

Print Number:

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**NOBLELIFT**

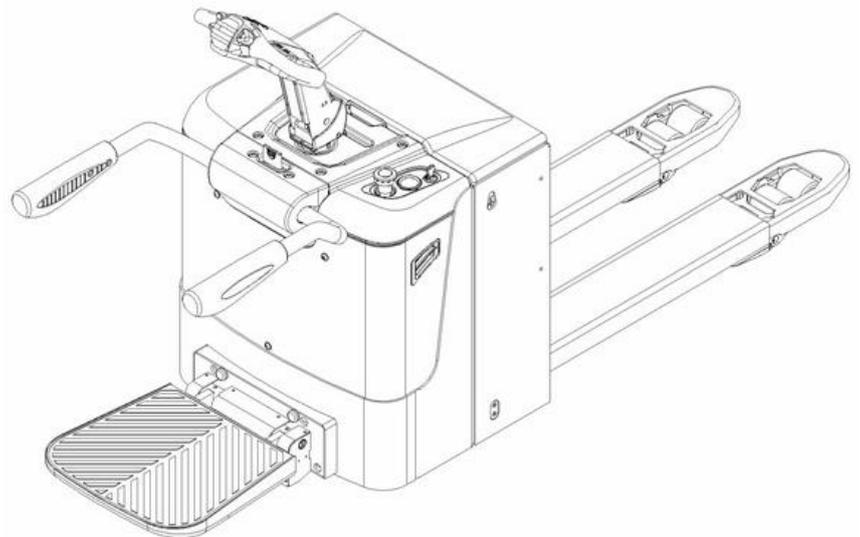


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**Electric Pallet Truck PT20**

**PARTS MANUAL**

505646020101



Version: V05

Truck Identification Number From:

Parts Manual

PT20-PM05EN

Please order spare parts from authorized dealers of Noblelift Intelligent Equipment Co., LTD.

In order to avoid wrong delivery, all the orders for spare parts should specify the following items:

- Truck model, identification number and manufacture year.
- Orders for spare parts of mast, hydraulic transmission unit, steering axle, motor, etc. shall indicate the manufacture number of these parts.
- Codes for Noblelift spare parts are shown in the table of parts manual. Please also pay attention to the description of supply status, order quantity, etc. (check the number listed in "Mark" column of the parts manual).

"Mark" Column:

The unmarked indicates the parts are in short supply cycle.

Number 1: supply as package. Indicating these that parts are small parts and seal parts, which are supplied in package unit and in short supply cycle.

Number 2: supply with constraints. Indicating that these spare parts are not in stock and will be prepared for production after receiving the order from customers, which are in long supply cycle.

Number 3: phasing-out supply. Indicating that these parts will be replaced by new parts due to technical improvements and the current stock will not be available when these parts run out. Please check the description of technical improvements notice.

Number 4: supply as assembly. Indicating that these parts are assembly parts defined by manufacture process, which cannot be supplied as a single part.

Number 5: check other tables.

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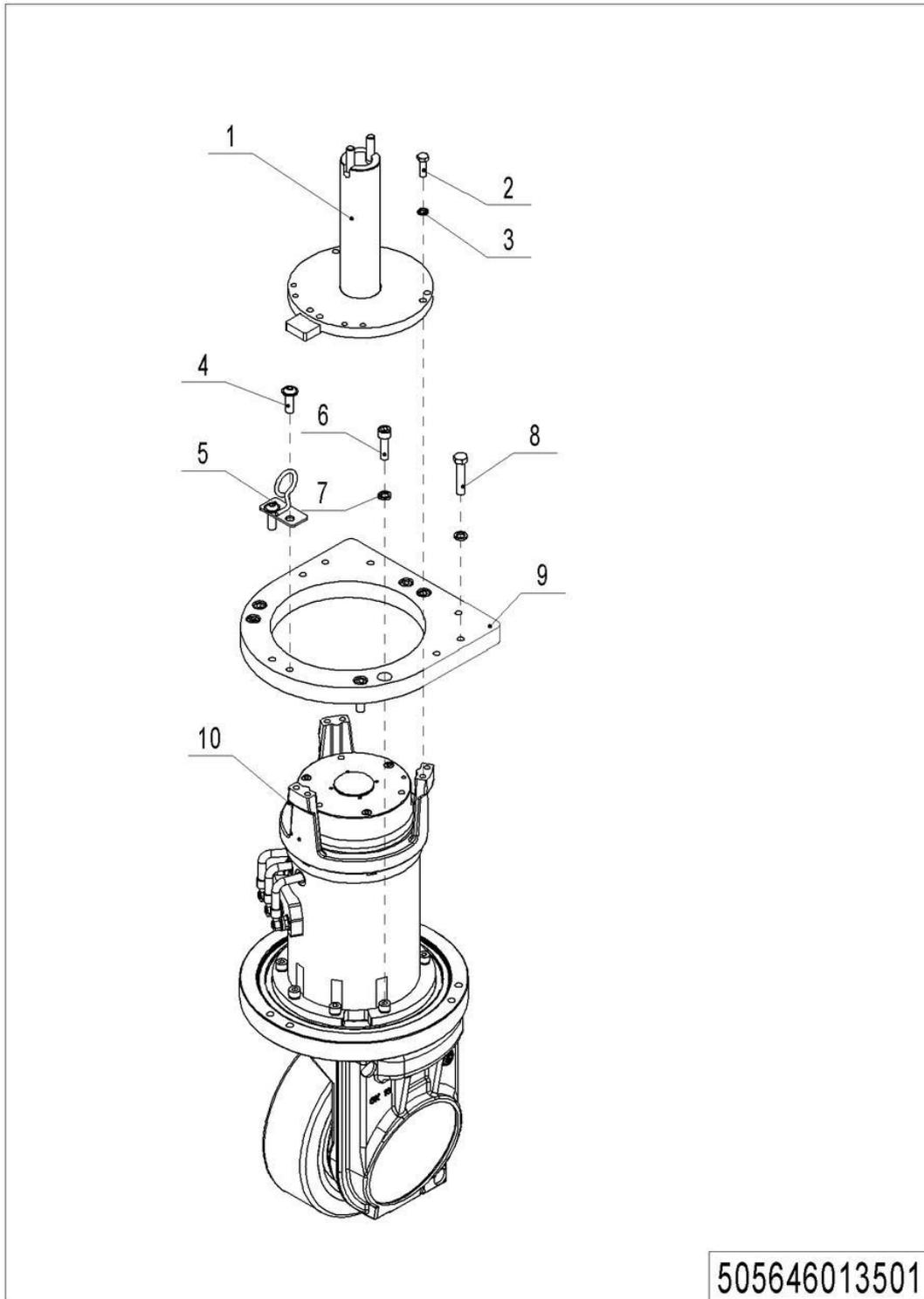
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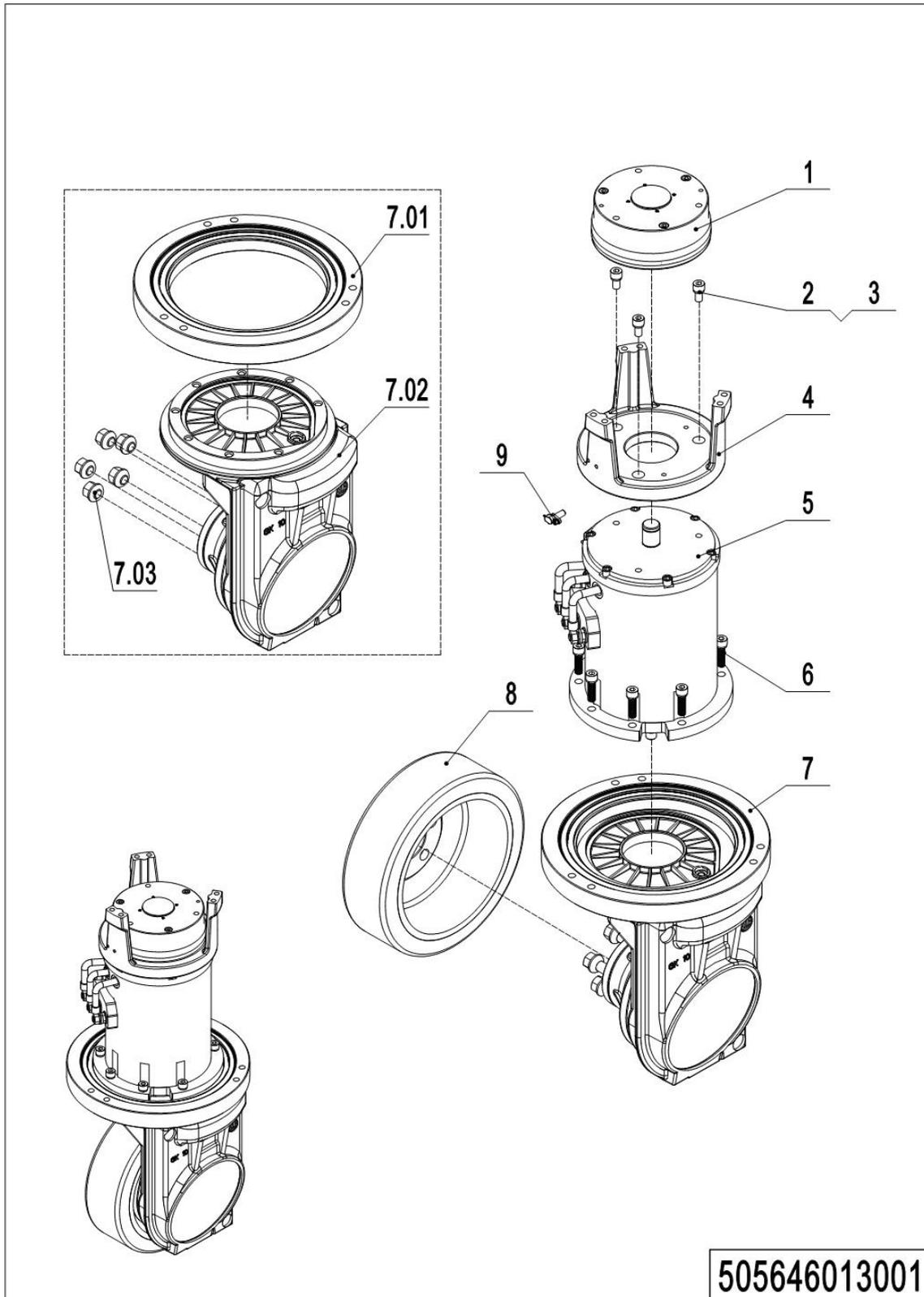
## Chapter 1: Drive System

### 01 Drive Unit-Manual Steering (505646013501)



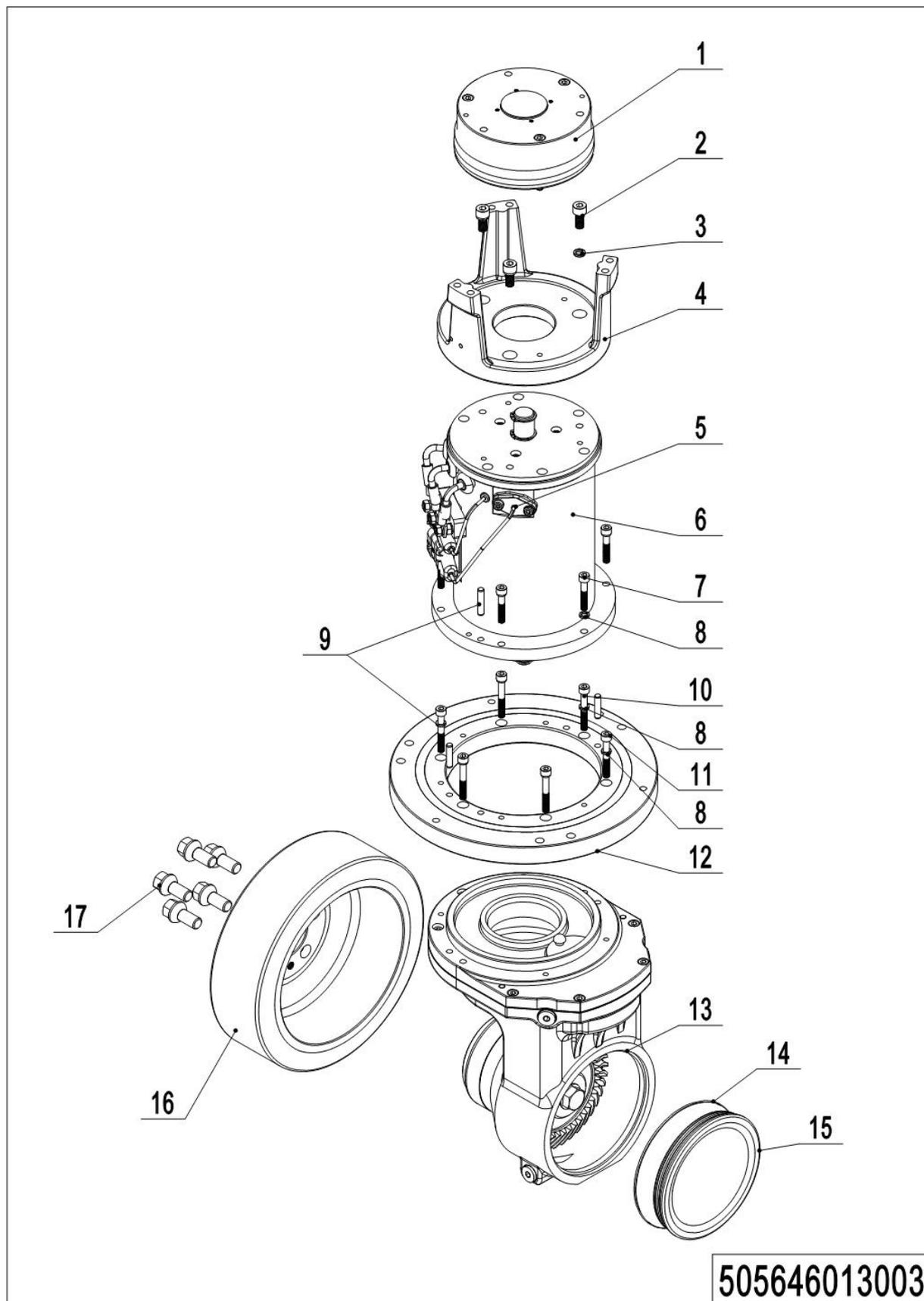
## 01 Drive Unit-Manual Steering (505646013501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505631210000		handle Spindle	1		
2	910100300023	1	Bolt	6		
3	910400500006	1	Spring Washer	6		
4	941100100004	1	Screw	2		
5	505613510000		Fixing Mount	1		
6	910200200078	1	Screw	6		
7	910400500007	1	Spring Washer	12		
8	910100300041	1	Bolt	6		
9	505613520002		Mounting Plate	1		
10	940900400006	5	Drive Unit GK	1		See 505646013001
	961000400008	5	Drive Unit	1		See 505646013001

**02 Drive Assembly GK 1.3kW (505646013001)**

## 02 Drive Assembly 1.3kW (505646013001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	961000400001		Brake	1		
2	910200200149	1	Screw	3		
3	910400500019	1	Spring Washer	11		
4	961000400002		Holder	1		
5	920900100085		Motor	1		
6	910200200138	1	Screw	8		
7	941000100005		Gearbox	1		
7.01	940998520074		Slewing Bearing	1		
7.02	940998520075		Gear Unit	1		
7.03	940998520076	1	Nut	5		
8	940300400005		Wheel $\Phi$ 230x70	1		
9	961000100017		Encoder	1		

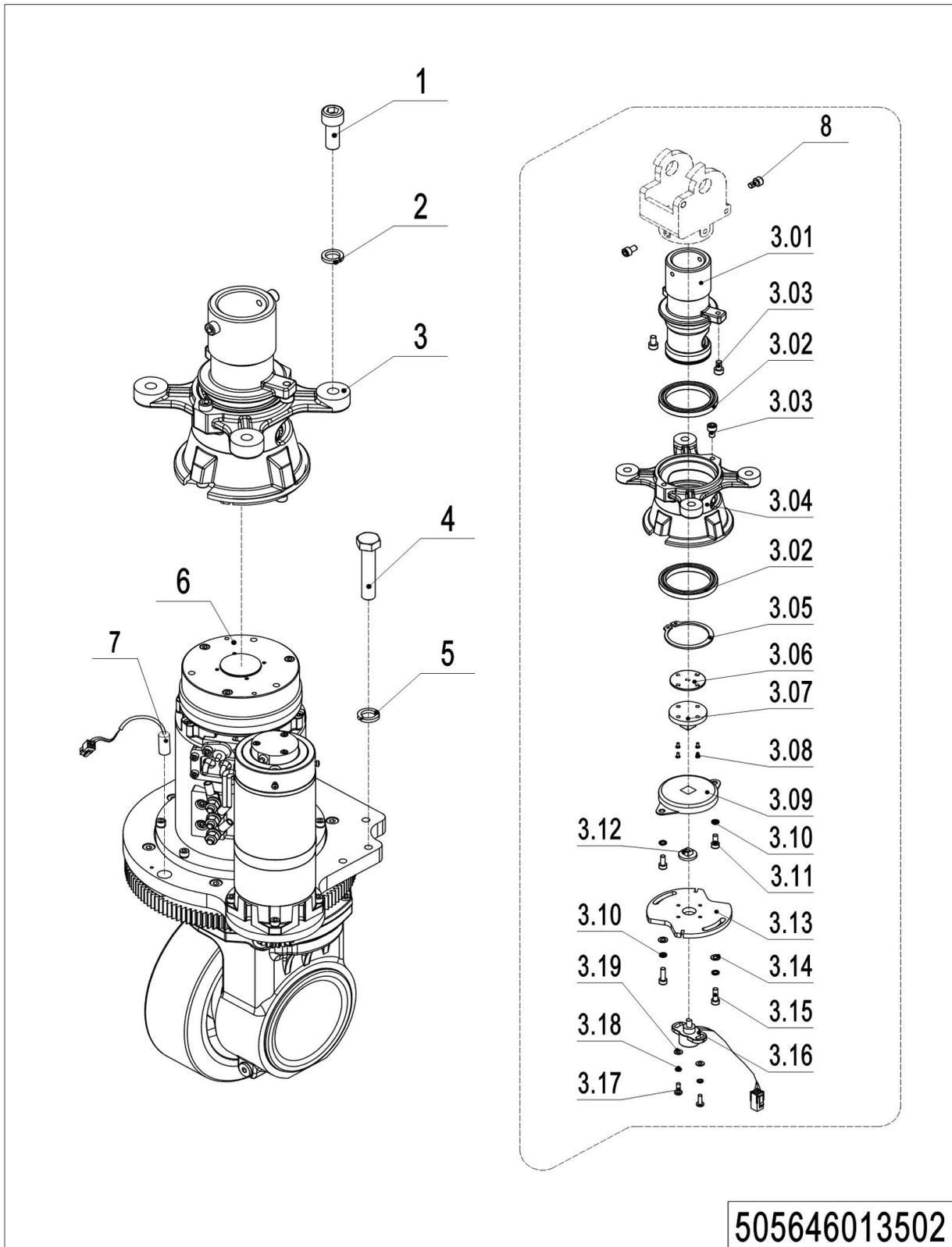
**03 Drive Assembly 1.3kw(505646013003)**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 03 Drive Assembly 1.3kw(505646013003)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	961000400001		Brake	1		
2	910200200149	1	Screw	3		
3	910400500019	1	Spring Washer	11		
4	961000400002		Holder	1		
5	961000400009		Encoder	1		
6	961000400003		Motor	1		
7	910200200143	1	Screw	6		
8	910400500018	1	Spring Washer	12		
9	910600100016		Cylindrical Pin	4		
10	910200200044	1	Screw	2		
11	910200200140	1	Screw	4		
12	961000400004		Slewing Bearing	1		
13	961000401000		Gearbox	1		
14	940998520018		Side Cap	1		
15	910800100095		O-Ring	2		
16	961000300001		Wheel $\Phi$ 230x75	1		
17	940998520029		Screw	5		

**04 Drive Unit-EPS (505646013502)**

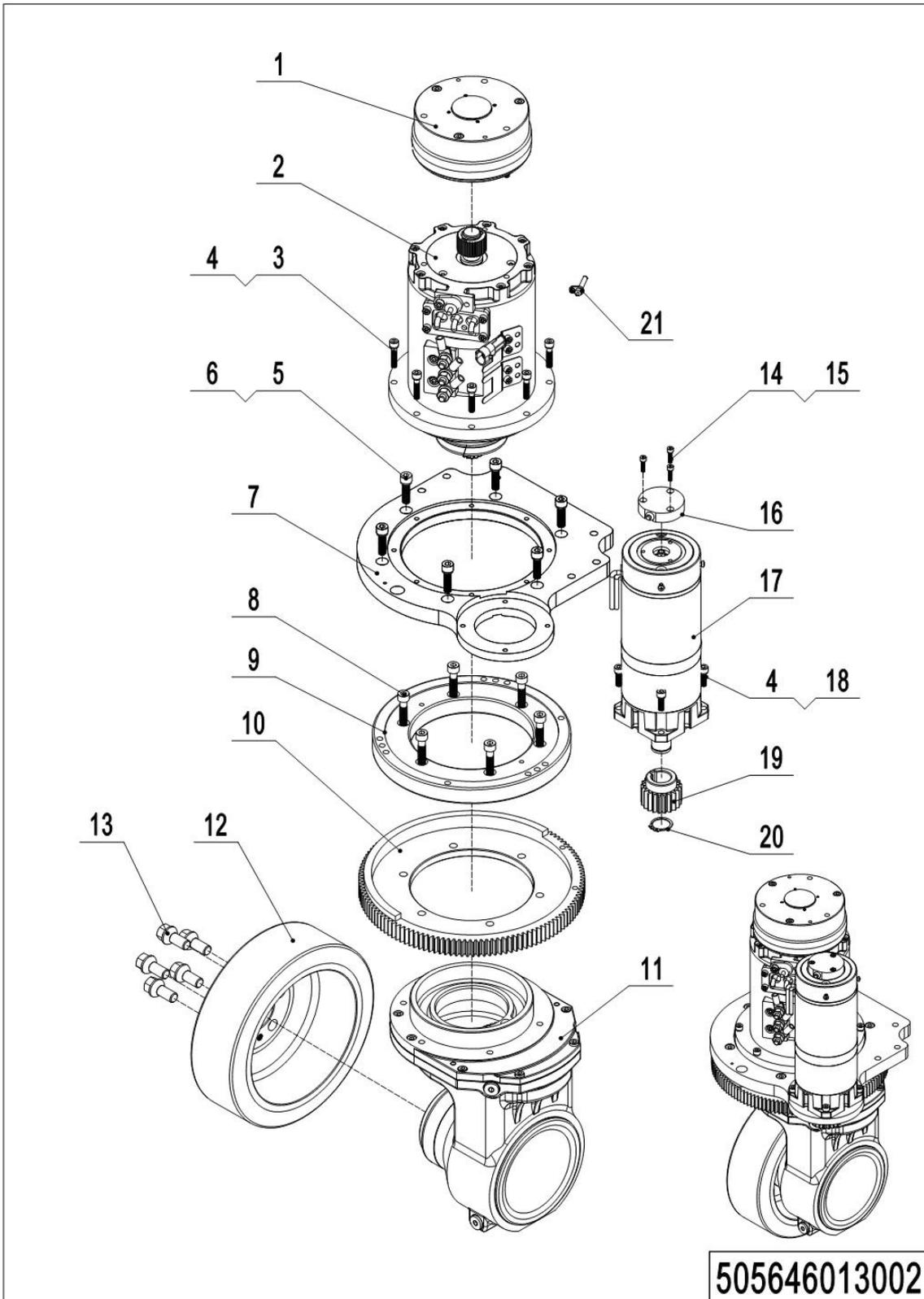


1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 04 Drive Unit-EPS (505646013502)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	910200200075	1	Screw	4		
2	910400100007	1	Flat Washer	4		
3	505631501001		Electronic Steering Assembly	1		
3.01	505631520001		Bracket	1		
3.02	910700200041		Bearing	2		
3.03	910200200032		Screw	3		
3.04	505631520002		Fixing Base	1		
3.05	910401300024		Circlip	1		
3.06	535931520004		Gasket	1		
3.07	505631520005		Link Block	1		
3.08	910200200014		Screw	4		
3.09	940801200001		Rotary Damper	1		
3.10	910400500004		Spring Washer	4		
3.11	910200200022		Screw	2		
3.12	505631520003		Link Block	1		
3.13	505731520001		Holder	1		
3.14	910400100004		Flat Washer	2		
3.15	910200200023		Screw	2		
3.16	505633010028		Potentiometer	1		
3.17	910200500022		Screw	2		
3.18	910400500003		Spring Washer	2		
3.19	910400100003		Flat Washer	2		
4	910100300041	1	Bolt	6		
5	910400500007	1	Spring Washer	6		
6	940900500012	5	Steering Unit	1		See 505646013002
7	921800100001		Sensor	1		
8	910200200185		Screw	2		

