

YORK®

MODEL HT HERMETIC TURBOPAK LIQUID CHILLING SYSTEMS, R_{refrigerant} 12

RENEWAL PARTS

Supersedes: Nothing

971 Form 160.51-RP

*✓ P. 28
P. 16*

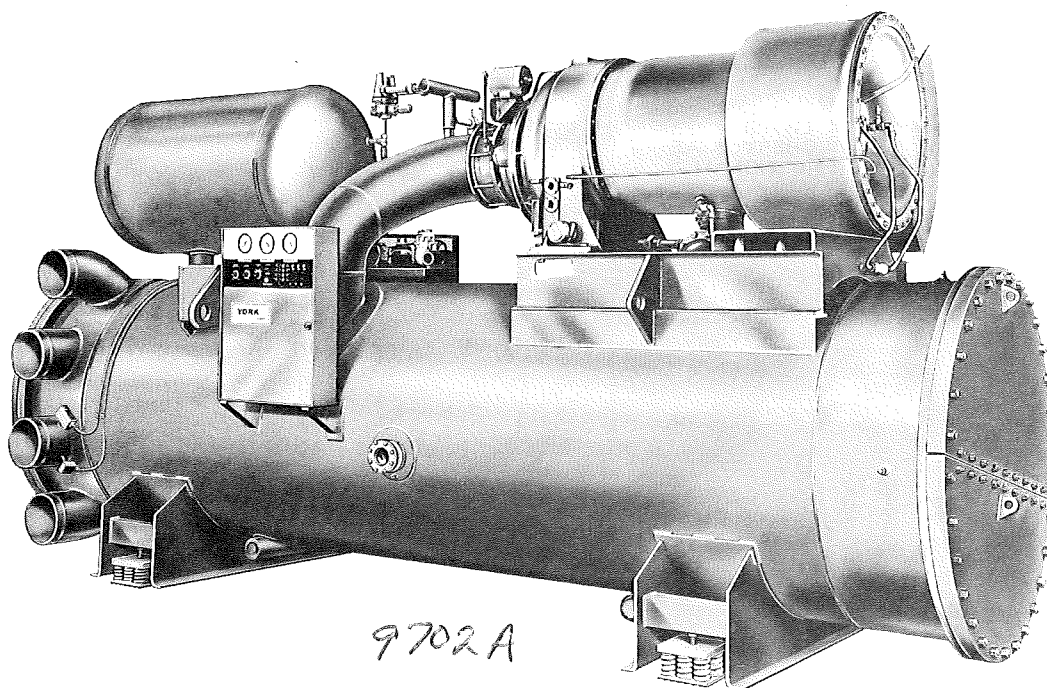
Revised 8/10/71

SEP 21 1971

670 THRU 1030 TONS

MODELS

HT670
HT720
HT770
HT820
HT880
HT920
HT980
HT1030



9702A

TABLE OF CONTENTS

HT TURBOPAK SYSTEM PARTS	2-5
COMPRESSORS MKA65 & MKA73	6-17
COOLERS AND CONDENSERS	18-20
REFRIGERANT TRANSFER UNIT	21-23
ELECTRONIC CONTROL CENTER	24-28
PNEUMATIC CONTROL CENTER	29-36
AUXILIARY CONTROL BOX	37-38
HIGH MOTOR TEMPERATURE CONTROL BOX	39
ELECTRICAL AND PNEUMATIC COMPONENTS	40

HT TURBOPAK SYSTEM PARTS

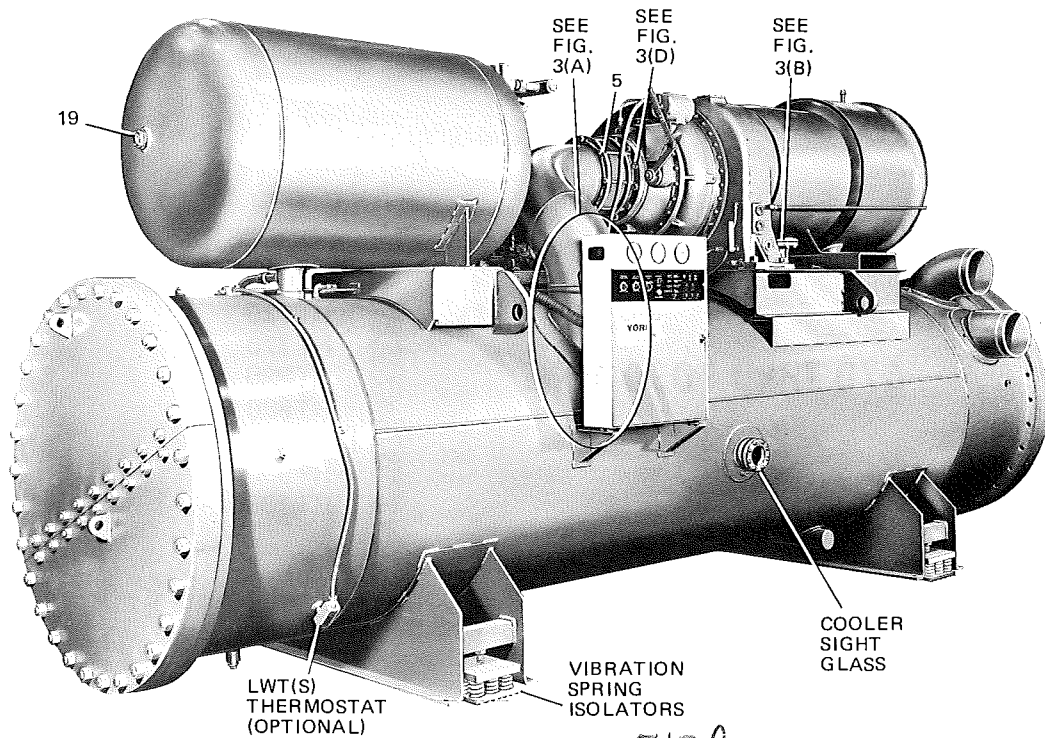


FIG. 1— MODEL HT HERMETIC TURBOPAK, FRONT VIEW

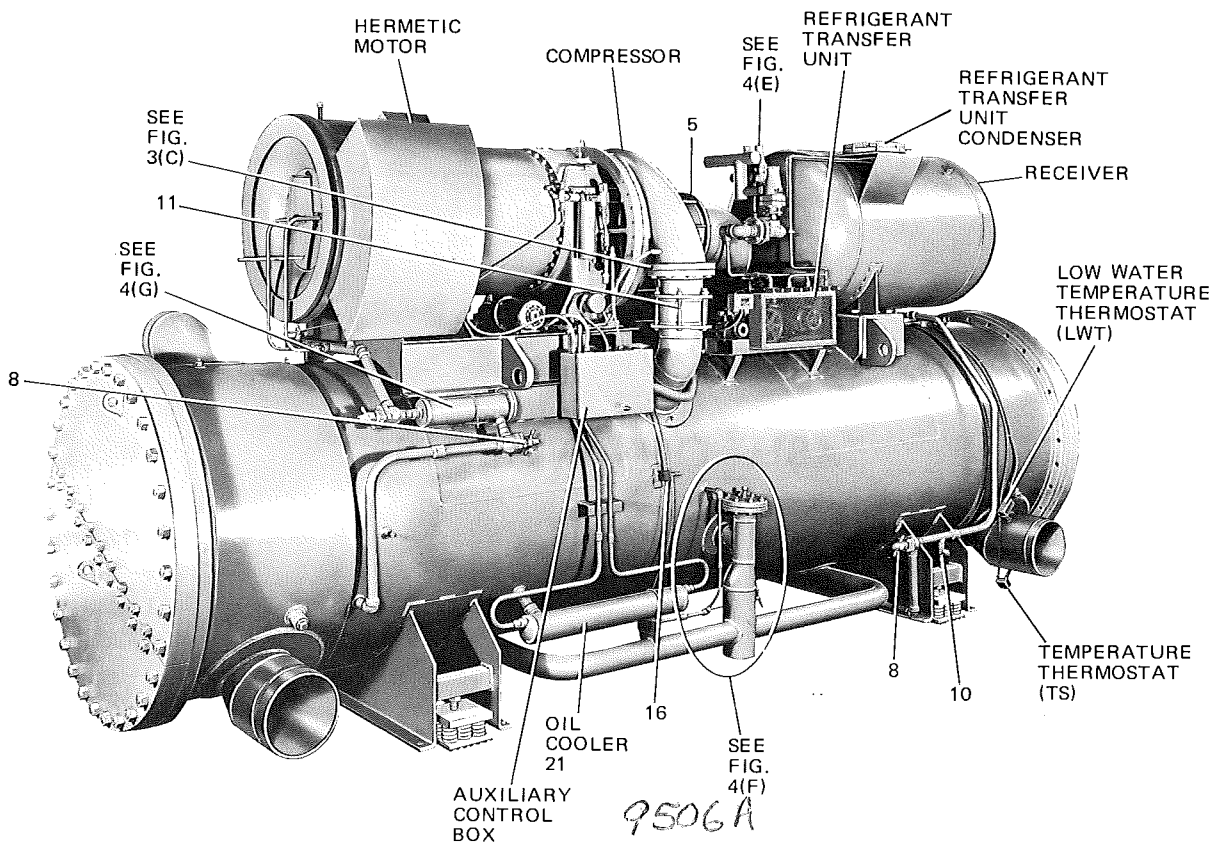


FIG. 2— MODEL HT HERMETIC TURBOPAK, REAR VIEW

HT TURBOPAK SYSTEM PARTS

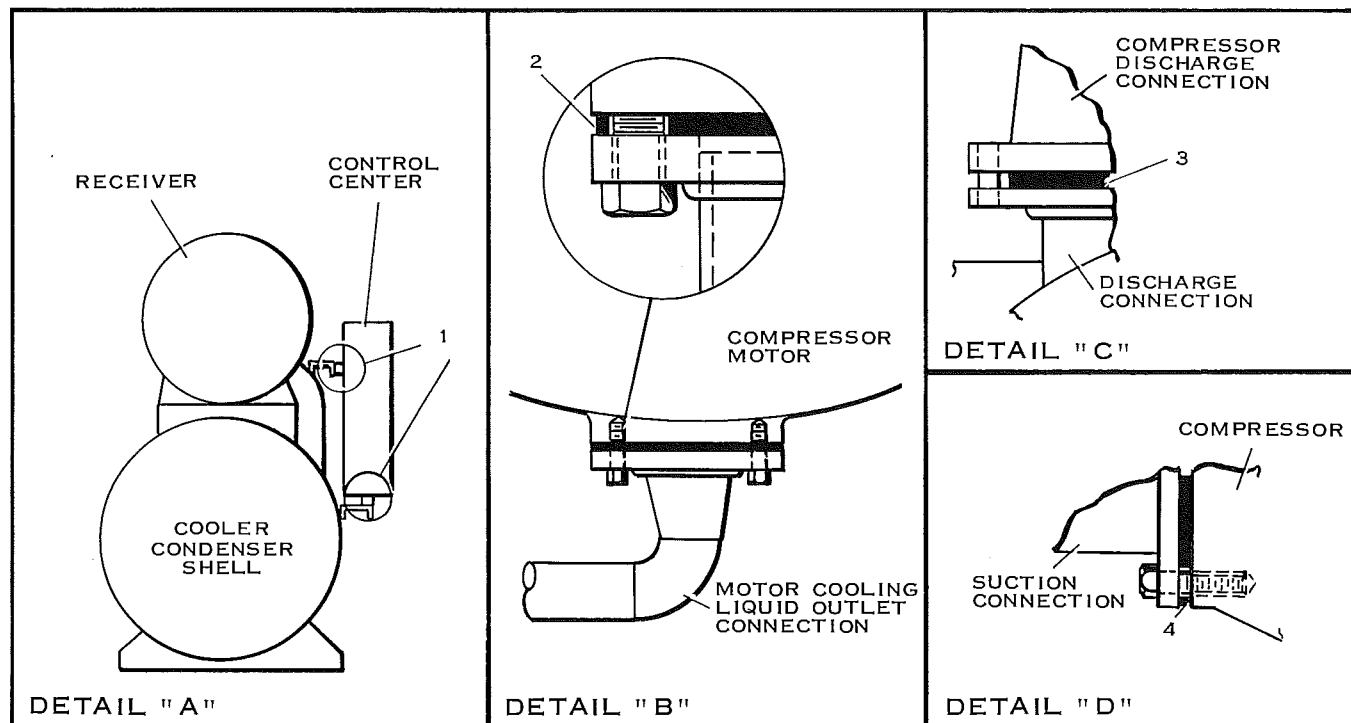
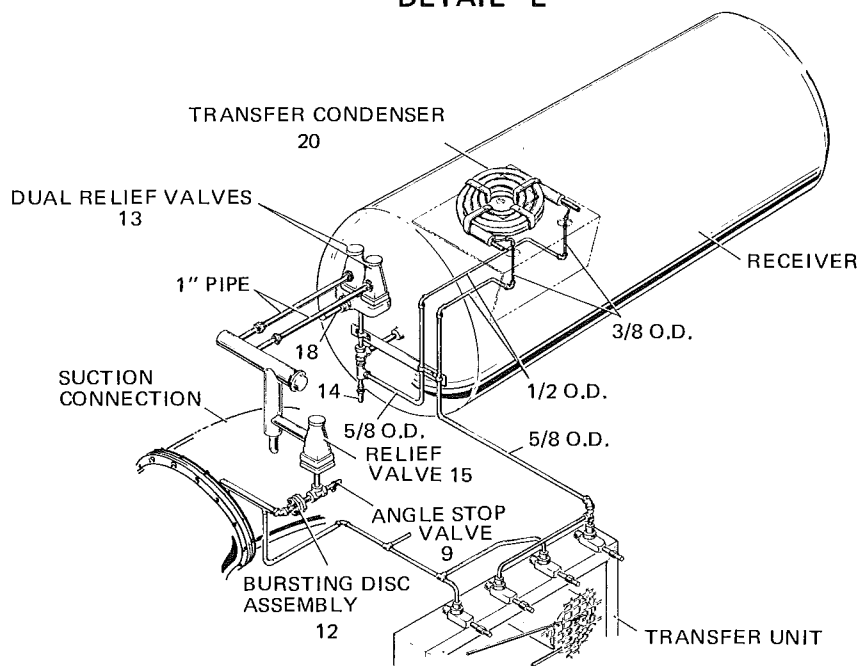


FIG. 3— TURBOPAK SYSTEM CONNECTIONS

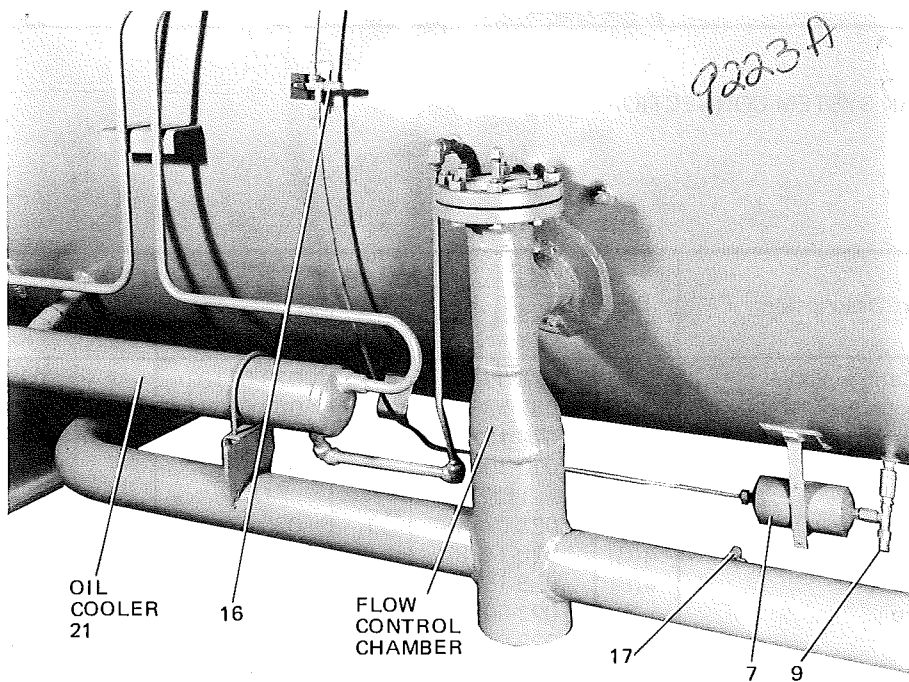
Item	Part Description	Fig.	Models					
			HT 670 thru HT 770		HT 820 thru HT 920		HT 980 & HT 1030	
			Part No.	Quan.	Part No.	Quan.	Part No.	Quan.
1	Isolator, Control Panel	3(A)	028-02162	3	028-02162	3	028-02162	3
2	Gasket, Round	3(B)	067-58661	1	067-58661	1	067-58661	1
3	Gasket, Discharge	3(C)	070-12208	1	070-12208	1	070-12208	1
4	Gasket Suction Connection	3(D)	070-10632 (12")	1	070-10632 (14")	1	070-10632 (14")	1
5	Coupling Dresser	2	023-07146	1	023-07145	1	023-07145	1
6	Cartridge, Dehydrator	4(G)	026-14787	3	026-14787	3	026-14787	3
7	Dehydrator	4(F)	026-13508	1	026-13508	1	026-13508	1
8	Valve, Stop	2	022-00086	3	022-00086	3	022-00086	3
9	Valve, Stop	4(F)	022-01873	2	022-01873	2	022-01873	2
10	Valve, Stop	2	022-00016	1	022-00016	1	022-00016	1
11	Coupling Dresser	2	023-07734	1	023-07734	1	023-07734	1
12	Disc. Bursting	4(E)	367-23795	1	367-23795	1	367-23795	1
13	Valve, HC Type (Dual Relief)	4(E)	468-09800	2	468-09800	2	468-09800	2
14	Valve, Angle Stop	4(E)	022-03673	1	022-03673	1	022-03673	1
15	Valve, Relief	4(E)	468-07881	1	468-07885	1	468-07885	1
16	Valve Stop, Globe	2	022-03709	1	022-03709	1	022-03709	1
17	Valve, Stop	4(F)	022-00695	1	022-00695	1	022-00695	1
18	Valve, Dual Stop	4(E)	468-08065	1	468-08065	1	468-08065	1
19	Indicator, Liquid Level (Rec.)	1	367-67997-012	1	367-67997-015	1	367-67997-015	1
20	Transfer Condenser	4(E)	026-10001	1	026-10001	1	026-10001	1
21	Oil Cooler	2	026-16174	1	026-16174	1	026-16174	1

HT TURBOPAK SYSTEM PARTS

DETAIL "E"



DETAIL "F"



DETAIL "G"

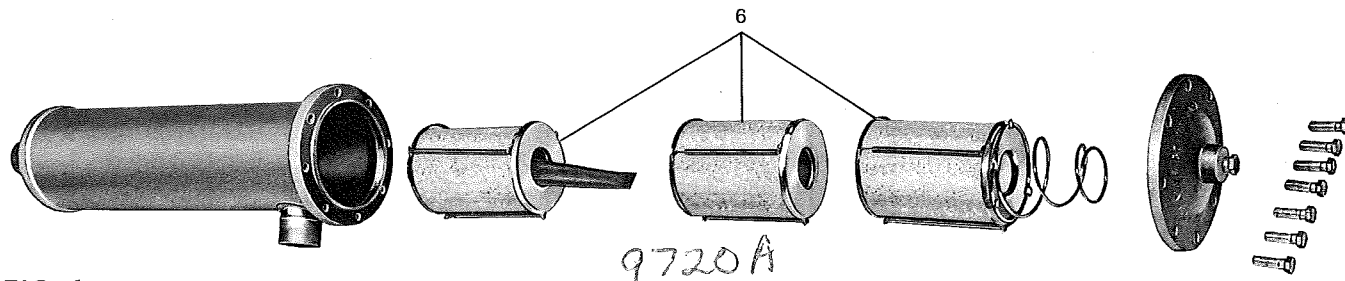


FIG. 4— TURBOPAK SYSTEM DETAILS

SPRING ISOLATORS

Model HT	Part No.	Location
670 Thru 1030	029-13320	Receiver End
670 Thru 1030	029-13321	Compressor End

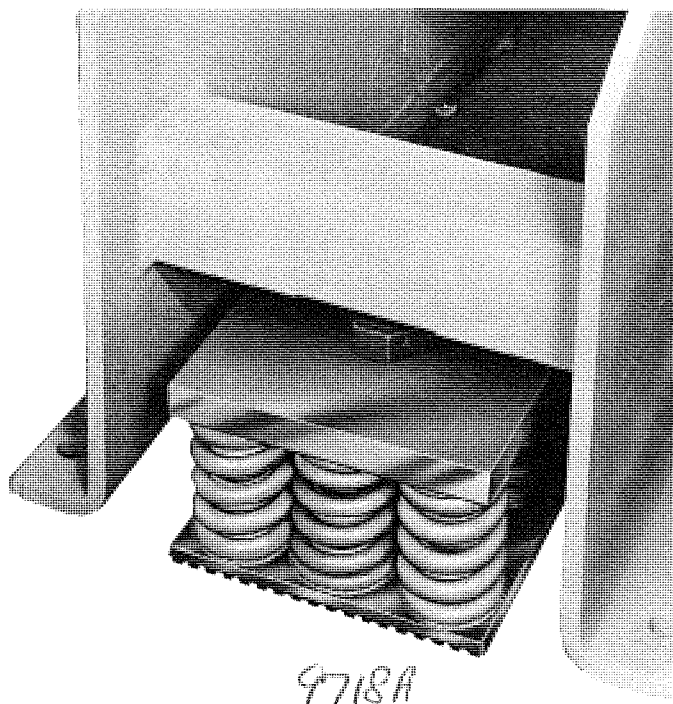


FIG. 5— SPRING ISOLATORS — MODELS HT670 THRU HT1030

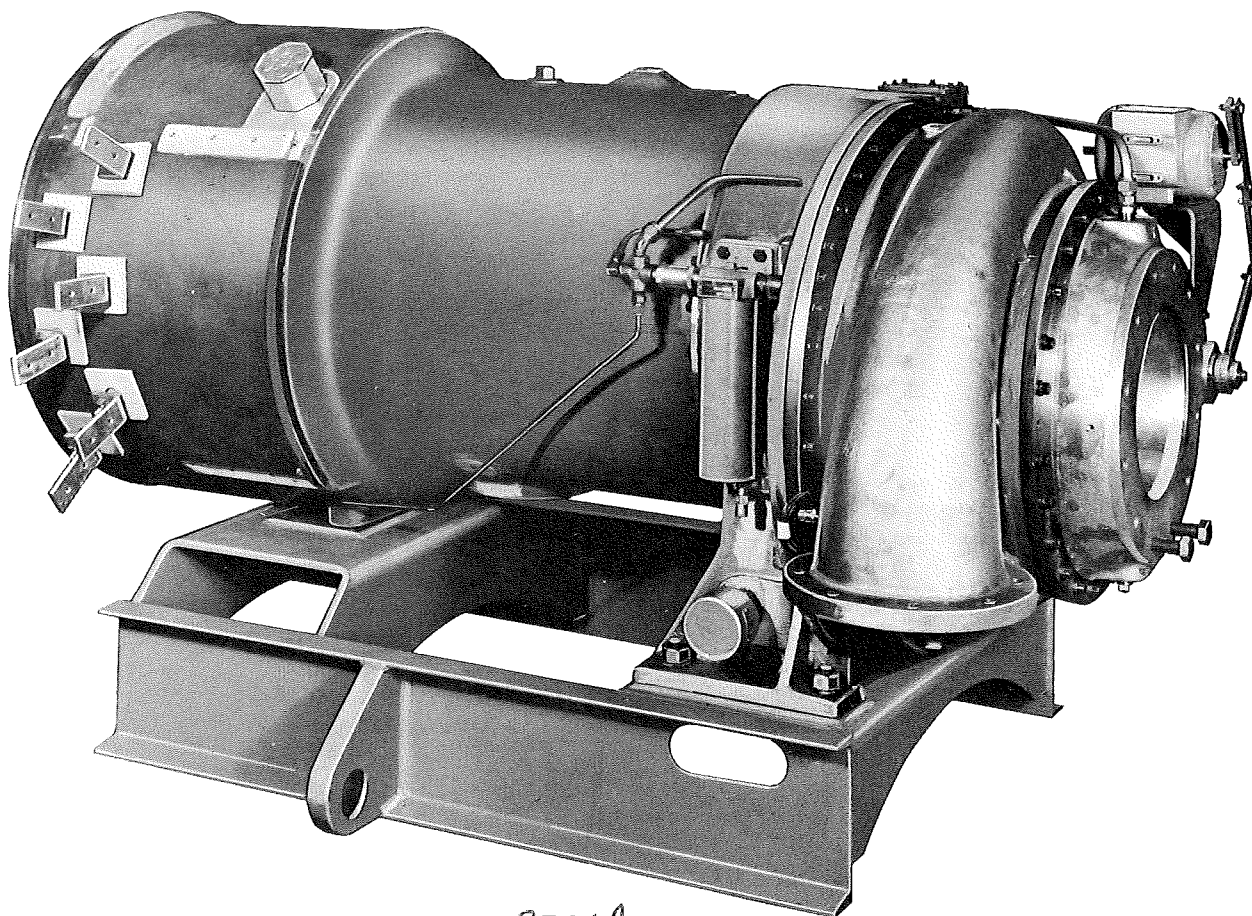
COMPOUNDS AND INSULATION TAPE

Description	Quan.	Part No.
Compound, Heat Conductive (For Thermometer Wells)	4 Oz. Can	013-00898
Thermal Insulation Tape—1/8" X 2" (Insulating Motor Terminals)	30 Ft. Roll	025-14931

