

YORK®

SECTION 2

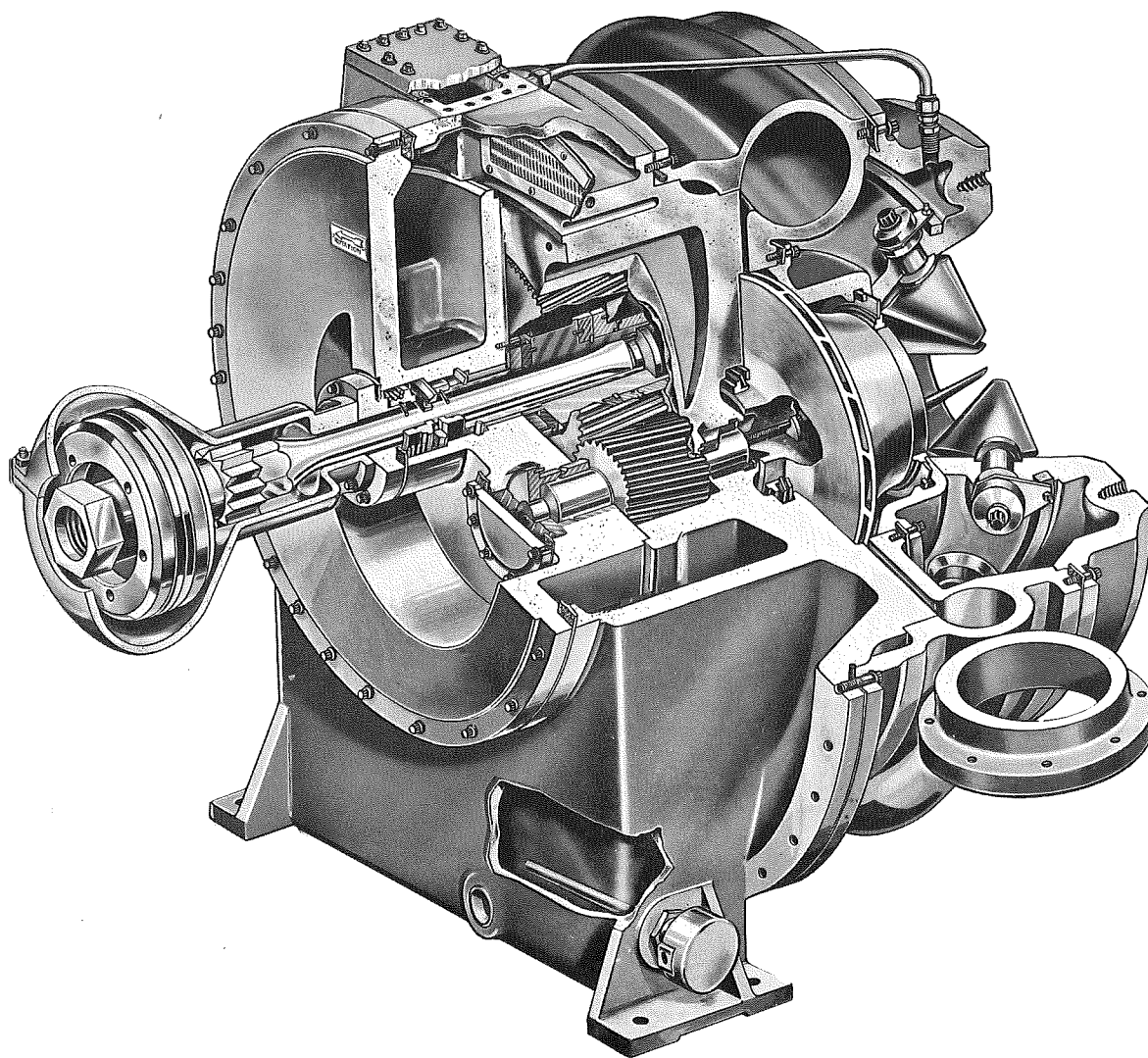
OPEN TURBOPAK CENTRIFUGAL LIQUID CHILLING UNITS

RENEWAL PARTS

Supersedes: Nothing

1080 Form 160.63-RP1 (Sect. 2)

MODELS OT M1 G1 THRU OT T4 G2 (STYLE B)
650 THRU 1300 TONS
COMPRESSOR PARTS
MODEL LKB 65 AND LKB 73



COMPRESSORS

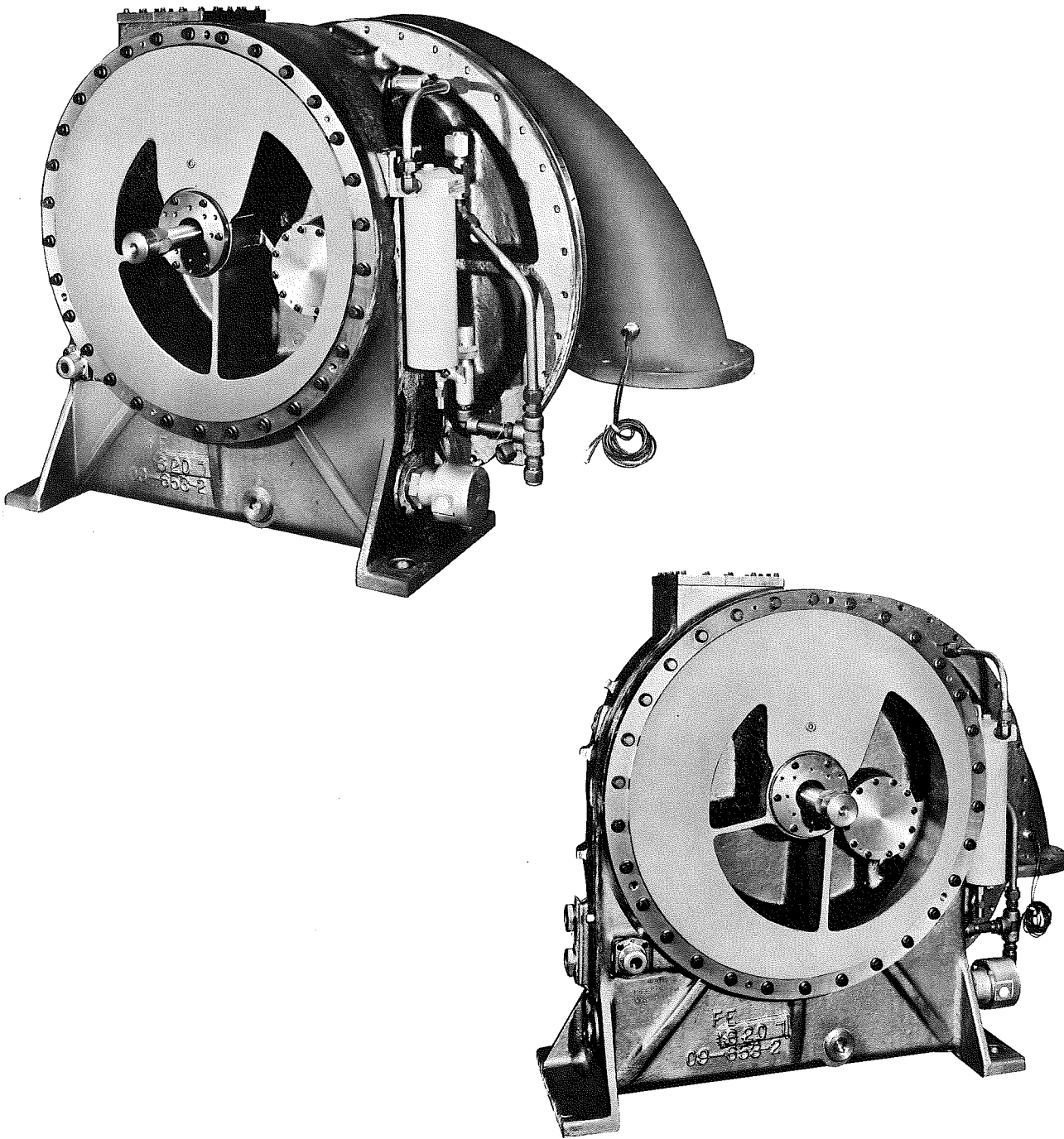


FIG. 1 — OPEN TYPE COMPRESSOR, MODEL LKB

Code	Compressor Part No.	Common Parts	Variable Parts
		See Page No.	
G1	364-44178-002	6 & 7	7
G2	364-44178-003	6 & 7	7

