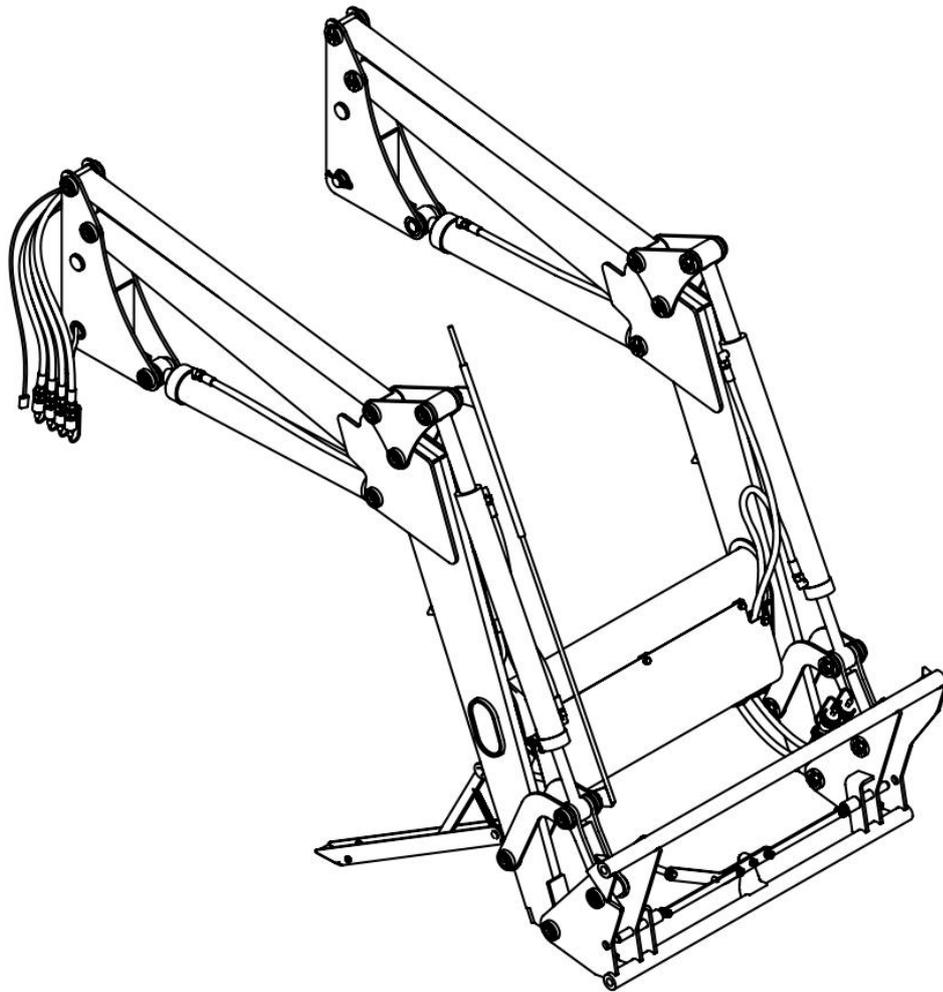


TZ04D Tractor front loader

OPERATING

MANUAL



CONTENTS

1 Introduction	2
1.1 Using the operating manual.....	2
1.2 Warning symbols	2
1.3 Intended use of the front loader	3
1.4 Description of the front loader	3
1.5 Transportation.....	4
2 Safety instructions	4
2.1 Before work.	4
2.2 Driving on roads.....	5
2.3 When working.....	6
2.4 After work.....	8
2.5 Maintenance.....	9
2.6 Safety stickers.....	10
3 Front loader	10
3.1 Preparations for use.....	10
3.2 Operation of the front loader.....	11
3.3 Attachment and removal of the front loader	11
3.4 Swinging the support leg in and out.....	14
3.5 Attachment and removal of Implements	15
4 Implements	16
5 Maintenance	17
5.1 Hydraulic system.....	17
5.2 Bearing points	17
5.3 Threaded connections	18
5.4 Troubleshooting	19
6 Parts catalogue	20

1 Introduction

Dear customer,

We thank you for purchasing a front loader from our company.

To ensure long-term satisfaction with this product please read this manual carefully and familiarize yourself with its contents.

Thank you.

1.1 Using the operating manual



Danger

Read the entire operating manual before using the front loader.

Operation and service of the front loader are described in this operating manual.

If you have questions concerning the operating manual, contact your dealer.

The operator must have right license, know how to use a front loader and tractor, must operate and maintain as this operating manual shows.

We reserve the right to make changes in the design and specifications of the loader and its components in the course of further technical development. All the changes will be showed in new operating manual.

1.2 Warning symbols

Warning are used in this manual to protect you from injury and to protect the machine from damage.

Always read and comply with these warnings.

Warnings are introduced with words “**Danger**” or “**Cation**”

Danger

If the warning is ignored, there is danger of death, severe injury or significant machine damage.

Caution

If the warning is ignored, there is danger of injury or machine damage.

1.3 Intended use of the front loader

TZ series front loader should be attached to those tractors for which our company designed it to be attached, and offered by our company. TZ series has been built for farm, garden, warehouse and forest working, to loader and transport corp, soil, dinas, coal, waste and other loose materials. And also it can be used for dozing, shoveling and packing.

1.4 Description of the front loader

TZ series front loader is a compact loading device that is mounted on a 4-wheel drive tractor, activated via hydraulic cylinders, can achieve the narrow site operations flexibly.

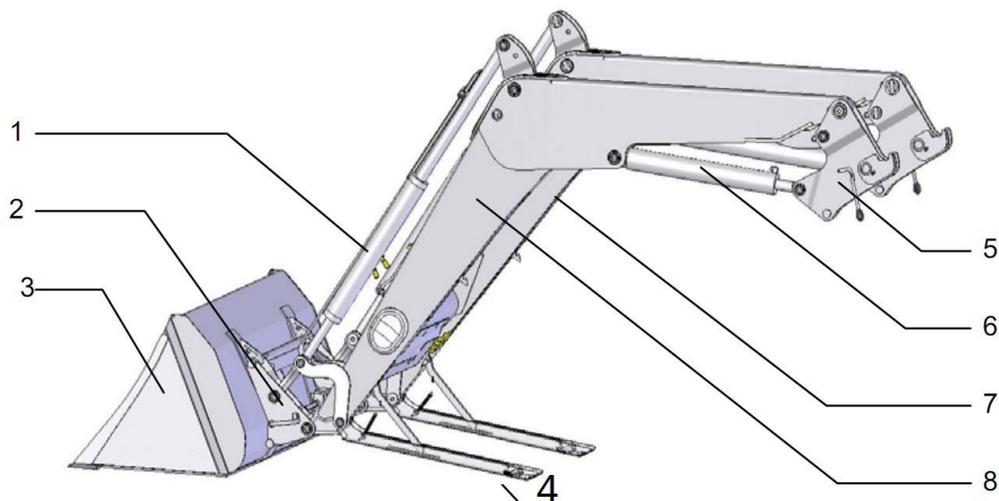
The Front Loader is powered by the tractor's hydraulic system, and is controlled from the driver's seat.

The support legs ensure that the detached Front Loader is stable.

The implements are connected to the Front Loader via the change frame. The change frame enables fast and safe implement change.

The Front Loader consists of:

1. Implement cylinder
2. Change frame
3. Implement (e.g. bucket)
4. Support legs
5. Column
6. Lifting cylinders
7. Hydraulic pipes
8. Lifting arm (Parts that are permanently mounted on the tractor)



1.5 Transportation

The machine is wrapped by the iron frame, can be moved by forklift and long distance transported easily.

2 Safety instructions

2.1 Before work

Danger.

- **Check the tractor and Front loader before work.**
- **Ensure that all components are firmly attached.**
- **Repair or replace damaged, excessively worn, or missing parts.**
- **Make all the required adjustments on the tractor and on the Front End Loader.**
- **Ensure that all components are lubricated regularly (sec. 5.2).**

Caution.

- **Arrest the hydraulics when driving on the road, or parking the tractor.**

Danger.

- **Tractor and Front End Loader work with hydraulic oil that is under high pressure in operation.**
- **Check all hydraulic components and keep them in good condition.**
- **Ensure that hydraulic component-particularly hoses-cannot be damaged by moving parts.**

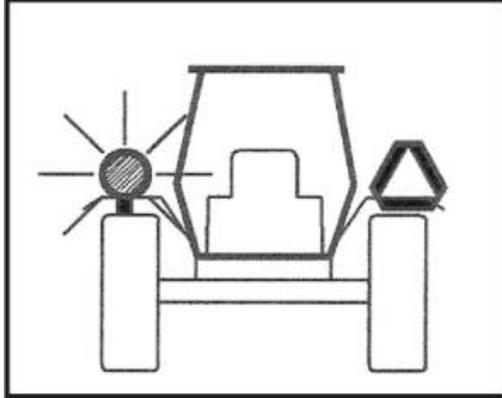
Caution.

