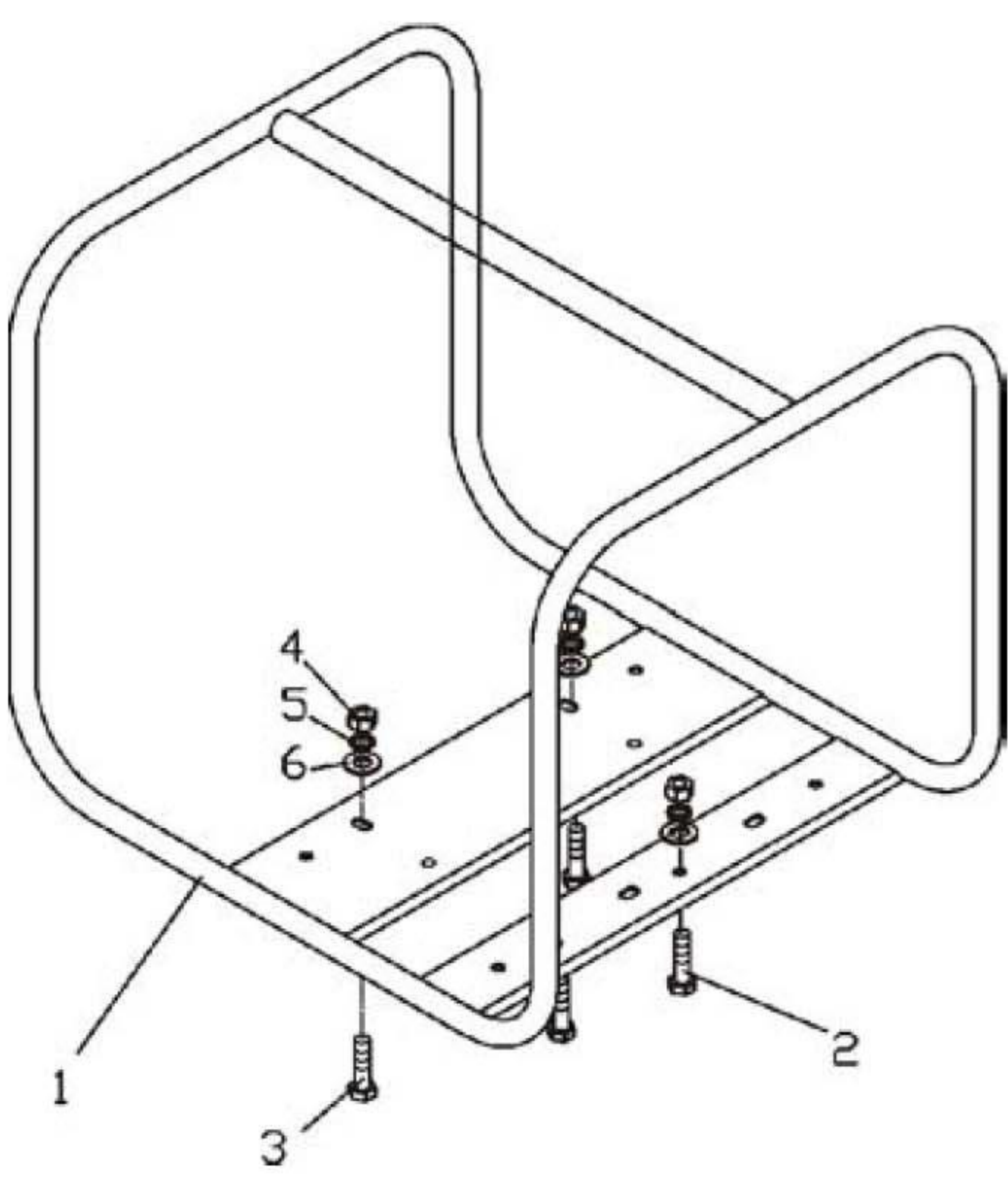


ASSEMBLY AND PARTS ALBUM



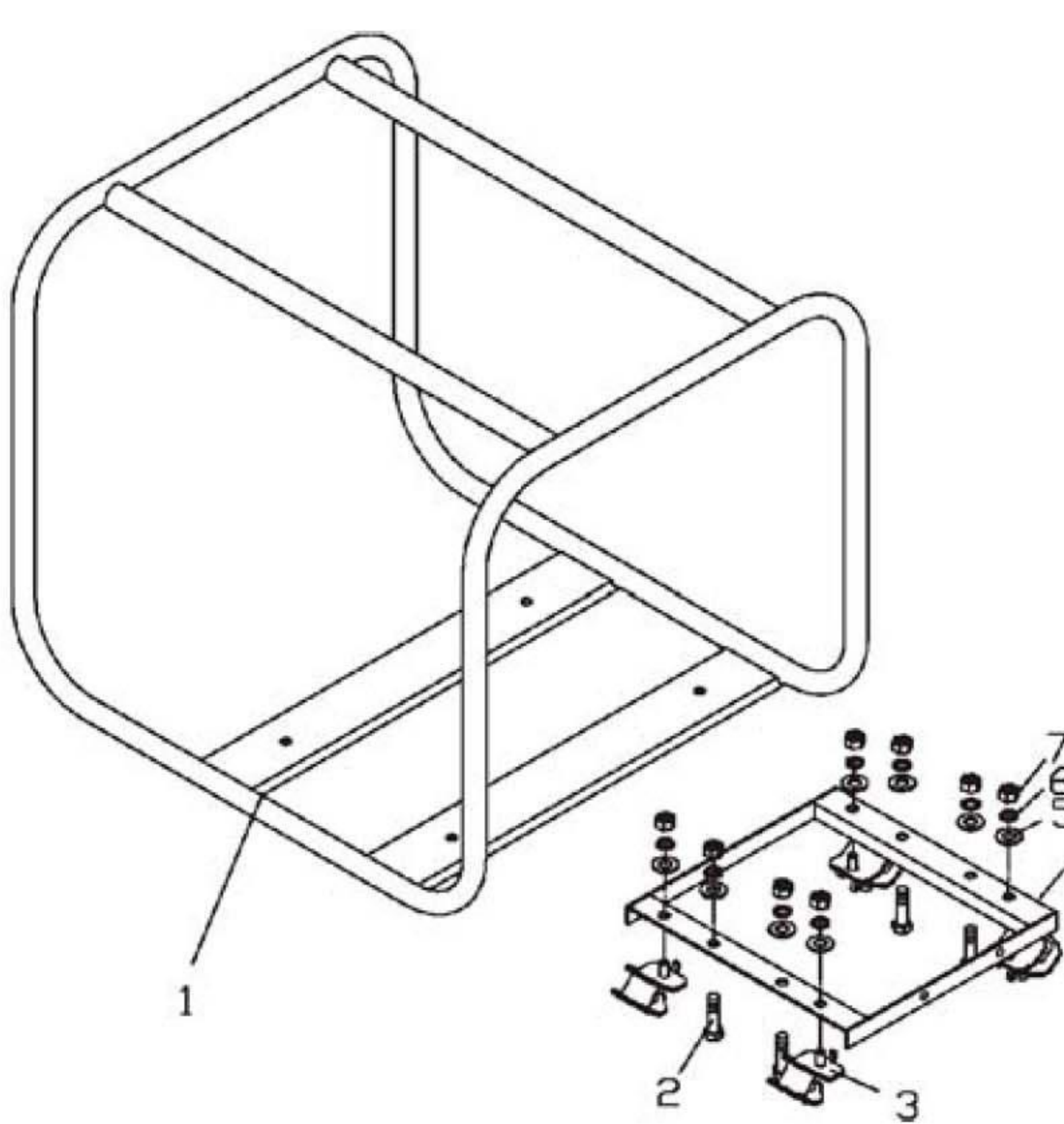
(2) 2" Pump Assembly (50SBZ-01000C)

