



HERMETIC AND OPEN TURBOPAK CENTRIFUGAL LIQUID CHILLING UNITS

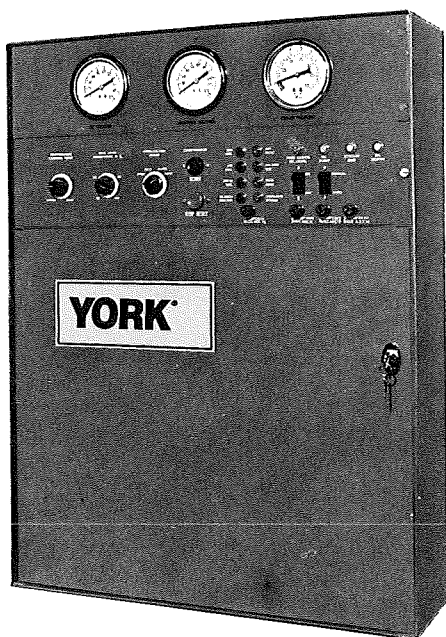
RENEWAL PARTS

Supersedes: 160.53-RP1.1 (Sect. 5) (1178)

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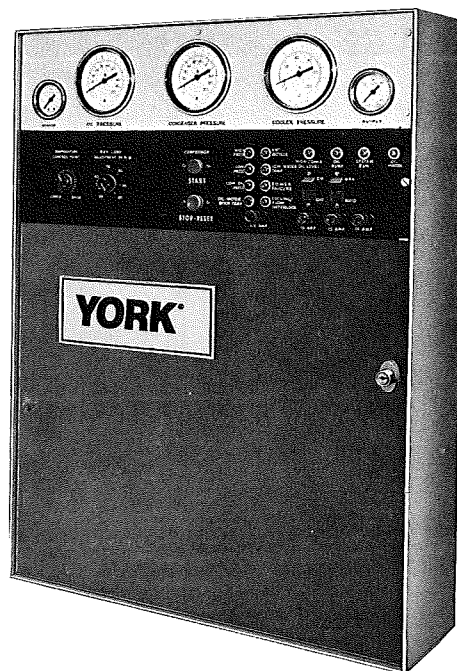
Form 160.53-RP2.5

**MODELS HT M1 G1 THRU HT T4 G2 (STYLE B)
MODELS OT M1 G1 THRU OT T4 G2 (STYLE B)
650 THRU 1300 TONS
ELECTRONIC AND PNEUMATIC CONTROL CENTERS
AND AUXILIARY CONTROL BOX**



**ELECTRONIC CONTROL CENTER
PART NO'S 366 - 79993 - 002
AND 366 - 79993 - 003**

**PNEUMATIC CONTROL CENTER
PART NO'S 366 - 80910 - 002
AND 366 - 80910 - 003**



ELECTRONIC CONTROL CENTER

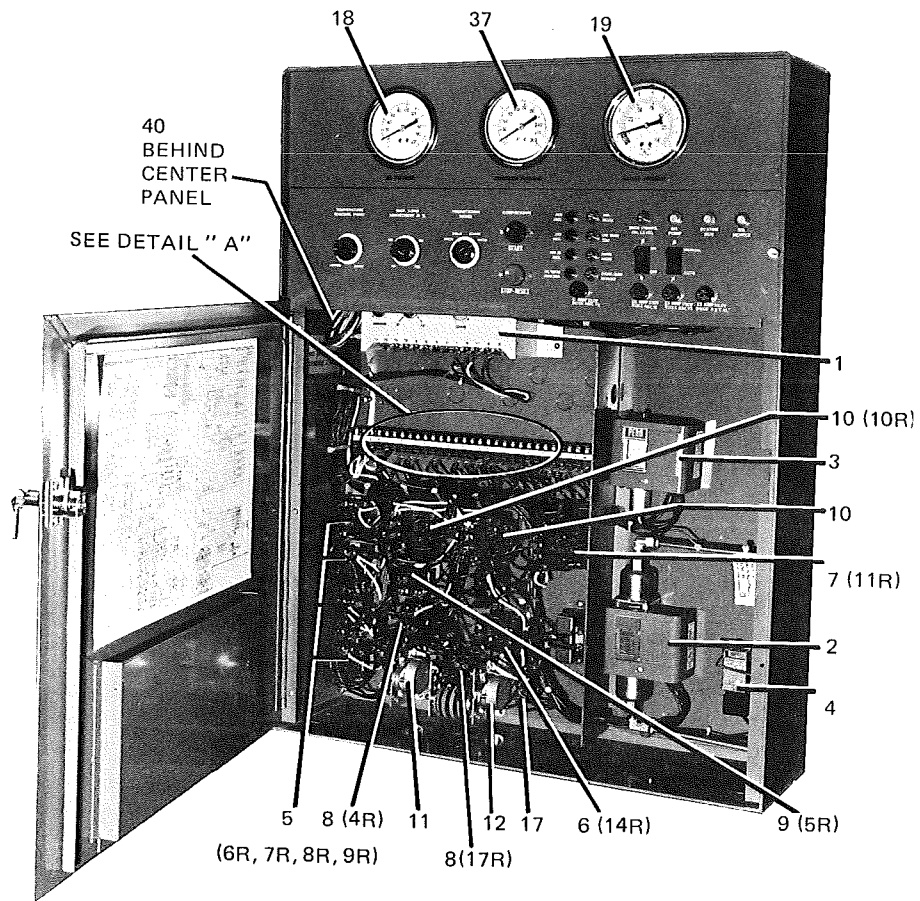
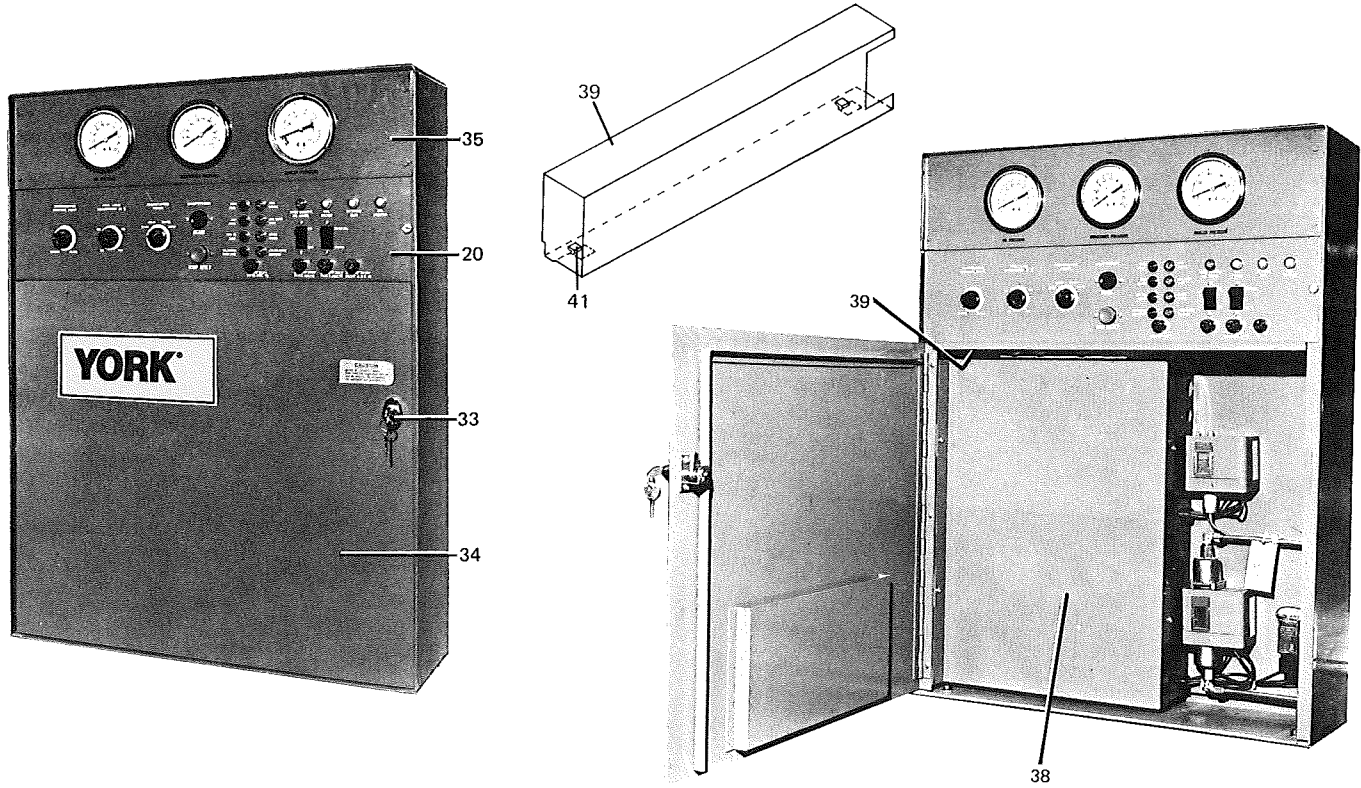


