

Part No.503006120002

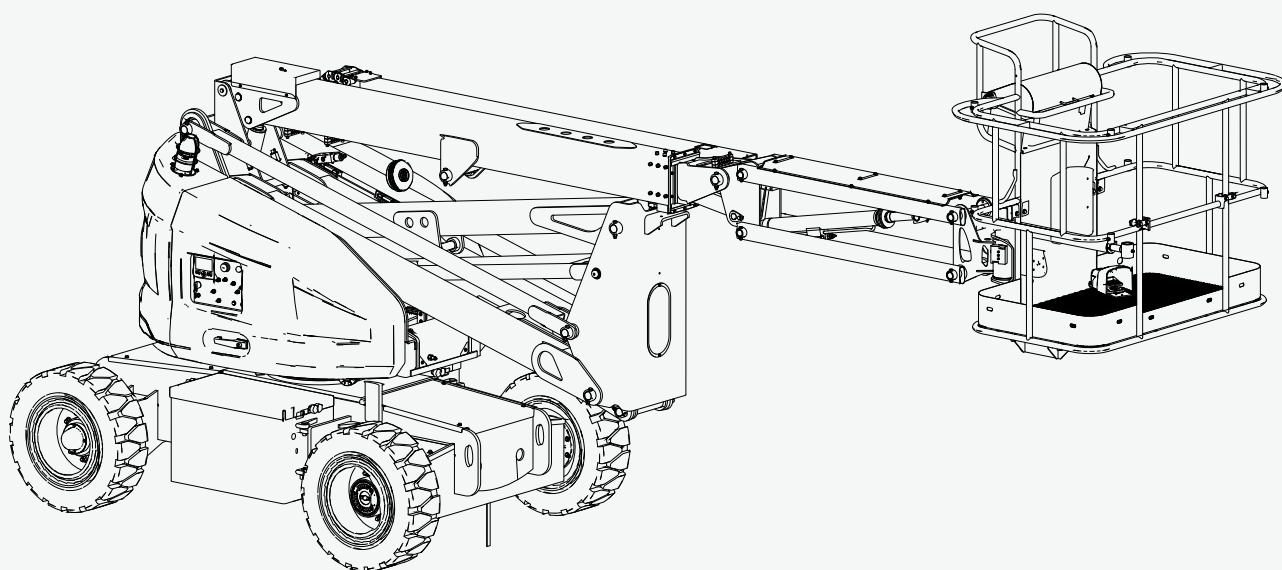
Rev: B

Feb 2022

# Parts Manual

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GTZZ14EJ/AB14EJ/AB460EJ



CE   GB 

**SINOBOOM**





## **WARNING**

Operating, servicing and maintaining this vehicle or equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle or equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing. For more information go to: [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov). For disposal, please follow your nation regulation.

## Manual revision history :

| REV | DATE      | DESCRIPTION                  | REMARK |
|-----|-----------|------------------------------|--------|
| A   | Apr, 2020 | Original issue of the manual |        |
| B   | Feb, 2022 | Update the manual            |        |
|     |           |                              |        |
|     |           |                              |        |
|     |           |                              |        |
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|     |           |                              |        |
|     |           |                              |        |
|     |           |                              |        |
|     |           |                              |        |
|     |           |                              |        |

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# APPLICATION

Use the following table to identify the specific serial number for models included in this manual. Check the model of your machine before consulting the manual, and then use the correct manual according to the serial number of the model. See the nameplate on your machine to identify the model and serial number. (See **Decals** section of this manual for details.)

| MODELS   | Trade identification |          | SERIAL NO.                 |
|----------|----------------------|----------|----------------------------|
|          | Metric               | Imperial |                            |
| GTZZ14EJ | AB14EJ               | AB460EJ  | From 0300600309 to present |

## NOTE:

- Product model is applied in product nameplate for distinction of products of different main parameters.
- Product trade identification is applied in marketing and machine decals for distinction of products of different main parameters, and can be classified as metric type and imperial type: The metric type of trade identification is applicable to machines for countries/regions using metric system or as specially required by customers; The imperial type of trade identification is applicable to the machines for countries/regions using imperial system or as specially required by customers.



# STATEMENTS

Hunan Sinoboom Intelligent Equipment Co., Ltd. (Hereinafter referred to as Sinoboom) will upload the latest product manual information to the website [www.sinoboom.com](http://www.sinoboom.com) as soon as possible. However, due to continuous product improvement, the information in this manual is subject to change without prior notice.

This manual covers the basic parts information of one or more products. Therefore, please use this manual according to your needs. If you find problems in the manual or have suggestions for improvement, feel free to share your feedback with Sinoboom, and we will address these issues as soon as possible.

Feel free to consult and download the *Operation Manual*, *Maintenance Manual* and *Parts Manual* of the products you need online at [www.sinoboom.com](http://www.sinoboom.com).

Hunan Sinoboom Intelligent Equipment Co., Ltd. retains the right of final interpretation of the manual.

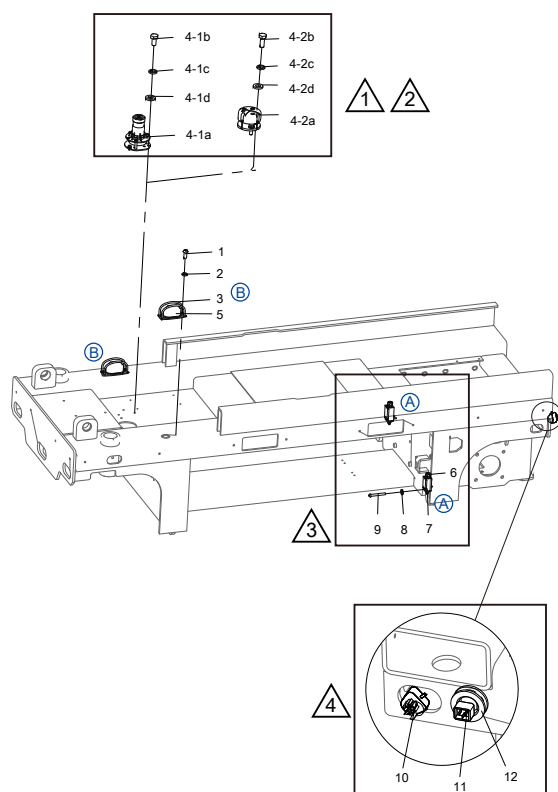
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# GENERAL INFORMATION



| No.  | Part No.      | Qty. | Description                        |
|------|---------------|------|------------------------------------|
| 1    | 215020000110  | 4    | Screw M5×12-A2-70 GB/T 818         |
| 2    | 215040000003  | 4    | Washer 5-A2-70 GB/T 93             |
| 3    | 203990000003  | 4    | Guard                              |
| 4    | 101053063017  |      | Options, Level sensor installation |
| 4-1a | 203150000066  | 1    | Level sensor                       |
| 4-1b | 215010000049  | 3    | Bolt M6×12-A2-70 GB/T 5783         |
| 4-1c | 215040000004  | 3    | Washer 6-A2-70 GB/T 93             |
| 4-1d | 215040000033  | 3    | Washer 6-A2 GB/T 97.1              |
| 4-2a | 203060000076  | 1    | Level sensor                       |
| 4-2b | 215010000050  | 3    | Bolt M6×16-A2-70 GB/T 5783         |
| 4-2c | 215040000004  | 3    | Washer 6-A2-70 GB/T 93             |
| 4-2d | 215040000033  | 3    | Washer 6-A2 GB/T 97.1              |
| 5    | 203050000038  | 2    | LED light, beacon                  |
| 6    | 201990003005  | 2    | Connector                          |
| 7    | 203060000055  | 2    | Limit switch                       |
| 8    | 215040000003  | 2    | Washer 5-A2-70 GB/T 93             |
| 9    | 2150200000215 | 2    | Screw M5×40-A2-70 GB/T 818         |
| 10   | 203080000173  | 1    | Charger cord and plug              |
| 11   | 203080000343  | 1    | 3 pins plug                        |
| 12   | 101032030115  | 1    | Rubber grommet                     |

**The special meanings expressed in the illustrations and tables in this manual are explained as follows :**



Add "-1, -2, -3..." after the number to represents an options (one multiple choice), such as choose 4-1 and 4-2 according to specific needs.



Add "lowercase a, b, c..." after the number to indicate by a variety of components, such as 4a, 4b, 4c and 4d composition 4.



"A,B,C..." in figure indicates the same parts in many places, and the same place is indicated by the same symbol.



The diagram indicated by the lead is a local enlargement or a local illustration.

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# INTRODUCTION

Thank you for choosing and using the machinery of Hunan Sinoboom Intelligent Equipment Co., Ltd. Always read, understand and become familiar with the operation requirements of the machine and its associated safety procedures before operating, maintaining and repairing the machine. Operating the machine without becoming familiar with its specific operation requirements and safety procedures poses serious risks. Operators who follow safety rules and operate the machine carefully and effectively will prevent personal injury, property loss and accidents.

The information contained in this manual is designed to aid the user in locating and identifying replacement parts. Component parts of various assemblies and sub-assemblies are illustrated and accompanied by a descriptive parts list. Exploded drawings are used to show relative location of component parts in disassembly or assembly order.

This product uses the latest technology and the highest quality components. When replacement parts are required, Hunan Sinoboom Intelligent Equipment Co., Ltd. recommends that only the original or recommended parts be used. When ordering replacement parts, the complete part number and description should be used to ensure proper identification and delivery of the desired item. This complete identification should also be used when requesting equipment information.

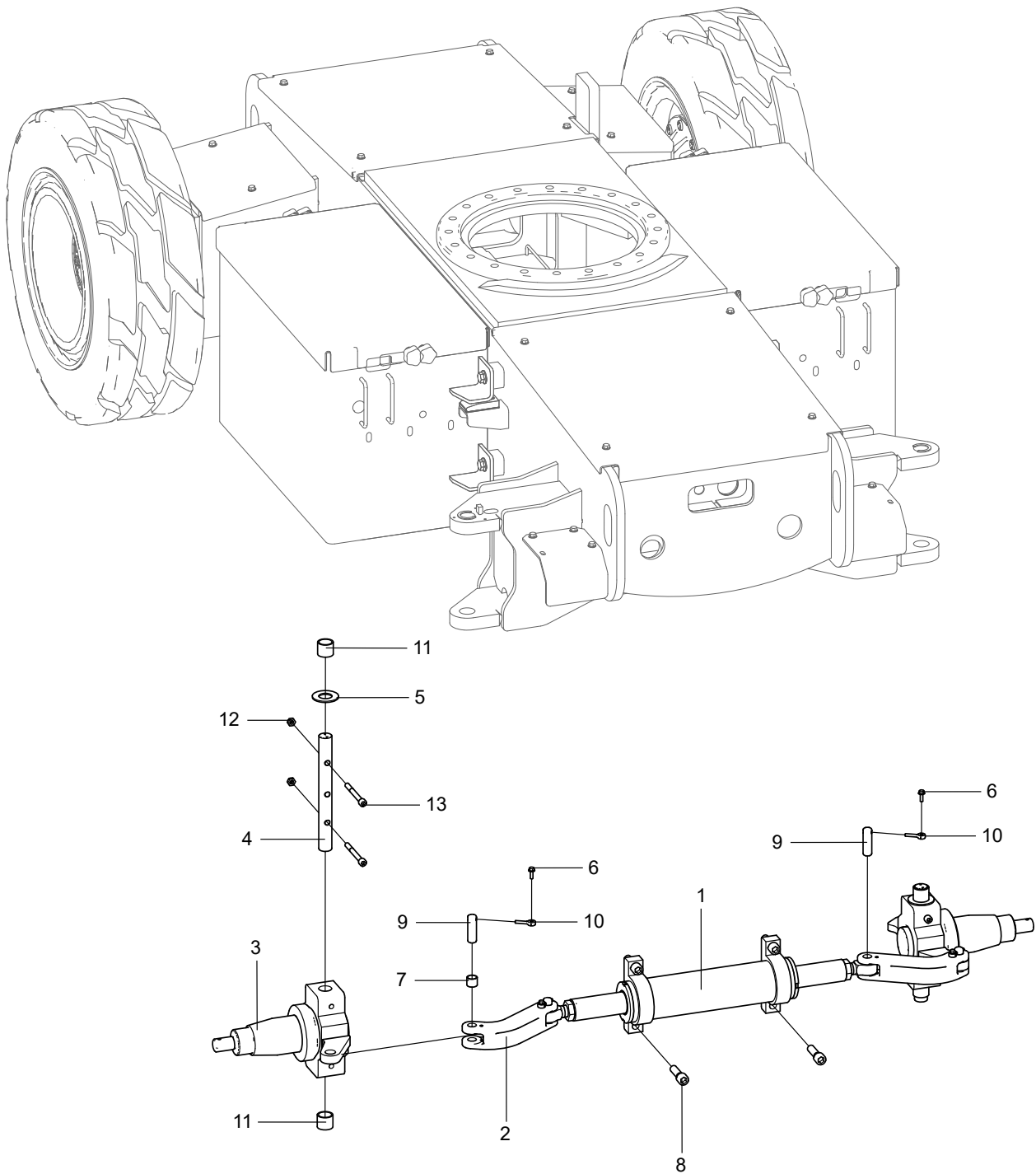
Consider this manual a part of the machine, along with *Operation Manual* and *Maintenance Manual*, and always keep the manuals with the machine. The owner or administrator of the machine shall offer all manuals and other necessary information provided by the machine manufacturer regarding the daily inspection and maintenance to each of the renters. If the machine is sold, the owner or administrator must pass along the manuals and other necessary information to the purchaser. The owner or administrator of the machine shall also provide the manufacturer's maintenance information to the person responsible for maintaining the machine.

If you have any questions, contact Hunan Sinoboom Intelligent Equipment Co., Ltd..

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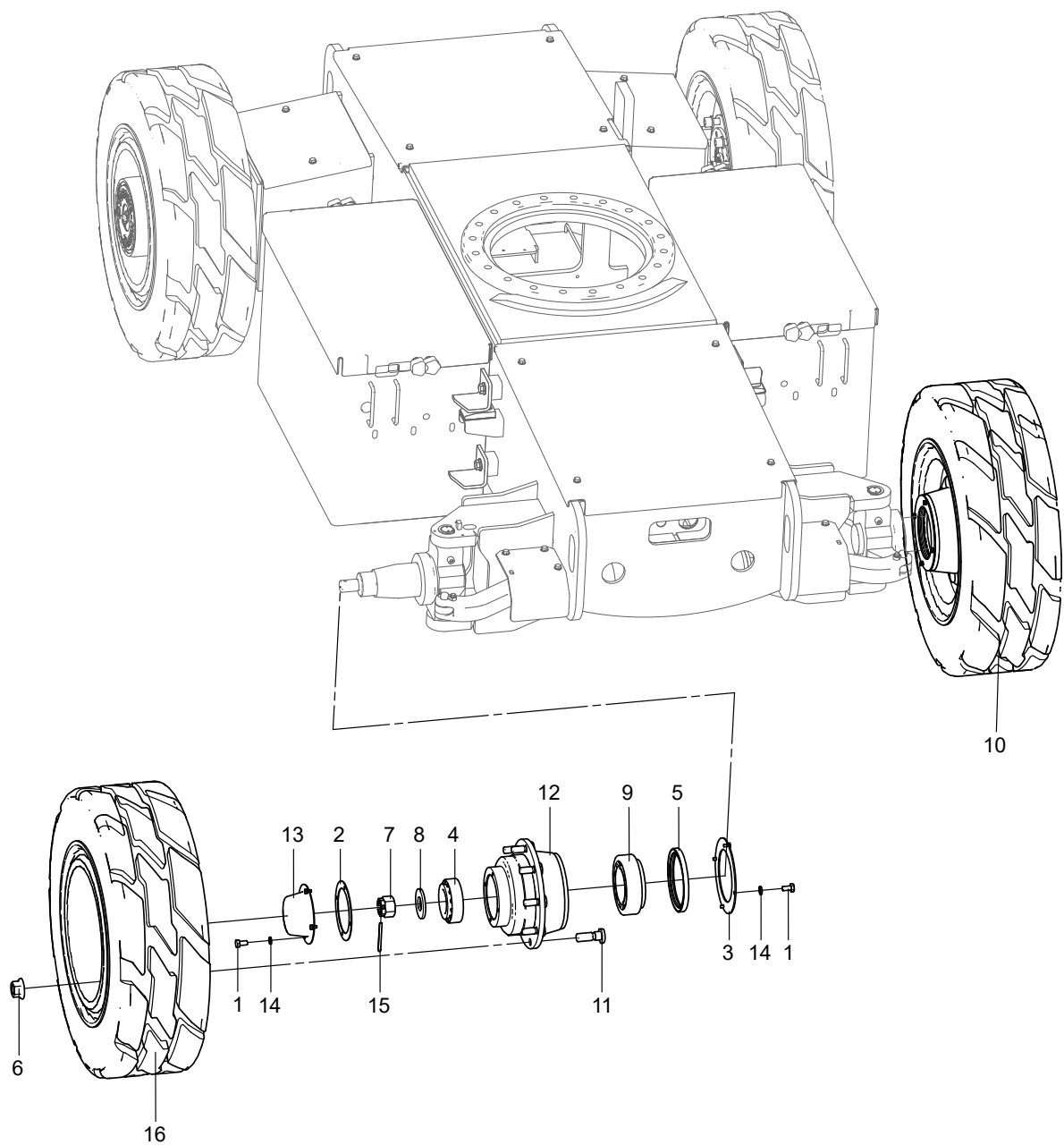
# **1 CHASSIS COMPONENTS**

# 1.1 STEER SYSTEM



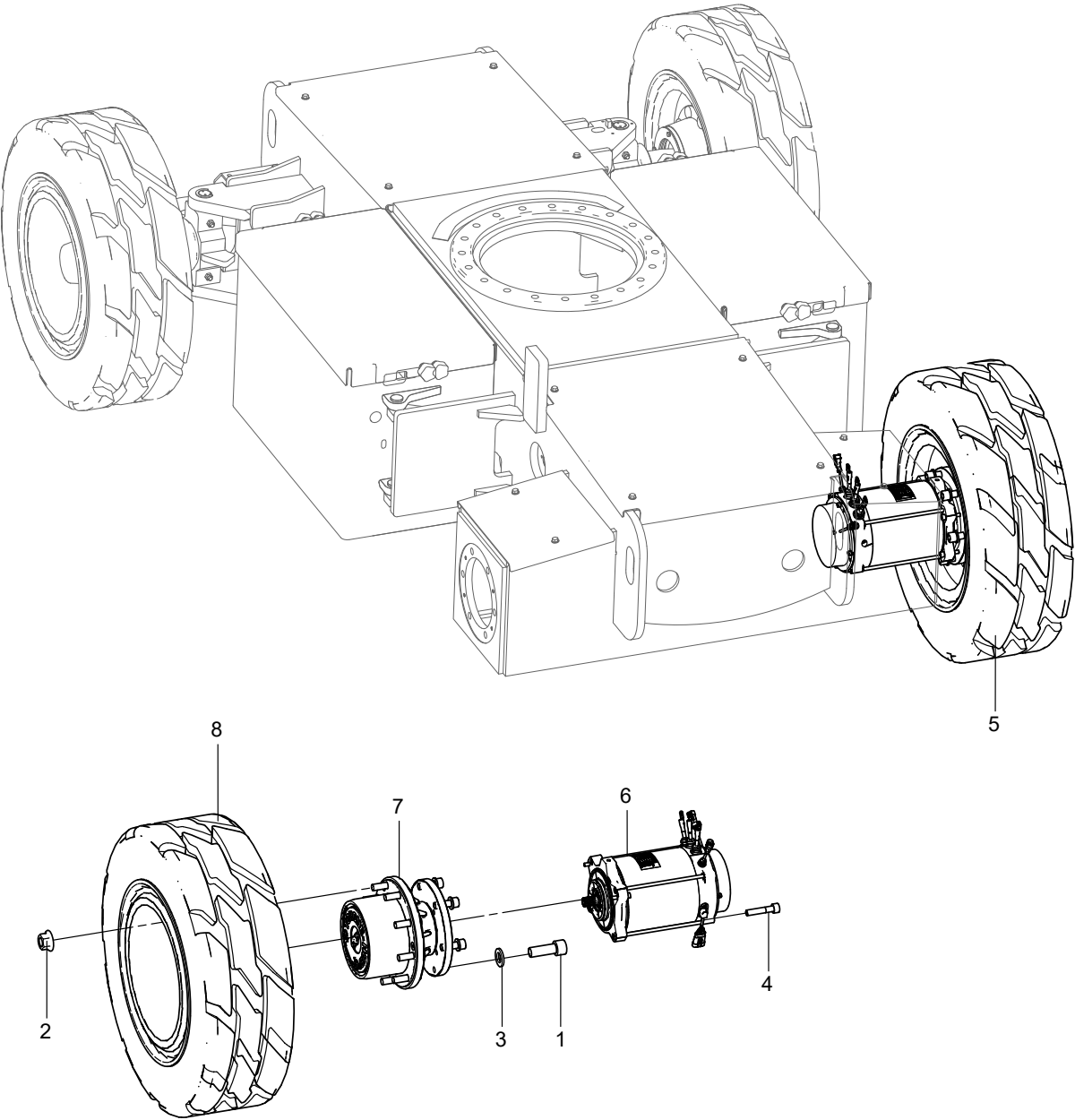
| No.  | Part No.     | Qty. | Description                     |
|------|--------------|------|---------------------------------|
| 1    | 103002050002 | 1    | Steer cylinder(A)               |
| 1a-1 | 207990003184 | 1    | Seal kit, cylinder(1000145)     |
| 1a-2 | 207990003196 | 1    | Seal kit, cylinder(1000148)     |
| 2    | 103002030009 | 2    | Tie rod                         |
| 3    | 103002030039 | 2    | Spindle                         |
| 4    | 103006030012 | 2    | Pin XGΦ30-285                   |
| 5    | 103006030010 | 2    | Shim                            |
| 6    | 215010000231 | 4    | Bolt M6×20-8.8-ZnD GB/T 5789    |
| 7    | 214030000052 | 2    | Bearing, self-lubricating       |
| 8    | 215020000086 | 4    | Screw M16×55-10.9-DKL GB/T 70.1 |
| 9    | 111001010105 | 4    | Pin XGΦ20-65                    |
| 10   | 101012010070 | 4    | Keeper pin Φ6-38                |
| 11   | 214030000006 | 4    | Bearing, self-lubricating       |
| 12   | 215030000027 | 4    | Nut M10-8-ZnD GB/T 889.1        |
| 13   | 215020000070 | 4    | Screw M10×100-8.8-ZnD GB/T 70.1 |

1.2 FRONT WHEEL INSTALLATION



| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
| 1   | 215010000049 | 16   | Bolt M6×12-A2-70 GB/T 5783            |
| 2   | 105001030025 | 2    | Seal gasket                           |
| 3   | 103002030047 | 2    | Retaining ring                        |
| 4   | 214010000020 | 2    | Bearing 33212 GB/T 297                |
| 5   | 207050000001 | 2    | Framework seal                        |
| 6   | 215030000063 | 18   | Nut M16×1.5-10-DKL DTF 6177.2         |
| 7   | 215030000060 | 2    | Nut M30×2-8-ZnD GB/T 9457             |
| 8   | 105001030024 | 2    | Shim                                  |
| 9   | 214010000019 | 2    | Bearing 33217 GB/T 297                |
| 10  | 103006033041 | 1    | Left tire options(See TIRE ASSEMBLY)  |
| 11  | 105001030059 | 18   | Bolt, self-build                      |
| 12  | 104009030021 | 2    | Seat                                  |
| 13  | 105001030030 | 2    | Dust cover                            |
| 14  | 215040000004 | 16   | Washer 6-A2-70 GB/T 93                |
| 15  | 215060000015 | 2    | Cotter pin 6.3×63-ZnD GB/T 91         |
| 16  | 103006033042 | 1    | Right tire options(See TIRE ASSEMBLY) |

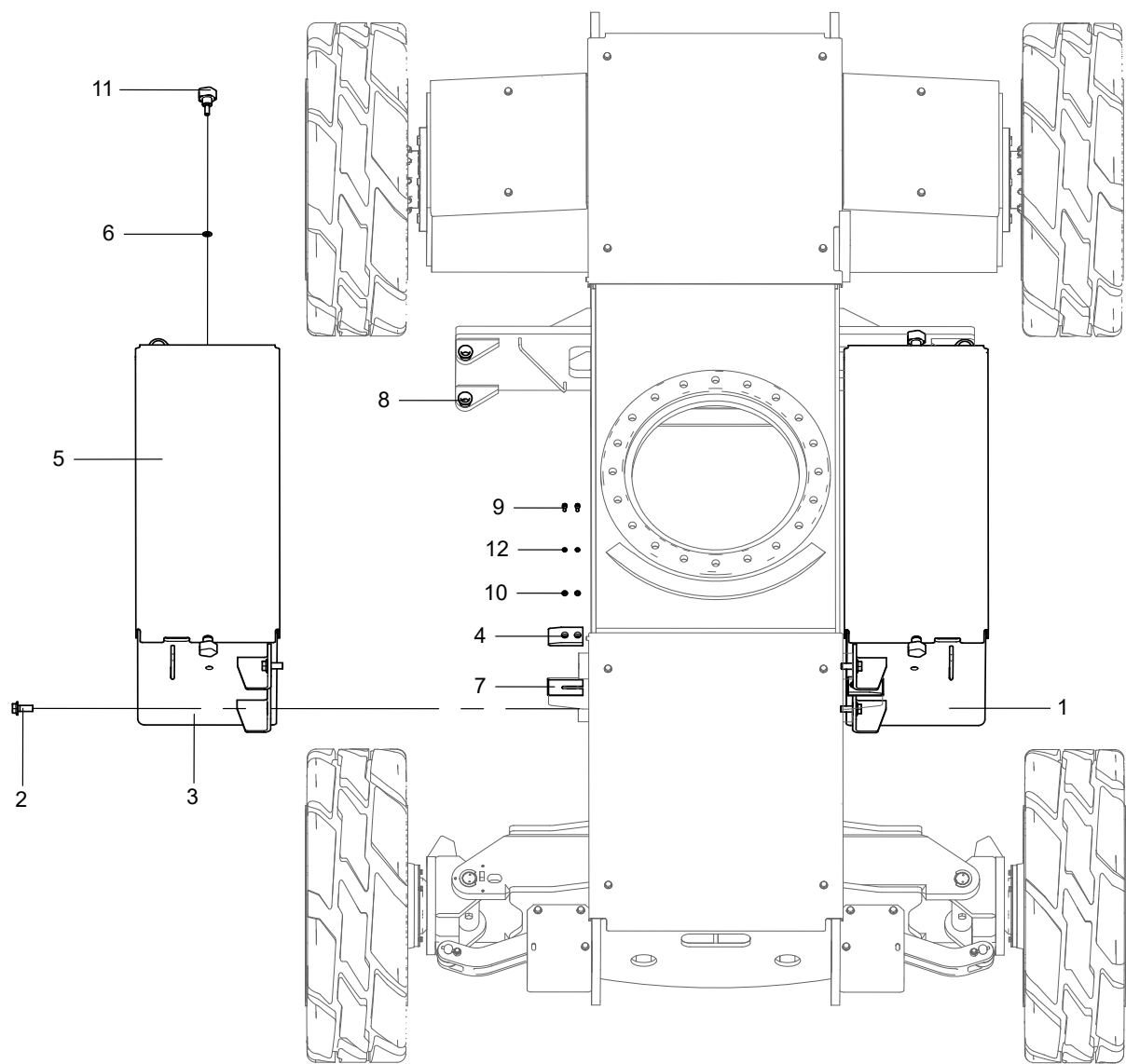
1.3 DRIVE SYSTEM





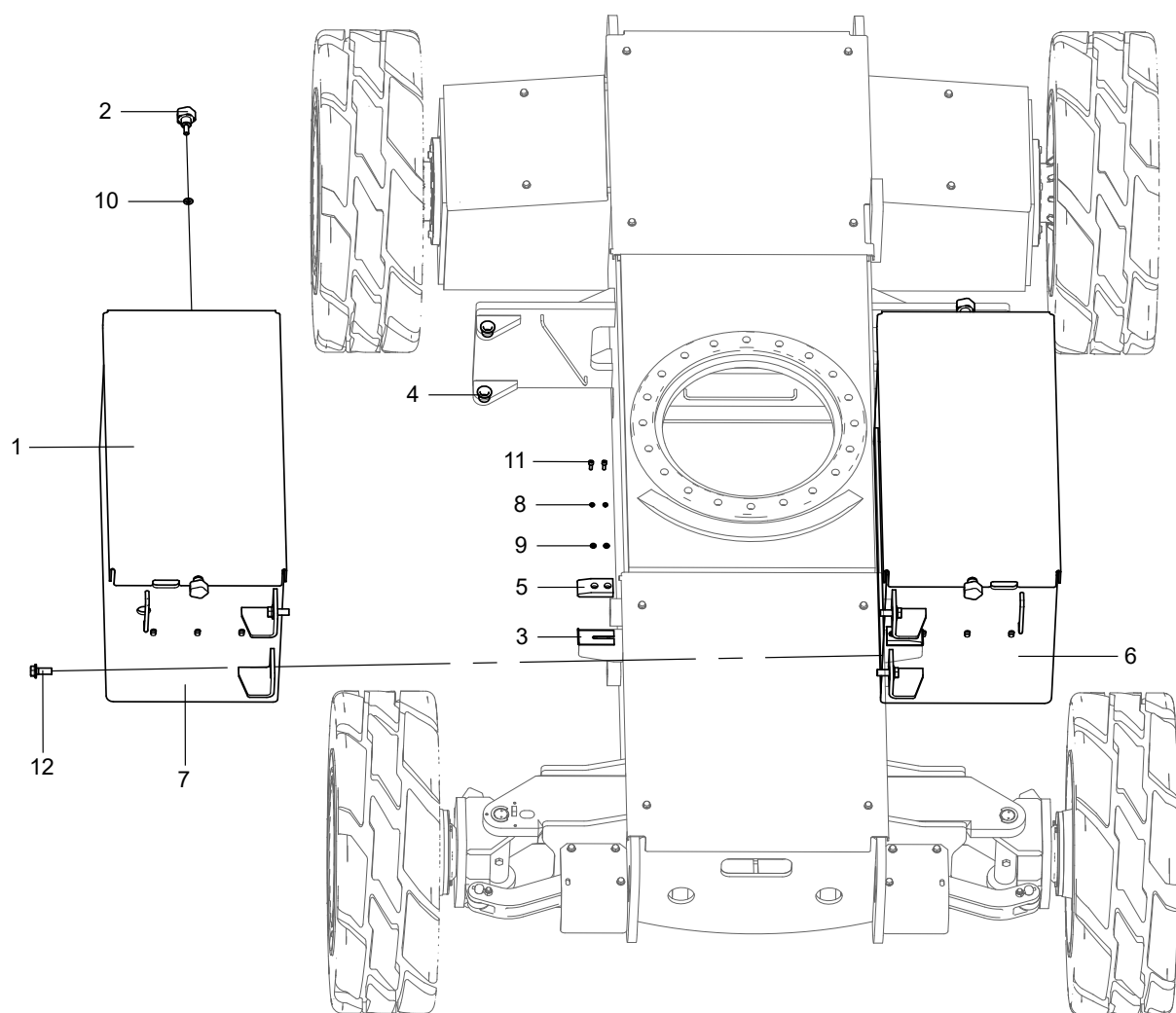
| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
| 1   | 215080000008 | 12   | Screw 5/8"-11UNC-1.75inches GR8       |
| 2   | 215080000028 | 18   | Nut 5/8"-18UNF                        |
| 3   | 215040000039 | 12   | Washer 16-200HV-ZnD GB/T 97.1         |
| 4   | 215020000029 | 8    | Screw M8×40-10.9-DKL GB/T 70.1        |
| 5   | 103006033041 | 1    | Left tire options(See TIRE ASSEMBLY)  |
| 6   | 203010000021 | 2    | Drive motor                           |
| 6a  | 203150003043 | 1    | Speed sensor                          |
| 6b  | 203150003044 | 1    | Brake                                 |
| 7   | 204020000039 | 2    | Drive reducer                         |
| 8   | 103006033042 | 1    | Right tire options(See TIRE ASSEMBLY) |

# 1.4 LEAD-ACID BATTERY HOLDER INSTALLATION



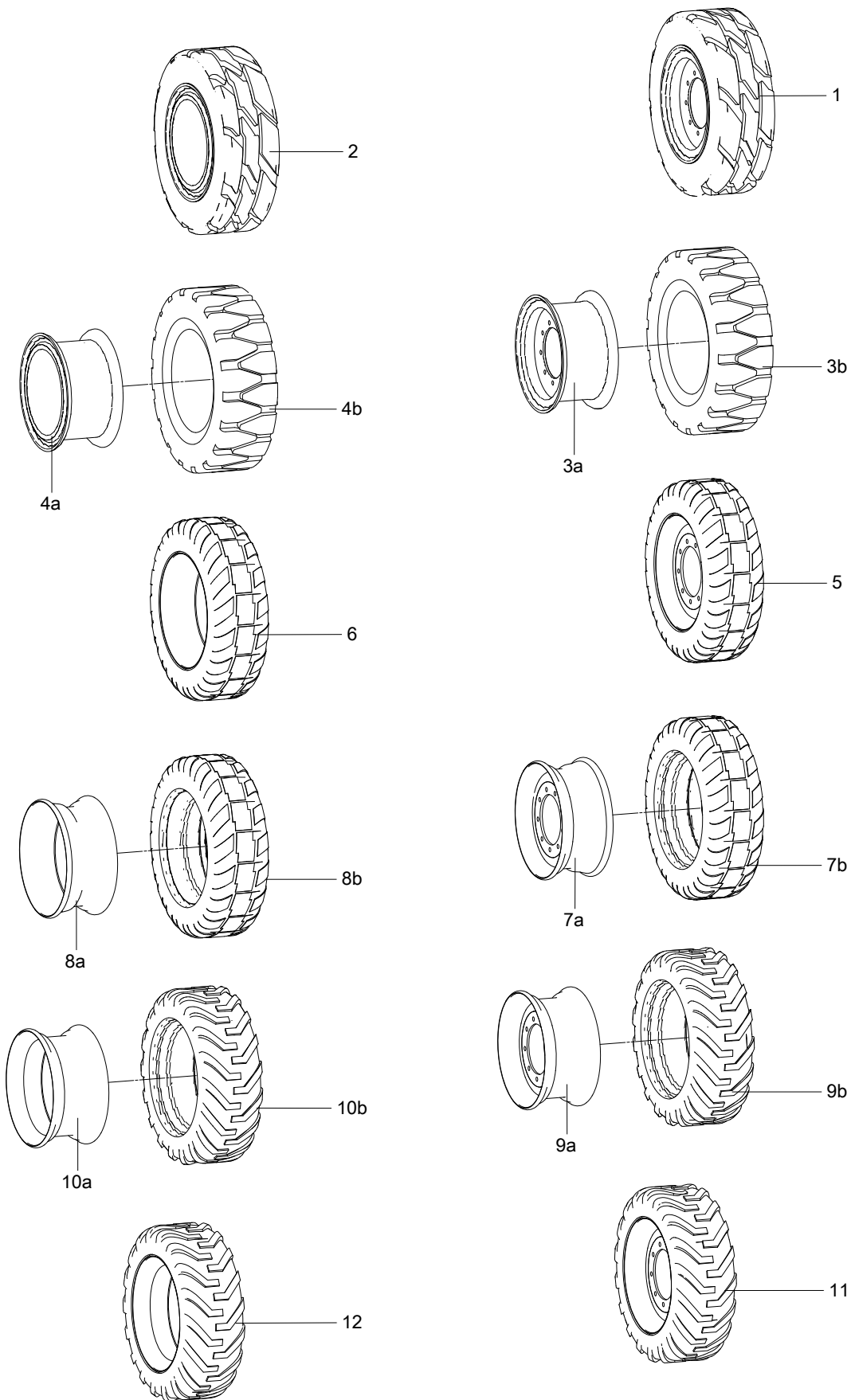
| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 1   | 103006030005 | 1    | Battery box                   |
| 2   | 215010000260 | 4    | Bolt M14×35-8.8-ZnD GB/T 5789 |
| 3   | 103006030035 | 1    | Battery box                   |
| 4   | 101014030014 | 2    | Pad                           |
| 5   | 103006030015 | 2    | Cover                         |
| 6   | 215040000035 | 4    | Washer 10-200HV-ZnD GB/T 97.1 |
| 7   | 101015030030 | 2    | Shim                          |
| 8   | 214010000029 | 4    | Bearing 20×24-20              |
| 9   | 215020000012 | 4    | Screw M6×20-A2-70 GB/T 70.1   |
| 10  | 215040000033 | 4    | Washer 6-A2 GB/T 97.1         |
| 11  | 209030000006 | 4    | Bolt, star-headed             |
| 12  | 215040000004 | 4    | Washer 6-A2-70 GB/T 93        |

1.5 LITHIUM BATTERY HOLDER INSTALLATION



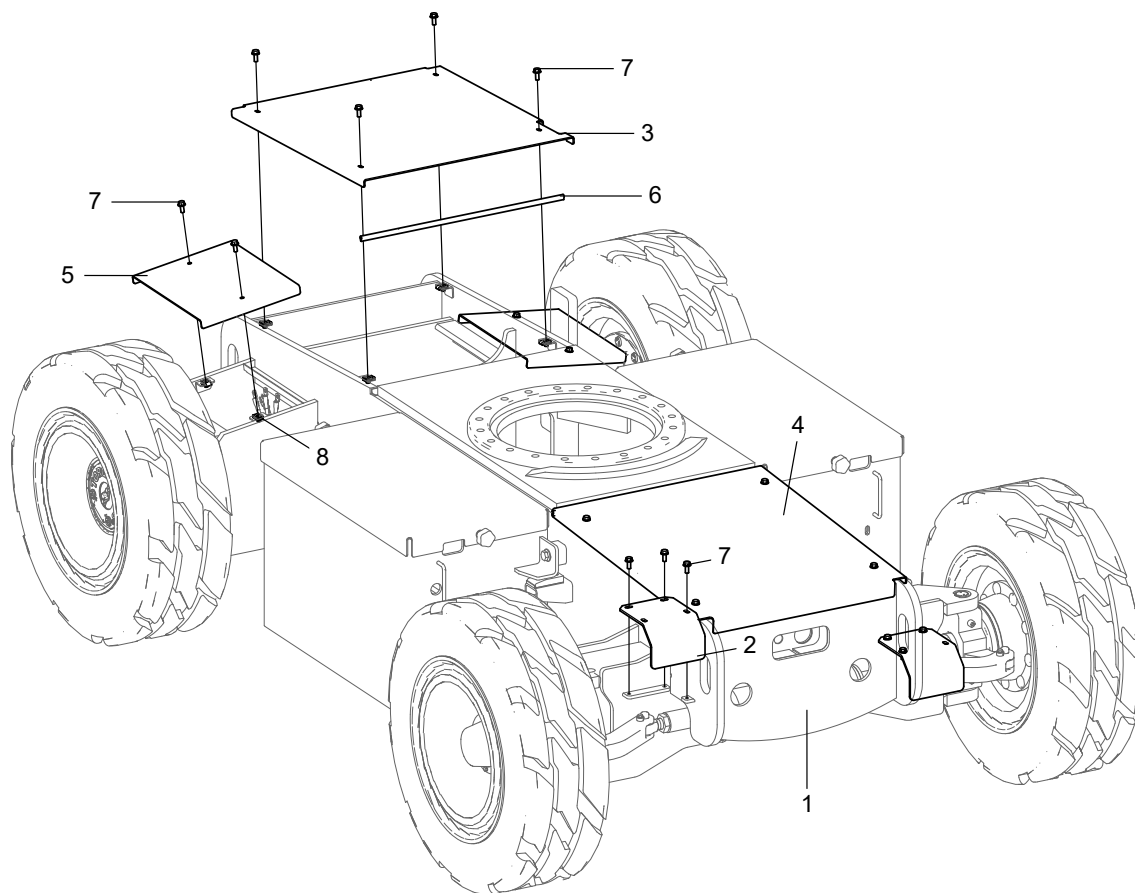
| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 1   | 103006033027 | 2    | Cover                         |
| 2   | 209030000006 | 4    | Bolt, star-headed             |
| 3   | 101015030030 | 2    | Shim                          |
| 4   | 214010000029 | 4    | Bearing 20×24-20              |
| 5   | 101014030014 | 2    | Pad                           |
| 6   | 103006033025 | 1    | Battery box                   |
| 7   | 103006033026 | 1    | Battery box                   |
| 8   | 215040000004 | 4    | Washer 6-A2-70 GB/T 93        |
| 9   | 215040000033 | 4    | Washer 6-A2 GB/T 97.1         |
| 10  | 215040000035 | 4    | Washer 10-200HV-ZnD GB/T 97.1 |
| 11  | 215020000012 | 4    | Screw M6×20-A2-70 GB/T 70.1   |
| 12  | 215010000260 | 4    | Bolt M14×35-8.8-ZnD GB/T 5789 |