### 05 Drive Assembly 1.3kW (505646013002)



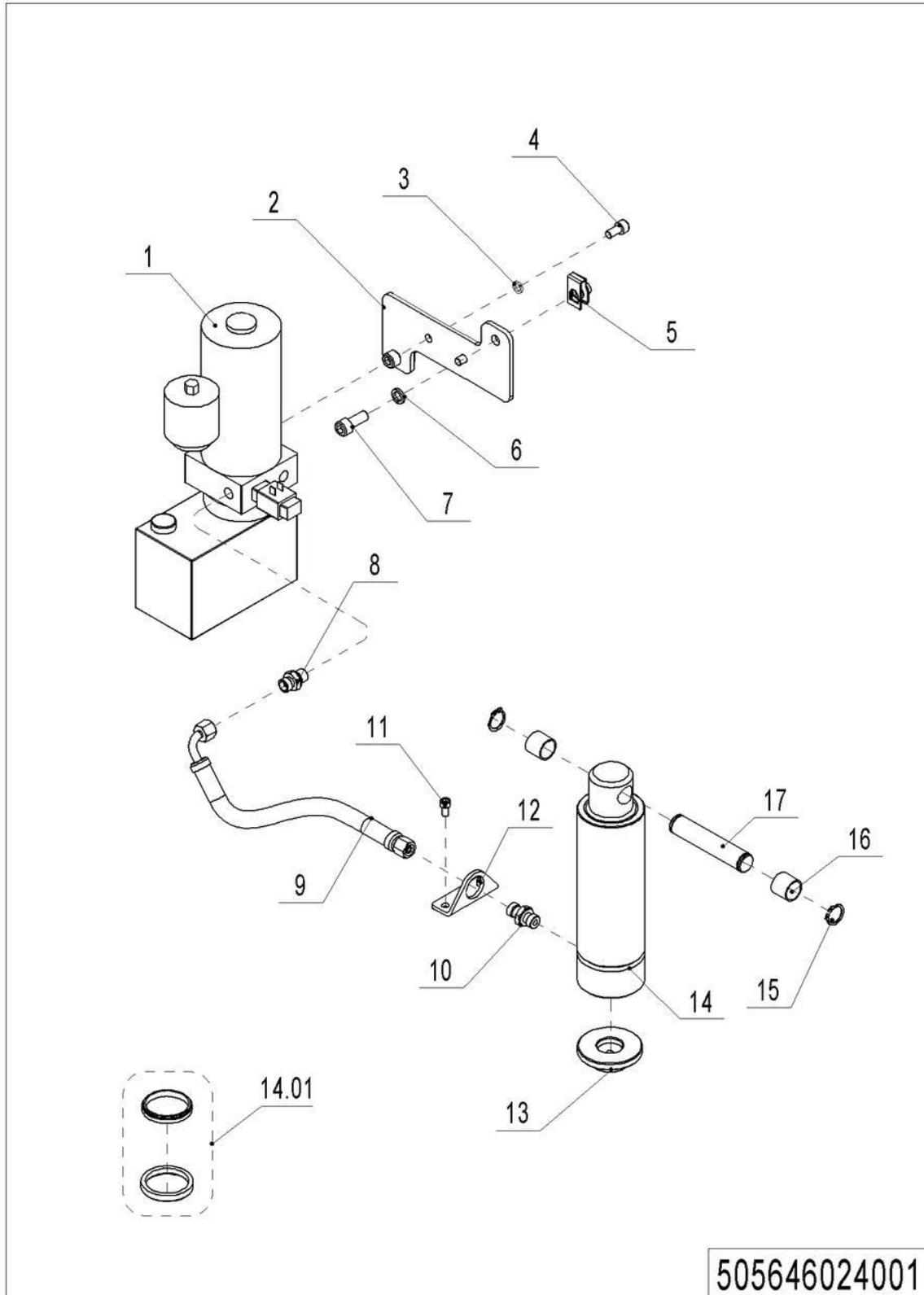
1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 05 Drive Assembly 1.3kW (505646013002)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	961000300005		Brake	1		
2	940998510018		Motor	1		
3	910200200143		Screw	8		
4	910400500018		Spring Washer	12		
5	910200200138		Screw	6		
6	910400500019		Spring Washer	6		
7	940998520039		Mounting Plate	1		
8	910200200144		Screw	6		
9	940998510008		Slewing Bearing	1		
10	940998520038		Gear	1		
11	940998510019		Steering Unit	1		
12	940300400005		WheelΦ230x70	1		
13	940998520029		Screw	5		
14	910200200011		Screw	3		
15	910400500016		Spring Washer	3		
16	961000500007		Sensor	1		
17	961000500006		Steering Unit	3		
18	910200200139		Screw	4		
19	940998520066		Gear	1		
20	910401300012		Circlip	1		
21	961000100018		Encoder	1		

## Chapter 2: Hydraulic System

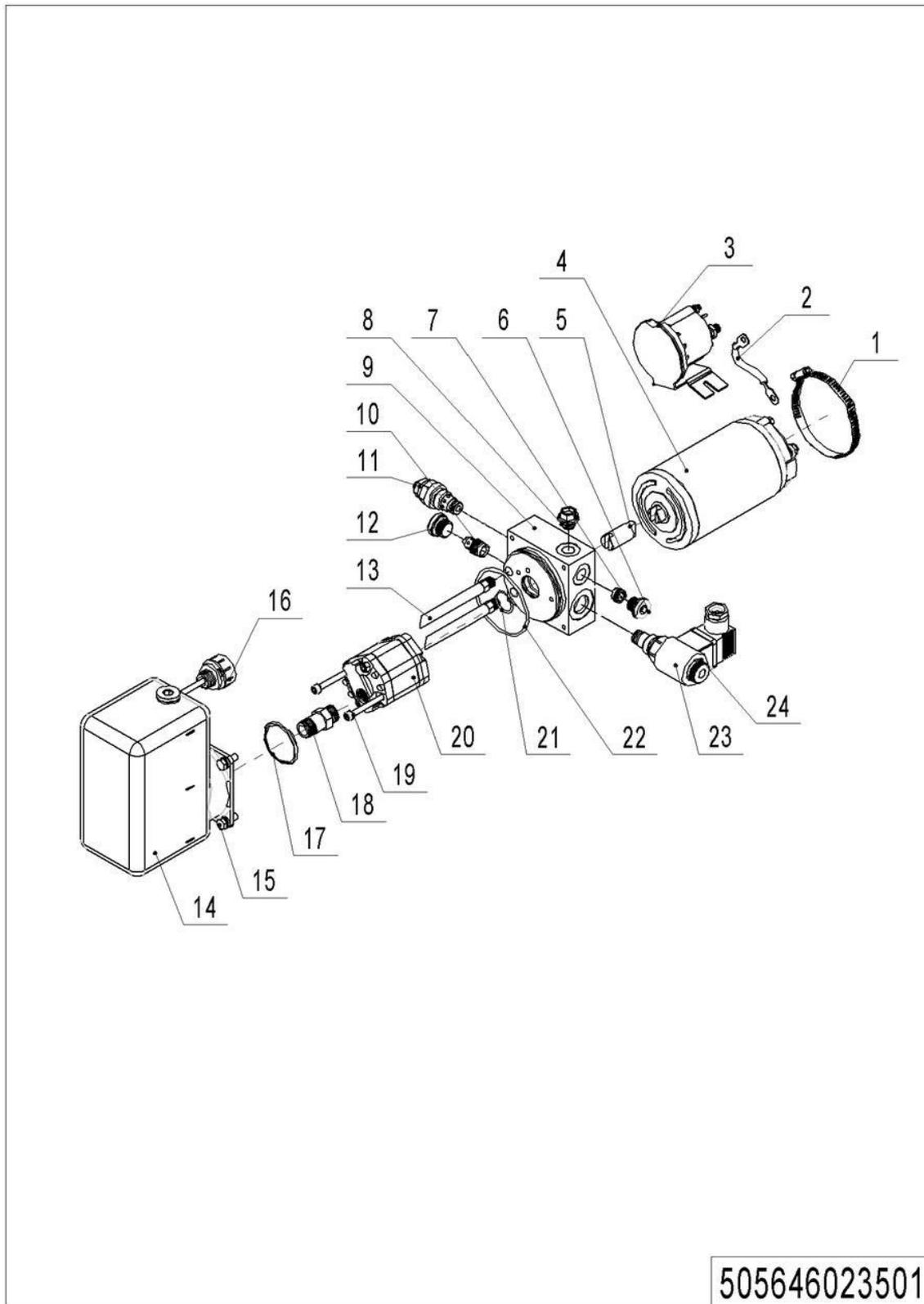
### 01 Hydraulic Components (505646024001)



1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Hydraulic Components (505646024001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	950900100036	5	Pump Unit	1		See 505646023501
2	505621520031		Mounting Plate	1		
3	910400500006	1	Spring Washer	2		
4	910200200055		Screw	2		
5	940400400003		Cage Nut	2		
6	910400500007		Spring Washer	2		
7	910200200076		Screw	2		
8	950400300003	1	Joint	1		
9	505624020003		Hose	1		
10	950400400001	1	Joint	1		
11	910200200033		Screw	2		
12	505621520027		Locating Rack	1		
13	505621520035		Cylinder Base	1		EU
13	505621520037		Cylinder Base	1		US
14	505624010000		Cylinder	1		
15	910401300011		Circlip	2		
16	940500100019		Bushing	2		
17	505638520033		Pin	1		
14.01	505698510005		Seal Kit	1		

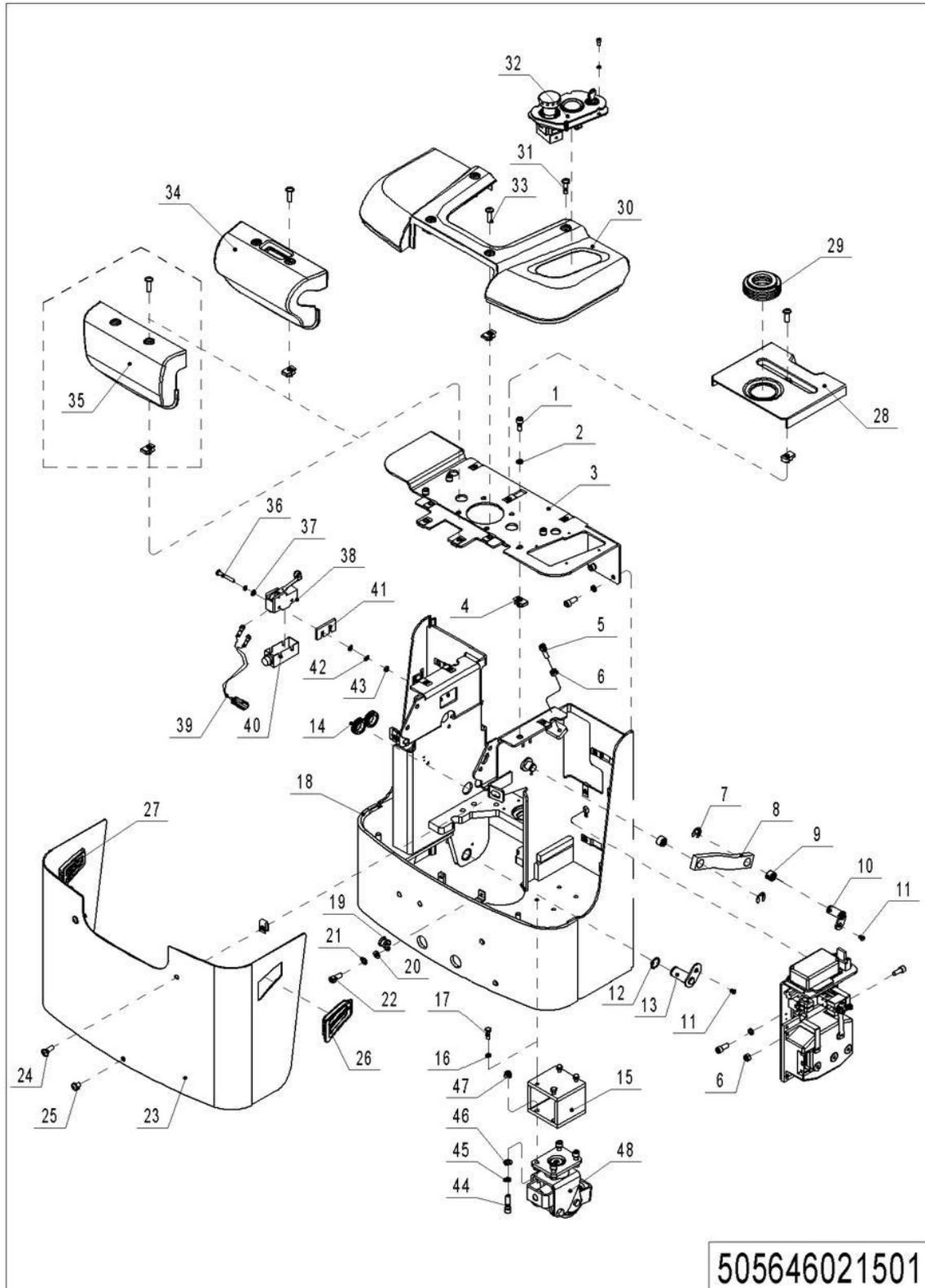
**02 Hydraulic Unit (505646023501)**

## 02 Hydraulic Unit (505646023501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505698520032		Hoop	1		
2	508098520007		Cables	1		
3	505698520034		Switch	1		
4	505698520035		Motor	1		
5	505698520036		Coupling	1		
6	505698520037		End Cap	1		
7	505698520038		Check Valve	1		
8	505698520039		End Cap	1		
9	505698520040		Valve Plate	1		
10	505698520041		Valve	1		
11	505698520042		Overflow Valve	1		
12	505698520043		End Cap	1		
13	505698520044		Pipe	2		
14	505698520045		Tank	1		
15	505698520046		Bolt	4		
16	505698520047		Cap-Tank	1		
17	505698520048		Filter	1		
18	505698520049		Oil Tube	1		
19	505698520050		Screw	2		
20	505698520051		Gear Pump	1		
21	505698520052		O-Ring	1		
22	505698520053		O-Ring	1		
23	505698520054		Magnetic Valve	1		
24	505698520055		Coil	1		

## Chapter 3: Truck Frame

### 01 Truck Frame (505646021501)



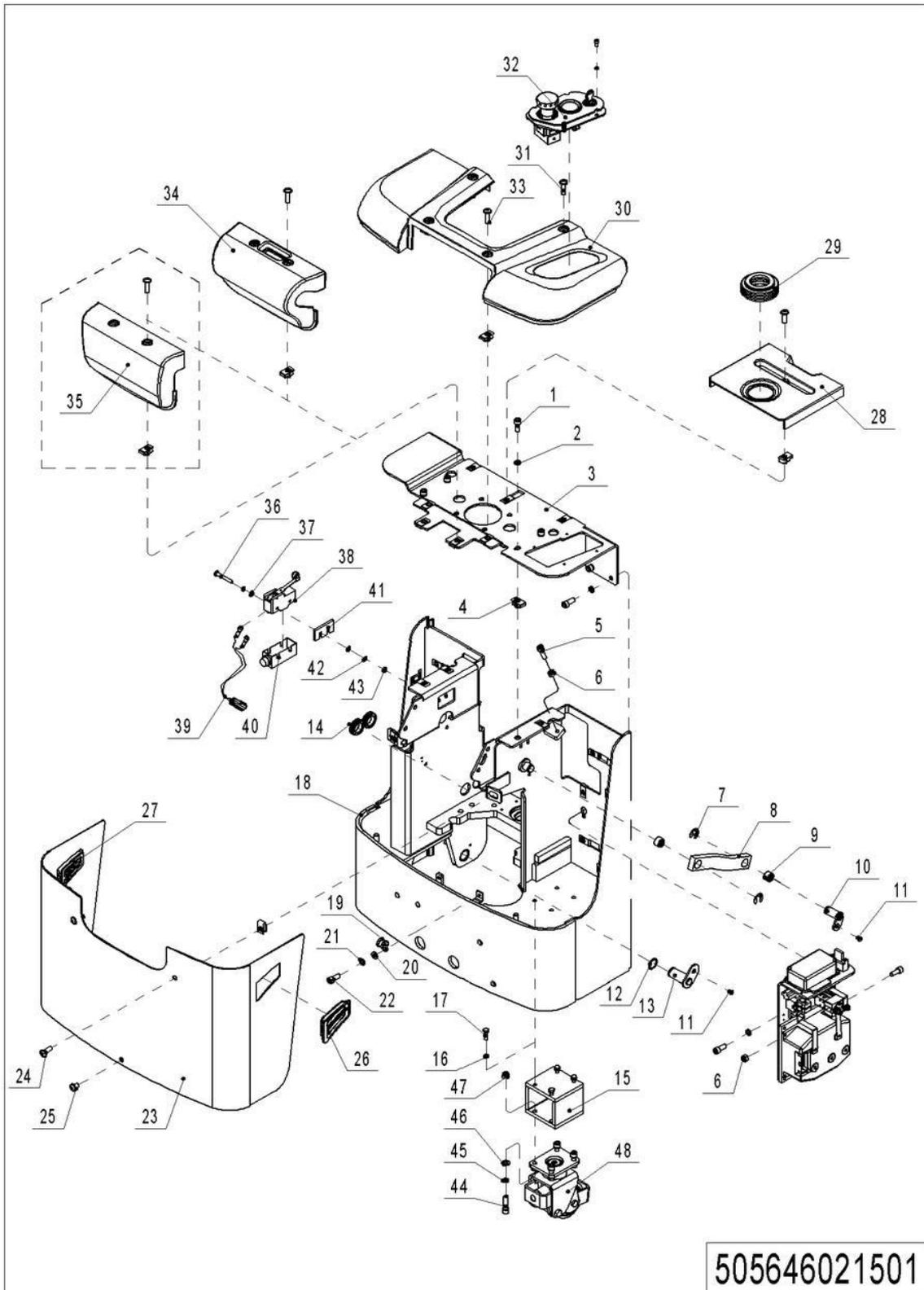
505646021501

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Truck Frame (505646021501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	910200200076	1	Screw	13		
2	910400500007		Spring Washer	25		
3	505621520029		Top Plate	1		
4	940400400003		Cage Nut	10		
5	910200200079	1	Screw	4		
6	910300100007	1	Nut	5		
7	910401700005	1	Circlip	2		
8	505621520020		Rod	2		
9	940500100017		Bushing	4		
10	505638510004		Pin	2		
11	910200400016	1	Screw	4		
12	910401300011	1	Circlip	2		
13	505621510002		Pin	2		
14	505621520036		Jacket	2		
15	505621520028		Wheel Mount	2		
16	910400500006	1	Spring Washer	8		
17	910100300023	1	Bolt	8		
18	505621510000		Chassis	1		
19	505621510005		Chassis	1		
19	951000100004		Hose Clamp	1		
20	910400100005	1	Flat Washer	1		
21	910400500005	1	Spring Washer	1		
22	910200200033	1	Screw	1		
23	505621510001		Apron	1		
24	941100100004	1	Screw	3		
25	941100100005	1	Screw	1		
26	505621510004		Vent Kit	1		
27	505621510003		Vent Kit	1		
28	505621520026		Protective Cover	1		
29	940600400001		Dust Cover	1		

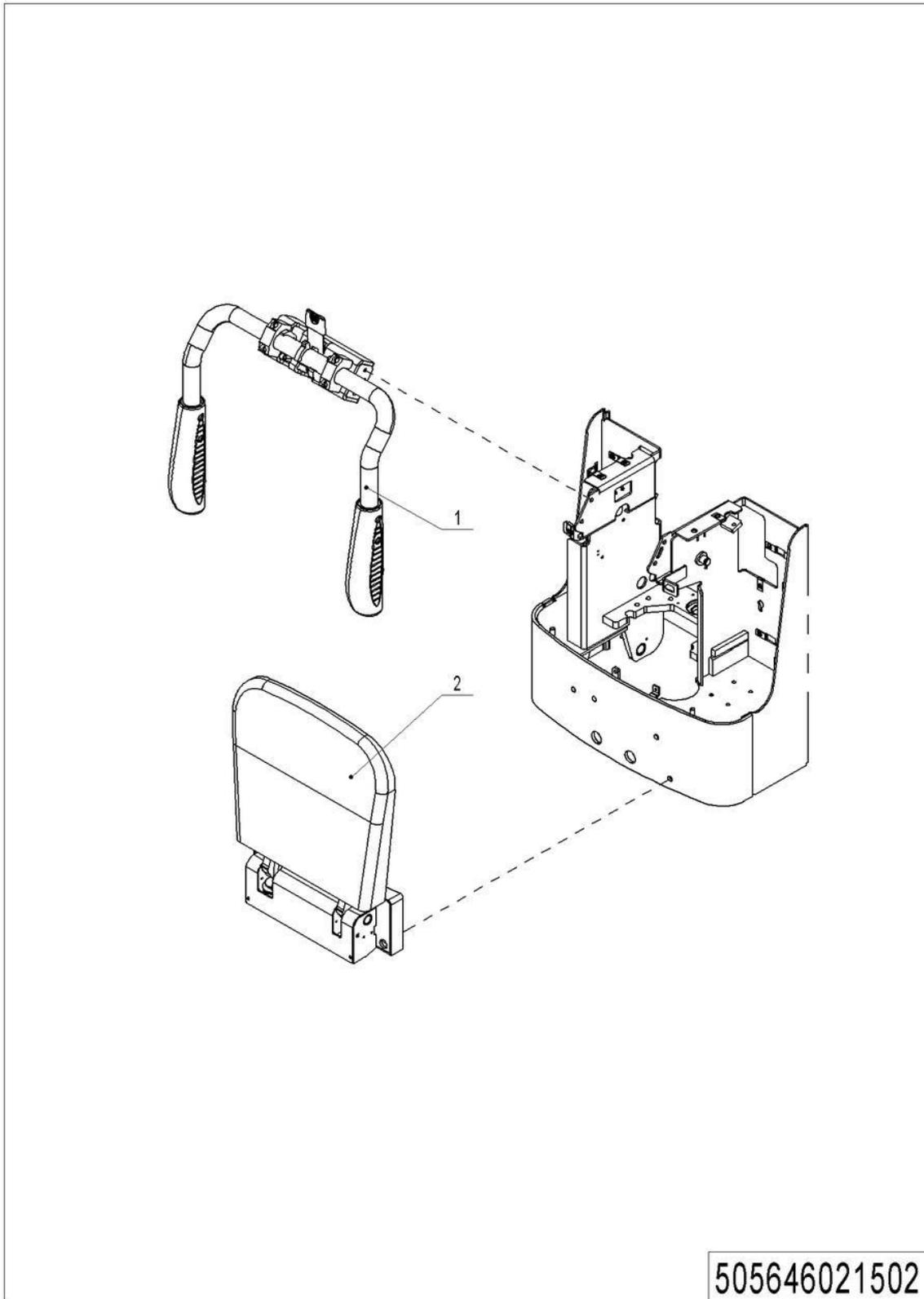
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1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

**01 Truck Frame (505646021501) Continuation**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Truck Frame (505646021501) Continuation

No.	Part Number	Mark	Description	Qty.	Substitute	Note
30	505621520024		Protective Cover	1		
31	941100100002		Screw	2		
32	505610001000		Indicator Kit	1		
33	941100100003		Screw	4		
34	505621520025		Protective Cover	1		
35	505621520043		Protective Cover	1		
36	910200500028	1	Screw	2		
37	910400100003	1	Flat Washer	4		
38	920200300003	2	Microswitch	1		
39	505633010001	2	Wire Harness	1		
40	920200300008	2	Protective Cover	1		
41	505621520030		Subplate	1		
42	910400500003	1	Spring Washer	4		
43	910300500001	1	Nut	2		
44	910200200079	1	Screw	8		
45	910400500007	1	Spring Washer	8		
46	910400100007	1	Flat Washer	8		
47	910300500005	1	Nut	8		
48	505616510000		Caster Assembly	2		<b>See 505646016501</b>

