

PARTS MANUAL

Starke Energy Mini Series

FBT15-MINI



STARKE MATERIAL HANDLING GROUP

402 Allanburg Road · Thorold, ON L2V 1A4 · Canada
TOLL FREE 877-435-4352
www.starkeforklift.com

STARKE
ENERGY



FBT15-MINI

Parts Manual

Foreword

1. Usage

The repair parts listed in this manual is for the FBT15-MINI type truck, including electrical, drive, steering, truck frame, accessory and optional parts.

2. Truck identification

A truck plate fixed on the significant position of the truck, display a product model in the nameplate, serial number and date of manufacture of the truck, this is the identification information of the truck.

3. How to order parts

When you want to order parts, your order must specify the type of vehicle, number of trucks, serial number, part number parts and required components name, if you have any questions on the material number of related parts, please inform your dealer, and the project required to do a complete supplement.

4. How to use this manual

This parts manual includes the all parts of the truck or assembly drawings, these drawings include standard parts and accessories.

The part number and parts name were marked in each figure, and provides additional information. Each BOM. Drawing represents a component, the list of parts is the repair parts.

5. Unnoticed revision of truck

Continuing improvement and advancement of product design may cause changes to your machine.

6. The meaning of comment symbol in the parts manual

O.D external diameter

I.D internal diameter

C represents a change

Y decomposition of graph

Z Not provided separately

X exchange of the main parts

F not shown

Configuration of product

Product Model: FBT15-MINI

Traction motor

2.2KW/24V (AC)

Controller

Drive controller: CURTIS 1234E-2321

Pump controller: CURTIS 1253C-4401

Battery

320Ah/24V

Brake

Solenoid brake: 16Nm/24V

Wheel

Dimension of drive wheel: 280X100 PU wheel

Dimension of load wheel: 305X145 Solid rubber tire

Hydraulic

Pump motor: 2.2KW/24V

Pump: 4CC

List of wearable parts

Index	Content	Parts name	Parts ERP No.	No.	Remarks
	1.02	DHS dust ring d58	0902040046	DHS58	
	1.02	UHS seal ring d58	0902030124	UHS58	
	1.02	O-RING65X2.65	0902050106	GB3452.1-92	
	1.02	Guide ring 10	31060501009	GST5800	
	1.03	DHS dust ring d40	0902040025	DHS40	
	1.03	UHS seal ring d40	0902030034	UHS40	
	1.03	O-RING47.5×2.65	0902050168	GB1235-76	
	1.03	Guide ring	31060501010	GST5900	
	12.00	Washer 12	0902010005	JB 982-1977	
	12.00	Washer 14	0902010006	JB 982-1977	
	12.00	Washer 18	0902010008	JB 982-1977	
	12.00	Washer 20	0902010009	JB 982-1977	
	11.00	Fuse 10A	060806031		
	11.00	Fuse.300A	060806012		

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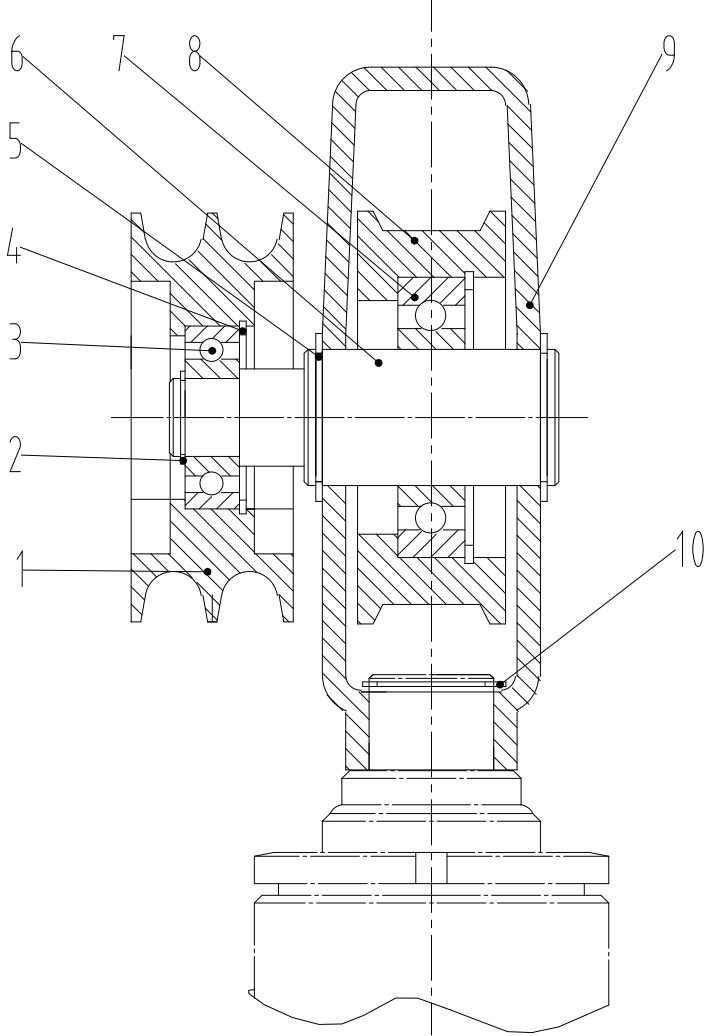
0.00(Index)		FBT15-MINI Final assembly			XXX (ERP No.)	
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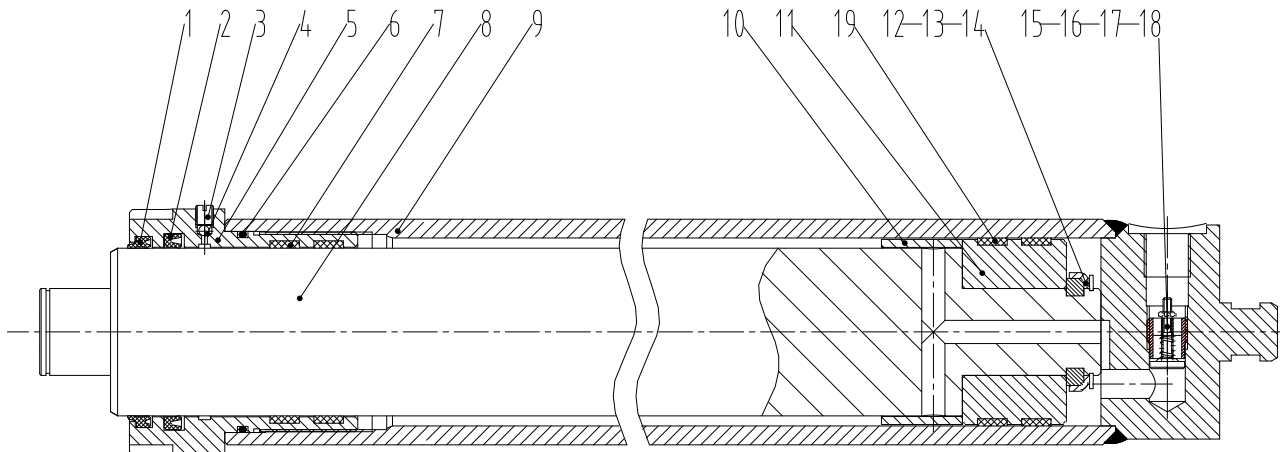
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
Y	1	FBT15-MINI.10-00		Three-level mast	1	Refer to 1.00
Y		FBT15-MINI.07-00		Two-level mast	1	Refer to 2.00
	2	GB/T 70.2	0908520001	Screw M6X16	8	
	3	GB/T 859	0908370041	Washer 6	8	
	4	CPD10S.1-01-10-00	51030307002	L-PIN	4	
	5	GB/T 70.1	0908240288	Screw M14x55	4	
	6	GB/T 93	0908370017	Washer 14	4	
	7	JB/T 7940.1	0909240014	Oil cupM6	2	
	8	RY20S.2-01	31050903018	Hoop	2	
	9	FBT15-MINI.10-01	31050909001	Shaft sleeve	2	
	10	FBT15-MINI.17.03-00	51030307061	Side door	2	
	11	GB/T 70.1-2008	0908240075	Screw M10x35	4	

