

YORK®

PACKAGED LIQUID CHILLERS AIR COOLED—RECIPROCATING HERMETIC

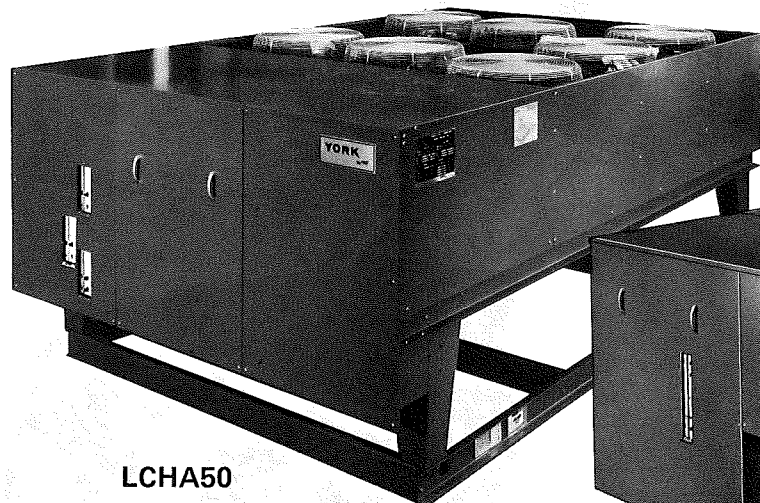
RENEWAL PARTS

Supersedes: Nothing

785

Form 150.50-RP1

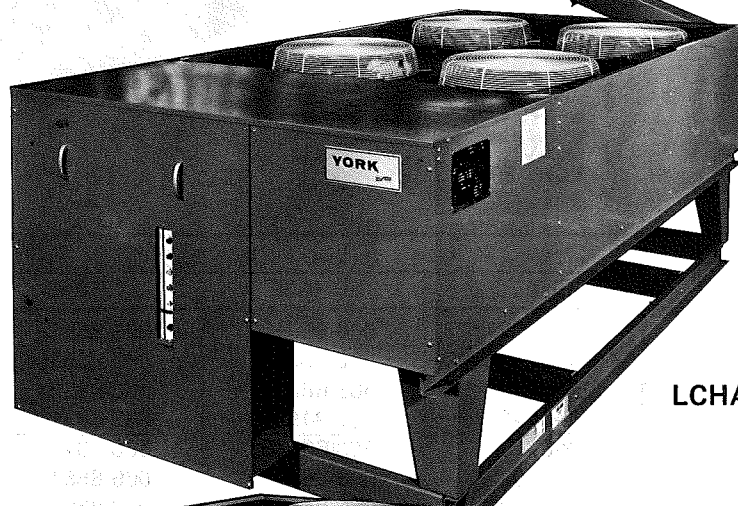
MODEL LCHA20, 30, 40, 50 STYLE A



LCHA50



LCHA40



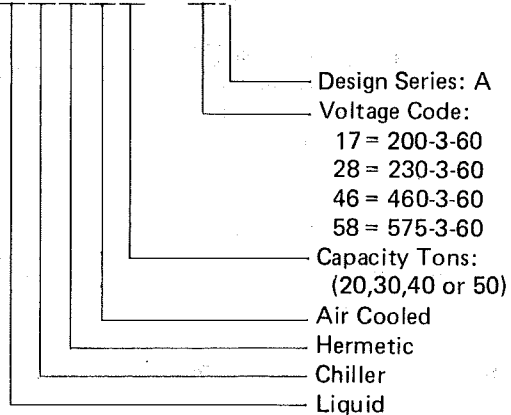
LCHA30

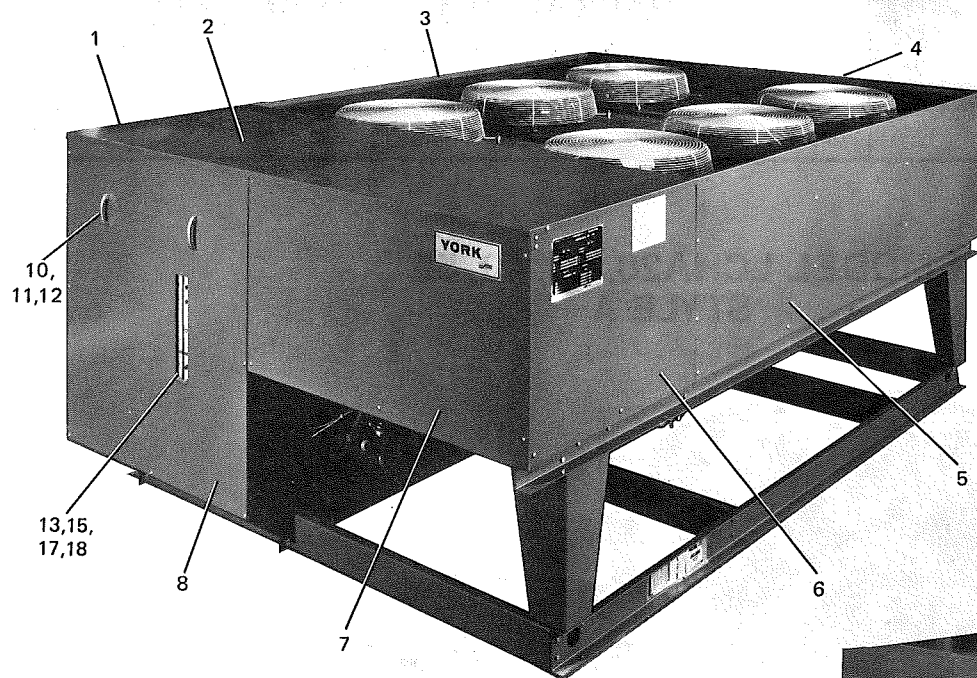


LCHA20

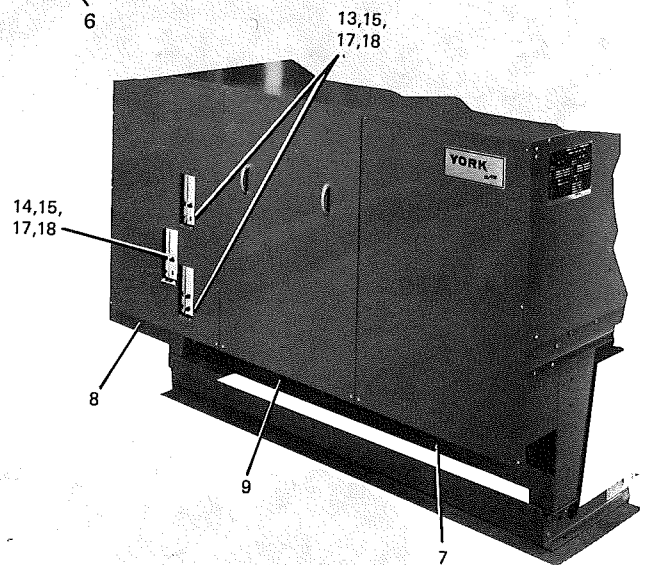
NOMENCLATURE

L C H A 30 - 28 A





LCHA20, 30, 40

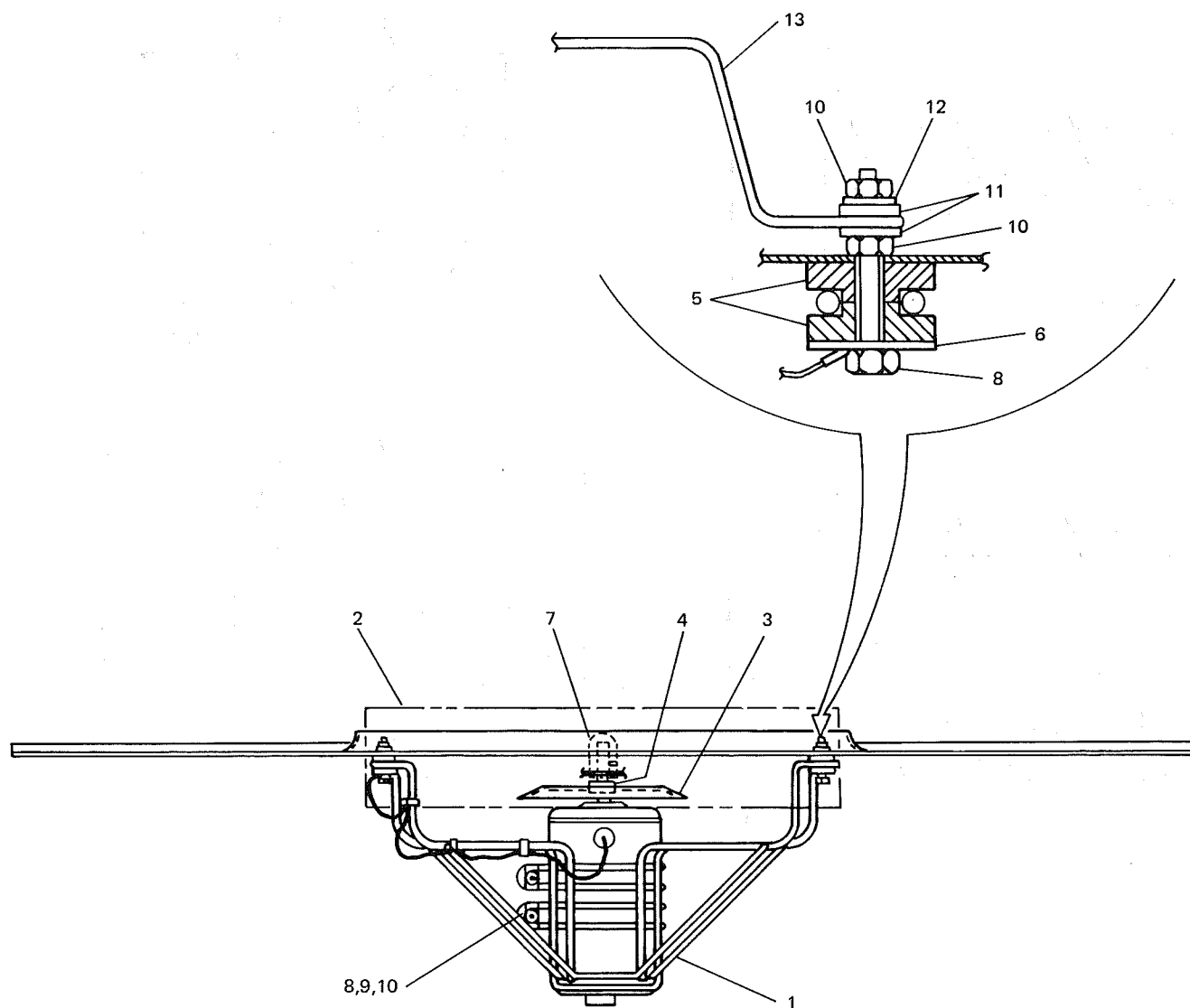


LCHA50

Item No.	Description	Part No.			
		LCHA20	LCHA30	LCHA40	LCHA50
1	Panel, Comp. End (L.H.)	066-85024	066-85516	066-85518	066-84280
2	Panel, Comp. (Top)	066-85025	066-85529	066-85530	066-84282
3	Panel, Side (L.H.)	363-67229	363-66874	366-88221	366-86907
4	Panel, End	063-67224	062-94531	063-68383	066-86915
5	Panel, Side (R.H.)	363-67230	363-66866	366-88222	366-86909
6	Panel, Comp. End (R.H.)	066-85023	066-85515	066-85517	066-84281
7	Panel, Front (R.H.)	066-85272	066-85570	066-85571	066-84941
8	Panel, Front (L.H.)	366-89716	366-89717	366-89718	366-87948
9	Panel, Front (Center)	—	—	—	066-84942
10	Handle	029-08701	029-08701	029-08701	029-08701