- **If you use the front loader at low outdoor temperatures, bring the hydraulic system up to working temperature beforehand by completely extending and retracting all hydraulic cylinders several times.**

Danger.

- **Ensure that the front tyres are inflated to the prescribed pressure for load operation as specified in the operating manual of the tractor.**

2.2 Driving on roads



Danger.

Ensure that the lights and reflectors of the tractor are not covered by the Front Loader when driving on public roads.

Danger.

Do not drive on public roads with loaded implement.

Danger.

The implement must be at least 2 meters above the road surface.

Comply with country-specific guidelines for positioning the Front Loader when driving on roads.

The horizontal distance between the front end of the Front Loader and the middle of the steering wheel should not be more than 3.5 m. It may be necessary to remove the implement.

Danger.

If necessary, reduce the lift height when driving under bridges or overhead lines.

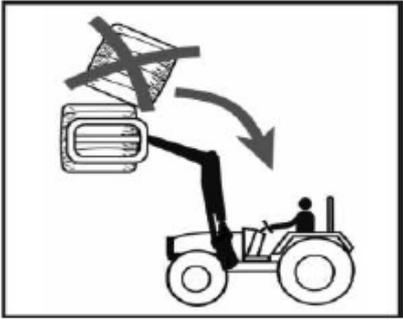
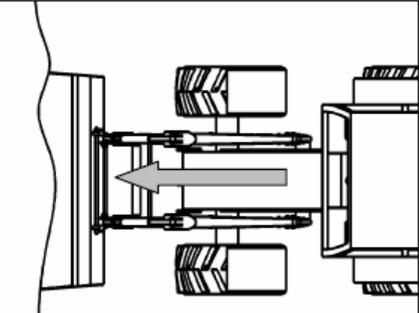
Danger.

The maximum speed with Front Loader and attached implement is 25 km/h for road driving and 10 km/h for load work.

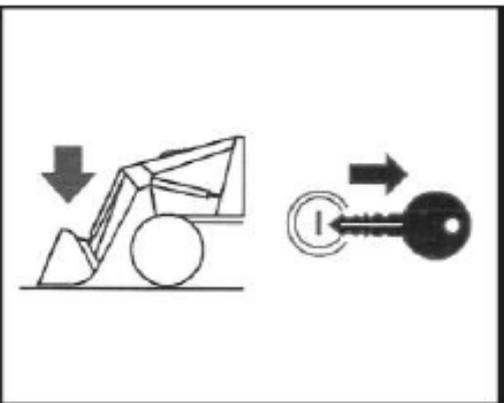
2.3 When working

 An illustration showing a front loader with its bucket raised, positioned near a utility pole with power lines. Lightning bolts are depicted striking the lines, indicating a risk of electrocution.	<p>Danger</p> <p>Familiarize yourself with the work area and the terrain. Keep a safe distance away from electrical lines.</p> <p>Only execute Front Loader work if the visibility conditions are adequate. Ensure that the work area is adequately illuminated. Keep the cab windshield clean.</p>
 Two warning signs. The top sign is a triangular warning sign showing a person being struck by a falling load. The bottom sign is a pictorial warning sign showing a front loader with a raised bucket and a person lying on the ground nearby, indicating a danger zone.	<p>Danger</p> <p>Do not position yourself in the vicinity of raised Front End Loaders or in the vicinity of an unsecured load.</p> <p>Ensure that no one is positioned in the danger zone of the Front Loader.</p>
 A pictorial warning sign showing a person running, indicating a hazard of slipping or tripping.	<p>Danger</p> <p>Constantly observe your work area. Ensure that people or animals do not obstruct the work area.</p>
 A prohibition sign consisting of a circle with a diagonal slash over a pictorial warning sign of a person sitting on the ground next to a front loader, indicating that the machine should not be operated from the ground.	<p>Danger</p> <p>Only control the machine from the driver's seat</p>

	<p>Danger. Do not lift or carry persons.</p>
	<p>Danger. Use extreme caution when working on a slope. Do not drive transverse to the slope with a raised load. The danger exists that you and the tractor will tip over.</p>
	<p>Danger. When driving on curves lower the speed and the load.</p> <p>Danger. Do not drive the tractor in a jerky manner if the Front Loader is in the highest load position and fully loaded.</p> <p>Danger. Check the implement tilt when lifting the Front Loader. Raised loads can fall on you if you scoop the implement too far.</p>

	<p>Danger.</p> <p>Never stack multiple loads (bales, pallets) on top of each other. The upper loads can fall on you.</p> <p>Special implements, such as baling implements or pallet forks are designed in such a manner that they prevent loads from falling onto the tractor.</p>
	<p>Danger.</p> <p>Check the implement tilt when lifting the Front End Loader.</p> <p>Raised loads can fall on you if you scoop the implement too far.</p>
	<p>Caution.</p> <p>Drive straight into the load material. Do not execute any steering movement in this process.</p>

2.4 After work

	<p>Danger.</p> <p>The following applies when you leave the driver seat:</p> <ul style="list-style-type: none"> ● Lower the Front Loader onto the ground. ● Engage the parking brake. ● Move the gear shift into park position ● Turn off the engine. <p>Remove the key</p>
---	---

Danger

Comply with the following when removing the Front End Loader:

Only park the Front End Loader on a stable substrate and with attached implement.

Ensure that the support legs are securely positioned.

Only the operator should attach and remove the Front End Loader and the implements.

2.5 Maintenance



Danger.

Before starting maintenance work, put on your protective equipment (protective overalls, gloves, protective goggles, safety footwear)

Danger.

Lower the Front Loader onto the ground.

Depressurize the hydraulics and the hydraulic connections.

Leave the Front Loader coupled to the tractor.

Let the machine temperature cool to below 55°C.

Ensure good lighting.

Danger.

NEVER stand between the front of the tractor and the transverse pipe of the Front Loader.

Never repair the Front Loader with raised Front Loader.

Lower the Front Loader onto the ground.

Danger.

Never search for leaks with your fingers.

Use suitable aids (a piece of wood or cardboard).

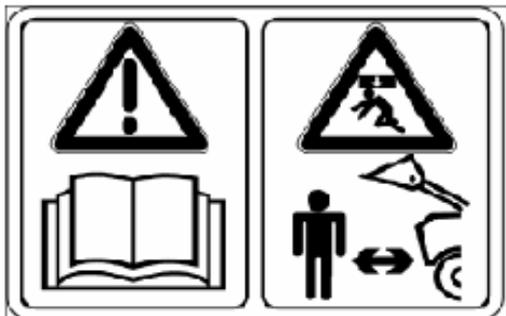
Hydraulic oil escaping under high pressure can penetrate the skin and cause severe injury.

If injured, consult a physician immediately.

2.6 Safety sticker



Danger.
Only park the Front Loader with attached implement(e.g. bucket).



Danger.
Ensure that no one is positioned in the work area of the Front Loader.

3 Front Loader

Comply with the safety instructions in section 2 for all activities with the Front Loader.

3.1 Preparations for use

The Front Loader is delivered completely assembled and ready for connection.

Danger

Hydraulic lines and threaded connections that hydraulically connect the Front End Loader and tractor are loosely pre-mounted in the factory.

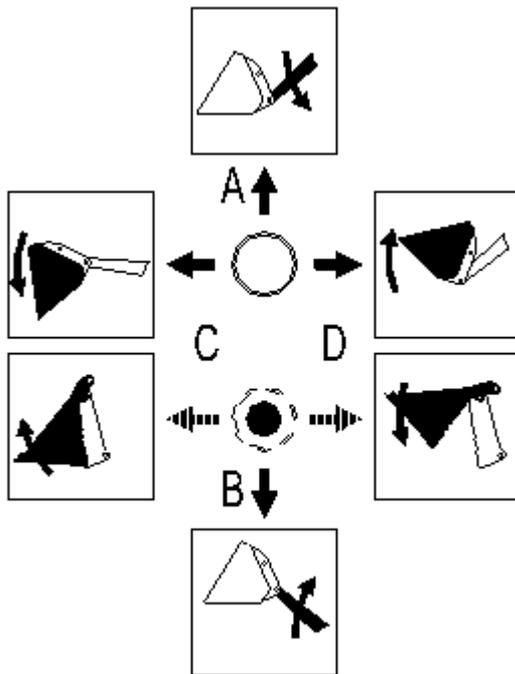
After final routing of the lines firmly tighten all threaded connections. After 5 operating hours retighten all threaded unions.

The required tightening torques is specified in section 5.3.

Caution

If equipment is installed on the tractor that could collide with the Front End Loader or the implement, then remove this equipment.

3.2 Operation of the Front Loader



- A...Front loader-lowering
- B...Front loader-lifting
- C...Implement-dumping
- D...Implement-scooping

Lowering:

Move the operating lever forward to lower the Front Loader (A).

Lifting:

Pull the operating lever back to lift the Front Loader (B).

Dumping:

Move the operating lever to the right to dump the implement (C).