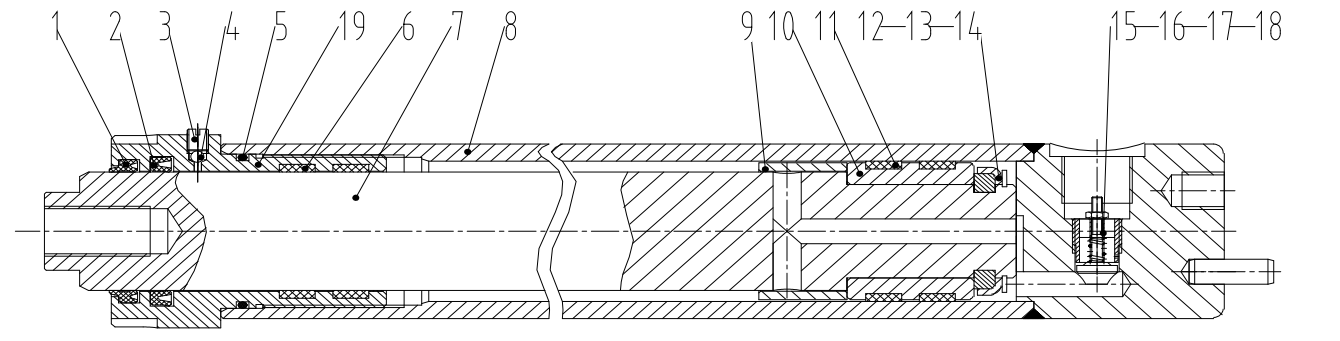
	12	CQDH12A-051000	0605016	Battery box	1	
Y	13	FBT15-MINI.22-00		Installation of oil pump motor	1	Refer to 3.00
Y	14	FBT15-MINI.18-00		Front wheel	2	Refer to 4.00
	15	GB/T 818-2000	0908280021	Screw M6x12	6	
	16	RY20S.4.7-06	120705013	Cover	1	
Y	17	RY20S.6-00		Multi-way valve assembly	1	Refer to 5.00
Y	18	FBT15-MINI.16-00	51030307062	Oil tank	1	Refer to 6.00
	19	FBT15-MINI.19-00	31050909002	Joint seat	1	
	20	GB/T 70.1	0908240072	Screw M10x25	2	
	21	GB/T 93	0908370014	Washer 10	2	
	22	FBT15-MINI.13-00	51030307063	Truck frame	1	
	23	CPD10S.11-00		Steering device	1	
	24	RY20S.4.7-04	120705012	Housing	1	
	25	RY20S.4.7-05	120705012	Housing	1	
	26	RY20S.4.7-03	120705011	Housing	1	
	27	FBT15-MINI.17.05-00	51030307064	Pedal 2	1	
	28	FBT15-MINI.17.04-00	51030307065	Pedal 1	1	
Y	29	FBT15-MINI.17.02-00	51030307066	Battery box cover	1	Refer to 7.00
	30	FBT15-MINI.17.01-00	51030307067	Rear cover	1	
	31	GB/T 834-1988	0908130009	Screw M8%x12	2	
	32	FBT15-MINI.17-01	51030307068	Base plate	1	
	33	RY20S.4.6-00	51030307018	Grid	1	
Y	34	CPD10S.8-02-00	31030501057	Tilt oil cylinder	2	Refer to 8.00
Y	35	LDL280Y-00	31060401097	Drive wheel assembly	1	Refer to 9.00
Y	36	FBT15-MINI.21-00		Roller assembly	5	Refer to 10.00
	37	FBT15-MINI.20-00	51030307069	Baffle	1	
	38	GB/T 70.2	0908520014	Screw M8X20	4	
	39	GB/T 93	0908370011	Washer 8	2	
	40	GB/T 93	0908370015	Washer 12	2	
	41	GB/T 70.1	0908240102	Screw M12x35	6	
Y	42	CPD15-E.01-00		Electrical system	1	Refer to 11.00
Y	43	FBT15-MINI.02-00		Hydraulic system	1	Refer to 12.00
	44	FBT15-MINI-01	061411081	Gas spring	2	
Y- Separate illustration						

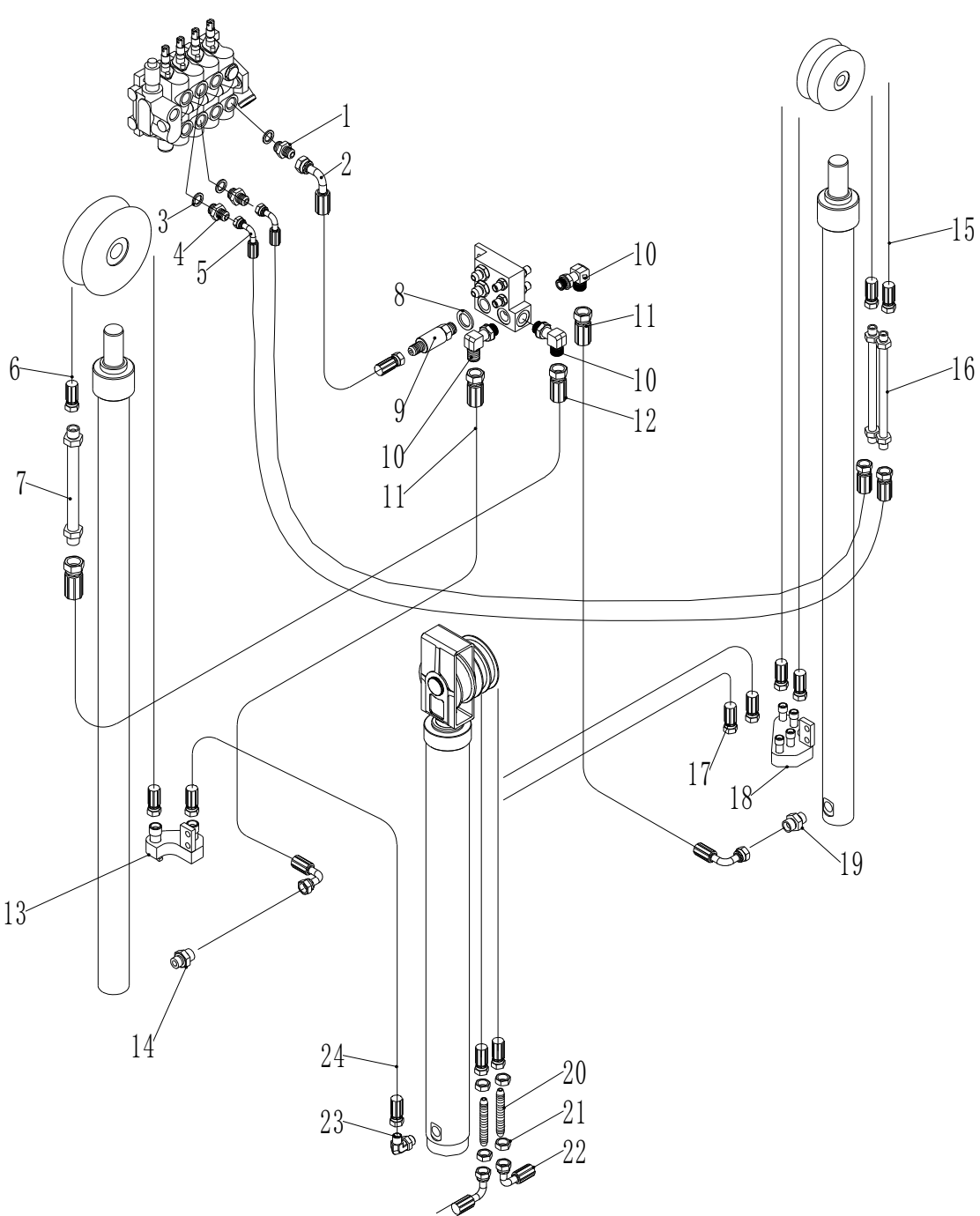
1.00(Index)		Three-level mast assembly			XXX (ERP No.)	
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	FBT15-MINI.10.01-00	51030307070	Outer mast assembly	1	
	2	PHS15.7C.2-00	51010112019	Middle mast assembly	1	4.5M
		PHS15.7D.2-00	51010112020	Middle mast assembly	1	5M
	3	PHS15.7C.3-00	51010112022	Inner mast assembly	1	4.5M
		PHS15.7D.3-00	51010112023	Inner mast assembly	1	5M
...	4	15803010000	0909120041	Roller wheel	2	
	5	15803000005	061412033	Spacer block	6	
	6	CQD10B.1.14-00	51030803045	Load-backrest	1	4.5M
		PHS15-091000	51010112008	Load-backrest	1	5M

