

#### **CALIFORNIA PROPOSITION 65 WARNING:**

▲ WARNING This product and related accessories contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

#### NOTE

This repair manual is applicable to pump Models 421 & 485, 422 423 All photos illustrate Model 422 assent where

### LUBRICATION (BALL BEARINGS)

Regreasable bearings will require periodic lubrication and this can be accomplished by using the zerk or lubrication Łvvkpi"cv"gcej"dgctkpi0""Nwdtkecvg"vjg"dgctkpiu"cv"tgiwnct"kpvgtxcnu"wukpi"jkij"swcnkv{"itgcug0""Vjg"kpkvkcn"dgctkpi"nwdtkcation at Aurora is Chevron SRI Grease NLGI 2 (polyurea vjkemgpgt+" \*Rgpvckt" Rctv" Pwodgt" 5:6/2224/85;+0" Dghqtg" nwdtkecvkpi"vjg"dgctkpiu."vjqtqwijn{"itwujkpi"vjg"qnf"itgcug" ykvj"vjg"pgy"itgcug"ku"tgswktgf0" Yg"tgeqoogpf"Ejgxtqp" UTK"Itgcug"PNIK"4"\*rqn{wtgc"vjkemgpgt+"hqt"hqnnqy/wr"tgnwdtkecvkqp"chvgt"vjg"lwujkpi0"Oquv"oclqt"dtcpfu"qh"Itcfg"Pq0" 4"dcm"dgctkpi"itgcug"ctg"ucvkuhcevqt{"hqt"rwor"qrgtcvkqp"kp" dqvj"ygv"cpf"ft{"crrnkecvkqpu0""



"Dg" cyctg" vjcv" okzkpi" qh" fkhhgtgpv" dtcpfu" qt" dngpfu" qh" grease should be avoided due to possible incompatibilities vjcv"eqwnf"fcocig"vjg"dgctkpiu0""C"vjqtqwij"łwujkpi"qh"vjg" old grease with the new grease is required to minimize this rqvgpvkcn" kpeqorcvkdknkv{0" "Cxqkf" wukpi" vjg" hqnnqykpi<" \*3+" itgcug"qh"xgigvcdng"qt"cpkocn"dcug"vjcv"ecp"fgxgnqr"cekfu"qt" \*4+"itgcug"eqpvckpkpi"tqukp."itcrjkvg."vcne"qt"qvjgt"korwtkvkgu0" Wpfgt"pq"ektewouvcpegu"ujqwnf"itgcug"dg"tgwugf0



Over lubrication should be avoided as it may result in over-jgcvkpi"cpf"rquukdng"dgctkpi"hcknwtg0""Wpfgt"pqtocn"crrnkec

SECTION 6 ITEM 420 DATED JUNE 1985 SUPERSEDES ITEMS 421 & 485 422, 423 DATED JULY 1980

periodic insp The intent of	pump requires no maintenance other than ection, lubrication and occasional cleaning. f inspection is to prevent breakdown, thus imum service life.
	CAUTION
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Model 421 pu	imps are available with two options for
lubricating the	e shaft bearings. They are: sable (standard)
<u> </u>	1

Under working conditions, oil will breakdown and need to be replaced at regular intervals. The length of these intervals will depend on many factors. Under normal operation, in clean and dry locations, the oil should be changed about once a year. However, when the pump is exposed to dirt contamination, high temperatures (200°F. or above) or a

2. Close such valves or flow-control devises necessary to make certain that flow of liquid will not take place during disassembly.

### NOTE

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	months.	unless complete pump assembly is to be removed.
	The motor which drives your Aurora pump may or may not	3. Drain liquid from pump by removing plugs (1 and 2).
	The motor which drives your Aurora pump may or may not require lubrication. Consult the manufacturer's	3. Drain liquid from pump by removing plugs (1 and 2).  Disconnect by-pass lines if applicable.
	-( <u>)</u>	
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	recommendations for proper maintenance instructions.	4. Loosen and remove capscrews (6) securing casing half
	REPAIRS	(8) to remainer of pump assembly.

clamps (20), securing split halves of packing glands (21). Remove swing bolts (22).

10. Assuming that further work is required on shaft and impeller assembly use properly secured rone slings and

18. Pull or press off bearing cartridge (45), grease seal (46), and bearing (47). Remove slinger (48), lantern ring (52), and bushing (56) from shaft.

19 If unit has right hand rotation unserem and remove 1

# MODELS 421 & 485-422-423

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can be cracked by just sliding loose on shaft. To			
The transfer of the control of the c	can be	e cracked by just sliding loose on shaft	To

other protective covering.

