



**MILLENNIUM®**  
**PACKAGED LIQUID CHILLERS**  
**AIR COOLED SCREW HERMETIC**

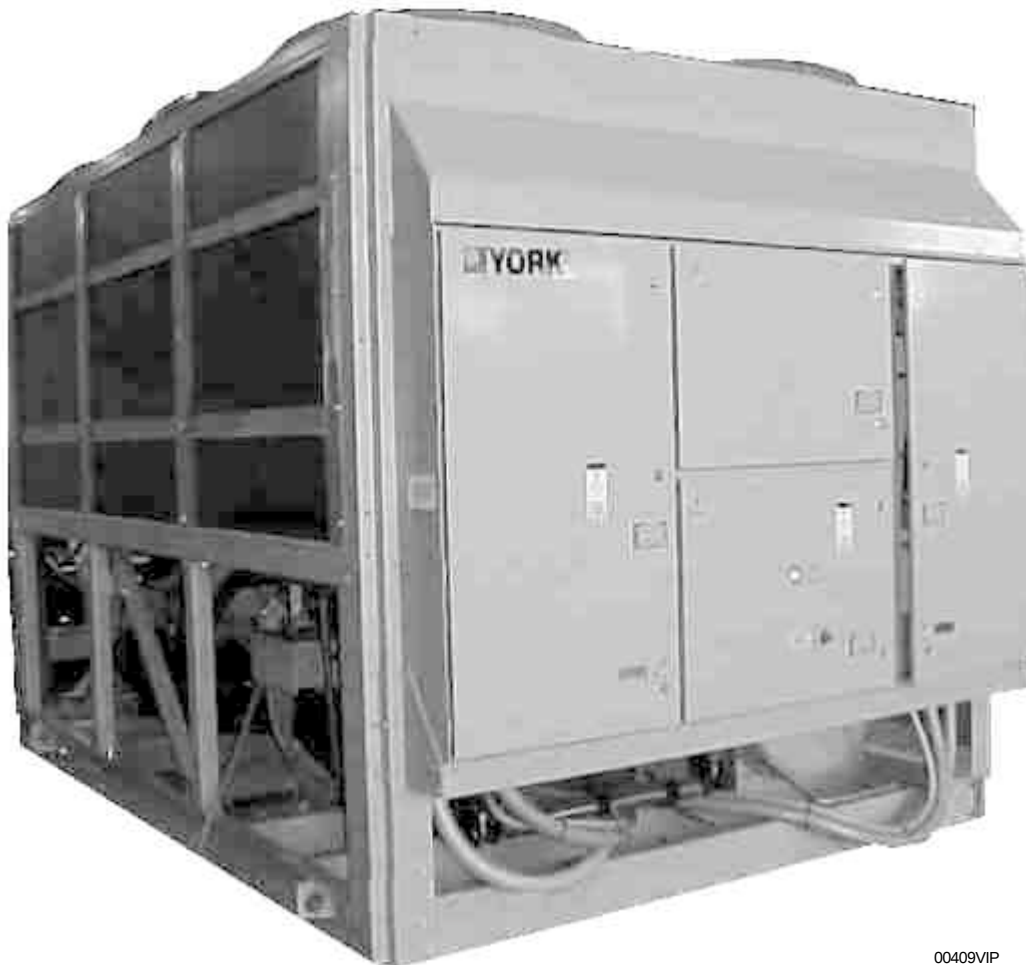
**RENEWAL PARTS LIST**

New Release

Form 201.18-RP5 (900)

**MODELS YCAS0090, YCAS0100, YCAS0110 & YCAS0120**

**60 HERTZ**



00409VIP

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# WARNING

## HIGH VOLTAGE

**Is used in the operation of this equipment.**

## DEATH OR SERIOUS INJURY

**may result if personnel fail to observe safety precautions.**

Work on electronic equipment should not be undertaken unless the individual(s) have been trained in the proper maintenance of equipment and is (are) familiar with its potential hazards.

Shut off power supply to the equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

## LOW VOLTAGE

DO NOT be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

### BASIC PART NUMBER

**YCAS0100EC46YFA**

|                   |          |          |          |                  |          |          |          |                 |             |                 |           |                     |                          |                  |
|-------------------|----------|----------|----------|------------------|----------|----------|----------|-----------------|-------------|-----------------|-----------|---------------------|--------------------------|------------------|
| <b>1</b>          | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b>         | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b>        | <b>10</b>   | <b>11</b>       | <b>12</b> | <b>13</b>           | <b>14</b>                | <b>15</b>        |
| BASE PRODUCT TYPE |          |          |          | NOMINAL CAPACITY |          |          |          | UNIT DESIGNATOR | REFRIGERANT | VOLTAGE/STARTER |           |                     | DESIGN/DEVELOPMENT LEVEL |                  |
| Y                 |          |          |          | 0                | #        | #        | #        | S               | B           | 1               | 7         |                     | F                        |                  |
|                   | C        |          |          |                  |          |          |          | E               | R-407C      | 2               | 8         | :200 / 3/ 60        |                          | :Design Series F |
|                   |          | A        |          |                  |          |          |          | H               | R-22        | 4               | 0         | :230 / 3/ 60        | A                        | :Engineering     |
|                   |          |          | S        |                  |          |          |          |                 |             | 4               | 0         | :380 / 3/ 60        |                          | Change           |
|                   |          |          |          |                  |          |          |          |                 |             | 4               | 6         | :460 / 3/ 60        |                          | or PIN Level     |
|                   |          |          |          |                  |          |          |          |                 |             | 5               | 8         | :575 / 3/ 60        |                          |                  |
|                   |          |          |          |                  |          |          |          |                 |             |                 |           | Y :Wye (Star) Delta |                          |                  |
|                   |          |          |          |                  |          |          |          |                 |             |                 |           | X :Across the Line  |                          |                  |

## PART NUMBER – LETTER CODES

[illegible]

**MP** = Multiple Point

**SP** = Single Point

**NF** = Non-Fused

**TB** = Terminal Block

**Ser.** = Service

**Sep. Sys. Brkr.** = Separate System Breaker

[illegible]

## 55

## EXTENDED WARRANTIES

|   |                                   |
|---|-----------------------------------|
| X | : 1st Year Parts Only             |
| B | : 1st Year Parts & Labor          |
| C | : 2nd Year Parts Only             |
| D | : 2nd Year Parts & Labor          |
| E | : 5 Year Compressor Parts Only    |
| F | : 5 Year Compressor Parts & Labor |
| G | : 5 Year Unit Parts Only          |
| H | : 5 Year Unit Parts & Labor       |

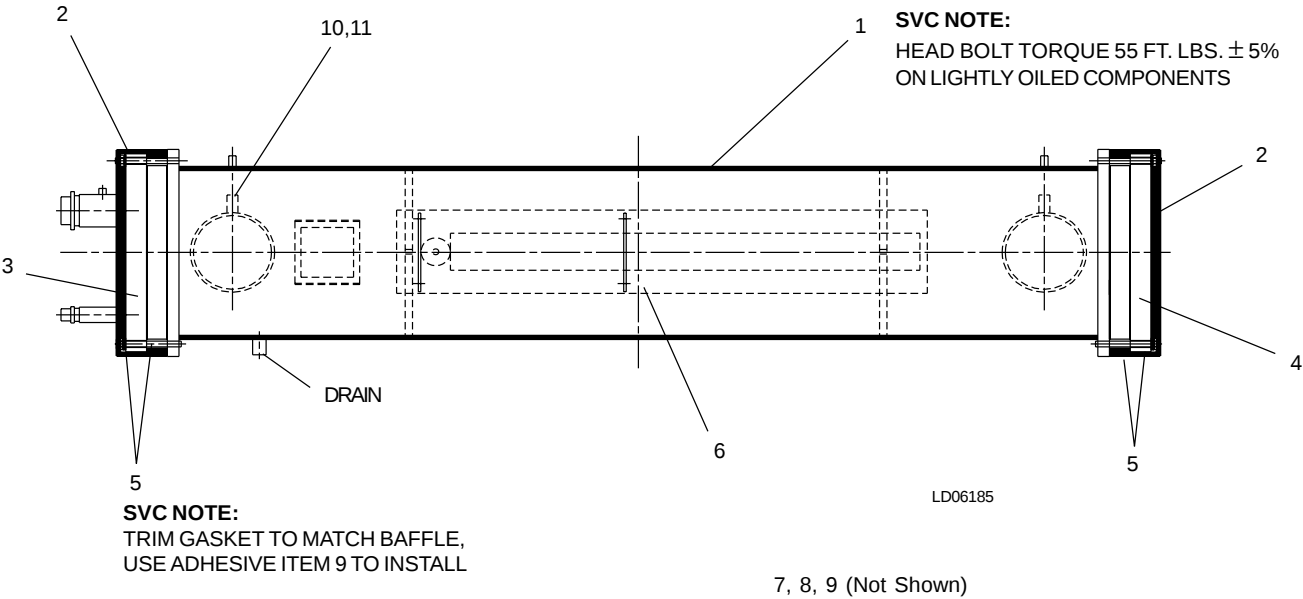
NOTES:

1. Q :DENOTES SPECIAL / S.Q.
2. # :DENOTES STANDARD
3. ☒ :w/in OPTIONS FIELD. DENOTES NO OPTION SELECTED

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# EVAPORATOR COMPONENTS

**SVC NOTE:**  
UNWEAT BRAZED ON  
STEEL COUPLINGS - FOR  
FIELD PIPE CONNECTION



**FIG. 1 – EVAPORATOR COMPONENTS - 150 PSI**

- 150# EVAPORATOR FLOW SWITCH 024-26116-000

**TABLE 1 – EVAPORATOR COMPONENTS - 150 PSI**

| ITEM NUMBER | QTY.<br>PER<br>UNIT | DESCRIPTION                                           | DWP | UNIT MODEL<br>YCAS0090 THRU<br>YCAS0120 |
|-------------|---------------------|-------------------------------------------------------|-----|-----------------------------------------|
| 1           | 1                   | Evaporator, less Heater & Insulation (Items 2 thru 5) | 150 | 375-32153-000                           |
| 2           | 1                   | Head, Front and Back                                  | ALL | 075-35113-000                           |
| 3           | 1                   | Baffle, Pass, Front                                   | ALL | 375-30235-000                           |
| 4           | 1                   | Baffle, Pass, Back                                    | ALL | 075-30238-000                           |
| 5           | 8                   | Gasket, Pass Baffle and Head                          | ALL | 075-30239-000                           |
| 6           | 1                   | Heater, Cooler 180 Watt                               | ALL | 025-22690-000                           |
| 7           | 3                   | Insulation (3/4" x 49" x 65")                         | ALL | 010-05997-000                           |
| 8           | 2                   | Insulation (1-1/2" x 49" x 65")                       | ALL | 010-05998-000                           |
| 9           | 1                   | Adhesive, 1.75 oz. Btl. (Not Shown)                   | ALL | 013-02293-000                           |
| 10          | 2                   | Pipe Plug 3/8"                                        | ALL | 023-01564-000                           |
| 11          | 2                   | Well, Thermo CU 1/2" x 9-1/2"                         | ALL | 026-33627-000                           |

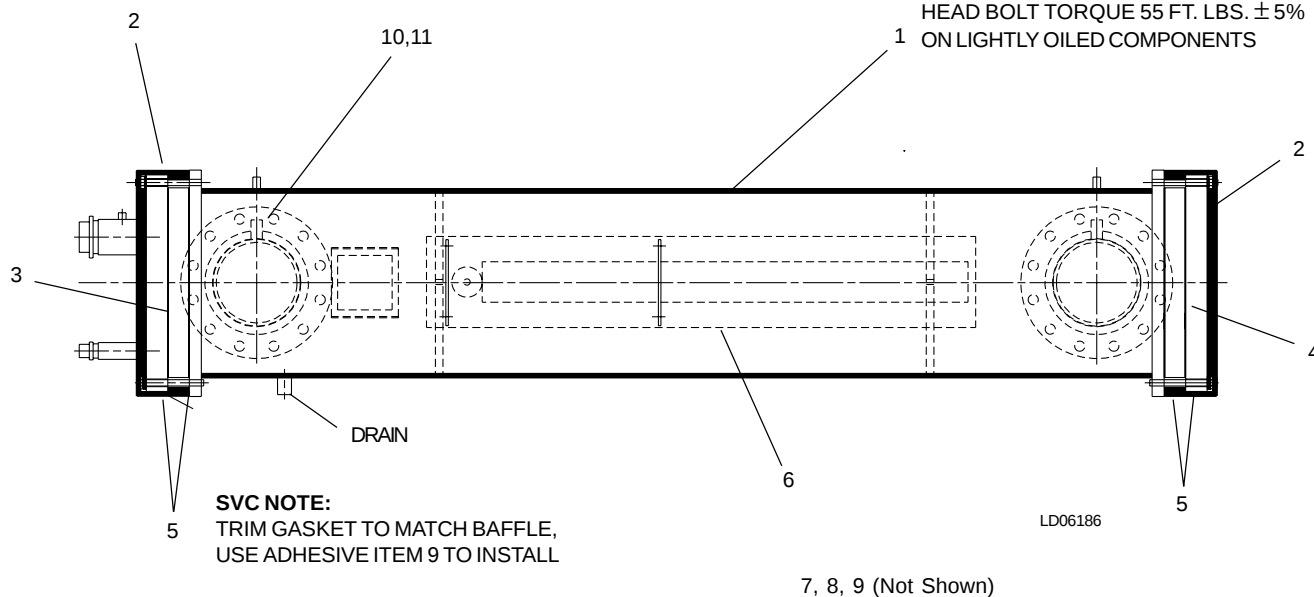
## EVAPORATOR COMPONENTS (CONT'D)

**SVC NOTE:**

UNWEAT BRAZED ON  
STEEL COUPLINGS - FOR  
FIELD PIPE CONNECTION

**SVC NOTE:**

HEAD BOLT TORQUE 55 FT. LBS.  $\pm$  5%  
ON LIGHTLY OILED COMPONENTS



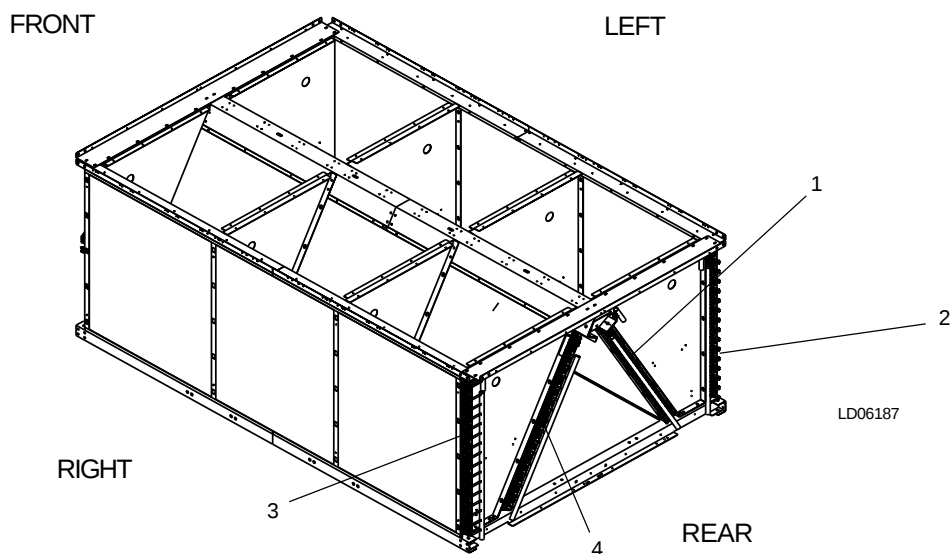
**FIG. 2 – EVAPORATOR COMPONENTS - 300 PSI**

- 300# EVAPORATOR FLOW SWITCH 024-12144-000 (PIN 38 in Model Number is 3)

