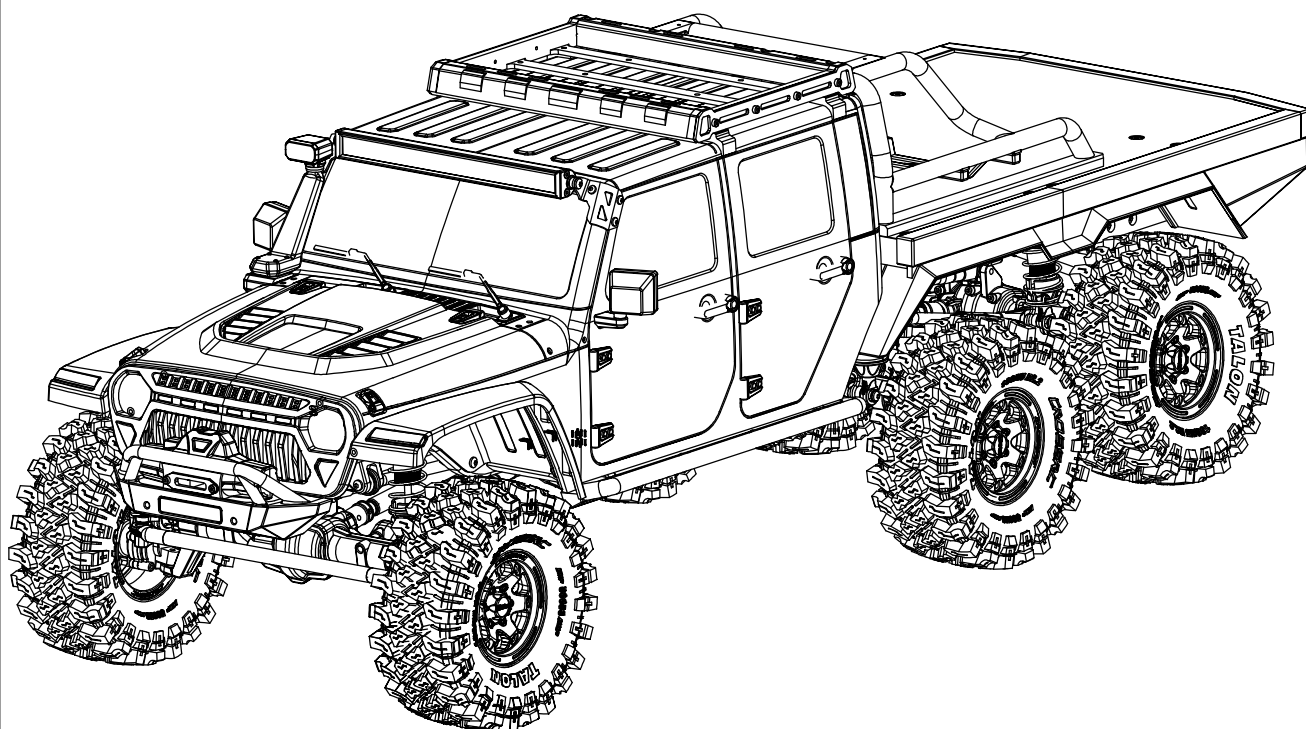




EMOXL2

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

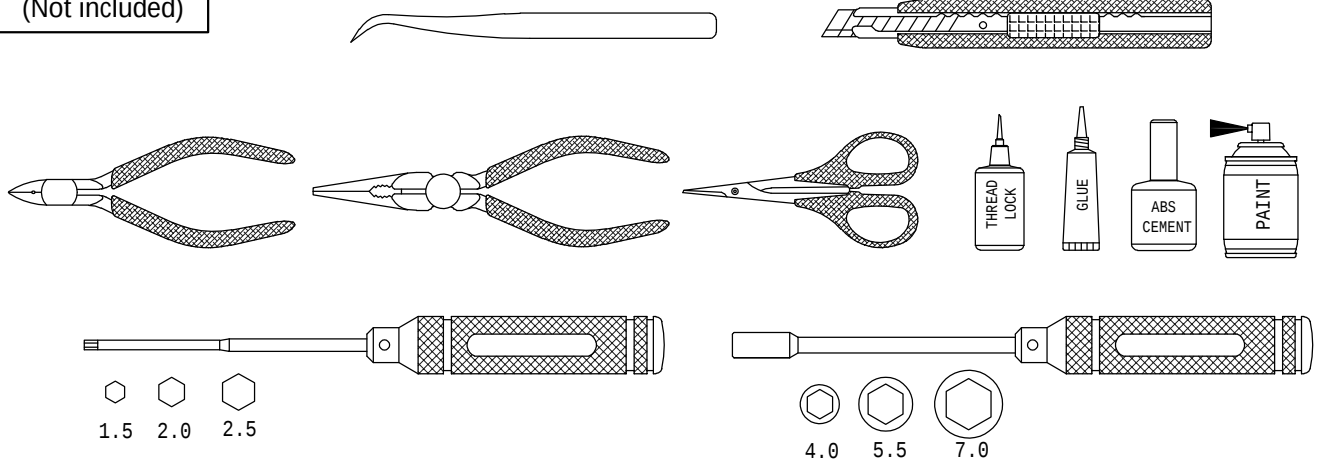
- 2.1 Ensure that all screws are properly tightened. Use thread-lock to secure any metal to metal contacts- especially for components designed to withstand torque (servo mounts, motor mount, drive shaft grub screws etc.).
- 2.2 Always check the battery voltage for both the transmitter and vehicle prior 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

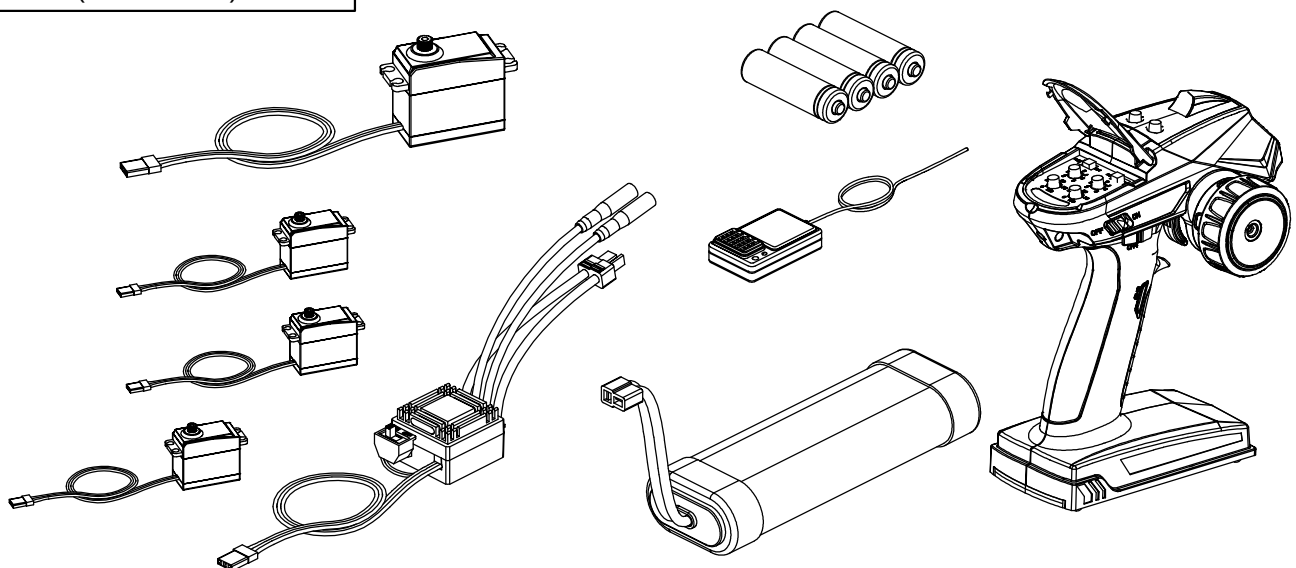
- 3.1 To turn off the vehicle, always power off your receiver prior to powering off your transmitter.
- 3.2 Use caution when handling the vehicle- components, especially the ESC and motor which will be hot after operation.
- 3.3 Never use battery packs which are dented or otherwise damaged. Ensure that 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)



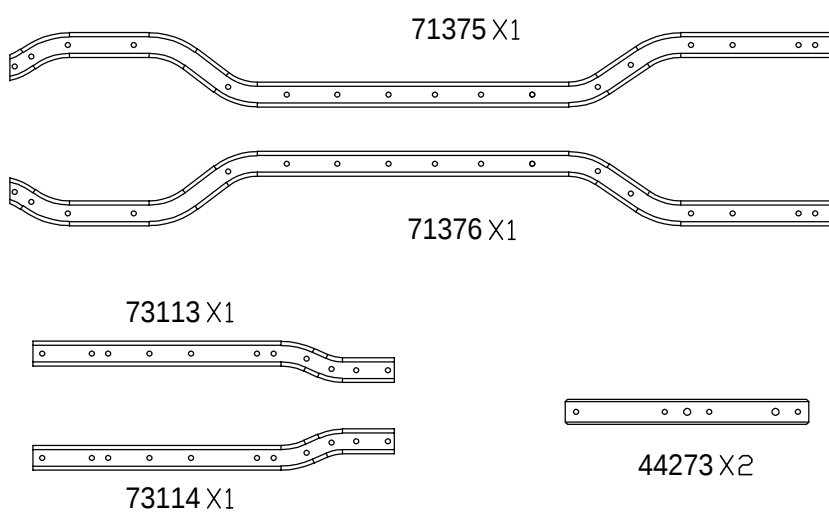
EMO X Assembly Remind

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 67 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.

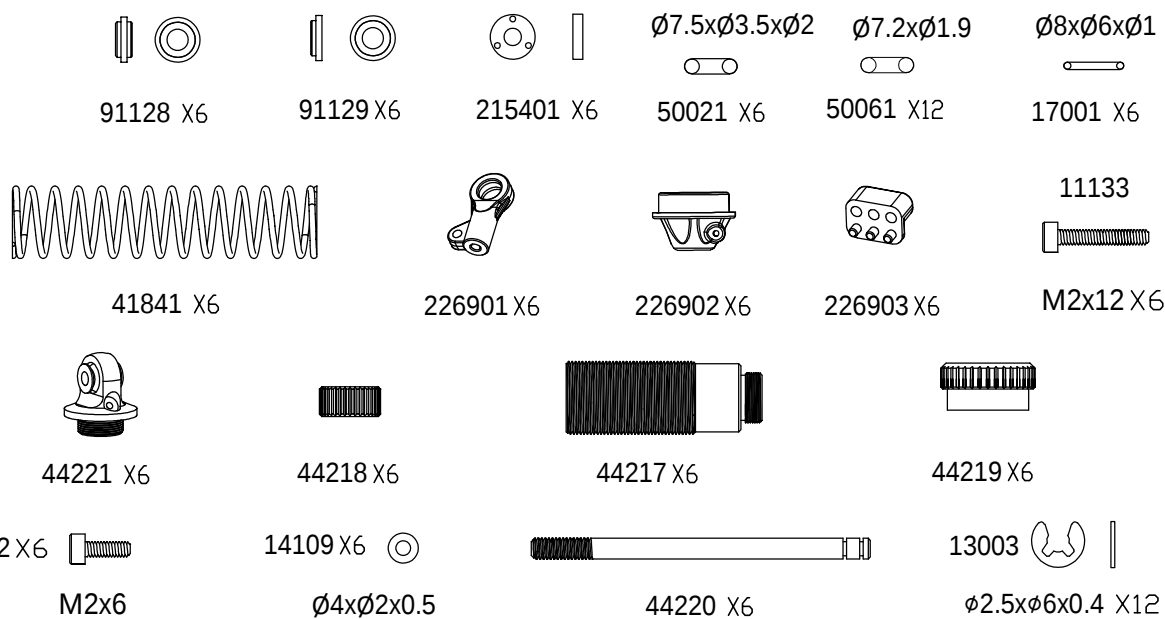
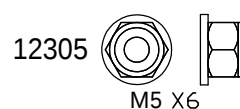
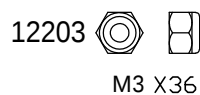
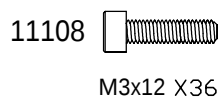
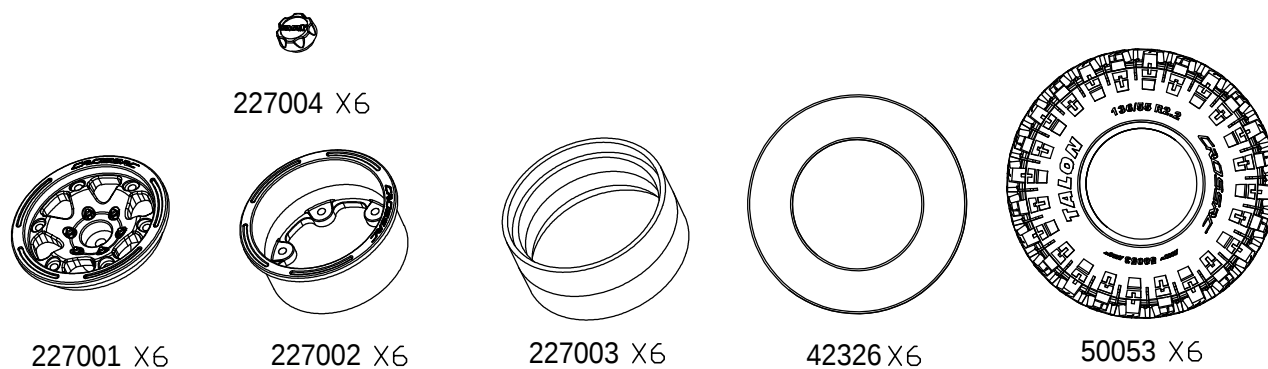
Requirements and recommendations for electronic equipment:

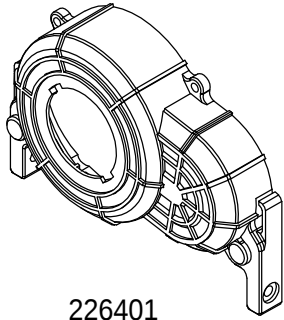
Name	Specifications	Remarks
Remotes controller	6 channels or Up	Waterproof connector is recommended
Servo	Steering servo $\geq 25\text{KG}$	High pressure standard Servo in waterproof
	Shift servo $\geq 3\text{KG} \times 3$	For the size of medium Servo, please refer to the configuration drawing below
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

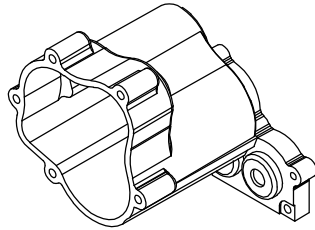


91006 X1 91007 X1





226401



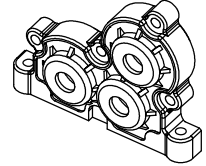
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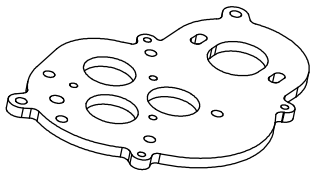
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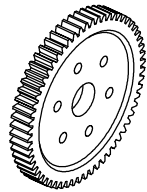
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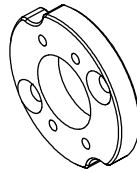
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45123



226501(60T)



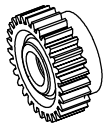
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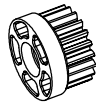
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41750



36207



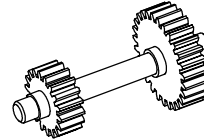
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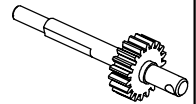
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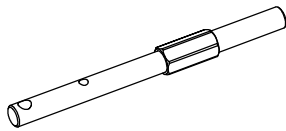
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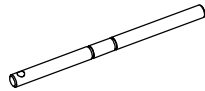
41748



41747



42234



42235



44212



44213



44214



74016

13001

 $\phi 3 \times \phi 7.8 \times 0.5 \times 2$

42236

 $\phi 5.1 \times \phi 7.5 \times 2.5 \times 1$

42203

 $\phi 5.1 \times \phi 8 \times 1.5 \times 2$

72007

 $\phi 5 \times \phi 8 \times 0.3 \times 11$

14102

 $\phi 3 \times \phi 7 \times 0.5 \times 2$

41209

 $\phi 2 \times 10 \times 1$

11217



M2.5x10 X6

11216



M2.5x6 X3

11205



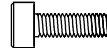
M3x6 X3

11207



M3x10 X7

11107



M3x10 X2

11331



M4x10 X2

11405



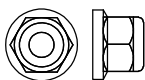
M4x4 X1

11315



M2.5x6 X3

12304



M4 X1



41834 X1



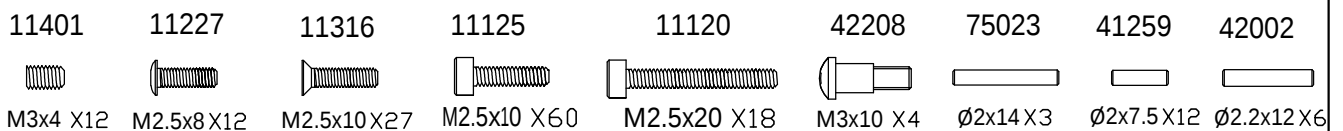
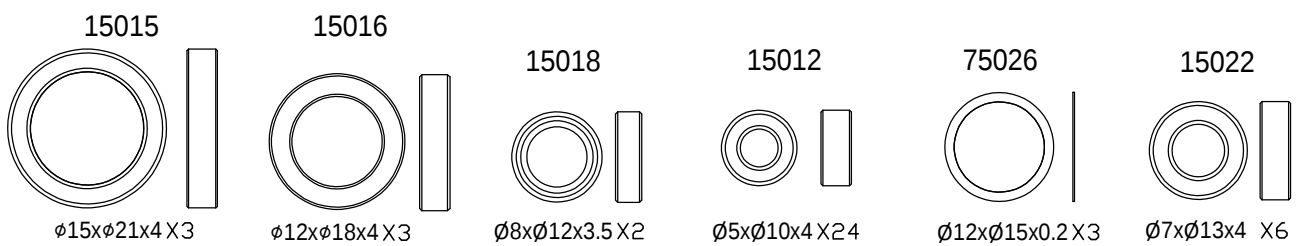
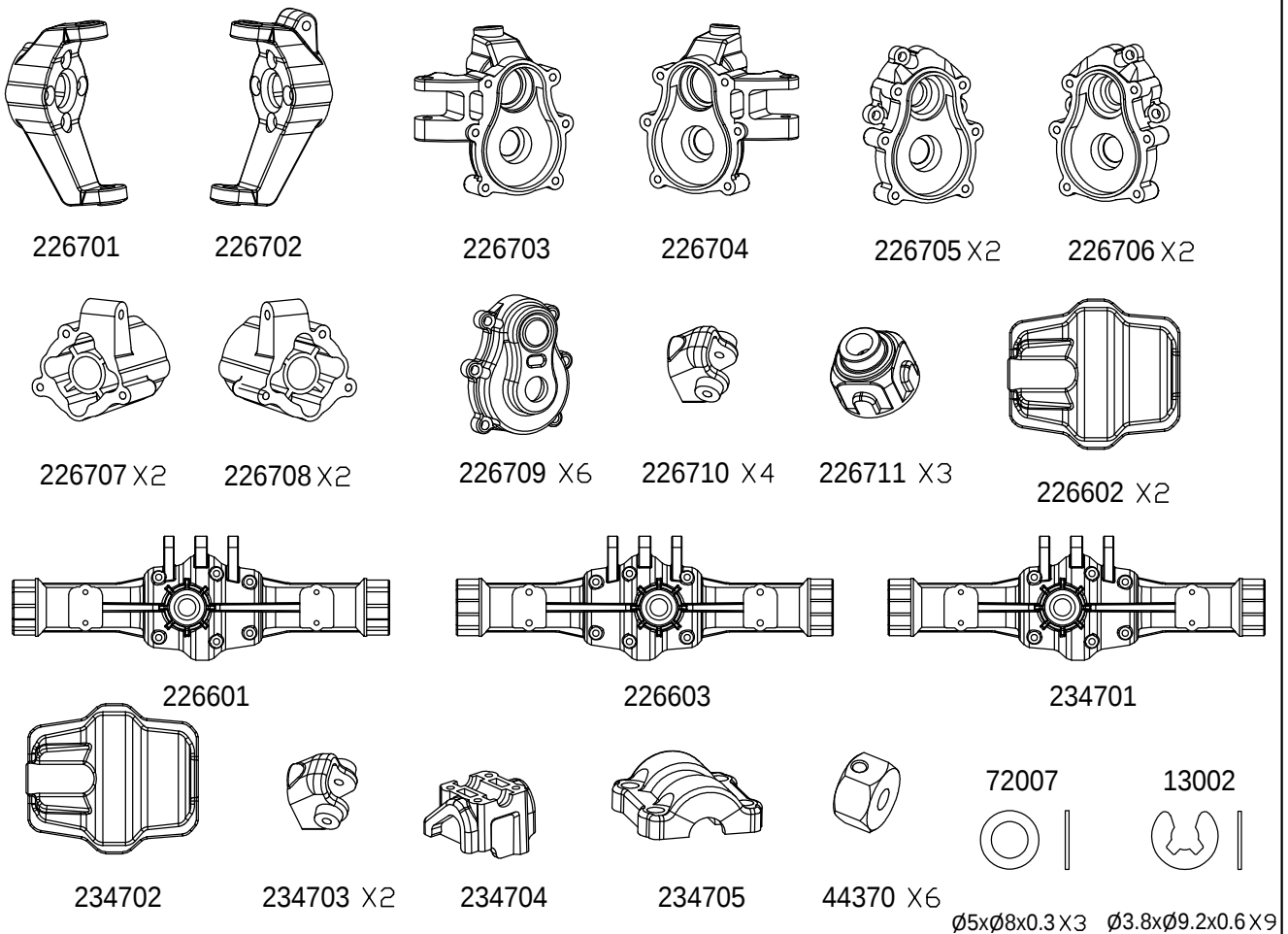
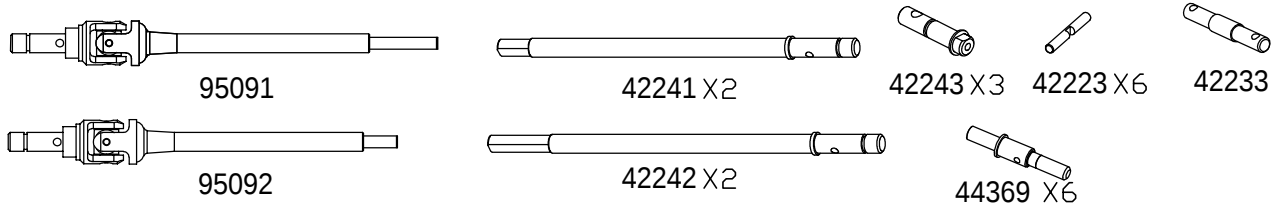
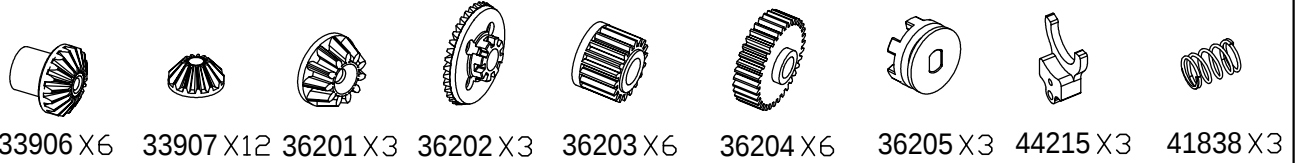
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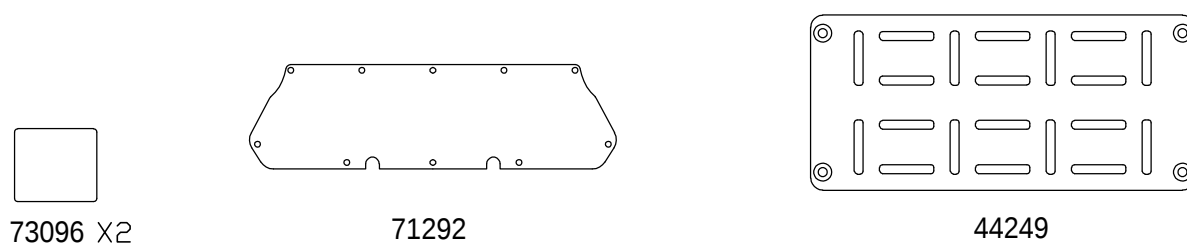
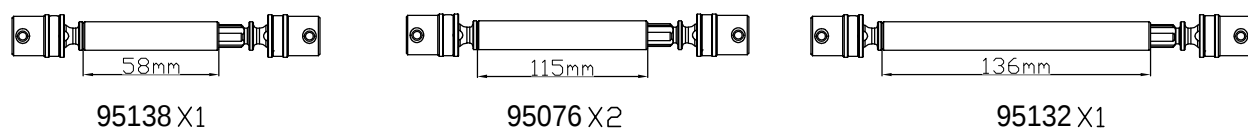
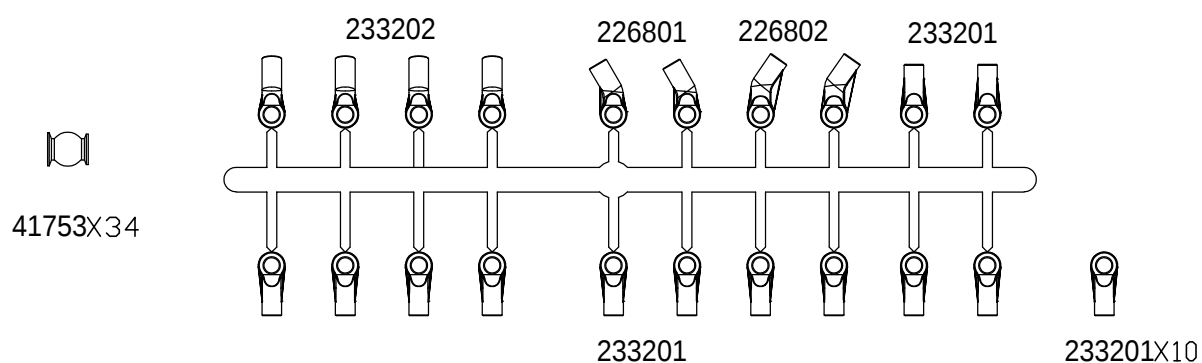
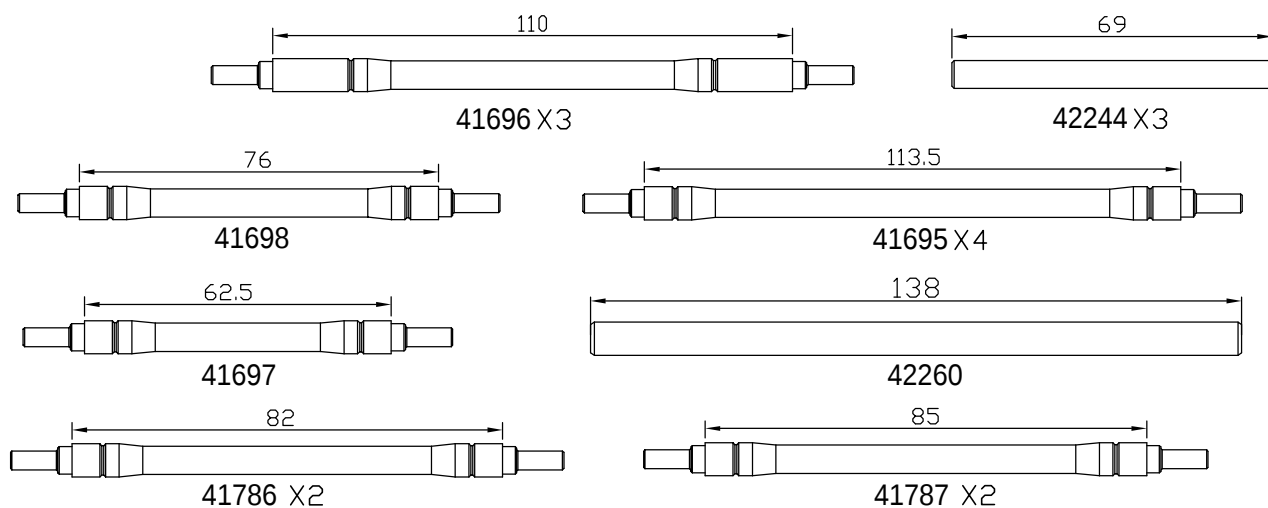
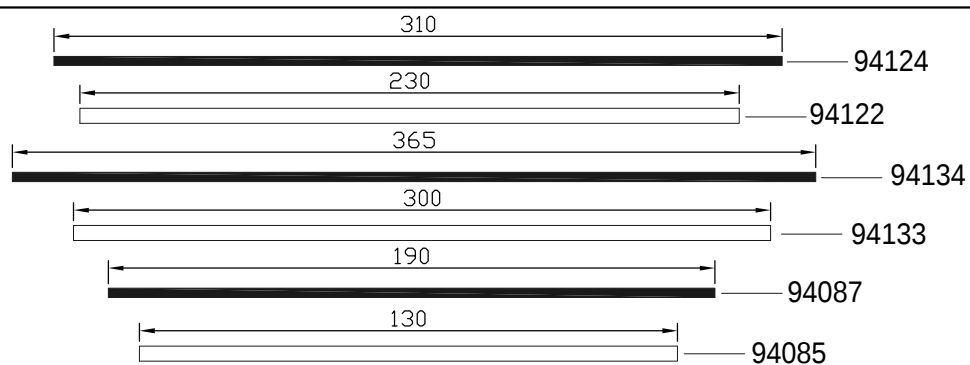
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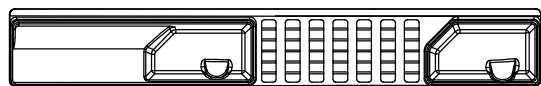
 $\phi 5 \times \phi 10 \times 4 \times 11$

15014

 $\phi 5 \times \phi 8 \times 2.5 \times 4$



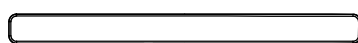




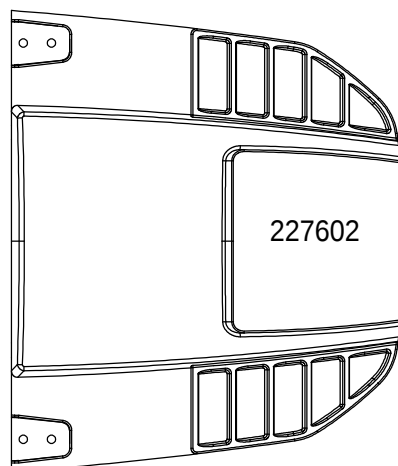
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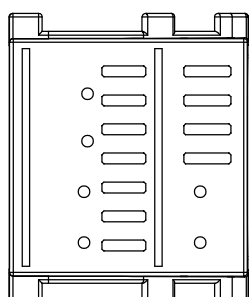
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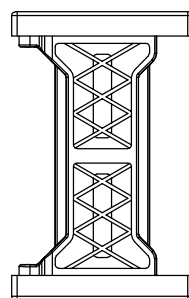
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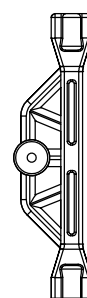
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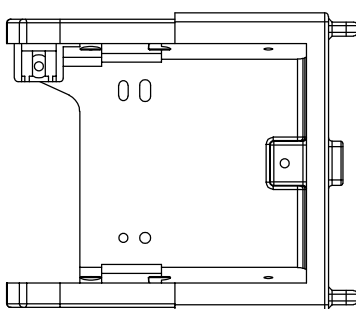
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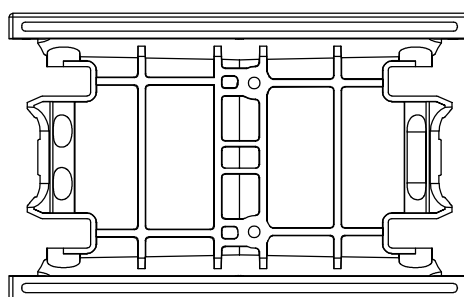
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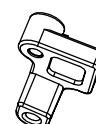
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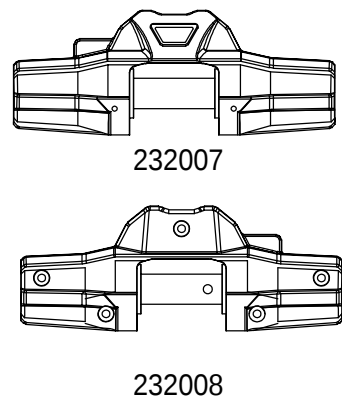
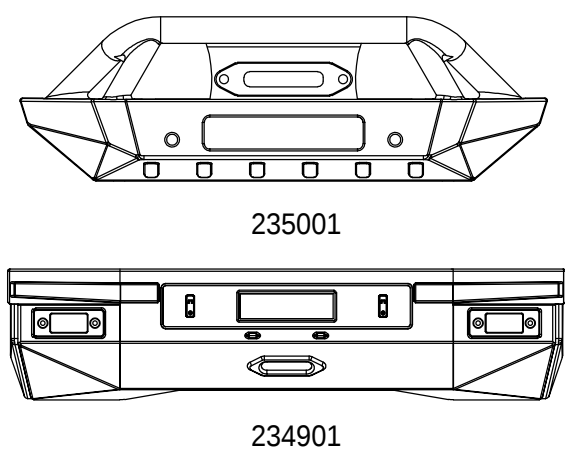
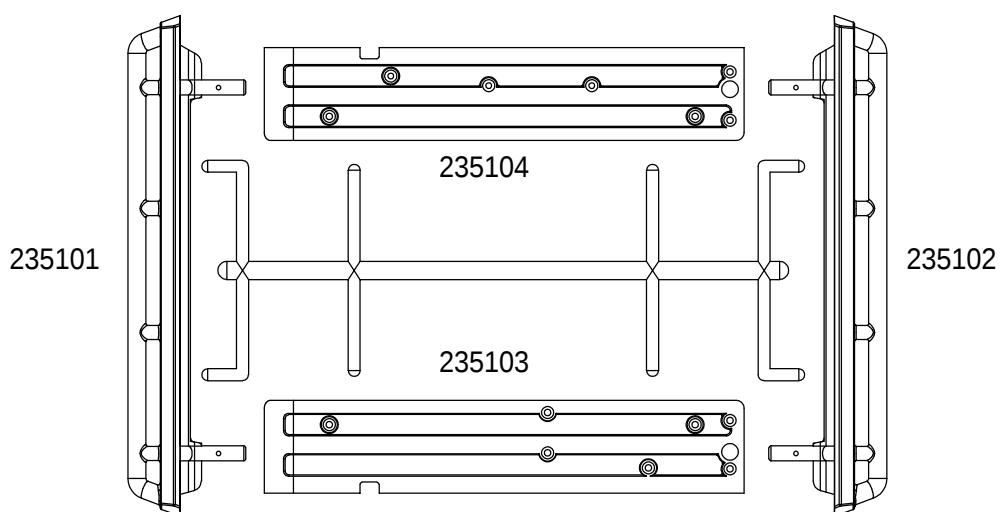
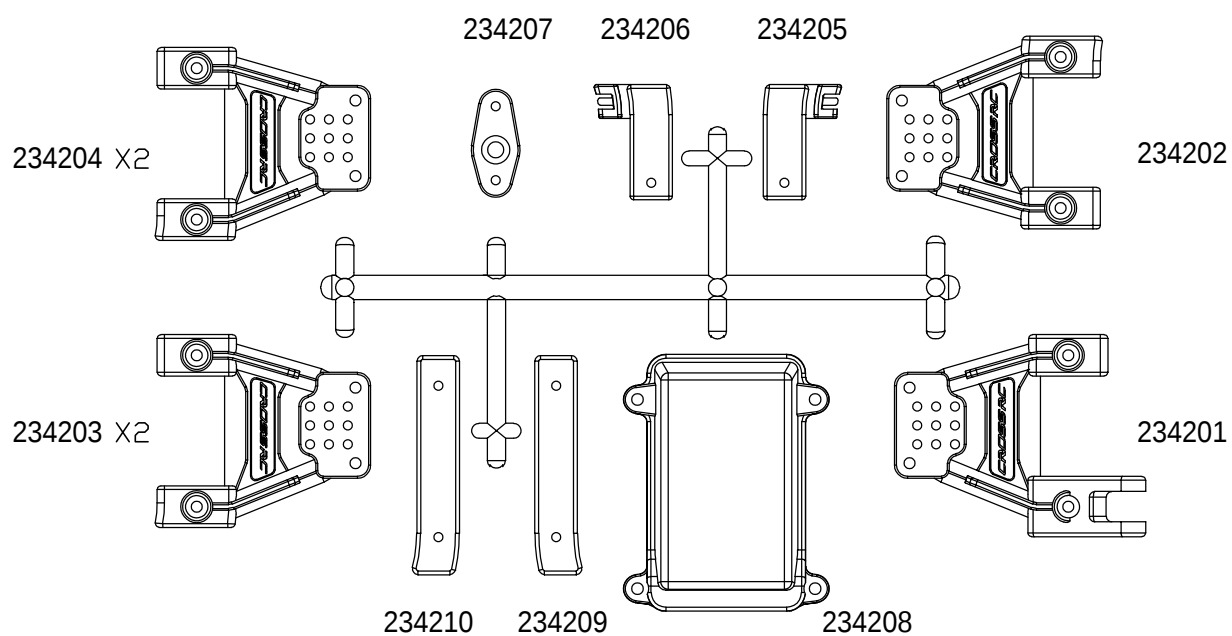
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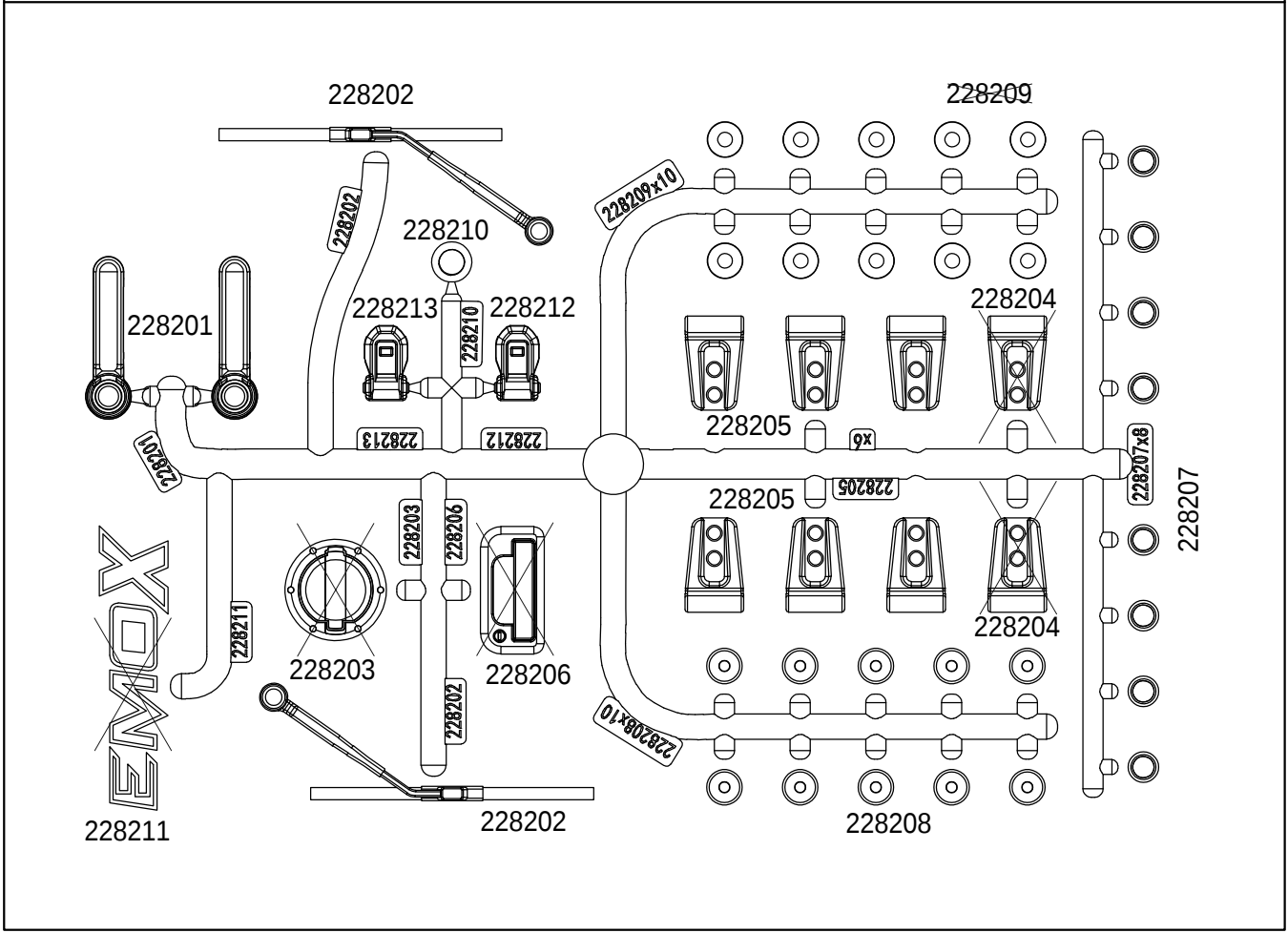


