

YORK®

PACKAGED LIQUID CHILLERS AIR COOLED—RECIPROCATING HERMETIC

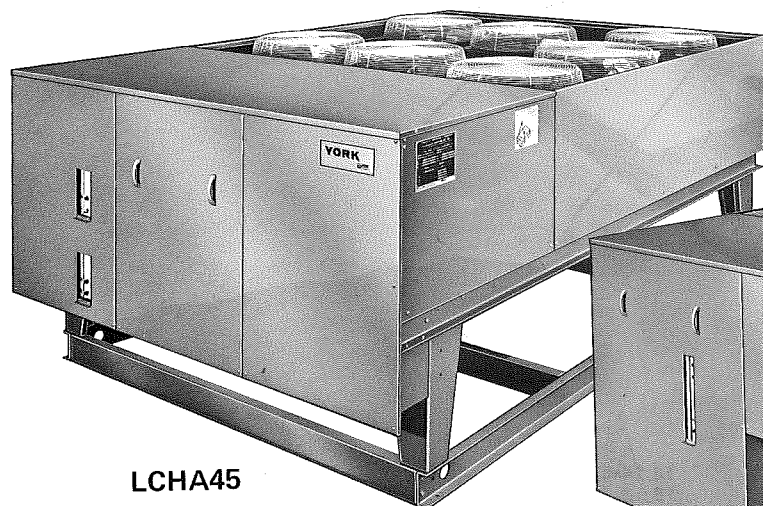
RENEWAL PARTS

Supersedes: Nothing

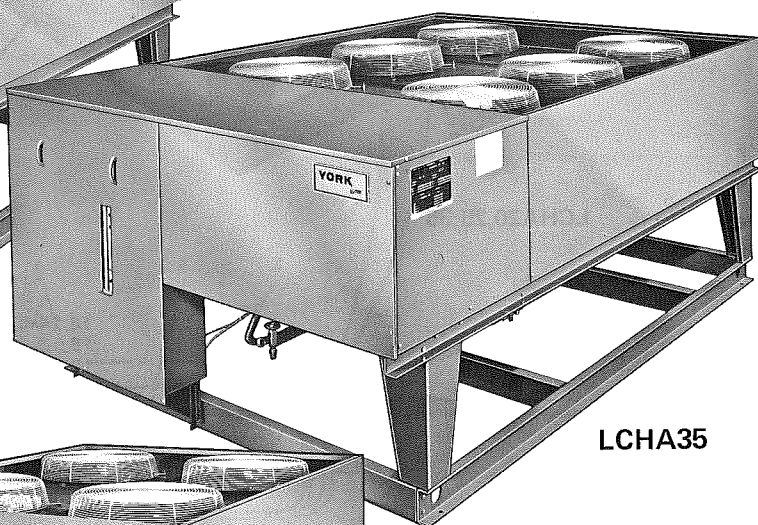
1080

Form 150.40-RP7

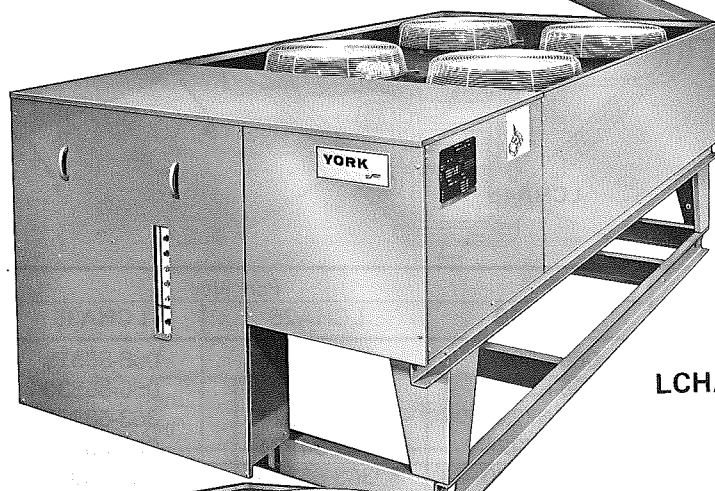
MODEL LCHA20, 25, 35, 45 STYLE F



LCHA45



LCHA35



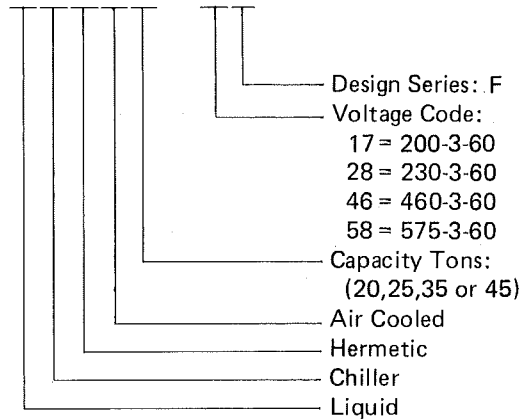
LCHA25

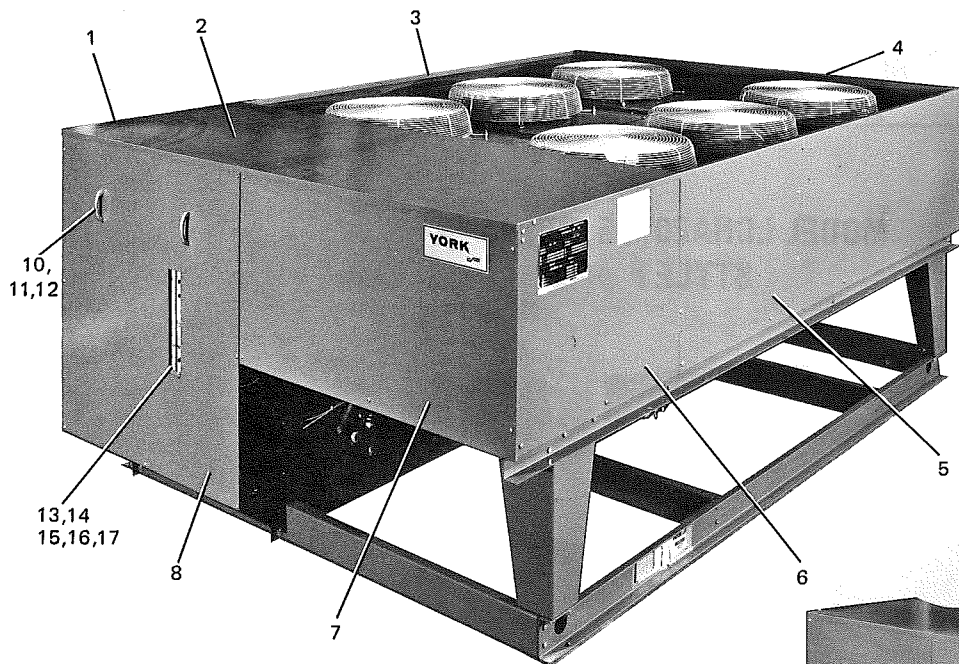


LCHA20

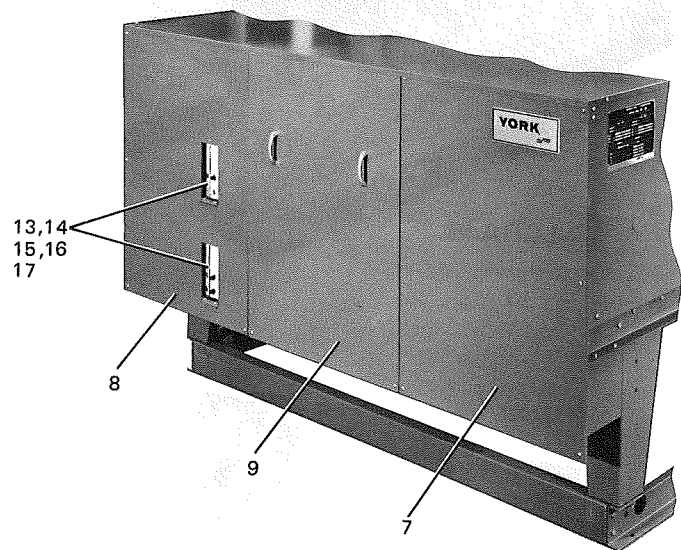
NOMENCLATURE

L C H A 25 - 28 F





LCHA20,25,35

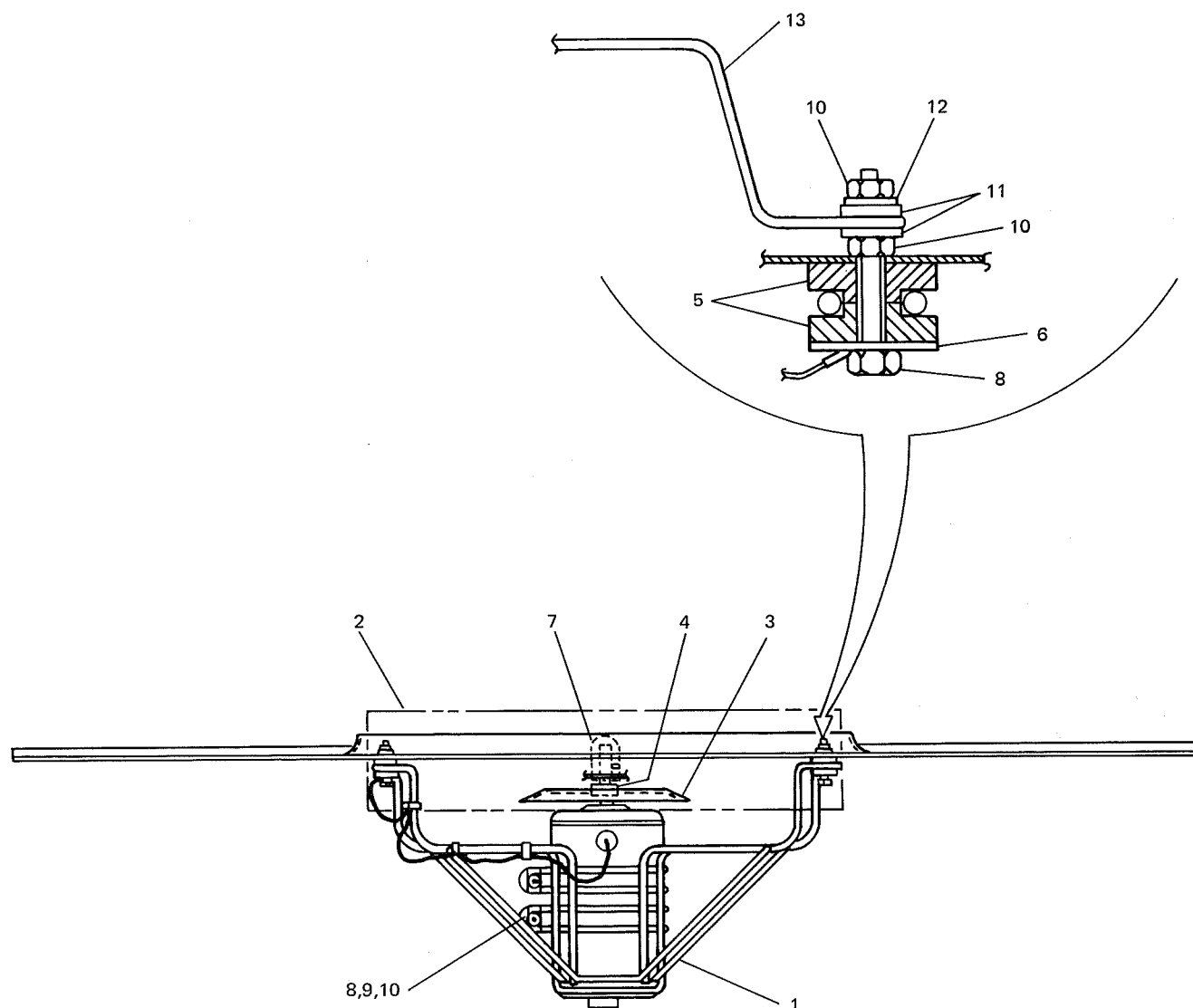


LCHA45

Item No.	Description	Part No.			
		LCHA20	LCHA25	LCHA35	LCHA45
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	363-68333	366-86907
4	Panel, End	063-67224	062-94531	063-68383	066-86915
5	Panel, Side (R.H.)	363-67230	363-66866	363-68330	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.)	366-85267	366-85564	366-85565	366-84944