**TABLE 2 – EVAPORATOR COMPONENTS - 300 PSI**

| ITEM NUMBER | QTY.<br>PER<br>UNIT | DESCRIPTION                                           | DWP | UNIT MODEL<br>YCAS0090 THRU<br>YCAS0120 |
|-------------|---------------------|-------------------------------------------------------|-----|-----------------------------------------|
| 1           | 1                   | Evaporator, less Heater & Insulation (Items 2 thru 5) | 300 | 375-32154-000                           |
| 2           | 1                   | Head, Front and Back                                  | ALL | 075-35113-000                           |
| 3           | 1                   | Baffle, Pass, Front                                   | ALL | 375-30235-000                           |
| 4           | 1                   | Baffle, Pass, Back                                    | ALL | 075-30238-000                           |
| 5           | 8                   | Gasket, Pass Baffle and Head                          | ALL | 075-30239-000                           |
| 6           | 1                   | Heater, Cooler 180 Watt                               | ALL | 025-22690-000                           |
| 7           | 3                   | Insulation (3/4" x 49" x 65")                         | ALL | 010-05997-000                           |
| 8           | 2                   | Insulation (1-1/2" x 49" x 65")                       | ALL | 010-05998-000                           |
| 9           | 1                   | Adhesive, 1.75 oz. Btl. (Not Shown)                   | ALL | 013-02293-000                           |
| 10          | 2                   | Pipe Plug 3/8"                                        | ALL | 023-01564-000                           |
| 11          | 2                   | Well, Thermo CU 1/2" x 9-1/2"                         | ALL | 026-33627-000                           |

## CONDENSER COIL COMPONENTS



VIEW OF CHILLER FROM POWER PANEL END

FIG. 3 – CONDENSER COIL LAYOUT

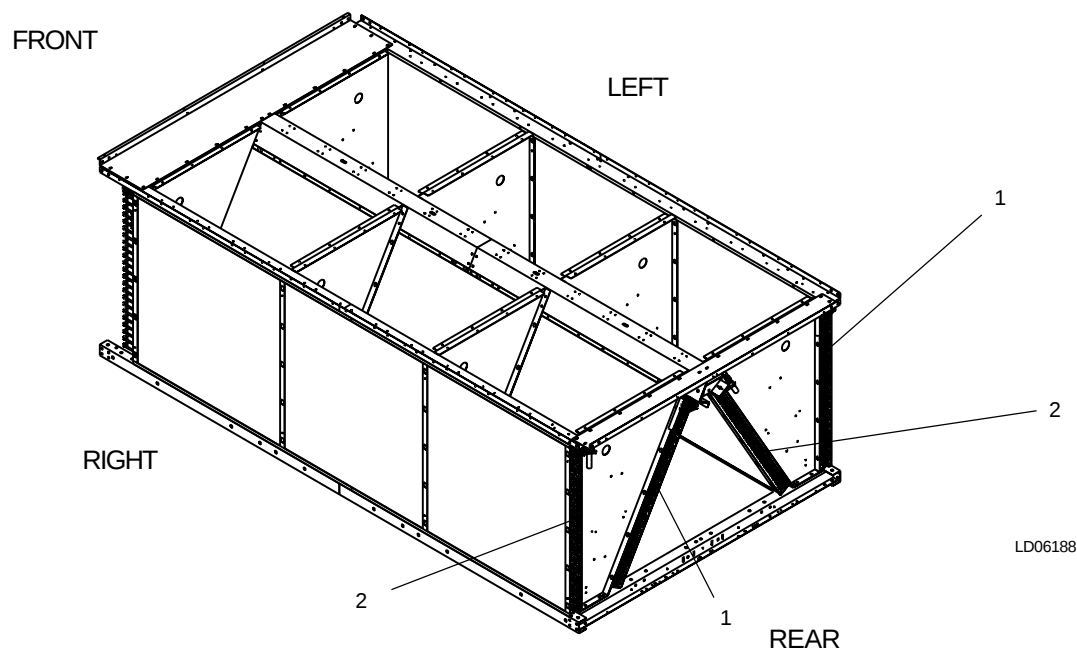
Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 3 – CONDENSER COILS – YCAS0090 AND YCAS0100

|                                     |                                    |      | MODELS<br>YCAS0090 - 0100<br>10.5' COIL |
|-------------------------------------|------------------------------------|------|-----------------------------------------|
| ITEM NUMBER                         | DESCRIPTION                        | QTY. | YORK PART NO.                           |
| <b>ALUMINUM FIN COIL</b>            |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-32252-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-32252-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-32252-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-32252-004                           |
| <b>BLACK FIN COIL</b>               |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-29092-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-29092-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-29092-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-29092-004                           |
| <b>PHENOLIC COATED ALUMINUM FIN</b> |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-33402-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-33402-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-33402-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-33402-004                           |
| <b>COPPER FIN</b>                   |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-29093-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-29093-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-29093-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-29093-004                           |

**NOTES:** Coil Assemblies are complete with headers.  
For headers – contact Factory Service.  
Tube-In-Tube Repairs – contact Factory Service.

## CONDENSER COIL COMPONENTS (CONT'D)



VIEW OF CHILLER FROM POWER PANEL END

FIG. 4 – CONDENSER COIL LAYOUT

Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 4 – CONDENSER COILS – YCAS0090 AND YCAS 0100

|                                     |                            | MODELS<br>YCAS0110 - 0120<br>12' COIL |               |
|-------------------------------------|----------------------------|---------------------------------------|---------------|
| ITEM NUMBER                         | DESCRIPTION                | QTY.                                  | YORK PART NO. |
| <b>ALUMINUM FIN COIL</b>            |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-27435-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-27435-002 |
| <b>BLACK FIN COIL</b>               |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-23772-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-23772-002 |
| <b>PHENOLIC COATED ALUMINUM FIN</b> |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-29011-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-29011-002 |
| <b>COPPER FIN</b>                   |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-23778-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-23778-002 |

**NOTES:** Coil Assemblies are complete with headers.  
 For headers – contact Factory Service.  
 Tube-In-Tube Repairs – contact Factory Service.

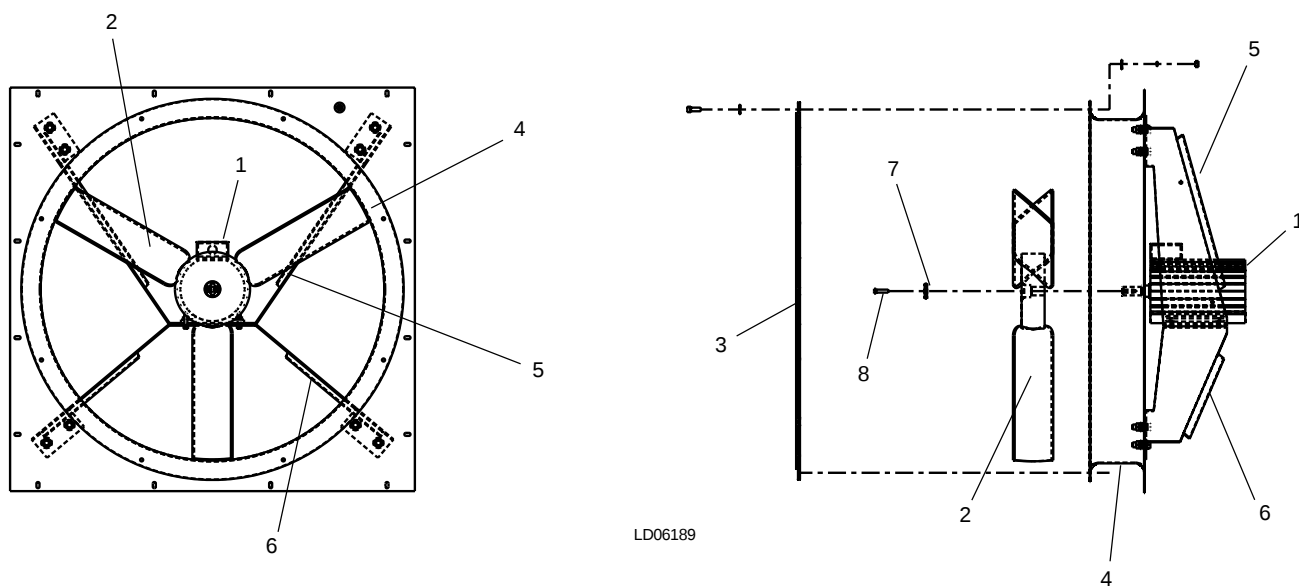
## FAN COMPONENTS

### CHILLER MODELS YCAS0090 AND YCAS0100

**TABLE 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100**

| ITEM NUMBER    | DESCRIPTION                      | VOLTAGE CODE | FAN TYPE                           |                                               |
|----------------|----------------------------------|--------------|------------------------------------|-----------------------------------------------|
|                |                                  |              | STANDARD<br>7/8" Ø SHAFT, 1160 RPM | LOW NOISE (OPTIONAL)<br>7/8" Ø SHAFT, 850 RPM |
| 1 <sup>s</sup> | Motor<br>2 HP<br>(Wt. = 50 LBS.) | -17          | 024-30900-002                      | 024-30933-002                                 |
|                |                                  | -28          | 024-30900-002                      | 024-30933-002                                 |
|                |                                  | -40          | 024-30900-004                      | 024-30933-004                                 |
|                |                                  | -46          | 024-30900-001                      | 024-30933-001                                 |
|                |                                  | -58          | 024-30900-003                      | 024-30933-003                                 |
| 2 <sup>s</sup> | Blade                            | All          | 026-35604-000 21°                  | 026-36532-000 30°                             |
| 3              | Guard                            | All          | 026-35605-000                      |                                               |
| 4              | Orifice                          | All          | 026-36760-000                      |                                               |
| 5              | Support, Motor, Upper            | All          | 075-29060-000                      |                                               |
| 6              | Support, Motor, Lower            | All          | 075-29061-000                      |                                               |
| 7              | Spacer, Fan Motor                | All          | 075-29007-000                      |                                               |
| 8              | Screw, Cap                       | All          | 021-18494-000                      |                                               |

<sup>s</sup>Recommended Spare Part



**FIG. 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100**

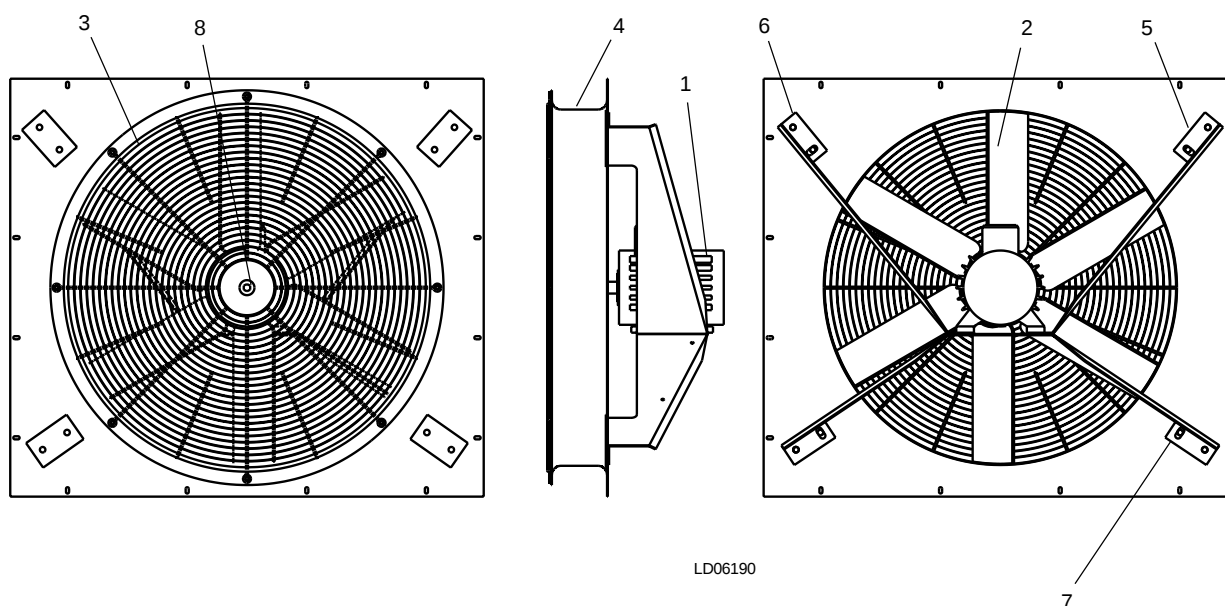
## FAN COMPONENTS (CONT'D)

### CHILLER MODELS YCAS0110 AND YCAS0120

**TABLE 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120**

| ITEM NUMBER          | DESCRIPTION                      | VOLTAGE CODE | FAN TYPE                             |                                                 |
|----------------------|----------------------------------|--------------|--------------------------------------|-------------------------------------------------|
|                      |                                  |              | STANDARD<br>1 1/8" Ø SHAFT, 1160 RPM | LOW NOISE (OPTIONAL)<br>1 3/8" Ø SHAFT, 850 RPM |
| <b>1<sup>s</sup></b> | Motor<br>3 HP<br>(Wt. = 50 LBS.) | -17          | 024-25179-002                        | 024-25247-000                                   |
|                      |                                  | -28          | 024-25179-002                        | 024-25247-000                                   |
|                      |                                  | -40          | 024-25179-001                        | 024-25247-000                                   |
|                      |                                  | -46          | 024-25179-001                        | 024-25247-000                                   |
|                      |                                  | -58          | 024-25250-000                        | 024-25252-000                                   |
| <b>2<sup>s</sup></b> | Blade                            | All          | 026-36769-000 21°                    | 026-36786-000 30°                               |
| <b>3</b>             | Guard                            | All          | 026-35605-000                        |                                                 |
| <b>4</b>             | Orifice                          | All          | 026-36141-000                        |                                                 |
| <b>5</b>             | Support, Motor, Upper            | All          | 075-25584-000                        |                                                 |
| <b>6</b>             | Support, Motor, Lower            | All          | 075-25583-000                        |                                                 |
| <b>7</b>             | Spacer, Fan Motor                | All          | 075-29007-000                        |                                                 |
| <b>8</b>             | Screw, Cap                       | All          | 021-18494-000                        |                                                 |

<sup>s</sup>Recommended Spare Part

**FIG. 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120**

## PIPING COMPONENTS CHILLER MODEL YCAS0090

**TABLE 7 – PIPING COMPONENTS (SEE FIG. 7, PAGE 13)**

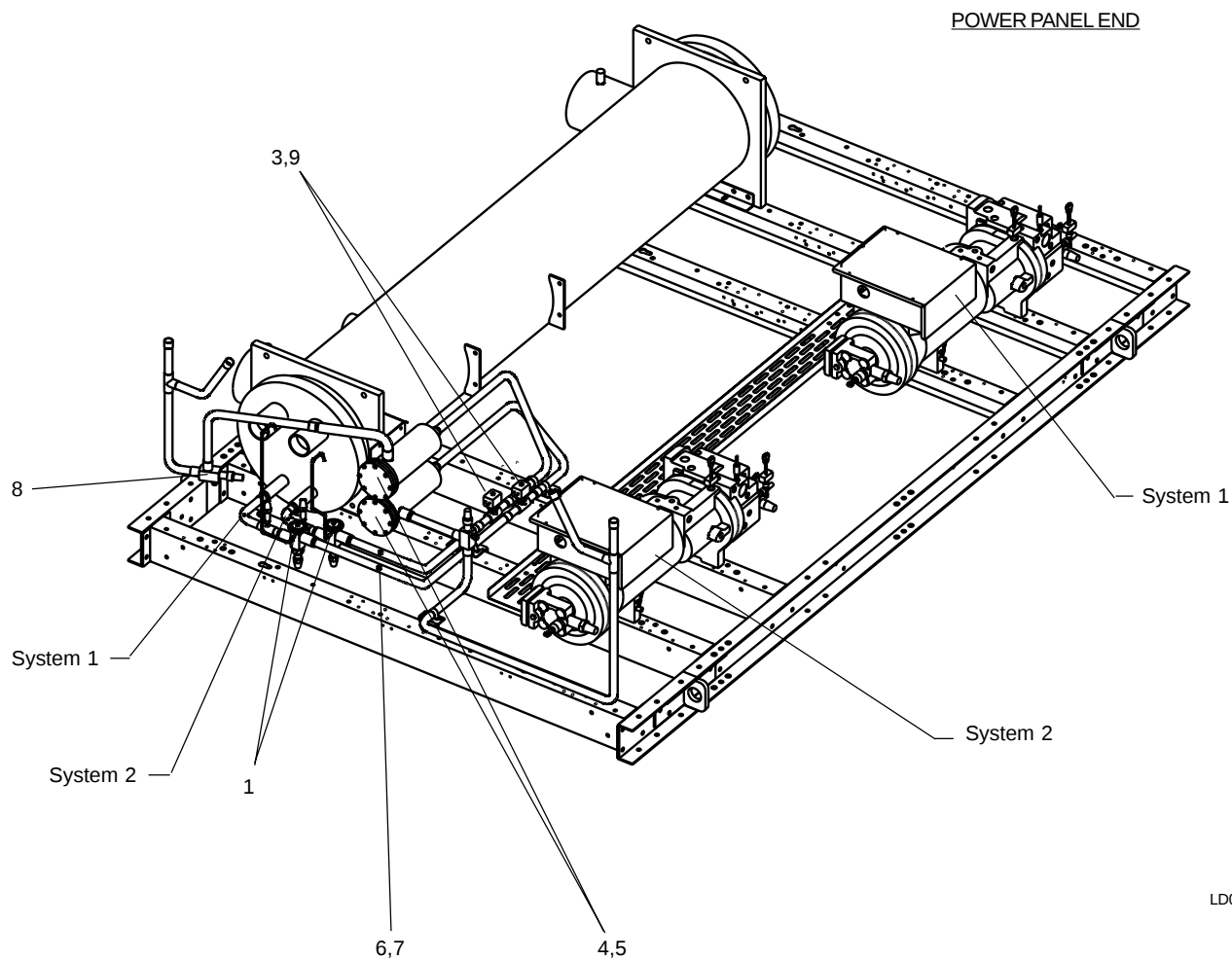
| ITEM NO.       | QTY PER UNIT   | DESCRIPTION                                     | SYSTEM                  | YCAS0090                       |
|----------------|----------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 2              | Valve, Thermal Exp.- Cooler                     | Both                    | 025-32904-000                  |
| 2              | 1              | Valve, Thermal Exp.- Econom.                    | N/A                     | N/A                            |
| 3              | 1              | Valve, Solenoid, Liq. Line                      | Both                    | 025-33705-000                  |
| 4              | 2              | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 2              | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 1              | Moisture Indicator, Body                        | Both                    | 026-32398-000                  |
| 7              | 2              | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2              | Valve, Liquid Stop                              | Both                    | 022-10022-000                  |
| 9              | 1              | Valve, Solenoid, Liq. Line                      | Both                    | 025-33705-000                  |
| 10             | 4              | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1              | Economizer, Heat X                              | N/A                     | N/A                            |
| 12             | 2 per circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2              | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 2              | Valve, Solenoid, Econo                          | N/A                     | N/A                            |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

