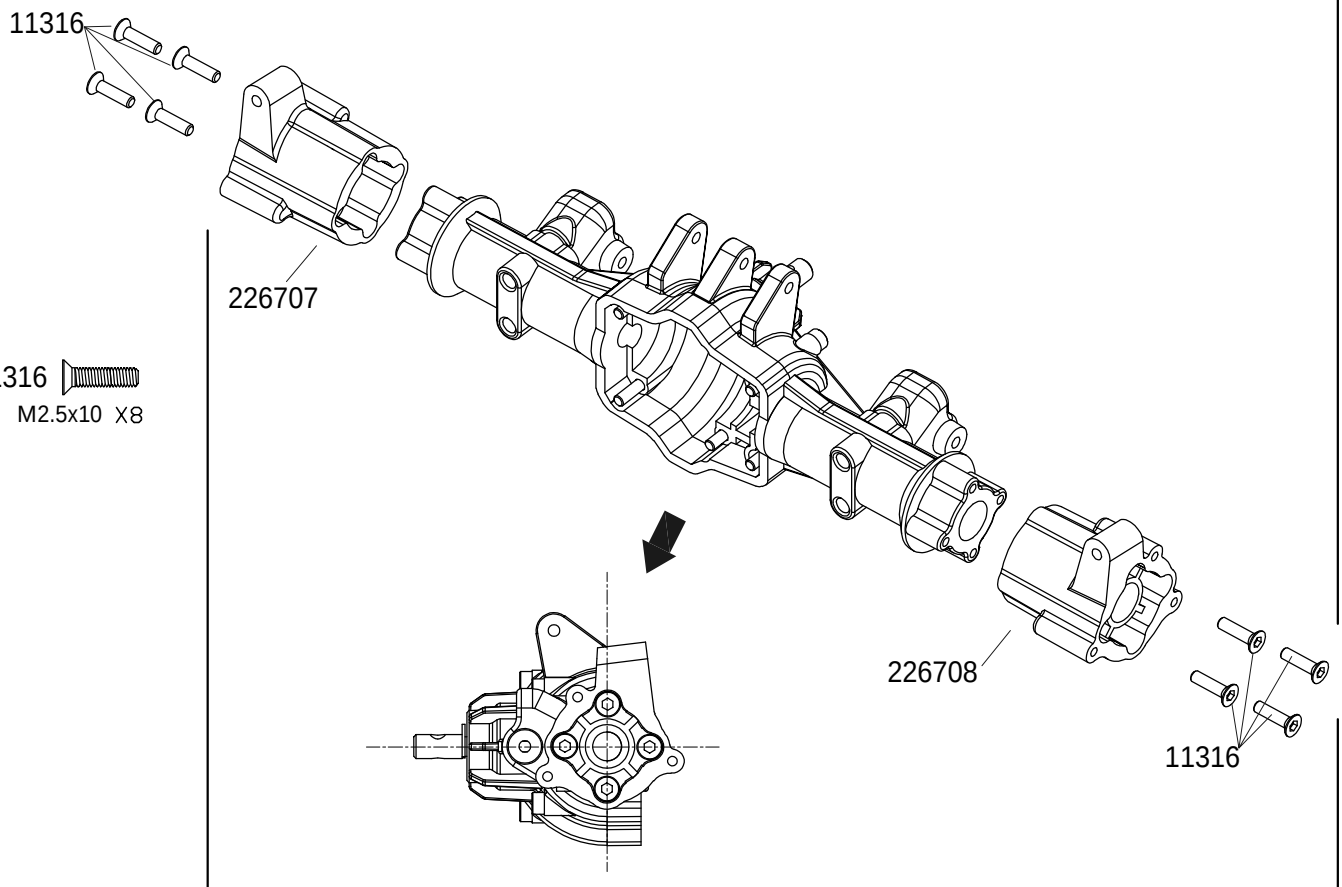


22

EMOX1

11316

M2.5x10 X8



BAG(D)

11412
M3x3 X1

15012
Ø5xØ10x4 X4

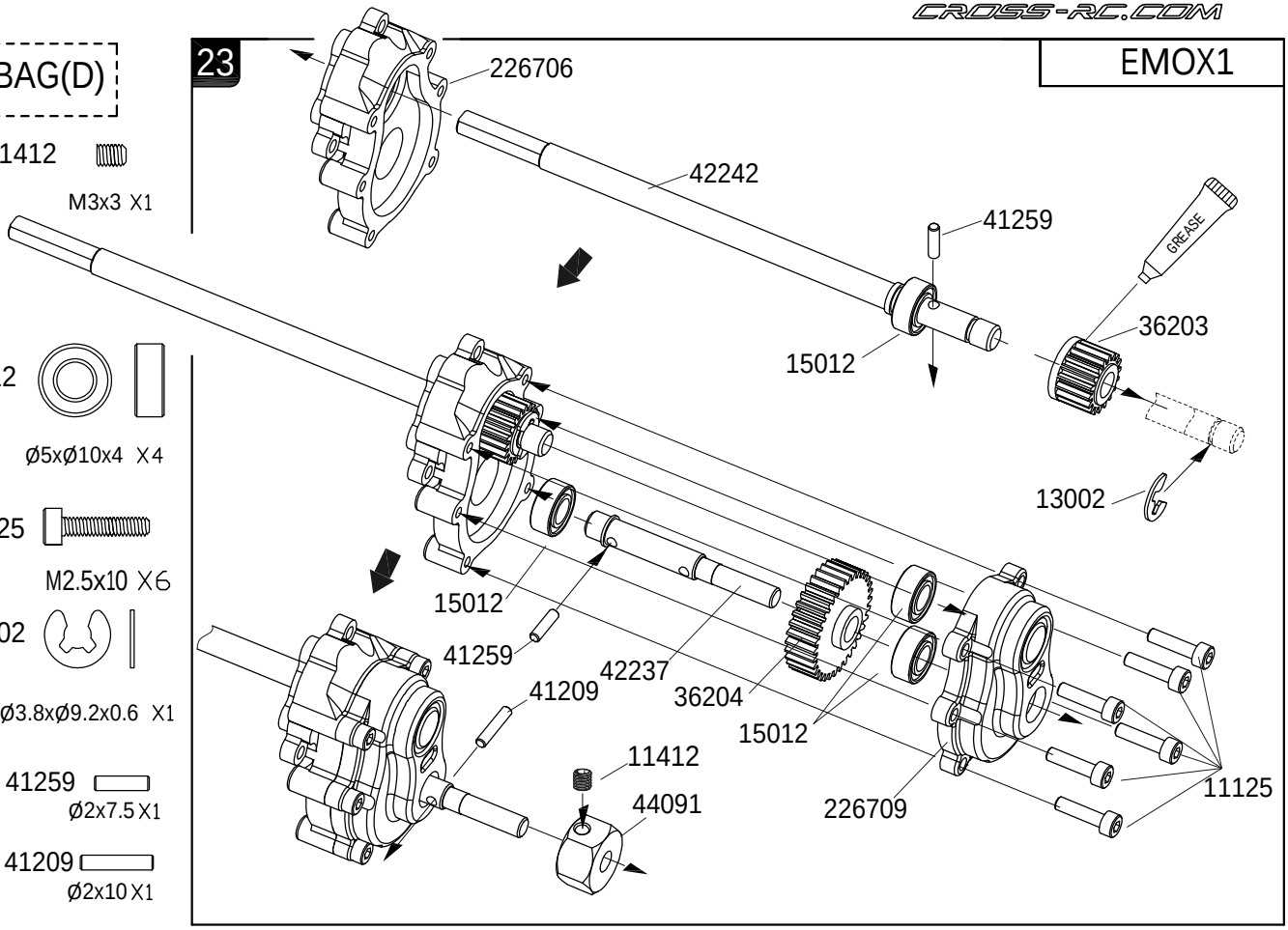
11125
M2.5x10 X6

13002
Ø3.8xØ9.2x0.6 X1

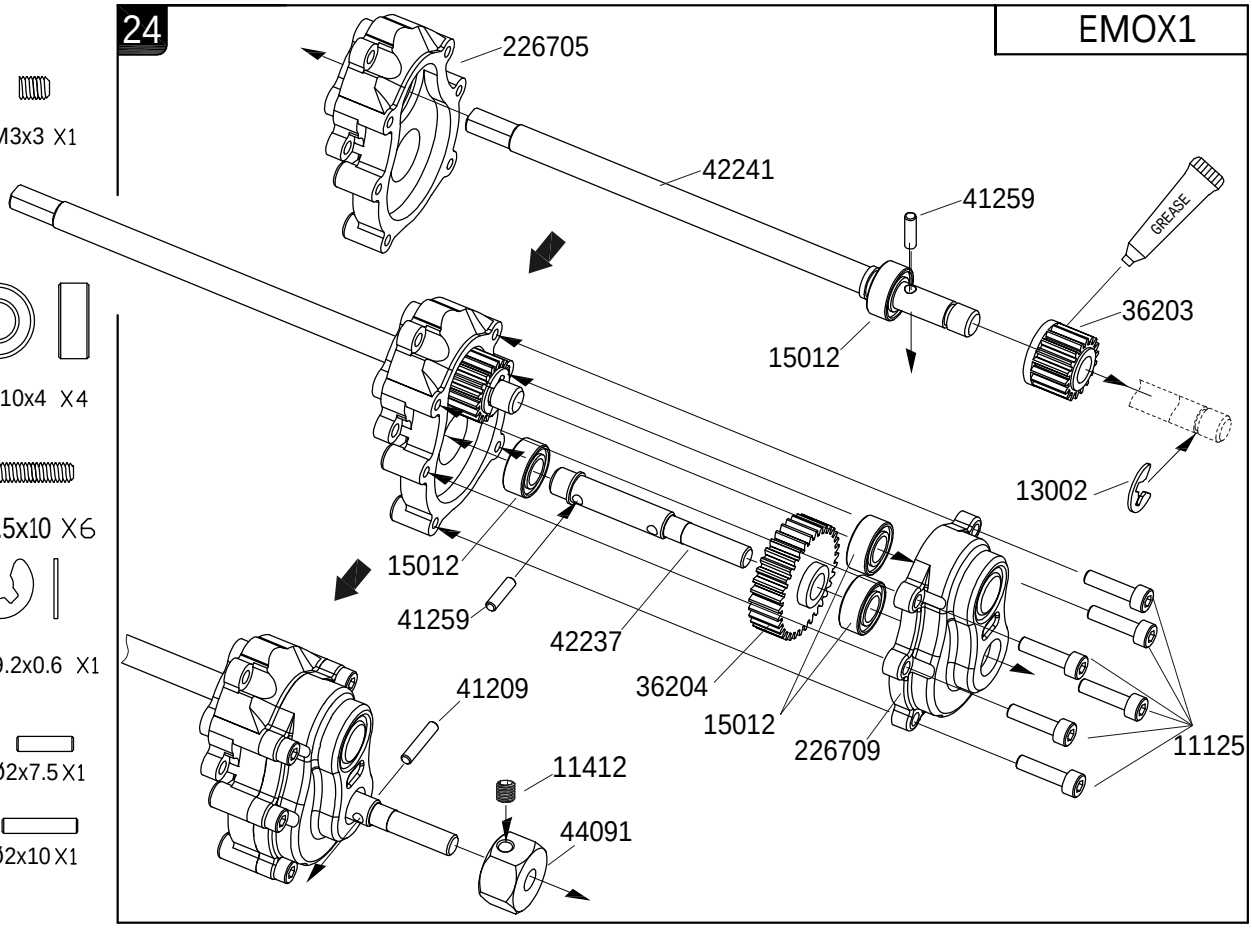
41259
Ø2x7.5 X1

41209
Ø2x10 X1

23 EMOX1



24 EMOX1



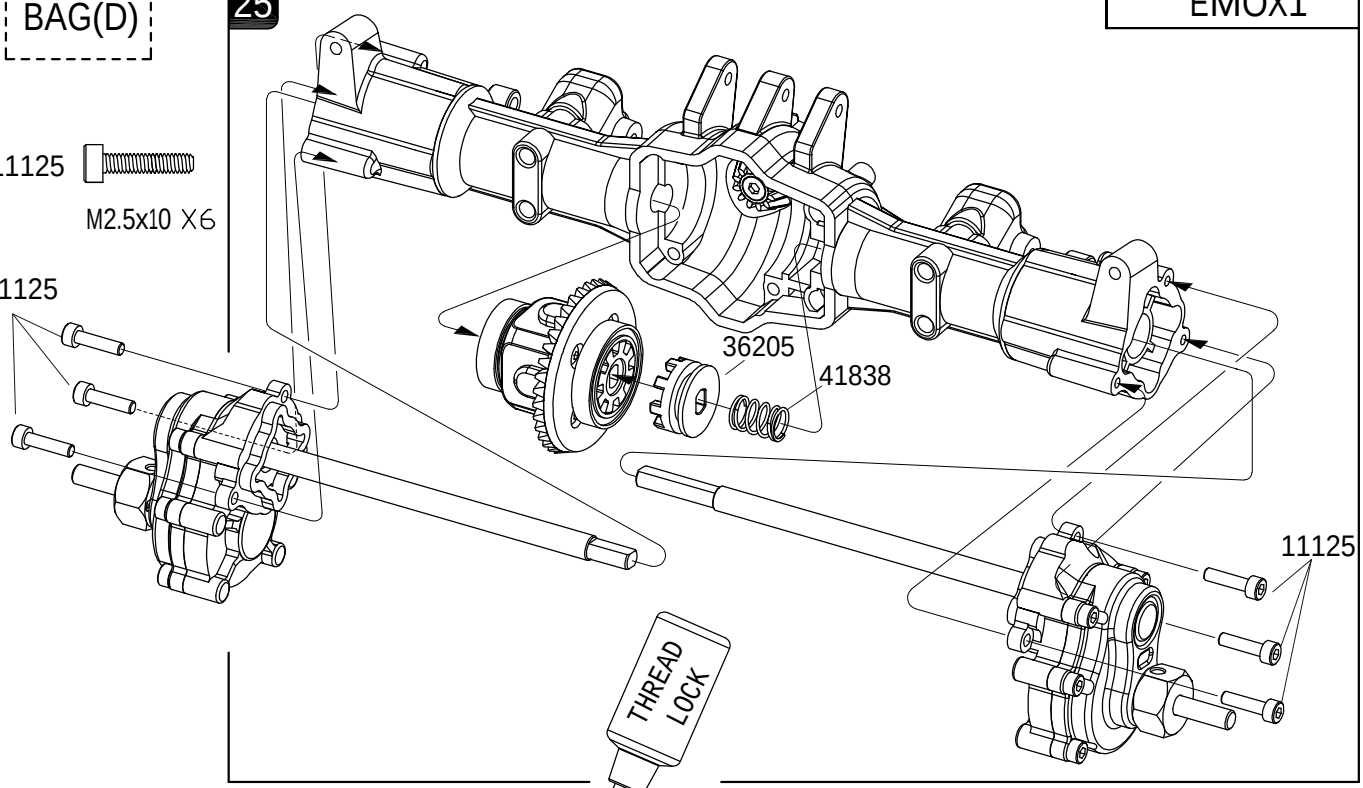
BAG(D)