**02 Truck Frame (505646021502)**

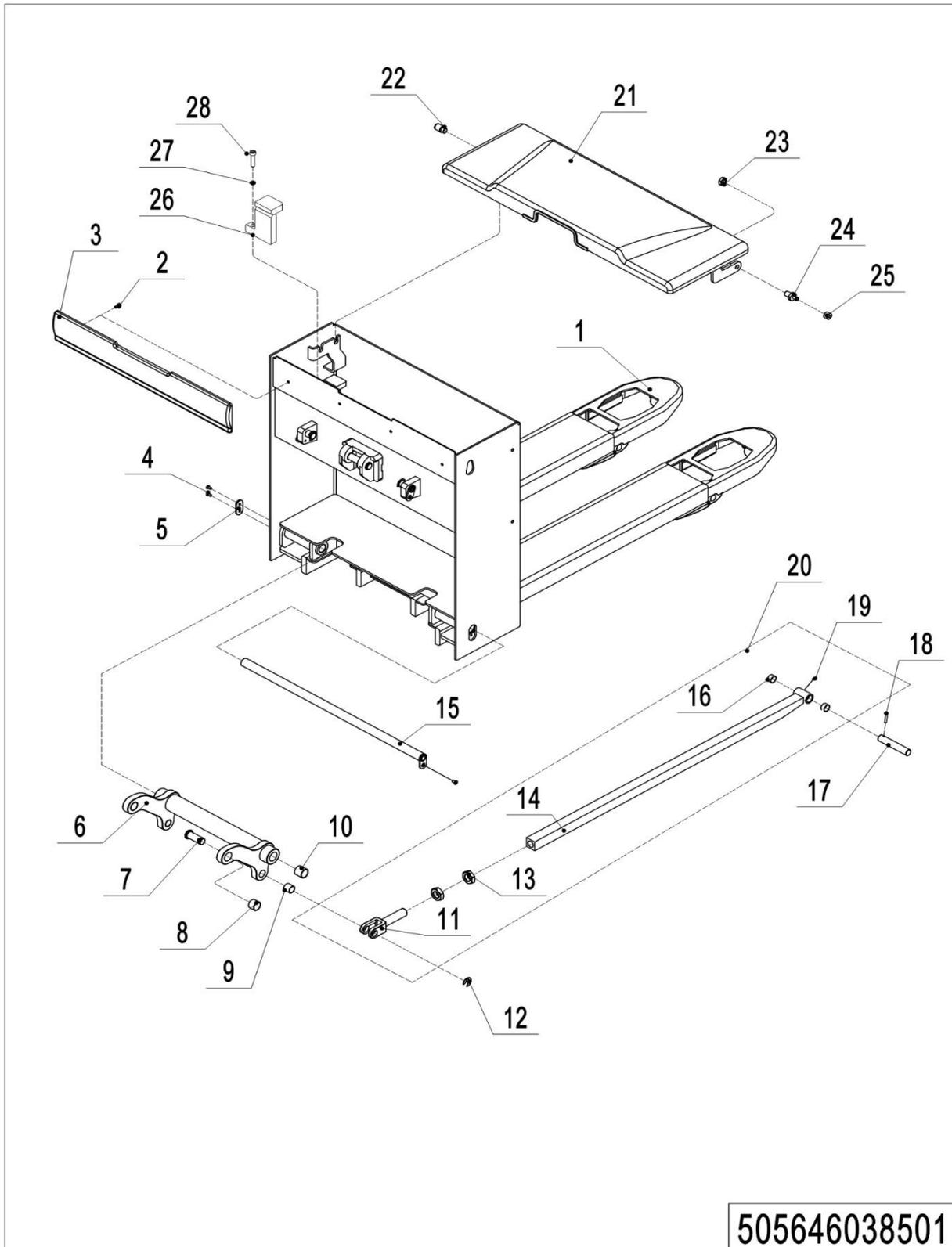
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## 01 Truck Frame (505646021502)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505698510012	5	Protective Arm Assembly	1		See 505646017501
2	505698510013	5	Footboard Kit	1		See 505646018001

## Chapter 4: Chassis

### 01 Chassis-EU (505646038501)

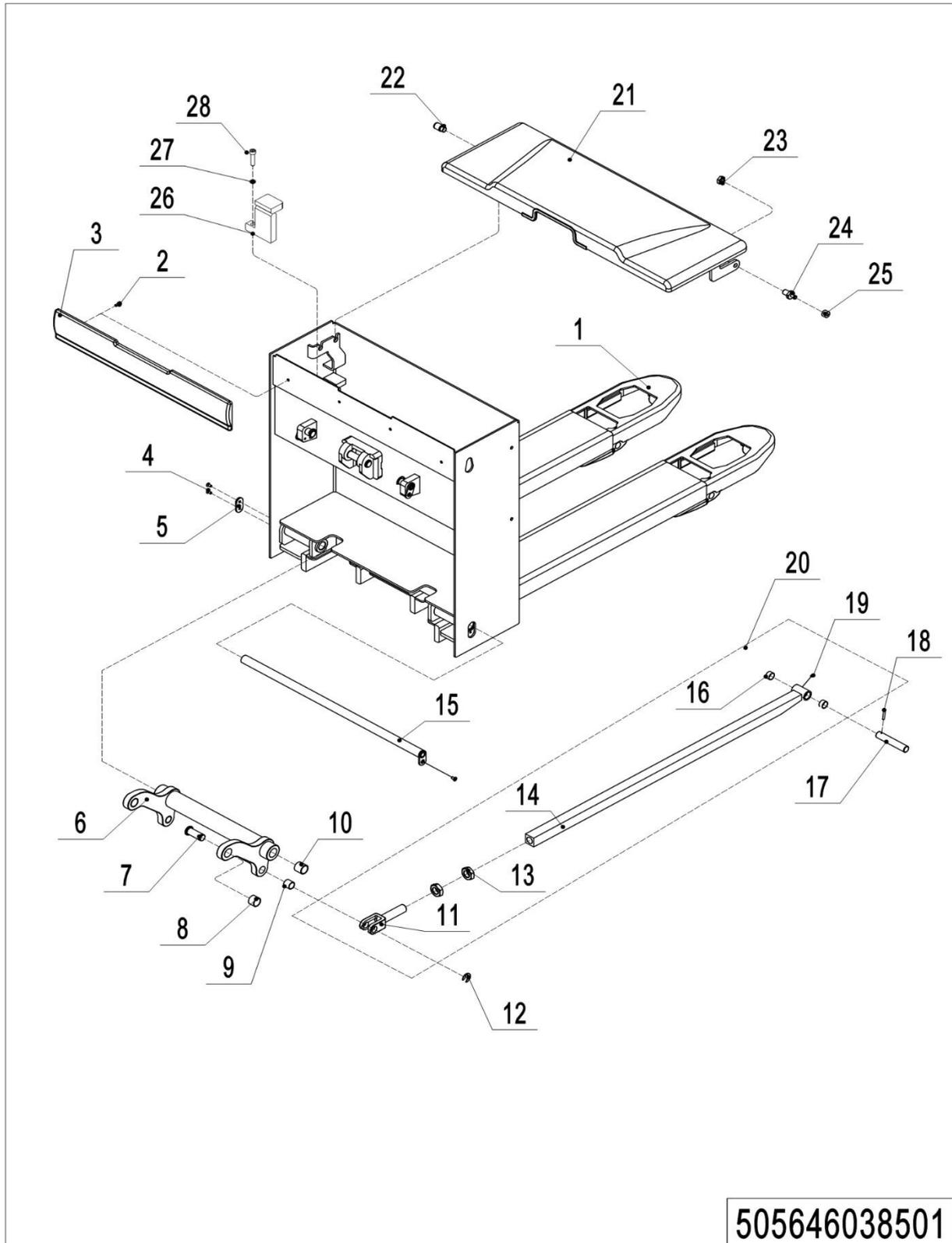


1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Chassis-EU (505646038501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505638510000		Chassis (EU540x1150)	1		
1	505638510024		Chassis (EU540x1220)	1		
1	505638510021		Chassis (EU540x1500)	1		
1	505638510020		Chassis (EU540x1800)	1		
1	505638510019		Chassis (EU540x2000)	1		
1	505638510008		Chassis (EU685x1220)	1		
1	505638510006		Chassis (EU685x1150)	1		
1	505638510017		Chassis (EU685x1500)	1		
1	505638510015		Chassis (EU685x1800)	1		
1	505638510013		Chassis (EU685x2000)	1		
2	910200300017	1	Screw	4		
3	505638520028		Protective Cover	1		
4	910200400016	1	Screw	5		
5	505638520031		Fixing Plate	1		
6	505638510001		Rise Arm	1		
6	505638510007		Rise Arm	1		
7	505638520034		Pin	2		
8	940500100027		Bushing	2		
9	940500100019		Bushing	2		
10	940500100032		Bushing	2		
11	505638520035		Push Rod Fork	2		
12	910401700005	1	Circlip	2		
13	910300400010		Nut	4		
14	505638510002		Push Rod (1150, EU)	2		
14	505638510009		Push Rod (1220, EU)	2		
14	505638510018		Push Rod (1500, EU)	2		
14	505638510016		Push Rod (1800, EU)	2		
14	505638510014		Push Rod (2000, EU)	2		
15	505638510003		Pin	1		
16	940500100012		Bushing	4		

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

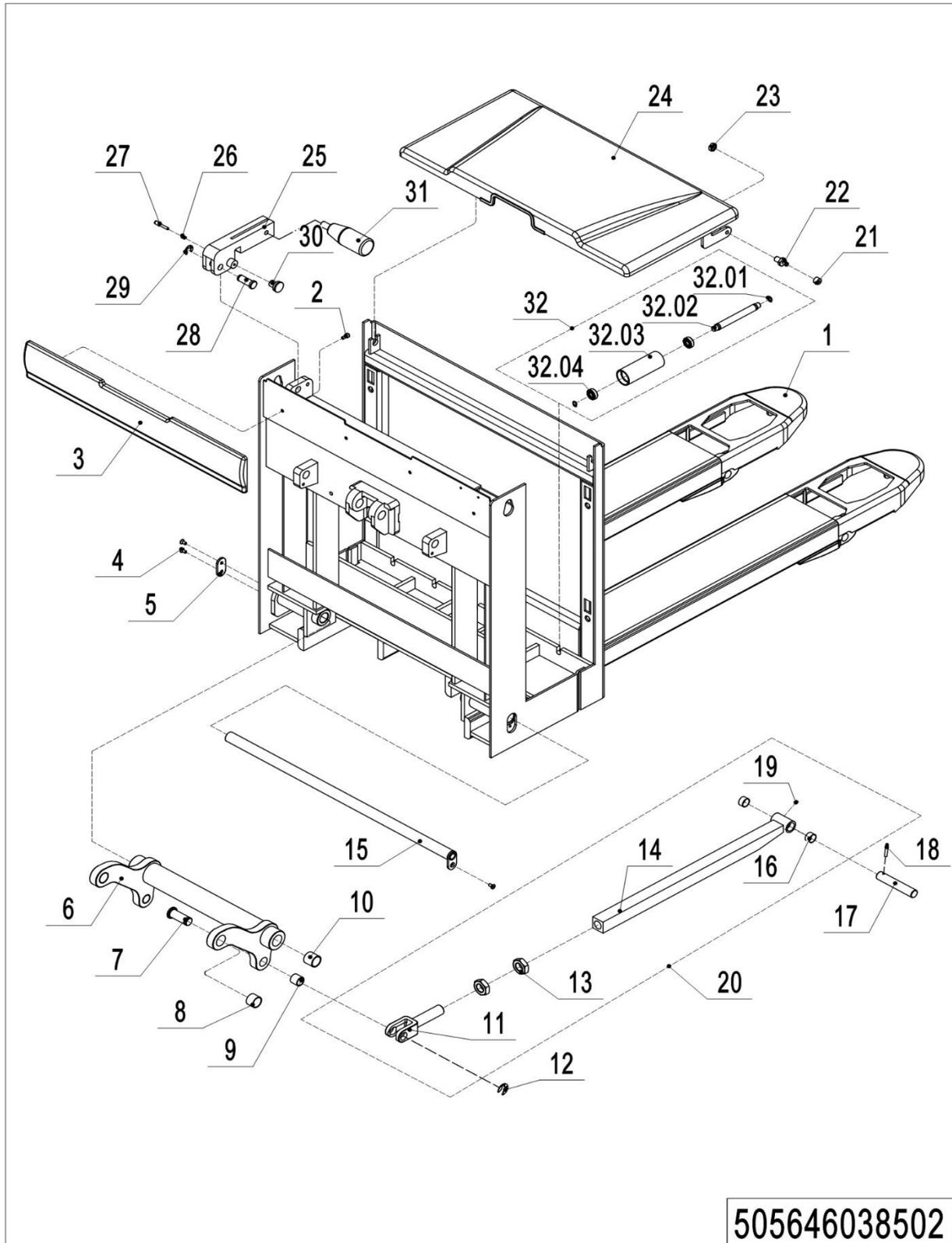
**01 Chassis-EU (505646038501) Continuation**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Chassis-EU (505646038501) Continuation

No.	Part Number	Mark	Description	Qty.	Substitute	Note
17	505638520037		Axle	2		
18	910600400027	1	Spring Pin	2		
19	911200100001		Oil Cup	2		
20	505698510006		Push Rod Kit (1150, EU)	2		
20	505698510011		Push Rod Kit (1220, EU)	2		
20	505698510015		Push Rod Kit (1500, EU)	2		
20	505698510016		Push Rod Kit (1800, EU)	2		
20	505698510017		Push Rod Kit (2000, EU)	2		
21	505621010000		Cell Cover	1		
22	505621020003		Crash Pad	1		
23	910300300005	1	Nut	2		
24	505621020005		Axle	2		
25	505621020004		Crash Pad	2		
26	505638510005		Stop Plate	1		

## 02 Chassis-EU (Side Extraction Battery) (505646038502)

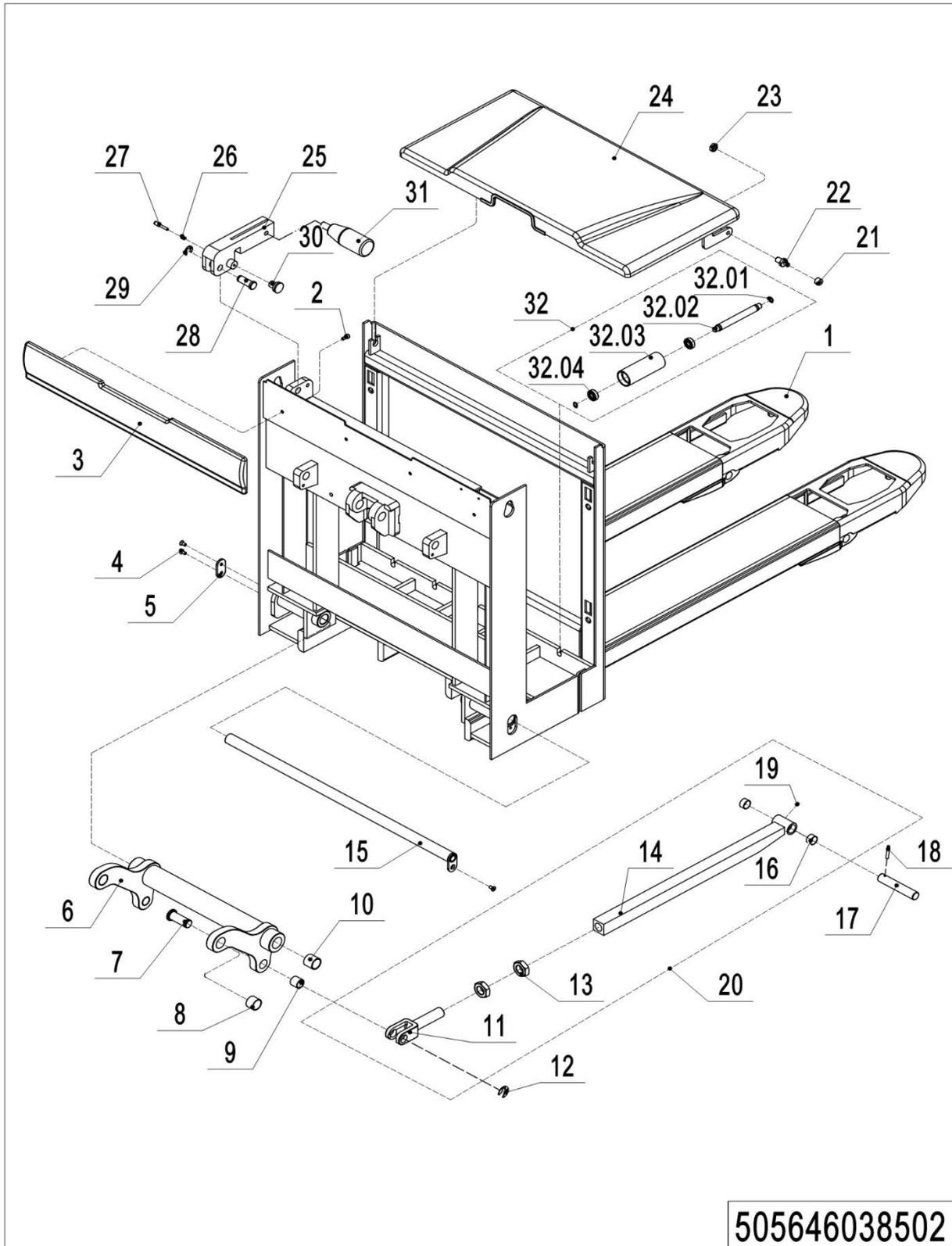


1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 02 Chassis-EU (Side Extraction Battery) (505646038502)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505638510025		Chassis (EU540x1150)	1		Side Extraction Battery
1	505638510031		Chassis (EU540x1220)	1		Side Extraction Battery
1	505638510033		Chassis (EU540x1500)	1		Side Extraction Battery
1	505638510035		Chassis (EU540x1800)	1		Side Extraction Battery
1	505638510037		Chassis (EU540x2000)	1		Side Extraction Battery
1	505638510032		Chassis (EU685x1150)	1		Side Extraction Battery
1	505638510029		Chassis (EU685x1220)	1		Side Extraction Battery
1	505638510039		Chassis (EU685x1500)	1		Side Extraction Battery
1	505638510040		Chassis (EU685x1800)	1		Side Extraction Battery
1	505638510041		Chassis (EU685x2000)	1		Side Extraction Battery
2	910200300017	1	Screw	4		
3	505638520028		Protective Cover	1		
4	910200400016	1	Screw	5		
5	505638520031		Fixing Plate	1		
6	505638510001		Rise Arm	1		
6	505638510007		Rise Arm	1		
7	505638520034		Pin	2		
8	940500100027		Bushing	2		
9	940500100019		Bushing	2		
10	940500100032		Bushing	2		
11	505638520035		Push Rod Fork	2		
12	910401700005	1	Circlip	2		
13	910300400010		Nut	4		
14	505638510027		Push Rod (1150, EU)	2		Side Extraction Battery
14	505638510030		Push Rod (1220, EU)	2		Side Extraction Battery
14	505638510034		Push Rod (1500, EU)	2		Side Extraction Battery
14	505638510036		Push Rod (1800, EU)	2		Side Extraction Battery
14	505638510038		Push Rod (2000, EU)	2		Side Extraction Battery
15	505638510003		Pin	1		
16	940500100012		Bushing	4		

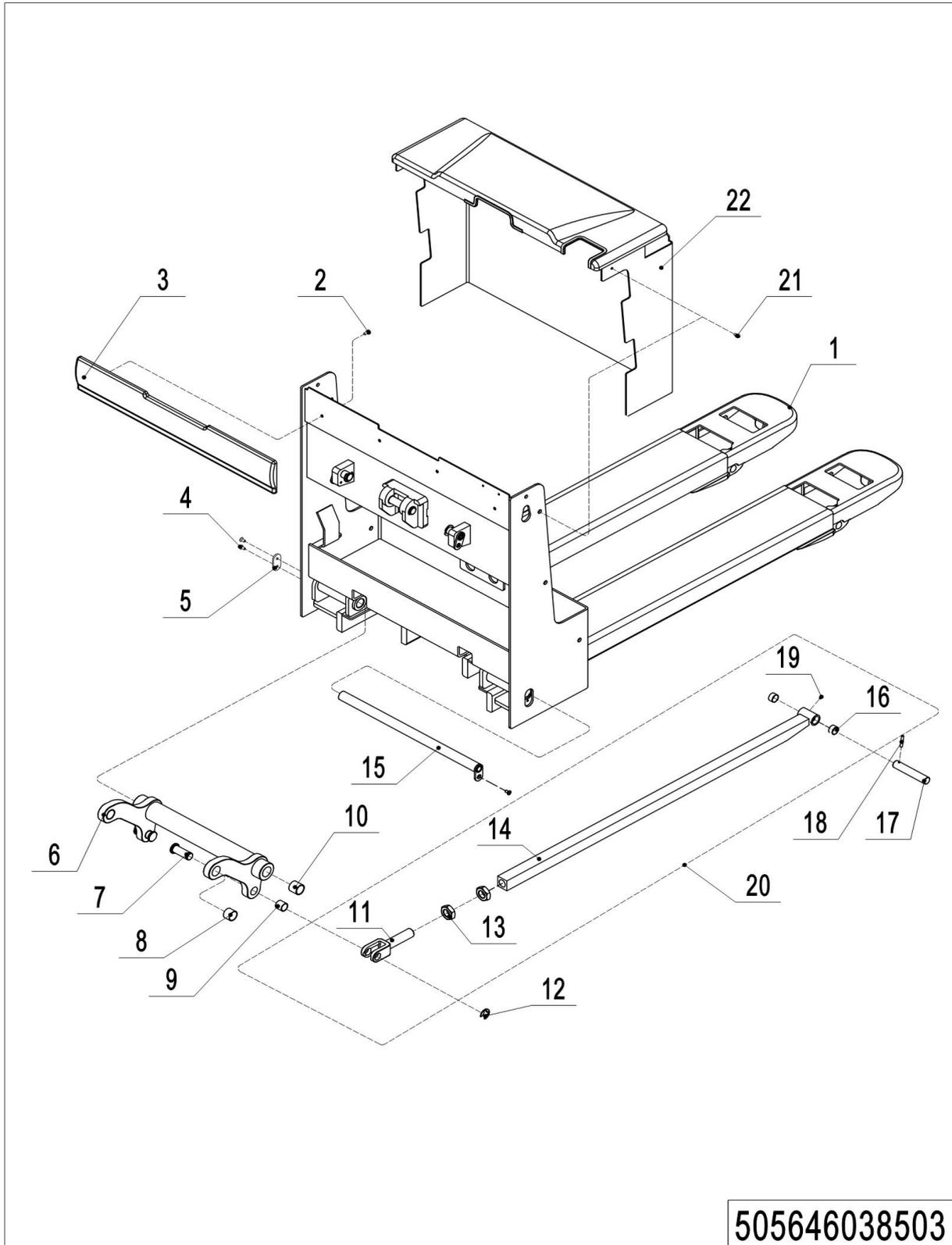
1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

**02 Chassis-EU (Side Extraction Battery) (505646038502) Continuation**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 02 Chassis-EU (Side Extraction Battery) (505646038502) Continuation

No.	Part Number	Mark	Description	Qty.	Substitute	Note
17	505638520037		Axle	2		
18	910600400027	1	Spring Pin	2		
19	911200100001		Oil Cup	2		
20	505698510008		Push Rod Kit (1150, EU)	2		Side Extraction Battery
20	505698510009		Push Rod Kit (1220, EU)	2		Side Extraction Battery
20	505698510018		Push Rod Kit (1500, EU)	2		Side Extraction Battery
20	505698510019		Push Rod Kit (1800, EU)	2		Side Extraction Battery
20	505698510020		Push Rod Kit (2000, EU)	2		Side Extraction Battery
21	505621020004		Crash Pad	2		
22	505621020005		Axle	2		
23	910301700001	1	Nut	2		
24	505621010002		Cell Cover	1		
25	505638510026		Lock	1		
26	505638520122		Screw	1		
27	940400500001		Spring	1		
28	505638520117		Pin	1		
29	910401700004	1	Circlip	1		
30	505638520123		Handle	1		
31	911000400001		Tiller	1		
32	505638510028		Roller	5		
32.01	910401300006	1	Circlip	10		
32.02	505638520119		Axle	5		
32.03	505638520120		Roller	5		
32.04	910700200017		Bearing	10		