TOUCH-UP PAINTS — SPRAY CANS

Description	Part No.
Carribean Blue Enamel	013-01835
Fawn Gray Enamel (Control Center)	013-01836

COMPRESSORS



9701A

FIG. 6— HERMETIC-MOTOR COMPRESSOR, MODEL MKA

Model HT	Compressor Model	Compressor Part No.	Voltage	Common Parts	Variable Parts
				See Page No.	
670, 720, 770, 820, 880CM	MKA 65	364-24168	Low	10,11	12
		364-24170	High	10,11	12
820C, 820CM, 880, 880M, 920, 980, 1030	MKA 73	364-24169	Low	10,11	12
		364-24171	High	10,11	12

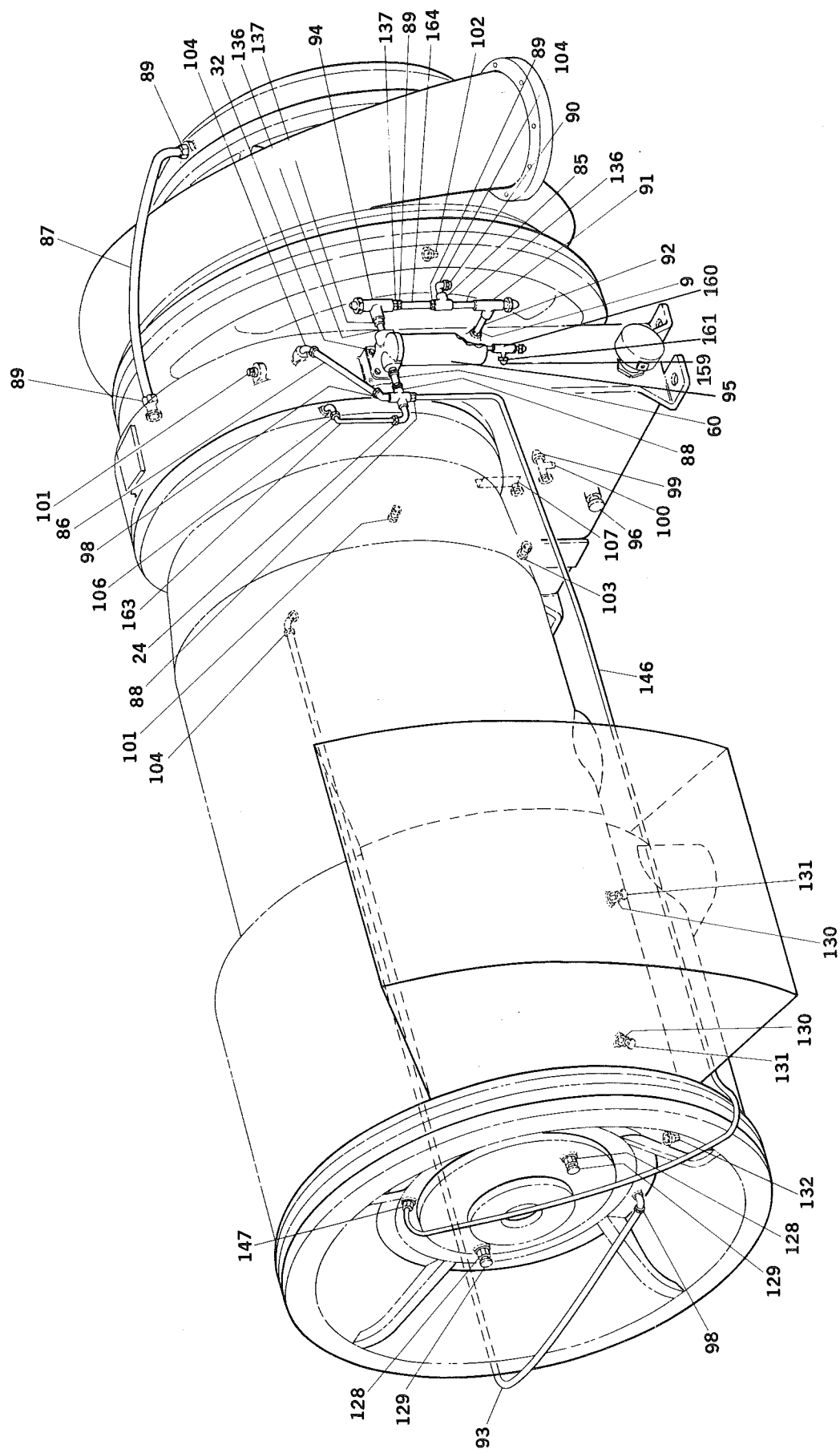
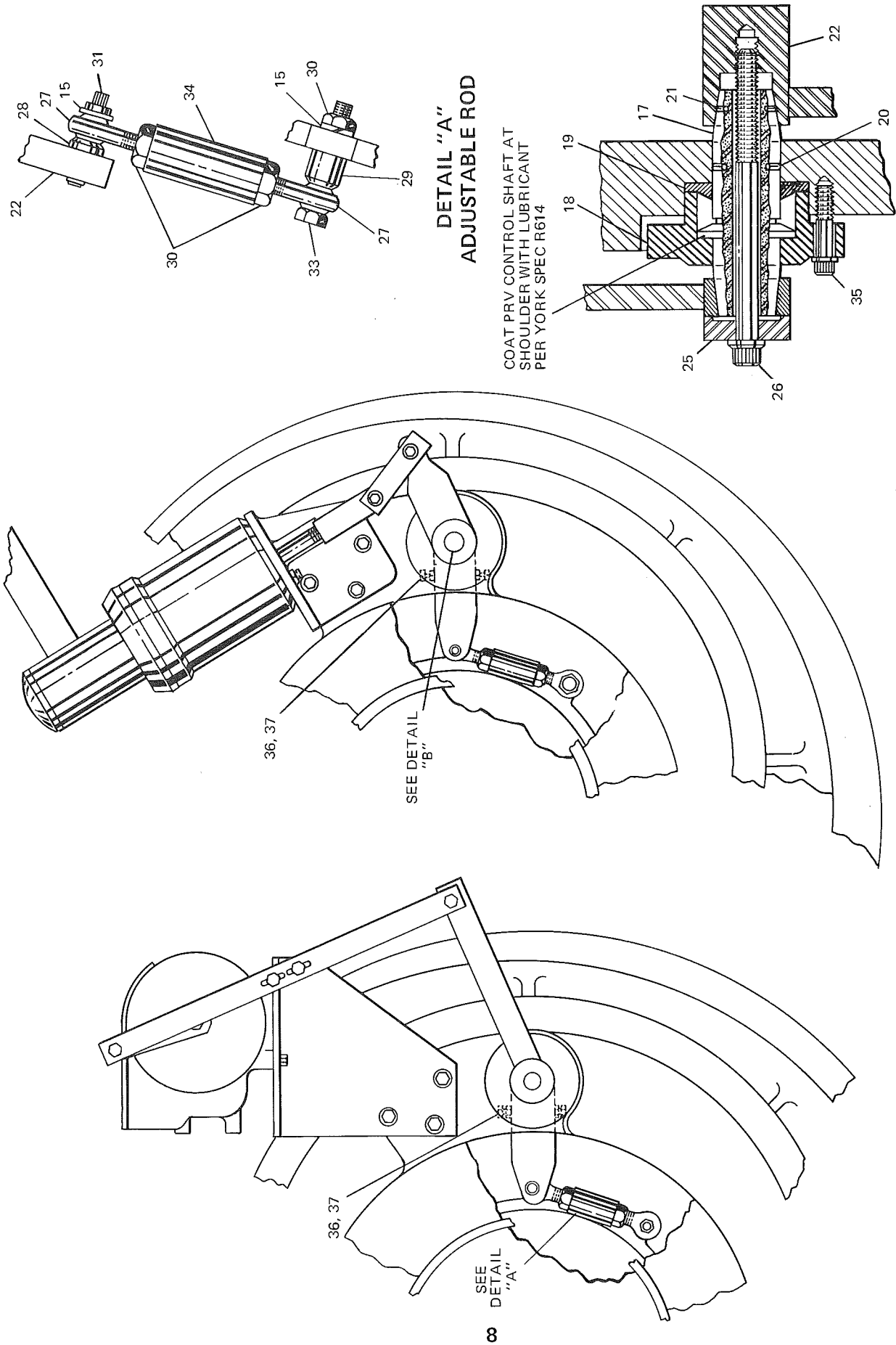


FIG. 8— MODEL MKA65 & MKA73 COMPRESSORS, EXTERIOR VIEW — PARTS LOCATION

COMPRESSORS—MKA65 & MKA73



COMPRESSORS—MKA65 & MKA73

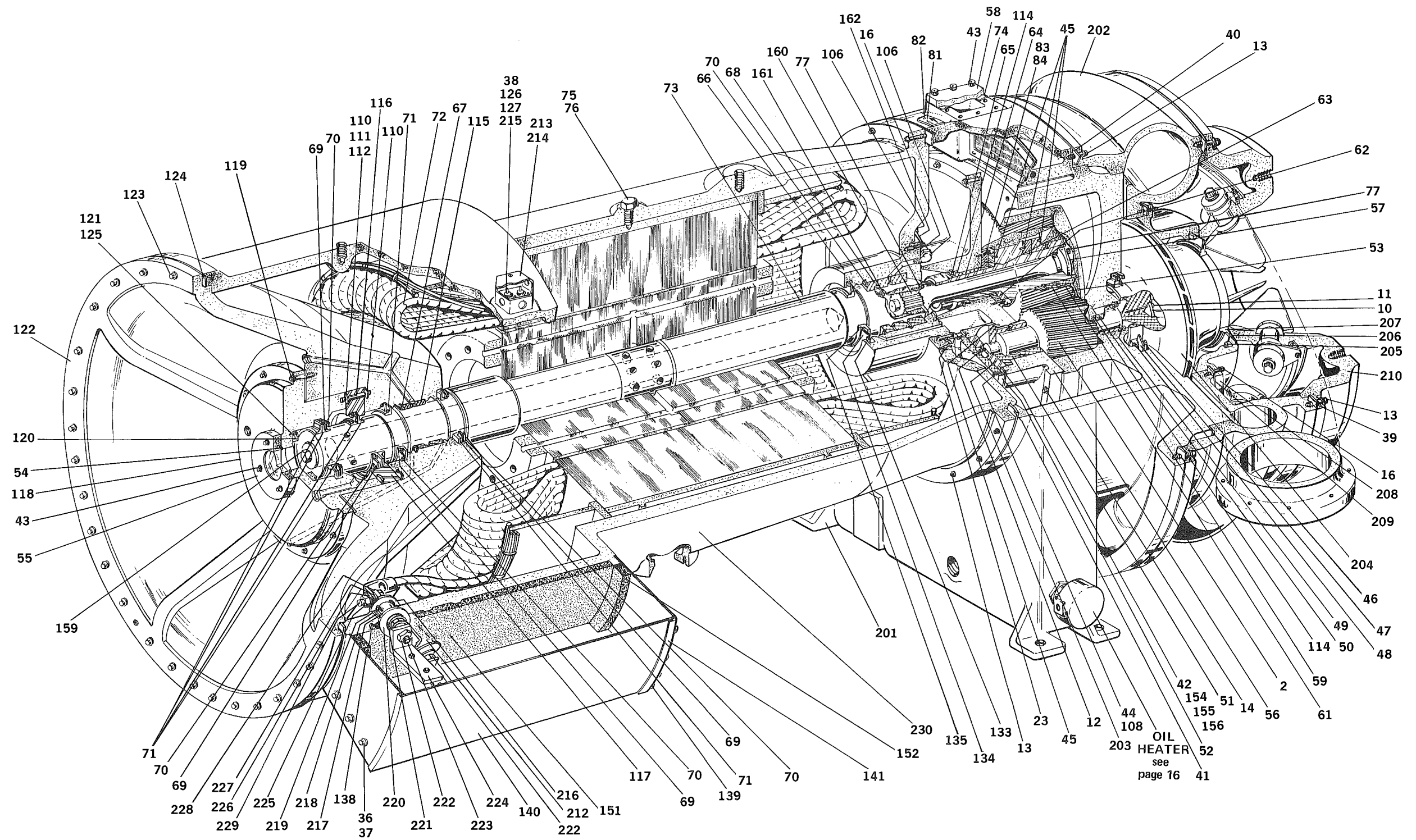
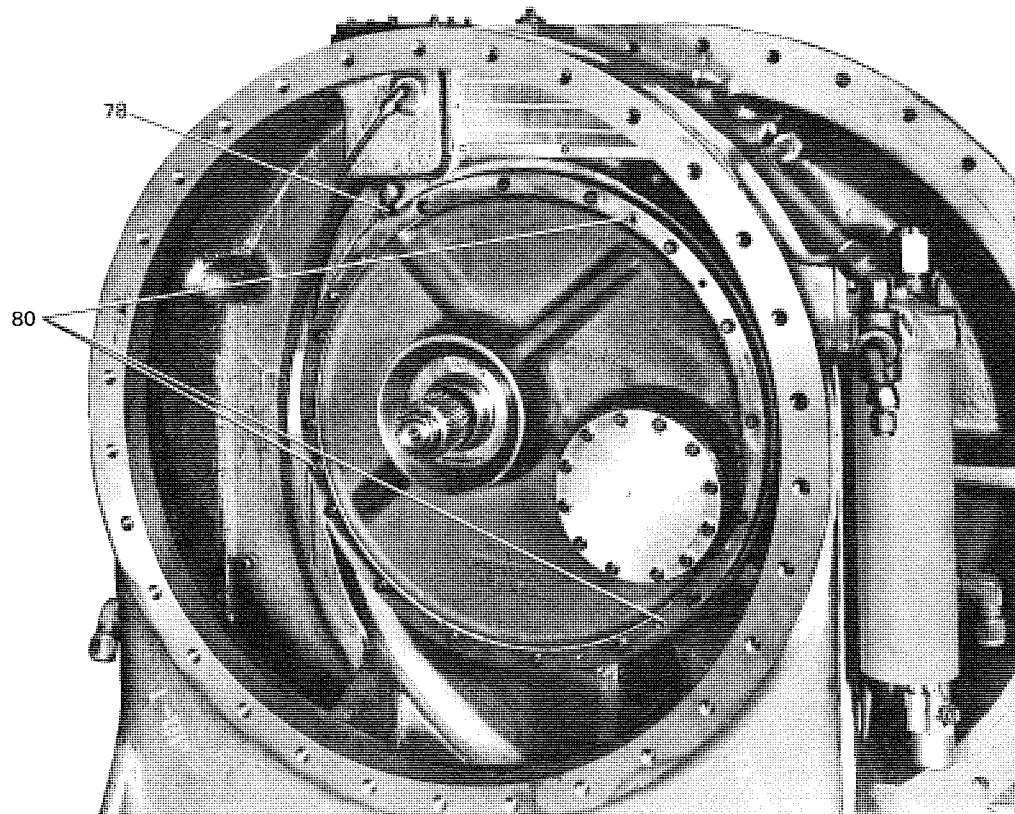
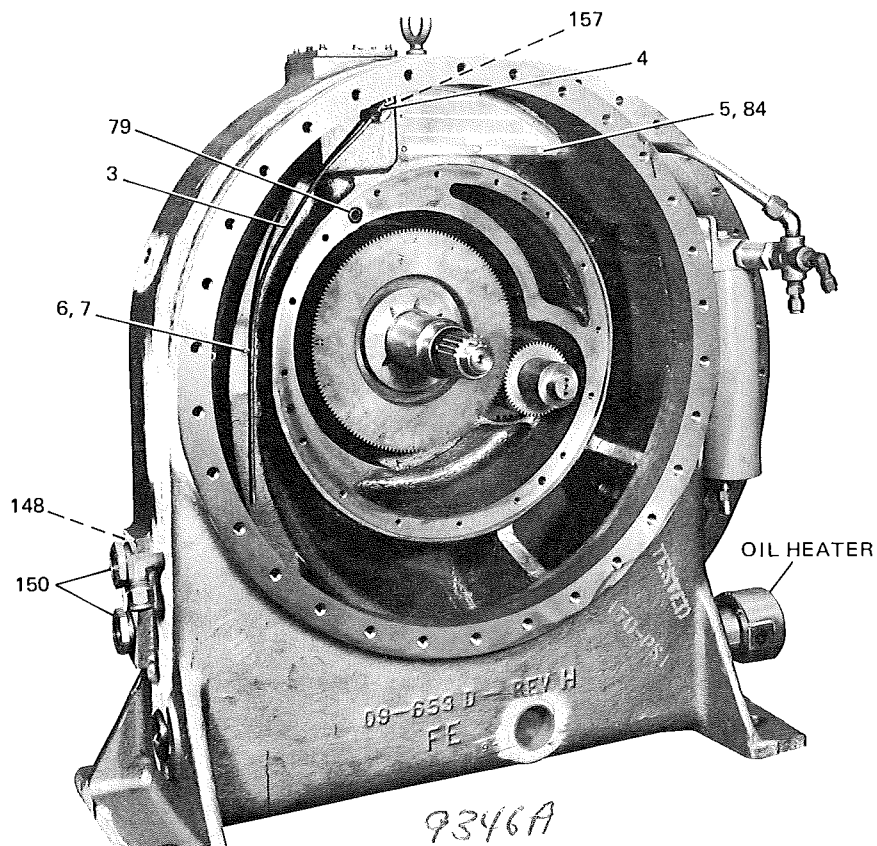


FIG. 7— MODEL MKA65 & MKA73 COMPRESSORS, PARTS LOCATION

COMPRESSORS—MKA65 & MKA73



9335A



9346A

FIG. 11— COMPRESSOR INTERNAL VIEW, PARTS LOCATION

HERMETIC COMPRESSOR COMMON PARTS LIST

Item	Description	Quan.	Part No.	Item	Description	Quan.	Part No.
1	Eliminator, Oil	1	364-28144	*42	Gasket, Cover, Thrust 1/32 Thk.	1	064-24121-004
2	Pinion	1	See Data	43	Screw Cap 12 Pt. Hd. 5/16-18 UNC-3A X 1 Lg.	12	021-12039
3	Tube, 1/4 O.D. X .049 W X 27-1/16 Lg.	1	Nameplate	44	Washer, 11/32 X 11/16 X .065 Thk.	12	021-05166
4	Elbow, 90°, 1/8 MPT X 1/4 Tube	1	067-91500	45	Pin, Insert, 1/4 Dia. X 5/8 Lg.	6	029-03989
5	Screw Mach. Rd. Hd. Recd. #10-24 UNC X 1/2 Lg.	1	023-07170	46	Ring, Retaining	1	029-10336
6	Screw Mach. Rd. Hd. Recd. #8-32 UNC X 3/8 Lg.	3	021-02459	47	Washer, Flat Spring	1	064-31191
7	Clamp, Tube 1/4 O.D.	1	021-09988	48	Ring, Seal, Balance Piston	1	064-31189
8	Tube, 5/8 O.D. X .049 W X 6 Lg.	1	023-07202	49	Ring, Retaining	1	029-13854
9	Adapter, 1 MPT X 1/2 FPT Both Ends	1	064-19162	*50	Bearing, Main (Pinion)	1	064-31190
10	Collar, Imp. Clamping	1	064-28148	51	Bearing, Thrust & Journal (Pinion)	1	064-31188
11	Screw Cap 12 Pt. Hd. 1/2-20 UNF-3A X 3 Lg.	1	064-24116	*52	Cover, Thrust	1	064-24124
12	Screw Cap 12 Pt. Hd. 5/16-18 UNC-3A X 3/4 Lg.	3	021-11515	53	Gear	1	See Data
13	Screw Cap 12 Pt. Hd. 5/8-11 UNC-3A X 1-3/4 Lg.	2	021-11394	*54	Seal, O-Ring 1-13/16 I.D. X 3/32 Sect.	1	Nameplate
14	Screw Cap 12 Pt. Hd. 3/8-16 UNC-3A X 2 Lg.	90	021-11127	55	Sight Glass	1	028-07407
15	Lockwasher, Spg. 3/8	16	021-11917	56	Housing, Bearing	1	026-13123
16	Screw Cap 12 Pt. Hd. 3/8-16 UNC-3A X 1-1/4 Lg.	2	021-05291	57	Shaft, Drive	1	064-23998
17	Shaft Control PRV	30	021-11141	58	Cover, Oil, Reservoir	1	029-11844
18	Cover, Shaft Control	1	029-11856	*59	Bearing, Thrust & Journal (Gear)	1	064-27411
19	Gasket, 2-1/2 O.D. X 2 I.D. X 1/16 Thk.	1	064-13909	60	Valve, Check 1/2"	1	064-23741
20	"O" Ring, 1-3/8 O.D. X 1-1/8 I.D. X 1/8 Sect.	1	028-00781	61	Collar, Thrust, Front (Gear)	1	022-01558
21	"O" Ring, 1-1/4 O.D. X 1" I.D. X 1/8 Sect.	1	028-04353	62	Collar, Thrust, Rear (Gear)	1	064-24125
22	Lever, PRV Device Int.	1	028-04522	*63	Bearing, Thrust (Gear)	1	064-24126
23	Screw Set Hex Soc. Cup Pt. #10-24 UNC X 3/16 Lg.	1	364-23745	*64	Bearing, Rear (Gear)	1	064-24127
24	Elbow, 90°, 3/8 Tube X 1/2 MPT	1	021-00693	65	Ring, Retaining	1	064-24105
25	Washer, Spl. 1-3/4 Dia. X 1/2 Lg.	1	023-08846	66	Housing, Bearing	1	029-08780
26	Screw Cap 12 Pt. Hd. 1/2-20 UNF-3A X 6 Lg.	1	064-08815	67	Ring, Retaining	1	064-24195
27	Bearing, Rod End Spher.	2	021-11998	*68	Bearing, Sleeve	1	029-07176
28	Fillpiece, 3/4 Dia. X 1/4 Lg.	1	029-08343	*69	Washer, Flat Spring	1	064-24199
29	Fillpiece, 3/4 Dia. X 23/32 Lg.	1	064-10821	70	Ring, Retaining	4	064-24254
30	Nut, Hex Reg. 3/8-24 UNF-2B	3	021-00474	*71	Ring, Shaft Seal	5	029-13161
31	Screw Cap, 12 Pt. Hd. 3/8-24 UNF-3A X 1-1/2 Lg.	1	021-11720	72	Stator, Motor	6	064-24255
32	Screw Cap Hex Hd. 1/2-13 UNC-2A X 1-1/4 Lg.	2	021-01567	73	Rotor, Motor	1	See Data
33	Screw Spec. 3/8-24 UNF X 2-1/2 Lg.	1	064-09287	74	Gasket, Cover, Oil, Reservoir	1	Nameplate
34	Rod, Adjustable	1	064-24117	75	Plug, Stator Locking	1	See Data
35	Screw Cap 12 Pt. Hd. 3/8-16 UNC-3A X 1-1/2 Lg.	2	021-11175	76	"O" Ring, 1-1/8 O.D. X 15/16 I.D. X 3/32 Sect.	1	Nameplate
36	Screw Cap Hex Hd. 1/4-20 UNC-3 X 3/4 Lg.	12	021-01379	77	Screw Cap 12 Pt. Hd. 5/16-24 UNF-3A X 1 Lg.	1	064-27412
37	Nut, Hex 1/4-20 UNC-2B	12	021-00450	78	Plug, Pipe Hex Soc. Csk. 3/8	1	064-12161
38	Locktite "Nut Lock"	.004	013-01678	*79	"O" Ring, 7/8 O.D. X 11/16 I.D. X 3/32 Sect.	24	028-05403
*39	Gasket, PRV Hsg. to Scroll	1	064-24118	80	Pin, Dowel, Str. 1/2 Dia. X 2 Lg.	2	021-13137
40	Gasket, Scroll to Rotor Supp.	1	064-24119			1	023-04298
*41	Gasket, Rotor Supp. to Bearing Housing	1	064-24120			1	028-05404
						3	029-10646

