



EXCAVATOR

PARTS BOOK

挖掘机零件手册



前 言

本零件图册列出了【XN16 液压挖掘机】的主要零件。

1. 如何订购零件

订购零件时，请参照示例详细写明下列事项。

- 例：1) 设备型号 : XN16 (标于铭牌上)
- 2) 发动机系列号 : 3TNV70-SSY (标于发动机缸体上)
- 3) 零件号 : 1.11
- 4) 零件名称 : 回转接头
- 5) 数量 : 1

2. 怎样使用本零件图册

- 序号 : 标明零件图中的零件序号
- 零件号 : 由若干字母和数字组成，是图示零件的货号，也是在订货时要标明的特定代号，非常重要。
- 名称 : 零件名称。部分名称中含技术规格。
- 数量 : 表明图中所用的零件数量。在由组装零件和零件组构成的零件中，表示其组装件的件数。
- 备注 : 提供查找页数或说明。

FOREWORD

This parts list is shown the equipment components parts of [EXCAVATOR XN75-9].

1. HOW TO ORDER PARTS

When ordering parts , please specify the following items as shown in the following example.

- EX. 1) Model of machine : XN16 (Shown on name plate on the side cover)
2) Engine Serial No : 3TNV70-SSY (Shown on Engine cylinder block)
3) Part No. : 1.11
4) Part Name : Revolving joint
5) Q'TY : 1

2. HOW TO USE THIS PARTS LIST.

- Item : It shows the part number of the parts which are included in an parts drawing.
- Part No. : It is made up of several numbers and letters. It is the code used when ordering that part , and very important that there be no mistake in this code number when ordering.
- Part Name : It shows the name of part. Some of the part name contains technical specifications.
- Q'TY : It shows the numbers of the part in this drawing. If one part is included in the assembly and/or component , the quantity per such assembly and/or component is specified.
- REMARK : Description

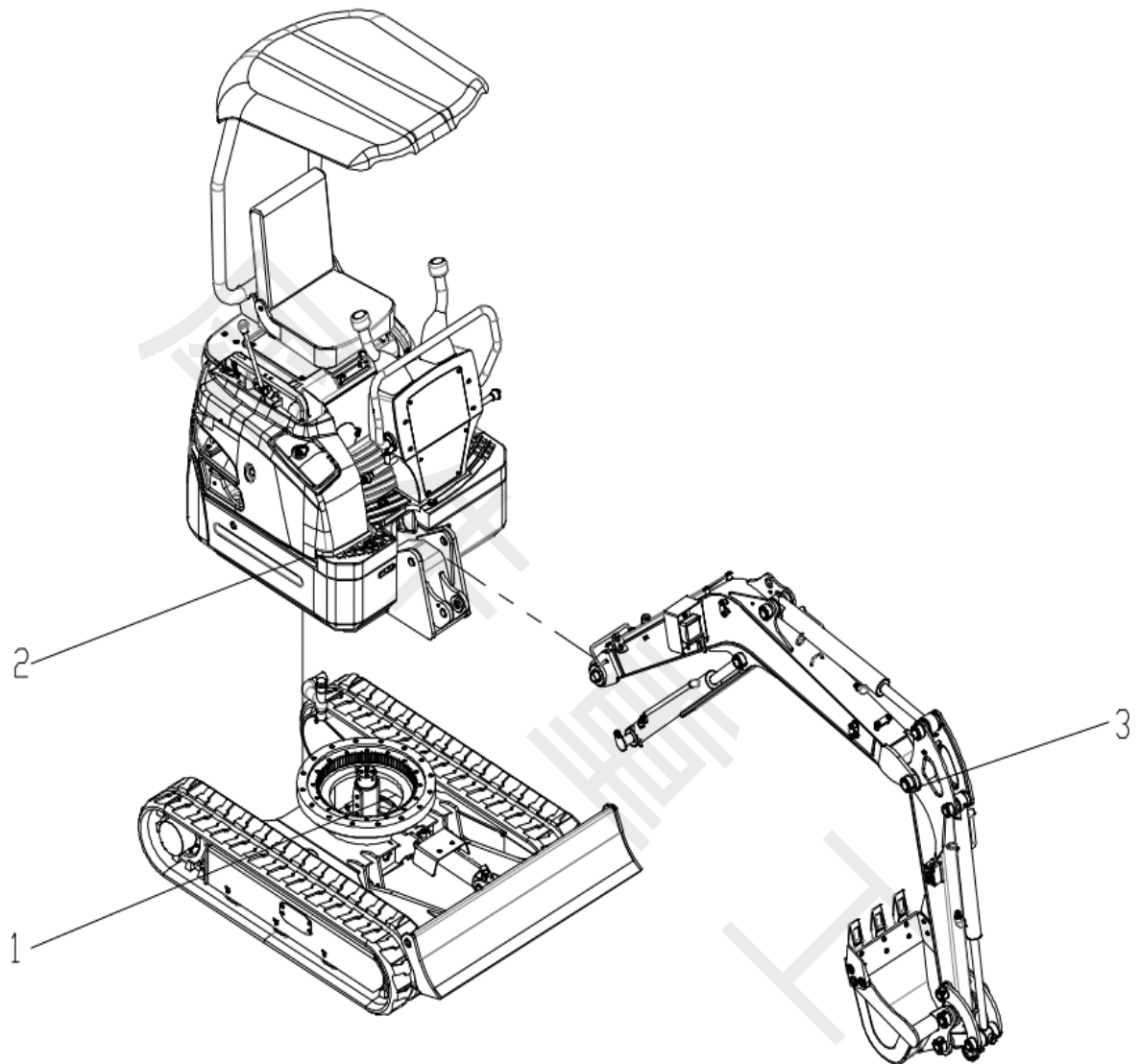
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MACHINE BODY 整机

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	1.0	Lower frame	下车架	1	
2	2.0	Swing body	回转体	1	
3	3.0	Front ASSY	前部装置	1	
1		XN16			1

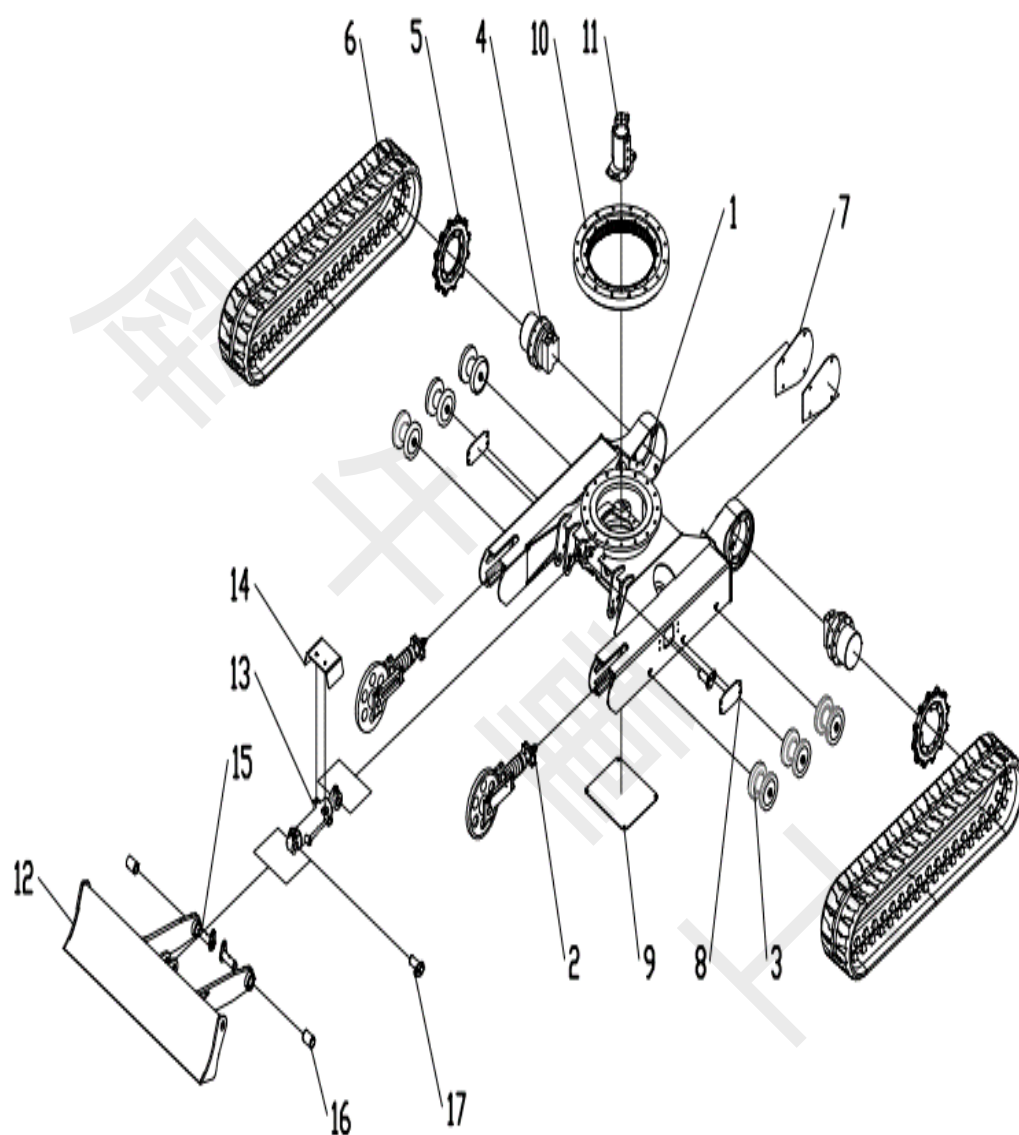
MACHINE BODY 整机



1.0 LOWER FRAME 下车架

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	1.1	Lower frame welding	下车架焊合	1	
2	1.2	Guide pulley	导向轮	2	
3	1.3	Thrust Wheel	支重轮	6	
4	1.4	Travel motor	行走马达	2	
5	1.5	Driving wheel	驱动轮	2	
6	1.6	Track chain Assy	履带总成	2	
7	1.7	The motor cover plate	马达盖板	2	
8	1.8	Cover plate	盖板	2	
9	1.9	Under the cover	下盖板	1	
10	1.10	Rotary support	回转支撑	1	
11	1.11	Swivel joint	回转接头	1	
12	1.12	Before the shovel	前铲	1	
13	1.13	Before the shovel cylinder	前铲油缸	1	
14	1.14	protective cover	防护罩	1	
15	1.15	Before the shovel shaft	前铲轴	2	
16	1.16	Steel bushing	钢套	2	
17	1.17	Front shovel oil cylinder shaft	前铲油缸轴	2	
3		XN16			3

1.0 LOWER FRAME 下车架



1.4 Travel motor 行走马达

25	O-RING	G105-B		1	G0105-B	A
24	SPRING			14	JMGC4009	B
23	BACK UP RING	G95용		1	GOBUR95	A
22	O-RING	G95-A		1	G095A	A
21	BACK UP RING	G90용		1	GOBUR90	A
20	O-RING	G90-A		1	G090A	A
19	PARKING PISTON			1	JMGC4008	B
18	PARKING PLATE			1	JMGC4007	B
17	FRICTION PLATE			1	JMGC4006	B
II-C-16	PISTON ASS'Y			7	JMGA1011	X
II-B-15	SET PLATE			1	JMGA1010	X
II-B-14	BALL GUIDE			1	JMGA1009	X
II-A-13	PIN	ø2.4x18L		3	JMGA1008	X
II-A-12	SNAP RING	ø28 (구멍용)		1	SR28CH	X
II-A-11	SPRING			1	JMGA1007	
II-A-10	SPRING SEAT			2	JMGA1006	X
II-A-9	CYLINDER BLOCK			1	JMGC4005	X
II-A	CYLINDER BLOCK KIT					C
II	ROTARY KIT					C
8	SWASH PLATE			1	JMGC4004	B
7	SWASH STEEL BALL	ø12		2	SB12	A
I-6	SWASH PISTON ASS'Y			1	JMGC4003	B
I	SWASH PISTON KIT					C
5	SHAFT			1	JMGC4002	A
4	BEARING	#16004		1	BB16004	B
3	OIL SEAL	AP 0997 E0		1	OSAP0997E0	A
2	PLUG	NPT 1/16		10	NPT116	A
1	SHAFT CASING			1	JMGC4001	B
번호 NO.	품명 PART NAME	규격 STANDARD	재질 MATERIAL	수량 Q'TY	비고 REMARK	RSP
일반공차 GEN.TOL	표면다듬질 SURF.TEXTURE		 도명  PTM-12/6-01-37 DWG.NAME  PTM-12/6-01-37 HYDRAULIC MOTOR & REDUCER ASSY			
각도공차 ANGLE TOL	제도 L.Y.W	검도 CHECK				
재질 MAT'L	설계 DESIGN	승인 APP'D	도면크기 도번 DWG.SIZE DWG.NO			
열처리 H.TREAT	날짜 DATE	2016. 04. 05				
표면처리 S.TREAT	척도 SCALE	N.S	단위 mm	종량 W'T	2 번째 OF 2 장중 SHEET	

1.4 Travel motor 行走马达

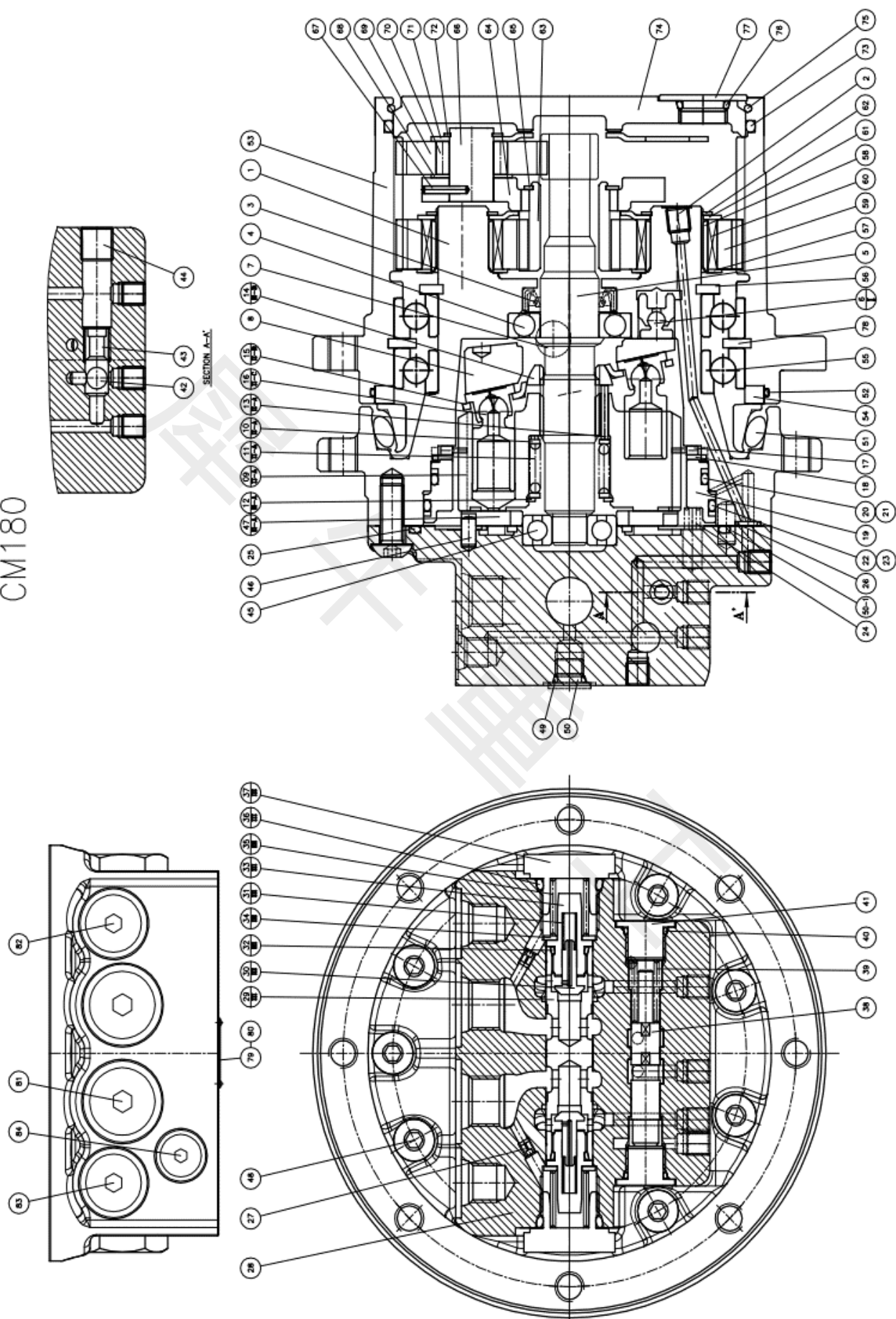
50-1	PIN	ø6x14L		2	P10000P3	B
50	PLUG	PF1/8		2	JTDG2008-16	B
49	O-RING	P8		2	PO 008	A
48	동근머리 BOLT	M8x20L		7	WBM0820	A
II-A-47	VALVE PLATE			1	JMGA1025	X
46	PIN	ø5x10L		1	JMGA1024	B
45	BALL BEARING	#6201		1	BB6201	A
44	PLUG	PT1/4		1	PT 1/4	A
43	CHECK SEAT			1	JMAA1030	B
42	STEEL BALL	9/32		1	SB932	A
41	PLUG			2	JMGA1023	B
40	O-RING	P12		2	PO 012	A
39	SPRING			1	JMGA1022	B
38	SPOOL			1	JMGA1021	B
III-37	PLUG			2	JMGA1020	B
III-36	O-RING	AS568-115		2	AO 115	A
III-35	SPRING			2	JMGA1019	B
III-34	SPRING SEAT			2	JMGA1018	X
III-33	PLUG			2	JMGA1017	B
III-32	O-RING	P10		2	PO 010	A
III-31	SPRING			2	JMGA1016	B
III-30	CHECK			2	JMGA1015	B
III-29	MAIN SPOOL			1	JMGA1014	X
III	MAIN SPOOL KIT					C
28	REAR COVER			1	JMGC4010	B
27	ORIFICE	ø0.5		2	JMGA1012	A
26	O-RING	P6		2	PO 006	A
번호 NO.	품명 PART NAME	규격 STANDARD	재질 MATERIAL	수량 Q'TY	비고 REMARK	RSP

