

SINGLE STAGE CENTRIFUGAL OPEN COMPRESSOR

COMPRESSOR

**LTC47
LTC48
LTC53
LTC59**

SYSTEM

**OT5, 6
OT7, 8
OT10, 11, 12
OT13, 14**

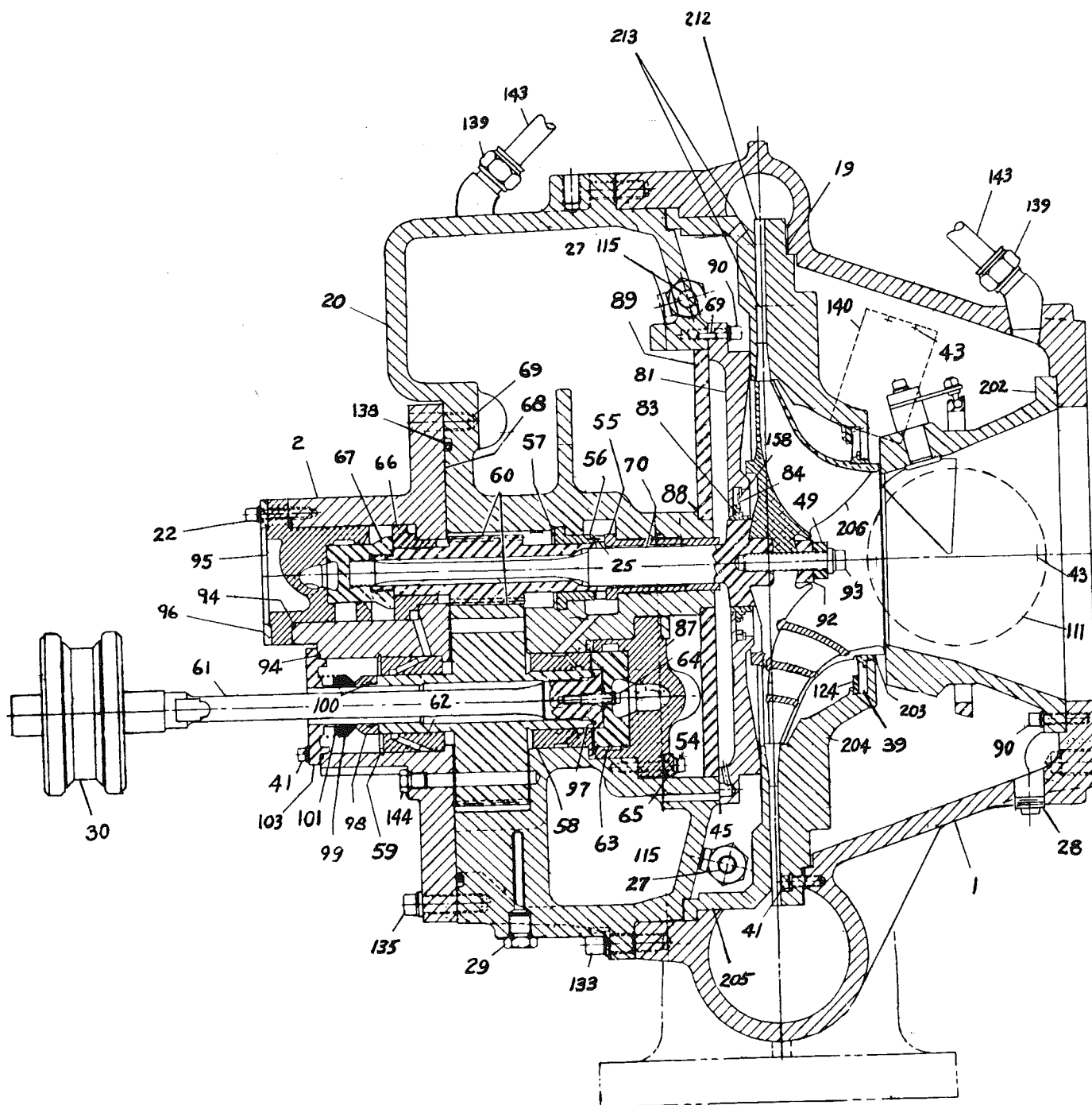


FIG. 1—Cross Section View of Compressor - Open

ITEM	PART NO.	QTY.	DESCRIPTION
1	064-21048	1	SCROLL, ROTOR
2	064-12263	1	HOUSING, BEARING
3	023-07342	1	CPLG. CINCH TYPE 5/8 TUBE X 1/2 FPT
4	023-02015	1	PLUG, PIPE SQ. CTSK. 1 1/4
5	021-03745	1	SCR. MACH. P R R HD.
6	064-07937	1	CONN. 1/2 TUBE X 1/2 MPT
7	029-11856	1	SHAFT, CONTROL
8	028-07407	1	RING, "O", 2 OD X 1.799 ID X .103 SECT.
9	021-12039	8	SCR. CAP 12 PT. HD. 5/16 - 18 UNC X 1 LG.
10	364-20722	1	LEVER, PRV. INT.
11	064-10823	1	ROD. ADJ. 3/4 DIA. X 2 7/8 LG.
12▲	028-04522	2	RING, "O" 1 1/4 OD X 1 ID X 1/8 SECT.
13	021-11998	1	SCR. CAP 12 PT. HD. 1/2 - 20 UNF X 6 LG.
14	026-13123	1	GLASS, OIL SIGHT
15	021-11973	AS REQD	WASHER, 1/2 OD X 1 7/64 ID X .016 THK.
16	021-01392	1	SCR. CAP HEX HD. 1/4 - 20 UNC X 1 1/4
17	023-02027	1	PLUG, PIPE 2"
18	021-00450	8	NUT, HEX 1/4 - 20 UNC
19	064-20802	1	GASKET, NOZZLE BASE PLATE
20	064-19267	1	SUPPORT, ROTOR
21	064-13909	1	COVER, SHAFT CONT. 4 DIA. X 1 17/32 THK.
22	021-11175	8	SCR. CAP 12 PT. HD. 3/8 - 16 UNC X 1 1/2 LG.
23▲	028-00781	1	GASKET, 2 1/2 OD X 2 ID X 1/16 THK.
24▲	028-04353	1	RING, "O" 1 3/8 OD X 1 1/8 ID X 1/8 SECT.
25▲	029-03990	1	PIN, ROLL 1/8 DIA. X 5/16 LG.
26	364-13893	1	PUMP, JET OIL
27	023-06818	2	ELL. 90° 5/8 TUBE X 1/2 MPT
28	023-04208	2	PLUG, PIPE SQ. CSK. 3/4 - 14 NPT
29	023-07063	1	PLUG, "O" RING 1 1/16 - 12 UNF
30	364-12417-003	1	CPLG. YORK-FLEX
31	064-10825	1	SCR. SPL. 3/8 - 24 UNF X 1 7/8 LG.
32	064-09287	1	SCR. SPL. 3/8 - 24 UNF X 2 3/4 LG.
33	029-08343	2	BRG. ROD END SPHERICAL
34	021-10170	3	NUT, HEX REG. 3/8 - 24 UNF
35	021-05269	1	LOCKWASHER, SPG. 3/8
36	064-09288	1	FILLPIECE, 3/4 DIA. X 2 3/32 LG.
37	064-10821	1	FILLPIECE, 3/4 DIA. X 1 1/4 LG.