1.6 TIRE ASSEMBLY



| No. | Part No.     | Qty. | Description                                              |
|-----|--------------|------|----------------------------------------------------------|
| 1   | 103003030075 | 2    | Tire and wheel assembly, non-marking                     |
| 2   | 103003030075 | 2    | Tire and wheel assembly, non-marking                     |
| 3   | 103003030076 | 2    | Tire and wheel assembly, solid                           |
| 3a  | 103003030066 | 1    | Rim assembly                                             |
| 3b  | 204080000018 | 1    | Tire, solid                                              |
| 4   | 103003030076 | 2    | Tire and wheel assembly, solid                           |
| 4a  | 103003030066 | 1    | Rim assembly                                             |
| 4b  | 204080000018 | 1    | Tire, solid                                              |
| 5   | 103003030121 | 2    | Tire and wheel assembly, foam filled, non-marking        |
| 6   | 103003030121 | 2    | Tire and wheel assembly, foam filled, non-marking        |
| 7   | 103003030122 | 2    | Tire and wheel assembly, foam filled                     |
| 7a  | 103004030003 | 1    | Rim assembly                                             |
| 7b  | 204080000040 | 1    | Tire, foam filled                                        |
| 8   | 103003030122 | 2    | Tire and wheel assembly, foam filled                     |
| 8a  | 103004030003 | 1    | Rim assembly                                             |
| 8b  | 204080000040 | 1    | Tire, foam filled                                        |
| 9   | 103007033008 | 2    | Tire assembly, foam-filled, left                         |
| 9a  | 103004033009 | 1    | Rim assembly, steel                                      |
| 9b  | 204080003029 | 1    | Tire 27×10.5-15                                          |
| 10  | 103007033009 | 2    | Tire assembly, foam-filled, right                        |
| 10a | 103004033009 | 1    | Rim assembly, steel                                      |
| 10b | 204080003029 | 1    | Tire 27×10.5-15                                          |
| 11  | 103007033010 | 2    | Tire and wheel assembly, foam filled, non-marking, left  |
| 12  | 103007033011 | 2    | Tire and wheel assembly, foam filled, non-marking, right |

## 1.7 CHASSIS SHIELD INSTALLATION

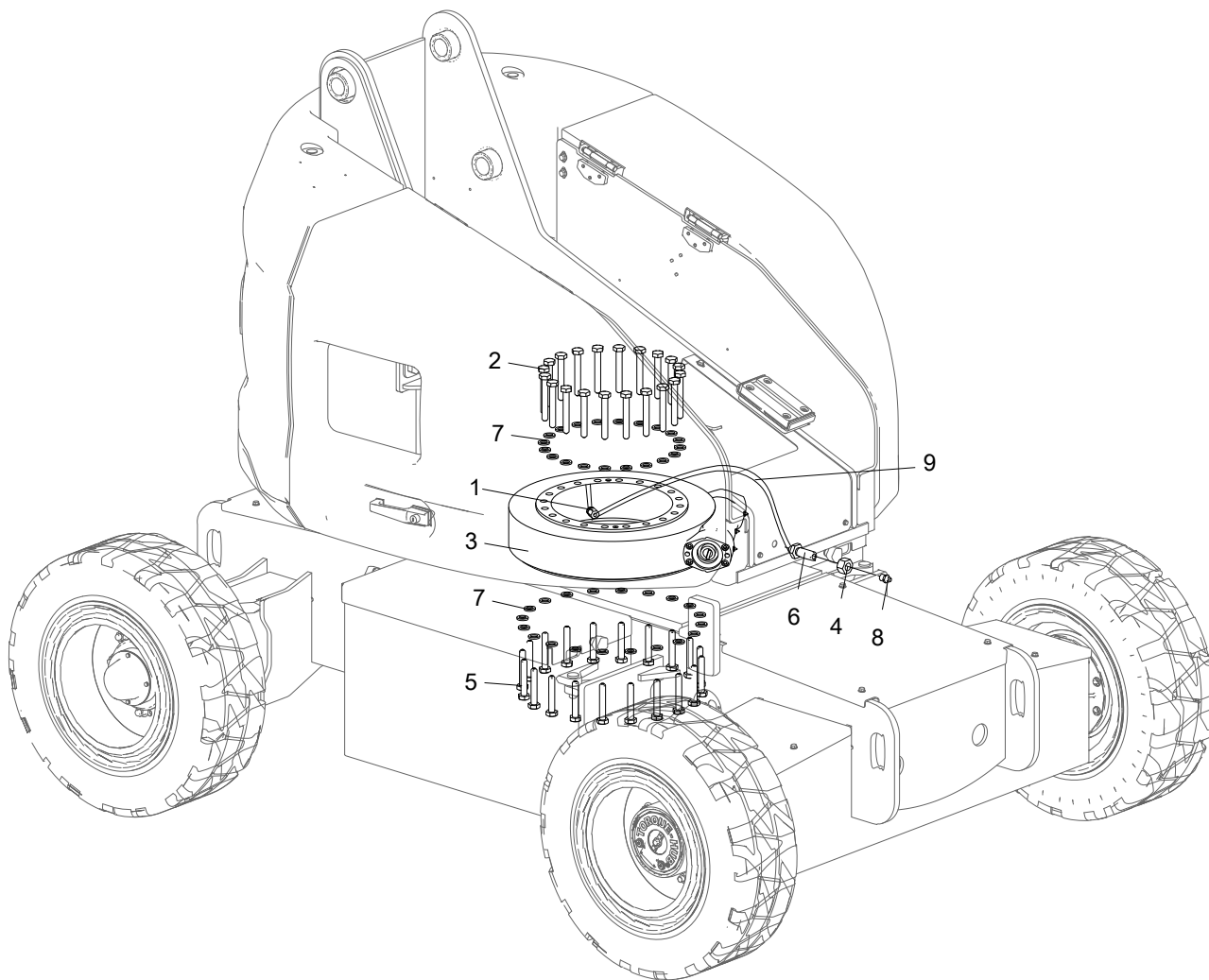


| No. | Part No.     | Qty. | Description                  |
|-----|--------------|------|------------------------------|
| 1   | 103006030022 | 1    | Chassis                      |
| 2   | 103006033034 | 2    | Bracket                      |
| 3   | 103006030032 | 1    | Cover                        |
| 4   | 103006030014 | 1    | Cover                        |
| 5   | 103006030020 | 2    | Cover                        |
| 6   | 216030000009 | 2    | Seal strip                   |
| 7   | 215010000234 | 18   | Bolt M8×20-8.8-ZnD GB/T 5789 |
| 8   | 215030000106 | 12   | B type spring nuts           |



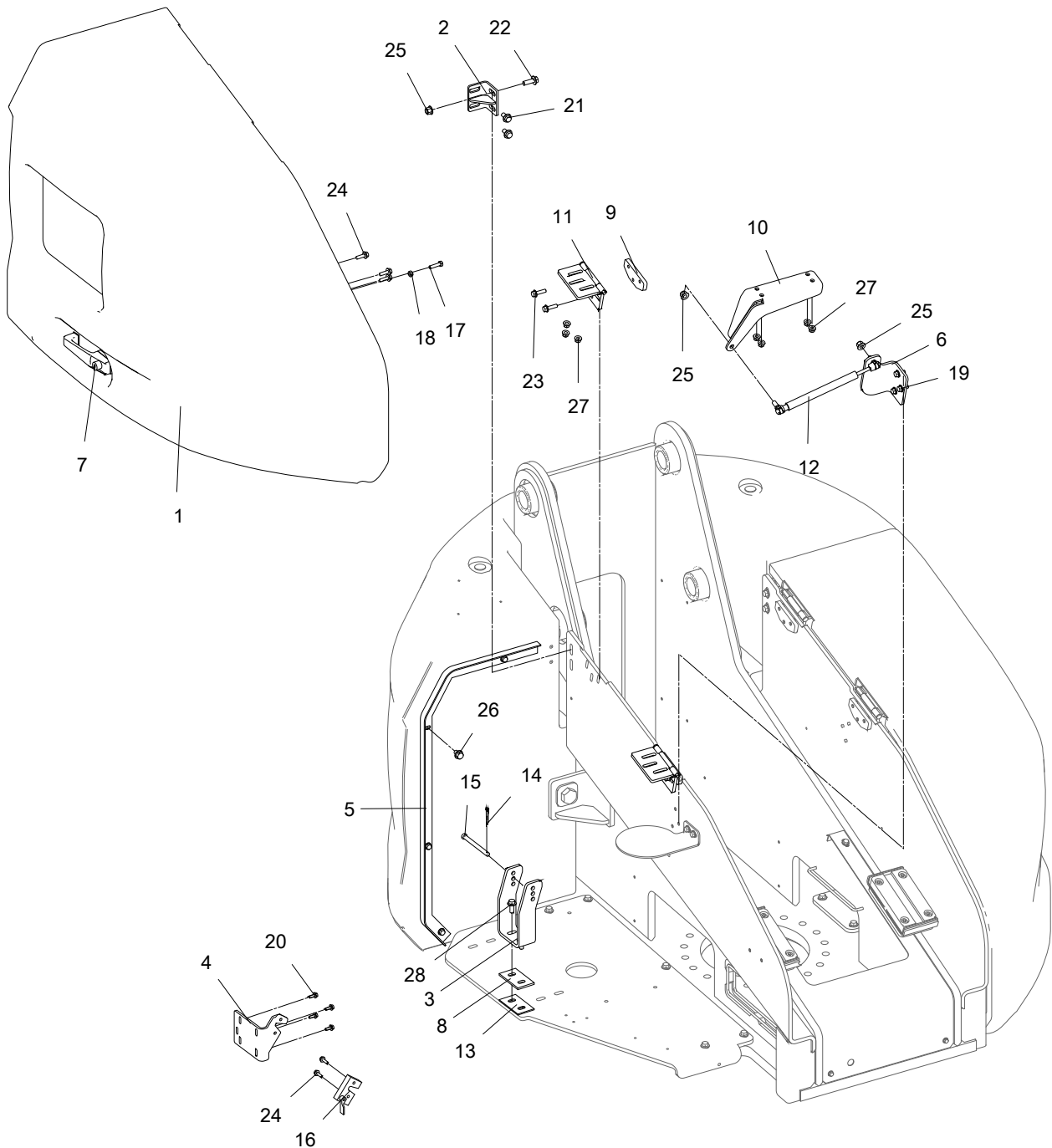
## **2 TURNTABLE COMPONENTS**

## 2.1 SWING DRIVE INSTALLATION



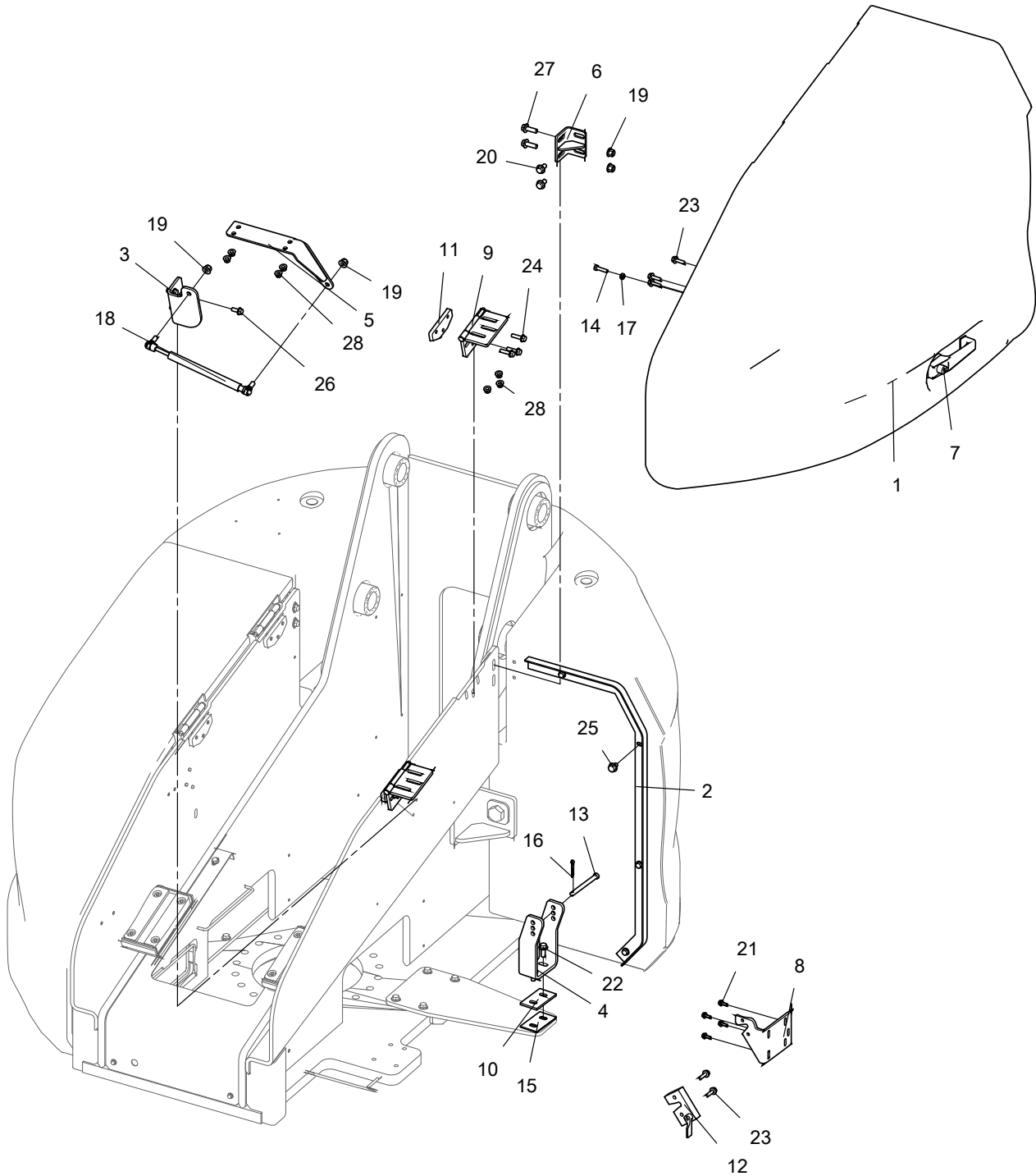
| No. | Part No.     | Qty. | Description                     |
|-----|--------------|------|---------------------------------|
| 1   | 213010000060 | 1    | Fitting                         |
| 2   | 215010000154 | 20   | Bolt M16×120-10.9-DKL GB/T 1228 |
| 3   | 204020000015 | 1    | Slewing reducer                 |
| 4   | 215030000010 | 1    | Nut M16-8-ZnD GB/T 6170         |
| 5   | 215010000152 | 20   | Bolt M16×100-10.9-DKL GB/T 1228 |
| 6   | 105001020225 | 1    | Fitting                         |
| 7   | 215040000052 | 40   | Washer 16 GB/T 1230             |
| 8   | 207010000003 | 1    | Grease nipple M10×1 GB/T 1152   |
| 9   | 213050000088 | 1    | Hose                            |

### 2.2 TURNTABLE LEFT HOODS INSTALLATION



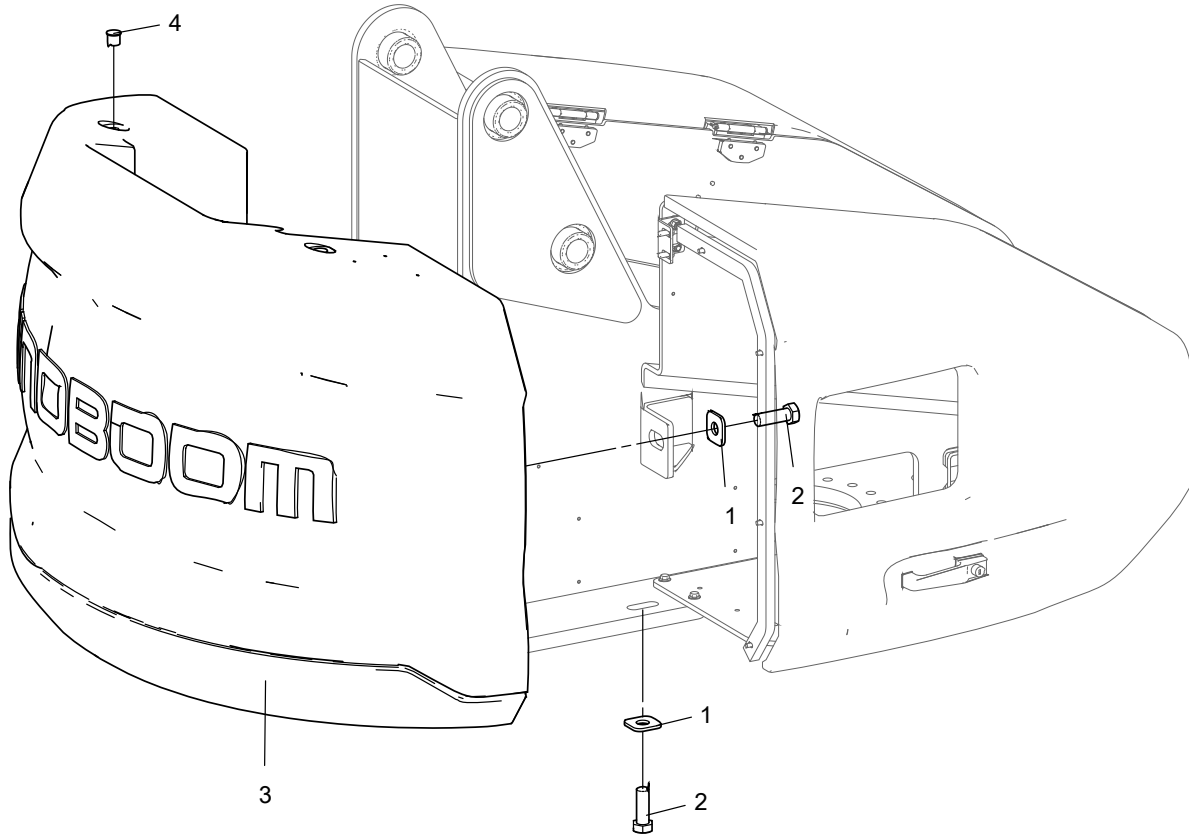
| No. | Part No.     | Qty. | Description                        |
|-----|--------------|------|------------------------------------|
| 0   | 103007023006 | 1    | Turntable Right Hoods Installation |
| 0   | 103007020006 | 1    | Counterweight Installation         |
| 0   | 103007020002 | 1    | Turntable Shield Installation      |
| 1   | 103004020001 | 1    | Turntable cover, LH                |
| 2   | 103003020029 | 1    | Connecting plate                   |
| 3   | 103004020032 | 1    | Bracket                            |
| 4   | 103004020017 | 1    | Bracket                            |
| 5   | 103004020034 | 1    | Mount, left side                   |
| 6   | 103004020028 | 1    | Bracket                            |
| 7   | 209030000009 | 1    | Latch handle                       |
| 8   | 103004020036 | 1    | Adjusting pad                      |
| 9   | 105021020162 | 2    | Mounting plate                     |
| 10  | 103004020029 | 1    | Bracket                            |
| 11  | 105001020118 | 2    | Hinge                              |
| 12  | 210010000067 | 1    | Gas strut                          |
| 13  | 103004020035 | 1    | Adjusting pad                      |
| 14  | 215060000066 | 1    | Pin 4×25-ZnD GB/T 91               |
| 15  | 105017020107 | 1    | Clevis pin XJΦ10-115               |
| 16  | 209050000003 | 1    | Latch, left                        |
| 17  | 215010000052 | 1    | Bolt M6×25-A2-70 GB/T 5783         |
| 18  | 215030000004 | 1    | Nut M6-A2-70 GB/T 6170             |
| 19  | 215010000234 | 3    | Bolt M8×20-8.8-ZnD GB/T 5789       |
| 20  | 215010000230 | 4    | Bolt M6×16-8.8-ZnD GB/T 5789       |
| 21  | 215010000237 | 2    | Bolt M10×20-8.8-ZnD GB/T 5789      |
| 22  | 215010000239 | 2    | Bolt M10×30-8.8-ZnD GB/T 5789      |
| 23  | 215010000236 | 6    | Bolt M8×30-8.8-ZnD GB/T 5789       |
| 24  | 215010000231 | 5    | Bolt M6×20-8.8-ZnD GB/T 5789       |
| 25  | 215030000109 | 4    | Nut M10-8-ZnD GB/T 6183            |
| 26  | 215010000233 | 4    | Bolt M8×12-8.8-ZnD GB/T 5789       |
| 27  | 215030000108 | 10   | Nut M8-8-ZnD GB/T 6183             |
| 28  | 215010000238 | 2    | Bolt M10×25-8.8-ZnD GB/T 5789      |
| 29  | 216030000004 | 1    | Seal((Not shown))                  |

## 2.3 TURNTABLE RIGHT HOODS INSTALLATION



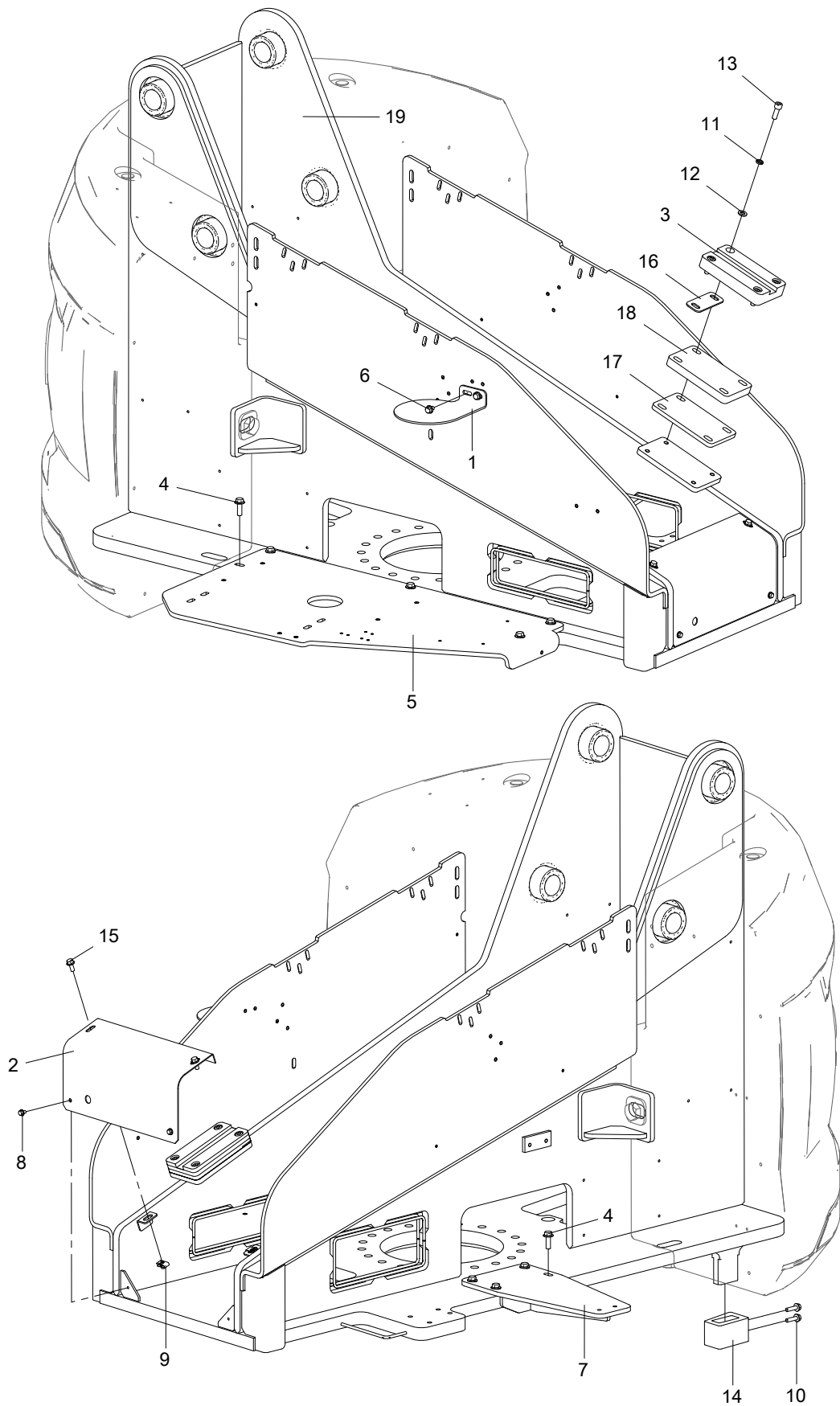
| No. | Part No.     | Qty. | Description                       |
|-----|--------------|------|-----------------------------------|
| 0   | 103007020002 | 1    | Turntable Shield Installation     |
| 0   | 103007023005 | 1    | Left turntable cover installation |
| 0   | 103007020006 | 1    | Counterweight Installation        |
| 1   | 103004020003 | 1    | Turntable cover, right            |
| 2   | 103004020033 | 1    | Mount, right side                 |
| 3   | 103004020028 | 1    | Bracket                           |
| 4   | 103004020032 | 1    | Bracket                           |
| 5   | 103004020029 | 1    | Bracket                           |
| 6   | 103003020029 | 1    | Connecting plate                  |
| 7   | 209030000009 | 1    | Latch handle                      |
| 8   | 104009020039 | 1    | Bracket                           |
| 9   | 105001020118 | 2    | Hinge                             |
| 10  | 103004020036 | 1    | Adjusting pad                     |
| 11  | 105021020162 | 2    | Mounting plate                    |
| 12  | 209050000002 | 1    | Latch, right                      |
| 13  | 105017020107 | 1    | Clevis pin XJΦ10-115              |
| 14  | 215010000052 | 1    | Bolt M6×25-A2-70 GB/T 5783        |
| 15  | 103004020035 | 1    | Adjusting pad                     |
| 16  | 215060000066 | 1    | Pin 4×25-ZnD GB/T 91              |
| 17  | 215030000004 | 1    | Nut M6-A2-70 GB/T 6170            |
| 18  | 210010000067 | 1    | Gas strut                         |
| 19  | 215030000109 | 4    | Nut M10-8-ZnD GB/T 6183           |
| 20  | 215010000237 | 2    | Bolt M10×20-8.8-ZnD GB/T 5789     |
| 21  | 215010000230 | 4    | Bolt M6×16-8.8-ZnD GB/T 5789      |
| 22  | 215010000238 | 2    | Bolt M10×25-8.8-ZnD GB/T 5789     |
| 23  | 215010000231 | 5    | Bolt M6×20-8.8-ZnD GB/T 5789      |
| 24  | 215010000236 | 6    | Bolt M8×30-8.8-ZnD GB/T 5789      |
| 25  | 215010000233 | 4    | Bolt M8×12-8.8-ZnD GB/T 5789      |
| 26  | 215010000234 | 3    | Bolt M8×20-8.8-ZnD GB/T 5789      |
| 27  | 215010000239 | 2    | Bolt M10×30-8.8-ZnD GB/T 5789     |
| 28  | 215030000108 | 10   | Nut M8-8-ZnD GB/T 6183            |
| 29  | 216030000004 | 1    | Seal(Not shown)                   |

### 2.4 COUNTERWEIGHT INSTALLATION



| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 0   | 103007020003 | 1    | Turntable Hoods Installation  |
| 0   | 103007020002 | 1    | Turntable Shield Installation |
| 1   | 105001020138 | 4    | Pad                           |
| 2   | 215010000164 | 4    | Bolt M24×70-8.8-ZnD GB/T 5782 |
| 3   | 103004020002 | 1    | Counterweight                 |
| 4   | 213060003001 | 2    | Choke plug                    |

2.5 TURNTABLE SHIELD INSTALLATION





| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 103006023005 | 1    | Plate, bending                 |
| 2   | 103004020031 | 1    | Cover                          |
| 3   | 103003020025 | 2    | Pad                            |
| 4   | 215010000239 | 9    | Bolt M10×30-8.8-ZnD GB/T 5789  |
| 5   | 103006020009 | 1    | Bracket                        |
| 6   | 215010000233 | 2    | Bolt M8×12-8.8-ZnD GB/T 5789   |
| 7   | 103004020021 | 1    | Support plate                  |
| 8   | 215010000229 | 2    | Bolt M6×10-8.8-ZnD GB/T 5789   |
| 9   | 215030000106 | 2    | B type spring nuts             |
| 10  | 215010000236 | 2    | Bolt M8×30-8.8-ZnD GB/T 5789   |
| 11  | 215040000006 | 8    | Washer 10-ZnD GB/T 93          |
| 12  | 215040000035 | 8    | Washer 10-200HV-ZnD GB/T 97.1  |
| 13  | 215020000050 | 8    | Screw M10×30-8.8-ZnD GB/T 70.1 |
| 14  | 104009020079 | 1    | block                          |
| 15  | 215010000234 | 2    | Bolt M8×20-8.8-ZnD GB/T 5789   |
| 16  | 103006023012 | 2    | Gasket, adjusting              |
| 17  | 103003020074 | 2    | Gasket, adjusting              |
| 18  | 103003020075 | 2    | Gasket, adjusting              |
| 19  | 103006020003 | 1    | Turntable structure            |

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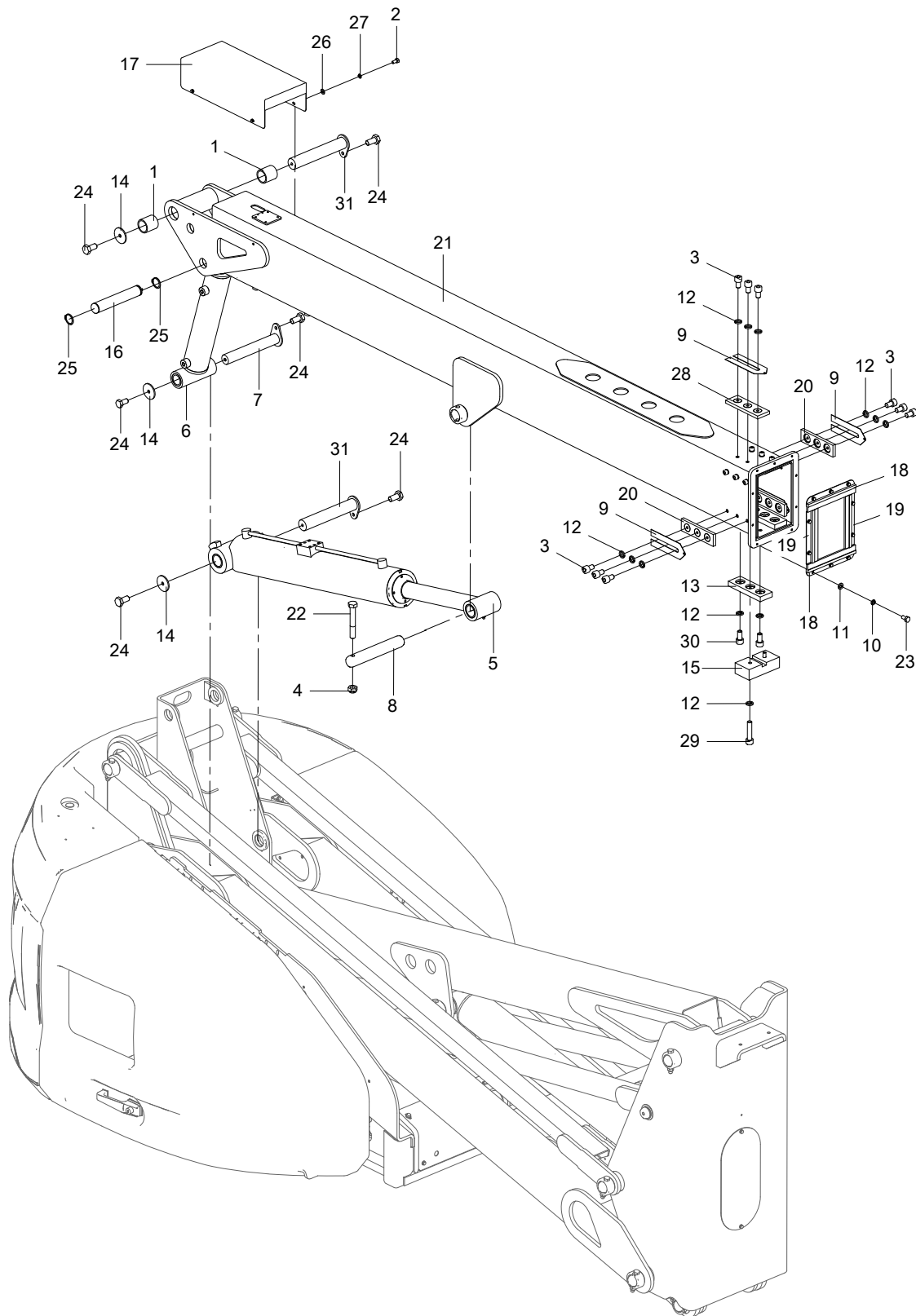
## **3 BOOM COMPONENTS**

This technical drawing is an exploded view of a mechanical assembly, likely a vehicle's front suspension or steering component. The diagram shows the main structural parts and their associated fasteners, with each part labeled with a number. The main components include a large upper control arm (1), a lower control arm (2), a steering knuckle (3), a ball joint (4), a tie rod end (5), a shock absorber (6), a coil spring (7), a strut (8), a steering knuckle (9), a ball joint (10), a tie rod end (11), a shock absorber (12), a coil spring (13), a strut (14), a steering knuckle (15), a ball joint (16), a tie rod end (17), a shock absorber (18), a coil spring (19), a strut (20), a steering knuckle (21), a ball joint (22), a tie rod end (23), a shock absorber (24), a coil spring (25), a strut (26), a steering knuckle (27), a ball joint (28), a tie rod end (29), a shock absorber (30), a coil spring (31), a strut (32), a steering knuckle (33), a ball joint (34), a tie rod end (35), a shock absorber (36), a coil spring (37), and a strut (38). The diagram is a black and white line drawing with dashed lines indicating the assembly path.

| No.  | Part No.     | Qty. | Description                            |
|------|--------------|------|----------------------------------------|
| 1    | 103006010009 | 1    | Tower boom, lower                      |
| 2    | 103003050014 | 1    | Lift cylinder, tower boom(D)           |
| 2a-1 | 207990003185 | 1    | Seal kit, cylinder(1000145)            |
| 2a-2 | 207990003194 | 1    | Seal kit, cylinder(1000148)            |
| 3    | 103003010073 | 2    | Pin assembly $\Phi 40-234$             |
| 4    | 215010000015 | 12   | Bolt M12 $\times$ 80-8.8-ZnD GB/T 5782 |
| 5    | 215040000097 | 6    | Retaining ring 40-DKL JB/ZQ 4342       |
| 6    | 215040000033 | 6    | Washer 6-A2 GB/T 97.1                  |
| 7    | 103003010064 | 2    | Shim                                   |
| 8    | 103006010012 | 2    | Pin XG $\Phi 40-160$                   |
| 9    | 215030000029 | 12   | Nut M12-8-ZnD GB/T 889.1               |
| 10   | 214030000027 | 2    | Bushing, self-lubricating              |
| 11   | 103003010059 | 1    | Seal plate                             |
| 12   | 103003010046 | 1    | Upright, upper                         |
| 13   | 103003010058 | 1    | Cover                                  |
| 14   | 103003010060 | 1    | Plate                                  |
| 15   | 103006010041 | 1    | Pin XG $\Phi 40-240$                   |
| 16   | 215010000068 | 4    | Bolt M10 $\times$ 20-8.8-ZnD GB/T 5783 |
| 17   | 215010000071 | 2    | Bolt M10 $\times$ 30-8.8-ZnD GB/T 5783 |
| 18   | 215010000238 | 1    | Bolt M10 $\times$ 25-8.8-ZnD GB/T 5789 |
| 19   | 215040000004 | 6    | Washer 6-A2-70 GB/T 93                 |
| 20   | 215040000006 | 2    | Washer 10-ZnD GB/T 93                  |
| 21   | 214030000055 | 8    | Bearing, self-lubricating              |
| 22   | 209020000002 | 3    | Keeper pin $\Phi 12-75$                |
| 23   | 214030000053 | 4    | Bearing, self-lubricating              |
| 24   | 103007010017 | 1    | Clevis pin XJ $\Phi 45-245$            |
| 25   | 103003010067 | 2    | Pin XG $\Phi 40-142$                   |
| 26   | 103006010044 | 1    | Link, lower, left side                 |
| 27   | 103007010015 | 1    | Tower boom, upper                      |
| 28   | 103007010014 | 1    | Link                                   |
| 29   | 103006010042 | 2    | Pin XG $\Phi 40-605$                   |
| 30   | 214030000054 | 8    | Bearing, self-lubricating              |
| 31   | 103006010040 | 1    | Pin XG $\Phi 40-405$                   |
| 32   | 103006010029 | 2    | Pin XG $\Phi 40-180$                   |
| 33   | 103006010036 | 1    | Link, upper                            |
| 34   | 103006010030 | 1    | Upright, lower                         |
| 35   | 103006010028 | 1    | Link, lower, right side                |

| No. | Part No.     | Qty. | Description                |
|-----|--------------|------|----------------------------|
| 36  | 103006010038 | 1    | Pin XGΦ40-525              |
| 37  | 215010000049 | 6    | Bolt M6×12-A2-70 GB/T 5783 |
| 38  | 103003010062 | 2    | Wahser                     |

## 3.2 BASE BOOM INSTALLATION



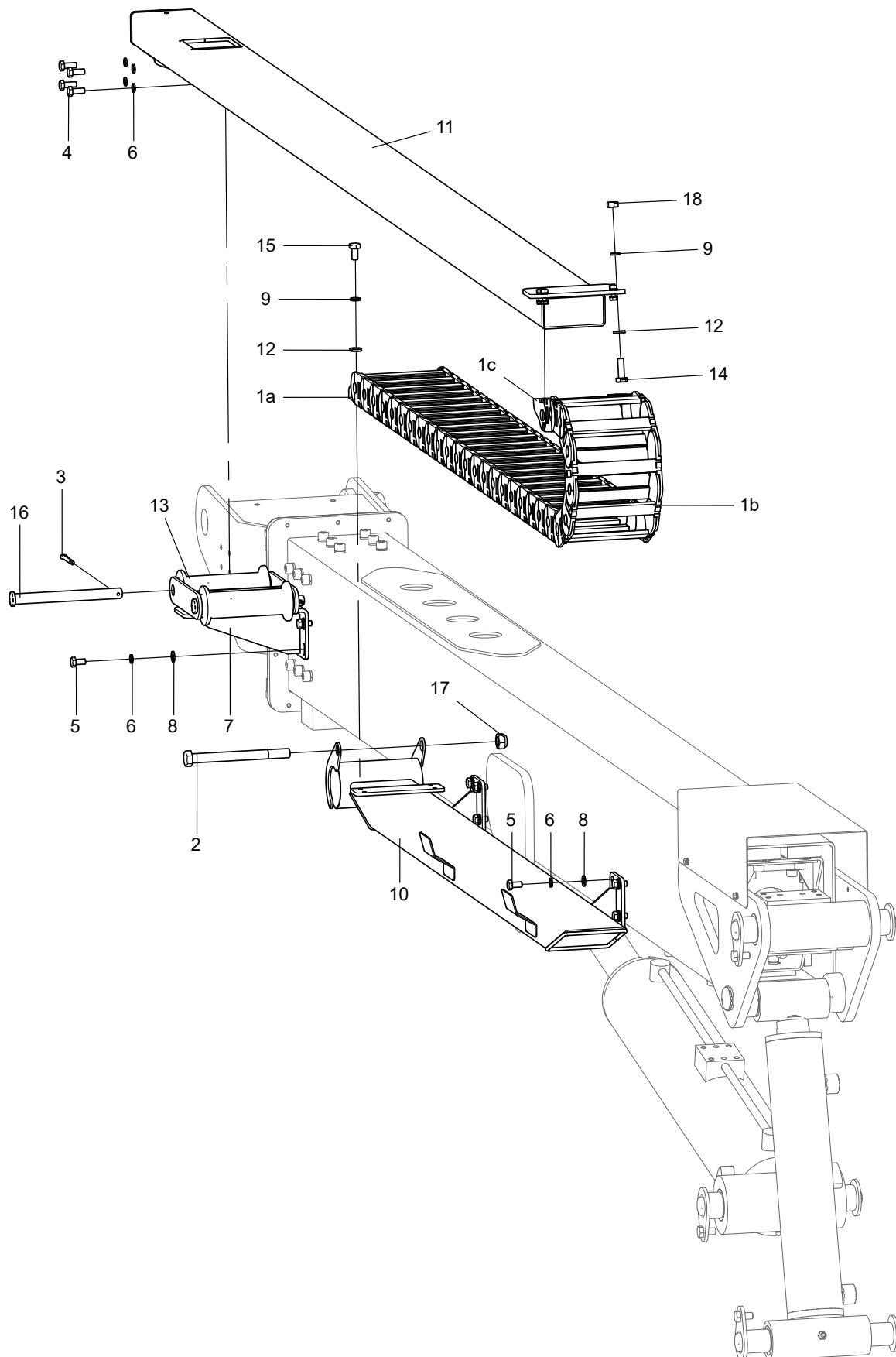
| No.  | Part No.     | Qty. | Description                      |
|------|--------------|------|----------------------------------|
| 1    | 214030000054 | 2    | Bearing, self-lubricating        |
| 2    | 215010000040 | 4    | Bolt M5×10-A2-70 GB/T 5783       |
| 3    | 215020000047 | 18   | Screw M10×16-8.8-ZnD GB/T 70.1   |
| 4    | 215030000029 | 1    | Nut M12-8-ZnD GB/T 889.1         |
| 5    | 103003050018 | 1    | Main lift cylinder(B)            |
| 5a-1 | 207990003188 | 1    | Seal kit, cylinder(1000145)      |
| 5a-2 | 207990003195 | 1    | Seal kit, cylinder(1000148)      |
| 6    | 103003050019 | 1    | Level cylinder, lower(C)         |
| 6a-1 | 207990003189 | 1    | Seal kit, cylinder(1000145)      |
| 6a-2 | 207990003193 | 1    | Seal kit, cylinder(1000148)      |
| 7    | 103003010076 | 1    | Pin assembly Φ35-234             |
| 8    | 103006010041 | 1    | Pin XGΦ40-240                    |
| 9    | 104009010103 | 6    | Shim                             |
| 10   | 215040000004 | 10   | Washer 6-A2-70 GB/T 93           |
| 11   | 215040000033 | 10   | Washer 6-A2 GB/T 97.1            |
| 12   | 215040000006 | 24   | Washer 10-ZnD GB/T 93            |
| 13   | 104008010105 | 2    | Wear pad assembly                |
| 14   | 103003010062 | 3    | Wahser                           |
| 15   | 103006013000 | 1    | Pad                              |
| 16   | 103003010061 | 1    | Pin XGΦ35-206                    |
| 17   | 103006010002 | 1    | Cover                            |
| 18   | 103006010008 | 2    | Brush, nylon                     |
| 19   | 103006010014 | 2    | Brush, nylon                     |
| 20   | 103006013021 | 4    | Wear pad assembly                |
| 21   | 103006010049 | 1    | Base boom                        |
| 22   | 215010000015 | 1    | Bolt M12×80-8.8-ZnD GB/T 5782    |
| 23   | 215010000049 | 10   | Bolt M6×12-A2-70 GB/T 5783       |
| 24   | 215010000068 | 6    | Bolt M10×20-8.8-ZnD GB/T 5783    |
| 25   | 215040000124 | 2    | Retaining ring 35-DKL JB/ZQ 4342 |
| 26   | 215040000032 | 4    | Washer 5-A2 GB/T 97.1            |
| 27   | 215040000003 | 4    | Washer 5-A2-70 GB/T 93           |
| 28   | 104009010108 | 2    | Wear pad assembly                |
| 29   | 215020000055 | 2    | Screw M10×45-8.8-ZnD GB/T 70.1   |
| 30   | 215020000048 | 4    | Screw M10×20-8.8-ZnD GB/T 70.1   |
| 31   | 103003010073 | 2    | Pin assembly Φ40-234             |



This technical diagram illustrates the exploded view of a Sinoboost outboard motor assembly. The main components are shown in their relative positions for assembly. The motor housing is at the bottom, with the brand name 'SINOBOOST' visible. The upper assembly includes a long drive shaft (2) connected to a lower gear (1) and an upper gear (18). Various brackets (9, 10, 11, 13, 14, 17), pins (3, 4, 7, 12, 15, 16), and a control cable (5) are shown. The diagram is labeled with numbers 1 through 18, corresponding to the parts list on the right.

