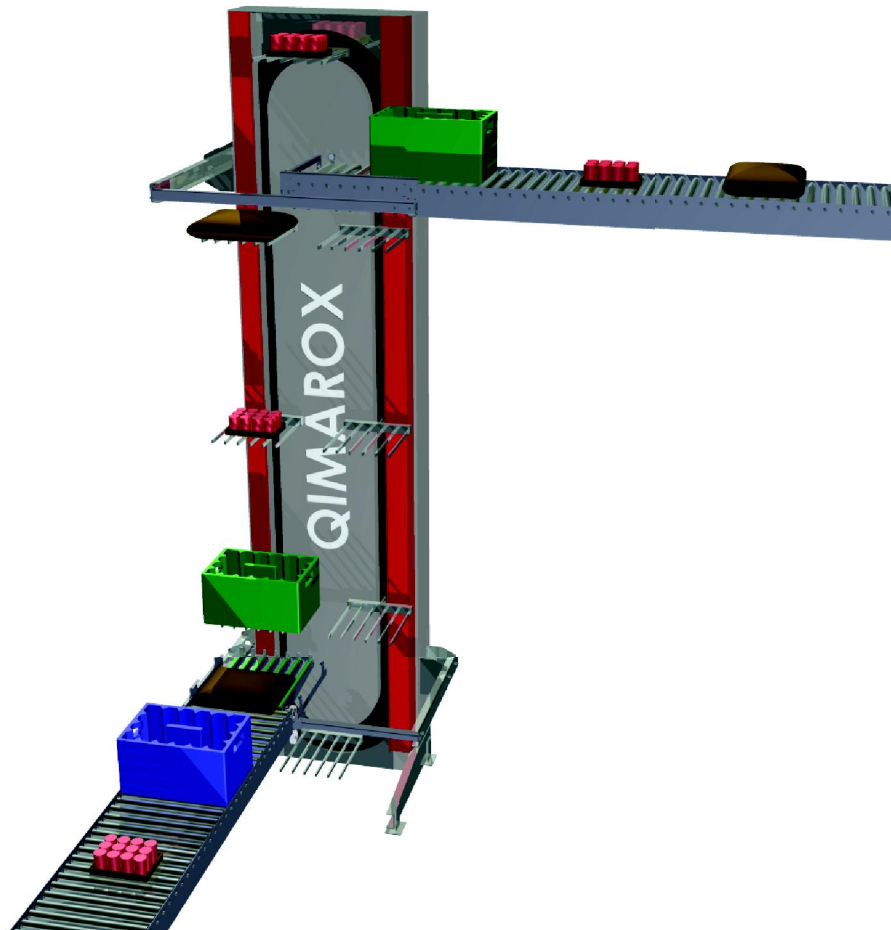




Assembly instructions
PRORUNNER mk5
Version 2.0 / 01-JUN-2013

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1 General

This chapter provides general information about the PRORUNNER mk5 and these assembly instructions.

1.1 Preface

These are the assembly instructions for the PRORUNNER mk5 product lift manufactured by Qimarox B.V. These instructions include all information that is important to you, the installer and/or user, to assemble the PRORUNNER mk5. The assembly instructions are intended for:

- resellers/OEMs (installers)
- end users (technical department)

These assembly instructions are a supplement to the user manual.

Always consult the user manual before use.

1.2 Manufacturer

Qimarox B.V.
Nobelstraat 43
3846 CE Harderwijk
The Netherlands

Tel: +31 341 436 700
Fax: +31 341 436 701
Email: info@qimarox.com
Internet: www.qimarox.com.

1.3 Patent

Patent protection applies to parts of this machine. Consequently, it is not permitted for other parties to build this product in this form unless Qimarox B.V. has given explicit permission to do so.

For the list of applicable patents, see: mk5patents.qimarox.com

1.4 Machine identification

The machine identification plate for the PRORUNNER mk5 is shown below.

Made in Holland. Designed and patented by 			PRORUNNER mk5
Manufacturing Year	:	www.Qimarox.com	
Type	:		
Serial number	:	mk5	
Order number	:		
Power supply	:		
Power (kW) PRORUNNER mk5	:		
Power (kW) conveyors	:		
Max. load (kg) per platform	:		
Max. load (kg) PRORUNNER mk5	:		
Weight PRORUNNER mk5 (kg)	:	Number of platforms	:
Weight conveyors (kg)	:	Nominal capacity (p/hour)	:
Total weight (kg)	:		
THIS PRODUCT IS PROTECTED BY ONE OR MORE PATENTS, FOR MORE INFO VISIT MKS/PATENTS.QIMAROX.COM			

Type plate for user manual

The type plate is located on the side of the lift.

For more information about the type plate, consult the user installation manual.

1.5 Guarantee

The scope and duration of the guarantee is agreed when the order is placed.

The guarantee applies only if the PRORUNNER mk5 is used according to the specifications and if the use and maintenance instructions are observed.

The PRORUNNER mk5 guarantee lapses if:

- Improper use.
- Inadequate maintenance.
- Improper maintenance.
- Changes to the PRORUNNER mk5 without prior consent from the manufacturer.

The guarantee does not apply to machine parts that need periodic replacement (wear parts).
For more information, consult the user manual.

1.6 Liability

Qimarox B.V. is not liable for unsafe situations, accidents and damage resulting from:

- Failing to observe warnings or rules displayed on the machine or described in these assembly instructions.
- Using the machine for applications or under circumstances other than known at the time the order is placed with Qimarox B.V. Modifying the machine in any way. This also applies to replacement parts other than those specified in these assembly instructions.
- Inadequate maintenance.

1.7 CE Declaration of Conformity

The machine complies with the essential requirements regarding safety and hygiene. For the guidelines that led to the design: see the CE Declaration annex of the user manual.

1.8 Trademark

The following terms are trademarks of Qimarox B.V. in the United States of America, the Netherlands and/or possibly other countries: Qimarox B.V. PRORUNNER.



All other trademarks are the property of their respective owners.

2 Safety

The responsibility of Qimarox B.V. lapses if the user does not comply with the guidelines and instructions provided in these assembly instructions for the assembly and construction of the PRORUNNER mk5.

2.1 Safety symbols

The following symbols are used in these assembly instructions:



Risk of damage to the PRORUNNER Mk5 if the instructions are not followed carefully.



Risk of serious injury to the user if the instructions are not followed carefully.

The following safety symbols may be attached to the PRORUNNER:



Danger for which the additional precautions described in this manual must be taken.



Danger of electrical voltage, attached to the control cabinets



Instructions for switching off the machine before carrying out maintenance activities, attached to the side frame of the machine.



No access beyond this point, attached to every access door or opening before reaching the danger zone.



Risk of trapping upper limbs, if applicable attached near the openings near the forks for the infeed and outfeed roller tracks.



Risk of trapping upper limbs between moving rollers, if applicable attached near the infeed and outfeed roller tracks.

2.2 Installation



Before the PRORUNNER mk5 is put into service, all of the parts the machine is composed of must comply with the applicable local regulations. See the user manual for installation instructions. Feel free to contact Qimarox B.V if you need assistance.

The PRORUNNER mk5 may only be assembled by qualified personnel.



The safety instructions stated in this manual must be observed. Deviating from the instructions may result in unacceptable risks!

The installer must be familiar with the contents of the user manual.

2.3 Modifications



Modifications that can affect the safety of the product lift may only be carried out with the permission from persons authorised by the directors.



Do not make any modifications that conflict with the local, regional or national legislation.



Ensure that the on/off switch is readily accessible.

Qimarox B.V. is always willing to discuss improvements by modifications to the machine. See Further support and information in the user manual.

2.4 Safety devices



It is not permitted to disassemble, bypass or disable any safety devices. See the user manual for the required references.



The PRORUNNER mk5 may not be started or must be immediately taken out of service if one of the safety devices is defective.

The PRORUNNER mk5 must be equipped with the following safety devices:

Emergency stop Use the emergency stop (A) in the event of an an emergency.

Fencing Qimarox B.V is obliged to guard the PRORUNNER mk5 with a fence. The access door(s) must be secured with (interlock) door switches. These switches must be included in the emergency stop circuit.



The doors must not never be closed if someone is inside the fencing.



The machine must be switched off and secured when prolonged work is carried out inside the fencing.



Always put all of the safety devices that were removed back in place as soon as maintenance work has been completed.

2.5 Safety instructions

Observe the following general safety instructions:

- Connect the PRORUNNER mk5 in accordance with the basic health and safety requirements of the relevant European directives.
- Before you put the PRORUNNER mk5 into service, check that the machine has been installed in accordance with the instructions in this manual.
- Never switch on the power to the PRORUNNER mk5 or start the PRORUNNER mk5 if there are people in contact with the machine or if there are people inside the danger zones.
- Switch off the power to the machine using the main switch before carrying out any maintenance or repair work on the PRORUNNER mk5. Secure the main switch with a padlock.
- Keep your hands away from danger zones.
- Be careful of loose clothing and hair.
- Wear head protection.
- Make sure there are no people or objects within reach of the moving parts of the PRORUNNER mk5.
- Replace damaged or defective parts before putting the PRORUNNER mk5 into service again.
- Maintenance of the PRORUNNER mk5 must be carried out by trained engineers.
- Always be on the alert for dangerous situations.

2.6 Residual risks

The machine is intended to be integrated into a transport system. Qimarox B.V has covered potential dangers as much as possible. Eliminate or guard the following residual risks before putting the whole assembly into service:

- Risk of injury caused by falling products.
- Risk of injury as a result of moving product holders.
- Danger that occurs in places where the PRORUNNER mk5 connects to other parts of the production line.

The interior of the machine is accessible through the large openings in the front frame. Guards may also be required for the supply, output, infeed and outfeed conveyors.

All other sides of the machine do not need extra screening. However, one must, if the top cover on the rear is accessible, make sure that the recess for the electric motor is not too large and possibly take measures to make the recess smaller or inaccessible.

If the machine is not only accessible from ground level, guard the places where this may cause danger.

2.7 Maintenance

The PRORUNNER mk5 may only be maintained by qualified personnel.



The safety instructions stated in the user manual must be observed. Deviating from the instructions may result in unacceptable risks!
Only use spare parts from Qimarox B.V.

The maintenance engineer must be familiar with the contents of the user manual.

2.8 Disposal and the environment

Use and maintenance of the lift do not bring along any environmental risks. All parts can be disposed of as customary.



ENVIRONMENT

Consider local legislation, rules, instructions and precautions regarding safety, health and the environment.

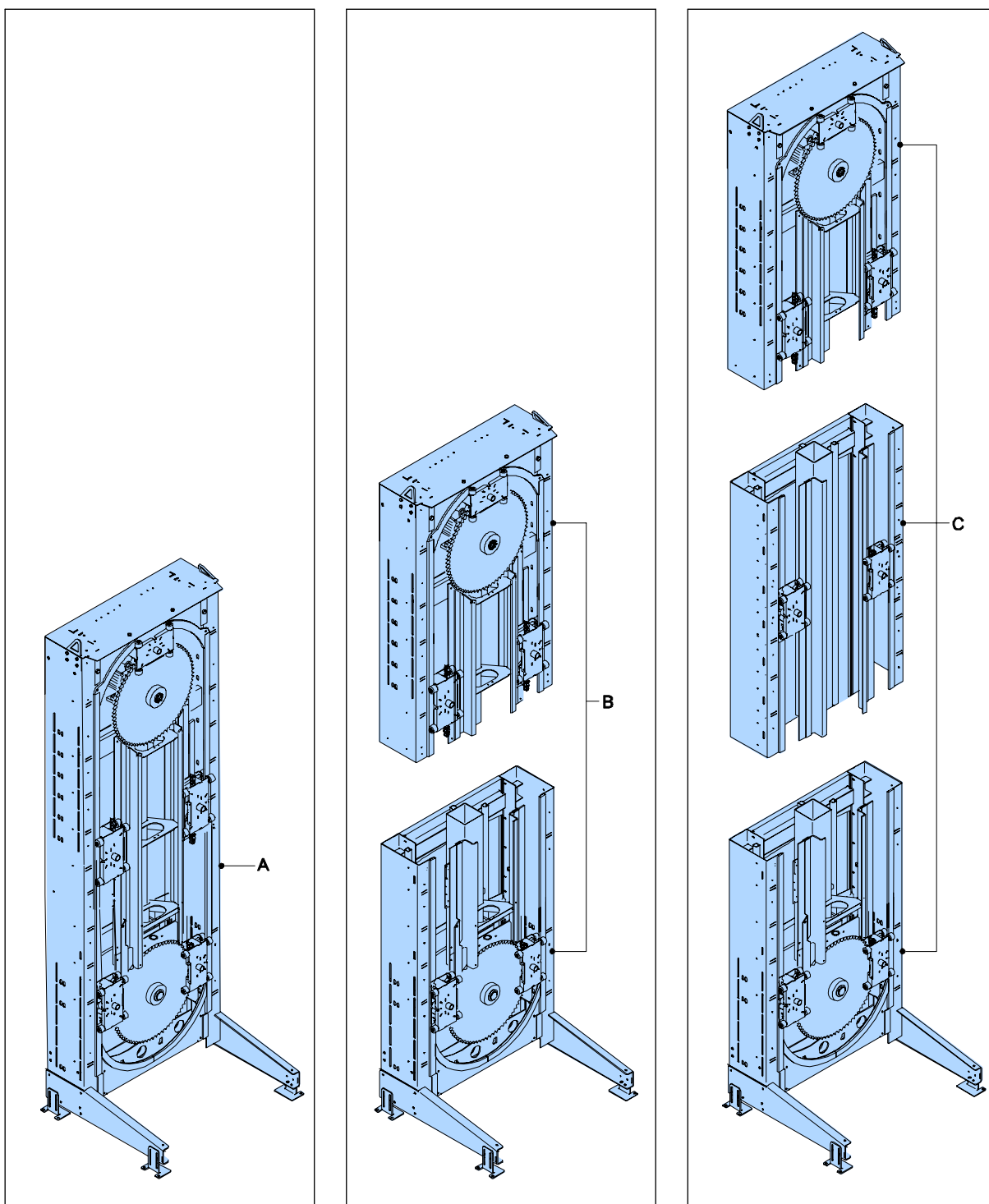
2.9 Further support and information

Qimarox B.V. is committed to providing the best user support. The support may include the following:

- Training
- Installation assistance
- Service contracts

Contact Qimarox B.V. for more information.

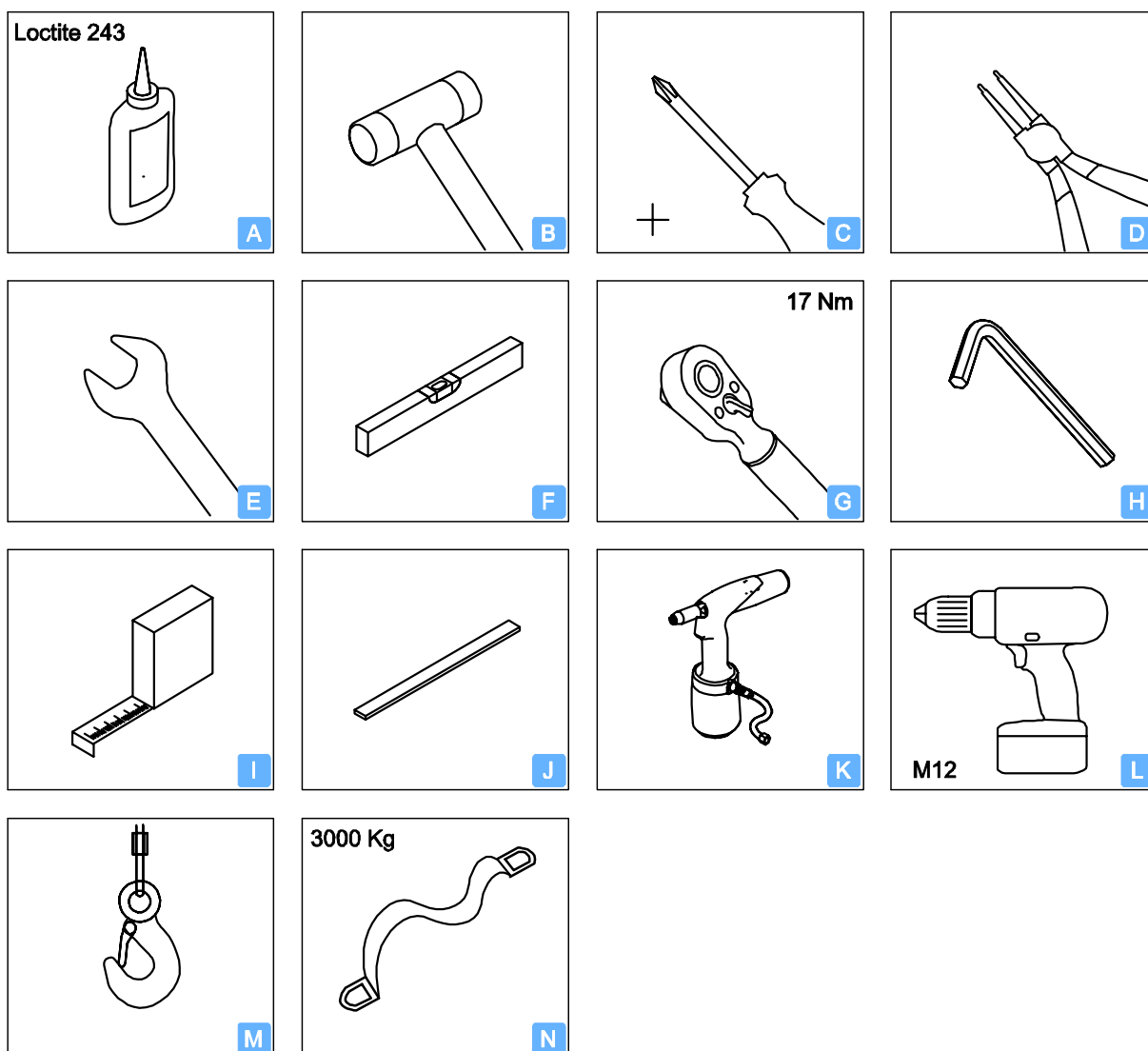
3 Overview PRORUNNER mk5 sections



A Section is a complete unit B Section is in two parts

C Section is in three or more parts

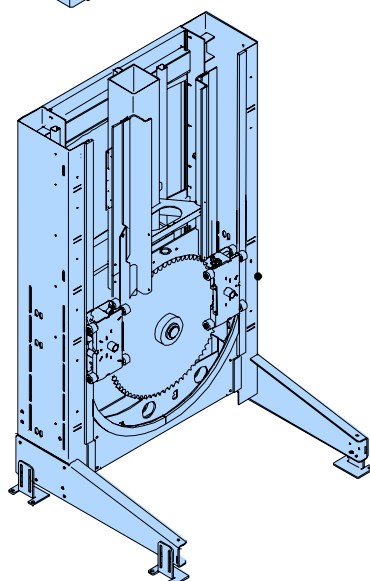
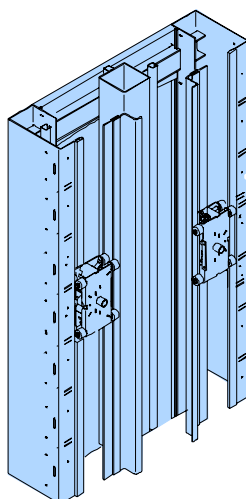
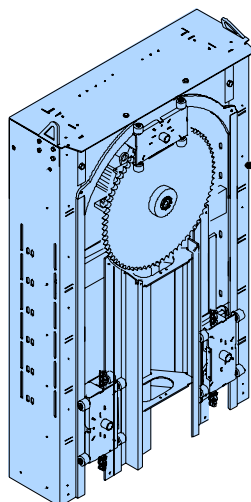
4 Required tools and pictograms



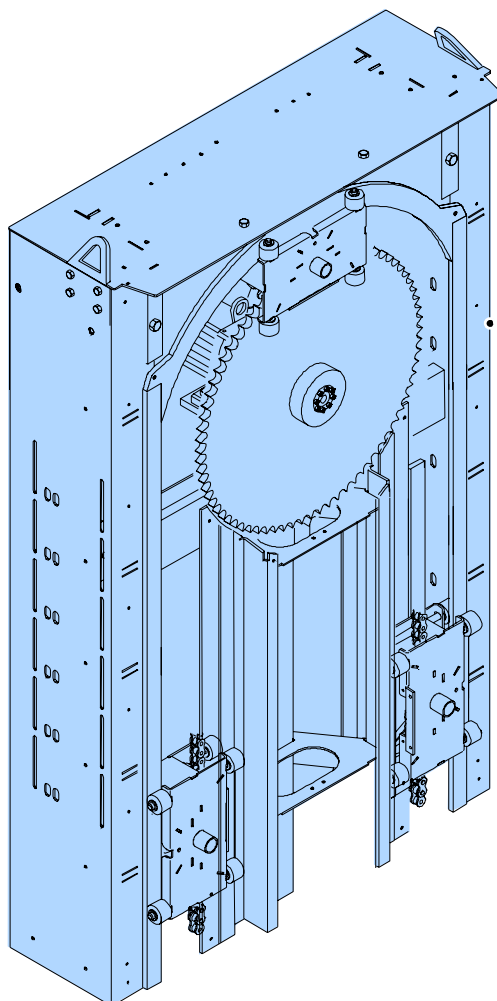
- A Loctite 243
- B Hammer (plastic)
- C Crosshead screwdriver
- D Pliers
- E Spanner
- F Spirit level
- G Torque wrench
- H Socket head wrench

- I Tape measure
- J File
- K Pop rivet gun
- L Electric drill
- M Hoist
- N Hoisting belt

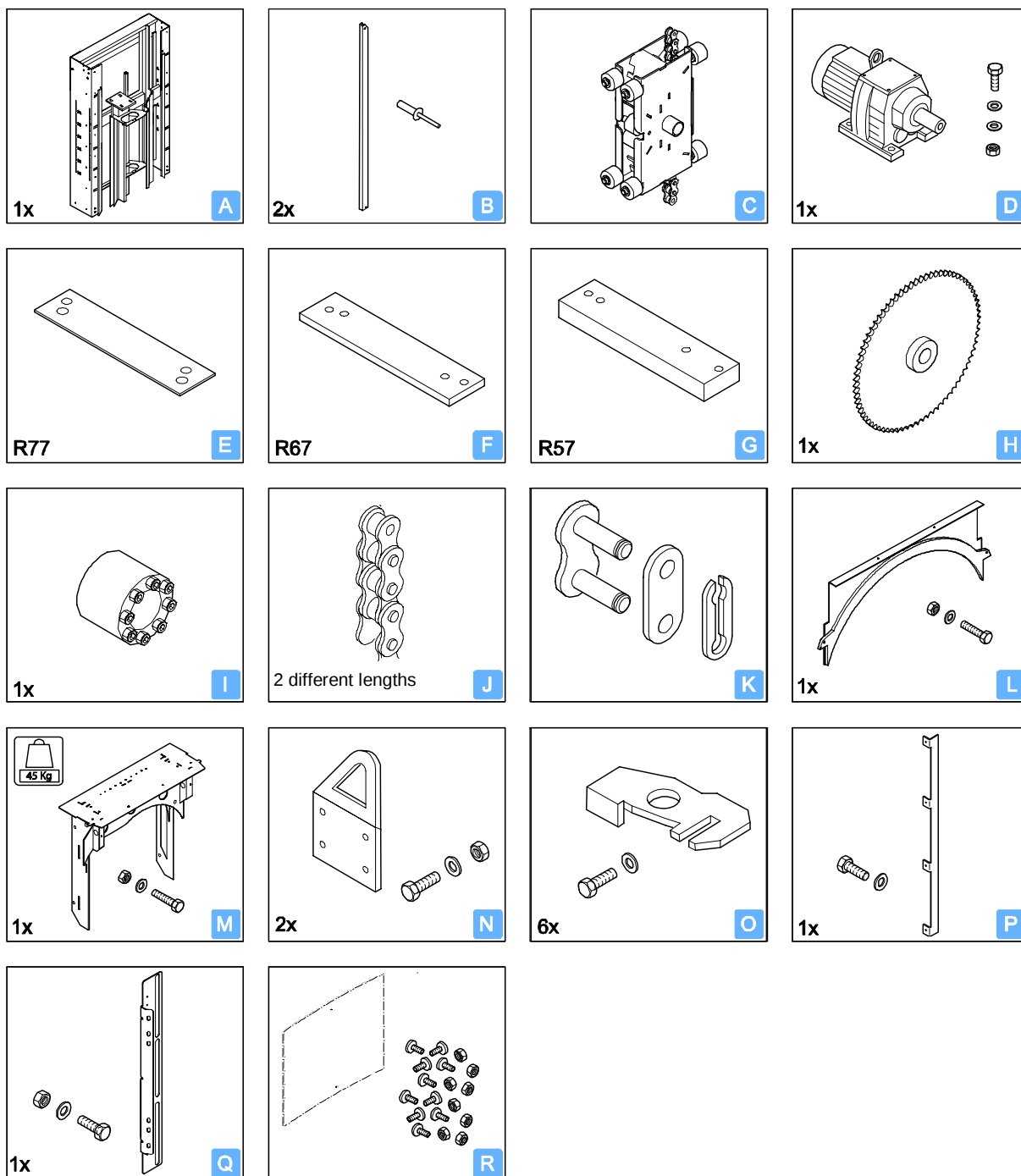
5 Assembly instructions



5.1 Drive section



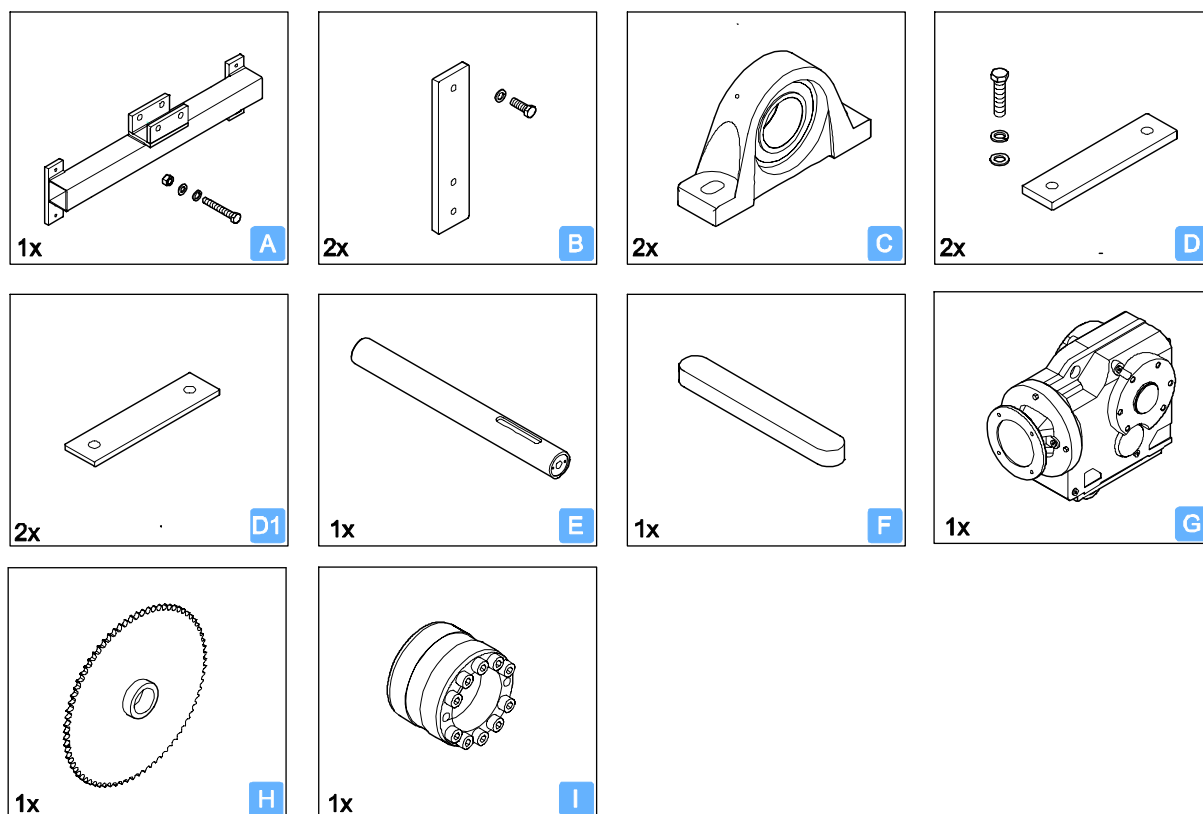
5.1.1 Drive section parts



Fit the mountings and panels at a later stage

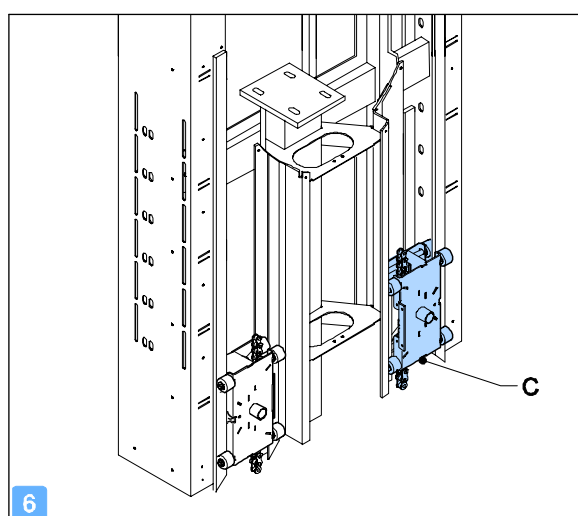
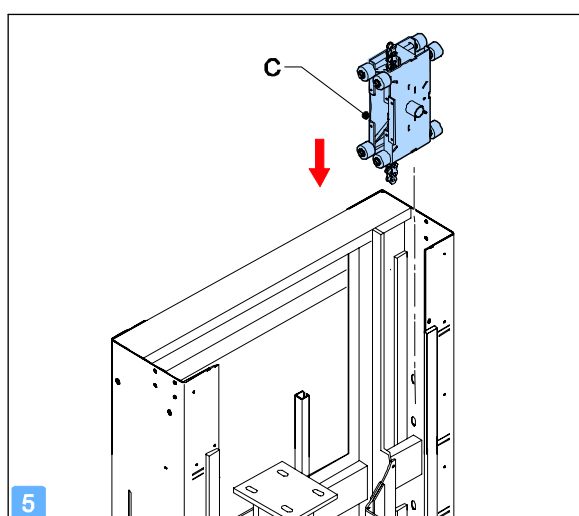
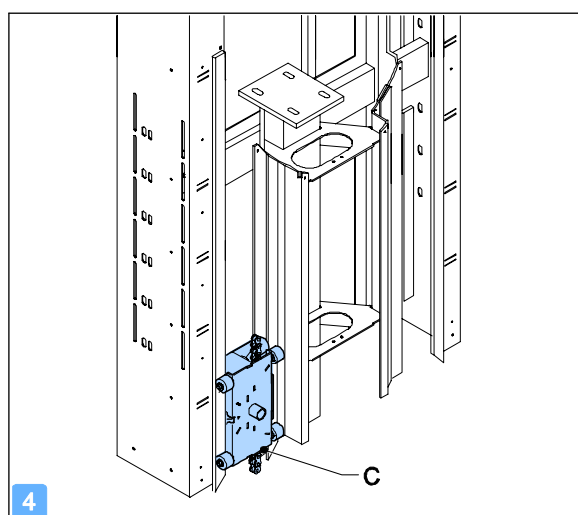
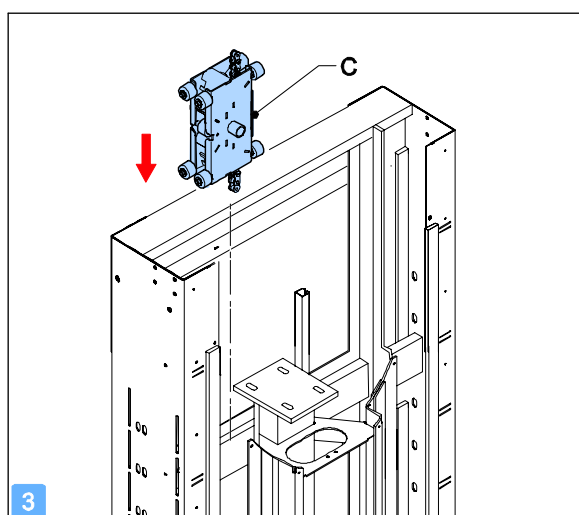
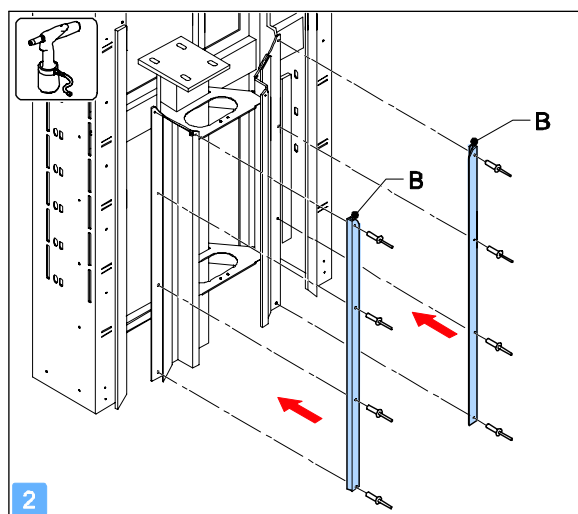
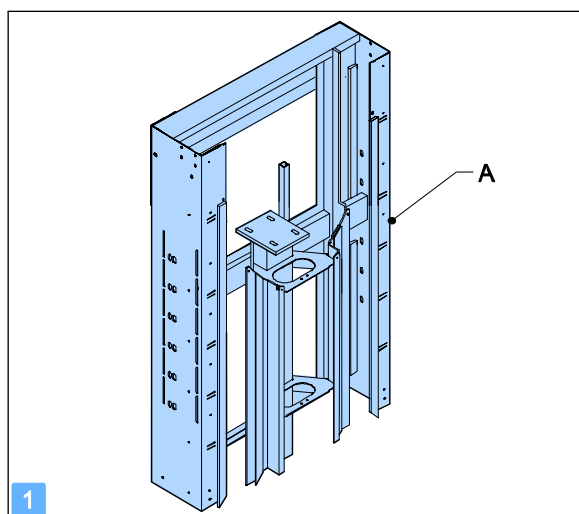
 For the part numbers, see Section 6.1

