

SINGLE STAGE CENTRIFUGAL OPEN COMPRESSOR

COMPRESSOR
LTC85
LTC95

SYSTEM
OT28, 30
OT32, 34, 37

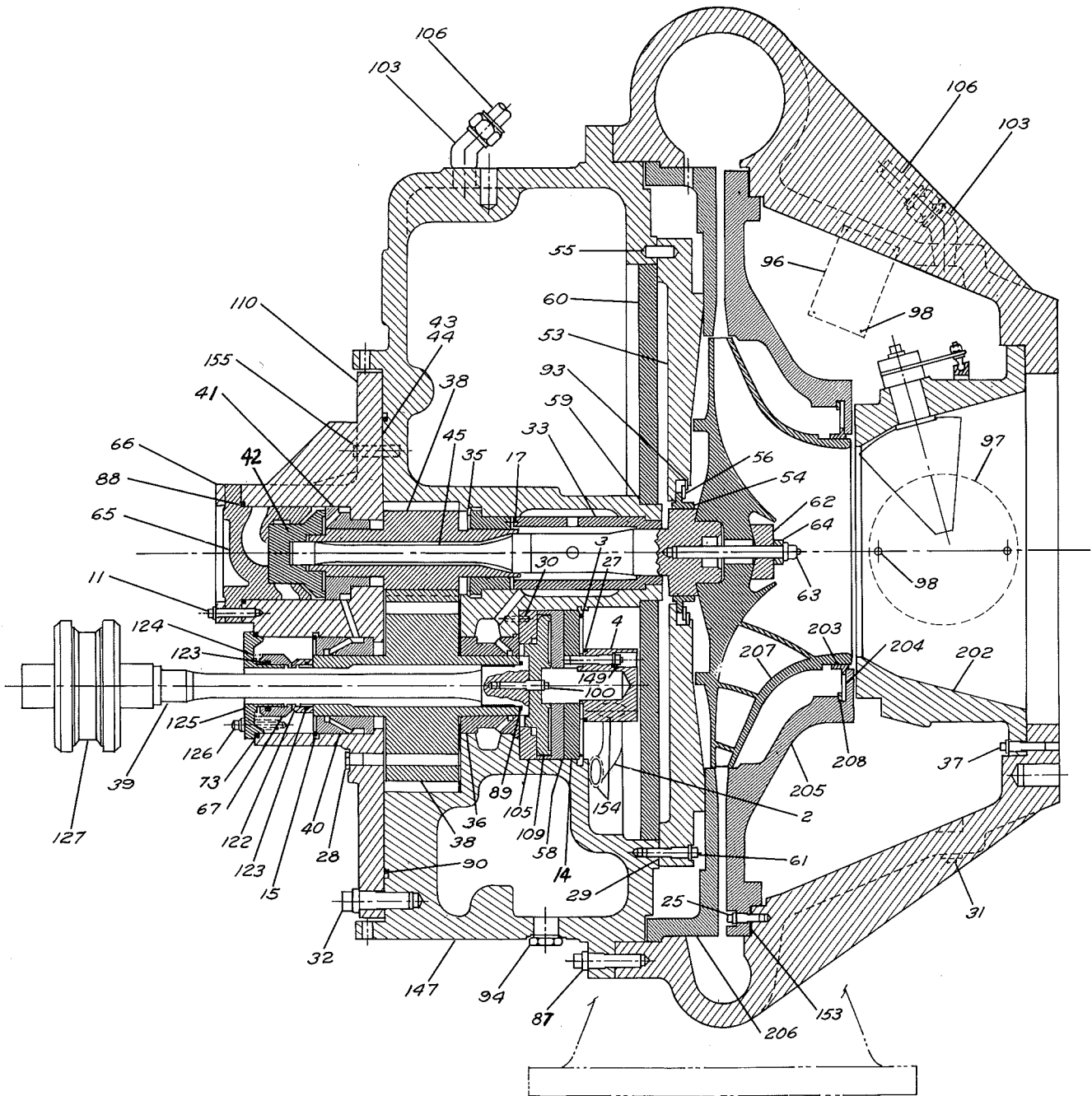


FIG. 1- Cross Section View of Compressor - Open

ITEM	PART NO.	QTY.	DESCRIPTION
1	064-12167	1	SCROLL, ROTOR
2	064-15519	1	TUBE, SUCTION, L.S. PUMP
3	029-08736	1	RING, INT., RETAINING
4	064-21476	1	CONN., SUCTION, L.S. PUMP
5	029-11856	1	SHAFT, CONT.
6	064-08815	1	WASH, SPL.
7	026-11143	1	COOLER, OIL
8	364-21442	1	LEVER, P.R. DEVICE INT.
9	064-09080	1	ROD, ADJUSTABLE
10	064-13909	1	COVER, SFT. CONT.
11	021-11175	8	SCR., CAP 3/8-16UNC X 3 X 1 1/2 LG.
12	028-00781	1	GASKET, 2 1/2 OD X 2 ID X 1/16 TH.
13	028-04353	1	RING, "O" 1 3/8 OD X 1 1/8 ID X 1/8 SECT.
14	064-14988	1	PLATE, BACK UP
15	029-06722	1	RING, INTERNAL RETAINING
16	021-01418	4	SCR., CAP, HEX. HD. 5/16-18UNC X 3/4 LG.
17	029-03990	1	PIN, ROLL 1/8 X 9/16 LG.
18	064-09079	1	SCR., SPECIAL 1/2-20UNF X 1 3/4 LG.
19	064-09078	1	SCR., SPECIAL 1/2-20UNF X 5 3/8 LG.
20	029-07015	2	BEARING, ROD END SPHERICAL
21	021-10171	3	NUT, HEX REG., 1/2-20UNF X 2B
22	021-05271	1	LOCKWASHER, SPRING 1/2
23	064-09070	1	FILL PIECE, 1" DIA. X 1/4 LG.
24	064-09069	1	FILL PIECE, 1" DIA. X 3 1/8 LG.
25	021-11103	6	SCR., CAP 12 PT. HD. 3/8-24NF X 1 LG.
26	029-05900	1	PIN, INSERT, 3/32 DIA. X 1 1/8 LG.
27	064-15521	1	GASKET, RD. 2 3/4 OD X 1 1/2 ID X 1/16 TH.
28	023-07158	1	PLUG, "O" RING, 9/16-18UNF
29	064-12145	1	GASKET, OIL SEPARATOR
30	029-07014	1	PIN, INSERT 1/4 DIA. X 7/8 LG.
31	023-04053	1	PLUG, PIPE 3/4 NPT
32	021-11149	3	SCR., CAP 12 PT. HD. 3/8-16UNC X 1 LG.
33	064-21465	1	BEARING, MAIN SHAFT
34	064-11643	1	BEARING, PINION GEAR
35	029-08496	1	RING, INTERNAL RETAINING