Y	7	PHS15.7C.11-00		Chain wheel carriage assembly	1	Refer to 1.01
	8	PHS15.7C.8-00	31060301027	Chain assembly	1	4.5M
		PHS15.7D.8-00	31060301028	Chain assembly	1	5M
	9	GB/T 894.1-2000	0908320026	Circlip for shaft 30	3	
Y	10	PHS15.7C.6-00	31030401101	Middle oil cylinder	1	Refer to 1.02
	11	PHS15.7B-01	31051013001	Fixed plate	1	
	12	GB/T 5783-2000	0908420049	Screw M10x25	2	
	13	GB/T 93-2000	0908370014	Washer 10	4	
	14	GB/T 97.1-2000	0908350016	Washer 10	4	
	15	GB/T 5783-2000	0908420187	Screw M12x35	4	
	16	GB/T 93-2000	0908370015	Washer 12	7	
	17	CQD10B.1.13-00	061401001	Side shifter	1	
	18	GB/T 70.1-2000	0908240187	Screw M12x25	1	
	19	HC100	0870030066	Fork assembly 35*100*950	2	
	20	FBT15-MINI.10.02-00	51030307071	Sliding frame assembly	1	
	21	15803007000	15803007000	Chain wheel	1	
	22	15074502302	31050904060	Shaft	1	
	23	15074502301	31050904028	Wheel	1	
	24	GB/T41-1986	0908030074	Nut M10	2	
	25	15074502401	31050904061	Shaft	1	
	26	15074502402	31050904062	Wheel	1	
	27	GB/T 70.1-2000	0908240141	Screw M16x1.5x50	2	
	28	GB/T 93-2000	0908370019	Washer 16	3	
	29	PHS15.7C-01	31051013006	Screw	2	
Y	30	PHS15.7C.7-00	31030401094	Side lift oil cylinder	2	Refer to 1.03
	31	30803000011a	0909190005	Fixed ring	2	
	32	15803000004a	31050904066	Support	2	
	33	GB/T 889.1	0908010009	Nut M10	4	
	34	GB/T 71-85	0908190008	Screw M12x35	2	
	35	GB/T 6170-2000	0908030019	Nut M12	2	
	36	PHS15.7C.9-00	31060301030	Chain assembly	1	4.5M
		PHS15.7D.9-00	31060301031	Chain assembly	1	5M
	37	15077600010	31050904058	Clamp	1	
	38	GB/T 93-2000	0908370007	Washer 6	1	
	39	GB/T 70.1-2000	0908240022	Screw M6X16	2	
	40	GB/T 119.2-2000	0908470025	Pin 8x25	2	
	41	GB/T 5783-2000	0908420187	Screw M12x35	4	
Y	42	FBT15-MINI.10.03-00		Pipeline system	1	Refer to 1.04
	43	GB/T 6170-2000	0908030013	Nut M8	1	
	44	GB/T 79-2000	0908220008	Screw M8x25	1	
Z- Not service separately C- Indicates change						

1.01(Index)	Chain wheel carriage assembly				XXX (ERP No.)	
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	CQD10B.1-10	061314018	Guide wheel	1	
	2	GB894.1	0908320018	Circlip for shaft20	1	
	3	GB278	0907020155	Bearing 6204	1	
	4	GB893.2	0908310016	Circlip for hole47	1	
	5	GB894.2	0908320029	Circlip for shaft35	2	
	6	CQD10B.1.10-02	31051101008	Shaft 35	2	
	7	GB278	0907020045	Bearing 6207	2	
	8	CPD10A	0602508	Chain wheel	1	
	9	PHS15.7C.11	51010112027	Chain wheel carriage	1	
	10	GB894.2	0908320026	Circlip for shaft30	1	
Z- Not service separately						

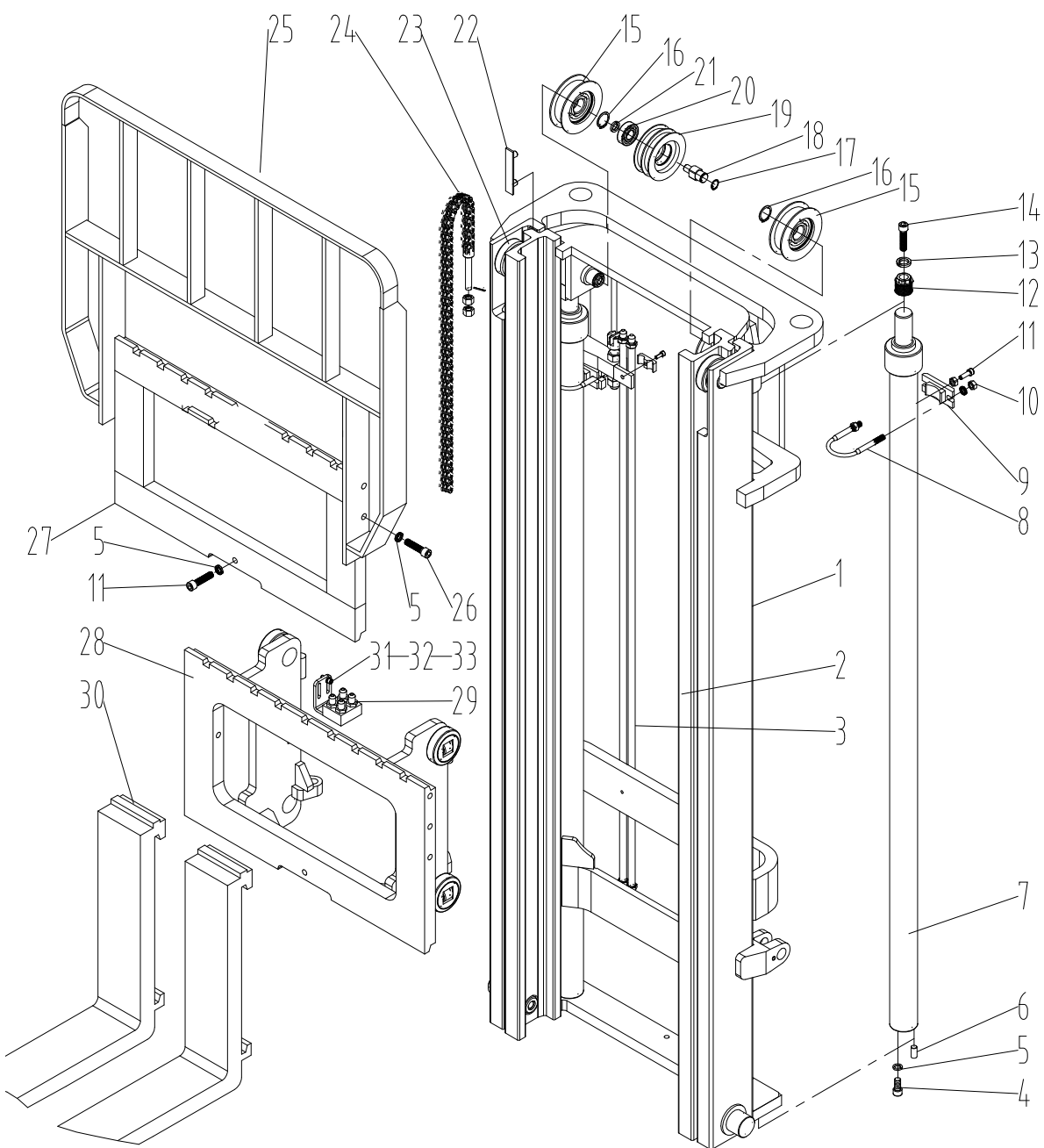
1.02(Index)		Middle oil cylinder assembly			XXX (ERP No.)	
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	DHS58	0902040046	DHS dust ring d58	1	
	2	UHS58	0902030124	UHS seal ring 58X68X6	1	
	3	GB73-85	0908170008	Screw M6X8	1	
	4	GB308-77	0907010007	Ball 4	1	
	5	CDD15RZ.04-01	31051004046	Hood	1	
	6	GB3452.1-92	0902050106	O-RING 65(I.D.)X2.65	1	
	7	GST5800	31060501009	Guide ring 10	2	
	8	CDD15C.23-01	0901170062(4.5M)	Piston rod	1	
			0901170063(5.0M)			
			0901170032(5.6M)			
	9	CDD15C.23-02	51010110020(4.5M)	Middle oil cylinder assembly	1	
			51010110021(5.0M)			
			51010110022(5.6M)			
	10	CDD15RZ.04-04	31051004047	Bush	1	
	11	CDD15RZ.04-05	31051004048	plunger	1	
	12	DG01.3-04	0909210006	Semi-ring	2	
	13	DG01.3-05	0909210007	Semi-ring cover	1	
	14	GB894.1-86	0908320026	Circlip for shaft30	1	
	15	6W804.6-07	3026010	Relief valve body	1	
	16	6W804.6-08	0903170013	Spring	1	
	17	6W804.6-09	0901110021	Valve seat	1	
	18	GB889-86	0908010001	Nut M3	1	
	19	GST5900	31060501010	Guide ring 10	2	
Z- Not service separately						

1.03(Index)		Side lift oil cylinder assembly				XXX (ERP No.)	
							
