

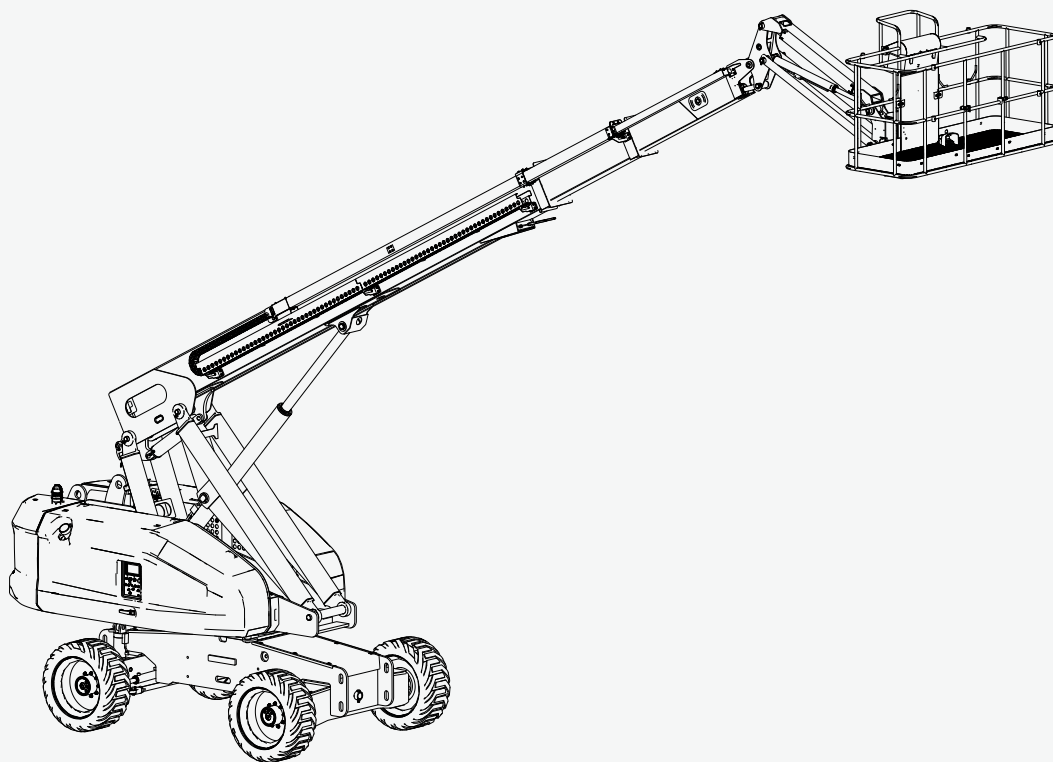
Part No.505050120012

Rev: A

Jul 2022

Parts Manual

**TB20J Plus/TB660J Plus
(with Hydraulic Generator)**



AS/NZS  

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. For disposal, please follow your nation regulation.

Manual revision history :

REV	DATE	DESCRIPTION	REMARK
A	Jul, 2022	Original issue of the manual	

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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 of the *Operation Manual* for details.)

MODELS	Trade identification		SERIAL NO.
	Metric	Imperial	
TB20J Plus	TB20J Plus	TB660J Plus	From 0505000155 to present (with hydraulic generator)

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 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.

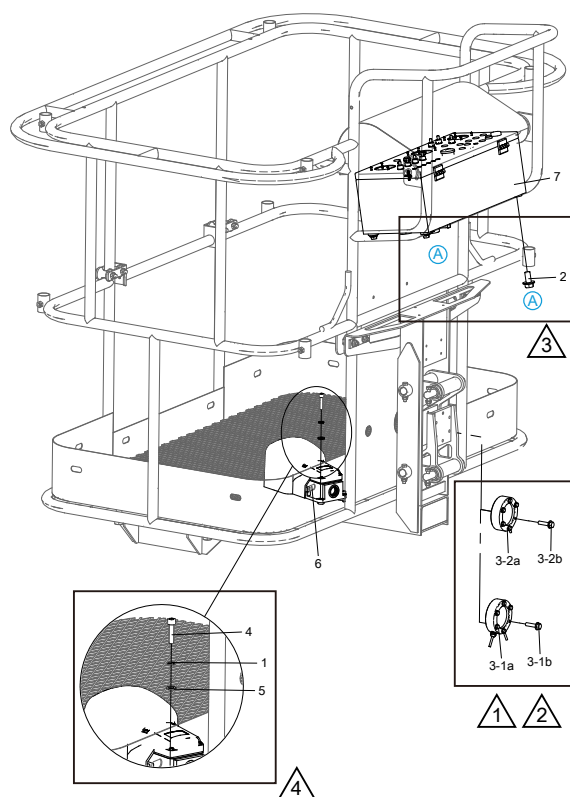
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GENERAL INFORMATION



No.	Part No.	Qty.	Description
1	215040000004	3	Washer 6-A2-70 GB/T 93
2	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789
3	10300600034		Options, Load sensor
3-1	10300600026	1	Load sensor installation
3-1a	203150000070	1	Load sensor
3-1b	215010000232	6	Bolt M6×25-8.8-ZnD GB/T 5789
3-2	10300600029	1	Load sensor installation
3-2a	203150000069	1	Load sensor
3-2b	215010000232	6	Bolt M6×25-8.8-ZnD GB/T 5789
4	215020000013	3	Screw M6×25-A2-70 GB/T 70.1
5	215040000033	3	Washer 6-A2 GB/T 97.1
6	203060000009	1	Footswitch
6	105002040001	1	Platform control box assembly

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 3-1 and 3-2 according to specific needs.



Add "lowercase a, b, c..." after the number to indicate by a variety of components, such as 1a and 1b composition 1.



"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.

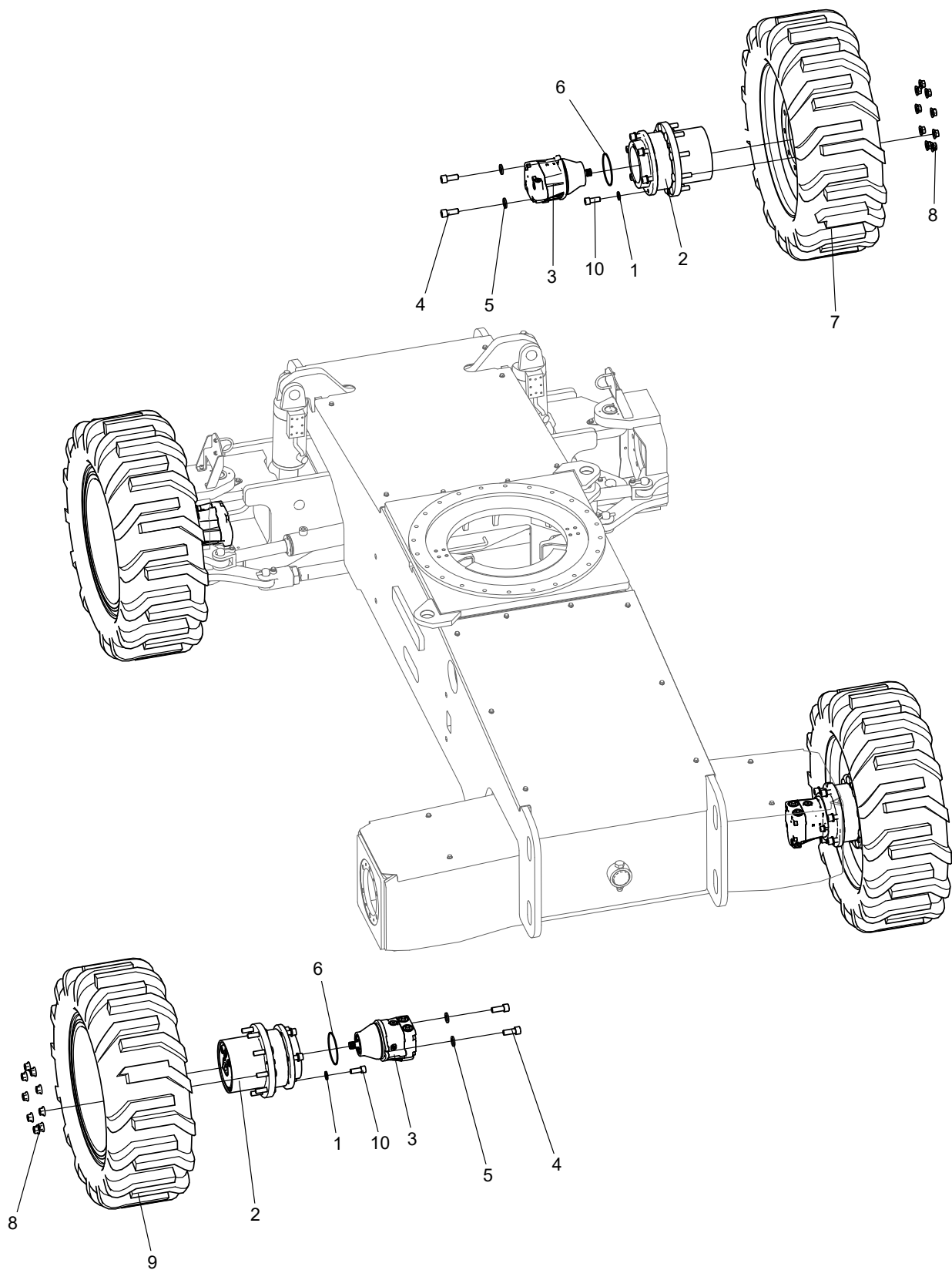
Consider this manual a part of the machine, along with *Operation Manual* and *Maintenance Manual*, and always keep the manuals with the machine. The owner or administrator of the machine shall offer all manuals and other necessary information provided by the machine manufacturer regarding the daily 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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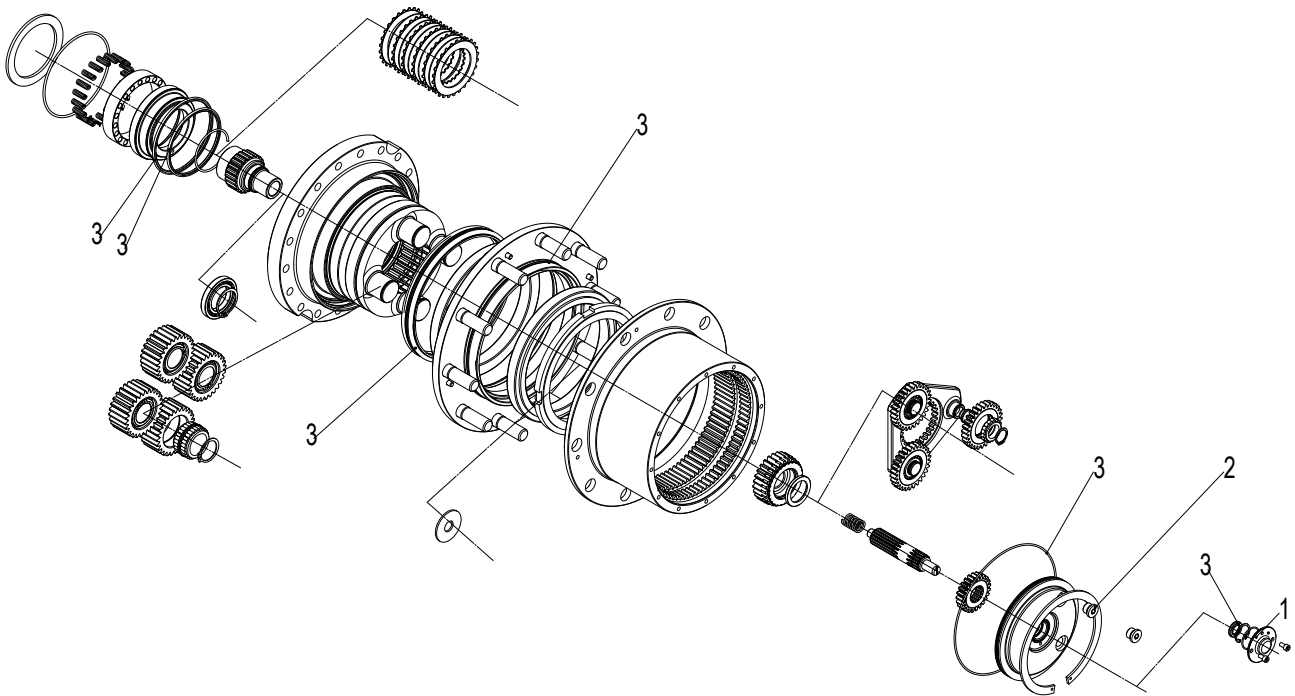
1 CHASSIS COMPONENTS

1.1 DRIVE SYSTEM



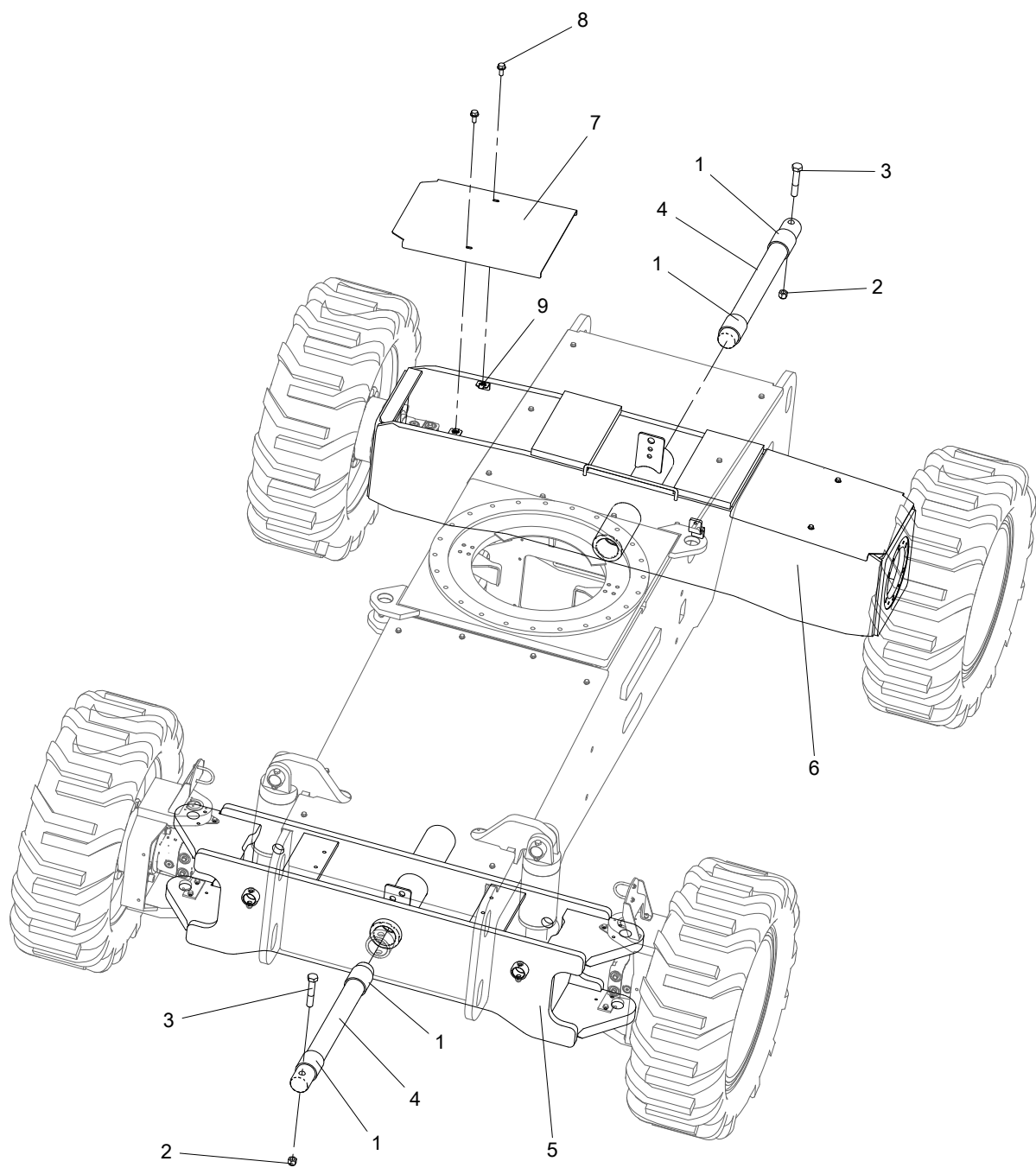
No.	Part No.	Qty.	Description
1	215040000039	24	Washer 16-200HV-ZnD GB/T 97.1
2	204020000026	4	Reducer
3	202020000024	4	Drive motor
3a	207990003104	1	Seal kit, drive motor
4	215020000074	8	Screw M12×30-10.9-DKL GB/T 70.1
5	215040000051	8	Washer 12 GB/T 1230
6	207040000058	4	O-ring
7	103008030007		Right tire options
7-1	103008030001	2	Tire assembly, right(36*14-20/7.50V-20)
7-2	103008030003	2	Right tire assembly, non-marking(36*14-20/7.50V-20)
7-3	103008030008	2	Tire assembly, foam-filled, right (355/55D625)
7-4	103008033049	2	Right tire and wheel assembly, non-marking, foam filled(355/55D625)
8	215080000028	36	Nut 5/8"-18UNF
9	103008030006		Left tire options
9-1	103008030002	2	Tire assembly, left(36*14-20/7.50V-20)
9-2	103008030004	2	Left non-marking tire assembly("36*14-20/7.50V-20)
9-4	103008033050	2	Left tire and wheel assembly, non-marking, foam filled(355/55D625)
9-3	103008030037	2	Tire assembly, foam-filled, left(355/55D625)
10	215020000082	24	Screw M16×40-8.8-ZnD GB/T 70.1

1.2 DRIVE REDUCER, DC (PN.204020000026)



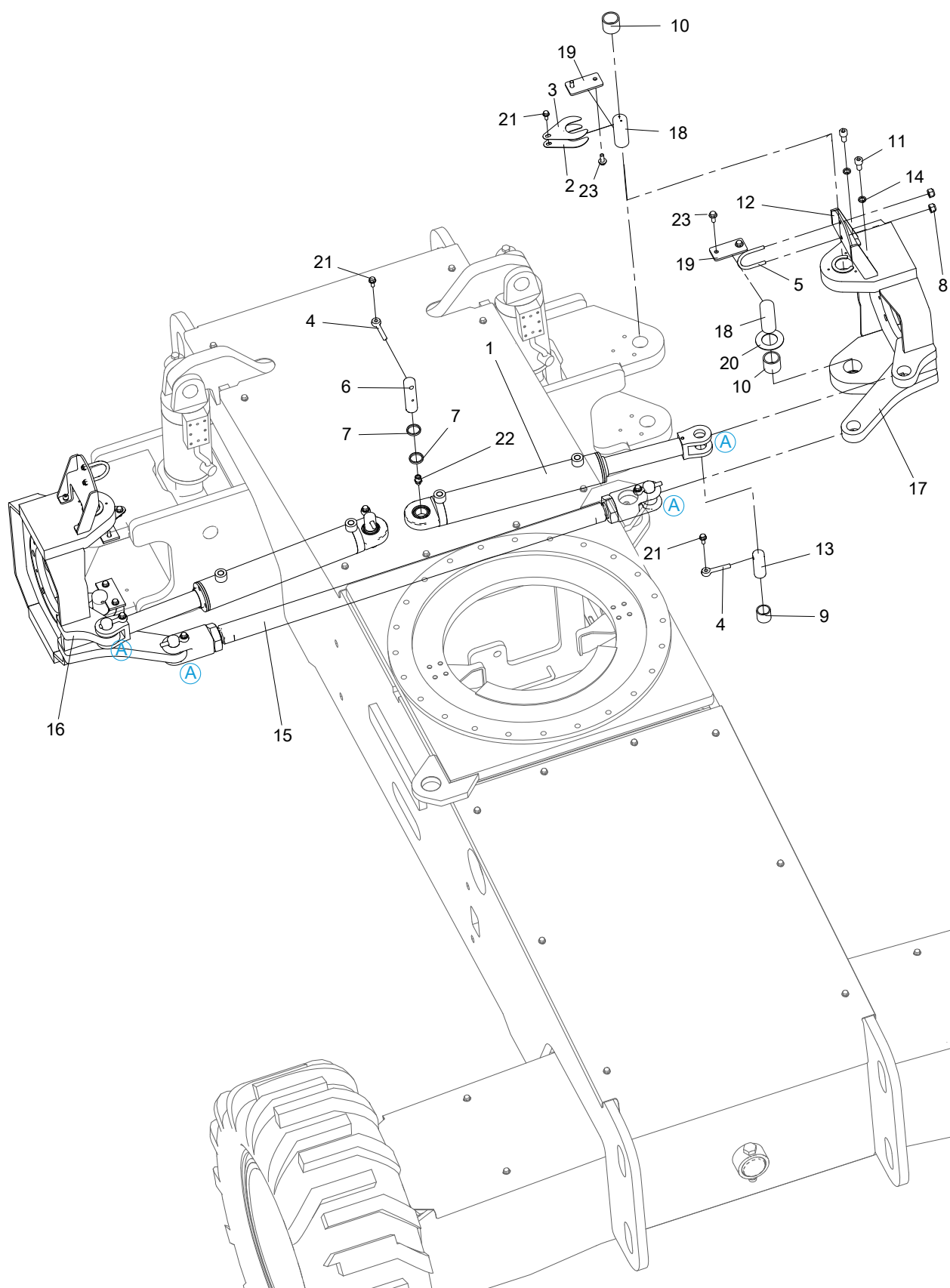
No.	Part No.	Qty.	Description
1	201990003020	1	End cap, small
2	207080003000	2	Oil plug
3	207060003012	1	Seal kit

1.3 OUTRIGGER INSTALLATION



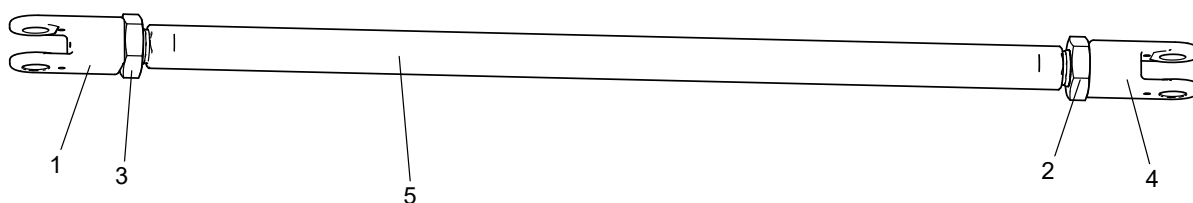
No.	Part No.	Qty.	Description
1	214030000071	4	Bearing, self-lubricating
2	215030000098	2	Nut M20-8-ZnD GB/T889.1
3	215010000219	2	Bolt M20×110-8.8-ZnD GB/T 5782
4	105001030043	2	Pin XGΦ65-695
5	103008030044	1	Front stationary outrigger assembly
6	105051030002	1	Rear outrigger
7	103008030032	2	Cover, small
8	215010000234	4	Bolt M8×20-8.8-ZnD GB/T 5789
9	215030000106	4	B type spring nuts

1.4 STEER SYSTEM



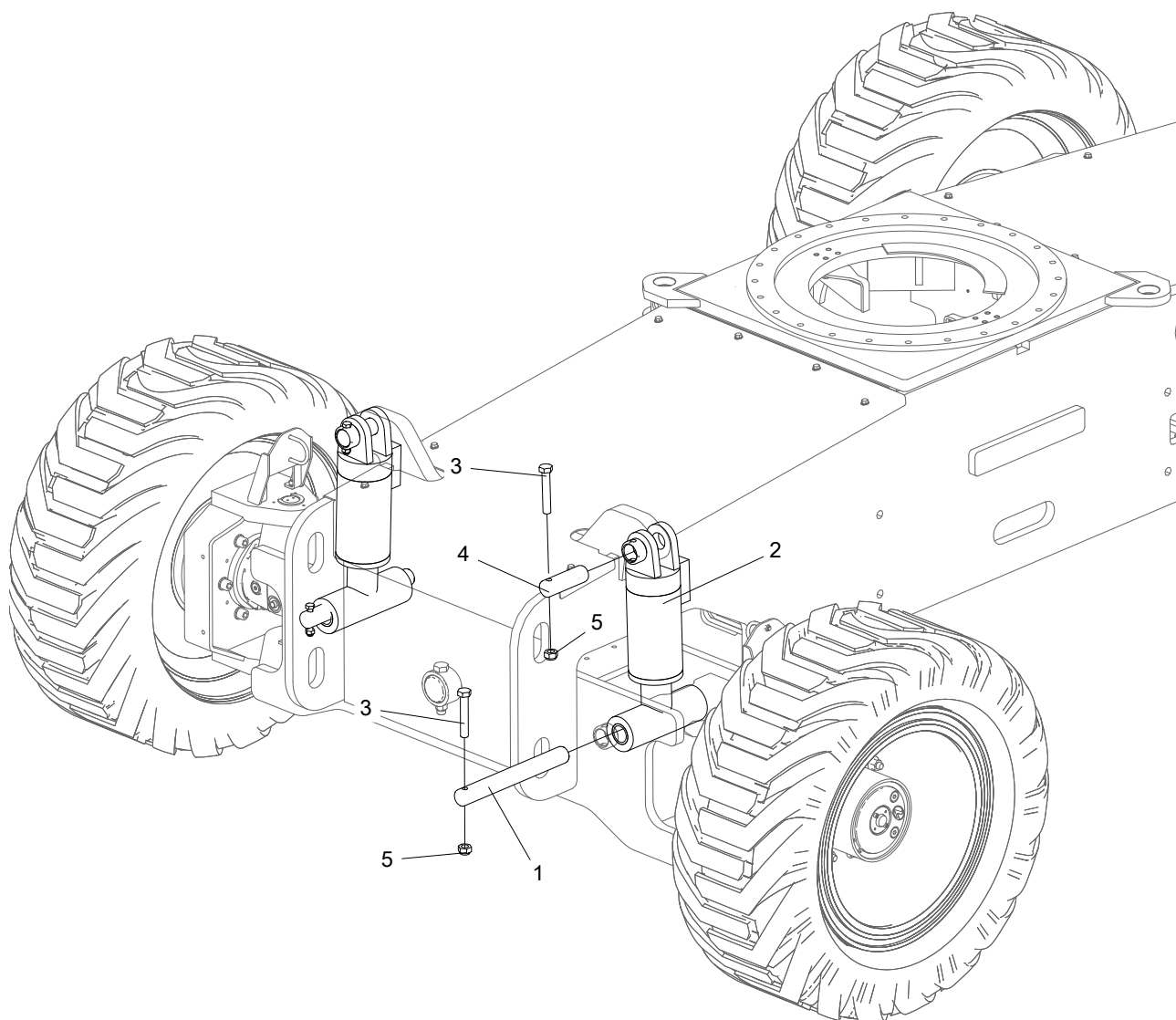
No.	Part No.	Qty.	Description
1	103008030070	2	Steer cylinder(A)
1a-1	207990003013	1	Seal kit, steer cylinder(1000215)
1a-2	207990003152	1	Seal kit, cylinder(1000145)
1a-3	207990003086	1	Seal kit , cylinder(1000026)
2	103008033000	2	Shim
3	103008033001	2	Shim
4	101012010044	6	Keeper pin
5	104016020023	2	U-clamp
6	105001030055	2	Pin XGΦ30-105
7	105001030034	4	Sleeve
8	215030000026	4	Nut M8-8-ZnD GB/T889.1
9	214030000006	4	Bearing, self-lubricating
10	214030000053	4	Bearing, self-lubricating
11	215020000022	4	Screw M8×16-8.8-ZnD GB/T 70.1
12	104021030002	2	Tube support
13	105001030060	4	Pin XGΦ30-80
14	215040000005	4	Washer 8-ZnD GB/T 93
15	103008030072	1	Steer linkage(See the Steer Link section)
16	105051030004	1	Steer disc, left
17	105051030003	1	Connection disc, steer right
18	103008033056	4	Pin XGΦ40-100[Z]
19	103008033055	4	Clamp board
20	105001030054	2	Washer
21	215010000234	8	Bolt M8×20-8.8-ZnD GB/T 5789
22	207010000003	2	Grease nipple M10×1 GB/T 1152
23	215010000238	8	Bolt M10×25-8.8-ZnD GB/T 5789

1.5 STEER LINKAGE



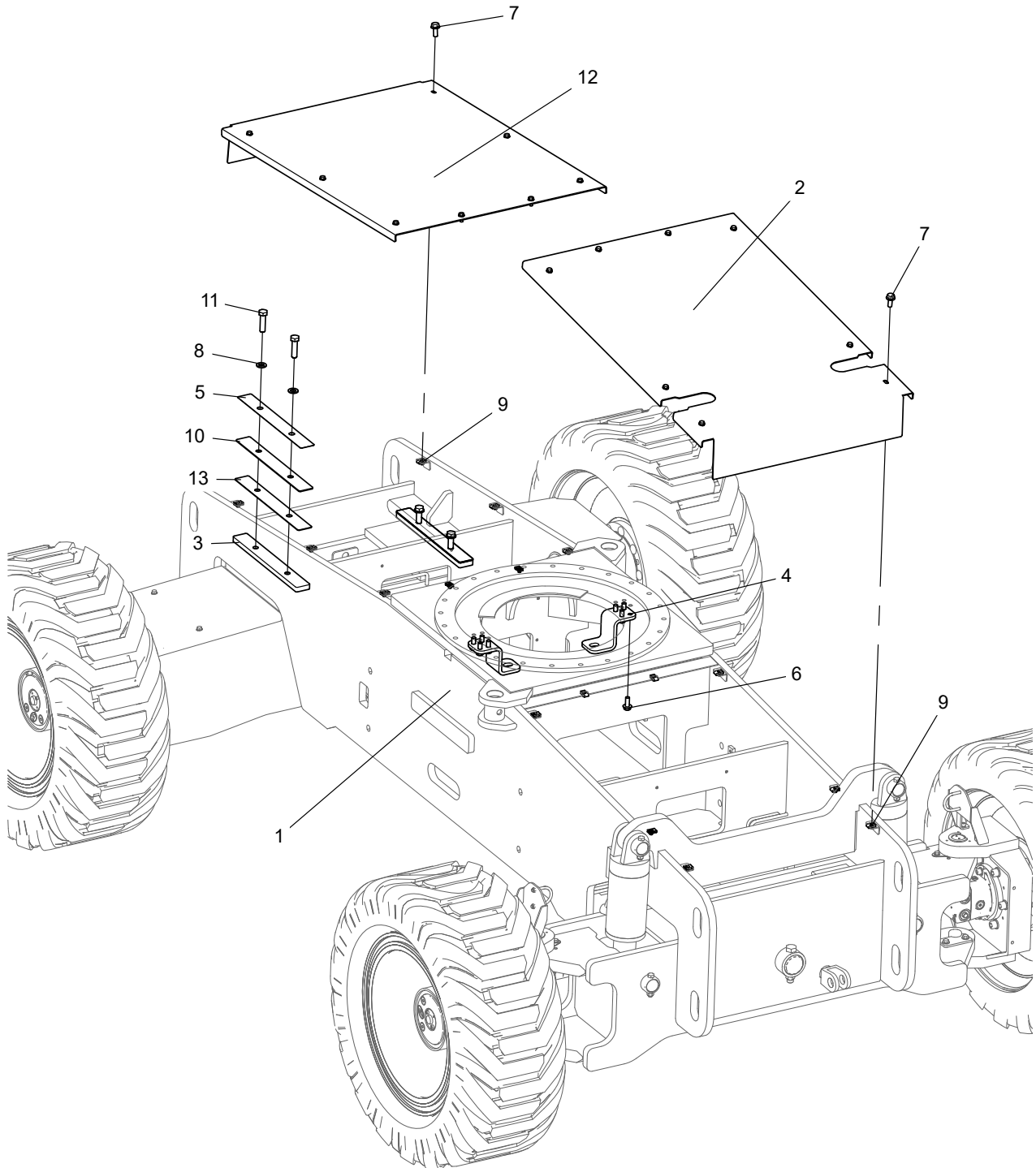
No.	Part No.	Qty.	Description
1	105001030041	1	Mounting head I
2	215030000065	1	Nut M42×2-8 GB/T 6173
3	215030000066	1	Nut M42*2(left)-8 GB/T6173-2000
4	105001030047	1	Mounting head II
5	103008030058	1	Connecting rod

1.6 OSCILLATE CYLINDER INSTALLATION



No.	Part No.	Qty.	Description
1	103008030060	2	Pin XGΦ40-340
2	105001030077	2	Oscillate cylinder(B)
2a-1	207990003012	1	Seal kit, Oscillate cylinder(1000215)
2a-2	207990003126	1	Seal kit , cylinder(1000026)
3	215010000106	4	Bolt M12×70-8.8-ZnD GB/T 5783
4	104008030005	2	Pin XGΦ40-125
5	215030000029	4	Nut M12-8-ZnD GB/T 889.1

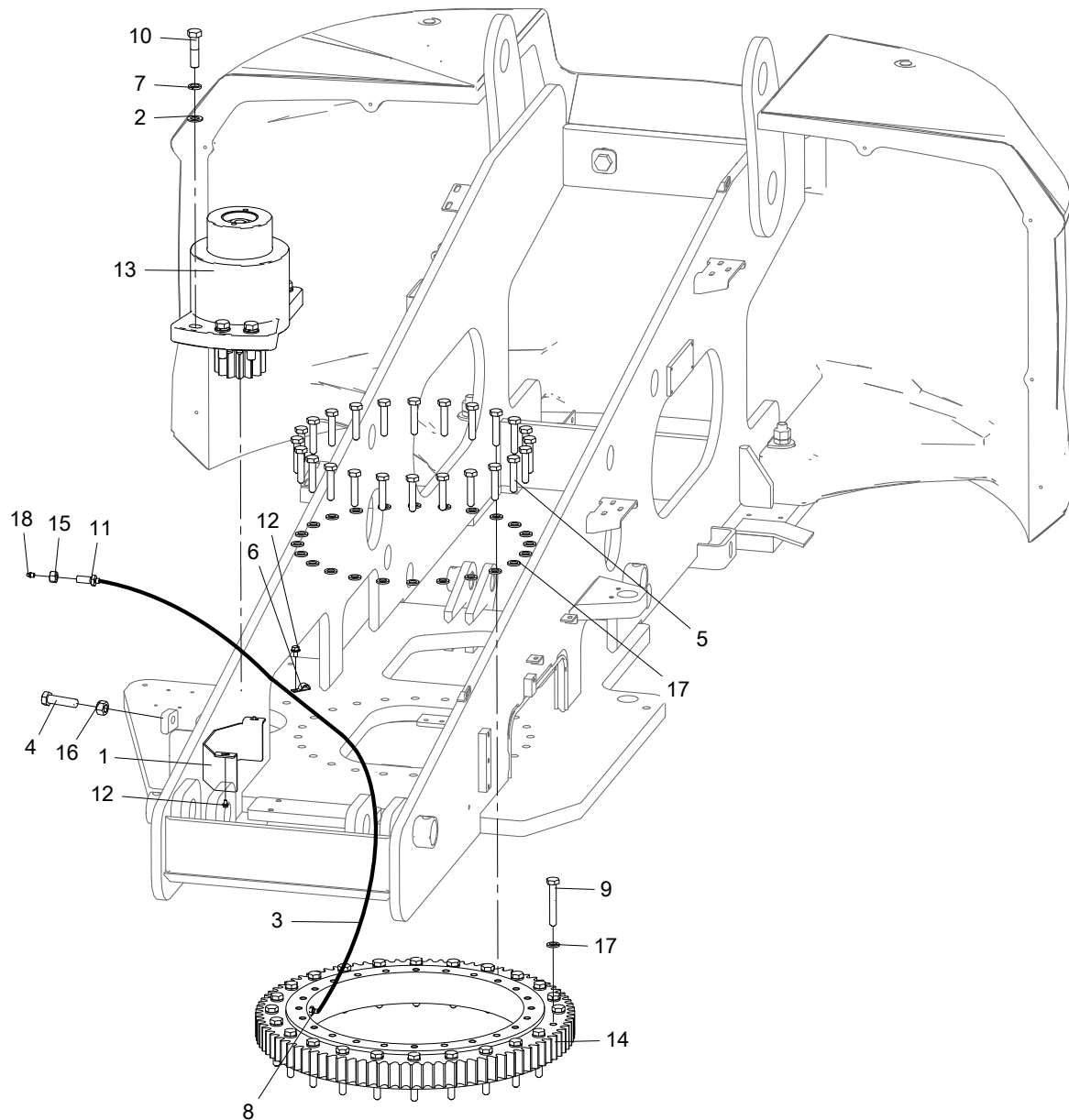
1.7 CHASSIS SHIELD INSTALLATION



No.	Part No.	Qty.	Description
1	103008030015	1	Chassis
2	103008030029	1	Cover
3	105031030026	2	Support plate
4	105049033000	2	Bracket, hydraulic rotary coupler
5	105031030011	2	Adjusting pad
6	215010000261	8	Bolt M12×30-10.9 DKL GB/T 5789
7	215010000234	16	Bolt M8×20-8.8-ZnD GB/T 5789
8	215040000039	4	Washer 16-200HV-ZnD GB/T 97.1
9	215030000106	16	B type spring nuts
10	103008033057	2	Adjusting pad
11	215010000118	4	Bolt M16×60-10.9-DKL GB/T 5783
12	103008030045	1	Cover
13	105031030013	2	Adjusting pad

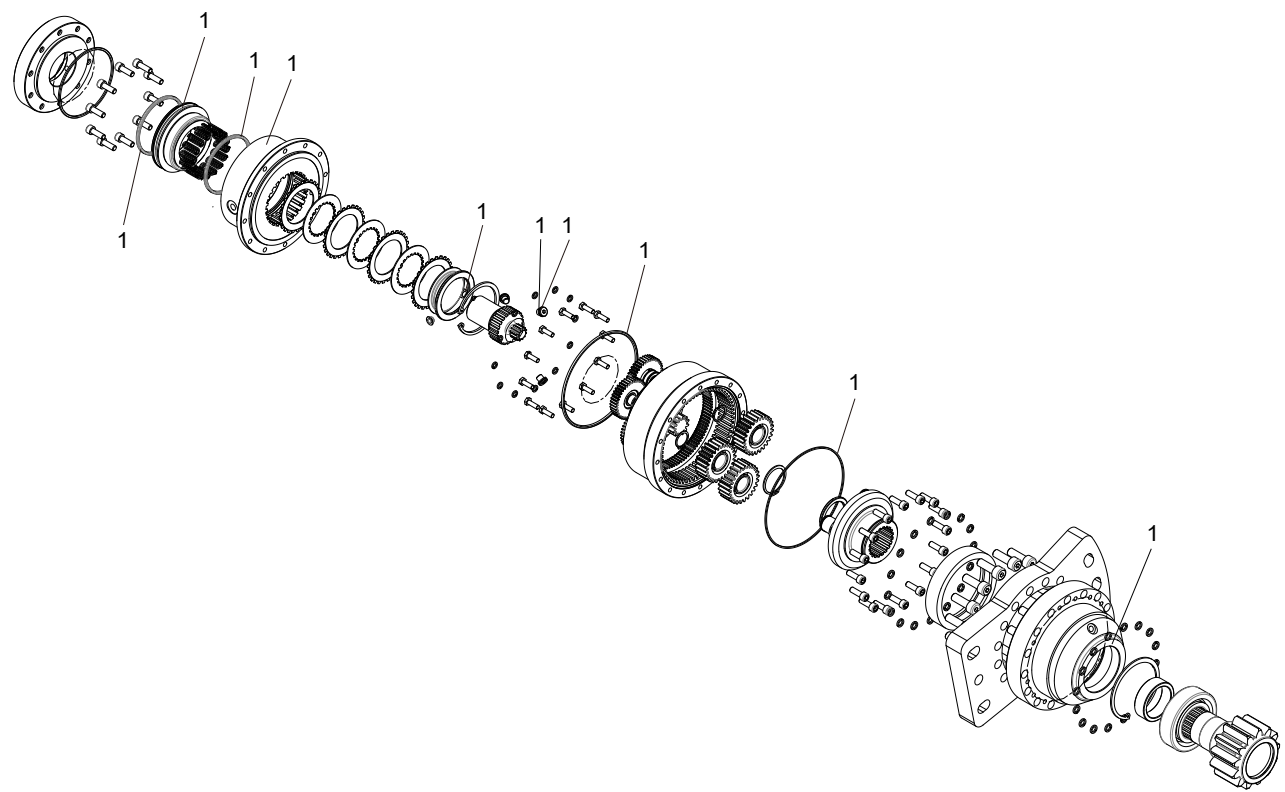
2 TURNTABLE COMPONENTS

2.1 SWING DRIVE INSTALLATION



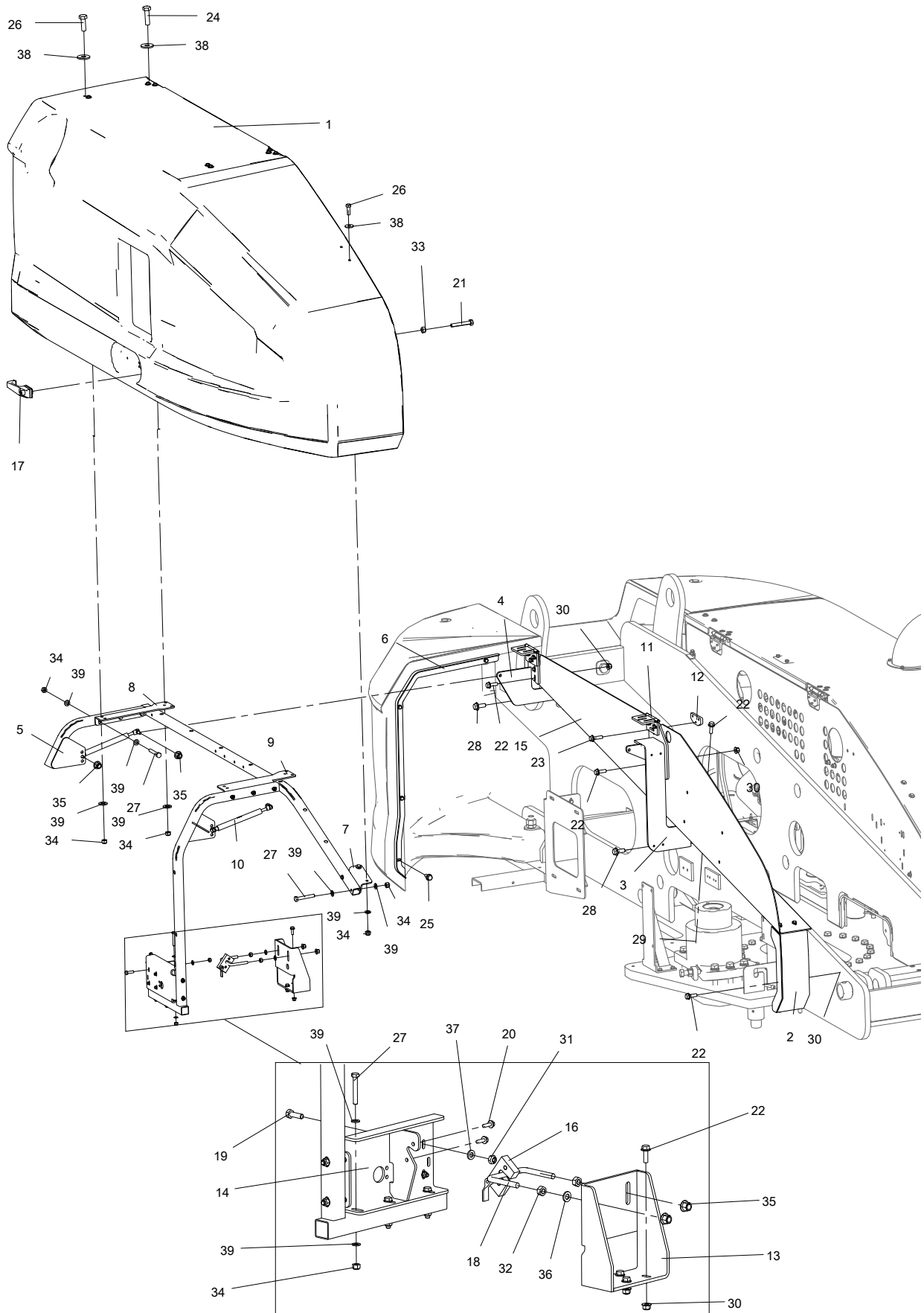
No.	Part No.	Qty.	Description
1	103008023105	1	Channel plate
2	105032023010	6	Pad
3	213050000698	1	Hose
4	215010000210	1	Bolt M20×75-8.8-ZND-GB/T 5783
5	215010000151	24	Bolt M16×80-10.9-DKL GB/T 1228
6	203080000275	1	Line clip, pvc dipping
7	207010000003	1	Grease nipple M10×1 GB/T 1152
8	213010000060	1	Fitting
9	215010000153	24	Bolt M16×110-10.9-DKL GB/T 1228
10	215010000027	6	Bolt M20×80-8.8-ZnD GB/T 5782
11	105001020225	1	Fitting
12	215010000229	3	Bolt M6×10-8.8-ZnD GB/T 5789
13	204020000002	1	Slewing reducer
13a	207060003009	1	Seal kit, slewing reducr
14	204120000001	1	Slewing bearing
15	215030000010	1	Nut M16-8-ZnD GB/T 6170
16	215030000012	1	Nut M20-8-ZnD GB/T 6170
17	215040000052	48	Washer 16 GB/T 1230

2.2 SLEWING REDUCER(PN.204020000002)



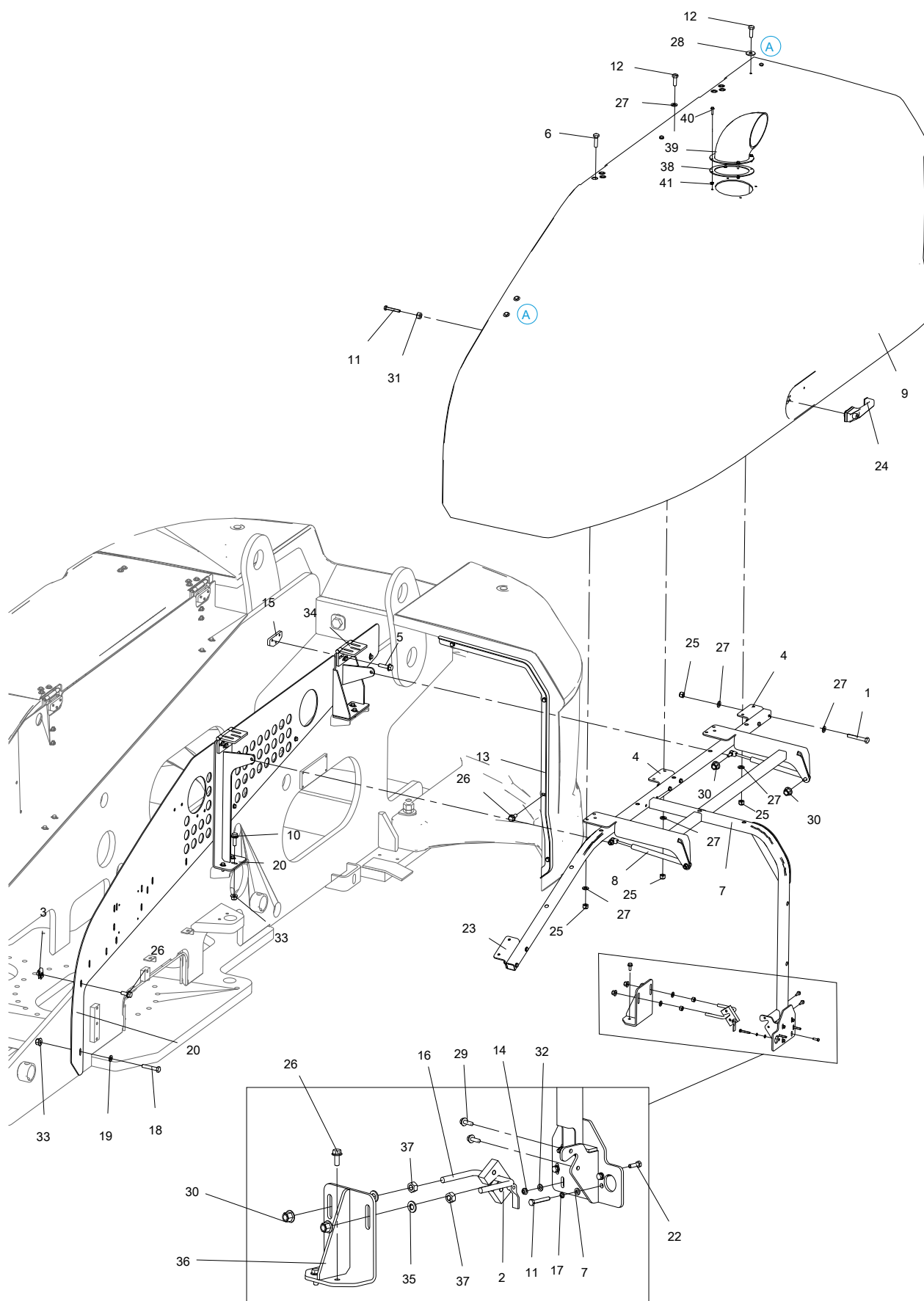
No.	Part No.	Qty.	Description
1	207060003009	1	Seal kit, slewing reducr

2.3 TURNTABLE LEFT HOODS INSTALLATION



No.	Part No.	Qty.	Description
1	105029020003	1	Turntable cover, LH
2	105025023215	1	Seal plate, turntable cover
3	105029020062	1	Bracket
4	105029020023	1	Bracket
5	105029020040	1	Steel frame, left
6	105029020020	1	Bracket, left
7	104021020048	1	Bracket
8	105029020042	1	Mounting plate, hinge
9	105029020051	1	Mounting plate, hinge
10	210010000063	2	Gas strut
11	105001020118	2	Hinge
12	105021020162	2	Mounting plate
13	105026023019	1	Bracket
14	105029020065	1	Bracket
15	105025023021	1	Plate, bending
16	209050000003	1	Latch, left
17	209030000009	1	Latch handle
18	105021020163	1	U-bolt
19	215010000051	4	Bolt M6×20-A2-70 GB/T 5783
20	215010000231	2	Bolt M6×20-8.8-ZnD GB/T 5789
21	215010000054	1	Bolt M6×40-A2-70 GB/T 5783
22	215010000235	15	Bolt M8×25-8.8-ZnD GB/T 5789
23	215010000236	6	Bolt M8×30-8.8-ZnD GB/T 5789
24	215010000059	6	Bolt M8×30-8.8-ZnD GB/T 5783
25	215010000234	4	Bolt M8×20-8.8-ZnD GB/T 5789
26	215010000058	6	Bolt M8×25-8.8-ZnD GB/T 5783
27	215010000064	13	Bolt M8×55-8.8-ZnD GB/T 5783
28	215010000238	5	Bolt M10×25-8.8-ZnD GB/T 5789
29	215030000106	6	B type spring nuts
30	215030000108	9	Nut M8-8-ZnD GB/T 6183
31	215030000025	4	Nut M6-8-A2-70 GB/T 889.1
32	215030000006	2	Nut M10-8-ZnD GB/T 6170
33	215030000004	1	Nut M6-A2-70 GB/T 6170
34	215030000026	25	Nut M8-8-ZnD GB/T889.1
35	215030000109	6	Nut M10-8-ZnD GB/T 6183
36	215040000035	2	Washer 10-200HV-ZnD GB/T 97.1
37	215040000033	4	Washer 6-A2 GB/T 97.1
38	215040000015	12	Washer 8-200HV-ZnD GB/T 96.1

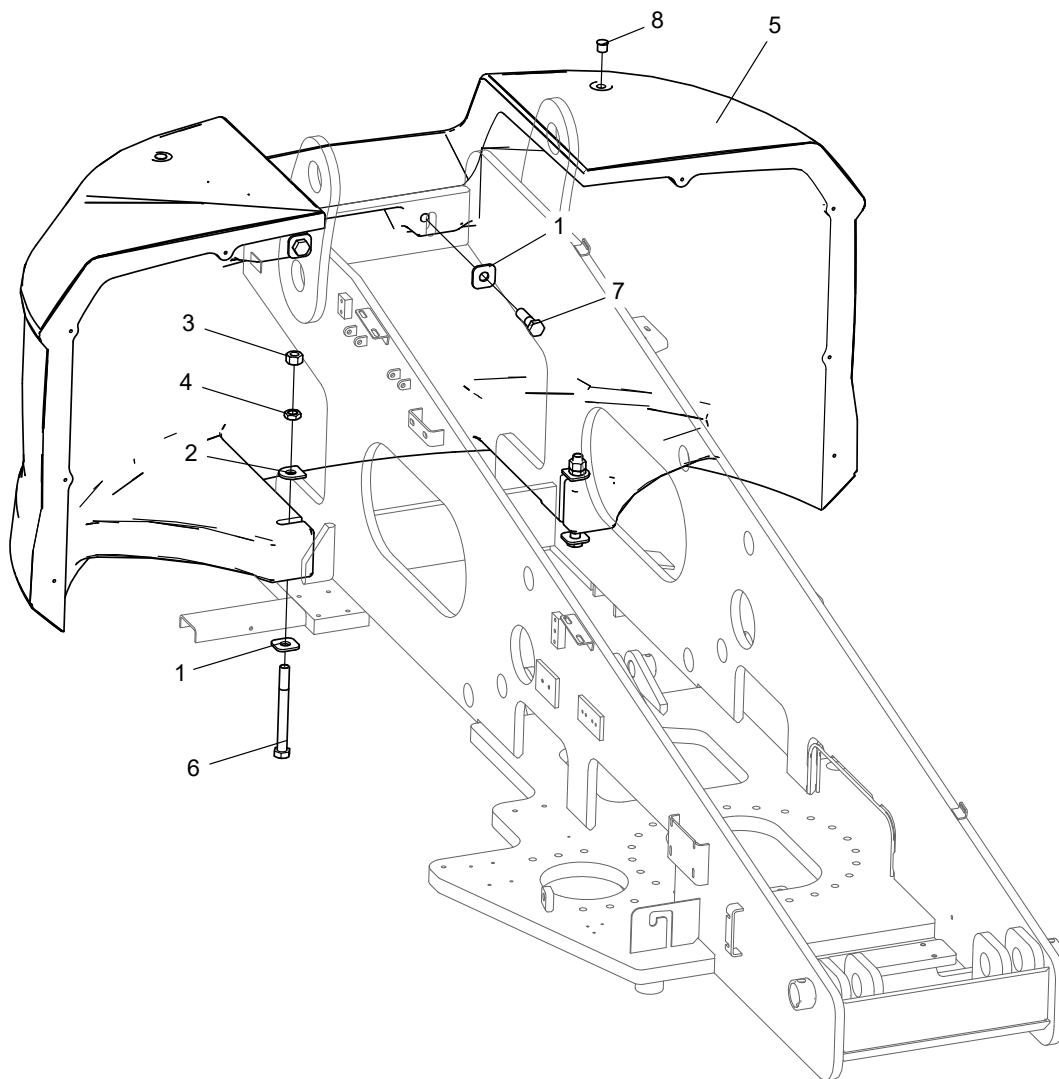
No.	Part No.	Qty.	Description
39	215040000034	38	Washer 8-200HV-ZnD GB/T 97.1



No.	Part No.	Qty.	Description
1	215010000064	6	Bolt M8×55-8.8-ZnD GB/T 5783
2	209050000002	1	Latch, right
3	215030000106	4	B type spring nuts
4	105029020064	2	Bracket
5	215010000236	6	Bolt M8×30-8.8-ZnD GB/T 5789
6	215010000059	6	Bolt M8×30-8.8-ZnD GB/T 5783
7	105029020044	1	Bracket
8	210010000060	2	Gas strut
9	105029020001	1	Turntable cover, right
10	215010000235	6	Bolt M8×25-8.8-ZnD GB/T 5789
11	215010000054	4	Bolt M6×40-A2-70 GB/T 5783
12	215010000058	6	Bolt M8×25-8.8-ZnD GB/T 5783
13	105029020024	1	Bracket, right
14	215030000025	4	Nut M6-8-A2-70 GB/T 889.1
15	105021020162	2	Mounting plate
16	105021020163	1	U-bolt
17	215040000004	3	Washer 6-A2-70 GB/T 93
18	215010000062	1	Bolt M8×45-8.8-ZnD GB/T 5783
19	215040000034	1	Washer 8-200HV-ZnD GB/T 97.1
20	105025023279	1	Side plate
21	215040000033	3	Washer 6-A2 GB/T 97.1
22	215010000051	4	Bolt M6×20-A2-70 GB/T 5783
23	104021020048	1	Bracket
24	209030000009	1	Latch handle
25	215030000026	18	Nut M8-8-ZnD GB/T889.1
26	215010000234	10	Bolt M8×20-8.8-ZnD GB/T 5789
27	215040000034	26	Washer 8-200HV-ZnD GB/T 97.1
28	215040000015	4	Washer 8-200HV-ZnD GB/T 96.1
29	215010000231	2	Bolt M6×20-8.8-ZnD GB/T 5789
30	215030000109	6	Nut M10-8-ZnD GB/T 6183
31	215030000004	1	Nut M6-A2-70 GB/T 6170
32	215040000033	4	Washer 6-A2 GB/T 97.1
33	215030000108	7	Nut M8-8-ZnD GB/T 6183
34	105001020118	2	Hinge
35	215040000035	2	Washer 10-200HV-ZnD GB/T 97.1
36	105052023141	1	Bracket
37	215030000006	2	Nut M10-8-ZnD GB/T 6170
38	105038020018	1	Bottom plate

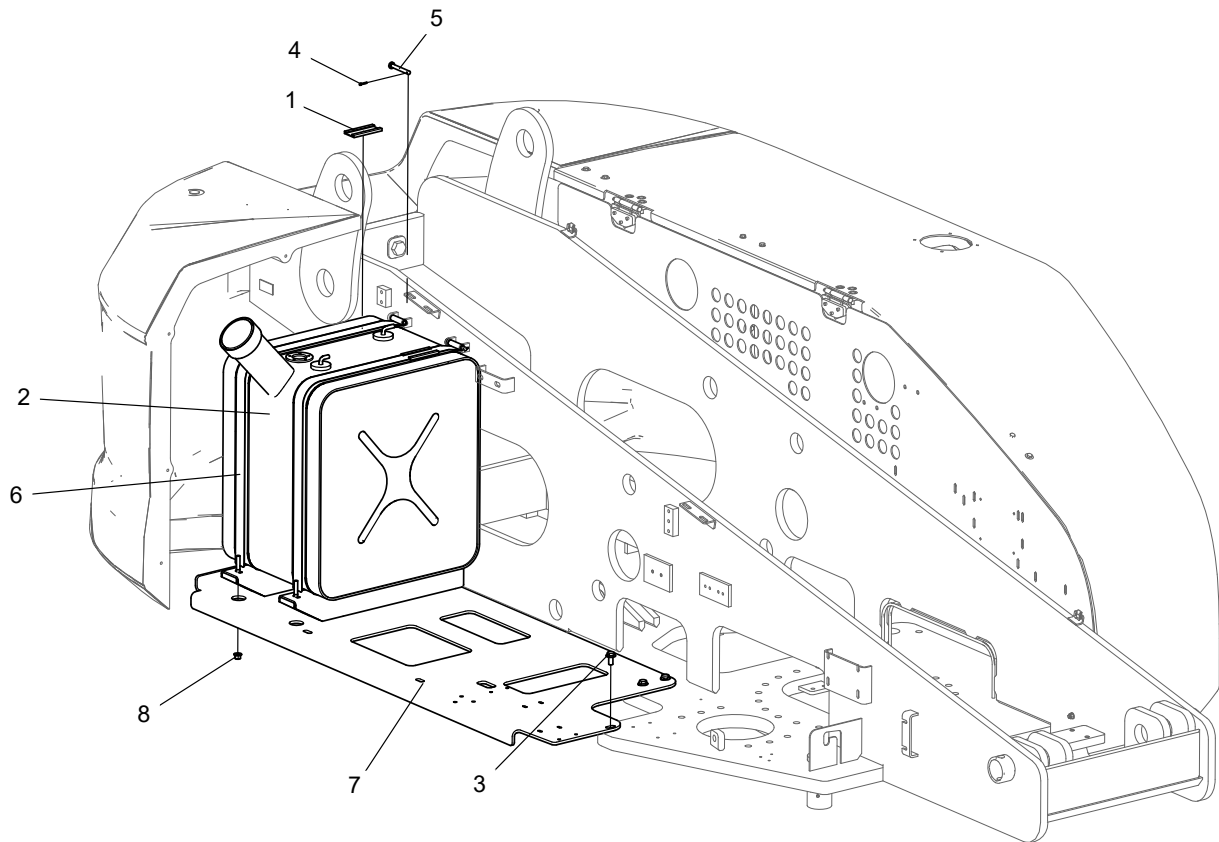
No.	Part No.	Qty.	Description
39	105038020045	1	Weldment, exhaust elbow
40	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
41	215030000107	4	Nut M6-8-ZnD GB/T 6183

2.5 COUNTERWEIGHT INSTALLATION



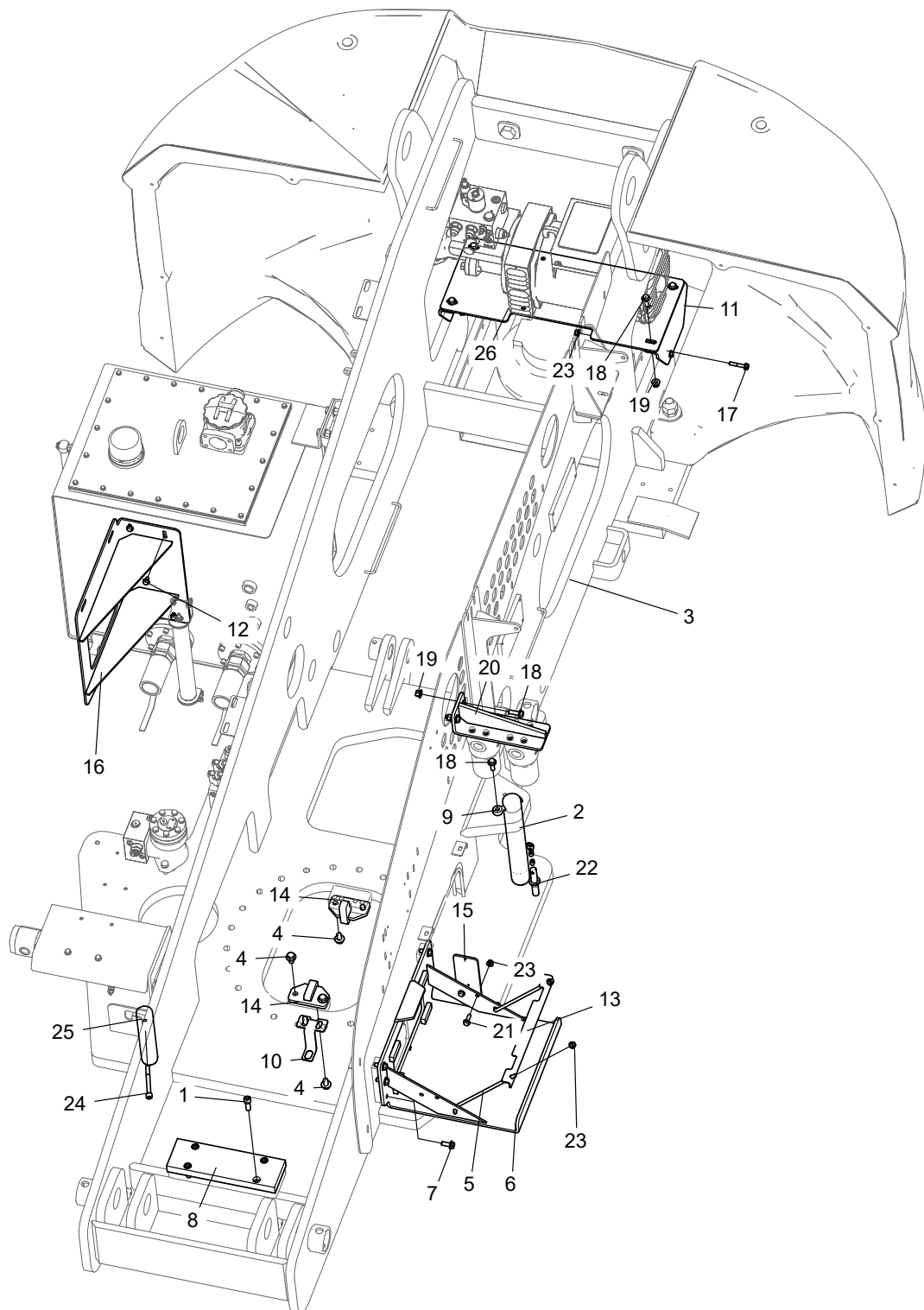
No.	Part No.	Qty.	Description
1	105001020138	4	Pad
2	105001020137	2	Pad
3	215030000014	2	Nut M24-8-ZnD GB/T 6170
4	215030000021	2	Nut M24-8-ZnD GB/T 6172.1
5	105029020002	1	Counterweight
6	215010000165	2	Bolt M24×230-8.8-ZnD GB/T 5782
7	215010000030	2	Bolt M24×90-8.8-ZnD GB/T 5782
8	213060003001	2	Choke plug

2.6 FUEL TANK INSTALLATION



No.	Part No.	Qty.	Description
1	216030000023	4	Clamp, double U type
2	105001020142	1	Fuel tank
3	215010000242	7	Bolt M12×25-8.8-ZnD GB/T 5789
4	215060000003	2	Pin 3.2×16-ZnD GB/T 91
5	215060000030	2	Pin B10×80-ZnD GB/T 882
6	105001020148	2	Mounting strap
7	105025023234	1	Bottom plate, oil tank
8	215030000109	2	Nut M10-8-ZnD GB/T 6183

2.7 TURNTABLE SHIELD INSTALLATION

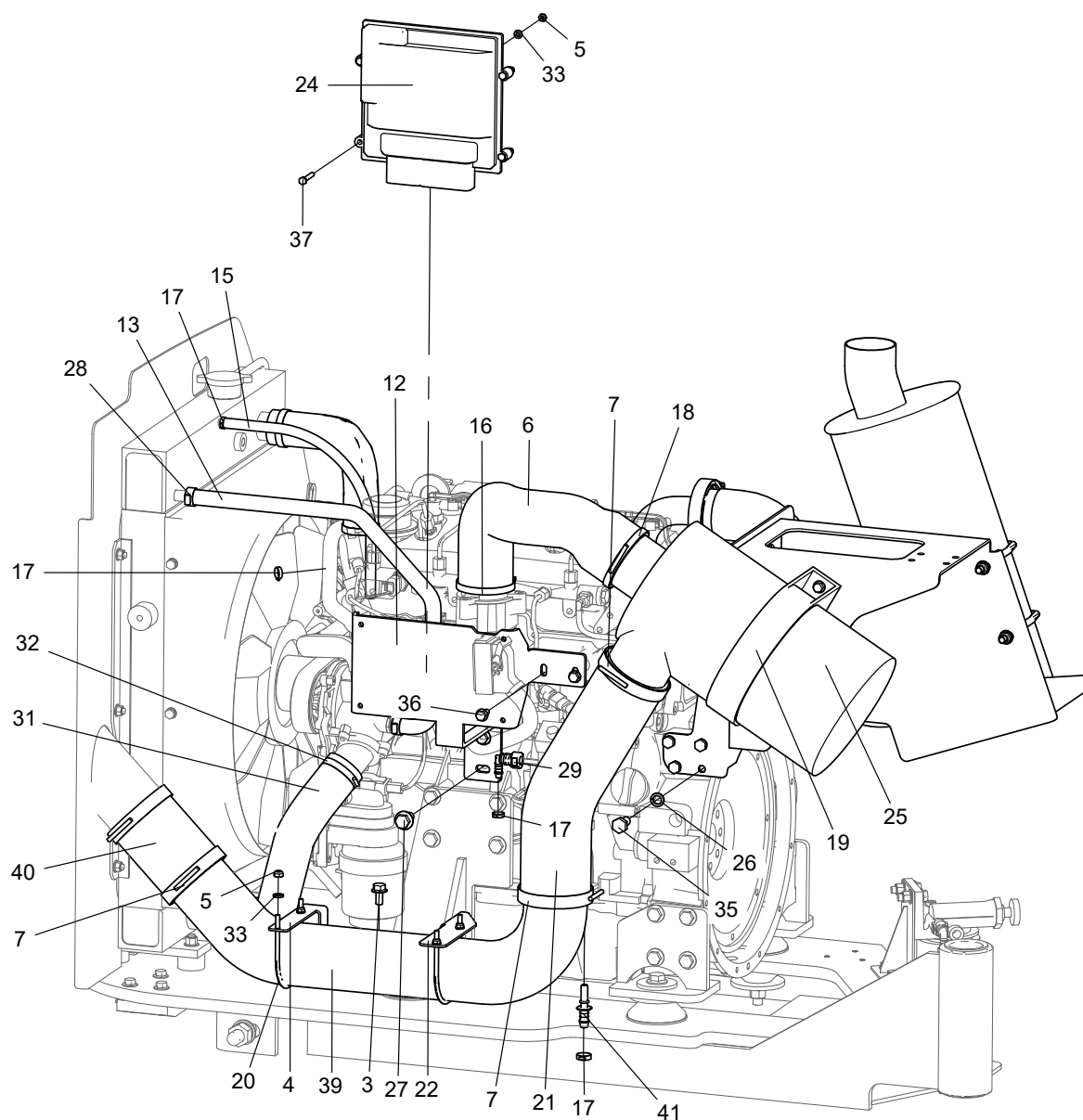


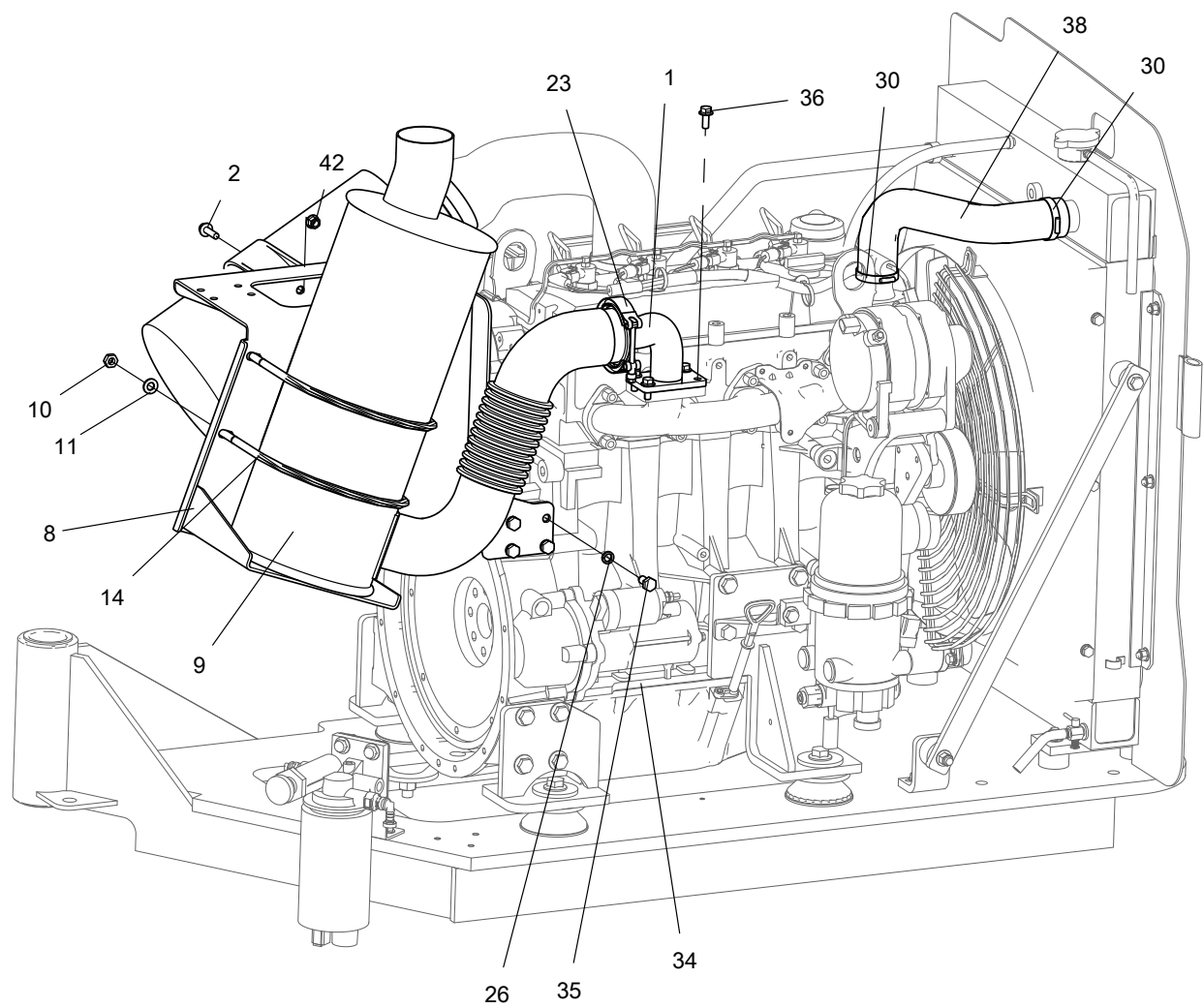
No.	Part No.	Qty.	Description
1	215020000076	4	Screw M12×35-8.8-ZnD GB/T 70.1
2	105001020165	1	Pin XGΦ50-347
3	105025023013	1	Weldment, turntable
4	215010000241	6	Bolt M12×20-8.8-ZnD GB/T 5789
5	105001020169	2	Tie rod
6	105001020179	1	Bracket, battery
7	215010000238	4	Bolt M10×25-8.8-ZnD GB/T 5789
8	105001020167	1	Plate, nylon
9	209020000002	1	Keeper pin Φ12-75
10	105001010199	1	Mounting plate, rear detection switch
11	105064023204	2	Folded plate
12	215010000233	4	Bolt M8×12-8.8-ZnD GB/T 5789
13	105001020176	1	Pressbar 2
14	114002023020	2	Shift fork
15	105030020001	1	Plate
16	105025020046	1	Bracket, ground controller
17	215010000257	4	Bolt M8×45-8.8-ZnD GB/T 5789
18	215010000239	7	Bolt M10×30-8.8-ZnD GB/T 5789
19	215030000109	6	Nut M10-8-ZnD GB/T 6183
20	105030023001	1	Bracket, filter
21	215010000235	2	Bolt M8×25-8.8-ZnD GB/T 5789
22	105001020178	1	Safety pin
23	215030000108	8	Nut M8-8-ZnD GB/T 6183
24	215020000070	1	Screw M10×100-8.8-ZnD GB/T 70.1
25	103008023100	1	Pin XGΦ45-210
26	105064023205	1	Plate