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)	021-01136	021-01136	021-01136	021-01136
13	Door, Plexiglas	028-10082	028-10082	028-10082	028-10079
14	Handle	066-83927	066-83927	066-83927	066-84935
15	Screw	021-10713	021-10713	021-10713	021-13725
16	Nut, Hex	021-08282	021-08282	021-08282	021-08282
17	Lockwasher	021-11533	021-11533	021-11533	021-11533
18*	Flow Switch	024-15793	024-15793	024-15793	024-15793

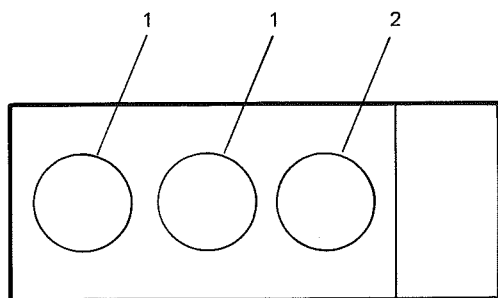
* Not Shown

FIG. 1— EXTERIOR COMPONENTS

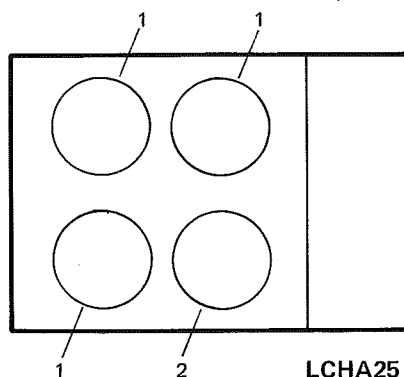


Item No.	Description	Part No.
1	Bracket, Fan Motor	026-17579
2	Fan Disc	026-21917
3	Shield, Rain	062-30549
4	Grommet, Motor Shaft	028-04209
5	Grommet, Motor Mounting (8 Per Fan)	028-04210
6	Washer, Flat	021-12555
7	Cap, Hub	028-07364
8	Screw 1/4"—20 x 1-3/4"	021-07127
9	Lockwasher	021-03233
10	Nut, Hex 1/4"—20	021-00451
11	Washer, Flat	021-01248
12	Lockwasher	021-01148
13	Fan Guard	026-19807