11125
M2.5x10 X6

11125

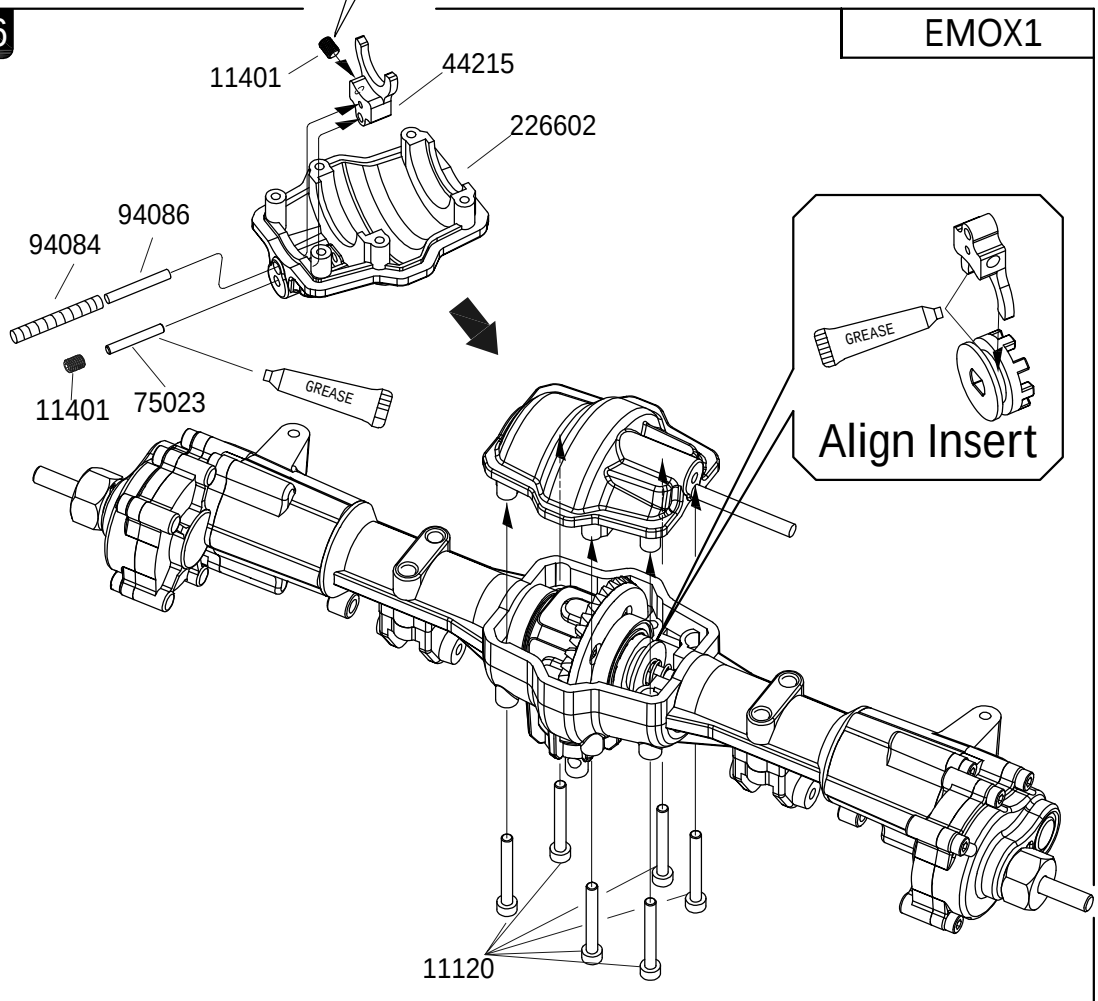
25

EMOX1



26

EMOX1



11401
M3x4 X2

75023
Ø2x14 X1

11120
M2.5x20 X6

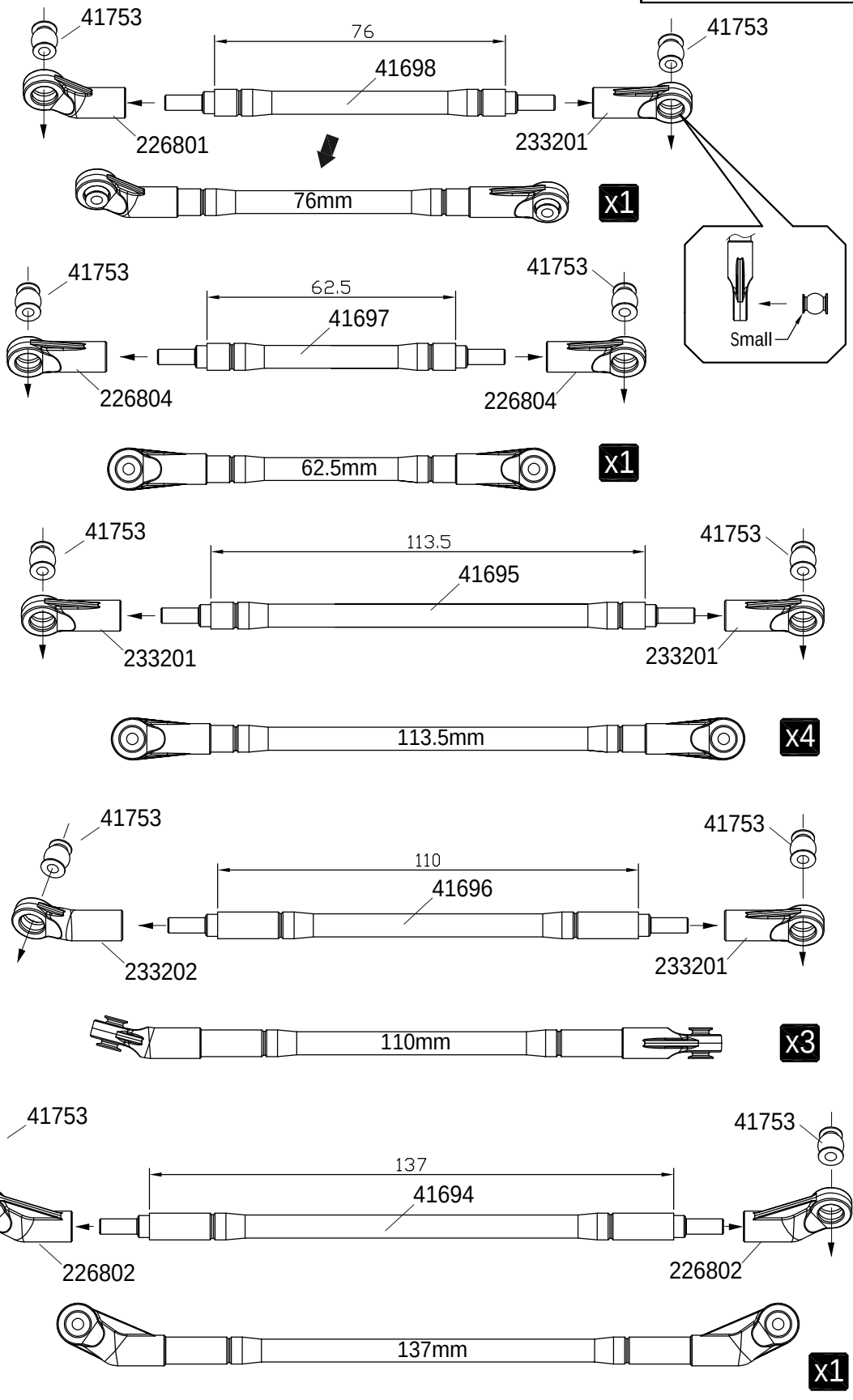
BAG(F)

BAG(G)

41753 X20

27

EMOX1



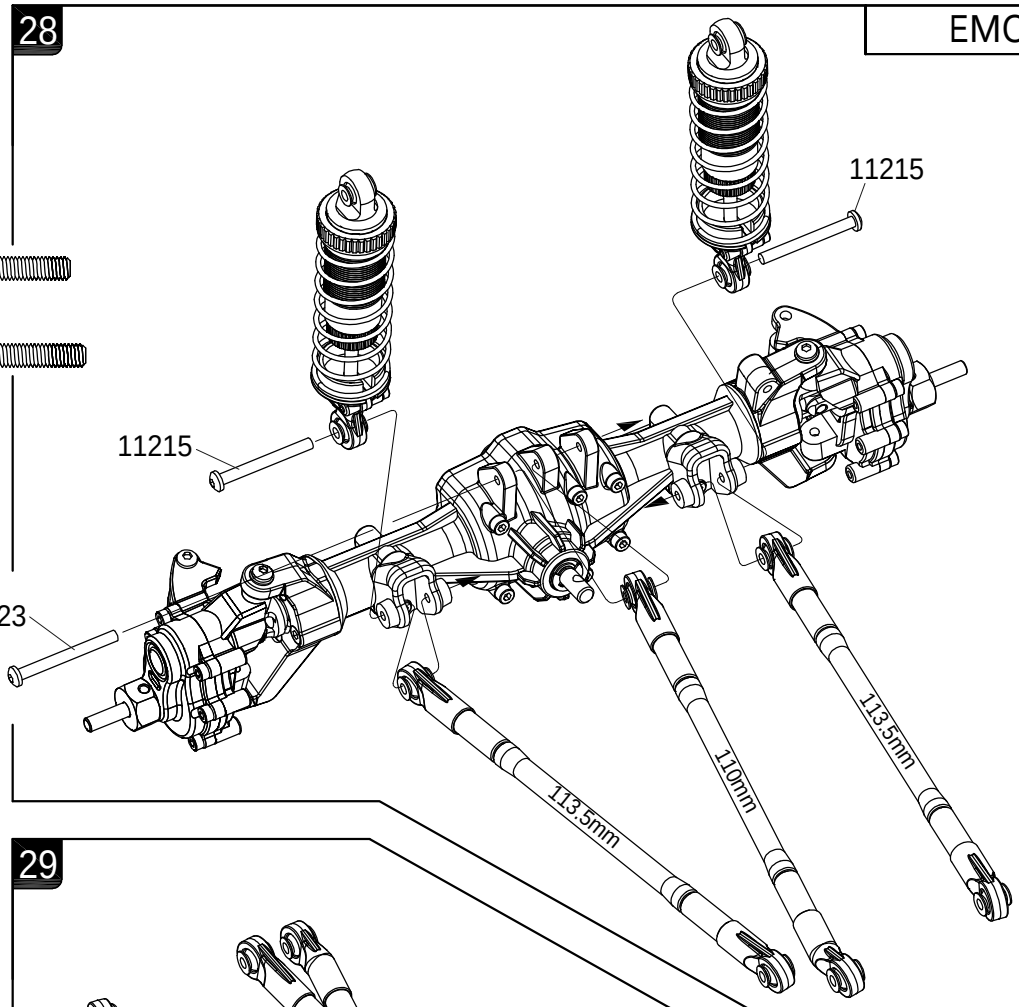
BAG(Y)

11215 M3x28 X2

11223 M3x30 X1

28

EMOX1



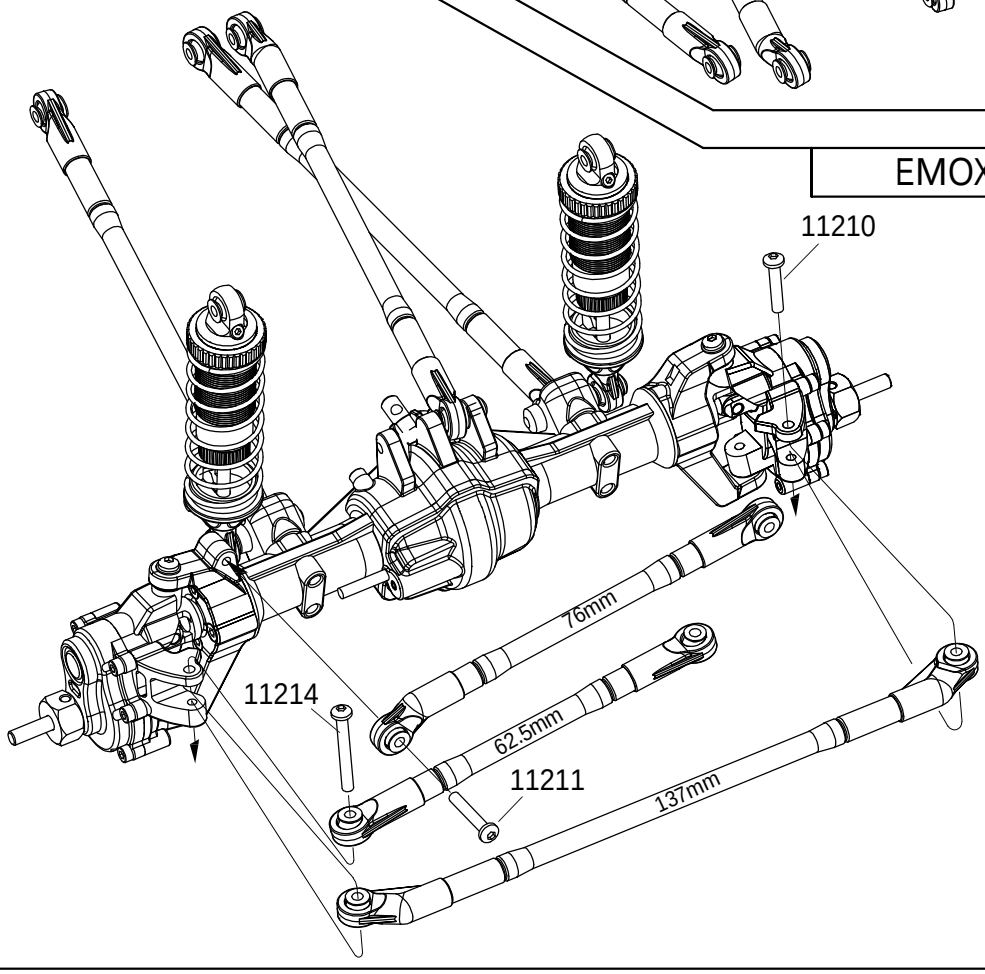
11210 M3x16 X1

11211 M3x18 X1

11214 M3x25 X1

29

EMOX1

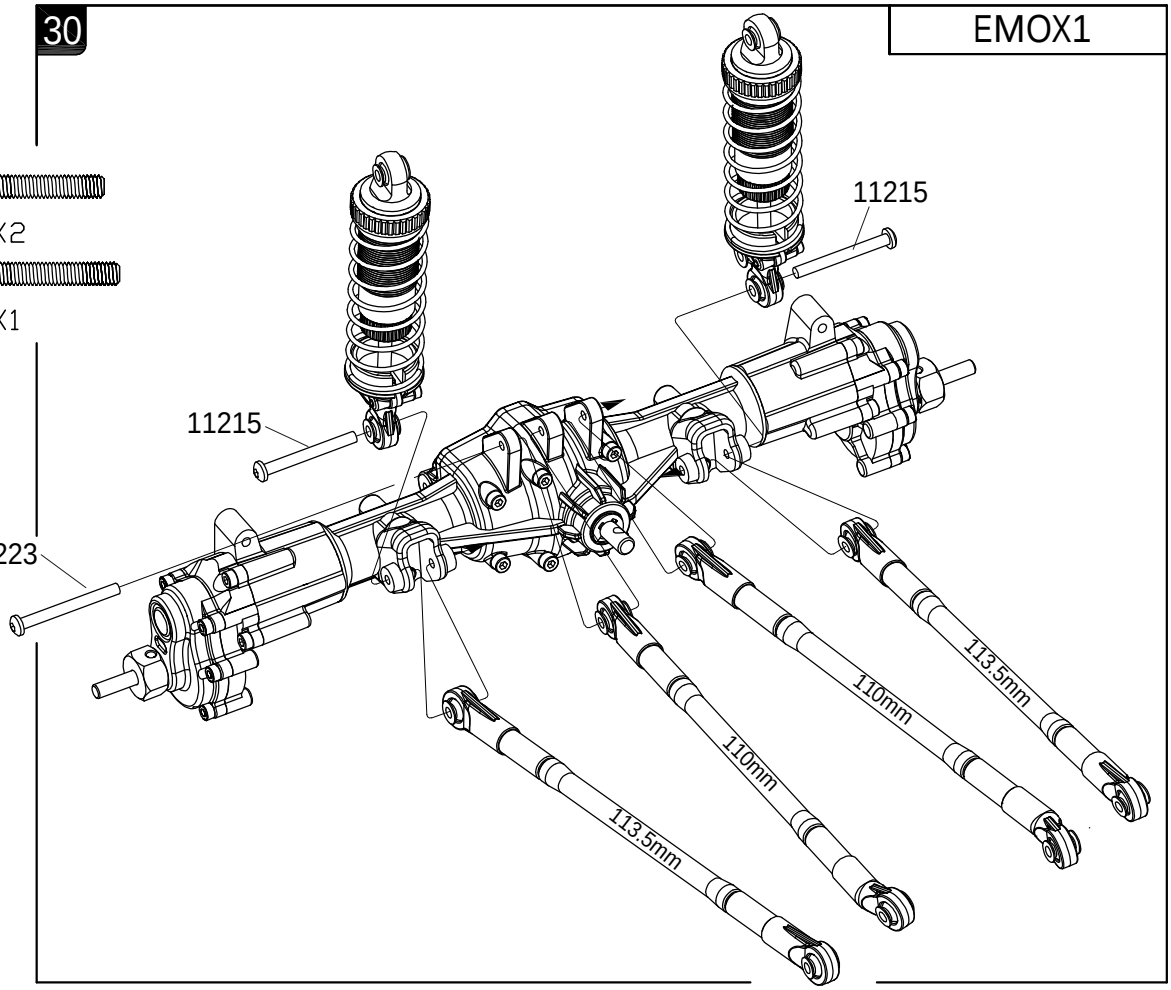


BAG(Y)

