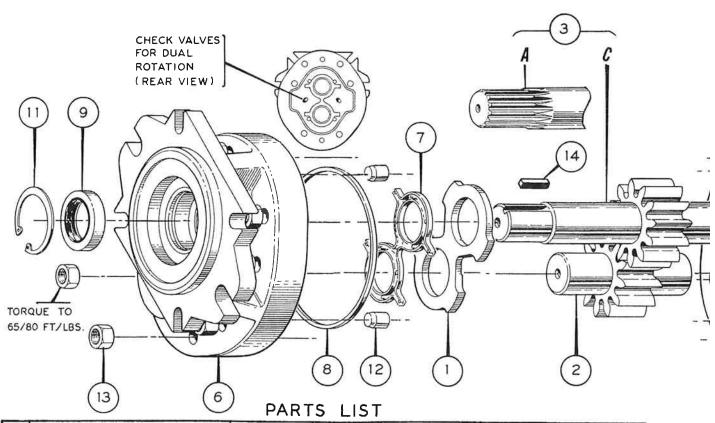
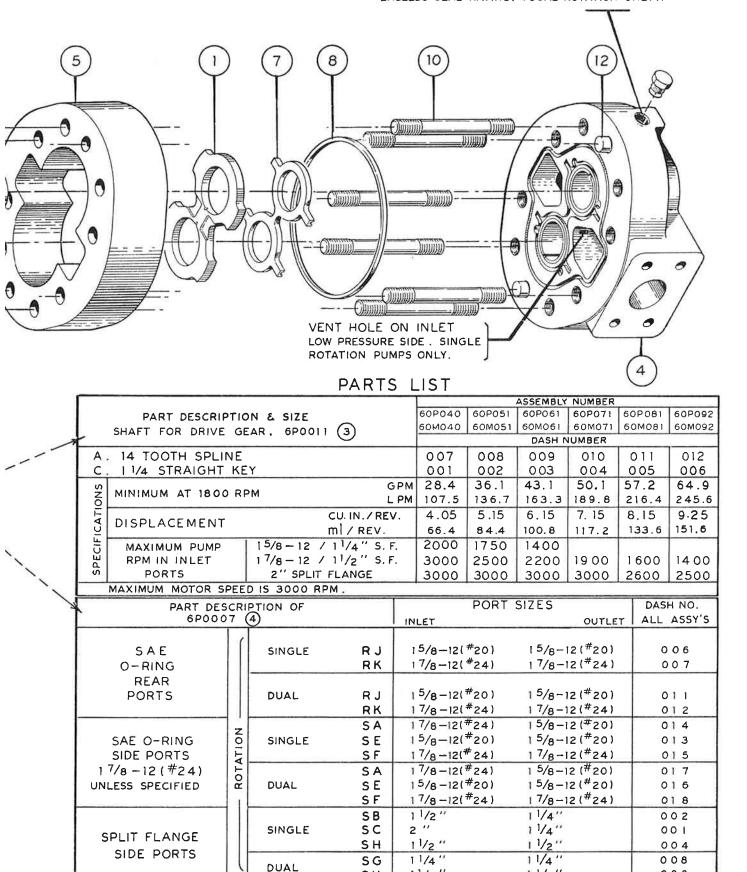
SERIES 60 Gear Pump and Motor Parts Exploded



					T				
	PART	DETAIL PART	60P040	L.		60P071		60P09	and the second
\cup	DESCRIPTION	NUMBER	60M040	60M051		60M071	60M081	60M09	QTY
1	THRUST PLATE	6P0013	DASH NUMBER						2
2	DRIVEN GEAR	6P0012						_	
3	DRIVE GEAR	6P0011	001				005	006	1
4			SEE SHAFT — — — — — —						7 !-
_	REAR COVER ASSEMBLY	6 P 0 0 0 7	SEE PORTING						7 1
5	BODY	6P0004	001	002	003	004	005	006	1
6	FRONT COVER ASSEMBLY	6 PO 003	- 002 DUAL ROTATION }						
	FRONT COVER ASSEMBLY	6 PO 0 0 3	- 001 SINGLE ROTATION						
7	LOADING SEAL	5A0079							
8	STATIC SEAL	5A0041							
	∫SHAFT SEAL	5A0080	///// DUAL ROTATION ///////						
9	SHAFT SEAL	5 A 0 0 4 0	//////single rotation ////////						
10	TIE BOLT	2A0580	431	456	481	506	531	562	8
	LENGTH		4 5/16	4 9/16	4 13/16	5 1/16	5 5/16	55/8	
11	RETAINING RING	2A0466	212						1
12	DOWEL PIN	2A0310	810						4
13	HEX NUT 1/2-13 THD	2A0235	8						8
14	STRAIGHT KEY	5A0082							
	SEAL KIT	6P0017	-001 SINGLE ROTATION (100 PSI)						0
	SEAL KIT	6P0017	O02 DUAL ROTATION (250PSI)						0
	SHIPPING PLUG	2A0353	- 30 17/8-12 O-RING PORT (SAE#24)						
į .	SHIPPING PLUG	2A0353	- 26 15/8-12 O-RING PORT (SAE #20) AS						AS
	SHIPPING PLUG	2A0356	1 1 1						REQD
	SHIPPING PLUG	2A0356	- 20 11/4" SPLIT FLANGE						
	SHIPPING PLUG	2A0356	-32	2.0	SPLIT F	LANGE			

