

前 言

本零件目录对 SL50W、SL50W-2 两种型号轮式装载机的零件进行了综合编制。

发动机所属零件，详见发动机零件目录。

因产品改进所增减的零件，恕不另行通知，以后再版时修订，请用户谅解。

FOREWORD

In this Parts Book are listed parts of wheel loaders in 2 models SL50W、SL50W-2 as common part and special.

With regard to parts of engine see "Parts Book of Engine."

Due to continuous research and improvement. Some parts may be changed without notice. Please consult your SHANTUI distributor for items you may require.

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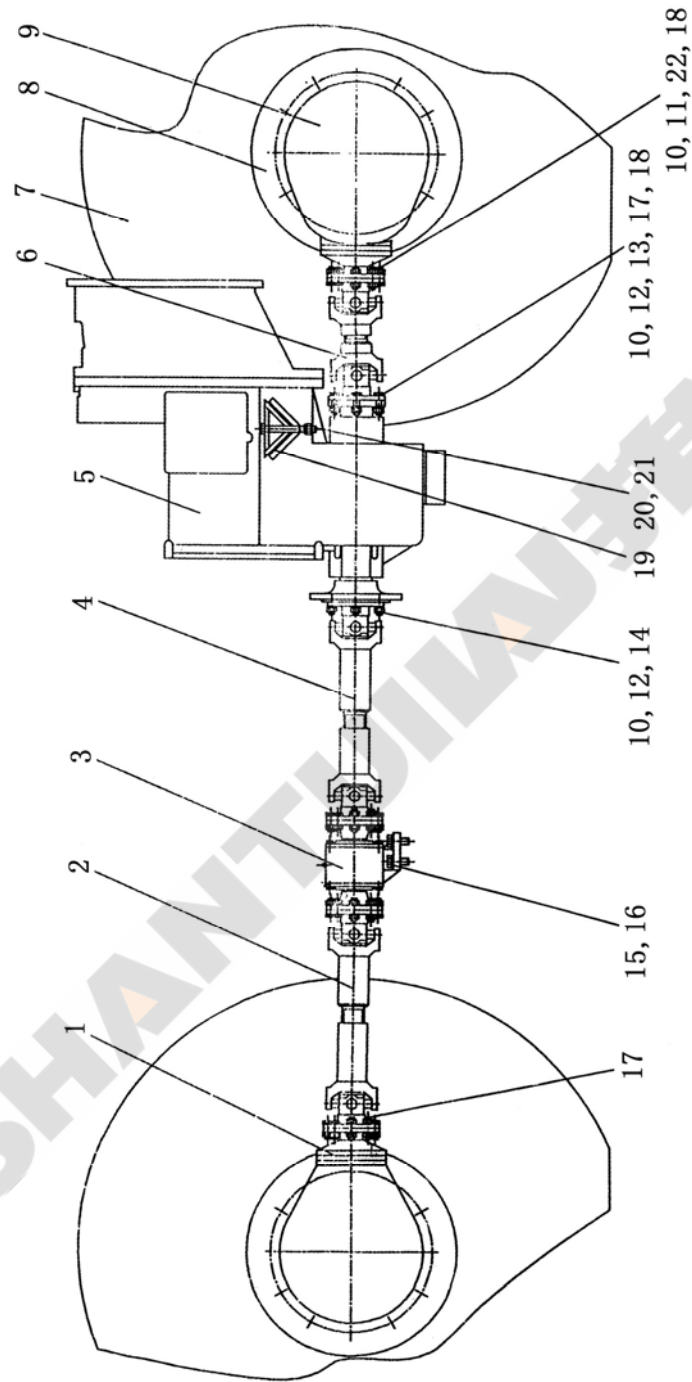
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传 动 系 统
TRANSMISSION SYSTEM

第101图 传动系统
FIG.101 TRANSMISSION SYSTEM

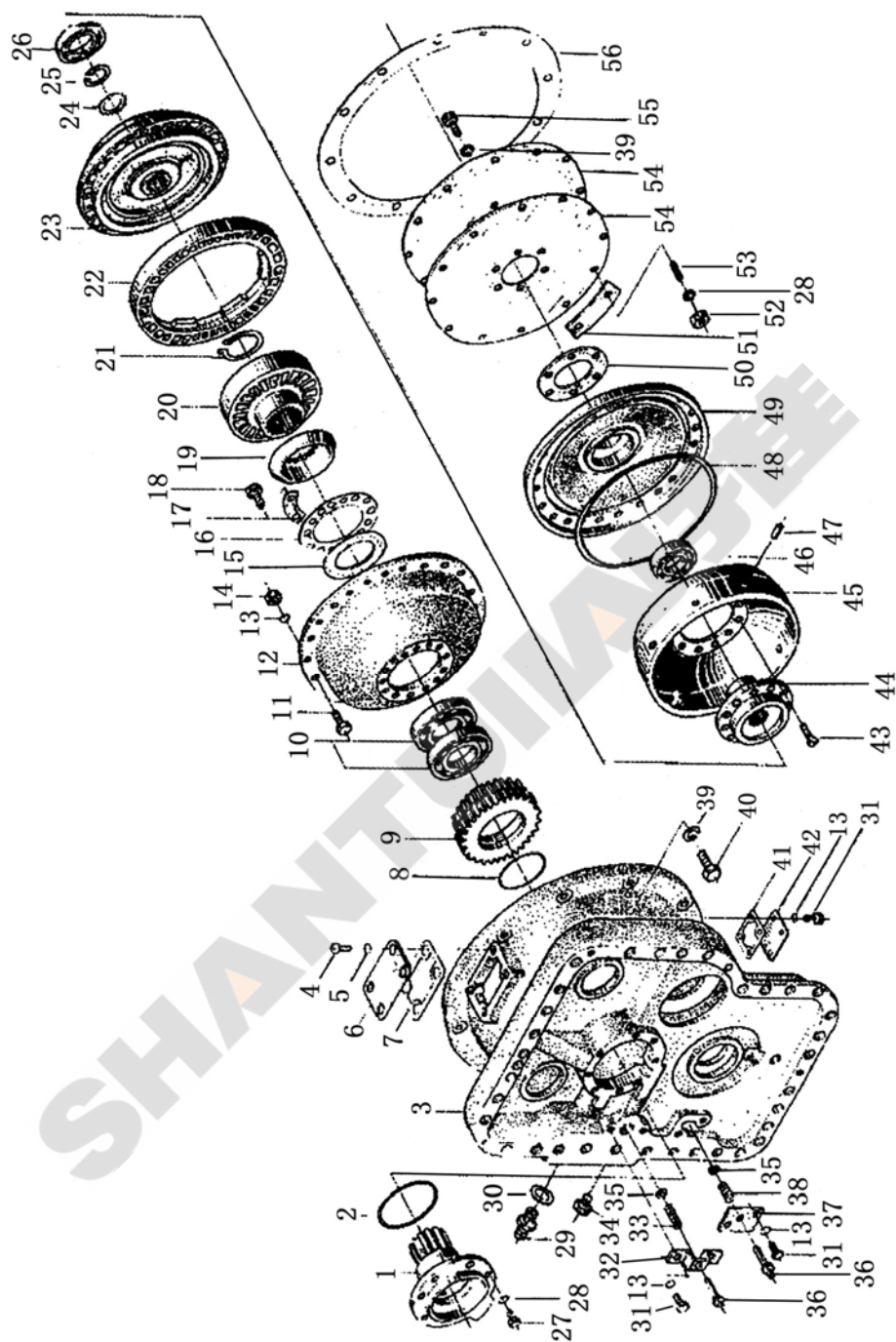


传动系统

TRANSMISSION SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
101-1	80310000	前驱动桥总成	front drive axle assembly	1
2	ZL50C3-04004	前、中传动轴	front & Middle driving shaft	2
3	ZL50G3-04300	中间轴承座	middle bearing seat	1
4	ZL50G3-04004	前、中传动轴	front & Middle driving shaft	2
5	ZL50	液力变矩器	torgue converter	1
6	ZL50G3-04001	后传动轴	rear driving shaft	1
7	ZL50G2-04010	轮胎总成	tyre assembly	4
		23.5-25-16PR	23.5-25-16PR	
8	ZL50G2-04008	轮辋总成 19.5/2.5-25	rim assembly 19.5/2.5-25	4
9	80311000	后驱动桥总成	rear drive axle assembly	1
10	GB6171-86	螺母 M16×1.5	nut M16×1.5	60
11	01050-51645	螺栓 M16×1.5×45	bolt M16×1.5×45	24
12	GB93-87	弹簧垫圈 16	lock washer 16	36
13	GB5785-86	螺栓 M16×1.5×55	bolt M16×1.5×55	4
14	ZL50G3-04003	双头螺柱 M16×1.5	stud M16×1.5	8
15	01010-52050	螺栓 M20×50	bolt M20×50	4
16	01643-32060	弹簧垫圈 20	lock washer 20	4
17	ZL50G3-04005	双头螺柱 M16×1.5	stud M16×1.5	12
18	GB95-85	垫圈 16	washer 16	8
19	ZL50G3-04002	减振垫	underlay of shock absorber	2
20	GB5782-86	螺栓 M18×1.5×150	bolt M18×1.5×150	2
21	GB899-86	螺母 M18×1.5	nut M18×1.5	2
22	01643-31645	螺栓 M16×1.5×45	bolt M16×1.5×45	24

第102图 变矩器总成
FIG.102 HYDRAULIC TORQUE CONVERTER

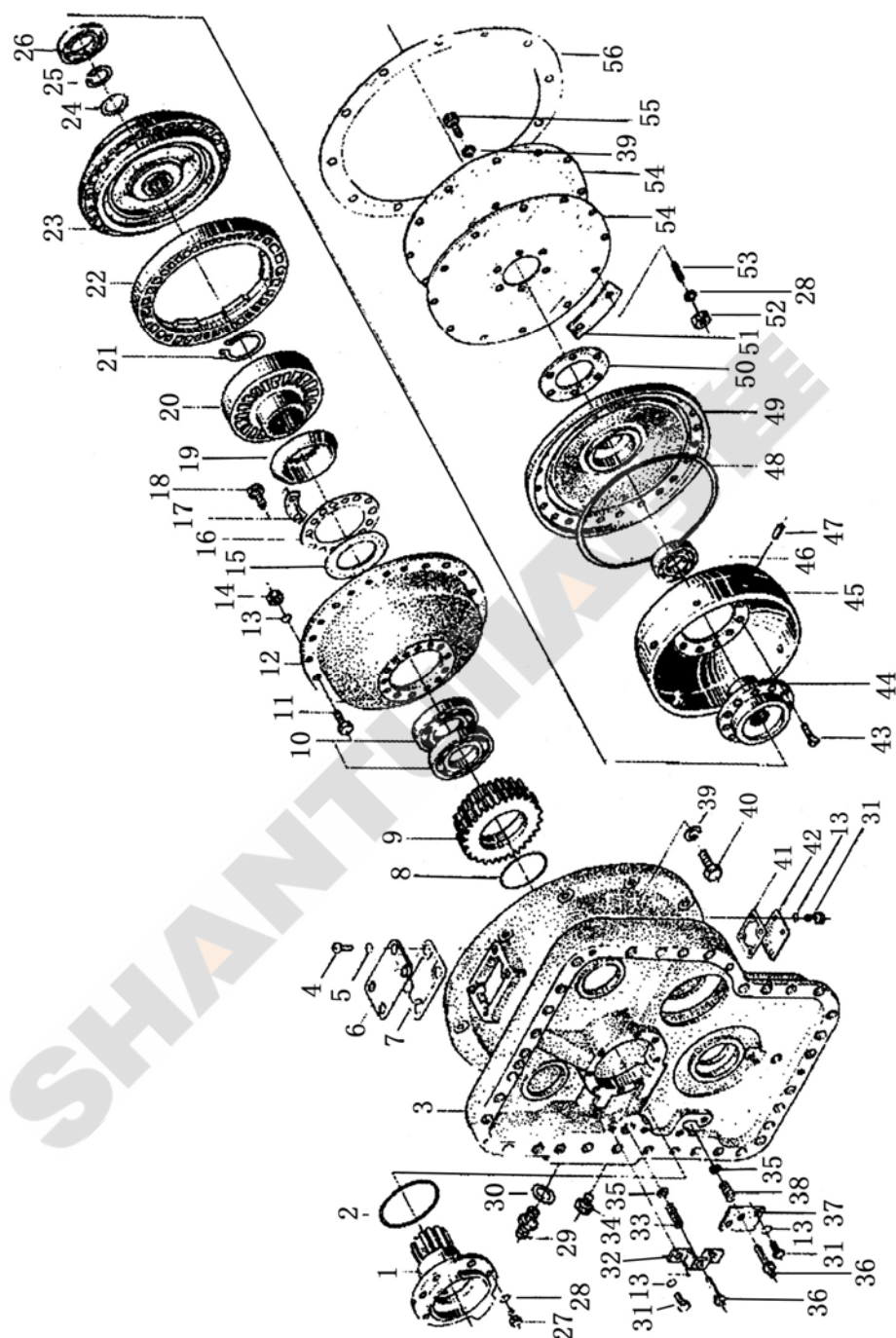


变矩器总成

HYDRAULIC TORQUE CONVERTER

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
102-1	402222	轮座	wheel bracket	1
2	GB3452.1-82	O 型圈 128×3.55	O-ring 128×3.55	1
3	402216	壳体	casing	1
4	GB67-85	紧固螺钉 M6×16	button-head screw M6×16	4
5	GB93-87	垫圈 6	washer 6	4
6	402214	衬板	backing board	1
7	402215	衬垫	casket	1
8	402221	密封环	seal ring	1
9	402220	齿轮	gear	1
10	GB276-89	轴承 117	bearing117(130×85×22)	2
11	GB5782-86	螺栓 M8×35	bolt M8×35	24
12	402227	泵轮	pump pulley	1
13	GB93-87	垫圈 8	washer 8	36
14	GB6170-86	螺母 M8	nut M8	24
15	402224	调整垫圈	regulating washer	1set
16	402226	压板	press board	1
17	402218	垫圈	check washer	6
18	GB5783-86	螺栓 M8×30	bolt M8×30	14
19	402225	导油环	oil guiding ring	1
20	402217	导轮	guide pulley	1
21	GB894.1-86	挡圈	sprag 80	1
22	402209	一级涡轮	one-stage turbine	1
23	402212-213	二级涡轮	two-stage turbine	1
24	402238	止动片	spline spacer	1set
25	GB893.1-86	挡圈	sprag 50	1
26	GB276-89	轴承 113	bearing113(100×65×18)	1
27	GB5783-86	螺栓 M10×28	bolt M10×28	8
28	GB93-87	垫圈 10	check washer10	20
29	402111	联接接头	union joint	2
30	402106	垫圈	washer	2
31	GB5783-86	螺栓 M8×16	bolt M8×16	8
32	402228	阀盖	valve cover	1
33	402229	弹簧	spring	1
34	402223	螺塞	plug screw	1
35	402232	垫	spacer	2
36	402233	阀杆	valve stem	2
37	402230	衬板	backing board	1
38	402231	弹簧	spring	1
39	GB93-87	垫圈 12	washer12	36

第102图 变矩器总成
FIG.102 HYDRAULIC TORQUE CONVERTER

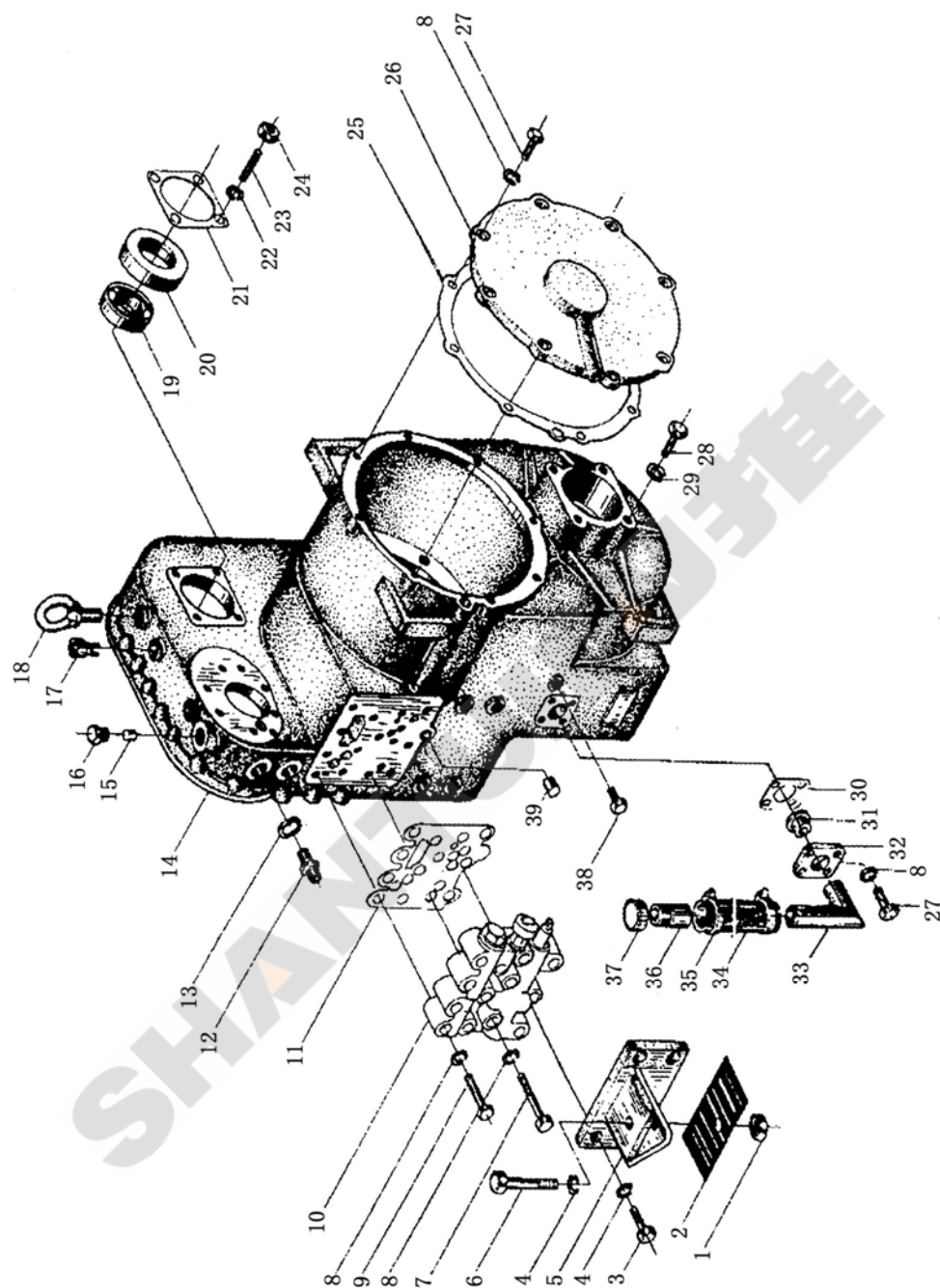


变速器总成

HYDRAULIC TORQUE CONVERTER

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
102-40	GB5782-86	螺栓 M12×45	bolt M12×45	12
41	402235	垫圈	check washer	1
42	402234	衬板	backing board	1
43	GB869-86	沉头铆钉	sunk rivet 8×16	12
44	402206	初级涡轮套	first stage turbine casing	1
45	402207	初级涡轮盖	first stage turbine cover	1
46	GB276-86	轴承 210	bearing210(90×50×20)	1
47	402208	弹性销	flexible pin	9
48	402236	O 型圈	O-ring	1
49	402203	罩轮	casing wheel	1
50	402210	圆衬板	round backing board	1
51	402201	垫片	spacer	6
52	GB6171-86	螺母 M10×1	nut M10×1	12
53	402237	螺钉	stud	12
54	402202	弹性板 S=1.0	flexible board S=1.0	2
55	GB5782-86	螺栓 M12×30	bolt M12×30	6
56	402211	垫圈	gasket	1set

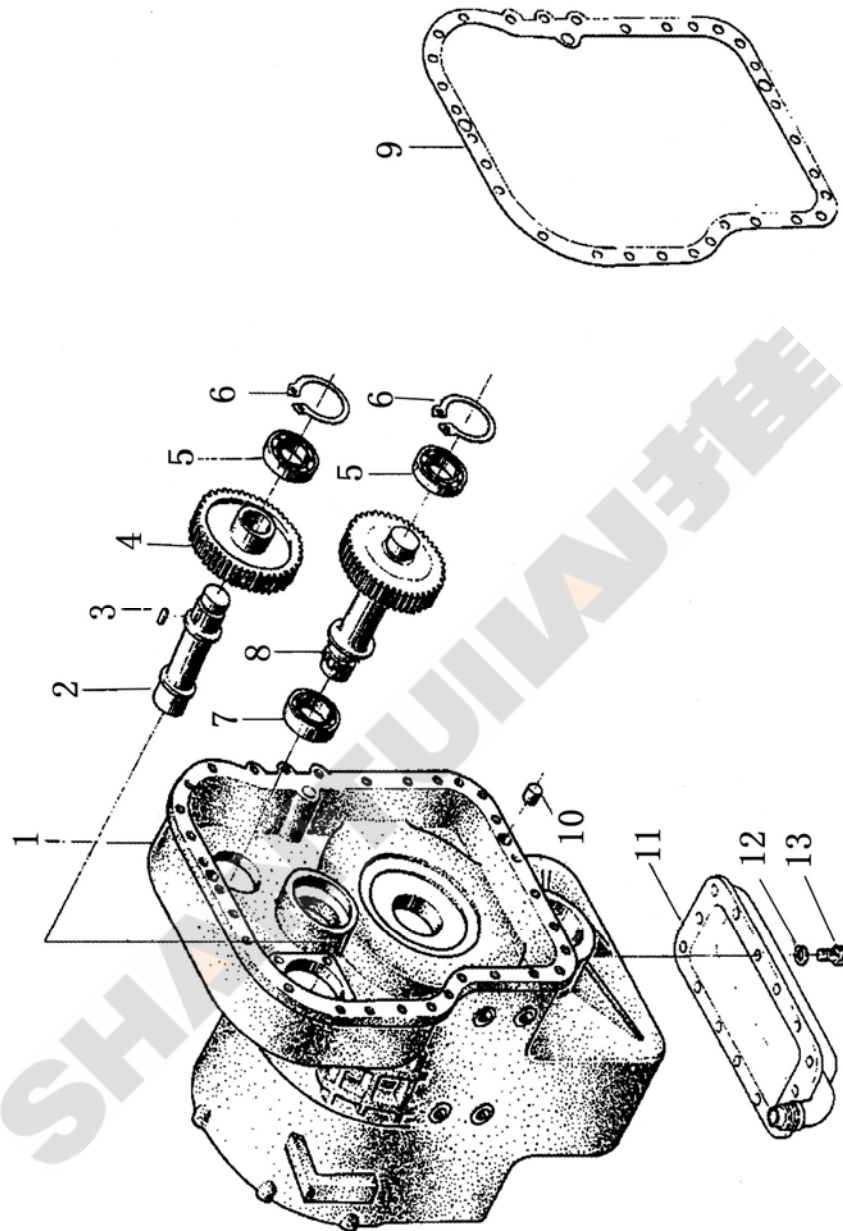
第 103 图 变速箱总成 (I)
FIG.103 SPEED VARIATOR (I)



变速箱总成 (I)
SPEED VARIATOR (I)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
103-1	GB41-86	螺母 M18	2
2	403031	橡胶垫	2
3	GB5782-86	螺栓 M18×40	8
4	GB93-87	垫圈 18	10
5	403032-34	连接座	2
6	GB5780-86	螺栓 M18×140	2
7	GB5782-86	螺栓 M10×75	9
8	GB93-87	垫圈 10	64
9	GB5782-86	螺栓 M10×70	9
10	403700	操纵阀总成	1
11	403029	密封垫	1
	402111C		
12	402111 402111X ₃ 402111X ₆	接头体	3
13	402106 403005AX ₁	垫圈	3
14	403005A 403005AX ₃	壳体	1
15	403028	锥销	1
16	102223	螺塞	1
17	403024-27	透气塞总成	1
18	GB825-86	吊环螺钉	2
19	GB276-89	球轴承 211	1
20	403057	轴承座	1
21	403058	密封垫	1
22	GB93-87	垫圈 12	12
23	GB897-74	螺钉 M10×30	4
24	GB6170-86	螺母 M12	4
25	403001	密封垫	1
26	403002	端盖	1
27	GB5783-86	螺栓 M10×30	38
28	GB5782-86	螺栓 M14×30	4
29	GB93-87	垫圈 14	4
31	GB1235-76	O 型圈 40×3.1	
32	403064A	密封板	1
33	403063A	直角管	1
34	403060A	橡胶管	1
35		管箍 13/4"	2
36	403062A	连接管	1
37	403059A	加油口盖	1
38		观察口螺塞 ZG1/4"	1
39	403022	圆柱销	1

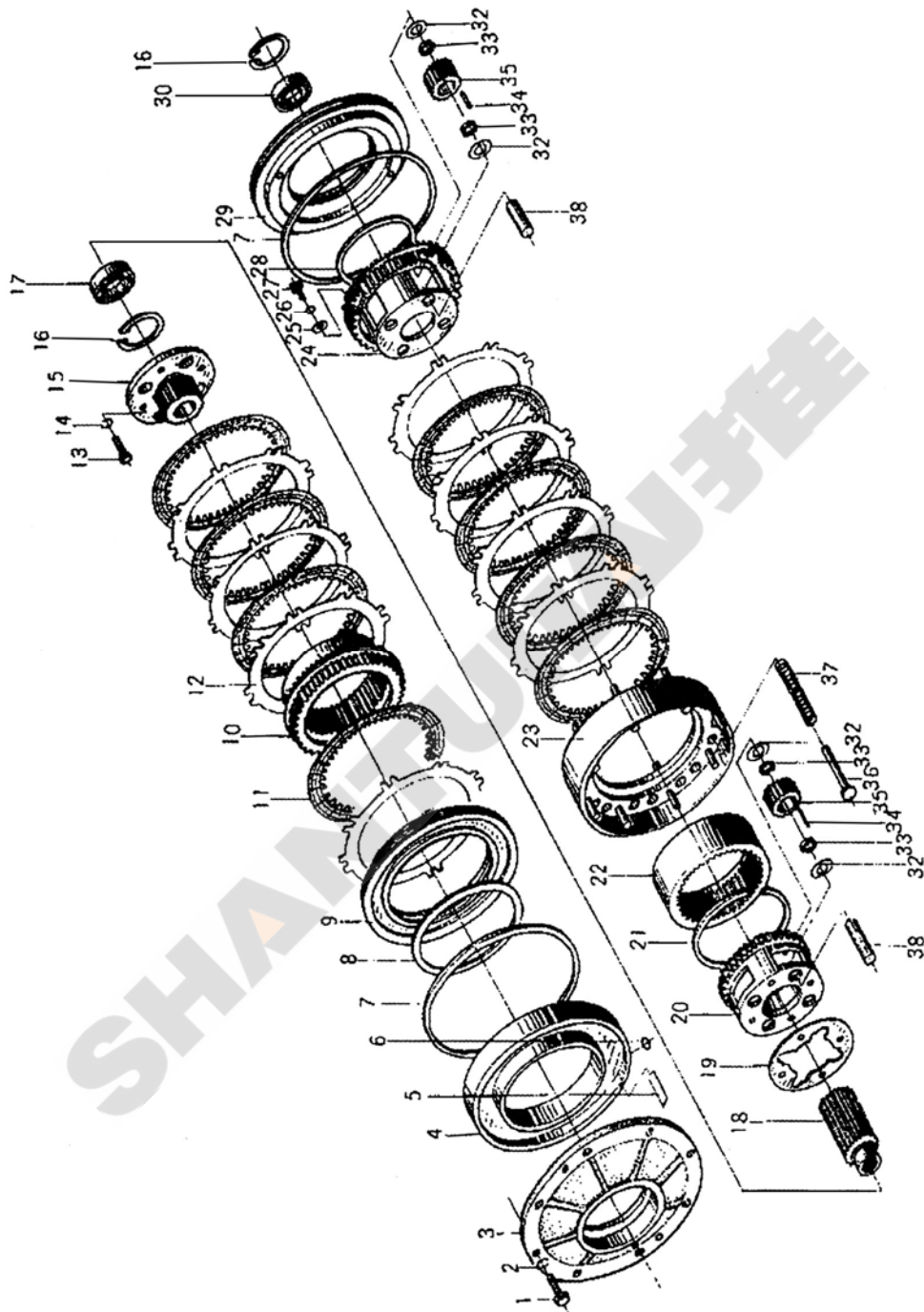
第 104 图 变速箱总成 (II)
FIG.104 SPEED VARIATOR (II)



变速箱总成 (II)
SPEED VARIATOR (II)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
104-1	403005A 403005AX ₁ 403005AX ₃	壳体 housing	1
2	403055A 403055AX ₁ 403055AX ₃	泵轴 driving shaft, steering punp	1
3	GB1096-79	键 14×35 key 14×35	1
4	403056	齿轮 driving gear	1
5	GB277-89	球轴承 50210 ball bearing 50210 (50×90×20)	2
6	GB894.1-86	挡圈 90 sprag 90	2
7	GB276-89	球轴承 112 ball bearing 112 (60×95×18)	1
8	403610A	齿轮轴 shaft gear	1
9	403021	垫 sealing spacer	1
10	GB119-86	销 A10×30 pin A10×30	2
11	403400	油底壳 oil sump	1
12	GB93-87	垫圈 10 washer 10	14
13	GB5783-86	螺栓 M10×25 bolt M10×25	14

第 105 图 行星轮
FIG.105 PLANETARY GEARS

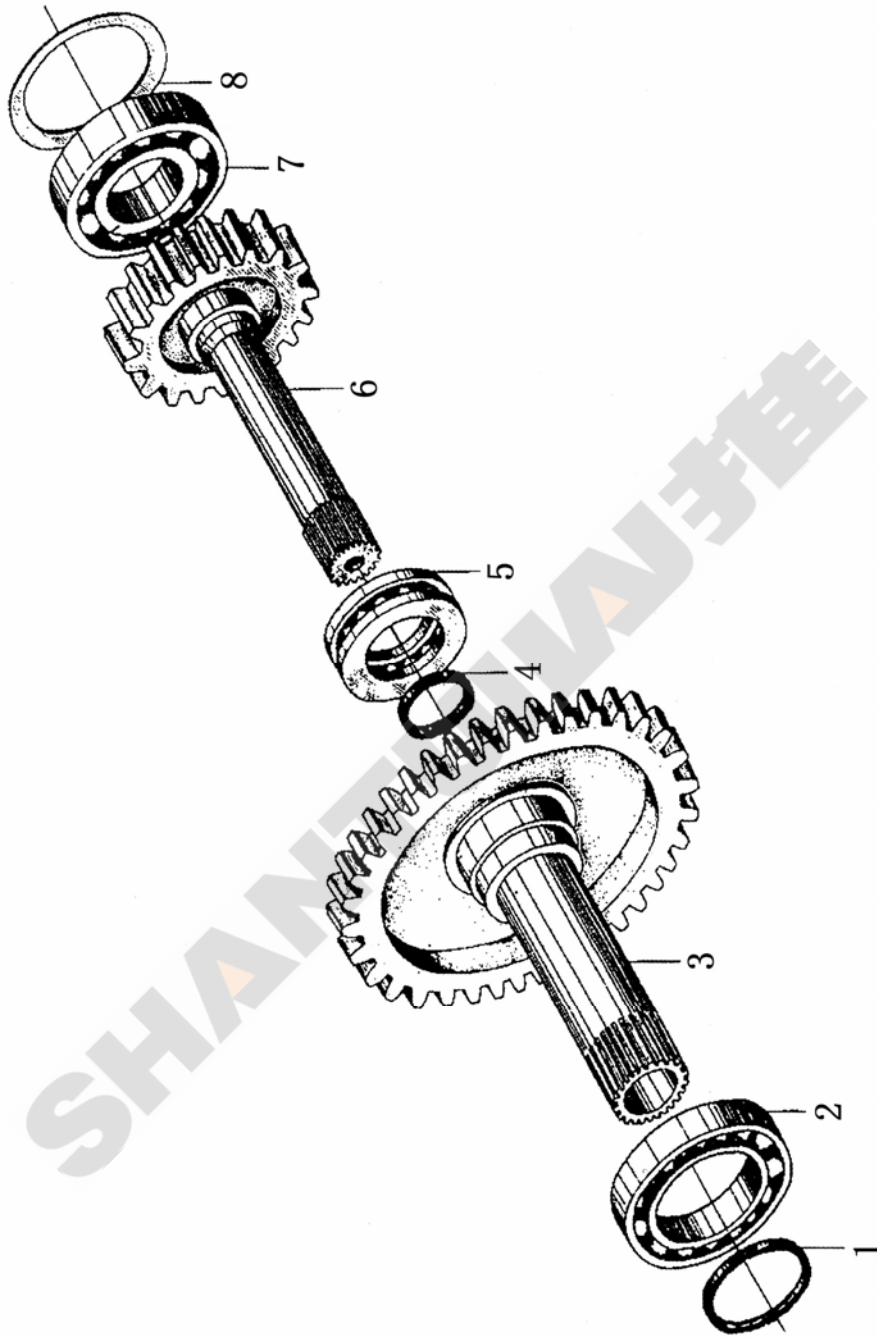


行星轮

PLANETARY GEARS

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
105-1	GB5783-86	螺栓 M14×40	8
2	GB93-87	垫圈 14	8
3	403003A	中间封盖	1
4	403004	齿套	1
5	403023	固定板	1
6	GB1235-76	O 形圈 Φ20×2.4	1
7	403006A	外密封环	2
8	403010A	内密封环	1
9	403008A	挡活塞	1
10	403222	挡内环凸轮	1
11	403012-013	倒、I 档主动盘总成	8
12	403011	倒、I 档主动片	8
13	GB5783-86	螺栓 M10×30	4
14	GB93-87	垫圈 10	4
15	403225	连接盘	1
16	GB894.1-86	挡圈 90	1
17	GB277-89	球轴承 50210	1
18	403226	中间齿轮	1
19	403224	止动盘	1
20	403223	档小齿轮架	1
21	403220	圆环	1
22	403216	内齿套	1
23	403014-15	摩擦盘隔架	1
24	403213	小齿轮架	1
25	403215	垫圈	4
26	GB93-87	垫圈 8	4
27	GB5783-86	螺栓 M8×14	4
28	403020A	内密封环	1
29	403018A	活塞	1
30	GB276-89	球轴承 110	1
31	403227	档行星轴	4
32	403217	垫	16
33	403219	衬垫	16
34	GB309-84	销 Φ4×35	176
35	403218	行星齿轮	8
36	403016	弹簧销轴	15
37	403017	弹簧	15
38	403221	行星轴	4
39	GB893.1-86	挡圈	1

第 106 图 一轴总成
FIG.106 FIRST-SHAFT ASSEMBLY



一轴总成

FIRST-SHAFT ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
106-1	403101	旋转油封 swivel oil seal 70×78×5	1
2	GB276-89	球轴承 116 ball bearing 116(80×125×22)	1
3	403103	二档输入齿轮 input second-stage gear	1
4	403102	旋转油封 swivel oil seal 45×53×5	1
5	GB301-84	推力球轴承 thrust ball bearing 8111	1
6	403104	档输入齿轮 input first-stage gear	1
7	GB276-89	球轴承 311 ball bearing 311(55×120×29)	1
8	403105	调节环 regulating ring	1set

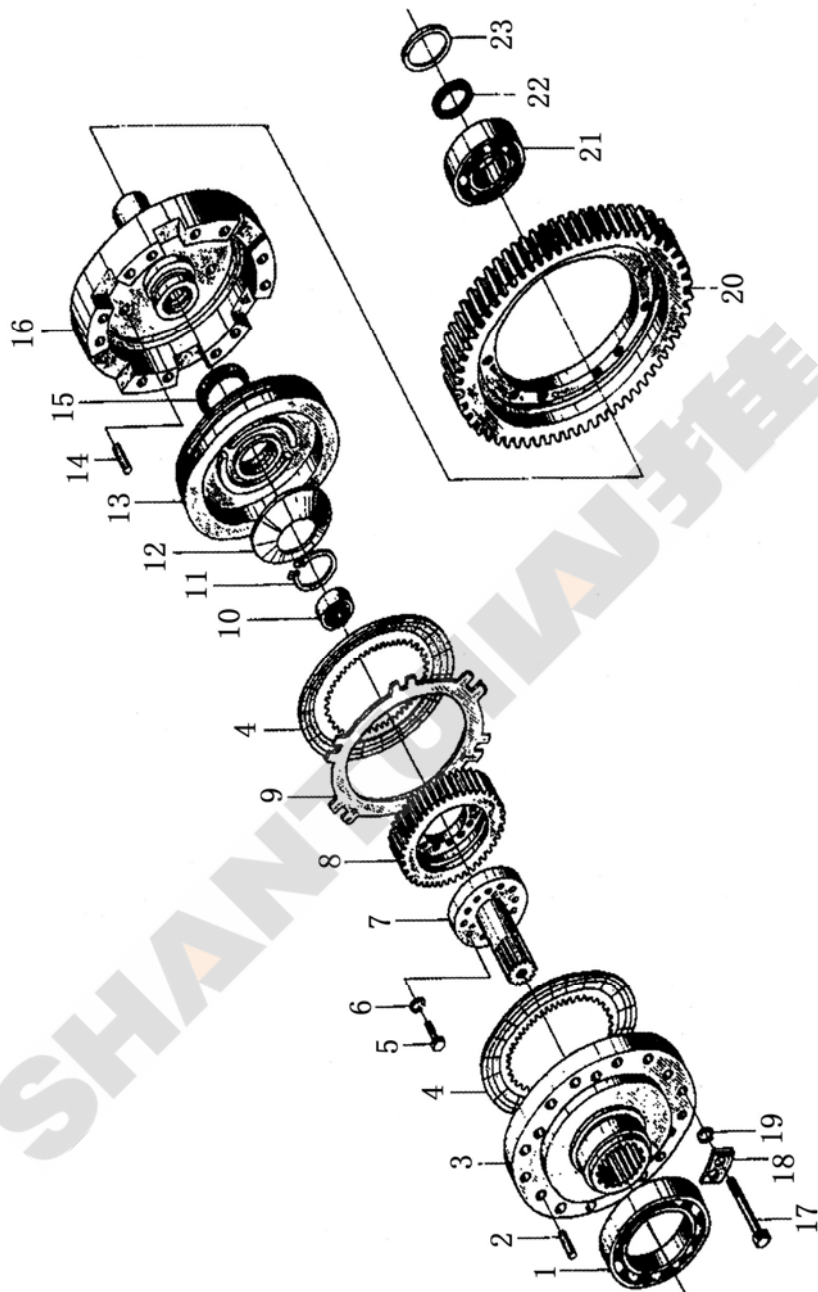
This technical drawing is an exploded view of a mechanical assembly, likely a planetary gear set. The components are numbered 1 through 19. At the bottom, a shaft (5) is shown with a pinion gear (7) mounted on it. A bearing (4) is positioned at the end of the shaft. Above the shaft, there is a series of components: a pin (6), a washer (8), a nut (9), and a large gear (11). A ring gear (12) is shown next to the large gear. A pin (1) is used to secure the ring gear. A plate (2) with a slot (3) is also shown. A ring (13) with internal teeth is positioned above the ring gear. A pin (14) and a screw (15) are used to secure the ring. A large gear (16) is shown above the ring. A pin (17) and a washer (18) are used to secure the large gear. A nut (19) is shown at the top of the assembly.