11215 M3x28 X2

11223 M3x30 X1

30 EMOX1

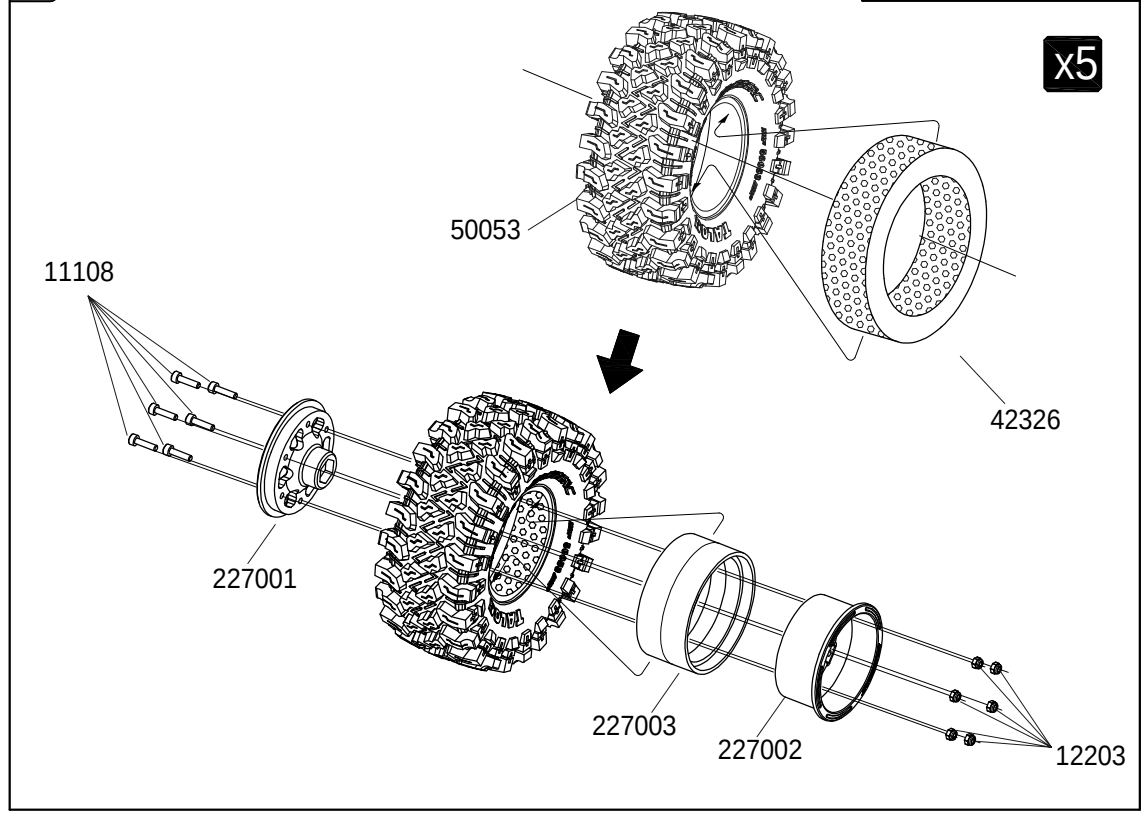


BAG(A)

11108 M3x12 X30

12203 M3 X30

31 EMOX1



32

EMOX1

BAG(Y)

11106 M3x8 X1

11210 M3x16 X1

11212 M3x20 X2

11214 M3x25 X2

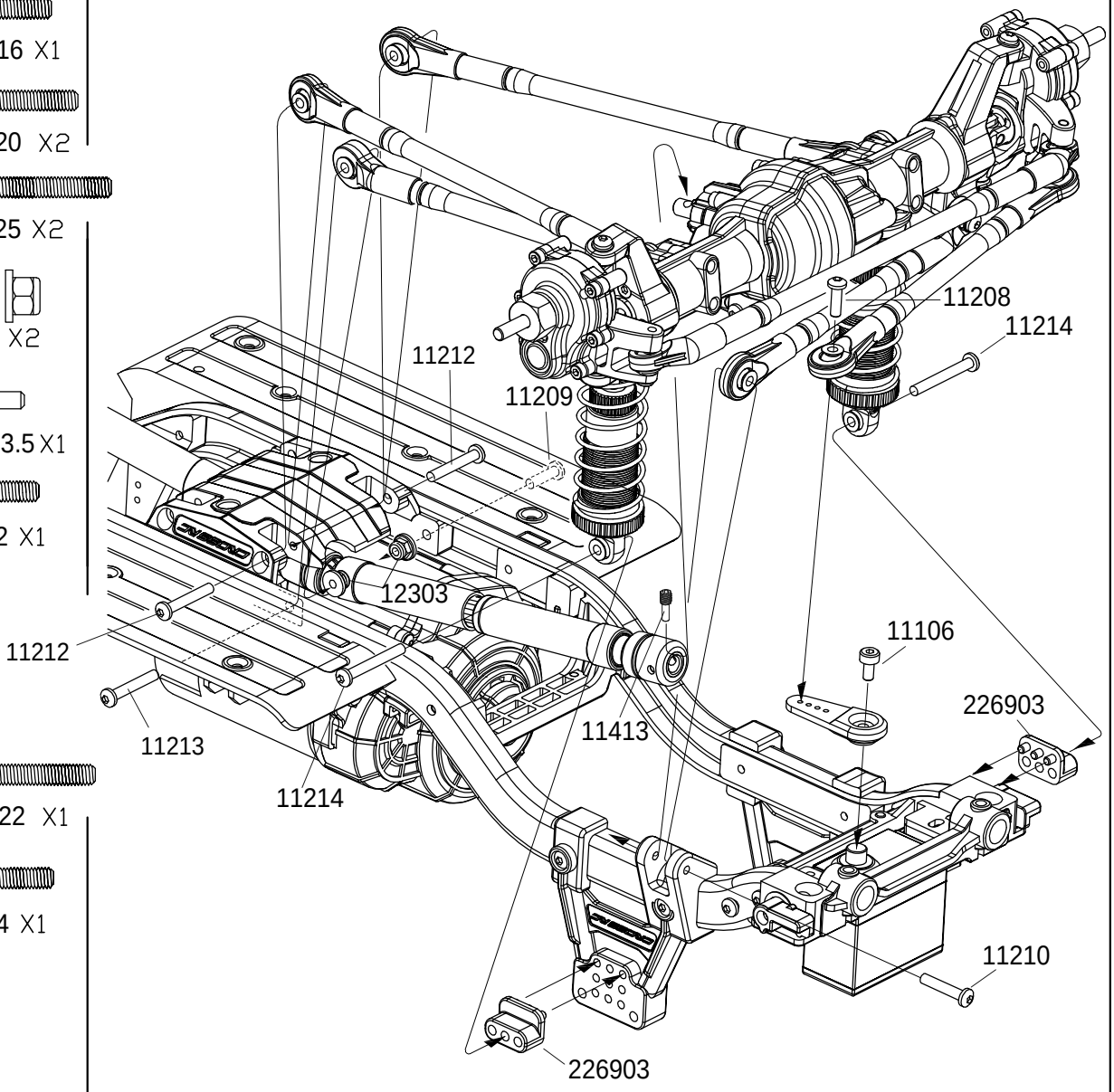
12307 M3 X2

11413 M4x13.5 X1

11208 M3x12 X1

11213 M3x22 X1

11209 M3x14 X1



33

EMOX1

BAG(Y)

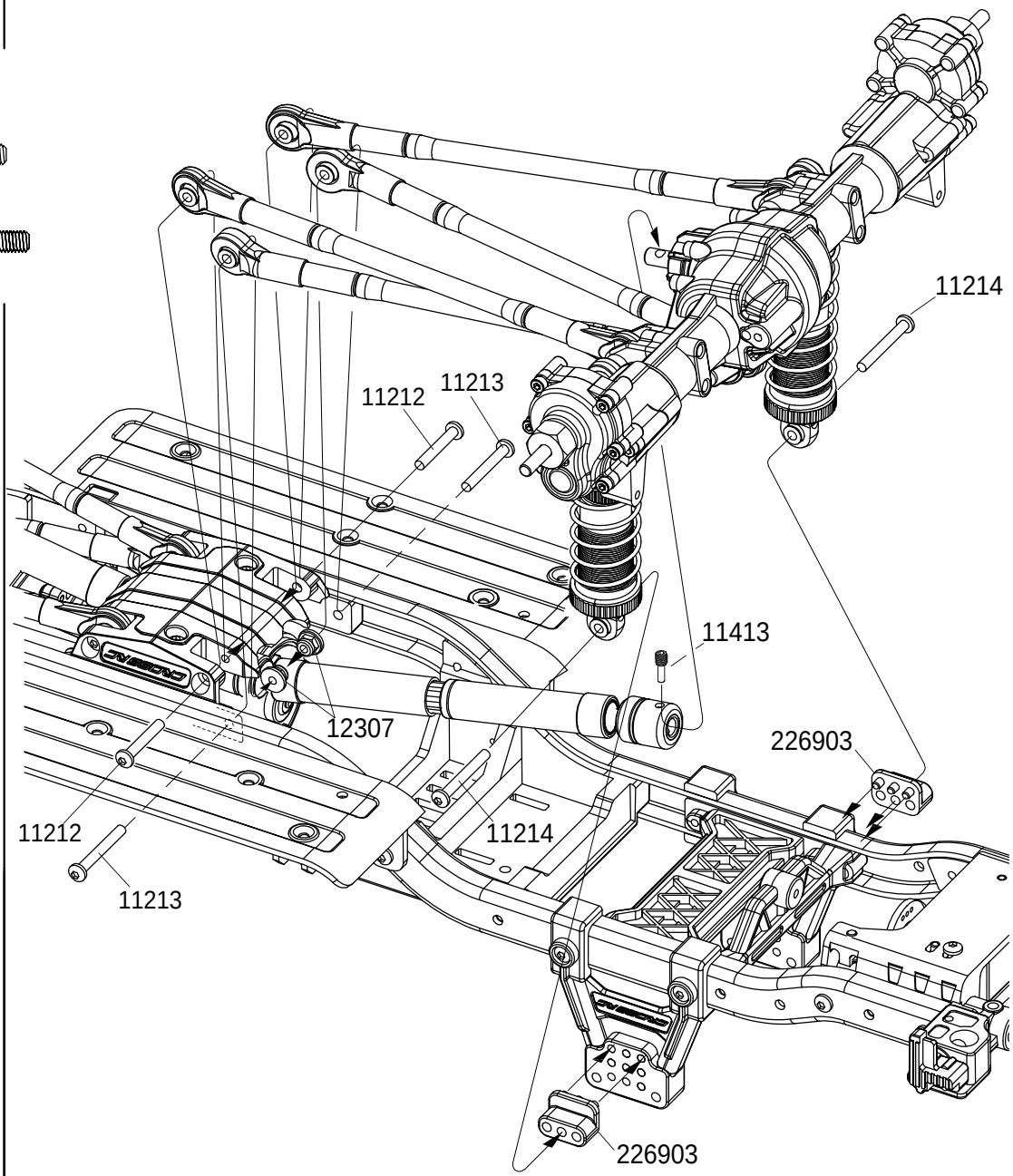
11212 M3x20 X2

11213 M3x22 X2

11214 M3x25 X2

12307 M3 X2

11413 M4x13.5 X1

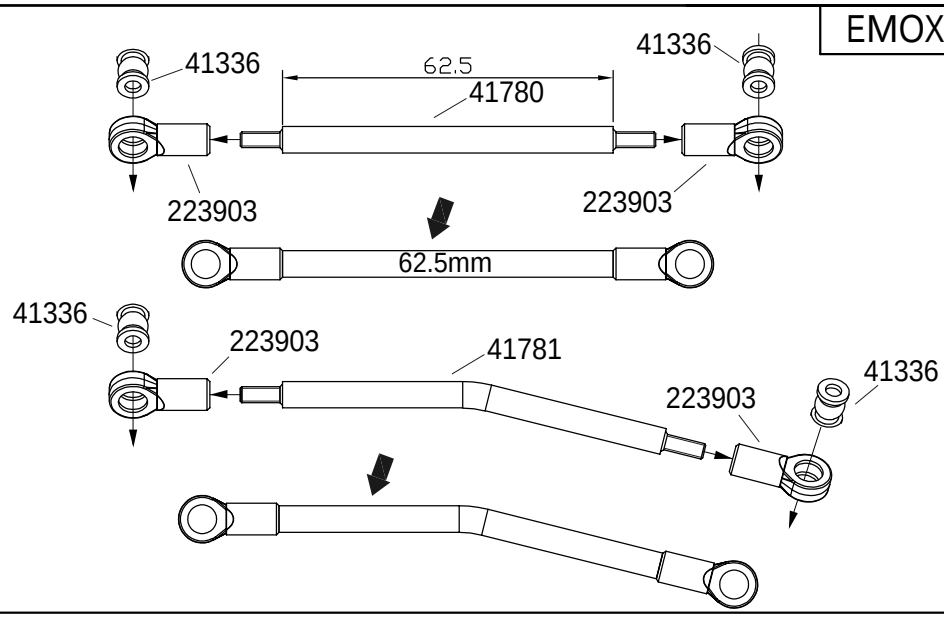


BAG(W)

41336 X4

34

EMOX1



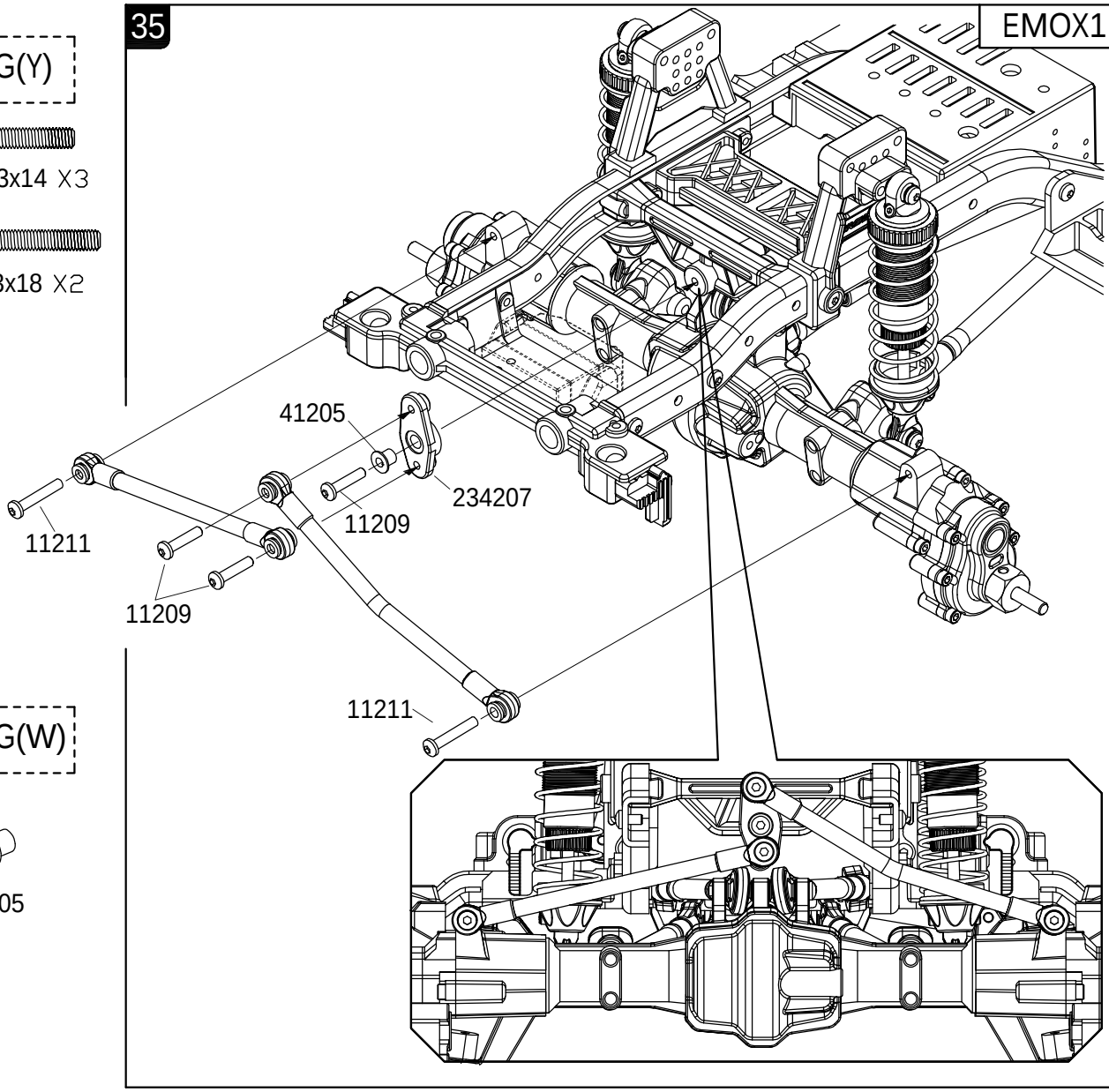
BAG(Y)