11	Screw (2/Handle)	021-03745	021-03745	021-03745	021-03745
12	Lockwasher (2/Handle)	021-16150	021-16150	021-16150	021-16150
13	Door, Plexiglas	028-10196	028-10196	028-10196	028-87937
14	Door, Plexiglas	—	—	—	028-10187
15	Handle	066-83927	066-83927	066-83927	066-87949
16	Screw	021-16148	021-16148	021-16148	021-16148
17	Nut, Hex	021-16153	021-16153	021-16153	021-16153
18	Lockwasher	021-16150	021-16150	021-16150	021-16150
19*	Flow Switch	024-15793	024-15793	024-15793	024-15793

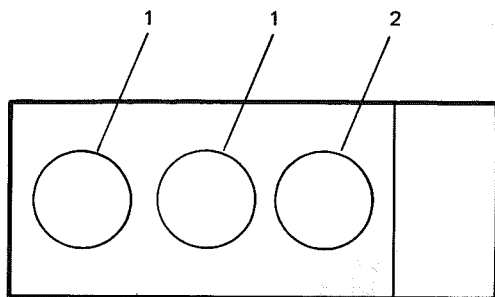
* Not Shown

FIG. 1 — EXTERIOR COMPONENTS — LCHA20, 30, 40, 50

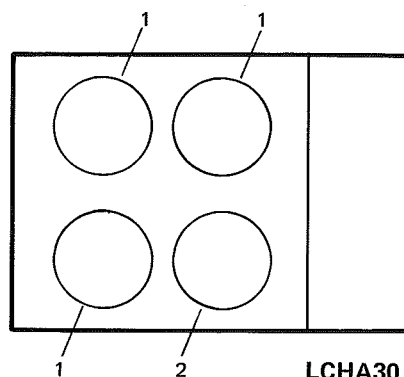


Item No.	Description	Part No.
1	Bracket, Fan Motor	Q26-17579
2	Fan Disc	026-21917
3	Shield, Rain	062-30549
4	Grommet, Motor Shaft	028-04209
5	Grommet, Motor Mounting (8 Per Fan)	028-04210
6	Washer, Flat	021-12555
7	Cap, Hub	028-07364
8	Screw 1/4"-20 x 1-3/4"	021-07127
9	Lockwasher	021-03233
10	Nut, Hex 1/4"-20	021-16151
11	Washer, Flat	021-16165
12	Lockwasher	021-16128
13	Fan Guard	026-19807

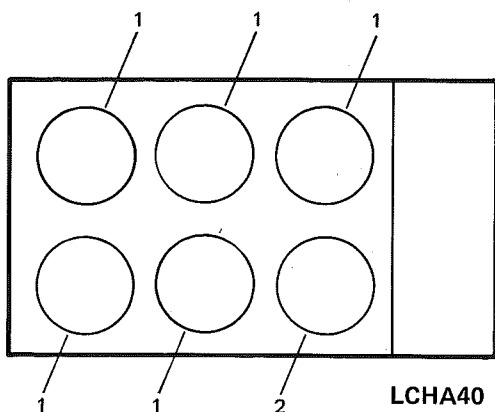
FIG. 2 – FAN COMPONENTS — LCHA20, 30, 40, 50