No.	Code.	Description	Qty.
1	50SBZ-01012C	Screw Plug	2
2	GB/T3452.1-1992	O-Ring 25.8×3.55	2
3	GB/T5789-1986	Bolt M10×30	12
4	50SBZ-01005C	Drained Water Outlet Seat	1
5	50SBZ-01006C	Washer of Drained Water Outlet Seat	1
6	50SBZ-01008C	Rubber Seal Washer	2
7	50SBZ-01009C	Intake (Outlet) Pipe Joint	2
8	50SBZ-01007C	Locking Nut	2
9	50SBZ-01015	Adjusting Washer of Pump Cover	4
10	50SBZ-01001C	Pump Cover	1
11	50SBZ-01013C	Seal Washer	4
12	GB/T5789-1986	Bolt M8×35	4
13	GB/T3452.1-1992	O-Ring 218×3.55	1
14	50SBZ-01100C	Machine Seal Unit	1
15	50SBZ-01004C	Impeller	1
16	50SBZ-01003C	Diffuser	1
17	GB/T3452.1-1992	O-Ring 71×5.3	1
18	50SBZ-01002C	Pump Body	1
19	50SBZ-01200C	Flap Valve Assembly	1
20	50SBZ-01011C	Water Intake Seat	1



(3) Housing Assembly (SDP20-03000)

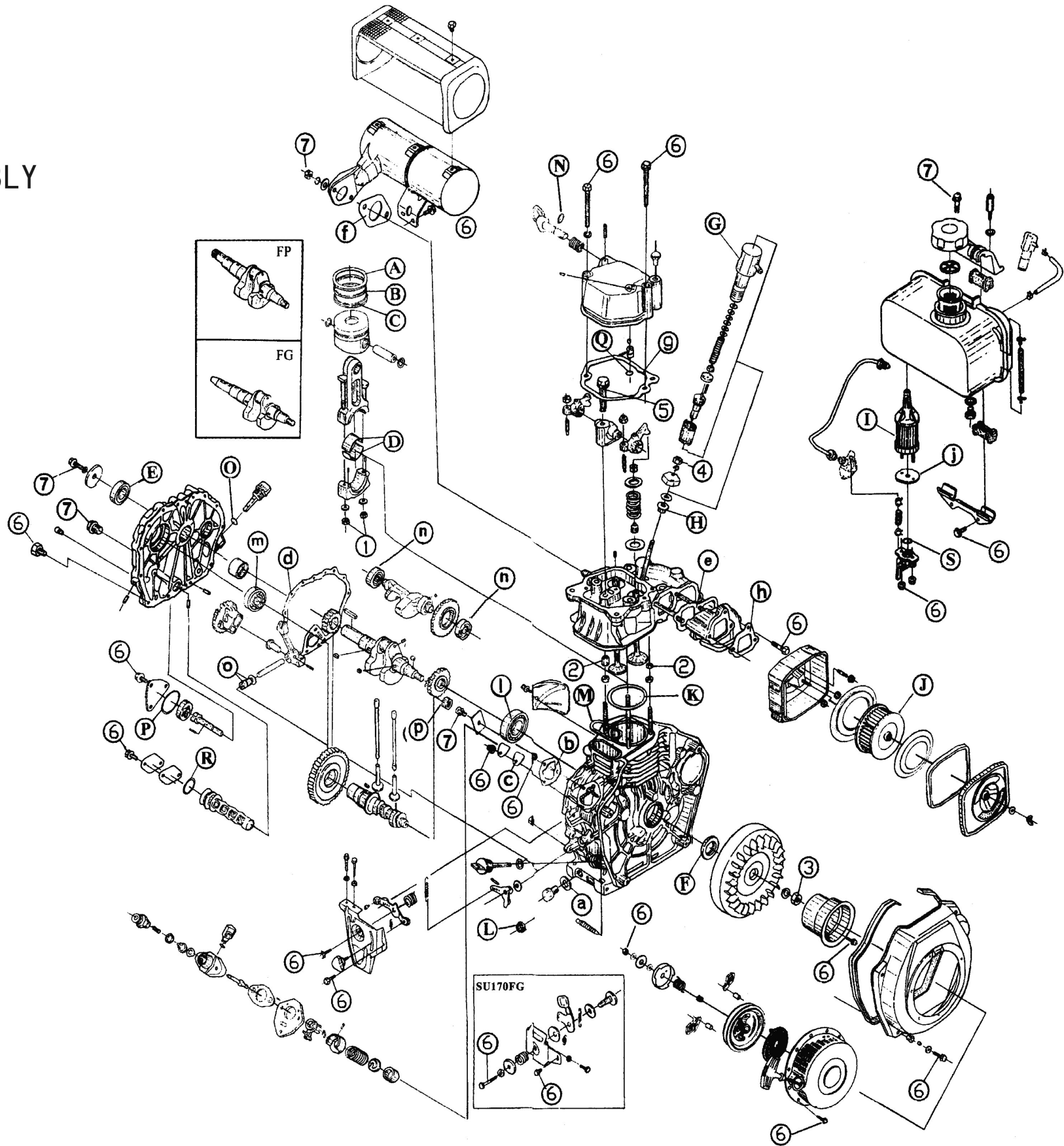
No.	Code.	Description	Qty.
1	50QBZ-01000	Housing	1
2	GB/T5781-1986	Bolt M8×35	2
3	GB/T5781-1986	Bolt M8×30	2
4	GB/T97.1-1985	Gasket 8	4
5	GB/T93-1987	Gasket 8	4
6	GB/T6170-1986	Nut M8	4