3 ENGINE COMPONENTS

3.1 ENGINE COMPONENTS(CUMMIS QSF2.8T3NA60)

3.1.1 ENGINE INSTALLATION

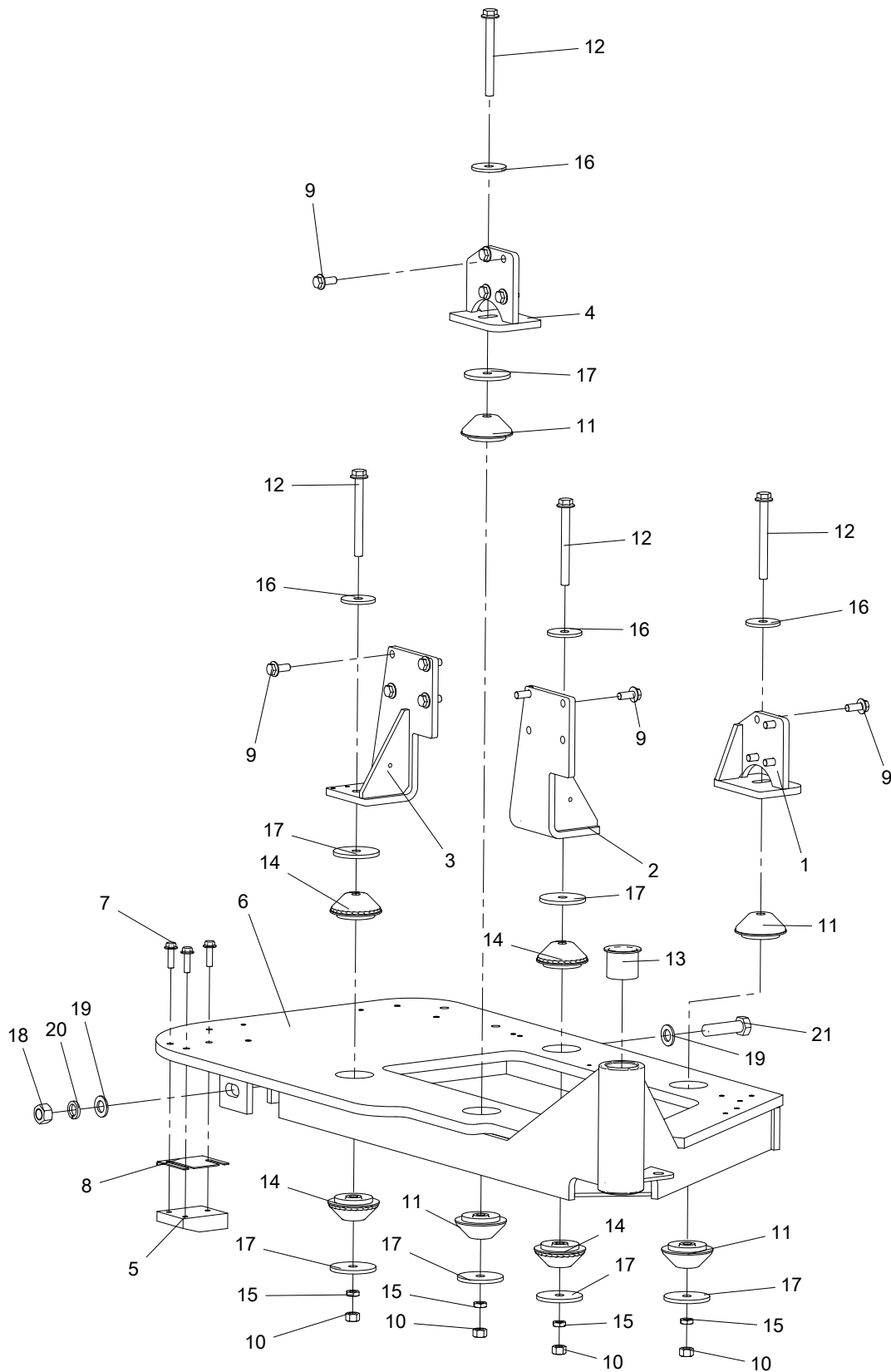




No.	Part No.	Qty.	Description
1	105001020242	1	Bracket, exhaust
2	215010000236	2	Bolt M8×30-8.8-ZnD GB/T 5789
3	215010000286	3	Bolt M8×16-8.8-ZnD GB/T 5789
4	105003020053	1	Plate, bending
5	215030000025	8	Nut M6-8-A2-70 GB/T 889.1
6	105003020097	1	Reducing hose
7	216020000028	4	T-clamp
8	105003020087	1	Bracket, supply/exhaust
9	105003020065	1	Muffler
10	215030000027	4	Nut M10-8-ZnD GB/T 889.1
11	215040000035	4	Washer 10-200HV-ZnD GB/T 97.1
12	105003020054	1	Bracket, controller
13	213050000585	1	Water hose
14	105003020055	2	U-clamp
15	213050000087	1	Water hose
16	216020000015	1	T-clamp
17	216020000004	4	Clamp, non-perforated, DIN
18	216020000047	1	T-clamp
19	201020000002	1	Bracket, air filter
20	105003020060	2	U-clamp
21	105003020084	1	Hose, intake
22	105003020066	1	Retaining plate, intake hose
23	216020000010	1	V-clamp
24	203020000030	1	Controller (come with Cummis QSF2.8)
25	201020000014	1	Air filter
25a	216070000004	1	Air filter element
25b	216070000008	1	Air filter element
26	215040000006	8	Washer 10-ZnD GB/T 93
27	215010000266	2	Bolt M10×20-10.9-DKL GB/T 5789
28	216020000036	2	Clamp, non-perforated, DIN
29	213010000210	1	Quick connector
30	216020000002	2	Clamp, non-perforated, DIN
31	105001020248	1	Hose, water supply
32	216020000007	2	Clamp, non-perforated, DIN
33	215040000033	8	Washer 6-A2 GB/T 97.1
34	201010000008	1	Diesel engine, Cummis QSF2.8t3NA60
35	215010000068	8	Bolt M10×20-8.8-ZnD GB/T 5783

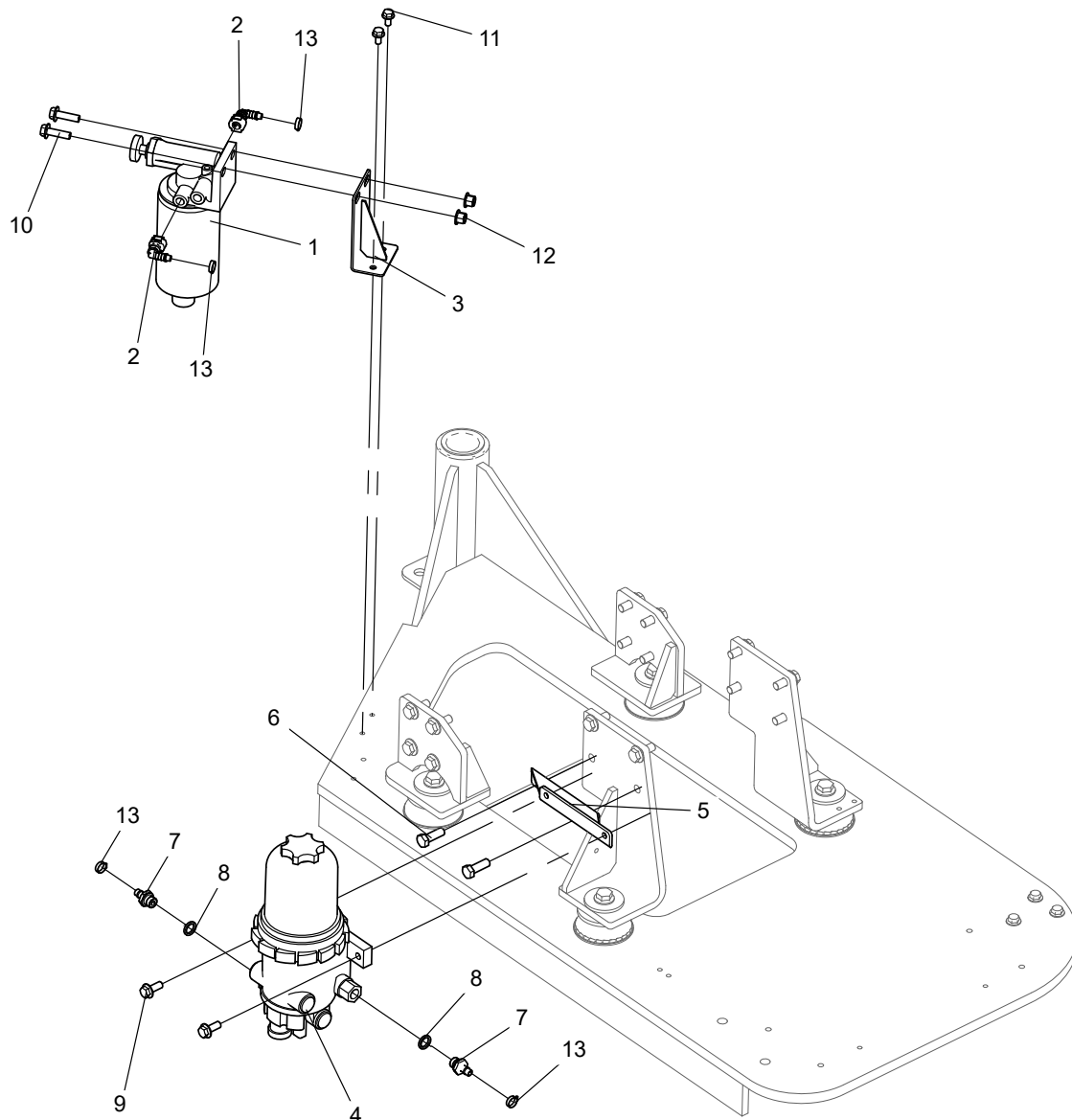
No.	Part No.	Qty.	Description
36	215010000264	6	Bolt M8×20-10.9-DKL GB/T 5789
37	215010000054	4	Bolt M6×40-A2-70 GB/T 5783
38	105003020089	1	Hose, water discharge
39	105003020074	1	Tube, intake
40	105003020058	1	Hose, intake
41	213010000231	1	Plug, male
42	215030000108	2	Nut M8-8-ZnD GB/T 6183
43	305110000001	1	Engine oil, CH-4(Not shown)
44	305140000001	1	Threadlocker, Locktite(Not shown)
45	308130000001	1	Coolant, Fleetcool(Not shown)
46	201990000025	1	Oil filter element, Cummins QSF2.8(Not shown)

3.1.2 ENGINE SUPPORT INSTALLATION



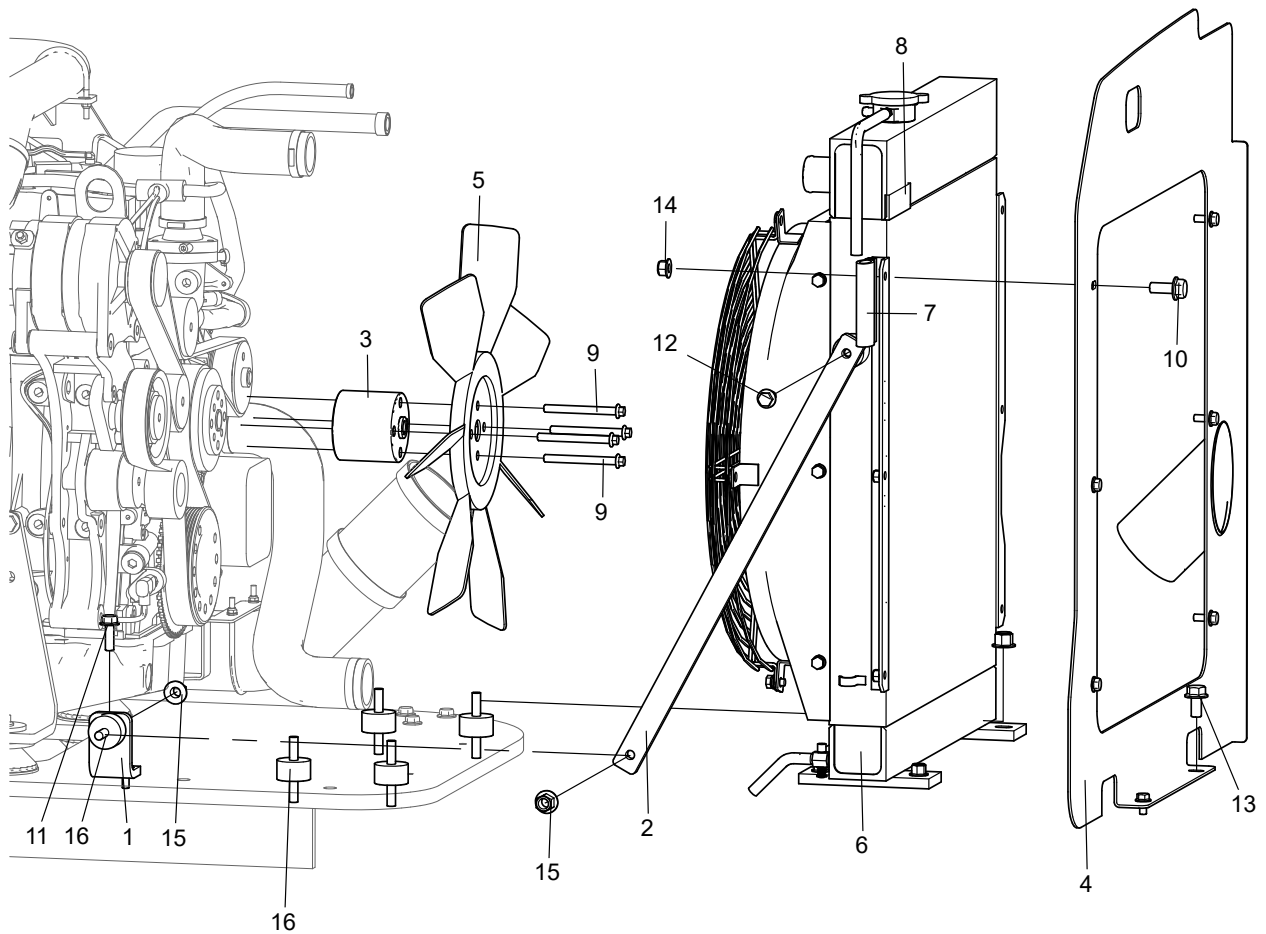
No.	Part No.	Qty.	Description
1	105001020192	1	Mount
2	105003020090	1	Mount
3	105003020081	1	Mount
4	105001020194	1	Mount
5	105001020185	1	Wear pad
6	105003020070	1	Mount, engine
7	215010000248	3	Bolt M10x35-8.8 ZnD GB/T 5789
8	105001020217	1	Shim
9	215010000261	14	Bolt M12×30-10.9 DKL GB/T 5789
10	215030000068	4	Nut M14-8 GB/T 6170
11	216040000005	4	Cushion
12	215010000271	4	Bolt M14×140-10.9-DKL GB/T 5789
13	214030000021	2	Bearing 50×55×50 SF-1F
14	216040000004	4	Cushion
15	215030000096	4	Nut M14-8-ZnD GB/T 6172.1
16	104015020054	4	Shim
17	105003020092	8	Shim, big
18	215030000012	1	Nut M20-8-ZnD GB/T 6170
19	215040000041	2	Washer 20-200HV-ZnD GB/T 97.1
20	215040000009	1	Washer 20 GB/T 93
21	215010000210	1	Bolt M20×75-8.8-ZND-GB/T 5783

3.1.3 FUEL FILTER FUEL-WATER SEPARATOR INSTALLATION



No.	Part No.	Qty.	Description
1	201050000010	1	Diesel filter (come with Cummins QSF2.8)
1a	201990000029	1	Fuel filter element, Cummins QSF2.8
2	213010000211	2	Quick connector
3	105003020051	1	Diesel filter support
4	201050000011	1	Oil/water separator (come with Cummins QSF2.8)
4a	201990000028	1	Filter element, fuel-water separator, Cummins QSF2.8
5	105003020064	1	Bracket, oil/water separator
6	215010000092	2	Bolt M12×35-8.8-ZnD GB/T 5783
7	105003020071	2	Adapter
8	207060000010	2	Combined sealing washer
9	215010000267	2	Bolt M10×25-10.9-DKL GB/T 5789
10	215010000248	2	Bolt M10x35-8.8 ZnD GB/T 5789
11	215010000263	2	Bolt M8×16-10.9-DKL GB/T 5789
12	215030000109	2	Nut M10-8-ZnD GB/T 6183
13	216020000004	4	Clamp, non-perforated, DIN

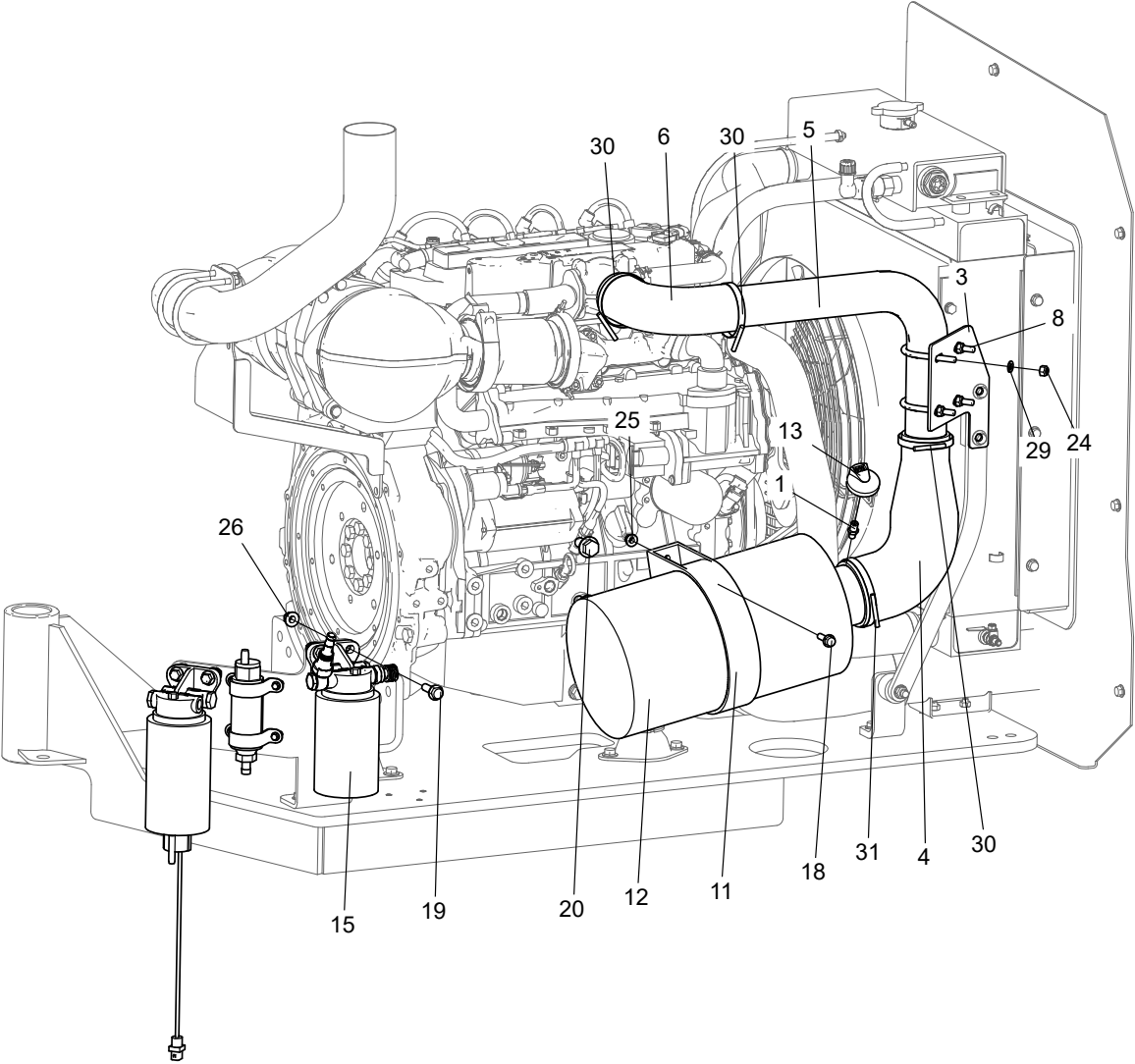
3.1.4 RADIATOR INSTALLATION

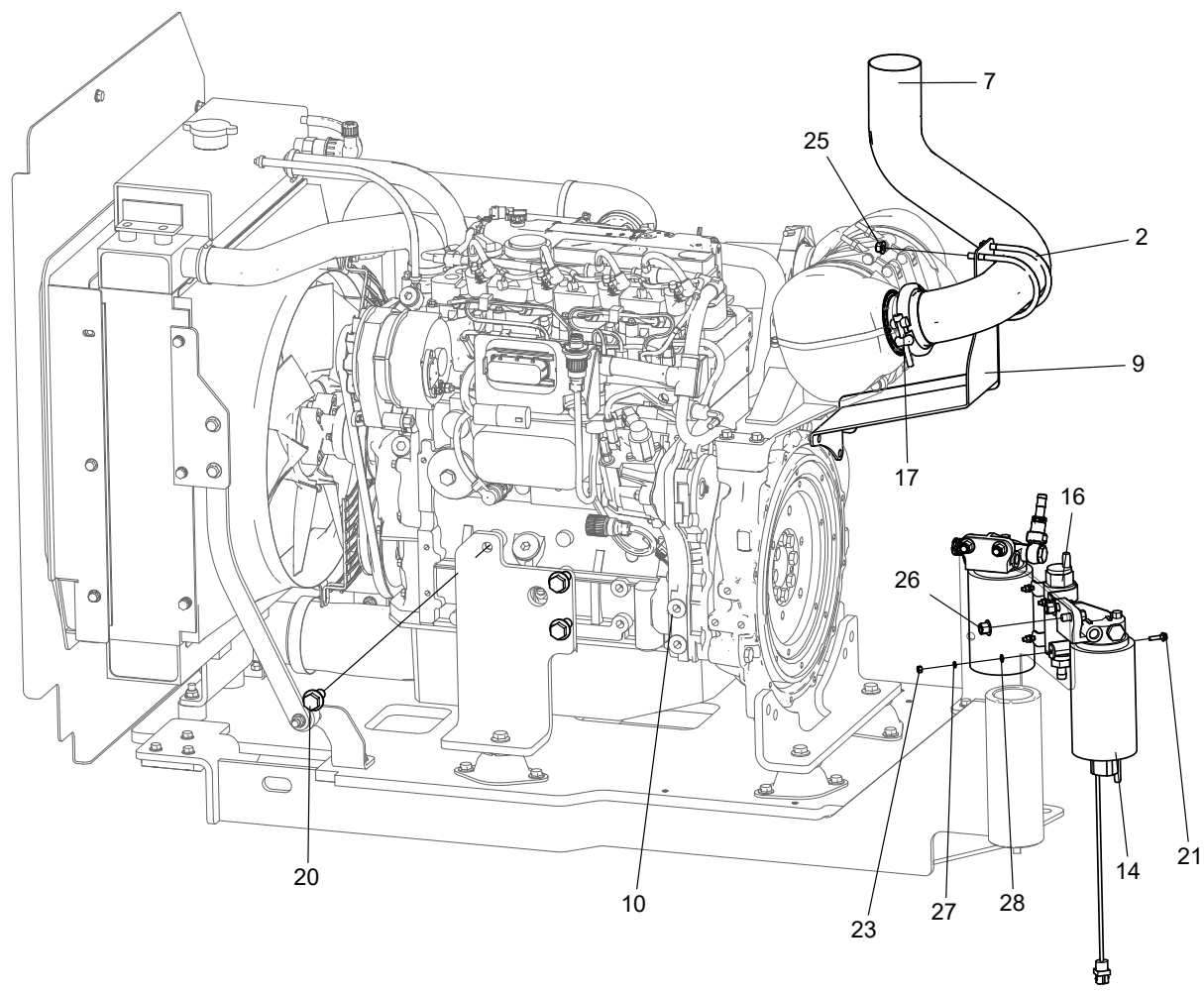


No.	Part No.	Qty.	Description
1	105001020184	1	Plate
2	105003020056	1	Plate
3	105003020091	1	Spacer, fan
4	105029020060	1	Windshield
5	201040000011	1	Fan
6	201040000012	1	Radiator assembly
7	207070000003	1	Seal, heat-resistant
8	207070000004	1	Seal, self-adhesive
9	215010000213	4	Bolt M10×90-10.9-DKL GB/T 16674
10	215010000234	6	Bolt M8×20-8.8-ZnD GB/T 5789
11	215010000265	2	Bolt M8×25-10.9-DKL GB/T 5789
12	215010000267	1	Bolt M10×25-10.9-DKL GB/T 5789
13	215010000263	2	Bolt M8×16-10.9-DKL GB/T 5789
14	215030000108	6	Nut M8-8-ZnD GB/T 6183
15	215030000109	6	Nut M10-8-ZnD GB/T 6183
16	216030000002	5	Cushion, water tank

3.2 ENGINE COMPONENTS(DEUTZ D2.9L4 T4F)

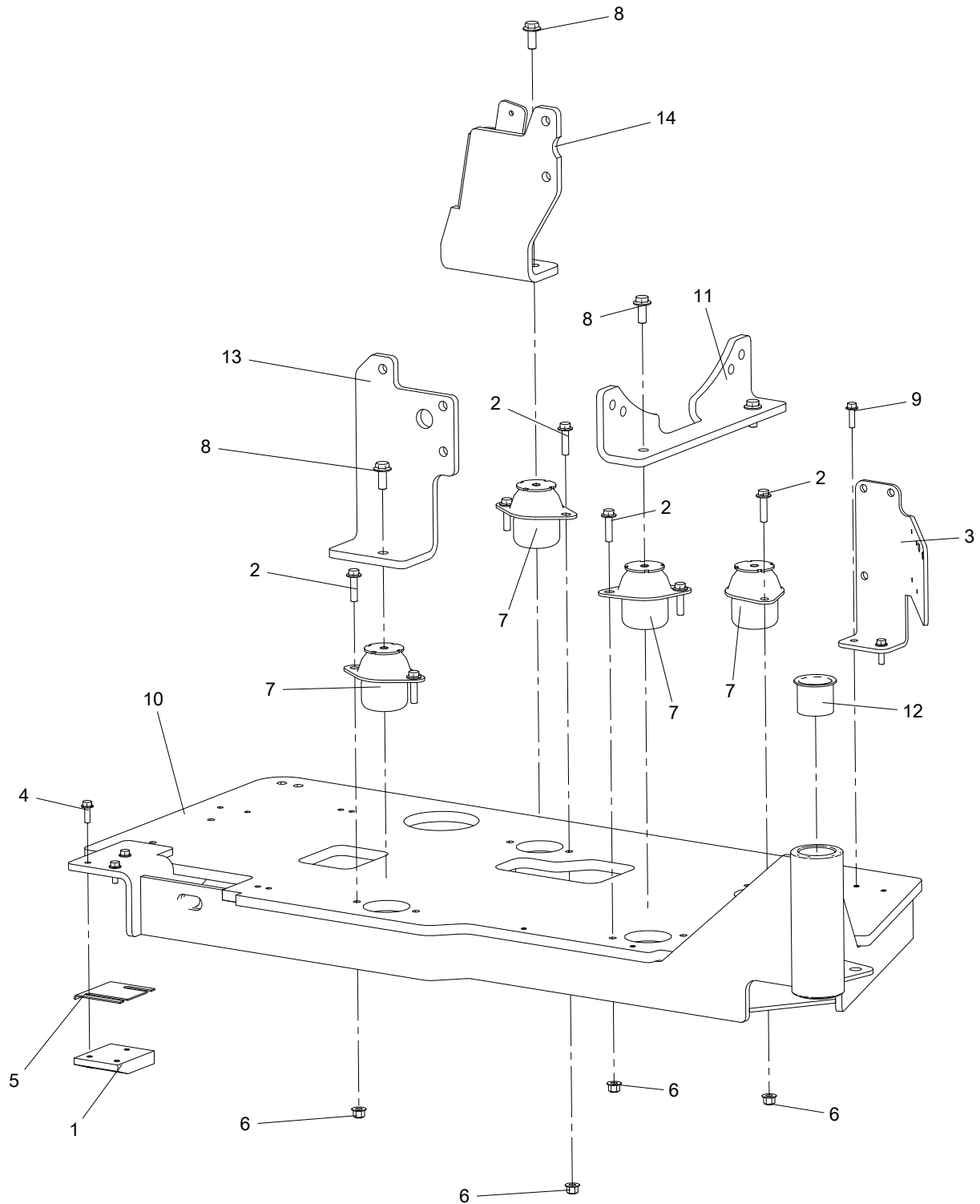
3.2.1 ENGINE INSTALLATION(DEUTZ D2.9L4 T4F)





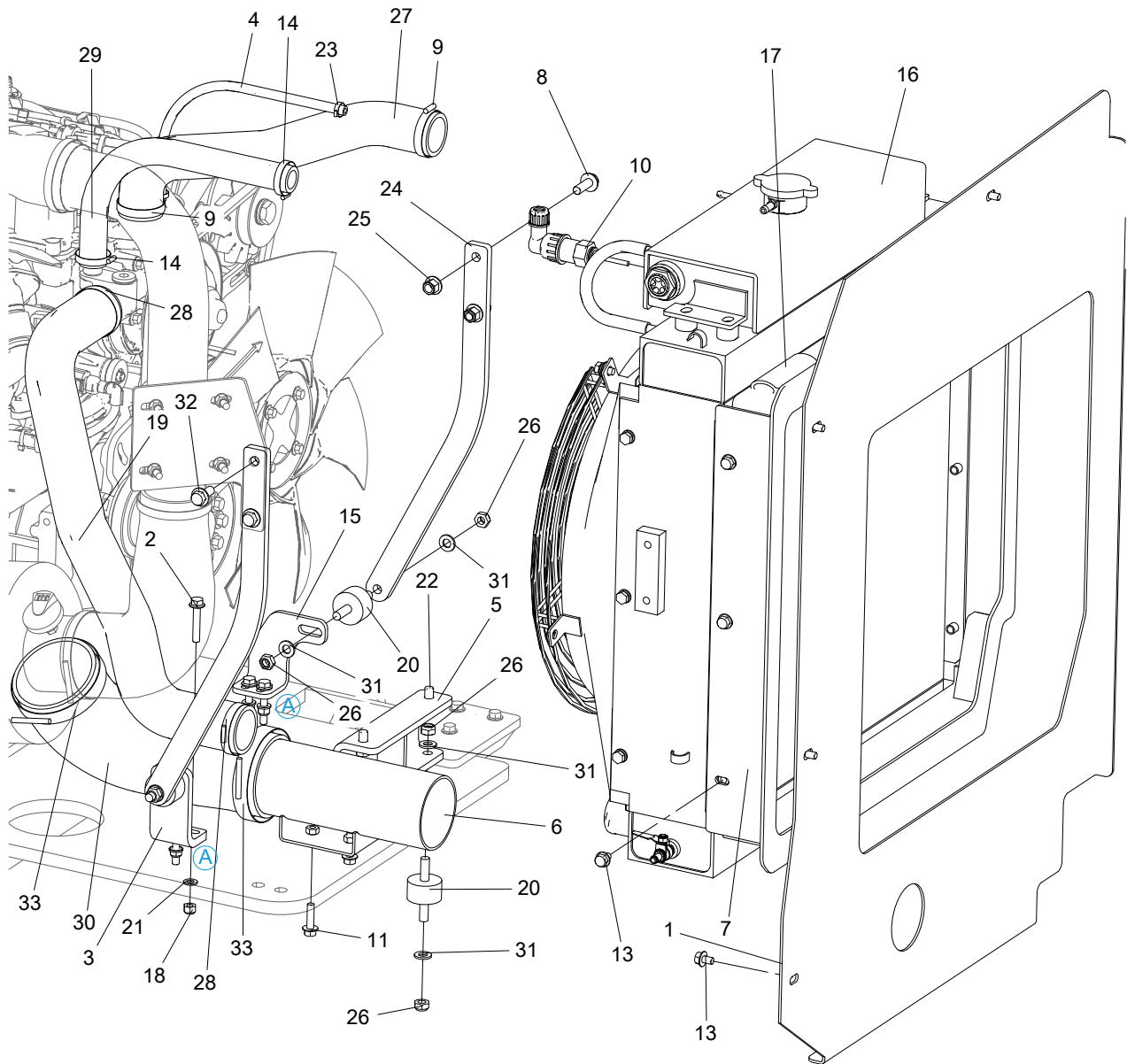
No.	Part No.	Qty.	Description
1	105025023403	1	Fitting
2	105031023060	2	U-bolt
3	105050023000	1	Plate
4	105050023001	1	Hose, intake
5	105050023002	1	Tube, intake
6	105050023003	1	Hose, intake
7	105050023004	1	Tube
8	105050023006	2	U-clamp
9	105050023007	1	Retaining plate, exhaust pipe
10	201010003016	1	Engine
11	201020000002	1	Bracket, air filter
12	201020000014	1	Air filter
12a	216070000012	1	Air filter element
13	201020003004	1	Electronic air filter alarm (provided with engine)
14	201050000006	1	Diesel filter, coarse
14a	216070000011	1	Diesel strainer element
15	201050000007	1	Diesel filter
15a	216070000006	1	Diesel filter element
16	201050000015	1	Suction pump (provided with engine)
17	201990000017	1	Clamp
18	215010000236	2	Bolt M8×30-8.8-ZnD GB/T 5789
19	215010000248	2	Bolt M10×35-8.8 ZnD GB/T 5789
20	215010000252	5	Bolt M14×30-8.8-ZnD GB/T 5789
21	215010000256	4	Bolt M5×20-8.8-ZnD GB/T 5789
22	215010000260	4	Bolt M14×35-8.8-ZnD GB/T 5789
23	215030000003	4	Nut M5-A2-70 GB/T 6170
24	215030000026	4	Nut M8-8-ZnD GB/T889.1
25	215030000108	6	Nut M8-8-ZnD GB/T 6183
26	215030000109	4	Nut M10-8-ZnD GB/T 6183
27	215040000003	4	Washer 5-A2-70 GB/T 93
28	215040000032	4	Washer 5-A2 GB/T 97.1
29	215040000034	4	Washer 8-200HV-ZnD GB/T 97.1
30	216020000006	3	T-clamp
31	216020000047	1	T-clamp
32	216070000009	1	Filter element(Not shown)
33	216070000010	1	Engine oil filter element(Not shown)

3.2.2 ENGINE SUPPORT INSTALLATION(DEUTZ D2.9L4 T4F)



No.	Part No.	Qty.	Description
1	105031023036	1	Wear pad
2	215010000240	8	Bolt M10×40-8.8-ZnD GB/T 5789
3	105031023035	1	Mounting plate
4	215010000235	3	Bolt M8×25-8.8-ZnD GB/T 5789
5	105001020217	1	Shim
6	215030000109	8	Nut M10-8-ZnD GB/T 6183
7	216040000019	4	Cushion
8	215010000243	4	Bolt M12×30-8.8-ZnD GB/T 5789
9	215010000236	2	Bolt M8×30-8.8-ZnD GB/T 5789
10	105032023019	1	Mount, engine
11	105025023337	1	Front mount
12	214030000021	2	Bearing 50×55×50 SF-1F
13	105025023319	1	Rear mount 2
14	105025023330	1	Rear mount 1

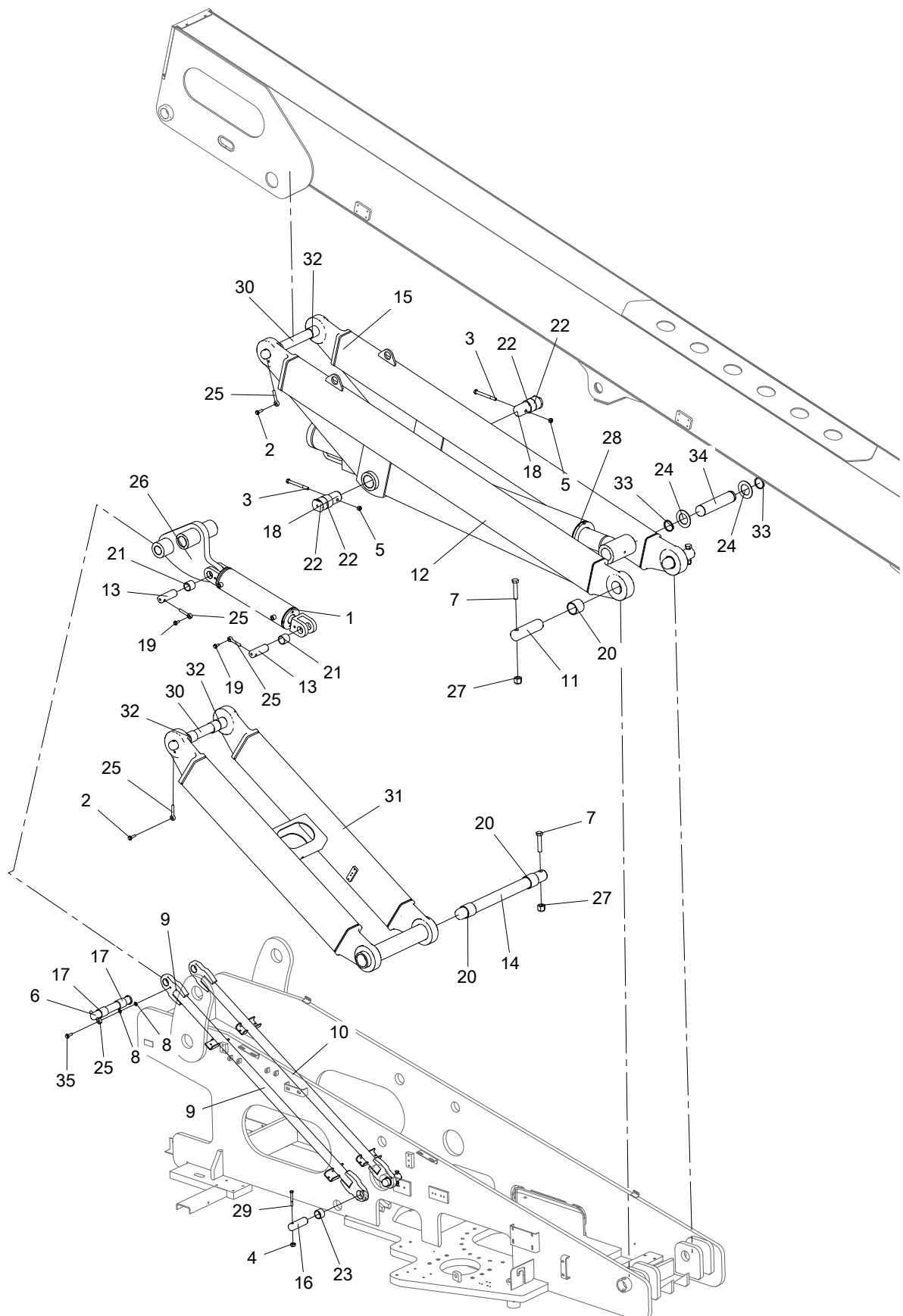
3.2.3 RADIATOR INSTALLATION(DEUTZ D2.9L4 T4F)



No.	Part No.	Qty.	Description
1	105029023022	1	Seal plate
2	215010000257	4	Bolt M8×45-8.8-ZnD GB/T 5789
3	105025023327	1	Plate, bending
4	105025023334	1	Water hose Φ11×2.5×380
5	105025023347	1	Support, water tank
6	105025023348	1	Hose, intake
7	105031023026	1	Wind hood
8	215010000239	2	Bolt M10×30-8.8-ZnD GB/T 5789
9	216020000002	2	Clamp, non-perforated, DIN
10	203150000022	1	Sensor, coolant level
11	215010000236	2	Bolt M8×30-8.8-ZnD GB/T 5789
12	308130000001	1	Coolant, Fleetcool(Not shown)
13	215010000233	10	Bolt M8×12-8.8-ZnD GB/T 5789
14	216020000014	2	Clamp, non-perforated, DIN
15	105031023020	1	Plate
16	201040003000	1	Radiator
17	207070000003	1	Seal, heat-resistant
18	215030000026	4	Nut M8-8-ZnD GB/T889.1
19	105025023344	1	Tube
20	216030000002	4	Cushion, water tank
21	215040000034	4	Washer 8-200HV-ZnD GB/T 97.1
22	215010000237	2	Bolt M10×20-8.8-ZnD GB/T 5789
23	216020000004	2	Clamp, non-perforated, DIN
24	105025023338	2	Tie rod
25	215030000109	2	Nut M10-8-ZnD GB/T 6183
26	215030000027	8	Nut M10-8-ZnD GB/T 889.1
27	105025023288	1	Elbow, water supply
28	216020000007	2	Clamp, non-perforated, DIN
29	105025023332	1	Water pipe
30	105025023316	1	Tube
31	215040000035	8	Washer 10-200HV-ZnD GB/T 97.1
32	215010000238	2	Bolt M10×25-8.8-ZnD GB/T 5789
33	216020000028	2	T-clamp
34	305140000001	1	Threadlocker, Locktite(Not shown)
35	305110000002	1	Engine oil, CJ-4(Not shown)

4 BOOM COMPONENTS

4.1 BOOM LINK ASSEMBLY

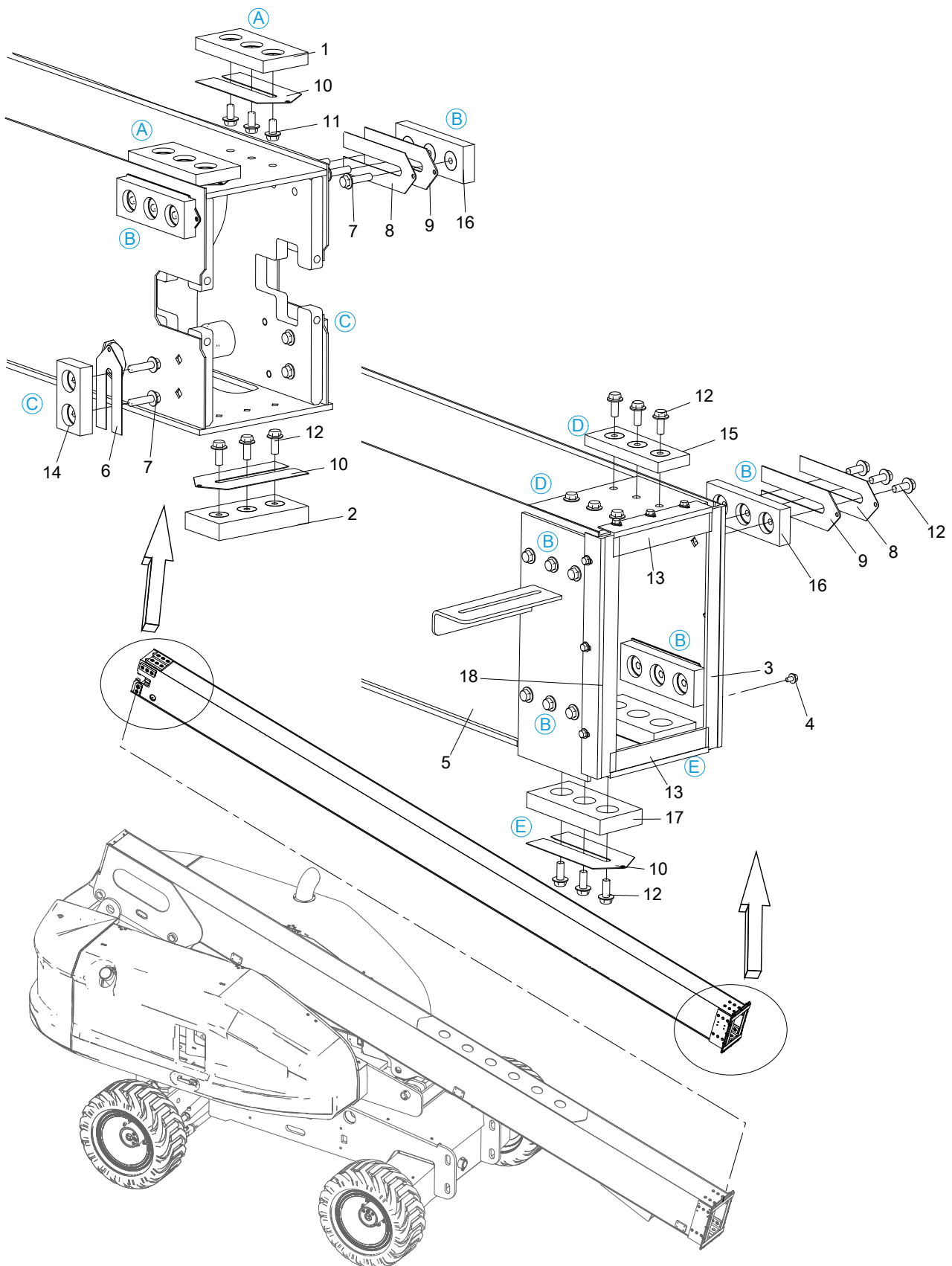


No.	Part No.	Qty.	Description
1	105025013412	1	Level cylinder, lower(A)
1a-1	207990003154	1	Seal kit, cylinder(1000145)
1a-2	207990003087	1	Seal kit , cylinder(1000026)
1a-3	207990003062	1	Seal kit, cylinder(1000148)
2	215010000240	2	Bolt M10×40-8.8-ZnD GB/T 5789
3	215010000170	2	Bolt M14×140-8.8 GB/T 5782
4	215030000027	2	Nut M10-8-ZnD GB/T 889.1
5	215030000080	2	Nut M14-8-ZnD GB/T 889.1
6	105003010083	1	Pin XGΦ40-295
7	215010000206	3	Bolt M20×100-10.9-DKL GB/T 5782
8	215040000035	2	Washer 10-200HV-ZnD GB/T 97.1
9	105026013219	1	Link
10	105026013216	1	Link
11	105031013003	2	Pin XGΦ60-210
12	105055013004	1	Cylinder support arm
13	105001010235	2	Pin XGΦ40-120
14	105026013250	1	Pin XGΦ60-695
15	105055013002	1	Cylinder support arm
16	105051013241	2	Pin XGΦ40-120
17	214030000054	2	Bearing, self-lubricating
18	105026013257	2	Clevis pin XJΦ60-168
19	215010000238	2	Bolt M10×25-8.8-ZnD GB/T 5789
20	214030000090	4	Bushing, self-lubricating
21	214030000053	2	Bearing, self-lubricating
22	214030000060	4	Bushing, self-lubricating
23	214010003000	2	Bearing, self-lubricating
24	105001010142	2	Washer
25	209020000002	5	Keeper pin Φ12-75
26	105026013226	1	Connector
27	215030000098	3	Nut M20-8-ZnD GB/T889.1
28	105025013177	1	Lift cylinder(A)
28a	207990003069	1	Seal kit, cylinder
29	215010000012	2	Bolt M10×80-8.8-ZnD GB/T 5782
30	105025013095	2	Clevis pin XJΦ50-485
31	105026013174	1	Riser arm, lower
32	214030000067	6	Bushing, self-lubricating
33	215040000100	2	Retaining ring 60-DKL JB/ZQ 4342

No.	Part No.	Qty.	Description
34	105025013096	1	Pin XGΦ60-270
35	215010000248	1	Bolt M10x35-8.8 ZnD GB/T 5789

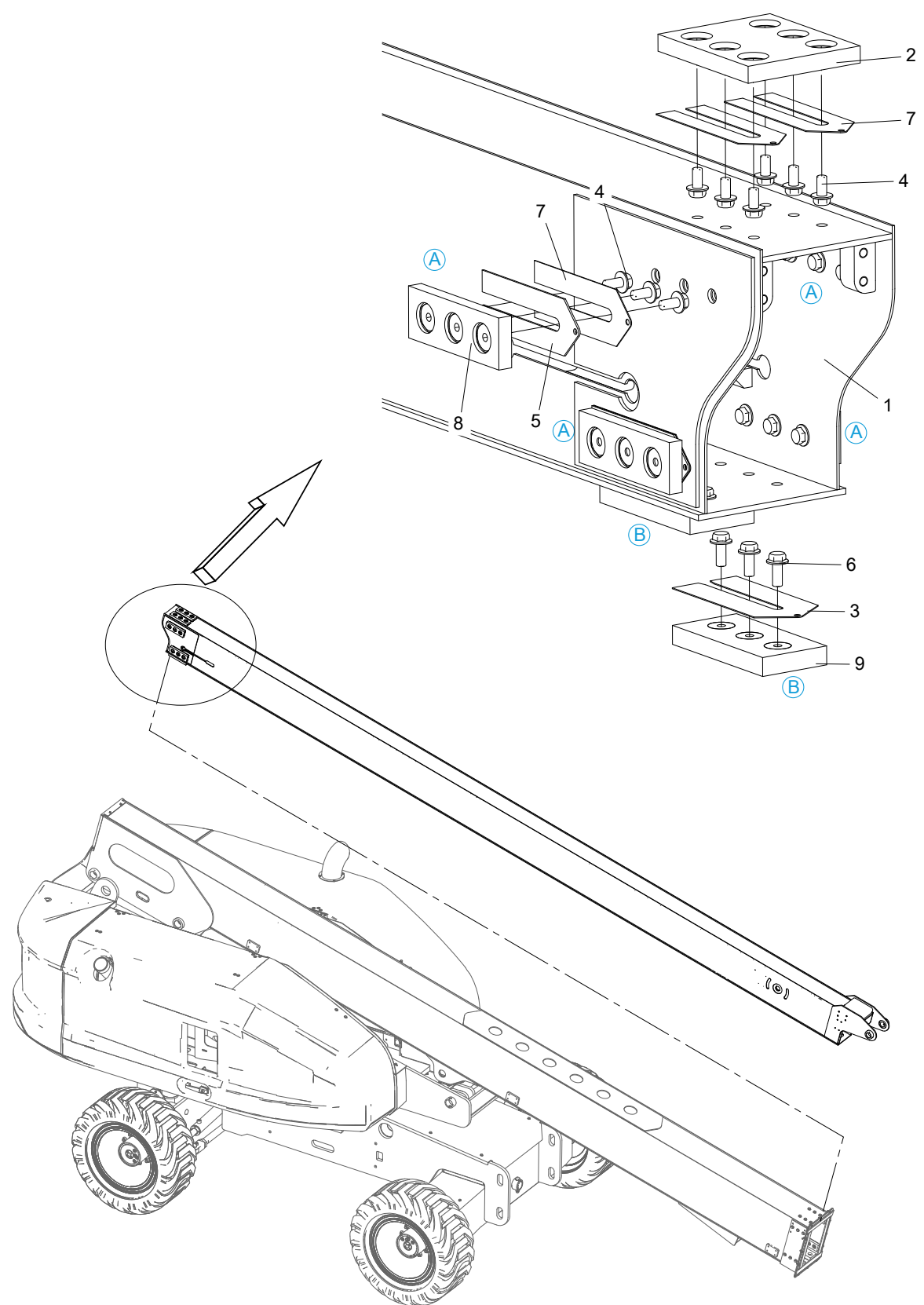
No.	Part No.	Qty.	Description
1	215010000229	14	Bolt M6×10-8.8-ZnD GB/T 5789
2	105026013138	1	Plate
3	105050013019	1	Base boom
4	215010000238	24	Bolt M10×25-8.8-ZnD GB/T 5789
5	104011010072	4	Shim
6	215010000232	2	Bolt M6×25-8.8-ZnD GB/T 5789
7	104009010103	4	Shim
8	105031013002	2	Shim
9	215030000107	2	Nut M6-8-ZnD GB/T 6183
10	215030000108	2	Nut M8-8-ZnD GB/T 6183
11	215010000236	2	Bolt M8×30-8.8-ZnD GB/T 5789
12	105048010033	2	Wear pad assembly
13	105067013071	4	Wear pad assembly
14	105055013009	1	Nylon brush
15	105021010113	2	Wear pad assembly
16	105055013012	1	Nylon brush
17	105055013008	2	Nylon brush
18	105001010200	1	Mount, angle sensor

4.3 TELESCOPIC BOOM 1 INSTALLATION



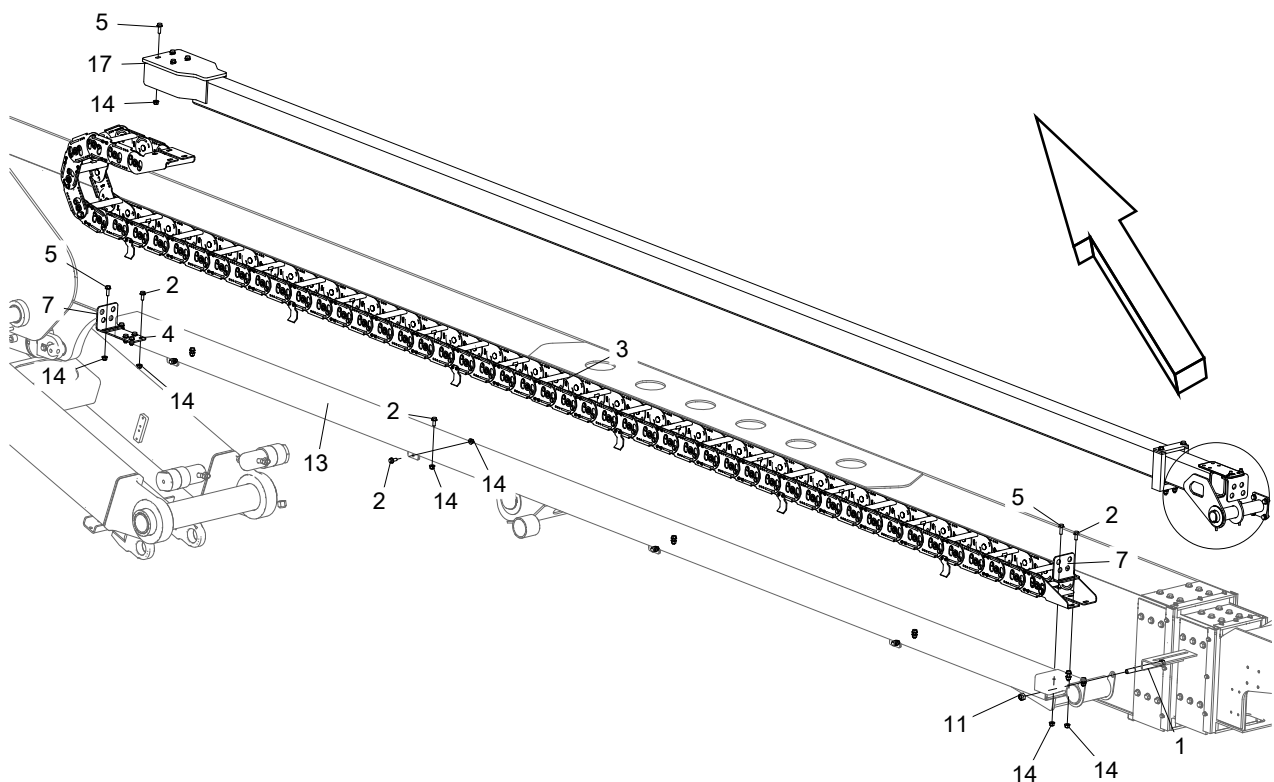
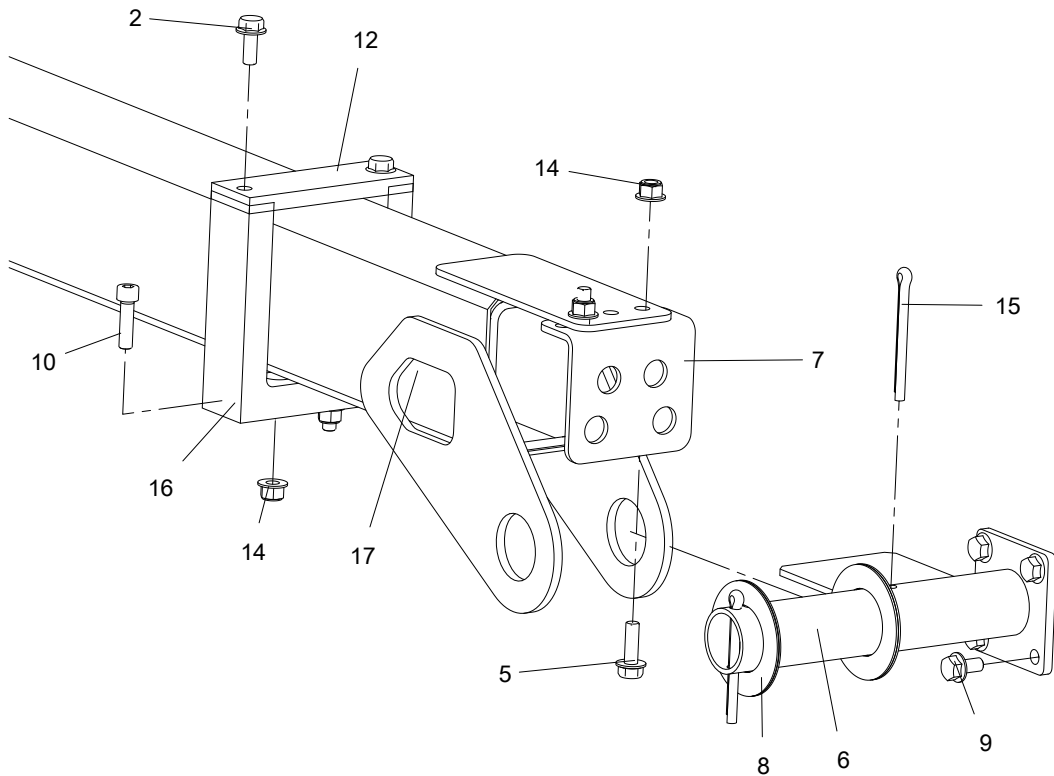
No.	Part No.	Qty.	Description
1	104008010103	2	Wear pad assembly
2	105047010044	1	Wear pad assembly
3	105055013011	1	Nylon brush
4	215010000229	12	Bolt M6×10-8.8-ZnD GB/T 5789
5	105050013021	1	Telescopic boom, #1
6	105049013000	2	Shim
7	215010000240	10	Bolt M10×40-8.8-ZnD GB/T 5789
8	104009010103	6	Shim
9	104011010072	6	Shim
10	105031013002	5	Shim
11	215010000237	6	Bolt M10×20-8.8-ZnD GB/T 5789
12	215010000238	27	Bolt M10×25-8.8-ZnD GB/T 5789
13	105055013013	2	Nylon brush
14	105067013070	2	Wear pad assembly
15	105021010113	2	Wear pad assembly
16	105067013071	6	Wear pad assembly
17	105021010105	2	Wear pad assembly
18	105055013010	1	Nylon brush

4.4 TELESCOPIC BOOM 2 INSTALLATION



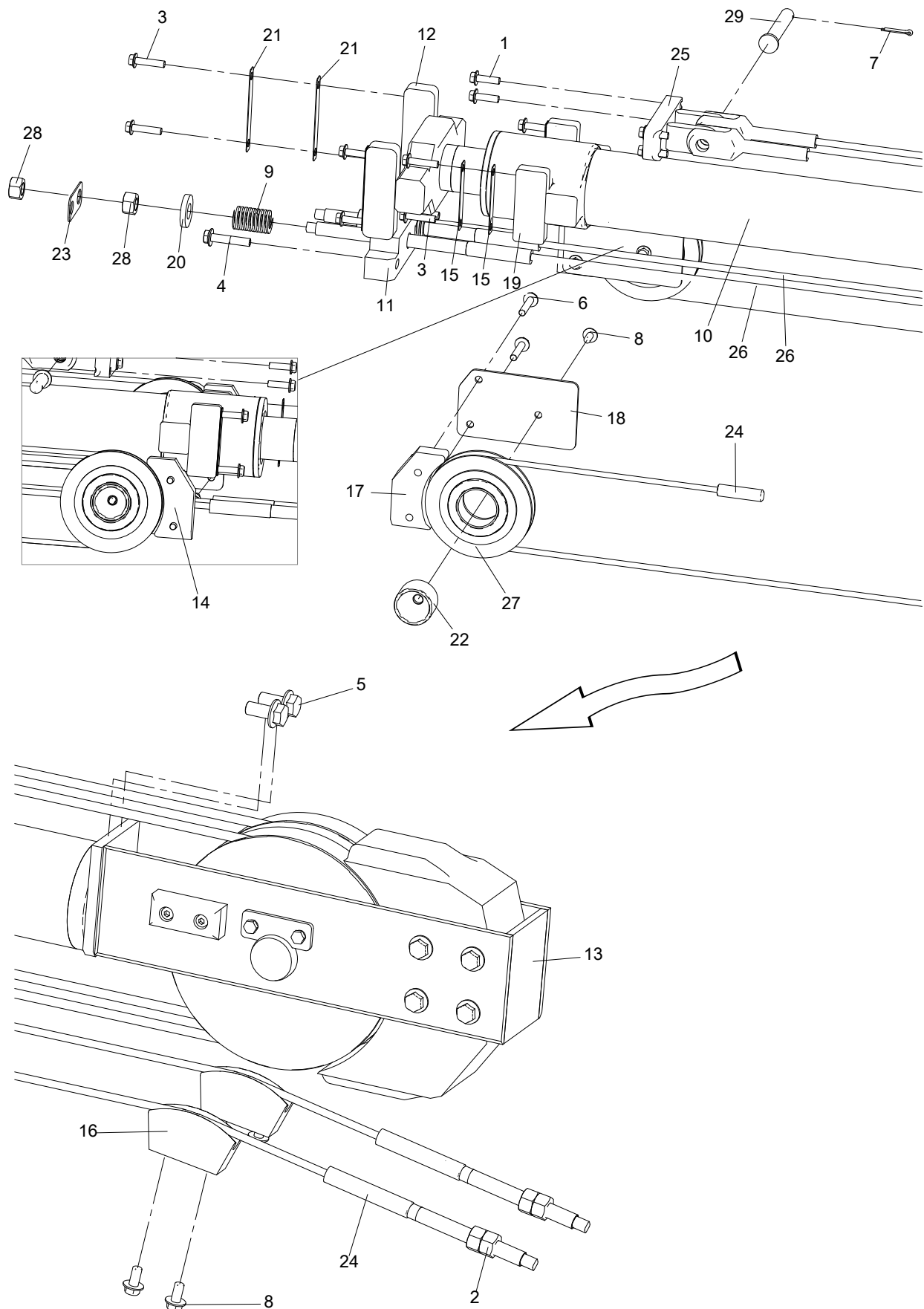
No.	Part No.	Qty.	Description
1	105050013024	1	Telescopic boom, #2
2	105050013139	1	Wear pad assembly
3	105031013002	2	Shim
4	215010000237	18	Bolt M10×20-8.8-ZnD GB/T 5789
5	104011010072	4	Shim
6	215010000238	6	Bolt M10×25-8.8-ZnD GB/T 5789
7	104009010103	6	Shim
8	105067013069	4	Wear pad assembly
9	105047010037	2	Wear pad assembly

4.5 CABLE TRACK INSTALLATION



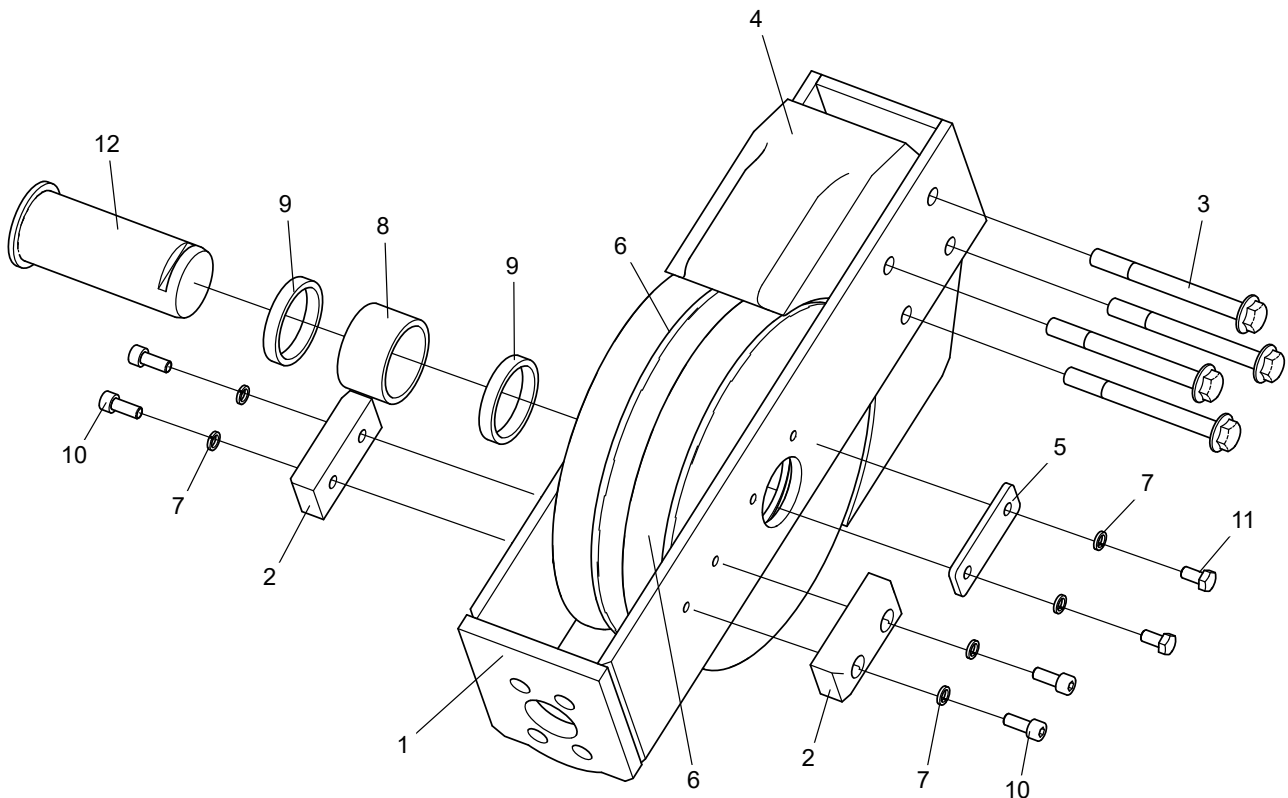
No.	Part No.	Qty.	Description
1	215010000223	1	Bolt M14×155-8.8-ZnD GB/T 5782
2	215010000234	16	Bolt M8×20-8.8-ZnD GB/T 5789
3	204190003072	1	Steel drag chain
4	105071013622	1	Plate
5	215010000235	10	Bolt M8×25-8.8-ZnD GB/T 5789
6	105050013032	1	Bracket
7	105071013623	3	Plate, bending
8	105071013639	4	Retaining ring
9	215010000286	4	Bolt M8×16-8.8-ZnD GB/T 5789
10	215020000025	2	Screw M8×30-8.8-ZnD GB/T 70.1
11	215030000080	1	Nut M14-8-ZnD GB/T 889.1
12	105071013613	1	Cover
13	105050013064	1	Lower conduit
14	215030000108	26	Nut M8-8-ZnD GB/T 6183
15	215060000015	2	Cotter pin 6.3×63-ZnD GB/T 91
16	105050013051	1	Wear pad
17	105050013063	1	Guide tube, upper

4.6 TELESCOPIC MECHANISM



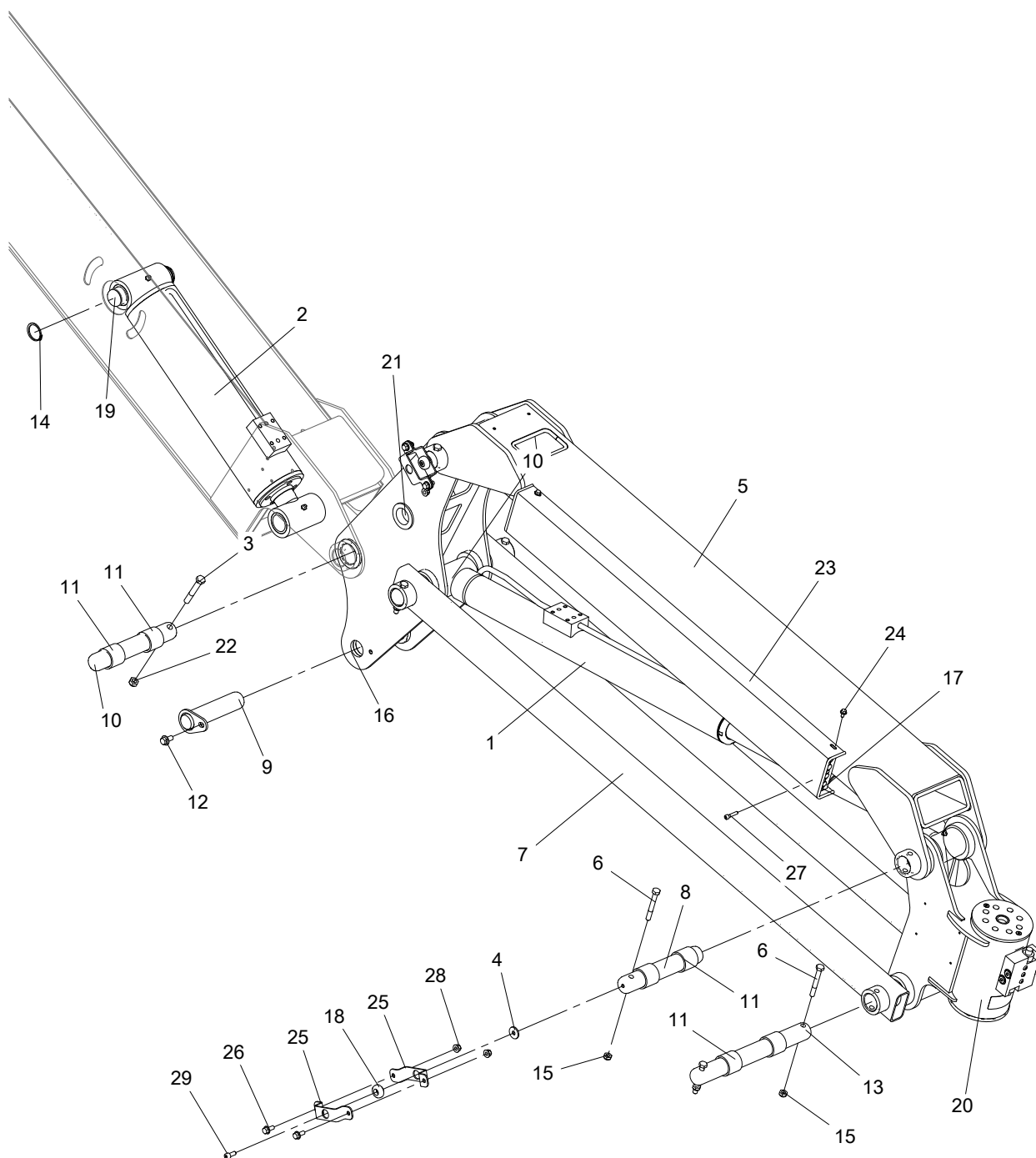
No.	Part No.	Qty.	Description
1	215010000248	4	Bolt M10x35-8.8 ZnD GB/T 5789
2	215030000010	4	Nut M16-8-ZnD GB/T 6170
3	215010000246	8	Bolt M10x45-8.8 ZnD GB/T 5789
4	215010000253	2	M12×60-8.8-ZnD GB/T 5789
5	215010000252	4	Bolt M14×30-8.8-ZnD GB/T 5789
6	215010000258	4	Bolt M10×55-8.8-ZnD GB/T 5789
7	215060000009	1	Pin 5×32-ZnD GB/T 91
8	215010000237	6	Bolt M10×20-8.8-ZnD GB/T 5789
9	210070000003	2	Spring TF35-055
10	105025013086	1	Telescope cylinder(C)
10a	207990003070	1	Seal kit, cylinder
11	105026013209	1	Plate, broken cable detection
12	105001010029	2	Press block, cylinder
13	105026013210	1	Sheave assembly
14	105025013070	1	Stop block
15	105025013059	4	Shim
16	105021010094	2	Guide block
17	105025013067	1	Stop block
18	105025013066	2	Plate
19	105025013064	2	Press block, cylinder
20	105021010194	2	Plate
21	105001010038	4	Shim
22	105001010065	2	Bushing
23	105001010253	2	Plate, detection
24	105026013205	2	Retract cable
25	105026013178	1	Retainer, upper cable
26	105026013182	2	Extend cable
27	105025013074	2	Roller assembly
28	215030000012	4	Nut M20-8-ZnD GB/T 6170
29	215060000052	1	Pin B20×120-ZnD GB/T 882

4.7 HEAD SHEAVE ASSEMBLY



No.	Part No.	Qty.	Description
1	105021010080	1	Retainer, head sheave
2	105025013075	2	Wear pad
3	215010000254	4	Bolt M12×120-8.8-ZnD GB/T 5789
4	105025013077	1	Wear pad
5	105021010067	1	Plate
6	105021010083	2	Roller assembly
7	215040000005	6	Washer 8-ZnD GB/T 93
8	105001010043	1	Sleeve
9	105001010072	2	Sleeve
10	215020000023	4	Screw M8×20-8.8-ZnD GB/T 70.1
11	215010000056	2	Bolt M8×16-8.8-ZnD GB/T 5783
12	105021010066	1	Clevis pin XJΦ50-128