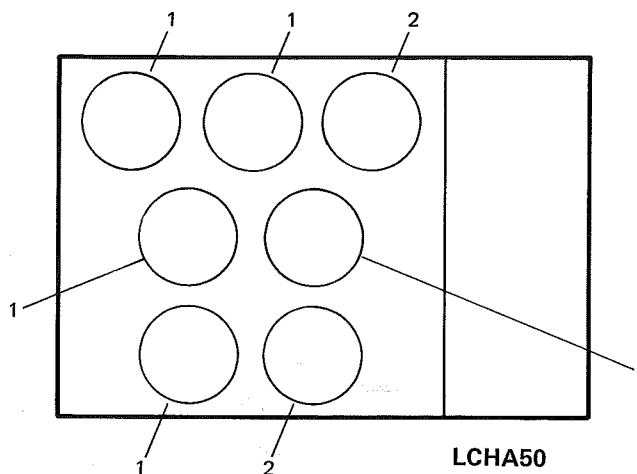
LCHA20



LCHA30



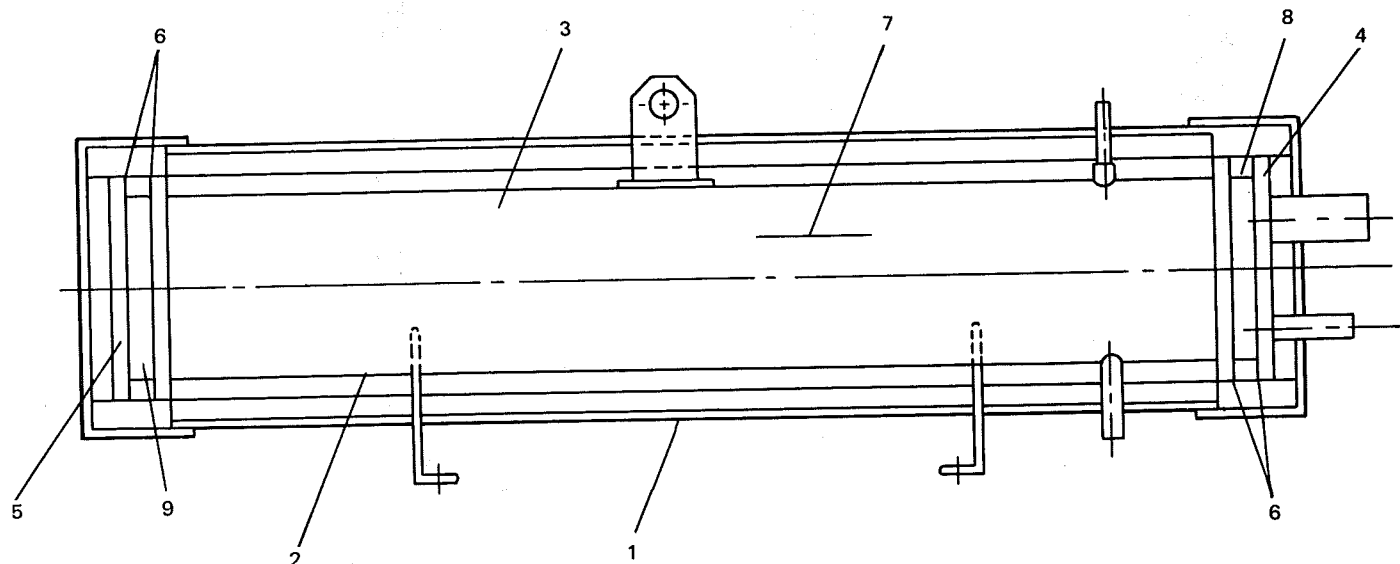
LCHA40



LCHA50

Model	Unit Voltage	Fan Position	Motor Part Number
17A & 28A	200/230-3-60	1	024-18396
		2	024-19879
46A	460-3-60	1	024-18397
		2	024-19878
58A	560-3-60	1	024-18397
		2	024-19878
63A	220-3-50	1	024-18396
		2	024-19879
50A	380/415-3-50	1	024-18397
		2	024-19878

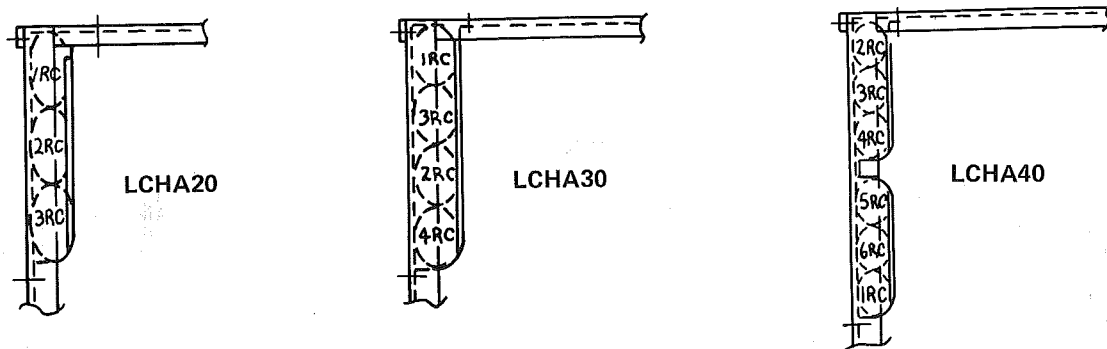
FIG. 3 – FAN MOTORS – LCHA20, 30, 40, 50



Item No.	Description	Part No.			
		LCHA20	LCHA30	LCHA40	LCHA50
1	Cooler, Complete (Includes Insulation & Heater)	366-88041	366-88041	366-88042	366-88043
2	Cooler (Less Insulation & Heater)	366-87642	366-87642	366-87643	366-87444
3	Tube	007-06743-001	007-06743-001	007-06743-001	007-06743-002
	No. Required	136	136	218	216
4	Head, Front (Water In)	366-87456	366-87456	366-87722	366-87609
5	Head, Rear (Water Out)	066-87451	066-87451	366-87608	366-87608
6	Gasket, Head & Pass Baffel (2 Req'd./Head)	066-87669	066-87669	066-87443	066-87443
7	Heater	025-22690	025-22690	025-22691	025-22691
8	Baffel, Pass (Front)	366-87459	366-87459	366-87726	366-87449
9	Baffel, Pass (Rear)	066-87641	066-87641	066-87727	066-87447
10*	Washers (Head Gasket)	021-15676	021-15676	021-15676	021-15676
	No. Required	32	32	32	32
11*	Insulation (3/4" x 49" x 65")	010-04198	010-04198	010-04198	010-04198

*Not Shown

FIG. 4 – COOLER – LCHA20, 30, 40, 50



Capacitor, Fan

LCHA20 (1RC, 2RC, 3RC)

024-20446

LCHA30 (1RC, 2RC, 3RC, 4RC)

024-20446

LCHA40 (1RC, 2RC, 3RC, 4RC, 5RC, 6RC)