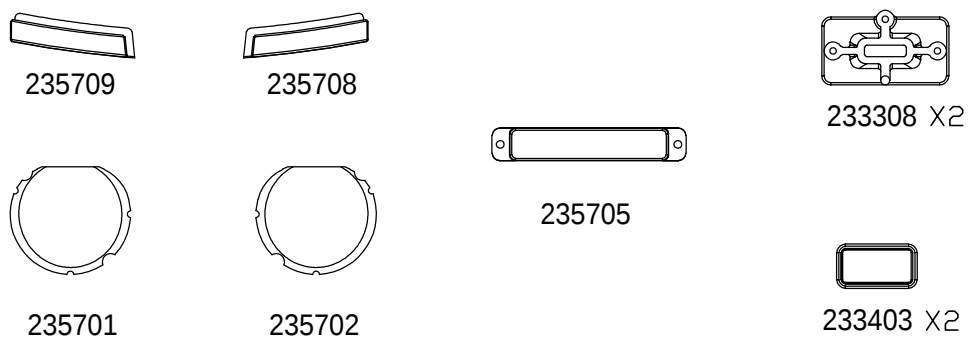
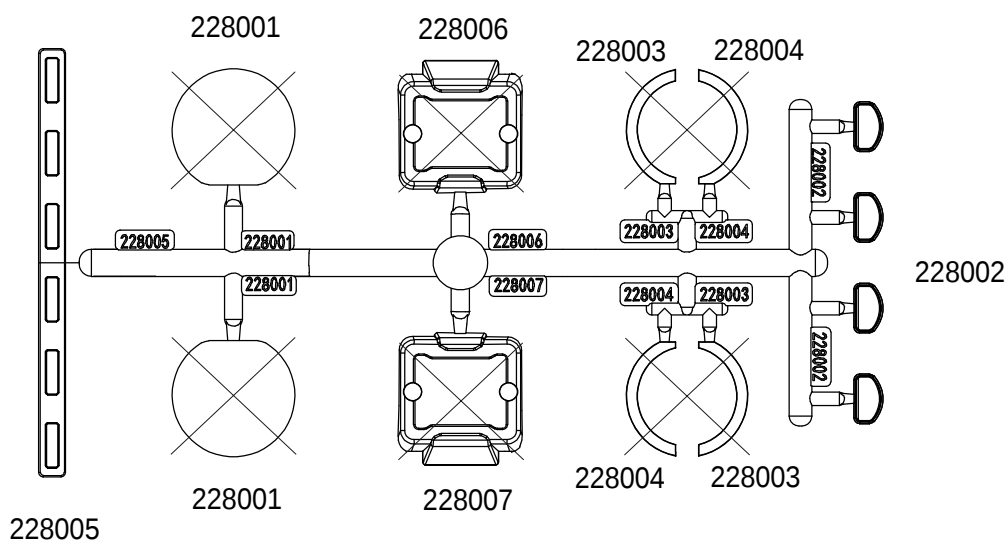
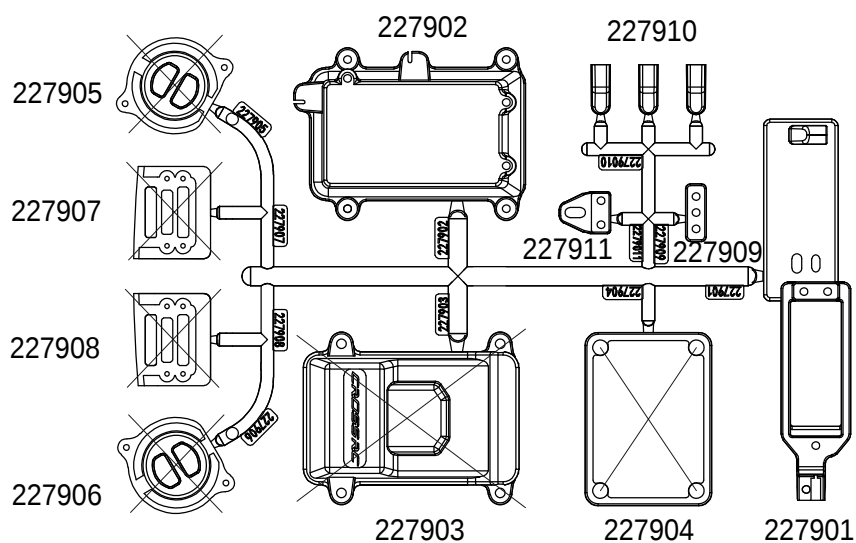
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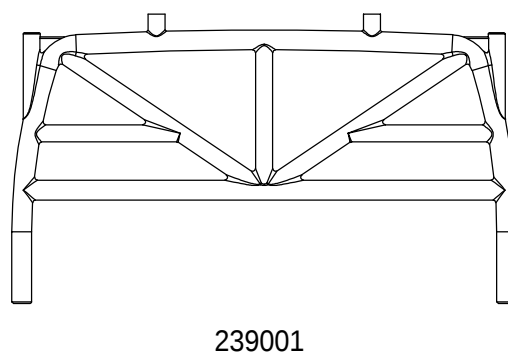
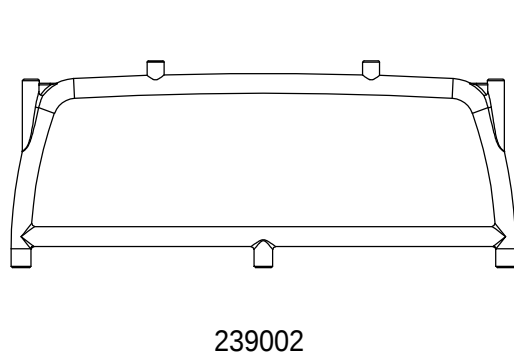
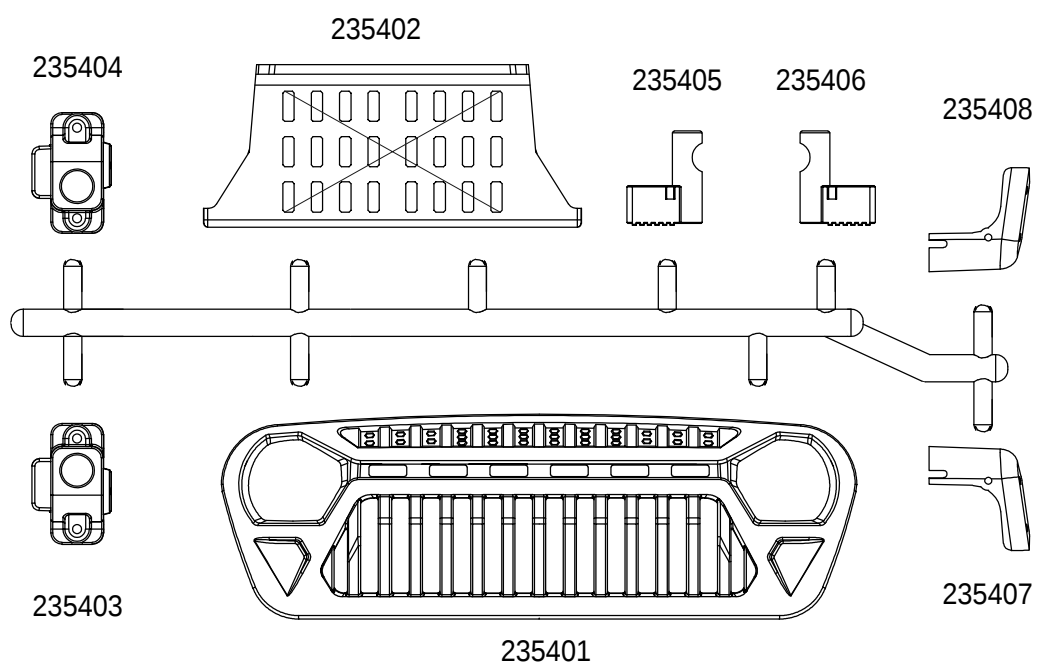
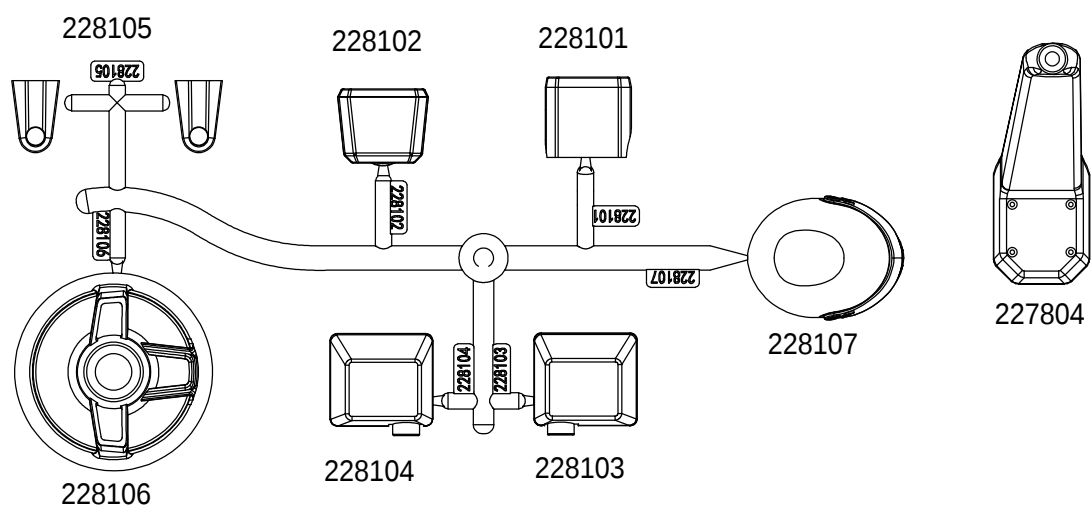


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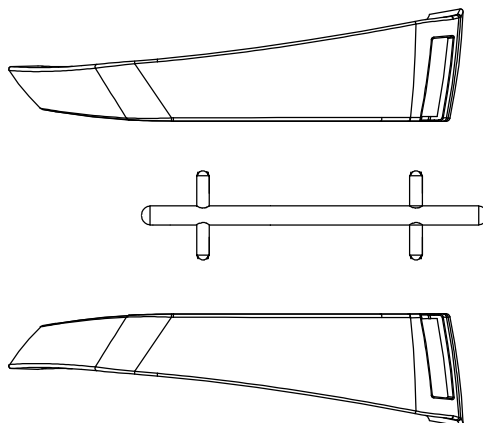




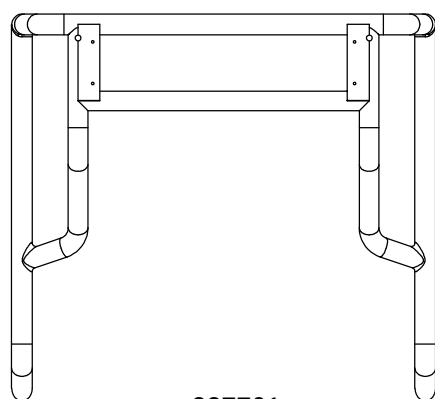
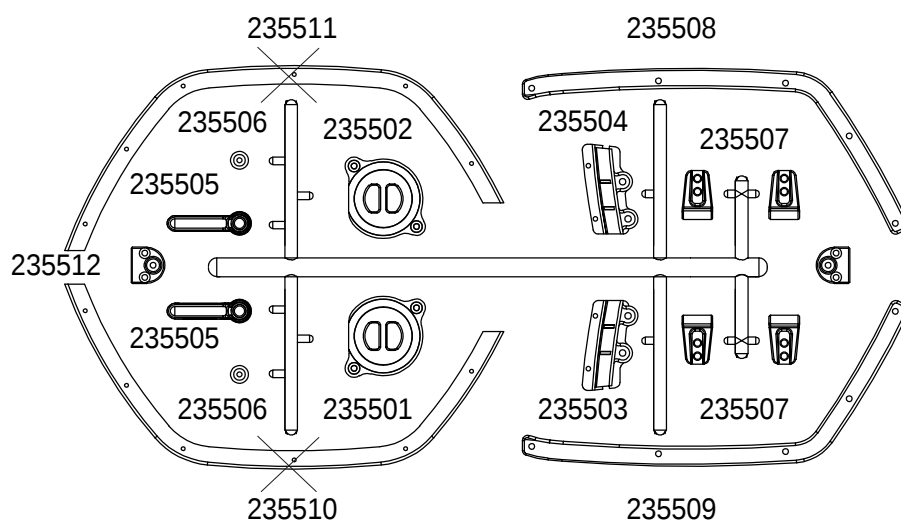




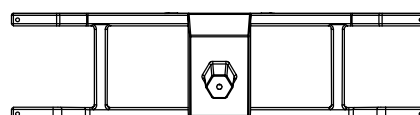
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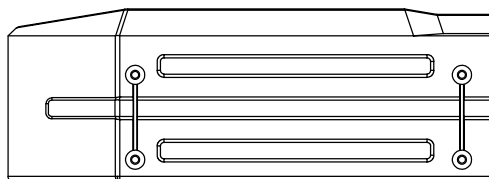


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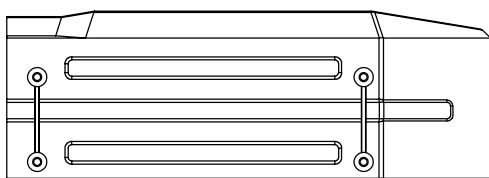
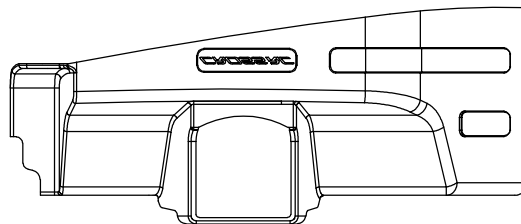


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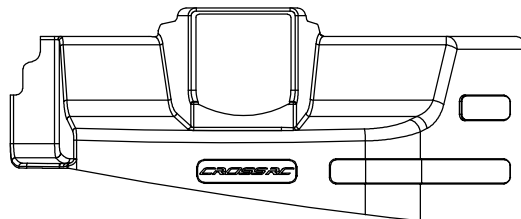
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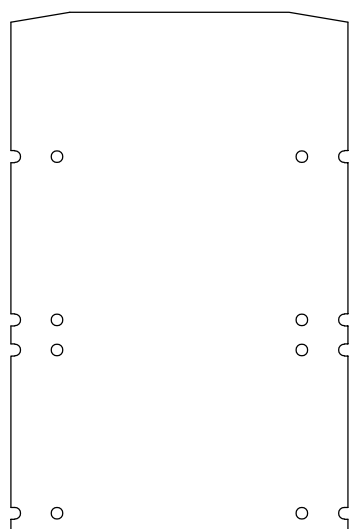
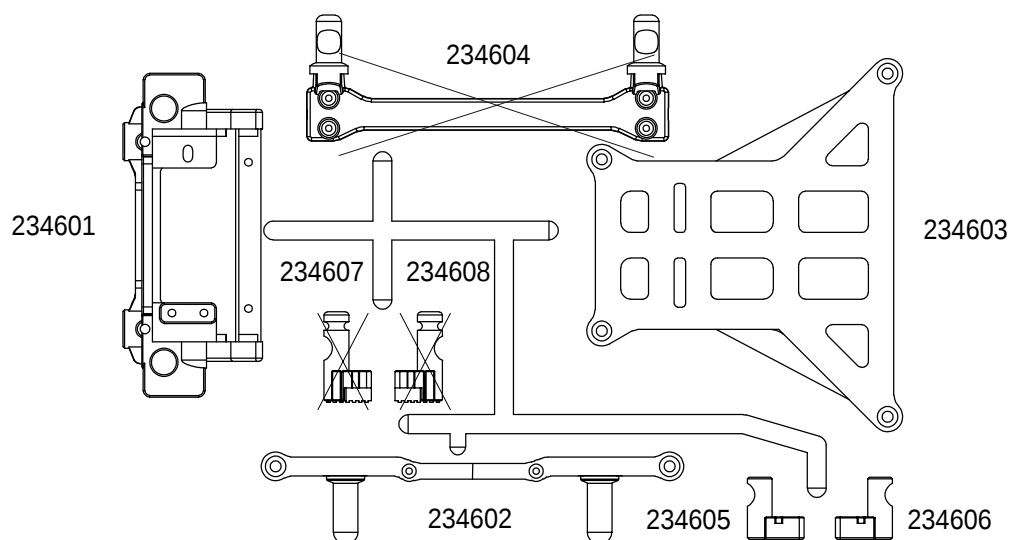
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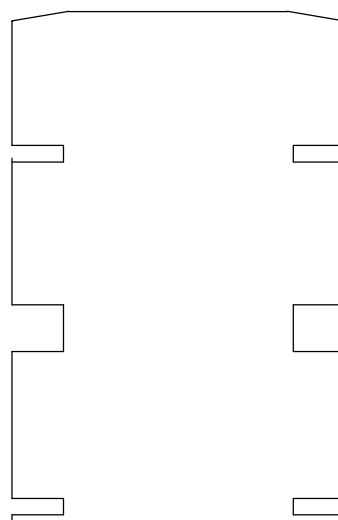
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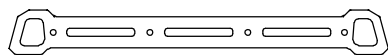
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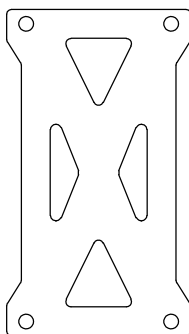
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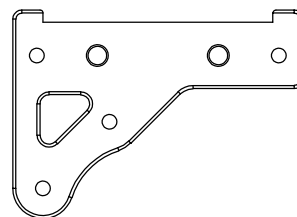
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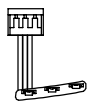
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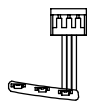
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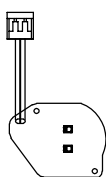
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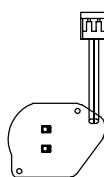
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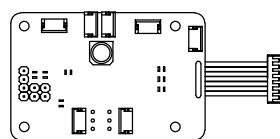
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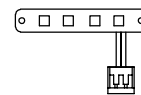
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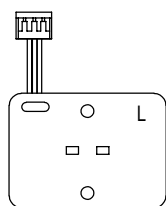
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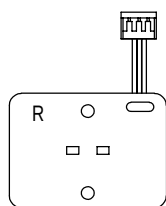
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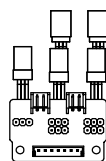
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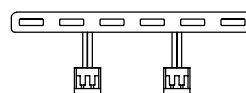
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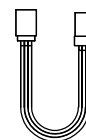
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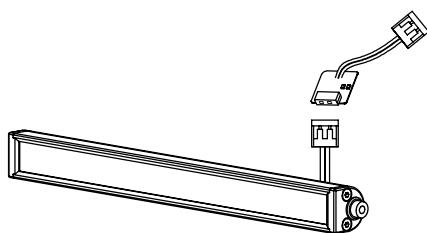
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87148



86067



95108



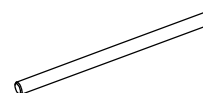
73117



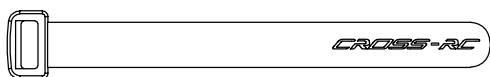
73118



95096



94089



91004 X1



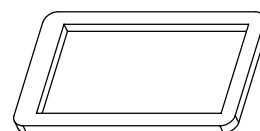
30411 X2



30402 X2



71294



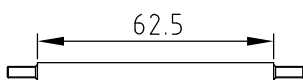
71293



41336 X4



41205



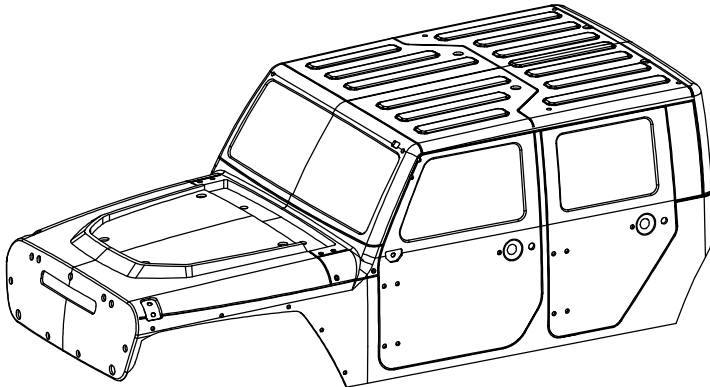
41780



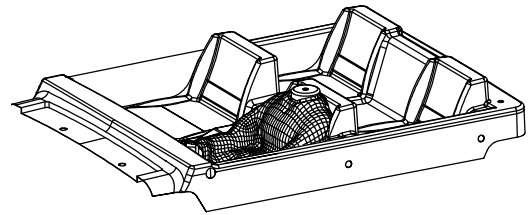
41781



223903 X4



239101



239301

11401



M3x4 X1

11205



M3x6 X4

11149



M1.6x6 X4

11106



M3x8 X1

11222



M2.5x18 X4

11216



M2.5x6 X6

11217



M2.5x10 X4

11413



M4x13.5 X10

11102



M2x6 X40

11206



M3x8 X28

11239



M3x8 X24

11303



M3x8 X18

11306



M3x10 X16

11207



M3x10 X28

11208



M3x12 X17

11209



M3x14 X9

11242



M3x14 X6

11210



M3x16 X12

11211



M3x18 X11

11212



M3x20 X2

11213



M3x22 X2

11214



M3x25 X7

14102



ø3xø7x0.5 X4

11215



M3x28 X6

11223



M3x30 X3

11233



M3x50 X1

11425



M4x20 X2

11103



M2x8 X16

11104



M2x10 X10

11133



M2x12 X1

11126



M2x14 X1

11130

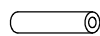


M2x20 X2

12307



M3 X3



91176 X3



42231 X3

11227



M2.5x8 X3

12206



M2 X4

11401



M3x4 X5



44172 X1



91175 X3

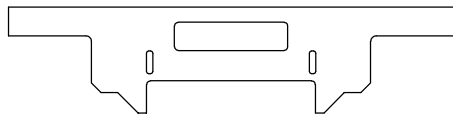
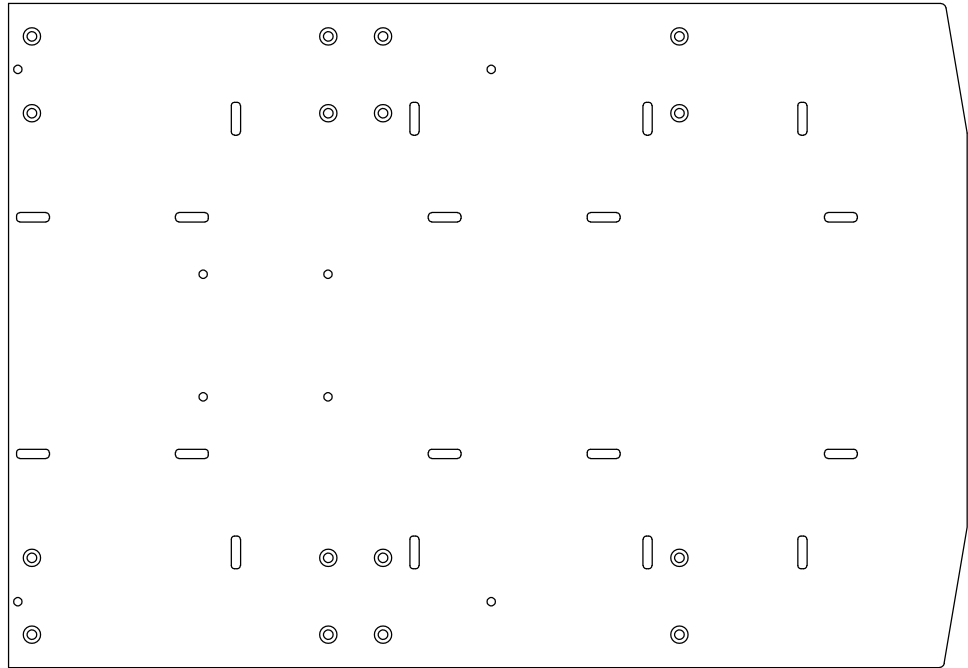


41819 X3

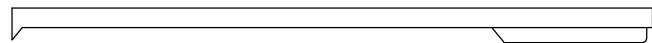


94056 X1

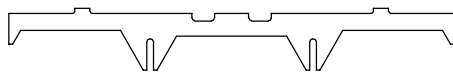
67200



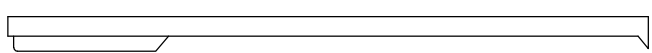
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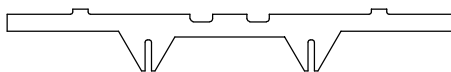
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67204