5.1.2 Reductor parts list (optional)

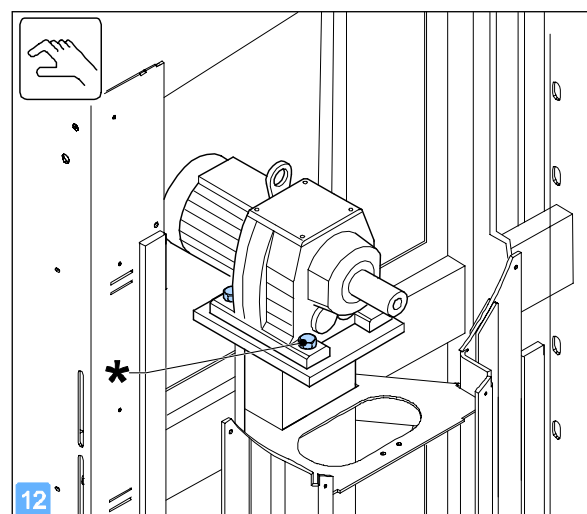
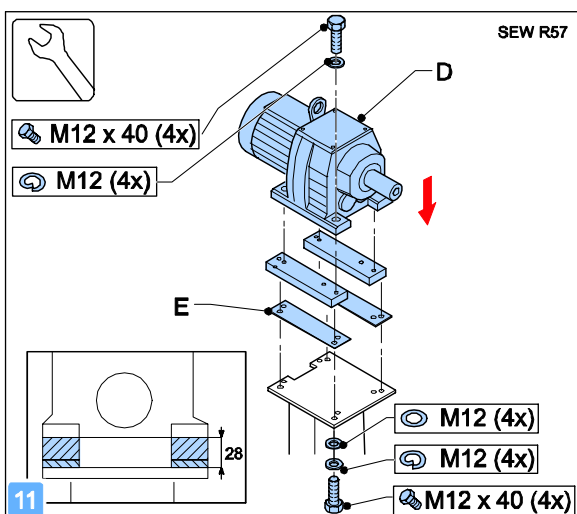
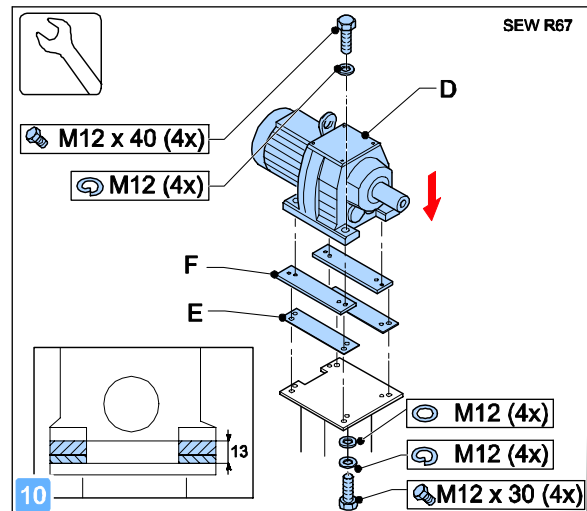
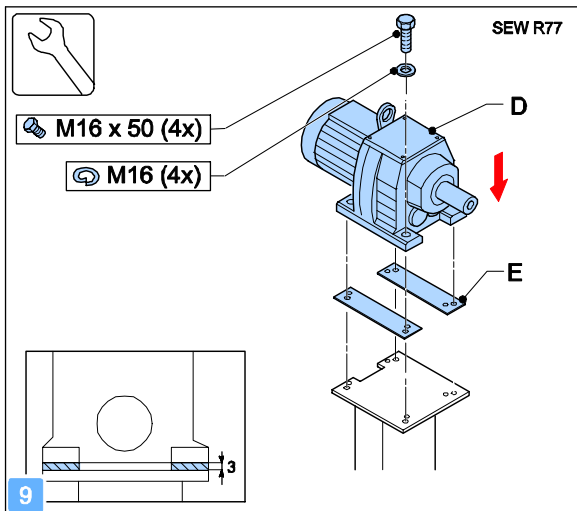
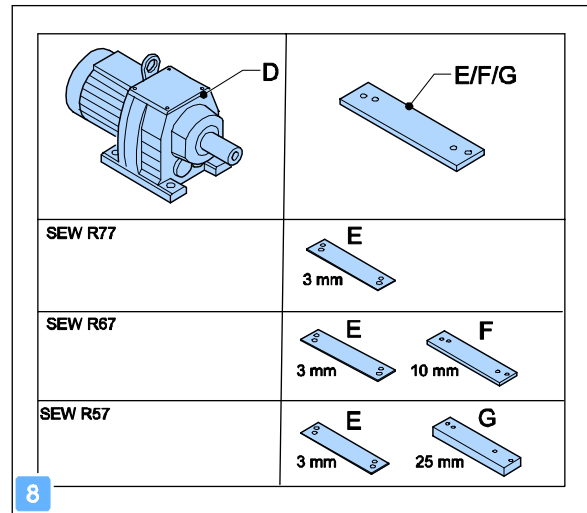
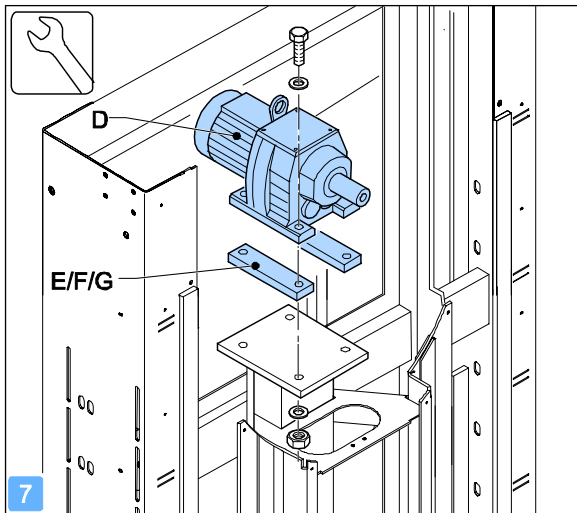


i For the part numbers, see Section 6.1
For instructions, see Section 5.1.4

5.1.3 Drive section assembly 1/6

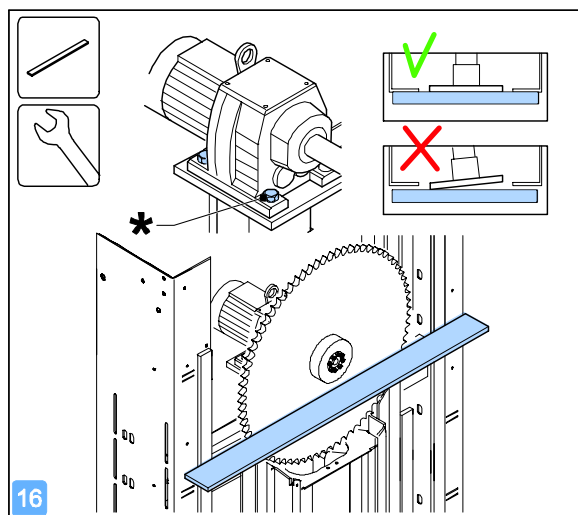
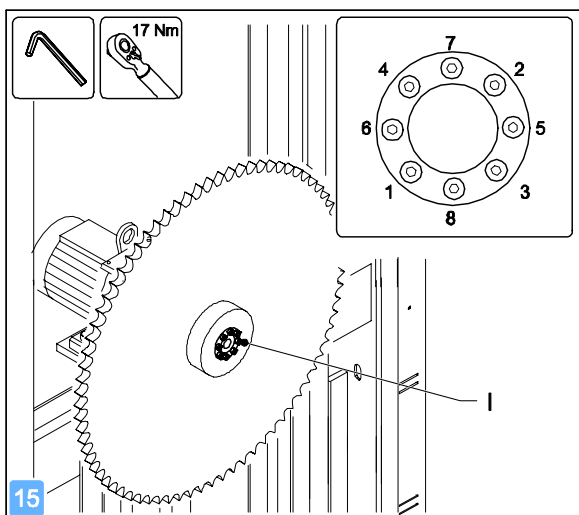
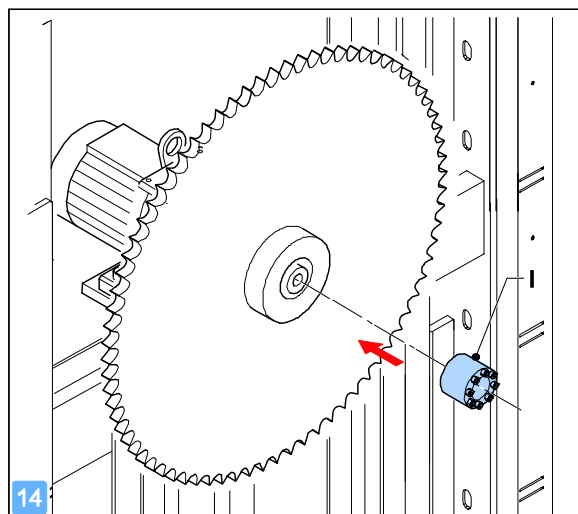
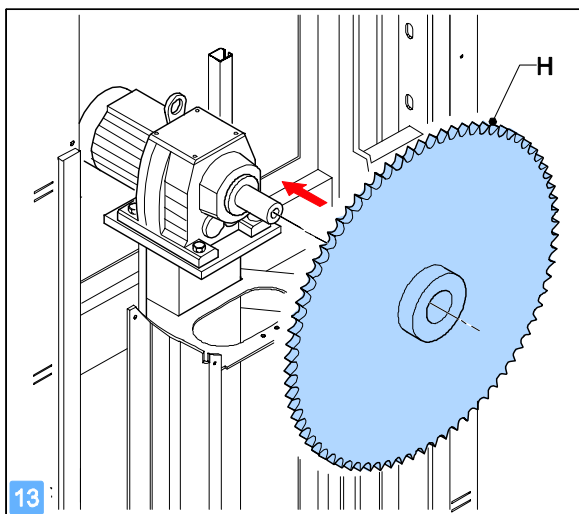


Drive section assembly 2/6

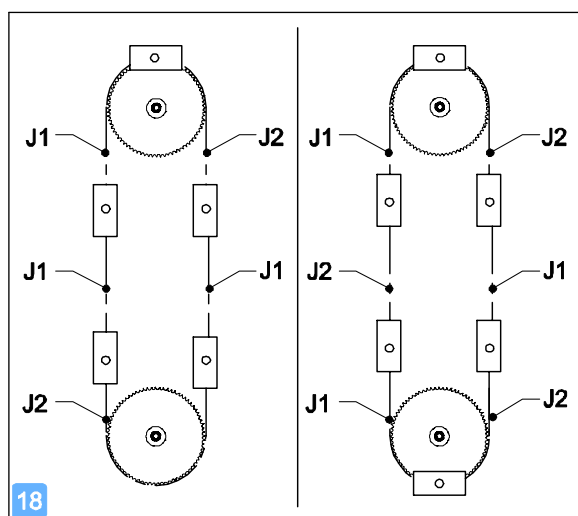
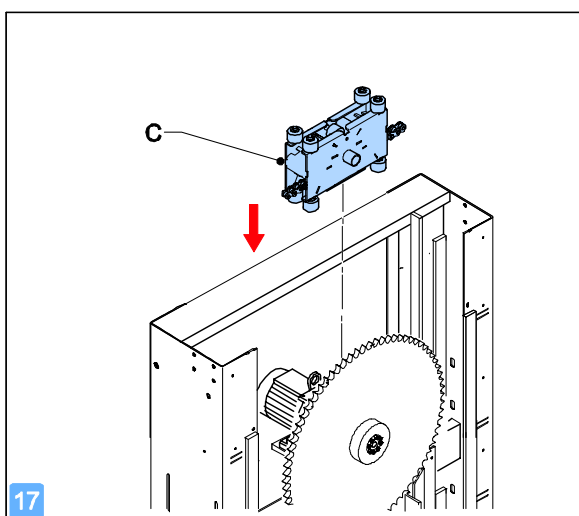


* Bolts finger tight, tighten at a later stage

Drive section assembly 3/6

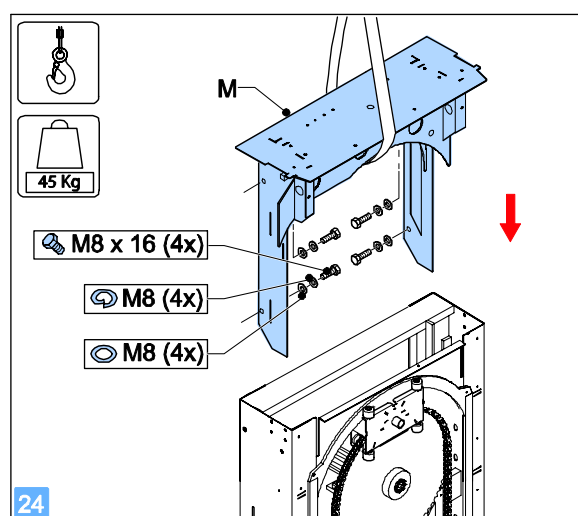
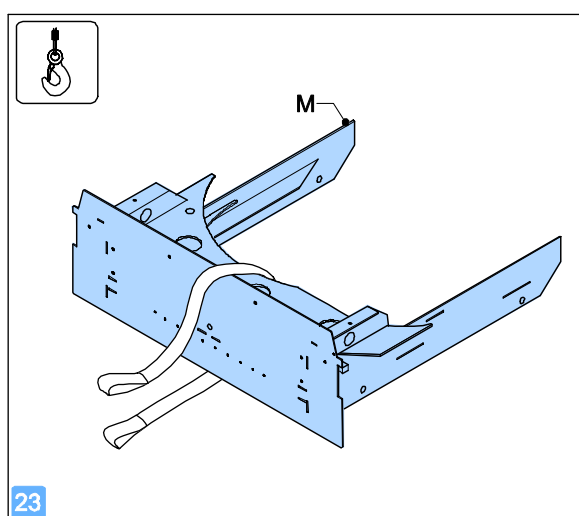
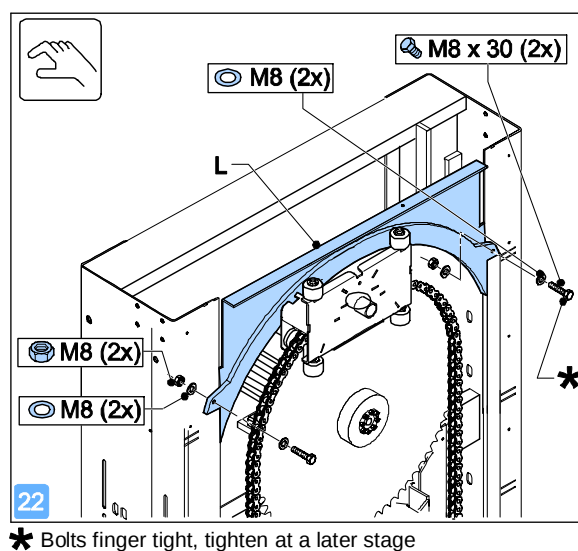
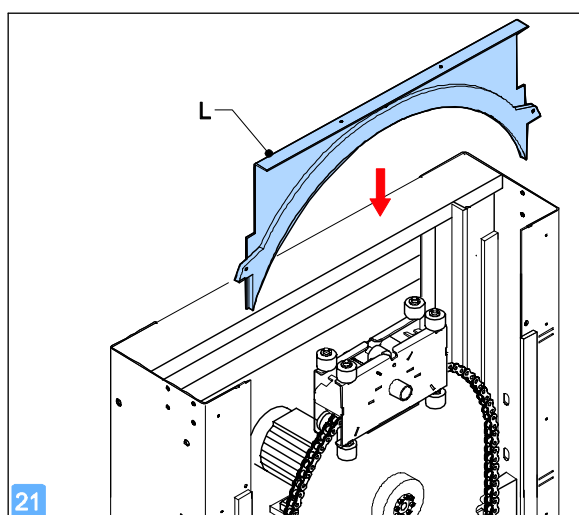
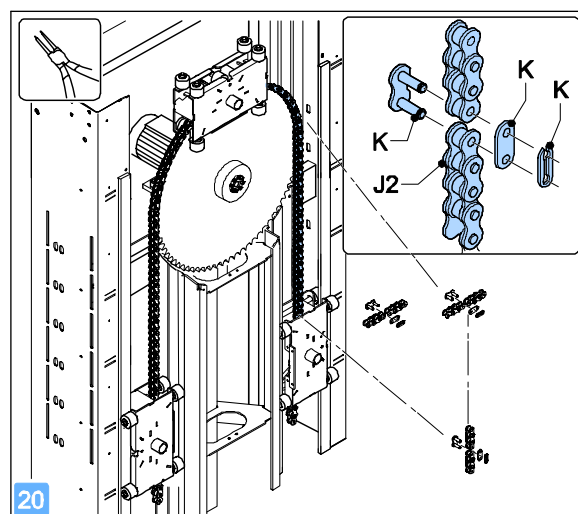
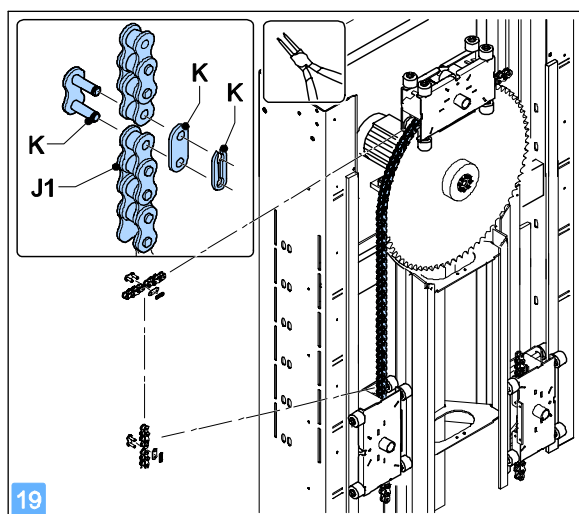


* Tighten bolts now

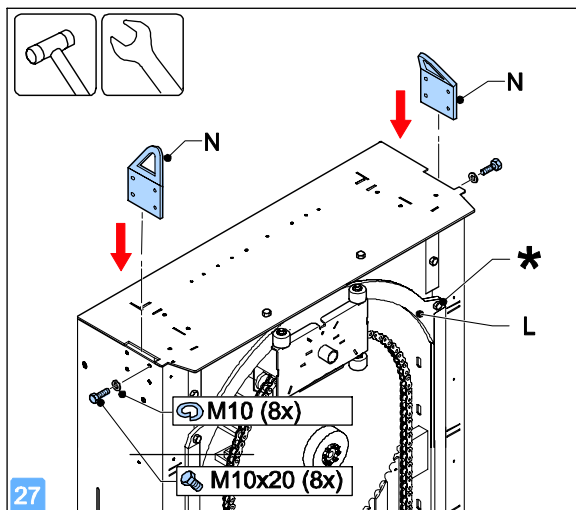
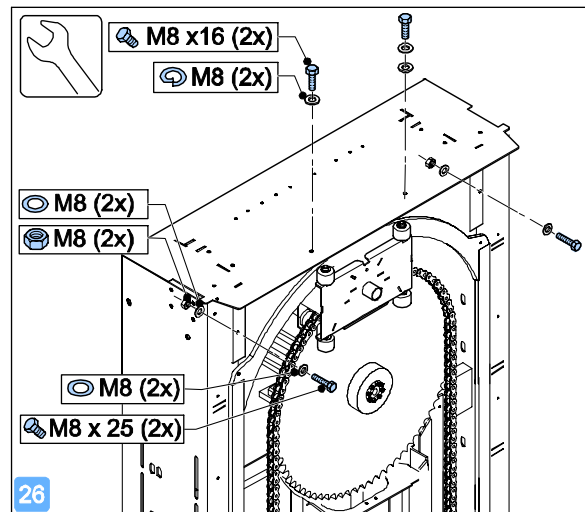
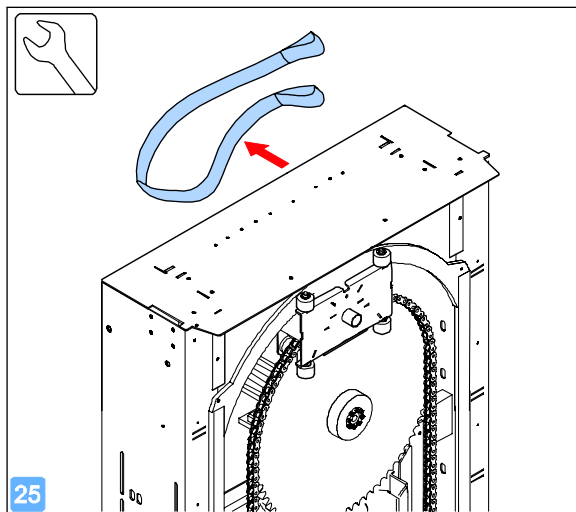


Fit chains J1 and J2 alternately

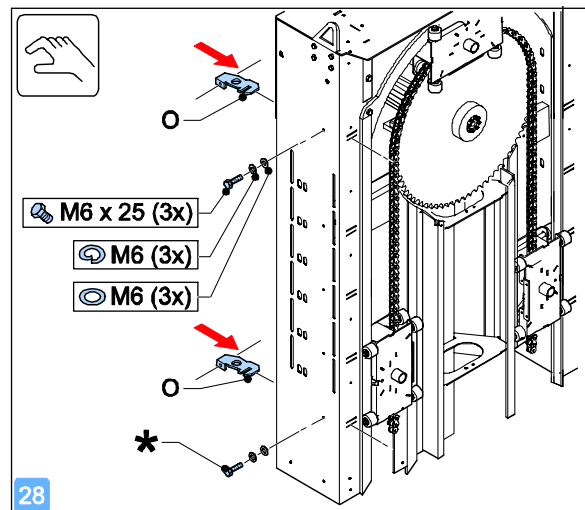
Drive section assembly 4/6



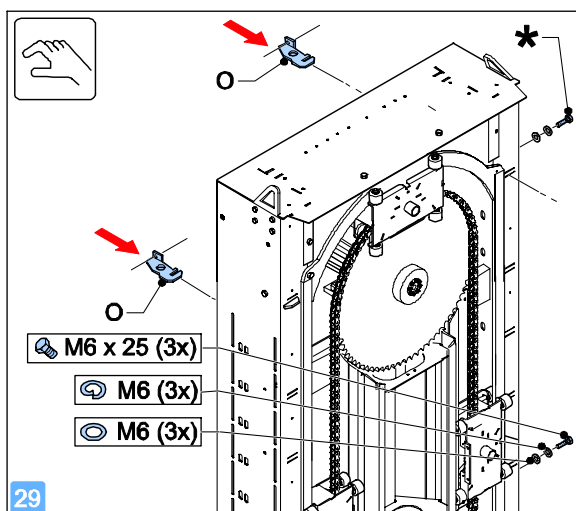
Drive section assembly 5/6



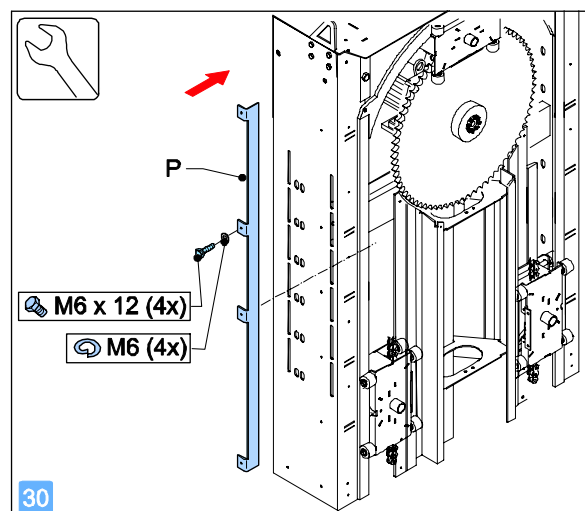
* Tighten bolts now



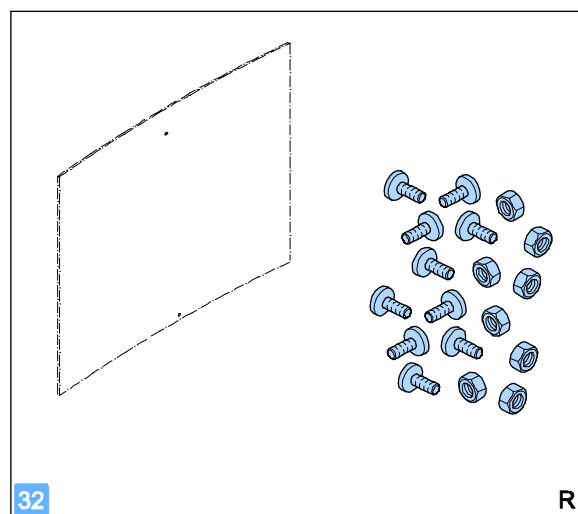
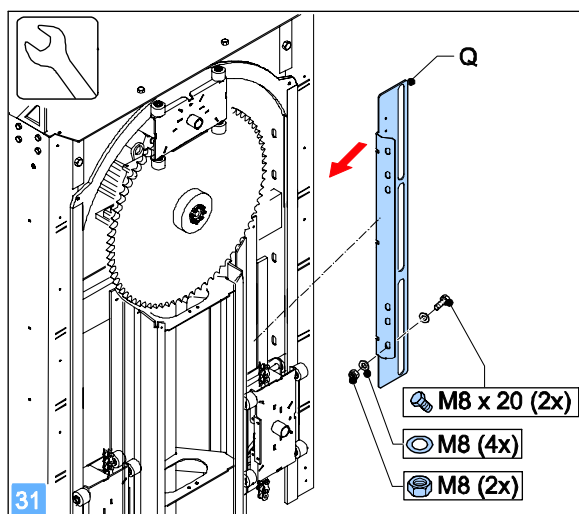
* Bolts finger tight, tighten at a later stage