FIG. 1— ELECTRONIC CONTROL CENTER —

ELECTRONIC CONTROL CENTER

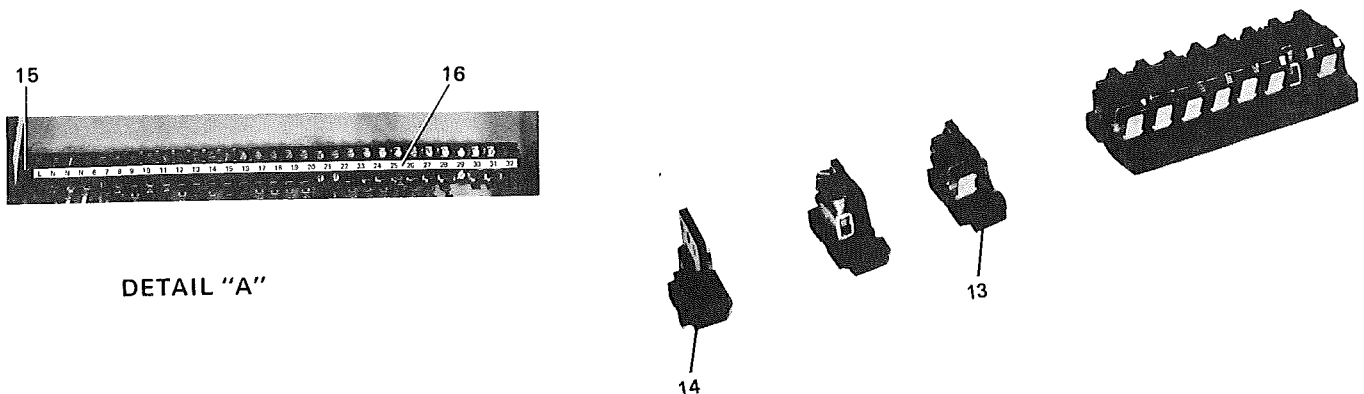


FIG. 2—TERMINAL STRIP PARTS

Item	Part Description	Fig.	Quan.	Part No.	
				R-12 366-79993-002	R-500 366-79993-003
1	Control Module	1	1	025-16883	025-16883
2	Control, Oil Pressure (OP)	1	1	025-14386	025-14386
3	Control, High Pressure	1	1	025-17289	025-17289
4	Control, Low Pressure (LP)	1	1	225-15929-002	225-15929-004
5	Relay, Control, RBM91 (6R, 7R, 8R, 9R)	1	4	024-17075	024-17075
6	Relay, Control, RBM91 (14R)	1	1	024-11655	024-11655
7	Relay, Control, RBM92 (11R)	1	1	024-11784	024-11784
8	Relay, Control, RBM91 (4R, 17R)	1	2	024-14519	024-14519
9	Relay, Control, RBM91 (5R)	1	1	024-13304	024-13304
10	Relay, Control, RBM92 (3R), (10R)	1	2	024-17093	024-17093
11	Timer (1TR) (30 Min.)	1	1	025-17172	025-17172
12	Timer (2TR) (4 Min.)	1	1	025-17626	025-17626
13	Block, Terminal	2	31	025-15865	025-15865
14	End, Terminal Block	2	1	025-13981	025-13981
15	Screw, Tap, Type F. Rd. Hd. 8 x 3/8	2	44	021-09779	021-09779
16	Strip, Marker	2	1	025-20517	025-20517
17	Switch (Service)	1	1	025-13760	025-13760
18	Gauge, Pressure (Oil Pressure)	1	1	026-14572-001	026-14572-001
19	Gauge, Pressure (Low Pressure)	1	1	026-14572-003	026-14572-003
20	Center Panel	1,3	1	366-80729	366-80729
21	Light, Indicator (Red) (4L, 5L, 6L, 7L)	3	4	025-13551	025-13551
22	Light, Indicator (Amber) (2L, 3L, 8L, 9L, 12L)	3	5	025-14025	025-14025
23	Light, Indicator (White) (1L, 10L, 11L)	3	3	025-15708	025-15708
24	Fuseholder	3	4	025-13991	025-13991
25	Fuse, 1/2 AMP, 250V, CTG. (4 FU)	3	1	025-14383	025-14383
26	Fuse, 15 AMP, 250V, CTG. (1 FU-3 FU)	3	3	025-14384	025-14384
27	Switch, Pushbutton (Black)	3	1	024-13761	024-13761
28	Switch, Pushbutton (Red)	3	1	024-16933	024-16933
29	Switch, Rocker	3	1	024-13760	024-13760
30	Switch, Rocker	3	1	024-16590	025-16590
31	Screw, Slot Hd. No. 2	3	1	021-11631	021-11631
32	Washer, Retaining, No. 2	3	1	021-11632	021-11632
33	Fastener, Lock and Key	1	1	021-13025	021-13025
34	Door, Control Panel	1	1	367-82337	367-82337
35	Panel, Gauge	1	1	367-82339	367-82339
36	Transformer (1T)	1	1	025-18690	025-18690
37	Gauge Pressure (High Pressure)	1	1	025-14572-005	025-14572-005
38	Barrier Relay	1	1	066-79132	066-79132
39	Barrier Center Panel	1	1	066-79131	066-79131
40	Gaurd Harness	1	1	066-79324	066-79324
41	Clip	2	2	021-12047	021-12047