* - Parts Included Field Replacement Kit - 364-34337

† - Kit Includes Obsolete Parts { Pin, Insert 2 029-06841
Bearing, Main 1 064-23923

HERMETIC COMPRESSOR COMMON PARTS LIST CONTINUED

YORK DIVISION BORG-WARNER
YORK TURBOPAK—MODEL HT
FORM 160.51-RP

Item	Description	Quan.	Part No.	Item	Description	Quan.	Part No.
81	Nameplate, Rotation	1	029-00334	123	Screw Cap 12 Pt. Hd. 5/8—11 UNC—3A X 2 Lg.	36	021-11971
82	Screw Drive #4 X 1/4 Lg.	6	021-03720	*124	Gasket, Rear Bearing Hsg.	1	064-24283
83	Screw Cap Hex Soc. #10—24 UNC X 1 Lg.	2	021-10153	125	Washer, Plain, .265 I.D. X 1/2 O.D. X 1/16	2	021-10189
84	Washer, Plain, 7/32 I.D. X 1/2 O.D. X .049	5	021-05164	126	Bushing, Electric	4	025-15948
85	Tee, Screw 1/2 FPT	1	023-04336	127	Adapter—Pipe	4	064-27915
86	Tube, 5/8 O.D. X .049 Wall X 14 Lg.	1	064-31775	128	Connection, 3/4 Tube X 3/4 MPT	2	023-06807
87	Tube, 5/8 O.D. X .049 Wall X 25 Lg.	1	064-31777	129	Cap, 3/4 Tube	2	023-09072
88	Connection, 3/8 Tube X 1/2 MPT	1	023-08876	130	Connection, 3/8 Tube X 3/8 MPT	2	023-06802
89	Connection, 5/8 Tube X 1/2 MPT	4	023-06805	131	Cap, 3/8 Tube	2	023-08880
90	Cap, 5/8 Tube	1	023-08892	132	Plug, Pipe, Rec. Hd. 1/2	1	023-01994
91	Valve, Pressure Relief 1/2 FPT	1	022-03427	133	Ring, Retaining Int.	1	029-08503
92	Nipple, Pipe—1/2 Sch. 80 X 1-1/2 Lg.	1	067-39602	*134	Washer, Flat Spring	1	064-24378
93	Tubing, 5/8 O.D. X .049 Wall X 86 Lg.	1	064-31778	*135	Ring, Shaft Seal	1	064-24377
94	Valve, Stop Angle 3/4 Type 2	1	368-00008	136	Nipple, Pipe 1/2 Sch. 80 X 1-1/8 Lg.	2	067-39601
*95	Filter, 1/2 FPT	1	026-13831	137	Bushing, Pipe 1/2 X 3/4	2	023-04010
96	Cap, Seal 2-1/8	1	028-04653	138	Screw Cap 12 Pt. Hd. 3/8—16 UNC—3A X 5/8 Lg.	10	021-11979
97	Cross, Screw 1/2 FPT	1	023-04328	139	Screw Self Tapping#6—32 X 1/4 Lg.	6	021-10027
98	Elbow, 45°, 5/8 Tube X 1/2 MPT	2	023-07197	140	Cover, Box Term.	1	364-24227
99	Valve, Stop, Angle 3/8—Type 1	1	368-00003	141	Panel, Side Term. Box	1	364-24226
100	Plug, Pipe, Sq. Hd. 3/8	1	023-01983	142	Support, End Term. Box (Upper)	1	064-24223
101	Plug, Pipe, Sq. Hd. 1/4	2	023-01972	143	Support, End Term. Box (Lower)	1	064-24224
102	Plug, Pipe, Sq. Hd. 3/4	1	023-04053	144	Tape, Glass Fibre	1 ft.	035-00131
103	Plug, Pipe, Hex Skt. Csk. 2"	1	023-02027	145	Varnish (Gal.)	.010	013-01016
104	Elbow, 90°, 5/8 Tube X 1/2 MPT	4	023-06818	146	Tubing, 3/8 O.D. X .049 Wall	13 ft.	064-31767
105	Plug, Pipe, 1/4 Hex Skt. Csk.	1	023-04298	147	Connection, 3/8 Tube X 1/4 MPT	1	023-06801
106	Elbow, 90°, 3/8 Tube X 1/4 MPT	3	023-06814	148	Nameplate, Patent	1	029-13270-002
107	Thermometer	1	026-16555	149	Pin, Insert 1/8 X 9/16 Lg.	1	029-03990
108	Screw Cap 12 Pt. Hd. 5/16—18 UNC—3A X 1-3/8 Lg.	12	021-12465	150	Plug, Sight 1-1/2—11-1/2	2	026-16556
109	Compound Sealer	.050	013-01671	151	Ins., Therm. 3/4 X 20-3/4 X 24-1/4	1	064-29677
*110	Gasket, Liquid Seal Hsg. 1/16	2	064-24282	152	Ins., Therm. 3/4 X 1 X 25-3/4	2	064-29676
*111	Gasket, Liquid Seal Hsg. 1/32	1	064-24281	*153	Grease, Petroleum (Lbs.)	.050	044-00892
*112	Gasket, Liquid Seal Hsg. 1/64	1	064-24280	*154	Gasket, Cover Thrust .005 thk.	1	064-24121-001
113	Plug, Pipe 1/8 Hex Skt. Csk. Hd.	2	023-01970	*155	Gasket, Cover Thrust .010 thk.	1	064-24121-002
*114	Pin, Insert, 3/32 X 5/16 Lg.	2	029-03990	*156	Gasket, Cover Thrust .015 thk.	1	064-24121-003
*115	Bearing, Sleeve (Term. End)	1	064-24198	157	Screw, Set (Special)	1	064-29707
116	Pin, Insert 3/8 Dia. X 2 Lg.	1	029-09010	158	Label, Caution	1	035-00874
117	Plate, Retaining, Liquid Seal	1	064-24197	159	Bonnet, Flare 1/4	1	023-01024
118	Hsg. Liquid Seal	1	064-24196	160	Valve, Stop Angle 1/4 FLA x 1/4 NPT	1	022-03836
119	Screw Cap 12 Pt. Hd. 3/8—16 UNC—3A X 1-3/4	12	021-11916	161	Nut, Flare 1/4	1	021-05675
*120	Bearing, Rev. Thrust	1	064-24284	162	Tube, 3/8 O.D. X .049 Wall X 17 Lg.	1	064-31762
121	Screw Cap 12 Pt. 1/4—20 UNC X 1/2	2	021-11970	163	Tube, 3/8 O.D. X .049 Wall X 9 Lg.	1	064-31760
122	Hsg. Bearing, Terminal End	1	064-23951	164	Tube, 5/8 O.D. X .049 Wall X 9 Lg.	1	064-31774

* — Parts Included Field Replacement Kit — 364-34337

† — Kit Includes Obsolete Parts { Pin, Insert 2 029-06841
Bearing, Main 1 064-23923

HERMETIC COMPRESSOR VARIABLE PARTS LIST

Item	Description	Model MKA-65 (L.V.) 364-24168		Model MKA-73 (L.V.) 364-24169		Model MKA-65 (H.V.) 364-24170		Model MKA-73 (H.V.) 364-24171	
		Part No.	Quan.	Part No.	Quan.	Part No.	Quan.	Part No.	Quan.
200	Common Parts	See Pg. 10 & 11	—	See Pg. 10 & 11	—	See Pg. 10 & 11	—	See Pg. 10 & 11	—
201	Support, Rotor	064-24128	1	064-24129	1	064-24128	1	064-24129	1
202	Scroll, Rotor	064-23755	1	064-23754	1	064-23755	1	064-23754	1
203	Collar, Thrust (Pinion)	064-24130	1	064-24131	1	064-24130	1	064-24131	1
204	Impeller	064-23824	1	064-23825	1	064-23824	1	064-23825	1
205	Ring, Impeller Seal	064-23977	1	064-23980	1	064-23977	1	064-23980	1
206	Washer, Flat Spring	064-23978	1	064-23981	1	064-23978	1	064-23981	1
207	Ring, Internal Retaining	064-23979	1	064-23982	1	064-23979	1	064-23982	1
208	Plate, Impeller Seal Retaining	064-23726	1	064-23727	1	064-23726	1	064-23727	1
209	Gasket, Retaining Plate	*064-24122	1	*064-24123	1	*064-24122	1	*064-24123	1
210	Device, P.R.V.	364-27407	1	364-27408	1	364-27407	1	364-27408	1
211	Bar, Jumper	See Sales Ord.	3	See Sales Ord.	3	—	—	—	—
212	Box, Electrical Octagon	025-10290	1	025-10290	1	—	—	—	—
213	Cover, Box, Electrical Octagon	025-10291	1	025-10291	1	—	—	—	—
214	Terminal, Push-on, Female	025-06642	4	025-06642	4	025-06466	4	026-06466	4
215	Terminal, Electrical 1/8 NPT	025-09346	4	025-09346	4	025-15923	4	025-15923	4
216	Gasket, Round 1-5/16 O.D. X 7/8 I.D. X 1/16 thk.	—	—	—	—	028-08356	3	028-08356	3
217	Ring "O" 1-9/64 O.D. X 22/64 I.D. X 9/64 Sect.	028-07761	6	028-07761	6	028-07761	3	028-07761	3
218	Ring "O" 1-41/64 O.D. X 1-23/64 I.D. X 9/64 Sect.	028-07760	6	028-07760	6	028-07760	3	028-07760	3
219	Bushing, Terminal Bolt	025-14468	6	025-14468	6	025-16000	3	025-16000	3
220	Plate, Insulating	025-14470	12	025-14470	12	025-14470	6	025-14470	6
221	Washer, Plain	021-05157	6	021-05157	6	021-05157	3	021-05157	3
222	Nut, Jam Hex.	021-11608	12	021-11608	12	021-11608	6	021-11608	6
223	Bolt, Terminal	064-22992	6	064-22992	6	064-22992	3	064-22992	3
224	Connector, Terminal	064-23092	6	064-23092	6	064-23092	3	064-23092	3
225	Nut, Hex 3/8 — 16 UNC—3B	021-00466	6	021-00466	6	021-00466	3	021-00466	3
226	Washer, Plain	021-01274	6	021-01274	6	021-01274	3	021-01274	3
227	Bar, Locking	025-14558	2	025-14558	2	025-14558	1	025-14558	1
228	Washer, Terminal Bolt	064-12740	6	064-12740	6	064-12740	3	064-12740	3
229	Screw, Cap 12 Pt. Hd. 3/8 — 16 UNC—3A	021-11920	6	021-11920	6	021-11920	3	021-11920	3
230	Housing, Motor	064-24194	1	064-24194	1	064-24707	1	064-24707	1

* — Parts Included Field Replacement Kit — 364-34337

COMPRESSORS MKA65 & MKA73

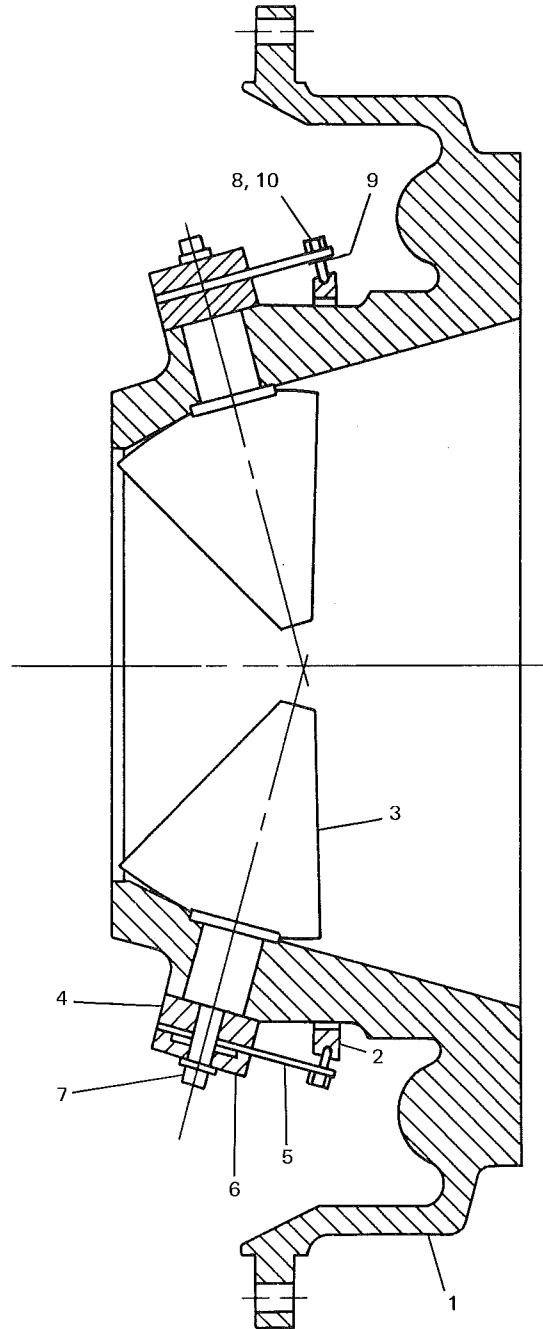
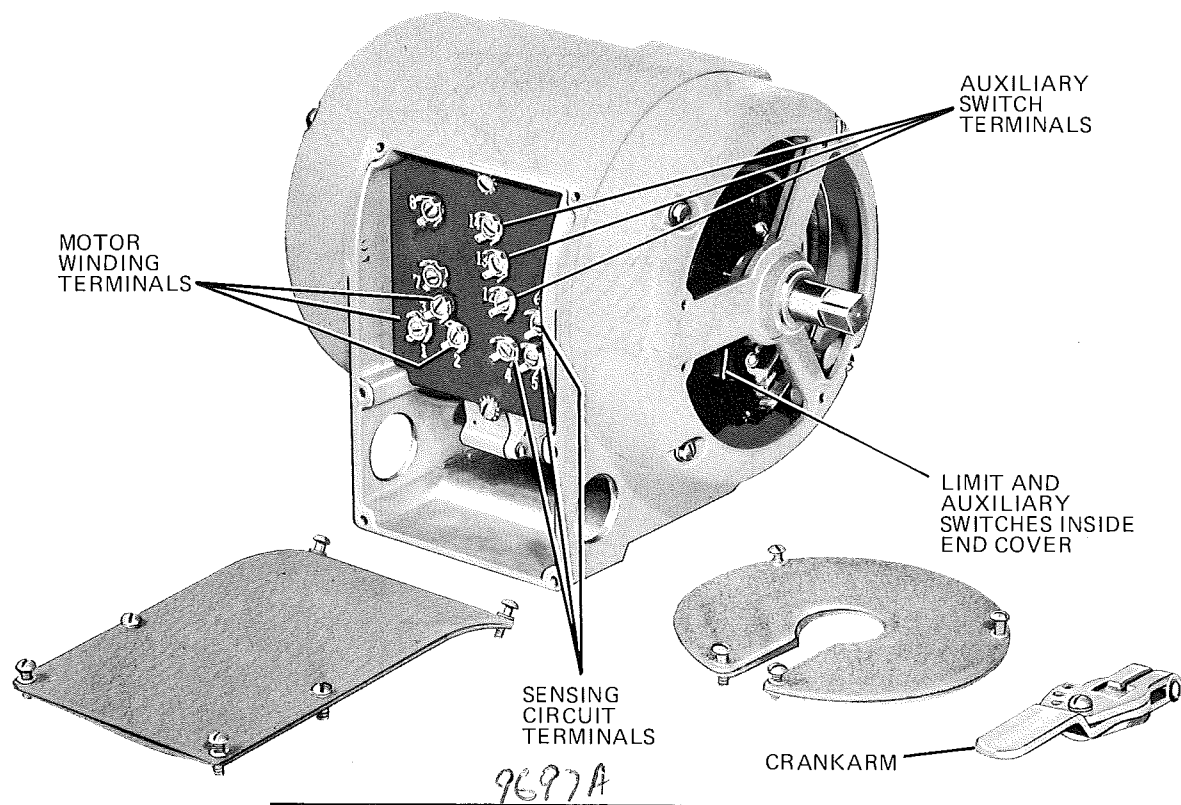


FIG. 12— PRV ASSEMBLY

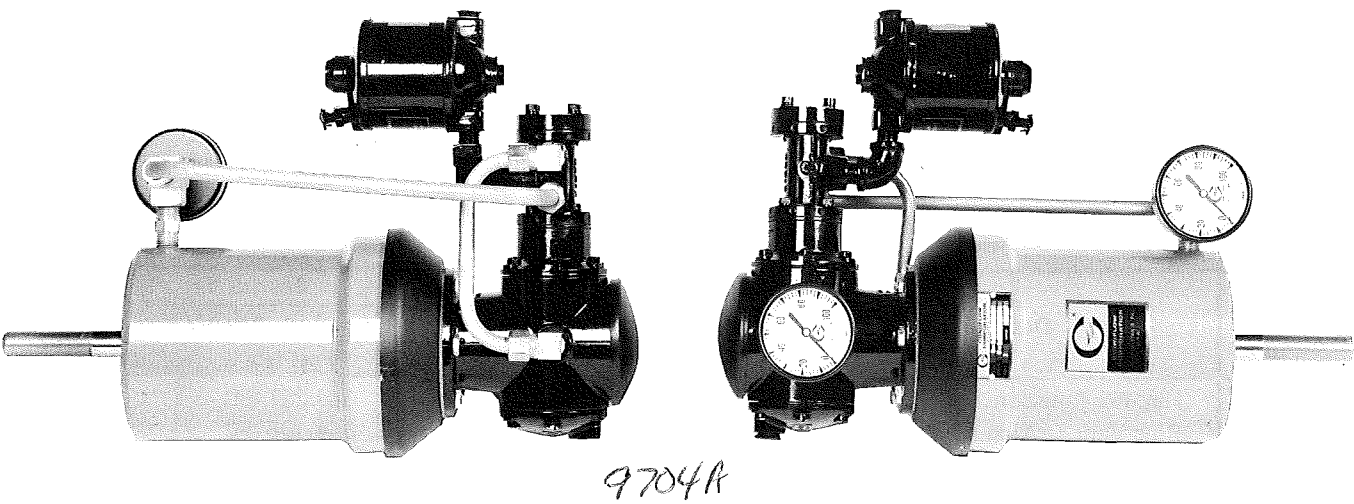
Item	Description	Models			
		MKA-65		MKA-73	
		Part No.	Quan.	Part No.	Quan.
1	Hsg.-Pre-Rotation	064-23747D	1	064-23748D	1
2	Ring-Vane Driving	064-10815C	1	064-10815C	1
3	Vane-Pre-Rotation	064-18781D	9	064-18781D	9
4	Washer	064-10819A	9	064-10819A	9
5	Arm-Vane	064-10818A	9	064-10818A	9
6	Washer-Special	064-09289A	9	064-09289A	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

PRV—ELECTRIC MOTOR ACTUATORS



Compr. Model	Part No.	Quan.
MKA-65	025-16381	1
MKA-73	025-16381	1

FIG. 14—ELECTRIC MOTOR ACTUATORS



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

FIG. 15— PRV – AIR OPERATED (PNEUMATIC) POSITIONERS

COMPRESSORS—MKA65 & MKA73

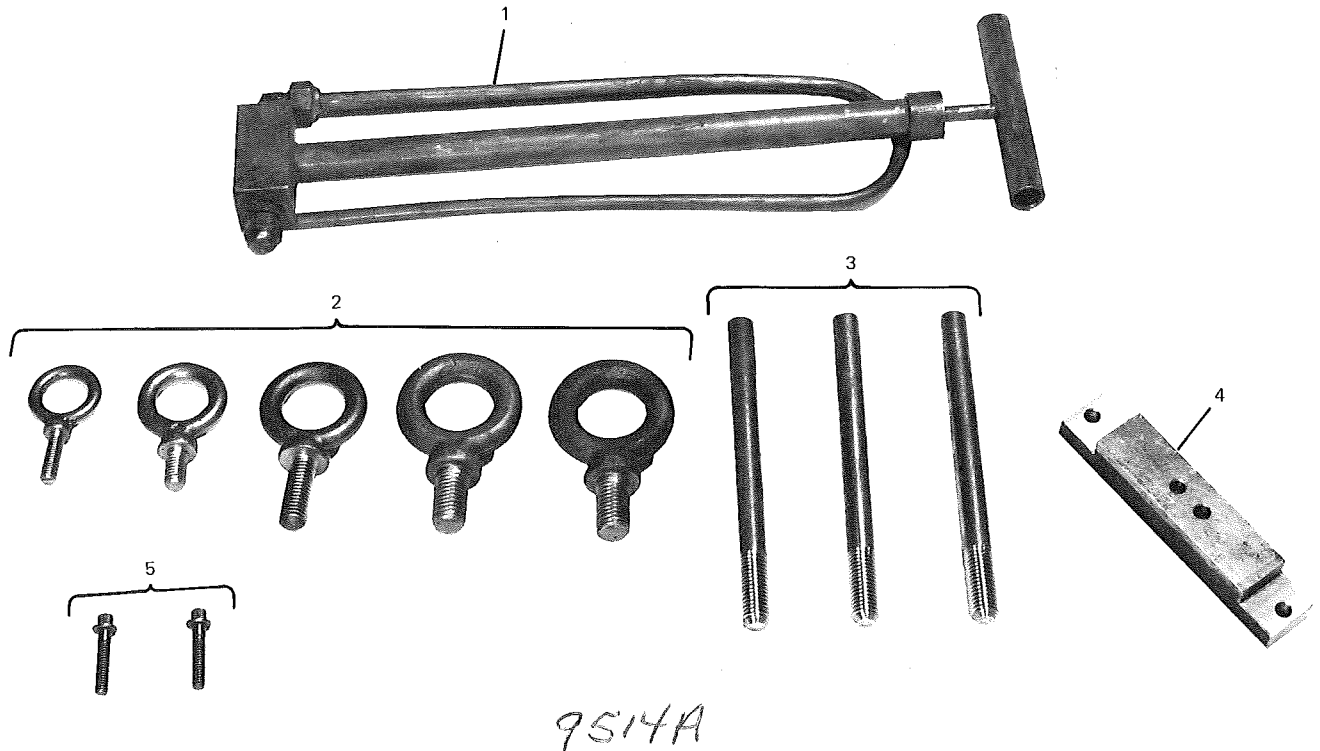


FIG. 13— COMPRESSOR TOOLS FOR MODELS MKA65 & MKA73

Item	Tool Description	Part No.	Quan.
1	Complete Tool Kit	464-24250	1
	Hand Oil Pump	470-10654*	1
2	Eyebolts		
	1/2	021-00306	1
	3/8	021-13498	1
	5/8	021-12366	1
	3/4	021-00307	2
3	Guide Studs 5/8 X 7-1/2" Lg.	064-06798	3
4	Tool, H.S. Shaft Locking 1" Thk. X 1-1/4 X 6-1/2	064-27542	1
5	Screw, Cap 12 pt. Hd. 5/16-18 UNC-2A X 1-3/8 Lg.	021-12465	2

*Includes Hand Oil Pump Seal, Part No. 026-10904.