11209 M3x14 X3

11211 M3x18 X2

35

EMOX1



BAG(W)

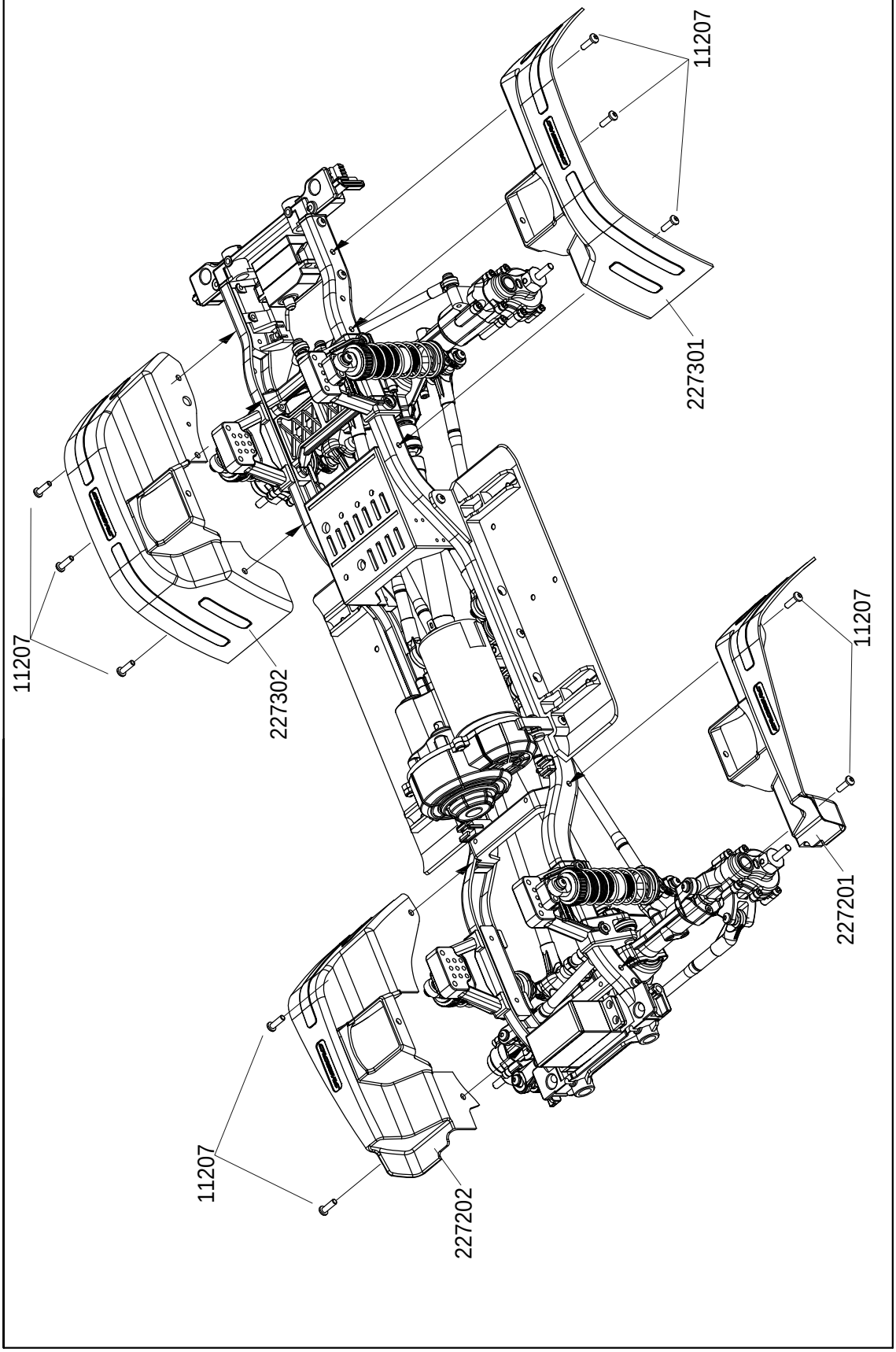
41205

36

EMOX1

BAG(Y)

11207 M3x10 X10



37

EMOX1

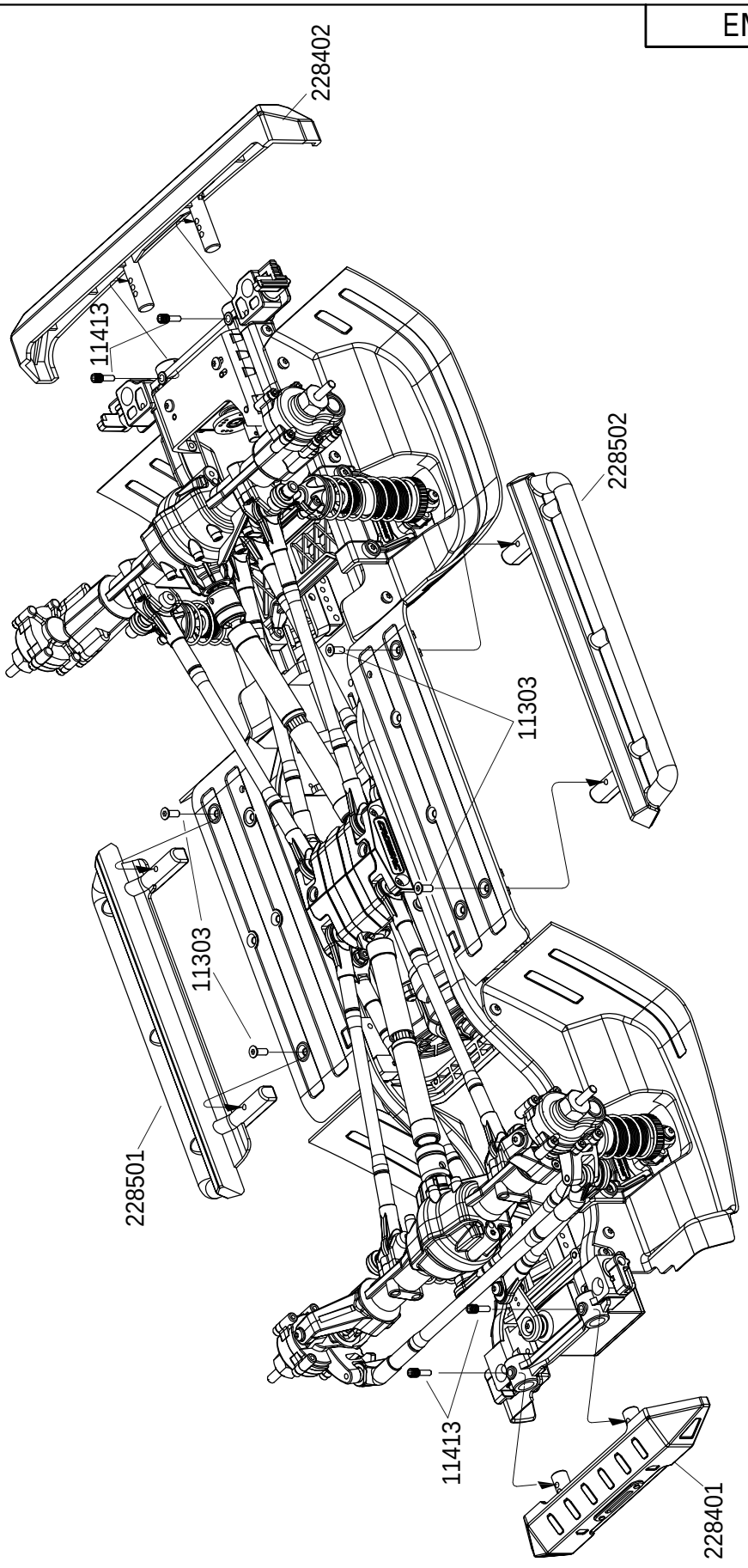
BAG(Y)

11303

M3x8 X4

11413

M4x13.5 X4



38

EMOX1

BAG(Y)

11239 M3x8 X10

BAG(Z)

11227 M2.5x8 X2

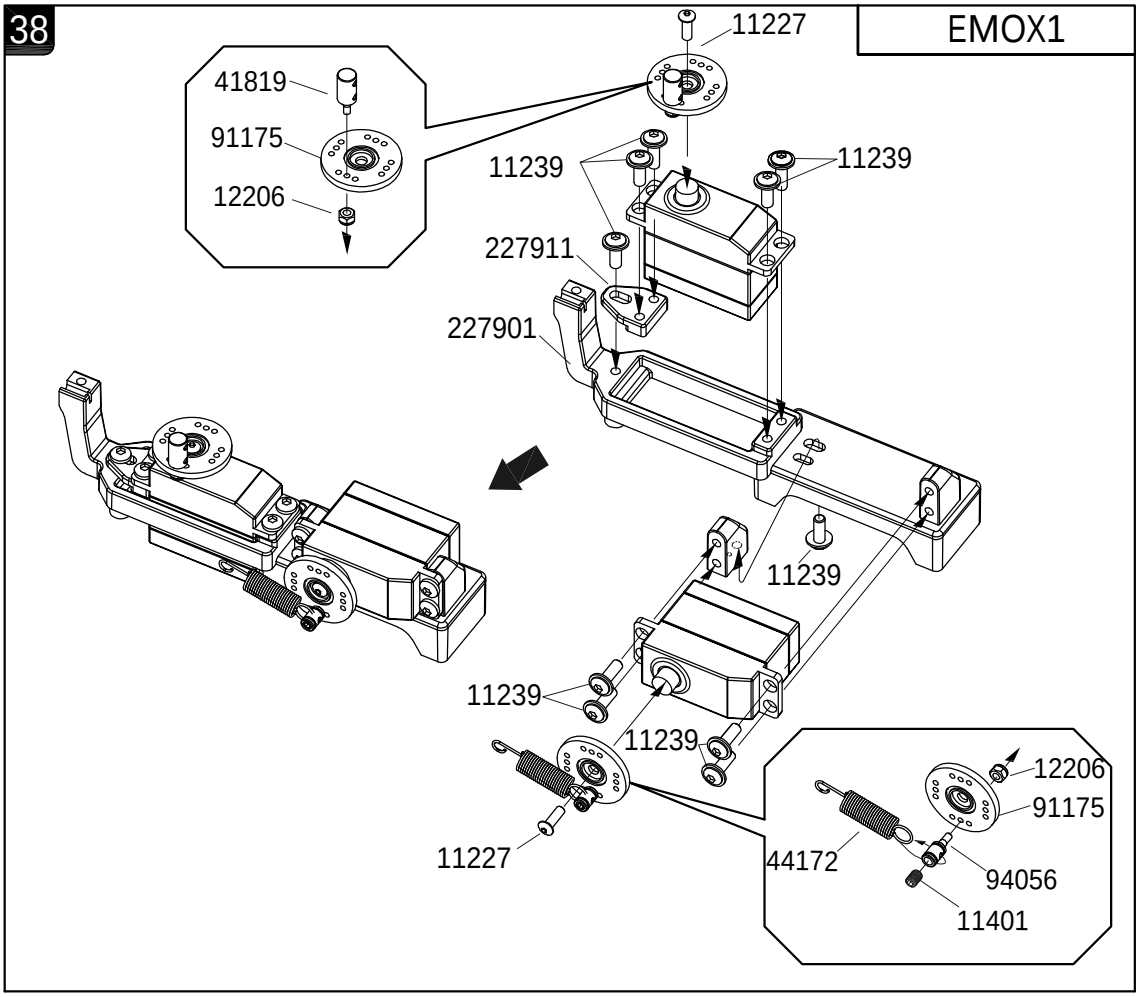
12206 M2 X2

11401 M3x4 X1

44172 X1

41819 X1

94056 X1



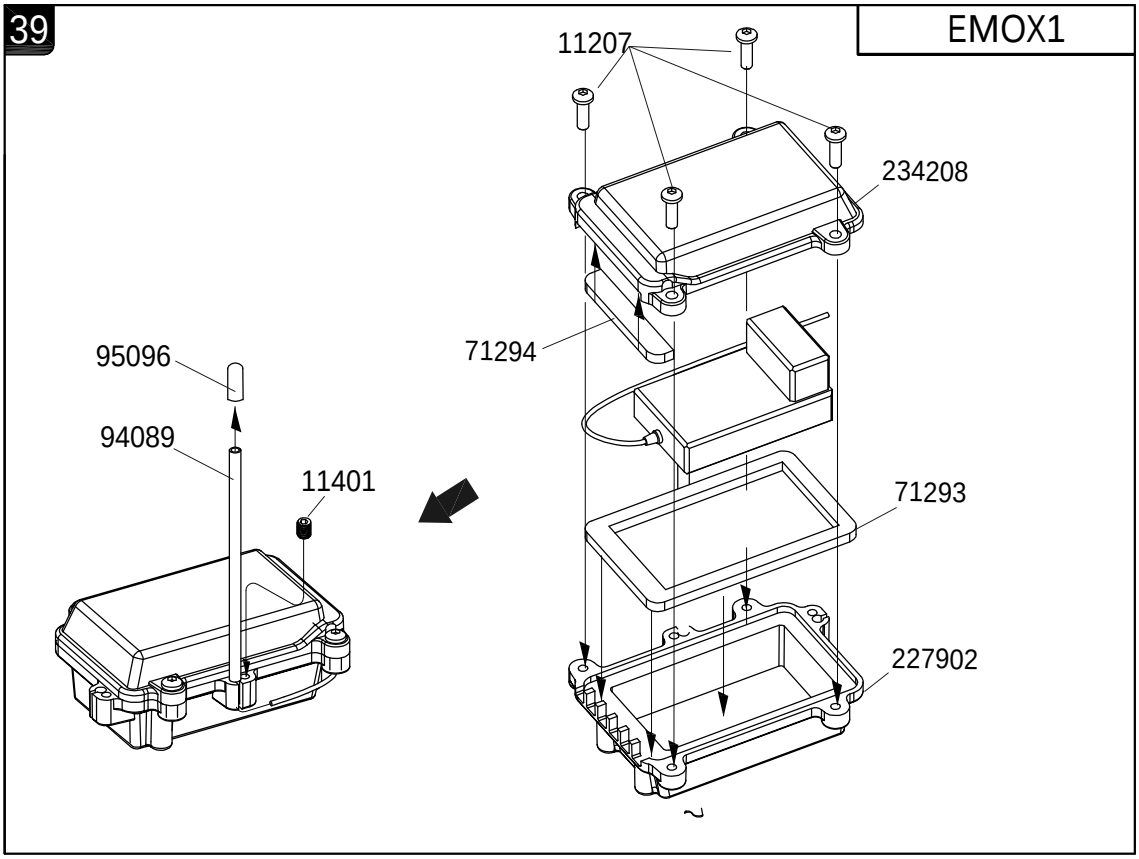
39

EMOX1

BAG(Y)