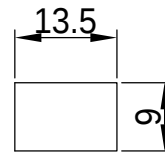
67203



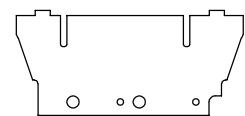
67205 X3



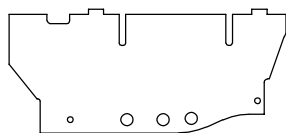
67206 X2



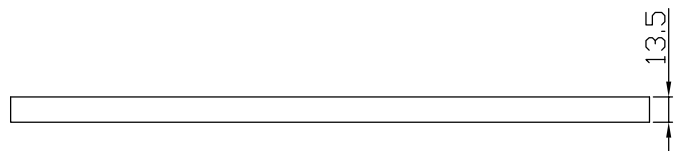
67211 X2



67207 X2



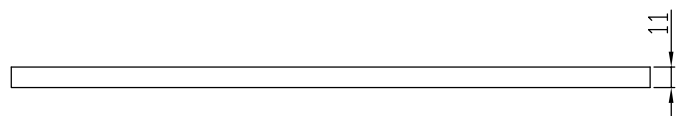
67208 X2



67209 X2



67212 X2



67210 X2

EMOXL2

1

- 15012

 $\phi 5 \times \phi 10 \times 4$ X5
- 72007

 $\phi 5 \times \phi 8 \times 0.3$ X3
- 11315

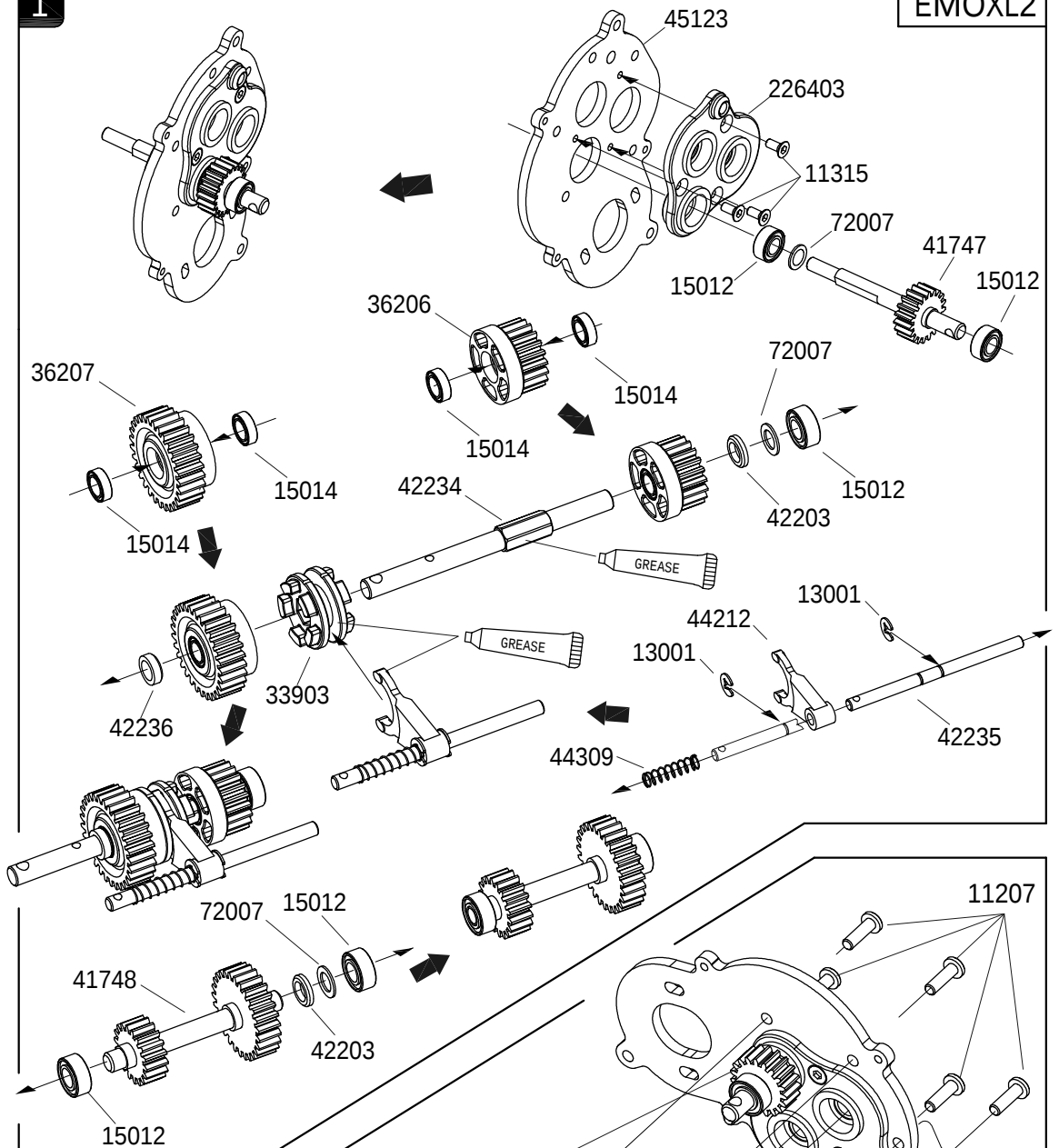
M2.5x6 X3
- 15014

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

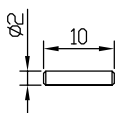


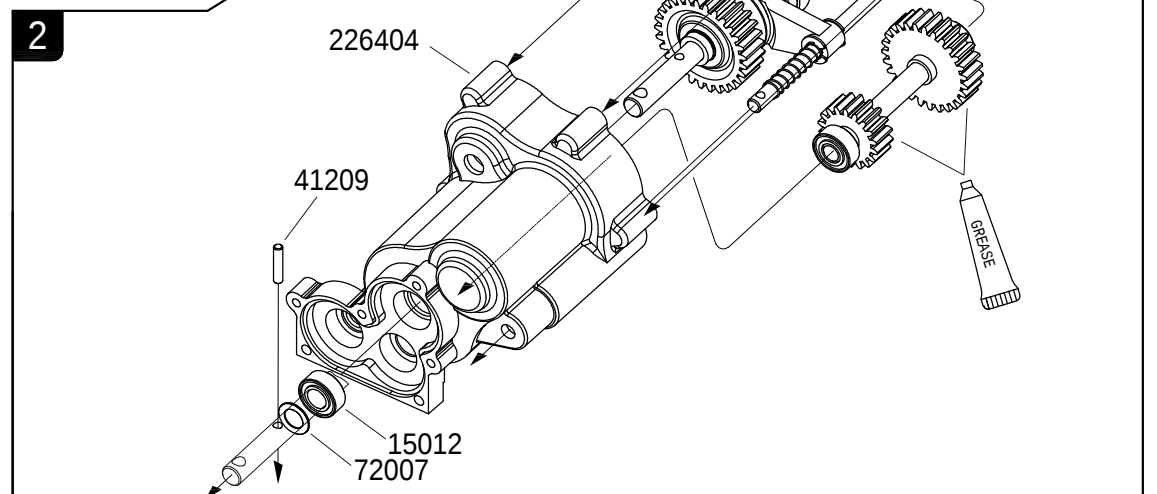
2

- 15012

 $\phi 5 \times \phi 10 \times 4$ X1
- 11207

M3x10 X5
- 72007

 $\phi 5 \times \phi 8 \times 0.3$ X1
- 41209 X1




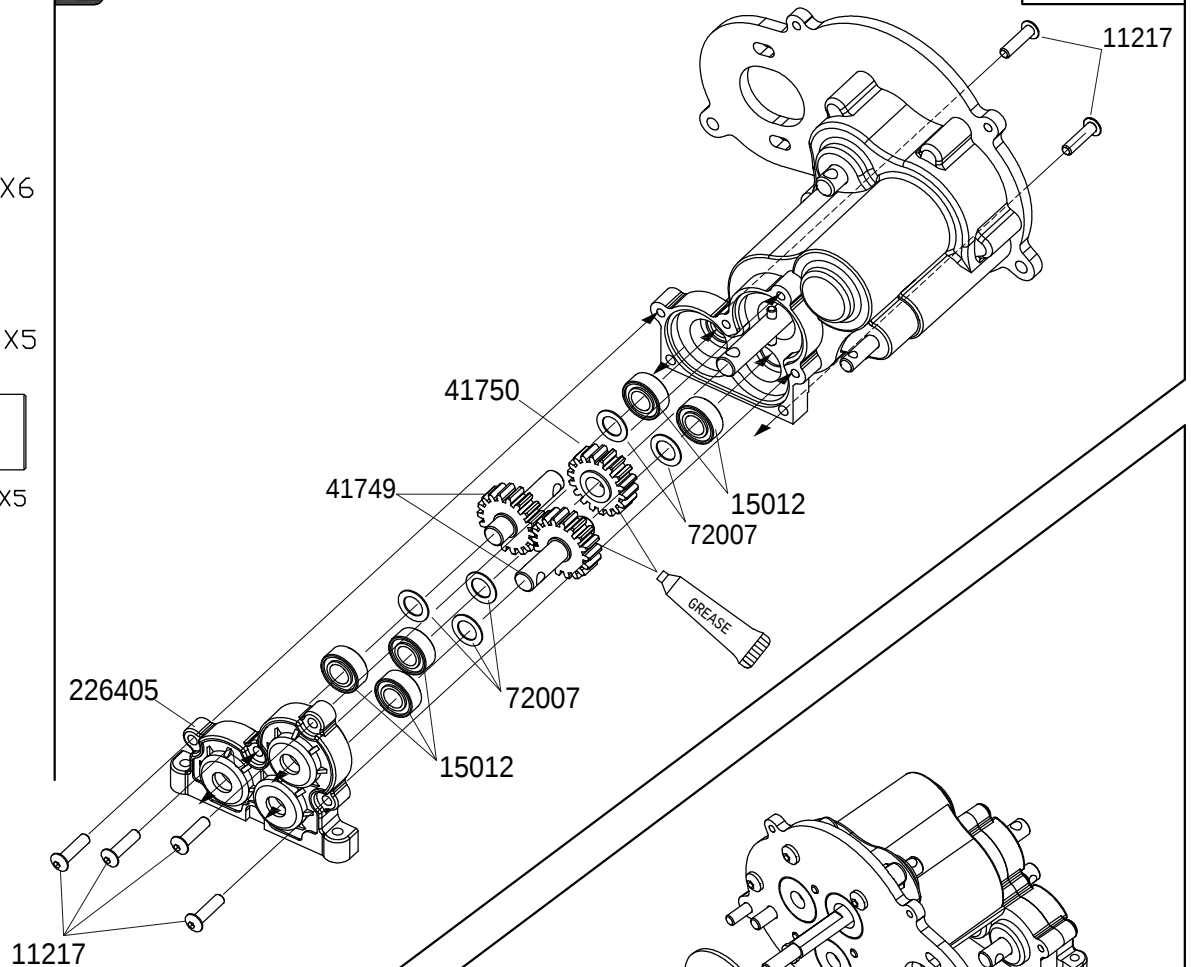
3

EMOXL2

11217 
M2.5x10 X6

72007 
ø5xø8x0.3 X5

15012 
ø5xø10x4 X5

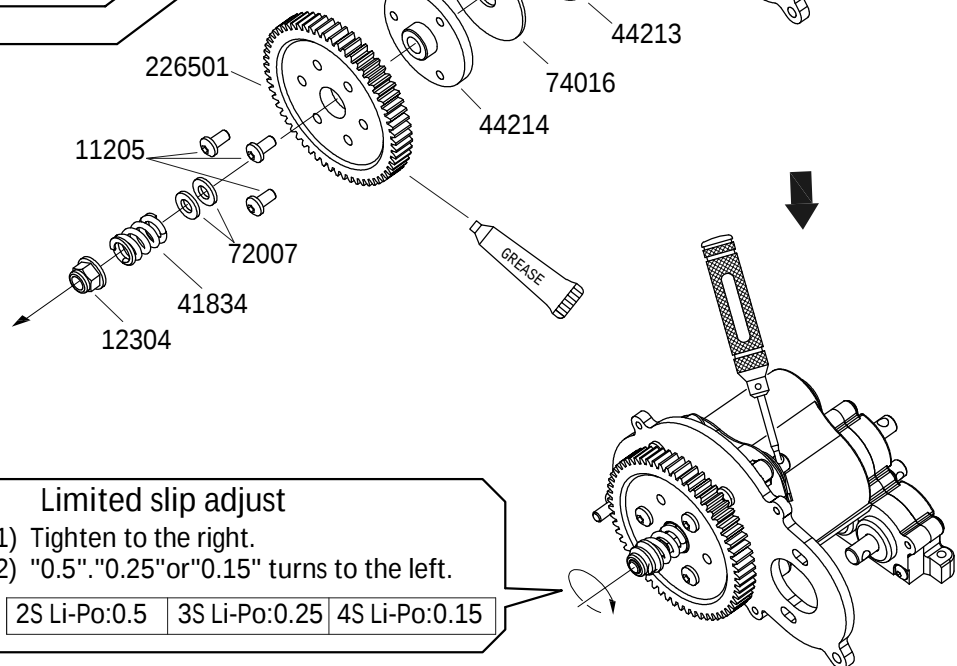


4

12304 
M4 X1

72007 
ø5xø8x0.3 X2

11205 
M3x6 X3

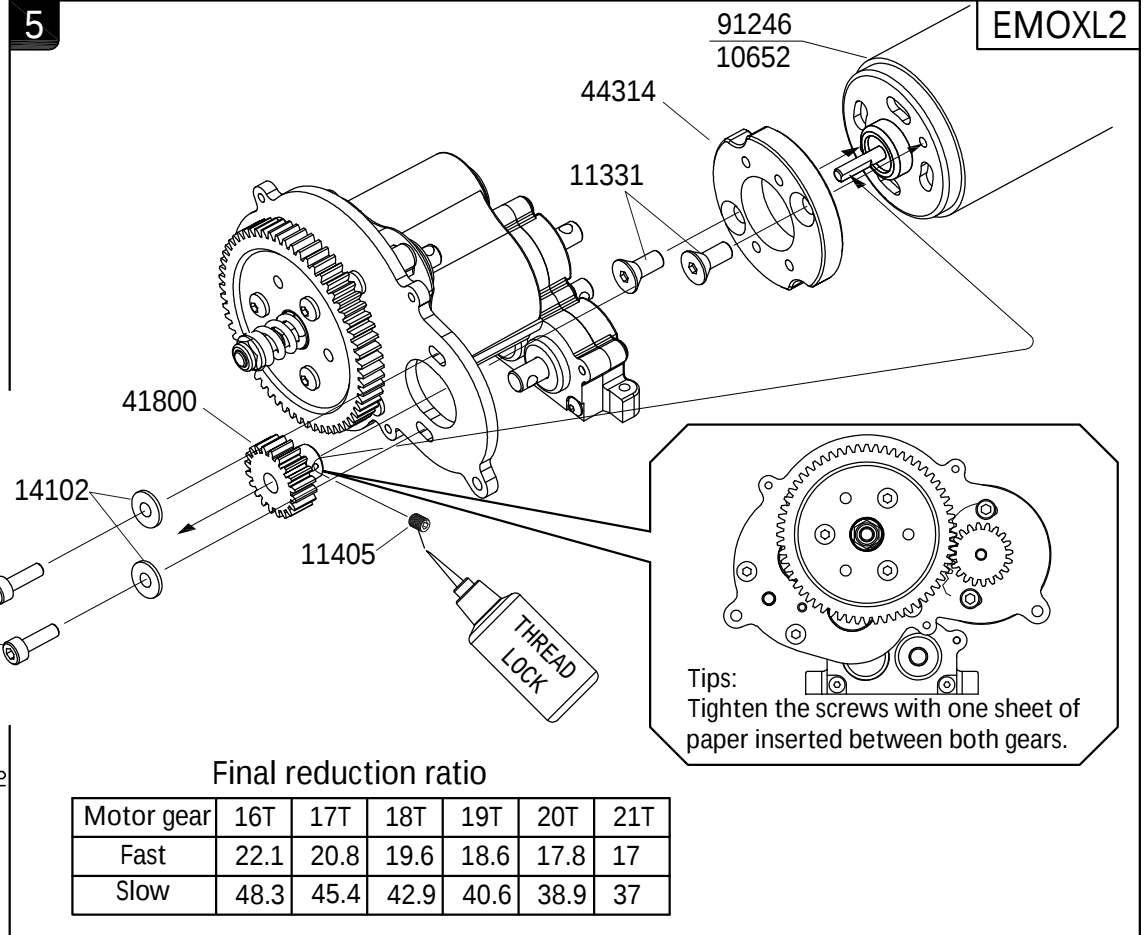


5

EMOXL2

- 11405  M4x4 X1
- 11331  M4x10 X2
- 11107  M3x10 X2

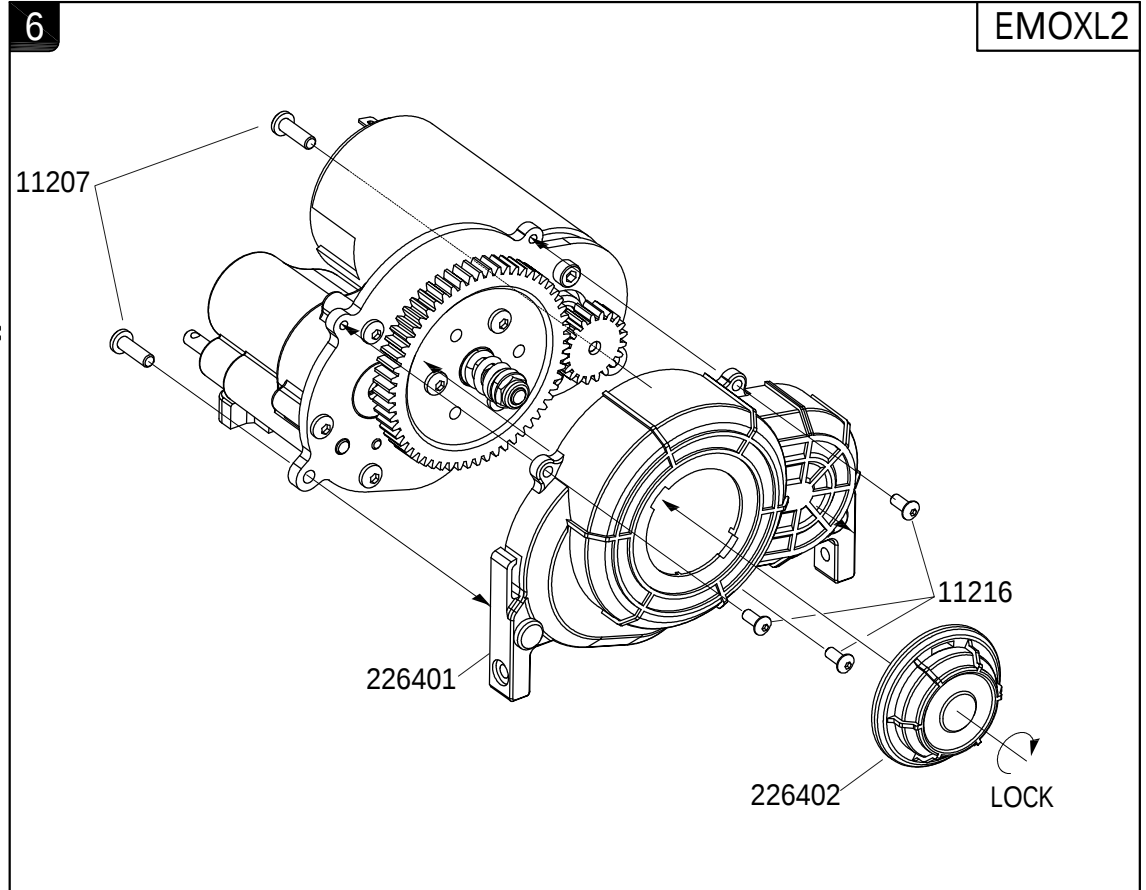
- 14102  Ø3xØ7x0.5 X2



6

EMOXL2

- 11207  M3x10 X2
- 11216  M2.5x6 X3

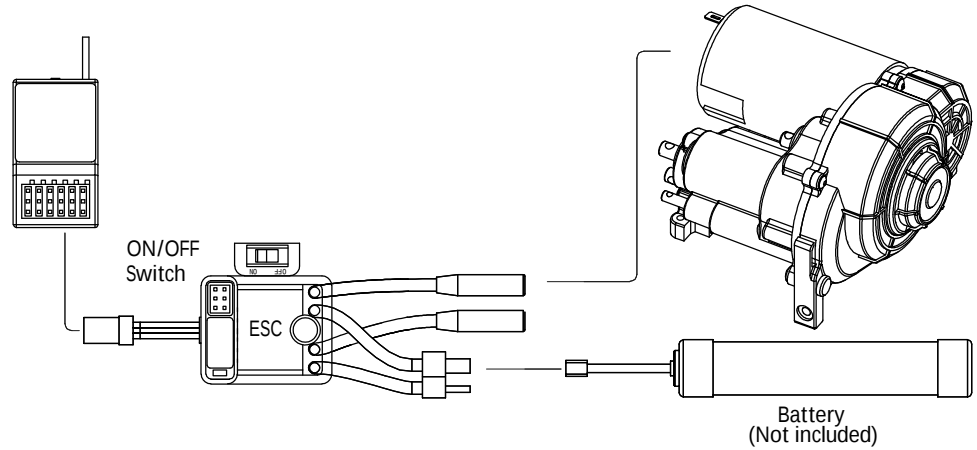


7

EMOXL2

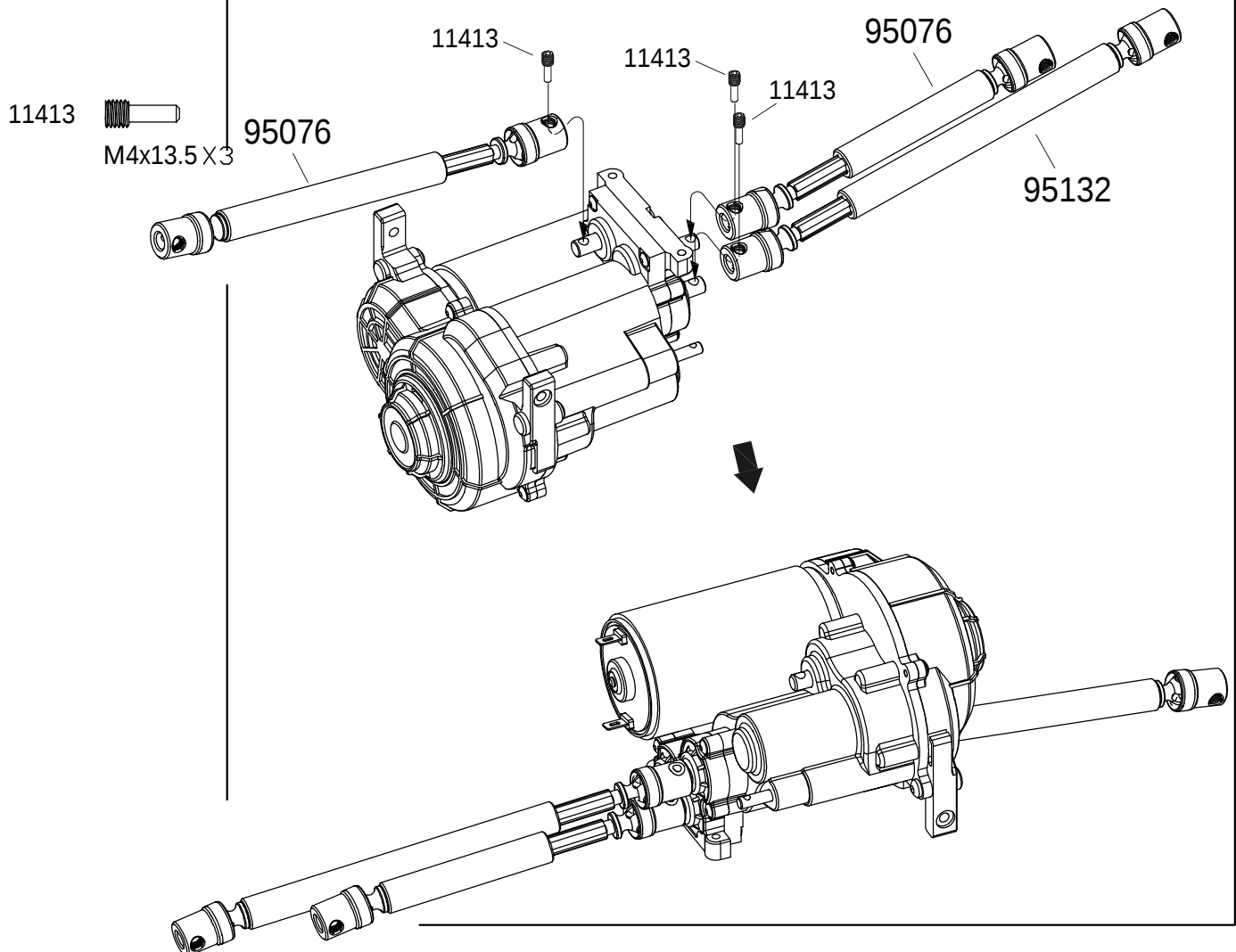
Tips:

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.



8

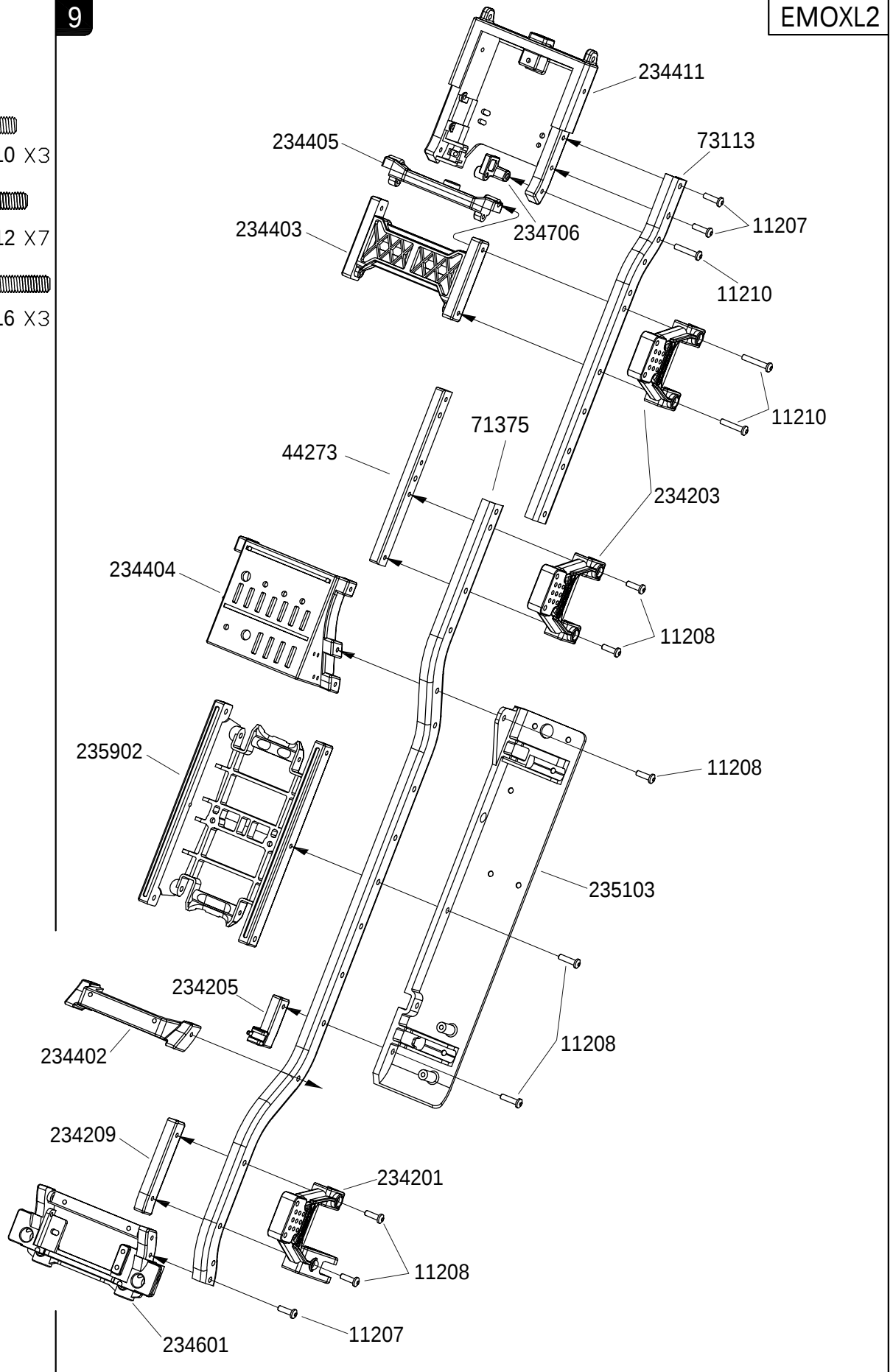
EMOXL2



9

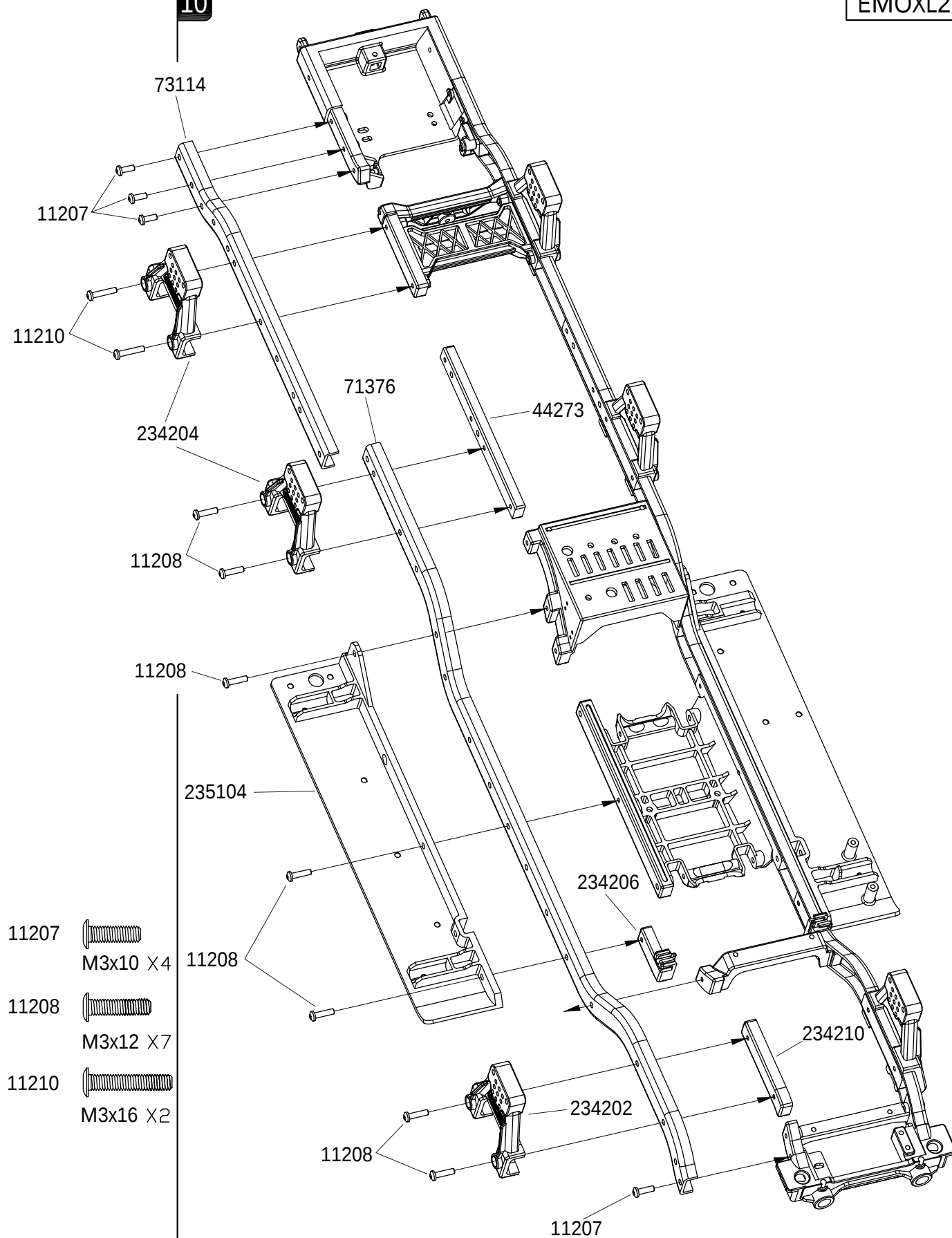
EMOXL2

- 11207 
M3x10 X3
- 11208 
M3x12 X7
- 11210 
M3x16 X3



10

EMOXL2



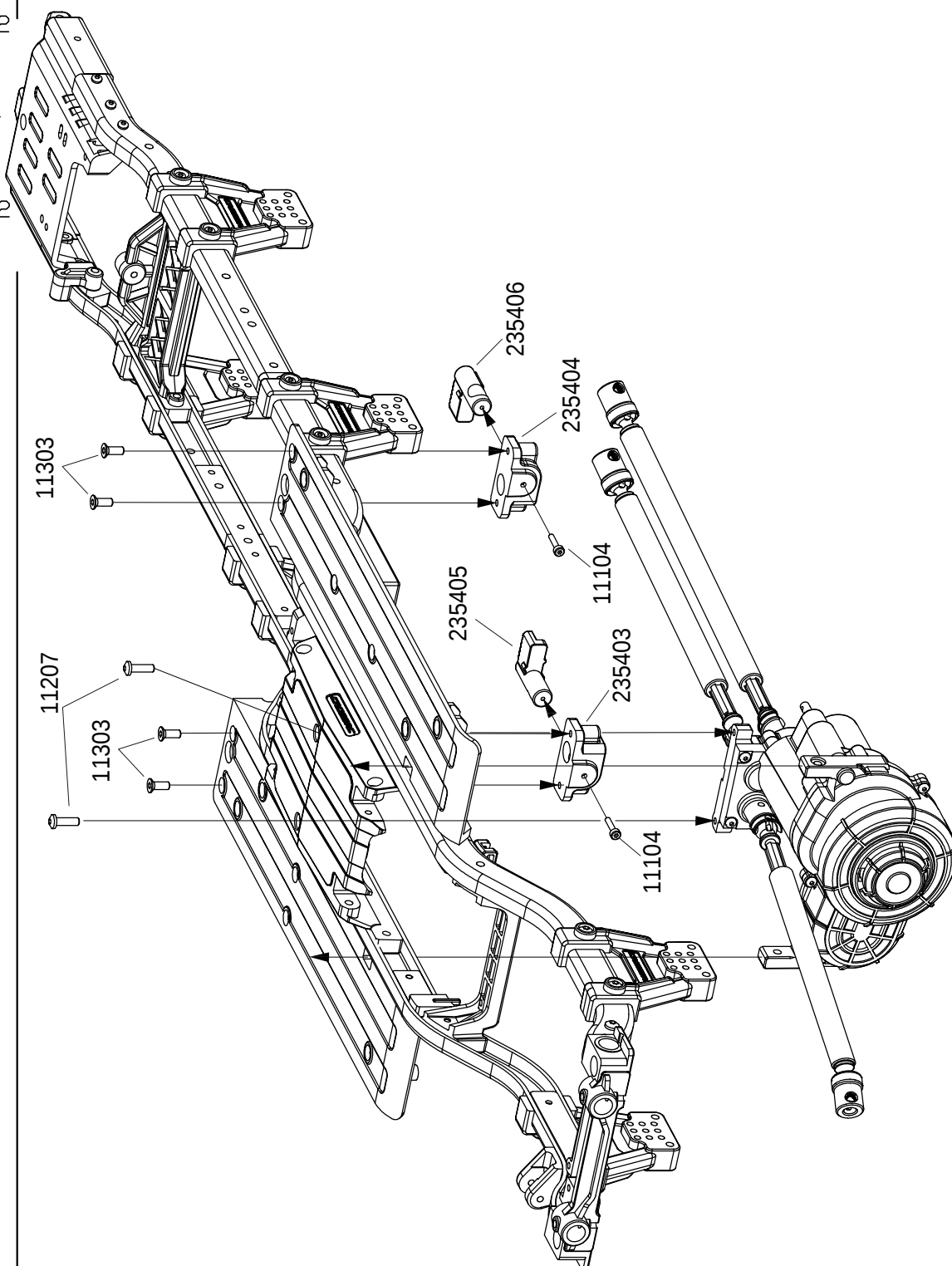
11

EMOXL2

11207 
M3x10 X2

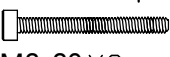
11303 
M3x8 X4

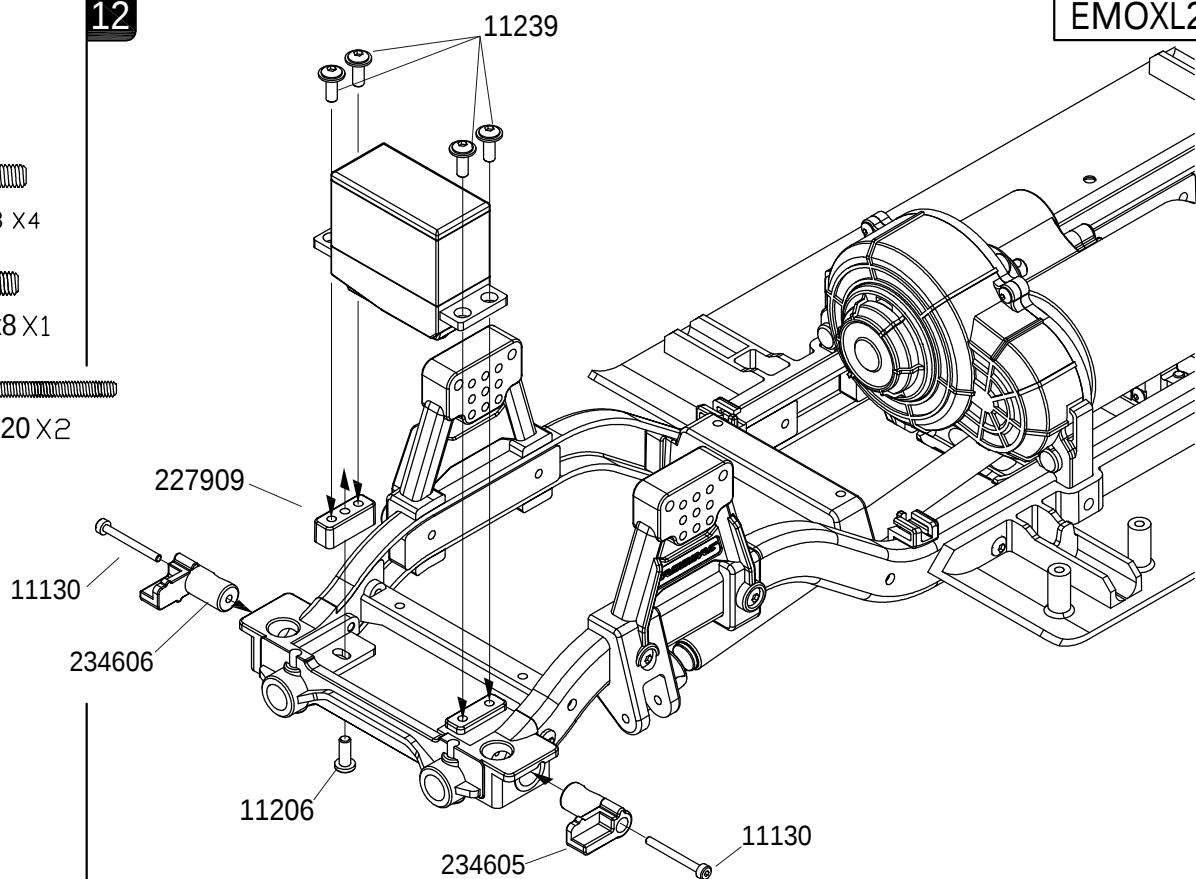
11104 
M2x10 X2



12

EMOXL2

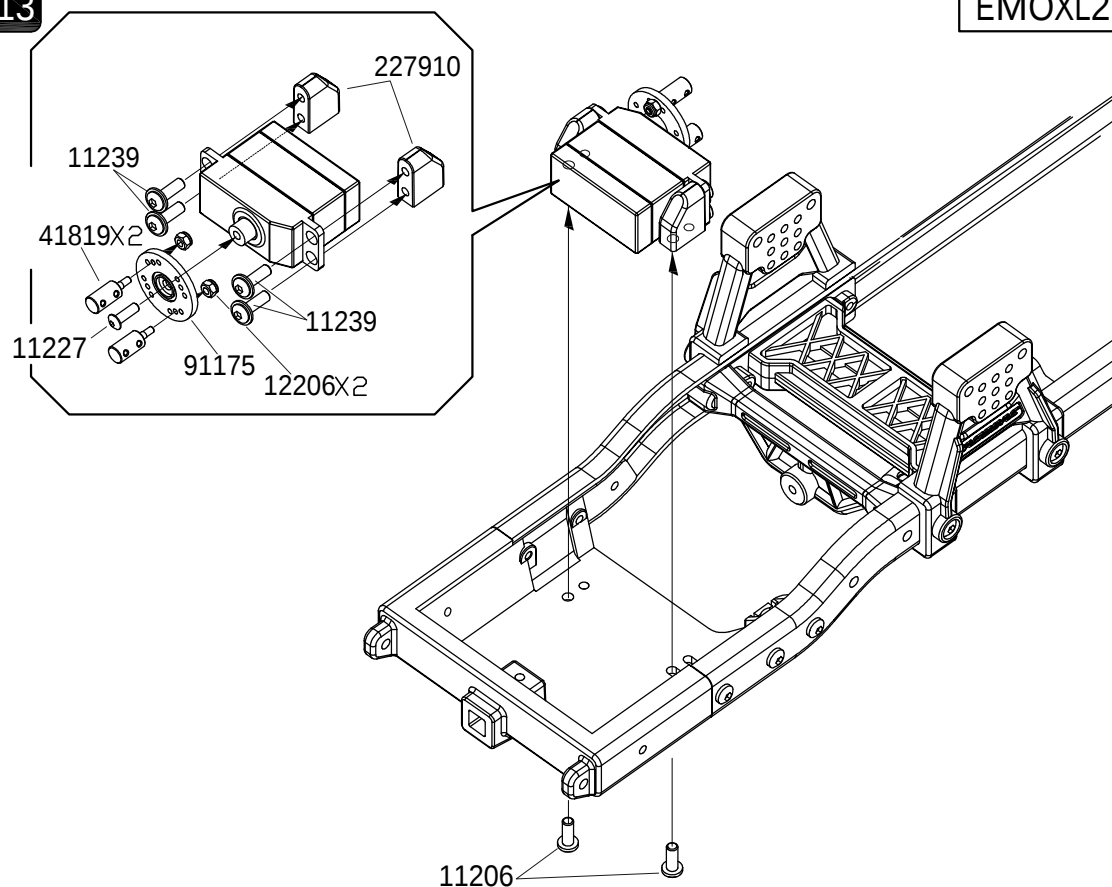
- 11239 
M3x8 X4
- 11206 
M3x8 X1
- 11130 
M2x20 X2



13

EMOXL2

- 11206 
M3x8 X2
- 11227 
M2.5x8 X1
- 12206 
M2 X2
- 41819 X2 
- 11239 
M3x8 X4



14

EMOXL2

13003  |
 $\phi 2.5 \times \phi 6 \times 0.4 \times 12$

14109 
 $\phi 4 \times \phi 2 \times 0.5 \times 6$

50021 X6 
 $\phi 7.2 \times \phi 3.4 \times \phi 1.9$

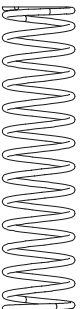
17001 X6 
 $\phi 8 \times \phi 6 \times \phi 1$

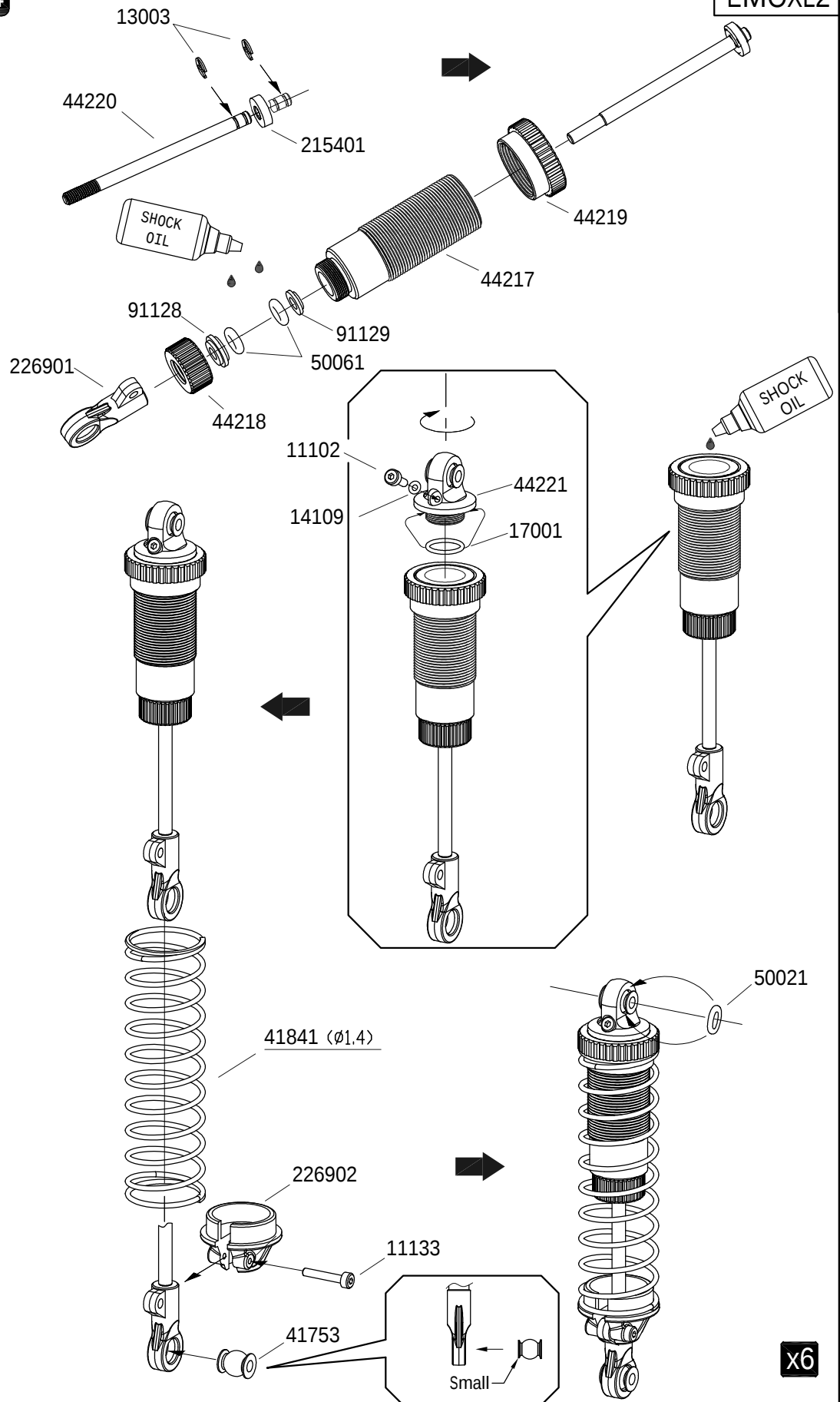
50061 X12 
 $\phi 7.5 \times \phi 2$

11133 
M2x12 X6

11102 
M2x6 X6

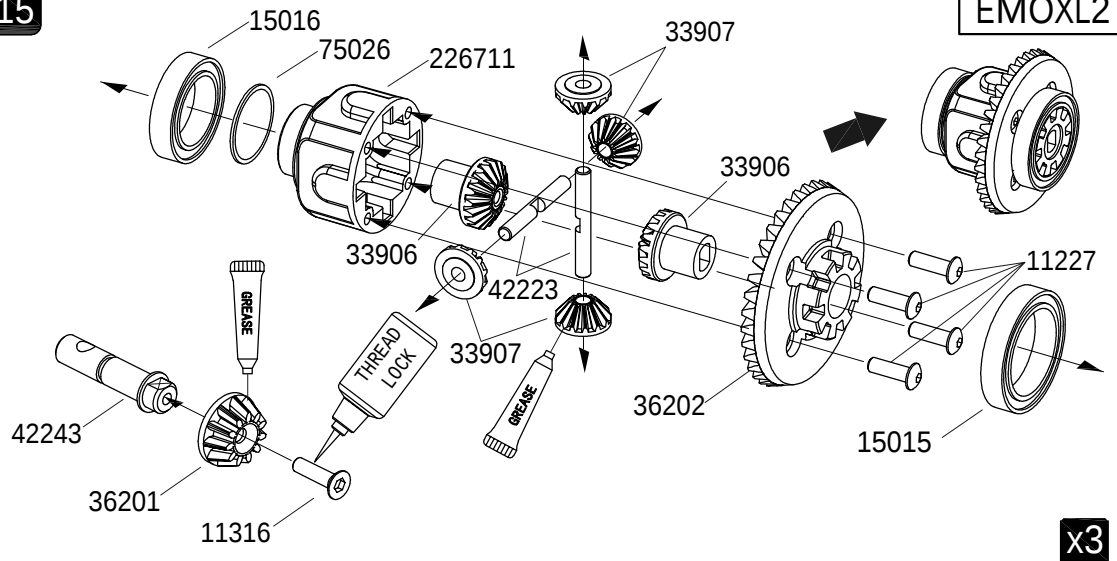
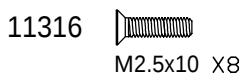
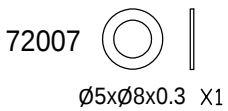
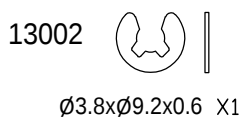
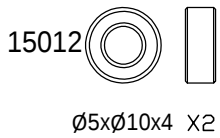
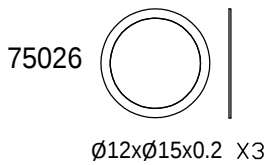
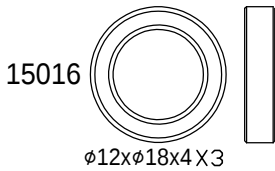
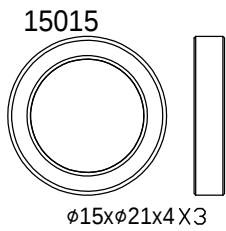
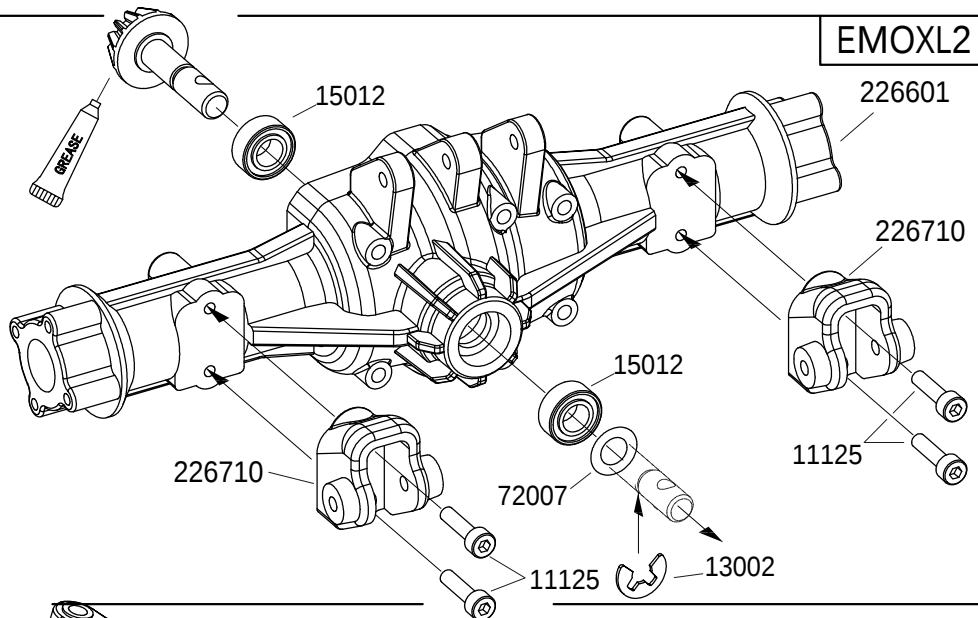
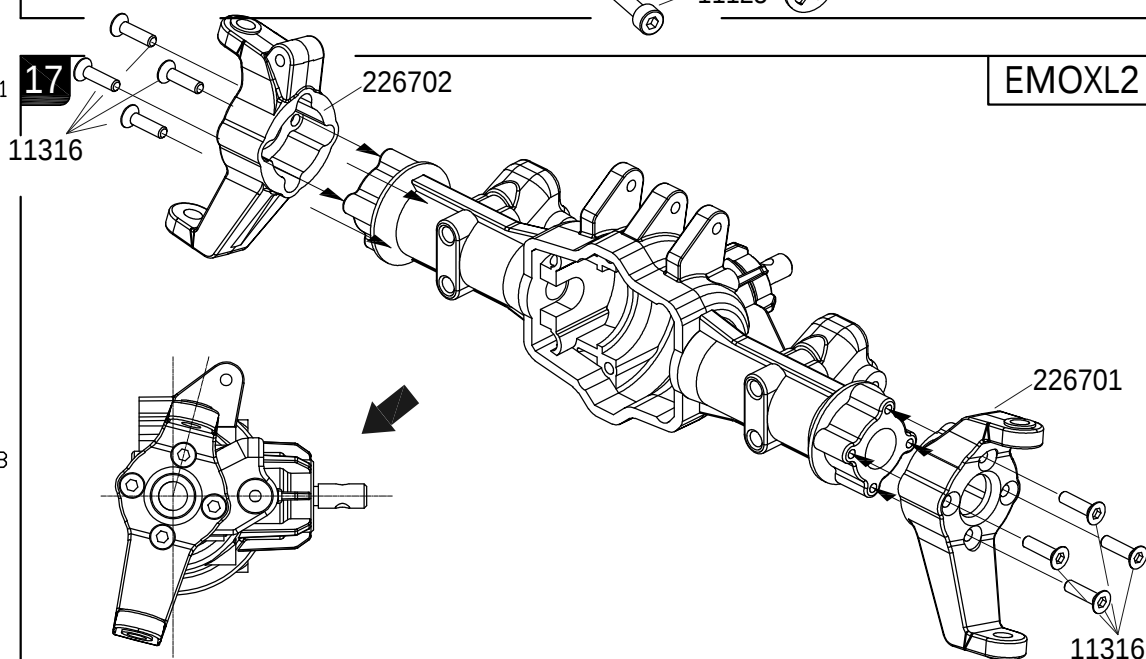
41753 X6 