OIL PUMP AND MOTOR ASSEMBLY

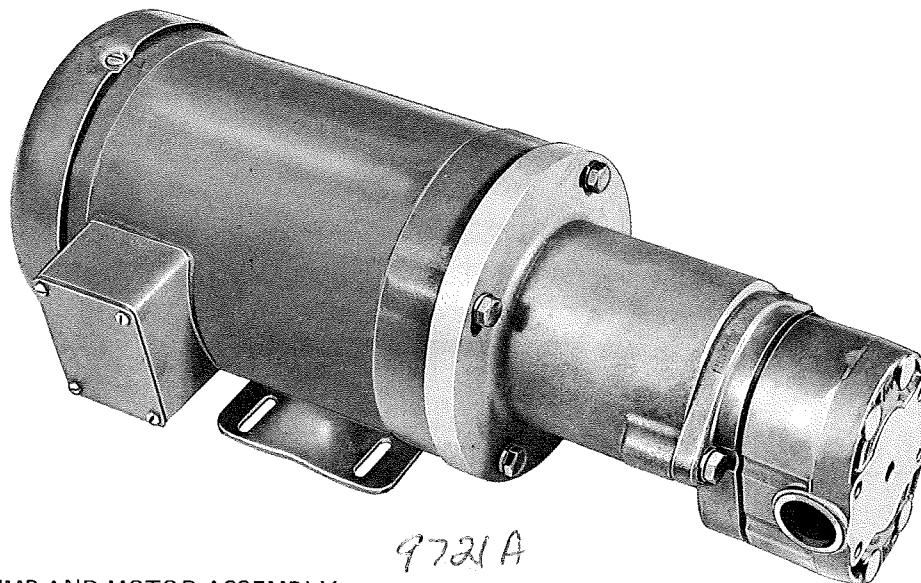


FIG. 16— OIL PUMP AND MOTOR ASSEMBLY

Voltage	Part No.
208-3-60	026-16027
220/440, 230/460, 240/480	026-16441
550/575/600-3-60	026-16442
380-3-50	026-17098
415-3-50	026-17099
500-3-50	026-17922

OIL PUMPS

Model	Part No.
3 PH, 60 Hz.	026-17179
3 PH, 50 Hz.	026-17180

SEAL KIT

SEAL KIT (Consists of seal, retainer plate, special seal retainer plate, "O" ring, and three screws.)	026-17178
---	-----------

MOTORS

Voltage	Part No.
230/460-3-60	024-16705
208-3-60	024-16706
575-3-60	024-16707
230/460-3-60 (explosion proof)	024-16708

JUMPER BARS

Model	Compr. Model	Part No.
HT 670 thru HT 1030	MKA-65, MKA-73	364-24252

OIL HEATERS

Description	Part No.	Quan.
1000W, 120V	025-09445	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

TOOLS

Description	Part No.
Pliers, Waldles Truarc. No. 5	029-08590
Pliers, Waldles Truarc. No. 7	029-07934

LUBRICANTS, OILS AND COMPOUNDS

Description	Part No.
Thread Compound, Ari 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

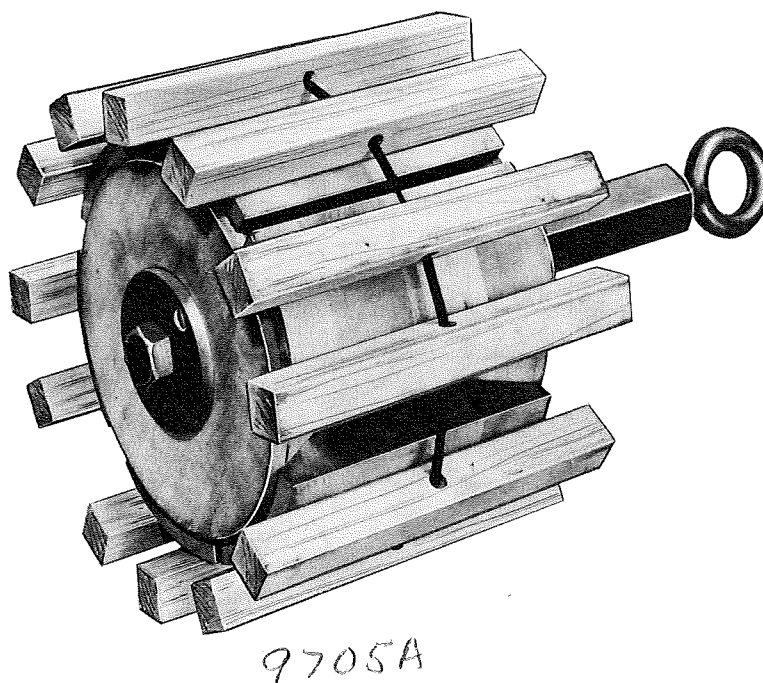
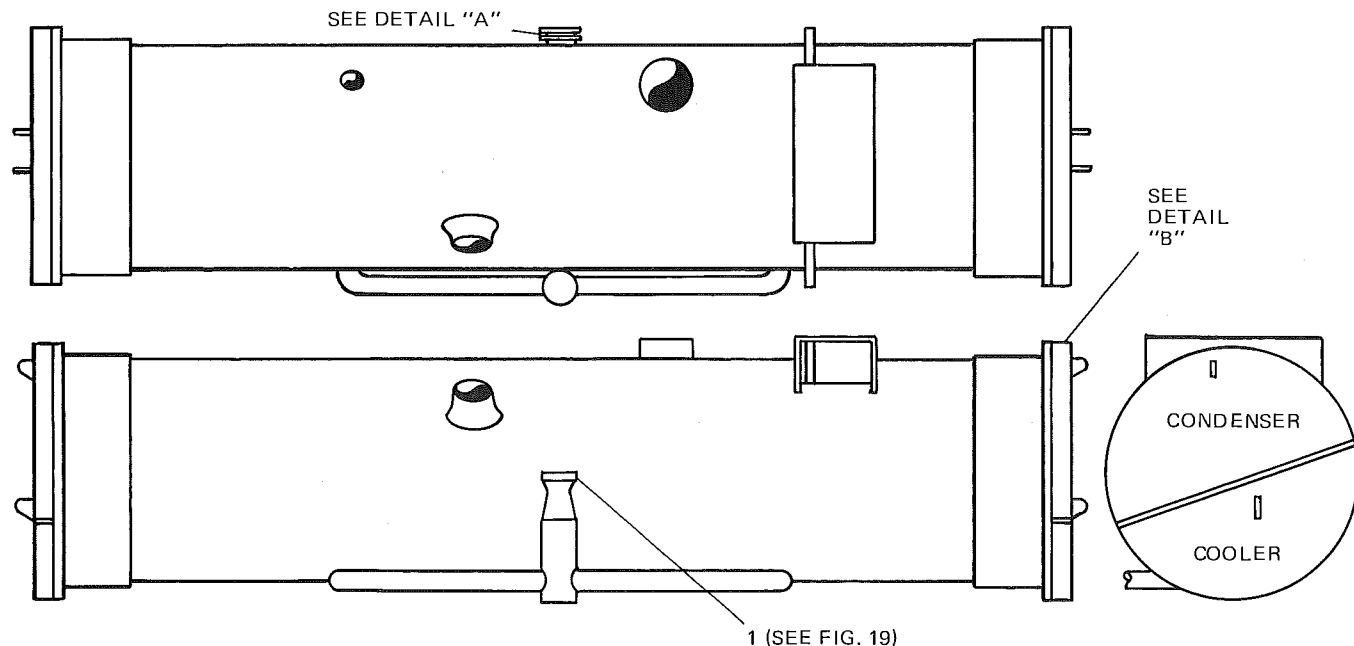


FIG. 17— EXPANDING MANDREL

MANDREL PARTS NUMBERS

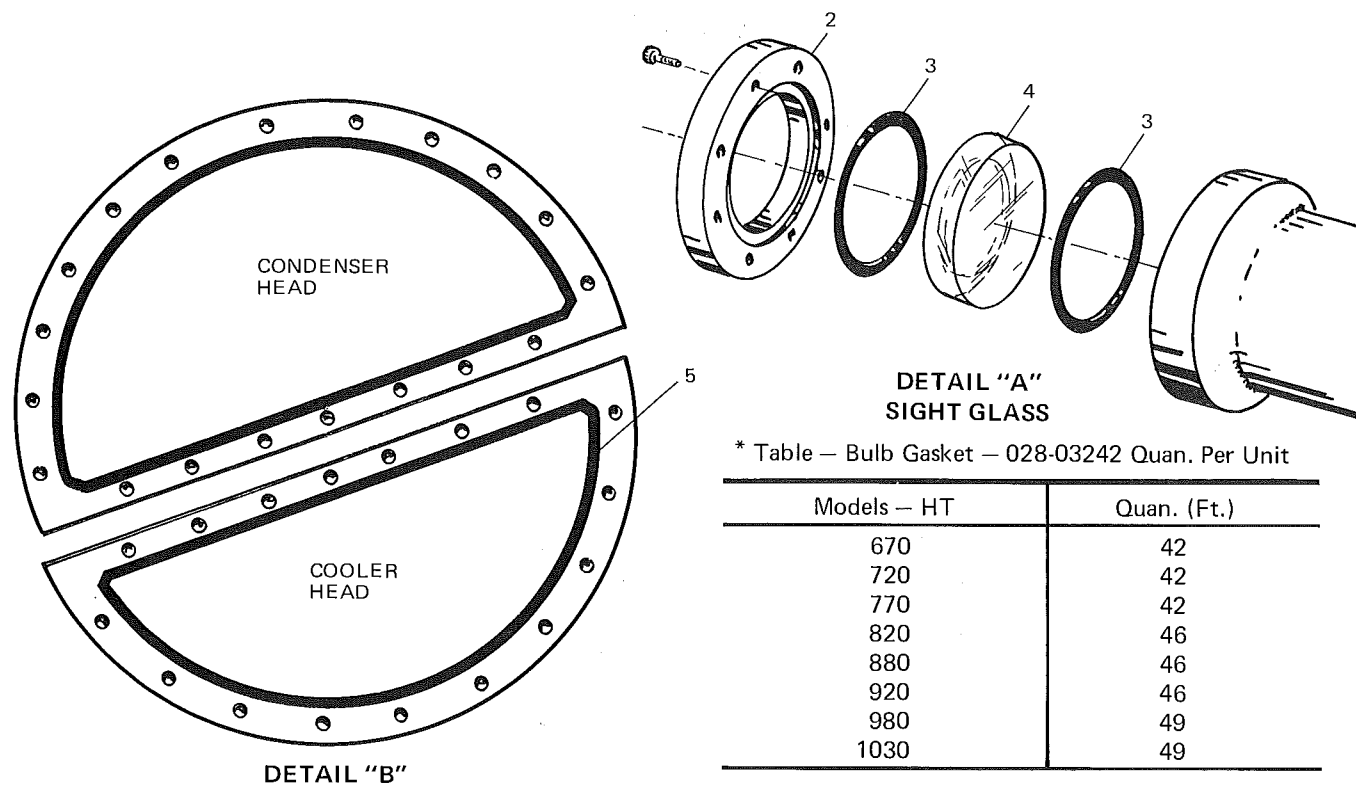
Compressor Model No.	Min. Dia.	Max. Dia.	Part No.
MKA-65	12	14	029-13872
MKA-73	12	14	029-13872

COOLERS AND CONDENSERS



Item	Part Description	Models								
		HT 670, 720 & 770			HT 820, 880 & 920			HT 980 & 1030		
		Part No.	Quan.	Fig.	Part No.	Quan.	Fig.	Part No.	Quan.	Fig.
1	Gasket	067-57402	1		067-57402	1		067-57402	1	
2	Gland, Sight Glass	067-27590	1		067-27590	1		067-27590	1	
3	Gasket, Sight Glass	070-16406	2		070-16406	2		070-16406	2	
4	Glass, Sight	026-09608	1		026-09608	1		026-09608	1	
5	Gasket, Bulb	028-03242	*		028-03242	*		028-03242	*	

FIG. 18— COOLER-CONDENSER SHELL



FLOW CONTROLLER

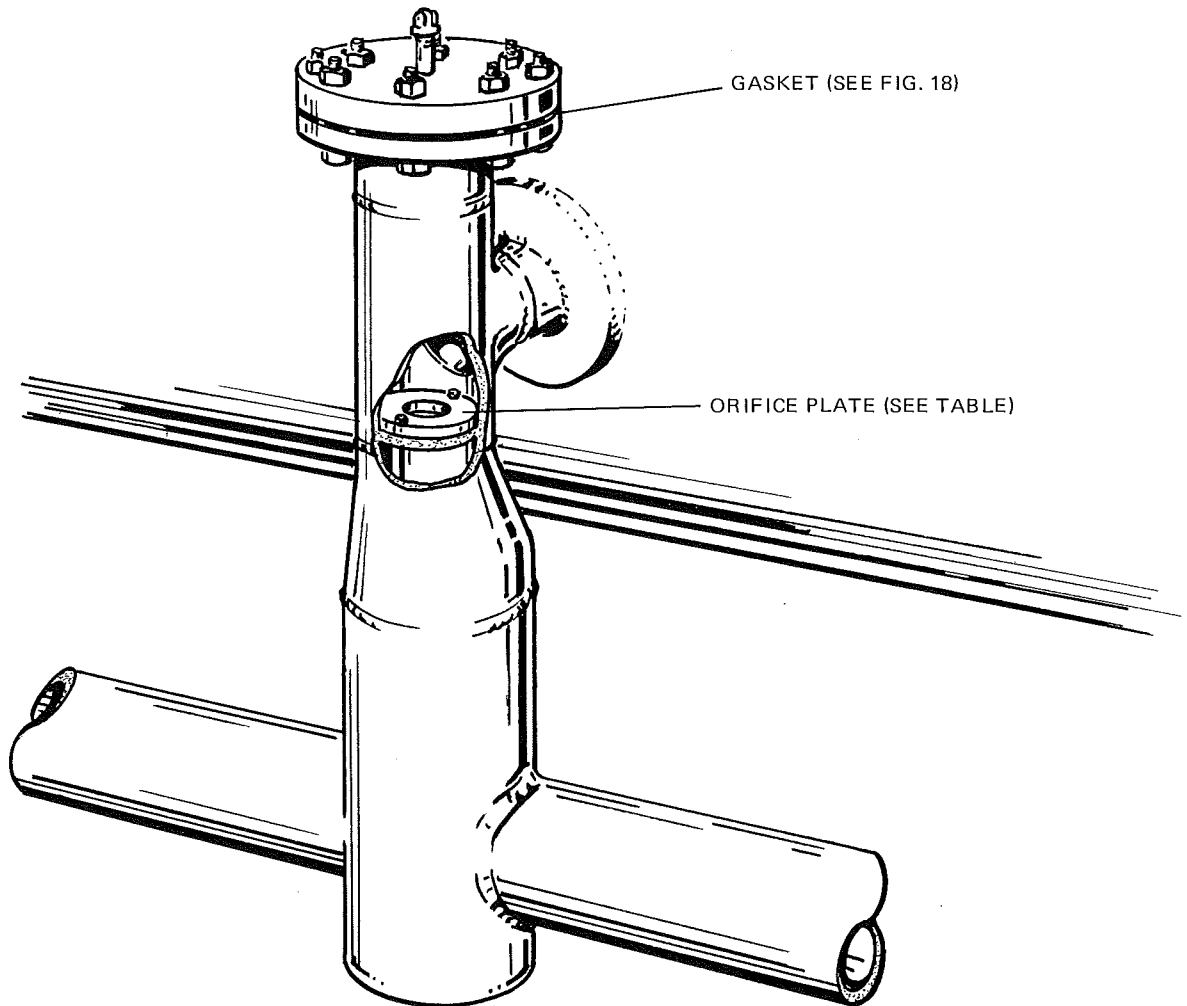


FIG. 19—FLOW CONTROLLER WITH ORIFICE PLATE

ORIFICE PLATE (STANDARD SELECTION)

Model HT	Code	Orifice Dia.	Part No.
670	A106	1.375	066-27702-001
720, 770	A108	1.500	066-27702-002
820, 820C, 820CM, 880, 880CM, 880M	A110	1.625	066-27702-003
920, 980, 1030	A112	1.750	066-27702-004

SHELL TUBES

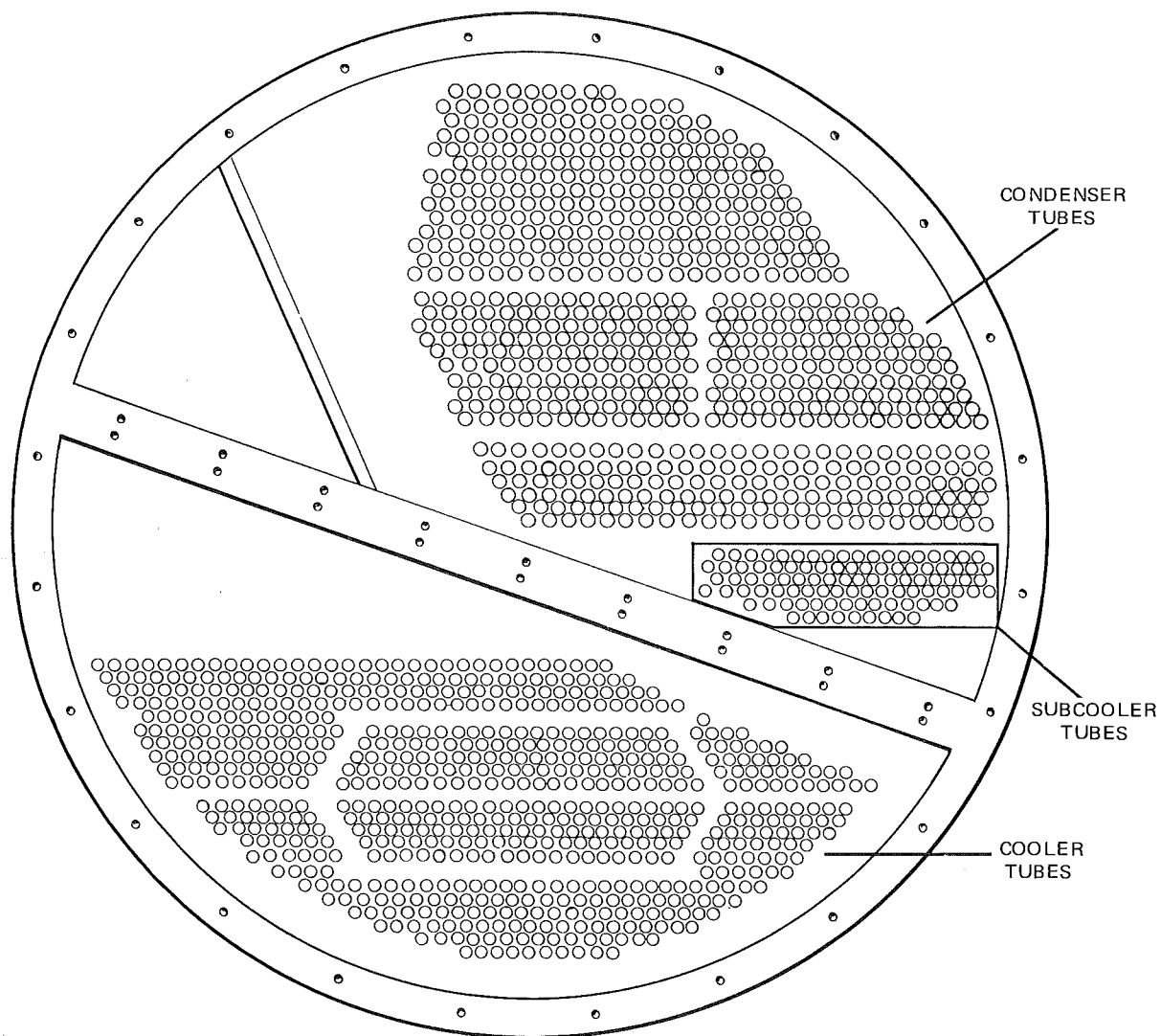
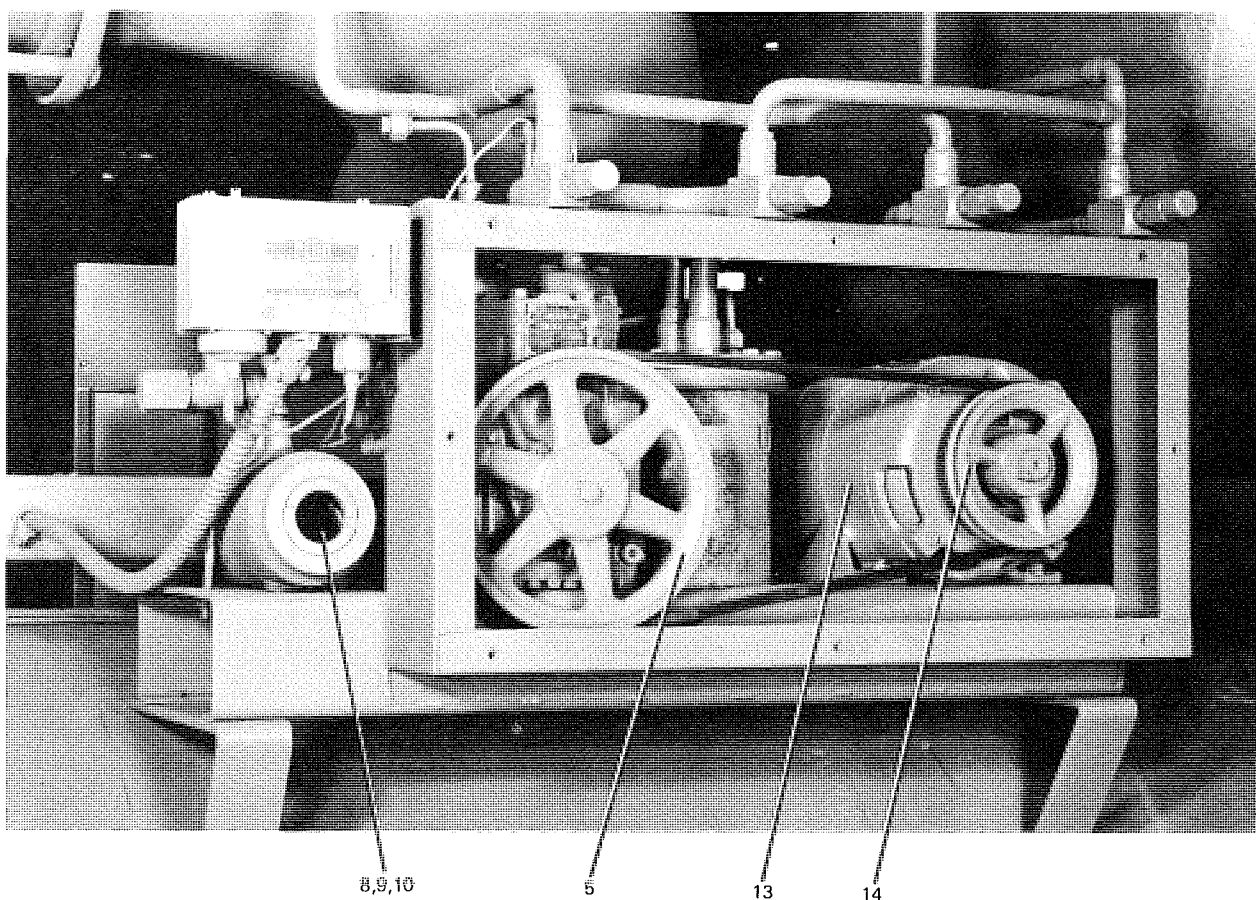