1.4 Travel motor 行走马达

84	PLUG(플라스틱)	PF1/8		1	PP18	
83	PLUG(STEEL)	PF1/4		1	PP14	
82	PLUG(플라스틱)	PF1/4		1	PP14	
81	PLUG(플라스틱)	PF3/8		2	PP38	
80	RIVET			2	RVT175	B
79	NAME PLATE			1	JMGC4025	B
78	STOP RING			1	JMGC4026	B
77	PLUG			2	JMGA1042	B
76	O-RING	P14		2	PO 014	A
75	WIRE	ø2.5		1	JMGA1041	A
74	RING GEAR COVER			1	JMGA1040	A
73	O-RING	G120		1	GO 120	A
72	SNAP RING	C형 ø15(축용)		3	SR15CS	A
71	THRUST PLATE			1	JMGA1039	A
70	NEEDLE(B)	ø4.7x11		3x13	JMGA1038	A
69	PLANETARY GEAR(B)	Z:32		3	JMGA1037	B
68	WASHER(B)			3	JMGA1036	B
번호 NO.	품명 PART NAME	규격 STANDARD	재질 MATERIAL	수량 Q'TY	비고 REMARK	RSP
67	SPRING PIN	ø2.5x15L		3	SP2515	B
66	CARRIER PIN			3	JMGA1035	B
65	SNAP RING	C형 ø26(축용)		1	SR26CS	A
64	CARRIER			1	JMGA1034	A
63	SUN GEAR	Z:20		1	JMGA1033	A
62	SNAP RING	C형 ø18(축용)		4	SR18CS	A
61	PLATE			1	JMGC4024	B
60	NEEDLE(A)	ø3.2x16		4x23	JMGC4023	A
59	PLANETARY GEAR(A)	Z:27		4	JMGA1030	B
58	COLLAR			4	JMGC4022	A
57	WASHER(A)			4	JMGC4021	B
56	SNAP RING	C형 ø90(축용)		1	SR90CS	A
55	ANGULAR BAERING	ø90xø120x15		2	AC 90120	A
54	FLOATING SEAL GUIDE			1	JMGA1027	A
53	RING GEAR			1	JMGA1026	B
52	O-RING	AS568-050		1	AO 050	A
51	FLOATING SEAL			1	JS1120SCB	A
번호 NO.	품명 PART NAME	규격 STANDARD	재질 MATERIAL	수량 Q'TY	비고 REMARK	RSP

1.4 Travel motor 行走马达

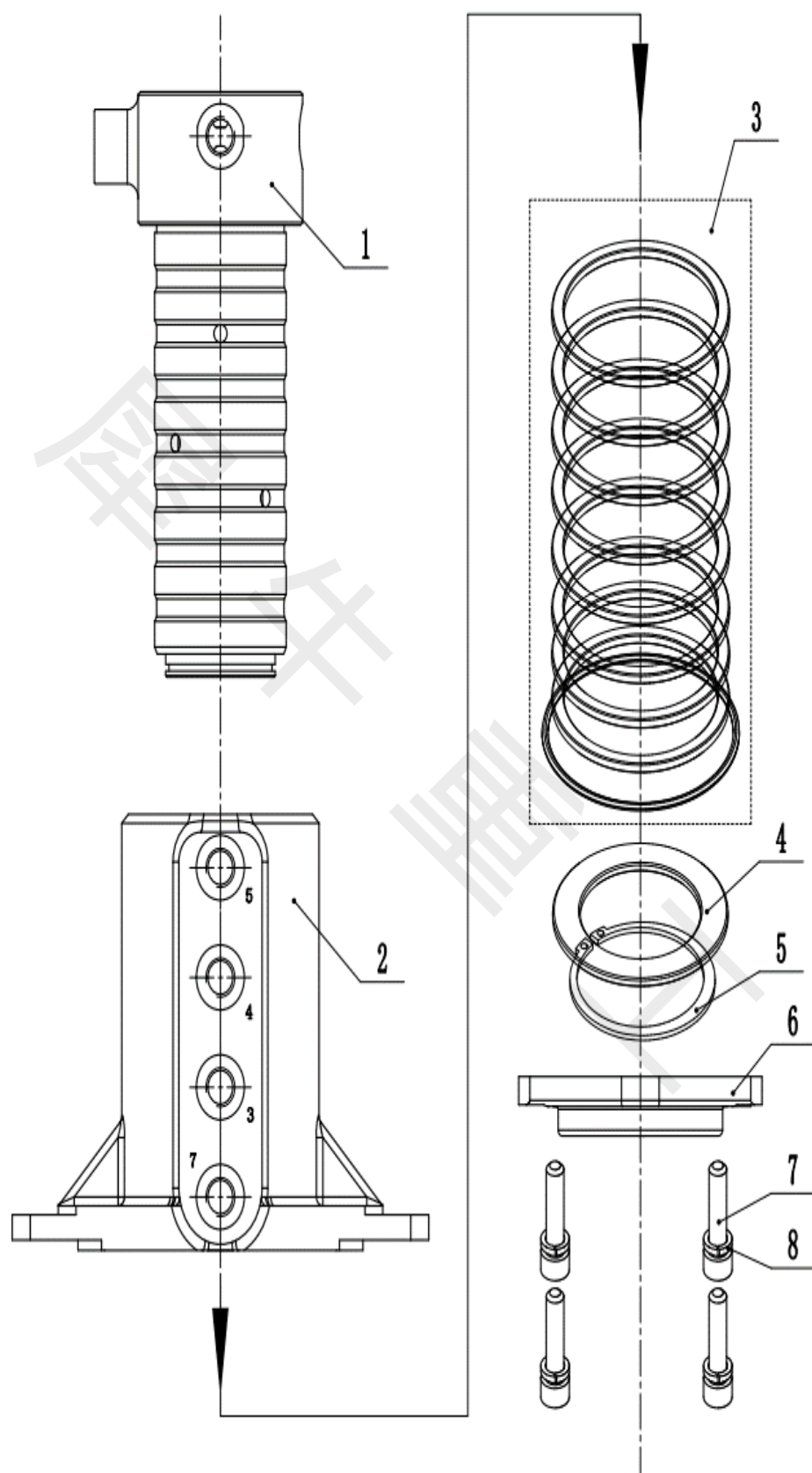
CM180



1.11 SWIVEL JOINT 回转接头

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	FSJ20080-000	Oil distribution shaft assembly	配油轴组件	1	
2	FSJ20080-000	solid of revolution	回转体	1	
3	FSJ20-31A-05	Kit-seal	密封件修理包	1	
4	FSJ20-31A-00	Retaining ring	挡圈	1	
5	GB/T894.0-50	Shaft clamp	轴用卡簧	1	
6	FSJ20080-0000-00003	End cover	端盖	1	
7	GB/T70.1-M8X	Inner Hexagon cylinder head screw	内六角圆柱头螺钉	4	
8	GB/T93-8	Spring washer	弹簧垫圈	4	

1.11 SWIVEL JOINT 回转接头



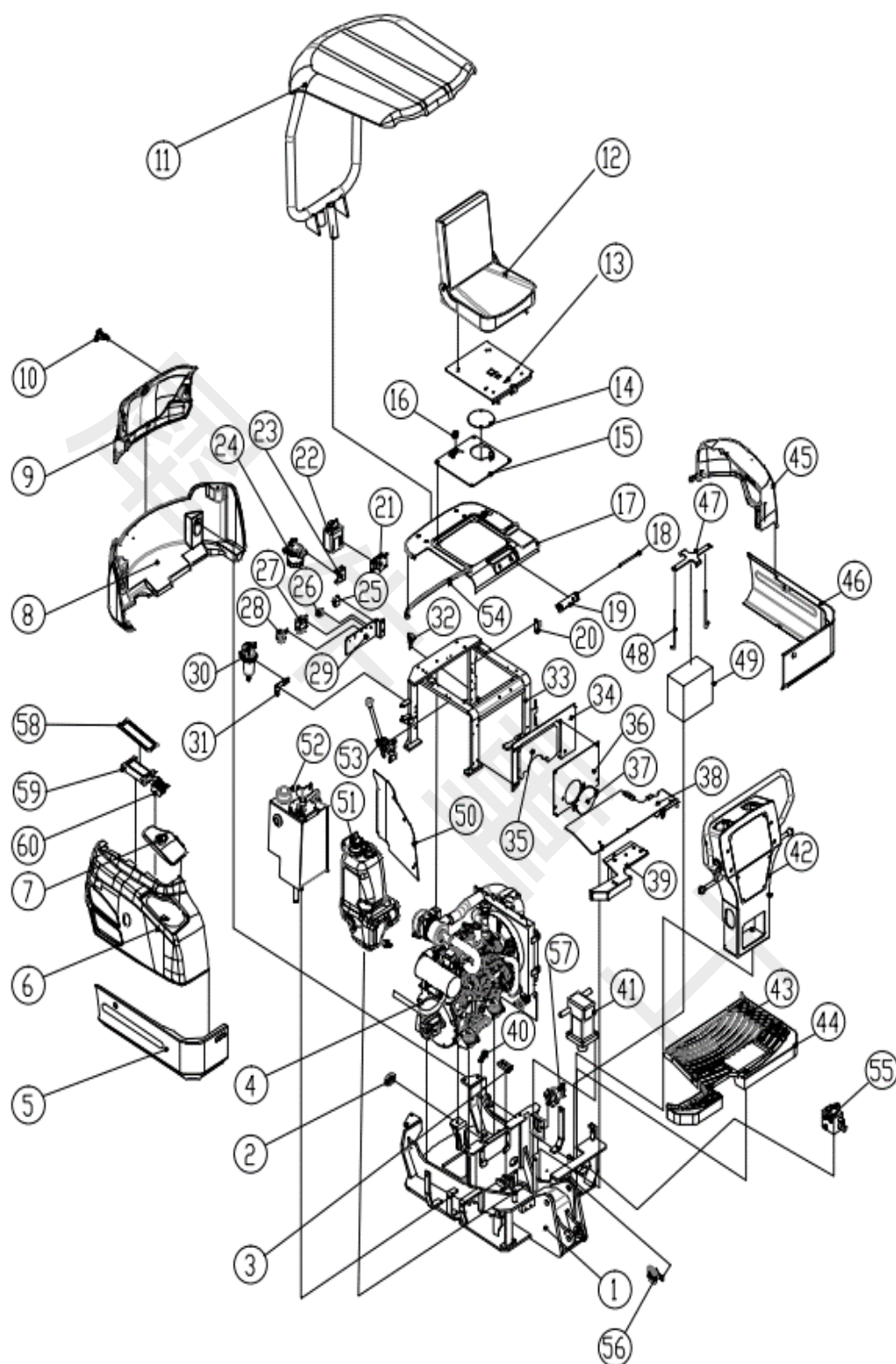
2.0 MAIN FRAME ASSY 上车架

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.1	Upper bracket welding	上支架焊接	1	
2	2.2	Rubber sheath	橡胶护套	1	
3	2.3	snap-gauge	卡板	1	
4	2.4	Engine assembly	发动机总成	1	
5	2.5	Covering parts	覆盖件	1	
6	2.6	Covering parts	覆盖件	1	
7	2.7	Tank top lock	油箱上盖锁	1	
8	2.8	weight	配重	1	
9	2.9	The back door	后门	1	
10	2.10	After the door lock	后门锁	1	
11	2.11	ceiling	顶棚	1	
12	2.12	The seat	座椅	1	
13	2.13	Seat adjuster	座椅调节板	1	
14	2.14	Cover plate	盖板	1	
15	2.15	Seat plate	座椅固定板	1	
16	2.16	Glue the pier	胶墩	2	
17	2.17	Seat plate	座椅连接板	1	
18	2.18	pin	销轴	1	
19	2.19	Pin board	销轴板	1	
20	2.20	The door lock after nasal	后门锁鼻	1	
21	2.21	Water bottle holder	溢水壶支架	1	
22	2.22	Excessive kettle	溢水壶	1	
23	2.23	Diesel filter holder	柴油滤芯支架	1	
24	2.24	Diesel fuel filter	柴油滤芯	1	
25	2.25	Wire harness	线束	1	
26	2.26	Wire harness	线束	1	
27	2.27	Wire harness	线束	1	
28	2.28	Wire harness	线束	1	
29	2.29	Wiring harness bracket	线束支架	1	
30	2.3	Oil-water separator	油水分离器	1	
31	2.31	Oil and water separator support.	油水分离器支架	1	
32	2.32	Hang the bridge	挂鼻架	1	
33	2.33	Seat stent	座椅支架	1	

2.0 MAIN FRAME ASSY 上车架

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
34	2.34	Cover plate	盖板	1	
35	2.35	Sound insulation cotton	隔音棉	1	
36	2.36	Cover plate	盖板	1	
37	2.37	Cover plate	盖板	1	
38	2.38	The pedals	脚踏板	1	
39	2.39	Right pedal	右踏板	1	
40	2.4	Water mouth	放水口	1	
41	2.41	Rotary motor	回转马达	1	
42	2.42	Operating cover	操作罩	1	
43	2.43	Foot pad	脚踏垫	1	
44	2.44	Foot pad	脚踏垫	1	
45	2.45	Covering parts	覆盖件	1	
46	2.46	Covering parts	覆盖件	1	
47	2.47	The battery holder	电瓶压板	1	
48	2.48	hook	挂钩	2	
49	2.49	he battery	电瓶	1	
50	2.5	Covering parts	覆盖件	1	
51	2.51	Diesel fuel tank assembly	柴油箱总成	1	
52	2.52	Hydraulic tank assembly	液压油箱总成	1	
53	2.53	The hand throttle	手油门	1	
54	2.54	Rubber strip	橡胶条	1	
55	2.55	Solenoid valve	电磁阀	1	
56	2.56	The horn	喇叭	1	
57	2.57	The battery switch	电瓶开关	1	
58	2.58	Instrument cover	仪表护套	1	
59	2.59	instrument	仪表	1	
60	2.6	switch	开关	1	

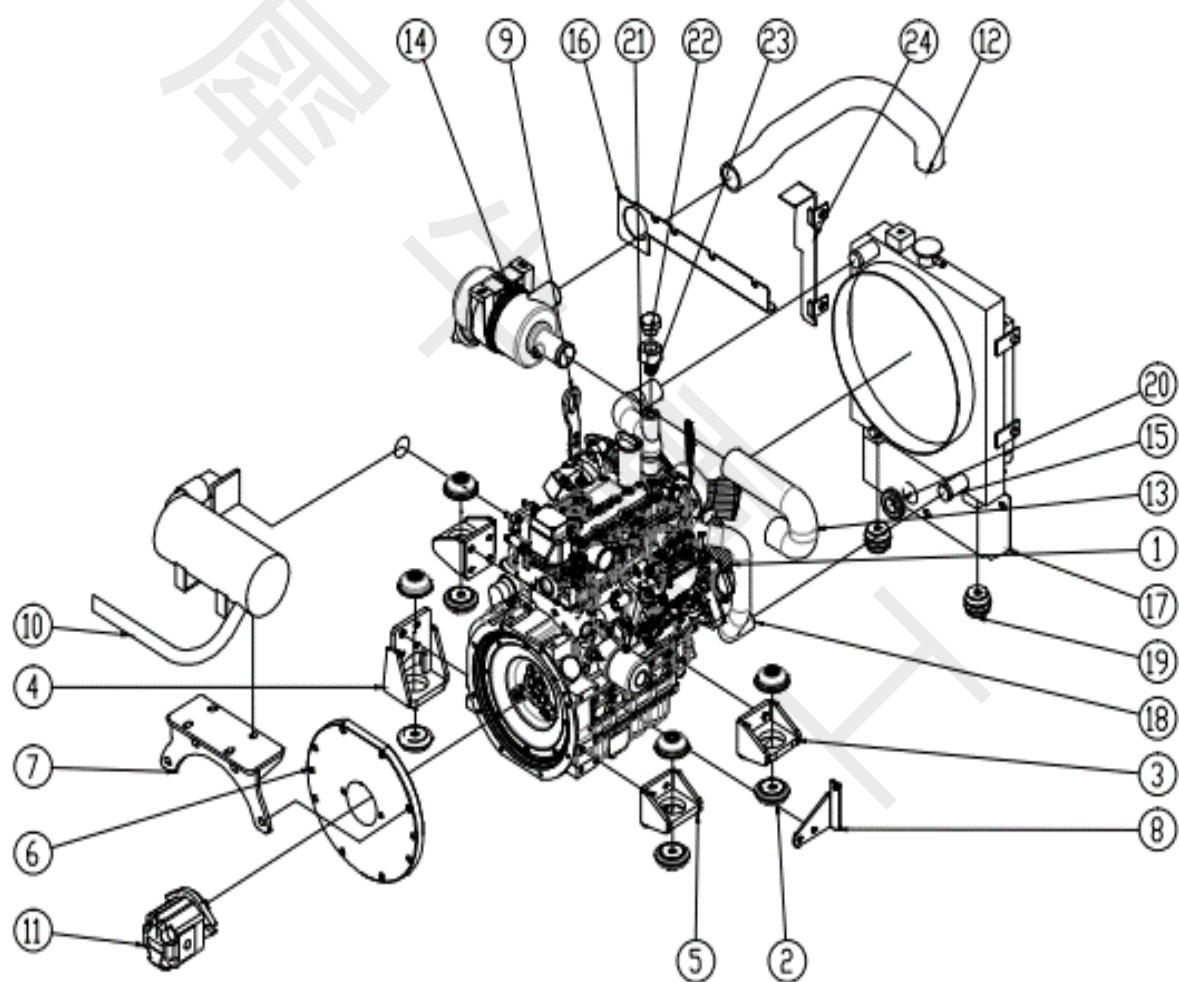
2.0 MAIN FRAME ASSY 上车架



2.4 ENGINE ASSY 发动机总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.4.1	The engine	发动机	1	
2	2.4.2	Engine block	发动机胶墩	4	
3	2.4.3	Engine front legs.	发动机前机器腿	2	
4	2.4.4	Engine left rear machine leg.	发动机左后机器腿	1	
5	2.4.5	Engine right rear machine leg.	发动机右后机器腿	1	
6	2.4.6	pump disc	泵盘	1	
7	2.4.7	Silencer support	消音器支架	1	
8	2.4.8	Oil gate bracket.	油门线支架	1	
9	2.4.9	Hoisting ring	吊装环	1	
10	2.4.10	silencer	消音器	1	
11	2.4.11	The main pump	主泵	1	
12	2.4.12	A empty filter tubes	空滤管A	1	
13	2.4.13	B empty filter tubes	空滤管B	1	
14	2.4.14	Air filter.	空气滤清器	1	
15	2.4.15	The radiator	散热器	1	
16	2.4.16	Every wind on board	上隔风板	1	
17	2.4.17	Under the wind plate	下隔风板	1	
18	2.4.18	water inlet	进水管	1	
19	2.4.19	Radiator rubber block	散热器胶墩	2	
20	2.4.20	sheath	护套	1	
21	2.4.21	The water breaks down the pipe -1	水散出水管-1	1	
22	2.4.22	The water breaks down the pipe -3	水散出水管-3	1	
23	2.4.23	The water breaks down the pipe -2	水散出水管-2	1	
24	2.4.24	Left every wind plate	左隔风板	1	