36	064-13845	1	BEARING, GEAR FRONT
37	021-11720	3	SCR., CAP 12 PT. HD. 3/8-24UNF X 1 1/2
38	SEE SYSTEM DATA PLATE		GEARS
39	064-14971	1	SHAFT, DRIVE
40	064-11665	1	BEARING, GEAR REAR
41	064-11644	1	BEARING, THRUST
42	064-21475	1	COLLAR, THRUST
43	064-15515	1	GASKET, BEARING HOUSING
44	029-04138	2	PIN, INSERT 3/16 DIA. X 1/2 LG.
45	064-21479	1	SHAFT, MAIN
46	013-01678	AS REQ'D	LOCTITE NUT LOCK TYPE CV (4-10)
47	021-01392	2	SCR., CAP HEX. HD., 1/4-20UNC X 1 1/4 LG.
48	021-01083	1	PIN, COTTER 3/32 DIA. X 3/4 LG.
49	364-18474	1	ELIMINATOR, OIL
50	364-13873	1	PUMP, OIL JET
51	023-06805	2	CONNECTOR, 5/8 TUBE X 1/2 MPT
52	021-00450	8	NUT, HEX 1/4-20UNC
53	064-21431	1	PLATE, OIL SEPARATOR
54	064-21430	1	RING, SEAL
55	029-06875	1	PIN, INSERT 1/2 DIA. X 1 1/4 LG.
56	064-21429	1	WASHER, FLAT SPRING
57	021-00461	4	NUT, HEX. 5/16-18UNC X
58	064-14989	1	PLATE, THRUST
59	064-12144	1	GASKET, INNER SPG. SEAL
60	064-12252	1	RING, INNER SPG. SEAL
61	021-11916	20	SCR., CAP 12 PT. HD. 3/8-16UNC X 1 3/4 LG.
62	064-21477	1	COLLAR, IMPELLER CLAMPING
63	021-12174	1	SCR., CAP 12 PT. HD. 3/4-16UNF X 4 3/4 LG.
64	064-21478	1	WASHER, IMPELLER CLAMPING
65	064-11660	1	COVER, OIL PUMP
66	064-11819	1	PLATE, PRESSURE
67	064-15385-008	1	RING, SHAFT SEAL
68	023-04010	1	BUSHING, PIPE, OUTSIDE HEX. 3/4 MPT X 1/2 FPT
69	021-11141	4	SCR., CAP 12 PT. HD. 3/8-16UNC X 1 1/4
70	025-09450	2	HEATER, CARTRIDGE TYPE
71	026-07446	1	ELEMENT, FILTER
72	029-07217	1	SPRING, FILTER
73	028-04349	2	RING, "O" 4 1/4 OD X 4 ID X 1/8 SECT.
74	064-20822	1	COVER, OIL FILTER
75	364-13347	2	ELIMINATOR, OIL
76	023-06818	1	ELL., 90° 5/8 TUBE X 1/2 MPT
77	025-04785	3	BOX, JUNCTION