41841 X6($\phi 1.4$)



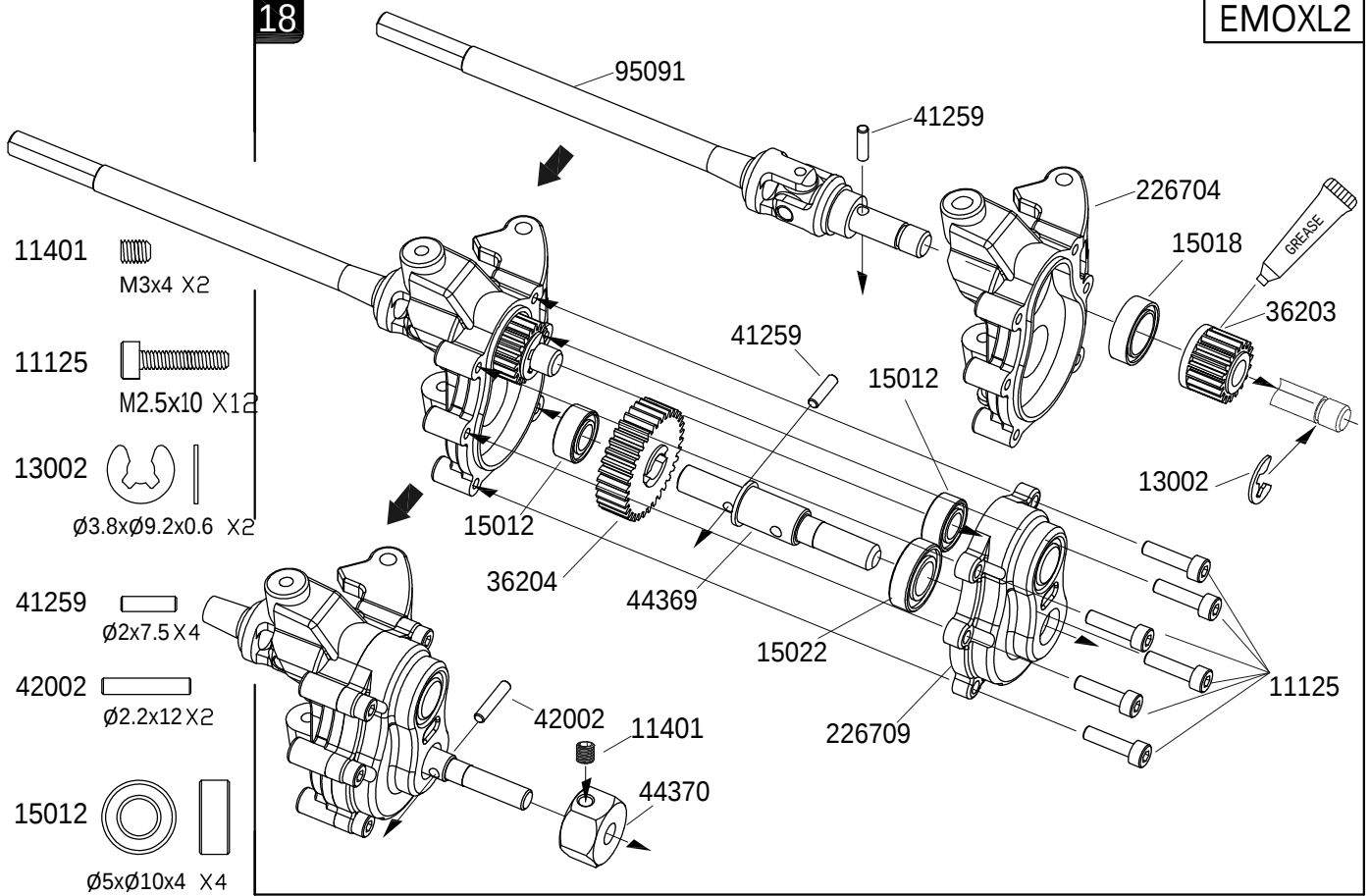
15**EMOXL2**

- 11125  M2.5x10 X4
- 11316  M2.5x10 X3
- 11227  M2.5x8 X12

**16****EMOXL2****17****EMOXL2**

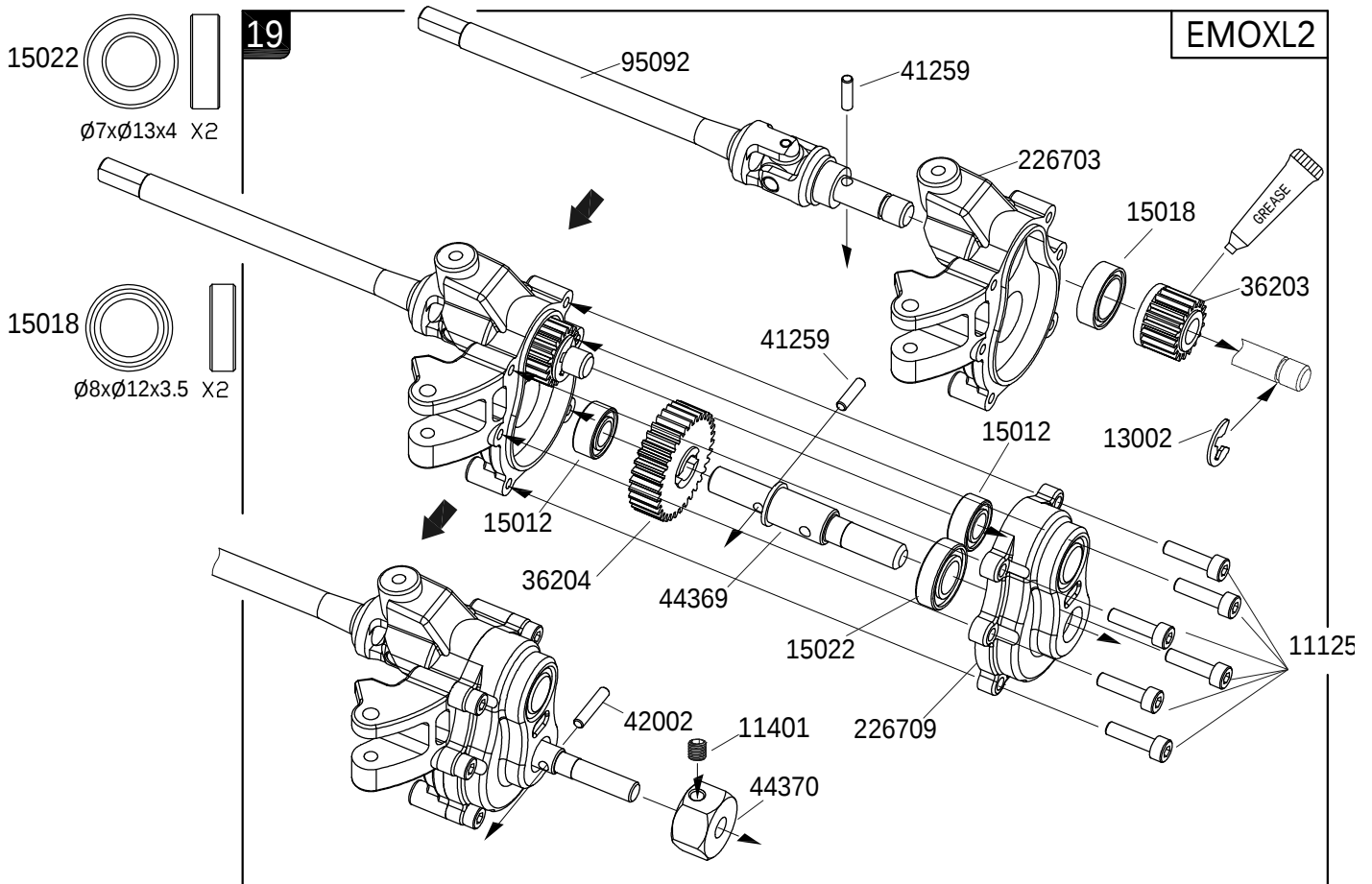
18

EMOXL2



19

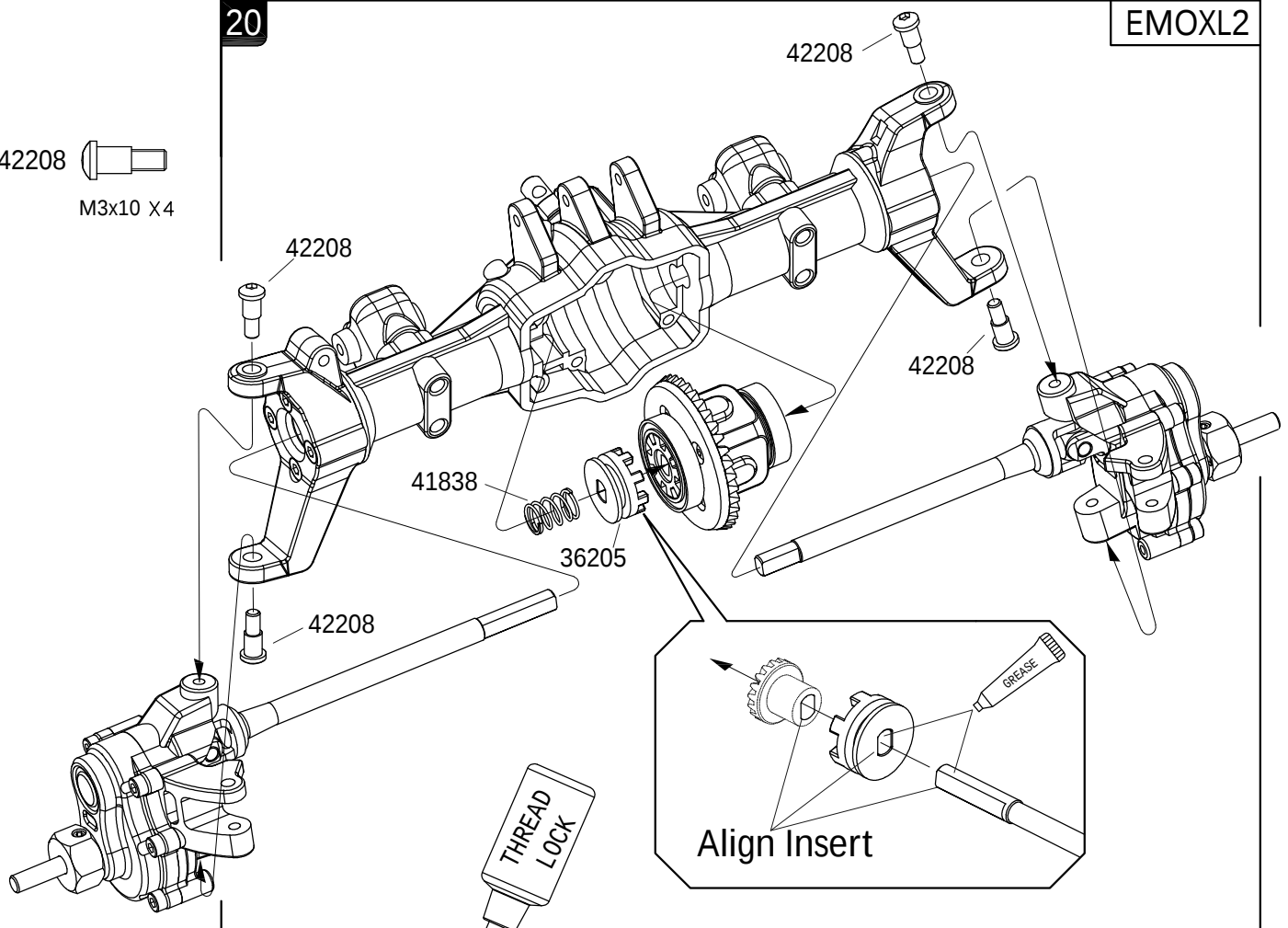
EMOXL2



20

EMOXL2

42208 
M3x10 X4



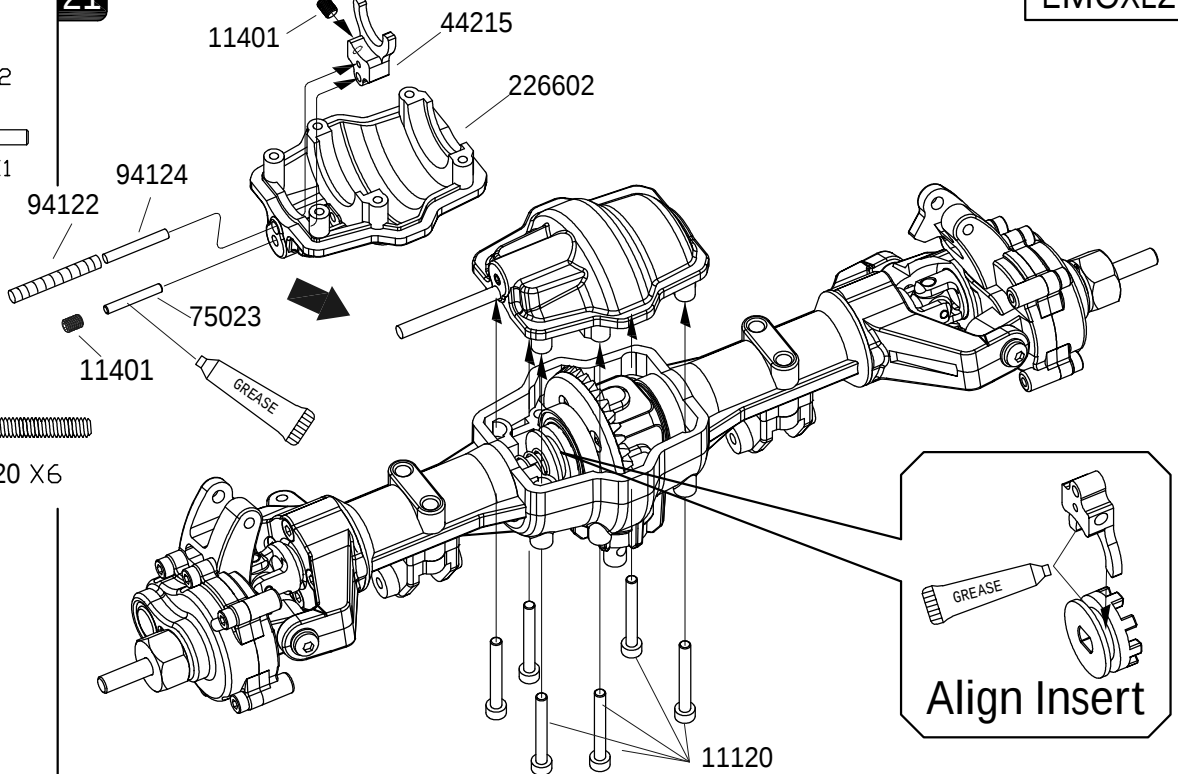
21

EMOXL2

11401 
M3x4 X2

75023 
Ø2x14 X1

11120 
M2.5x20 X6

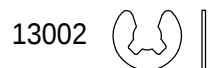


22

EMOXL2



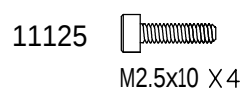
15012
 $\varnothing 5 \times \varnothing 10 \times 4$ X2



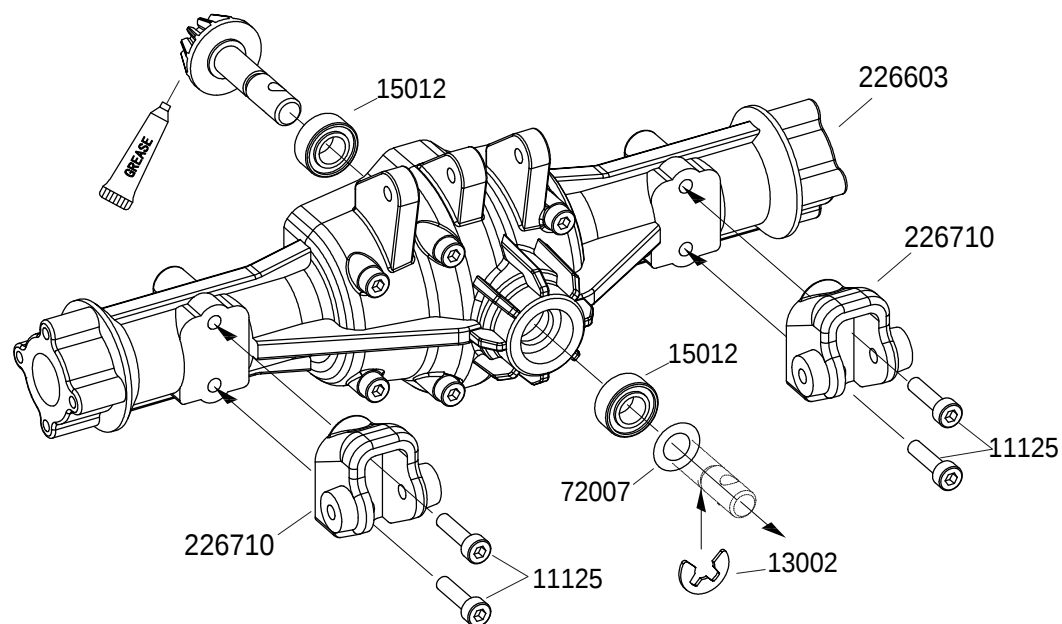
13002
 $\varnothing 3.8 \times \varnothing 9.2 \times 0.6$ X1



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

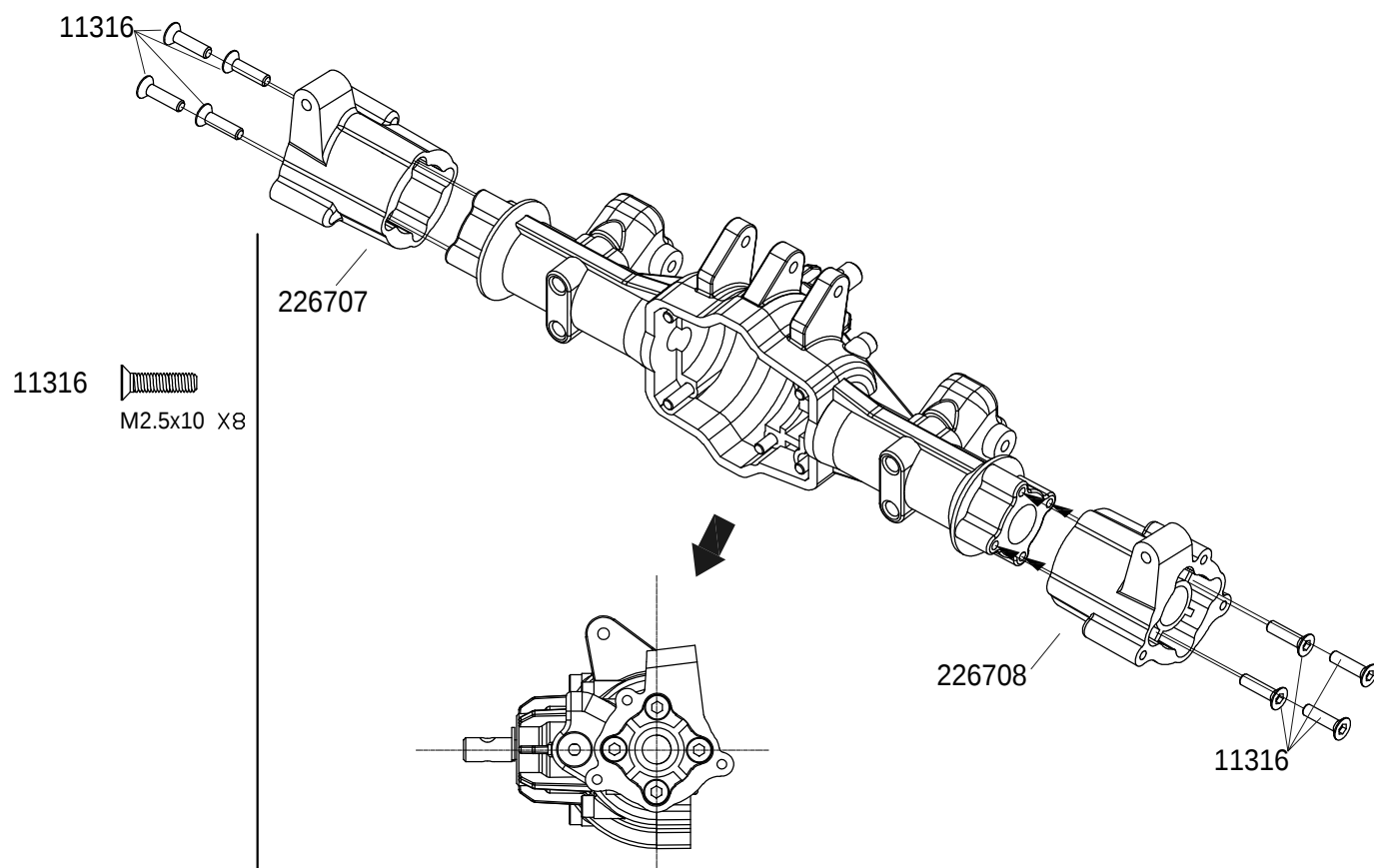


11125
 M2.5x10 X4



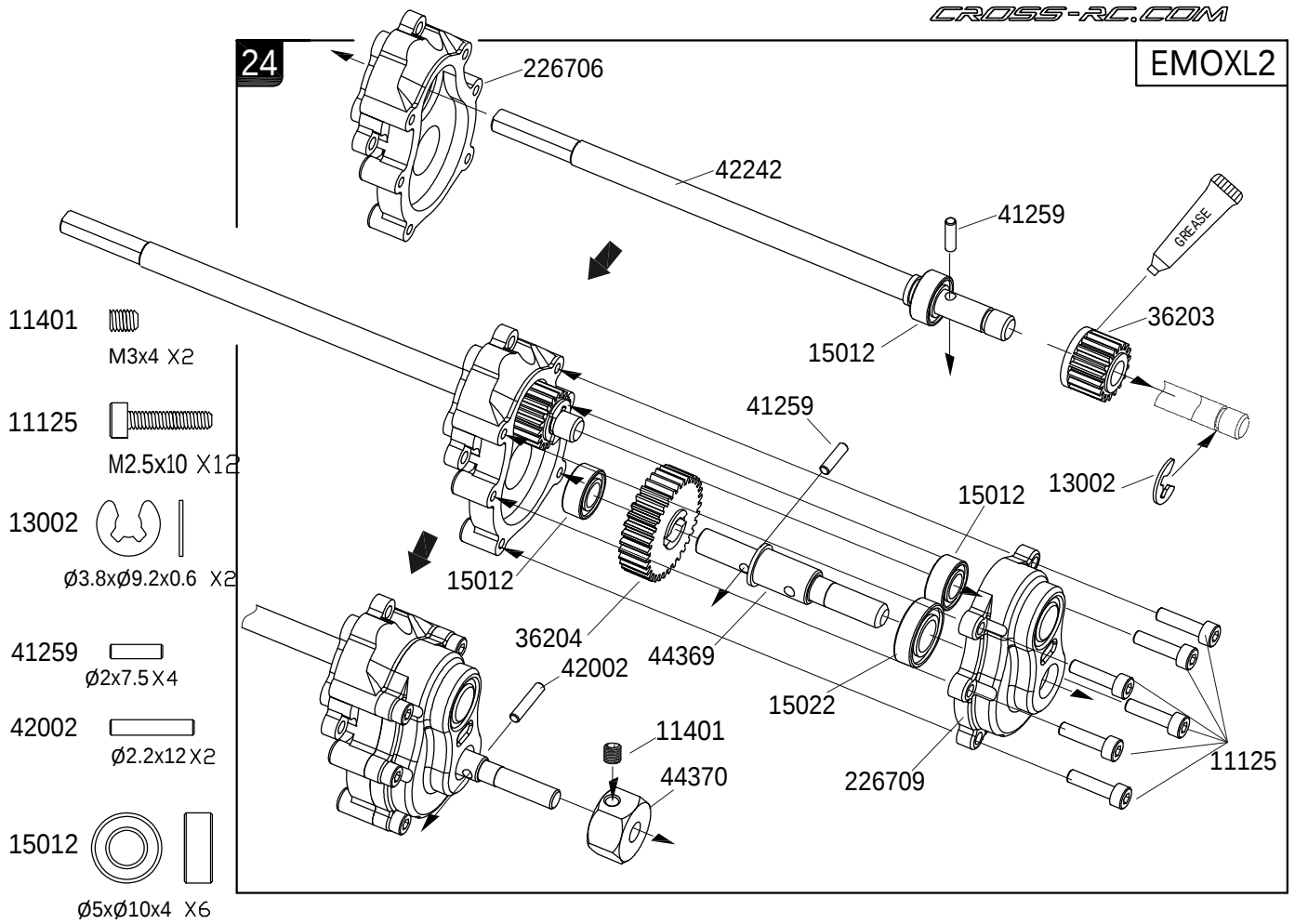
23

EMOXL2



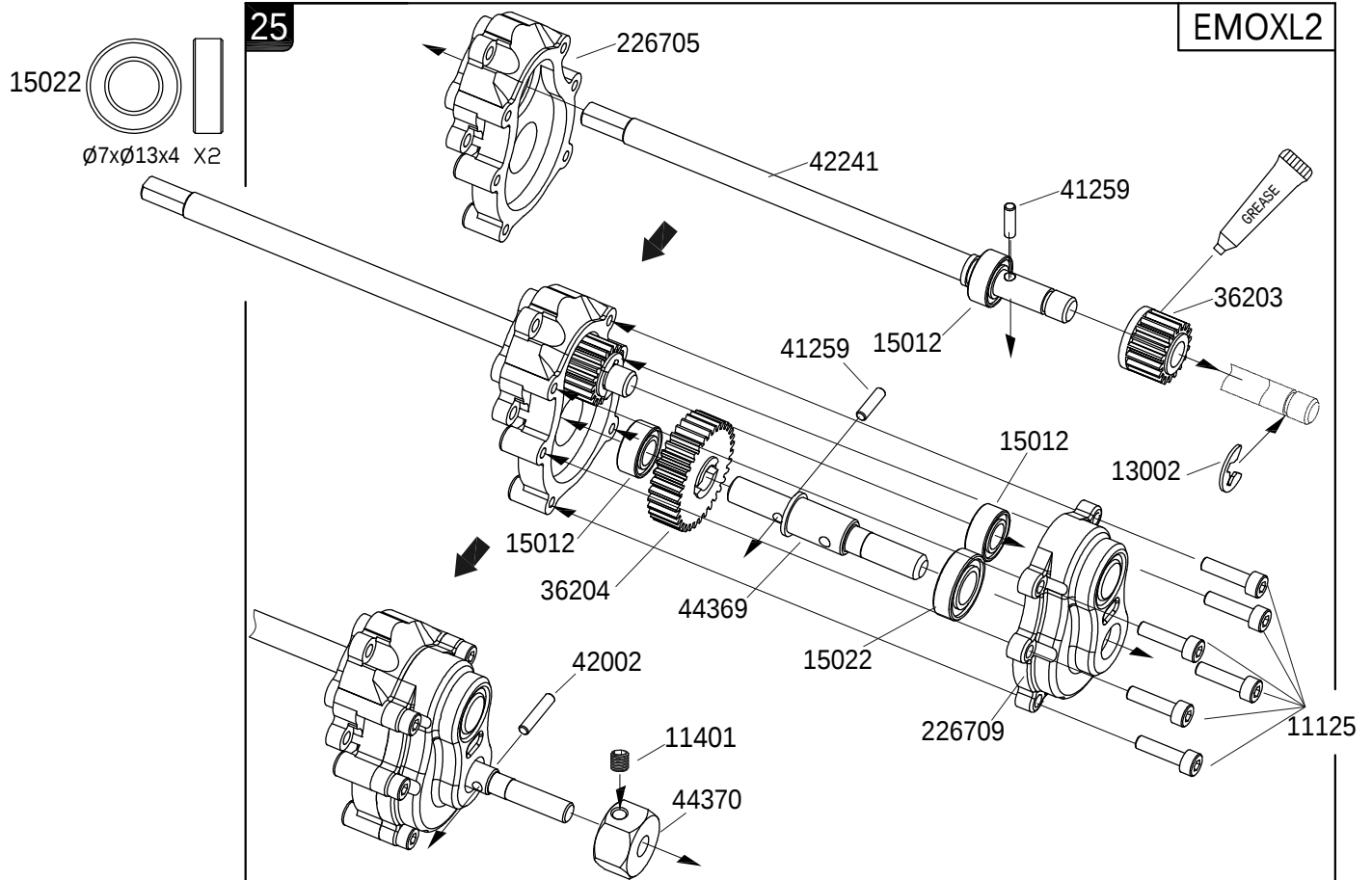
24

EMOXL2



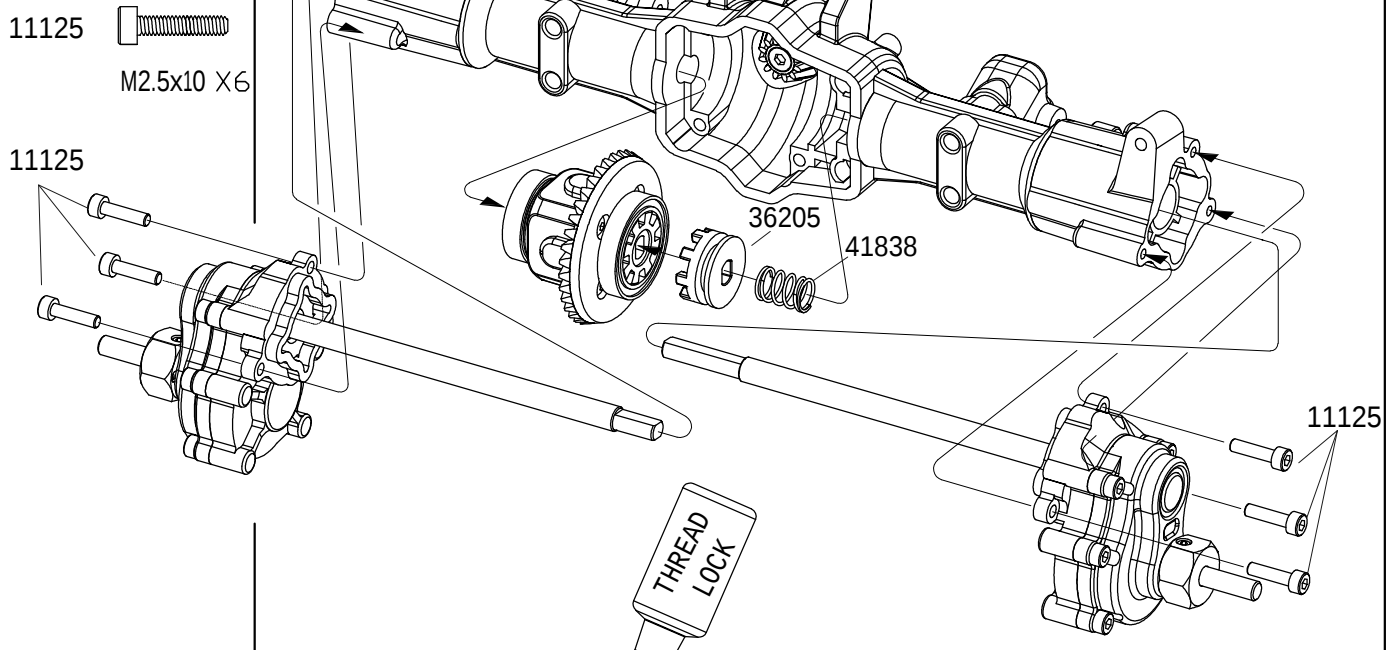
25

EMOXL2



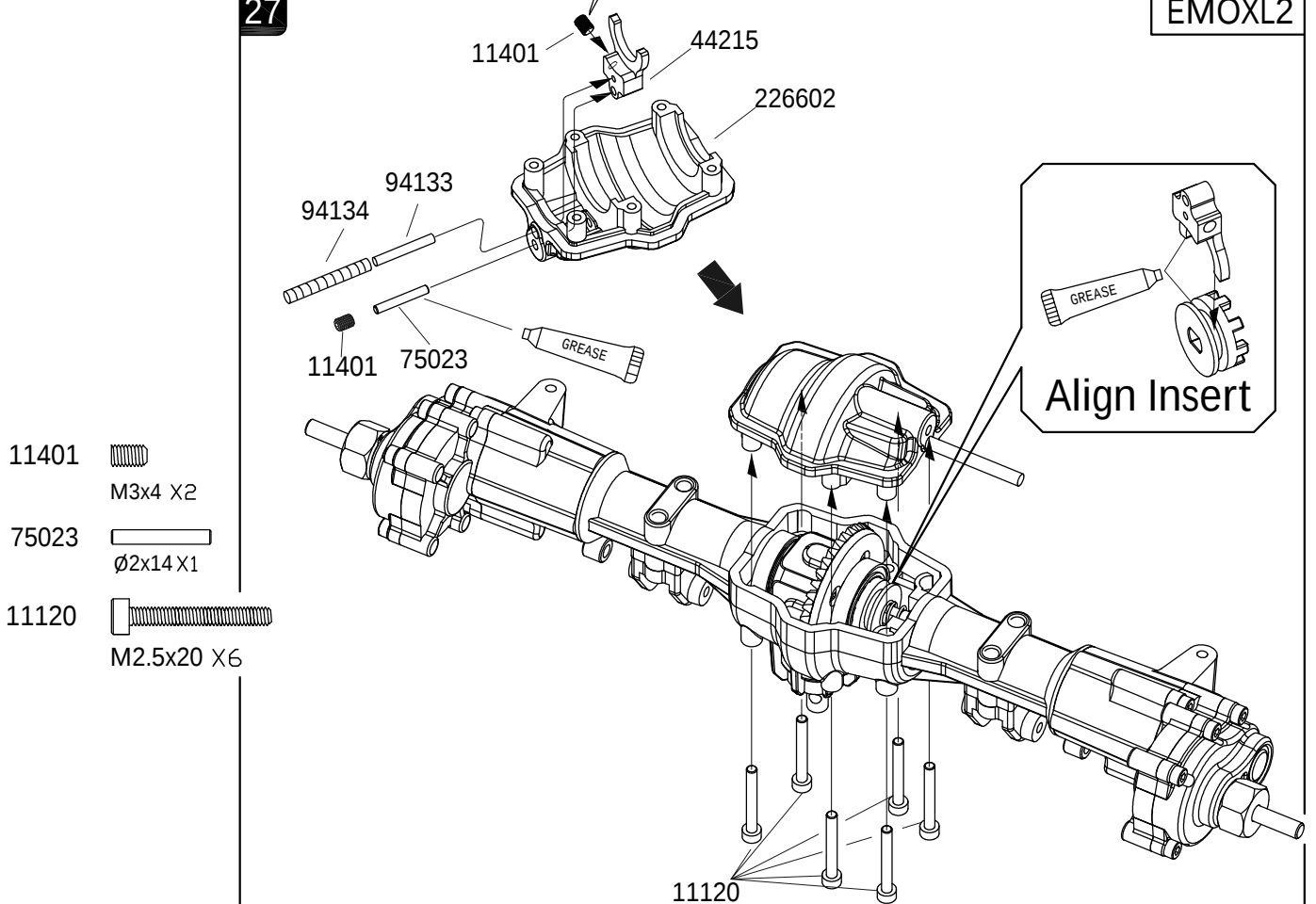
26

EMOXL2



27

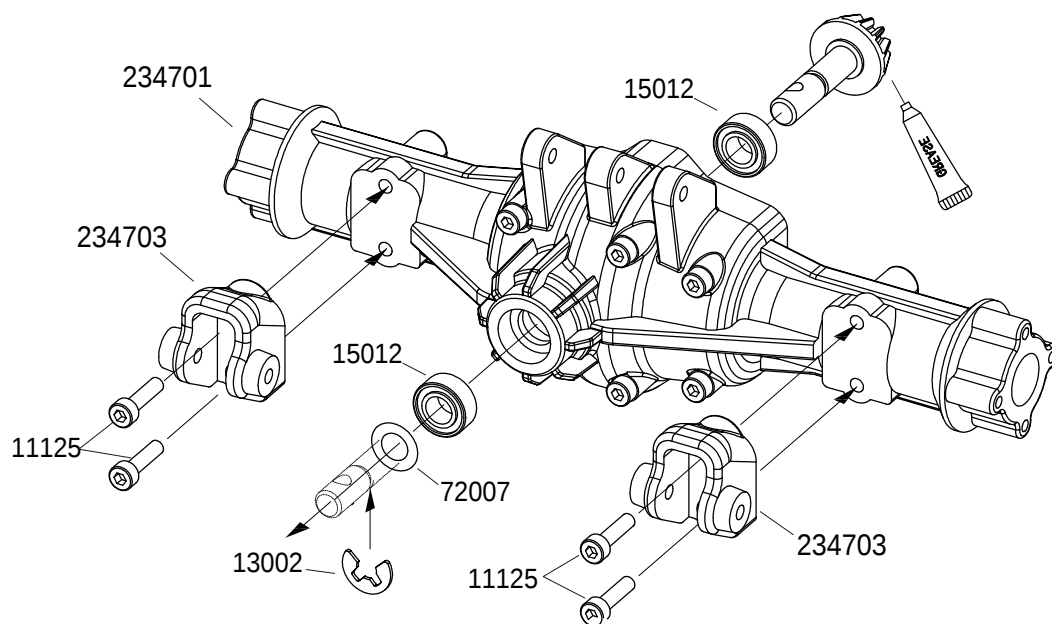
EMOXL2



28

EMOXL2

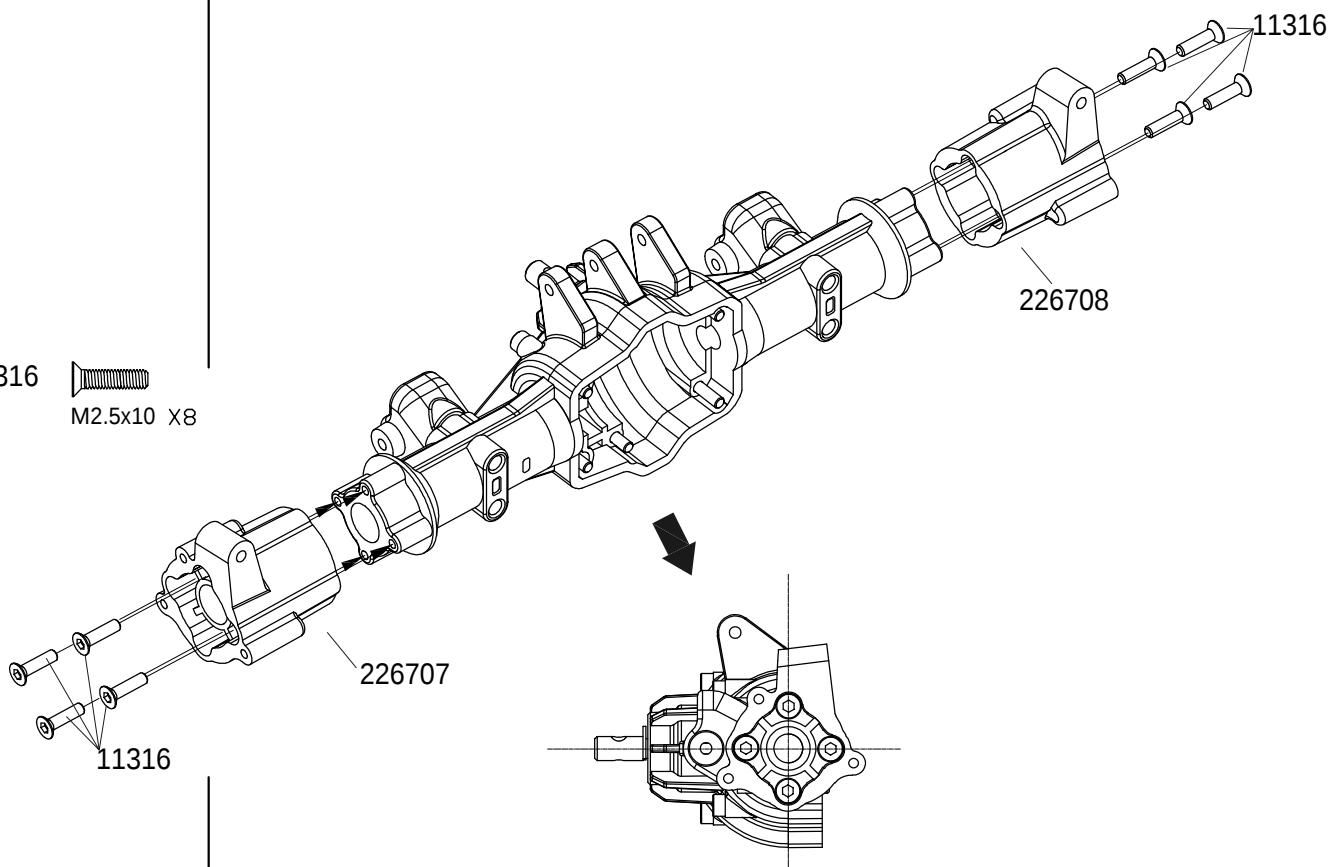
- 15012 
 $\varnothing 5 \times \varnothing 10 \times 4$ X2
- 13002 
 $\varnothing 3.8 \times \varnothing 9.2 \times 0.6$ X1
- 72007 
 $\varnothing 5 \times \varnothing 8 \times 0.3$ X1
- 11125 
M2.5x10 X4