11401 M3x4 X1

11207 M3x10 X4

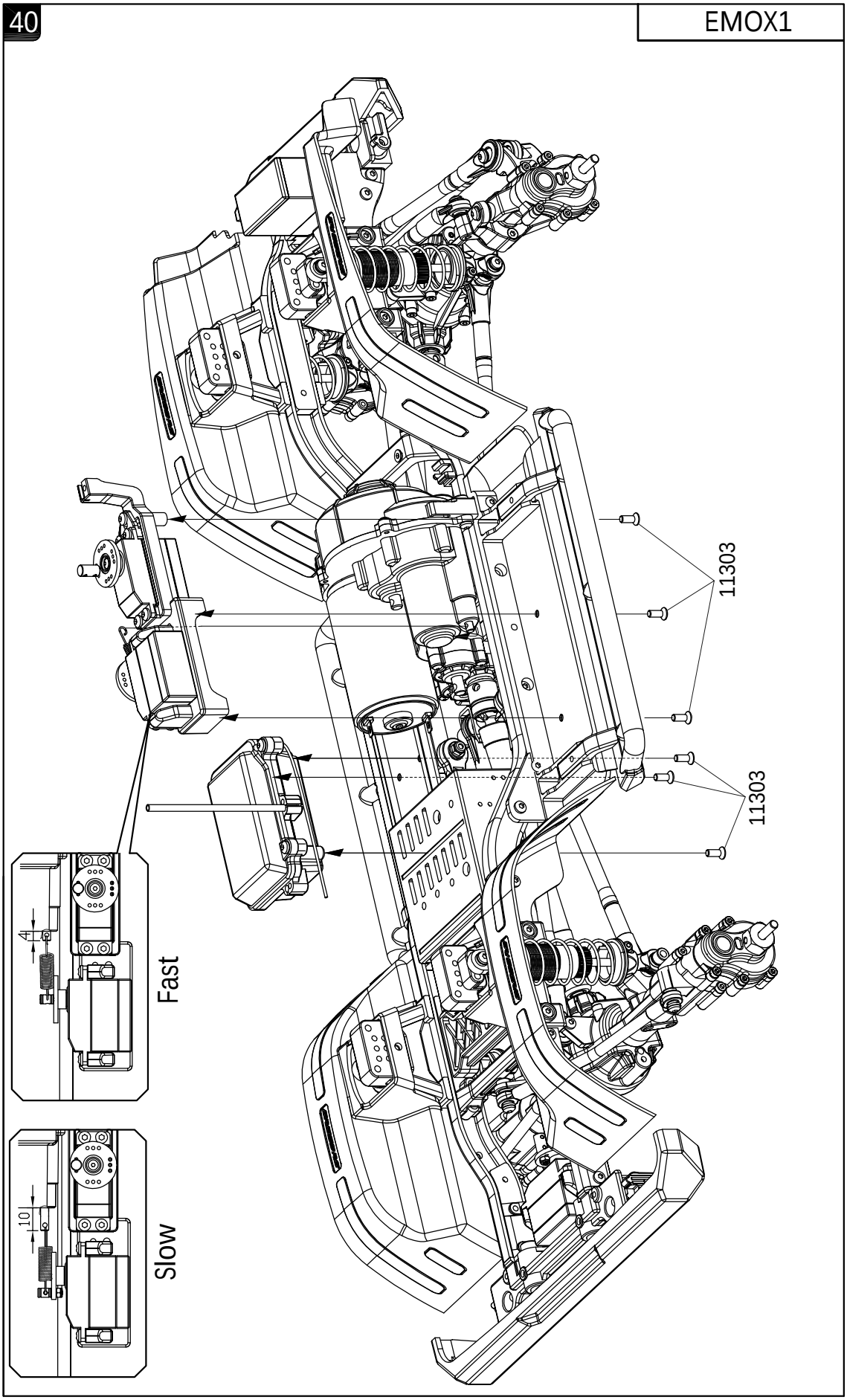


40

EMOX1

BAG(Y)

11303 M3x8 X6



41

EMOX1

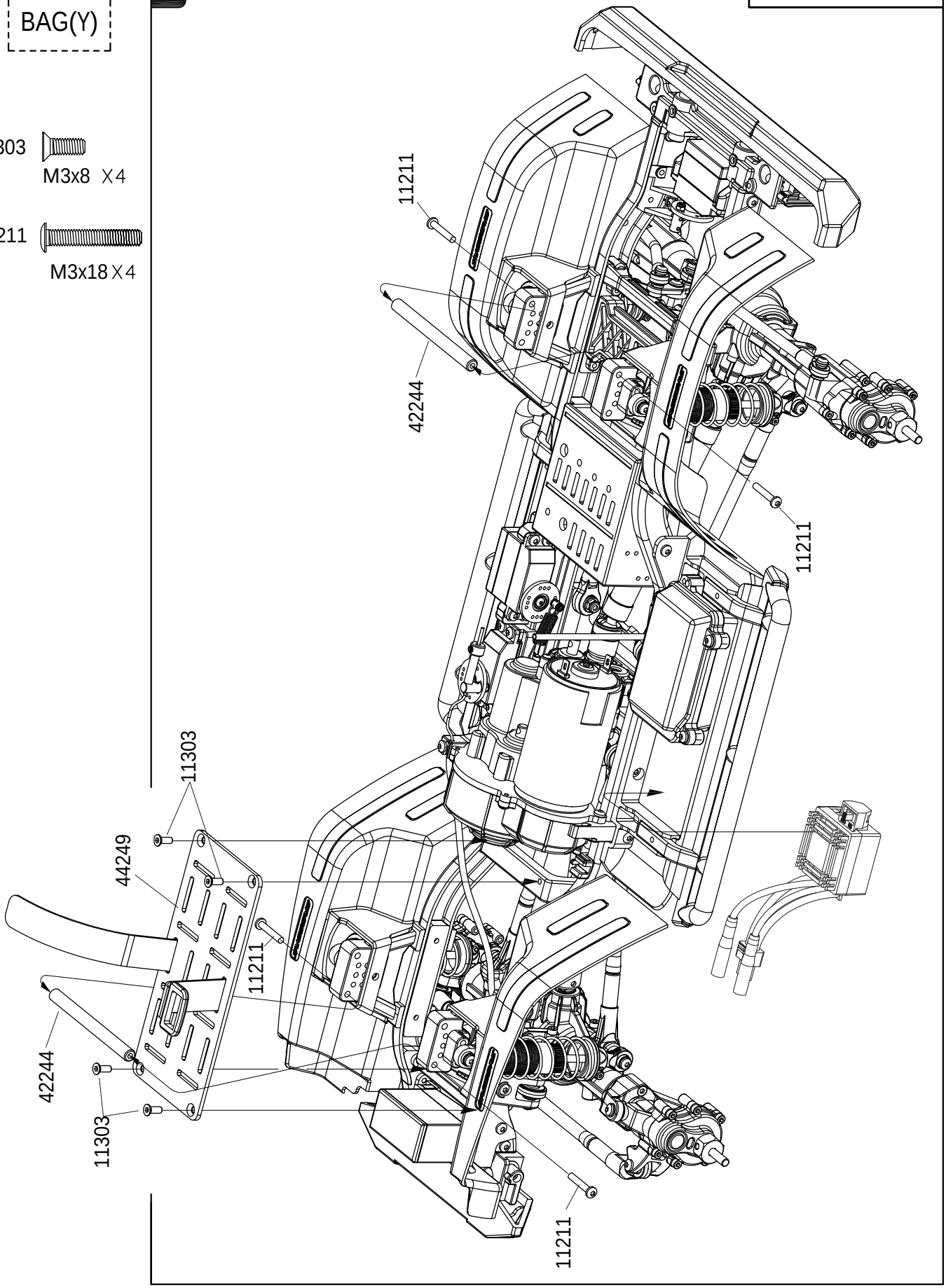
BAG(Y)

11303

M3x8 X4

11211

M3x18 X4



42

EMOX1

BAG(Y)

11239 M3x8 X1

BAG(Z)

11401 M3x4 X2

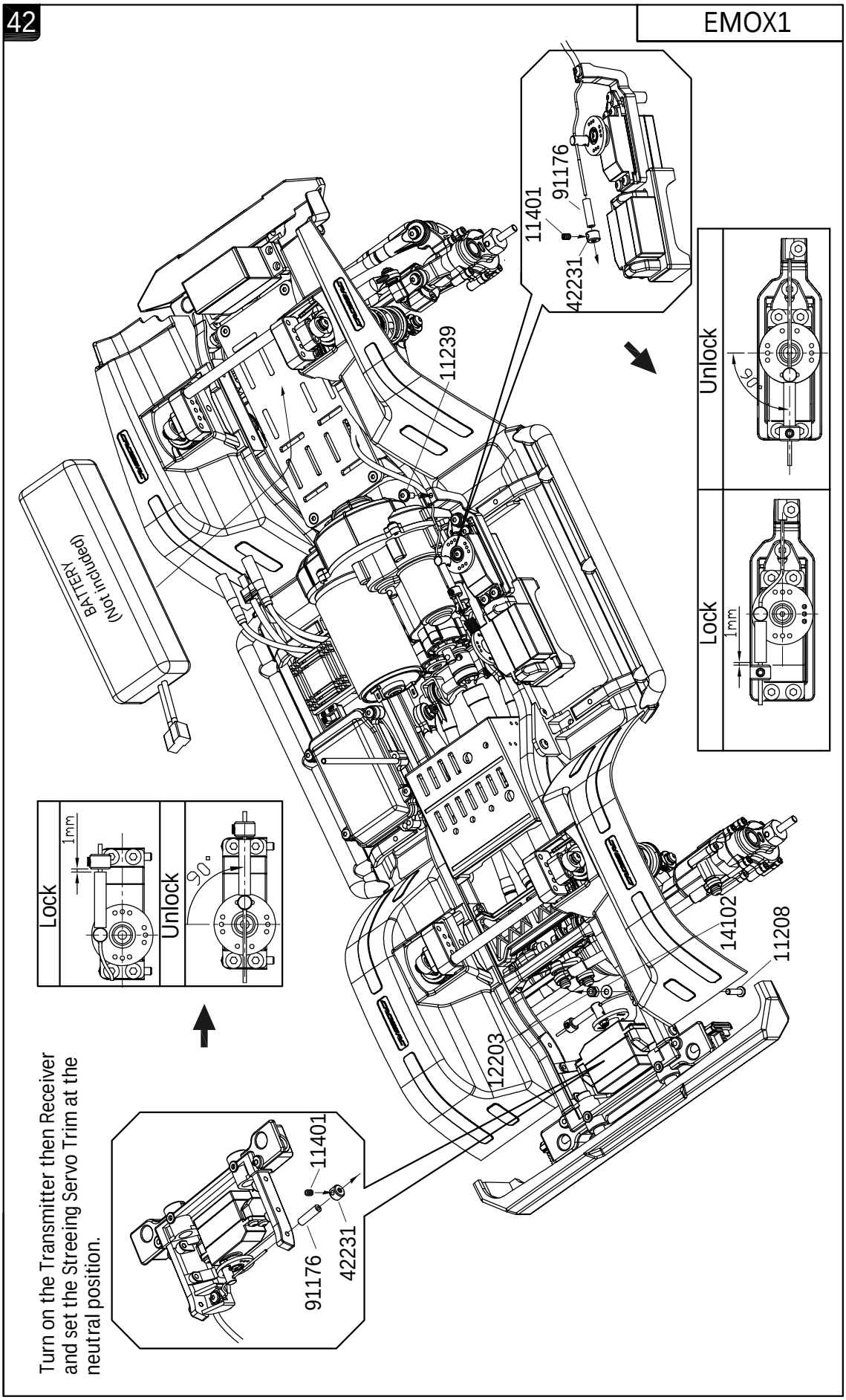
42231 X2

91176 X2

14102 Ø3xØ7x0.5 X1

12203 M3 X1

11208 M3x12 X1



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

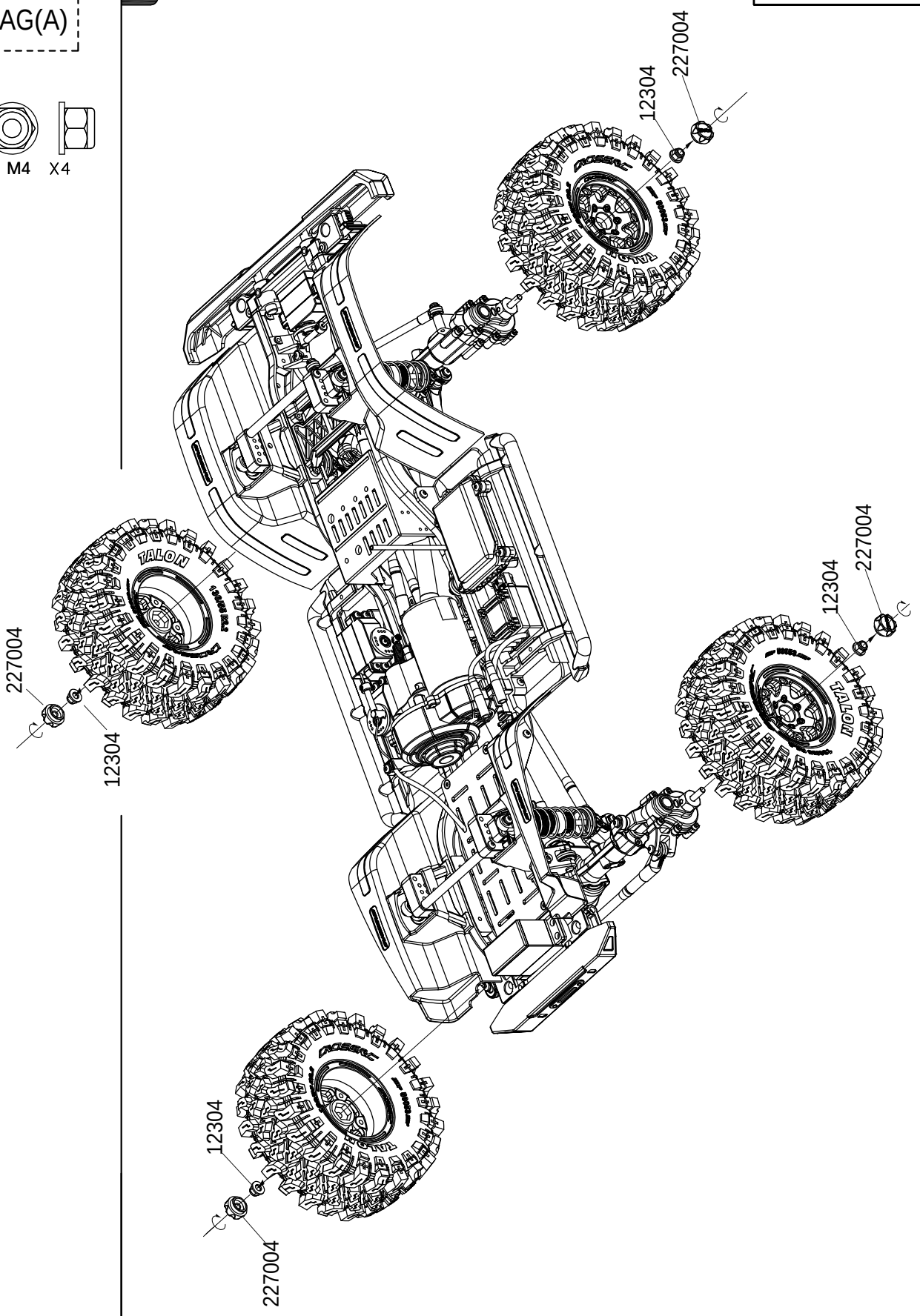
43

EMOX1

BAG(A)