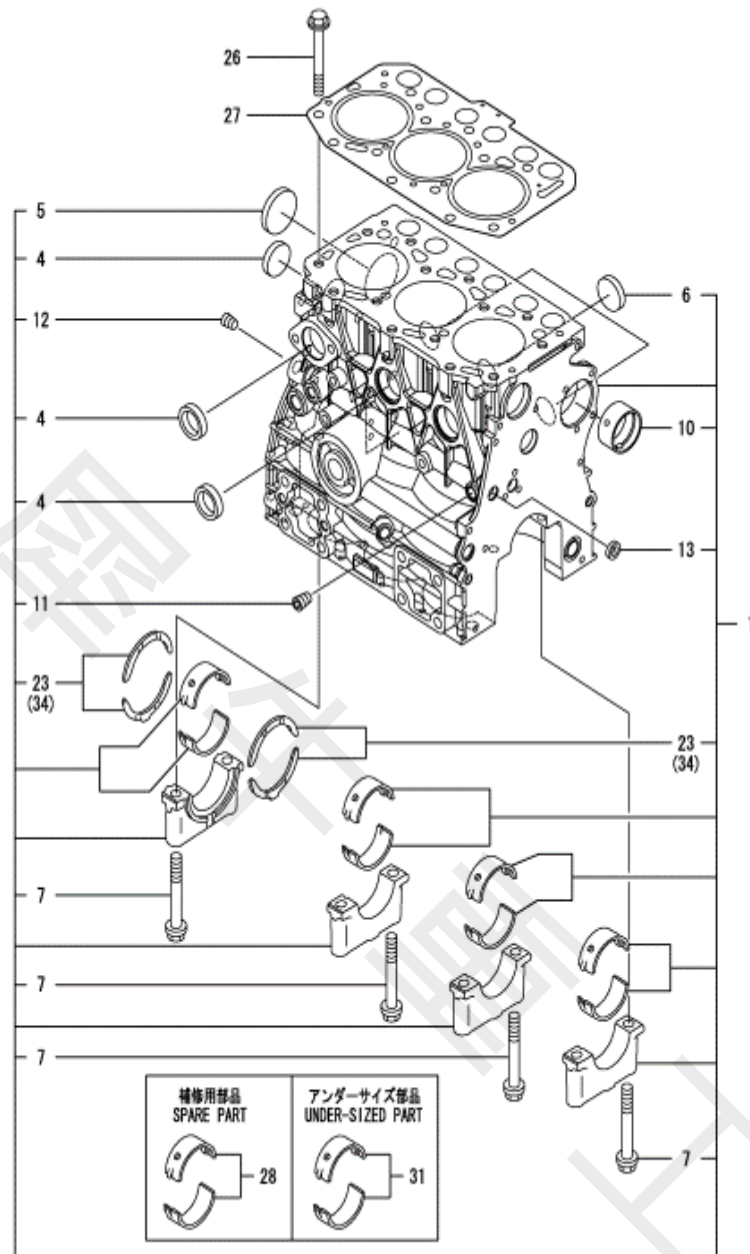
2.4 ENGINE ASSY 发动机总成



2.4.1 The engine 发动机 (3TNV70-SSY)

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.4.1.1	CYLINDER BLOCK			
2	2.4.1.2	GEAR HOUDING			
3	2.4.1.3	FLYWHEEL HOUSING & OLI SUMP			
4	2.4.1.4	CYLINDER HEAD & BONNET			
5	2.4.1.5	EXHAUST MANIFOLD			
6	2.4.1.6	CAMSHAFT & DRIVING GEAR			
7	2.4.1.7	CRANKSHAFT & PISTON			
8	2.4.1.8	LUB.OIL SYSTEM			
9	2.4.1.9	COOLING WATER SYSTEM			
10	2.4.1.10	FUEL INJECTION PUMP			
11	2.4.1.11	GOVERNOR			
12	2.4.1.12	FUEL INJECTION VALVE			
13	2.4.1.13	FUEL PIPE			
14	2.4.1.14	STARTER MOTOR			
15	2.4.1.15	GENERATOR			

2.4.1 .1 CYLINDER BLOCK



(A) 3TNV70-SSY

(B) 3

(C) 3

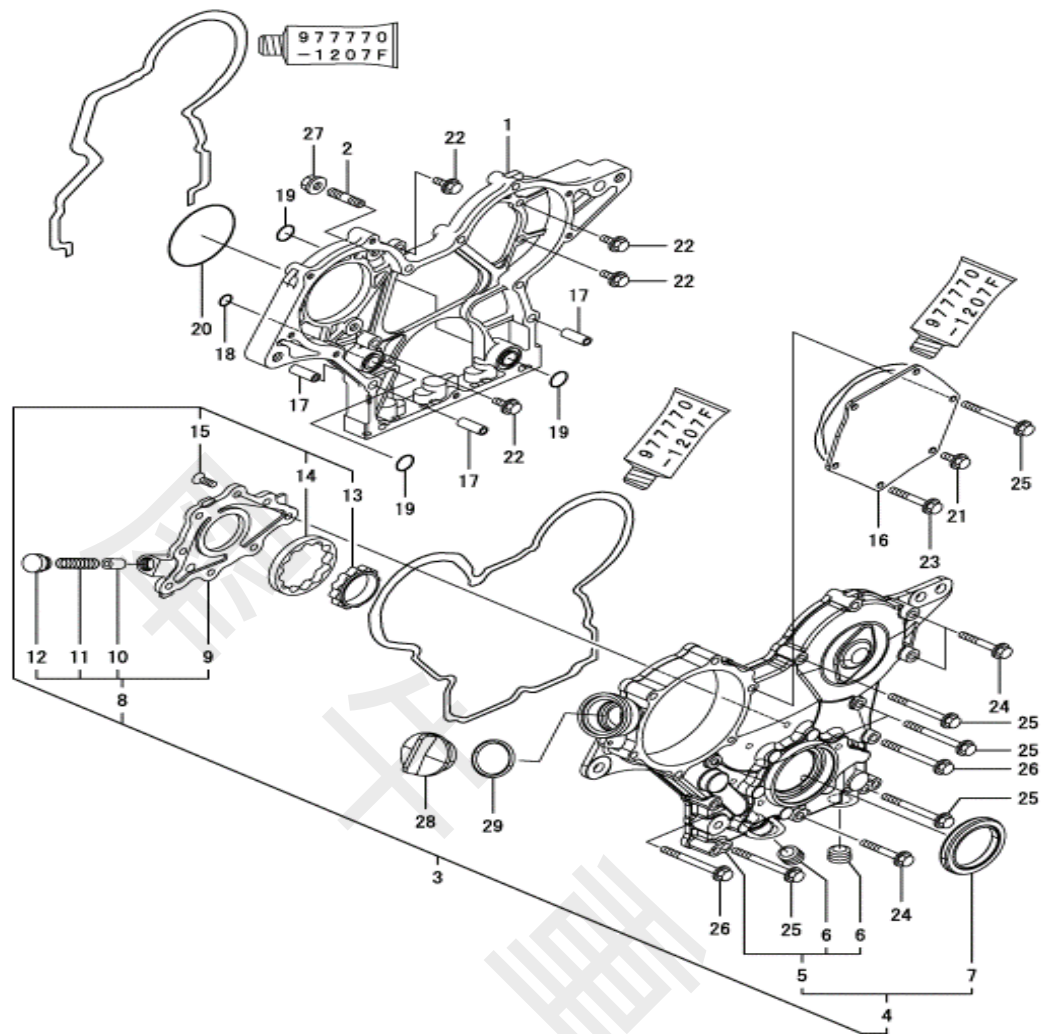
(D) 3

(E) 3

(F) 3

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719515-01560	BLOCK ASSY, CYLINDER	1							
4	2	105311-01090	PLUG, 30	4							
5	2	119623-01250	PLUG, 45	1							
6	2	119285-01990	PLUG, 25	3							
7	2	119620-02020	BOLT, METAL CAP	8							
10	2	119717-02411	BUSH, CAMSHAFT	1							
11	2	124060-01050	PLUG, PT1/8	1							
12	2	124160-01910	PLUG, PT1/4	1							
13	2	27241-120000	PLUG, 12	1							
23	2	119717-02930	BEARING, THRUST	2							
26	1	119515-01200	BOLT, HEAD	14							
27	1	119515-01331	GASKET, HEAD	1							
28	1	719717-02901	BEARING, MAIN	4							1
31	1	719717-02911	BEARING, 0.25 US	4							2
34	1	119810-02941	BEARING, THRUST 0.25	2							3

2.4 .1.2 GEAR HOUSING



(A) 3TNV70-SSY

(B) 3

(C) 1

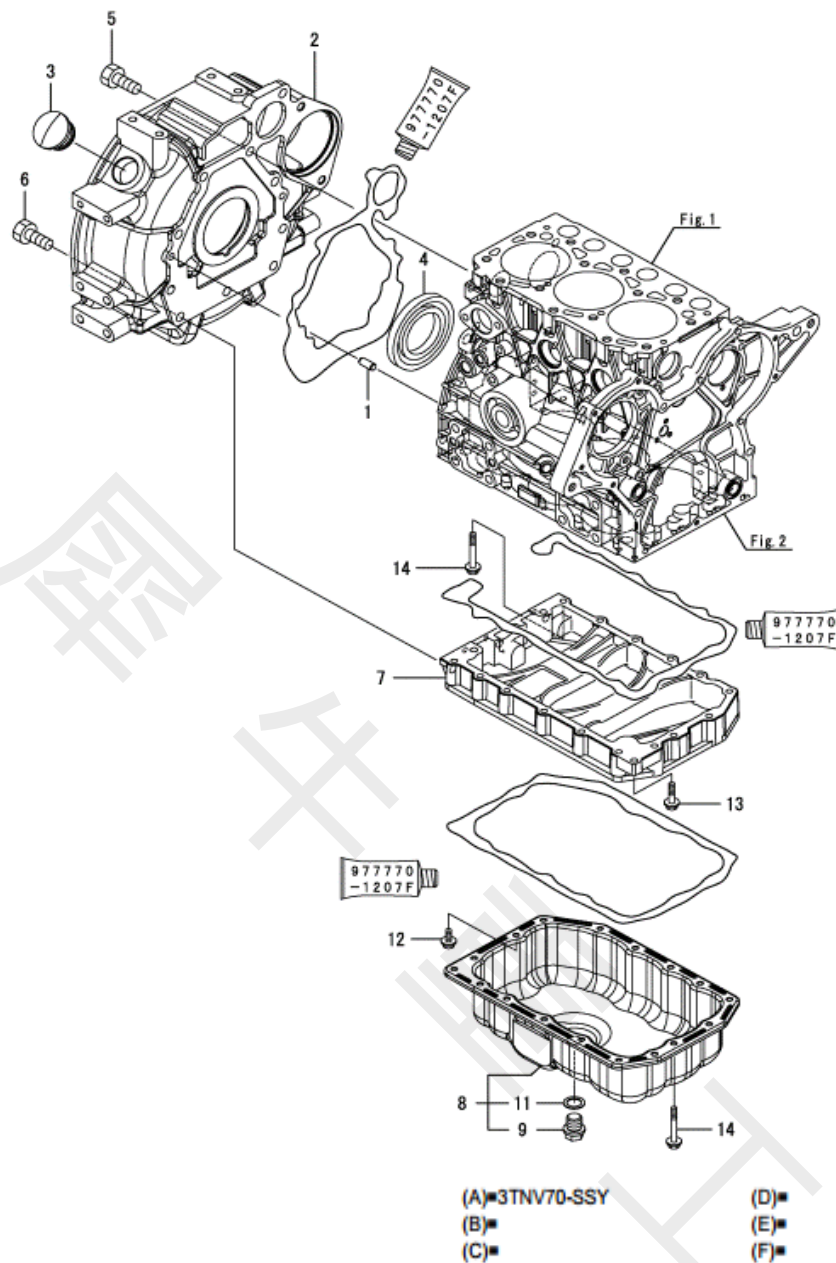
(D) 1

(E) 1

(F) 1

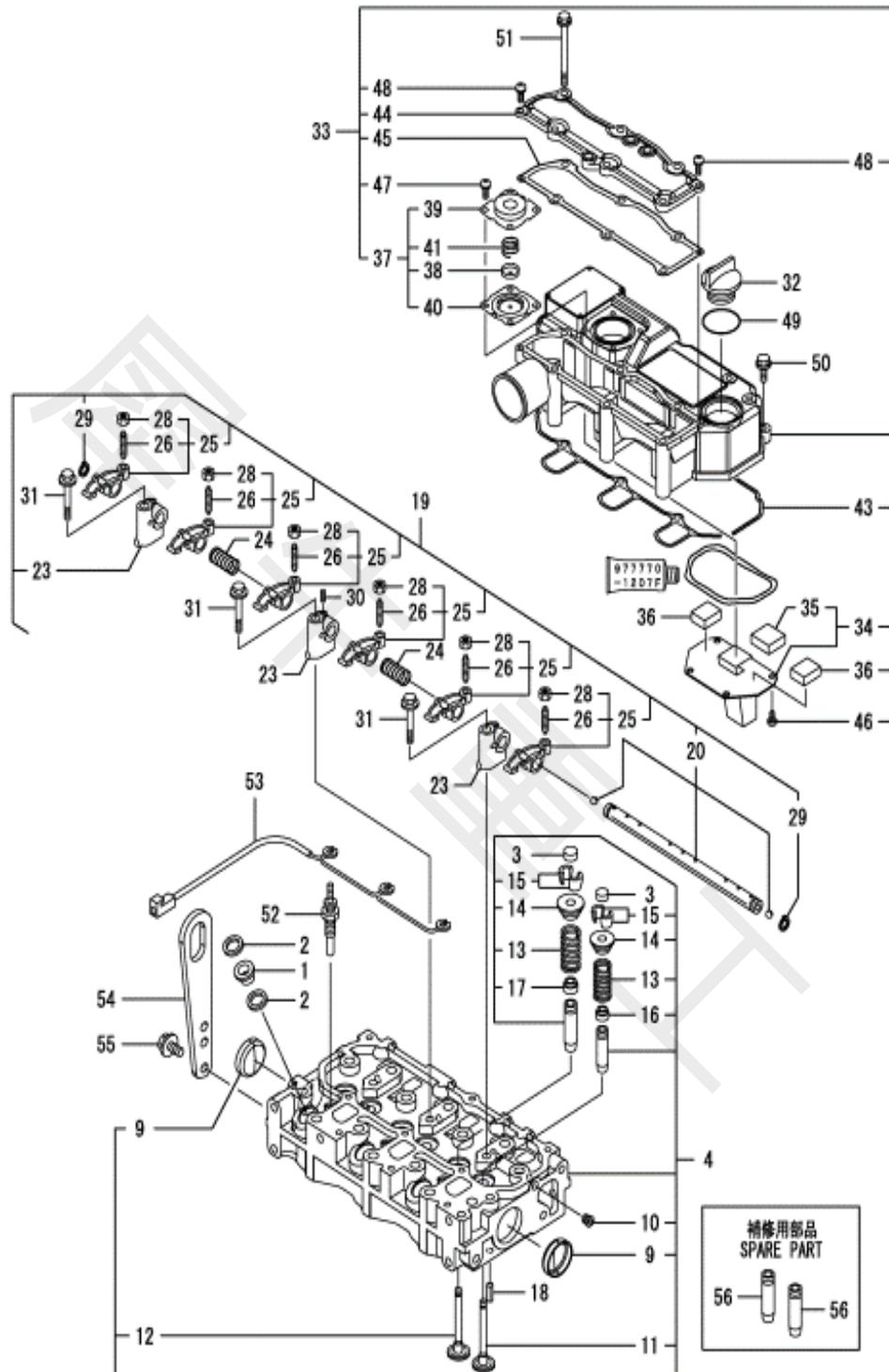
No.	Lev.	Parts No.	Description	(A)	(B)	(C)	(D)	(E)	(F)	I	R
1	1	119717-01501	CASE, GEAR	1							
2	1	119717-01570	STUD	3							
3	1	119734-01590	COVER ASSY, GEAR CASE	1							
4	2	719734-01500	COVER ASSY, GEAR CASE	1							
5	3	119717-01521	COVER, GEAR CASE	1							
6	4	23876-030000	PLUG, R03	2							
7	3	119717-01800	SEAL, OIL	1							
8	2	119717-32100	COVER ASSY	1							
9	3	119717-32080	COVER	1							
10	3	129900-32130	VALVE, RELIEF	1							
11	3	129001-32320	SPRING	1							
12	3	129001-32330	PLUG	1							
13	2	119717-32110	ROTOR, INNER	1							
14	2	119717-32120	ROTOR, OUTER	1							
15	2	119802-32130	SCREW, M6X16	8							
16	1	119717-01750	COVER	1							
17	1	119660-01911	PIPE, KNOCK	4							
18	1	119624-32040	O-RING, P12.0	1							
19	1	119717-32050	O-RING, P17.0	3							
20	1	121850-51960	O-RING	1							
21	1	26106-060122	BOLT, M6X 12 PLATED	1							
22	1	26106-060162	BOLT, M6X 16 PLATED	4							
23	1	26106-060402	BOLT, M6X 40 PLATED	4							
24	1	26106-060402	BOLT, M6X 40 PLATED	3							
25	1	26106-060602	BOLT, M6X 60 PLATED	7							
26	1	26106-060652	BOLT, M6X 65 PLATED	2							
27	1	26306-080002	NUT, M8	3							
28	1	124160-01751	COVER, FILLER	1							
29	1	24311-000320	O-RING, 1AP32.0	1							

2.4 .1.3 FLYWHEEL HOUSING & OIL SUMP



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129100-01580	PIN, 8X16	2							
2	1	119515-01601	HOUSING, FLYWHEEL	1							
3	1	119620-01750	CAP	1							
4	1	119734-02220	SEAL, OIL	1							
5	1	26206-100252	BOLT, M10X 25 PLATED	7							
6	1	26206-100302	BOLT, M10X 30 PLATED	3							
7	1	119515-01720	SPACER, OIL SUMP	1							
8	1	119540-01770	SUMP ASSY, OIL	1							
9	2	105425-01690	PLUG, 16	1							
11	2	22190-160002	WASHER, SEAL 16	1							
12	1	26106-060122	BOLT, M6X 12 PLATED	1							
13	1	26106-060252	BOLT, M6X 25 PLATED	1							
14	1	26106-060452	BOLT, M6X 45 PLATED	17							