**03 Chassis-US (505646038503)**

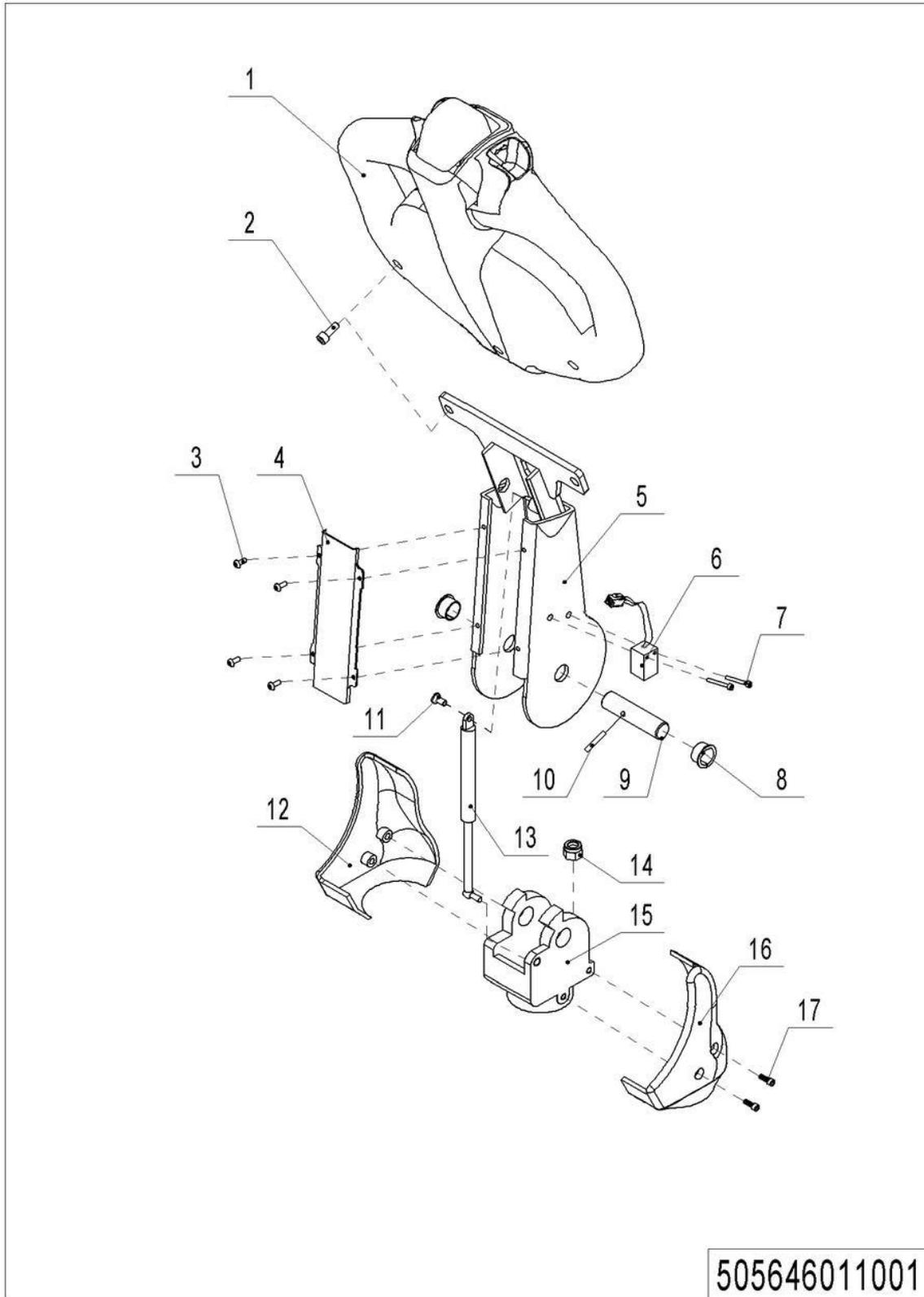
1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 03 Chassis-US (505646038503)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505638510010		Chassis (US540x1220)	1		
1	505638510012		Chassis (US685x1220)	1		
2	910200300017	1	Screw	4		
3	505638520028		Protective Cover	1		
4	910200400016	1	Screw	5		
5	505638520031		Fixing Plate	1		
6	505638510001		Rise Arm	1		
6	505638510007		Rise Arm	1		
7	505638520034		Pin	1		
8	940500100027		Bushing	2		
9	940500100019		Bushing	2		
10	940500100032		Bushing	2		
11	505638520035		Push Rod Fork	2		
12	910401700005	1	Circlip	2		
13	910300400010		Nut	4		
14	505638510011		Push Rod (1220, US)	2		
15	505638510003		Pin	1		
16	940500100012		Bushing	4		
17	505638520037		Axle	2		
18	910600400027	1	Spring Pin	2		
19	911200100001		Oil Cup	2		
20	505698510007		Push Rod Kit (1220, US)	2		
21	910200300016	1	Screw	2		
22	505621010001		Cell Cover	1		

## Chapter 5: Steering System, Braking System, Wheels

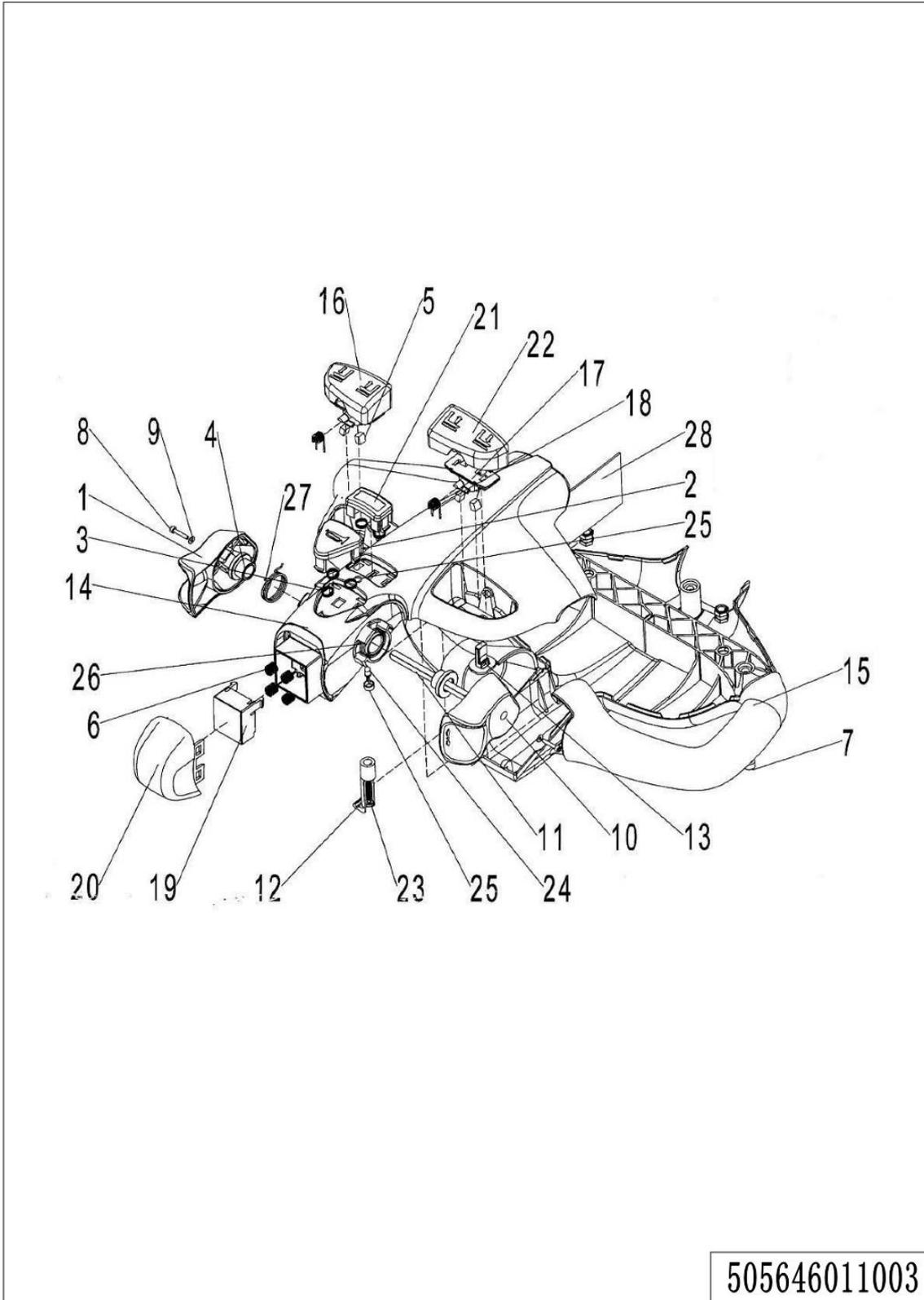
### 01 Tiller Unit (505646011001)



1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Tiller Unit (505646011001)

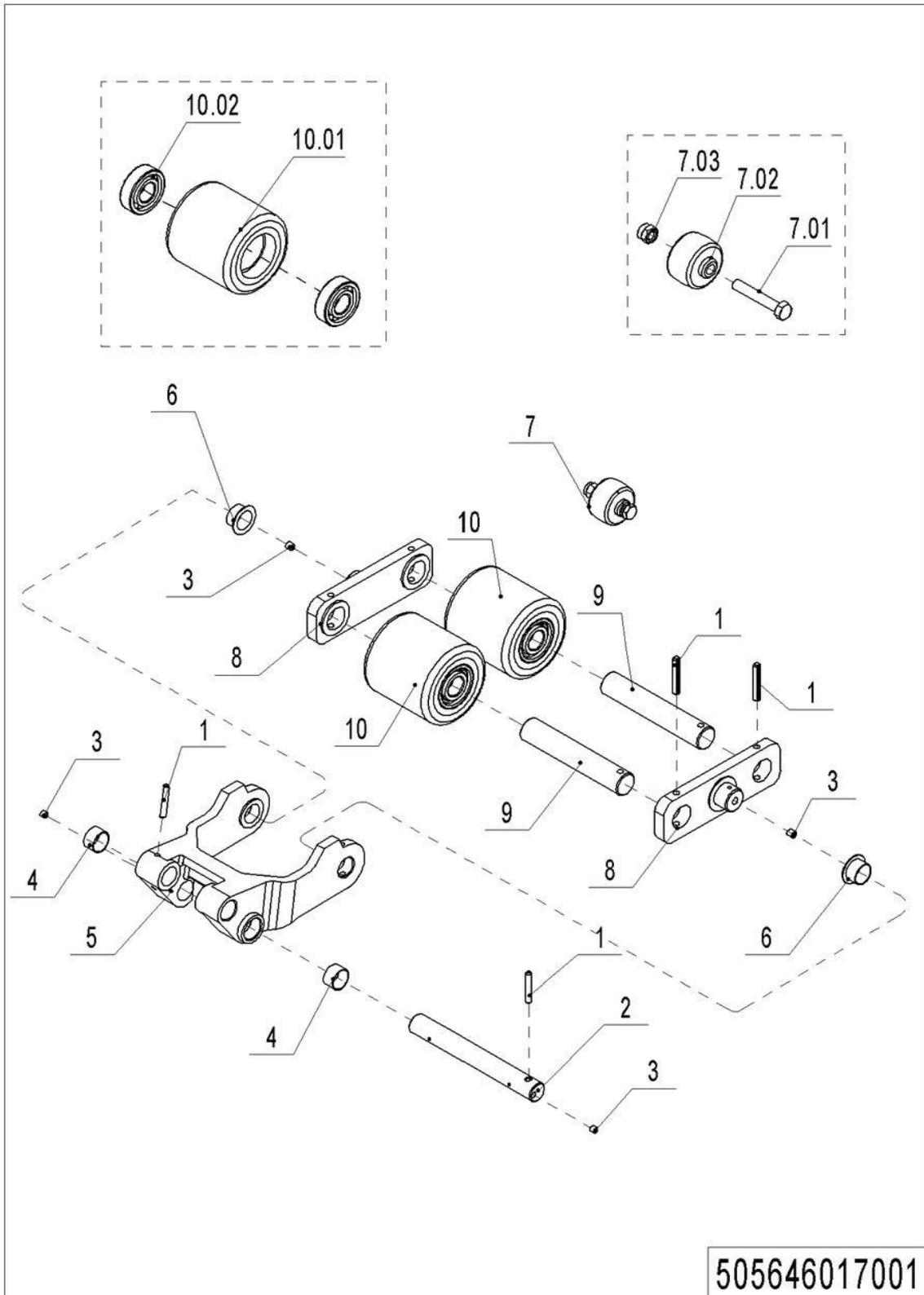
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	922100100001		Tiller	1		See 505646011003
1	922100100012		Tiller	1		See 505646011002
2	910200200058	1	Screw	2		
3	910200300005	1	Screw	4		
4	505611020013		Close Plate	1		Long handle
4	505611020006		Close Plate	1		Short handle
5	505611010001		Tiller	1		Long handle
5	505611010000		Tiller	1		Short handle
6	505633510000	2	Proximity Switch	1		
7	910200500015	1	Screw	2		
8	940500200002		Bushing	2		
9	505611020008		Axle	1		
10	910600400013	1	Spring Pin	1		
11	910200200057	1	Screw	1		
12	505611020010		Protective Cover	1		
13	940400100003		Air Spring	1		Long handle
13	940400100002		Air Spring	1		Short handle
14	910300500005	1	Nut	2		
15	505611020009		Bracket	1		
16	505611020011		Protective Cover	1		
17	910200300016	1	Screw	4		

**02 Control Handle (505646011003)**

## 02 Control Handle (505646011003)

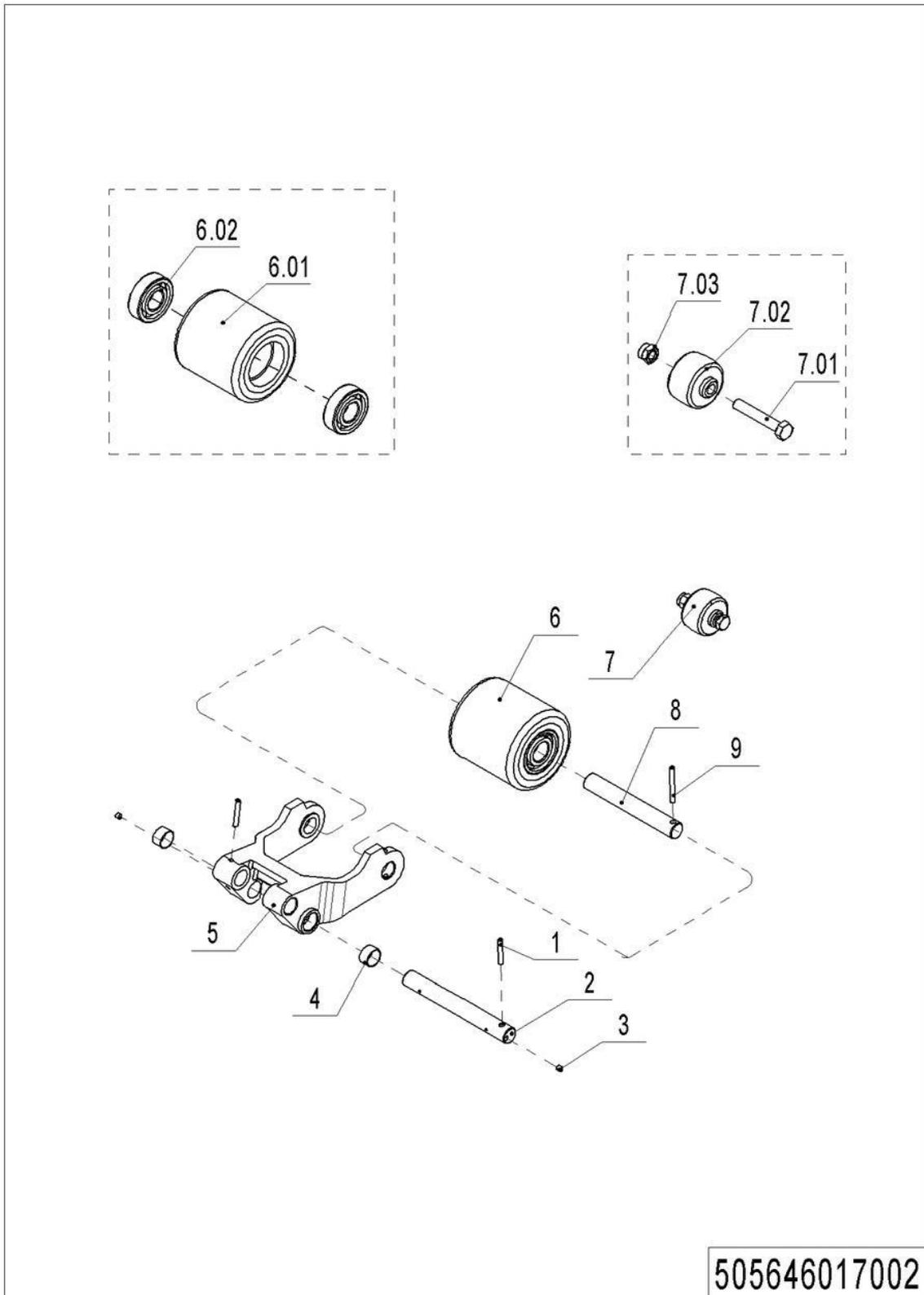
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505698520001		Traction lever	1		
2	505698520002		Horn Button	1		
3	505698520003		Spring	5		
4	505698520004		Sleeve	2		
5	505698520005		Magnet	4		
6	505698520006		Spring	4		
7	505698520007		Screw	3		
8	505698520008		Screw	2		
9	505698520009		Washer	2		
10	505698520010		Traction lever	1		
11	505698520011		Axle-Traction lever	1		
12	505698520012		Clamp	1		
13	505698520013		Sensor	2		
14	505698520014		Handle Cap	1		
15	505698520015		Handle Cap	1		
16	505698520016		Button cap	1		
17	505698520017		Fixing Base	2		
18	505698520018		Torsional Spring	2		
19	505698520019		Pedestal	1		
20	505698520020		Button Cap-	1		
21	505698520021		Button Cap	1		
22	505698520022		Button Cap	1		
23	505698520023		Screw	1		
24	505698520024		Light	1		
25	505698520025		Lamp Holder	1		
26	505698520026		Torsional Spring	1		
27	505698520027		Torsional Spring	1		
28	505698520028		circuit Board	1		

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

**03 Load Wheel (Tandem) (505646017001)**

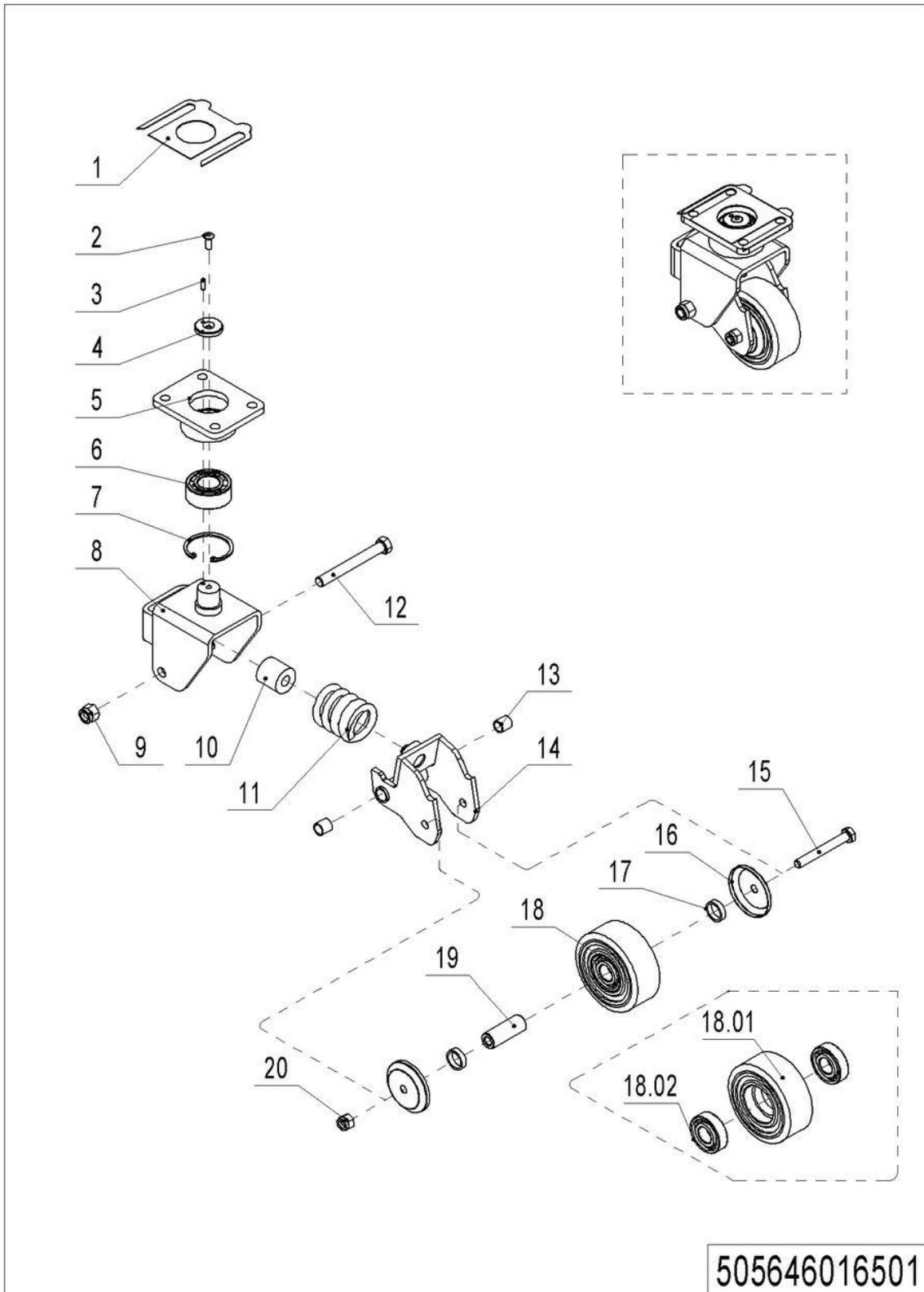
## 03 Load Wheel (Tandem) (505646017001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	910600400027	1	Spring Pin	8		
2	505638520038		Pin	2		
3	911200100001		Oil Cup	2		
4	940500100012		Bushing	4		
5	505638520036		Riser	2		
6	940500200003		Bushing	2		
7	502398510003		Pulley components	2		
7.01	910300500005	1	Nut	2		
7.02	505638520039		Running Pulley	2		
7.03	910100100035	1	Bolt	2		
8	505617020001		Plate	4		
9	505617020000		Axle	4		
10	505698510003		Wheel	4		
10.01	940300300010		WheelΦ84x84	4		
10.02	910700200019		Bearing	8		

**04 Load Wheel (Single) (505646017002)**

## 04 Load Wheel (Single) (505646017002)

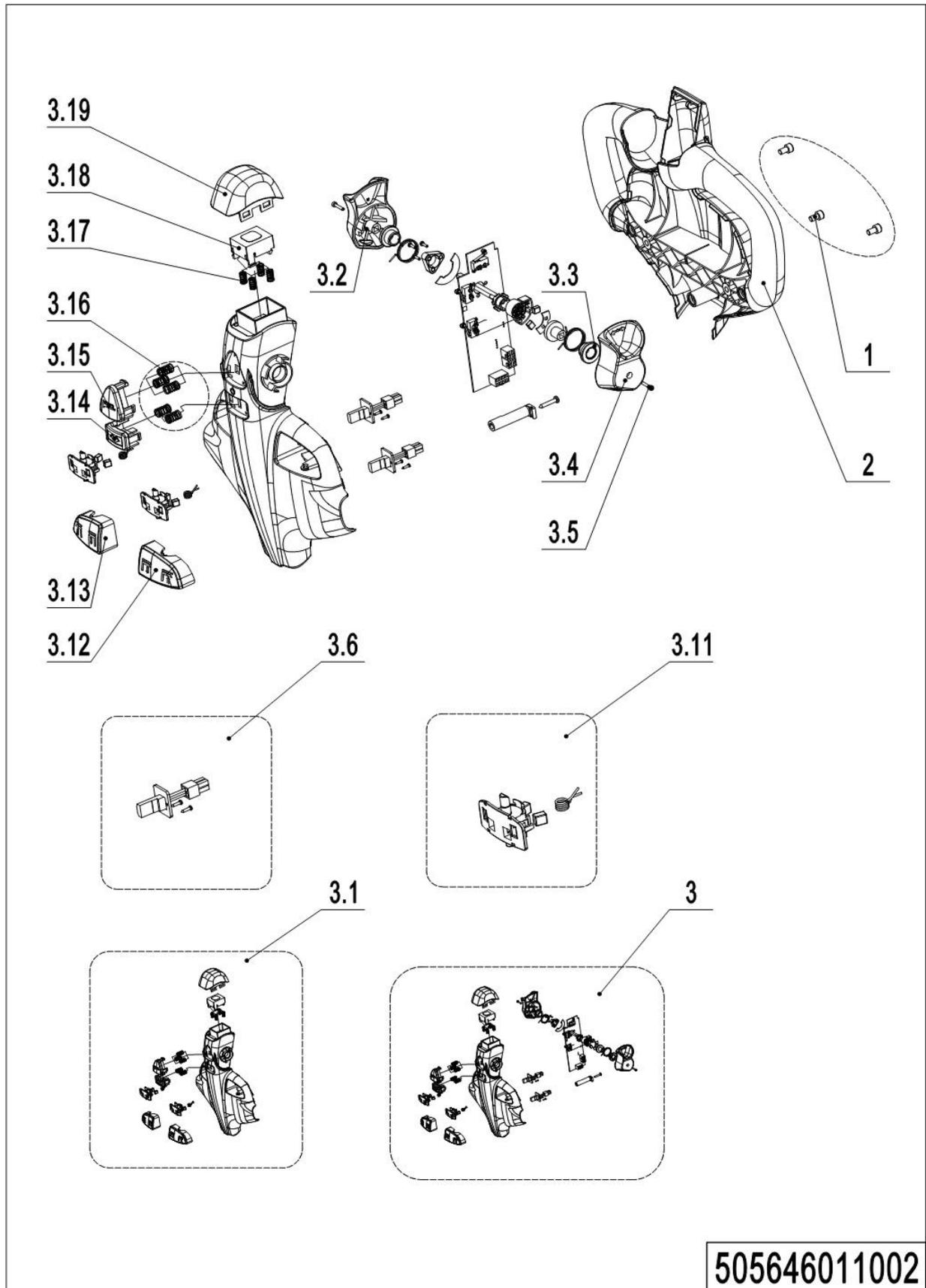
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	910600400027	1	Spring Pin	4		
2	505638520038		Pin	2		
3	911200100001		Oil Cup	2		
4	940500100012		Bushing	4		
5	505638520036		Riser	2		<b>EU</b>
5	505638520065		Riser	2		<b>US</b>
6	505698510004		Wheel	2		
6.01	940300300006		WheelΦ82x110	2		
6.02	910700200019		Bearing	4		
7	502398510003		Pulley components	2		
7.01	910300500005		Nut	2		
7.02	505638520039		Running Pulley	2		
7.03	910100100035	1	Bolt	2		
8	505617020002		Axle	2		
9	910600400030	1	Spring Pin	4		