29

EMOXL2

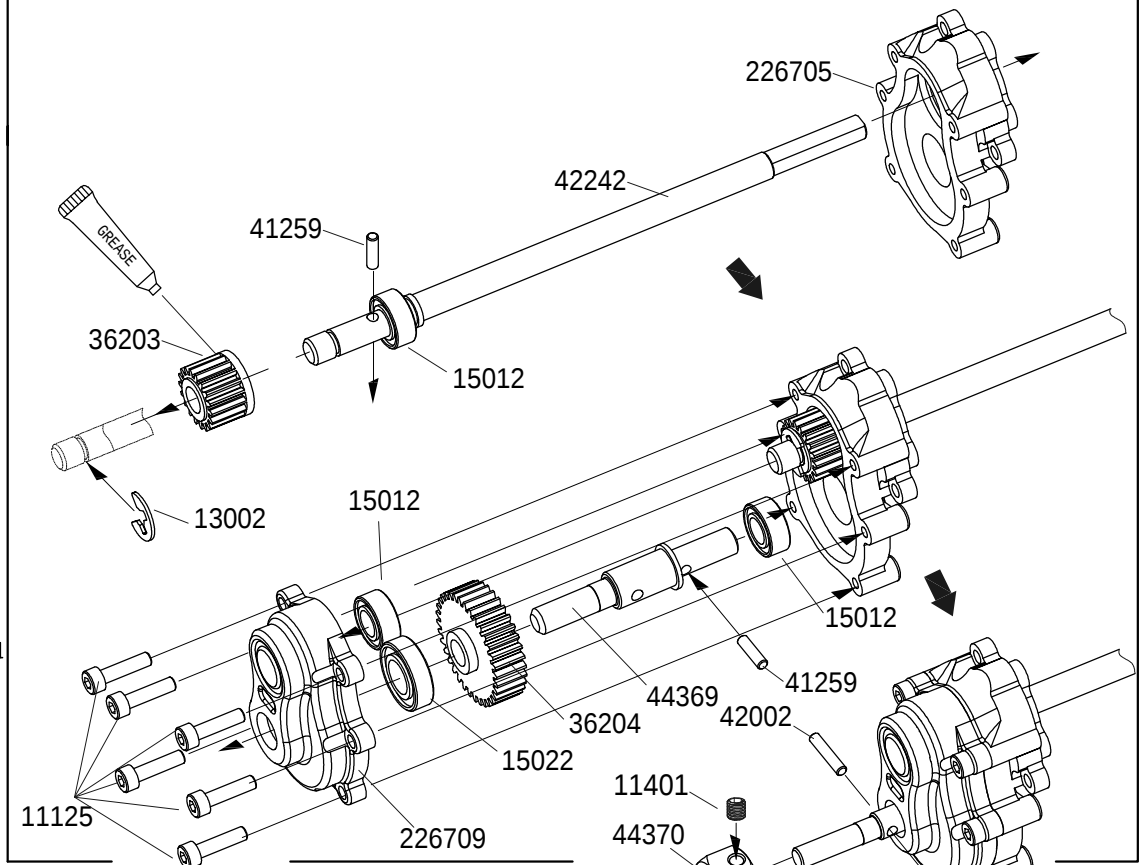
- 11316 
M2.5x10 X8



30

EMOXL2

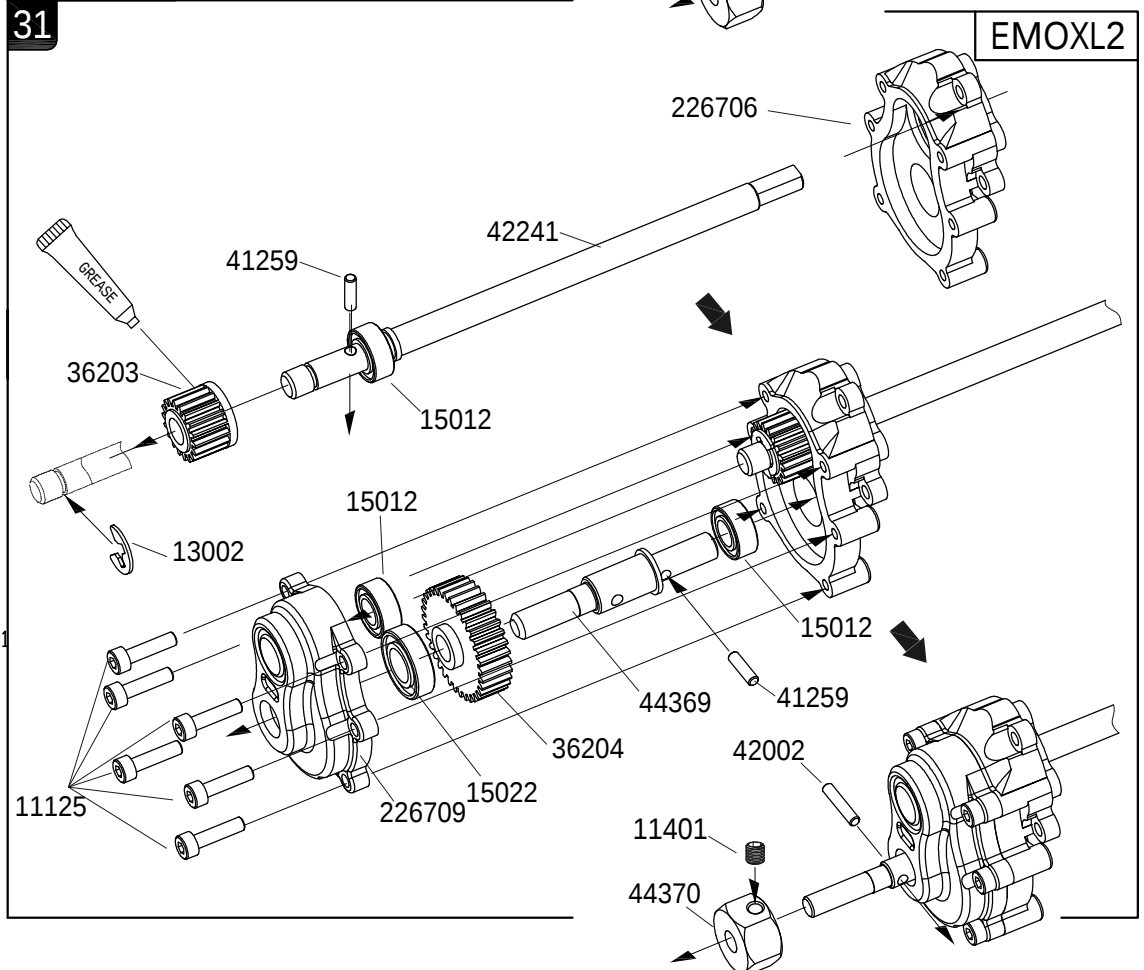
- 11401  M3x4 X1
- 11125  M2.5x10 X6
- 15012  $\varnothing 5 \times \varnothing 10 \times 4$ X3
- 15022  $\varnothing 7 \times \varnothing 13 \times 4$ X2
- 13002  $\varnothing 3.8 \times \varnothing 9.2 \times 0.6$ X1
- 41259  $\varnothing 2 \times 7.5 \times 2$
- 42002  $\varnothing 2.2 \times 12 \times 1$



31

EMOXL2

- 11401  M3x4 X1
- 15012  $\varnothing 5 \times \varnothing 10 \times 4$ X3
- 11125  M2.5x10 X6
- 13002  $\varnothing 3.8 \times \varnothing 9.2 \times 0.6$ X1
- 41259  $\varnothing 2 \times 7.5 \times 2$
- 42002  $\varnothing 2.2 \times 12 \times 1$



32

EMOXL2

11125



M2.5x10 X6

11125



11125



41838



36205



33

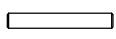
EMOXL2

11401



M3x4 X2

75023

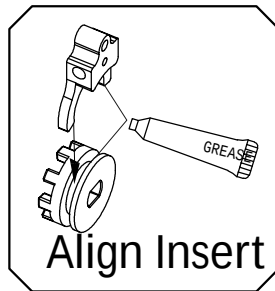


Ø2x14 X1

11120



M2.5x20 X6



Align Insert

GREASE

44215



11401

234702



94085



94087



GREASE

75023

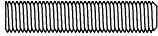


11401

11120

34

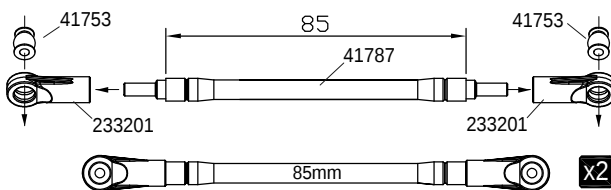
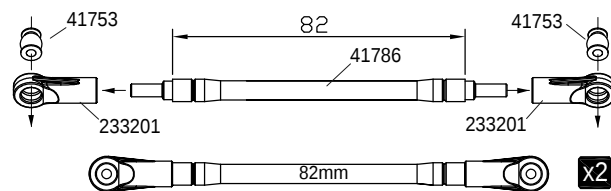
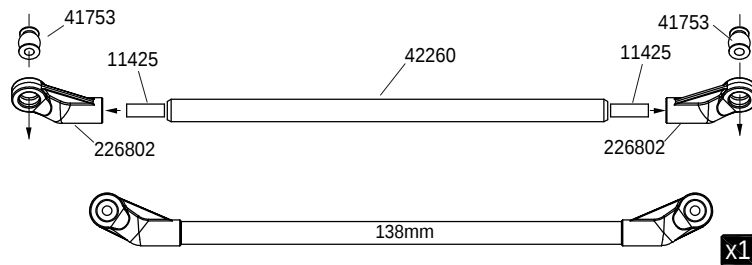
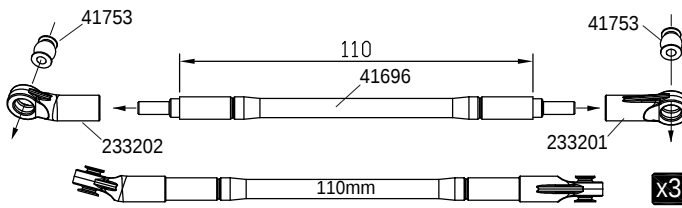
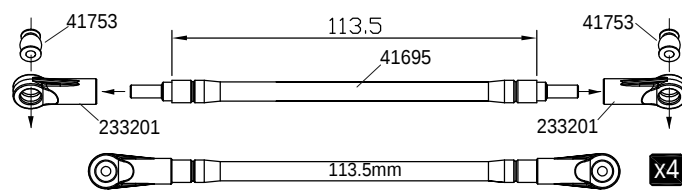
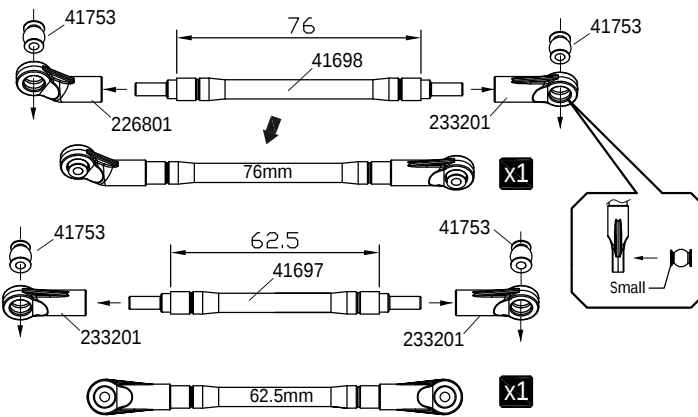
EMOXL2