▲PARTS INCLUDED IN KIT 464-21561

ITEM	PART NO.	QTY.	DESCRIPTION
78	025-01732	3	COVER, JUNCTION BOX
79	021-12039	8	SCR., CAP 12 PT. HD. 5/16-18UNC X 1" LG.
80	025-05701	6	LOCKNUT, ELECTRIC, 1/2
81	026-13123	1	GLASS, OIL SIGHT
82	028-07407	1	RING PKG. HYD "O" OD X 1799 ID X .103 THK.
83	025-04866	3	BUSHING, ELECTRIC, 1/2
84	064-15533	1	TUBE, VENT 7/8 OD
85	023-07661	2	COUPLING, 3/4 TUBE X 1/2 FPT
86	023-01994	3	PLUG, HEX. SOCKET HEAD 1/2
87	021-11971	36	SCR., CAP 12 PT. HD. 5/8-11UNC X 2 LG.
88	028-04352	1	RING, "O" 4 1/8 OD X 3 7/8 ID X 1/8 SECT.
89	028-04477	1	RING, "O" 2 OD X 1 13/16 ID X 3/32 SECT.
90	028-05401	1	RING, "O" 20 OD X 19 1/2 ID X 1/4 SECT.
91	023-01969	1	PLUG, PIPE 1/8 NPT
92	021-11736	16	SCR., CAP 12 PT. HD. 3/4-10UNC X 2 LG.
93	029-08600	1	RING, RETAINING - INTERNAL
94	023-07063	1	PLUG, "O" RING 1 1/16-12UNF
95	023-06820	6	ELBOW 90° 3/4 TUBE X 3/4 MPT
96	029-08252	1	NAMEPLATE, DATA, COMPRESSOR
97	029-00310	1	NAMEPLATE, PUBLICITY 6"
98	021-03720	8	SCR., DRIVE NO. 4 X 1/4 LG.
99	025-13722	1	CONTROL, TEMPERATURE
100	021-11532	1	SCR., CAP, 12 PT. HD. 5/16-24UNF X 1 3/4 L.H.
101	023-01972	2	PLUG, PIPE 1/4 NPT
102	023-06801	1	CONNECTOR, 3/8 TUBE X 1/4 MPT
103	023-07264	4	ELBOW 45° 3/4 TUBE X 3/4 MPT
104	003-00969	1.5 FT.	TUBE, 3/8 OD X .035 WALL
105	064-21467	1	VOLUME, L.S. OIL PUMP
106	003-00952	8 FT.	TUBE, 3/4 OD X .049 WALL
107	003-00243	3 FT.	TUBE, 1/2 OD X .049 WALL
108	070-01298	3	NIPPLE, PIPE 1/2 SCH. 40 X 2 1/2 LG.
109	064-15509	1	PUMP, OIL, L.S. 6 DIA. X 1 1/8 LG.
110	064-15522	1	HOUSING, BEARING
111	064-22197	1	CONN. AUX. OIL PUMP DISCH. 1/2 OD
112	023-02027	2	PLUG, PIPE 2" NPT
113	064-22199	1	CONN. OIL COOLER TO BEARINGS 3/4 OD
114	068-00007	1	VALVE, ANGLE STOP 3/4 TYPE 1
115	023-06725	2	ELBOW, STREET 90° 3/4
116	021-11998	1	SCR., CAP 12 PT. HD. 1/2-20UNF X 6 LG.
117	021-03745	1	SCR., MACH. P.R.R. HD. #10-24UNC X 3/8 LG.
118	021-11973	AS REQ'D	WASHER, 1/2 OD X 17/64 ID X .016 THK.
119	028-04522	1	RING, "O" 1 1/4 OD X 1 ID X 1/8 SECT.
120	021-01785	2	SCR., MACH. P.R.R. HD. #10-24NC X 5/8
121	026-09306	1	PUMP, AUXILIARY OIL
121A	026-10904	1	AUX. OIL PUMP SHAFT SEAL KIT
122	064-12318-007	1	COLLAR, SHAFT SEAL
123	028-04348	2	RING, "O" 2 OD X 1 3/4 ID X 1/8 SECT.
124	029-11568-001	1	SPRING, HELICAL
125	064-22929	1	COVER, SEAL
126	021-11139	4	SCR., CAP 12 PT. HD. 3/8-16UNC - 3 X 7/8 LG.
127	364-12417-004	1	COUPLING, YORK FLEX
128	064-14790	1	PLUNGER, VALVE OIL RELIEF
129	065-06394	1	CAP, SEAL OIL RELIEF VALVE
130	028-03021	1	GASKET, 7/8 OD X 9/16 ID X 5/64 TH.
131	029-06143	1	SPRING, HELICAL
132	029-00334	1	NAMEPLATE, INSTRUCTION, ROTATION
133	064-22198	1	CONN. AUX. OIL PUMP SUC. 5/8 OD
134	023-07172	1	ELBOW 45° 1/2 TUBE X 3/8 MPT
135	023-06816	1	ELBOW 90° 1/2 TUBE X 3/8 MPT
136	023-04353	1	TEE, SCREW 3/4 X 3/8 X 3/4
137	023-04832	1	TEE, SCREW 3/4 X 1/2 X 3/8
138	023-06803	1	CONN. 3/8 MPT X 1/2 TUBE
139	070-16055	2	NIPPLE, PIPE 3/4 X SCH. 80 X 3" LG.
140	070-01541	1	NIPPLE, PIPE 3/4 X SCH. 80 X 1 3/8 LG.
141	368-00003	1	VALVE, ANGLE STOP 3/8 TYPE 1
142	023-01983	1	PLUG, PIPE 3/8
143	023-04313	1	ELL., SCREW 90° 3/4
144	003-00810	2 FT.	TUBING, 5/8 OD X .049 WALL
145	364-21498	1	BRACKET, OIL COOLER & A.O.P.
146	021-12338	2	U-BOLT #1/4-20UNC
147	064-19265	1	SUPPORT, ROTOR
148	023-06804	1	CONNECTOR, 1/2 TUBE X 1/2 MPT
149	021-11920	2	SCR., CAP 12 PT. HD. 3/8-16UNC X 2 1/4 LG.
150	022-02417	1	VALVE, CHECK 3/8 FPT IN. X 3/8 MPT OUT
151	023-05811	1	ELBOW, STREET 90° - 3/8
152	023-07197	1	ELBOW, 45° - 5/8 TUBE X 1/2 MPT
153	064-21463	1	GASKET, ROUND 30 1/16 OD X 29 17/32 ID X 1/32 TH.
154	028-03282	1	RING "O" 1 OD X 3/4 ID X 1/8 SECT.
155	029-10646	3	PIN, DOWEL 1/2 DIA. X 2 LG.