ELECTRONIC CONTROL CENTER

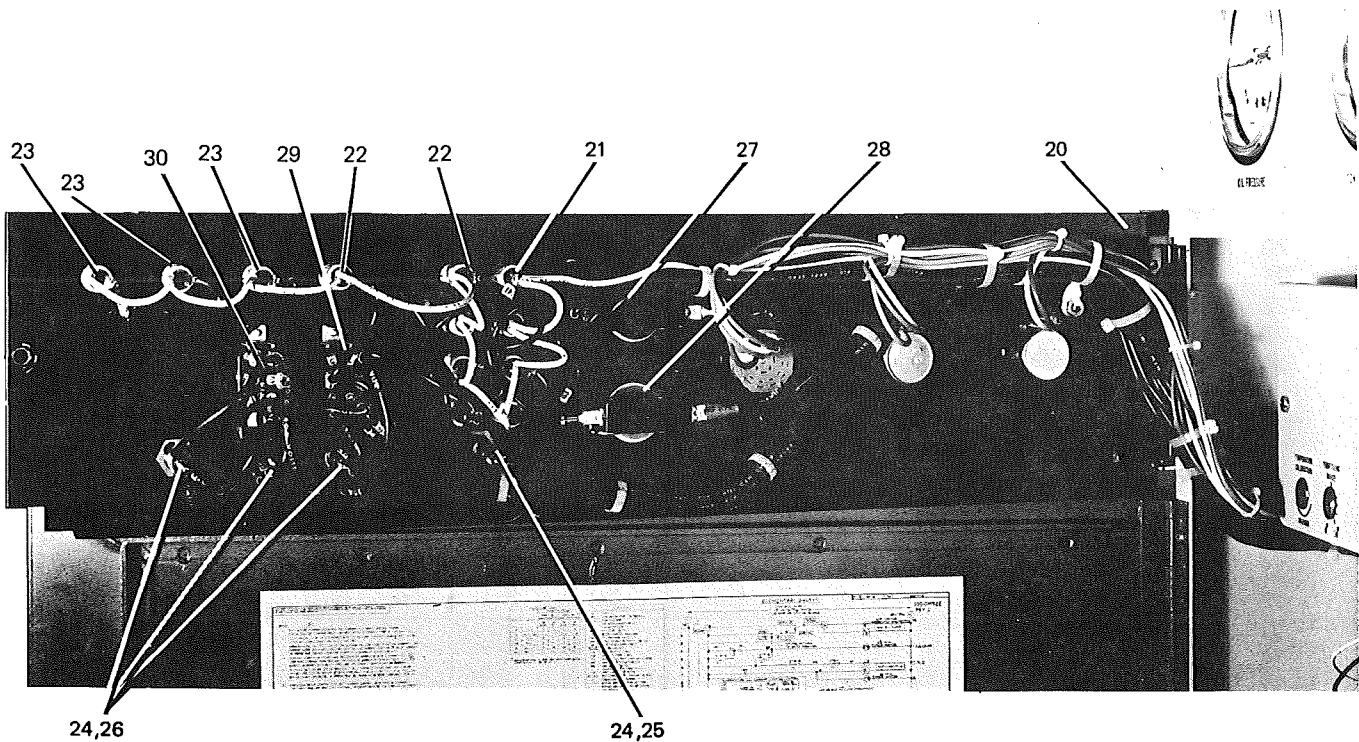
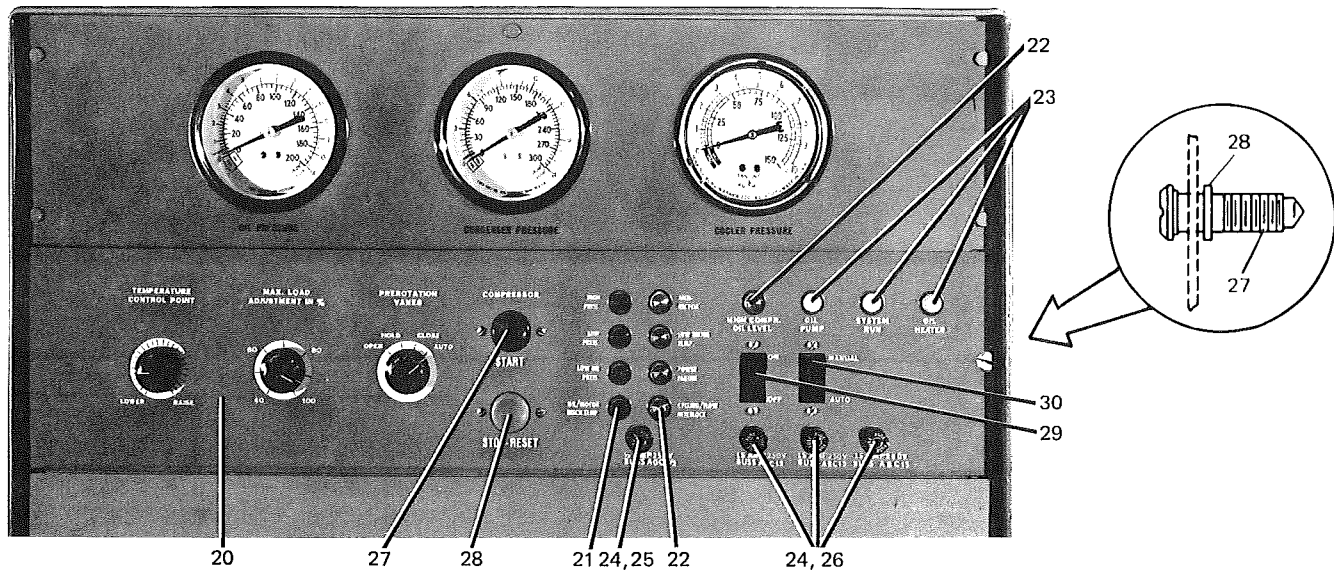