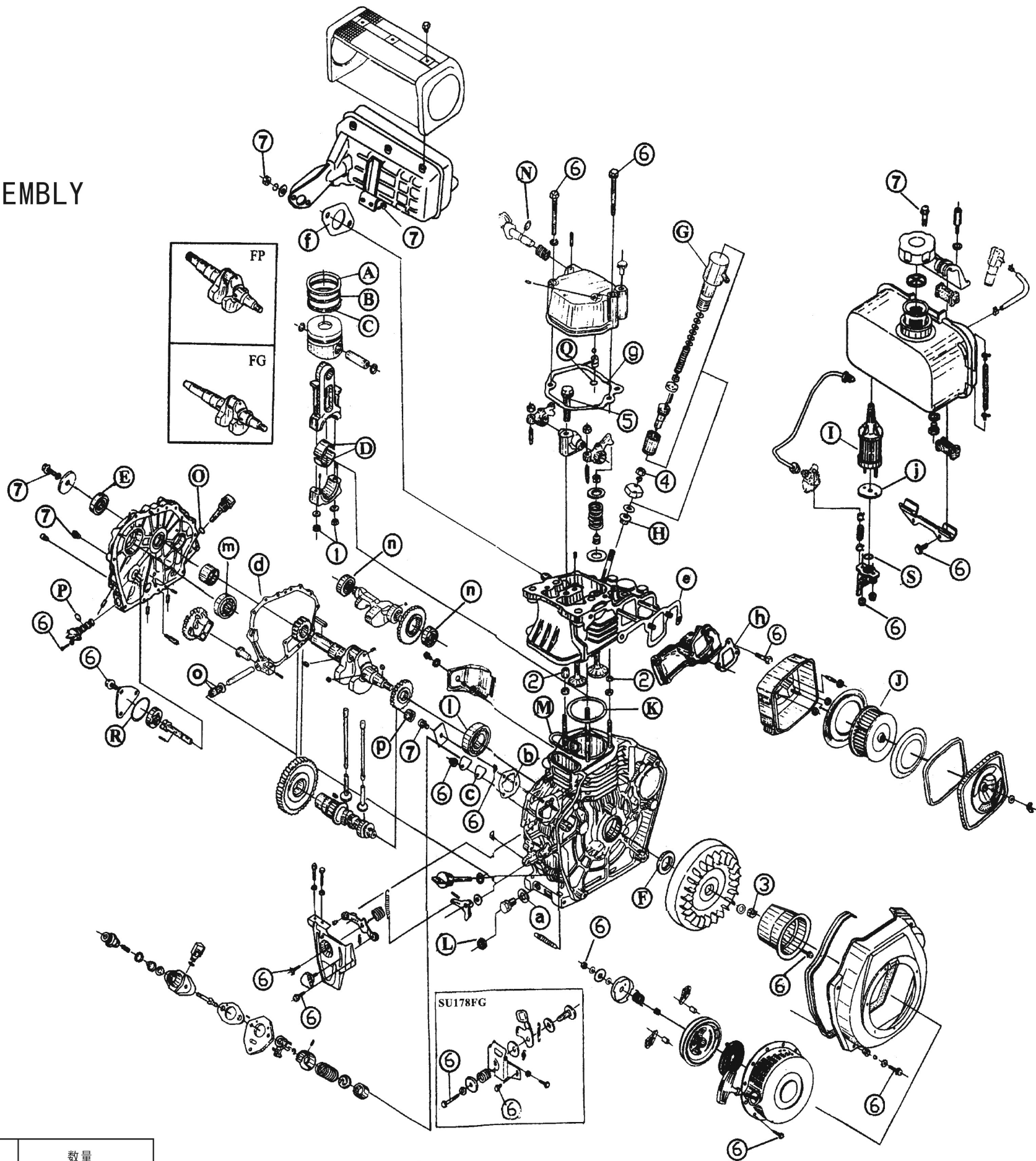
(4) Housing Assembly (SDP20-03000)

No.	Code.	Description	Qty.
1	50SBZ-03000	Housing	1
2	GB/T-5781-1986	Bolt M10×40	4
3	50SBZ-02001	Cushion	4
4	50SBZ-04000	Bracket	1
5	GB/T97.1-1985	Gasket 10	8
6	GB/T93-1987	Gasket 10	8
7	GB/T6170-1986	Nut M10	8

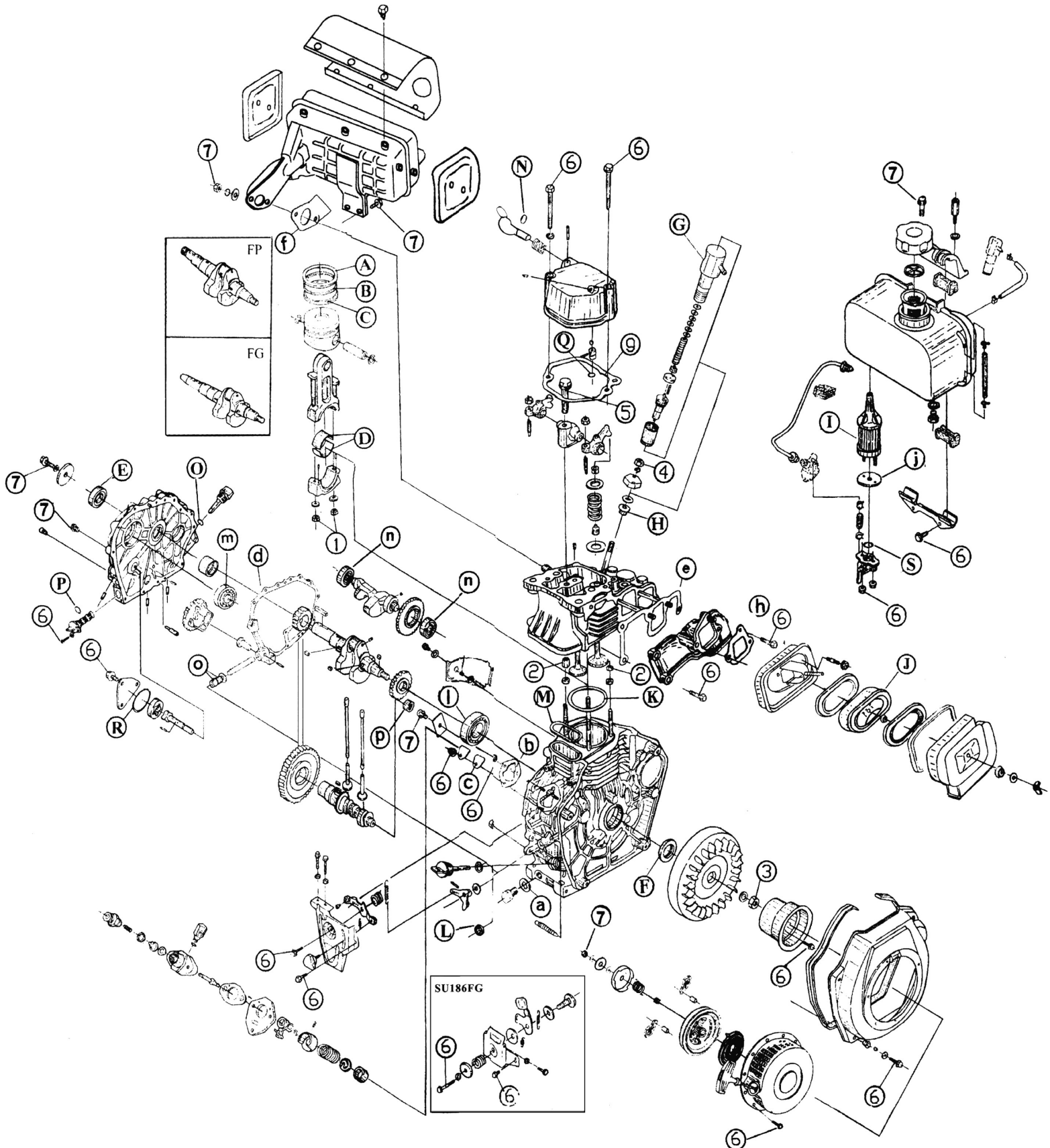
SU170 柴油机装配总成
SU170 DIESEL ENGINE ASSEMBLY



SU178 柴油机装配总成
SU178 DIESEL ENGINE ASSEMBLY



SU186 柴油机装配总成
SU186 DIESEL ENGINE ASSEMBLY



垫圈组 FULL GASKET SETS

序号	编号			名称			英文名称			数量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
a	7001100			放油螺塞垫片			Oil Plug Seal Assem			1		
b	7012001			喷油泵垫片			Fuel Injection Pump Gasket			1		
c	7012002			密封板垫片			Seal Gasket			1		
d	7001015	7801015	8601015	曲轴箱盖垫片			Crank Case Gasket			1		
e	7002014	7802014	8602014	进气管垫片			Air Intake Gasket			1		
f	7002015	7802015	8602015	消声器垫片			Silencer Gasket			1		
g	7003003		8603003	气缸盖罩垫片			Bonnet Gasket			1		
h	7007001		8607001	空气滤清器垫片			Air Cleaner Gasket			1		
i	7009002			机油滤盖板垫片			Oil Filter Gasket			1		
j	7010007			柴油滤垫片			Fuel Oil Filter Gasket			1		

轴承 BEARINGS

序号	编号			名称			英文名称			数量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
I	9801306	9801307	9801308	滚动轴承			Ball Bearing			1		
				6306	6307	6308	6306	6307	6308			
m	9801205	9801206	9801203	6205	6206	6207	6205	6206	6207	2		
n	9801202	9801203		6202		6203	6202		6203	2		
o	9802008			滚针轴承7941/8			Needle Bearing 7941/8			1		
p	9802015			滚针轴承37941/15			Needle Bearing 37941/15			1		