024-20446

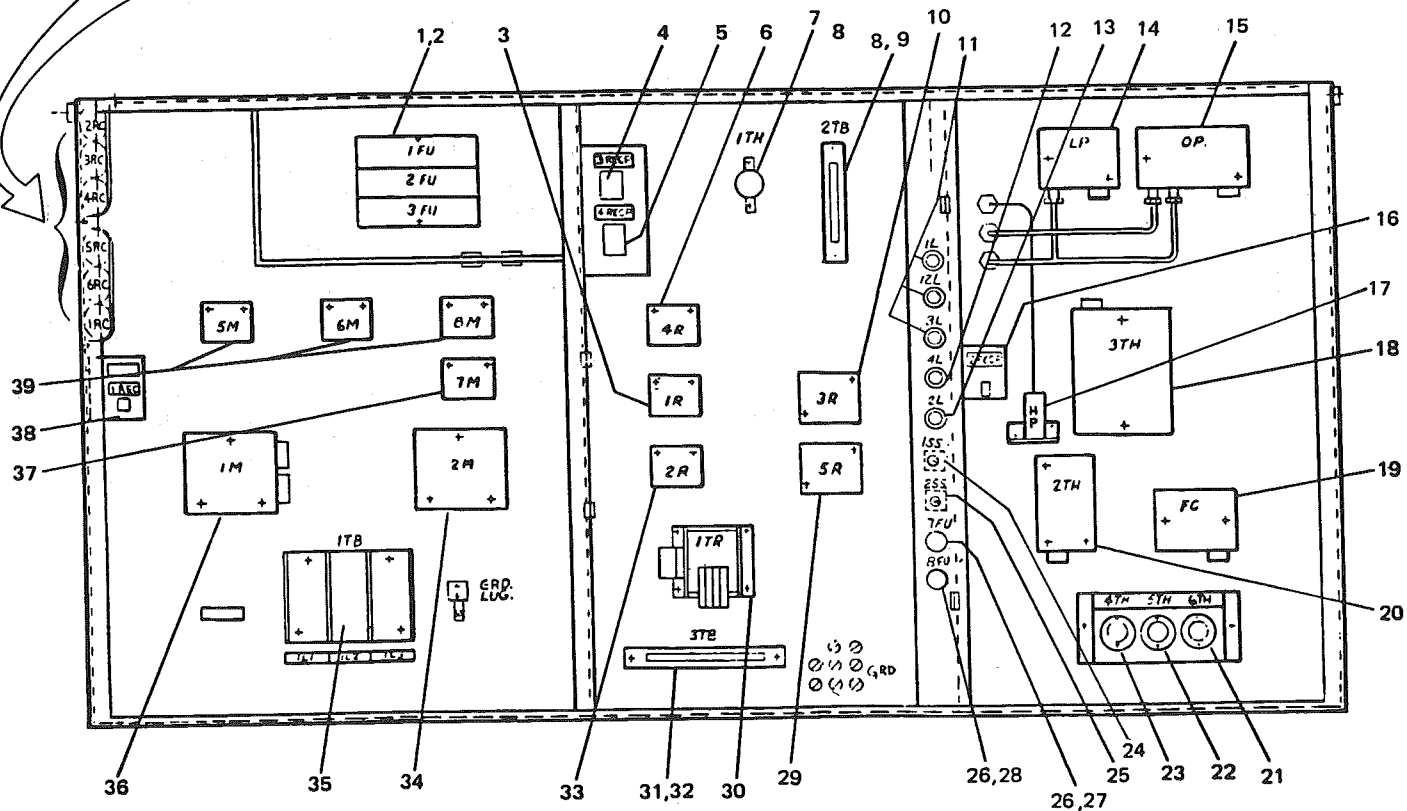


FIG. 5 - CONTROL PANEL - LCHA20, LCHA30, LCHA40

Item No.	Description	Part No.		
		-17F, -28F, -63F	-46F, -50F	-58F
1	Fuse (1FU, 2FU, 3FU) LCHA20 LCHA30 LCHA40	025-16402 025-09976 025-05750	025-05742 025-11910 025-06079	025-16404 025-05742 025-11910
2	Fuseholder	025-14368	025-13947	025-13947
3	Relay (1R)	024-11655	024-11655	024-11655
4	Housing, Elec. (3 Rec'p)	025-20787	025-20787	025-20787
5	Housing, Elec. (4 Rec'p)	025-20788	025-20788	025-20788
6	Relay (4R)	024-11784	024-11784	024-11784
7	Thermostat (1TH)	025-17622	025-17622	025-17622
8	Block, Terminal (2TB) (14 Req'd)	025-20944	025-20944	025-20944
9	Block, Terminal End (2TB)	025-20946	025-20946	025-20946
10	Relay (3R) (2R)	024-17093	024-17093	024-17093
11	Light, Pilot, Red (1L, 3L)	025-12095	025-12095	025-12095
12	Light, Pilot, Clear (4L)	025-14049	025-14049	025-14049
13	Light, Pilot, Amber (2L)	025-13088	025-13088	025-13088
14	Control, Pressure (LP)	025-22703 001	025-22703 001	025-22703 001
15	Control, Pressure (OP)	025-18927	025-18927	025-18927
16	Housing, Elec. (1 Rec'p)	025-21191	025-21191	025-21191
17	Control, Pressure (HP)	025-22634	025-22634	025-22634
18	Thermostat, 4 Stage (3TH)	025-18752	025-18752	025-18752
19	Control, Temp. (FC)	025-18767	025-18767	025-18767
20	Thermostat, Low Ambient (2TH)	025-16363	025-16363	025-16363
21	Thermostat (6TH) (LCHA30, 40 Only)	025-20086	025-20086	025-20086
22	Thermostat (5TH)	025-20086	025-20086	025-20086
23	Thermostat (4TH)	025-20086	025-20086	025-20086
24	Switch, 3 Position (1SS)	024-11737	024-11737	024-11737
25	Switch, Spst. (2SS)	024-11736	024-11736	024-11736
26	Fuseholder (7, 8FU)	025-13991	025-13991	025-13991
27	Fuse, 15A (7FU)	025-14384	025-14384	025-14384
28	Fuse, 10A (8FU)	025-09662	025-09662	025-09662
29	Relay (5R)	024-12951	024-12951	024-12951
30	Timer, Repeat Cycle (1TR)	025-20058	025-20058	025-20058
31	Block, Terminal (3TB) (14 Req'd)	025-20945	025-20945	025-20945
32	Block, Terminal End (3TB)	025-20946	025-20946	025-20946
33	Relay (2R)	024-17093	024-17093	024-17093
34	Contactor (2M) LCHA20 LCHA30 LCHA40	024-19171 024-19867 024-18911	024-21071 001 024-21071 003 024-19171	024-21071 001 024-21071 003 024-19171
35	Block, Terminal (1TB)	025-18807	025-18807	025-18807
36	Contactor (1M) LCHA20 LCHA30 LCHA40	024-20646 001 024-18977 024-20487	024-21071 002 024-21071 004 024-20646 001	024-21071 002 024-21071 004 024-20487
37	Contactor (7M) (LCHA30, 40 Only)	024-18496	024-18496	024-18496
38	Housing, Elec. (1 Rec'p)	025-21191	025-21191	025-21191
39	Contactor (5M, 6M, 8M)	024-18496	024-18496	024-18496