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks	
	1	DHS40	0902040025	DHS dust ring d40	1		
	2	UHS40	0902030034	UHS seal ring 40X50X6	1		
	3	GB73-85	0908170027	Screw M6X6	1		
	4	GB308-77	0907010007	Ball 4	1		
	5	GB3452.1-92	0902050168	O-RING47.5(I.D.)X2.65	1		
	6	GST5800	31060501009	Guide ring 10	2		
	7	CDD15C.05-01	0901170060 (4.5m)	Piston rod	1		
			0901170061 (5.0m)				
			0901170031(5.6m)				
	8	CDD15C.05-02	31051009067 (4.5m)	Side oil cylinder assembly	1		
			31051009068 (5.0m)				
			31051009069(5.6m)				
	9	CDD15C.05-03	31051009013	Bush	1		
	10	CDD15C.05-04	31051009015	plunger	1		
	11	GST5900	31060501010	Guide ring 10	2		
	12	DG01.3-04	0909210006	Semi-ring	2		
	13	DG01.3-05	0909210007	Semi-ring cover	1		
	14	GB894.1-86	0908320026	Circlip for shaft 30	1		
	15	6W804.6-07	3026010	Relief valve body	1		
	16	6W804.6-8	0903170013	Spring	1		
	17	6W804.6-9	0901110021	Valve seat	1		
	18	GB/T 889-86	0908010001	Nut M3	1		
	19	CDD15C.05-06	31051009012	Hood	1		
Z- Not service separately							

1.04(Index)		Three-level mast pipeline			XXX (ERP No.)	
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	CQD10A.15-35	061318163	Joint	1	
	2	CQDH10A-070003	061314100	Hose	1	
	3	JB/T892	0902010009	Washer 20	3	
	4	CQDH15C-070003	310601020	Joint	2	
	5	PHS15.7.4-03	061321153	Hose	2	
	6	15077600004A	061317085	Hose	1	

	7	15077602000	061317057	Rigid pipe	1	4.5M
		15077602000a	061317067	Rigid pipe	1	5M
	8	JB/T892	0902010010	Washer 22	1	
	9	CQD10A.25-00	31060401029	Throttle	1	
	10	1577606000A	061309126	Joint	3	
	11	15077600006	061317088	Hose	2	
	12	CPD20Ex.10-02	061318342	Hose	1	
	13	15074506000	061322029	Joint	1	
	14	AQF-F16L-2T-1	0901140076	Valve	1	
	15	CQDH15D-070009	061321055	Hose	2	
	16	PHS15.7B.1.1-00	061314186	Rigid pipe	2	4.5M
		PHS15.7D.1.1-00	061314203	Rigid pipe	2	5M
	17	CQD12A-070001	061314160	Hose	2	
	18	PHS15.7B.3.2-00	31051013009	Connection seat	1	
	19	1577600009	061309120	Joint	1	
	20	CQD10B.1-16	061318183	Joint	2	
	21	GB/T 6171	0908030080	Nut M14x1.5	4	
	22	CQD10B.1-07	061317054	Hose	2	
	23	PHS15.7B.10-01	061314187	Joint	1	
	24	15077600001	061317083	Hose	2	
Z- Not service separately C- Indicates change						

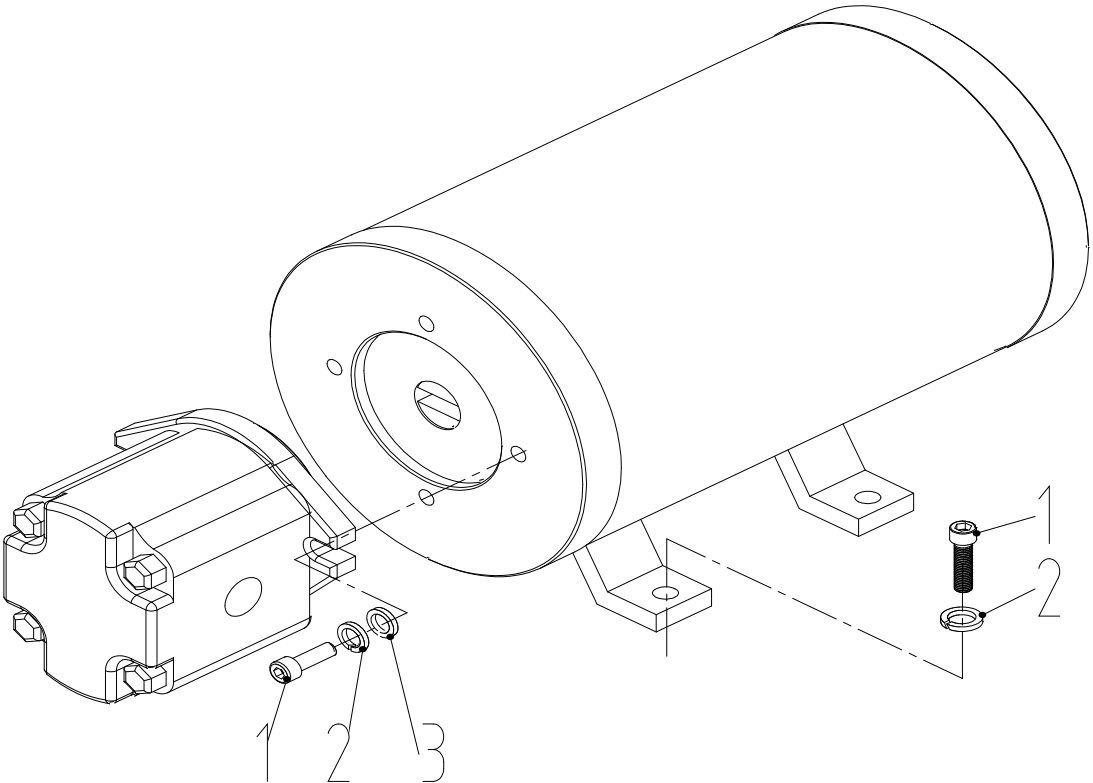
NOTE: If it is sub-component, should write down the index number, name, and ERP number of higher-level exploded view.

2.00(Index)	Two-level mast assembly				XXX (ERP No.)	
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	FBT15-MINI.07.01-00	51030307072	Outer mast	1	
	2	PHS15.7.2-00a	51010112013	Inner mast	1	
Y	3	FBT15-MINI.07.03-00		Mast pipeline	1	2.01
	4	GB/T70.1	0908240199	ScrewM12X1.5X30	2	
	5	GB93	0908370015	Washer 12	8	

	6	GB/T 119.2	0908470025	Pin 8x25	2	
Y	7	PHS.7C.7-00	31030401094	Lift oil cylinder	2	1.03
	8	30803000011	0909190024	Fixed ring	2	
	9	30803000017	0880020001	Support plate	2	
	10	GB/T889.1	0908010009	Nut M10	4	
	11	GB/T70.1	0908240102	ScrewM12X35	2	
	12	PHS15.7C-01	31051013006	Screw	2	
	13	GB93	0908370019	Washer 16	3	
	14	GB/ 70.1	0908240141	Screw M16x1.5x50	2	
	15	15803007000	31060401030	Chain wheel	2	
	16	GB/T 894.1	0908320026	Circlip for shaft30	1	
	17	GB/T 894.1	0908320018	Circlip for shaft20	1	
	18	PHS15.7-01	31051013007	Shaft	1	
	19	CQD10B.1.10-01	31051101009	Guide ring	1	
	20	GB/T276	0907020155	Bearing 6204-2LS	1	
	21	GB/T 93	0908370017	Washer 14	1	
	22	15803000005	061412033	Spacer block	2	
	23	CRA78.3	0907050063	Roller wheel 78.3	12	
	24	15803005000	31060401031 (3m)	Chain (LH0846)-163 s ection	2	
			31060401032(3.5m)			
	25	PHS15-091000	51010112008	Load-backrest	1	
	25	CQD10B.1.14-00	51030803045	Load-backrest	1	
	26	GB/T 5783	0908420187	Screw M12x35	6	
	27	CQD10B.1.13-00	061401001	Side shifter	1	
	28	FBT15-MINI.07.02-00	51030307073	Sliding frame assembly	1	
	29	PHS15.7.5-00	31051013008	Pin 8x24	2	
	30	HC100	0870030066	Fork assembly 35*100*950	2	
	31	GB/T 5783	0908420214	Screw M6X25	2	
	32	GB/T 93	0908370007	Washer 6	2	
	33	GB95	0908350050	Washer 6	2	
Z- Not service separately C- Indicates change						

2.01(Index)	Two-level mast pipeline			XXX (ERP No.)		
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	JB/T892	0902010009	Washer 20	4	
	2	CQDH15C-072003	061318196	Joint	2	
	3	PHS15.7.4-03	061321153	Oil pipe 2	2	