易损件 EASY DESTROYED PARTS

序号	编号			名称			英文名称			数量		
NO.	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
A	7004100	7804100	8604100	油环部件			Oil Ring Set			1		
B	7004001	7004001	8604001	第一道气环			First Gas Ring			1		
C	7004002	7004002	8604002	第二道气环			Second Gas Ring			1		
D	7004005	7804005	8604005	连杆轴瓦			Crank Pin Bearing			2		
E	9701025	9701302	9701351	油封			Oil Seal			1		
F	9701301		9701351	油封			Oil Seal			1		
G	7013000	7813000	8613000	喷油咀			Nozzle Valve			1		
H	7002011			隔热套			Spacer			1		
I	7010300	7810300	8610300	柴油滤芯部件			Filter Element Assem			1		
J	7007100			空气滤芯部件			Air Cleaner Element Assem			1		
K	7001013	7801013	8601013	气缸盖垫片			Cylinder Head Gasket			1		
L	7011008			油封SG8×14×2.5			Oil Seal SG8×14×2.5			1		
M	7001008	7801008	8601008	密封圈			Ring			1		
N	9702010			O形密封圈10×1.9			O-Ring10×1.9			1		
O	9702024			O形密封圈24×2.4			O-Ring24×2.4			2		
P	9702025			O形密封圈25×2.4			O-Ring25×2.4			1		
Q	9702012			O形密封圈12×1.9			O-Ring12×1.9			1		
R	9702345			O形密封圈34.5×1.8			O-Ring34.5×1.8			1		
S	9702132			O形密封圈13.2×1.9			O-Ring13.2×1.9			1		

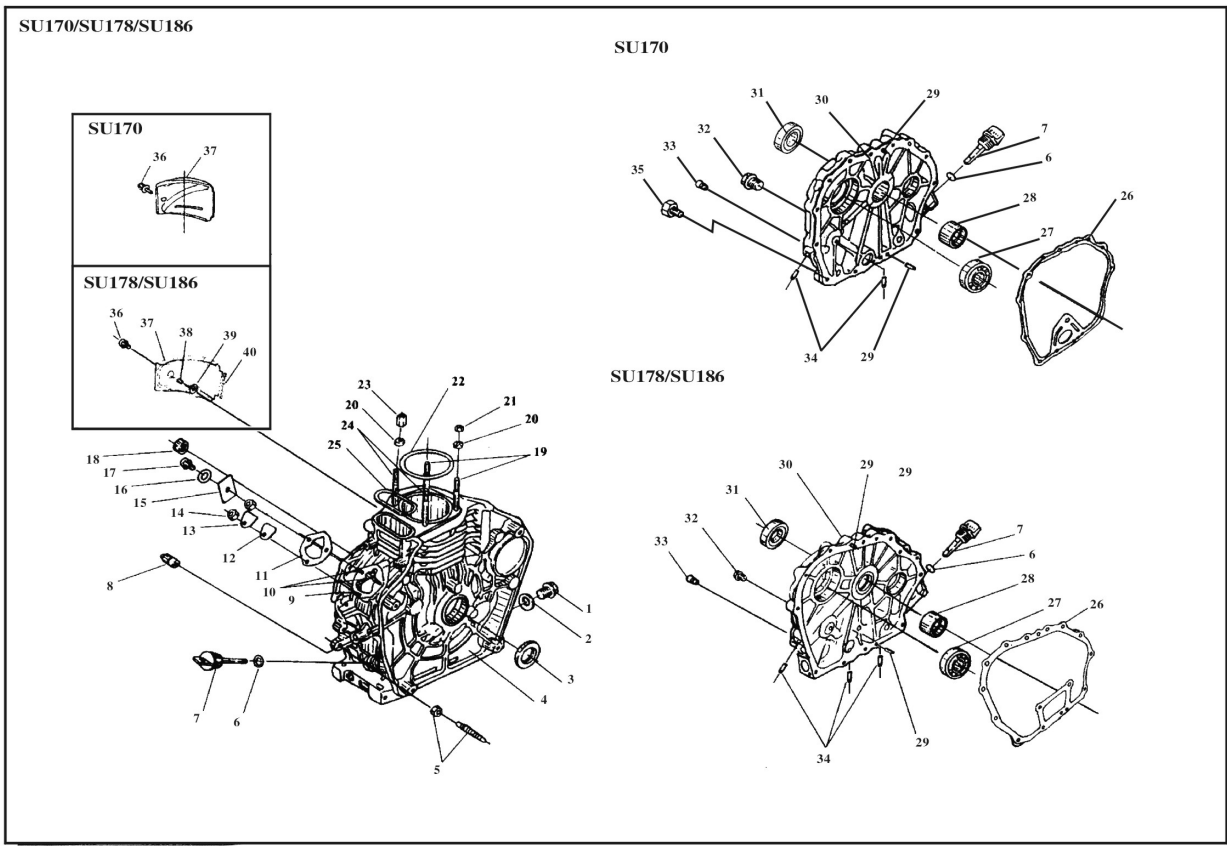
油封 SEALS

序号 NO.	编号			名称			英文名称			数量			
	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES			
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	
E	9701025	9701302	9701351	油封			Oil Seal			1			
F	9701301		9701351	SG25*42*10			SG25*42*10			SG25*45*10			1
				SG35*50*10			SG35*50*10						
L	7011008			油封			Oil Seal			1			
				SG30*45*8			SG30*45*8			SG35*50*10			
L	7011008			油封SG8*14*2.5			Oil Seal SG8*14*2.5			1			

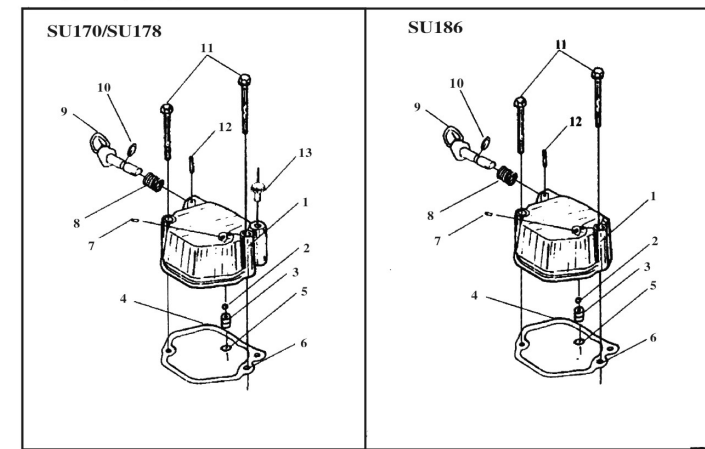
主要螺栓、螺母拧紧力矩一览表TORQUE FOR TIGHTEN UP MAIN SCREW BOLT AND NUT
单位：牛·米unit: N·m

序号 NO.	名称 Description	型号 Model	SU170	SU178	SU186
1	连杆螺母 Connecting rod nut		25~30		40~45
2	气缸盖螺母 Cylinder head nut		28~32	42~46	54~58
3	飞轮螺母 Fly wheel nut		120~130		130~150
4	喷油器压板螺母 Nozzle retainer		10~12		
5	摇臂座紧固螺栓 Tight screw bolt of Rocker support		20~22		43~47
6	标准M6螺栓 Standard M6 bolt		10~12		
7	标准M8螺栓 Standard M8 bolt		18~22		