38	067-39603	1	NIPPLE, PIPE 1/2 SCHED. 80 X 2 LG.
39	064-13817	1	WASHER, FLAT SPG. .037 THK. X 8 5/8 DIA.
40	064-15981	1	CONN. VENT TUBE 5/8 OD X .049 WALL
41	021-11149	10	SCR. CAP 12 PT. HD. 3/8 - 16 UNC-3A X 1 LG.
42	029-04842	1	PIN, INSERT 3/32 DIA. X 5/8 LG.
43	021-03720	8	SCR. DRIVE #4 X 1/4 LG.
44	064-08815	1	WASHER, SPEC. 1 3/4 DIA. X 1/2 THK.
45▲	070-15440	1	GASKET OIL SEP. 16 5/8 DIA. X 1/64 THK.
46	023-01969	1	PLUG, PIPE, 1/8
47	029-00334	1	NAMEPLATE, ROTATION
48	021-01083	1	PIN, COTTER 3/32 X 3/4 LG.
49	064-16500	1	WASHER, SPEC. 1 1/4 OD X .500 THK.
50	013-01678	AS REQD	LOCTITE NUT LOCK TYPE CV (4-10)
51	023-01690	1	ELBOW, STREET 45° X 1/2
52	023-06813	1	ELBOW, 90° 1/4 TUBE X 1/4 MPT
53	023-04152	2	PLUG, PIPE 1/4
54	021-11916	6	SCR. CAP 12 PT. HD. 3/8 - 16 UNC X 3 X 1 3/4 LG.
55▲	064-09241	1	BRG. MAIN SET
56▲	064-12285	1	BRG. PINION GEAR
57	029-07213	1	RING, INT. RET.
58▲	064-13837	1	BRG. GEAR FRONT
59	029-06321	1	RING, INT. RET.
60	SEE SYSTEM DATA PLATE	1	GEAR AND PINION
61	064-15471	1	SHAFT, DRIVE 2 DIA. X 15 23/64 LG.
62	064-12288	1	BRG. GEAR REAR
63	064-13828	1	PUMP CENT. OIL 3 1/2 DIA. X 1.204 LG.
64	021-11532	1	SCR. CAP 12 PT. HD. 5/16 - 24 UNF X 1 3/4 LG.
65	064-11649	6	WASHER, FLAT 3/4 X 25/64 X 5/16 THK.
66▲	064-12284	1	BRG. THRUST
67▲	064-09587	1	COLLAR, THRUST 2 1/2 DIA. X 2.261 LG.
68▲	064-12414	1	GASKET, BEARING HSG., 14 1/2 DIA. X .010
69	029-04138	3	PIN, INSERT 3/16 DIA. X 1/2 LG.
70	064-12512	1	SHAFT, MAIN 3 1/4 DIA. X 14 25/64 LG.
71	026-09306	1	PUMP, AUX. OIL
71A	026-10904	1	AUX. OIL PUMP SHAFT SEAL KIT
72	022-02417	1	VALVE CHECK 3/8 FPT X 3/8 MPT
73	021-01379	1	SCR. CAP HEX HD. 1/4 - 20 UNC X 3/4 LG.
74	064-13895	1	TUBE EXTENSION
75▲	028-04861	1	RING, "O" 1 7/8 OD X 1 5/8 ID X 1/8 SECT.
76	368-00007	1	VALVE, STOP ANGLE 3/4 TYPE 1
77	064-20636	1	ADAPTER
78▲	028-06932	1	RING, "O" 1 OD X 7/8 ID X 1/16 SECT.

