

IF ANY WIRE IN THIS APPLIANCE IS REPLACED IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, TERMINATION AND INSULATION THICKNESS

WARNING - ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING.

J/P	JACKPLUG DESCRIPTION	KEY	COMPONENT
18	POWER EXHAUST HARNESS	A55	MAIN CONTROL BOARD
19	RELAY TO EXHAUST FANS	A86	CONTROL INVERTER
24	MOTOR, OUTDOOR FAN 1	A178	PANEL COMP 3&4, C3 2nd STAGE HEAT
47	MOTOR, OUTDOOR FAN 2	52	TRANSUDGER TANDEM COMPRESSOR STG 1
52	MOTOR, OUTDOOR FAN 2	52	TRANSUDGER TANDEM COMPRESSOR STG 2
86	OUTDOOR FANS 1	A186	CONTROL GENERAL PURPOSE GP3
87	OUTDOOR FANS 2	A187	CONTROL GENERAL PURPOSE GP3
106	MOTOR, OUTDOOR FAN 3	B1	COMPRESSOR 1
107	MOTOR, OUTDOOR FAN 4	B2	COMPRESSOR 2
108	MOTOR, OUTDOOR FAN 5	B3	MOTOR, BLOWER
109	MOTOR, OUTDOOR FAN 6	B4	MOTOR, OUTDOOR FAN 1
118	COMPRESSOR 3 AND 4, IN/OUT	B5	MOTOR, OUTDOOR FAN 2
119	COMPRESSOR 3 AND 4, IN/OUT	B10	MOTOR, EXHAUST FAN 1
132	POWER TO EXHAUST FAN MOTOR 1	B11	MOTOR, EXHAUST FAN 2
133	POWER TO EXHAUST FAN MOTOR 2	B20	COMPRESSOR 3
246	POWER TO VFD	B20	COMPRESSOR 4
247	VFD TO IMR	B21	MOTOR, OUTDOOR FAN 3
248	VFD CONTROL	B22	MOTOR, OUTDOOR FAN 4
259	BLOWER ECM MOTOR	B23	MOTOR, OUTDOOR FAN 5
263	HIGH AND LOW PRESSURE SWITCHES	B24	MOTOR, OUTDOOR FAN 6
264	BLOWER DECK AREA	C8	MOTOR, OUTDOOR FAN 1
285	CONTRACTORS AND RELAYS	C8	CAPACITOR, EXHAUST FAN 1
288	OUTDOOR FAN AREA	C8	CAPACITOR, EXHAUST FAN 2
289	24V POWER FROM TRANSFORMERS TO A55	CB18	CIRCUIT BREAKER T18
320	OD FAN CONTROL SET 1	F4	FUSE, MAIN UNIT
321	OD FAN CONTROL SET 2	F4	FUSE, MAIN UNIT
333	OD FAN TRANSUDGER INPUT	F6	FUSE, EXHAUST FAN
336	OD FAN CONTROL, B4	F10	FUSE, OUTDOOR FAN MOTOR
337	OD FAN CONTROL, B5	F30	FUSE, TRANSFORMER T29 PRIMARY
338	OD FAN CONTROL, B21	F31	FUSE, TRANSFORMER T29 SECONDARY
339	OD FAN CONTROL, B22	HR1	HEATER COMPRESSOR 1
340	OD FAN CONTROL, B23	HR2	HEATER COMPRESSOR 2
341	OD FAN CONTROL, B24	HR5	HEATER COMPRESSOR 3
342	COMPRESSOR PRESSURE TRANSDUCER STG 1	HR11	HEATER 1, COMPRESSOR 4
343	TEMPERATURE SENSOR COMPRESSOR 1	K1-1	JACK, GFI, RECEPTACLE
344	TEMPERATURE SENSOR COMPRESSOR 2	K2-1	CONTRACTOR, COMPRESSOR 1