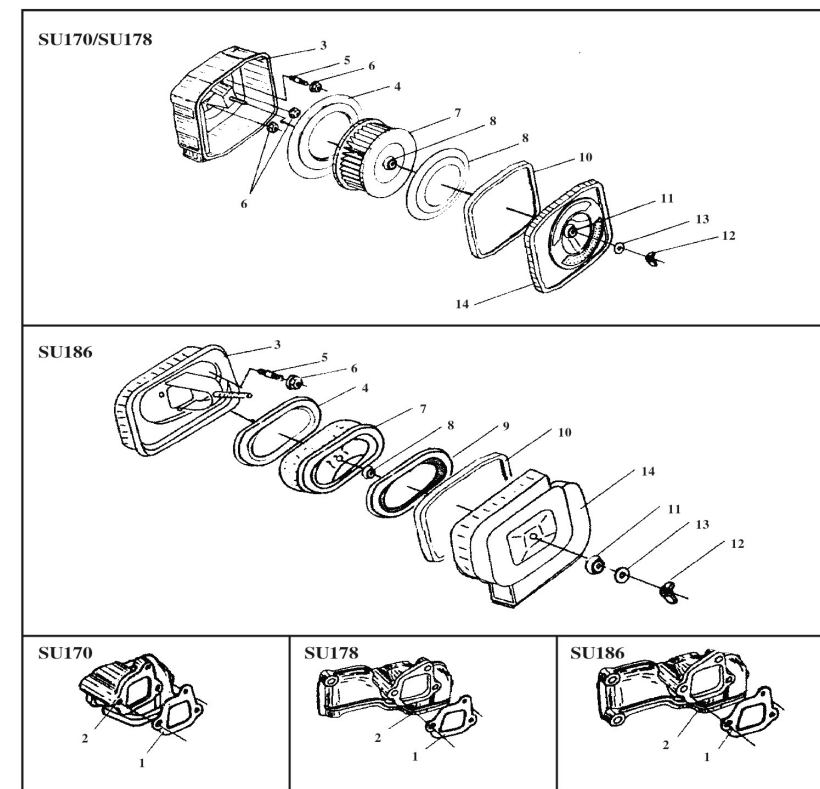
1 机体总成 CYLINDER BLOCK ASSEMBLY



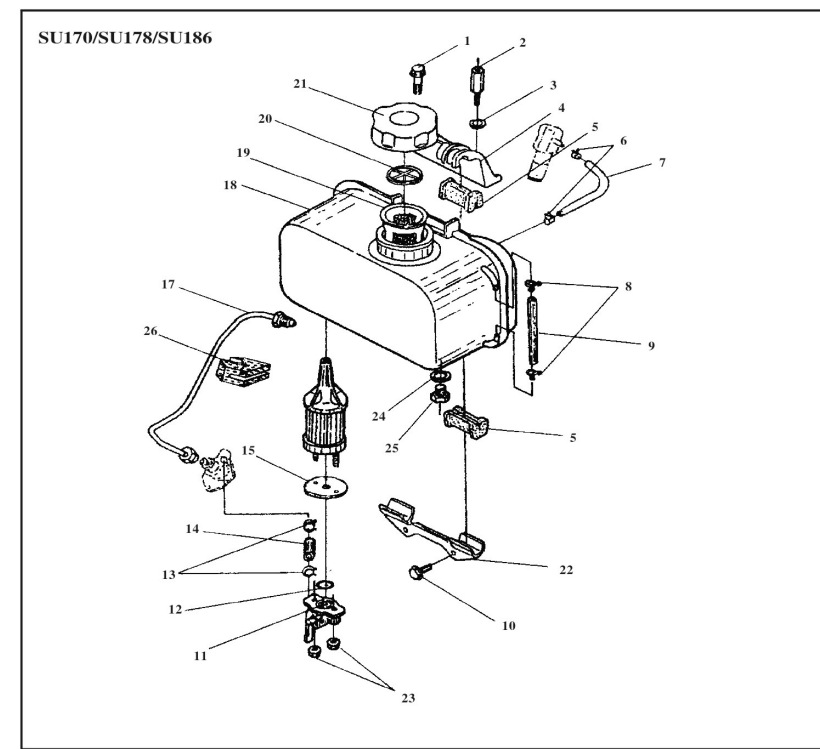
3 气缸盖罩总成 CYLINDER HEAD BONNET ASSEMBLY



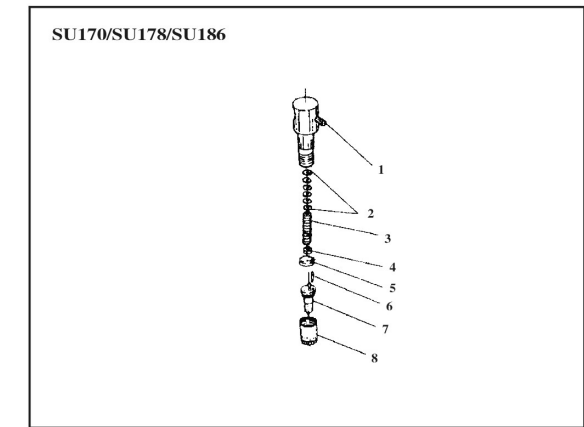
7 进气系统总成 AIR CLEANER ASSEMBLY



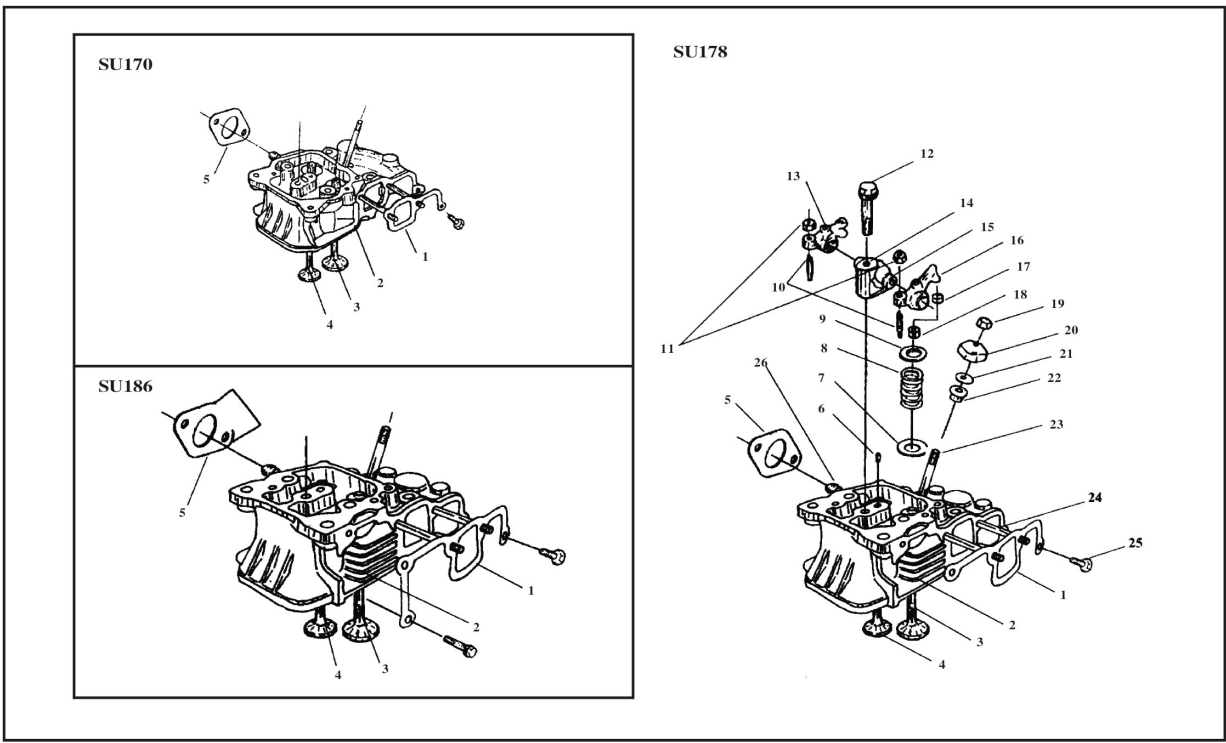
10 燃油系统 FUEL TANK & FUEL PIPE ASSEMBLY



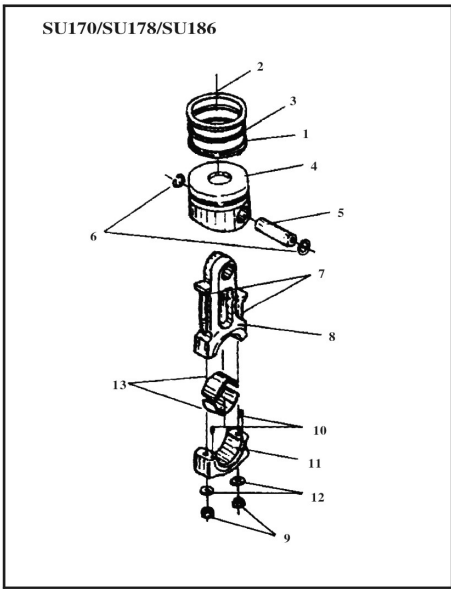
13 喷油器总成 FUEL NOZZLE ASSEMBLY



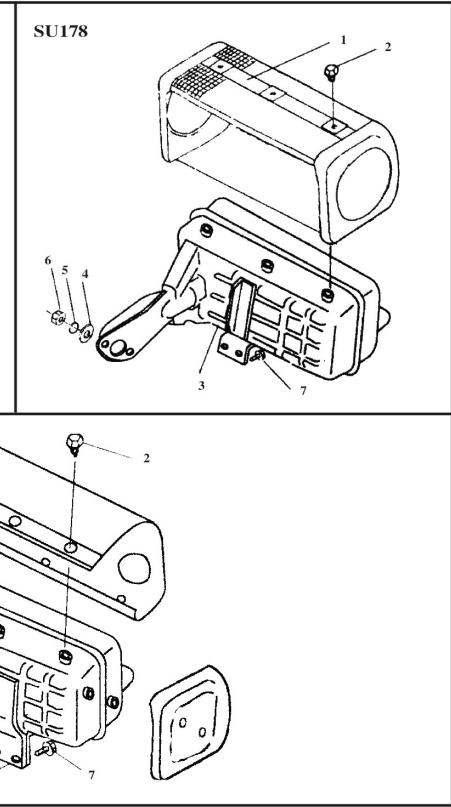