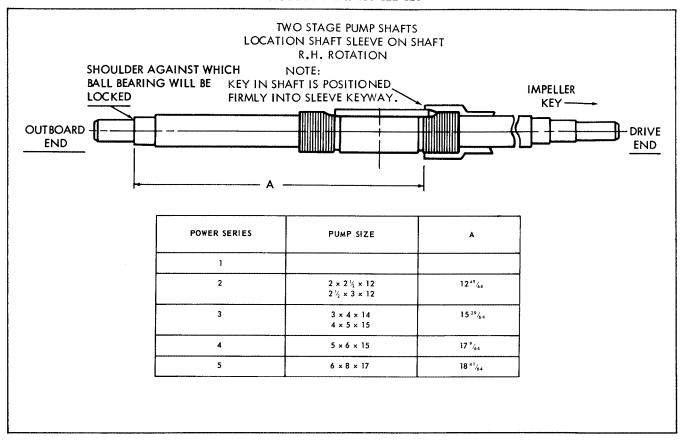
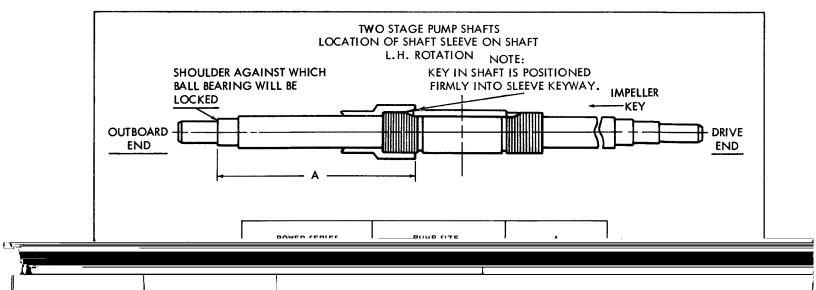


Figure 2



4. On right hand unit proceed to assemble the rotating element as follows:

Coat impeller (59) keyway with loctite sealant grade 242, slide impeller (67) onto shaft (71).

Place gasket (64) on shaft and slide separate sleeve (62) against it. Place casing bushings (61) over separator sleeve. Place gasket (60) on shaft, coat impeller (59) keyway with

impeller has been positioned. Place O-ring (58) in shaft sleeve

(57), then thread shaft sleeve tight onto shaft (71).

- Slide one seal lock collar (54) with setscrews (55) facing the impeller onto each end of the shaft. Position on scribe mark made during disassembly and lock in place.
- II. Put a light coat of liquid dishwashing detergent on shaft sleeve. Check rotating parts of seal to make sure they are clean. Spread a light coat of liquid detergent on inside

III. Place the seal's spring, drive ring, retainer,

flexible bellows, and washer on shaft sleeve in

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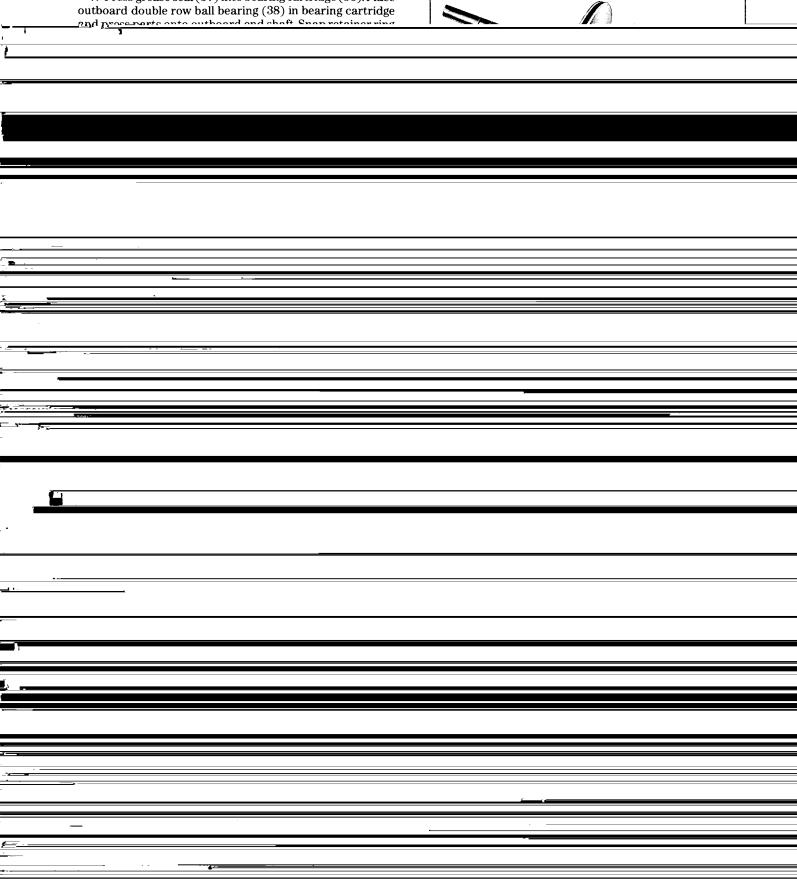
III.Place "O" rings (50) around the seal glands (49) and slide seal glands onto ends of the shaft with stationary seats facing impeller.

