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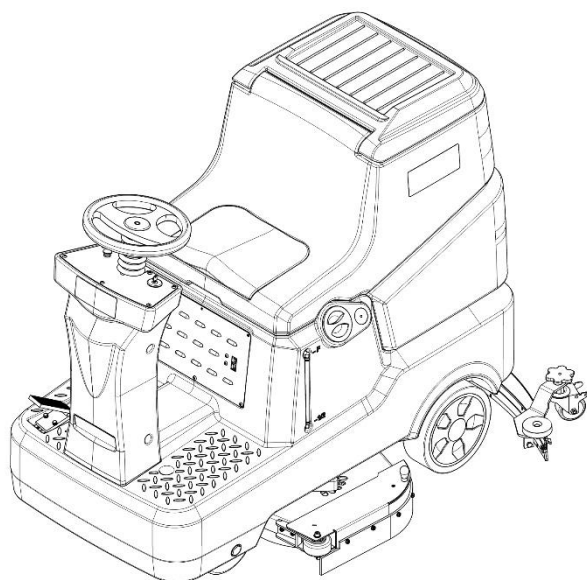


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**Rider scrubber NR810**

**Parts Manual**

**590446020101**



Version V09

Scrubber Identification Number From:

Parts Manual NR810-PM09EN

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Please order parts from authorized dealers of our company.

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 our company 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.

This parts manual is the property of our company and can be shared under the confidential agreement only, our company has the right to claim for compensation of any unauthorized use. Copy without permission is not allowed. Figures in the manual are not limited by the original design. our company reserves the right to improve the products for continuous technology progress.

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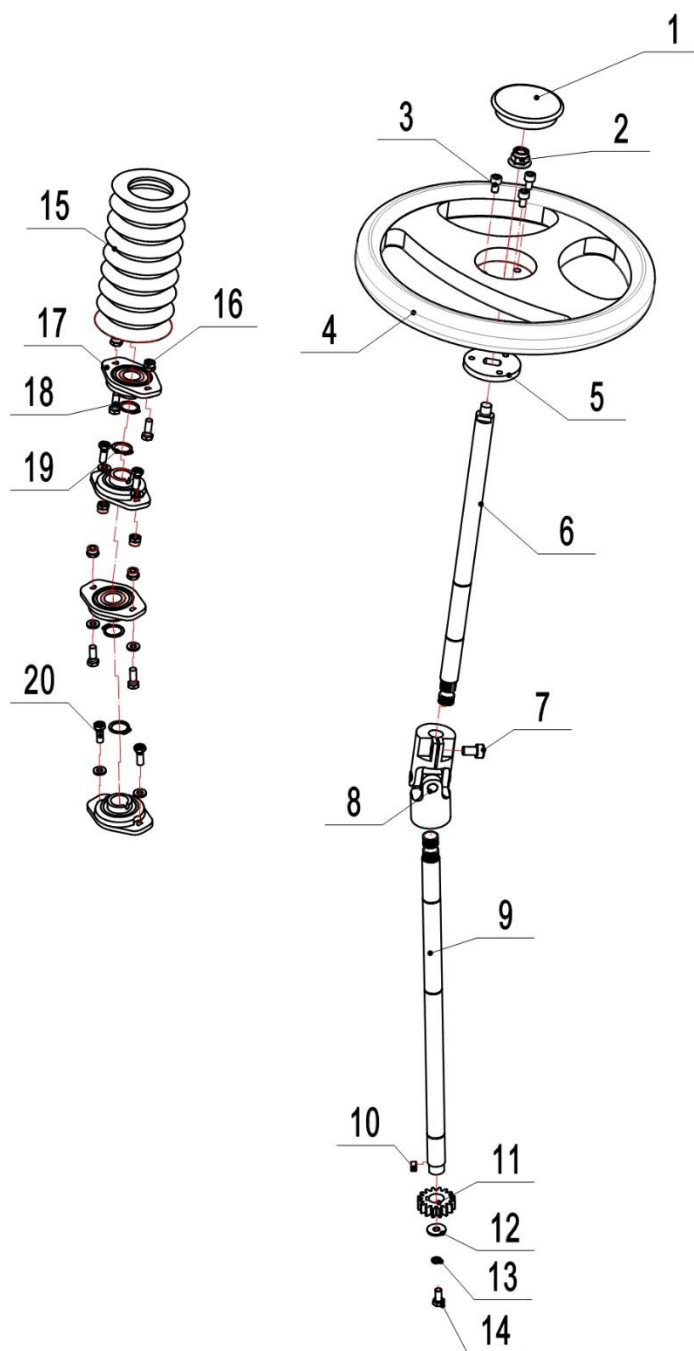
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## Chapter 1: Drive system

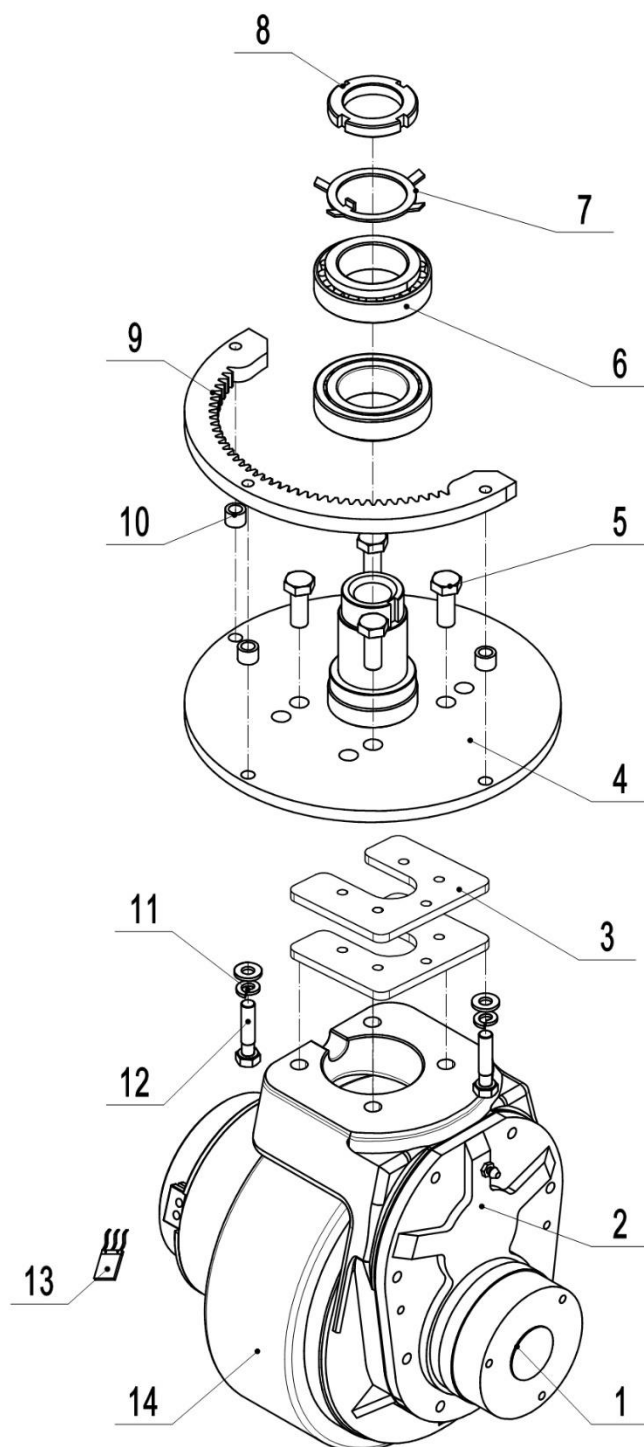
### 01 Steering machine (590446013501)



590446013501

## 01 Steering machine (590446013501)

| No. | Item Code    | Mark | Item Description   | Qty. | Substitute | Note |
|-----|--------------|------|--------------------|------|------------|------|
| 1   | 590498520132 |      | Steering Wheel Cap | 1    |            |      |
| 2   | 590198520065 |      | Nut M10            | 1    |            |      |
| 3   | 590398520056 |      | Screw M6x10        | 3    |            |      |
| 4   | 590498520050 |      | Steering Wheel     | 1    |            |      |
| 5   | 590398520039 |      | Fixed Sheet Metal  | 1    |            |      |
| 6   | 590498520041 |      | Shaft              | 1    |            |      |
| 7   | 590198520100 |      | Screw M8x25        | 2    |            |      |
| 8   | 590398520077 |      | Universal Joint    | 1    |            |      |
| 9   | 590398520033 |      | Lower Shaft        | 1    |            |      |
| 10  | 590398520076 |      | Key                | 1    |            |      |
| 11  | 590398520037 |      | Gear               | 1    |            |      |
| 12  | 590398520051 |      | Gasket             | 1    |            |      |
| 13  | 590198520075 |      | Spring Washer      | 1    |            |      |
| 14  | 590398520055 |      | Screw M6x12        | 1    |            |      |
| 15  | 590498520137 |      | Protective Cover   | 1    |            |      |
| 16  | 590198520067 |      | Nut M6             | 6    |            |      |
| 17  | 590398520067 |      | Bearing Base       | 4    |            |      |
| 18  | 590198520087 |      | Screw M6x20        | 6    |            |      |
| 19  | 590398520061 |      | Circlip            | 4    |            |      |
| 20  | 590398520048 |      | Screw M6x20        | 2    |            |      |

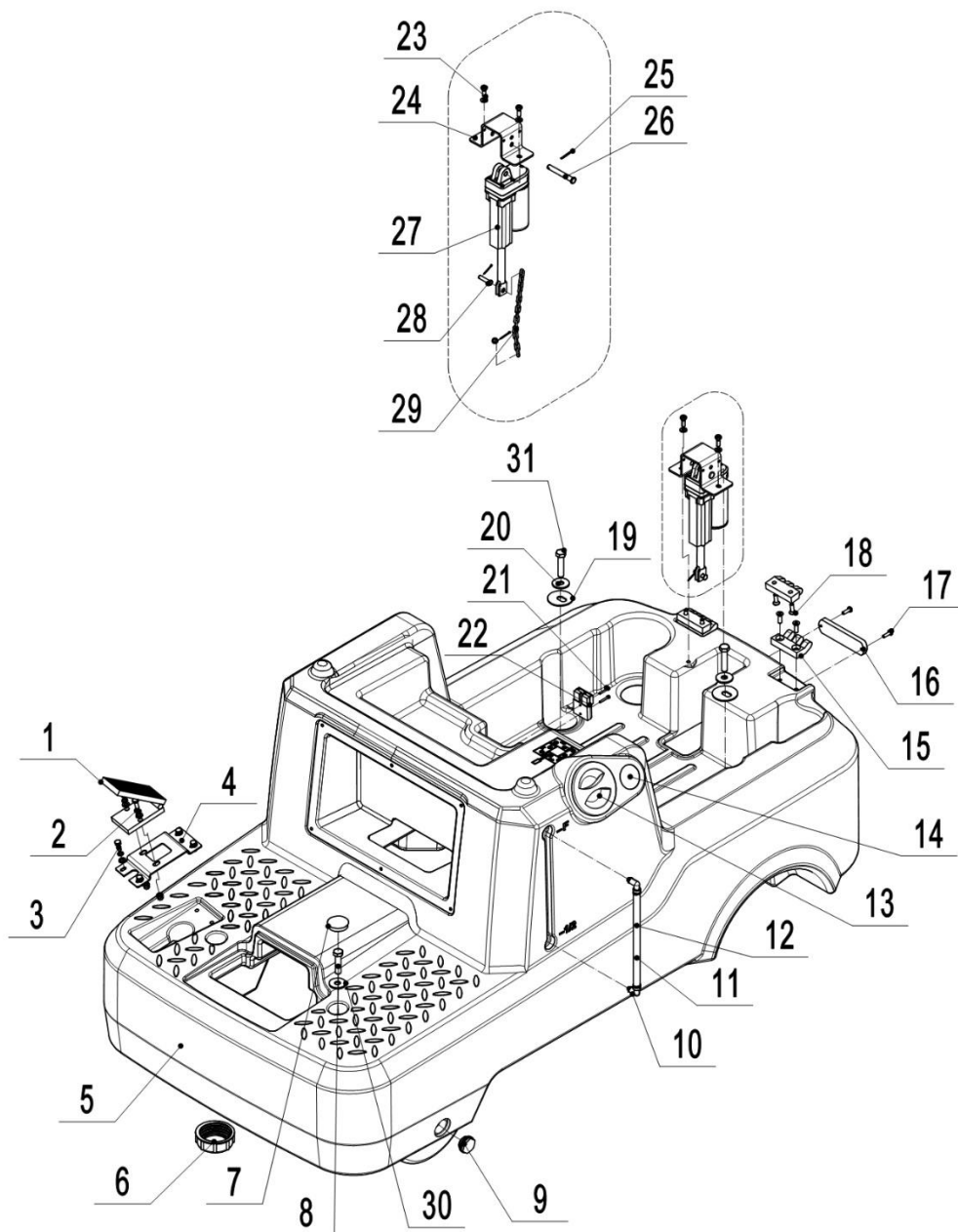
**02 Drive unit (590446013502)****590446013502**

## 02 Drive unit (590446013502)

| No. | Item Code    | Mark | Item Description | Qty. | Substitute | Note |
|-----|--------------|------|------------------|------|------------|------|
| 1   | 590498520310 |      | Brake            | 1    |            |      |
| 2   | 590498520056 |      | Drive Motor      | 1    |            |      |
| 3   | 590498520097 |      | Raising Plate    | 2    |            |      |
| 4   | 590498520029 |      | Mounting Plate   | 1    |            |      |
| 5   | 590198520150 |      | Screw M8x35      | 5    |            |      |
| 6   | 590398520075 |      | Bearing          | 2    |            |      |
| 7   | 590398520054 |      | Gasket           | 1    |            |      |
| 8   | 590398520065 |      | Nut M36          | 1    |            |      |
| 9   | 590498520042 |      | Ring Gear        | 1    |            |      |
| 10  | 590498520133 |      | Spacer Bush      | 3    |            |      |
| 11  | 590198520074 |      | Spring Washer    | 8    |            |      |
| 12  | 590198520145 |      | Screw M8x30      | 3    |            |      |
| 13  | 590498520305 |      | Carbon Brush     | 1    |            |      |
| 14  | 590498520309 |      | Motor Pulley     | 1    |            |      |