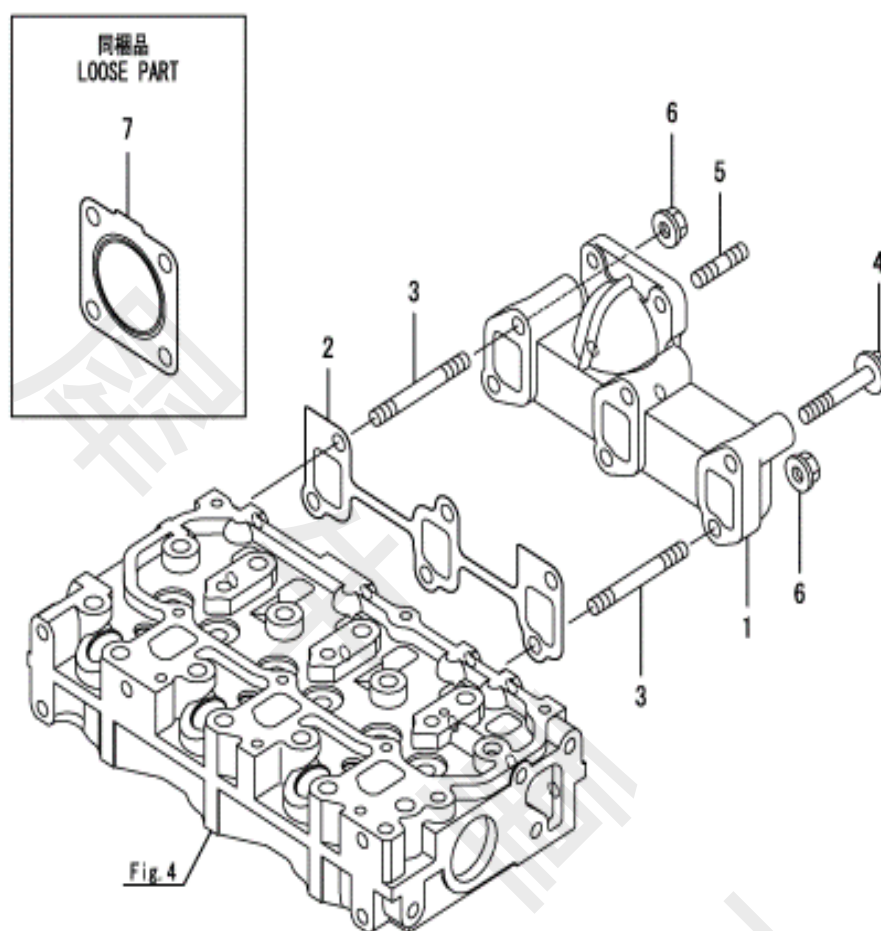
2.4 .1.4 CYLINDER HEAD & BONNET



2.4 .1.4 CYLINDER HEAD & BONNET

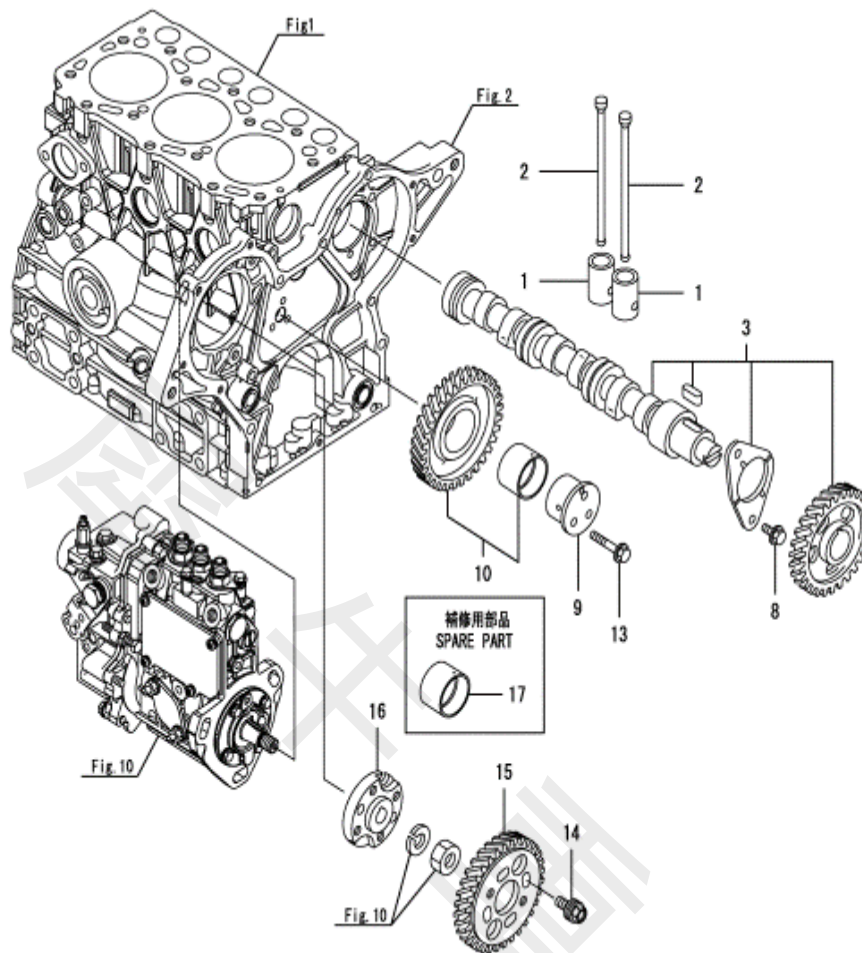
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129901-11450	PROTECTOR, NOZZLE	3							
2	1	119600-11460	GASKET, NOZZLE	6							
3	1	105010-11490	CAP, VALVE	6							
4	1	119515-11740	HEAD ASSY, CYLINDER	1							
9	2	119285-11990	PLUG, 35	2							
10	2	23876-005000	PLUG, R005	1							
11	2	119515-11101	VALVE, INTAKE	3							
12	2	119515-11110	VALVE, EXHAUST	3							
13	2	119717-11131	SPRING, VALVE	6							
14	2	129508-11180	RETAINER, SPRING	6							
15	2	119717-11190	COTTER	12							
16	2	119717-11340	SEAL, VALVE STEM	3							
17	2	119717-11350	SEAL, VALVE STEM	3							
18	1	22351-060012	PIN, SPRING 6.0X12	2							
19	1	119515-11200	SUPPORT ASSY, ARM	1							
20	2	119515-11240	SHAFT ASSY, ROCKER	1							
23	2	119717-11260	SUPPORT, ROCKER ARM	3							
24	2	119515-11280	SPRING	2							
25	2	119717-11650	ARM, ROCKER	6							
26	3	129150-11230	SCREW, VALVE ADJUST	6							
28	3	129150-11750	NUT, M8	6							
29	2	22242-000120	RING, 12	2							
30	2	26979-050162	SCREW, M5X16	1							
31	1	26106-080402	BOLT, M8X 40 PLATED	3							
32	1	124160-01751	COVER, FILLER	1							
33	1	119515-11380	BONNET ASSY, HEAD	1							
34	2	119717-03031	PLATE	1							
35	3	119717-03070	BAFFLE, BREATHER	1							
36	2	119717-03070	BAFFLE, BREATHER	2							
37	2	119802-03100	DIAPHRAGM ASSY	1							
38	3	119802-03110	PLATE	1							
39	3	119802-03121	COVER, DIAPHRAGM	1							
40	3	119802-03131	DIAPHRAGM	1							
41	3	119802-03141	SPRING, DIAPHRAGM	1							
43	2	119515-11310	GASKET, BONNET	1							
44	2	119515-11320	COVER, BONNET	1							
45	2	119515-11330	GASKET	1							
46	2	22857-500100	SCREW, 5X10	4							
47	2	22857-500100	SCREW, 5X10	4							
48	2	22857-500160	SCREW, 5X16	2							
49	1	24311-000320	O-RING, 1AP32.0	1							
50	1	26106-060202	BOLT, M6X 20 PLATED	3							
51	1	26106-060752	BOLT, M6X 75 PLATED	6							
52	1	119717-77801	PLUG, GLOW	3							
53	1	119717-77820	CONNECTOR, GLOW PLUG	1							
54	1	129900-07900	LIFTER	1							
55	1	26106-080162	BOLT, M8X 16 PLATED	2							
56	1	119515-11800	GUIDE, VALVE	6							1

2.4 .1.5 EXHAUST MANIFOLD



No.	Lev.	Parts No.	Description	(A) 3TNV70-SSY						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119718-13100	MANIFOLD, EXHAUST	1							
2	1	119717-13110	GASKET	1							
3	1	119717-13600	STUD, M8X50	2							
4	1	119802-13620	BOLT, M8X50	4							
5	1	119131-18320	STUD, M8X22	4							
6	1	26306-080002	NUT, M8	2							
7	1	119515-13200	GASKET, SILENCER	1							

2.4 .1.6 CAMSHAFT & DRIVING GEAR

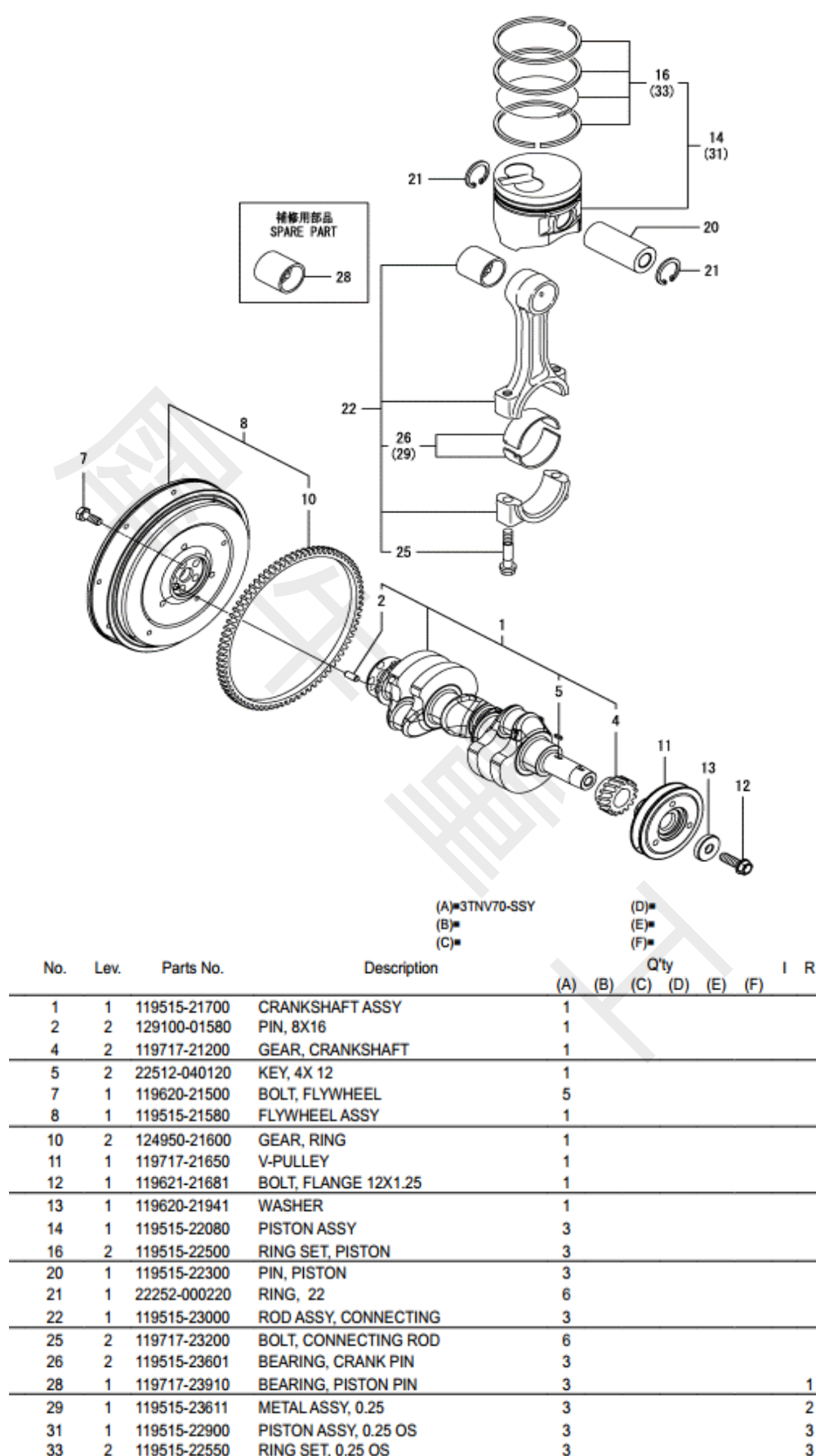


(A) 3TNV70-SSY
(B) ■
(C) ■

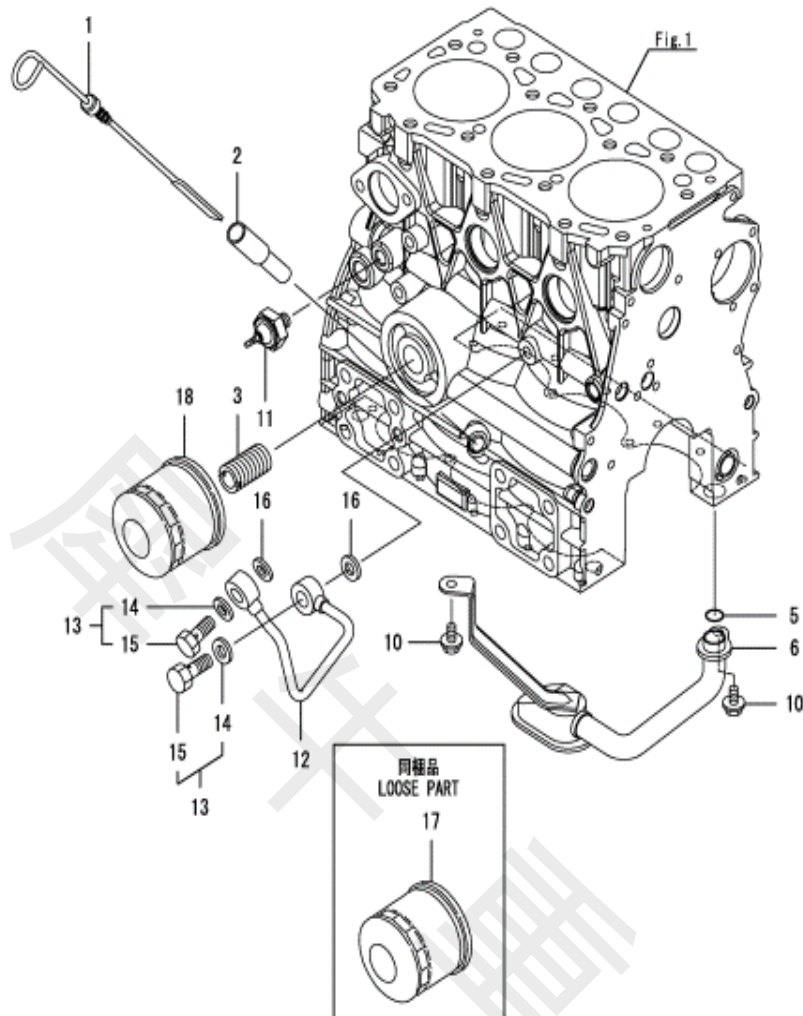
(D) ■
(E) ■
(F) ■

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119620-14200	TAPPET	6							
2	1	119515-14400	ROD, PUSH	6							
3	1	119515-14581	CAMSHAFT ASSY	1							
8	1	26106-060122	BOLT, M6X 12 PLATED	2							
9	1	119717-25050	SHAFT, IDLE	1							
10	1	119717-25101	GEAR ASSY, IDLE	1							
13	1	26106-060352	BOLT, M6X 35 PLATED	3							
14	1	129150-25301	BOLT	4							
15	1	119717-25930	GEAR, PUMP	1							
16	1	119717-51150	FLANGE	1							
17	1	119717-25911	BUSH, IDLE GEAR	1							1

2.4 .1.7 CRANKSHAFT & PISTON

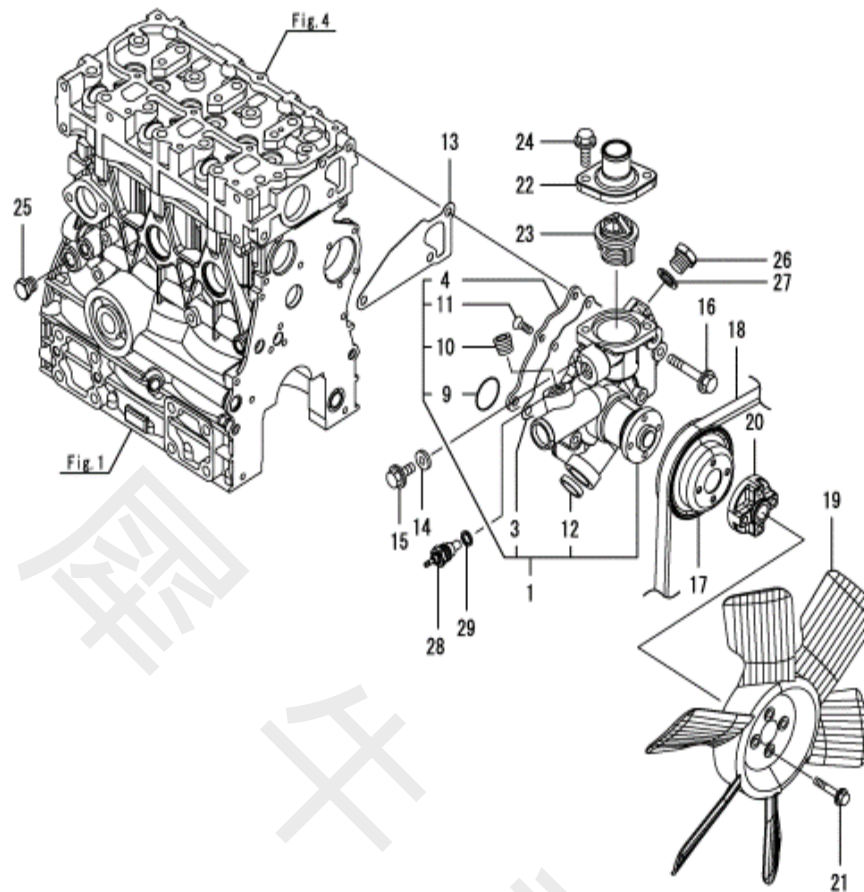


2.4 .1.8 LUB.OIL SYSTEM



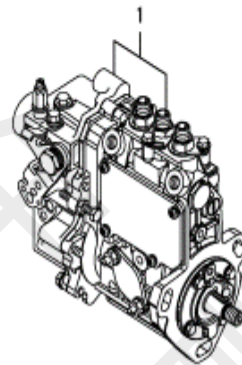
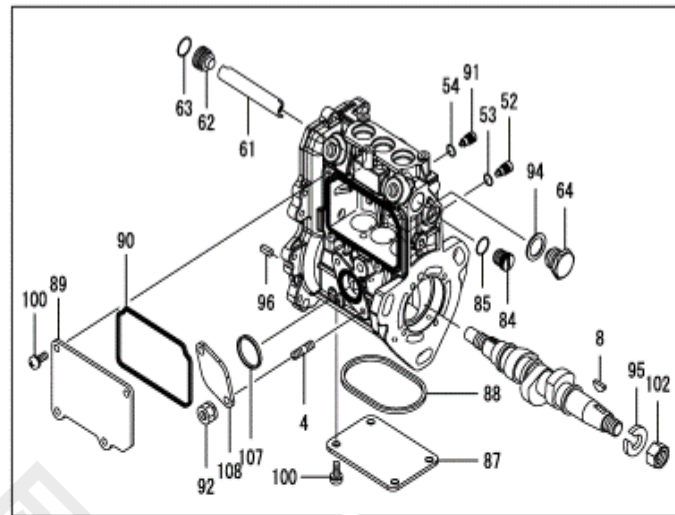
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119515-34801	DIPSTICK, OIL	1							
2	1	121520-34810	GUIDE, DIPSTICK	1							
3	1	119717-35140	BOLT	1							
5	1	119717-32060	O-RING, P15.0	1							
6	1	119515-35080	PIPE ASSY, OIL INLET	1							
10	1	26106-060102	BOLT, M6X 10 PLATED	2							
11	1	114250-39450	SWITCH, 0.5KG	1							
12	1	119717-39210	PIPE, OIL	1							
13	1	129005-59830	BOLT ASSY, JOINT M8	2							
14	2	22190-080002	WASHER, SEAL 8	2							
15	2	23857-030000	BOLT, JOINT 3	2							
16	1	22190-080002	WASHER, SEAL 8	2							
17	1	119305-35151	FILTER ASSY, D68XL65	1							
18	1	119305-35151	FILTER ASSY, D68XL65	1							1