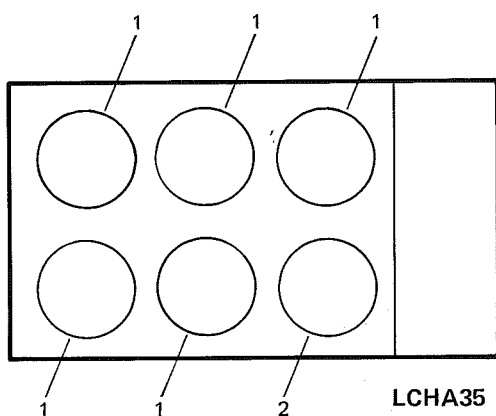
FIG. 2—FAN COMPONENTS



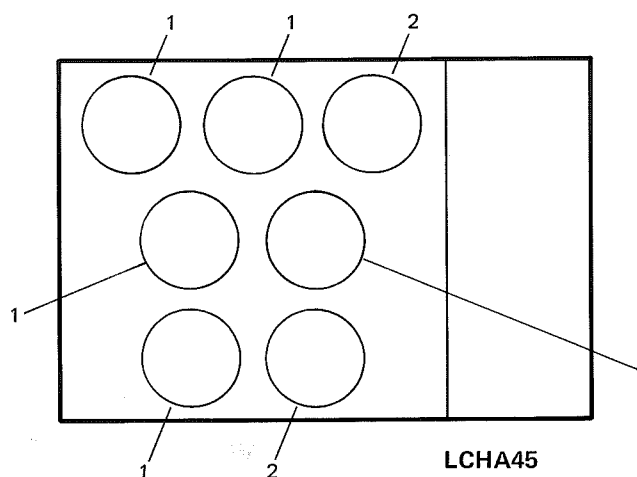
LCHA20



LCHA25



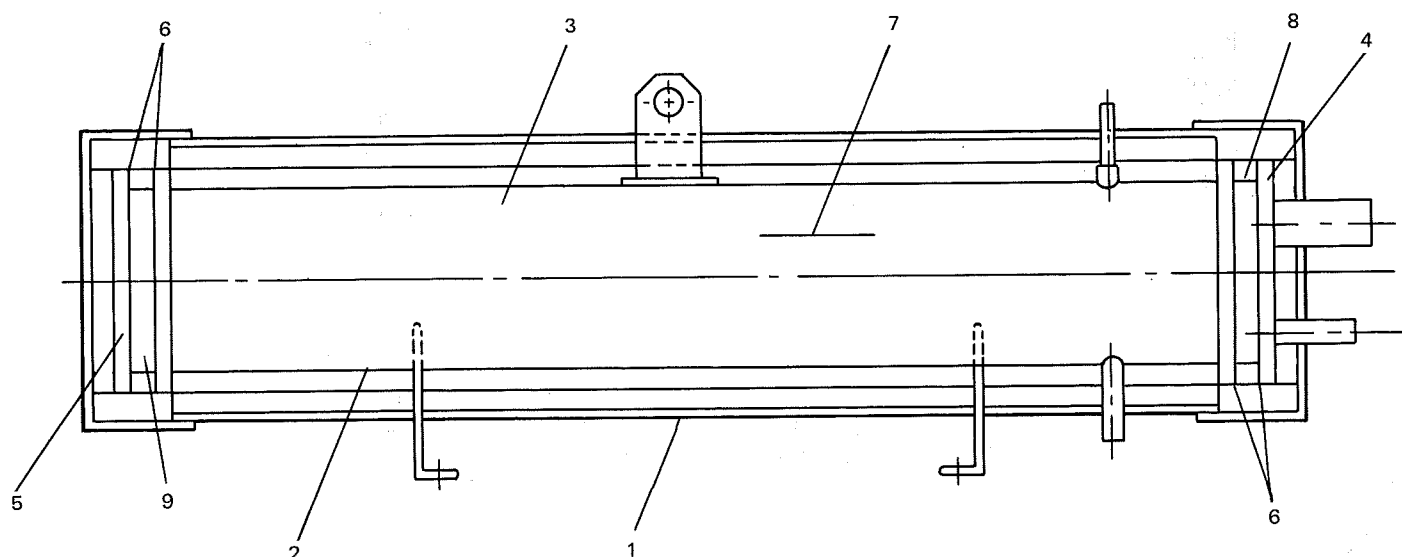
LCHA35



LCHA45

Model	Unit Voltage	Fan Position	Motor Part Number
LCHA 20	200/230-3-60	1	024-18396
		2	024-19879
	460-3-60	1	024-18397
		2	024-19878
	575-3-60	1	024-18397
		2	024-19878
LCHA 25	200/230-3-60	1	024-18396
		2	024-19879
	460-3-60	1	024-18397
		2	024-19878
	575-3-60	1	024-18397
		2	024-19878
LCHA 35	200/230-3-60	1	024-18396
		2	024-19879
	460-3-60	1	024-18397
		2	024-19878
	575-3-60	1	024-18397
		2	024-19878
LCHA 45	200/230-3-60	1	024-18396
		2	024-19879
	460-3-60	1	024-18397
		2	024-19878
	575-3-60	1	024-18397
		2	024-19878

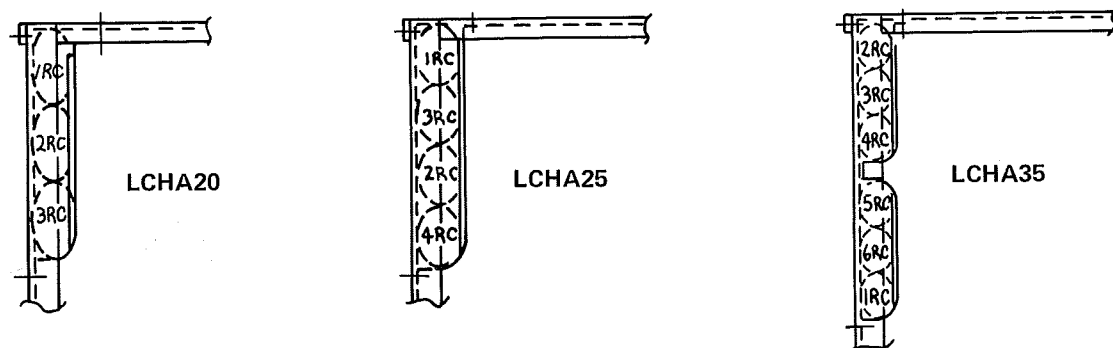
FIG. 3—FAN MOTORS



Item No.	Description	Part No.			
		LCHA20	LCHA25	LCHA35	LCHA45
1	Cooler, Complete (Includes Insulation, Heater & Wrapper)	366-83176	366-83177	366-83178	366-83179
2	Cooler, Less Insulation, Heater & Wrapper	366-83167	366-83168	366-83175	366-83169
3	Tube No. Req'd.	066-55360 108	066-55359 134	066-55359 216	066-55360 215
4	Head, Front (Inlet End)	366-85289	366-85290	366-85291	366-84440
5	Head, Rear (Outlet End)	366-66425	366-66424	366-65545	366-65545
6	Gasket, Head and Pass Baffle (2 Req'd./Head)	066-8715A	066-87155	066-87031	066-87031
7	Heater	025-17897	025-17897	025-17898	025-17898
8	Baffle, Pass (Front)	066-55343	066-55345	066-55347	066-55826
9	Baffle, Pass (Rear)	066-55344	066-55346	066-51902	066-55827
10*	Spring, Turbulator No. Req'd.	066-69902 44	066-69901 56	066-69901 86	066-69902 85
11*	Washers (Head Gasket) No. Req'd.	021-15676 32	021-15676 32	021-15676 32	021-15676 32

*Not Shown

FIG. 4 — COOLER



Capacitor, Fan	
LCHA20 (1RC, 2RC, 3RC)	024-20446
LCHA25 (1RC, 2RC, 3RC, 4RC)	024-20446
LCHA35 (1RC, 2RC, 3RC, 4RC, 5RC, 6RC)	024-20446