## Chapter 2: Truck Frame

### 01 Solution tank (590446021501)

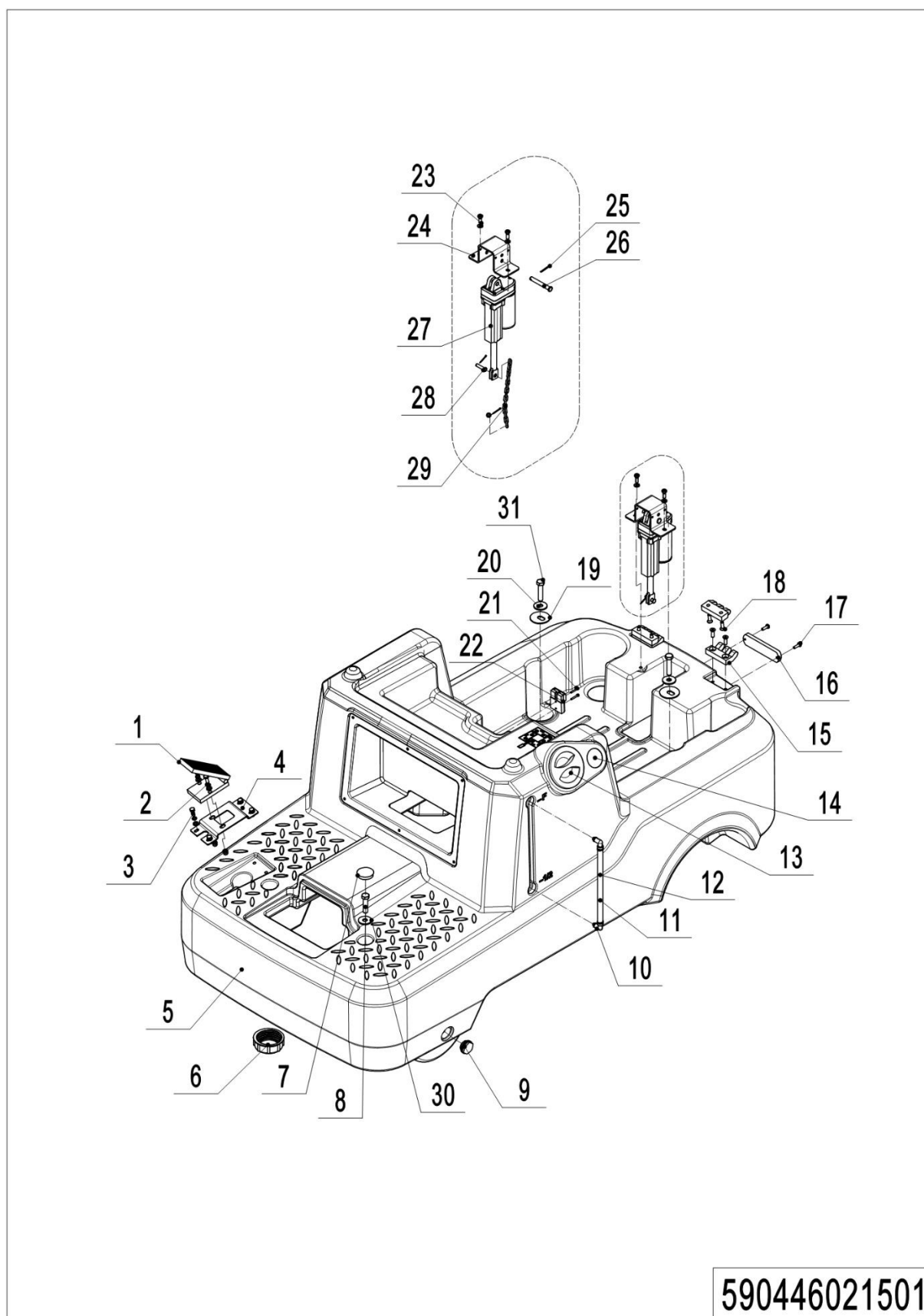


590446021501

## 01 Solution tank (590446021501)

| No. | Item Code    | Mark | Item Description  | Qty. | Substitute | Note           |
|-----|--------------|------|-------------------|------|------------|----------------|
| 1   | 590398510006 |      | Accelerator       | 1    |            |                |
| 1   | 590398520107 |      | Accelerator       | 1    |            | For Li-battery |
| 2   | 590198520142 |      | Screw M6x16       | 2    |            |                |
| 2   | 590198520104 |      | Screw M8x16       | 2    |            | For Li-battery |
| 3   | 590198520142 |      | Screw M6x16       | 4    |            |                |
| 4   | 590398520022 |      | Sheet Metal       | 4    |            |                |
| 4   | 590398520108 |      | Fixed Plate       | 1    |            | For Li-battery |
| 5   | 590498510001 |      | Solution Tank     | 1    |            |                |
| 6   | 590398520008 |      | Drain Cap         | 1    |            |                |
| 7   | 590498520017 |      | Cap               | 2    |            |                |
| 8   | 590498520065 |      | Screw M10x45      | 4    |            |                |
| 9   | 590498520300 |      | Oil Gauge         | 1    |            |                |
| 10  | 590198520128 |      | Right-angle Joint | 2    |            |                |
| 11  | 590498520239 |      | Hose              | 1    |            | 0.23m          |
| 12  | 590198520130 |      | Floating Ball     | 1    |            |                |
| 13  | 590398520007 |      | Water Filling Cap | 1    |            |                |
| 14  | 590498520053 |      | Water Pipe        | 1    |            |                |
| 15  | 590498520126 |      | Hinge             | 2    |            |                |
| 16  | 590398510010 |      | Warning Light     | 1    |            |                |
| 17  | 590198520092 |      | Screw M4x10       | 2    |            |                |
| 18  | 590498520304 |      | Screw M6x16       | 8    |            |                |
| 19  | 590498520302 |      | Gasket            | 2    |            |                |
| 20  | 590498520303 |      | Rubber Gasket     | 2    |            |                |
| 21  | 590498520082 |      | Screw M5x30       | 2    |            |                |
| 22  | 590498510010 |      | Wire Harness      | 1    |            |                |
| 23  | 590198520142 |      | Screw M6x16       | 2    |            |                |
| 24  | 590498520138 |      | Mounting Plate    | 1    |            |                |
| 25  | 590398520069 |      | Pin               | 3    |            |                |
| 26  | 590498520068 |      | Pin Shaft         | 1    |            |                |
| 27  | 590498510009 |      | Push Motor        | 1    |            |                |

## 01 Solution tank (590446021501) Continuation

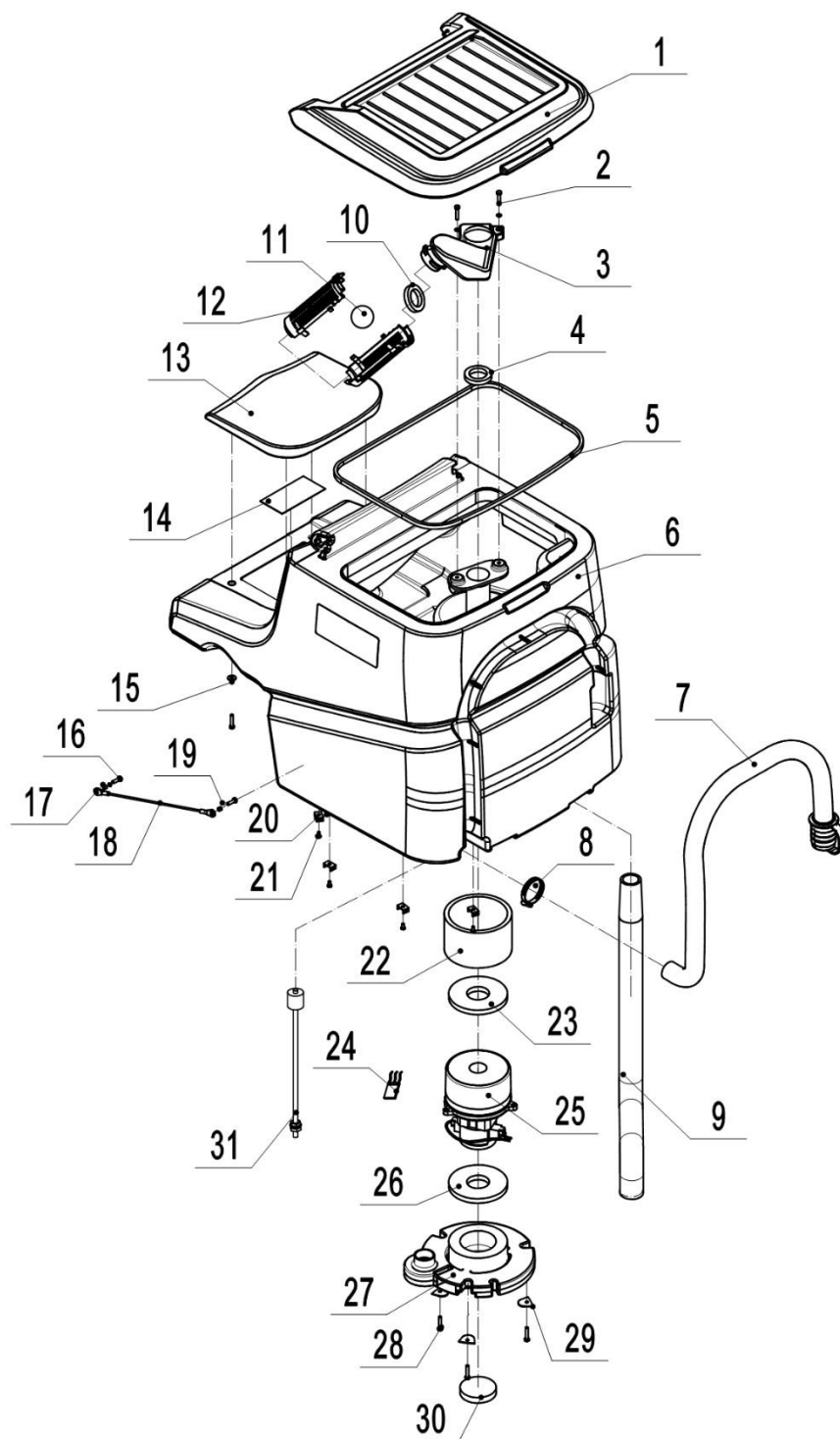


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**01 Solution tank (590446021501) Continuation**

| <b>No.</b> | <b>Item Code</b> | <b>Mark</b> | <b>Item Description</b> | <b>Qty.</b> | <b>Substitute</b> | <b>Note</b> |
|------------|------------------|-------------|-------------------------|-------------|-------------------|-------------|
| 28         | 590398520059     |             | Pin Shaft               | 2           |                   |             |
| 29         | 590498520128     |             | Chain                   | 1           |                   | 0.3m        |
| 30         | 590198520080     |             | Gasket                  | 2           |                   |             |
| 31         | 590498520065     |             | Screw M10x45            | 2           |                   |             |