Scooping:

Move the operating lever to the left to scoop the implement (D).

3.3 Attachment and removal of the Front Loader

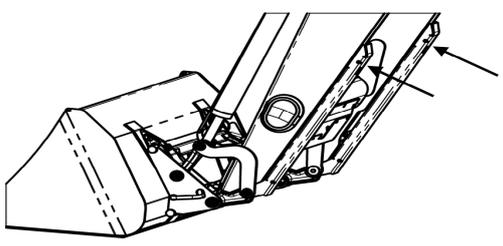
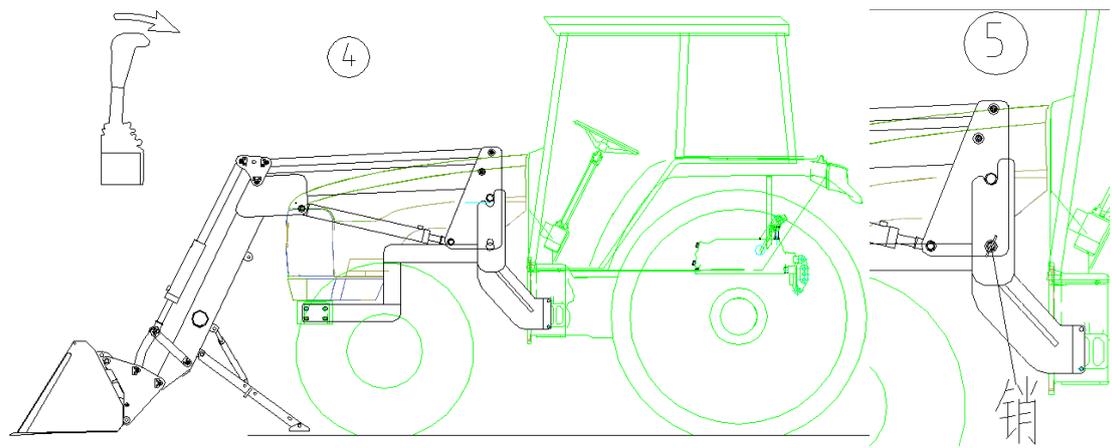
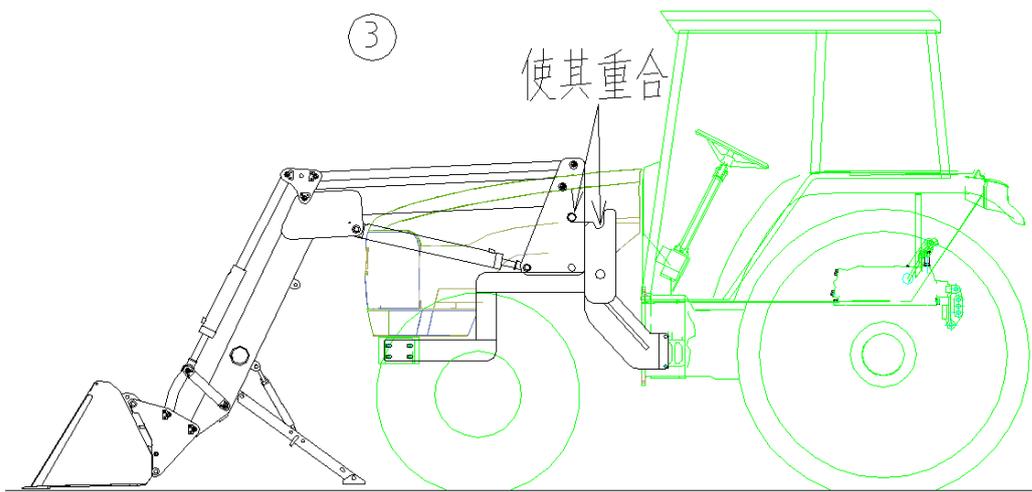
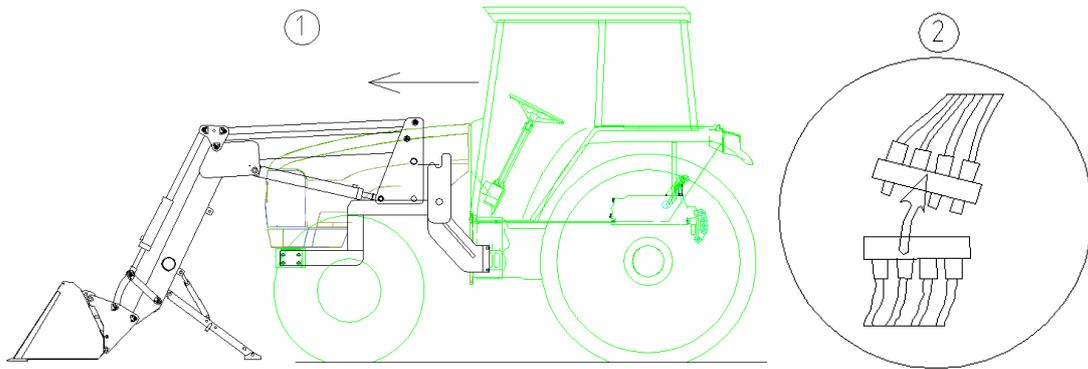
The Front Loader is connected to the add-on parts bolted onto the tractor via a wedge locking mechanism. It takes one person about 2 to 4 minutes to attach or remove the Front Loader.

Attachment:

Only the operator should attach and detach the Front End Loader.

Replace the sticker if it is damaged or lost.

- 1、 Move tractor forward,make it align with the front loader.
- 2、 Depressurize the hydraulic system and connect hydraulic lines.
- 3、 Move tractor forward while moving the joysticks left and right,make the steel rod of loader column fit into U-shape groove of the add-on part.
- 4、 Pull back the joystick,extend the arm cylinders to lift up the arm.
- 5、 Put the pins into the holes to make loader and add-on parts together.
- 6、 Swinging in the support leg,done.



Removal:



Danger .

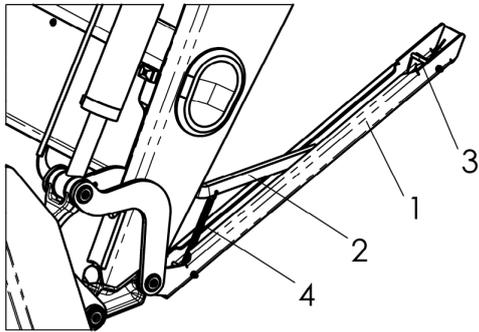
Set the front loader only with implement (e.g. bucket) attached. Otherwise the front loader could tip over.

Ensure that you park on a stable substrate.

Reverse the steps of attachment of front loader, then you can remove it:

- 1、 Engage the parking brake and lower the Front Loader onto the stable ground.
- 2、 Take out the pins.
- 3、 Swing the support legs downward, and plug into the pins to the support legs.
- 4、 Push the joystick slowly, make the arm separated with add-on part.
- 5、 Disconnect the hydraulic lines
- 6、 Drive the tractor in reverse out of the front loader.

3.4 Swinging the support legs in and out

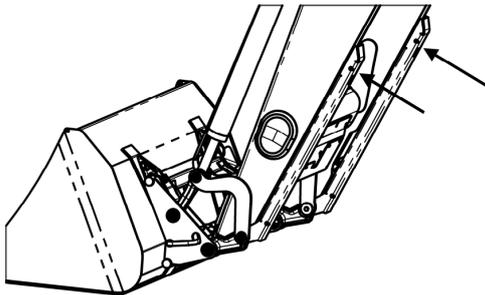


Swinging out:

- 1、 Support leg
- 2、 Arrest
- 3、 Catch
- 4、 Spring

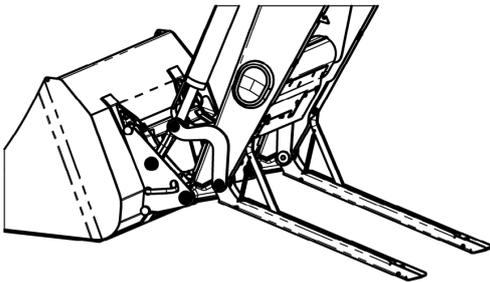
Danger!

Ensure that you park on a stable substrate.

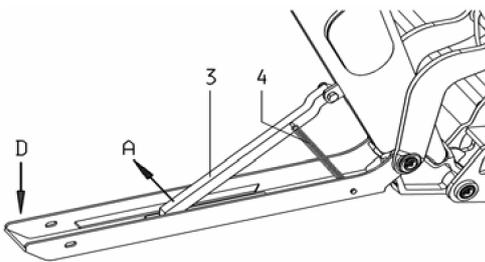


Engage the parking brake and lower the front loader onto the ground without pressure.

Press the catch in the direction of the arrow. So, the stand is unlocked from the arm of the loader.



Swing the support leg down until it reaches the ground.



Swinging in:

Pull the arrest with one hand against the force of the spring in the direction indicated by the arrow A.

In this process simultaneously push the support leg in the direction of arrow D, so that the support strut does not engage in the lock area.