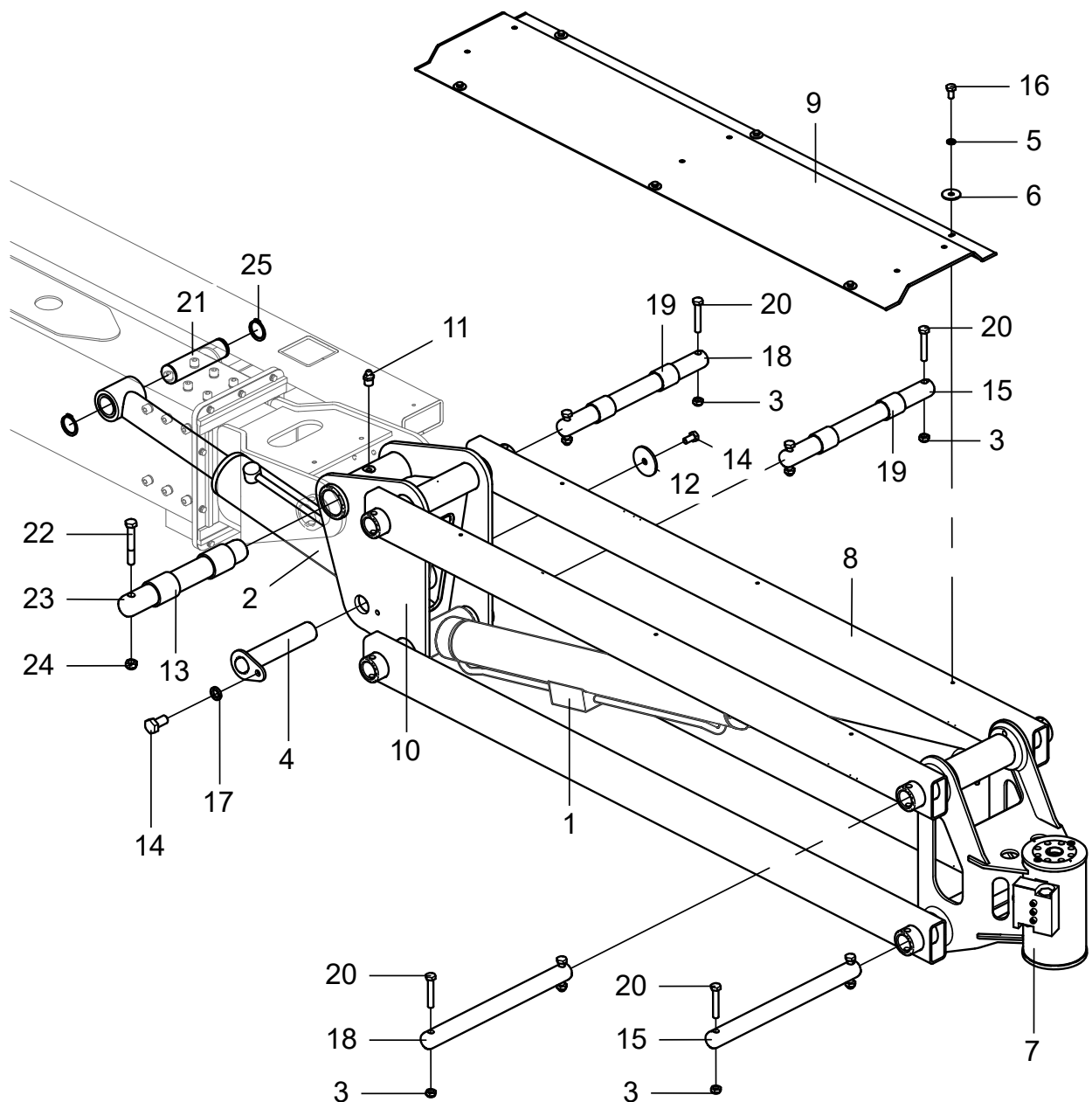
| No.  | Part No.     | Qty. | Description                      |
|------|--------------|------|----------------------------------|
| 1    | 104009010108 | 4    | Wear pad assembly                |
| 2    | 103006010050 | 1    | Telescopic boom                  |
| 3    | 103003010104 | 1    | Wear pad                         |
| 4    | 103003010061 | 1    | Pin XGΦ35-206                    |
| 5    | 103002050001 | 1    | Telescope cylinder(A)            |
| 5a-1 | 207990003183 | 1    | Seal kit, cylinder(1000145)      |
| 5a-2 | 207990003192 | 1    | Seal kit, cylinder(1000148)      |
| 6    | 103006010007 | 1    | Wear pad, nylon                  |
| 7    | 103006010032 | 1    | Pin XGΦ35-140                    |
| 8    | 103007013013 | 2    | Wear pad assembly                |
| 9    | 103003010120 | 2    | Wear pad assembly                |
| 10   | 104009010103 | 4    | Shim                             |
| 11   | 107001010178 | 4    | Shim                             |
| 12   | 215020000024 | 2    | Screw M8×25-8.8-ZnD GB/T 70.1    |
| 13   | 215040000006 | 24   | Washer 10-ZnD GB/T 93            |
| 14   | 215020000055 | 2    | Screw M10×45-8.8-ZnD GB/T 70.1   |
| 15   | 215040000124 | 4    | Retaining ring 35-DKL JB/ZQ 4342 |
| 16   | 215040000005 | 2    | Washer 8-ZnD GB/T 93             |
| 17   | 215020000049 | 4    | Screw M10×25-8.8-ZnD GB/T 70.1   |
| 18   | 215020000047 | 18   | Screw M10×16-8.8-ZnD GB/T 70.1   |

### 3.4 CABLE TRACK INSTALLATION



| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 204190000062 | 1    | Cable track and joints         |
| 1a  | 204190000063 | 1    | Fixing end joint               |
| 1b  | 204190000058 | 28   | Link section                   |
| 1c  | 204190000061 | 1    | End bracket, moving end        |
| 2   | 215010000223 | 1    | Bolt M14×155-8.8-ZnD GB/T 5782 |
| 3   | 215060000066 | 2    | Pin 4×25-ZnD GB/T 91           |
| 4   | 215010000057 | 4    | Bolt M8×20-8.8-ZnD GB/T 5783   |
| 5   | 215010000056 | 12   | Bolt M8×16-8.8-ZnD GB/T 5783   |
| 6   | 215040000005 | 16   | Washer 8-ZnD GB/T 93           |
| 7   | 103003010131 | 1    | Bracket                        |
| 8   | 215040000034 | 12   | Washer 8-200HV-ZnD GB/T 97.1   |
| 9   | 215040000004 | 8    | Washer 6-A2-70 GB/T 93         |
| 10  | 103004010002 | 1    | Tube, carrier                  |
| 11  | 103004010010 | 1    | Tube, push                     |
| 12  | 215040000033 | 8    | Washer 6-A2 GB/T 97.1          |
| 13  | 103003010124 | 2    | Roller                         |
| 14  | 215010000051 | 4    | Bolt M6×20-A2-70 GB/T 5783     |
| 15  | 215010000049 | 4    | Bolt M6×12-A2-70 GB/T 5783     |
| 16  | 103003010133 | 2    | Pin, clevis                    |
| 17  | 215030000080 | 1    | Nut M14-8-ZnD GB/T 889.1       |
| 18  | 215030000004 | 4    | Nut M6-A2-70 GB/T 6170         |

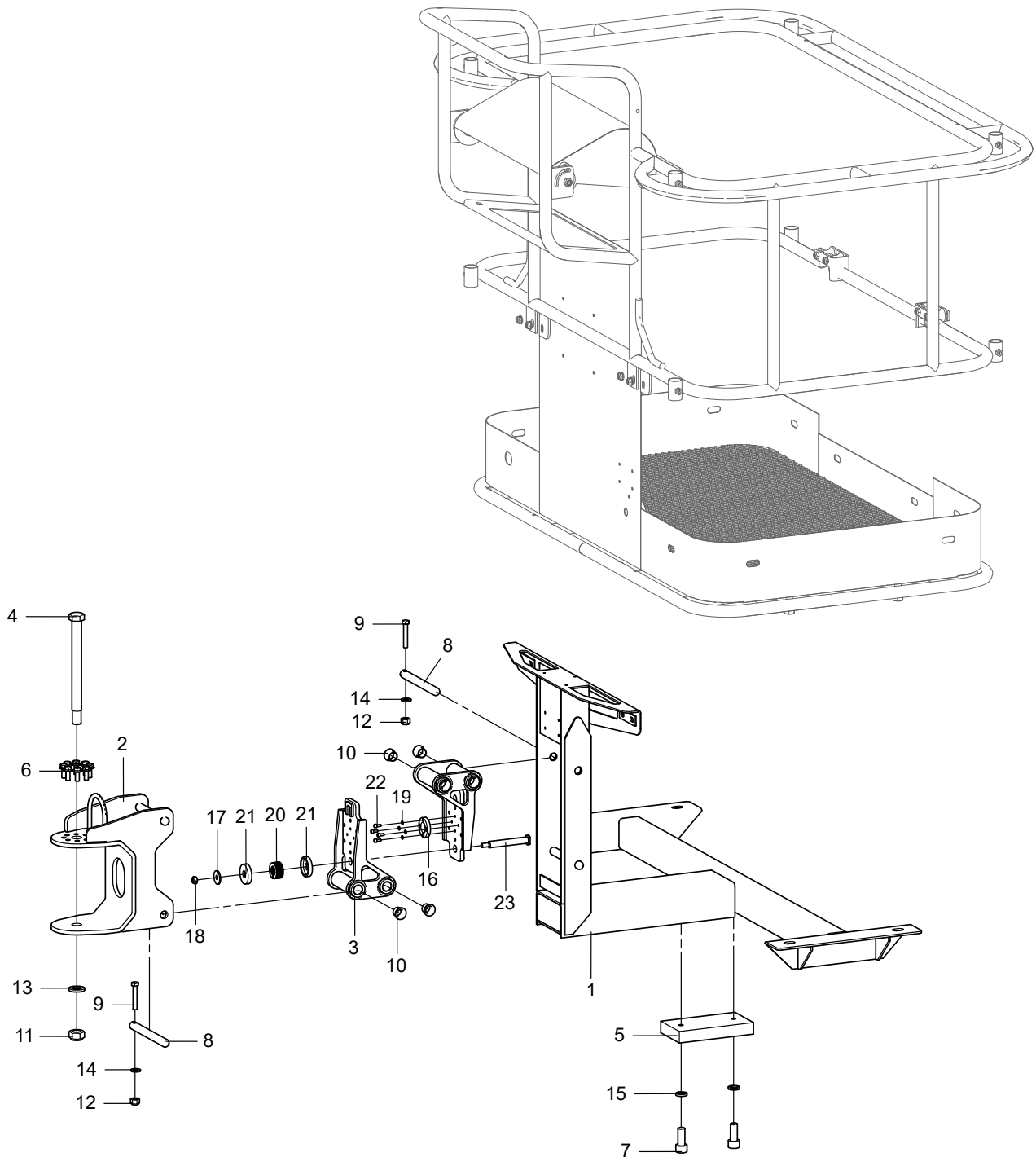
### 3.5 JIB BOOM INSTALLATION



| No.  | Part No.     | Qty. | Description                      |
|------|--------------|------|----------------------------------|
| 1    | 103003050017 | 1    | Lift cylinder, jib(D)            |
| 1a   | 207990003228 | 1    | Seal kit, cylinder(Not shown)    |
| 2    | 103003050016 | 1    | Level cylinder, upper(B)         |
| 2a-1 | 207990003186 | 1    | Seal kit, cylinder(1000145)      |
| 2a-2 | 207990003191 | 1    | Seal kit, cylinder(1000148)      |
| 3    | 215030000027 | 8    | Nut M10-8-ZnD GB/T 889.1         |
| 4    | 103003010145 | 1    | Pin assembly $\Phi 35-169$       |
| 5    | 215040000004 | 6    | Washer 6-A2-70 GB/T 93           |
| 6    | 215040000129 | 6    | Washer 6-100HV-ZnD GB/T 5287     |
| 7    | 202020000026 | 1    | Rotator                          |
| 7a   | 207990003197 | 1    | Seal kit, cylinde(Not shown)     |
| 8    | 103003010135 | 4    | Link                             |
| 9    | 103003010141 | 1    | Cover                            |
| 10   | 103003010153 | 1    | Conector                         |
| 11   | 207010000003 | 1    | Grease nipple M10×1 GB/T 1152    |
| 12   | 103003010062 | 1    | Wahser                           |
| 13   | 214030000054 | 2    | Bearing, self-lubricating        |
| 14   | 215010000068 | 2    | Bolt M10×20-8.8-ZnD GB/T 5783    |
| 15   | 103003010152 | 2    | Pin XG $\Phi 32-368$             |
| 16   | 215010000049 | 6    | Bolt M6×12-A2-70 GB/T 5783       |
| 17   | 215040000006 | 1    | Washer 10-ZnD GB/T 93            |
| 18   | 103003010154 | 2    | Pin XG $\Phi 32-358$             |
| 19   | 214030003019 | 4    | self-lubricating bearing         |
| 20   | 215010000010 | 8    | Bolt M10×60-8.8-ZnD GB/T 5782    |
| 21   | 103006010032 | 1    | Pin XG $\Phi 35-140$             |
| 22   | 215010000015 | 1    | Bolt M12×80-8.8-ZnD GB/T 5782    |
| 23   | 103006010020 | 1    | Pin XG $\Phi 40-295$             |
| 24   | 215030000029 | 1    | Nut M12-8-ZnD GB/T 889.1         |
| 25   | 215040000124 | 2    | Retaining ring 35-DKL JB/ZQ 4342 |

## **4 PLATFORM COMPONENTS**

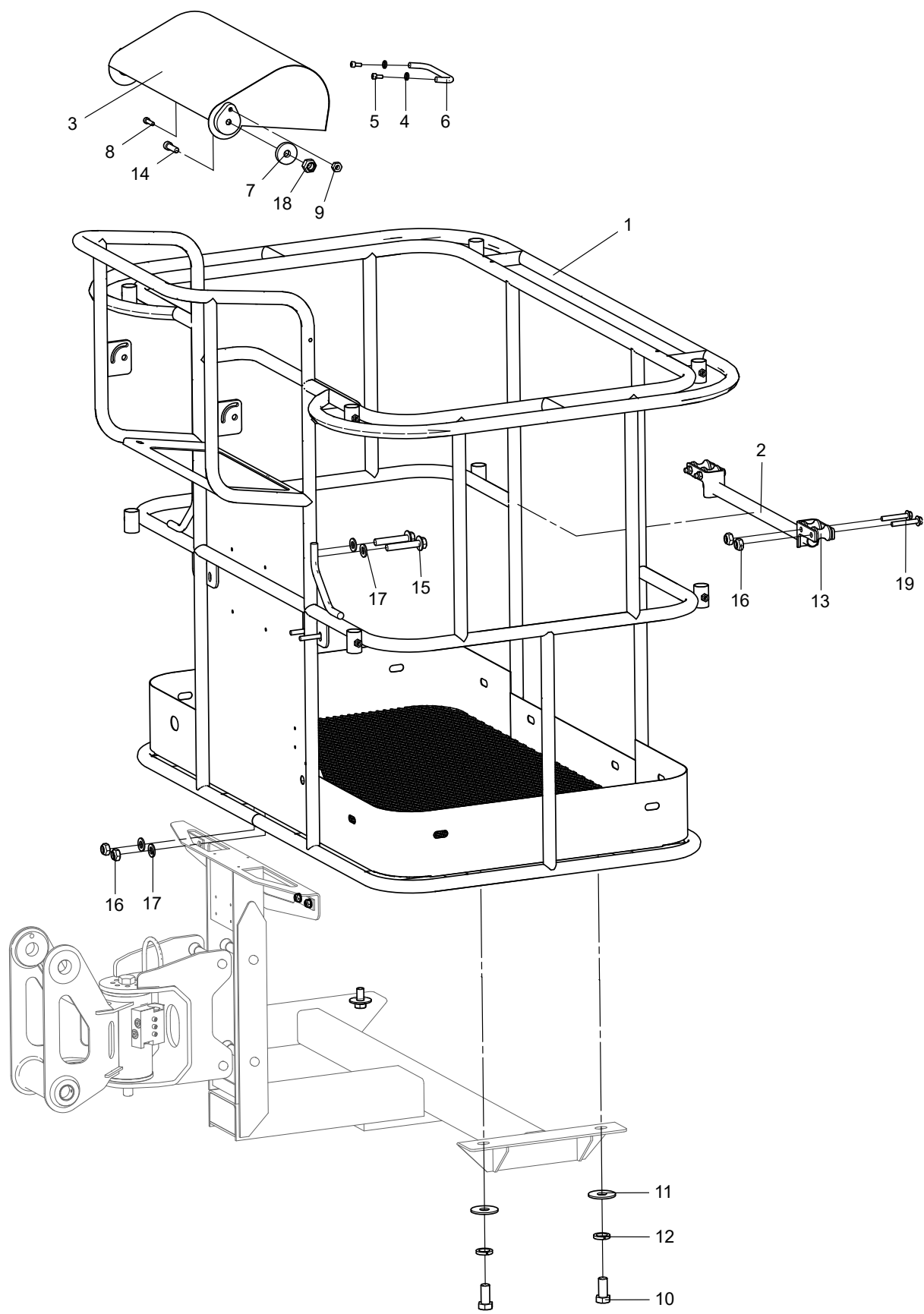
## 4.1 PLATFORM SUPPORT INSTALLATION





| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 105001040002 | 1    | Bracket                        |
| 2   | 105001040020 | 1    | Bracket                        |
| 3   | 105029013046 | 2    | Load support                   |
| 4   | 105001040032 | 1    | Bolt, swing motor              |
| 5   | 105001040006 | 1    | Pad                            |
| 6   | 215010000267 | 8    | Bolt M10×25-10.9-DKL GB/T 5789 |
| 7   | 215020000049 | 2    | Screw M10×25-8.8-ZnD GB/T 70.1 |
| 8   | 105001040034 | 4    | Pin XGΦ20-195                  |
| 9   | 215010000163 | 4    | Bolt M8×50-8.8-ZnD GB/T 5782   |
| 10  | 214080000001 | 8    | Bearing 20×23×21.5 SF-1F       |
| 11  | 215030000104 | 1    | Nut M22-8-ZnD GB/T889.1        |
| 12  | 215030000026 | 4    | Nut M8-8-ZnD GB/T889.1         |
| 13  | 215040000108 | 1    | Washer 22 GB/T 1230            |
| 14  | 215040000034 | 4    | Washer 8-200HV-ZnD GB/T 97.1   |
| 15  | 215040000006 | 2    | Washer 10-ZnD GB/T 93          |
| 16  | 103006060038 | 1    | Support plate                  |
| 17  | 215040000125 | 1    | Washer 10-100HV-ZnD GB/T 5287  |
| 18  | 215030000027 | 1    | Nut M10-8-ZnD GB/T 889.1       |
| 19  | 215040000003 | 4    | Washer 5-A2-70 GB/T 93         |
| 20  | 210110000001 | 1    | Spring, compression            |
| 21  | 105029013045 | 2    | Retaining ring                 |
| 22  | 215020000006 | 4    | Screw M5×12-A2-70 GB/T 70.1    |
| 23  | 105029013067 | 1    | Screw, self-build              |

4.2 PLATFORM INSTALLATION

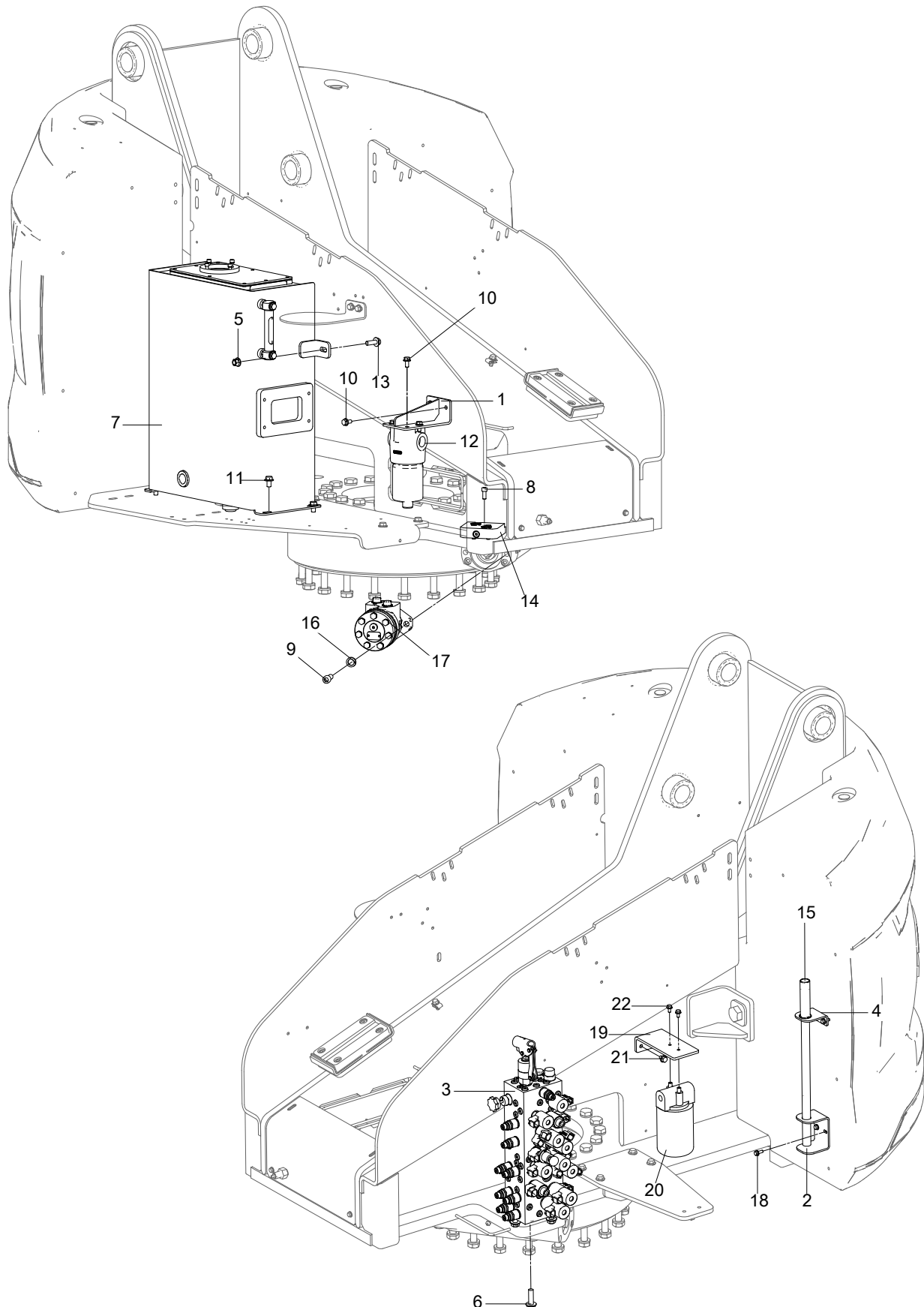


| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 103007043004 | 1    | Platform options               |
| 1-1 | 105001040039 | 1    | Platform(Small-sized)          |
| 1-2 | 105021040007 | 1    | Platform(Middle-sized)         |
| 2   | 105001040023 | 1    | Bar, drop                      |
| 3   | 105001040029 | 1    | Dust cover                     |
| 4   | 215040000002 | 2    | Washer 4-A2-70 GB/T 93         |
| 5   | 215020000001 | 2    | Screw M4×10-A2-70 GB/T 70.1    |
| 6   | 209030000001 | 1    | Handle, C.C.96mm               |
| 7   | 105001040055 | 2    | Plate                          |
| 8   | 215020000025 | 2    | Screw M8×30-8.8-ZnD GB/T 70.1  |
| 9   | 215030000005 | 2    | Nut M8-8-ZnD GB/T 6170         |
| 10  | 215010000109 | 4    | Bolt M16×35-8.8-ZnD GB/T 5783  |
| 11  | 215040000020 | 4    | Washer 16-200HV-ZnD GB/T 96.1  |
| 12  | 215040000008 | 4    | Washer 16 GB/T 93              |
| 13  | 105001040078 | 4    | Roller                         |
| 14  | 215020000208 | 2    | Screw M12×40-8.8-ZnD GB/T 70.1 |
| 15  | 215010000258 | 4    | Bolt M10×55-8.8-ZnD GB/T 5789  |
| 16  | 215030000027 | 8    | Nut M10-8-ZnD GB/T 889.1       |
| 17  | 215040000035 | 8    | Washer 10-200HV-ZnD GB/T 97.1  |
| 18  | 215030000029 | 2    | Nut M12-8-ZnD GB/T 889.1       |
| 19  | 215010000259 | 4    | Bolt M10×65-8.8-ZnD GB/T 5789  |

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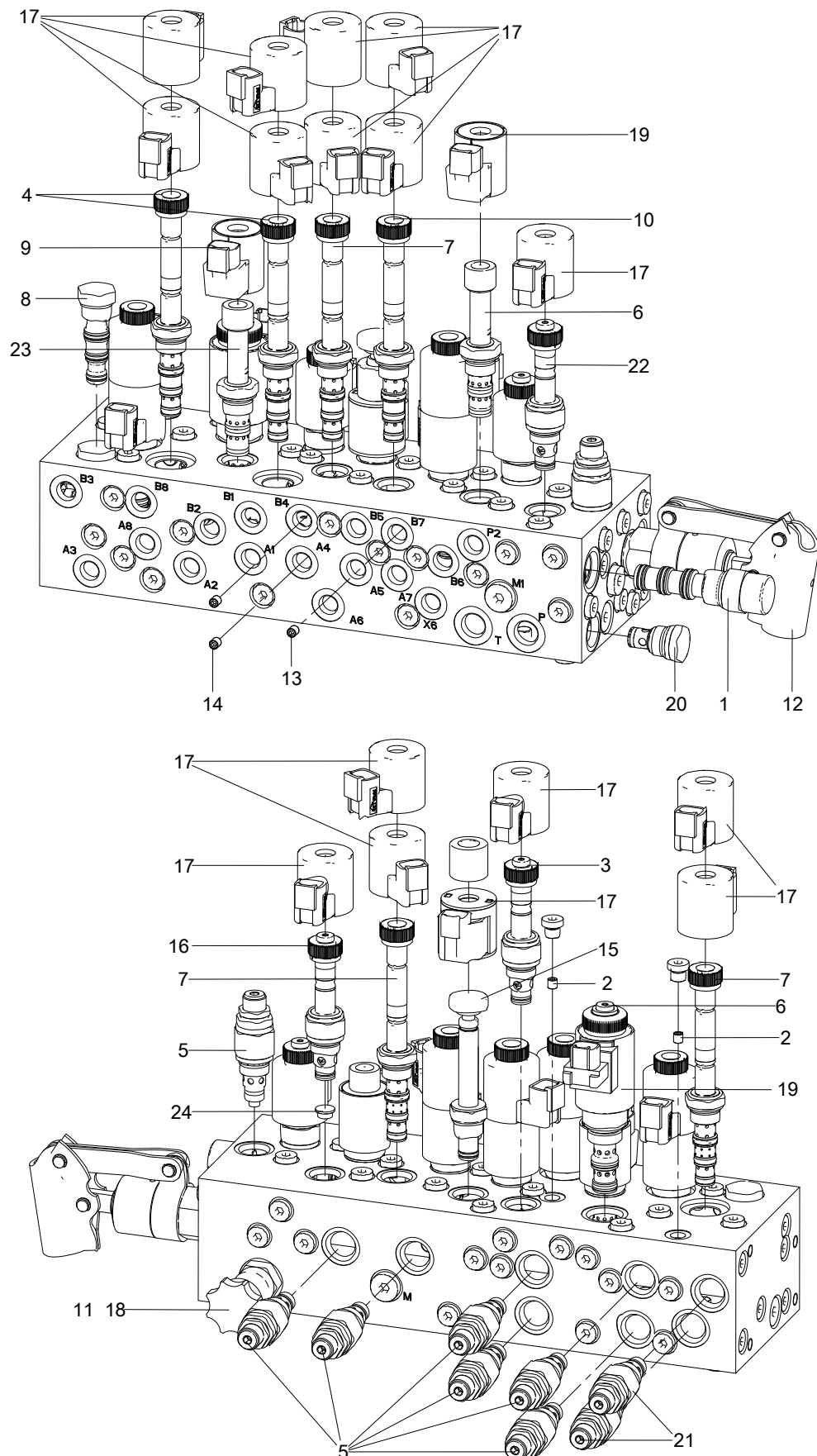
## **5 HYDRAULIC SYSTEM**

## 5.1 TURNTABLE HYDRAULIC COMPONENTS INSTALLATION



| No. | Part No.     | Qty. | Description                                                        |
|-----|--------------|------|--------------------------------------------------------------------|
| 1   | 103007023002 | 1    | Bracket, filter                                                    |
| 2   | 103006013001 | 1    | Baffle plate, handle                                               |
| 3   | 202040003489 | 1    | Boom function manifold                                             |
| 4   | 103006023011 | 1    | Mounting plate, handle                                             |
| 5   | 215030000109 | 1    | Nut M10-8-ZnD GB/T 6183                                            |
| 6   | 215010000244 | 4    | Bolt M12×40-8.8 ZnD GB/T 5789                                      |
| 7   | 103004050012 | 1    | Hydraulic tank assembly(See HYDRAULIC TANK ASSEMBLY for breakdown) |
| 8   | 215020000023 | 4    | Screw M8×20-8.8-ZnD GB/T 70.1                                      |
| 9   | 215020000076 | 2    | Screw M12×35-8.8-ZnD GB/T 70.1                                     |
| 10  | 215010000286 | 6    | Bolt M8×16-8.8-ZnD GB/T 5789                                       |
| 11  | 215010000245 | 4    | Bolt M10×16-8.8-ZnD GB/T 5789                                      |
| 12  | 202080000046 | 1    | High pressure filter                                               |
| 13  | 215010000239 | 1    | Bolt M10×30-8.8-ZnD GB/T 5789                                      |
| 14  | 202990003005 | 1    | Transition block, slewing                                          |
| 15  | 103007053008 | 1    | Control handle, manual pump                                        |
| 16  | 215040000007 | 2    | Washer 12-ZnD GB/T 93                                              |
| 17  | 202020000014 | 1    | Swing motor                                                        |
| 18  | 215010000230 | 4    | Bolt M6×16-8.8-ZnD GB/T 5789                                       |
| 19  | 103004053000 | 1    | Bend plate                                                         |
| 20  | 202080000001 | 1    | Filter                                                             |
| 21  | 215010000233 | 2    | Bolt M8×12-8.8-ZnD GB/T 5789                                       |
| 22  | 215010000281 | 2    | Bolt M6×12-8.8-ZnD GB/T 5789                                       |

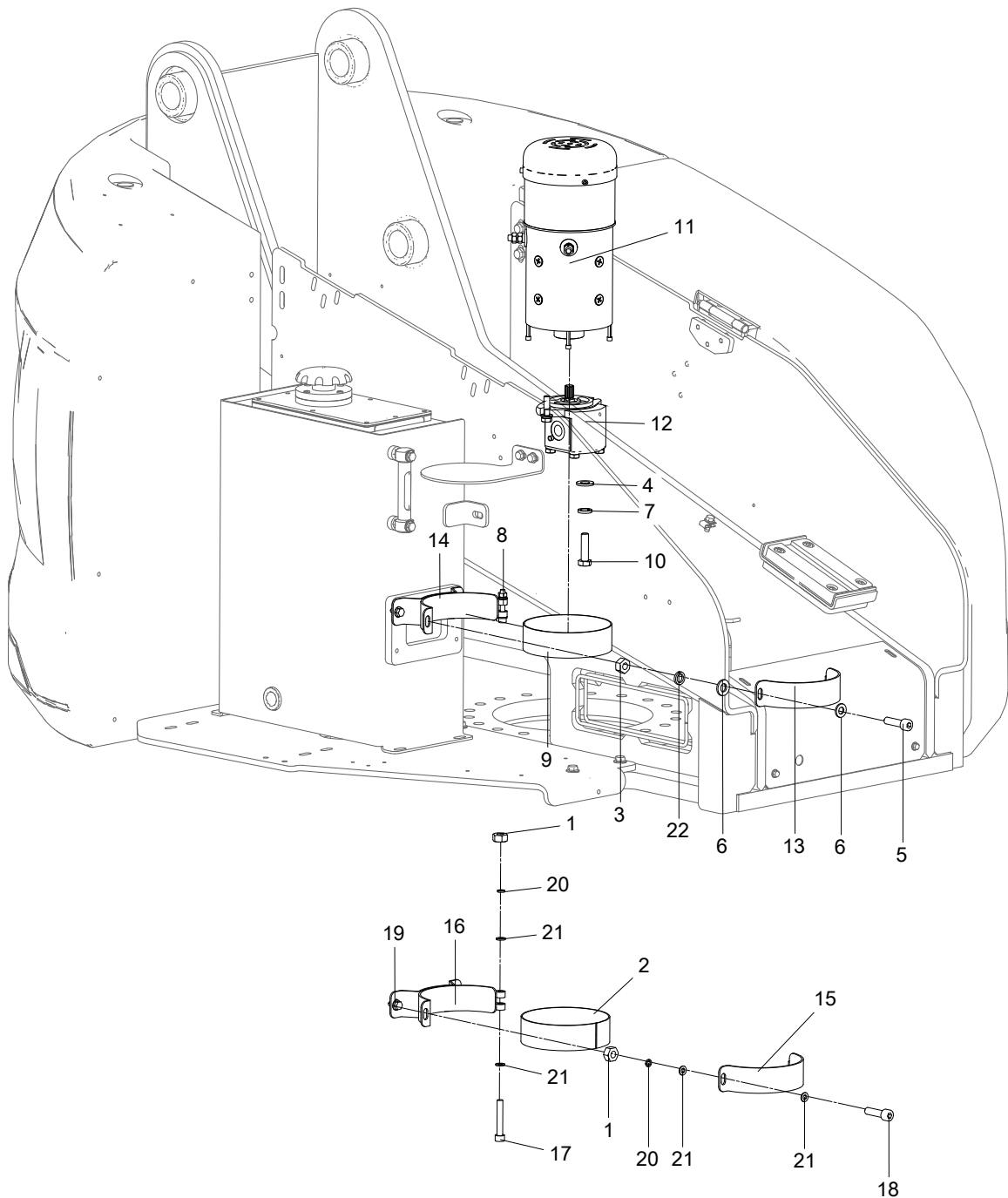
## 5.2 BOOM FUNCTION MANIFOLD (PN.202040003489)