FIG. 3- ELECTRONIC CONTROL PANEL — PARTS LOCATION

PNEUMATIC CONTROL CENTER

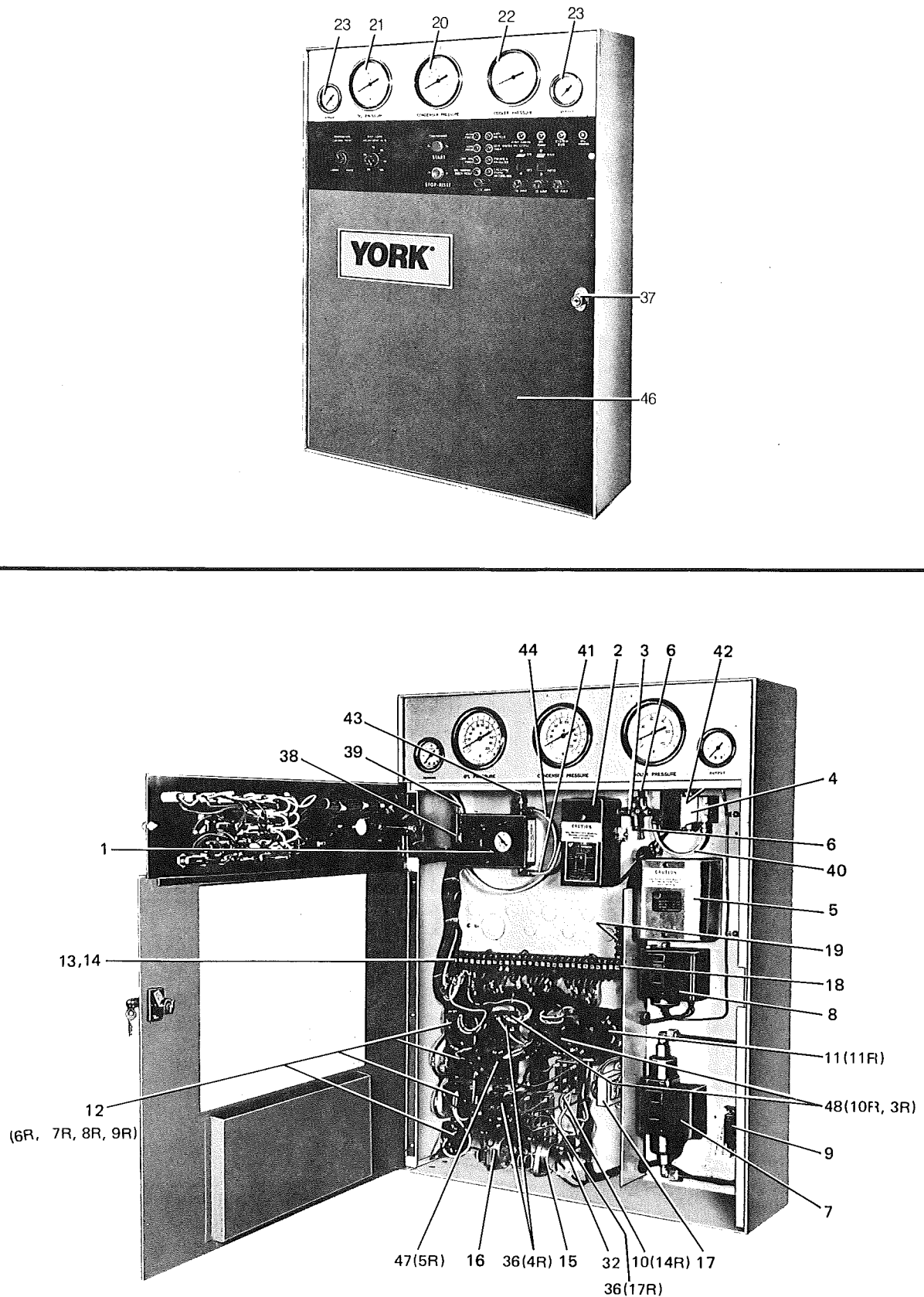


FIG. 4— PNEUMATIC CONTROL CENTER — DOOR OPEN

PNEUMATIC CONTROL CENTER

Item	Part Description	Fig.	Quan.	Part No.	
				Standard** 366-80910-002	Low Temp.** 366-80910-003
1	Controller, Temperature (TC)	4	1	026-16196	026-16196
2	Current Limit Relay (Transducer) (CLR)	4	1	324-15335-001	324-15335-001
3	Restrictor, Variable Adjustable	4	1	026-15426	026-15426
4	Valve, Prv Air Solenoid (1 SOL)	4	1	325-11931-001	325-11931-001
5	Controller, Load Limiting (LLC)	4	1	025-17362	025-17362
6	Plug, Pipe 1/8 NPT	4	2	023-01182	023-01182
7	Control, Oil Pressure (OP)	4	1	025-14386	025-14386
8	Control, High Pressure (HP)	4	1	025-17289	025-17289
9	Control, Low Pressure (LP)	4	1	225-15929-002	225-15929-004
10	Relay, Control, RBM91 (14R)	4	1	024-11655	024-11655
11	Relay, Control, RBM92 (11R)	4	1	024-11784	024-11784
12	Relay, Control, RBM91 (6R, 7R, 8R, 9R)	4	4	024-17075	024-17075
13	Block, Terminal (Push-On Terminal)	4,5	36	025-15865	025-15865
14	Block, Terminal, End	4,5	2	025-13981	025-13981
15	Timer (2TR)	4	1	025-17626	025-17626
16	Timer, Repeat Cycle (1TR)	4	1	025-17172	025-17172
17	Transformer (2T)	4	1	325-16601-002	325-16601-002
18	Strip, Marker	4	1	025-20517	025-20517
19	Strip, Marker	4	1	025-20518	025-20518
20	Gauge, Pressure (HP)	4,7	1	026-14572-005	026-14572-005
21	Gauge, Pressure (OP)	4,7	1	026-14572-001	026-14572-001
22	Gauge, Pressure (LP)	4,7	1	026-14572-003	026-14572-003
23	Gauge, Pressure (Air)	4,7	2	026-16195	026-16195
24	Panel, Center	6	1	366-40651	366-40651
25	Light, Indicator (Red) (L-4—L-7)	6,8	4	025-13551	025-13551
26	Light, Indicator (Amber) (L2—3, L8, L9—12)	6,8	4	025-14025	025-14025
27	Fuseholder	6,8	4	025-13991	025-13991
28	Fuse, 1/2 AMP, 250V, CTG (4FU)	6,8	1	025-14383	025-14383
29	Fuse, 15 AMP, 250V, CTG (1FU-3FU)	6,8	3	025-14384	025-14384
30	Switch, Pushbutton, Black	6,8	1	024-13761	024-13761
31	Switch, Pushbutton, Red	6,8	1	024-16933	024-16933
32	Switch, Rocker (Service)	6,8,4	2	024-13760	024-13760
33	Resistor, Variable	8	1	025-15890	025-15890
34	Screw, Slot Hd., No. 2	6	1	021-11631	021-11631
35	Washer, Retaining No. 2	6	1	021-11632	021-11632
36	Relay, Control RBM91 (4R, 17R)	4	2	024-14519	024-14519
37	Fastener, Lock and Key	4	1	021-13025	021-13025
38	Restrictor, Pneumatic	4	1	026-16208	026-16208
39	*Tube, Plastic 1/4 O.D. x .040 x 6 Lg.	4	1	067-32310	067-32310
40	*Tube, Plastic 1/4 O.D. x .040 x 6-1/2 Lg.	4	1	066-20823	066-20823
41	*Tube, Plastic 1/4 O.D. x .040 x 8-1/2 Lg.	4	1	066-17027	066-17027
42	*Tube, Plastic 1/4 O.D. x .040 x 10 Lg.	4	2	066-17028	066-17028
43	*Tube, Plastic 1/4 O.D. x .040 x 14 Lg.	4	1	066-17029	066-17029
44	*Tube, Plastic 1/4 O.D. x .040 x 18 Lg.	4	1	066-17030	066-17030
45	*Tube, Plastic 1/4 O.D. x .040 x 20-1/2 Lg.	7	1	066-17031	066-17031
46	Door Control Panel	4	1	367-82337	367-82337
47	Relay, Control RBM91 (5R)	4	1	024-12951	024-12951
48	Relay, Control RBM92 (3R) (10R)	4	1	024-17093	024-17093
49	Shaft, Flex. and Panel Bearing	8	1	025-15891	025-15891
50	Pressure Regulator	9	1	022-03533	022-03533
51	Gauge	9	1	026-10301	026-10301
52	Light Indicator (White) (L-1, 10, 11)	6	3	025-15708	025-15708
53	Switch, Rocker (Oil)	4,6,8	1	024-16590	024-16590