	4	PHS15.7.4-02	061321150	Oil pipe	2	
	5	PHS15.7.4-01	061321151	Rigid pipe	2	
	6	CQD10A.15-35	061318163	Joint	1	
	7	CQDH10A-070003	061314100	Hose	1	
	8	CQD10A.25-00	31060401029	Throttle	1	
	9	JB/T892	0902010010	Washer 22	1	
	10	1577606000A	061309126	Joint	2	
	11	15077600006	061317088	Hose	2	
	12	1577600009	061309120	Joint	1	
	13	CDD15C.25-07	061317819	Oil pipe 14*1.5*430	1	
	14	CPD10A-37-09	061313002	Oil pipe 14*1.5*550	1	
	15	1QB14-04	061309025	Joint G1/4 /M14*1.5	2	
	16	JB/T892	0902010020	Washer G1/4	2	
	17	BF.2B-3	0901120013	Plug M20x1.5	1	
Z- Not service separately C- Indicates change						

3.00	Installation of oil pump motor					
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	GB/T70.1	0908240050	Screw M8x30	6	
	2	GB/T 93	0908370011	Washer 8	6	
	3	GB/T 95	0908350013	Washer 8	6	
Y- Separate illustration						

4.00

Front wheel assembly

The diagram is a cross-sectional view of a front wheel assembly. It shows a central shaft passing through two bearings (3). The bearings are held in place by end caps (4) which are secured with screws (5) and washers (6). A circlip (7) is used to secure the assembly on the shaft. The entire assembly is mounted on a rim (2) which is attached to a solid tire (1). The tire and rim are shown in cross-section with hatching patterns. The callouts are: 1 - Solid tire, 2 - Rim, 3 - Bearing, 4 - End cap, 5 - Screw, 6 - Washer, 7 - Circlip for shaft.

Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	FBT15-MINI.18-03	061402254	Solid tire305X145	1	
	2	FBT15-MINI.18-01	31050909005	Rim	1	
	3	GB/T 276-1994	0907030301	Bearing 6312 (two-side seal)	2	
	4	FBT15-MINI.18-02	31050909006	End cap	1	
	5	GB/T 70.2-2008	0908520017	Screw M8x25	3	
	6	GB/T 93-1987	0908370011	Washer 8	3	
	7	GB/T 894.1-1986	0908320038	Circlip for shaft 60	1	

5.00

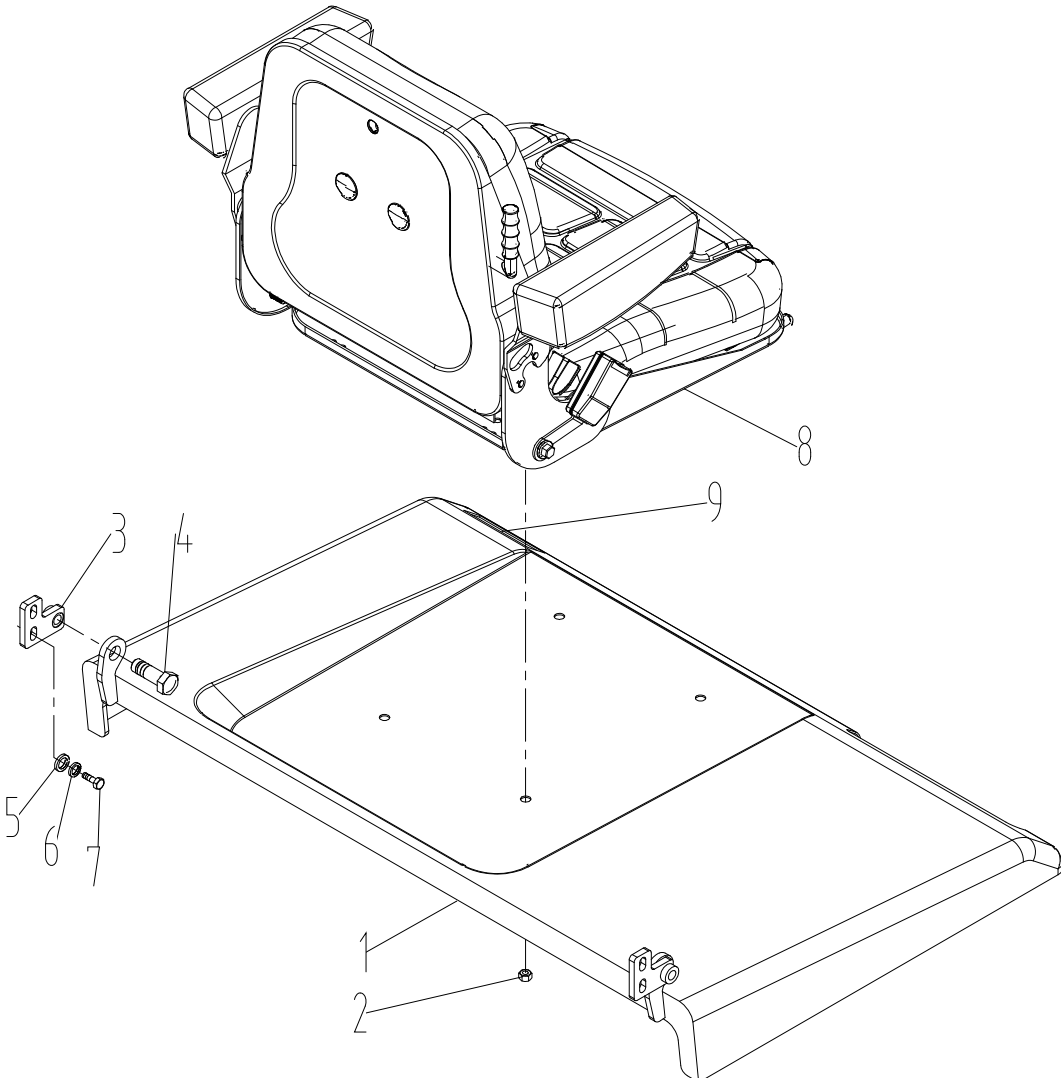
Multi-way valve assembly

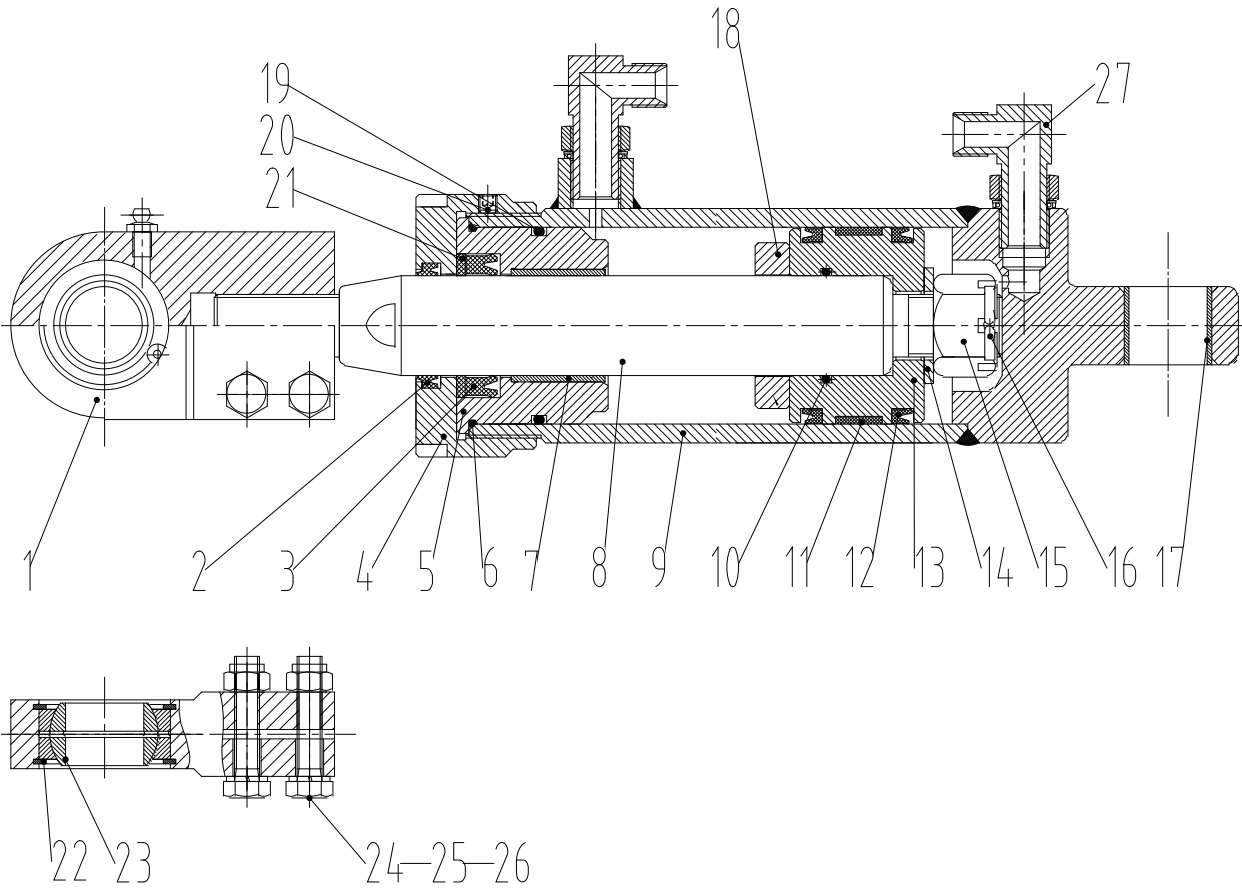
Exploded view diagram of a multi-way valve assembly. The diagram shows a central valve body (18) with four control levers (5, 6, 7, 8) and four handles (1, 2, 3, 4). Various pins (9, 10, 11, 12, 13, 14), connecting plates (21, 22), and other components (15, 16, 17, 19, 20, 23) are shown in their relative positions for assembly.

Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1		061412100	Lift handle	1	
	2		061412099	Tilt handle	1	
	3		061412098	Side-shift handle	1	
	4		061412098	Accessory handle	1	
	5	RY20S.6.1-00	51030307005	Control lever	1	
	6	RY20S.6.2-00	51030307006	Control lever	1	
	7	RY20S.6.3-00	51030307007	Control lever	1	
	8	RY20S.6.4-00	51030307008	Control lever	1	
	9	RY20S.6-02	31050903012	Connecting plate	AR	
	10	GB/T91-2000	0908490034	Pin 2X12	AR	
	11	COD10A.17-02	0906220016	Pin	AR	

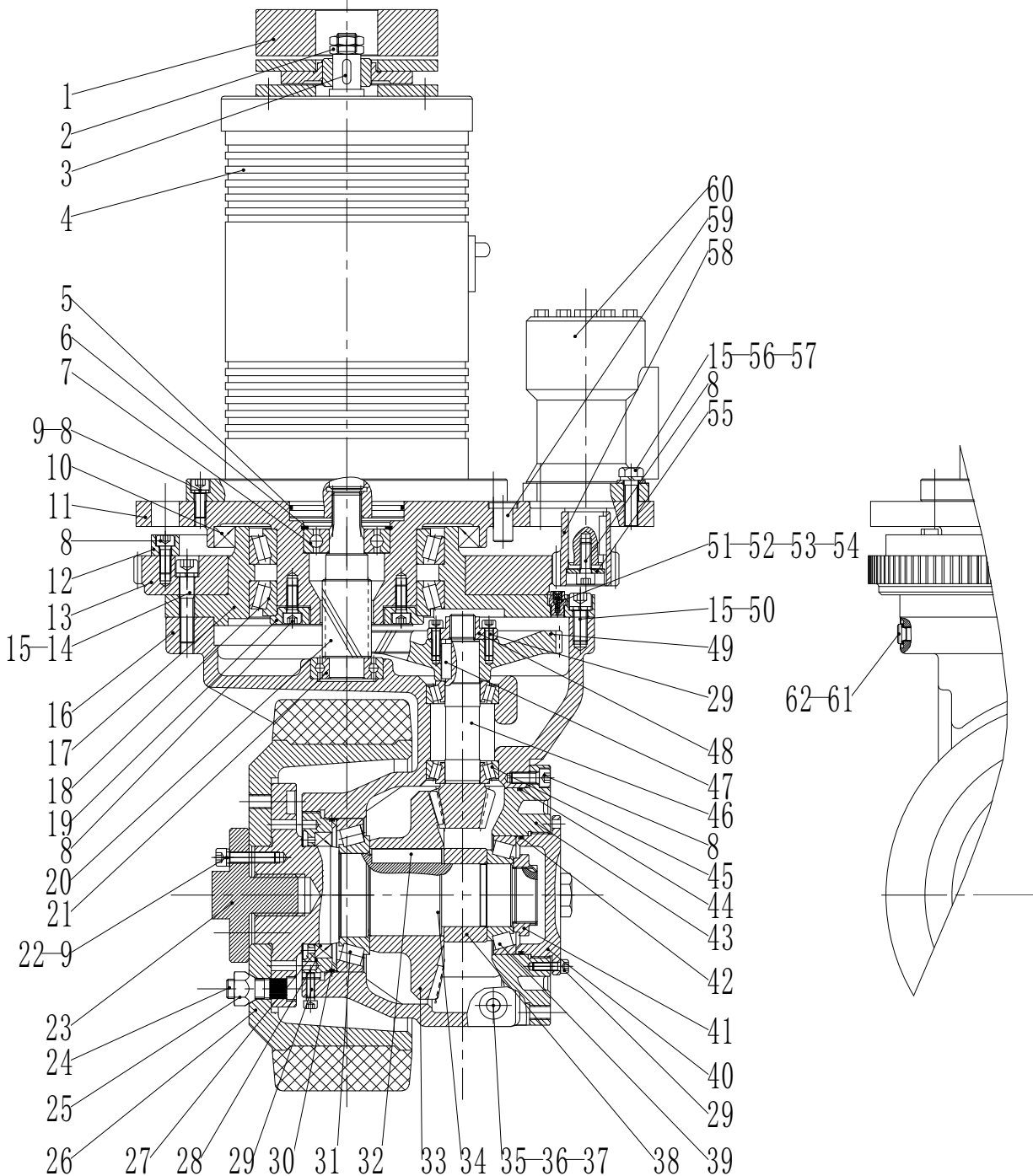
	12	RY20S.6-01	31050903013	Rocking block seat	1	
	13	GB/T 93-1987	0908370014	Washer 10	2	
	14	GB/T 70.1-2000	0908240072	Screw M10X25	2	
	15	RY20S.6.5-00	51030307009	L-pin	1	
	16	GB/T 93-1987	0908370003	Washer 4	1	
	17	GB/T 823-1988	0908280056	Screw M4X8	1	
	18	CDB2-F15DXF-O2	061304034	Multi-way valve	1	
		CDB2-F15DXF-O3	061304036	Multi-way valve	1	
		CDB2-F15DXF-O4	061304039	Multi-way valve	1	
	19	TM1704	060907022	Travel switch	AR	
	20	GB/T 889.1-2000	0908010002	Nut M4	AR	
	21	GB/T 818-2000	0908280029	Screw M4*30	AR	
	22	1572400002a	31050905004	Mounting seat	AR	
	23		061409033	Dust cover 6048-10780	AR	

6.00		Oil tank assembly				
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	AMX.2.2-00	0904110011	Cover	1	
	2	CPD15W.3-02		Oil pointer	1	
	3	FBT15-MINI.16.02-00	51030307074	Cover	1	
	4	GB/T 70.1	0908240024	Screw M6X20	8	
	5	GB/T 93	0908370007	Washer 6	8	
...	6	FBT15-MINI.16-01	0904990163	Paper pad	1	
	7	WU-63X100-J	061307002	Filter	1	
	8	FBT15-MINI.16.01-00	51030307075	Oil tank	1	
	9	JB/T892	0902010009	Washer 20	1	
	10	JFA.1-01	0901120015	Plug M20	1	

7.00	Battery box cover assembly					
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	FBT15-MINI.17.02-00	51030307066	Battery box cover as sembly	1	
	2	GB/T 889.1	0908010007	Nut M8	4	
	3	RY20S.4.3.1-00	51030307076	Reaming support wel ding	2	
	4	RY20S.4.3-04	31050903029	Screw	2	
	5	GB/T 95-2002	0908350013	Washer8	4	
	6	GB/T 93-1987	0908370011	Washer 8	4	
	7	GB/T 5781-2000	0908420169	Screw M8*20	4	
	8	SC3	061406003	Seat	1	
	9	0909170008	0909170008	Puller 105*38	1	

