

SINGLE STAGE CENTRIFUGAL HERMETIC MOTOR COMPRESSOR

COMPRESSOR
MTC67
MTC76

SYSTEM
HT15, 17, 19
HT20, 23, 24, 25

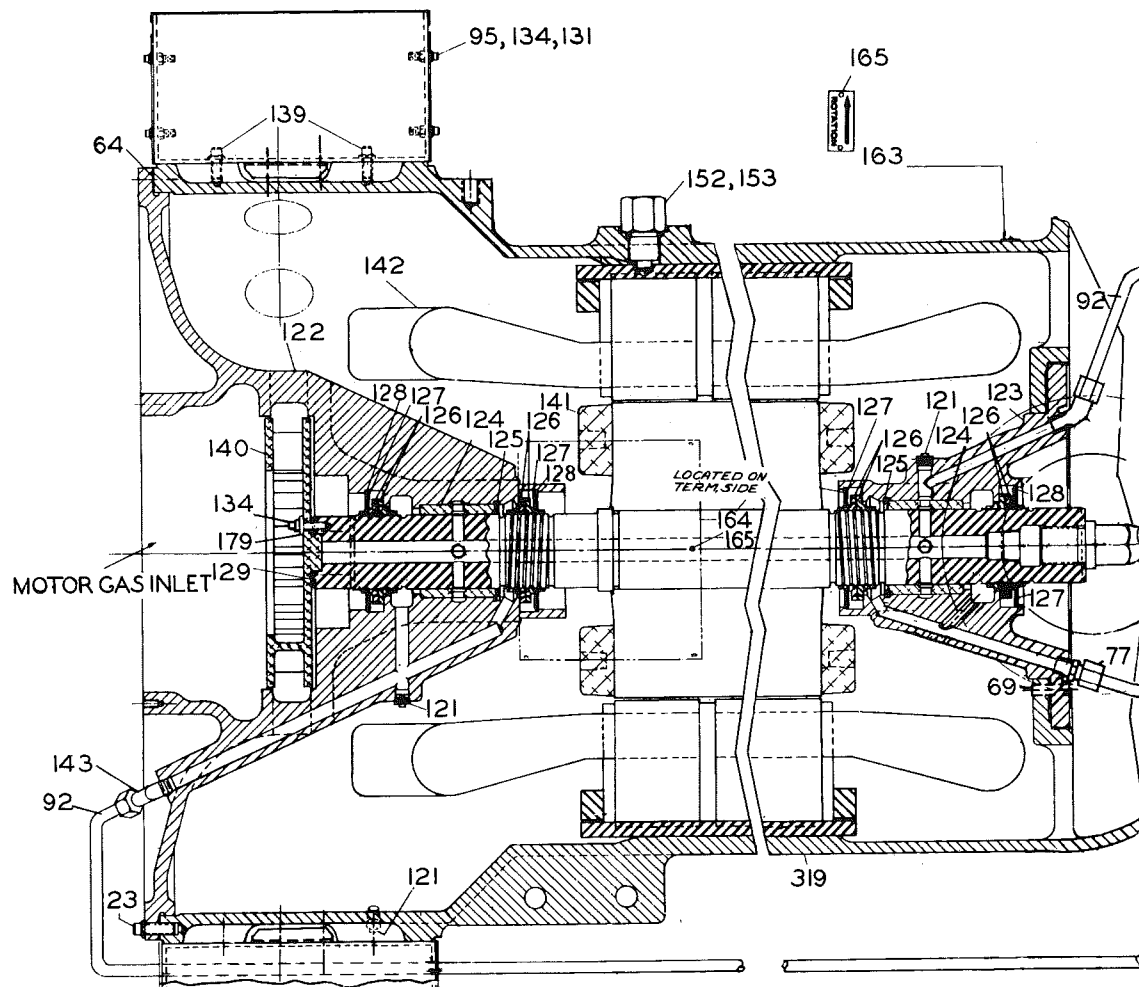


FIG. 1 - Cross Section View of Compressor - Hermetic

ITEM	PART NO.	QTY.	DESCRIPTION
1	029-11856	1	SHAFT, CONTROL
2	028-07407	1	RING, "O" 2 OD X 1.799ID X 103 SECT.
3	364-20399	1	LEVER, P. R. DEVICE, INTERNAL
4	064-12314	1	ROD, ADJUSTABLE
5	028-04477	1	RING, "O" 2 OD X 1 13/16 ID X 3/32 SECTION
6	021-03745	1	SCR. MACH. PHILIPS #10-24NC X 3/8 LG.
7	021-11600	1	CLIP, TOP
8	021-01785	1	SCR. MACH. PHILIPS #10-24NC X 5/8 LG.
9	364-13441	1	ELIMINATOR, OIL (FRAME TYPE)
10	064-13909	1	COVER, SHAFT CONTROL
11	021-11175	11	SCR. CAP, 12 PT. HD. 3/8-16UNC X 1 1/2 LG.
12	028-00781	1	GASKET, 2 1/2 OD X 2 ID X 1/16 TH.
13	028-04353	2	RING, "O" 1 3/8 OD X 1 1/8 ID X 1/8 SECT.
14	023-04334	1	TEE, SCREW 1/4
15	364-13347	2	ELIMINATOR, OIL (CAN TYPE)
16	064-10825	1	SCR. SPECIAL 3/8-24UNF X 1 5/8 LG.
17	023-04053	1	PLUG, PIPE 3/4 NPT
18	029-08343	2	BRG. ROD END SPHERICAL
19	021-01083	1	PIN, COTTER 3/32 X 3/4 LG.
20	021-10815	1	LOCKWASHER, SPRING 3/8
21	021-10170	2	NUT, HEX REG. 3/8-24UNF
22	064-12328	3	FILLPIECE, 3/4 DIA X 1/8 LG.
23	021-11149	24	SCR. CAP 12 PT. HD. 3/8-16UNC X 1 LG.
24	029-05900	1	PIN, INSERT 3/32 X 1 1/8 LG.
25	021-11149	1	SCR. CAP 12 PT. HD. 1/2-20UNF X 6 LG.
26	064-08815	1	WASHER, SPECIAL 1 3/4 DIA X 1/2 TH.
27	064-11803	1	GASKET, OIL SEPARATOR 1/32 TH.
28	070-00675	1	NIPPLE, PIPE 1/4 SCH. 80 X 7/8 LG.
29	028-04861	1	RING, "O" 1 7/8 OD X 1 5/8 ID X 1/8 SECT.
30	064-19266	1	SUPPORT, ROTOR
31	023-02015	3	PLUG, PIPE, 1 1/4 SQ. CTRSK.