*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

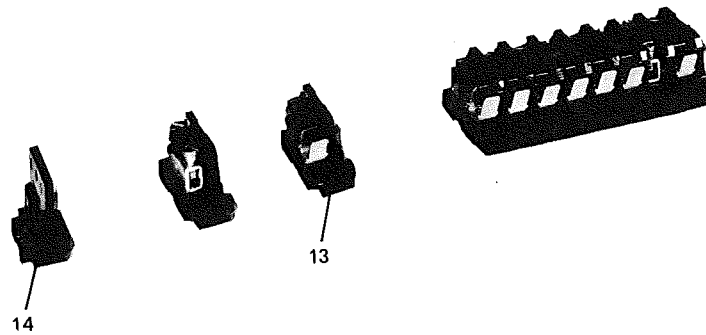


FIG. 5— TERMINAL STRIP

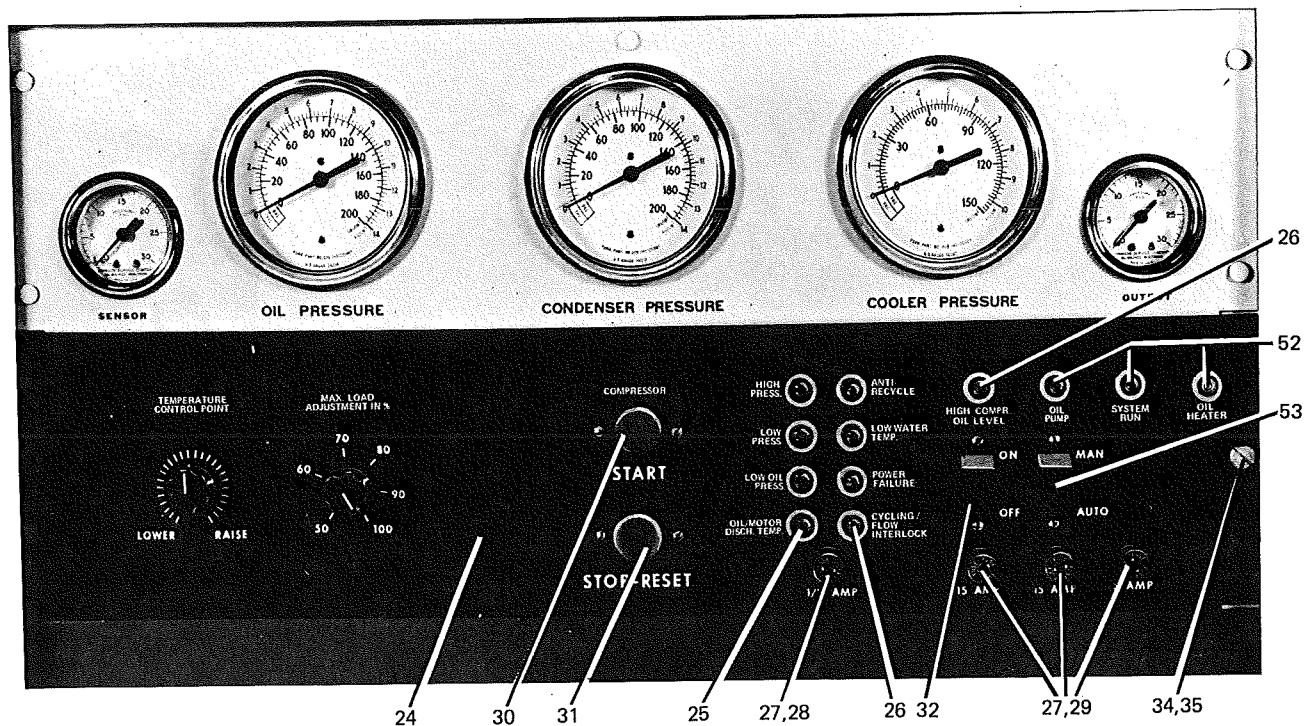