† PARTS INCLUDED IN SHAFT SEAL KIT 464-24258

VARIABLE COMPONENTS

ITEM NO.	DESCRIPTION	ELECTRIC P. R. V. MOTOR							
		LINE NO. 1	Q	LINE NO. 2	Q	LINE NO. 3	Q	LINE NO. 4	Q
		364-20250 LTB-85 ARRGT#1	U A N	364-20251 LTB-85 ARRGT#2	U A N	364-20252 LTB-95 ARRGT#1	U A N	364-20253 LTB-95 ARRGT#2	U A N
202	DEVICE, PRE-ROTATION	364-15255	1	364-15255	1	364-15266	1	364-15266	1
203	RING, SEAL IMPELLER	064-21418	1	064-21418	1	064-21417	1	064-21417	1
204	WASHER, FLAT SPRING	064-05683	1	064-05683	1	064-05656	1	064-05656	1
205	PLATE, NOZZLE BASE	064-21643	1	064-21643	1	064-21644	1	064-21644	1
206	PLATE, DIFFUSER	064-12139	1	064-12139	1	064-12103	1	064-12103	1
207	IMPELLER	064-11968	1	064-11968	1	064-11969	1	064-11969	1
208	RING, RETAINING OIL SEAL	064-05680	1	064-05680	1	064-05588	1	064-05588	1
209	TEE, COMPRESSION 1/4								
211	CONTROL, OIL FLOAT SWITCH	025-10017	1			025-10017	1		
212	GLASS, OIL SIGHT			026-13123	1			026-13123	1
213	RING, PKG. HYD. "O" 2 OD X 1.799 ID X .103 THK.			028-07407	1			028-07407	1
214	YOKE DUAL P. R. V. OPERATOR								
215	ELBOW, 90° CINCH TYPE 1/4 TUBE X 1/8 MPT								
216	LEVER, P. R. DEVICE EXTERNAL	064-13421	1	064-13421	1	064-13421	1	064-13421	1
217	LINK, EXTERNAL MOTOR	064-13405	1	064-13405	1	064-13405	1	064-13405	1
218	BRACKET, MOTOR MTG.	364-12886	1	364-12886	1	364-12886	1	364-12886	1
219	SCREW, CAP	021-11741	4	021-11741	4	021-11741	4	021-11741	4
220	SCREW, CAP	021-11917	1	021-11917	1	021-11917	1	021-11917	1
221	BOLT, SHOULDER	064-12815	1	064-12815	1	064-12815	1	064-12815	1
222	MOTOR, P. R. V.	025-09360	1	025-09360	1	025-09360	1	025-09360	1
223	MOTOR, P. R. V.								
224	NUT, HEX.	021-00466	2	021-00466	2	021-00466	2	021-00466	2
225	TUBE 1/4 OD X .049 WALL								
226	SLEEVE 1/4 OD TUBE								

