

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 | JACK/PLUG DESCRIPTION |
|-----|--------------------------------------|
| 18 | POWER EXHAUST HARNESS |
| 19 | RELAY TO EXHAUST FANS |
| 24 | MOTOR, OUTDOOR FAN 1 |
| 47 | MOTOR, OUTDOOR FAN 2 |
| 52 | MOTOR, OUTDOOR FAN 2 |
| 86 | OUTDOOR FANS 1 |
| 86 | OUTDOOR FANS 2 |
| 106 | MOTOR, OUTDOOR FAN 3 |
| 107 | MOTOR, OUTDOOR FAN 4 |
| 108 | MOTOR, OUTDOOR FAN 5 |
| 109 | MOTOR, OUTDOOR FAN 6 |
| 118 | COMPRESSOR 3 AND 4 CONTROL A178 |
| 119 | COMPRESSOR 3 AND 4 INPU |
| 132 | POWER TO EXHAUST FAN MOTOR 1 |
| 133 | POWER TO EXHAUST FAN MOTOR 2 |
| 246 | POWER TO VFD |
| 247 | VFD TO MTR |
| 248 | VFD CONTROL |
| 259 | BLOWER ECM MOTOR |
| 263 | HIGH AND LOW PRESSURE SWITCHES |
| 264 | BLOWER DECK AREA |
| 285 | CONTACTORS AND RELAYS |
| 288 | 24V POWER FROM TRANSFORMERS TO A55 |
| 287 | OUTDOOR FAN AREA |
| 320 | OD FAN CONTROL SET 1 |
| 321 | OD FAN CONTROL SET 2 |
| 333 | OD V TRANSDUCER INPUT |
| 336 | OD FAN CONTROL B4 |
| 337 | OD FAN CONTROL B5 |
| 338 | OD FAN CONTROL B21 |
| 339 | OD FAN CONTROL B22 |
| 340 | OD FAN CONTROL B23 |
| 341 | OD FAN CONTROL B24 |
| 342 | COMPRESSOR PRESSURE TRANSDUCER STG 1 |
| 343 | TEMPERATURE SENSOR COMPRESSOR 1 |
| 344 | TEMPERATURE SENSOR COMPRESSOR 2 |
| 345 | TEMPERATURE SENSOR COMPRESSOR 3 |
| 346 | TEMPERATURE SENSOR COMPRESSOR 4 |
| 347 | RELAY, EXHAUST FAN |
| 348 | CONTROL GENERAL PURPOSE GP3 |