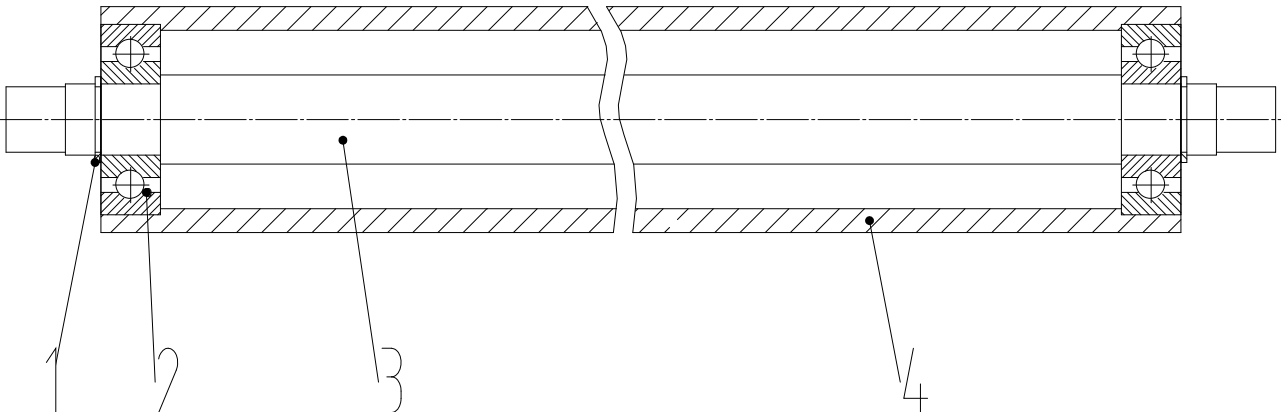
8.00	Tilt oil cylinder assembly				XXX (ERP No.)	
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1.	CPD10S.8-02-11	31050901039	Ring	1	
	2	DHS32	0902040019	dust ring	1	
	3	UN32E	0902030105	Seal 32X46X10	1	
	4	CPD10S.8-02-02	31050901085	Cover	2	
	5	CPD10S.8-02-03	31050901044	Guide sleeve	1	
	6	GB3452.3-88	0902050099	O-ring 58x2.65	1	
	7	Q/NRY 031—2015	0907040061	Bearing SF-1S32.30	1	
	8	CPD10S.8-02-04	0901010125	Piston rod	1	
	9	CPD10S.8-02.1-00	51030307077	Oil cylinder	1	
	10	GB3452.3-88	0902050058	O-ring 31.5x2.65	1	
	11	BST5915	0902080003	Guide ring 63x14.8	1	
	12	OSI 63	0902030052	Seal ring 63X53X6	2	
	13	158530-07	31050904072	Piston	1	
	14	GB95-1985	0908350049	Washer% ϕ 20	1	
	15	GB9459-88	0908020009	Nut M20x1.5	1	
	16	GB91-86	0908490017	Pin 3.2x35	1	
	17	Q/NRY 031-2015	0907040061	Bearing SF-1S32.30	1	
	18	CPD10S.8-02-10	31050901040	Stop block	1	
	19	GB3452.3-88	0902050098	O-ring 56x3.55	1	

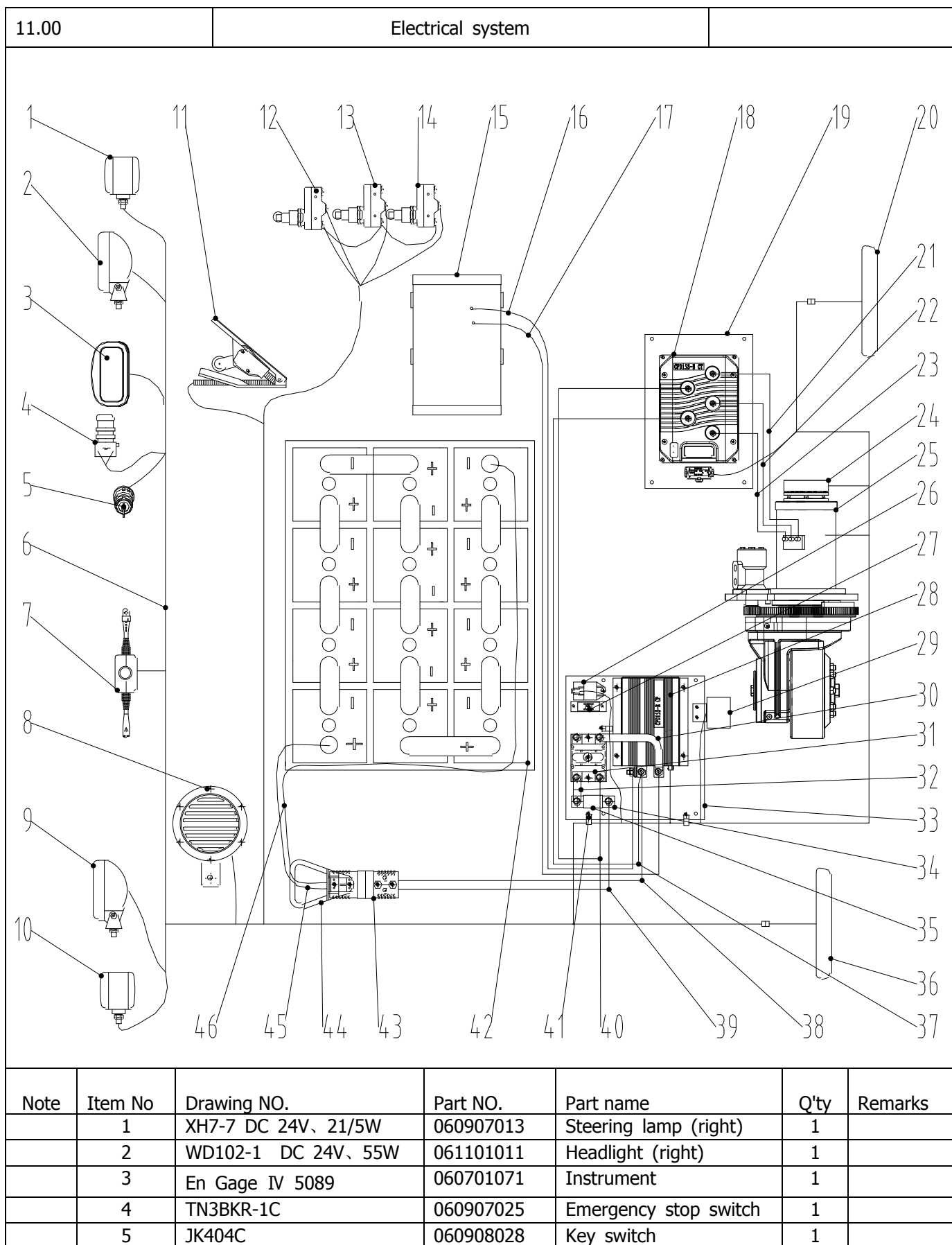
	20	GB78-85	0908250008	Screw M6x8	1	
	21	CPD10S.8-02-00	0902990006	Support ring	1	
	22	GB 893.2-86	0908310015	Circlip for hole 42	2	
	23	GE25ES	0907030279	Bearing	1	
	24	GB/T 5781-2000	0908420323	Screw M8*40/8.8	2	
	25	GB/T 93-1987	0908370011	Washer 8	2	
	26	GB/T 889.1-2000	0908010007	Nut M8	2	
	27	061309284	061309284	Joint	2	
Y- Separate illustration						

9.00Index)		Drive wheel assembly				
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	SOB-10-16N/DC-24V	060706008	Brake	1	
	2	GB/T 6173-2000	0908050017	Nut M14X1.5	2	
	3	GB1096-79A	0908460011	Key 6% $\times$ 6% $\times$ 18	1	
	4	XYQ-2.2EH	0603422	Drive motor	1	
	5	GB/T 3452.1-1992	0902050116	O-ring 75% $\times$ 2.65	1	