CASE DRAIN PORT — USE WHEN BACK PRESSURE EXCEEDS SEAL RATING, (DUAL ROTATION ONLY).



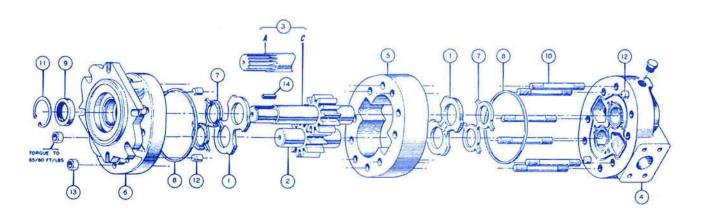
11/2"

SH

1 1/2"

009

SEAL REPLACEMENT INSTRUCTIONS



A. DISASSEMBLY:

- Remove unit and thoroughly clean. Remove shaft key (14) and any nicks or burrs on shaft.
- Scribe line on outside of unit across front cover, body and rear cover to assure proper reassembly.
- 3. Lightly clamp rear cover (4) in vise, shaft up. EXCESSIVE CLAMPING PRESSURE CAN CAUSE DISTORTION.
- 4. Remove nuts (13) from front cover (6).
- 5. Tap upwards, underneath front cover flange and remove front cover. As unit separates, the body may remain with either the front or rear cover. Remove loose parts (rings, plates, etc.)
- *6. To separate body from front cover, clamp body in vise and again tap upwards on front cover flange. To separate body from rear cover, clamp body in vise and tap downward on shaft. Remove static seals (8) and loading seals (7) from grooves. DO NOT DAMAGE GROOVE OR COVER SURFACE.
- 7. Remove snap ring (11) from shaft seal cavity in front cover using internal snap ring pliers.
- 8. Clamp front cover in vise, seal down, and drive shaft seal out of cavity using screwdriver held at about a 45° angle. USE CAUTION NOT TO DAMAGE CAVITY.
- Step 6 can be by-passed if only the shaft seal is being replaced.

B. PARTS INSPECTION:

- 1. Thoroughly clean all parts in solvent and dry with compressed air.
- 2. Inspect all parts for damage and unusual or excessive wear. If gears, bushings or body are damaged or badly worn, replace unit (Only plates and seals are replaceable).

C. REASSEMBLY:

- 1. Install new shaft seal (9) in front cover (6). Be sure bearing drain hole is not blocked.
- 2. Install snap ring (11) and new seals (7, 8) in covers (if needed)
- 3. Assemble body (5) and rear cover (4) aligning dowel pins (12) and scribed line.
- 4. Insert thrust plate (1) into body (5) flat side toward seal 7. Lubricate gears and insert.
- 5. Insert thrust plate (1) over shaft, flat side toward seal 7.
- 6. Lubricate shaft and slide front cover (6) over shaft and dowel pins (12). Tap if needed.
- 7. Add nuts and tighten evenly 65/80 ft. lbs.
- 8. Rotate shaft, the maximum torque is 25 ft. lbs.
 - If greater torque is required, disassemble unit, re-clean and re-assemble.

It is the policy of Cross Manufacturing, Inc. to improve its products whenever possible and practical to do so. We reserve the right to make changes, improvements and modifications at any time without incurring the obligation to make such changes, improvements and modifications on any equipment sold previously.