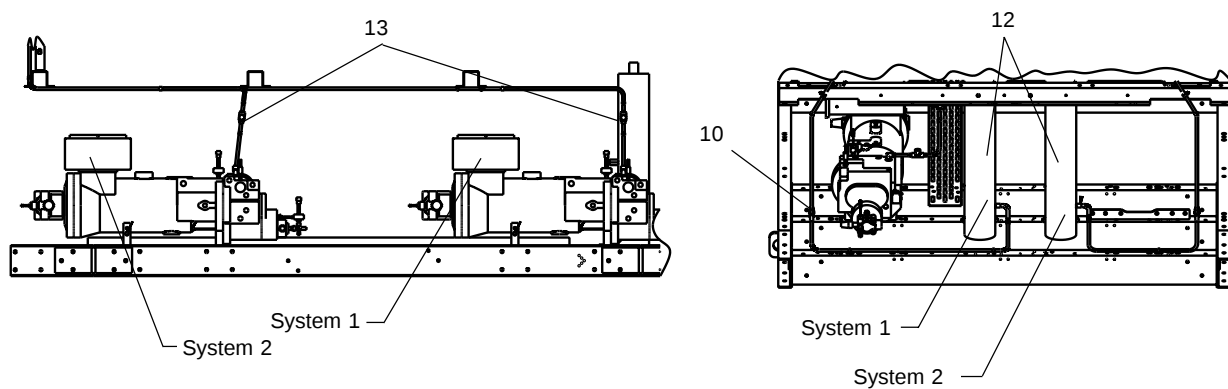
<sup>s</sup> Recommended Spare Part

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0090



LD06191



**FIG. 7 – PIPING COMPONENTS (REF. TABLE 7, PAGE 12)**

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0100

**TABLE 8 – PIPING COMPONENTS (SEE FIG. 8, PAGE 15)**

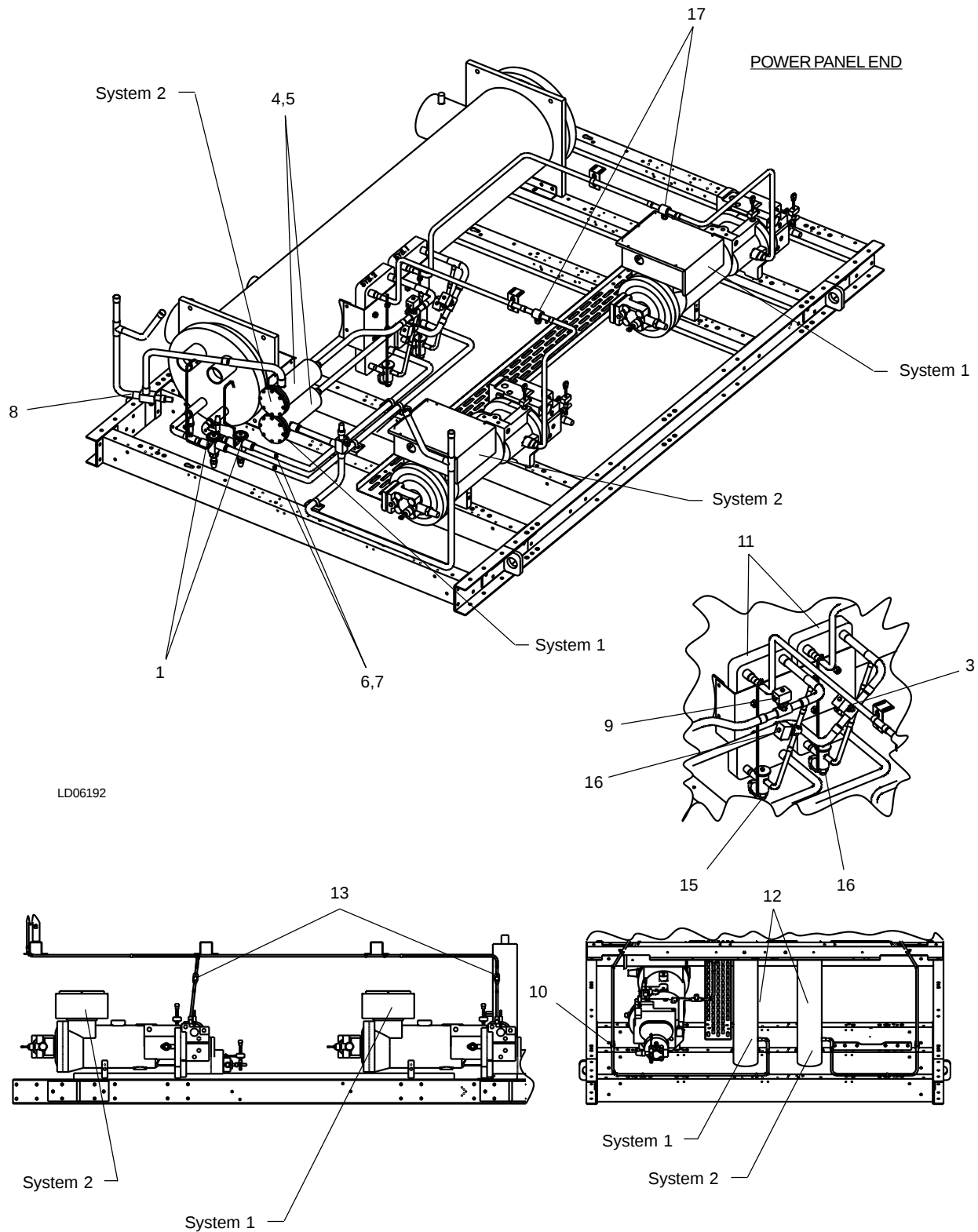
| ITEM NO.       | QTY PER UNIT      | DESCRIPTION                                     | SYSTEM                  | YCAS0100                       |
|----------------|-------------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 2                 | Valve, Thermal Exp.- Cooler                     | Both                    | 025-32904-000                  |
| 2              | 1                 | Valve, Thermal Exp.- Econom.                    | N/A                     | N/A                            |
| 3              | 1                 | Valve, Solenoid, Liq. Line                      | Both                    | 025-33704-000                  |
| 4              | 2                 | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 2                 | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 1                 | Moisture Indicator, Body                        | Both                    | 026-32398-000                  |
| 7              | 2                 | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2                 | Valve, Liquid Stop                              | Both                    | 022-09778-000                  |
| 9              | 1                 | Valve, Solenoid, Liq. Line                      | Both                    | 025-33705-000                  |
| 10             | 4                 | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1                 | Economizer, Heat X                              | Both                    | 026-36761-000                  |
| 12             | 2 per<br>circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2                 | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 2                 | Valve, Solenoid, Econo                          | N/A                     | N/A                            |
| 15             | 2                 | Valve, Solenoid                                 | Both                    | 025-34509-000                  |
| 16             | 1                 | Valve, Thermal Exp.                             | Both                    | 026-33280-000                  |
| 17             | 2                 | Valve                                           | Both                    | 022-10023-000                  |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Parts

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0100



**FIG. 8 – PIPING COMPONENTS (REF. TABLE 8, PAGE 14)**

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0110

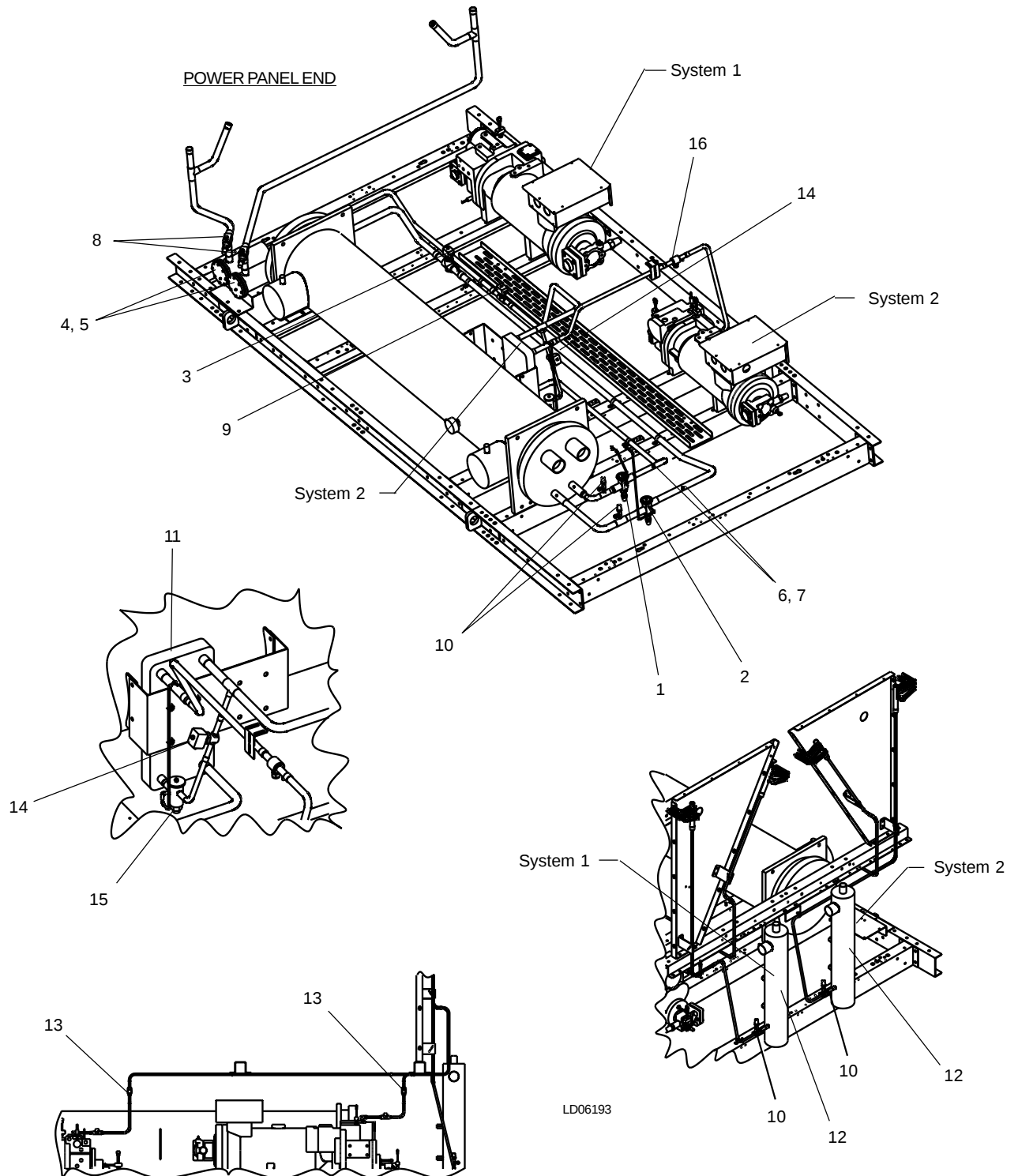
**TABLE 9 – PIPING COMPONENTS (SEE FIG. 9, PAGE 17)**

| ITEM NO.       | QTY PER UNIT      | DESCRIPTION                                     | SYSTEM                  | YCAS0110                       |
|----------------|-------------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 1                 | Valve, Thermal Exp.- Cooler                     | Sys. 1                  | 025-35757-000                  |
| 2              | 1                 | Valve, Thermal Exp.- Econom.                    | Sys. 2                  | 025-33280-000                  |
| 3              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 1                  | 025-33704-000                  |
| 4              | 2                 | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 2                 | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 2                 | Moisture Indicator, Body                        | Both                    | 026-32398-000                  |
| 7              | 2                 | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2                 | Valve, Liquid Stop                              | Both                    | 022-09778-000                  |
| 9              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 2                  | 025-33705-000                  |
| 10             | 4                 | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1                 | Economizer, Heat X                              | Sys. 2                  | 026-36761-000                  |
| 12             | 2 per<br>circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2                 | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 1                 | Valve, Solenoid                                 | Sys. 2                  | 025-34509-000                  |
| 15             | 1                 | Valve, Thermal Exp.                             | Sys. 2                  | 025-09795-000                  |
| 16             | 1                 | Valve                                           | Sys. 2                  | 022-10023-000                  |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Part

## PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0110



**FIG. 9 – PIPING COMPONENTS (REF. TABLE 9, PAGE 16)**

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0120

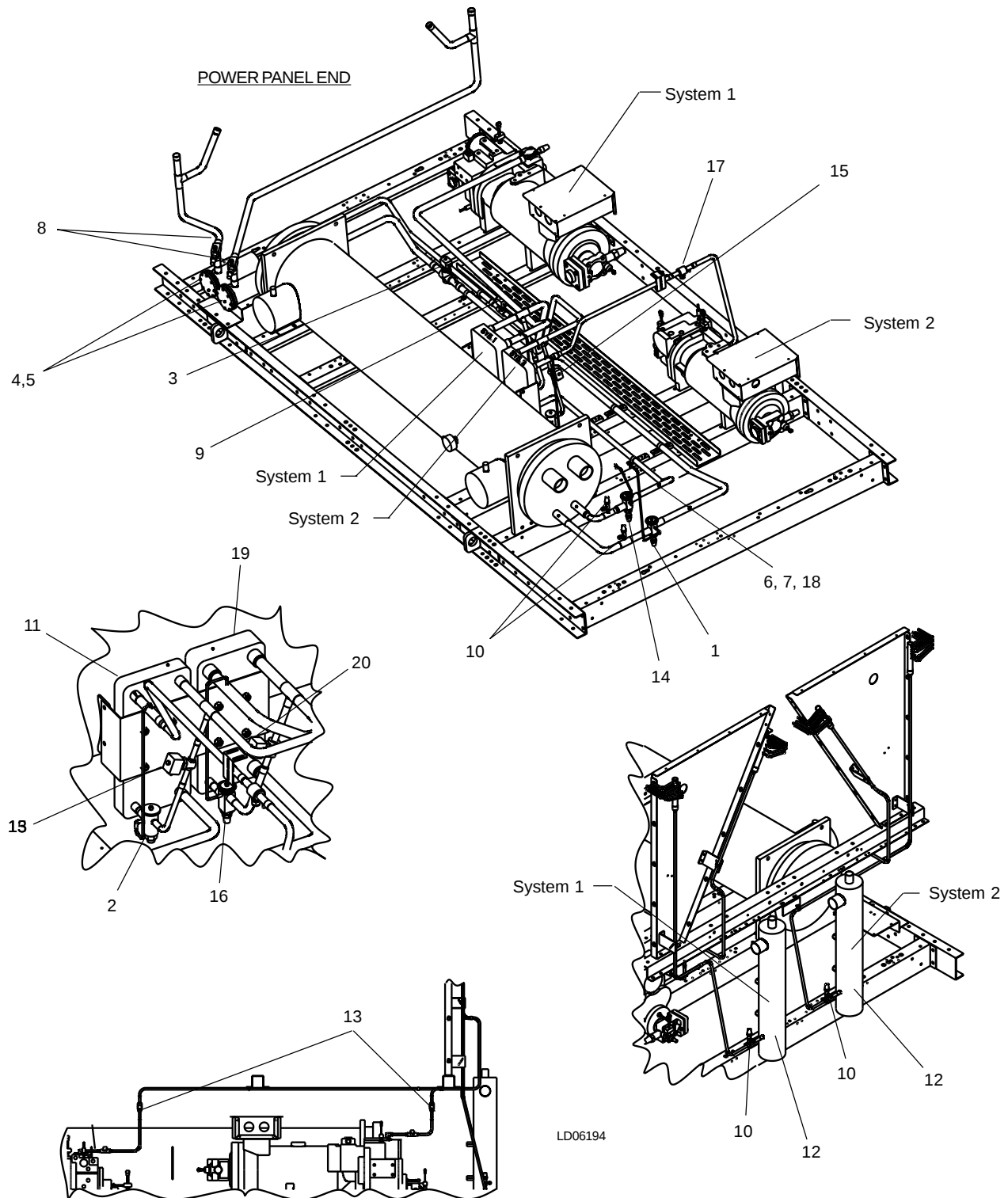
**TABLE 10 – PIPING COMPONENTS (SEE FIG. 10, PAGE 19)**

| ITEM NO.       | QTY PER UNIT      | DESCRIPTION                                     | SYSTEM                  | YCAS0120                       |
|----------------|-------------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 1                 | Valve, Thermal Exp.- Cooler                     | Sys. 1                  | 025-35757-000                  |
| 2              | 1                 | Valve, Thermal Exp.- Econom.                    | Sys. 2                  | 022-09795-000                  |
| 3              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 1                  | 025-33704-000                  |
| 4              | 2                 | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 4                 | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 1                 | Moisture Indicator, Body                        | Sys. 2                  | 026-32398-000                  |
| 7              | 2                 | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2                 | Valve, Liquid Stop                              | Both                    | 022-09778-000                  |
| 9              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 2                  | 025-33705-000                  |
| 10             | 4                 | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1                 | Economizer, Heat X                              | Sys. 2                  | 026-36761-000                  |
| 12             | 2 per<br>circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2                 | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 1                 | Valve, Thermal Exp.                             | Sys. 2                  | 025-32904-000                  |
| 15             | 1                 | Valve, Solenoid                                 | Sys. 2                  | 025-34509-000                  |
| 16             | 1                 | Valve, Thermal Exp.                             | Sys. 1                  | 025-33280-000                  |
| 17             | 1                 | Valve                                           | Sys. 2                  | 022-10023-000                  |
| 18             | 1                 | Moisture Indicator, Body                        | Sys. 1                  | 026-32397-000                  |
| 19             | 1                 | Heat Exchanger                                  | Sys. 1                  | 026-34418-000                  |
| 20             | 1                 | Valve, Solenoid                                 | Sys. 1                  | 026-33282-000                  |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Part.

## PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0120



**FIG. 10 – PIPING COMPONENTS (REF. TABLE 10, PAGE 18)**

# RELIEF VALVES AND HP CUTOUT SWITCH

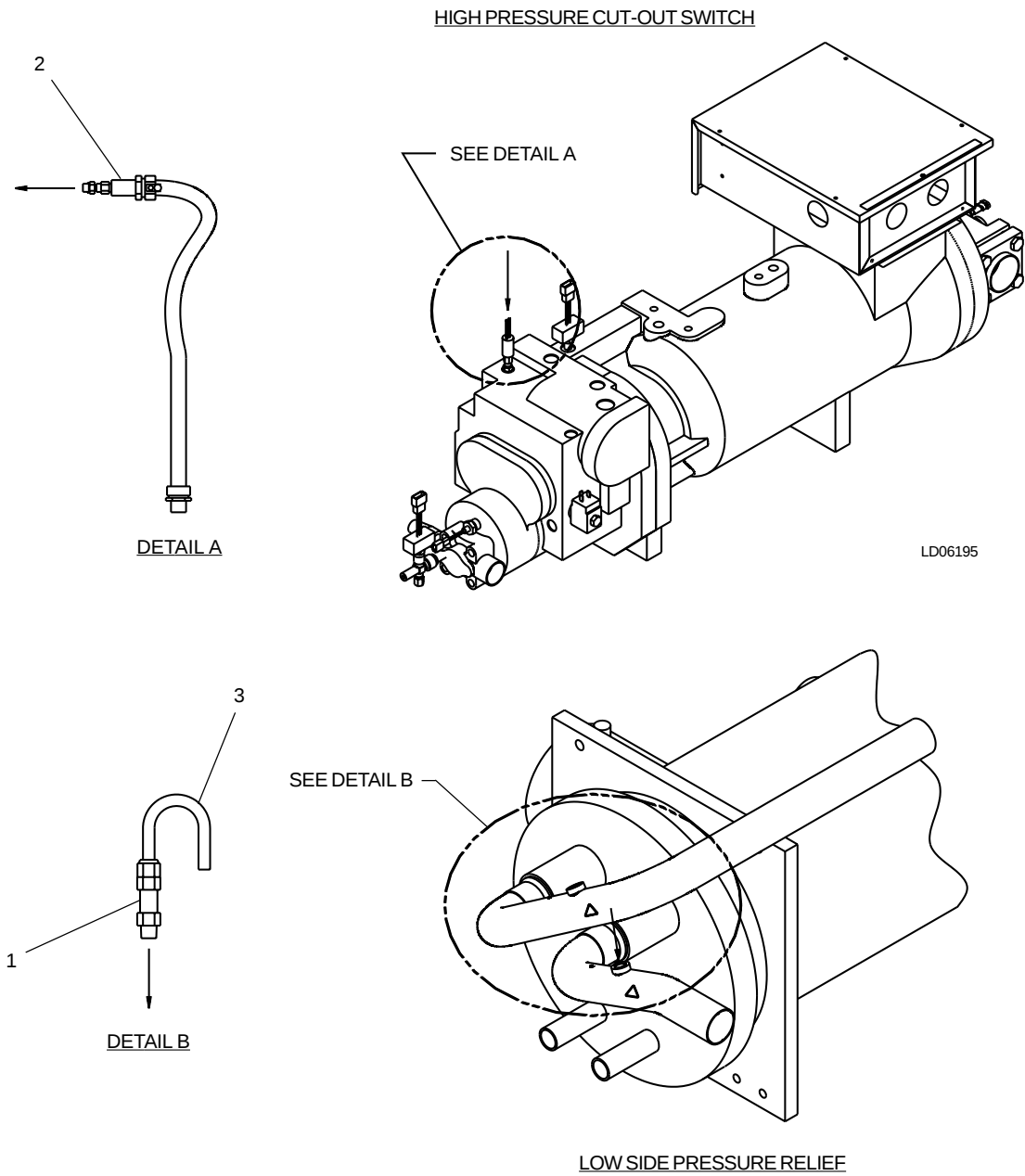


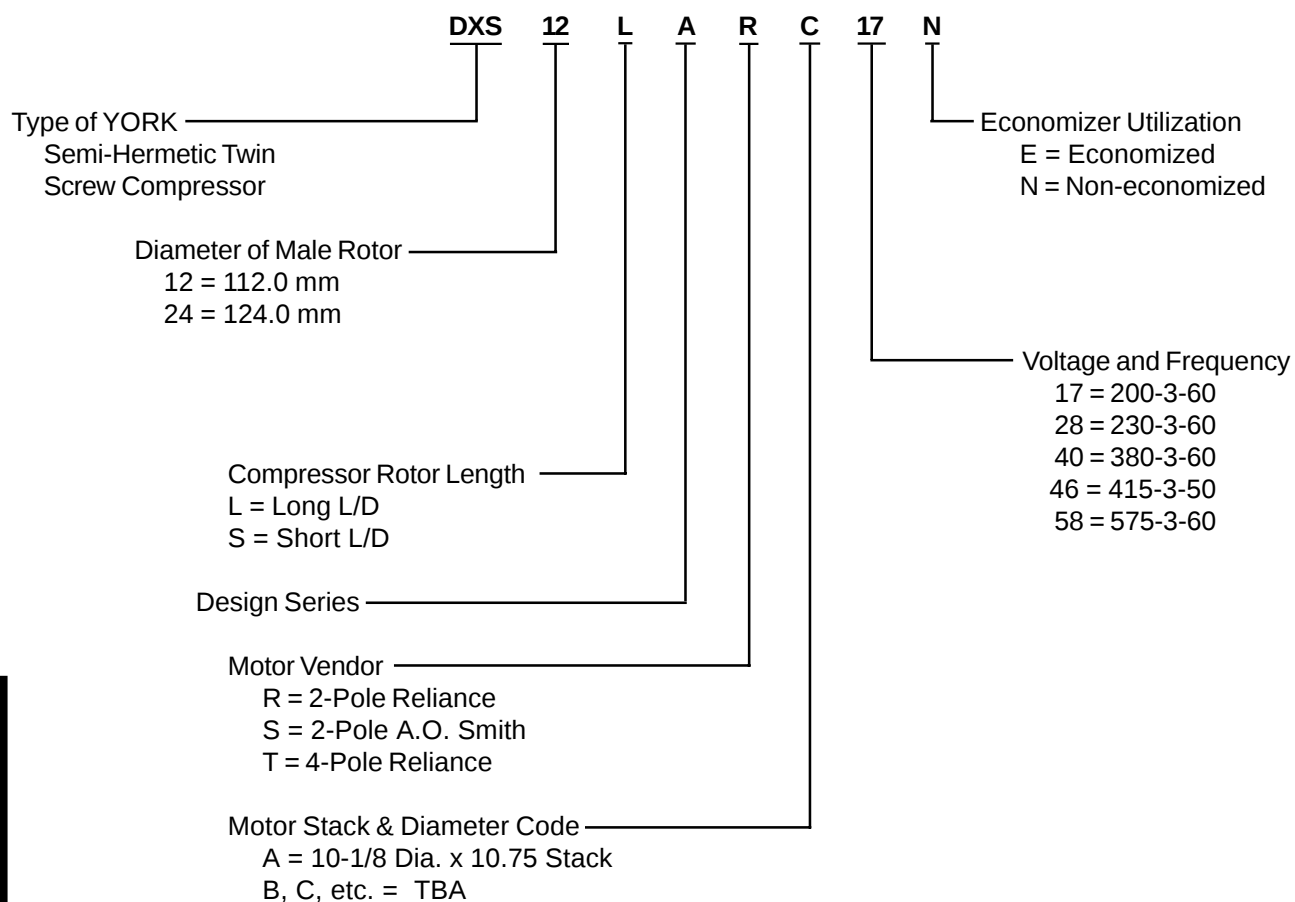
FIG. 11 – RELIEF VALVES AND HP CUTOUT SWITCH

TABLE 11 – RELIEF VALVES AND HP CUTOUT SWITCH

| ITEM | QUANTITY | DESCRIPTION                     | SYSTEM | ALL MODELS    |
|------|----------|---------------------------------|--------|---------------|
| 1    | 2        | Low Side Relief, Angle V 21 Bar | Both   | 022-10045-000 |
| 2    | 2        | HP Sw, NC, Auto Reset           | Both   | 025-30480-000 |
| 3    | 2        | Tube for 1                      | Both   | 375-30919-000 |

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## COMPRESSOR MODEL NOMENCLATURE



### COMPRESSOR WEIGHTS

| MM SIZE | WEIGHT (LBS)* | Kg  |
|---------|---------------|-----|
| 112     | 760           | 345 |
| 124     | 1175          | 533 |

\* LESS VALVES

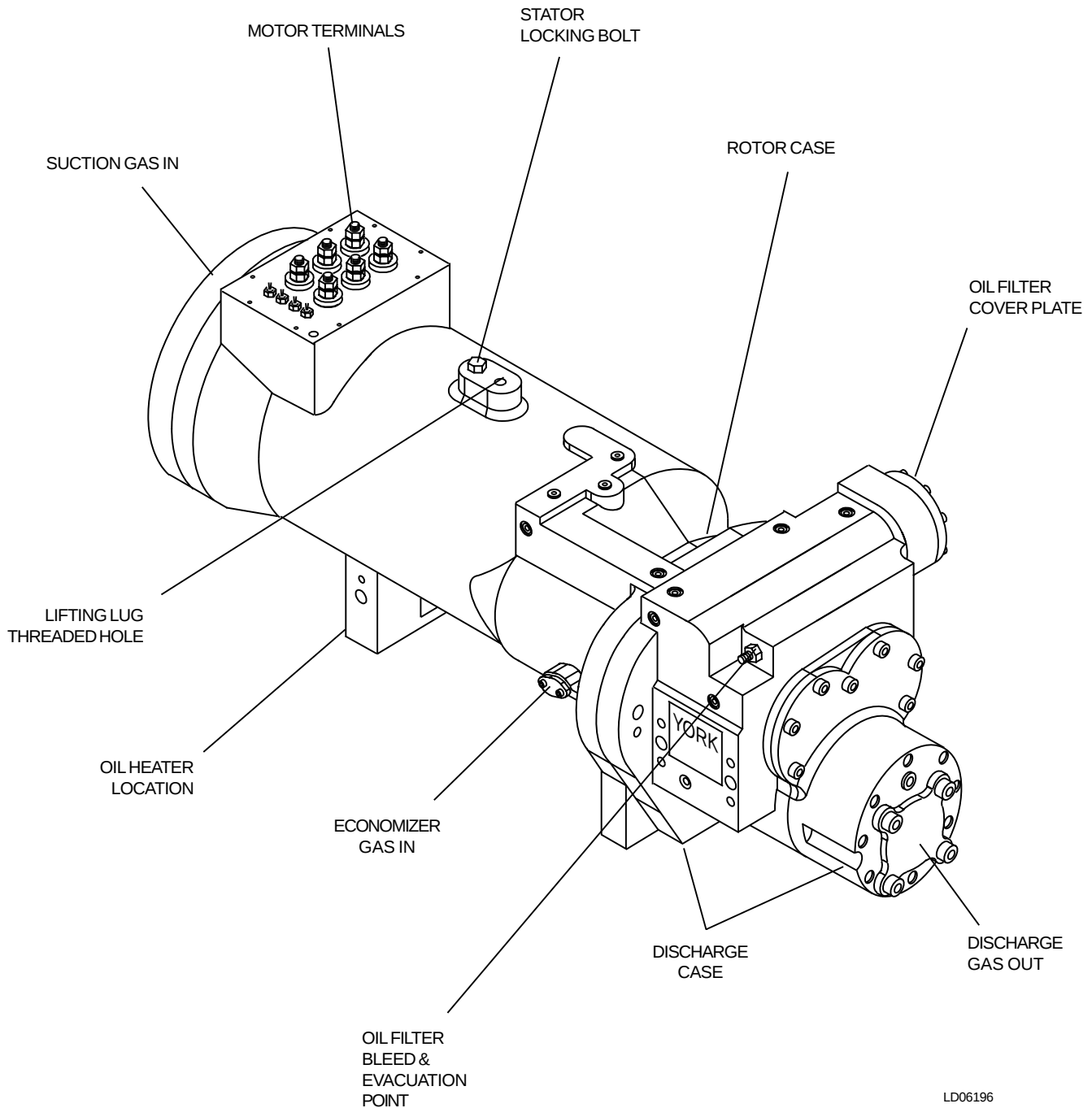
## COMPRESSOR PART NUMBERS

| COMPRESSOR PART NUMBERS |              |           |       |               |               |
|-------------------------|--------------|-----------|-------|---------------|---------------|
| UNIT                    | VOLTAGE CODE | SIZE (MM) |       | COMPRESSOR    |               |
|                         |              | SYS 1     | SYS 2 | SYSTEM # 1    | SYSTEM # 2    |
| YCAS0090                | -17          | 112       | 112   | 364-49096-012 | 364-49096-012 |
|                         | -28          | 112       | 112   | 364-49096-013 | 364-49096-013 |
|                         | -40          | 112       | 112   | 364-49096-014 | 364-49096-014 |
|                         | -46          | 112       | 112   | 364-49096-015 | 364-49096-015 |
|                         | -58          | 112       | 112   | 364-49096-016 | 364-49096-016 |
| YCAS0100                | -17          | 112       | 112   | 364-49096-112 | 364-49096-112 |
|                         | -28          | 112       | 112   | 364-49096-113 | 364-49096-113 |
|                         | -40          | 112       | 112   | 364-49096-114 | 364-49096-114 |
|                         | -46          | 112       | 112   | 364-49096-115 | 364-49096-115 |
|                         | -58          | 112       | 112   | 364-49096-116 | 364-49096-116 |
| YCAS0110                | -17          | 124       | 112   | 364-49095-012 | 364-49096-112 |
|                         | -28          | 124       | 112   | 364-49095-013 | 364-49096-113 |
|                         | -40          | 124       | 112   | 364-49095-014 | 364-49096-114 |
|                         | -46          | 124       | 112   | 364-49095-015 | 364-49096-115 |
|                         | -58          | 124       | 112   | 364-49095-016 | 364-49096-116 |
| YCAS0120                | -17          | 124       | 112   | 364-49095-112 | 364-49096-112 |
|                         | -28          | 124       | 112   | 364-49095-113 | 364-49096-113 |
|                         | -40          | 124       | 112   | 364-49095-114 | 364-49096-114 |
|                         | -46          | 124       | 112   | 364-49095-115 | 364-49096-115 |
|                         | -58          | 124       | 112   | 364-49095-116 | 364-49096-116 |