ITEM	PART NO.	QTY.	DESCRIPTION
79	364-13347	1	ELIMINATOR, OIL (CAN TYPE)
80▲	064-12101	1	GASKET, OIL JET PUMP 3 1/2 DIA. X 1/32
81	064-21066	1	PLATE-OIL SEPARATOR
82	021-12338	2	BOLT-U, 1/4
83▲	064-21073	1	RING, SEAL
84	064-12887	1	WASHER, SPRING
85	023-04321	1	ELBOW, SCREW 45° 3/4
86	023-04313	1	ELBOW, SCREW 90° 3/4 FPT
87	064-13838	1	HOUSING, OIL PUMP
88▲	070-12260	1	GASKET, RD. 3 3/4 DIA. X 1/64 THK.
89	064-12259	1	PLATE, SEAL
90	021-11141	19	SCR. CAP 12 PT. HD. 3/8 - 16 UNC X 1 1/4 LG.
91	021-11139	4	SCR. CAP 12 PT. HD. 3/8 - 16 UNC X 7/8 LG.
92	064-09228	1	COLLAR, IMPELLER CLAMPING
93	021-12347	1	SCR. CAP 12 PT. HD. 5/8 - 18 UNF X 2 3/4 LG.
94▲	028-04409	† 2	RING "O" 3 1/2 OD X 3 1/4 ID X 1/8 SECT.
95	064-12317	1	COVER, OIL PUMP
96	064-12548	1	PLATE, PRESS. OIL PUMP COVER
97▲	028-04479	1	RING, "O" 1 11/16 OD X 1 1/2 ID X 3/32 SECT.
98	064-12318-005†	1	COLLAR, SHAFT SEAL
99	064-15385-006†	1	RING, SHAFT SEAL
100	028-4408	† 2	RING "O" 1 5/8 OD X 1 3/8 ID X 1/8 SECT.
101	029-11568-002†	1	SPRING, HELICAL
102	023-07559	1	CPLG. CINCH TYPE 1/2 TUBE X 1/2 FPT
103	064-23942	† 1	COVER, SEAL
104	364-13099	1	ELIMINATOR, OIL (FRAME TYPE)
105	025-09450	1	HEATER, CTG TYPE 120V-285W
106▲	026-07446	1	ELEMENT FILTER
107	029-07217	1	SPRING, FILTER
108▲	028-04349	1	RING "O" 4 1/2 OD X 4 ID X 1/8 SECT.
109	064-20822	1	COVER, OIL FILTER
110	026-10787	1	COOLER, OIL
111	029-00368	1	NAMEPLATE, PUB. 5" DIA.
112	023-06816	1	ELBOW 90° 1/2 OD X 3/8 MPT
113	023-04353	1	TEE, SCREW 3/4 X 3/8 X 3/4
114	023-01994	3	PLUG, PIPE HEX SOC HD. X 1/2
115	003-00810	9 FT.	TUBING 5/8 OD X .049 WALL
116	064-14790	1	PLUNGER BY-PASS VALVE
117	065-06394	1	CAP, SEAL OIL REG. VALVE
118▲	028-03021	1	GASKET, 7/8 OD X 9/16 ID X 5/64 THK.
119	029-06143	1	SPRING, HELICAL
120	025-13722	1	CONTROL, TEMP.
121	025-04785	2	BOX, JUNCTION
122	025-01732	2	COVER, JUNCTION BOX
123	025-05701	4	LOCKNUT, ELECT. 1/2
124	029-08311	1	RING, RET. INT.
125	023-04359	1	TEE, SCREW 1/2 X 1/2 X 3/4
126	023-06803	1	CONN. 1/2 TUBE X 3/8 MPT.
127	023-06817	2	ELL. 90° CINCH TYPE 1/2 TUBE X 1/2 MPT
128	023-06818	3	ELL. 90° CINCH TYPE 5/8 TUBE X 1/2 MPT
129	029-10646	3	PIN, DOWEL, 1/2 DIA. X 2 LG.
130	023-06802	1	CONN. CINCH TYPE 3/8 TUBE X 3/8 MPT
131	023-01983	1	PLUG, PIPE 3/8 SQ.
132	368-00003	1	VALVE, STOP ANGLE 3/8
133	021-11159	21	SCR. CAP 12 PT. HD. 5/8 - 11 UNC - 3 X 1 1/2 LG.
134	021-01797	1	SCR. MACH. P R R HD. #10-24 UNC X 3/4 LG.
135	021-11127	18	SCR. CAP 12 PT. HD. 5/8 - 11 UNC - 3 X 1 3/4 LG.
136	070-01294	2	NIP. PIPE 1/2 SCHED. 40 X 2 LG.
137	003-00235	2 FT.	TUBE, 1/4 OD X .035 WALL
138▲	028-04989	1	RING, "O" 14.600 ID X .275 SECT.
139	023-07264	3	ELL. 45° 3/4 TUBE X 3/4 MPT
140	029-08252	1	NAMEPLATE, DATA COMPR.
141	003-00243	1 1/2 FT.	TUBE, 1/2 OD X .049 WALL
142	003-00240	2 FT.	TUBE, 3/8 OD X .049 WALL
143	003-00952	5 FT.	TUBE, 3/4 OD X .049 WALL
144	023-07158	1	PLUG, FLARELESS "O" RING 5/16 - 18
145	025-04866	2	BUSHING, ELECT. 1/2
146	070-01541	3	NIP. PIPE 3/4 SCHED 80 X 1 3/8 LG.
147	023-04010	2	BUSHING, PIPE, 3/4 MPT X 1/2 FPT
148	023-06805	1	CONN. 5/8 TUBE X 1/2 MPT
149	064-22207	1	CONN. OIL COOLER TO JET PUMP
155	023-07197	2	ELL. 45° 5/8 TUBE X 1/2 MPT
156	070-16054	1	NIPPLE, PIPE 3/4 SCH. 80 X 2 LG.
157	023-06807	1	CONN. 3/4 TUBE X 3/4 MPT
158	029-05601	1	RING, INTERNAL RET.
159	021-11735	3	SCREWS, CAP, 12 PT. HD. 5/8 - 11 UNC X 3 LG.
160	064-17699	3	FILL PC'S; 3/4" SCH. 40 X 1 1/8 LG.
161	021-01418	4	SCR. CAP HEX HD. 5/16 - 18 UNC X 3/4 LG.
162	021-00461	4	NUT, HEX 5/16 - 18 UNC