12304

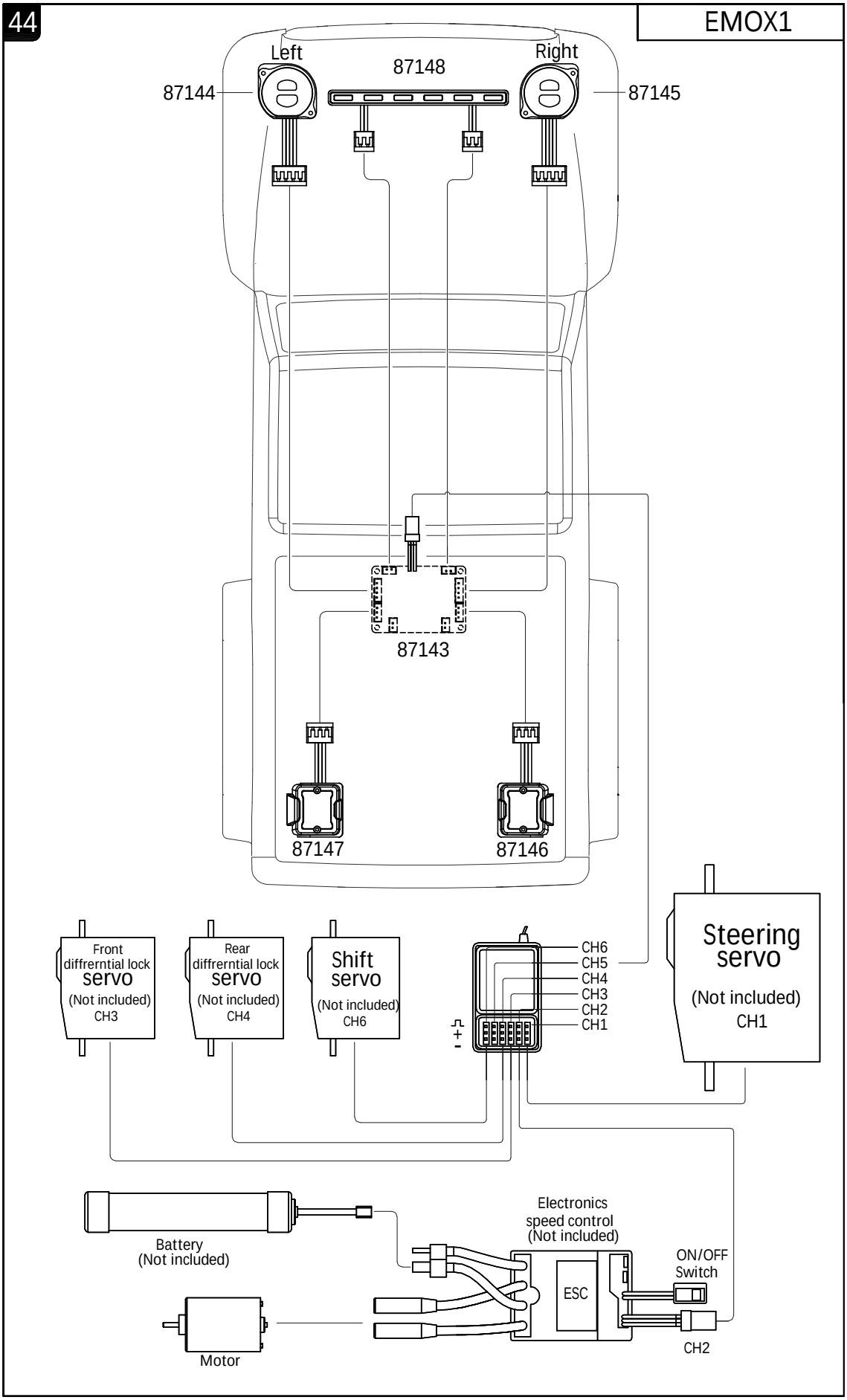
M4 X4



BAG(V)

44

EMOX1

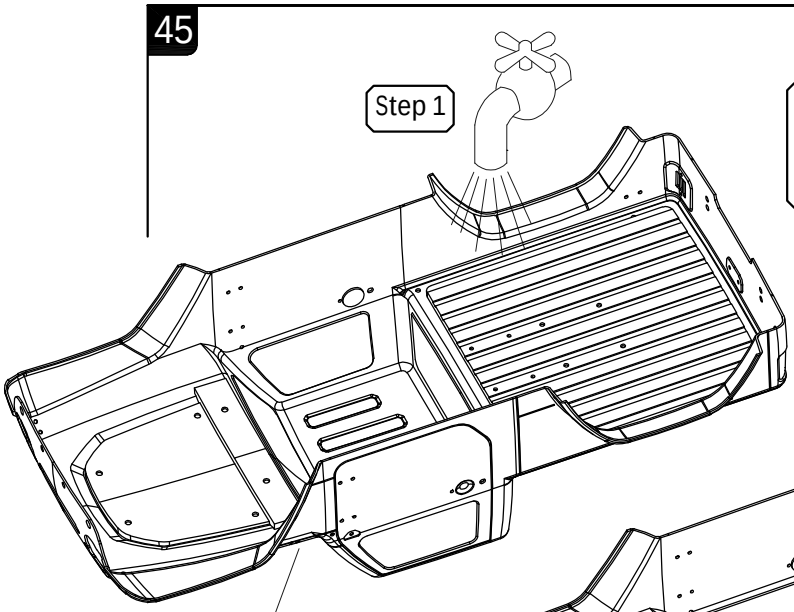


45

EMOX1

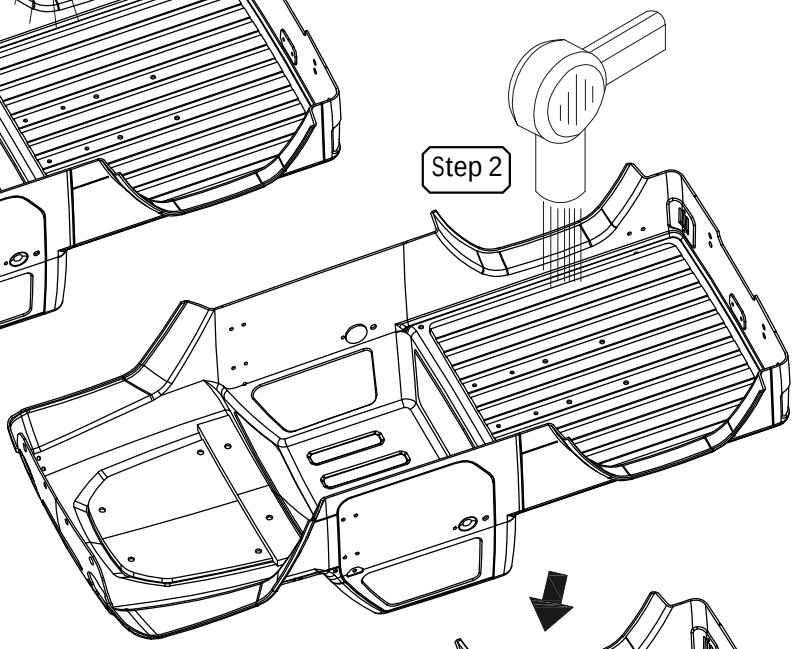
Step 1

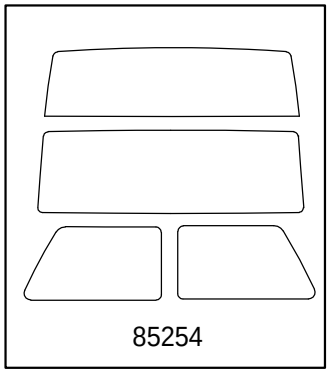
Wash the inside of the body shell with mild detergent, then rinse and dry thoroughly.



227101

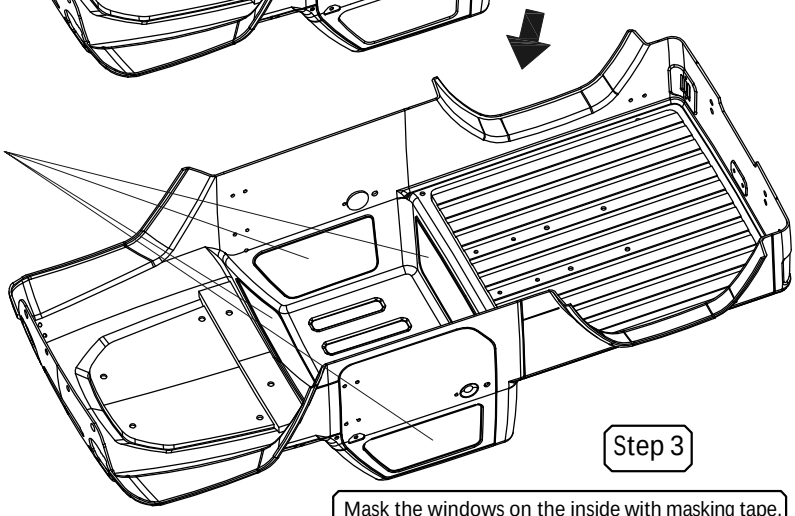
Step 2





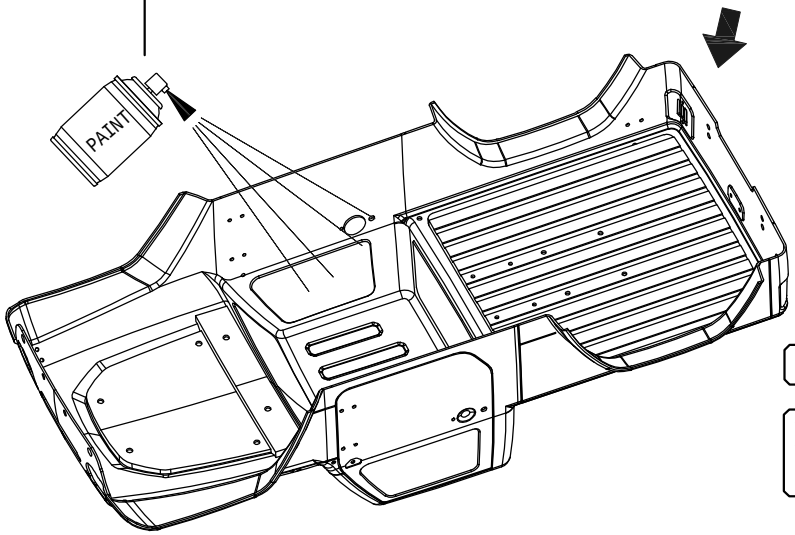
85254

85254



Step 3

Mask the windows on the inside with masking tape.



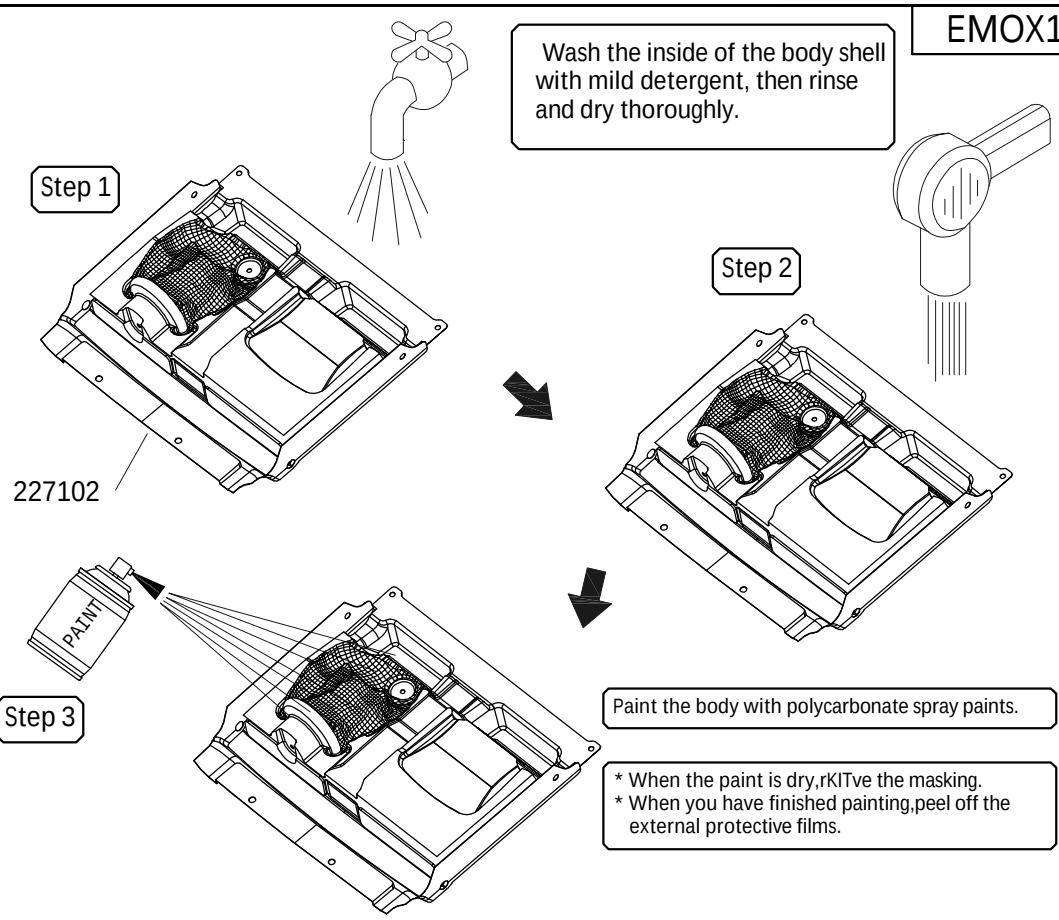
Step 4

Paint the body with polycarbonate spray paints.

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

46

EMOX1



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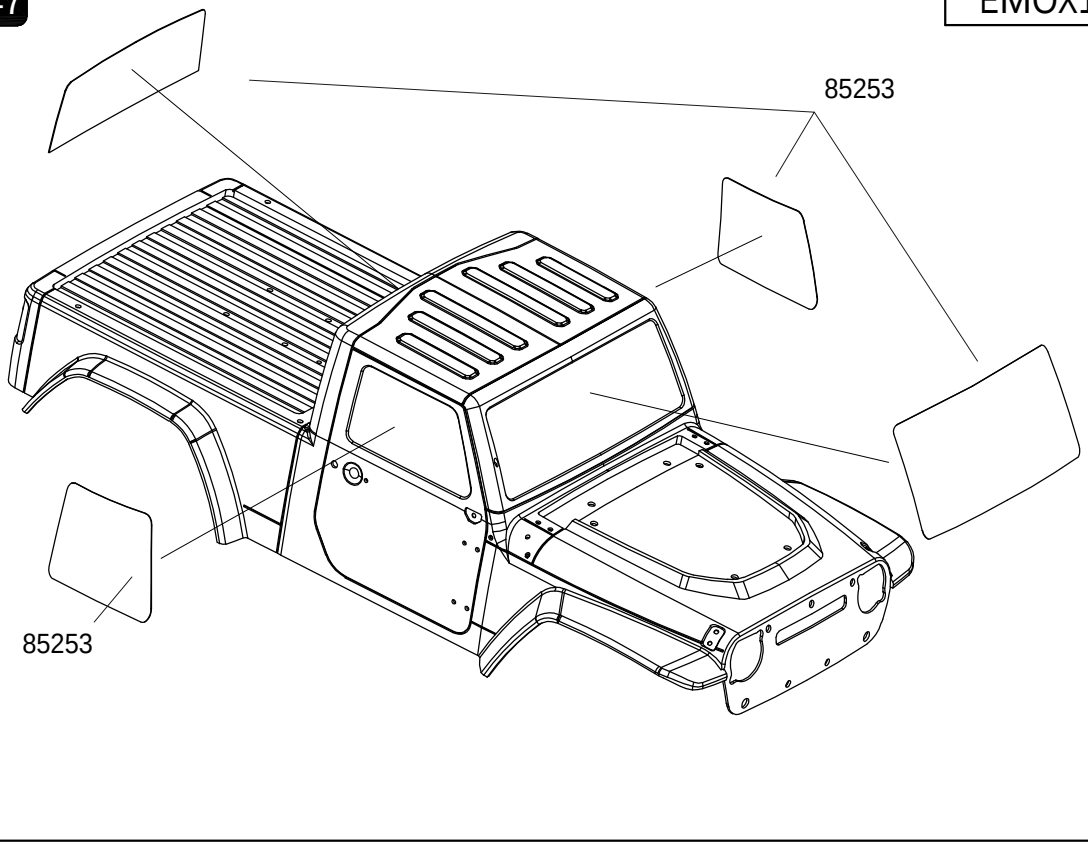
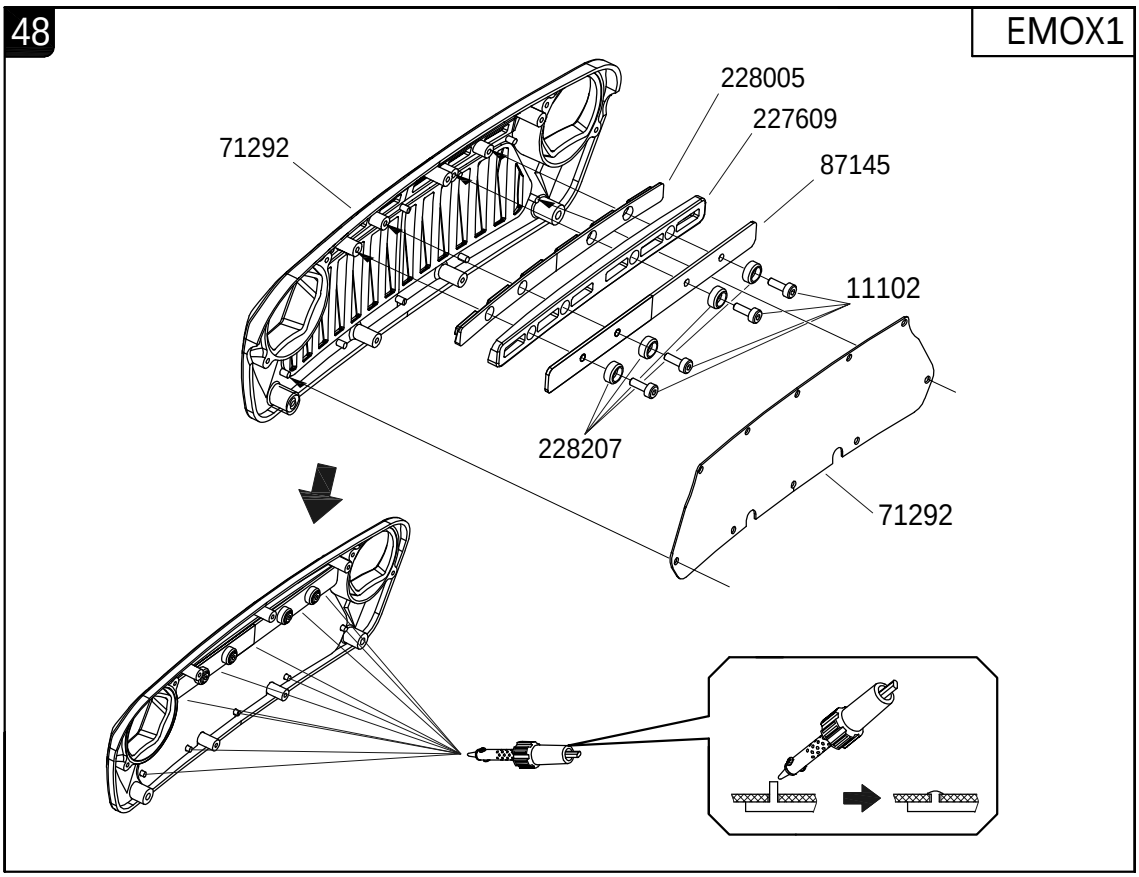
EMOX1