FIG. 20—COOLER AND CONDENSER TUBES – MOTOR END VIEW

Model	Condenser		Sub-Cooler		Cooler	
	Tube Part No.	Quan.	Tube Part No.	Quan.	Tube Part No.	Quan.
HT670	007-05737	487	007-05737	73	007-06133	482
HT720	007-05737	520	007-05737	73	007-06133	515
HT770	007-05737	552	007-05737	73	007-06133	552
HT820	007-05737	596	007-05737	87	007-06133	589
HT880	007-05737	636	007-05737	87	007-06133	756
HT920	007-05737	669	007-05737	87	007-06133	663
HT980	007-05737	709	007-05737	97	007-06133	703
HT1030	007-05737	743	007-05737	97	007-06133	736

REFRIGERANT TRANSFER UNIT



31256

FIG. 21— REFRIGERANT TRANSFER UNIT — FRONT VIEW (SEE PARTS LIST PAGE 22)

Voltage	Part No.
208-3-60	366-13641-002
230/460-3-60	366-13641-003
416-3-60	366-13641-004
575-3-60	366-13641-005
380-3-50	366-13641-006
400-3-50	366-13641-007
415-3-50	366-13641-008

REFRIGERANT TRANSFER UNIT

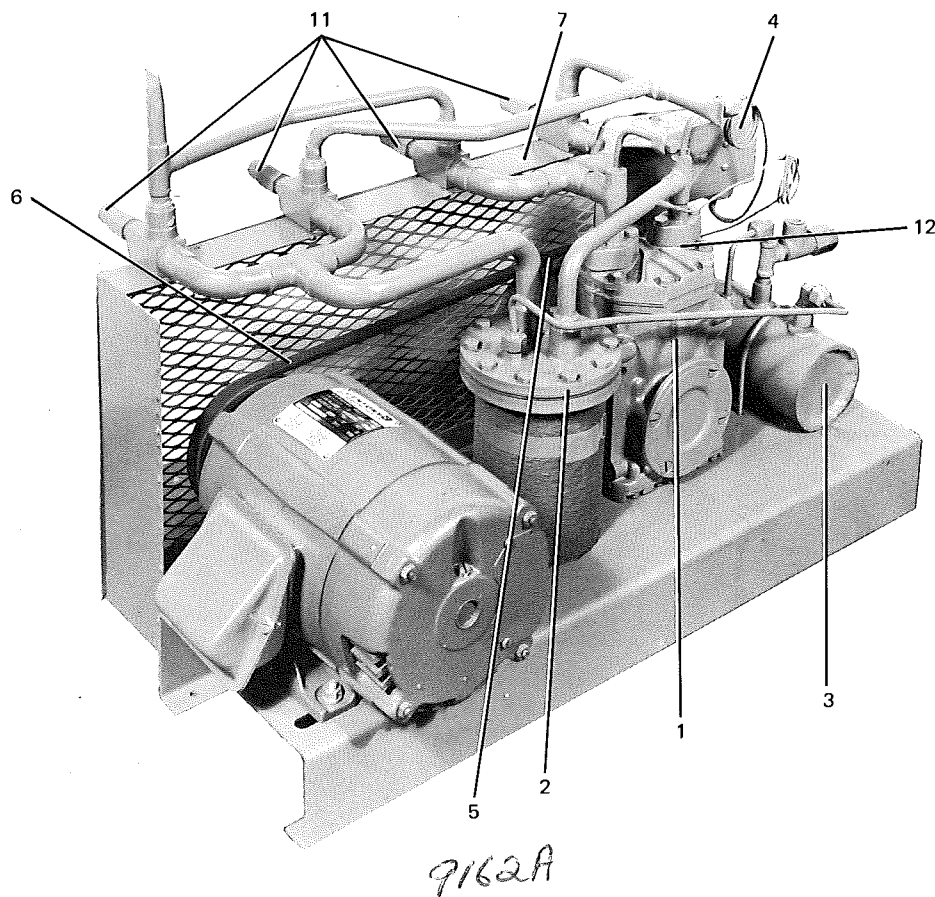


FIG. 22— REFRIGERANT TRANSFER UNIT — REAR VIEW

Item	Part Description	Quan.	Part Number
1	Compressor, Automotive	1	367-57514
2	Separator, Oil	1	026-14906
3	Reservoir, Oil	1	367-55906
4	Control, Dual; High & Low Press.	1	025-11839
5	Pulley, V-Belt; 7.75 O.D. X 7.50 P.D.	1	028-07800
6	Belt, "V"; Super Multiple, Single	1	028-04892
7	Guard, Belt	1	366-13728
8	Gasket, 1.921 OD X 1.421 ID X 1/16 Thk.	1	070-02545
9	Glass, Sight 1.862 Dia. X .360 Thk.	1	026-02634
10	Gasket, 1.921 OD X 1.421 ID X 1/32 Thk.	1	070-02399
11	Valve, Compr.	4	022-01669
12	Gasket	2	028-07153

VARIABLE COMPONENTS

Item	Description	Quan.	60 Cycle				50 Cycle		
			366-13641D002 208V 3PH	366-13641D003 230/400V 3PH	366-13641D004 416V 3PH	366-13641D005 575V 3PH	366-13641D006 380V 3PH	366-13641D007 400V 3PH	366-13641D008 415V 3PH
13	Motor, 3 H.P.	1	024-15200	024-15198	024-15216	024-15199	024-15201	024-15202	024-15203
14	Pulley, V-Belt	1	028-06888	028-06888	028-06888	028-06888	028-07889	028-07889	028-07889

REFRIGERANT TRANSFER UNIT

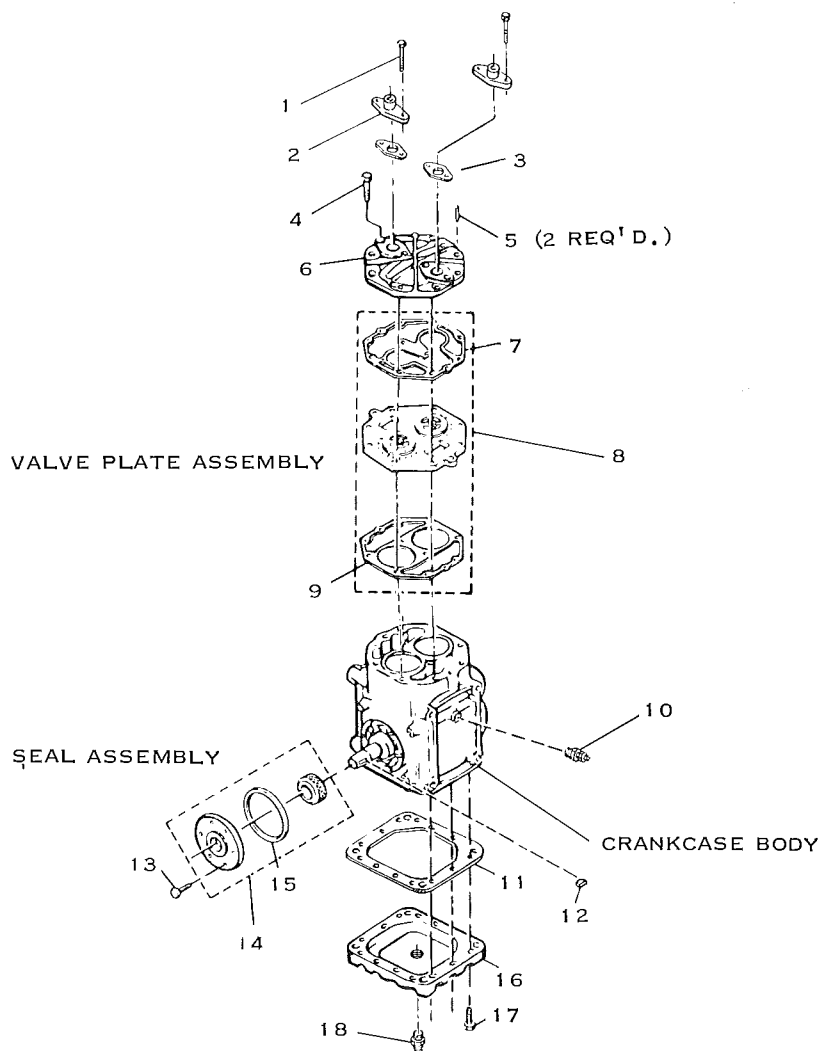


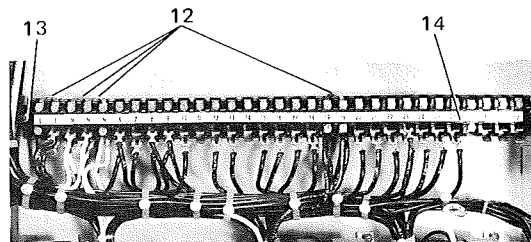
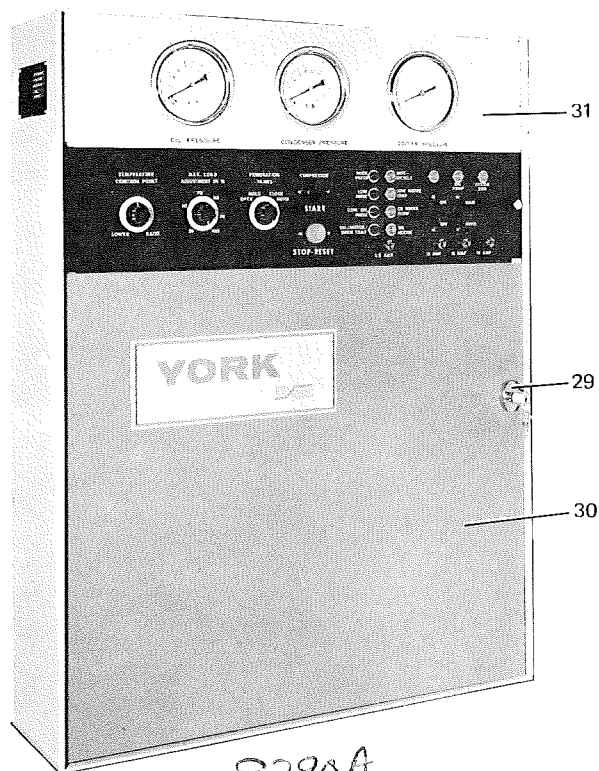
FIG. 23— REFRIGERANT TRANSFER UNIT COMPRESSOR PARTS

AUTOMOTIVE COMPRESSOR

Item	Part Description	Quan.	Part Number
1	Bolt, Hex Hd. 5/16—18 X 1-7/8	4	021-13134
2	Flange, Oval	2	022-07739
3	Gasket	2	028-07153
4	Bolt, Hex Hd. 5/16—18 X 1-3/8	8	021-12578
5	Dowel Pin, Plate Locating	2	029-09829
6	Head, Cylinder	1	488-16346
7	Gasket, Plate To Head	1	028-08155
8	Valve Plate Assembly, Complete	1	488-16664
9	Gasket, Plate To Body	1	028-07143
10	Connector, Adapter	1	367-44245
11	Gasket, Base Plate	1	028-07142
12	Key, Shaft	1	029-09888
13	Bolt, 1/4—20 X 0.70	6	021-12662
14	Seal Assembly	1	488-15751
15	Quad Ring	1	028-07542
16	Plate, Base	1	012-05277
17	Bolt, 1/4—20 X 0.70	14	021-12662
18	Connector, Half Union	1	023-00927

ELECTRONIC CONTROL CENTER

Earlier Production Models



DETAIL "A"
8292A

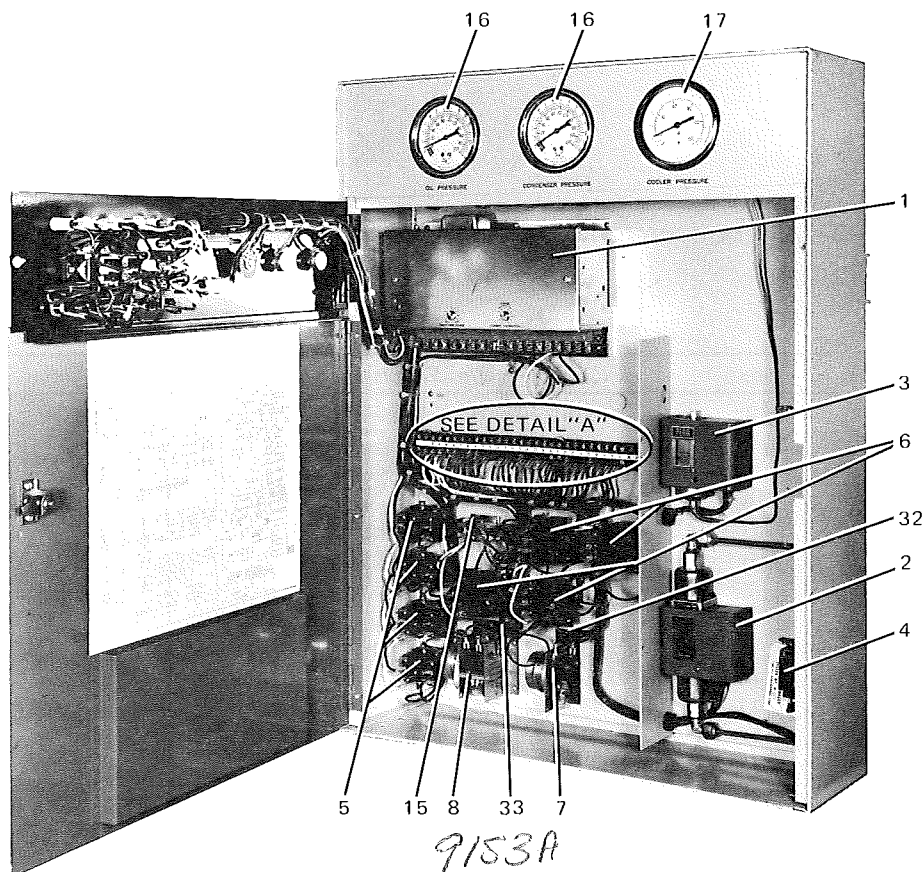
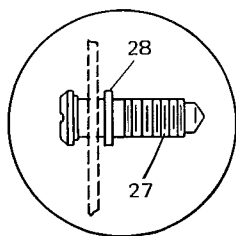
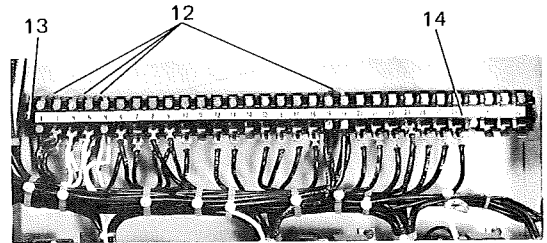
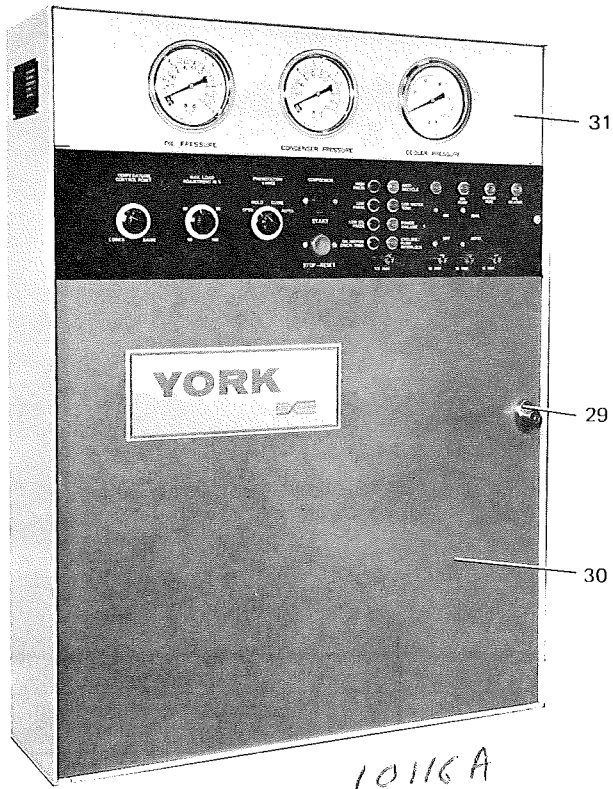


FIG. 24— ELECTRONIC CONTROL CENTER — Panel Part No.'s 367-83019-002, 367-83019-004

ELECTRONIC CONTROL CENTER

Latest Production Models



DETAIL "A"
8292A

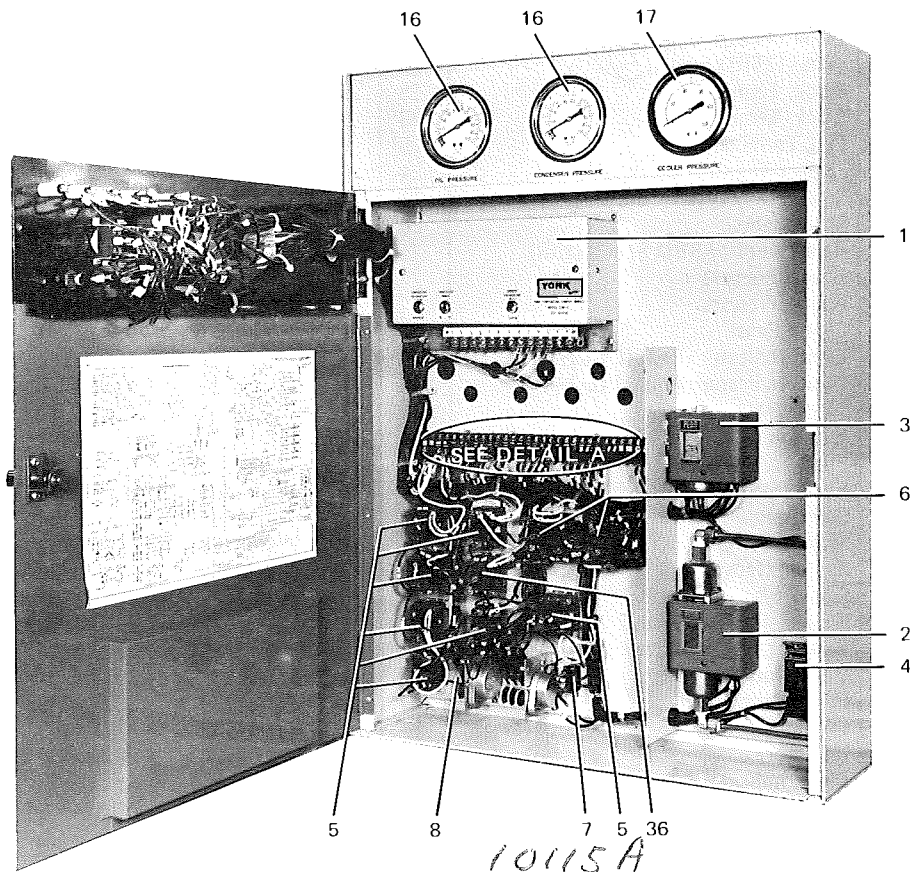
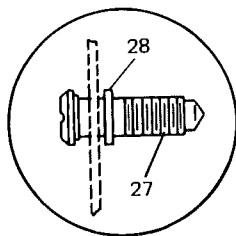
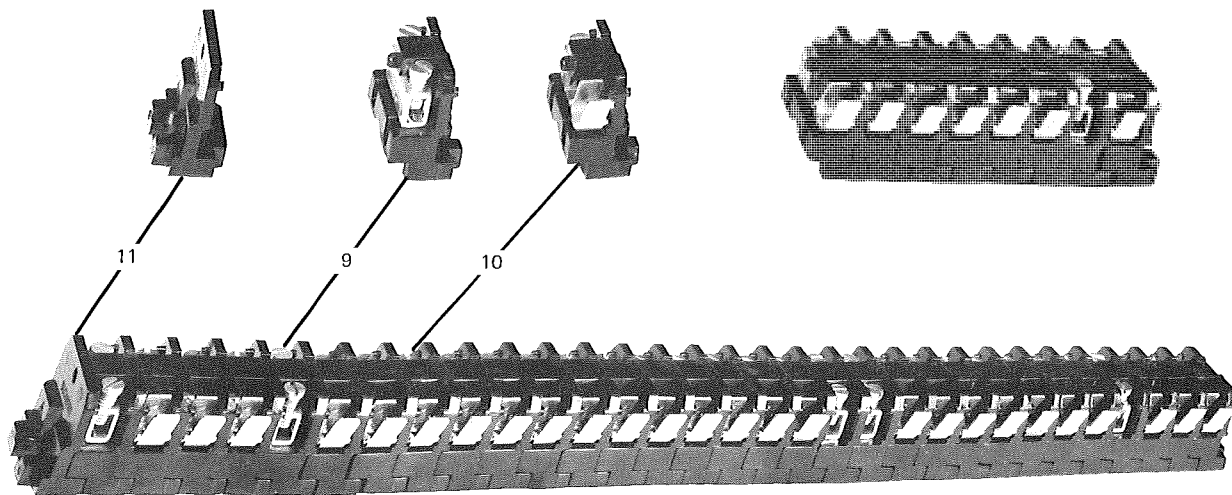


FIG. 24— ELECTRONIC CONTROL CENTER — Panel Part No.'s 366-39047-002, 366-39047-003