4.8 JIB BOOM INSTALLATION-TB20J PLUS&20EJ PLUS&20HJ PLUS

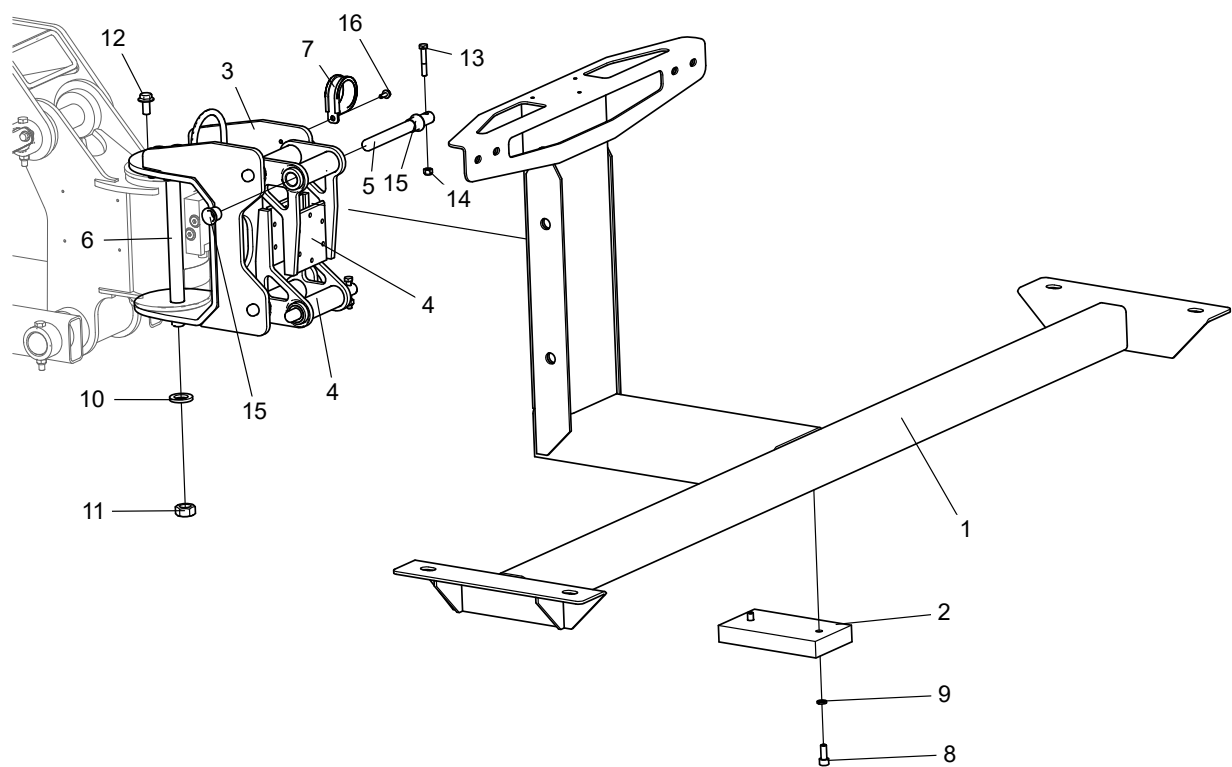


No.	Part No.	Qty.	Description
1	105025013249	1	Lift cylinder, jib(A)
1a-1	207990003063	1	Seal kit, cylinder(1000148)
1a-2	207990003153	1	Seal kit, cylinder(1000145)
1a-3	207990003127	1	Seal kit , cylinder(1000026)
2	105025013315	1	Level cylinder, upper
2a-1	207990003061	1	Seal kit, cylinder(1000148,A)
2a-2	207990003124	1	Seal kit , cylinder(1000026,A)
2a-3	207990003160	1	Seal kit, cylinder(1000145,A)
2a-4	207990003328	1	Seal kit, cylinder(1000148,B)
3	215010000015	1	Bolt M12×80-8.8-ZnD GB/T 5782
4	215040000103	2	Washer 8-100HV-ZnD GB/T 5287
5	105026013291	1	Boom tube
6	215010000012	6	Bolt M10×80-8.8-ZnD GB/T 5782
7	105026013288	2	Level arm
8	105026013276	2	Pin XGΦ40-235
9	105026013279	1	Pin assembly Φ40-160
10	105025013094	1	Pin XGΦ40-250
11	214030000053	10	Bearing, self-lubricating
12	215010000237	1	Bolt M10×20-8.8-ZnD GB/T 5789
13	105026013277	2	Pin XGΦ40-355
14	215040000097	2	Retaining ring 40-DKL JB/ZQ 4342
15	215030000027	6	Nut M10-8-ZnD GB/T 889.1
16	105026013289	1	Pivot
17	105050013079	2	Clamp
18	112001013052	2	Plate, bending
19	105025013099	1	Pin XGΦ40-180
20	202020003009	1	Rotator(A)
20a	207990003068	1	Seal kit, cylinder
21	102004030245	1	Rubber grommet
22	215030000029	1	Nut M12-8-ZnD GB/T 889.1
23	105071013732	1	Hose cover
24	215010000281	4	Bolt M6×12-8.8-ZnD GB/T 5789
25	112001013051	4	Plate, bending
26	215010000234	4	Bolt M8×20-8.8-ZnD GB/T 5789
27	215020000014	4	Screw M6×30-A2-70 GB/T 70.1
28	215030000108	4	Nut M8-8-ZnD GB/T 6183
29	215020000023	2	Screw M8×20-8.8-ZnD GB/T 70.1

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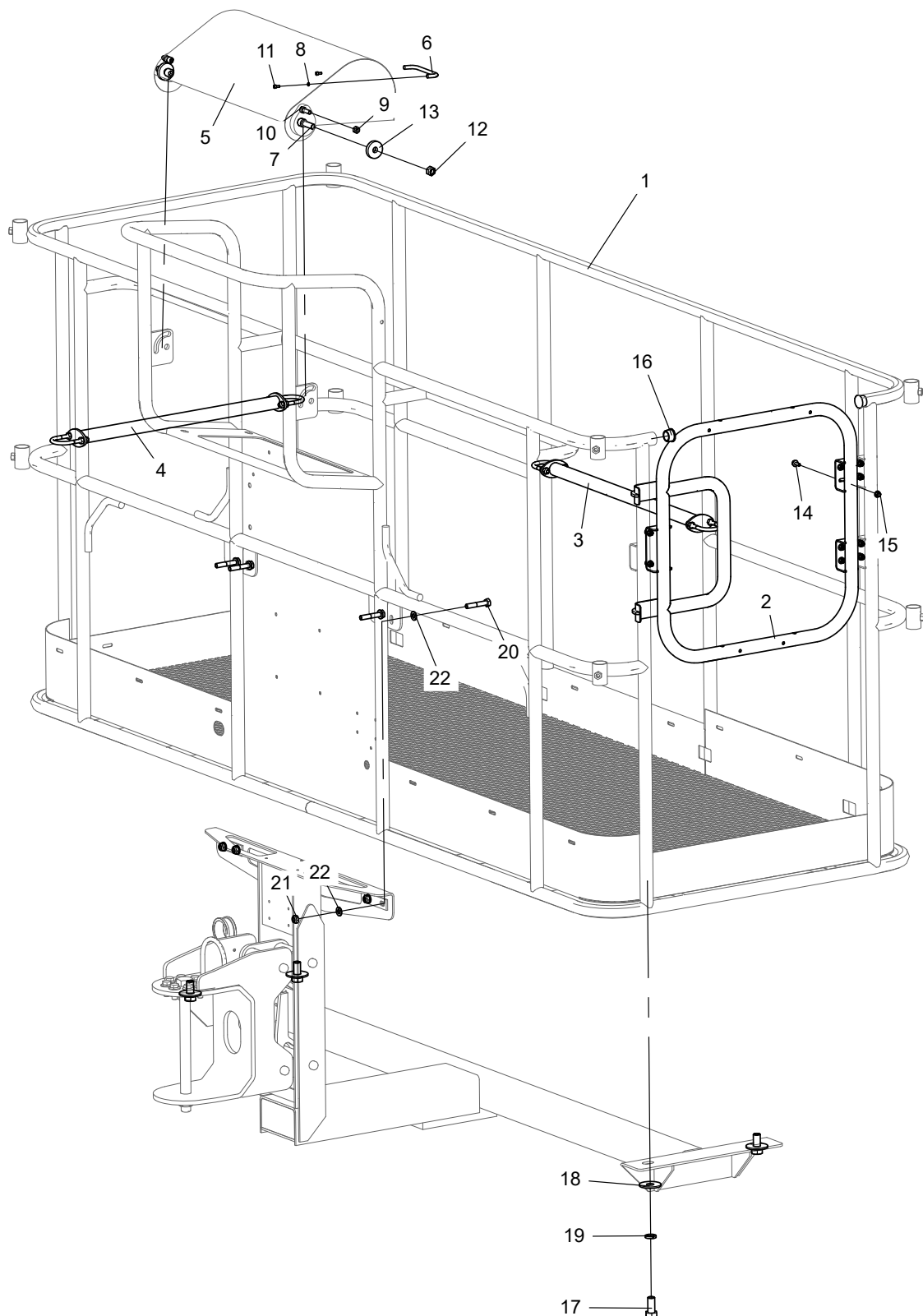
5 PLATFORM COMPONENTS

5.1 PLATFORM SUPPORT INSTALLATION (BIG-SIZED)



No.	Part No.	Qty.	Description
1	105003040008	1	Bracket
2	105001040006	1	Pad
3	105026013303	1	Bracket
4	105001040075	2	Load support
5	105001040034	4	Pin XGΦ20-195
6	105026013305	1	Clevis pin XJΦ24-302
7	216020000025	1	Retaining ring, SSG
8	215020000049	2	Screw M10×25-8.8-ZnD GB/T 70.1
9	215040000006	2	Washer 10-ZnD GB/T 93
10	215040000108	1	Washer 22 GB/T 1230
11	215030000069	1	Nut M22-8-ZnD GB/T6170
12	215010000242	8	Bolt M12×25-8.8-ZnD GB/T 5789
13	215010000163	4	Bolt M8×50-8.8-ZnD GB/T 5782
14	215030000026	4	Nut M8-8-ZnD GB/T889.1
15	214080000001	8	Bearing 20×23×21.5 SF-1F
16	215010000230	1	Bolt M6×16-8.8-ZnD GB/T 5789

5.2 PLATFORM INSTALLATION (BIG-SIZED)

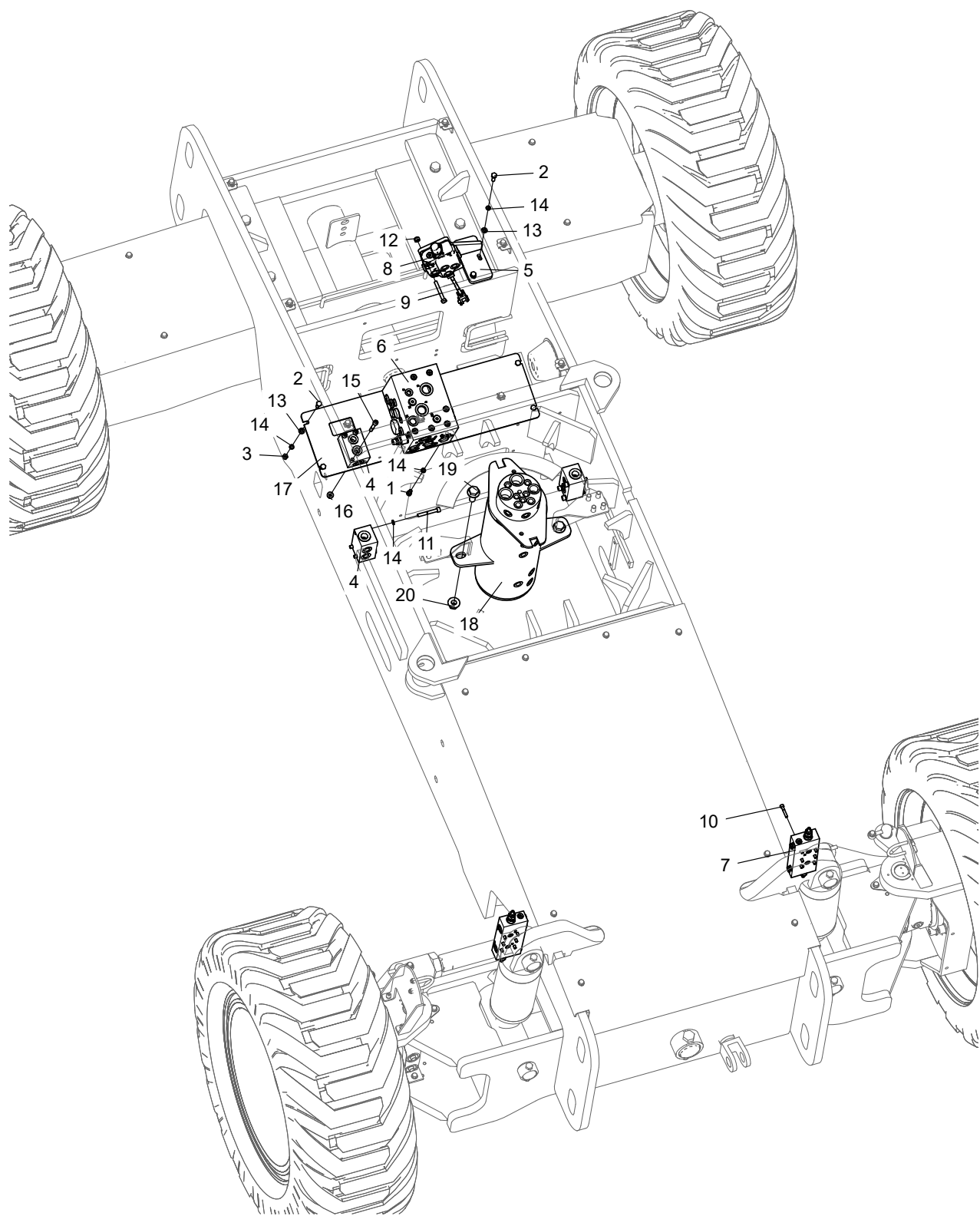


No.	Part No.	Qty.	Description
1	105064043073	1	Basket
2	105064043085	1	Side-opening door
3	105064043183	1	Bar, drop
4	105064043168	1	Bar, drop
5	105001040029	1	Dust cover
6	209030000001	1	Handle, C.C.96mm
7	215020000208	2	Screw M12×40-8.8-ZnD GB/T 70.1
8	215040000002	2	Washer 4-A2-70 GB/T 93
9	215030000005	2	Nut M8-8-ZnD GB/T 6170
10	215020000024	2	Screw M8×25-8.8-ZnD GB/T 70.1
11	215020000001	2	Screw M4×10-A2-70 GB/T 70.1
12	215030000029	1	Nut M12-8-ZnD GB/T 889.1
13	105001040055	2	Plate
14	215010000230	12	Bolt M6×16-8.8-ZnD GB/T 5789
15	215030000107	12	Nut M6-8-ZnD GB/T 6183
16	105064043177	2	Pipe seal
17	215010000109	4	Bolt M16×35-8.8-ZnD GB/T 5783
18	215040000020	4	Washer 16-200HV-ZnD GB/T 96.1
19	215040000008	4	Washer 16 GB/T 93
20	215010000009	4	Bolt M10×55-8.8-ZnD GB/T 5782
21	215030000027	4	Nut M10-8-ZnD GB/T 889.1
22	215040000035	8	Washer 10-200HV-ZnD GB/T 97.1

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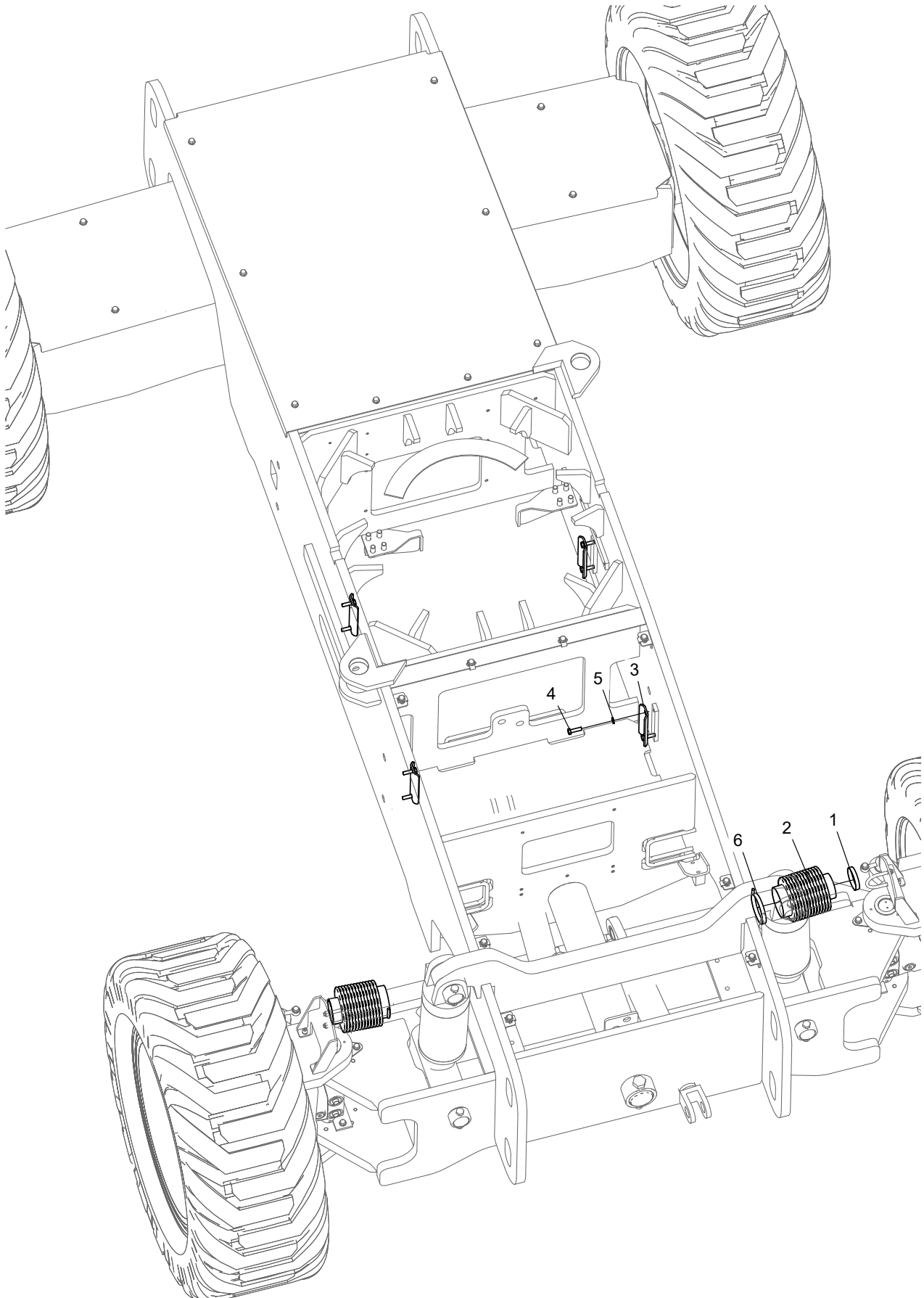
6 HYDRAULIC SYSTEM

6.1 CHASSIS HYDRAULIC COMPONENTS INSTALLATION



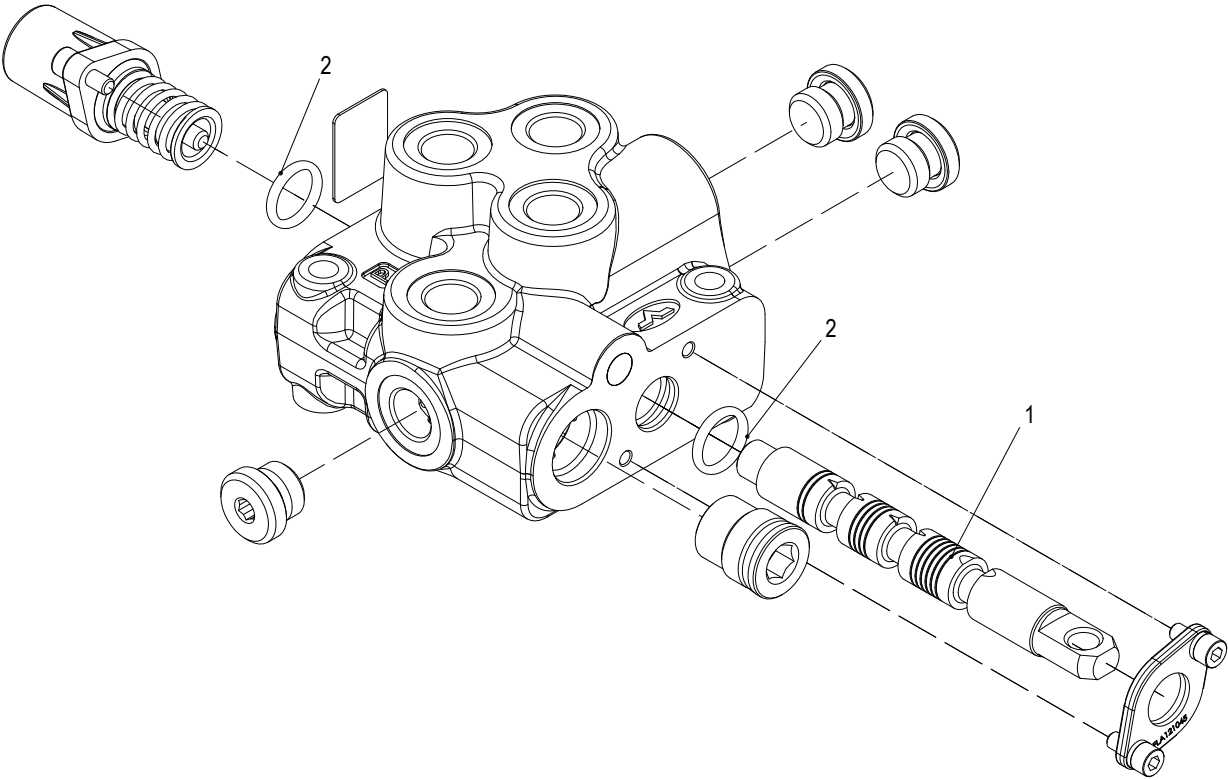
No.	Part No.	Qty.	Description
1	215020000023	4	Screw M8×20-8.8-ZnD GB/T 70.1
2	215010000058	7	Bolt M8×25-8.8-ZnD GB/T 5783
3	215030000005	4	Nut M8-8-ZnD GB/T 6170
4	105001050037	3	Manifold
5	112001053153	1	Bracket, oscilalte multi-way valve
6	104020050022		Drive control valve options (4WD)(See details)
6-1	202040000153	1	Drive control valve(1000176)
6-2	202040003250	1	Drive control valve(1000282)
7	202040003032	2	Oscillate counterbalance valve(See details)
8	202040003026	1	Oscillate multi-way valve(See details)
9	215010000066	2	Bolt M8×65-8.8-ZnD GB/T 5783
10	215020000015	12	Screw M6×35-A2-70 GB/T 70.1
11	215020000038	6	Screw M8×60-8.8-ZnD GB/T 70.1
12	215030000026	2	Nut M8-8-ZnD GB/T889.1
13	215040000034	7	Washer 8-200HV-ZnD GB/T 97.1
14	215040000005	17	Washer 8-ZnD GB/T 93
15	215020000042	3	Screw M8×70-10.9-DKL GB/T 70.1
16	215030000108	3	Nut M8-8-ZnD GB/T 6183
17	103008030018	1	Mounting plate, drive manifold
18	202100003009	1	Hydraulic rotary coupler(A)
18a	207990003225	1	Seal kit,cylinder
19	215010000276	2	Bolt M16×40-8.8-ZnD GB/T 5789
20	215030000105	2	Nut M16-10-DKL GB/T 6177.1

6.2 CHASSIS HOSE SUPPORT AND CYLINDER JACKET INSTALLATION



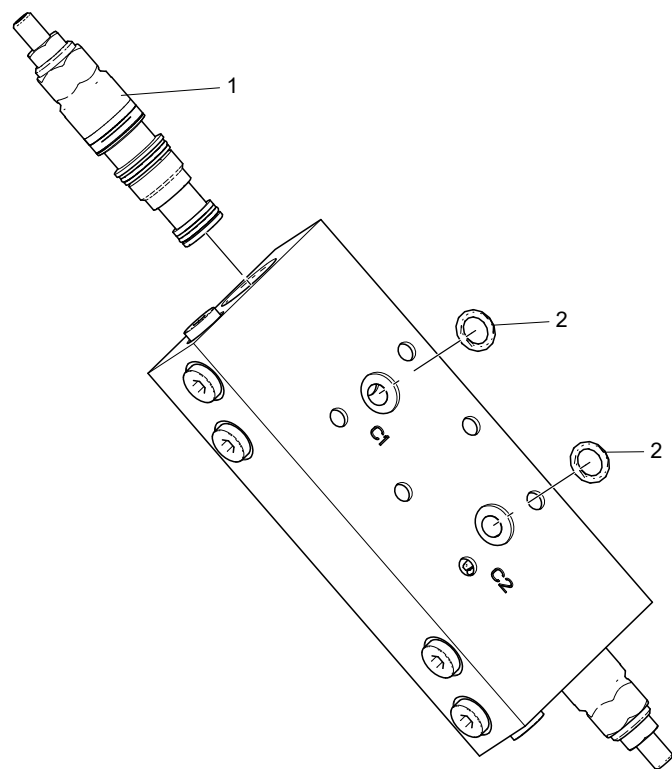
No.	Part No.	Qty.	Description
1	216020000003	2	Clamp, non-perforated, DIN
2	105047050001	2	Bellow, steer cylinder
3	103003050039	4	Bracket
4	215010000059	8	Bolt M8×30-8.8-ZnD GB/T 5783
5	215040000034	8	Washer 8-200HV-ZnD GB/T 97.1
6	216020000009	2	Clamp

6.3 OSCILLATE MULTI-WAY VALVE(PN.202040003026)



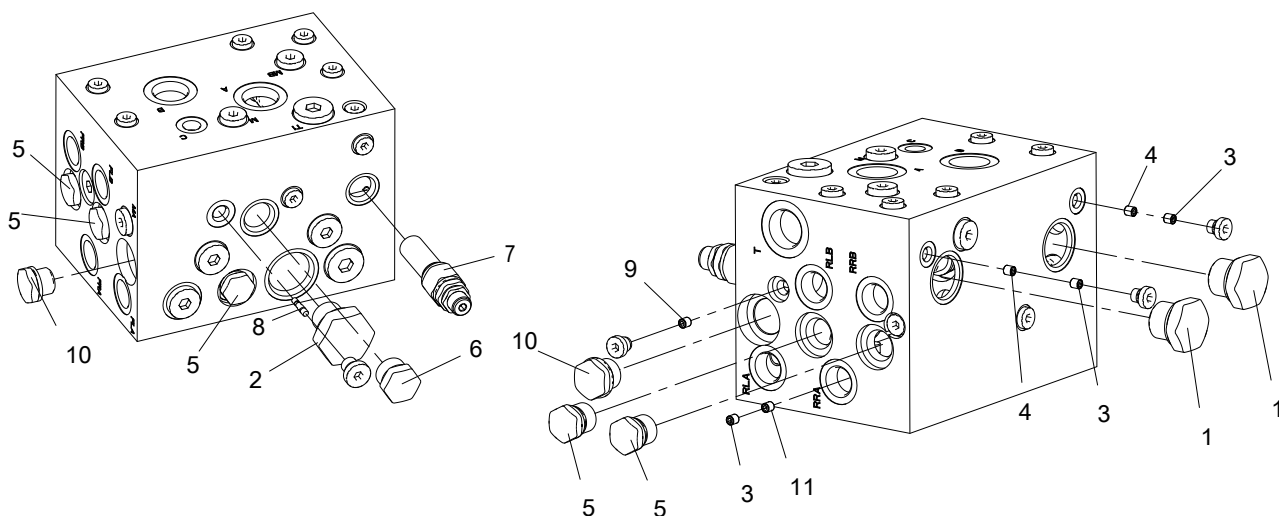
No.	Part No.	Qty.	Description
1	202990003065	1	Multi-way valve spool, oscillate
2	207060003007	2	O-ring

6.4 OSCILLATE COUNTERBALANCE VALVE(PN.202040003032)



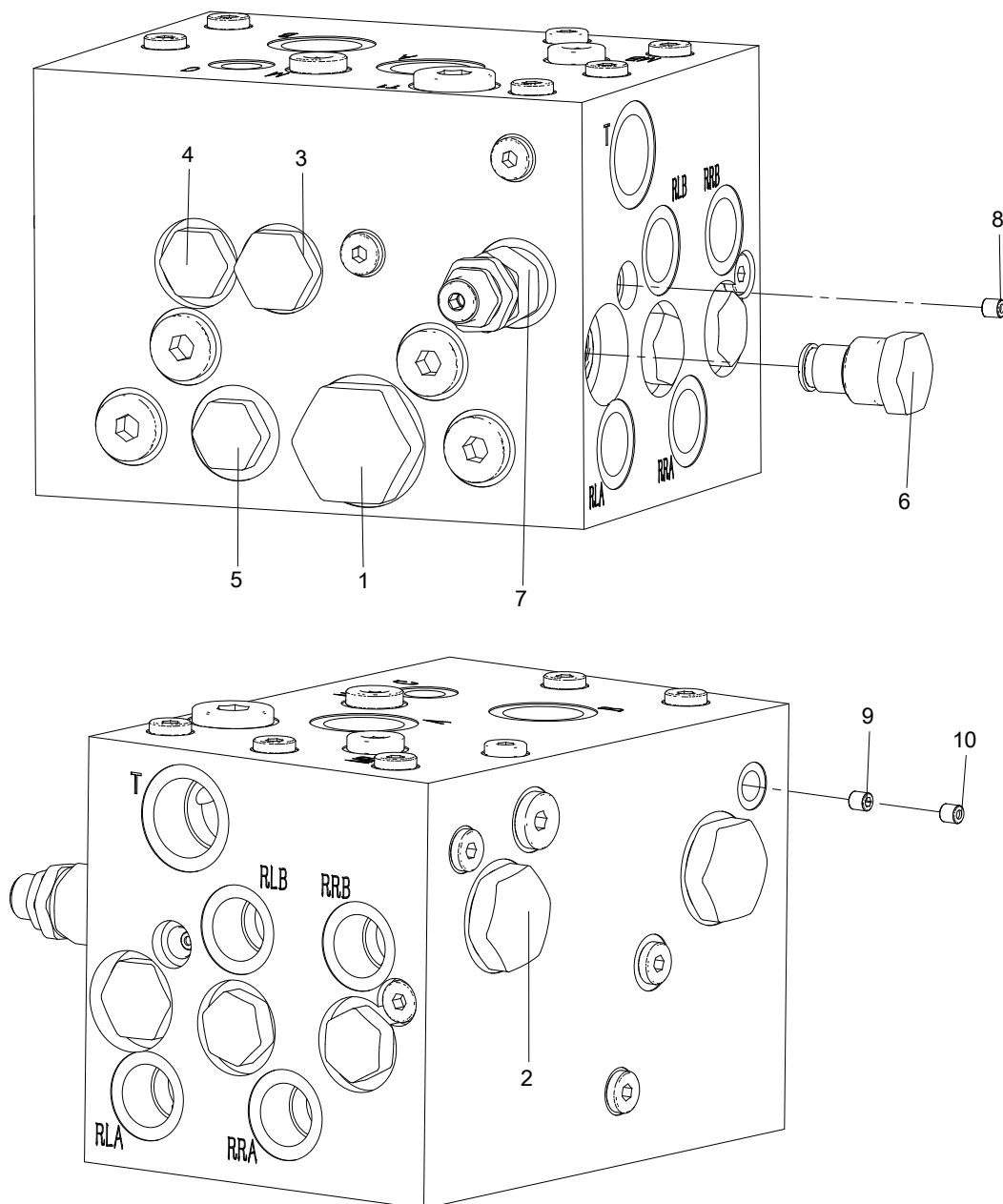
No.	Part No.	Qty.	Description
1	202040003216	2	Spool
2	207040003003	2	O-ring

6.5 DRIVE CONTROL VALVE (PN.202040000153)



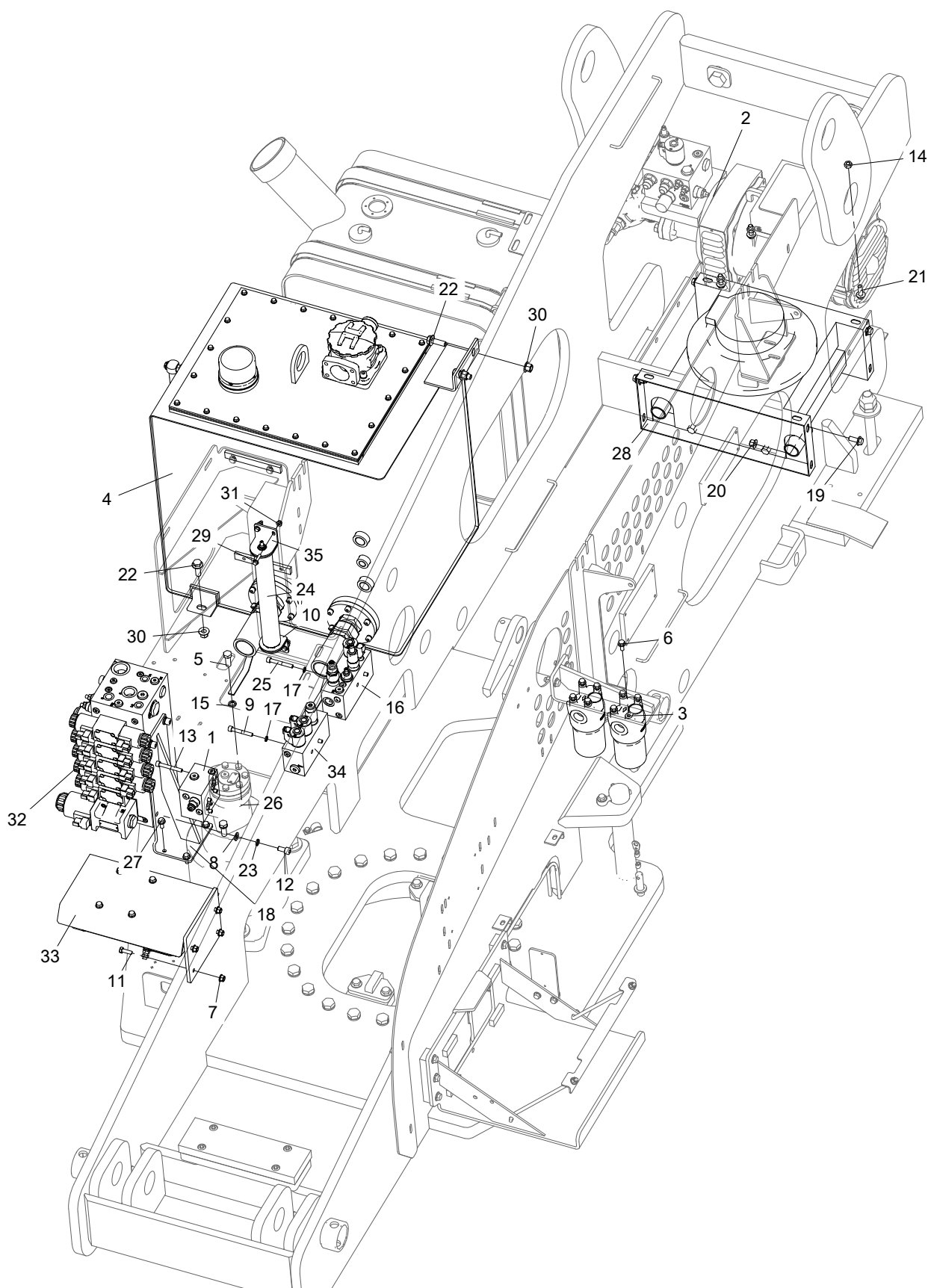
No.	Part No.	Qty.	Description
1	202990003110	2	Dividing-combining valve
2	202990003109	1	Dividing-combining valve
3	202130003004	3	Damper
4	202130000006	2	Damper plug
5	202990003071	5	Check valve
6	202990003108	1	Flushing valve
7	202990003082	1	Relief valve
8	202990003063	1	Shuttle valve
9	202130003015	1	Damper
10	202990003095	2	Check valve
11	202130000002	1	Plug

6.6 DRIVE CONTROL VALVE (PN.202040003250)



No.	Part No.	Qty.	Description
1	202990003109	1	Dividing-combining valve
2	202990003110	2	Dividing-combining valve
3	202990003108	1	Flushing valve
4	202990003272	1	Shuttle valve
5	202040003278	5	Check valve
6	202990003051	2	Check valve
7	202990003273	1	Relief valve
8	202130003015	1	Damper
9	202130000006	2	Damper plug
10	202130003004	3	Damper
11	202130003007	1	Damper

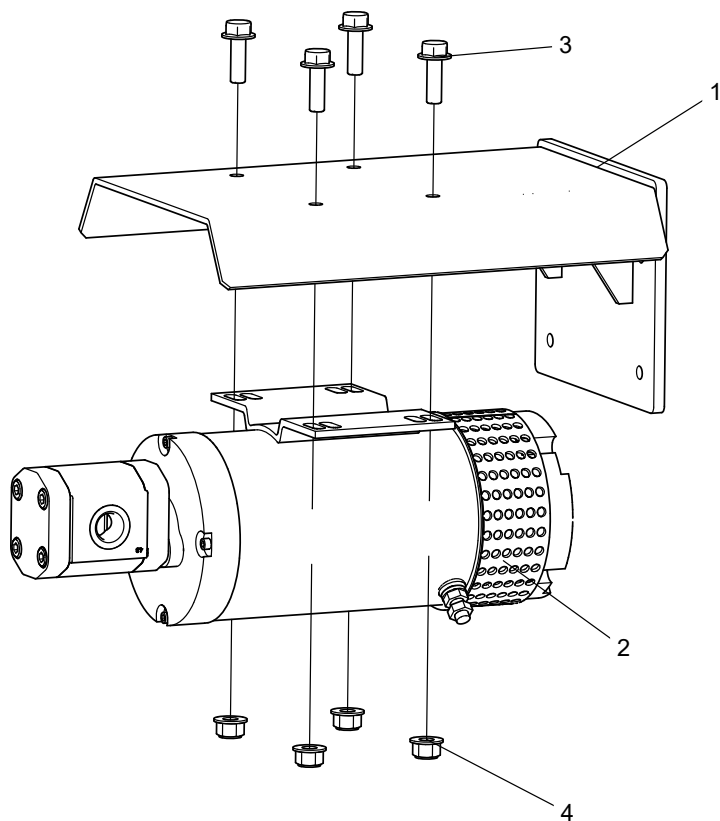
6.7 TURNTABLE HYDRAULIC COMPONENTS INSTALLATION



No.	Part No.	Qty.	Description
1	104019050017		Slewing buffer valve options
1-1	202040003061	1	Rotary Cushion Valve(1000176)
1-2	202040003257	1	Rotary buffer valve(1000282)
2	105050053035		Generator, options
2-1	203180003006	1	Hydraulic generator(Australia)
2-2	203180003002	1	Hydraulic generator (North America)
3	202080000046	2	High pressure filter
3a	202080000048	1	Filter element
4	105025023414	1	Hydraulic tank assembly
5	215010000092	2	Bolt M12×35-8.8-ZnD GB/T 5783
6	215010000264	8	Bolt M8×20-10.9-DKL GB/T 5789
7	215030000108	4	Nut M8-8-ZnD GB/T 6183
8	215040000035	4	Washer 10-200HV-ZnD GB/T 97.1
9	215020000036	2	Screw M8×55-10.9-DKLGB/T 70.1
10	105074053108	2	Cushion rubber
11	215010000058	4	Bolt M8×25-8.8-ZnD GB/T 5783
12	215020000048	4	Screw M10×20-8.8-ZnD GB/T 70.1
13	215020000038	4	Screw M8×60-8.8-ZnD GB/T 70.1
14	215030000006	3	Nut M10-8-ZnD GB/T 6170
15	215040000007	2	Washer 12-ZnD GB/T 93
16	202040003039	1	Oscillate control vlave
17	215040000005	4	Washer 8-ZnD GB/T 93
18	105001020180	1	Bracket, boom function manifold
19	215010000238	4	Bolt M10×25-8.8-ZnD GB/T 5789
20	215030000109	4	Nut M10-8-ZnD GB/T 6183
21	215010000239	3	Bolt M10×30-8.8-ZnD GB/T 5789
22	215010000270	4	Bolt M12×35-10.9-DKL GB/T 5789
23	215040000006	4	Washer 10-ZnD GB/T 93
24	202090003002	1	Accumulator, piston type
25	215020000039	2	Screw, M8×60-10.9-DKL GB/T 70.1
26	202020000005	1	Cycloid motor
26a	207990003032	1	Seal kit, Cycloid motor
27	215010000234	4	Bolt M8×20-8.8-ZnD GB/T 5789
28	202060000001	1	Air cooler
29	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
30	215030000110	4	Nut M12-8-ZnD GB/T 6183
31	215030000107	4	Nut M6-8-ZnD GB/T 6183
32	202040003176	1	Boom function manifold

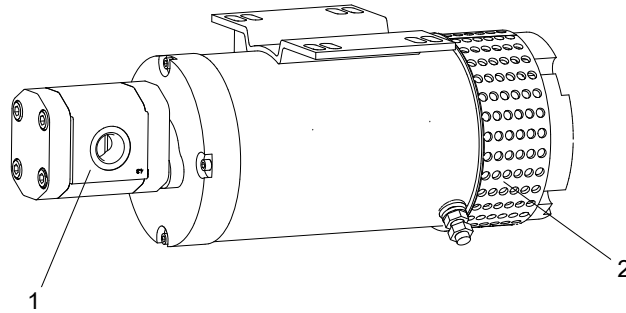
No.	Part No.	Qty.	Description
33	105001020157	1	Power unit installation
34	202040000006	1	Brake/2-speed control valve(12V)
35	105050053010	2	Bracket

6.8 POWER UNIT INSTALLATION



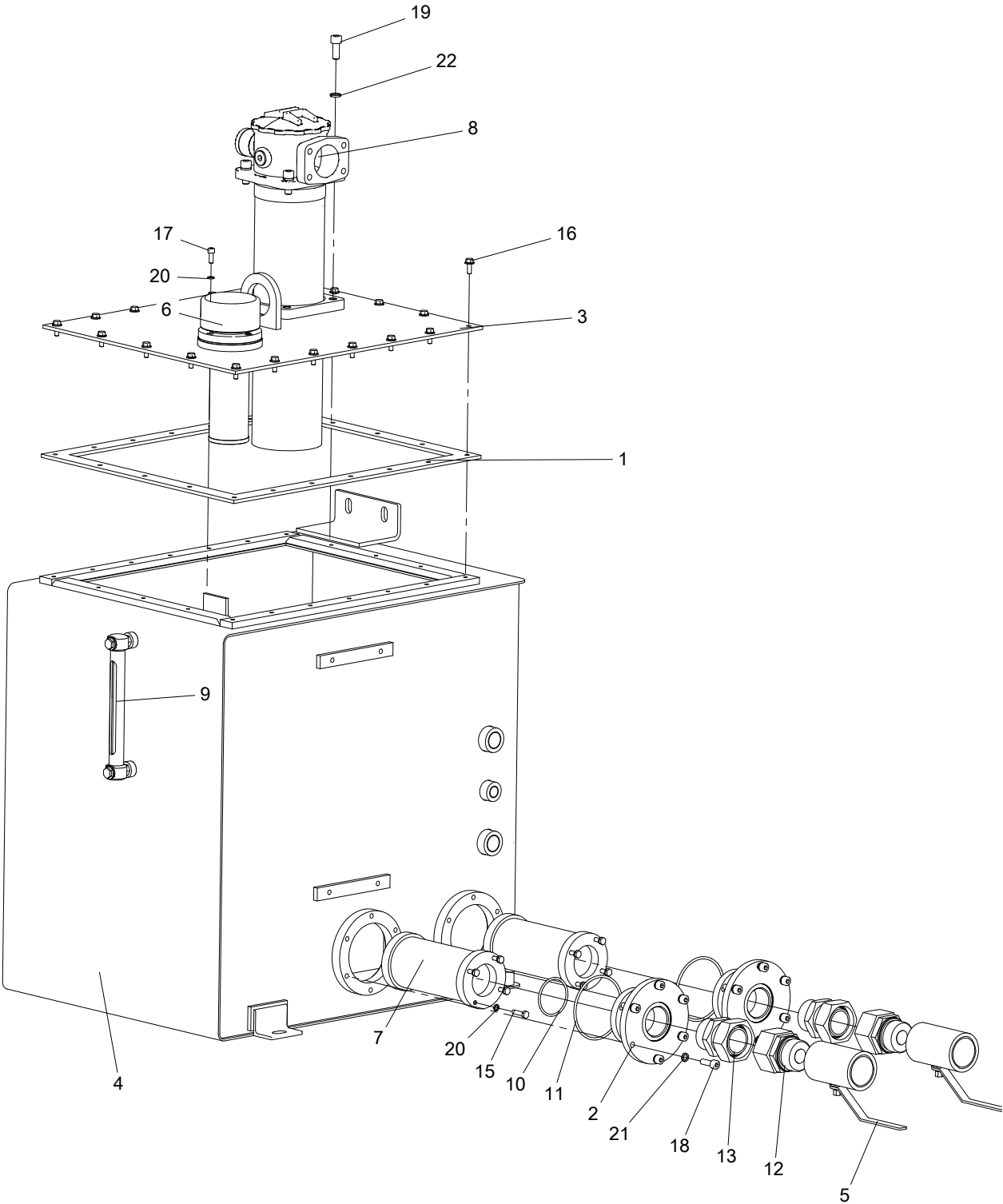
No.	Part No.	Qty.	Description
1	105001020254	1	Bracket
2	202010000041	1	Power unit, 12V
3	215010000235	4	Bolt M8×25-8.8-ZnD GB/T 5789
4	215030000108	4	Nut M8-8-ZnD GB/T 6183

6.9 POWER UNIT (PN.202010000041)



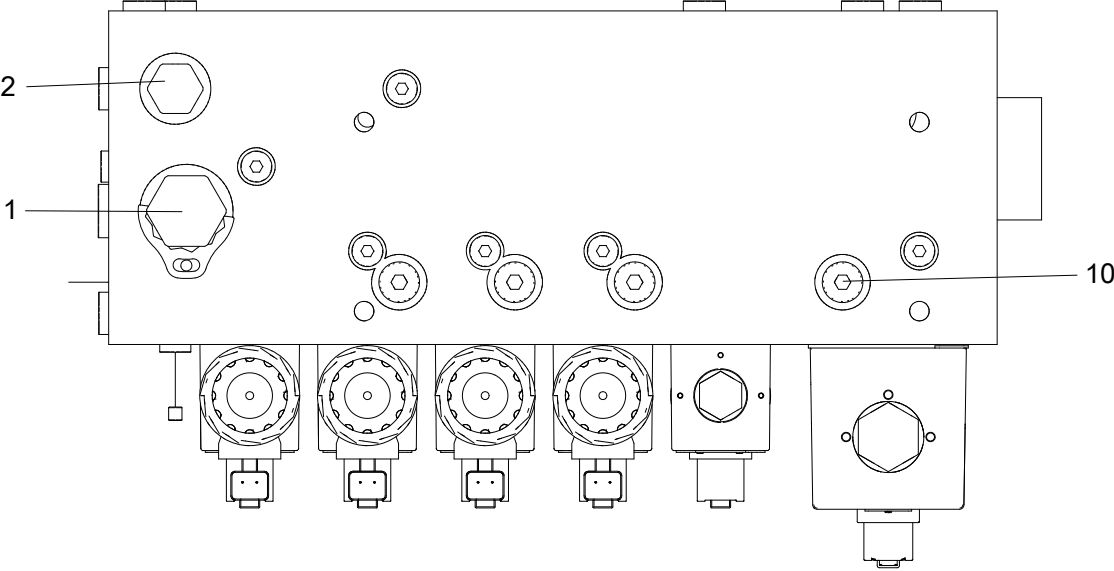
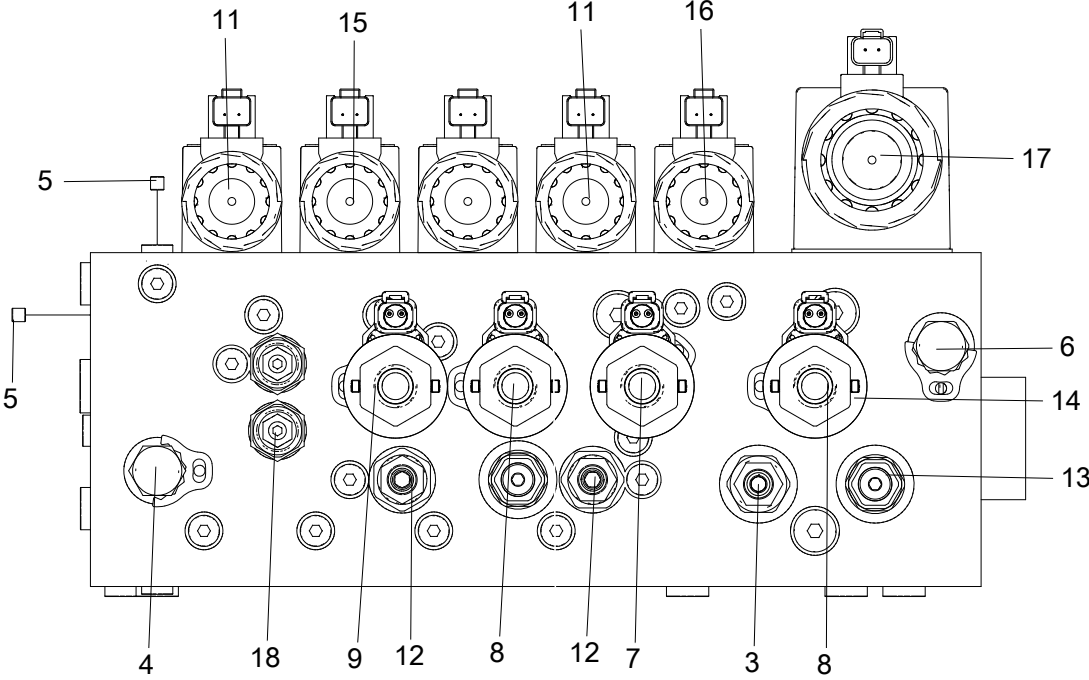
No.	Part No.	Qty.	Description
1	202010003073	1	Gear pump
1a	207990003107	1	Seal kit, gear pump
2	203010003058	1	DC Motor

6.10 HYDRAULIC TANK ASSEMBLY (PN.105025023414)



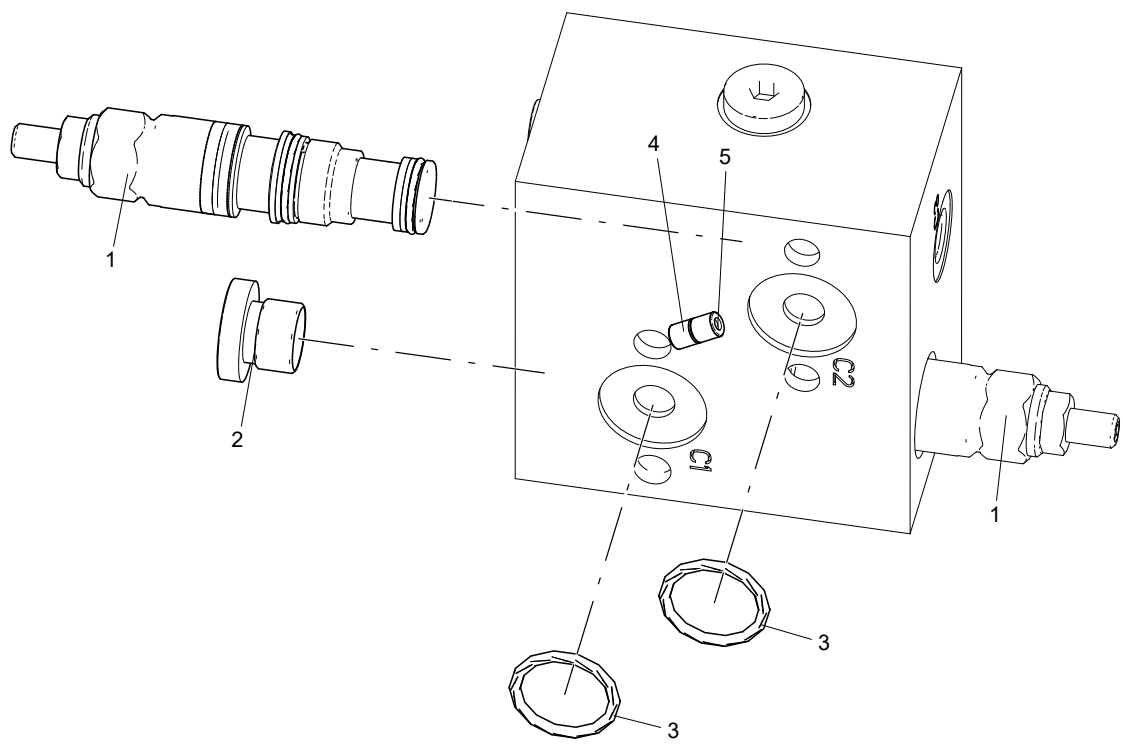
No.	Part No.	Qty.	Description
1	105001020021	1	Gasket, rubber
2	105001020024	2	Flange
3	105025023415	1	Cover
4	105025023417	1	Housing
5	202040000017	2	Valve
6	202070003014	1	Air filter
6a	202070003015	1	Filter element
7	202080000004	2	Suction filter
8	202080000005	1	Return filter
8a	202080003012	1	Filter element
9	202120000004	1	Liquid level indicator
10	207040000024	1	O-ring 60×3.1 GB 1235
11	207040003004	2	O-ring
12	213010000058	2	Fitting
13	213010000059	2	Fitting
14	213060000006	1	Plug
15	215010000052	8	Bolt M6×25-A2-70 GB/T 5783
16	215010000230	20	Bolt M6×16-8.8-ZnD GB/T 5789
17	215020000011	4	Screw M6×16-A2-70 GB/T 70.1
18	215020000024	12	Screw M8×25-8.8-ZnD GB/T 70.1
19	215020000049	4	Screw M10×25-8.8-ZnD GB/T 70.1
20	215040000004	12	Washer 6-A2-70 GB/T 93
21	215040000005	12	Washer 8-ZnD GB/T 93
22	215040000006	4	Washer 10-ZnD GB/T 93

6.11 BOOM FUNCTION MANIFOLD (PN.202040003176)



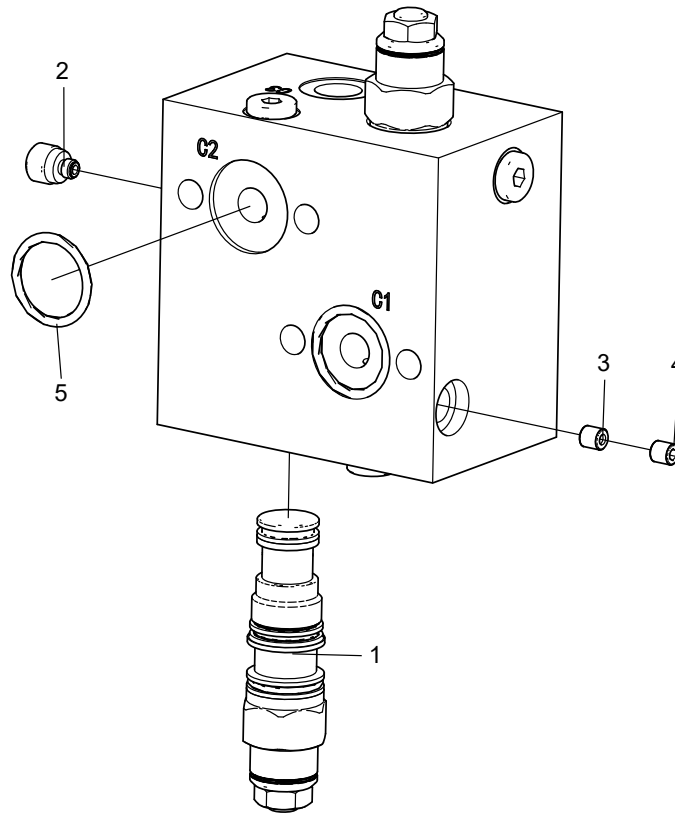
No.	Part No.	Qty.	Description
1	202990003146	1	Check Valves
2	202990003071	1	Check valve
3	202040003205	1	Relief valve
4	202990003147	1	Compensator valve
5	202130000008	1	Damper plug
6	202040003206	1	Flow valve
7	202990000009	1	Spool
8	202990000007	2	Spool
9	202990000005	1	Spool
10	202040000410	4	Check valve
11	202990003148	3	Solenoid directional valve
12	202040003151	2	Relief valve
13	202990000011	2	Spool
14	202990003170	1	Solenoid directional valve
15	202990003149	1	Solenoid directional valve
16	202990003150	1	Solenoid directional valve
17	202040003207	2	Spool
18	202990000038	4	Coil
19	202130003003	1	Damper

6.12 SLEWING BUFFER VALVE (PN.202040003061)



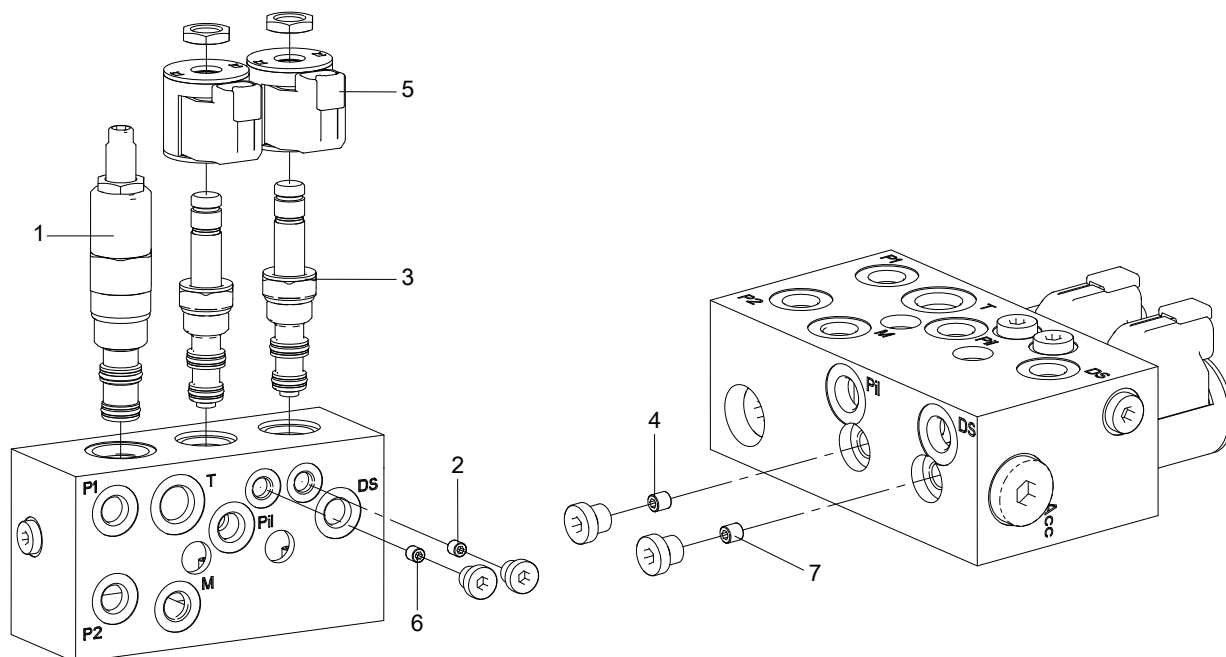
No.	Part No.	Qty.	Description
1	202990003036	2	Counterbalance valve spool
2	202990003063	1	Shuttle valve
3	207040003051	2	O-ring
4	202130003004	1	Damper
5	202130003003	1	Damper

6.13 SLEWING BUFFER VALVE (PN.202040003257)



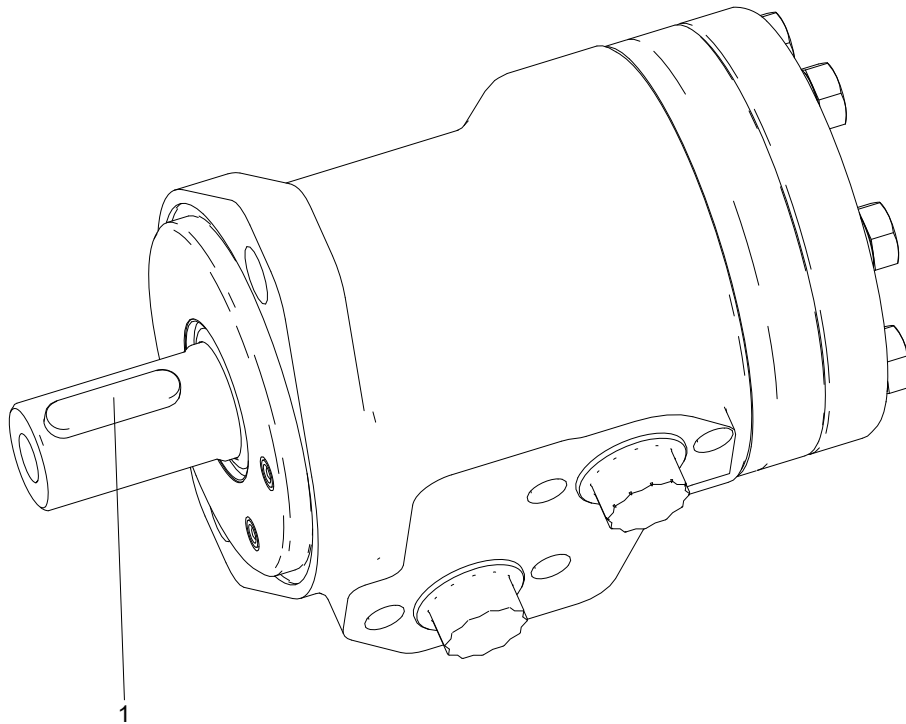
No.	Part No.	Qty.	Description
1	202990003274	2	Balance valve
2	202990003062	1	Shuttle valve
3	202130003003	1	Damper
4	202130003004	1	Damper
5	207040003051	2	O-ring

6.14 BRAKE/2-SPEED CONTROL VALVE (PN.202040000006)



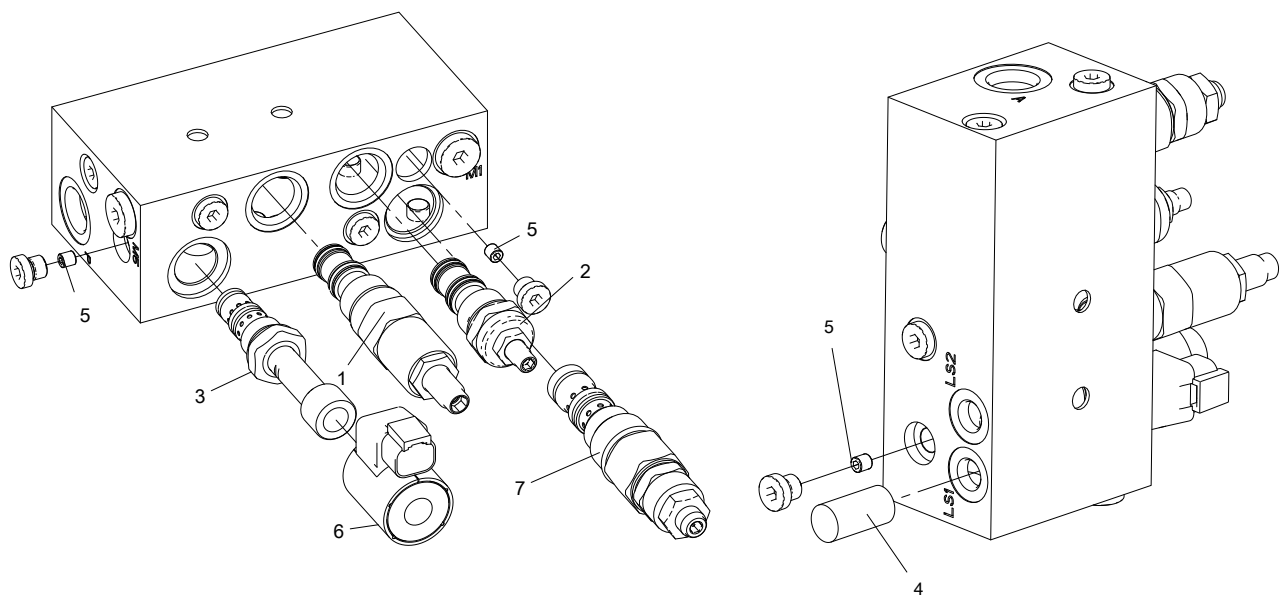
No.	Part No.	Qty.	Description
1	202990003103	1	Relief valve
2	202130000008	1	Damper plug
3	202990003158	2	Solenoid valve
4	202130000004	1	Plug
5	202990000037	2	Coil
6	202130003015	1	Damper
7	202130000001	1	Damper

6.15 CYCLOID MOTOR(PN.202020000005)



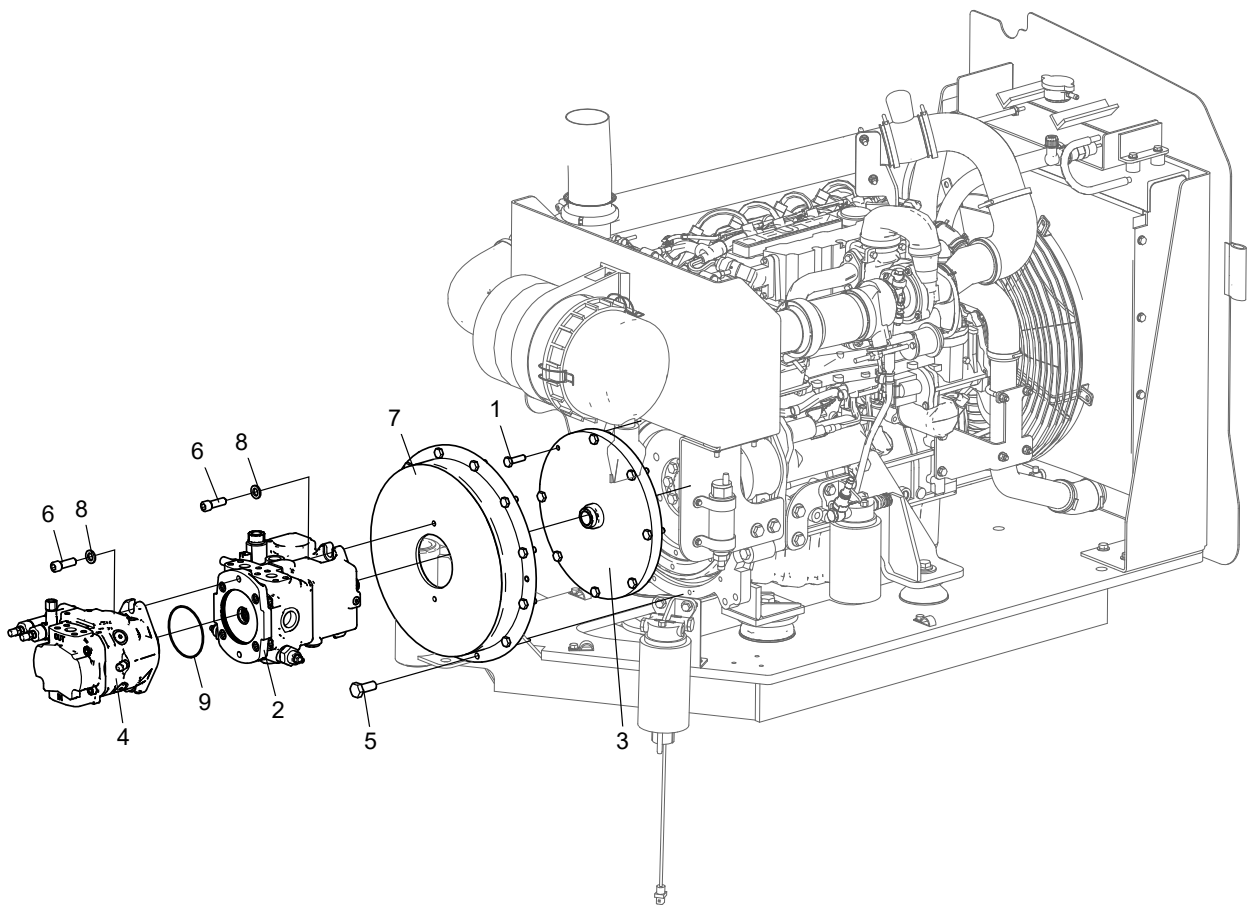
No.	Part No.	Qty.	Description
1	204200003000	1	Flat key

6.16 OSCILLATE CONTROL VLAVE(PN.202040003039)



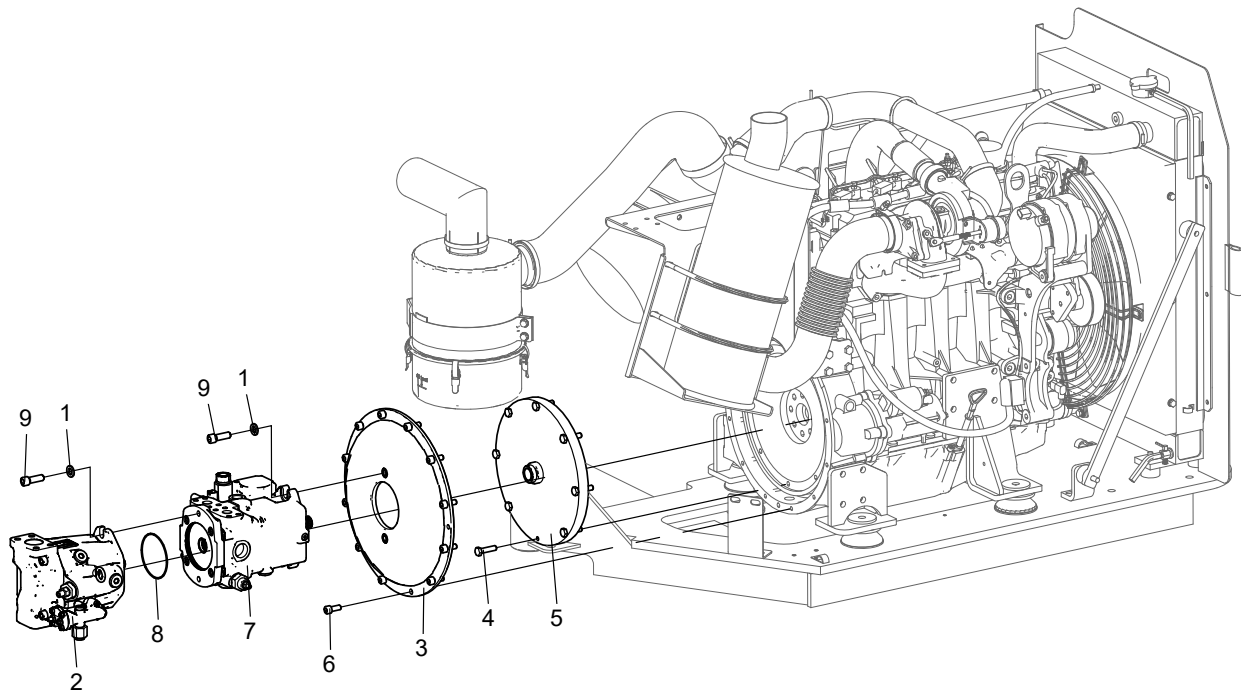
No.	Part No.	Qty.	Description
1	202040003345	1	Pressure reducing valve
2	202040003353	1	Flow valve
3	202990003136	1	Solenoid valve
4	202990003154	1	Shuttle valve
5	202130003003	3	Damper
6	202990003142	1	Coil