BAG(Y)

11102
M2x6 X4

48 EMOX1

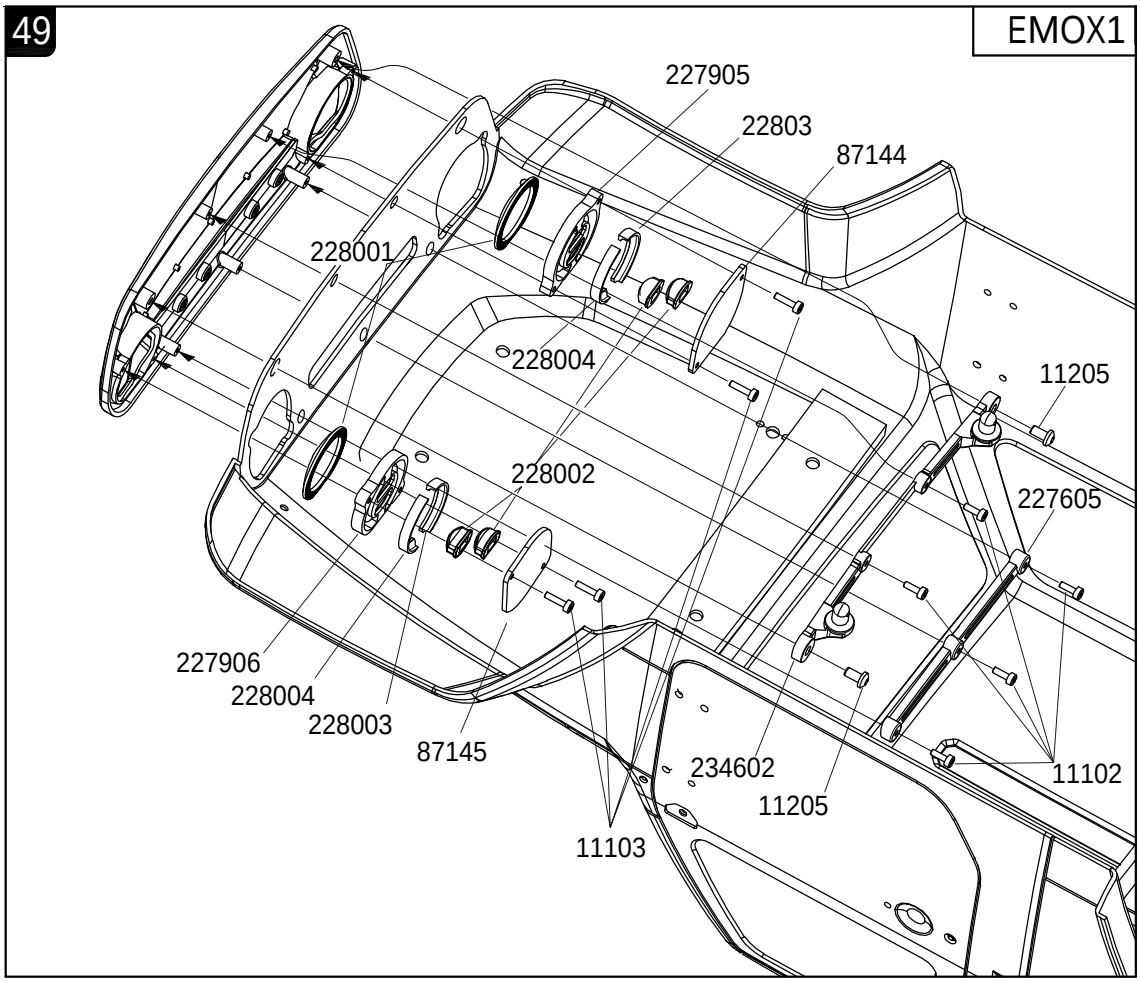


11103
M2x8 X4

11102
M2x6 X5

11205
M3x6 X2

49 EMOX1



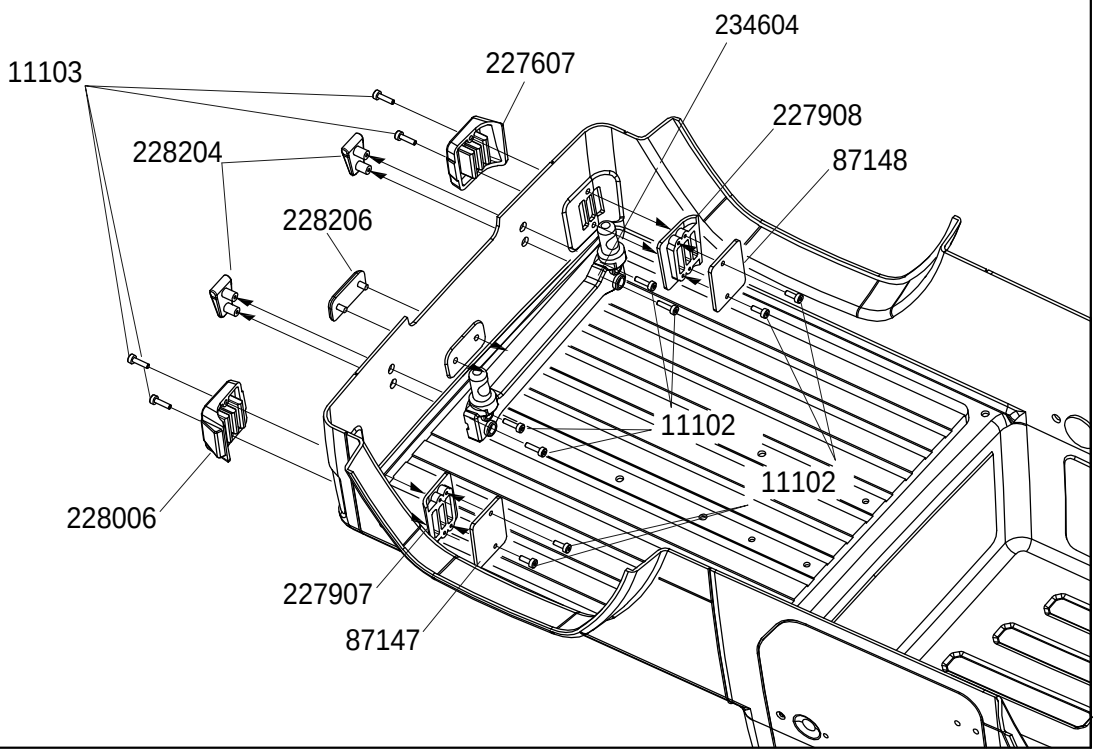
BAG(Y)

11102
M2x6 X8

11103
M2x8 X4

50

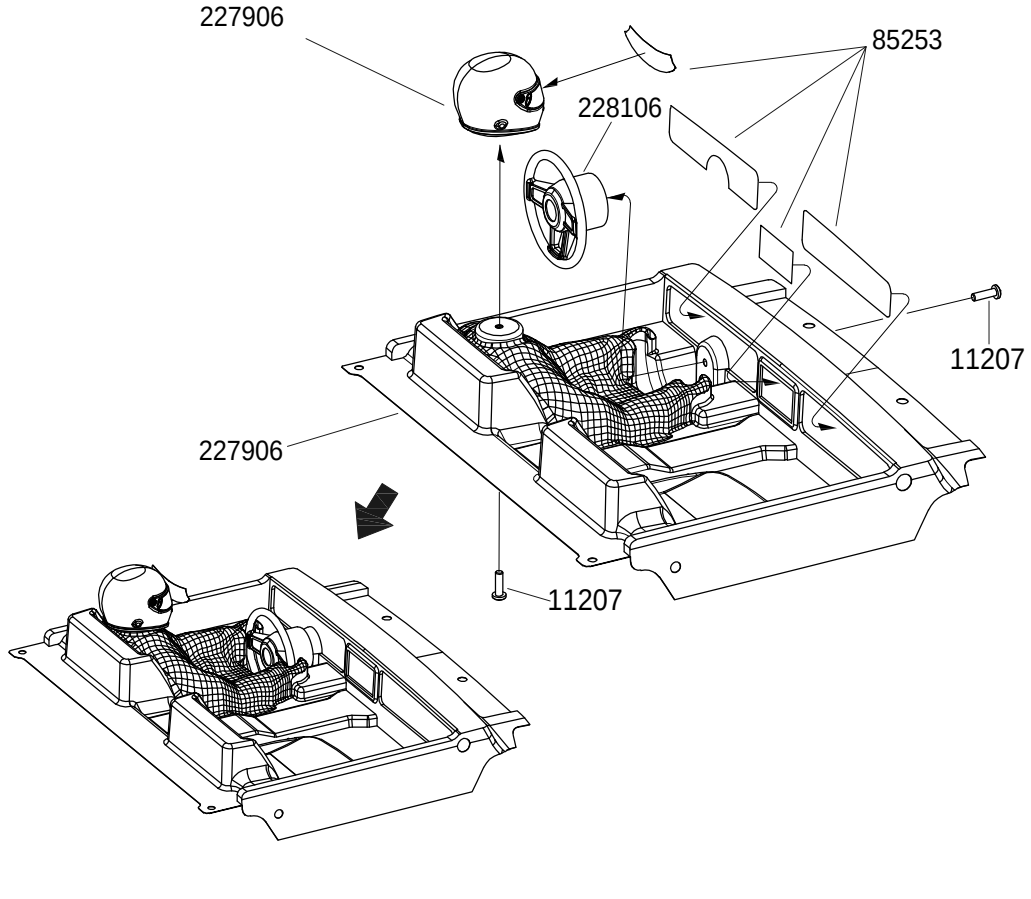
EMOX1



11207
M3x10 X2

51

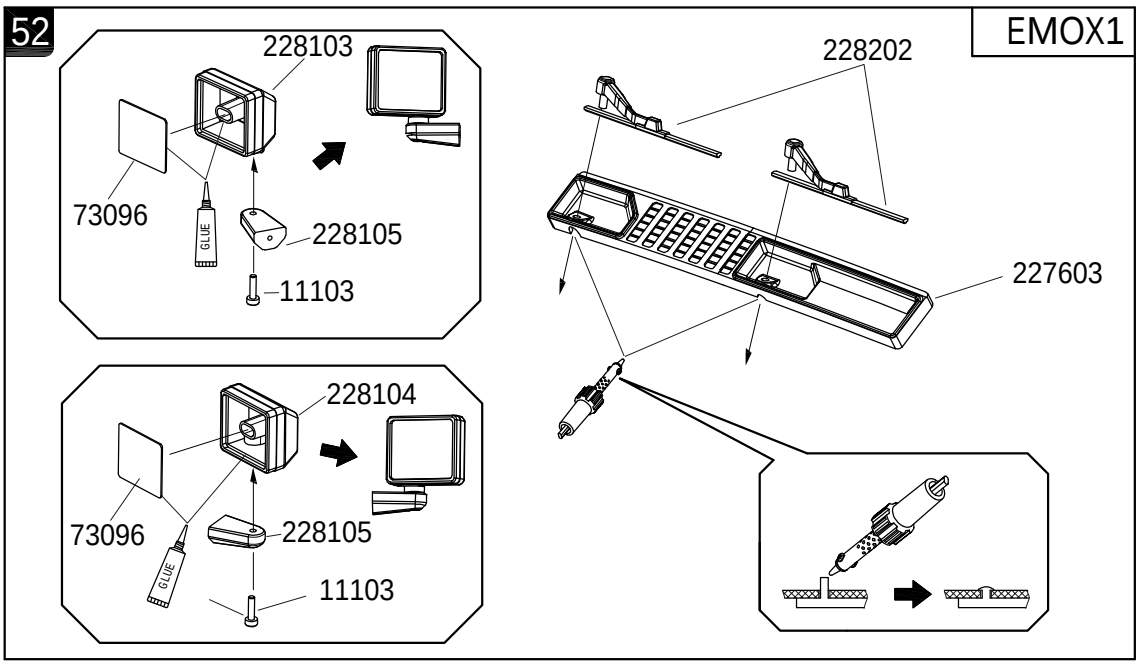
EMOX1



BAGY)