ELECTRONIC CONTROL CENTER



8293-8295

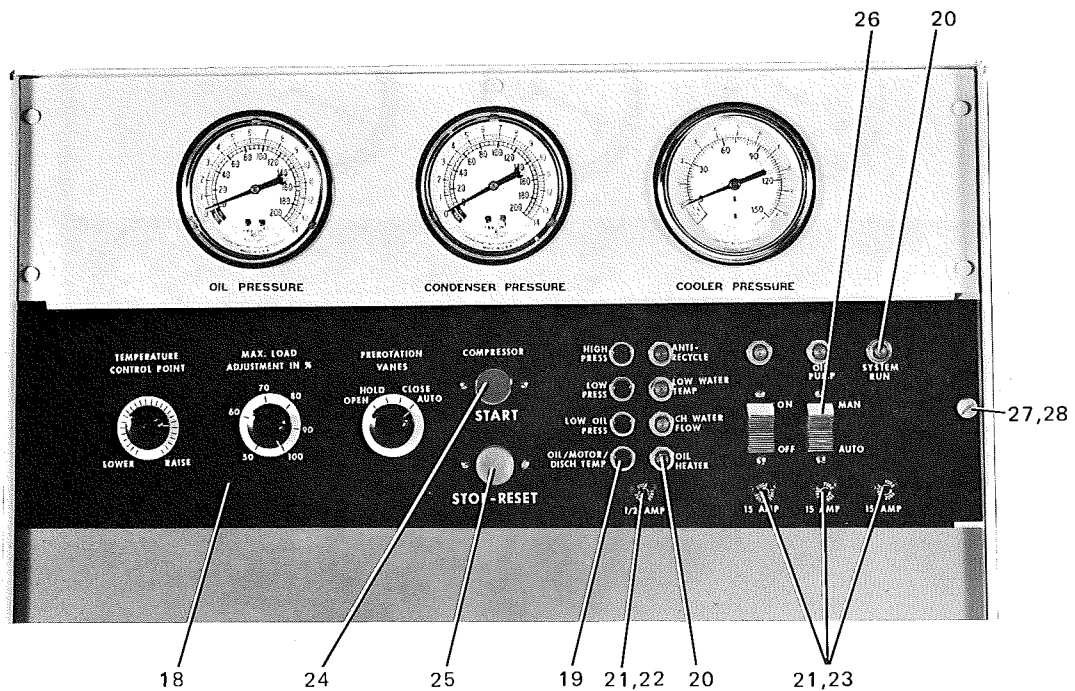
FIG. 25— TERMINAL STRIP PARTS

Item	Part Description	Fig.	Part Number			Part Number*		
			Quan.	Standard 367-83019-002	Low Temp. 367-83019-004	Quan.	Standard 366-39047-002	Low Temp. 366-39047-003
1	Control, Electronic Module	24	1	025-16883	025-16883	1	025-16883	025-16883
2	Control, Oil Pressure (OP)	24	1	025-14386	025-14386	1	025-14386	025-14386
3	Control, High Pressure	24	1	025-11166	025-11166	1	025-11166	025-11166
4	Control, Low Pressure (LP)	24	1	225-15929-001	225-15929-002	1	225-15929-001	225-15929-002
5	Relay, Control RBM91 (6R,7R,8R,9R)	24	4	024-11655	024-11655	7	024-11655	024-11655
6	Relay, Control RBM92 (3R,4R,5R,11R)	24	4	024-11784	024-11784	2	024-11784	024-11784
7	Timer (1TR) (30 MIN)	24	1	025-14371	025-14371	1	025-17171	025-17171
8	Timer (2TR) (4 MIN)	24	1	025-16010	025-16010	1	025-17172	025-17172
9	Block, Terminal	25	5	025-15544	025-15544	—	—	—
10	Block, Terminal	25	26	025-15865	025-15865	31	025-15865	025-15865
11	End, Terminal Block	25	1	025-13981	025-13981	1	025-13981	025-13981
12	Jumper Terminal Block	24	4	025-13984	025-13984	1	025-13984	025-13984
13	Screw, Tap, Type F. Rd. Hd.	24	4	021-09779	021-09779	4	021-09779	021-09779
14	Strip, Marker	24	1	025-15913	025-15913	1	025-17173	025-17173
15	Relay, Control RBM 97000 (10R)	24	1	024-14071	024-14071	—	—	—
16	Gauge, Pressure	24	2	026-14572-001	026-14572-001	2	026-14572-001	026-14572-001
17	Gauge, Pressure	24	1	026-14572-003	026-14572-003	1	026-14572-003	026-14572-003
18	Center Panel	26	1	367-82341	367-82341	1	366-39096	366-39096
19	Light, Indicator (Red) (L4-L7)	26	4	025-13551	025-13551	4	025-13551	025-13551
20	Light, Indicator (Amber) (L-1-L-3, L-8-L-11)	26	7	025-14025	025-14025	4	025-14025	025-14025
21	Fuseholder	26	4	025-13991	025-13991	4	025-13991	025-13991
22	Fuse, 1/2 AMP, 250V, CTG (4FU)	26	1	025-14383	025-14383	1	025-14383	025-14383
23	Fuse, 15 AMP, 250V, CTG (1FU-3FU)	26	3	025-14384	025-14384	3	025-14384	025-14384
24	Switch, Pushbutton (Black)	26	1	024-13761	024-13761	1	024-13761	024-13761
25	Switch, Pushbutton (Red)	26	1	024-13762	024-13762	1	024-13762	024-13762
26	Switch, Rocker	26	2	024-13760	024-13760	1	024-13760	024-13760
27	Screw, Slot Hd. No. 2	26	1	021-11631	021-11631	1	021-11631	021-11631
28	Washer, Retaining, No. 2	26	1	021-11632	021-11632	1	021-11632	021-11632
29	Fastener, Lock and Key	24	1	021-13025	021-13025	1	021-13025	021-13025
30	Door, Control Panel	24	1	367-82337	367-82337	1	367-82337	367-82337
31	Panel, Gauge	24	1	367-82339	367-82339	1	367-82339	367-82339
32	Insulator	24	1	067-84189	067-84189	1	067-84189	067-84189
33	Insulator	24	1	067-84190	067-84190	1	067-84190	067-84190
34	Light, Indicator (White)	26	—	—	—	4	025-15708	025-15708
35	Switch, Rocker	26	—	—	—	1	024-16590	024-16590
36	Relay Control RBM91	24	—	—	—	1	024-12357	024-12357

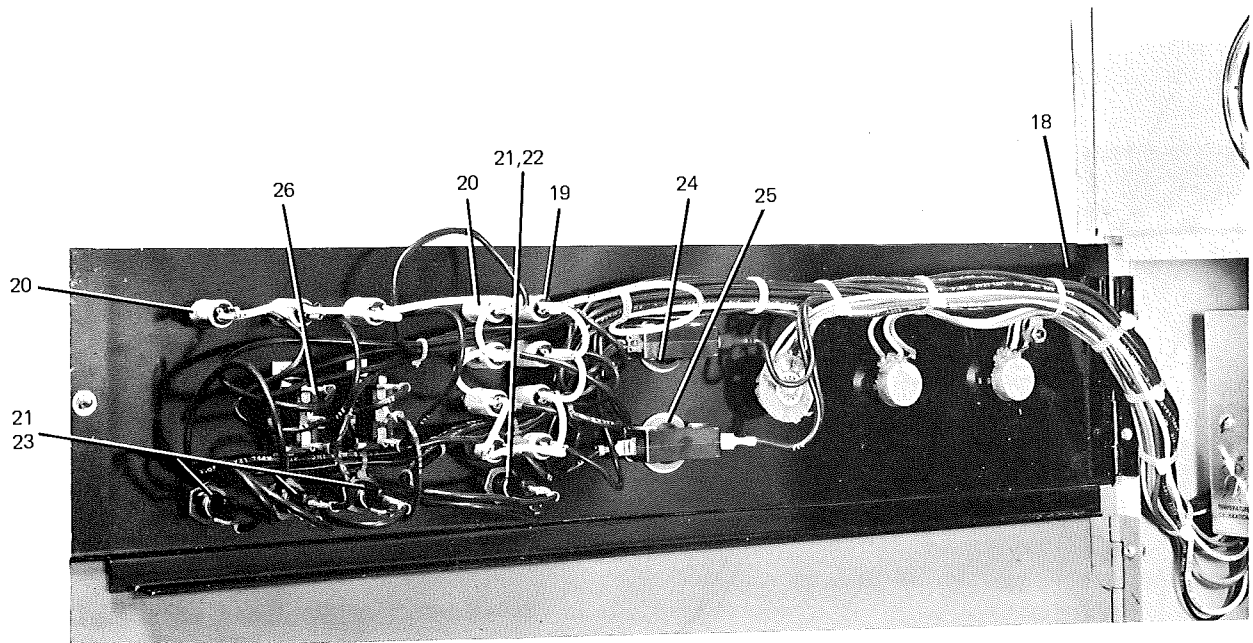
*Latest production models.

ELECTRONIC CONTROL CENTER

Earlier Production Models



9152A



8291A

FIG. 26— ELECTRONIC CONTROL PANEL — PARTS LOCATION — Panel Part No.'s 367-83019-002, 367-83019-004

ELECTRONIC CONTROL CENTER

Latest Production Models

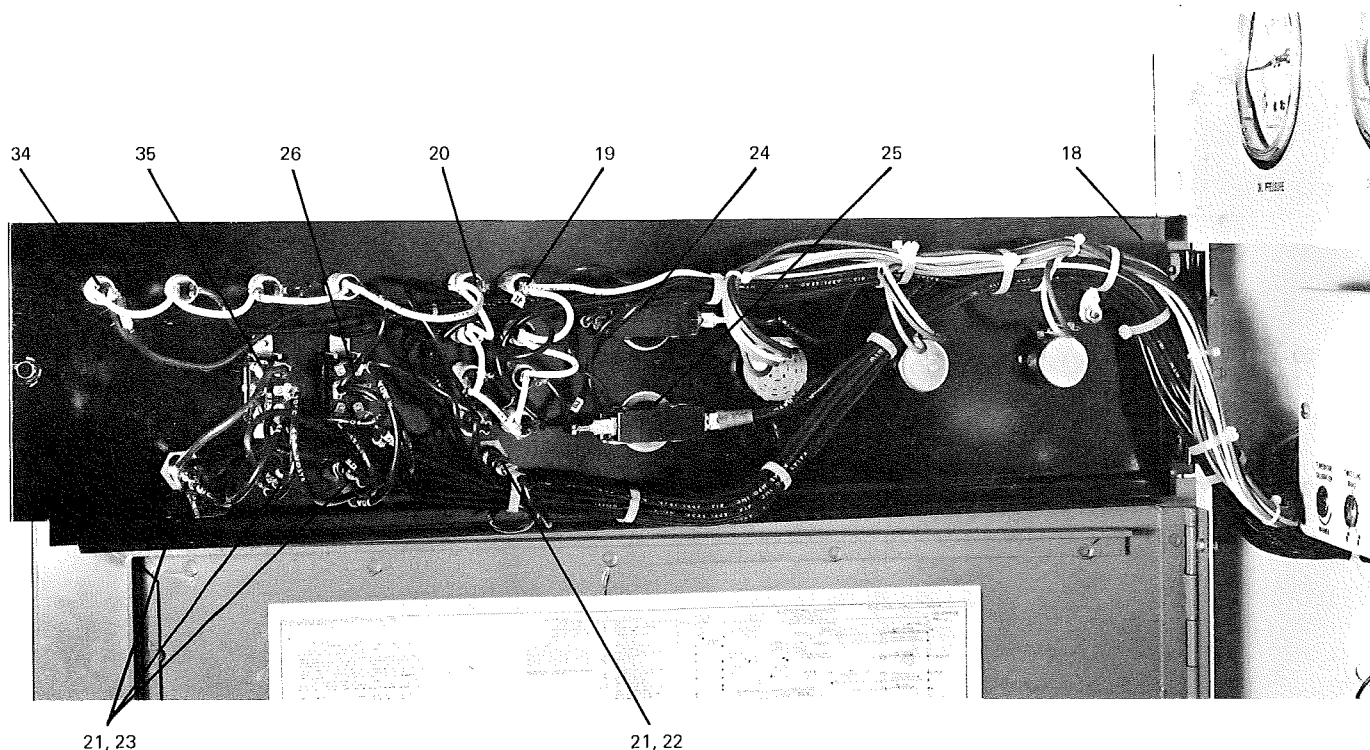
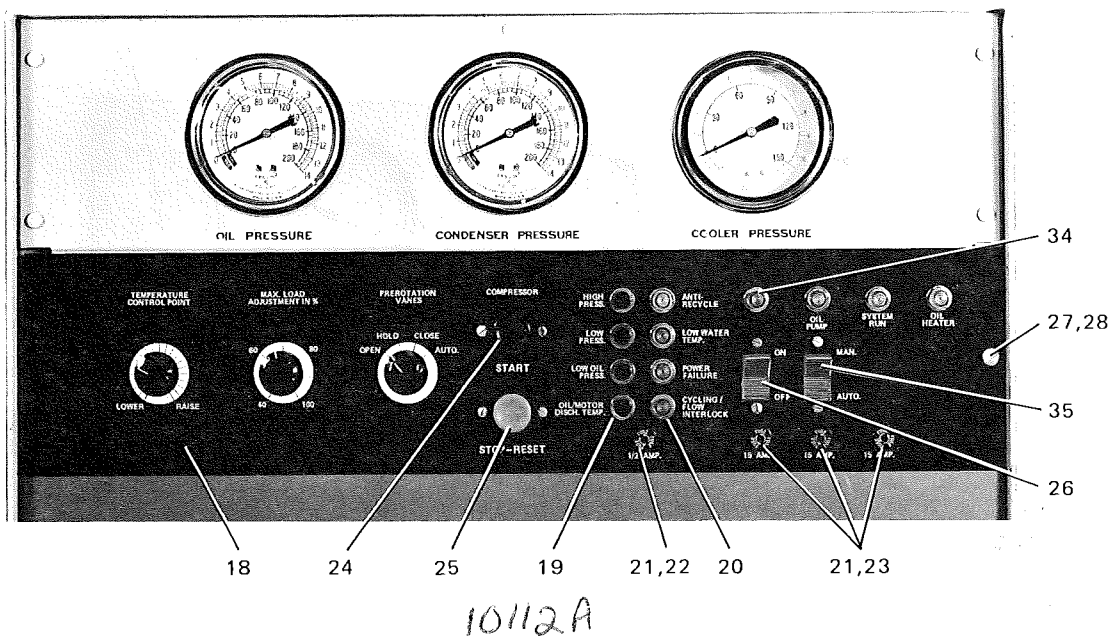


FIG. 26— ELECTRONIC CONTROL PANEL — PARTS LOCATION — Panel Part No.'s 366-39047-002, 366-39047-003

*Put up
hi-life arrows
on reprint*

PNEUMATIC CONTROL CENTER

Earlier Production Models

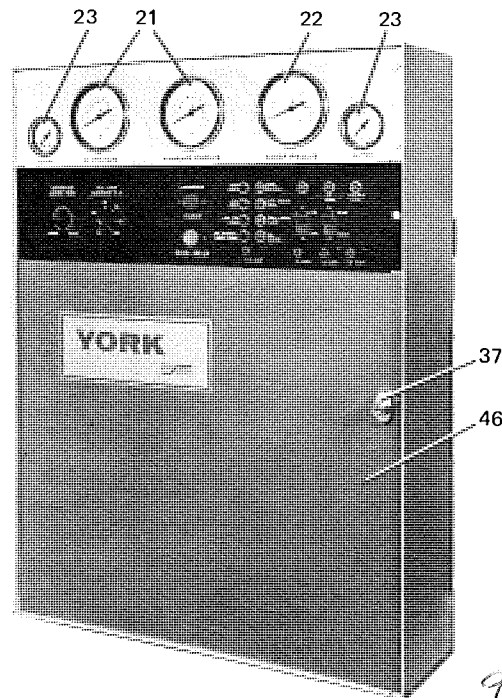


FIG. 27—PNEUMATIC CONTROL CENTER — DOOR CLOSED — Panel Part No.'s 366-17061-002, 366-17061-004

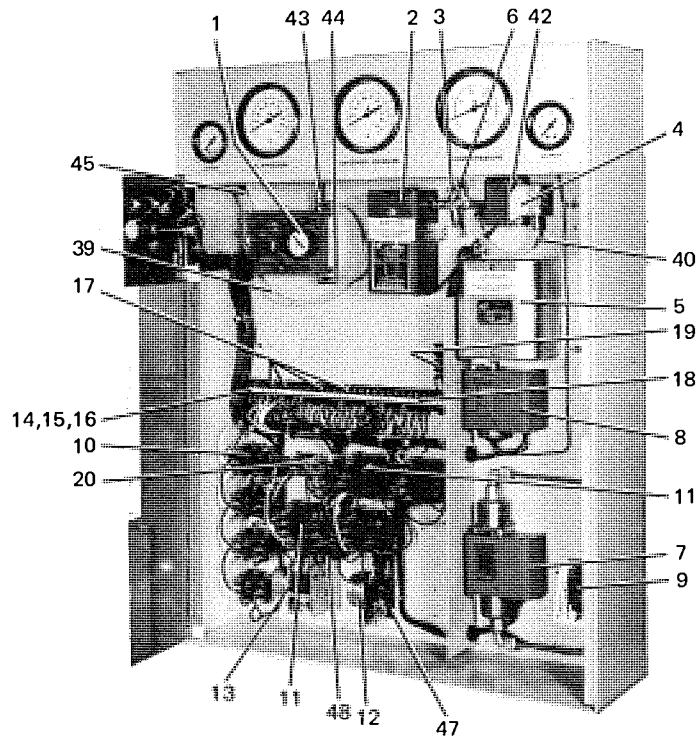


FIG. 28— PNEUMATIC CONTROL CENTER — DOOR OPEN — Panel Part No.'s 366-17061-002, 366-17061-004

PNEUMATIC CONTROL CENTER

Latest Production Models

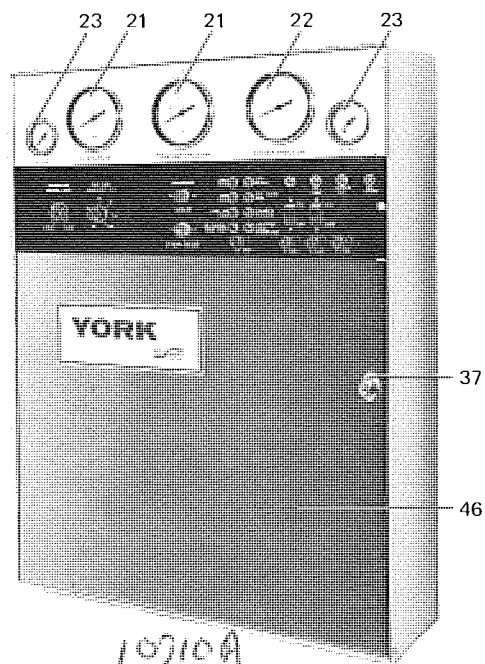


FIG. 27— PNEUMATIC CONTROL CENTER — DOOR CLOSED — Panel Part No.'s 366-42090-002, 366-42090-003

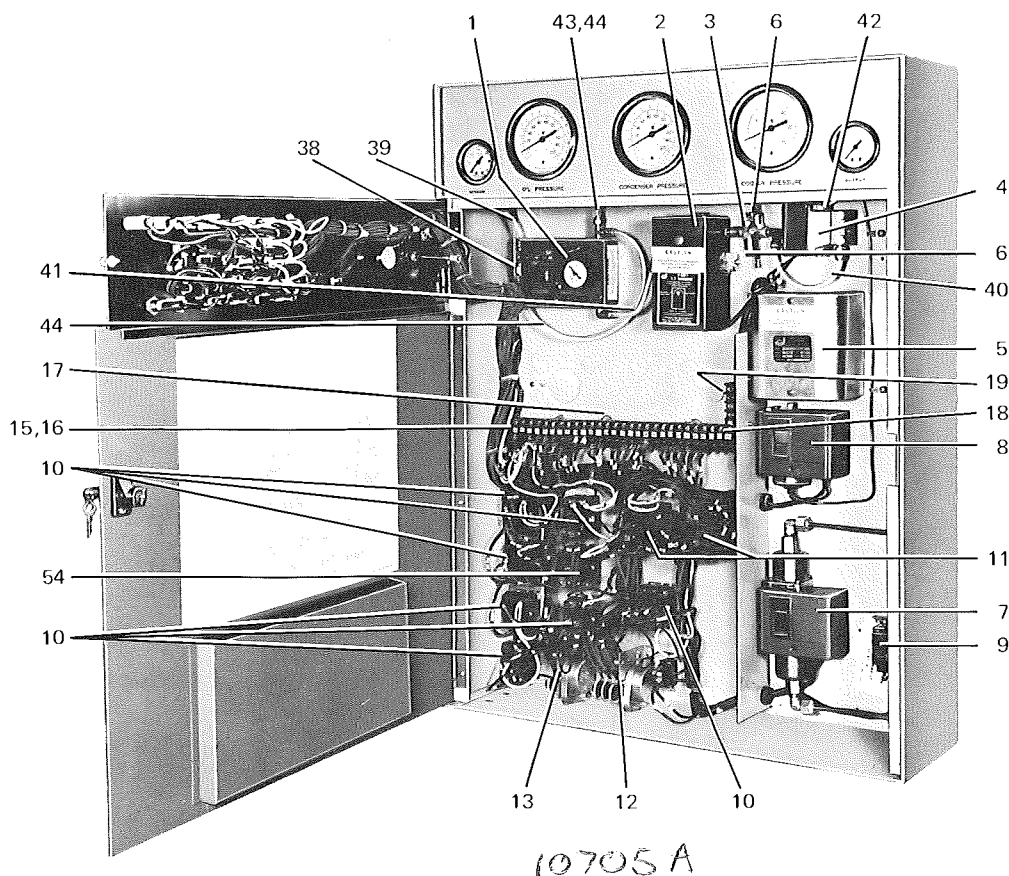


FIG. 28— PNEUMATIC CONTROL CENTER — DOOR OPEN — Panel Part No.'s. 366-42090-002, 366-42090-003