Compressor

- Compressor Change Out Kit  
(Includes gaskets and O-rings)  
464-49737-000 one per each compressor
- Compressor Isolator Pad Kit  
(Reduces sound and vibration)  
475-37845-000 one per each compressor or  
475-37845-001 one per each compressor  
(Not required for compressor change out)

# COMPRESSOR COMPONENTS



**FIG. 12 – DXS COMPRESSOR OUTLINE**

## COMPRESSOR COMPONENTS / RELATED PARTS

**TABLE 12 – COMPRESSOR ASSEMBLY (SEE FIG. 13, PAGE 26)**

| ITEM NO. | PART DESCRIPTION                      | PART NUMBER   |
|----------|---------------------------------------|---------------|
| 1        | CASE, ROTOR/MOTOR                     | 064-49122-000 |
| 2        | ROTOR, MALE                           | 064-48977-000 |
| 3        | ROTOR, FEMALE                         | 064-48978-000 |
| 5        | PISTON, CAPACITY CONTROL              | 064-49438-000 |
| 7        | KEY, MOUNTING                         | 029-22911-000 |
| 8        | SPRING, CAPACITY CONTROL              | 029-22908-000 |
| 9        | BEARING, RADIAL                       | 029-22905-000 |
| 13       | PLUG - HOLLOW HEX 1-7/8"              | 029-22735-000 |
| 14       | RING, RETAINING                       | 029-22743-000 |
| 18       | O-RING 3 - 908                        | 028-13856-000 |
| 28       | PLUG - HOLLOW HEX 9/16"               | 023-18922-000 |
| 29       | O-RING 3 - 906                        | 028-13855-000 |
| 30       | PLUG - 0.032 ORIFICE                  | 029-22716-000 |
| 31       | PLUG - 0.093 ORIFICE                  | 029-22717-000 |
| 32       | PLUG, HOLLOW HEX - 3/4"               | 023-18923-000 |
| 33       | GASKET, 7/8"                          | 028-13948-000 |
| 34       | PLATE, VALVE COVER                    | 064-49441-000 |
| 35       | SCREW, SOCKET HD. CAP - M8 x 25mm LG. | 021-19615-000 |
| 36       | O-RING 2 - 273                        | 028-13950-000 |
| 41       | O-RING 2 - 015                        | 028-13858-000 |
| 42       | VALVE, INTERNAL PRESSURE RELIEF       | 022-09711-000 |
| 202      | PLUG, ECONOMIZER                      | 064-49506-000 |
| 203      | RING, SUPPORT                         | 028-13961-000 |

- Compressor Change Out Kit  
(Includes gaskets and O-Rings)  
464-49737-000 one per each compressor

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

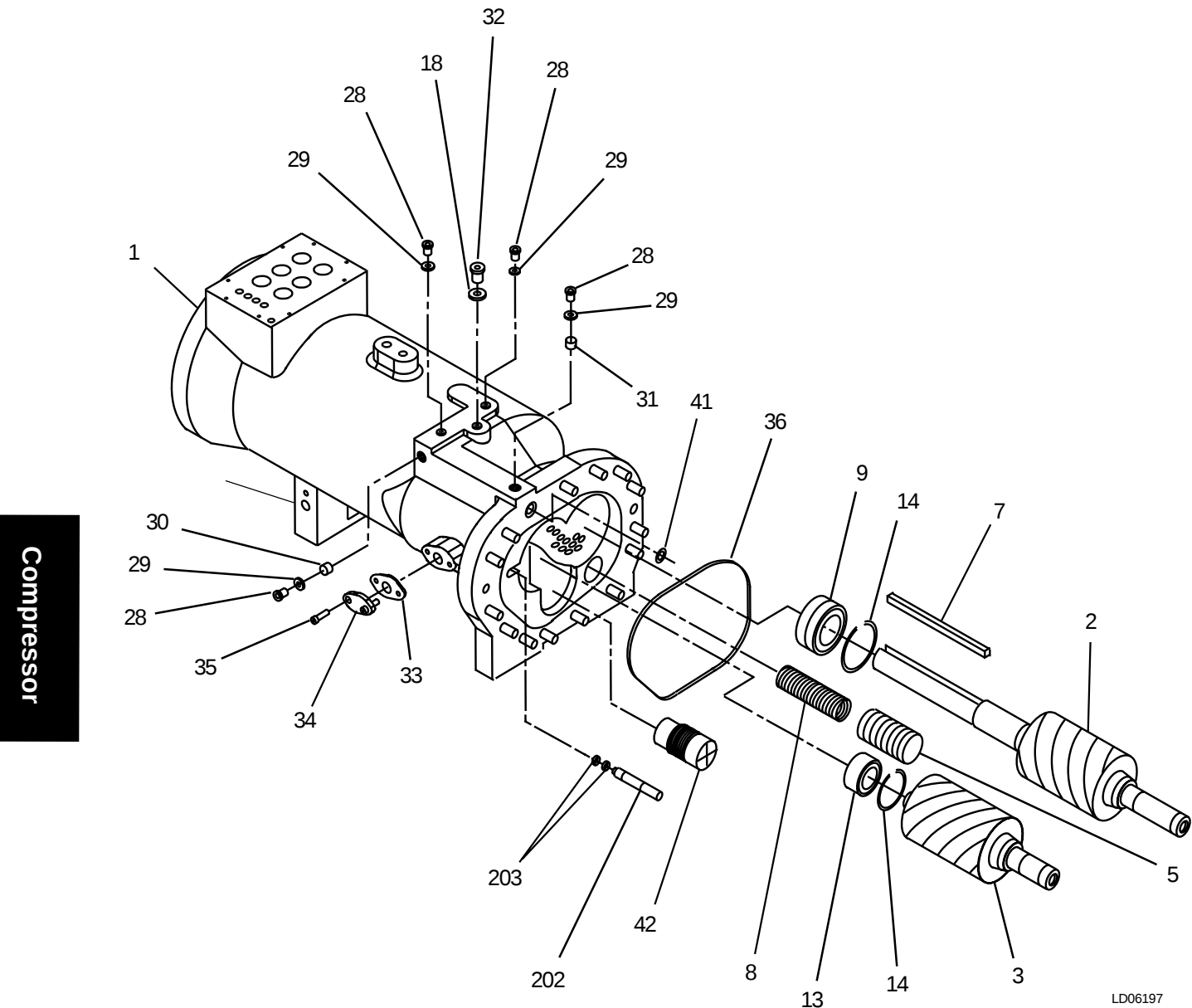
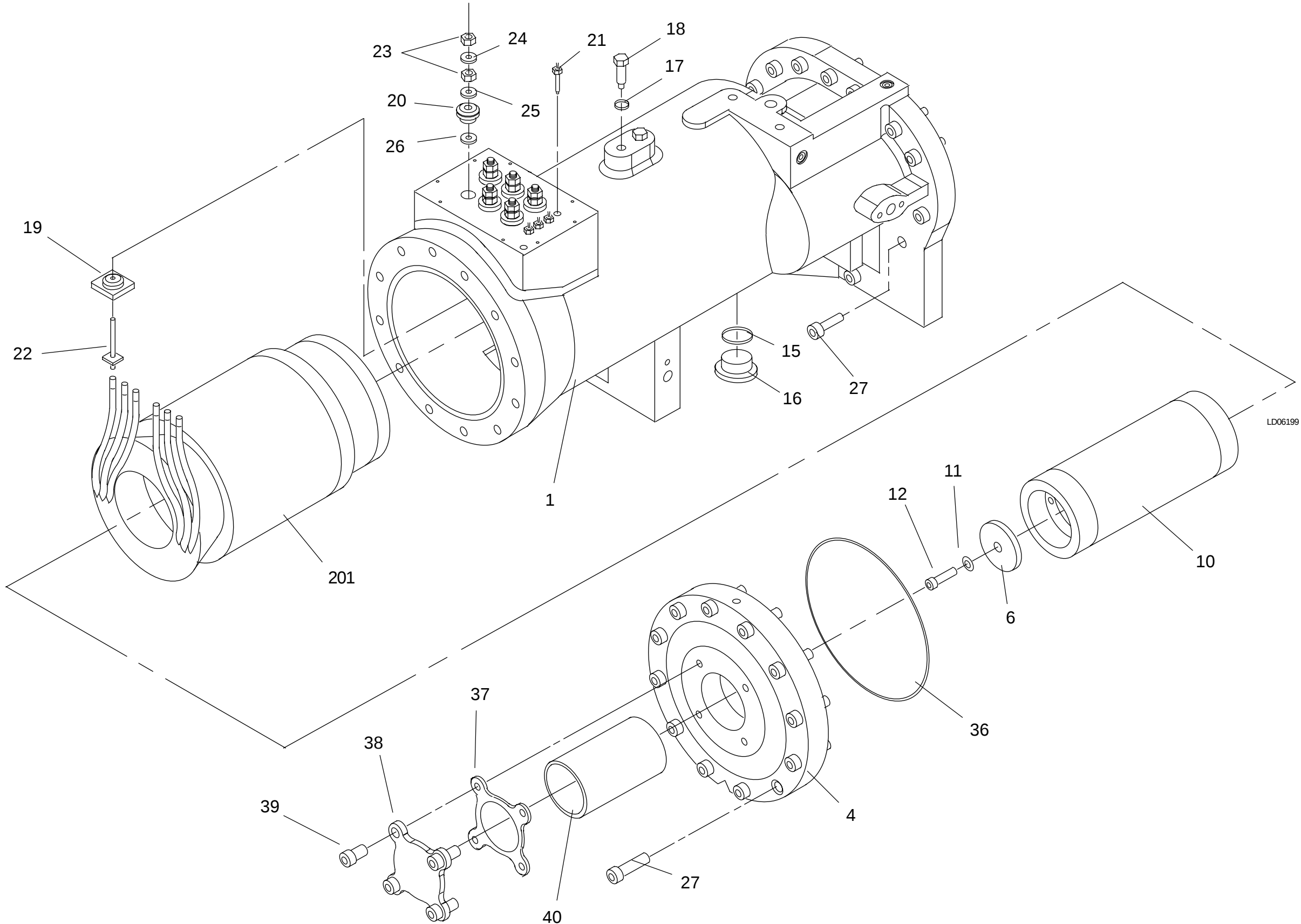


FIG. 13 – COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 12, PAGE 25)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)



Compressor

FIG. 14 – COMPRESSOR COMPONENTS - 112 MM COMPRESSOR SHOWN (REF. TABLE 13, PAGE 29)

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

Compressor

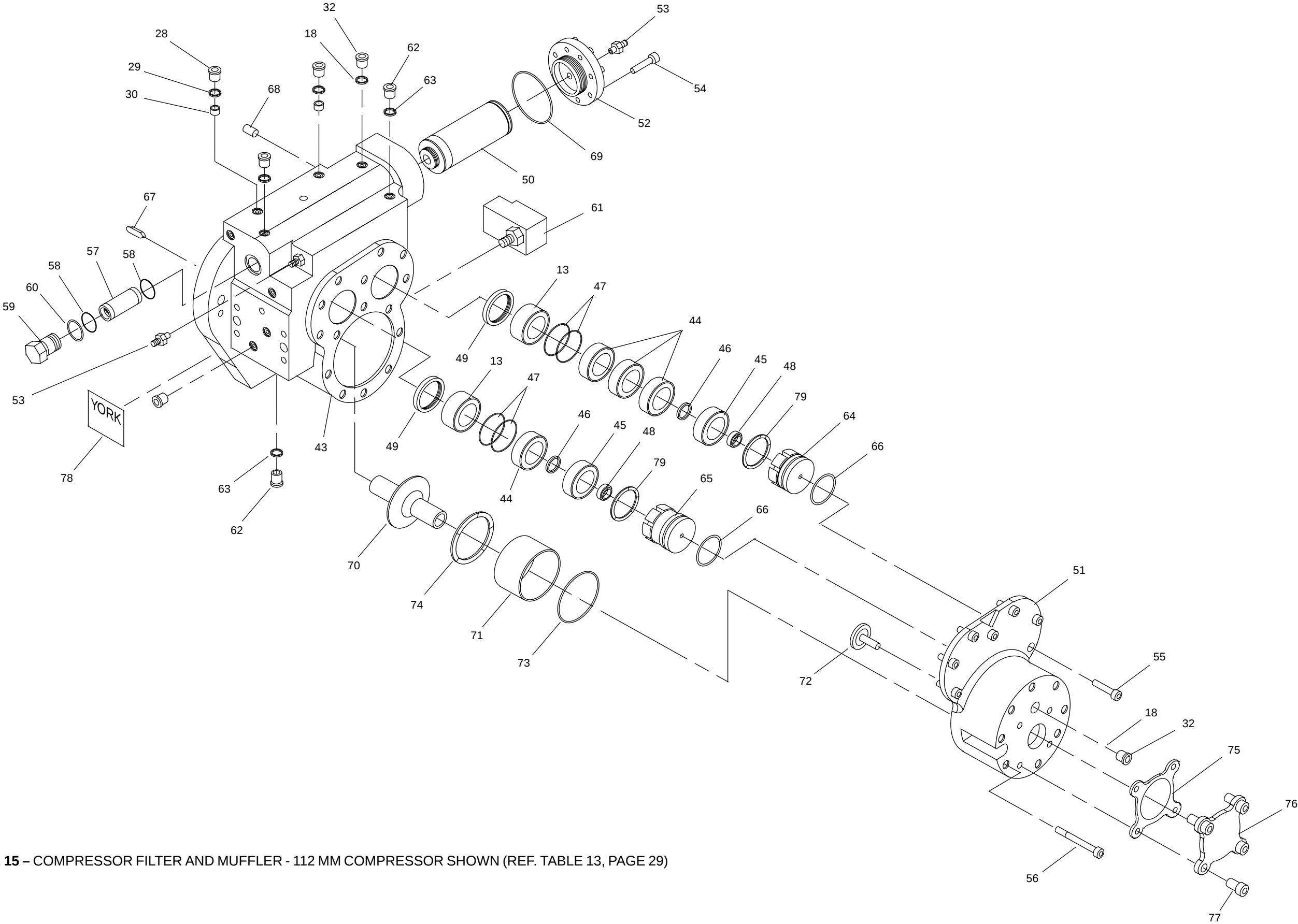


FIG. 15 – COMPRESSOR FILTER AND MUFFLER - 112 MM COMPRESSOR SHOWN (REF. TABLE 13, PAGE 29)

## COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

**TABLE 13 – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)**

| ITEM NO. | PART DESCRIPTION                       | PART NUMBER   |
|----------|----------------------------------------|---------------|
| 1        | CASE, ROTOR/MOTOR                      | 064-49122-000 |
| 4        | COVER, SUCTION                         | 064-49437-000 |
| 6        | WASHER, CLAMP                          | 064-49439-000 |
| 10       | ROTOR, MOTOR                           | 024-30912-000 |
| 11       | WASHER, LOCK - M10                     | 021-19364-000 |
| 12       | SCREW, SOCKET HD. CAP - M10 x 40mm LG. | 021-19363-000 |
| 13       | BEARING, RADIAL                        | 029-22735-000 |
| 15       | PLUG - HOLLOW HEX 1-7/8"               | 023-18926-000 |
| 16       | O-RING 3-924                           | 028-13865-000 |
| 17       | PIN, STATOR LOCKING                    | 064-49129-000 |
| 18       | O-RING 3 - 908                         | 028-13856-000 |
| 19       | INSULATOR, BOTTOM                      | 025-33200-000 |
| 20       | INSULATOR, TOP                         | 025-33201-000 |
| 21       | THERMISTOR, 7/16" - 20UNF - 2A         | 025-33202-000 |
| 22       | BOLT, TERMINAL                         | 021-19104-000 |
| 23       | NUT, HEAVY HEX - 7/16" - 20UNF         | 021-19102-000 |
| 24       | WASHER, LOCK - 7/16"                   | 021-19619-000 |
| 25       | WASHER, TERMINAL                       | 021-19117-000 |
| 26       | SEAL, TERMINAL                         | 028-13946-000 |
| 27       | SCREW, SOCKET HD. CAP - M12 x 55mm LG. | 021-19614-000 |
| 28       | PLUG - HOLLOW HEX 9/16"                | 023-18922-000 |
| 29       | O-RING 3 - 906                         | 028-13855-000 |
| 30       | PLUG - 0.032 ORIFICE                   | 029-22716-000 |
| 32       | PLUG, HOLLOW HEX - 3/4"                | 023-18923-000 |
| 36       | O-RING 2 - 273                         | 028-13950-000 |
| 37       | GASKET, 3                              | 028-13863-000 |
| 38       | PLATE, VALVE COVER                     | 064-49008-000 |
| 39       | SCREW, SOCKET HD. CAP - M16 x 30mm LG. | 021-19118-000 |
| 40       | STRAINER, SUCTION                      | 026-35623-000 |
| 43       | CASE, DISCHARGE                        | 064-49124-000 |
| 44       | BEARING, THRUST - 7306                 | 029-22906-000 |
| 45       | BEARING, REVERSE THRUST - 6306         | 029-22907-000 |
| 46       | SHIM, REVERSE THRUST SPACER (0.040)    | 029-22909-000 |
| 47       | SHIM, SPACER (0.007)                   | 029-22910-000 |
| 48       | NUT, BEARING CLAMP                     | 021-19362-000 |
| 49       | SEAL, LIP                              | 028-13949-000 |
| 50       | ELEMENT, OIL FILTER                    | 026-35601-000 |
| 51       | COVER, DISCHARGE                       | 064-49123-000 |

## COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

**TABLE 13 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)**

| ITEM NO. | PART DESCRIPTION                       | PART NUMBER   |
|----------|----------------------------------------|---------------|
| 52       | COVER, OIL FILTER                      | 064-49003-000 |
| 53       | VALVE, ACCESS - 7/16"                  | 022-09715-000 |
| 54       | SCREW, SOCKET HD. CAP - M8 x 30mm LG.  | 021-19115-000 |
| 55       | SCREW, SOCKET HD. CAP - M8 x 35mm LG.  | 021-19617-000 |
| 56       | SCREW, SOCKET HD. CAP - M8 x 80mm LG.  | 021-19616-000 |
| 57       | VALVE, OIL CONTROL                     | 022-09710-000 |
| 58       | O-RING 2 - 023                         | 028-13859-000 |
| 59       | PLUG, OIL RETURN VALVE                 | 064-49135-000 |
| 60       | O-RING 3 - 916                         | 028-13857-000 |
| 61       | VALVE, CAPACITY CONTROL                | 025-33205-000 |
| 62       | PLUG - HOLLOW HEX 7/16"                | 023-18921-000 |
| 63       | O-RING 3 - 904                         | 028-13854-000 |
| 64       | SLEEVE, M.R. SPACER BEARING            | 064-49511-000 |
| 65       | SLEEVE, F.R. SPACER BEARING            | 064-49512-000 |
| 66       | O-RING 2 - 148                         | 028-13947-000 |
| 67       | PIN, DOWEL - 12mm x 40mm LG. (SPECIAL) | 029-22712-000 |
| 68       | PIN, DOWEL - 12mm x 40mm LG.           | 029-22713-000 |
| 69       | O-RING 2 - 152                         | 028-13849-000 |
| 70       | ORIFICE, MUFFLER                       | 064-49515-000 |
| 71       | SPACER, MUFFLER                        | 064-49514-000 |
| 72       | BUTTON, CHECK VALVE                    | 064-49507-000 |
| 73       | O-RING 2 - 155                         | 028-13962-000 |
| 74       | SPRING, MUFFLER PRELOAD                | 029-22912-000 |
| 75       | GASKET 1-1/2"                          | 028-13862-000 |
| 76       | PLATE, VALVE COVER                     | 064-49010-000 |
| 77       | SCREW, SOCKET HD. CAP - M12 x 30mm LG. | 021-19119-000 |
| 78       | PLATE, DATA                            | 029-22722-000 |
| 79       | SPRING, BEARING PRELOAD                | 029-22913-000 |
| 201      | STATOR, MOTOR - 17                     | 024-30911-002 |
|          | - 28                                   | 024-30911-003 |
|          | - 40                                   | 024-30911-004 |
|          | - 46                                   | 024-30911-005 |
|          | - 58                                   | 024-30911-006 |

**TABLE 14 – COMPRESSOR OIL AND FILTER COMPONENTS  
(SEE FIG. 15, PAGES 27B AND 28)**

| ITEM NO.         | QTY PER<br>COMP | DESCRIPTION     | MODEL<br>YCAS0090 - YCAS0120 |
|------------------|-----------------|-----------------|------------------------------|
| 50 <sup>S</sup>  | 1               | FILTER, OIL     | 026-35601-000                |
| 69 <sup>S</sup>  | 1               | O-RING          | 028-13849-000                |
| OIL <sup>S</sup> | 5 GAL           | OIL, TYPE L POE | 011-00592-000                |

<sup>S</sup>Recommended Spare Part

## COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

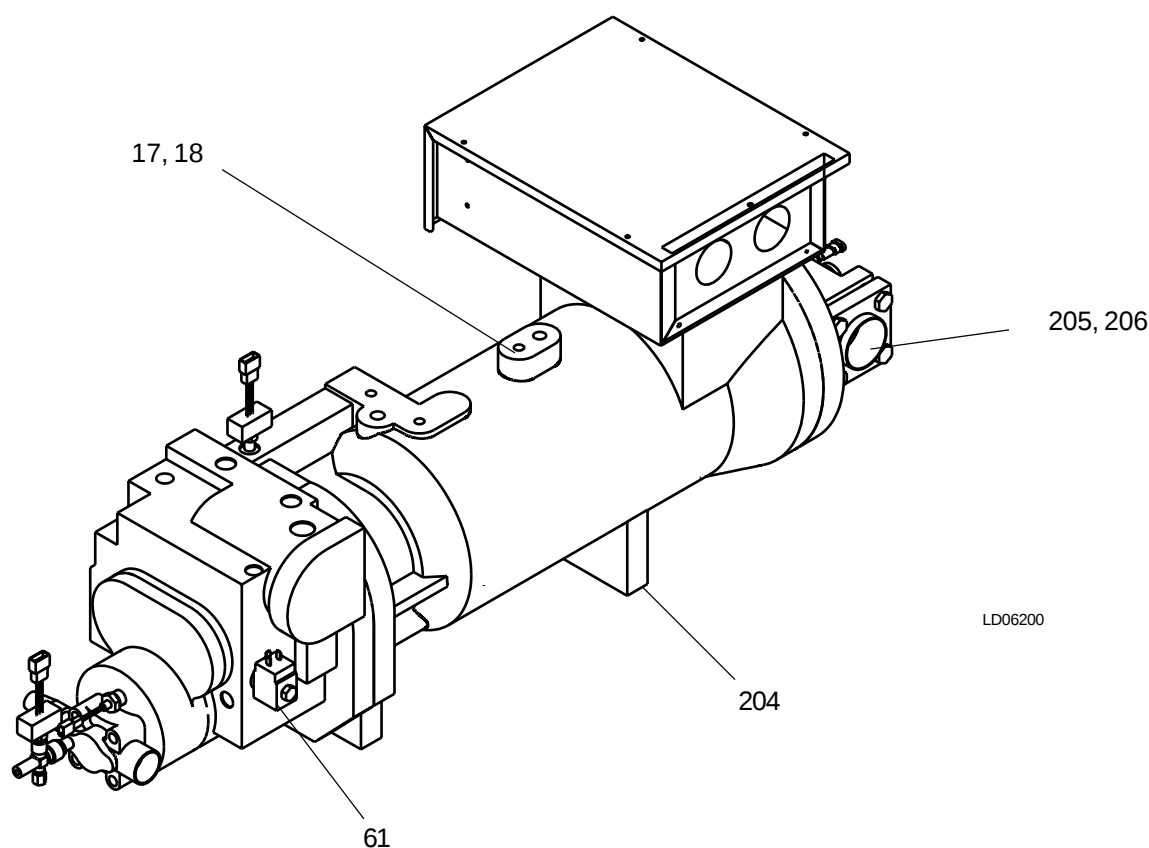
**TABLE 15 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 16)**

| ITEM NUMBER     | QUANTITY | SYSTEM | DESCRIPTION               | VOLTAGE CODE | PART NUMBER   |
|-----------------|----------|--------|---------------------------|--------------|---------------|
| 17              | 2        | 1, 2   | Lock Pin, Stator, EC 1099 | ALL          | 064-49129-000 |
| 18              | 2        | 1, 2   | O-ring, Lock Pin          | ALL          | 028-13856-000 |
| 61 <sup>s</sup> | 2        | 1, 2   | Valve, Capacity Control   | ALL          | 025-33205-000 |
| 204             | 2        | 1, 2   | Heater, Compressor 124    | 120V         | 025-32938-000 |
|                 |          |        | Heater, Compressor 112    | 120V         | 025-34511-000 |

<sup>s</sup> Recommended Spare Part

**TABLE 16 – COMPRESSOR STOP VALVES AND GASKETS (SEE FIG. 16)**

| ITEM NO. | DESCRIPTION         | APPLICATION                            | PART NUMBER   |
|----------|---------------------|----------------------------------------|---------------|
| 205      | Stop Valve, 1-3/8   | 112mm discharge; 124mm Economizer Port | 022-03727-003 |
| 206      | Gasket, 1-3/8 Valve |                                        | 028-13972-000 |
| 205      | Stop Valve, 2-1/8   | 124mm discharge                        | 022-01393-001 |
| 206      | Gasket, 2-1/8       |                                        | 028-13971-000 |
| 205      | Stop Valve, 2-5/8   | 112mm and 124mm suction                | 022-09777-001 |
| 206      | Gasket, 2-5/8 Valve |                                        | 028-13973-000 |

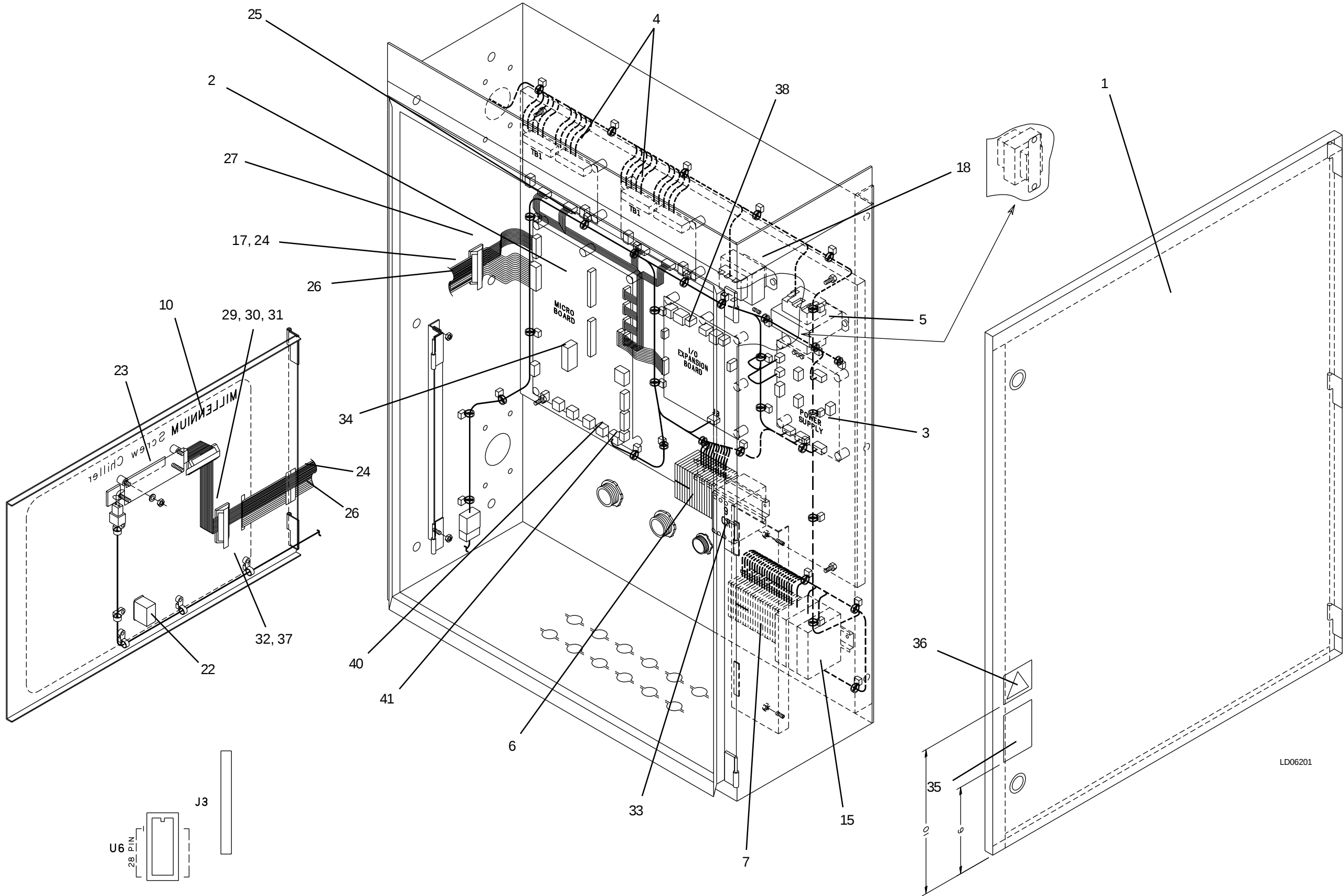

**FIG. 16 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 15 AND 16)**

## MICRO PANEL COMPONENTS

**TABLE 17– MICRO PANEL COMPONENTS (SEE FIGS.17 AND 18, PAGES 33, 33A, 33B AND 34)**

| ITEM NO.  | QUANTITY | DESCRIPTION                  | PART NO.      | NOTE                                |
|-----------|----------|------------------------------|---------------|-------------------------------------|
| <b>1</b>  | 1        | Door for Micro-Compartment   | RAM-202310    | 2-Piece Bolted Control/Option Panel |
|           | 1        | Door for Options Compartment | RAM-202311    |                                     |
| <b>1</b>  | 1        | Door for Micro-Compartment   | N/A           | 1-Piece Control/Option Panel        |
|           | 1        | Door for Options Compartment | N/A           |                                     |
| <b>2</b>  | 1        | MicroBoard                   | 031-01095-002 |                                     |
| <b>3</b>  | 1        | Power Supply Board           | 031-01094-000 |                                     |
| <b>4</b>  | 2        | Relay Circuit Board          | 031-01093-000 |                                     |
| <b>5</b>  | 1        | Transformer, Control 2T      | 025-27911-000 |                                     |
| <b>6</b>  | 1        | Kit, Terminal Block          | 025-33760-000 |                                     |
| <b>7</b>  | 1        | Kit, Terminal Block          | 025-33761-000 |                                     |
| <b>8</b>  | 2        | Catch, Magnetic (Not Shown)  | 029-20878-000 |                                     |
| <b>10</b> | 1        | Tag, Identification          | 035-15183-000 |                                     |
| <b>15</b> | 3        | Circuit Breaker, 6A          | 024-30913-000 |                                     |
| <b>17</b> | 2        | Strap, Cable                 | 025-18167-000 |                                     |
| <b>18</b> | 1        | Transformer, Control 3T      | 025-18452-000 |                                     |
| <b>22</b> | 2        | Switch, On/Off               | 024-25517-000 |                                     |
| <b>23</b> | 1        | Display                      | 031-01110-000 |                                     |
| <b>24</b> | 1        | Ribbon Cable                 | 071-02253-251 |                                     |
| <b>25</b> | 4        | Ribbon Cable                 | 071-02253-252 |                                     |
| <b>26</b> | 1        | Ribbon Cable                 | 071-02253-253 |                                     |
| <b>27</b> | 3        | Clamp, Ribbon Wire           | 025-25156-000 |                                     |
| <b>28</b> | 1        | Transformer, Control 4T      | 025-30889-000 |                                     |
| <b>29</b> | 4        | Spacer, Nylon                | 021-17575-000 |                                     |
| <b>30</b> | 1        | Harness, Hinged Panel        | 571-01226-211 |                                     |
| <b>31</b> | 1        | Harness, Main Panel          | 571-02253-201 |                                     |
| <b>32</b> | 1        | Connector, Cable Strap       | 025-08301-000 |                                     |
| <b>33</b> | 1        | Relay, Control               | 024-25598-000 |                                     |
| <b>34</b> | 1        | EPROM                        | 031-01798-001 |                                     |
| <b>35</b> | 1        | Label, Caution               | 035-15989-000 |                                     |
| <b>36</b> | 1        | Label, Warning               | 035-11929-000 |                                     |
| <b>37</b> | 2        | Connector, Cable Strap       | 025-12282-000 |                                     |
| <b>38</b> | 1        | I/O Expansion Board          | 031-01781-000 |                                     |
| <b>39</b> | 1        | Ribbon Cable                 | 071-02253-254 |                                     |
| <b>40</b> | Varies   | Plug, 9 Pin                  | 025-28383-000 | See Pages 33, 33A, 33B and 34       |
| <b>41</b> | Varies   | Plug, 12 Pin                 | 025-28384-000 | See Pages 33, 33A, 33B and 34       |