VARIABLE COMPONENTS

ITEM NO.	DESCRIPTION	DUAL AIR P. R. V. MOTOR							
		LINE NO. 5	Q	LINE NO. 6	Q	LINE NO. 7	Q	LINE NO. 8	Q
		364-20254 LTB-85 ARRGT#1	U A N	364-20255 LTB-85 ARRGT#2	U A N	364-20256 LTB-95 ARRGT#1	U A N	364-20257 LTB-95 ARRGT#2	U A N
202	DEVICE, PRE-ROTATION	364-15255	1	364-15255	1	364-15266	1	364-15266	1
203	RING, SEAL IMPELLER	064-21418	1	064-21418	1	064-21417	1	064-21417	1
204	WASHER, FLAT SPRING	064-05683	1	064-05683	1	064-05656	1	064-05656	1
205	PLATE, NOZZLE BASE	064-21643	1	064-21643	1	064-21644	1	064-21644	1
206	PLATE, DIFFUSER	064-12139	1	064-12139	1	064-12103	1	064-12103	1
207	IMPELLER	064-11968	1	064-11968	1	064-11969	1	064-11969	1
208	RING, RETAINING OIL SEAL	064-05680	1	064-05680	1	064-05588	1	064-05588	1
209	TEE, COMPRESSION 1/4	023-07321	1	023-07321	1	023-07321	1	023-07321	1
211	CONTROL, OIL FLOAT SWITCH	025-10017	1			025-10017	1		
212	GLASS, OIL SIGHT			026-13123	1			026-13123	1
213	RING, PKG. HYD. "O" 2 OD X 1.799 ID X .103 THK.			028-07407	1			028-07407	1
214	YOKE DUAL P. R. V. OPERATOR	364-19886	1	364-19886	1	364-19886	1	364-19886	1
215	ELBOW, 90° CINCH TYPE 1/4 TUBE X 1/8 MPT	023-05864	1	023-05864	1	023-05864	1	023-05864	1
216	LEVER, P. R. DEVICE EXTERNAL	064-16836	1	064-16836	1	064-16836	1	064-16836	1
217	LINK, EXTERNAL MOTOR								
218	BRACKET, MOTOR MTG.	364-19767	1	364-19767	1	364-19767	1	364-19767	1
219	SCREW, CAP	021-01379	6	021-01379	6	021-01379	6	021-01379	6
220	SCREW, CAP	021-02399	2	021-02399	2	021-02399	2	021-02399	2
221	BOLT, SHOULDER								
222	MOTOR, P. R. V.	024-09599	1	024-09599	1	024-09599	1	024-09599	1
223	MOTOR, P. R. V.	024-12567	1	024-12567	1	024-12567	1	024-12567	1
224	NUT, HEX.	021-00450	2	021-00450	2	021-00450	2	021-00450	2
225	TUBE 1/4 OD X .049 WALL	007-02085	18 IN.	007-02085	18 IN.	007-02085	18 IN.	007-02085	18 IN.
226	SLEEVE 1/4 OD TUBE	023-05867	1	023-05867	1	023-05867	1	023-05867	1