二轴总成

SECOND-SHAFT ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
107-1	403207A	销 pin rollerΦ15×32	20
2	403204A	弹簧 spring	40
3	403202A	弹簧架 spring carrier	40
4	GB276-89	球轴承 211 ball bearing 211 (6×100×21)	1
5	GB6171-86	螺母 M10×1 nut M10×1	20
6	GB859-87	垫圈 10 washer 10	20
7	403203	输入轴 input shaft,counter shaft	1
8	GB276-89	球轴承 110 ball bearing 110 (50×80×16)	1
9	403210	隔套 spacing bushing	1
11	403205A	左垫 left sprag, pin roller	1
12	403209	内凸轮环 inner ring cam	1
13	403206	右垫 right sprag, pin roller	1
14	GB893.1-86	挡圈 80 sprag 80	1
15	403201	螺栓 bolt	20
16	403208A	外齿轮环 outer ring gear	1
	GB276-89	球轴承 210 ball bearing 210 (50×90×20)	2
17			
18	403211	隔环 Spacing ring	1
19	403212	调节环 Regulating ring	1

第 108 图 三轴总成
FIG.108 THIRD-SHAFT ASSEMBLY

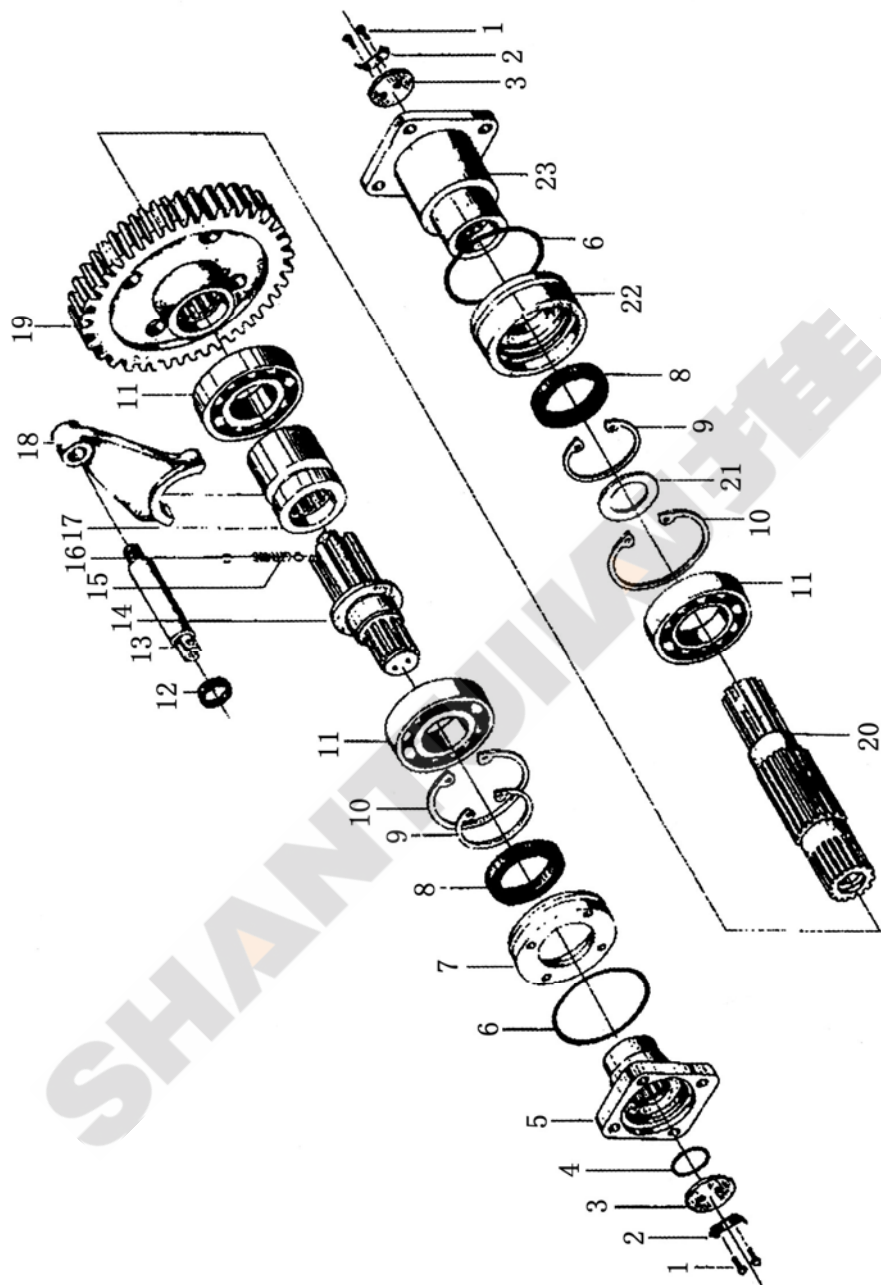


三轴总成

THIRD-SHAFT ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
108-1	GB276-89	球轴承 122 ball bearing 122 (110×170×28)	1
2	403504	直销 straight pin	6
3	403501	推力盘 thrust plate	1
4	403505-506A	主动片 driving plate	2
5	GB5783-86	螺栓 M8×20 bolt M8×20	12
6	GB93-87	垫圈 8 washer 8	12
7	403502	滑动轴 direct shift shaft	1
8	403509	边齿轮 II II-gear rim	1
9	403507	主动片 driven plate	1
10	GB276-89	球轴承 204 ball bearing 204 (20×470×14)	1
11	GB894.1-87	挡圈 sprag 65	1
12	403513	弹簧盘 dish spring	1
13	403508-510A	活塞 piston	1
14	403516	销 Φ10 pin Φ10	3
15	403101	旋转油封 swivel oil seal 70×78×5	1
16	403512A	油缸 cylinder	1
17	GB5785-86	螺栓 M12×1.5×100 bolt M12×1.5×100	12
18	402517	锁止板 locking plate	6
19	GB93-87	垫圈 12 washer 12	12
20	403511	输出齿轮 output gear, counter shaft	1
21	GB276-89	球轴承 311 ball bearing 311 (55×120×29)	1
22	403102	旋转油封 swivel oil seal 45×53×5	1
23	403105	调节环 regulating ring	1set

第 109 图 四轴总成
FIG.109 FOURTH-SHAFT ASSEMBLY

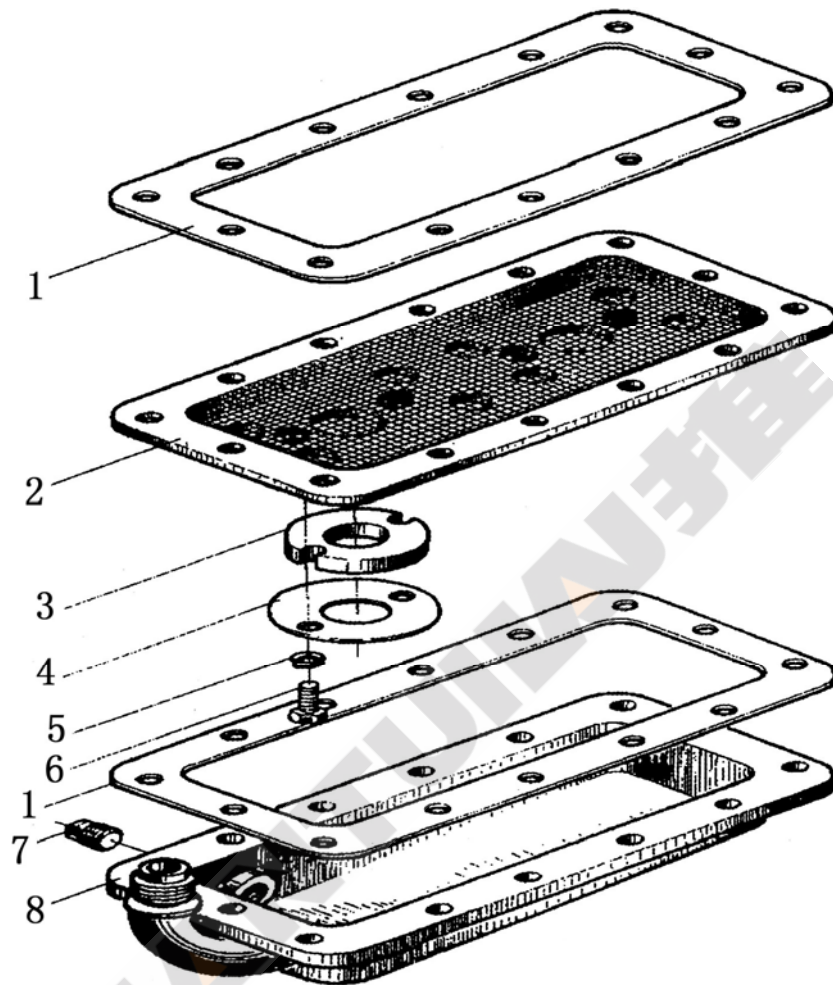


四轴总成

FOURTH-SHAFT ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
109-1	GB5783-86	螺栓 M10×30	bolt M10×30	4
2	403302	锁止板	locking plate	2
3	403303A	压板	press board	2
4	403315	O 型圈 52×5.7	O-ring 52×5.7	1
5	403301B	法兰	flange	1
	403301X ₂			1
	403301X ₃			1
6	GB1235-76	O 形圈 130×5.7	O-ring 130×5.7	2
7	403304A	油封	oil seal carrier	1
8	GB2600-80	密封圈	cased seal SG70×95×12	2
9	GB893.1-86	档圈 95	sprag 95	2
10	GB893.1-86	档圈 130	sprag 130	2
11	GB276-89	球轴承 312	ball bearing 312	3
		(60×130×31)		
12	GB2600-80	密封圈	cased seal SD25×40×10	1
13	403306A	棒	draft bar	1
14	403309B	后输出轴	rear output shaft	1
15	403308	弹簧	spring	1
16	GB308-89	钢球	steel ball 10	2
17	403310	滑套	sliding bushing	1
18	403307	拨叉	fork	1
19	403311	输出齿轮轴	output shaft gear	1
20	403312B-313	前输出轴	front output shaft assembly	1
21	403305A	隔套	spacing bushing	1
22	403304A	油封架	oil seal carrier 1	1
23	409109	法兰	flange	1
	409109X ₁			1
	409109X ₂			1
	409109X ₃			1

第 110 图 油池总成
FIG.110 OIL SUMP ASSEMBLY

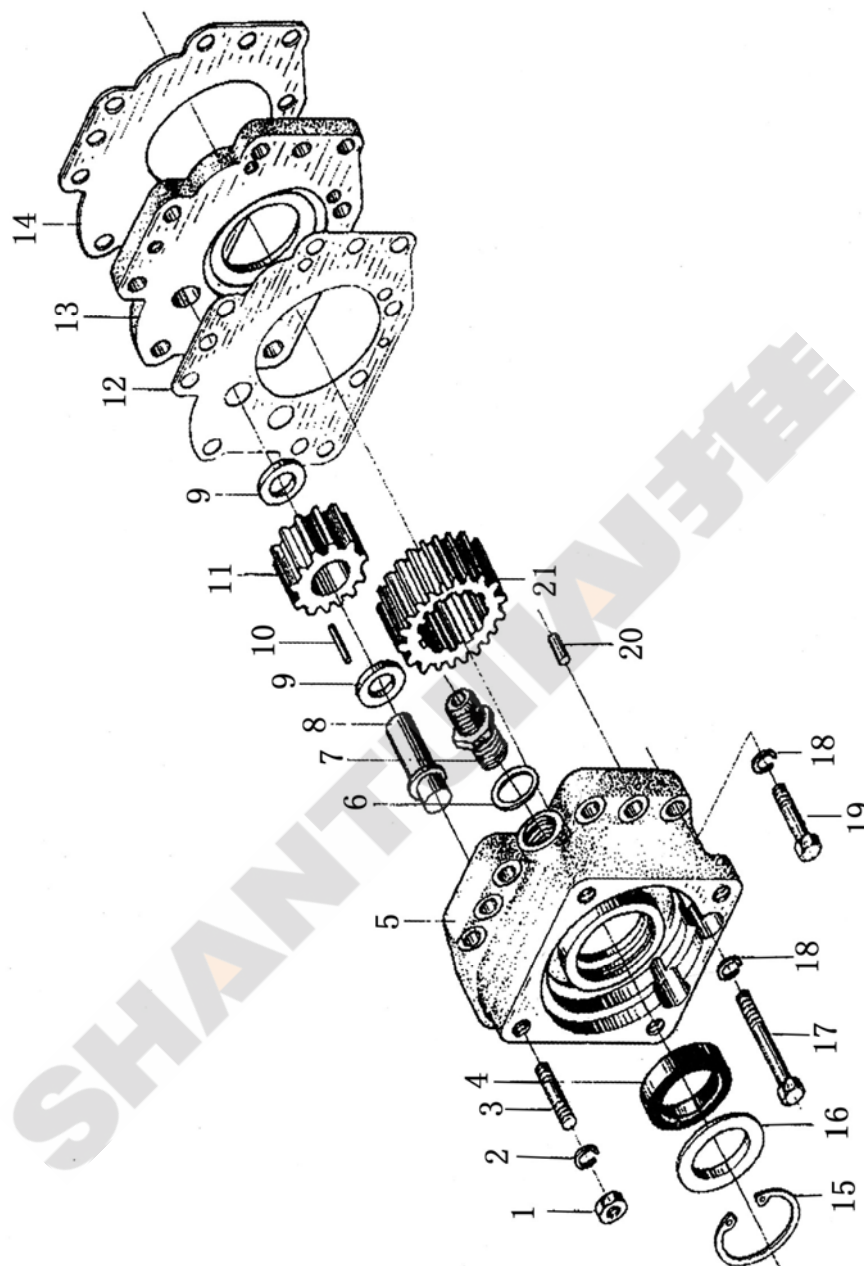


油池总成

OIL SUMP ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
110-1	403406	密封垫 sealing pad	2
2	403403-404	滤垫 filter screen support	1
3	403408	磁铁 permanent magnet Φ80	2
4	403405	隔板 bed piece	2
5	GB93-87	垫圈 6 washer 6	4
6	GB5783-86	螺栓 M6×25 bolt M6×25	4
7	402223	锥堵 ZG3/4" plug screw ZG3/4"	1
8	403401-402 -410-412	油池 oil sump	1

第 111 图 变速泵总成
FIG.111 SPEED-CHANGING GEAR PUMP



变速泵总成

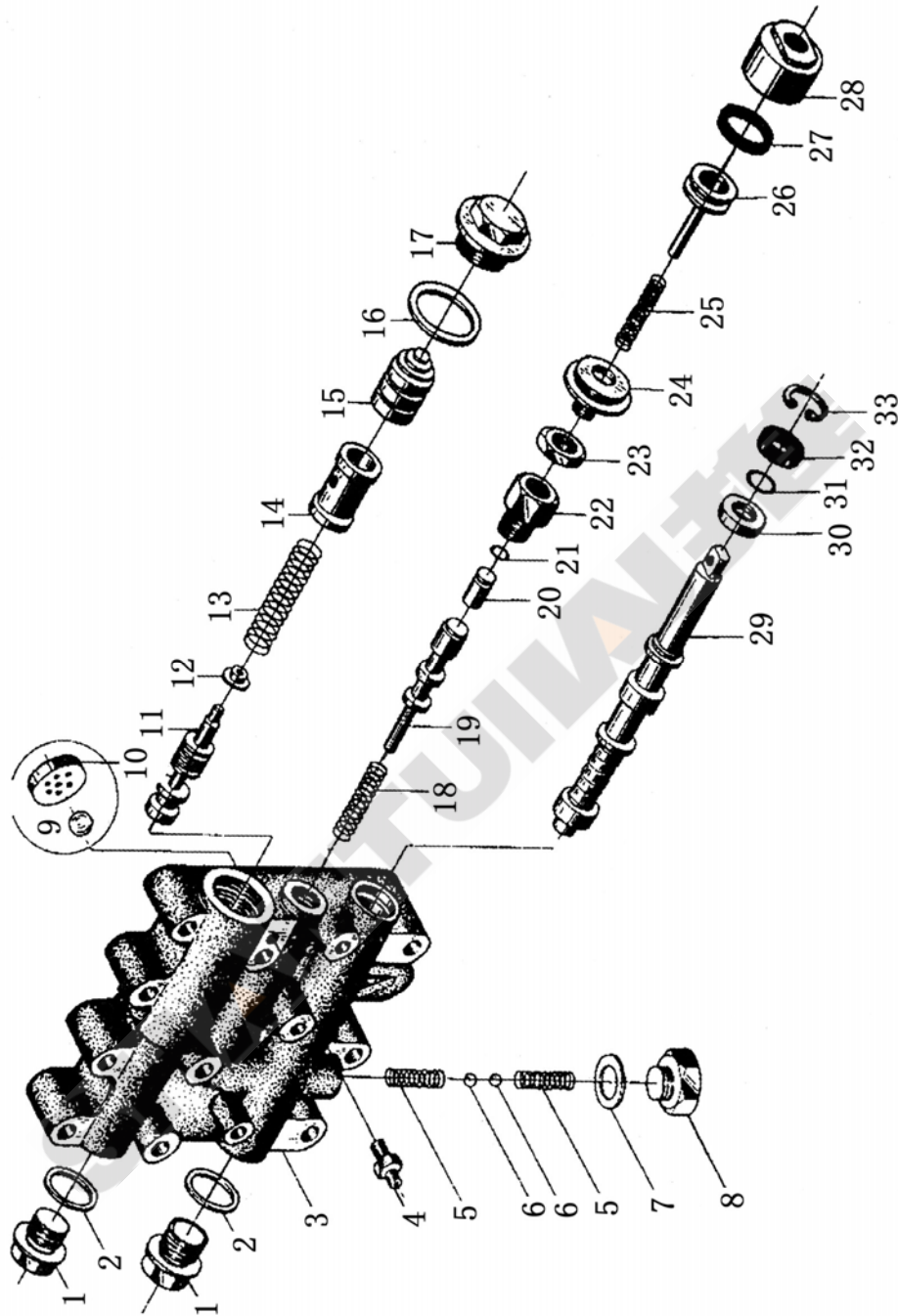
SPEED-CHANGING GEAR PUMP

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
111-1	GB6170-86	螺母 M12 nut M12	4
2	GB93-87	垫圈 12 washer 12	4
3	GB897-74	双头螺柱 stud AM 12×35	4
4	GB2600-80	密封圈 cased seal PG45×62×12	1
5	403601	泵体 prop body	1
6	402106	垫圈 washer	1
7	402111	联接接头 union joint	1
8	403603	轴 shaft	1
9	403611	隔套 spacing bushing	2
10	GB309-84	销 $\Phi 4 \times 30$ needle $\Phi 4 \times 30$	18
11	403602	小齿轮 pinion	1
12	403606	密封垫 sealing pad	1
13	403608	泵盖 pump cover	1
14	403609	密封垫 sealing pad	1
15	GB893.1-86	挡圈 sprag	1
16	403604	挡环 baffle ring	1
17	GB5782-86	长螺栓 large-end bolt M10×75	2
18	GB93-87	垫圈 10 washer 10	8
19	GB5782-86	短螺栓 small-end bolt M10×50	6
20	GB119-86	销 A10×30 pin A10×30	2
21	403605	齿轮 gear wheel	1

第 112 图

变速操纵阀

FIG.112 SPEED-CHANG CONTROL VALVE

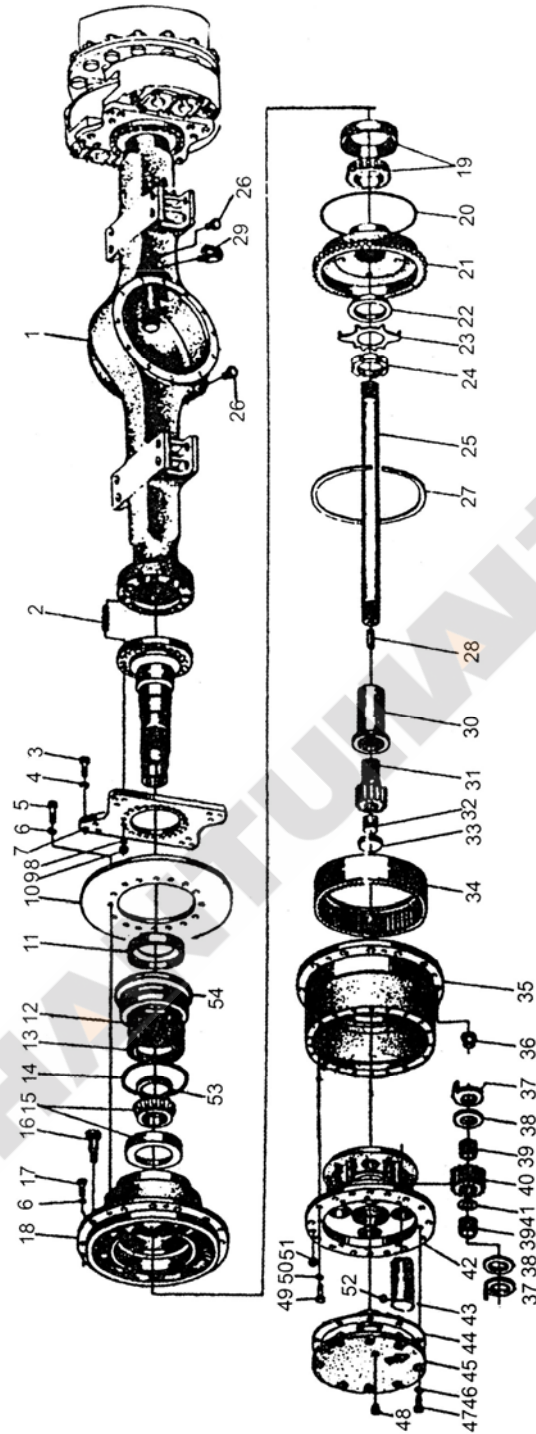


变速操纵阀

SPEED-CHANG CONTROL VALVE

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
112-1	403702	丝堵 bolt	2
2	402106	垫圈 washer	2
3	403701A	阀体 valve body	1
4	403727	压力表接头 pressure gauge connecter	1
5	403707	弹簧 spring	2
6	GB308-84	钢球 steel ball 12.7	2
7	402001	垫圈 spacer	1
8	403710	丝堵 bolt	1
9		塑料球 plastic ball 3/16"	1
10	403726	圆板 round board	1
11	403704	阀杆 relief valve stem	1
12	403725	弹簧座 spring carrier	1
13	403724	弹簧 spring	1
14	403723	安装座 setting sleeve	1
15	403722	滑块 sliding block	1
16	403721	垫圈 washer	1
17	403720	丝堵 bolt	1
18	403706	弹簧 spring	1
19	403705	阀杆 brake valve stem	1
20	403718	圆柱调节销 cylindrical plug screw	1
21	GB1235-76	O 形圈 13×1.9 O-ring 13×1.9	1
22	403719	螺栓 bolt	1
23	403717	螺母 nut	1
24	403712	气阀座 air valve seat	1
25	403714	弹簧 spring	1
26	403713	气阀杆 air valve stem	1
27	403715	Y 型密封圈 Y-type sealing ring 32×40	1
28	403716	气阀体 air valve body	1
29	403708	分配阀杆 distribution valve stem	1
30	403711	挡圈 sprag	1
31	GB1235-76	O 形圈 D22×2.4 O-ring D22×2.4	1
32	JB2600-80	密封圈 cased seal PD18×30×10	1
33	GB893.1-86	挡圈 30 sprag 30	1

第 113 图 驱动桥总成
FIG.113 AXLE ASSEMBLY

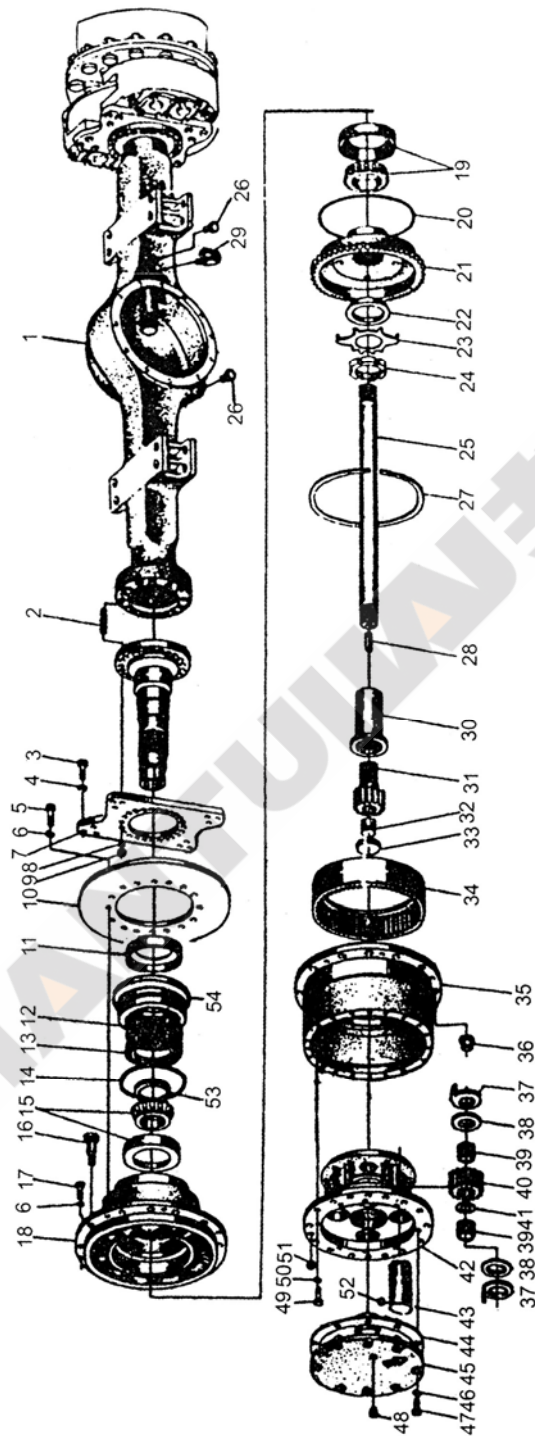


驱动桥总成

AXLE ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
113-1	ZL60D.24-1	桥壳	1
2	ZL60D.24.1-33	桥壳与轴头连接螺柱	32
3	GB5783-86	螺栓 M20×55	24
4	GB93-87	垫圈 20	24
5	GB5783-86	螺栓 M16×45	32
6	GB93-87	垫圈 16	32
7	ZL60D.24.1-1	制动钳支架	2
8	GB971-85	垫圈 20-300HV	32
9	GB6171-86	螺母 M20×2	32
10	ZL60D.24.1-28	制动盘	2
11	ZL60D.24.1-29	防尘圈	2
12	HG4692-67	油封 PD140×170×16	2
13	HG4-692-67	油封 SD140×170×16	2
14	GB3452.1-82	O 型圈 175×5.3	2
15	GB297-84	轴承 2007124E	2
16	GB6171-86	螺母 M22×1.5	24
17	ZL60D.24-2	轮辋螺栓	24
18	ZL60D.24.1-27	轮毂	2
19	GB297-84	轴承 2007128E	2
20	GB3452.1-82	O 型圈 387×7	2
21	ZL60D.24.1-19	齿圈支承	2
22	ZL60D.24.1-10	锥套	2
23	ZL60D.24.1-20	止退垫圈	2
24	ZL60D.24.1-11	同螺母	2
25	ZL60D.24.1-25	半轴	2
26	ZL60D.24-6	螺塞	2
27	ZL60D.24.1-23	卡环	2
28	60D.24.1-13	螺钉 M20×2×50	2
29	ZL60D.24.5	呼吸器总成	1
30	ZL60D.24.1-12	联接套	2
31	ZL60D.24.1-16	太阳轮	2
32	ZL60D.24.1-15	调整支柱	2
33	ZL60D.24.1-14	挡块	2
34	ZL60D.24.1-3	齿圈	2
35	ZL60D.24.1-1	中节	2
36	ZL60D.24-2	轮辋螺母组件	24
37	ZL60D.24.1-17	行星轮垫	16
38	ZL60D.24.1-18	行星轮中间垫片	16
39	ZL60D.24.1-9	滚针	464

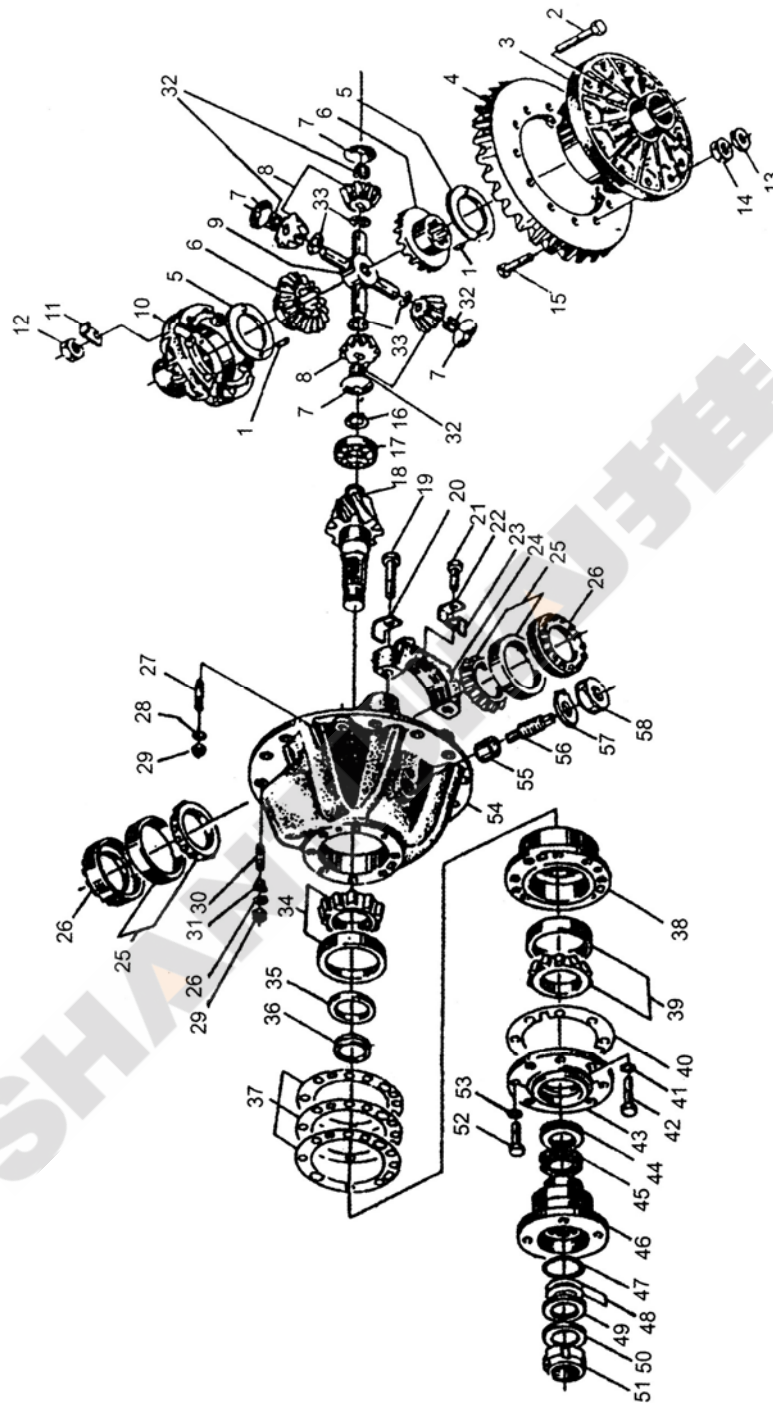
第 113 图 驱动桥总成
FIG.113 AXLE ASSEMBLY



驱动桥总成
AXLE ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
113-40	ZL60D.24.1-4	行星轮 planet gear	8
41	ZL60D.24.1-8	隔套 isolating sleeve	8
42	ZL60D.24.1-2	行星架 planet carrier	2
43	ZL60D.24.1-7	行星轮轴 planet shaft	8
44	ZL60D.24.1-5	密封垫 seal gasket	2
45	ZL60D.24.1-6	端盖 end cover	2
46	GB93-87	垫圈 14 washer 14	16
47	GB5786-86	螺栓 M14×1.5×30 bolt M14×1.5×30	16
48	JB/ZQ3874-86	螺塞 BZG3/4" plug B ZG3/4"	2
49	ZL60D.24.1-21	小六角头铰制孔螺栓 bolt	32
50	GB848-85	垫圈 16-200HV washer 16-200HV	32
51	JB/ZQ3874-86	螺塞 BZG1/2" thread plug BZG1/2"	2
52	GB308-89	钢球 3/8" steel ball 3/8"	8
53	ZL60D.24.1-24	垫圈 washer	2
54	ZL60D.24.1-26	油封座 seal retainer	2