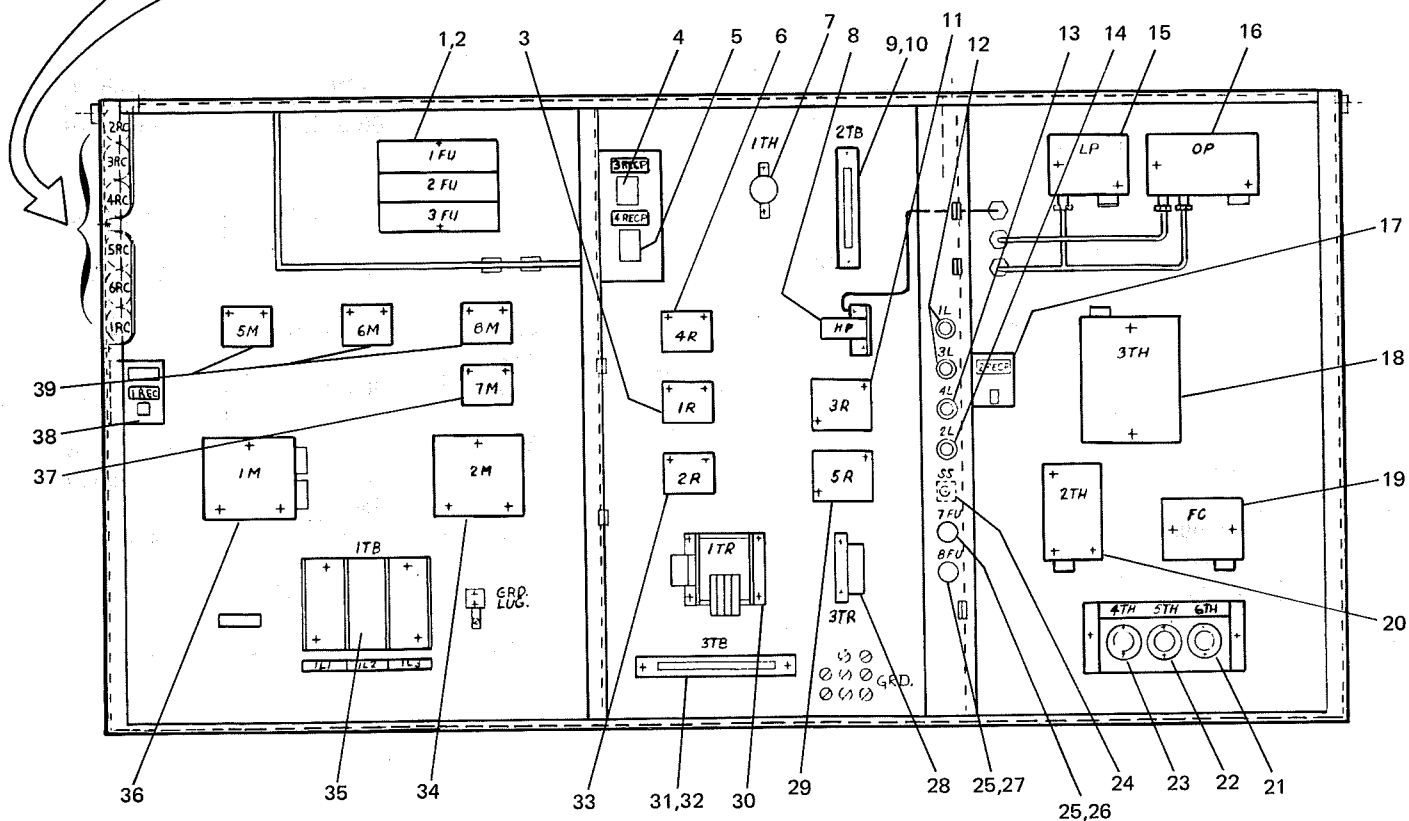


FIG. 5—CONTROL PANEL — LCHA20, LCHA25, LCHA35

Item No.	Description	Part No.		
		-17F, -28F, -63F	-46F, -50F	-58F
1	Fuse (1FU, 2FU, 3FU) LCHA20 LCHA25 LCHA35	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)	024-11655	024-11655	024-11655
7	Thermostat (1TH)	025-17622	025-17622	025-17622
8	Control, Pressure (HP)	025-20054	025-20054	025-20054
9	Block, Terminal (2TB) (13 Req'd)	025-20944	025-20944	025-20944
10	Block, Terminal End (2TB)	025-20946	025-20946	025-20946
11	Relay (3R)	024-11784	024-11784	024-11784
12	Light, Pilot, Red (1L, 3L)	025-12095	025-12095	025-12095
13	Light, Pilot, Clear (4L)	025-14049	025-14049	025-14049
14	Light, Pilot, Amber (2L)	025-13088	025-13088	025-13088
15	Control, Pressure (LP)	025-17027 003	025-17027 003	025-17027 003
16	Control, Pressure (OP)	025-18927	025-18927	025-18927
17	Housing, Elec. (2 Rec'p)	025-21191	025-21191	025-21191
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	025-16363	025-16363	025-16363
21	Thermostat (6TH) (LCHA25, 35 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 (SS)	024-11737	024-11737	024-11737
25	Fuseholder (7, 8FU)	025-13991	025-13991	025-13991
26	Fuse, 15A (7FU)	025-14384	025-14384	025-14384
27	Fuse, 10A (8FU)	025-09662	025-09662	025-09662
28	Timer, Start (3TR)	024-18220	024-18220	024-18220
29	Relay (5R)	024-11784	024-11784	024-11784
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)	024-14519	024-14519	024-14519
34	Contactor (2M) LCHA20 LCHA25 LCHA35	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 LCHA25 LCHA35	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) (LCHA25, 35 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
*	Sensor for 3TH	025-17896 -001	025-17896 -001	025-17896 -001