345	TEMPERATURE SENSOR COMPRESSOR 3	K3-1	CONTRACTOR, COMPRESSOR 2
346	TEMPERATURE SENSOR COMPRESSOR 4	K4-1	CONTRACTOR, COMPRESSOR 3
347	TEMPERATURE SENSOR COMPRESSOR 4	K6&12	RELAY, EXHAUST FAN
348	CONTROL GENERAL PURPOSE GP3	K14&1	CONTRACTOR, COMPRESSOR 4
349	RELAY, GRANKCASE HEATER 1	K191-2	RELAY, GRANKCASE HEATER 1
350	RELAY, GRANKCASE HEATER 2	K20&4	RELAY, INVERTER
351	RELAY, INVERTER	K231-1,2	RELAY, CONTROL INVERTER
352	RELAY, CONTROL INVERTER	K233-2	RELAY, EXHAUST FAN 2
353	RELAY, EXHAUST FAN 2	K234-2	RELAY, GRANKCASE HEATER 3
354	RELAY, GRANKCASE HEATER 3	K117	SENSOR, OUTDOOR AIR
355	RELAY, GRANKCASE HEATER 4	K137	SENSOR, THERMISTOR 1, COMPRESSOR 1
356	RELAY, GRANKCASE HEATER 4	K138	SENSOR, THERMISTOR 2, COMPRESSOR 2
357	RELAY, GRANKCASE HEATER 4	K139	SENSOR, THERMISTOR 3, COMPRESSOR 3
358	RELAY, GRANKCASE HEATER 4	K140	SENSOR, THERMISTOR 4, COMPRESSOR 4
359	SWITCH, LIMIT HI PRESS COMPRESSOR 1	S5	SWITCH, LIMIT HI TEMP COMPRESSOR 1
360	SWITCH, LIMIT HI TEMP COMPRESSOR 2	S6	SWITCH, LIMIT HI TEMP COMPRESSOR 2
361	SWITCH, LIMIT HI TEMP COMPRESSOR 3	S11	SWITCH, LOW PRESS, LOW AMBIENT COMP 1
362	SWITCH, LIMIT HI TEMP COMPRESSOR 3	S28	SWITCH, LIMIT HI PRESS, LOW AMBIENT COMP 1
363	SWITCH, LIMIT HI TEMP COMPRESSOR 3	S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
364	SWITCH, LIMIT HI TEMP COMPRESSOR 3	S48	SWITCH, DISCONNECT
365	SWITCH, FREEZE STAT COMPRESS 1	S53	SWITCH, FREEZE STAT COMPRESS 1
366	SWITCH, FREEZE STAT COMPRESS 3	S85	SWITCH, FREEZE STAT COMPRESS 3
367	SWITCH, LOW PRESS, LOW AMBIENT W/ COMP 3	S97	SWITCH, LOW PRESS, COMP 1
368	SWITCH, LOW PRESS, LOW AMBIENT W/ COMP 3	S98	SWITCH, LOW PRESS, COMP 3
369	SWITCH, LOW PRESS, COMP 3	S117	SWITCH, GFI
370	SWITCH, GFI	S180	LIMIT, HIGH TEMP COMPRESSOR 4
371	LIMIT, HIGH TEMP COMPRESSOR 4	T5	TRANSFORMER, CONTROL
372	TRANSFORMER, CONTROL	T8	TRANSFORMER, OUTDOOR FAN MOTOR
373	TRANSFORMER, OUTDOOR FAN MOTOR	T9	TRANSFORMER, GFI
374	TRANSFORMER, GFI	T29	TRANSFORMER, OUTDOOR FAN MOTOR
375	TRANSFORMER, OUTDOOR FAN MOTOR	T59	TRANSFORMER, GFI
376	TRANSFORMER, GFI	T813	TERMINAL STRIP, POWER DISTRIBUTION