32	021-11498	6	SCR. CAP 12 PT. HD. 3/8-24UNF X 7/8 LG.
33	023-07264	2	ELBOW, 45° 3/4 TUBE X 3/4 MPT
34	023-07158	1	PLUG, "O" RING 9/16-18UNF
35	021-11917	6	SCR. CAP 12 PT. HD. 3/8-16UNC X 2 LG.

▲ PARTS INCLUDED IN KIT 464-21519

ITEM	PART NO.	QTY.	DESCRIPTION
36	064-11642	1	BRG. MAIN SHAFT
37	064-11643	1	BRG. PINION GEAR
38	029-08496	1	RING, INTERNAL RETAINING
39	064-13845	1	BRG. GEAR FRONT
40	029-06722	1	RING, INTERNAL RETAINING
41	SEE SALES ORDER	1	GEARS
42	064-14971	1	SHAFT, DRIVE 2 3/4 DIA. X 17 1/16 LG.
43	064-20643	1	BRG. GEAR REAR
44	064-13841	1	PUMP, CENTRIFUGAL OIL
45	021-11532	1	SCR. CAP 12 PT. HD. 5/16-24UNF X 1 3/4 LG. L.H.
46	064-11649	6	WASHER, FLAT 3/4 X 25/64 X 5/16 TH.
47	064-11644	1	BRG. THRUST
48	064-11654	1	COLLAR, THRUST 3 1/4 DIA X 2.431
49	064-11802	1	GASKET, BRG. HOUSING
50	029-04138	2	PIN, INSERT 3/16 DIA X 1/2 LG.
51	064-11655	1	SHAFT, MAIN 3 DIA X 16 47/64 LG.
52	064-12887	1	WASHER, FLAT SPRING
53	029-05601	1	RING, INTERNAL RETAINING
54	064-16500	1	WASHER, SPECIAL
55	064-14316	1	TUBE EXTENSION
56	026-09306	1	AUXILIARY OIL PUMP 115/230-1-60
56A	026-10904	1	AUX. OIL PUMP SHAFT SEAL KIT
57	364-13873	1	PUMP, JET OIL
58	064-20636	1	ADAPTER
59	022-02042	1	CHECK VALVE 3/8 MPT BOTH ENDS
60	064-12101	1	GASKET, OIL JET
61	064-20436	1	PLATE, OIL SEPARATOR
62	064-20435	1	RING, SEAL
63	023-04832	1	TEE, SCREW 3/4 X 1/2 X 3/8
64	064-16871	1	GASKET, BRG. SUPPORT TERM. END
65	023-07342	2	COUPLING, 5/8 TUBE X 1/2 FPT
66	064-13842	1	HOUSING, OIL PUMP
67	064-11806	1	GASKET, INNER SPRING SEAL
68	064-11656	1	RING, INNER SPRING SEAL
69	021-11141	43	SCR. CAP 12 PT. HD. 3/8-16UNC X 1 1/4 LG.