2 气缸盖总成 CYLINDER HEAD ASSEMBLY



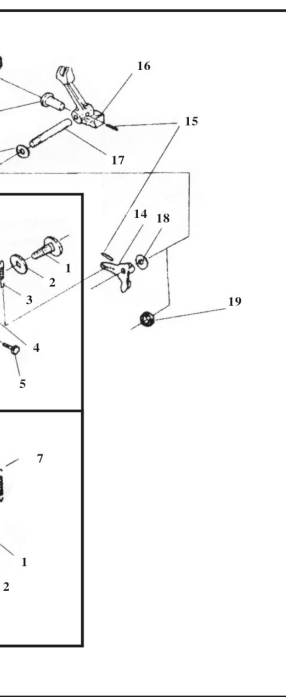
4 活塞连杆总成 PISTON & CONNECTING ROD ASSEMBLY



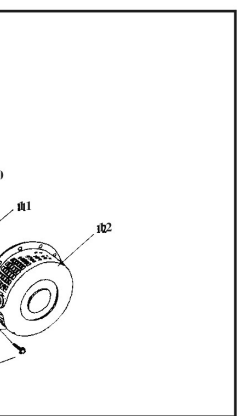
8 消声器总成 SILENCER ASSEMBLY



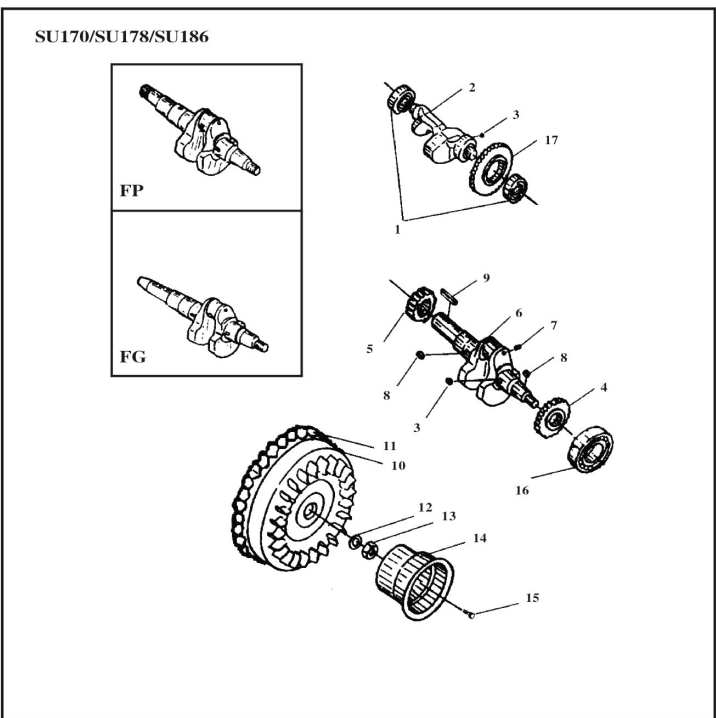
11 调速及操纵系统 GOVERNOR & CONTROL SYSTEM



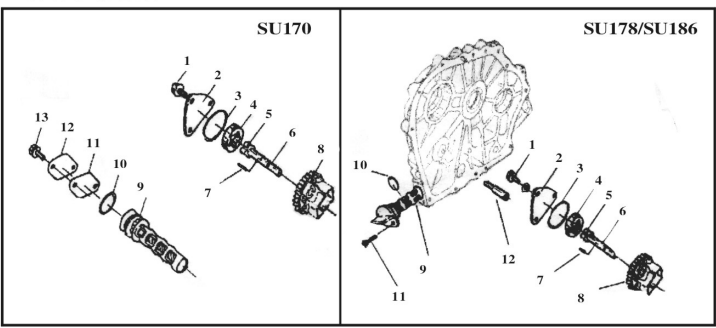
14 手拉启动总成 RECOIL STARTER ASSEMBLY



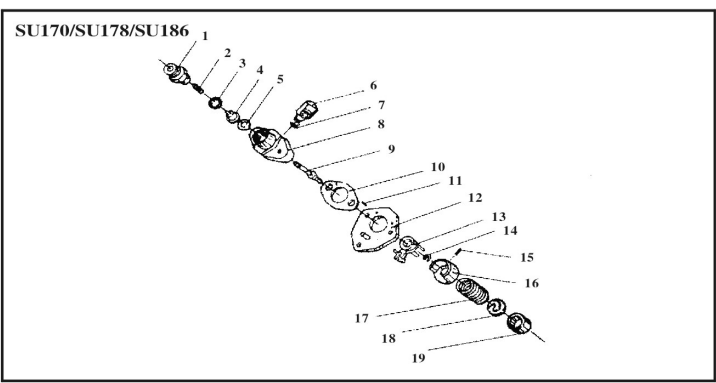
5 曲轴飞轮总成 CRANK SHAFT & FLYWHEEL ASSEMBLY