COMPRESSORS LKB65 & LKB73

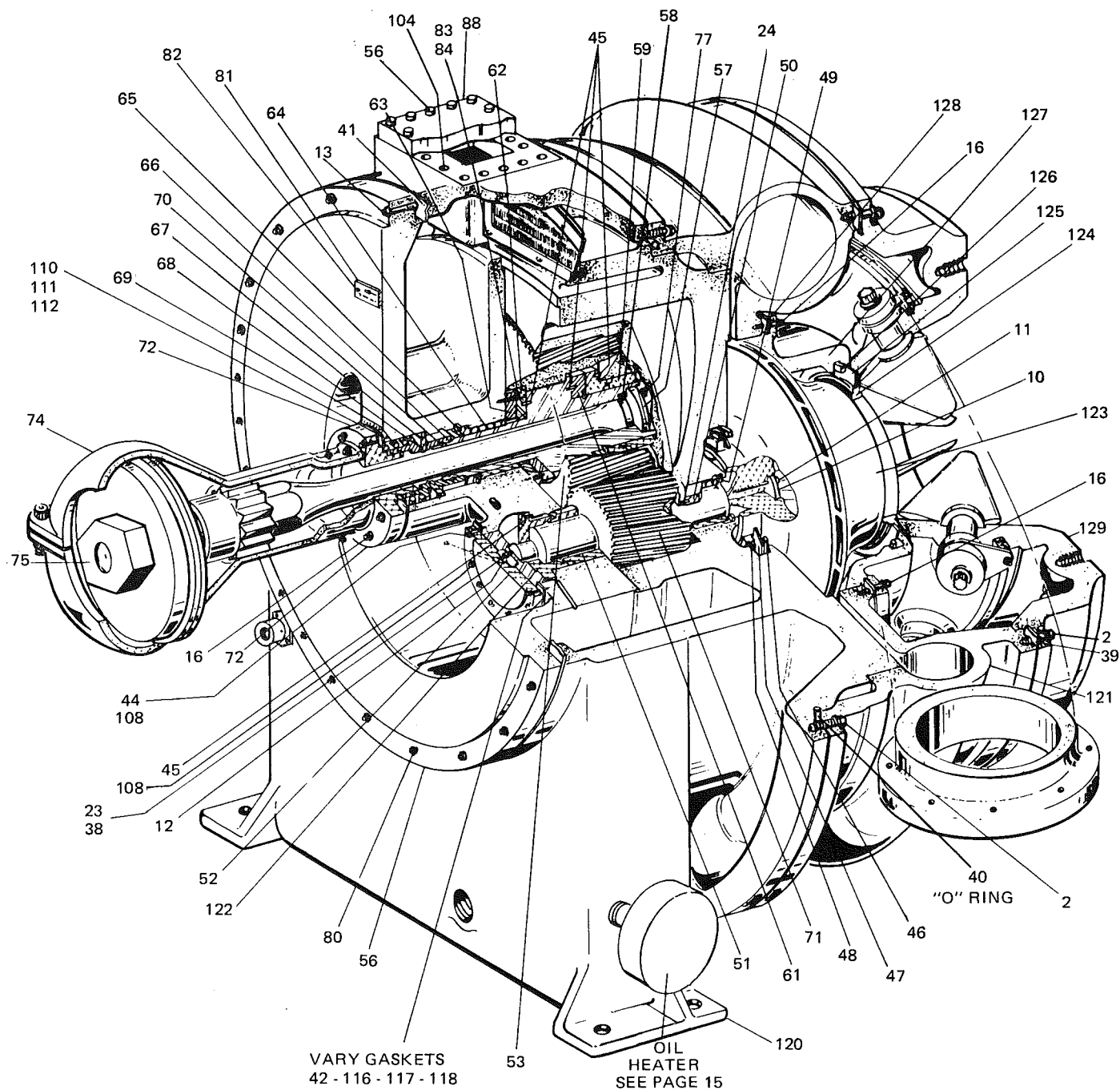


FIG. 2 — MODEL LKB65 & LKB73 COMPRESSORS, PARTS LOCATION

COMPRESSORS LKB65 & LKB73

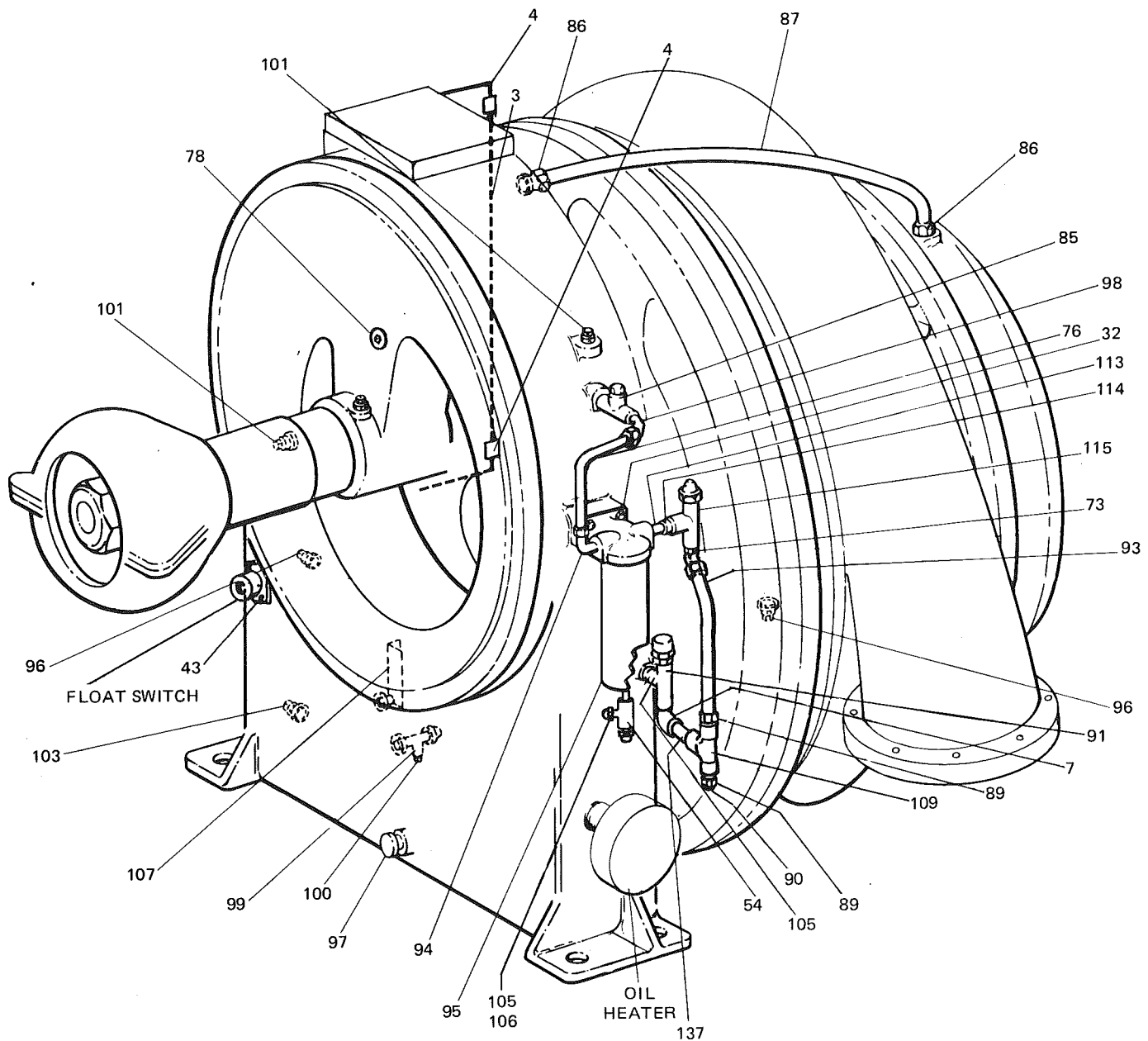
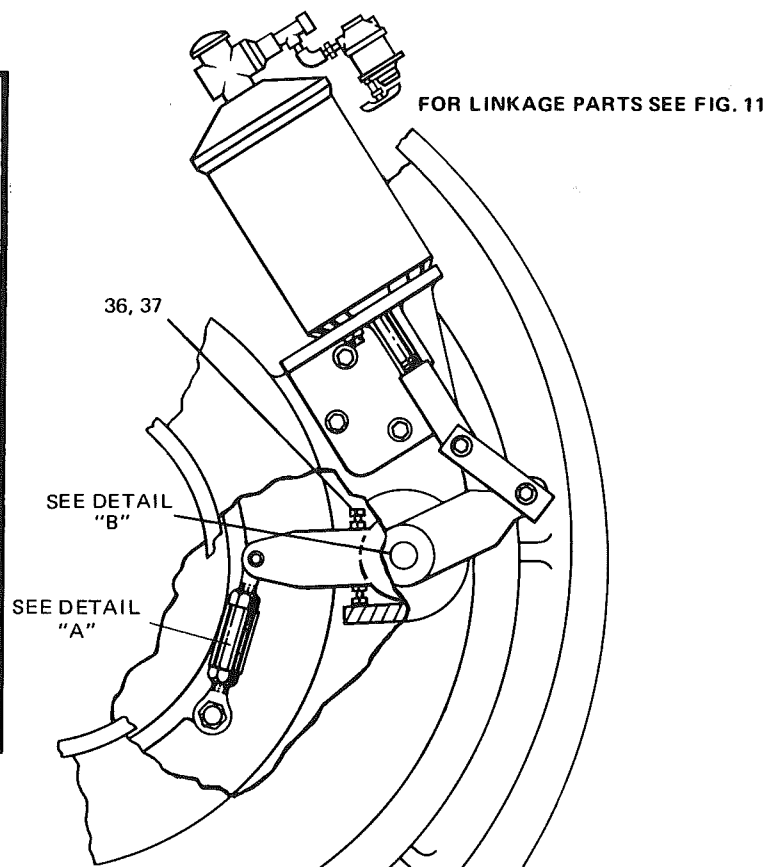
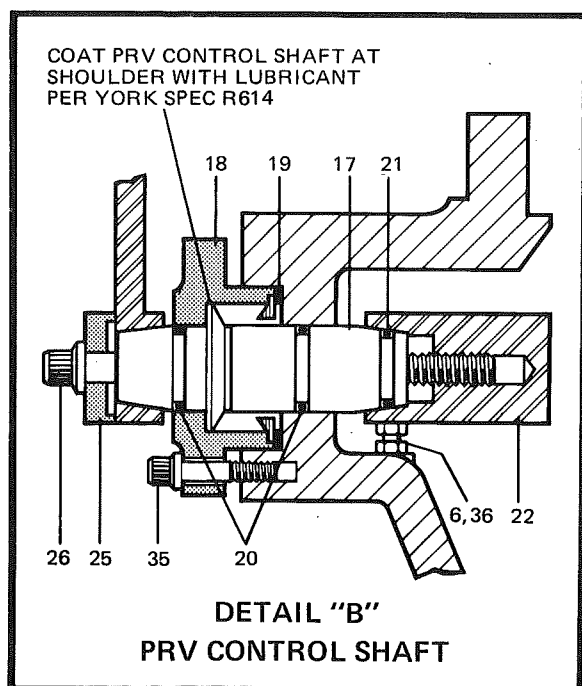
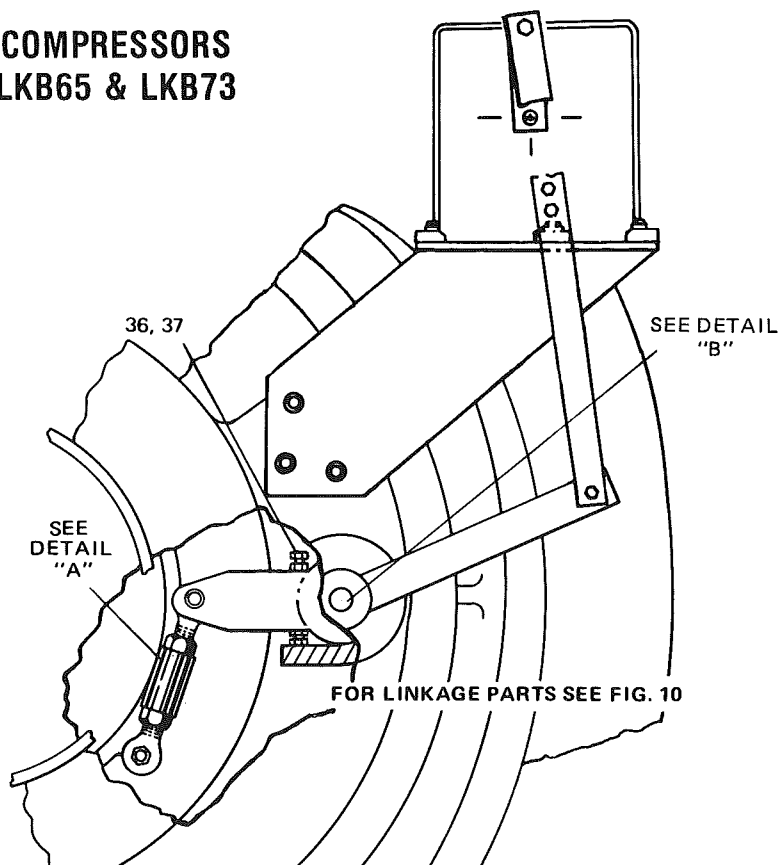
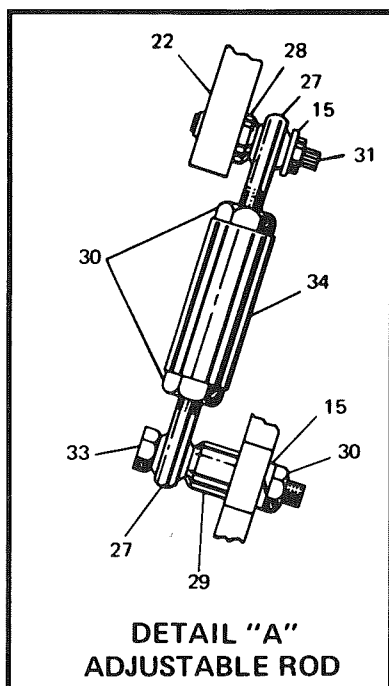