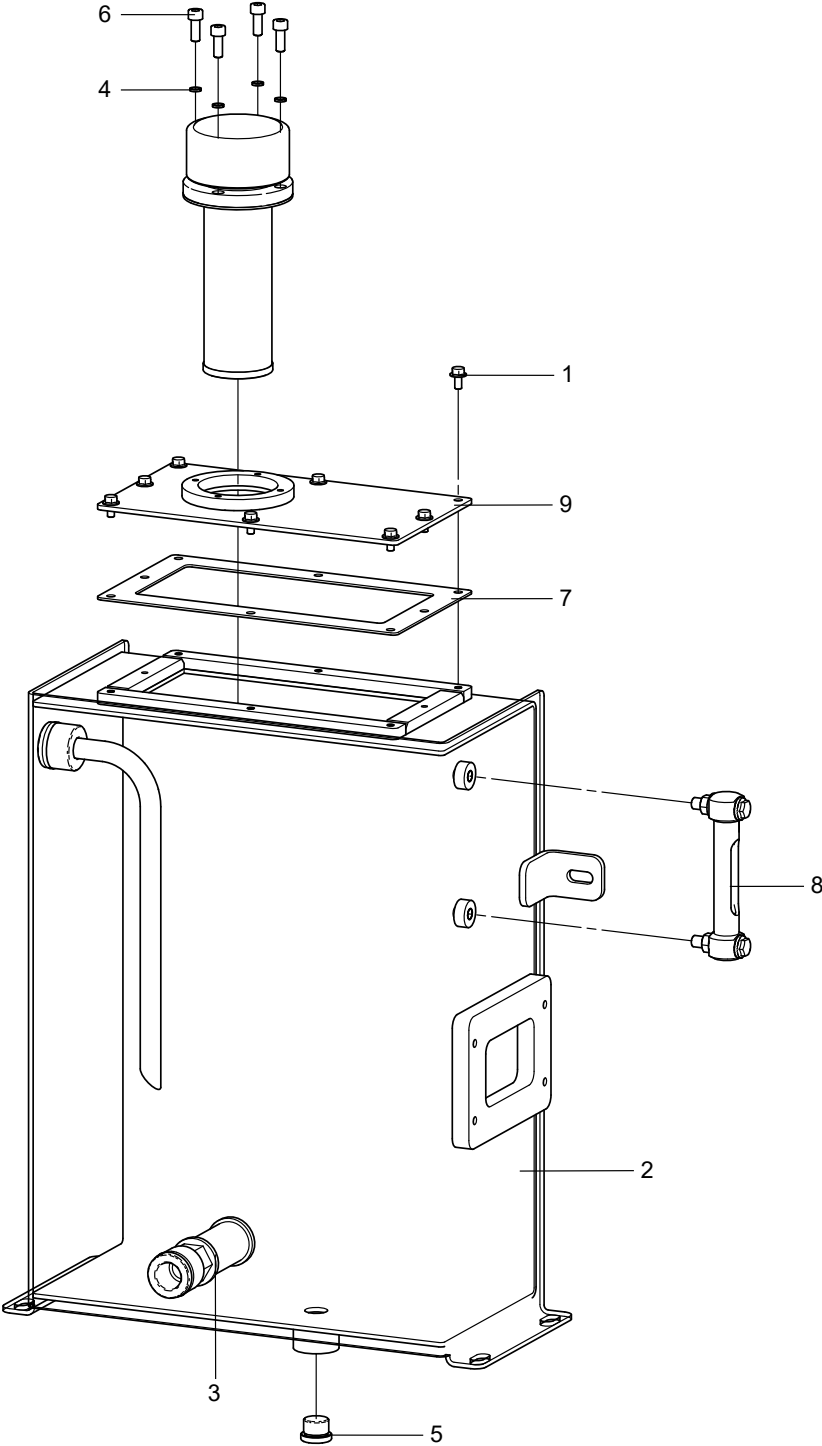
| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 1   | 202990003312 | 1    | Compensator valve             |
| 2   | 202130000008 | 2    | Damper plug                   |
| 3   | 202990003313 | 1    | Switch solenoid valve         |
| 4   | 202990003314 | 2    | Solenoid valve                |
| 5   | 202040003150 | 7    | Relief valve                  |
| 6   | 202990003326 | 2    | Solenoid valve                |
| 7   | 202040003371 | 3    | Electric valve                |
| 8   | 202990003044 | 1    | Bi-directional hydraulic lock |
| 9   | 202990003316 | 1    | Coil                          |
| 10  | 202990003317 | 1    | Solenoid valve                |
| 11  | 202040003149 | 1    | Manual directional valve      |
| 12  | 202040000421 | 1    | Manual pump valve             |
| 13  | 202130000007 | 1    | Damper plug                   |
| 14  | 202130003025 | 2    | Damper                        |
| 15  | 202990003319 | 1    | Solenoid valve                |
| 16  | 202990003320 | 1    | Switch solenoid valve         |
| 17  | 202990003144 | 16   | Coil                          |
| 18  | 202990003323 | 1    | Handle                        |
| 19  | 202990003144 | 2    | Coil                          |
| 20  | 202990003071 | 1    | Check valve                   |
| 21  | 202990000029 | 2    | Relief valve                  |
| 22  | 202990003321 | 1    | Solenoid valve                |
| 23  | 202990003322 | 1    | Solenoid valve                |
| 24  | 202130003033 | 1    | Damper                        |

## 5.3 POWER UNIT INSTALLATION



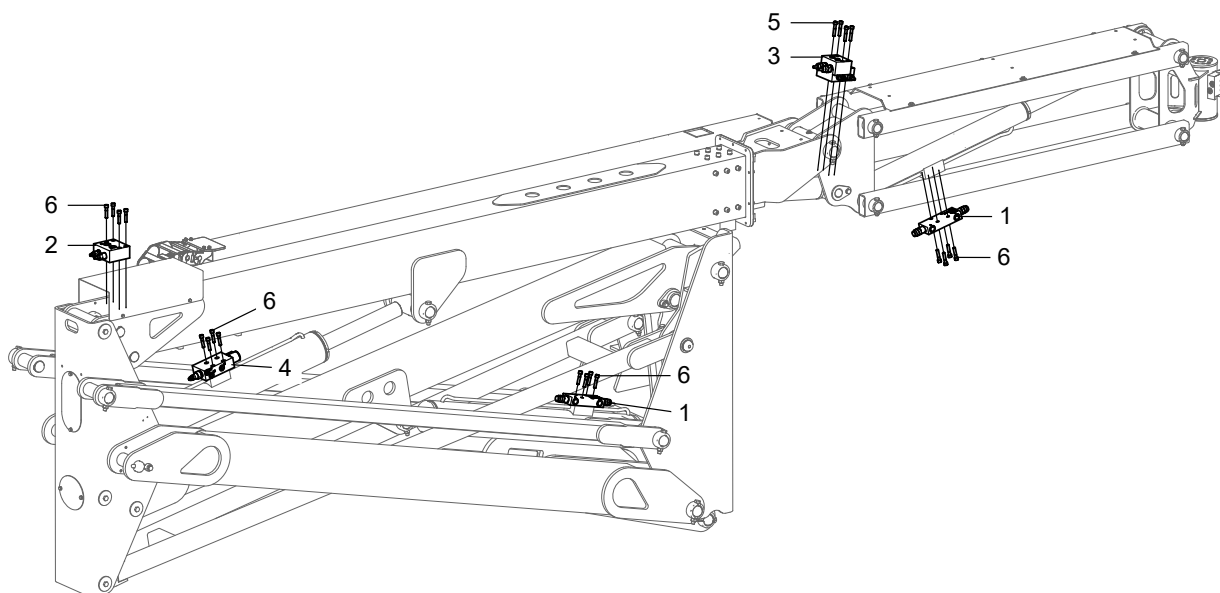
| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 1   | 215030000005 | 2    | Nut M8-8-ZnD GB/T 6170        |
| 2   | 103003050049 | 1    | Gasket, rubber                |
| 3   | 215030000005 | 2    | Nut M8-8-ZnD GB/T 6170        |
| 4   | 215040000035 | 2    | Washer 10-200HV-ZnD GB/T 97.1 |
| 5   | 215020000025 | 1    | Screw M8×30-8.8-ZnD GB/T 70.1 |
| 6   | 215040000034 | 4    | Washer 8-200HV-ZnD GB/T 97.1  |
| 7   | 215040000006 | 2    | Washer 10-ZnD GB/T 93         |
| 8   | 215020000032 | 1    | Screw M8×50-8.8-ZnD GB/T 70.1 |
| 9   | 103003050049 | 1    | Gasket, rubber                |
| 10  | 215080000013 | 2    | Bolt 3/8"-16UNC-1.5inches GR5 |
| 11  | 203010000014 | 1    | Motor (5kW)                   |
| 11a | 203990003014 | 1    | Carbon brush                  |
| 12  | 202010000024 | 1    | Gear pump                     |
| 13  | 103003050024 | 1    | Top cover                     |
| 14  | 103003050025 | 1    | Bracket, power unit           |
| 15  | 103003050024 | 1    | Top cover                     |
| 16  | 103003050025 | 1    | Bracket, power unit           |
| 17  | 215020000032 | 1    | Screw M8×50-8.8-ZnD GB/T 70.1 |
| 18  | 215020000025 | 1    | Screw M8×30-8.8-ZnD GB/T 70.1 |
| 19  | 215010000286 | 4    | Bolt M8×16-8.8-ZnD GB/T 5789  |
| 20  | 215040000005 | 2    | Washer 8-ZnD GB/T 93          |
| 21  | 215040000034 | 4    | Washer 8-200HV-ZnD GB/T 97.1  |
| 22  | 215040000005 | 2    | Washer 8-ZnD GB/T 93          |

5.4 HYDRAULIC TANK ASSEMBLY



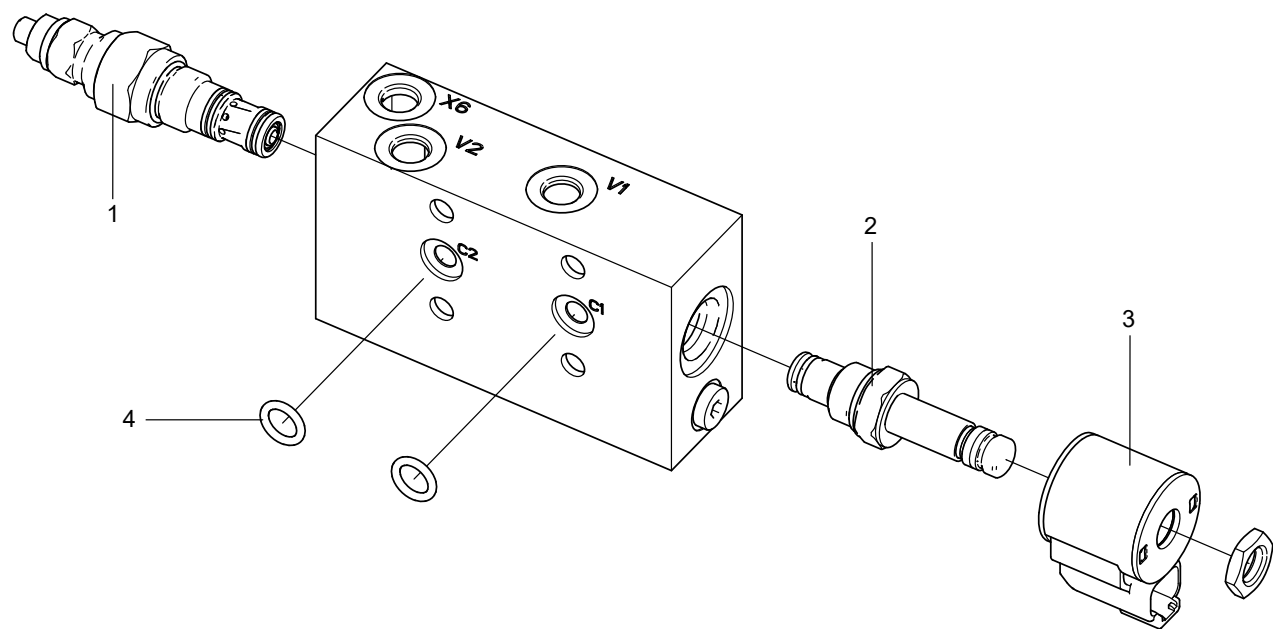
| No. | Part No.     | Qty. | Description                  |
|-----|--------------|------|------------------------------|
| 1   | 215010000281 | 8    | Bolt M6×12-8.8-ZnD GB/T 5789 |
| 2   | 103004050004 | 1    | Hydraulic tank               |
| 3   | 202080000017 | 1    | Suction filter               |
| 4   | 215040000004 | 4    | Washer 6-A2-70 GB/T 93       |
| 5   | 213060000004 | 1    | Plug                         |
| 6   | 215020000011 | 4    | Screw M6×16-A2-70 GB/T 70.1  |
| 7   | 103004050008 | 1    | Gasket, rubber               |
| 8   | 202120000005 | 1    | Liquid level indicator       |
| 9   | 103004050001 | 1    | Cover assembly               |
| 10  | 202070003014 | 1    | Air filter                   |

## 5.5 BOOM VALVES INSTALLATION



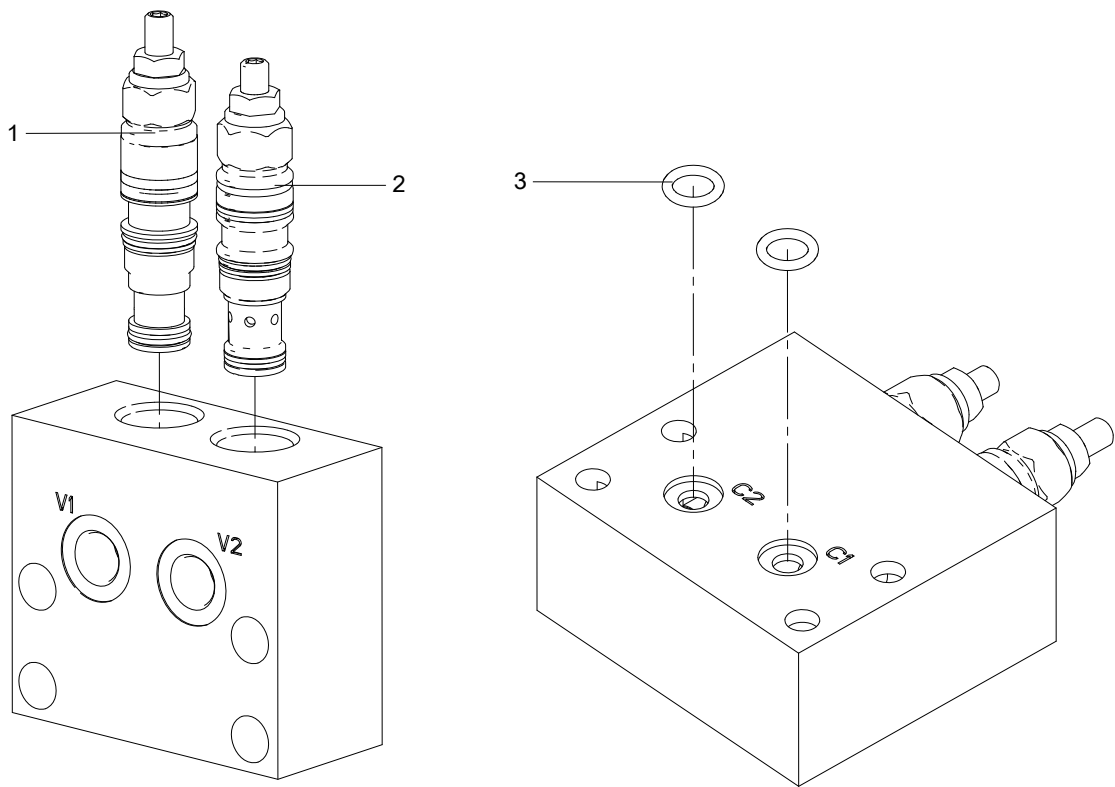
| No. | Part No.     | Qty. | Description                               |
|-----|--------------|------|-------------------------------------------|
| 1   | 103004050024 |      | 2-way counterbalance valve options        |
| 1-1 | 202040000011 | 2    | Counterbalance valve, leveling            |
| 2   | 103004050027 |      | Counterbalance valve options, telescoping |
| 2-1 | 202040003012 | 1    | Telescope counterbalance valve            |
| 3   | 103004050025 |      | Options, Level counterbalance valve       |
| 3-1 | 202040000440 | 1    | Counterbalance valve, leveling            |
| 4   | 103006053012 |      | Main lift counterbalance valve options    |
| 4-4 | 202040003055 | 1    | Main lift counterbalance valve            |
| 5   | 215020000031 | 4    | Screw M8×45-10.9-DKL GB/T 70.1            |
| 6   | 215020000029 | 16   | Screw M8×40-10.9-DKL GB/T 70.1            |

5.6 MAIN LIFT COUNTERBALANCE VALVE (PN.202040003055)



| No. | Part No.     | Qty. | Description                 |
|-----|--------------|------|-----------------------------|
| 1   | 202040003207 | 1    | Spool                       |
| 2   | 202040003296 | 1    | Solenoid proportional valve |
| 3   | 202990000037 | 1    | Coil                        |
| 4   | 207040003003 | 2    | O-ring                      |

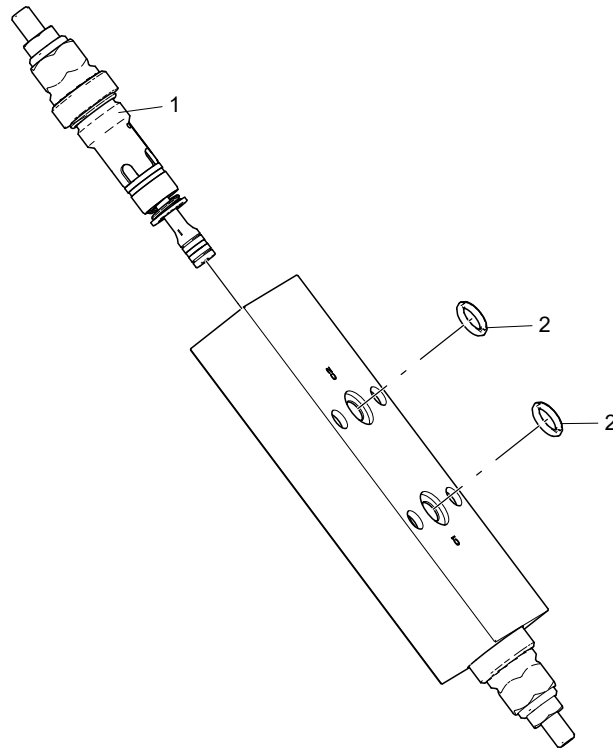
5.7 TELESCOPE COUNTERBALANCE VALVE (PN.202040003012)



| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 202990003036 | 1    | Counterbalance valve spool     |
| 2   | 202040003410 | 1    | Telescope counterbalance valve |
| 3   | 207040003003 | 2    | O-ring                         |

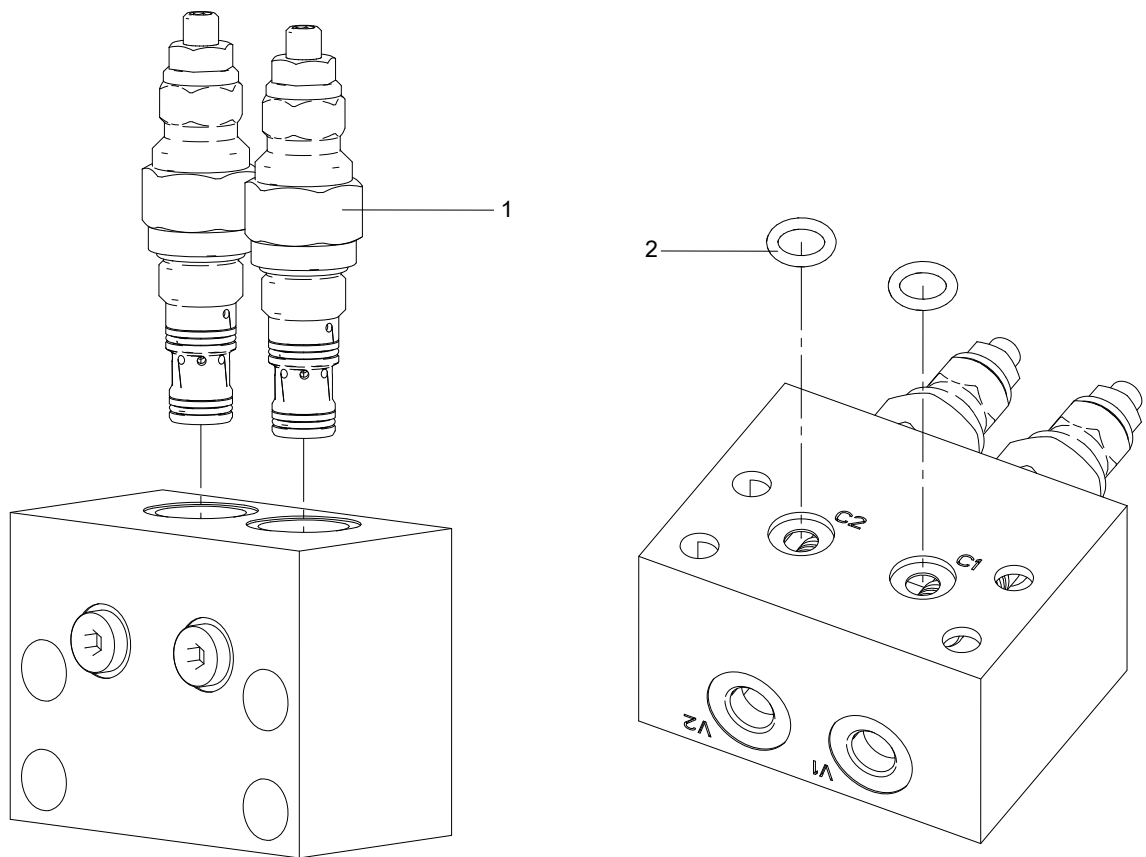


## 5.8 COUNTERBALANCE VALVE, LEVELING (PN.20204000011)



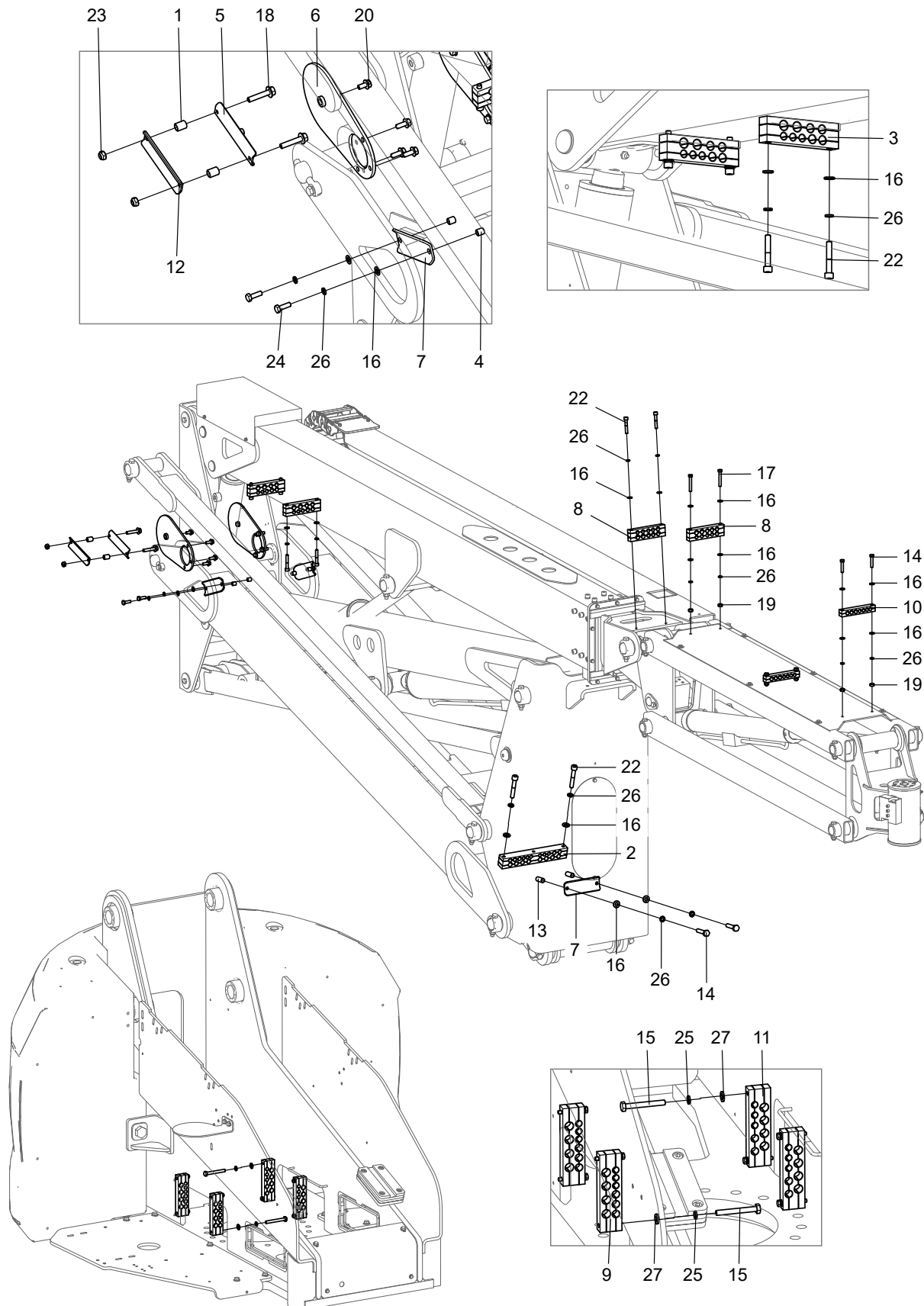
| No. | Part No.     | Qty. | Description                |
|-----|--------------|------|----------------------------|
| 1   | 202990003040 | 2    | Counterbalance valve spool |
| 2   | 207040003003 | 2    | O-ring                     |

5.9 COUNTERBALANCE VALVE, LEVELING (PN.202040000440)



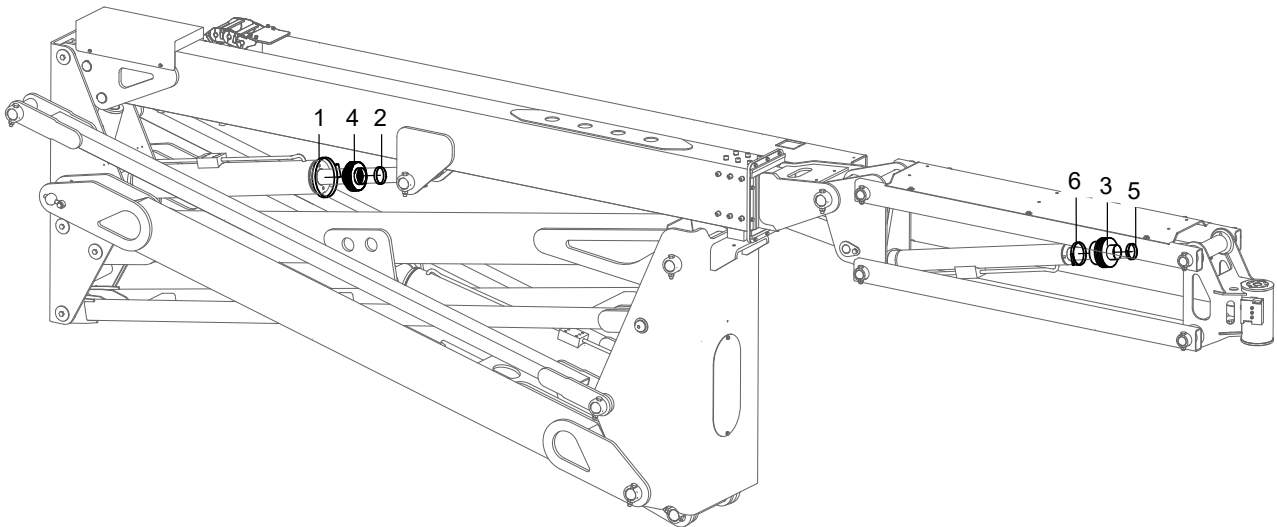
| No. | Part No.     | Qty. | Description          |
|-----|--------------|------|----------------------|
| 1   | 202990003219 | 2    | Counterbalance valve |
| 2   | 207040003003 | 2    | O-ring               |

## 5.10 HOSE CLAMP AND BRACKET INSTALLATION



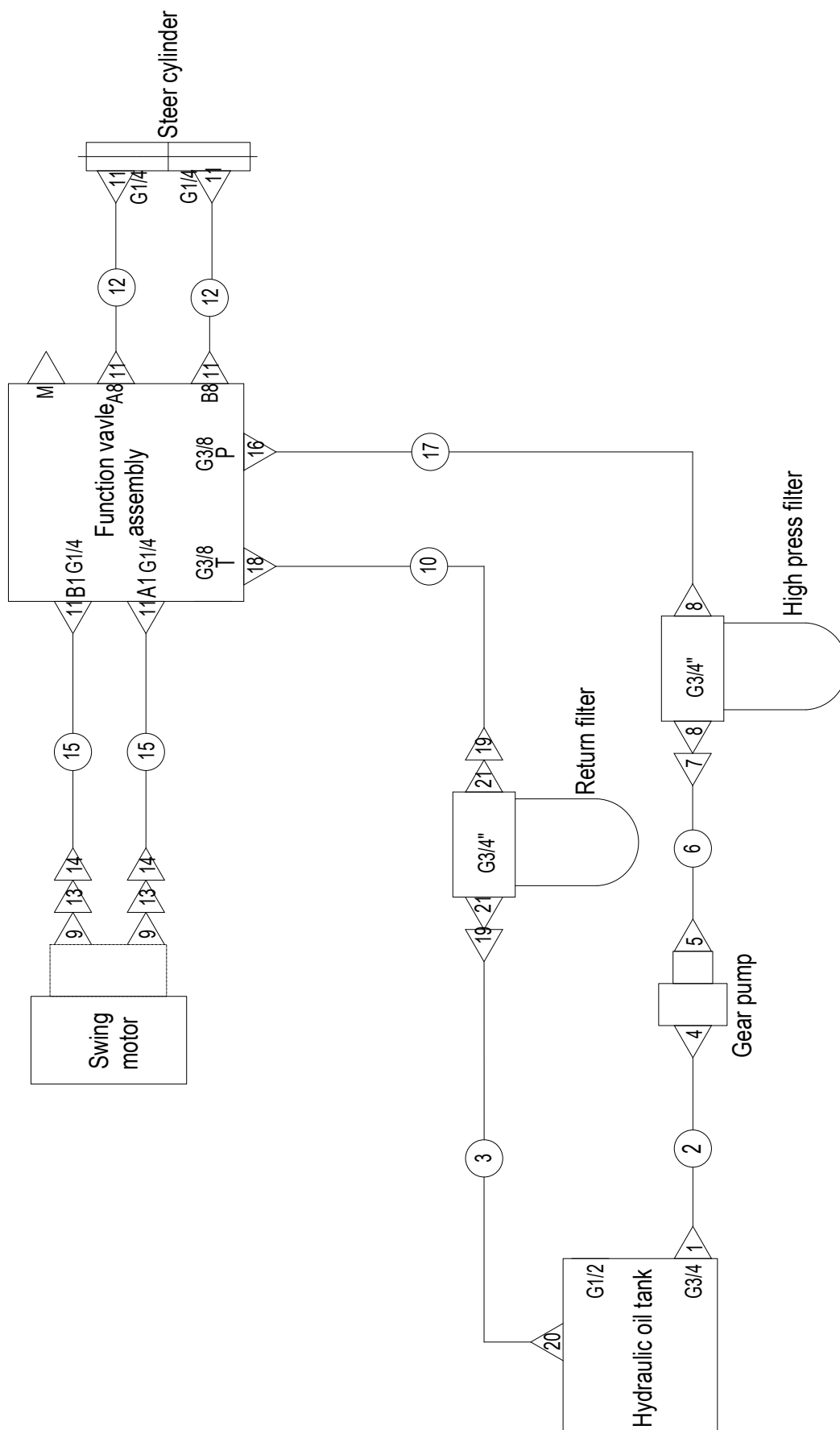
| No. | Part No.     | Qty. | Description                      |
|-----|--------------|------|----------------------------------|
| 1   | 103006013014 | 4    | Round tube                       |
| 2   | 103006053006 | 1    | Clamp                            |
| 3   | 103006053005 | 2    | Clamp, main boom                 |
| 4   | 103006053020 | 4    | Steel pipe                       |
| 5   | 103006013012 | 2    | Bracket                          |
| 6   | 103006013006 | 2    | Bracket                          |
| 7   | 103003050039 | 3    | Bracket                          |
| 8   | 103006053001 | 2    | Clamp, jib hose                  |
| 9   | 103006053004 | 2    | Clamp, turntable hose, left side |
| 10  | 103006053003 | 2    | Clamp, jib hose                  |
| 11  | 103006053002 | 2    | Clamp                            |
| 12  | 103006013015 | 2    | Channel plate                    |
| 13  | 101012030104 | 2    | Spacer sleeve                    |
| 14  | 215010000061 | 6    | Bolt M8×40-8.8-ZnD GB/T 5783     |
| 15  | 215010000055 | 8    | Bolt M6×50-A2-70 GB/T 5783       |
| 16  | 215040000034 | 26   | Washer 8-200HV-ZnD GB/T 97.1     |
| 17  | 215010000064 | 2    | Bolt M8×55-8.8-ZnD GB/T 5783     |
| 18  | 215010000282 | 4    | Bolt M6×30-8.8-ZnD GB/T 5789     |
| 19  | 215030000005 | 6    | Nut M8-8-ZnD GB/T 6170           |
| 20  | 215010000286 | 2    | Bolt M8×16-8.8-ZnD GB/T 5789     |
| 21  | 215010000234 | 6    | Bolt M8×20-8.8-ZnD GB/T 5789     |
| 22  | 215020000032 | 8    | Screw M8×50-8.8-ZnD GB/T 70.1    |
| 23  | 215030000025 | 4    | Nut M6-8-A2-70 GB/T 889.1        |
| 24  | 215010000058 | 4    | Bolt M8×25-8.8-ZnD GB/T 5783     |
| 25  | 215040000004 | 8    | Washer 6-A2-70 GB/T 93           |
| 26  | 215040000005 | 20   | Washer 8-ZnD GB/T 93             |
| 27  | 215040000033 | 8    | Washer 6-A2 GB/T 97.1            |

## 5.11 CYLINDER BELLOWS INSTALLATION



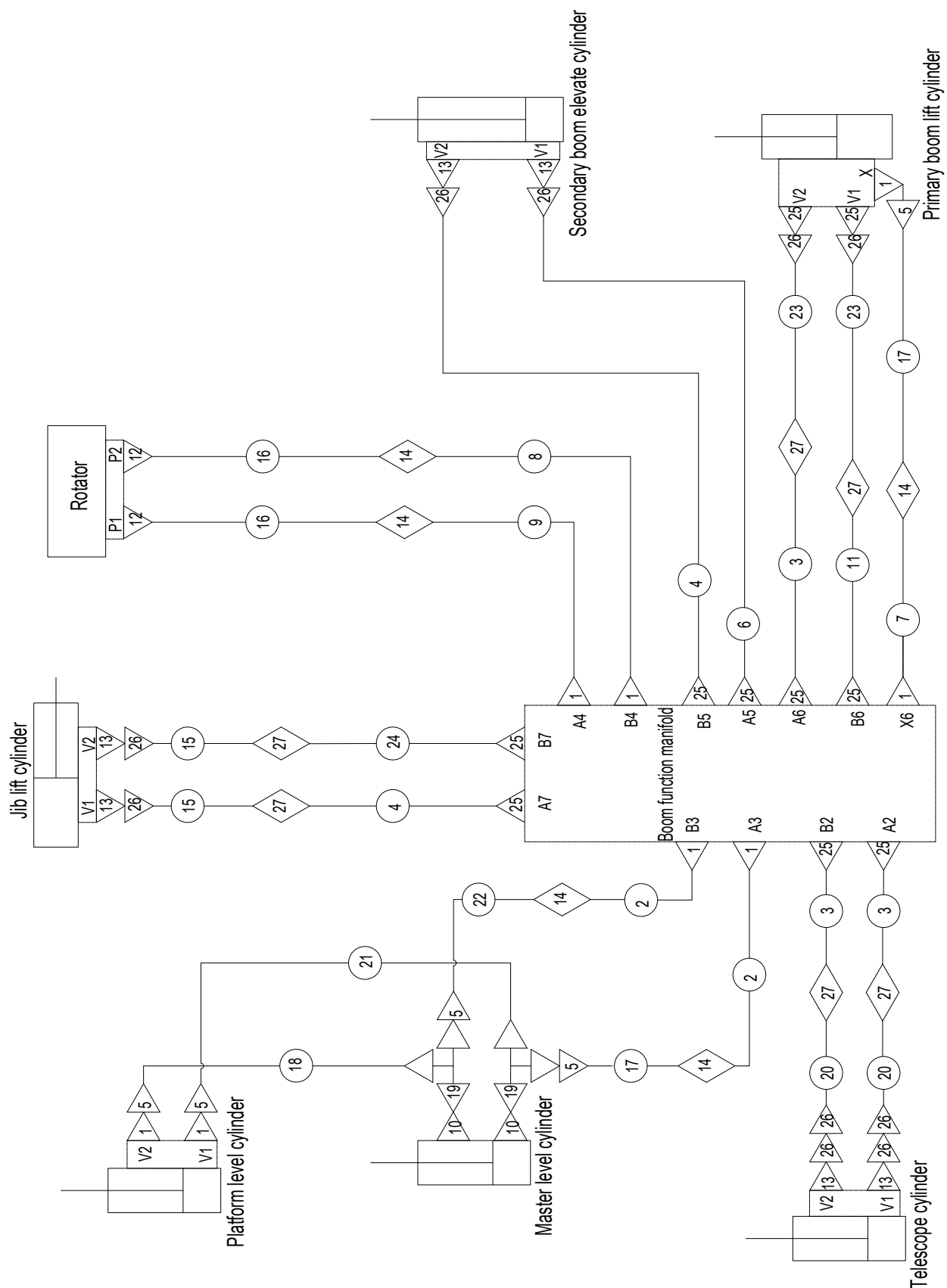
| No. | Part No.     | Qty. | Description                |
|-----|--------------|------|----------------------------|
| 1   | 216020000022 | 1    | Clamp                      |
| 2   | 216020000007 | 1    | Clamp, non-perforated, DIN |
| 3   | 103005050008 | 1    | Jacket, cylinder           |
| 4   | 103003050048 | 1    | Main lift cylinder bellow  |
| 5   | 216020000002 | 1    | Clamp, non-perforated, DIN |
| 6   | 216020000009 | 1    | Clamp                      |

## 5.12 TURNTABLE TUBES LAYOUT



| No. | Part No.     | Qty. | Description |
|-----|--------------|------|-------------|
| 1   | 213010000082 | 1    | Fitting     |
| 2   | 213050003557 | 1    | Hose        |
| 3   | 213050000643 | 1    | Hose        |
| 4   | 213010000092 | 1    | Fitting     |
| 5   | 213010000038 | 2    | Fitting     |
| 6   | 213050003223 | 1    | Hose        |
| 7   | 213010000055 | 1    | Fitting     |
| 8   | 213010000249 | 2    | Fitting     |
| 9   | 213010000006 | 2    | Fitting     |
| 10  | 213050003228 | 1    | Hose        |
| 11  | 213010000007 | 6    | Fitting     |
| 12  | 213050001329 | 2    | Hose        |
| 13  | 213010000157 | 2    | Fitting     |
| 14  | 213010000024 | 2    | Fitting     |
| 15  | 213050000453 | 2    | Hose        |
| 16  | 213010000005 | 1    | Fitting     |
| 17  | 213050000411 | 1    | Hose        |
| 18  | 213010000003 | 1    | Fitting     |
| 19  | 213010000008 | 2    | Fitting     |
| 20  | 213010000039 | 1    | Fitting     |
| 21  | 213010000014 | 2    | Fitting     |

