MAINTENANCE MANUAL

FOR BOLEO HYDRAULIC EXCAVATOR

Machine models	ZEWEIT
Edition	V.0.2
Document order number	2000966
Language	us
From serial number	BOLEOCE23036

THIS OPERATOR'S MANUAL INCLUDES THE AEM SAFETY

ASSOCIATION OF EQUIPMENT MANUFACTURERS

E-mail: info@boleomfg.com
www.boleomfg.com
www.boleoUS.com

Boleo Corporation
47 Qingyang Rd Changzhou
CN-213000

INDEX

LETTER TO CUSTOMER **02**

EXCAVATOR **04**
QUALITY GUARANTEE
REGULATIONS

SPARE PARTS **06**
(ASSEMBLY)
WARRANTY PERIOD

MAINTENANCE PARTS **15**
REPLACE
PERIODIC CHART

TO CUSTOMER

© Boleo Corporation

DEAR CUSTOMER:

Thanks for choosing Boleo hydraulic excavator. In order to better use of BOLEO excavator. Before you use the excavator, please carefully read the《Boleo hydraulic excavator warranty manual》provided by Boleo Corporation. And abide by all the rules and regulations in it.

This manual is formulated in accordance with the quality assurance regulations and relevant regulations of Chinese excavator industry.

Read excavator operation instructions and engine operation instructions carefully, and strictly follow the requirements of the correct use and maintenance.

Welcome your comments on Boleo excavator and services.

Please follow the Boleo Corporation Website official service account.

© Boleo Corporation

EXCAVATOR QUALITY GUARANTEE REGULATIONS

PURPOSE

Clarity the conditions and scope of quality warranty service for excavator produced by Boleo Corporation,Clarify the rights and obligations between the company and users in terms of product quality assurance responsibilities and after-salea services.

SCOPE OF APPLICATION

This regulation only applies to the quality maintenance management of Boleo excavators produced by Boleo.

DEFINITION

- **Quality maintenance**

The product is maintained under the specified service conditions, and the part is failure or damage due to disqualification or defect in product design, manufacture, assembly and materials within the specified time. Boleo provides new parts in free charge for user to replacement.

- **No warranty**

The product is not used in accordance with the specified conditions or out of the warranty period, Boleo will not supply the warranty service.

WARRANTY RULES

During the warranty period stipulated by the Company, if the equipment is faulty or damaged due to the design, manufacture, assembly, and material quality, the new parts shall be provided by the Company, but shall not bear any other liability for any related indirect loss.

WARRANTY PERIOD REGULATIONS

The warranty period for excavator products starts from the date of shipment (bill of lading date), and the warranty period for each component is described in detail in the following sections of this warranty manual.

NO WARRANTY SERVICE CATEGORY

- If the relevant information of damaged parts cannot be provided as required, no compensation shall be given.
- Be disassembled,repaired or modified (any part is not in compliance with the factory standard is identified as modification, such as privately installed attachments, privately modified bucket etc) without written approval of BOLEO, Thus affecting the performance and use of the equipment, the whole machine will be out of warranty.
- Damage caused by natural disaster or force majeure,(such as earthquake,fire, snow disaster,typhoon,collapse and war) whole machine will be out of warranty.
- In violation of the excavator operation rules, operation beyond the specified use of the equipment, and overload operation, the relevant faulty parts shall not be under warranty.
- Do not use and maintain the equipment correctly according to the instruction manual, Including routine maintenance and repair (detailed Maintenance parts replacement periodic chart), use inferior oil and other maintenance materials, resulting in equipment failure and damage, the relevant faulty parts will not be under warranty.
- The equipment should be stop and inspect in time if there is an abnormal situation. The expansion faulty parts caused by continue to forcibly work with a fault, the related fault parts do not under warranty.
- The faulty caused by use non-original BOLEO parts, the relevant parts will not be under warranty.
- Easy wear parts of the machine will not be under warranty.
- Attachments that belongs to tools, spare parts, normal maintenance and all kind of easy wear parts will not to be guaranteed, including :

Screw driver, Plier, Hammer, Spanner, Grease gun ;