FIG. 6— PNEUMATIC CONTROL CENTER – FRONT VIEW

PNEUMATIC CONTROL CENTER

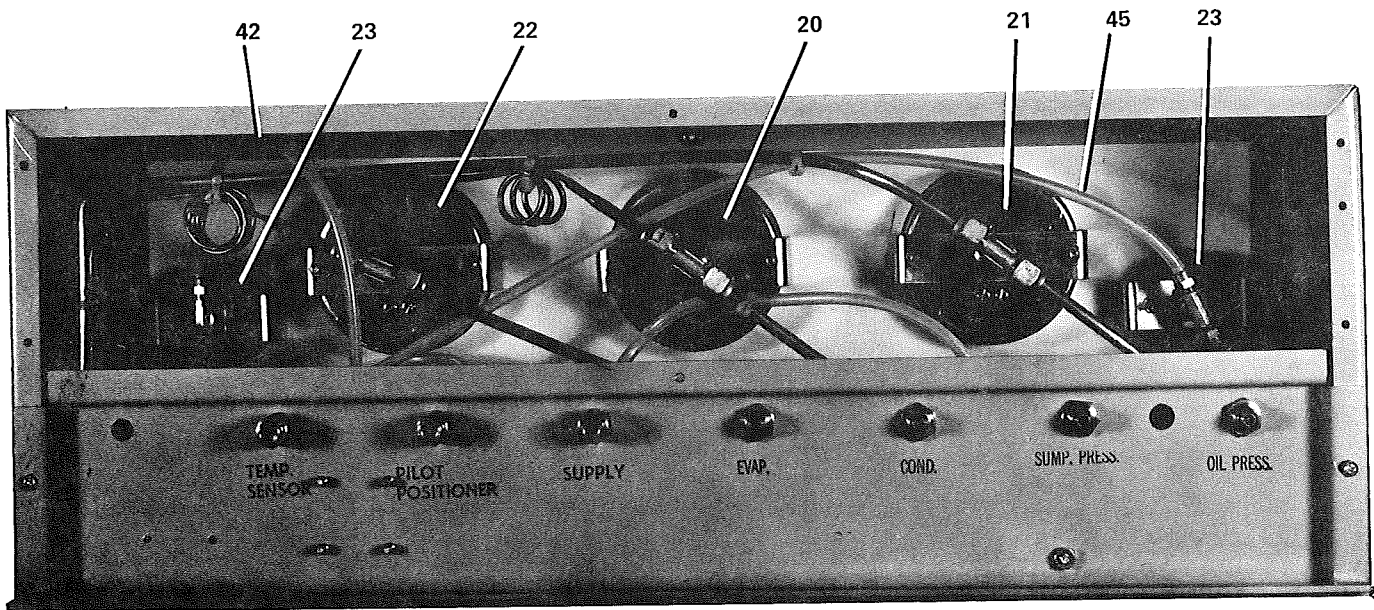


FIG. 7— REAR VIEW CONTROL CENTER SHOWING GAUGE HOOK-UP