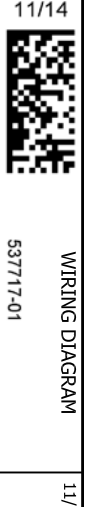
KEY	COMPONENT
A55	MAIN CONTROL BOARD
A86	CONTROL INVERTER
A178	PANEL COMP 3&4, C3 2nd STAGE HEAT
A186	TRANSUDGER TANDEM COMPRESSOR STG 1
A187	TRANSUDGER TANDEM COMPRESSOR STG 2
A188	CONTROL GENERAL PURPOSE GP3
B1	COMPRESSOR 1
B2	COMPRESSOR 2
B3	MOTOR, BLOWER
B4	MOTOR, OUTDOOR FAN 1
B5	MOTOR, OUTDOOR FAN 2
B10	MOTOR, EXHAUST FAN 1
B11	MOTOR, EXHAUST FAN 2
B20	COMPRESSOR 3
B21	MOTOR, OUTDOOR FAN 3
B22	MOTOR, OUTDOOR FAN 4
B23	MOTOR, OUTDOOR FAN 5
B24	MOTOR, OUTDOOR FAN 6
C8	CAPACITOR, EXHAUST FAN 1
C8	CAPACITOR, EXHAUST FAN 2
CB18	CIRCUIT BREAKER T18
F4	FUSE, MAIN UNIT
F6	FUSE, EXHAUST FAN
F10	FUSE, OUTDOOR FAN MOTOR
F30	FUSE, TRANSFORMER T29 PRIMARY
F31	FUSE, TRANSFORMER T29 SECONDARY
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
HR5	HEATER COMPRESSOR 3
HR11	HEATER 1, COMPRESSOR 4
K1-1	JACK, GFI, RECEPTACLE
K2-1	CONTRACTOR, COMPRESSOR 1
K3-1	CONTRACTOR, COMPRESSOR 2
K4-1	CONTRACTOR, COMPRESSOR 3
K6&12	RELAY, EXHAUST FAN
K14&1	CONTRACTOR, COMPRESSOR 4
K191-2	RELAY, GRANKCASE HEATER 1
K20&4	RELAY, INVERTER
K231-1,2	RELAY, CONTROL INVERTER
K233-2	RELAY, EXHAUST FAN 2
K234-2	RELAY, GRANKCASE HEATER 3
K117	SENSOR, OUTDOOR AIR
K137	SENSOR, THERMISTOR 1, COMPRESSOR 1
K138	SENSOR, THERMISTOR 2, COMPRESSOR 2
K139	SENSOR, THERMISTOR 3, COMPRESSOR 3
K140	SENSOR, THERMISTOR 4, COMPRESSOR 4
S5	SWITCH, LIMIT HI PRESS COMPRESSOR 1
S6	SWITCH, LIMIT HI TEMP COMPRESSOR 2
S11	SWITCH, LOW PRESS, LOW AMBIENT COMP 1
S28	SWITCH, LIMIT HI PRESS, LOW AMBIENT COMP 1
S31	SWITCH, LIMIT HI TEMP COMPRESSOR 3
S48	SWITCH, DISCONNECT
S53	SWITCH, FREEZE STAT COMPRESS 1
S85	SWITCH, FREEZE STAT COMPRESS 3
S97	SWITCH, LOW PRESS, COMP 1
S98	SWITCH, LOW PRESS, COMP 3
S117	SWITCH, GFI
S180	LIMIT, HIGH TEMP COMPRESSOR 4
T5	TRANSFORMER, CONTROL
T8	TRANSFORMER, OUTDOOR FAN MOTOR
T9	TRANSFORMER, GFI
T29	TRANSFORMER, OUTDOOR FAN MOTOR
T59	TRANSFORMER, GFI
T813	TERMINAL STRIP, POWER DISTRIBUTION

- ⚠ F6 AND F10 FUSES ARE USED ON "V" VOLTAGE UNITS ONLY
- ⚠ S49 AND S53 ARE PART OF SVDC CIRCUIT
- ⚠ B10, B11 NOT USED ON UNITS WITH ERV
- ⚠ USED ON LCH
- ⚠ T5/T59 USED ON G & J VOLTAGE ONLY

NOTE: FOR USE WITH COPPER CONDUCTORS ONLY. REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

↗ DENOTES OPTIONAL COMPONENTS

↖ LINE VOLTAGE FIELD INSTALLED



11/14
WIRING DIAGRAM
537717-01
COOLING -MSAV NO BYPASS

LCH/LGH - 180, 240 ULTRA - G, J, Y
SECTION B
New Form No. 537717-01
REV. 0
Supersedes