

**SJ15H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	465264001	1	O RING	○	○	○
	104	450553005	2	DRAIN NOZZLE	○	○	○
	107	463591002	1	O RING	○	○	○
	114	A30067B	1	O RING	○	○	○
	116	465266001	1	O RING	○	○	○
	117	465270001	1	O RING	○	○	○
	118	463595001	1	MAIN SEAL RING	○	○	○
	126	A10011F	4	O RING	○	○	
	127	A42017F	4	O RING	○	○	
	129	A42017F	2	O RING	○	○	
	130	436000001	2	VALVE SHEET	○	○	
	131	A41013F	2	O RING	○	○	
	132	450489001	2	VALVE NUT			○
		PVG10	2	PILOT VALVE ASSY			○
	133	463593001	1	PACKING	○	○	○
123	463602001	1	BOWL BUSH			○	
Frame	227	A10028A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20425A	1	O RING	○	○	○
	310	A20100A	1	O RING	○	○	○
	311	A10034A	1	O RING	○	○	○
	315	A10024A	2	O RING	○	○	○
	318	A10016A	1	O RING	○	○	○
	323	A10031A	1	O RING	○	○	○
	325	L03802815	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L03002215	1	GASKET	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20130A	2	O RING		○	○
	517	A20030A	1	O RING		○	○
	519	A20030A	1	O RING		○	○
	502	J3007C0	1	LOCK WASHER			○
	503	J2007C0	1	LOCK NUT			○
	507	450523001	6	SPRING CASE			○
	508	411981001	6(1set)	UPPER SPRING			○
	511	I16207J8	1	BALL BEARING			○
	520	463617001	1	FLAT SPRING			○
	529	I42304J1	1	BEARING (2)			○
	532	I27304J2	1	BALL BEARING (3)			○
	534	463619001	1	SPACER (2)			○
	535	463620001	1	SPRING SEAT			○
	536	J1016J0	1	STEEL BALL			○
539	463959001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2006C0	1	LOCK NUT		○	○
	605	J3006C0	1	LOCK WASHER		○	○
	609	K1406211A	1	OIL SEAL		○	○
	625	K1406211A	1	OIL SEAL		○	○
	610	A20275A	1	O RING		○	○
	621	362591105	60Hz 3	FRICTION CLUTCH		○	○
	624	A20130A	1	O RING		○	○
602	I16306J1	2	BALL BEARING (1)			○	
Water Supplying Devise	704	F6005020B	3	SOCKET CAP SCREW	○	○	○
	707	H5004B2	4	TONGUED WASHER	○	○	○
	708	464854001	2	O RING	○	○	○
	711	463626001	1	PACKING	○	○	○

**SJ25H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	465264001	1	O RING	○	○	○
	104	450553005	2	DRAIN NOZZLE	○	○	○
	107	463596002	1	O RING	○	○	○
	114	A30070B	1	O RING	○	○	○
	116	465267001	1	O RING	○	○	○
	117	465271001	1	O RING	○	○	○
	118	463598001	1	MAIN SEAL RING	○	○	○
	126	A10011F	4	O RING	○	○	
	127	A42017F	4	O RING	○	○	
	129	A42017F	2	O RING	○	○	
	130	436000001	2	VALVE SHEET	○	○	
	131	A41013F	2	O RING	○	○	
	132	450489001	2	VALVE NUT			○
		PVG10	2	PILOT VALVE ASSY			○
	133	455812001	1	PACKING	○	○	○
123	463602001	1	BOWL BUSH			○	
Frame	227	A10028A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20425A	1	O RING	○	○	○
	310	A20100A	1	O RING	○	○	○
	311	A10034A	1	O RING	○	○	○
	315	A10024A	2	O RING	○	○	○
	318	A10016A	1	O RING	○	○	○
	323	A10031A	1	O RING	○	○	○
	325	L03802815	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L03002215	1	GASKET	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20130A	2	O RING		○	○
	517	A20030A	1	O RING		○	○
	519	A20030A	1	O RING		○	○
	502	J3007C0	1	LOCK WASHER			○
	503	J2007C0	1	LOCK NUT			○
	507	450523001	6	SPRING CASE			○
	508	411981001	6(1set)	UPPER SPRING			○
	511	I16207J8	1	BALL BEARING			○
	520	463617001	1	FLAT SPRING			○
	529	I42304J1	1	BEARING (2)			○
	532	I27304J2	1	BALL BEARING (3)			○
	534	463619001	1	SPACER (2)			○
	535	463620001	1	SPRING SEAT			○
	536	J1016J0	1	STEEL BALL			○
539	463959001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2006C0	1	LOCK NUT		○	○
	605	J3006C0	1	LOCK WASHER		○	○
	609	K1406211A	1	OIL SEAL		○	○
	625	K1406211A	1	OIL SEAL		○	○
	610	A20275A	1	O RING		○	○
	621	362591105	60Hz 3	FRICTION CLUTCH		○	○
	624	A20130A	1	O RING		○	○
602	I16306J1	2	BALL BEARING (1)			○	
Water Supplying Devise	704	F6005020B	3	SOCKET CAP SCREW	○	○	○
	707	H5004B2	4	TONGUED WASHER	○	○	○
	708	464854001	2	O RING	○	○	○
	711	463626001	1	PACKING	○	○	○