6.17 PUMP DRIVE UNIT(DEUTZ)



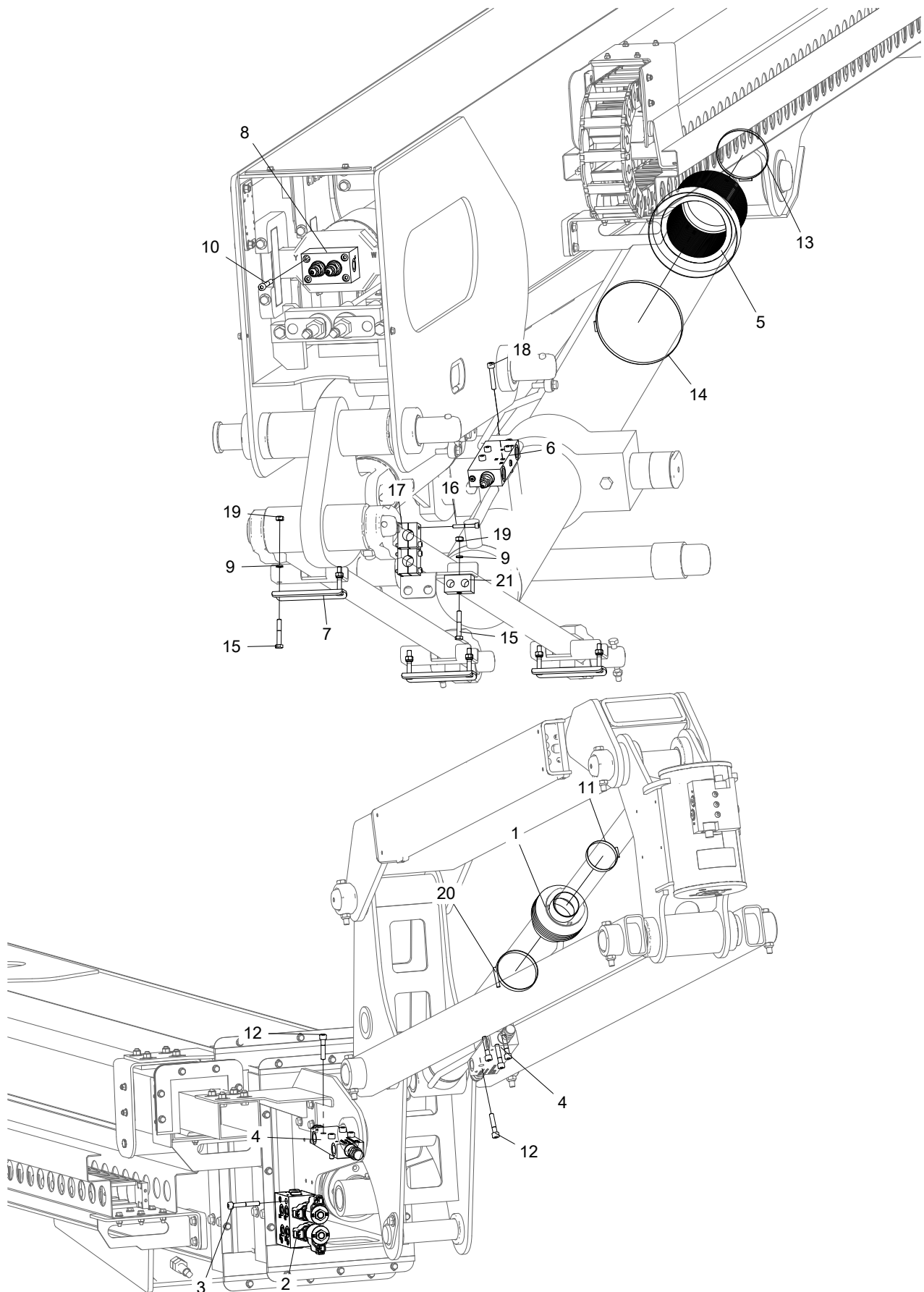
No.	Part No.	Qty.	Description
1	215010000073	8	Bolt M10×35-8.8-ZnD GB/T 5783
2	105001050065		Closed variable displacement pump options
2-1	202010000054	1	Closed variable displacement pump
2-1a	207990003118	1	Seal kit, closed-circuit pump
2-2	202010000045	1	Closed variable displacement pump
2-2a	207990003106	1	Seal kit,Closed-circuit pump
2-3	202010000005	1	Closed variable displacement pump
2-4	202010000006	1	Closed variable displacement pump
3	204040000002	1	Shaft coupling
4	105001050064		Pump options, open-circuit, variable displacement
4-1	202010000044	1	Pump, open-circuit, variable displacement
4-1a	207990003105	1	Seal kit, open-circuit pump
4-2	202010000029	1	Pump, open-circuit, variable displacement
4-2a	207990003108	1	Seal kit, open-circuit pump
4-3	202010000002	1	Pump, open-circuit, variable displacement
4-4	202010000055	1	Pump, open-circuit, variable displacement
4-4a	207990003121	1	Seal kit, open-circuit pump
5	215010000069	12	Bolt M10×25-8.8-ZnD GB/T 5783
6	215080000005	4	Screw 1/2"-13UNC-1.5inches GR5
7	105017050003	1	Flange
8	215040000051	4	Washer 12 GB/T 1230
9	207040000060	1	O-ring

6.18 PUMP DRIVE UNIT (CUMMIS)



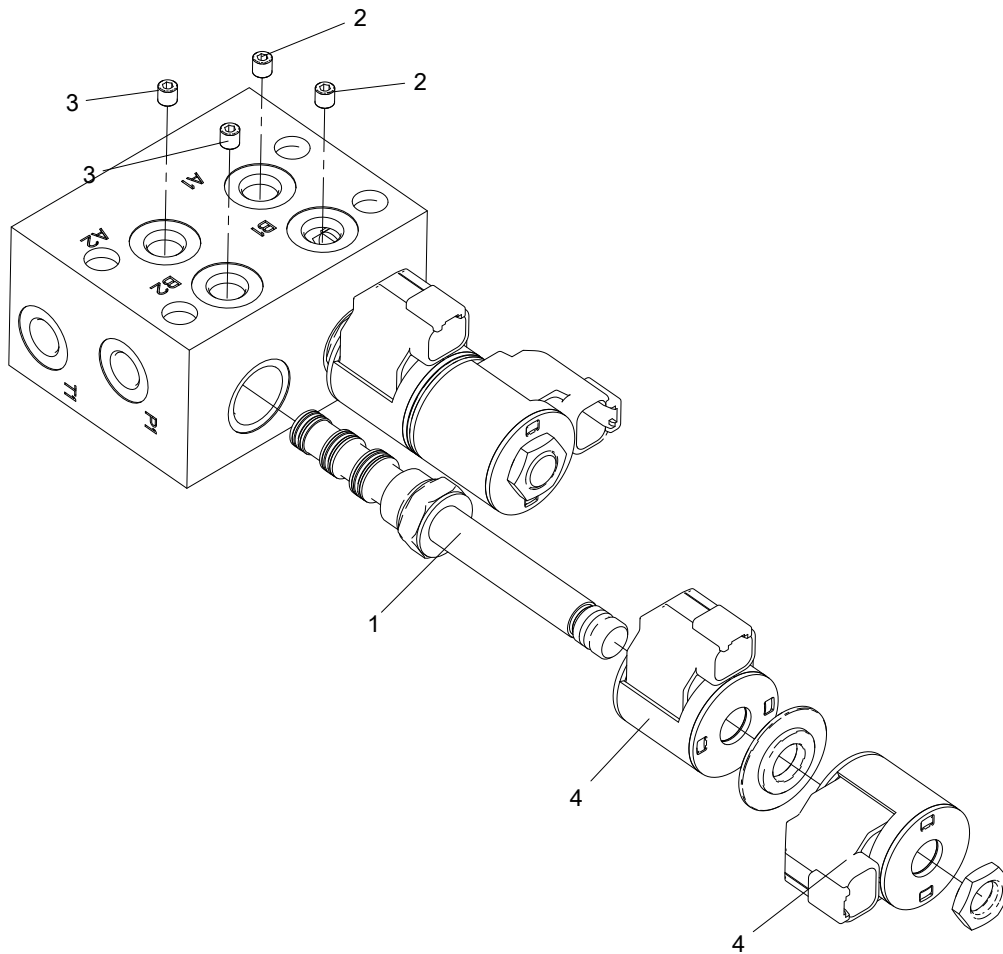
No.	Part No.	Qty.	Description
1	215040000051	4	Washer 12 GB/T 1230
2	105001050064		Pump options, open-circuit, variable displacement
2-1	202010000044	1	Pump, open-circuit, variable displacement
2-1a	207990003105	1	Seal kit, open-circuit pump
2-2	202010000055	1	Pump, open-circuit, variable displacement
2-2a	207990003121	1	Seal kit, open-circuit pump
2-3	202010000002	1	Pump, open-circuit, variable displacement
2-4	202010000029	1	Pump, open-circuit, variable displacement
2-4a	207990003108	1	Seal kit, open-circuit pump
3	105029023042	1	Flange
4	215010000075	8	Bolt M10×40-8.8-ZnD GB/T 5783
5	204040000002	1	Shaft coupling
6	215020000049	12	Screw M10×25-8.8-ZnD GB/T 70.1
7	105001050065		Closed variable displacement pump options
7-1	202010000045	1	Closed variable displacement pump
7-1a	207990003106	1	Seal kit,Closed-circuit pump
7-2	202010000005	1	Closed variable displacement pump
7-3	202010000054	1	Closed variable displacement pump
7-3a	207990003118	1	Seal kit, closed-circuit pump
7-4	202010000006	1	Closed variable displacement pump
8	207040000060	1	O-ring
9	215080000005	4	Screw 1/2"-13UNC-1.5inches GR5

6.19 BOOM HYDRAULIC COMPONENTS INSTALLATION



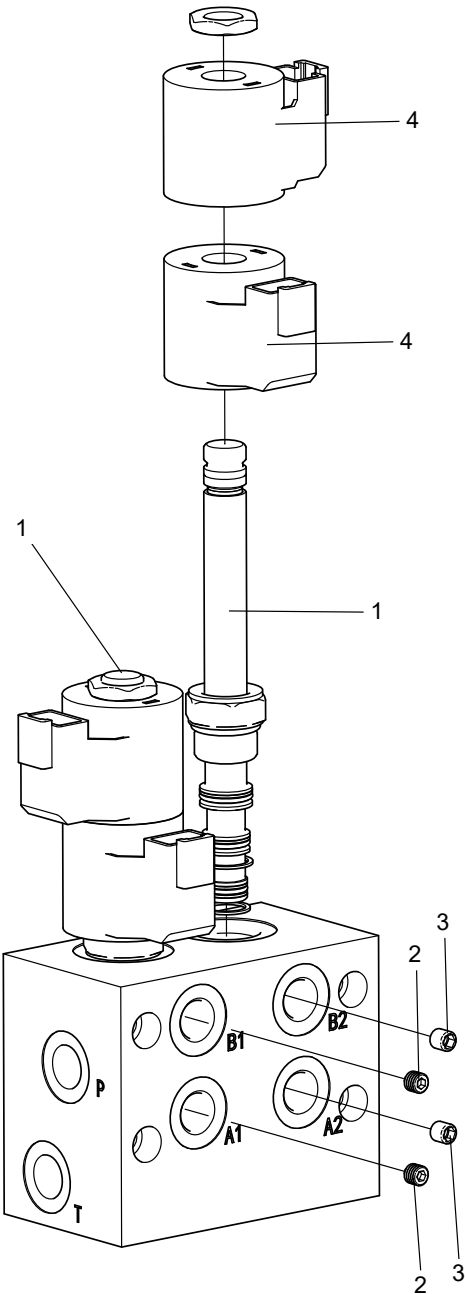
No.	Part No.	Qty.	Description
1	103005050008	1	Jacket, cylinder
2	105030050004		Platform duplex manifold options
2-1	202040000329	1	Platform manifold, duplex(1000176)
2-2	202040003259	1	Platform manifold, duplex(1000282)
3	215020000036	4	Screw M8×55-10.9-DKLGB/T 70.1
4	202040000011	2	Counterbalance valve, leveling
5	105050053011	1	Rod jacket, lift cylinder
6	202040000377	1	Lift counterbalance valve
7	103003050039	3	Bracket
8	202040003126	1	Telescope counterbalance valve
9	215040000005	7	Washer 8-ZnD GB/T 93
10	215020000042	4	Screw M8×70-10.9-DKL GB/T 70.1
11	216020000007	1	Clamp, non-perforated, DIN
12	215020000029	8	Screw M8×40-10.9-DKL GB/T 70.1
13	216020000026	1	Clamp
14	216020003010	1	Clamp
15	215010000163	7	Bolt M8×50-8.8-ZnD GB/T 5782
16	215020000017	4	Screw M6×45-A2-70 GB/T 70.1
17	216010000017	2	Clamp
18	215020000030	4	Screw M8×45-8.8-ZnD GB/T 70.1
19	215030000005	7	Nut M8-8-ZnD GB/T 6170
20	216020000009	1	Clamp
21	216010003006	1	Clamp

6.20 PLATFORM DUPLEX VALVE(PN.202040000329)



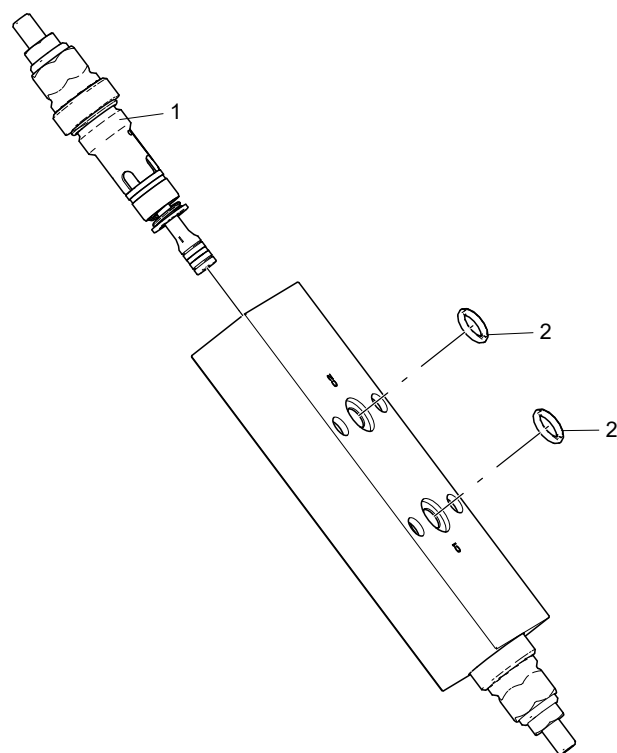
No.	Part No.	Qty.	Description
1	202040000399	2	Solenoid valve
2	202130000008	2	Damper plug
3	202130003005	2	Damper
4	202990000037	1	Coil

6.21 PLATFORM DUPLEX VALVE(PN.202040003259)



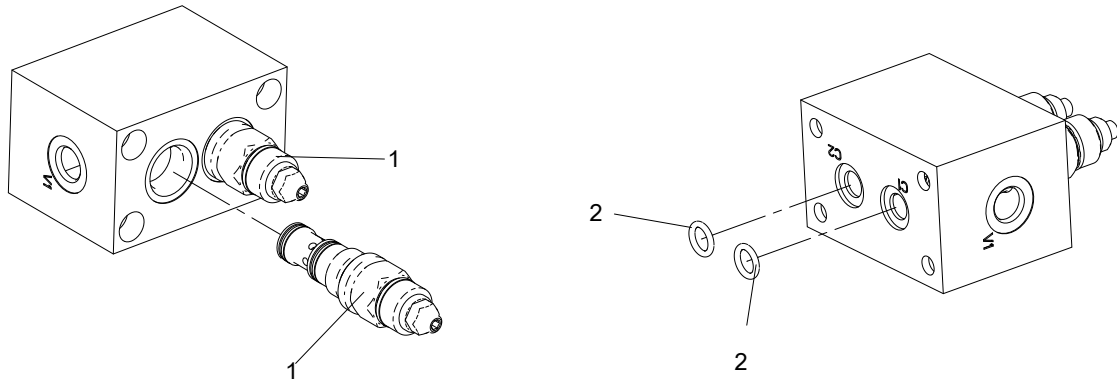
No.	Part No.	Qty.	Description
1	202040000399	2	Solenoid valve
2	202130000008	2	Damper plug
3	202130000001	2	Damper
4	202990003242	4	Coil

6.22 LEVELING COUNTERBALANCE VALVE (PN.20204000011)



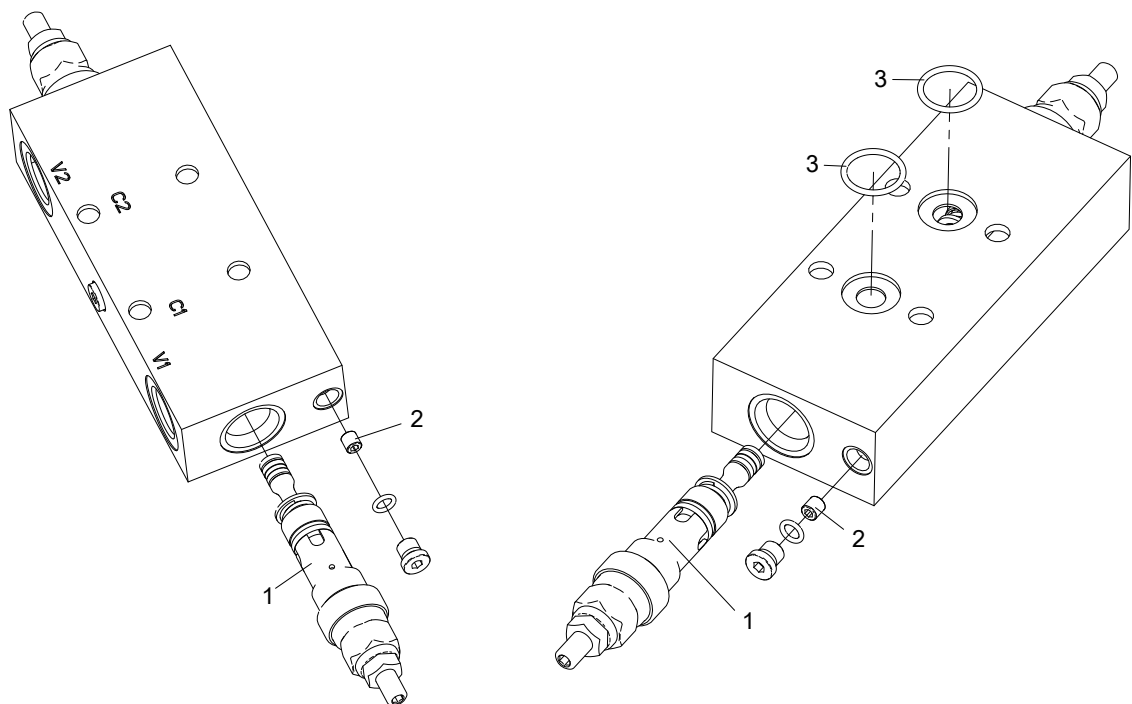
No.	Part No.	Qty.	Description
1	202990003040	2	Counterbalance valve spool
2	207040003003	2	O-ring

6.23 TELESCOPING COUNTERBALANCE VALVE (PN.202040003126)



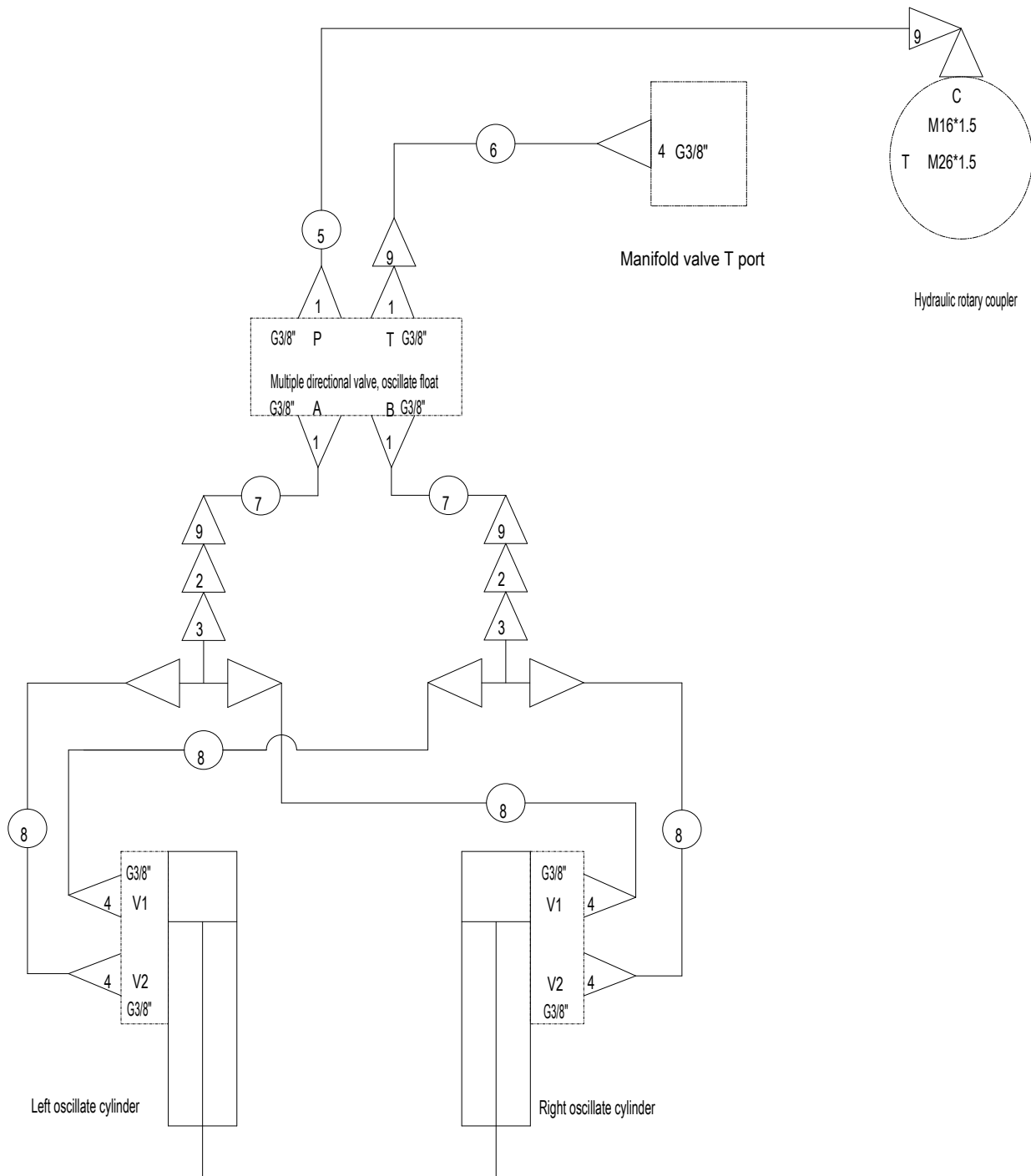
No.	Part No.	Qty.	Description
1	202990003097	2	Counterbalance valve spool
2	207060003005	2	O-ring

6.24 LIFT COUNTERBALANCE VALVE (PN.202040000377)



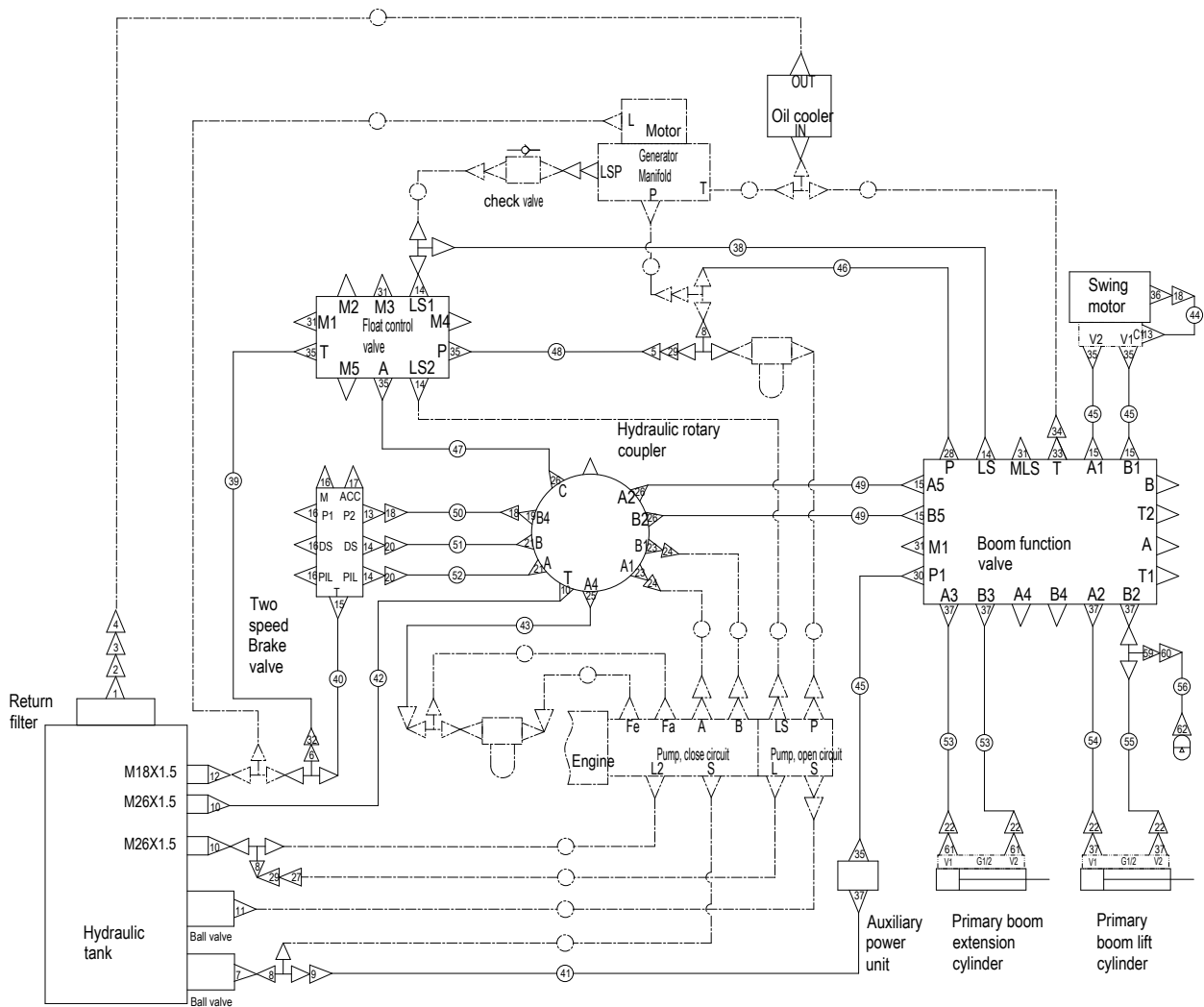
No.	Part No.	Qty.	Description
1	202990003156	2	Spool
2	202130003017	2	Damper

6.25 OSCILLATE PIPING LAYOUT



No.	Part No.	Qty.	Description
	105050053005	1	Oscillate piping layout
1	213010000005	4	Fitting
2	213010000087	2	Fitting
3	213010000155	2	Fitting
4	213010000136	4	Fitting
5	213050003100	1	Hose
6	213050000385	1	Hose
7	213050000059	2	Hose
8	213050003072	4	Hose
9	213010000055	4	Fitting

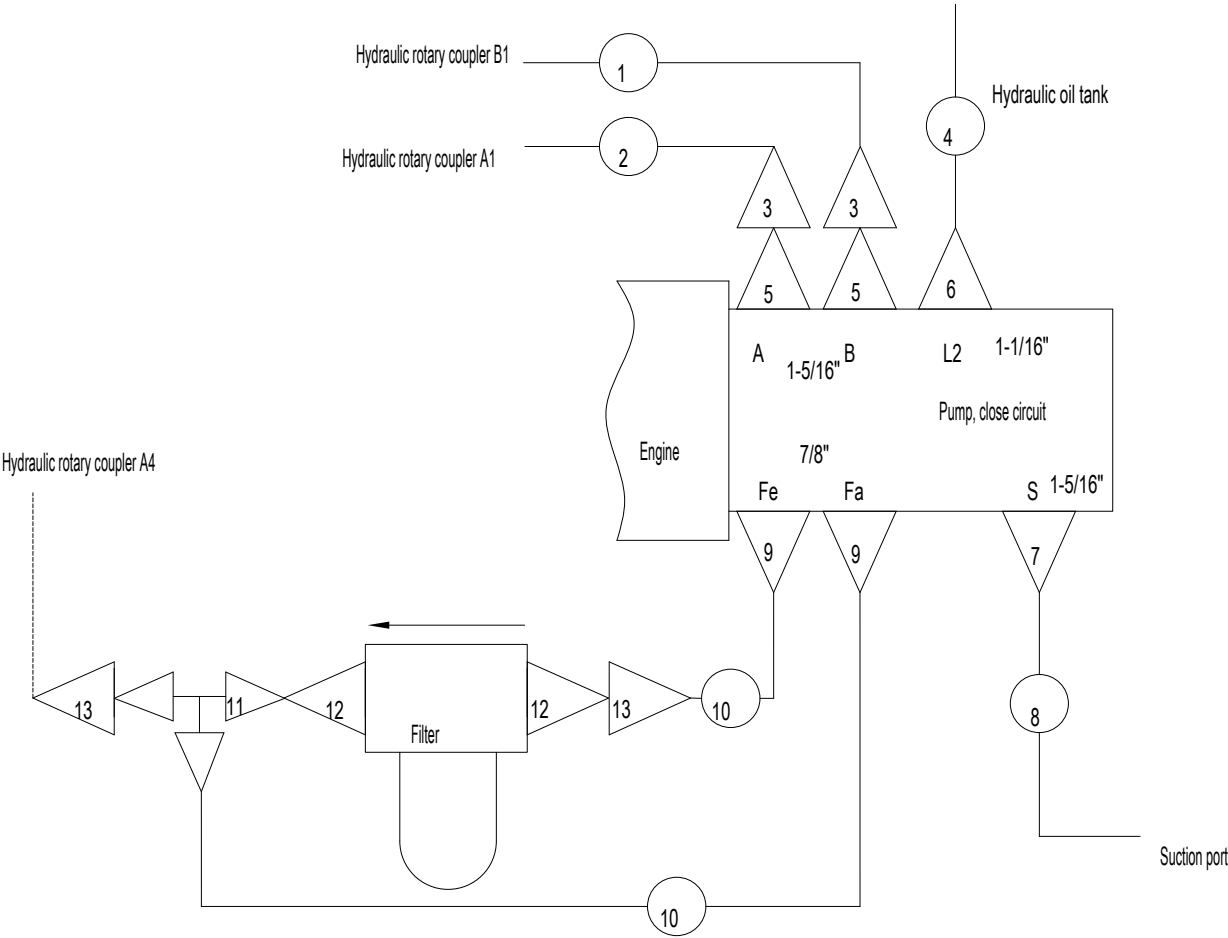
6.26 TURNTABLE TUBES LAYOUT



No.	Part No.	Qty.	Description
	105050053117	1	Turntable piping layout
1	207040000017	1	O-ring 53×3.55 GB/T 3452.1
2	215040000006	4	Washer 10-ZnD GB/T 93
3	215010000071	4	Bolt M10×30-8.8-ZnD GB/T 5783
4	104008050035	1	Flange
5	213010000046	1	Fitting
6	213010000032	1	Fitting
7	105001050002	1	Adapter
8	213010000043	3	Fitting
9	213010000098	1	Fitting
10	213010000037	3	Fitting
11	105001050011	1	Adapter
12	213010000086	1	Fitting
13	213010000012	2	Fitting
14	213010000007	4	Fitting
15	213010000005	5	Fitting
16	213060000003	4	Plug
17	213060000001	1	Plug
18	213010000009	3	Fitting
19	213010000049	1	Fitting
20	213010000024	2	Fitting
21	213010000202	2	Fitting
22	213010000008	4	Fitting
23	213010000030	2	Fitting
24	213010000022	2	Fitting
25	213010000065	1	Fitting
26	213010000031	3	Fitting
27	213010000104	1	Fitting
28	213010000045	1	Fitting
29	213010000041	2	Fitting
30	213010000036	1	Fitting
31	213010000010	4	Fitting
32	213010000055	1	Fitting
33	213010000148	1	Fitting
34	213010000164	1	Fitting
35	213010000038	6	Fitting

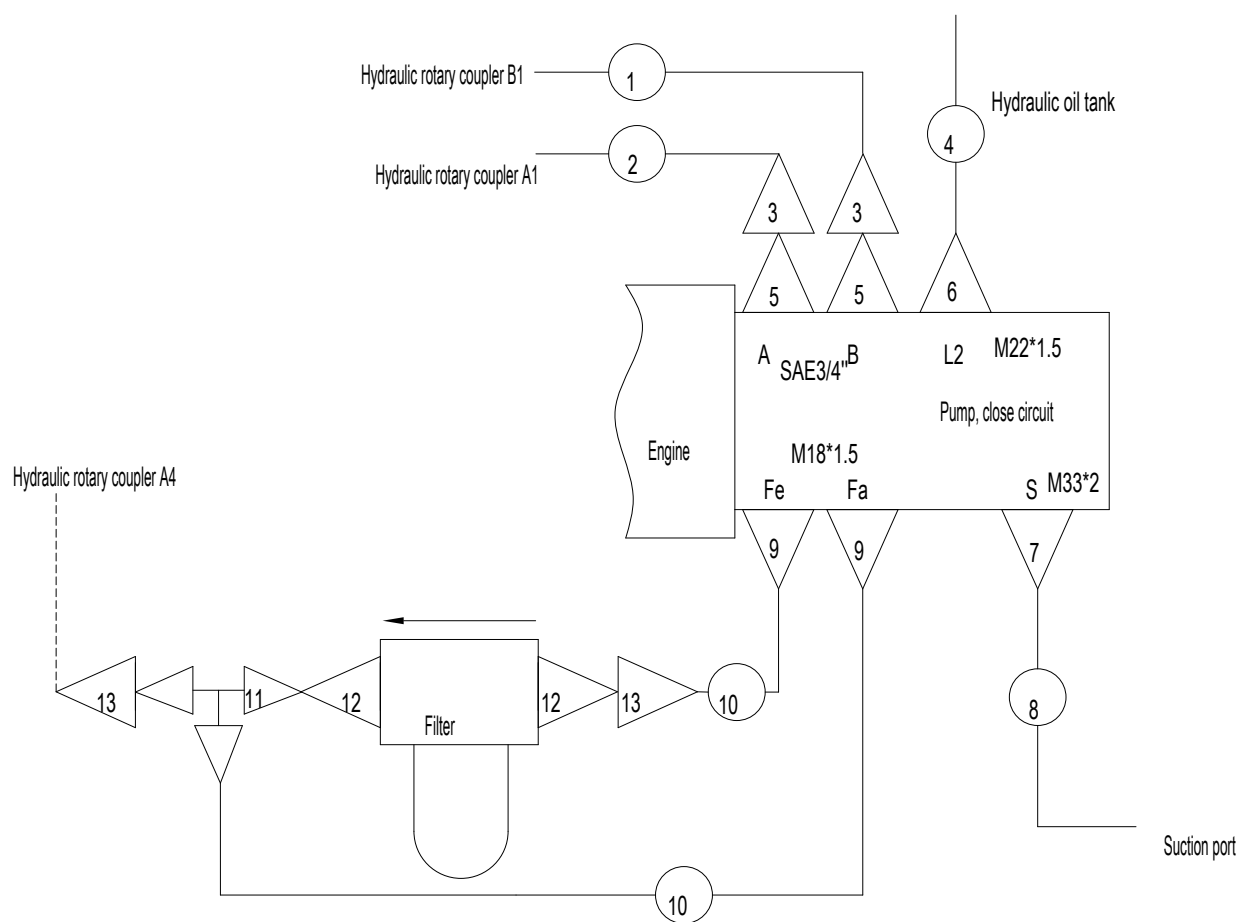
No.	Part No.	Qty.	Description
36	213010000057	1	Fitting
37	213010000039	7	Fitting
38	213050000621	1	Hose
39	213050001461	1	Hose
40	213050000385	1	Hose
41	213050000336	1	Hose
42	213050000628	1	Hose
43	213050003057	1	Hose
44	213050003232	1	Hose
45	213050000032	3	Hose
46	213050000737	1	Hose
47	213050003223	1	Hose
48	213050000254	1	Hose
49	213050000048	2	Hose
50	213050000143	1	Hose
51	213050000393	1	Hose
52	213050000616	1	Hose
53	213050000526	2	Hose
54	213050000598	1	Hose
55	213050000492	1	Hose
56	213050000196	1	Hose
57	105050053006	1	Closed variable displacement pump piping layout options
57-1	105050053008	1	Piping layout, closed variable displacement pump
57-2	105068053055	1	Closed variable displacement pump piping layout options
58	105050053007	1	Open variable displacement pump piping layout option
58-1	105050053009	1	Piping layout, open variable displacement pump
58-2	105068053060	1	Piping layout, open variable displacement pump
59	213010000078	1	Fitting
60	213010000160	1	Fitting
61	213010000003	2	Fitting
62	213010000144	1	Fitting

6.27 CLOSED PUMP(PN.202010000054)TUBES LAYOUT



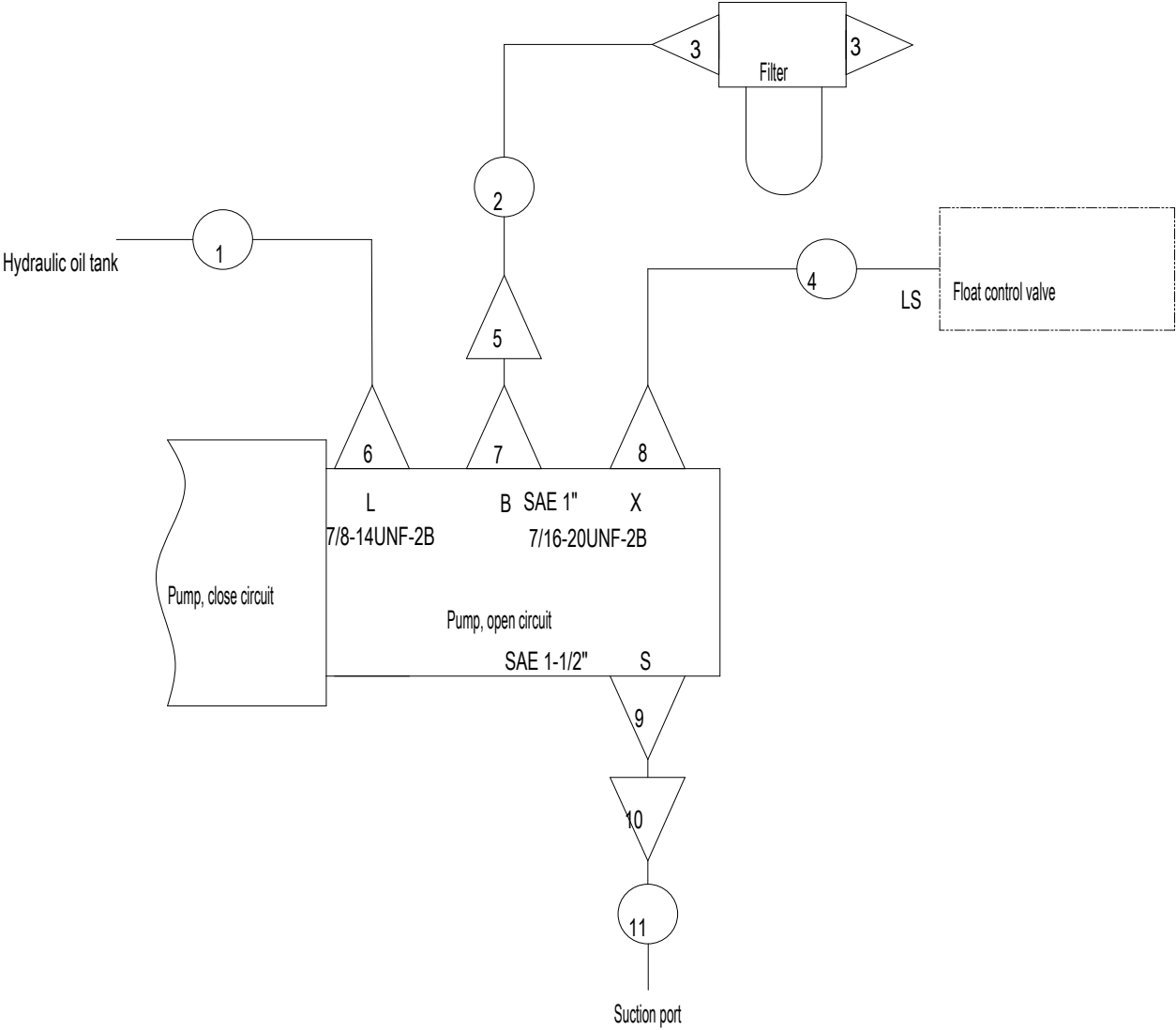
No.	Part No.	Qty.	Description
	105050053008	1	Piping layout, closed variable displacement pump
1	213050000042	1	Hose
2	213050000020	1	Hose
3	213010000022	2	Fitting
4	213050000644	1	Hose
5	213010000027	2	Fitting
6	213010000029	1	Fitting
7	213010003017	1	Fitting
8	213050000861	1	Hose
9	213010000162	2	Fitting
10	213050001000	2	Hose
11	213010000078	1	Fitting
12	213010000014	2	Fitting
13	213010000008	2	Fitting

6.28 CLOSED PUMP(PN.202010000045)TUBES LAYOUT



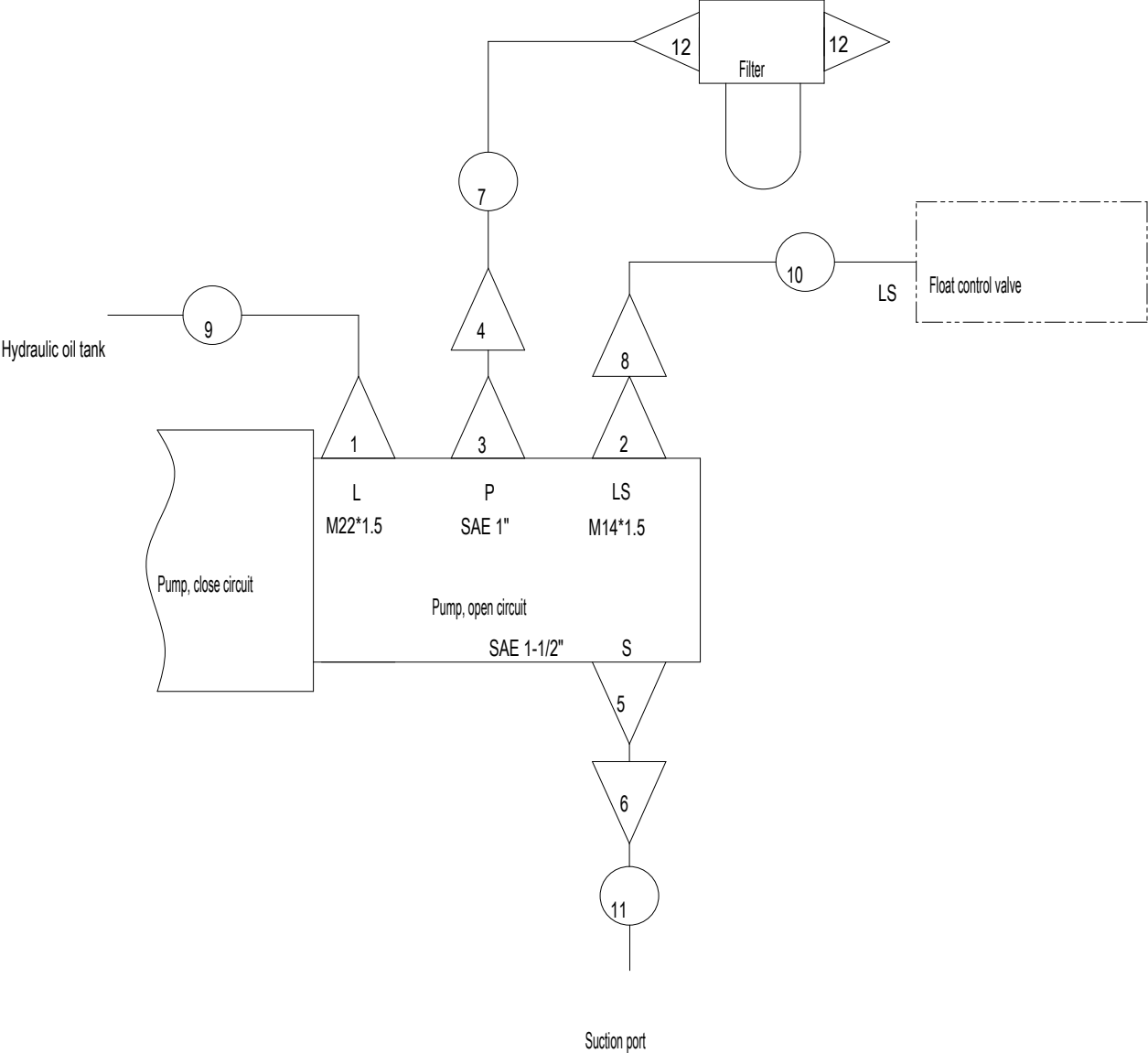
No.	Part No.	Qty.	Description
	105068053055	1	Closed variable displacement pump piping layout options
1	213050000042	1	Hose
2	213050000020	1	Hose
3	215020000050	8	Screw M10×30-8.8-ZnD GB/T 70.1
4	213050000644	1	Hose
5	213030000018	2	Flange
6	213010000168	1	Fitting
7	213010000103	1	Fitting
8	213050000861	1	Hose
9	213010000108	2	Fitting
10	213050001000	2	Hose
11	213010000078	1	Fitting
12	213010000014	2	Fitting
13	213010000008	2	Fitting

6.29 OPEN PUMP(PN.202010000044)TUBES LAYOUT



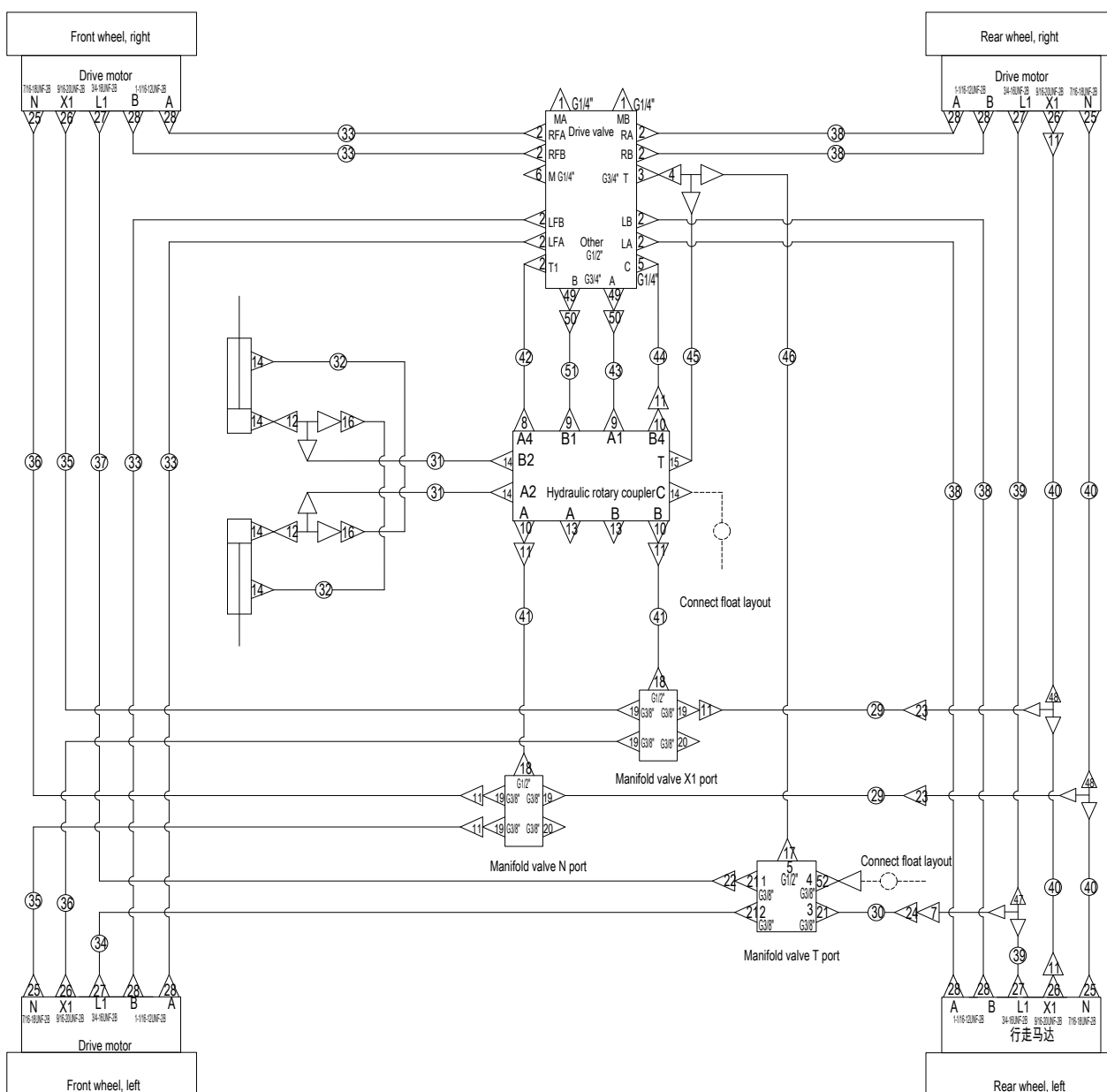
No.	Part No.	Qty.	Description
	105068053060	1	Piping layout, open variable displacement pump
1	213050003103	1	Hose
2	213050000742	1	Hose
3	213010000045	1	Fitting
4	213050000749	1	Hose
5	215080000002	4	Screw 3/8"-16UNF-1inches GR5
6	213010000159	1	Fitting
7	213030000022	1	Flange
8	213010000013	1	Fitting
9	213030000012	1	Flange
10	215080000003	4	Screw 1/2"-13UNC-1.25inches GR8
11	213050000527	1	Hose

6.30 OPEN PUMP(PN.202010000055)TUBES LAYOUT



No.	Part No.	Qty.	Description
	105050053009	1	Piping layout, open variable displacement pump
1	213010000069	1	Fitting
2	213010000209	1	Fitting
3	213030000022	1	Flange
4	215020000050	4	Screw M10×30-8.8-ZnD GB/T 70.1
5	213030000012	1	Flange
6	215020000073	4	Screw M12×30-8.8-ZnD GB/T 70.1
7	213050000742	1	Hose
8	213010000024	1	Fitting
9	213050003103	1	Hose
10	213050000749	1	Hose
11	213050000527	1	Hose
12	213010000045	2	Fitting

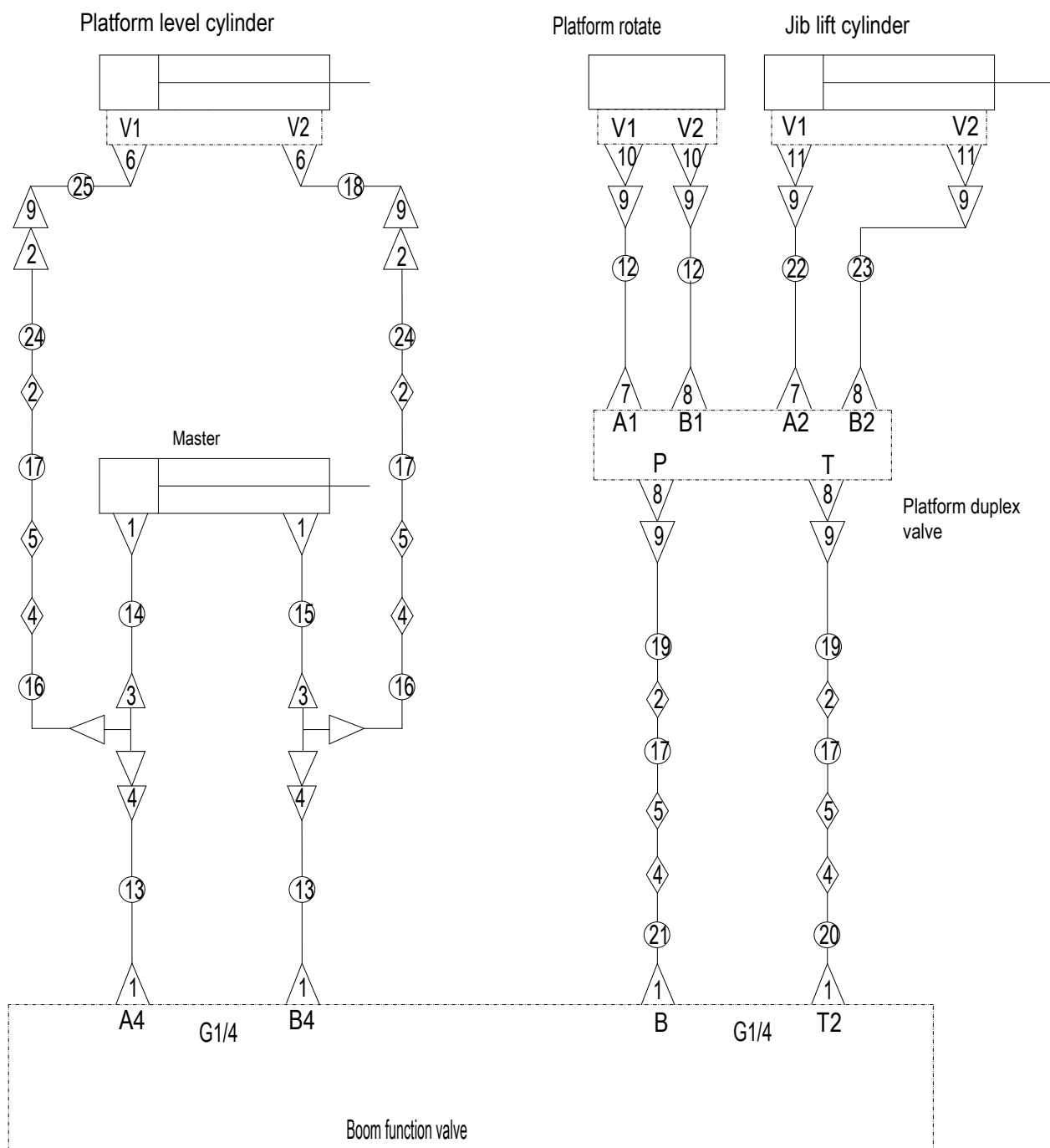
6.31 TRACTION TUBES LAYOUT



No.	Part No.	Qty.	Description
	105050053002	1	Traction piping layout
1	213010000010	2	Fitting
2	213010000039	9	Fitting
3	213010000045	1	Fitting
4	213010000043	1	Fitting
5	213010000007	1	Fitting
6	213060000003	4	Plug
7	213010000170	1	Fitting
8	213010000065	1	Fitting
9	213010000052	2	Fitting
10	213010000202	3	Fitting
11	213010000024	8	Fitting
12	213010000032	2	Fitting
13	213060000002	2	Plug
14	213010000031	7	Fitting
15	213010000037	1	Fitting
16	213010000055	2	Fitting
17	213010000017	1	Fitting
18	213010000138	2	Fitting
19	213010000047	6	Fitting
20	213060000001	2	Plug
21	213010000003	3	Fitting
22	213010000008	1	Fitting
23	213010000139	2	Fitting
24	213010000110	1	Fitting
25	213010000013	4	Fitting
26	213010000144	4	Fitting
27	213010000106	4	Fitting
28	213010000152	8	Fitting
29	213050000256	2	Hose
30	213050000575	1	Hose
31	213050000411	2	Hose
32	213050000044	2	Hose
33	213050000492	4	Hose
34	213050000612	1	Hose
35	213050000608	2	Hose

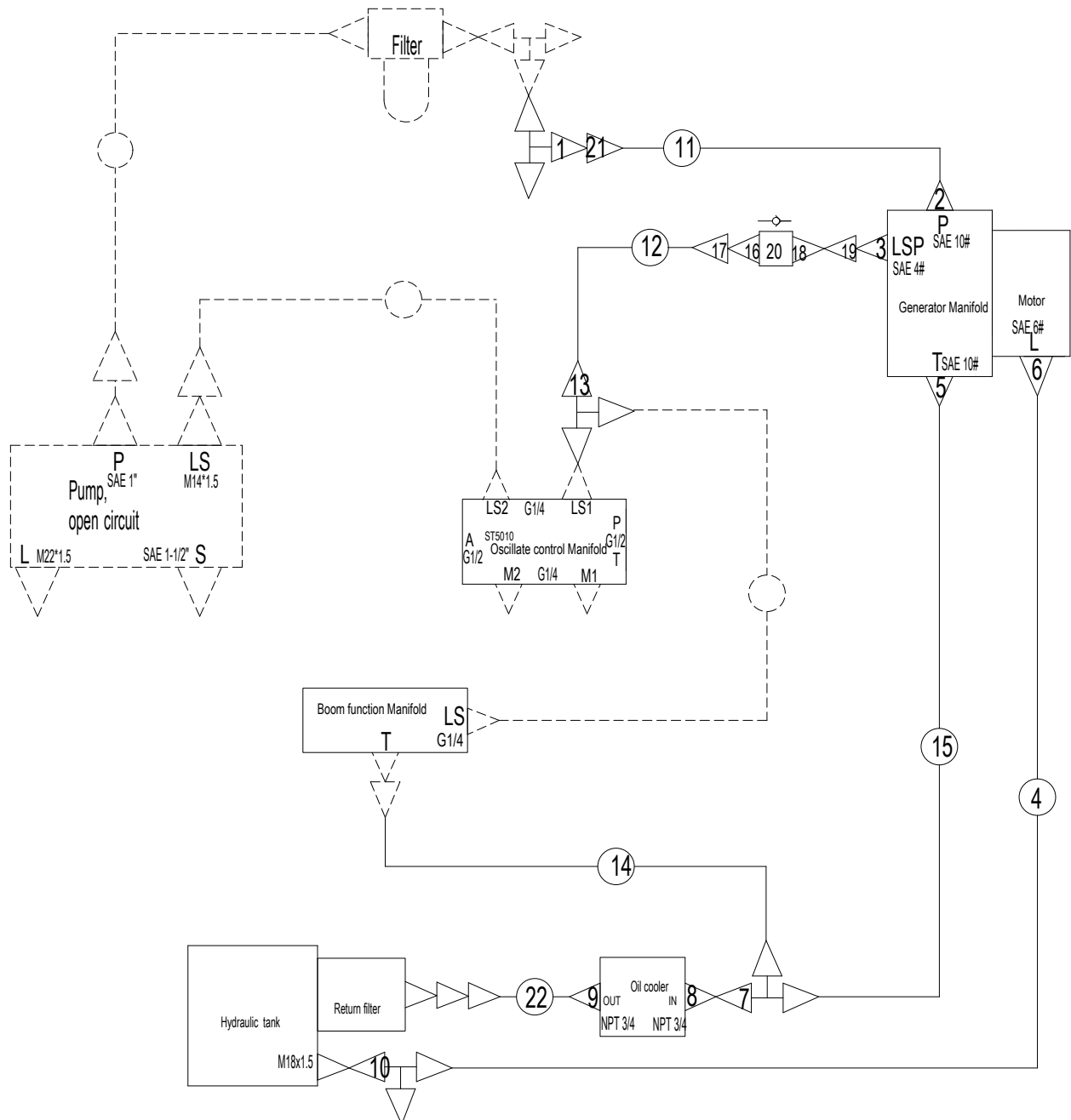
No.	Part No.	Qty.	Description
36	213050000430	2	Hose
37	213050000610	1	Hose
38	213050000595	4	Hose
39	213050000613	2	Hose
40	213050000260	4	Hose
41	213050000196	2	Hose
42	213050000068	1	Hose
43	213050008056	1	Hose
44	213050000091	1	Hose
45	213050003364	1	Hose
46	213050000945	1	Hose
47	213010000241	1	Fitting
48	213010000158	2	Fitting
49	213010000018	2	Fitting
50	213010000056	2	Fitting
51	213050008057	1	Hose
52	213010000005	1	Fitting

6.32 BOOM TUBES LAYOUT

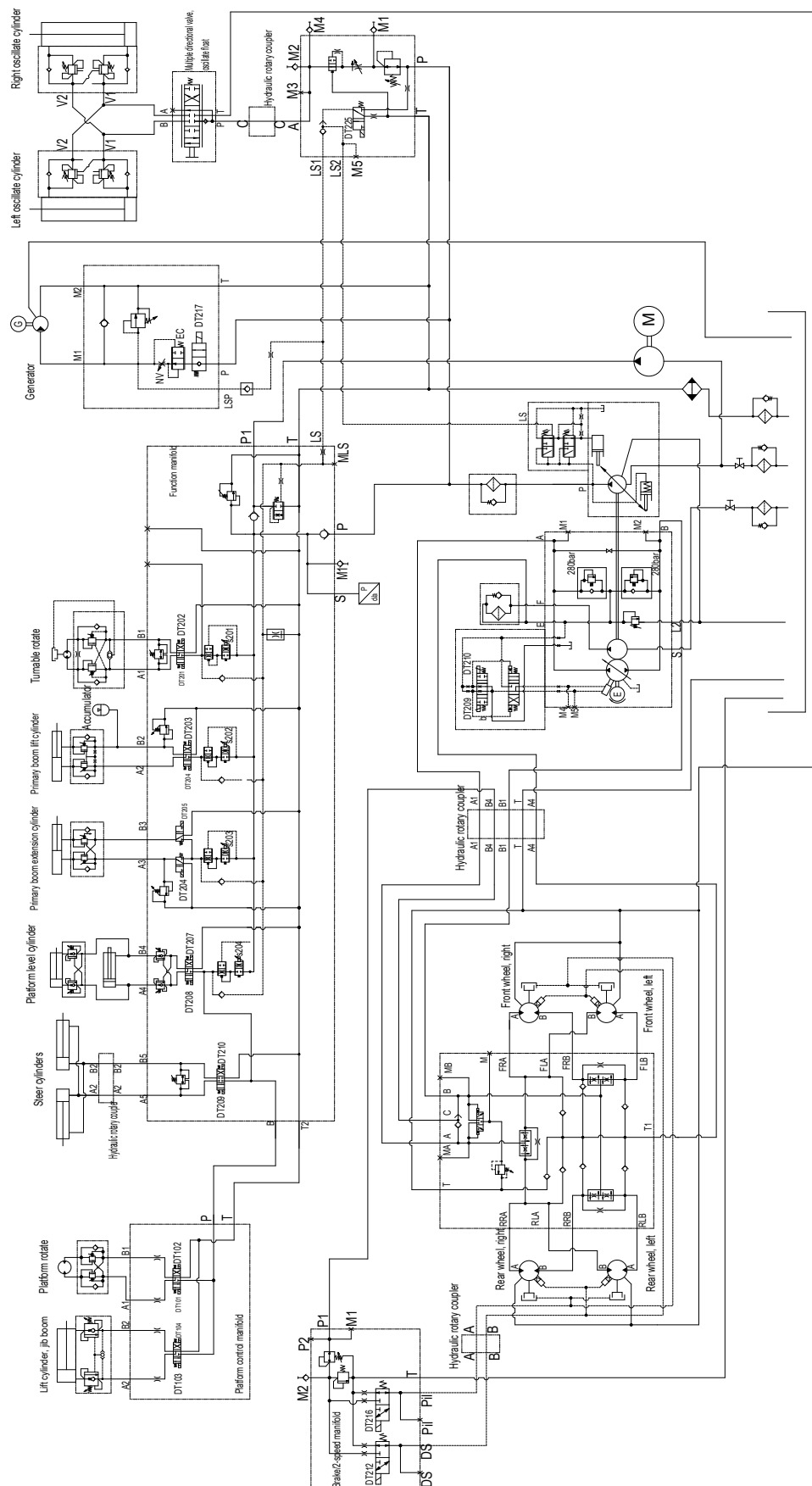


No.	Part No.	Qty.	Description
	105050053033	1	Boom piping layout
1	213010000012	6	Fitting
2	213010000139	6	Fitting
3	213010000079	2	Fitting
4	213010000093	6	Fitting
5	213010000157	4	Fitting
6	213010003029	2	Fitting
7	105030050010	2	Fitting
8	213010000007	4	Fitting
9	213010000024	8	Fitting
10	213010000013	2	Fitting
11	213010000047	2	Fitting
12	213050008344	2	Hose
13	213050008494	2	Hose
14	213050003373	1	Hose
15	213050003832	1	Hose
16	213050000962	2	Hose
17	213050008464	4	Hose
18	213050008639	1	Hose
19	213050008636	2	Hose
20	213050003360	1	Hose
21	213050000405	1	Hose
22	213050008353	1	Hose
23	213050003096	1	Hose
24	213050008637	2	Hose
25	213050008638	1	Hose

6.33 GENERATOR TUBES LAYOUT



No.	Part No.	Qty.	Description
	105050053013	1	Generator piping layout
1	213010000043	1	Fitting
2	213010000100	1	Fitting
3	213010000013	1	Fitting
4	213050000543	1	Hose
5	213010003114	1	Fitting
6	213010000004	1	Fitting
7	213010000033	1	Fitting
8	213010003176	1	Cooler connector
9	213010000143	1	Fitting
10	213010000032	1	Fitting
11	213050003785	1	Hose
12	213050000464	1	Hose
13	213010000026	1	Fitting
14	213050003784	1	Hose
15	213050000496	1	Hose
16	213010003014	1	Damper joint
17	202130003003	1	Damper
18	213010000007	1	Fitting
19	213010000142	1	Fitting
20	202040003468	1	Check valve
21	213010000041	1	Fitting
22	213050003551	1	Hose

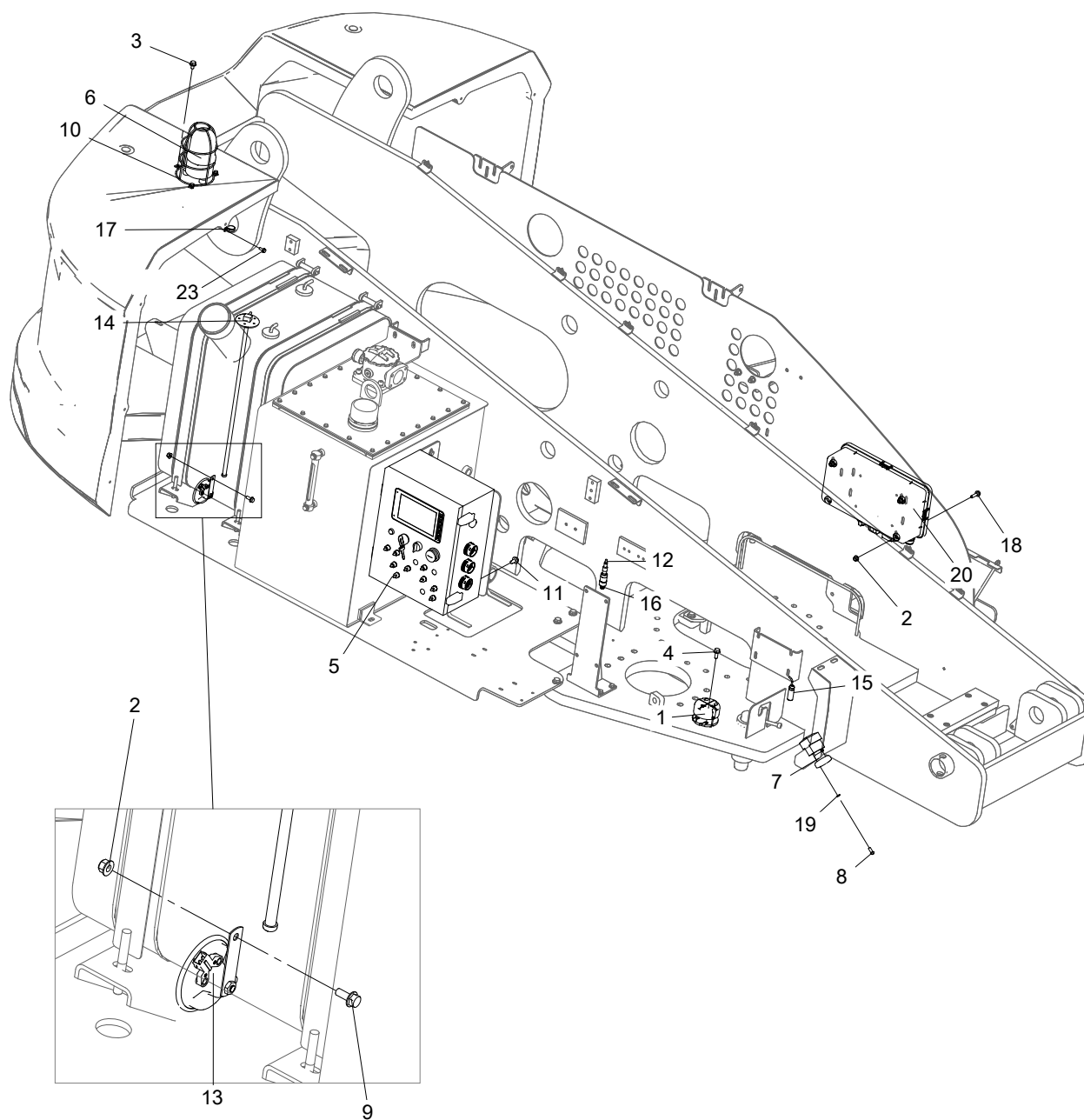


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7 ELECTRICAL SYSTEM

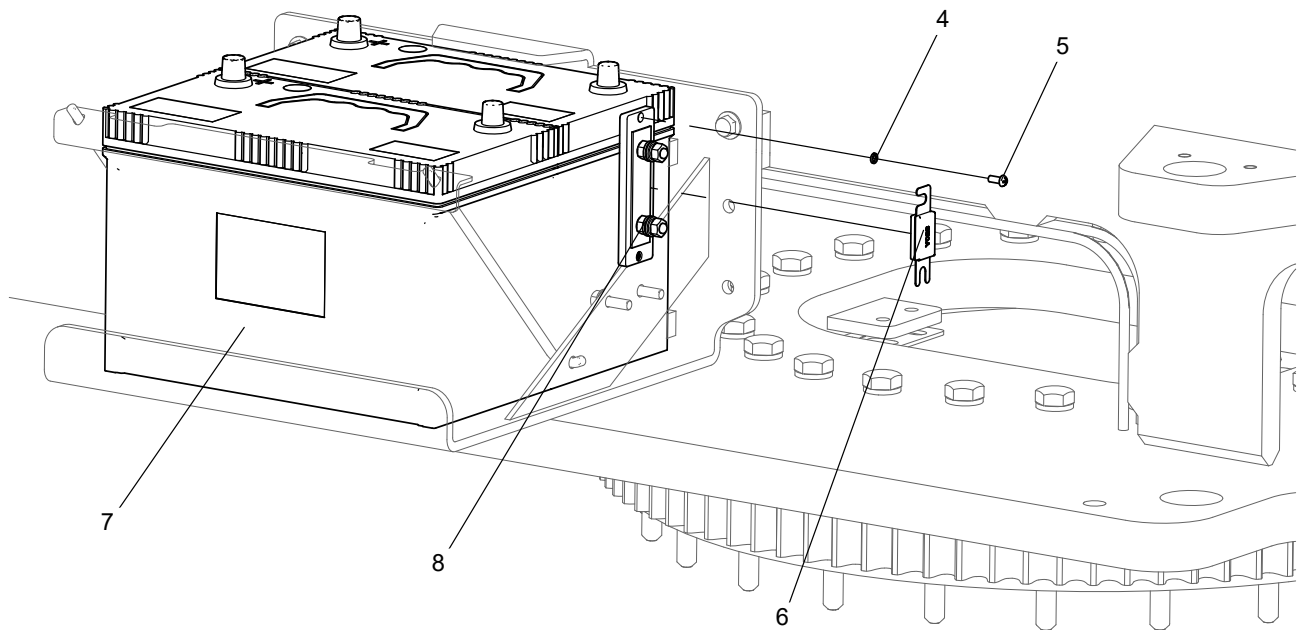
7.1 ELECTRICAL SYSTEM(CUMMIS QSF2.8T3NA60/AUSTRALIA)

7.1.1 TURNTABLE ELECTRICAL COMPONENTS INSTALLATION



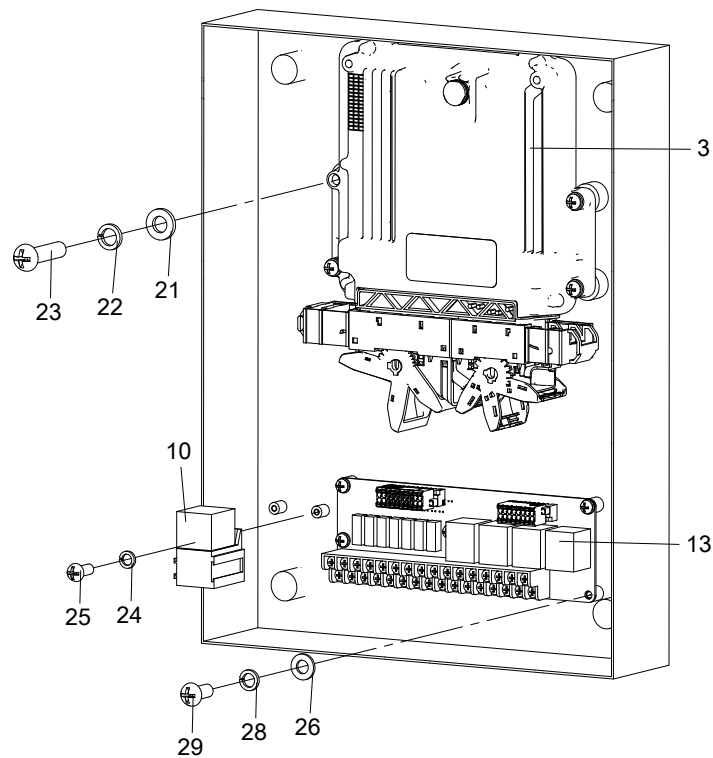
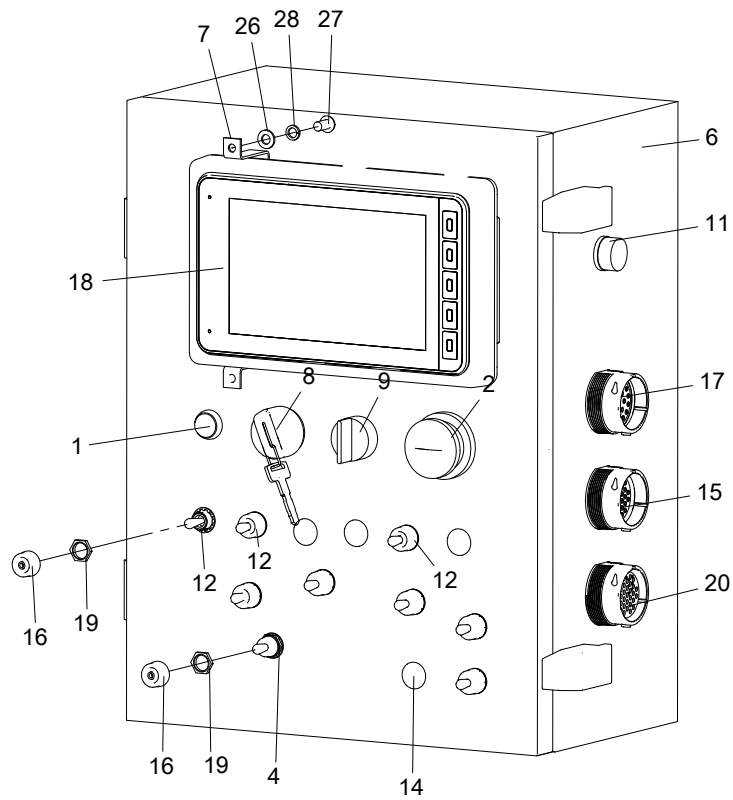
No.	Part No.	Qty.	Description
1	203060000111	1	Level sensor
2	215030000108	4	Nut M8-8-ZnD GB/T 6183
3	215010000229	3	Bolt M6×10-8.8-ZnD GB/T 5789
4	215010000230	3	Bolt M6×16-8.8-ZnD GB/T 5789
5	105031060032	1	Ground controller assembly
6	203050003017	1	Beacon light
7	203060000024	1	Power-off switch
8	215020000110	2	Screw M5×12-A2-70 GB/T 818
9	215010000234	1	Bolt M8×20-8.8-ZnD GB/T 5789
10	105021060024	1	Guard, beacon light
11	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789
12	203080003094	1	Plug, with cable
13	203050000034	1	Horn
14	203150000006	1	Sensor, liquid level
15	203150003010	1	Proximity switch
16	203150000055	1	Pressure sensor
17	216020000024	1	Retaining ring, SSG
18	215010000236	3	Bolt M8×30-8.8-ZnD GB/T 5789
19	215040000003	2	Washer 5-A2-70 GB/T 93
20	203100003011	1	Power switch box
21	105049063002	1	Turntable harness(Not shown)
22	114002063009	1	Turntable Sensors Harness(Not shown)
23	215010000279	1	Bolt M5×12-8.8-ZnD GB/T 5789