PNEUMATIC CONTROL CENTER

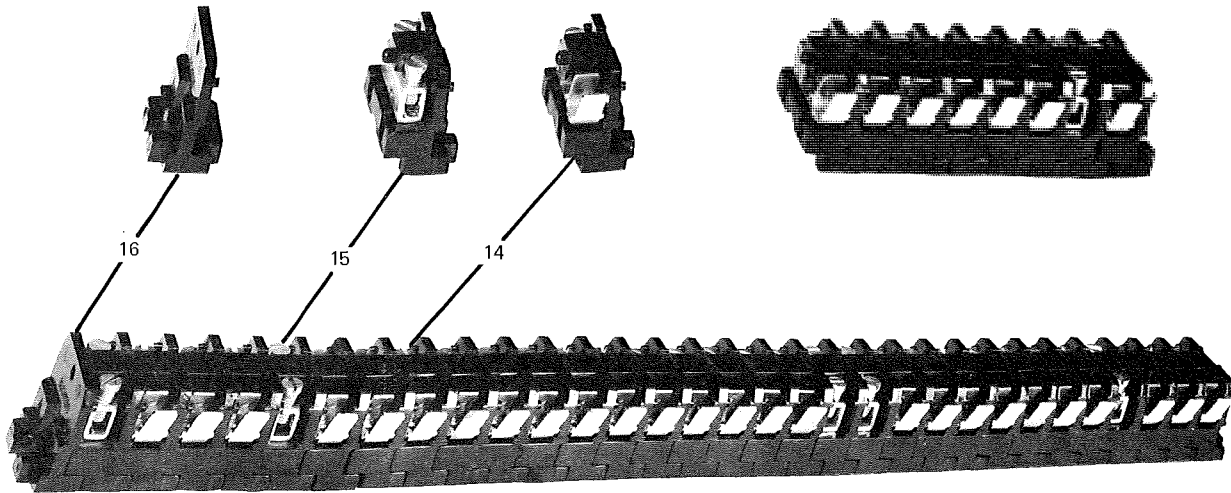
Item	Part Description	Fig.	Part No.					
			Qty.	Standard 366-17061-002	Low Temp. 366-17061-004	Qty.	Standard** 366-42090-002	Low Temp.** 366-42090-003
1	Controller, Temperature (TC)	28	1	026-16196	026-16196	1	026-16196	026-16196
2	Current Limit Relay (Transducer) (CLR)	28	1	324-15335-001	324-15335-001	1	324-15335-001	324-15335-001
3	Restrictor, Variable Adjustable	28	1	026-15426	026-15426	1	026-15426	026-15426
4	Valve, Prv Air Solenoid (1 SOL)	28	1	325-11931-001	325-11931-001	1	325-11931-001	325-11931-001
5	Controller, Load Limiting (LLC)	28	1	025-15892	025-15892	1	025-17362	025-17362
6	Plug, Pipe 1/8 NPT	28	2	023-01182	023-01182	2	023-01182	023-01182
7	Control, Oil Pressure	28	1	025-14386	025-14386	1	025-14386	025-14386
8	Control, High Pressure	28	1	025-11166	025-11166	1	025-11166	025-11166
9	Control, Low Pressure	28	1	225-15929-001	225-15929-002	1	225-15929-001	225-15929-002
10	Relay, Control, RBM91	28	4	024-11655	024-11655	7	024-11655	024-11655
11	Relay, Control, RBM92	28	4	024-11784	024-11784	2	024-11784	024-11784
12	Timer	28	1	025-14371	025-14371	1	025-17171	025-17171
13	Timer, Repeat Cycle	28	1	025-16010	025-16010	1	025-17172	025-17172
14	Block, Terminal (Screw Terminals)	28,29	5	025-15544	025-15544	—	—	—
15	Block, Terminal (Push-On Terminal)	28,29	30	025-15865	025-15865	36	025-15865	025-15865
16	Block, Terminal, End	28,29	2	025-13981	025-13981	2	025-13981	025-13981
17	Jumper, Terminal Block	28	5	025-13984	025-13984	1	025-13984	025-13984
18	Strip, Marker	28	1	025-15913	025-15913	1	025-17173	025-17173
19	Strip, Marker	28	1	025-16022	025-16022	1	025-17363	025-17363
20	Relay, Control, RBB97000	28	1	024-14071	024-14071	—	—	—
21	Gauge, Pressure	27,31	2	026-14572-001	026-14572-001	2	026-14572-001	026-14572-001
22	Gauge, Pressure	27,31	1	026-14572-003	026-14572-003	1	026-14572-003	026-14572-003
23	Gauge, Pressure (Air)	27,31	2	026-16195	026-16195	2	026-16195	026-16195
24	Panel, Center	30	1	066-17063	066-17063	1	366-42110	366-42110
25	Light, Indicator (Red) (L-4—L-7)	30,32	4	025-13551	025-13551	4	025-13551	025-13551
26	Light, Indicator (Amber) (L-1—3, L-9—11)	30,32	7	025-14025	025-14025	4	025-14025	025-14025
27	Fuseholder	30,32	4	025-13991	025-13991	4	025-13991	025-13991
28	Fuse, 1/2 Amp, 250V, CTG (4FU)	30,32	1	025-14383	025-14383	1	025-14383	025-14383
29	Fuse, 15 Amp, 250V, CTG (1FU-3FU)	30,32	3	025-14384	025-14384	3	025-14384	025-14384
30	Switch, Pushbutton, Black	30,32	1	024-13761	024-13761	1	024-13761	024-13761
31	Switch, Pushbutton, Red	30,32	1	024-13762	024-13762	1	024-13762	024-13762
32	Switch, Rocker	30,32	2	024-13760	024-13760	1	024-13760	024-13760
33	Resistor, Variable	32	1	025-15890	025-15890	1	025-15890	025-15890
34	Screw, Slot Hd., No. 2	30	1	021-11631	021-11631	1	021-11631	021-11631
35	Washer, Retaining No. 2	30	1	021-11632	021-11632	1	021-11632	021-11632
36	Knob	30	2	025-15889	025-15889	2	025-15889	025-15889
37	Fastner, Lock and Key	27	1	021-13025	021-13025	1	021-13025	021-13025
38	Restrictor, Pneumatic	28	1	026-16208	026-16208	1	026-16208	026-16208
39	*Tube, Plastic 1/4 O.D. x .040 x 6 Lg.	28	1	067-32310	067-32310	1	067-32310	067-32310
40	*Tube, Plastic 1/4 O.D. x .040 x 6-1/2 Lg.	28	1	066-20823	066-20823	1	066-20823	066-20823
41	*Tube, Plastic 1/4 O.D. x .040 x 8-1/2 Lg.	28	1	066-17027	066-17027	1	066-17027	066-17027
42	*Tube, Plastic 1/4 O.D. x .040 x 10 Lg.	28	2	066-17028	066-17028	2	066-17028	066-17028
43	*Tube, Plastic 1/4 O.D. x .040 x 14 Lg.	28	1	066-17029	066-17029	1	066-17029	066-17029
44	*Tube, Plastic 1/4 O.D. x .040 x 18 Lg.	28	1	066-17030	066-17030	1	066-17030	066-17030
45	*Tube, Plastic 1/4 O.D. x .040 x 20-1/2 Lg.	28	1	066-17031	066-17031	1	066-17031	066-17031
46	Door Control Panel	27	1	367-82337	367-82337	1	367-82337	367-82337
47	Insulator, Electrical	28	1	067-84189	067-84189	1	067-84189	067-84189
48	Insulator, Electrical	28	1	067-84190	067-84190	1	067-84190	067-84190
49	Shaft, Flex. and Panel Bearing	32	1	025-15891	025-15891	1	025-15891	025-15891
50	Pressure Regulator	33	1	022-03533	022-03533	1	022-03533	022-03533
51	Gauge	33	1	026-10301	026-10301	1	026-10301	026-10301
52	Light Indicator (White)	30	—	—	—	4	025-15708	025-15708
53	Switch, Rocker	30	—	—	—	1	024-16590	024-16590
54	Relay Control RBM91	28	—	—	—	1	024-12357	024-12357

*Use plastic polyethylene material 1/4 in. O.D. x .040 in. wall, natural, 500 ft. spool, Part No. 028-04589.

**Latest production models.

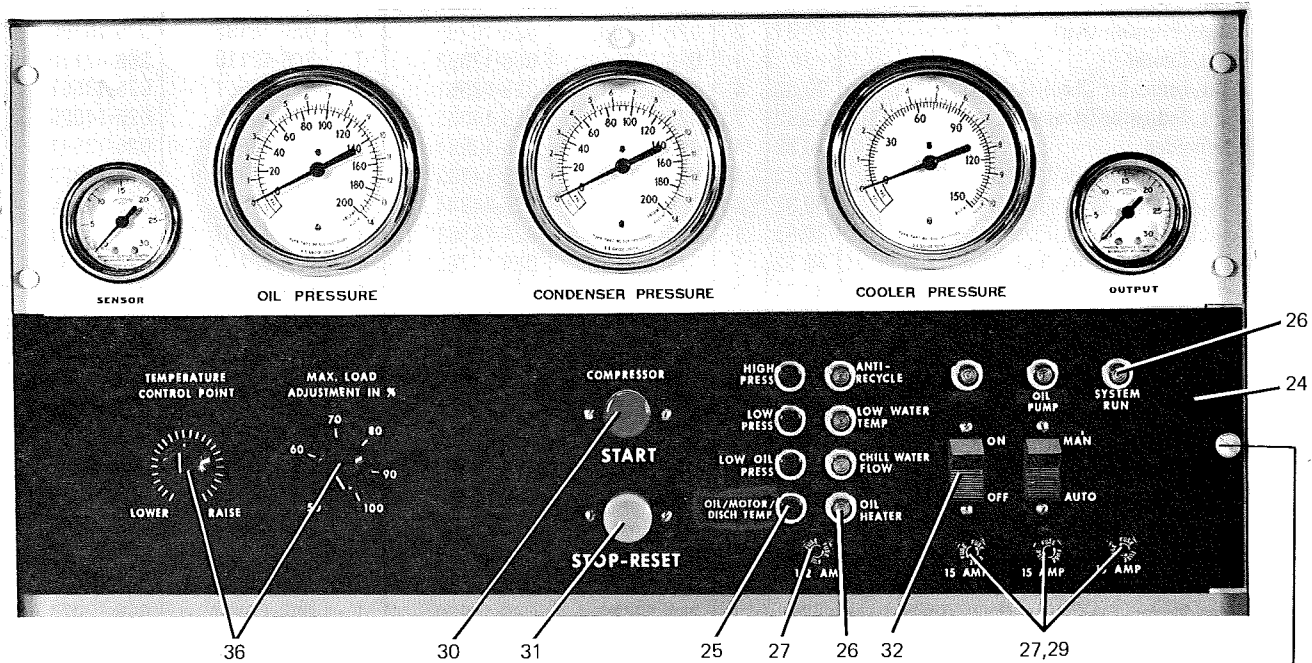
PNEUMATIC CONTROL CENTER

Earlier Production Models



8293-8295

FIG. 29— TERMINAL STRIP



9156A

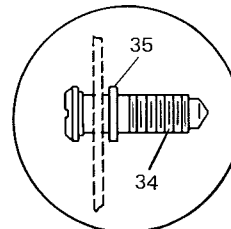


FIG. 30— PNEUMATIC CONTROL CENTER — FRONT VIEW — Panel Part No.'s 366-17061-002, 366-17061-004

PNEUMATIC CONTROL CENTER

Latest Production Models

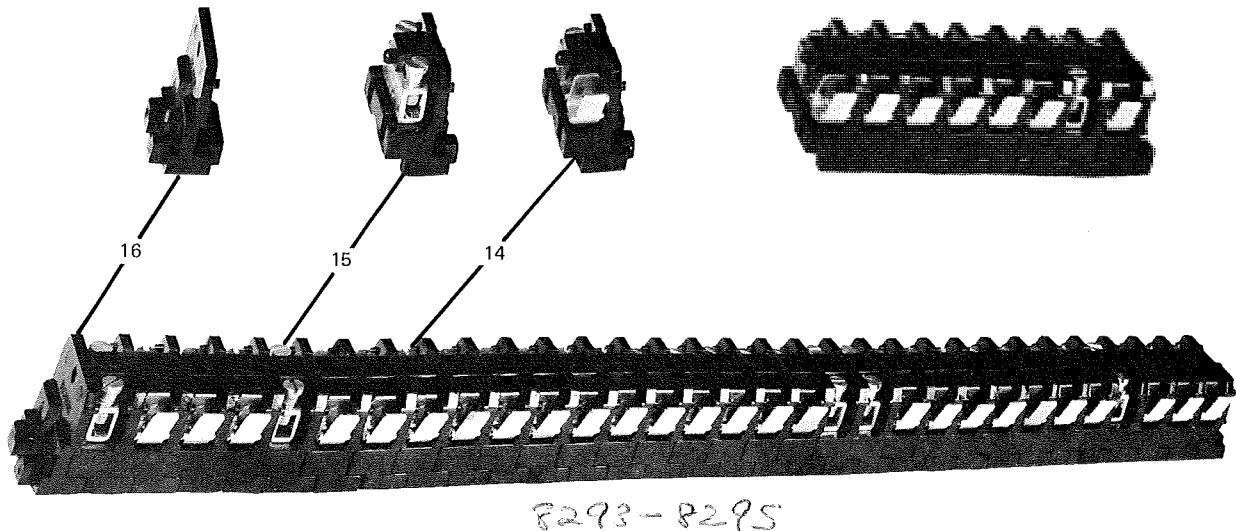


FIG. 29— TERMINAL STRIP — Panel Part No.'s 366-42090-002, 366-42090-003

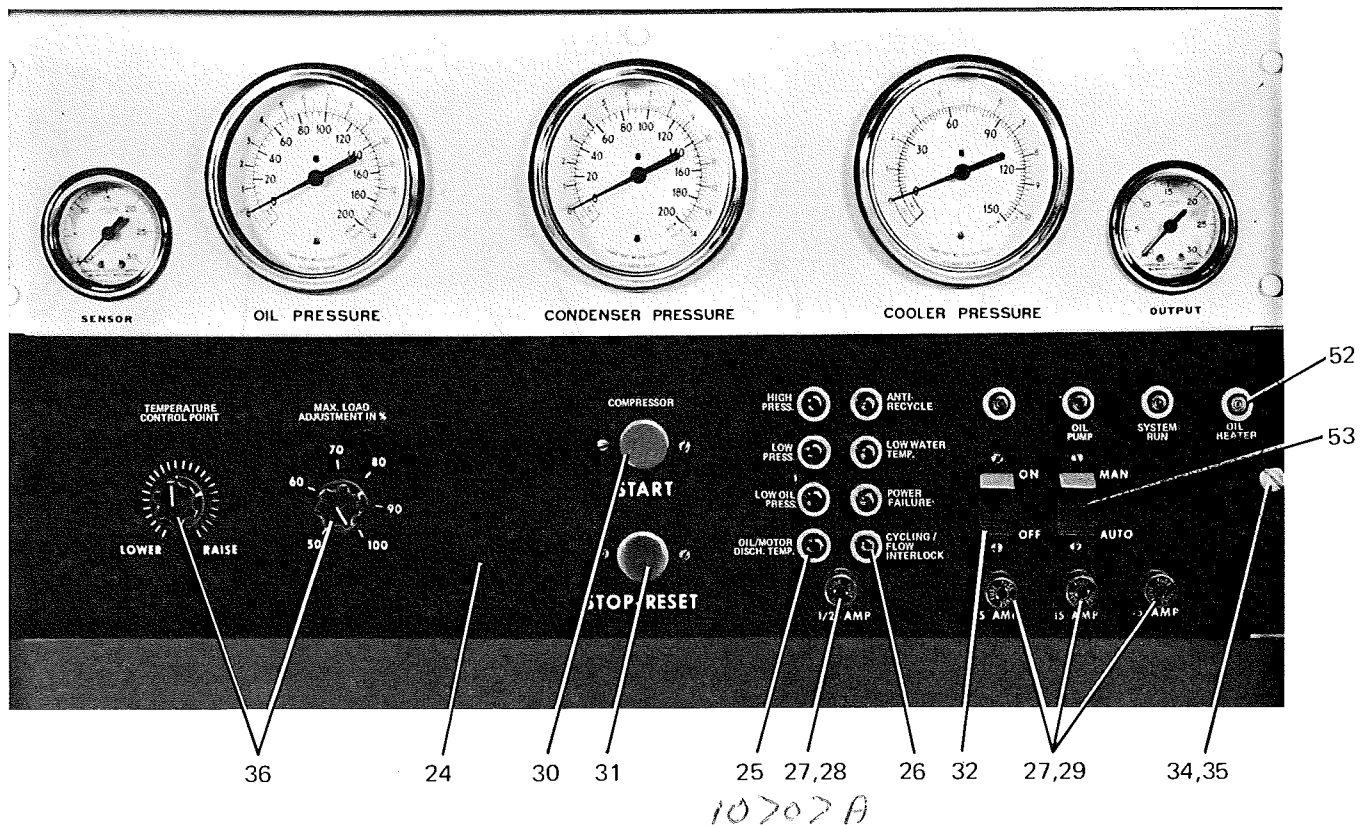
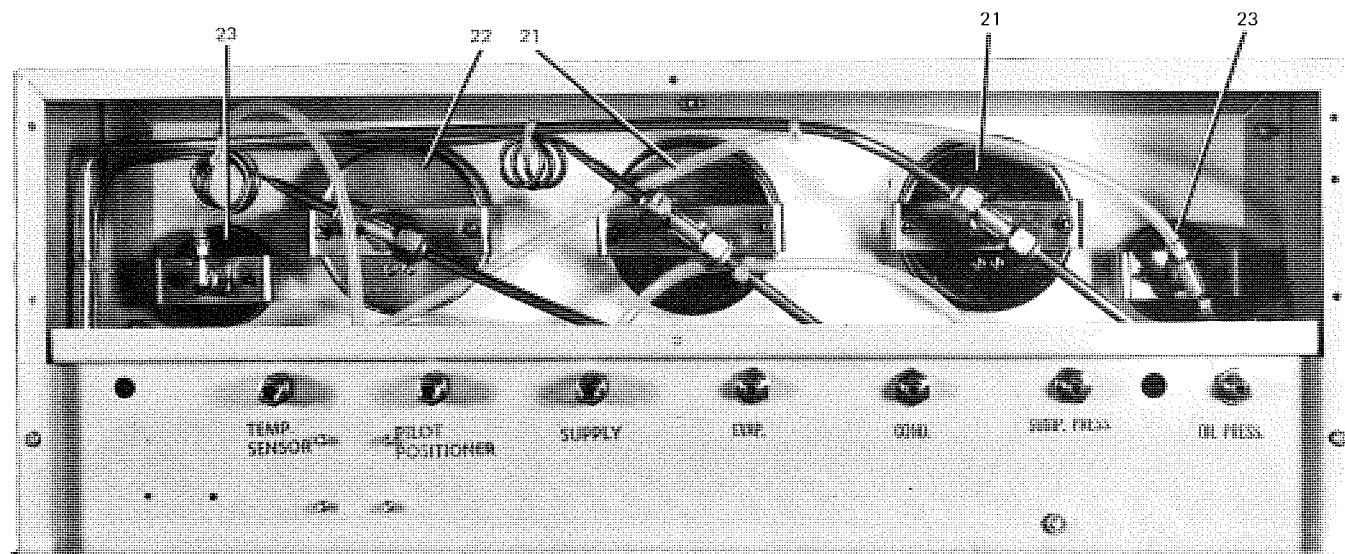


FIG. 30— PNEUMATIC CONTROL CENTER — FRONT VIEW — Panel Part No.'s 366-42090-002, 366-42090-003

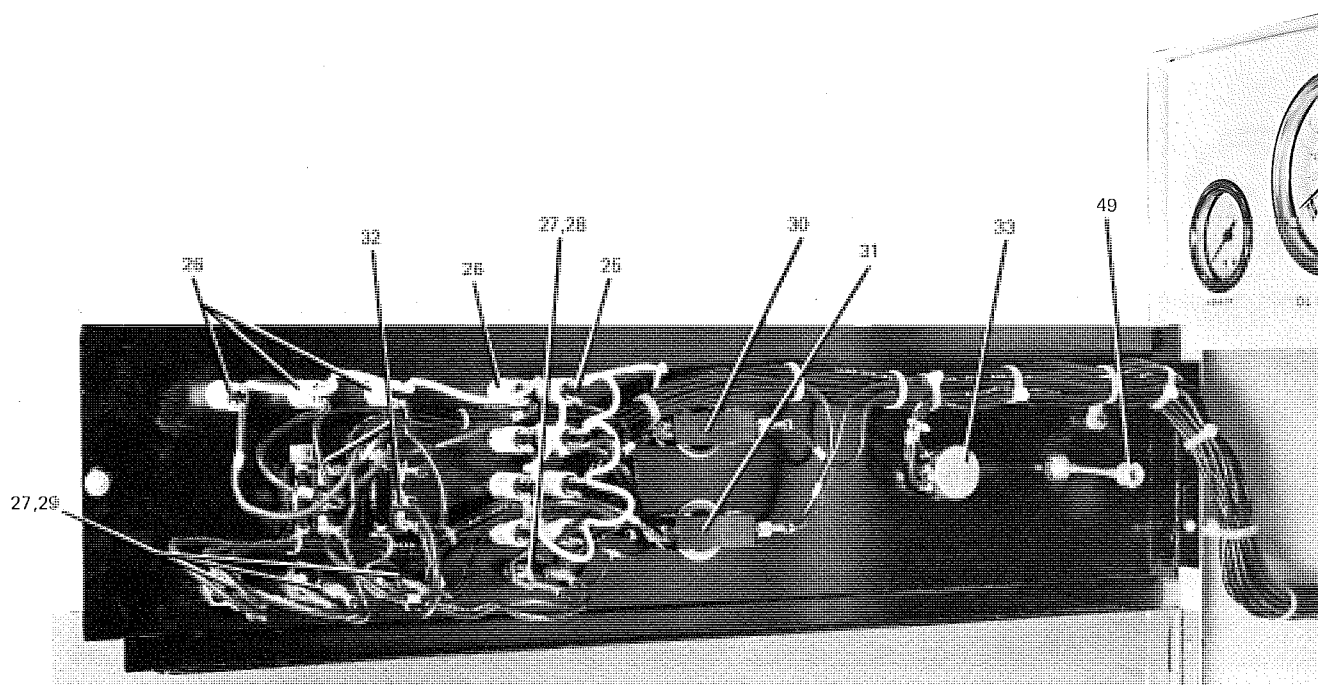
PNEUMATIC CONTROL CENTER

Earlier Production Models



8063A

FIG. 31— REAR VIEW CONTROL CENTER SHOWING GAUGE HOOK-UP — Panel Part No.'s 366-17061-002, 366-17061-004

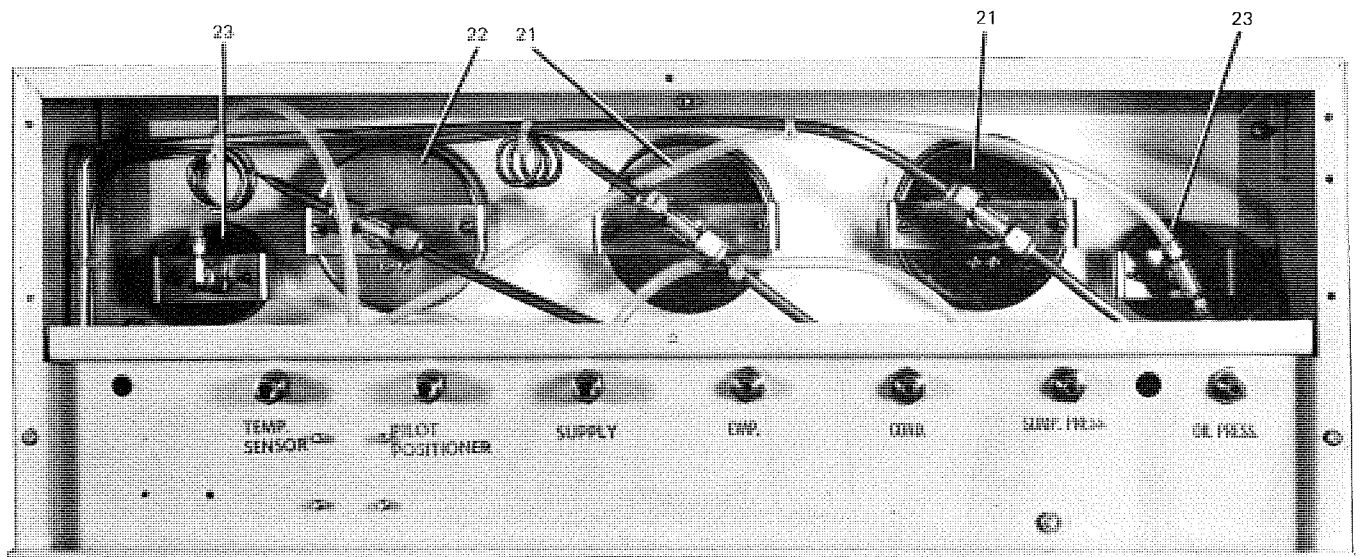


8061A

FIG. 32— CENTER CONTROL PANEL — REAR VIEW — Panel Part No.'s 366-17061-002, 366-17061-004