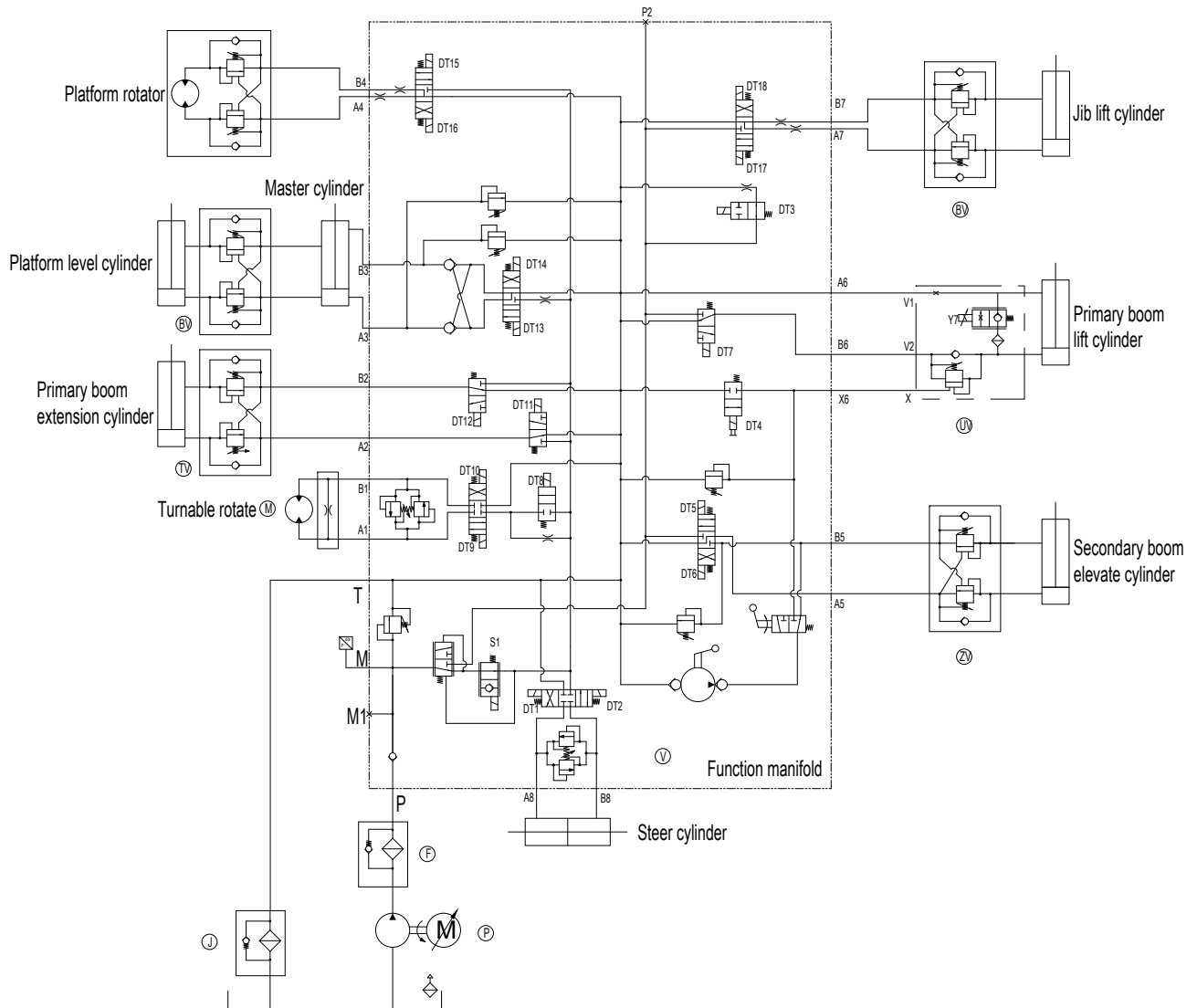
## 5.13 BOOM TUBES LAYOUT





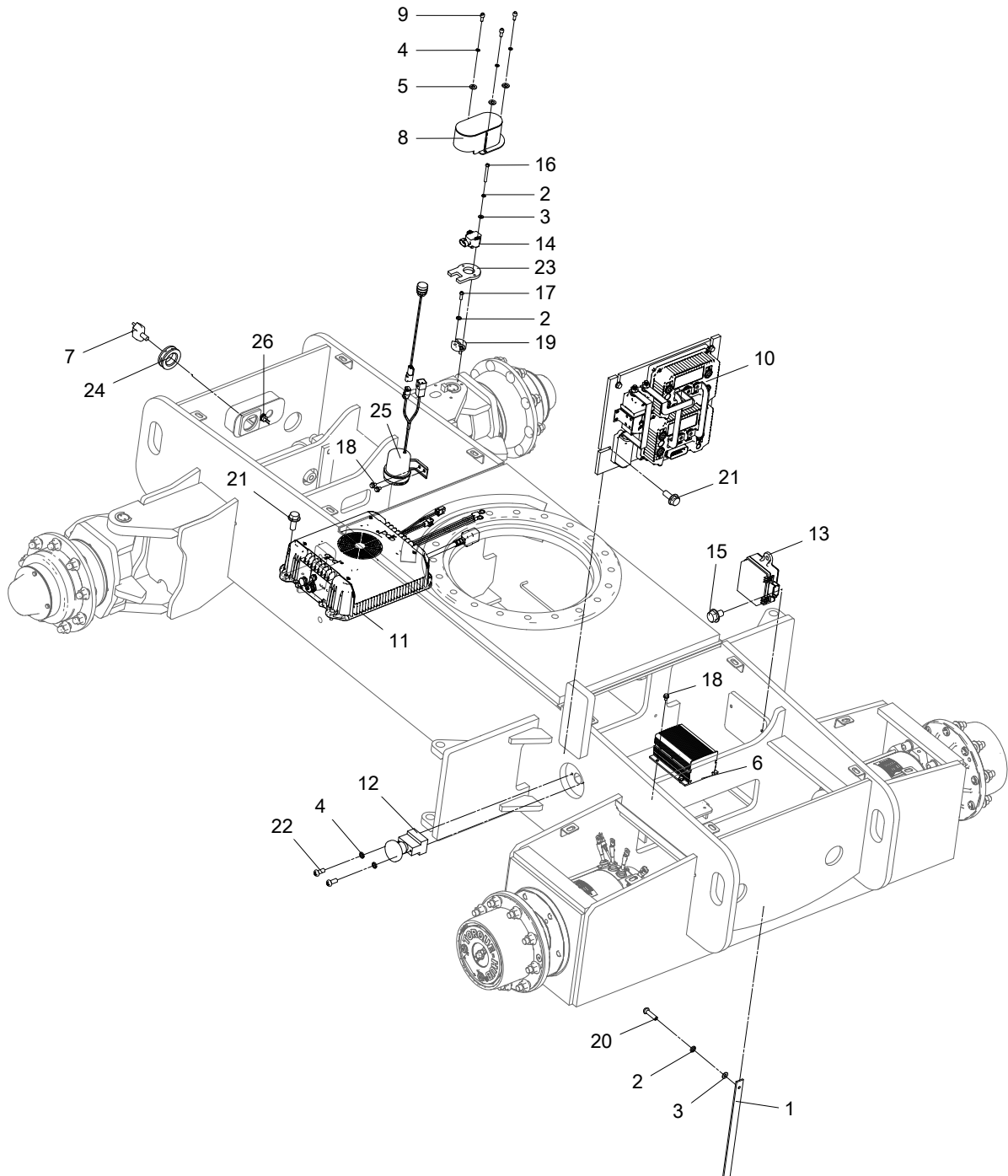
| No. | Part No.     | Qty. | Description |
|-----|--------------|------|-------------|
| 1   | 213010000007 | 8    | Fitting     |
| 2   | 213050000824 | 2    | Hose        |
| 3   | 213050003161 | 3    | Hose        |
| 4   | 213050003164 | 2    | Hose        |
| 5   | 213010000024 | 5    | Fitting     |
| 6   | 213050000725 | 1    | Hose        |
| 7   | 213050000817 | 1    | Hose        |
| 8   | 213050000820 | 1    | Hose        |
| 9   | 213050000829 | 1    | Hose        |
| 10  | 213010000146 | 2    | Fitting     |
| 11  | 213050003162 | 1    | Hose        |
| 12  | 213010000013 | 2    | Fitting     |
| 13  | 213010000006 | 6    | Fitting     |
| 14  | 213010000054 | 5    | Fitting     |
| 15  | 213050003250 | 2    | Hose        |
| 16  | 213050001328 | 2    | Hose        |
| 17  | 213050003003 | 2    | Hose        |
| 18  | 213050003166 | 1    | Hose        |
| 19  | 213010000026 | 2    | Fitting     |
| 20  | 213050003559 | 2    | Hose        |
| 21  | 213050003167 | 1    | Hose        |
| 22  | 213050003146 | 1    | Hose        |
| 23  | 213050000112 | 2    | Hose        |
| 24  | 213050003168 | 1    | Hose        |
| 25  | 213010000012 | 10   | Fitting     |
| 26  | 213010000009 | 10   | Fitting     |
| 27  | 213010000126 | 6    | Fitting     |

## 5.14 HYDRAULIC SCHEMATIC



## **6 ELECTRICAL SYSTEM**

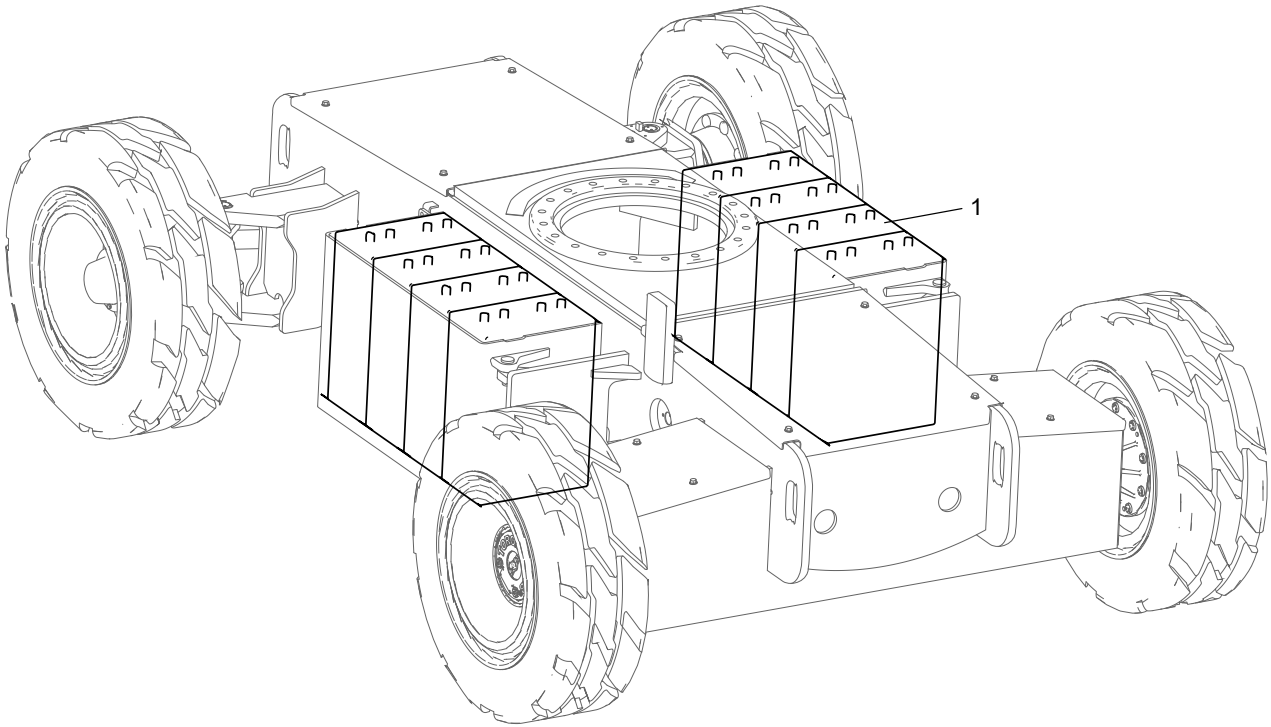
## 6.1 CHASSIS ELECTRICAL COMPONENTS INSTALLATION



| No.  | Part No.      | Qty. | Description                                                    |
|------|---------------|------|----------------------------------------------------------------|
| 1    | 203160000004  | 1    | Rubber strap, anti-static                                      |
| 2    | 215040000002  | 5    | Washer 4-A2-70 GB/T 93                                         |
| 3    | 2150400000031 | 3    | Washer 4-A2 GB/T 97.1                                          |
| 4    | 215040000003  | 5    | Washer 5-A2-70 GB/T 93                                         |
| 5    | 2150400000032 | 3    | Washer 5-A2 GB/T 97.1                                          |
| 6    | 203190003008  | 1    | DC/DC Converter                                                |
| 7    | 103008063052  |      | Charger cord and plug options                                  |
| 7-1  | 203080003098  | 1    | Charger cord and plug(Type B, America and South America specs) |
| 7-2  | 203080003097  | 1    | Charger cord and plug(Type M, Macao specs)                     |
| 7-3  | 203080003101  | 1    | Charger cord and plug(Type I, China and Australian specs)      |
| 7-4  | 203080003102  | 1    | Charger cord and plug(Type G, HongKong and Middle East specs)  |
| 7-5  | 203080003096  | 1    | Charger cord and plug(Type L, South America specs)             |
| 7-6  | 203080003099  | 1    | Charger cord and plug(Type E+F, European and Brazilian specs)  |
| 7-7  | 203080003100  | 1    | Charger cord and plug(Type J, Swiss specs)                     |
| 7-8  | 203080003534  | 1    | Charger cord and plug(United Kingdom specs)                    |
| 8    | 103002030026  | 1    | Guard                                                          |
| 9    | 215020000006  | 3    | Screw M5×12-A2-70 GB/T 70.1                                    |
| 10   | 203020003015  | 1    | Motor controller assembly                                      |
| 10a  | 203020000054  | 1    | Motor controller                                               |
| 10b  | 203040003023  | 1    | Contactator                                                    |
| 11   | 114002063049  | 1    | Charger option                                                 |
| 11-1 | 203100000069  | 1    | Charger(Lead-acid battery)                                     |
| 11-2 | 203100003072  | 1    | Charger(Lithium battery)                                       |
| 12   | 203060000024  | 1    | Power-off switch                                               |
| 13   | 203040003003  | 1    | Relay box                                                      |
| 14   | 103007063015  |      | Relative Angle Sensor Option                                   |
| 14-1 | 203150000046  | 1    | Angle sensor                                                   |
| 14-2 | 203150003049  | 1    | angle sensor                                                   |
| 15   | 215010000233  | 2    | Bolt M8×12-8.8-ZnD GB/T 5789                                   |
| 16   | 215020000212  | 2    | Screw M4×35-A2-70 GB/T 818                                     |
| 17   | 215020000105  | 2    | Screw M4×12-A2-70 GB/T 818                                     |
| 18   | 215010000229  | 6    | Bolt M6×10-8.8-ZnD GB/T 5789                                   |
| 19   | 101016010062  | 1    | Flange                                                         |
| 20   | 215020000106  | 1    | Screw M4×16-A2-70 GB/T 818                                     |
| 21   | 215010000234  | 8    | Bolt M8×20-8.8-ZnD GB/T 5789                                   |
| 22   | 215020000110  | 2    | Screw M5×12-A2-70 GB/T 818                                     |
| 23   | 103003030108  | 1    | Plate                                                          |

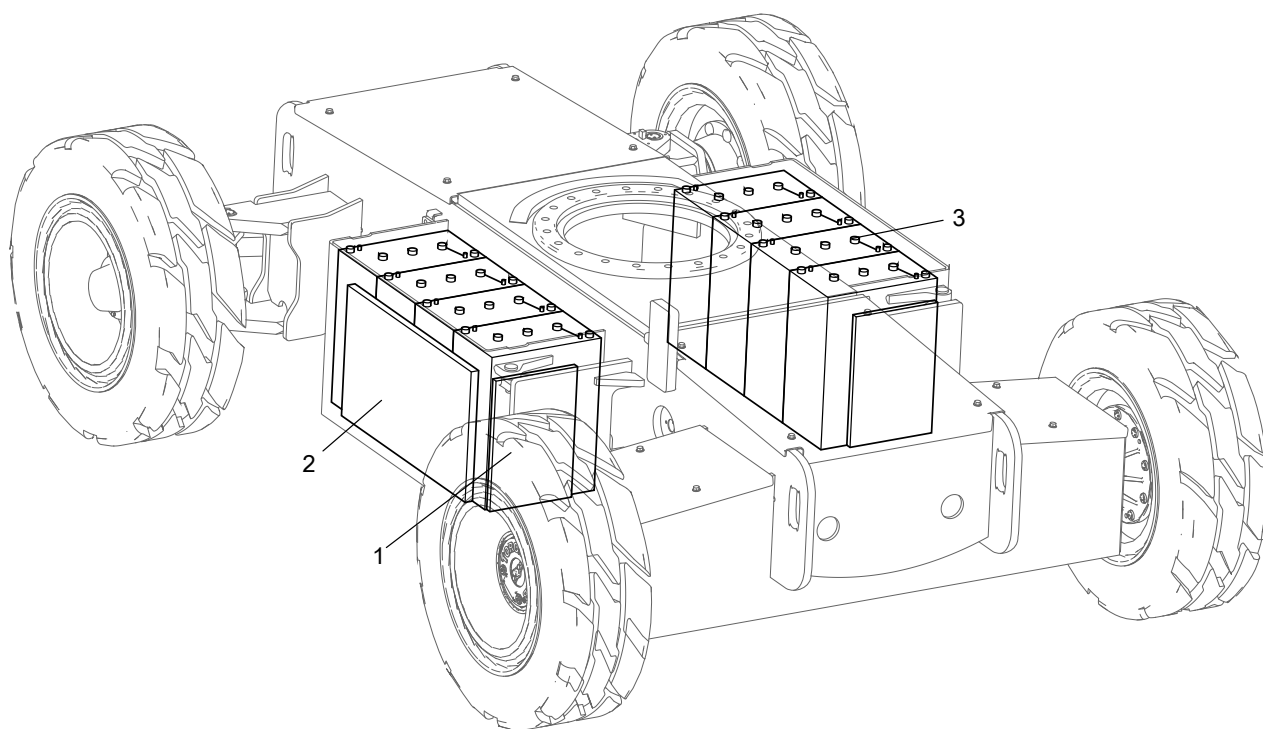
| No.  | Part No.     | Qty. | Description                                       |
|------|--------------|------|---------------------------------------------------|
| 24   | 101032030115 | 1    | Rubber grommet                                    |
| 25   | 114002063050 | 1    | Charger voice horn optional                       |
| 25-1 | 203050003042 | 1    | Voice Horn(used when lithium battery is equipped) |
| 26   | 114002063052 | 1    | Power switching button optional                   |
| 26-1 | 203060003069 | 1    | Button(used when lithium battery is equipped)     |

## 6.2 BATTERIES INSTALLATION (LEAD-ACID BATTERY)



| No. | Part No.     | Qty. | Description                 |
|-----|--------------|------|-----------------------------|
| 0   | 103007033006 | 1    | Drive System                |
| 0   | 103007033004 | 1    | Front Wheel Installation    |
| 0   | 103006030056 | 1    | Battery Holder Installation |
| 0   | 103007033007 | 1    | Chassis Shield Installation |
| 0   | 103007033003 | 1    | Steer System                |
| 1   | 203100000027 | 8    | Lead acid battery           |

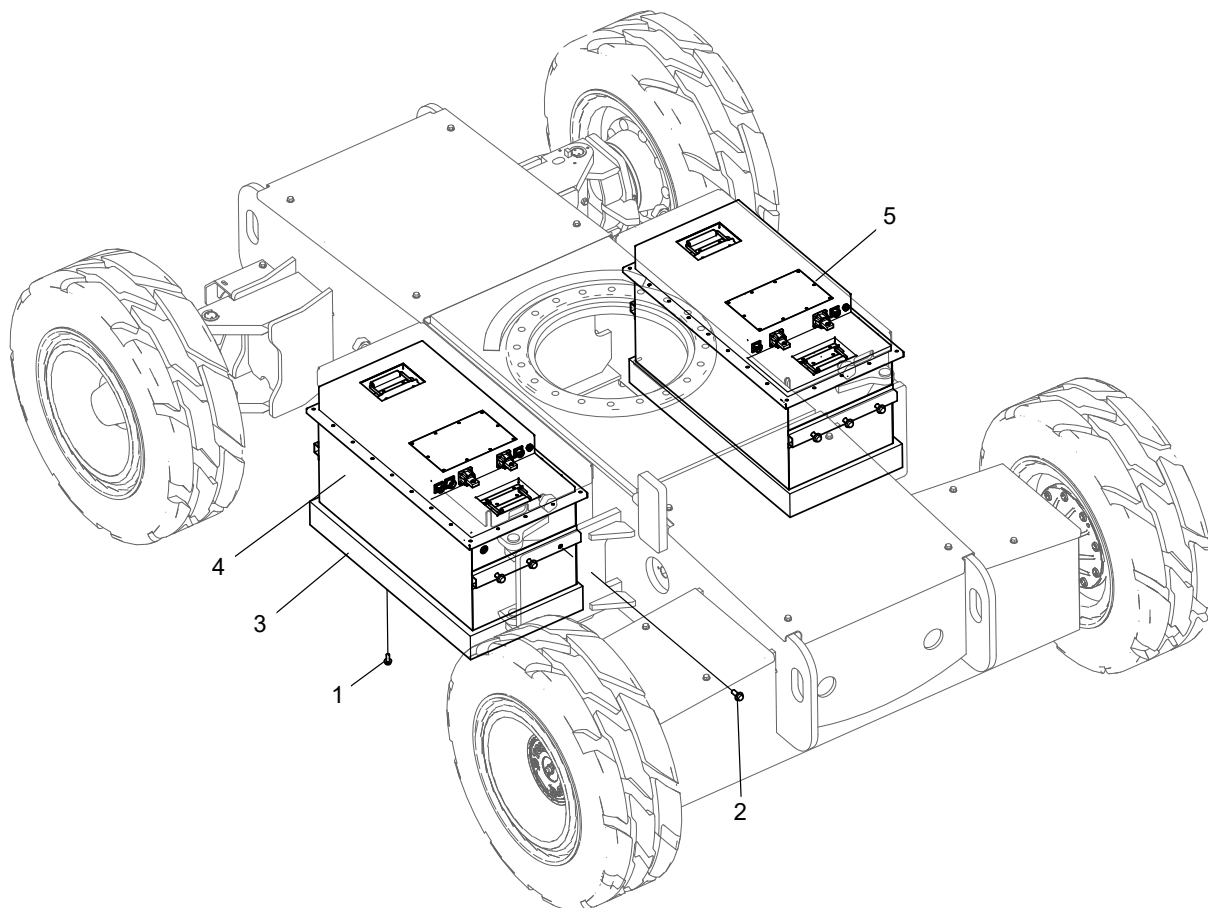
## 6.3 BATTERIES INSTALLATION (LEAD-ACID BATTERY, MAINTENANCE-FREE)



| No. | Part No.     | Qty. | Description                         |
|-----|--------------|------|-------------------------------------|
| 0   | 103007033004 | 1    | Front Wheel Installation            |
| 0   | 103006030056 | 1    | Battery Holder Installation         |
| 0   | 103007033003 | 1    | Steer System                        |
| 0   | 103007033007 | 1    | Chassis Shield Installation         |
| 0   | 103007033006 | 1    | Drive System                        |
| 1   | 103006033017 | 2    | Support plate                       |
| 2   | 103006033016 | 2    | Support plate                       |
| 3   | 203100003000 | 8    | Lead acid battery, maintenance-free |

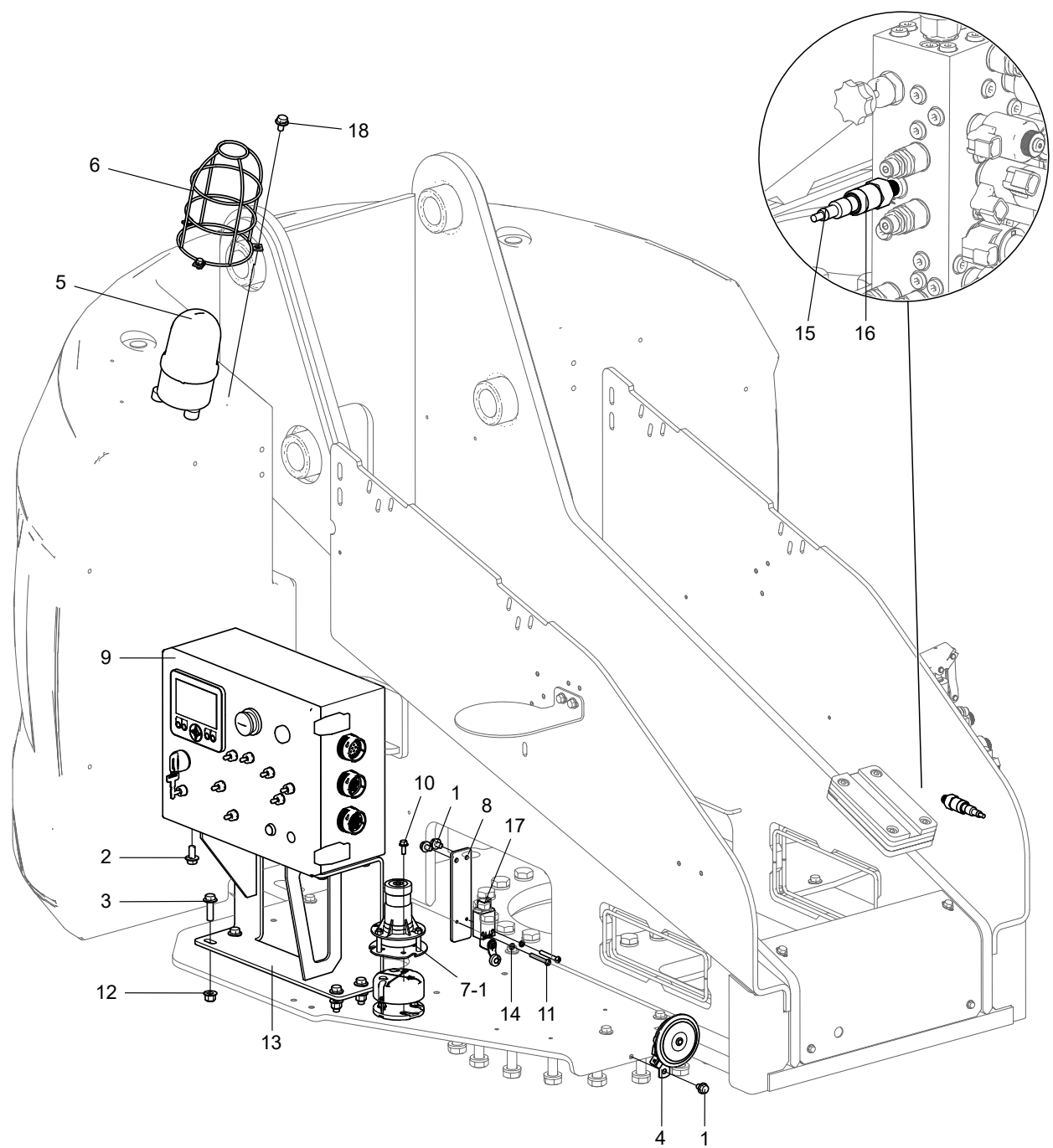


## 6.4 BATTERIES INSTALLATION (LITHIUM BATTERY)



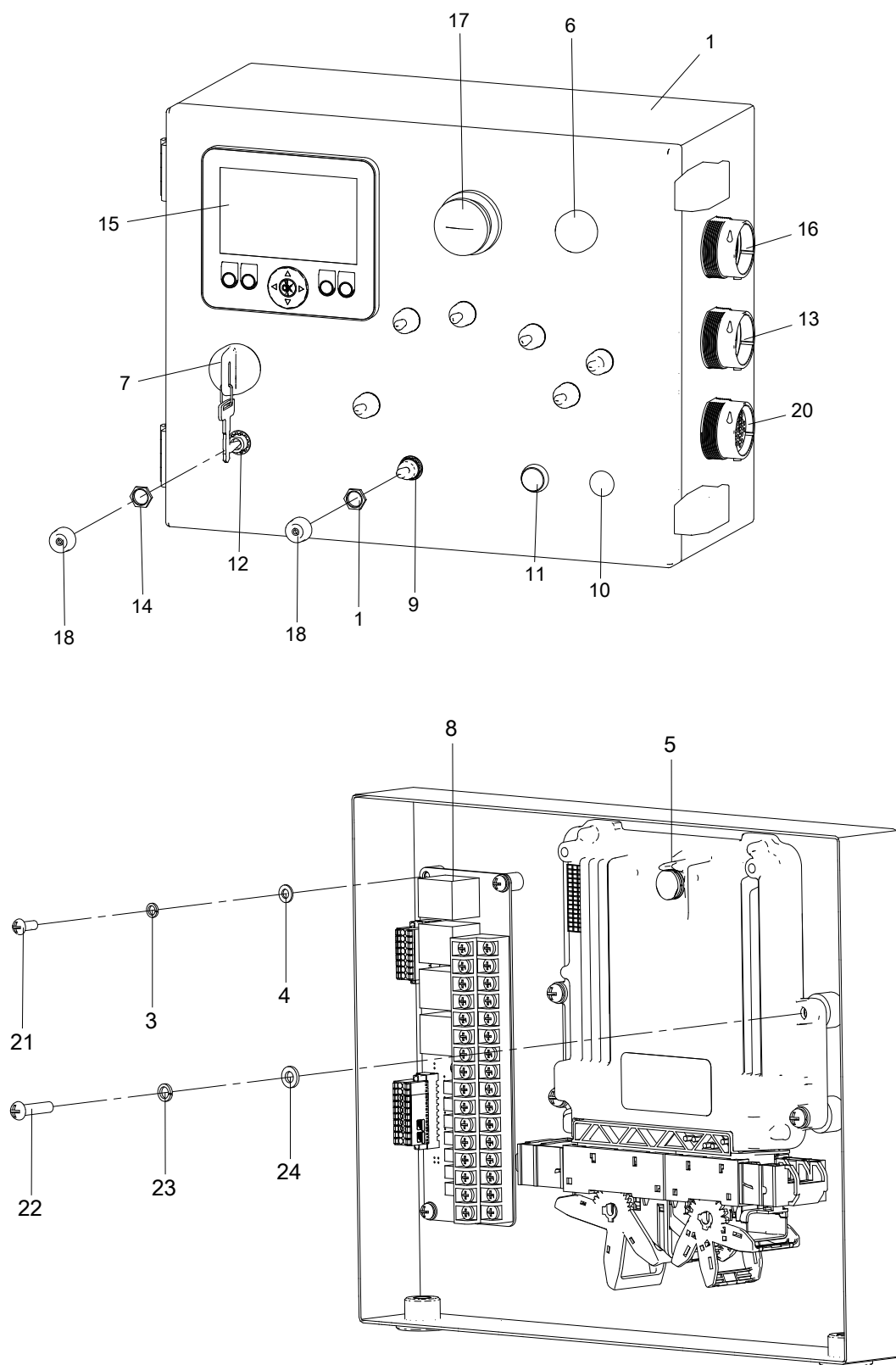
| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 215010000234 | 8    | Bolt M8×20-8.8-ZnD GB/T 5789   |
| 2   | 215010000238 | 12   | Bolt M10×25-8.8-ZnD GB/T 5789  |
| 3   | 103006033023 | 2    | Counterweight                  |
| 4   | 203100003024 | 1    | Lithium battery, main box      |
| 5   | 203100003025 | 1    | Lithium battery, secondary box |

6.5 TURNTABLE ELECTRICAL COMPONENTS INSTALLATION



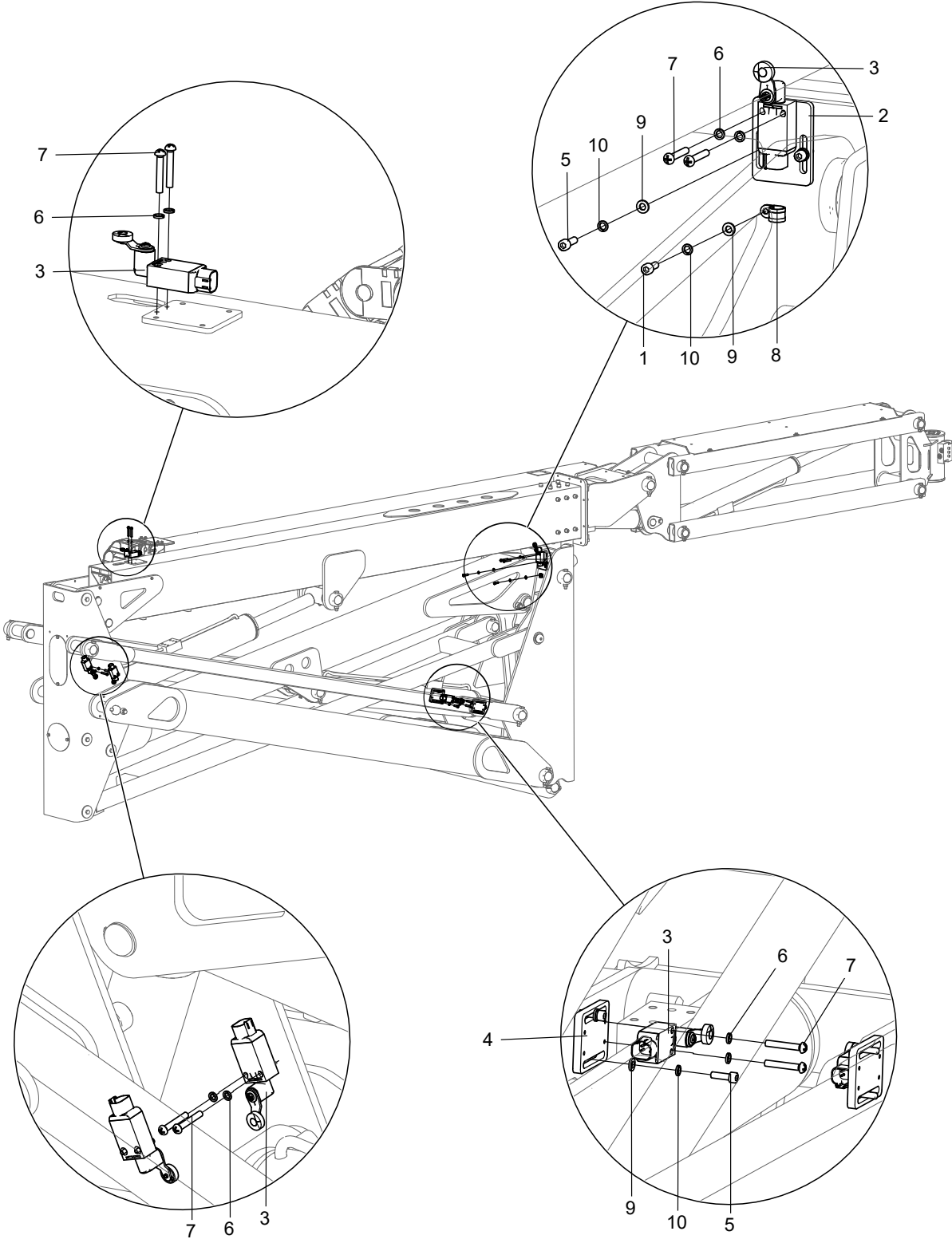
| No. | Part No.     | Qty. | Description                                                               |
|-----|--------------|------|---------------------------------------------------------------------------|
| 1   | 215010000233 | 3    | Bolt M8×12-8.8-ZnD GB/T 5789                                              |
| 2   | 215010000237 | 4    | Bolt M10×20-8.8-ZnD GB/T 5789                                             |
| 3   | 215010000248 | 4    | Bolt M10x35-8.8 ZnD GB/T 5789                                             |
| 4   | 203050000034 | 1    | Horn                                                                      |
| 5   | 203050003017 | 1    | Beacon light                                                              |
| 6   | 105021060024 | 1    | Guard, beacon light                                                       |
| 7   | 103008063058 |      | Options, Level sensor installation                                        |
| 7-1 | 203150000039 | 1    | Level sensor                                                              |
| 7-2 | 203060000111 | 1    | Level sensor                                                              |
| 8   | 103004060001 | 1    | Bracket                                                                   |
| 9   | 103006063022 | 1    | Ground controller assembly(See GROUND CONTROL BOX ASSEMBLY for breakdown) |
| 10  | 215010000230 | 3    | Bolt M6×16-8.8-ZnD GB/T 5789                                              |
| 11  | 215020000211 | 2    | Screw M4×30-A2-70 GB/T 818                                                |
| 12  | 215030000109 | 4    | Nut M10-8-ZnD GB/T 6183                                                   |
| 13  | 103005060026 | 1    | Bracket, electrical controller                                            |
| 14  | 215040000002 | 2    | Washer 4-A2-70 GB/T 93                                                    |
| 15  | 203080003094 | 1    | Plug, with cable                                                          |
| 16  | 203150000055 | 1    | Pressure sensor                                                           |
| 17  | 203060000146 | 1    | Travel switch                                                             |
| 18  | 215010000229 | 3    | Bolt M6×10-8.8-ZnD GB/T 5789                                              |

## 6.6 GROUND CONTROL BOX ASSEMBLY (PN.103006063022)



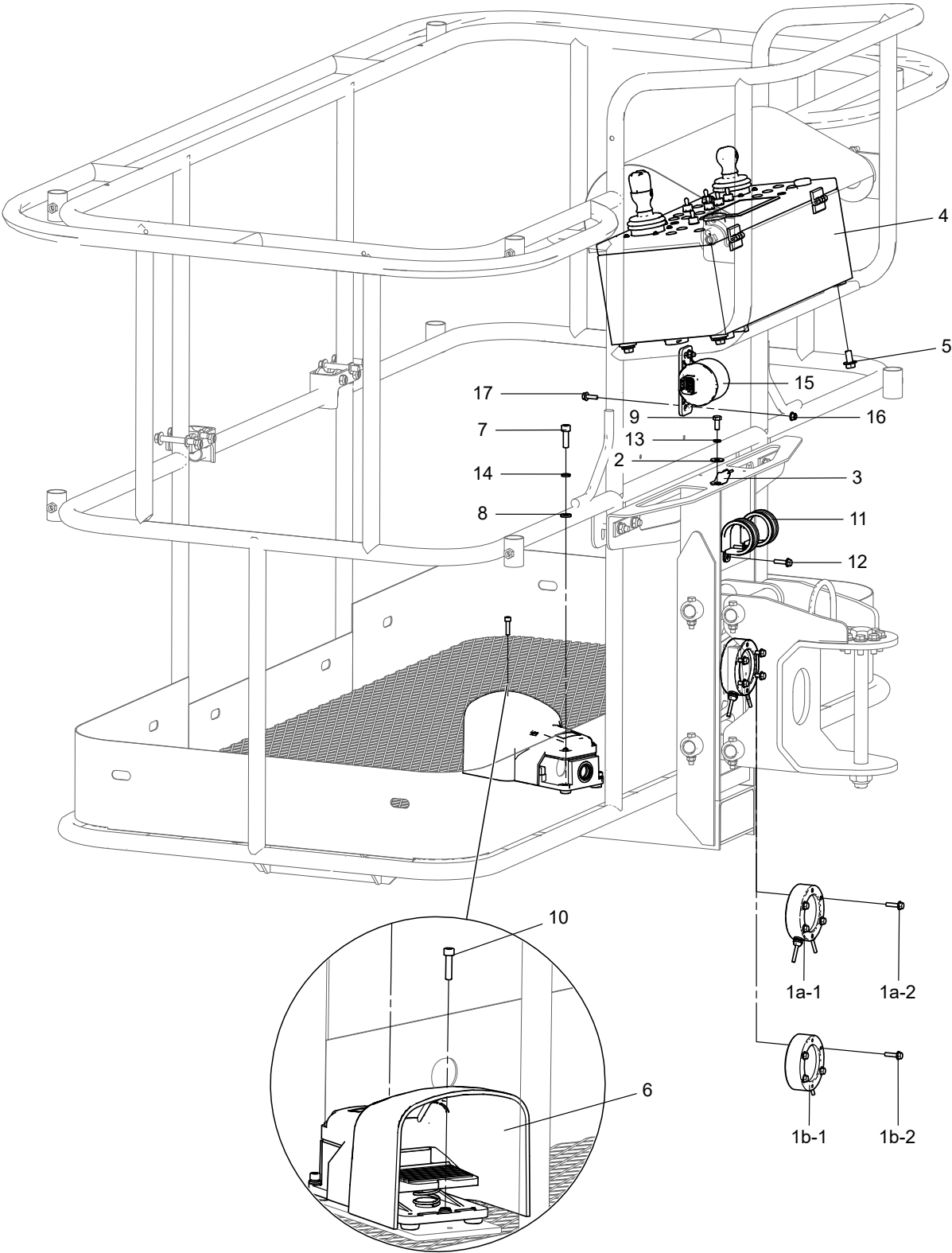
| No. | Part No.     | Qty. | Description                                 |
|-----|--------------|------|---------------------------------------------|
| 1   | 103006063003 | 1    | Ground controller                           |
| 2   | 103006063006 | 1    | Screen label, ground control box(Not shown) |
| 3   | 215040000003 | 5    | Washer 5-A2-70 GB/T 93                      |
| 4   | 215040000032 | 5    | Washer 5-A2 GB/T 97.1                       |
| 5   | 203020000038 | 1    | Controller                                  |
| 6   | 203050003021 | 1    | Buzzer                                      |
| 7   | 203060000066 | 1    | Key switch                                  |
| 8   | 203030000015 | 1    | Integrated board, relay                     |
| 9   | 203060000003 | 7    | Switch, toggle                              |
| 10  | 105045060004 | 1    | Plug, controller                            |
| 11  | 203060000020 | 1    | Button, yellow                              |
| 12  | 203060000021 | 1    | Switch, toggle                              |
| 13  | 203080000523 | 1    | Connector, 31P, male                        |
| 14  | 203080000109 | 8    | Nut                                         |
| 15  | 203200003001 | 1    | Display screen                              |
| 16  | 203080000518 | 1    | Connector, 21-pin, male                     |
| 17  | 203060000142 | 1    | Emergency stop switch                       |
| 18  | 203080000101 | 8    | Cap, waterproof                             |
| 19  | 203080000378 | 1    | Connector(Not shown)                        |
| 20  | 203080000516 | 1    | Connector, 31P, female                      |
| 21  | 215020000110 | 5    | Screw M5×12-A2-70 GB/T 818                  |
| 22  | 215020000118 | 4    | Screw M6×25-A2-70 GB/T 818                  |
| 23  | 215040000004 | 4    | Washer 6-A2-70 GB/T 93                      |
| 24  | 215040000033 | 4    | Washer 6-A2 GB/T 97.1                       |
| 25  | 103006063023 | 1    | PC film, ground controller(Not shown)       |