## 02 Recovery tank (590446021502)

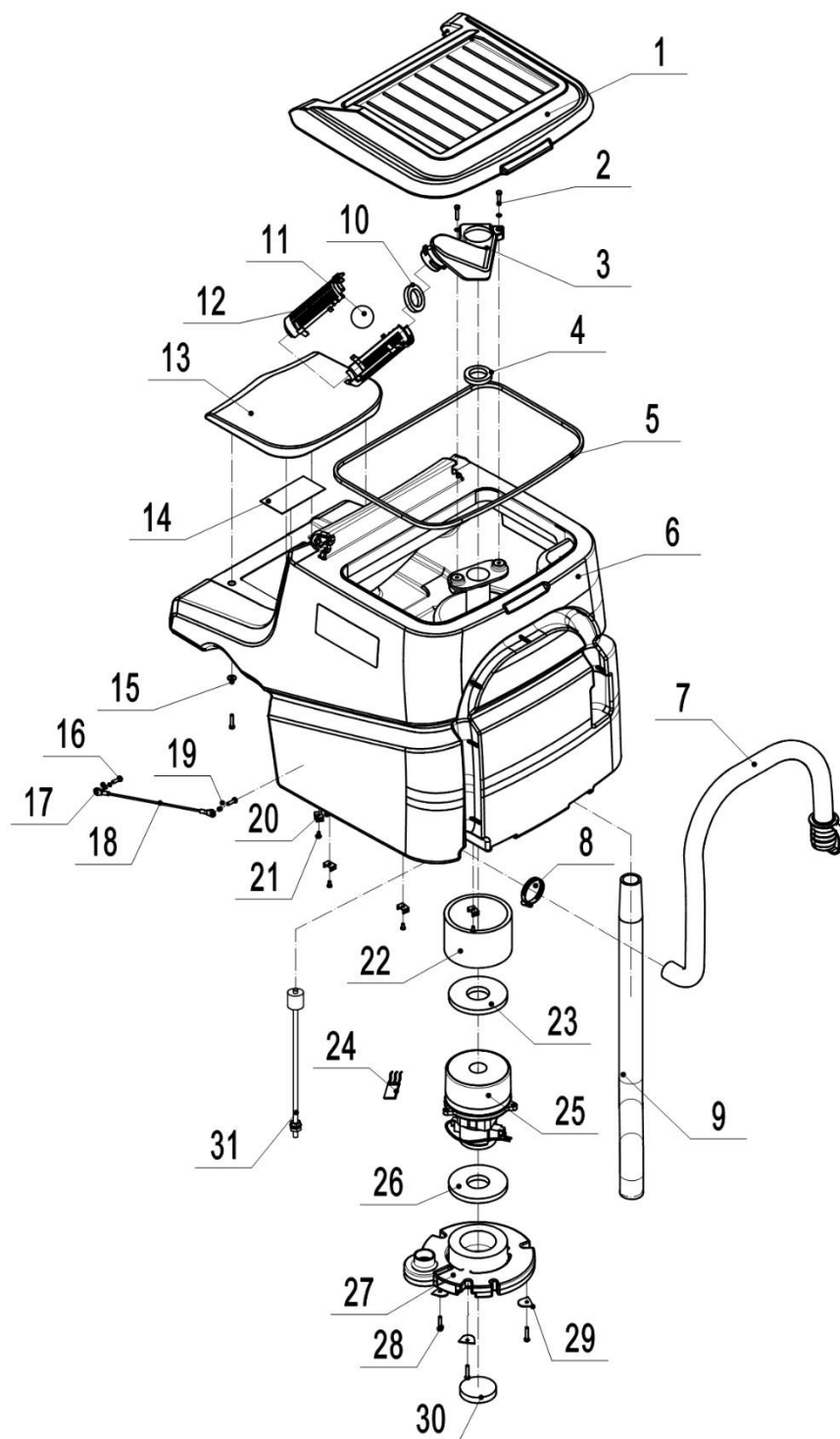


590446021502

## 02 Recovery tank (590446021502)

| No. | Item Code    | Mark | Item Description           | Qty. | Substitute | Note  |
|-----|--------------|------|----------------------------|------|------------|-------|
| 1   | 590498520022 |      | Recovery Tank Cap          | 1    |            |       |
| 2   | 590198520144 |      | Screw M6x25                | 2    |            |       |
| 3   | 590198520013 |      | Floating Ball Cage Bracket | 1    |            |       |
| 4   | 590198520059 |      | Sealing Pad                | 1    |            |       |
| 5   | 590498520261 |      | Sealing Strip              | 1    |            | 1.65m |
| 6   | 590498520020 |      | Recovery Tank              | 1    |            |       |
| 7   | 590498520055 |      | Drain Hose                 | 1    |            |       |
| 8   | 590198520105 |      | Hoop                       | 1    |            |       |
| 9   | 590498520054 |      | Suction Pipe               | 1    |            |       |
| 10  | 590198520207 |      | Sealing Ring               | 1    |            |       |
| 11  | 590198520015 |      | Floating Ball              | 1    |            |       |
| 12  | 590198520014 |      | Floating Ball Cage         | 2    |            |       |
| 13  | 590398520043 |      | Seat Pad                   | 1    |            |       |
| 14  | 590498520136 |      | Seat Switch                | 1    |            |       |
| 15  | 590198520085 |      | Screw M6x30                | 4    |            |       |
| 16  | 590198520083 |      | Screw M6x16                | 2    |            |       |
| 17  | 590398520074 |      | Spacer Bush                | 2    |            |       |
| 18  | 590398520073 |      | Rope                       | 1    |            |       |
| 19  | 590198520079 |      | Gasket                     | 11   |            |       |
| 20  | 590198520095 |      | Ribbon Base                | 6    |            |       |
| 21  | 590198520091 |      | Screw M5x12                | 6    |            |       |
| 22  | 590198520056 |      | Silencing Foam             | 1    |            |       |
| 23  | 590198520054 |      | Sealing Ring               | 1    |            |       |
| 24  | 590498520306 |      | Carbon Brush               | 1    |            |       |
| 25  | 590498510008 |      | Vacuum Motor               | 1    |            |       |
| 26  | 590198520197 |      | Sealing Pad                | 1    |            |       |
| 27  | 590198520020 |      | Motor Pressure Plate       | 1    |            |       |
| 28  | 590198520085 |      | Screw M6x30                | 3    |            |       |
| 29  | 590198520040 |      | Fixed Flat                 | 3    |            |       |
| 30  | 590198520058 |      | Filter Foam                | 1    |            |       |

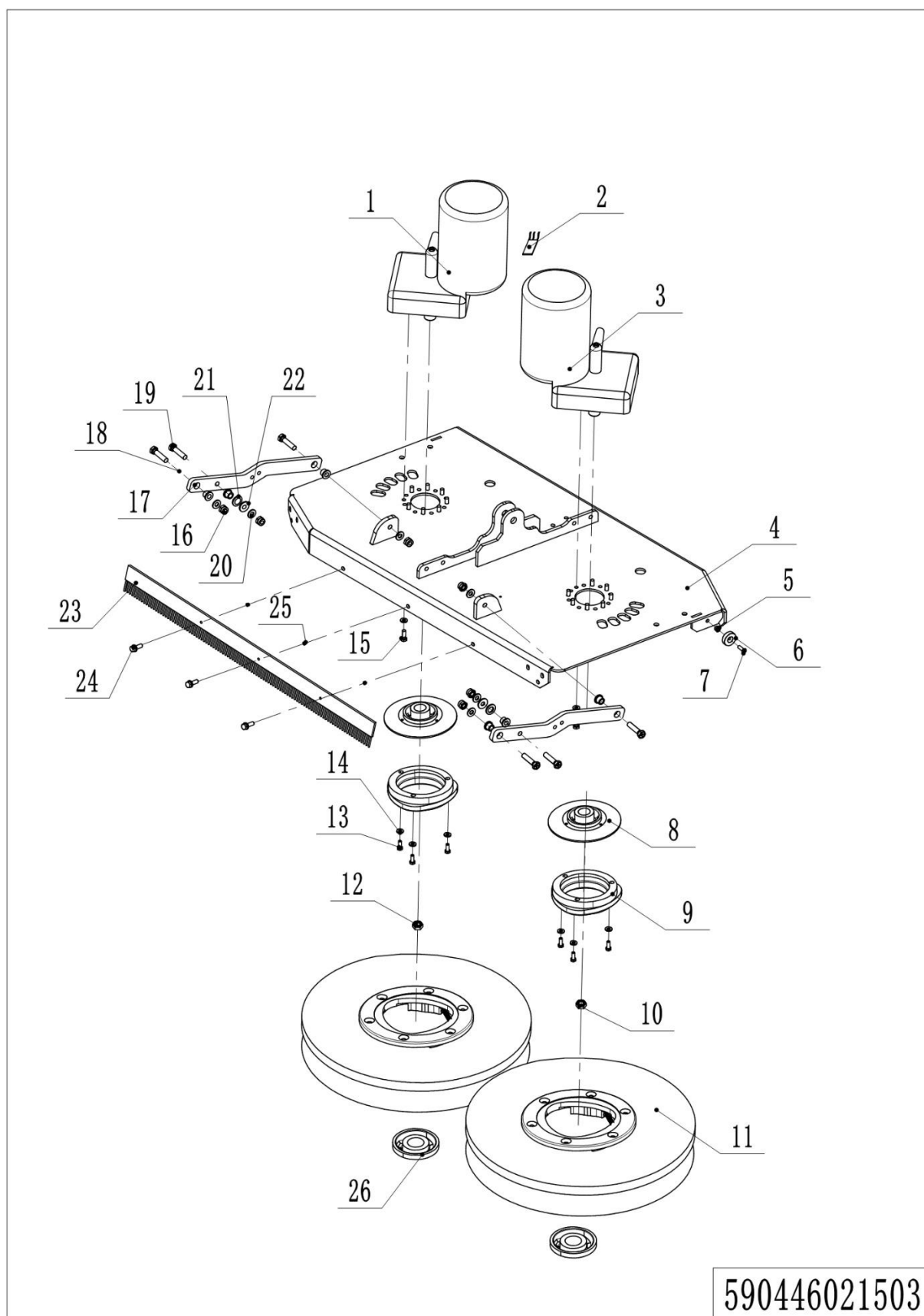
## 02 Recovery tank (590446021502) Continuation



590446021502

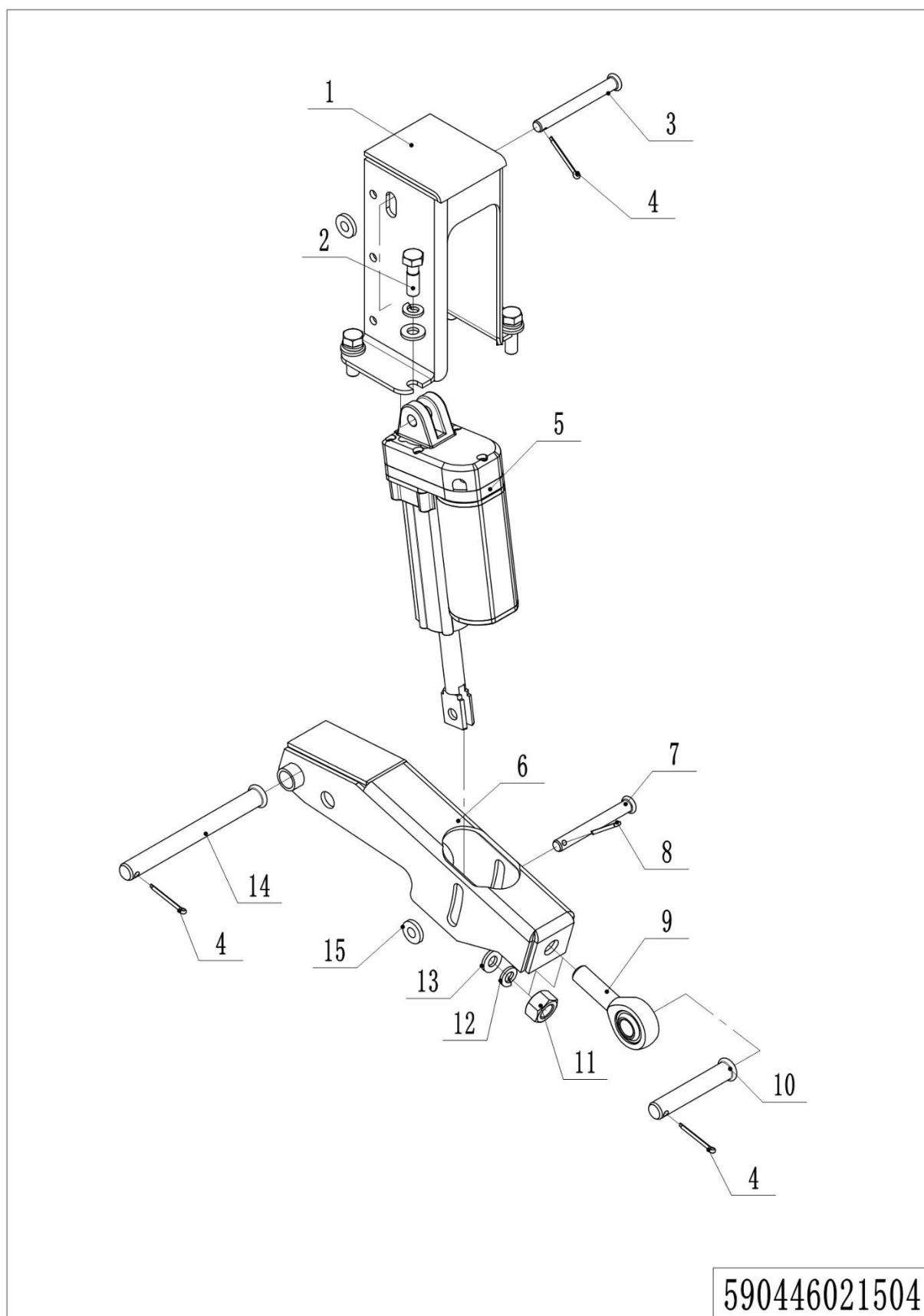
## 02 Recovery tank (590446021502) Continuation

| No. | Item Code    | Mark | Item Description | Qty. | Substitute | Note |
|-----|--------------|------|------------------|------|------------|------|
| 31  | 590498520125 |      | Sensor           | 1    |            |      |

**03 Brush system (590446021503)**

## 03 Brush system (590446021503)

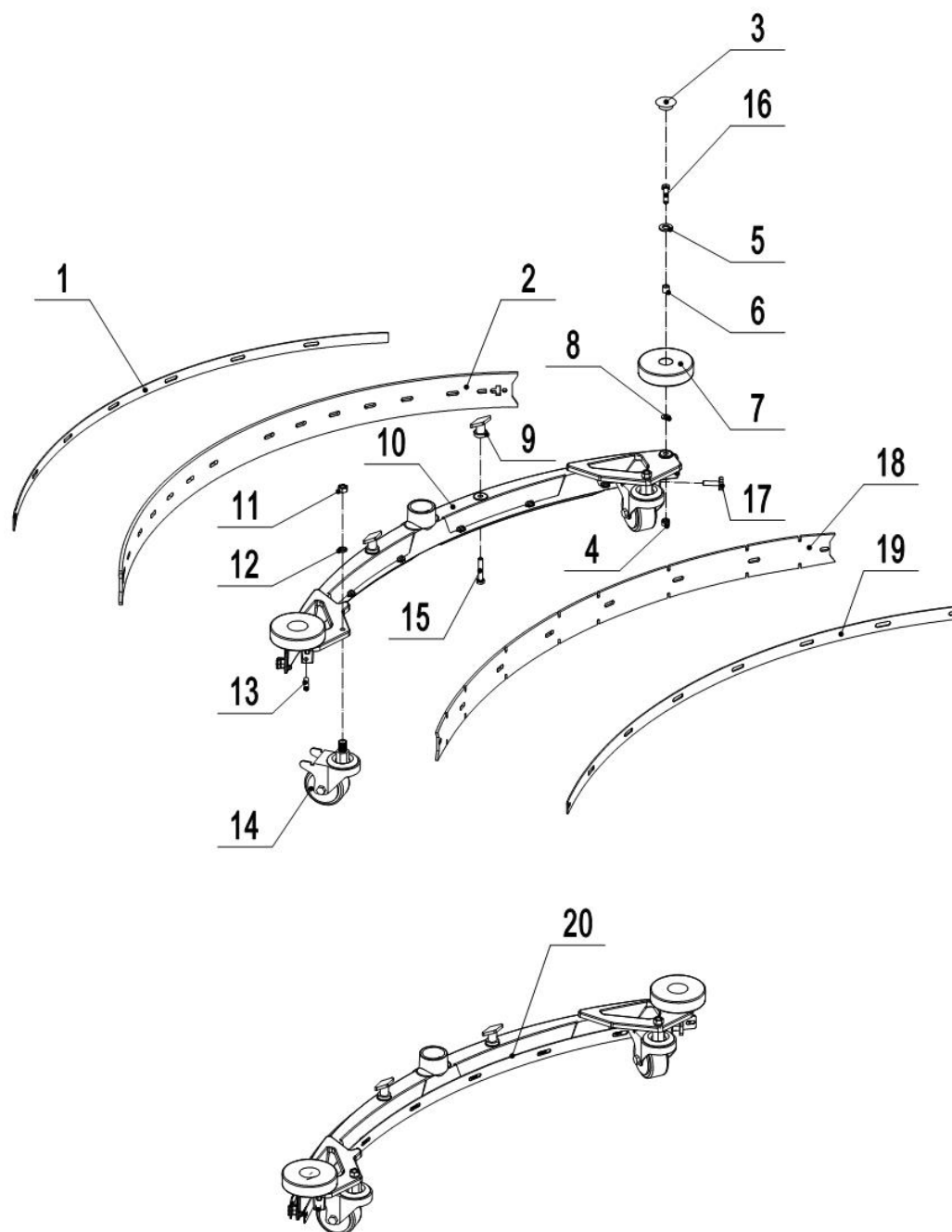
| No. | Item Code    | Mark | Item Description     | Qty. | Substitute | Note            |
|-----|--------------|------|----------------------|------|------------|-----------------|
| 1   | 590498510005 |      | Brush Motor          | 1    |            |                 |
| 2   | 590198520199 |      | Carbon Brush         | 2    |            |                 |
| 3   | 590498510006 |      | Brush Motor          | 1    |            |                 |
| 4   | 590498520030 |      | Brush Cap            | 1    |            |                 |
| 5   | 590498520079 |      | Nut M4               | 2    |            |                 |
| 6   | 590498520077 |      | Magnet               | 2    |            |                 |
| 7   | 590498520067 |      | Screw M5x20          | 2    |            |                 |
| 8   | 590198520045 |      | Locator Plate        | 2    |            |                 |
| 9   | 590198520010 |      | Brush Buckle         | 2    |            |                 |
| 10  | 590398520064 |      | Nut M20              | 1    |            |                 |
| 11  | 590498510013 |      | 15 inch Brush        | 2    |            |                 |
| 11  | 590498520112 |      | 15 inch Brush (Soft) | 2    |            | Optional        |
| 11  | 590498520113 |      | 15 inch Brush (Hard) | 2    |            | Optional        |
| 11  | 590498510014 |      | 15 inch Needle Disk  | 2    |            |                 |
| 12  | 590198520072 |      | Nut M20              | 1    |            |                 |
| 13  | 590198520087 |      | Screw M6x20          | 6    |            |                 |
| 14  | 590198520075 |      | Spring Washer        | 6    |            |                 |
| 15  | 590198520142 |      | Screw M6x16          | 8    |            |                 |
| 16  | 590198520066 |      | Nut M8               | 6    |            |                 |
| 17  | 590498520033 |      | Linkage              | 2    |            |                 |
| 18  | 590398520072 |      | Spacer Bush          | 6    |            |                 |
| 19  | 590198520145 |      | Screw M8x30          | 6    |            |                 |
| 20  | 590198520117 |      | Washer               | 6    |            |                 |
| 21  | 590198520028 |      | Nylon Washer         | 2    |            |                 |
| 22  | 590398520085 |      | Gasket               | 2    |            |                 |
| 23  | 590498520312 |      | Brush Strip          | 1    |            |                 |
| 24  | 590398520048 |      | Screw M6x20          | 3    |            |                 |
| 25  | 590198520067 |      | Nut M6               | 3    |            |                 |
| 26  | 590198520206 |      | Brush Buckle         | 2    |            |                 |
| 26  | 590198520220 |      | Locating buckle      | 2    |            | For Needle Disk |