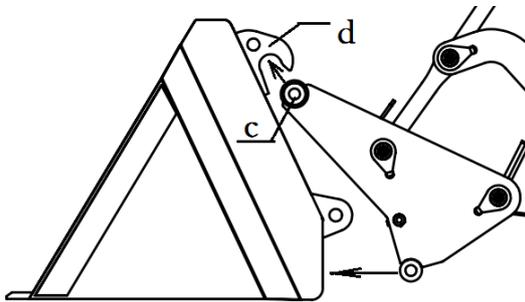
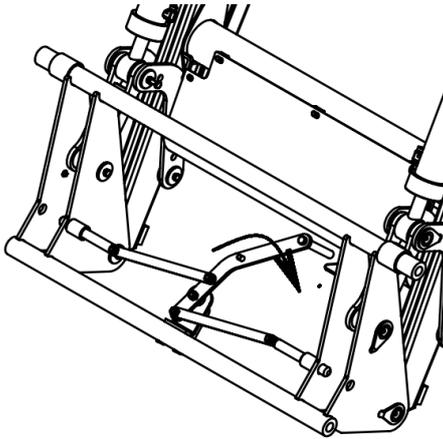
Danger!

Danger of crushing injury when swinging in the support leg.

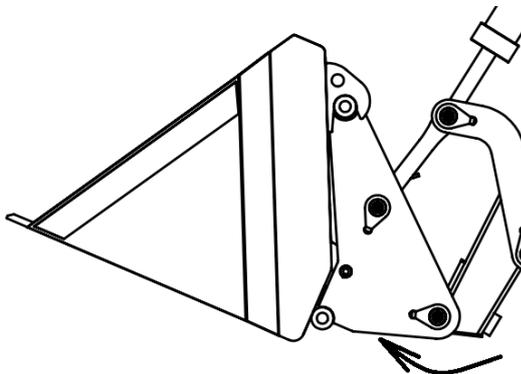
3.5 Attachment and removal of the implements

Attachment:

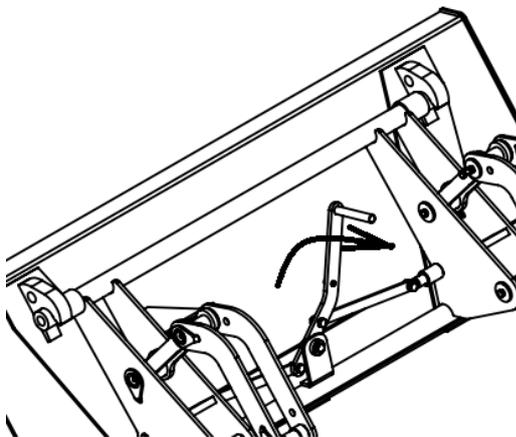
Pull the handle according to the direction shown in the figure to make the coupling pin come out.



Operating hydraulic valve to make the change frame turn forward (implement cylinder extend). Move tractor forward. Operating hydraulic valve to make the change frame go up (loader arm lifting up), make the steel rod c on change frame and bucket hook d connecting firmly.



Operating hydraulic valve to make the change frame turn up, till the change frame lower steel rod meet the bucket limit surface.



Pull the handle according to the direction shown in the figure to make the coupling pin shaft penetrate into the hook hole under the bucket.

Removal:

Reverse the operation steps as above, the bucket removed.

4 Implements

The operating manual for the different implements is not a component of this operating manual.

Danger.

Incorrectly designed implements from other manufacturers can damage the front loader.

Danger

Only use implement sizes that are approved for the size of your front loader. Otherwise tractor, front loader, or implement can be damaged.

Ask your dealer about the suitable implement size.

5 Maintenance

For maintenance work follow the instructions provided in the safety information in section 2.7.

The owner or the user of the front loader is responsible for regular maintenance.

Clean the Front End Loader before performing maintenance tasks. This applies particularly when maintaining the hydraulic system.

Danger.

Only use spare parts that are approved by the manufacturer.

The maintenance intervals are specified in effective operating hours of the tractor with Front End Loader. The maintenance intervals apply for normal work conditions. Shorten the maintenance intervals if there are difficult work conditions.

5.1 Hydraulic system

The instructions and guidelines provided for the tractor hydraulics apply for maintenance of the hydraulic system.

Danger.

Ensure cleanliness when working on the hydraulic system. Clean hydraulic oil is required for trouble-free function.

Danger.

Check the hydraulic oil level of the tractor on level ground and with lowered implement.

Only use oil as specified by the operating manual of the tractor.

Danger.

Check hydraulic lines and connections for wear and leaks.

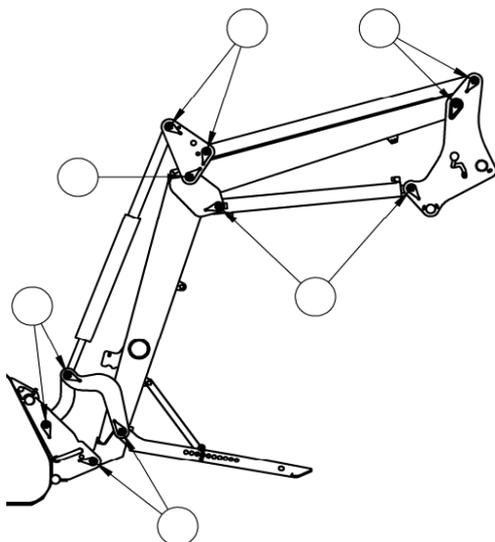
Replace worn or leaky hydraulic lines.

Danger.

Repair or replace leaky hydraulic cylinders.

You will need special tools to repair the hydraulic cylinders.

Have defective cylinders repaired by your authorized dealer.



5.2 Bearing points

Caution.

Lubricate all bearing points after every 20 operating hours.

Also lubricate the bearing points on the implements.

Prior to lubricating, of fload the bearing points by lowering the implement to the ground.

5.3 Threaded connections

Danger.

Re-tighten all threaded connections after 5 operating hours.

Danger.

Check the threaded connections for firm seat every additional 100 operating hours.

Re-tighten threaded connections as needed.

Screw tightening torque						
Screw	Class			Screw	Class	
	8.8	10.9			8.8	10.9
	Nm	Nm			Nm	Nm
M8	23	33		M20	380	530
M8x1	25	35		M20x2	400	560
M10	46	65		M20x1.5	420	590
M10x1.5	59	80				
M10x1.25	49	69		M22	510	720
M12	80	110		M22x2	540	750
M12x1.5	84	118		M22x1.5	560	790
M12x1.25	88	123		M24	630	890
M14	130	180		M24x2	680	950
M14x1.5	138	190		M27	930	1310
M16	190	270		M27x2	995	1400
M16x1.5	210	290		M30	1260	1770
M18	270	380		M30x2	1370	1930
M18x2	280	400				
M18x1,5	300	420				

5.4 Trouble shooting

Faults on the front loader are frequently caused by factors that are not due to a front loader malfunction. Many problems can be avoided through regular maintenance.

1) Front loader and implement move too slowly or do not move at all.

1、 Oil seal of cylinder damaged	1、 Check and change oil seal
2、 Oil leak in pipeline	2、 Check and repair
3、 Working pump leak	3、 Check and change new pump
4 、 Safety valve' s improperly adjusted,system pressure too low	4、 Adjust system pressure to rated value
5 、 Hydraulic pump takes in air or Hydraulic filter blocked	5、 Clean the filter or change oil pickup pipe.