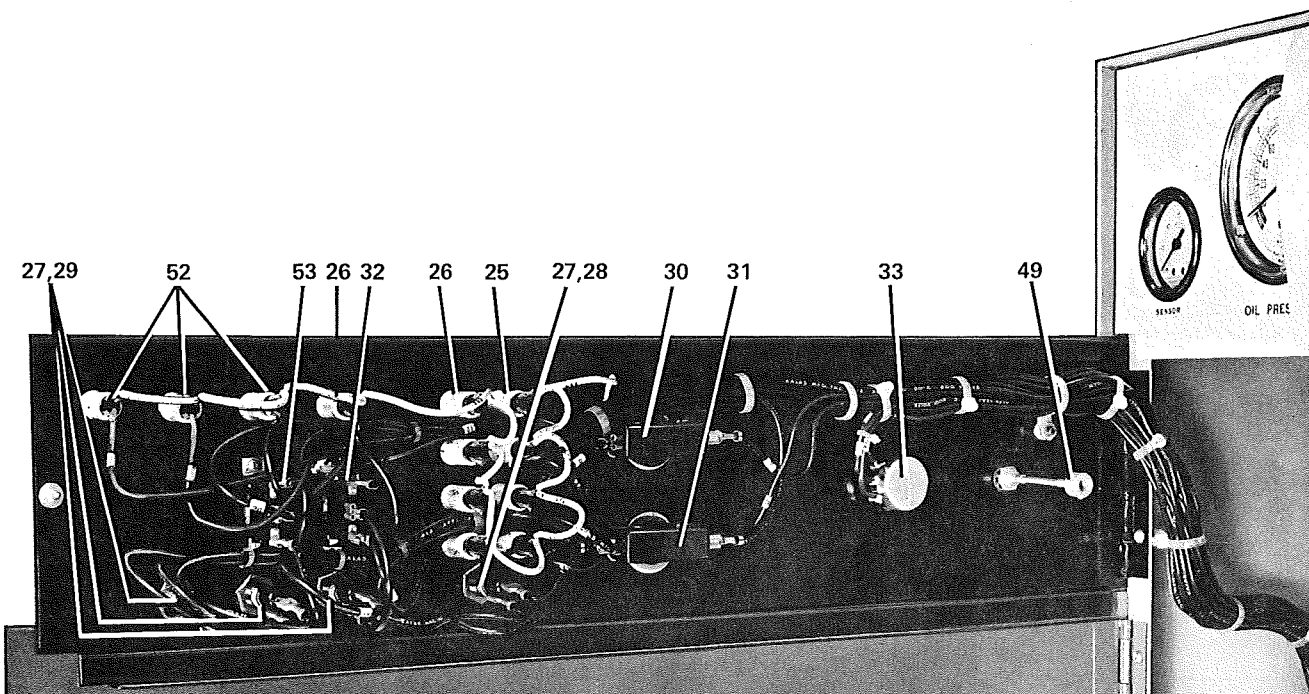


FIG. 8— CENTER CONTROL PANEL — REAR VIEW

PNEUMATIC CONTROL CENTER

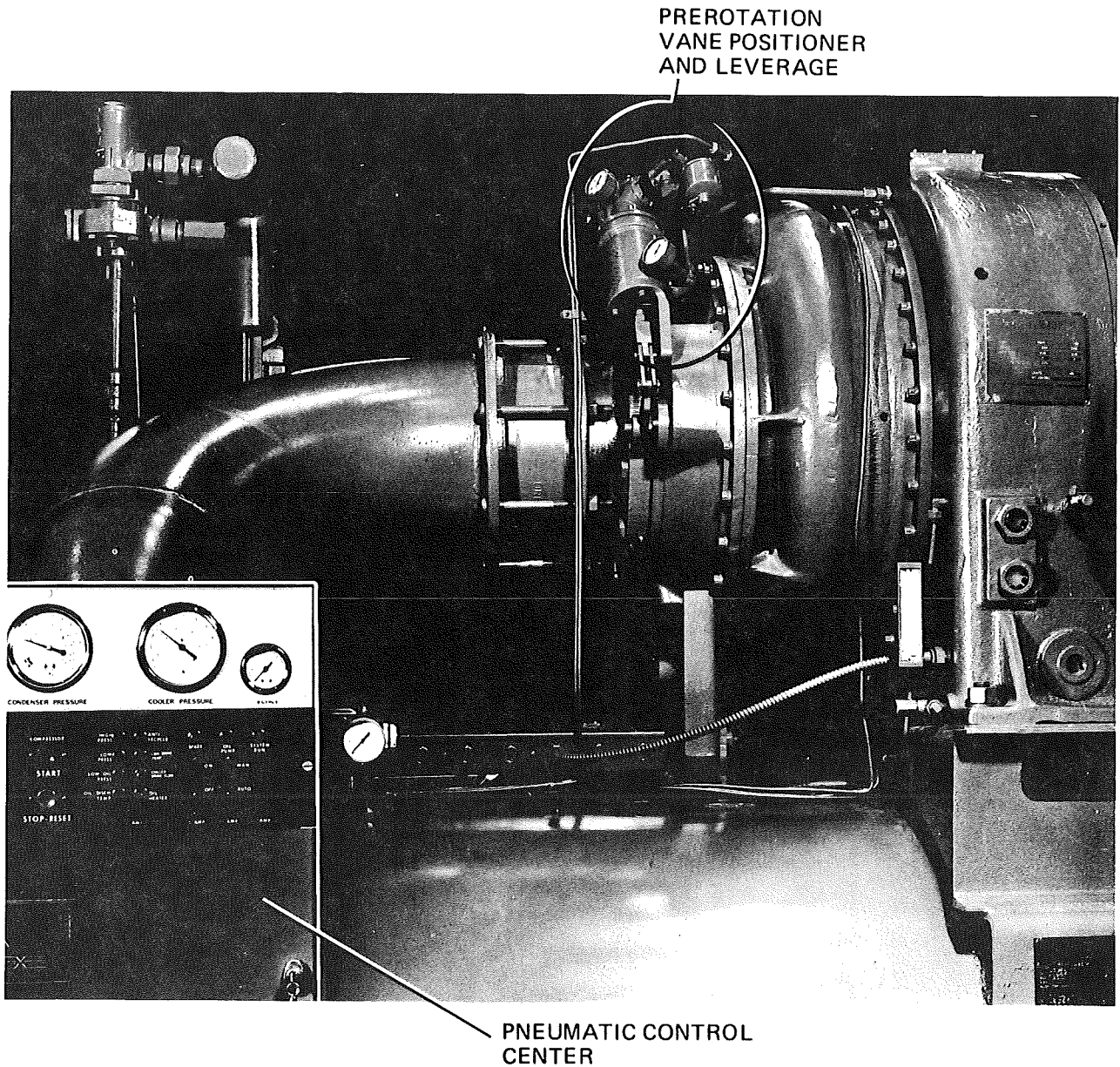
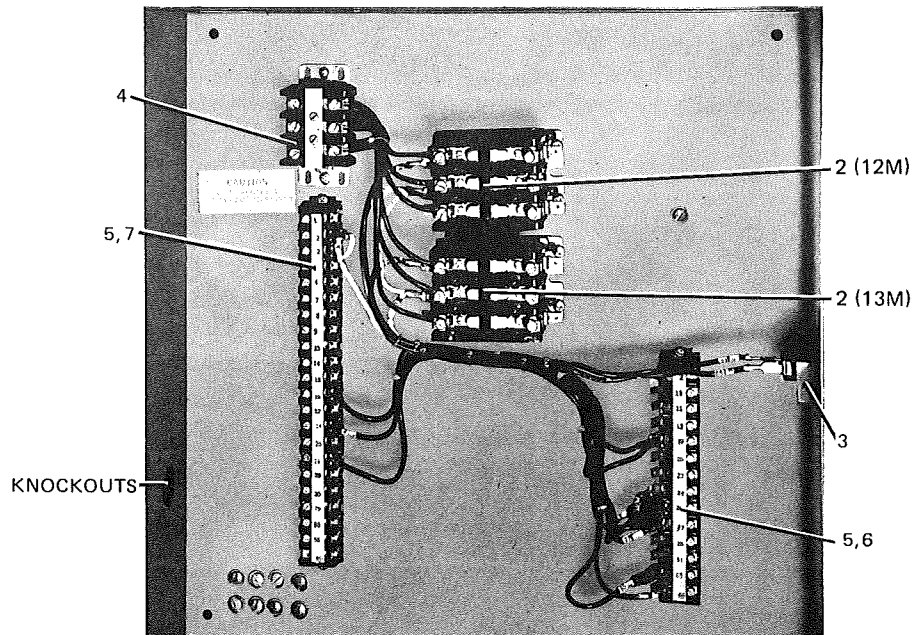