FIG. 3 — MODEL LKB65 & LKB73 COMPRESSORS, EXTERIOR VIEW, PARTS LOCATION

COMPRESSORS LKB65 & LKB73



COMPRESSOR COMMON PARTS LIST

Item	Description	Quan.	Part No.	Item	Description	Quan.	Part No.
1	Eliminator, Oil	1	364-28144	43	Screw, Cap 12 Pt. Hd. 5/16-18 UNC-3A X 1 Lg.	4	021-12039
2	Screw, Cap 12 Pt. Hd. 5/8-11 UNC x 2	60	021-11971	44	Washer, 11/32 I.D. X 11/16 O.D. X .065 Th.	12	021-05166
3	Tube, 1/4 O.D. X .049 W X 27-1/16 Lg.	1	067-91500	45	Pin, Insert, 1/4 Dia. X 5/8 Lg.	6	029-03989
4	Elbow, 90°, 1/8 MPT X 1/4 Tube	1	023-07170	46	Ring, Retaining	1	029-10336
5	Screw Mach. Rd. Hd. Recd. #10-24 UNC X 1/2 Lg.	3	021-02459	47	Washer, Flat Spring	1	064-31191
6	Nipple Pipe, 1/2 Sch. 80 X 3" Lg.	1	067-39604	48	Ring, Seal, Balance Piston	1	064-31189
7	Elbow, 90°, 1/2 X 1/2 MPT	1	023-04312	49	Ring, Retaining	1	029-13854
8	Tube, 5/8 O.D. X .049 W X 6 Lg.	1	064-19162	*50	Bearing, Main (Pinion)	1	064-31190†
9	Adapter, 1 NPT X 1/2 NPT Both Ends	1	064-28148	*51	Bearing, Thrust & Journal (Pinion)	1	064-21188+
10	Collar, Imp. Clamping	1	064-24116	*52	Cover, Thrust	1	064-24124
11	Screw Cap 12 Pt. Hd. 1/2-20 UNF-3A X 3 Lg.	3	021-11515				See Data
12	Screw Cap 12 Pt. Hd. 5/16-18 UNC-3A X 3/4 Lg.	2	021-11394	53	Gear & Pinion	1	Nameplate
13	Screw Cap 12 Pt. Hd. 5/8-11 UNC-3A X 1-3/4 Lg.	30	021-11127	54	Valve, Stop Angle 1/4 FLA X 1/4 NPTE	1	022-03836
14	Compound Sealer	A.R.	013-01671	55	Plug, Sight	2	026-16556
15	Lockwasher, Spg. 3/8	2	021-05291	56	Screw, Cap 12 Pt. Hd. 5/16-18 UNC X 1 Lg.	1	021-14440
16	Screw Cap 12 Pt. Hd. 3/8-16 UNC-3A X 1-1/4 Lg.	24	021-11141	57	Shaft, Drive	1	064-23831
17	Shaft Control PRV	1	029-13581	*58	"O" Ring, 2-3/8 O.D. X 2-1/8 I.D. X 1/8 Sect.	1	028-04478
18	Cover, Shaft Control	1	064-13909	*59	Bearing, Thrust & Journal (Gear)	1	064-23741
19	Gasket, 2-1/2 O.D. X 2 I.D. X 1/16 Thk.	1	028-00781	60	Collar, Thrust, Front (Gear)	1	064-23125
20	"O" Ring, 1-3/8 O.D. X 1-1/8 I.D. X 1/8 Sect.	2	028-04353	61	Collar, Thrust, Rear (Gear)	1	064-24126
21	"O" Ring, 1-1/4 O.D. X 1" I.D. X 1/8 Sect.	1	028-04522	62	Bearing, Thrust (Gear)	1	064-23127
22	Lever, PRV Device Int.	1	364-23745	*63	Bearing, Rear (Gear)	1	064-24105
23	Scr. Set Hex Soc. Cup Rd. # 10-24 UNC-3A X 1/4 Lg.	1	021-11313	*64	Ring, Retaining	1	029-08780
*24	Pin, Insert 1/8 Dia. X 9/16 Lg.	2	029-03990	65	Collar, Shaft Seal	1	064-16649-011
25	Washer, Spl. 1-3/4 Dia. X 1/2 Lg.	1	064-08815	66	Carbon, Shaft Seal	1	064-16651-011
26	Screw, Cap 12 Pt. Hd. 1/2-20 UNF-3A X 6 Lg.	1	021-11998	67	Ring, Shaft Seal	1	064-16650-011
27	Bearing, Rod End Spher.	2	029-08343	68	Spring, Helical	1	029-09095
28	Fillpiece, 3/4 Dia. X 1/4 Lg.	1	064-10821	69	"O" Ring, 3" O.D. X 2-5/8 I.D. X 3/16 Sect.	2	028-05194
29	Fillpiece, 3/4 Dia. X 23/32 Lg.	1	064-09288	70			
30	Nut, Hex Reg. 3/8-24 UNF-2B	3	021-00474	71			
31	Screw Cap, 12 Pt. Hd. 3/8-24 UNF-3A X 1-1/2 Lg.	1	021-11720				
32	Screw Cap Hex Hd. 1/2-13 UNC-2A X 1-1/4 Lg.	2	021-01567	72	Cover, Shaft Seal	1	064-22975
33	Screw, 3/8-24 UNF X 2-1/2 Lg.	1	064-09287	73	El, Cinch 45° 3/4 Tube X 3/4 NPTE	1	023-07264
34	Rod, Adjustable	1	064-23117	74	Guard, Coupling (Half)	2	See Fig. 11
35	Screw Cap 12 Pt. Hd. 3/8-16 UNC-3A X 1-1/2 Lg.	2	021-11175	75	Coupling, 1-7/8	1	See Fig. 10
36	Screw, Cap Hex. 1/4-20 UNC X 3/4	2	021-01379	76	Tube 5/8 O.D. X .049 Wall X 16 Lg.	1	064-31776
37	Nut, Hex 1/4-20 UNC	2	021-00574	77	Screw Cap 12 Pt. Hd. 5/16-24 UNF-3A X 1 Lg.	12	021-13137
*38	Locktite "Nut-Lock"	A.R.	013-01678	78	Plug, Pipe Hex Soc. Csk. 3/8	3	023-04298
*39	Gasket, PRV Hsg. to Scroll	1	064-24118	*79	"O" Ring, 7/8 O.D. X 11/16 I.D. X 3/32 Sect.	1	028-05404
40	"O" Ring, 30.969 I.D. X .275	1	028-09489	80	Pin, Dowel, Str. 1/2 Dia. X 2 Lg.	3	029-10646
*41	Gasket, Rotor Supp. to Bearing Housing	1	064-24120	81	Nameplate, Rotation	1	029-00334
*42	Gasket, Cover, Thrust 1/32 Thk.	1	064-24121-004				