**04 Front electric motor assembly (590446021504)**

### 04 Front electric motor assembly (590446021504)

| No. | Item Code    | Mark | Item Description | Qty. | Substitute | Note |
|-----|--------------|------|------------------|------|------------|------|
| 1   | 590498520037 |      | Mounting Plate   | 1    |            |      |
| 2   | 590398520057 |      | Screw M8x16      | 4    |            |      |
| 3   | 590498520070 |      | Pin Shaft        | 1    |            |      |
| 4   | 590198520180 |      | Pin              | 3    |            |      |
| 5   | 590498510004 |      | Push Motor       | 1    |            |      |
| 6   | 590498520034 |      | Lifting Linkage  | 1    |            |      |
| 7   | 590498520068 |      | Pin Shaft        | 1    |            |      |
| 8   | 590498520145 |      | Card Pin         | 1    |            |      |
| 9   | 590498510011 |      | Joint Bearing    | 1    |            |      |
| 10  | 590498520071 |      | Pin Shaft        | 1    |            |      |
| 11  | 590498520074 |      | Nut M12          | 1    |            |      |
| 12  | 590198520111 |      | Spring Washer    | 1    |            |      |
| 13  | 590498520146 |      | Gasket           | 1    |            |      |
| 14  | 590498520072 |      | Pin Shaft        | 1    |            |      |
| 15  | 590398520002 |      | Gasket           | 2    |            |      |

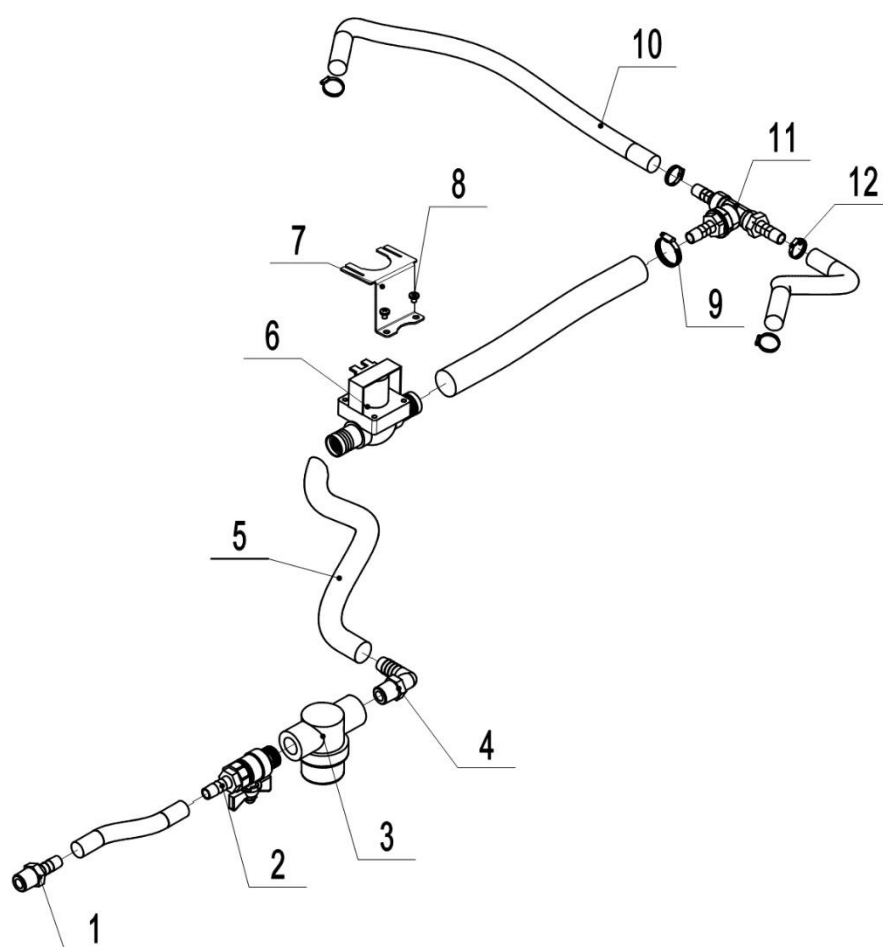
## 05 Squeegee system (590446021505)



590446021505

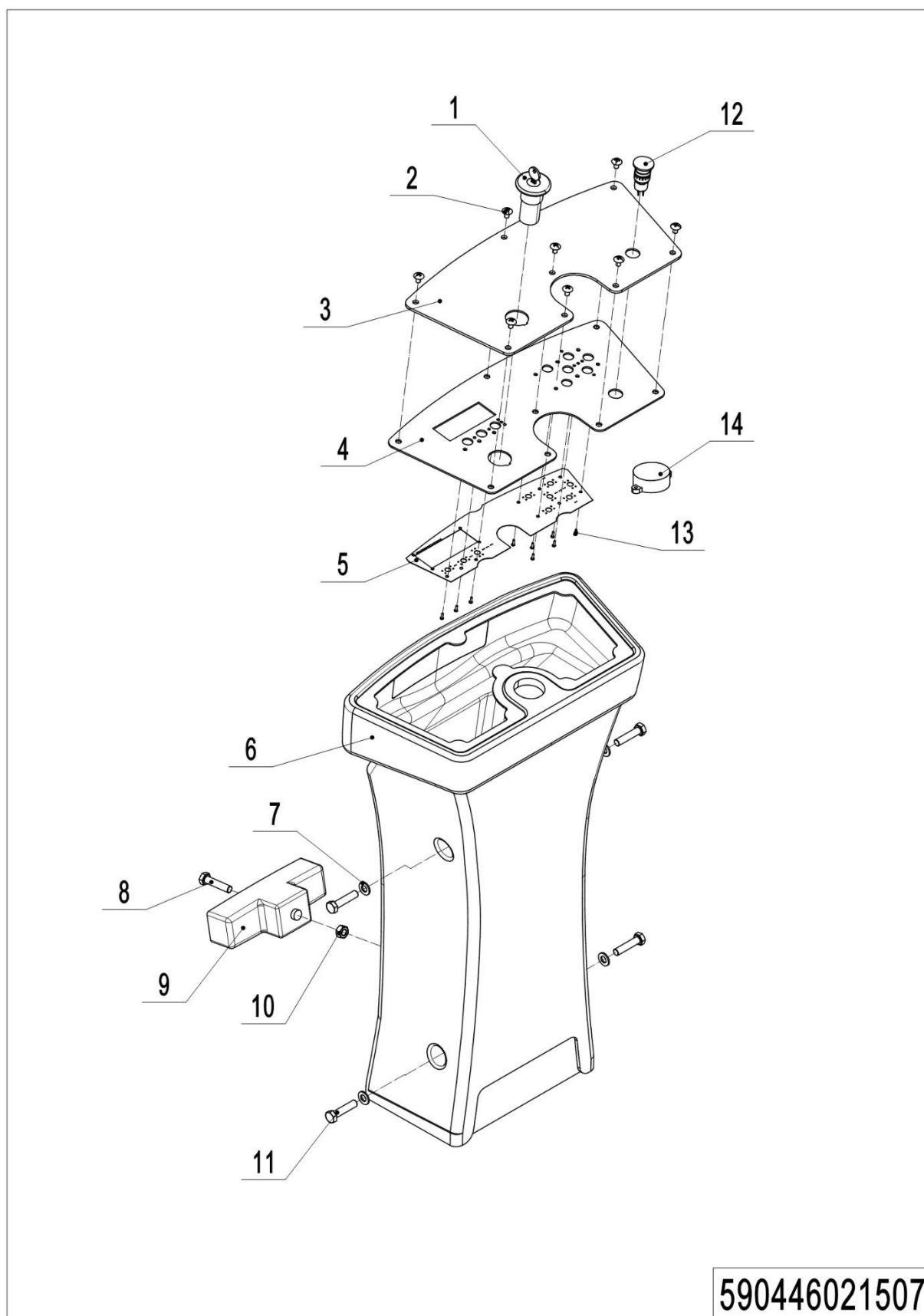
## 05 Squeegee system (590446021505)

| No. | Item Code    | Mark | Item Description | Qty. | Substitute | Note      |
|-----|--------------|------|------------------|------|------------|-----------|
| 1   | 590498520093 |      | Rear Batten      | 1    |            |           |
| 2   | 590498520094 |      | Rear Blade       | 1    |            |           |
| 2   | 590498520116 |      | Rear Blade (NR)  | 1    |            | Optional  |
| 2   | 590498520117 |      | Rear Blade (PU)  | 1    |            | Optional  |
| 3   | 590498520139 |      | Wheel Cap        | 2    |            |           |
| 4   | 590198520066 |      | Nut M8           | 2    |            |           |
| 5   | 590198520109 |      | Gasket           | 2    |            |           |
| 6   | 590498520140 |      | Spacer Bush      | 2    |            |           |
| 7   | 590498520096 |      | Bumper Wheel     | 2    |            |           |
| 8   | 590498520143 |      | Gasket           | 2    |            |           |
| 9   | 590498520092 |      | Knob             | 2    |            |           |
| 10  | 590498520089 |      | Squeegee Blade   | 1    |            |           |
| 11  | 590498520141 |      | Nut M10          | 2    |            |           |
| 12  | 590198520073 |      | Spring Washer    | 2    |            |           |
| 13  | 590198520149 |      | Screw M8x35      | 2    |            |           |
| 14  | 590498520095 |      | Universal Caster | 2    |            |           |
| 15  | 590498520142 |      | Screw M8x45      | 2    |            |           |
| 16  | 590198520150 |      | Screw M8x35      | 2    |            |           |
| 17  | 590198520148 |      | Screw M8x30      | 1    |            |           |
| 18  | 590498520090 |      | Front Blade      | 1    |            |           |
| 18  | 590498520114 |      | Front Blade (NR) | 1    |            | Optional  |
| 18  | 590498520115 |      | Front Blade (PU) | 1    |            | Optional  |
| 19  | 590498520091 |      | Front Batten     | 1    |            |           |
| 20  | 590498510012 |      | Squeegee         | 1    |            | W/O Blade |