2.4 .1.9 COOLING WATER SYSTEM



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119C10-42000	PUMP ASSY, WATER	1							
3	2	119717-42031	GASKET	1							
4	2	119515-42041	COVER	1							
9	2	119C10-42320	O-RING, 2028	1							
10	2	129916-49740	PLUG, R03	1							
11	2	26577-060122	SCREW, M6X12	4							
12	2	27241-250000	PLUG, 25	1							
13	1	119515-42020	GASKET, WATER PUMP	1							
14	1	23414-080000	GASKET, 8X1.0	1							
15	1	26106-080122	BOLT, M8X 12 PLATED	1							
16	1	26106-080502	BOLT, M8X 50 PLATED	3							
17	1	119717-42350	V-PULLEY, D=100	1							
18	1	119740-42370	V-BELT, A35.5	1							
19	1	119653-44740	FAN, COOLING D=320	1							
20	1	121267-44760	SPACER	1							
21	1	26106-060352	BOLT, M6X 35 PLATED	4							
22	1	129350-49530	COVER, THERMOSTAT	1							
23	1	119717-49800	THERMOSTAT, 71	1							
24	1	26106-080202	BOLT, M8X 20 PLATED	2							
25	1	171056-49120	PLUG, DRAIN	1							
26	1	121450-42450	PLUG, M16	1							
27	1	124465-44950	GASKET, 16	1							
28	1	124250-49351	SENSOR	1							
29	1	129150-49360	GASKET	1							

2.4 .1.10 FUEL INJECTION PUMP

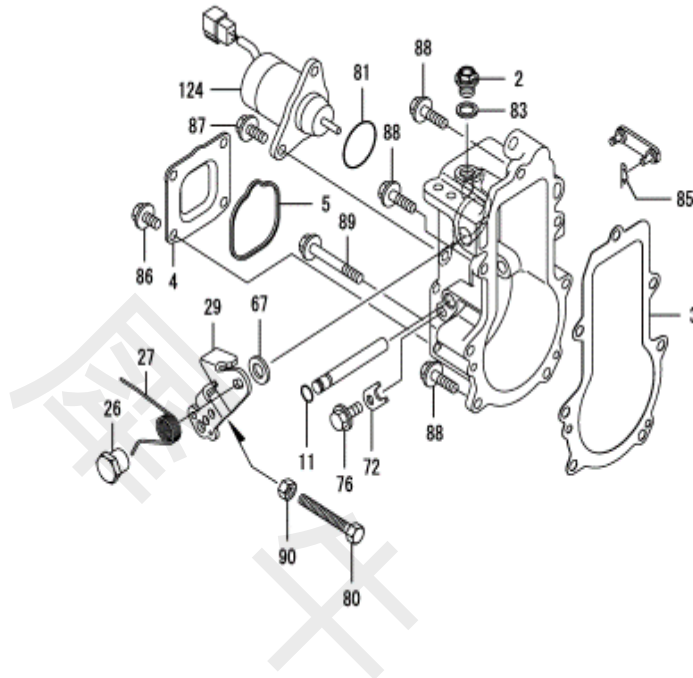


(A) 3TNV70-SSY
(B) ■
(C) ■

(D) ■
(E) ■
(F) ■

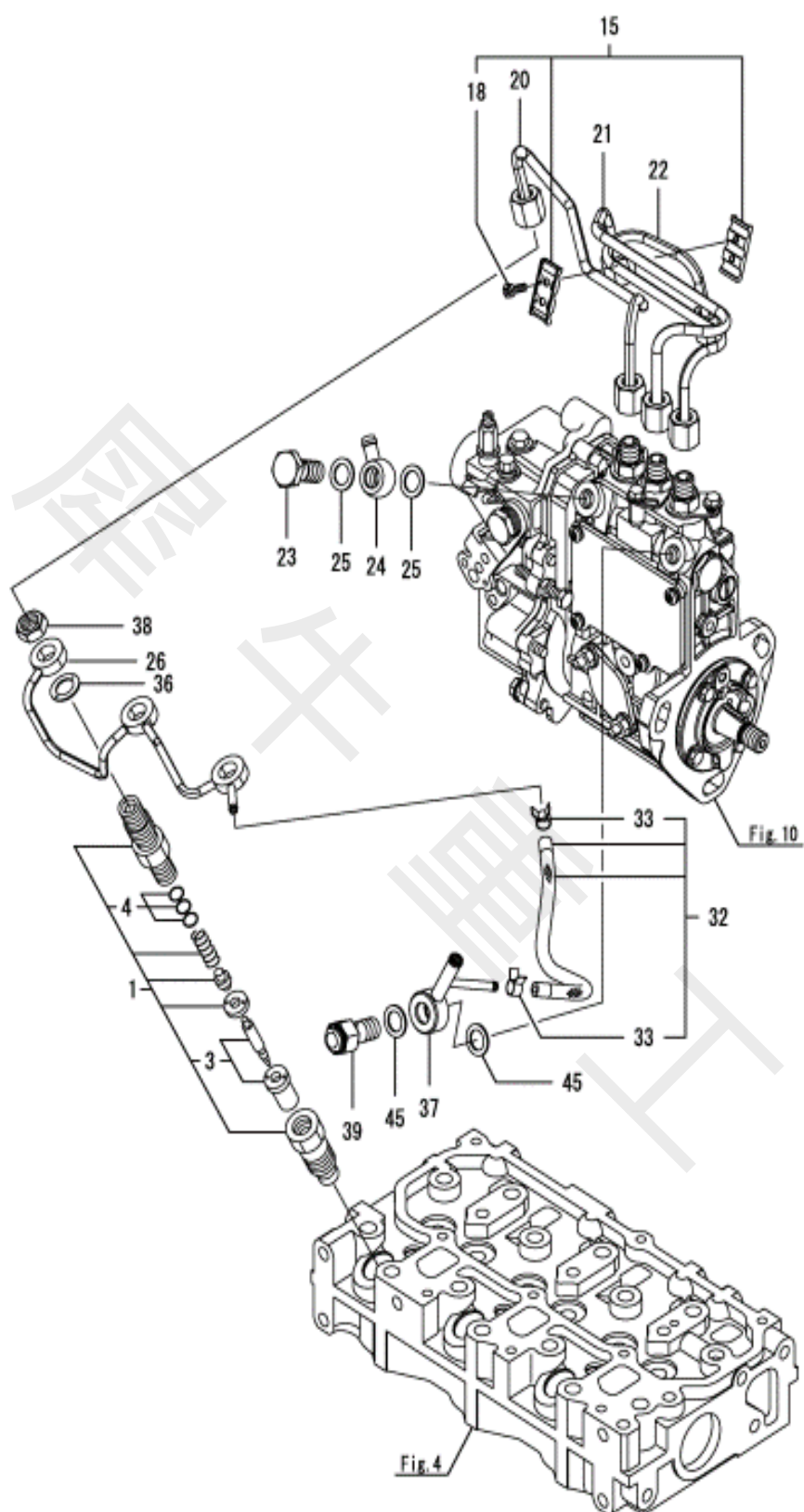
No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	719541-51300	FIE ASSY	1							1
4	2	129155-51020	STUD	2							
8	2	122710-51090	KEY	1							
52	2	158600-51270	STOPPER, TAPPET	3							
53	2	129155-51280	O-RING, S6	3							
54	2	129155-51280	O-RING, S6	1							
61	2	129155-51400	DEFLECTOR	1							
62	2	158600-51410	PLUG, DEFLECTOR	1							
63	2	119717-51420	O-RING	1							
64	2	158600-51420	PLUG, DEFLECTOR	1							
84	2	158600-51570	PLUG	1							
85	2	129155-51580	O-RING	1							
87	2	129155-51701	COVER	1							
88	2	119717-51711	GASKET	1							
89	2	119717-51750	COVER	1							
90	2	119717-51761	GASKET	1							
91	2	158600-51790	STOOPER, RACK	1							
92	2	119717-51860	NUT, M6	2							
94	2	22190-160002	WASHER, SEAL 16	1							
95	2	22217-120000	WASHER, SPRING 12	1							
96	2	22351-050010	PIN, SPRING 5.0X10	2							
100	2	26022-050122	SCREW, M5X12	8							
102	2	26716-120002	NUT, M12	1							
107	2	129155-52051	GASKET	1							
108	2	129100-52200	COVER	1							

2.4 .1.11 GOVERNOR



No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
2	2	119717-51930	PLUG,M10	1							
3	2	119717-61050	GASKET	1							
4	2	119717-61060	COVER, GOVERNOR CASE	1							
5	2	119717-61070	GASKET	1							
11	2	129155-51280	O-RING, S6	1							
26	2	129255-61410	NUT, LOCK	1							
27	2	119534-61420	SPRING	1							
29	2	119515-61440	LEVER, CONTROL	1							
67	2	158552-61700	SHIM SET	1							
72	2	119660-61901	RETAINER, SHAFT	1							
76	2	26106-060102	BOLT, M6X 10 PLATED	1							
80	2	129155-61460	BOLT, IDLE	1							
81	2	158552-61900	O-RING	1							
83	2	22190-100002	WASHER, SEAL 10	1							
85	2	22372-040000	PIN, SNAP 4	1							
86	2	26106-060102	BOLT, M6X 10 PLATED	4							
87	2	26106-060142	BOLT, M6X 14 PLATED	2							
88	2	26106-060202	BOLT, M6X 20 PLATED	4							
89	2	26106-060452	BOLT, M6X 45 PLATED	3							
90	2	26756-060002	NUT, LOCK M6	1							
124	2	119233-77932	SOLENOID, STOP	1							

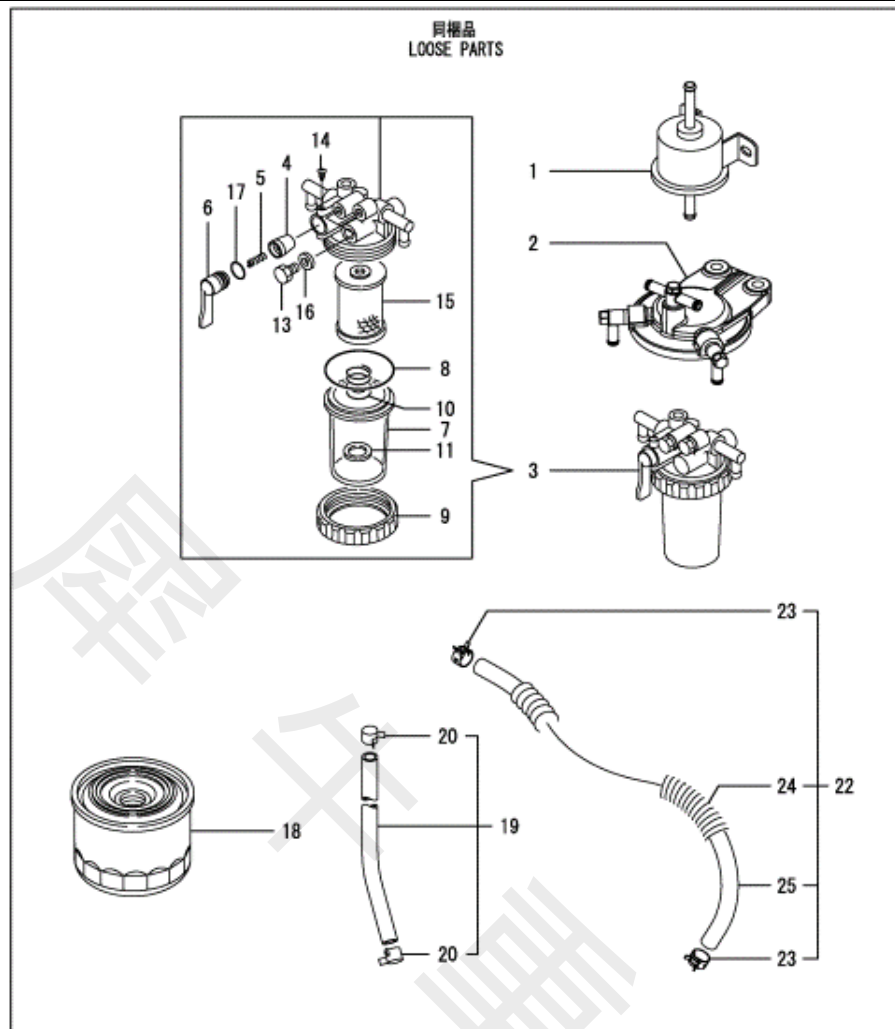
2.4 .1.12 FUEL INJECTION VALVE



2.4 .1.12 FUEL INJECTION VALVE

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119517-53001	VALVE ASSY, INJECTION	3							
3	2	119517-53010	NOZZLE ASSY	3							
4	2	129901-53800	SHIM SET, ADJUSTING	3							1
15	1	129150-59120	RETAINER, PIPE	1							
18	2	129150-59131	BOLT, M4X14	2							
20	1	119546-59810	PIPE ASSY, INJECTION	1							
21	1	119546-59820	PIPE ASSY, INJECTION	1							
22	1	119546-59830	PIPE ASSY, INJECTION	1							
23	1	103854-39140	BOLT, PIPE JOINT	1							
24	1	101304-59020	JOINT, PIPE 12	1							
25	1	22190-120002	WASHER, SEAL 12	2							
26	1	119515-59540	PIPE ASSY, RETURN	1							
32	1	119744-59560	PIPE ASSY, RETURN	1							
33	2	124066-59100	CLIP, HOSE 8	2							
36	1	129901-59560	GASKET	3							
37	1	119740-59590	JOINT, OVER FLOW	1							
38	1	119620-59700	NUT, NOZZLE	3							
39	1	119813-59950	VALVE ASSY, CHECK	1							
45	1	22190-120002	WASHER, SEAL 12	2							

2.4 .1.13 FUEL PIPE

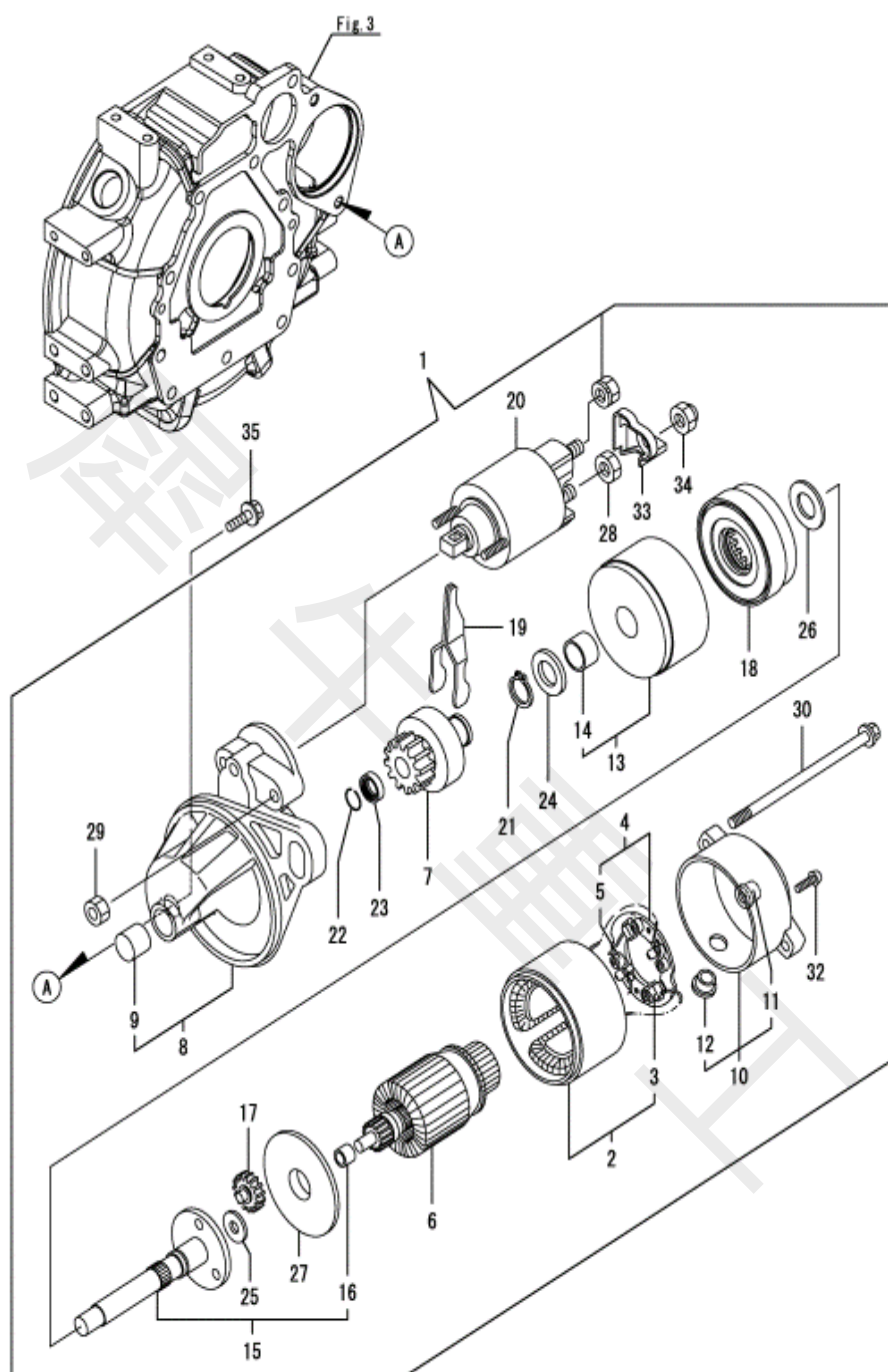


(A) 3TNV70-SSY
(B) ■
(C) ■

(D) ■
(E) ■
(F) ■

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	129612-52100	PUMP ASSY, FUEL FEED	1							
2	1	119934-55611	BRACKET, FILTER	1							
3	1	129335-55701	SEPARATOR ASSY, WATER	1							
4	2	104200-55321	VALVE, TAPER	1							
5	2	104200-55330	SPRING, VALVE	1							
6	2	104200-55341	HANDLE	1							
7	2	124064-55510	COVER	1							
8	2	102103-55520	O-RING	1							
9	2	110250-55610	RING, RETAINING	1							
10	2	121257-55720	SPRING	1							
11	2	121257-55731	FLOAT	1							
13	2	101720-55750	PLUG, 6	2							
14	2	104200-55750	SCREW, M4	1							
15	2	171081-55910	SCREEN	1							
16	2	23418-060000	GASKET, 6X1.0	2							
17	2	24311-240100	O-RING, 1AP10A	1							
18	1	129004-55801	FILTER, FUEL	2							
19	1	129210-59080	PIPE ASSY, FUEL	1							
20	2	124766-59050	CLIP, HOSE 11.5	2							
22	1	129950-59211	PIPE, FUEL	1							
23	2	124766-59050	CLIP, HOSE 11.5	2							
24	2	129950-59221	TUBE, CORRUGATED	1							
25	2	105025-59530	PIPE, FUEL D13X400	1							