7.1.2 BATTERIES INSTALLATION



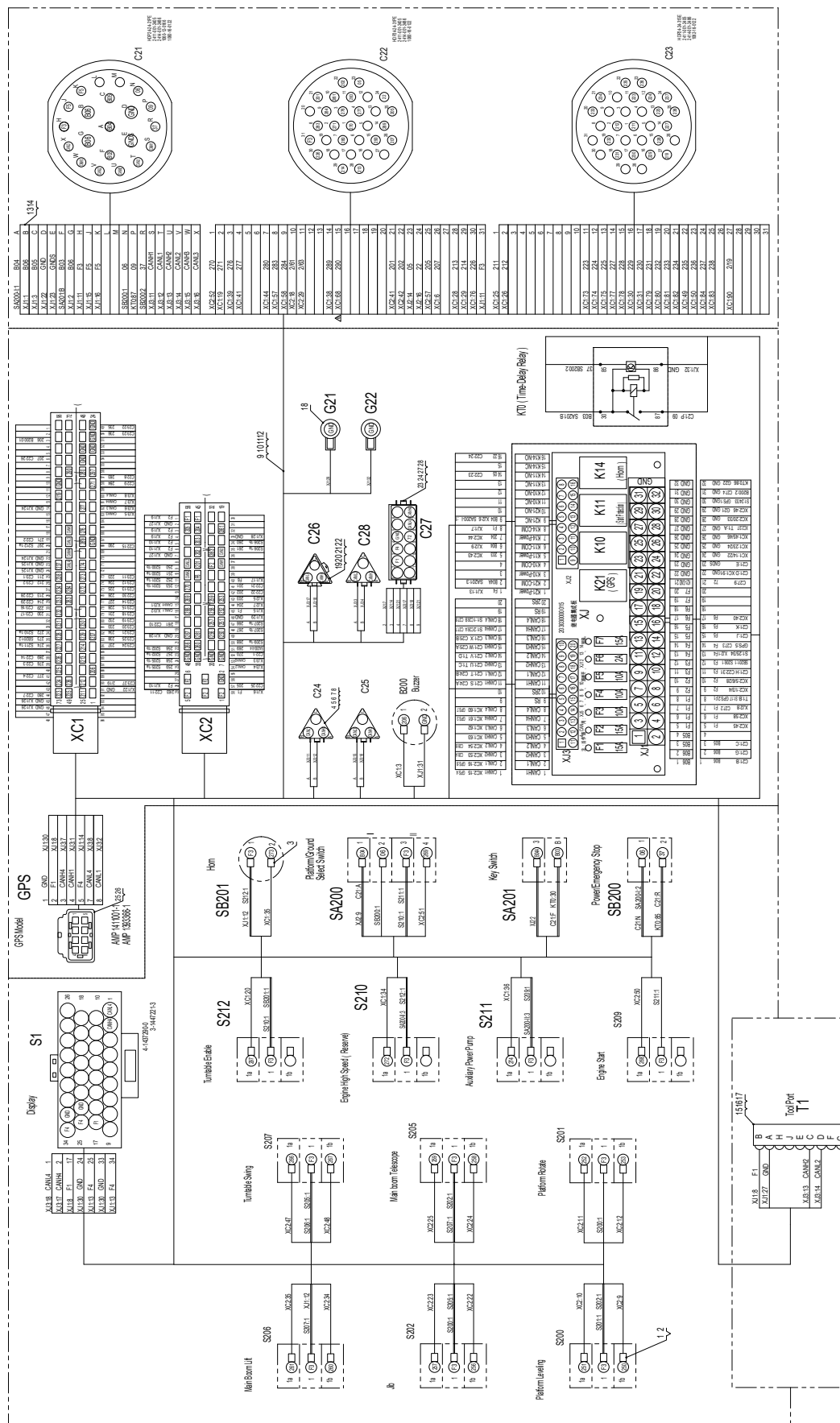
No.	Part No.	Qty.	Description
1	203100000053	2	Jacket, flexible(Not Shown)
2	203080000250	2	Battery terminal (Not Shown)
3	203100000051	2	Jacket, flexible(Not Shown)
4	215040000003	2	Washer 5-A2-70 GB/T 93
5	215020000110	2	Screw M5×12-A2-70 GB/T 818
6	203070003009	1	Fuse
7	203100000061	2	Battery, maintenance-free
8	203070000056	1	Fuse holder
9	105064063086	1	Electrical power wiring layout(Not Shown)

7.1.3 GROUND CONTROL BOX ASSEMBLY(PN.105031060032)



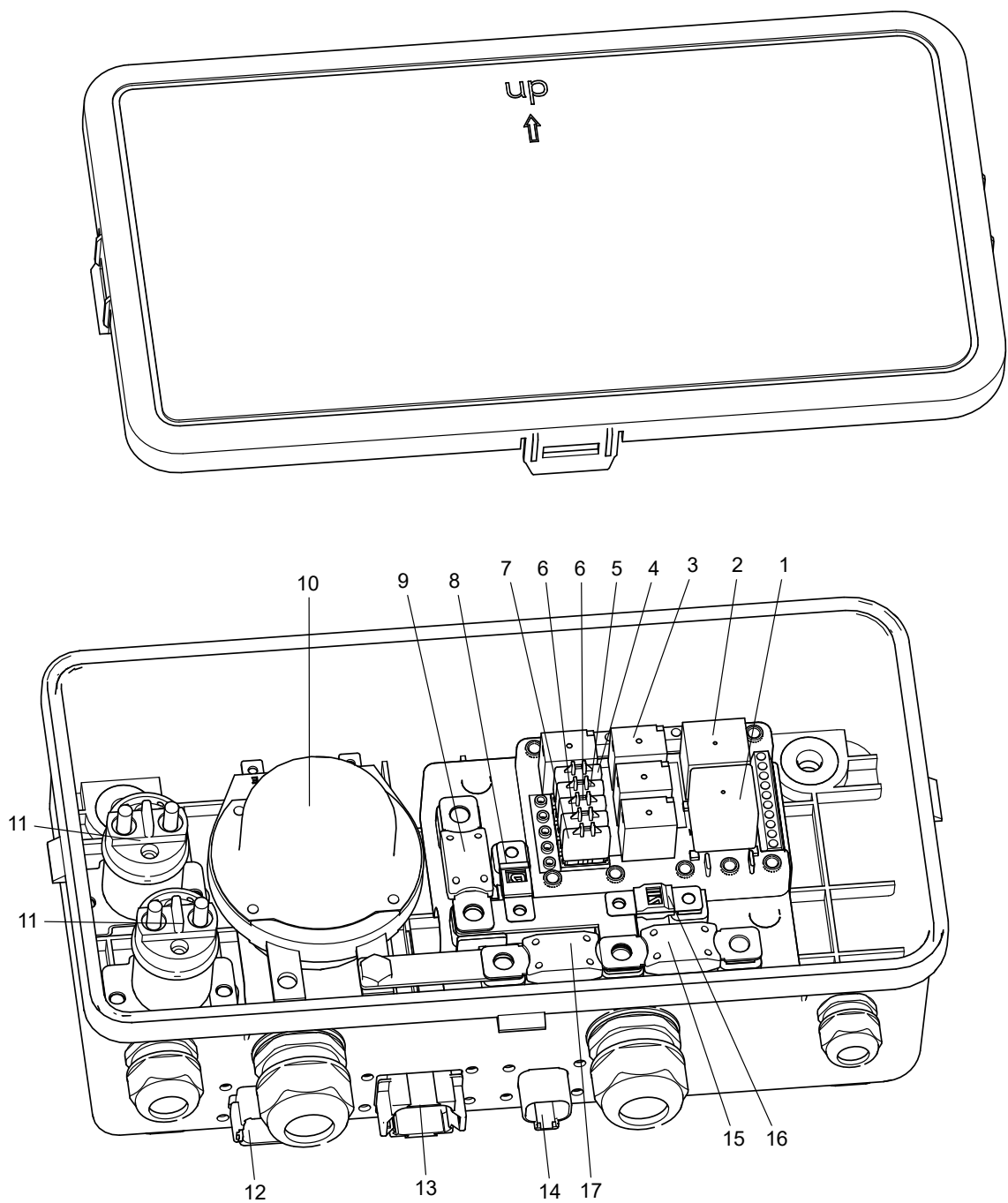
No.	Part No.	Qty.	Description
1	203060000020	1	Button, yellow
2	203060000142	1	Emergency stop switch
3	203020000038	1	Controller
4	203060000003	6	Switch, toggle
5	105070063003	1	Membrane, ground controller(Not shown)
6	113001063012	1	Ground controller
7	105001060106	3	Retaining plate, display screen
8	203060000114	1	Key switch
9	203060000029	1	Select switch
10	203040003005	1	Delay relay
11	203050003021	1	Buzzer
12	203060000021	3	Switch, toggle
13	203030000015	1	Integrated board, relay
14	105045060004	4	Plug, controller
15	203080000523	1	Connector, 31P, male
16	203080000101	9	Cap, waterproof
17	203080000518	1	Connector, 21-pin, male
18	203200000004	1	Display screen
19	203080000109	9	Nut
20	203080000516	1	Connector, 31P, female
21	215040000033	4	Washer 6-A2 GB/T 97.1
22	215040000004	4	Washer 6-A2-70 GB/T 93
23	215020000118	4	Screw M6×25-A2-70 GB/T 818
24	215040000002	1	Washer 4-A2-70 GB/T 93
25	215020000104	1	Screw M4×10-A2-70 GB/T 818
26	215040000032	11	Washer 5-A2 GB/T 97.1
27	215020000109	6	Screw M5×10-A2-70 GB/T 818
28	215040000003	11	Washer 5-A2-70 GB/T 93
29	215020000110	5	Screw M5×12-A2-70 GB/T 818
30	105025063005	1	PC film, ground controller(Not shown)

7.1.4 GROUND CONTROL BOX HARNESS(PN.105031060026)



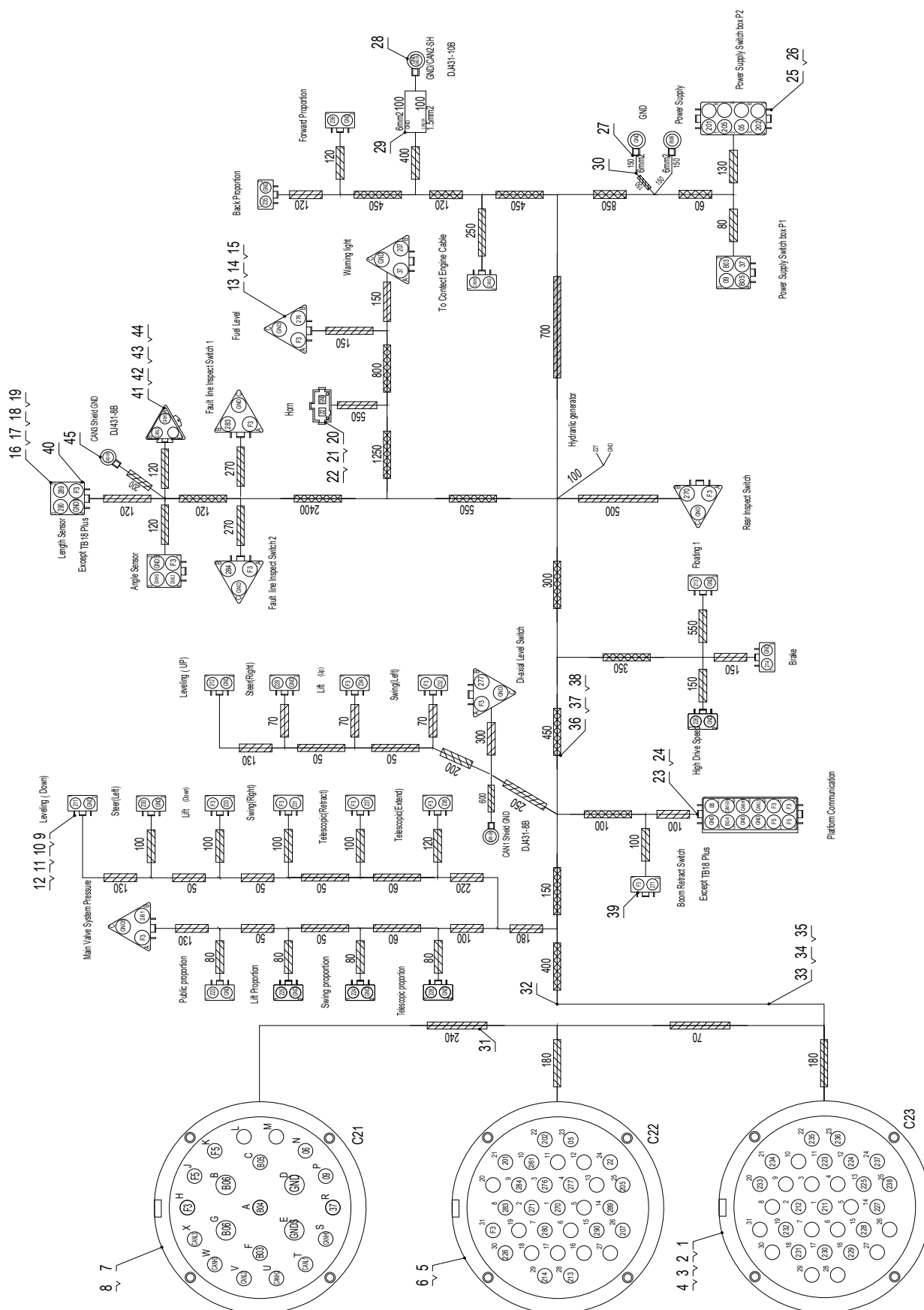
No.	Part No.	Qty.	Description
	105031060026	1	Ground controller wiring diagram
1	203080000036	36	Terminal
2	203080000022	1	Heat shrink tube
3	203080000023	4	Terminal, blade-hole type
4	203080000041	10	Terminal, female
5	203080000068	4	Blind plug
6	203080000032	3	Lock
7	203080000404	3	Sheath
8	203080000473	3	Cover, waterproof
9	203080000564	15	Cable, thin wall (white)
10	203080000562	5	Cable, thin wall (red)
11	203080000563	7	Cable, thin wall (black)
12	216020000020	30	Cable tie, nylon
13	203080000047	1	Cable
14	203080000196	1	Cable
15	203080000334	1	Socket, 9-pin diagnostic nipple
16	203080000326	1	Lock
17	203080000327	4	Pin
18	203080000133	2	Terminal, blade-hole type
19	203080000405	1	Sheath
20	203080000046	1	Lock
21	203080000033	2	Terminal, male
22	203080000086	1	Sheath
23	203080003532	1	Sheathed
24	203080003533	1	Lock
25	203080003216	1	Sheath
26	203080003218	7	Terminal AMP
27	203060000085	6	Terminal, female
28	203080000085	6	Blind plug

7.1.5 POWER SWITCH BOX (PN.203100003011)



No.	Part No.	Qty.	Description
1	203040003012	1	Relay
2	203040003011	1	Relay
3	203040003010	4	Relay
4	203070003017	1	Fuse
5	203070003018	1	Fuse
6	203070003016	2	Fuse
7	203070003015	1	Fuse
8	203070003022	2	Fuse
9	203070003019	1	Fuse
10	203040003014	1	Relay
11	203040003013	2	Relay
12	203060000090	1	Connector, 12p, with flange
13	203060000088	1	Connector, 8p, with flange
14	203060003045	1	Connector, 4p,with flange
15	203070003021	1	Fuse
16	203070003020	1	Fuse
17	203990003008	1	Fitting, waterproof
18	203990003009	2	Fitting, waterproof
19	203990003010	1	Connector, waterproof
20	203990003011	1	Cover plate
21	203990003012	1	Pedestal assembly

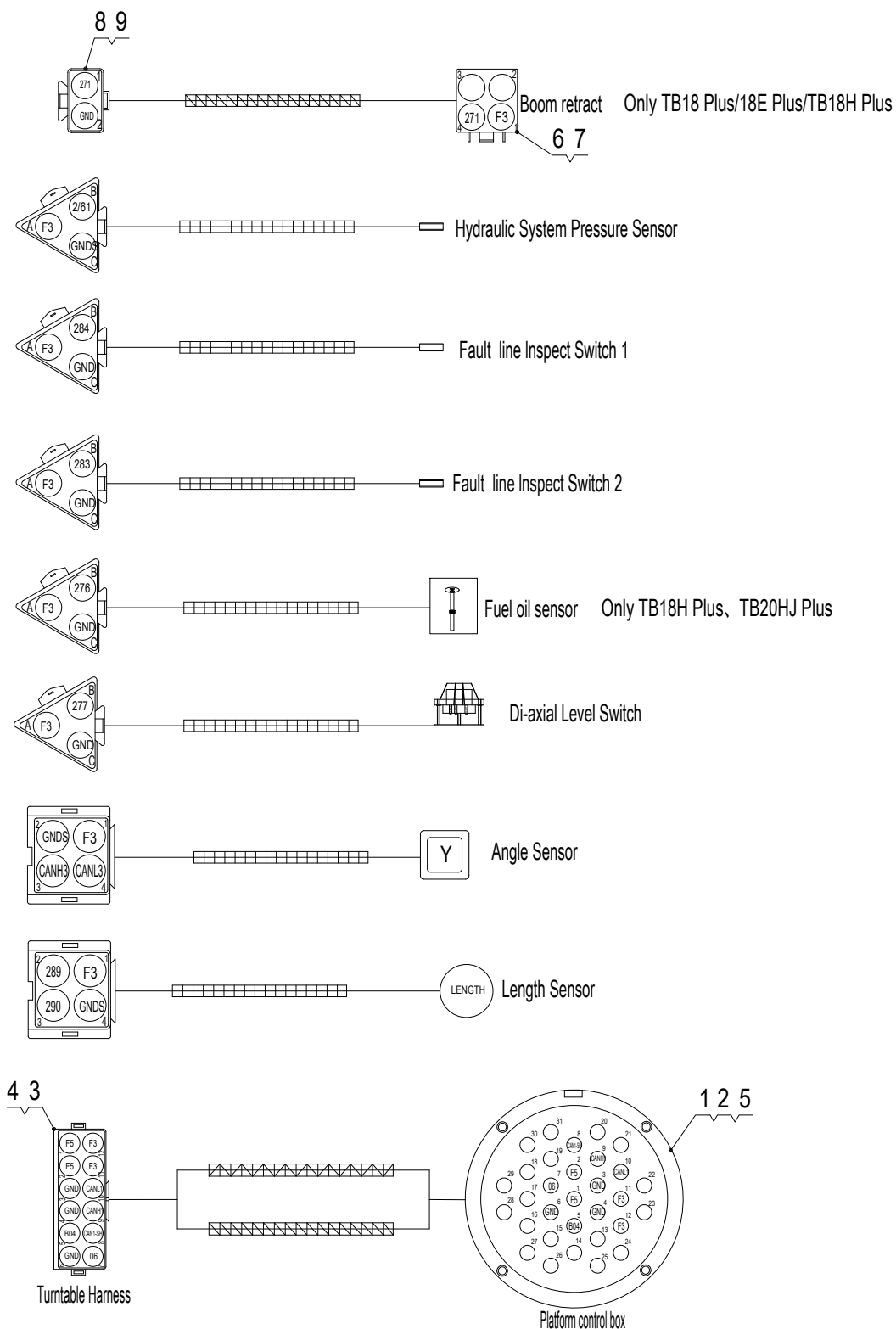
7.1.6 TURNTABLE HARNESS(PN.105049063002)



No.	Part No.	Qty.	Description
	105049063002	1	Turntable harness
1	203080000515	1	Connector, 31P, male
2	203060000096	3	End clip, 180 deg.
3	203080000033	21	Terminal, male
4	203080000068	29	Blind plug
5	203080000520	1	Connector, 31P, female
6	203080000041	145	Terminal, female
7	203080000517	1	Connector, 21-pin, female
8	203060000097	4	Terminal, #12, female
9	203080000410	21	Sheath
10	203080000016	21	Lock
11	203080000437	21	End attachments, 2-pin, female
12	203080000448	21	Rubber, 2-pin
13	203080000404	7	Sheath
14	203080000032	7	Lock
15	203080000508	7	End clip
16	203080000044	3	Sheath
17	203080000020	3	Lock
18	203080000445	3	End attachments, 4-pin, female
19	203080000446	3	Rubber, 4-pin
20	203080000427	1	Sheath
21	203080000428	2	Pin, female
22	203080000429	1	Cap, waterproof
23	203080000414	1	Sheath
24	203080000159	1	Lock
25	203080000100	1	Sheath
26	203080000112	1	Lock
27	203080000134	2	Terminal, blade-hole type
28	203080000124	3	Terminal, blade-hole type
29	203080000191	4	Cable
30	203080000161	3	Cable
31	203080000417	1	Nylon hose, closed-end
32	203080000419	1	Nylon hose, closed-end
33	203080000564	150	Cable, thin wall (white)
34	203080000563	60	Cable, thin wall (black)
35	203080000562	30	Cable, thin wall (red)
36	203080000424	7	Nylon hose, closed-end

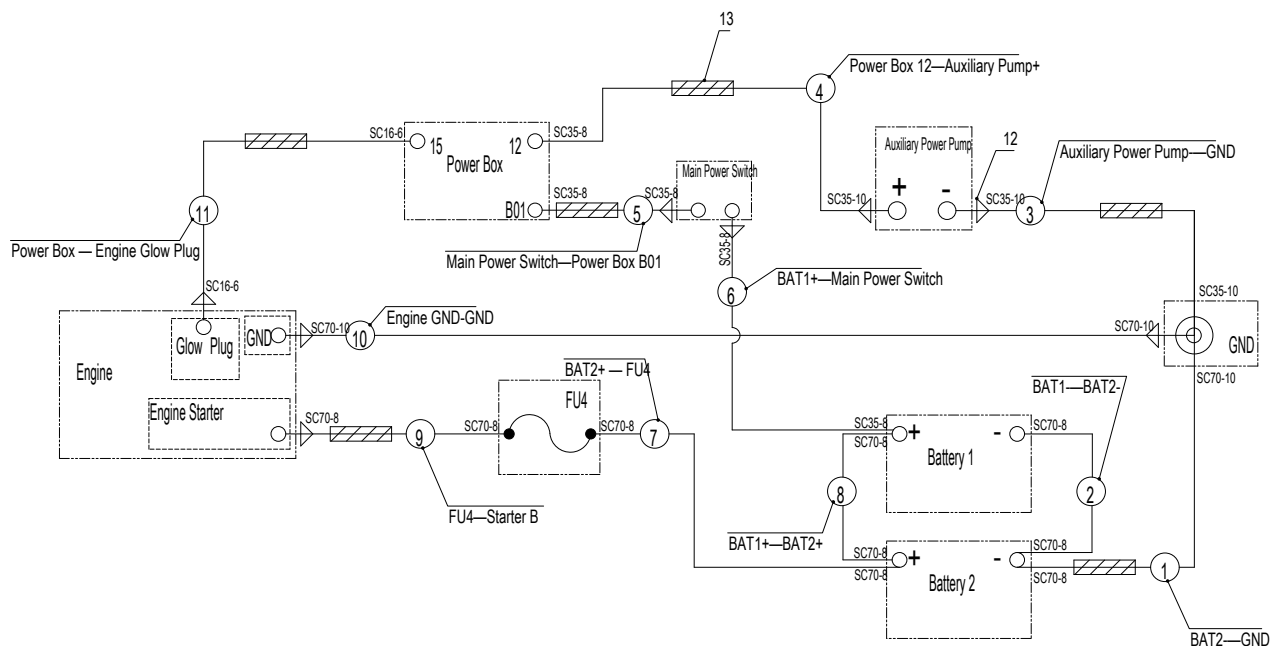
No.	Part No.	Qty.	Description
37	203080000422	5	Nylon hose, closed-end
38	203080000037	2	Corrugated pipe
39	203080000474	2	Cover, waterproof
40	203080000492	1	Cover, waterproof
41	203080000405	1	Sheath
42	203080000046	1	Lock
43	203080000455	1	End attachments, 3-pin, male
44	203080000086	1	Sheath
45	203080000018	2	Terminal, blade-hole type

7.1.7 TURNTABLE SENSORS HARNESS(PN.114002063009)



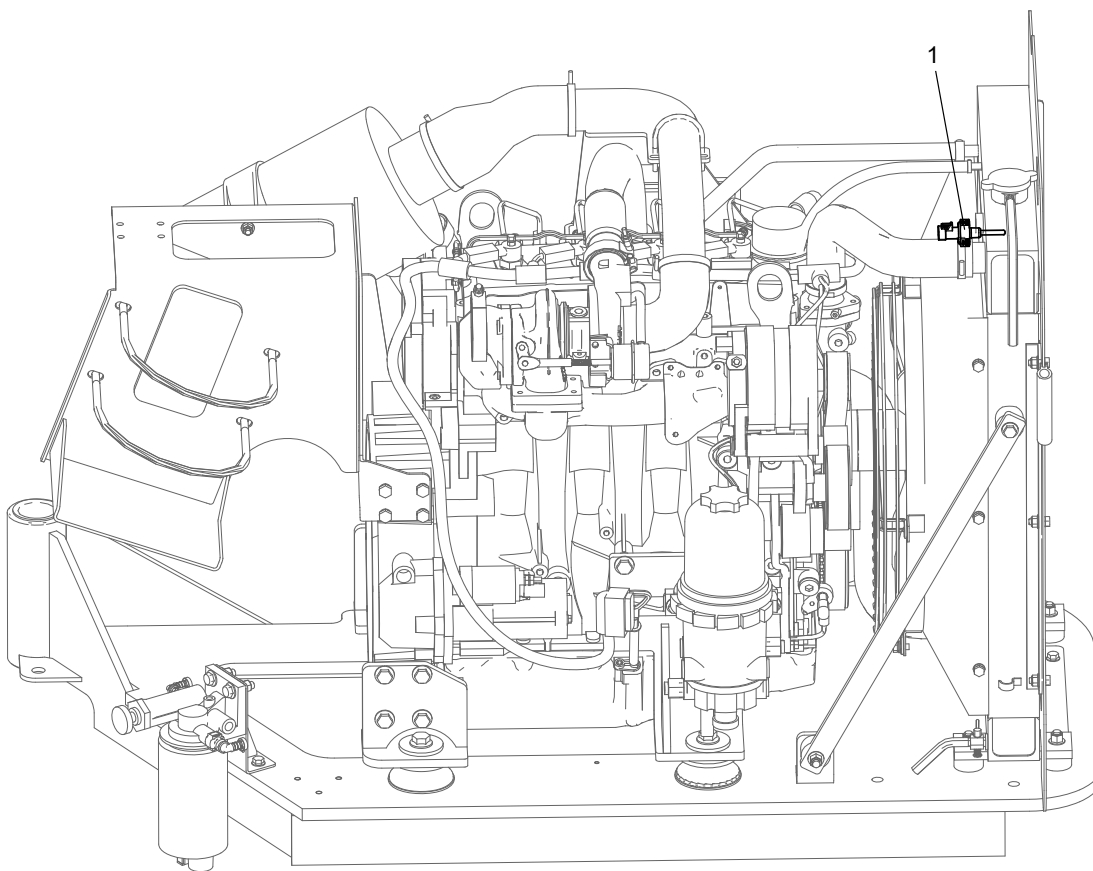
No.	Part No.	Qty.	Description
	114002063009	1	Turntable Sensors Harness
1	203080000157	1	Lock
2	203060000096	1	End clip, 180 deg.
3	203080000020	1	Lock
4	203080000021	1	Lock
5	203080000403	1	Sheath
6	203080000408	1	Sheath
7	203080000044	1	Sheath
8	203080000520	1	Connector, 31P, female
9	203080000068	21	Blind plug

7.1.8 POWER CABLE KIT(PN.105064063086)



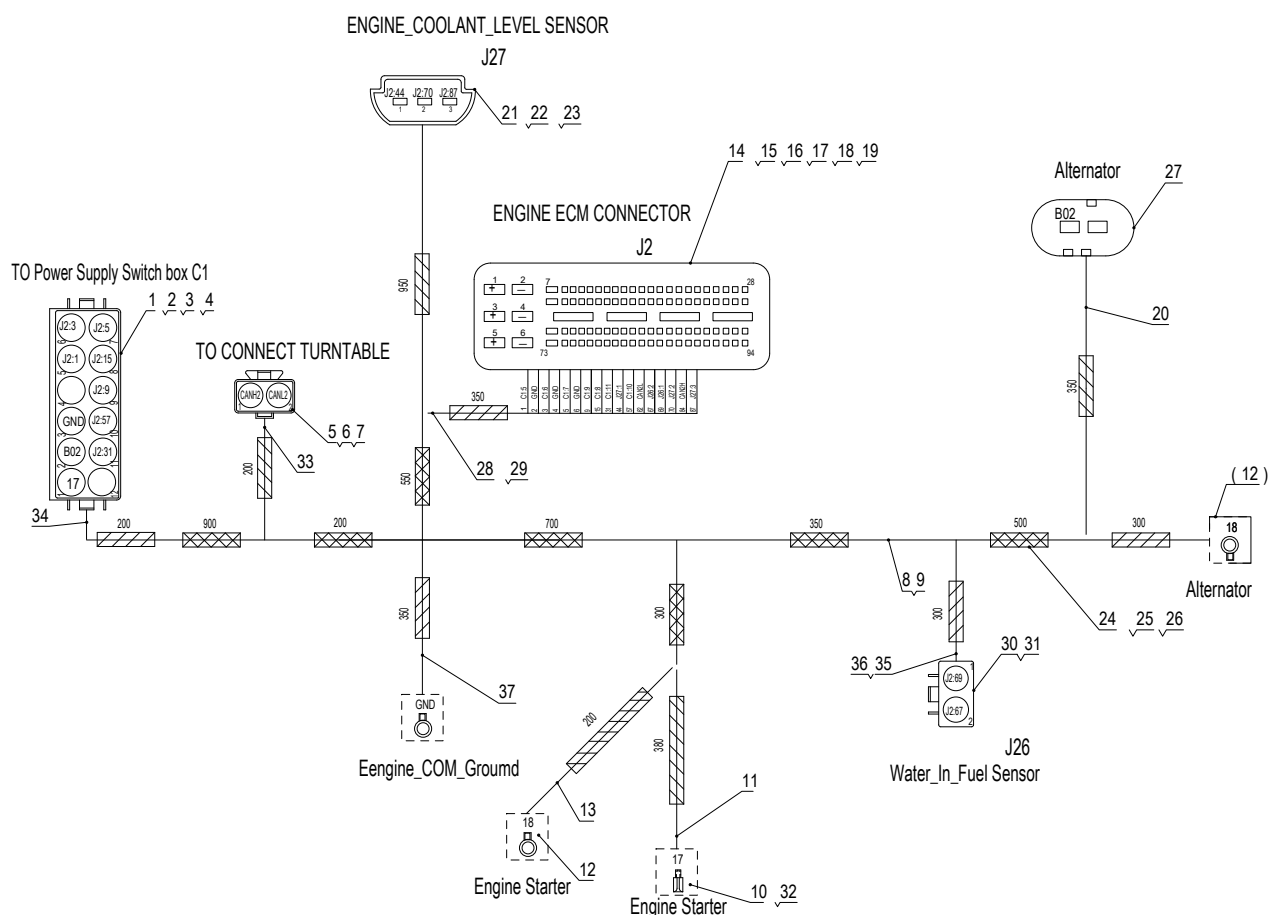
No.	Part No.	Qty.	Description
	105064063086	1	Electrical power wiring layout
1	203230000103	1	Power harness
2	203230000364	1	Power harness
3	203230000504	1	Power harness
4	203230000527	1	Power harness
5	203230000568	1	Power cable kit
6	203230000564	1	Power cable kit
7	203230000363	1	Power harness
8	203230000404	1	Power harness
9	203230000529	1	Power harness
10	203230000523	1	Power harness
11	203230000875	1	Power cable kit
12	203080000004	8	Connector, PVC
13	203080000422	16	Nylon hose, closed-end

7.1.9 ENGINE ELECTRICAL COMPONENTS INSTALLATION(CUMMIS)



No.	Part No.	Qty.	Description
1	203150003026	1	Liquid level sensor
2	105031060010	1	Wiring harness, Cummins engine, electrically-operated(Not Shown)

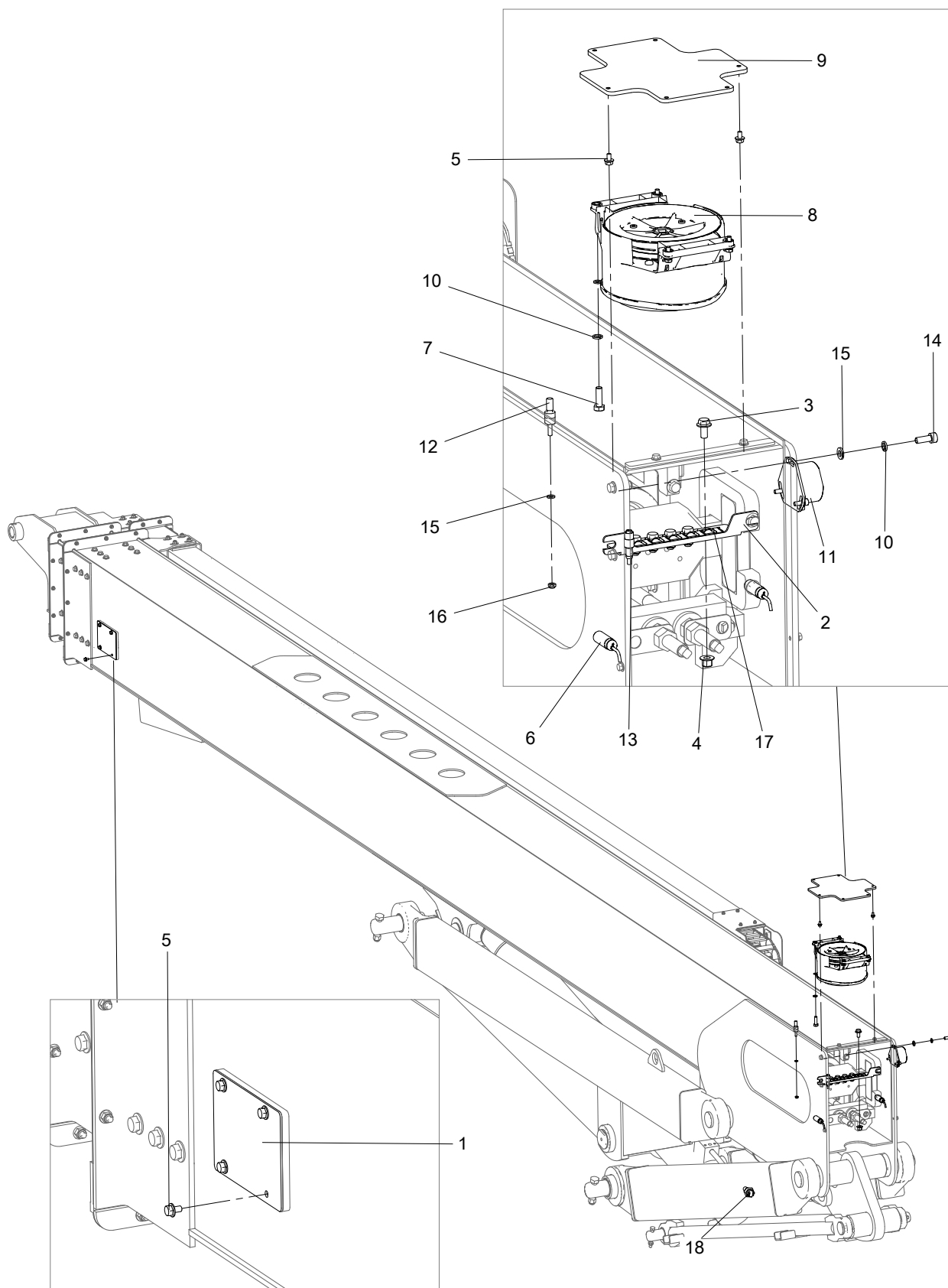
7.1.10 ENGINE HARNESS(PN.105031060010)



No.	Part No.	Qty.	Description
	105031060010	1	Wiring harness, Cummins engine, electrically-operated
1	203080000414	1	Sheath
2	203080000159	1	Lock
3	203080000041	12	Terminal, female
4	203080000068	2	Blind plug
5	203080000408	1	Sheath
6	203080000021	1	Lock
7	203080000033	2	Terminal, male
8	203080000375	26	Cable
9	203080000370	4	Cable
10	203080000025	1	Terminal
11	203080000372	3	Cable
12	203080000244	2	Terminal, round top insulated
13	203080000367	2	Cable
14	203080000330	1	Terminal, 94-pin
15	203080000325	6	Pin
16	203080000333	11	Pin
17	203080000322	6	Seal ring
18	203080000324	73	Blind plug, small
19	203080000328	4	Blind plug, big
20	203080000035	1	Heat shrink tube
21	203080000331	1	Fitting
22	203080000323	3	Pin
23	203080000332	1	Seal plug
24	203080000037	2	Corrugated pipe
25	203080000006	4	Corrugated pipe
26	203080000463	2	Nylon hose, closed-end
27	203080000329	1	Plug, generator
28	203080000369	6	Cable
29	203080000582	8	Cable
30	203080000410	1	Sheath
31	203080000016	1	Lock
32	203080000129	1	Jacket, flexible
33	203080000465	1	End clip
34	203080000461	1	End clip
35	203080000437	1	End attachments, 2-pin, female

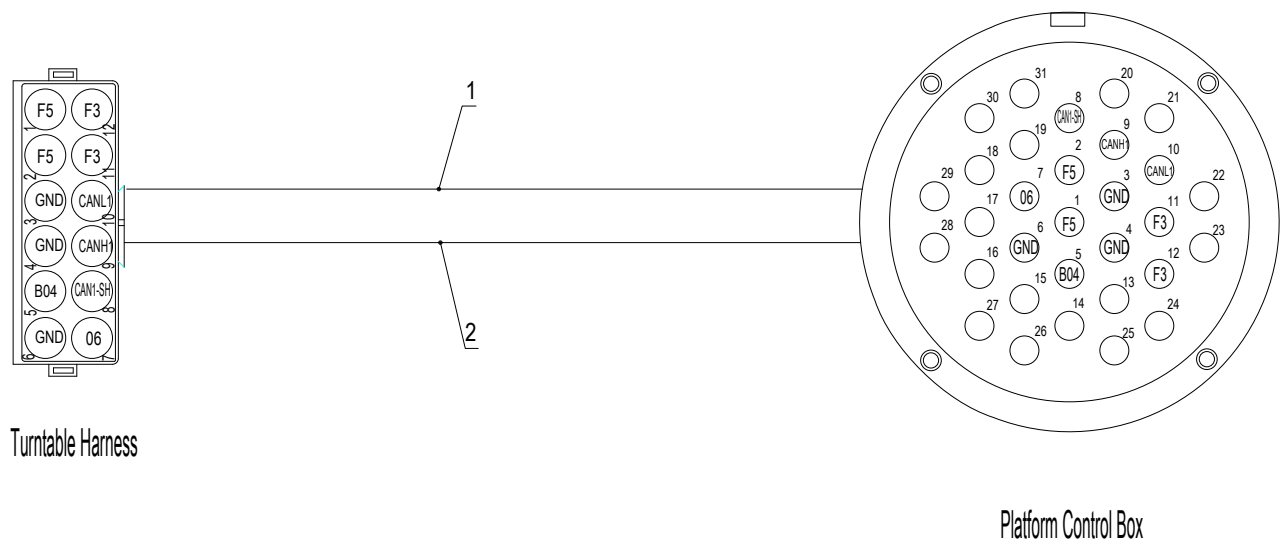
No.	Part No.	Qty.	Description
36	203080000448	1	Rubber, 2-pin
37	203080000191	1	Cable

7.1.11 BOOM ELECTRICAL COMPONENTS INSTALLATION



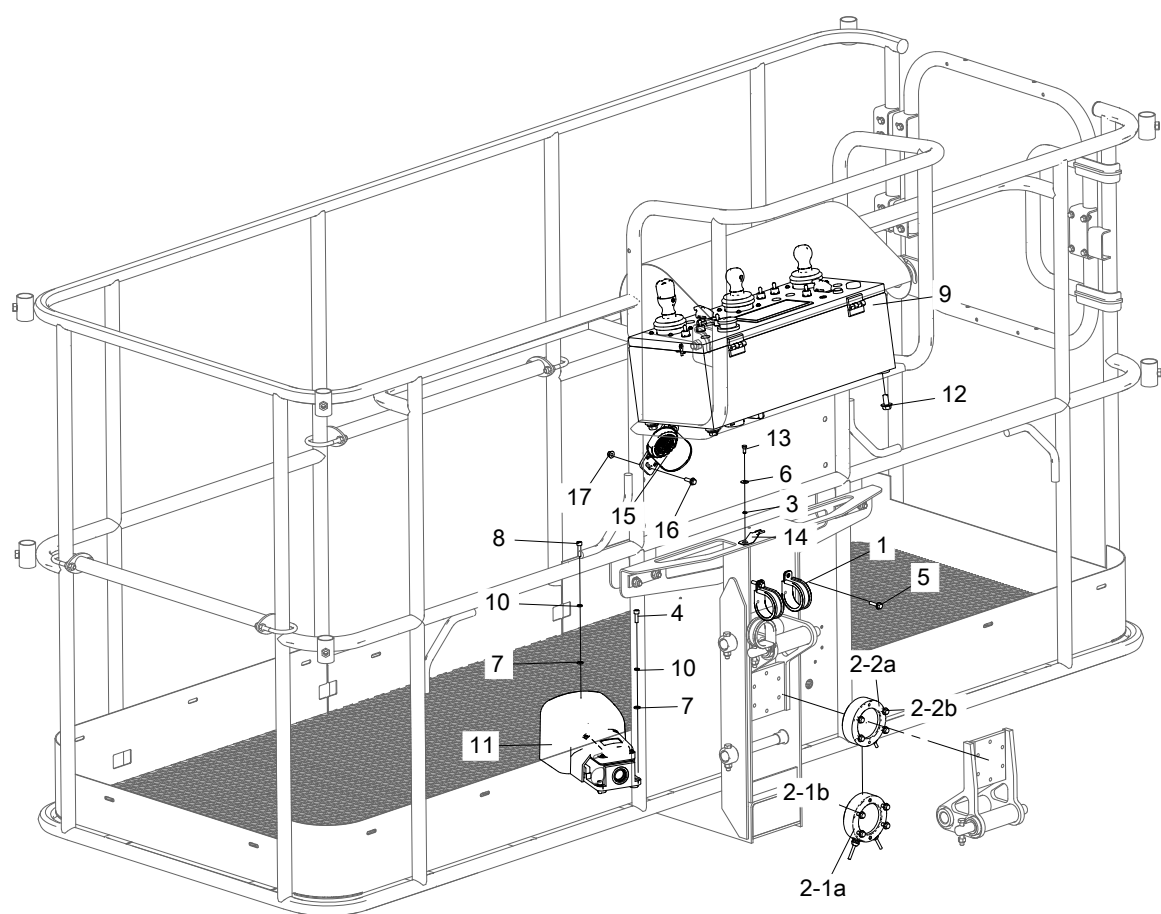
No.	Part No.	Qty.	Description
1	105050013000	1	Cover
2	105049013002	1	Bracket
3	215010000237	5	Bolt M10×20-8.8-ZnD GB/T 5789
4	215030000109	5	Nut M10-8-ZnD GB/T 6183
5	215010000229	6	Bolt M6×10-8.8-ZnD GB/T 5789
6	203150003010	2	Proximity switch
7	215010000051	4	Bolt M6×20-A2-70 GB/T 5783
8	203150000051	1	Length sensor
9	105001010254	1	Mount, length sensor
10	215040000004	7	Washer 6-A2-70 GB/T 93
11	105050063060		Angle Sensor
11-1	203150000058	1	Sensor, CAN bus(1000052)
11-2	203150003062	1	Dual angle bus sensor(1000604)
12	105001060075	1	Thread rod, for length sensor
13	203080003104	1	Plug, with cable
14	215020000011	3	Screw M6×16-A2-70 GB/T 70.1
15	215040000033	8	Washer 6-A2 GB/T 97.1
16	215030000025	1	Nut M6-8-A2-70 GB/T 889.1
17	203080000525	5	Fixture
18	203150000038	1	Temp sensor
19	203230000929	1	Towline Cable(Not shown)
20	203230000966	1	Towline Cable(Not shown)

7.1.12 CABLE TRACK DIAGRAM(PN.114002063018)



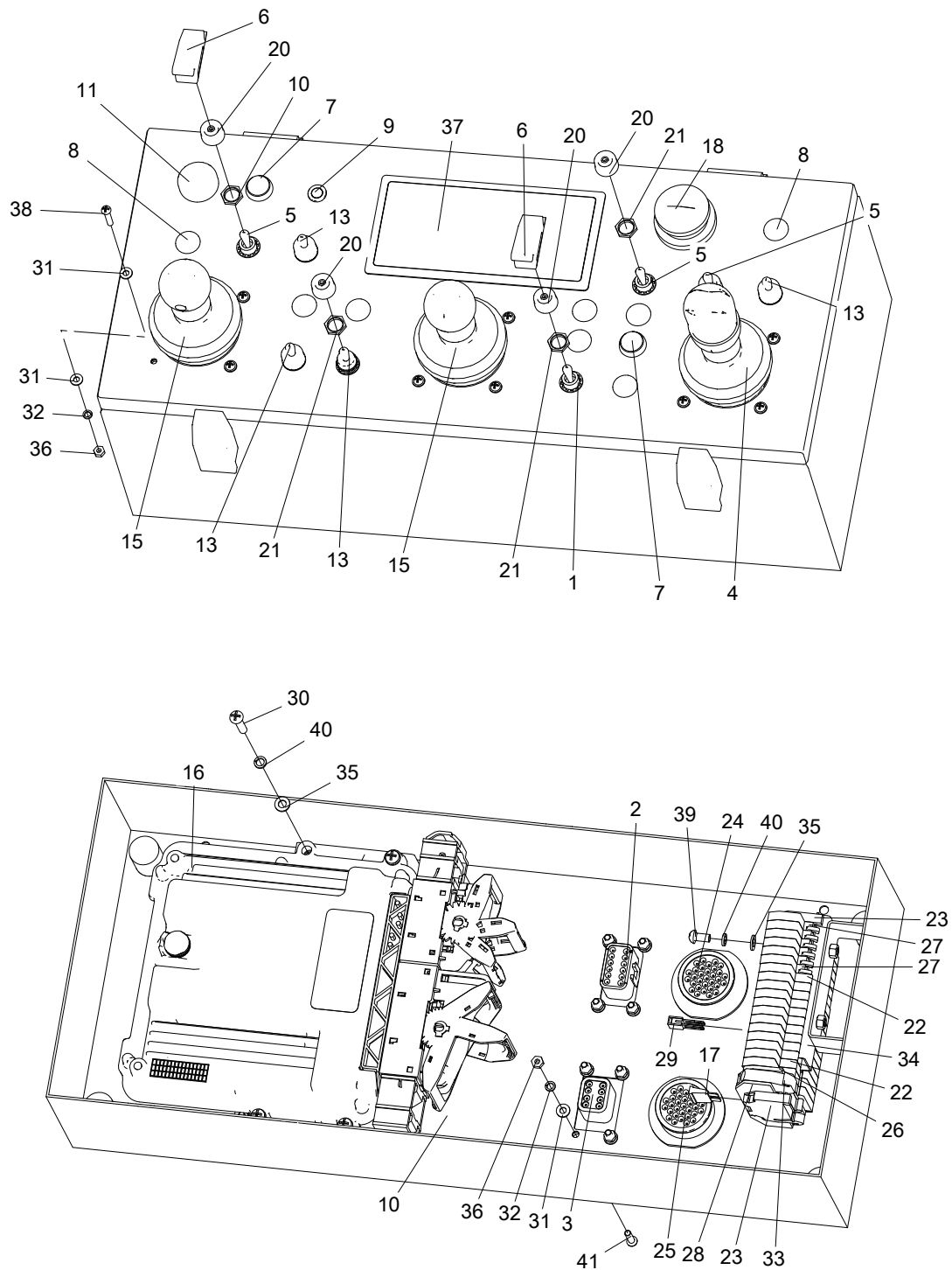
No.	Part No.	Qty.	Description
	114002063018	1	Cable track diagram
1	203080003310	1	Cable, cable track
2	203080003311	1	Cable, CAN bus, cable track

7.1.13 PLATFORM ELECTRICAL COMPONENTS INSTALLATION



No.	Part No.	Qty.	Description
1	216020000025	2	Retaining ring, SSG
2	103006060034		Load sensor options
2-1	103006060029	1	Load sensor
2-1a	203150000070	1	Load sensor
2-1b	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
2-2	103006060026	1	Load sensor, dual-channel
2-2a	203150000069	1	Load sensor
2-2b	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
3	215040000003	1	Washer 5-A2-70 GB/T 93
4	215020000012	2	Screw M6×20-A2-70 GB/T 70.1
5	215010000232	2	Bolt M6×25-8.8-ZnD GB/T 5789
6	215040000132	1	Washer 5-200HV-A2 GT/B 96.1
7	215040000033	3	Washer 6-A2 GB/T 97.1
8	215020000013	1	Screw M6×25-A2-70 GB/T 70.1
9	105050063016	1	Platform controller assembly(See details)
10	215040000004	3	Washer 6-A2-70 GB/T 93
11	203060000009	1	Footswitch
12	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789
13	215010000041	1	Bolt M5×12-A2-70 GB/T 5783
14	203080000525	1	Fixture
15	203050003040	1	Voice Horn
16	215010000231	2	Bolt M6×20-8.8-ZnD GB/T 5789
17	215030000107	2	Nut M6-8-ZnD GB/T 6183

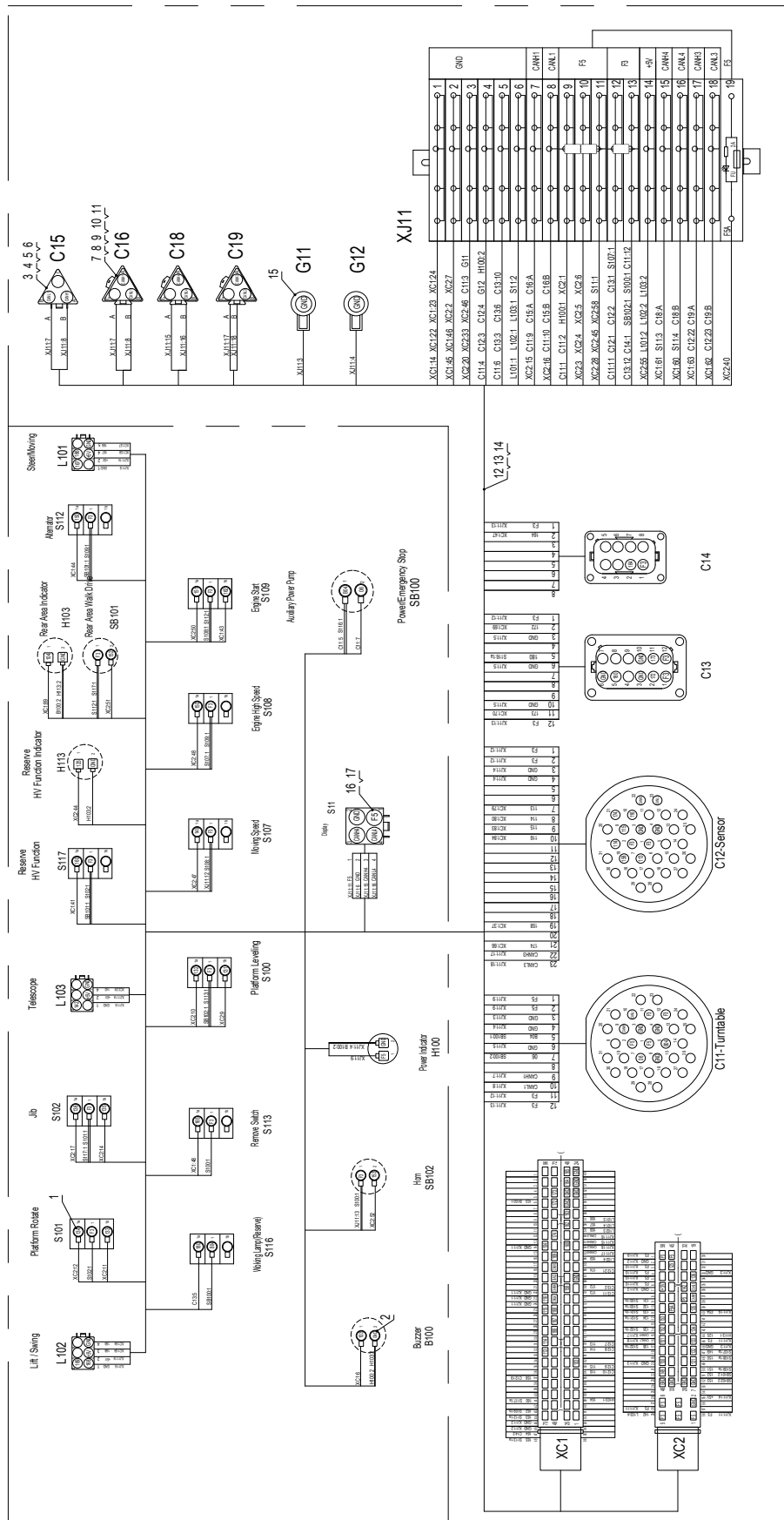
7.1.14 PLATFORM CONTROL BOX ASSEMBLY(PN.105050063068)



No.	Part No.	Qty.	Description
1	2030600000035	1	Switch, toggle
2	2030600000090	1	Connector, 12p, with flange
3	2030600000088	1	Connector, 8p, with flange
4	203060003081	1	Joystick
5	2030600000021	3	Switch, toggle
6	2030600000150	2	Guard, toggle switch
7	2030600000020	2	Button, yellow
8	105045060004	8	Plug, controller
9	203050003014	1	Indicator light
10	105050063019	1	Platform controller
11	203050003021	1	Buzzer
12	105050063021	1	PC film, platform controller
13	2030600000003	4	Switch, toggle
14	105050063020	1	Platform Control Box Assembly
15	203060003084	2	Joystick
16	2030200000038	1	Controller
17	2030700000053	1	Fuse
18	2030600000142	1	Emergency stop switch
19	105050063067	1	Platform control box wiring diagram
20	2030800000101	8	Cap, waterproof
21	2030800000109	8	Nut
22	203080003051	12	Terminal
23	203080003053	2	Terminal block end plate
24	2030800000516	1	Connector, 31P, female
25	2030800000523	1	Connector, 31P, male
26	203080003052	1	End plate
27	203080003054	6	Terminal, GND
28	203080003059	1	End plate
29	203080003058	3	Jumper
30	2150200000113	4	Screw M5×25-A2-70 GB/T 818
31	2150400000031	32	Washer 4-A2 GB/T 97.1
32	2150400000002	20	Washer 4-A2-70 GB/T 93
33	203080003057	1	Terminal
34	2039900000001	1	Guiderail
35	2150400000032	6	Washer 5-A2 GB/T 97.1
36	2150300000002	20	Nut M4-8-A2-70 GB/T 6170
37	203200003002	1	Gauge

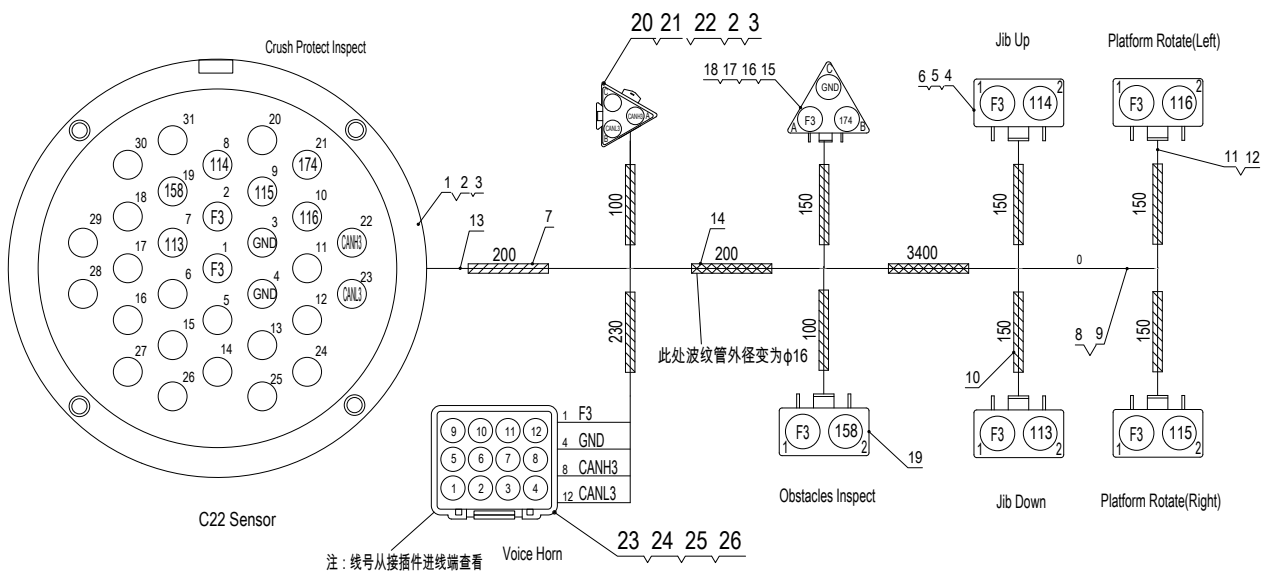
No.	Part No.	Qty.	Description
38	215020000107	12	Screw M4×20-A2-70 GB/T 818
39	215020000109	2	Screw M5×10-A2-70 GB/T 818
40	215040000003	6	Washer 5-A2-70 GB/T 93
41	215020000106	8	Screw M4×16-A2-70 GB/T 818

7.1.15 PLATFORM CONTROL BOX HARNESS(PN.105050063067)



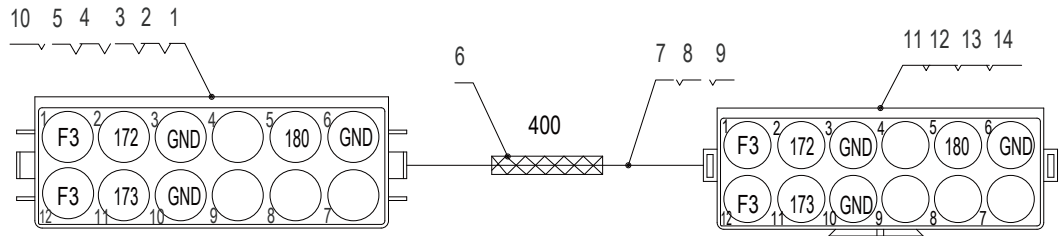
No.	Part No.	Qty.	Description
	105050063067	1	Platform control box wiring diagram
1	203080000023	27	Terminal, blade-hole type
2	203080000036	16	Terminal
3	203080000404	1	Sheath
4	203080000032	1	Lock
5	203080000041	6	Terminal, female
6	203080000473	1	Cover, waterproof
7	203080000405	3	Sheath
8	203080000046	3	Lock
9	203080000033	6	Terminal, male
10	203080000068	4	Blind plug
11	203080000086	3	Sheath
12	203080000562	5	Cable, thin wall (red)
13	203080000563	7	Cable, thin wall (black)
14	203080000564	15	Cable, thin wall (white)
15	203080000133	2	Terminal, blade-hole type
16	203080000044	1	Sheath
17	203080000020	1	Lock

7.1.16 PLATFORM HARNESS(PN.105050063001)



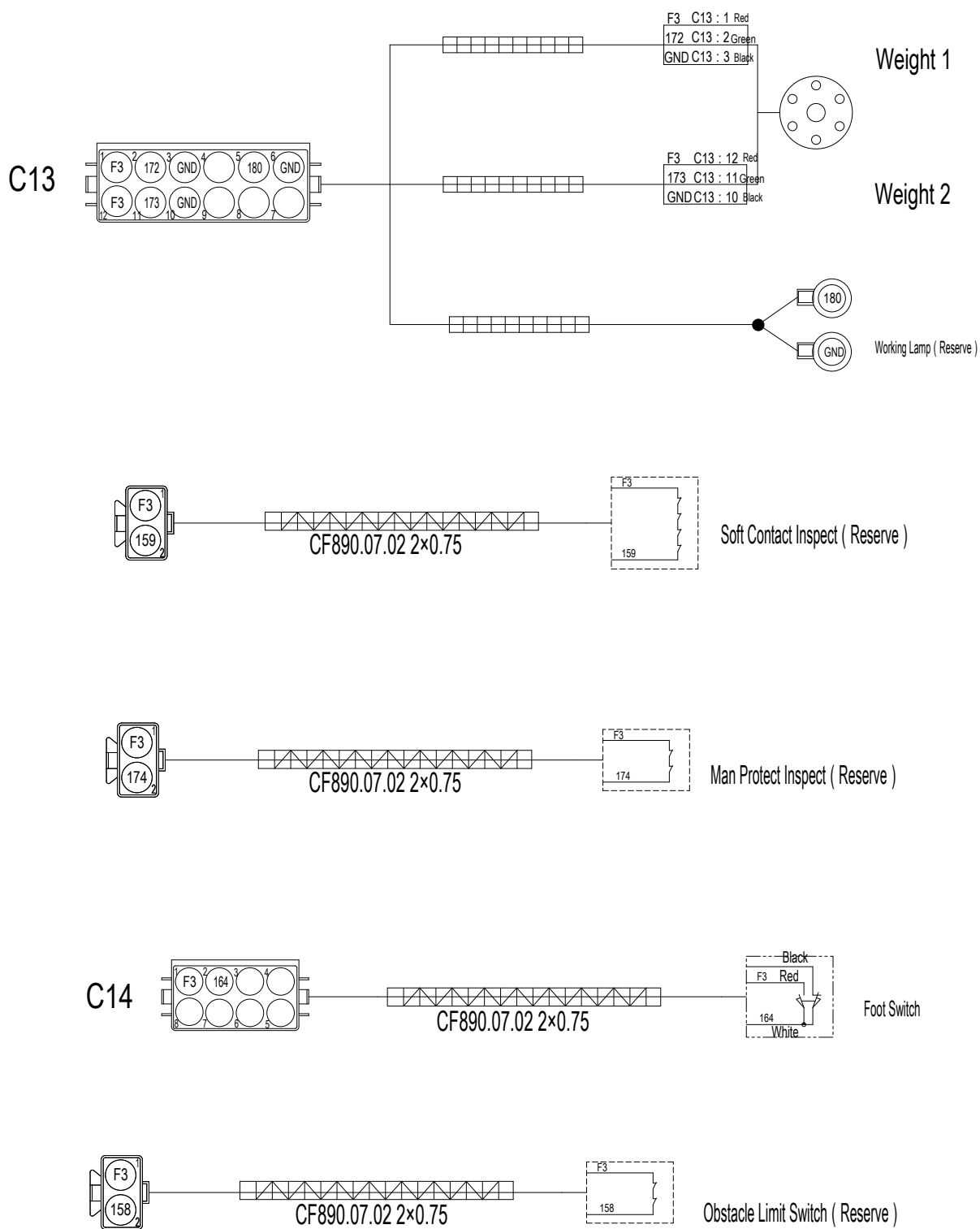
No.	Part No.	Qty.	Description
	105050063001	1	Wiring harness, platform
1	203080000515	1	Connector, 31P, male
2	203080000068	1	Blind plug
3	203080000033	1	Terminal, male
4	203080000410	1	Sheath
5	203080000016	1	Lock
6	203080000041	1	Terminal, female
7	203080000419	1	Nylon hose, closed-end
8	203080000564	1	Cable, thin wall (white)
9	203080000562	1	Cable, thin wall (red)
10	203080000463	1	Nylon hose, closed-end
11	203080000437	1	End attachments, 2-pin, female
12	203080000448	1	Rubber, 2-pin
13	203060000096	1	End clip, 180 deg.
14	203080000037	1	Corrugated pipe
15	203080000404	1	Sheath
16	203080000032	1	Lock
17	203080000508	1	End clip
18	203080000473	1	Cover, waterproof
19	203080000474	1	Cover, waterproof
20	203080000405	1	Sheath
21	203080000046	1	Lock
22	203080000086	1	Sheath
23	203080003584	1	Sheath
24	203080003585	1	Terminal
25	203080003586	4	Seal Ring
26	203080003587	12	Blind Plugging

7.1.17 PLATFORM HARNESS (PN.103006063009)

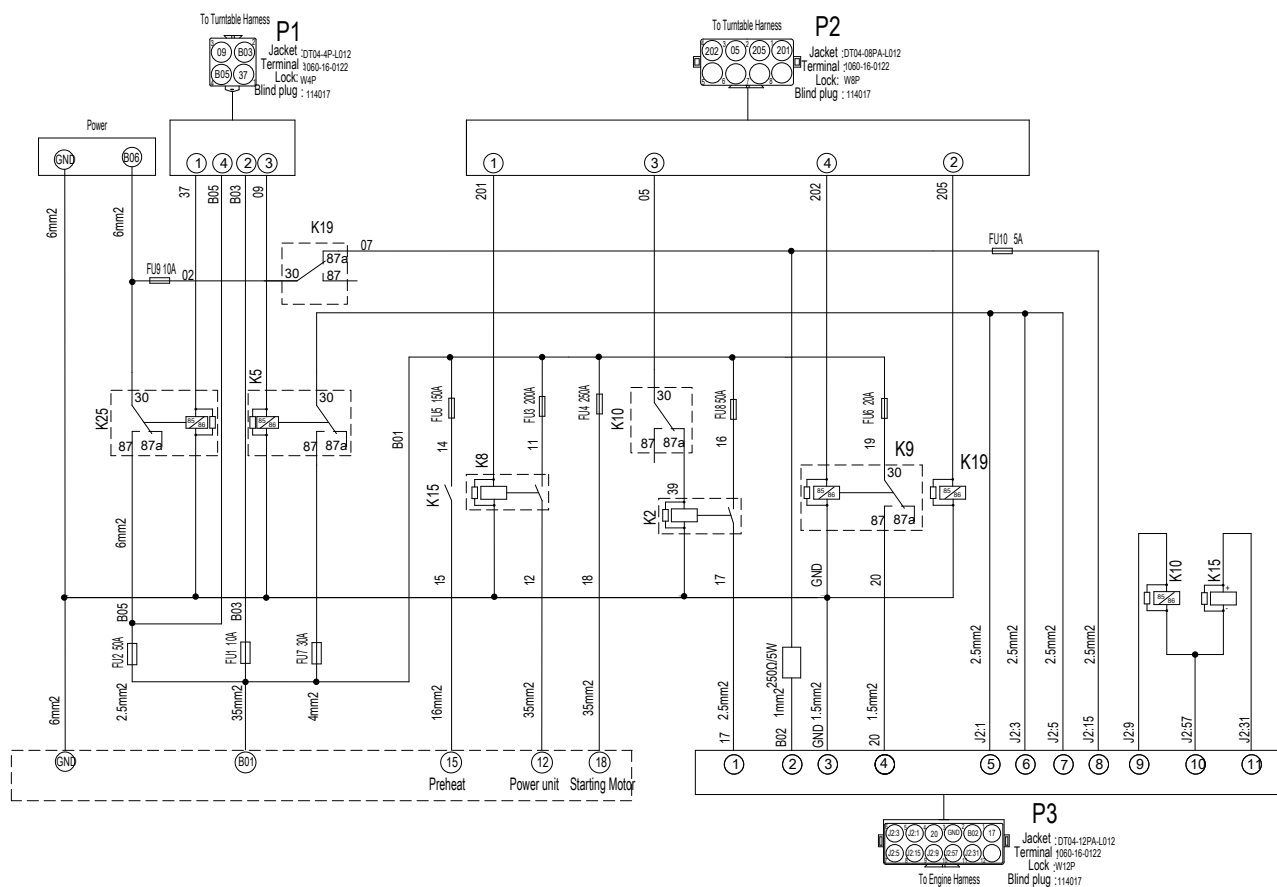


No.	Part No.	Qty.	Description
	103006063009	1	Wiring harness, platform
1	203080000155	1	Sheath
2	203080000159	1	Lock
3	203080000041	8	Terminal, female
4	203080000068	8	Blind plug
5	203080003001	1	End clip
6	203080000037	1m	Corrugated pipe
7	203080000562	2	Cable, thin wall (red)
8	203080000563	2	Cable, 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

7.1.18 PLATFORM SENSORS HARNESS(PN.105031060013)



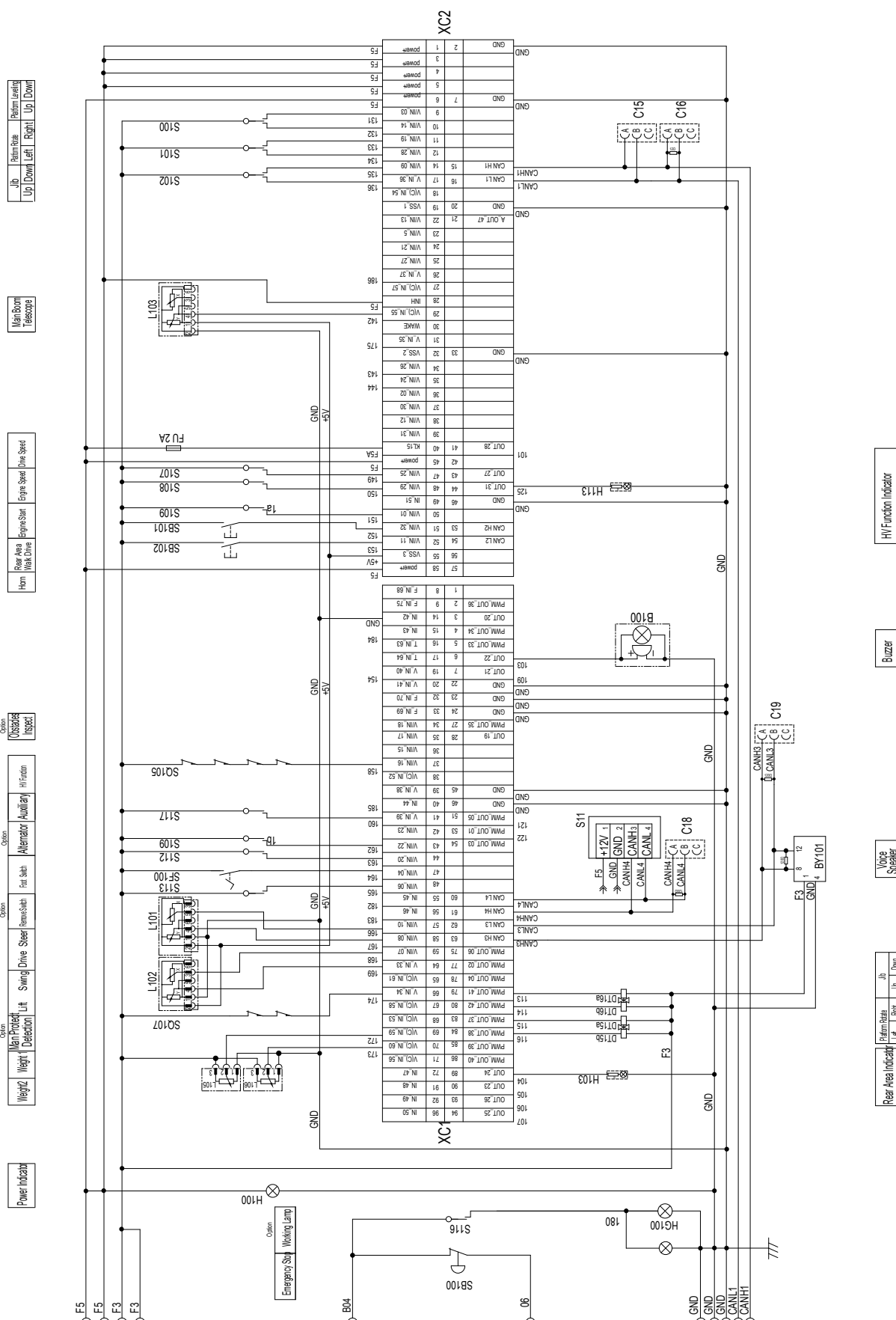
7.1.19 SCHEMATIC OF POWER SWITCH BOX(PN.105025063046)