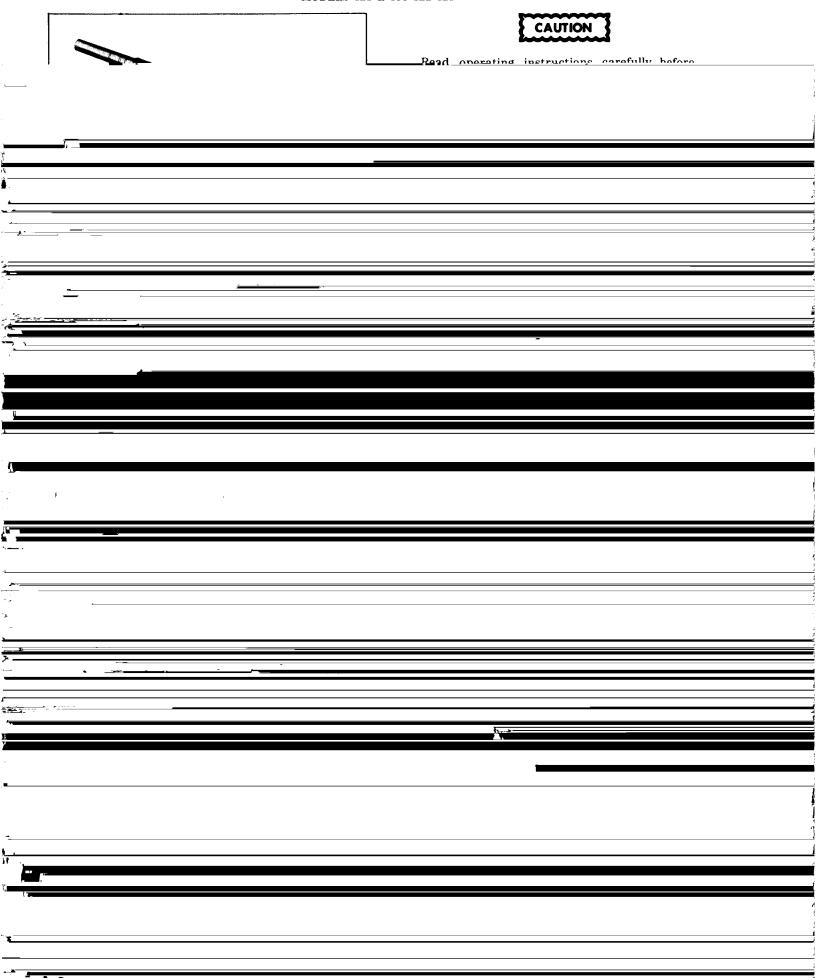
6. Place slinger (39) onto outboard end of shaft (71).

7. Press grease seal (37) into bearing cartridge (36). Place

### NOTE

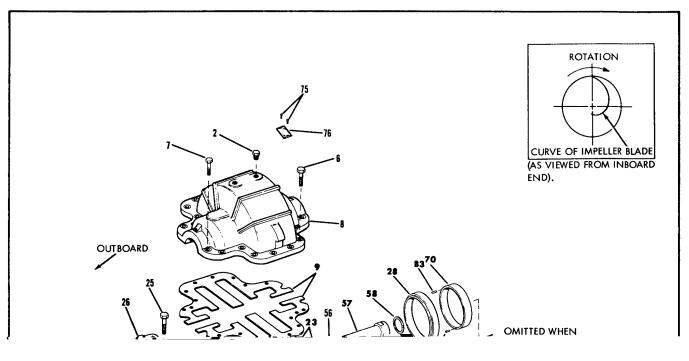
Grease zerks or breather tubes should face up.