ITEM	PART NO.	QTY.	DESCRIPTION
106	025- 10017	1	CONTROL, OIL FLOAT SWITCH
107	021- 12039	8	SCR. CAP 12 PT. HD. $\frac{5}{16}$ -18UNC X 1 LG.
108	029- 12039	1	PIN, INSERT $\frac{1}{2}$ X 1 $\frac{1}{8}$
109	023-07172	2	ELBOW, 45° DEG. $\frac{1}{2}$ TUBE X $\frac{3}{8}$ MPT
110	023-01983	1	PLUG, PIPE $\frac{3}{8}$ SQ.
111	368-00003	1	VALVE, STOP, ANGLE $\frac{3}{8}$
112	023-06817	1	ELBOW 90° $\frac{1}{2}$ TUBE X $\frac{1}{2}$ MPT
113	021- 11159	32	SCR. CAP 12 PT. HD. $\frac{5}{8}$ -11UNC X 1 $\frac{1}{2}$ LG.
114▲	029-03990	1	PIN, ROLL $\frac{1}{8}$ DIA X $\frac{3}{16}$ LG.
115	023-07197	2	ELBOW, 45° $\frac{5}{8}$ TUBE X $\frac{1}{2}$ MPT
116	023-04010	2	BUSHING PIPE $\frac{3}{4}$ X $\frac{1}{2}$
117	023-01969	1	PLUG, PIPE SQ. HD. $\frac{1}{8}$
118	021-02399	1	SCR., CAP, HEX HD. $\frac{1}{4}$ -20 X 1 $\frac{1}{2}$ LG.
119	021- 11914	1	SCR., CAP, HEX HD. $\frac{1}{4}$ -20 X 1 LG.
120	023-08383	1	ELBOW 90° $\frac{3}{4}$ TUBE X $\frac{3}{4}$ FPT
121	023-01972	6	PLUG, PIPE $\frac{1}{4}$
122	064- 14969	1	BRG. SUPPORT TERMINAL END
123	064-20609	1	BRG. SUPPORT COMPR. END
124▲	064- 11998	2	BRG. MOTOR
125	029-08346	2	RING, INTERNAL RETAINING
126▲	064- 11997	8	RING, SEAL
127	064- 12001	4	WASHER, SPRING .037 TH. X $\frac{3}{78}$ DIA.
128▲	029-08498	4	RING, INTERNAL, RETAINING
129▲	064- 14976	1	GASKET, FAN $1\frac{5}{16}$ ID X $2\frac{1}{4}$ OD X $\frac{1}{32}$ TH.
130▲	064- 17883	1	HOUSING, BEARING
131	021-05289	12	LOCKWASHER $\frac{1}{4}$
132	021- 12234	4	SCR., SET HEADLESS HEX, $\frac{1}{2}$ -20UNF X 1 LG.
133	023-06820	1	ELBOW 90° $\frac{3}{4}$ TUBE X $\frac{3}{4}$ MPT
134	021- 11741	23	SCR. CAP 12 PT. HD. $\frac{1}{4}$ -20UNC $\frac{3}{4}$ LG.
135	029- 10646	3	PIN, DOWEL $\frac{1}{2}$ DIA X 2 LG.
136	021- 11984	3	SCR. CAP 12 PT. HD. $\frac{1}{2}$ -20UNF 1 $\frac{1}{2}$ LG.
137	364- 14961	1	BOX, TERMINAL
138	064- 14960	2	SUPPORT END, TERMINAL BOX
139	021- 11979	4	SCR. CAP 12 PT. HD. $\frac{3}{8}$ -16UNC X $\frac{5}{8}$ LG.

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ITEM	PART NO.	QTY.	DESCRIPTION
140	064-14963	1	FAN
141	364-14978	1	ROTOR, HERMETIC MOTOR
142	SEE SYSTEM DATA PLATE	1	STATOR
143	023-07092	4	ELBOW 45° 3/8 TUBE X 1/4 MPT
144	064-07317	2	CONN. MALE SPECIAL
145	023-06816	1	ELBOW 90° 1/2 TUBE X 3/8 MPT
146	023-07063	1	PLUG, "O" RING
147	064-14975	1	COVER, HAND HOLE
148	070-06905	2	GASKET, OIL SIGHT
149	026-02634	2	GLASS, OIL SIGHT
150	064-14317	2	SUPPORT, OIL SIGHT
151	028-00774	2	GASKET, OIL SIGHT
152	064-12161	1	PLUG, STATOR LOCKING
153	028-05403	1	RING, "O" 1 1/8 OD X 15/16 ID X 3/32 SECT.

ITEM	PART NO.	QTY.	DESCRIPTION
154	022-01739	1	VALVE, CHECK 1/4 FPT IN 1/4 MPT OUT
155	023-08382	1	ELBOW 90° 1/2 TUBE X 3/8 FPT
156	070-07509	1	GASKET, HAND HOLE COVER
157	028-05401	1	RING, "O" 20 OD X 19 1/2 ID X 1/4 SECTION
158	021-11980	16	SCR, CAP 12 PT. HD. 3/4-10 UNC X 2 1/4 LG.
159	028-04522	2	RING "O" 1 1/4 OD X 1 1/2 ID X 1/8 SECTION
160	029-00310	1	NAMEPLATE, PUBLICITY 6
161	070-01294	2	NIPPLE, PIPE 1/2 SCHED. 40 X 2 LG.
162	025-08189	1	CONN. ELECT. 1/2 STRAIGHT
163	029-00334	1	NAMEPLATE, INSTRUCTION, ROTATION
164	029-09432	1	NAMEPLATE, DATA SYSTEM
165	021-03720	10	SCR, DRIVE NO. 4 X 1/4 LG.
166	023-05524	1	ELBOW, ST. 1/4
167	021-00481	4	NUT, HEX 5/16-18 UNC