*Parts Included Field Kit - 364-34338

† Item 50 - Part No. 064-23923

Item 51 - Part No. 064-23736

Part No's. used on first production compressors

A.R. - As required

COMPRESSOR COMMON PARTS LIST

Item	Description	Quan.	Part No.	Item	Description	Quan.	Part No.
82	Screw Drive #4 X 1/4 Lg.	6	021-03720	105	Nut Flare 1/4	1	021-05675
83	Screw Cap Hex Soc. #10-24 UNC X 1 Lg.	2	021-10153	106	Bonnet, Flare 1/4	1	023-01024
84	Washer, Plain, 7/32 I.D. X 1/2 O.D. X .049	5	021-05164	107	Thermometer	1	026-16555
85	Valve, Check 1/2 MPT X 1/2 FPT	1	022-01464	108	Screw, Cap 12 Pt. Hd. 5/16-18 UNC-3A X 1-3/8 Lg.	12	021-12465
86	Connection, 1/2 Tube X 1/2 MPT	2	023-06804	109	Tee, Screw 3/4 X 3/4 X 1/2	1	023-04357
87	Tubing 1/2 O.D. X .049 Wall X 21" Lg.	1	064-31771	110	Gasket, Shaft Seal Cover	1	064-16652-021
88	Cover, Oil Reservoir	1	064-43792	111	Gasket, Shaft Seal Cover	1	064-16652-022
89	Connection, 3/4 Tube X 3/4 NPTE	2	023-06807	112	Gasket, Shaft Seal Cover	1	064-16652-023
90	Cap, 5/8 Tube	1	023-08892	113	Nipple, Pipe 1/2 Sch. 80 X 1-1/8 Lg.	3	067-39601
91	Valve, Pressure Relief 1/2 FPT	1	022-03427	114	Bushing, 3/4 X 1/2	2	023-04010
92	Name Plate Patent	1	029-13270-002	115	Valve, Stop Angle 3/4	1	022-06358
93	Tubing, 3/4 O.D. X .049 Wall X 18 Lg.	1	064-31781	*116	Gasket, Cover Thrust .005 Thk.	1	064-24121-001
94	Elbow, 90°, 5/8 Tube X 1/2 MPT	2	023-06818	*117	Gasket, Cover Thrust .010 Thk.	1	064-24121-002
*95	Filter, 1/2 FPT	1	026-13831	*118	Gasket, Cover Thrust .015 Thk.	1	064-24121-003
96	Plug, Pipe Sq. Hd. 1/2	2	023-03822				
97	Cap, Sealing 2-1/8	1	028-04653				
98	Elbow, 45°, 5/8 Tube X 1/2 MPT	1	023-07197				
99	Valve, Stop, Angle 3/8	1	022-05252				
100	Plug, Pipe, Sq. Hd. 3/8	1	023-01983				
101	Plug, Pipe, Sq. Hd. 1/4	2	023-01972				
102							
103	Plug, Pipe, Hex Skt. Csk. 2"	1	023-02027				
*104	Gasket, Cover Oil Reservoir	1	064-43793				

*Parts Included Field Kit — 364-34338

COMPRESSOR VARIABLE PARTS LIST

Item	Description	Model LKB65 (G1) 364-44178-002		Model LKB73 (G2) 364-44178-003	
		Part No.	Quan.	Part No.	Quan.
119	Common Parts	See Pg. 6 & 7	1	See Pg. 6 & 7	1
120	Support, Rotor	064-43865	1	064-43866	1
121	Scroll, Rotor	064-43674	1	064-43673	1
122	Collar, Thrust (Pinion)	064-24130	1	064-24131	1
123	Impeller	064-31194	1	064-31195	1
124	Ring, Impeller Seal	064-23977	1	064-23980	1
125	Washer, Flat Spring	064-23978	1	064-23981	1
126	Ring Int. Retaining	064-23979	1	064-23982	1
127	Plate, Imp. Seal Retaining	064-23726	1	064-23727	1
128	Gasket Retaining Plate	*064-24122	1	*064-24123	1
129	Device, P.R. V.	364-43861	1	364-43862	1