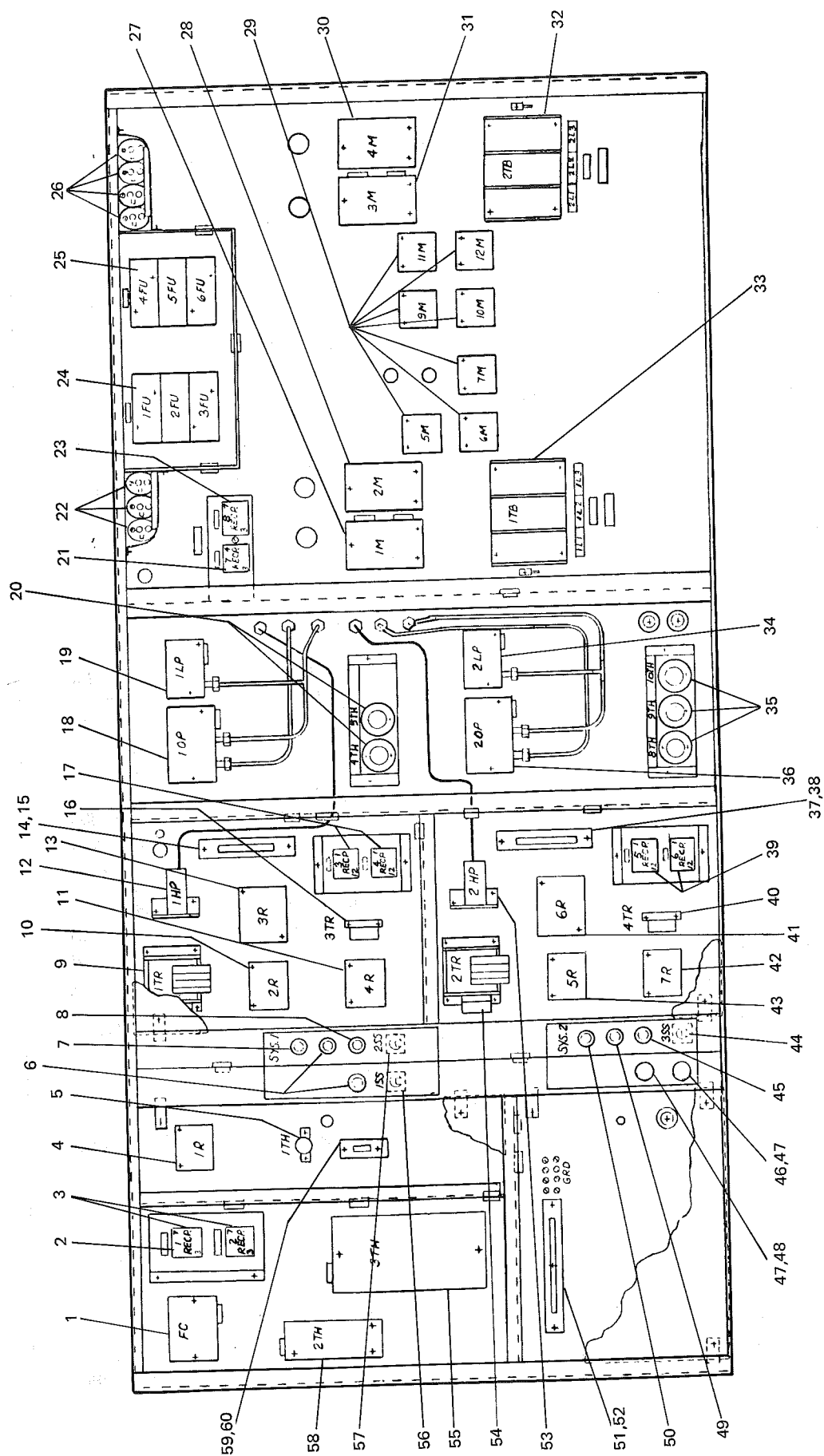
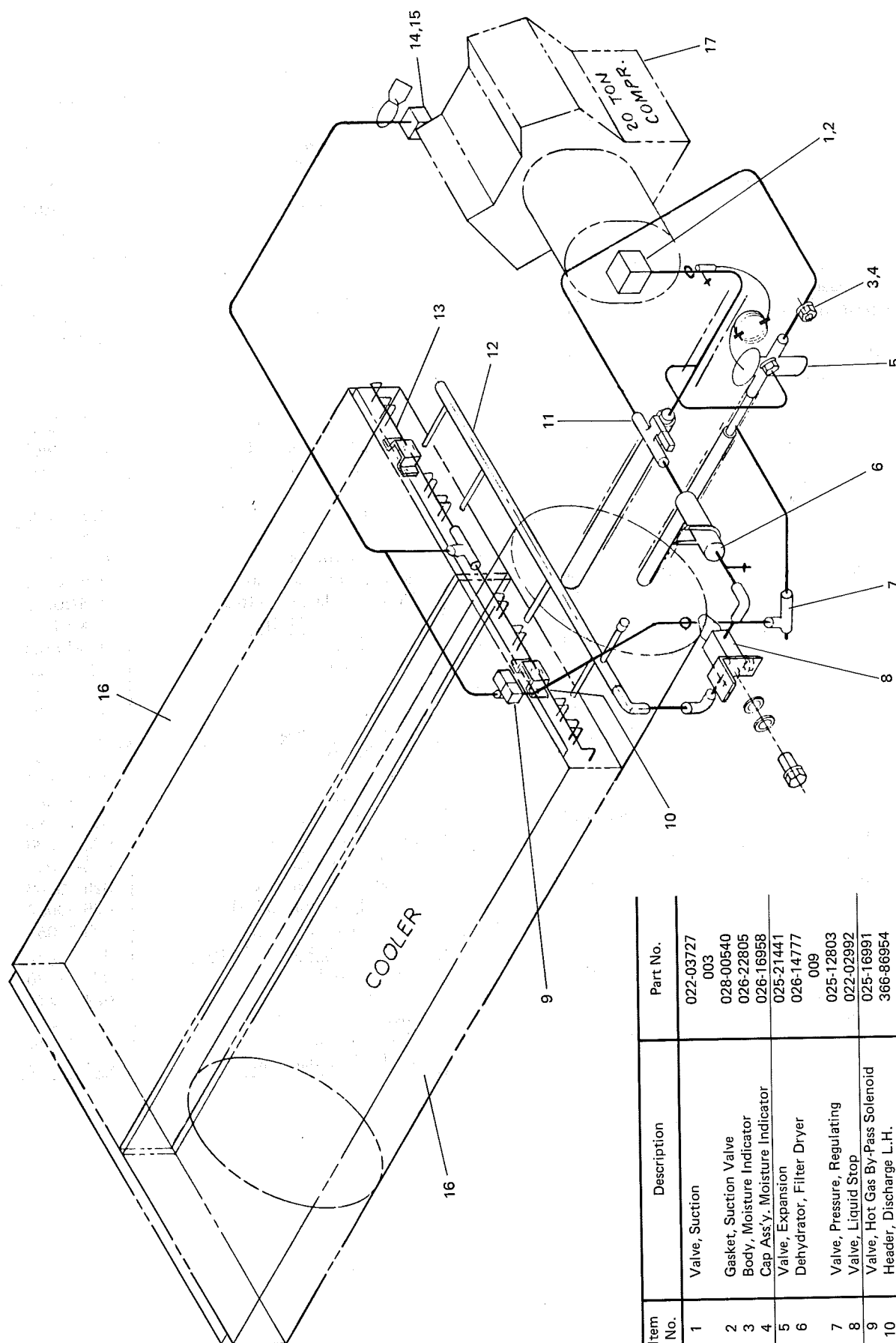


FIG. 6—CONTROL PANEL—LCHA45

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)	025-13088
8	Light, Pilot, Clear (4L)	025-14049
9	Timer, Repeat Cycle (1TR)	025-20058
10	Relay (2R)	024-14519
11	Relay (4R)	024-11655
12	Control, Press. (1HP)	025-20054
13	Relay (3R)	024-11784
14	Block, Terminal	025-20944
15	Block, Terminal, End	025-20946
16	Timer (3TR)	024-18220
17	Housing, Elec. (3, 4 Rec'p)	025-20787
18	Control, Press. (1OP)	025-18927
19	Control, Press (1LP)	025-17027 003
20	Thermostat (4, 5TH)	025-20086
21	Housing, Elec. (7 Rec'p)	025-20963
22	Capacitor (1, 2, 3RC)	024-20446
23	Housing, Elec. (8 Rec'p.)	025-21191
24	Fuse (1, 2, 3FU) -17, -28, -63 -46, -50 -58	025-16402 025-05742 025-16404
25	Fuse (4, 5, 6FU) -17, -28, -63 -46, -50 -58	025-09976 025-11910 025-05742 024-20446
26	Capacitor (4, 5, 6, 7RC)	
27	Contactor (1M) -17, -28, -63 -46, -50 -58	024-20646 001 024-21071 002 024-21071 002
28	Contactor (2M) -17, -28, -63 -46, -50 -58	024-19171 024-21071 001 024-21071 002