ITEM	PART NO.	QTY.	DESCRIPTION
169	021-01418	4	SCR, CAP HEX HD. 5/16-18 UNC X 3/4 LG.
170	013-01678	AS REQ'D	LOCTITE "NUTLOCK" TYPE CV (8-10)
171	013-01016	AS REQ'D	VARNISH, SCOTCHCAST RESIN
173	023-01994	3	PLUG, HEX SOC. HD. 1/2
174	025-10290	1	BOX, ELECT. OCT. CONCRETE RING
175	025-10291	1	COVER, ELECT. BOX OCT. CONC. RING
176	364-20653	1	BRACKET, MOUNTING AUX. OIL PUMP
177	064-20660	1	GASKET, NOZZLE BASE PLATE
178	021-11973	AS REQ'D	WASHER 17/64 ID X 1/2 OD X .016 THK.
179	021-01244	3	WASHER 1/4 ID X 9/16 OD X .048 THK.
180	021-12356	2	BOLT, "U" 1/4 DIA.
181	064-21035	2	COVER, ELECT. END SUPPORT
182	064-21856	1	CONN., TUBE 3/4 OD X .049 WALL X 10 LG.
183	064-21857	1	CONN., TUBE 3/8 OD X .049 WALL X 8 LG.

▲ PARTS INCLUDED IN KIT 464-21519

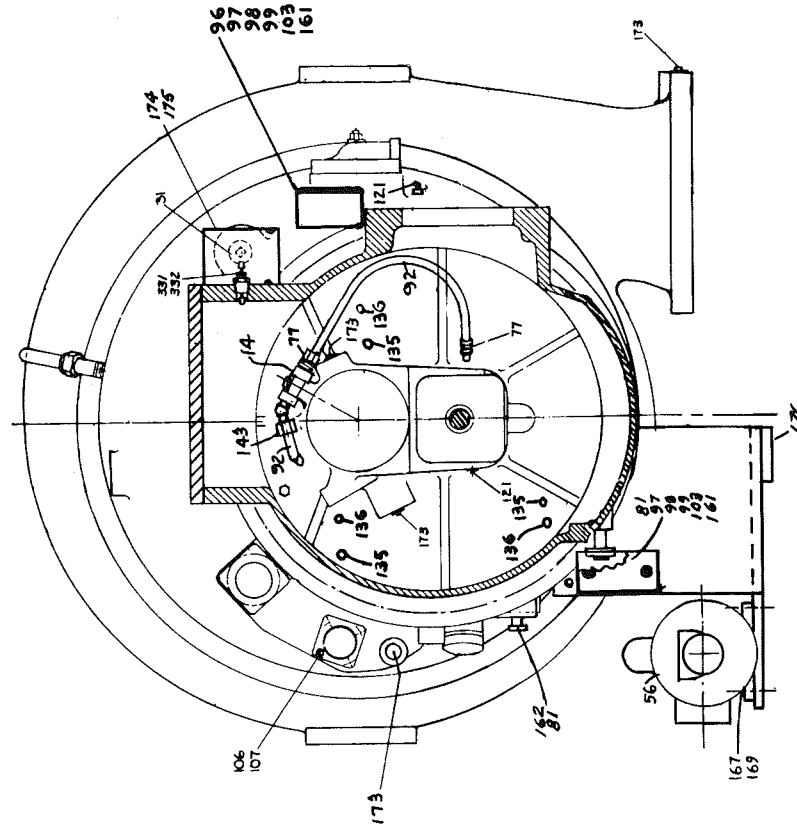


FIG. 2—Front View Compressor

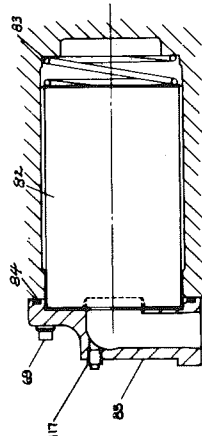
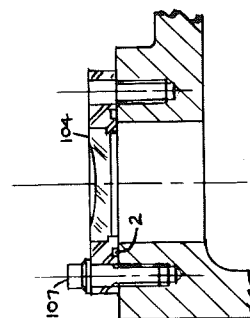