第 114 图 主减速器及差速器
FIG.114 MAIN REDUCER & DIFFERENTIAL

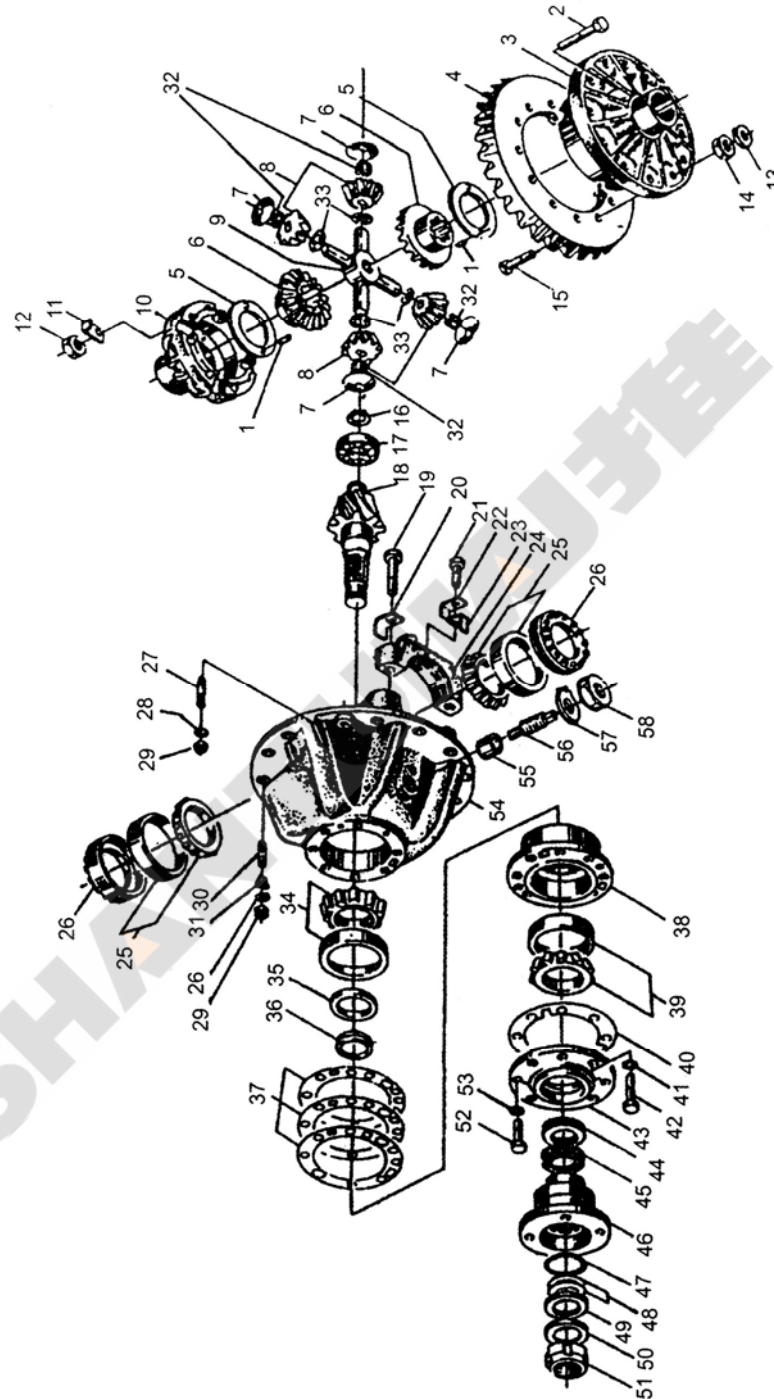


主减速器及差速器

MAIN REDUCER & DIFFERENTIAL

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
114-1	ZL60D.24-19	销 pin	4
2	ZL50B 11-25	凸缘螺栓 bolt for flange	8
3	ZL50B 11-20/21	差速器壳体(小)/(大) differential case	1
4	ZL50B 11-13	从动螺旋伞齿轮 (前桥右旋, 后桥左旋) spiral bevel gear (R turning/F axle , L turning/R axle)	各 1
5	ZL50B11-22	半轴齿轮垫片 thrust washer	2
6	ZL50B 11-14	半轴齿轮 spider gear	2
7	ZL50B 11-24	行星轮垫片 planet gear spacer	4
8	ZL50B 11-15	行星齿轮 planet gear	4
9	ZL50B 11-23	十字轴 cardan shaft	1
10	ZL60D.24.4-29	差速右壳 right case of differential	1
11	GB855-88	垫圈 16 washer 16	8
12	GB6171-86	螺母 M16×1.5 nut M16×1.5	8
13	GB6171-86	螺母 M14×1.5 nut M14×1.5	12
14	GB93-87	垫圈 14 washer t4	12
15	ZL60D.24.4-28	螺栓 M14×1.5×52 bolt 14×1.5×52	12
16	GB984.1-86	挡圈 40 sprag 40	1
17	GB283-87	轴承 92308 bearing 92308	1
18	ZL50B 11-12	主动螺旋伞齿轮 (前桥右旋, 后桥左旋) spiral bevel gear (L tuning/F axle, R turning/R axle)	各 1
19	ZL50B 11-4	差速器支架连接螺栓 connect bolt on differential frame	4
20	GB93-87	垫圈 24 washer 24	4
21	GB5783-86	螺栓 M10×20 bolt M10×20	2
22	GB855-88	垫圈 10 washer 10	2
23	ZL50B 11-6	锁紧片 lock shim	2
24	ZL60D.24.4-25	差速器支架盖 differential frame cow	2
25	GB292-84	轴承 2007118E bearing 2007118E	2
26	ZL50B 11-9	差速器螺母 differential nut	2
27	ZL60D.24-5	长螺栓 long bolt	2
28	GB97.1-85	垫圈 14-140HV washer 14-140HV	14
29	GB6171-86	螺母 M14×1.5 nut M14×1.5	14
30	ZL60D.24-3	短螺栓 short bolt	12
31	ZL60D-24-4	锥套 taper sleeve	3
32	ZL60D.24.4-20	衬套 bush	4
33	ZL60D.24.4-21	衬垫 spacer	4
34	GB292-64	轴承 27314E bearing 27314E	1
35	ZL60D.24-11	轴承隔套 bearing sleeve	1

第 114 图 主减速器及差速器
FIG.114 MAIN REDUCER & DIFFERENTIAL

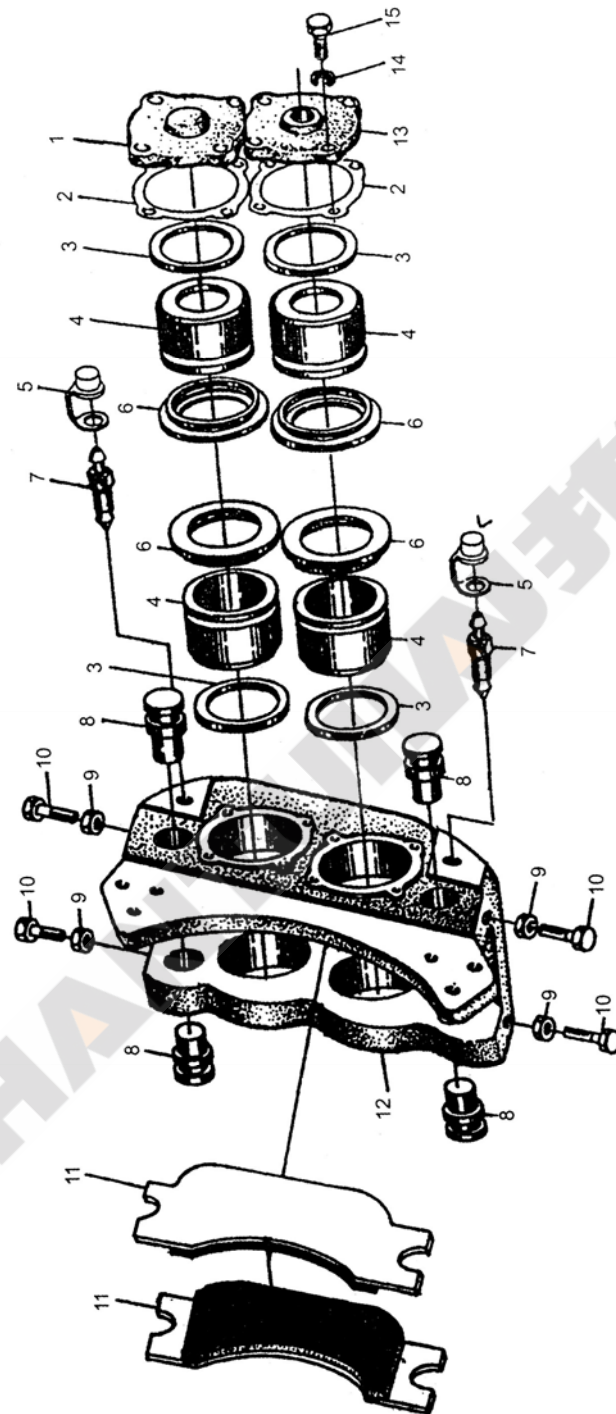


主减速器及差速器

MAIN REDUCER & DIFFERENTIAL

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
114-36	ZL60D.24.4-10	调整垫片 adjusting spacer	1 组
37	ZL50B 11-7	调整垫片 adjusting spacer	1 组
38	ZL50B 11-2	轴承座 bearing seat	1
39	GB297-84	圆锥轴承 27313E bearing 27313E	1
40	ZL60D.24.4-9	密封垫 sealing spacer	1
41	GB93-87	垫圈 12 washer 12	1
42	GB5785-86	螺栓 M12×1.5×55 bolt M12×1.5×55	1
43	ZL50B 11-1	端盖 end cover	1
44	HG4-692-67	油封 SG80×100×12 oil seal SG80×100×12	1
45	ZL50B 11-7	油封 PG80×100×12 oil seal PG80×100×12	1
46	ZL50B-1	输入法兰 flange	1
47	GB3452.1-82	O 型密封圈 56×3.55 "O"-ring 56×3.55	1
48	ZL60D.24.4-4	调整垫片 adjusting spacer	1 组
49	ZL60D.24.4-3	挡板 apron	2
50	ZL60D.24.4-6	垫圈 washer	1
51	ZL50B 11-19	锁紧螺母 M30×1.5 lock nut M30×1.5	1
52	GB5785-86	螺栓 M14×1.5×50 bolt M14×1.5×50	7
53	GB93-87	垫圈 14 washer 14	7
54	ZL50B 11-11	主减速器壳体 main reducer case	1
55	ZL60D.24.4.1-2	铜限位销 copper pin	1
56	ZL60D.24.4.1-1	螺柱 bolt	1
57	ZL60D.24.4-32	止动垫圈 lock washer	1
58	ZL60D.24.4-33	螺母 nut	1

第 115 图 制动钳总成
FIG.115 PLIERS ASSEMBLY



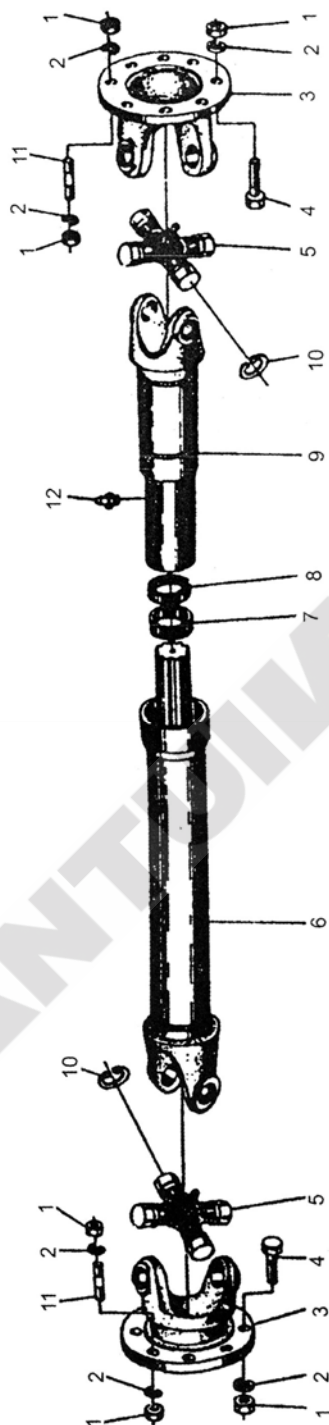
制动钳总成
PLIERS ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
115-1	GB6170-86	上油缸盖	upper cylinder head	1
2		纸垫	paper gasket	2
3		矩形密封圈 70	rectangle seal ring 70	4
4		活塞	piston	4
5		防污帽	cover	2
6		防尘圈	dust ring	2
7		放气嘴	air bleed valve	2
8		销轴	pin shaft	2
9		螺母 M10	nut M10	4
10		止动螺钉	lock screw	4
11	GB93-87	摩擦衬块总成	friction spacer assembly	2
12		钳体	plier	1
13		下油缸盖	lower cylinder head	1
14		垫圈 10	lock washer 10	8
15		螺栓 M10×30	bolt M10×30	8

第 116 图

前、后、中间传动轴总成

FIG.116 FRONT (REAR & MIDDLE) DRIVING SHAFT ASSEMBLY

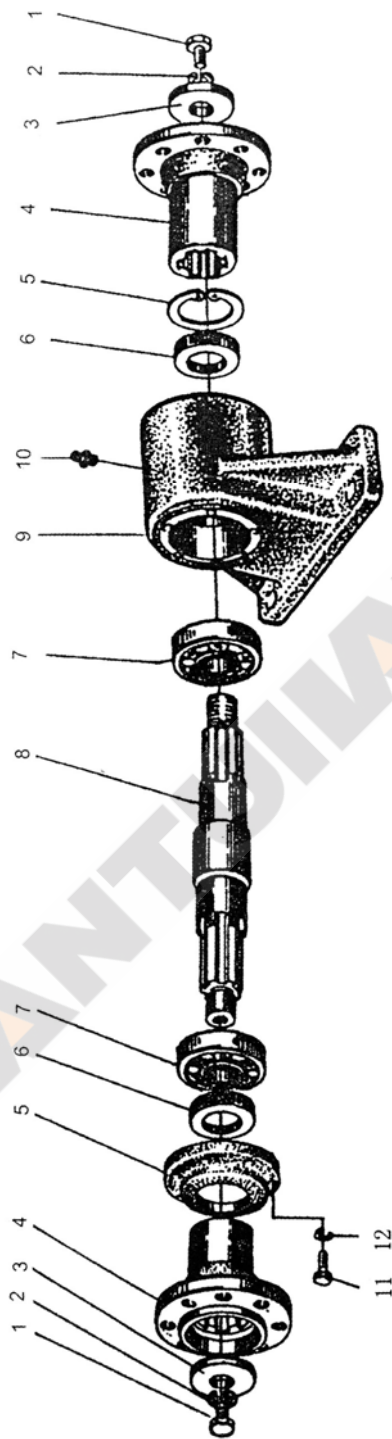


前、后、中间传动轴总成

FRONT (REAR & MIDDLE) DRIVING SHAFT ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
	ZL50G3-04001	后传动轴总成 rear driving shaft assembly	1
	ZL50G3-04004	前、中间传动轴总成 front & middle driving shaft assembly	2
116-1	GB6171-86	螺母 M16×1.5 nut M16×1.5	52
2	GB93-87	垫圈 16 washer 16	60
3		突缘叉 flanged yoke	2
4	GB5785-86	螺栓 M16×1.5×45 bolt M16×1.5×45	28
5		万向节总成 cardan joint	2
6		花键轴总成 spline shaft assembly	1
7		滑套 sliding sleeve	1
8		密封圈 seal ring	1
9		滑动叉 sliding yoke	1
10		孔用挡圈 sprag	8
11	ZL50G2-04001	双头螺栓 stud	12
12	GB1152-79	油杯 M10×1 oil cup M10×1	1

第 117 图 传动轴支座
FIG.117 FRAME OF DRIVING SHAFT

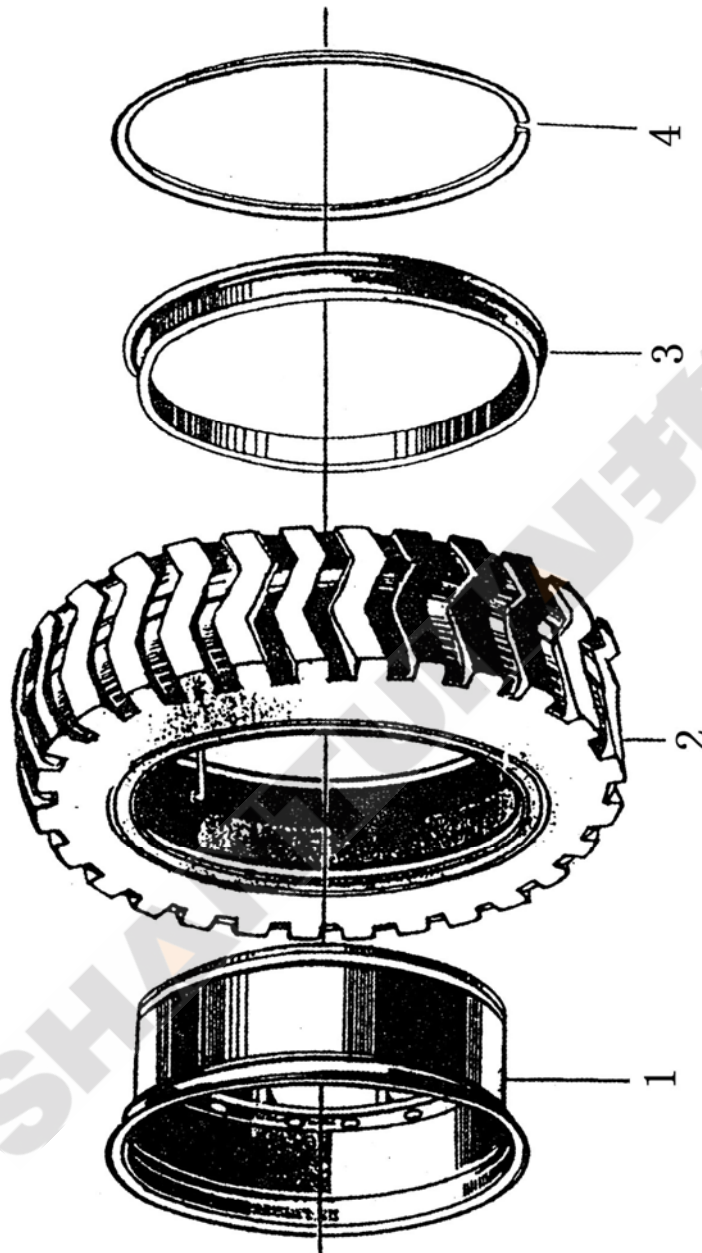


传动轴支座

FRAME OF DRIVING SHAFT

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
117-1	GB5783-86	螺栓 M20×55 bolt M20×55	2
2	GB98-87	垫圈 20 washer 20	2
3	ZL50G2-04301	压板 clamping plate	2
4	ZL50G2-04302	连接法兰 connecting flange	2
5	ZL50G2-04305	轴承盖 bearing cover	2
6	GB13871-92	油封 PD70×95×10 oil seal PD70×95×10	2
7	GB276-89	轴承 6312 bearing 6312	2
8	ZL50G2-04304	连接轴 connecting shaft	1
9	ZL50G2-04303	轴承座 bearing seat t	1
	ZL50G3-04303	轴承座 bearing seat	1
10	GB1152-79	油杯 M10×1 oil cup M10×1	1
11	GB93-87	垫圈 10 washer 10	12
12	G B5789-86	螺栓 M10×30 bolt M10×30	12

第 118 图 轮胎轮辋总成
FIG.118 TYRE & RIM ASSEMBLY



轮胎轮辋总成

TYRE & RIM ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
118-1	ZL50G2-04008	轮辋 19.5/2.5-25 rim 19.5/2.5-25	4
2	ZL50G2-04010	轮胎总成 tyre assembly	4
		23.5-25-16 PR 23.5-25-16 PR	
3		外轮缘 band	4
4		锁环 lock ring	4

制 动 系 统

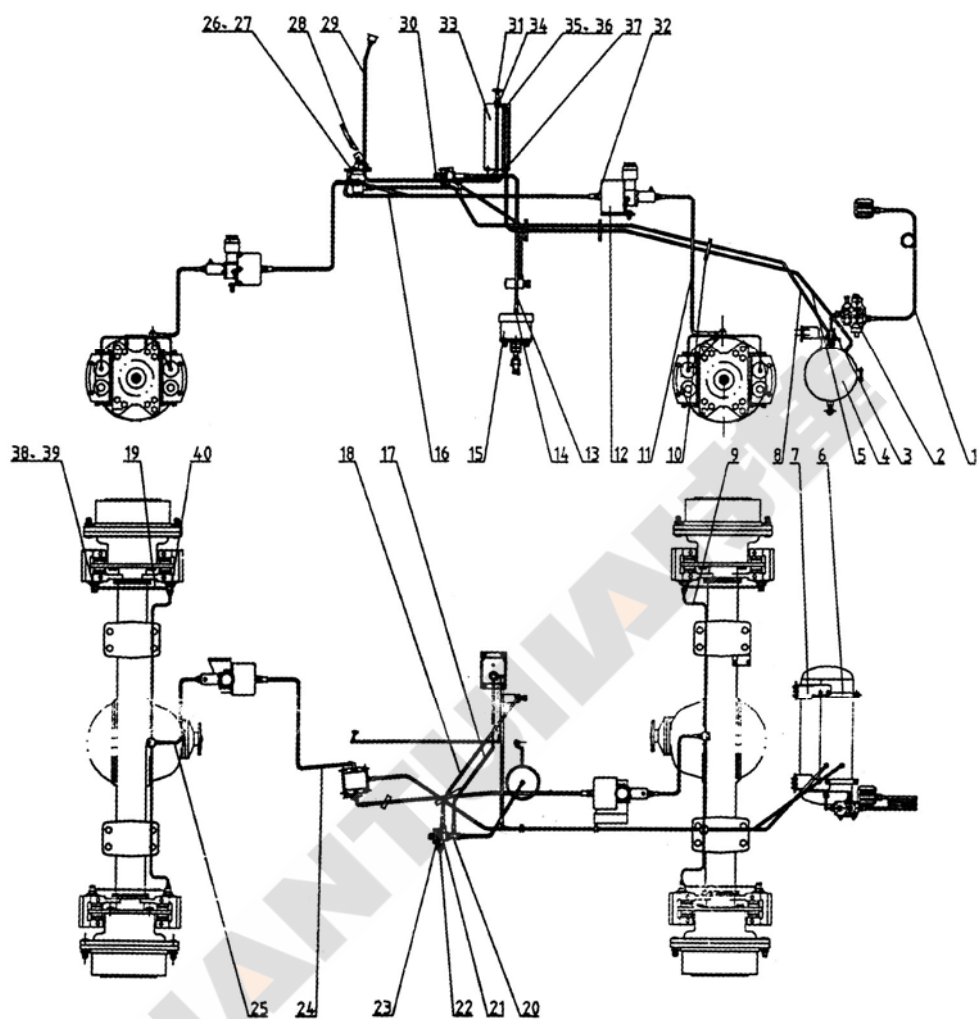
BRAKE SYSTEM

SHANTUI 手册

第 201 图

整机制动系统

FIG.201 BRAKE SYSTEM FOR WHOLE MACHINE



整机制动系统

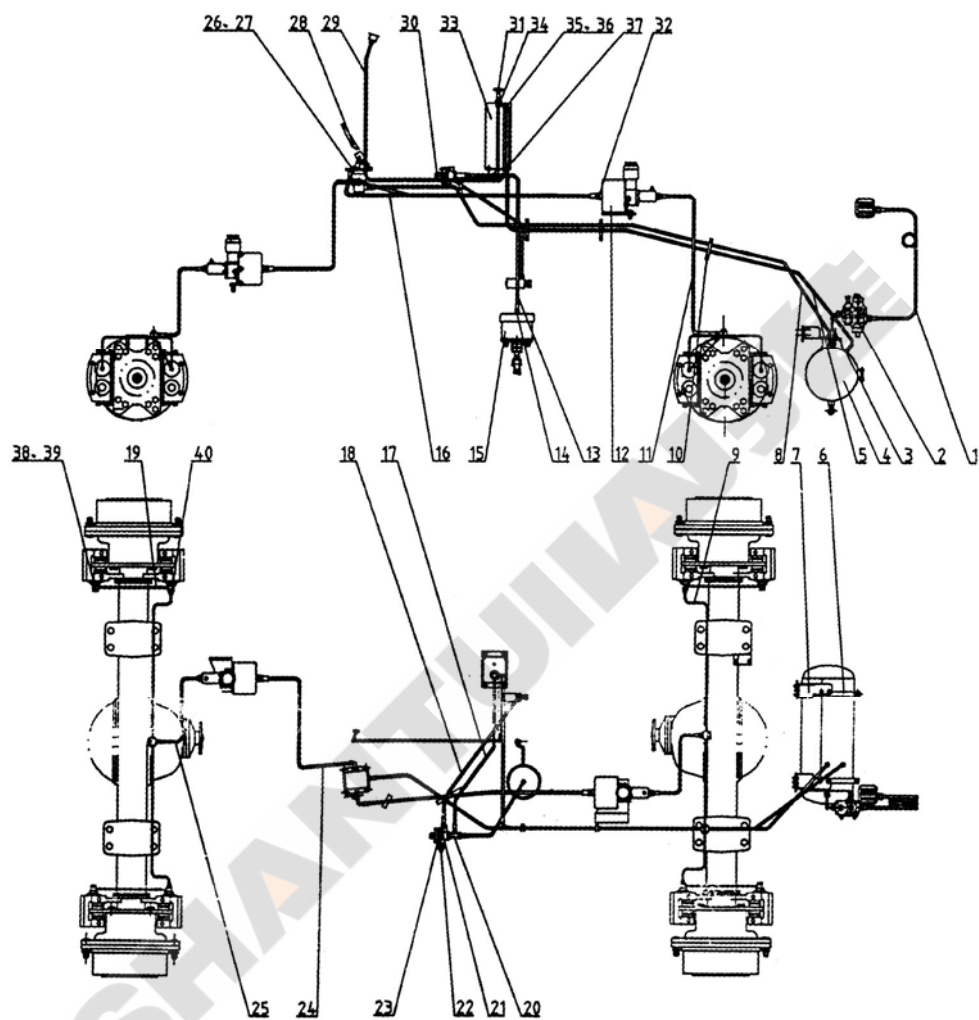
BRAKE SYSTER FOR WHOLE MACHINE

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
201-1	ZL50G2-07008	空压机出气管	air outlet pipe of compressor	1
2	SH380A-3511002	油水分离器组合阀	combined valve of warer	1
3	ZL50G2-07006B	贮气筒进气管	inlet pipe of air storage tank	1
4	ZL50G2-07009	贮气筒总成	air storage tank	1
5	ZL50G2-07034	贮气筒至手控阀气管	hose air reservoir to manually controlled brake valve	1
6	ZL50G2-07022	贮气筒箍	hoop of air storage tank	2
7	ZL50G2-07021	支架	set plate	2
8	ZL50G2-07032	贮气筒至脚制动阀气管	hose air reservoir to airbrake valve	1
9	ZL50G2-07024A	刹车管	oil pipe assy, brake	2
10	GB5783-80	螺栓 M6×40	bolt M6×40	6
11	ZL50G2-07027	后刹车泵后桥软管	hose, rear air boosting pump to rear axle	1
12	XZ60A-3510001	空气加力泵	air boosting pump	2
13	ZL50G2-07037	气控阀至制动气室气管	hose, air-controlled cut-off valve	1
14	ZL50G2-07004	接头体	tie-in	3
15	DZ50A-3507002	驻车制动气室	parking brake air cavity	1
16	ZL50G2-07037	脚制动阀至后泵气管	hose air brake valve to rear air boosting pump	1
17	DG956W-07017	手控阀至气控阀气管	hose, manually controlled brake valve to air-controlled out-off valve	1
18	ZL50G3-07036	气控阀至切断阀气管(L=1200)	hose, air-controlled out-off valve to switch valve	1
19	ZL50G2-07014A	刹车管	oil pipe assy, brake	4
20	ZL50G2-07002	三通接头	"T" connector	1
21	QZ50A-3516002	气控截止阀	air-controlled cut-off valve	1
22	ZL50G2-07020	接头体（气控阀带）	tie-in	1
23	ZL50G2-07001	接头体	tie-in	1
24	ZL50G2-07030	前刹车泵至脚制动阀管	hose, front air boosting pump to air brake valve	1
25	ZL50G2-07031	前刹车泵至前桥软管	hose, front air boosting pump to front axle brake	1
26	GB5781-86	螺栓 M8×30	bolt M8×30	4
27	GB93-87	弹簧垫圈 8	lock washer 8	8
28	60C-3214002	气制动阀(带脚踏板)	air broke valve (with pedal)	1

第 201 图

整机制动系统

FIG.201 BRAKE SYSTER FOR WHOLE MACHINE

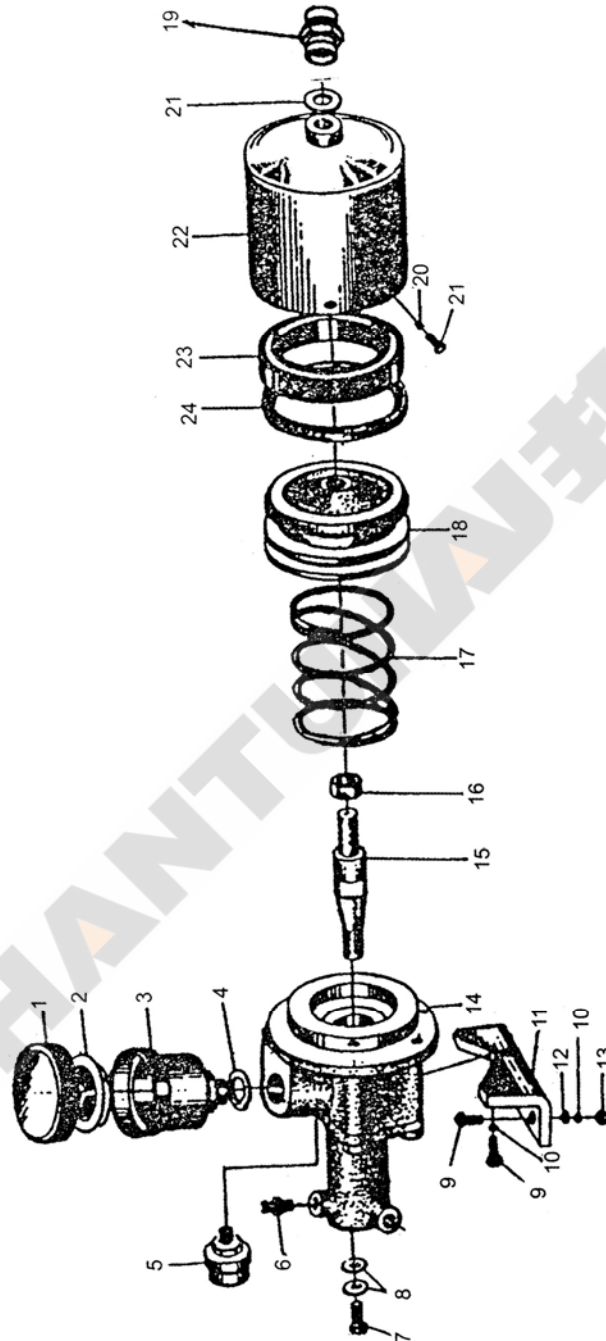


整机制动系统

BRAKE SYSTER FOR WHOLE MACHINE

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
201-29	DG956W-07001	气压表管(仪表台带) cawcted barcmeter hose assembly	1
30	DG956W-07038	堵 stop up	1
31	QZ50A-352b001	手控制动阀 manually controlled brake valve	1
32	ZL50G2-07003	接头体 tie-in	6
33	DG956W-07039	支架 set plate	1
34	ZL50G2-07024	螺塞 Whorl stopper	1
35	ZL50G2-07018	三通接头 "T" connector	1
36	ZL50G2-07019	接头体 tie-in	1
37	GB5781-86	螺栓 bolt M8×20	4
38	ZL50G2-07015	铰接螺栓 bolt	4
39	JB982-77	组合垫圈 12 assembled washer12	16
40	ZL5062-07013	铰接螺栓 bolt	4

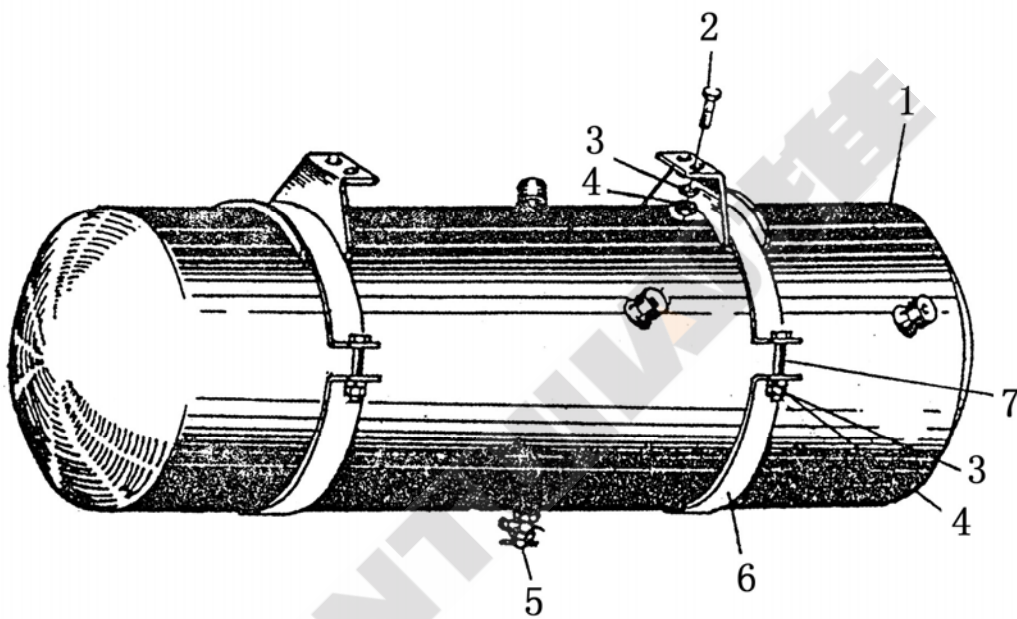
第 202 图 加力器
FIG.202 POWER CLUSTER



加力器
POWER CLUSTER

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
202-1		油杯盖 oil cup cover	1
2		过滤套 filter sleeve	1
3		油杯体 oil cup	1
4	GB1235-76	O 型圈 40×3.1 "O"-ring 40×3.1	1
5		放气嘴 air valve	1
6		接头 connector	1
7		管接头 joint	1
8		垫圈 washer	2
9	GB5781-86	螺栓 M10×25 Bolt M10×25	4
10	GB93-87	垫圈 10 washer 10	4
11		支架 bracket	1
12	GB97.1-85	垫圈 10 washer 10	1
13	GB6170-86	螺母 M10 nut M10	4
14		制动泵体 central brake pump	2
15		推杆 push rod	1
16	GB6173-86	螺母 M12×1.5 nut M12×1.5	1
17		弹簧 spring	1
18		活塞 piston	1
19	ZL50G2-07003	接头体 coupling body	1
20	GB859-86	垫圈 8 washer 8	6
21	GB5781-86	螺栓 M8×16 bolt M8×16	6
22		加力缸 cylinder	1
23		Yx 型密封圈 Yx seal ring	1
		密封圈 seal ring	1

第 203 图 贮气筒总成
FIG.203 AIR STORAGE TANK

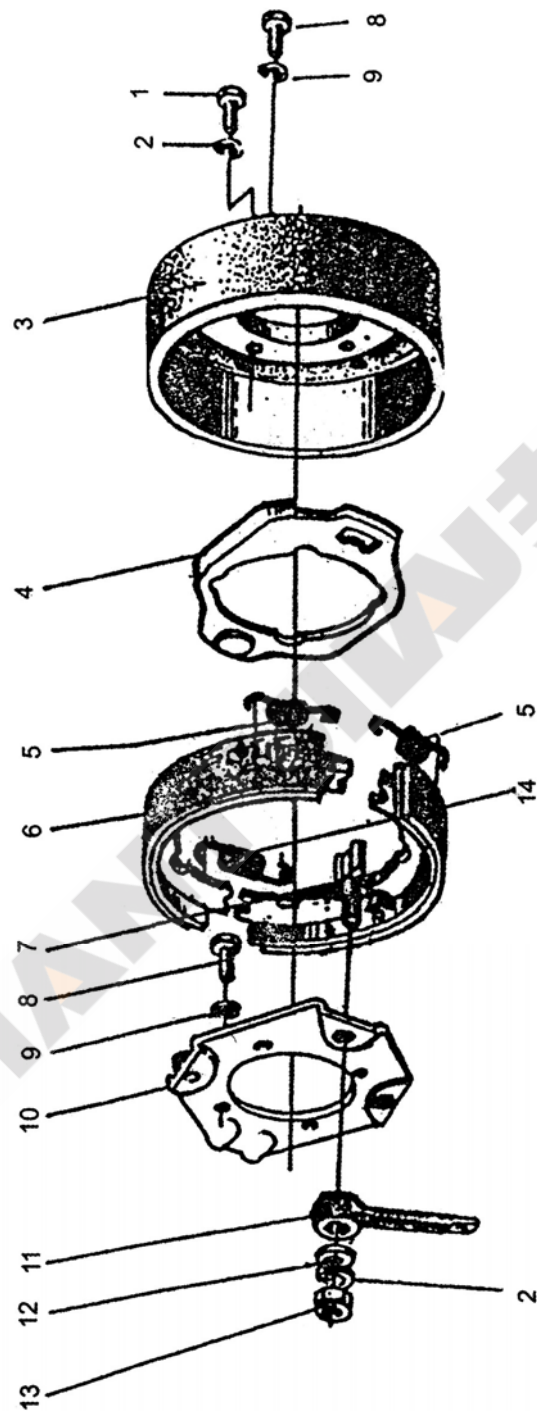


贮气筒总成

AIR STORAGE TANK

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
203-1	ZL50G2-07009	贮气筒总成 air storage tank assembly	1
2	GB5781-86	螺栓 M10×30 salt M10×30	4
3	GB93-87	垫圈 10 lock washer 10	6
4	GB6170-86	螺母 M10 nut M10	6
5	STR-3533002	手动放水阀 drain valve	1
6	ZL50G2-07022	贮气筒箍 air reservoir belt	2
7	GB5781-86	螺栓 M10×70 bolt M10×70	2