**06 Solution assembly (590446021506)****590446021506**

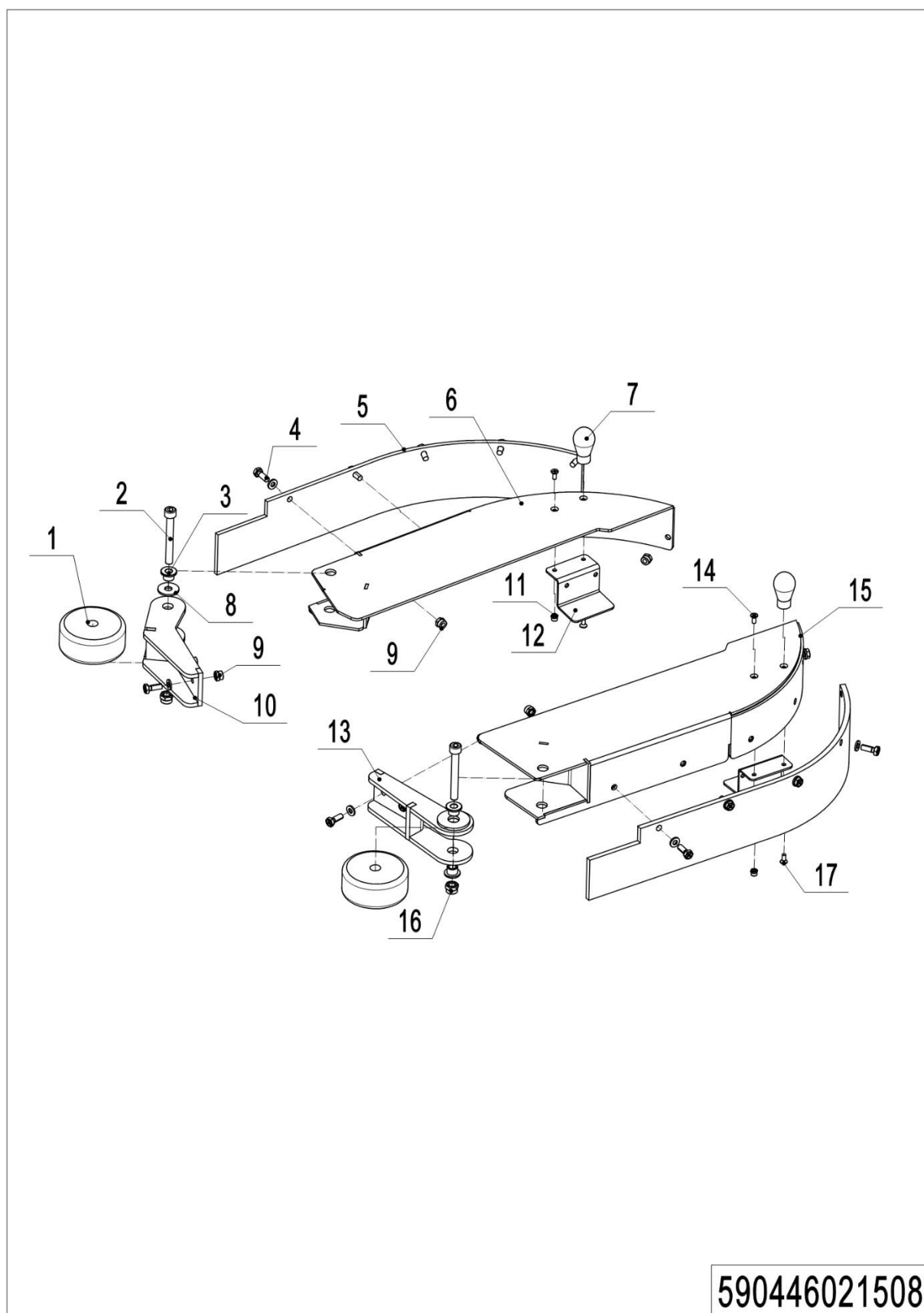
## 06 Solution assembly (590446021506)

| No. | Item Code    | Mark | Item Description  | Qty. | Substitute | Note  |
|-----|--------------|------|-------------------|------|------------|-------|
| 1   | 590498520018 |      | Connectors        | 2    |            |       |
| 2   | 590498520080 |      | Valve             | 1    |            |       |
| 3   | 590498520024 |      | Filter            | 1    |            |       |
| 4   | 590498520019 |      | Right-angle Joint | 1    |            |       |
| 5   | 590498520015 |      | Water Pipe        | 1    |            | 1m    |
| 6   | 590498510007 |      | Solenoid Valve    | 1    |            |       |
| 7   | 590498520031 |      | Fixed Plate       | 1    |            |       |
| 8   | 590198520092 |      | Screw M4x10       | 2    |            |       |
| 9   | 590498520076 |      | Hoop              | 6    |            |       |
| 10  | 590498520262 |      | Water Pipe        | 1    |            | 0.76m |
| 11  | 590498520014 |      | T-connector       | 1    |            |       |
| 12  | 590198520096 |      | Hoop              | 4    |            |       |

**07 Front body (590446021507)**

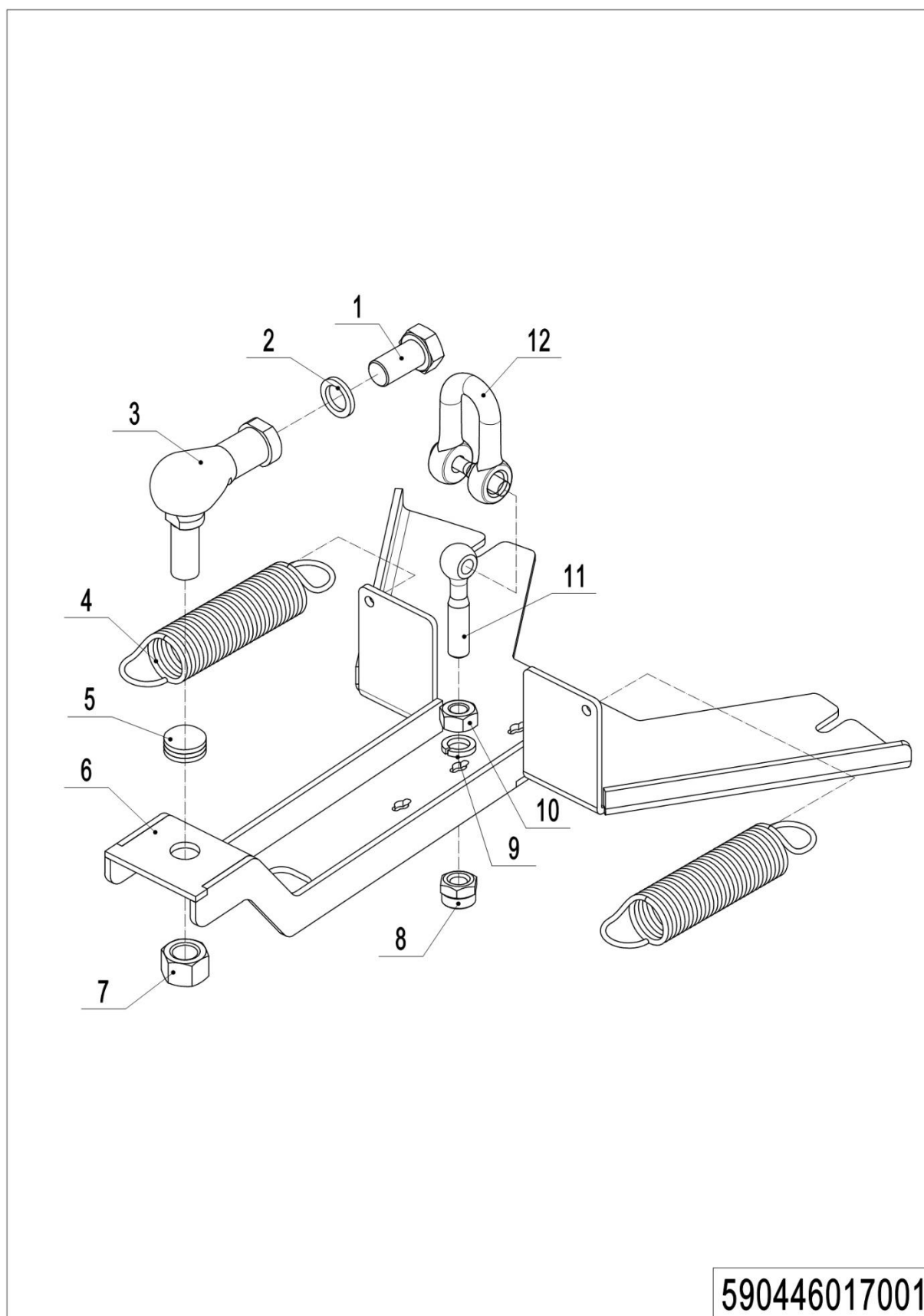
## 07 Front body (590446021507)

| No. | Item Code    | Mark | Item Description | Qty. | Substitute | Note           |
|-----|--------------|------|------------------|------|------------|----------------|
| 1   | 590398510004 |      | Key Switch       | 1    |            |                |
| 1   | 590398520111 |      | Key Switch       | 1    |            | For Li-battery |
| 2   | 590198520093 |      | Screw M5x12      | 8    |            |                |
| 3   | 590498520001 |      | Panel Stickers   | 2    |            |                |
| 4   | 590498520045 |      | Mounting Plate   | 1    |            |                |
| 4   | 590498520147 |      | Mounting Plate   | 1    |            | For Li-battery |
| 5   | 590498520129 |      | PCB              | 1    |            |                |
| 5   | 590398520110 |      | PCB              | 1    |            | For Li-battery |
| 6   | 590498520021 |      | Front Cover      | 1    |            |                |
| 7   | 590198520109 |      | Gasket           | 4    |            |                |
| 8   | 590198520082 |      | Screw M8x16      | 1    |            |                |
| 9   | 590398510009 |      | Front Light      | 1    |            |                |
| 10  | 590198520122 |      | Nut M8           | 1    |            |                |
| 11  | 590498520130 |      | Screw M8x35      | 4    |            |                |
| 12  | 590398510008 |      | Emergency Switch | 1    |            |                |
| 13  | 590398520123 |      | Stud M3x8        | 9    |            |                |
| 13  | 591398520028 |      | Screw M3x8       | 9    |            | For Li-battery |
| 14  | 590398520126 |      | Buzzer           | 1    |            |                |

**08 Retaining edge (590446021508)**

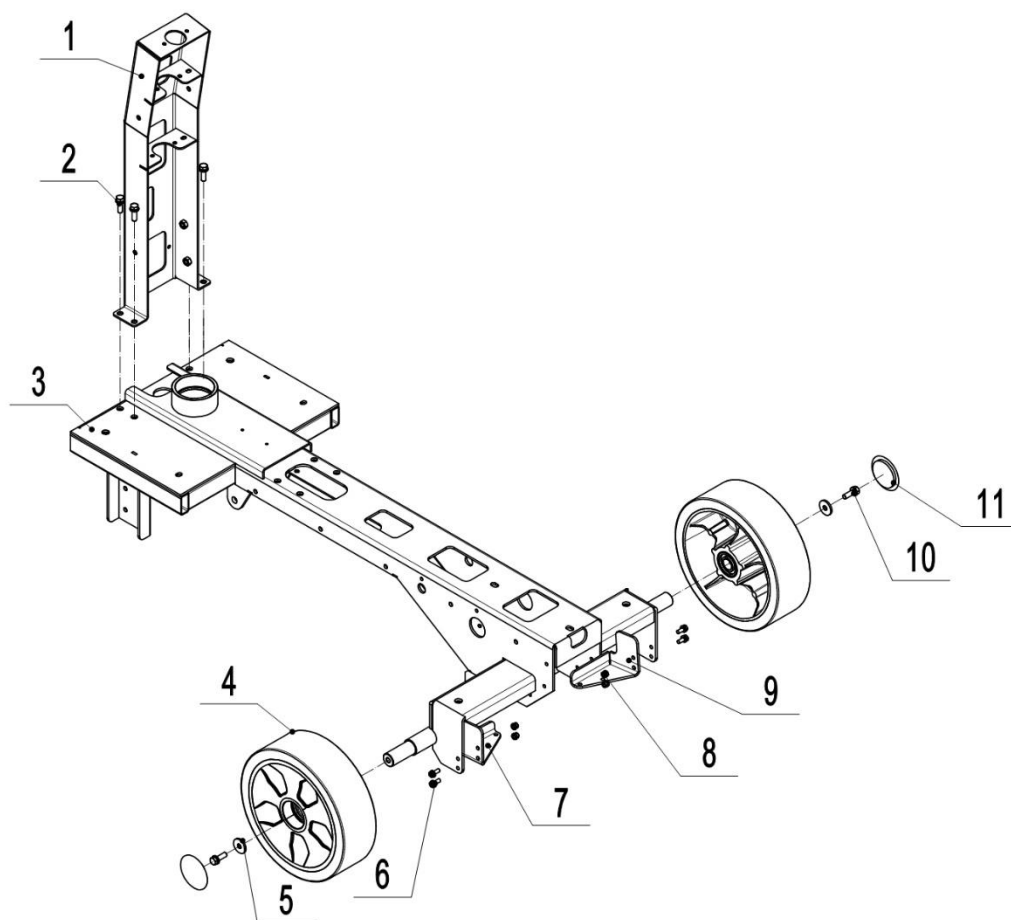
## 08 Retaining edge (590446021508)

| No. | Item Code    | Mark | Item Description | Qty. | Substitute | Note |
|-----|--------------|------|------------------|------|------------|------|
| 1   | 590498520023 |      | Bumper Wheel     | 2    |            |      |
| 2   | 590498520069 |      | Screw M8x65      | 2    |            |      |
| 3   | 590398520072 |      | Spacer Bush      | 8    |            |      |
| 4   | 590198520142 |      | Screw M6x16      | 14   |            |      |
| 5   | 590498520007 |      | Brush Strip      | 2    |            |      |
| 6   | 590498520036 |      | Wing (Right)     | 1    |            |      |
| 7   | 590498520075 |      | Lifting          | 2    |            |      |
| 8   | 590398520085 |      | Gasket           | 2    |            |      |
| 9   | 590198520067 |      | Nut M6           | 14   |            |      |
| 10  | 590498520027 |      | Bracket (Right)  | 1    |            |      |
| 11  | 590498520079 |      | Nut M4           | 2    |            |      |
| 12  | 590498520038 |      | Magnetic Sheet   | 2    |            |      |
| 13  | 590498520026 |      | Bracket (Left)   | 1    |            |      |
| 14  | 590498520064 |      | Screw M4x16      | 2    |            |      |
| 15  | 590498520035 |      | Wing (Left)      | 1    |            |      |
| 16  | 590198520066 |      | Nut M8           | 2    |            |      |
| 17  | 590198520092 |      | Screw M4x10      | 2    |            |      |

**09 Wiper frame (590446017001)**

## 09 Wiper frame (590446017001)

| No. | Item Code    | Mark | Item Description    | Qty. | Substitute | Note |
|-----|--------------|------|---------------------|------|------------|------|
| 1   | 590398520058 |      | Screw M16x25        | 1    |            |      |
| 2   | 590398520086 |      | Spring Washer       | 2    |            |      |
| 3   | 590398520066 |      | Universal Joint M16 | 1    |            |      |
| 4   | 590498520078 |      | Tension Spring      | 2    |            |      |
| 5   | 590398520053 |      | Gasket              | 4    |            |      |
| 6   | 590498520028 |      | Fixed Bracket       | 1    |            |      |
| 7   | 590398520063 |      | Nut M16             | 1    |            |      |
| 8   | 590198520066 |      | Nut M8              | 1    |            |      |
| 9   | 590198520074 |      | Spring Washer       | 1    |            |      |
| 10  | 590198520122 |      | Nut M8              | 1    |            |      |
| 11  | 590498520120 |      | Screw M8x55         | 1    |            |      |
| 12  | 590498520121 |      | Shackle             | 1    |            |      |