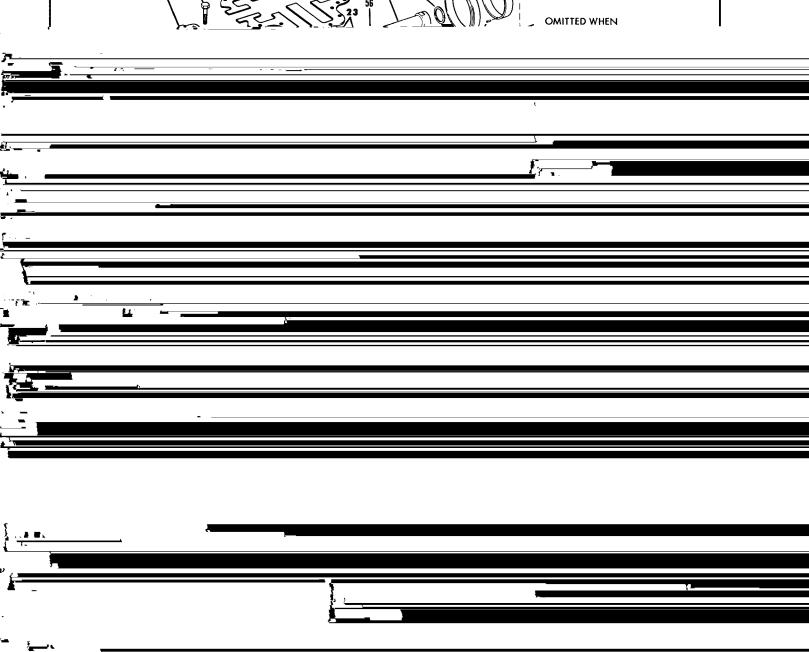


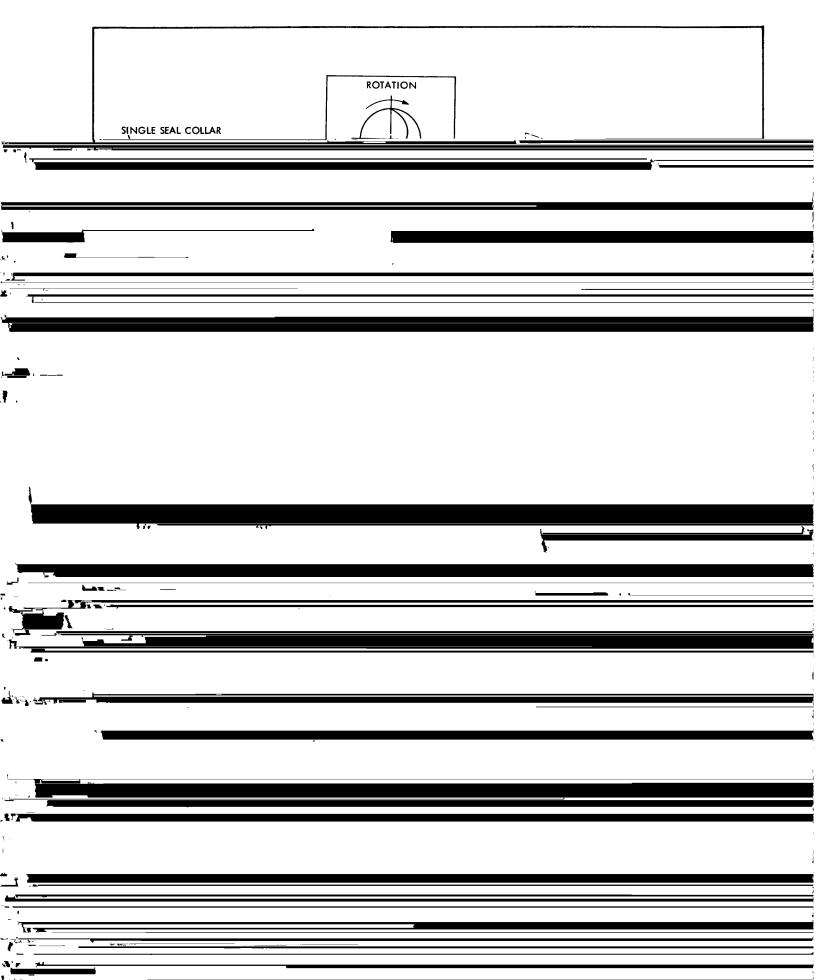


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