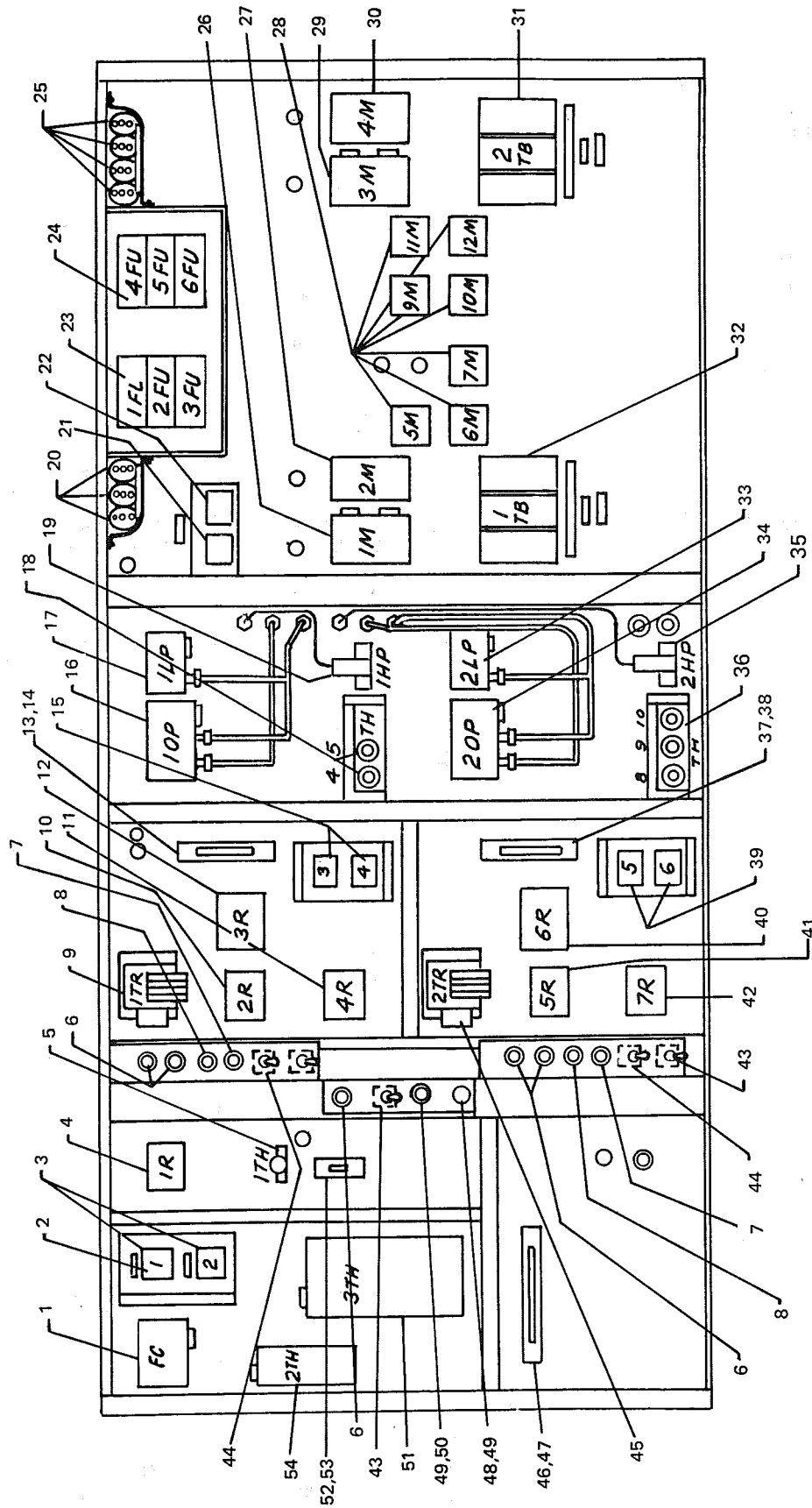


FIG. 6 - CONTROL PANEL - LCHA50

Item No.	Description	Part No.
1	Control, Temp. (FC)	025-18767
2	Plug, Elec. (1 Plg.)	025-21192
3	Housing, Elec. (1, 2 Rec'p)	025-21191
4	Relay (1R)	024-11655
5	Thermostat (1TH)	025-17622
6	Light, Pilot, Red (1L, 3L)	025-12095
7	Light, Pilot, Amber (2L, 7L)	025-13088
8	Light, Pilot, Clear (4L, 9L)	025-14049
9	Timer, Repeat Cycle (1TR)	025-20058
10	Relay (2R)	024-17093
11	Relay (4R)	024-11784
12	Relay (3R)	024-17093
13	Block, Terminal	025-20944
14	Block, Terminal, End	025-20946
15	Housing, Elec. (3, 4 Rec'p)	025-20787
16	Control, Press. (1OP)	025-18927
17	Control, Press (1LP)	025-22703-001
18	Thermostat (4, 5TH)	025-20086
19	Control, Press. (1HP)	025-22634
20	Capacitor (1, 2, 3RC)	024-20446
21	Housing, Elec. (7 Rec'p)	025-21191
22	Housing, Elec. (8 Rec'p)	025-21191
23	Fuse (1, 2, 3FU)	025-16402
	-17, -28, -63	025-05742
	-46, -50	025-16404
	-58	
24	Fuse (4, 5, 6FU)	025-09976
	-17, -28, -63	025-11910
	-46, -50	025-05742
	-58	024-20446
25	Capacitor (4, 5, 6, 7RC)	
26	Contactor (1M)	024-20646-001
	-17, -28, -63	024-21071-002
	-46, -50	024-21071-002
	-58	
27	Contactor (2M)	024-19171
	-17, -28, -63	024-21071-001
	-46, -50	024-21071-001
	-58	

Item No.	Description	Part No.
28	Contactor (5, 6, 7, 9, 10, 11, 12M)	024-18496
29	Contactor (3M)	024-18977
	-17, -28, -63	024-21071-004
	-46, -50	024-21071-004
	-58	
30	Contactor (4M)	024-19867
	-17, -28, -63	024-21071-003
	-46, -50	024-21071-003
	-58	
31	Block, Terminal (2TB)	025-18807
32	Block, Terminal (1TB)	025-18807
33	Control, Pressure (2LP)	025-22703-001
34	Control, Pressure (2OP)	025-18927
35	Control, Press. (2HP)	025-22634
36	Thermostat (8, 9, 10TH)	025-20086
37	Block, Terminal	025-20944
38	Block, Terminal, End	025-20946
39	Housing, Elec. (5, 6 Rec'p)	025-20787
40	Relay (6R)	024-17093
41	Relay (5R)	024-17903
42	Relay (7R)	024-11784
43	Switch (1SS)	024-11736
44	Switch (2SS, 3SS)	024-11737
45	Timer, Start Timer (2TR)	025-20059
46	Block, Terminal	025-20945
47	Block, Terminal, End	025-20946
48	Fuse (8FU)	025-09662
49	Fuseholder	025-13991
50	Fuse (7FU)	025-14384
51	Thermostat, 4 Stage (3TH)	025-18752
52	Block, Terminal	025-20944
53	Block, Terminal, End	025-20946
54	Thermostat (2TH)	025-16363