▲ PARTS INCLUDED IN KIT 464-21529

† PARTS INCLUDED IN SHAFT SEAL KIT 464-24257

VARIABLE COMPONENTS
ELECTRIC P R V MOTOR

ITEM NO.	DESCRIPTION	LINE NO. 1 364-20771 LTB47 ARRGT#1	Q U A N	LINE NO. 2 364-20772 LTB47 ARRGT#2	Q U A N	LINE NO. 3 364-20773 LTB48 ARRGT#1	Q U A N	LINE NO. 4 364-20774 LTB48 ARRGT#2	Q U A N	LINE NO. 5 364-20775 LTB53 ARRGT#1	Q U A N	LINE NO. 6 364-20776 LTB53 ARRGT#2	Q U A N	LINE NO. 7 364-20777 LTB59 ARRGT#1	Q U A N	LINE NO. 8 364-20777 LTB59 ARRGT#2	Q U A N
202	DEVICE, PRE - ROTATION	364-15260	1	364-15260	1	364-15260	1	364-15260	1	364-15261	1	364-15261	1	364-15262	1	364-15262	1
203	RING, SEAL IMPELLER	064-13814	1	064-13814	1	064-13814	1	064-13814	1	064-13815	1	064-13815	1	064-13816	1	064-13816	1
204	PLATE, NOZZLE BASE	064-20798	1	064-20799	1	064-20799	1	064-20799	1	026-20899	1	064-20800	1	064-20801	1	064-20801	1
205	PLATE, DIFFUSER	064-12769	1	064-12769	1	064-12769	1	064-12769	1	064-12769	1	064-12769	1	064-12768	1	064-12768	1
206	IMPELLER	064-12304	1	064-12304	1	064-12304	1	064-12304	1	064-12306	1	064-12306	1	064-12305	1	064-12305	1
207	SCREW, 12 PT. HD.	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4
208	BRACKET, AUX.OIL PUMP	364-21071	1	364-22243	1	364-21071	1	364-22243	1	364-21071	1	364-22243	1	364-21071	1	364-22243	1
209	CONTROL, OIL FLOAT SWITCH	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1
210	GLASS, OIL SIGHT	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1
211	RING, "O" 2 OD X 1.799 ID X .103 THK.	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1
212	VANE	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8
213	SCR, MACH C'TSH 1/4-20UNC X 1/2 LG.	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16
214	LEVER, P R DEVICE (EXTERNAL)	064-09310	1	064-09310	1	064-09310	1	064-09310	1	025-09359	1	025-09359	1	025-09359	1	025-09359	1
215	MOTOR, P R DEVICE	025-09359	1	025-09359	1	025-09359	1	025-09359	1	025-09359	1	025-09359	1	025-09359	1	025-09359	1
215A	AUX SWITCH	024-08864	1	024-08864	1	024-08864	1	024-08864	1	024-08864	1	024-08864	1	024-08864	1	024-08864	1
216	BOLT, SHOULDER	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1
217	SCREW, CAP	021-11994	1	021-11994	1	021-11994	1	021-11994	1	021-11994	1	021-11994	1	021-11994	1	021-11994	1
219	LINK, EXT.	064-20789	1	064-20789	1	064-20789	1	064-20789	1	064-20789	1	064-20789	1	064-20789	1	064-20789	1
220	NUT, HEX 1/4-20 UNC	021-00450	2	021-00450	2	021-00450	2	021-00450	2	021-00450	2	021-00450	2	021-00450	2	021-00450	2
223																	
224																	