Sbulb, Fuse, Seal strips (Rubber strip) ;

Various filter element, Lubricating oil, Lubricating grease, Hydraulic oil, Gear oil,Antifreeze ;

Bucket teeth,Cutter,Sleeve,Washer,Installation block,Fastener (Screw,Bolt,Nut,Pipe clamp,Hoop,Wire cilp,Securing clip,DT fixing plate, HD connector retaining plate,Cable ties,Plastic clips etc.),Pin,Shaft,Sleeve,Rubber parts(Rubber block,Belt,Rubber jacket,Rubber hat,Rubber plate,Rubber mat,Rubber tape,Rubber footplate,Balancing container,Fuel pipe,Insulator cap etc.),Sponge,Inner parts of cab,F.O drain,Grease fitting,Relay,Cigarette lighter,Battery,Connection nip for battery,Radio,Speaker,Lamp bracket,Spacer,Heat-insulation,Heat-insulation cotton,Exhaust tube wrapping material,Asbestos pad,Fire extinguisher,Emergency hammer,Screen,Glass,Rearview mirror,Label .

© Boleo Corporation

EXCAVATOR
SPARE PARTS (ASSEMBLY)
WARRANTY PERIOD

THE WARRANTY PERIOD FOR FOLLOWING PARTS IS 5 YEARS OR 5000HOURS WHICHEVER COMES FIRST.

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
1	Structural parts	Chassis assembly	
2		Platform	
3		Boom	
4		Arm	
5		Counter weight	
6		Left, Right linkage	
7		Connecting rod	
8		Steering head	
9		Hydraulic oil tank, Fuel oil tank	
10		Dozer blade	

THE WARRANTY PERIOD FOR FOLLOWING PARTS IS 3 YEARS OR 3000HOURS WHICHEVER COMES FIRST.

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
1	Hydraulic parts	Traveling motor	
2		Pump	
3		Multi-change valve	
4		Turning motor assembly	
5		Left,Right pilot valve	
6		Oil source pilot valve	
7		Traveling pilot valve	
8		Dozer pilot valve	
9	Structural parts	Slewing support	
10	Power system parts	Connecting disc	
11	Electrical components	MC controller, Control extension module	

© Boleo Corporation

EXCAVATOR
SPARE PARTS (ASSEMBLY)
WARRANTY PERIOD

THE WARRANTY PERIOD FOR FOLLOWING PARTS IS 24 MONTHS

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
1	Hydraulic parts	Hydraulic cylinder assembly	
2		Centre slewing joint	
3		Pilot safety valve, Footplate pilot valve	
4		Boom check shutoff valve, Back pressure Valve, Globe valve	
5		Turning valve	
6		Shuttle valve	
7		Solenoid valve	
8		Comparison valve	
9		Backup accelerator pilot valve	
10		Pilot hydrauilc oil filter (Filter non repire)	
11		Rubber hose assembly	
12		Accumulator	
13	Hydraulic parts	Pipe clamp、Hydraulic joint,split flange clamps	
14		Fuel oil tank cover(Air cleaner), Hydraulic oil tank cover	
15		Liquid meter assembly	
16	Power parts	Water radiator,Hydraulic oil cooler	
17		Silencer	
18		Connector	
19		Upper and lower water pipe	
20		Air cleaner(filter elements are not under warranty)	
21		Inlet air pipe	
22	AC parts	AC manipulator	
23		AC blast blower assembly	
24		AC evaporator core	
25		AC cold core	
26		AC heating core	

© Boleo Corporation

EXCAVATOR
SPARE PARTS (ASSEMBLY)
WARRANTY PERIOD

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
27	AC parts	AC hard pipe	
28		AC desiccators	
29		AC expansion valve	
30		AC temperature Sensor	
31		climatic conditioning cabinet	
32		AC compressor	
33	Electrical components	Electrical harness,Buttery connection,Bond strap	
34		Controller,Color display,Instrument	
35		Starting relay,Preheating relay, Relay module,MZJ connector	
36		Starting key switch	
37		Level sensor,Fuel oil level sensor assembly	
38		Speed sensor	
39		Warm air blower	
40		Pressure Switch	
41	AC system	AC tube	
42		Flux control hot wate	