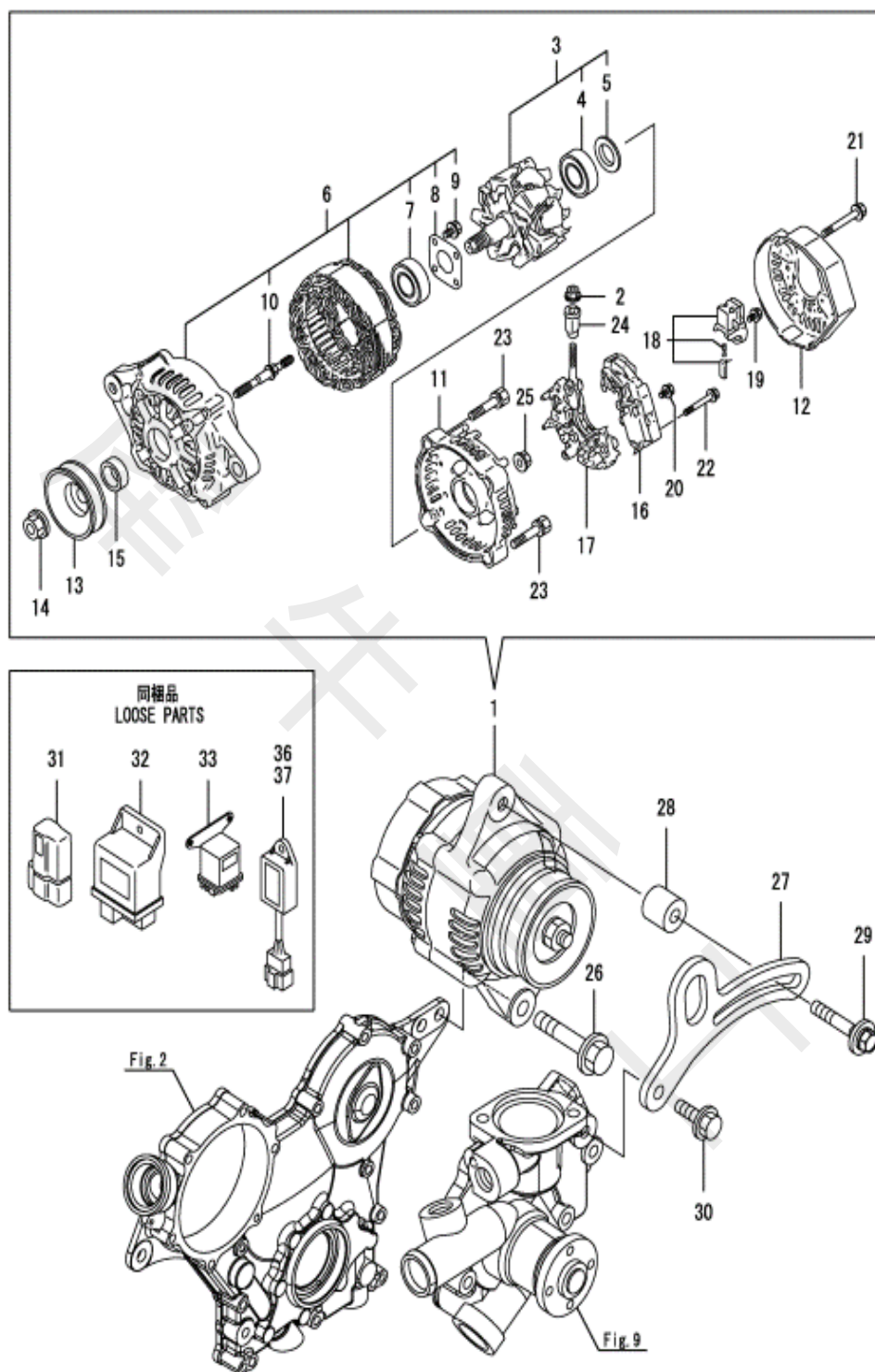
2.4 .1.14 STARTER MOTOR



2.4 .1.14 STARTER MOTOR

No.	Lev.	Parts No.	Description	(A) 3TNV70-SSY (D) (B) (E) (C) (F)						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119717-77010	STARTER, P1.1	1							
2	2	X0281007750	YOKE ASSY	1							
3	3	X0280996180	STARTER KIT	2							
4	2	X0285105190	HOLDER ASSY	1							
5	3	X0285205030	SPRING	4							
6	2	X0282005991	ARMATURE ASSY	1							
7	2	X0283006960	CLUTCH ASSY	1							
8	2	X4284001590	HOUSING ASSY	1							
9	3	X9491050100	BEARING, NEEDLE	1							
10	2	X0285007030	FRAME ASSY	1							
11	3	X9491040990	BEARING	1							
12	3	X0280626010	COVER	1							
13	2	X0284105040	BEARING ASSY	1							
14	3	X9491034330	BEARING	1							
15	2	X0286105010	SHAFT ASSY	1							
16	3	X9491034320	BEARING	1							
17	2	X0286305010	GEAR	3							
18	2	X0286355010	GEAR	1							
19	2	X0287405140	LEVER	1							
20	2	X2534000090	SWITCH ASSY	1							
21	2	X9055715000	RING	1							
22	2	X9490721360	RING	1							
23	2	X0280210331	NUT	1							
24	2	X9490138110	WASHER	1							
25	2	X9490138090	WASHER	1							
26	2	X9490138100	WASHER	1							
27	2	X0284525010	PLATE	1							
28	2	X9490562360	NUT	1							
29	2	X9490560750	NUT	2							
30	2	X9490423420	BOLT, THROUGH	2							
32	2	X9490065670	SCREW, M4X6	2							
33	2	X1280330020	COVER, TERMINAL	1							
34	2	X1289510130	NUT	1							
35	1	26106-100252	BOLT, M10X 25 PLATED	2							

2.4 .1.15 GENERATOR



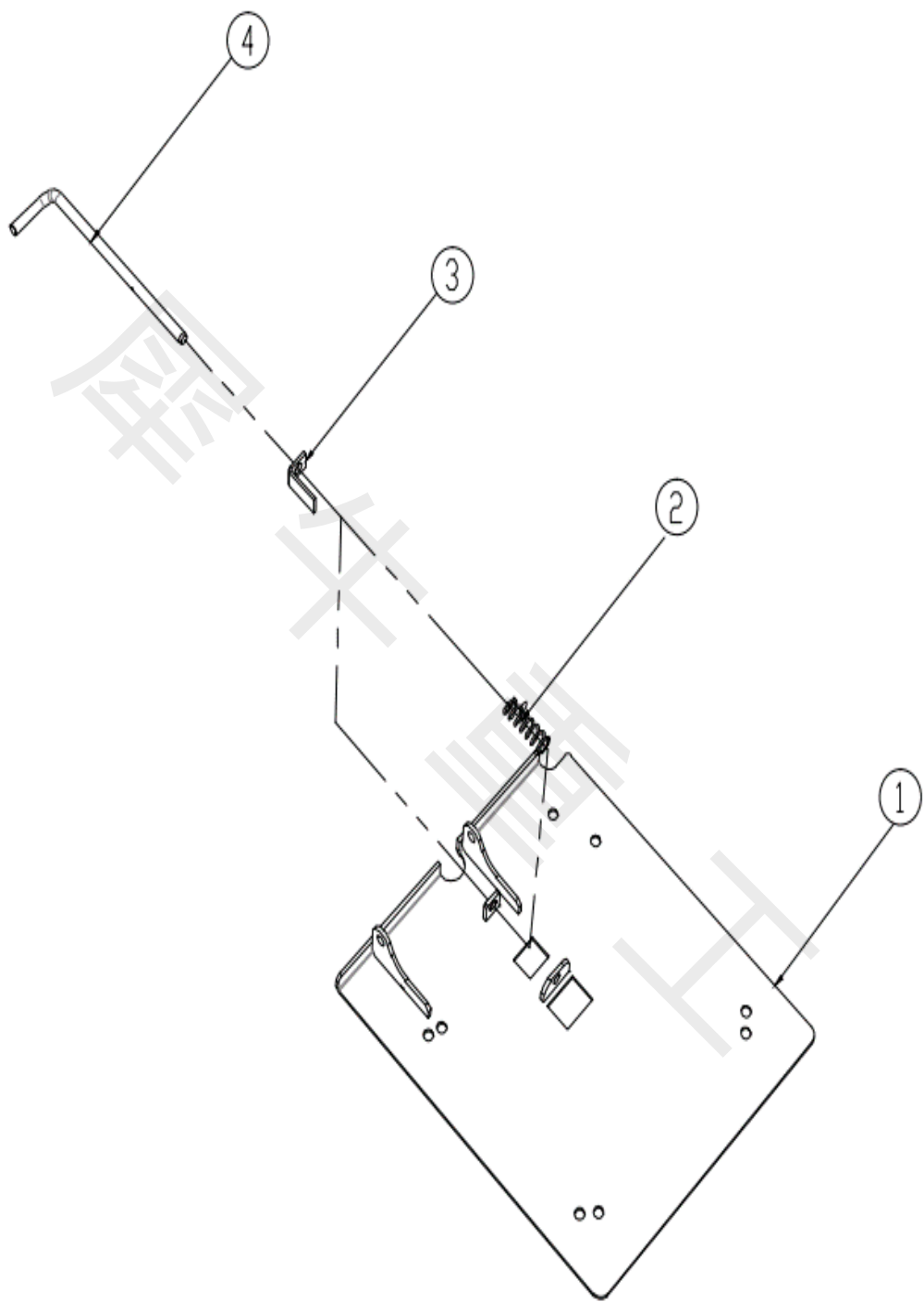
2.4 .1.15 GENERATOR

No.	Lev.	Parts No.	Description	Q'ty						I	R
				(A)	(B)	(C)	(D)	(E)	(F)		
1	1	119626-77210	ALTERNATOR, 12V-55A	1							
2	2	X9490561001	NUT	1							
3	2	129052-77380	ROTOR ASSY	1							
4	3	123501-79240	BEARING, BALL	1							
5	3	119620-79250	COVER	1							
6	2	129052-77422	FRAME ASSY	1							
7	3	119620-79200	BEARING, BALL	1							
8	3	119620-79210	PLATE, RETAINER	1							
9	3	119620-79220	SCREW	4							
10	3	119620-79230	STUD	2							
11	2	128401-77440	FRAME	1							
12	2	119626-77450	COVER	1							
13	2	119620-77461	PULLEY	1							
14	2	119620-77471	NUT	1							
15	2	119620-77490	COLLAR	1							
16	2	129423-77710	REGULATOR ASSY	1							
17	2	129052-79260	HOLDER	1							
18	2	129052-79270	HOLDER, BRUSH	1							
19	2	119620-79290	SCREW	6							
20	2	119620-79300	SCREW	1							
21	2	119620-79310	BOLT	3							
22	2	119620-79320	SCREW	2							
23	2	119620-79330	BOLT	2							
24	2	119620-79340	BUSH, INSULATION	1							
25	2	119620-79350	NUT	2							
26	1	26106-100502	BOLT, M10X 50 PLATED	1							
27	1	119230-77330	ADJUSTER	1							
28	1	124732-77340	SPACER	1							
29	1	129972-77341	BOLT, ADJUSTER L=50	1							
30	1	26106-080202	BOLT, M8X 20 PLATED	1							
31	1	119643-66900	DIODE	1							
32	1	119802-77200	RELAY, SAFETY	1							
33	1	119650-77911	RELAY ASSY, GLOW	1							
36	1	129155-77925	TIMER	1							
37	1	129211-77920	TIMER	1							

2.13 SEAT ADJUSTER 座椅调节板

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.13.1	Adjustment plate	调节板	1	
2	2.13.2	spring	弹簧	1	
3	2.13.3	L plate	L板	1	
4	2.13.4	Tie rod	拉杆	1	

2.13 SEAT ADJUSTER 座椅调节板



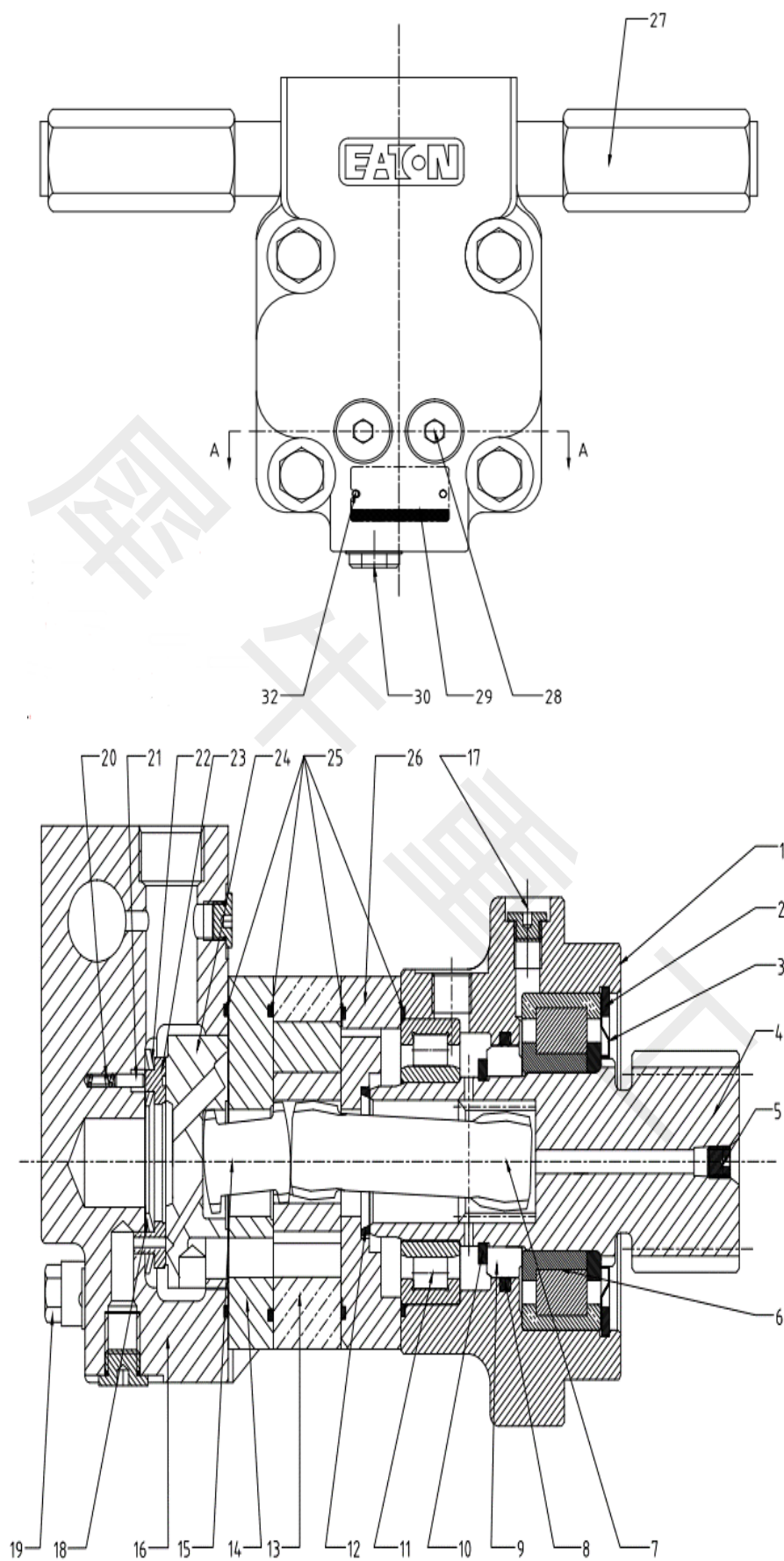
2.41 ROTARY MOTOR 回转马达

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	6029069-001	Bearing shell	轴承壳体	1	
2	6029068-001	Retaining ring	挡圈	1	
3	Z420-01	Bearing cover	轴承盖	1	
4	6029067-001	The output shaft	输出轴	1	
5	Z351-02	plug	堵头	1	
6	6029023-002	bearing	轴承	1	
7	G018-01	Joint shaft	联动轴	1	
8	K301	Xring	Xring	1	
9	6029068-003	The sealing ring	密封挡圈	1	
10	6029124-001	Retaining ring	挡圈	1	
11	6029023-001	bearing	轴承	1	
12	9050-000	The shaft end seal	轴端密封	1	
13	Y136-3	GG	GG	1	
14	22134	Oil distribution disc	配油盘	1	
15	G205	The joint shaft	阀联动轴	1	
16	C017-01	shell	壳体	1	
17	Z351-01	Oil plug	油堵	6	
18	9049-0	Inner ring seal	内圈密封	1	
19	14384-010	bolt	螺栓	4	
20	7383	spring	弹簧	2	
21	14351	pin	销子	2	
22	913-2	The outer ring seal	外圈密封	1	
23	8915	Balance disc	平衡盘	1	
24	21466	Oil distribution valve	配油阀	1	
25	4999136-001	o-rings	O型圈	4	
26	F222	Wear-resistant plate	耐磨盘	1	
27	02-164261	The overflow valve	溢流阀	2	
28	6041370-001	plug	堵头	2	
29	P051	The sign	标牌	1	
30	P708-01	Plastic oil plug	塑料油堵	2	
31	P709	Plastic oil plug	塑料油堵	2	
32	Z241-02	The rivet	铆钉	2	
33	L048	spring	弹簧	2	