Item No.	Description	Part No.
29	Contactor (5, 6, 7, 9, 10, 11, 12M)	024-18496
30	Contactor (4M) -17, -28, -63 -46, -50 -58	024-19867 024-21071 003 024-21071 003
31	Contactor (3M) -17, -28, -63 -46, -50 -58	024-18977 024-21071 004 024-21071 004
32	Block, Terminal (2TB)	025-18807
33	Block, Terminal (1TB)	025-18807
34	Control, Pressure (2LP)	025-17027 003
35	Thermostat (8, 9, 10TH)	025-20086
36	Control, Pressure (2OP)	025-18927
37	Block, Terminal	025-20944
38	Block, Terminal, End	025-20946
39	Housing, Elec. (5, 6 Rec'p)	025-20787
40	Timer, Start (4TR)	024-18220
41	Relay (6R)	024-11784
42	Relay (7R)	024-11655
43	Relay (5R)	024-14519
44	Switch (3SS)	024-11737
45	Light, Pilot, Clear	025-14049
46	Fuse (8FU)	025-09662
47	Fuseholder	025-13991
48	Fuse (7FU)	025-14384
49	Light, Pilot, Red	025-12095
50	Light, Pilot, Amber	025-13088
51	Block, Terminal	025-20945
52	Block, Terminal, End	025-20946
53	Control, Pressure (2HP)	025-20054
54	Timer, Start Timer (2TR)	025-20059
55	Thermostat, 4 Stage (3TH)	025-18752
56	Switch (1SS)	024-11736
57	Switch (2SS)	024-11737
58	Thermostat (2TH)	025-16363
59	Block, Terminal	025-20944
60	Block, Terminal, End	025-20946



Item No.	Description	Part No.
1	Valve, Suction	022-03727
2	Gasket, Suction Valve	003
3	Body, Moisture Indicator	028-00540
4	Cap Ass'y. Moisture Indicator	026-22805
5	Valve, Expansion	026-16958
6	Dehydrator, Filter Dryer	025-21441
7	Valve, Pressure, Regulating	026-14777
8	Valve, Liquid Stop	009
9	Valve, Hot Gas By-Pass Solenoid	025-12803
10	Header, Discharge L.H.	022-02992
11	Valve, Solenoid	025-16991
12	Header, Liquid	366-86954
13	Header, Discharge R.H.	025-17555
14	Valve, Discharge	366-85353
15	Gasket, Discharge Valve	366-85625
16	Coil, Condenser	022-03422
17	Compressor, 4 Cyl. Model S	065-23141
		366-86803
		See 180.40-RP1

FIG. 7—REFRIGERANT PIPING — LCHA20

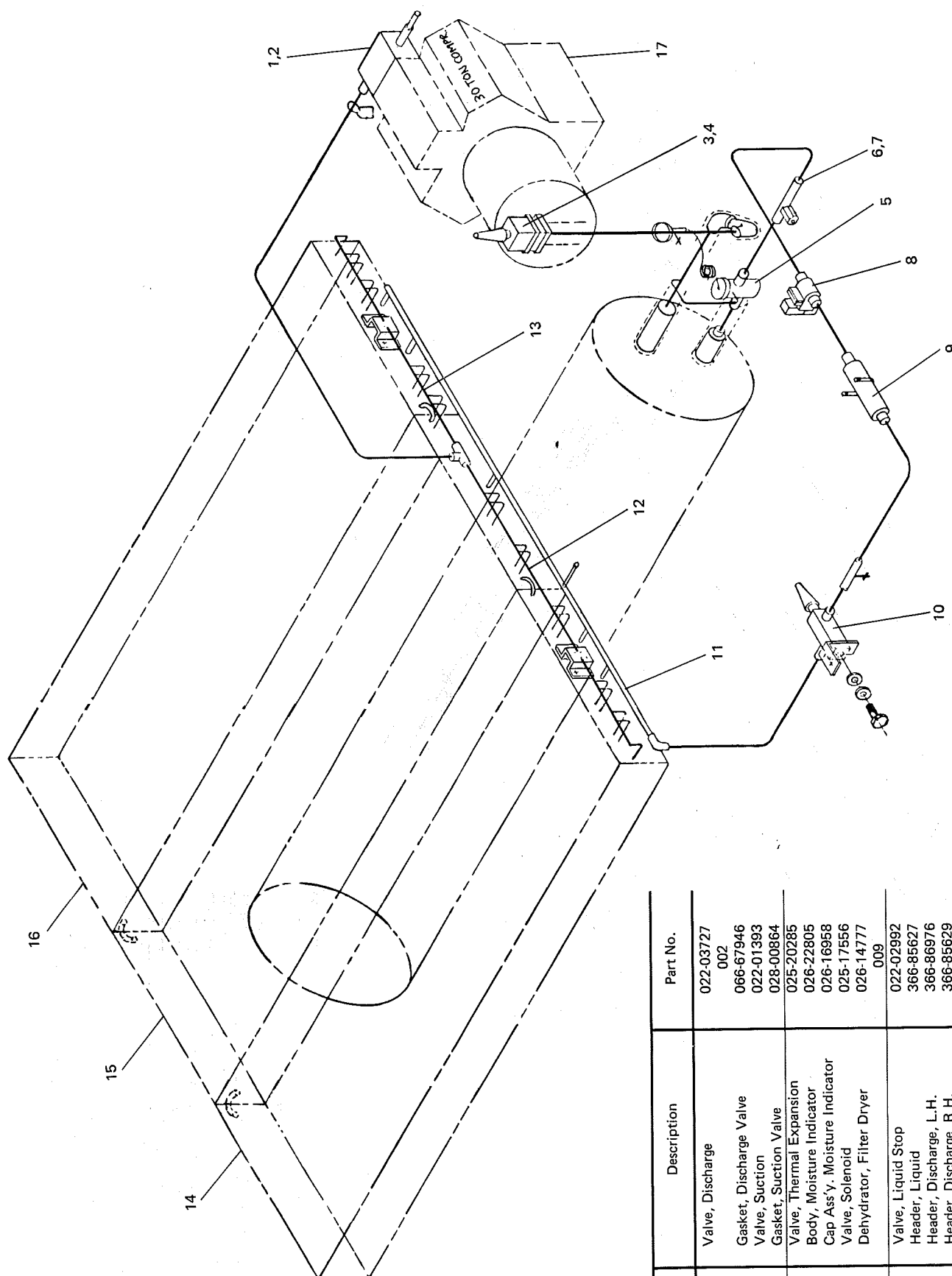
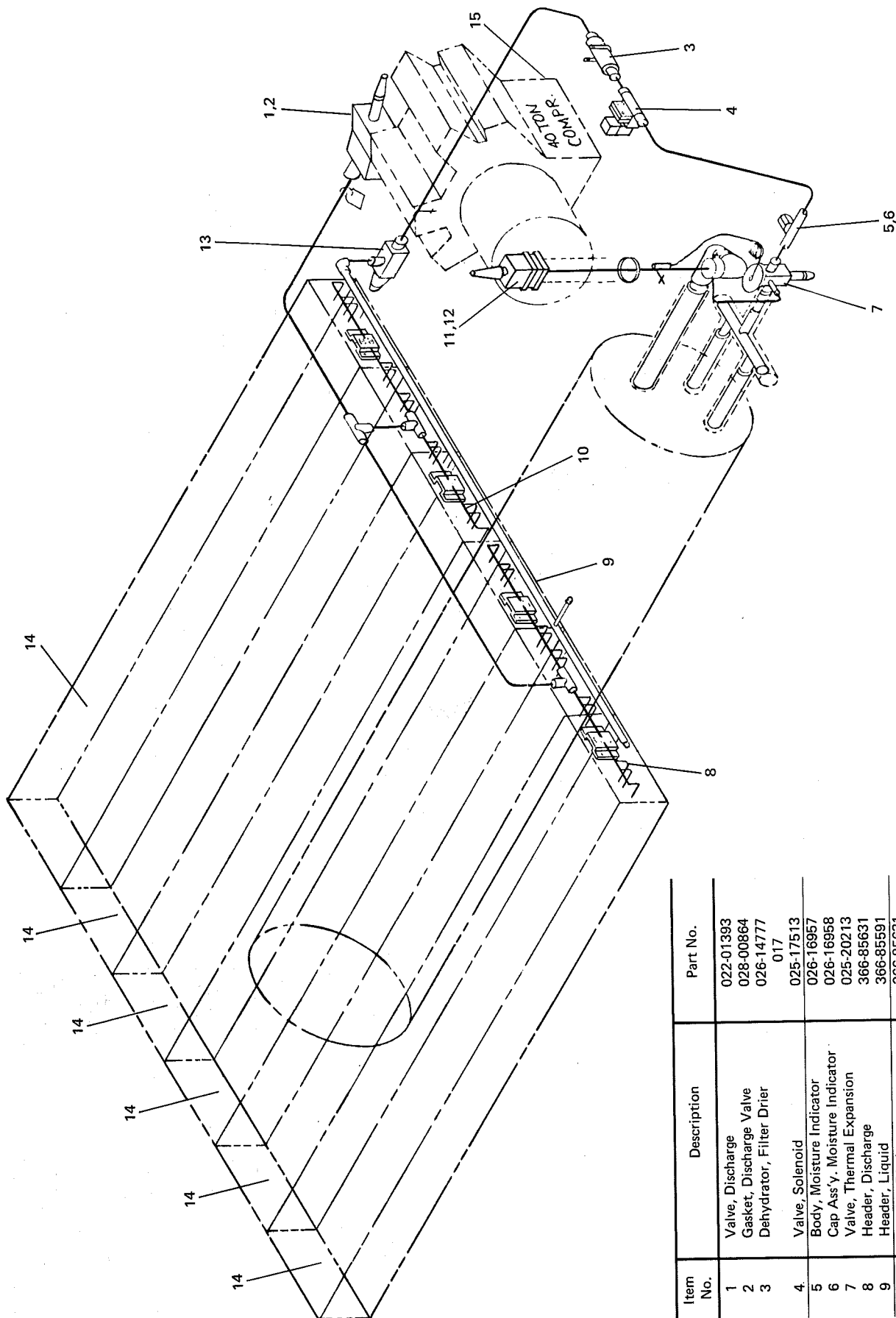