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
43	AC system	AC Hight,Low voltage switch	
44		AC speed regulating resistance assembly	
45		AC damper control	
46		AC compressor tensioner	
47	Electrical components	Main power switch Manual power switch、Breaker	
48		Wiper	
49		Electrical Horn 、Speaker	
50		Fuse box、Central distribution	
51		Syringe	
52		Rocker switch、Limit switch	
53		Oil filter alarm switch(on the oil return pipe)	
54		Oil water separation alarm switch	
55		Throttle control panel (Throttle knob)	
56		Buzzer	
57		Current limiter resistor Diode	

© Boleo Corporation

EXCAVATOR
SPARE PARTS (ASSEMBLY)
WARRANTY PERIOD

THE WARRANTY PERIOD FOR FOLLOWING PARTS IS 18 MONTHS

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
1	Chassis parts	Steel Crawler	
2		Driving wheel	
3		Front idler assembly	
4		Tensioning assembly	
5		Tensioning cylinder assembly	
6	Structural parts	Left. Right manipulate box	
7		Valve cover subassembly	
8		Left, Right walking manipulate rod	
9		Seat support plate	
10		Sheet metal overlay	
11		Metal cover plate,Cover plate,Lock cover, Dummy plate,Guard bord,Clamp board, Chassis cover plate,Support plate, Check plate	
12		Frame assembly	
13	Structural parts	Cover frame	
14		Hinge plate	
15		Engine hood	
16		Draw pole, Fixed link, Support rod, Connecting rod, Bracket, Protecting wire net	
17		Shock absorber	
18		Air filter bracket	
19		Silencer bracket	
20		Fan guide	
21	Cab subassembly	Main body of cab	
22		Main door body of cab	
23		Overturn window frame	
24	Easy wear parts	Anti-off plate nti-off frame	
25		Rubber crawler	
26		Grease check valve assembly、Grease pipe	
27		Bucket	

© Boleo Corporation

EXCAVATOR
SPARE PARTS (ASSEMBLY)
WARRANTY PERIOD

NO.	ITEM	PARTS/ASSEMBLY	REMARKS
28	Easy wear parts	Door lock Base knob Battery lock、Engine hood lock、Side door lock	
29			
30		Seat assembly	
		Pneumatic support	
31		Auxiliary tank	
32		Cable accelerator assembly、Stop cable assembly	
33		Oil Water Separator bracket	
34		Fuel strainer bracket	
35	Power parts	Exhaust connecting tube、Exhaust pipe	
36		Air prefilter(Connecting air filter)	

MAINTENANCE PARTS
REPLACE PERIODIC CHART

MAINTENANCE PARTS REPLACE PERIODIC CHART										
ITEM	NEW EXCAVATOR WORKING HOURS							SUBSEQUENT REPLACE PERIOD	OIL GRADE
	50	500	1000	1500	2000	2500	3000		
Engine oil	✓	✓	✓	✓	✓	✓	✓	500 hours	Ci4 15W-40
Engine oil filter	✓	✓	✓	✓	✓	✓	✓	500 hours	
Engine diesel prefilter	✓	✓	✓	✓	✓	✓	✓	500 hours	
Engine diesel filter	✓	✓	✓	✓	✓	✓	✓	500 hours	
Oil-water Separator		✓	✓	✓	✓	✓	✓	500 hours	
Engine air filter		✓	✓	✓	✓	✓	✓	500 hours	
Traveling motor gear oil			✓		✓		✓	1000 hours	
Slewing motor gear oil			✓		✓		✓	1000 hours	
Hydraulic oil					✓			2000 hours	
Pilot filter			✓		✓		✓	1000 hours	
Return oil filter			✓		✓		✓	1000 hours	
Oil-intake filter					✓			2000 hours	

NOTE: 1.Mark the "√"is need to replace ;
2.When the excavator is equipped with hydraulic breaker, the replace period of hydraulic oil and hydraulic oil filter should be reduced by half.

© Boleo Corporation