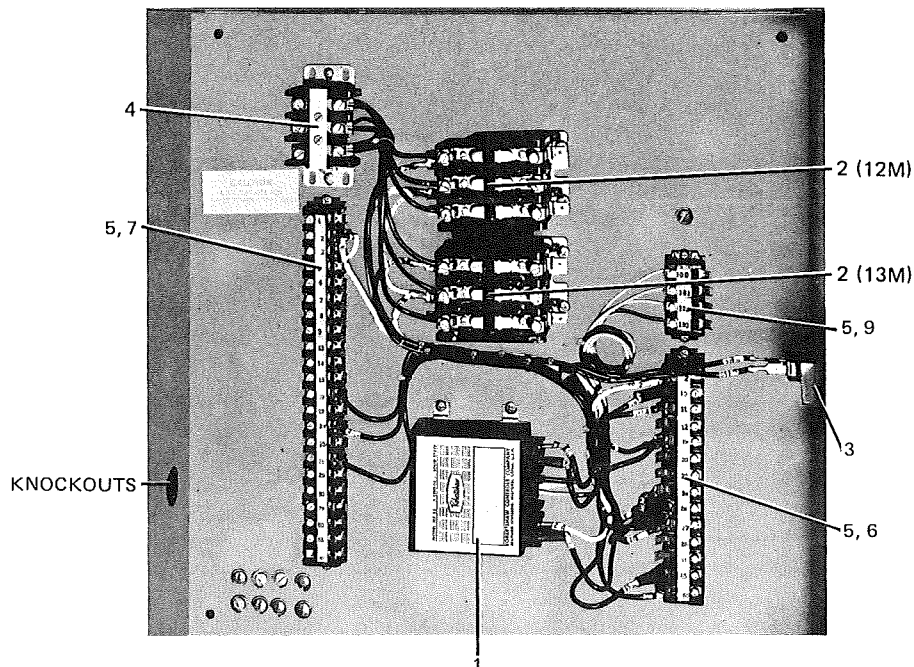
FIG. 9— PNEUMATIC CONTROL CENTER — MOUNTED ON UNIT

AUXILIARY CONTROL BOX



NOTE: Unit less transfer unit do not contain items 3, 10 and only quan. 1 of item 2 (12M).

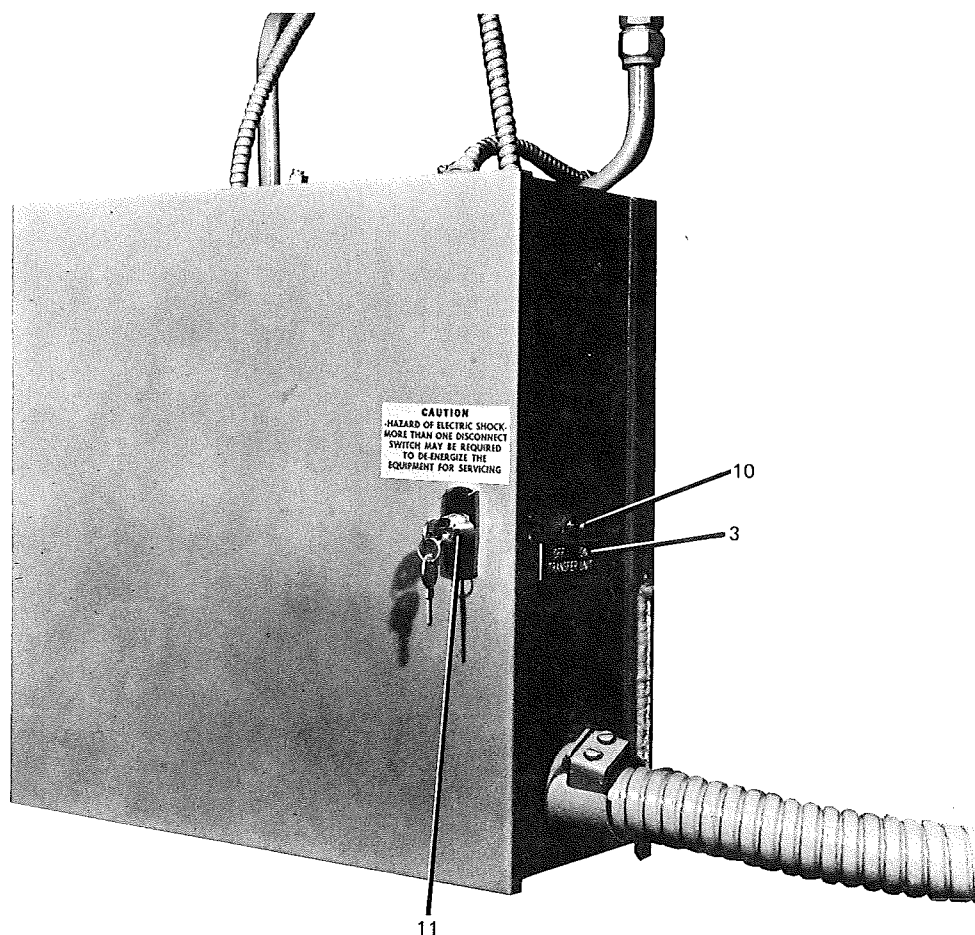
FIG. 10 — LOW VOLTAGE AUXILIARY CONTROL BOX — OT TURBOPAKS ONLY



NOTE: Units less transfer unit do not contain items 3, 10 and only quan. 1 of item 2 (12M).

FIG. 11 — HIGH VOLTAGE AUXILIARY CONTROL BOX — HT TURBOPAKS

AUXILIARY CONTROL BOX



NOTE: Units less transfer unit do not contain item 4 & 8.

FIG. 12—AUXILIARY CONTROL BOX—PARTS LOCATION

Item	Part Description	HT TURBOPAK W/ Transfer Unit & HMT Module 366-80617-001		HT TURBOPAK W/O Transfer Unit & HMT Module 366-80618-001		OT TURBOPAK W/ Transfer Unit 366-80747-001		OT TURBOPAK W/O Transfer Unit 366-80748-001		
		Quan.	Part No.	Quan.	Part No.	Quan.	Part No.	Quan.	Part No.	
1	HMT Module	1	025-19369-003	1	025-19369-003	—	—	—	—	10, 11
2	Contactor (12M)* (13M)**	2	024-19325	1	024-19325*	2	024-19325	1	024-19325*	10, 11
3	Switch (Transfer Unit)	1	024-11736	—	—	1	024-11736	—	—	12
4	Terminal Block (3-PH-50/60)	1	025-07725	1	025-07725	1	025-07725	1	025-07725	10, 11
5	Terminal Block (1-PH-50/60)	40	025-15865	40	025-15865	36	025-15865	36	025-15865	10, 11
6	Terminal Block End	3	025-13931	3	025-13931	2	025-13931	2	025-13931	10, 11
7	Strip Marker (1-PH-50/60)	1	025-20514	1	025-20514	1	025-20514	1	025-20514	10, 11, 12
8	Strip Marker	1	025-20515	1	025-20515	1	025-20515	1	025-20515	10, 11
9	Strip Marker	1	025-20593	1	025-20593	—	—	—	—	10, 11
10	Nameplate, Transfer Unit Switch	1	029-11140	—	—	1	029-11140	—	—	12
11	Pawl Fastener	1	021-13025	1	021-13025	1	021-13021	1	021-13021	12

*(12M)- Oil Pump Contactor

** (13 M)- Transfer Unit Contactor

NOTE: OT units do not include item 1.

HT and OT units without transfer unit do not include items 3 , 10, and only quan. 1 of item 2.



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