**05 Caster (505646016501)**

## 05 Caster (505646016501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
--	505616510000		Caster Assembly	2		
1	505616520014		Pad	2		
2	941100300001	1	Screw	2		
3	910600100004	1	Cylindrical Pin	2		
4	505616520007		Retaining Ring	2		
5	505616510002		Plate	2		
6	910700500002		Bearing	2		
7	910401400016		Circlip	2		
8	505616510001		Wheel Carrier	2		
9	910300500006	1	Nut	1		
10	505616520000		Spring	2		
11	940400500007		Spring	2		
12	941100200002	1	Bolt	2		
13	940500100002		Bushing	4		
14	505616510003		Whirling Arm	2		
15	910100100038	1	Bolt	2		
16	505616520011		Dust Cap	4		
17	505616520012		Check Ring	4		
18	505698510000		Caster Assembly	2		
18.01	940300300018		WheelΦ100x40	2		
18.02	910700200019		Bearing	4		
19	505616520013		Bushing	2		
20	910300500005	1	Nut	1		

**06 Control Handle, detong (505646011002)**



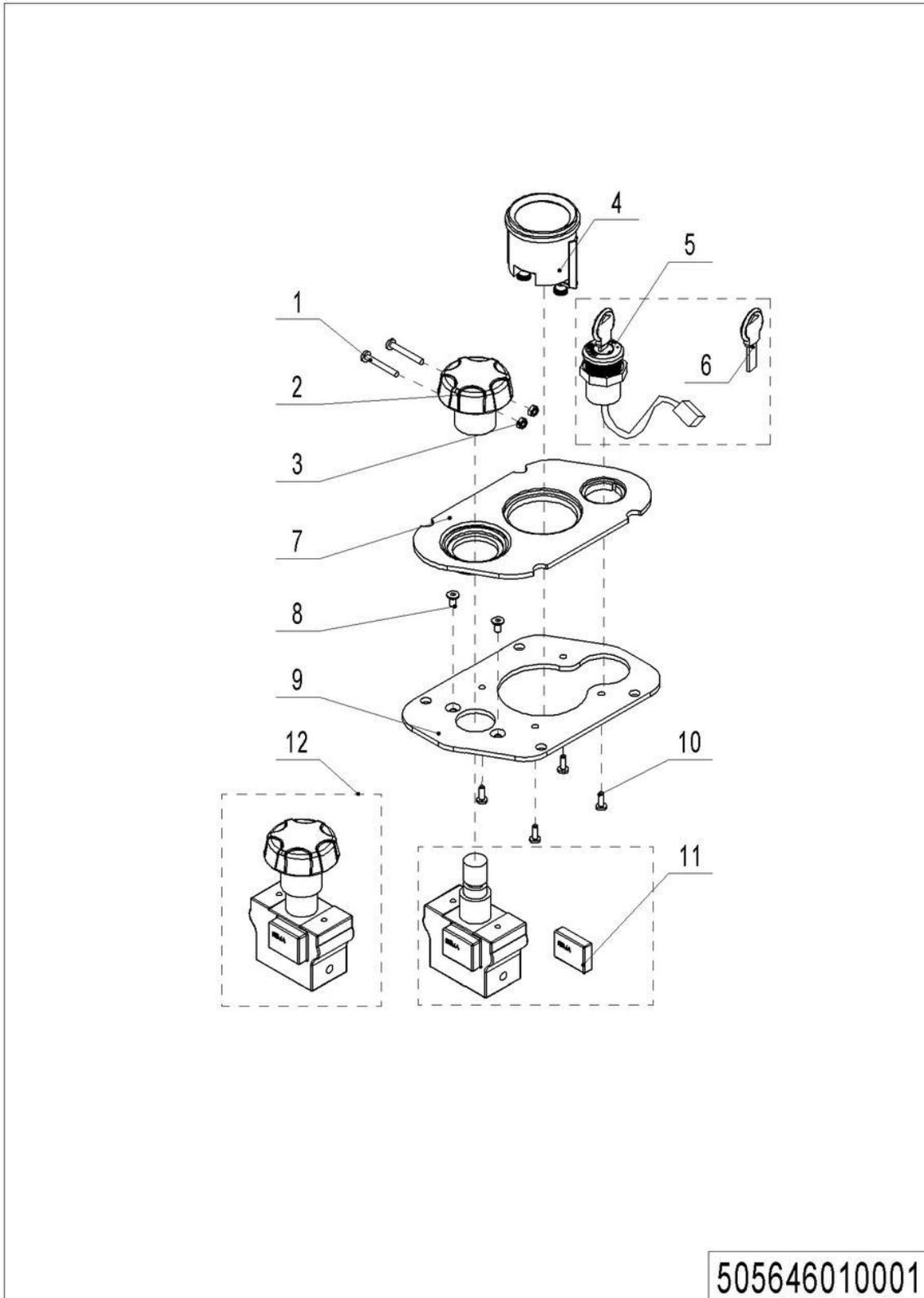
1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 06 Control Handle, detong (505646011002)

No.	Item Code	Mark	Item Description	Qty.	Substitute	Note
1	910200200032	1	Screw	3		M6×10
2	505698520124	2	Handle Cap	1		
3	505698510024	2	Handle Cap Kit	1		
3.1	505698510021	2	Handle Cap Kit	1		
3.11	505698510023	2	Sensor	1		
3.12	505698520113	2	Button	1		
3.13	505698520114	2	Button	1		
3.14	505698520115	2	Button	1		
3.15	505698520116	2	Button	1		
3.16	505698520117	2	Spring	5		
3.17	505698520118	2	Spring	4		
3.18	505698520119	2	Cover	1		
3.19	505698520120	2	Cover	1		
3.2	505698520121	2	Traction lever	1		
3.3	505698520122	2	Sleeve	2		
3.4	505698520123	2	Traction lever	1		
3.5	910200200004	1	Screw	2		M3×16
3.6	505698510022	2	Magnetic Steel Base Kit	1		

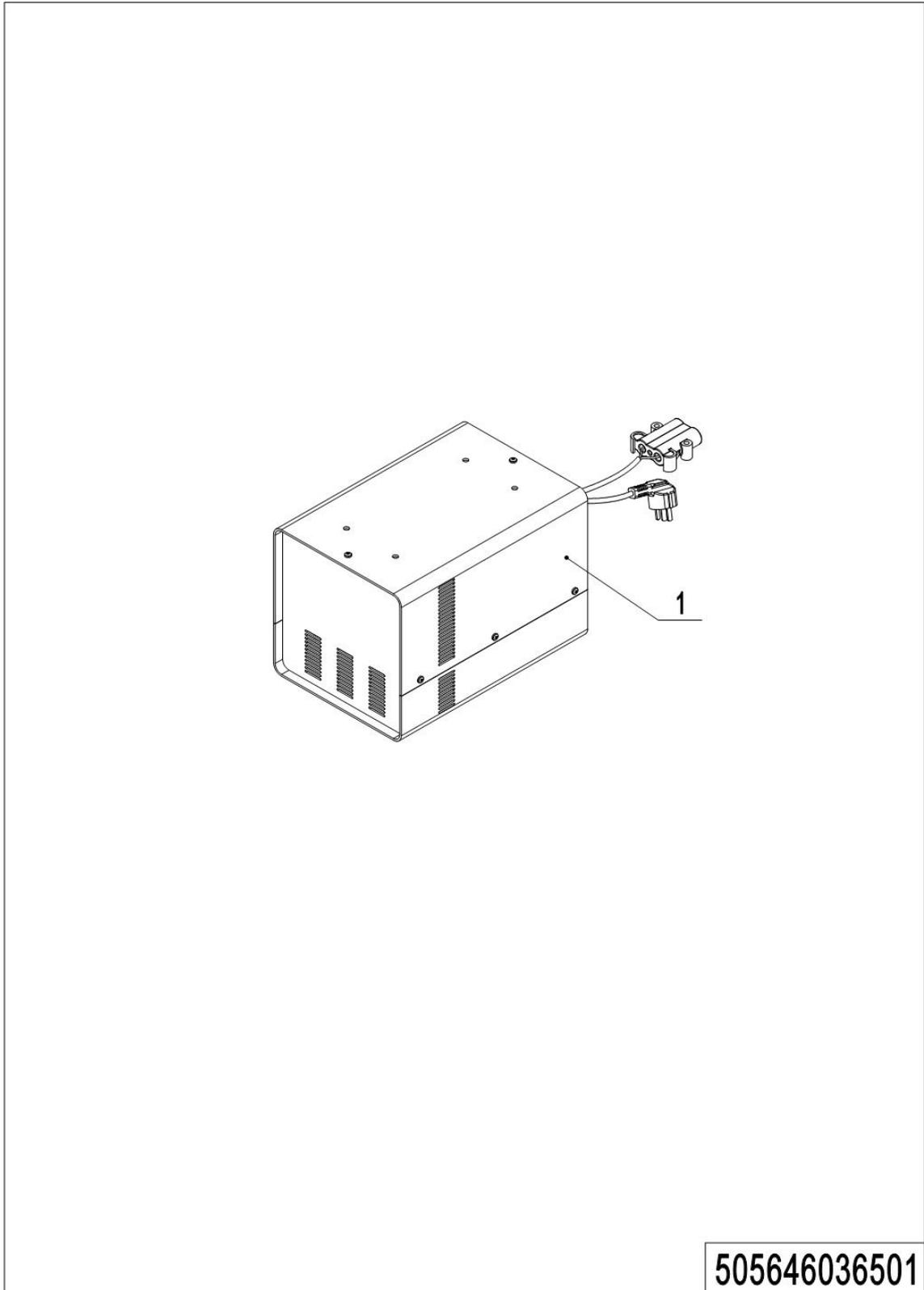
## Chapter 6: Electrical Parts

### 01 Display Assembly (505646010001)



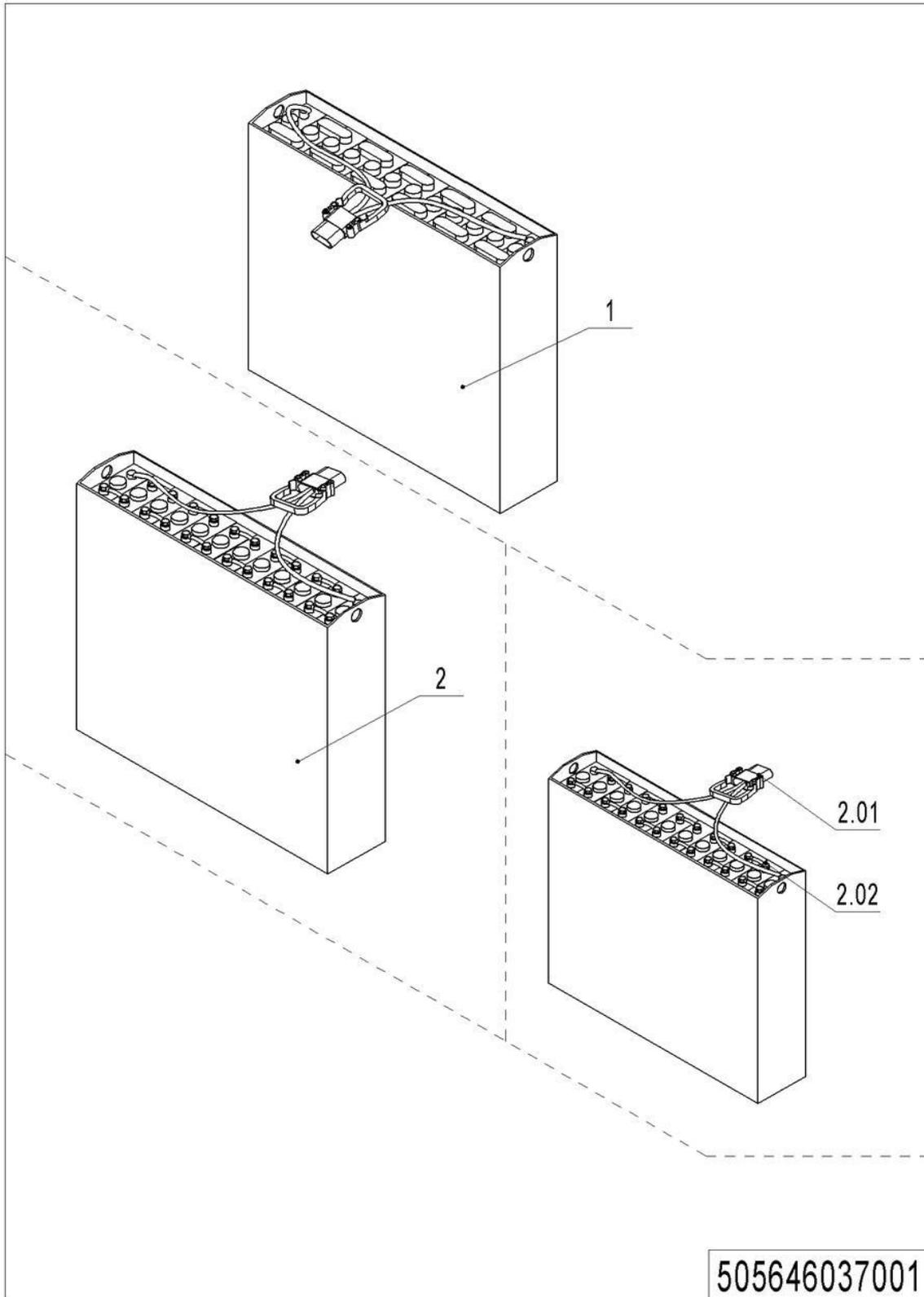
## 01 Display Assembly (505646010001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	910200500016	1	Screw	2		
2	505698520029	2	Button	1		
3	910300100002	1	Nut	2		
4	921100100001	2	Battery Indicator	1		
4	921100100044	2	Battery Indicator	1		
5	505634010000	2	Key Switch	1		
6	505698520031	2	Key	1		
7	505610020000		Panel	1		
8	910200400010	1	Screw	2		
9	505610020001		Fixing Plate	1		
10	910201300001	1	Screw	4		
11	920200100011	2	Emergency Button	1		
12	920200100001	2	Emergency Button	1		

**02 Charger (505646036501)**

## 02 Charger (505646036501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	921000200001	2	Charger24V30A (Aisa-CHN)	1		
1	921000200002	2	Charger24V30A (Aisa-ENG)	1		
1	921000200003	2	Charger24V30A (EU)	1		
1	921000200004	2	Charger24V30A (AUS)	1		
1	921000200005	2	Charger24V30A (ENG)	1		
1	921000200006	2	Charger24V30A (USA)	1		
1	921000200151	2	Charger24V30A (Aisa-CHN)	1		<b>Noblelift</b>
1	921000200153	2	Charger24V30A (Aisa-ENG)	1		<b>Noblelift</b>
1	921000200152	2	Charger24V30A (EU)	1		<b>Noblelift</b>
1	921000200154	2	Charger24V30A (ENG)	1		<b>Noblelift</b>

**03 Traction Battery (505646037001)**

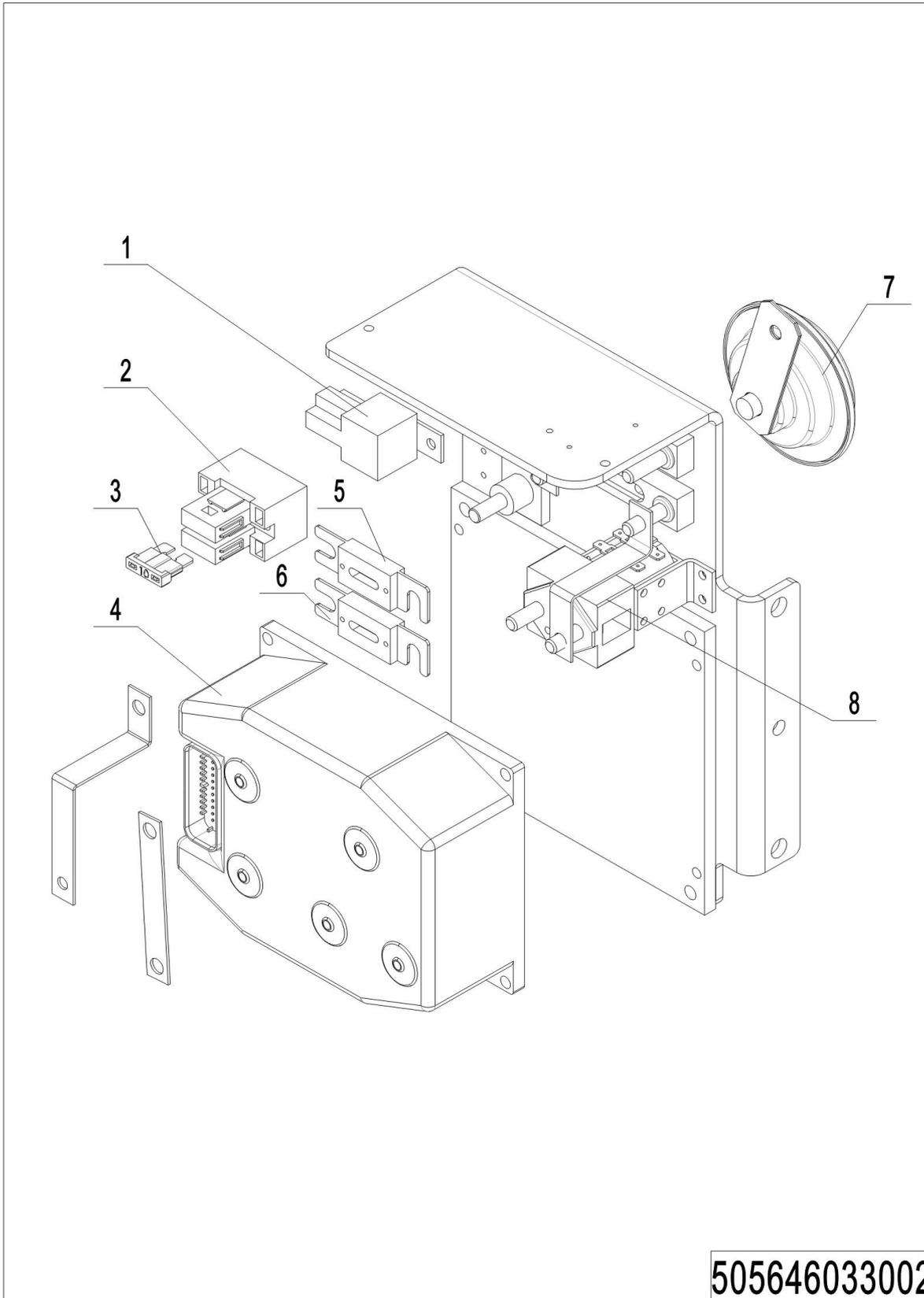
## 03 Traction Battery (505646037001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505637010001		Battery24V210Ah (welded)	1		
2	505637010006		Battery24V180Ah	1		
2	505637010000		Battery24V210Ah	1		
2.01	505698520000		Bolt	24		
2.02	505698510001		Connector	1		



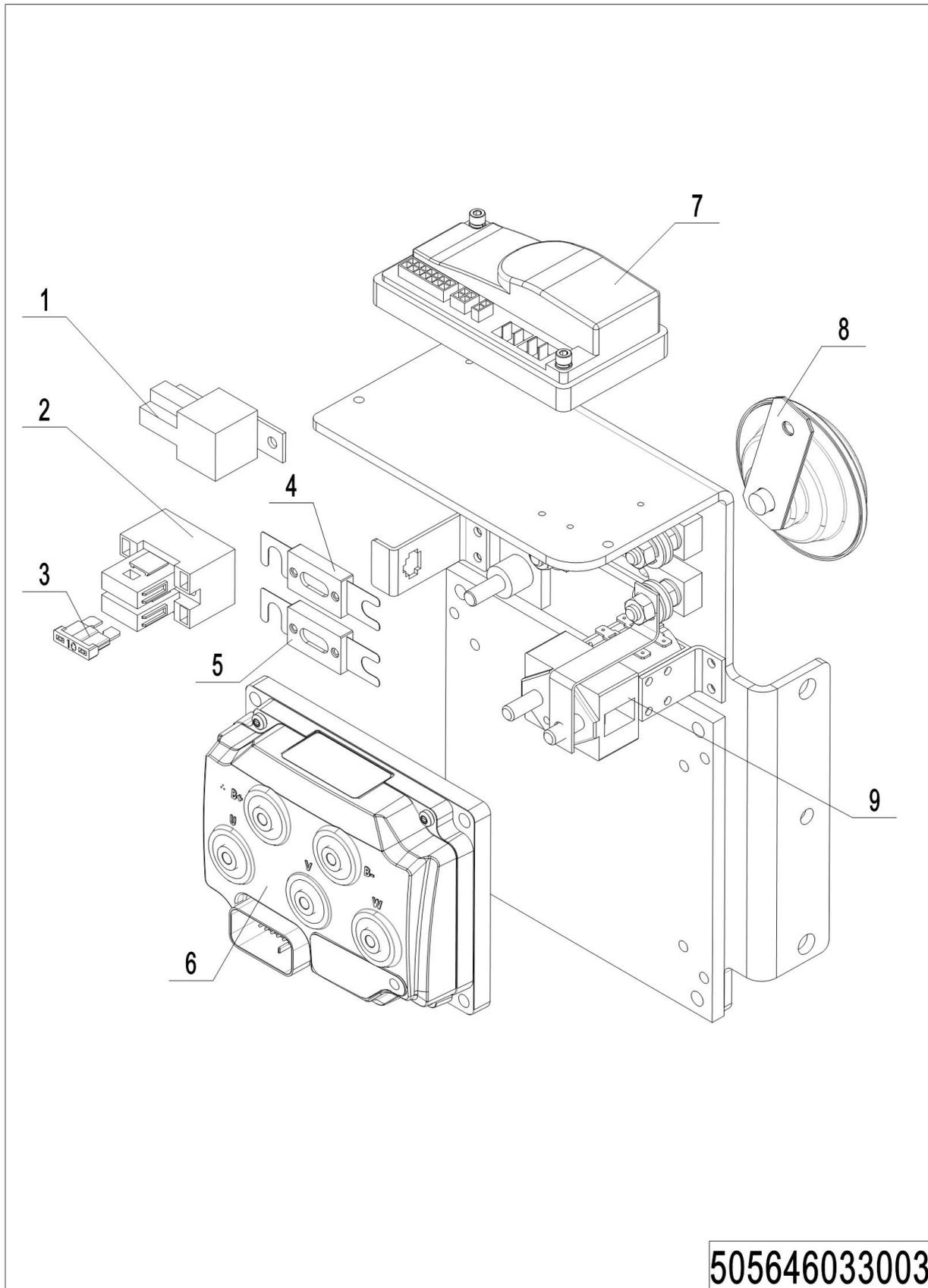
## 04 Controller, 1232E+1220 (505646033001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	920800100001	2	Relay	1		
2	920100400005	2	Fuse Holder	1		
3	920100200002		Fuse	1		
4	921400100006	2	Controller	1		
5	920100100004		Fuse	1		
6	920100100007		Fuse	1		
7	921400100003	2	Controller	1		
8	920500100001	2	Horn	1		
9	920700100004	2	Contacto	1		