* Bolts finger tight, tighten at a later stage

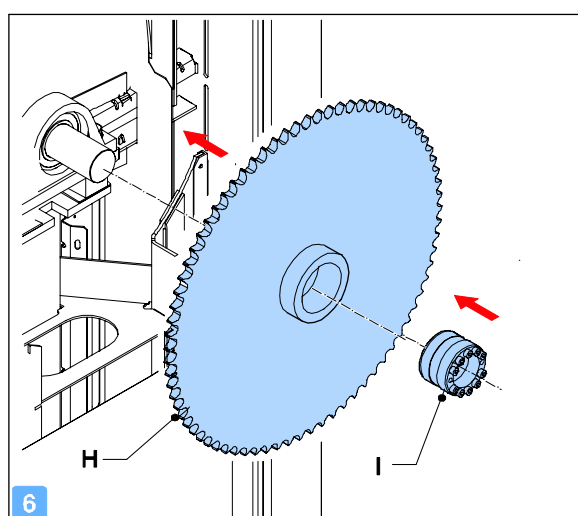
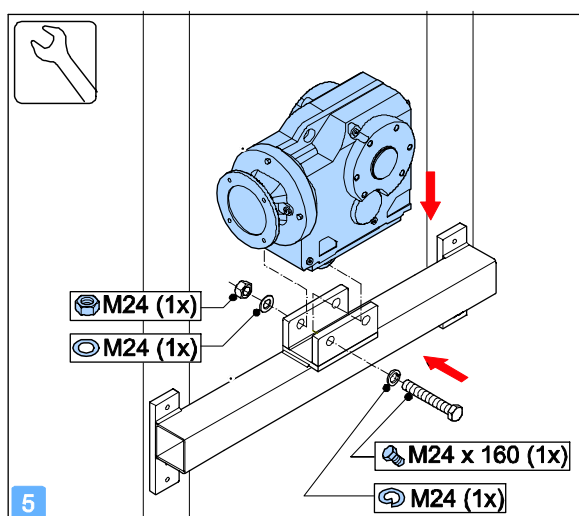
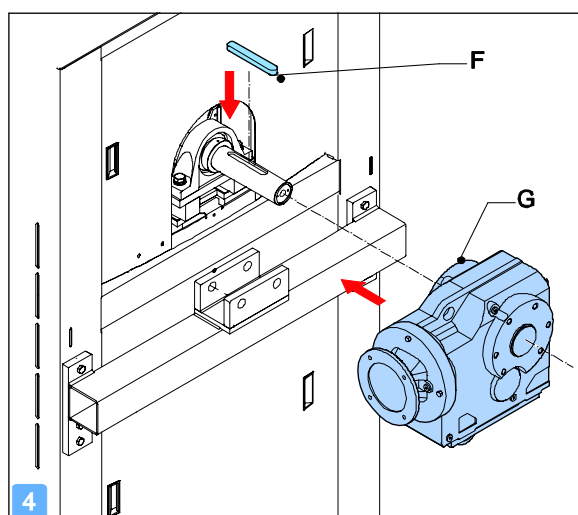
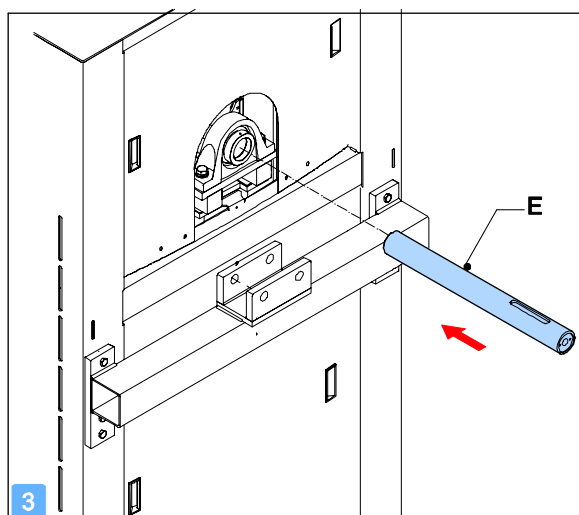
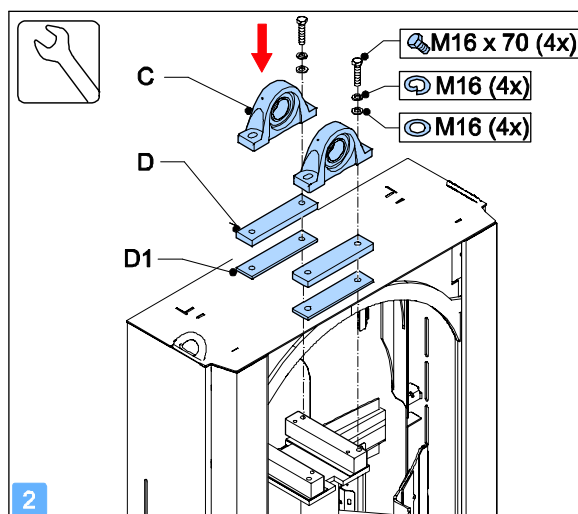
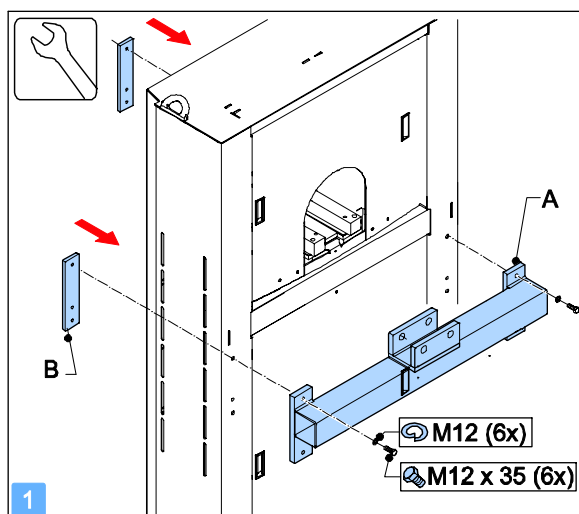


Drive section assembly 6/6

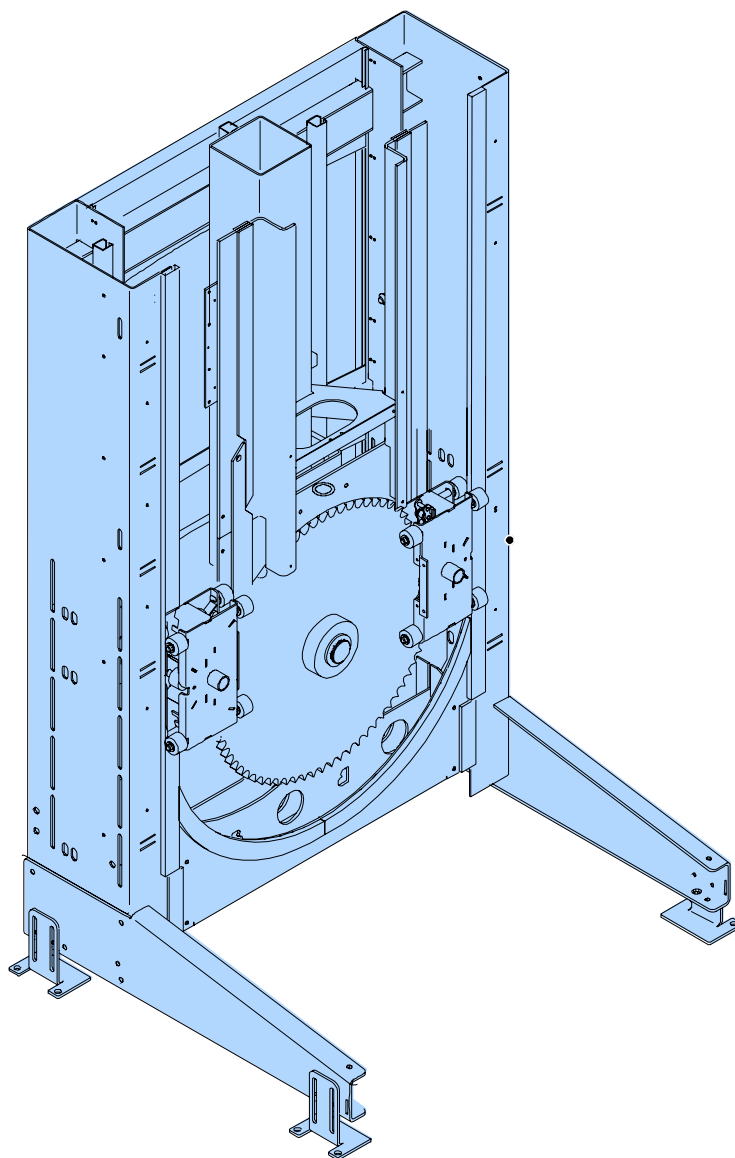


Fit the mountings and panels at a later stage.

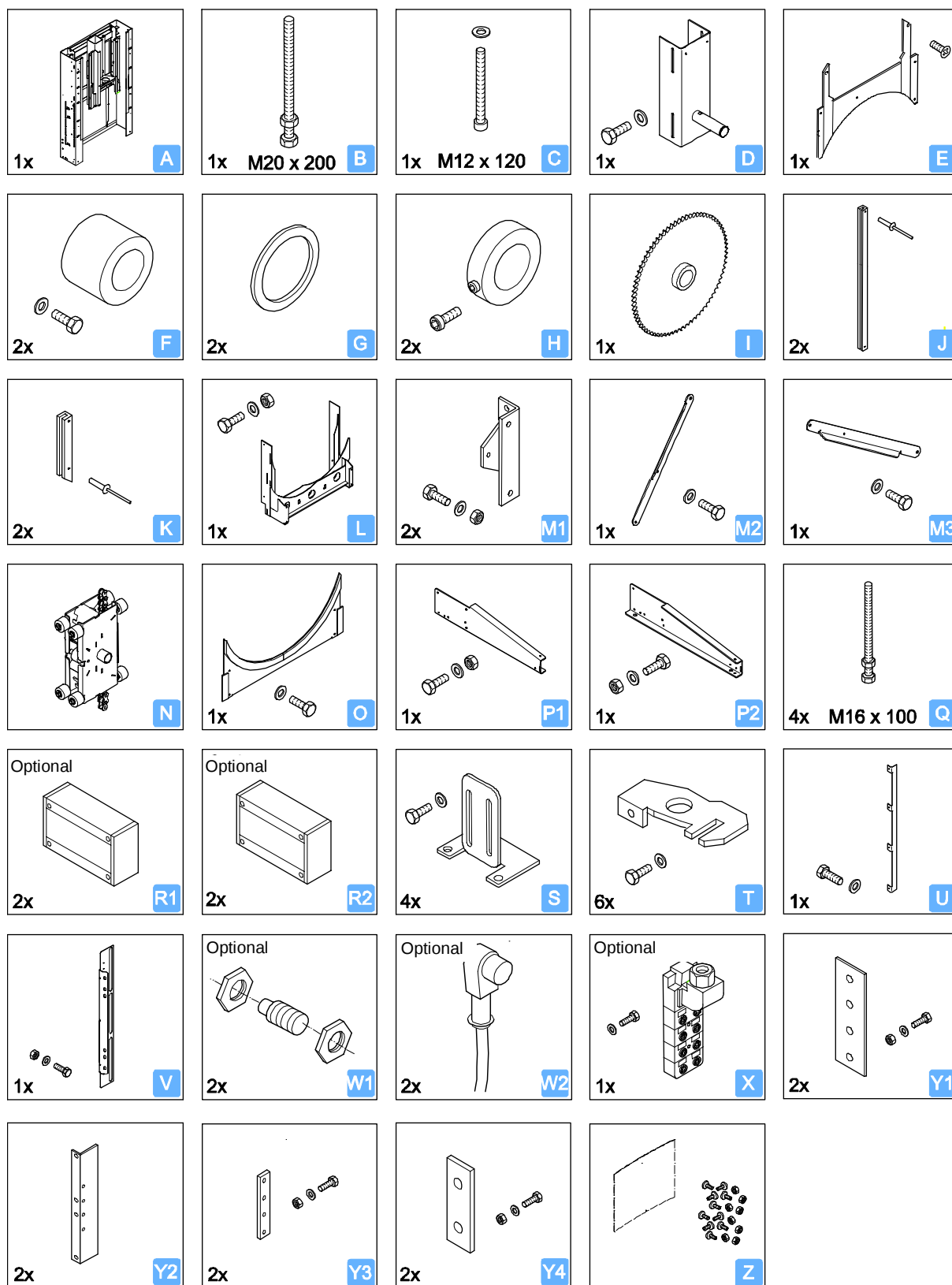
5.1.4 Reductor assembly (optional)



5.2 Tensioning section



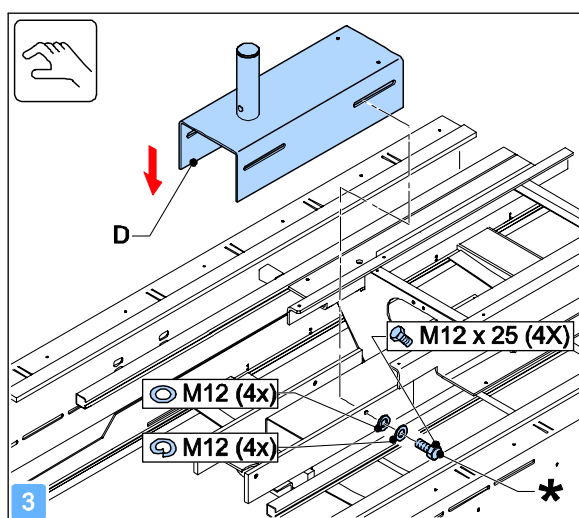
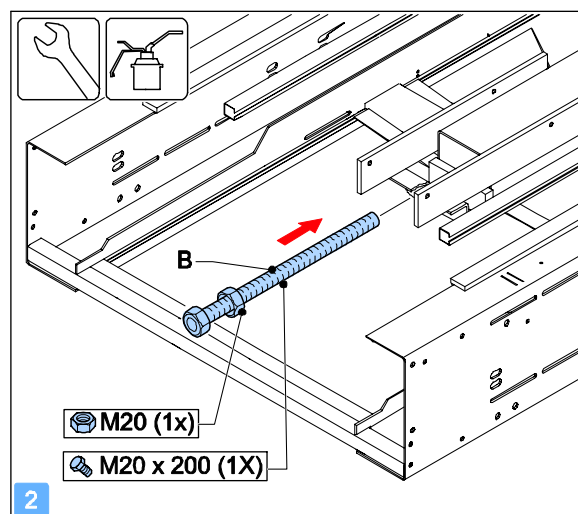
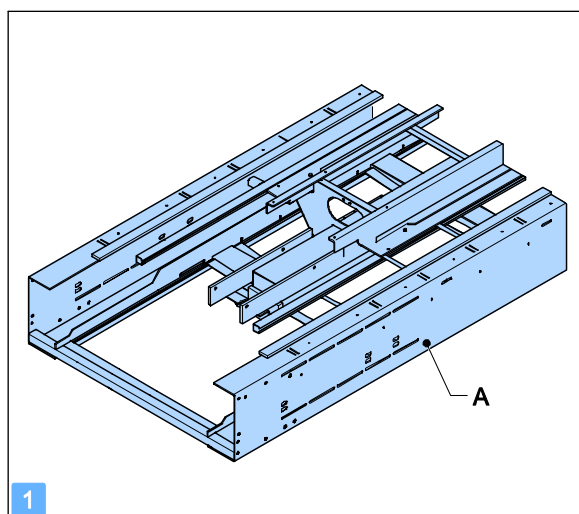
5.2.1 Lower section parts



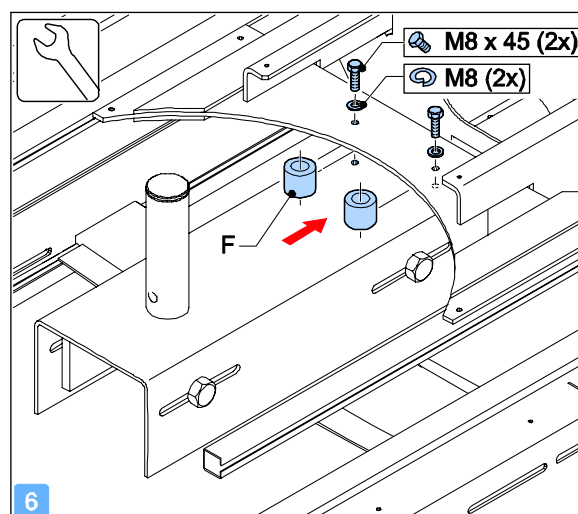
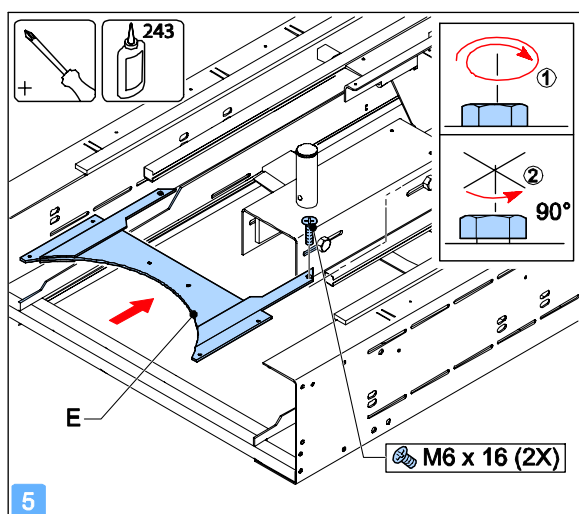
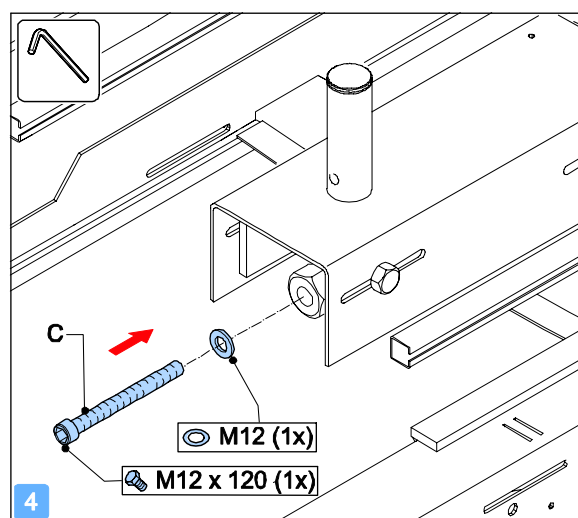
Fit the mountings and panels at a later stage.

 For the part numbers, see Section 6.3

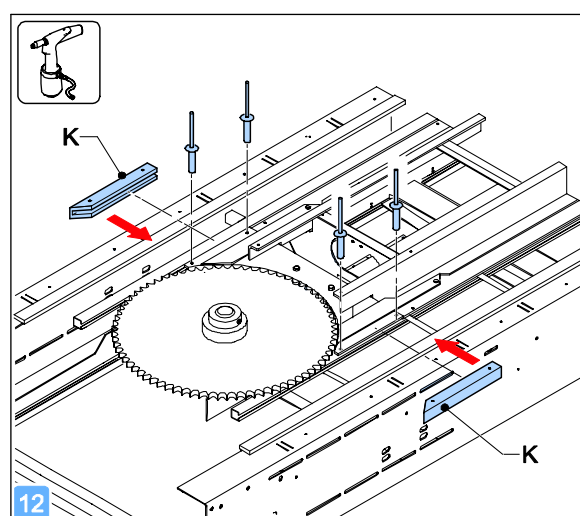
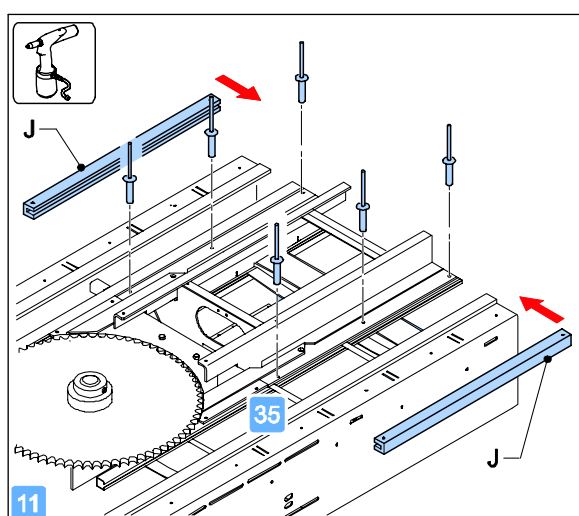
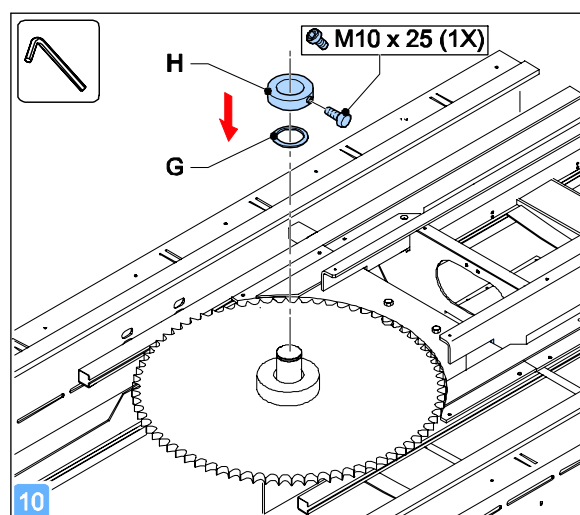
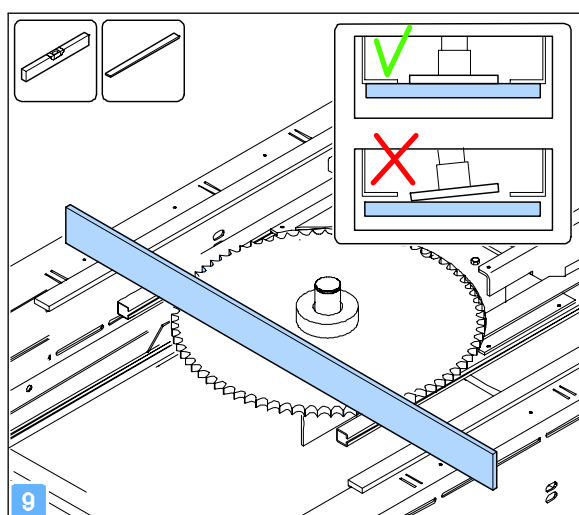
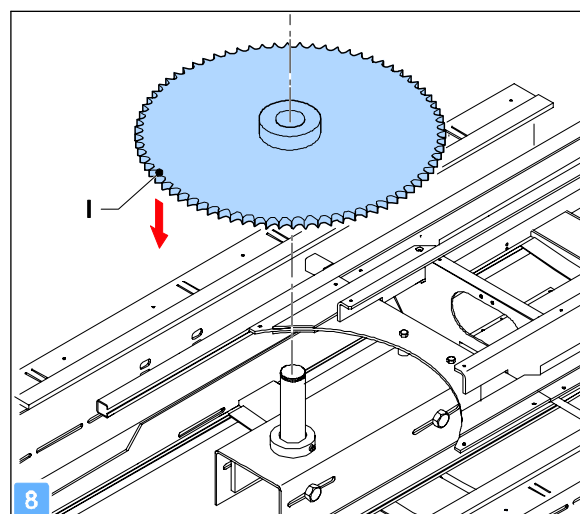
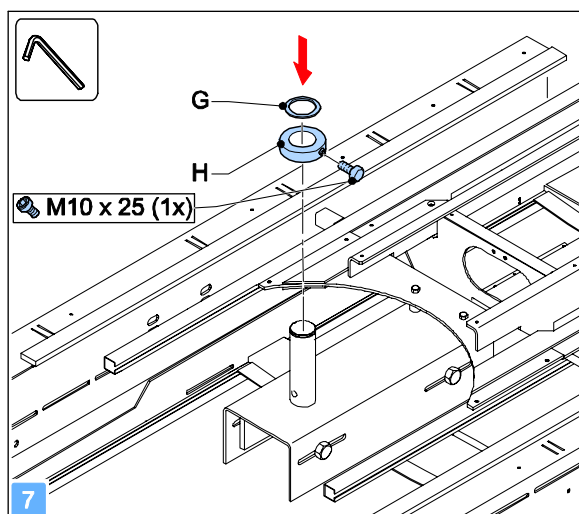
5.2.2 Tensioning section assembly 1/6



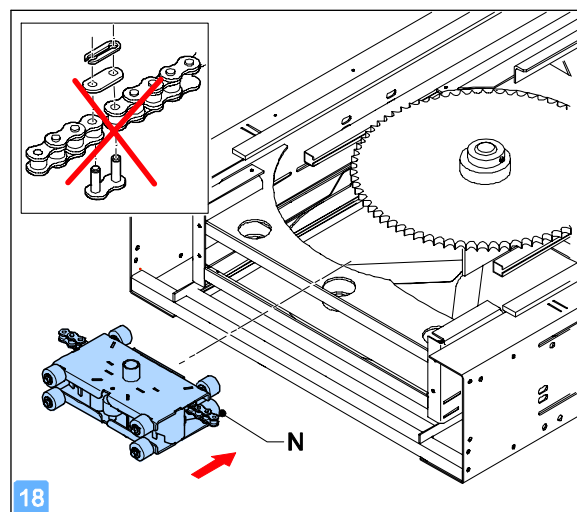
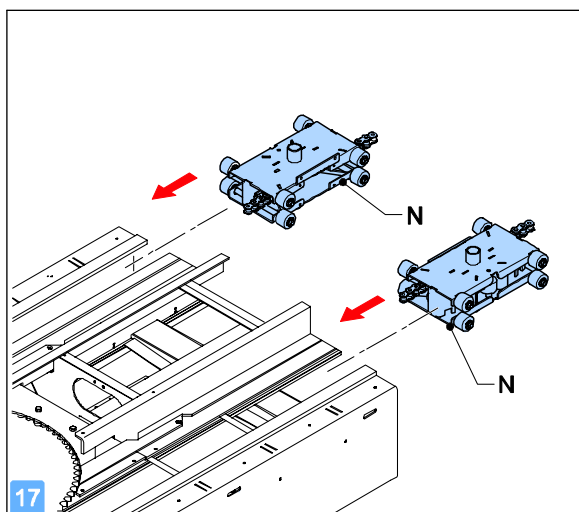
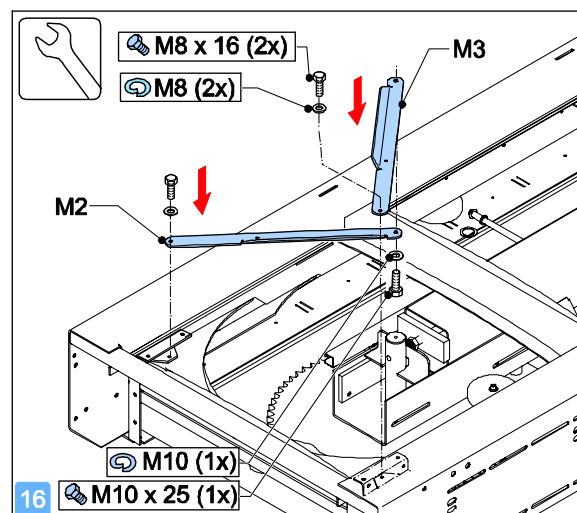
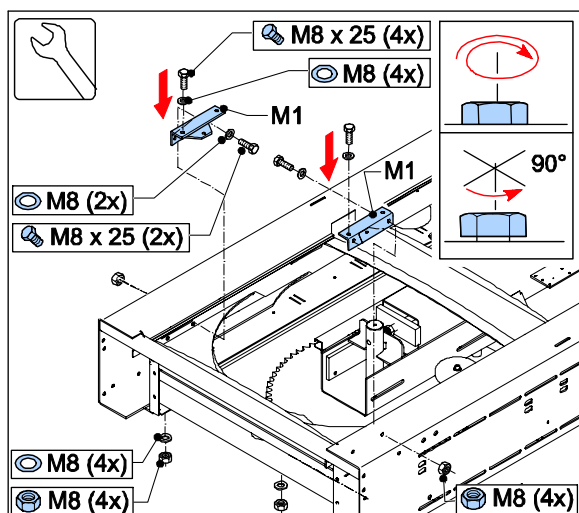
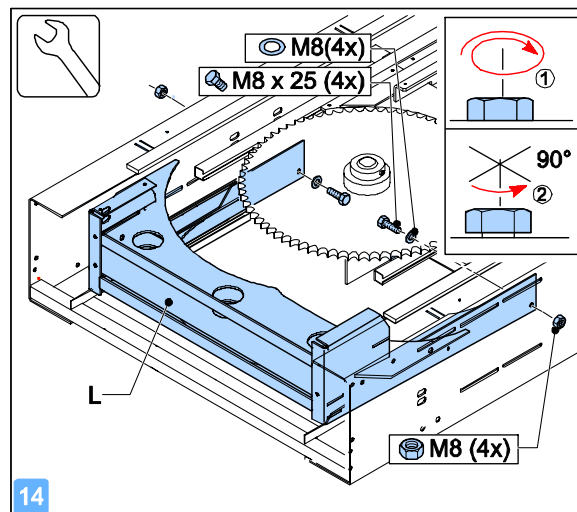
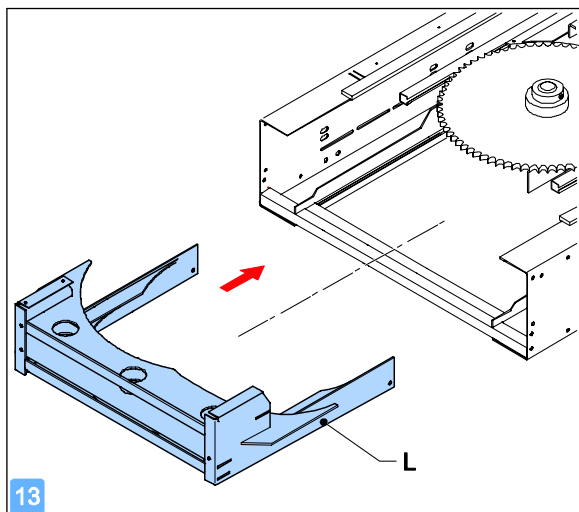
* Bolts finger tight, tighten at a later stage