**SJ35H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	465264001	1	O RING	○	○	○
	104	450553005	2	DRAIN NOZZLE	○	○	○
	107	463599002	1	O RING	○	○	○
	114	A30070B	1	O RING	○	○	○
	116	465267001	1	O RING	○	○	○
	117	465272001	1	O RING	○	○	○
	118	463601001	1	MAIN SEAL RING	○	○	○
	126	A10011F	4	O RING	○	○	
	127	A42017F	4	O RING	○	○	
	129	A42017F	2	O RING	○	○	
	130	436000001	2	VALVE SHEET	○	○	
	131	A41013F	2	O RING	○	○	
	132	450489001	2	VALVE NUT			○
		PVG10	2	PILOT VALVE ASSY			○
	133	455812001	1	PACKING	○	○	○
123	463602001	1	BOWL BUSH			○	
Frame	227	A10028A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20455A	1	O RING	○	○	○
	310	A20100A	1	O RING	○	○	○
	311	A10034A	1	O RING	○	○	○
	315	A10024A	2	O RING	○	○	○
	318	A10016A	1	O RING	○	○	○
	323	A10031A	1	O RING	○	○	○
	325	L03802815	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L03002215	1	GASKET	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20130A	2	O RING		○	○
	517	A20030A	1	O RING		○	○
	519	A20030A	1	O RING		○	○
	502	J3007C0	1	LOCK WASHER			○
	503	J2007C0	1	LOCK NUT			○
	507	450523001	6	SPRING CASE			○
	508	411981001	6(1set)	UPPER SPRING			○
	511	I16207J8	1	BALL BEARING			○
	520	463617001	1	FLAT SPRING			○
	529	I42304J1	1	BEARING (2)			○
	532	I27304J2	1	BALL BEARING (3)			○
	534	463619001	1	SPACER (2)			○
	535	463620001	1	SPRING SEAT			○
	536	J1016J0	1	STEEL BALL			○
539	463959001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2006C0	1	LOCK NUT		○	○
	605	J3006C0	1	LOCK WASHER		○	○
	609	K1406211A	1	OIL SEAL		○	○
	625	K1406211A	1	OIL SEAL		○	○
	610	A20275A	1	O RING		○	○
	621	362591105	60Hz 4	FRICTION CLUTCH		○	○
	624	A20130A	1	O RING		○	○
602	I16306J1	2	BALL BEARING (1)			○	
Water Supplying Devise	704	F6005020B	3	SOCKET CAP SCREW	○	○	○
	707	H5004B2	4	TONGUED WASHER	○	○	○
	708	464854001	2	O RING	○	○	○
	711	463626001	1	PACKING	○	○	○