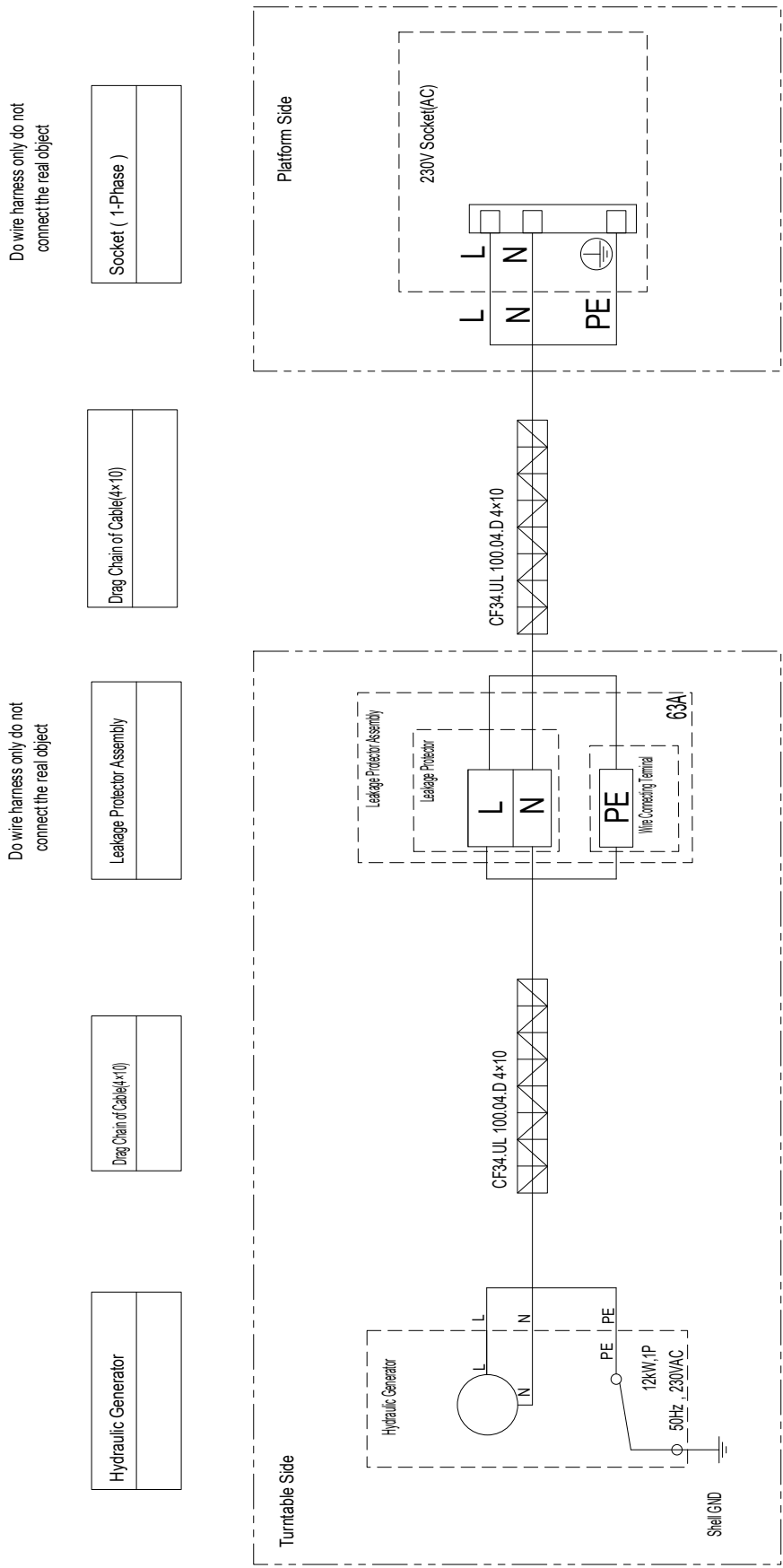
Electrical schematic of turntable, hydraulic generator(Cummins)



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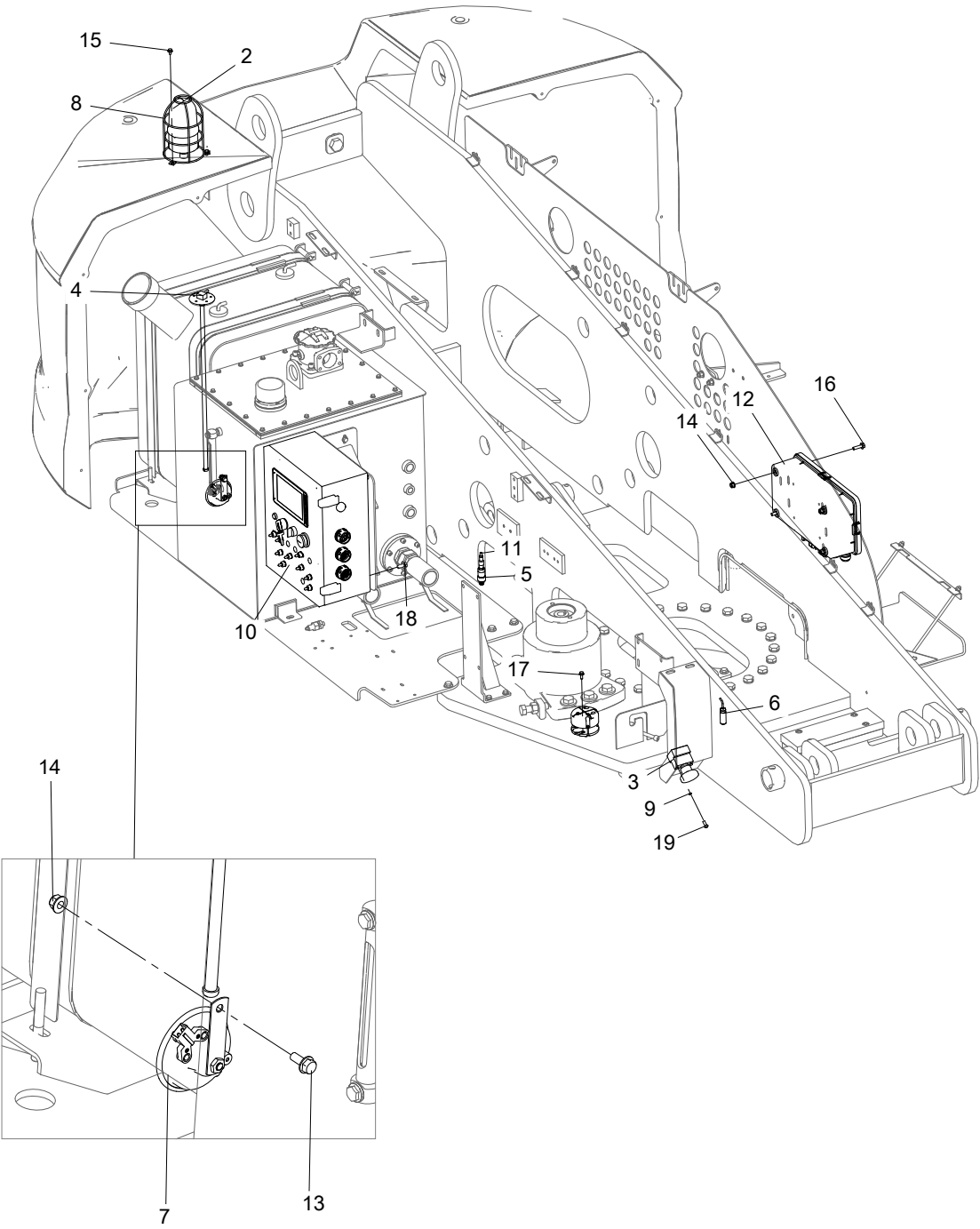


Electrical schematic of hydraulic generator(Australia)



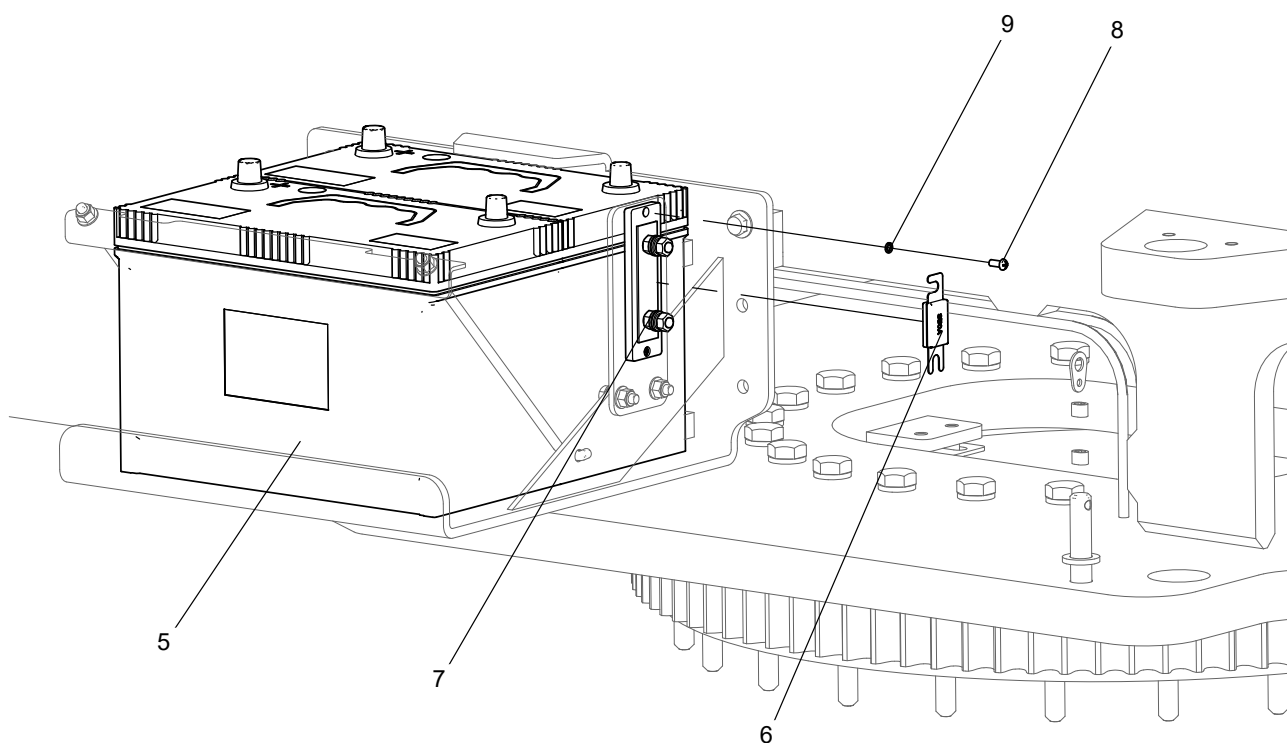
7.2 ELECTRICAL SYSTEM(DEUTZ D2.9L4/NORTH AMERICA)

7.2.1 TURNTABLE ELECTRICAL COMPONENTS INSTALLATION



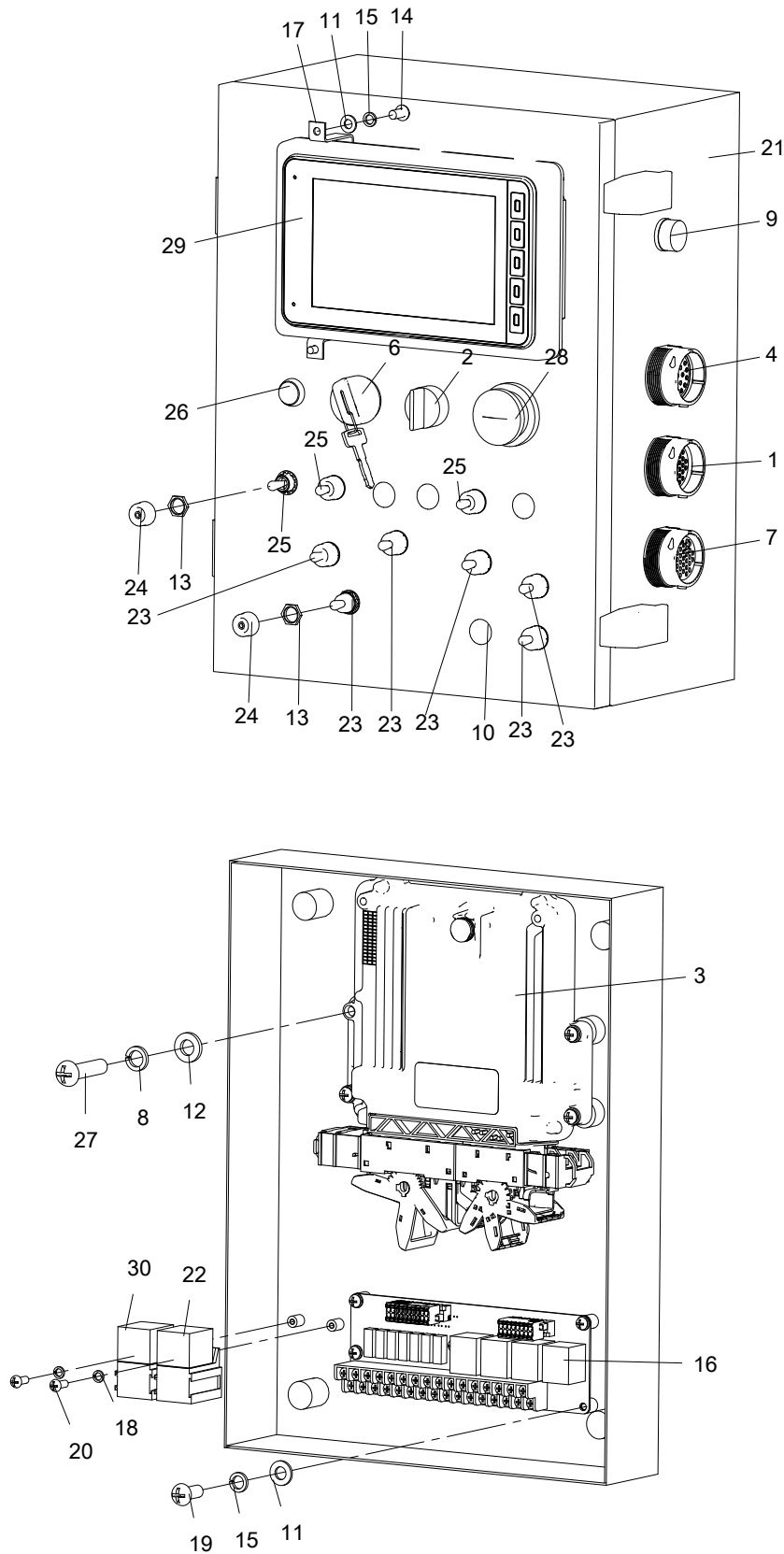
No.	Part No.	Qty.	Description
1	103008063058		Options, Level sensor installation
1-1	203150000039	1	Level sensor(1000167)
1-2	203060000111	1	Level sensor(1000499)
2	203050003017	1	Beacon light
3	203060000024	1	Power-off switch
4	203150000006	1	Sensor, liquid level
5	203150000055	1	Pressure sensor
6	203150003010	1	Proximity switch
7	203050000034	1	Horn
8	105021060024	1	Guard, beacon light
9	215040000003	2	Washer 5-A2-70 GB/T 93
10	105031060021	1	Ground controller assembly
11	203080003094	1	Plug, with cable
12	203100003012	1	Power switch box
13	215010000234	1	Bolt M8×20-8.8-ZnD GB/T 5789
14	215030000108	4	Nut M8-8-ZnD GB/T 6183
15	215010000229	3	Bolt M6×10-8.8-ZnD GB/T 5789
16	215010000236	4	Bolt M8×30-8.8-ZnD GB/T 5789
17	215010000230	3	Bolt M6×16-8.8-ZnD GB/T 5789
18	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789

7.2.2 BATTERIES INSTALLATION



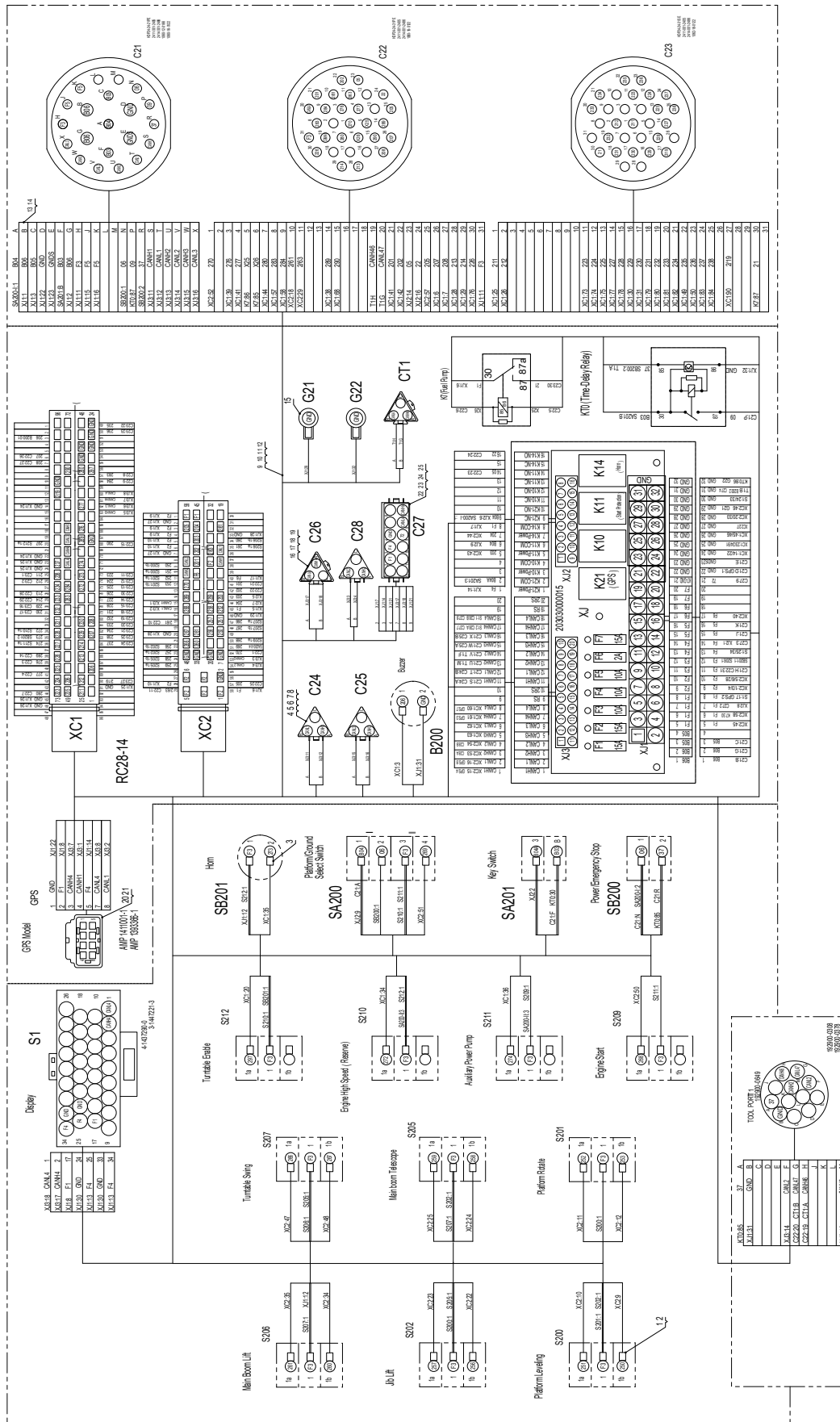
No.	Part No.	Qty.	Description
1	105064063087	1	Electrical power wiring layout(Not Shown)
2	203100000053	2	Jacket, flexible(Not Shown)
3	203100000051	2	Jacket, flexible(Not Shown)
4	203080000250	2	Battery terminal (Not Shown)
5	203100000061	2	Battery, maintenance-free
6	203070003009	1	Fuse
7	203070000056	1	Fuse holder
8	215020000110	2	Screw M5×12-A2-70 GB/T 818
9	215040000003	2	Washer 5-A2-70 GB/T 93

7.2.3 GROUND CONTROL BOX ASSEMBLY(PN.105031060021)



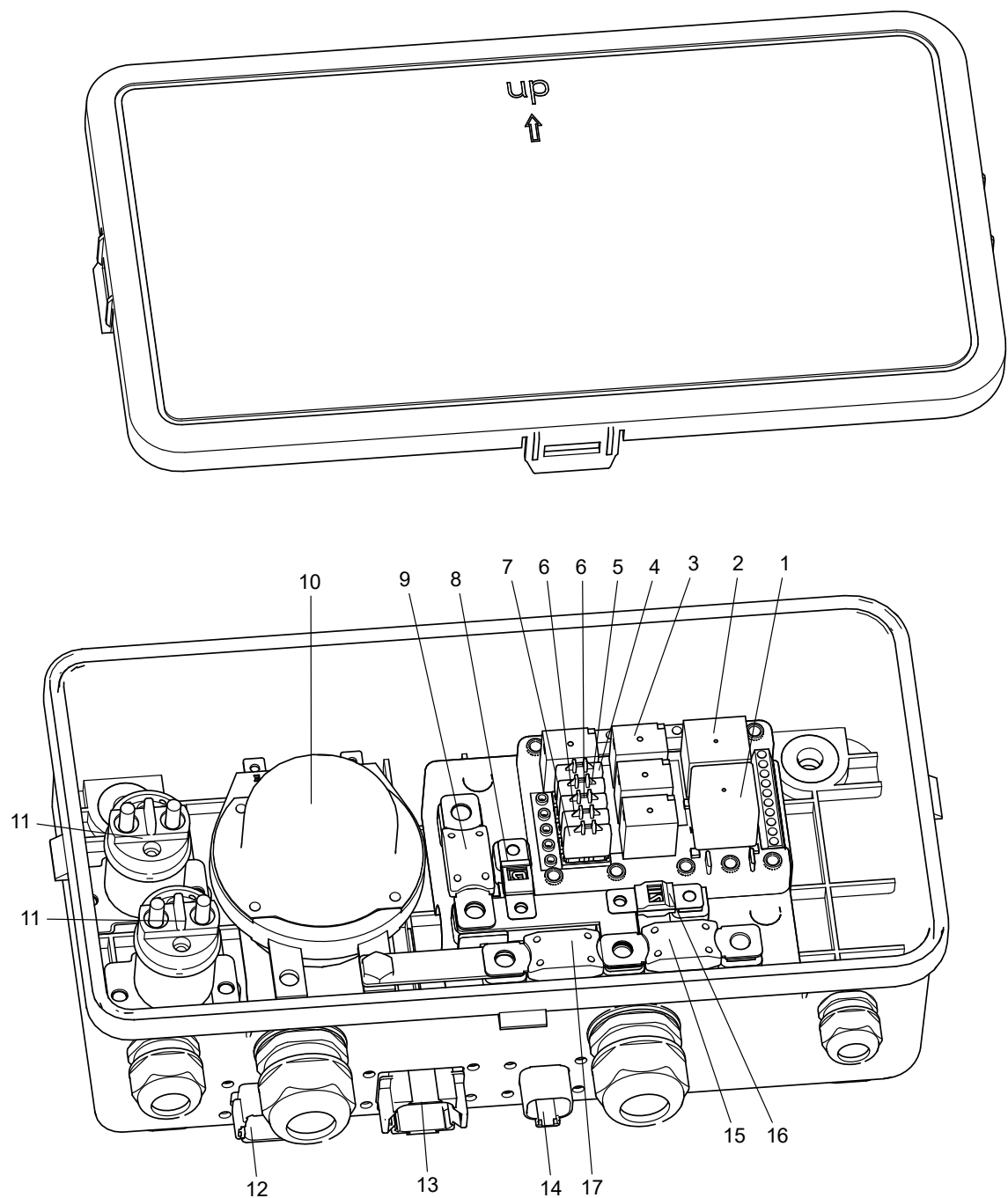
No.	Part No.	Qty.	Description
1	203080000523	1	Connector, 31P, male
2	203060000029	1	Select switch
3	203020000038	1	Controller
4	203080000518	1	Connector, 21-pin, male
5	105070063003	1	Membrane, ground controller(Not shown)
6	203060000114	1	Key switch
7	203080000516	1	Connector, 31P, female
8	215040000004	4	Washer 6-A2-70 GB/T 93
9	203050003021	1	Buzzer
10	105045060004	4	Plug, controller
11	215040000032	11	Washer 5-A2 GB/T 97.1
12	215040000033	4	Washer 6-A2 GB/T 97.1
13	203080000109	9	Nut
14	215020000109	6	Screw M5×10-A2-70 GB/T 818
15	215040000003	11	Washer 5-A2-70 GB/T 93
16	203030000015	1	Integrated board, relay
17	105001060106	3	Retaining plate, display screen
18	215040000002	2	Washer 4-A2-70 GB/T 93
19	215020000110	5	Screw M5×12-A2-70 GB/T 818
20	215020000104	2	Screw M4×10-A2-70 GB/T 818
21	113001063012	1	Ground controller
22	203040003005	1	Delay relay
23	203060000003	6	Switch, toggle
24	203080000101	9	Cap, waterproof
25	203060000021	3	Switch, toggle
26	203060000020	1	Button, yellow
27	215020000118	4	Screw M6×25-A2-70 GB/T 818
28	203060000142	1	Emergency stop switch
29	203200000004	1	Display screen
30	203040000003	1	Relay
31	105025063005	1	PC film, ground controller(Not shown)

7.2.4 GROUND CONTROL BOX HARNESS(PN.105031060017)



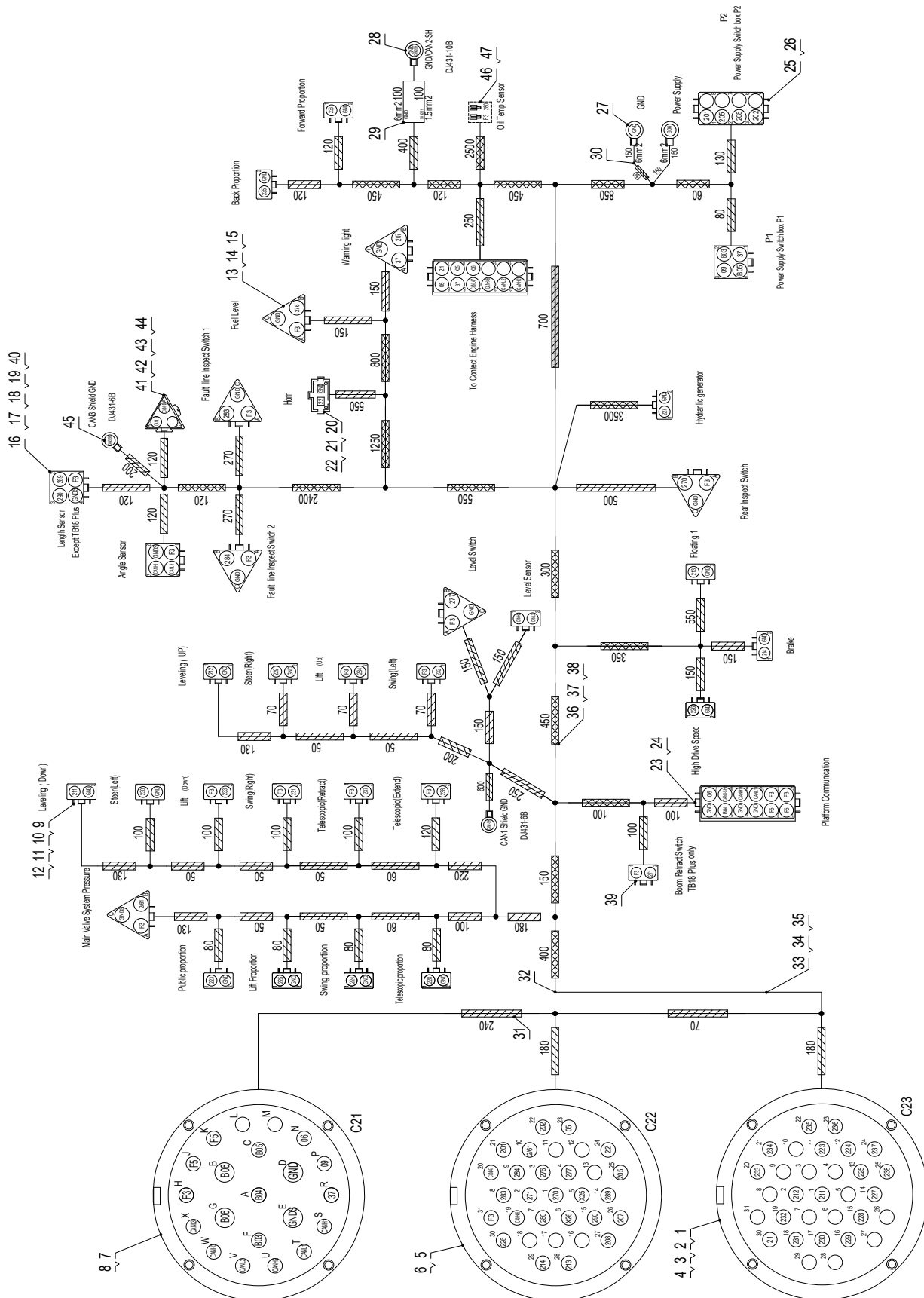
No.	Part No.	Qty.	Description
	105031060017	1	Ground control box wiring diagram
1	203080000036	36	Terminal
2	203080000022	1	Heat shrink tube
3	203080000023	4	Terminal, blade-hole type
4	203080000404	3	Sheath
5	203080000032	3	Lock
6	203080000041	10	Terminal, female
7	203080000068	5	Blind plug
8	203080000473	3	Cover, waterproof
9	203080000564	15	Cable, thin wall (white)
10	203080000562	5	Cable, thin wall (red)
11	203080000563	7	Cable, thin wall (black)
12	216020000020	30	Cable tie, nylon
13	203080000047	1	Cable
14	203080000196	1	Cable
15	203080000133	3	Terminal, blade-hole type
16	203080000405	2	Sheath
17	203080000046	2	Lock
18	203080000033	4	Terminal, male
19	203080000086	2	Sheath
20	203080000044	1	Sheath
21	203080000020	1	Lock
22	203080003532	1	Sheathed
23	203080003533	1	Lock
24	203060000085	8	Terminal, female
25	203080000085	4	Blind plug

7.2.5 POWER SWITCH BOX(PN.203100003012)



No.	Part No.	Qty.	Description
1	203040003012	1	Relay
2	203040003011	1	Relay
3	203040003010	4	Relay
4	203070003017	1	Fuse
5	203070003018	1	Fuse
6	203070003016	2	Fuse
7	203070003015	1	Fuse
8	203070003022	2	Fuse
9	203070003019	1	Fuse
10	203040003014	1	Relay
11	203040003013	2	Relay
12	203060000090	1	Connector, 12p, with flange
13	203060000088	1	Connector, 8p, with flange
14	203060003045	1	Connector, 4p,with flange
15	203070003021	1	Fuse
16	203070003020	1	Fuse
17	203990003008	1	Fitting, waterproof
18	203990003009	2	Fitting, waterproof
19	203990003010	1	Connector, waterproof
20	203990003011	1	Cover plate
21	203990003012	1	Pedestal assembly

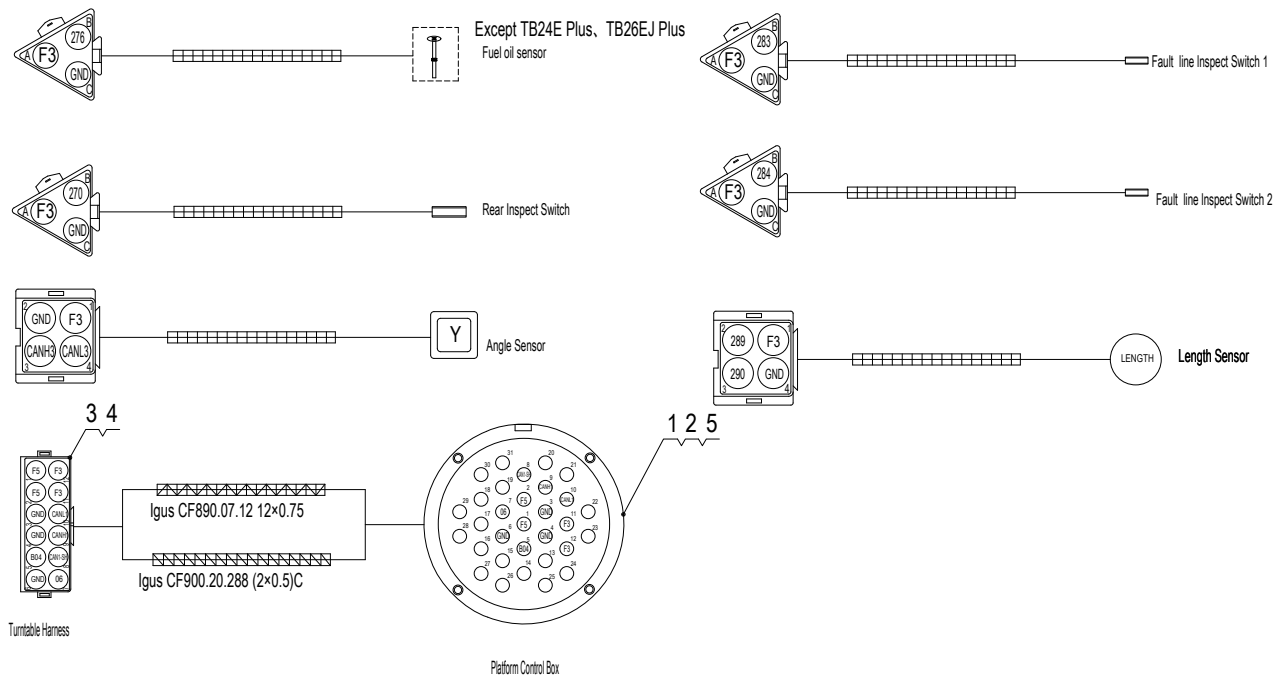
7.2.6 TURNTABLE HARNESS(PN.105064063054)



No.	Part No.	Qty.	Description
	105064063054	1	Turntable Harness
1	203080000515	1	Connector, 31P, male
2	203060000096	3	End clip, 180 deg.
3	203080000033	21	Terminal, male
4	203080000068	23	Blind plug
5	203080000520	1	Connector, 31P, female
6	203080000041	145	Terminal, female
7	203080000517	1	Connector, 21-pin, female
8	203060000097	4	Terminal, #12, female
9	203080000410	22	Sheath
10	203080000016	22	Lock
11	203080000437	22	End attachments, 2-pin, female
12	203080000448	22	Rubber, 2-pin
13	203080000404	7	Sheath
14	203080000032	7	Lock
15	203080000508	7	End clip
16	203080000044	3	Sheath
17	203080000020	3	Lock
18	203080000445	3	End attachments, 4-pin, female
19	203080000446	3	Rubber, 4-pin
20	203080000427	1	Sheath
21	203080000428	2	Pin, female
22	203080000429	1	Cap, waterproof
23	203080000414	2	Sheath
24	203080000159	2	Lock
25	203080000100	1	Sheath
26	203080000112	1	Lock
27	203080000134	2	Terminal, blade-hole type
28	203080000124	1	Terminal, blade-hole type
29	203080000191	4	Cable
30	203080000161	3	Cable
31	203080000417	1	Nylon hose, closed-end
32	203080000419	1	Nylon hose, closed-end
33	203080000564	150	Cable, thin wall (white)
34	203080000563	60	Cable, thin wall (black)
35	203080000562	30	Cable, thin wall (red)
36	203080000424	7	Nylon hose, closed-end

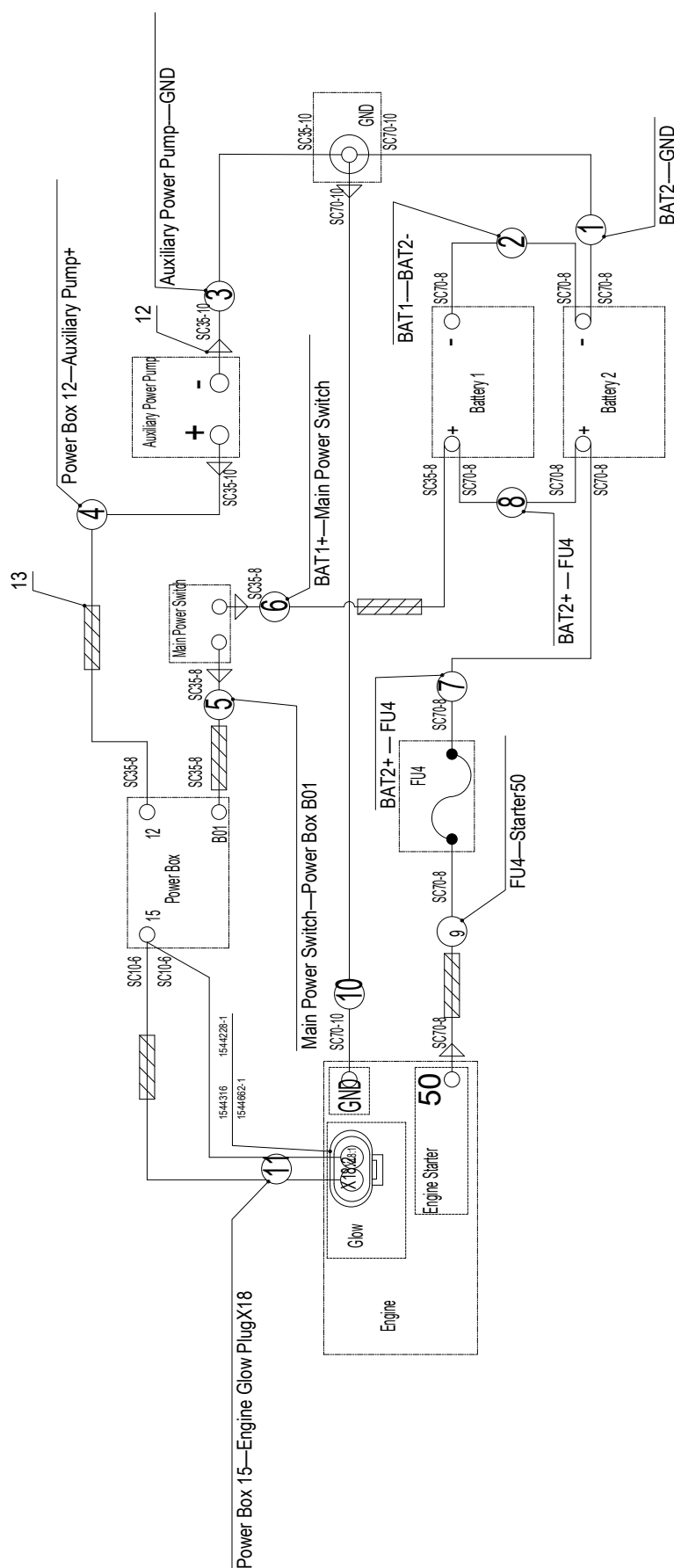
No.	Part No.	Qty.	Description
37	203080000422	5	Nylon hose, closed-end
38	203080000037	2	Corrugated pipe
39	203080000474	2	Cover, waterproof
40	203080000492	1	Cover, waterproof
41	203080000405	1	Sheath
42	203080000046	1	Lock
43	203080000455	1	End attachments, 3-pin, male
44	203080000086	1	Sheath
45	203080000133	2	Terminal, blade-hole type
46	203080000130	1	Terminal
47	203080000129	1	Jacket, flexible

7.2.7 TURNTABLE SENSORS HARNESS (PN.105031060019)



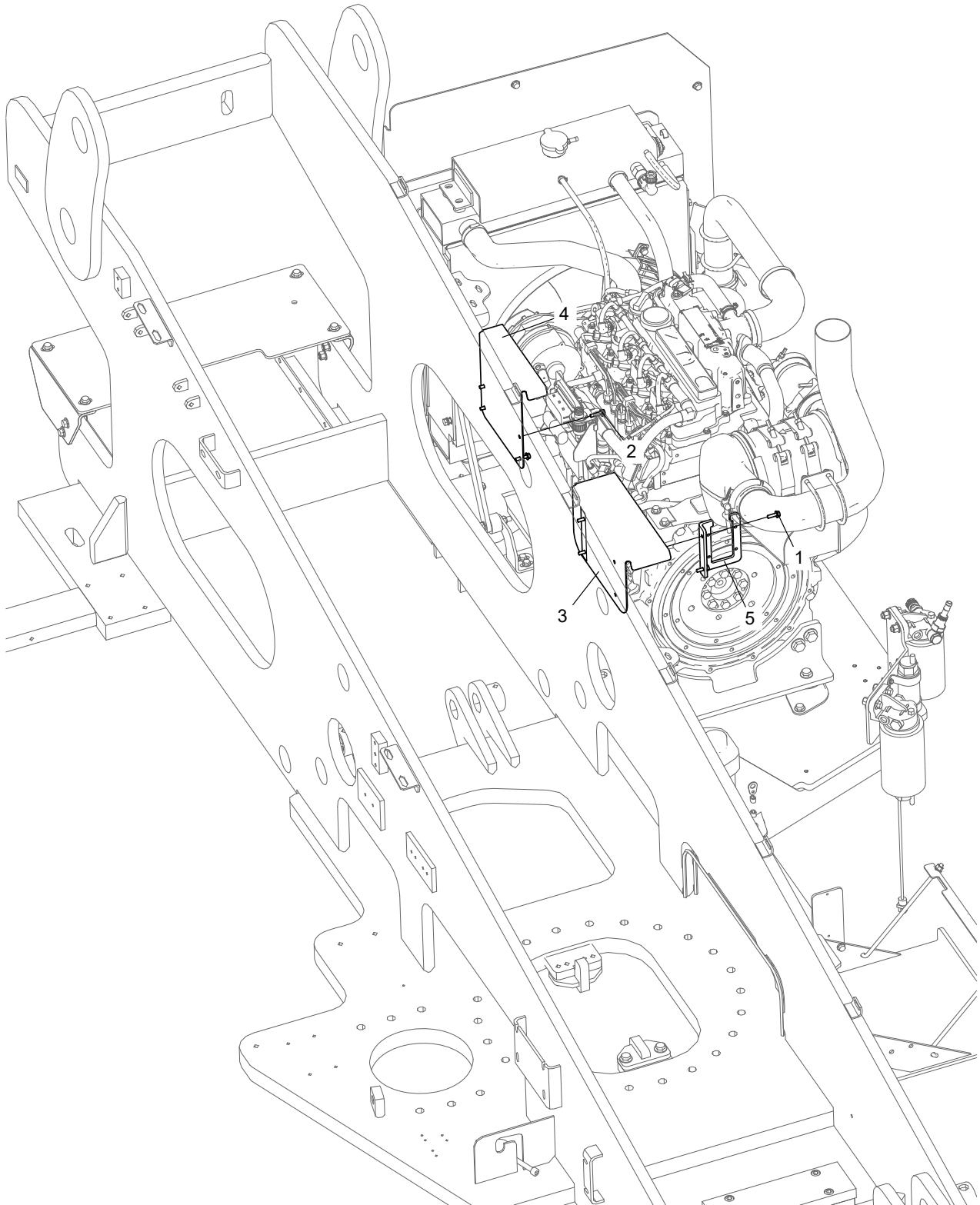
No.	Part No.	Qty.	Description
	105031060019	1	Turntable Sensors Harness
1	203080000520	1	Connector, 31P, female
2	203060000096	1	End clip, 180 deg.
3	203080000403	1	Sheath
4	203080000157	1	Lock
5	203080000068	19	Blind plug

7.2.8 ELECTRICAL POWER WIRING LAYOUT(PN.105064063087)



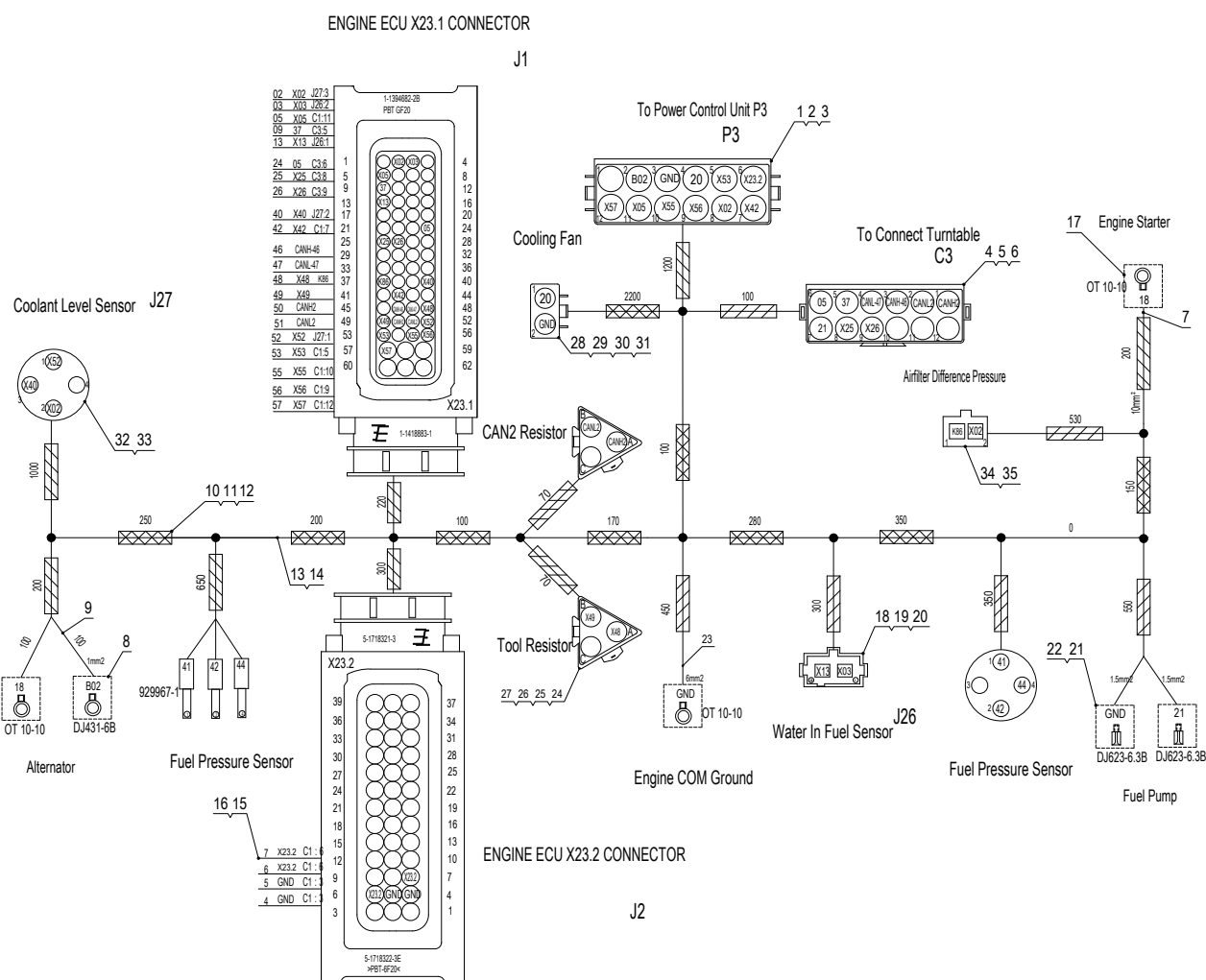
No.	Part No.	Qty.	Description
	105064063087	1	Electrical power wiring layout
1	203230000103	1	Power harness
2	203230000364	1	Power harness
3	203230000504	1	Power harness
4	203230000527	1	Power harness
5	203230000568	1	Power cable kit
6	203230000564	1	Power cable kit
7	203230000363	1	Power harness
8	203230000404	1	Power harness
9	203230000264	1	Power harness
10	203230000501	1	Power harness
11	203230000874	1	Power harness
12	203080000004	6	Connector, PVC
13	203080000422	8	Nylon hose, closed-end

7.2.9 ENGINE ELECTRICAL COMPONENTS INSTALLATION



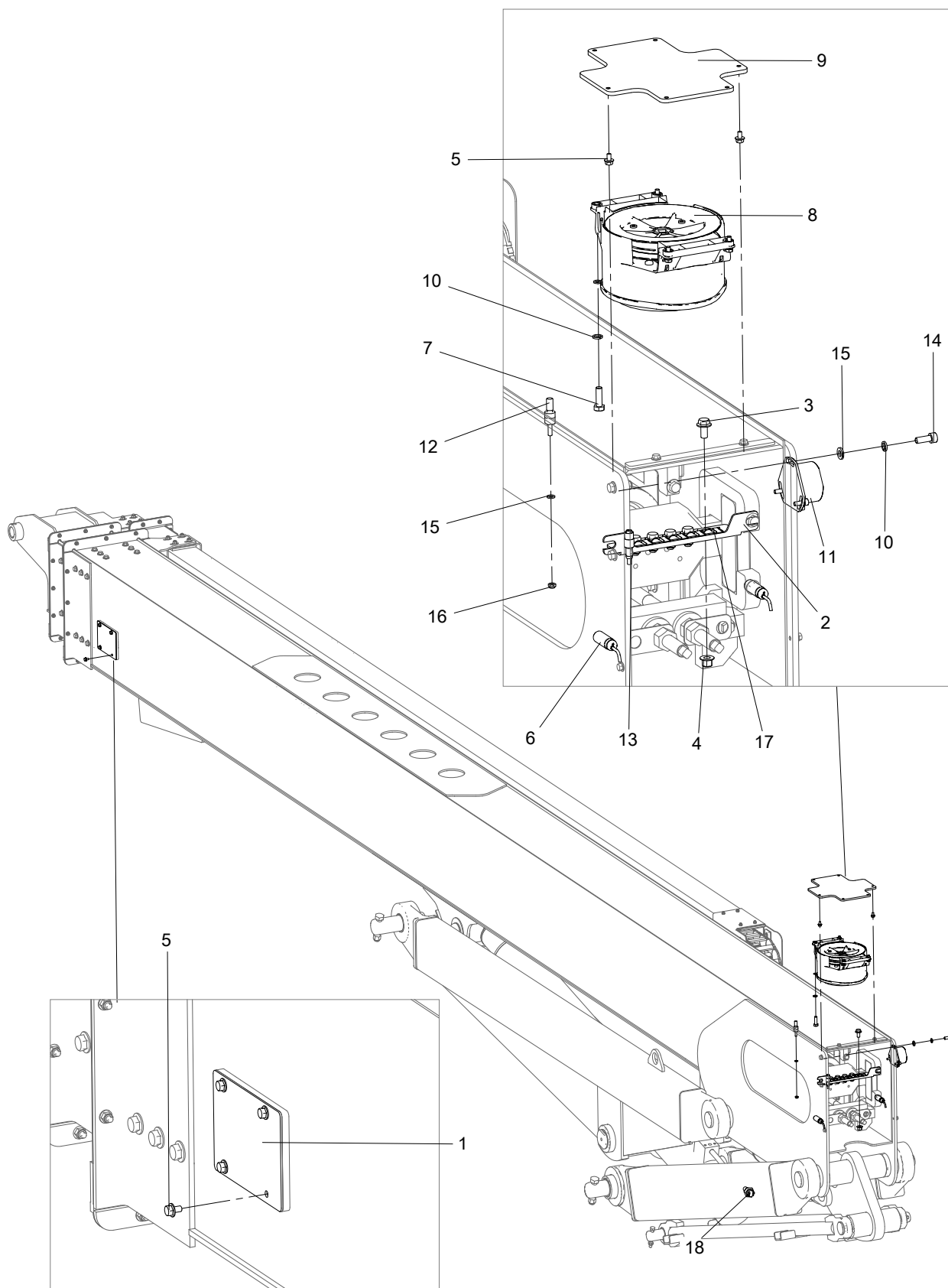
No.	Part No.	Qty.	Description
1	215010000231	4	Bolt M6×20-8.8-ZnD GB/T 5789
2	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
3	105054023053	1	Rain cover
4	105054023052	1	Rain cover
5	105054023051	2	Plate, bending
6	105068063080	1	Engine Harness(Not shown)

7.2.10 ENGINE HARNESS(PN.105068063080)



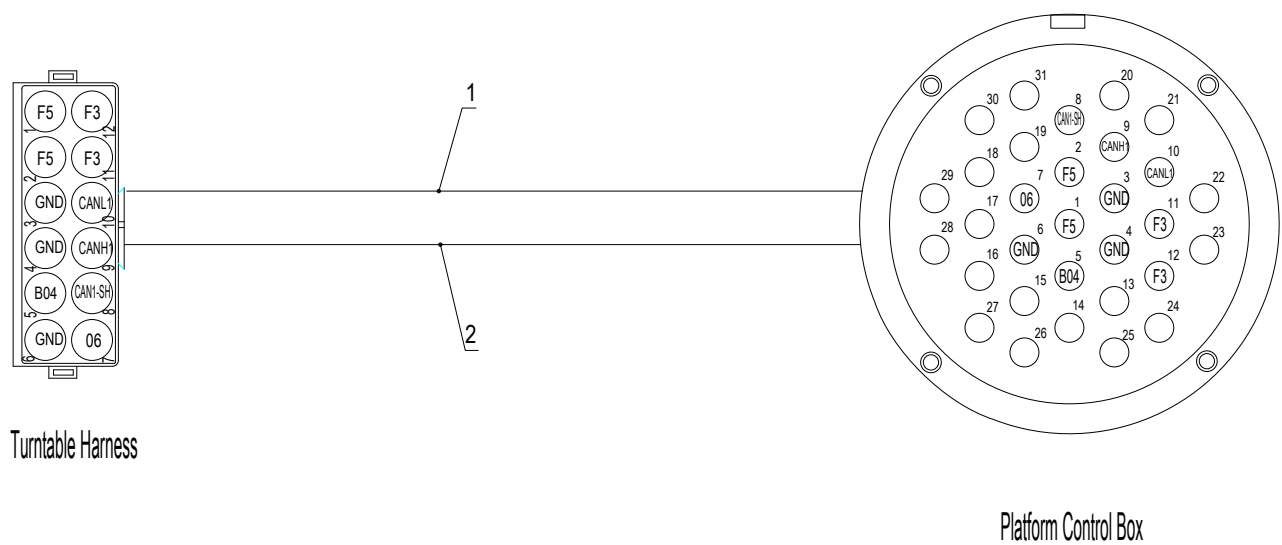
No.	Part No.	Qty.	Description
	105068063080	1	Engine Harness
1	203080000414	2	Sheath
2	203080000159	2	Lock
3	203080000041	19	Terminal, female
4	203080000403	1	Sheath
5	203080000157	1	Lock
6	203080000033	13	Terminal, male
7	203080000367	1.6	Cable
8	203080000133	1	Terminal, blade-hole type
9	203080000030	1	Heat shrink tube
10	203080000037	2	Corrugated pipe
11	203080000006	4	Corrugated pipe
12	203080000463	4	Nylon hose, closed-end
13	203080000375	30	Cable
14	203080000370	4	Cable
15	203080000369	6	Cable
16	203080000582	3	Cable
17	203080003393	3	Terminal, round top insulated
18	203080000427	1	Sheath
19	203080000428	2	Pin, female
20	203080000429	1	Cap, waterproof
21	203080000129	2	Jacket, flexible
22	203080000130	2	Terminal
23	203080000394	1	Cable
24	203080000405	2	Sheath
25	203080000046	2	Lock
26	203080000455	2	End attachments, 3-pin, male
27	203080000086	2	Sheath
28	203080000410	1	Sheath
29	203080000016	1	Lock
30	203080000437	1	End attachments, 2-pin, female
31	203080000448	1	Rubber, 2-pin
32	203080003636	2	Sheath
33	203080003373	6	Terminal
34	203080003637	1	Sheath
35	203080003638	2	Terminal

7.2.11 BOOM ELECTRICAL COMPONENTS INSTALLATION



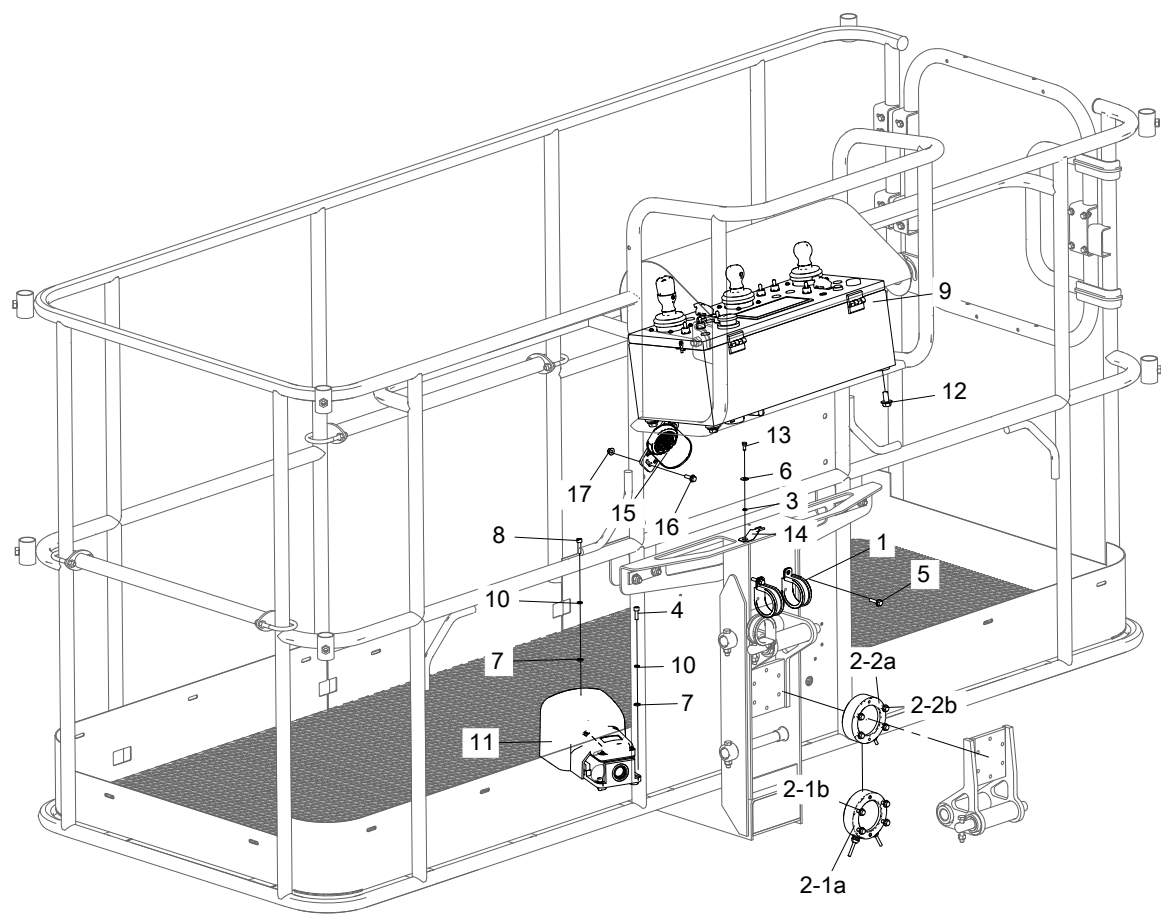
No.	Part No.	Qty.	Description
1	105050013000	1	Cover
2	105049013002	1	Bracket
3	215010000237	5	Bolt M10×20-8.8-ZnD GB/T 5789
4	215030000109	5	Nut M10-8-ZnD GB/T 6183
5	215010000229	6	Bolt M6×10-8.8-ZnD GB/T 5789
6	203150003010	2	Proximity switch
7	215010000051	4	Bolt M6×20-A2-70 GB/T 5783
8	203150000051	1	Length sensor
9	105001010254	1	Mount, length sensor
10	215040000004	7	Washer 6-A2-70 GB/T 93
11	105050063060		Angle Sensor
11-1	203150000058	1	Sensor, CAN bus(1000052)
11-2	203150003062	1	Dual angle bus sensor(1000604)
12	105001060075	1	Thread rod, for length sensor
13	203080003104	1	Plug, with cable
14	215020000011	3	Screw M6×16-A2-70 GB/T 70.1
15	215040000033	8	Washer 6-A2 GB/T 97.1
16	215030000025	1	Nut M6-8-A2-70 GB/T 889.1
17	203080000525	5	Fixture
18	203150000038	1	Temp sensor
19	203230000929	1	Towline Cable(Not shown)
20	203230000966	1	Towline Cable(Not shown)

7.2.12 CABLE TRACK DIAGRAM(PN.114002063018)



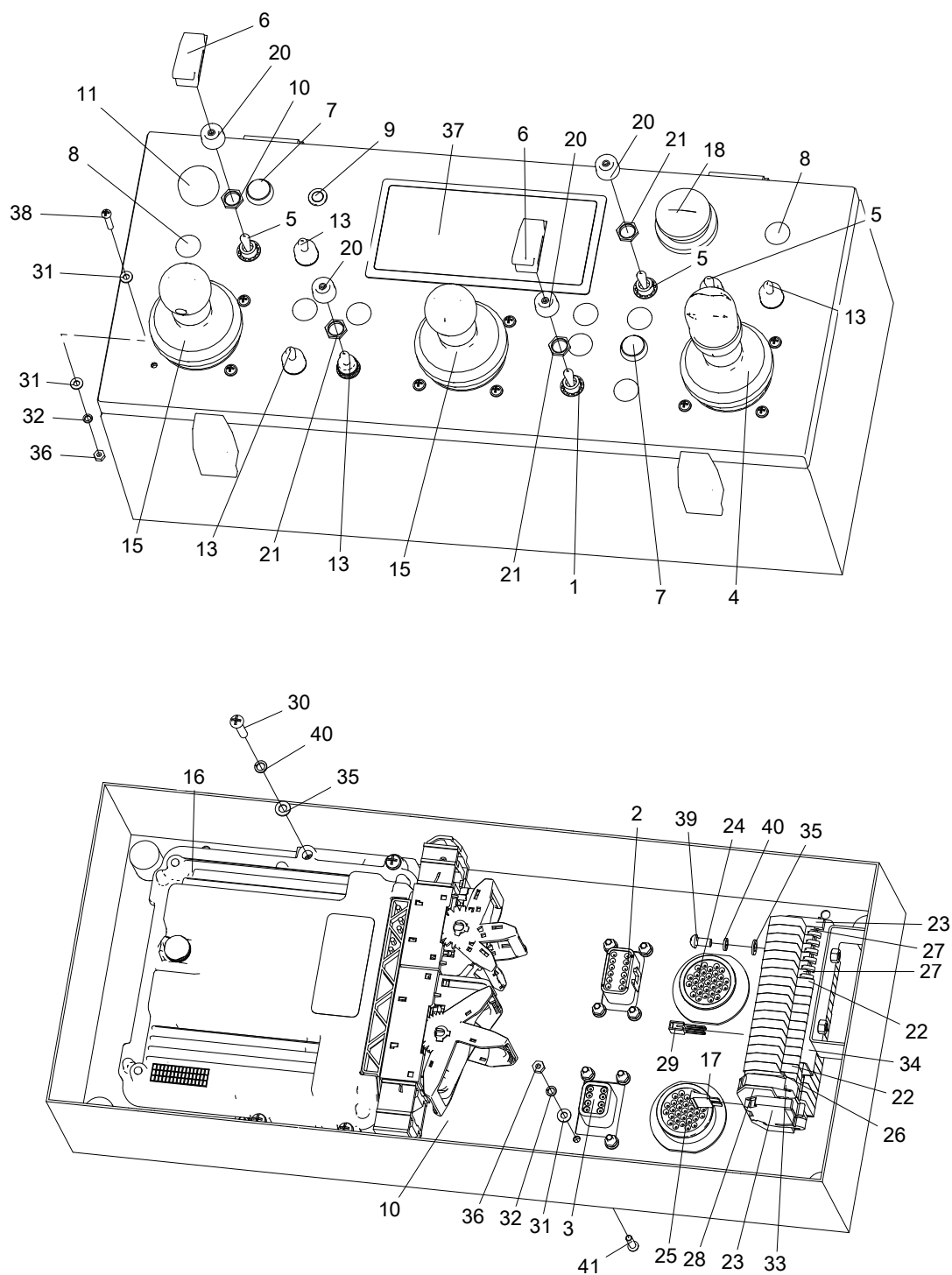
No.	Part No.	Qty.	Description
	114002063018	1	Cable track diagram
1	203080003310	1	Cable, cable track
2	203080003311	1	Cable, CAN bus, cable track

7.2.13 PLATFORM ELECTRICAL COMPONENTS INSTALLATION



No.	Part No.	Qty.	Description
1	216020000025	2	Retaining ring, SSG
2	103006060034		Load sensor options
2-1	103006060029	1	Load sensor
2-1a	203150000070	1	Load sensor
2-1b	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
2-2	103006060026	1	Load sensor, dual-channel
2-2a	203150000069	1	Load sensor
2-2b	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
3	215040000003	1	Washer 5-A2-70 GB/T 93
4	215020000012	2	Screw M6×20-A2-70 GB/T 70.1
5	215010000232	2	Bolt M6×25-8.8-ZnD GB/T 5789
6	215040000132	1	Washer 5-200HV-A2 GT/B 96.1
7	215040000033	3	Washer 6-A2 GB/T 97.1
8	215020000013	1	Screw M6×25-A2-70 GB/T 70.1
9	105050063016	1	Platform controller assembly(See details)
10	215040000004	3	Washer 6-A2-70 GB/T 93
11	203060000009	1	Footswitch
12	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789
13	215010000041	1	Bolt M5×12-A2-70 GB/T 5783
14	203080000525	1	Fixture
15	203050003040	1	Voice Horn
16	215010000231	2	Bolt M6×20-8.8-ZnD GB/T 5789
17	215030000107	2	Nut M6-8-ZnD GB/T 6183

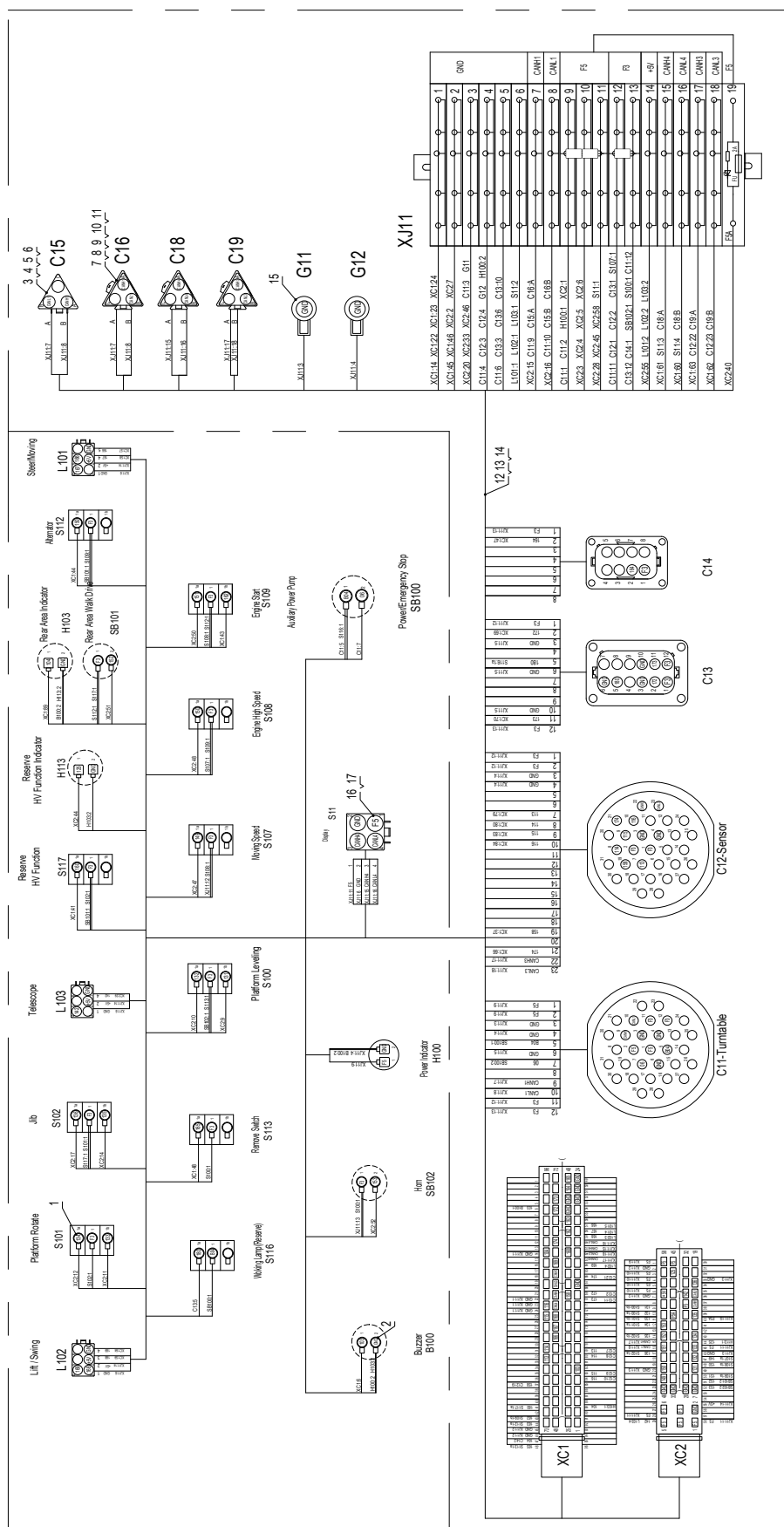
7.2.14 PLATFORM CONTROL BOX ASSEMBLY(PN.105050063068)



No.	Part No.	Qty.	Description
1	2030600000035	1	Switch, toggle
2	2030600000090	1	Connector, 12p, with flange
3	2030600000088	1	Connector, 8p, with flange
4	203060003081	1	Joystick
5	2030600000021	3	Switch, toggle
6	2030600000150	2	Guard, toggle switch
7	2030600000020	2	Button, yellow
8	105045060004	8	Plug, controller
9	203050003014	1	Indicator light
10	105050063019	1	Platform controller
11	203050003021	1	Buzzer
12	105050063021	1	PC film, platform controller
13	2030600000003	4	Switch, toggle
14	105050063020	1	Platform Control Box Assembly
15	203060003084	2	Joystick
16	2030200000038	1	Controller
17	2030700000053	1	Fuse
18	2030600000142	1	Emergency stop switch
19	105050063067	1	Platform control box wiring diagram
20	2030800000101	8	Cap, waterproof
21	2030800000109	8	Nut
22	203080003051	12	Terminal
23	203080003053	2	Terminal block end plate
24	2030800000516	1	Connector, 31P, female
25	2030800000523	1	Connector, 31P, male
26	203080003052	1	End plate
27	203080003054	6	Terminal, GND
28	203080003059	1	End plate
29	203080003058	3	Jumper
30	2150200000113	4	Screw M5×25-A2-70 GB/T 818
31	2150400000031	32	Washer 4-A2 GB/T 97.1
32	2150400000002	20	Washer 4-A2-70 GB/T 93
33	203080003057	1	Terminal
34	2039900000001	1	Guiderail
35	2150400000032	6	Washer 5-A2 GB/T 97.1
36	2150300000002	20	Nut M4-8-A2-70 GB/T 6170
37	203200003002	1	Gauge

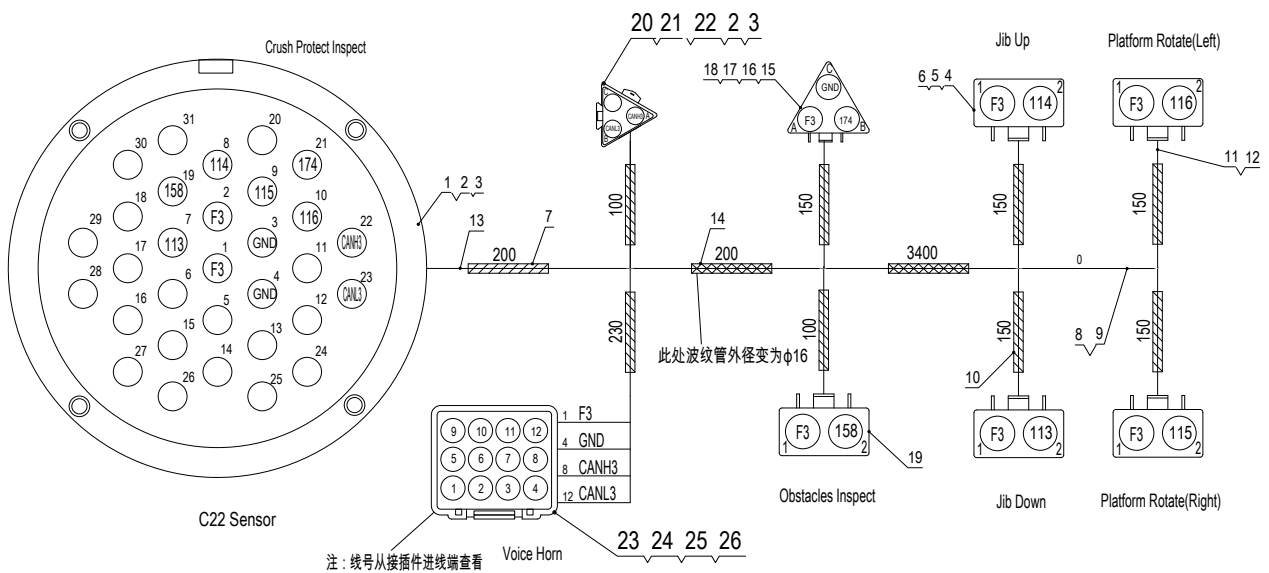
No.	Part No.	Qty.	Description
38	215020000107	12	Screw M4×20-A2-70 GB/T 818
39	215020000109	2	Screw M5×10-A2-70 GB/T 818
40	215040000003	6	Washer 5-A2-70 GB/T 93
41	215020000106	8	Screw M4×16-A2-70 GB/T 818