COMPRESSOR

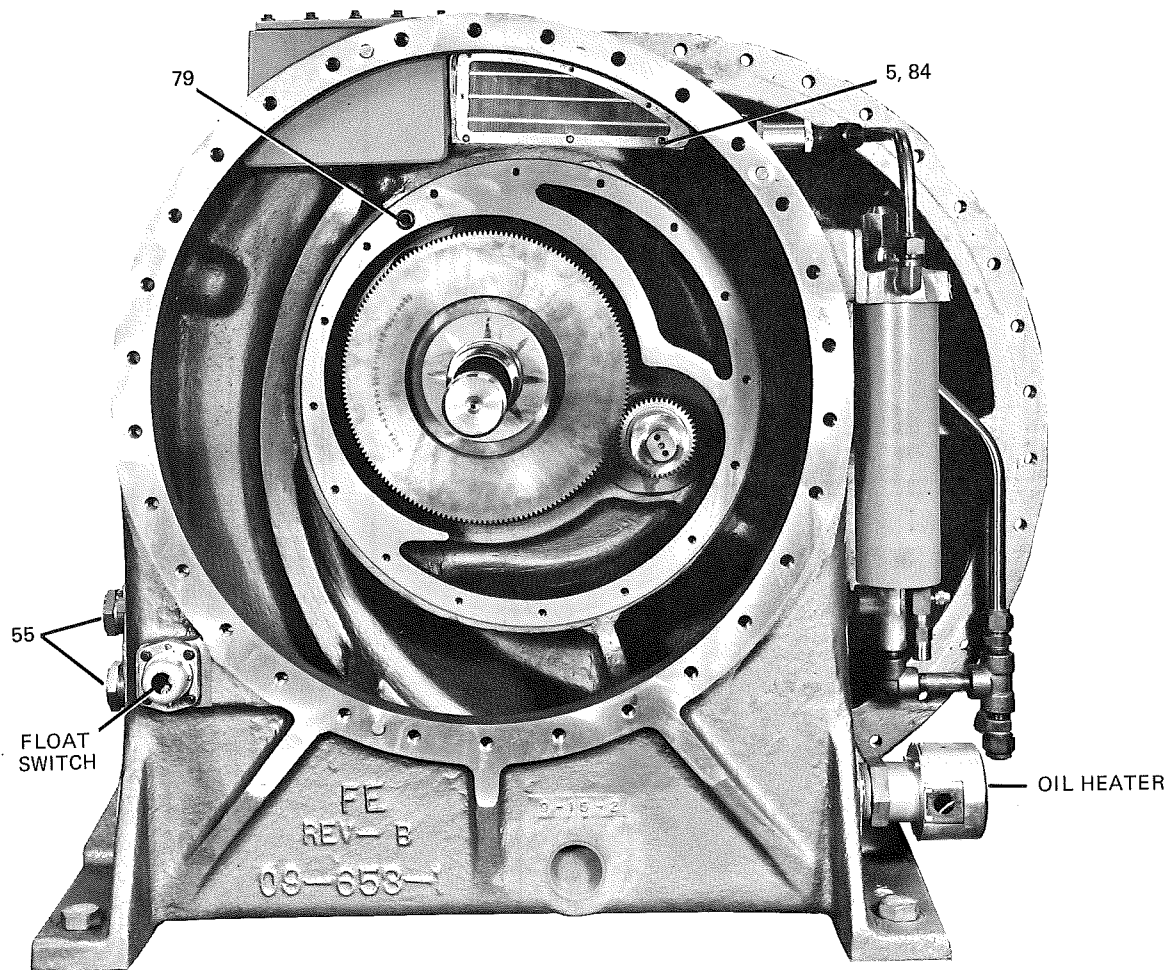


FIG. 6 — COMPRESSOR INTERNAL VIEWS' PARTS LOCATION

COMPRESSOR

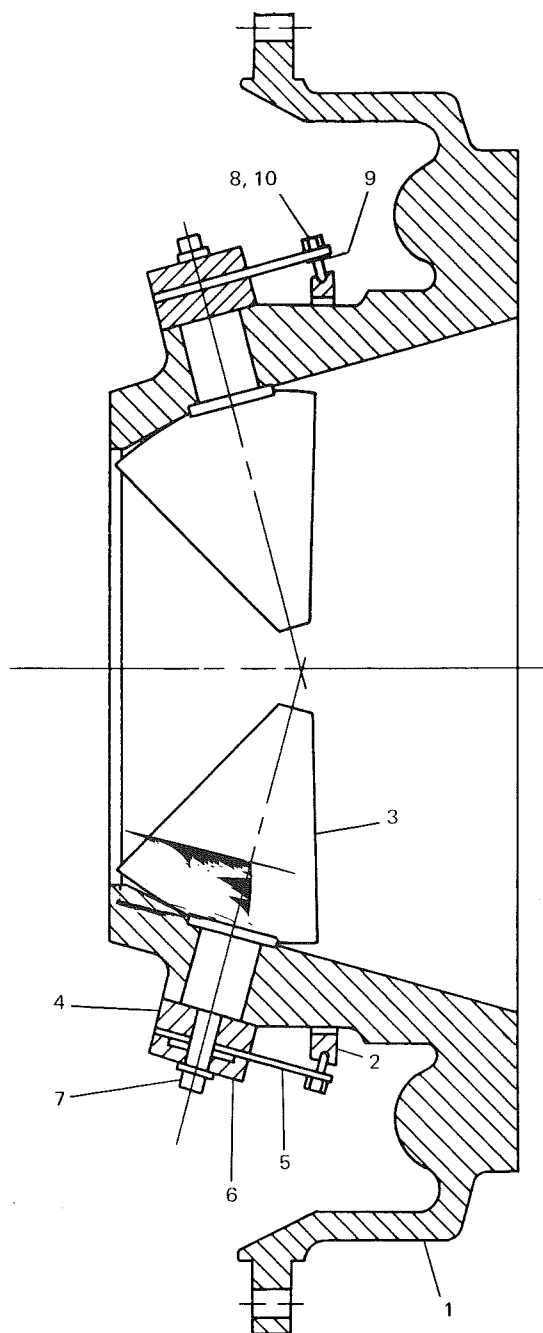
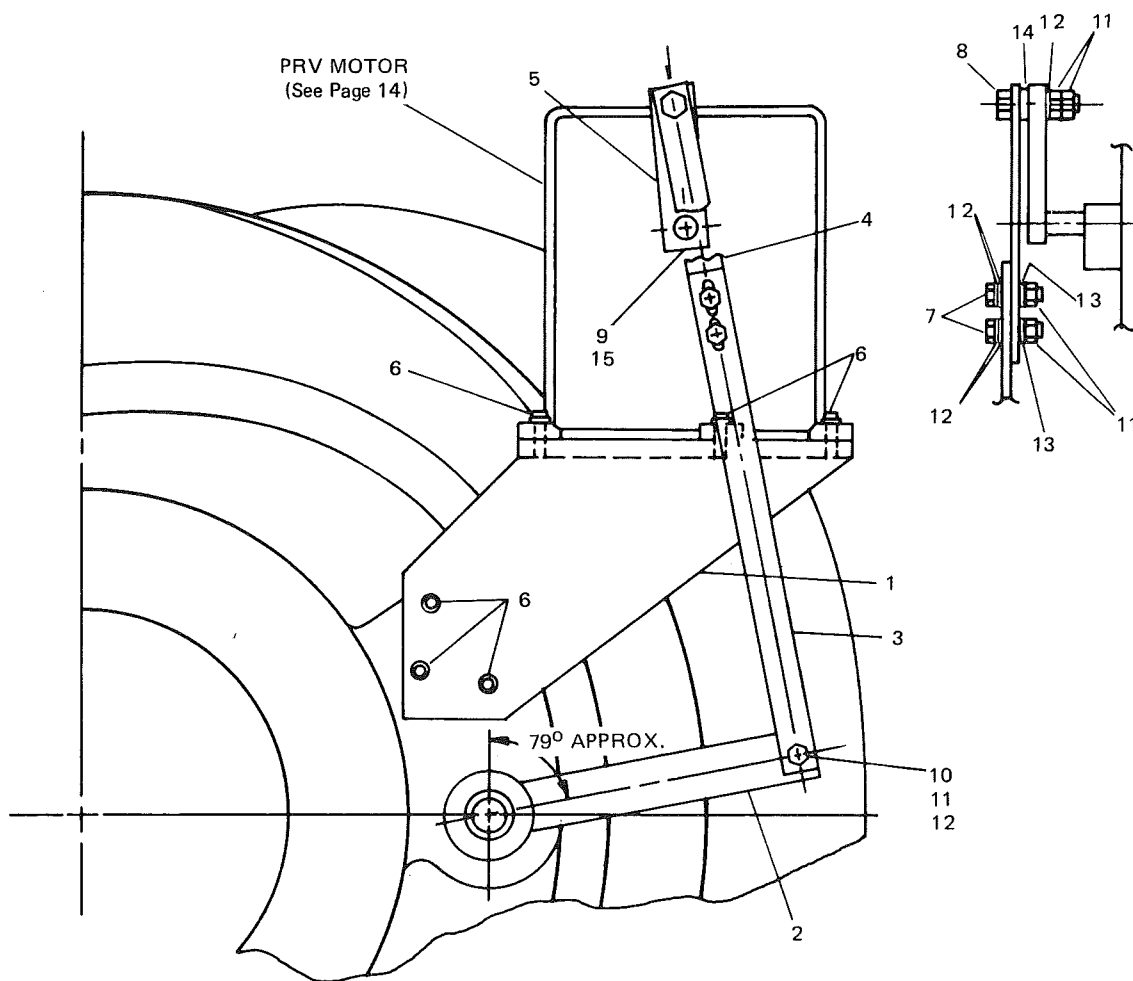


FIG. 7 — PRV ASSEMBLY

Item	Description	Models			
		LKA-65		LKA-73	
		Part No.	Quan.	Part No.	Quan.
1	Hsg.-Pre-Rotation	064-23747	1	064-23748	1
2	Ring-Vane Driving	064-10815	1	064-10815	1
3	Vane-Pre-Rotation	064-18781	9	064-18781	9
4	Washer	064-10819	9	064-10819	9
5	Arm-Vane	064-10818	9	064-10818	9
6	Washer-Special	064-09289	9	064-09289	9
7	Scr, Cap 12 Ft, 5/8-18 X 2-3/4 Lg.	021-11956	9	021-11956	9
8	Screw-Ball	029-07017	9	029-07017	9
9	Washer	021-11973	10	021-11973	10
10	Nut, Hex; 1/4-28 UNF 3B	021-12943	9	021-12943	9