**SJ60H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	465265001	1	O RING	○	○	○
	104	450553005	2	DRAIN NOZZLE	○	○	○
	107	463638002	1	O RING	○	○	○
	114	A30100B	1	O RING	○	○	○
	116	465268001	1	O RING	○	○	○
	117	465273001	1	O RING	○	○	○
	118	463641001	1	MAIN SEAL RING	○	○	○
	126	A10011F	4	O RING	○	○	
	127	A42017F	4	O RING	○	○	
	129	A42017F	2	O RING	○	○	
	130	436000001	2	VALVE SHEET	○	○	
	131	A41013F	2	O RING	○	○	
	132	450489001	2	VALVE NUT			○
		PVG50	2	PILOT VALVE ASSY			○
	133	455808001	1	PACKING	○	○	○
123	463643001	1	BOWL BUSH			○	
Frame	227	A10034A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20565A	1	O RING	○	○	○
	310	A20120A	1	O RING	○	○	○
	311	A20045A	1	O RING	○	○	○
	315	A10032A	2	O RING	○	○	○
	318	A10015A	1	O RING	○	○	○
	323	A10044A	1	O RING	○	○	○
	325	L04403215	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L04003215	1	GASKET	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20160A	2	O RING		○	○
	517	A20040A	2	O RING		○	○
	519	A20040A	2	O RING		○	○
	502	J3009C0	1	LOCK WASHER			○
	503	J2009C0	1	LOCK NUT			○
	507	450631001	6	SPRING CASE			○
	508	411984001	6(1set)	UPPER SPRING			○
	511	I16209J8	1	BALL BEARING			○
	520	436164001	1	FLAT SPRING			○
	529	I42306J1	1	BEARING (2)			○
	532	I27306J2	1	BALL BEARING (3)			○
	534	463780001	1	SPACER (2)			○
	535	436305001	1	SPRING SEAT			○
	536	J1020J0	1	STEEL BALL			○
539	409646001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2007C0	1	LOCK NUT		○	○
	605	J3007C0	1	LOCK WASHER		○	○
	609	K1456510A	1	OIL SEAL		○	○
	625	K1456510A	1	OIL SEAL		○	○
	610	A20275A	1	O RING		○	○
	621	362592105	60Hz 3	FRICTION CLUTCH		○	○
	624	A20135A	1	O RING		○	○
602	I16307J1	2	BALL BEARING (1)			○	
Water Supplying Devise	704	F6005020B	3	SOCKET CAP SCREW	○	○	○
	707	H5005B2	4	TONGUED WASHER	○	○	○
	708	464855001	2	O RING	○	○	○
	711	463786001	1	PACKING	○	○	○

**SJ85H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	465265001	1	O RING	○	○	○
	104	450553005	2	DRAIN NOZZLE	○	○	○
	107	463655002	1	O RING	○	○	○
	114	A30100B	1	O RING	○	○	○
	116	465268001	1	O RING	○	○	○
	117	465274001	1	O RING	○	○	○
	118	463657001	1	MAIN SEAL RING	○	○	○
	126	A10011F	4	O RING	○	○	
	127	A42017F	4	O RING	○	○	
	129	A42017F	2	O RING	○	○	
	130	436000001	2	VALVE SHEET	○	○	
	131	A41013F	2	O RING	○	○	
	132	450489001	2	VALVE NUT			○
		PVG50	2	PILOT VALVE ASSY			○
	133	455808001	1	PACKING	○	○	○
123	463643001	1	BOWL BUSH			○	
Frame	227	A10034A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20565A	1	O RING	○	○	○
	310	A20120A	1	O RING	○	○	○
	311	A20045A	1	O RING	○	○	○
	315	A10032A	2	O RING	○	○	○
	318	A10015A	1	O RING	○	○	○
	323	A10044A	1	O RING	○	○	○
	325	L04403215	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L04003215	1	GASKET	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20160A	2	O RING		○	○
	517	A20040A	2	O RING		○	○
	519	A20040A	2	O RING		○	○
	502	J3009C0	1	LOCK WASHER			○
	503	J2009C0	1	LOCK NUT			○
	507	450631001	6	SPRING CASE			○
	508	411984001	6(1set)	UPPER SPRING			○
	511	I16209J8	1	BALL BEARING			○
	520	436164001	1	FLAT SPRING			○
	529	I42306J1	1	BEARING (2)			○
	532	I27306J2	1	BALL BEARING (3)			○
	534	463780001	1	SPACER (2)			○
	535	436305001	1	SPRING SEAT			○
	536	J1020J0	1	STEEL BALL			○
539	409646001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2007C0	1	LOCK NUT		○	○
	605	J3007C0	1	LOCK WASHER		○	○
	609	K1456510A	1	OIL SEAL		○	○
	625	K1456510A	1	OIL SEAL		○	○
	610	A20275A	1	O RING		○	○
	621	362592105	60Hz 3	FRICTION CLUTCH		○	○
	624	A20135A	1	O RING		○	○
602	I16307J1	2	BALL BEARING (1)			○	
Water Supplying Devise	704	F6005020B	3	SOCKET CAP SCREW	○	○	○
	707	H5005B2	4	TONGUED WASHER	○	○	○
	708	464855001	2	O RING	○	○	○
	711	463786001	1	PACKING	○	○	○