FIG. 3—Filter



ITEM NO.	DESCRIPTION	ELECTRIC P. R. V. MOTOR										AIR P. R. V. MOTOR									
		LINE NO. 1 364-20625 MTC-67 L.V.	Q U A N	LINE NO. 2 364-20626 MTC-67 H.V.	Q U A N	LINE NO. 3 364-20627 MTC-76 L.V.	Q U A N	LINE NO. 4 364-20628 MTC-76 H.V.	Q U A N	LINE NO. 5 364-20629 MTC-67 L.V.	Q U A N	LINE NO. 6 364-20630 MTC-67 H.V.	Q U A N	LINE NO. 7 364-20631 MTC-76 L.V.	Q U A N	LINE NO. 8 364-20632 MTC-76 H.V.					
301	DEVICE, PRE-ROTATION WASHER, TERM. BOLT (SPECIAL) RING, SEAL IMPELLER WASHER, FLAT SPRING PLATE, NOZZLE BASE	364-15250	1	364-15250	1	364-15249	1	364-15249	1	364-15250	1	364-15250	1	364-15249	1	364-15249					
302		064-09289	6	064-12740	6	064-09289	6	064-12740	3	064-09289	3	064-12740	3	064-09289	6	064-12740					
303		064-20430	1	064-20430	1	064-20431	1	064-20431	1	064-20430	1	064-20430	1	064-20431	1	064-20431					
304		064-06242	1	064-06242	1	064-05741	1	064-05741	1	064-06242	1	064-06242	1	064-05741	1	064-05741					
305		064-20409	1	064-20409	1	064-20410	1	064-20410	1	064-20409	1	064-20409	1	064-20410	1	064-20410					
306	PLATE, DIFFUSER IMPELLER RING, RETAINING OIL SEAL BOLT, TERMINAL BUSHING, TERM. BOLT	064-11810	1	064-11810	1	064-11638	1	064-11638	1	064-11810	1	064-11810	1	064-11638	1	064-11638					
307		064-11297	1	064-11297	1	064-11127	1	064-11127	1	064-11297	1	064-11297	1	064-11127	1	064-11127					
308		064-06243	1	064-06243	1	064-05742	1	064-05742	1	064-06243	1	064-06243	1	064-05742	1	064-05742					
309		064-14953	6	064-14970	3	064-14953	6	064-14970	3	064-14953	3	064-14970	6	064-14953	6	064-14970					
310		025-11107*	12	025-08586†	6	025-11107*	12	025-08586†	6	025-11107*	6	025-08586†	6	025-11107*	12	025-08586†					
311	RING, TERM. BOLT RING, PACKING TERM. BOLT PLATE, INSULATING BAR, LOCKING TERM. BOLT BAR, ELECT. BUS	029-08527*	12	028-03896†	6	029-08527*	6	028-03896†	6	029-08527*	12	028-03896†	6	029-08527*	12	028-03896†					
312		028-04975*	6	028-03897†	3	028-04975*	6	028-03897†	3	028-04975*	3	028-03897†	3	028-04975*	6	028-03897†					
313		025-10288	12	025-10289	6	025-10288	12	025-10289	6	025-10288	6	025-10289	12	025-10288	12	025-10289					
314		025-10287	1	025-10286	1	025-10287	1	025-10286	1	025-10287	1	025-10286	1	025-10287	1	025-10286					
315		064-14972	6	064-14986	3	064-14972	6	064-14986	3	064-14972	6	064-14986	3	064-14972	6	049-14986					
316	BAR, ELECT. JUMPER BAR, ELECT. INTERNAL NUT, JAM HEX HOUSING, MOTOR SCR. CAP 12 PT. HD. 3/8-16UNC X 1 3/4 LG.	SEE SALES ORDER	3	SEE SALES ORDER	3	SEE SALES ORDER	3	SEE SALES ORDER	3	SEE SALES ORDER	3	SEE SALES ORDER	3	SEE SALES ORDER	3	SEE SALES ORDER					
317		064-14974	6	064-14974	6	064-14974	6	064-14974	6	064-14974	6	064-14974	6	064-14974	6	064-14974					
318		021-11500	12	021-00589	6	021-11500	12	021-00589	6	021-11500	12	021-00589	6	021-11500	12	021-00589					
319		064-17843	1	064-17844	1	064-17843	1	064-17844	1	064-17843	1	064-17844	1	064-17843	1	064-17844					
320		021-11916	6	021-11916	3	021-11916	6	021-11916	3	021-11916	3	021-11916	6	021-11916	6	021-11916					
321	NUT, HEX 3/8 WASHER, PLAIN 13/32 ID WASHER, PLAIN WASHER, SPL. SCR. CAP 12 PT. HD. 3/8-16UNC X 1 1/8 LG.	021-00466	14	021-00466	14	021-00466	14	021-00466	5	021-00466	12	021-00466	3	021-00466	12	021-00466					
322		021-01274	12	021-01274	12	021-01274	12	021-01274	3	021-01274	12	021-01274	12	021-01274	12	021-01274					
323		021-05172	6	068-00142	3	021-05172	6	068-00142	3	021-05172	6	068-00142	3	021-05172	6	068-00142					
324		064-12740	6	064-12740	6	064-12740	6	064-12740	6	064-12740	6	064-12740	6	064-12740	6	068-00142					
325		021-11148	6	021-11148	6	021-11148	6	021-11148	6	021-11148	6	021-11148	6	021-11148	6	021-11148					
326	SCR. CAP, HEX HD. 1/4-20UNC X 1 LG. NUT, HEX, 1/4-20UNC WASHER, PLAIN 9/32ID X 5/8OD X .065 TH. TERM. ELECT. 1/8 N. P. T.	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER					
327		SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER	12	SEE SALES ORDER					
328		SEE SALES ORDER	24	SEE SALES ORDER	24	SEE SALES ORDER	24	SEE SALES ORDER	24	SEE SALES ORDER	24	SEE SALES ORDER	24	SEE SALES ORDER	24	SEE SALES ORDER					
331		025-09346	2	025-09346	2	025-09346	2	025-09346	2	025-09346	2	025-09346	2	025-09346	2	025-09346					
332		068-09057	2	068-09057	2	068-09057	2	068-09057	2	068-09057	2	068-09057	2	068-09057	2	068-09057					
333	BUSHING, PIPE LEVER, P. R. DEVICE (EXT.) SCR. CAP LINK, EXT. HAND TUBING, FILLPIECE	064-12237	1	064-12237	1	064-12237	1	064-12237	1	064-12237	1	064-12237	1	064-12237	1	064-12237					
334		021-11149	3	021-11149	3	021-11149	3	021-11149	3	021-11149	3	021-11149	3	021-11149	3	021-11149					
335		064-12235	1	064-12235	1	064-12235	1	064-12235	1	064-12235	1	064-12235	1	064-12235	1	064-12235					
336		064-15003	1	064-15003	1	064-15003	1	064-15003	1	064-15003	1	064-15003	1	064-15003	1	064-15003					
337		021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741	4	021-11741					
338	SCR. CAP PLATE MOTOR SUPPORT SCR. CAP MOTOR, INDUSTRIAL BOLT, SHOULDER	364-12236	1	364-12236	1	364-12236	1	364-12236	1	364-12236	1	364-12236	1	364-12236	1	364-12236					
339		021-11940	1	021-11940	1	021-11940	1	021-11940	1	021-11940	1	021-11940	1	021-11940	1	021-11940					
340		025-09360	1	025-09360	1	025-09360	1	025-09360	1	025-09360	1	025-09360	1	025-09360	1	025-09360					
342		064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815					
343		064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815	1	064-12815					