11425 

M4x20 X2



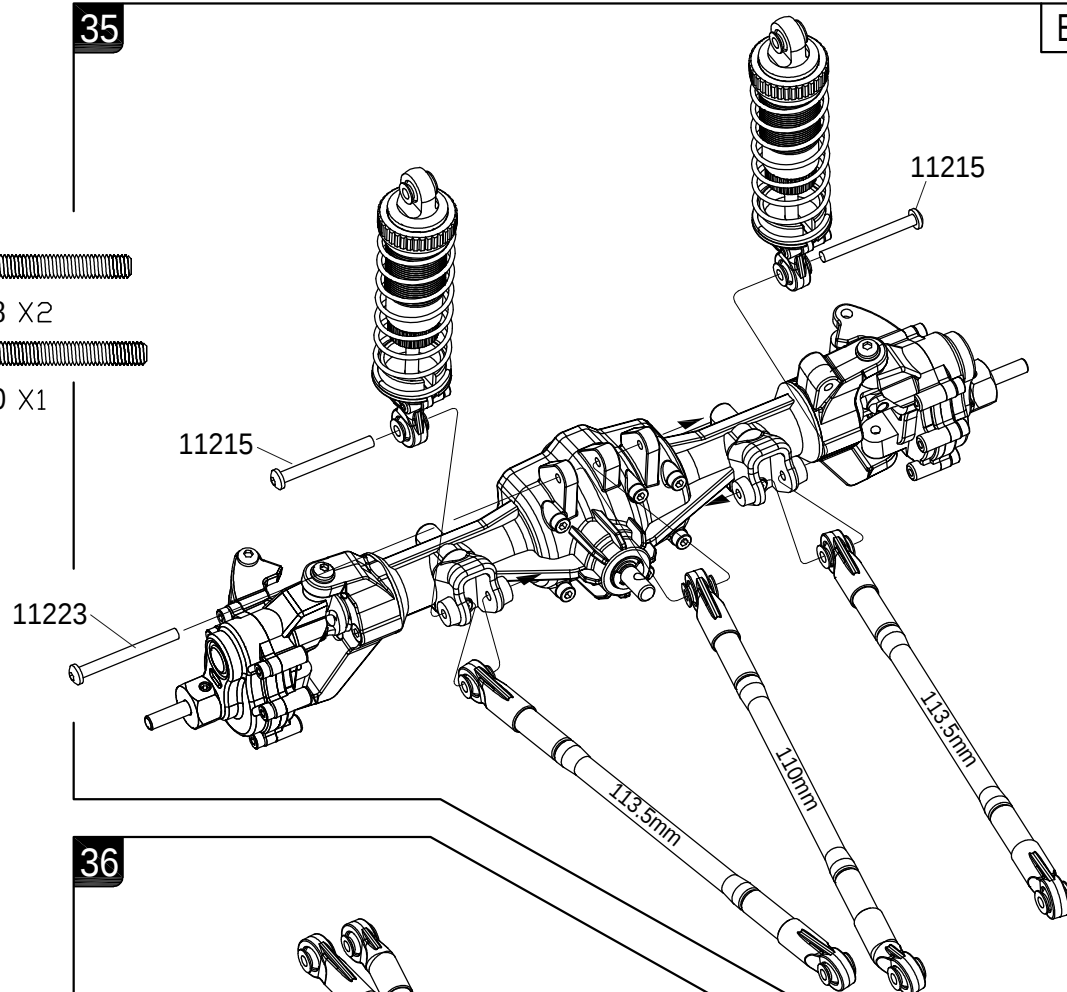
41753 X28



35

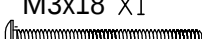
EMOXL2

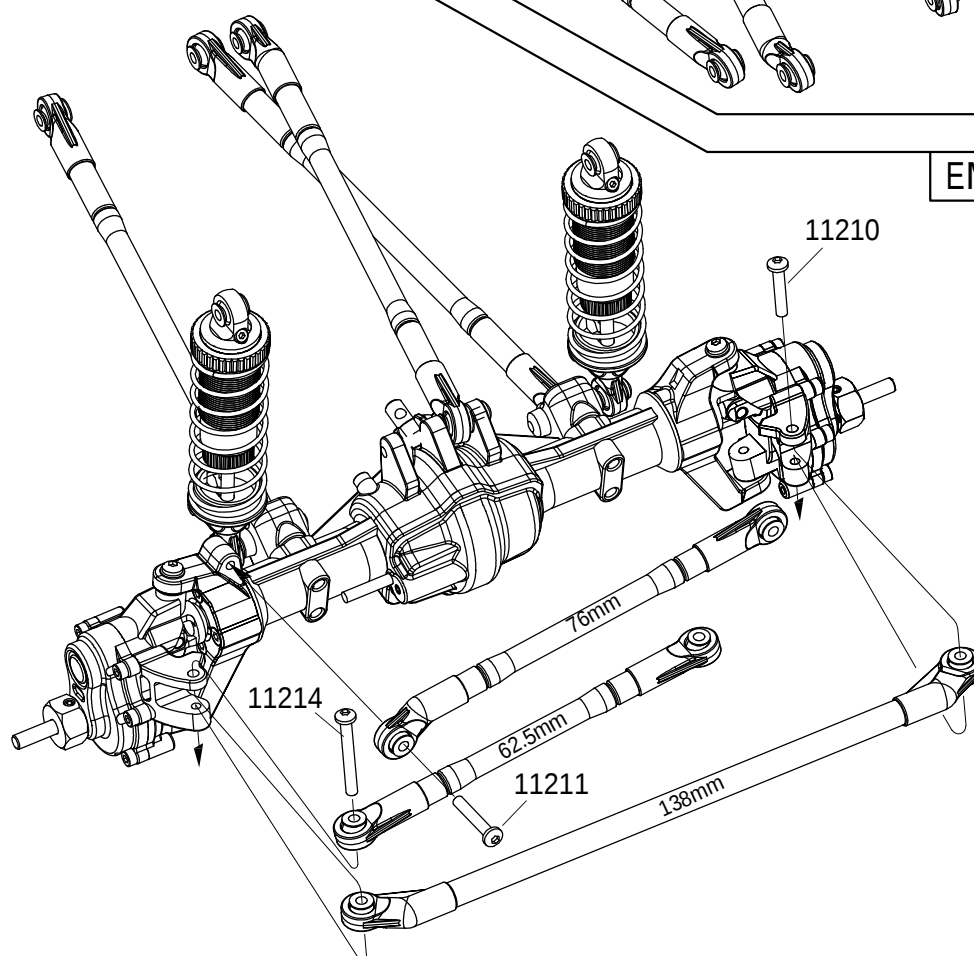
- 11215  M3x28 X2
 11223  M3x30 X1



36

EMOXL2

- 11210  M3x16 X1
 11211  M3x18 X1
 11214  M3x25 X1

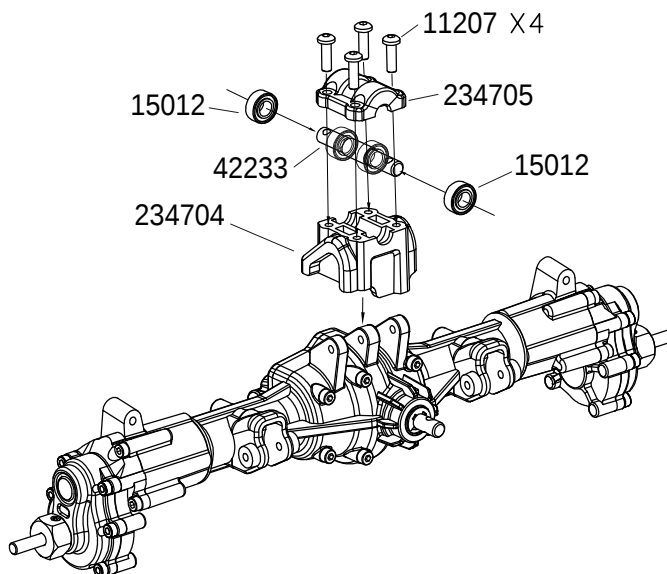


37

EMOXL2

11207 
M3x10 X4

15012 
Ø5xØ10x4 X2



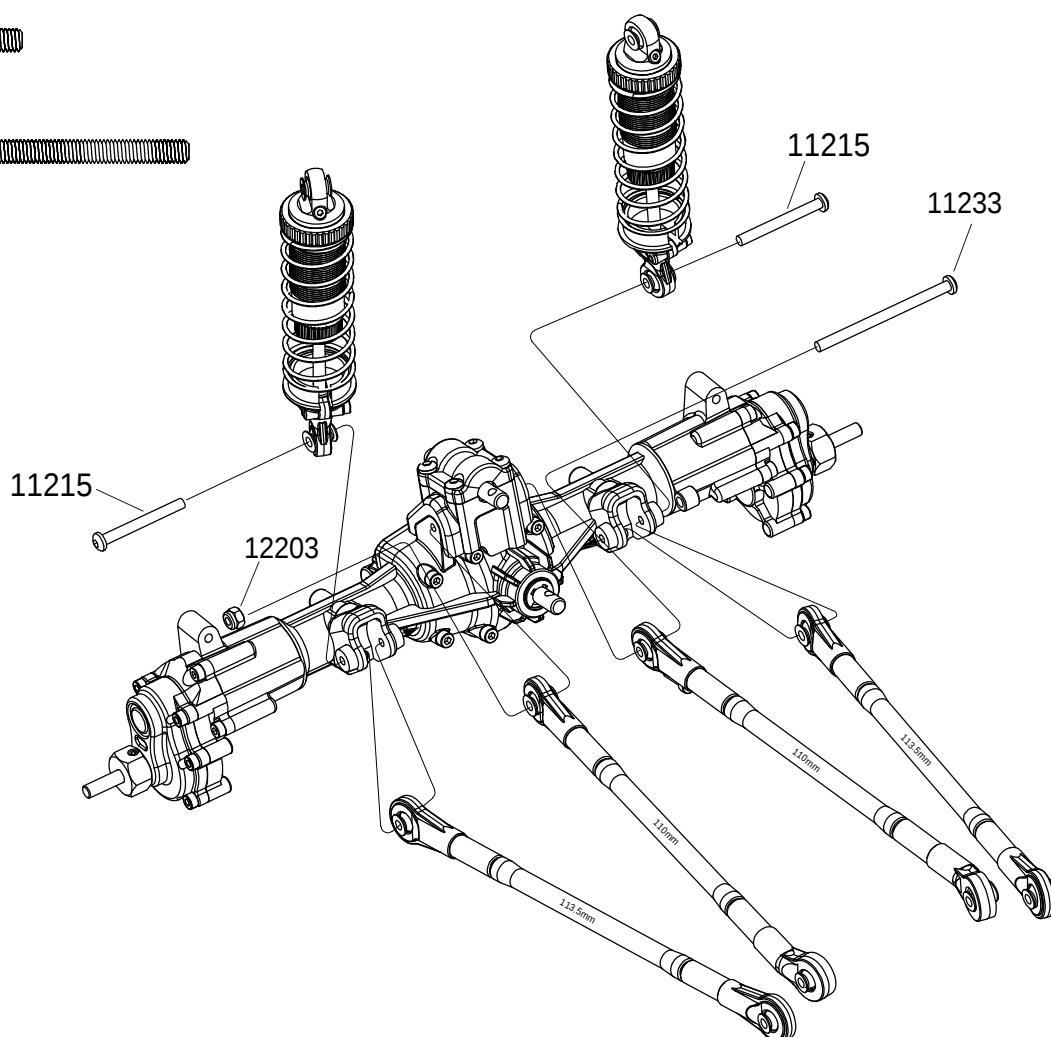
38

EMOXL2

11215 
M3x28 X2

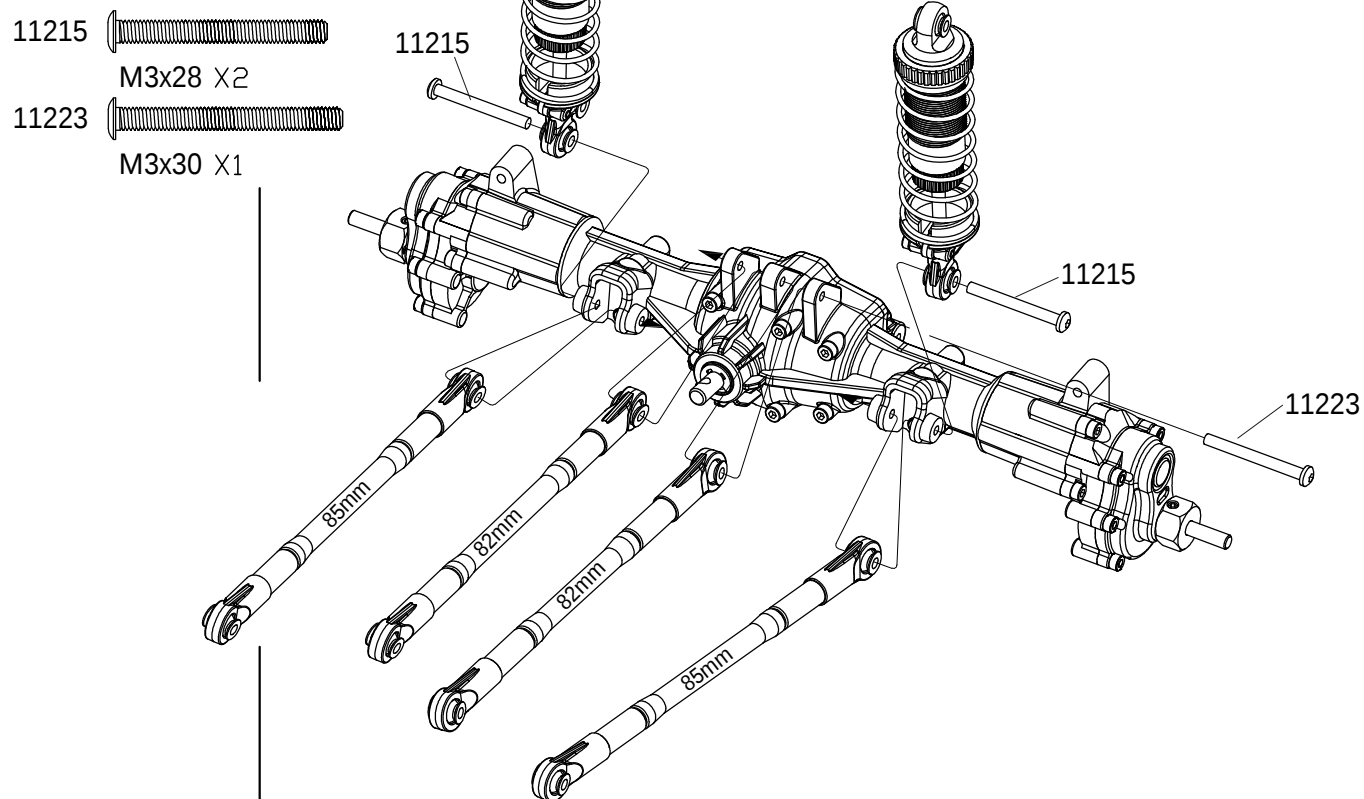
11233 
M3x50 X1

12203 
M3 X1



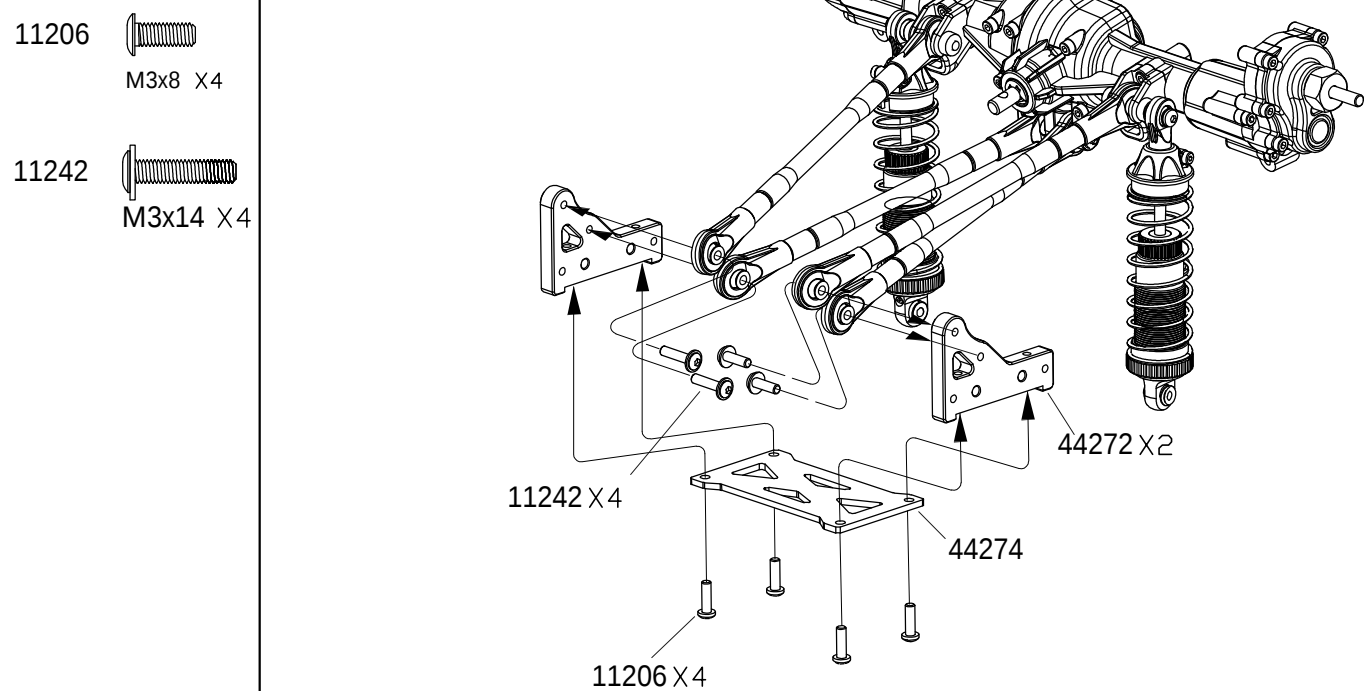
39

EMOXL2



40

EMOXL2



41

EMOXL2

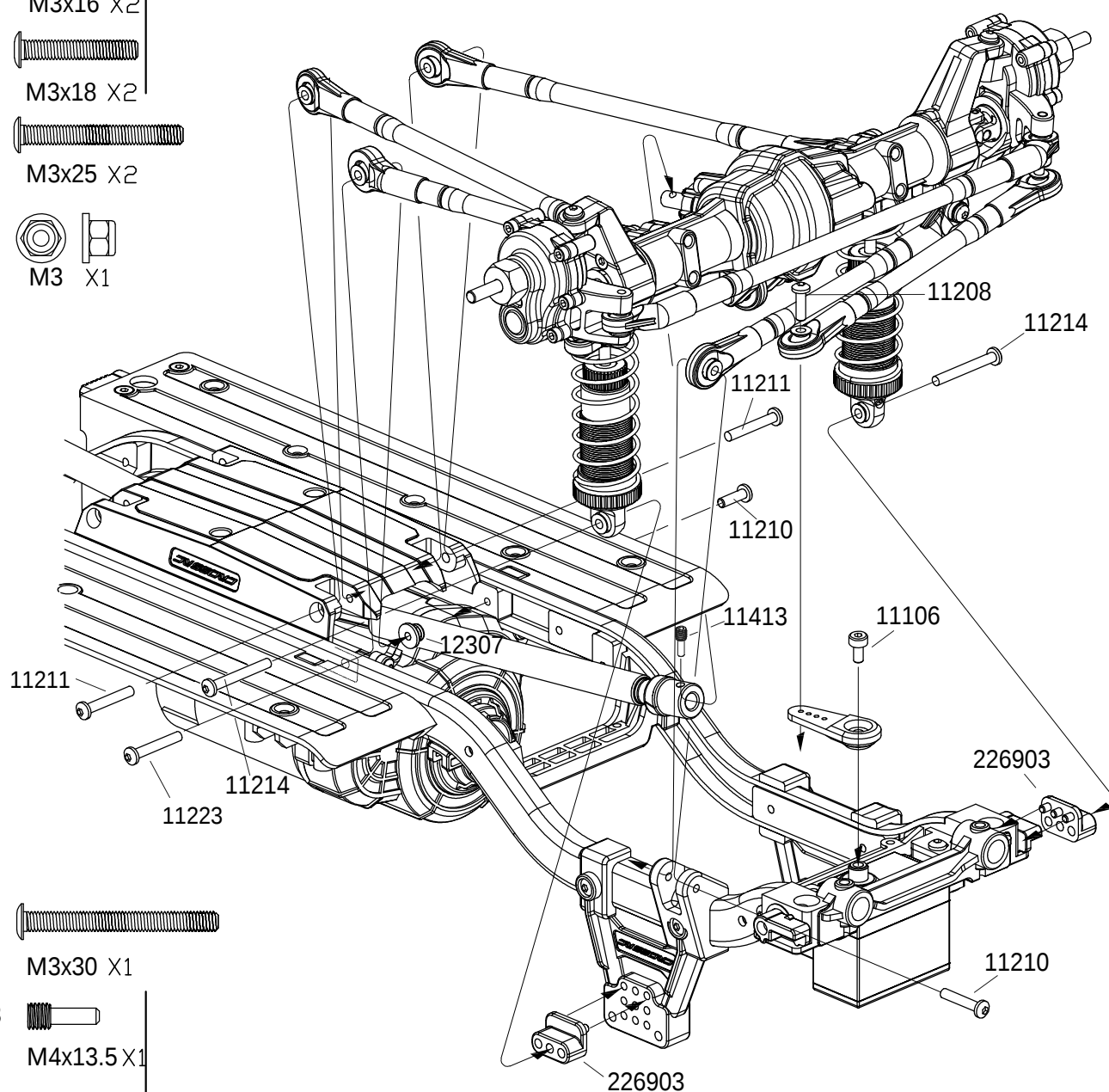
11106 
M3x8 X1

11210 
M3x16 X2

11211 
M3x18 X2

11214 
M3x25 X2

12307 
M3 X1



11223 
M3x30 X1

11413 
M4x13.5 X1

11208 
M3x12 X1

42

EMOXL2

11212



M3x20 X2

11213



M3x22 X2

11214



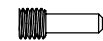
M3x25 X2

12307

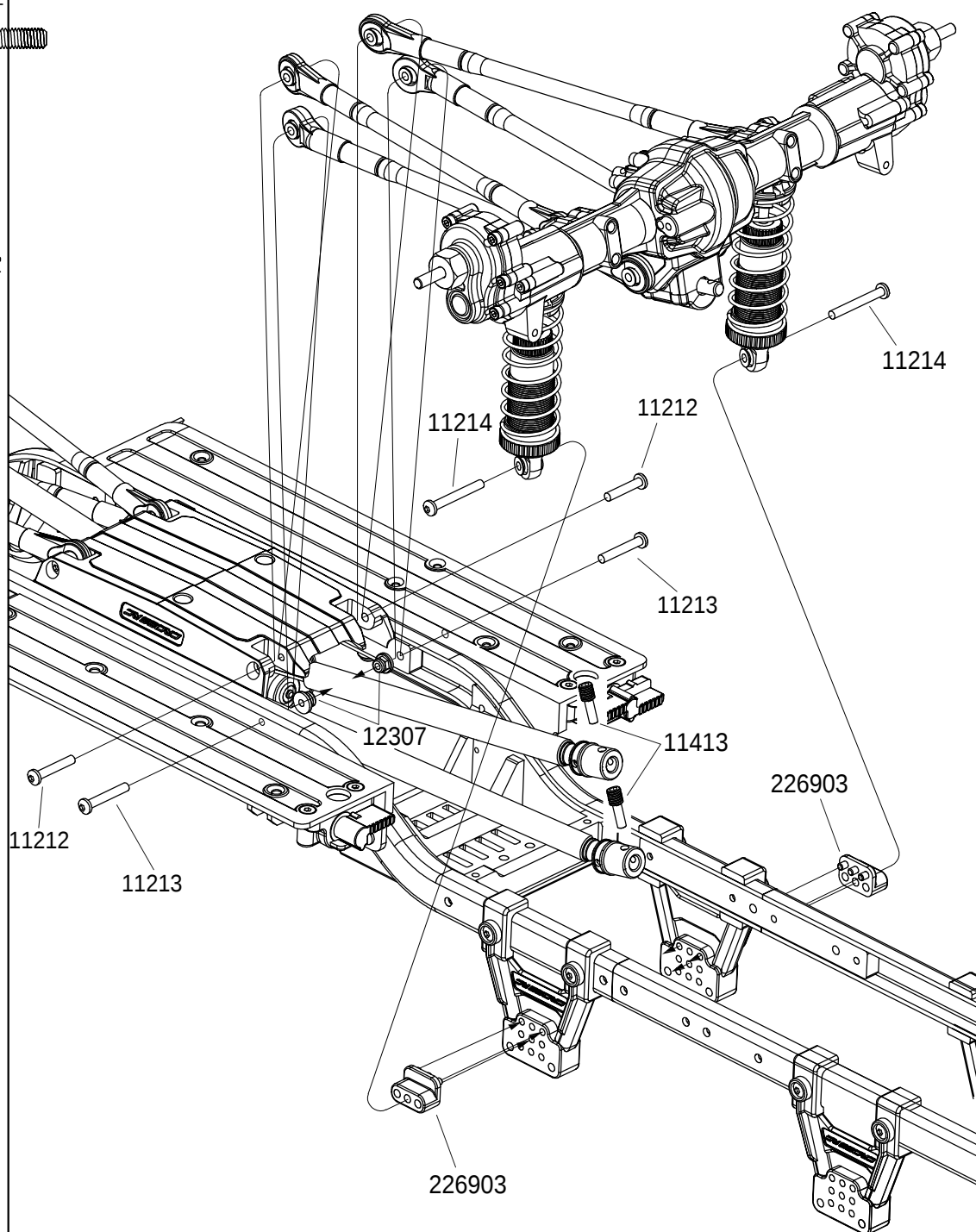


M3 X2

11413



M4x13.5 X2



43

EMOXL2

11214 

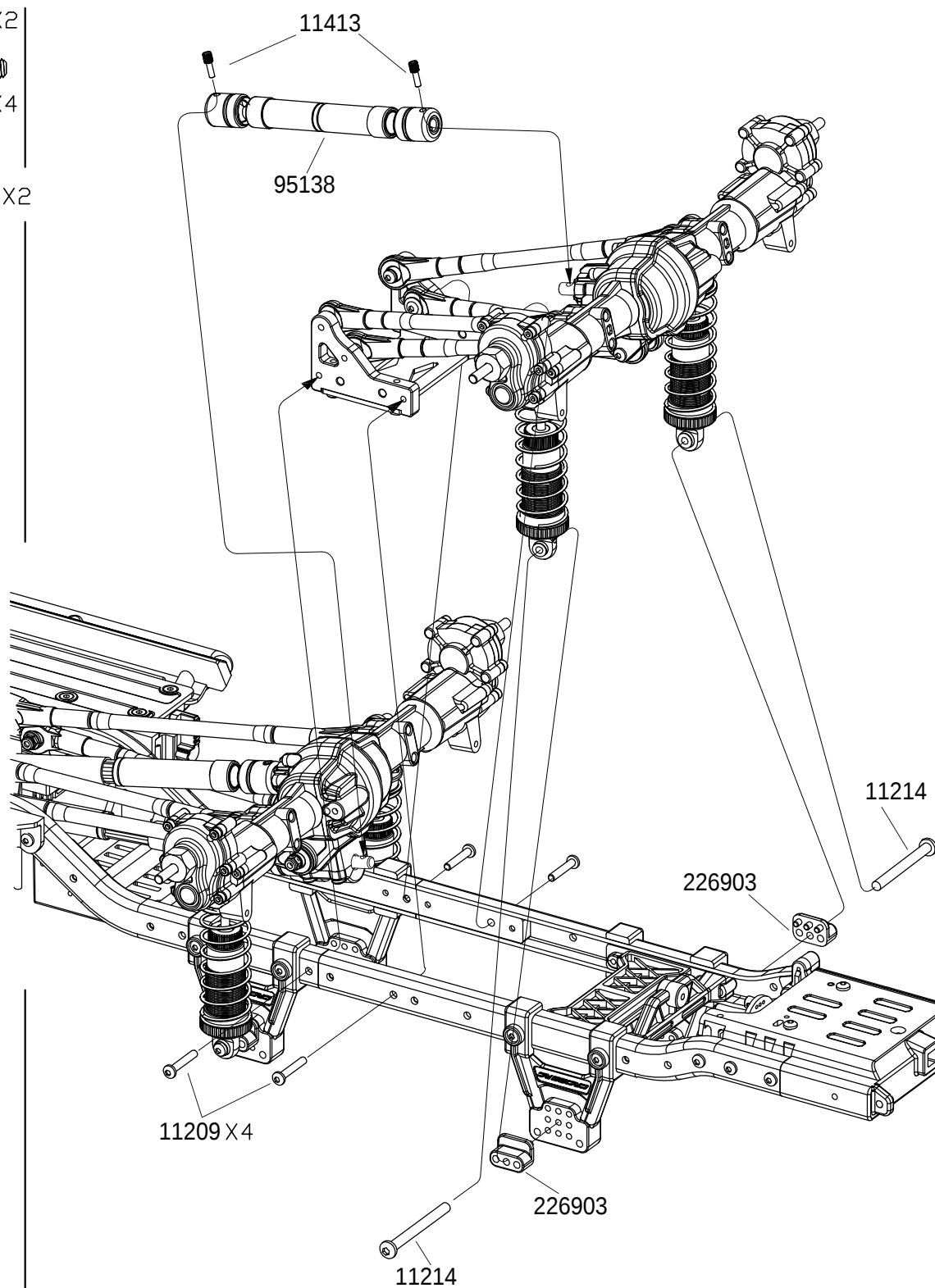
M3x25 X2

11209 

M3x14 X4

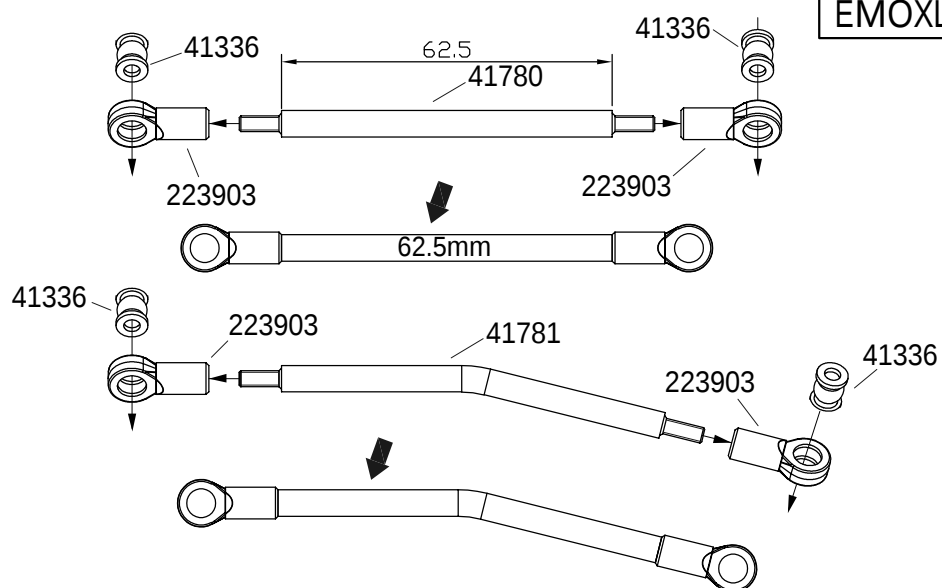
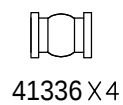
11413 