VARIABLE COMPONENTS
AIR P R V MOTORS

ITEM NO.	DESCRIPTION	LINE NO. 9 364-20779 LTB47 ARRGT#1	Q U A N	LINE NO. 10 364-20780 LTB47 ARRGT#2	Q U A N	LINE NO. 11 364-20781 LTB48 ARRGT#1	Q U A N	LINE NO. 12 364-20782 LTB48 ARRGT#2	Q U A N	LINE NO. 13 364-20783 LTB53 ARRGT#1	Q U A N	LINE NO. 14 364-20784 LTB53 ARRGT#2	Q U A N	LINE NO. 15 364-20785 LTB59 ARRGT#1	Q U A N	LINE NO. 16 364-20786 LTB59 ARRGT#2	Q U A N
202	DEVICE, PRE - ROTATION	364-15260	1	364-15260	1	364-15260	1	364-15260	1	364-15261	1	364-15261	1	364-15262	1	364-15262	1
203	RING, SEAL IMPELLER	064-13814	1	064-13814	1	064-13814	1	064-13814	1	064-13815	1	064-13815	1	064-13816	1	064-13816	1
204	PLATE, NOZZLE BASE	064-20798	1	064-20799	1	064-20799	1	064-20800	1	064-20800	1	064-20800	1	064-20801	1	064-20801	1
205	PLATE, DIFFUSER	064-12769	1	064-12769	1	064-12769	1	064-12769	1	064-12769	1	064-12769	1	064-12768	1	064-12768	1
206	IMPELLER	064-12304	1	064-12304	1	064-12304	1	064-12304	1	064-12306	1	064-12306	1	064-12305	1	064-12305	1
207	SCREW, 12 PT. HD.	021-11394	4	021-11394	4	021-11394	4	021-11394	4	021-11394	4	021-11394	4	021-11394	4	021-11394	4
208	BRACKET, AUX.OIL PUMP	364-21071	1	364-22243	1	364-21071	1	364-22243	1	364-21071	1	364-22243	1	364-21071	1	364-22243	1
209	CONTROL, OIL FLOAT SWITCH	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1	025-10017	1
210	GLASS, OIL SIGHT	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1	026-13123	1
211	RING, "O" 2 OD X 1.799 ID X .103 THK.	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1	028-07407	1
212	VANE	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8	064-16874	8
213	SCR, MACH C'TSH 1/4-20UNC X 1/2 LG.	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16	021-08182	16
214	LEVER, P R DEVICE (EXTERNAL)	064-17898	1	064-17898	1	064-17898	1	064-17898	1	064-17898	1	064-17898	1	064-17898	1	064-17898	1
215	MOTOR, P R DEVICE	024-09599	1	024-09599	1	024-09599	1	024-09599	1	024-09599	1	024-09599	1	024-09599	1	024-09599	1
216	SCREW, CAP	021-02399	1	021-02399	1	021-02399	1	021-02399	1	021-02399	1	021-02399	1	021-02399	1	021-02399	1
219																	
220																	
223	BRACKET, P R MOTOR MTG.	364-16838	1	364-16838	1	364-16838	1	364-16838	1	364-16838	1	364-16838	1	364-16838	1	364-16838	1
224	SCR, CAP HEX.HD.	021-08310	3	021-08310	3	021-08310	3	021-08310	3	021-08310	3	021-08310	3	021-08310	3	021-08310	3