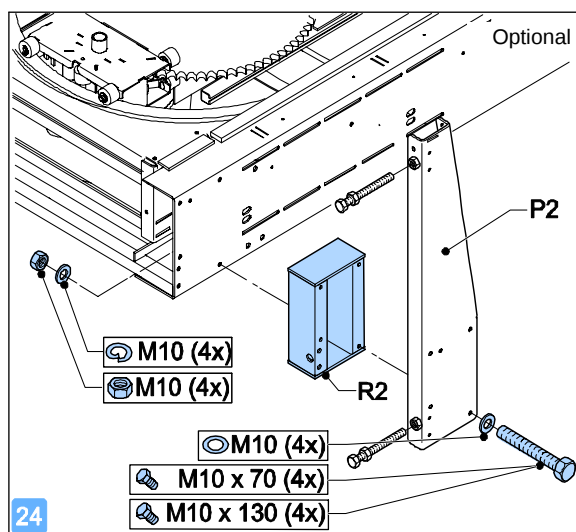
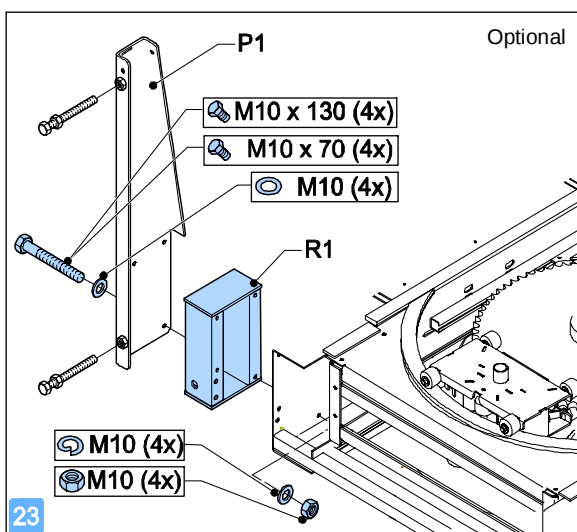
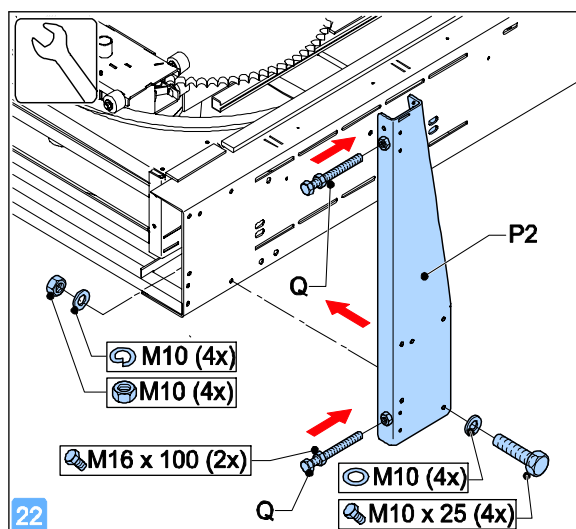
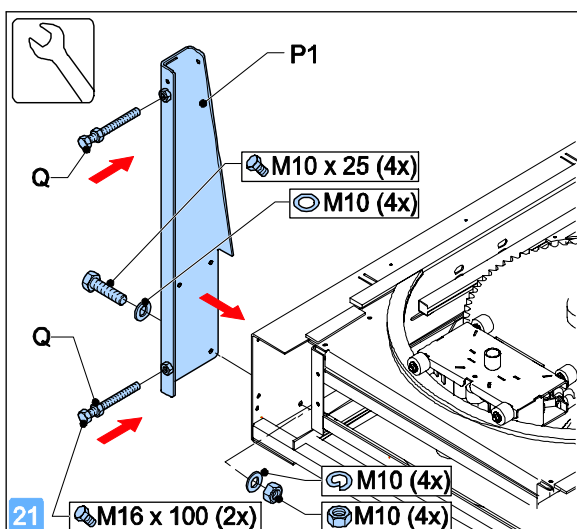
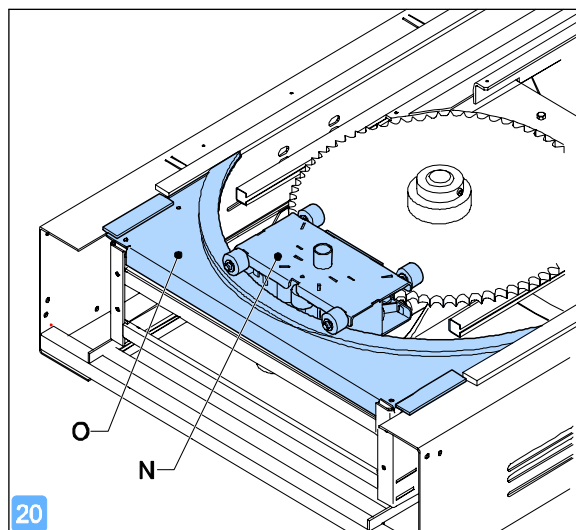
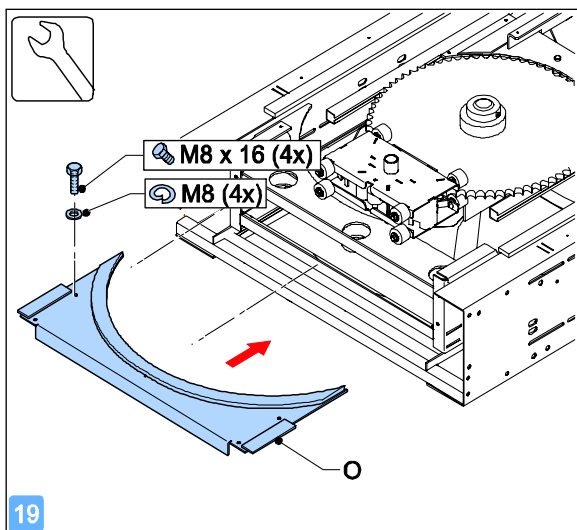
Tensioning section assembly 2/6



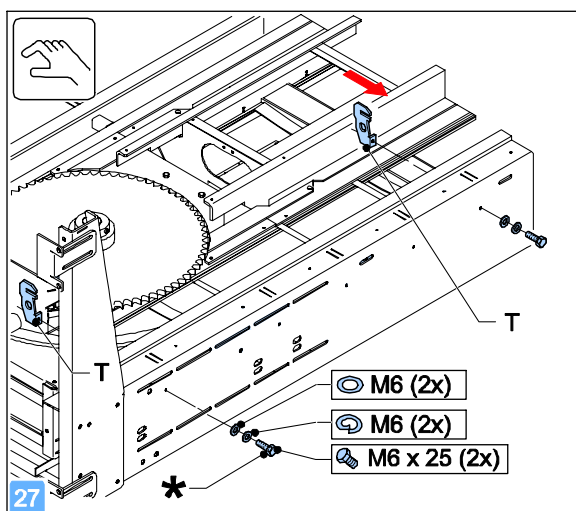
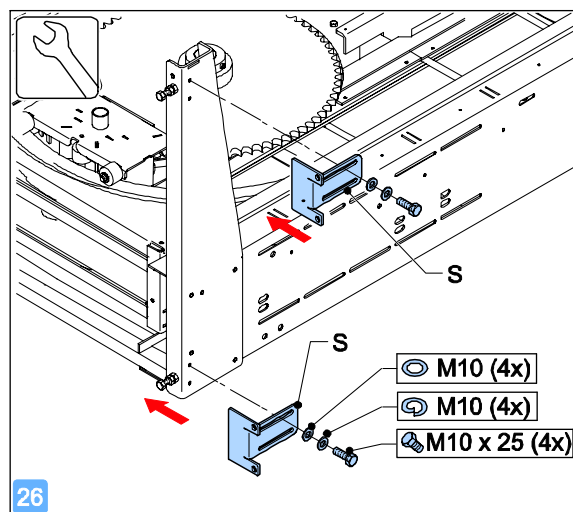
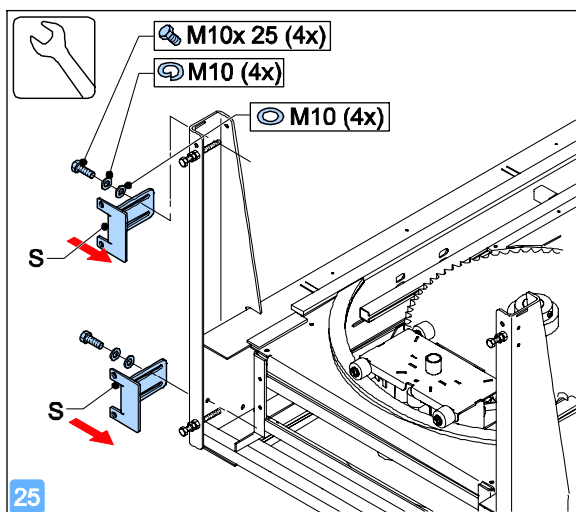
Tensioning section assembly 3/6



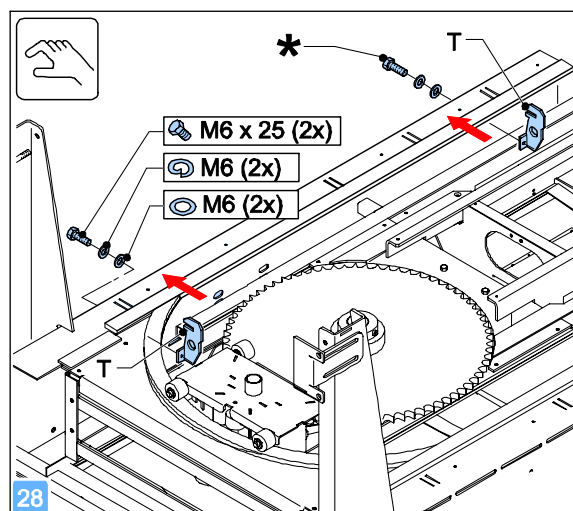
Tensioning section assembly 4/6



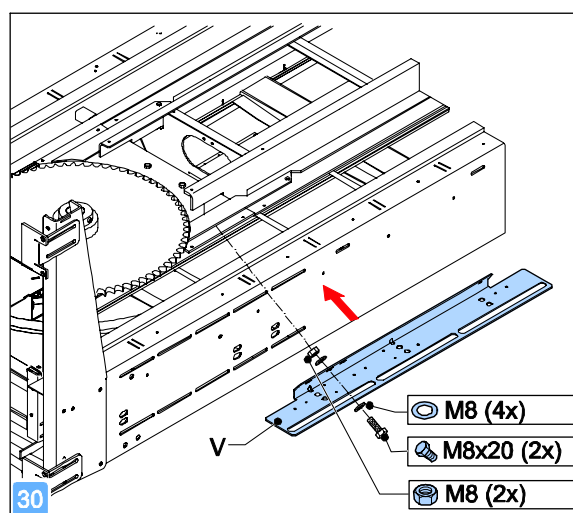
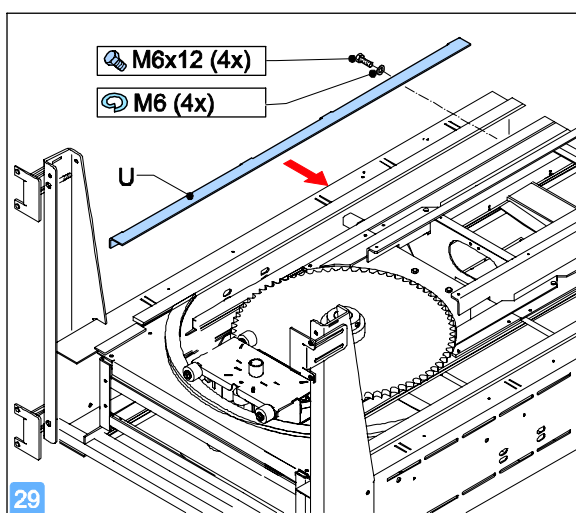
Tensioning section assembly 5/6



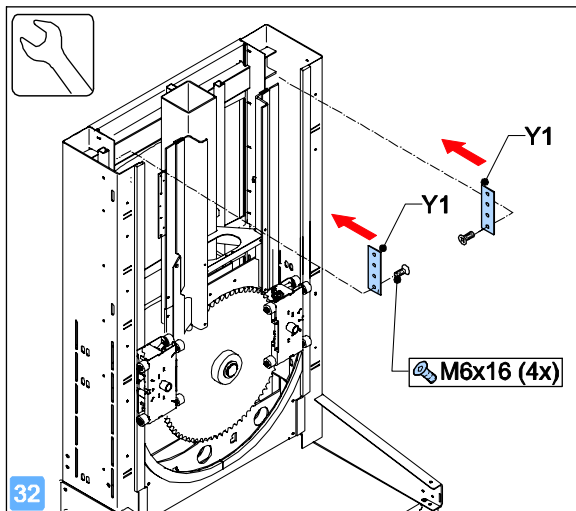
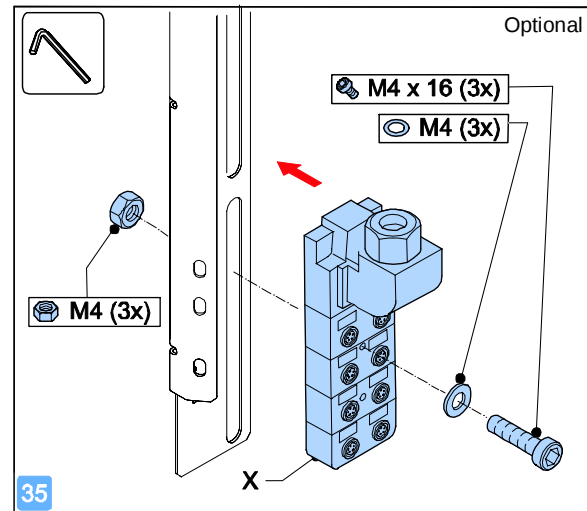
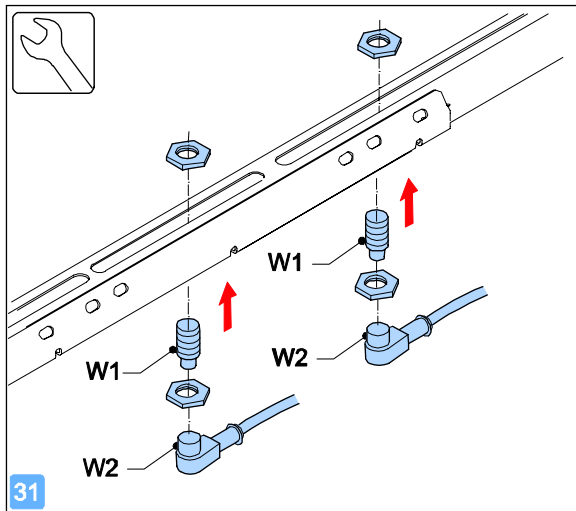
* Bolts finger tight, tighten at a later stage



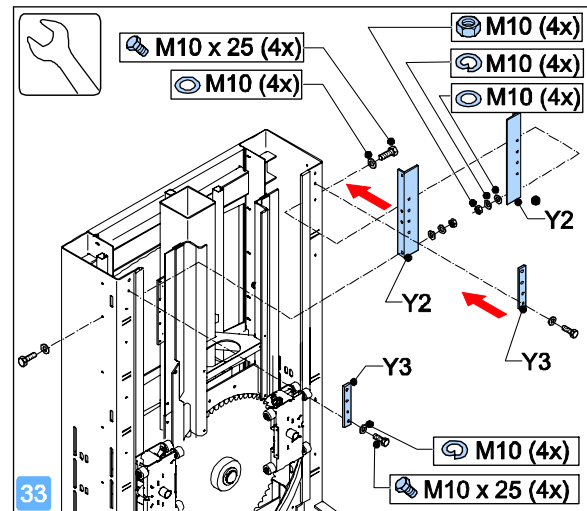
* Bolts finger tight, tighten at a later stage



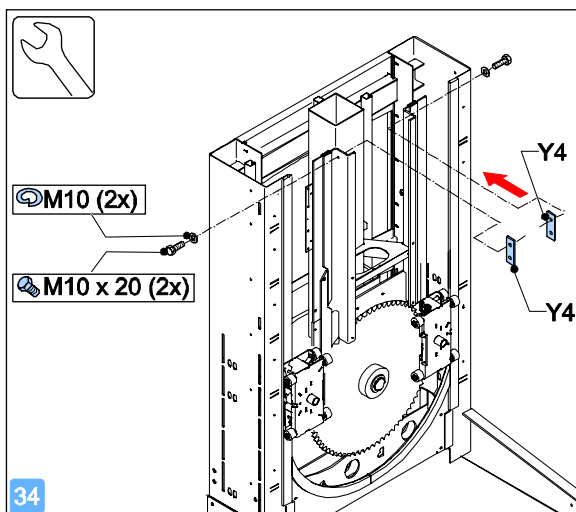
Tensioning section assembly 6/6



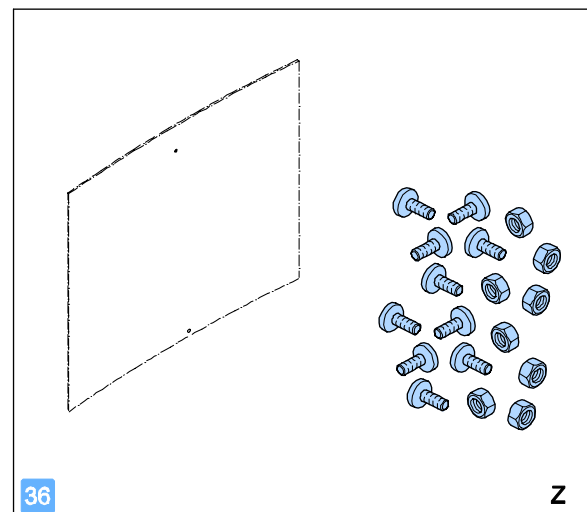
Fit other mountings at a later stage



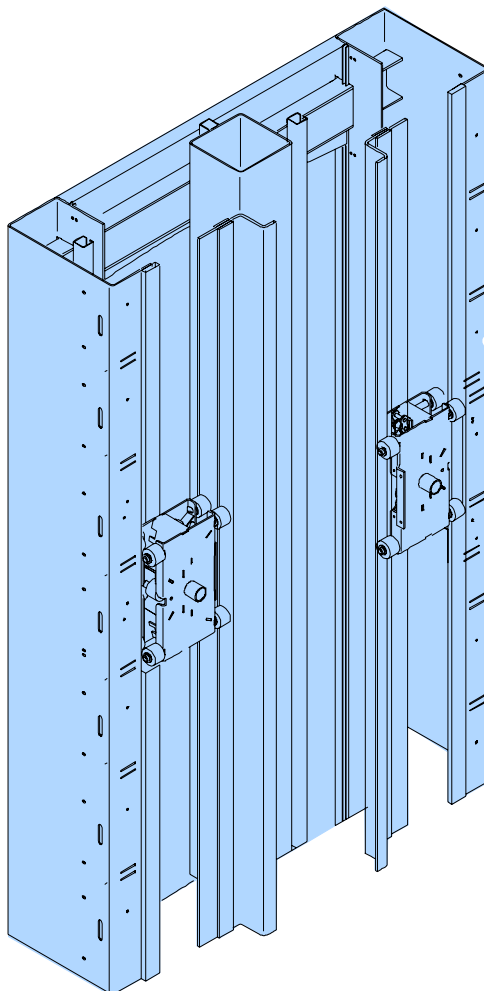
Fit other mountings at a later stage



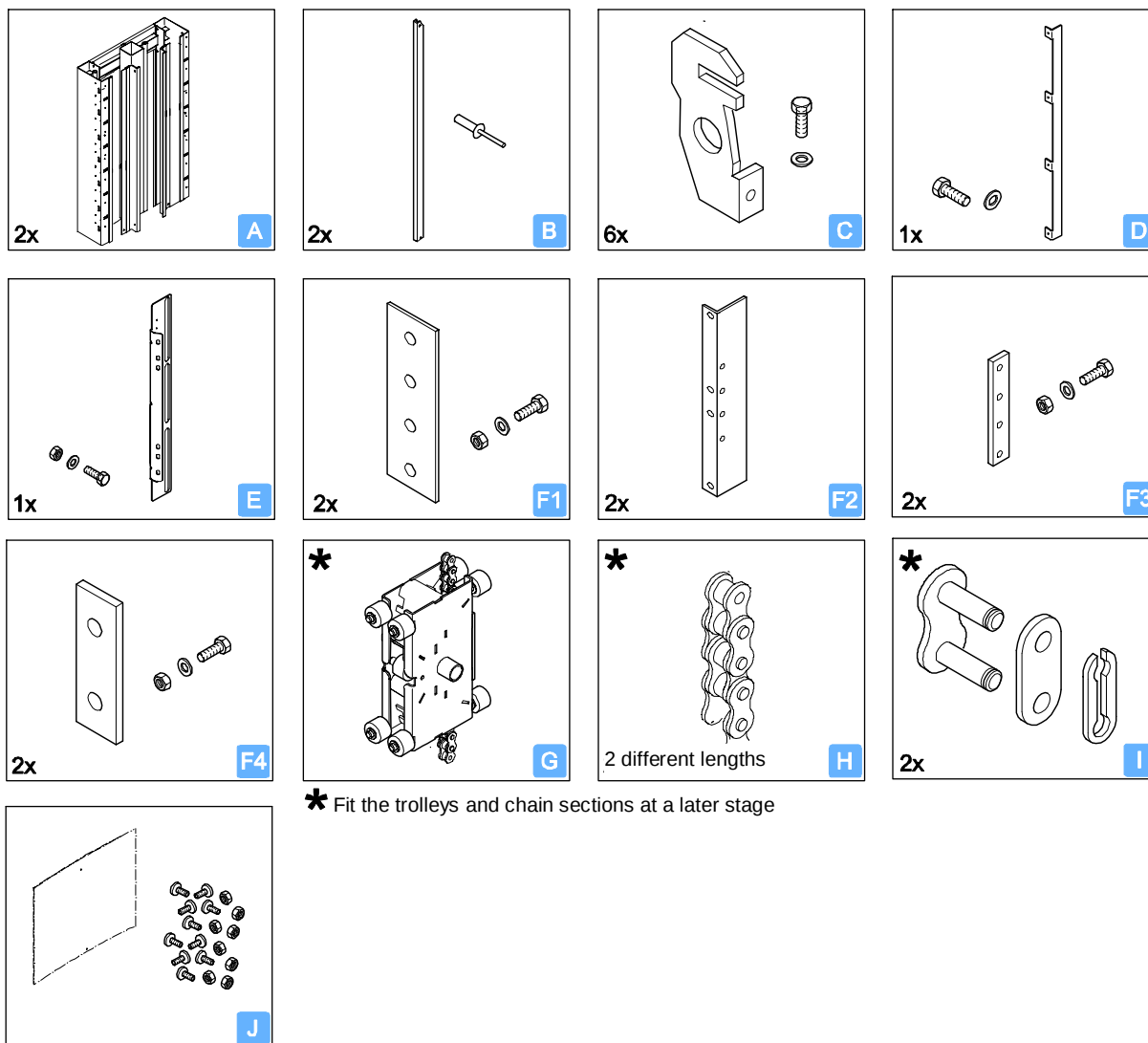
Fit other mountings at a later stage



5.3 Centre section



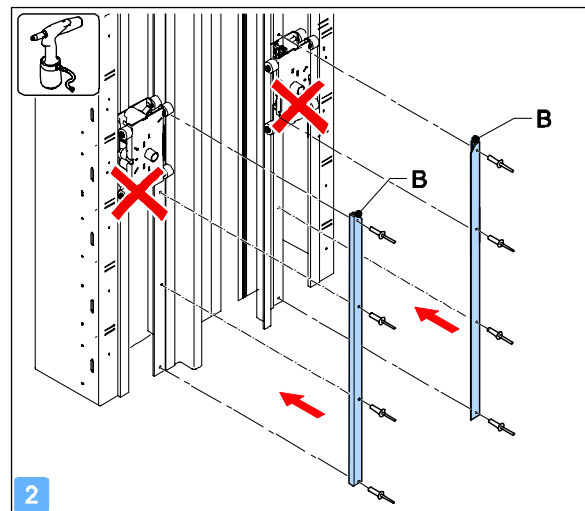
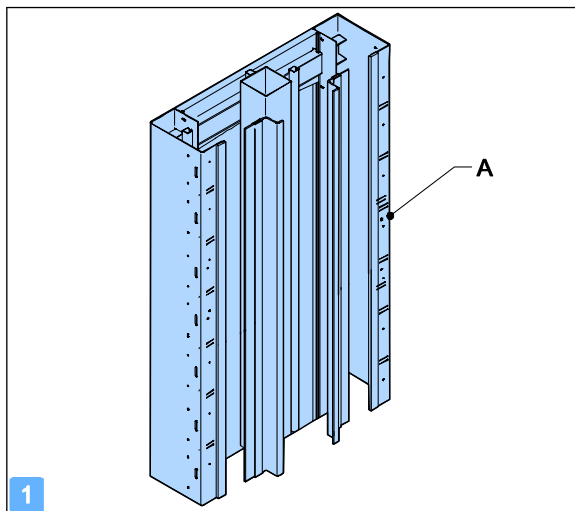
5.3.1 Centre section parts



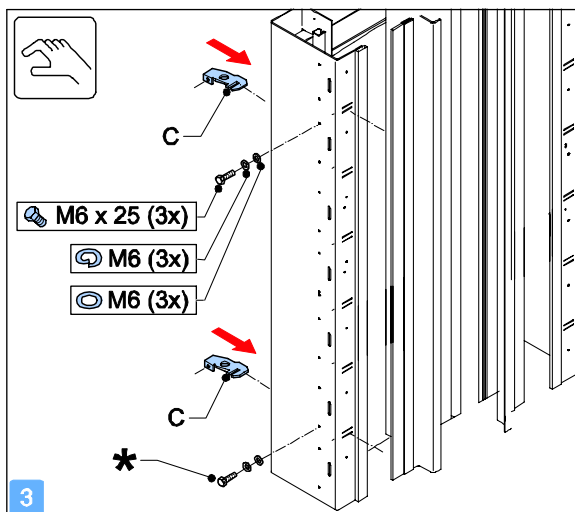
* Fit the trolleys and chain sections at a later stage

Fit the mountings and panels at a later stage

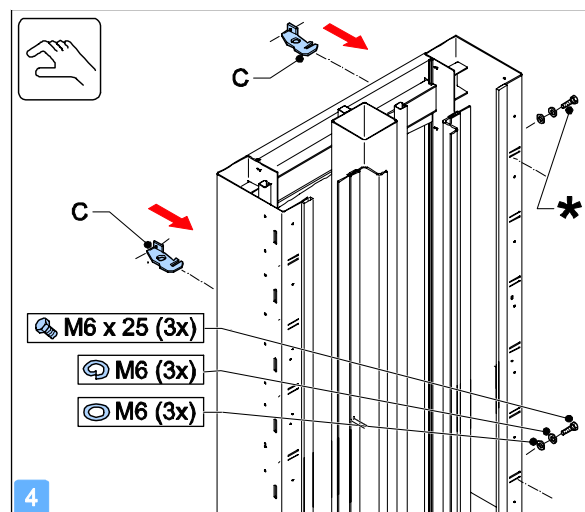
5.3.2 Centre section assembly 1/2



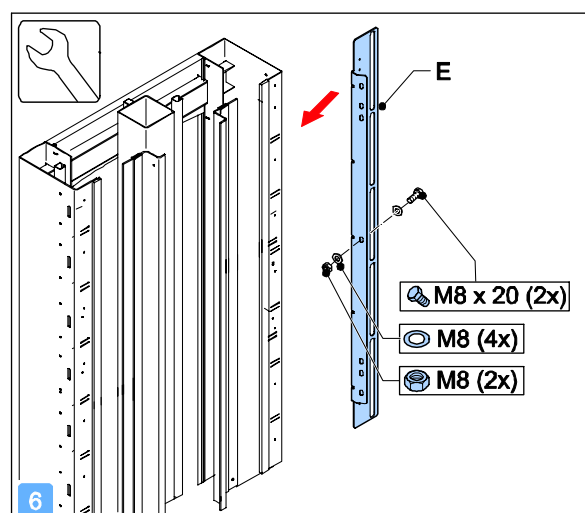
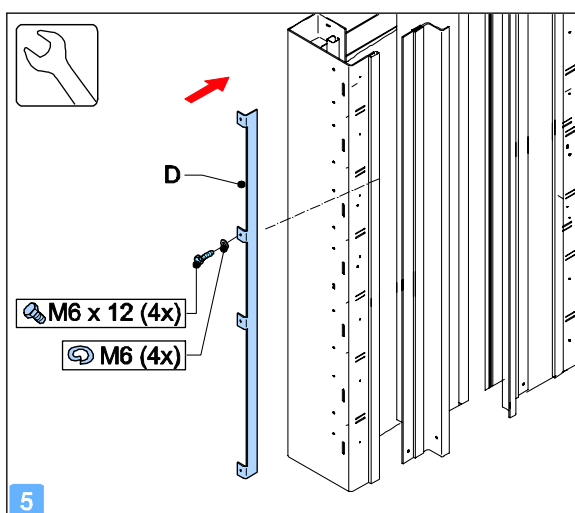
Do not fit trolleys until Section 5.4.1.