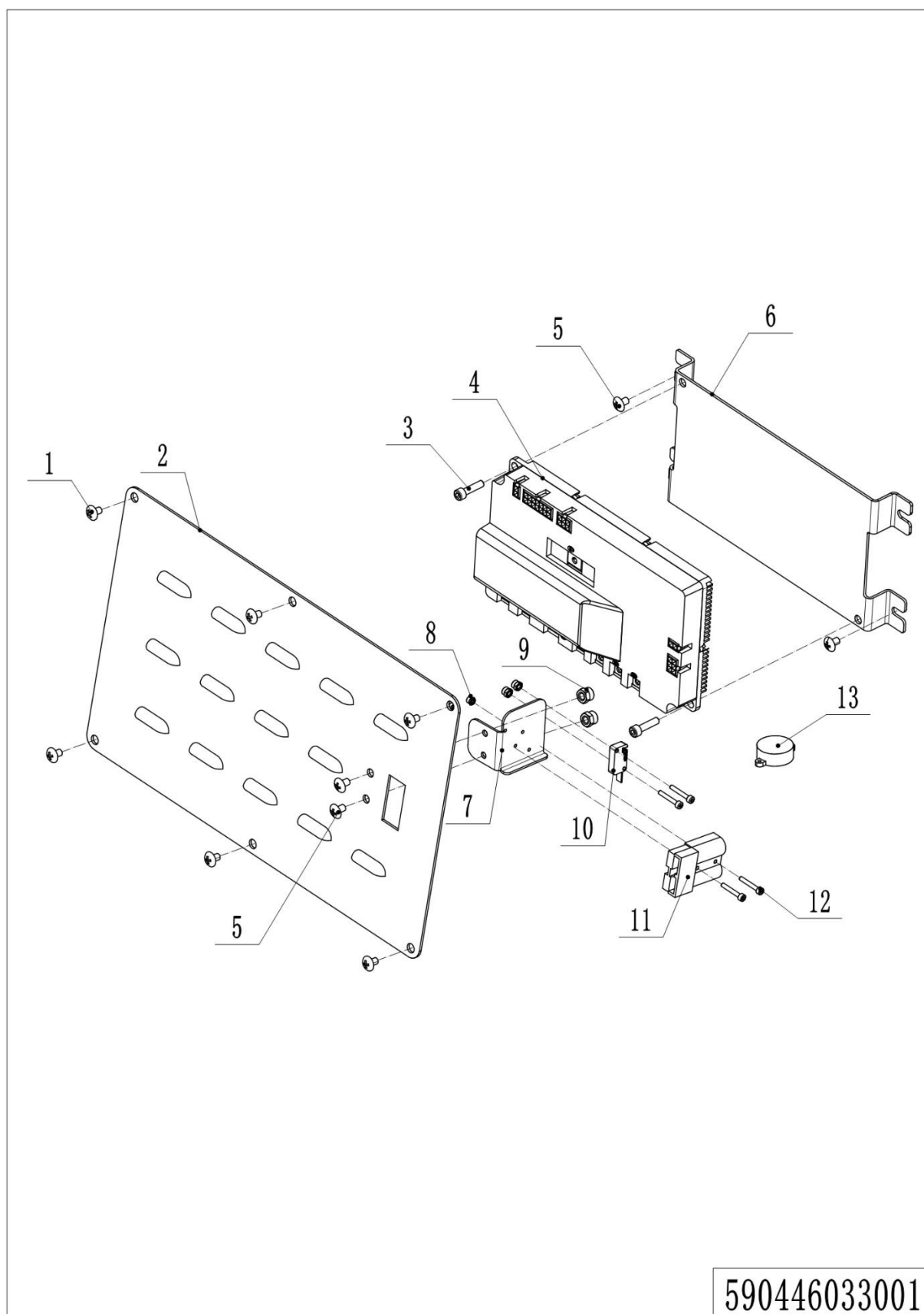
**10 Wheels (590446017002)****590446017002**

## 10 Wheels (590446017002)

| No. | Item Code    | Mark | Item Description               | Qty. | Substitute | Note |
|-----|--------------|------|--------------------------------|------|------------|------|
| 1   | 590498510003 |      | Front Pillar                   | 1    |            |      |
| 2   | 590398520057 |      | Screw M8x16                    | 4    |            |      |
| 3   | 590498510002 |      | Frame                          | 1    |            |      |
| 4   | 590498520025 |      | Wheel                          | 2    |            |      |
| 5   | 590398520002 |      | Gasket                         | 2    |            |      |
| 6   | 590398520048 |      | Screw M6x20                    | 4    |            |      |
| 7   | 590498520122 |      | Tension Spring Bracket (Left)  | 1    |            |      |
| 8   | 590198520067 |      | Nut M6                         | 4    |            |      |
| 9   | 590498520123 |      | Tension Spring Bracket (Right) | 1    |            |      |
| 10  | 590198520069 |      | Screw M8x20                    | 2    |            |      |
| 11  | 590498520131 |      | Wheel Cap                      | 2    |            |      |

## Chapter 3: Electrical parts

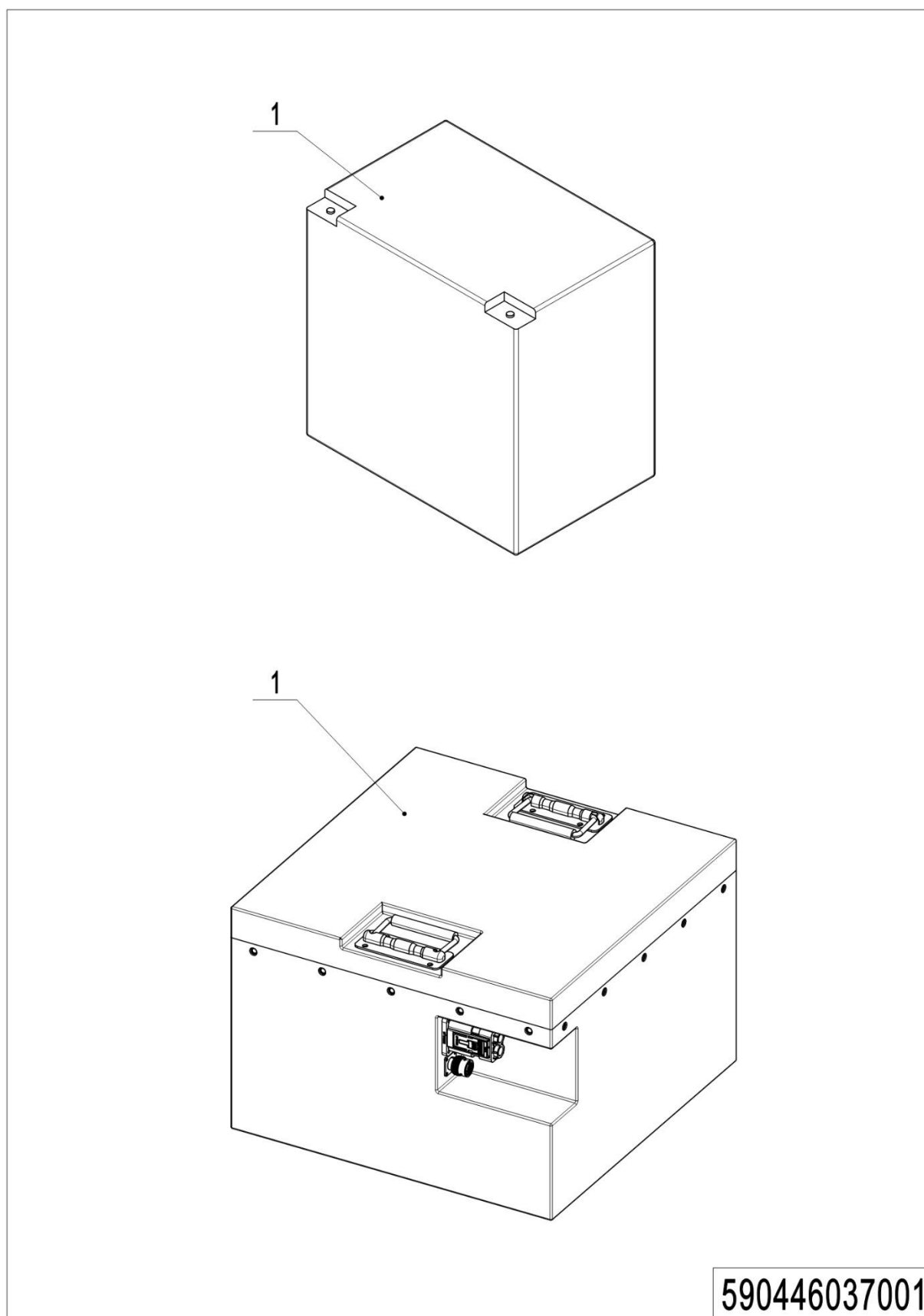
### 01 Electronic control components (590446033001)



## 01 Electronic control components (590446033001)

| No. | Item Code    | Mark | Item Description       | Qty. | Substitute | Note           |
|-----|--------------|------|------------------------|------|------------|----------------|
| 1   | 590198520191 |      | Screw M5x8             | 6    |            |                |
| 2   | 590498520311 |      | Electrical Close Plate | 1    |            |                |
| 2   | 590498520148 |      | Electrical Close Plate | 1    |            | For Li-battery |
| 3   | 590198520198 |      | Screw M6x20            | 2    |            |                |
| 3   | 590498520082 |      | Screw M5x30            | 2    |            | For Li-battery |
| 4   | 590498510015 |      | Controller             | 1    |            |                |
| 4   | 590498520150 |      | Controller             | 1    |            | For Li-battery |
| 5   | 590198520093 |      | Screw M5x12            | 4    |            |                |
| 6   | 590398520035 |      | Mounting Plate         | 1    |            |                |
| 7   | 590398520032 |      | Fixed Sheet Metal      | 1    |            |                |
| 7   | 590198520213 |      | Fixed Plate            | 1    |            | For Li-battery |
| 8   | 590198520102 |      | Nut M3                 | 4    |            |                |
| 9   | 590198520068 |      | Nut M5                 | 2    |            |                |
| 10  | 590198520219 |      | Microswitch            | 1    |            |                |
| 11  | 590498510021 |      | Wire Harness           | 1    |            |                |
| 12  | 590398520078 |      | Screw M3x20            | 4    |            |                |
| 13  | 590398520091 |      | Buzzer                 | 1    |            | For Li-battery |

## 02 Traction Battery (590446037001)

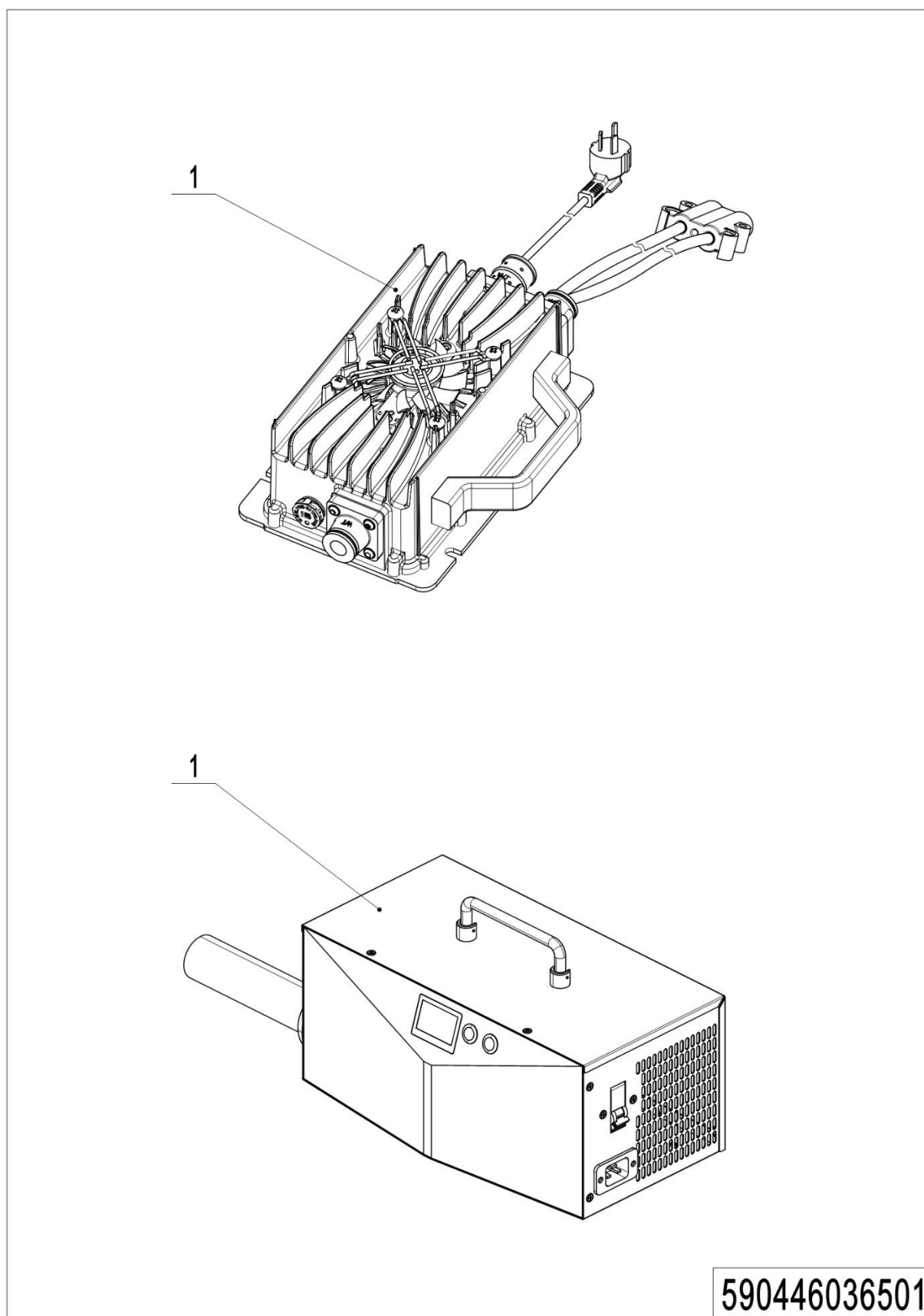


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**02 Traction Battery (590446037001)**