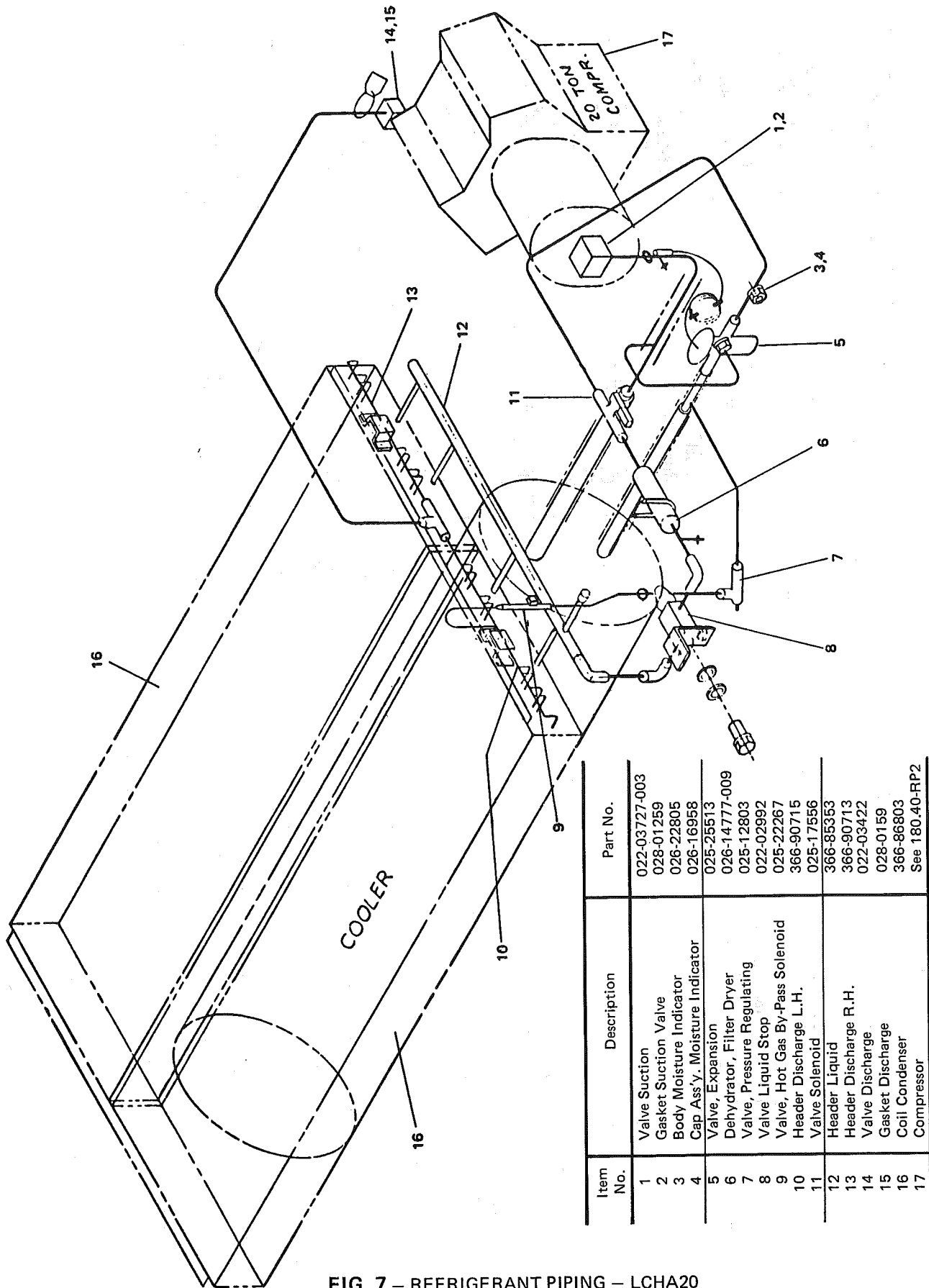


FIG. 7 – REFRIGERANT PIPING – LCHA20

Item No.	Description	Part No.
1	Valve Suction	022-03727-003
2	Gasket Suction Valve	028-01259
3	Body Moisture Indicator	026-22805
4	Cap Ass'y. Moisture Indicator	026-16958
5	Valve, Expansion	025-25513
6	Dehydrator, Filter Dryer	026-14777-009
7	Valve, Pressure Regulating	025-12803
8	Valve Liquid Stop	022-02992
9	Valve, Hot Gas By-Pass Solenoid	025-22267
10	Header Discharge L.H.	366-90715
11	Valve Solenoid	025-17556
12	Header Liquid	366-85353
13	Header Discharge R.H.	366-90713
14	Valve Discharge	022-03422
15	Gasket Discharge	028-0159
16	Coil Condenser	366-86803
17	Compressor	See 180.40-RP2

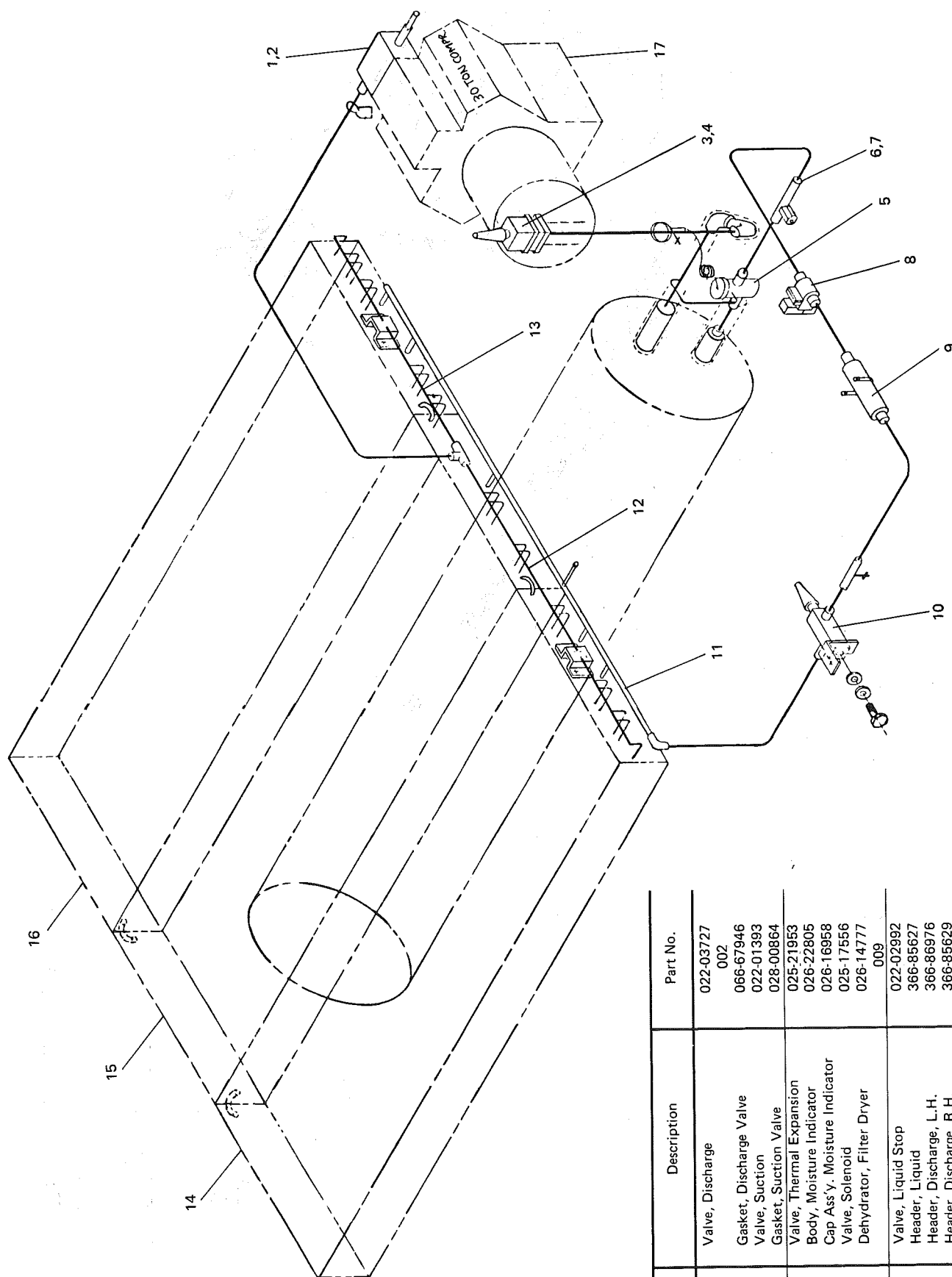
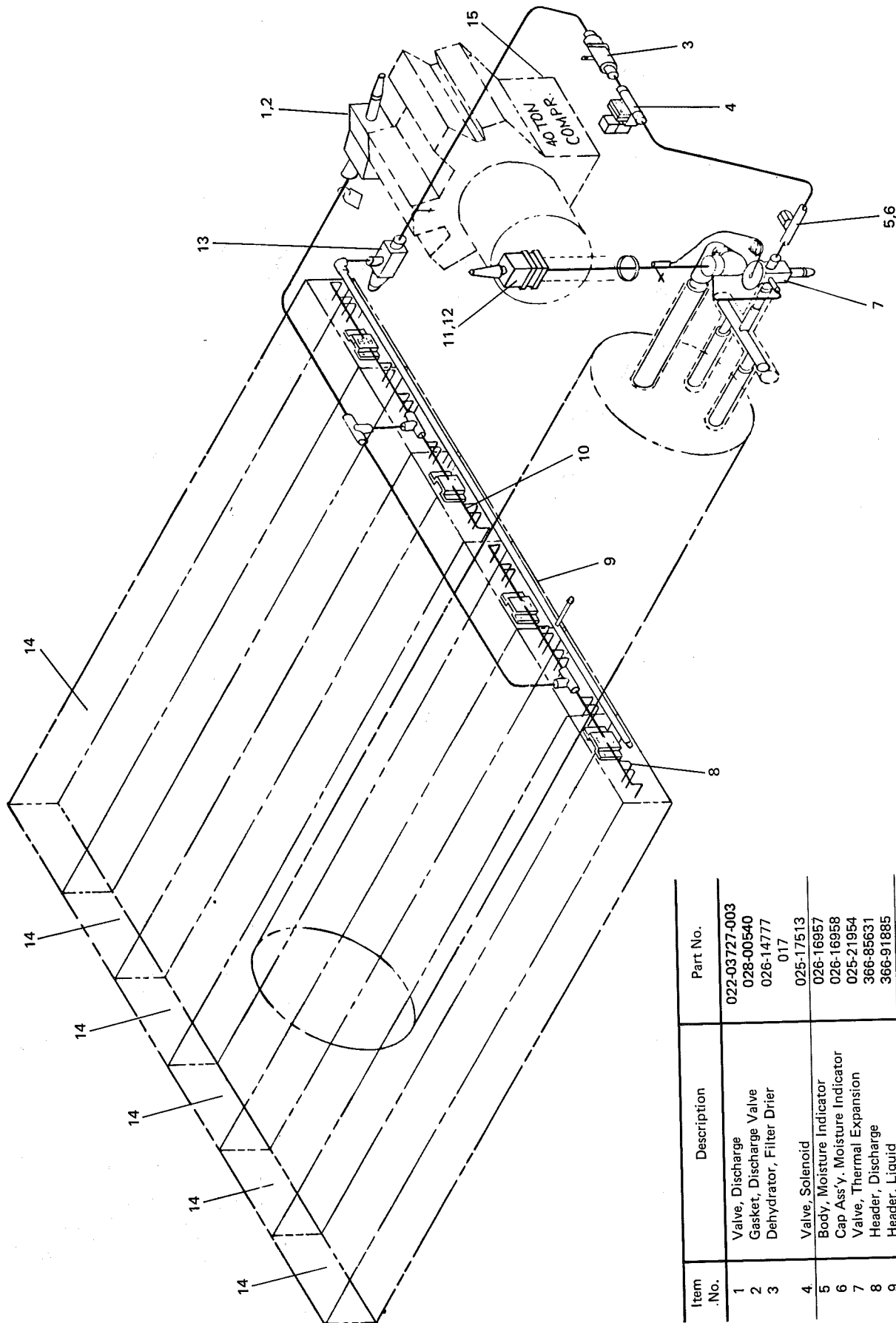