第 204 图 紧急与停车制动器
FIG.204 EMERGENCY & PARKING BRAKE



紧急与停车制动器

EMERGENCY & PARKING BRAKE

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
204-1	GB5786-86	螺栓 M16×1.5×30	bolt M16×1.5×30	4
2	GB93-87	垫圈 16	washer 16	5
3		制动毂	brake hub	1
4		座板	support plate	1
5		弹簧	spring	2
6		制动蹄	brake hoof	2
7		拉杆轴	linkage rod shaft	1
8		螺栓 M14×1.5×35	bolt M14×1.5×35	12
9	GB93-87	垫圈 14	washer l4	12
10		座板	support plate	1
11		拉杆	linkage rod shaft	1
12	GB97.1-85	垫圈	washer	1
13	GB6171-86	螺母 M16	nut M16	1
14		弹簧	spring	1

传 动 液 压 系 统

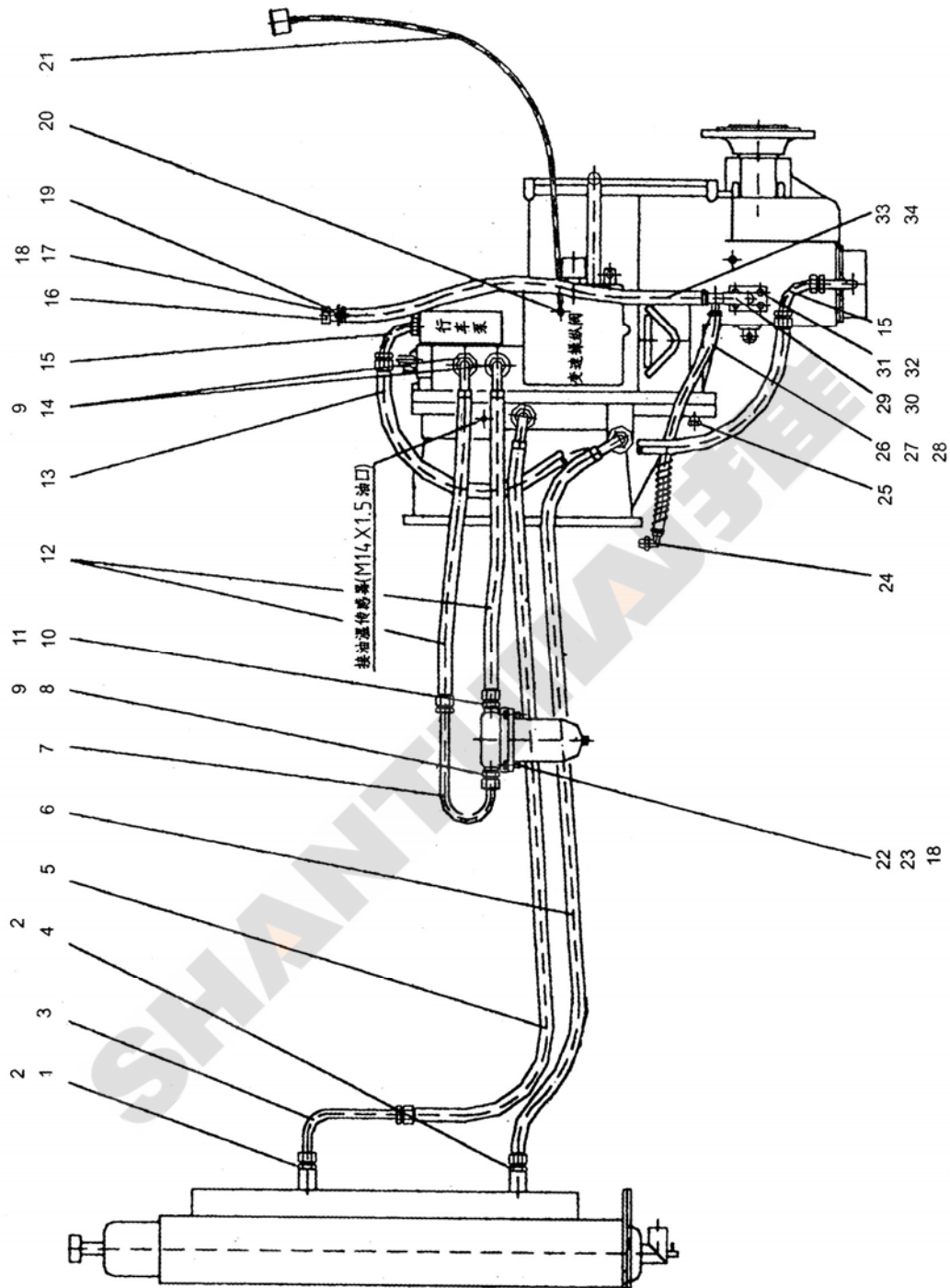
TRANSMISSION HYDRAULIC SYSTEM

SHANTUI 三一

第 301 图

传动液压系统

FIG.301 TRANSMISSION HYDRAULIC SYSTEM

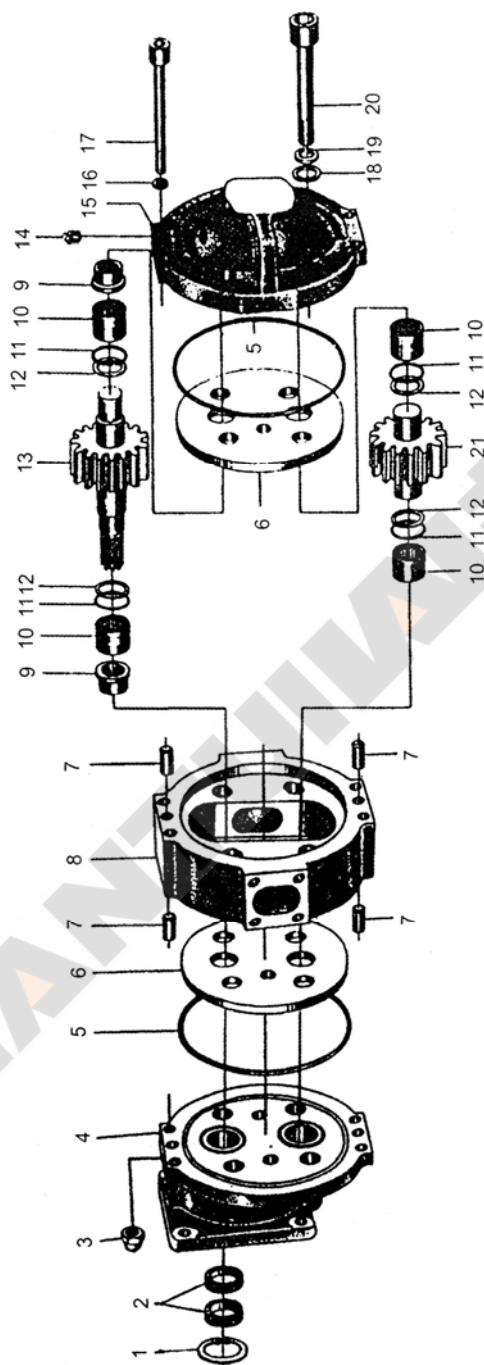


传动液压系统

TRANSMISSION HYDRAULIC SYSTEM

序号 No.	件 号 Part No.	名 称 Description		数量 Q'ty	备注 Remark
301-1	ZL50G3-12001	散热器进油接头	oil cooler inlet joint	1	同 ZL50G2-12017
2	JB982-77	组合垫圈 24	lock washer 24	2	同 ZL50G2-12018
3	ZL50G3-12002	散热器进油钢管	oil cooler inlet oil sted tube	1	同 ZL50G2-12016
4	ZL50G3-12003	散热器出油接头	oil cooler outlet joint	1	一端 90°弯头
5	JH100-81	软管总成 191-2180	hose assembly 191-2180	1	一端 90°弯头
6	JH100-81	软管总成 191-2380	hose assembly 191-2380	1	
7	ZL50G3-12004	滤油器钢管	oil filer steel tube	1	
8	ZL50G3-12005	滤油器接头	oil filter joint	1	
9	JB982-77	组合垫圈 30	lock washer 30	5	
10	ZL50G3-12006	接头体	coupling body	1	
11	JB982-77	组合垫圈 22	lock washer 22	1	
12	JH100-81	软管总成 191-850	hose assembly 191-850	2	一端 90°弯头
13	JH100-81	软管总成 251-1508	hose assembly 251-1580	1	变速箱带
14	ZL50G3-12007	变速箱接头	joint of gear box	3	同 ZL50G2-12021
15	ZL50G3-12008	接头总成	joint assembly	2	
16	ZL50G3-12009	大螺母	big nut	1	
17	GB5783-86	螺栓 M8×25	bolt M8×25	2	
18	GB93-87	弹簧垫圈 8	lock washer 8	6	
19	ZL50G3-12010	加油钢管	oil filler steel tube	1	同 ZL50G2-12020
20	ZL50G3-12015	压力表接头	oil pressure gauge joint	1	
21	ZL50G3-12011	操纵阀测压管	control valve oil pressure tube	1	
22	GB5783-86	螺栓 M8×25	bo1t M8×25	4	
23	GB6170-86	螺母 M8	nut M8	4	
24	ZL50G3-12017	发动机飞轮壳接头	engine fly wheel case joint	1	
25	ZL50G3-12016A	锥丝堵	pyramidal plug	1	
26	ZL50G3-12014	低压耐油胶管 Φ13	low pressure oil resisto tub	1	L=950
		双钢丝卡箍(20-24)	Φ13		
27		弹簧护套	double steel wire hose	2	
		变速箱加油钢管	clamp (20-24)		
28	ZL50G3-12020	O 形圈 32.5×3.55	spring jacket	1	
29	ZL50G3-12013A	垫圈 10	gear box oil filler tube	1	
30	GB3452.1-82	螺栓 M10×25	"O"-ring 32.5×3.55	1	
31	GB93-87	低压耐油胶管 Φ22	lock washer 10	4	
32	GB5783-86	双钢丝卡箍(31-35)	bolt M10×25	4	
33	ZL50G3-12012		low pressure oil resistant tube Φ22	1	L=140
34			double steel wire hose clamp (31-35)	2	

第 302 图 齿轮泵总成
FIG.302 GEAR PUMP ASSEMBLY

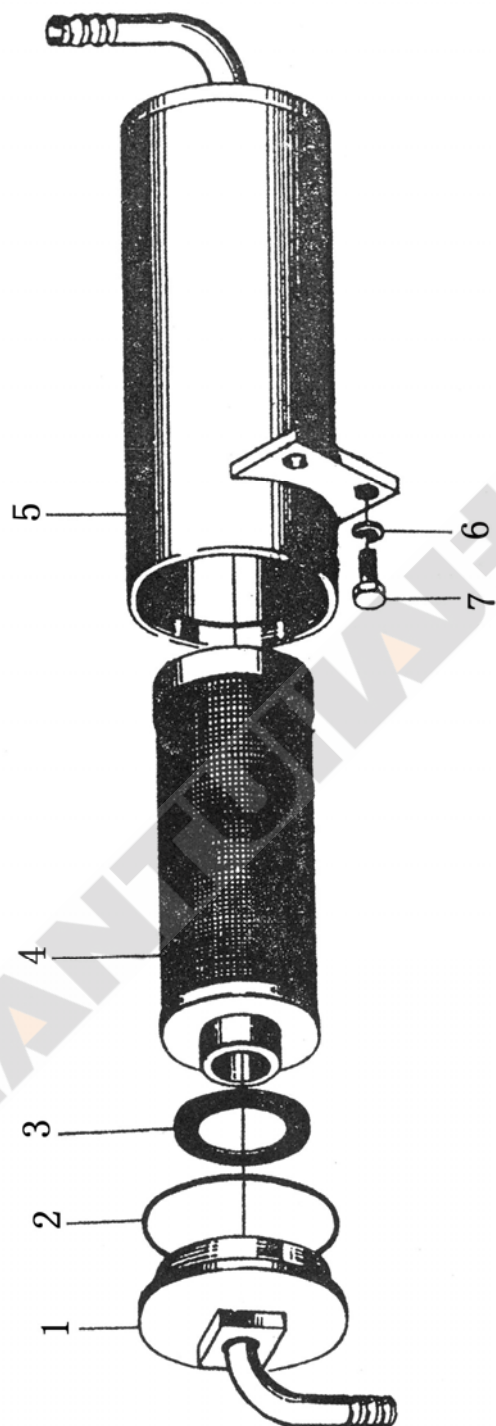


齿轮泵总成

GEAR PUMP ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
302-1	GB893.1-86	挡圈 58 sprag 58	1
2	HG4-692-67	骨架式油封 skeleton type oil SG38×58×12 seal SG38×58×12	2
3		螺母 nut	4
4		前泵盖 front cover	1
5	GB 1235-76	O 型圈 190×5.7 "O" ring 190×5.7	2
6		侧板 side plate	2
7	GB119-86	圆柱销 12×80 pin 12×80	4
8		泵体 pump body	1
9		轴座 shaft seat	2
10		滚针轴承 needle roller bearing	2
11	GB1235-87	O 型圈 70×3.1 "O" ring 70×3.1	
12		垫片 gasket	4
13		主动齿轮 drive gear	4
14		螺塞 ZG1/8"	1
15		后泵盖 rear cover	2
16	GB93-87	垫圈 12 washer 12	1
17	GB70-76	螺钉 M12×100 screw M12×100	4
18		密封铜垫 copper seal gasket	4
19	GB93-87	垫圈 washer	4
20		螺钉 screw	4
21		从动齿轮 driven gear	1
			1

第 303 图 回油滤清器总成
FIG.303 RETURN OIL FILTER ASSEMBLY



回油滤清器总成

RETURN OIL FILTER ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
303-1		上盖 top cover	1
2		胶垫 I rubber spacer I	1
3		胶垫 II rubber spacer II	1
4		滤网总成 filter screen assembly	1
5		壳体 housing	1
6	GB93-87	垫圈 12 lock washer 12	2
7	GB5780-86	螺栓 M12×20 bolt M12×20	2

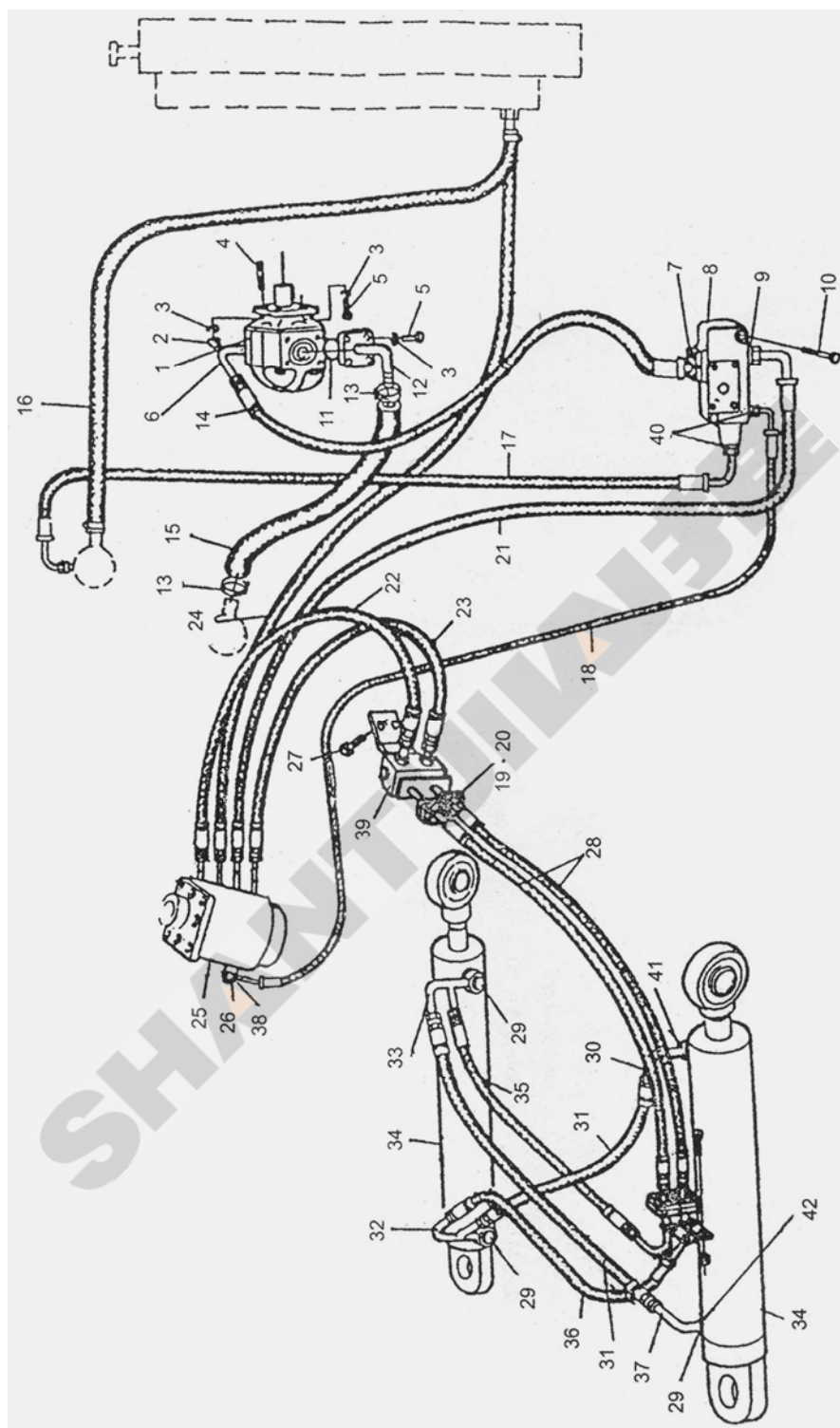
SHANTUI 山推

转 向 系 统

STEERING SYSTEM

SHANTUI 手册

第 401 图 转向液压系统
FIG.401 STEEROMG HYDRAULIC SYSTEM

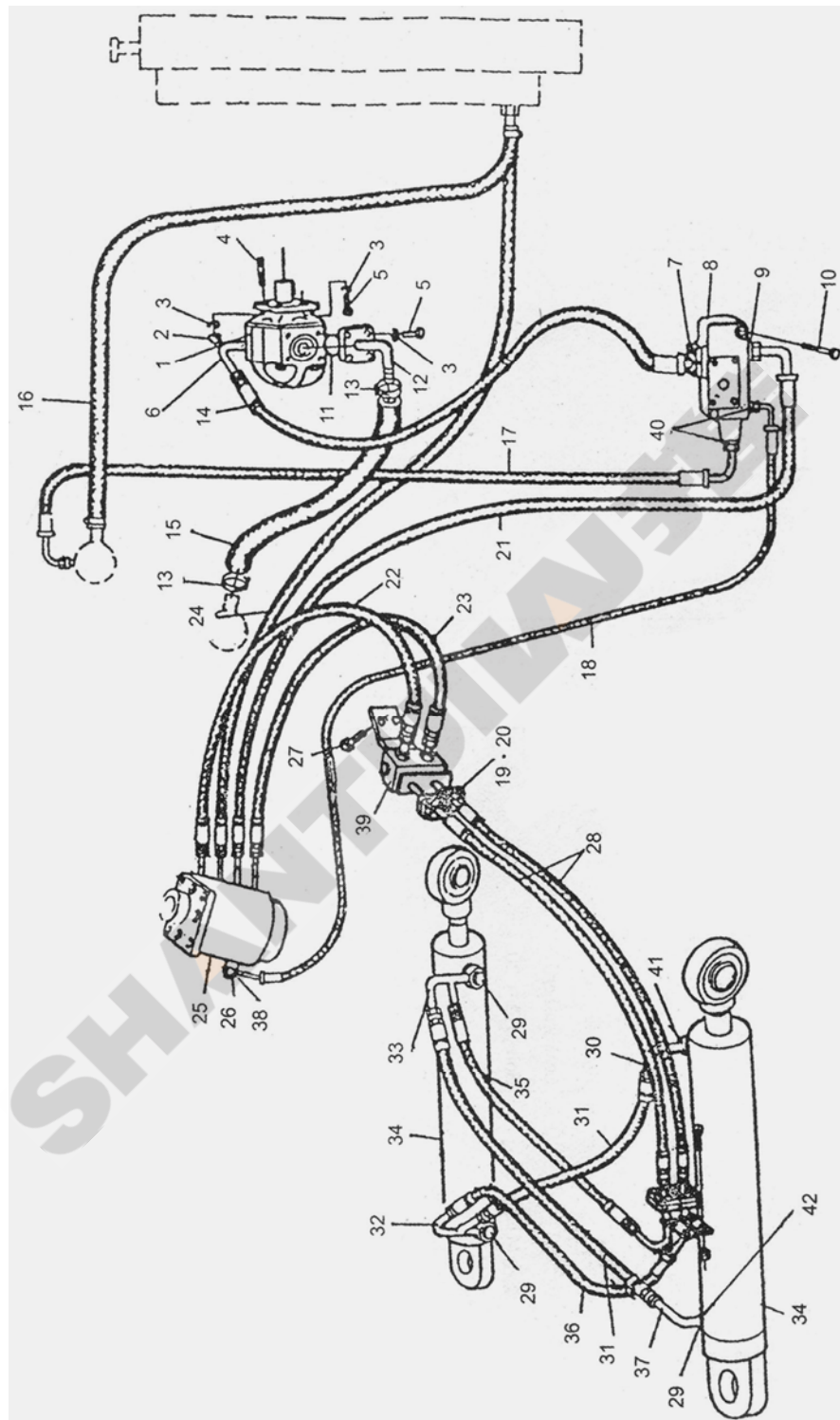


转向液压系统

STEEROMG HYDRAULIC SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
401-1	CBGq2080/ CBq2100	双联齿轮泵 tandem gear pump	1
		转向泵 steering gear pump	1
2	GB6170-86	螺母 M12 nut M12	2
3	GB93-87	弹簧垫圈 12 lock washer 12	10
4	GB898-88	螺柱 AM12×35 bolt .AM 12×35	2
5	GB5783-86	螺栓 M12×35 bolt .AM 12×35	6
6	GB3452.1-82	O 型圈 37.5×3.55 "O"-ring 37.5×3.55	4
7	51H-20	拼合法兰 split flange	4
8	YXL-F250F-N7	优先阀 priority valve	1
9	ZL50G2-05006	优先阀接头 priority valve joint	1
10	GB70-85	螺钉 M10×90 bolt M10×90	2
11	GB3452.1-82	O 型圈 47.5×3.55 "O"-ring 47.5×3.55	1
12	ZL50G2-05018	转向泵进油管 inlet steel tube of steering pump	1
13		双钢丝卡箍(57-62) double sled wire hose clamp(57-62)	4
14	ZL50G2-06041 (L=1242,ZL50F-III)	转向泵到优先阀油管 hose, steering pump to priority valve	1
15	ZL50G3-05017	低压耐油胶管 Φ45×820 low-pressure oil resistant tube	1
16	ZL50G2-05007	低压耐油胶管 Φ32×2700 low-pressure oil resistant tube	1
17	ZL50G2-05025	软管总成 81-530 hose assembly 81-530	1
18	ZL50G3-05026	转向器到优先阀反馈油管 feed back oil tube. flow O 型圈 25×3.55 amplifier to priority valve	1
19	GB3452.1-82	拼合法兰 "O" ring 25×3.55	4
20	MIH-12	软管总成 19 II-1935 split flange	4
21	JH100-81	软管总成 19 II-1495 hose assembly 19 II-1935	1
22	ZL50G2-05022	软管总成 19 II-1515 hose assembly 19 II-1495	1
23	ZL50G2-05021	软管总成 19 I-3580 hose assembly 19 II-1515	1
24	JH100-81	同轴流量放大转向器 hose assembly 19 I-3580	1
25	TLF1-E1000C	空心螺栓 flow amplifier	1
26	ZL50G2-05016	螺栓 M12×25 hollow bolt	1
27	GB5783-86	软管总成 19 II-1130 bolt M12×25	2
28	ZL50G2-05020	空心螺栓 hose assembly 19 II-1130	2
29	ZL50G2-05003	左转向缸后接头 hollow bolt	3
30	ZL50G2-05010	软管总成 19 II-660 rear joint of R/cylinder	1
31	JH100-81	右转向缸前接头 hose assembly 19 II-660	2
32	ZL50G2-05001	右转向缸后接头 front joint of R/cylinder	1
33	ZL50G2-05002	转向缸 rear joint of R/cylinder	1
34	HSGK100/55BE-EG	转向缸 steering cylinder	2

第 401 图 转向液压系统
FIG.401 STEEROMG HYDRAULIC SYSTEM

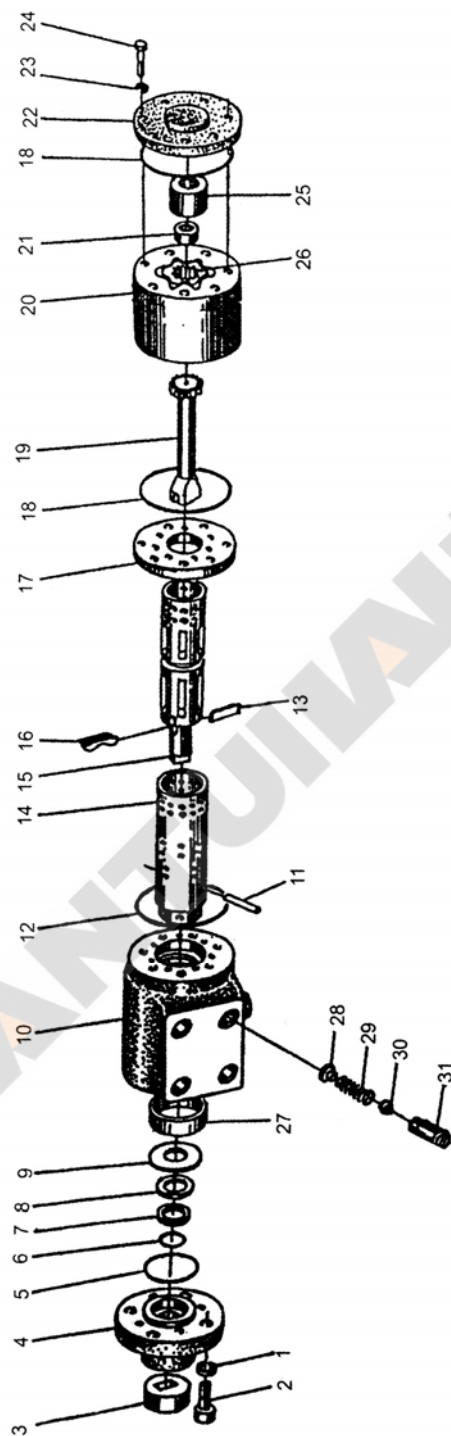


转向液压系统

STEEROMG HYDRAULIC SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
401-35	ZL50G2-05019	软管总成 19 II-845 hose assembly 19 II-845	1
36	ZL50G2-05027	软管总成 19 II-710 hose assembly 19 II-710	1
37	ZL50G2-05011	左转向缸前接头 front joint of L/cylinder	1
38	JB982-77	组合垫圈 12 lock washer 12	2
39	ZL50G2-05004	后车架接头 coupling on rear frame	1
40	ZL50G2-05005	反馈油管接头 feed hack oil tube joint	2
41	ZL50G2-05012	空心螺栓 hollow bolt	1
42	GB3452.1-82	O 形圈 23.6×3.55 "O" ring 23.6×3.55	8

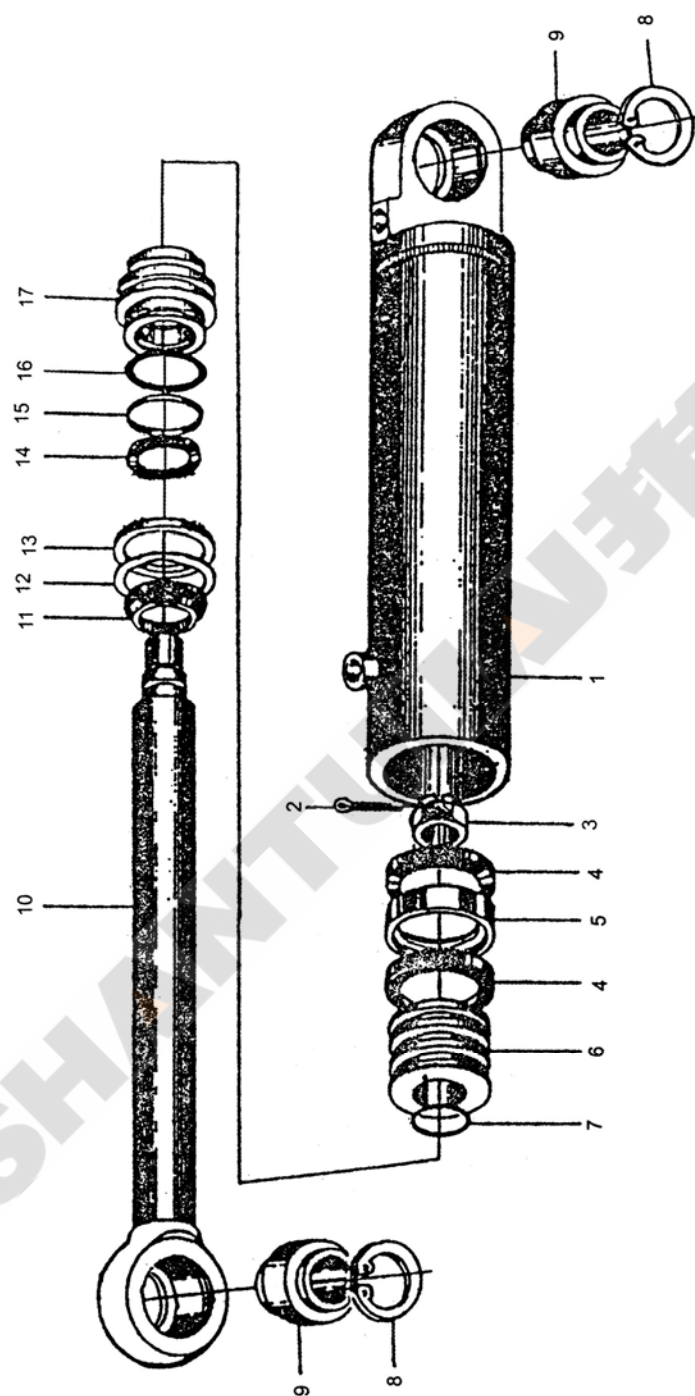
第 402 图 同轴流量放大转向器
FIG.402 CO-AXIS AMP ORBIT-ROLL VALVE



同轴流量放大转向器
CO-AXIS AMP ORBIT-ROLL VALVE

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
402-1	GB93-87	垫圈 8 washer 8	4
2	GS70-85	内六角螺钉 M8×22 screw M8×22	4
3	BZZ-01-00	连接块 joint	1
4	BZZ-00-01 A	前盖 front cover	1
5	GB3452.1-82	O 型密封圈 43.7×2.65 "O" ring 43.7×2.65	1
6	GB1235-76	O 型密封圈 26×2.4 "O" ring 26×2.4	1
7	BZZ-00-16	O 型密封圈 "O" seal ring	1
8	BZZ-00-02A	挡环 spacer	1
9	BZZ-00-03	滑环 slide ring	1
10	BZZ-00-10A	阀体 valve body	1
11	BZZ-00-05	拨销 center pin	1
12	GB3452.1-82	O 型密封圈 80×2.65 "O"-ring 80×2.65	1
13	BZZ6-00-27	隔片 isolating plate	2
14	BZZ6-00-09	阀套 sleeve	1
15	BZZ6-00-08	阀芯 valve spool	1
16	BZZ6-00-04	弹簧片 Spring plate	6
17	BZZ-00-11A	隔盖 Isolating cover	1
18	BZZ-00-23A	O 型密封圈 80×1.8 "O" ring 80×1.8	2
19	BZZ6-00-07	联动轴 drive shaft	1
20	BZZ-00-12A	定子 stator	1
21	BZZ-00-14	限位柱 locating column	1
22	BZZ-00-13A	后盖 rear cover	1
23	BZZ-00-19	铜垫 copper spacer	7
24	BZZ-00-22	小六角螺栓 bolt	6
25	BZZ-00-14(b)	限位柱垫 spacer	1
26	BZZ-00-15A	转子 rotor	1
27	BZZ6-00-25	挡圈 snap ring	1
28	BZZ6-00-30	弹簧座 retainer	1
29	BZZ6-00-29	弹簧 spring	1
30	6B308-64	钢球 7 steel ball 7	1
31	BZZ6-00-28	单向阀体 check vale body	1

第 403 图 转向油缸
FIG.403 STEERING CYLINDER ASSEMBLY

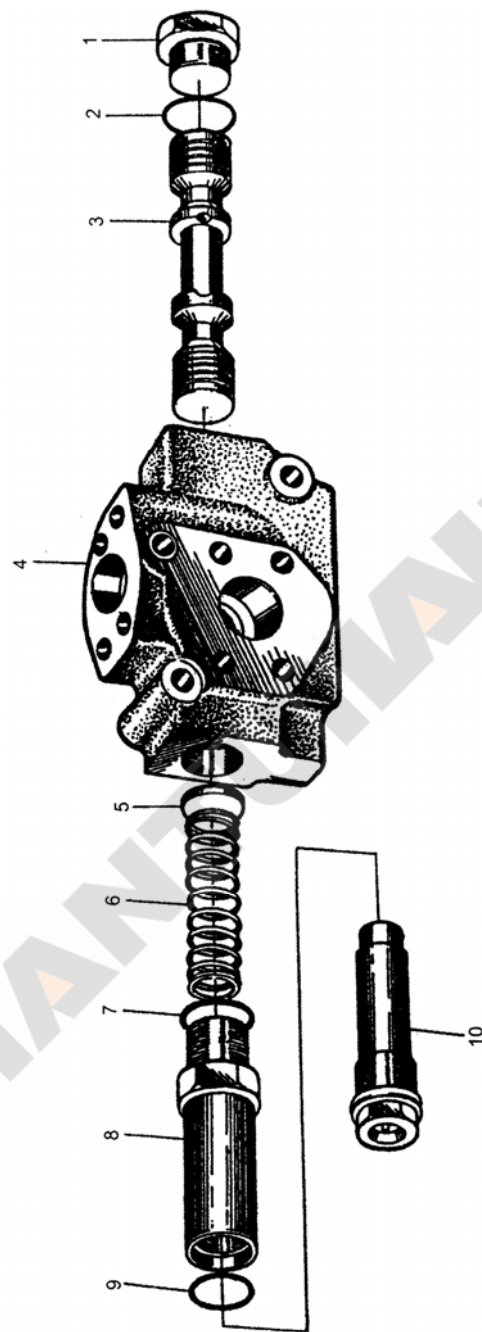


转向油缸

STEERING CYLINDER ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
403-1		缸体 cylinder block	1
2	GB91-86	开口销 Spl pin	1
3		槽形螺母 slot nut	1
4	RB132	支承环 S100×19.5×2.5 support ring	2
5	RB 132	孔用组合封 CKW1000 glyd ring	1
6		活塞 Piston	1
7	GB/T3452.1	O 型圈 54.5×3.55 "O" ring 54.5×3.55	1
8	GB893.1-86	挡圈 75 snap ring 75	4
9	GB304.5-81	关节轴承 GE50ES joint bearing GE50ES	2
10		活塞杆 piston rod	1
11	GB/T10708.3	防尘圈 FC55×65×6 dust ring FC55×65×6	1
12	GB/T3452.1	O 型圈 100×2.65 "O" ring 100×2.65	1
13	GB/T3452.1	O 型圈 92.5×3.55 "O" ring 92.5×3.55	1
14	GB/T10708.1	Y 型密封圈 55×70×12.5 "Y" ring 55×70×12.5	1
15	RB132	轴用组合封 CKS0550 combined seal ring CKS0550	1
16	RB132	杆用支承环 support ring G55×29.5×2.5 G55×29.5×2.5	1
17		缸盖 cylinder cover	1