M4x13.5 X2



44

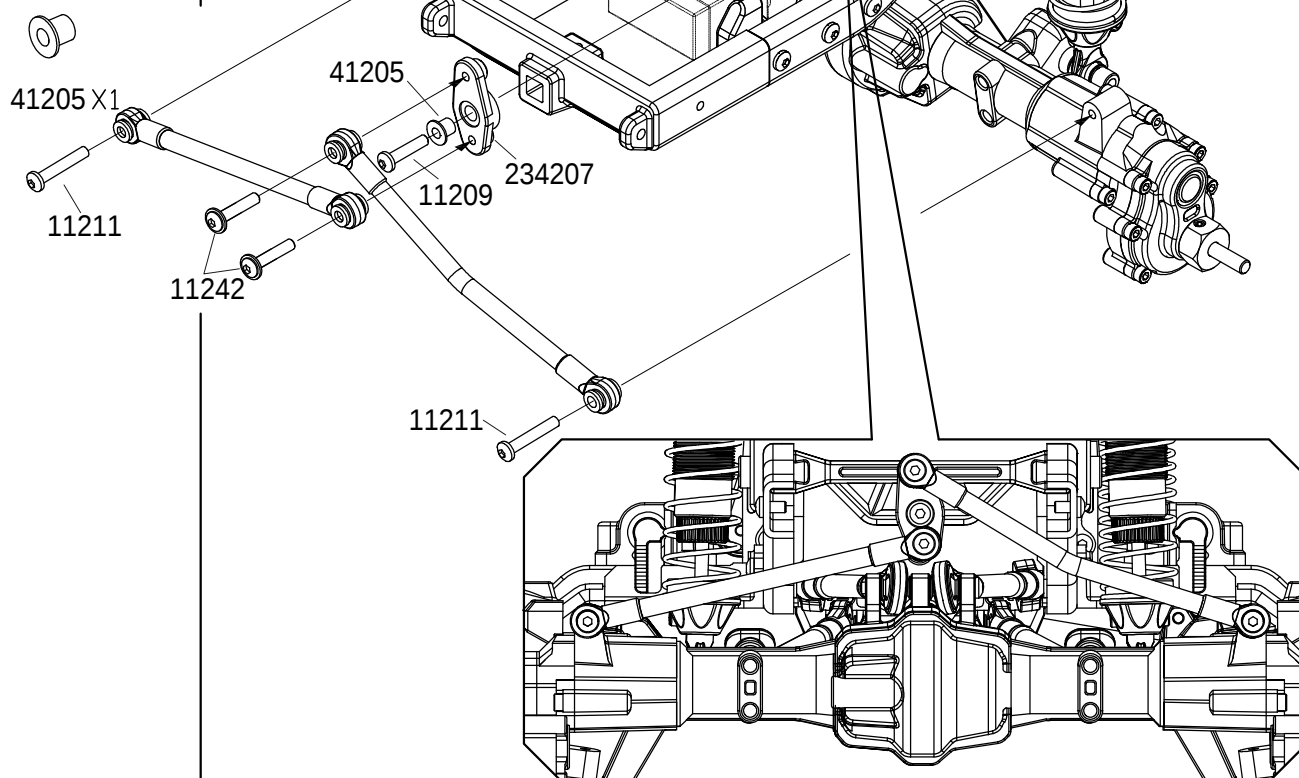
EMOXL2



45

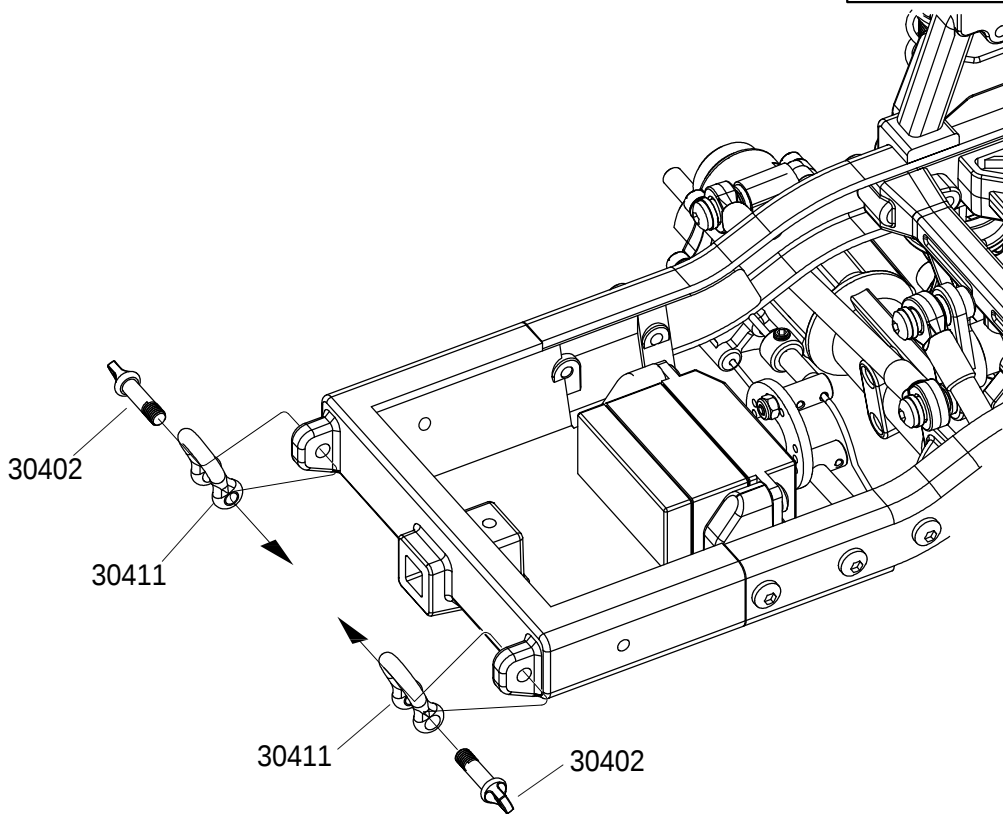
EMOXL2

- 11242 M3x14 X2
 11209 M3x14 X1
 11211 M3x18 X2



46

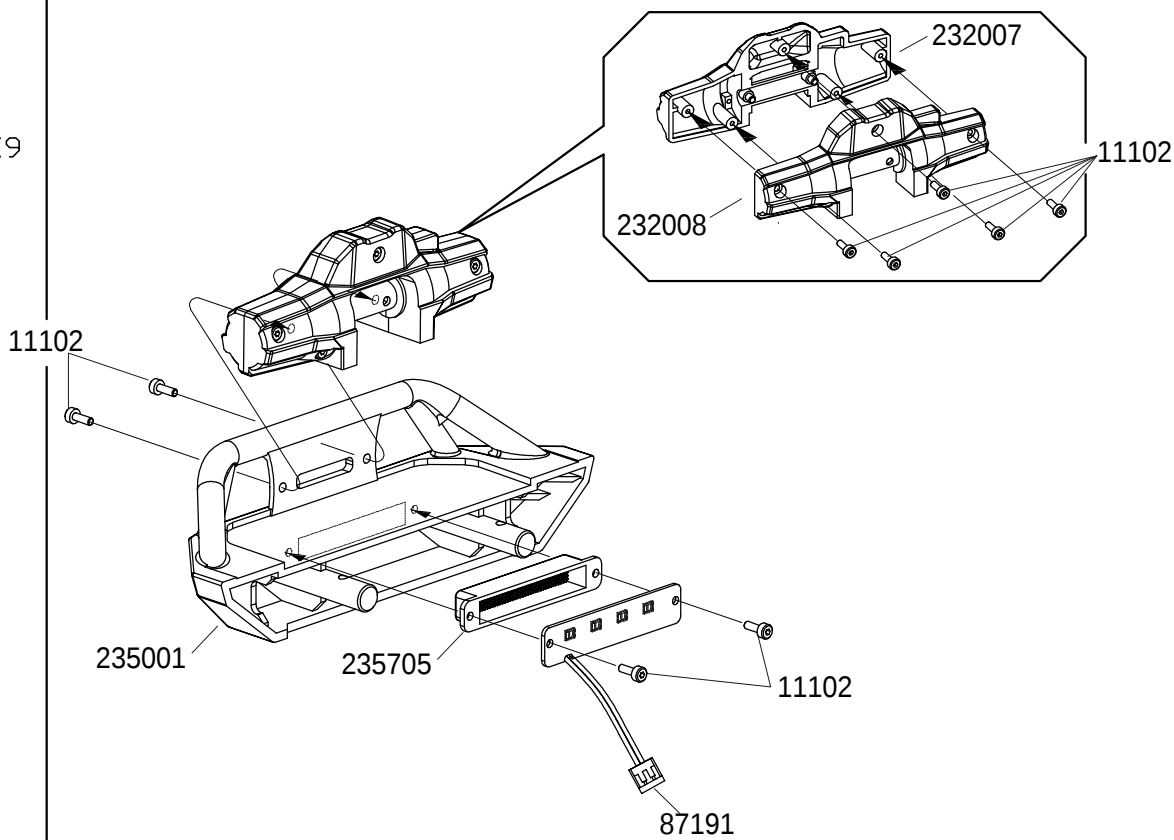
EMOXL2



47

EMOXL2

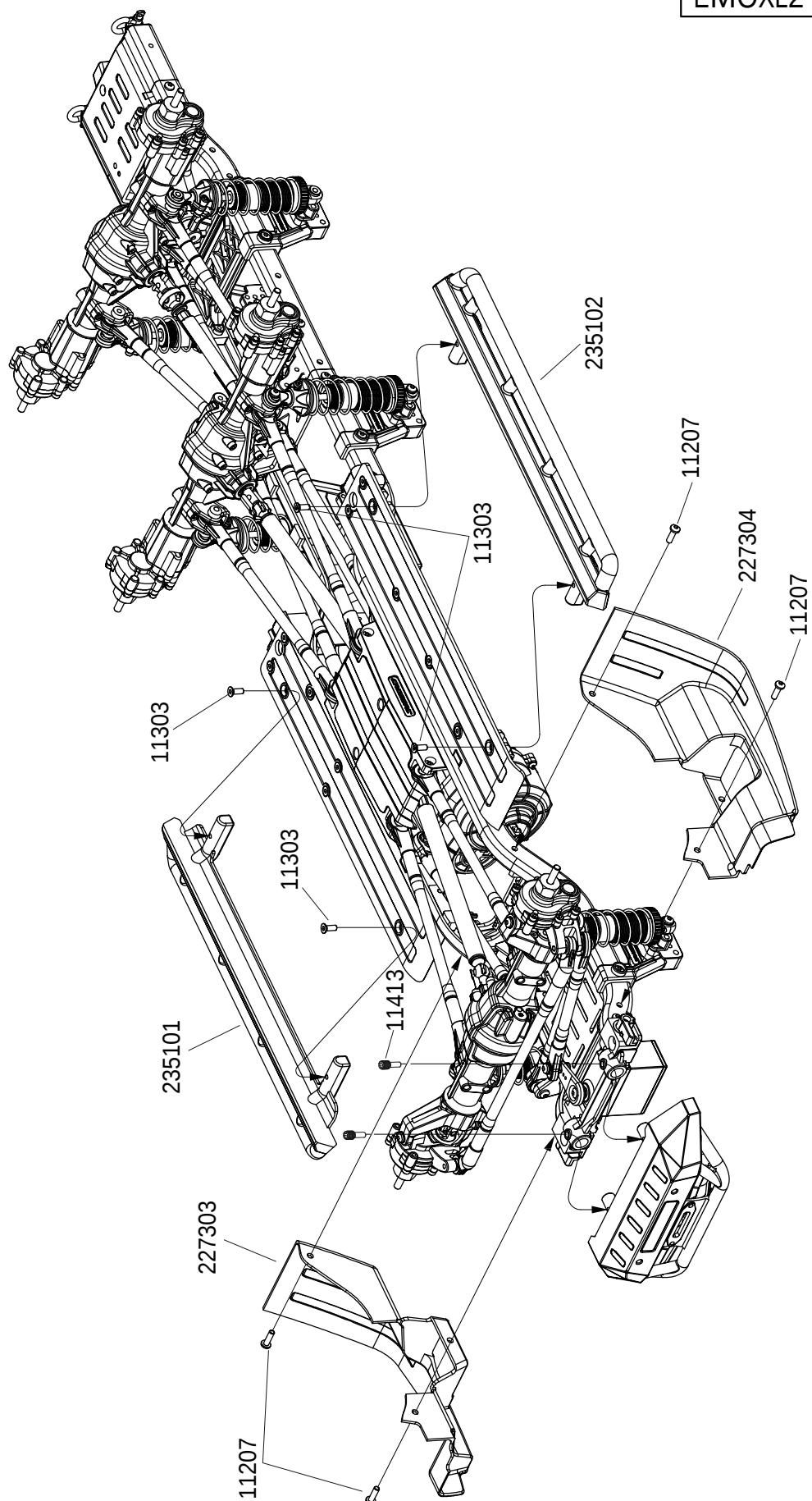
11102 
M2x6 X9



11303 
M3x8 X4

11413 
M4x13.5 X2

11207 
M3x10 X4



41

EMOXL2

11239 
M3x8 X10

11227 
M2.5x8 X2

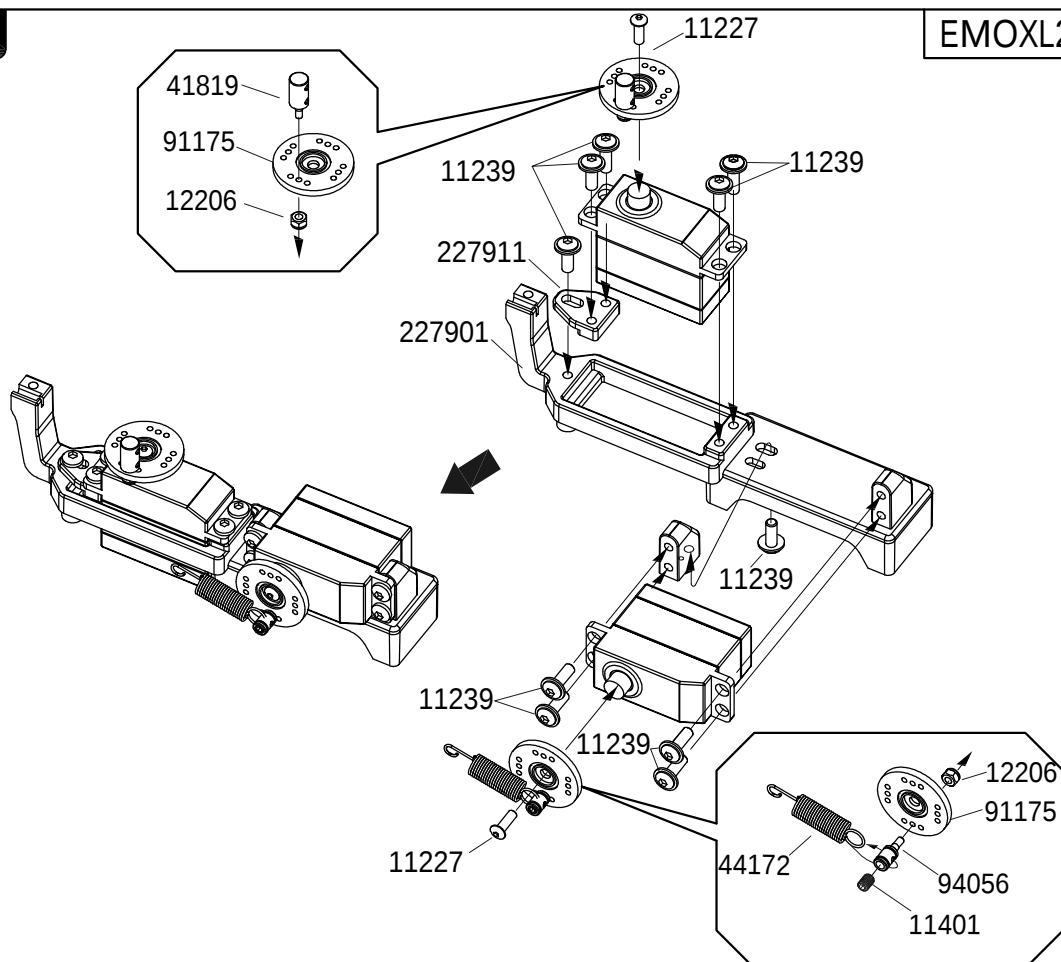
12206 
M2 X2

11401 
M3x4 X1


44172 X1


41819 X1


94056 X1

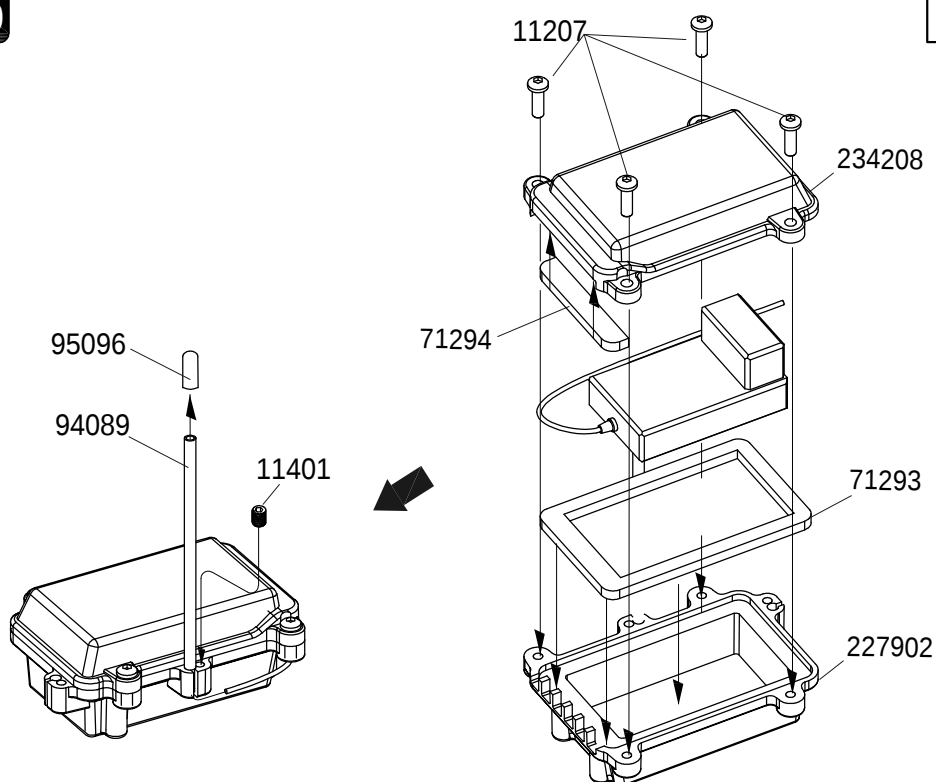


50

EMOXL2

11401 
M3x4 X1

11207 
M3x10 X4

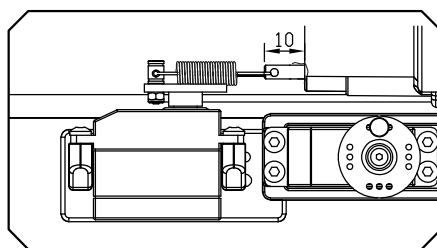


51

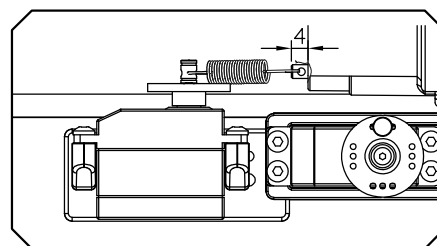
EMOXL2

11303 
M3x8 X3

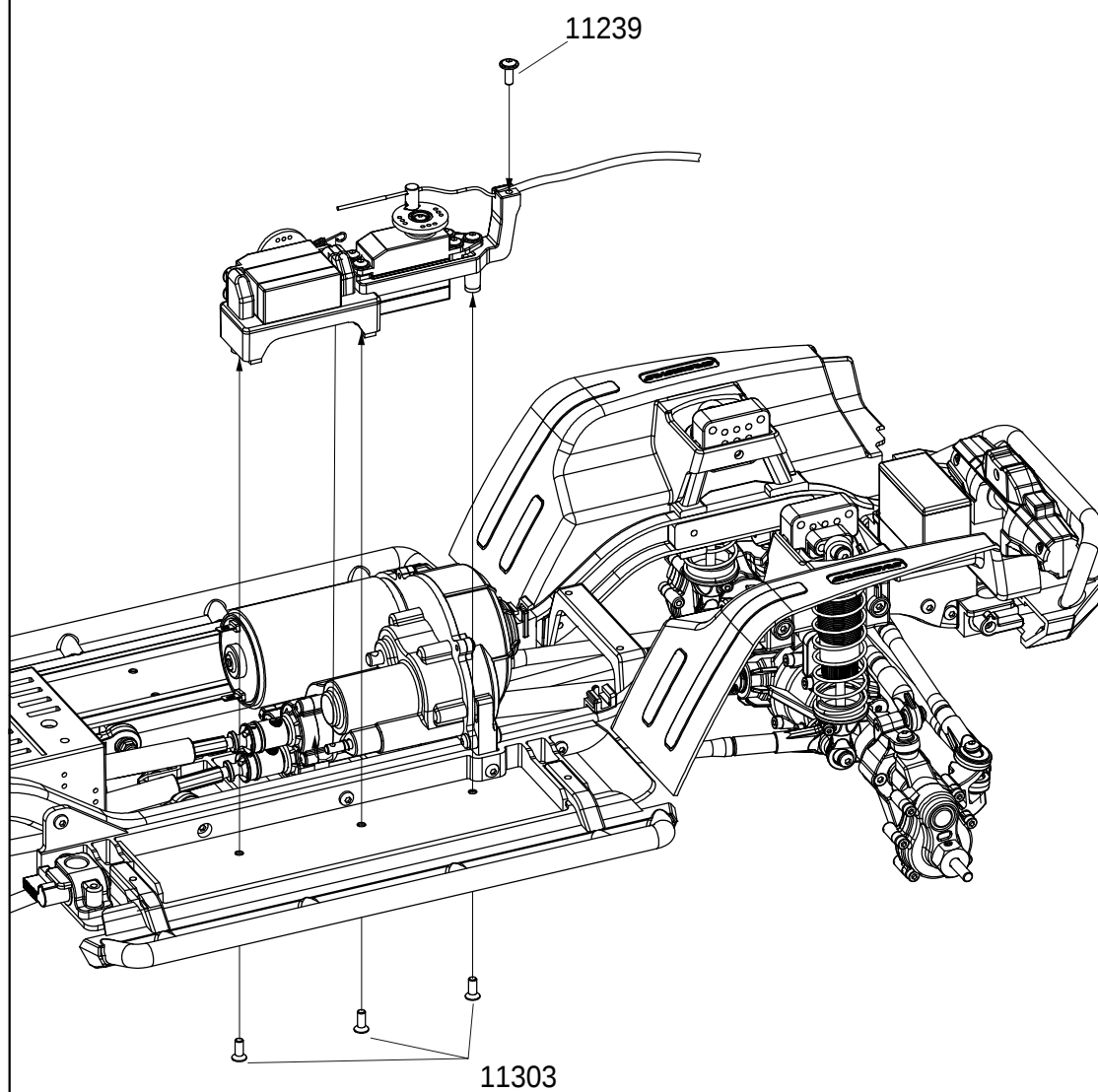
11239 
M3x8 X1



Slow



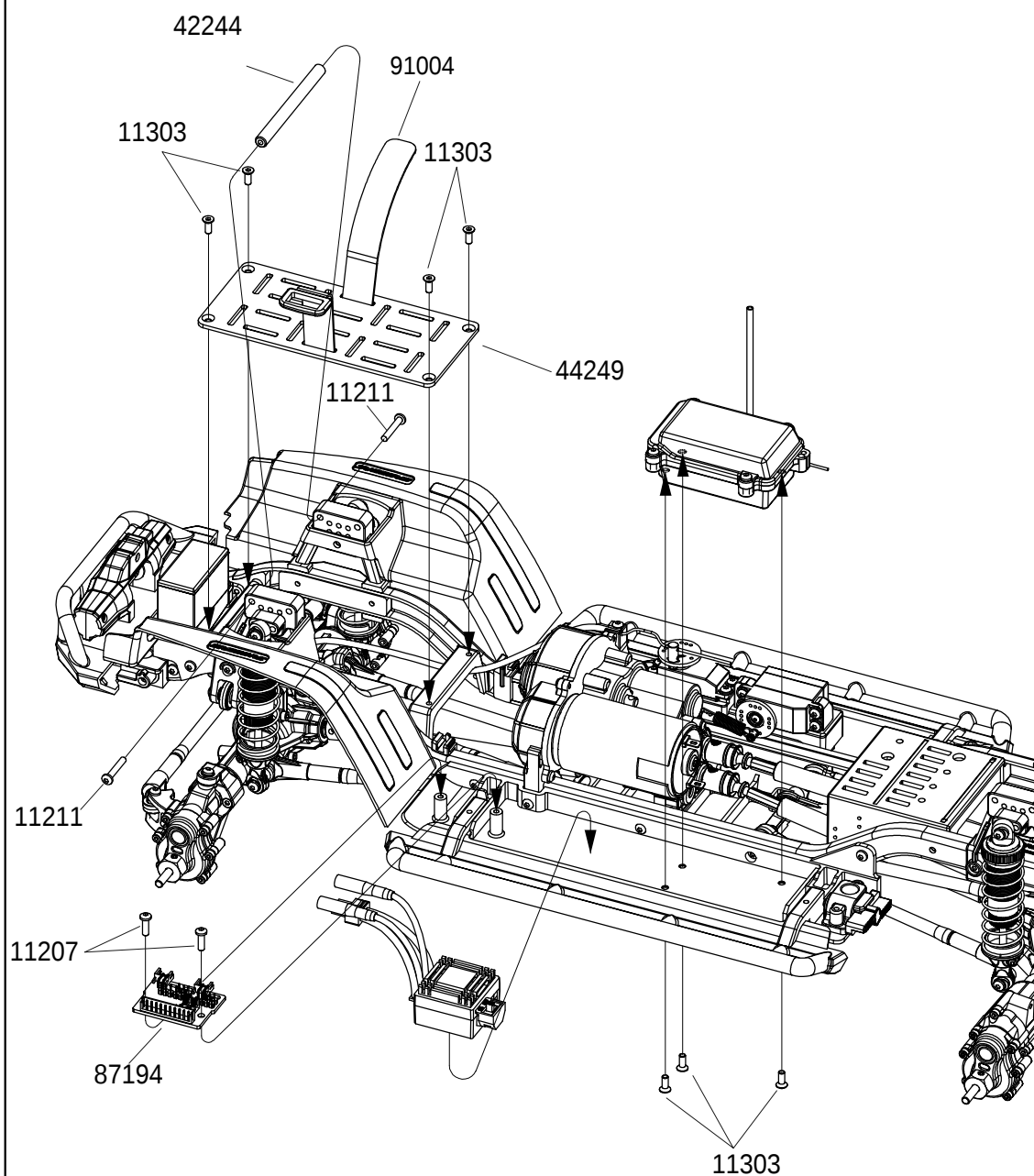
Fast



11303 
M3x8 X7

11207 
M3x10 X2

11211 
M3x18 X2



54

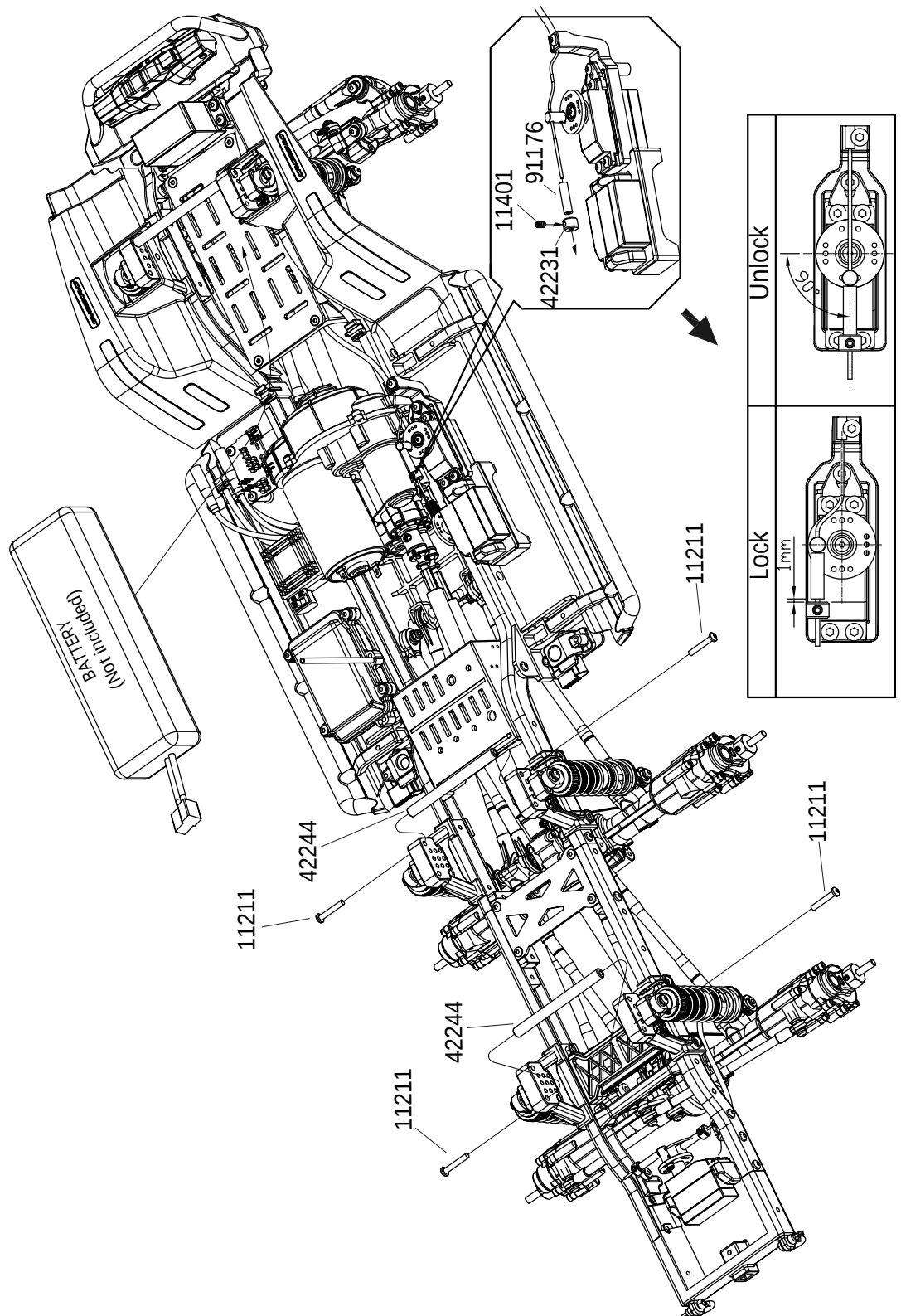
EMOXL2

11211 
M3x18 X 4

11401 
M3x4 X 2

42231 X1 

91176 X1 

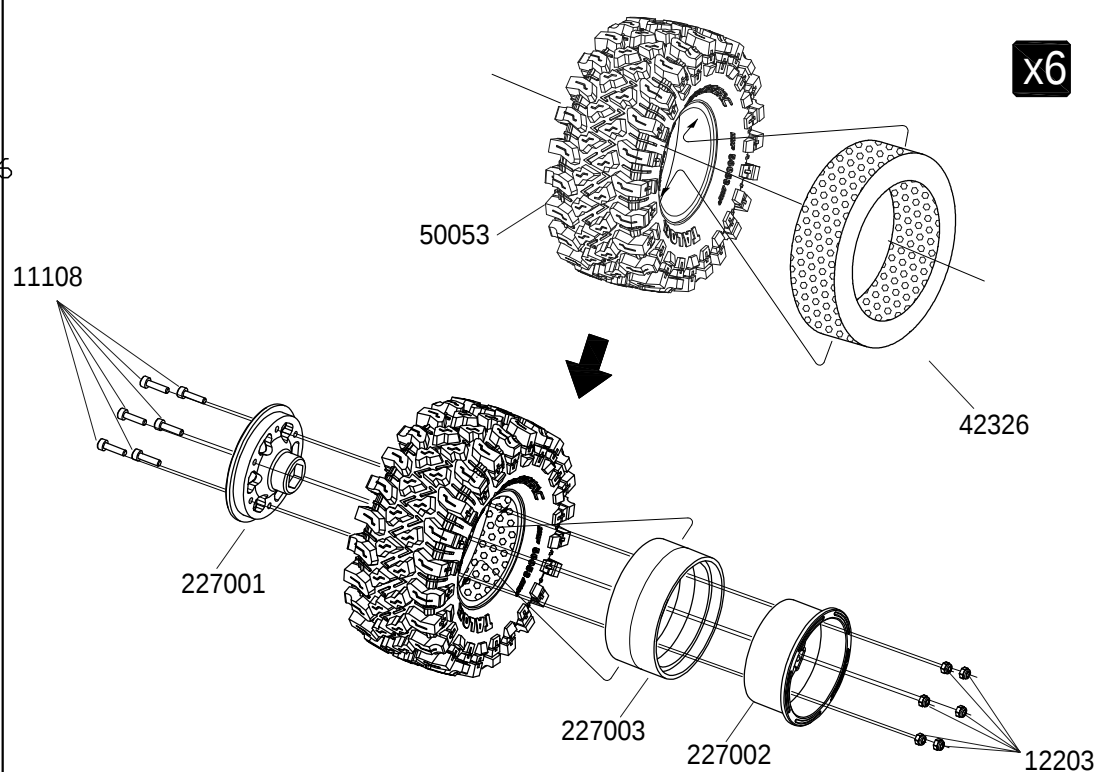


55

EMOXL2

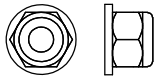
11108 
M3x12 X36

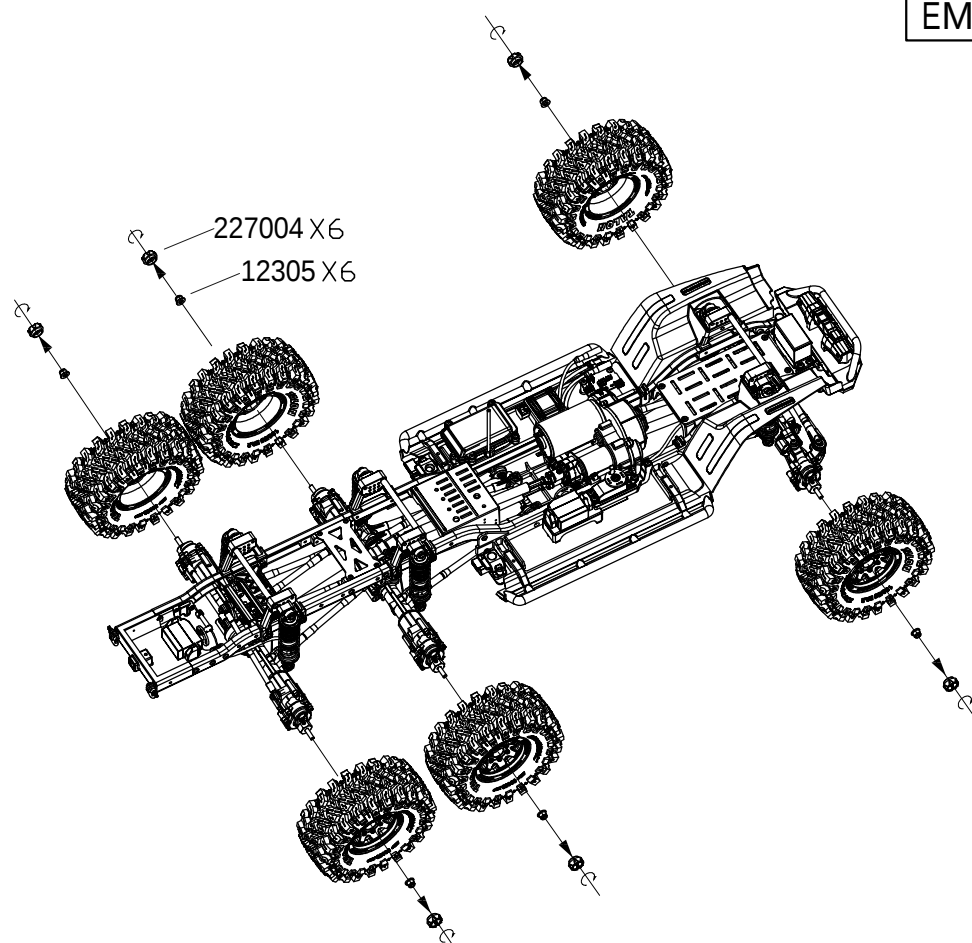
12203 
M3 X36



56

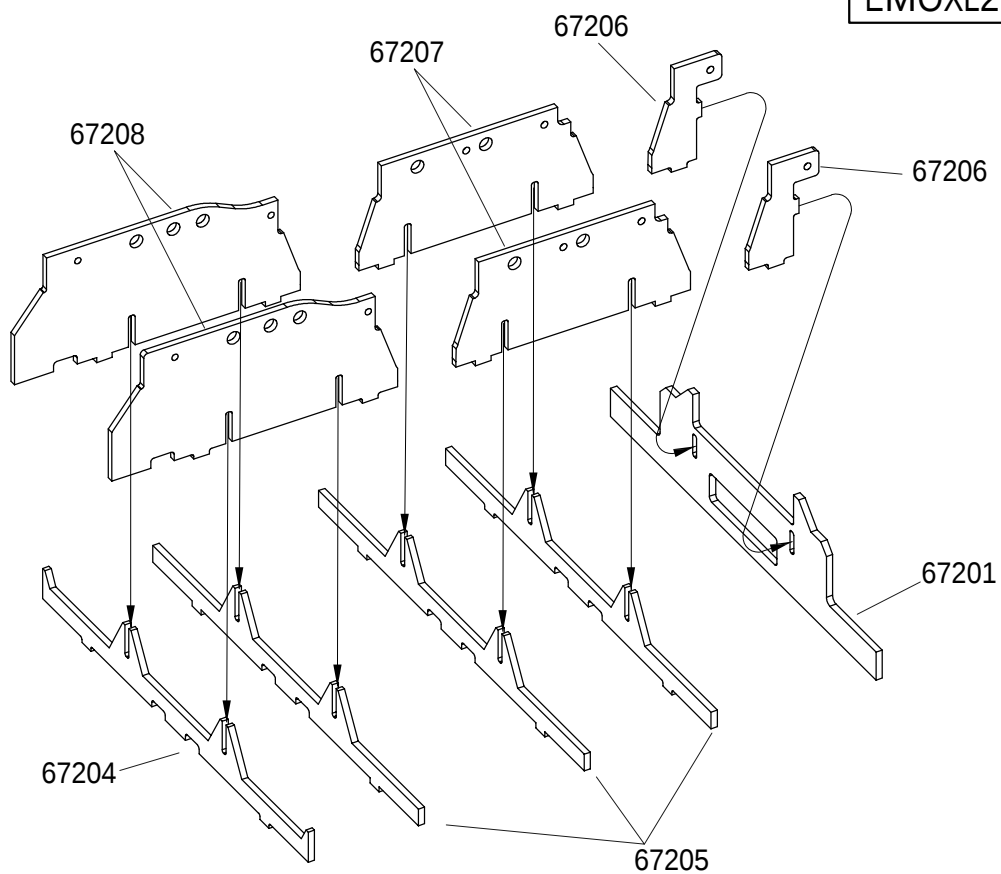
EMOXL2

12305 
M5 X6



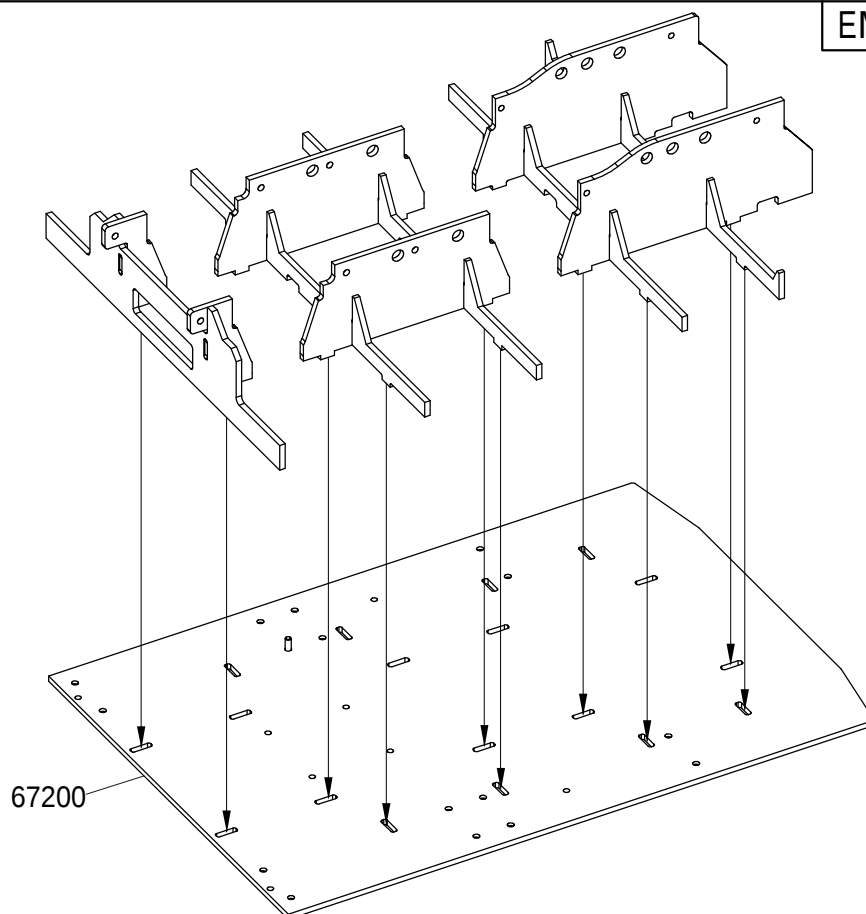
57

EMOXL2



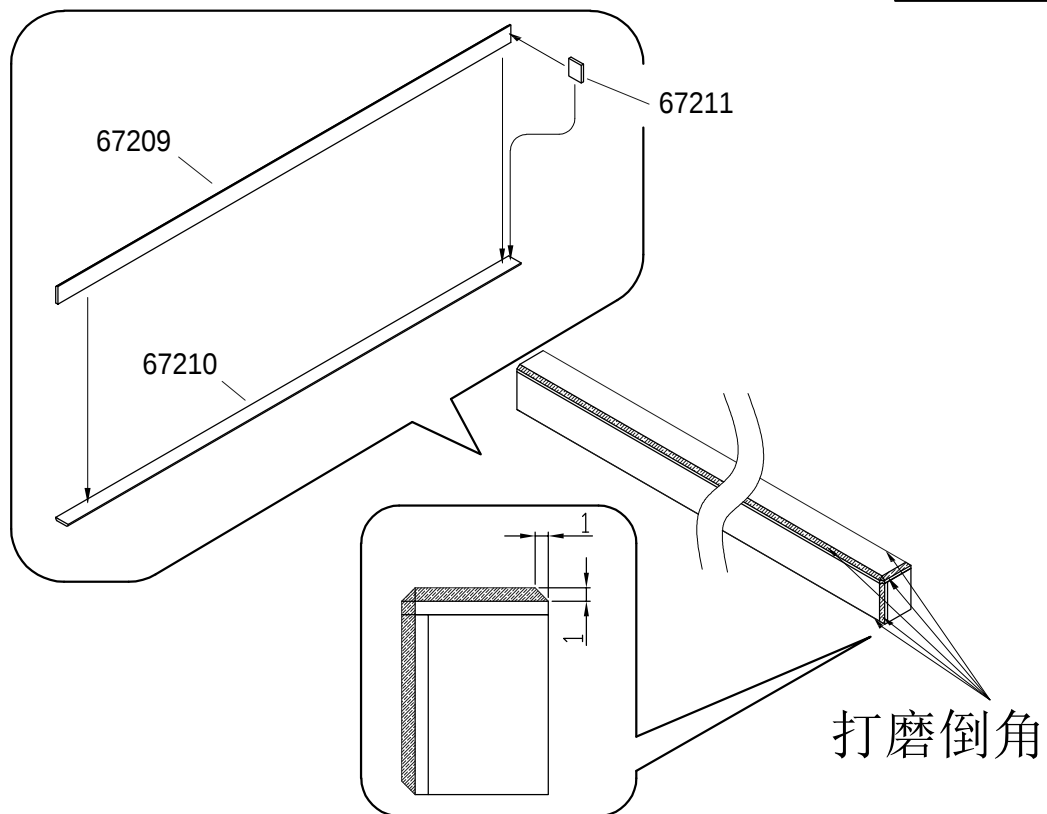
58

EMOXL2



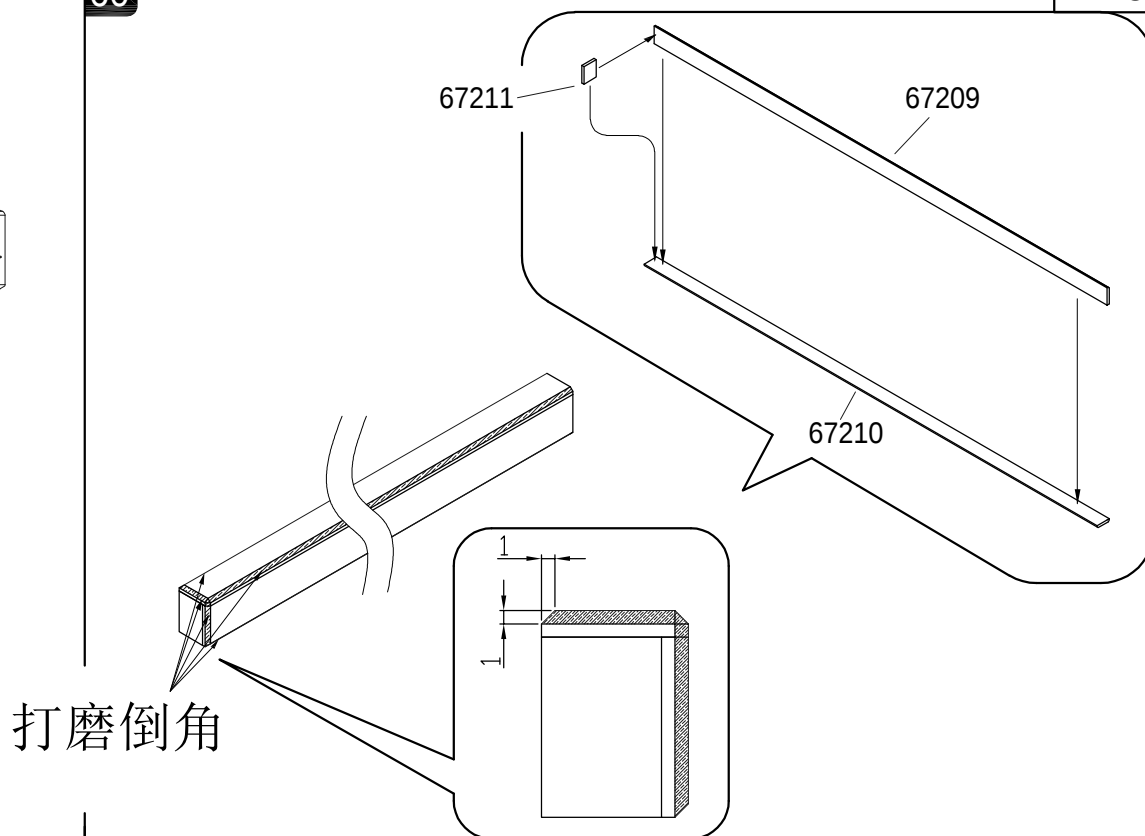
59

EMOXL2



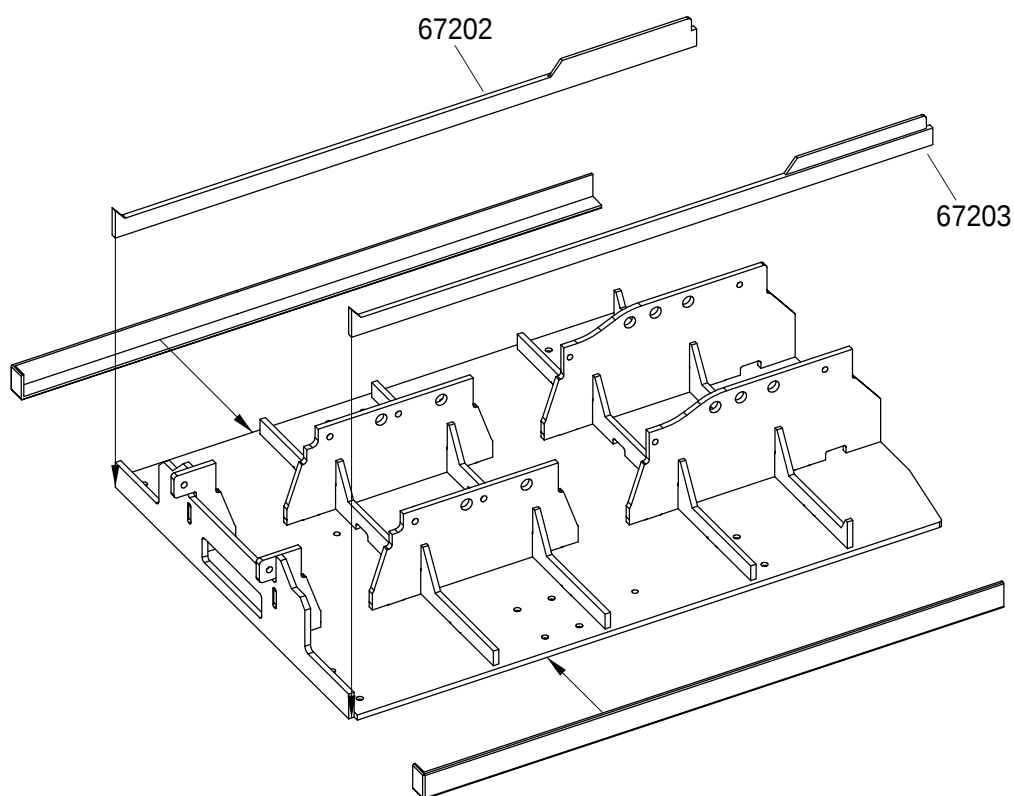
60

EMOXL2



61

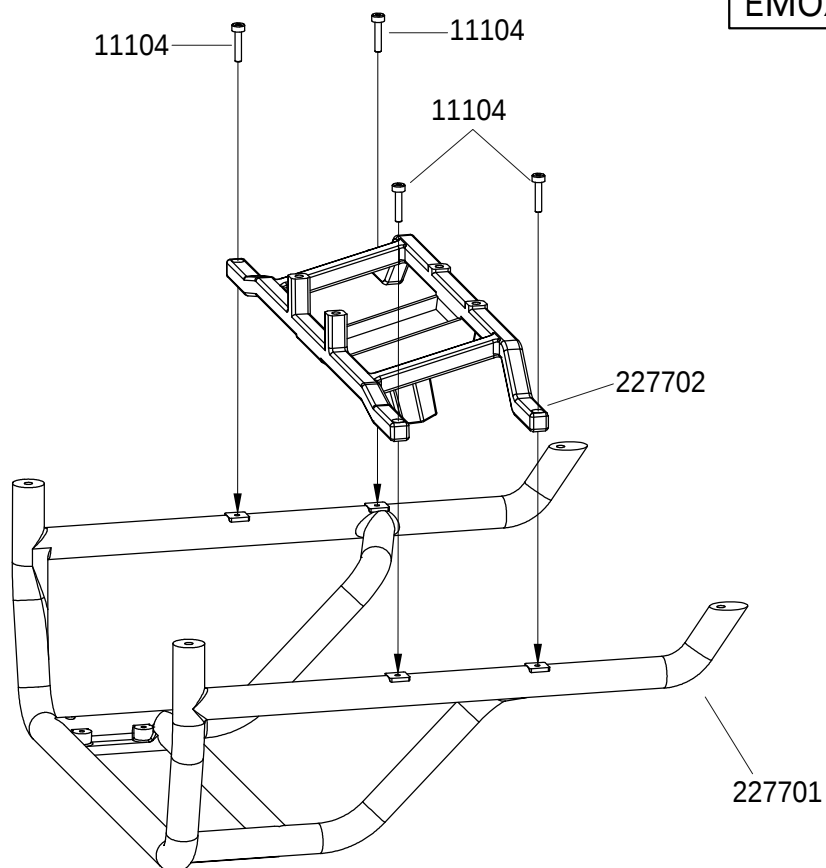
EMOXL2



62

EMOXL2

11104 
M2x10 X4

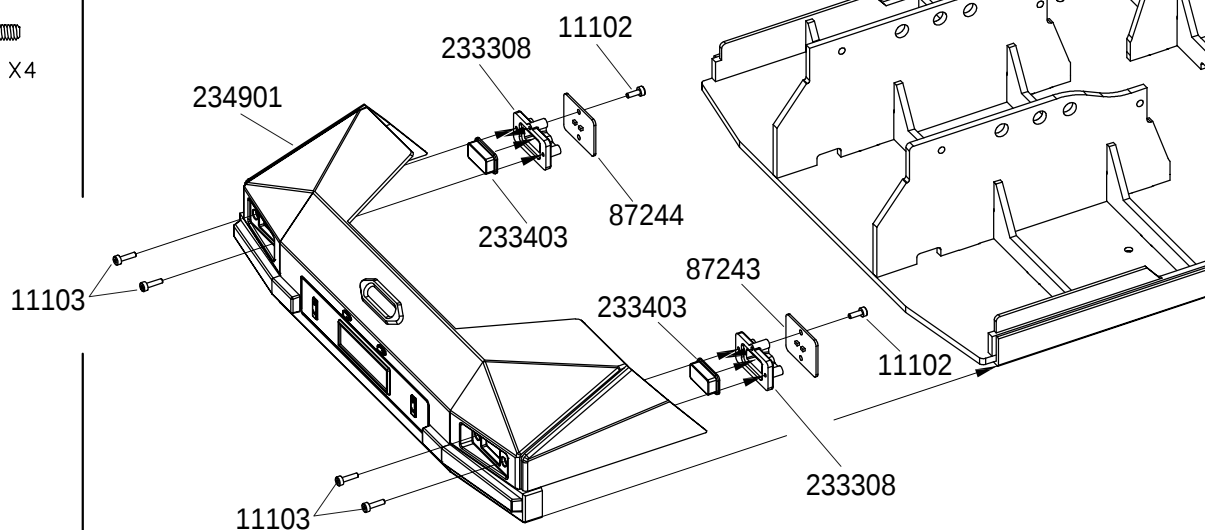


63

EMOXL2

11102 
M2x6 X2

11103 
M2x8 X4

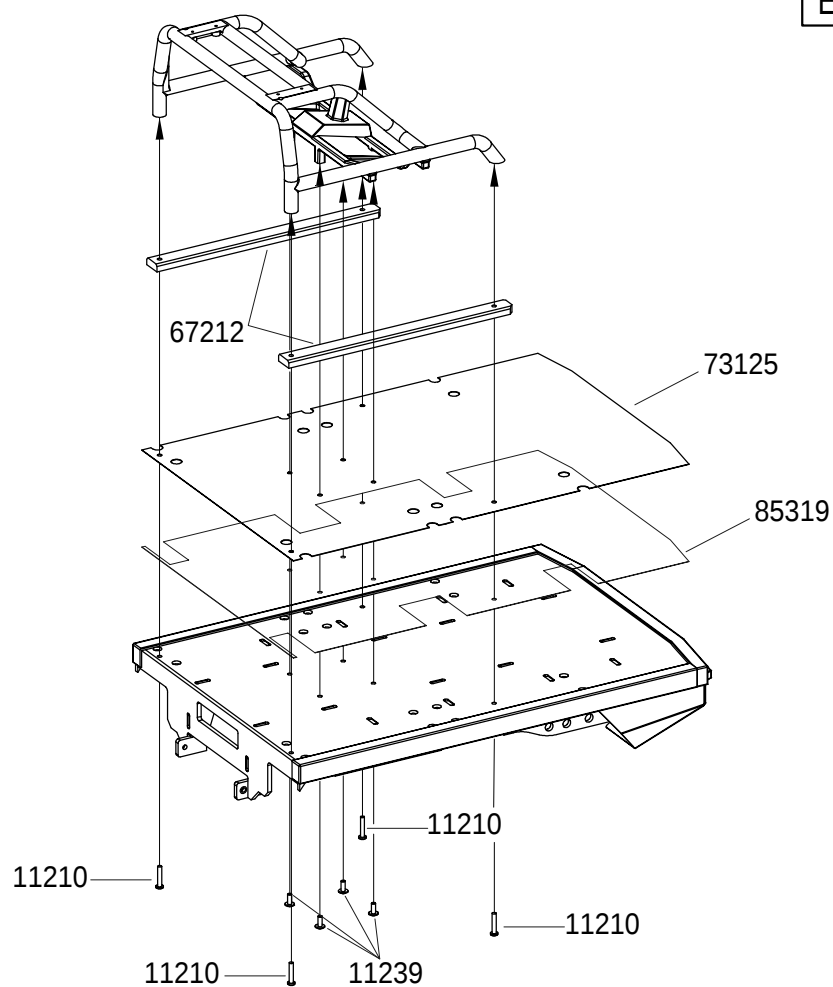


64

EMOXL2

11239 
M3x8 X4

11210 
M3x16 X4



65

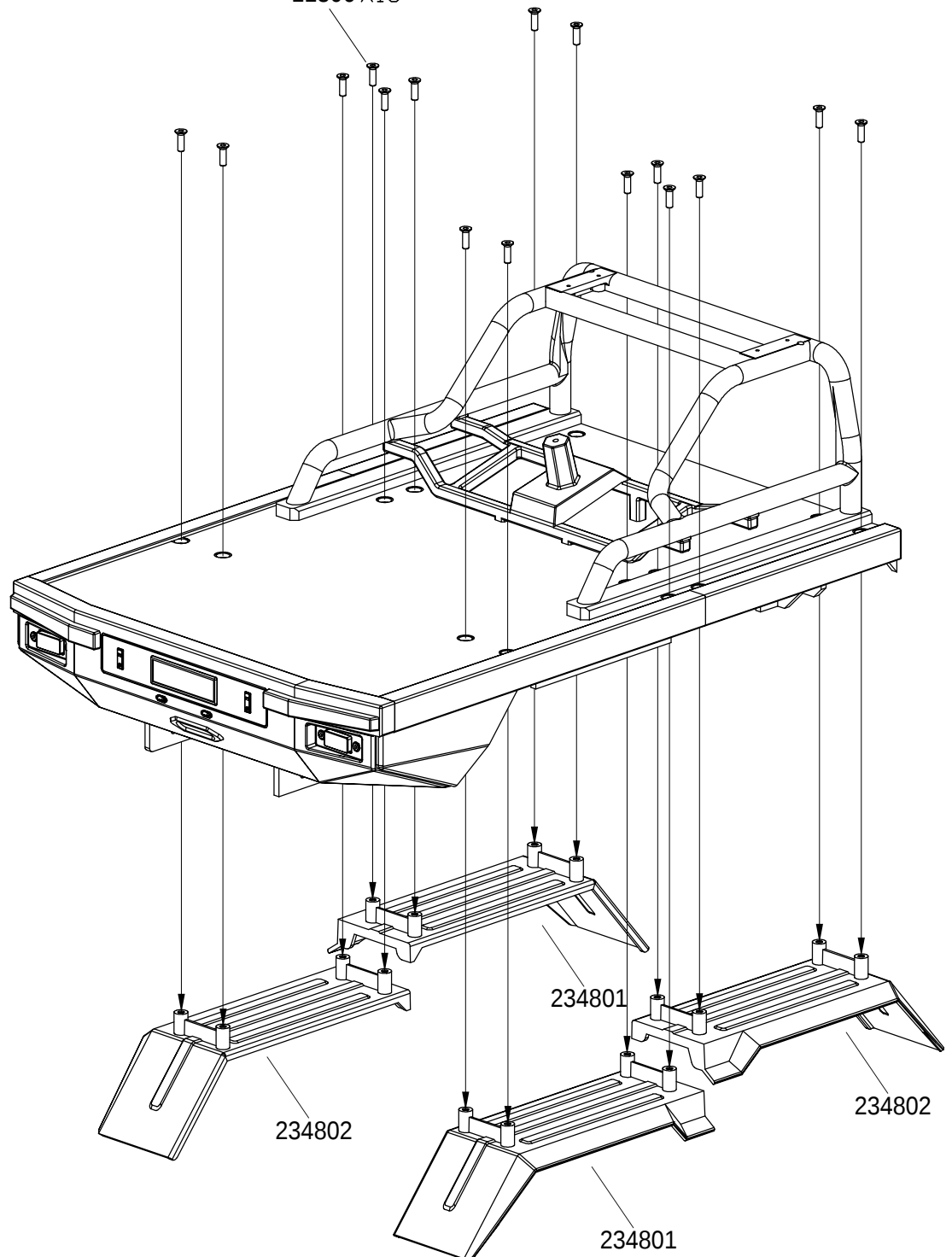
EMOXL2

11306



M3x10 X16

11306 X16

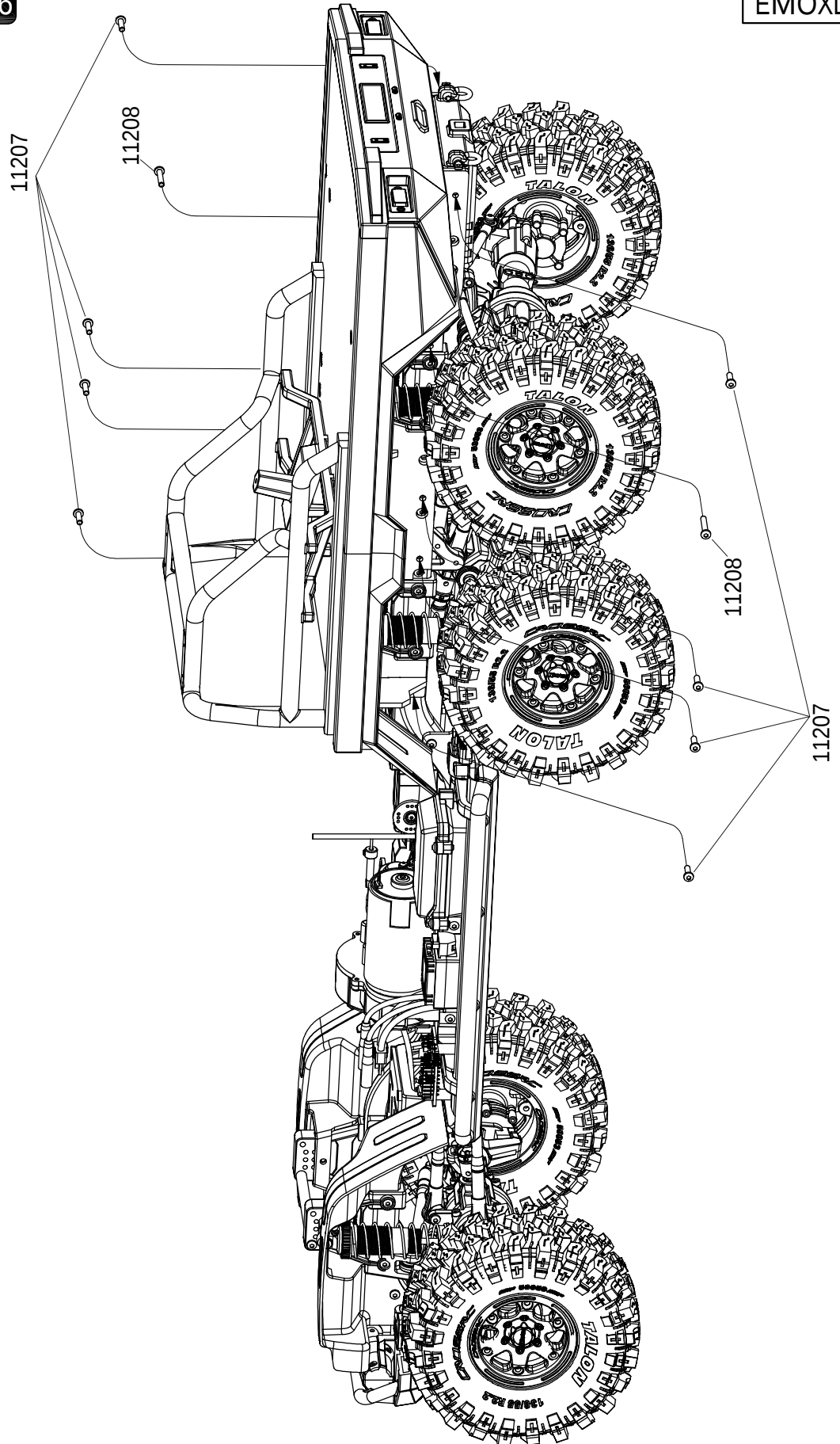


66

EMOXL2

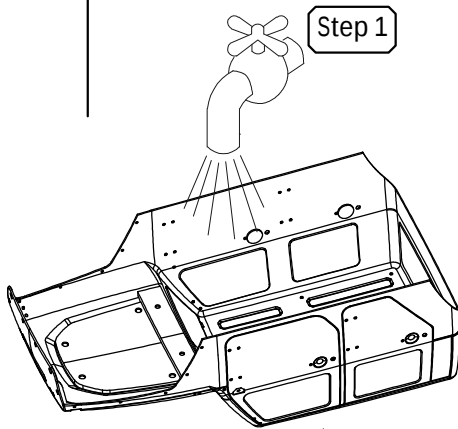
11207 
M3x10 X8

11208 
M3x12 X2



67

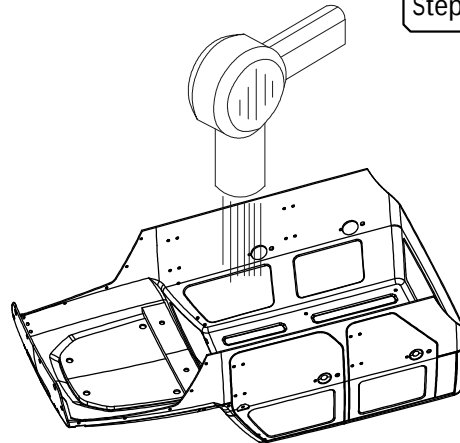
EMOXL2



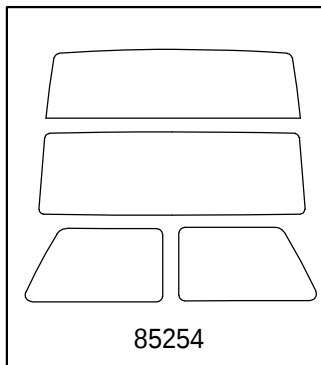
Step 1

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

239101

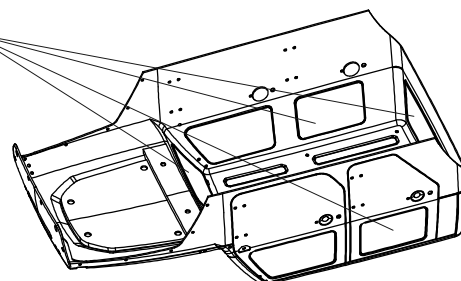


Step 2



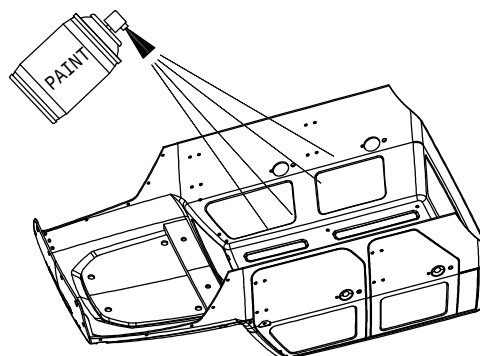
85254

85254



Step 3

Mask the windows on the inside with masking tape.



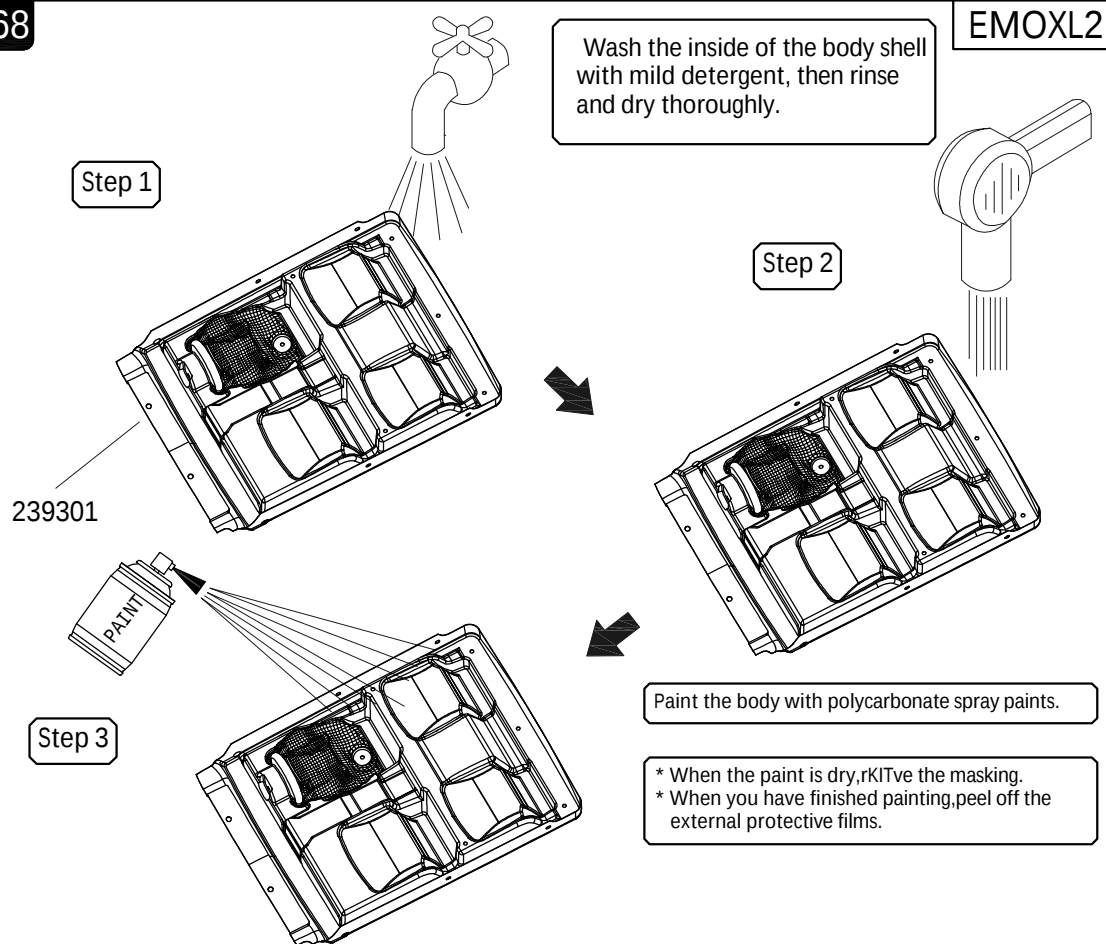
Step 4

Paint the body with polycarbonate spray paints.