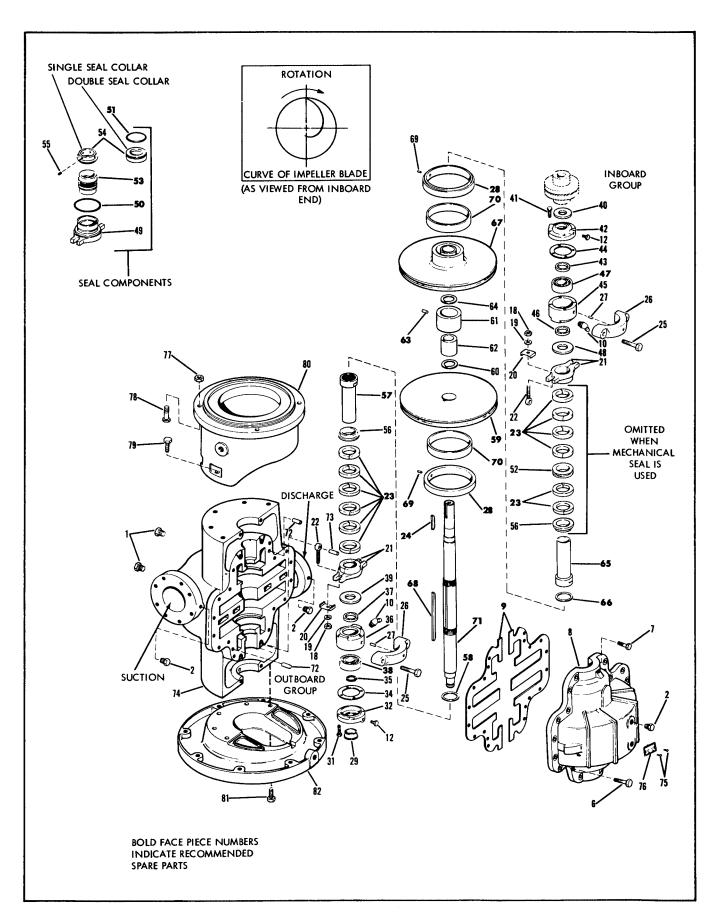
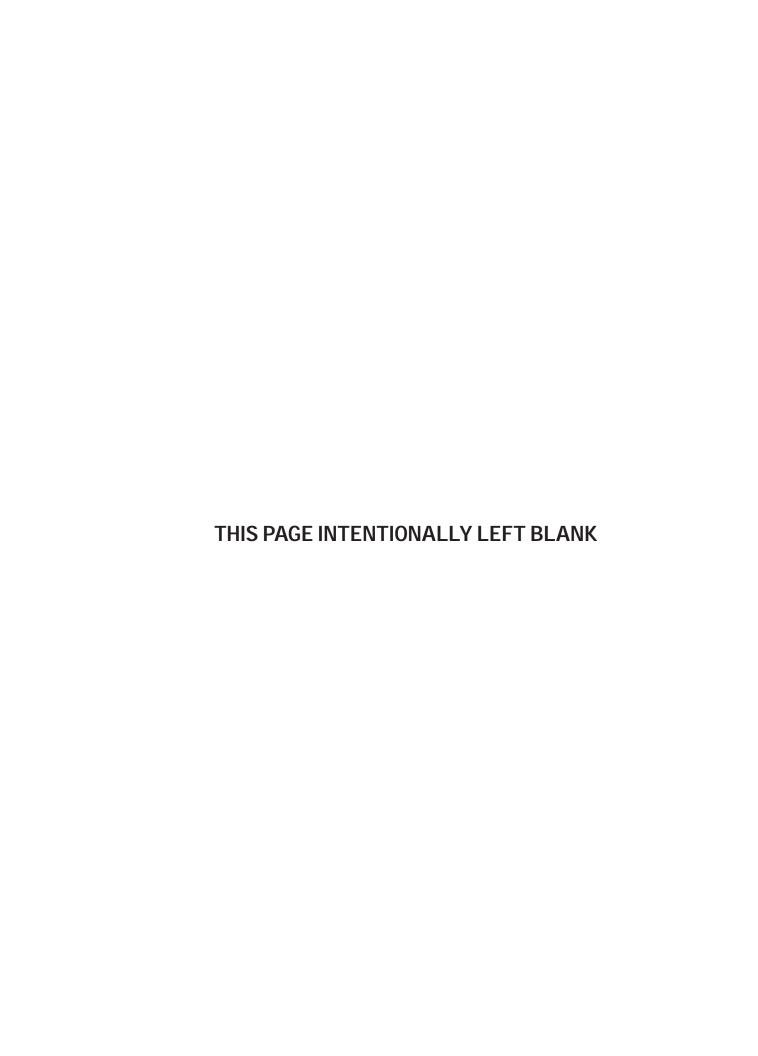


Figure 6. 423 Pump Exploded View



# WARRANTY