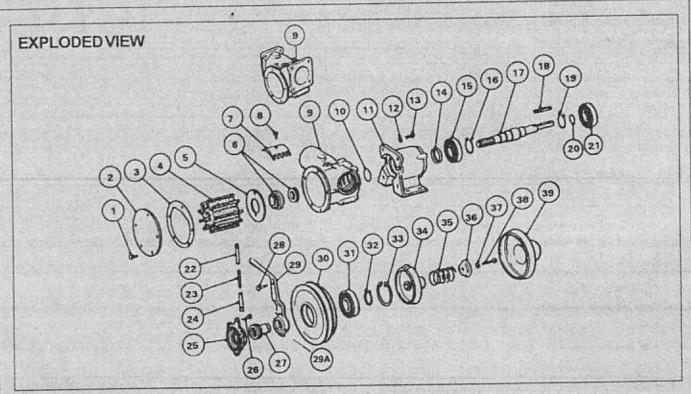


# 51220:51270 SERIES



# PARTSLIST

KEY	DESCRIPTION	QTY	Model 51220- Part No.	Model 51270-0 Part No.	Model 51270-2 Part No.
1	Endcover Screws*	5	SP1095-0640	SP1095-0640	X3001-176F
2	Endonver	110	8336	9336	9336
3	Cosket *	1010	816	816	810
4	Neoprene Impeller *	1	17935-0001	21675-0001 or 17995-0001	21676-0001 or 17936-0001
ME	Nitrile Impeller **	1	836-0003	21676-0003 or 6760-0003	21676-0003 or 6760-0003
5	Wearplate .	1	2574	2574	2574
5	Seal Assembly*	1	21849	+ 21640	21849
7	Cam	1	834	6988	6988
8	Cam Screw	1	SP1005-04	SP1005-04	SP1005-04
9	Body:		10634 (Flange)	10494 (Flange)	50274-0000 (BSP)
10	Singer	1	X4020-324A	X4020-324A	X4020-324A
11	Searing Housing	1	50273-0000	50273-0000	50273-0000
12	Washer	4	SP1602-13	SP1602-13	X3081-101C
-	Boit	4	SP1095-26	SP1095-28	X3001-209C
13	Inner Bearing Seal	1	SP2701-54	SP2701-54	GP2701-54
	A STATE OF THE PARTY OF THE PAR	1	SP2601-9458	SP2601-0458	SP0801-0458
15	Bearing Retaining Ring	1	YN026-06	Y5026-06	V5029-06
100	And Address of the Ad	1	51227-0000	51277-0000	51277-0000
17	Shaft	1	X4000-270A	X4000-270A	X4000-270A
18	Kery	1	Y5026-06	Y5026-06	Y5025-06
10	Retaining Ring	1	51211-0000	51211-0000	51211-0000
20	Shirn	1	SP2601-0458	5P2501-0458	SP2501-0458
21	Guide Tube Outer	11	51089-0000	51069-0000	\$1089-0000
22	A STATE OF THE OWNER OF THE OWNER OF THE OWNER.	1	51213-0000	51213-0000	51213-0000
23	Spring	1	51088-0000	51088-0000	61088-0000
24	Guide Tube Inner Engaging	1	51201-0000	51201-0000	51201-0000
III SHI	Mech / Housing	3	X3001-180F	X3001-190#	X3001-190F
26	Screw Engaging Mechilibrerie	1	51202-0000	\$1202-0000	\$1202-0000
26	Retaining Bolt	1	51094-0000	51094-5000	51094-0000
29	Handle	1	51200-0000	51203-0000	51203-0000
294	Control of the Contro	100000	X3009-172F	X3009-1728	X3009-172F
30	Pulley	1	51294-0000	512/34-0000	51204-0000
31	Bearing	1 3	5P2900-09	SP2833-09	582500-09
32	Retaining Hing	1	SP1700-137	SP1756-137	EP1700-137
33	Retaring Ring	3	SP1700-283	SP1700-263	SP1703-283
34	Chach Cone	1 1	\$1205-0000	51295-0000	55,705-00003
35	Service	1	X5250-002	X5250-002	X5250-002
56	Spring Retainer	1	51206-0000	51206-000Q	51206-0000
37	Spring Weather	-	X3081-1010	X3061-101C	309381-151C
38	Screw	1 1	X3001-213F	X3001-213F	X3001-213F
36	Cover	1	51212-0000	\$1212-0000	51212-0000
4 200	T. C. CONTROL	40.00	AND ASSESSMENT OF THE PARTY OF	The state of the s	The state of the s

### 51220 - SERIES

Service Kit SK407-0011 Service Kit SK407-0003

# 51270 - SERIES

Service Kit SK408-0011 Service Kit SK408-0013

All Service Kits contain parts marked\*, plus \*\* in place of Neoprene Impeller

# Port Adaptors (Optional Extra)

Series	Kit No.	Description
51220	K1-01	2" I/D Hose
	K1-200	1-1/1 BSP
	K1	1-'6" NPT

# Port Adaptors (Optional Extra)

Series	Kit No.	Description	
51270	K2-01	2-'h" I/D Hose	
	K2-200	2" BSP	
	K2	2" NPT	



# 51220:51270 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 handle, pulley and engaging mechanism from pump.
- 5. Remove key and shim from shaft,
- To break down handle, pulley and engaging mechanism assembly remove small retaining ring at bearing, support pulley and press engaging sleeve through bearing.
   Loosen screws in handle and remove handle from engaging mechanism.
- If pulley bearing requires renewing, remove retaining ring from pulley and push out bearing.

### DIS-ASSEMBLY-PUMP

- 1. Remove end cover screw, end cover and gasket.
- Remove impeller.
- 3. Loosen cam screw and remove cam.
- Remove wearplate.
- Remove bolts from bearing housing to body. Remove pump from bearing housing.
- 6. Remove seal assembly from body.
- Press shaft on impeller drive end to remove shaft and bearing from pump.
- 8. Press shaft out of bearing supporting bearing inner race.
- 9. Remove inner bearing seal if it needs replacing.

### ASSEMBLY-PUMP

- Press new seal into bearing housing with lip facing away from bearing bore.
- 2. Fit retaining rings onto shaft and press on bearings.
- Grease seal area of shaft, push bearings and shaft into bearing housing by pressing on outer race of bearing.
- Place slinger on shaft.
- 5. Fit pump body to bearing housing securing with 4 bolts.
- Take new seal (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.
- 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.
- 9. Lightly grease impeller bore and fit impeller.
- 10. 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 0.5mm 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 threads 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. With 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 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.