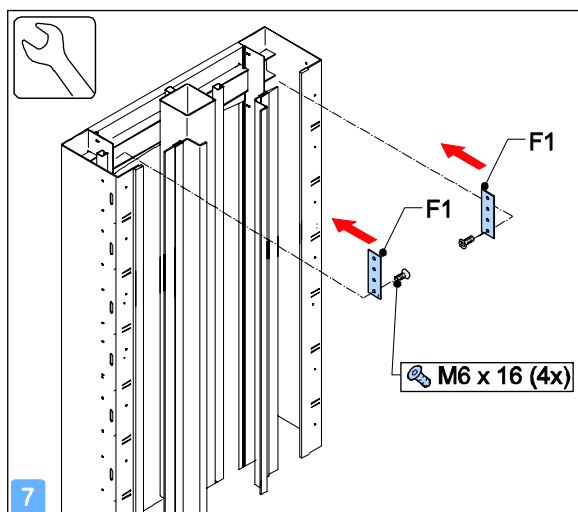
* Bolts finger tight, tighten at a later stage.



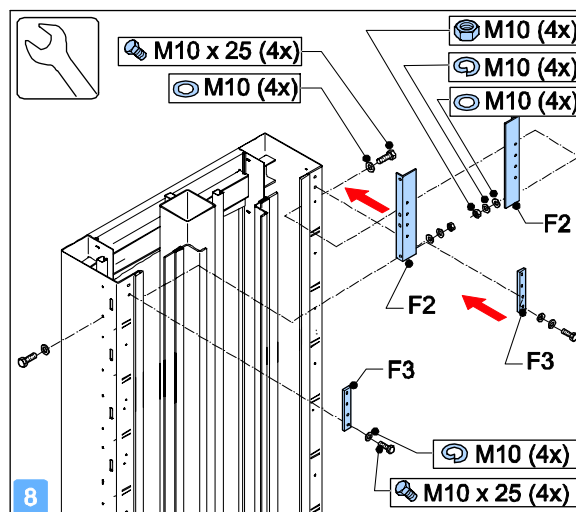
* Bolts finger tight, tighten at a later stage.



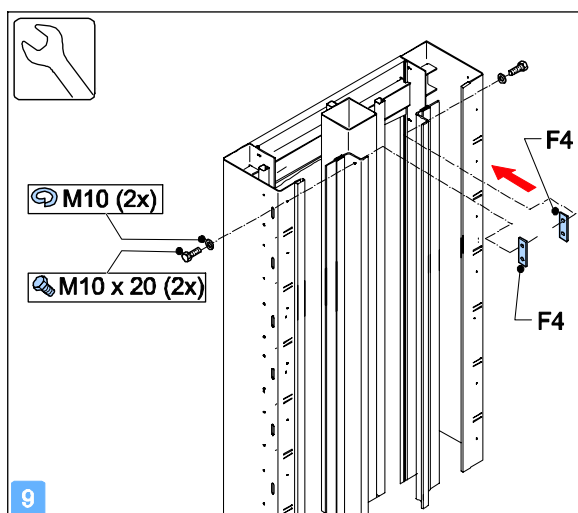
Centre section assembly 2/2



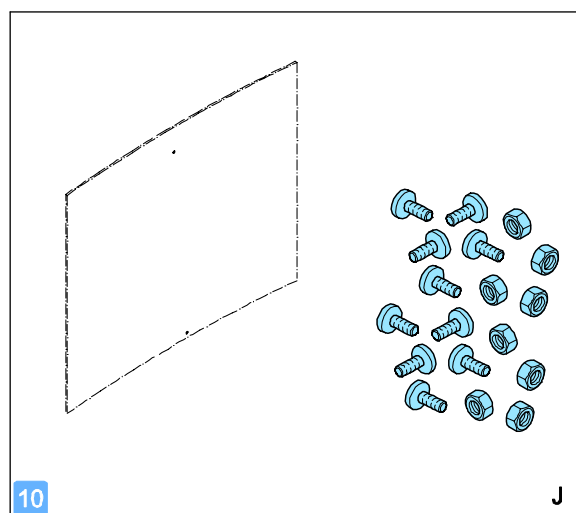
Fit other mountings at a later stage.



Fit other mountings at a later stage.

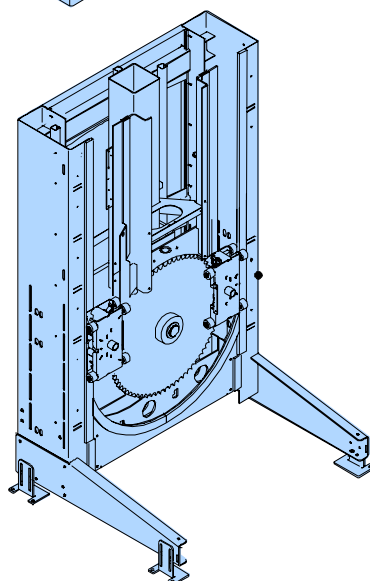
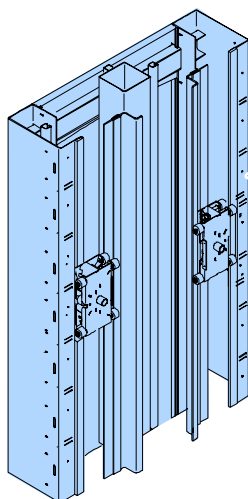
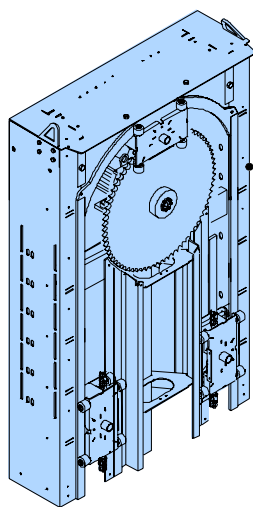


Fit other mountings at a later stage.

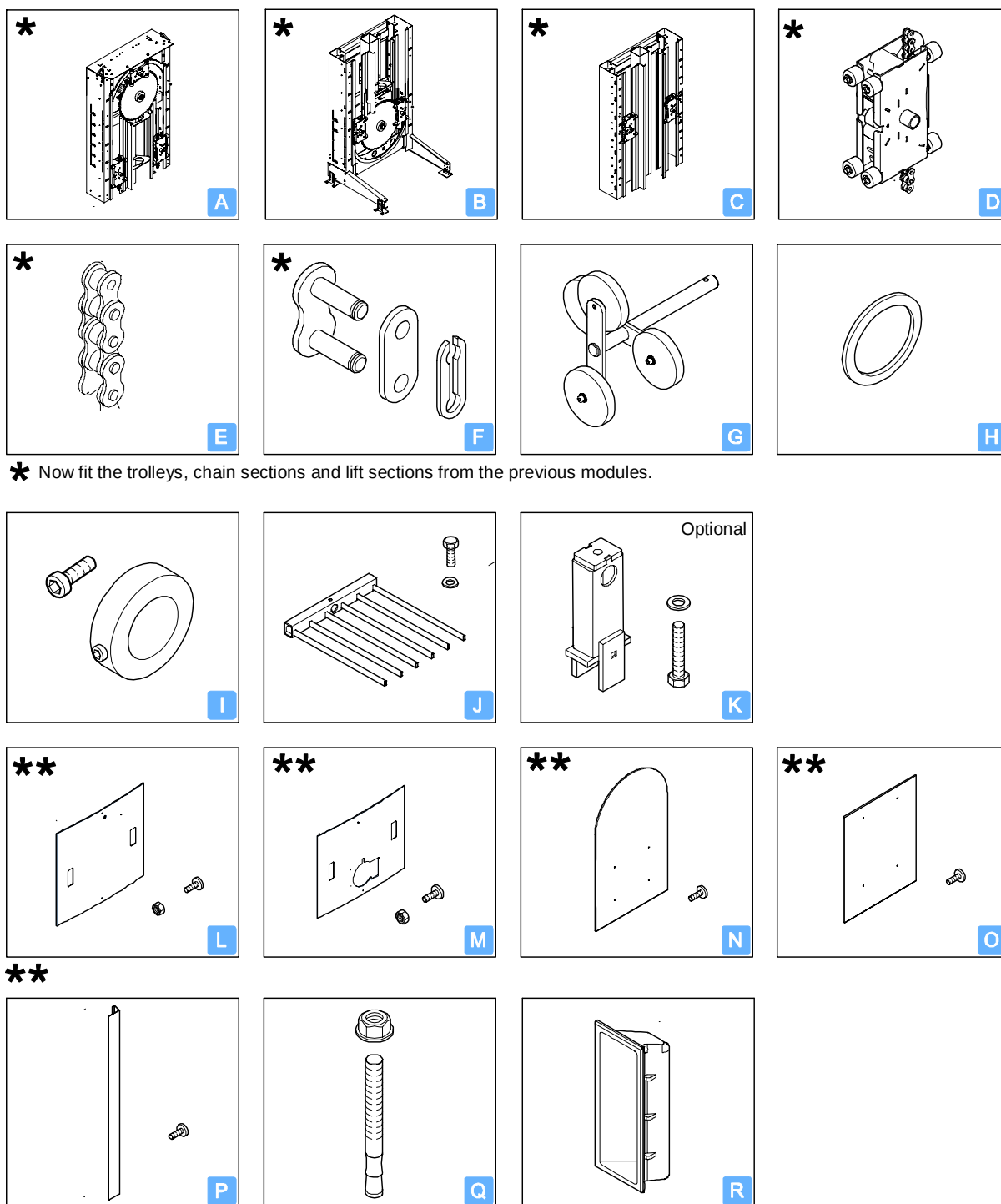


Fit the mountings and panels at a later stage.

5.4 Subassembly sections

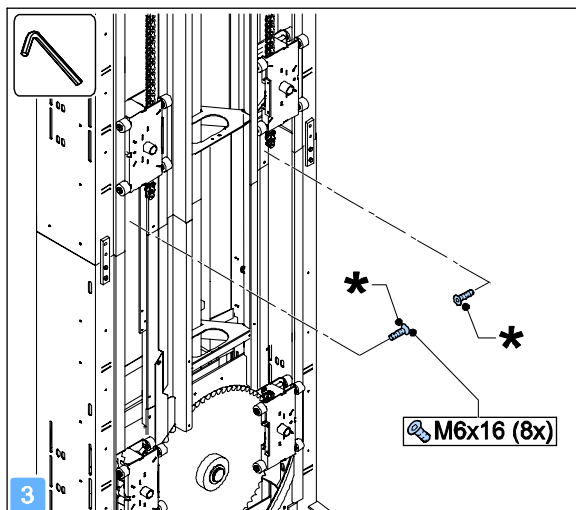
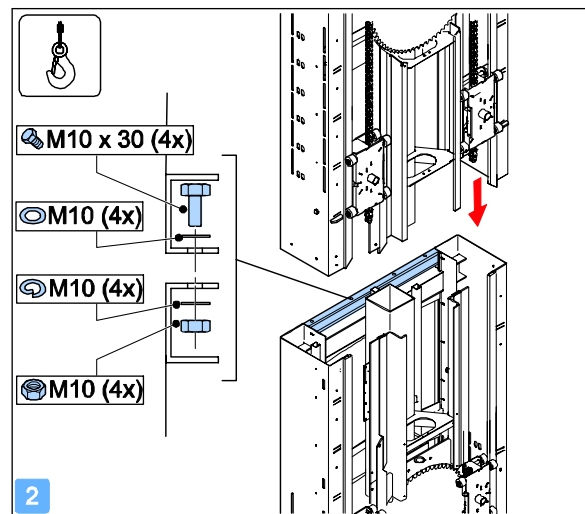
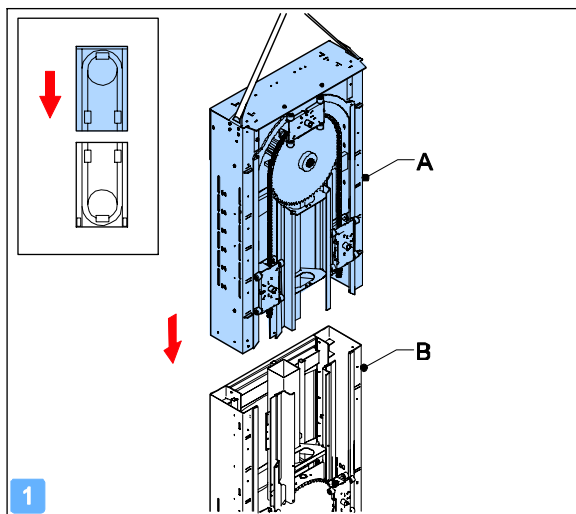


5.4.1 Centre section parts

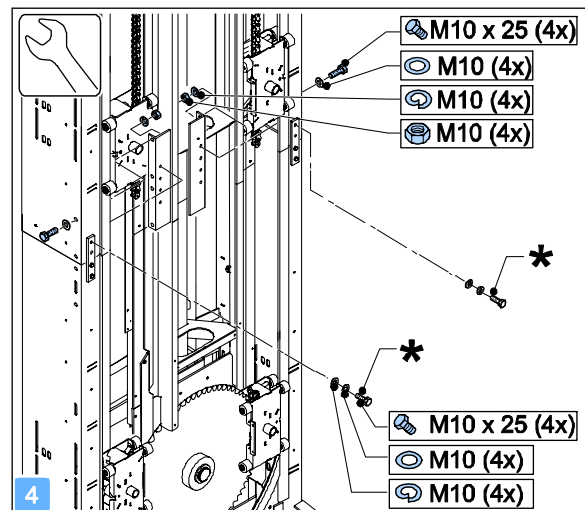


i For the part numbers, see Section 6.6

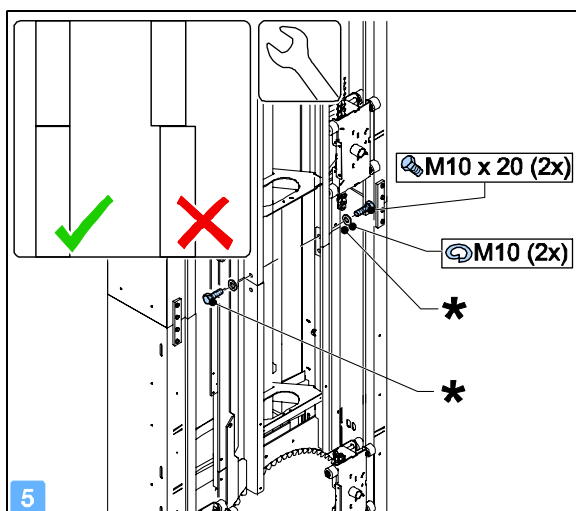
5.4.2 Drive and tensioning section assembly 1/ 2



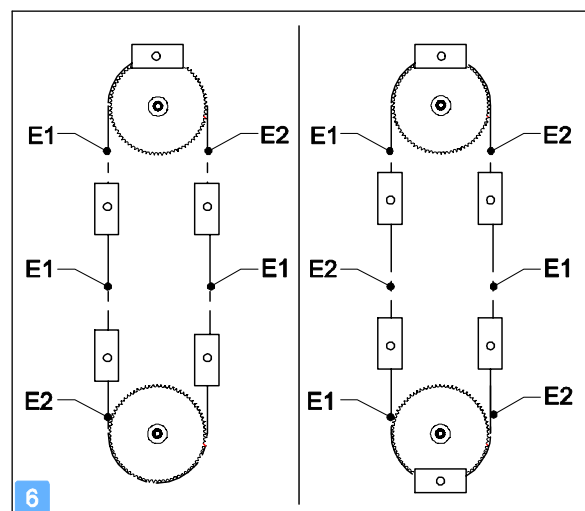
* The connectors have already been fitted.



* The connectors have already been fitted.

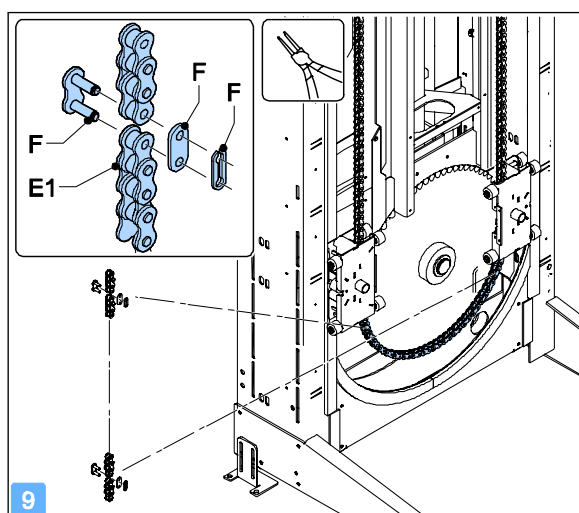
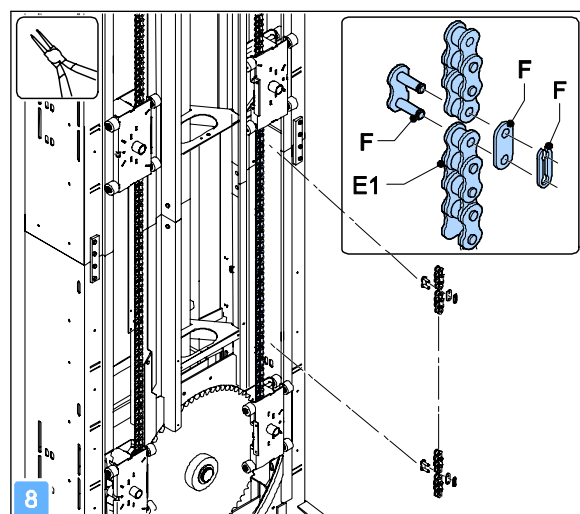
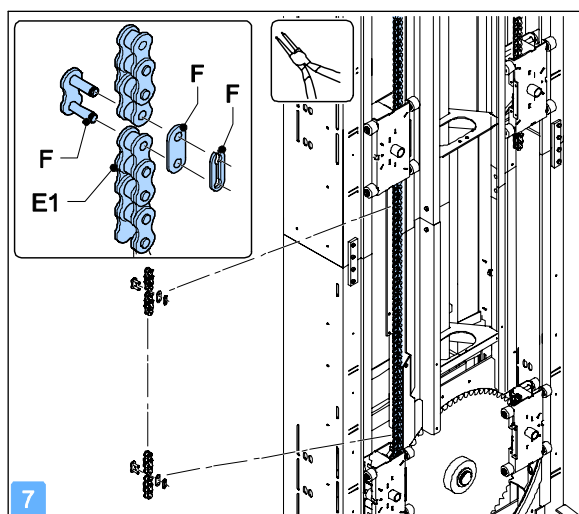


* The connectors have already been fitted.

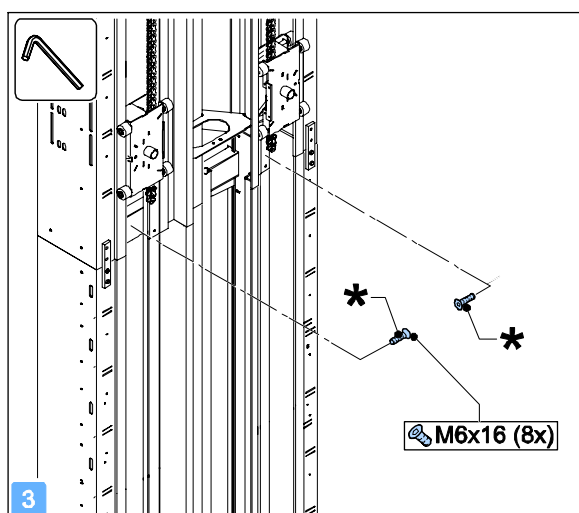
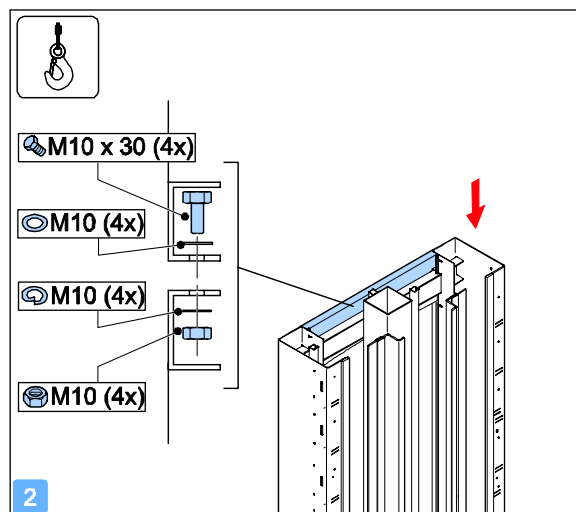
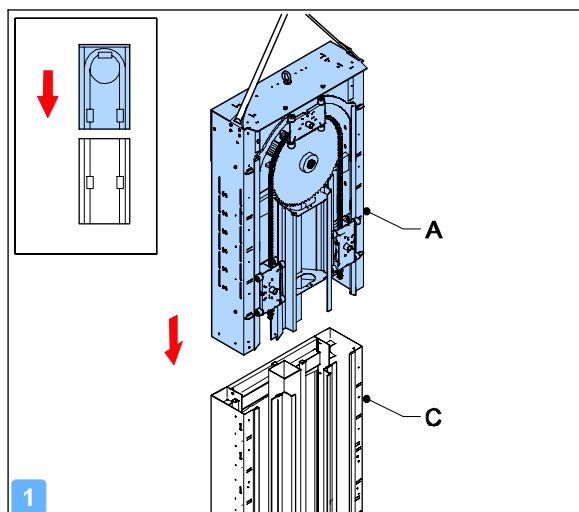


Fit chains E1 and E2 alternately.

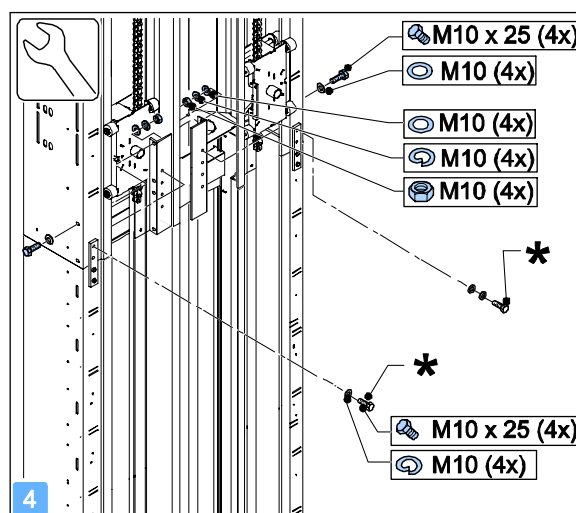
Drive and tensioning section assembly 2/2



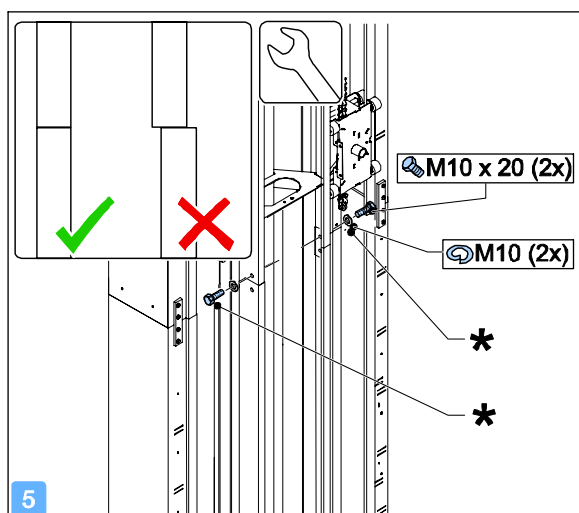
5.4.3 Drive, tensioning section and centre section assembly 1/3



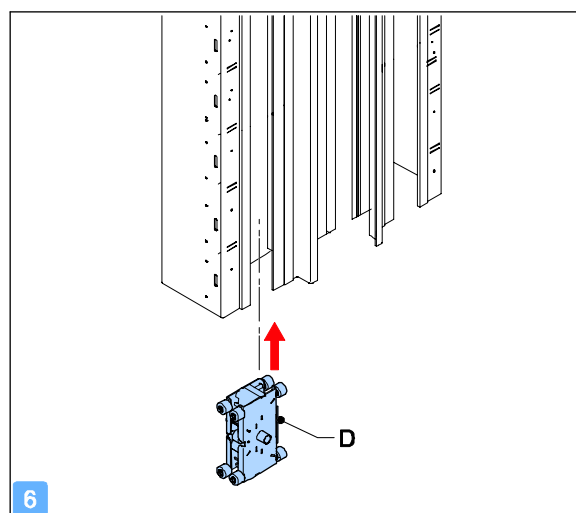
* The connectors have already been fitted.



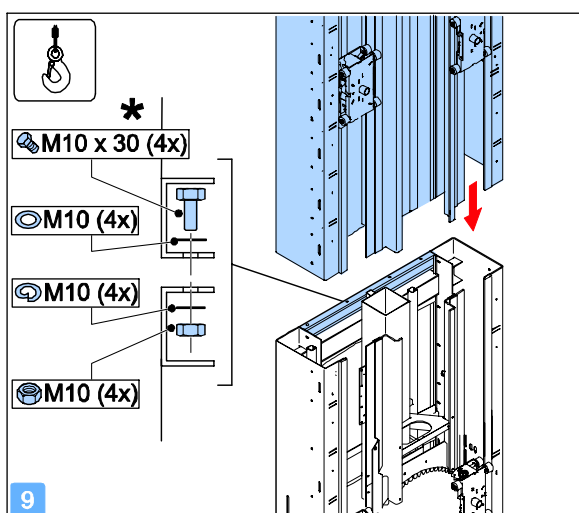
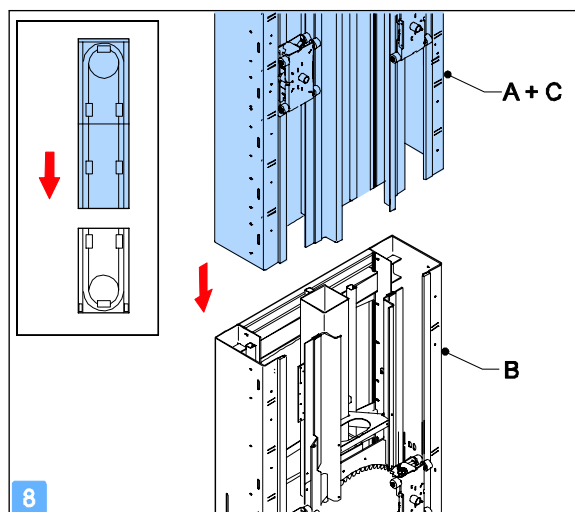
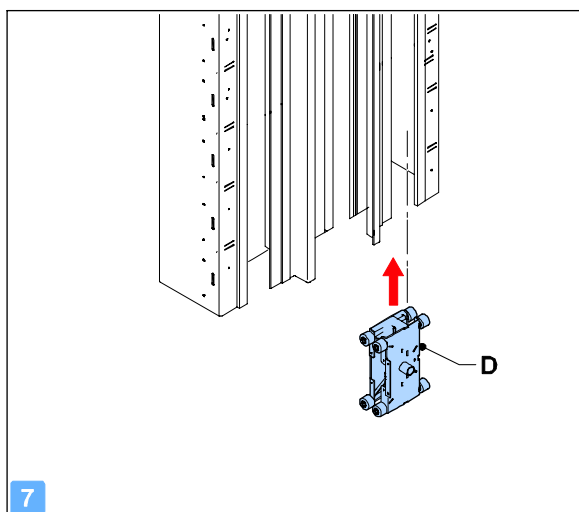
* The connectors have already been fitted.



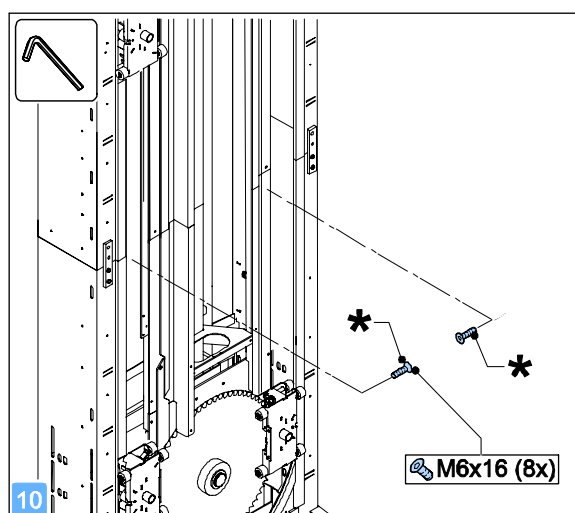
* The connectors have already been fitted.



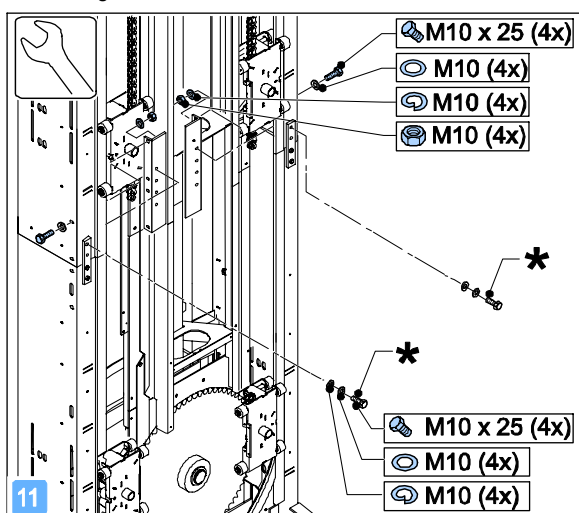
Drive, tensioning section and centre section assembly 2/3



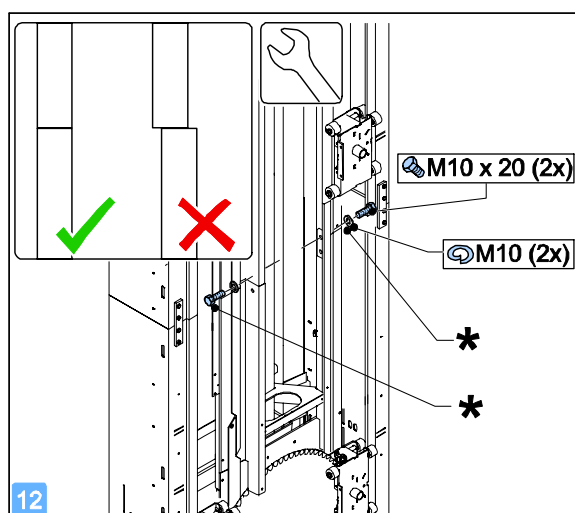
* Do not tighten yet; carry out steps 10, 11 and 12 first and then tighten.