FIG. 8— REFRIGERANT PIPING — LCHA25

Item No.	Description	Part No.
1	Valve, Discharge	022-03727 002
2	Gasket, Discharge Valve	066-67946
3	Valve, Suction	022-01393
4	Gasket, Suction Valve	028-00864
5	Valve, Thermal Expansion	025-20285
6	Body, Moisture Indicator	026-22805
7	Cap Ass'y, Moisture Indicator	026-16958
8	Valve, Solenoid	025-17556
9	Dehydrator, Filter Dryer	026-14777 009
10	Valve, Liquid Stop	022-02992
11	Header, Liquid	366-85627
12	Header, Discharge, L.H.	366-86976
13	Header, Discharge, R.H.	366-85629
14	Coil, Condenser, L.H.	366-86804
15	Coil, Condenser, Center	366-86805
16	Coil, Condenser, R.H.	366-86806
17	Compressor, 6 Cyl. Model S	See 180.40-RP1



Item No.	Description	Part No.
1	Valve, Discharge	022-01393
2	Gasket, Discharge Valve	028-00864
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	025-20213
8	Header, Discharge	366-85631
9	Header, Liquid	366-85591
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	366-86307
15	Compressor, 8 Cyl. Model S	See 180.40-RP1

FIG. 9—REFRIGERANT PIPING — LCHA35

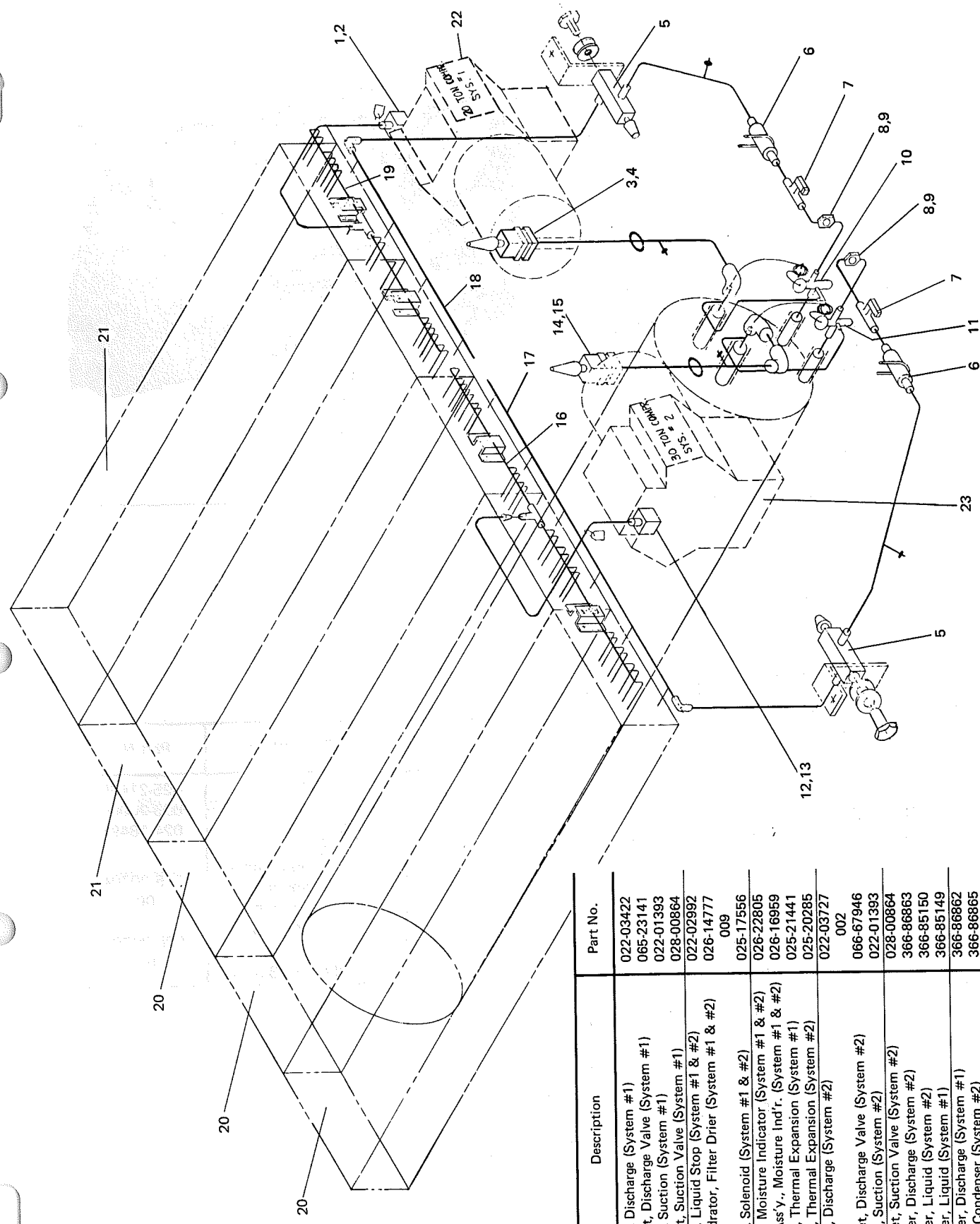


FIG. 10—REFRIGERANT PIPING – LCHA45

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)	022-01393
4	Gasket, Suction Valve (System #1)	028-00864
5	Valve, Liquid Stop (System #1 & #2)	022-02992
6	Dehydrator, Filter Drier (System #1 & #2)	026-14777
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)	025-21441