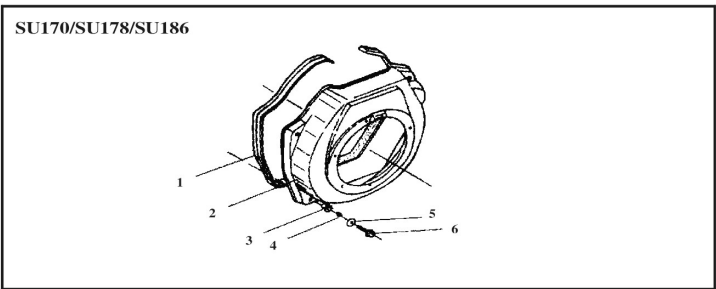
9 润滑系统总成 LUBE OIL SYSTEM



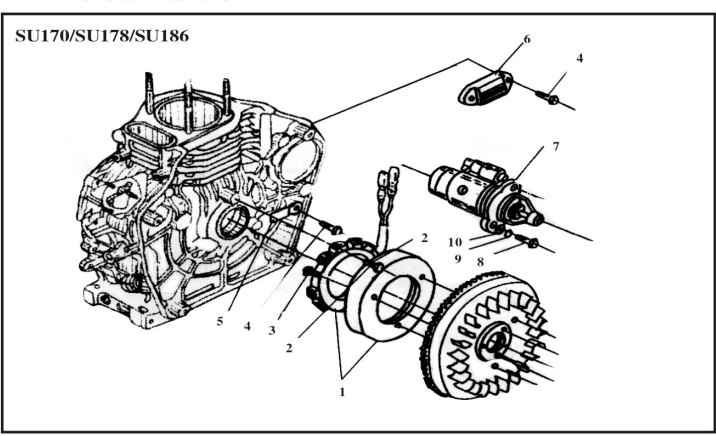
12 喷油泵总成 FUEL INJECTION PUMP ASSEMBLY



15 导风罩总成 COOLING DEVICE ASSEMBLY



16 起动机及发电机系统 STARTER & GENERATOR ASSEMBLY



1 机体总成 CYLINDER BLOCK ASSEMBLY

序号	编号			名称			英文名称			数量			
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES			
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	
1	7001017			放油螺塞			Drain Plug			1			
2	7001100			放油螺塞垫片			Oil Plug Seal/Assem			1			
3	8701301			8701351			8701351			1			
4	7001001	7801001	8601001	机体			Cylinder Block			1			
5	7011200			油盖控制臂部件			Fuel Controller Assem			1			
6	9702024			O形密封圈2*42.4			O-Ring2*42.4			2			
7	7001002	7801002		滤网			Oil Filter Cap			2			
8	9802008			滚针轴承7941/4			Needle Bearing7941/4			2			
9	7001012			喷油泵盖螺母（短）			Stud Plate(Short)			1			
10	7001011			喷油泵盖螺母（长）			Stud Plate(Long)			2			
11	7012001			喷油泵垫片			Fuel Injection Pump Gasket			When Necessary			
12	7012003			喷油泵密封垫片			Seal Gasket			1			
13	7012002			喷油泵密封板			Seal Plate			1			
14	9901061			异形螺母M6			Nut M6			3			
15	7001009			止推片			Retainer			1			
16	9903080			平垫圈8			Washer8			1			
17	9902081			螺栓M*12			Bolt M*12			1			
18	9802015			滚针轴承7941/1.5			Needle Bearing7941/1.5			1			
19	7001003	7801003	8601003	气缸盖螺栓（短）			Cylinder Head Stud(Short)			2			
20	7001007	7801007	8601007	气缸盖螺母垫圈			Cylinder Head Washer			4			
21	7001005	7801005	8601005	气缸盖螺母（短）			Cylinder Head Nut(Short)			2			
22	7001013	7801013	8601013	气缸盖垫片			Cylinder Head Gasket			1			
23	7001006	7801006	8601006	气缸盖螺母（长）			Cylinder Head Nut(Long)			2			
24	7001008	7801008	8601008	气缸盖螺母（短）			Cylinder Head Nut(Short)			2			
25	7001004	7801004	8601004	气缸盖螺母（长）			Cylinder Head Nut(Long)			2			
26	7001008			密封圈			Ring			1			
27	7001015	7801015	8601015	曲轴箱垫片			Crank Case Gasket			1			
28	7001008			曲轴箱垫片			Crank Case Gasket			1			
29	9801206	8601206	9901207	油封螺塞			Oil Sealing Plug			1			
30	7801014	7801014	8601014	油封螺塞			Oil Sealing Plug			1			
29	9905081			轴衬M12			PinM12			2			
30	7001016	7801016	8601016	曲轴箱盖			Crank Case Cover			1			
31	8701025	8701032	8701351	螺栓M*3.5			Bolt M*3.5			1			
32	9902089			螺栓M*3.5			Bolt M*3.5			15 16			
33	7001019			内六角螺母			Plug			1			
34	7001021			铝堵头8			Plunger8			2 3 3			
35	9902072	9902064			螺栓M*25			BoltM*25			14 1		
36	9902064			螺栓M*14			BoltM*14			1			
37	7001018	7801018	8601018	引风板			Air Gover			1			
38	7801502			引风板衬套			Air Gover Collar			1			
39	7801601			减震垫块			Shock Absorber			1			
40	7801603			减震垫条			Shock Absorber Seat			1			

5 曲轴飞轮总成 CRANK SHAFT & FLYWHEEL ASSEMBLY

序号	编号			名称			英文名称			数量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
1	9801202		9801203	平衡轴		平衡轴	Balance Shaft		Balance Shaft	2		
2	7005007	7805007	8805007	平衡轴			Balance Shaft		Key*7			
3		9904051		键*7			Key*7			2		
4	7005006	7805006	8805006	平衡轴传动齿轮			Balance Gear					
5	7005004	7805004	8805004	曲轴正时齿轮			Crank Shaft Timing Gear					
6	7005201	7805201	8805201	曲轴			Crank Shaft			1		
7		7005202		活塞			Piston					
8		9904052		键*12			Key*12			2	2	1
9			9904053	键*14			Key*14					
				滚子			Roller			1		
10	9904054		9904061	飞轮			Fly Wheel			1		
11	7005101	7805101	8805101	飞轮			Fly Wheel					
12	7005102	7805102	8805102	飞轮齿圈			Fly Wheel Gear					
13	7005003	8805003		飞轮螺母垫圈			Fly Wheel Nut Washer					
14	7005002	8805002		飞轮螺母			Fly Wheel Nut					
15	7005001	7805001	8805001	启动爪盘			Starter Pulley					
16		9902062		螺栓M*12			Bolt M*12			3	3	4
17	9801306	9801307	9801308	平衡轴			Balance Shaft					
18		7805009	8805009	平衡轴齿轮			Balance Gear					