**05 Controller, 1232E (505646033002)**

## 05 Controller, 1232E (505646033002)

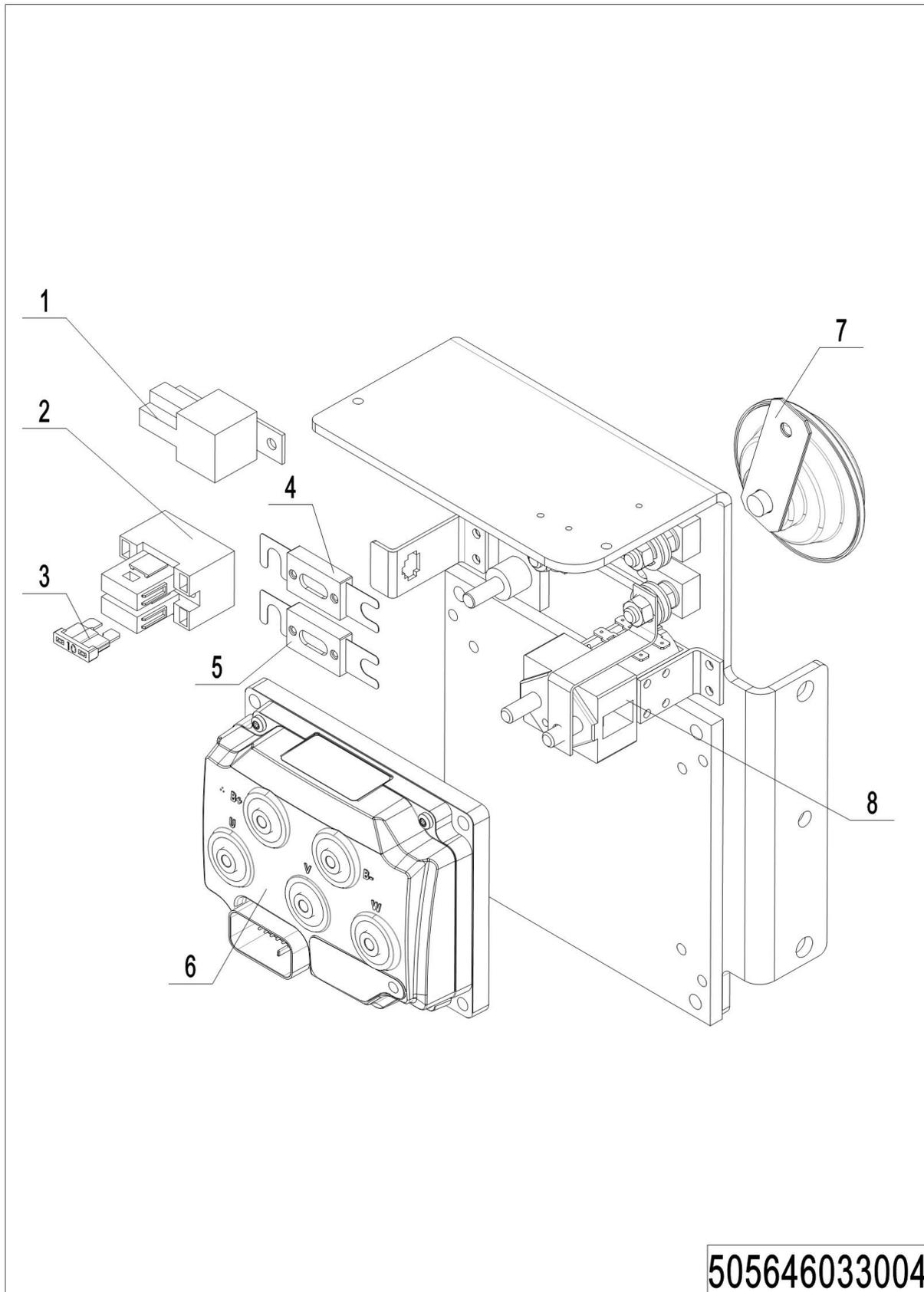
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	920800100001	2	Relay	1		
2	920100400005	2	Fuse Holder	1		
3	920100200002		Fuse	1		
4	921400100006	2	Controller	1		
5	920100100004		Fuse	1		
6	920100100007		Fuse	1		
7	920500100001	2	Horn	1		
8	920700100004	2	Contacto	1		

**06 Controller, F2A+1220C (505646033003)**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 06 Controller, F2A+1220C (505646033003)

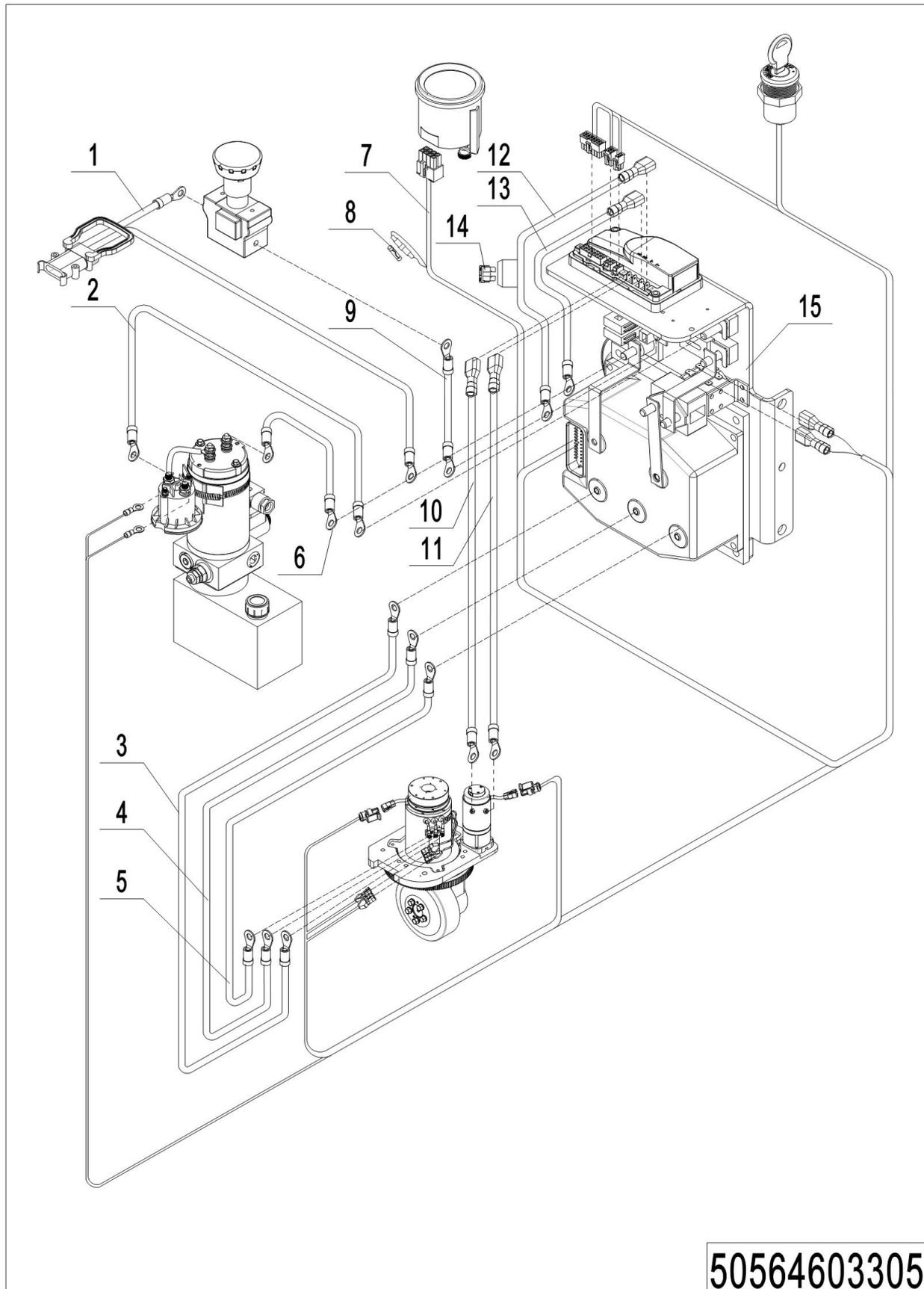
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	920800100001	2	Relay	1		
2	920100400005	2	Fuse Holder	1		
3	920100200002		Fuse	1		
4	920100100004		Fuse	1		
5	920100100007		Fuse	1		
6	921400100064	2	Controller	1		
7	921400100023	2	Controller	1		
8	920500100001	2	Horn	1		
9	920700100004	2	Contacto	1		

**07 Controller, F2A (505646033004)**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

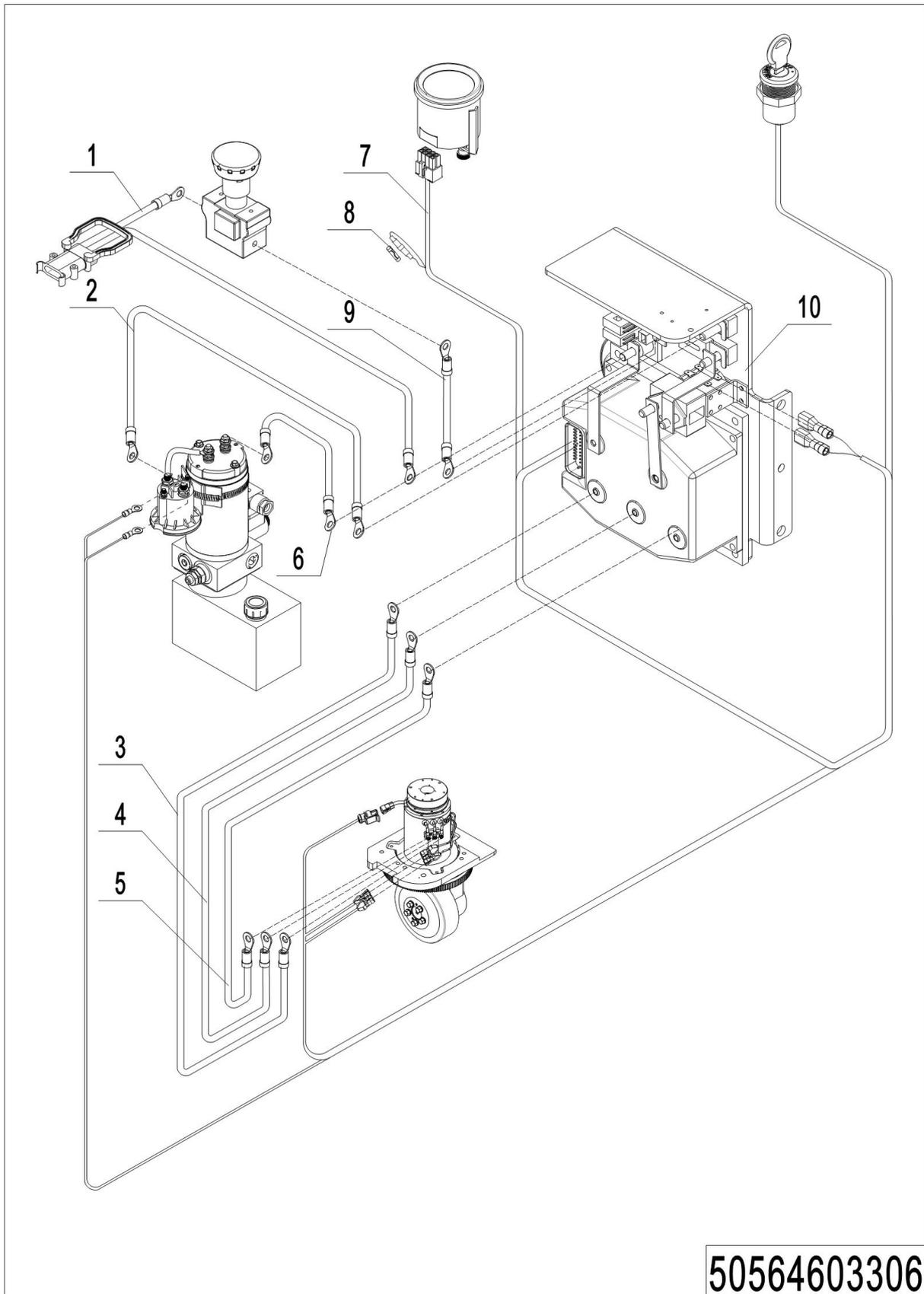
## 07 Controller, F2A (505646033004)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	920800100001	2	Relay	1		
2	920100400005	2	Fuse Holder	1		
3	920100200002		Fuse	1		
4	920100100004		Fuse	1		
5	920100100007		Fuse	1		
6	921400100064	2	Controller	1		
7	920500100001	2	Horn	1		
8	920700100004	2	Contacto	1		

**08 Wire Harness, 1232E+1220 (505646033005)****505646033005**

## 08 Wire Harness, 1232E+1220 (505646033005)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505633010004	2	Wire Harness	1		
2	505633010009	2	Cable	1		
3	505633010008	2	Cable	1		
4	505633010020	2	Cable	1		
5	505633010021	2	Cable	1		
6	505633010022	2	Cable	1		
7	505633010000	2	Wire Harness	1		
7	505633010013	2	Wire Harness	1		
8	920100300001		Fuse	1		
9	505633010005	2	Cable	1		
10	505633010015	2	Cables	1		
11	505633010027	2	Cables	1		
12	505633010014	2	Wire Harness	1		
13	505633010026	2	Cables	1		
14	920100200003		Fuse	1		
15	505633010006	2	Electronic Components	1		
15	505633010016	2	Electronic Components	1		

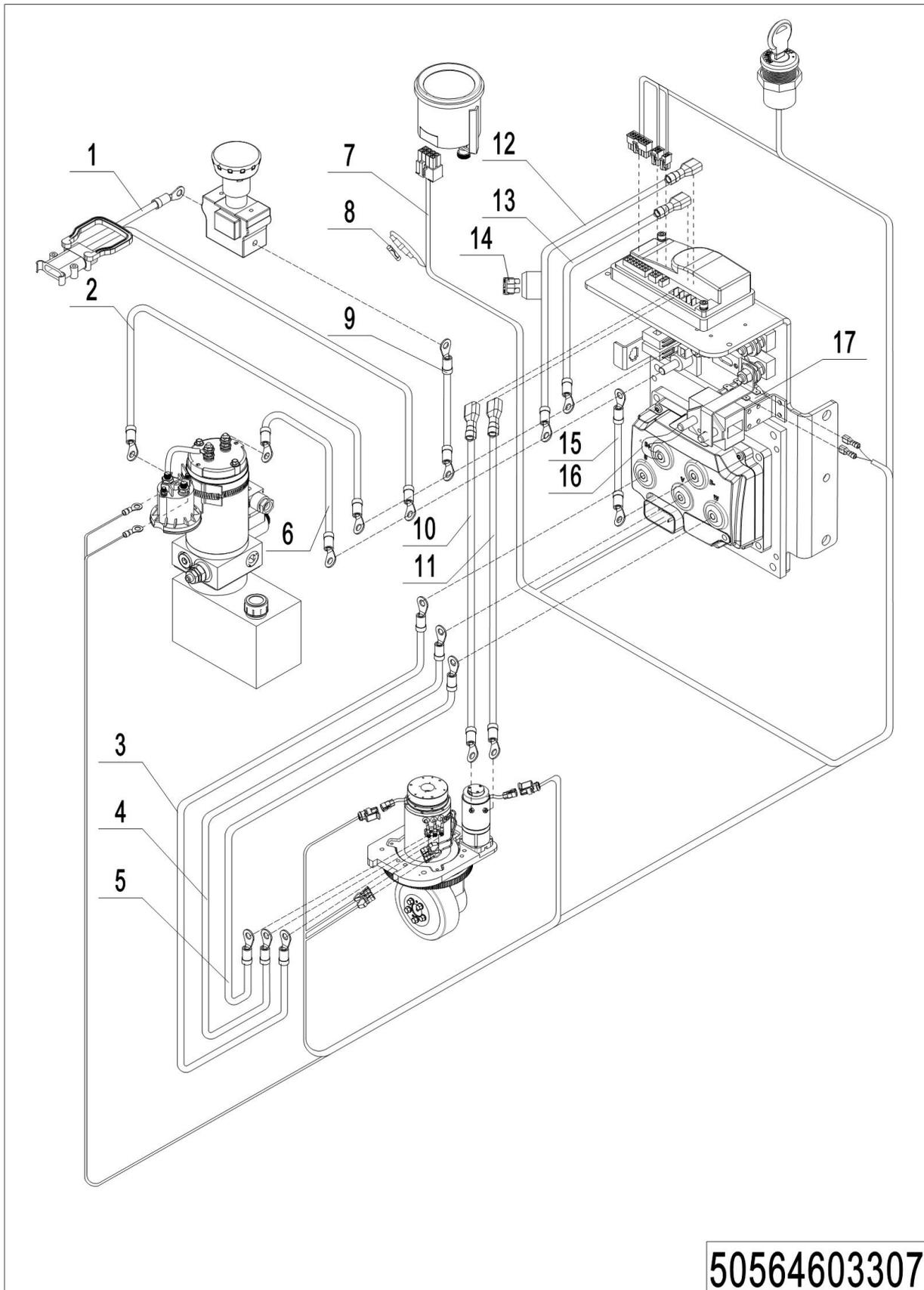
**09 Wire Harness, 1232E (505646033006)****50564603306**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 09 Wire Harness, 1232E (505646033006)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505633010004	2	Wire Harness	1		
2	505633010009	2	Cable	1		
3	505633010008	2	Cable	1		
4	505633010020	2	Cable	1		
5	505633010021	2	Cable	1		
6	505633010022	2	Cable	1		
7	505633010000	2	Wire Harness	1		
8	920100300001		Fuse	1		
9	505633010005	2	Cable	1		
10	505633010006	2	Electronic Components	1		

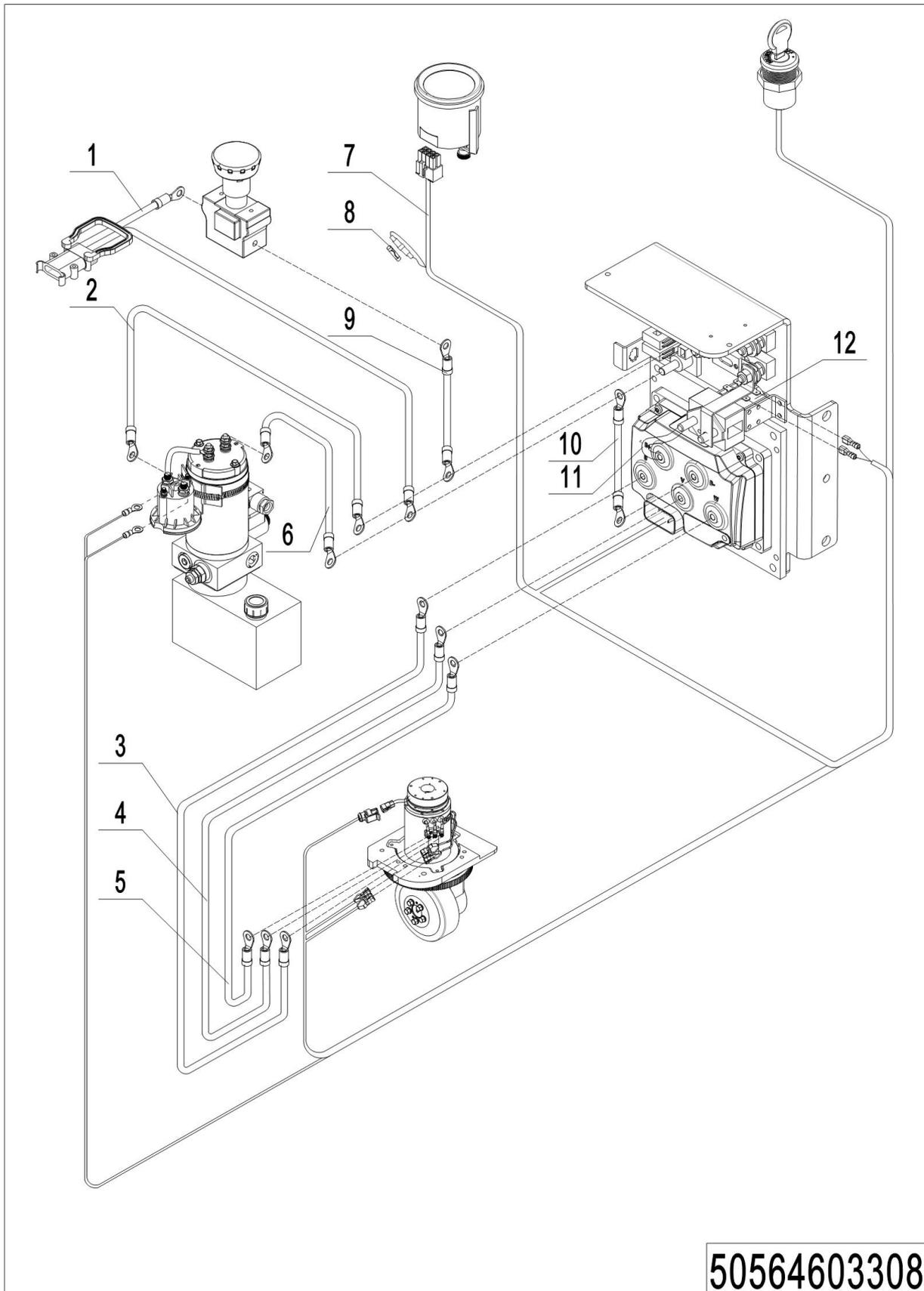
## 10 Wire Harness, F2A+1220C (505646033007)



1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 10 Wire Harness, F2A+1220C (505646033007)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505633010004	2	Wire Harness	1		
2	505633010009	2	Cable	1		
3	505633010008	2	Cable	1		
4	505633010020	2	Cable	1		
5	505633010021	2	Cable	1		
6	505633010022	2	Cable	1		
7	505633010033	2	Wire Harness	1		
8	920100300001		Fuse	1		
9	505633010005	2	Cable	1		
10	505633010015	2	Cables	1		
11	505633010027	2	Cables	1		
12	505633010014	2	Wire Harness	1		
13	505633010026	2	Cables	1		
14	920100200003		Fuse	1		
15	505633010030	2	Cable	1		
16	505633010031	2	Cable	1		
17	505633010034	2	Electronic Components	1		

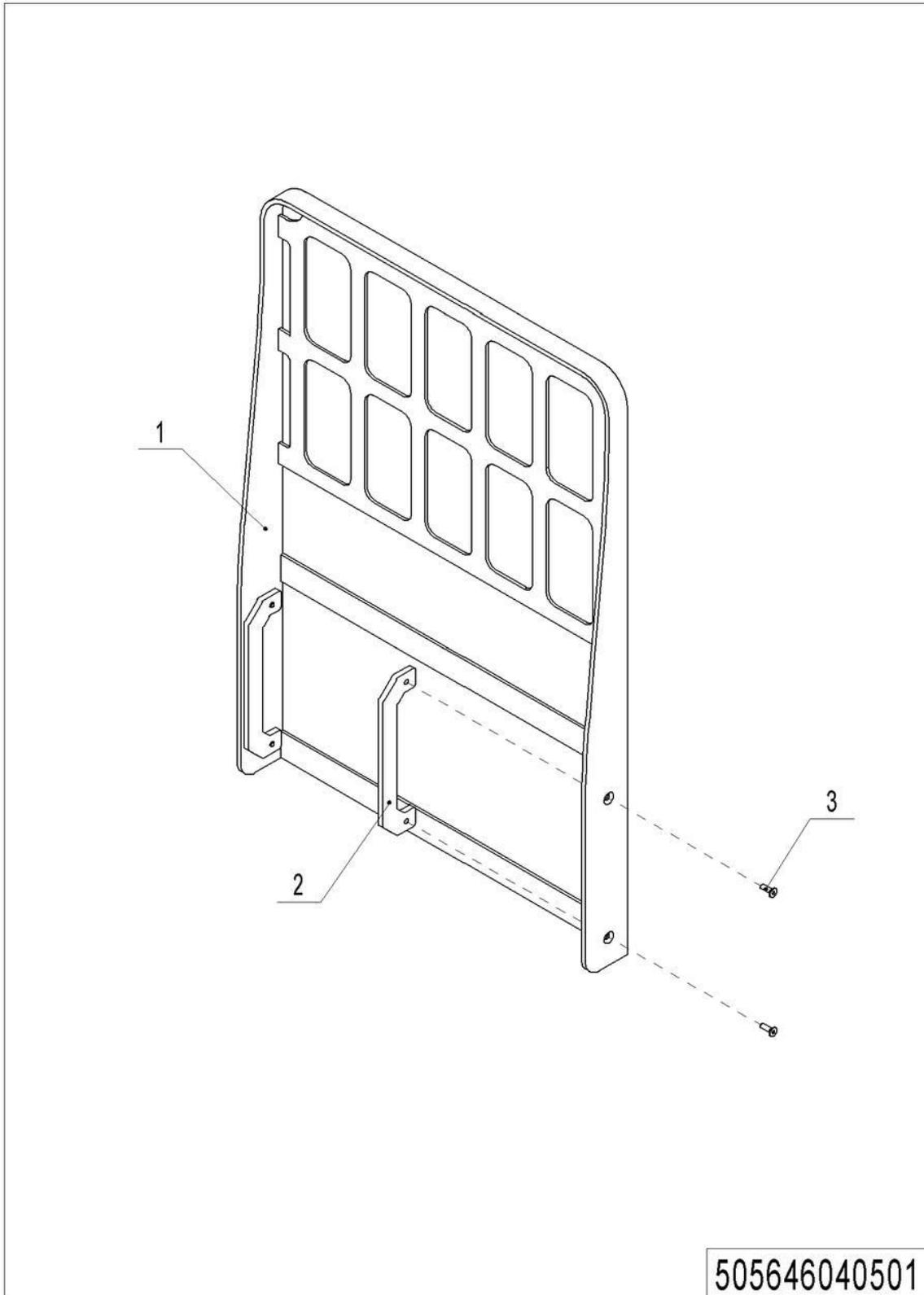
**11 Wire Harness, F2A (505646033008)****505646033008**