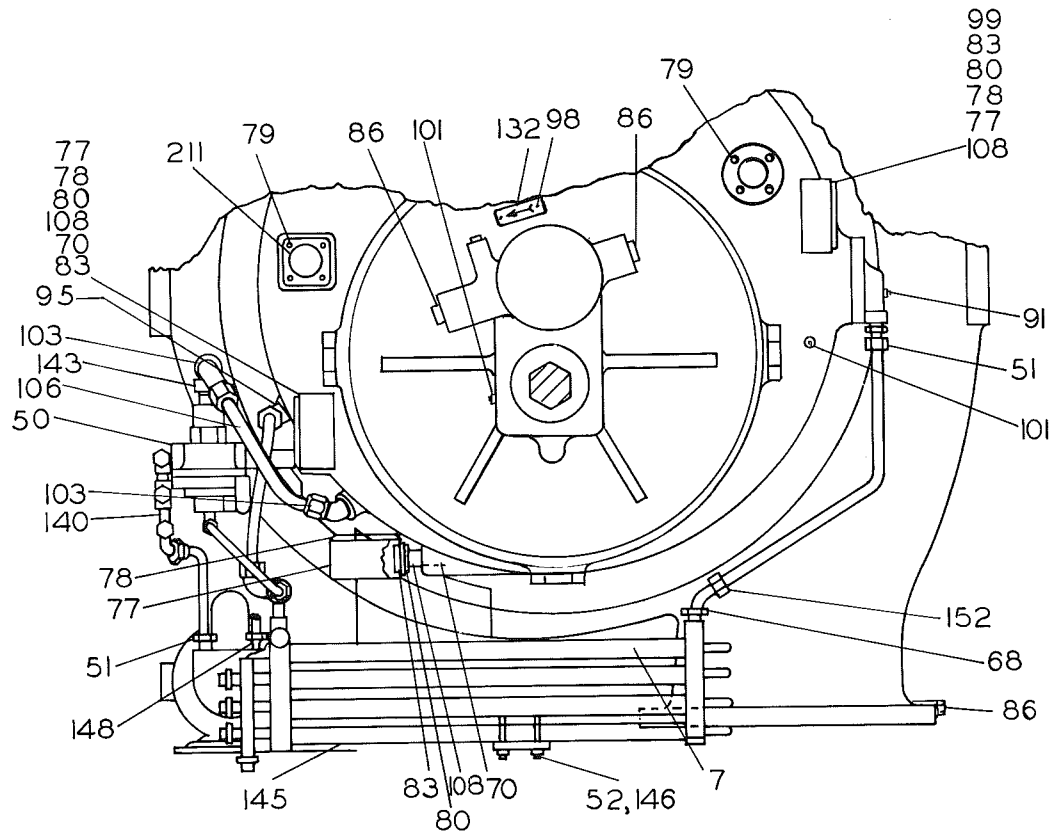


FIG. 2- Front View Compressor

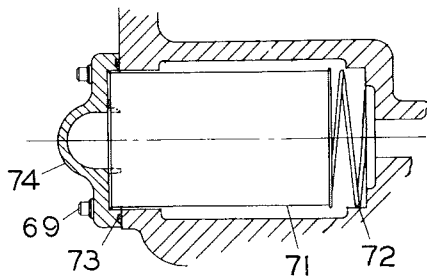


FIG. 3- Filter

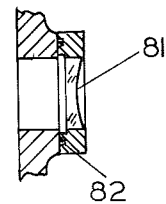


FIG. 4- Oil Sight Glass

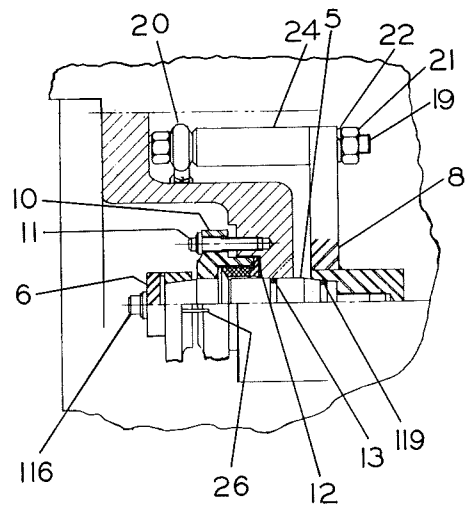


FIG. 5- Internal PRV Control Shaft

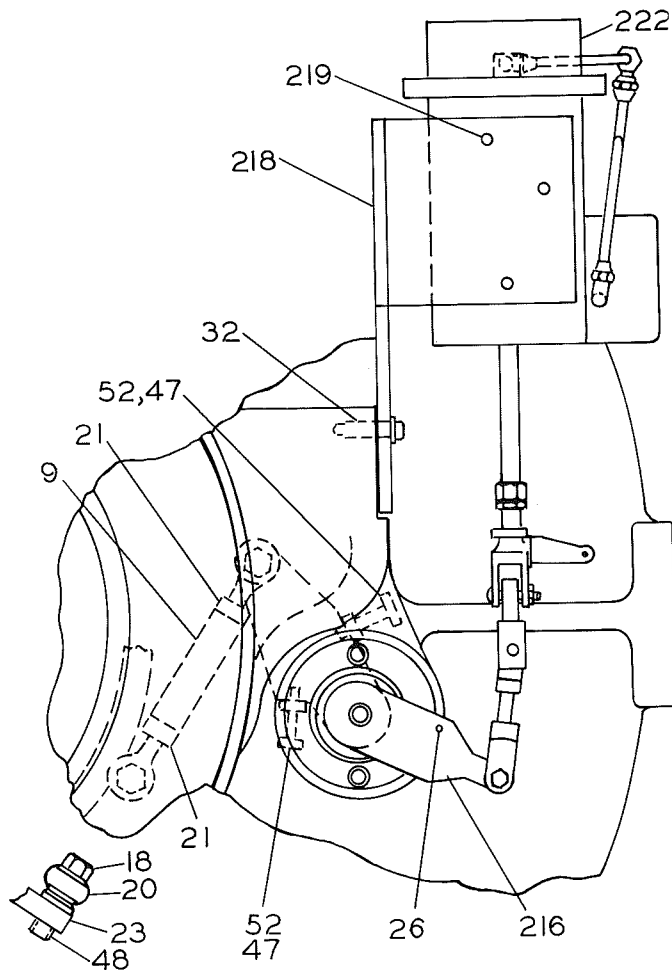


FIG. 6- Air Motor

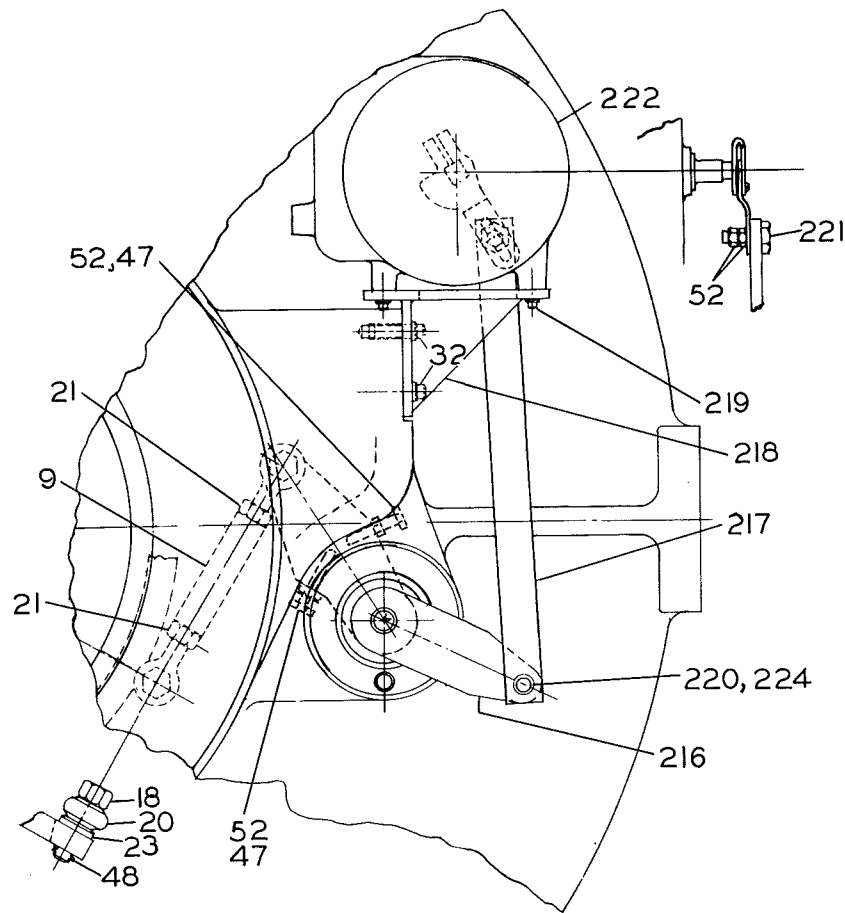


FIG. 7— Electric Motor

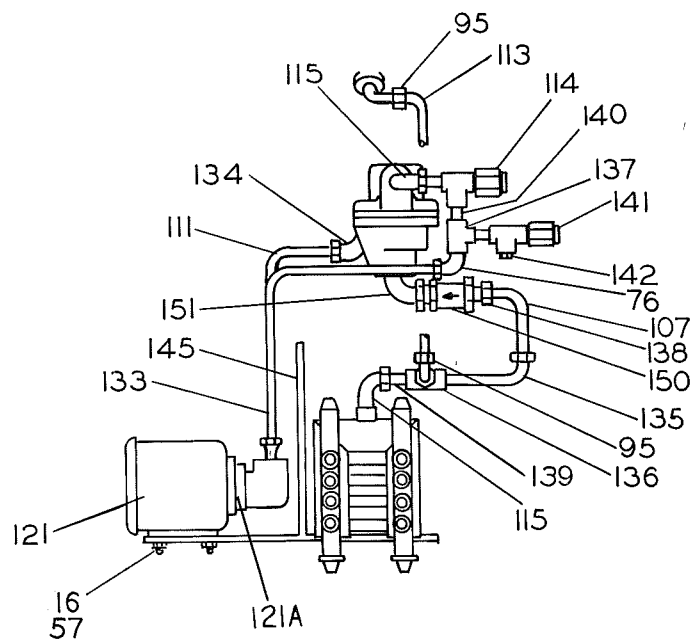