10 燃油系统总成 FUEL TANK & FUEL PIPE ASSEMBLY

序号	编号			名称			英文名称			数量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
1	8902086			螺栓M*45			Bolt M*45			1		
2	7010003			油箱上支架螺母垫圈			Upper Stay Bolt			1		
3	9903080			平垫圈8			Washer8			1		
4	7010001	7810001	8610001	油箱上支架			Upper Stay			1		
5	7010002			油箱减震垫			Damper			2		
6	7010013			回油管卡箍			Clamp			2		
7	7010012			回油管			Fuel Oil Return Pipe			1		
8	7010005			回油管卡箍			Clamp			2		
9	7010006			回油管			Fuel Level Pipe			1		
10	9902064			螺栓M*14			Bolt M*14			2		
11	7010400			油箱开关体部件			Fuel Tank Check Assem			1		
12	9702132			O型密封圈13.2*1.8			O-Ring 13.2*1.8			1		
13	7010011			回油管卡箍			Clamp			2		
14	7010009			回油管			Fuel Oil Pipe			1		
15	7010007			柴油滤清器垫片			Fuel oil Filter Gasket			1		
16	7010300	7810300	8610300	柴油滤清器			Filter Element Assem			1		
17	7010500	7810500	8610500	高压油管组件			Fuel Injection Pipe Assem			1		
18	7010201	7810201	8610201	油箱燃油管部件			Fuel Tank Welded Assem			1		
19	7010004			柴油滤网杯			Fuel Oil Filter			1		
20	7010015			溢流			Fuel Level Mark			1		
21	7010100			油箱盖部件			Fuel Tank Cap Assem			1		
22	7010014			油箱下支架			Lower Stay Assem			1		
23	9901061			螺母M6			Nut M6			2		
24	7010016			油箱放油螺母垫片			Fuel Tank Oil Plug Seal Assem			1		
25	9902121			螺栓M12*1.25*14			Bolt M12*1.25*14			1		
26	8610017			减震支架			Fuel Injection Pipe Damper			1		

13 喷油器总成 FUEL NOZZLE ASSEMBLY

序	编 号			名 称			英 文 名 称			数 量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
1	7013200			喷油器壳体部件			Nozzle Holder Assem			1		
2	7013007			垫片			Shim Pack			按需要(Necessary)		
3	7013006			调压弹簧			Nozzle Spring			1		
4	7013005			顶杆			Spring Retainer			1		
5	7013003			中间体			Stop Plate			1		
6	7013004			定位销			Pin			2		
7	7013100		8613100	喷油嘴零件			Nozzle Valve			1		
8	7013002			喷油嘴罩帽			Nozzle Case Mut			1		

2 气缸盖总成 CYLINDER HEAD ASSEMBLY

序号	编号	名称	英文名称	数量		
NO	CODE	DESCRIPTION	DESCRIPTION	QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186
1	7002014	7002014	8602014	进气管垫片	Air Intake Gasket	1
2	7002000	7002000	8602000	气缸盖部件	Cylinder Head	1
3	7002003	7002003	8602003	进气门	Intake Valve	1
4	7002004	7002004	8602004	排气门	Exhaust Valve	1
5	7002015	7002015	8602015	进气门垫片	Intake Valve Gasket	1
6	9905041	9905041	8605041	销轴*4	Pin*4	1
7	7002007	7002007	8602007	气门弹簧罩圈	Valve Spring Washer	2
8	7002005	7002005	8602005	气门弹簧	Valve Spring	2
9	7002002	7002002	8602002	气门弹簧座	Spring Retainer	2
10	7002105	7002105	8602105	气门弹簧座	Valve Spring	1
11	9901060	9901060	8601060	螺母M6	Nut M6	2
12	7002106	7002106	8602106	气门弹簧座螺母	Rocker Arm Bolt	1
13	7002103	7002103	8602103	排气门	Exhaust Valve Rcker Arm	1
14	7002102	7002102	8602102	排气门	Rocker Arm Support	1
15	7002101	7002101	8602101	排气门	Rocker Arm Shaft	1
16	7002104	7002104	8602104	进气门	Intake Valve Rcker Arm	1
17	7002001	7002001	8602001	气门弹簧座	Valve Spring Retainer Plate	1
18	7002001	7002001	8602001	气门弹簧座	Valve	4
19	9901061	9901061	8601061	异型螺母M6	Nut M6	2
20	7002009	7002009	8602009	涡轮增压板	Nozzle Retainer	1
21	7002018	7002018	8602018	隔套垫片	Spacer Washer	1
22	7002011	7002011	8602011	隔套	Spacer	1
23	9902061	9902061	8602061	螺栓M*8	Bolt M*8	2
24	9909081	9909084	8609081	螺栓M*8	Stud M8*20	2
25	9902070	9902070	8602070	螺栓M*8	Bolt M*8	1
26	9909081	9909081	8609081	螺栓M*8	Stud M8*20	2

6 凸轮轴总成 CAMSHAFT ASSEMBLY

序号	编号			名称			英文名称			数量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
1	7006100	7806100	8506100	气门导管部件			Valve Rod Assem			2		
2	7006005		8506003	气门导管			Valve Tappet			2		
3	7006002	7806002	8506002	凸轮轴正时齿轮			Camshaft Timing Gear			1		
4	9904053	9904041	9904053	螺栓			Bolt			1		
5	7006001	7806001	8506001	凸轮轴			Camshaft			1		

7 进气系统总成 AIR CLEANER ASSEMBLY

序号	编号			名称			英文名称			数量		
NO	CODE			DESCRIPTION			DESCRIPTION			QUANTITIES		
	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186	SU170	SU178	SU186
1	7007001		8607001	空气滤清器			Air Cleaner Gasket			1		
2	7007401	7807401	8607401	进气管			Intake Pipe			1		
3	7007300		8607300	空气滤清器壳底部部分			Air Cleaner Bottom Case Washer			1		
4	7007305		8607305	防震垫圈 II			Shock Absorber Washer II			1		
5	7007402		8607402	空气滤清器壳螺栓			Air Cleaner Element Bolt			1		
6	9901061			异形螺母M6			Nut M6			3		
7	7007100		8607100	空气滤清器芯体			Air Cleaner Element Assem			1		
8	7007101		8607101	滤芯密封垫圈			Air Cleaner Element Shock Absorber			1		
9	7007203		8607203	防震垫圈 I			Shock Absorber Washer I			1		
10	7007201		8607201	密封圈			Ring			1		
11	7007211		8607211	空气滤清器芯体			Air Cleaner Shock Absorber			1		
12	7007307		8607307	平垫圈			Washer			1		
13	9903080		9903080	平垫圈8			Washer8			1		
14	7007200		8607200	空气滤清器壳底部部分			Air Cleaner Cover Assem			1		

11 调速及操纵系统 GOVERNOR&CONTROL SYSTEM

NO	编号		名称		英文名称		数量	
	CODE		DESCRIPTION		DESCRIPTION		QUANTITIES	
	SU170	SU178	SU170	SU178	SU170	SU178	SU170	SU178
1	7011401		调速手柄轴		Governor Handle Shaft		1	
2	7011402		调速手柄齿		Governor Handle Shaft Washer		2	
3	7011006	7011009	调速弹簧		Governor Spring		1	
4	7011005		调速弹簧 II		Return Spring II		1	
5	7011406		高速限位螺钉		High Speed Limit Screw		1	
6	9901060		螺母 M6		Nut M6		1	
7	9902064		螺栓 M*14		Bolt M*14		1	
8	9902069		螺栓 M*20		Bolt M*20		1	
9	9901010		螺栓 M1*1.25		Nut M1*1.25		1	
10	7011407		调速手柄		Govt-Shape Gover		1	
11	7011405		调速手柄		Govt-Shape Gover		1	
12	7011404		调速手柄支架		Handle Bracket		1	
13	7011403		调速手柄		Governor Handle		1	
14	7011110		调速手柄垫片		Governor Lever Washer Part		1	
15	9700022		调速手柄		Pin*22		2	
16	7011601	7811901	调速手柄	调速手柄	Lever Fork		1	1
17	7011102		棘杆轴		Lever Shaft		1	
18	7011013		调速杆棘轮轴套		Governor Lever Washer		1	
19	7011008		油杯 1.4*2.5		Seal* 1.4*2.5		1	
20	7011004		调速弹簧		Spring		1	
21	7011001		调速手柄		Fly Block		1	
22	7011002		飞锤		Fly Block Pin		2	