**SJ110H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	455871002	1	O RING	○	○	○
	104	450553002	2	DRAIN NOZZLE	○	○	○
	107	463751002	1	O RING	○	○	○
	114	A30130B	1	O RING	○	○	○
	116	465269001	1	O RING	○	○	○
	117	465275001	1	O RING	○	○	○
	118	463754001	1	MAIN SEAL RING	○	○	○
	126	A11205F	4	O RING	○	○	
	127	A42019F	4	O RING	○	○	
	129	A42019F	2	O RING	○	○	
	130	436385001	2	VALVE SHEET	○	○	
	131	A41014F	2	O RING	○	○	
	132	455819001	2	VALVE NUT			○
		PVA100	2	PILOT VALVE ASSY			○
	133	455888001	1	PACKING	○	○	○
123	463755001	1	BOWL BUSH			○	
Frame	227	A10048A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20680A	1	O RING	○	○	○
	310	A20135A	1	O RING	○	○	○
	311	A20058A	1	O RING	○	○	○
	315	A10045A	2	O RING	○	○	○
	318	A10015A	1	O RING	○	○	○
	323	A80227A	1	O RING	○	○	○
	325	L06004215	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L05004015	1	GASKET(HSH)	○	○	○
		L04003215	1	GASKET(HBC/MANUA)	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20200A	2	O RING		○	○
	517	A80228A	2	O RING		○	○
	519	A80228A	2	O RING		○	○
	502	J3012C0	1	LOCK WASHER			○
	503	J2012C0	1	LOCK NUT			○
	507	450637001	6	SPRING CASE			○
	508	411985001	6(1set)	UPPER SPRING			○
	511	I16212J8	1	BALL BEARING			○
	520	314587001	1	FLAT SPRING			○
	529	I42307J1	1	BEARING (2)			○
	532	I27307J2	1	BALL BEARING (3)			○
	534	436494001	1	SPACER (2)			○
	535	436305001	1	SPRING SEAT			○
	536	J1020J0	1	STEEL BALL			○
539	409646001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2008C0	1	LOCK NUT		○	○
	605	J3008C0	1	LOCK WASHER		○	○
	609	K1507010A	1	OIL SEAL		○	○
	625	K1507010A	1	OIL SEAL		○	○
	610	A20270A	1	O RING		○	○
	621	362593105	60Hz 3	FRICTION CLUTCH		○	○
	624	A20145A	1	O RING		○	○
	602	I16308J1	2	BALL BEARING (1)			○
Water Supplying Devise	704	F6006020B	3	SOCKET CAP SCREW	○	○	○
	707	H5005B2	4	TONGUED WASHER	○	○	○
	708	464856001	2	O RING	○	○	○
	711	463797001	1	PACKING	○	○	○

**SJ160H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	455871002	1	O RING	○	○	○
	104	450553002	2	DRAIN NOZZLE	○	○	○
	107	463757002	1	O RING	○	○	○
	114	A30130B	1	O RING	○	○	○
	116	465269001	1	O RING	○	○	○
	117	465276001	1	O RING	○	○	○
	118	463759001	1	MAIN SEAL RING	○	○	○
	126	A11205F	4	O RING	○	○	
	127	A42019F	4	O RING	○	○	
	129	A42019F	2	O RING	○	○	
	130	436385001	2	VALVE SHEET	○	○	
	131	A41014F	2	O RING	○	○	
	132	455819001	2	VALVE NUT			○
		PVA100	2	PILOT VALVE ASSY			○
	133	455888001	1	PACKING	○	○	○
123	436396001	1	BOWL BUSH			○	
Frame	227	A10048A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20740A	1	O RING	○	○	○
	310	A20135A	1	O RING	○	○	○
	311	A20058A	1	O RING	○	○	○
	315	A10045A	2	O RING	○	○	○
	318	A10015A	1	O RING	○	○	○
	323	A80227A	1	O RING	○	○	○
	325	L06004215	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L05004015	1	GASKET	○	○	○
	209	455820001	1	GASKET		○	○
Vertical Shaft	505	A20200A	2	O RING		○	○
	517	A30060B	2	O RING		○	○
	519	A30060B	2	O RING		○	○
	502	J3014C0	1	LOCK WASHER			○
	503	J2012C0	1	LOCK NUT			○
	507	450637001	9	SPRING CASE			○
	508	411985S01	9(1set)	UPPER SPRING			○
	511	I16214JA	1	BALL BEARING			○
	520	314587001	1	FLAT SPRING			○
	529	I42308J1	1	BEARING (2)			○
	532	I27308J2	1	BALL BEARING (3)			○
	535	436401001	1	SPRING SEAT			○
	534	450056001	1	SPACER (2)			○
	536	J1020J0	1	STEEL BALL			○
	539	409720001	1	LOWER SPRING			○
	604	J2008C0	1	LOCK NUT		○	○
	605	J3008C0	1	LOCK WASHER		○	○
	609	K1507010A	1	OIL SEAL		○	○
	625	K1507010A	1	OIL SEAL		○	○
	Horizontal Shaft	610	A20270A	1	O RING		○
621		362593105	60Hz 3	FRICTION CLUTCH		○	○
624		A20145A	1	O RING		○	○
602		I16308J1	2	BALL BEARING (1)			○
704		F6006020B	3	SOCKET CAP SCREW	○	○	○
707		H5005B2	4	TONGUED WASHER	○	○	○
Water Supplying Devise	708	464857001	2	O RING	○	○	○
	711	436406001	1	PACKING	○	○	○