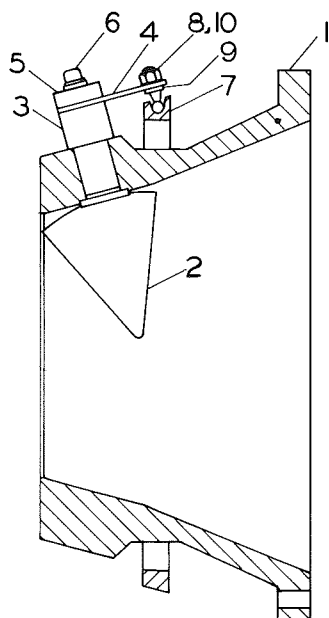


FIG. 8— Oil Piping



ITEM	PART NO.	QUAN.	DESCRIPTION
1	064-13481 064-13482	1	HOUSING - PRE-ROTATION (T85) HOUSING - PRE-ROTATION (T95)
2	064-08822	8	VANE - PRE-ROTATION
3	064-09061	8	WASHER - SPECIAL 1 3/4 OD X 33/64 X 35/64 TH.
4	064-08814	8	ARM - VANE
5	064-08815	8	WASHER - SPECIAL 1 3/4 OD X 1/2 LG.
6	021-11743	8	SCREW - CAP 12 PT. HD. 1/2-20 UNF X 2 1/4 LG.
7	064-08813	1	RING - VANE DRIVE