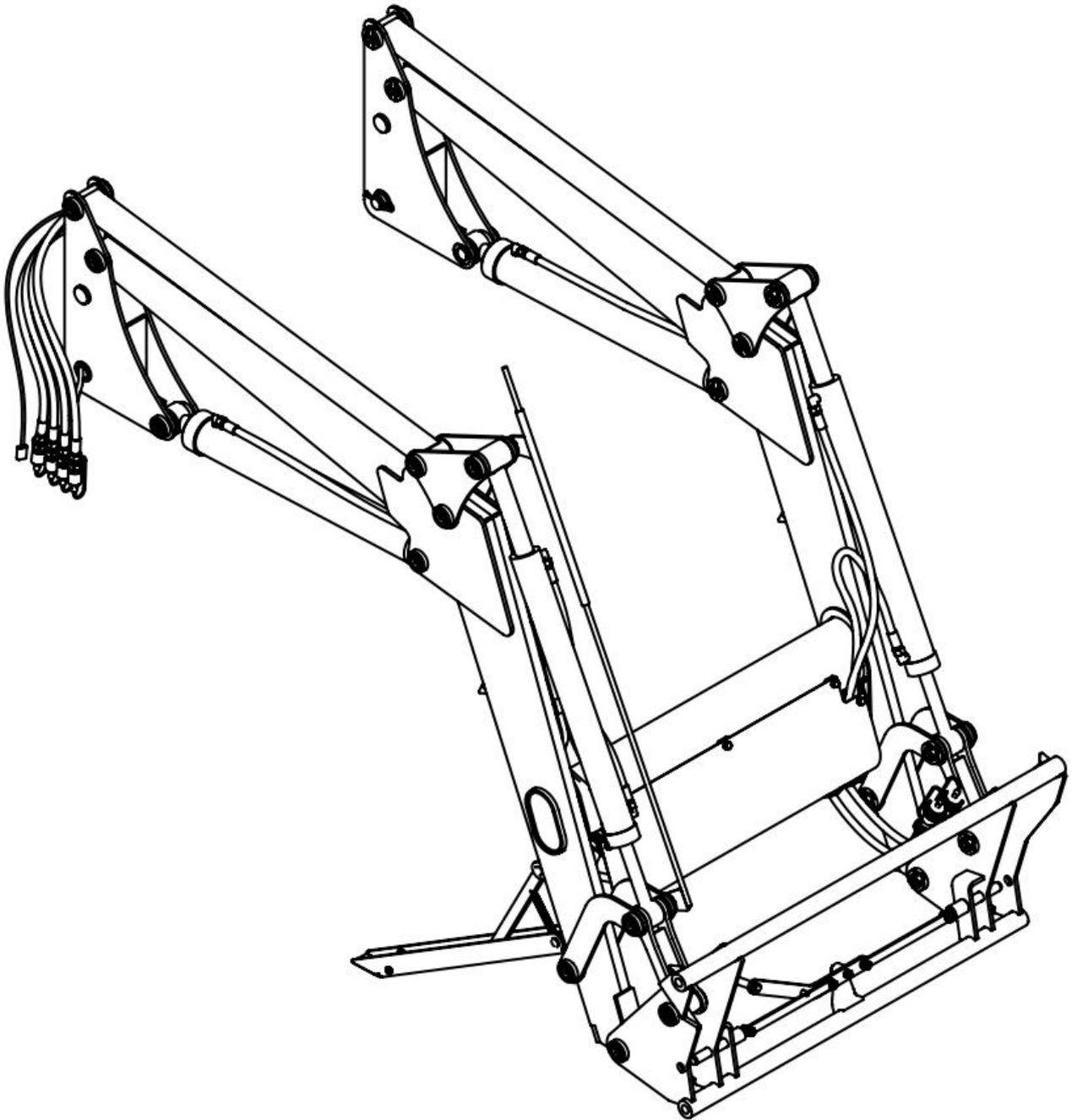
2) Oil pump suction empty or Indicated by the foamy hydraulic fluid.

1、 Oil level too low	1、 Add oil till specified level
2、 Oil filter blocked	2、 Clean oil filter
3、 Pump damaged	3、 Check,repair or change oil pump
4、 Hydraulic pump takes in air or oil seal damaged	4、 Check,repair or change oil
5、 Bad oil or oil go bad	5、 Change oil as required

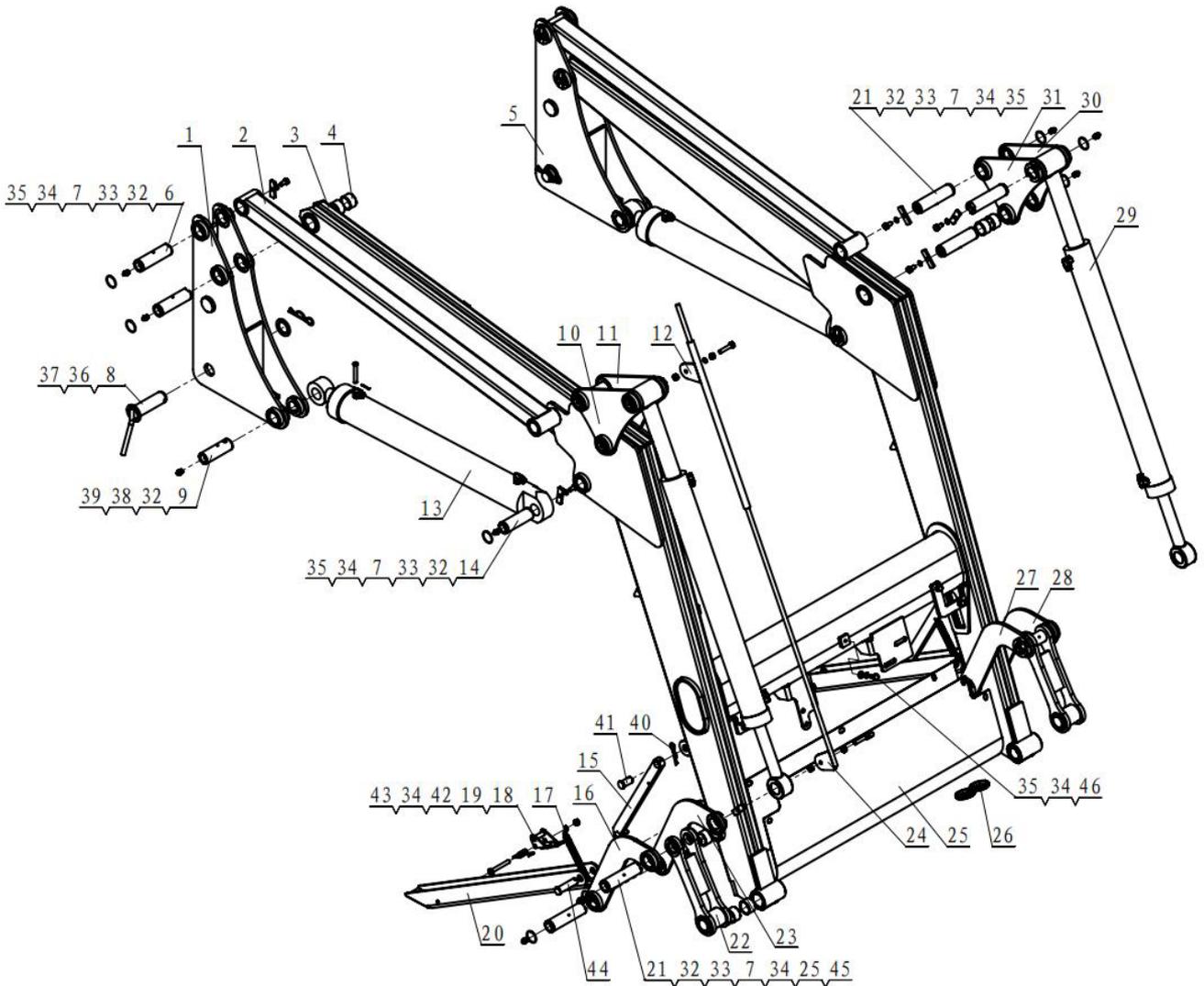
3) Oil temperature too high

1、 Over-work for too long time	1、 Stop working and cool it
2、 System pressure adjusted too high	2、 Adjust system pressure as required
3、 Less of oil	3、 Add oil as required
4、 Hydraulic pump damaged	4、 Check,repair or change pump
5、 Pipeline blocked	5、 Check,clean or change

6 Parts catalogue



Beam

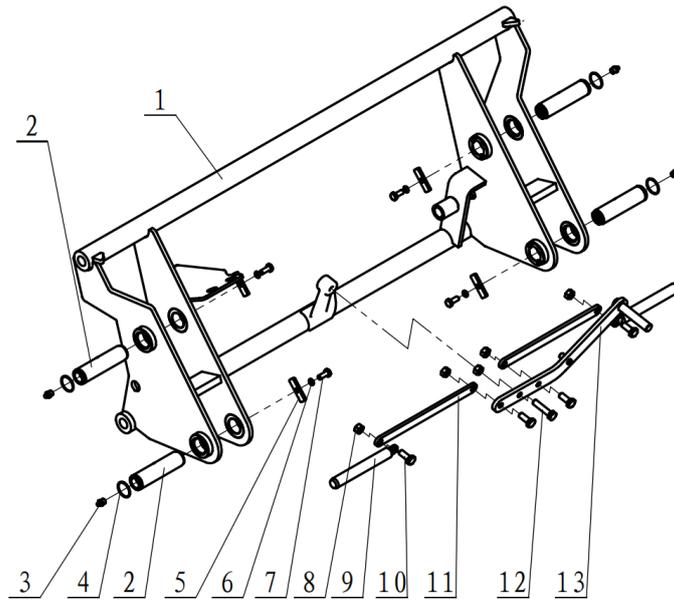


序号 No.	图号 Code	名称 Description	数量 Quantity
1	FQ40. 2. 05C	右动臂后座 Right rear seat of lifting arm	1
2	FQ40. 2. 03	平衡杆 Pull rod	2
3	FQ40. 2. 01E	动臂 Lifting arm	1
4	30X35X20	复合套 Composite sleeve	16
5	FQ40. 2. 05D	左动臂后座 Left rear seat of lifting arm	1
6	FQ40. 2C-111	销轴二 Pin II	4
7	FQ40. 2C-121	挡板 Baffle	16