6.7 BOOM ELECTRICAL COMPONENTS INSTALLATION



| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 1   | 215020000011 | 1    | Screw M6×16-A2-70 GB/T 70.1   |
| 2   | 103006063016 | 1    | Mounting plate, travel switch |
| 3   | 203060000146 | 6    | Travel switch                 |
| 4   | 104009060027 | 2    | Mounting plate, travel switch |
| 5   | 215020000012 | 6    | Screw M6×20-A2-70 GB/T 70.1   |
| 6   | 215040000002 | 12   | Washer 4-A2-70 GB/T 93        |
| 7   | 215020000108 | 12   | Screw M4×25-A2-70 GB/T 818    |
| 8   | 216020000023 | 1    | Retaining ring, SSG           |
| 9   | 215040000033 | 7    | Washer 6-A2 GB/T 97.1         |
| 10  | 215040000004 | 7    | Washer 6-A2-70 GB/T 93        |

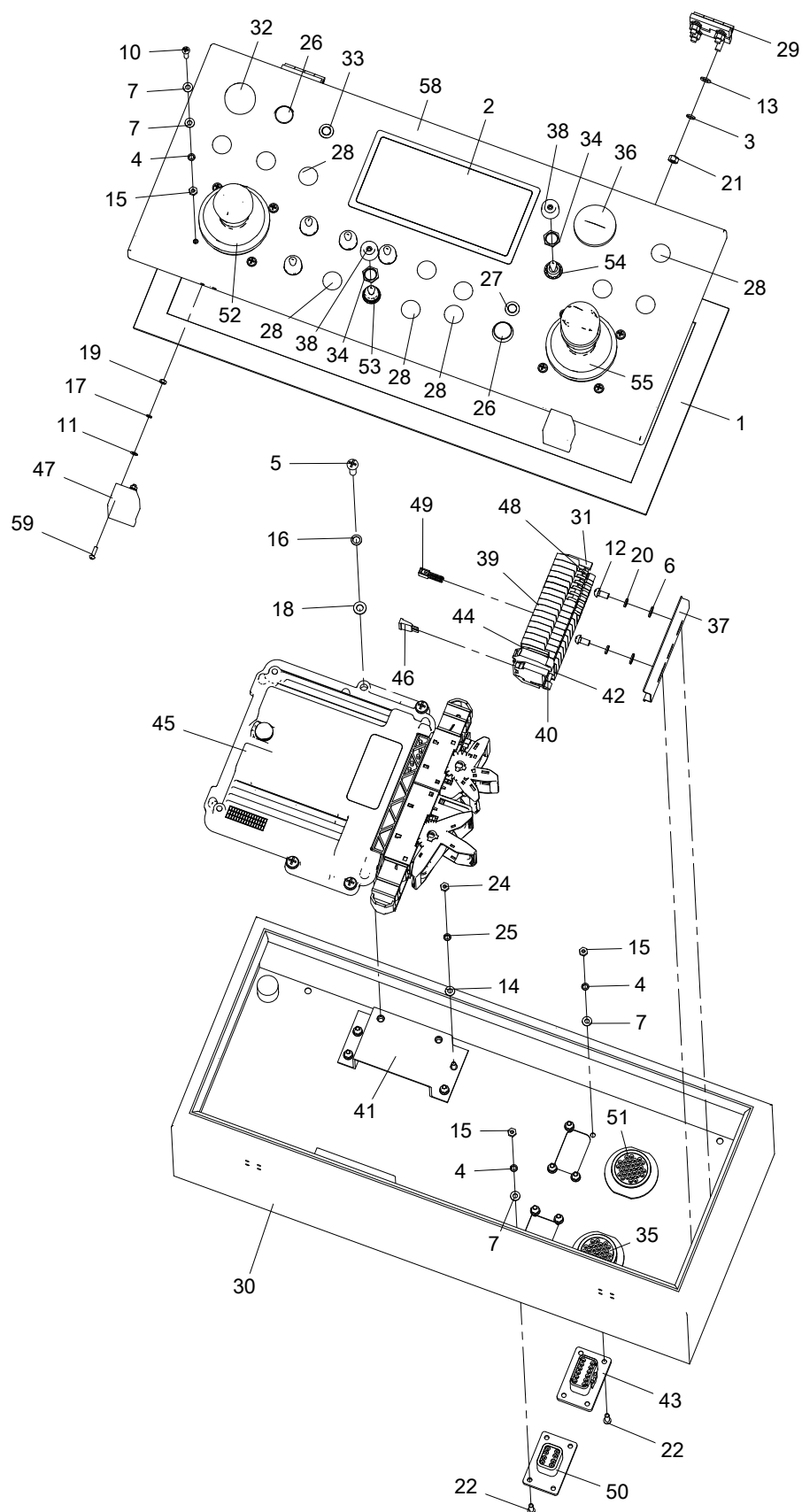
6.8 PLATFORM ELECTRICAL COMPONENTS INSTALLATION





| No.  | Part No.     | Qty. | Description                                                                   |
|------|--------------|------|-------------------------------------------------------------------------------|
| 1    | 103006060034 |      | Load sensor options                                                           |
| 1a   | 103006060026 | 1    | Load sensor, dual-channel                                                     |
| 1a-1 | 203150000070 | 1    | Load sensor                                                                   |
| 1a-2 | 215010000232 | 4    | Bolt M6×25-8.8-ZnD GB/T 5789                                                  |
| 1b   | 103006060029 | 1    | Load sensor                                                                   |
| 1b-1 | 203150000069 | 1    | Load sensor                                                                   |
| 1b-2 | 215010000232 | 4    | Bolt M6×25-8.8-ZnD GB/T 5789                                                  |
| 2    | 215040000132 | 1    | Washer 5-200HV-A2 GT/B 96.1                                                   |
| 3    | 203080000525 | 1    | Fixture                                                                       |
| 4    | 103006063033 | 1    | Platform controller assembly(See PLATFORM CONTROL BOX ASSEMBLY for breakdown) |
| 5    | 215010000237 | 4    | Bolt M10×20-8.8-ZnD GB/T 5789                                                 |
| 6    | 203060000009 | 1    | Footswitch                                                                    |
| 7    | 215020000012 | 2    | Screw M6×20-A2-70 GB/T 70.1                                                   |
| 8    | 215040000033 | 3    | Washer 6-A2 GB/T 97.1                                                         |
| 9    | 215010000041 | 1    | Bolt M5×12-A2-70 GB/T 5783                                                    |
| 10   | 215020000013 | 1    | Screw M6×25-A2-70 GB/T 70.1                                                   |
| 11   | 216020000025 | 2    | Retaning ring, SSG                                                            |
| 12   | 215010000232 | 2    | Bolt M6×25-8.8-ZnD GB/T 5789                                                  |
| 13   | 215040000003 | 1    | Washer 5-A2-70 GB/T 93                                                        |
| 14   | 215040000004 | 3    | Washer 6-A2-70 GB/T 93                                                        |
| 15   | 203050003040 | 1    | Voice Horn                                                                    |
| 16   | 215030000107 | 2    | Nut M6-8-ZnD GB/T 6183                                                        |
| 17   | 215010000231 | 2    | Bolt M6×20-8.8-ZnD GB/T 5789                                                  |

## 6.9 PLATFORM CONTROL BOX ASSEMBLY (PN.103006063033)

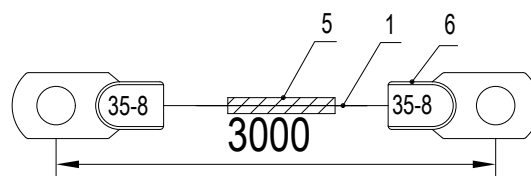


| No. | Part No.     | Qty. | Description                   |
|-----|--------------|------|-------------------------------|
| 1   | 105001060039 | 1    | Seal gasket                   |
| 2   | 203200003002 | 1    | Gauge                         |
| 3   | 215040000003 | 8    | Washer 5-A2-70 GB/T 93        |
| 4   | 215040000002 | 16   | Washer 4-A2-70 GB/T 93        |
| 5   | 215020000118 | 4    | Screw M6×25-A2-70 GB/T 818    |
| 6   | 215040000032 | 2    | Washer 5-A2 GB/T 97.1         |
| 7   | 215040000031 | 24   | Washer 4-A2 GB/T 97.1         |
| 10  | 215020000107 | 8    | Screw M4×20-A2-70 GB/T 818    |
| 11  | 215040000030 | 12   | Washer 3-A2 GB/T 97.1         |
| 12  | 215020000109 | 2    | Screw M5×10-A2-70 GB/T 818    |
| 13  | 215040000032 | 8    | Washer 5-A2 GB/T 97.1         |
| 14  | 215040000031 | 8    | Washer 4-A2 GB/T 97.1         |
| 15  | 215030000002 | 16   | Nut M4-8-A2-70 GB/T 6170      |
| 16  | 215040000004 | 4    | Washer 6-A2-70 GB/T 93        |
| 17  | 215040000001 | 12   | Washer 3-A2-70 GB/T 93        |
| 18  | 215040000033 | 4    | Washer 6-A2 GB/T 97.1         |
| 19  | 215030000001 | 12   | Nut M3-A2-70 GB/T 6170        |
| 20  | 215040000003 | 2    | Washer 5-A2-70 GB/T 93        |
| 21  | 215030000003 | 8    | Nut M5-A2-70 GB/T 6170        |
| 22  | 215020000106 | 8    | Screw M4×16-A2-70 GB/T 818    |
| 24  | 215030000002 | 8    | Nut M4-8-A2-70 GB/T 6170      |
| 25  | 215040000002 | 8    | Washer 4-A2-70 GB/T 93        |
| 26  | 203060000020 | 2    | Button, yellow                |
| 27  | 203050003015 | 1    | Indicator light               |
| 28  | 105045060004 | 11   | Plug, controller              |
| 29  | 209050000022 | 2    | Hinge                         |
| 30  | 103006060002 | 1    | Pedestal, platform controller |
| 31  | 203080003053 | 2    | Terminal block end plate      |
| 32  | 203050003021 | 1    | Buzzer                        |
| 33  | 203050003014 | 1    | Indicator light               |
| 34  | 203080000109 | 6    | Nut                           |
| 35  | 203080000523 | 1    | Connector, 31P, male          |
| 36  | 203060000142 | 1    | Emergency stop switch         |
| 37  | 203990000001 | 1    | Guiderail                     |
| 38  | 203080000101 | 6    | Cap, waterproof               |
| 39  | 203080003051 | 12   | Terminal                      |
| 40  | 203080003057 | 1    | Terminal                      |
| 41  | 103006060005 | 2    | Bracket                       |

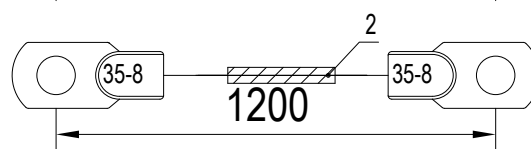
| No. | Part No.     | Qty. | Description                              |
|-----|--------------|------|------------------------------------------|
| 42  | 203080003059 | 1    | End plate                                |
| 43  | 203060000090 | 1    | Connector, 12p, with flange              |
| 44  | 203080003052 | 1    | End plate                                |
| 45  | 203020000038 | 1    | Controller                               |
| 46  | 203070000053 | 1    | Fuse                                     |
| 47  | 203060000025 | 2    | Lock catch                               |
| 48  | 203080003054 | 6    | Terminal, GND                            |
| 49  | 203080003058 | 3    | Jumper                                   |
| 50  | 203060000088 | 1    | Connector, 8p, with flange               |
| 51  | 203080000516 | 1    | Connector, 31P, female                   |
| 52  | 203060003084 | 1    | Joystick                                 |
| 53  | 203060000003 | 5    | Switch, toggle                           |
| 54  | 203060000021 | 1    | Switch, toggle                           |
| 55  | 203060003081 | 1    | Joystick                                 |
| 56  | 103006063028 | 1    | PC film, platform controller(Not Shown)  |
| 57  | 103006063027 | 1    | Platform Control Box Assembly(Not Shown) |
| 58  | 103006063030 | 1    | Platform control panel                   |
| 59  | 215020000100 | 12   | Screw M3×10-A2-70 GB/T 818               |

## 6.10 POWER CABLE KIT(LEAD-ACID BATTERY)

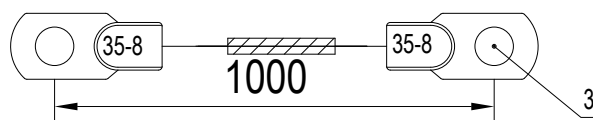
Left BAT- -- Right BAT+(Red)



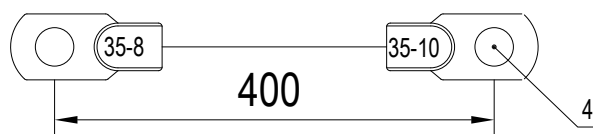
Right BAT- -- Drive Controller B-(Black)



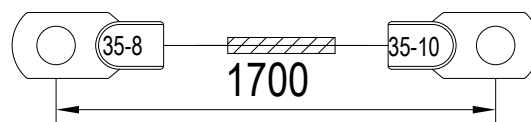
Left BAT+ -- Manual Switch(Red)



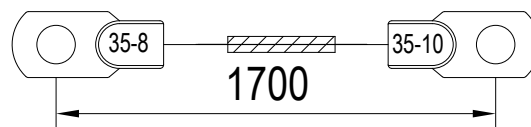
Manual Switch -- Fuse FU1(Red)



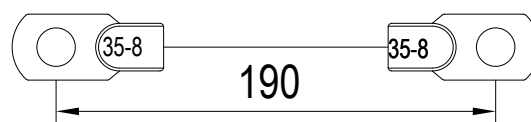
Left Drive Controller P- -- Lifting Motor(Black)



Left Drive Controller B+ -- Lifting Motor(Red)



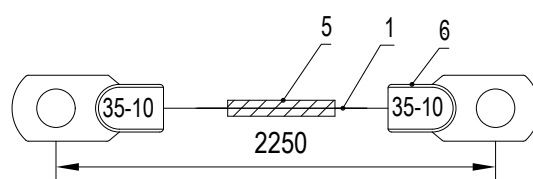
Battery Cable(6,Red)



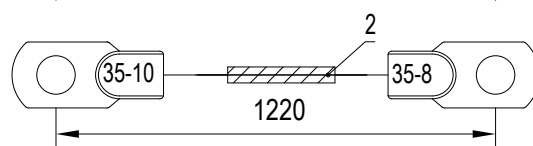
| No. | Part No.     | Qty. | Description            |
|-----|--------------|------|------------------------|
| 1   | 203080000579 | 7    | Cable (red)            |
| 2   | 203080000580 | 3    | Cable (black)          |
| 3   | 203080000038 | 22   | Cable lug, copper      |
| 4   | 203080000045 | 4    | Cable lug, copper      |
| 5   | 203080000422 | 9    | Nylon hose, closed-end |
| 6   | 203080000004 | 24   | Connector, PVC         |

## 6.11 POWER CABLE KIT(LITHIUM BATTERY)

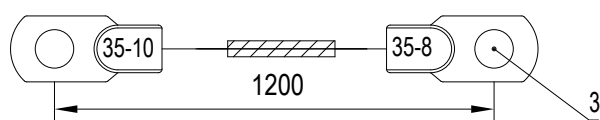
Left BAT- -- Right BAT+(Red)



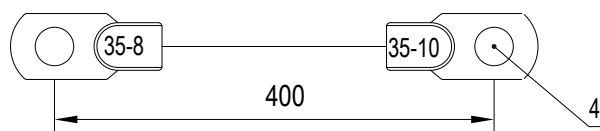
Right BAT- -- Drive Controller B-(Black)



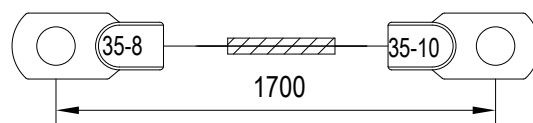
Left BAT+ -- Manual Switch(Red)



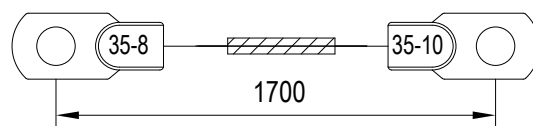
Manual Switch -- Fuse FU1(Red)



Left Drive Controller P- -- Lifting Motor(Black)



Left Drive Controller B+ -- Lifting Motor(Red)



| No. | Part No.     | Qty. | Description            |
|-----|--------------|------|------------------------|
| 1   | 203080000579 | 6    | Cable (red)            |
| 2   | 203080000580 | 3    | Cable (black)          |
| 3   | 203080000038 | 5    | Cable lug, copper      |
| 4   | 203080000045 | 7    | Cable lug, copper      |
| 5   | 203080000422 | 7    | Nylon hose, closed-end |
| 6   | 203080000004 | 12   | Connector, PVC         |

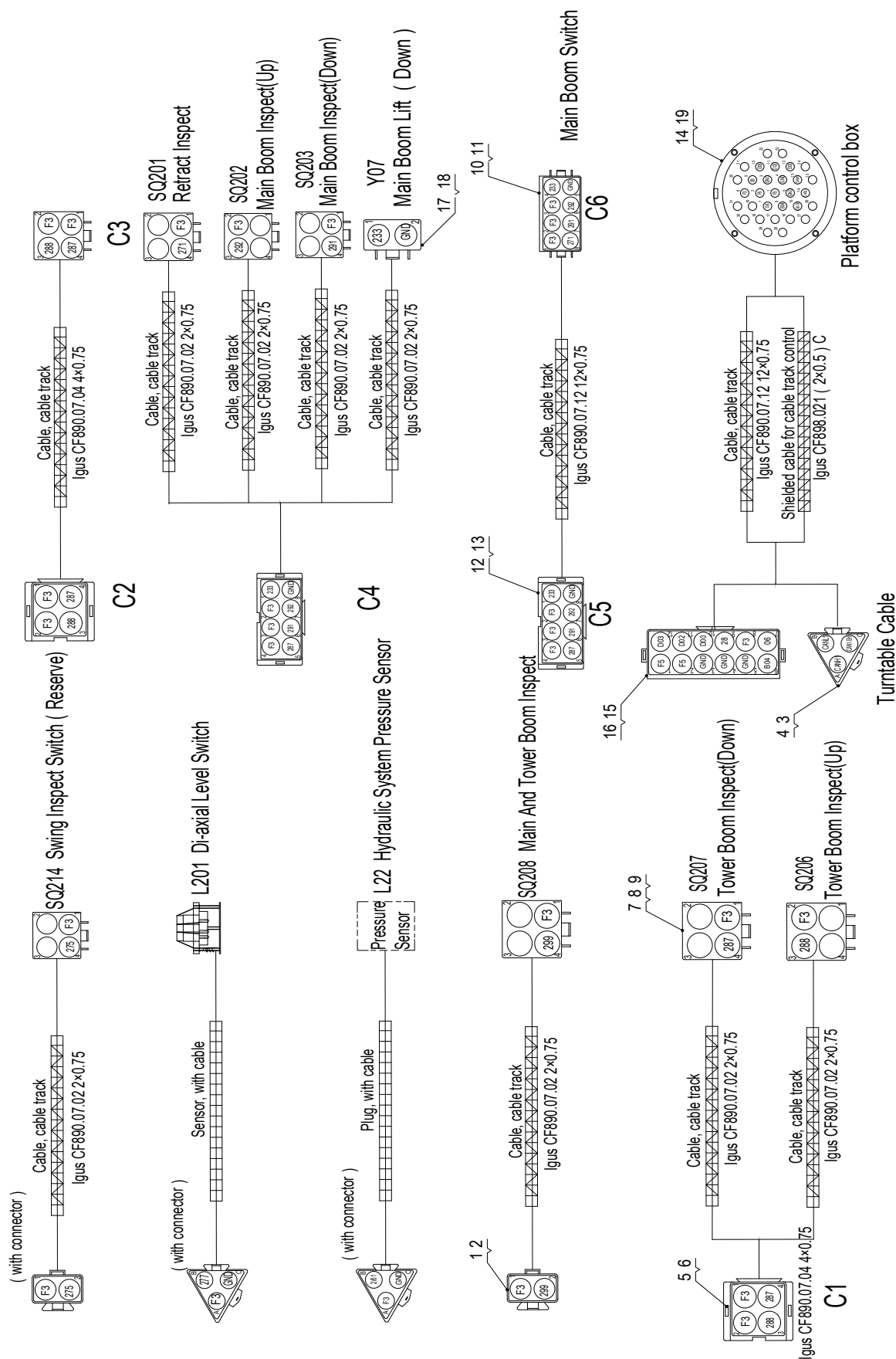


[illegible]

| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 203080000515 | 1    | Connector, 31P, male           |
| 2   | 203060000096 | 3    | End clip, 180 deg.             |
| 3   | 203080000033 | 24   | Terminal, male                 |
| 4   | 203080000520 | 1    | Connector, 31P, female         |
| 5   | 203080000041 | 125  | Terminal, female               |
| 6   | 203080000068 | 31   | Blind plug                     |
| 7   | 203080000517 | 1    | Connector, 21-pin, female      |
| 8   | 203060000097 | 4    | Terminal, #12, female          |
| 9   | 203080000404 | 4    | Sheath                         |
| 10  | 203080000032 | 4    | Lock                           |
| 11  | 203080000508 | 4    | End clip                       |
| 12  | 203080000410 | 21   | Sheath                         |
| 13  | 203080000016 | 21   | Lock                           |
| 14  | 203080000437 | 21   | End attachments, 2-pin, female |
| 15  | 203080000448 | 21   | Rubber, 2-pin                  |
| 16  | 203080000044 | 3    | Sheath                         |
| 17  | 203080000020 | 3    | Lock                           |
| 18  | 203080000445 | 3    | End attachments, 4-pin, female |
| 19  | 203080000446 | 3    | Rubber, 4-pin                  |
| 20  | 203080000492 | 2    | Cover, waterproof              |
| 21  | 203080000427 | 1    | Sheath                         |
| 22  | 203080000428 | 2    | Pin, female                    |
| 23  | 203080000429 | 1    | Cap, waterproof                |
| 24  | 203080000414 | 2    | Sheath                         |
| 25  | 203080000159 | 2    | Lock                           |
| 26  | 203080000424 | 5    | Nylon hose, closed-end         |
| 27  | 203080000422 | 4    | Nylon hose, closed-end         |
| 28  | 203080000037 | 2    | Corrugated pipe                |
| 29  | 203080000135 | 1    | Corrugated pipe (Black)        |
| 30  | 203080000417 | 1    | Nylon hose, closed-end         |
| 31  | 203080000262 | 3    | AMP Terminal                   |
| 32  | 203080000314 | 1    | Lock                           |
| 33  | 203080000315 | 1    | Sheath                         |
| 34  | 203080000030 | 3    | Heat shrink tube               |
| 35  | 203080000291 | 2    | Sheath                         |
| 36  | 203080000297 | 2    | Seal ring                      |
| 37  | 203080000292 | 2    | Sheath                         |

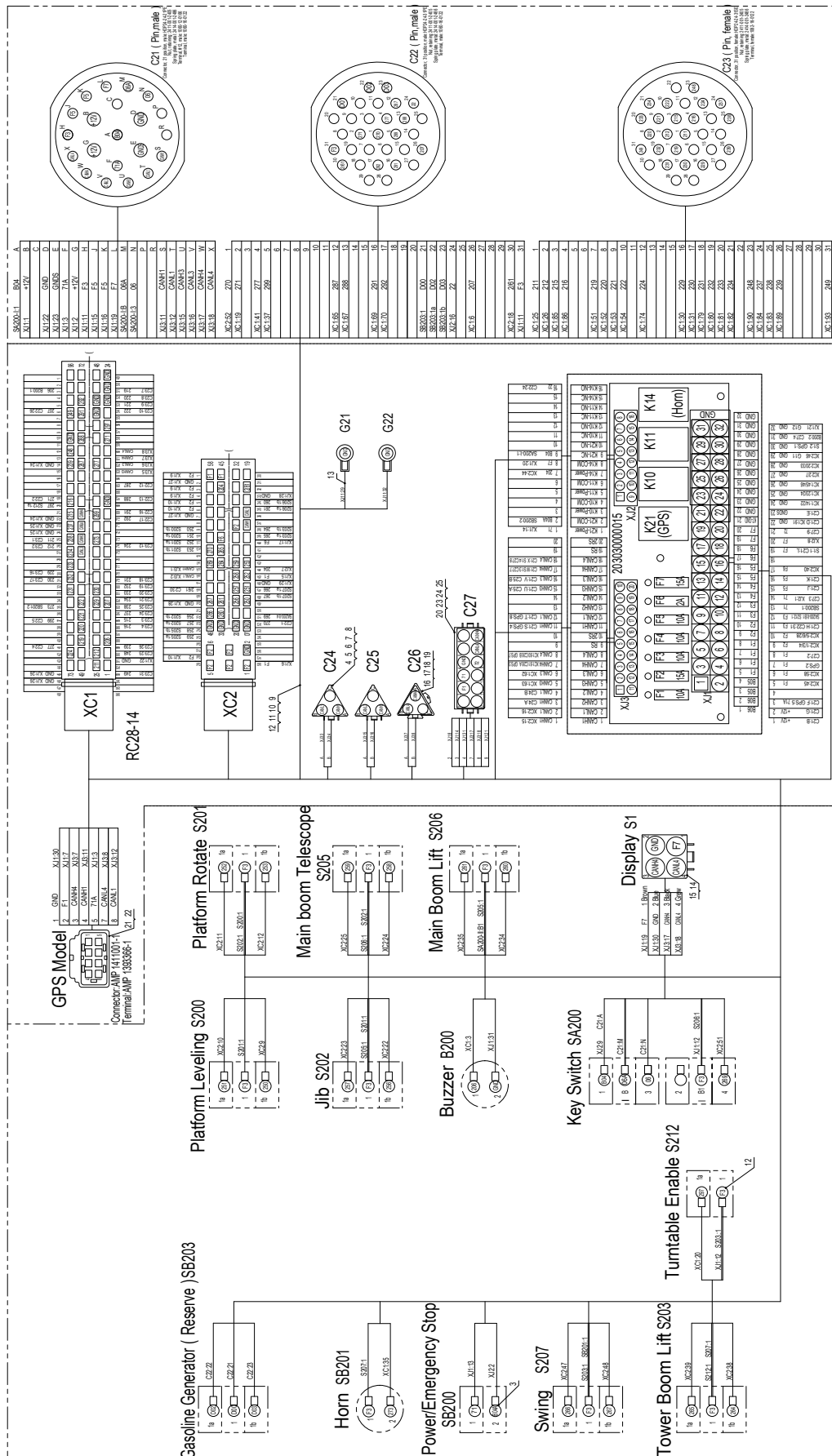
| No. | Part No.     | Qty. | Description               |
|-----|--------------|------|---------------------------|
| 38  | 203080000298 | 12   | Terminal                  |
| 39  | 203080000287 | 2    | Seal ring                 |
| 40  | 203080000047 | 3    | Cable                     |
| 41  | 203080000196 | 4    | Cable                     |
| 42  | 203080000018 | 3    | Terminal, blade-hole type |
| 43  | 203080000406 | 1    | Sheath                    |
| 44  | 203080000112 | 1    | Lock                      |
| 45  | 203080000405 | 1    | Sheath                    |
| 46  | 203080000046 | 1    | Lock                      |
| 47  | 203080000466 | 1    | End clip                  |
| 48  | 203080000086 | 1    | Sheath                    |
| 49  | 203080000564 | 120  | Cable, thin wall (white)  |
| 50  | 203080000563 | 40   | Cable, thin wall (black)  |
| 51  | 203080000562 | 20   | Cable, thin wall (red)    |
| 52  | 203080000129 | 2    | Jacket, flexible          |
| 53  | 203080000197 | 2    | Terminal                  |
| 54  | 203080003017 | 2    | Sheath                    |
| 55  | 203080003021 | 28   | Terminal, 35P, AMP        |
| 56  | 203080000295 | 47   | Plastic plug              |
| 57  | 203080000133 | 2    | Terminal, blade-hole type |
| 58  | 203080003013 | 2    | Terminal, female          |
| 59  | 203080003019 | 2    | Sheath                    |
| 60  | 203080003024 | 2    | Lock                      |

## 6.13 TURNTABLE SENSORS HARNESS (PN.103006060007)



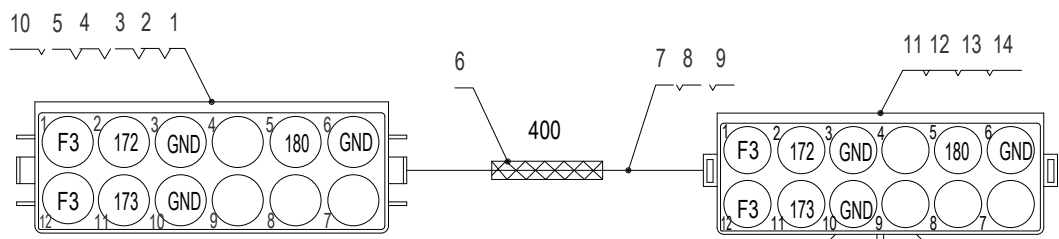
| No. | Part No.     | Qty. | Description            |
|-----|--------------|------|------------------------|
| 1   | 203080000408 | 1    | Sheath                 |
| 2   | 203080000021 | 1    | Lock                   |
| 3   | 203080000405 | 1    | Sheath                 |
| 4   | 203080000046 | 1    | Lock                   |
| 5   | 203080000054 | 2    | Sheath                 |
| 6   | 203080000088 | 2    | Lock                   |
| 7   | 203080000044 | 7    | Sheath                 |
| 8   | 203080000020 | 7    | Lock                   |
| 9   | 203080000068 | 28   | Blind plug             |
| 10  | 203080000406 | 1    | Sheath                 |
| 11  | 203080000112 | 1    | Lock                   |
| 12  | 203080000413 | 2    | Sheath                 |
| 13  | 203080000126 | 2    | Lock                   |
| 14  | 203080000520 | 1    | Connector, 31P, female |
| 15  | 203080000403 | 1    | Sheath                 |
| 16  | 203080000157 | 1    | Lock                   |
| 17  | 203080000410 | 1    | Sheath                 |
| 18  | 203080000016 | 1    | Lock                   |
| 19  | 203060000096 | 1    | End clip, 180 deg.     |

## 6.14 GROUND CONTROL BOX HARNESS (PN.103006060006)



| No. | Part No.     | Qty. | Description               |
|-----|--------------|------|---------------------------|
| 1   | 203080000023 | 34   | Terminal, blade-hole type |
| 2   | 203080000022 | 1    | Heat shrink tube          |
| 3   | 203080000036 | 10   | Terminal                  |
| 4   | 203080000404 | 2    | Sheath                    |
| 5   | 203080000032 | 2    | Lock                      |
| 6   | 203080000041 | 8    | Terminal, female          |
| 7   | 203080000068 | 2    | Blind plug                |
| 8   | 203080000473 | 2    | Cover, waterproof         |
| 9   | 203080000562 | 5    | Cable, thin wall (red)    |
| 10  | 203080000563 | 7    | Cable, thin wall (black)  |
| 11  | 203080000564 | 15   | Cable, thin wall (white)  |
| 12  | 216020000020 | 30   | Cable tie, nylon          |
| 13  | 203080000133 | 2    | Terminal, blade-hole type |
| 14  | 203080000044 | 1    | Sheath                    |
| 15  | 203080000020 | 1    | Lock                      |
| 16  | 203080000405 | 1    | Sheath                    |
| 17  | 203080000046 | 1    | Lock                      |
| 18  | 203080000033 | 2    | Terminal, male            |
| 19  | 203080000086 | 1    | Sheath                    |
| 20  | 203080003532 | 1    | Sheathed                  |
| 21  | 203080003216 | 1    | Sheath                    |
| 22  | 203080003218 | 7    | Terminal AMP              |
| 23  | 203080003533 | 1    | Lock                      |
| 24  | 203060000085 | 6    | Terminal, female          |
| 25  | 203060000087 | 6    | Blind plug                |

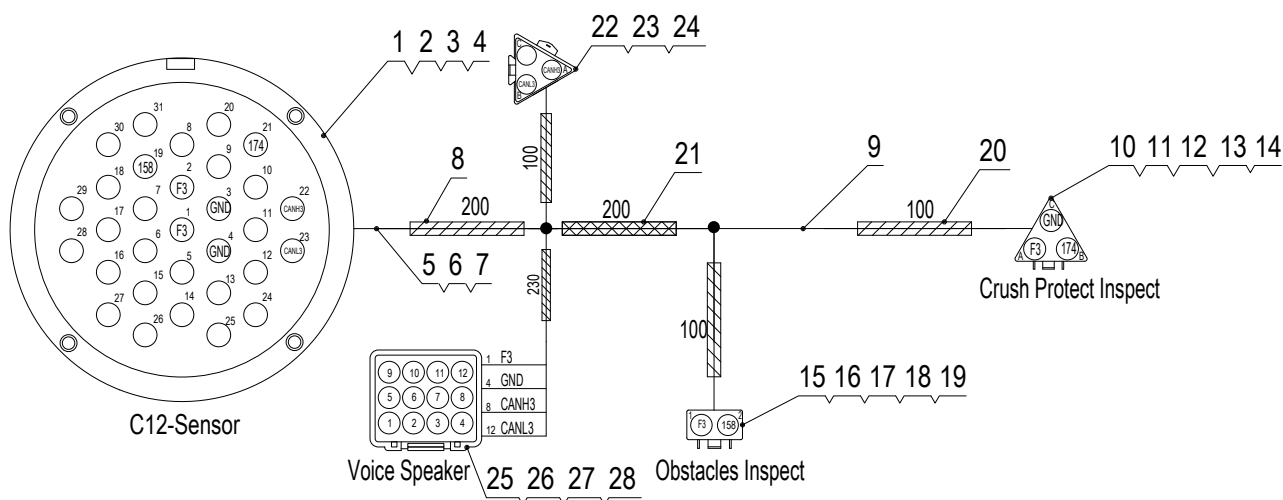
6.15 PLATFORM HARNESS (PN.103006063009)



| No. | Part No.     | Qty. | Description              |
|-----|--------------|------|--------------------------|
|     | 103006063009 | 1    | Wiring harness, platform |
| 1   | 203080000155 | 1    | Sheath                   |
| 2   | 203080000159 | 1    | Lock                     |
| 3   | 203080000041 | 8    | Terminal, female         |
| 4   | 203080000068 | 8    | Blind plug               |
| 5   | 203080003001 | 1    | End clip                 |
| 6   | 203080000037 | 1m   | Corrugated pipe          |
| 7   | 203080000562 | 2    | Cable, thin wall (red)   |
| 8   | 203080000563 | 2    | Cable, thin wall (black) |
| 9   | 203080000564 | 1    | Cable, thin wall (white) |
| 10  | 203080003010 | 1    | Nut, big-size            |
| 11  | 203080000403 | 1    | Sheath                   |
| 12  | 203080000157 | 1    | Lock                     |
| 13  | 203080000033 | 8    | Terminal, male           |
| 14  | 203080000459 | 1    | End clip                 |



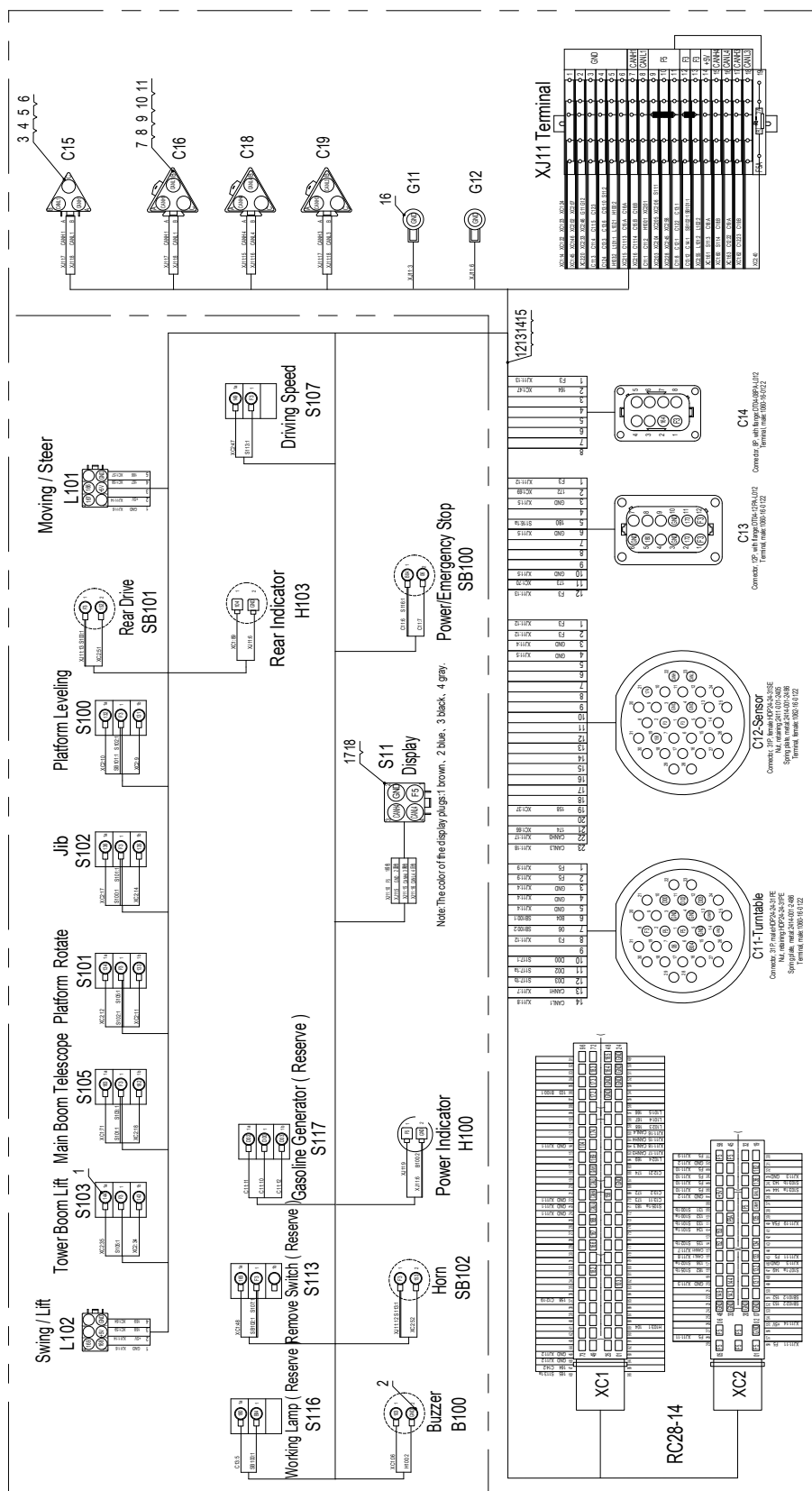
## 6.16 PLATFORM HARNESS ( PN.103006063018 )



| No. | Part No.     | Qty. | Description                    |
|-----|--------------|------|--------------------------------|
| 1   | 203080000515 | 1    | Connector, 31P, male           |
| 2   | 203080000068 | 24   | Blind plug                     |
| 3   | 203080000033 | 10   | Terminal, male                 |
| 4   | 203060000096 | 1    | End clip, 180 deg.             |
| 5   | 203080000562 | 1    | Cable, thin wall (red)         |
| 6   | 203080003326 | 1    | Cable, thin wall               |
| 7   | 203080000564 | 1    | Cable, thin wall (white)       |
| 8   | 203080000419 | 1    | Nylon hose, closed-end         |
| 9   | 203080003313 | 1    | Cable, thin wall               |
| 10  | 203080000041 | 5    | Terminal, female               |
| 11  | 203080000404 | 1    | Sheath                         |
| 12  | 203080000032 | 1    | Lock                           |
| 13  | 203080000508 | 1    | End clip                       |
| 14  | 203080000473 | 1    | Cover, waterproof              |
| 15  | 203080000410 | 1    | Sheath                         |
| 16  | 203080000016 | 1    | Lock                           |
| 17  | 203080000437 | 1    | End attachments, 2-pin, female |
| 18  | 203080000448 | 1    | Rubber, 2-pin                  |
| 19  | 203080000474 | 1    | Cover, waterproof              |
| 20  | 203080000463 | 1    | Nylon hose, closed-end         |
| 21  | 203080000037 | 1    | Corrugated pipe                |
| 22  | 203080000405 | 1    | Sheath                         |
| 23  | 203080000046 | 1    | Lock                           |
| 24  | 203080000086 | 1    | Sheath                         |