**SJ220H Overhaul kit**

Pos.	Pos. No.	Pats Number	Quantity	Name	4000hrs	8000hrs	16000hrs
Bowl	102	455871002	1	O RING	○	○	○
	104	450553002	2	DRAIN NOZZLE	○	○	○
	107	463838002	1	O RING	○	○	○
	114	A30130B	1	O RING	○	○	○
	116	465269001	1	O RING	○	○	○
	117	AB0465B	1	O RING	○	○	○
	118	463839001	1	MAIN SEAL RING	○	○	○
	126	A11205F	4	O RING	○	○	
	127	A42019F	4	O RING	○	○	
	129	A42019F	2	O RING	○	○	
	130	436385001	2	VALVE SHEET	○	○	
	131	A41014F	2	O RING	○	○	
	132	455819001	2	VALVE NUT			○
		PVA100	2	PILOT VALVE ASSY			○
	133	455888001	1	PACKING	○	○	○
123	436396001	1	BOWL BUSH			○	
Frame	227	A10048A	2	O RING	○	○	○
	333	A10028A	1	O RING	○	○	○
	303	A20740A	1	O RING	○	○	○
	310	A20135A	1	O RING	○	○	○
	311	A20058A	1	O RING	○	○	○
	315	A10045A	2	O RING	○	○	○
	318	A10015A	1	O RING	○	○	○
	323	A80227A	1	O RING	○	○	○
	325	L06004215	2	GASKET	○	○	○
	329	L03802815	1	GASKET	○	○	○
	419	L05004015	1	GASKET	○	○	○
209	455820001	1	GASKET		○	○	
Vertical Shaft	505	A20200A	2	O RING		○	○
	517	A30060B	2	O RING		○	○
	519	A30060B	2	O RING		○	○
	502	J3014C0	1	LOCK WASHER			○
	503	J2012C0	1	LOCK NUT			○
	507	450637001	9	SPRING CASE			○
	508	411985S01	9(1set)	UPPER SPRING			○
	511	I16214JA	1	BALL BEARING			○
	520	314587001	1	FLAT SPRING			○
	529	I42308J1	1	BEARING (2)			○
	532	I27308J2	1	BALL BEARING (3)			○
	535	436401001	1	SPRING SEAT			○
	534	450056001	1	SPACER (2)			○
	536	J1020J0	1	STEEL BALL			○
539	409720001	1	LOWER SPRING			○	
Horizontal Shaft	604	J2008C0	1	LOCK NUT		○	○
	605	J3008C0	1	LOCK WASHER		○	○
	609	K1507010A	1	OIL SEAL		○	○
	625	K1507010A	1	OIL SEAL		○	○
	610	A20270A	1	O RING		○	○
	621	362593105	60Hz 3	FRICTION CLUTCH		○	○
	624	A20145A	1	O RING		○	○
602	I16308J1	2	BALL BEARING (1)			○	
Water Supplying Devise	704	F6006020B	3	SOCKET CAP SCREW	○	○	○
	707	H5005B2	4	TONGUED WASHER	○	○	○
	708	464857001	2	O RING	○	○	○
	711	436406001	1	PACKING	○	○	○