FIG. 8 — REFRIGERANT PIPING — LCHA30

BORG-WARNER AIR CONDITIONING, INC.

Item No.	Description	Part No.
1	Valve, Discharge	022-03727
2	Gasket, Discharge Valve	002
3	Valve, Suction	066-67946
4	Gasket, Suction Valve	022-01393
5	Valve, Thermal Expansion	028-00864
6	Body, Moisture Indicator	025-21953
7	Cap Ass'y, Moisture Indicator	026-22805
8	Valve, Solenoid	026-16958
9	Dehydrator, Filter Dryer	025-17556
10		026-14777
11		009
12	Valve, Liquid Stop	022-02992
13	Header, Liquid	366-85627
14	Header, Discharge, L.H.	366-86976
15	Header, Discharge, R.H.	366-86976
16	Coil, Condenser, L.H.	366-86804
17	Coil, Condenser, Center	366-86805
	Coil, Condenser, R.H.	366-86806
	Compressor, 6 Cyl. Model S	See 180.40-RP2



Item No.	Description	Part No.
1	Valve, Discharge	022-03727-003
2	Gasket, Discharge Valve	028-00540
3	Dehydrator, Filter Drier	026-14777 017
4	Valve, Solenoid	025-17513
5	Body, Moisture Indicator	026-16957
6	Cap Ass'y, Moisture Indicator	026-16958
7	Valve, Thermal Expansion	025-21954
8	Header, Discharge	366-85631
9	Header, Liquid	366-91885
10	Header, Discharge	366-85631
11	Valve, Suction	022-01394
12	Gasket, Suction Valve	028-00864
13	Valve, Liquid Stop	025-10510
14	Coil, Condenser	366-86807
15	Compressor, 8 Cyl. Model S	See 180.4D-RP2

FIG. 9 — REFRIGERANT PIPING — LCHA40

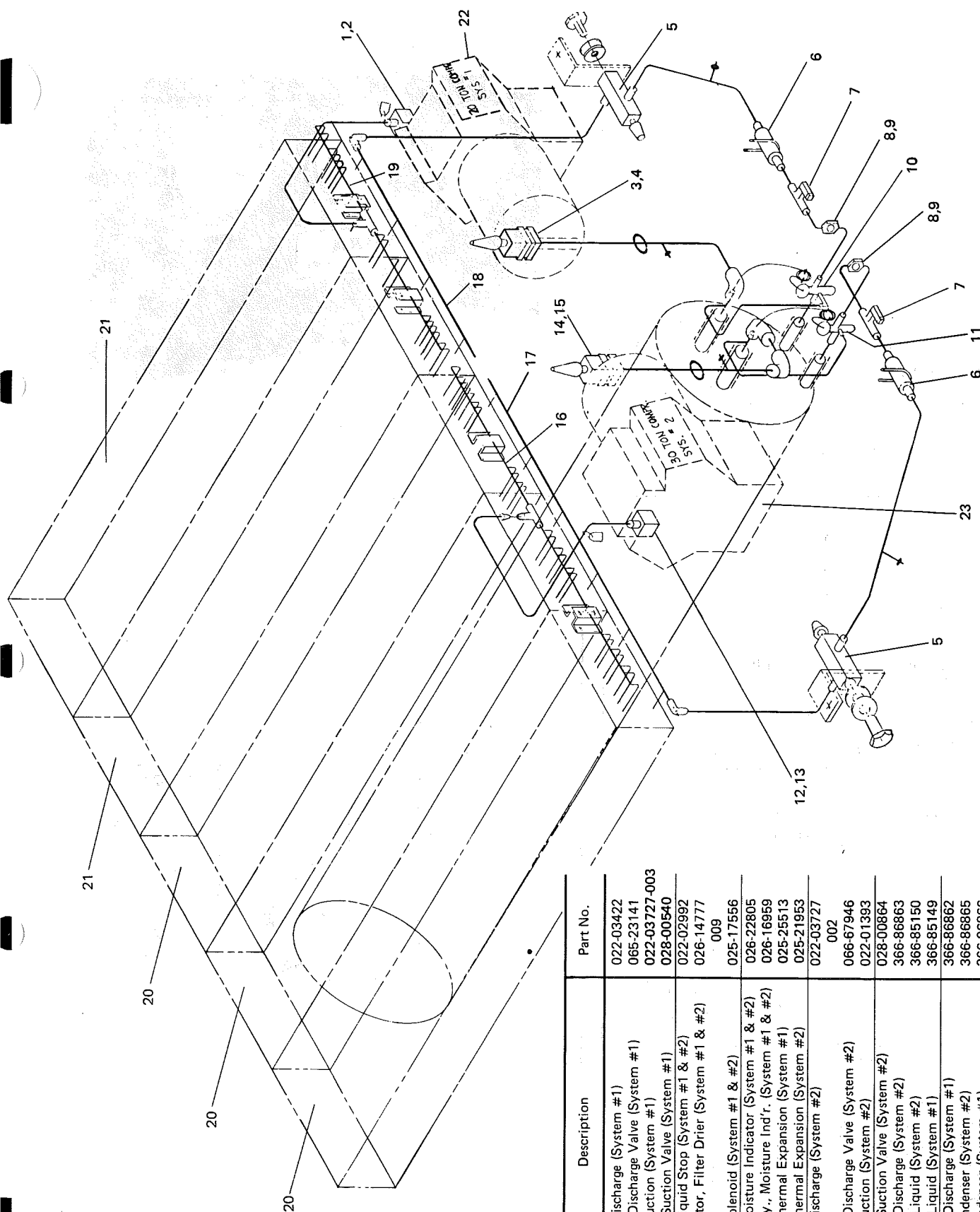


FIG. 10 — REFRIGERANT PIPING — LCHA50

BORG-WARNER AIR CONDITIONING, INC.