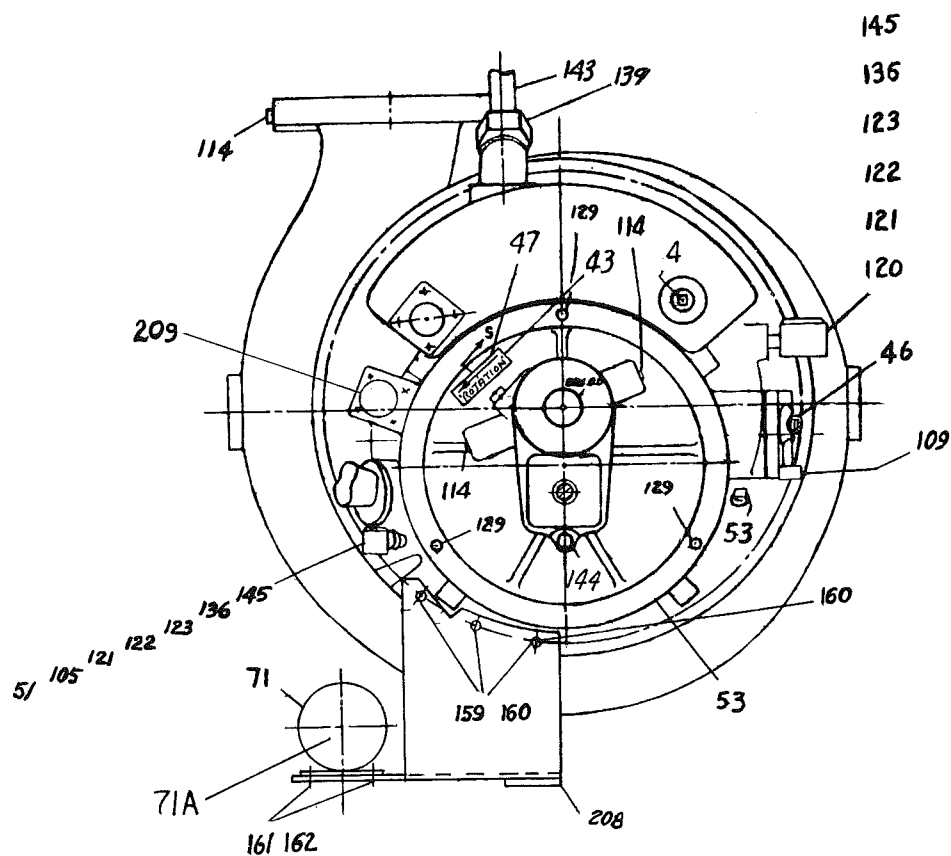


FIG. 2—Front View Compressor

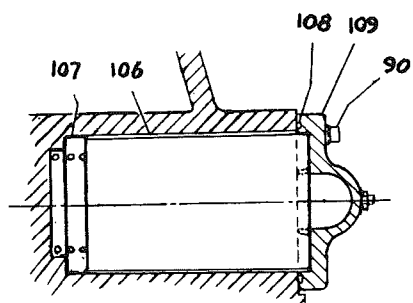


FIG. 3—Filter

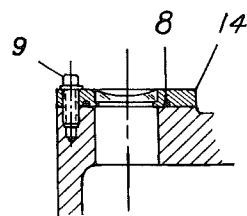


FIG. 4—Oil Sight Glass

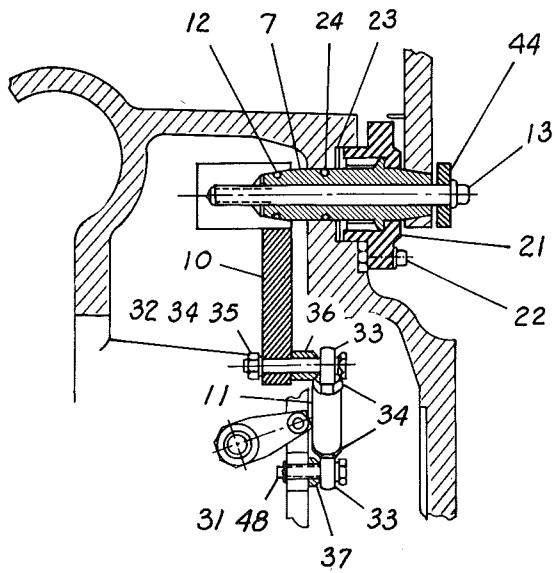


FIG. 5—Internal PRV Control Shaft

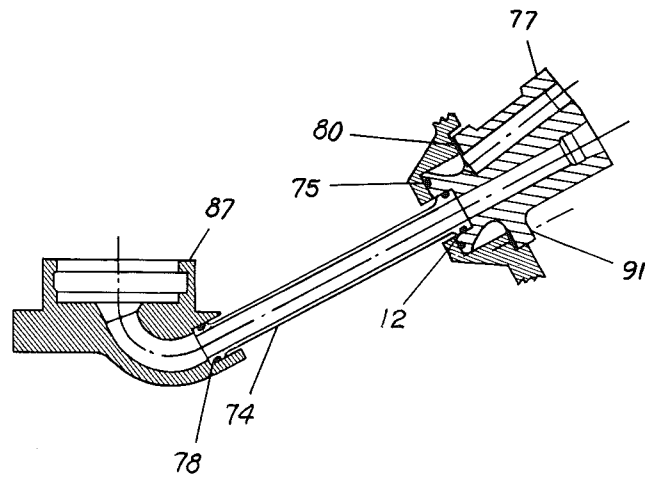


FIG. 6—Internal Oil Piping - Low Speed Oil Pump