* PARTS INCLUDED IN KIT 464-21460 † PARTS INCLUDED IN KIT 464-21461

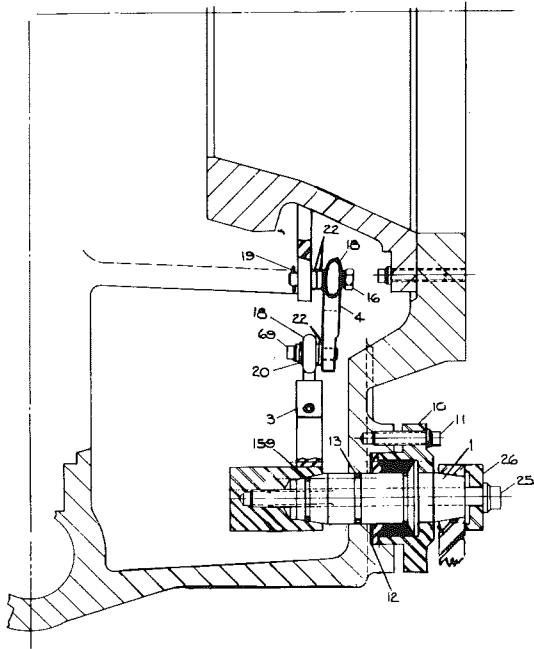


FIG. 5— Internal PRV Control Shaft

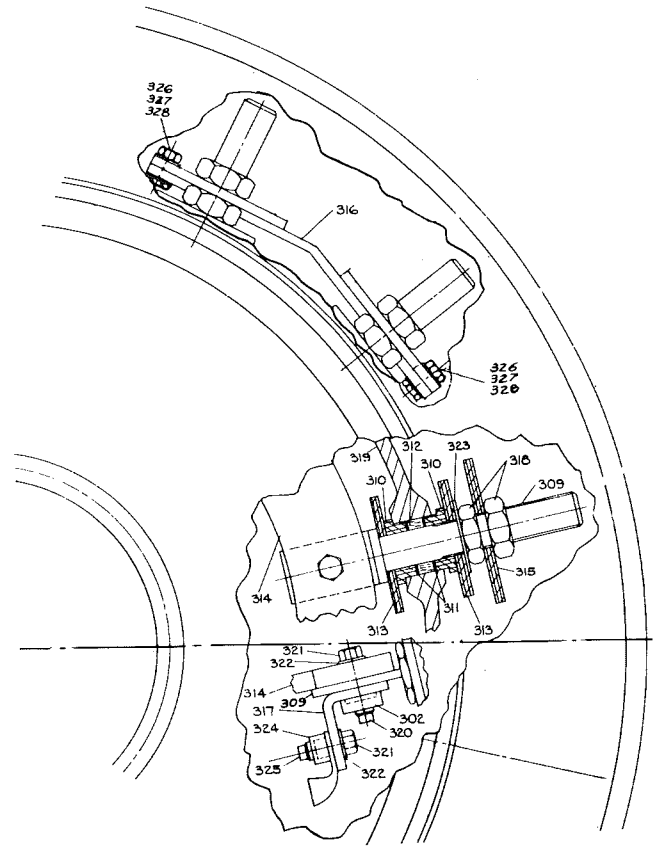


FIG. 6— Motor Terminals