Item No.	Description	Part No.
1	Valve, Discharge (System #1)	022-03422
2	Gasket, Discharge Valve (System #1)	065-23141
3	Valve, Suction (System #1)	022-03727-003
4	Gasket, Suction Valve (System #1)	028-00540
5	Valve, Liquid Stop (System #1 & #2)	022-02992
6	Dehydrator, Filter Drier (System #1 & #2)	026-14777 009
7	Valve, Solenoid (System #1 & #2)	025-17556
8	Body, Moisture Indicator (System #1 & #2)	026-22805
9	Cap Ass'y., Moisture Ind'r. (System #1 & #2)	026-16959
10	Valve, Thermal Expansion (System #1)	025-25513
11	Valve, Thermal Expansion (System #2)	025-21953
12	Valve, Discharge (System #2)	022-03727 002
13	Gasket, Discharge Valve (System #2)	066-67946
14	Valve, Suction (System #2)	022-01393
15	Gasket, Suction Valve (System #2)	028-00864
16	Header, Discharge (System #2)	366-86863
17	Header, Liquid (System #2)	366-85150
18	Header, Liquid (System #1)	366-85149
19	Header, Discharge (System #1)	366-86862
20	Coil, Condenser (System #2)	366-86865
21	Coil, Condenser (System #1)	366-86866
22	Compressor, 4 Cyl. Model S	See 180.40-RP2
23	Compressor, 6 Cyl. Model S	See 180.40-RP2

Item No.	Description	Part No.
1	Gauge, Discharge Pressure	026-14366
2	Gauge, Suction Pressure	026-14367
3	Gauge, Oil Pressure	026-18764
4	Valve, Gauge	022-04302

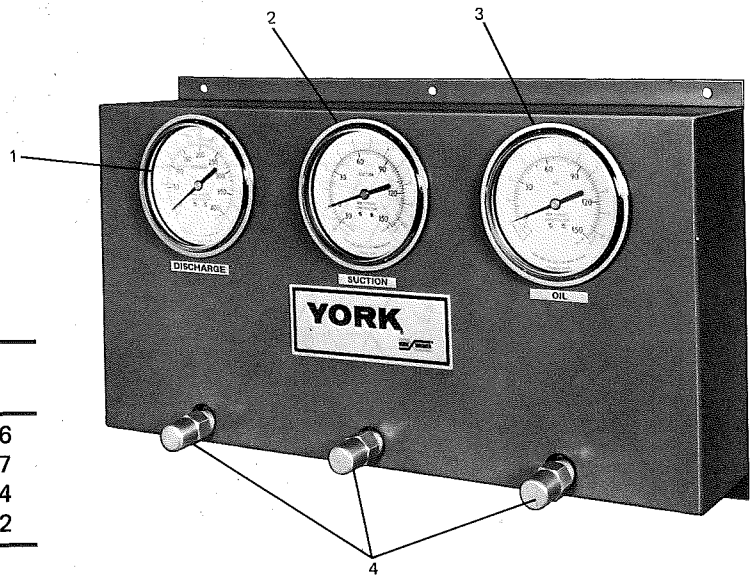
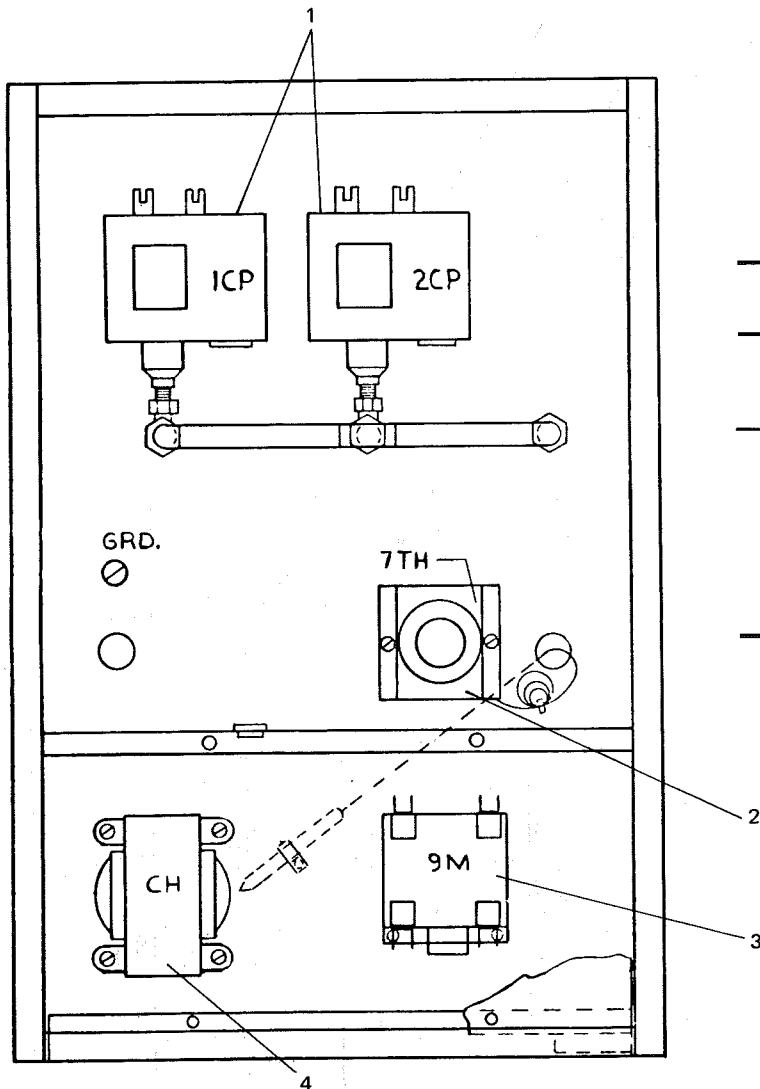
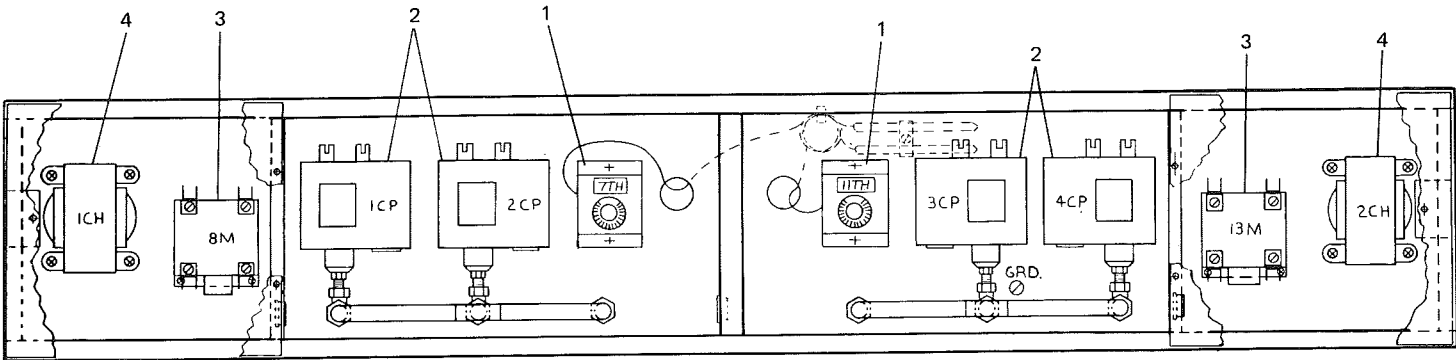


FIG. 11 – GAUGE KIT



Item No.	Description	Part No.
1	Control, Pressure	025-21469
2	Thermostat	025-20086
3	Contactator	024-18496
4	Choke Coil	
	200-3-60	025-20704 005
	230-3-60	
	220-3-50	
	460-3-60	025-20704 006
	575-3-60	
	380/415-3-50	

FIG. 12 – LOW AMBIENT KIT – LCHA20, 30, 40



Item No.	Description	Part No.
1	Thermostat	025-20086
2	Control, Pressure	025-21469
3	Contactor	024-18496
4	Choke Coil	
	200-3-60 } 230-3-60 } 220-3-50 }	325-20704 005
	460-3-60 } 575-3-60 } 380/415-3-50 }	325-20704 006

FIG. 13 – LOW AMBIENT KIT – LCHA50

COMPRESSOR MOTOR PROTECTOR—025-20791001

Control Transformers		
Primary Voltage	Part No.	
	LCHA20, 30, 40	LCHA50
200 - 60	025-12809	025-12809
220/230 - 60	025-15368	025-15368
380/400/415 - 50	025-16802	025-16802
575 - 60	025-16801	025-15368

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