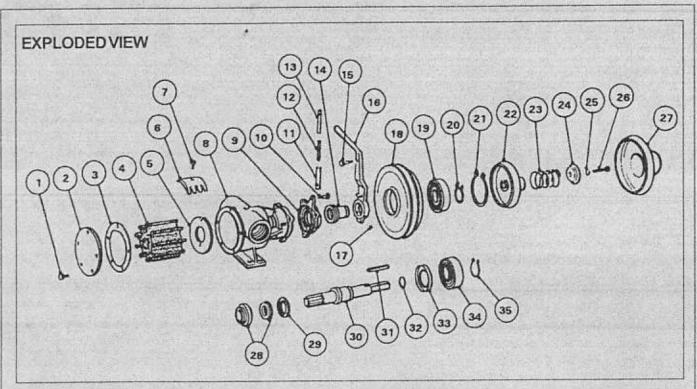


## 51080/51200 SERIES



### **51080 SERIES**

ŒY	DESCRIPTION	QTY	PARTNUMBER
1	Endcover Screws*	6	X3001-147F
2	Endcover	1	3993
3	Gasket*	1	890
4	Neoprene Impeller*	123	17937-0001
	or Nitrile Impeller**	1	17937-0003
5	Wearplate	1	4156
6	Cam	1	934
7	Cam Screw	1	SP1004-09
8	Body	1	50084-2100
9	Engaging Mech/Housing	10	51081-0000
10	Bolt	3	X3001-178F
11	Guide Tube Outer	1	51089-0000
12	Spring	1	51093-0000
13	Guide Tube Inner	1	51088-0000
14	Engaging Mech/Sleeve	1	51082-0000
15	Retaining Bolt	1	51094-0000
16	Handle	1	51083-0000
17	Grub Screw	2	X3009-145F
18	Pulley	1	51084-0000
19	Bearing	1	SP2600-11
20	Retaining Ring	1	SP1700-137
21	Retaining Ring	1	SP1700-245
22	Clutch Cone	1	51085-0000
23	Spring	1	X5250-001
24	Spring Retainer	1	51086-0000
25	Spring Washer	1	X3081-101C
26	Screw	1	X3001-211F
27	Cover	1	51092-0000
28	Lip Seal (not illustrated)		SP2700-1027
29	Slinger	1	3180
30	Shaft	1	51087-0000
31	Key	1	X4000-209A
32	Shim	1	51091-0000
33	Inner Bearing Seal	1	SP2700-48
34	Bearing	1	SP2600-06
35	Retaining Ring	1	SP1700-247

#### Service KU SK406-0001 contains parts marked\* Service Kit SK405-0003 contains parts marked\* plus \*\* in place of tveoprene Impelle

#### **51200 SERIES**

ŒY	DESCRIPTION	QTY	PARTNUMBER
1	Endcover Screws*	5	X3001-176F
2	Endcover	1	9336
3	Gasket*	t t	816
4	Neoprene Impeller*	1	17935-0001
	Nitrile Impeller**	1	836-0003
5	Wearplate	1	2574
6	Cam	1	834
7	Carn Screw	1	SP1005-04
8	Body	1	50204-2100
9	Engaging Mech/Housing	1	51201-0000
10	Bott	3	X3001-180F
11	Guide Tube Outer		51089-0000
12	Spring	1	51213-0000
13	Guide Tube Inner	1	51088-0000
14	Engaging Mech/Sleeve		51202-0000
15	Retaining Bolt	100	51094-0000
16	Handle	1	51203-0000
17	Grub Screw	2	X3009-172F
18	Pulley	1	51204-0000
19	Bearing	1	SP2600-09
20	Retaining Ring	1	SP1700-137
21	Retaining Ring	1	SP1700-245
22	Clutch Cone	1	51205-0000
23	Spring	1	X5250-002
24	Spring Retainer		51206-0000
25	Spring Washer	1	X3061-101C
26	Screw	1	X3001-213F
27	Cover		51212-0000
28	Seal Assembly*	1	21849
29	Slinger	1	3181
30	Shaft	1	51207-0000
31	Key	1 1	X4000-270A
32	Shim	1	51211-0000
33	Inner Bearing Seal	1	SP2700-50
34	Bearing	1 1	SP2600-04
35	Retaining Ring	1	SP1700-245