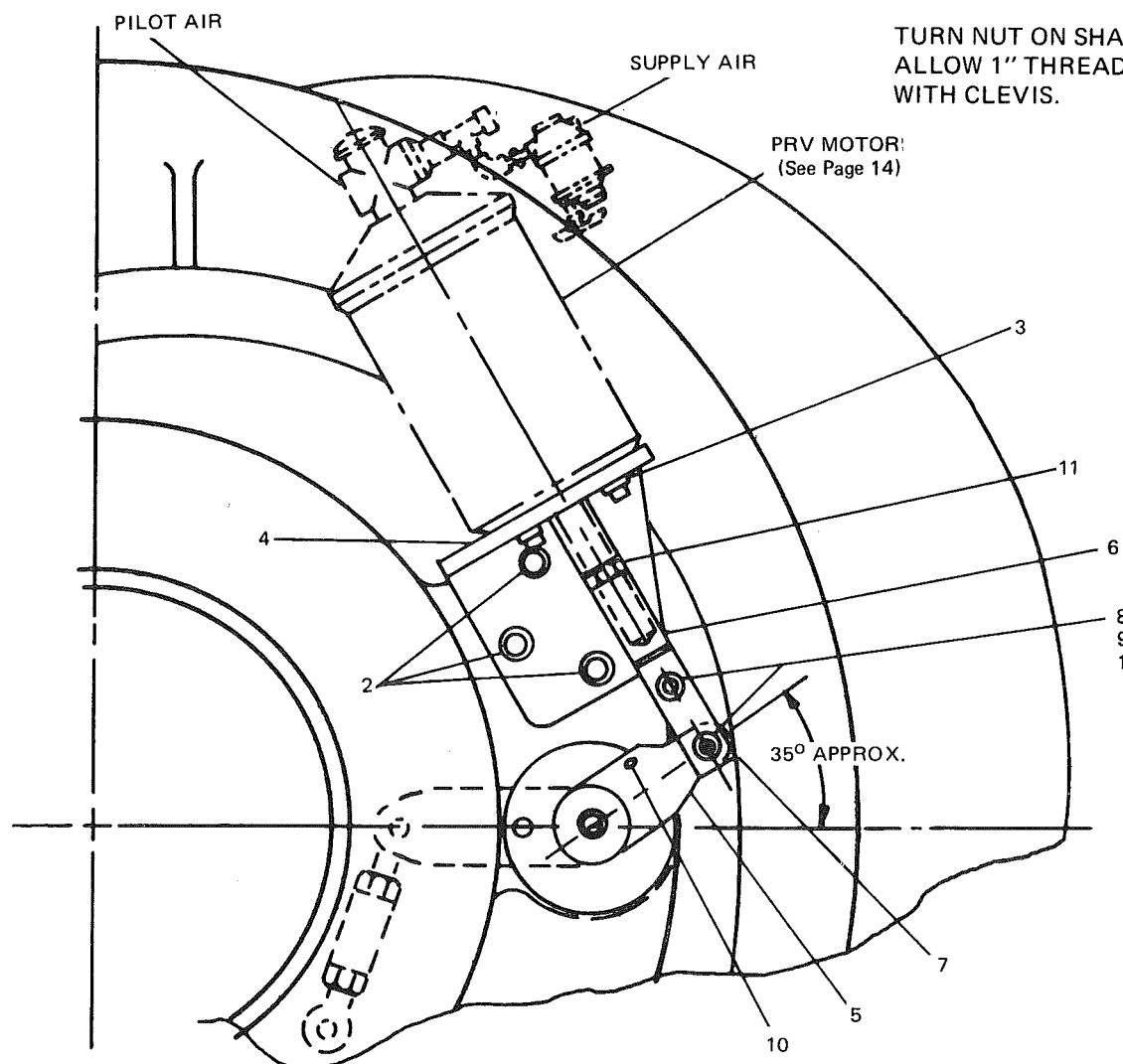
Item	Description	Quan.	Part No.
1	Bracket, Mounting P.R.V. Motor	1	064-39185
2	Lever, P.R.V. External	1	364-28252
3	Link, External P.R.V. Motor	1	064-39186
4	Link, External P.R.V. Motor	1	064-28237
5	Lever, P.R.V. Motor	1	064-39187
6	Screw, Cap 12 Pt. Hd. 3/8-16 X 1-1/8 Lg.	6	021-11148
7	Screw, Cap Hex. Hd. 1/4-20 X 1 Lg.	2	021-11914
8	Bolt, Shoulder 1/4-20 X 1-5/8 Lg.	1	064-28286
9	Screw, Set Hex. Soc. #10-24 X 3/8 Lg.	1	021-03910
10	Bolt, Shoulder 1/4-20 X 1-3/8 Lg.	1	064-28262
11	Nut, Hex 1/4-20 UNC	6	021-00450
12	Washer, Plain 9/32 I.D.	6	021-05165
13	Lockwasher, Spring 1/4	2	021-05267
14	Ring, Fill	1	064-29258
15	Sealer, Grade CV	.010	013-01678

NOTE: VIEW SHOWING LINKAGE IN CLOSED POSITION.
VANES MUST BE FULLY CLOSED WHEN MOTOR IS AT ITS
CCW STOP (FACING CRANK ARM END) POSITION. VANE
MUST TRAVEL TO OPEN OR BEYOND AT THE EXTREME
CW MOTOR POSITION.

FIG. 8— PRV PNEUMATIC EXTERNAL LINKAGE

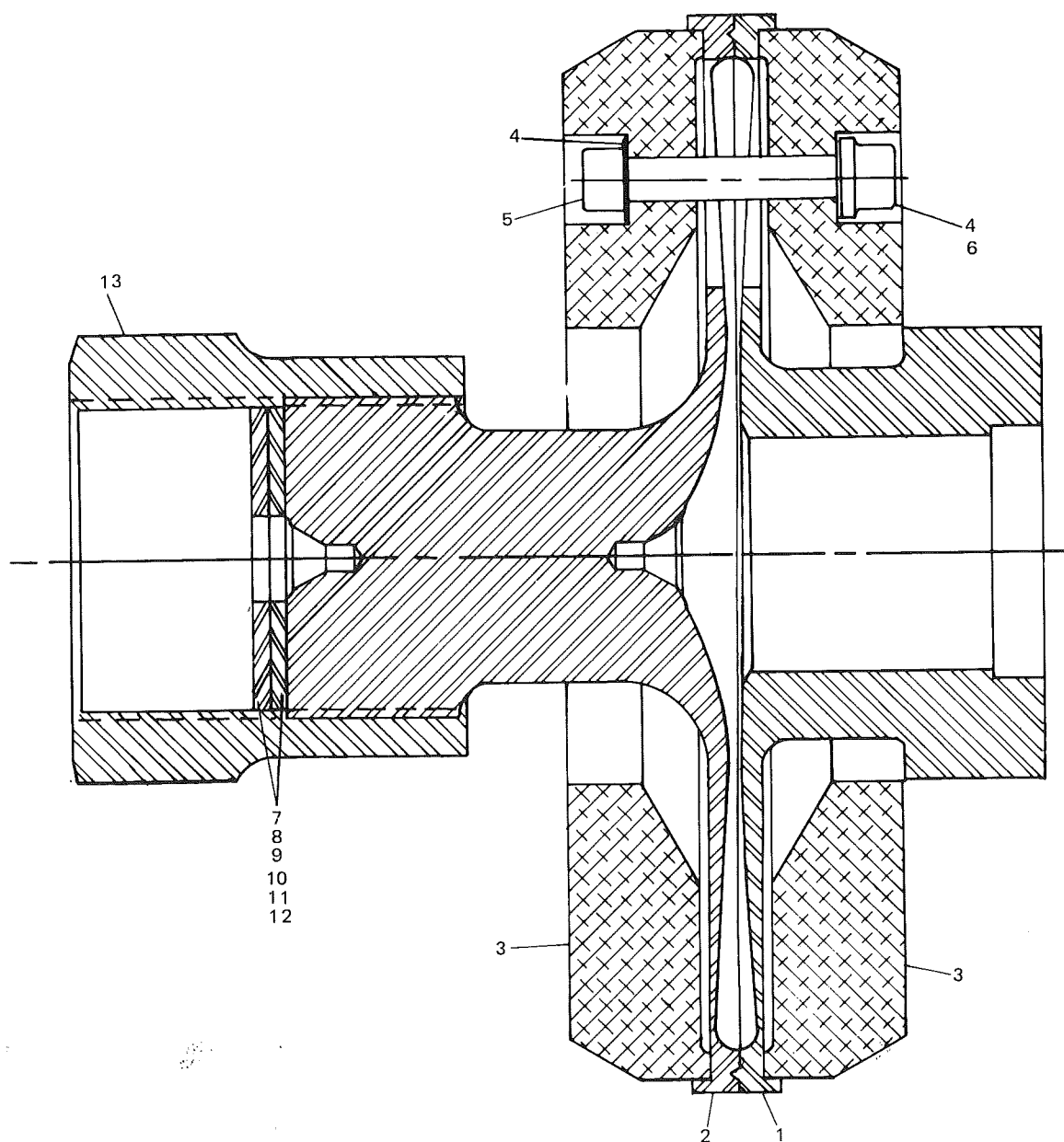
VANES & MOTOR ARE TO BE IN
CLOSED POSITION WHEN
ASSEMBLING.