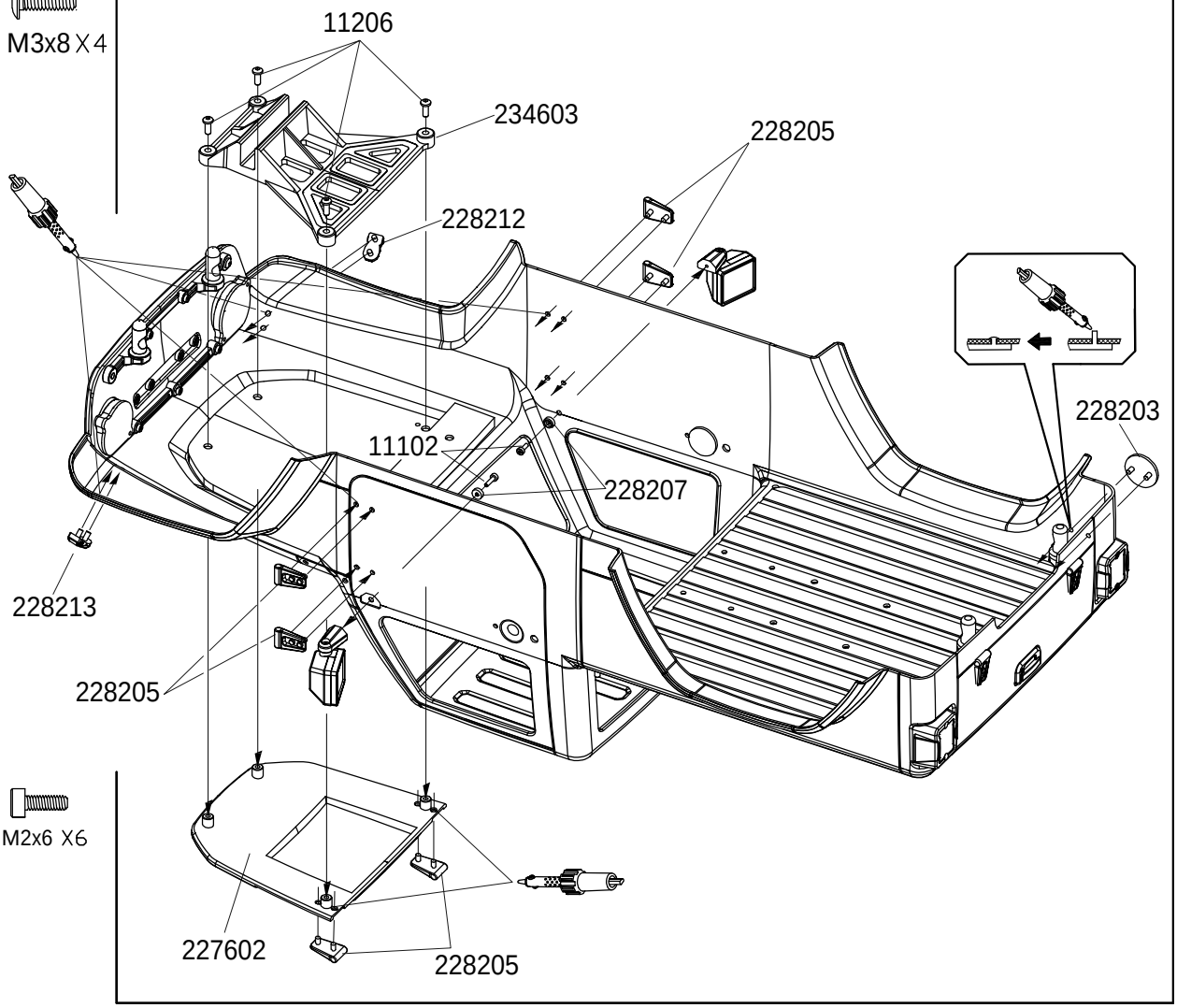
11103
M2x8 X2

52 EMOX1



53 EMOX1

11206
M3x8 X4

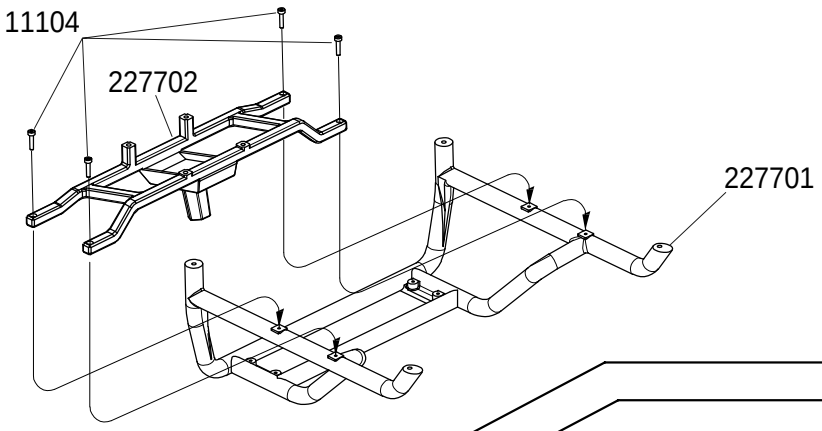


11102
M2x6 X6

BAG(Y)

11104 M2x10 X4

54 EMOX1



55 EMOX1

11116 M2.5x12 X4

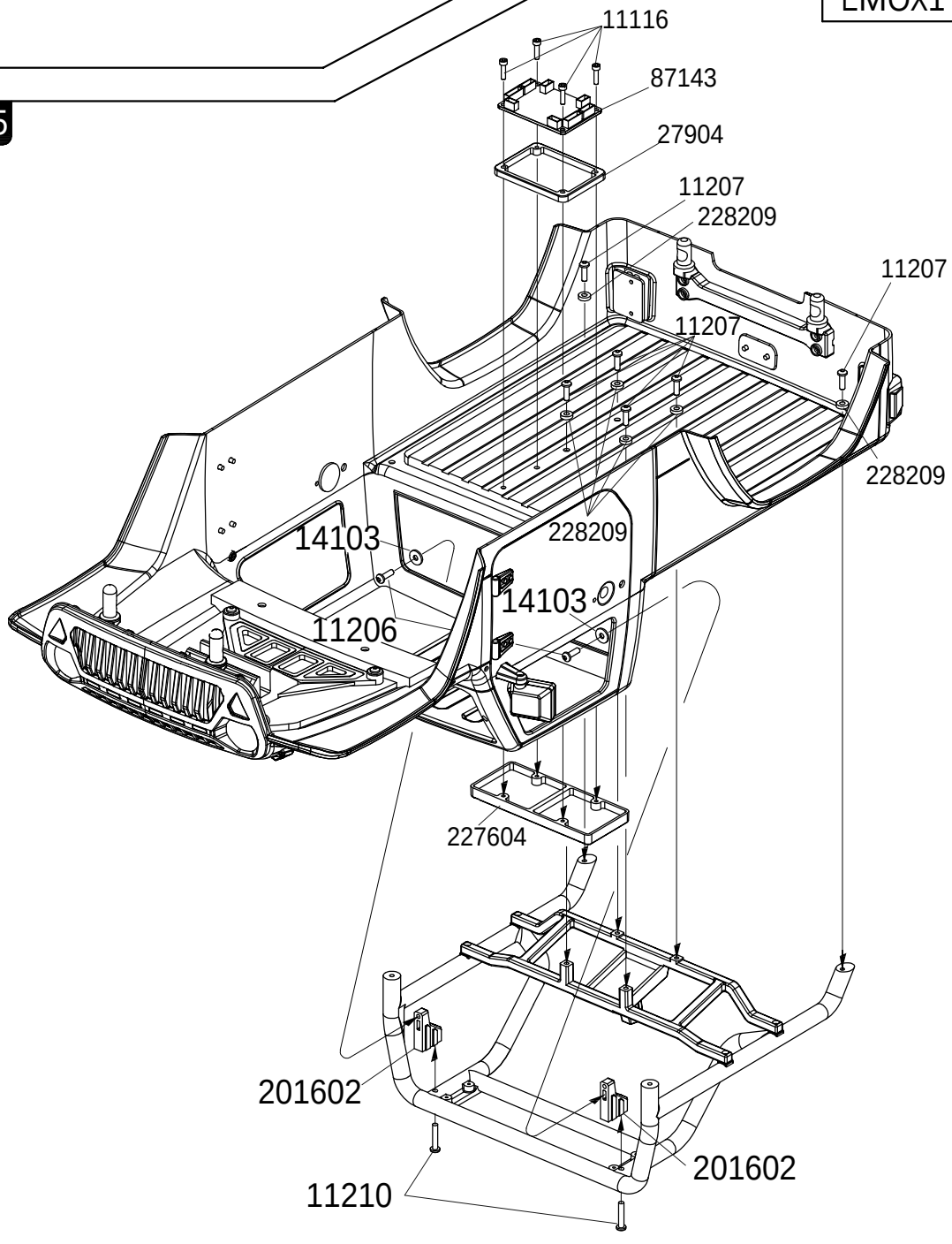
11207 M3x10 X6

BAG(AA)

11206 M3x8 X2

11210 M3x16 X2

14103 Ø3.2xØ9x1 X2



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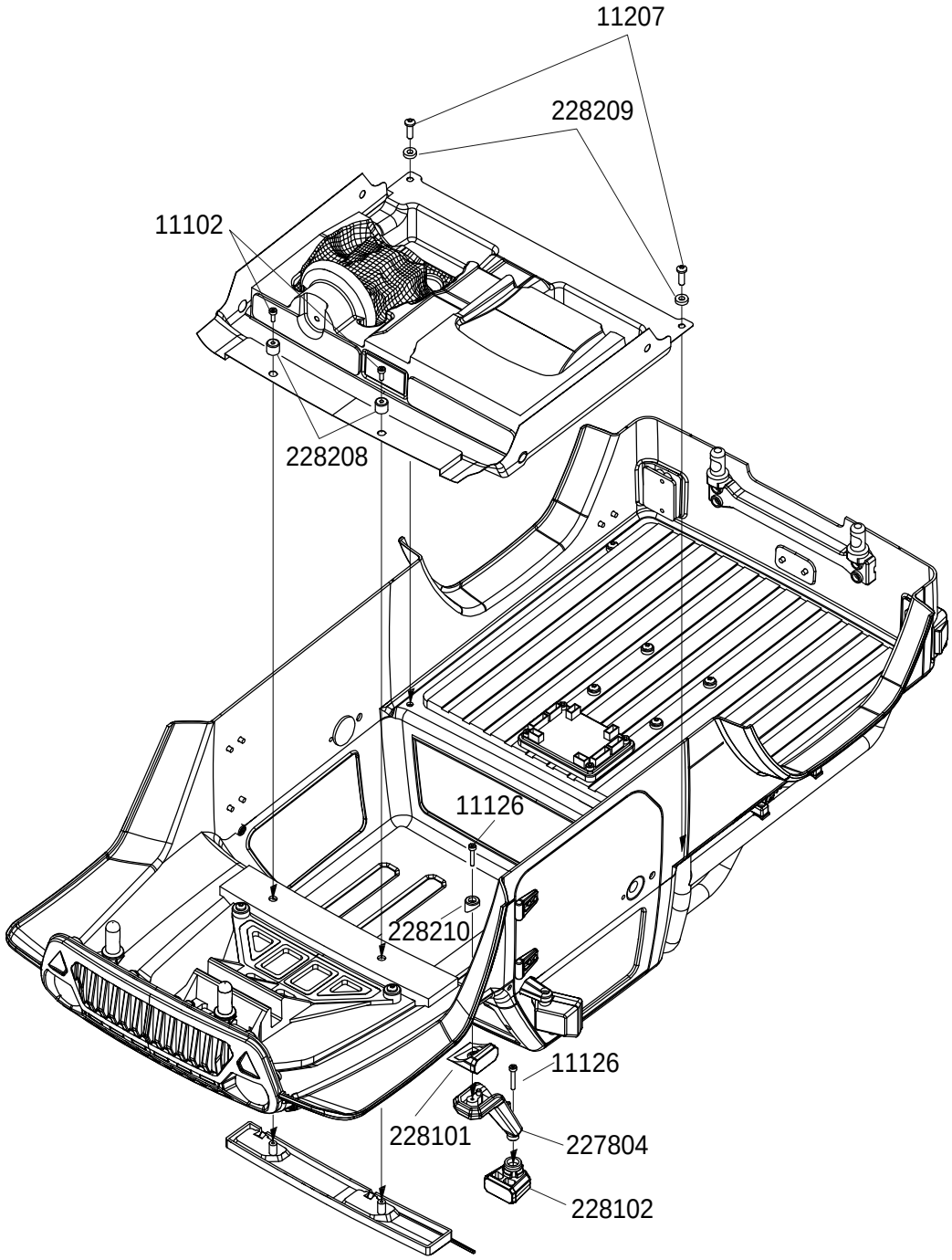
EMOX1

BAG(Y)

11207 M3x10 X2

11102 M2x6 X2

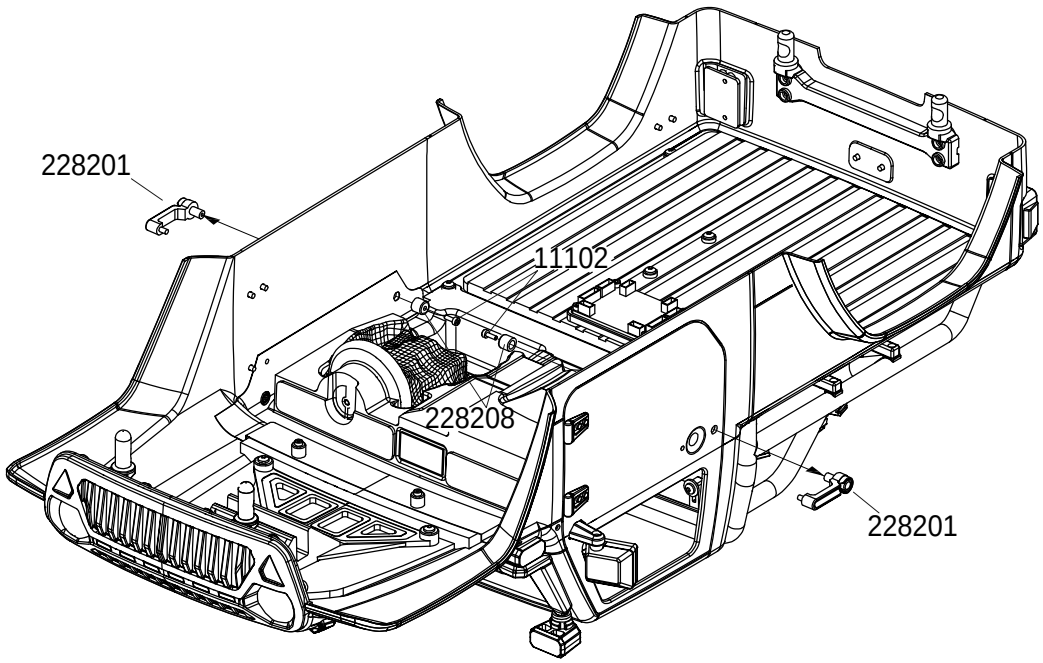
11126 M2x14 X2



BAG(Y)

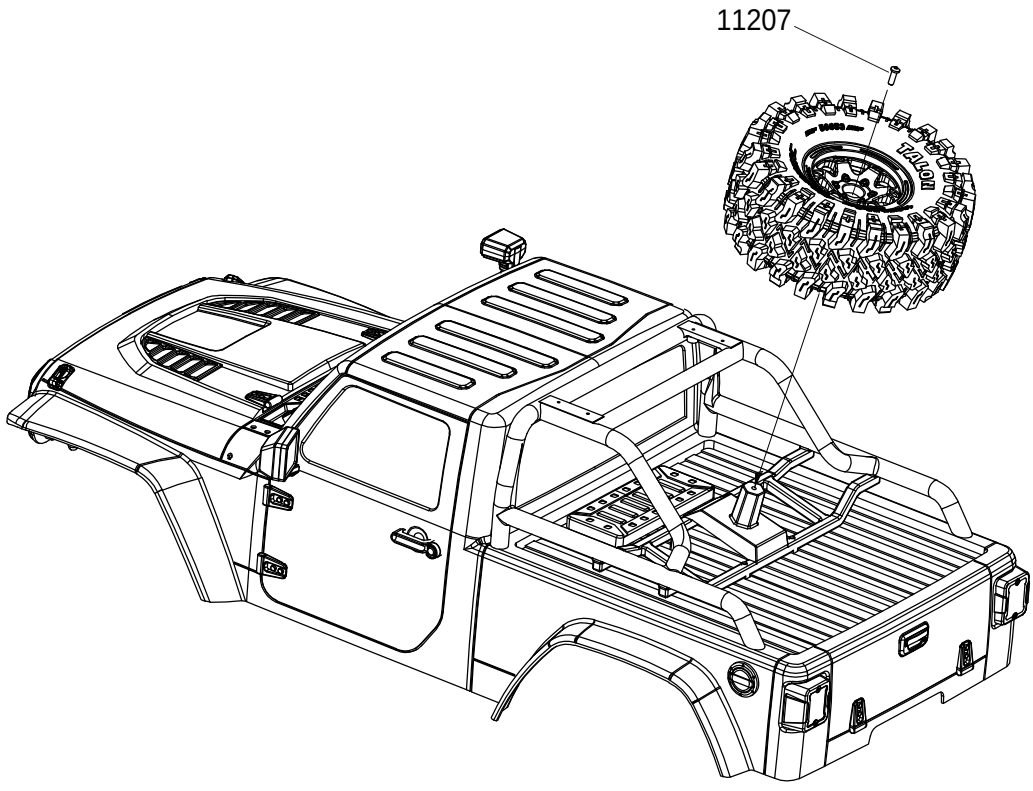
11102
M2x6 X2

57 EMOX1



58 EMOX1

11207
M3x10 X1



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EMOX1