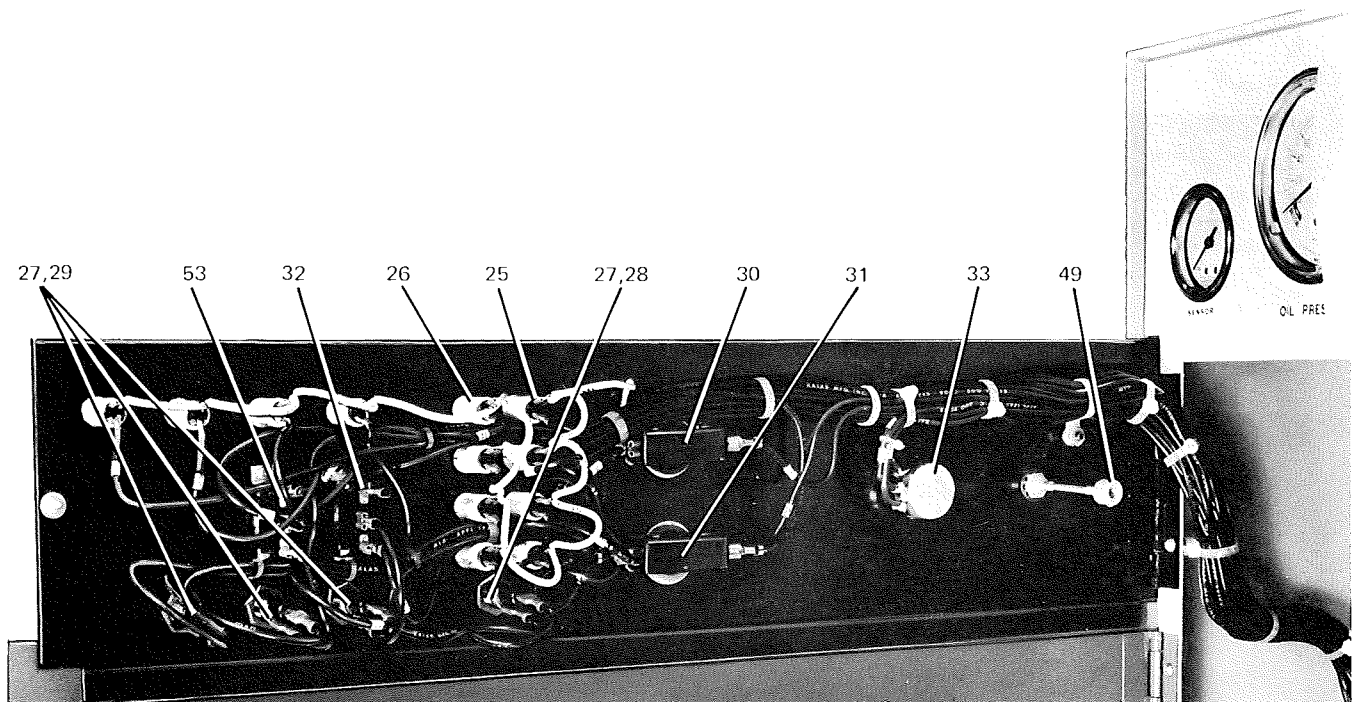
PNEUMATIC CONTROL CENTER

Latest Production Models



8063A

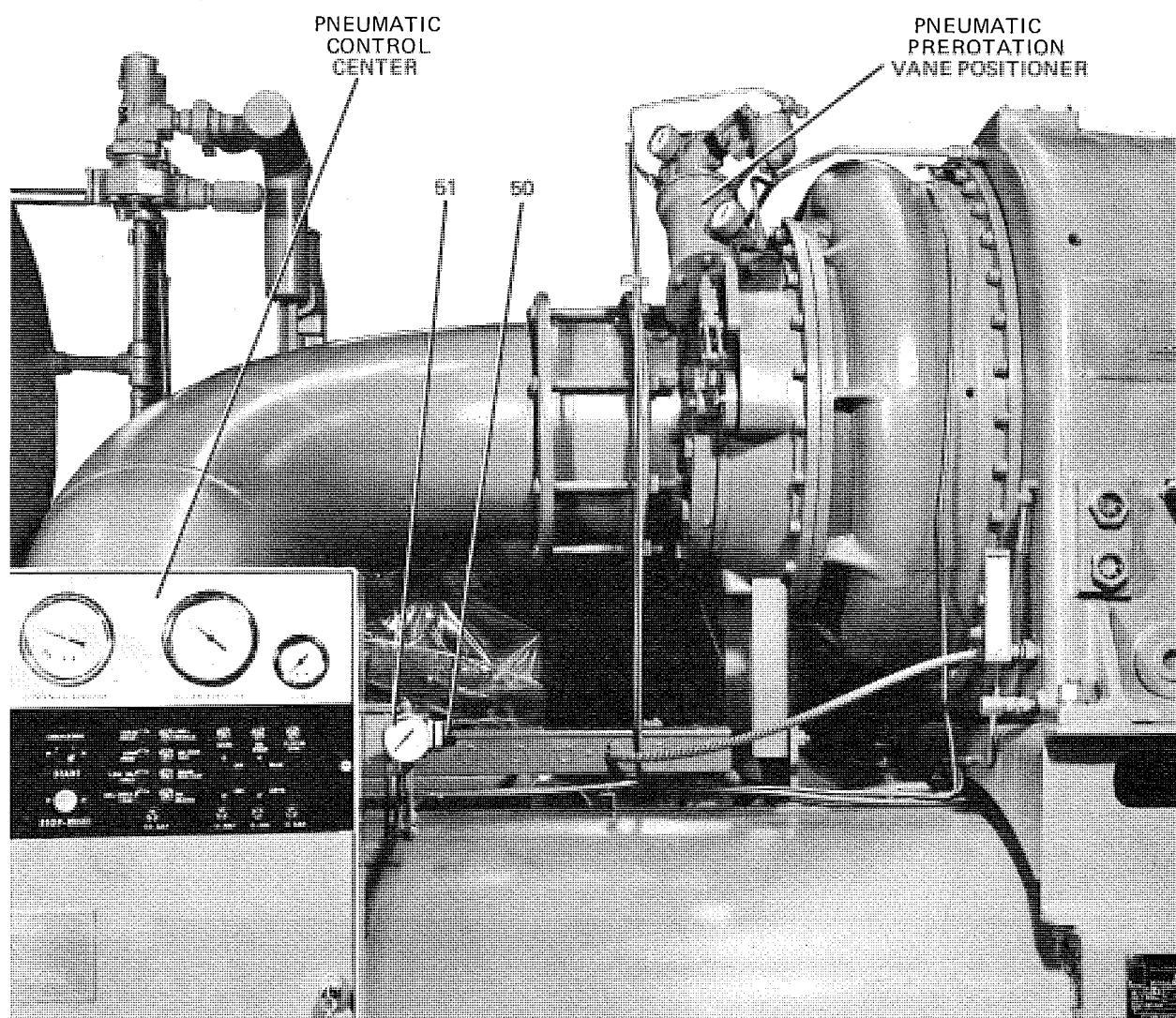
FIG. 31— REAR VIEW CONTROL CENTER SHOWING GAUGE HOOK-UP — Panel Part No.'s 366-42090-002, 366-42090-003



10708A

FIG. 32— CENTER CONTROL PANEL — REAR VIEW — Panel Part No.'s 366-42090-002, 366-42090-003

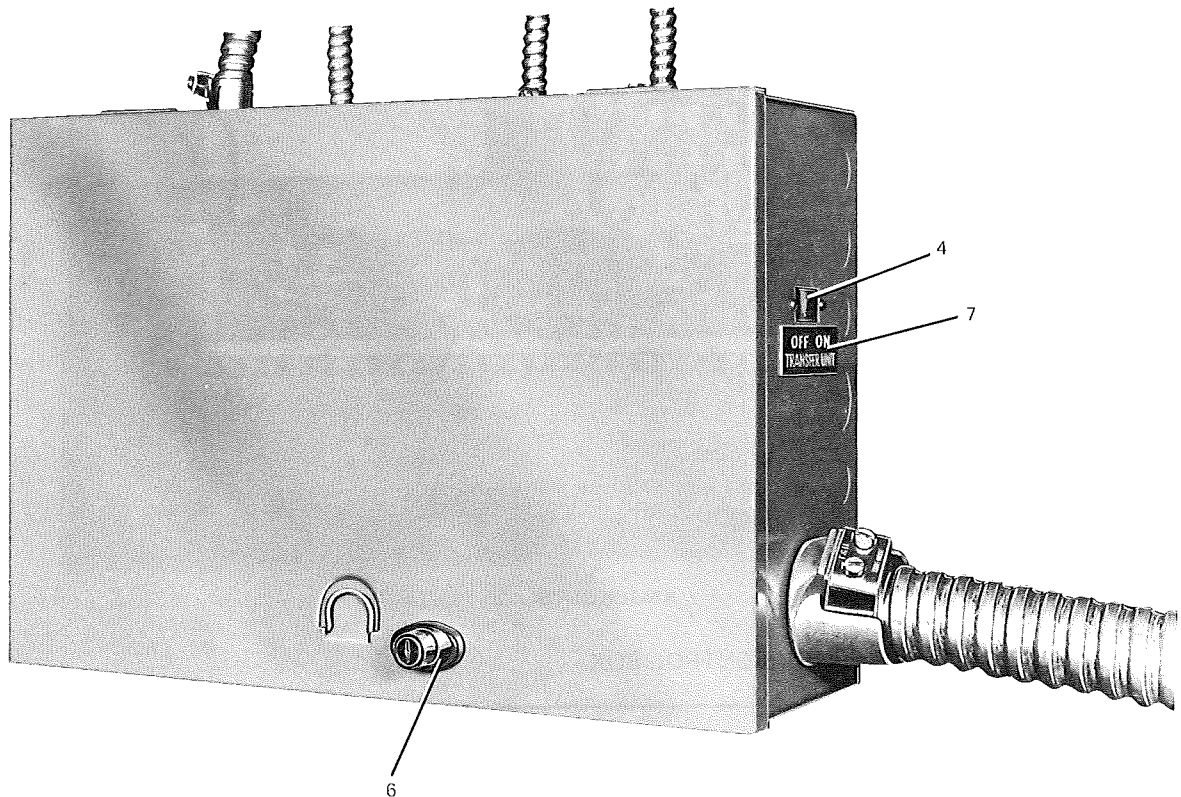
PNEUMATIC CONTROL CENTER



9454A

FIG. 33— PNEUMATIC CONTROL CENTER — MOUNTED ON UNIT

AUXILIARY CONTROL BOX



9723A

FIG. 34— AUXILIARY CONTROL BOX — PARTS LOCATION

Item	Part Description	H.V. Part No.	L.V. Part No.	Quan.	Fig.
1	Contactor (12R)	024-14728-005	024-14728-005	1	35,36
2	Contactor (13R)	024-14728-005	024-14728-005	1	35,36
3	High Motor Temp Module (HMT)	—	025-15702-001	1	35
4	Switch	024-13760	024-13760	1	34
5	Terminal Block	025-15865	025-15865	1	35,36
6	Pawl Fastener	021-13025	021-13025	1	34
7	Nameplate	029-11140	029-11140	1	34

AUXILIARY CONTROL BOX

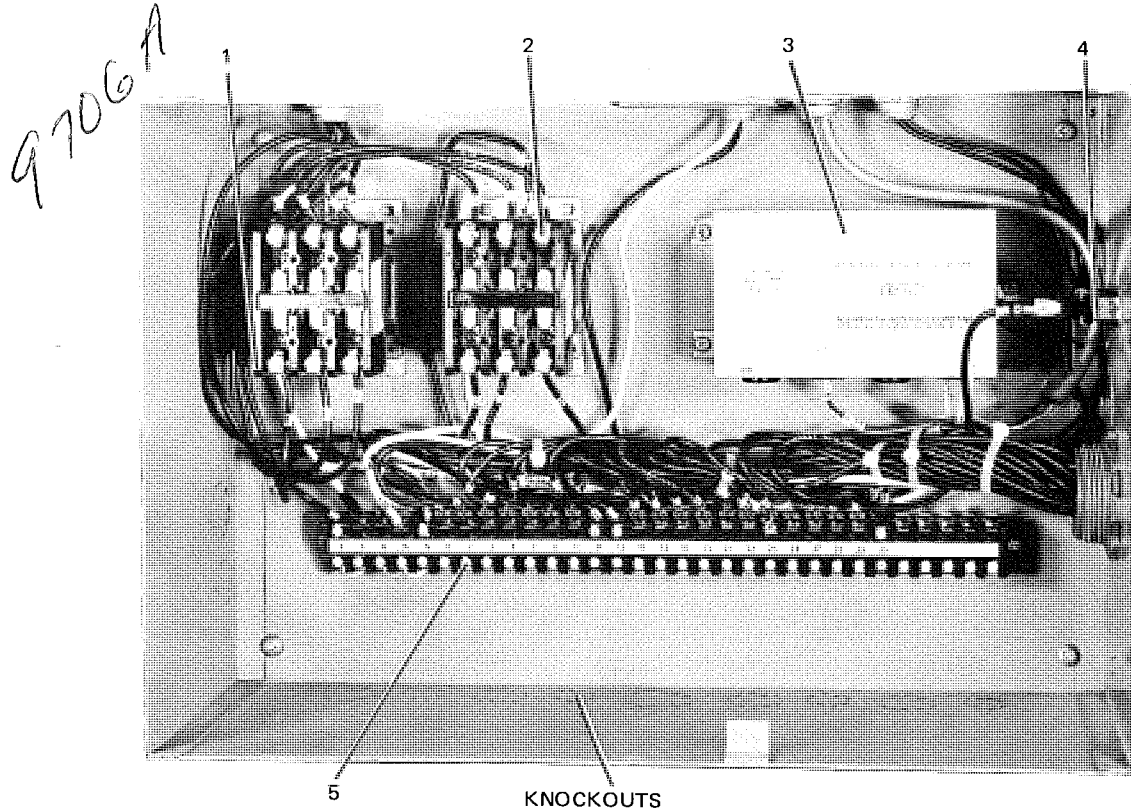


FIG. 35— LOW VOLTAGE AUXILIARY CONTROL BOX

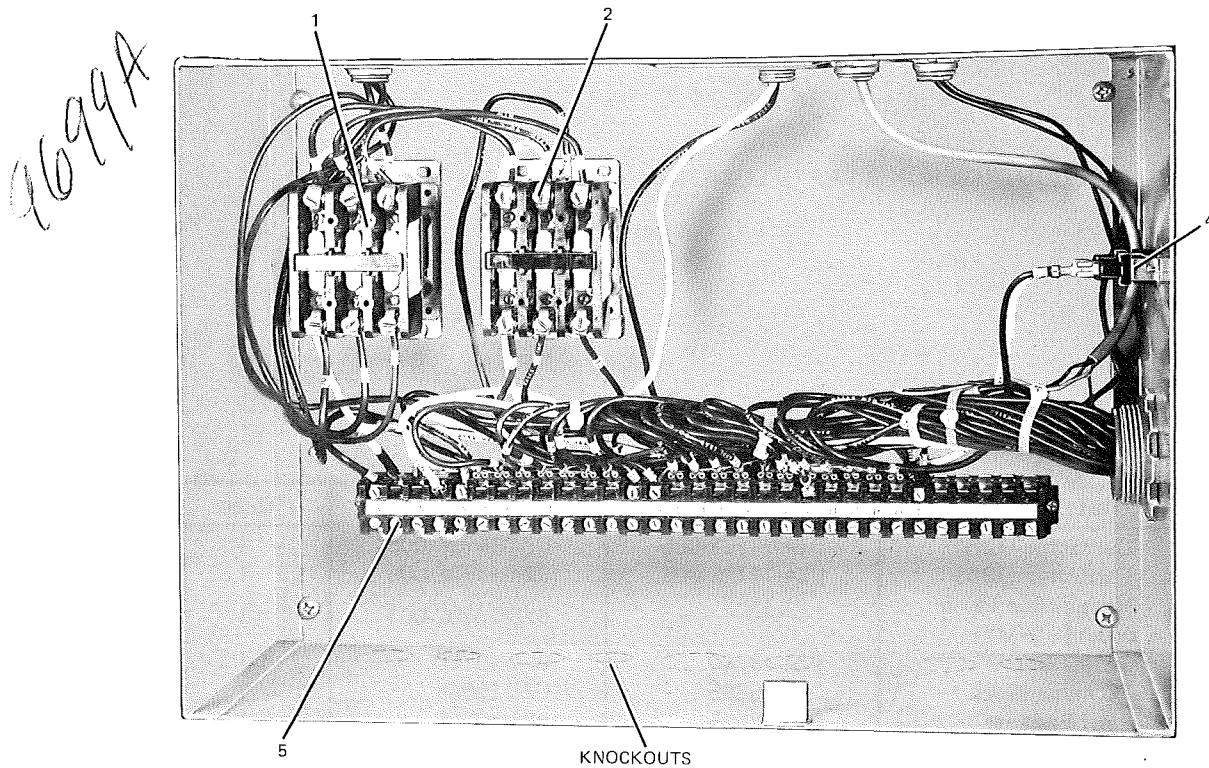


FIG. 36— HIGH VOLTAGE AUXILIARY CONTROL BOX

HIGH MOTOR TEMPERATURE CONTROL BOX

Item	Part Description	Quan.	Part No.
1	Contactor, 3 Pole	1	024-15648
2	Control, Temperature	1	025-15702
3	Transformer	1	325-16160-001
4	Isolators (For Mounting Control Temp.)	2	028-07744

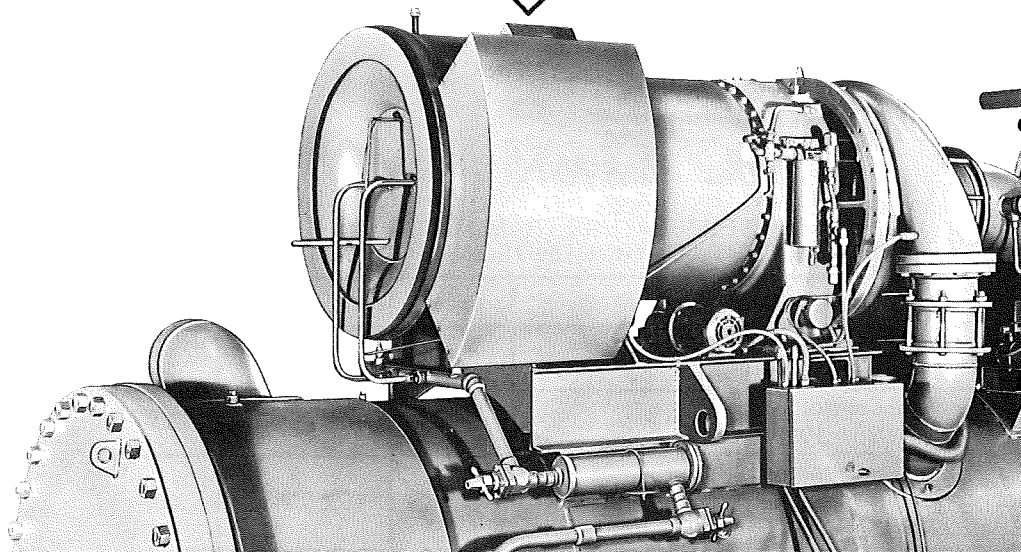
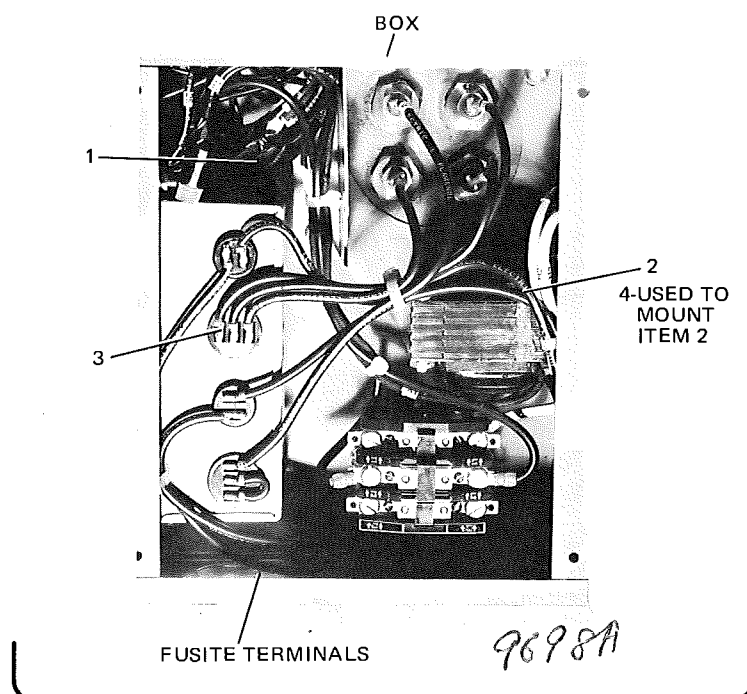
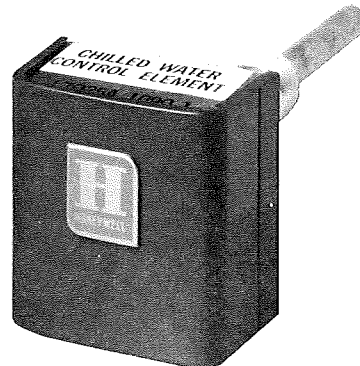
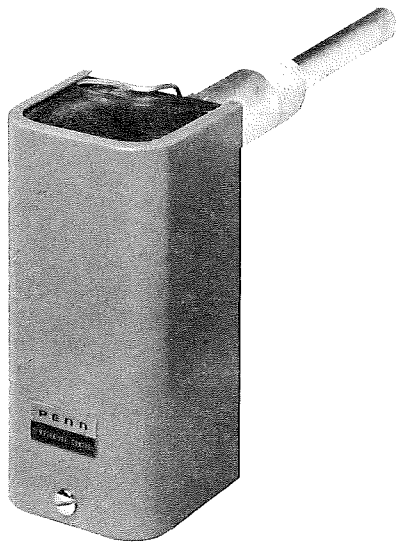


FIG. 37— HIGH MOTOR TEMPERATURE CONTROL BOX

ELECTRICAL AND PNEUMATIC COMPONENTS



8375A

FIG. 38— LOW WATER TEMPERATURE THERMOSTAT

FIG. 39— TEMPERATURE CONTROL SENSOR



30901

FIG. 40— LOW WATER TEMPERATURE TRANSMITTER
PNEUMATIC PRV CONTROL UNITS ONLY

Item	Description	Quan.	Part No.	Fig.
1	Low Water Temperature Thermostat Penn-A 19ABC-23-Range 20° F to 80° F	1	025-14464 *	38
2	Temperature Control Sensor Honeywell-7025A-1090	1	025-10439	39
3	Low Water Temperature Transmitter Johnson Service-T-5210-134 Range 32° F—57° F (Pneumatic Control Only)	1	022-03481	40

*Use same thermostat for LWT(S)

Subject to Change Without Notice

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