* The connectors have already been fitted.

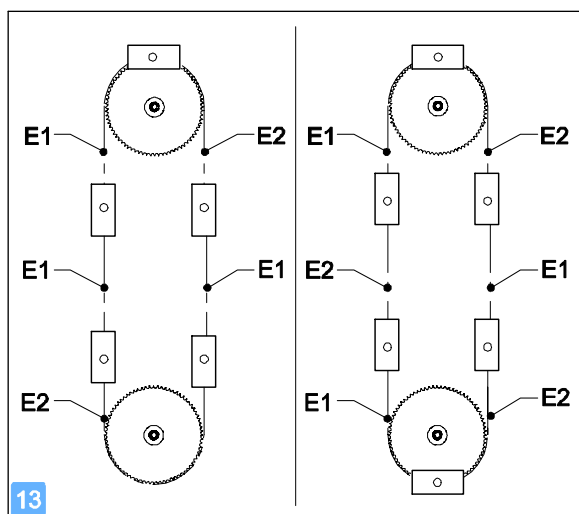


* The connectors have already been fitted.

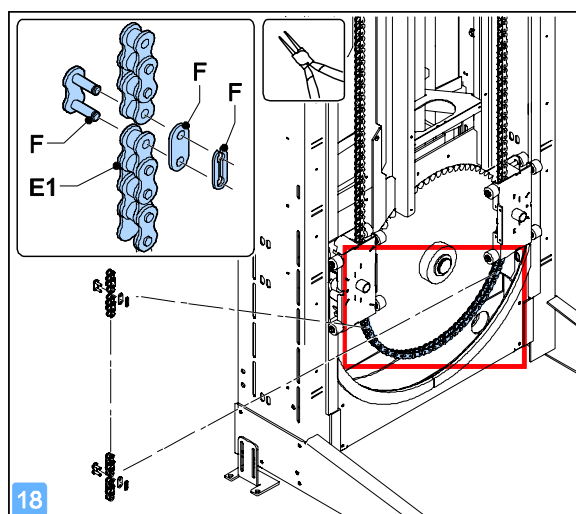
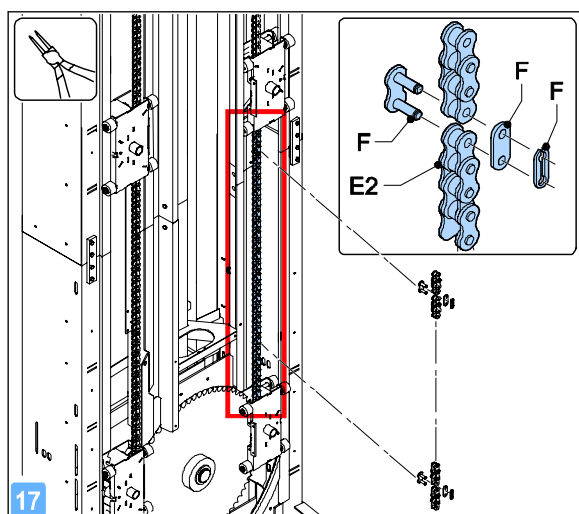
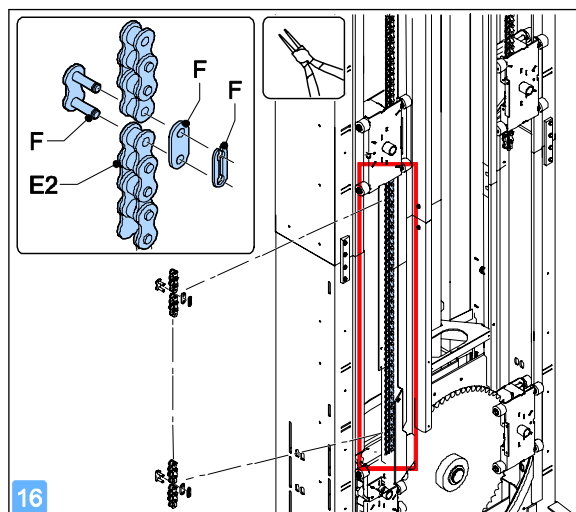
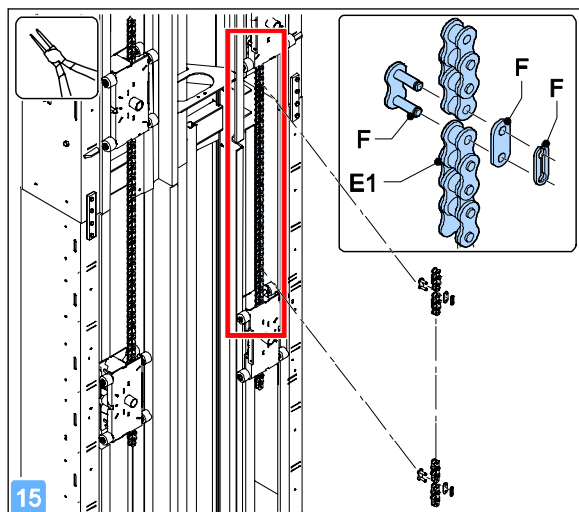
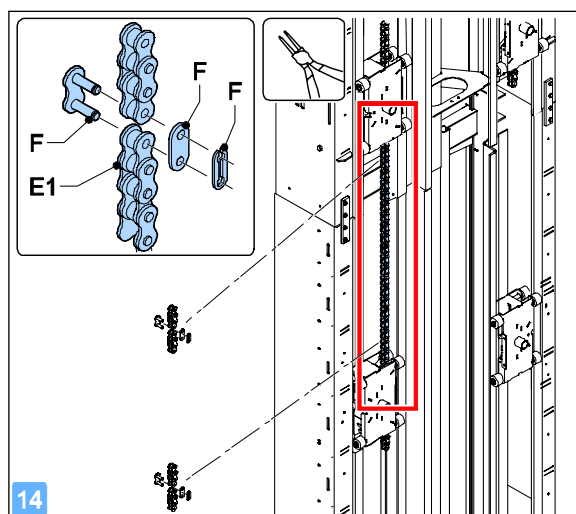


* The connectors have already been fitted.

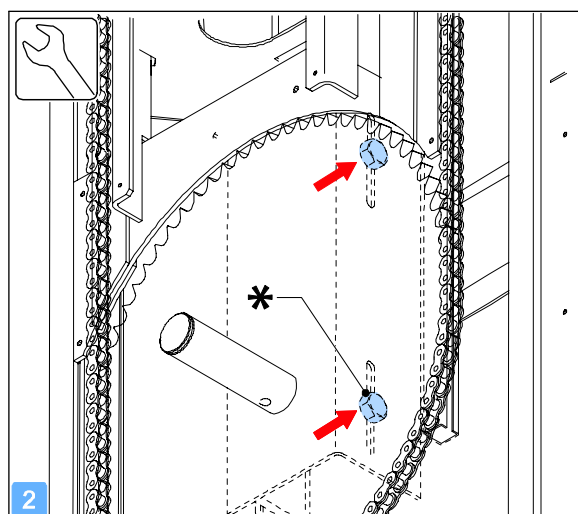
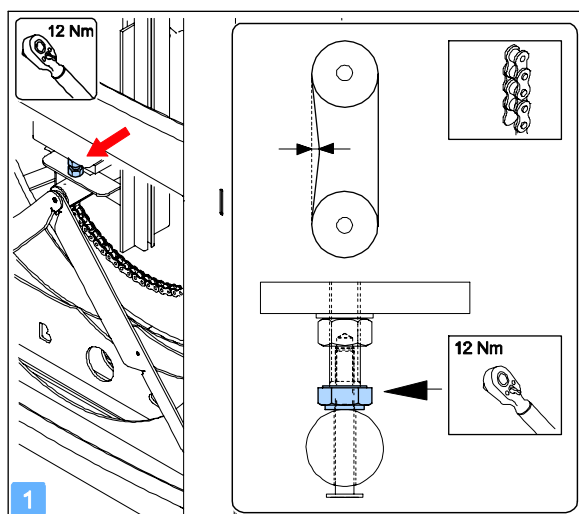
Drive, tensioning section and centre section assembly 3/3



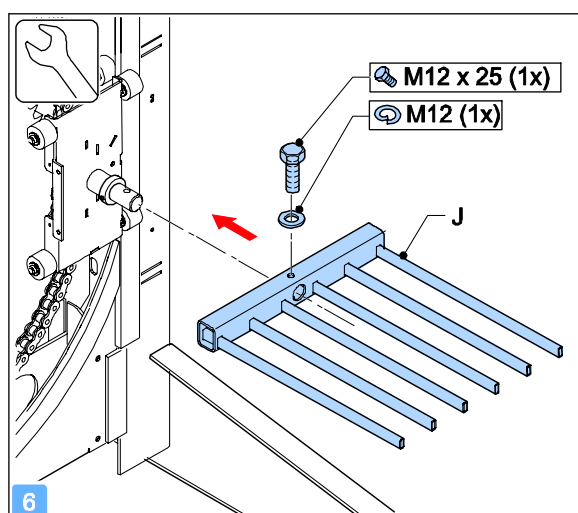
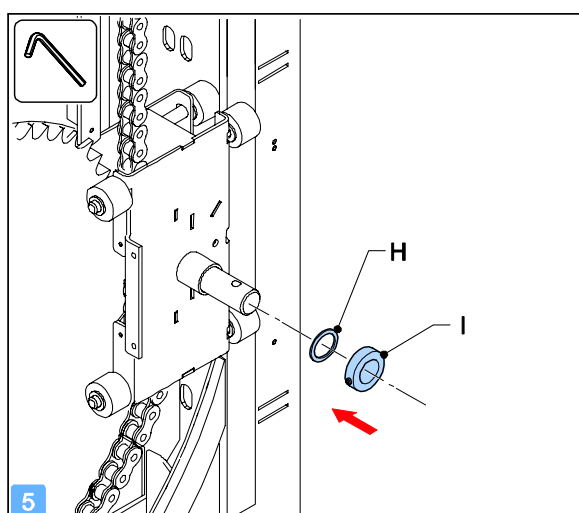
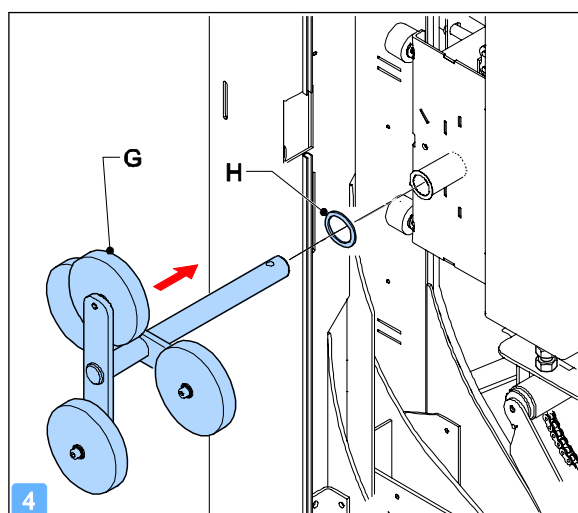
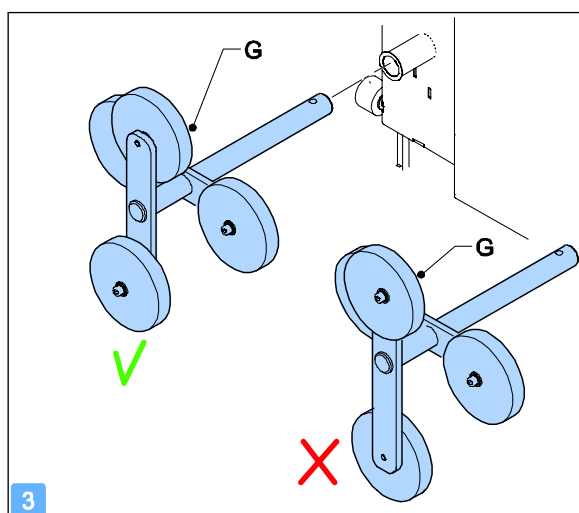
Fit chains E1 and E2 alternately.



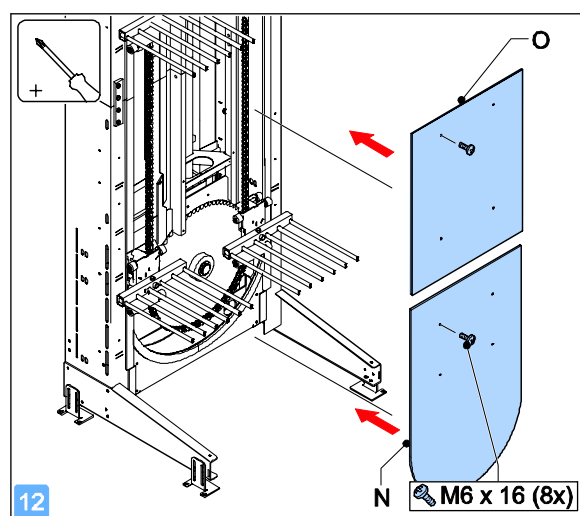
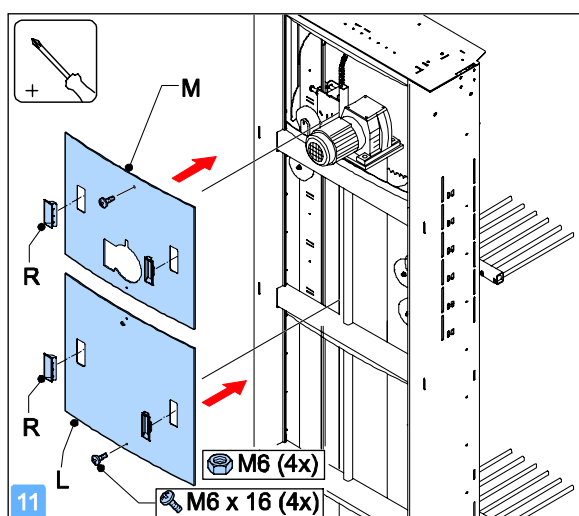
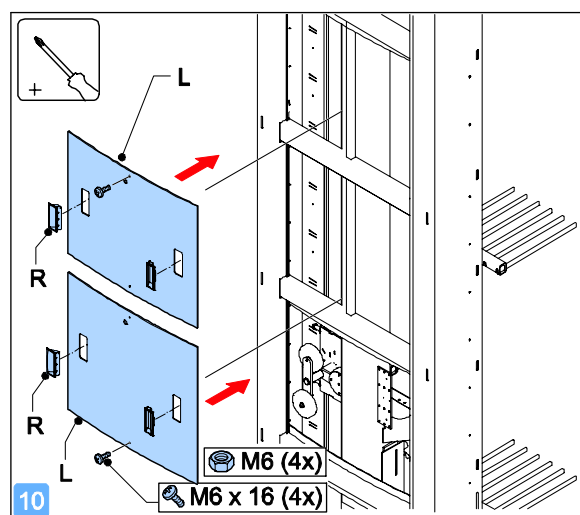
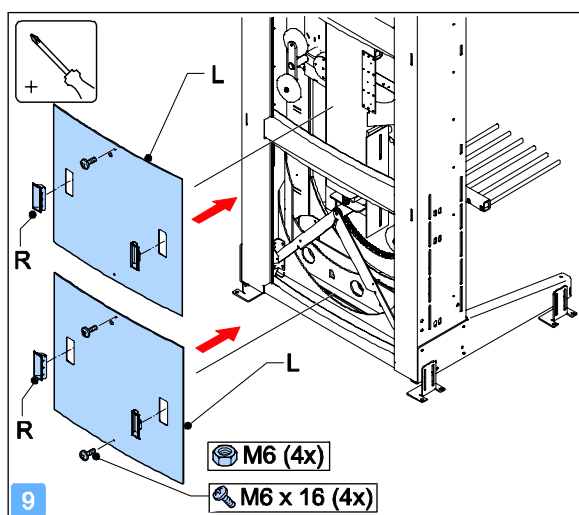
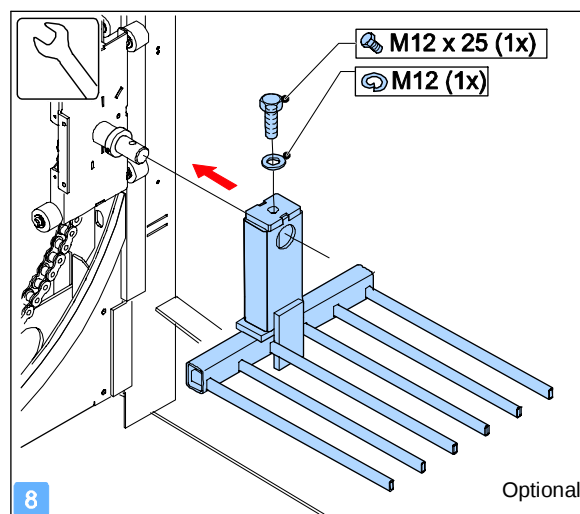
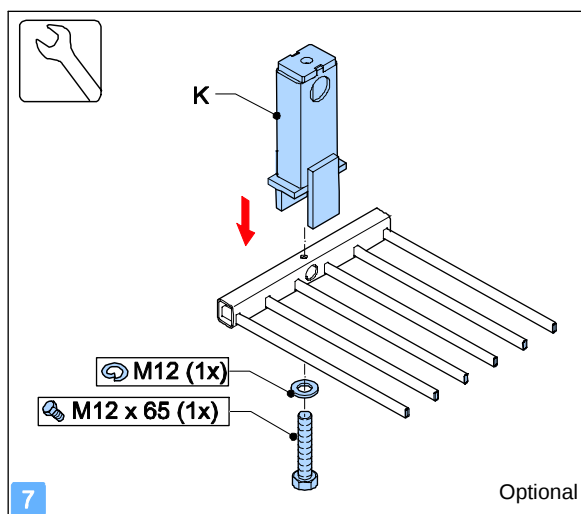
5.4.4 Outfeed sections assembly 1/3



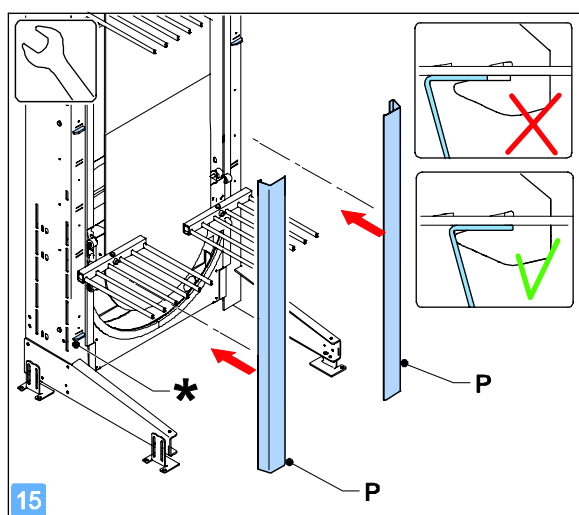
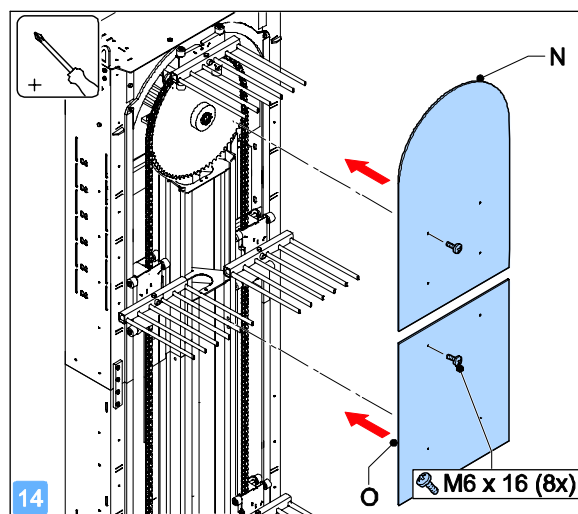
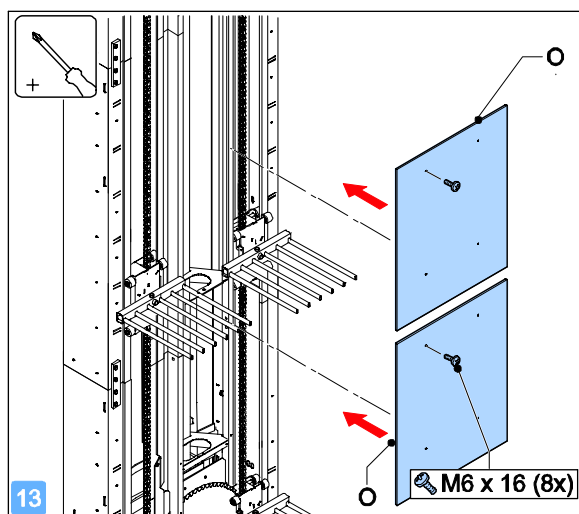
* Tighten bolts now.



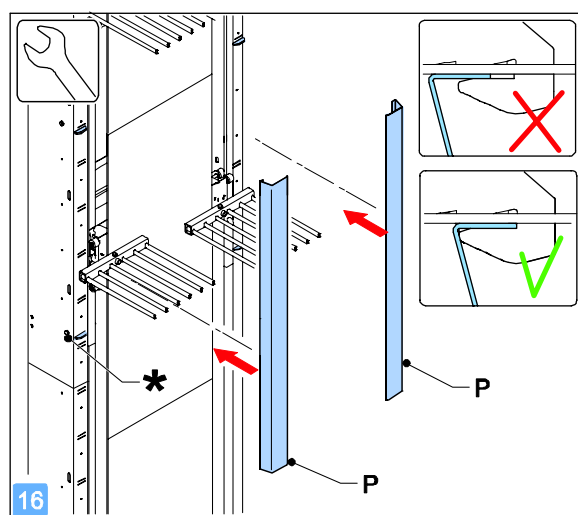
Outfeed sections assembly 2/3



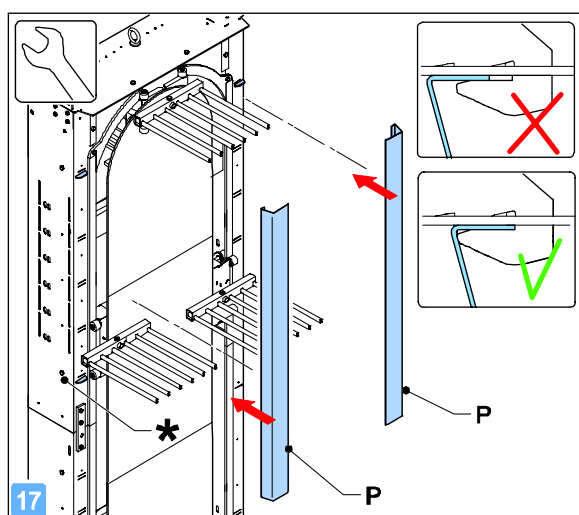
Outfeed sections assembly 3/3



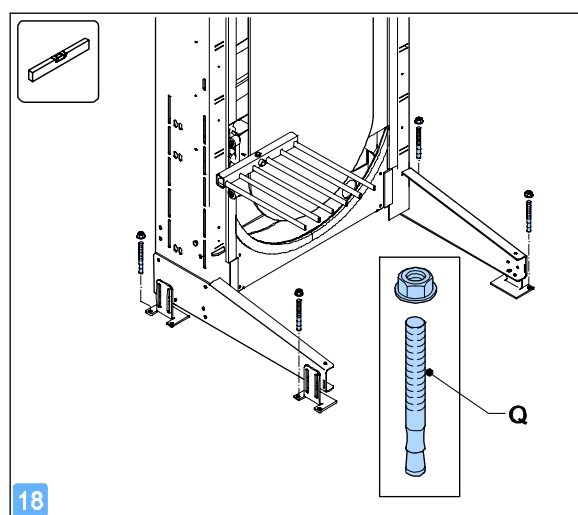
* Tighten bolts now.



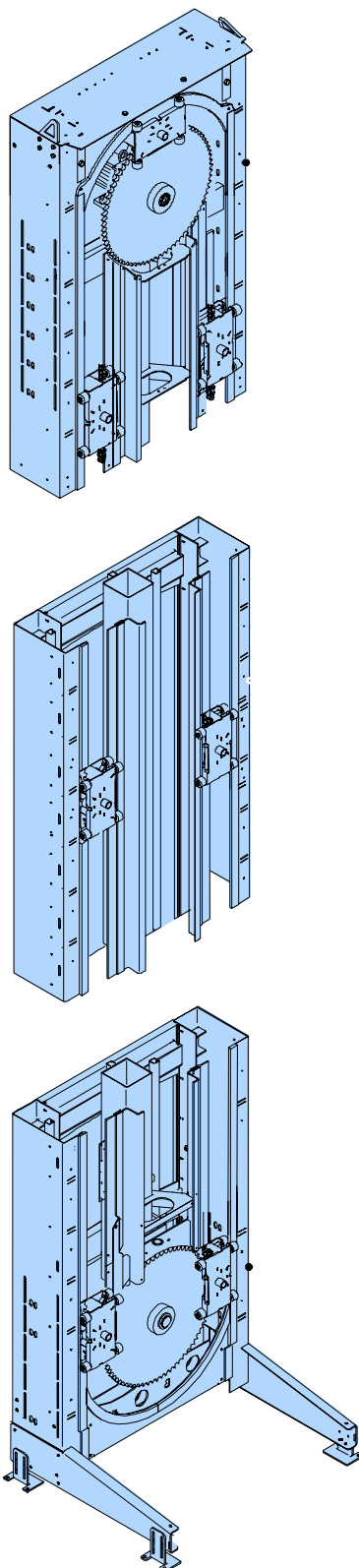
* Tighten bolts now.



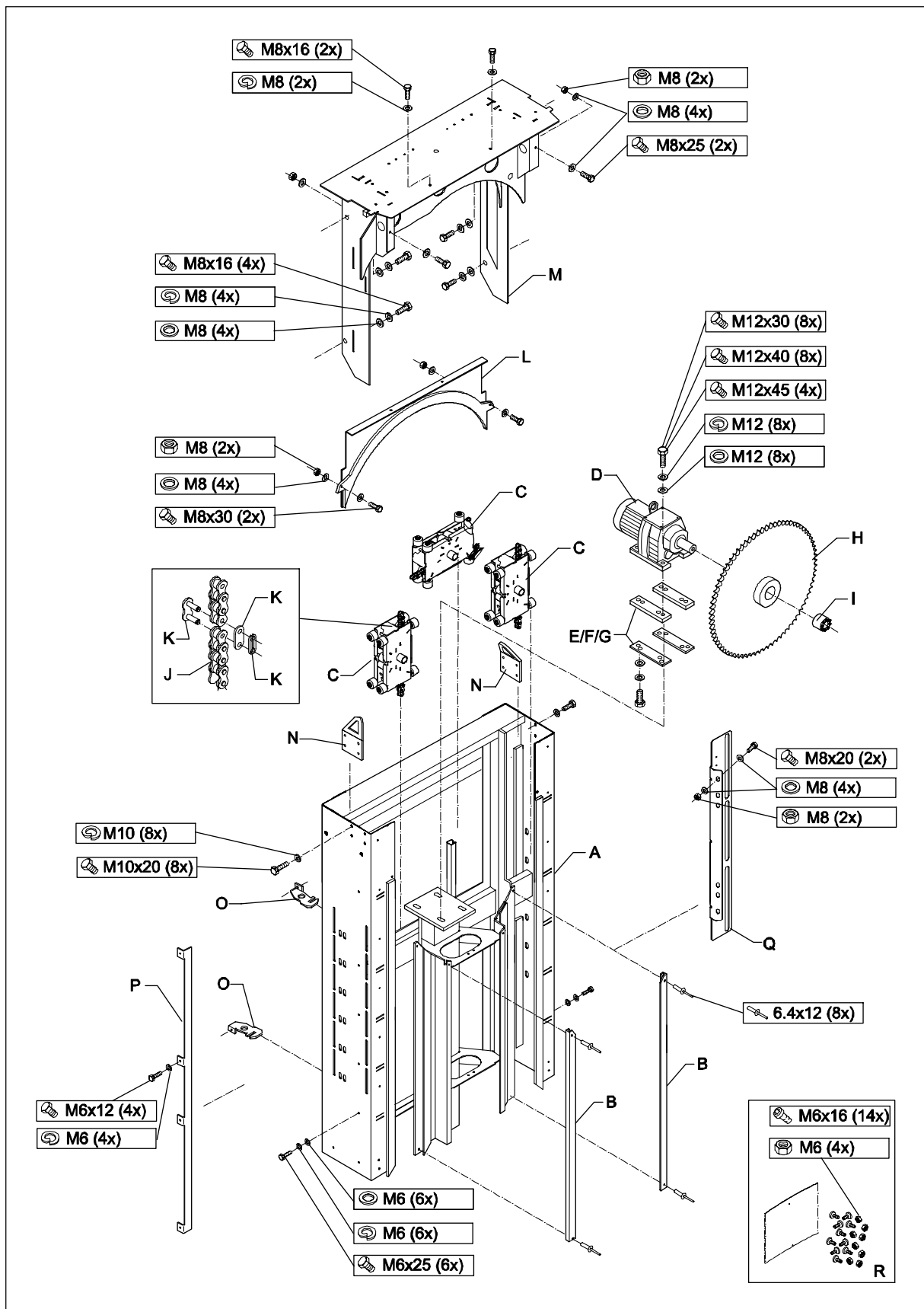
* Tighten bolts now.