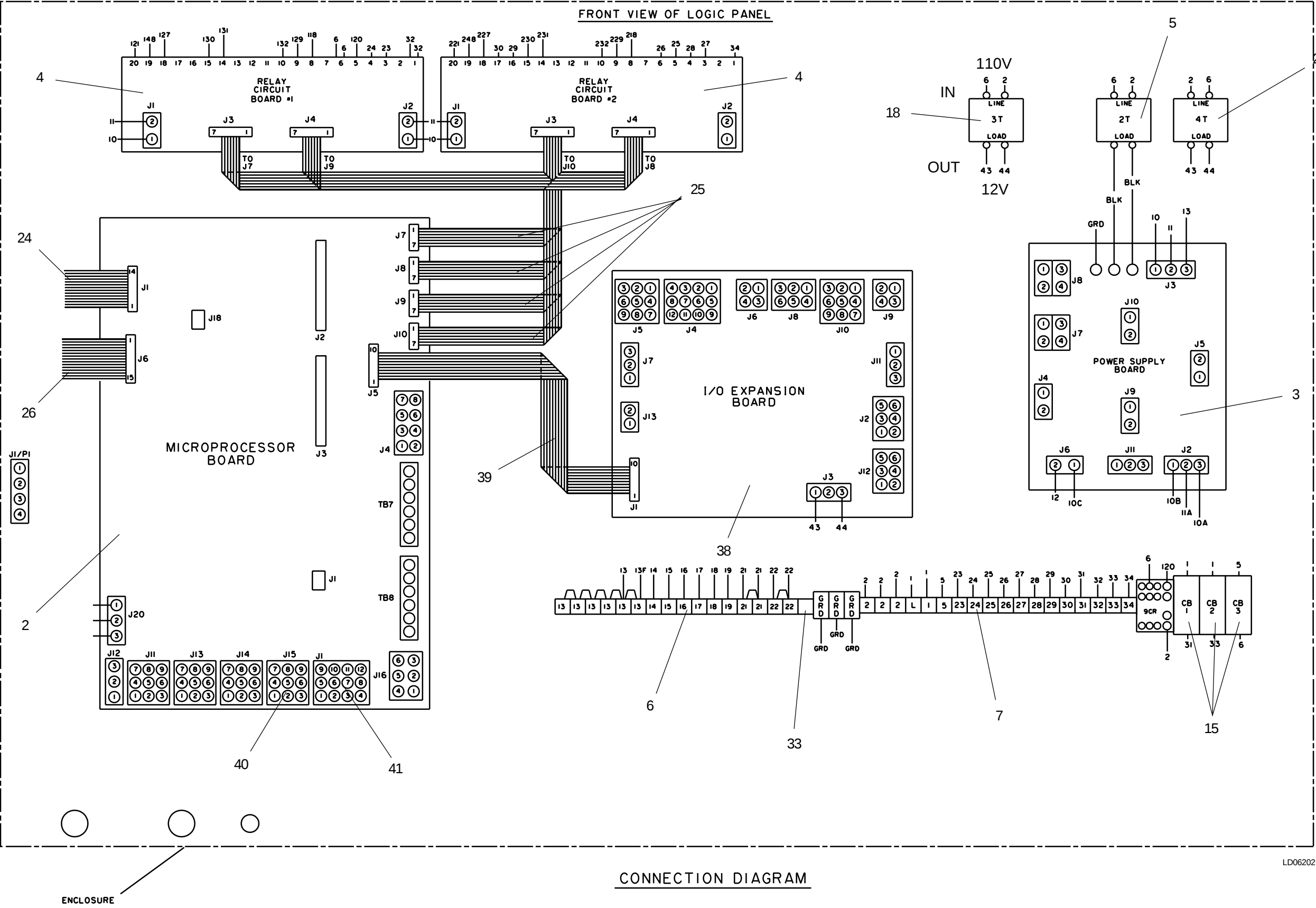
MICRO PANEL COMPONENTS (CONT'D)



Micro Panel

FIG. 17 – MICRO PANEL AND BOX

MICRO PANEL COMPONENTS (CONT'D)



Micro Panel

FIG. 18 – MICRO PANEL CONNECTION DIAGRAM

## SENSOR HARNESS

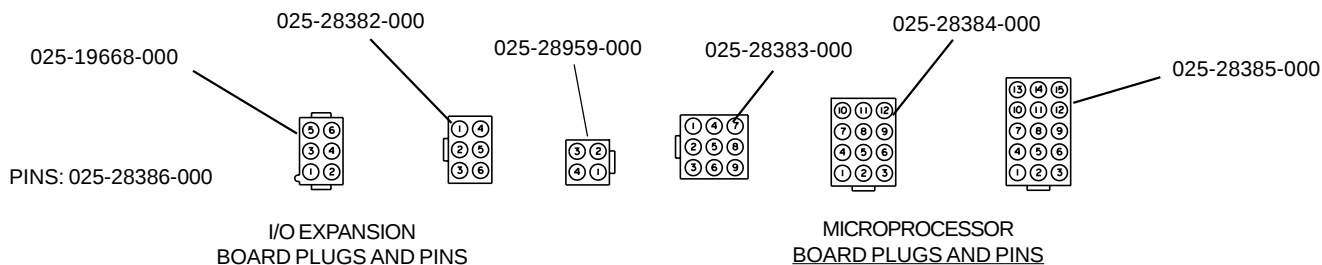
### CHILLER MODELS YCAS0090 AND YCAS0100

**TABLE 18 – SENSOR HARNESS WIRING (SEE FIGS. 19, 20 AND 21, PAGES 35, 36 AND 37)**

| BOARD LOCATION | CABLE NO. | WIRE COLOR | PLUG PIN NO. | FUNCTION                      | HARNESS ASSY  |
|----------------|-----------|------------|--------------|-------------------------------|---------------|
| MICRO P13      | 1         | RED        | 4            | SYS #1<br>SUCTION<br>PRESSURE | 375-33776-401 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 2         | RED        | 5            | SYS #1<br>OIL<br>PRESSURE     | 375-33776-403 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P14      | 3         | RED        | 4            | SYS #2<br>SUCTION<br>PRESSURE | 375-33776-402 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 4         | RED        | 5            | SYS #2<br>OIL<br>PRESSURE     | 375-33776-404 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P11      | 5         | RED        | 7            | LEAVING CHILLED<br>WATER      | 375-33776-415 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                | 6         | RED        | 8            | ENTERING CHILLED<br>WATER     | 375-33776-416 |
|                |           | BLK        | 5            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| MICRO P15      | 8         | RED        | 9            | OUTSIDE AIR TEMP.             | 375-33776-417 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                |           | RED        | 5            |                               |               |
|                | 9         | BLK        | 3            | SYS #1<br>DISCH.<br>PRESSURE  | 375-33776-405 |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
|                |           | RED        | 4            |                               |               |
| MICRO P16      | 10        | BLK        | 1            | SYS #2<br>DISCH.<br>PRESSURE  | 375-33776-406 |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                |           | RED        | 5            |                               |               |
|                | 11        | BLK        | 4            | SYS #1<br>SUCTION TEMP.       | 375-33776-411 |
|                |           | DRAIN      | 3            |                               |               |
|                |           | RED        | 2            |                               |               |
|                |           | BLK        | 6            |                               |               |
| I/O P10        | 16        | RED        | 4            | SYS #2<br>SUCTION TEMP.       | 375-33776-412 |
|                |           | BLK        | 7            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                |           | RED        | 5            | SYS #1<br>OIL TEMP.           | 375-33776-421 |
|                | 17        | BLK        | 6            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| I/O P8         | 12        | RED        | 2            | SYS #2<br>OIL TEMP.           | 375-33776-422 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                |           | RED        | 5            | SYS #1<br>DISCH. TEMP.        | 375-33776-413 |
|                | 13        | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| I/O P2         | 31        | RED (47)   | 1            | SYS #2<br>DISCH. TEMP.        | 375-33776-414 |
|                |           | BLK (48)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
|                |           | RED (49)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-423 |
| I/O P12        | 32        | BLK (50)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
|                |           | RED (49)   | 1            |                               |               |
|                |           | BLK (50)   | 2            | SYS #1<br>SLIDE VALVE         | 375-33776-424 |
|                |           | DRAIN      | 6            |                               |               |
|                |           | RED (49)   | 1            |                               |               |
|                |           | BLK (50)   | 2            |                               |               |

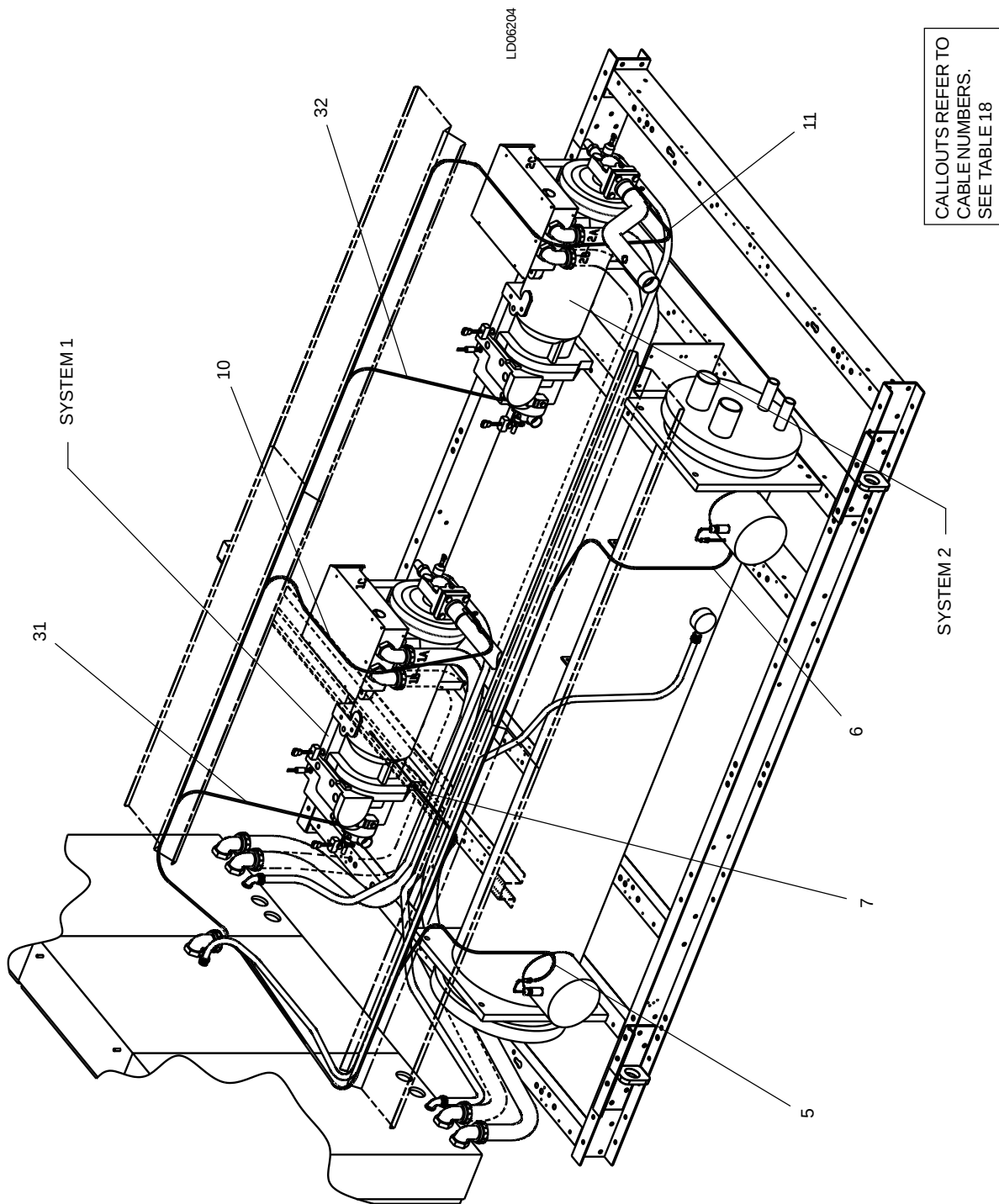
**Note:**

Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)

**FIG. 19 – SENSOR HARNESS PLUGS AND PINS**

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**SENSOR HARNESS (CONT'D)**  
**CHILLER MODELS YCAS0090 AND YCAS0100**



**FIG. 20 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)**

SENSOR HARNESS (CONT'D)  
CHILLER MODELS YCAS0090 AND YCAS0100

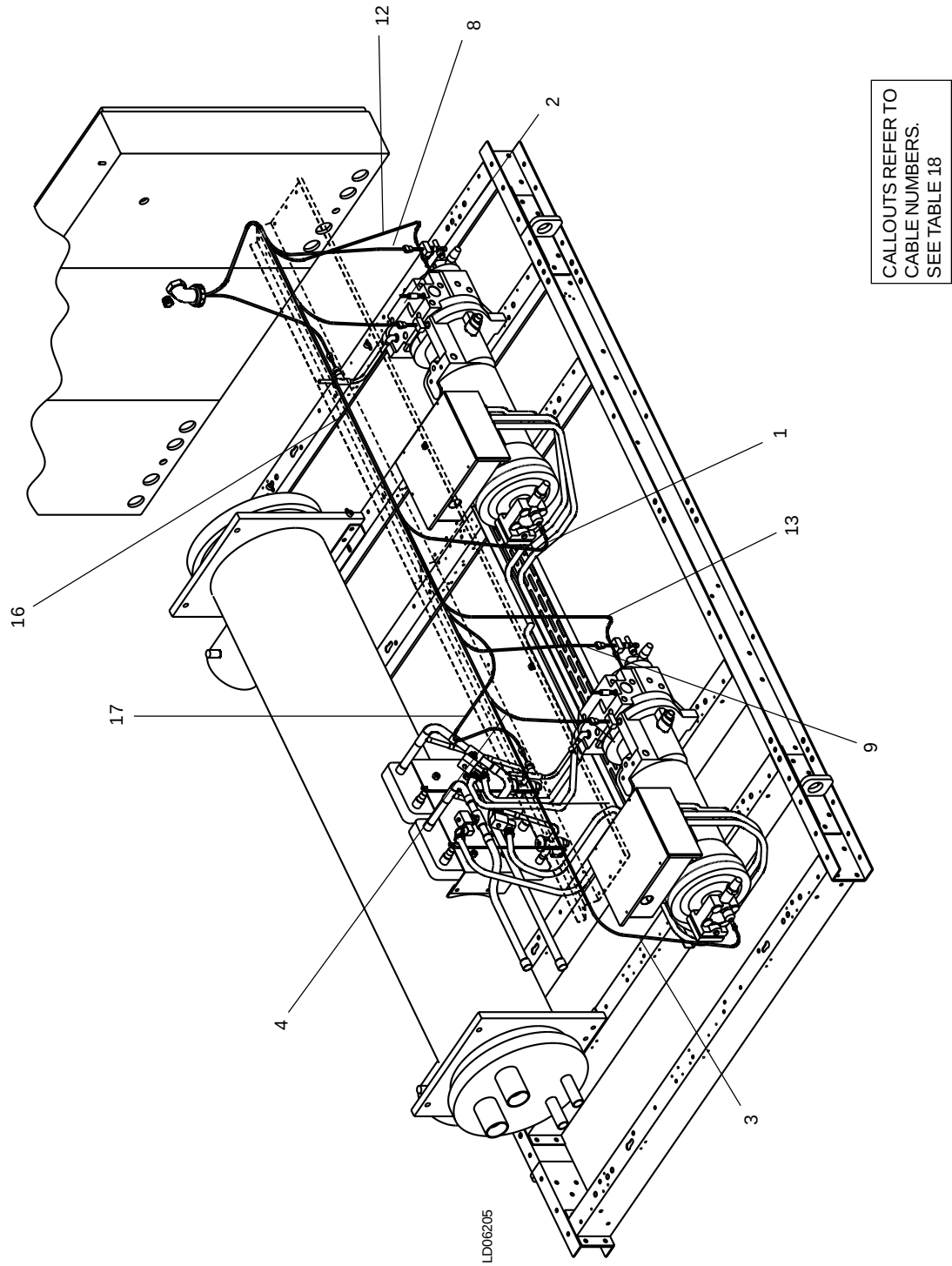


FIG. 21 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)