| KEY | COMPONENT |
|----------|---|
| A55 | MAIN CONTROL BOARD |
| A96 | CONTROL INVERTER |
| A178 | PANEL COMP 3&4, C3 2nd STAGE HEAT |
| A185 | TRANS-DUCER TANDEM COMPRESSOR STG 1 |
| A186 | TRANS-DUCER TANDEM COMPRESSOR STG 2 |
| A187 | CONTROL GENERAL PURPOSE GP3 |
| B1 | COMPRESSOR 1 |
| B2 | COMPRESSOR 2 |
| B3 | MOTOR, BLOWER |
| B4 | MOTOR, OUTDOOR FAN 1 |
| B5 | MOTOR, OUTDOOR FAN 2 |
| E10 | MOTOR, EXHAUST FAN 1 |
| B11 | MOTOR, EXHAUST FAN 2 |
| B13 | COMPRESSOR 3 |
| B20 | COMPRESSOR 4 |
| 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 |
| F10 | FUSE, EXHAUST FAN |
| F16 | FUSE, OUTDOOR FAN MOTOR |
| F30 | FUSE, TRANSFORMER T29 PRIMARY |
| F31 | FUSE, TRANSFORMER T29 SECONDARY |
| F57 | FUSE, T5 TRANSFORMER PRIMARY |
| F58 | FUSE, T59 TRANSFORMER PRIMARY |
| HR1 | HEATER COMPRESSOR 1 |
| HR2 | HEATER COMPRESSOR 2 |
| HR5 | HEATER COMPRESSOR 3 |
| HR11 | HEATER 1, COMPRESSOR 4 |
| HR11 | HEATER 1, RECEPTACLE |
| HR11 | JACK, GFI, RECEPTACLE |
| K11 | CONTACTOR, COMPRESSOR 1 |
| K2 | CONTACTOR, COMPRESSOR 2 |
| K3 | CONTACTOR, COMPRESSOR 3 |
| K4 | CONTACTOR, COMPRESSOR 4 |
| K6S-12 | RELAY, EXHAUST FAN |
| K146-1 | CONTACTOR, COMPRESSOR 1 |
| K146-2 | RELAY, GRANKCASE HEATER 1 |
| K194-2 | RELAY, GRANKCASE HEATER 2 |
| K194-3 | RELAY, GRANKCASE HEATER 3 |
| K203-1 | RELAY, INVERTER |
| K203-2 | RELAY, CONTROL INVERTER |
| K231-1,2 | RELAY, EXHAUST FAN 2 |
| K231-3 | RELAY, GRANKCASE HEATER 3 |
| K234-2 | RELAY, GRANKCASE HEATER 4 |
| R117 | SENSOR, OUTDOOR AIR |
| R177 | SENSOR THERMISTOR 1, COMPRESSOR 1 |
| R138 | SENSOR THERMISTOR 2, COMPRESSOR 2 |
| R139 | SENSOR THERMISTOR 3, COMPRESSOR 3 |
| R140 | SENSOR THERMISTOR 4, COMPRESSOR 4 |
| S4 | SWITCH, LIMIT HI PRESS COMPRESSOR 1 |
| S5 | SWITCH, LIMIT HI TEMP COMPRESSOR 1 |
| S8 | SWITCH, LIMIT HI TEMP COMPRESSOR 2 |
| S28 | SWITCH, LOW PRESS, LOW AMBIENT COMP 1 |
| S31 | SWITCH, LIMIT HI PRESS COMPRESSOR 3 |
| S48 | SWITCH, DISCONNECT |
| S49 | SWITCH, FREEZE STAT COMPRESSOR 1 |
| S53 | SWITCH, FREEZE STAT COMPRESSOR 3 |
| S85 | SWITCH, LOW PRESS, LOW AMBIENT KIT COMP 3 |
| S87 | SWITCH, LOW PRESS, COMP 1 |
| S88 | SWITCH, LOW PRESS, COMP 3 |
| S117 | SWITCH, GFI |
| S180 | LIMIT, HIGH TEMP COMPRESSOR 4 |
| T1 | TRANSFORMER, CONTROL |
| T5 | TRANSFORMER, OUTDOOR FAN MOTOR |
| T18 | TRANSFORMER, CONTACTOR |
| T29 | TRANSFORMER, GFI |
| T59 | TRANSFORMER, OUTDOOR FAN MOTOR |
| TB13 | TERMINAL STRIP, POWER DISTRIBUTION |

△ F6 AND F10 FUSES ARE USED ON "Y" VOLTAGE UNITS ONLY

△ S49 AND S53 ARE PART OF SVDC CIRCUIT

△ B10, B11 NOT USED ON UNITS WITH ERY

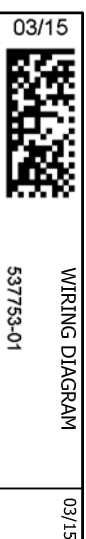
△ USED ON LCH

△ T5, T59, F57 & F58 USED ON G & J VOLTAGE UNITS 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



03/15
WIRING DIAGRAM
537753-01
COOLING -MSAV WITH BYPASS
LCH/LGH - 180, 240 ULTRA - G, J, Y
SECTION B
REV. 2
Supersedes New Form No. 537753-01