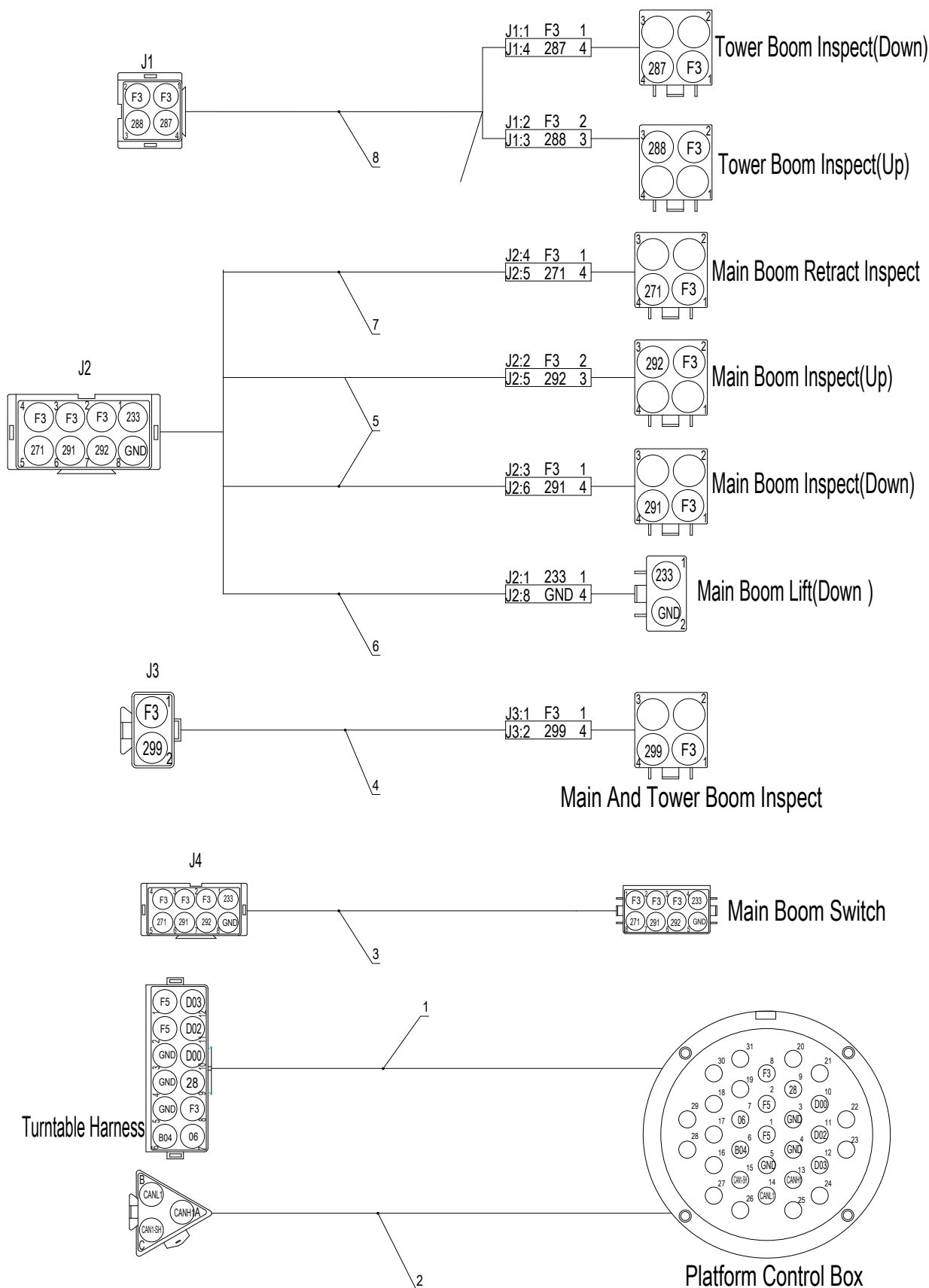
| No. | Part No.     | Qty. | Description    |
|-----|--------------|------|----------------|
| 25  | 203080003584 | 1    | Sheath         |
| 26  | 203080003585 | 4    | Terminal       |
| 27  | 203080003586 | 4    | Seal Ring      |
| 28  | 203080003587 | 12   | Blind Plugging |

## 6.17 PLATFORM CONTROL BOX HARNESS ( PN.103006063029 )



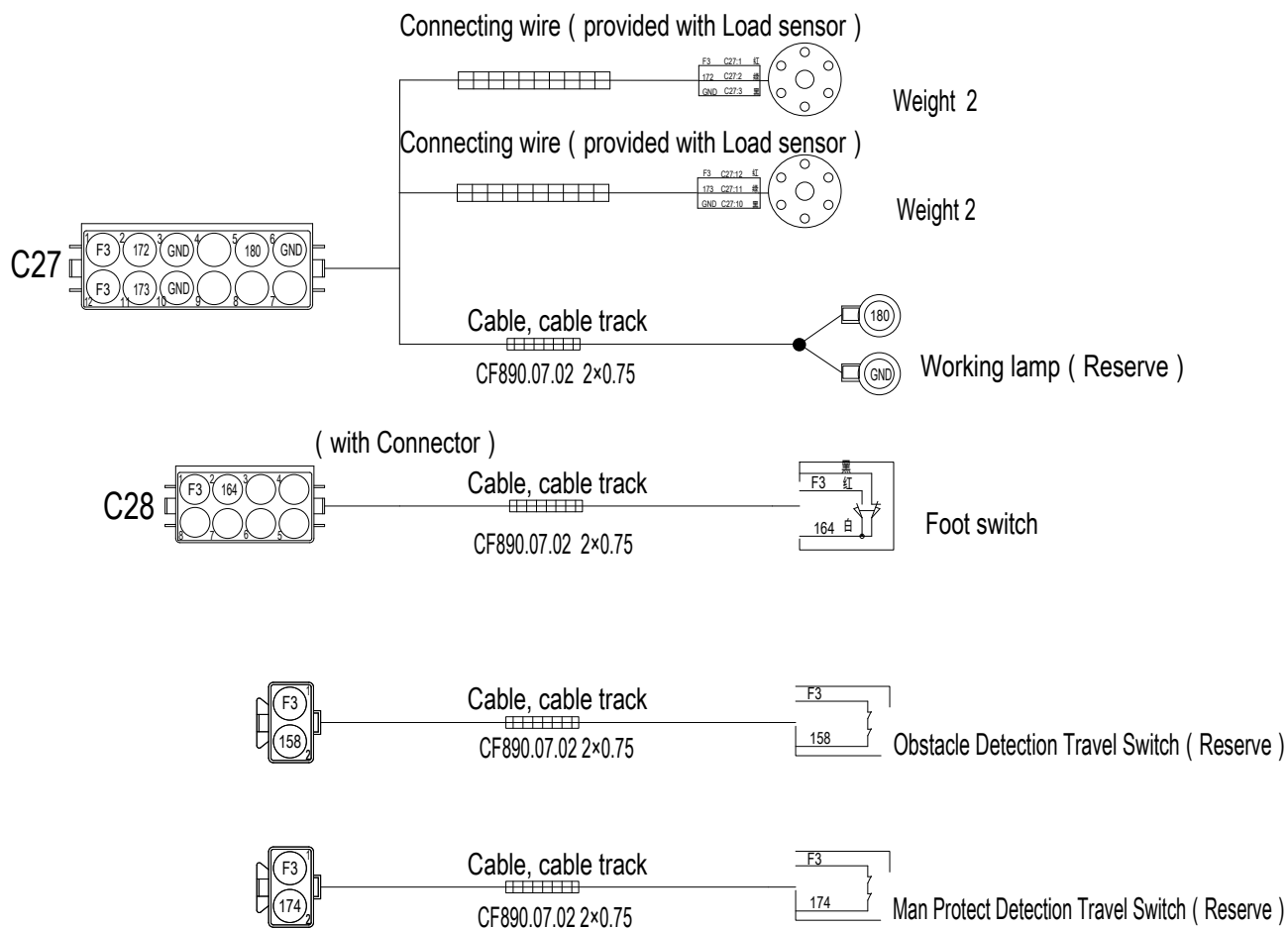
| No. | Part No.     | Qty. | Description               |
|-----|--------------|------|---------------------------|
| 1   | 203080000023 | 22   | Terminal, blade-hole type |
| 2   | 203080000036 | 8    | Terminal                  |
| 3   | 203080000404 | 1    | Sheath                    |
| 4   | 203080000032 | 1    | Lock                      |
| 5   | 203080000041 | 2    | Terminal, female          |
| 6   | 203080000473 | 1    | Cover, waterproof         |
| 7   | 203080000405 | 2    | Sheath                    |
| 8   | 203080000046 | 2    | Lock                      |
| 9   | 203080000033 | 4    | Terminal, male            |
| 10  | 203080000068 | 3    | Blind plug                |
| 11  | 203080000086 | 2    | Sheath                    |
| 12  | 203080000562 | 4    | Cable, thin wall (red)    |
| 13  | 203080000563 | 3    | Cable, thin wall (black)  |
| 14  | 203080000564 | 10   | Cable, thin wall (white)  |
| 15  | 216020000020 | 30   | Cable tie, nylon          |
| 16  | 203080000133 | 2    | Terminal, blade-hole type |
| 17  | 203080000044 | 1    | Sheath                    |
| 18  | 203080000020 | 1    | Lock                      |

## 6.18 CABLE TRACK HARNESS ( PN.103006063017 )



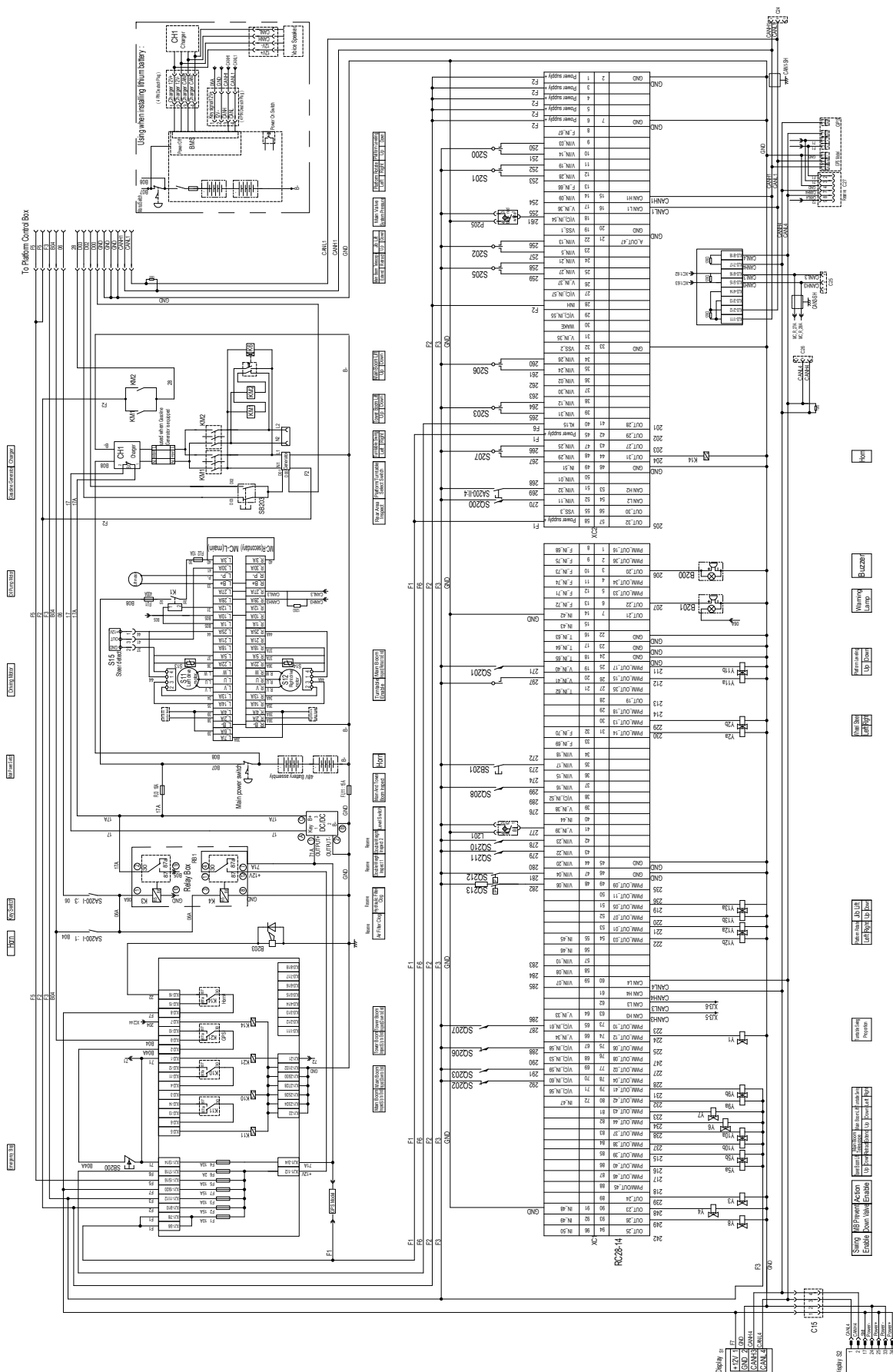
| No. | Part No.     | Qty. | Description                 |
|-----|--------------|------|-----------------------------|
| 1   | 203230000650 | 1    | Cable, cable track          |
| 2   | 203230000651 | 1    | Cable, CAN bus, cable track |
| 3   | 203230000644 | 1    | Cable, cable track          |
| 4   | 203230000640 | 1    | Cable, cable track          |
| 5   | 203230000634 | 2    | Cable, cable track          |
| 6   | 203230000636 | 1    | Cable, cable track          |
| 7   | 203230000635 | 1    | Cable, cable track          |
| 8   | 203230000639 | 1    | Cable, cable track          |

## 6.19 PLATFORM SENSORS HARNESS (PN.103006060012)



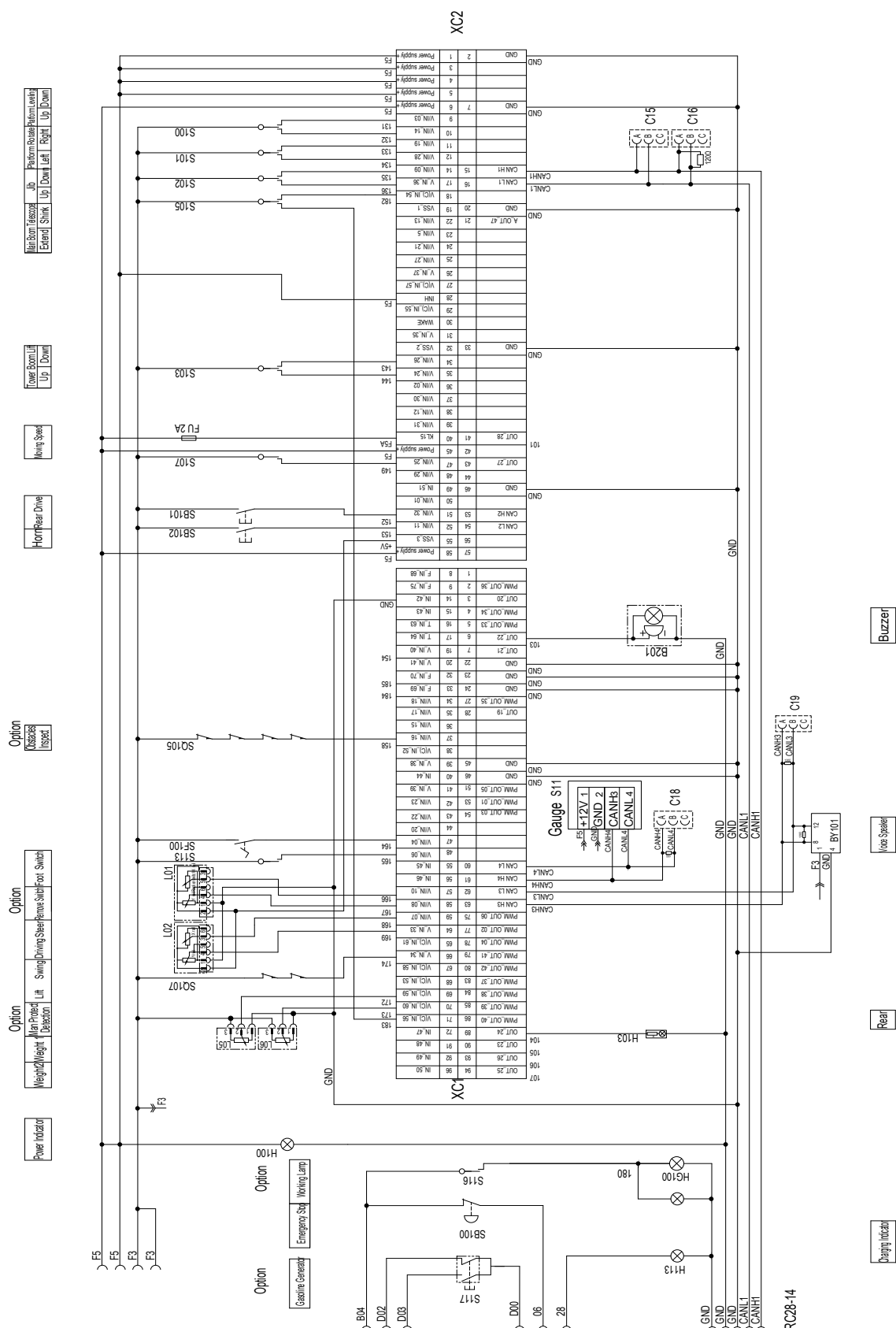
## 6.20 ELECTRICAL SCHEMATIC DIAGRAM

Electrical schematic diagram of turntable (PN.103006060013)





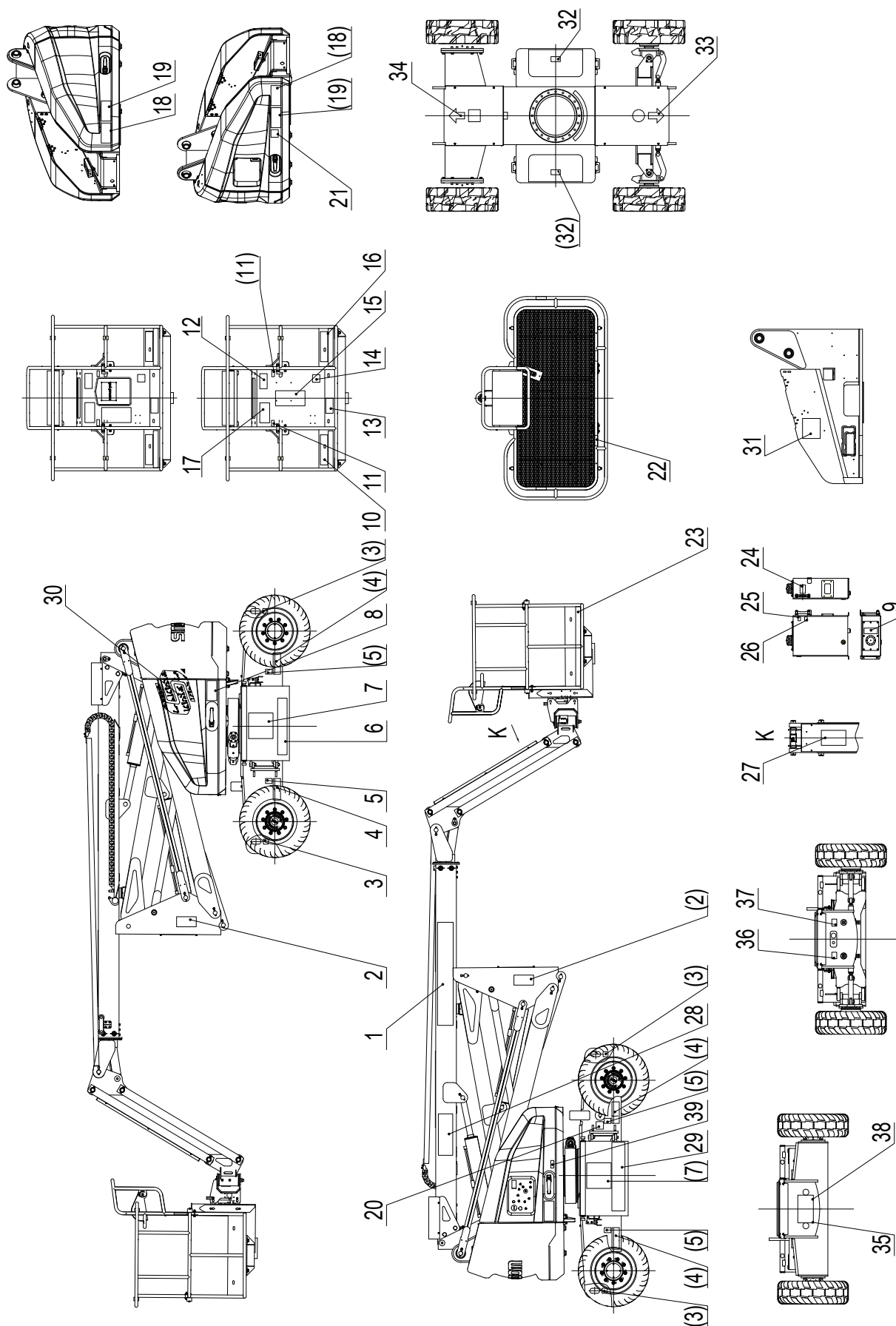
### Electrical schematic diagram of platform (PN.103006063035)



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## 7 DECALS

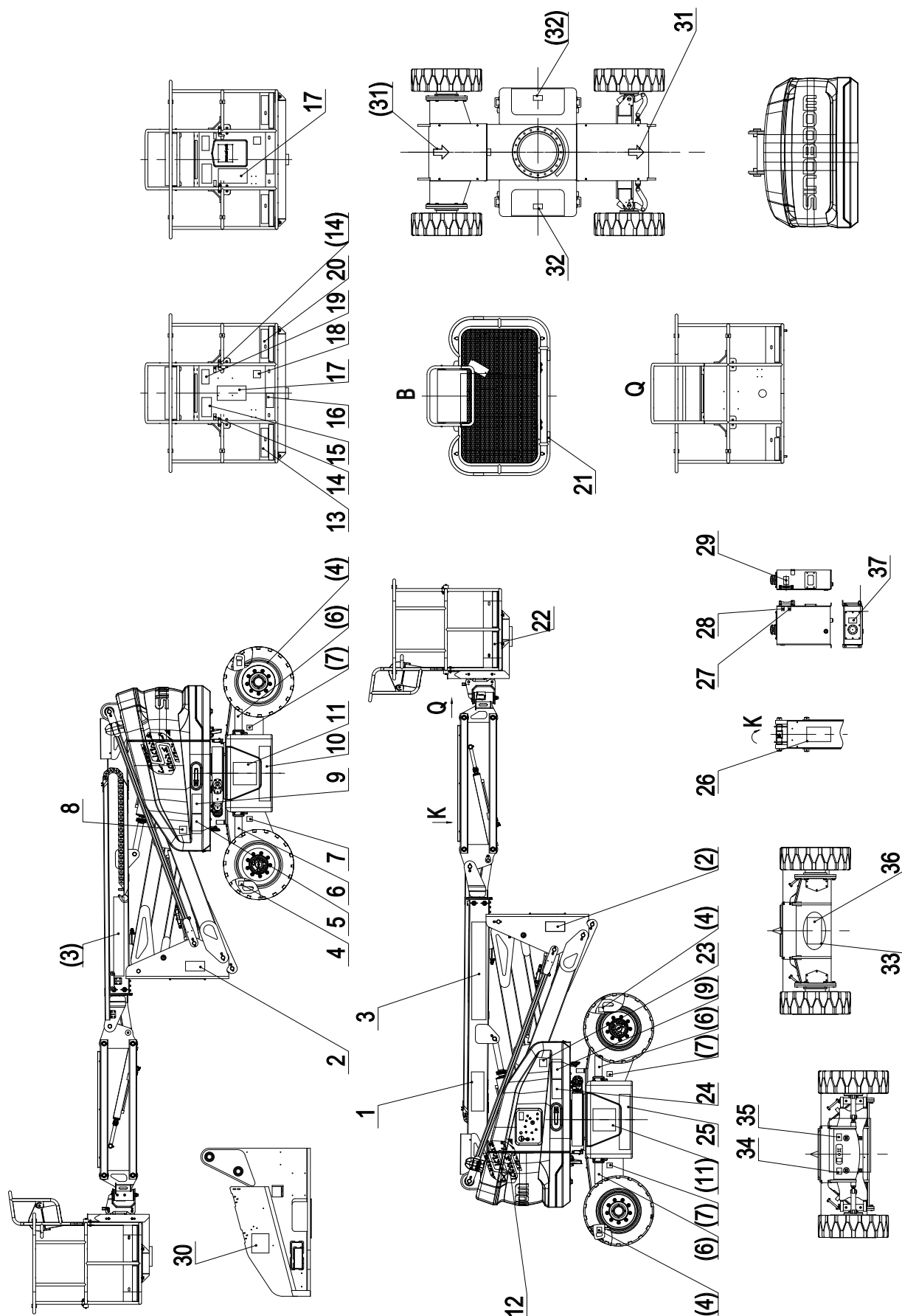
## 7.1 DECALS(ANSI)



| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103006103008 | 1    | Decals (ANSI)-AB14EJ                  |
| 1   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 2   | 104011100011 | 2    | Decal-Crush hazard                    |
| 3   | 104011100002 | 4    | Decal-Lifting points                  |
| 4   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 5   | 103006103009 | 4    | Decals-Wheel load 3580kg              |
| 6   | 103003100009 | 1    | Decal-Contact information             |
| 7   | 103003100014 | 2    | Decal-Recyclable                      |
| 8   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 9   | 104009100022 | 1    | Decal-Hydraulic oil                   |
| 10  | 103007103002 | 1    | Decal-Tipping hazard                  |
| 11  | 101016100030 | 2    | Decal-Lanyard anchorage points        |
| 12  | 104011100009 | 1    | Decal-Read manuals                    |
| 13  | 104011100019 | 1    | Decal-Crush hazard                    |
| 14  | 104011100017 | 1    | Decal-Footswitch                      |
| 15  | 104011100020 | 1    | Decal-General safety                  |
| 16  | 103007103001 | 1    | Decal-Rated load 230kg                |
| 17  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 18  | 104011100007 | 2    | Decal-Tipping hazard                  |
| 19  | 104011100013 | 2    | Decal-Electrocution hazard            |
| 20  | 104011100016 | 1    | Decal-Emergency stop switch           |
| 21  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 22  | 104011100021 | 4    | Decal-Crush hazard                    |
| 23  | 216060000002 | 4    | Attention line                        |
| 24  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 25  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 26  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 27  | 104011100012 | 1    | Decal-Fall hazard                     |
| 28  | 103006103001 | 1    | Decal-AB460EJ                         |
| 29  | 103003100015 | 1    | Decal-Contact information             |
| 30  | 103008103006 | 1    | LOGO-symbol                           |
| 31  | 103006103000 | 1    | Decal-Emergency down                  |
| 32  | 101012100001 | 2    | Decal-No fire                         |
| 33  | 103006103011 | 1    | Decal-Direction                       |
| 34  | 103006103012 | 1    | Decal-Direction                       |
| 35  | 215050000012 | 4    | Blind rivet 4×8-ZnD GB/T 12618.2      |
| 36  | 101012100010 | 1    | Decal-Electrocution hazard            |

| No. | Part No.     | Qty. | Description             |
|-----|--------------|------|-------------------------|
| 37  | 101012100014 | 1    | Decal-Charging voltage  |
| 38  | 103006103006 | 1    | Nameplate-ANSI(AB)      |
| 39  | 101040103015 | 1    | Decal-Annual inspection |

## 7.2 DECALS(AS)

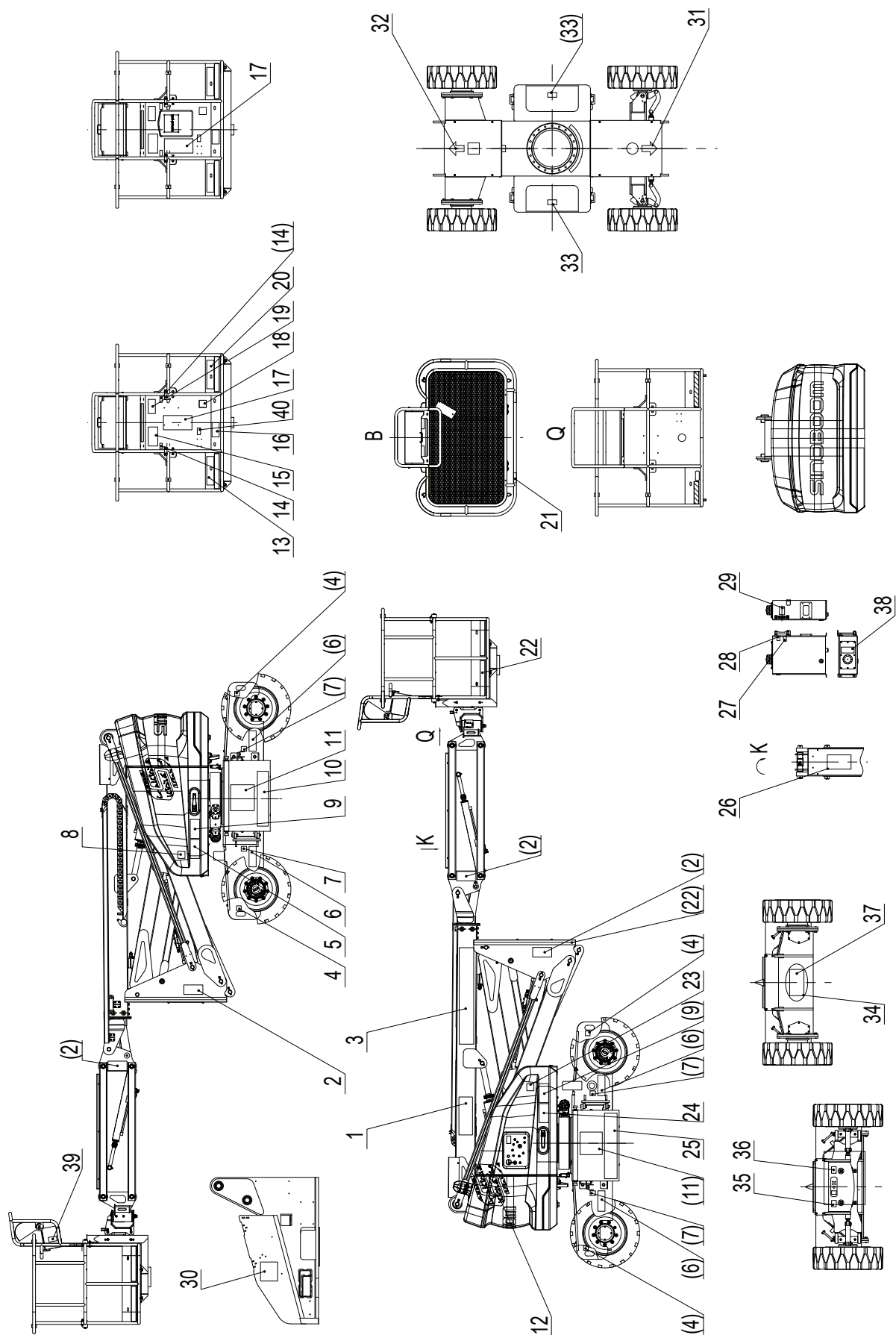


| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103004103000 | 1    | Decals (AS)-AB14EJ                    |
| 1   | 103006103005 | 1    | Decal-AB14EJ                          |
| 2   | 104011100011 | 2    | Decal-Crush hazard                    |
| 3   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 4   | 104011100002 | 4    | Decal-Lifting points                  |
| 5   | 104011100007 | 1    | Decal-Tipping hazard                  |
| 6   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 7   | 103006103007 | 4    | Decals-Wheel load 3580kg              |
| 8   | 104011100016 | 1    | Decal-Emergency stop switch           |
| 9   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 10  | 103003100009 | 1    | Decal-Contact information             |
| 11  | 103003100014 | 2    | Decal-Recyclable                      |
| 12  | 103008103006 | 2    | LOGO-symbol                           |
| 13  | 104010100015 | 1    | Decal-Tipping hazard                  |
| 14  | 101016100030 | 2    | Decal-Lanyard anchorage points        |
| 15  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 16  | 104011100019 | 1    | Decal-Crush hazard                    |
| 17  | 104011100020 | 1    | Decal-General safety                  |
| 18  | 104011100017 | 1    | Decal-Footswitch                      |
| 19  | 104011100009 | 1    | Decal-Read manuals                    |
| 20  | 104008100011 | 1    | Decal-Rated load 230kg                |
| 21  | 104011100021 | 4    | Decal-Crush hazard                    |
| 22  | 216060000002 | 4    | Attention line                        |
| 23  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 24  | 104011100013 | 1    | Decal-Electrocution hazard            |
| 25  | 103003100015 | 1    | Decal-Contact information             |
| 26  | 104011100012 | 1    | Decal-Fall hazard                     |
| 27  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 28  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 29  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 30  | 103006103000 | 1    | Decal-Emergency down                  |
| 31  | 103003100006 | 2    | Decal-Direction                       |
| 32  | 101012100001 | 2    | Decal-No fire                         |
| 33  | 215050000001 | 4    | Blind rivet 3×8-ZnD GB/T 12618.2      |
| 34  | 101012100010 | 1    | Decal-Electrocution hazard            |
| 35  | 101012100014 | 1    | Decal-Charging voltage                |



| No. | Part No.     | Qty. | Description         |
|-----|--------------|------|---------------------|
| 36  | 105018100005 | 1    | Nameplate-AS ( AB ) |
| 37  | 104009100022 | 1    | Decal-Hydraulic oil |

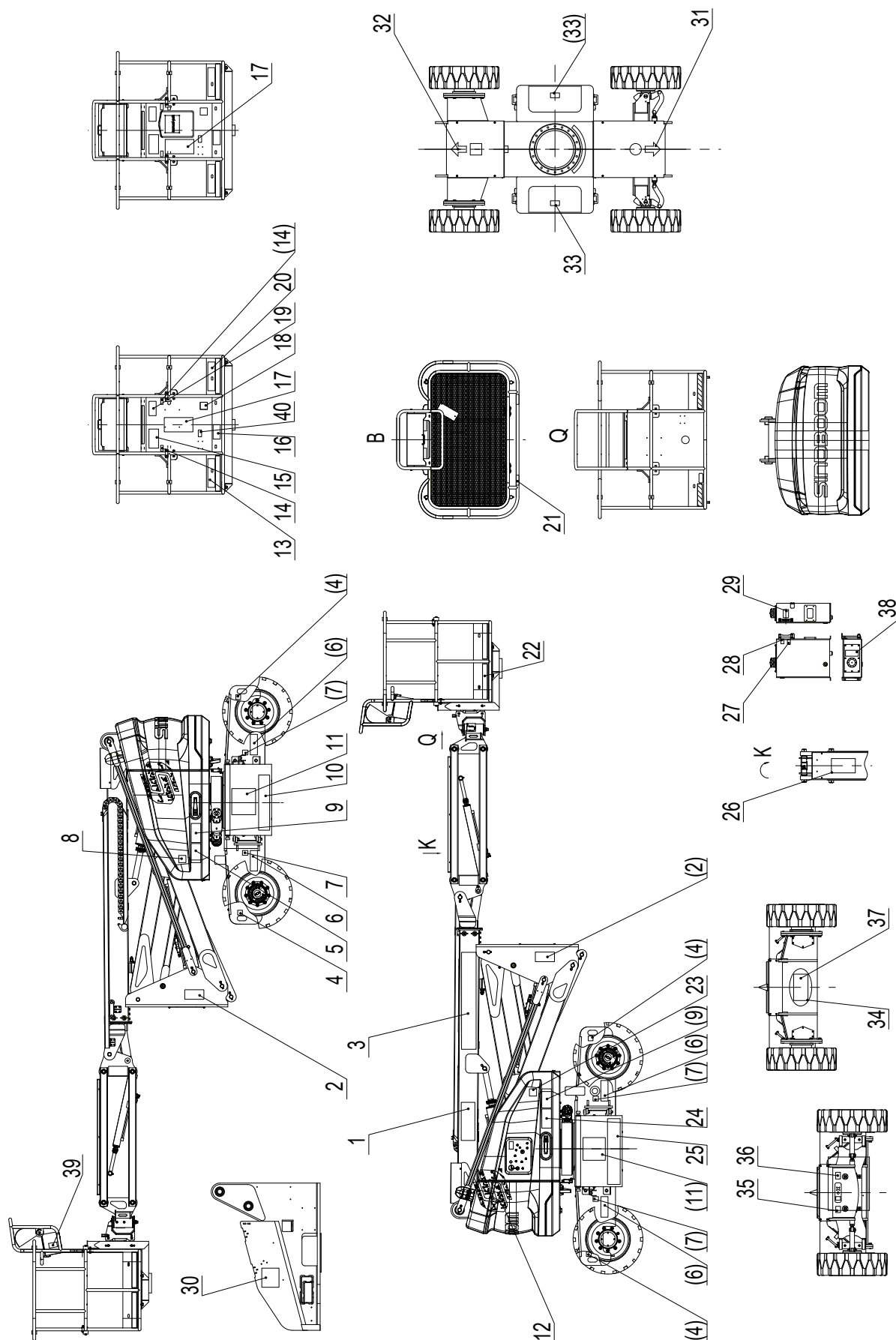
## 7.3 DECALS(CE-METRIC)



| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103004000006 | 1    | Decals (CE-Metric)-AB14EJ             |
| 1   | 103006103005 | 1    | Decal-AB14EJ                          |
| 2   | 104011100011 | 4    | Decal-Crush hazard                    |
| 3   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 4   | 104011100002 | 4    | Decal-Lifting points                  |
| 5   | 104011100007 | 1    | Decal-Tipping hazard                  |
| 6   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 7   | 103006103007 | 4    | Decals-Wheel load 3580kg              |
| 8   | 104011100016 | 1    | Decal-Emergency stop switch           |
| 9   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 10  | 103003100009 | 1    | Decal-Contact information             |
| 11  | 103003100014 | 2    | Decal-Recyclable                      |
| 12  | 103008103006 | 2    | LOGO-symbol                           |
| 13  | 104010100015 | 1    | Decal-Tipping hazard                  |
| 14  | 103006103014 | 2    | Decal-Lanyard anchorage points        |
| 15  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 16  | 104011100019 | 1    | Decal-Crush hazard                    |
| 17  | 104011100020 | 1    | Decal-General safety                  |
| 18  | 104011100017 | 1    | Decal-Footswitch                      |
| 19  | 104011100009 | 1    | Decal-Read manuals                    |
| 20  | 103004103003 | 1    | Decal-Rated load 230kg                |
| 21  | 104011100021 | 4    | Decal-Crush hazard                    |
| 22  | 216060000002 | 6    | Attention line                        |
| 23  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 24  | 104011100013 | 1    | Decal-Electrocution hazard            |
| 25  | 103003100015 | 1    | Decal-Contact information             |
| 26  | 104011100012 | 1    | Decal-Fall hazard                     |
| 27  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 28  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 29  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 30  | 103006103000 | 1    | Decal-Emergency down                  |
| 31  | 103006103011 | 1    | Decal-Direction                       |
| 32  | 103006103012 | 1    | Decal-Direction                       |
| 33  | 101012100001 | 2    | Decal-No fire                         |
| 34  | 215050000001 | 4    | Blind rivet 3×8-ZnD GB/T 12618.2      |
| 35  | 101012100010 | 1    | Decal-Electrocution hazard            |
| 36  | 101012100014 | 1    | Decal-Charging voltage                |

| No. | Part No.     | Qty. | Description         |
|-----|--------------|------|---------------------|
| 37  | 104011100028 | 1    | Nameplate-CE(AB)    |
| 38  | 104009100022 | 1    | Decal-Hydraulic oil |
| 39  | 103006103013 | 1    | Decal-Bumper reset  |
| 40  | 103006103015 | 1    | Decals-230V         |