8	FQ40. 2-104	快速挂接销 Fast link Pin	2
9	FQ40. 2C-113	动臂油缸下销轴 Lower pin Shaft of lifting arm	2
10	FQ40. 2. 40C	外三角板焊合一 Outer triangular plate welding I	1
11	FQ40. 2. 43C	内三角板焊合二 Inner triangular plate welding II	1
12	FQ30. 2. 31	套管 Casing	1
13	FQ40. 7. 01	动臂油缸 Lifting arm cylinder	2
14	FQ40. 2C-112	销轴三 Pin III	2
15	FQ40. 2. 11	撑杆 Strut	2
16	FQ40. 2. 31C	外弯板焊合二 Outer bend plate welding II	1
17	FQ40. 2-116	拉簧 Drag spring	2
18	FQ40. 2. 23	转板 Rotating plate	2
19	FQ40. 2-115	扭簧 Torsion spring	2
20	FQ40. 2. 04	支腿焊合 Outrigger welding	2
21	FQ40. 2C-110	销轴一 Pin I	10
22	FQ40. 2. 06	弯板 Bending board	2
23	FQ40. 2. 33C	内弯板焊合二 Inner bend plate welding II	1
24	FQ40. 2. 30	标杆焊合 Benchmark welding	1
25	FQ40. 7-101	护罩 Hood	1
26	FQ40. 2-111	橡胶垫 Rubber pad	2
27	FQ40. 2. 32C	内弯板焊合一 Inner bend plate welding I	1
28	FQ40. 2. 30C	外弯板焊合一 Outer bend plate welding I	1
29	FQ40. 7. 02	翻斗油缸 Rotating bucket cylinder	2
30	FQ40. 2. 41C	外三角板焊合二 Outer triangular plate welding II	1

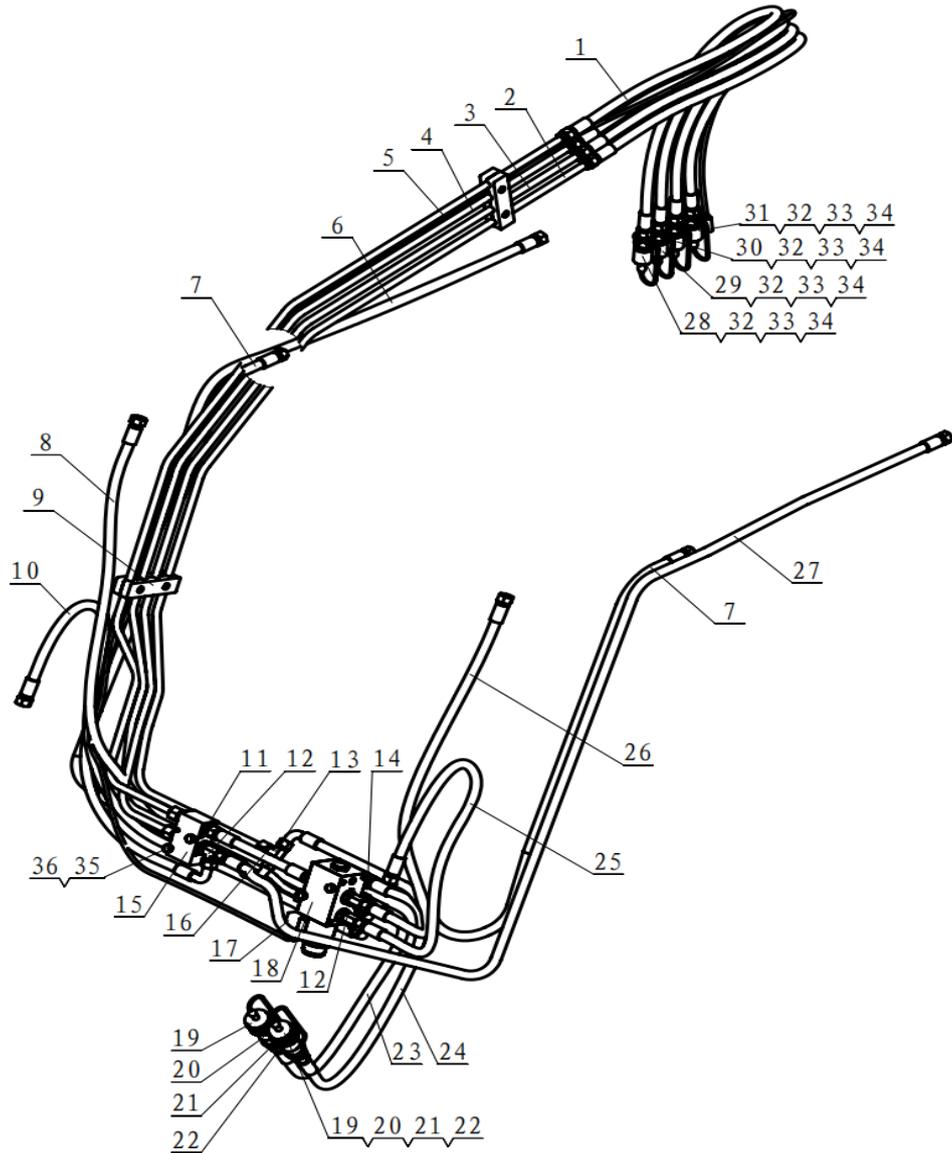
31	FQ40. 2. 42C	内三角板焊合一 Inner triangular plate welding I	1
32	GB/T1152-1985	油杯 M10X1 Oil cup M10X1	18
33	GB/T895. 2-1986-30	挡圈 30 Retaining rings 30	16
34	GB/T93-1987-8	垫圈 8 Washer 8	26
35	GB/T5783-2000	螺栓 M8X16 Bolt M8X16	22
36	GB/T97. 1-2002-30	垫圈 30 Washer 30	2
37	FQ40. 2-113	B 型销 B-pin	2
38	GB/T882-2008	支腿销轴 B8X55 Outrigger pin B8X55	2
39	GB/T91-2000-2×20	开口销 2×20 Cotter pin 2×20	2
40	FQ40. 2-114	B 型销 B-pin	4
41	GB/T882-2008	支腿销轴 B16X30 Outrigger pin B16X30	2
42	GB/T5783-2000	螺栓 M8X60 Bolt M8X60	2
43	GB/T6170-2000	螺母 M8 Nut M8	6
44	GB/T882-2008	支腿销轴 B16X60 Outrigger pin B16X60	2
45	GB/T5783-2000	螺栓 M8X40 Bolt M8X40	2
46	GB/T97. 1-2002-8	垫圈 8 Washer 8	8

Coupler



序号 No.	图号 Code	名称 Description	数量 Quantity
1	FQ40. 2. 02C	挂接框焊合 Coupler	1
2	FQ40. 2C-110	销轴一 Pin I	4
3	GB/T1152-1985	油杯 M10X1 Oil cup M10X1	4
4	GB/T895. 2-1986-30	挡圈 30 Retaining rings 30	4
5	FQ40. 2C-121	挡板 Baffle	4
6	GB/T93-1987-8	垫圈 8 Washer 8	4
7	GB/T5783-2000	螺栓 M8X16 Bolt M8X16	4
8	GB/T6170-2000	螺母 M10 Nut M10	5
9	FQ40. 2. 20	销轴焊合 Pin shaft	2
10	GB/T5783-2000	螺栓 M10X25 Bolt M10X25	4
11	FQ40. 2-120	连杆 Connecting plate	2
12	GB/T5783-2000	螺栓 M10X45 Bolt M10X45	1
13	FQ40. 2. 21	手柄焊合 Handle	1

Hydraulik Equipment

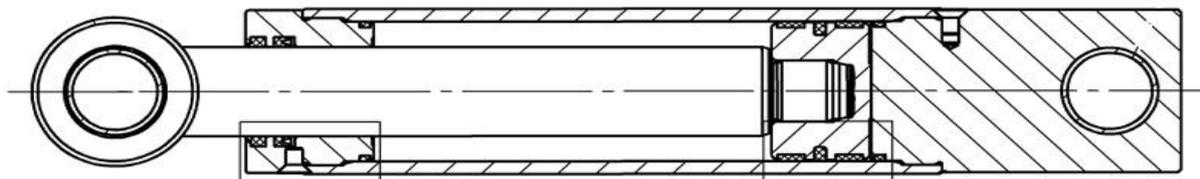


序号 No.	图号 Code	名称 Description	数量 Quantity
1	FQ40.7Y-121-1000	液压油管 Hydraulic hose	4
2	FQ40.7.03E	下硬管一 Hydraulic hard pipe	1
3	FQ40.7.04E	下硬管二 Hydraulic hard pipe	1
4	FQ40.7.05E	上硬管二 Hydraulic hard pipe	1
5	FQ40.7.06A	上硬管一 Hydraulic hard pipe	1
6	FQ40.7Y-128-1780	液压油管 Hydraulic hose	1