6 Exploded views



6.1 Exploded view drive section



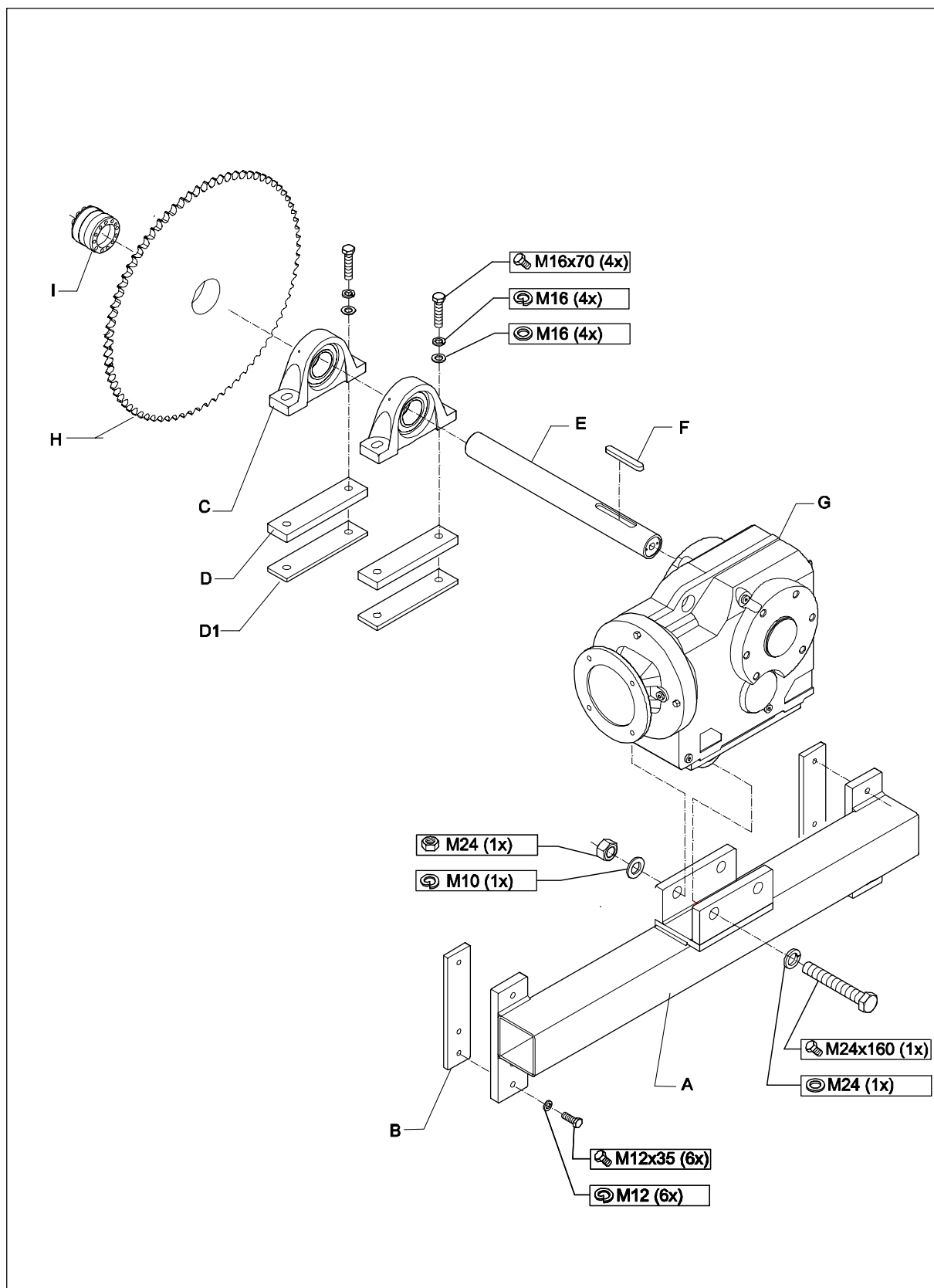
Drive section parts list

Drive section Package B-01				
Part No: 1000143				
Pos	Quantity	Part number	Description (parts)	Notes
	1	1000607	Box	185 x 125 x 90 mm
A	1	1001346	Drive section	L = 1475 mm
	1	1001347	Drive section	L = 1725 mm
	1	1001348	Drive section	L = 1975 mm
B	2	1000099	Chain guide	L = 800 mm
	2	1000107	Chain guide	L = 1050 mm
	2	1000100	Chain guide	L = 1300 mm
C	3	1000214	Trolley	
	3	1000820	Trolley HD + Stainless steel	
D	1		Drive, see layout drawing	in User Manual
E	1	1000187	Spacer plate R77	3 mm
F	1	1000188	Spacer plate R57	
G	1	1000189	Spacer plate R67	
H	1	1000111	Sprocket 1" Z=76	Clamping bush hole D = 60 mm
	1	1000112	Sprocket 1" Z=76	Clamping bush hole D = 65 mm
	1	1001012	Sprocket 1" Z=76	Clamping bush hole D = 90 mm
I	1	1000114	Bush	35/60 L = 51 mm
	1	1000115	Bush	40/65 L = 51 mm
	1	1000803	Bush	60/90 L = 72 mm
J	1	1000875	Chain 16B-1	
K	1	1000154	Closing link 16B-1	
L	1	1000095	Baffle plate top	
M	1	1000056	Curve frame top	
N	2	1000081	Hoisting eye	12 mm
O	6	1000692	Shield clamping bracket	0.8 mm
	6	1000113	Shield clamping bracket	1.5 mm
P	1	1000736	Cable guide side	L = 1275 mm
	1	1000752	Cable guide side	L = 1525 mm
	1	1000756	Cable guide side	L = 1775 mm
Q	1	1000093	Cable guide centre	L = 790 mm
	1	1000088	Cable guide centre	L = 1040 mm
	1	1000089	Cable guide centre	L = 1290 mm
R			Fit these parts at a later stage	

Drive section mounting materials

Drive section Package B-02			
Part No: 1000143			
Quantity	Part number	Description (mounting mat.)	Notes
6	1000148	Washer	M6
10	1000174	Spring washer	M6
8	1000172	Spring washer	M10
6	1000175	Spring washer	M8
18	1000149	Washer	M8
6	1000050	Locknut	M8
6	1000197	Hexagon stud bolt	M6 x 25
2	1001175	Hexagon stud bolt	M8 x 20
8	1000193	Hexagon stud bolt	M10 x 20
2	1000198	Hexagon stud bolt	M8 x 25
6	1000209	Hexagon stud bolt	M8 x 16
2	1000974	Hexagon stud bolt	M8 x 30
8	1000173	Spring washer	M12
8	1000201	Hexagon stud bolt	M12 x 30
8	1000202	Hexagon stud bolt	M12 x 40
4	1000975	Hexagon stud bolt	M12 x 45
8	1000150	Washer	M12
8	1000134	Pop rivet Al	6.4 x 12
4	1000208	Hexagon stud bolt	M6 x 12
4*	1000973	Locknut	M6
14*	1000167	Taptite round head cylinder screw	M6 x 16
*		Fit these parts at a later stage	

6.2 Exploded view Reductor (optional)



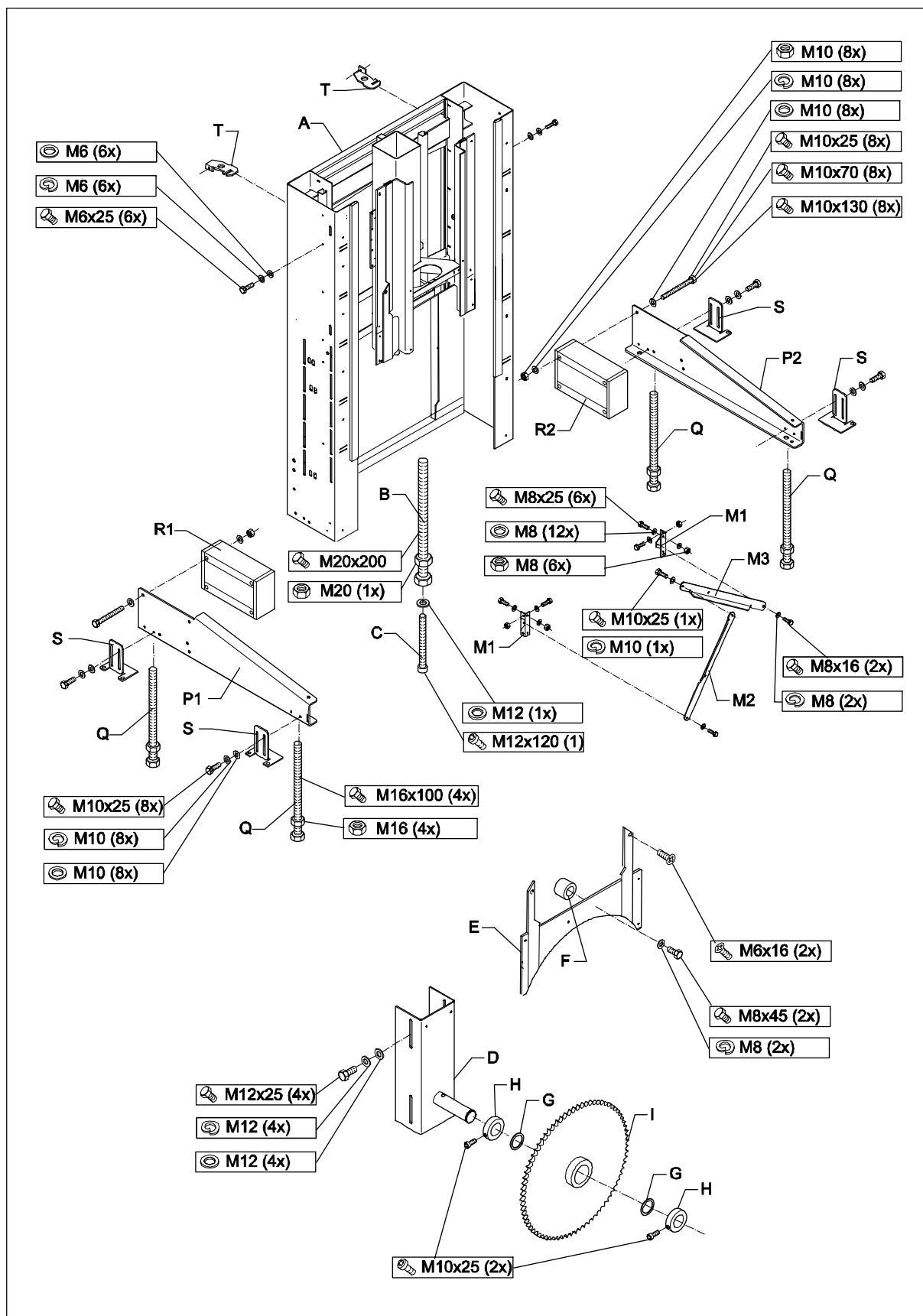
Reductor parts list (optional)

Reductor				
Part No:				
Pos	Quantity	Part number	Description (parts)	Notes
A	1	1001183	Torque arm support KA87 PRmk5	
B	2	1001010	Torque arm nut plate KA87 PRmk5	
C	1	1000976	Bearing block PASE 60N	
D	1	1001007	Bearing block Prmk5 mounting	
D1	2	1001008	Spacer plate for bearing block Prmk5 PASE 60N	
E	2	1001299	Drive shaft PRmk5 KA87	
F	2	1001014	Steel pin	18 x 11 x 125 mm
G	3	1001011	Reductor KA87 / TAM90	I = 147.32
H	3	1001012	Sprocket 1" ø90 galv.	Z = 76 mm
I	1	1000803	Bush DX ø60/ø90	L = 72 mm

Reductor mounting materials (optional)

Reductor				
Part No:				
Quantity	Part number	Description (mounting mat.)	Notes	
4	1001015	Hexagon stud bolt	M16 x 70	
4	1000151	Washer	M16	
4		Spring washer	M16	
1	1001016	Hexagon stud bolt	M24 x 160	
1	1001019	Washer	M24	
1	1001020	Spring washer	M24	
1	1001021	Hexagon nut	M24	
6	1001022	Hexagon stud bolt	M12 x 35	
6	1000173	Spring washer	M12	

6.3 Exploded view tensioning section 1/2



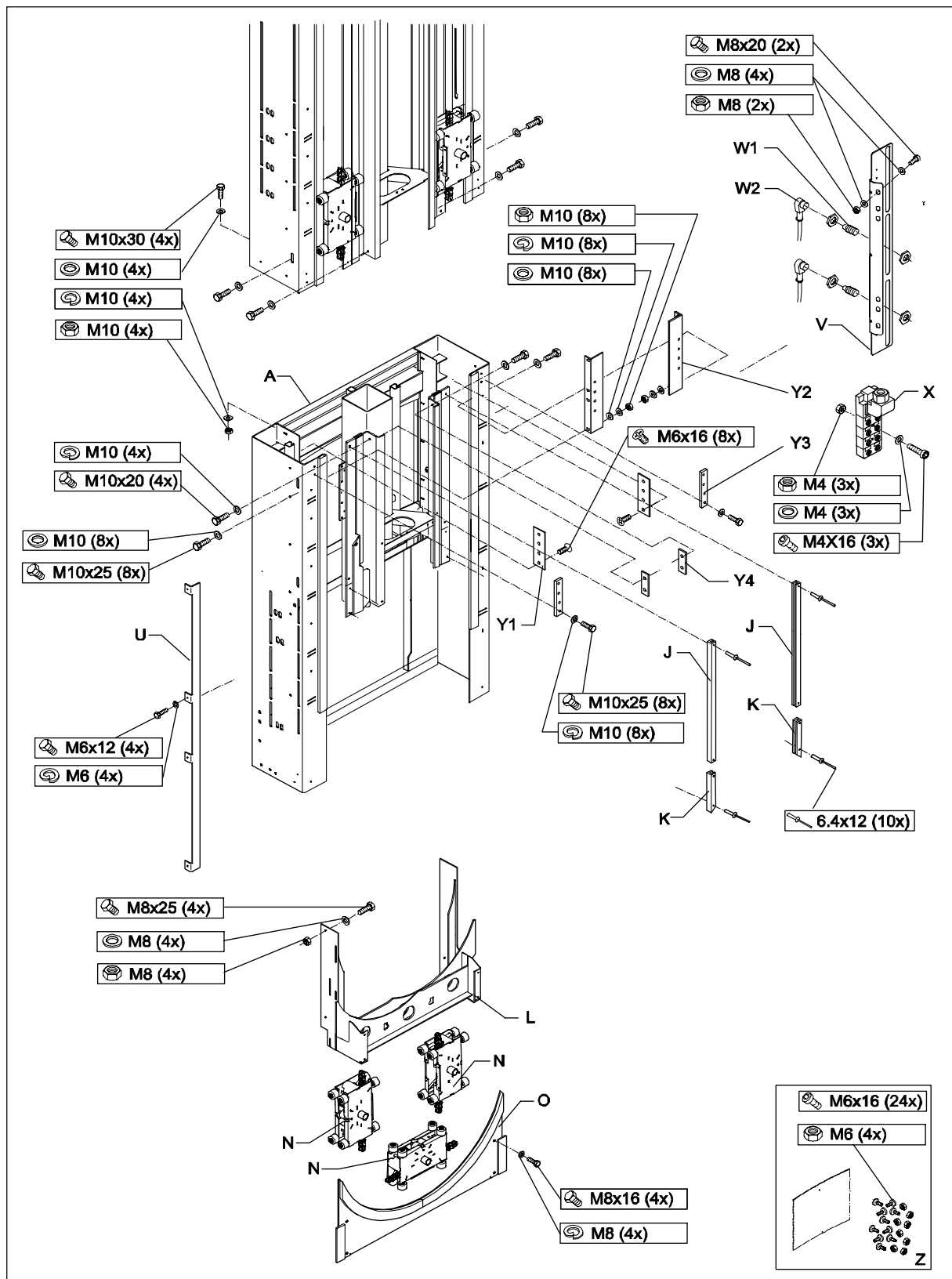
Tensioning section parts list 1/2

Tensioning section Package A-01-1				
Part No: 1000142				
Pos	Quantity	Part number	Description (parts)	Notes
	1	1001606	Box	600 x 350 x 120 mm
A	1	1000815	Tensioning section	L = 1475 mm
	1	1000818	Tensioning section	L = 1725 mm
	1	1000854	Tensioning section	L = 1975 mm
B	1	1000156	Clamping bolt	M20 x 200 mm
C	1	1000087	Cylinder head screw	M12 x 120 mm
D	1	1000157	Lug	
E	1	1000078	Guide plate centre	z = 76
F	1	1000185	Guide plate spacer sleeve	
G	1	1000122	Plastic ring	50 x 61 x 1 mm
H	1	1000165	Adjusting ring	50 mm
I	1	1000863	Sprocket 1" Z=76 with slide bearing	
M1	1	1000049	Tie rod mounting	
M2	1	1000951	Tie rod curve frame left	
M3	1	1000169	Tie rod curve frame right	
P1	1	1000181	Foot right	
P2	1	1000824	Foot left	
Q	4	1000196	Hexagon stud bolt	M16 x 100 mm
R1	1	1000872	Spacer right foot	
R2	1	1000871	Spacer left foot	
S	4	1000164	Adjustment/anchor hook line	H = 150 mm
T	6	1000692	Shield clamping bracket	0.8 mm
	6	1000113	Shield clamping bracket	1.5 mm

Tensioning section mounting materials 1/2

Tensioning section Package A-02-1			
Part No: 1000142			
Quantity	Part number	Description (mounting mat.)	Notes
1	1000087	Hexagon socket bolt	M12 x 120
2	1000086	Hexagon socket bolt	M10 x 25
4	1000126	Hexagon nut	M16
1	1000206	Hexagon nut	M20
4	1000200	Hexagon stud bolt	M12 x 25
4	1000173	Spring washer	M12
5	1000150	Washer	M12
2	1000209	Hexagon stud bolt	M8 x 16
6	1000198	Hexagon stud bolt	M8 x 25
4	1000398	Spring washer	M8
12	1000149	Washer	M8
6	1000050	Locknut	M8
2	1000199	Hexagon stud bolt	M8 x 45
17	1000194	Hexagon stud bolt	M10 x 25
8	1000911	Hexagon stud bolt	M10 x 70
8	1000674	Hexagon stud bolt	M10 x 130
17	1000172	Spring washer	M10
8	1000125	Nut	M10
16	1000147	Washer	M10
6	1000197	Hexagon stud bolt	M6 x 25
6	1000148	Washer	M6
6	1000174	Spring washer	M6
2	1000177	Countersunk bolt	M6 x 16

6.4 Exploded view tensioning section 2/2



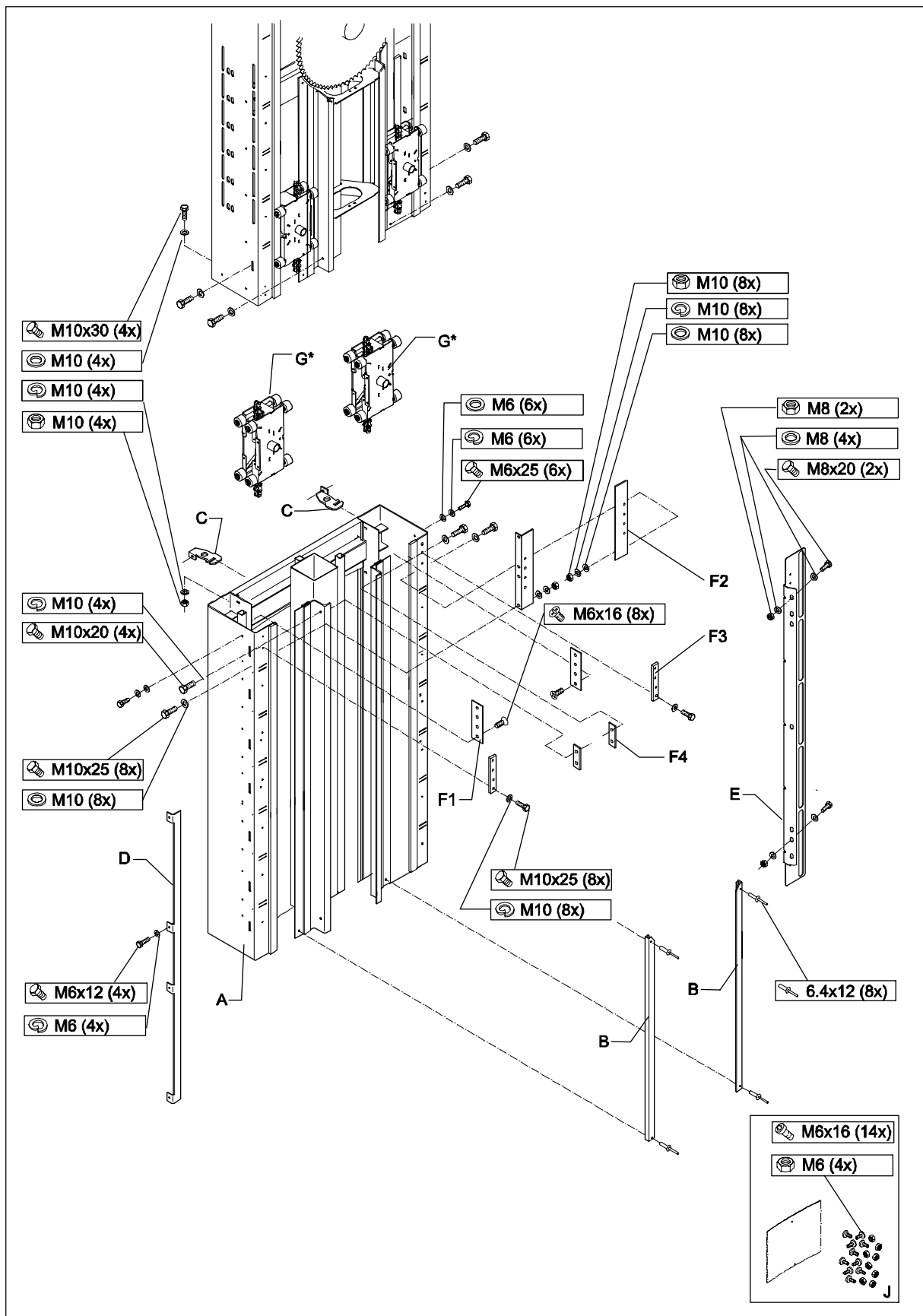
Tensioning section parts list 2/2

Tensioning section Package A-01-2				
Part No: 1000142				
Pos	Quantity	Part number	Description (parts)	Notes
A	1	1000815	Tensioning section	L = 1475 mm
	1	1000818	Tensioning section	L = 1725 mm
	1	1000854	Tensioning section	L = 1975 mm
J	2	1000103	Chain guide profile	L = 480 mm
	2	1000104	Chain guide profile	L = 730 mm
		1000105	Chain guide profile	L = 980 mm
K	2	1000106	Chain guide profile	L = 250 mm
L	1	1000055	Curve frame bottom Z = 76	
N	3	1000214	Trolley	
	3	1000820	Trolley HD	
O	1	1000094	Baffle plate bottom Z = 76	
U	1	1000736	Cable guide side	L = 1275 mm
	1	1000752	Cable guide side	L = 1525 mm
	1	1000756	Cable guide side	L = 1775 mm
V	1	1000088	Cable guide centre	L = 1040 mm
	1	1000089	Cable guide centre	L = 1290 mm
	1	1000091	Cable guide centre	L = 1540 mm
W1	2	1000932	Inductive sensor	
W2	2	1001326	Prefab cable PVC-OB	L = 5 m
	2	1001528	Prefab cable PVC-OB	L = 2 m
	2	1001599	Prefab cable PUR-OB	L = 5 m UL CSA
	2	1001600	Prefab cable PVC-OB	L = 10 m
	2	1001601	Prefab cable PVC-OB	L = 1 m
X	1	1000723	Exact 12	4 x M12
	1	1000903	Exact 12	8 x M12
Y1	2	1000117	Wheel guide coupling plate	
Y2	2	1000118	Inner column coupling plate	
Y3	2	1000119	Outer column coupling plate	
Y4	2	1000129	Nut plate	M10 st. 50 mm
Z			Fit these parts at a later stage	

Tensioning section mounting materials 2/2

Tensioning section Package A-02-2			
Part No: 1000142			
Quantity	Part number	Description (mounting mat.)	Notes
10	1000134	Pop rivet Al	6.4 x 12
8	1000177	Countersunk hexagon socket bolt	M6 x 16
4	1000209	Hexagon stud bolt	M8 x 16
2	1001175	Hexagon stud bolt	M8 x 20
4	1000198	Hexagon stud bolt	M8 x 25
10	1000398	Spring washer	M8
12	1000149	Washer	M8
6	1000050	Locknut	M8
4	1000193	Hexagon stud bolt	M10 x 20
16	1000194	Hexagon stud bolt	M10 x 25
4	1000195	Hexagon stud bolt	M10 x 30
24	1000172	Spring washer	M10
12	1000125	Nut	M10
20	1000147	Washer	M10
4	1000208	Hexagon stud bolt	M6 x 12
4	1000174	Spring washer	M6
3	1001677	Countersunk hexagon socket bolt	M4 x 16
3	1001676	Spring washer	M4 x 16
3	1001675	Nut	M4 x 16
4*	1000973	Locknut	M6
24*	1000167	Taptite round head cylinder screw	M6 x 16
*		Fit these parts at a later stage	

6.5 Exploded view centre section



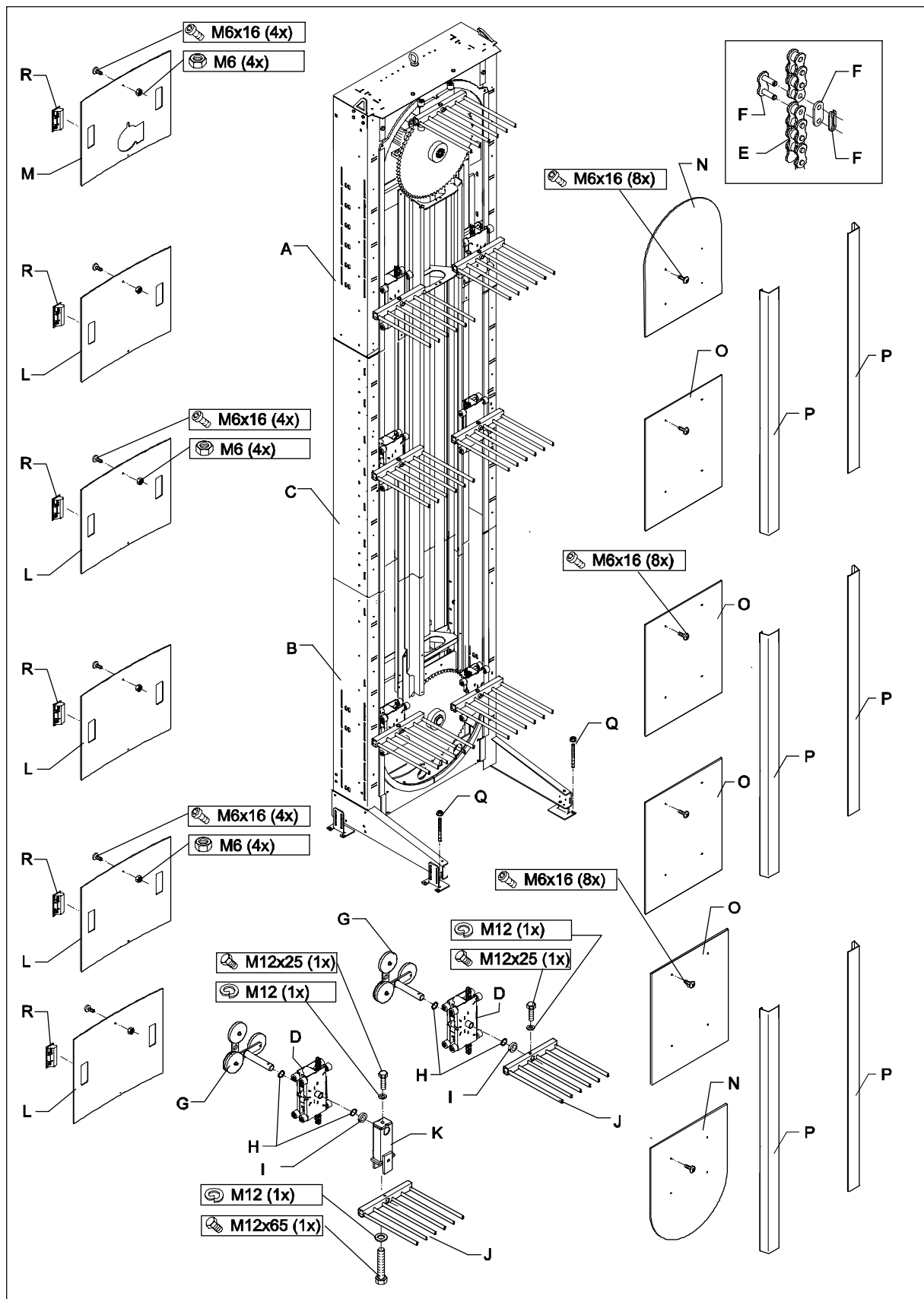
Centre section parts list

Centre section Package C-01				
Part No: 1000144				
Pos	Quantity	Part number	Description (parts)	Notes
	1	1001606	Box	600 x 350 x 120 mm
A	1	1000800	Centre section	L = 1250 mm
	1	1000805	Centre section	L = 1950 mm
	1	1000810	Centre section	L = 1350 mm
B	2	1000101	Chain guide profile	L = 1250 mm
	2	1000102	Chain guide profile	L = 1950 mm
	2	1000813	Chain guide profile	L = 1350 mm
C	6	1000692	Shield clamping bracket	0.8 mm
	6	1000113	Shield clamping bracket	1.5 mm
D	1	1000801	Cable guide side	L = 1050 mm
	1	1000806	Cable guide side	L = 1750 mm
	1	1000812	Cable guide side	L = 1350 mm
E	1	1000090	Cable guide centre	L = 1240 mm
	1	1000102	Cable guide centre	L = 1940 mm
	1	1000811	Cable guide centre	L = 1340 mm
F1	2	1000117	Wheel guide coupling plate	
F2	2	1000118	Inner column coupling plate	
F3	2	1000119	Outer column coupling plate	
F4	2	1000129	Nut plate	M10 st.50 mm
G*	3	1000214	Trolley assembly	
	3	1000820	Trolley HD assembly	
J			Fit these parts at a later stage	