7.2.15 PLATFORM CONTROL BOX HARNESS(PN.105050063067)



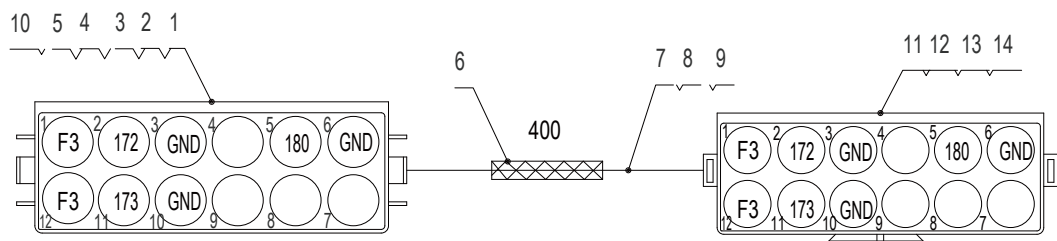
No.	Part No.	Qty.	Description
	105050063067	1	Platform control box wiring diagram
1	203080000023	27	Terminal, blade-hole type
2	203080000036	16	Terminal
3	203080000404	1	Sheath
4	203080000032	1	Lock
5	203080000041	6	Terminal, female
6	203080000473	1	Cover, waterproof
7	203080000405	3	Sheath
8	203080000046	3	Lock
9	203080000033	6	Terminal, male
10	203080000068	4	Blind plug
11	203080000086	3	Sheath
12	203080000562	5	Cable, thin wall (red)
13	203080000563	7	Cable, thin wall (black)
14	203080000564	15	Cable, thin wall (white)
15	203080000133	2	Terminal, blade-hole type
16	203080000044	1	Sheath
17	203080000020	1	Lock

7.2.16 PLATFORM HARNESS(PN.105050063001)



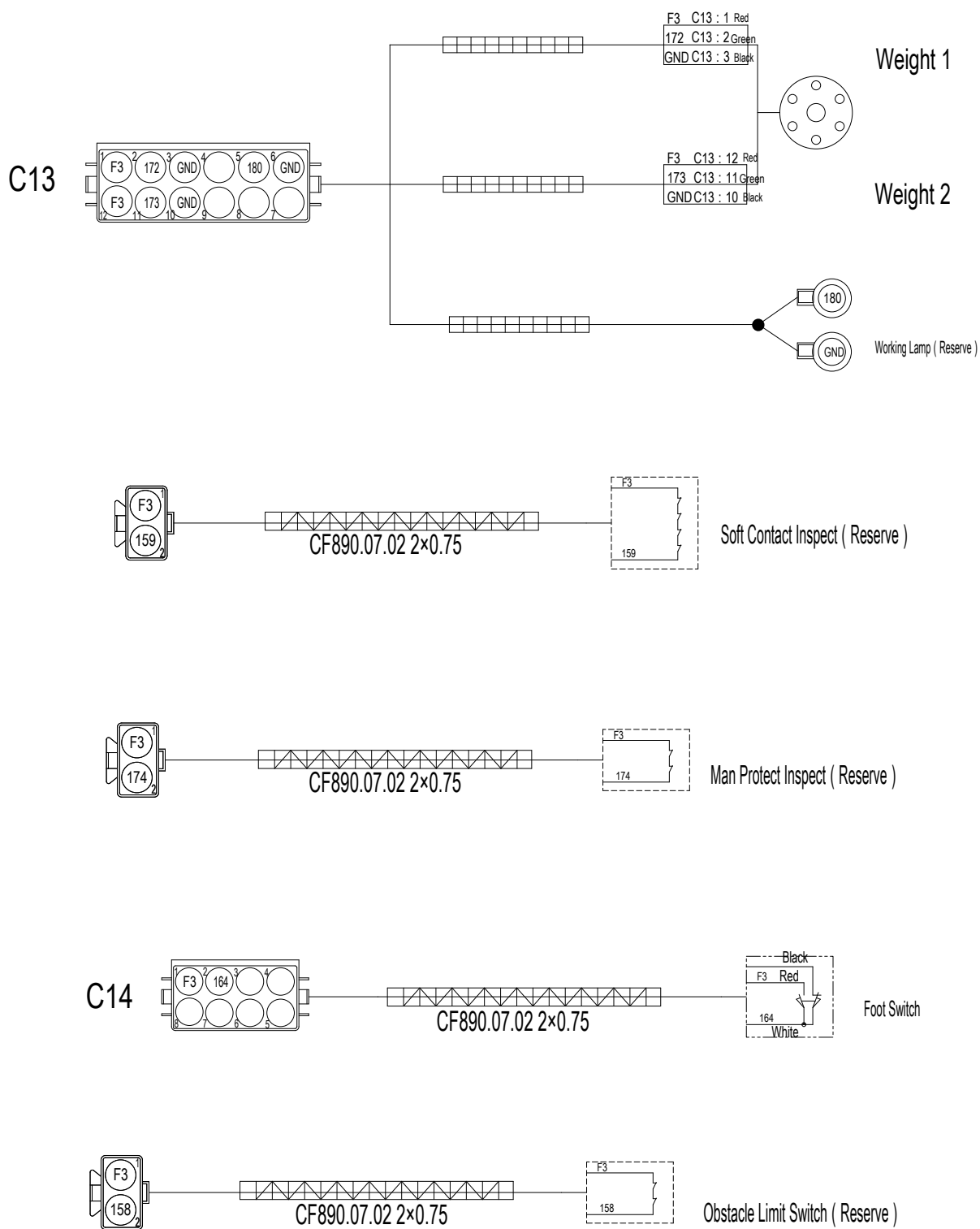
No.	Part No.	Qty.	Description
	105050063001	1	Wiring harness, platform
1	203080000515	1	Connector, 31P, male
2	203080000068	1	Blind plug
3	203080000033	1	Terminal, male
4	203080000410	1	Sheath
5	203080000016	1	Lock
6	203080000041	1	Terminal, female
7	203080000419	1	Nylon hose, closed-end
8	203080000564	1	Cable, thin wall (white)
9	203080000562	1	Cable, thin wall (red)
10	203080000463	1	Nylon hose, closed-end
11	203080000437	1	End attachments, 2-pin, female
12	203080000448	1	Rubber, 2-pin
13	203060000096	1	End clip, 180 deg.
14	203080000037	1	Corrugated pipe
15	203080000404	1	Sheath
16	203080000032	1	Lock
17	203080000508	1	End clip
18	203080000473	1	Cover, waterproof
19	203080000474	1	Cover, waterproof
20	203080000405	1	Sheath
21	203080000046	1	Lock
22	203080000086	1	Sheath
23	203080003584	1	Sheath
24	203080003585	1	Terminal
25	203080003586	4	Seal Ring
26	203080003587	12	Blind Plugging

7.2.17 PLATFORM HARNESS (PN.103006063009)

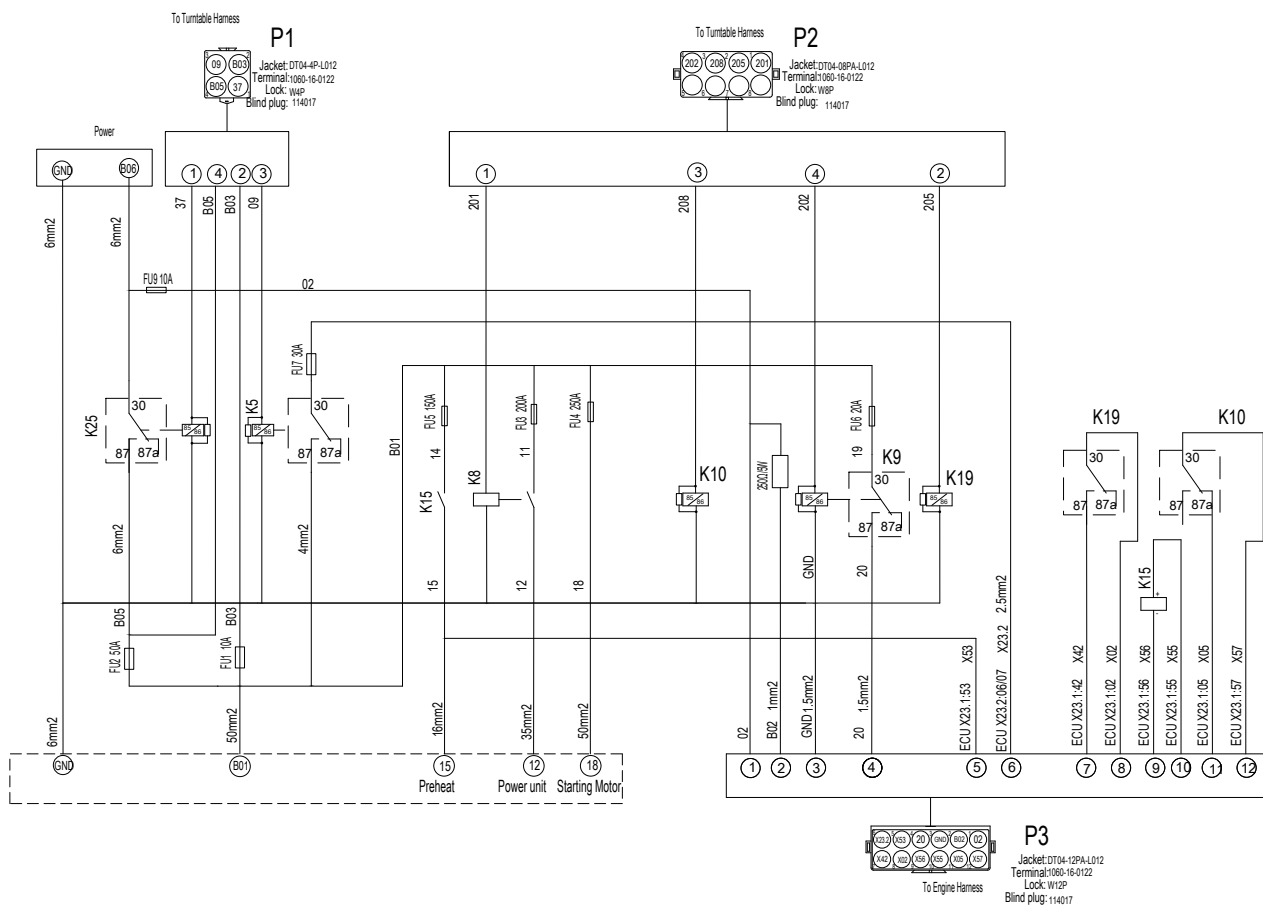


No.	Part No.	Qty.	Description
	103006063009	1	Wiring harness, platform
1	203080000155	1	Sheath
2	203080000159	1	Lock
3	203080000041	8	Terminal, female
4	203080000068	8	Blind plug
5	203080003001	1	End clip
6	203080000037	1m	Corrugated pipe
7	203080000562	2	Cable, thin wall (red)
8	203080000563	2	Cable, 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

7.2.18 PLATFORM SENSORS HARNESS(PN.105031060013)

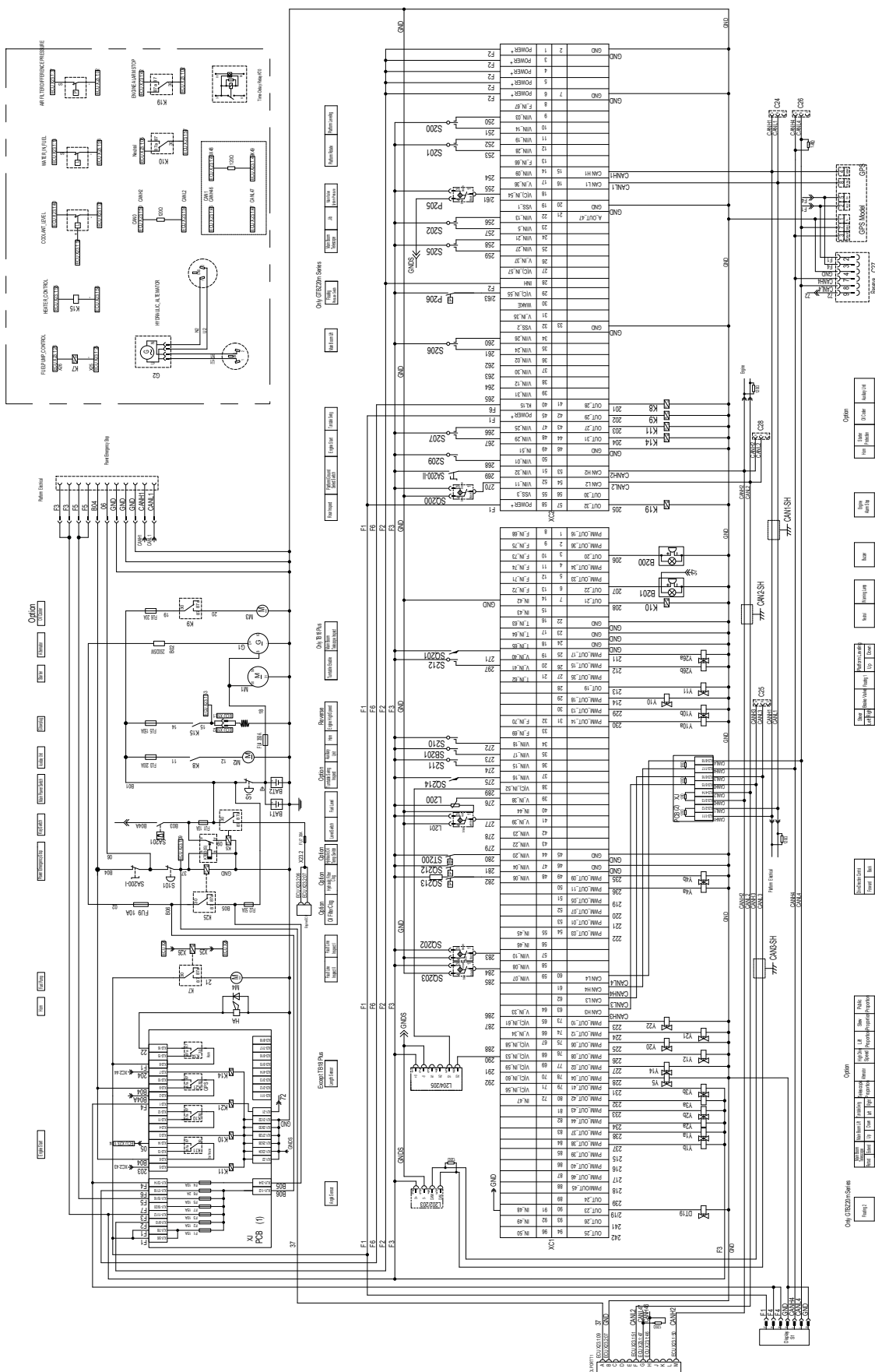


7.2.19 SCHEMATIC OF POWER SWITCH BOX(PN.105024063021)

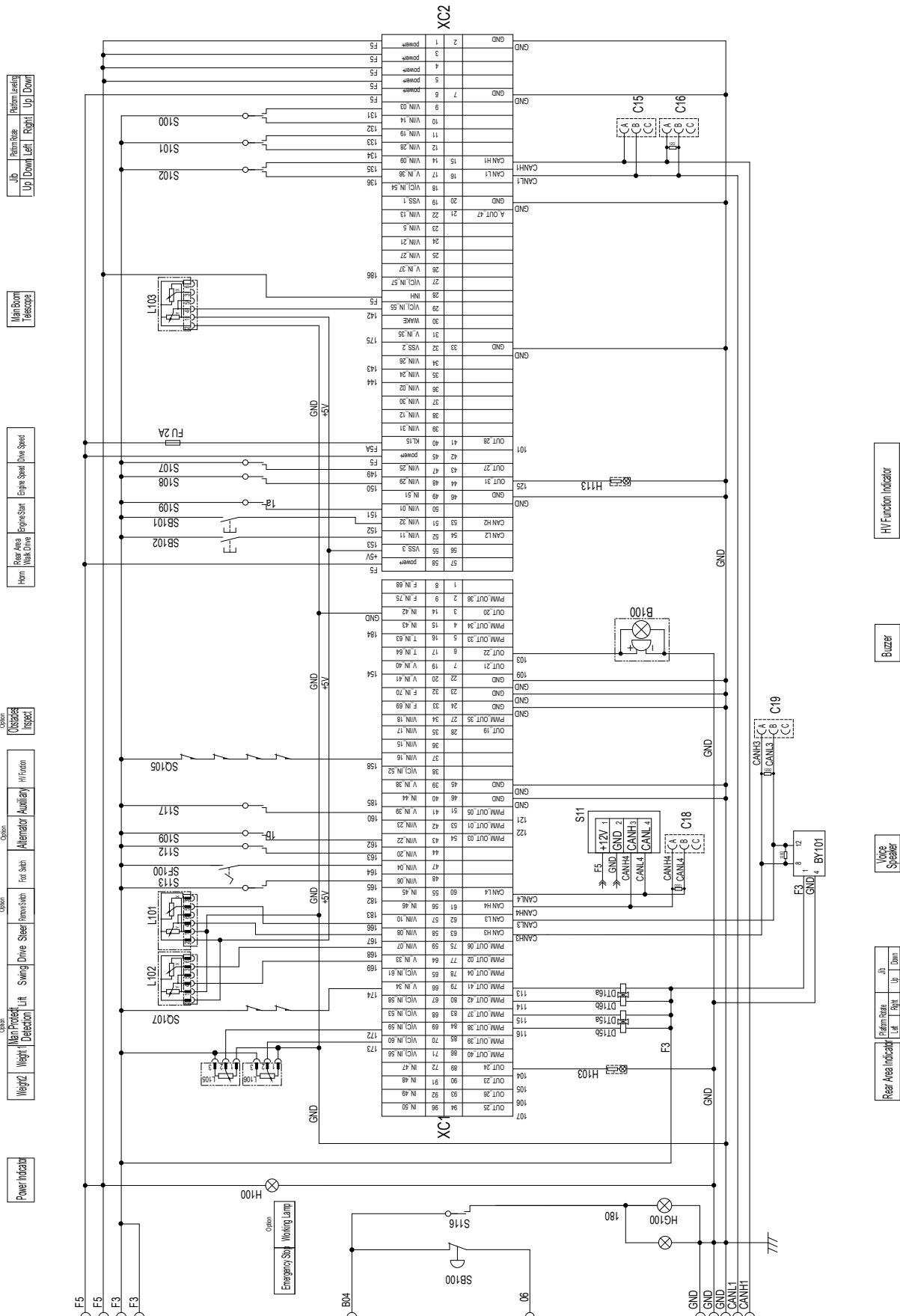


7.2.20 ELECTRICAL SCHEMATIC

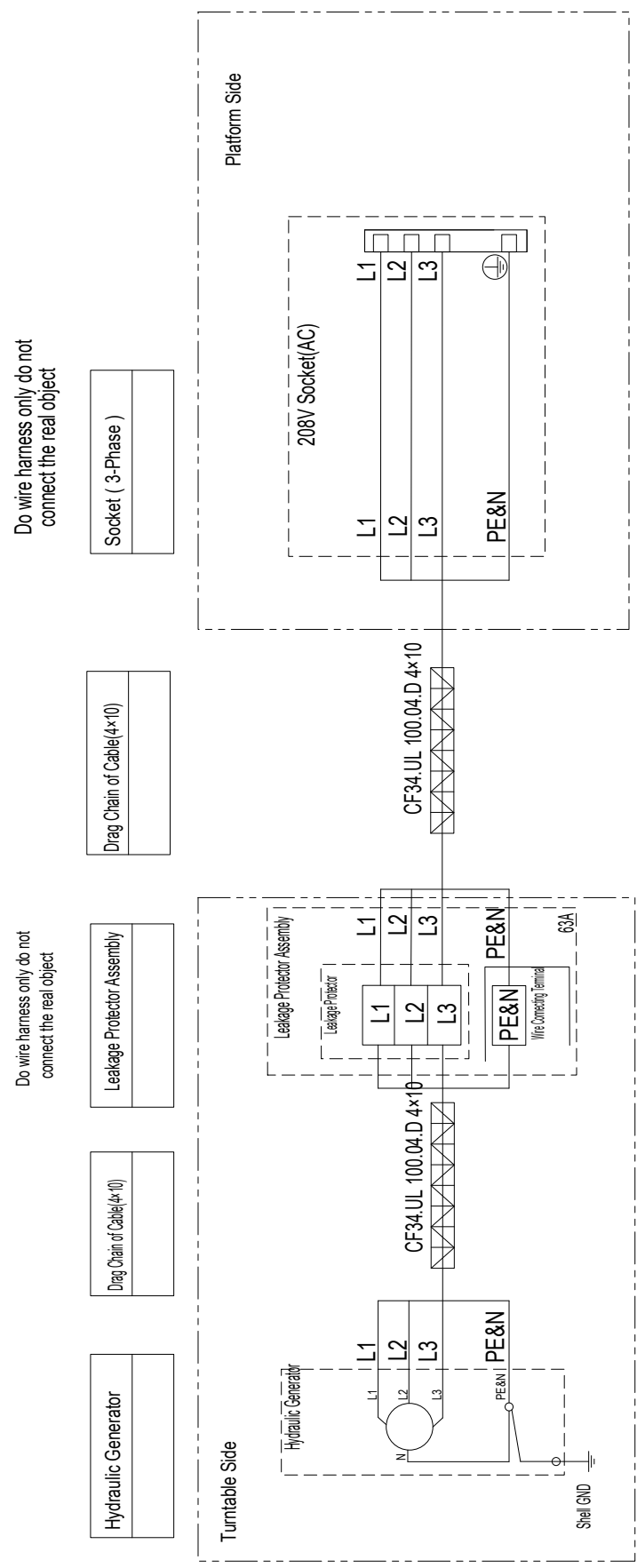
Electrical schematic of turntable, hydraulic generator(Deutz)



Electrical schematic of platform

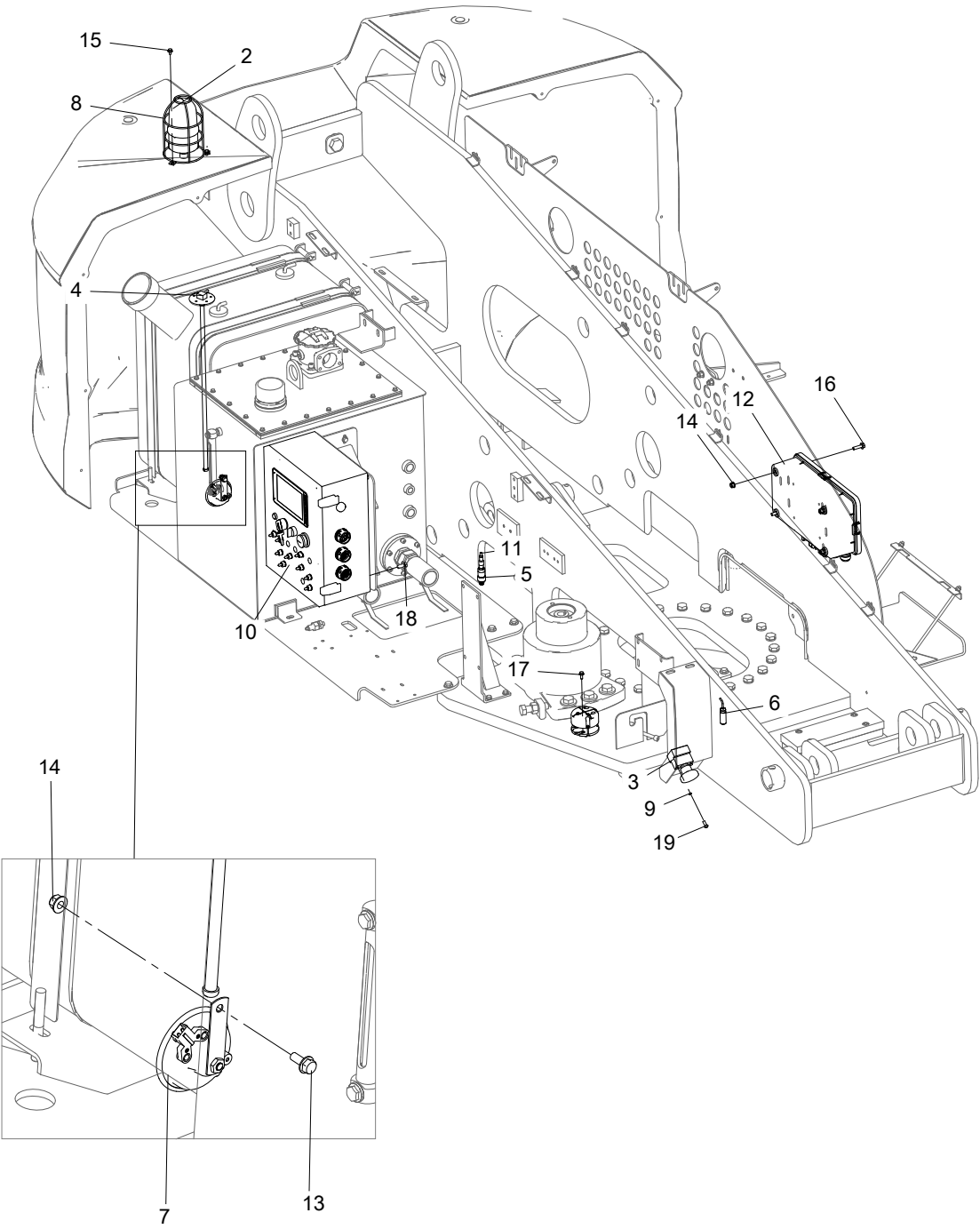


Electrical schematic of hydraulic generator(North America)



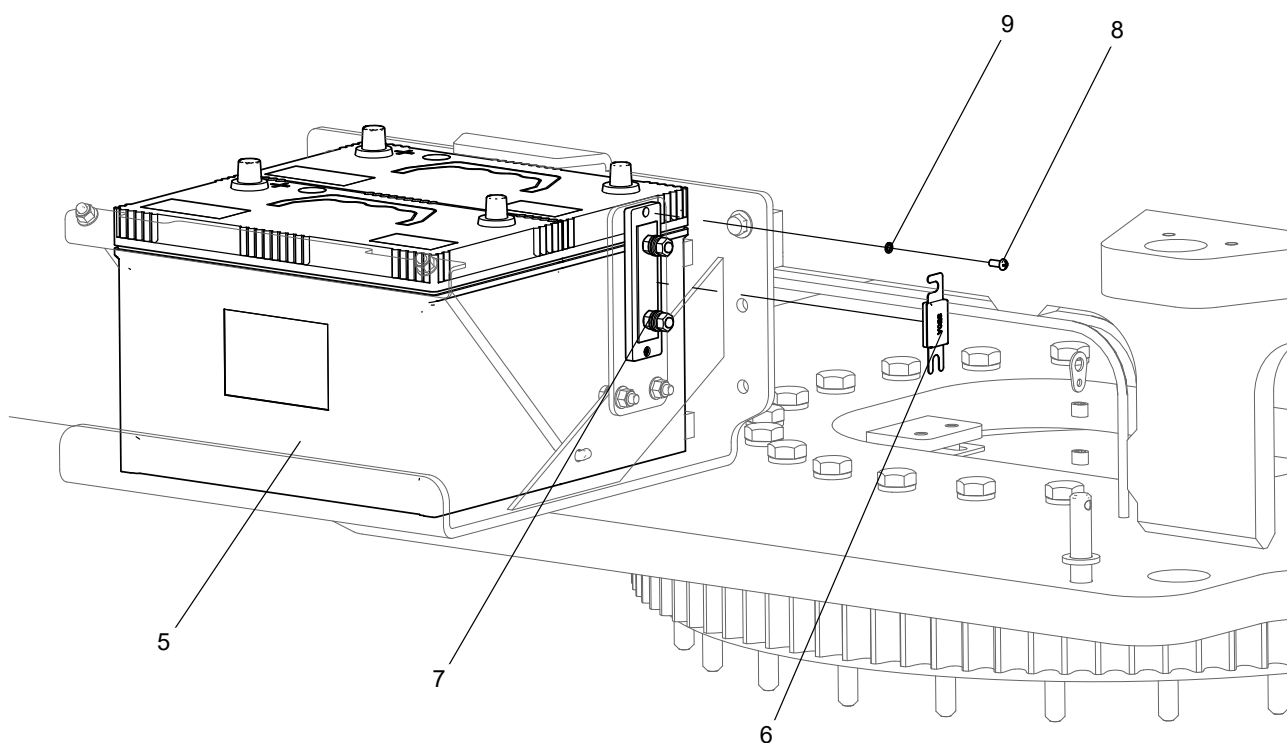
7.3 ELECTRICAL SYSTEM(DEUTZ D2.9L4/AUSTRALIA)

7.3.1 TURNTABLE ELECTRICAL COMPONENTS INSTALLATION



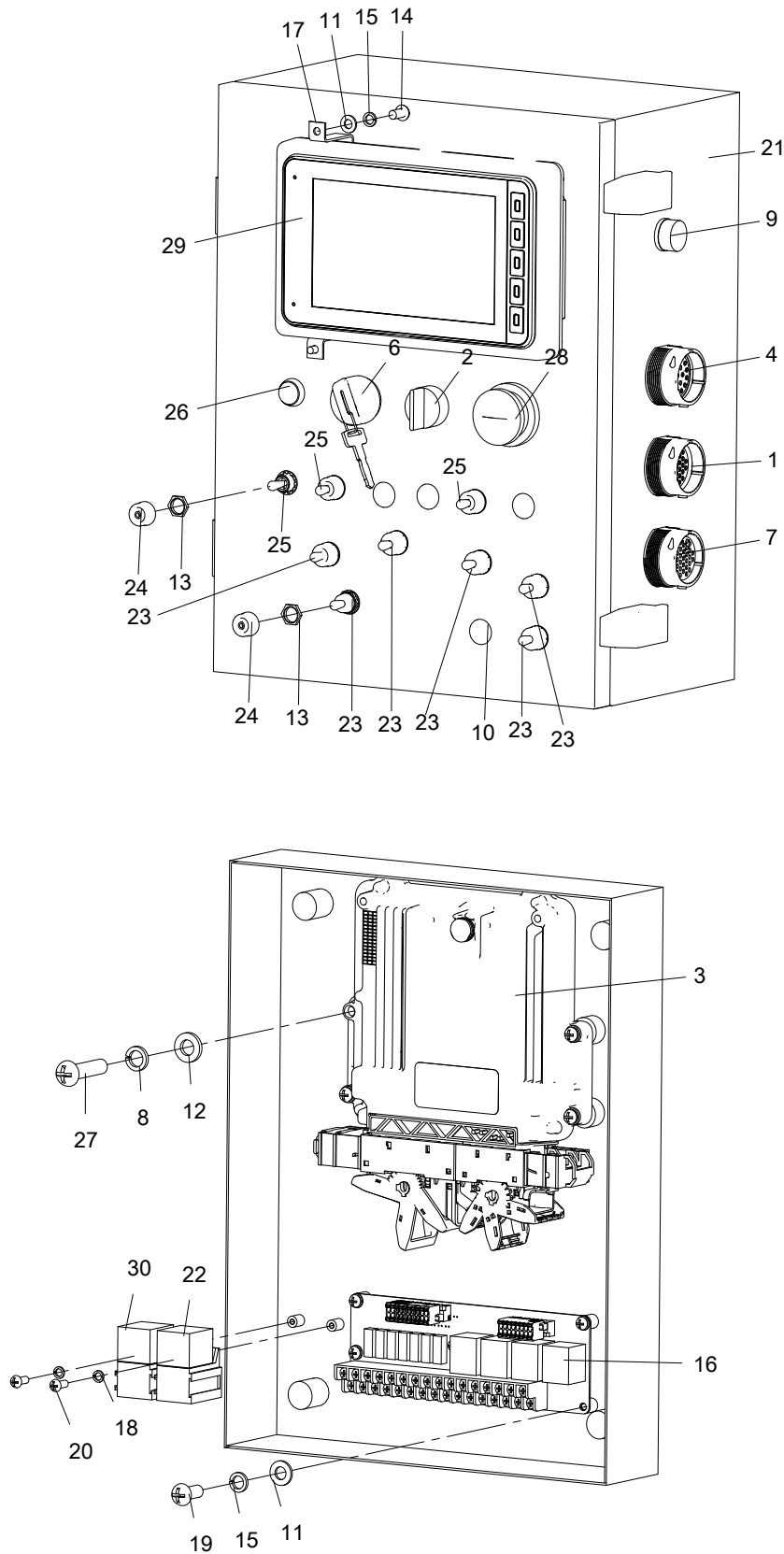
No.	Part No.	Qty.	Description
1	103008063058		Options, Level sensor installation
1-1	203150000039	1	Level sensor(1000167)
1-2	203060000111	1	Level sensor(1000499)
2	203050003017	1	Beacon light
3	203060000024	1	Power-off switch
4	203150000006	1	Sensor, liquid level
5	203150000055	1	Pressure sensor
6	203150003010	1	Proximity switch
7	203050000034	1	Horn
8	105021060024	1	Guard, beacon light
9	215040000003	2	Washer 5-A2-70 GB/T 93
10	105031060021	1	Ground controller assembly
11	203080003094	1	Plug, with cable
12	203100003012	1	Power switch box
13	215010000234	1	Bolt M8×20-8.8-ZnD GB/T 5789
14	215030000108	4	Nut M8-8-ZnD GB/T 6183
15	215010000229	3	Bolt M6×10-8.8-ZnD GB/T 5789
16	215010000236	4	Bolt M8×30-8.8-ZnD GB/T 5789
17	215010000230	3	Bolt M6×16-8.8-ZnD GB/T 5789
18	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789

7.3.2 BATTERIES INSTALLATION



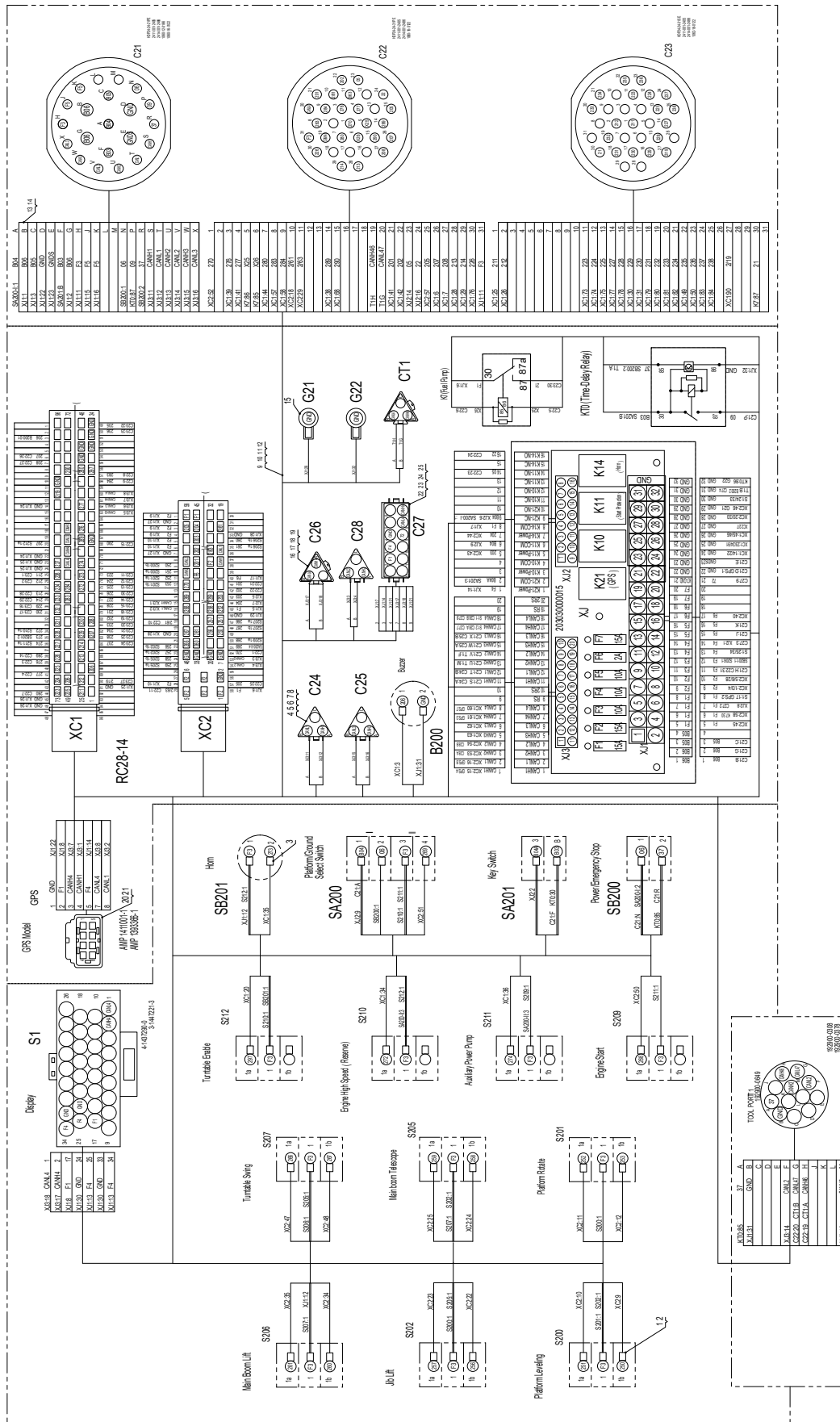
No.	Part No.	Qty.	Description
1	105064063087	1	Electrical power wiring layout(Not Shown)
2	203100000053	2	Jacket, flexible(Not Shown)
3	203100000051	2	Jacket, flexible(Not Shown)
4	203080000250	2	Battery terminal (Not Shown)
5	203100000061	2	Battery, maintenance-free
6	203070003009	1	Fuse
7	203070000056	1	Fuse holder
8	215020000110	2	Screw M5×12-A2-70 GB/T 818
9	215040000003	2	Washer 5-A2-70 GB/T 93

7.3.3 GROUND CONTROL BOX ASSEMBLY(PN.105031060021)



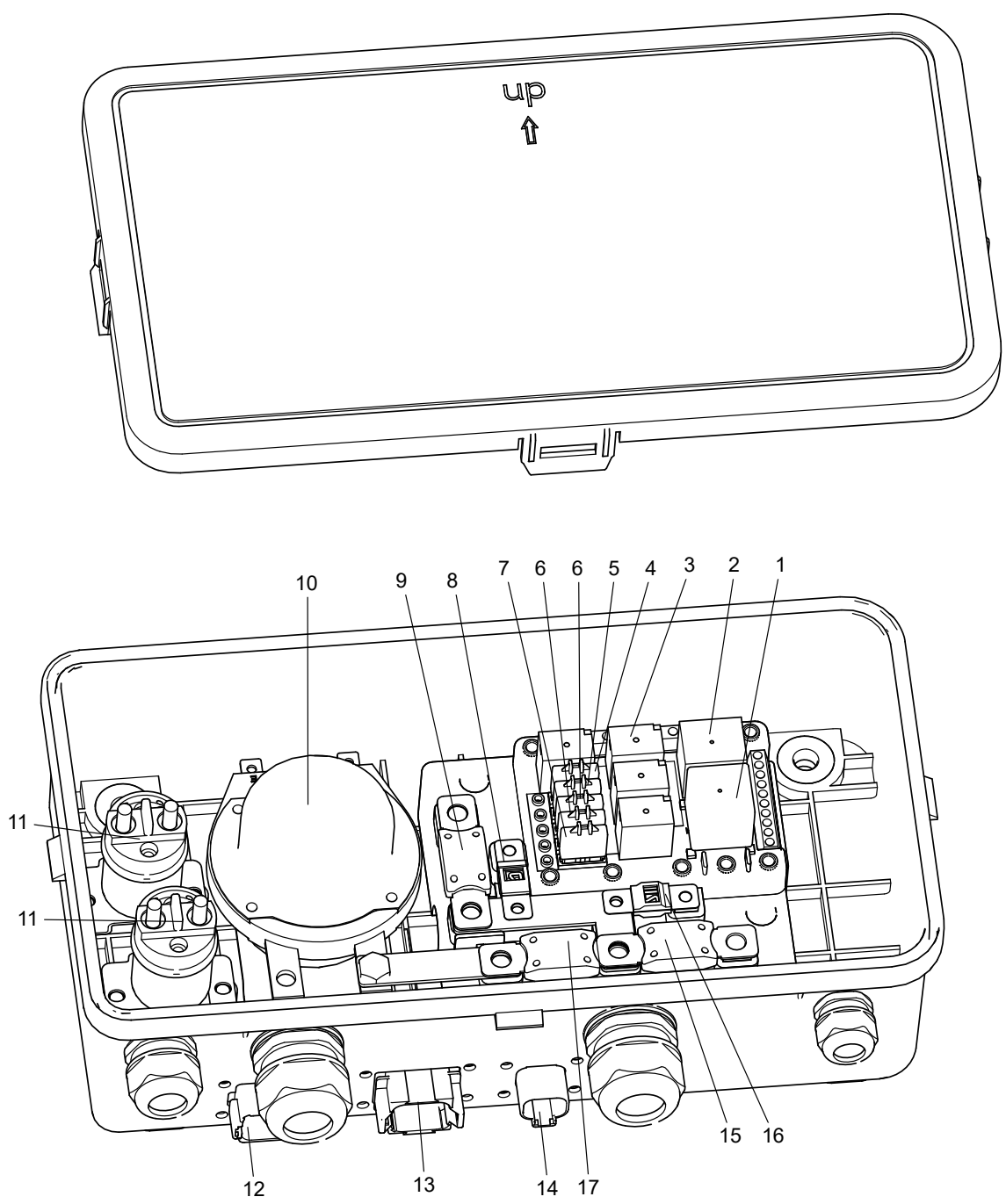
No.	Part No.	Qty.	Description
1	203080000523	1	Connector, 31P, male
2	203060000029	1	Select switch
3	203020000038	1	Controller
4	203080000518	1	Connector, 21-pin, male
5	105070063003	1	Membrane, ground controller(Not shown)
6	203060000114	1	Key switch
7	203080000516	1	Connector, 31P, female
8	215040000004	4	Washer 6-A2-70 GB/T 93
9	203050003021	1	Buzzer
10	105045060004	4	Plug, controller
11	215040000032	11	Washer 5-A2 GB/T 97.1
12	215040000033	4	Washer 6-A2 GB/T 97.1
13	203080000109	9	Nut
14	215020000109	6	Screw M5×10-A2-70 GB/T 818
15	215040000003	11	Washer 5-A2-70 GB/T 93
16	203030000015	1	Integrated board, relay
17	105001060106	3	Retaining plate, display screen
18	215040000002	2	Washer 4-A2-70 GB/T 93
19	215020000110	5	Screw M5×12-A2-70 GB/T 818
20	215020000104	2	Screw M4×10-A2-70 GB/T 818
21	113001063012	1	Ground controller
22	203040003005	1	Delay relay
23	203060000003	6	Switch, toggle
24	203080000101	9	Cap, waterproof
25	203060000021	3	Switch, toggle
26	203060000020	1	Button, yellow
27	215020000118	4	Screw M6×25-A2-70 GB/T 818
28	203060000142	1	Emergency stop switch
29	203200000004	1	Display screen
30	203040000003	1	Relay
31	105025063005	1	PC film, ground controller(Not shown)

7.3.4 GROUND CONTROL BOX HARNESS(PN.105031060017)



No.	Part No.	Qty.	Description
	105031060017	1	Ground control box wiring diagram
1	203080000036	36	Terminal
2	203080000022	1	Heat shrink tube
3	203080000023	4	Terminal, blade-hole type
4	203080000404	3	Sheath
5	203080000032	3	Lock
6	203080000041	10	Terminal, female
7	203080000068	5	Blind plug
8	203080000473	3	Cover, waterproof
9	203080000564	15	Cable, thin wall (white)
10	203080000562	5	Cable, thin wall (red)
11	203080000563	7	Cable, thin wall (black)
12	216020000020	30	Cable tie, nylon
13	203080000047	1	Cable
14	203080000196	1	Cable
15	203080000133	3	Terminal, blade-hole type
16	203080000405	2	Sheath
17	203080000046	2	Lock
18	203080000033	4	Terminal, male
19	203080000086	2	Sheath
20	203080000044	1	Sheath
21	203080000020	1	Lock
22	203080003532	1	Sheathed
23	203080003533	1	Lock
24	203060000085	8	Terminal, female
25	203080000085	4	Blind plug

7.3.5 POWER SWITCH BOX(PN.203100003012)

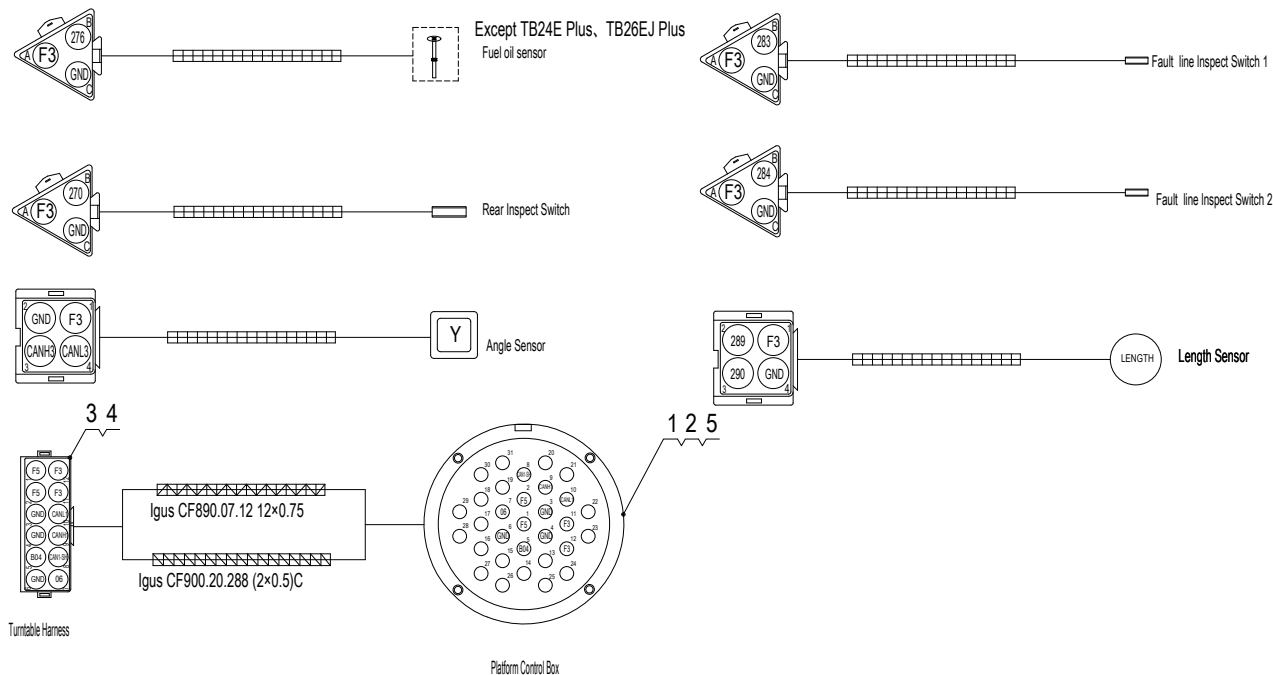


No.	Part No.	Qty.	Description
1	203040003012	1	Relay
2	203040003011	1	Relay
3	203040003010	4	Relay
4	203070003017	1	Fuse
5	203070003018	1	Fuse
6	203070003016	2	Fuse
7	203070003015	1	Fuse
8	203070003022	2	Fuse
9	203070003019	1	Fuse
10	203040003014	1	Relay
11	203040003013	2	Relay
12	203060000090	1	Connector, 12p, with flange
13	203060000088	1	Connector, 8p, with flange
14	203060003045	1	Connector, 4p,with flange
15	203070003021	1	Fuse
16	203070003020	1	Fuse
17	203990003008	1	Fitting, waterproof
18	203990003009	2	Fitting, waterproof
19	203990003010	1	Connector, waterproof
20	203990003011	1	Cover plate
21	203990003012	1	Pedestal assembly

No.	Part No.	Qty.	Description
	105064063054	1	Turntable Harness
1	203080000515	1	Connector, 31P, male
2	203060000096	3	End clip, 180 deg.
3	203080000033	21	Terminal, male
4	203080000068	23	Blind plug
5	203080000520	1	Connector, 31P, female
6	203080000041	145	Terminal, female
7	203080000517	1	Connector, 21-pin, female
8	203060000097	4	Terminal, #12, female
9	203080000410	22	Sheath
10	203080000016	22	Lock
11	203080000437	22	End attachments, 2-pin, female
12	203080000448	22	Rubber, 2-pin
13	203080000404	7	Sheath
14	203080000032	7	Lock
15	203080000508	7	End clip
16	203080000044	3	Sheath
17	203080000020	3	Lock
18	203080000445	3	End attachments, 4-pin, female
19	203080000446	3	Rubber, 4-pin
20	203080000427	1	Sheath
21	203080000428	2	Pin, female
22	203080000429	1	Cap, waterproof
23	203080000414	2	Sheath
24	203080000159	2	Lock
25	203080000100	1	Sheath
26	203080000112	1	Lock
27	203080000134	2	Terminal, blade-hole type
28	203080000124	1	Terminal, blade-hole type
29	203080000191	4	Cable
30	203080000161	3	Cable
31	203080000417	1	Nylon hose, closed-end
32	203080000419	1	Nylon hose, closed-end
33	203080000564	150	Cable, thin wall (white)
34	203080000563	60	Cable, thin wall (black)
35	203080000562	30	Cable, thin wall (red)
36	203080000424	7	Nylon hose, closed-end

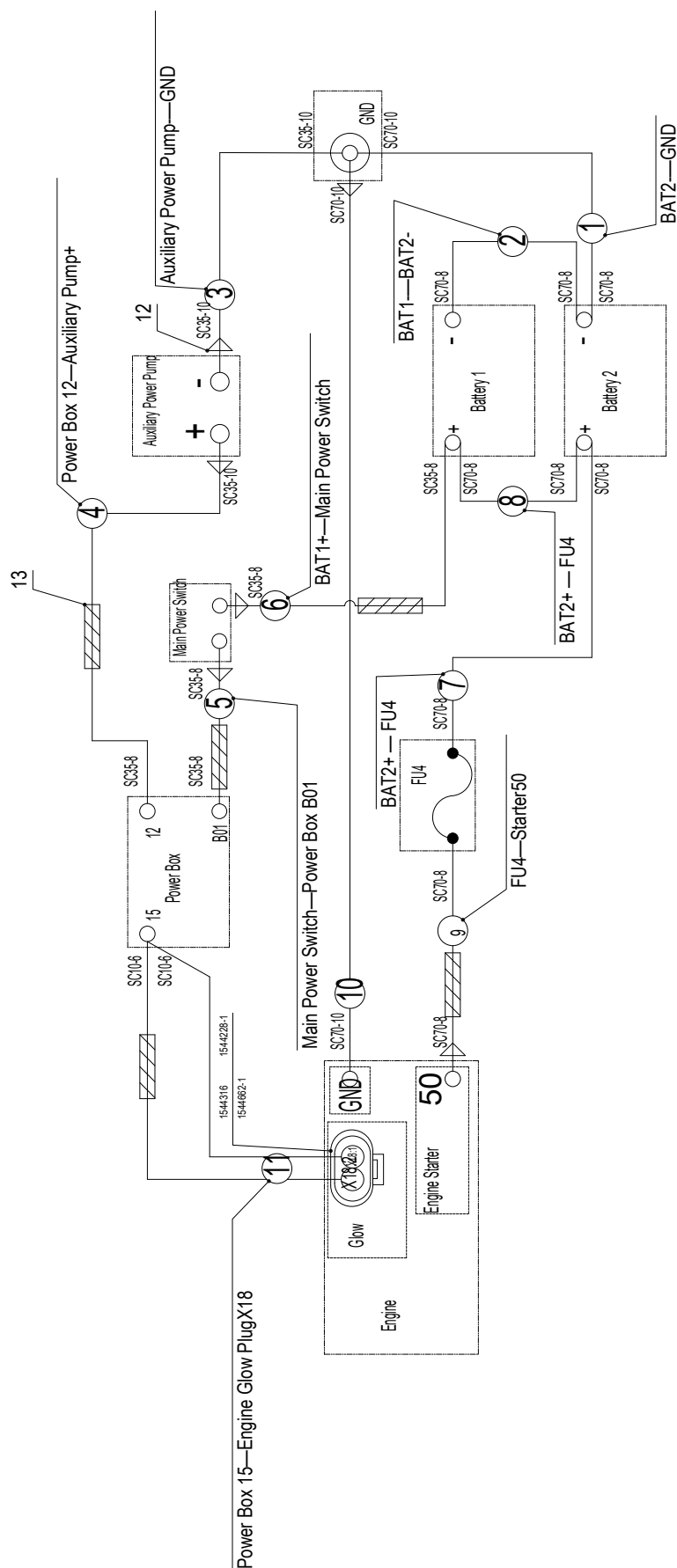
No.	Part No.	Qty.	Description
37	203080000422	5	Nylon hose, closed-end
38	203080000037	2	Corrugated pipe
39	203080000474	2	Cover, waterproof
40	203080000492	1	Cover, waterproof
41	203080000405	1	Sheath
42	203080000046	1	Lock
43	203080000455	1	End attachments, 3-pin, male
44	203080000086	1	Sheath
45	203080000133	2	Terminal, blade-hole type
46	203080000130	1	Terminal
47	203080000129	1	Jacket, flexible

7.3.7 TURNTABLE SENSORS HARNESS (PN.105031060019)



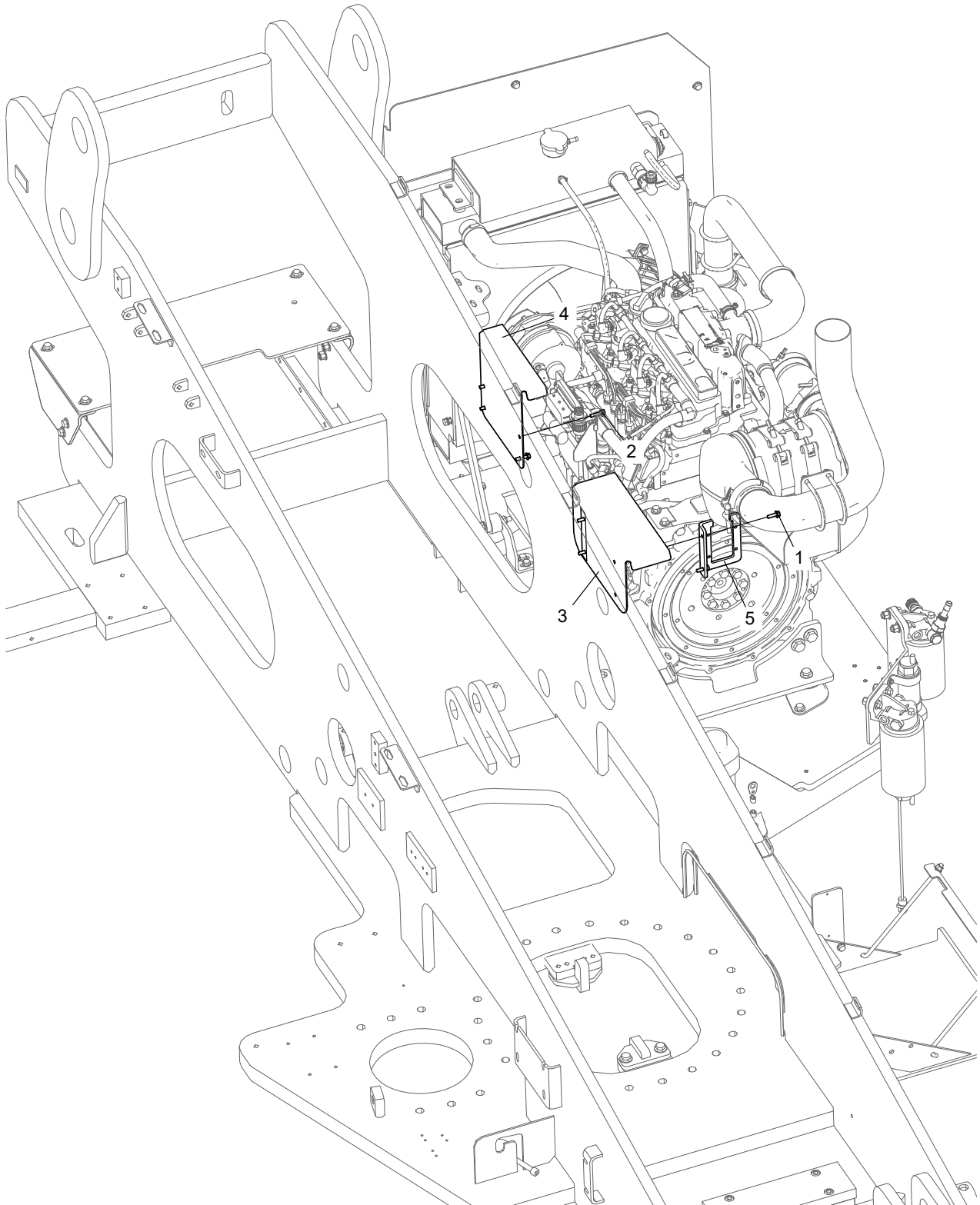
No.	Part No.	Qty.	Description
	105031060019	1	Turntable Sensors Harness
1	203080000520	1	Connector, 31P, female
2	203060000096	1	End clip, 180 deg.
3	203080000403	1	Sheath
4	203080000157	1	Lock
5	203080000068	19	Blind plug

7.3.8 ELECTRICAL POWER WIRING LAYOUT(PN.105064063087)



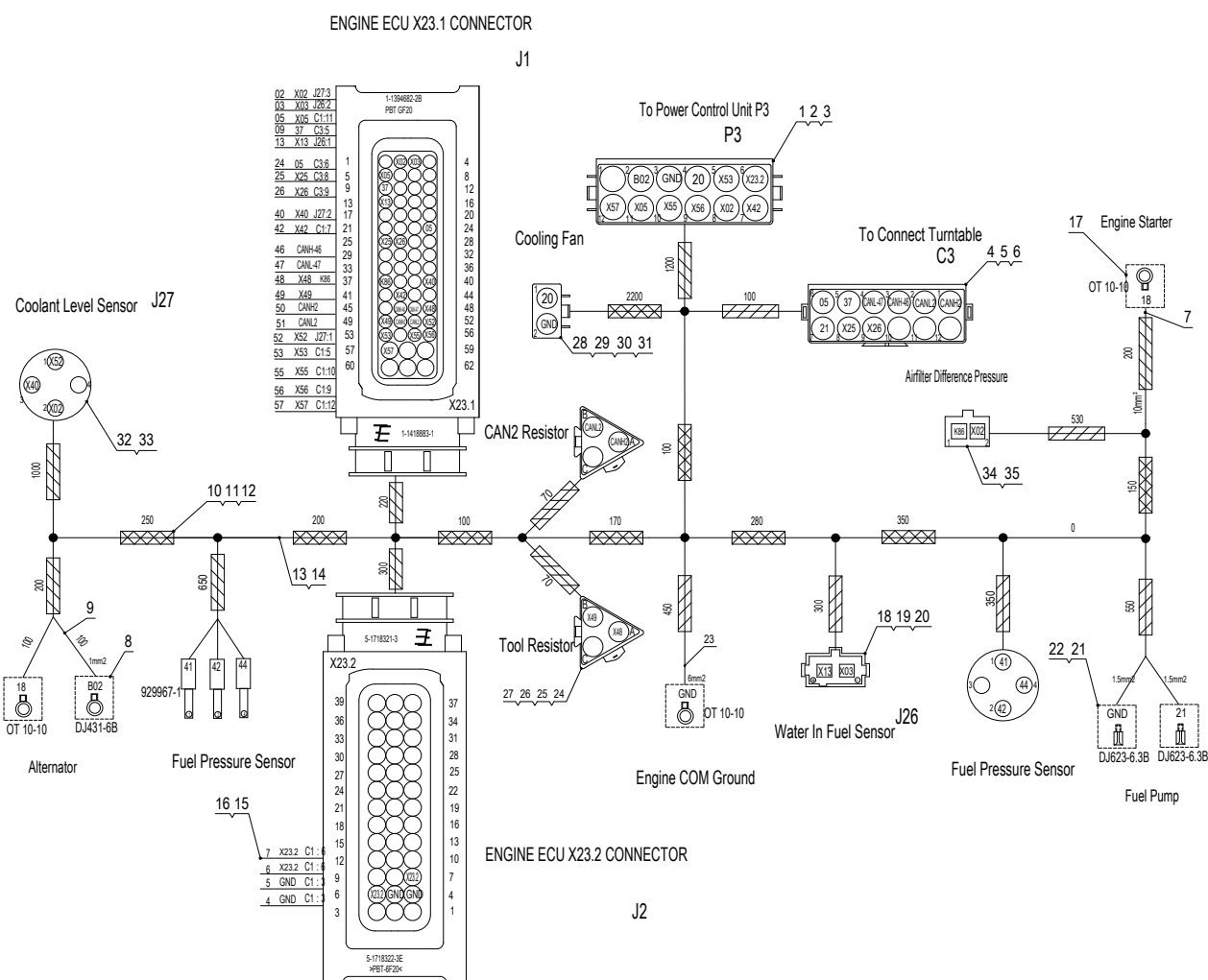
No.	Part No.	Qty.	Description
	105064063087	1	Electrical power wiring layout
1	203230000103	1	Power harness
2	203230000364	1	Power harness
3	203230000504	1	Power harness
4	203230000527	1	Power harness
5	203230000568	1	Power cable kit
6	203230000564	1	Power cable kit
7	203230000363	1	Power harness
8	203230000404	1	Power harness
9	203230000264	1	Power harness
10	203230000501	1	Power harness
11	203230000874	1	Power harness
12	203080000004	6	Connector, PVC
13	203080000422	8	Nylon hose, closed-end

7.3.9 ENGINE ELECTRICAL COMPONENTS INSTALLATION



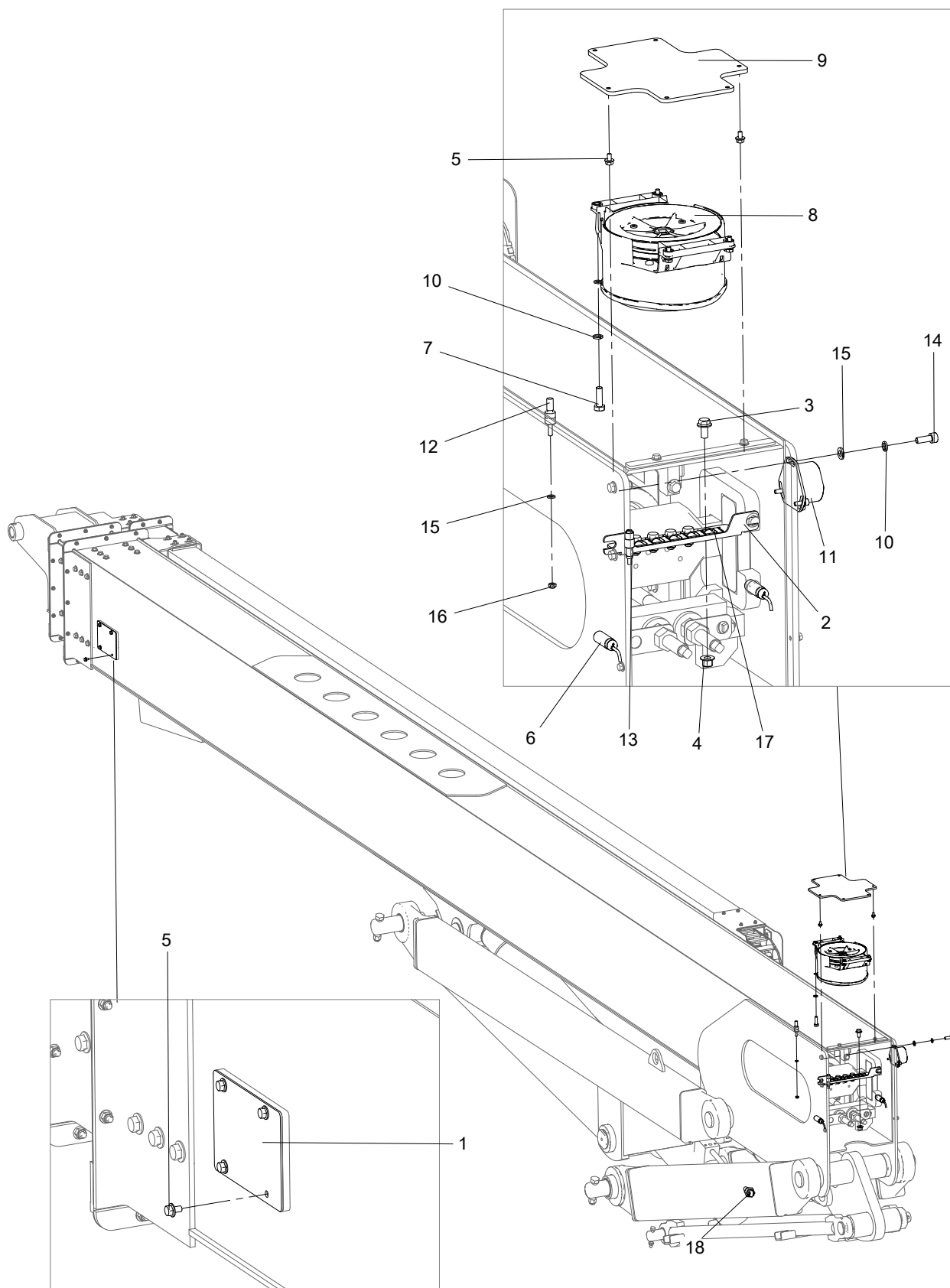
No.	Part No.	Qty.	Description
1	215010000231	4	Bolt M6×20-8.8-ZnD GB/T 5789
2	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
3	105054023053	1	Rain cover
4	105054023052	1	Rain cover
5	105054023051	2	Plate, bending
6	105068063080	1	Engine Harness(Not shown)

7.3.10 ENGINE HARNESS(PN.105068063080)



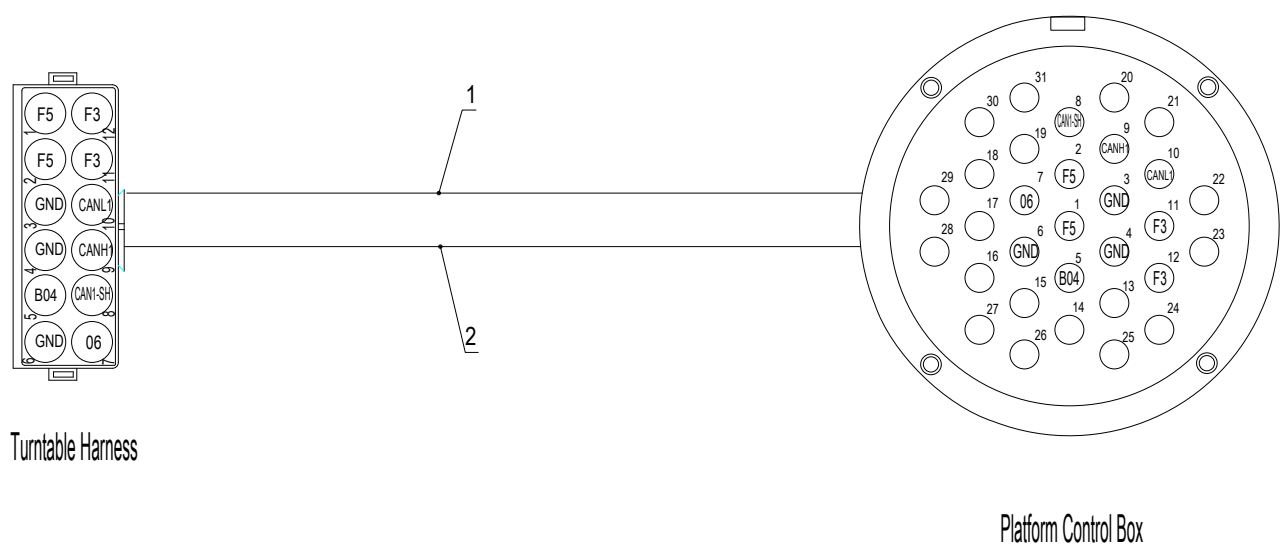
No.	Part No.	Qty.	Description
	105068063080	1	Engine Harness
1	203080000414	2	Sheath
2	203080000159	2	Lock
3	203080000041	19	Terminal, female
4	203080000403	1	Sheath
5	203080000157	1	Lock
6	203080000033	13	Terminal, male
7	203080000367	1.6	Cable
8	203080000133	1	Terminal, blade-hole type
9	203080000030	1	Heat shrink tube
10	203080000037	2	Corrugated pipe
11	203080000006	4	Corrugated pipe
12	203080000463	4	Nylon hose, closed-end
13	203080000375	30	Cable
14	203080000370	4	Cable
15	203080000369	6	Cable
16	203080000582	3	Cable
17	203080003393	3	Terminal, round top insulated
18	203080000427	1	Sheath
19	203080000428	2	Pin, female
20	203080000429	1	Cap, waterproof
21	203080000129	2	Jacket, flexible
22	203080000130	2	Terminal
23	203080000394	1	Cable
24	203080000405	2	Sheath
25	203080000046	2	Lock
26	203080000455	2	End attachments, 3-pin, male
27	203080000086	2	Sheath
28	203080000410	1	Sheath
29	203080000016	1	Lock
30	203080000437	1	End attachments, 2-pin, female
31	203080000448	1	Rubber, 2-pin
32	203080003636	2	Sheath
33	203080003373	6	Terminal
34	203080003637	1	Sheath
35	203080003638	2	Terminal

7.3.11 BOOM ELECTRICAL COMPONENTS INSTALLATION



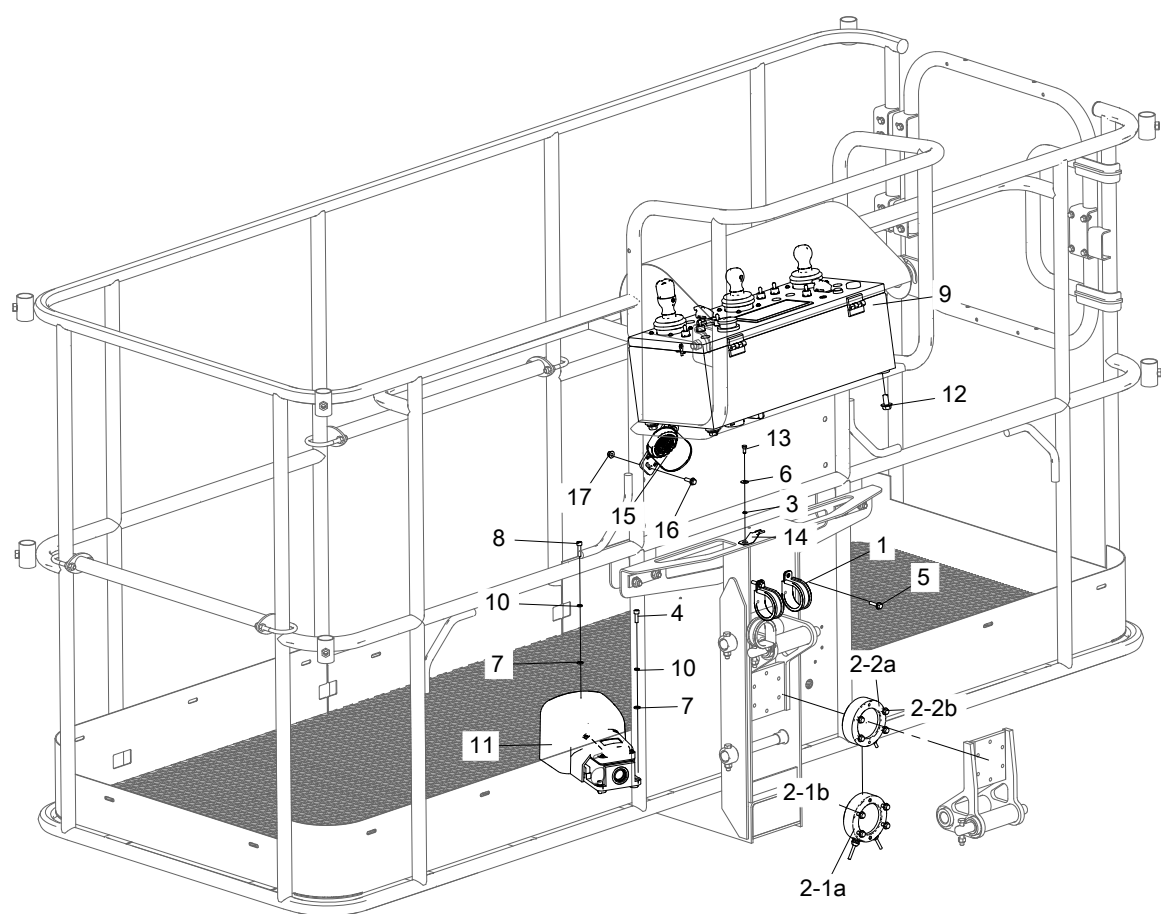
No.	Part No.	Qty.	Description
1	105050013000	1	Cover
2	105049013002	1	Bracket
3	215010000237	5	Bolt M10×20-8.8-ZnD GB/T 5789
4	215030000109	5	Nut M10-8-ZnD GB/T 6183
5	215010000229	6	Bolt M6×10-8.8-ZnD GB/T 5789
6	203150003010	2	Proximity switch
7	215010000051	4	Bolt M6×20-A2-70 GB/T 5783
8	203150000051	1	Length sensor
9	105001010254	1	Mount, length sensor
10	215040000004	7	Washer 6-A2-70 GB/T 93
11	105050063060		Angle Sensor
11-1	203150000058	1	Sensor, CAN bus(1000052)
11-2	203150003062	1	Dual angle bus sensor(1000604)
12	105001060075	1	Thread rod, for length sensor
13	203080003104	1	Plug, with cable
14	215020000011	3	Screw M6×16-A2-70 GB/T 70.1
15	215040000033	8	Washer 6-A2 GB/T 97.1
16	215030000025	1	Nut M6-8-A2-70 GB/T 889.1
17	203080000525	5	Fixture
18	203150000038	1	Temp sensor
19	203230000929	1	Towline Cable(Not shown)
20	203230000966	1	Towline Cable(Not shown)