第 404 图 优先阀总成
FIG.404 PRIORITY VALVE ASSEMBLY



优先阀总成

PRIORITY VALVE ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
404-1	YXL-F250L-07	丝堵 thread plug	1
2	GB1235-76	O 型密封圈 32×3.1 "O" ring 32×3.1	1
3	YXL-F250L-06	阀芯 valve spool	1
4	YXL-F250E-01	阀体 valve body	1
5	YXL-F250L-05	弹簧座 retainer	1
6	YXL-F250L-04	主阀弹簧 spring	1
7	GB1235-76	O 型密封圈 35×3.1 "O" ring 35×3.1	1
8	YXL-F250L-02	安全阀阀座 safety valve seat	1
9	GB1235-76	O 型密封圈 22×4.1 "O" ring 22×4.1	1
10	YXL-F250L-03	安全阀总成 safety valve assembly	1

SHANTUI 山推

工 作 装 置 液 压 系 统

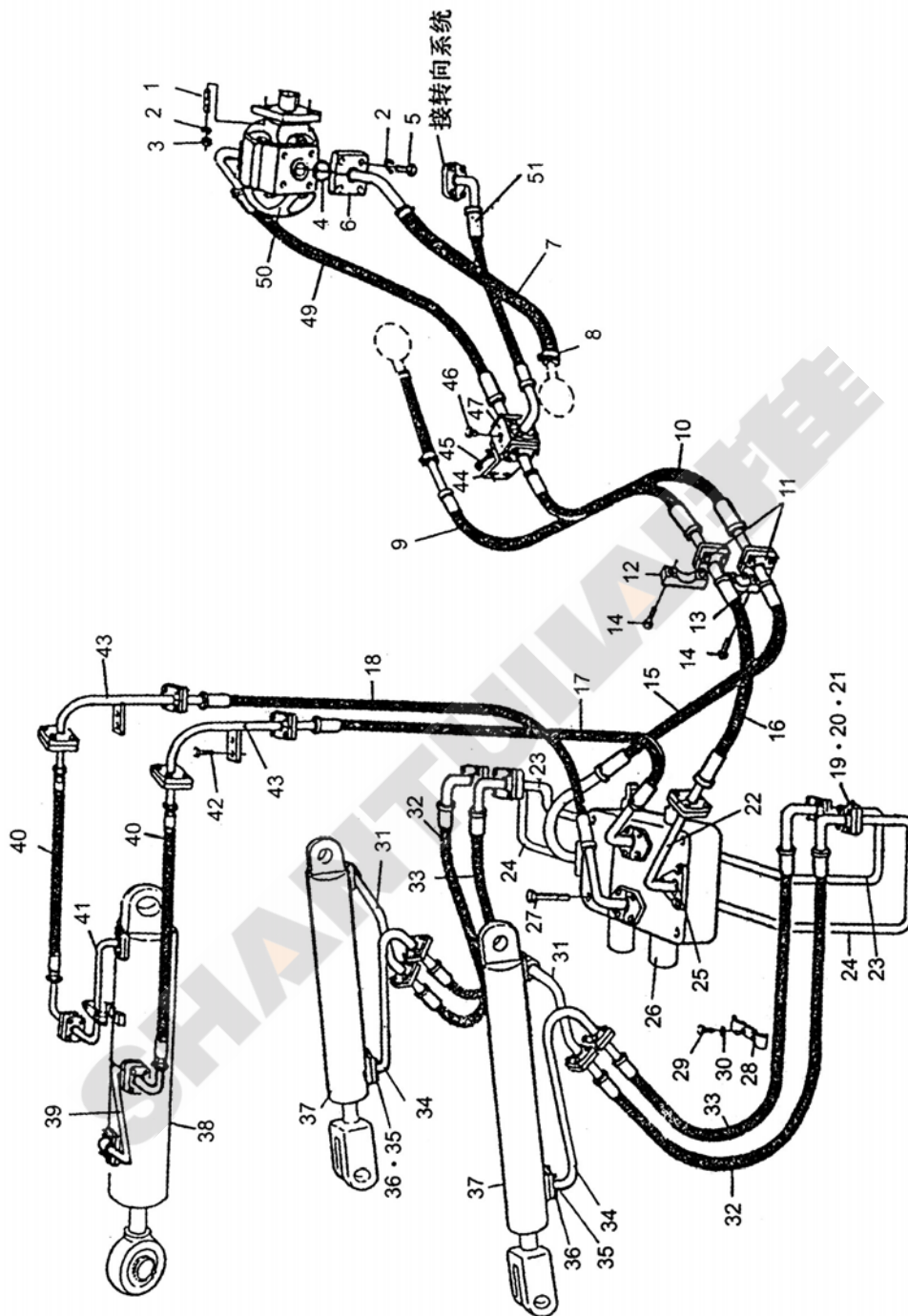
WORKING DEVICE HYDRAULIC SYSTEM

SHANTUI 三一

第 501 图

工作装置液压系统

FIG.501 WORKING DEVICE HYDRAULIC SYSTEM



工作装置液压系统

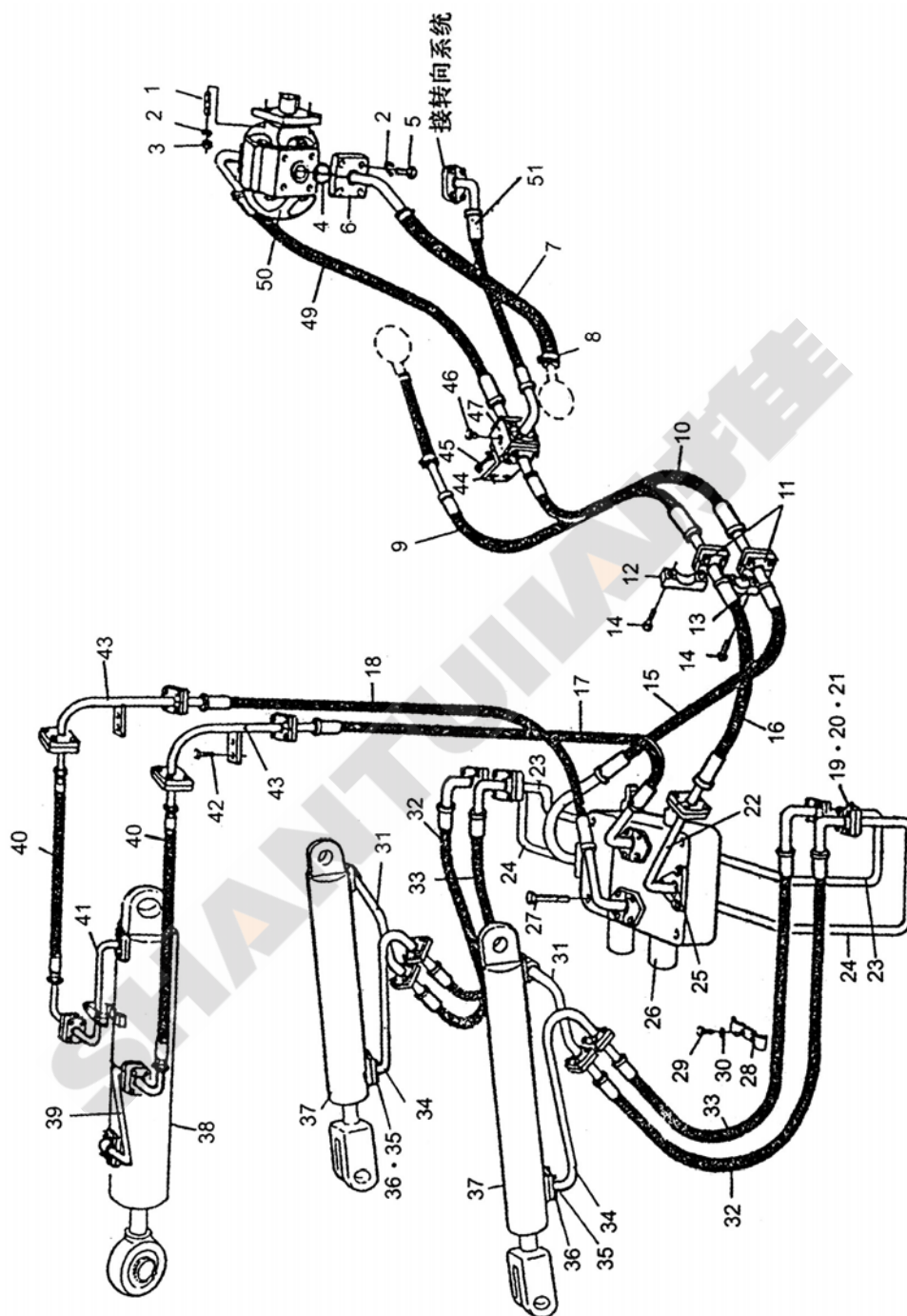
WORKING DEVICE HYDRAULIC SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
501-1	GB898-88	螺柱 AM12×35	bolt AM12×35	4
2	GB93-87	弹性垫圈 12	lock washer 12	30
3	GB6170-86	螺母 M12	nut M12	8
4	GB3452.2-1992	O 型圈 Φ43.7×3.55	"O" ringΦ43.7×3.55	1
5	GB5783-86	螺栓 M12×30	bolt M12×30	4
6	ZL50G3-06046	工作泵吸油接头	suction adapter, working pump	1
7	ZL50G3-06020	低压耐油胶管[L=740)	oil resistant tube low pressure	1
8		双钢丝卡箍(57-62)	double steel wire hose clamp	8
9	ZL50G2-06026B	工作阀回油管 I(38.1-1294)	oil return tube I , working valve	1
10	ZL50G2-06025	工作阀进油管 H(31.8-1220)	oil inlet tube II , working valve	1
11	51H-24	法兰	flange	2
12	ZL50G2-06024	油管固定卡 I	tube clip	2
13	ZL50G2-06027	油管固定卡	tube clip	1
14	GB5782-86	螺栓 M10×55	bolt M10×55	6
15	ZL50F III-06015	工作阀进油管 I (31.8-1050)	oil inlet tube I ,working valve	1
16	ZL50F III-06017	工作阀回油管 II (38.1-660)	oil return tube II , working valve	1
17	ZL50F III-06016	翻斗缸进油管 II (25.4-890)	oil inlet tube II of tilting cylinder	1
18	ZL50F III-06018	翻斗缸进油管 I(25.4-900)	oil inlet tube I of tilting cylinder	1
19	51H-2D	法兰	flange	25
20	GB5783-86	螺栓 M10×35	bolt M10×35	101
21	GB93-87	弹性垫圈 10	lock washer 10	135
22	ZL50F III-06019	工作阀回油接头	return port adapter of working valve	1
23	ZL50F III-06020	工作阀大腔中接头	mid-adapter to large chamber of working vale	1
24	ZL50F III-D6021	工作阀小腔中接头	mid-adapter to small chamber of working valve	1
25	GB1235-76	O 型圈 Φ50×3.1	"O" ringΦ50×3.1	1
26	DF32.2C	多路换向阀	distnbution valve	1
27	GB5780-86	螺栓 M12×120	bolt M12×120	2
28	ZL50G2-06047	管卡	clip	8
29	GB5781-86	螺栓 M8×25	bolt M8×25	6
30	GB93-87	弹性垫圈 8	lock washer 8	28

第 501 图

工作装置液压系统

FIG.501 WORKING DEVICE HYDRAULIC SYSTEM



工作装置液压系统

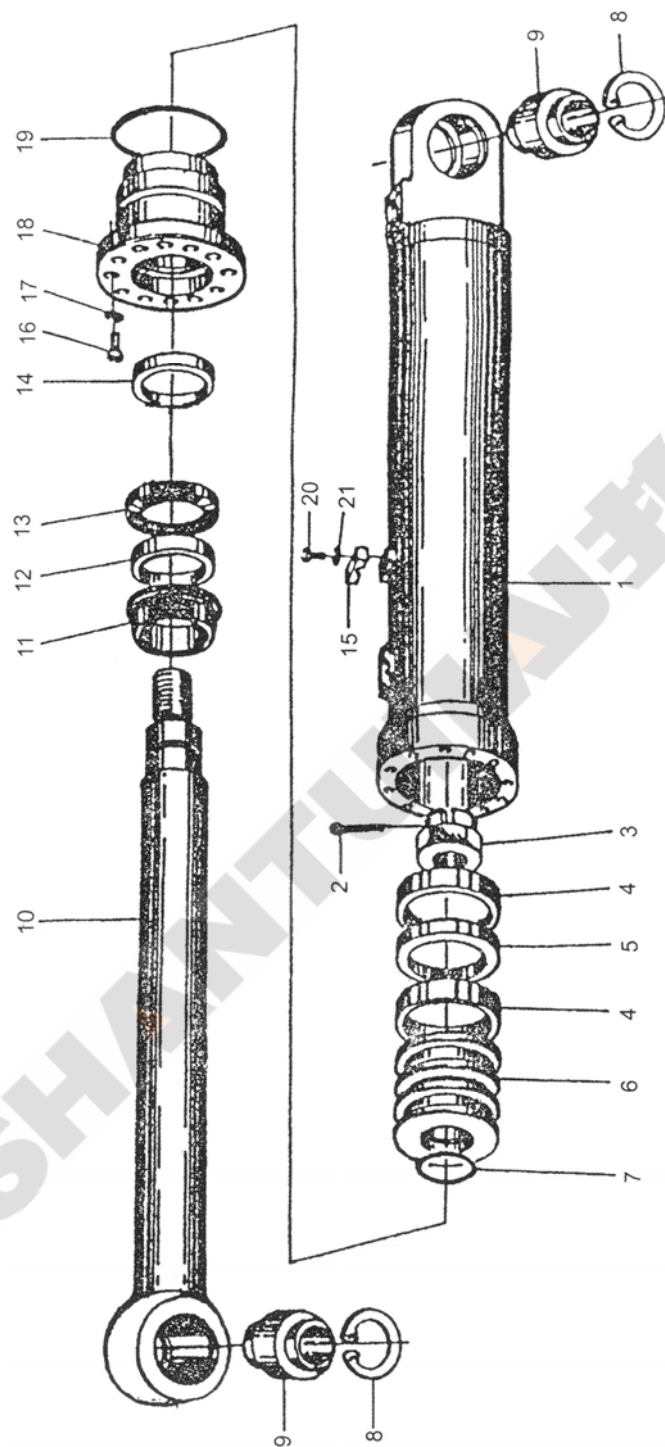
WORKING DEVICE HYDRAULIC SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
501-31	ZL50G2-06048	举升缸大腔接头(左) adapter, bottom end of lifting cylinder (L)	1
	ZL50G2-06049	举升缸大腔接头(右) adapter, bottom end of lifting cylinder (R)	1
32	ZL50G2-06041	举升缸大腔油管 (25.4-1262) oil tube to large chamber of lifting cylinder	2
33	ZL50G2-06042	举升缸小腔油管 (25.4-1330) oil tube to small chamber of lifting cylinder	2
34	ZL50G2-06045	举升缸小腔接头(左) adapter, head end of lifting cylinder (L)	1
	ZL50G2-06046	举升缸小腔接头(右) adapter, head end of lifting cylinder (R)	1
35	GB3452.2-1992	O 型圈 $\Phi 32.5 \times 3.55$ "O" ring $\Phi 32.5 \times 3.55$	6
36	GB5782-86	螺栓 M10 $\times$ 65 bolt M10 $\times$ 65	24
37	ZL50G2	举升缸总成 lifting cylinder asy	2
38	ZL50G2	转斗缸总成 tilting cylinder asy	1
39	ZL50G2-06002	转斗缸小腔接管 pipe to head end of tilting cylinder	1
40	ZL50G2-06003	转斗缸油管(25.4-1208) tube, tilting cylinder	2
41	ZL50G2-06004	转斗缸大腔接管 pipe to bottom end of tilting cylinder	1
42	GB5783-86	螺栓 M12 $\times$ 25 bolt M12 $\times$ 25	6
43	ZL50G2-06005	翻斗油管中间接头 mid-adapter to tilting tube	2
44	ZL50G2-06039	油路板固定板 set plate of oil board	1
45	GB5781-86	螺栓 M10 $\times$ 20 bolt M10 $\times$ 20	2
46	GB1000-77	螺塞 M14 $\times$ 1.5 thread plug M14 $\times$ 1.5	1
47	ZL50G2-06040	油路板 oil board	1
49	ZL50G3-06021A	工作泵出油管 (25.4-800) outlet tube, working pump	1
50	CBGj3125	齿轮泵(反转矩形花键) gear pump	1
51	ZL50G3-05023	优先阀到油路板合流管 tube, priority valve to oil board	1

第 502 图

转斗油缸

FIG.502 STEERING CYLINDER ASSEMBLY



转斗油缸

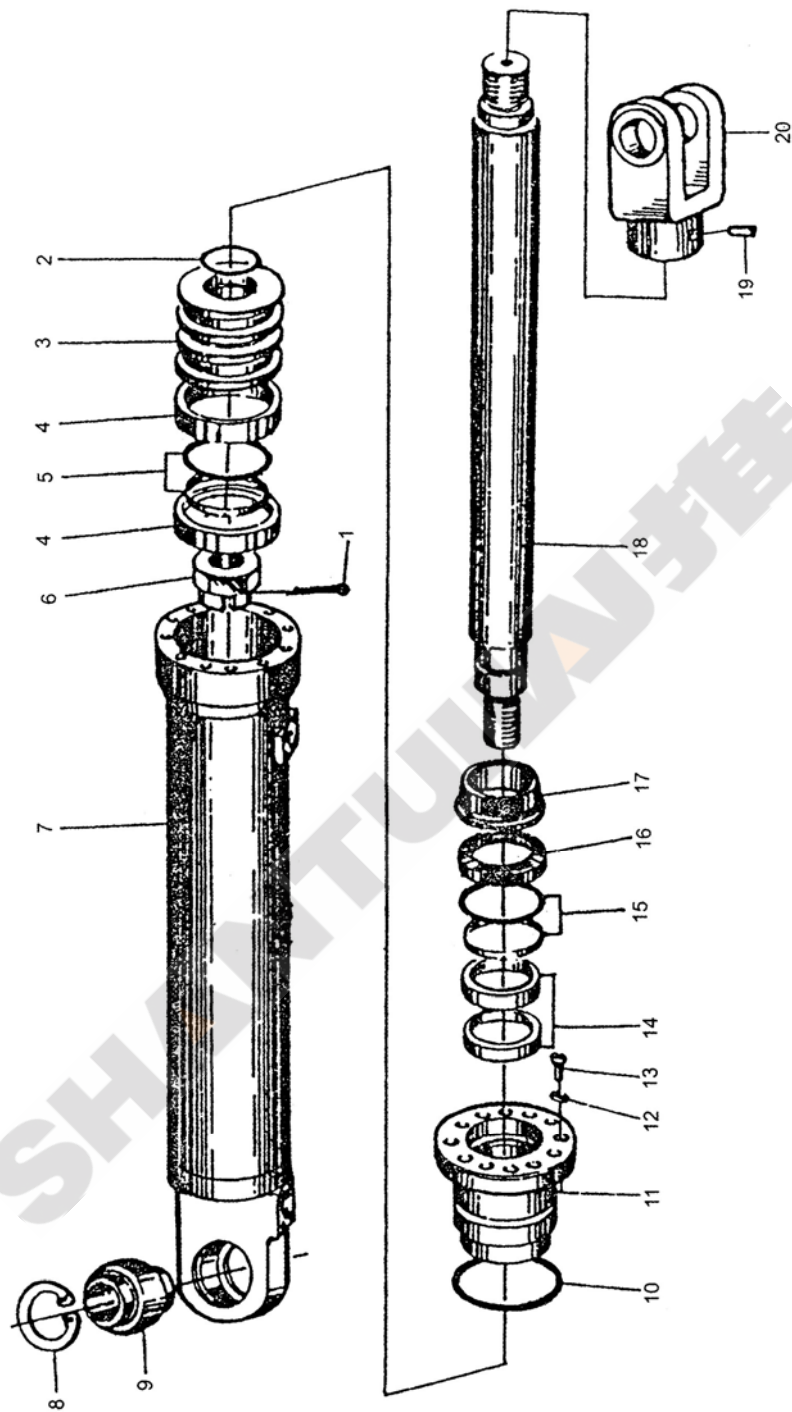
STEERING CYLINDER ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
502-1		缸体 cylinder block	1
2	GB91-86	开口销 10×120 split pin 10×120	1
3	GB6178-86	槽形螺母 slot nut	1
4	RB132	孔用组合封 CKW200 combined seal ring CKW200	2
5	RB132	孔刚支承环 support ring S200×19.5×2.5 S200×19.5×2.5	1
6		活塞 piston	1
7	GB/T3452.1	O 型圈 109×3.55 "O" ring 109×3.55	1
8	GB893.1-86	挡圈 120 snap ring 120	4
9	GB/T9163	关节轴承 GE80ES joint bearing GE80ES	2
10		活塞杆 piston rod	1
11	GB10708.3	防尘圈 FC110×12.5×8.5 dust ring FC110×12.5×8.5	1
12	GB10708.1	Y 型圈 110×130×16 "Y" ring 110×130×16	1
13	RB132	轴用组合封 CKS-1100 combined seal ring CKS-1100	1
14	RB132	杆用支承环 supporting ring G110×44.5×2.5 G110×44.5×2.5	1
15		管夹 clip	1
16	GB5785-86	螺栓 M18×1.5×65 bolt M18×1.5×65	12
17	GB93-87	弹垫 18 lock washer 18	12
18		缸盖 cylinder cover	1
19	GB/T3452.1	O 型圈 190×5.3 "O" ring 190×5.3	1
20	GB5781-86	螺栓 M10×45 bolt M10×45	2
21	GB93-87	弹垫 10 lock Washer 10	2

第 503 图

举升油缸

FIG.503 LIFTING CYLINDER ASSEMBLY

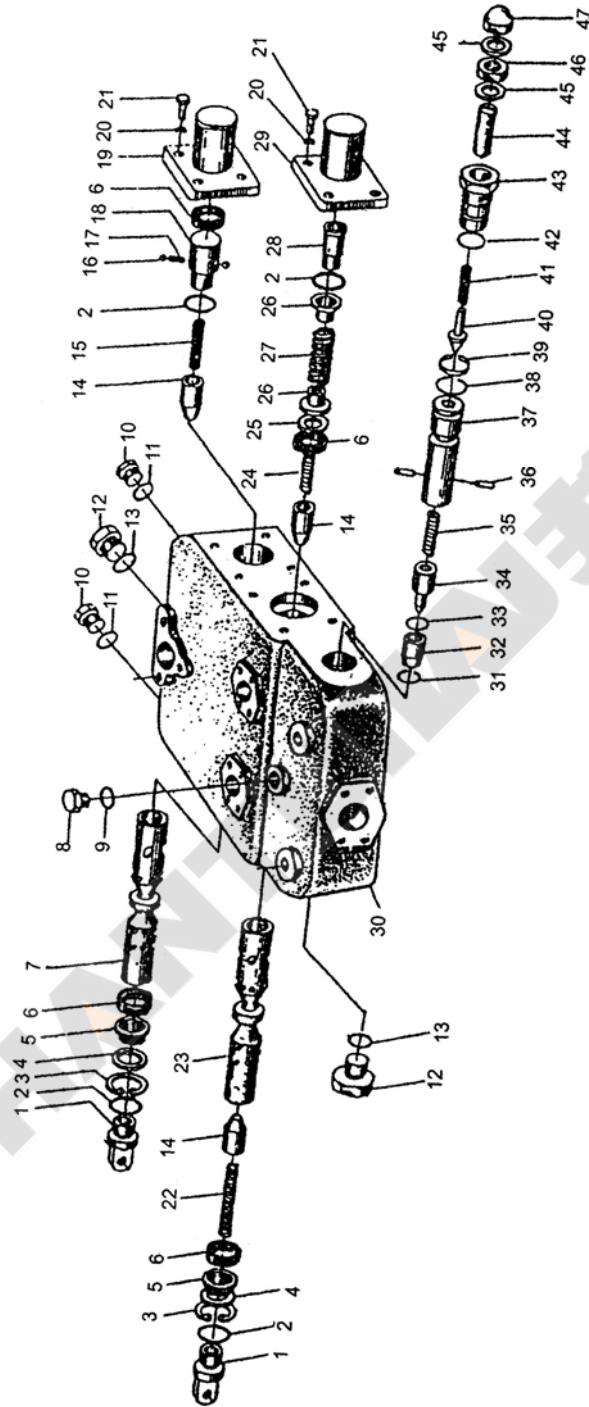


举升油缸

LIFTING CYLINDER ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
503-1	GB91-86	开口销 split pin	1
2	GB/T3452.1	O 型密封圈 100×3.55 "O"-ring 100×3.55	1
3		活塞 piston	1
4	RB132	支承环 S180×14.8×2.5 support ring	2
5	RB132	孔用组合封 CKW180 glyd ring	2
6		槽形螺母 slot nut	1
7		缸体 cylinder block	1
8	GB893.1-86	挡圈 105 snap ring 105	2
9	GB304.5-81	关节轴承 GE70ES joint bearing GE70ES	1
10	GBT3452.1	O 型密封圈 170×5.3 "O"-ring 170×5.3	1
11		缸盖 guide sleeve	1
12	GB93-87	垫圈 18 washer 18	10
13	GB/T5785-886	螺栓 M18×1.5×60 bolt M18×1.5×60	10
14	RB132	支承环 G100×44.5×2.5 support ring G100×44.5×2.5	1
15	RB132	轴用组合封 CKS 1000 step seal CKS 1000	1
16	GB10708.1	Y 型密封圈 "Y"-ring 100×120×16 100×120×16	1
17	GB10708.3	防尘圈 FC100×1.5×8.5 dust ring FC100×1.5×8.5	1
18		活塞杆 piston rod	1
19	GB/T	螺钉 M8×16 bolt M8×16	1
20		叉形耳环 ear ring	1
21	GB93-87	垫圈 8 washer 8	2

第 504 图 工作分配阀
FIG.504 WORKING DISTRIBUTION VALVE

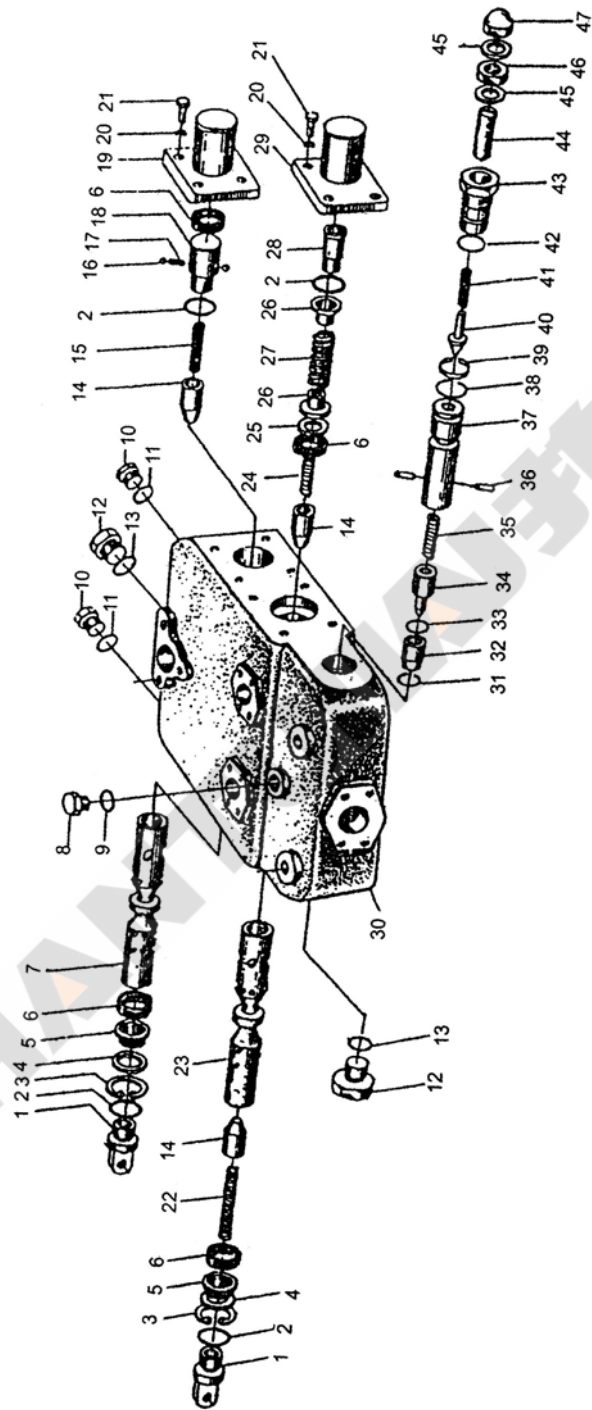


工作分配阀

WORKING DISTRIBUTION VALVE

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
504-1		弹簧座 retainer	2
2	GB1235-76	O 型圈 28×3.1 "O"-ring 28×3.1	4
3		挡圈 60 snap ring 60	2
4	GB1235-76	压紧环 clamp ring	2
5	GB893.1-86	密封环 sealing ring	2
6		骨架油封 SG35×56×12 skeleton type oil seal SG35×56×12	4
7		动臂滑阀 boom valve spool	1
8		螺塞 M14×1.5 thread pug M14×1.5	1
9	GB1235-76	O 型圈 16×2.4 "O"-ring 16×2.4	1
10		螺塞 thread plug	2
11	GB1235-76	O 型圈 22×2.4 "O"-ring 22×2.4	2
12		螺塞 thread plug	2
13	GB1235-76	O 型圈 32×3.1 "O"-ring 32×3.1	2
14		单向阀 check valve	3
15		弹簧 spring	1
16		钢球 Φ11 steel ball Φ11	2
17		弹簧 spring	1
18		弹簧座 retainer	1
19		定位套筒 positioning sleeve	1
20	GB93-87	弹性垫圈 8 lock washer 8	8
21	GB5783-86	螺栓 M8×20 bolt M8×20	8
22		弹簧 spring	1
23		转斗滑阀 tilting valve spool	1
24		弹簧 spring	1
25		垫板 spacer	1
26		弹簧压座 clamping retainer	2
27		回位弹簧 reset spring	1
28		弹簧座 retainer	1
29		端盖 end cover	1
30		阀体 valve block	1
31		钢丝挡圈 wire snap ring 20	1
32		回油阀芯 oil return valve spool	1
33	GB1235-76	O 型圈 20×2.4 "O"-ring 20×2.4	1
34		柱塞阀芯 plunger spool	1
35		弹簧 spring	1
36		固定销 set pin	9
37		安全阀套 safety valve sleeve	1
38		喷油圈 oil injection ring	1
39		钢丝挡圈 28 wire snap ring 28	1

第 504 图 工作分配阀
FIG.504 WORKING DISTRIBUTION VALVE

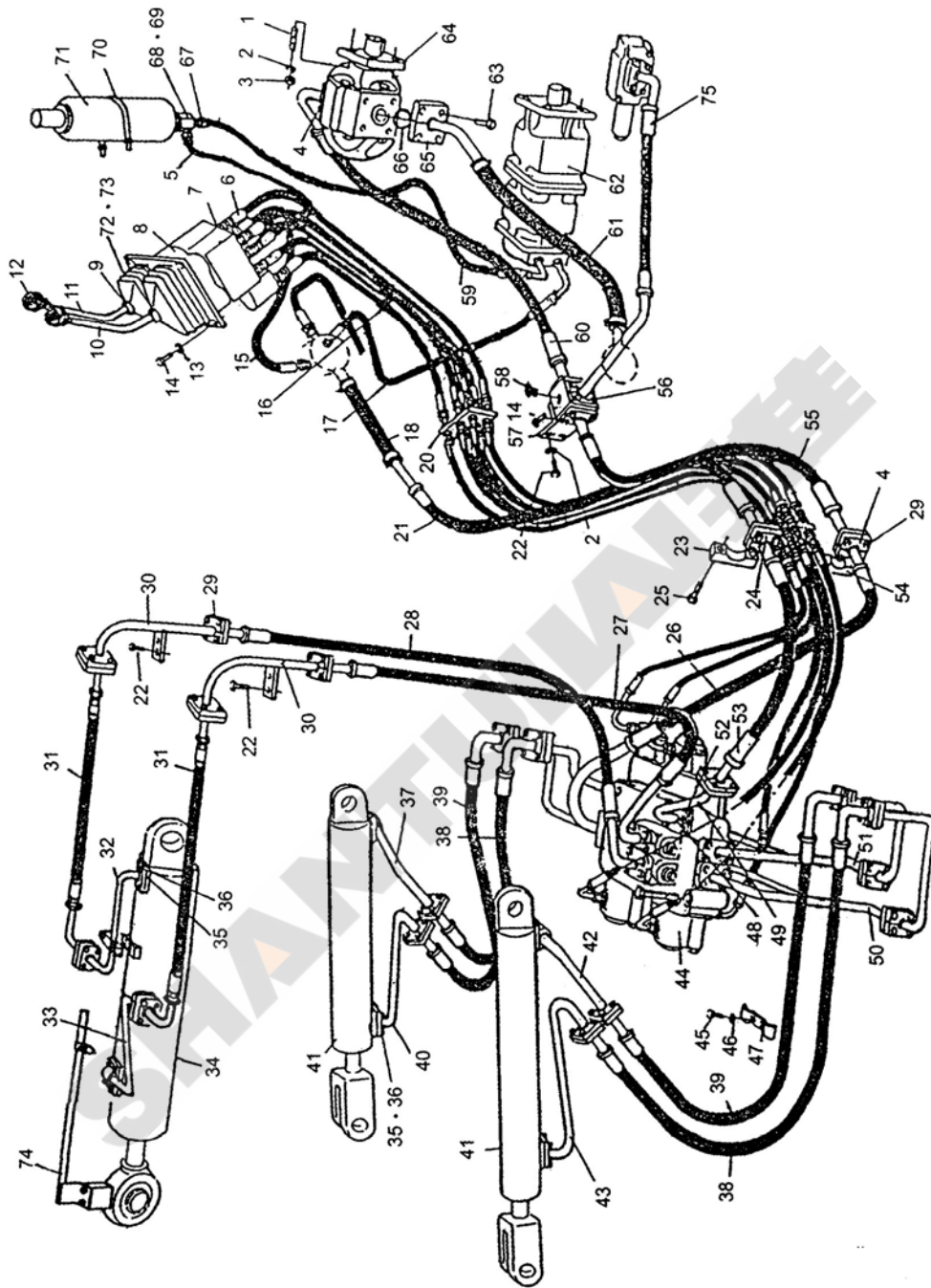


工作分配阀

WORKING DISTRIBUTION VALVE

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
504-40		阀芯 valve spool	1
41		弹簧 sprang	1
42		调整垫 adjusting shim	1 组
43		弹簧压盖 clamping cover of spring	1
44		调压丝杆 pressure-regulating screw	1
45		垫圈 lock washer	2
46		螺母 M12×1.25 nut M12×1.25	1
47		锁紧螺母 lock nut	1

第 505 图 工作装置液压系统（先导）(SL50W-2)
 FIG.505 WORKING DEVICE HYDRAULIC SYSTEM(PPC)(SL50W-2)