TURN NUT ON SHAFT TO
ALLOW 1" THREAD ENGAGEMENT
WITH CLEVIS.



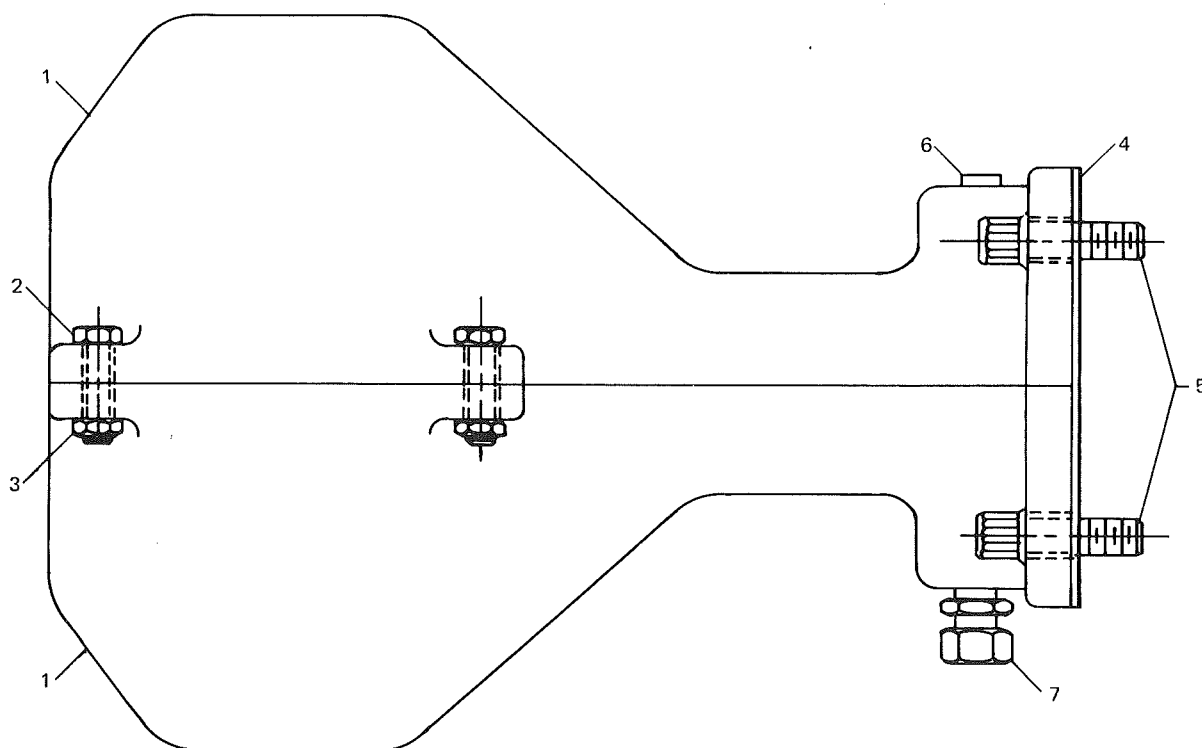
Item	Description	Quan.	Part No.
1	Cot. Pin 3/32 Dia. X 3/4 Lg.	4	021-01083
2	Screw Cap 12 Pt. Hd. 3/8-16 UNC-3A X 1-3/8 Lg.	3	021-11986
3	Screw Cap 12 Pt. Hd. 3/8-16 UNC X 3A X 1-1/4 Lg.	4	021-11141
4	Bracket, Mounting	1	064-27596
5	Lever	1	064-25791
6	Clevis	1	064-07125
7	Link	2	064-25792
8	Pin 3/8 Dia. X 1-1/2 Lg.	2	064-07127
9	Washer, 13/32 I.D. X 13/16 O.D.	4	021-01274
10	Pin Insert 3/32 Dia. X 1-1/8 Lg.	1	029-05900
11	Nut, Hex, Heavy 5/8-18UNF	1	021-07787

FIG. 9—PRV ELECTRONIC EXTERNAL LINKAGE



Item	Description	Quan.	60 Cycle 1-7/8-Coupling Part No.	50 Cycle 2-1/2 X 1-7/8-Coupling Part No.
	Complete Coupling Assembly		364-24655	364-29693
1	Hub, Compressor	1	064-14386	064-13862
2	Hub, Driver	1	064-14389	064-29691
3	Ring, Clamp	2	064-24651	064-24652
4	Washer, Coupling	10	064-13865	064-13834
5	Screw, Soc.	5	021-13191	021-11662
6	Nut	5	021-11675	021-10260
7	Spacer .105 Thk.	1	064-14395-001	064-14395-001
8	Spacer .110 Thk.	1	064-14395-002	064-14395-002
9	Spacer .115 Thk.	1	064-14395-003	064-14395-003
10	Spacer .120 Thk.	1	064-14395-004	064-14395-004
11	Spacer .130 Thk.	1	064-14395-005	064-14395-005
12	Spacer .150 Thk.	1	064-14396-006	064-14395-006
13	Nut 12 Pt.	1	064-14392	064-14392

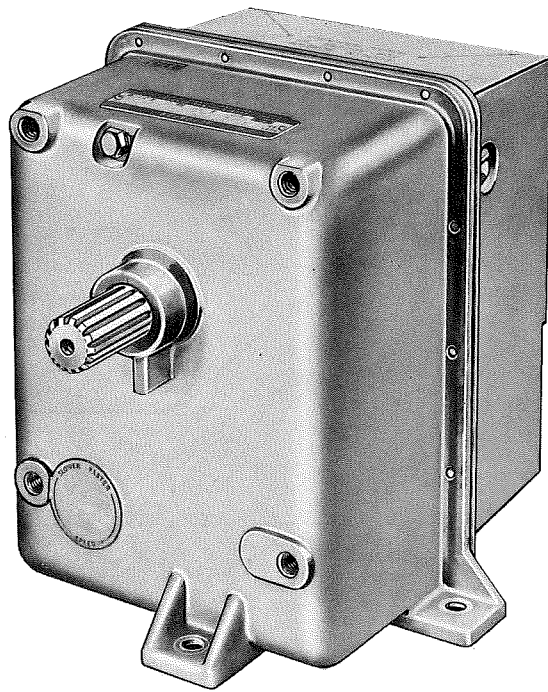
FIG. 10— YORK-FLEX COUPLING PARTS



Item	Description	Quan.	60 Cycle 1-7/8-Coupling Part No.	50 Cycle 2-1/2 X 1-7/8-Coupling Part No.
1	Complete Coupling Guard Assembly		364-33575	364-33579
2	Guard, Coupling	2	364-23999	064-29692
3	Screw, Cap Hex Hd. 1/4-20 UNC 3 X 3/4 Lg.	4	021-01379	021-01379
4	Nut, Hex 1/4-20 UNC	4	021-00450	021-00450
5	Gasket	1	064-22745	064-22745
6	Screw, Cap 12 Pt. Hd. 3/8-16 X 3/4 Lg.	4	021-12120	021-12120
7	Plug, Pipe 1/8 MPT CTS'K.	1	023-01970	023-01970
	Connector, 1/4 Tube X 1/8 MPT	1	023-07151	023-07151