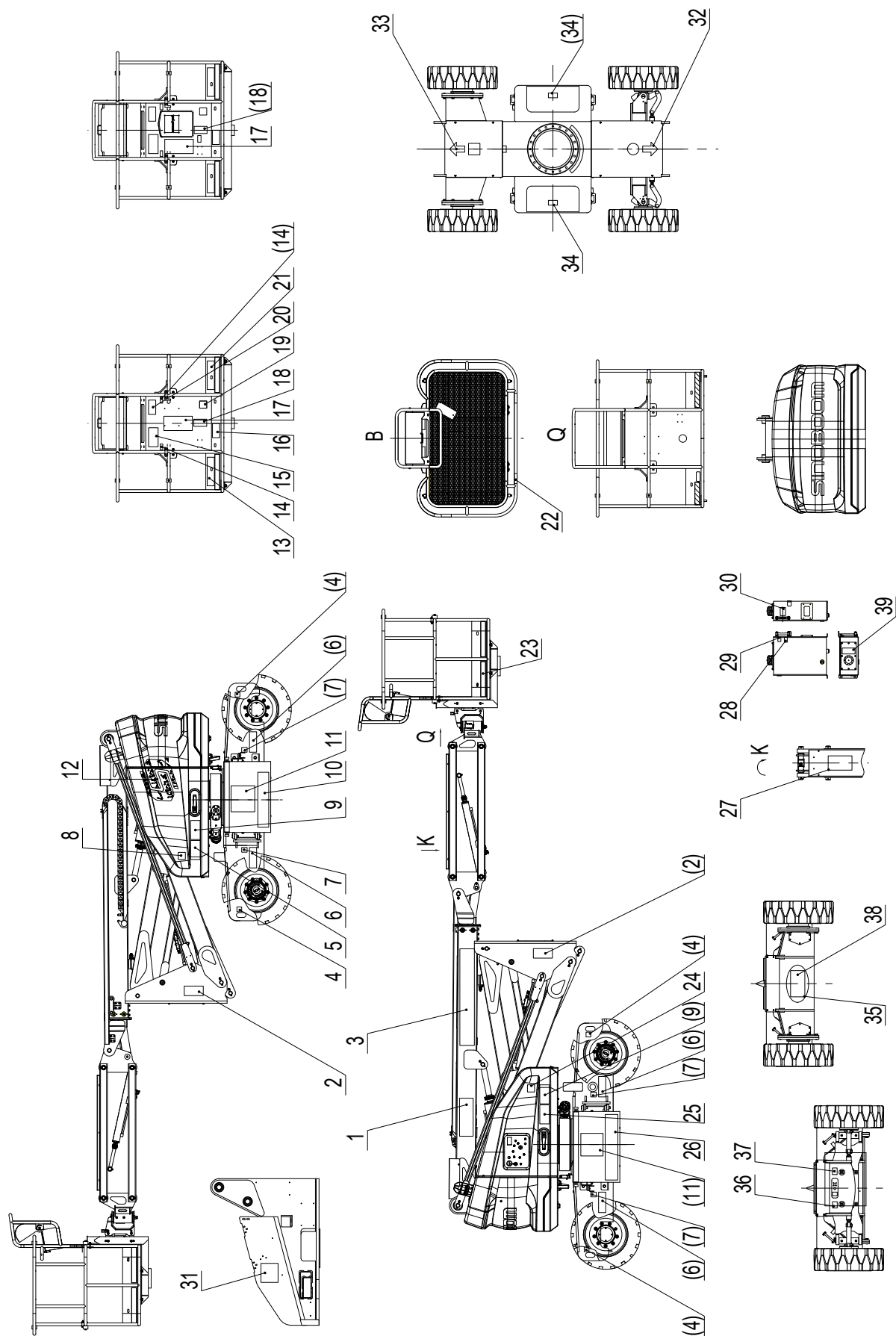
## 7.4 DECALS(CE-IMPERIAL)



| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103006103010 | 1    | Decals (CE-Imperia)-AB14EJ            |
| 1   | 103006103001 | 1    | Decal-AB460EJ                         |
| 2   | 104011100011 | 4    | Decal-Crush hazard                    |
| 3   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 4   | 104011100002 | 4    | Decal-Lifting points                  |
| 5   | 104011100007 | 1    | Decal-Tipping hazard                  |
| 6   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 7   | 103006103007 | 4    | Decals-Wheel load 3580kg              |
| 8   | 104011100016 | 1    | Decal-Emergency stop switch           |
| 9   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 10  | 103003100009 | 1    | Decal-Contact information             |
| 11  | 103003100014 | 2    | Decal-Recyclable                      |
| 12  | 103008103006 | 2    | LOGO-symbol                           |
| 13  | 104010100015 | 1    | Decal-Tipping hazard                  |
| 14  | 101016100030 | 2    | Decal-Lanyard anchorage points        |
| 15  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 16  | 104011100019 | 1    | Decal-Crush hazard                    |
| 17  | 104011100020 | 1    | Decal-General safety                  |
| 18  | 104011100017 | 1    | Decal-Footswitch                      |
| 19  | 104011100009 | 1    | Decal-Read manuals                    |
| 20  | 103004103003 | 1    | Decal-Rated load 230kg                |
| 21  | 104011100021 | 4    | Decal-Crush hazard                    |
| 22  | 216060000002 | 4    | Attention line                        |
| 23  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 24  | 104011100013 | 1    | Decal-Electrocution hazard            |
| 25  | 103003100015 | 1    | Decal-Contact information             |
| 26  | 104011100012 | 1    | Decal-Fall hazard                     |
| 27  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 28  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 29  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 30  | 103006103000 | 1    | Decal-Emergency down                  |
| 31  | 103006103011 | 1    | Decal-Direction                       |
| 32  | 103006103012 | 1    | Decal-Direction                       |
| 33  | 101012100001 | 2    | Decal-No fire                         |
| 34  | 215050000001 | 4    | Blind rivet 3×8-ZnD GB/T 12618.2      |
| 35  | 101012100010 | 1    | Decal-Electrocution hazard            |
| 36  | 101012100014 | 1    | Decal-Charging voltage                |

| No. | Part No.     | Qty. | Description         |
|-----|--------------|------|---------------------|
| 37  | 104011100028 | 1    | Nameplate-CE(AB)    |
| 38  | 104009100022 | 1    | Decal-Hydraulic oil |
| 39  | 103006103013 | 1    | Decal-Bumper reset  |

## 7.5 DECALS(CSA)

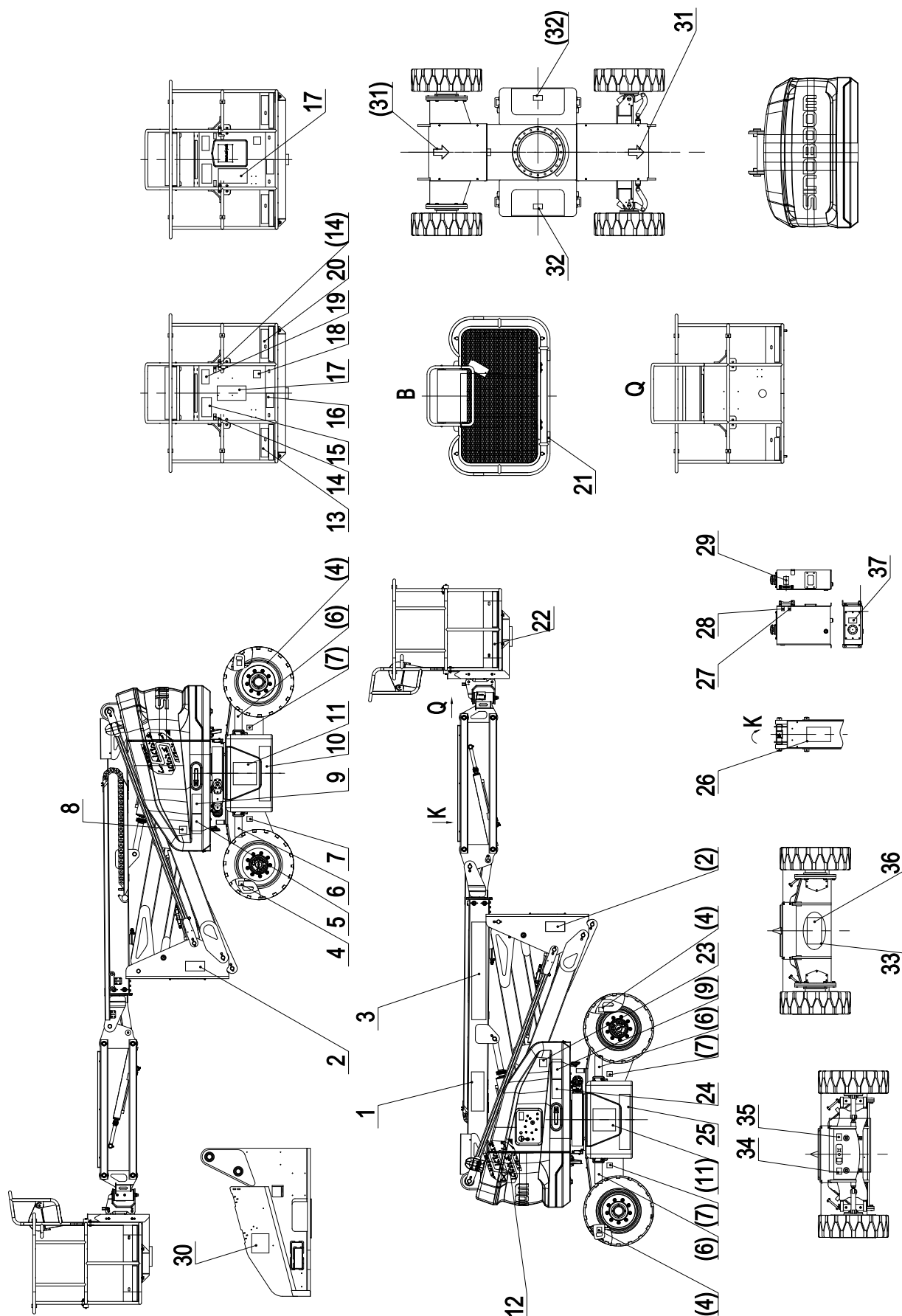




| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103006103004 | 1    | Decals (CSA)-AB14EJ                   |
| 1   | 103006103001 | 1    | Decal-AB460EJ                         |
| 2   | 104011100011 | 2    | Decal-Crush hazard                    |
| 3   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 4   | 104011100002 | 4    | Decal-Lifting points                  |
| 5   | 104011100007 | 1    | Decal-Tipping hazard                  |
| 6   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 7   | 103006103009 | 4    | Decals-Wheel load 3580kg              |
| 8   | 104011100016 | 1    | Decal-Emergency stop switch           |
| 9   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 10  | 103003100009 | 1    | Decal-Contact information             |
| 11  | 103003100014 | 2    | Decal-Recyclable                      |
| 12  | 103008103006 | 1    | LOGO-symbol                           |
| 13  | 104010100015 | 1    | Decal-Tipping hazard                  |
| 14  | 101016100030 | 2    | Decal-Lanyard anchorage points        |
| 15  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 16  | 104011100019 | 1    | Decal-Crush hazard                    |
| 17  | 104011100020 | 1    | Decal-General safety                  |
| 18  | 103006103003 | 1    | Decal-Operating instructions          |
| 19  | 104011100017 | 1    | Decal-Footswitch                      |
| 20  | 104011100009 | 1    | Decal-Read manuals                    |
| 21  | 103007103001 | 1    | Decal-Rated load 230kg                |
| 22  | 104011100021 | 4    | Decal-Crush hazard                    |
| 23  | 216060000002 | 4    | Attention line                        |
| 24  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 25  | 104011100013 | 1    | Decal-Electrocution hazard            |
| 26  | 103003100015 | 1    | Decal-Contact information             |
| 27  | 104011100012 | 1    | Decal-Fall hazard                     |
| 28  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 29  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 30  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 31  | 103006103000 | 1    | Decal-Emergency down                  |
| 32  | 103006103011 | 1    | Decal-Direction                       |
| 33  | 103006103012 | 1    | Decal-Direction                       |
| 34  | 101012100001 | 2    | Decal-No fire                         |
| 35  | 215050000001 | 4    | Blind rivet 3×8-ZnD GB/T 12618.2      |
| 36  | 101012100010 | 1    | Decal-Electrocution hazard            |

| No. | Part No.     | Qty. | Description            |
|-----|--------------|------|------------------------|
| 37  | 101012100014 | 1    | Decal-Charging voltage |
| 38  | 103006103002 | 1    | Nameplate-CSA(AB)      |
| 39  | 104009100022 | 1    | Decal-Hydraulic oil    |

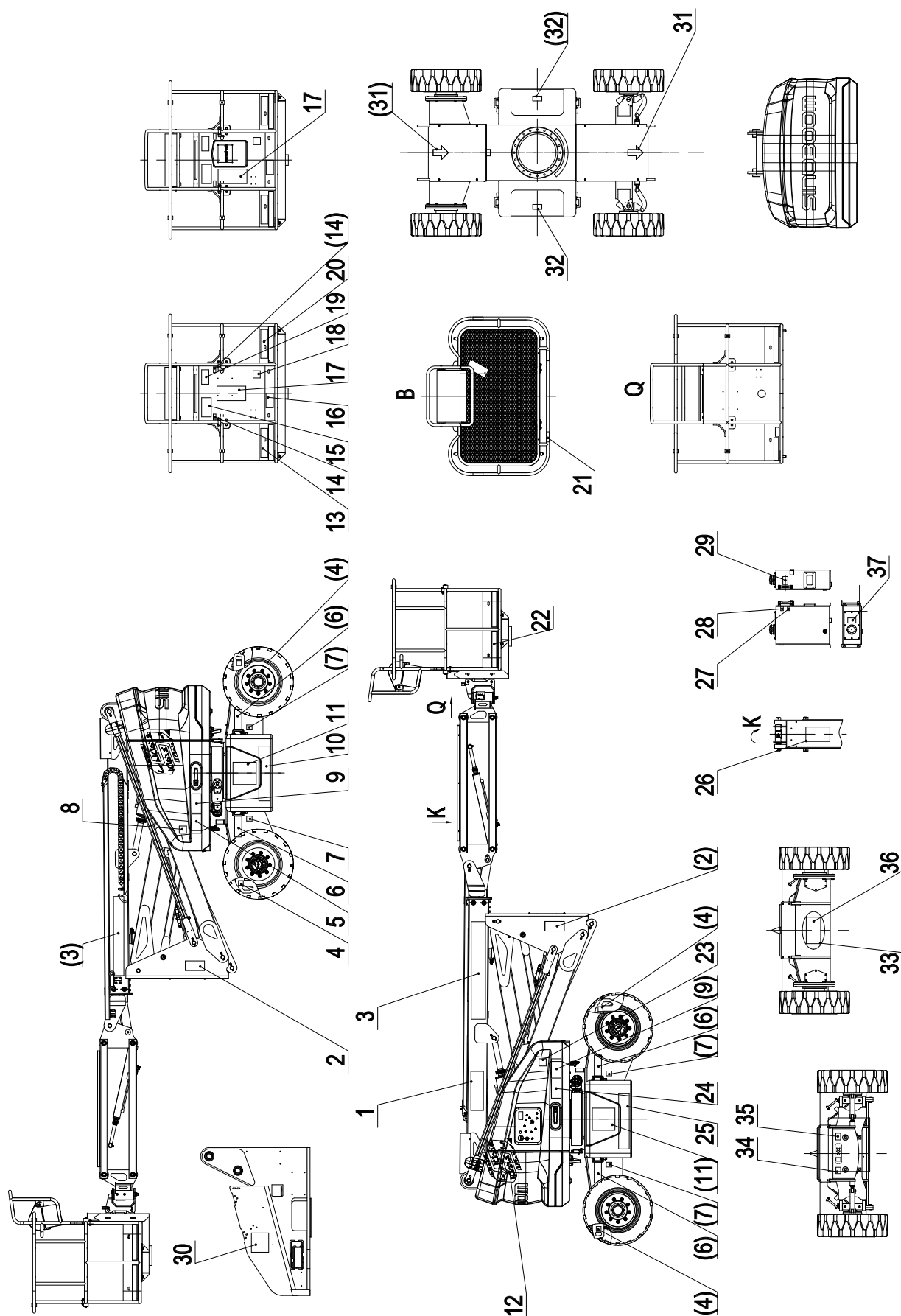
## 7.6 DECALS(GB)



| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103004000004 | 1    | Decals (GB)-AB14EJ                    |
| 1   | 103006103005 | 1    | Decal-AB14EJ                          |
| 2   | 104011100011 | 2    | Decal-Crush hazard                    |
| 3   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 4   | 104011100002 | 4    | Decal-Lifting points                  |
| 5   | 104011100007 | 1    | Decal-Tipping hazard                  |
| 6   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 7   | 103006103007 | 4    | Decals-Wheel load 3580kg              |
| 8   | 104011100016 | 1    | Decal-Emergency stop switch           |
| 9   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 10  | 103003100004 | 1    | Decal-Contact information             |
| 11  | 103003100014 | 2    | Decal-Recyclable                      |
| 12  | 103008103006 | 2    | LOGO-symbol                           |
| 13  | 104010100015 | 1    | Decal-Tipping hazard                  |
| 14  | 101016100030 | 2    | Decal-Lanyard anchorage points        |
| 15  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 16  | 104011100019 | 1    | Decal-Crush hazard                    |
| 17  | 104011100020 | 1    | Decal-General safety                  |
| 18  | 104011100017 | 1    | Decal-Footswitch                      |
| 19  | 104011100009 | 1    | Decal-Read manuals                    |
| 20  | 104008100011 | 1    | Decal-Rated load 230kg                |
| 21  | 104011100021 | 4    | Decal-Crush hazard                    |
| 22  | 216060000002 | 4    | Attention line                        |
| 23  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 24  | 104011100013 | 1    | Decal-Electrocution hazard            |
| 25  | 103003100013 | 1    | Decal-Contact information             |
| 26  | 104011100012 | 1    | Decal-Fall hazard                     |
| 27  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 28  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 29  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 30  | 103006103000 | 1    | Decal-Emergency down                  |
| 31  | 103003100006 | 2    | Decal-Direction                       |
| 32  | 101012100001 | 2    | Decal-No fire                         |
| 33  | 215050000001 | 4    | Blind rivet 3×8-ZnD GB/T 12618.2      |
| 34  | 101012100010 | 1    | Decal-Electrocution hazard            |
| 35  | 101012100014 | 1    | Decal-Charging voltage                |

| No. | Part No.     | Qty. | Description         |
|-----|--------------|------|---------------------|
| 36  | 105001100057 | 1    | Nameplate-GB        |
| 37  | 104009100018 | 1    | Decal-Hydraulic oil |

## 7.7 DECALS ( KCS )



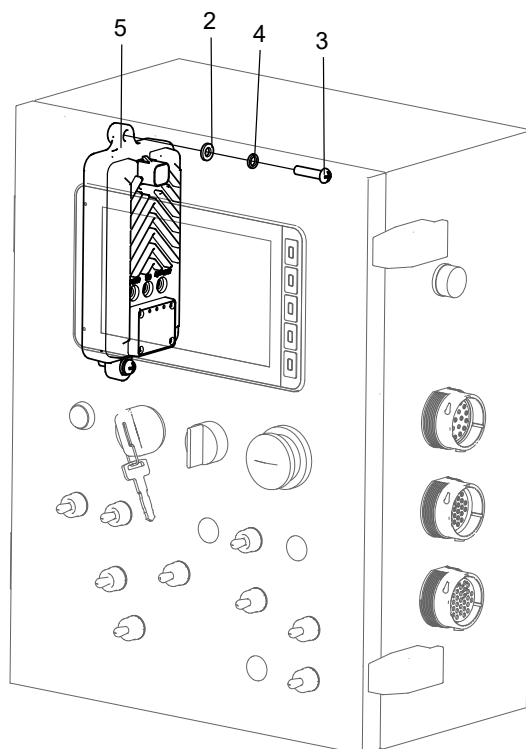
| No. | Part No.     | Qty. | Description                           |
|-----|--------------|------|---------------------------------------|
|     | 103004103001 | 1    | Decals (KCS)-AB14EJ                   |
| 1   | 103006103005 | 1    | Decal-AB14EJ                          |
| 2   | 104011100011 | 2    | Decal-Crush hazard                    |
| 3   | 105058103003 | 1    | LOGO-SINOBOOM                         |
| 4   | 104011100002 | 4    | Decal-Lifting points                  |
| 5   | 104011100007 | 1    | Decal-Tipping hazard                  |
| 6   | 104011100001 | 4    | Decal-Tipping hazard                  |
| 7   | 103006103007 | 4    | Decals-Wheel load 3580kg              |
| 8   | 104011100016 | 1    | Decal-Emergency stop switch           |
| 9   | 104011100006 | 2    | Decal-Bulkhead overhaul               |
| 10  | 103003100009 | 1    | Decal-Contact information             |
| 11  | 103003100014 | 2    | Decal-Recyclable                      |
| 12  | 103008103006 | 2    | LOGO-symbol                           |
| 13  | 104010100015 | 1    | Decal-Tipping hazard                  |
| 14  | 101016100030 | 2    | Decal-Lanyard anchorage points        |
| 15  | 104011100015 | 1    | Decal-Tipping hazard                  |
| 16  | 104011100019 | 1    | Decal-Crush hazard                    |
| 17  | 104011100020 | 1    | Decal-General safety                  |
| 18  | 104011100017 | 1    | Decal-Footswitch                      |
| 19  | 104011100009 | 1    | Decal-Read manuals                    |
| 20  | 104008100011 | 1    | Decal-Rated load 230kg                |
| 21  | 104011100021 | 4    | Decal-Crush hazard                    |
| 22  | 216060000002 | 4    | Attention line                        |
| 23  | 101016100034 | 1    | Decal-Noise 72dB                      |
| 24  | 104011100013 | 1    | Decal-Electrocution hazard            |
| 25  | 103003100015 | 1    | Decal-Contact information             |
| 26  | 104011100012 | 1    | Decal-Fall hazard                     |
| 27  | 104011100003 | 1    | Decal-Hydraulic oil level             |
| 28  | 104011100010 | 1    | Decal-Hydraulic oil level             |
| 29  | 104010100021 | 1    | Decal-Hydraulic oil temperature range |
| 30  | 103006103000 | 1    | Decal-Emergency down                  |
| 31  | 103003100006 | 2    | Decal-Direction                       |
| 32  | 101012100001 | 2    | Decal-No fire                         |
| 33  | 215050000001 | 4    | Blind rivet 3×8-ZnD GB/T 12618.2      |
| 34  | 101012100010 | 1    | Decal-Electrocution hazard            |
| 35  | 101012100014 | 1    | Decal-Charging voltage                |

| No. | Part No.     | Qty. | Description         |
|-----|--------------|------|---------------------|
| 36  | 105030103003 | 1    | Nameplate-KCS(AB)   |
| 37  | 104009100022 | 1    | Decal-Hydraulic oil |



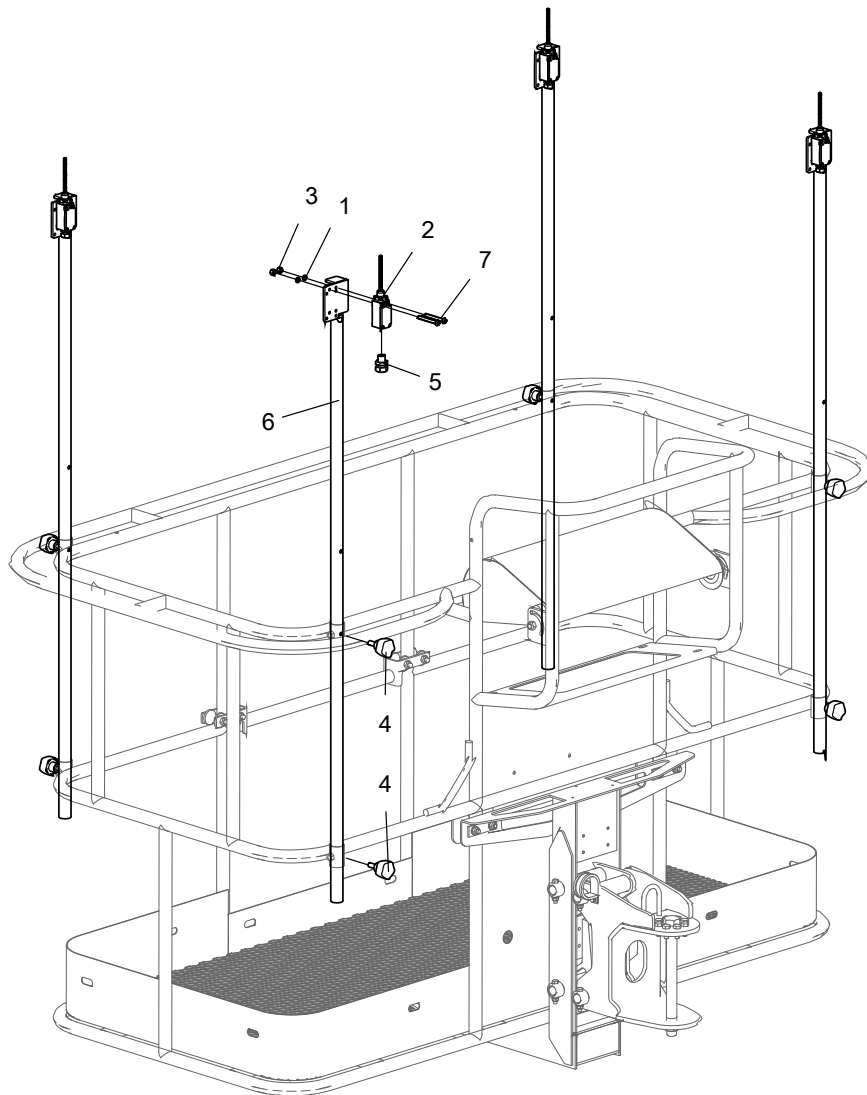
## **8 SPECIAL OPTIONS**

## 8.1 GPS INSTALLATION



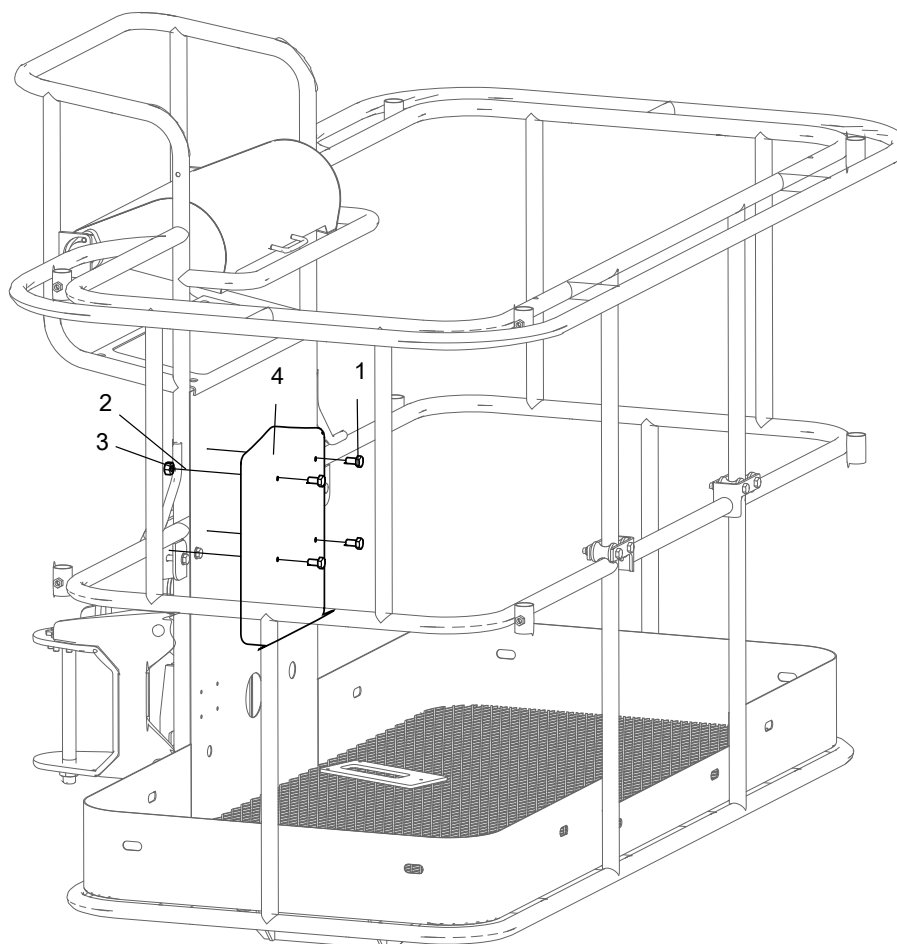
| No. | Part No.     | Qty. | Description                |
|-----|--------------|------|----------------------------|
| 1   | 203150003022 | 1    | GPS/LTE antenna(Not Shown) |
| 2   | 215040000033 | 2    | Washer 6-A2 GB/T 97.1      |
| 3   | 215020000118 | 2    | Screw M6×25-A2-70 GB/T 818 |
| 4   | 215040000004 | 2    | Washer 6-A2-70 GB/T 93     |
| 5   | 203150003021 | 1    | GPS module (4G)            |

## 8.2 OVERHEAD PROTECTION INSTALLATION



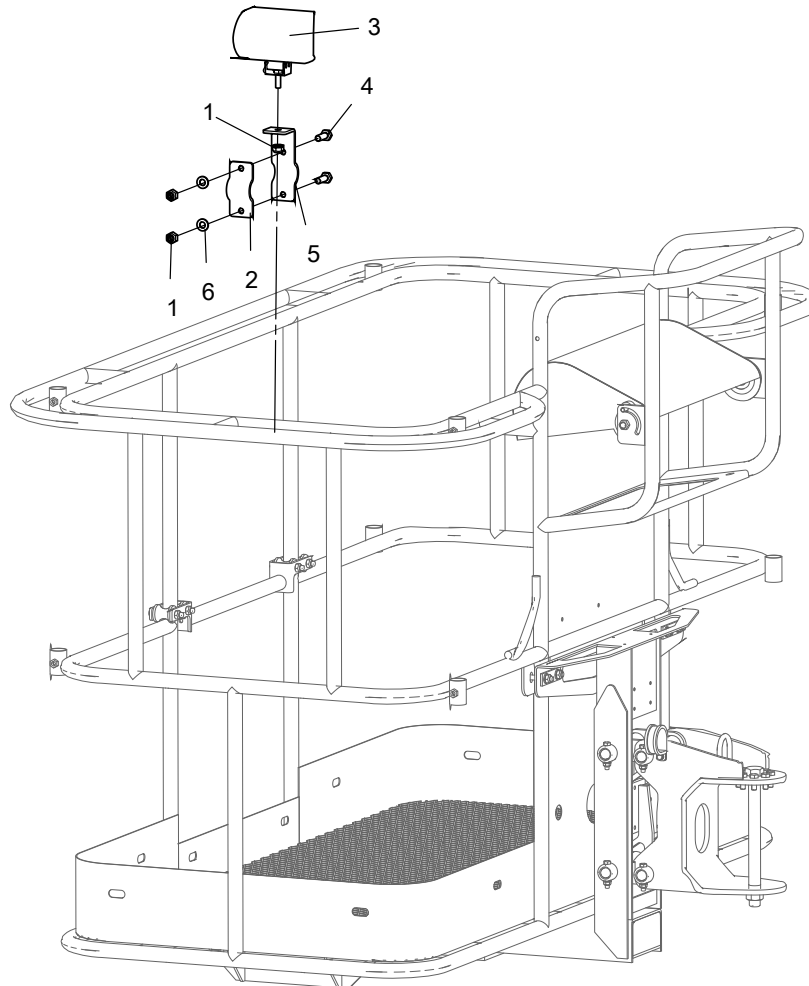
| No. | Part No.     | Qty. | Description                  |
|-----|--------------|------|------------------------------|
| 1   | 215040000003 | 8    | Washer 5-A2-70 GB/T 93       |
| 2   | 203060000056 | 4    | Travel switch                |
| 3   | 215030000003 | 8    | Nut M5-A2-70 GB/T 6170       |
| 4   | 209030000006 | 8    | Bolt, star-headed            |
| 5   | 203990000005 | 4    | Connector, waterproof, nylon |
| 6   | 105017060001 | 4    | Steel pipe, overhead         |
| 7   | 215020000215 | 8    | Screw M5×40-A2-70 GB/T 818   |

## 8.3 MANUAL STORAGE CONTAINER INSTALLATION



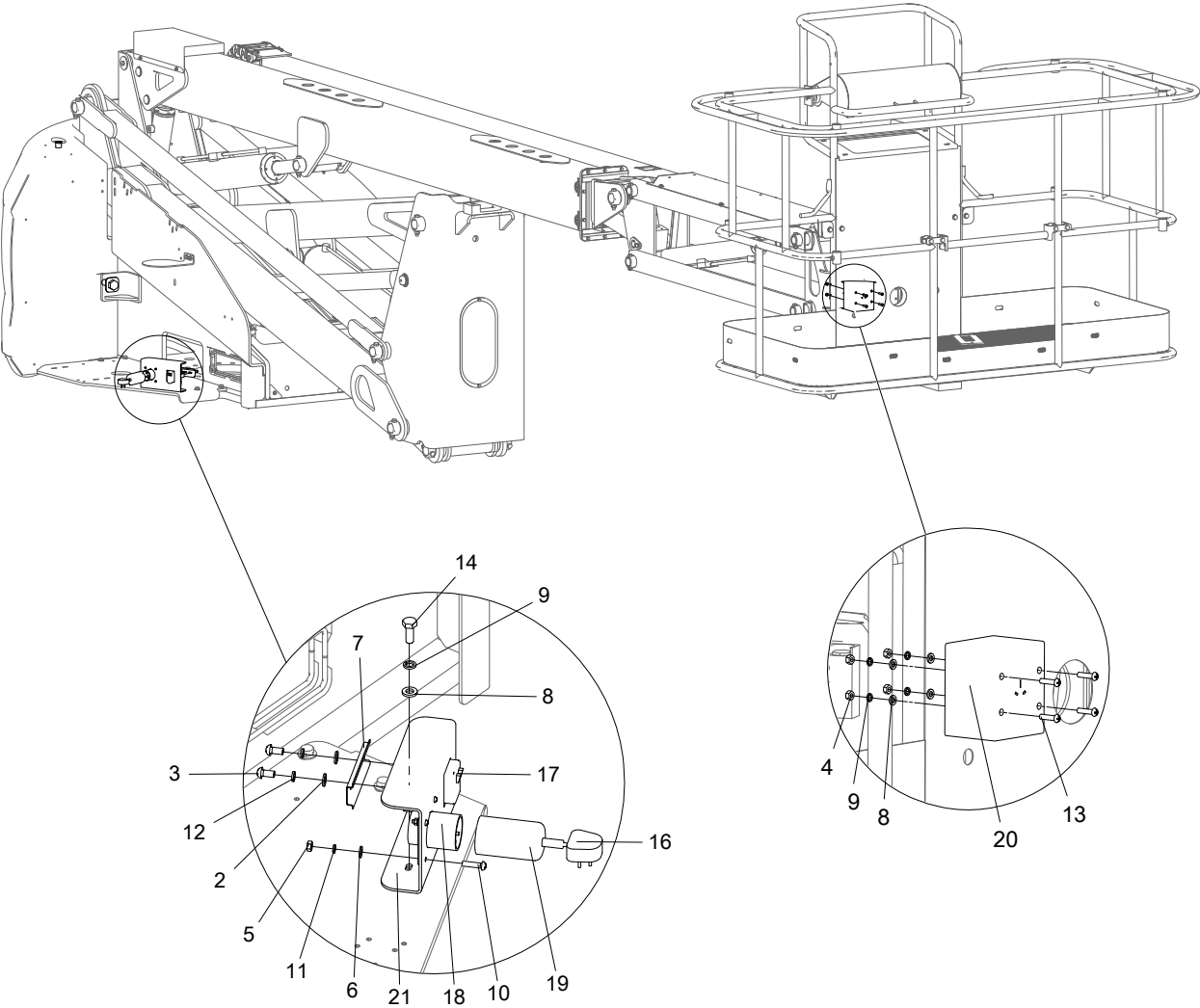
| No. | Part No.     | Qty. | Description                |
|-----|--------------|------|----------------------------|
| 0   | 103005040002 | 1    | Platform                   |
| 1   | 215010000049 | 4    | Bolt M6×12-A2-70 GB/T 5783 |
| 2   | 215040000004 | 4    | Washer 6-A2-70 GB/T 93     |
| 3   | 215030000004 | 4    | Nut M6-A2-70 GB/T 6170     |
| 4   | 216070000001 | 1    | Manual storage container   |

## 8.4 WORK LIGHT INSTALLATION



| No. | Part No.     | Qty. | Description                  |
|-----|--------------|------|------------------------------|
| 1   | 215030000026 | 3    | Nut M8-8-ZnD GB/T889.1       |
| 2   | 105017060067 | 1    | Plate                        |
| 3   | 203050000020 | 1    | Work Light, LED              |
| 4   | 215010000058 | 2    | Bolt M8x25-8.8-ZnD GB/T 5783 |
| 5   | 105017060066 | 1    | Plate                        |
| 6   | 215040000034 | 3    | Washer 8-200HV-ZnD GB/T 97.1 |

8.5 AC POWER INSTALLATION



| No.  | Part No.     | Qty. | Description                                                      |
|------|--------------|------|------------------------------------------------------------------|
| 1    | 103006060036 | 1    | Platform AC power harness(Not shown)                             |
| 2    | 215040000032 | 2    | Washer 5-A2 GB/T 97.1                                            |
| 3    | 215020000109 | 2    | Screw M5×10-A2-70 GB/T 818                                       |
| 4    | 215030000004 | 4    | Nut M6-A2-70 GB/T 6170                                           |
| 5    | 215030000002 | 4    | Nut M4-8-A2-70 GB/T 6170                                         |
| 6    | 215040000031 | 4    | Washer 4-A2 GB/T 97.1                                            |
| 7    | 203990000001 | 1    | Guiderail                                                        |
| 8    | 215040000033 | 6    | Washer 6-A2 GB/T 97.1                                            |
| 9    | 215040000004 | 6    | Washer 6-A2-70 GB/T 93                                           |
| 10   | 215020000106 | 4    | Screw M4×16-A2-70 GB/T 818                                       |
| 11   | 215040000002 | 4    | Washer 4-A2-70 GB/T 93                                           |
| 12   | 215040000003 | 2    | Washer 5-A2-70 GB/T 93                                           |
| 13   | 215020000118 | 4    | Screw M6×25-A2-70 GB/T 818                                       |
| 14   | 215010000050 | 2    | Bolt M6×16-A2-70 GB/T 5783                                       |
| 15   | 203230000754 | 1    | Drag chain cable(Not shown)                                      |
| 16   | 105017060063 |      | Charger plug (with cord) options                                 |
| 16-1 | 203080000176 | 1    | Charger cord and plug(Type B, American and South American specs) |
| 16-2 | 203080000173 | 1    | Charger cord and plug(Type M, Macao specs)                       |
| 16-3 | 203080000175 | 1    | Charger cord and plug(Type I, China and Australian specs)        |
| 16-4 | 203080000174 | 1    | Charger cord and plug(Type J, Swiss specs)                       |
| 16-5 | 203080000177 | 1    | Charger cord and plug( ype E+F , European and Brazilian specs)   |
| 16-6 | 203080000178 | 1    | Charger cord and plug(Type G, HongKong and Middle East specs)    |
| 17   | 203160000002 | 1    | RCBO                                                             |
| 18   | 203080000168 | 1    | Receptacle, WEIPU, 16A                                           |
| 19   | 203080000167 | 1    | Plug, WEIPU                                                      |
| 20   | 203080000249 | 1    | Socket, waterproof                                               |
| 21   | 105017060058 | 1    | Bracket, RCBO                                                    |

# Always for Better Access Solutions



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