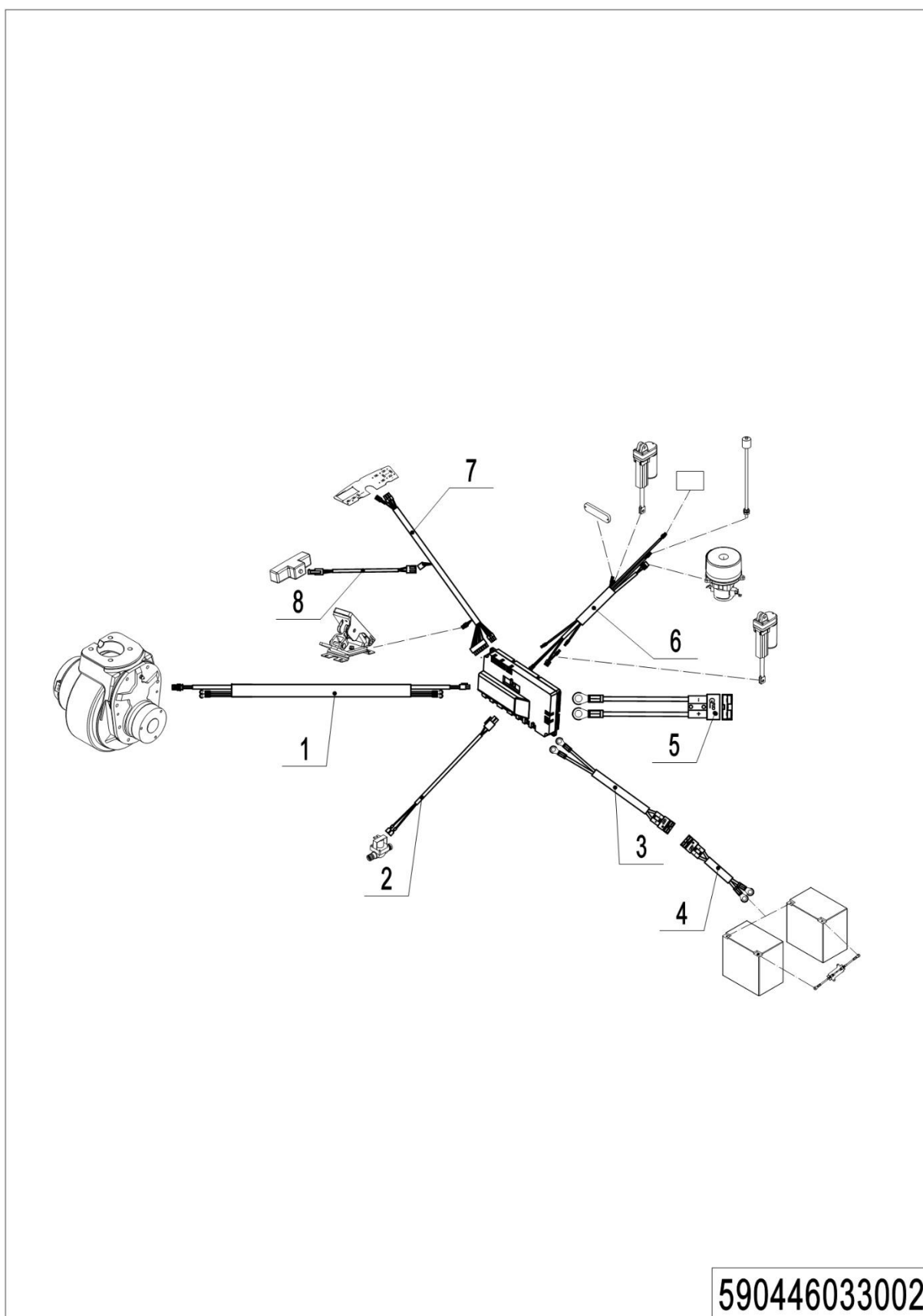
| No. | Item Code    | Mark | Item Description      | Qty. | Substitute | Note           |
|-----|--------------|------|-----------------------|------|------------|----------------|
| 1   | 590498520100 |      | Battery 6V200Ah       | 4    |            |                |
| 1   | 920600100757 |      | Li-Battery 25.6V205Ah | 1    |            | For Li-battery |

### 03 Charger (590446036501)



## 03 Charger (590446036501)

| No. | Item Code    | Mark | Item Description        | Qty. | Substitute | Note                  |
|-----|--------------|------|-------------------------|------|------------|-----------------------|
| 1   | 590498520101 |      | Charger 24V25A(Asia)    | 1    |            |                       |
| 1   | 590498520102 |      | Charger 24V25A(ENG)     | 1    |            |                       |
| 1   | 590498520103 |      | Charger 24V25A(USA)     | 1    |            |                       |
| 1   | 590498520104 |      | Charger 24V25A(EU)      | 1    |            |                       |
| 1   | 590498520105 |      | Charger 24V25A(AUS)     | 1    |            |                       |
| 1   | 590498520106 |      | Charger 24V25A(ITA)     | 1    |            |                       |
| 1   | 590498520107 |      | Charger 24V25A(CH)      | 1    |            |                       |
| 1   | 590498520108 |      | Charger 24V25A(ISR)     | 1    |            |                       |
| 1   | 590498520109 |      | Charger 24V25A(BRA)     | 1    |            |                       |
| 1   | 921000201216 |      | Li-Charger 24V25A(Asia) | 1    |            | Single-phase 110-240V |
| 1   | 921000201169 |      | Li-Charger 24V25A(USA)  | 1    |            | Single-phase 110-240V |
| 1   | 921000201171 |      | Li-Charger 24V25A(EU)   | 1    |            | Single-phase 110-240V |
| 1   | 921000201217 |      | Li-Charger 24V25A(ENG)  | 1    |            | Single-phase 110-240V |
| 1   | 921000201218 |      | Li-Charger 24V25A(AUS)  | 1    |            | Single-phase 110-240V |
| 1   | 921000201219 |      | Li-Charger 24V25A(ITA)  | 1    |            | Single-phase 110-240V |
| 1   | 921000201220 |      | Li-Charger 24V25A(CH)   | 1    |            | Single-phase 110-240V |
| 1   | 921000201221 |      | Li-Charger 24V25A(ISR)  | 1    |            | Single-phase 110-240V |
| 1   | 921000201222 |      | Li-Charger 24V25A(BRA)  | 1    |            | Single-phase 110-240V |
| 1   | 504636510000 |      | Li-Charger 24V40A(Asia) | 1    |            |                       |
| 1   | 504636510001 |      | Li-Charger 24V40A(EU)   | 1    |            |                       |
| 1   | 504636510002 |      | Li-Charger 24V40A(AUS)  | 1    |            |                       |
| 1   | 504636510003 |      | Li-Charger 24V40A(ENG)  | 1    |            |                       |
| 1   | 504636510006 |      | Li-Charger 24V40A(ITA)  | 1    |            |                       |
| 1   | 504636510007 |      | Li-Charger 24V40A(CH)   | 1    |            |                       |
| 1   | 504636510008 |      | Li-Charger 24V40A(ISR)  | 1    |            |                       |
| 1   | 504636510009 |      | Li-Charger 24V40A(BRA)  | 1    |            |                       |
| 1   | 921000201141 |      | Li-Charger 24V50A(USA)  | 1    |            | UL, Single-phase 110V |

**04 Wire Harness (Lead-acid battery) (590446033002)**

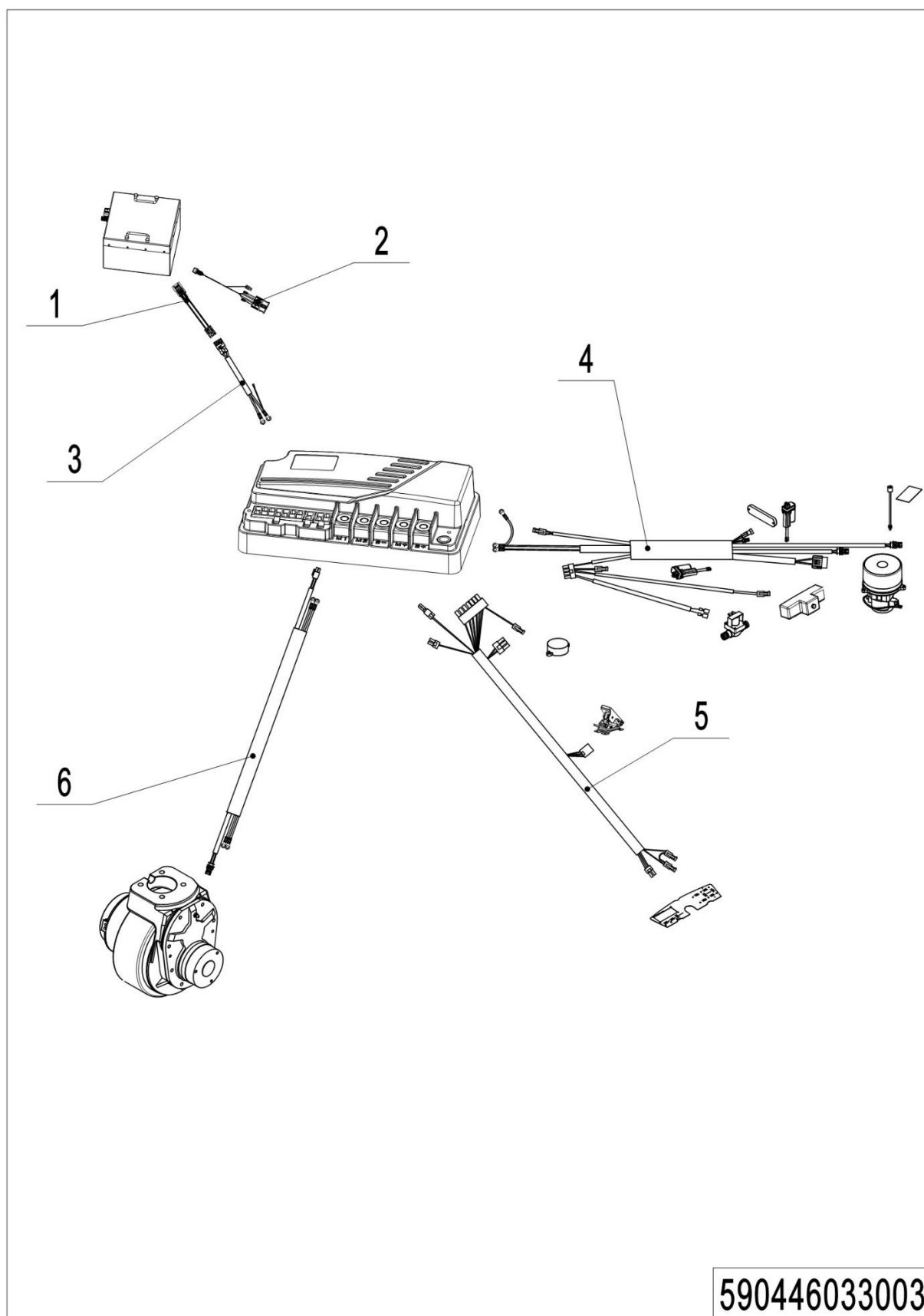
1= Supply as package. 2= Supply with constraints. 3= Phasing-out supply. 4= Supply as assembly. 5= Check other tables.

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**04 Wire Harness (Lead-acid battery) (590446033002)**

| <b>No.</b> | <b>Item Code</b> | <b>Mark</b> | <b>Item Description</b> | <b>Qty.</b> | <b>Substitute</b> | <b>Note</b> |
|------------|------------------|-------------|-------------------------|-------------|-------------------|-------------|
| 1          | 590498510016     |             | Wire Harness            | 1           |                   |             |
| 2          | 590498510017     |             | Connection Wire         | 1           |                   |             |
| 3          | 590498510010     |             | Wire Harness            | 1           |                   |             |
| 4          | 590498510023     |             | Connection Wire         | 1           |                   |             |
| 5          | 590498510021     |             | Wire Harness            | 1           |                   |             |
| 6          | 590498510018     |             | Wire Harness            | 1           |                   |             |
| 7          | 590498510019     |             | Wire Harness            | 1           |                   |             |
| 8          | 590498510020     |             | Wire Harness            | 1           |                   |             |

## 05 Wire Harness (Lithium battery) (590446033003)

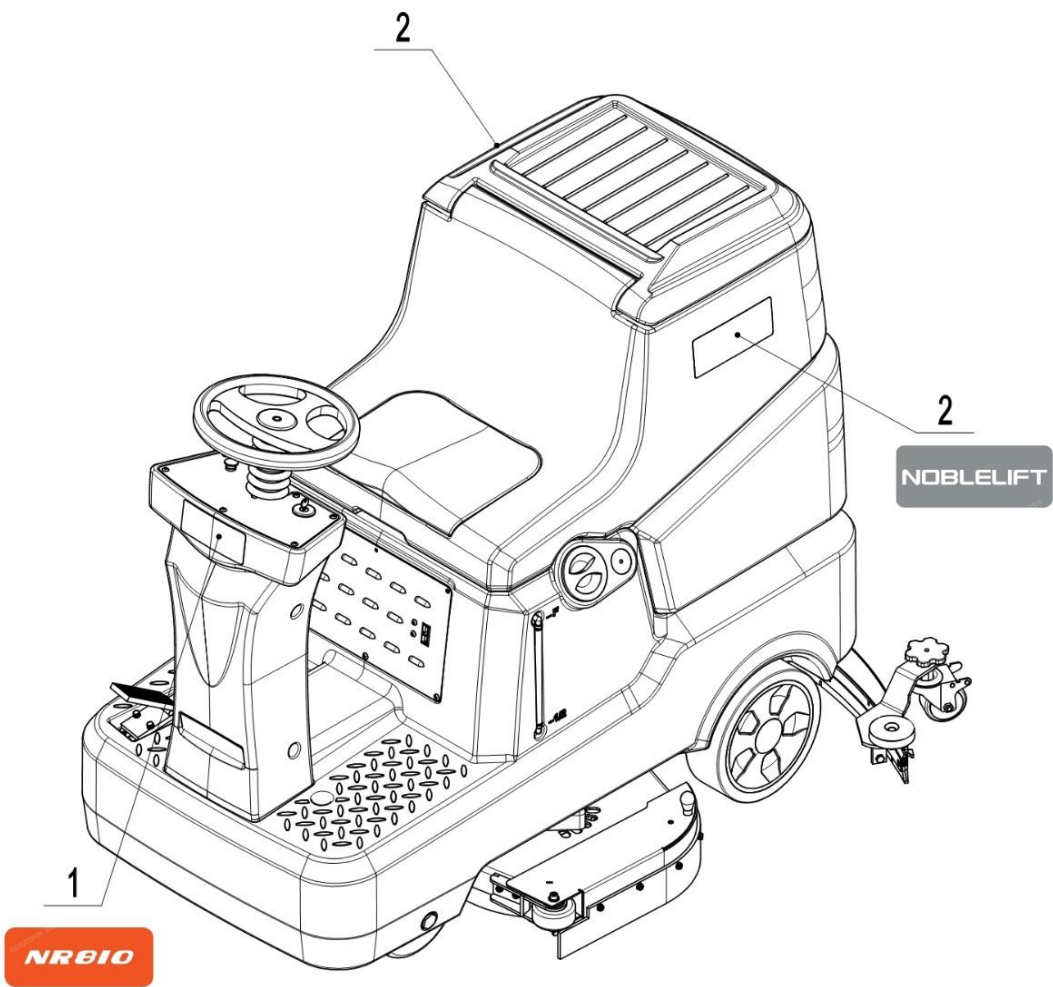


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**05 Wire Harness (Lithium battery) (590446033003)**

| <b>No.</b> | <b>Item Code</b> | <b>Mark</b> | <b>Item Description</b> | <b>Qty.</b> | <b>Substitute</b> | <b>Note</b>    |
|------------|------------------|-------------|-------------------------|-------------|-------------------|----------------|
| 1          | 590498520170     |             | Wire Harness            | 1           |                   | For Li-battery |
| 2          | 590498520171     |             | Wire Harness            | 1           |                   | For Li-battery |
| 3          | 590498520172     |             | Wire Harness            | 1           |                   | For Li-battery |
| 4          | 590498520173     |             | Wire Harness            | 1           |                   | For Li-battery |
| 5          | 590498520174     |             | Wire Harness            | 1           |                   | For Li-battery |
| 6          | 590498510016     |             | Wire Harness            | 1           |                   | For Li-battery |