7	FQ40. 7Y-131-1320	液压油管 Hydraulic hose	2
8	FQ40. 7Y-122-1230	液压油管 Hydraulic hose	1
9	FQ40. 2-110	油管压板 Tubing pressure plate	2
10	FQ40. 7Y-127-1120	液压油管 Hydraulic hose	1
11	KTJT02	液压接头 Hydraulic connector	5
12	Y11	液压接头 Hydraulic connector	3
13	Y12	液压接头 Hydraulic connector	1
14	Y07	液压接头 Hydraulic connector	2
15	FQ40. 7. 23	溢流阀 Relief valve	1
16	FQ40. 7Y-130-215	液压油管 Hydraulic hose	1
17	FQ40. 7. 24-101	电磁阀线 Solenoid wire	1
18	FQ40. 7. 24	电磁阀 Solenoid valve	1
19	FQ30. 7. 20-123	母护帽-黄 Rubber cap-F-YL	2
20	KHJT-12-F	母接头 Quick change female connector	2
21	GB/T 6173-2000- M18×1.5	螺母 M18X1.5 Nut M18X1.5	2
22	H04	液压接头 Hydraulic connector	2
23	FQ40. 7Y-133-750	液压油管 Hydraulic hose	1
24	FQ40. 7Y-133-800	液压油管 Hydraulic hose	1
25	FQ40. 7Y-135-700	液压油管 Hydraulic hose	1
26	FQ40. 7Y-134-810	液压油管 Hydraulic hose	1
27	FQ40. 7Y-129-2000	液压油管 Hydraulic hose	1
28	FQ30. 7. 20-113	公护帽-蓝 Rubber cap-M-BU	1
29	FQ30. 7. 20-111	公护帽-黑 Rubber cap-M-BK	1

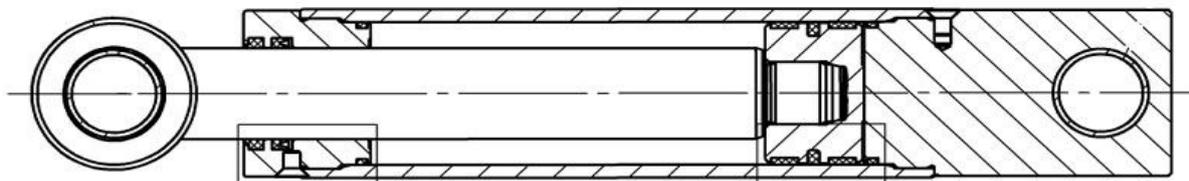
30	FQ30. 7. 20-114	公护帽-紫 Rubber cap-M-PL	1
31	FQ30. 7. 20-112	公护帽-红 Rubber cap-M-RD	1
32	KHJT-12-M	公接头 Quick change male connector	4
33	KTJT01	液压接头 Hydraulic connector	4
34	IS011926-16. 36X2. 21	O 型圈 16. 36X2. 21 O-ring 16. 36X2. 21	14
35	GB/T5783-2000	螺栓 M8X16 Bolt M8X16	4
36	GB/T93-1987-8	垫圈 8 Washer 8	4

Hydraulic cylinder



FQ40. 7. 01

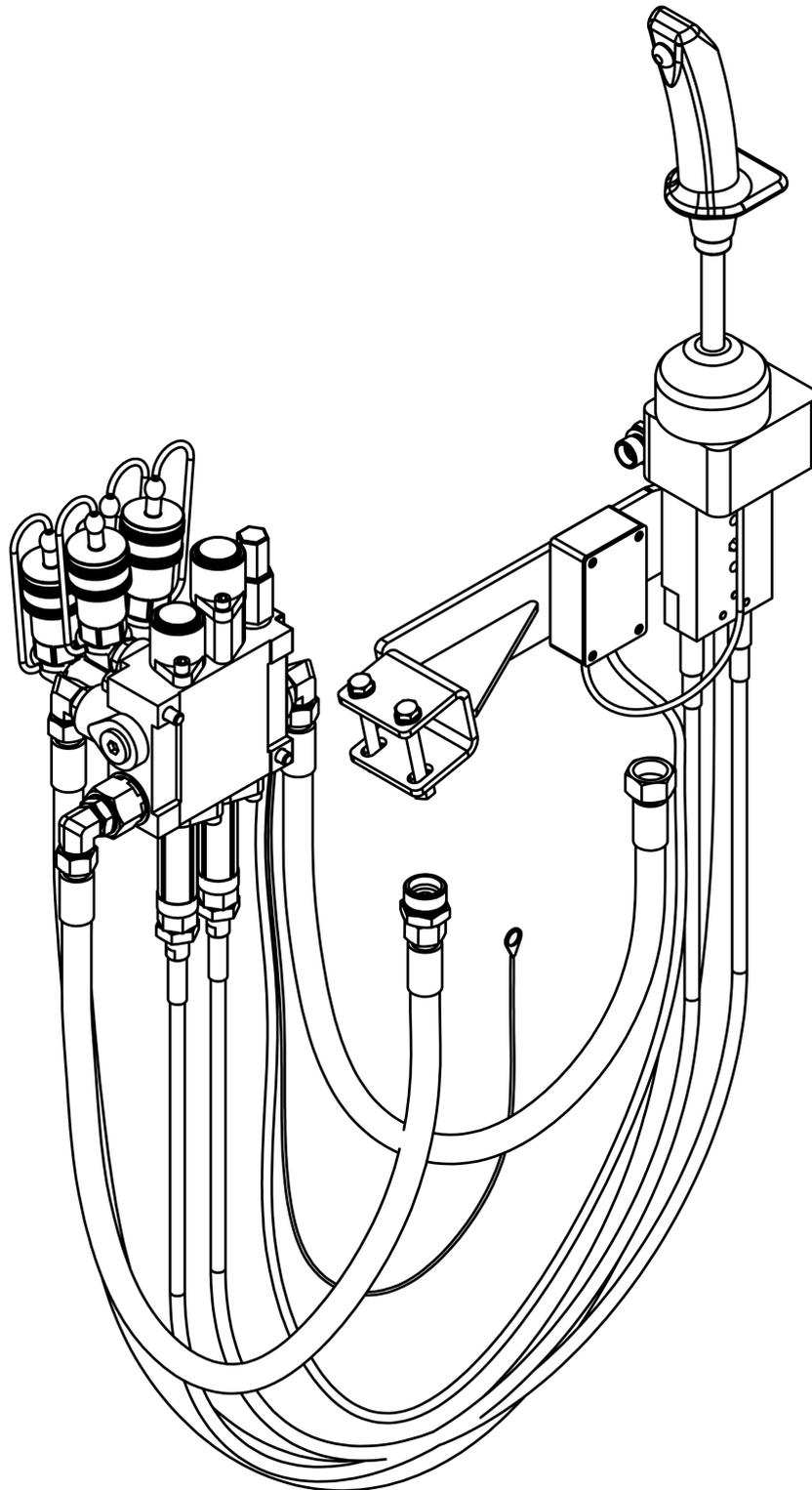
序号 No.	图号 Code	名称 Description	数量 Quantity
1	MFJ63/35	油缸密封件 Sealing element	1