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

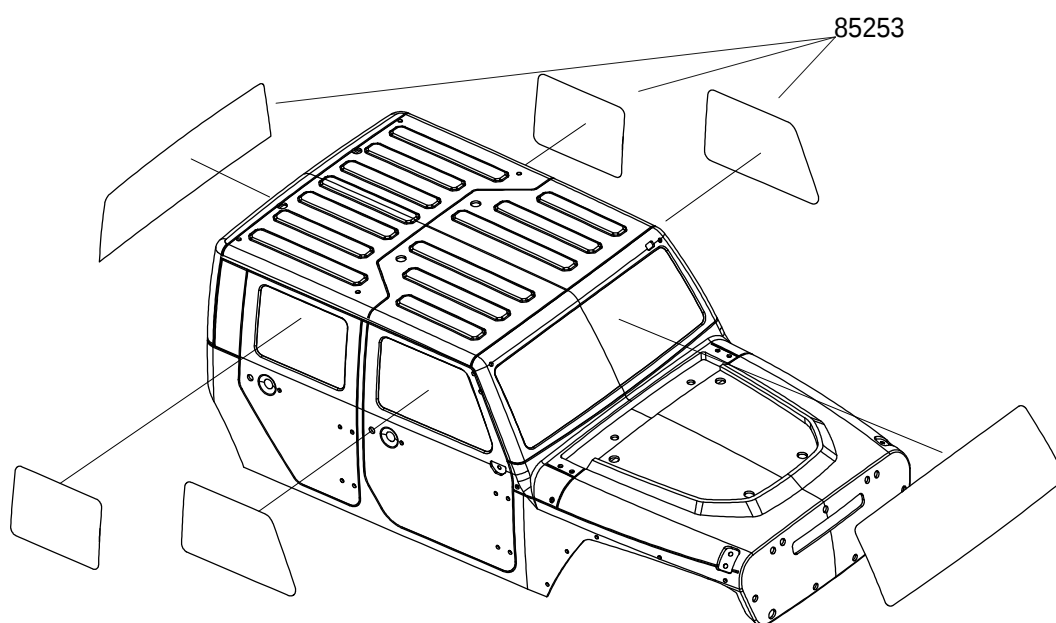
68

EMOXL2



69

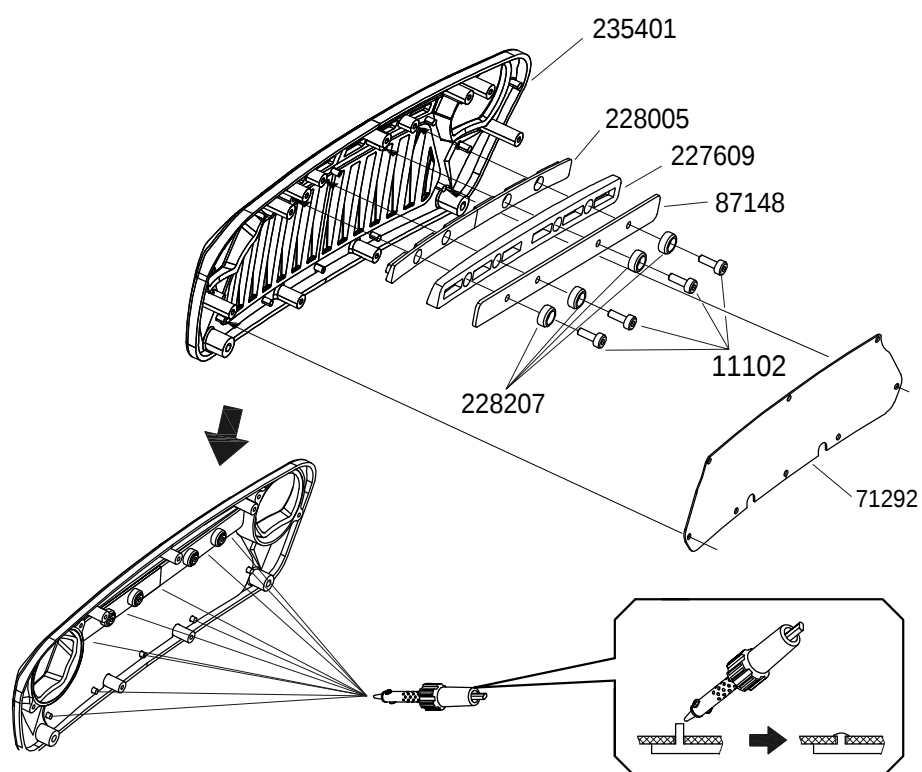
EMOXL2



70

EMOXL2

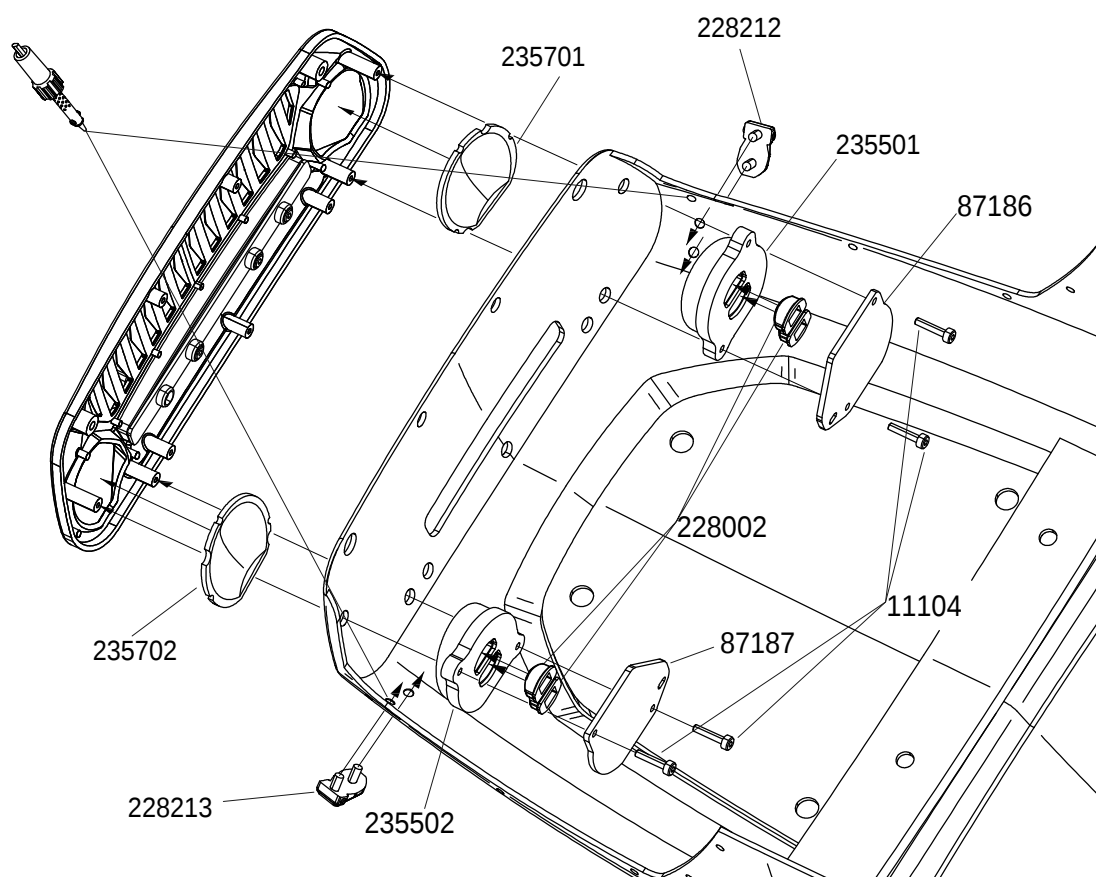
11102 
M2x6 X4



71

EMOXL2

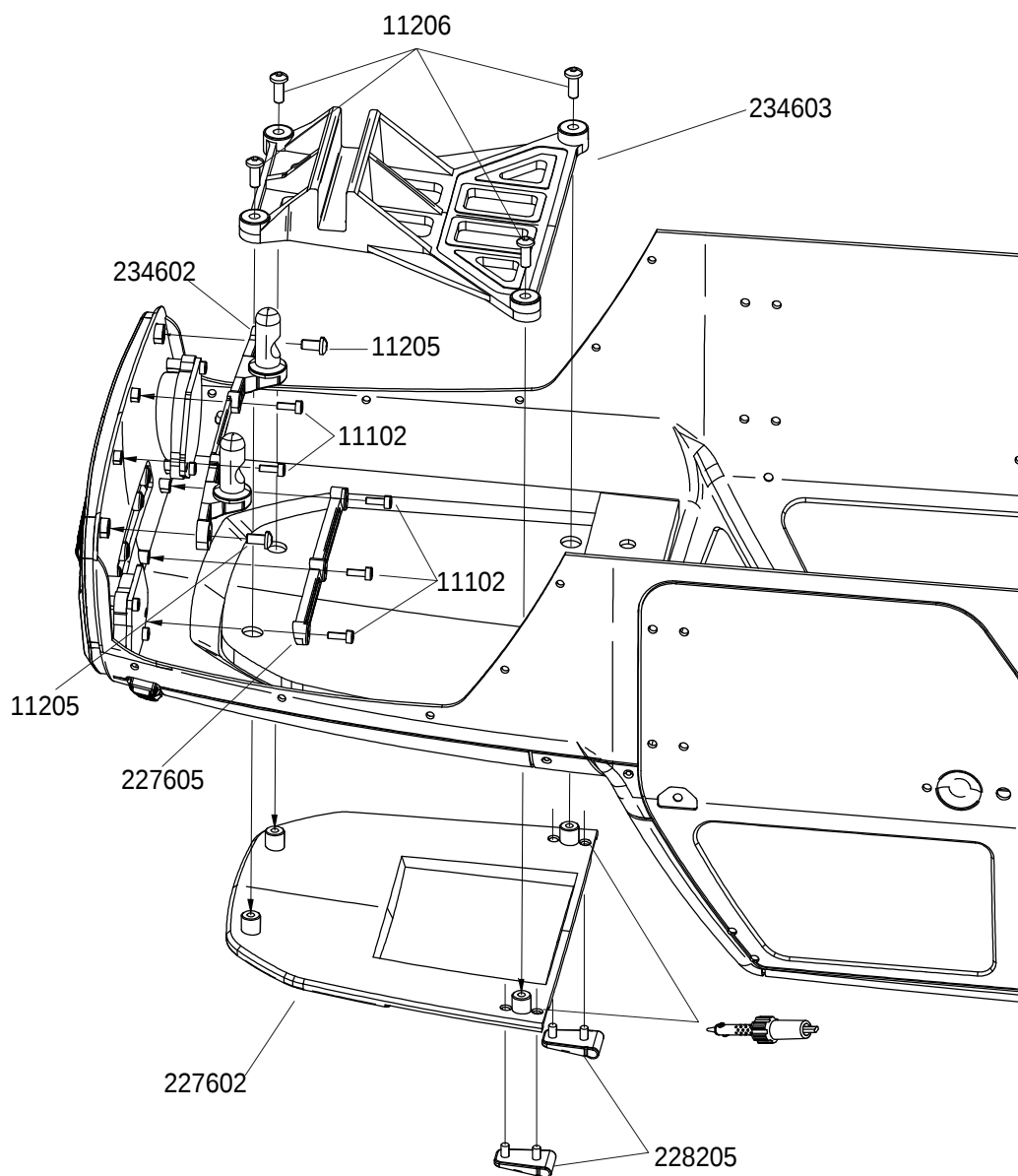
11104 
M2x10 X4



11206 
M3x8 X4

11102 
M2x6 X5

11205 
M3x6 X2

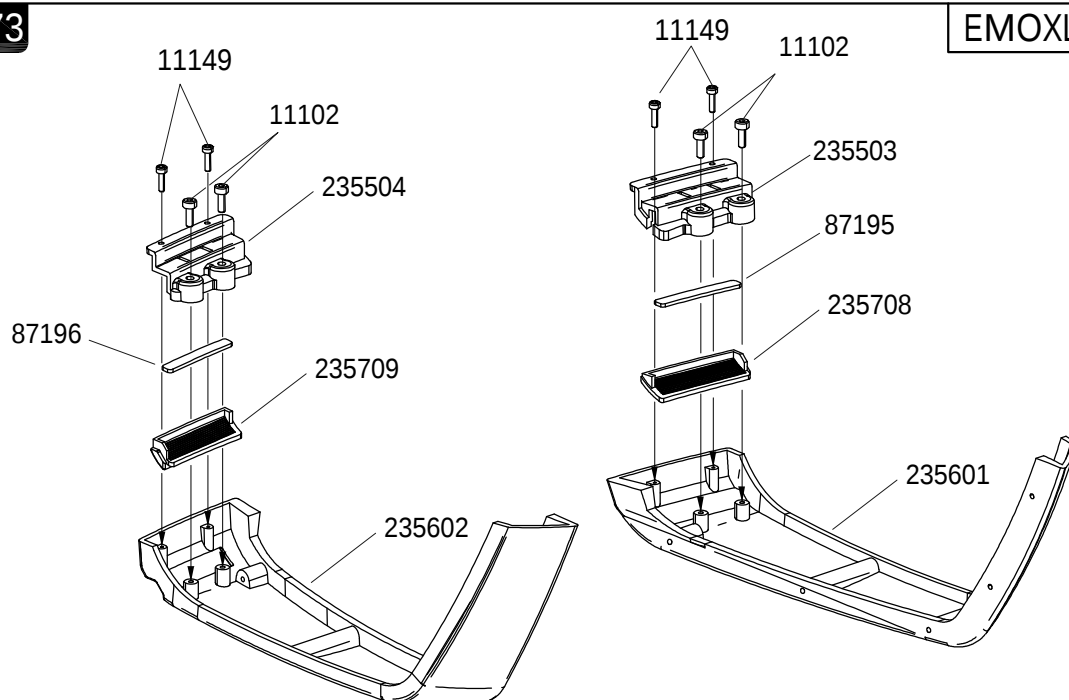


73

EMOXL2

11149  M1.6x6 X4

11102  M2x6 X4

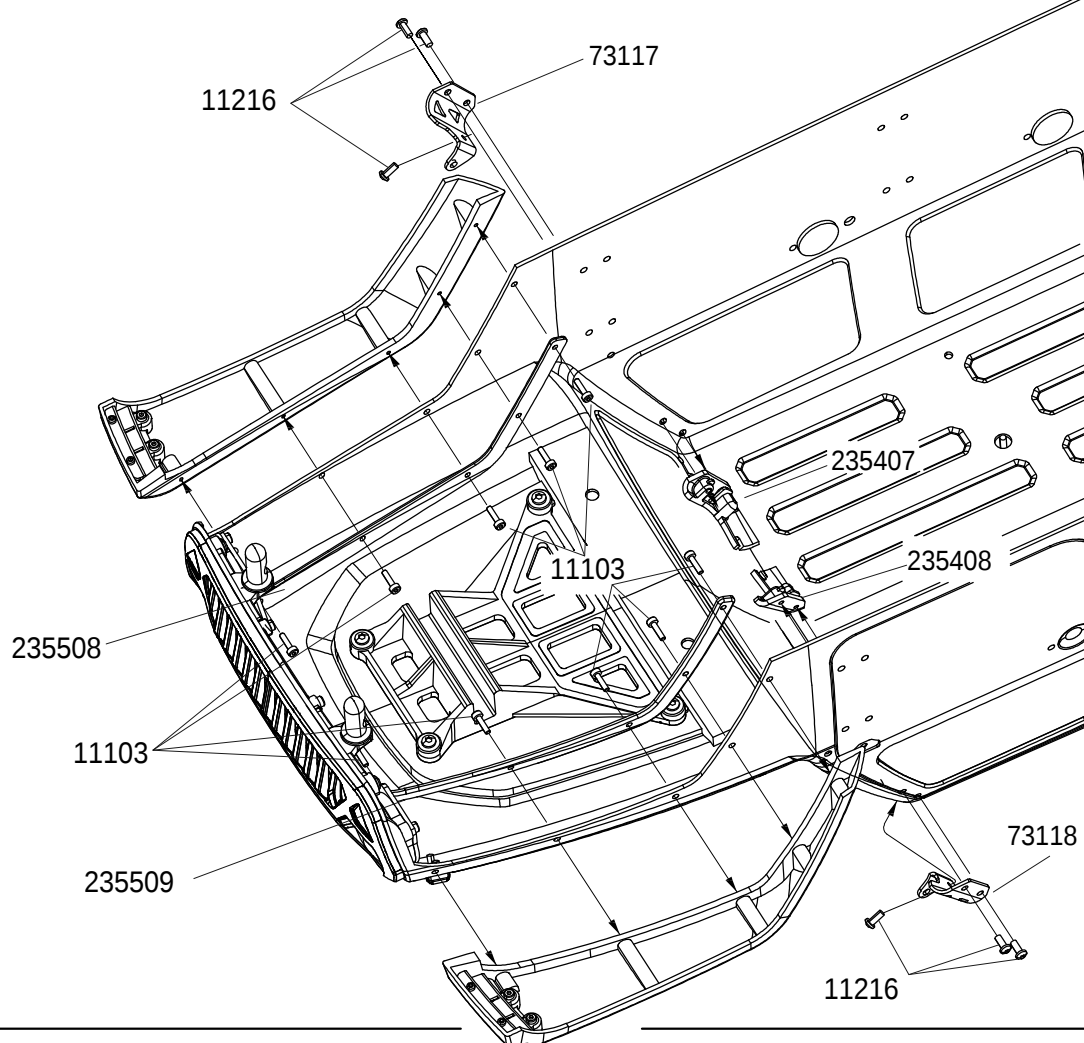


74

EMOXL2

11216  M2.5x6 X6

11103  M2x8 X10



75

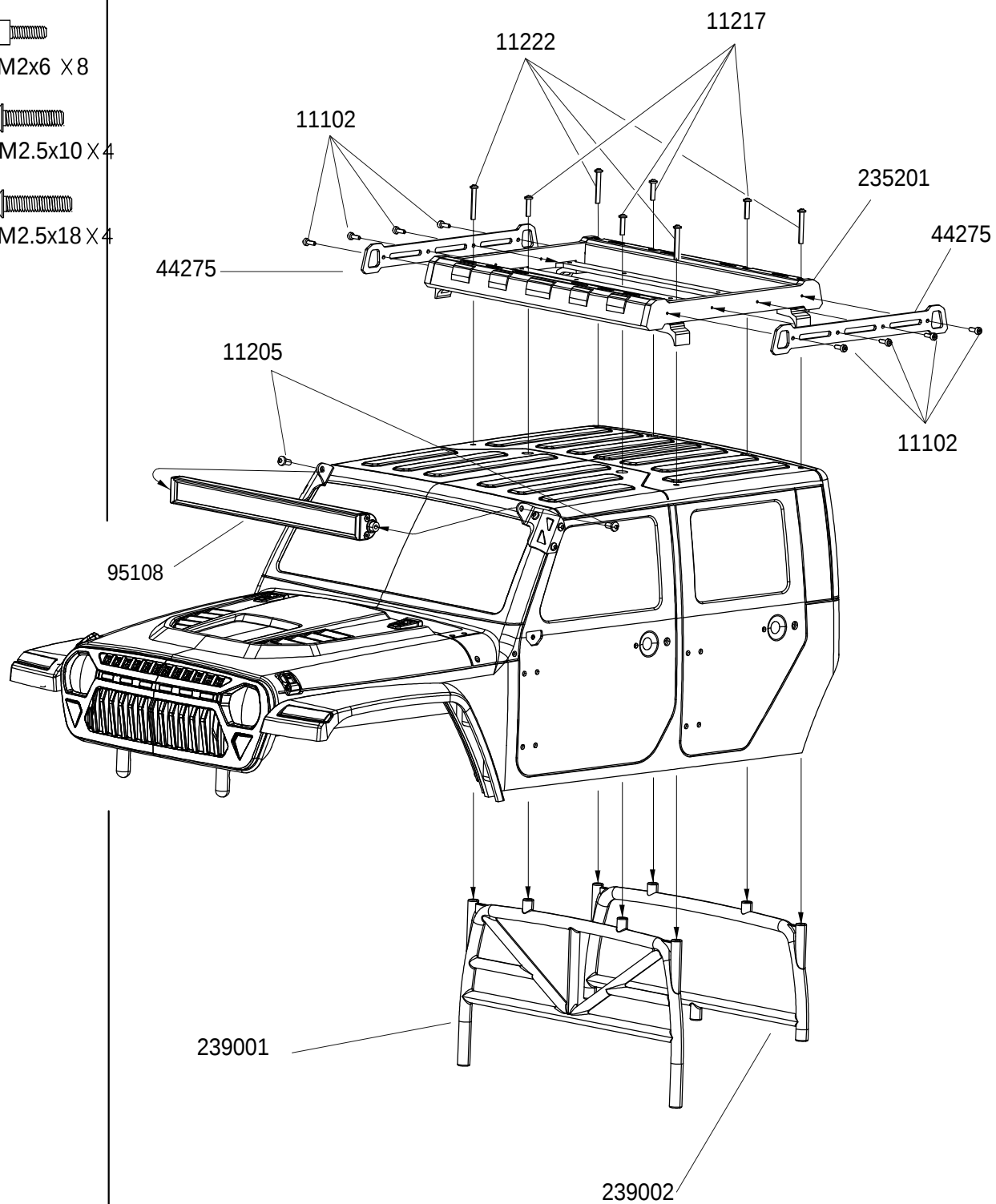
EMOXL2

11205 
M3x6 X2

11102 
M2x6 X8

11217 
M2.5x10 X4

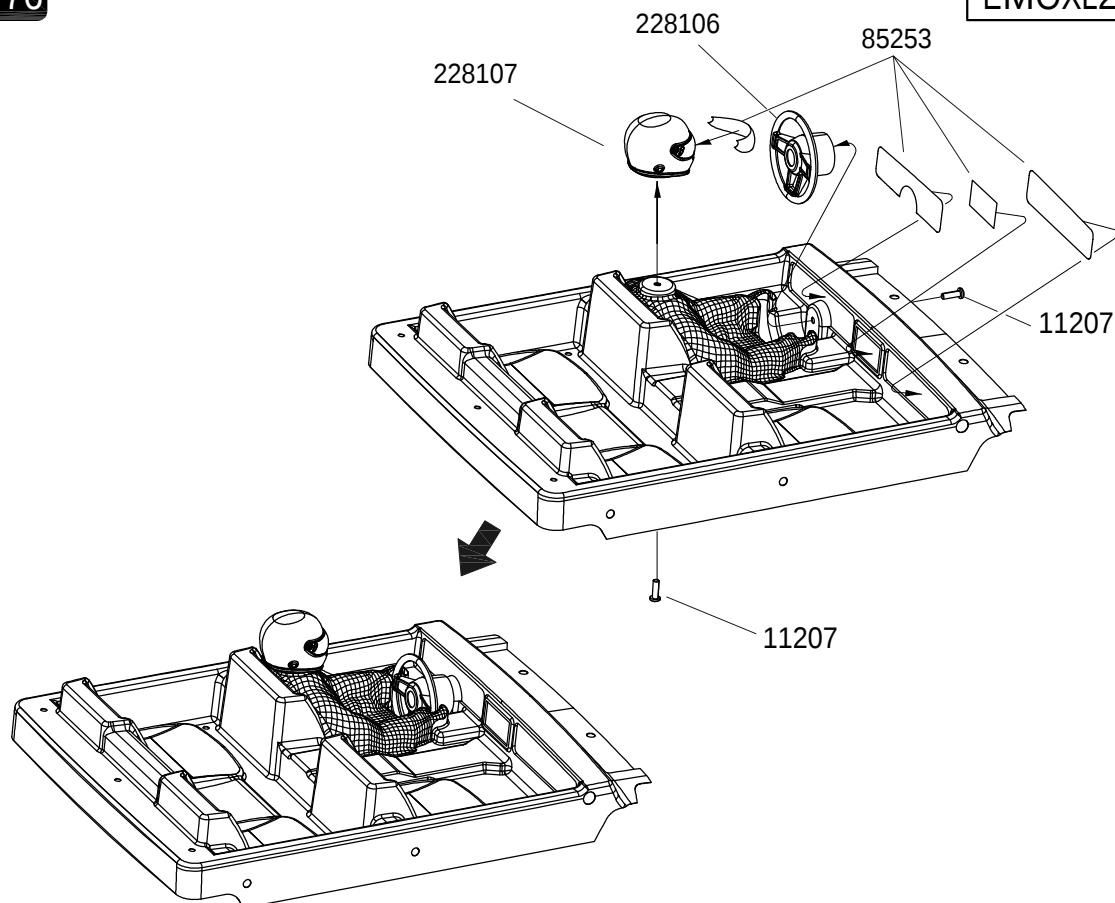
11222 
M2.5x18 X4



76

EMOXL2

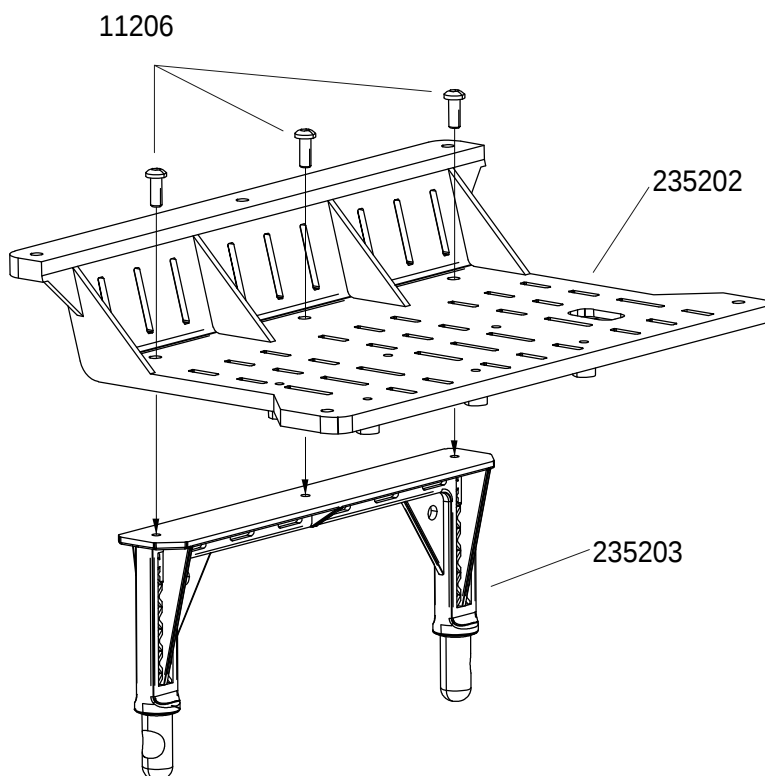
11207 
M3x10 X2



77

EMOXL2

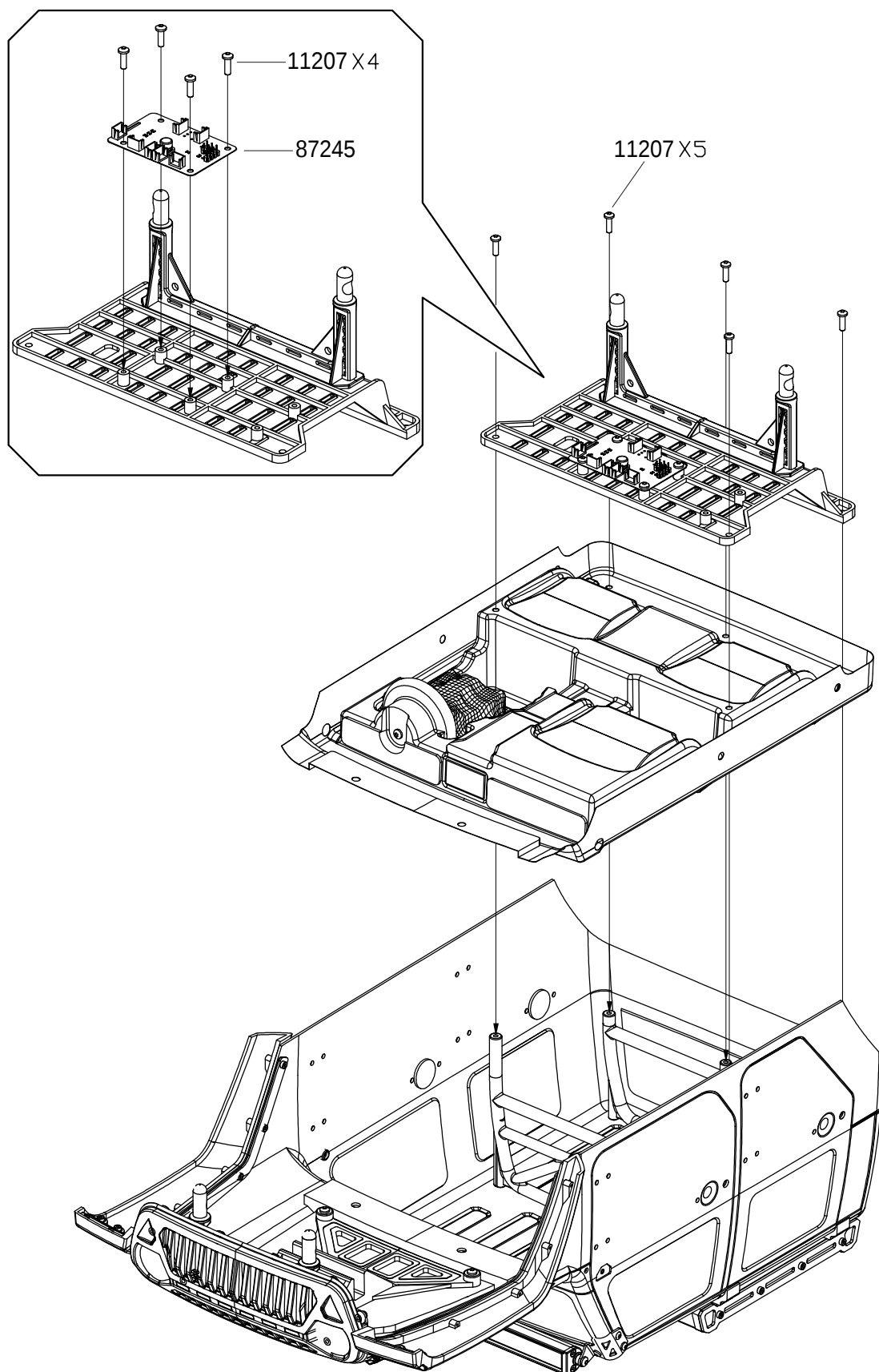
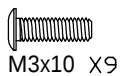
11206 
M3x8 X3



78

EMOXL2

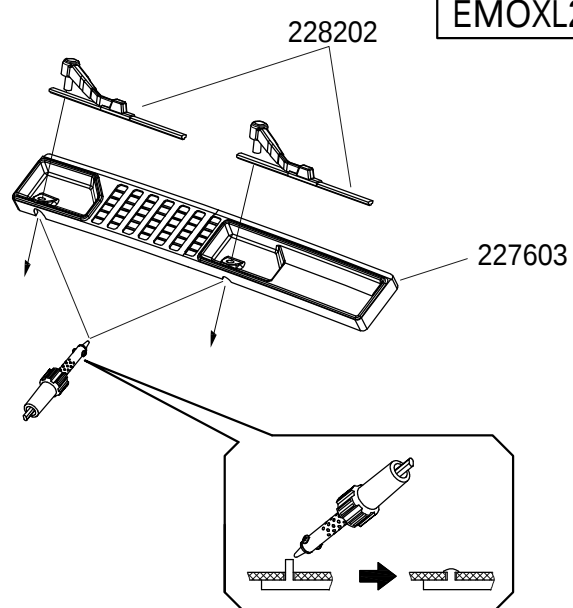
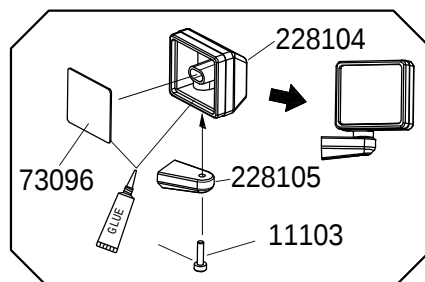
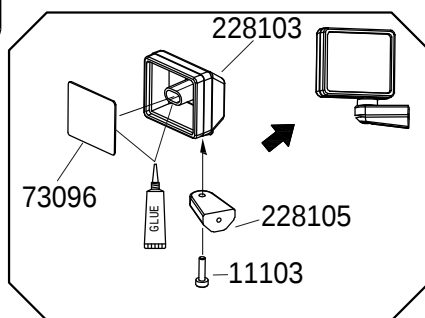
11207



79

EMOXL2

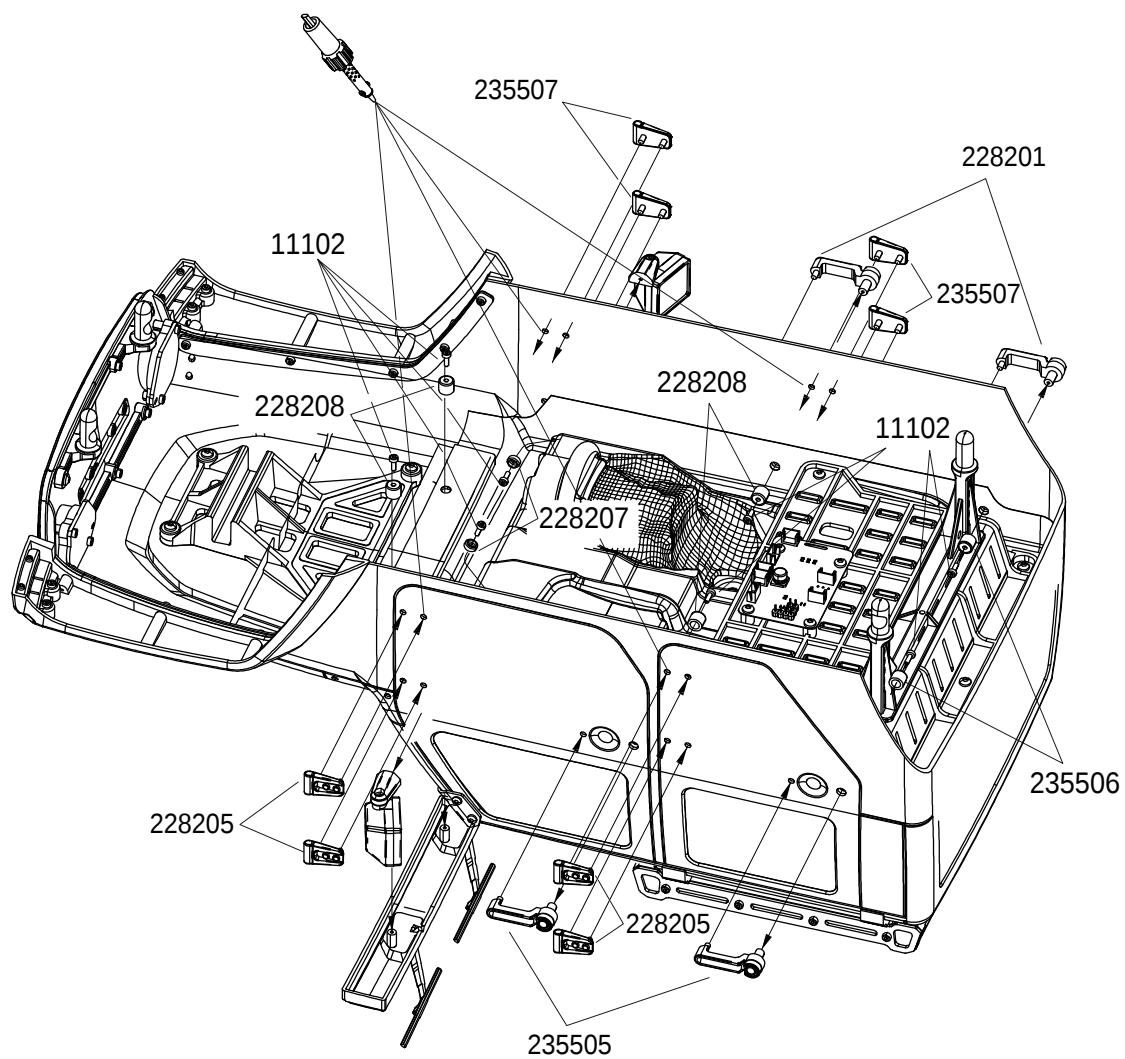
11103 
M2x8 X2



80

EMOXL2

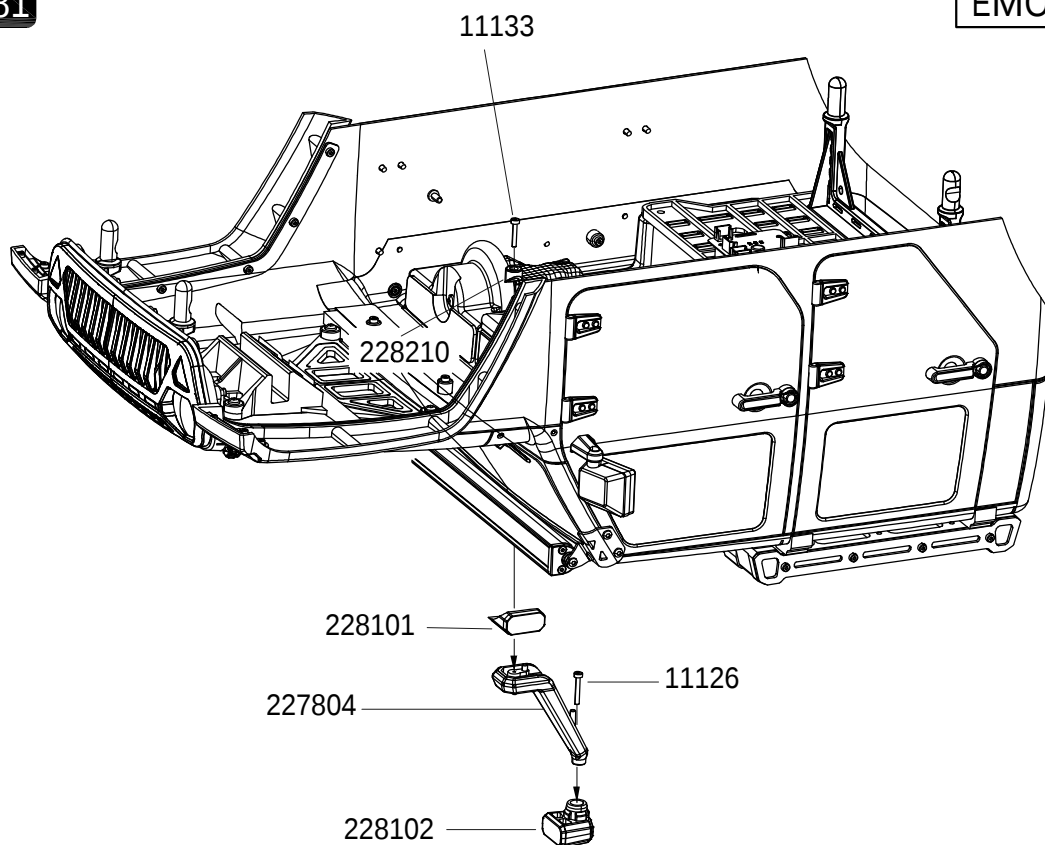
11102 
M2x6 X8



81

EMOXL2

- 11133  M2x12 X1
- 11126  M2x14 X1



82

EMOXL2