11	Valve, Thermal Expansion (System #2)	025-20285
12	Valve, Discharge (System #2)	022-03727
13	Gasket, Discharge Valve (System #2)	002
14	Valve, Suction (System #2)	066-67946
15	Gasket, Suction Valve (System #2)	022-01393
16	Header, Discharge (System #2)	028-00864
17	Header, Liquid (System #2)	366-86863
18	Header, Liquid (System #1)	366-85150
19	Header, Discharge (System #1)	366-85149
20	Coil, Condenser (System #2)	366-86862
21	Coil, Condenser (System #1)	366-86865
22	Compressor, 4 Cyl. Model S	366-86866
23	Compressor, 6 Cyl. Model S	See 180.40-RP1 See 180.40-RP1

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

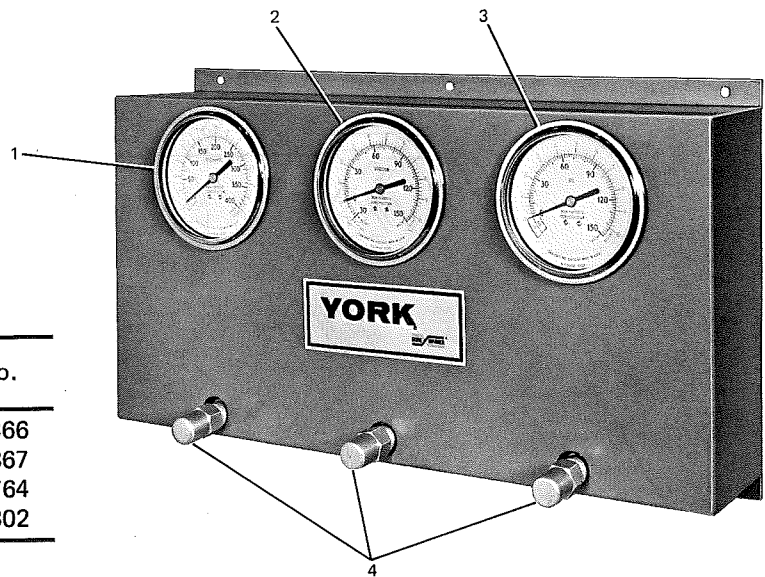
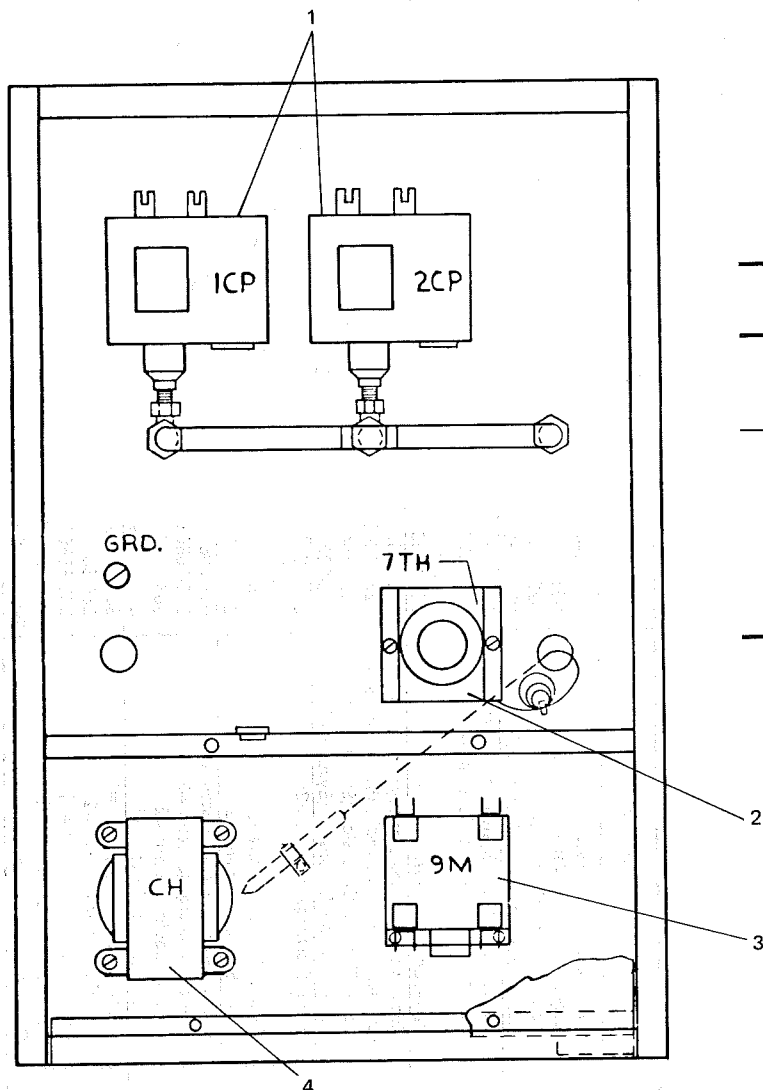
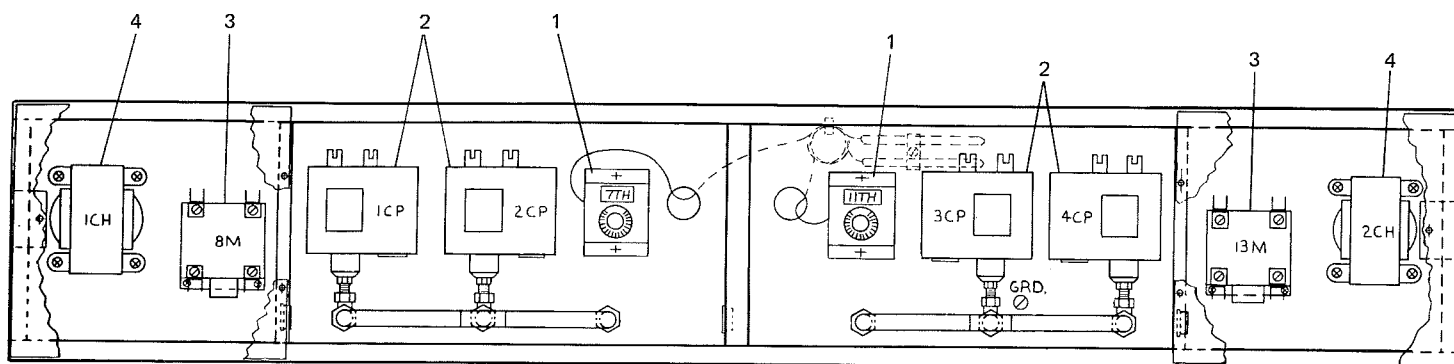


FIG. 11 – GAUGE KIT



Item No.	Description	Part No.
1	Control, Pressure	025-21469
2	Thermostat	025-20086
3	Contactors	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, 25, 35



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

FIG. 13 —LOW AMBIENT KIT — LCHA45

COMPRESSOR MOTOR PROTECTOR—025-20791001

Control Transformers		
Primary Voltage	Part No.	
	LCHA20, 25, 35	LCHA45
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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CODES: SN, RN

FORM 150.40-RP7



BorgWarner
Air Conditioning

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