8	029-07017	8	SCREW - BALL END ONLY
9	021-11973	AS REQ'D	WASHER
10	021-12943	8	NUT, DBL HEX 1/4-28NF

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

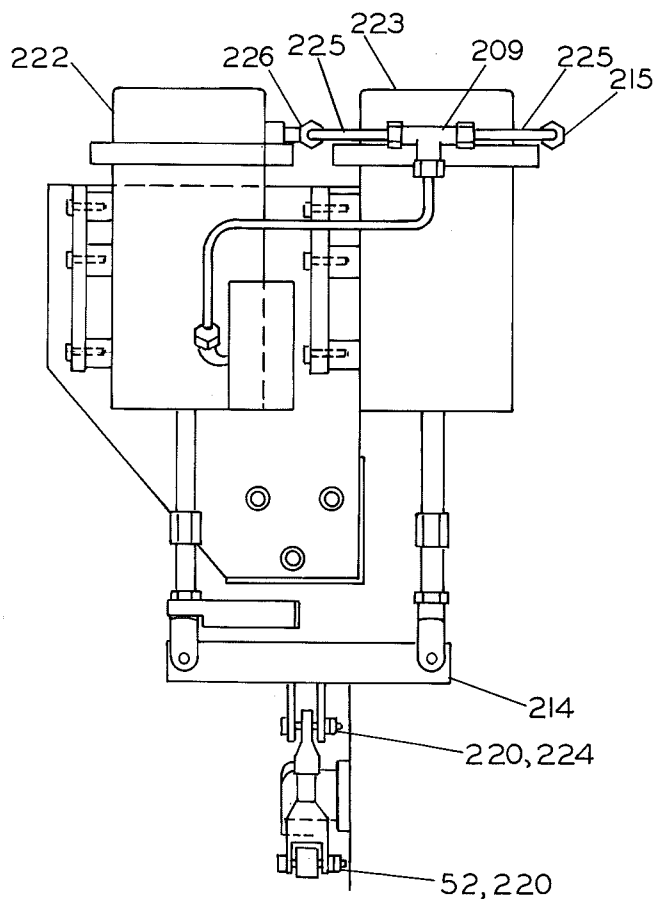


FIG. 10- Internal Oil Piping - Low Speed Oil Pump

Subject to Change Without Notice

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GP 5M 1168 ,20 Code: S(J) & R(J)
Form 160,41-RP1,6

YORK

DIVISION OF BORG-WARNER CORPORATION

BORG WARNER