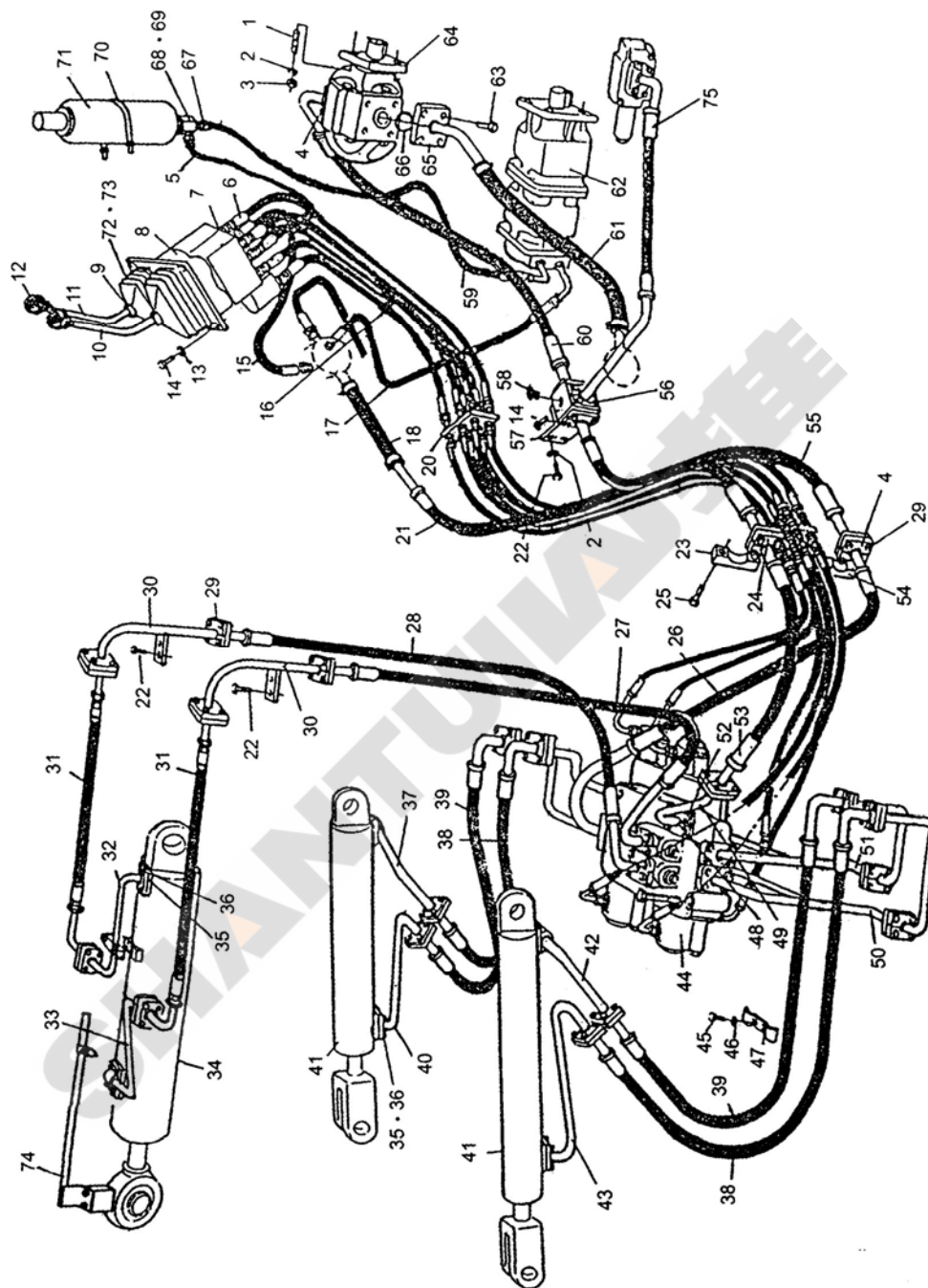


工作装置液压系统（先导）（SL50W-2）

WORKING DEVICE HYDRAULIC SYSTEM (PPC)(SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
505-1	GB898-88	螺柱 AM12×35	bolt AM12×35	4
2	GB93-87	弹性垫圈 12	lock washer 12	25
3	GB6170-86	螺母 M12	nut M12	11
4	GB3452.2-1992	O 型圈 Φ37.5×3.55	"O"-ringΦ37.5×3.55	22
5	ZL50G2-06016	先导油管(L=1560)	pilot oil tube	1
6	ZL5062-06009	先导油管(L=2800)	pilot oil tube	2
7	ZL50G2-06007	接头	adapter	13
8	DJS2-UU/UX	先导阀	PPC valve	1
9	GB6171-86	螺母 M12×1.25	nut M12×1.25	2
10	ZL50G2-06015	翻斗操纵杆	tilting control lever	1
11	ZL50G2-06014	举升操纵杆	lifting control lever	1
12		手柄套	handle sleeve	2
13	GB93-87	弹性垫圈 10	lock washer 10	122
14	GB5781-86	螺栓 M10×20	bolt M10×20	6
15	ZL50G2-06017	先导油管(L=850)	pilot oil tube	1
16	ZL50G2-06019	先导油管(L=3020)	pilot oil tube	3
17	ZL50G2-06016	先导油管(ZL50G-11)	pilot oil tube	1
18	ZL50G2-06023	低压耐油胶管(L=290)	low pressure oil resistan tube	1
20	ZL50G2-06037	先导油管固定板	set plate far pilot tube	2
21	ZL50G2-06026B	工作阀回油管 I (38.1-1294)	oil return tube I of working valve	1
22	GB5781-86	螺栓 M12×25	bolt M12×25	6
23	ZL50G2-06024	油管固定卡 I	tube clip I	2
24	51H-24	法兰	flange	3
25	GB5780-86	螺栓 M10×55	bolt M10×55	6
26	ZL50G2-06029	工作阀进油管 I(31.8-850)	oil inlet rube I to working valve	1
27	ZL50G2-06033	工作阀中间油管 I(25.4-780)	mid-pipe I to working valve	1
28	ZL50G2-06028	工作阀中间油管 II(25.4-820)	mid-pipe II to working valve	1
29	51H-20	法兰	flange	24
30	ZL50G2-06005	翻斗油管中间接头	mid-adapter of tilting tube	7
31	ZL50G2-06003	翻斗缸油管(25.4-1208)	tube to tilt cylinder	2
32	ZL50G2-06004	翻斗缸大腔接管	pipe to bottom end of tilting cylinder	1
33	ZL50G2-06002	翻斗缸小腔接管	pipe to head end of tilting cylinder	1
34	ZL50G2	翻斗油缸总成	tilt cylinder asy	1
35	GB3452.2-1992	O 型圈 Φ32.5×3.55	"O"-ring Φ32.5×3.55	6

第 505 图 工作装置液压系统（先导）（SL50W-2）
FIG.505 WORKING DEVICE HYDRAULIC SYSTEM(PPC)(SL50W-2)

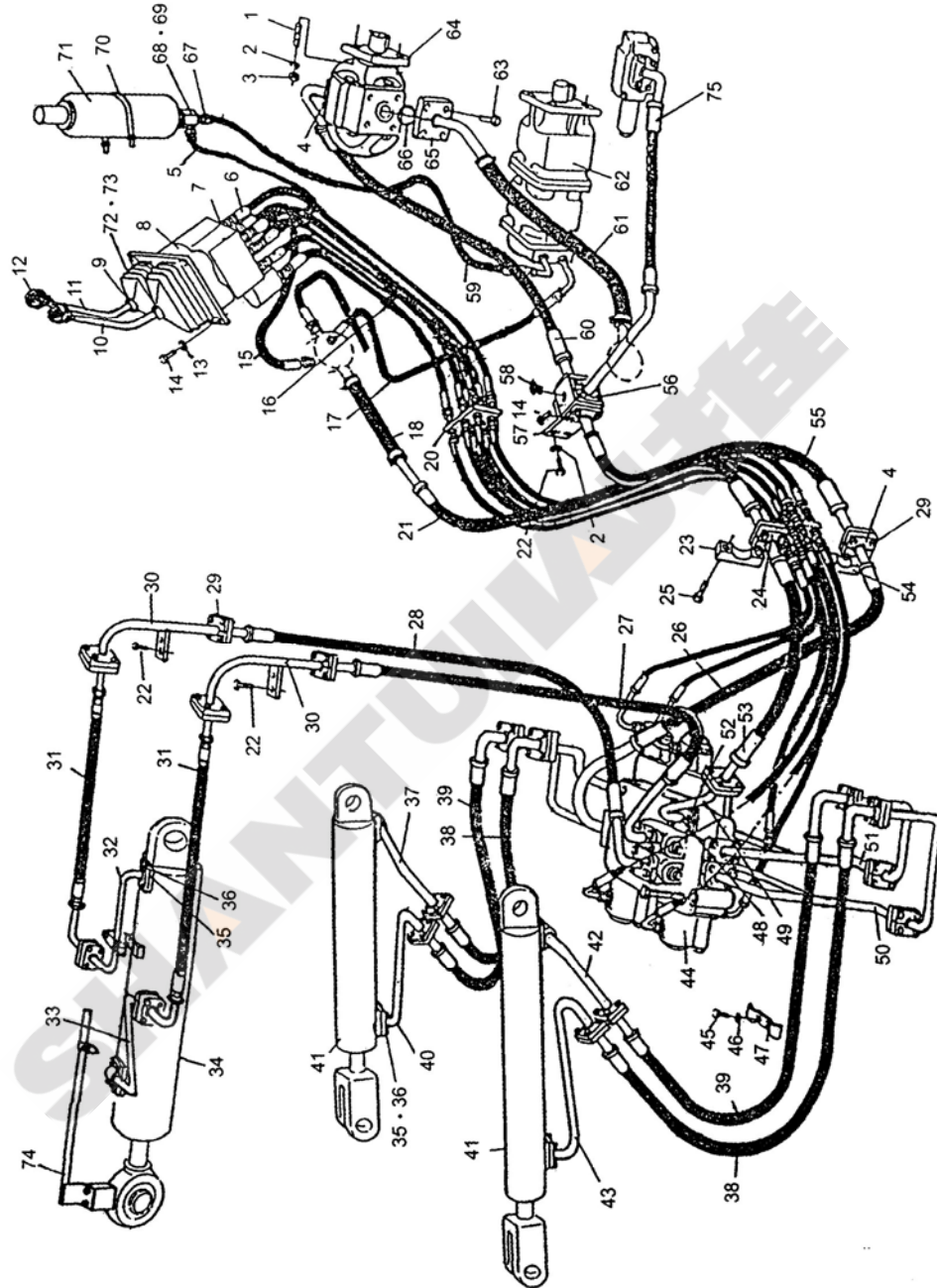


工作装置液压系统（先导）（SL50W-2）

WORKING DEVICE HYDRAULIC SYSTEM (PPC)(SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
505-36	GB5783-86	螺栓 M10×65	24
37	ZL50G2-06049	举升缸大腔接头(右)	1
38	ZL50G2-06041	举升缸大腔油管 (25.4-1242)	2
39	ZL50G2-06042	举升缸小腔油管 (25.4-1330)	2
40	ZL50G2-06046	举升缸小腔接头(右)	1
41	ZL50G2	举升缸总成	2
42	ZL50G2-06048	举升缸大腔接头(左)	1
43	ZL50G2-06045	举升缸小腔接头(左)	1
44	D32.2	液控整体多路阀	1
45	GB5781-86	螺栓 M8×25	8
46	GB93-87	弹性垫圈 8	26
47	ZL50G2-06047	管卡	8
48	GB3452.2-1992	O 型圈 Φ43.7×3.55	1
49	ZL50G2-06032	工作阀回油接头	1
50	ZL50G2-06035	工作阀小腔中接头	1
51	ZL50G2-06034	工作阀大腔中接头	1
52	GB5783-86	螺栓 M12×30	8
53	ZL50G2-06030	工作阀回油接管 II(38.1-535)	1
54	ZL50G2-06027	油管固定卡	1
55	ZL50G2-06025	工作阀进油管 II (31.8-1220)	1
56	ZL50G2-06040	油路板	1
57	ZL50G2-06039	油路板固定板	1
58	JB1000-77	螺塞 M14×1.5	1
59	JH100-81	先导油管(L=900)	1
60	ZL50G2-06020	工作泵出油管 (25.4-1180)	1
61	ZL50G2-06018	低压耐油胶管(L=1360)	1
62	CBGq2080/Gb1010	双联齿轮泵(左旋)	1

第 505 图 工作装置液压系统（先导）（SL50W-2）
FIG.505 WORKING DEVICE HYDRAULIC SYSTEM(PPC)(SL50W-2)



工作装置液压系统（先导）（SL50W-2）

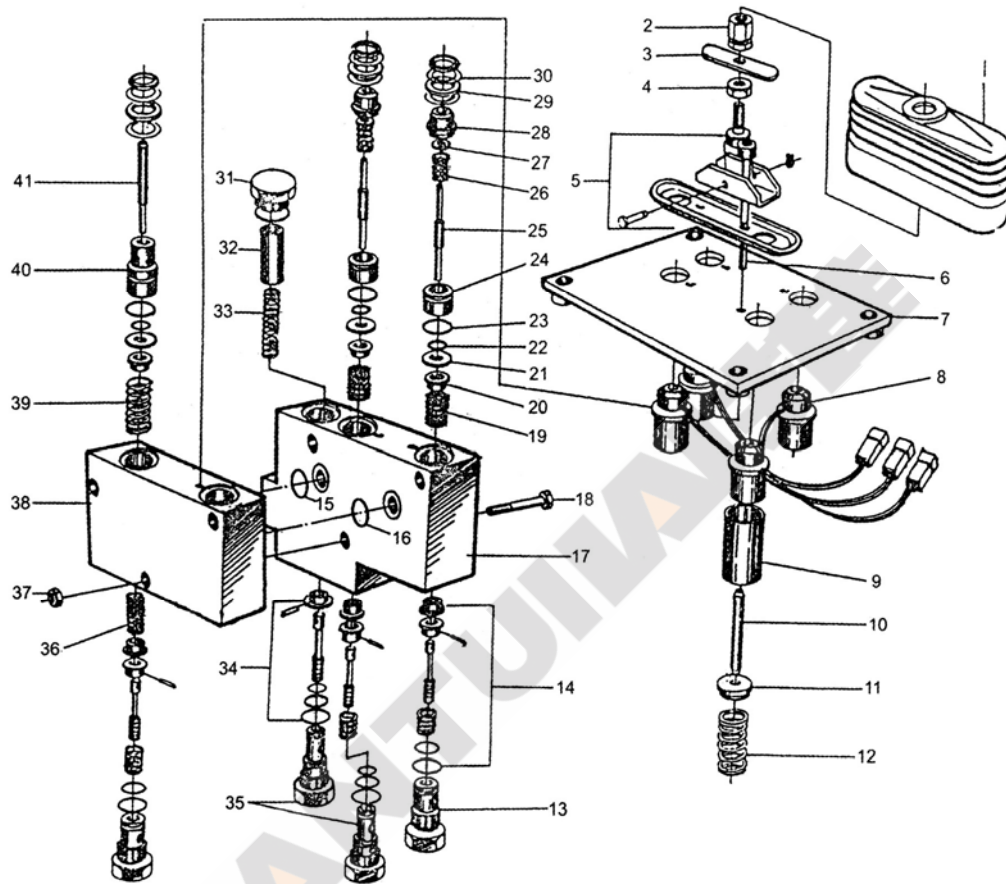
WORKING DEVICE HYDRAULIC SYSTEM (PPC)(SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
505-63	GB5783-86	螺栓 M10×30 bolt M10×30	24
64	CBG3100	齿轮油泵(ZL50G-II) gear pump	1
65	ZL50G2-06044	工作泵吸油接头 suction adapter, working pump	1
66	GB3452.2-1992	O 型圈 Φ38.7×3.55 "O"-ring Φ38.7×3.55	2
67	ZL50G2-06013	接头 connector	1
68	DIF-L10H1	直通单向阀 check valve	1
69	ZL50G2-06012	接头总成 connector asy	1
70	ZL50G2-06010	"U"型螺栓 "U" bolt	1
71	NXQ1-L0.63/10-H	囊式蓄能器 accumulator	1
72	ZL50G2-06006	盖板 cover board	1
73	ZL50G2-06008	上盖 up board	1
74	ZL5062-06001	放平指标杆 level automatically direct staff	1
75	ZL50G2-05023	优先阀到油路板合流管 tube priority valve to oil board	1

第 506 图

先导阀总成(SL50W-2)

FIG.506 PILOT CONTROL VALVE ASSEMBLY(SL50W-2)



先导阀总成(SL50W-2)

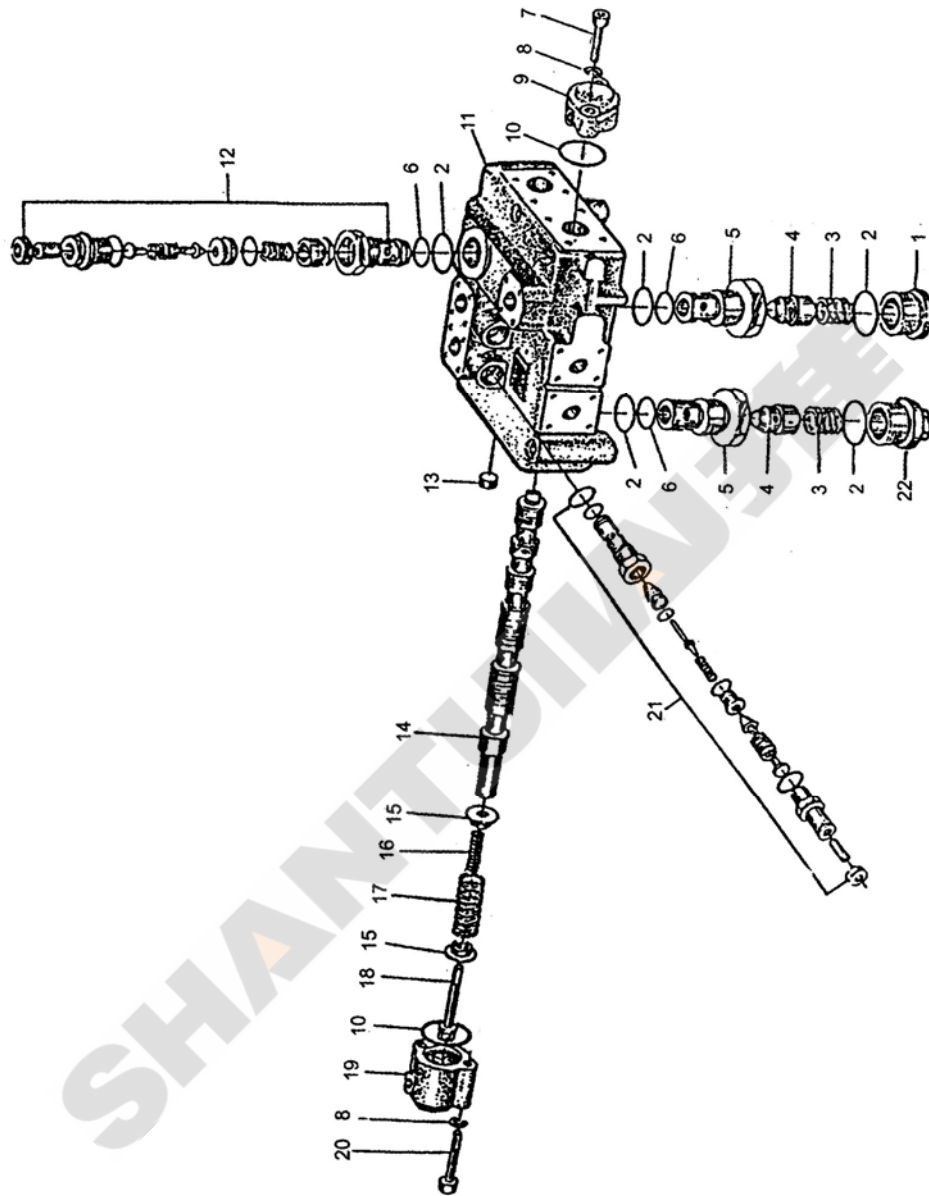
PILOT CONTROL VALVE ASSEMBLY(SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty	
506-1		橡胶罩	rubber cover	2
2		丝座	thread retainer	2
3		压板	pivot plate	2
4		螺母	nut	2
5		压销组	clamp pin group	2
6		固定螺栓	bolt	4
7		固定板	set plate	1
8		线圈总成	coil assembly	4
9		弹簧导管	spring guide	4
10		挺柱	plunger	4
11		弹簧座	retainer	4
12		回位弹簧	centering spring	4
13		阀座 I	valve seat I	3
14		计量阀芯 I	metering valve stem I	4
15		密封圈	seal ring	1
16		密封圈	seal ring	1
17		举升联阀体	valve block, lifting portion	1
18		螺栓	bolt	3
19		计量弹簧	metering spring	2
20		弹簧座	retainer	8
21		垫片	spacer	4
22		密封圈	seal ring	4
23		密封圈	seal ring	4
24		法兰	flange	2
25		压杆 I	push rod I	2
26		弹簧	spring	2
27		垫片	spacer	2
28		导向座 I	guide retainer I	2
29		垫片	spacer	8
30		绝缘片	isolator	8
31		丝绪	thread plug	1
32		弹簧导管	spring guide	1
33		弹簧	spring	1
34		计量阀芯 II	metering valve stem II	1
35		阀座 II	valve seat II	2
36		弹簧	spring	2
37		螺母	nut	3
38		转斗联阀体	valve block. tilting portion	1
39		弹簧	spring	2
40		导向座 II	guide retainer II	2
41		压杆 II	push rod II	2

第 507 图

工作分配阀（先导）(SL50W-2)

FIG.507 WORKING DISTRIBUTION VALVE (PPC) (SL50W-2)

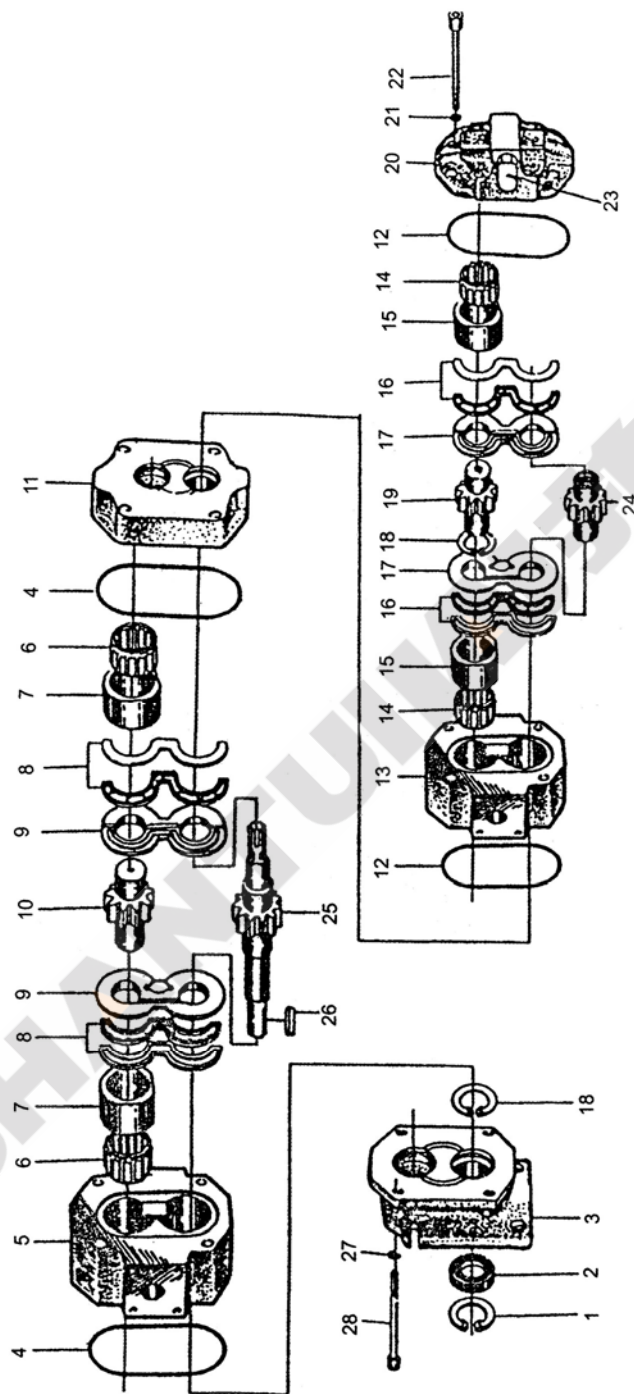


工作分配阀（先导）(SL50W-2)

WORKING DISTRIBUTION VALVE (PPC) (SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
507-1	D1-32-17	盖 cover	3
2	GB1235-76	O 型圈 50×3.5 "O" ring 50×3.5	6
3	D1-32-19	弹簧 1.6×20×64 spring 1.6×20×64	4
4	D1-32-18	锥形阀 cone valve	3
5	D1-32-16	阀套 sleeve	4
6	GB1235-76	O 型圈 4.0×3.1 "O" ring 4.0×3.1	8
7	GB70-85	螺钉 M10×30 screw M10×30	4
8	GB848-76	垫圈 10 washer 10	8
9	D1-32-20	端盖 end cover	2
10	GB1235-76	O 型圈 60×3.1 "O" ring 60×3.1	2
11	D1-32-01	阀体 valve block	1
12	YI-32F	安全阀 safety valve	1
13	JB/ZQ4447-86	螺塞 Z1/2" thread plug Z1/2"	1
14	D1-32-02Q	滑阀(O 型) slide valve(O type)	2
15	D1-32-08	弹簧座 retainer	4
16	D1-32-06	弹簧 2.5×26×56 spring 2.5×26×56	2
17	D1-32-05	弹簧 7×50×48 spring 7×50×48	2
18	D1-32-11	防松螺钉 M10×25 lock screw M10×25	2
19	D1-32-07	端盖 end cover	2
20	GB70-85	螺钉 M10×90 screw M10×90	4
21	YJ-25F	过载阀 overload valve	1
22	D1-32-14	盖 cover	1

第 508 图 双联泵（先导）(SL50W-2)
FIG.508 TANDEM PUMP (PILOT) (SL50W-2)



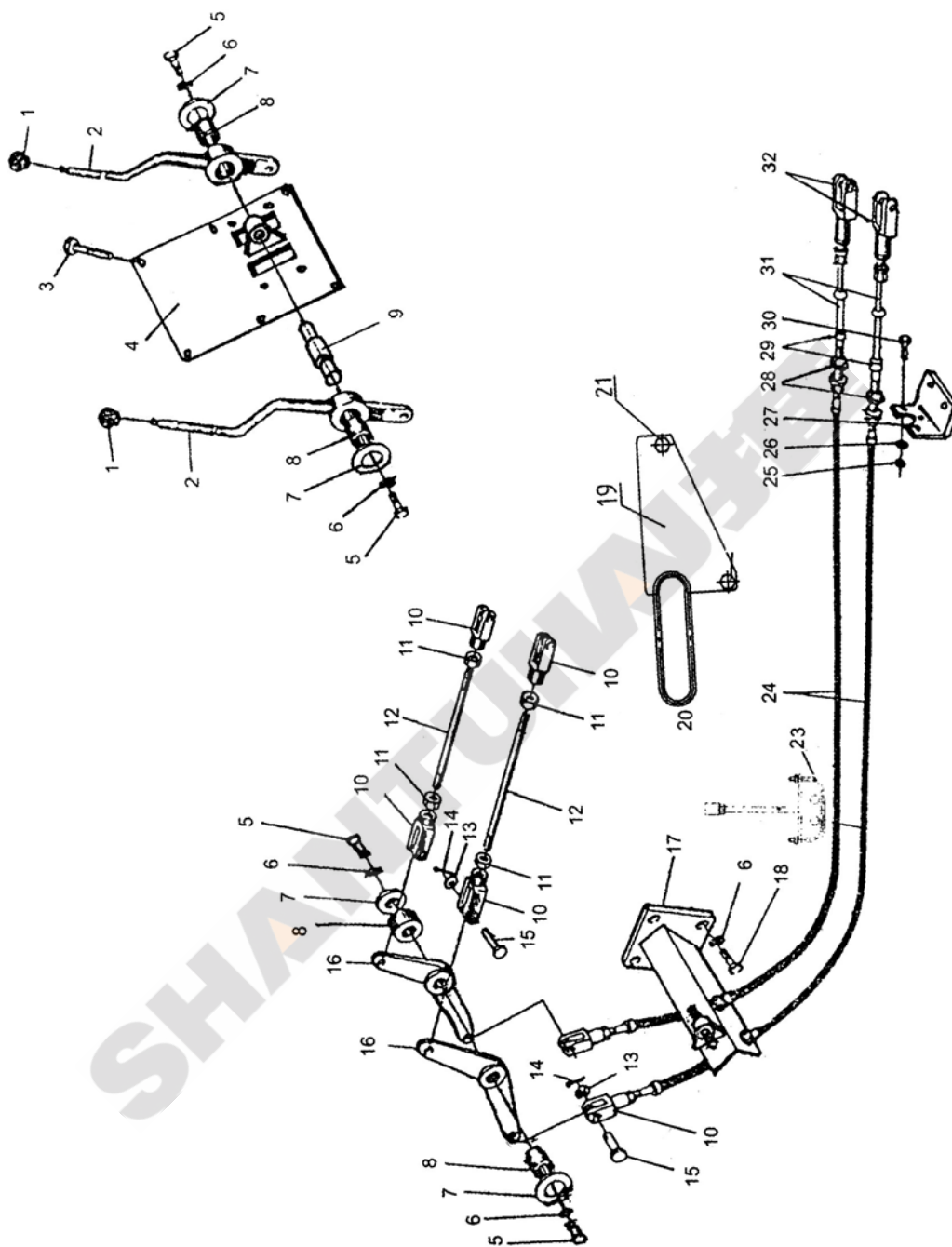
双联泵（先导）(SL50W-2)
TANDEM PUMP (PILOT) (SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
508-1		弹性挡圈 elastic snap ring	1
2		油封 oil seal	2
3		前盖 front cover	1
4		密封圈 seal ring	2
5		前盖 front cover	1
6		轴承 bearing	4
7		轴套 sleeve	4
8		密封件 seal	2
9		侧板 side plate	2
10		从动齿轮轴 driven gear shaft	1
11		中间体 middle part	1
12		矩形密封圈 rectangular seal ring	2
13		泵体 pump block	1
14		轴承 bearing	4
15		轴套 sleeve	4
16		密封件 seal	2
17		侧板 side plate	2
18		弹性挡圈 elastic snap ring	1
19		从动齿轮 2 driven gear 2	1
20		后盖 rear cover	1
21		弹性垫圈 14 lock washer 14	4
22		螺栓 M14 bolt M 14	4
23		溢流阀 relief valve	1
24		主动齿轮 2 drive gear 2	1
25		主动齿轮轴 drive gear shaft	1
26		平键 flat key	1
27		弹性垫圈 16 lock washer 16	4
28		内六角圆柱头螺钉 M16 screw M16	4
29		弹性挡圈 elastic snap ring	1

第 509 图

工作阀操纵机构

FIG.509 WORKING VALVE CONTROL MECHANISM



工作阀操纵机构

WORKING VALVE CONTROL MECHANISM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
509-1	ZL50F III-06109	手柄套 handle knob	2
2	ZL50F III-06102	操纵杆 control lever	2
3	GB5781-86	螺栓 M8×20 bolt M8×20	10
4	ZL50F III-06101	操纵杆支座 control lever supporting frame	1
5	GB5781-86	螺栓 M10×20 bolt M10×20	8
6	GB93-87	弹簧垫圈 10 lock washer 10	12
7	ZL50F III-06112	档板 apron	4
8	ZL50F III-06119	衬套 bush	4
9	ZL50F III-06114	轴 shaft	1
10	ZL50F III-06110	连接叉 clevis	6
11	GB6171-86	螺母 M10×1 nut M10×1	12
12	ZL50F III-06103	连接杆 linkage rod	9
13	GB95-85	平垫圈 8 lock washer 8	6
14	GB91-86	开口销 2×30 split pin 2×30	8
15	ZL50F III-06111	销轴 pin	6
16	ZL50F III-06104	摆臂 rocker arm	2
17	ZL50F III-06105	摆臂支座 supporting frame for rocker ram	1
18	GB5783-86	螺栓 M10×25 bolt M10×25	4
19	ZL50F III-06122	软轴卡 clip for control cable	1
20	ZL50F III-06123	支架 set plate	1
21	GB5781-86	螺栓 M10×35 bolt M10×35	2
23	ZL50F III-06124	管卡 12×75 pipe clip 12×75	1
24		推拉软轴 Φ6×1950 control cable Φ6×1950	2
25	GB6170-86	螺母 M8 nut M8	14
26	GB93-87	弹簧垫圈 8 lock washer 8	22
27	ZL50F III-06115	支架 supporting frame	2
28	YHZ-018	圆关节轴承 joint bearing	4
29	ZL50F III-06117	丝套 silky bush	2
30	GB5781-86	螺栓 M8×25 bolt M8×25	12
31	ZL50F III-06119	短连接杆 short linkage rod	2
32	ZL50F III-06118	连接叉 clevis	2

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变 速 操 纵 机 构

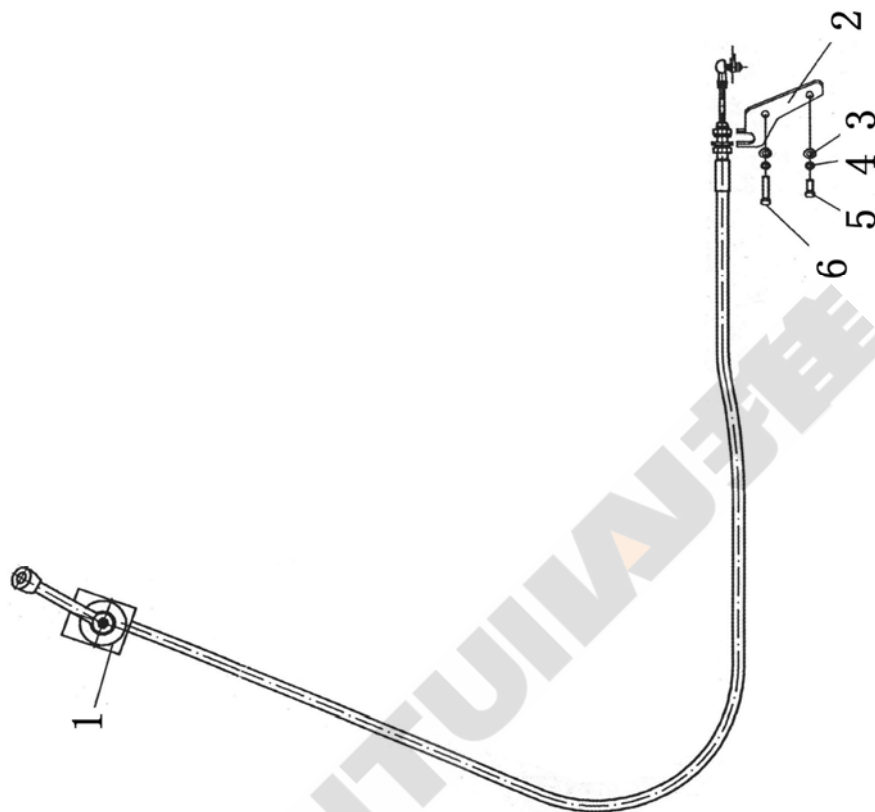
TRANSMISSION CONTROL SYSTEM

SHANTUI 三一

第 601 图

变速操纵机构

FIG.601 GEARSHIFT CONTROL MECHANISM



变速操纵机构

GEARSHIFT CONTROL MECHANISM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
601-1		变速操纵软轴 gearshift control cable	1
2	ZL50F III-03101	支架 set plate	1
3	GB95-85	垫圈 10 washer 10	2
4	GB93-87	弹簧垫圈 10 washer 10	2
5	GB5781-86	螺栓 M10×20 bolt M10×20	1
6	GB5781-86	螺栓 M10×40 bolt M10×40	1

Technical drawing of a mechanical assembly, likely a door hinge or latch mechanism. The drawing shows a side view of the assembly with various components labeled with numbers 1 through 14. The components include a main body (1), a hinge pin (2), a hinge pin sleeve (3), a hinge pin cap (4), a hinge pin cap sleeve (5), a hinge pin cap sleeve cap (6), a hinge pin cap sleeve cap sleeve (7), a hinge pin cap sleeve cap sleeve cap (8), a hinge pin cap sleeve cap sleeve cap sleeve (9), a hinge pin cap sleeve cap sleeve cap sleeve cap (10), a hinge pin cap sleeve cap sleeve cap sleeve cap sleeve (11), a hinge pin cap sleeve cap sleeve cap sleeve cap sleeve cap (12), a hinge pin cap sleeve cap sleeve cap sleeve cap sleeve cap sleeve (13), and a hinge pin cap sleeve cap sleeve cap sleeve cap sleeve cap sleeve cap (14).