7.3.12 CABLE TRACK DIAGRAM(PN.114002063018)



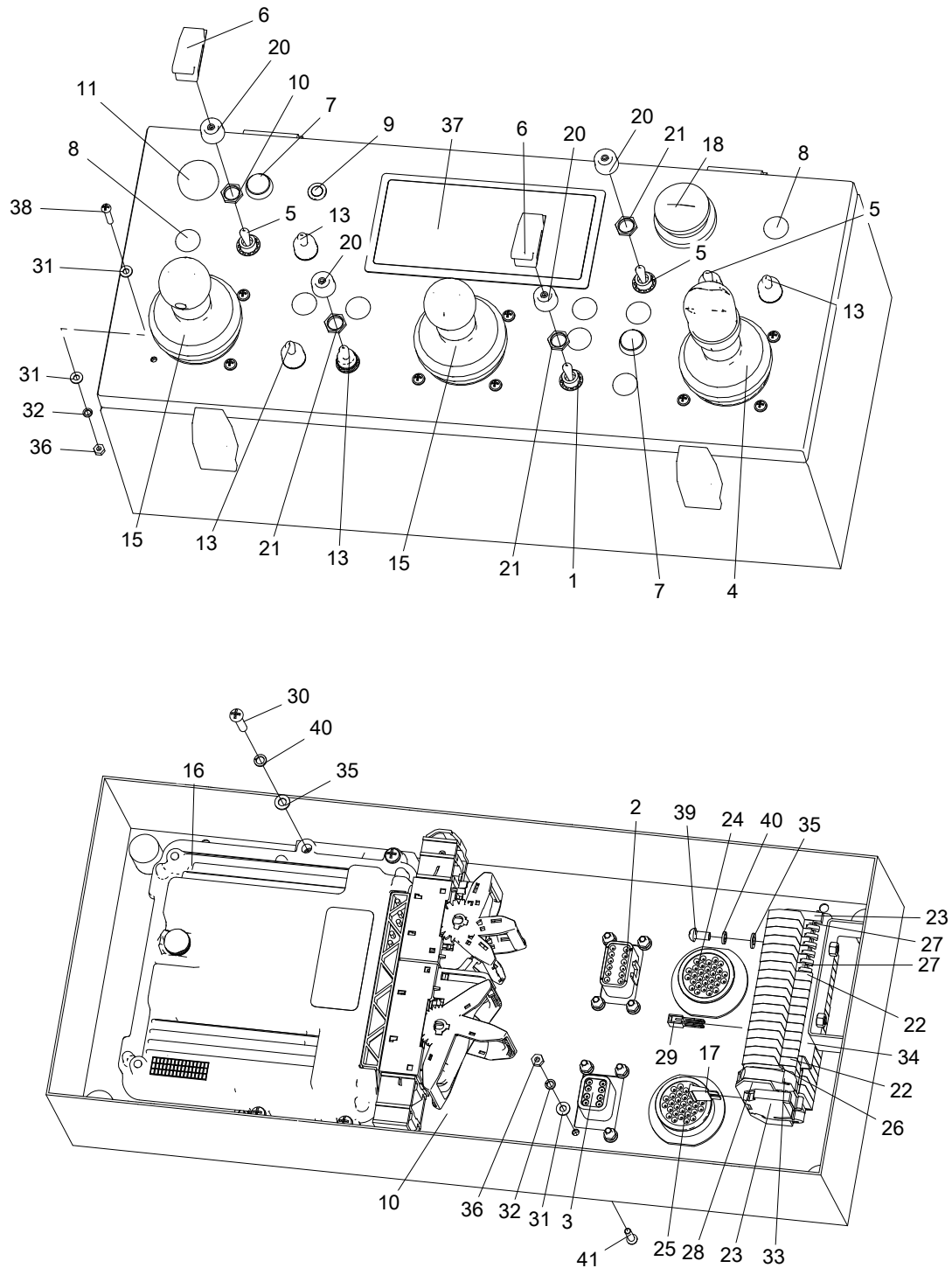
No.	Part No.	Qty.	Description
	114002063018	1	Cable track diagram
1	203080003310	1	Cable, cable track
2	203080003311	1	Cable, CAN bus, cable track

7.3.13 PLATFORM ELECTRICAL COMPONENTS INSTALLATION



No.	Part No.	Qty.	Description
1	216020000025	2	Retaining ring, SSG
2	103006060034		Load sensor options
2-1	103006060029	1	Load sensor
2-1a	203150000070	1	Load sensor
2-1b	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
2-2	103006060026	1	Load sensor, dual-channel
2-2a	203150000069	1	Load sensor
2-2b	215010000232	4	Bolt M6×25-8.8-ZnD GB/T 5789
3	215040000003	1	Washer 5-A2-70 GB/T 93
4	215020000012	2	Screw M6×20-A2-70 GB/T 70.1
5	215010000232	2	Bolt M6×25-8.8-ZnD GB/T 5789
6	215040000132	1	Washer 5-200HV-A2 GT/B 96.1
7	215040000033	3	Washer 6-A2 GB/T 97.1
8	215020000013	1	Screw M6×25-A2-70 GB/T 70.1
9	105050063016	1	Platform controller assembly(See details)
10	215040000004	3	Washer 6-A2-70 GB/T 93
11	203060000009	1	Footswitch
12	215010000237	4	Bolt M10×20-8.8-ZnD GB/T 5789
13	215010000041	1	Bolt M5×12-A2-70 GB/T 5783
14	203080000525	1	Fixture
15	203050003040	1	Voice Horn
16	215010000231	2	Bolt M6×20-8.8-ZnD GB/T 5789
17	215030000107	2	Nut M6-8-ZnD GB/T 6183

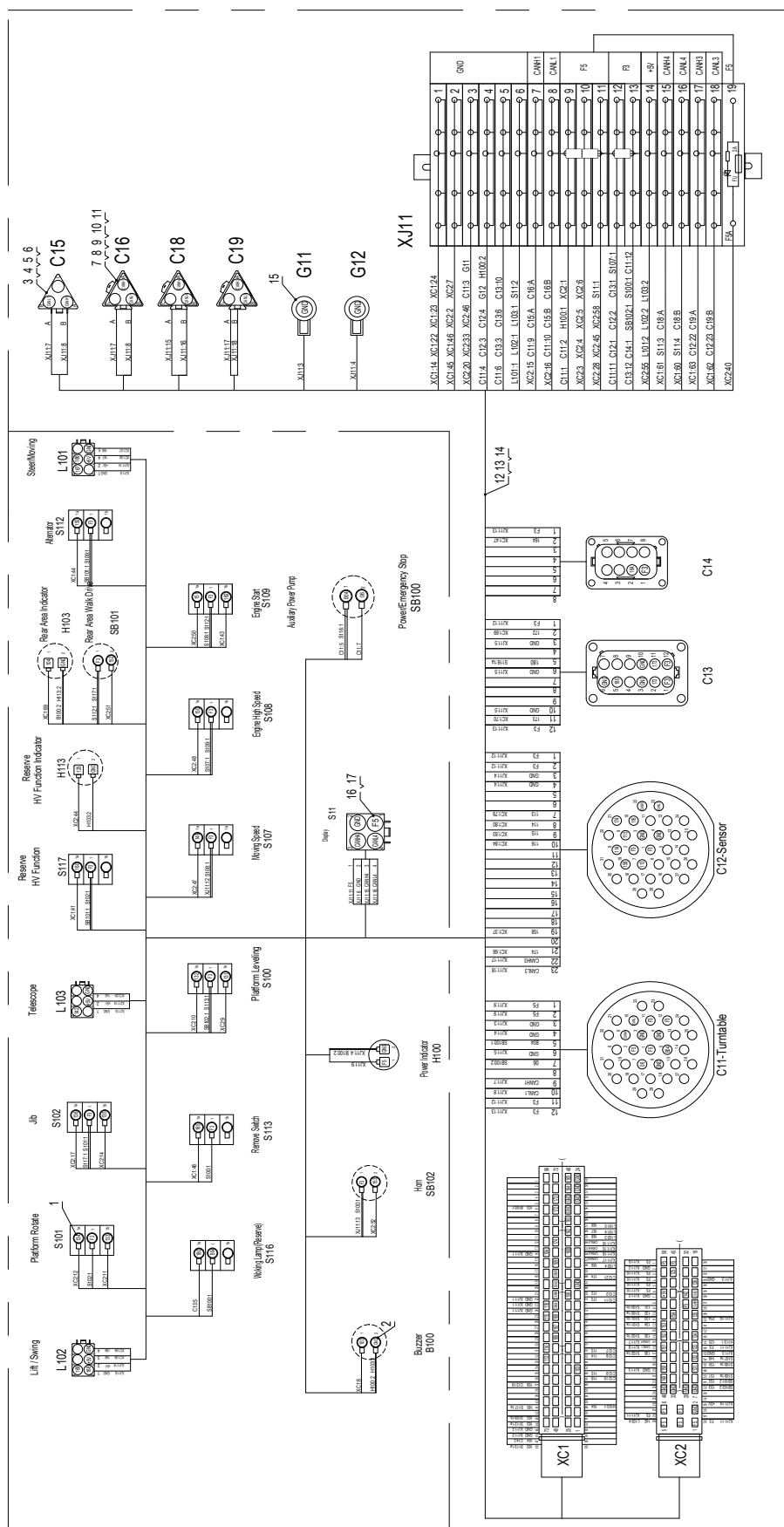
7.3.14 PLATFORM CONTROL BOX ASSEMBLY(PN.105050063068)



No.	Part No.	Qty.	Description
1	2030600000035	1	Switch, toggle
2	2030600000090	1	Connector, 12p, with flange
3	2030600000088	1	Connector, 8p, with flange
4	203060003081	1	Joystick
5	2030600000021	3	Switch, toggle
6	2030600000150	2	Guard, toggle switch
7	2030600000020	2	Button, yellow
8	105045060004	8	Plug, controller
9	203050003014	1	Indicator light
10	105050063019	1	Platform controller
11	203050003021	1	Buzzer
12	105050063021	1	PC film, platform controller
13	2030600000003	4	Switch, toggle
14	105050063020	1	Platform Control Box Assembly
15	203060003084	2	Joystick
16	2030200000038	1	Controller
17	2030700000053	1	Fuse
18	2030600000142	1	Emergency stop switch
19	105050063067	1	Platform control box wiring diagram
20	2030800000101	8	Cap, waterproof
21	2030800000109	8	Nut
22	203080003051	12	Terminal
23	203080003053	2	Terminal block end plate
24	2030800000516	1	Connector, 31P, female
25	2030800000523	1	Connector, 31P, male
26	203080003052	1	End plate
27	203080003054	6	Terminal, GND
28	203080003059	1	End plate
29	203080003058	3	Jumper
30	2150200000113	4	Screw M5×25-A2-70 GB/T 818
31	2150400000031	32	Washer 4-A2 GB/T 97.1
32	2150400000002	20	Washer 4-A2-70 GB/T 93
33	203080003057	1	Terminal
34	2039900000001	1	Guiderail
35	2150400000032	6	Washer 5-A2 GB/T 97.1
36	2150300000002	20	Nut M4-8-A2-70 GB/T 6170
37	203200003002	1	Gauge

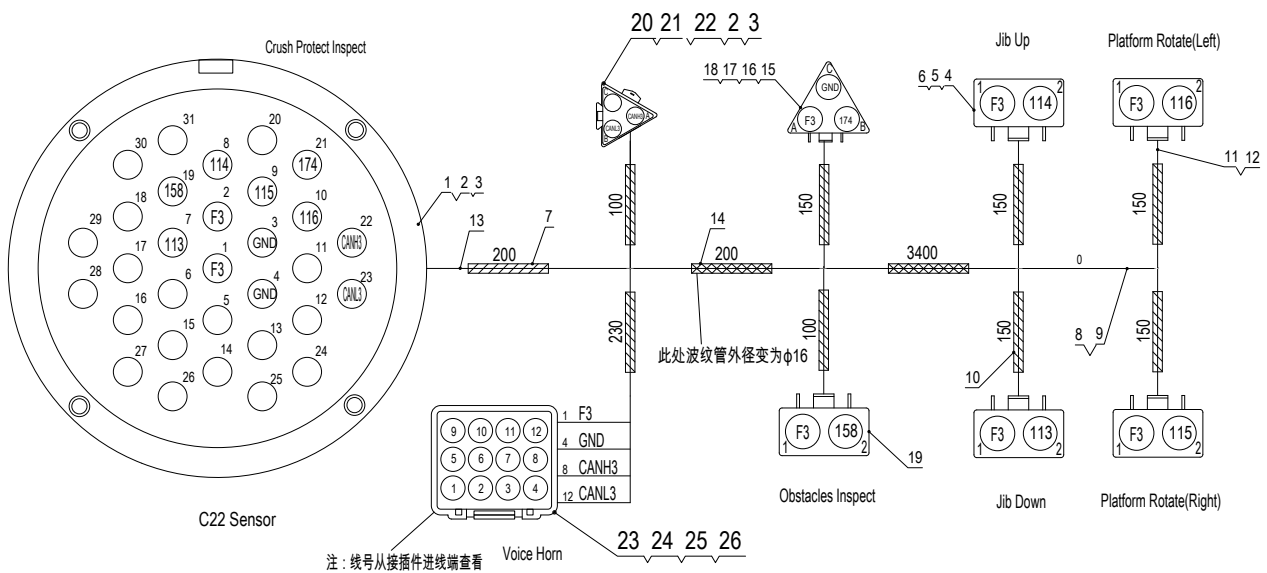
No.	Part No.	Qty.	Description
38	215020000107	12	Screw M4×20-A2-70 GB/T 818
39	215020000109	2	Screw M5×10-A2-70 GB/T 818
40	215040000003	6	Washer 5-A2-70 GB/T 93
41	215020000106	8	Screw M4×16-A2-70 GB/T 818

7.3.15 PLATFORM CONTROL BOX HARNESS(PN.105050063067)



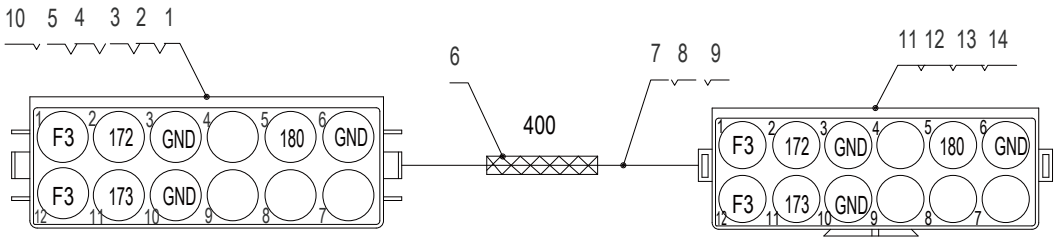
No.	Part No.	Qty.	Description
	105050063067	1	Platform control box wiring diagram
1	203080000023	27	Terminal, blade-hole type
2	203080000036	16	Terminal
3	203080000404	1	Sheath
4	203080000032	1	Lock
5	203080000041	6	Terminal, female
6	203080000473	1	Cover, waterproof
7	203080000405	3	Sheath
8	203080000046	3	Lock
9	203080000033	6	Terminal, male
10	203080000068	4	Blind plug
11	203080000086	3	Sheath
12	203080000562	5	Cable, thin wall (red)
13	203080000563	7	Cable, thin wall (black)
14	203080000564	15	Cable, thin wall (white)
15	203080000133	2	Terminal, blade-hole type
16	203080000044	1	Sheath
17	203080000020	1	Lock

7.3.16 PLATFORM HARNESS(PN.105050063001)



No.	Part No.	Qty.	Description
	105050063001	1	Wiring harness, platform
1	203080000515	1	Connector, 31P, male
2	203080000068	1	Blind plug
3	203080000033	1	Terminal, male
4	203080000410	1	Sheath
5	203080000016	1	Lock
6	203080000041	1	Terminal, female
7	203080000419	1	Nylon hose, closed-end
8	203080000564	1	Cable, thin wall (white)
9	203080000562	1	Cable, thin wall (red)
10	203080000463	1	Nylon hose, closed-end
11	203080000437	1	End attachments, 2-pin, female
12	203080000448	1	Rubber, 2-pin
13	203060000096	1	End clip, 180 deg.
14	203080000037	1	Corrugated pipe
15	203080000404	1	Sheath
16	203080000032	1	Lock
17	203080000508	1	End clip
18	203080000473	1	Cover, waterproof
19	203080000474	1	Cover, waterproof
20	203080000405	1	Sheath
21	203080000046	1	Lock
22	203080000086	1	Sheath
23	203080003584	1	Sheath
24	203080003585	1	Terminal
25	203080003586	4	Seal Ring
26	203080003587	12	Blind Plugging

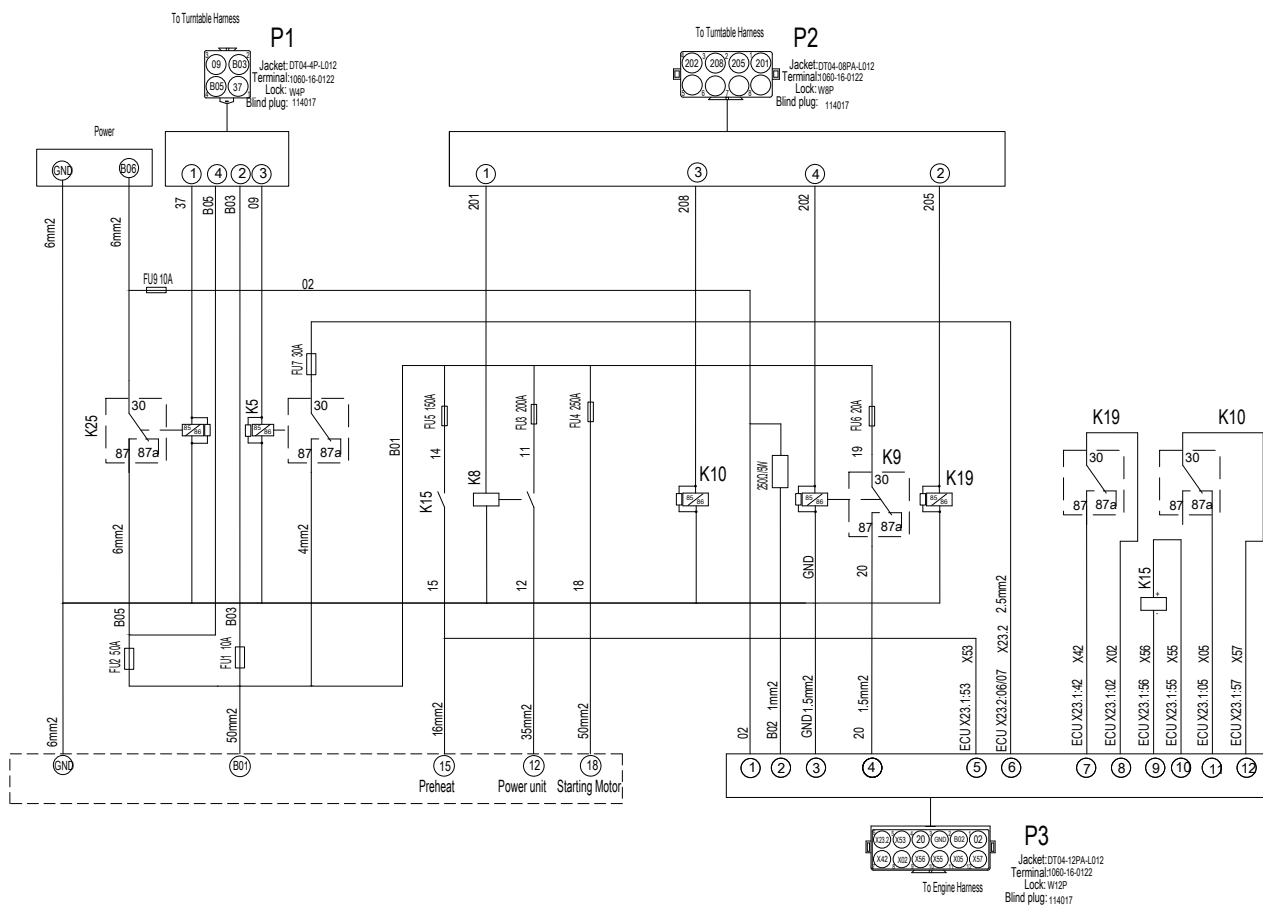
7.3.17 PLATFORM HARNESS (PN.103006063009)



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

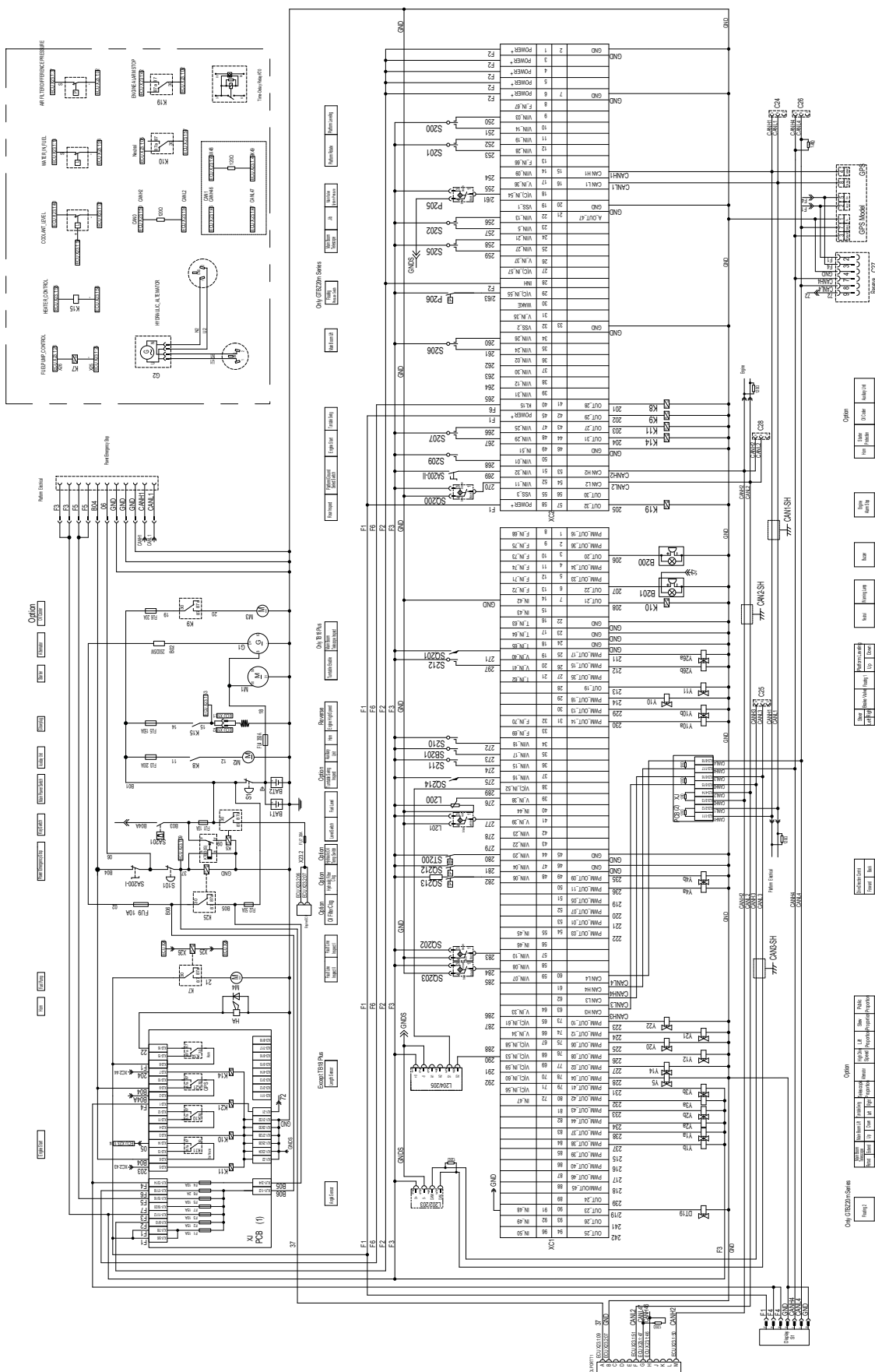


7.3.19 SCHEMATIC OF POWER SWITCH BOX(PN.105024063021)

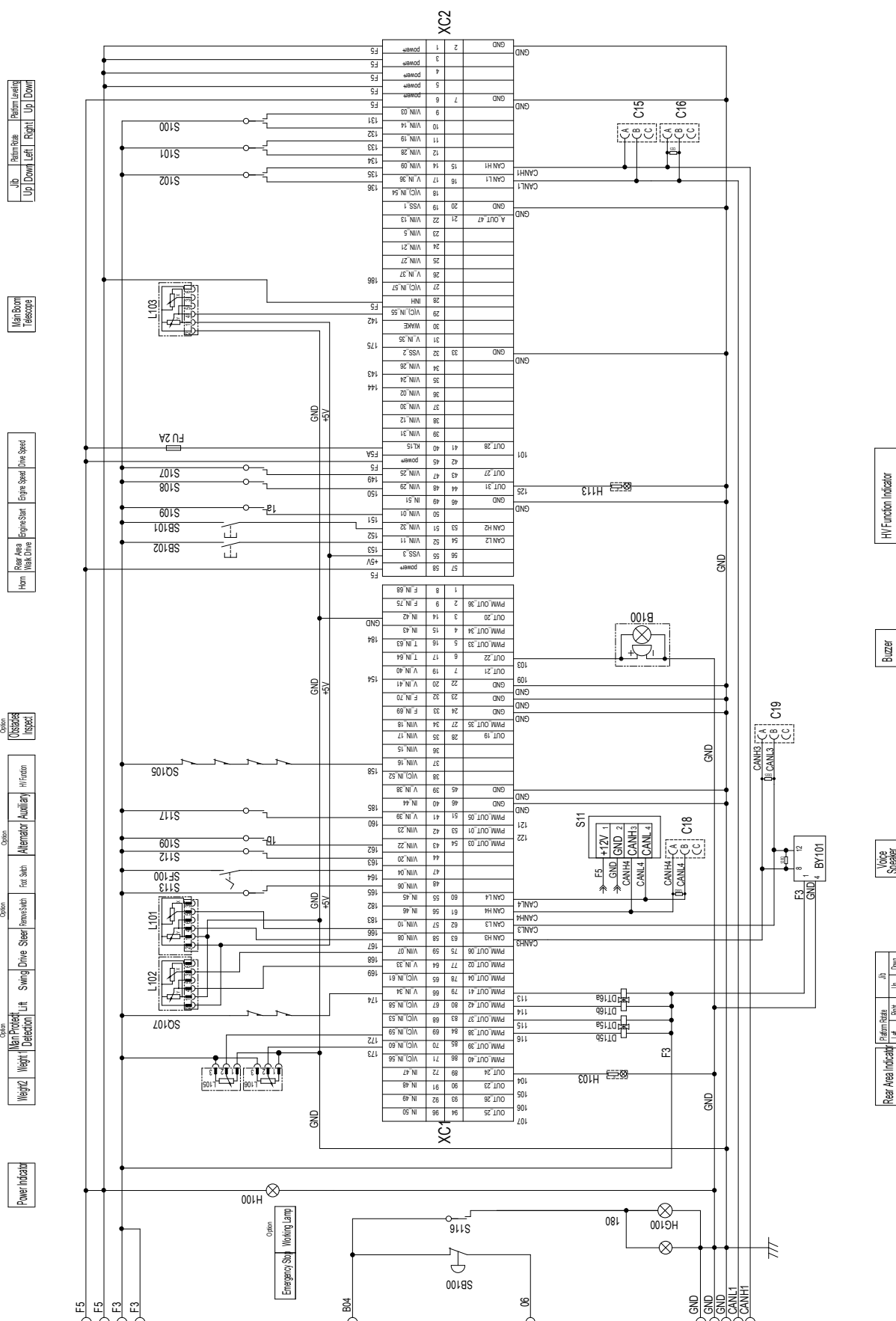


7.3.20 ELECTRICAL SCHEMATIC

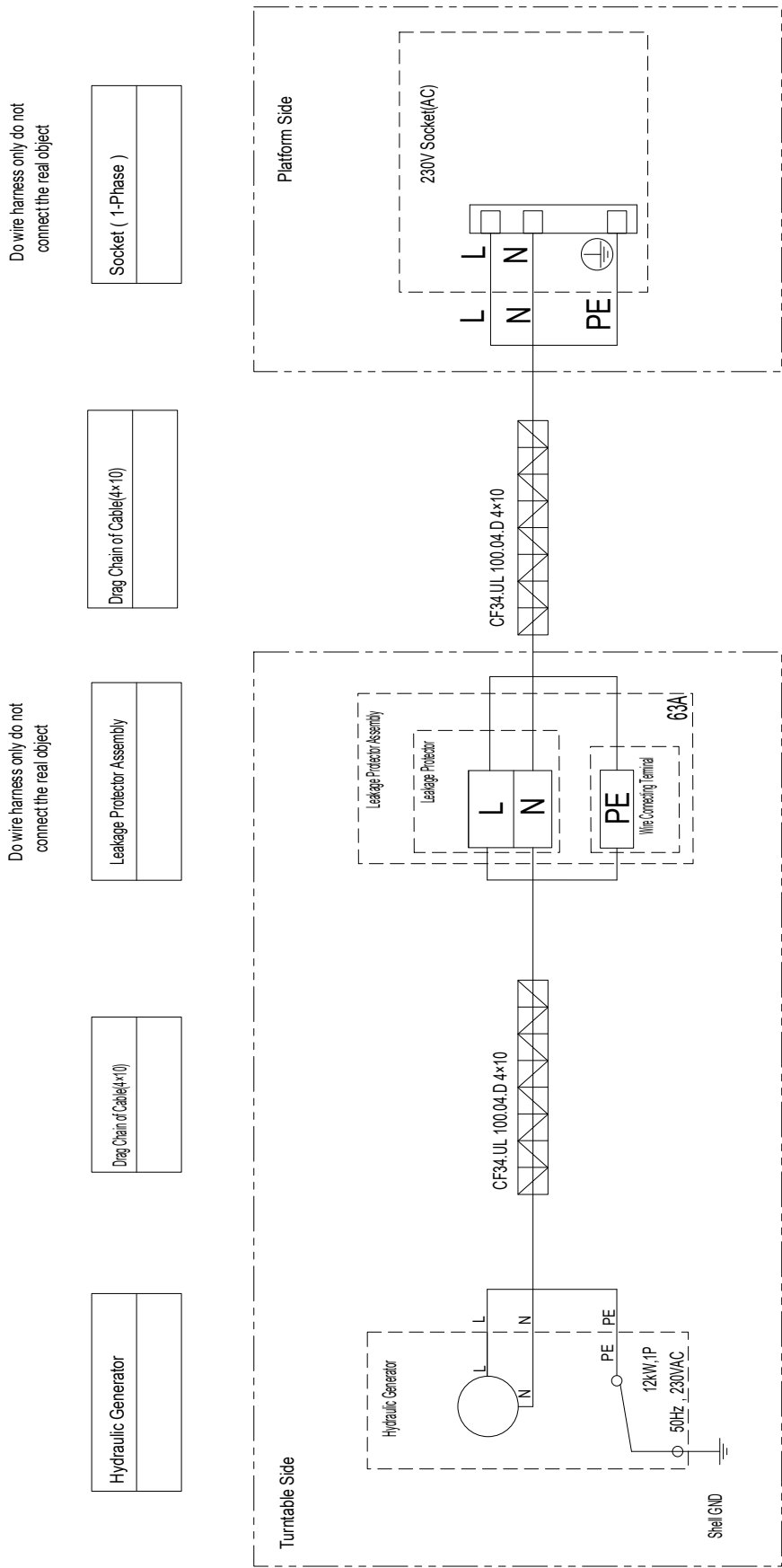
Electrical schematic of turntable, hydraulic generator(Deutz)



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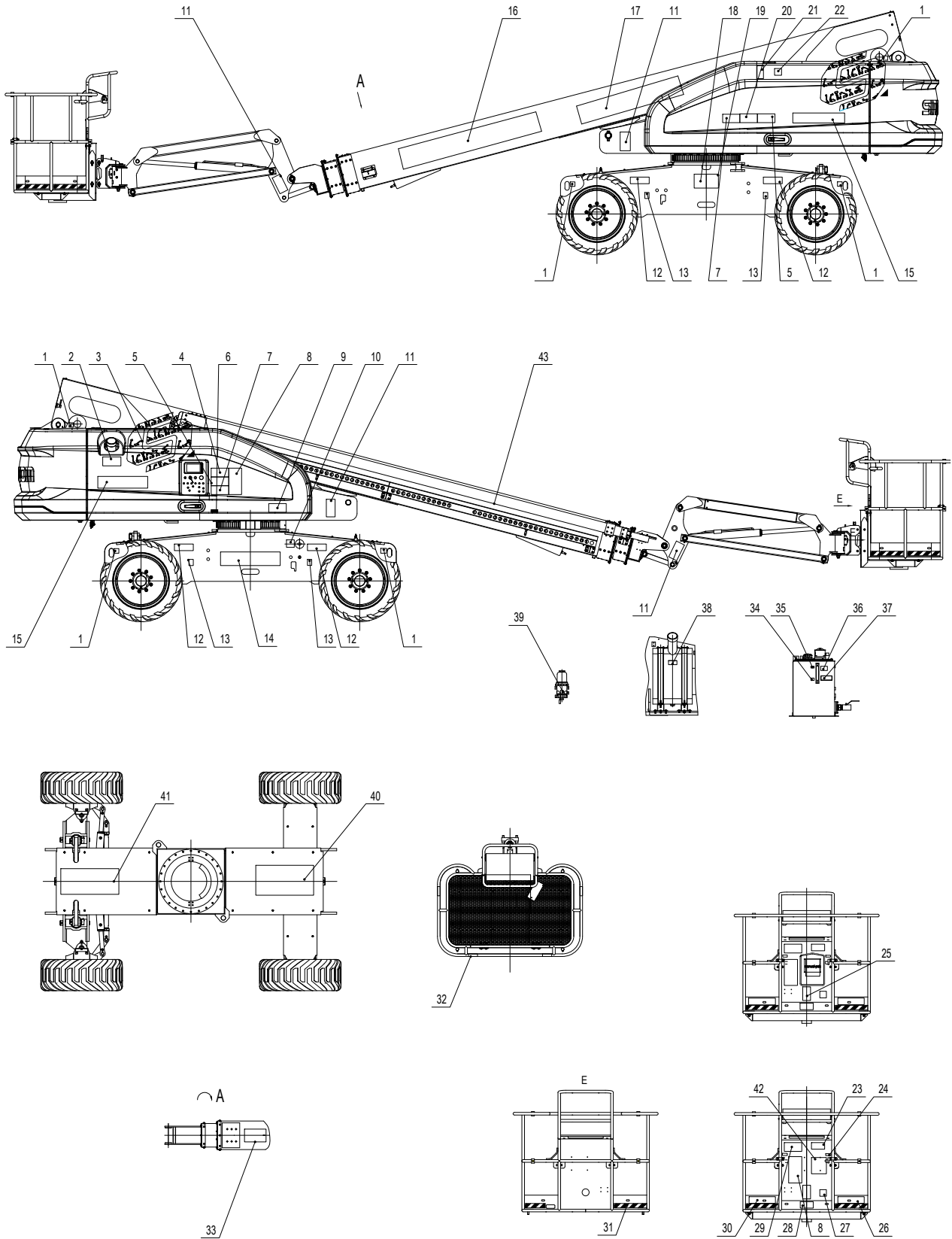


Electrical schematic of hydraulic generator(Australia)



8 DECALS

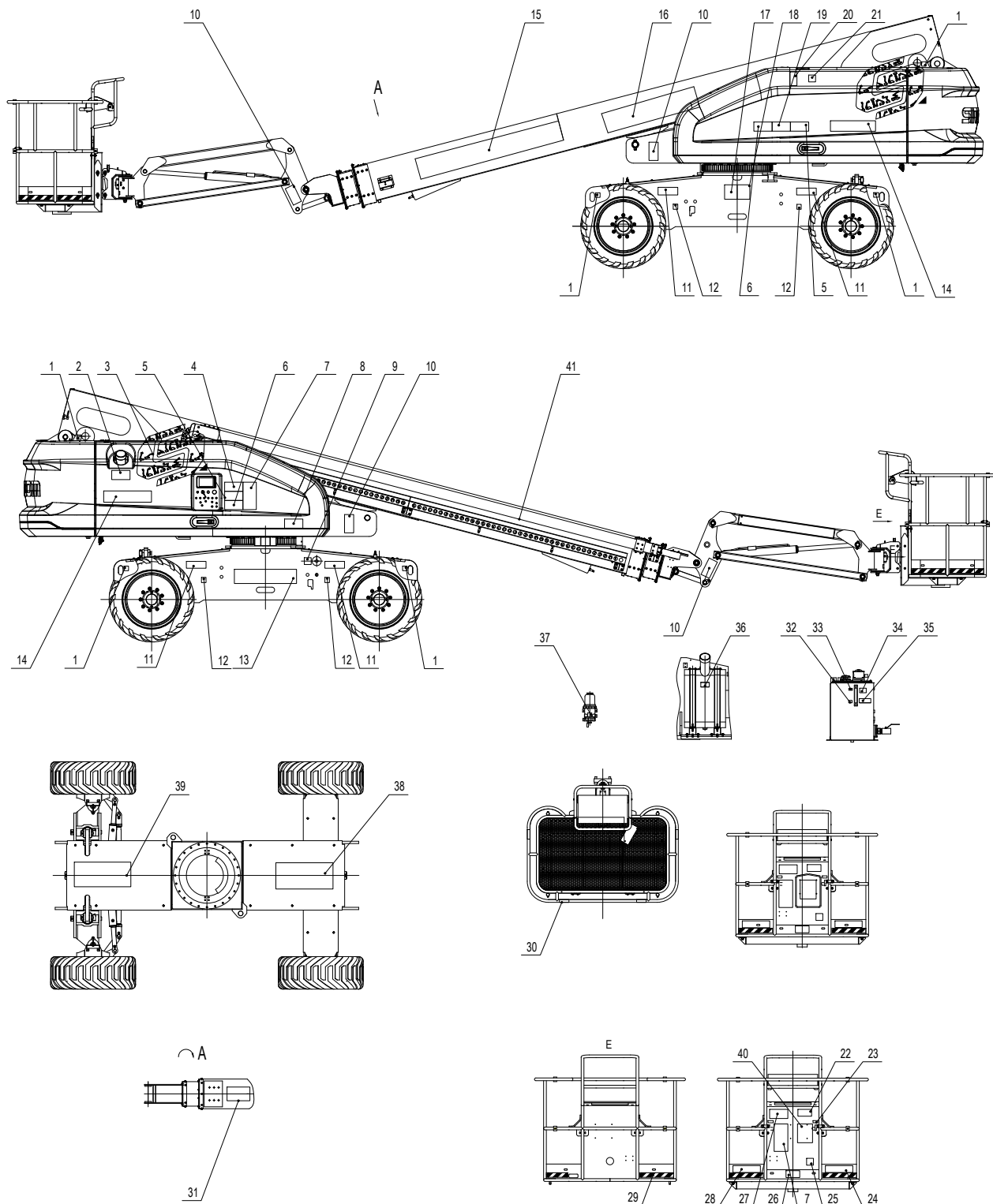
8.1 DECALS(CSA)



No.	Part No.	Qty.	Description
	105050103014	1	Decals (CSA)-TB20J Plus
1	104011100002	6	Decal-Lifting points
2	104011100014	1	Decal-Explosion hazard
3	105045103002	2	LOGO-symbol
4	104011100013	1	Decal-Electrocution hazard
5	104011100007	2	Decal-Tipping hazard
6	101040103015	1	Decal-Annual inspection
7	104011100006	2	Decal-Bulkhead overhaul
8	104011100020	2	Decal-General safety
9	104011100022	1	Decal-Turntable rotary lock
10	104011100016	1	Decal-Emergency stop switch
11	104011100011	4	Decal-Crush hazard
12	104011100001	4	Decal-Tipping hazard
13	113002103008	4	Decals-Wheel load 6740kg
14	105001100050	1	Decal-Contact information
15	105050103012	2	Decal-TB661J Plus
16	105057103001	1	LOGO-SINOBOOM
17	105050103011	1	Decal-TB660J Plus
18	105045103003	1	Nameplate-CSA(TB)
19	215050000001	4	Blind rivet 3×8-ZnD GB/T 12618.2
20	104011100005	1	Decal-Explosion hazard
21	104011100018	1	Decal-Burn hazard
22	104011100008	1	Decal-Noise 82dB
23	104011100009	1	Decal-Read manuals
24	101016100030	2	Decal-Lanyard anchorage points
25	105029103023	1	Decal-Operating instructions
26	105046103004	1	Decal-Rated load 454kg
27	104011100017	1	Decal-Footswitch
28	104011100019	1	Decal-Crush hazard
29	105021100003	1	Decal-Tipping hazard
30	105071103005	1	Decal-Tipping hazard(600N)
31	216060000002	4	Attention line
32	104011100021	4	Decal-Crush hazard
33	104011100012	1	Decal-Fall hazard
34	104011100003	1	Decal-Hydraulic oil level
35	104011100010	1	Decal-Hydraulic oil level
36	104010100021	1	Decal-Hydraulic oil temperature range

No.	Part No.	Qty.	Description
37	104009100022	1	Decal-Hydraulic oil
38	104009100021	1	Decal-Diesel fuels
39	104009100020	1	Decal-Fuel-water separator
40	105001100051	1	Decal-Direction
41	105001100053	1	Decal-Direction
42	105050103008	1	Range of motion
43	105049103014	1	Decals(CSA)-TB18 Plus

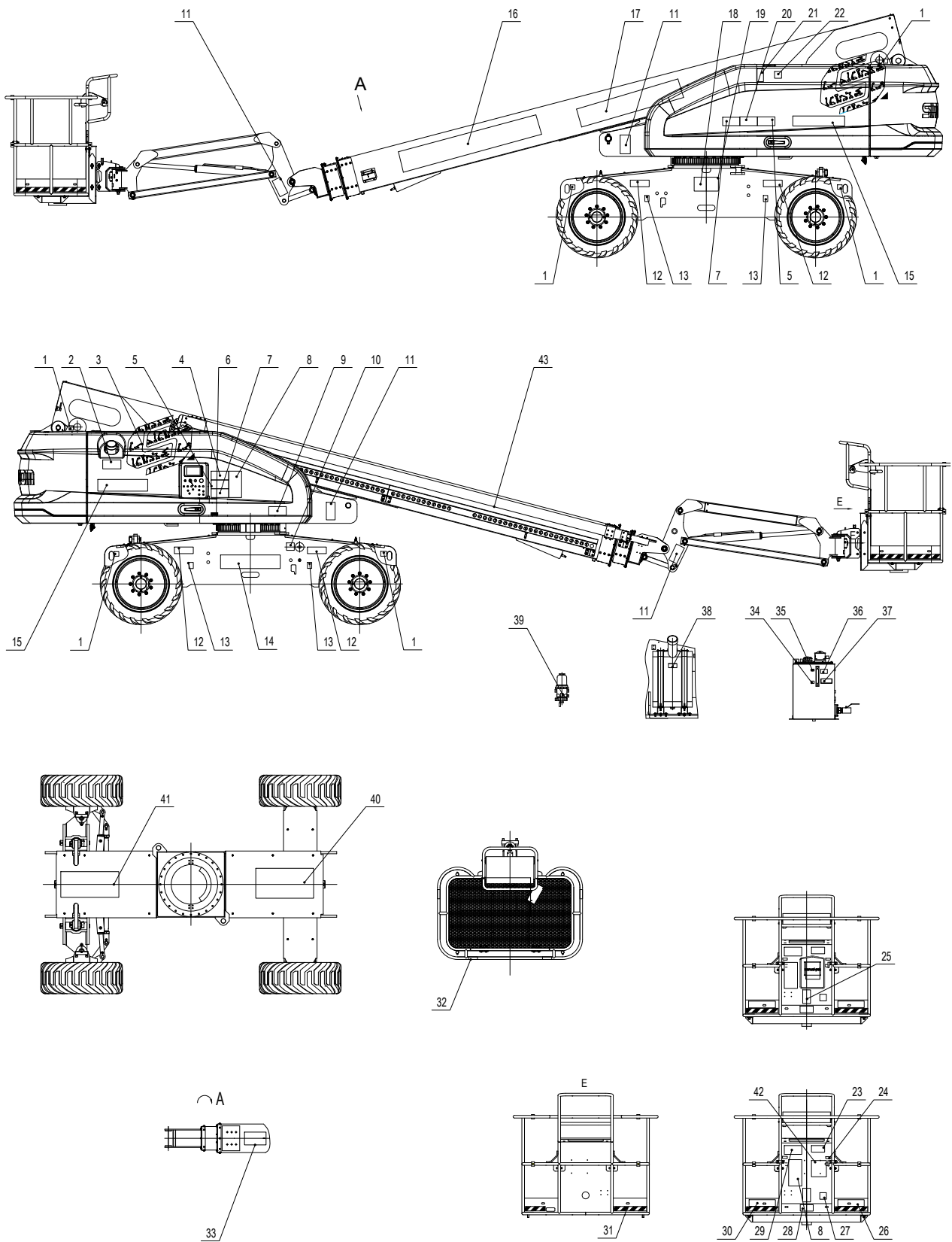
8.2 DECALS(AS)



No.	Part No.	Qty.	Description
	105050103016	1	Decals(AS)-TB20J Plus
1	104011100002	6	Decal-Lifting points
2	104011100014	1	Decal-Explosion hazard
3	105045103002	2	LOGO-symbol
4	104011100013	1	Decal-Electrocution hazard
5	104011100007	2	Decal-Tipping hazard
6	104011100006	2	Decal-Bulkhead overhaul
7	104011100020	2	Decal-General safety
8	104011100022	1	Decal-Turntable rotary lock
9	104011100016	1	Decal-Emergency stop switch
10	104011100011	4	Decal-Crush hazard
11	104011100001	4	Decal-Tipping hazard
12	105050103009	4	Decals-Wheel load 6740kg
13	105001100050	1	Decal-Contact information
14	105050103000	2	Decal-TB20J Plus
15	105057103001	1	LOGO-SINOBOOM
16	105050103001	1	Decal-TB20J Plus
17	105045103004	1	Nameplate-AS(TB)
18	215050000001	4	Blind rivet 3×8-ZnD GB/T 12618.2
19	104011100005	1	Decal-Explosion hazard
20	104011100018	1	Decal-Burn hazard
21	104011100008	1	Decal-Noise 82dB
22	104011100009	1	Decal-Read manuals
23	101016100030	2	Decal-Lanyard anchorage points
24	105046103004	1	Decal-Rated load 454kg
25	104011100017	1	Decal-Footswitch
26	104011100019	1	Decal-Crush hazard
27	105021100003	1	Decal-Tipping hazard
28	105071103005	1	Decal-Tipping hazard(600N)
29	216060000002	4	Attention line
30	104011100021	4	Decal-Crush hazard
31	104011100012	1	Decal-Fall hazard
32	104011100003	1	Decal-Hydraulic oil level
33	104011100010	1	Decal-Hydraulic oil level
34	104010100021	1	Decal-Hydraulic oil temperature range
35	104009100022	1	Decal-Hydraulic oil
36	104009100021	1	Decal-Diesel fuels

No.	Part No.	Qty.	Description
37	104009100020	1	Decal-Fuel-water separator
38	105001100051	1	Decal-Direction
39	105001100053	1	Decal-Direction
40	105050103008	1	Range of motion

8.3 DECALS(ANSI)

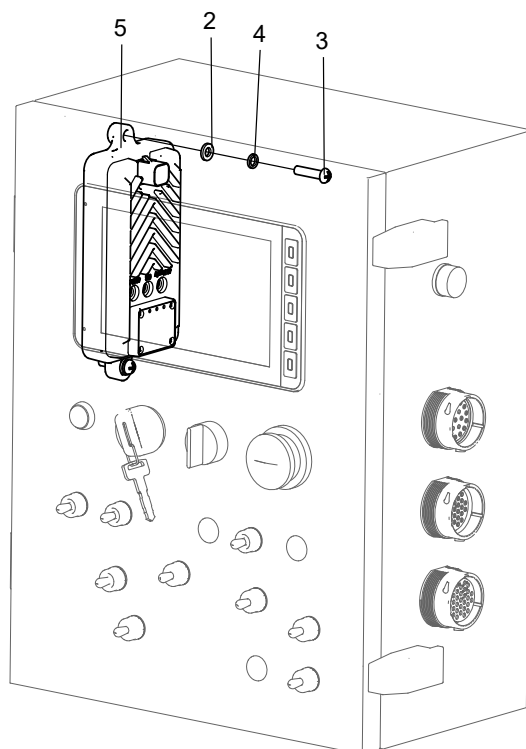


No.	Part No.	Qty.	Description
	105050103010	1	Decals(ANSI)-TB20J Plus
1	104011100002	6	Decal-Lifting points
2	104011100014	1	Decal-Explosion hazard
3	105045103002	2	LOGO-symbol
4	104011100013	1	Decal-Electrocution hazard
5	104011100007	2	Decal-Tipping hazard
6	101040103015	1	Decal-Annual inspection
7	104011100006	2	Decal-Bulkhead overhaul
8	104011100020	2	Decal-General safety
9	104011100022	1	Decal-Turntable rotary lock
10	104011100016	1	Decal-Emergency stop switch
11	104011100011	4	Decal-Crush hazard
12	104011100001	4	Decal-Tipping hazard
13	113002103008	4	Decals-Wheel load 6740kg
14	105001100050	1	Decal-Contact information
15	105050103012	2	Decal-TB661J Plus
16	105057103001	1	LOGO-SINOBOOM
17	105050103011	1	Decal-TB660J Plus
18	103007103000	1	Nameplate-ANSI(TB)
19	215050000001	4	Blind rivet 3×8-ZnD GB/T 12618.2
20	104011100005	1	Decal-Explosion hazard
21	104011100018	1	Decal-Burn hazard
22	104011100008	1	Decal-Noise 82dB
23	104011100009	1	Decal-Read manuals
24	101016100030	2	Decal-Lanyard anchorage points
25	105029103023	1	Decal-Operating instructions
26	105046103004	1	Decal-Rated load 454kg
27	104011100017	1	Decal-Footswitch
28	104011100019	1	Decal-Crush hazard
29	105021100003	1	Decal-Tipping hazard
30	105071103005	1	Decal-Tipping hazard(600N)
31	216060000002	4	Attention line
32	104011100021	4	Decal-Crush hazard
33	104011100012	1	Decal-Fall hazard
34	104011100003	1	Decal-Hydraulic oil level
35	104011100010	1	Decal-Hydraulic oil level
36	104010100021	1	Decal-Hydraulic oil temperature range

No.	Part No.	Qty.	Description
37	104009100022	1	Decal-Hydraulic oil
38	104009100021	1	Decal-Diesel fuels
39	104009100020	1	Decal-Fuel-water separator
40	105001100051	1	Decal-Direction
41	105001100053	1	Decal-Direction
42	105050103008	1	Range of motion

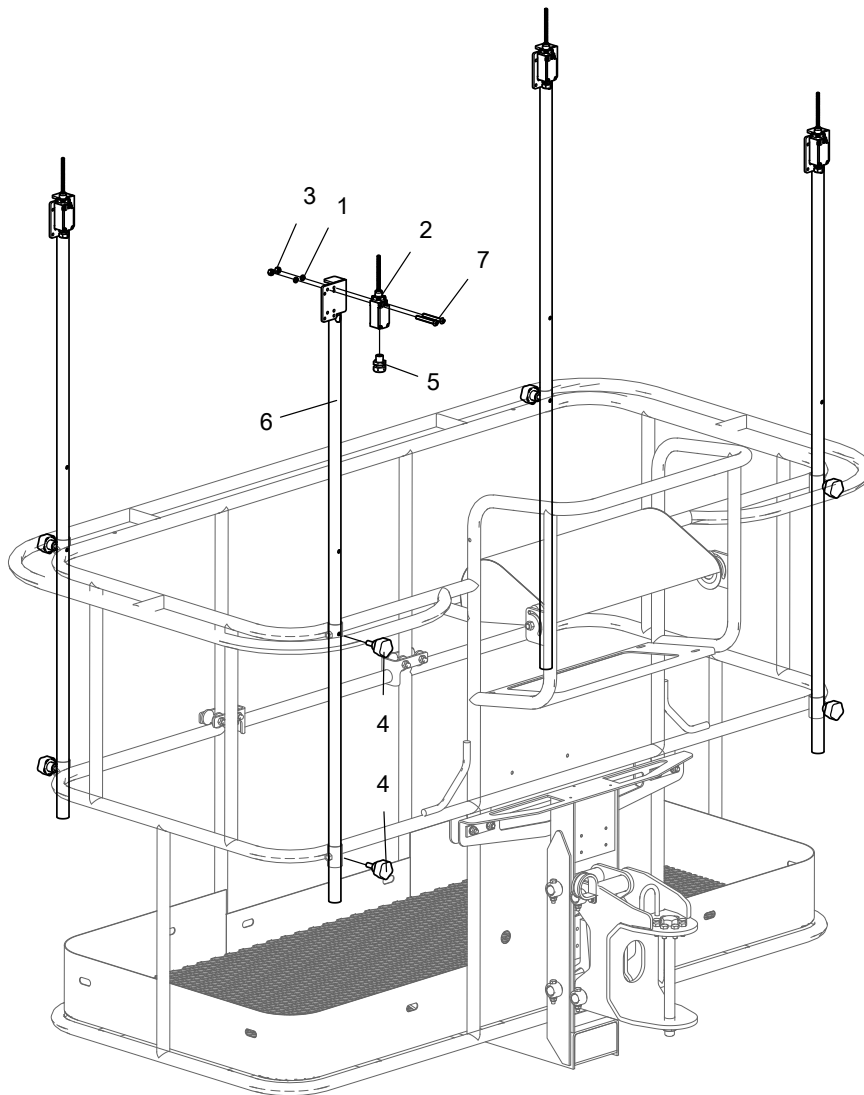
9 SPECIAL OPTIONS

9.1 GPS INSTALLATION



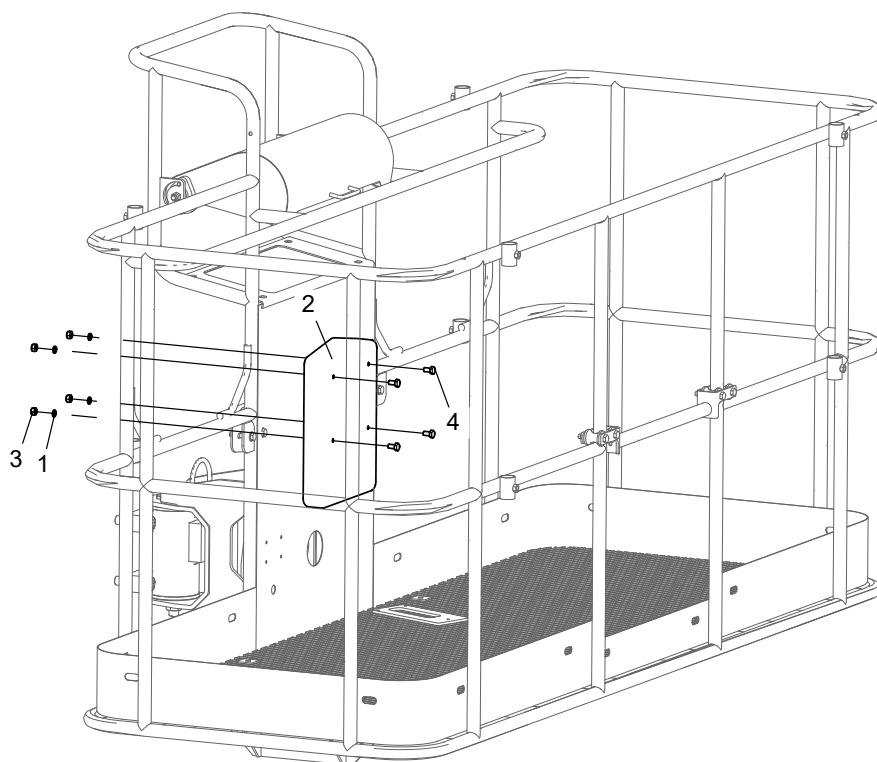
No.	Part No.	Qty.	Description
1	203150003022	1	GPS/LTE antenna(Not Shown)
2	215040000033	2	Washer 6-A2 GB/T 97.1
3	215020000118	2	Screw M6×25-A2-70 GB/T 818
4	215040000004	2	Washer 6-A2-70 GB/T 93
5	203150003021	1	GPS module (4G)

9.2 OVERHEAD PROTECTION INSTALLATION



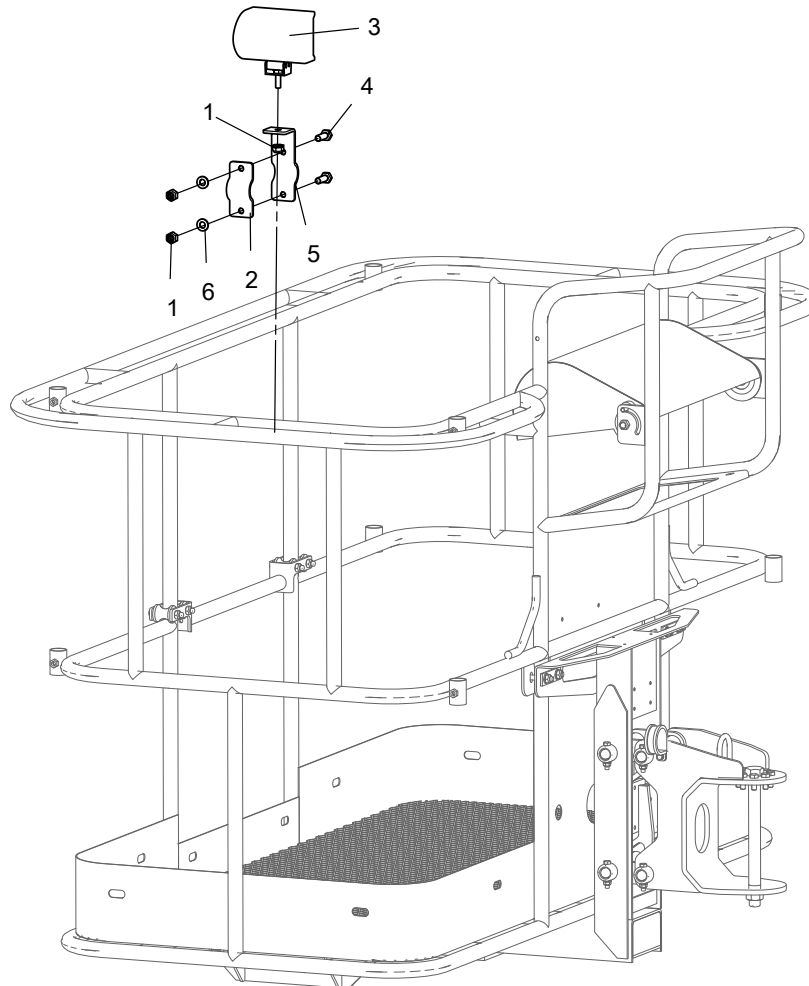
No.	Part No.	Qty.	Description
1	215040000003	8	Washer 5-A2-70 GB/T 93
2	203060000056	4	Travel switch
3	215030000003	8	Nut M5-A2-70 GB/T 6170
4	209030000006	8	Bolt, star-headed
5	203990000005	4	Connector, waterproof, nylon
6	105017060001	4	Steel pipe, overhead
7	215020000215	8	Screw M5×40-A2-70 GB/T 818

9.3 MANUAL STORAGE CONTAINER INSTALLATION



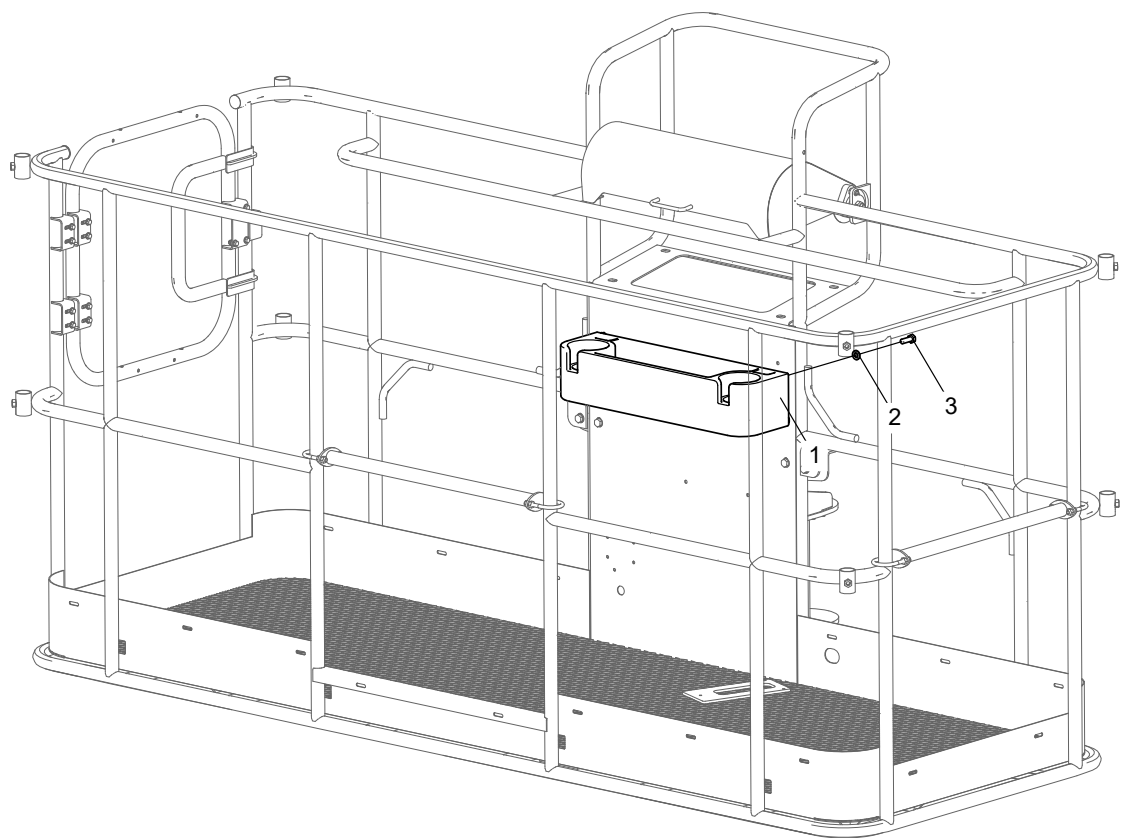
No.	Part No.	Qty.	Description
1	215040000004	4	Washer 6-A2-70 GB/T 93
2	216070000001	1	Manual storage container
3	215030000004	4	Nut M6-A2-70 GB/T 6170
4	215010000049	4	Bolt M6×12-A2-70 GB/T 5783

9.4 WORK LIGHT INSTALLATION



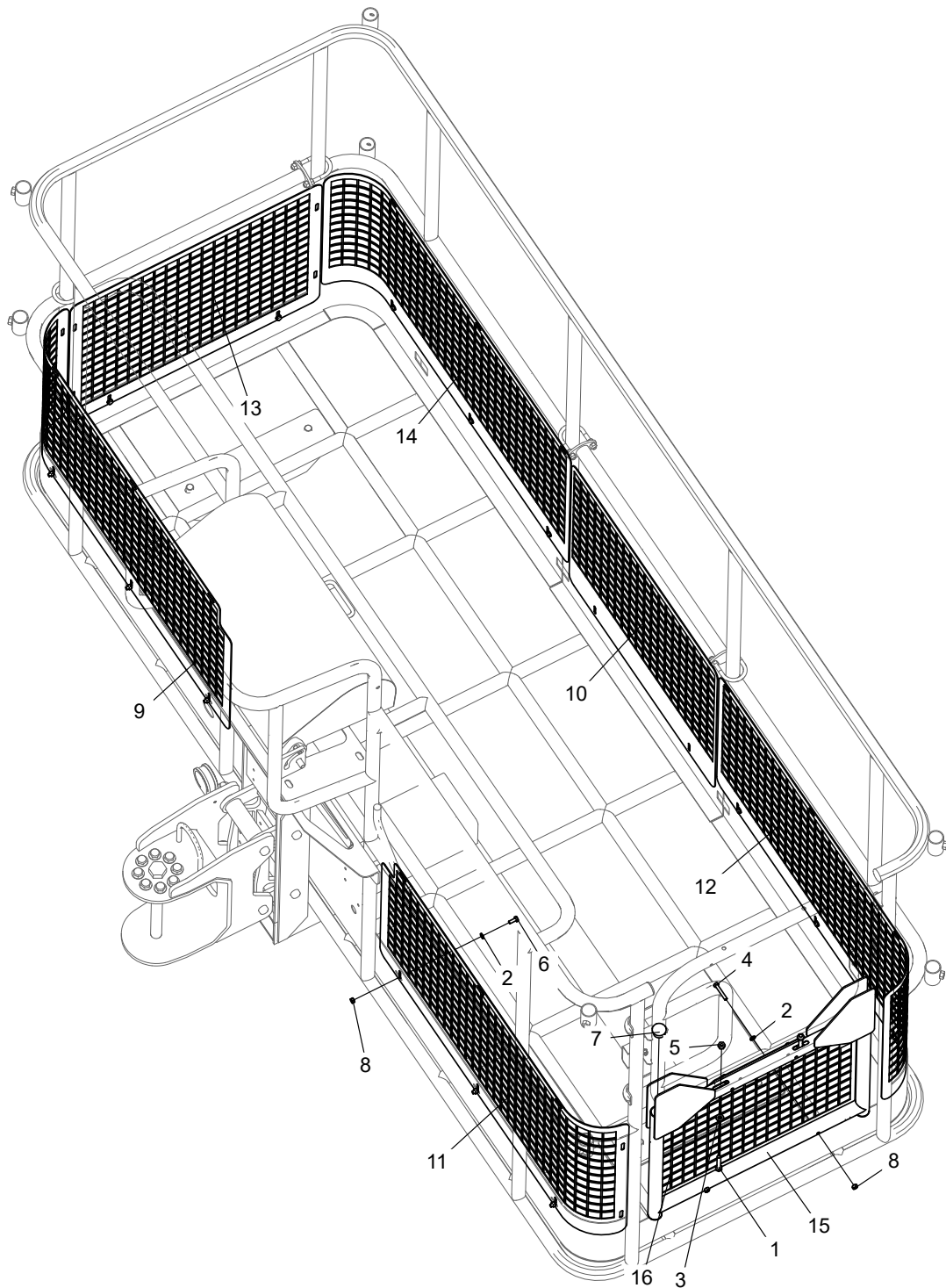
No.	Part No.	Qty.	Description
1	215030000026	3	Nut M8-8-ZnD GB/T889.1
2	105017060067	1	Plate
3	203050000020	1	Work Light, LED
4	215010000058	2	Bolt M8×25-8.8-ZnD GB/T 5783
5	105017060066	1	Plate
6	215040000034	3	Washer 8-200HV-ZnD GB/T 97.1

9.5 TOOL BOX INSTALLATION



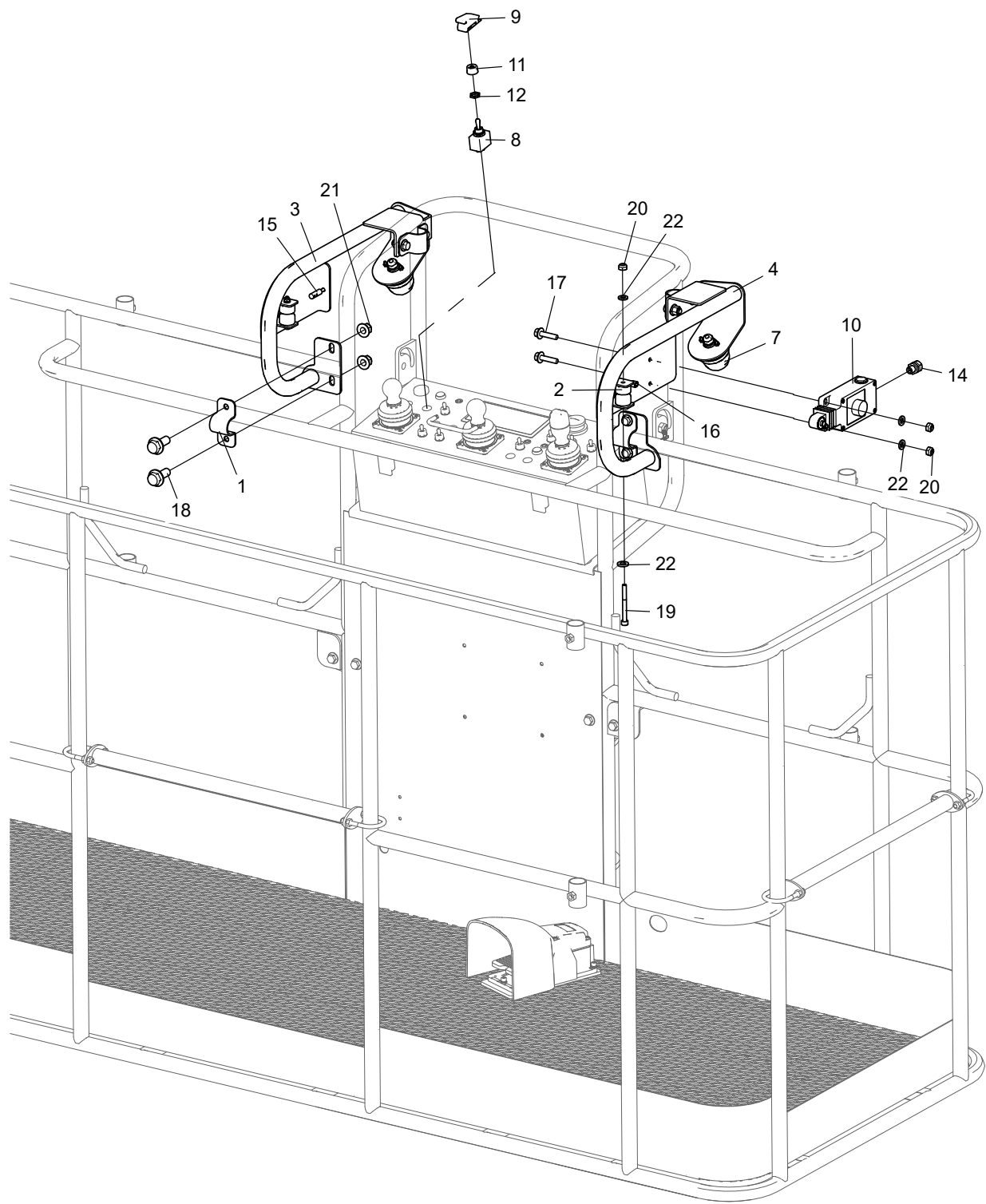
No.	Part No.	Qty.	Description
1	105064043066	1	Tool box
2	215040000035	4	Washer 10-200HV-ZnD GB/T 97.1
3	215010000071	4	Bolt M10×30-8.8-ZnD GB/T 5783

9.6 HALF-HEIGHT GUARDRAIL INSTALLATION



No.	Part No.	Qty.	Description
1	215010000062	2	Bolt M8×45-8.8-ZnD GB/T 5783
2	215040000033	18	Washer 6-A2 GB/T 97.1
3	215040000034	2	Washer 8-200HV-ZnD GB/T 97.1
4	215010000054	2	Bolt M6×40-A2-70 GB/T 5783
5	215030000005	2	Nut M8-8-ZnD GB/T 6170
6	215010000050	16	Bolt M6×16-A2-70 GB/T 5783
7	105064043177	4	Pipe seal
8	215030000004	18	Nut M6-A2-70 GB/T 6170
9	105064043030	1	Fencing plate
10	105064043176	1	Fencing plate
11	105064043031	1	Fencing plate
12	105064043027	1	Fencing plate
13	105064043028	1	Fencing plate
14	105064043175	1	Fencing plate
15	105064043103	1	Lower door frame weldment
16	105064043107	1	Side lower fencing plate

9.7 ANTI-PINCH DEVICE INSTALLATION



No.	Part No.	Qty.	Description
1	105029043013	4	Plate
2	105029043021	2	Roller
3	105029043024	1	Bracket
4	105029043026	1	Bracket
5	105054063006	1	Harness, anti-pinch device(Not shown)
6	216100003001	1	Steel cable(Not shown)
7	203050003023	2	Beacon, JD50A
8	203060000021	1	Switch, toggle
9	203060000150	1	Guard, toggle switch
10	203060003006	1	Pull switch
11	203080000101	1	Cap, waterproof
12	203080000109	1	Nut
13	203080003514	2	Terminal(Not shown)
14	203990000002	1	Waterproof cable connector
15	208020003001	1	Steel cable connector
16	209080000002	1	clamp, steel cable
17	215010000232	2	Bolt M6×25-8.8-ZnD GB/T 5789
18	215010000238	8	Bolt M10×25-8.8-ZnD GB/T 5789
19	215020000020	2	Screw M6×60-A2-70 GB/T 70.1
20	215030000025	4	Nut M6-8-A2-70 GB/T 889.1
21	215030000109	8	Nut M10-8-ZnD GB/T 6183
22	215040000033	6	Washer 6-A2 GB/T 97.1

Always for Better Access Solutions



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