## 01 Labels and decals (590446047001)



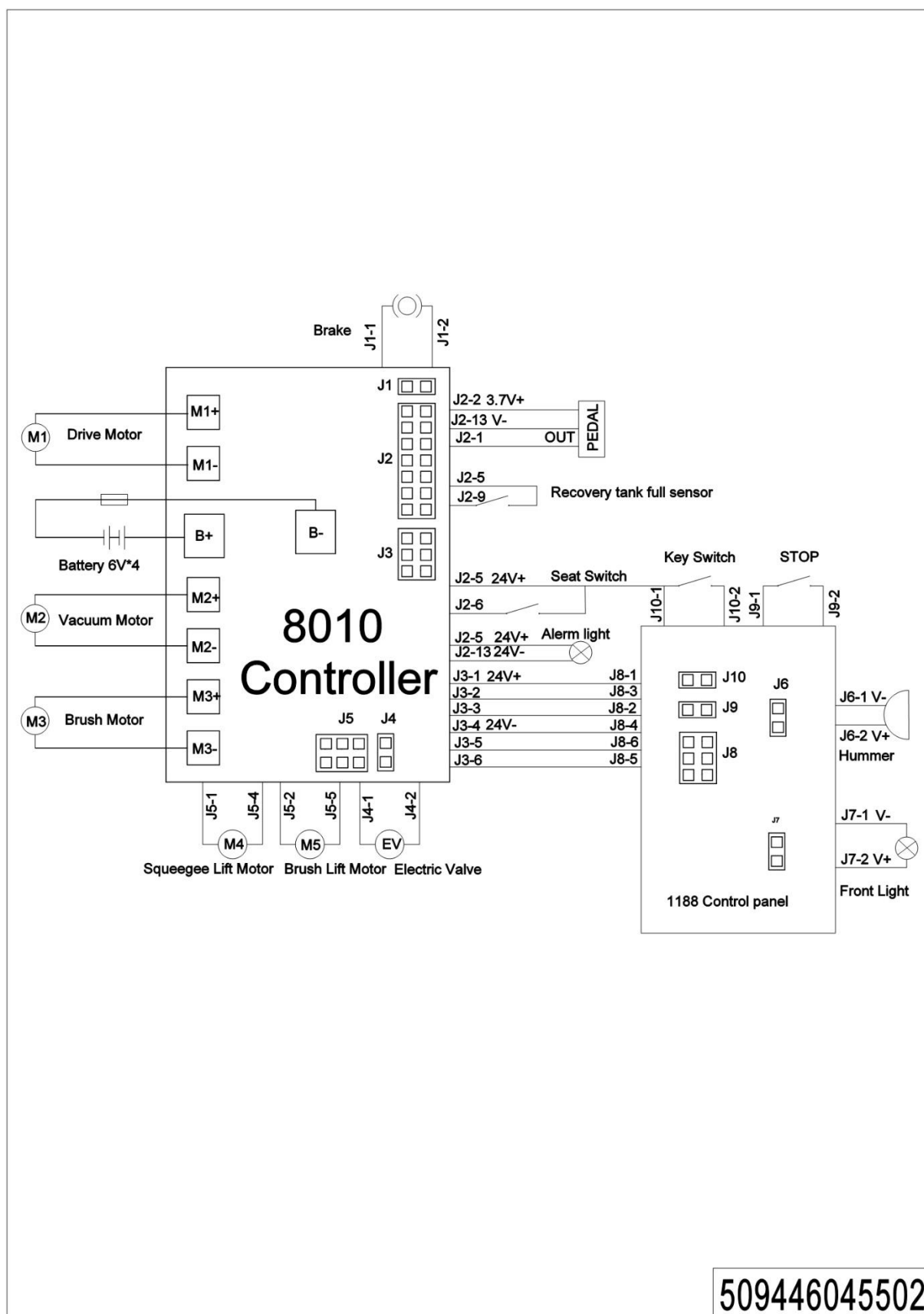
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**01 Labels and decals (590446047001)**

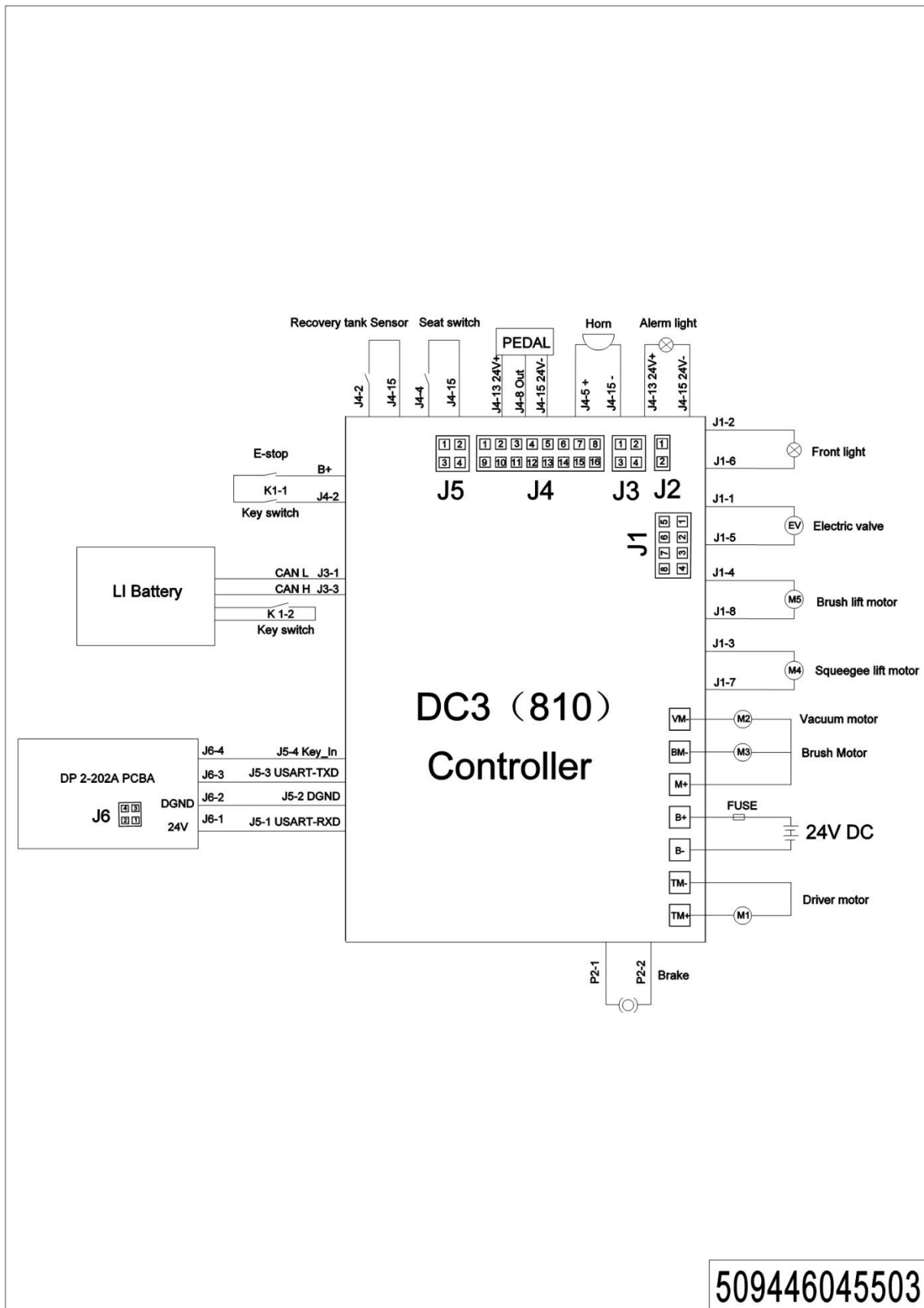
| <b>No.</b> | <b>Item Code</b> | <b>Mark</b> | <b>Item Description</b> | <b>Qty.</b> | <b>Substitute</b> | <b>Note</b> |
|------------|------------------|-------------|-------------------------|-------------|-------------------|-------------|
| 1          | 590498520110     |             | Label (NR810)           | 1           |                   |             |
| 2          | 590747020000     |             | Label (NOBLELIFT)       | 2           |                   |             |

## Appendix

### 01 Electrical Circuit Diagram (Lead-acid battery) (509446045502)



## 02 Electrical Circuit Diagram (Lithium battery) (509446045503)



## 02 Easy Wornout Parts List

| No. | Item Code    | Item Description   | Qty. | Chapter/ Section/ Number |
|-----|--------------|--------------------|------|--------------------------|
| 1   | 590498520050 | Steering Wheel     | 1    | Chapter 1/01/04          |
| 2   | 590398510006 | Accelerator        | 1    | Chapter 2/01/01          |
| 3   | 590398520107 | Accelerator        | 1    | Chapter 2/01/01          |
| 4   | 590398510010 | Warning Light      | 1    | Chapter 2/01/16          |
| 5   | 590498510009 | Push Motor         | 1    | Chapter 2/01/27          |
| 6   | 590498520261 | Sealing Strip      | 1.65 | Chapter 2/02/05          |
| 7   | 590498520055 | Drain Hose         | 1    | Chapter 2/02/07          |
| 8   | 590498520054 | Suction Pipe       | 1    | Chapter 2/02/09          |
| 9   | 590198520015 | Floating Ball      | 1    | Chapter 2/02/11          |
| 10  | 590198520014 | Floating Ball Cage | 1    | Chapter 2/02/12          |
| 11  | 590398520043 | Seat Pad           | 1    | Chapter 2/02/13          |
| 12  | 590398510001 | Seat Switch        | 1    | Chapter 2/02/14          |
| 13  | 590498510008 | Vacuum Motor       | 1    | Chapter 2/02/25          |
| 14  | 590498510005 | Brush Motor        | 1    | Chapter 2/03/01          |
| 15  | 590498510006 | Brush Motor        | 1    | Chapter 2/03/03          |
| 16  | 590498510004 | Push Motor         | 1    | Chapter 2/04/05          |
| 17  | 590498520096 | Bumper Wheel       | 2    | Chapter 2/05/07          |
| 18  | 590498520095 | Universal Caster   | 1    | Chapter 2/05/14          |
| 19  | 590498510012 | Squeegee           | 2    | Chapter 2/05/20          |
| 20  | 590498520080 | Valve              | 1    | Chapter 2/06/02          |
| 21  | 590498520024 | Filter             | 1    | Chapter 2/06/03          |
| 22  | 590498510007 | Solenoid Valve     | 1    | Chapter 2/06/06          |
| 23  | 590398510004 | Key Switch         | 1    | Chapter 2/07/01          |
| 24  | 590398510009 | Front Light        | 1    | Chapter 2/07/09          |
| 25  | 590398510008 | Emergency Switch   | 1    | Chapter 2/07/12          |
| 26  | 590498520023 | Bumper Wheel       | 2    | Chapter 2/08/01          |
| 27  | 590498520007 | Brush Strip        | 2    | Chapter 2/08/05          |
| 28  | 590498520025 | Wheel              | 2    | Chapter 2/10/04          |

### 03 Consumable Parts List

| No. | Item Code    | Item Description     | Qty. | Chapter/ Section/ Number |
|-----|--------------|----------------------|------|--------------------------|
| 1   | 590498510013 | 15 inch Brush        | 2    | Chapter 2/03/11          |
|     | 590498520112 | 15 inch Brush (Soft) | 2    | Chapter 2/03/11          |
|     | 590498520113 | 15 inch Brush (Hard) | 2    | Chapter 2/03/11          |
|     | 590498510014 | 15 inch Needle Disk  | 2    | Chapter 2/03/11          |
| 2   | 590498520094 | Blade Rear Rubber    | 1    | Chapter 2/05/02          |
|     | 590498520116 | Rear Blade (NR)      | 1    | Chapter 2/05/02          |
|     | 590498520117 | Rear Blade (PU)      | 1    | Chapter 2/05/02          |
| 3   | 590498520090 | Blade Front Rubber   | 1    | Chapter 2/05/18          |
|     | 590498520114 | Front Blade (NR)     | 1    | Chapter 2/05/18          |
|     | 590498520115 | Front Blade (PU)     | 1    | Chapter 2/05/18          |
| 4   | 590498520118 | White Pad            | 2    | Use With Pad Driver      |
|     | 590498520119 | Black Pad            | 2    | Use With Pad Driver      |
|     | 590498520134 | Red Pad              | 2    | Use With Pad Driver      |