加油机构

ACCELERATOR MECHANISM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
602-1	ZL50G2-01014	熄火支架 set plate for extinguishing cable	1
2	GB93-87	垫圈 8 washer 8	2
3	GB5781-86	螺栓 M8×16 bolt	2
4	ZL50G2-01009	油门软轴 push-pull cable for accelerator pedal	1
5	ZL50G2-01011	熄火软轴 extinguishing cable	1
6	XZ(QZ)1129001	油门操作阀 accelerator pedal	1
7	GB5781-86	螺栓 M6×16 bolt M6×16	5
8	GB93-87	垫圈 6 washer 6	5
9	GB6170-86	螺母 M6 nut M6	2
10	ZL50G2-01010	联接叉 clevis	2
11	GB882-86	销轴 6×20 pin 6×20	2
12	GB95-85	平垫 6 washer 6	2
13	GB91-86	开口销 2×20 split pin 2×20	2
14	ZL50G3-01013	油门支架 set plate for accelerator	1
15	GB6170-86	螺母 M5 nut M5	1
16	GB93-87	垫圈 5 washer 5	1
17	ZL50G3-01015	连接轴 connecting rod	1
18	GB5781-86	螺栓 M5×10 bolt M5×10	1
19	ZL50G3-01014	熄火支架 set plate for extinguishing cable	1

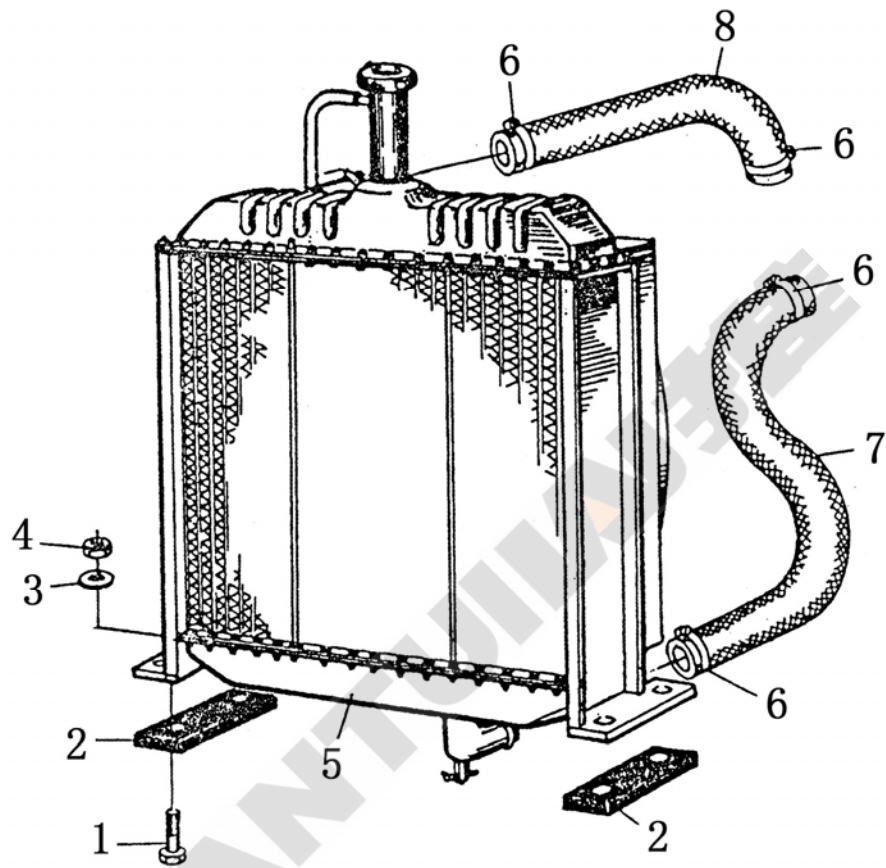
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发 动 机 附 件

ENGINE RELEATED PARTS

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第 701 图 水箱总成
FIG.701 ENGINE RADIATOR ASSEMBLY



水箱总成

ENGINE RADIATOR ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description		数量 Q'ty
701-1	GB5782-86	螺栓 M14×55	bolt M14×55	4
2	ZL50G2-01002	水箱垫	damping spacer	2
3	GB95-85	垫圈 I4	washer I4	4
4	GB889-86	螺母 M14	nut M14	4
5	ZL50 III-1300000	水油结合散热器	oil & water radiator	1
6		双钢丝卡箍(55-60)	double steel wire hose clamp	4
7	ZL50G2-01003	发动机进水管 Φ55×45	engine inlet pipe	1
8	ZL50G2-01015	发动机进水管 Φ55×45	engine inlet pipe	1

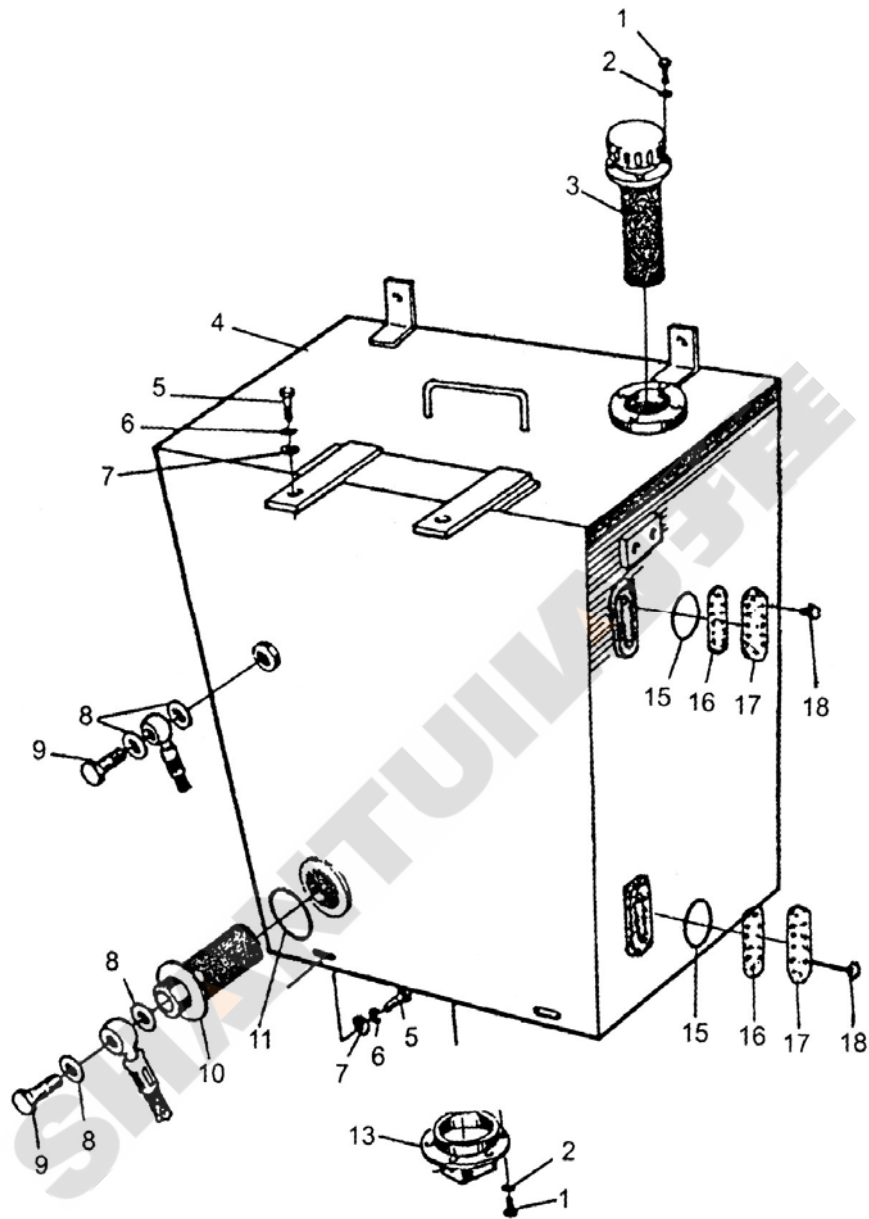
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柴 油 箱

FUEL TANK

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第 801 图 柴油箱总成
FIG.801 FUEL TANK ASSEMBLY

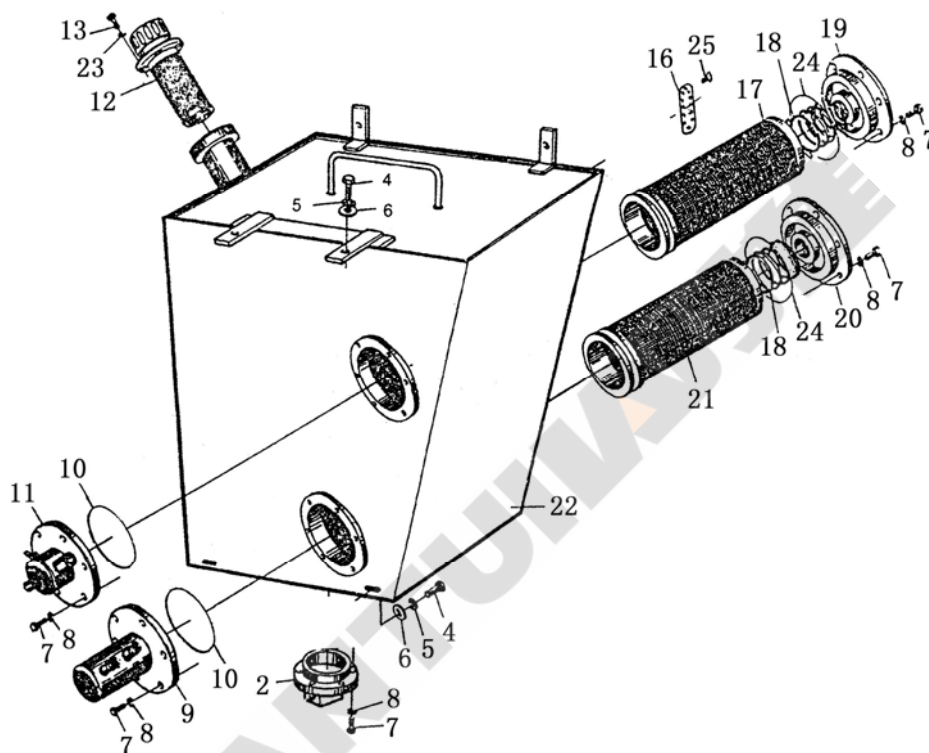


柴油箱总成

FUEL TANK ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
801-1	GB5781-86	螺栓 M8×20	10
2	GB93-87	垫圈 8	10
3	11A 180 μ m	加油滤清器	1
4	ZL50G2-01201	柴油箱体	1
5	GB5783-86	螺栓 M20×40	4
6	GB93-87	垫圈 20	4
7	GB95-85	垫圈 20	4
8	JB982-77	组合垫圈 14	4
9	ZL50G2-01007	铰接螺栓	2
10	Wu25×100-J	吸油滤清器	1
11	GB1235-76	O 型圈 65×3.1	1
13	ZL50G2-0620B	清洗口法兰	1
15	GB1235-76	O 型圈 90×3.1	1
16	ZL50G2-01205	镜片	2
17	ZL50G2-01206	油标盖	2
18	GB68-85	螺钉 M6×20	24

第 802 图 机油箱总成
FIG.802 ENGINE OIL TANK ASSEMBLY



机油箱总成

ENGINE OIL TANK ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
802-2	ZL50G2-06204B	清洗口法兰 flange assembly	1
4	GB5783-86	螺栓 M20×40 bolt M20×40	4
5	GB95-85	垫圈 20 washer 20	4
6	GB93-87	垫圈 20 washer 20	4
7	GB5783-86	螺栓 M8×20 bolt M8×20	18
8	GB93-87	垫圈 8 washer 8	18
9	ZL50G2-06021	吸油接头总成 suction connector asy	1
10	GB1235-76	O 型圈 65×3.1 "O" ring 65×3.1	2
11	ZL50G2-06022A	回油接头总成 oil return asy	1
12	QL-32	加油滤清器 oil filler screen	1
13	GB5781-86	螺栓 M6×35 bolt M6×35	4
16	YWZ-127	油标 oil mark	1
17	ZL50G2-06209	回油滤清器 return oil screen	1
18	ZL50G2-06202-2	弹簧 spring	2
19	ZL50G2-06202-1	滤网顶盖 1 screen cover 1	1
20	ZL50G2-06211-1	滤网顶盖 2 screen cover 2	1
21	ZL50G2-06207	吸油滤清器 suction oil screen	1
22	ZL50G2-06201	机油箱体 engine oil tank	1
23	GB93-87	垫圈 6 washer 6	4
24	GB1235-76	O 型圈 140×3.1 "O" ring 140×3.1	2
25	GB68-85	螺钉 M6×20 bolt M6×20	12
11	ZL50F III-06009A	回油接头总成 oil return asy	1

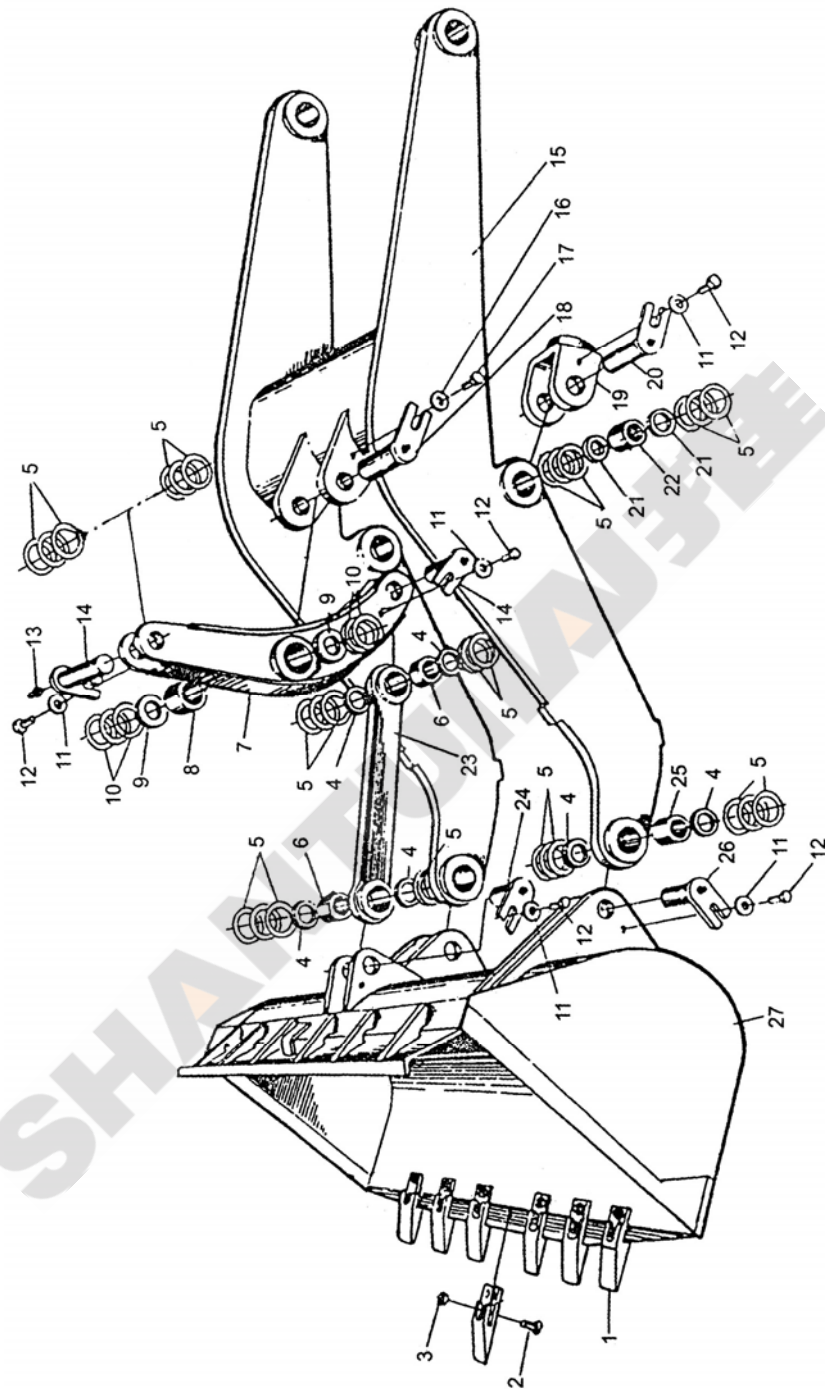
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工 作 装 置 及 车 架

WORKING DEVICE & FRAME

SHANTUI 手册

第 901 图 工作装置总成
FIG.901 WORKER DEVICE & ASSEMBLY

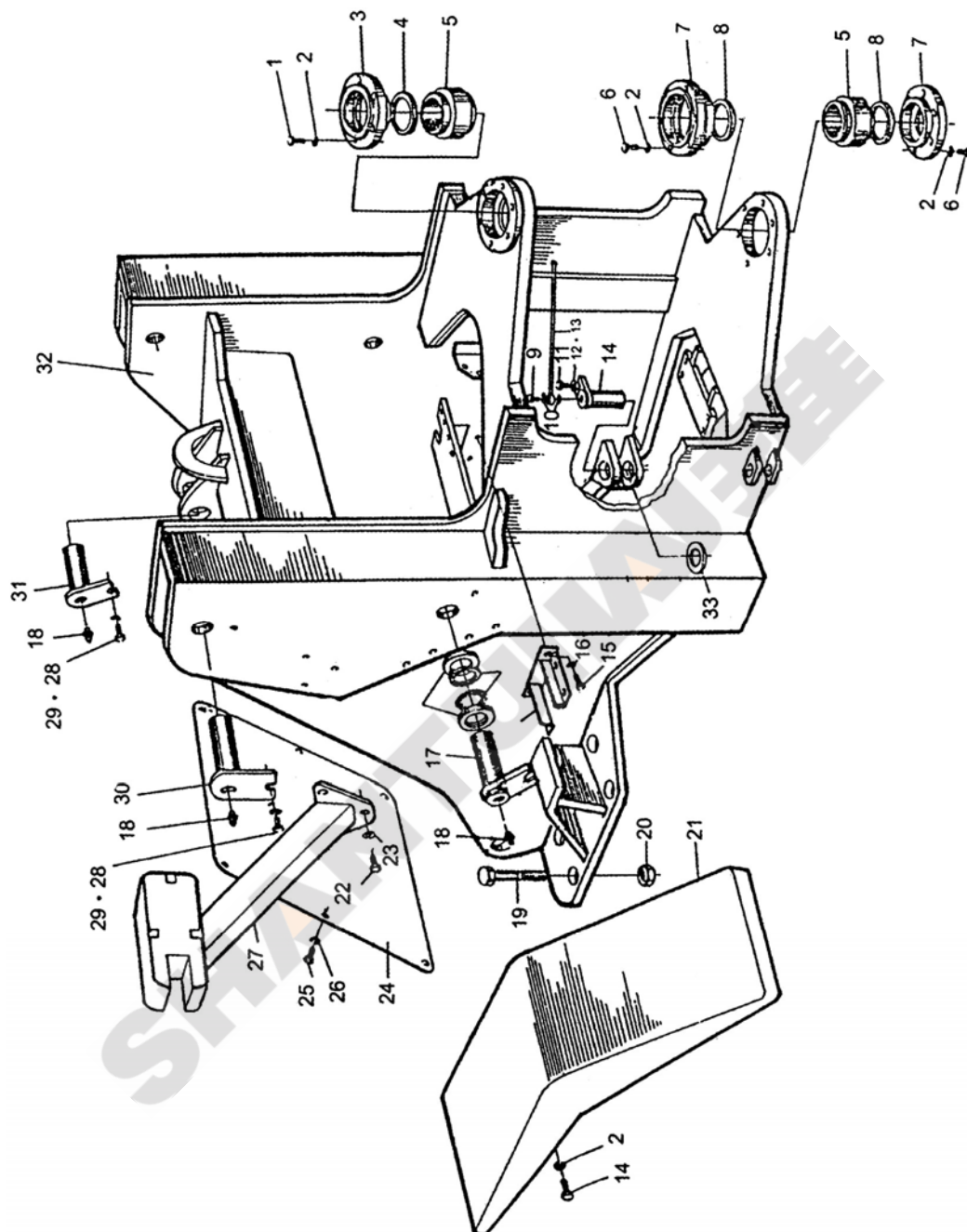


工作装置总成

WORKER DEVICE & ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
901-1	ZL50G2-11100-1	中间斗齿 mid-bucket teeth	5
	ZL50G2-11100-2	角斗齿 corner bucket teeth	2
2	GB68-88	方头螺栓 M20×75 bolt M20×75	16
3	GB170-86	螺母 M20 nut M20	16
4	ZL50G2-11000-2	防尘圈 dustring	8
5	ZL50G2-11000-1	调整垫片 adjusting spacer	1 组
6	ZL50G2-11000-5	铲斗动臂衬套 bush, bucket linkage rod pin	2
7	ZL50G2-11300	摇臂 rocker arm	1
8	ZL50G2-11000-7	摇臂主销衬套 buch, rocker arm main pin	1
9	H64-692-67	油封 PD120×150×14 oil seal PD120×150×14	2
10	ZL50G2-11000-6	调整垫片 adjusting spacer	1 组
11	GB93-87	垫圈 20 washen 20	7
12	GB5783-86	螺栓 M20×30 bolt M20×30	7
13	GB1152-79	油杯 M10×1 oil cup M10×1	8
14	ZL50G2-11700	轴总成 shaft asy	2
15	ZL50G2-11400	动臂 lifl arm	1
16	GB95-85	垫圈 24 washer 24	1
17	GB5783-86	螺栓 M24×40 boll M24×40	1
18	ZL50G2-11800	轴总成 shaft asy	1
19	ZL50G2-11000-9	举升缸叉头 lift cylinder head	2
20	ZL50G2-11900	轴总成 shaft asy	2
21	HG4-692-67	油封 PD70×90×12 oil seal PD70×90×12	4
22	ZL50G2-11000-8	动臂中销衬套 buch, lift arm middle pin	2
23	ZL50G2-11200	连杆 linkage rode	1
24	ZL50G2-11600	轴总成 shaft asy	1
25	ZL50G2-11000-3	铲斗动臂衬套 bush, Buchet & lift arm pin	2
26	ZL50G2-11500	轴总成 shaft asy	2
27	ZL50G2-11100	铲斗 bucket	1

第 902 图 前车架总成
FIG.902 FRONT FRAME ASSEMBLY

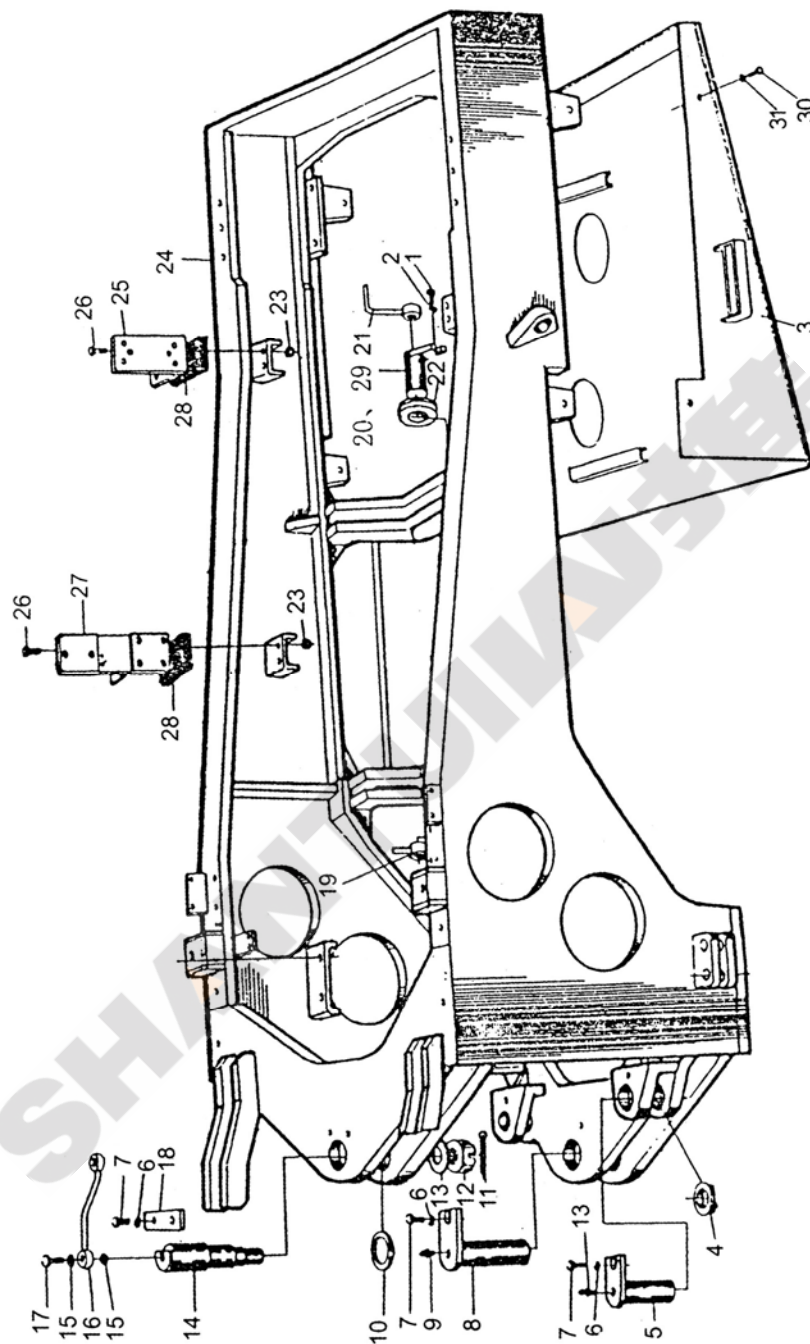


前车架总成

FRONT FRAME ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
902-1	GB5783-86	螺栓 M12×35	8
2	01643-31232	垫圈 12	31
3	ZL50G2-09005	轴承盖	1
4	SJM03-1	防尘圈 80	1
5	GB304.5-81	关节轴承 GE70ES	2
6	01016-51230	螺栓 M12×30	16
7	ZL50G2-09009	下铰接轴承盖	2
8	SJM03-1	防尘圈 70	2
9	ZL50G2-09003	铰接螺栓 M10×1	6
10	JB982-77	组合垫 10	12
11	GB5783-86	螺栓 M12×35	5
12	GB95-85	垫圈 12	3
13	ZL50G2-09700	前转向润滑油管	2
14	ZL50G2-09600	转向缸前销轴总成	2
15	GB5783-86	螺栓 M10×25	6
16	GB93-87	垫圈 10	6
17	ZL50G2-09500	举升缸后销轴总成	2
18	GB1152-79	油杯 M10×1	9
19	GB5782-86	螺栓 M30×280	8
20	GB889-86	螺母 M30	8
21	ZL50G2-13100	前挡泥板总成	2
22	GB5781-86	螺栓 M10×25	6
23	GB95-86	垫圈 10	6
24	ZL50G2-09001	小盖板	1
25	01010-50820	螺栓 M8×20	6
26	01643-30823	垫圈 8	6
27	ZL50G2-15008	灯架总成	2
28	01643-32060	垫圈 20	5
29	01016-52040	螺栓 M20×40	5
30	ZL50G2-09400	动臂后销轴总成	2
31	ZL50G2-09300	翻斗缸后销轴总成	1
32	ZL50F III-09100	前车架	1
33	ZL50G2-09002	支承垫	2

第 903 图 后车架总成
FIG.903 REAR FRAME ASSEMBLY

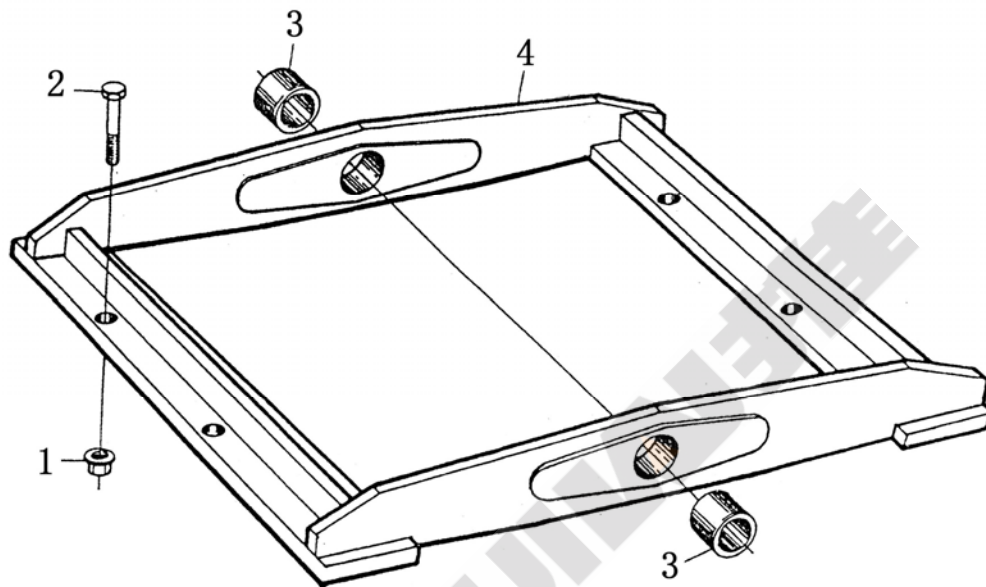


后车架总成

WREAR FRAME ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
903-1	GB5783-86	螺栓 M20×40 bolt M20×40	4
2	GB95-85	垫圈 20 washer 20	4
3	ZL50G2-10300	防护罩 guard hood	1
4	ZL50G2-10007	支承套 support sleeve	2
5	ZL50G2-10500	转向缸轴 pin, steering cylinder	2
6	01643-31232	垫圈 12 washer 12	10
7	01016-51225	螺栓 M12×25 bolt M12×25	2
8	ZL50G2-09900	下铰接轴总成 lower joint pin asy	1
9	GB1152-79	油杯 M10×1 oil indicator M10×1	9
10	ZL50G2-09006	隔套 split sleeve	1
11	GB91-86	销 6.3×63 pin 6.3×63	1
12	ZL50G2-09008	开槽螺母 M48×3 crown nut M48×3	1
13	GB93-87	垫圈 48 washer 48	1
14	ZL50G2-09004	上铰接轴 upper joint pin asy	1
15	JB982-77	组合垫圈 10 washer 10	2
16	ZL50G2-09800	黄油管总成 lube tube asy	1
17	ZL5DG2-09003	铰接螺栓 M10×1 joint bolt M10×1	1
18	ZL5DG2-09011	挡板 snap board	1
19	ZL50G2-10009	油管 tube	1
20	ZL50G2-10600	副车架轴 oscillating frame pin	1
21	ZL5DG2-10008	油管 tube	1
22	ZL50G2-10006	垫片 spacer	6
23	GB889-86	螺母 M16 nut M16	8
24	ZL50F3-10100	车架体(2L50F-III) rear frame body	1
25	ZL50G2-01005	发动机前支架(ZL50G-II) front support, engine	2
	ZL50G2-01004	发动机前支座(ZL50F-III) front support, engine	
26	GB5782-86	螺栓 M16×90 bolt M16×90	8
27	ZL50G2-01008	发动机后支架(ZL50G-II) rear support, engine	8
27	ZL5DG2-01017	发动机后支重(ZL50F-III) rear support, engine	2
28	ZL5DG2-01004	发动机减振垫 shock absorpted space, engine	4
29	ZL5DG2-10700	副车架轴 aseillating frame pin	1
30	01016-52040	螺栓 M20×40 bolt M20×40	4
31	01643-32060	垫圈 20 washer 20	4

第 904 图 摆动架总成
FIG.904 OSCILLATING FRAME ASSEMBLY

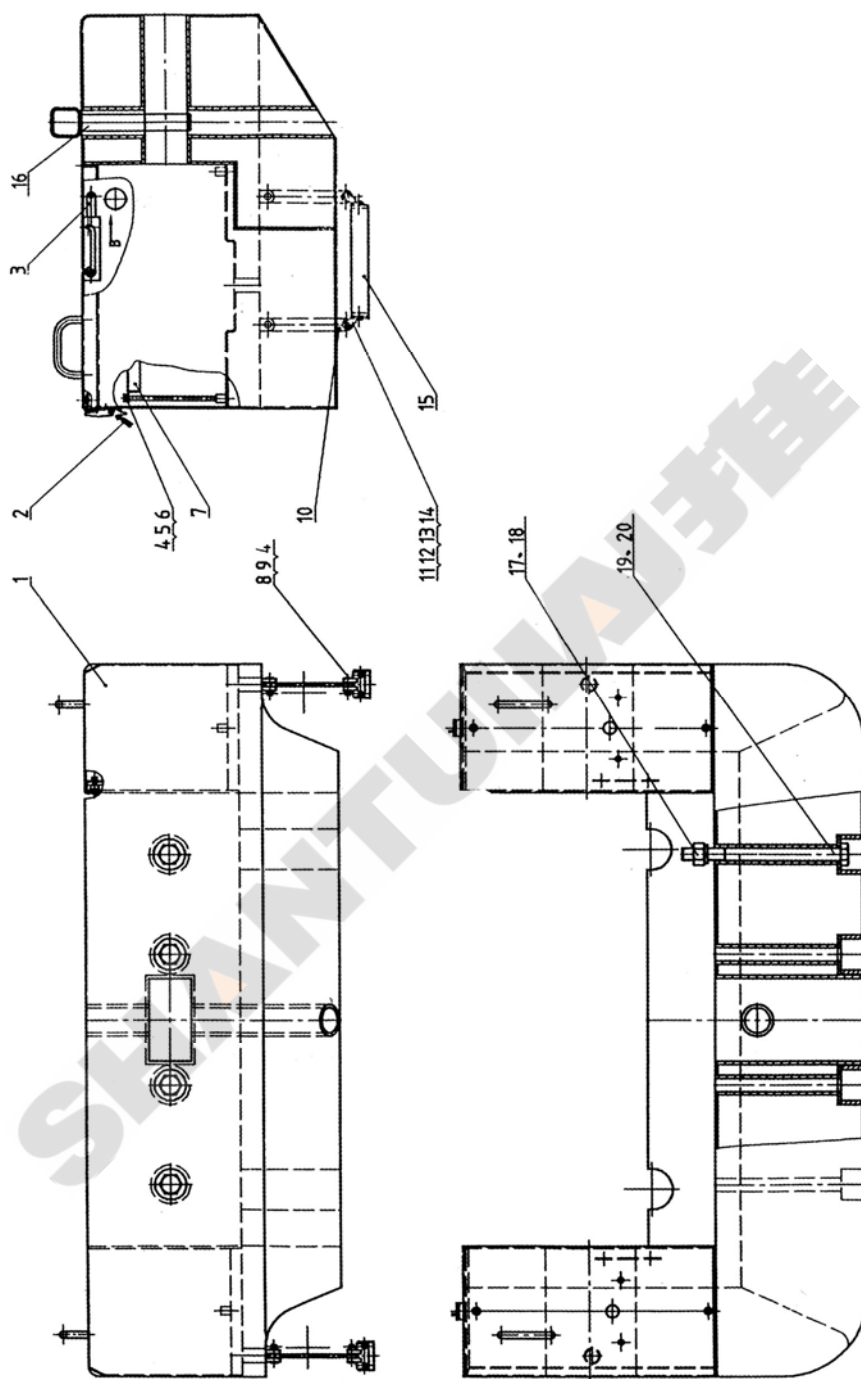


摆动架总成

OSCILLATING FRAME ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
904-1	GB889-86	螺母 M30 nut M30	16
2	GB5785-86	螺栓 M30×2×290 bolt M30×2×290	16
3	ZL50G2-10005	轴套 bush	2
4	ZL50G2-10400	副车架 oscillating	1

第 905 图 配重装置总成
FIG.905 COUNTER WEIGHT ASSEMBLY



配重装置总成

COUNTER WEIGHT ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
905-1	ZL50G2-10001B-1	配重铁 counter weight	1
2		挂锁总成 lock staple	1
3		挂板 chain belt	1
4	ZL50G2-10203	螺栓 bolt	2
5	GB95-85	垫圈 10 washer 10	6
6	GB93-87	垫圈 10 washer 10	2
7	ZL50G2-10204	压盖总成 cover asy	1
8	ZL50G2-10208	销轴 pin	8
9	GB91-86	销 3×30 pin 3×30	8
10	ZL50G2-10205	挂板 chain belt	4
11	ZL50G2-10207	固定座 set seat	4
12	01010-50820	螺栓 M8×20 bolt M8×20	8
13	01643-30823	垫圈 8 washer 8	8
14	GB6170-86	螺母 M8 nut M8	8
15	ZL50G2-10206	脚蹬 pedal	2
16	ZL50G2-10002	销轴 pin	1
17	GB6170-86	螺母 M30 nut M30	4
18	GB93-87	垫圈 30 washer 30	4
19	GB5782-86	螺栓 M30×330 bolt M30×330	4
20	ZL50G2-10010	垫圈 washer	4

