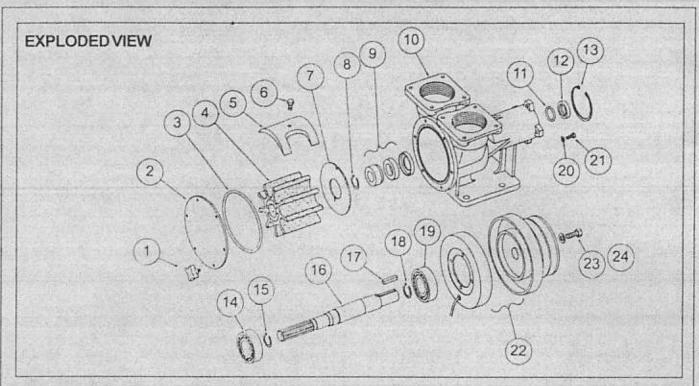
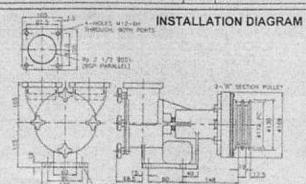


## 29870-2001 (12v dc Clutch) 29870-2101 (24v dc Clutch)



## PARTS LIST

KEY	DESCRIPTION	QTY	Part No.
1	End Cover Screws	4	X5255-002
2	End Cover	1	29865-0000
3	'O'-Ring*		X4020-424A
4	Neoprene impelier*	1	17240-0001B
5	Cam	1	29863-0100
6	Cam Screw	1	X3001-207F
7	Wearplate	1	29866-0000
8	Retaining Ring		SP1700-3015
9	Seal Assembly*	15	21849
10	Body		29864-2000
11	Slinger	1	X4020-324A
12	Outer Bearing Seal		SP2701-54
13	Retaining Ring	1	SP1701-244
14	Bearing	1	SP2601-0458
15	Retaining Ring	1	SP1700-3014
16	Shaft	1	29867-0000
17	Key	500 SEL100 S	X5271-002
18	Retaining Ring	355 and 188	SP1700-3014
19	Bearing	1	SP2601-0458
20	Washer .	4	X3081-091F
21	Bolt	4	X3001-180F
22	Clutch Assembly 12V		X5274-001
22	Clutch Assembly 24V	1	X5274-002
23	Spring Washer		X3081-111F
24	Screw	1	X3001-242F
Service Kit contains items marked *			SK412-0001



## Inspect all parts for wear or damage and replace if necessary. DIS-ASSEMBLY

- 1. Remove end cover screws, end cover and O-ring
- 2 Remove impeller.
- 3. Loosen cam screw and remove cam.
- Remove wearplate.
- 6 Remove screw from end of shaft. Screw 1/, UNC screw into the hub of the pulley assembly in order to draw the pulley from the pump shaft.
- Remove 4 bolts and washers holding the field coil onto the housing adaptor.
- 7. Remove field coil.
- 8. Remove seal retaining ring from shaft.
- 9. Remove seal assembly from body and alinger.
- 10. Remove retaining ring from body.
- Press shaft on impeller drive end to remove shaft and bearings from bearing housing.
- 12 Press shaft out of bearings supporting inner race of bearing. Remove retaining rings from shaft if necessary.
- 13. Remove pump inner bearing seal if it needs replacing

## ACCEMBLY

- If removed press inner bearing seal into bearing housing with lip facing away from bearing bore.
- 2. Fit retaining rings onto shaft and press on bearings.
- 3 Grease seal area of shaft, push bearings and shaft into bearing housing by pressing on outer race of bearings.
- 4. Fit retaining ring
- 5. Fit field coil to adaptor using 4 bolts and washers.
- Wipe pump shaft to remove any particles and check location of key. Slide pulley assembly onto shaft, lining with key and secure with retaining bolt.
- 7. Place slinger on shaft.
- Take new seal seat (cup rubber and seal seal), 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.
- 10. Fit retaining ring.
- 11. Fit wearplate.
- 12 Coat carn screw threads, top side and back of carn, with non-setting jointing compound and fit into body, securing with carn screw.
- 13. Lightly grease impeller bore and fit impeller
- 14. Fit O-ring and end cover and secure with screws.