2.41 ROTARY MOTOR 回转马达

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
34	Z071-06	Steel ball	钢球	2	

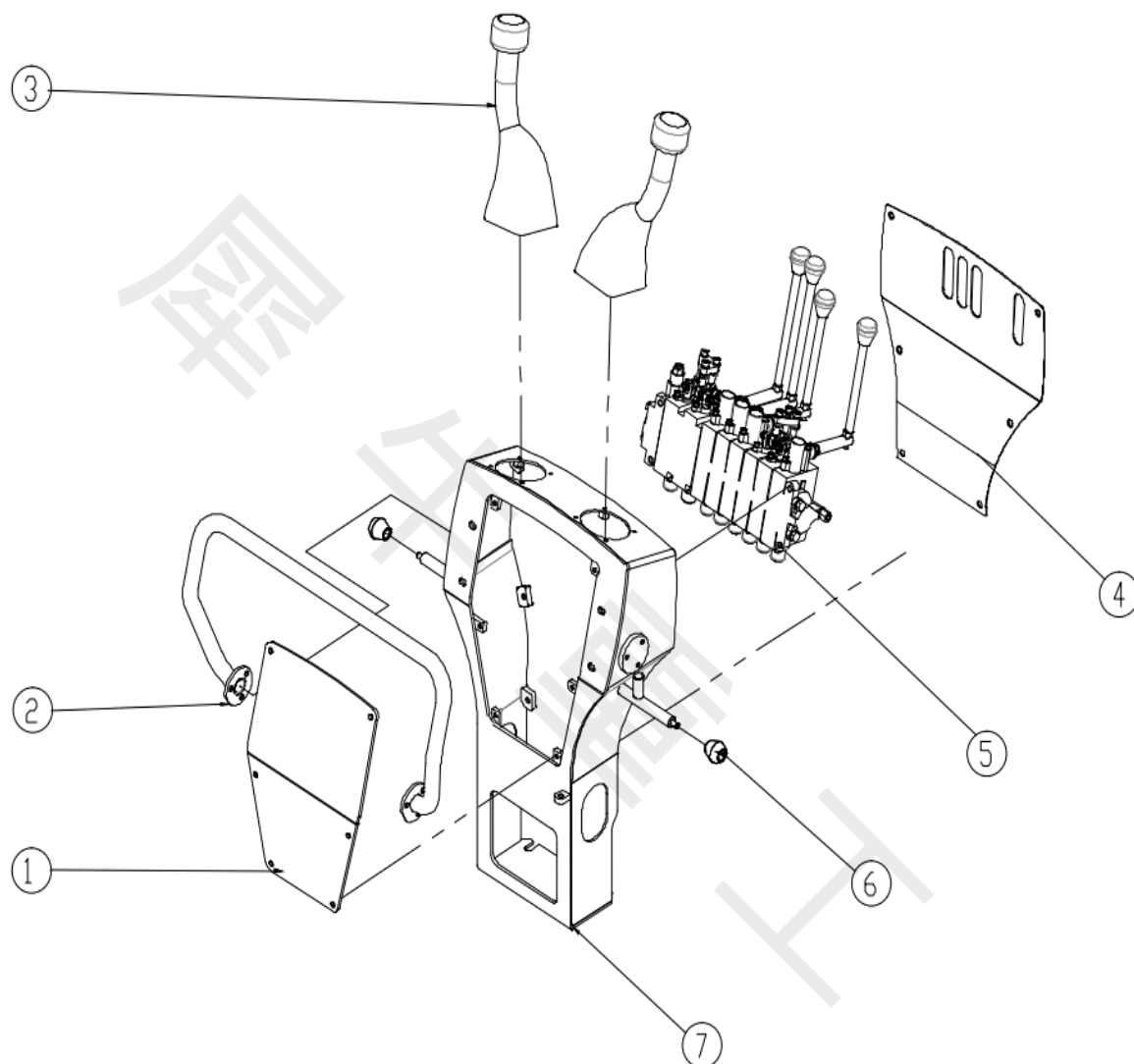
2.41 ROTARY MOTOR 回转马达



2.42 OERATING COVER 操作罩

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.42.1	Bblind flange	盖板	1	
2	2.42.2	Armrest	扶手	1	
3	2.42.3	Operation handle	操作手柄	2	
4	2.42.4	Blind flange	盖板	1	
5	2.42.5	Main Valve Assembly	主阀总成	1	
6	2.42.6	Balls.	球头	2	
7	2.42.7	Operation cover welding	操作罩焊合	1	

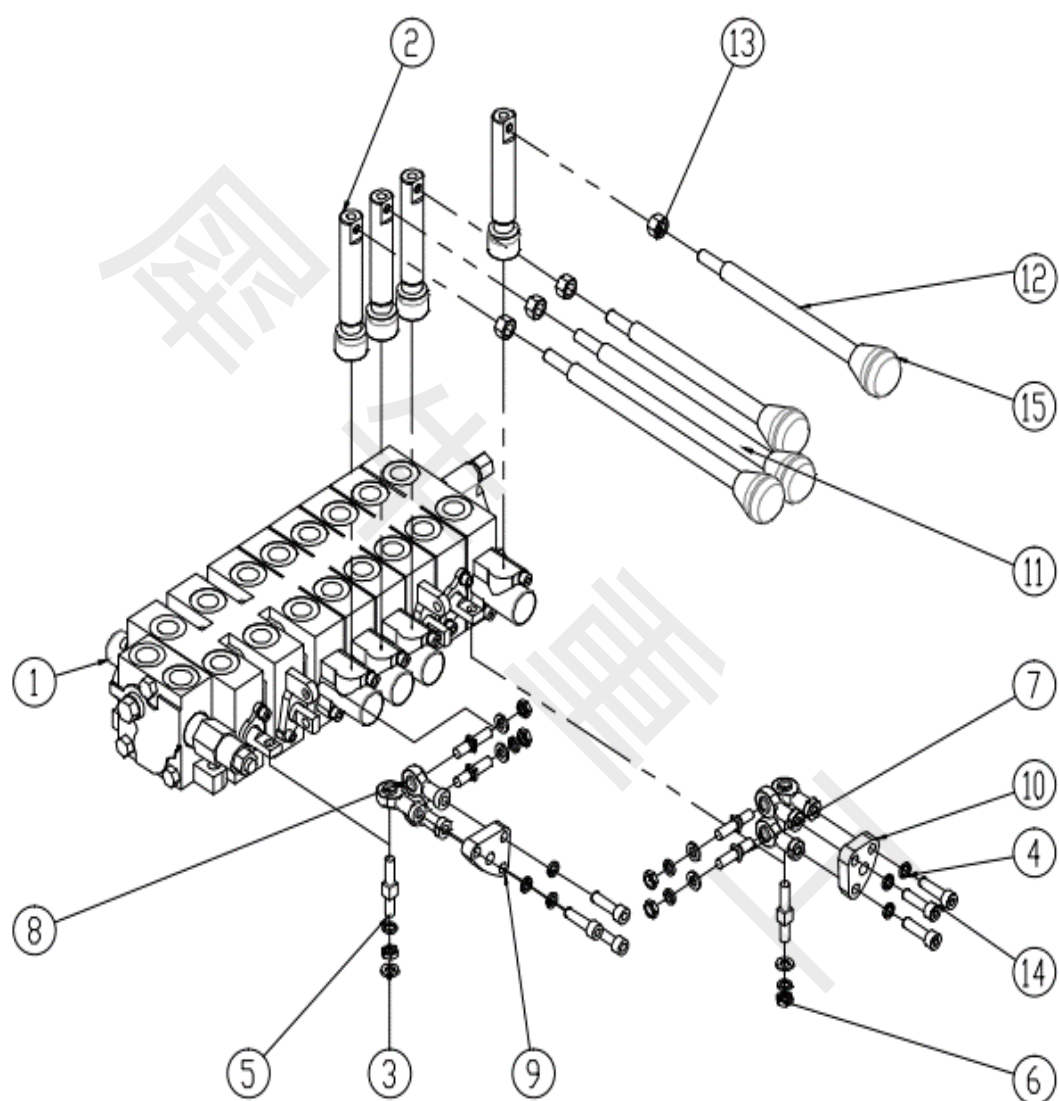
2.42 OPERATING COVER 操作罩



2.42.5 Main Valve Assembly 主阀总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.42.5.5	Main Valve	主阀	1	
2	2.42.5.2	Joystick	操作杆	4	
3	2.42.5.3	Flat washer φ 8	平垫圈 φ 8	6	
4	2.42.5.4	Spring washer φ 8	弹簧垫圈 φ 8	12	
5	2.42.5.5	Connection Bar 1	连接杆1	2	
6	2.42.5.6	Nut M8	螺母M8	4	
7	2.42.5.7	Connection Bar 2	连接杆2	4	
8	2.42.5.8	Turn to the ball head.	转向球头	6	
9	2.42.5.9	Handle connection block(right)	手柄连接块 (右)	1	
10	2.42.5.10	Handle connection block(left)	手柄连接块 (左)	1	
11	2.42.5.11	Operating stick length	操作杆长	2	
12	2.42.5.12	Operation rod break	操作杆断	2	
13	2.42.5.13	Nut M10	螺母M10	4	
14	2.42.5.14	Inner Heptagonal Bolt M8X30	内六角螺栓M8X30	6	
15	2.42.5.15	Plastic ball head	塑料球头	4	

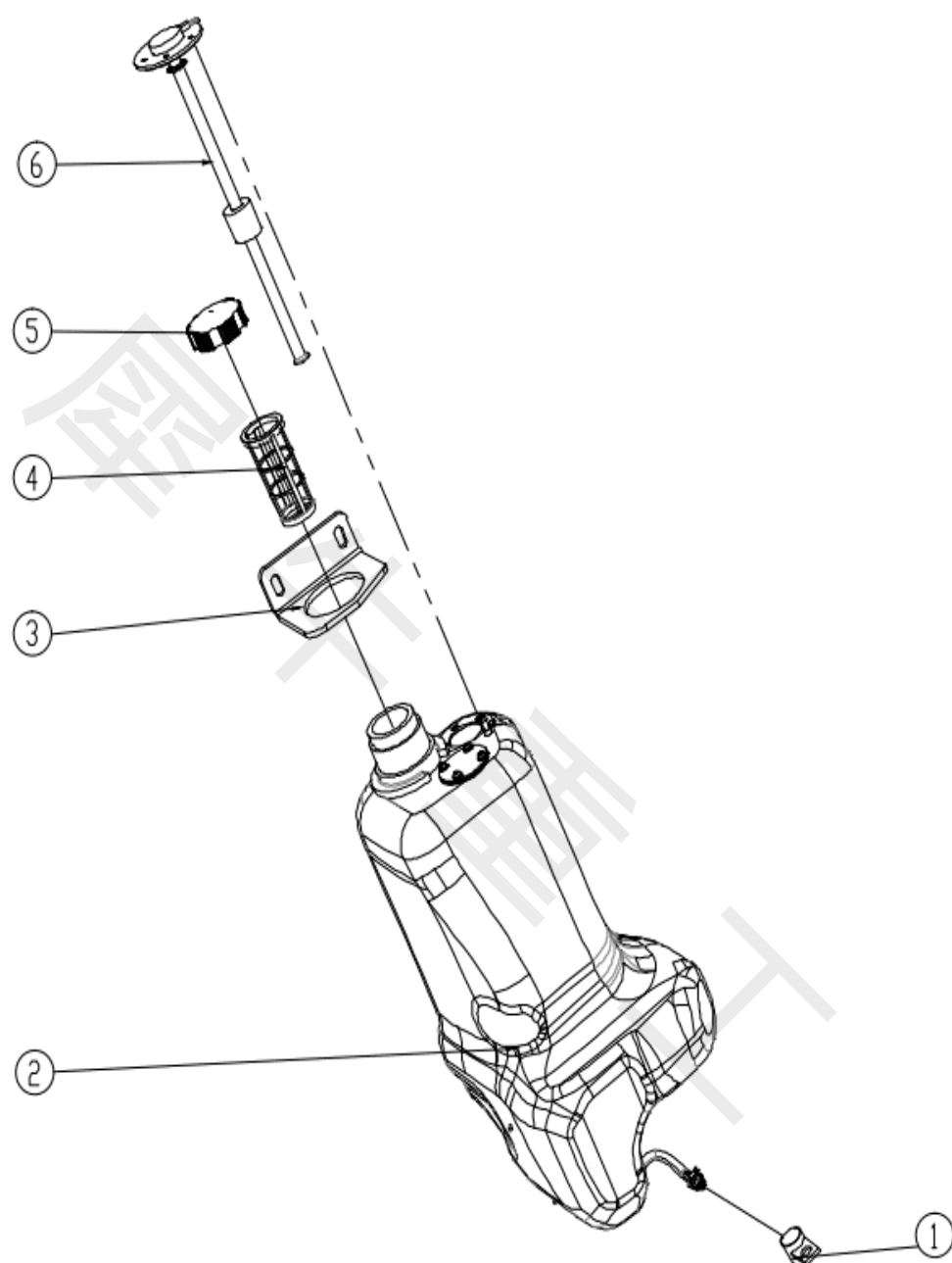
2.42.5 Main Valve 主阀



2.51 DIESEL FUEL TANK ASSEMBLY 柴油箱总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.51.1	Oil drain port	放油口	1	
2	2.51.2	Diesel fuel tank	柴油箱	1	
3	2.51.3	Fixed plate	固定板	1	
4	2.51.4	Screen	滤网	1	
5	2.51.5	Fuel tank cap	油箱盖	1	
6	2.51.6	Diesel sensor	柴油传感器	1	

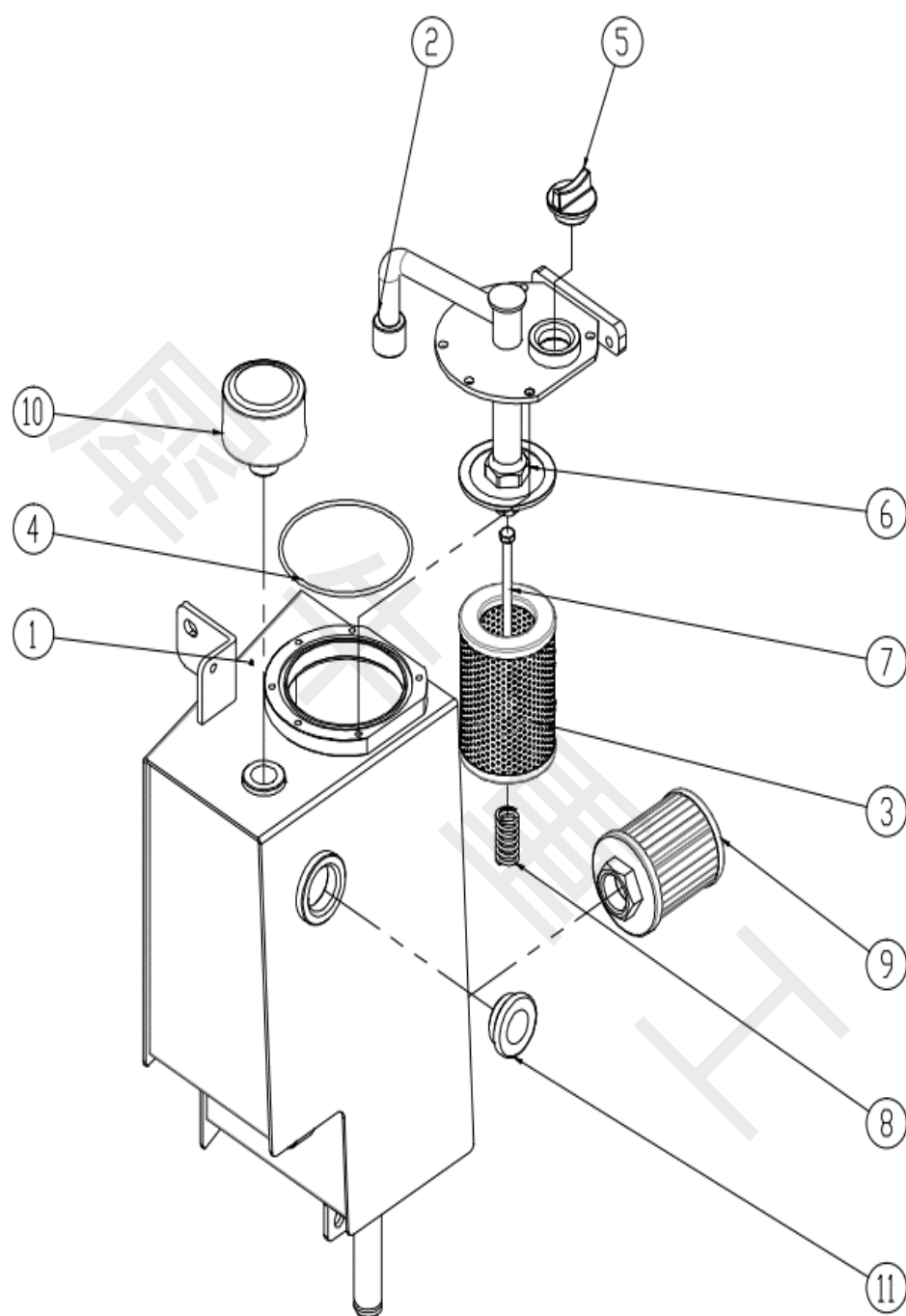
2.51 DIESEL FUEL TANK ASSEMBLY 柴油箱总成



2.52 HYDRAULIC TANK ASSEMBLY 液压油箱总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.52.1	Hydraulic tank welding	液压油箱焊接	1	
2	2.52.2	Oil return mouth	回油口焊合	1	
3	2.52.3	Back to the oil filter	回油滤芯	1	
4	2.52.4	o-rings	O型圈	1	
5	2.52.5	Plastic tank cover.	塑料油箱盖	1	
6	2.52.6	Filter holder	滤芯座	1	
7	2.52.7	bolt	螺栓	1	
8	2.52.8	Return oil filter core spring.	回油滤芯压簧	1	
9	2.52.9	Oil suction filter	吸油滤芯	1	
10	2.52.20	The cap	油箱盖	1	
11	2.52.21	Circular oil standard	圆形油标	1	

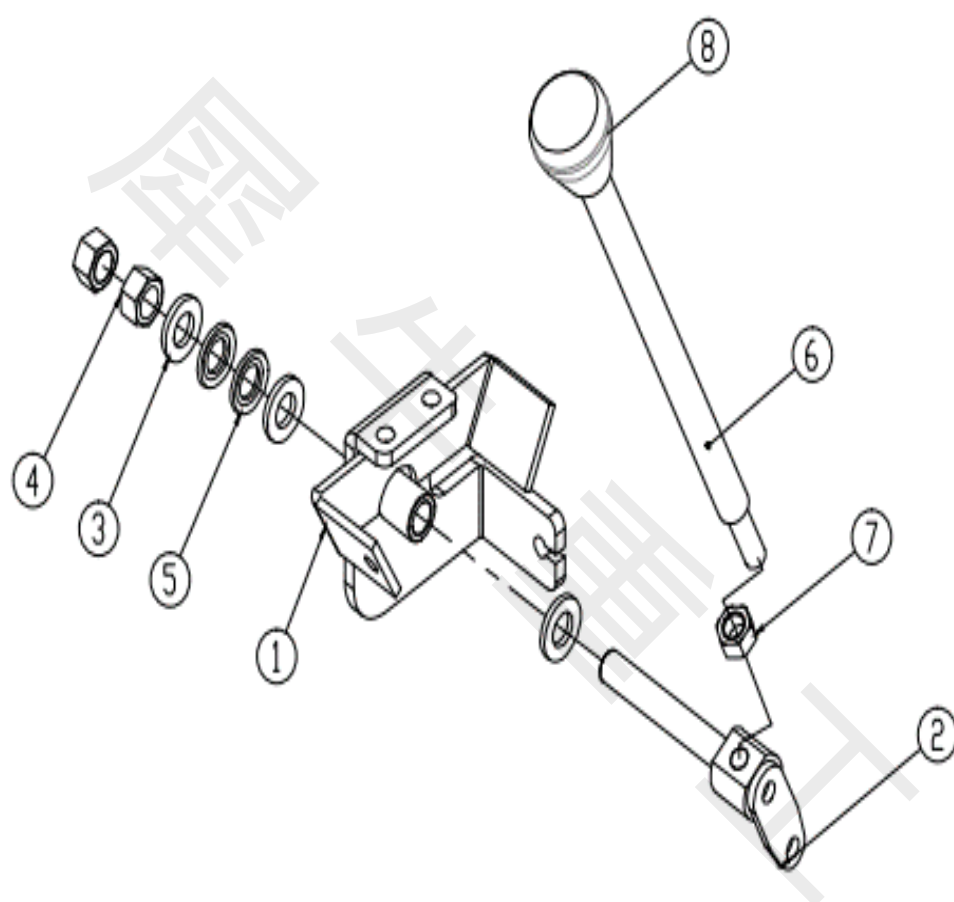
2.52 HYDRAULIC TANK ASSEMBLY 液压油箱总成



2.53 THE HAND THROTTLE 手油门

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	2.53.1	The hand throttle is welded together.	手油门架焊合	1	
2	2.53.2	Hand gas welding	手油门焊合	1	
3	2.53.3	The gasket	垫圈	3	
4	2.53.4	Nut M12	螺母M12	2	
5	2.53.5	Butterfly spring	蝶形弹簧	2	
6	2.53.6	The throttle lever	油门拉杆	1	
7	2.53.7	Nut M10	螺母M10	1	
8	2.53.8	Plastic ball head	塑料球头	1	