	6	GB 893.1-86	0908310025	Circlip for hole 62	1	
	7	GB/T 276-1994	0907030013	Bearing 6305/P5	1	
	8	GB/T 70.1-2000	0908240047	ScrewM8X20	20	
	9	GB/T 93-1987	0908370011	Washer 8	8	
	10	GB/T 13871-1992	0902060064	Oil seal 160X190X15	1	
	11	LDL280Y-01	31051101369	Mounting seat	1	
	12	LDL280Y.1-00	31051101376	Limit seat	1	
	13	LDL280Y-02	061404124	Gear ring	1	
	14	GB/T 70.1-2000	0908240080	ScrewM10X50	7	
	15	GB/T 93-1987	0908370014	Washer 10	11	
	16	LDL280Y-03	31051101372	Gear box	1	
	17	LDL280Y-04	31051101213	Bearing seat	1	
	18	GB/T 297-1994	0907020116	Bearing 32920//P5	2	
	19	LDL280Y-05	31051101370	Coil 1	1	
	20	LDL280Y-06	061404120	Shaft	1	
	21	GB/T 276-1994	0907030013	Bearing 6205/P5	1	
	22	GB/T 70.1-2000	0908240051	ScrewM8X35	2	
	23	LDL280Y-07	31051101371	Screw M30	1	
	24	23654-32041	0910991002	Screw M14X1.5-50	8	
	25	23654-34051	0910991000	Nut M14X1.5	8	
	26	LDL280Y-08	0905020146	280 wheel	1	
	27	GB/T 13871-1992	0902060030	Oil seal 70X90X10	1	
	28	LDL280Y-09	31051801006	Coil 2	1	
	29	GB/T 70.1-2000	0908240024	ScrewM6X20	5	
	30	GB/T 3452.1-1992	0902050256	O-ring 102%x2.65	1	
	31	GB/T 297-1994	0907020121	Bearing 30212/P5	1	
	32	GB/T 1096-1979	0908460063	Key C16%x50	1	
	33	LDL280Y-10	061404121	Gear	1	
	34	LDL280Y-11	061404125	Shaft	1	
	35	CBD10A.5-10	061309069	Plug	1	
	36	CBD10A.5-11	0540100	Magnet	1	
	37	JB982-77	0902010004	Washer 10	2	
	38	LDL280Y-12	31051101373	Spacer bush	1	
	39	GB/T 297-1994	0907030118	Bearing 30209/P5	1	
	40	LDL280Y-13	31051801008	Coil 3	1	
	41	LDL280Y-14	31051801009	Nut 1	1	
	42	GB/T 3452.1-1992	0902050119	O-ring 80%x2.65	1	
	43	LDL280Y-15	31051101209	Rear cover	1	
	44	GB/T 3452.1-1992	0902050253	O-ring 145%x2.65	1	
	45	GB/T 297-1994	0907020128	Bearing 30205/P5	2	
	46	LDL280Y-16	061404121	Gear	1	
	47	GB/T 1096-1979	0908460019	Key C8%x25	1	
	48	LDL280Y-17	31051801011	Nut 2	1	
	49	LDL280Y-18	061404119	2M68Z gear	1	
	50	GB/T 70.1-2000	0908240072	Screw M10X25	4	
	51	GB/T1973.3-2005	0903990088	Spring	1	
	52	LDL250R-16	0909160049	Spiracle plug	1	
	53	LDL250R-15	0909160050	Spiracle seat	1	

	54	GB/T308-2002	0907010004	Ball 3	1	
	55	LDL280Y-19	31051101174	Washer	1	
	56	GB/T 95-2002	0908350016	Washer10	4	
	57	GB/T5781-2000	0908420050	Screw M10%x35	4	
	58	LDL280Y-20	061404122	Gear	1	
	59	LDL280Y-21	31051101173	Screw	1	
	61	AM.2-15	0901120022	Hydraulic motor	2	
	62	GB/T 3452.1-1992	0902050019	Plug	2	

10.00	Roller assembly					
						
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	GB894.1	0908320006	Circlip for shaft 12	2	
	2	GB276	0907030086	Bearing 6201	2	
	3	FBT15-MINI.21-02	31050909004	Shaft	1	
	4	FBT15-MINI.21-01	31050909003	Roller	1	
Y- Separate illustration						



	6	FBT15-MINI.01.17-00	5207010231	Control wiring harness	1	
	7	JK804	060906010	Combined switch	1	
	8	DL 124F 24V	060810032	Horn	1	
	9	WD102-1 DC 24V、55W	060907013	Headlight (left)	1	
	10	XH7-7 DC 24V、21/5W	061101011	Steering lamp (left)	1	
	11	FZ3-532-133	060704000	Accelerator	1	
	12	TM1704	060907022	Lift switch	1	
	13	TM1704	060907022	Tilt switch	1	
	14	TM1704	060907022	Side shift switch	1	
	15	XQD-2.2H 2.2KW	0603025	Pump motor	1	
	16	FBT15-MINI.01.06-01	5207010232	Connector wire A1	1	
	17	FBT15-MINI.01.06-02	5207010233	Connector wire D2	1	
	18	1234-2371	0604430	Controller	1	
	19	FBT15-MINI.01.02-01	31050909007	Baseboard	1	
	20	776.05.2400.02	061101031	Tail lamp24V (right)	1	
	21	FBT15-MINI.01.06-01	5207010232	Connector wireU	1	
	22	FBT15-MINI.01.06-02	5207010233	Connector wireV	1	
	23	FBT15-MINI.01.06-03	5207010234	Connector wireW	1	
	24	10-A DC24V 30W 16Nm	060706008	Solenoid brake	1	
	25	XYQ-2.2H	0603082	Drive motor	1	
	26	SG152-24V	060806002	Flasher	1	
	27	RT14-20 Φ10X38 10A	060806031	Fuse holder	1	
	28	1253C-4401	0604436	Controller	1	
	29	DJB-24B	060810001	Buzzer	1	
	30	FBT15-MINI.01.01-04C	31050909009	PB+ connecting plate	1	
	31	ZJQ-424	060703067	Contacto	1	
	32	FB20-D.E.01-2	060710111	Connecting plate	1	
	33	FBT15-MINI.01.01-01	31050909008	Baseboard	1	
	34	FUJ-01	060805040	Fuse support	1	
	35	DC150V 300A	060806012	Fuse	1	
	36	776.05.2400.02	061101031	Tail lamp 24V (right)	1	
	37	FBT15-MINI.01.02-05	5207010235	TB- Connector wire	3	
	38	FBT15-MINI.01.04-04	5207010236	Connector wire CZ-	1	
	39	FBT15-MINI.01.04-03	5207010237	Connector wire CZ+	1	
	40	FBT15-MINI.01.02-03	5207010238	TB+ Connector wire	1	
	41	835.05.0000.04	061004046	Fixed buckle ACC-3-B	1	
	42		0605016	Storage battery 24V 32 0Ah	1	
	43	REMA 175A	060809025	Connector	2	
	44	826.03.0000.02	060809004	Puller 78298-00/175A	1	
	45	FBT15-MINI.01.04-01	5207010239	Lead wire +	1	
	46	FBT15-MINI.01.04-02	5207010240	Lead wire -	1	
	47	CZC5-40A/24	0606026	Outer charger 40A/24V	1	

12.00	Hydraulic system					
Note	Item No	Drawing NO.	Part NO.	Part name	Q'ty	Remarks
	1	JB/T892	0902010009	Washer 20	6	
	2	JB/T892	0902010005	Washer 12	2	
	3	RY20S.12-02	061318223	Joint	2	
	4	1577607000a	061309127	Assembly	1	
	5	CPD20SA-16.01-01	061309229	Joint	2	
	6	CQD10A.15-35	061318163	Joint	2	
	7	3087600007	061317174	Hose	1	
	8	CPD10S-16.08-04	061313037	Hose	1	

	9	CQD15L.3-04	061314084	Hose	1	
	10	CQDH10A-070004	061314101	Hose	1	
	11	CQDH10A-070003/CSD04.7-15	061314100 (CQDH10A-070003) 061323016 (CSD04.7-15)	Hose	1	
	12	1577611000A	061309129	Joint	1	
	13	CBFTW-F304ALB	061305038	Pump	1	
	14	JB/T892	0902010008	Washer 18	1	
	15	CPD10S.8-09	061309085	Joint	1	
	16	1547600002	061318267	Hose	2	
	17	1577610000A	061309128	Joint	1	
	18	BZZ5-E63BA	061303032	Steering gear	1	
	19	RY20S.12-03	310601060	Hose	1	
	20	FBT15-MINI.02-01	310601061	Hose	1	
	21	15047600001A	061317006	Hose	2	
	22	CPD10S.02-02	310601062	Hose	1	
	23	CPD10S.8-03	061309084	Joint	2	
	24	BMR-80	061302002	Hydraulic mot or	1	
	25	JB/T892	0902010006	Washer 14	2	
	26	1QL-14	061309020	Joint	2	
	27	20791-14-04	061309075	Joint core	2	
	28	CQD10A.15-35	061318163	Joint	2	
	29	CPD10S.8-06A-02	061309226	Joint	4	
	30	1547600001	061318268	Hose	2	
	31	JB/ZQ3777	061409014	Pipe clamp 40	2	
	32	JB/ZQ3777	0526165	Pipe clamp 30	2	
	33	JB/ZQ3777	0526165	Pipe clamp 30	2	
	34	FBT15-MINI.02-02	310601063	Hose8	1	

Publisher:
Starke Material Handling Group

Edition:
01

Publication date:
2017-04



STARKE MATERIAL HANDLING GROUP

402 Allanburg Road · Thorold, ON L2V 1A4 · Canada
TOLL FREE 877-435-4352

www.starkeforklift.com • info@starkeforklift.com