## 11 Wire Harness, F2A (505646033008)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505633010004	2	Wire Harness	1		
2	505633010009	2	Cable	1		
3	505633010008	2	Cable	1		
4	505633010020	2	Cable	1		
5	505633010021	2	Cable	1		
6	505633010022	2	Cable	1		
7	505633010029	2	Wire Harness	1		
8	920100300001		Fuse	1		
9	505633010005	2	Cable	1		
10	505633010030	2	Cable	1		
11	505633010031	2	Cable	1		
12	505633010032	2	Electronic Components	1		

## Chapter 7: Special Parts

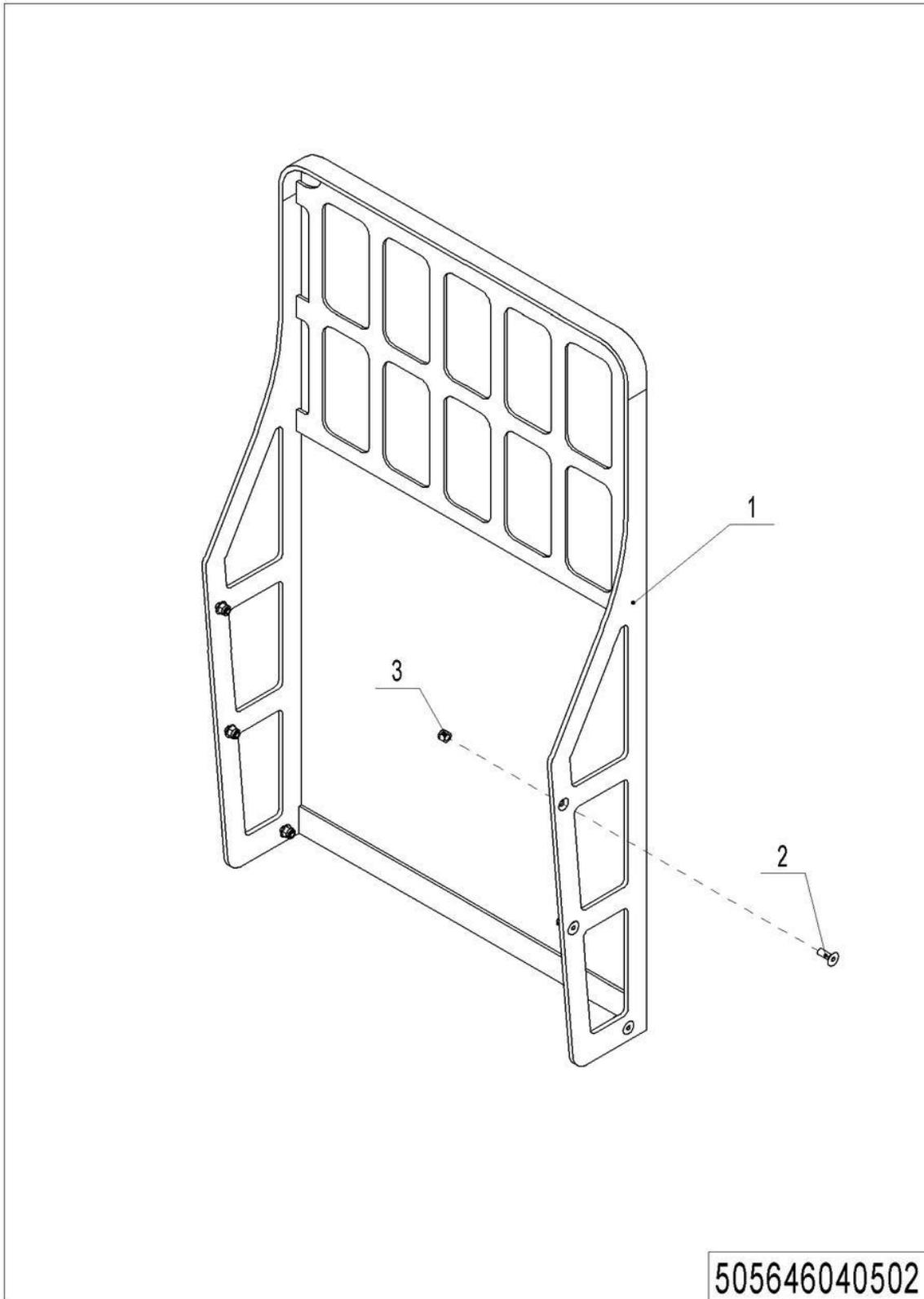
### 01 Load Backrest-EU (505646040501)



1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 01 Load Backrest-EU (505646040501)

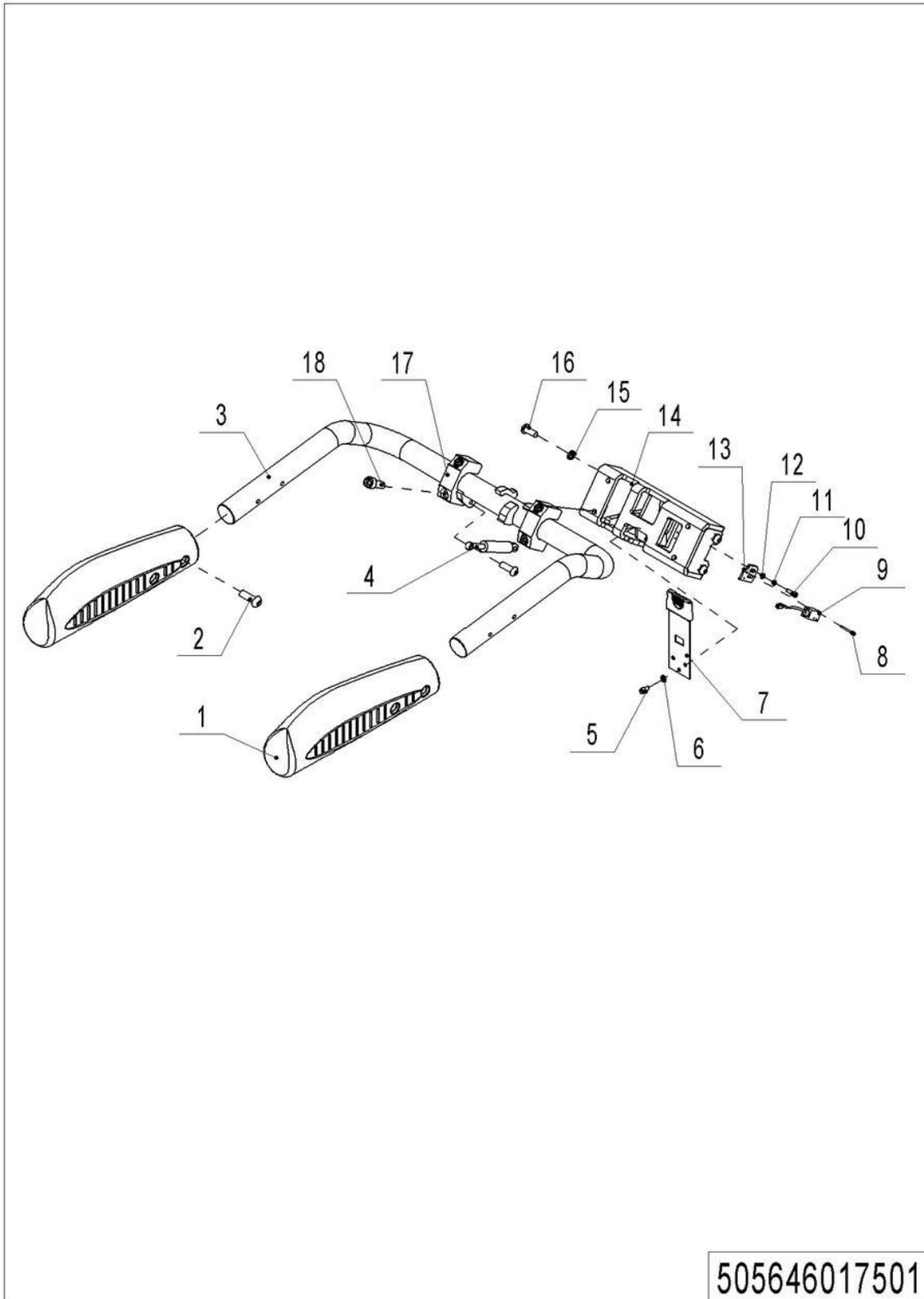
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505640510001		Load Backrest	1		
2	505640520004		Mounting Plate	2		
3	910200400036	1	Screw	4		

**02 Load Backrest-US (505646040502)**

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 02 Load Backrest-US (505646040502)

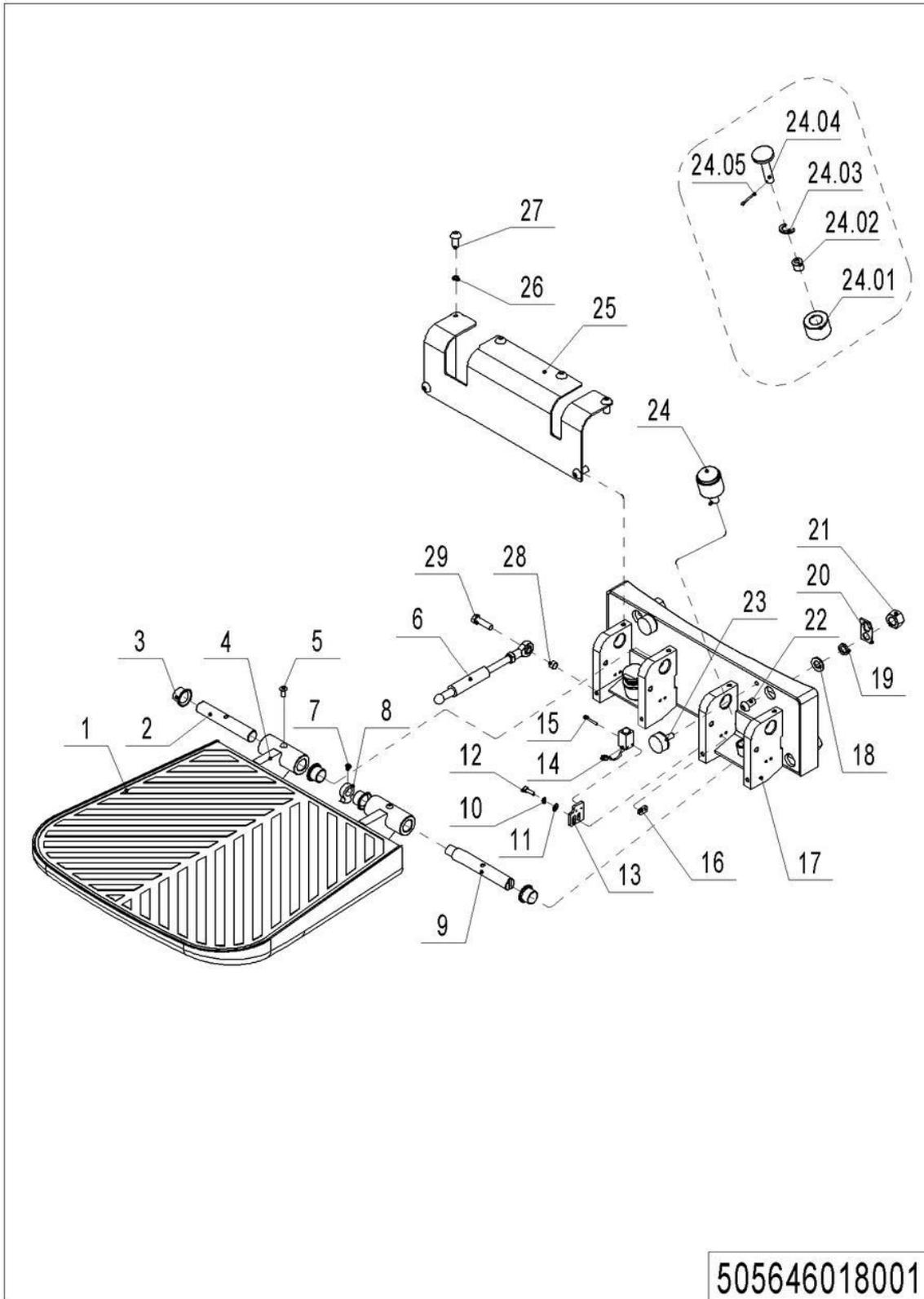
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505640510003		Load Backrest	1		
2	910200400036	1	Screw	6		
3	910300500005	1	Nut	6		

**03 Guard Arm (505646017501)**

## 03 Guard Arm (505646017501)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505617510002		Guard Arm Sleeve	2		
2	910200300025	1	Screw	5		
3	505617510001		Guard Arm	1		
4	940400100006		Air Spring	1		
5	910200300017	1	Screw	3		
6	910400500005	1	Spring Washer	3		
7	505617510005		Leaf Spring	1		
8	910200500015	1	Screw	2		
9	505633510001	2	Proximity Switch	1		
10	910400500004	1	Spring Washer	2		
11	910400100004	1	Flat Washer	2		
12	910200200023	1	Screw	2		
13	505618020026		Mounting Plate	1		
14	505617510000		Base	1		
15	910400500007	1	Spring Washer	4		
16	910100300036	1	Bolt	4		
17	505617520005		Fixing Base	2		
18	910200200080	1	Screw	4		
--	505698510012		Protective Arm Assembly	1		

### 04 Platform (505646018001)

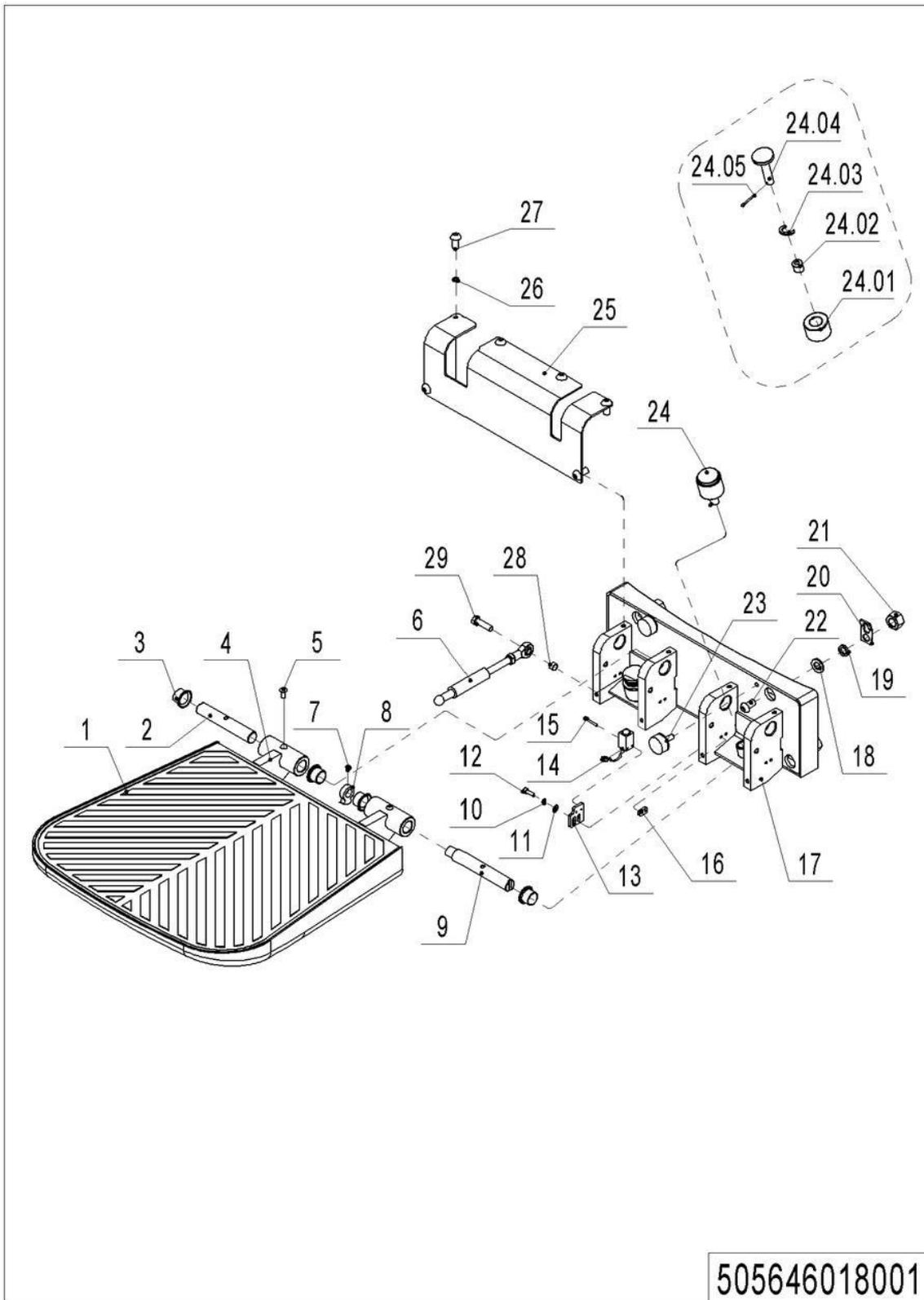


505646018001

## 04 Platform (505646018001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	505618020018		Rubber Mat	1		
2	505618020020		Axle	1		
3	940500200008		Bushing	4		
4	505618010000		Platform	1		
5	910200300018	1	Screw	2		
6	940400100039		Air Spring	1		
7	910300400006		Nut	1		
8	505618020024		Cam	1		
9	505618020017		Pin	1		
10	910400500004	1	Spring Washer	2		
11	910400100004	1	Flat Washer	2		
12	910200200023	1	Screw	2		
13	505618020026		Mounting Plate	1		
14	910200500015	1	Screw	2		
15	505633510002	2	Proximity Switch	1		
16	505618020027		Mounting Plate	1		
17	505618010001		Mounting Base	1		
18	910400100008	1	Flat Washer	4		
19	910400500008	1	Spring Washer	4		
20	505618020025		Pipe Clip	1		
21	910300500006	1	Nut	4		
22	910200200100	1	Screw	4		
23	505618020016		Crash Pad	2		
24	505698510002		Buffer Kits	2		
24.01	505618020029		Crash Pad	2		
24.02	505618020030		Sleeve	2		
24.03	505618020032		Pad	2		
24.04	505618020021		Pin	2		
24.05	910600600026	1	Cotter Pin	2		
25	505618020019		Protective Cover	1		

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

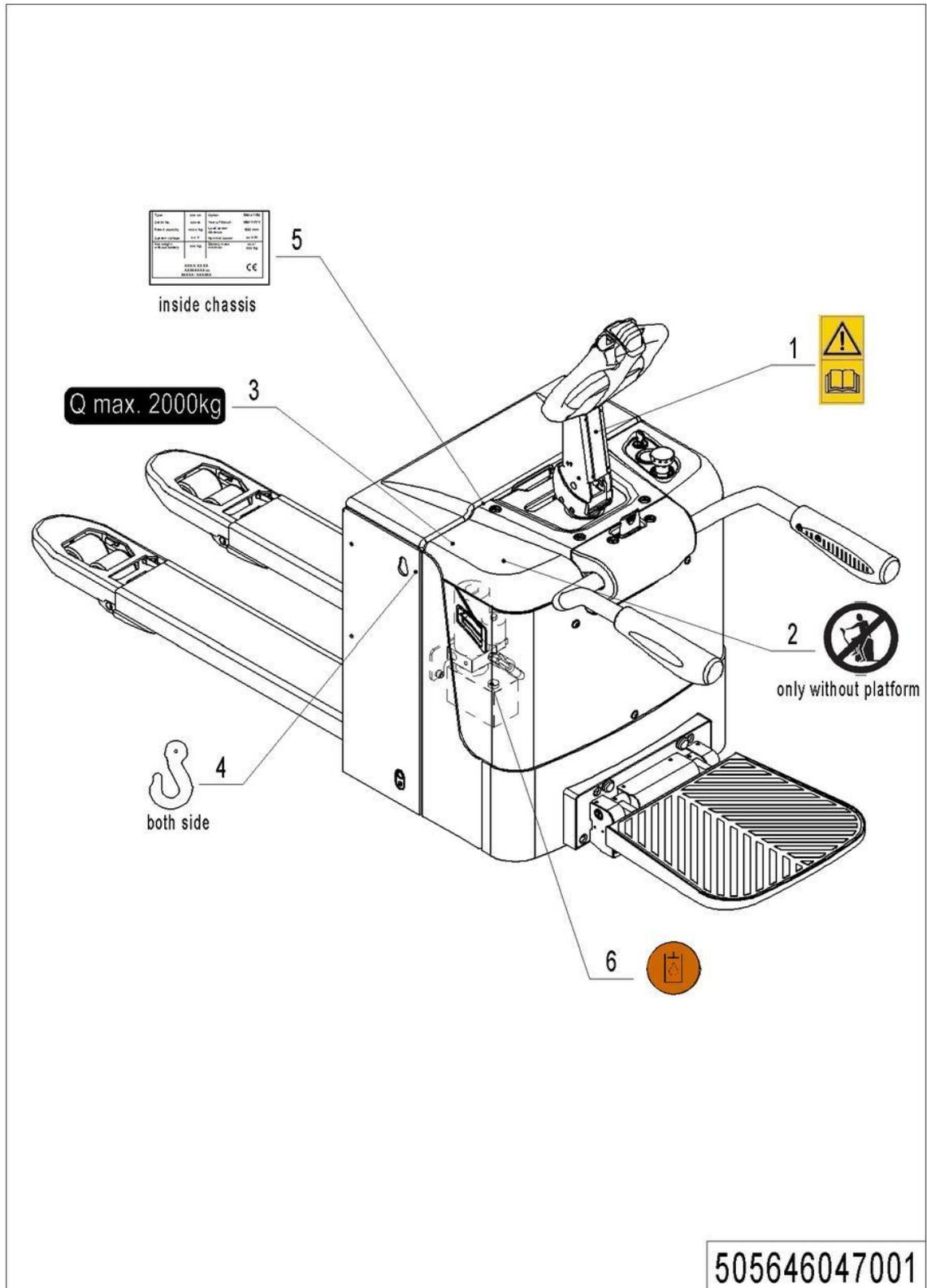
**04 Platform (505646018001) Continuation**

## 04 Platform (505646018001) Continuation

No.	Part Number	Mark	Description	Qty.	Substitute	Note
26	910400500005	1	Spring Washer	6		
27	910200300017	1	Screw	6		
28	505618020028		Spacer Bush	1		
29	910100300024	1	Bolt	1		
--	505698510013		Footboard Kit	1		