Service Kit SK407-0011 contains parts marked\*

Service Kit SK407-0003 contains parts marked" plus \*\* in place of Neoprene impeller

# JABSCO

## 51080/51200 SERIES

#### Inspectall parts for wear or damage and replace if necessary.

#### DIS-ASSEMBLY-CLUTCH

- 1. Remove snap-on cover.
- Unscrew spring retaining bolt at end of shaft. Remove retainer, spring and clutch cone. Note: Bolt is assembled with Loctite.
- 3. Remove one retaining bolt from guide tube assembly.
- Unscrew bolts holding engaging mechanism housing to body. Remove complete clutch assembly including pulley and engaging mechanism from pump.
- 5. Remove key and shim from shaft.
- To break down handle, pulley and engaging mechanism remove small retaining ring at bearing, support pulley press engaging mechanism sleeve through bearing in handle and remove handle from engaging mechanism.
- If pulley bearing requires renewing, remove retaining from pulley and push out bearing.

#### DIS-ASSEMBLY-PUMP

- 1. Remove end cover screws, end cover and gasket.
- 2. Remove impeller.
- 3. Loosen cam screw and remove cam.
- 4. Remove wearplate.
- 5. Remove seal assembly, (Lip seal 51080).
- Press shaft on impeller drive end to remove shaft and from pump.
- 7. Remove bearing retaining ring from shaft.
- 8. Press shaft out of bearing supporting bearing inner.
- 9. Remove inner bearing seal if it needs replacing.

#### **ASSEMBLY PUMP**

- Press new seal into bearing end of body with lip facing away from bearing bore.
- Press shaft into bearing supporting inner race of bearing. Fit bearing retaining ring onto shaft.
- Position slinger in body drain area. Grease seal area of shaft. Push bearing and shaft into body by pressing on outer race of bearing.
- MODEL 51080.

Fit lip seal into body with lip facing into impeller bore. MODEL 51200

Take new seal seat (cup rubber and seal seat), lightly grease the outside edge of cup rubber and press into cavity in pump body with ceramic facing towards impeller bore. Slide mechanical seal sub assembly over shaft until it engages against ceramic face of stationary seal.

- 5. Fit wearplate.
- Coat cam screw thread, top side and back of cam, with non setting jointing compound and fit into body, securing with the cam screw.
- 7. Lightly grease impeller bore and fit impeller.
- Fit end cover and gasket and secure with screws.

#### ASSEMBLY-CLUTCH

- Screw engaging mech/sleeve into housing approximately 1 turn. Fit handle over sleeve and set 0.25mm clearance between housing and handle, when in the dis-engaged position, by screwing sleeve in or out as required. Lock handle on sleeve with grub screws.
   Note: Lubricate thread with ANTI-SCUFFING PASTE.
- Re-fit bearing and retaining ring into pulley. While supporting clutch mech/sleeve press pulley bearing assembly onto sleeve hard up against handle.
- Fit pulley/handle/engaging mech. assembly to pump with 3 bolts.
- Fit guide tube mechanism to handle and to engaging mech housing.
- 5. Fit shim and key onto shaft.
- Fit clutch cone, spring and spring retainer and secure with bolt. Tighten bolt until retainer is clamped against shaft. Notes: Lubricate between shaft and clutch cone with ANTI-SCUFFING PASTE. Assemble screw with Loctite (nut lock).
- 7. Re-fit snap-on cover.

#### ADJUSTMENT-CLUTCH

When new, the clutch will begin to engage approx. half way between the 'OFF' and 'ON' position i.e. when handle is near to the vertical position. As wear takes place the engaging position will move towards the 'ON' position. When there is little movement left between the engaging point and the 'ON' stop the clutch can be adjusted as follows:

- 1. When handle in the 'OFF' position remove snap on cover.
- Unscrew spring retaining bolt at end of shaft. Remove retainer spring, clutch cone and key.
  Note: Bolt is assembled with Loctite Nut Lock.
- Remove shim and re-assemble key, clutch cone, spring, retainer, screw and cover.
   Note: Removal of shim will restore engaging point to its

Note: Removal of shim will restore engaging point to its original position. Once shim has been removed no further adjustment is possible and clutch cone, and possibly pulley will need to be replaced.

Refer to Operating Instructions on page 17.