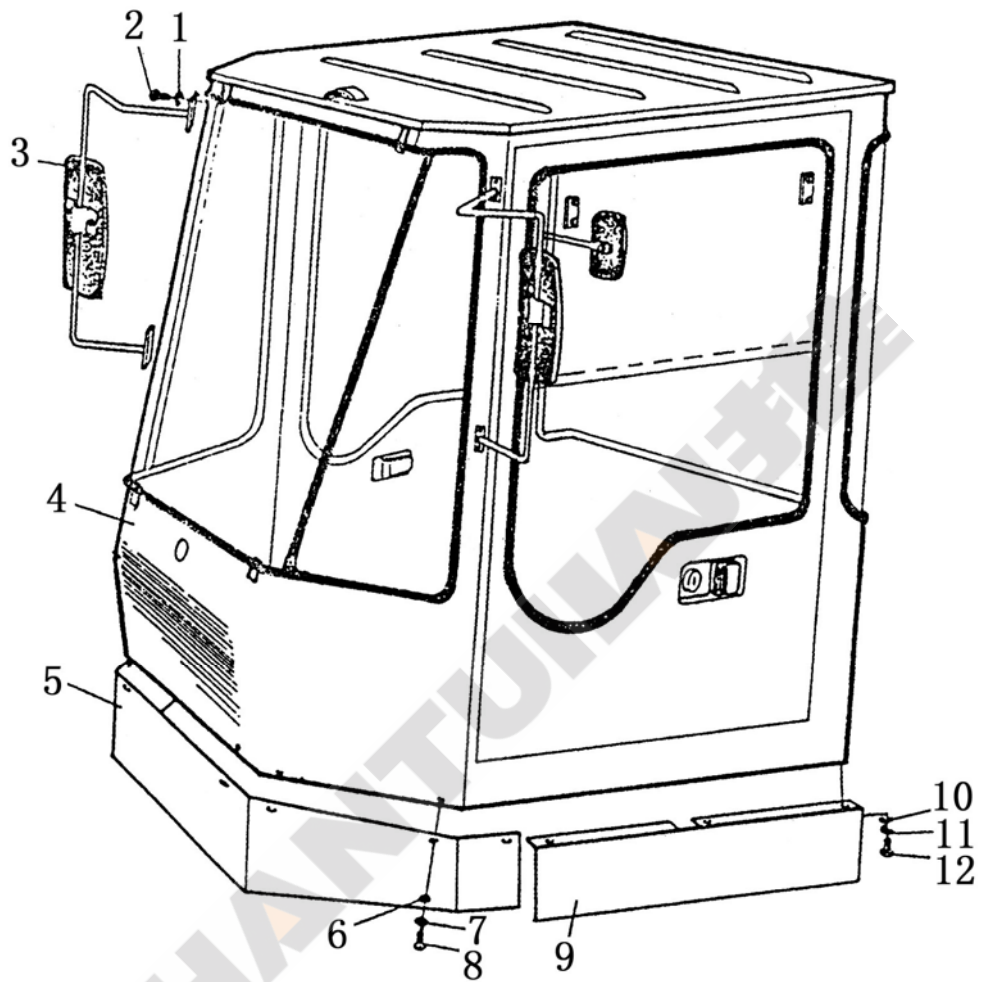
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驾驶室及地板

CAB AND FLOOR

SHANTUI 手册

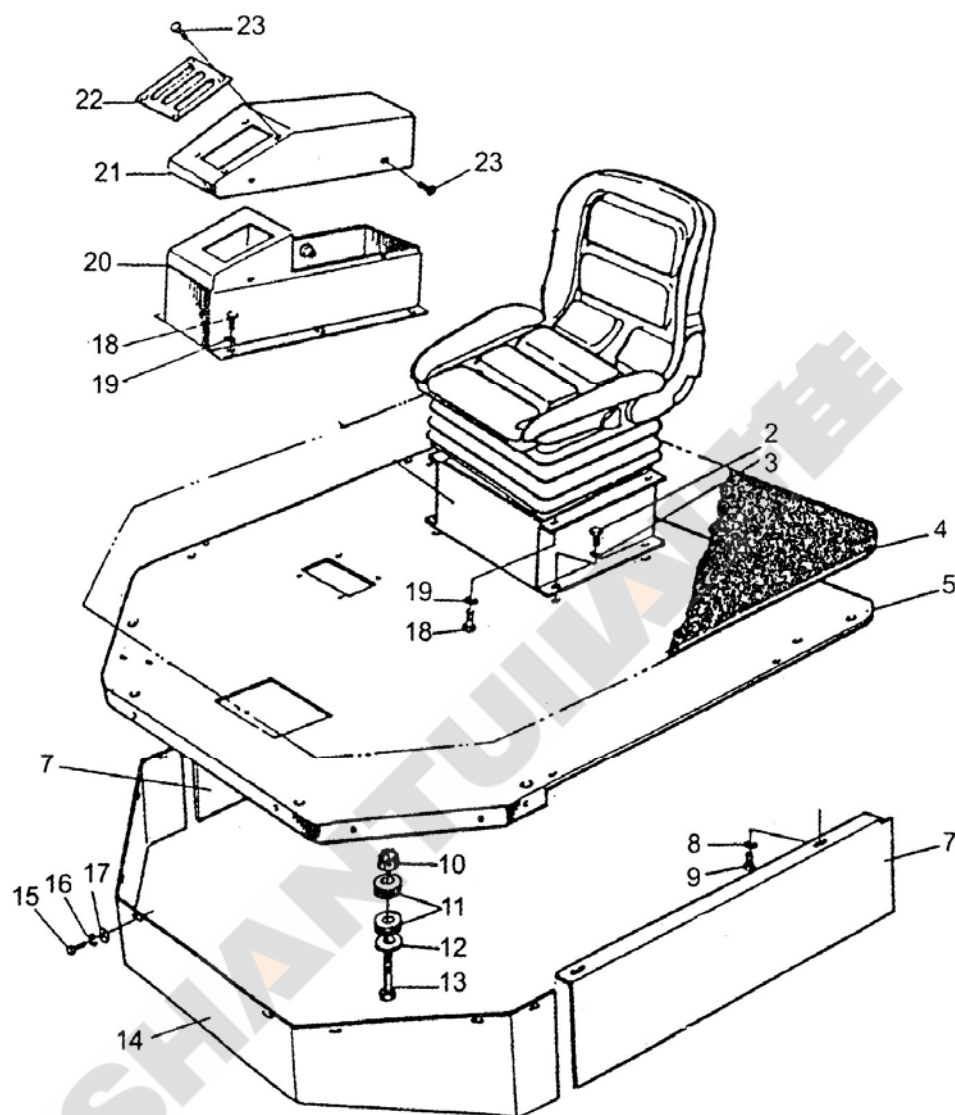
第 1001 图 驾驶室总成
FIG.1001 CAB ASSEMBLY



驾驶室总成
CAB ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1001-1	GB93-87	垫圈 10 washer 10	4
2	GB5783-86	螺栓 M10×20 bolt M10×20	4
3		倒车镜组件 reverse mirror module	2
4	ZL50G2-14000	驾驶室 cab	1
5	ZL50G2-13204	挡板 apron	1
6	GB95-85	垫圈 6 washer 6	8
7	GB93-87	垫圈 6 washer 6	8
8	GB67-85	螺钉 M6×12 bolt M6×12	8
9	ZL50G2-13207	挡板 apron	2
10	GB95-85	垫圈 8 washer 8	4
11	GB93-87	垫圈 8 washer 8	4
12	GB5781-86	螺栓 M8×10 bolt M8×10	4

第 1002 图 地板总成（先导）
 FIG.1002 FLOOR ASSEMBLY (PILOT) (SL50W-2)

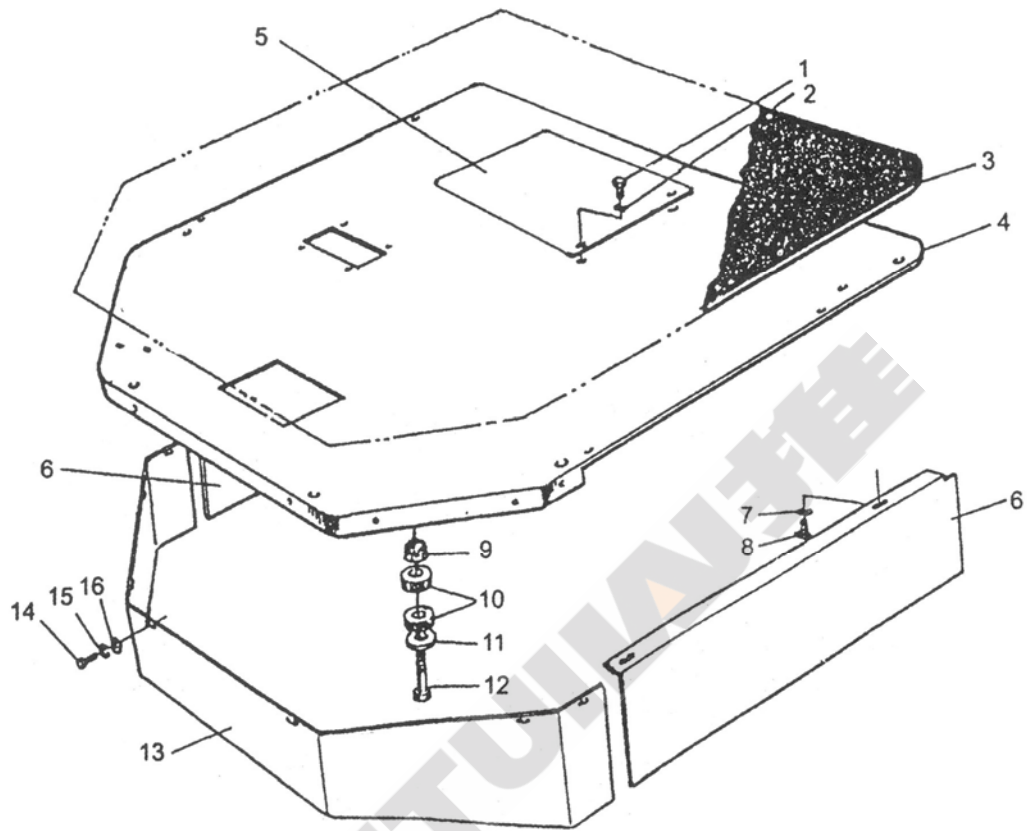


地板总成（先导）

FLOOR ASSEMBLY (PILOT) (SL50W-2)

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1002-2	GB5783-86	螺栓 M10×20	4
3	GB93-87	弹簧垫圈 10	4
4	ZL50F III-13003 (ZL50F-III)	地板	1
5	ZL50G3-13201 (ZL50F-III)	台座	1
7	ZL50G2-13207	挡板	2
8	GB95-85	平垫圈 8	4
9	GB5781-86	螺栓 M8×10	4
10	GB889-86	螺母 M20	4
11	ZL50G2-13002	橡胶垫	8
12	ZL50G2-13001	垫	4
13	GB5782-86	螺栓 M20×100	4
14	ZL50G2-13204	挡板	1
15	GB67-85	螺钉 M6×12	8
16	GB95-85	垫圈 6	8
17	GB93-87	弹簧垫圈 6	14
18	GB5783-86	螺栓 M8×20	6
19	GB93-87	垫圈 8	6
20	ZL50G2-13203	先导阀支架	1
21	ZL50G2-06008	上盖	1
22	ZL50G2-06006	盖板	1
23	GB5781-86	螺栓 M6×12	6

第 1003 图 地板总成
FIG.1003 FLOOR ASSEMBLY

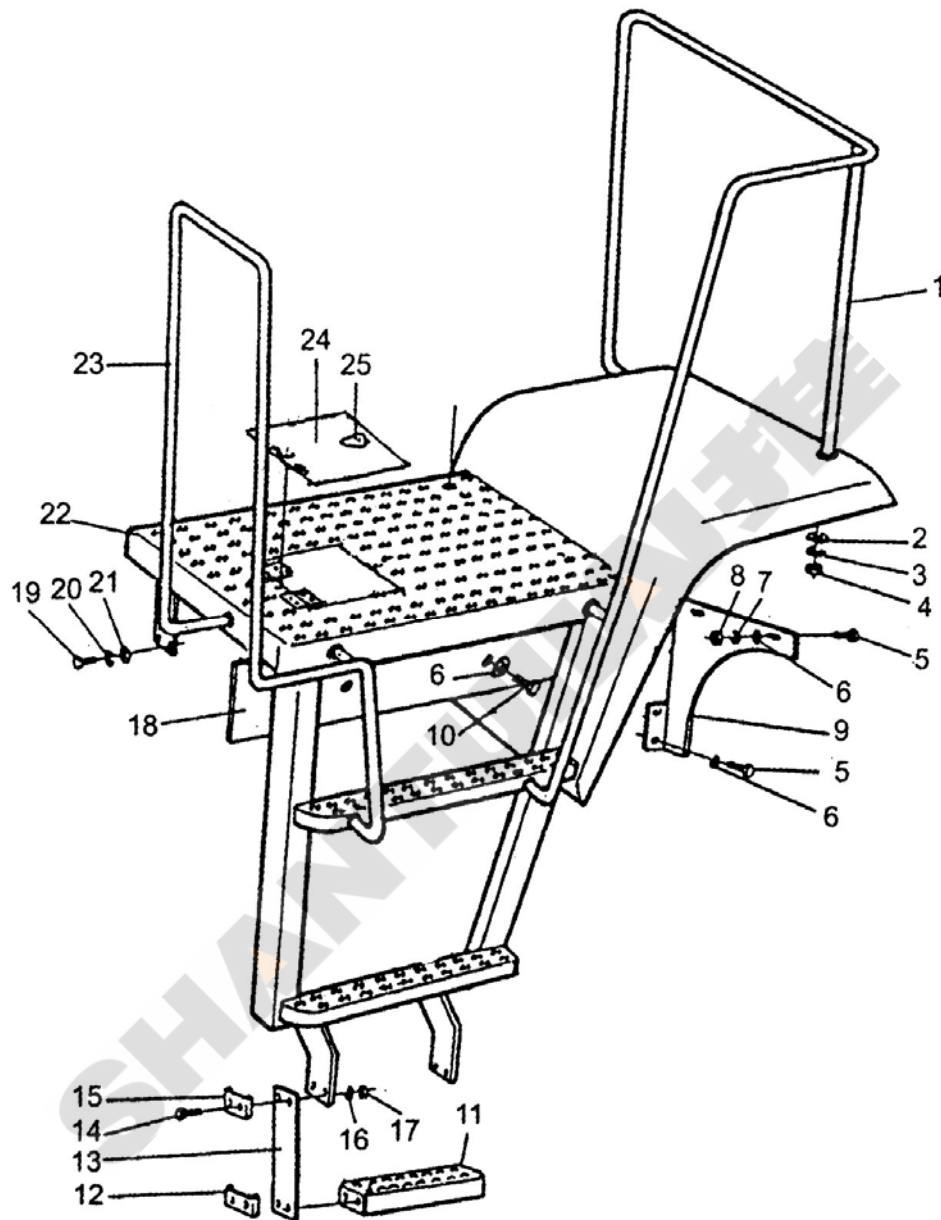


地板总成

FLOOR ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1003-1	GB5781-86	螺栓 M8×16	4
2	GB93-87	弹簧垫圈 8	4
3	DG956W-13003	地板	1
4	DG956W-13201	台座	1
5	DG956-13205	盖	1
6	ZL50G2-13207	挡板	2
7	GB95-87	平垫圈 8	4
8	GB5781-86	螺栓 M8×10	4
9	GB889-86	螺母 M20	4
10	ZL50G2-13002	橡胶垫	8
11	ZL50G2-13001	垫	4
12	GB5782-86	螺栓 M20×100	4
13	ZL50G2-13204	挡板	1
14	GB5787-86	螺钉 M8×16	22
15	GB95-85	垫圈 6	8
16	GB93-87	弹簧垫圈 6	8

第 1004 图 侧地板总成
FIG.1004 SIDE FLOOR ASSEMBLY



侧地板总成

SIDE FLOOR ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1004-1	ZL50G2-13502	后扶手 rear handrail	1
2	GB96-85	垫圈 16 washer 16	7
3	GB93-87	垫圈 16 washer 16	7
4	GB6170-86	螺母 M16 nut M16	7
5	GB5783-86	螺栓 M12×40 bolt M12×40	4
6	GB96-85	垫圈 12 washer 12	8
7	GB93-87	垫圈 12 washer 12	6
8	GB6170-86	螺母 M 12 nut M12	4
9	ZL50G2-13527	支座 support seat	1
10	GB5783-86	螺栓 M12×25 bolt M12×25	2
11	ZL50G2-13510	踏板 step	1
12	ZL50G2-13511	固定压板 clamping plate	2
13	ZL50G2-13509	拉带 chain belt	4
14	GB5783-86	螺栓 M8×35 bolt M8×35	8
15	ZL50G2-13508	固定压板 clamping plate	2
16	GB93-87	垫圈 8 washer 8	8
17	GB6170-86	螺母 M8 nut M8	8
18	ZL50G2-06210	挡板 apron	1
19	GB5783-86	螺栓 M10×25 bolt M10×25	2
20	GB93-87	垫圈 10 washer 10	2
21	GB96-85	垫圈 10 washer 10	2
22	ZL50G2-13516	侧地板 Side floor	1
23	ZL50G2-13501	前扶手 front handrail	1
24	ZL50G2-13519	盖 cover	1
25	ZL50G2-13520	扳手 spanner	1

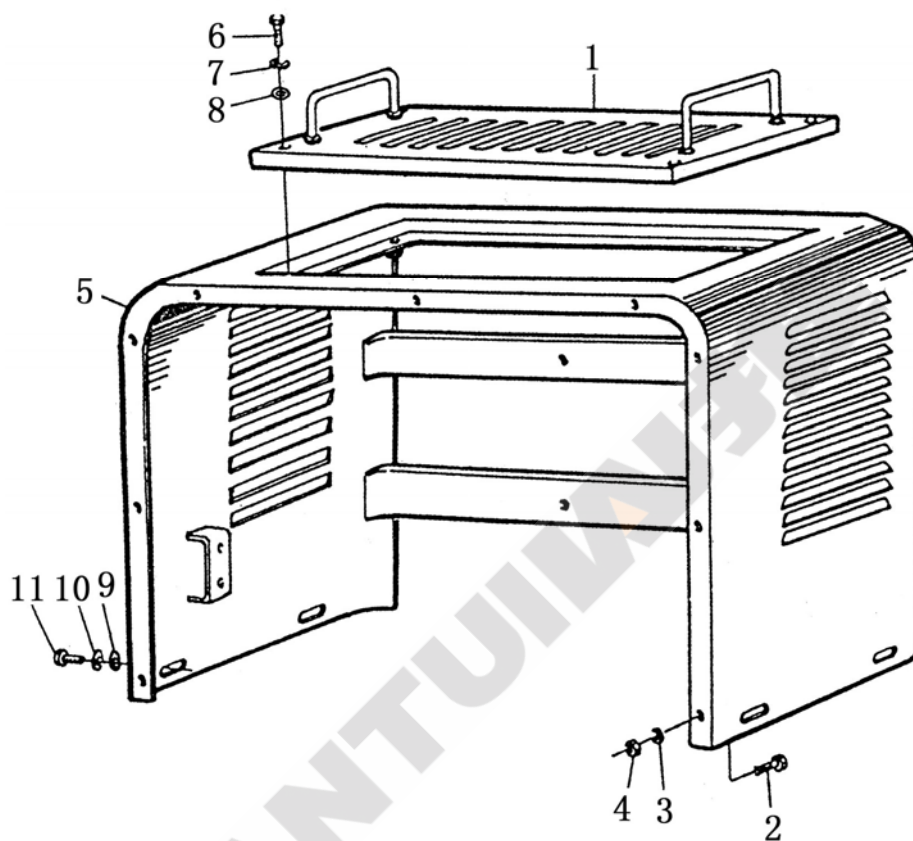
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发 动 机 罩

ENGINEHOOD

SHANTUI 手册

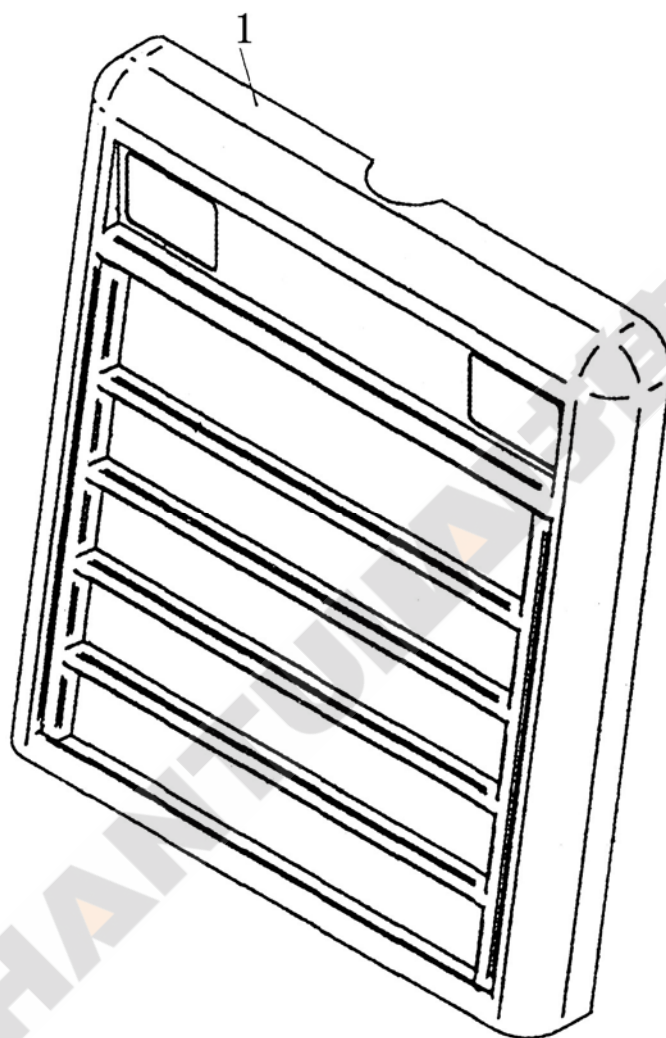
第 1101 图 前罩
FIG.1101 FRONT HOOD



前 罩
FRONT HOOD

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1101-1	ZL50G2-13401-11	盖板 cover plate	1
2	GB5782-86	螺栓 M10×30 bolt M10×30	9
3	GB93-87	垫圈 10 washer 10	9
4	GB6170-86	螺母 M10 nut M10	9
5	ZL50G2-13401	前罩 front hood	1
6	GB5781-86	螺栓 M12×25 bolt M12×25	4
7	GB93-87	垫圈 12 washer 12	4
8	GB95-85	垫圈 12 washer 12	4
9	GB93-87	垫圈 16 washer 16	4
10	GB95-85	垫圈 16 washer 16	4
11	GB5783-86	螺栓 M16×35 bolt M16×35	4

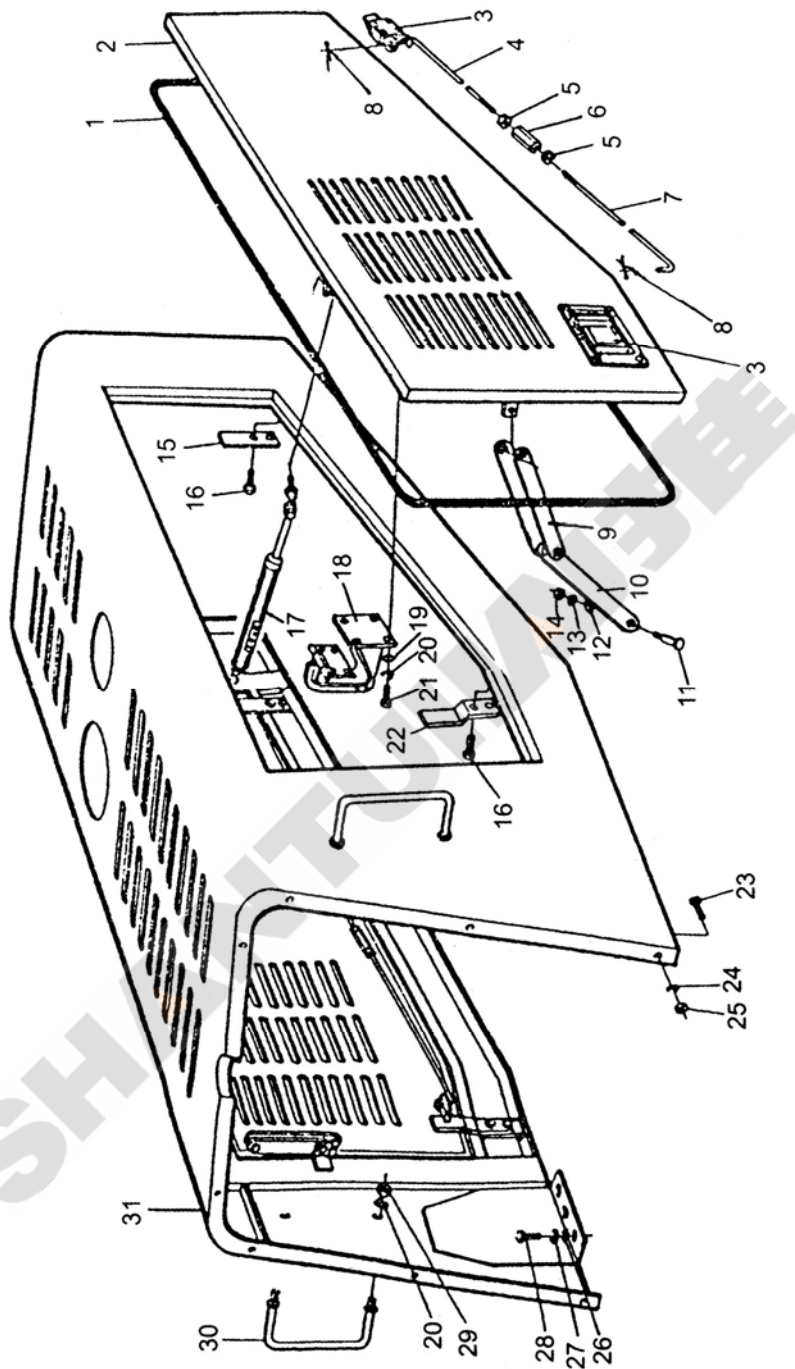
第 1102 图 后 罩
FIG.1102 REAR HOOD



后 罩
REAR HOOD

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1102-1	ZL50G2-13405	后罩 rear hood	1

第 1103 图 发动机罩主体
FIG.1103 ENGINE HOOD ASSEMBLY



发动机罩主体

ENGINE HOOD ASSEMBLY

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1103-1	ZL50G2-13408	门密封条	1
2	ZL50G2-13403	侧门	
3	ZL50G2-13403-5	NBS504 型机罩锁	
4	ZL50G2-13403-4-1	圆钢	
5	GB6170-86	螺母 M6	
6	ZL50G2-13403-4-3	丝套	
7	ZL50G2-13403-4-2	圆钢	
8	GB91-86	外口销 $\Phi 2$	
9	ZL50G2-13407-3	板	
10	ZL5aG2-13407-1	板	
11	ZL50G2-13414	螺柱	
12	GB95-85	垫圈 8	
13	GB6170-86	螺母 M8	
14	GB93-87	垫圈 8	
15	ZL50G2-13402-11	挡板	
16	GB5783-86	螺栓 M12 $\times$ 25	
17	ZL50G2-13410	气弹簧	
18	ZL50G2-13406	铰链	
19	GB95-85	垫圈 12	
20	GB93-87	垫圈 12	
21	GB5783-86	螺栓 M12 $\times$ 30	
22	ZL50G2-13402-12	挡板	
23	GB5783-86	螺栓 M10 $\times$ 30	
24	GB93-87	垫圈 10	
25	GB6170-86	螺母 M10	8
26	GB96-85	垫圈 16	6
27	GB93-87	垫圈 16	6
28	GB5783-86	螺栓 M16 $\times$ 35	6
29	GB6170-86	螺母 M12	4
30	ZL50G2-13404	扶手	2
31	ZL50G2-13402	中罩	1

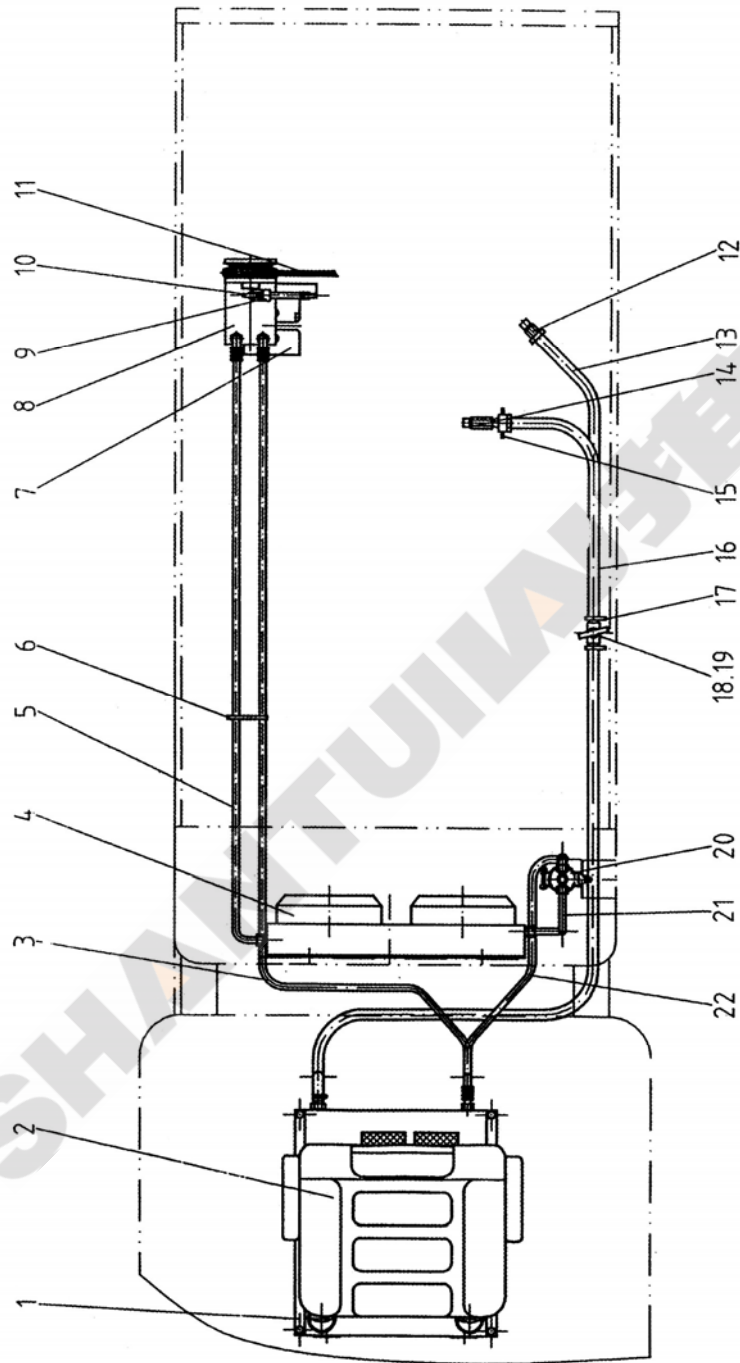
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CONTROL PANNEL AND ELECTRIC INSTRUMENT

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第 1201 图 空调系统
FIG.1201 AIR CONDITIONER SYSTEM

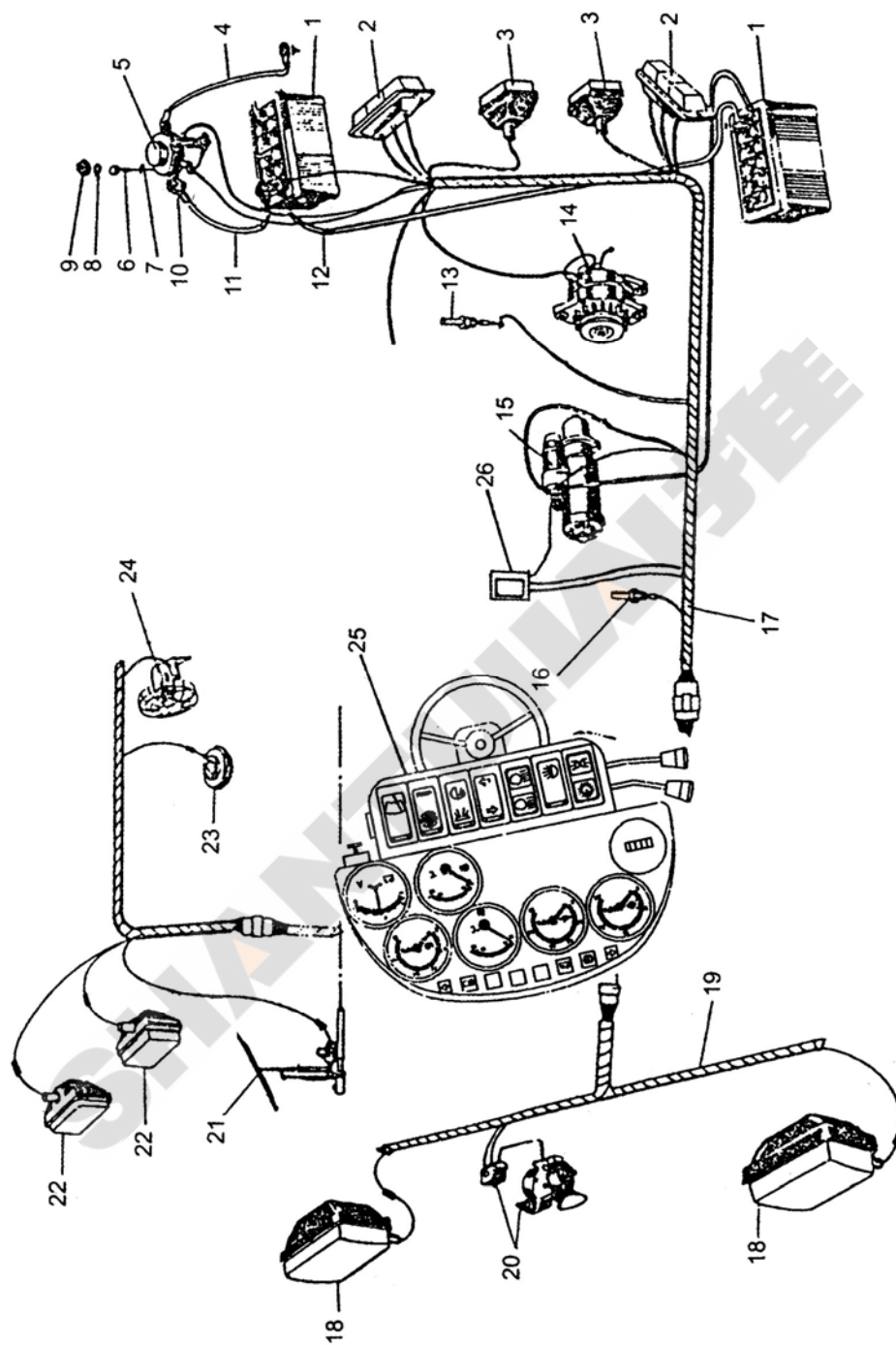


空调系统

AIR CONDITIONER SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1201-1		蒸发器 evaporator	1
2	ZYIA22	座椅 seat	1
3	DG956-17006	蒸发器至压缩机胶管 tube between evaporator & compressor	1
4		冷凝器 condenser	1
5	DG956-17009	压缩机至冷凝器胶管 tube between compressor & condenser	1
6	ZD200×8	扎带 clip	4
7	DG956-17005	压缩机支架 compressor frame	1
8		压缩机 compressor	1
9		固定板 set plate	1
10		调整杆 adjusting rod	1
11	17-530	三角带 belt	1
12	DG956-17004	过渡接头 transition tie-in	1
13	DG956-17002	出水管 exit pipe	1
14	DG956-17003	接头 tie-in	1
15		进水阀门 valve	1
16		进水管 inlet pipe	1
17	DG956-17011	环箍 hoop	6
18		放水接头 tie-in	1
19		放水开关 switch	1
20		干燥储液器 receiver	1
21	DG956-17008	冷凝器至干燥储液器胶管 tube between condenser & receiver	1
22	DG956-17007	干燥储液器至蒸发器胶管 tube between receiver & evaporator	1

第 1202 图 电气系统
FIG.1202 ELECTRIC SYSTEM



电气系统

ELECTRIC SYSTEM

序号 Index No.	件 号 Part No.	名 称 Description	数量 Q'ty
1202-1	N200S	蓄电池总成 accumulator asy	2
2	32B0055	三色后灯 rear combined lamp	2
3	175×110	方形后大灯 rear lamp	2
4	ZL50G2-15012	搭铁线 wire tapping steel	1
5	37D52-16010	电磁式电源总开关 electromagnetic power switch	1
6	GB5781-86	螺栓 M10×25 bolt M10×25	12
7	GB93-87	垫圈 10 washer 10	16
8	GB95-86	垫圈 10 washer 10	14
9	GB6170-86	螺母 M0 nut M10	10
10	ZL50G2-15016	绝缘套 2 insulative sleeve	2
11	ZL50G2-15011	电瓶搭铁线 battery wire	1
12	ZL50G2-15010	电瓶连接线 battery wire	1
13		水温传感器 sensor for coolant temperature	1
14		发电机总成 generator asy	1
15		起动机总成 stator asy	1
16		变速箱油温传感器 sensor for oil level of transmission	1
17	ZL50G2-15004	后线束 rear wire batch	1
18		HG 组合式前大灯 HG front combined lamp	2
19	ZL50G2-15006	前线束 front wire batch	1
20	DL52B	双音盆形电喇叭 horn	1
21	ZD2530 24V	刮水器 scraper	1
22		HG 卡特工作灯 HG CAT working lamp	2
23	Z-216	长型顶灯总成 24V ceiling lamp	1
24	10" 24V	风扇 fan	1
25		整体式仪表台 dashboard	1
26	JN3A 24V	启动继电器 start relay	1