## Chapter 8: Others

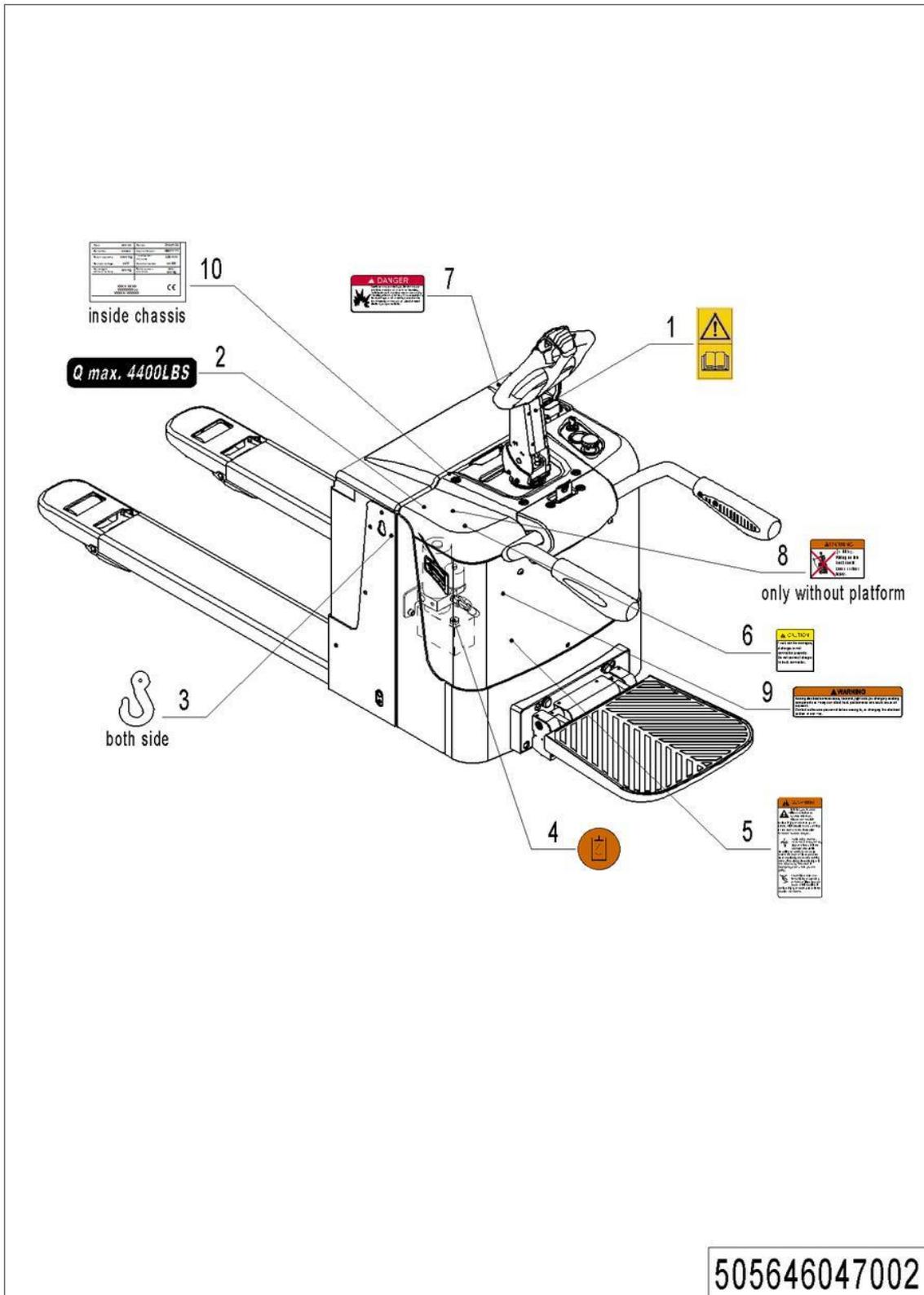
### 01 Labels and Decals-EU (505646047001)



## 01 Labels and Decals-EU (505646047001)

No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	941200300002		Label	1		
2	941200100003		Label	1		
3	941200200010		Label	1		
4	941200300001		Label	2		
5	505647020001		Truck data plate	1		
6	941200300003		Label	1		

## 02 Labels and Decals-US (505646047002)

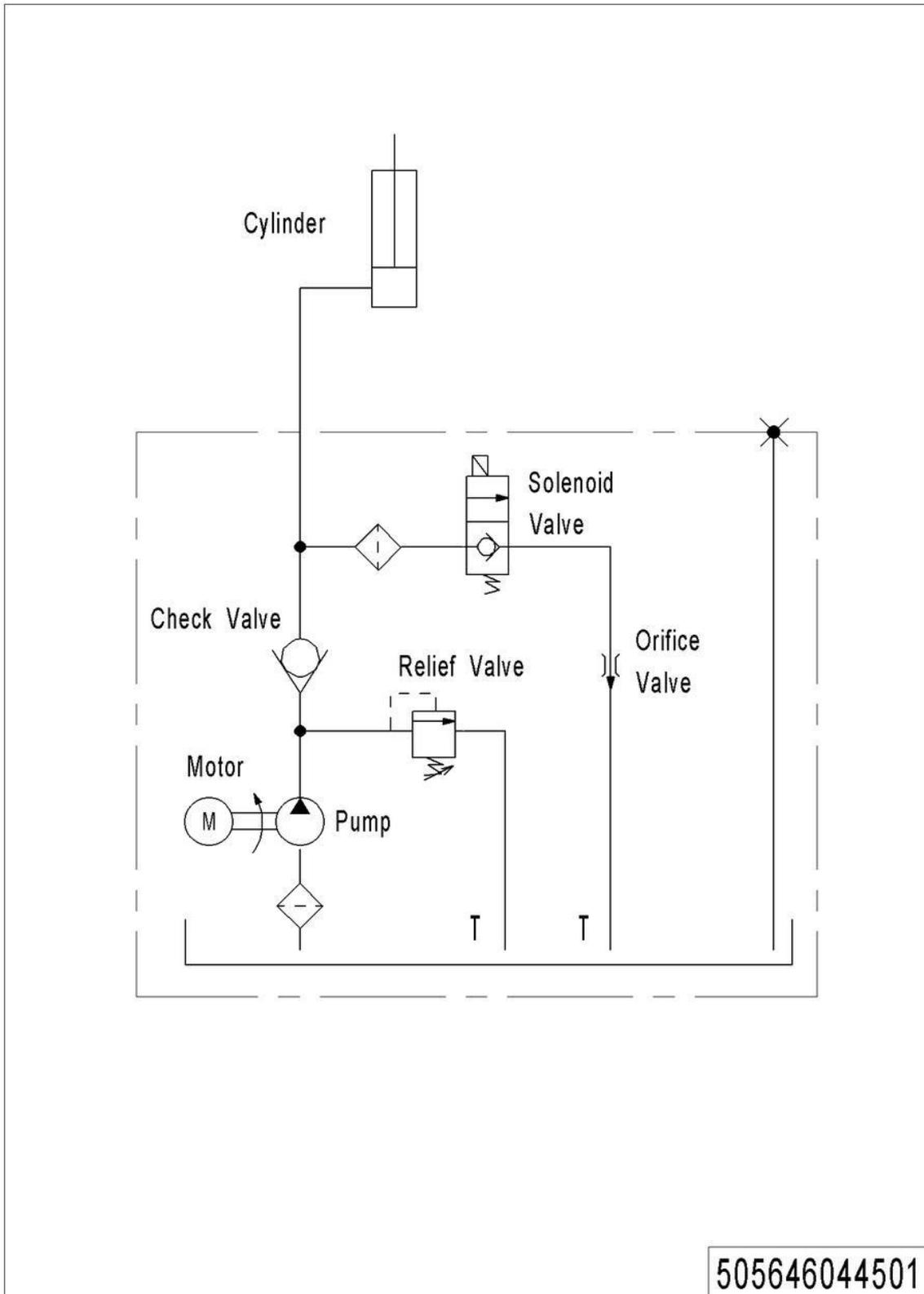


## 02 Labels and Decals-US (505646047002)

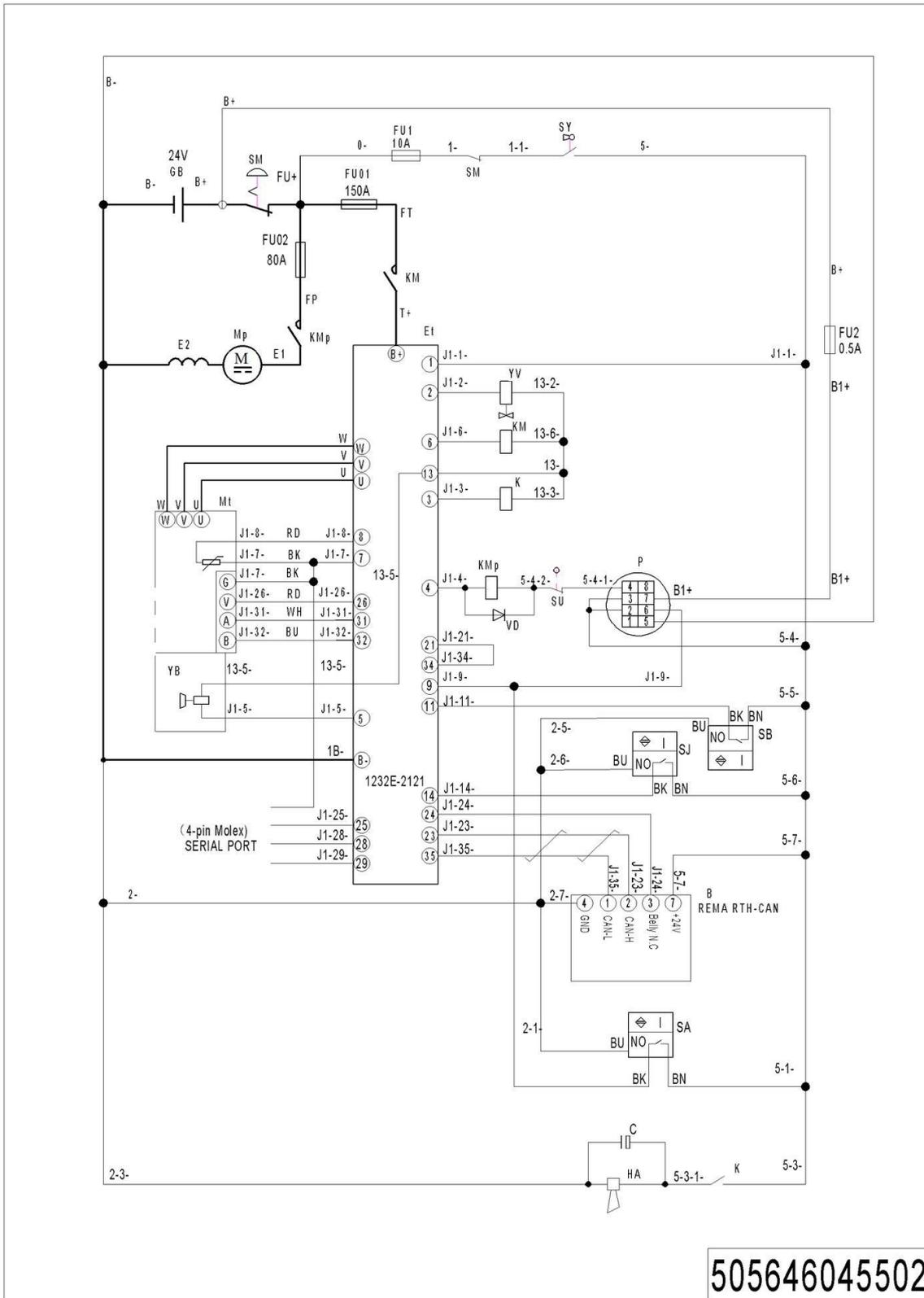
No.	Part Number	Mark	Description	Qty.	Substitute	Note
1	941200300002		Label	1		
2	941200200038		Label	1		
3	941200300001		Label	2		
4	941200300003		Label	1		
5	941200100009		Label	1		
6	941200100012		Label	1		
7	941200100013		Label	1		
8	941200100011		Label	1		
9	941200100010		Label	1		
10	505647020002		Truck data plate	1		

## Appendix

## 01 Hydraulic Circuit Diagram (505646045501)

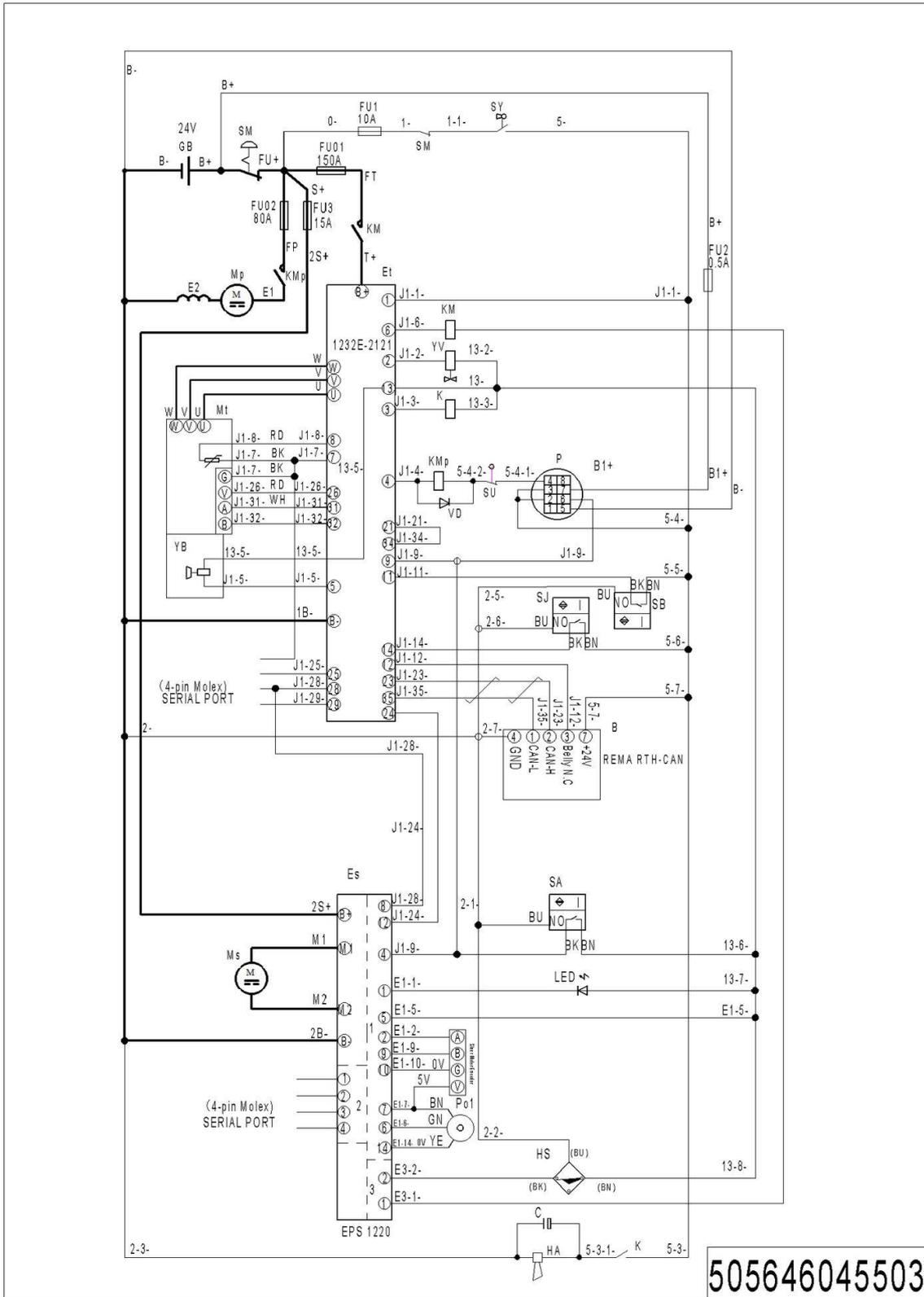


02 Electrical Circuit Diagram, Curtis 1232E-2121 (505646045502)



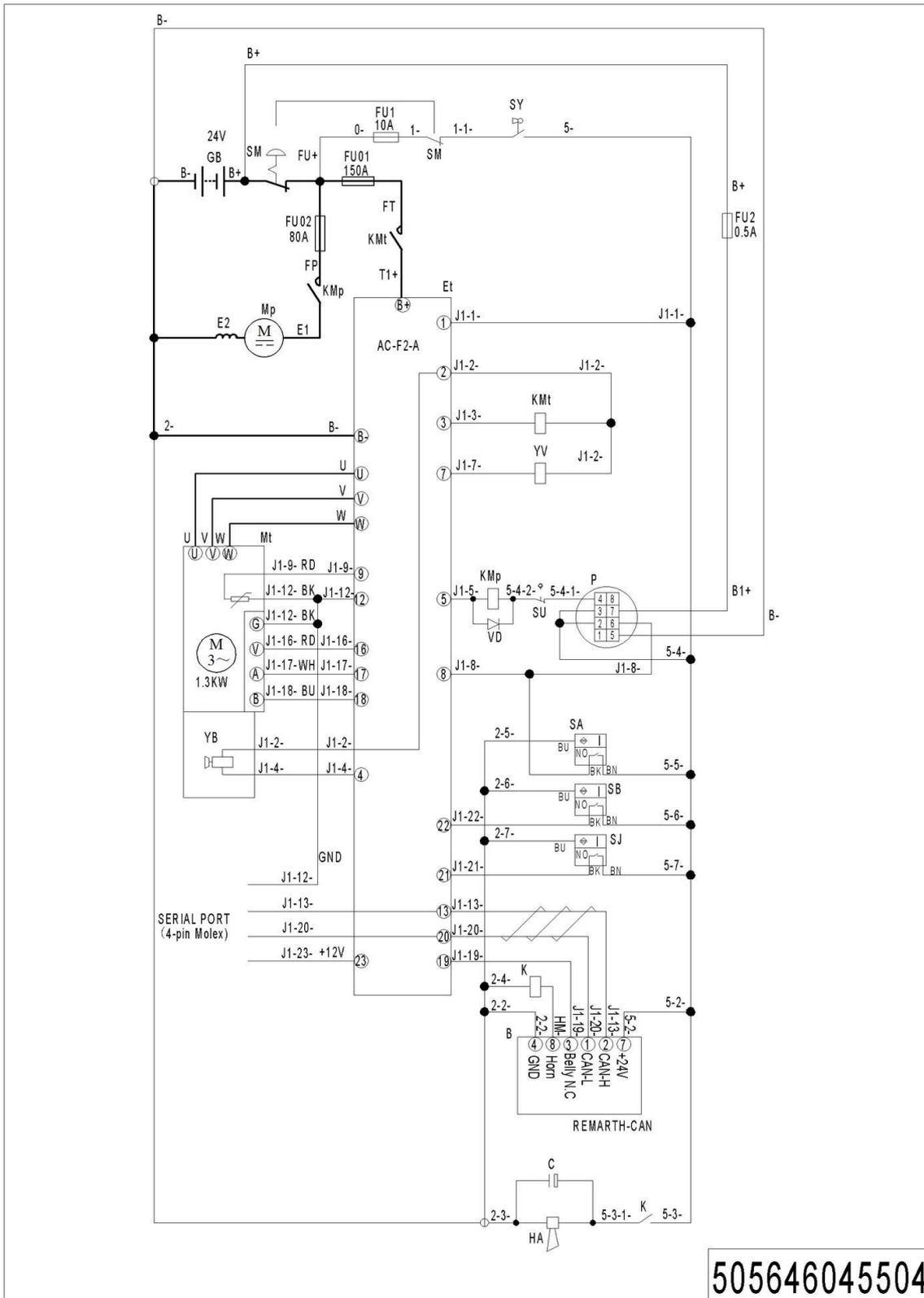
1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

**03 Electrical Circuit Diagram, Curtis 1232E-2121+EPS1220 (505646045503)**



1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

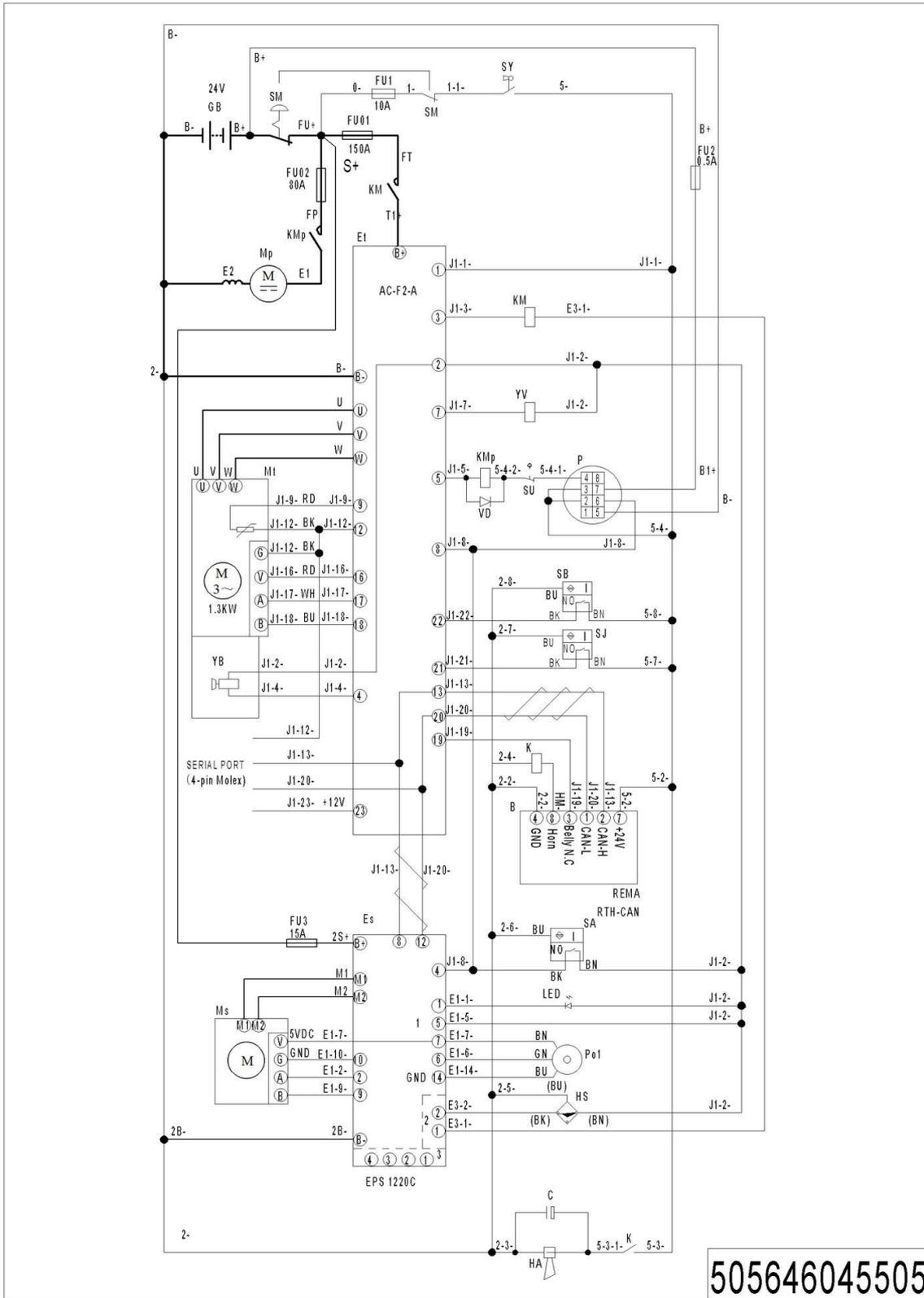
**04 Electrical Circuit Diagram, Curtis AC-F2-A (505646045504)**



505646045504

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

**05 Electrical Circuit Diagram, Curtis AC-F2-A+EPS1220C (505646045505)**



1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

## 06 Consumable Parts List

No.	Part Number	Description	Qty.	Chapter / section number / location
1	920200400002	Proximity Switch	1	Chapter 1/04/7
2	910700200041	Bearing	2	Chapter 1/04/3.02
3	505698510005	Seal Kit	1	Chapter 2/01/14.01
4	940500100019	Bushing	2	Chapter 2/01/16
5	940500100017	Bushing	4	Chapter 3/01/9
6	920200300003	Microswitch	1	Chapter 3/01/38
7	940500100027	Bushing	6	Chapter 4/01/8 Chapter 4/02/8 Chapter 4/03/8
8	940500100019	Bushing	6	Chapter 4/01/9 Chapter 4/02/9 Chapter 4/03/9
9	940500100032	Bushing	6	Chapter 4/01/10 Chapter 4/02/10 Chapter 4/03/10
10	940500100012	Bushing	20	Chapter 4/01/16 Chapter 4/02/16 Chapter 4/03/16
10	940500100012	Bushing		Chapter 4/02/4 Chapter 4/03/4
11	910700200017	Bearing	10	Chapter 4/02/32.04
12	505633510000	Proximity Switch	1	Chapter 5/01/6
13	940500200002	Bushing	2	Chapter 5/01/8
14	940500200003	Bushing	2	Chapter 5/03/6
15	505638520039	Running Pulley	4	Chapter 5/03/7.02 Chapter 5/04/7.02
16	940300300010	WheelΦ84x84	4	Chapter 5/03/10.01
17	910700200019	Bearing	16	Chapter 5/03/10.02 Chapter 5/04/6.02
17	910700200019	Bearing		Chapter 5/05/24.02
18	940300300006	WheelΦ82x110	2	Chapter 5/04/6.01
19	910700500002	Bearing	2	Chapter 5/05/12
20	940500100002	Bushing	4	Chapter 5/05/19
21	940300300018	WheelΦ100x40	2	Chapter 5/05/24.01
22	920100200002	Fuse	4	Chapter 6/04/3 Chapter 6/05/3 Chapter 6/06/3 Chapter 6/07/3
23	920100100004	Fuse	2	Chapter 6/04/4 Chapter 6/05/4 Chapter 6/06/4 Chapter 6/07/4
24	920100100007	Fuse	2	Chapter 6/04/5 Chapter 6/05/5 Chapter 6/06/5 Chapter 6/07/5
25	920100200003	Fuse	2	Chapter 6/06/14 Chapter 6/07/14
26	505633510001	Proximity Switch	1	Chapter 7/03/9
27	920100300001	Fuse	4	Chapter 6/08/8 Chapter 6/09/8 Chapter 6/10/8 Chapter 6/11/8
28	940500200008	Bushing	4	Chapter 7/04/3

1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

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29	940400100039	Air Spring	1	Chapter 7/04/6
30	505633510002	Proximity Switch	1	Chapter 7/04/15