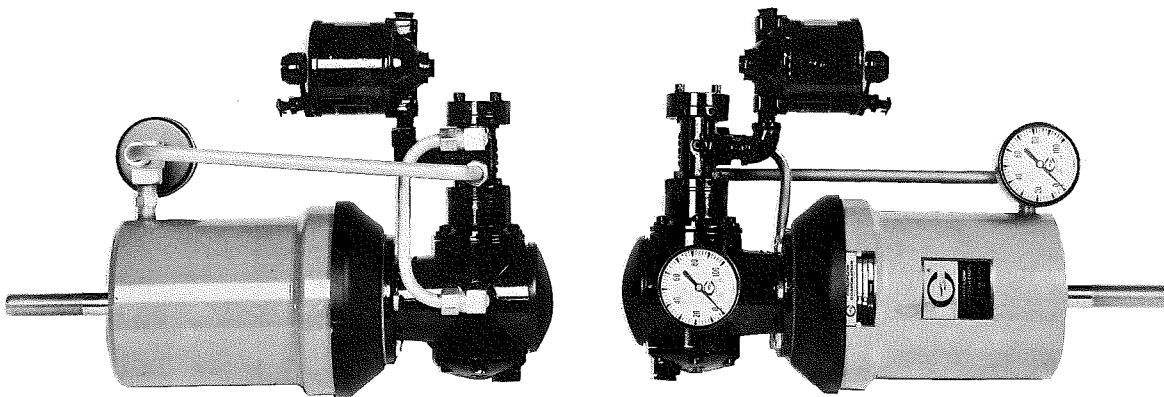
FIG. 11— YORK-FLEX COUPLING GUARD PARTS

PRV—ELECTRIC MOTOR ACTUATORS



Compr. Model	Part No.	Quan.
LKB-65	025-18411	1
LKB-73	025-18411	1

FIG. 12— ELECTRIC MOTOR ACTUATORS



Compr. Model	Part No.	Quan.
LKB-65	024-09425	1
LKB-73	024-09425	1

FIG. 13— PRV – AIR OPERATED (PNEUMATIC) POSITIONERS

COMPRESSORS

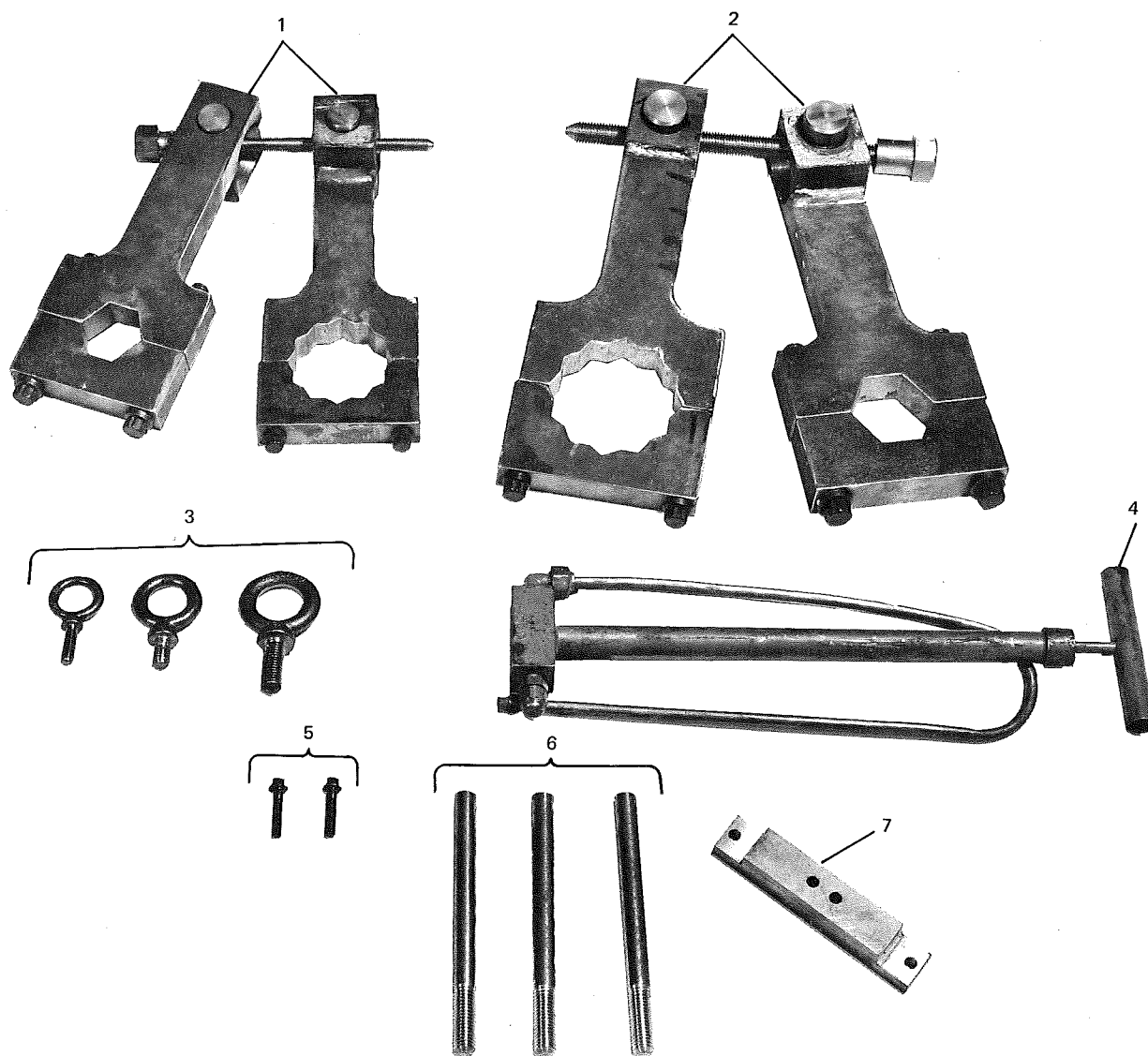
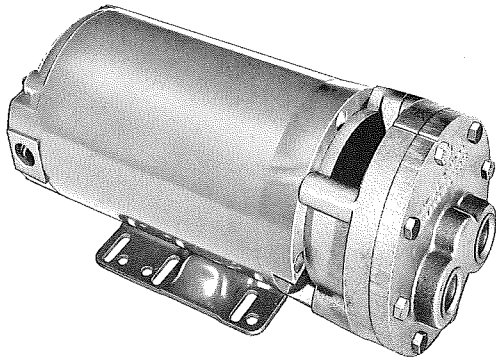


FIG. 14 — COMPRESSOR TOOLS FOR MODELS LKB65 & LKB73

Item	Tool Description	Quan.	Tool Kit for 60 Cycle	Tool Kit for 50 Cycle
1	Complete Tool Kit	1	464-27541	464-29700
2	Wrench, Coupling 1-7/8	1	364-14916	364-14916
3	Wrench, Coupling 2-1/2	1	—	364-13875
	Eyebolts,			
	1/2"	1	021-00306	021-00306
	3/8"	1	021-13498	021-13498
	5/8"	1	021-12366	021-12366
4	Pump, Hand Oil	1	470-10654	470-10654
5	Screw, Cap 12 Pt. Hd. 5/16-18UNC-2A X 1-3/8 Lg.	2	021-12465	021-12465
6	Guide Studs 5/8" X 7-1/2" Lg.	3	064-06798	064-06798
7	Tool, H.S. Shaft Locking 1" thk. X 1-1/4" X 6-1/2"	1	064-27542	064-27542

OIL PUMP & MOTOR ASSEMBLY



OIL PUMP SEAL KIT — Part No. 026-20340

Watts	Volts	NEMA	Part No.
1500	120	1	025-17700
1500	240	1	025-17787
1500	120	4 & 7	025-17701
2500	120	4 & 7	025-16703
2500	480	4 & 7	025-15977
2500	277	1	025-16212
2500	480	1	025-16298
2500	550	1	025-16950-900
2500	120	1	025-16137

Voltage	Complete Motor & Pump Assembly			Replacement Motors			Replacement Oil Pumps
	Part No. Standard (Nema 1)	Part No. Nema 4 & 7	Part No. TEFC	Part No. Standard (Nema 1)	Part No. Nema 6 & 7	Part No. TEFC	Part No.
208-3-60	026-20166			024-18565			026-20341
220/440, 230/460, 240/480-3-60	026-20165	026-20940	026-20170	024-18562	024-18564	024-18563	026-20341
550/575/600-3-60	026-20167			024-18566			026-20341
190/380-3-50	026-20168	026-20941	026-20171	024-18567	024-18569	024-18568	026-20341
415-3-50	026-20169	026-20908		024-18570			026-20341

FIG. 15 — OIL PUMP & MOTOR ASSEMBLY

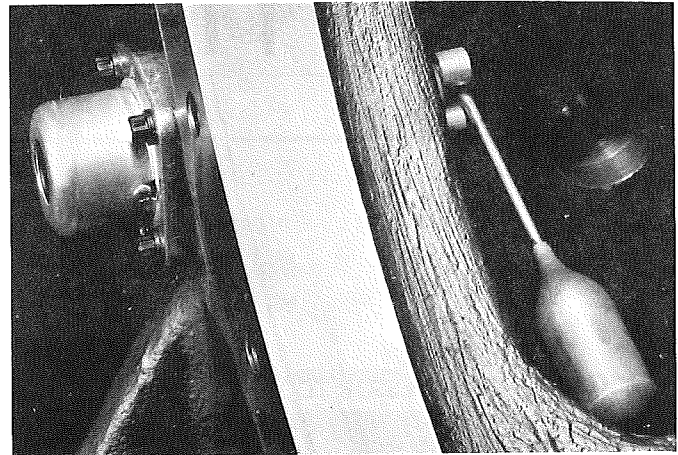
OIL HEATERS

Description	Part No.	Quan.
1500W, 120V	025-17700	1

Note: Special heater, emersion style 2, 2500 watt, 120 volt, used per outdoor installation. Part Number 025-16137.

HIGH OIL TEMP. CONTROL (HOT)

Description	Part No.	Quan.
High Oil Temperature (Hot)	025-15381-003	1
High Discharge Temperature Control (HDTC)	025-15381-002	1



FLOAT SWITCH OIL RETURN

Part No.
024-16762

LUBRICANTS, OILS AND COMPOUNDS

Description	Part No.
Thread Compound, Air High Pressure—1/4 Pt. Can	464-14934
Coating Lubricant-Molykote, Type Z—2 Oz. Can	364-21508
Oil, York Refrigeration-Type B,—5 Gal. Can	011-00309