Centre section mounting materials

Centre section Package C-02			
Part No: 1000144			
Quantity	Part number	Description (mounting mat.)	Notes
1	1001606	Box	600 x 350 x 120 mm
8	1000134	Pop rivet Al	6.4 x 12
6	1000197	Hexagon stud bolt	M6 x 25
6	1000148	Washer	M6
10	1000174	Spring washer	M6
8	1000177	Countersunk hexagon socket bolt	M6 x 16
24	1000172	Spring washer	M10
12	1000125	Nut	M10
20	1000147	Washer	M10
4	1000193	Hexagon stud bolt	M10 x 20
16	1000194	Hexagon stud bolt	M10 x 25
4	1000195	Hexagon stud bolt	M10 x 30
4	1000149	Washer	M8
2	1000050	Locknut	M8
4	1001175	Hexagon stud bolt	M8 x 20
4	1000208	Hexagon stud bolt	M6 x 12
2	1000209	Hexagon stud bolt	M8 x 16
4*	1000973	Locknut	M6
14*	1000167	Taptite round head cylinder screw	M6 x16
*		Fit these parts at a later stage	

6.6 Exploded view subassembly sections



Subassembly sections parts list -1

Subassembly Package C-01-1			
Part No: 1000144			
Pos	Part number	Description (parts)	Notes
A		Drive section	
B		Tensioning section	
C		Centre section	
D		Trolley	
E	1000097	Chain 1" 16B-1	7 links
	1000702	Chain 1" 16B-1	1 link
F	1000154	Closing link 16B-1	
G	1000215	Standard guide subassembly	
	1000821	Subassembly guide HD stainless steel	
H	1000130	Spacer	30 x 42 x 0.5 mm
	1000224	Spacer	35 x 45 x 0.5 mm
I	1000116	Clamp adjusting ring	30 mm
	1000223	Clamp adjusting ring	35 mm
J	1000713	Fork St.75 8x	L = 473 mm
	1000714	Fork St.75 6x	L = 473 mm
	1000715	Fork HD St.75 6x	L = 523 mm
	1000716	Fork HD St.75 6x	L = 473 mm
	1000751	Fork HD St.75 8x	L = 673 mm
	1000943	Fork St.75 10x	L = 673 mm
	1000982	Fork St.100 8x	L = 723 mm
	1001095	Fork St.75 6x	L = 473 mm
	1001168	Fork St.75 6x	L = 473 mm
	1001212	Fork HD St.75 8x	L = 723 mm
	1001213	Fork HD St.75 8x	L = 743 mm
	1001259	Fork St.55 10x	L = 473 mm
	1001370	Fork HD St.75 6x	L = 473 mm
	1001635	Fork HD St.75 10x	L = 523 mm
	10002567	Fork St.75 6x	L = 625 mm
M	1000004	Cover PRmk5 rear	5 mm R77
	1000738	Cover PRmk5 rear	0.75 mm R77
	1001023	Cover PRmk5 rear	5 mm R77 Mov.
	1001402	Cover PRmk5 rear	0.75 mm R77
	1001650	Cover PRmk5 rear	0.75 mm R77
K	1001228	Goose-neck	150 mm
	1001229	Goose-neck	100 mm
	1001230	Goose-neck	75 mm

Subassembly sections parts list -2

Subassembly			
Part No: 1000144			
Pos	Part number	Description (parts)	Notes
L	1000006	Cover PRmk5 rear 5 mm	781 x H 595 plastic Red MJ21
L	1000007	Cover PRmk5 rear 5 mm	781 x H 845 plastic Red MJ21
L	1000008	Cover PRmk5 rear 5 mm	781 x H1095 plastic Red MJ21
L	1000009	Cover PRmk5 rear 5 mm	781 x H 521 plastic Red MJ21
L	1000010	Cover PRmk5 rear 5 mm	781 x H 871 plastic Red MJ21
L	1000011	Cover PRmk5 rear 5 mm	781 x H 958 plastic Red MJ21
L	1000012	Cover PRmk5 rear 5 mm	781 x H 458 plastic Red MJ21
L	1000013	Cover PRmk5 rear 5 mm	781 x H 958 plastic Red MJ21
L	1000014	Cover PRmk5 rear 5 mm	781 x H 770 plastic Red MJ21
L	1000855	Cover PRmk5 rear 0.8 mm	781 x H 571 steel, RAL3020
L	1001196	Cover PRmk5 rear 0.75 mm	982 x H 595 steel, RAL3020
L	1001294	Cover PRmk5 rear 5 mm	781 x H 981 plastic Green PW18
L	1001392	Cover PRmk5 rear 0.75 mm span	793 x H 770, S235 SV RAL3020
L	1001393	Cover PRmk5 rear 0.75 mm	781 x H 759, S235 SV RAL3020
L	1001394	Cover PRmk5 rear 0.75 mm	781 x H1009 S235 SV RAL3020
L	1001397	Cover PRmk5 rear 0.75 mm	789 x H 508, S235 SV RAL3020
L	1001398	Cover PRmk5 rear 0.75 mm	799 x H 521, S235 SV RAL3020
L	1001399	Cover PRmk5 rear 0.75 mm	799 x H 871, S235 SV RAL3020
L	1001400	Cover PRmk5 rear 0.75 mm	799 x H 595, S235 SV RAL3020
L	1001403	Cover PRmk5 rear 0.75 mm	799 x H 845, S235 SV RAL3020
L	1001406	Cover PRmk5 rear 0.75 mm	799 x H1095, S235 SV RAL 3020
L	1001651	Cover PRmk5 rear 0.75 mm	799 x H 595, S235 SV RAL 5017
L	1001652	Cover PRmk5 rear 0.75 mm	799 x H 521, S235 SV RAL 5017
L	1001654	Cover PRmk5 rear 0.75 mm	799 x H 871, S235 SV RAL 5017
L	1001655	Cover PRmk5 rear 0.75 mm	781 x H1009 S235 SV RAL 5017
L	1001656	Cover PRmk5 rear 0.75 mm span	793 x H 770, S235 SV RAL 5017
L	1001689	Cover PRmk5 rear 0.75 mm	799 x H1095, S235 SV RAL 5017
L	1001810	Cover PRmk5 rear 0.75 mm	799 x H 845, S235 SV RAL 9010
L	1001811	Cover PRmk5 rear 0.75 mm span	793 x H 770, S235 SV RAL 9010
L	1001812	Cover PRmk5 rear 0.75 mm	781 x H1009 S235 SV RAL 9010
M	1001841	Cover PRmk5 rear 0.75 mm R77	793 x H 684, S235 SV RAL 9006
M	1000004	Cover PRmk5 rear 5 mm R77	781 x H 684 plastic Red MJ21
M	1001023	Cover PRmk5 rear 5 mm R77 Mov.	781 x H 684 plastic Red MJ21
M	1001402	Cover PRmk5 rear 0.75 mm R77	793 x H 684, S235 SV RAL 3020
M	1001650	Cover PRmk5 rear 0.75 mm R77	793 x H 684, S235 SV RAL 5017
M	1001809	Cover PRmk5 rear 0.75 mm R77	793 x H 684, S235 SV RAL 9010
N	1000015	Cover PRmk5 front 8 mm sprocket	586 x H 758 plastic, grey 7036
N	1000963	Cover PRmk5 front 8 mm sprocket	586 x H 758 plastic, white 667
N	1001667	Cover PRmk5 front 8 mm sprocket	586 x H 758 plastic, blue FL29
N	1001805	Cover PRmk5 front 3 mm sprocket	586 x H 758 alu panel, white (matt)
N	1001830	Cover PRmk5 front 3 mm sprocket	586 x H 758 alu panel, RAL9006

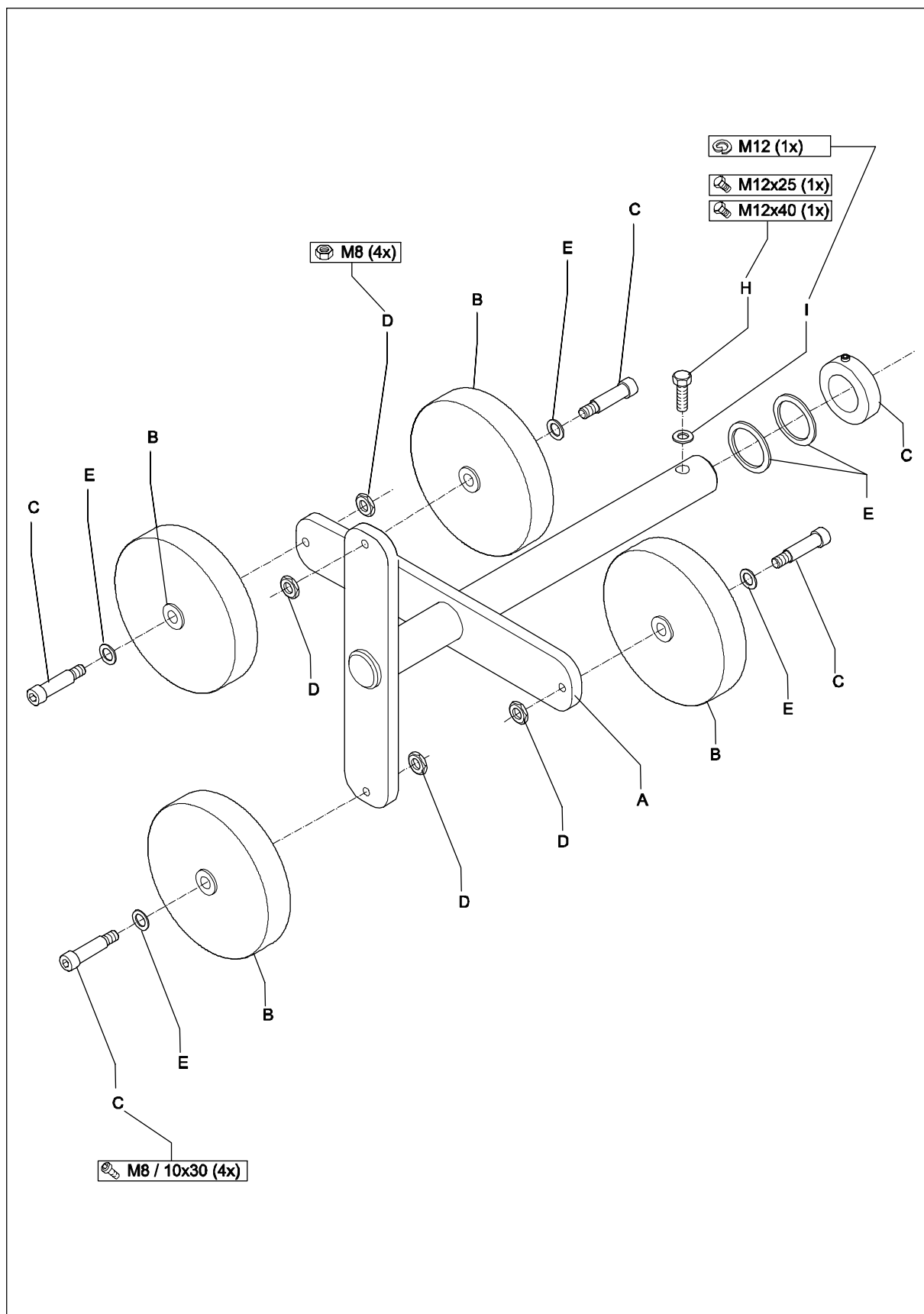
Subassembly sections parts list -3

Subassembly			
Part No: 1000144			
Pos	Part number	Description (parts)	Notes
O	1000017	Cover PRmk5 front 8 mm A1475	586 x H 487 plastic, grey 7036
O	1000018	Cover PRmk5 front 8 mm A1725	586 x H 737 plastic, grey 7036
O	1000019	Cover PRmk5 front 8 mm A1975	586 x H 988 plastic, grey 7036
O	1000020	Cover PRmk5 front 8 mm A1250	586 x H 758 plastic, grey 7036
O	1000021	Cover PRmk5 front 8 mm M1950	586 x H 1949 plastic, grey 7036
O	1000022	Cover PRmk5 front 8 mm S1975	586 x H 914 plastic, grey 7036
O	1000023	Cover PRmk5 front 8 mm S1475	586 x H 414 plastic, grey 7036
O	1000024	Cover PRmk5 front 8 mm S1725	586 x H 664 plastic, grey 7036
O	1000856	Cover PRmk5 front 8 mm	586 x H 1349 plastic, grey 7036
O	1000962	Cover PRmk5 front 8 mm A1475	586 x H 487 plastic, white 667
O	1000964	Cover PRmk5 front 8 mm A1250	586 x H 758 plastic, white 667
O	1000966	Cover PRmk5 front 8 mm S1725	586 x H 684 plastic, white 667
O	1001197	Cover PRmk5 front 8 mm	586 x H 677 plastic, grey 7036
O	1001458	Cover PRmk5 front 8 mm	586 x H 1749 plastic, grey 7036
O	1001459	Cover PRmk5 front 8 mm	586 x H 1274 plastic, grey 7036
O	1001668	Cover PRmk5 front 8 mm A1975	586 x H 988 plastic, blue FL29
O	1001669	Cover PRmk5 front 8 mm A1250	586 x H 1249 plastic, blue FL29
O	1001670	Cover PRmk5 front 8 mm M1950	586 x H 1949 plastic, blue FL29
O	1001671	Cover PRmk5 front 8 mm S1975	586 x H 914 plastic, blue FL29
O	1001806	Cover PRmk5 front 3 mm A1725	586 x H 737 alu panel, white (matt)
O	1001807	Cover PRmk5 front 3 mm S1975	586 x H 914 alu panel, white (matt)
O	1001828	Cover PRmk5 front 3 mm A1475	586 x H 487 alu panel, RAL9006
O	1001829	Cover PRmk5 front 3 mm A1975	586 x H 988 alu panel, RAL9006
O	1001831	Cover PRmk5 front 3 mm A1250	586 x H 1249 alu panel, RAL9006
O	1001832	Cover PRmk5 front 3 mm M1950	586 x H 1949 alu panel, RAL9006
O	1001833	Cover PRmk5 front 3 mm S1725	586 x H 684 alu panel, RAL9006
O	1001834	Cover PRmk5 front 3 mm S1975	586 x H 914 alu panel, RAL9006
O	1001835	Cover PRmk5 front 3 mm S1975	586 x H 914 alu panel, RAL9006
P	1001296	Cover PRmk5 side 5.0 mm	L = 3050 plastic red MJ21(OLDER TYPE mk5)
P	1000737	Cover PRmk5 side 0.8 mm	L = 475 steel RAL3020
P	1000753	Cover PRmk5 side 0.8 mm	L = 1725 steel RAL3020
P	1000789	Cover PRmk5 side 0.8 mm	L = 1975 steel RAL3020
P	1000802	Cover PRmk5 side 0.8 mm	L = 1250 steel RAL3020
P	1000807	Cover PRmk5 side 0.8 mm	L = 1950 steel RAL3020
P	1000814	Cover PRmk5 side 0.8 mm	L = 1350 steel RAL3020 (shortened standard cover)
P	1001663	Cover PRmk5 side 0.8 mm	L = 1975 steel RAL3020
P	1001664	Cover PRmk5 side 0.8 mm	L = 1250 steel RAL3020
P	1001665	Cover PRmk5 side 0.8 mm	L = 1950 steel RAL3020
P	1001666	Cover PRmk5 side 0.8 mm	L = 1725 steel RAL3020
P	1001808	Cover PRmk5 side 0.8 mm	L = 1725 steel RAL3020
P	1001840	Cover PRmk5 side 0.8 mm	L = 1725 steel RAL3020
Q	1000278	Anchor FBNII 10/20	M10 x 81 galv.
Q	1001219	Anchor stainless steel A2	M10 x 90
R	1000742	Built-in handle	

Subassembly section mounting materials

Subassembly Package C-02			
Part No: 1000144			
Quantity	Part no.	Description (mounting mat.)	Notes
1	1001614	Hexagon stud bolt	M12 x 65
1	1000173	Spring washer	M12
2	1000200	Hexagon stud bolt	M12 x 25
8	1000201	Hexagon stud bolt	M12 x 30
12*	1000973	Locknut	M6
52*	1000167	Taptite round head cylinder screw	M6 x 16

6.7 Exploded view guide



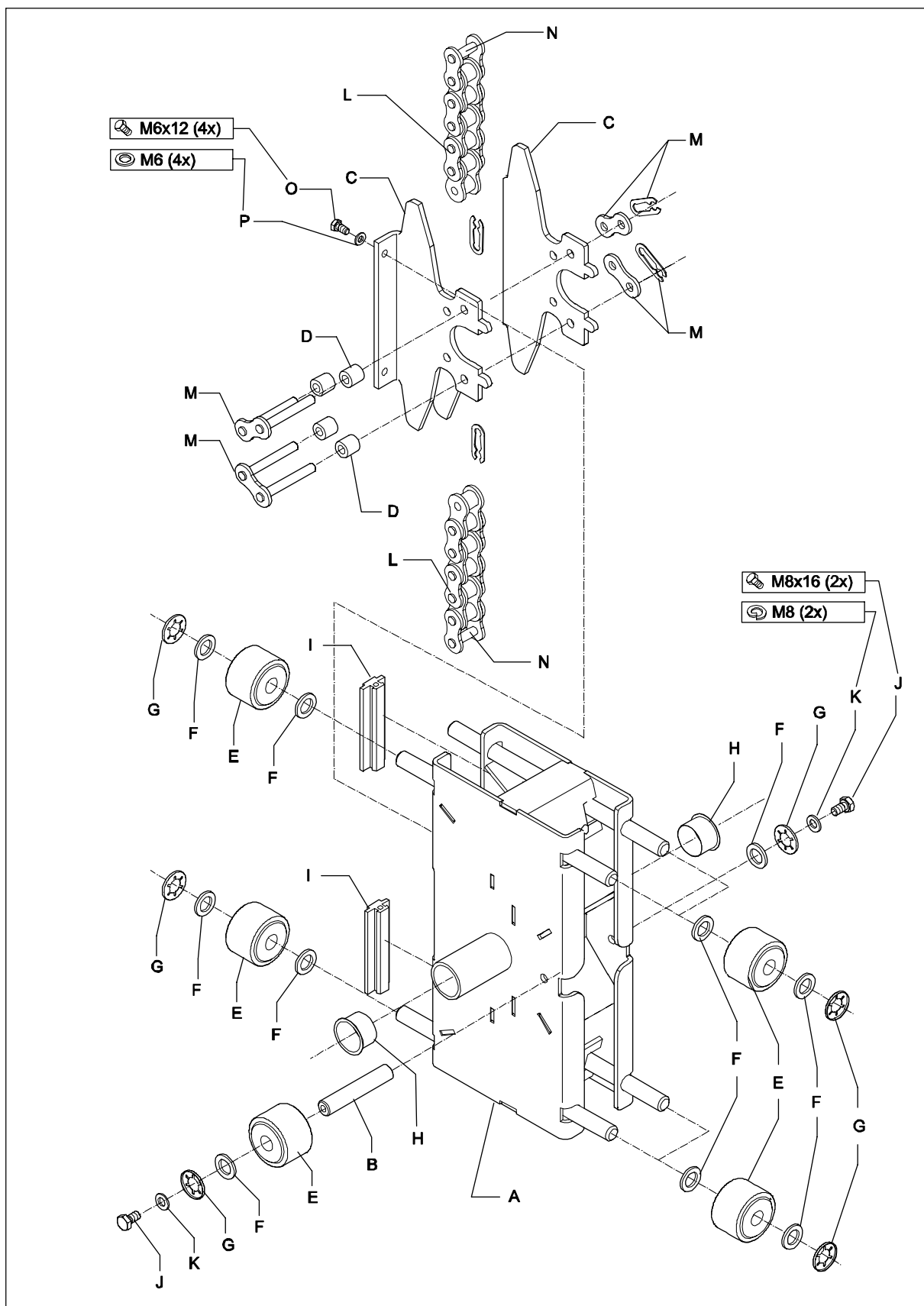
Guide parts list

Guide				
Part No:				
Pos	Quantity	Part number	Description (parts)	Notes
A.	1	1000135	Guide PRmk5 galv.	
B	4	1000190	Wheel PP	125x24/10-28G-SK
C	4	1000219	Adjustment screw steel	(M8) ø10 x 30
D	4	1000220	Low hexagon nut galv. 8	M8
E	4	1000221	Spacer 1 mm steel	ø10*ø16
F	1	1000116	Clamp adjuster washer steel	ø30
G	2	1000130	Spacer steel	0.5 mm ø30*ø42
H	1	1000200	Hexagon stud bolt 8.8 galv.	M12 x 25
I	1	1000173	Spring washer galv.	M12

Guide HD				
Part No:				
Pos	Quantity	Part number	Description (parts)	Notes
A.	1	1000218	Guide PRmk5 HD galv.	
B	4	1000190	Wheel PP	125x24/10-28G-SK
C	4	1000219	Adjustment screw steel	(M8) ø10 x 30
D	4	1000220	Low hexagon nut galv. 8	M8
E	4	1000221	Spacer 1 mm, steel	ø10*ø16
F	1	1000223	Clamp adjusting ring, steel	ø35
G	2	1000224	Spacer 0.5 mm, steel ø35*ø45	0.5 mm ø35*ø45
H	1	1000202	Hexagon stud bolt 8.8 galv. M12 x 40	M12 x 40
I	1	1000173	Spring washer galv. M12	M12

Guide stainless steel				
Part No: 1000799				
Pos	Quantity	Part number	Description (parts)	Notes
A.	1	1000765	Guide PRmk5 Galv. stainless steel	
B	4	1000190	Wheel PP 125x24/10-28G-SK	125x24/10-28G-SK
C	4	1001221	Adjustment screw stainless steel	(M8) ø10 x 30
D	4	1001222	Low hexagon nut stainless steel	M8
E	4	1001225	Flat washer stainless steel	M10
F	1	1000767	Clamp adjustment washer stainless steel	ø30
G	2	1001224	Spacer 0.5 mm, stainless steel	0.5 mm ø35*ø45
H	1	1001226	Hexagon stud bolt stainless steel A2 M12 x 25	M12 x 25
I	1	1001227	Spring washer stainless steel M12	M12

6.8 Exploded view trolley



Trolley parts list 1/2

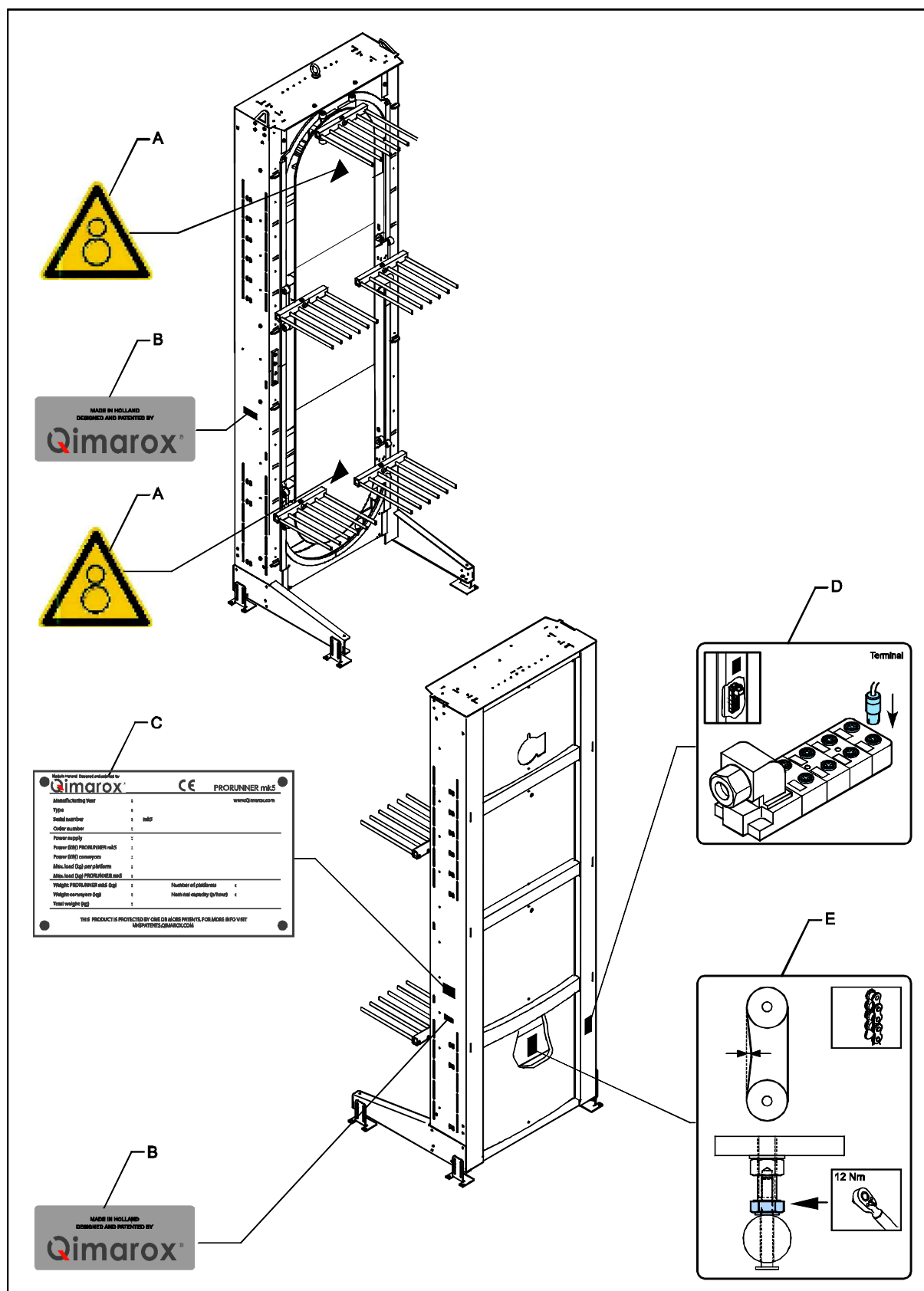
Trolley				
Part No:				
Pos	Quantity	Part number	Description (parts)	Notes
A	1	1000076	Frame carrier PRmk5 galv.	3 mm
B	1	1000043	Trolley shaft PRmk5	Ø15 L = 81.4 mm
C	2	1000098	Chain mounting trolley HD	
D	4	1000186	Spacer sleeve for closing link	
E	9	1000672	Ball bearing	D = 5 x 30
F	18	1000153	Flat washer galv.	M14
G	10	1000162	Starlock without cover	Ø15 mm
H	2	1000120	Collar bearing Iglidur G	Ø30 x 20 mm
I	2	1000139	Trolley rubber profile	L = 90 mm
J	2	1000209	Hexagon stud bolt 8.8 galv.	M8 x 16
K	2	1000398	Spring washer galv.	M8
L	2	1000097	Chain 16B-1 RKK 7	link = 177.8 mm
M	2	1000155	Closing link 16B-2 RKK	
N	2	1000154	Closing link 16B-1 RKK	
O	4	1000208	Hexagon stud bolt 8.8 galv.	M6 x 12
P	4	1000148	Flat washer galv.	M6 x 12

Trolley HD				
Part No:				
Pos	Quantity	Part number	Description (parts)	Notes
A	1	1000077	Frame carrier PRmk5 HD galv.	
B	1	1000043	Trolley shaft PRmk5	Ø15 L = 81.4 mm
C	2	1000098	Chain mounting trolley HD	
D	4	1000186	Spacer sleeve for closing link	
E	9	1000191	Wheel GSPO50/15K	
F	18	1000153	Flat washer galv.	M14
G	10	1000162	Starlock without cover	Ø15 mm
H	2	1000121	Collar bearing sintered bronze finish	Ø30 x 20 mm
I	2	1000139	Trolley rubber profile	L = 90 mm
J	2	1000209	Hexagon stud bolt 8.8 galv.	M8 x 16
K	2	1000398	Spring washer galv.	M8
L	2	1000097	Chain 16B-1 RKK 7	link = 177.8 mm
M	2	1000155	Closing link 16B-2 RKK	
N	2	1000154	Closing link 16B-1 RKK	
O	4	1000208	Hexagon stud bolt 8.8 galv.	M6 x 12
P	4	1000148	Flat washer galv.	M6

Trolley parts list 2/2

Trolley stainless steel				
Part No: 1000798				
Pos	Quantity	Part number	Description (parts)	Notes
A	1	1000757	Frame carrier PRmk5 stainless steel	4 mm
B	1	1000758	Trolley shaft PRmk5 stainless steel	ø15 L = 81.4 mm
C	2	1000759	Chain mounting trolley stainless steel	
D	4	1000760	Spacer sleeve for closing link stainless steel	
E	9	1000763	Wheel	GSPO50/15XK
F	18	1001043	Flat washer stainless steel A2	M14
G	10	1001216	Starlock without cover	ø15 mm
H	2	1000764	Collar bearing Iglidur G	ø30 x 20 mm
I	2	1000139	Trolley rubber profile	L = 90 mm
J	2	1001217	Hexagon stud bolt stainless steel A2	M8 x 16
K	2	1001218	Spring washer stainless steel A2	M8
L	2	1000770	Chain 16B-1 SY 7	link = 177.8
M	2	1000769	Closing link 16B-2 SY Aquaprf	
N	2	1000768	Closing link 16B-1 SY Aquaprf	
O	4	1001219	Hexagon stud bolt stainless steel A2	M6 x 12
P	4	1001220	Flat washer stainless steel A2	M6

7 Sticker locations



Sticker parts list

Trolley				
Part No:				
Pos	Quantity	Part number	Description (parts)	Notes
A	2	1001535	Trapping sticker	
B	2	1002821	Doming sticker PRORUNNER mk5 Qimarox patented	100 x 40 mm
C	1	1000793	Type plate	
D	1	1001441	Doming sticker PRORUNNER mk5 MURR module	100 x 95 mm
E	1	1001442	Doming sticker PRORUNNER mk5 tension chain	50 x 70 mm



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