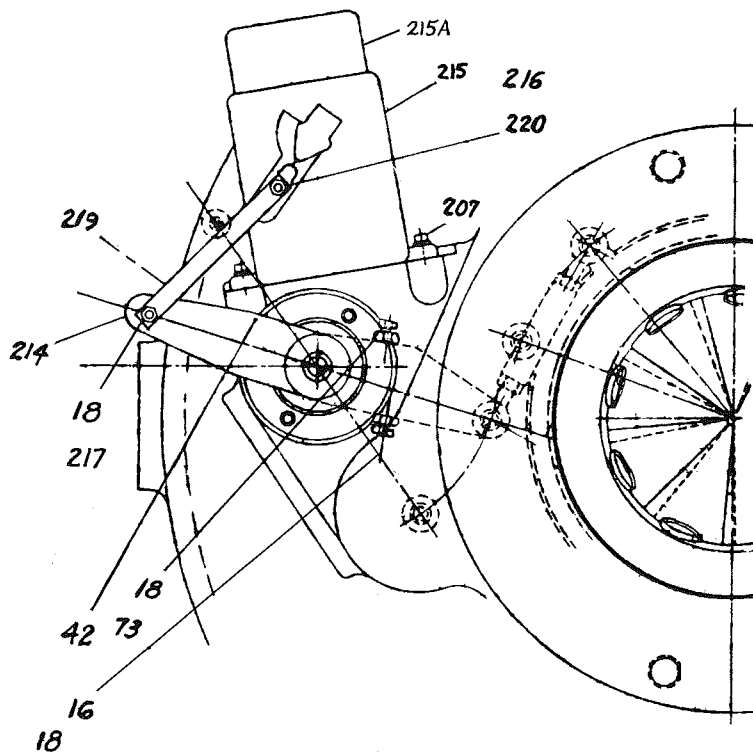


FIG. 7—Electric Motor

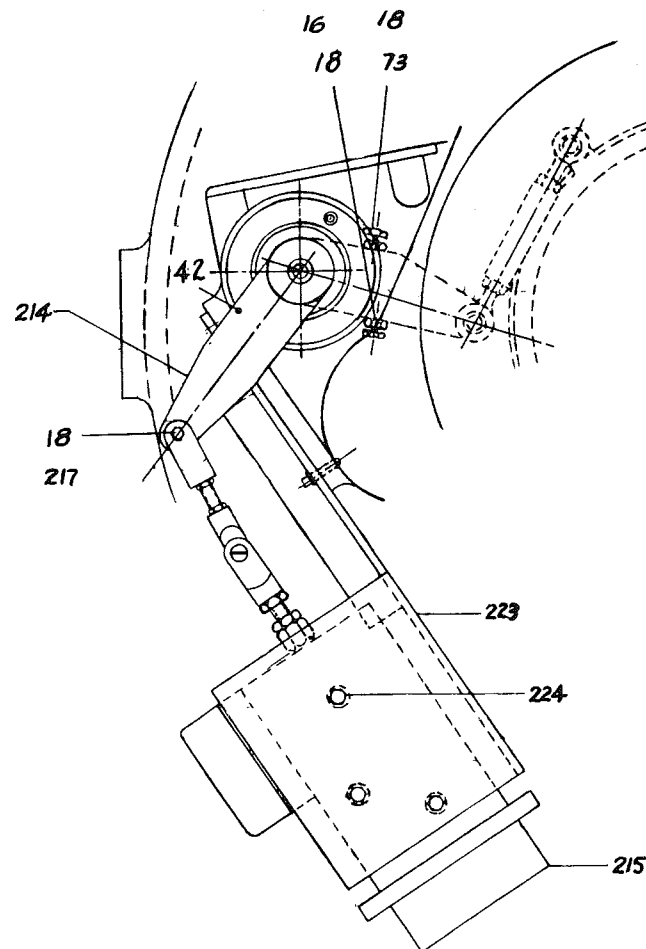
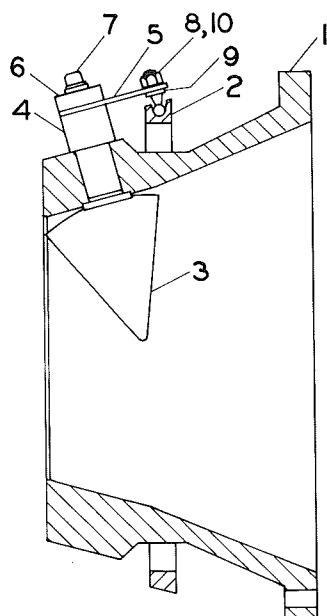


FIG. 8-Air Motor



ITEM	PART NO.	QUAN.	DESCRIPTION
1	064-14518	1	HOUSING - PRE-ROTATION (T47-T48)
	064-14519		HOUSING - PRE-ROTATION (T53)
	064-14520		HOUSING - PRE-ROTATION (T59)
2	064-09286	1	RING - VANE DRIVING
3	064-09285	9	VANE - PRE-ROTATION
4	064-09290	9	WASHER
5	064-09291	9	ARM - VANE
6	064-09289	9	WASHER - SPECIAL
7	021-11742	9	SCREW - CAP
8	029-07017	9	SCREW - BALL
9	021-11973	AS REQ'D	WASHER
10	021-12943	9	NUT, 12-PT. $\frac{1}{4}$ -28UNF 3B

FIG. 9-Cross Section View of Pre-Rotation Device



BORG WARNER