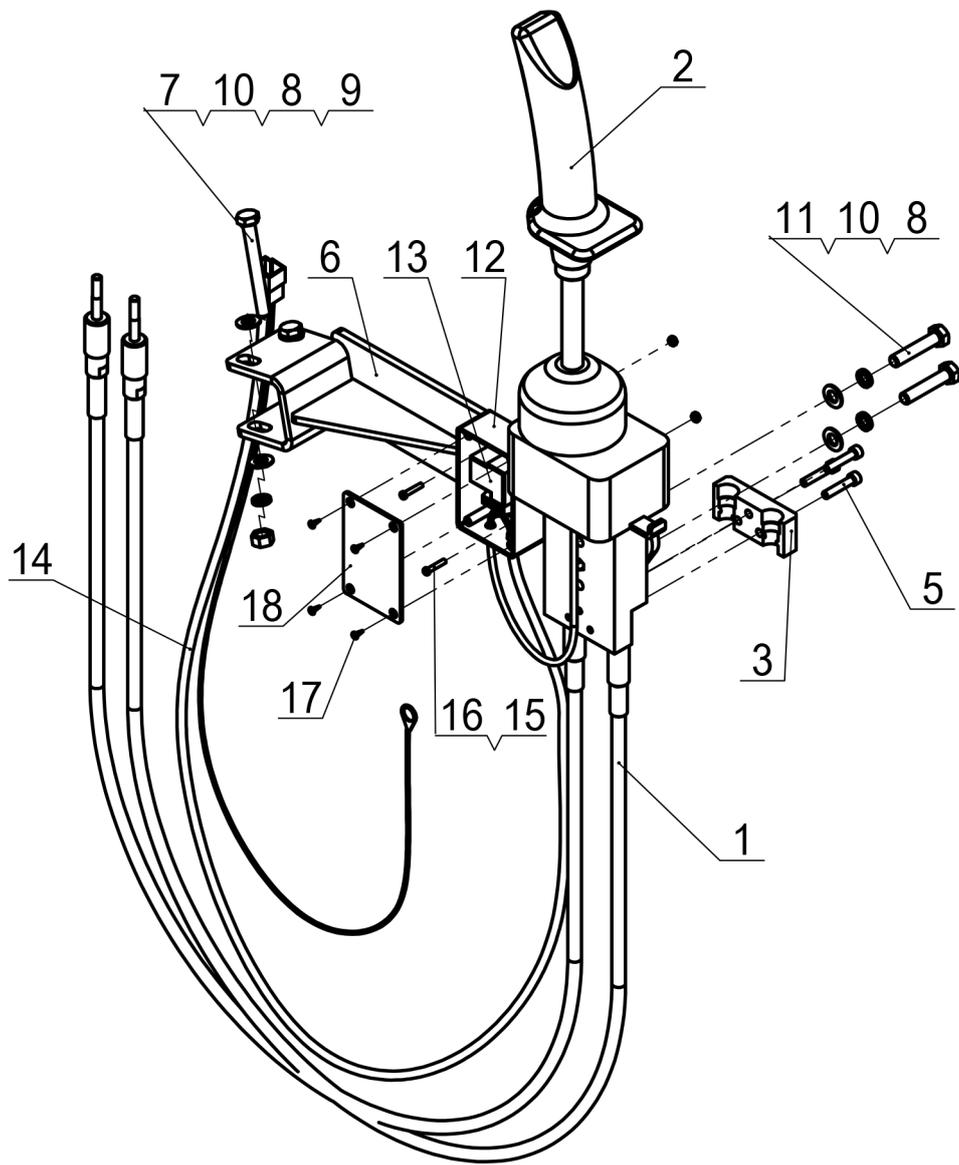


FQ40. 7. 02

序号 No.	图号 Code	名称 Description	数量 Quantity
1	MFJ50/30	油缸密封件 Sealing element	1

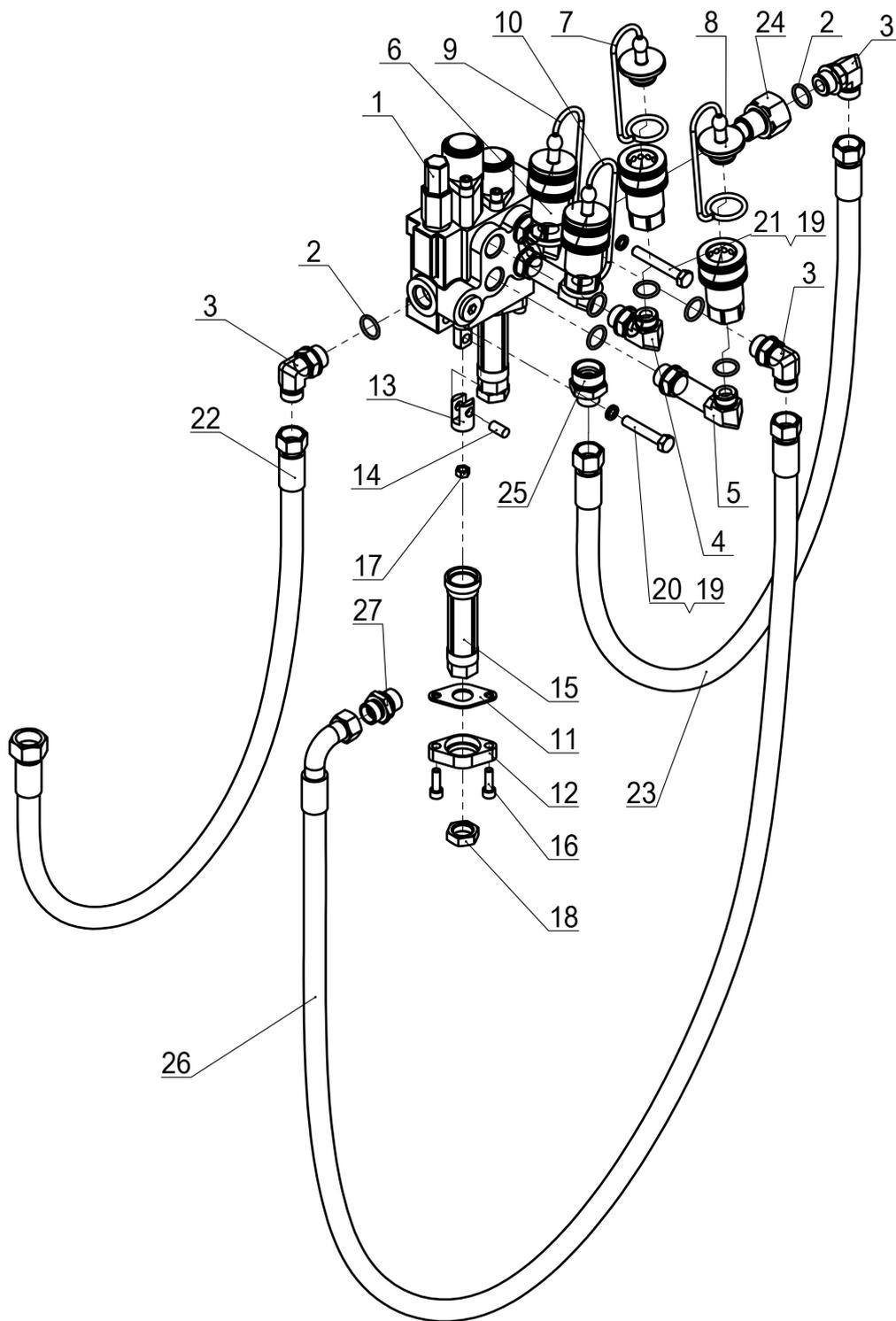
Single-lever Control unit





序号 No.	图号 Code	名称 Description	数量 Quantity
1	FQ40.7-1500	拉线 Stay wire	2
2	FQ40.7.20-101-KG	操作手柄 Control handle	1
3	FQ40.7.20-102	手柄盖板 Handle cover plate	1
5	GB/T70.1-2000- M5×25	螺钉 M5X25 Bolt M5X25	3
6	LWM504.07	推拉索支座 Mounting base	1
7	GB/T5783-2000- M8×70	螺栓 M8X70 Bolt M8X70	2
8	GB/T93-1987-8	垫圈 8 Washer	4
9	GB/T6170-2000-M8	螺母 M8 Nut M8	2

10	GB/T 97.2-1985	垫圈 8 Washer	6
11	GB/T5783-2000- M8×40	螺栓 M8X40 Bolt M8X40	2
12	FQ40.7.21-101	电磁继电器盒 Mounting box	1
13	FQ40.7.21-103	线路板 Circuit board	1
14	FQ30.7.30-110	电线 Circuit line	1
15	GB/T6170-2000-M3	螺母 M3 Nut M3	2
16	GB/T5783-2000- M3×16	螺栓 M3X16 Bolt M3X16	2
17	GB/T5783-M3×7	螺栓 M3X7 Bolt M3X7	4
18	FQ40.7.21-102	电磁继电器盖 Cover plate	1



序号 No.	图号 Code	名称 Description	数量 Quantity
1	P40-QTW-OT-0	液压阀 Hydraulic valve	1
2	IS011926-16. 36X2. 21	O型圈 O-ring	11
3	Y07	液压接头 Hydraulic connector	3
4	Y03	液压接头 Hydraulic connector	2

5	Y04	液压接头 Hydraulic connector	2
6	KHJT-12-F	母接头 Quick change female connector	4
7	FQ30. 7. 20-122	母护帽-红 Rubber cap-F-RD	1
8	FQ30. 7. 20-125	母护帽-紫 Rubber cap-F-PL	1
9	FQ30. 7. 20-124	母护帽-蓝 Rubber cap-F-BU	1
10	FQ30. 7. 20-121	母护帽-黑 Rubber cap-F-BK	1
11	P40. 01-101	阀垫片 flat pad	2
12	FQ40. 7. 20-103	推拉索法兰 flange plate	2
13	FQ40. 7. 20-104	推拉索铸铝管 bushing	2
14	FQ40. 7. 20-106	推拉索小销轴 pin	2
15	FQ40. 7. 20-105	推拉索铸铝套 bushing	2
16	GB/T70. 1-2000- M6×20	螺钉 M6X20 Screw M6X20	4
17	GB/T 6170-2000	螺母 M6 Nut M6	2
18	GB/T 6173-2000- M16×1. 5	螺母 M16X1. 5 Nut M16X1. 5	2
19	GB/T93-1987-8	垫圈 8 Washer 8	2
20	GB/T5783-2000- M8×45	螺栓 M8X45 Bolt M8X45	1
21	GB/T5783-2000- M8×55	螺栓 M8X55 Bolt M8X55	1
22	LWM504. 0- 110	液压油管 Hydraulic hose	1
23	LWM504. 0- 111	液压油管 Hydraulic hose	1
24	P40-OT	液压接头 Hydraulic connector	1
25	Y20	液压接头 Hydraulic connector	1
26	Y08	液压接头 Hydraulic connector	1