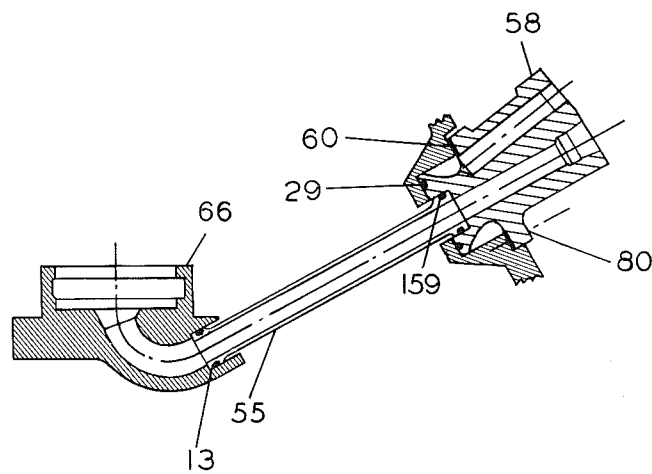


FIG. 7—Cross Section View of Pre-Rotation Device

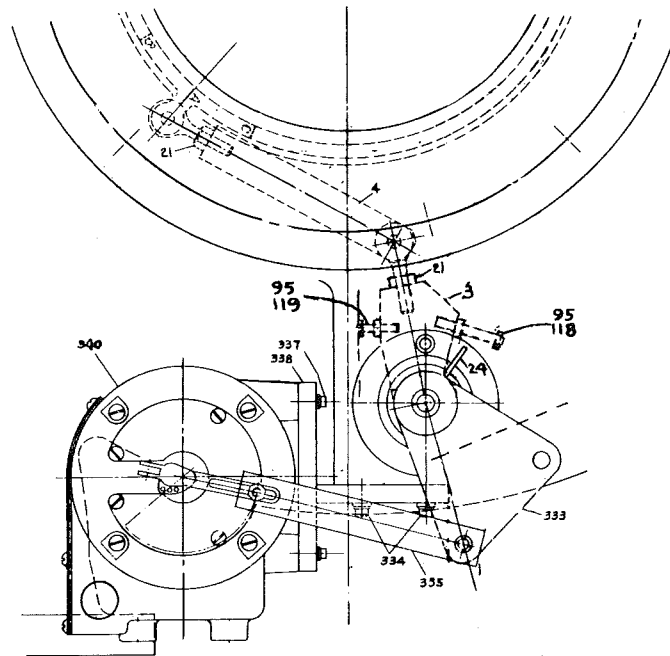


FIG. 8— Electric Motor

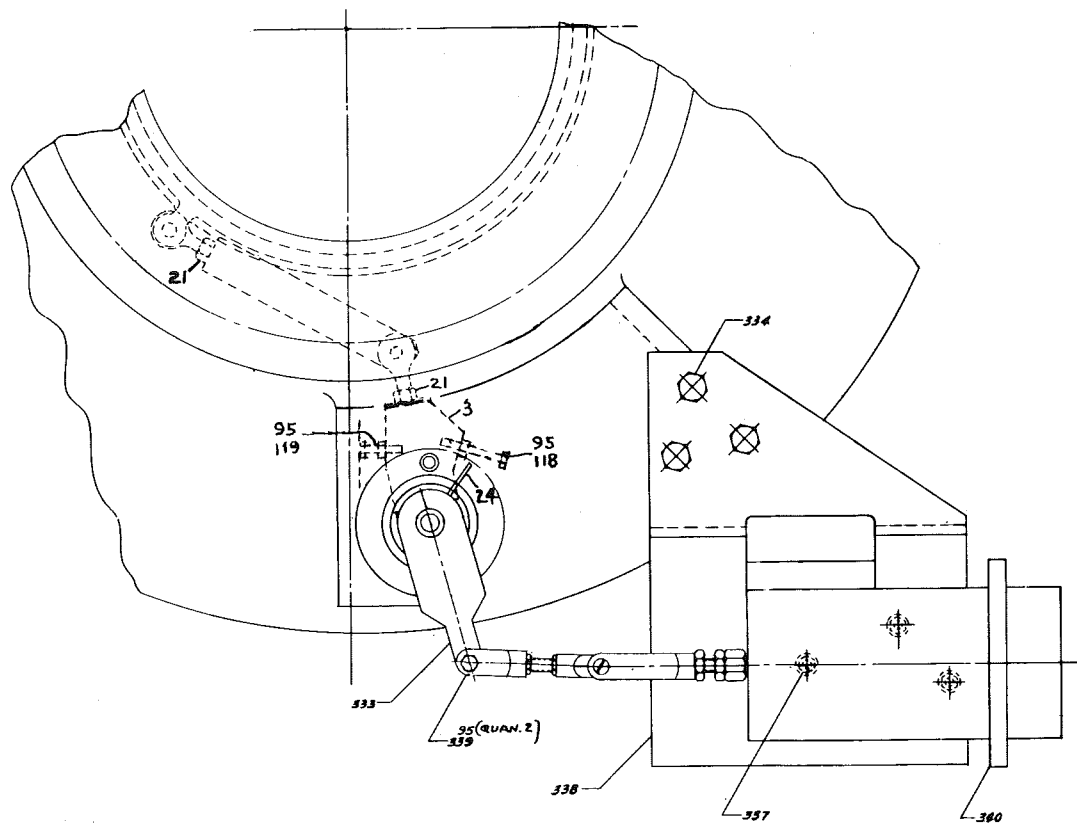
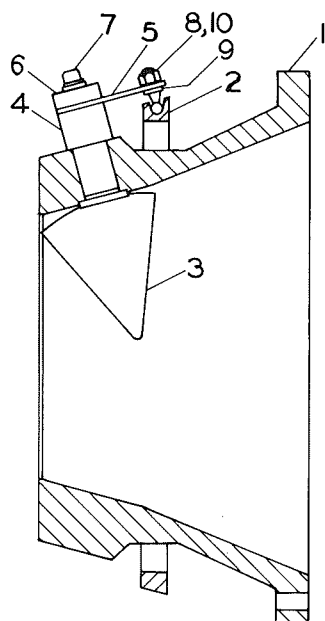