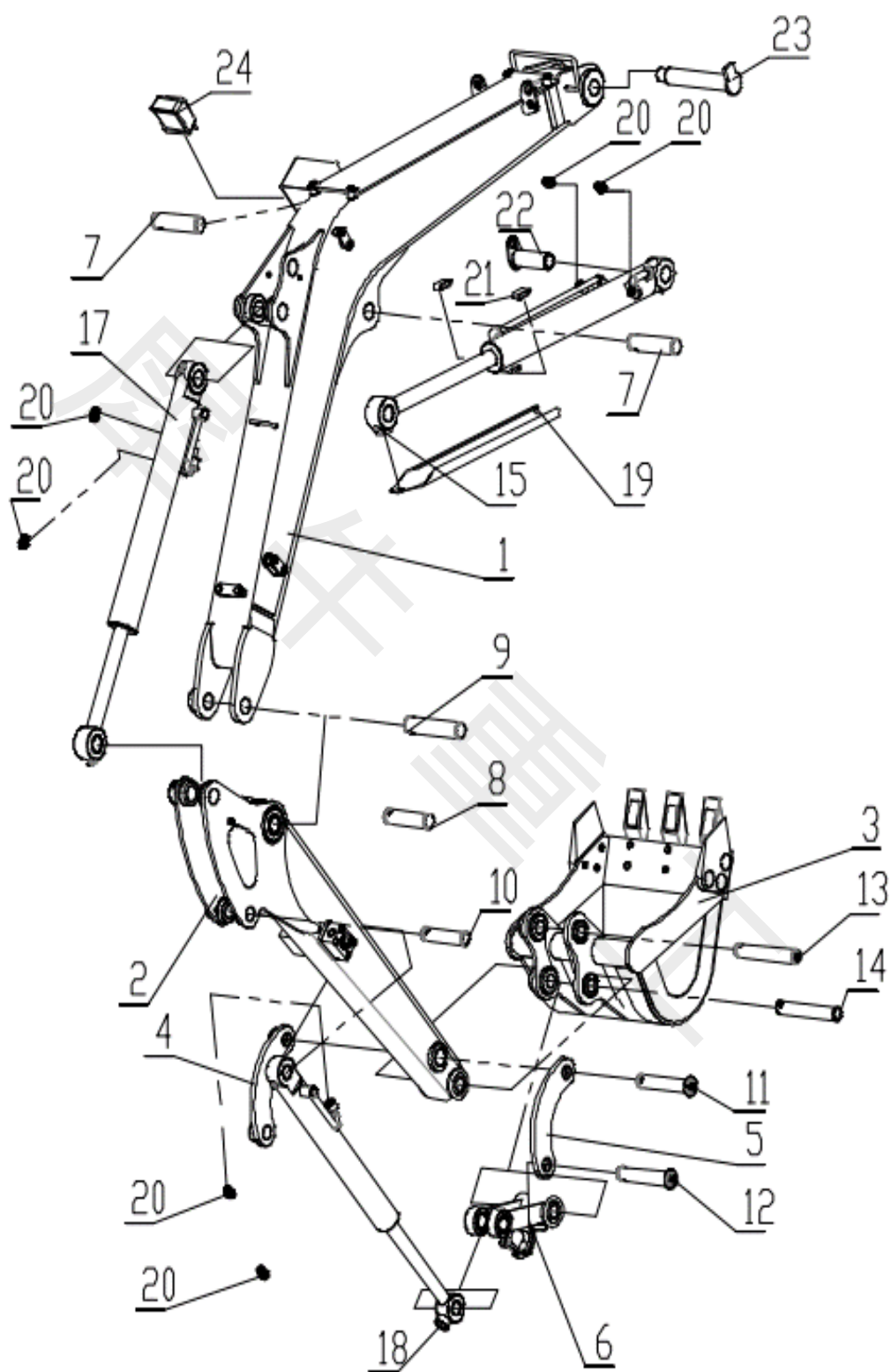
2.53 THE HAND THROTTLE 手油门



3.0 FRONT ASSY 前部装置

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	3.1	Lift arm ASSY	动臂总成	1	
2	3.2	Bucket rod ASSY	斗杆总成	1	
3	3.3	Bucket	铲斗	1	
4	3.4	Connecting rod welding	连杆焊合	1	
5	3.5	Connecting rod board	连杆板	1	
6	3.6	Pushing rod ASSY	推杆总成	1	
7	3.7	Axis A	轴-A	2	
8	3.8	Axis B	轴-B	1	
9	3.9	Axis C	轴-C	1	
10	3.10	Axis D	轴-D	1	
11	3.11	Axis G	轴-G	1	
12	3.12	Axis E	轴-E	1	
13	3.13	Axis H	轴-H	1	
14	3.14	Axis F	轴-F	1	
15	3.15	The boom cylinder	动臂缸	1	
16	3.16	Bucket cylinder rod	斗杆缸	1	
17	3.17	Bucket rod	铲斗缸	1	
18	3.18	Boom cylinder protector	动臂缸护罩	1	
19	3.19	Pipeline connection	油管接头	6	
20	3.20	Naimotao	耐磨套	2	
22	3.22	Back shaft of the arm cylinder	动臂缸后轴	1	
23	3.23	Back axle of the moving arm	动臂后轴	1	
24	3.24	Headlight.	大灯	1	

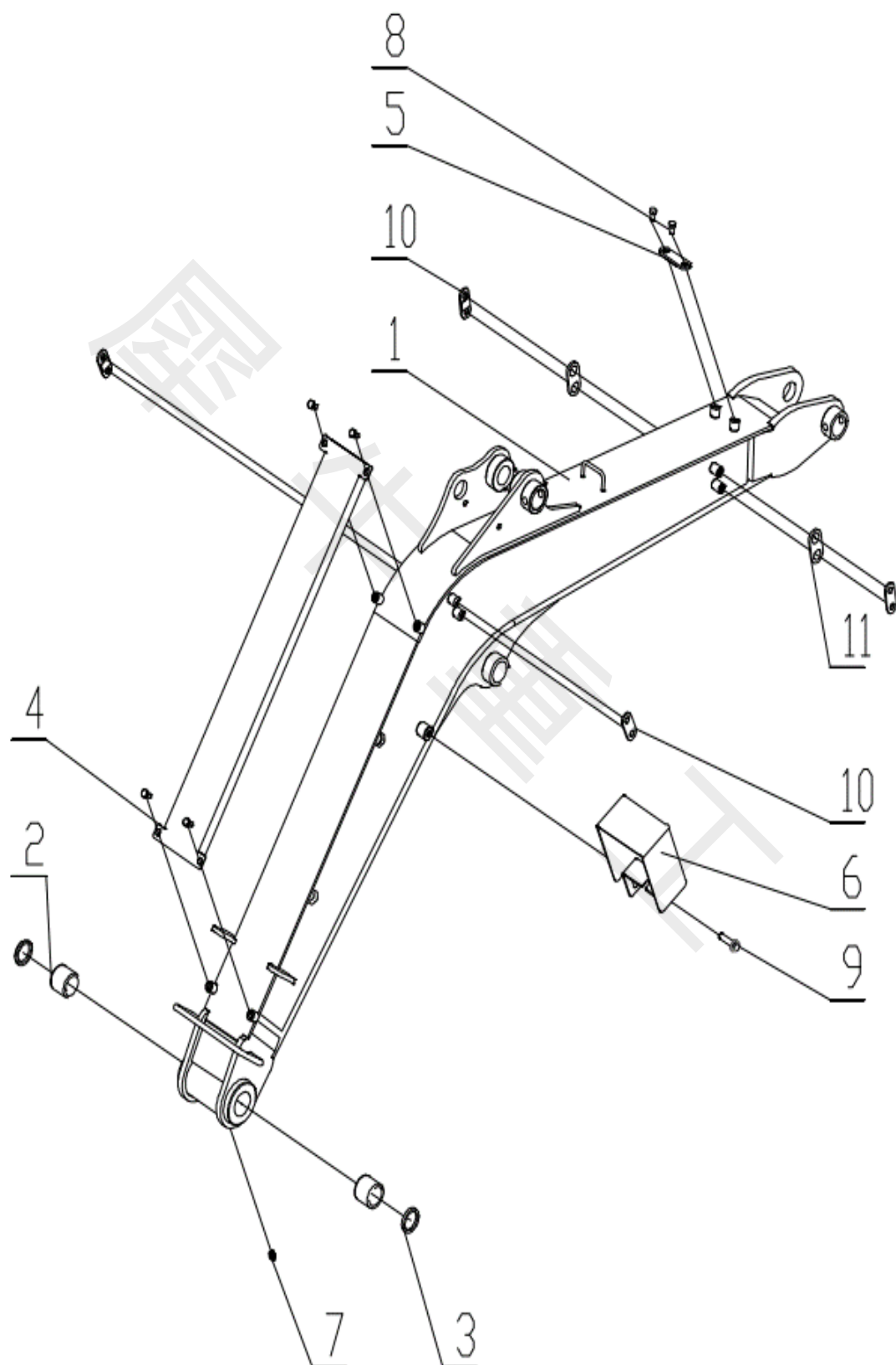
3.0 FRONT ASSY 前部裝置



3.1 Lift arm ASSY 动臂总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	3.1.1	Wired arm	动臂焊合	1	
2	3.1.2	An arm Bushing.	动臂衬套	2	
3	3.1.3	Oil seal-A	油封-A	2	
4	3.1.4	Pipe Shields	油管护板	1	
5	3.1.5	Pipe press	油管压板	1	
6	3.1.6	Lamp-chimney	灯罩	1	
7	3.1.7	Oil cup M10X1	油杯M10X1	1	
8	3.1.8	Bolt (M8X15 8.8)	螺栓	6	
9	3.1.9	Bolt (M10X40 8.8)	螺栓	1	
10	3.1.10	Pressing board	压板	4	
11	3.1.11	Rubber pads	橡胶垫	2	

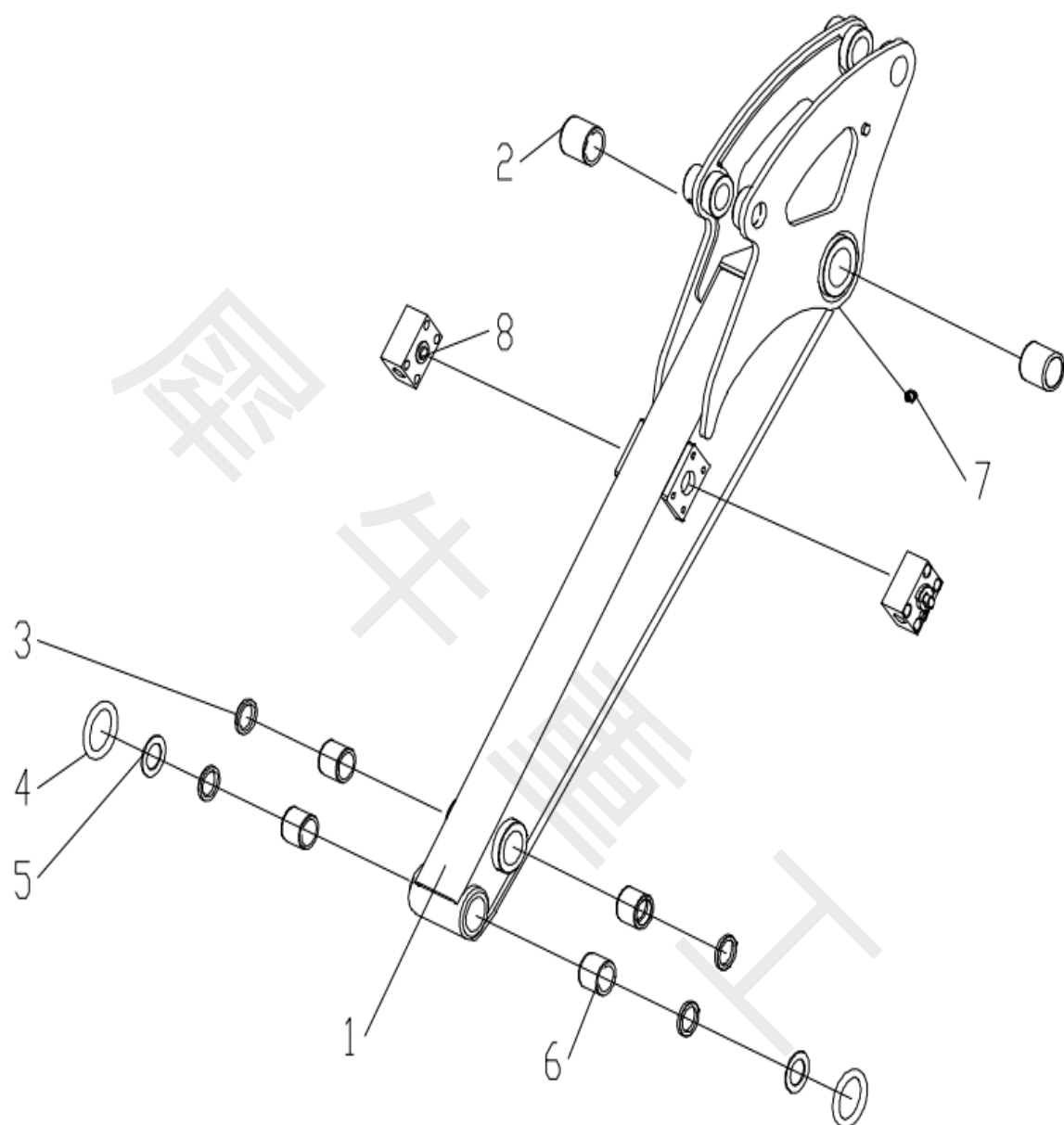
3.1 Lift arm ASSY 动臂总成



3.2 BUCKET ARM ASSY 斗杆总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	3.2.1	Column welding	斗杆焊接	1	
2	3.2.2	Column Bushing	斗杆衬套	2	
3	3.2.3	Oil seal-B	油封-B	4	
4	3.2.4	O-ring	O型圈	2	
5	3.2.5	Washer	垫圈	2	
6	3.2.6	Column Bushing	斗杆衬套	2	
7	3.2.7	Oil cup M10X1	油杯M10X1	1	
8	3.2.8	Turn valve	转阀	2	

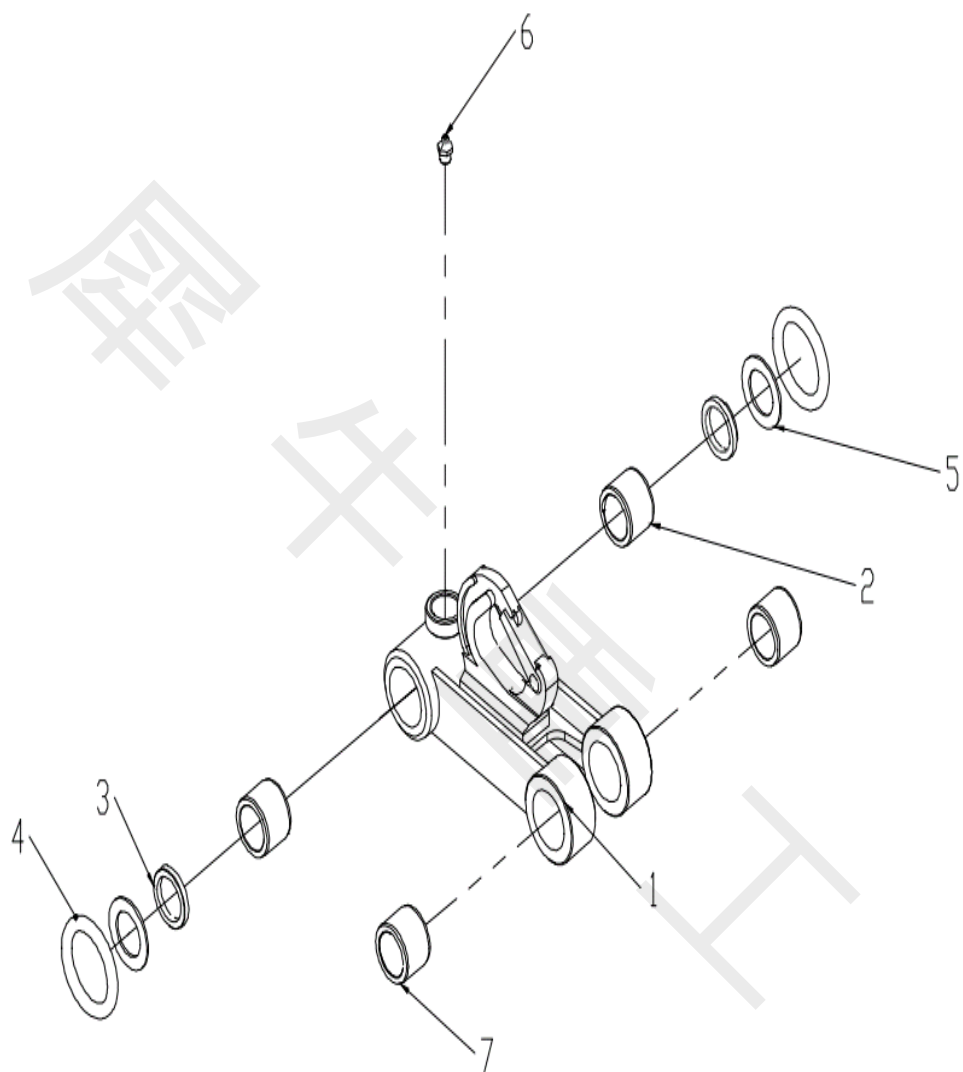
3.2 BUCKET ARM ASSY 斗杆总成



3.6 PUSHING ROD ASSY 推杆总成

序号 ITEM	零件号 PART NO.	Part Name	零件名称	数量 Q'TY	备注 Remark
1	3.6.1	Pushing rod	推杆	1	
2	3.6.2	Pushing rod steel jacket-A	推杆钢套-A	2	
3	3.6.3	Oil seal-B	油封-B	2	
4	3.6.4	O-ring	O型圈	2	
5	3.6.5	washer	垫圈	2	
6	3.6.6	Oil cup M10 x 1	油杯M10x1	1	
7	3.6.7	Pushing rod steel jacket-B	推杆钢套-B	2	

3.6 PUSHING ROD ASSY 推杆总成



PARTS BOOK

XN16

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