FIG. 9— Air Motor



ITEM	PART NO.	QUAN.	DESCRIPTION
1	064-13486	1	HOUSING - PRE-ROTATION (T67)
	064-13485	1	HOUSING - PRE-ROTATION (T76)
2	064-10815	1	RING - VANE DRIVING
3	064-10618	9	VANE - PRE-ROTATION
4	064-10819	9	WASHER, 1 1/4 OD X 25/64 ID X 23/32 TH.
5	064-10818	9	ARM - VANE
6	064-09289	9	WASHER - SPECIAL, 1 1/8 DIA. X 3/8 TH.
7	021-11956	9	SCREW - CAP, 12 PT. HD. 3/8-24UNF X 2 1/4 LG.
8	029-07017	9	SCREW - BALL
9	021-11973	AS REQ'D	WASHER, 17/64 ID X 1/2 OD X .016 TH.
10	021-12943	9	NUT, 12-POINT 1/4-28NF

FIG. 10-Cross Section View of Pre-Rotation Device

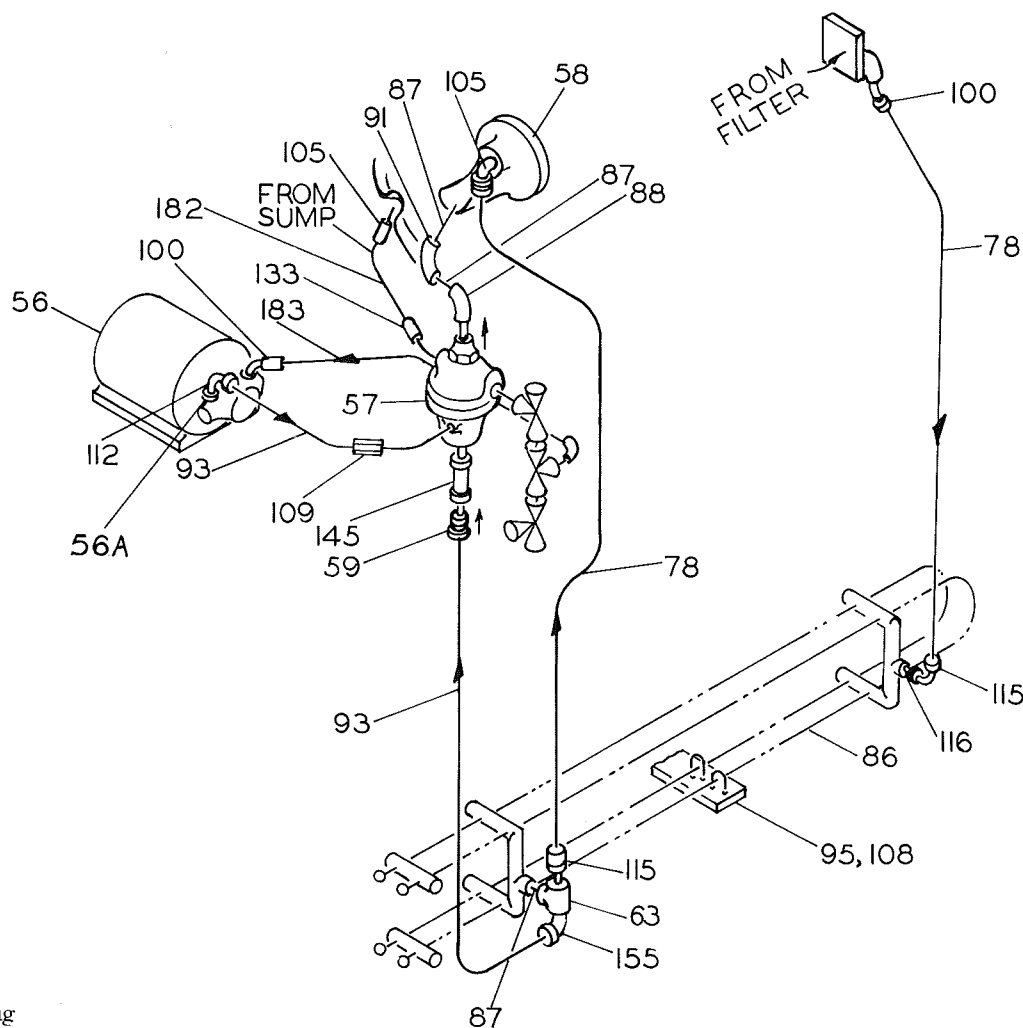


FIG. 11-Oil Piping

Subject to Change Without Notice

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