Micro Panel

## SENSOR HARNESS (CONT'D)

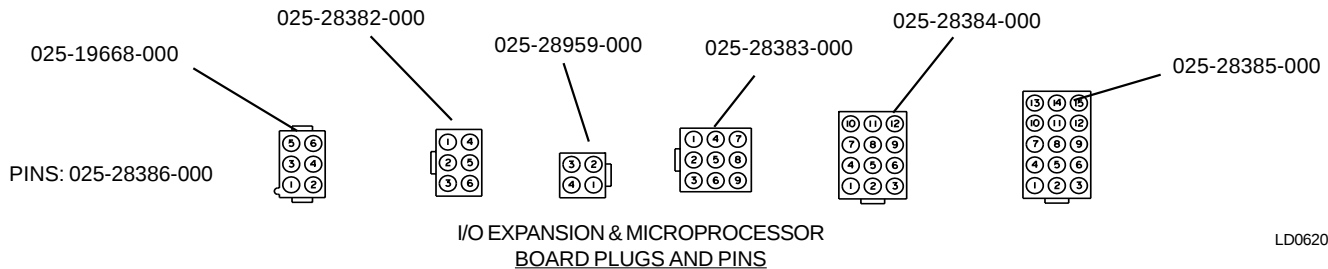
### CHILLER MODELS YCAS0110 AND YCAS0120

**TABLE 19 – SENSOR HARNESS WIRING (SEE FIGS. 22, 23 AND 24, PAGES 38, 39 AND 40)**

| BOARD LOCATION | CABLE NO. | WIRE COLOR | PLUG PIN NO. | FUNCTION                      | HARNESS ASSY  |
|----------------|-----------|------------|--------------|-------------------------------|---------------|
| MICRO P13      | 1         | RED        | 4            | SYS #1<br>SUCTION<br>PRESSURE | 375-33776-401 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                | 2         | DRAIN      | 2            | SYS #1<br>OIL<br>PRESSURE     | 375-33776-403 |
|                |           | RED        | 5            |                               |               |
|                |           | BLK        | 3            |                               |               |
| MICRO P14      | 3         | WHT        | 8            | SYS #2<br>SUCTION<br>PRESSURE | 375-33776-402 |
|                |           | DRAIN      | 9            |                               |               |
|                |           | RED        | 4            |                               |               |
|                | 4         | BLK        | 1            | SYS #2<br>OIL<br>PRESSURE     | 375-33776-404 |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| MICRO P11      | 5         | RED        | 5            | LEAVING CHILLED<br>WATER      | 375-33776-415 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                | 6         | RED        | 8            | ENTERING CHILLED<br>WATER     | 375-33776-416 |
|                |           | BLK        | 5            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| MICRO P15      | 8         | RED        | 9            | OUTSIDE AIR TEMP.             | 375-33776-417 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 9         | RED        | 5            | SYS #1<br>DISCH.<br>PRESSURE  | 375-33776-405 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
| MICRO P16      | 10        | DRAIN      | 9            | SYS #2<br>DISCH.<br>PRESSURE  | 375-33776-406 |
|                |           | RED        | 4            |                               |               |
|                |           | BLK        | 1            |                               |               |
|                | 11        | RED        | 2            | SYS #1<br>SUCTION TEMP.       | 375-33776-411 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
| I/O P10        | 16        | RED        | 2            | SYS #2<br>SUCTION TEMP.       | 375-33776-412 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 17        | RED        | 4            | SYS #1<br>OIL TEMP.           | 375-33776-421 |
|                |           | BLK        | 7            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| I/O P8         | 12        | RED        | 5            | SYS #2<br>OIL TEMP.           | 375-33776-422 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 13        | RED        | 2            | SYS #1<br>DISCH. TEMP.        | 375-33776-413 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
| I/O P2         | 31        | RED        | 5            | SYS #2<br>DISCH. TEMP.        | 375-33776-414 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 32        | RED (47)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-423 |
|                |           | BLK (48)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
| I/O P12        | 32        | RED (49)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-424 |
|                |           | BLK (50)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |

**Note:**

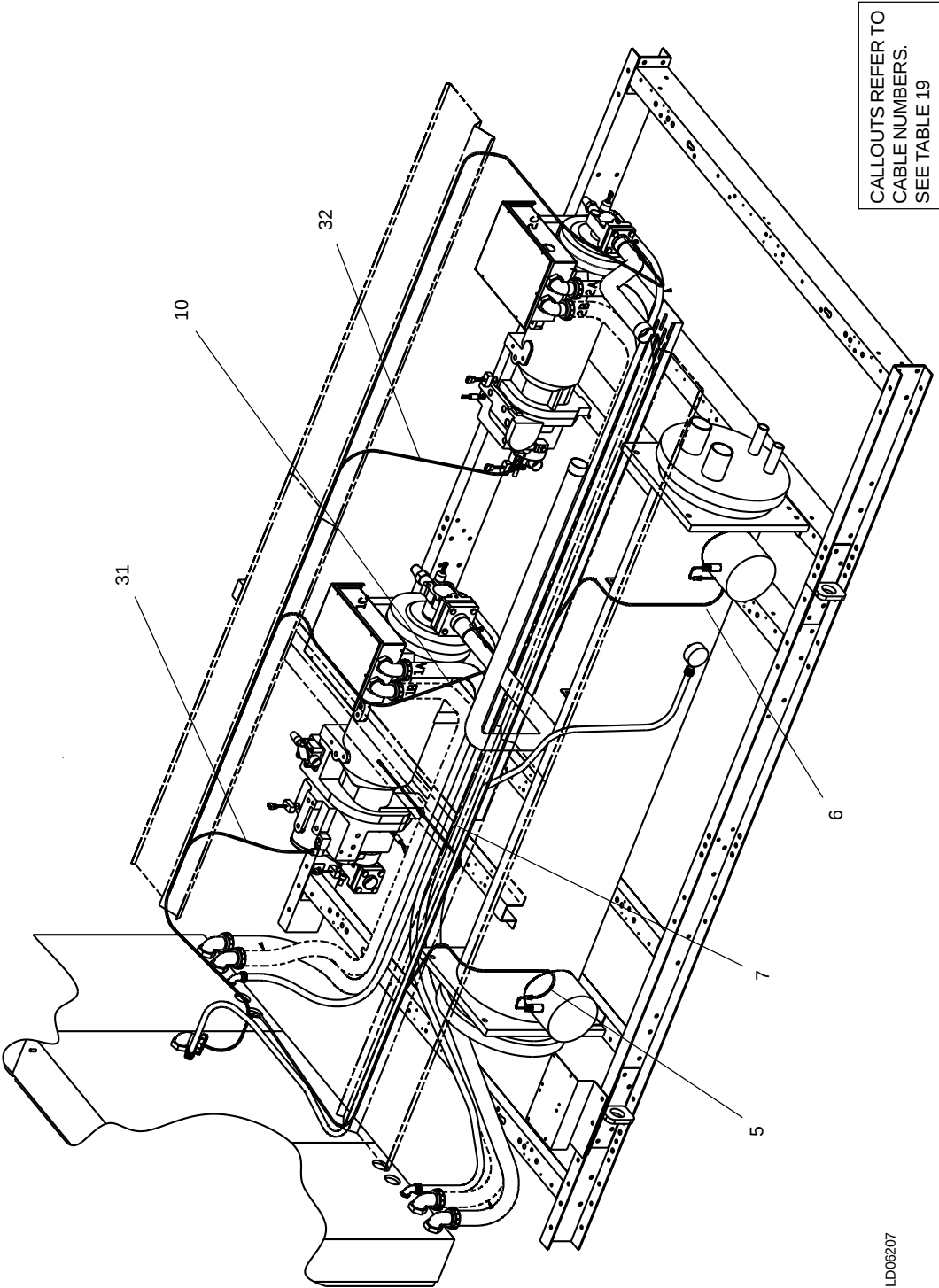
Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



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**FIG. 22 – SENSOR HARNESS PLUGS AND PINS**

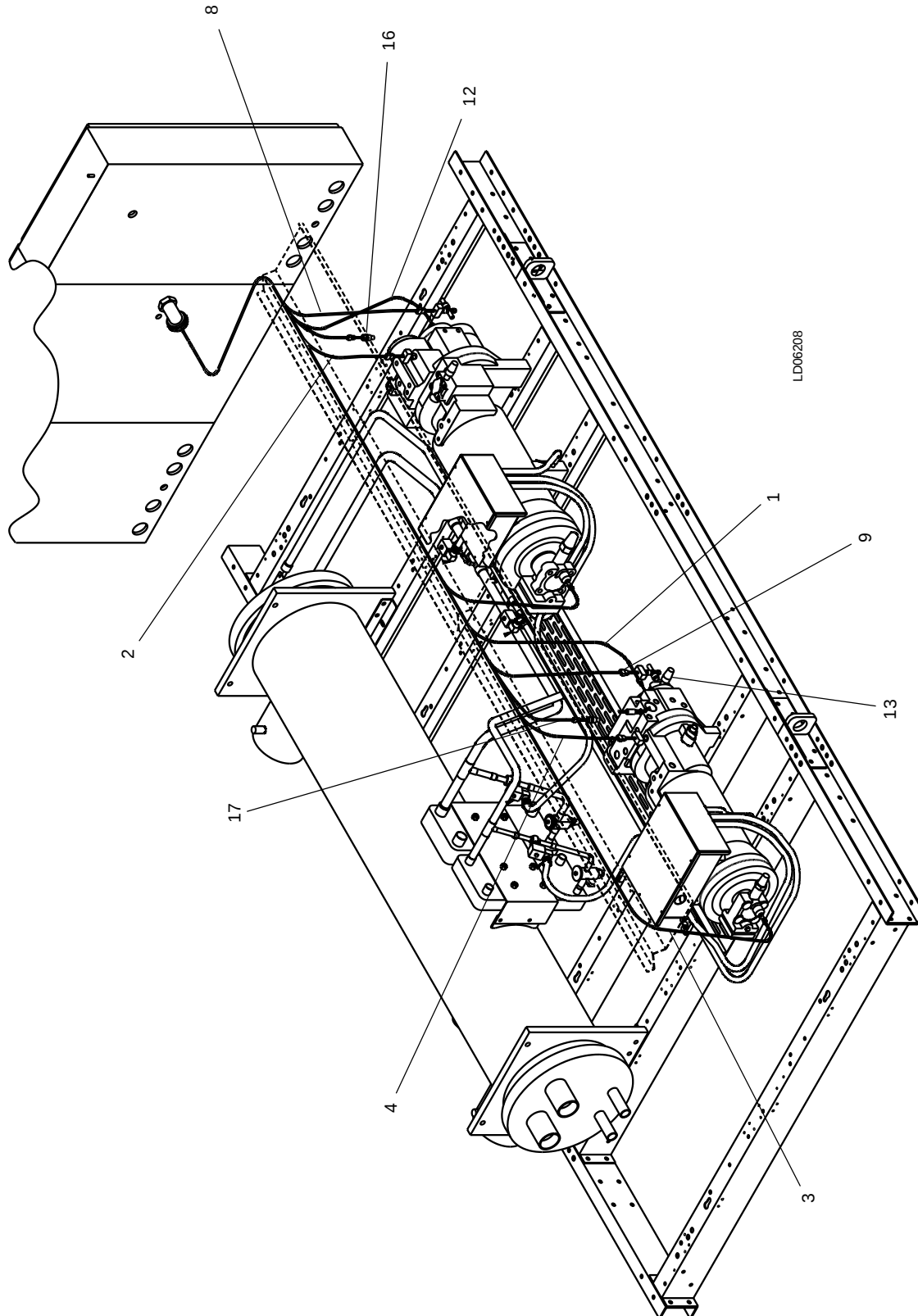
**SENSOR HARNESS (CONT'D)**  
**CHILLER MODELS YCAS0110 AND YCAS0120**



**FIG. 23 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)**

**Micro Panel**

# **SENSOR HARNESS (CONT'D)** **CHILLER MODELS YCAS0110 AND YCAS0120**



**FIG. 24 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)**

## SENSOR HARNESS - REMOTE COOLER

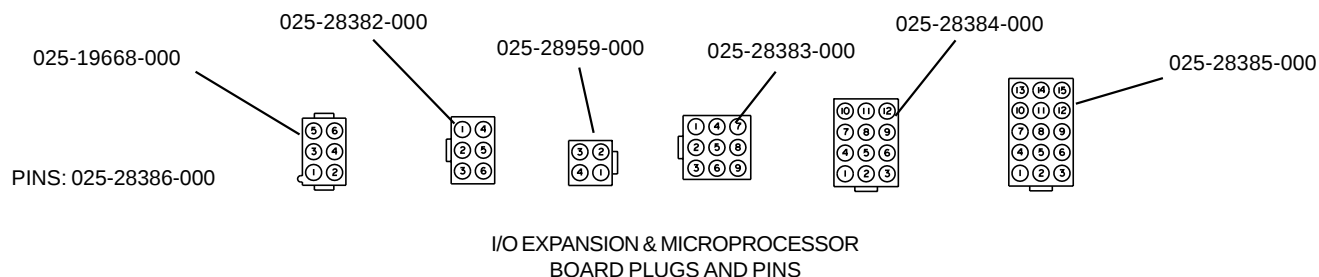
### CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

**TABLE 20 – SENSOR WIRING (SEE FIGS. 25, 26 AND 27, PAGES 41, 42 AND 43)**

| BOARD LOCATION | CABLE NO. | WIRE COLOR | PLUG PIN NO. | FUNCTION                      | HARNESS ASSY  |
|----------------|-----------|------------|--------------|-------------------------------|---------------|
| MICRO P13      | 1         | RED        | 4            | SYS #1<br>SUCTION<br>PRESSURE | 375-33776-401 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 2         | RED        | 5            | SYS #1<br>OIL<br>PRESSURE     | 375-33776-403 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P14      | 3         | RED        | 4            | SYS #2<br>SUCTION<br>PRESSURE | 375-33776-402 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 4         | RED        | 5            | SYS #2<br>OIL<br>PRESSURE     | 375-33776-404 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P11      | 7         | RED        | 9            | OUTSIDE AIR TEMP.             | 375-33776-417 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| MICRO P15      | 8         | RED        | 5            | SYS #1<br>DISCH.<br>PRESSURE  | 375-33776-405 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
|                | 9         | RED        | 4            | SYS #2<br>DISCH.<br>PRESSURE  | 375-33776-406 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| I/O P10        | 16        | RED        | 4            | SYS #1<br>OIL TEMP.           | 375-33776-411 |
|                |           | BLK        | 7            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 17        | RED        | 5            | SYS #2<br>OIL TEMP.           | 375-33776-412 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| I/O P8         | 12        | RED        | 2            | SYS #1<br>DISCH. TEMP.        | 375-33776-413 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                | 13        | RED        | 5            | SYS #2<br>DISCH. TEMP.        | 375-33776-414 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| I/O P2         | 31        | RED (47)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-423 |
|                |           | BLK (48)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
| I/O P12        | 32        | RED (49)   | 1            | SYS #2<br>SLIDE VALVE         | 375-33776-424 |
|                |           | BLK (50)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |

**Note:**

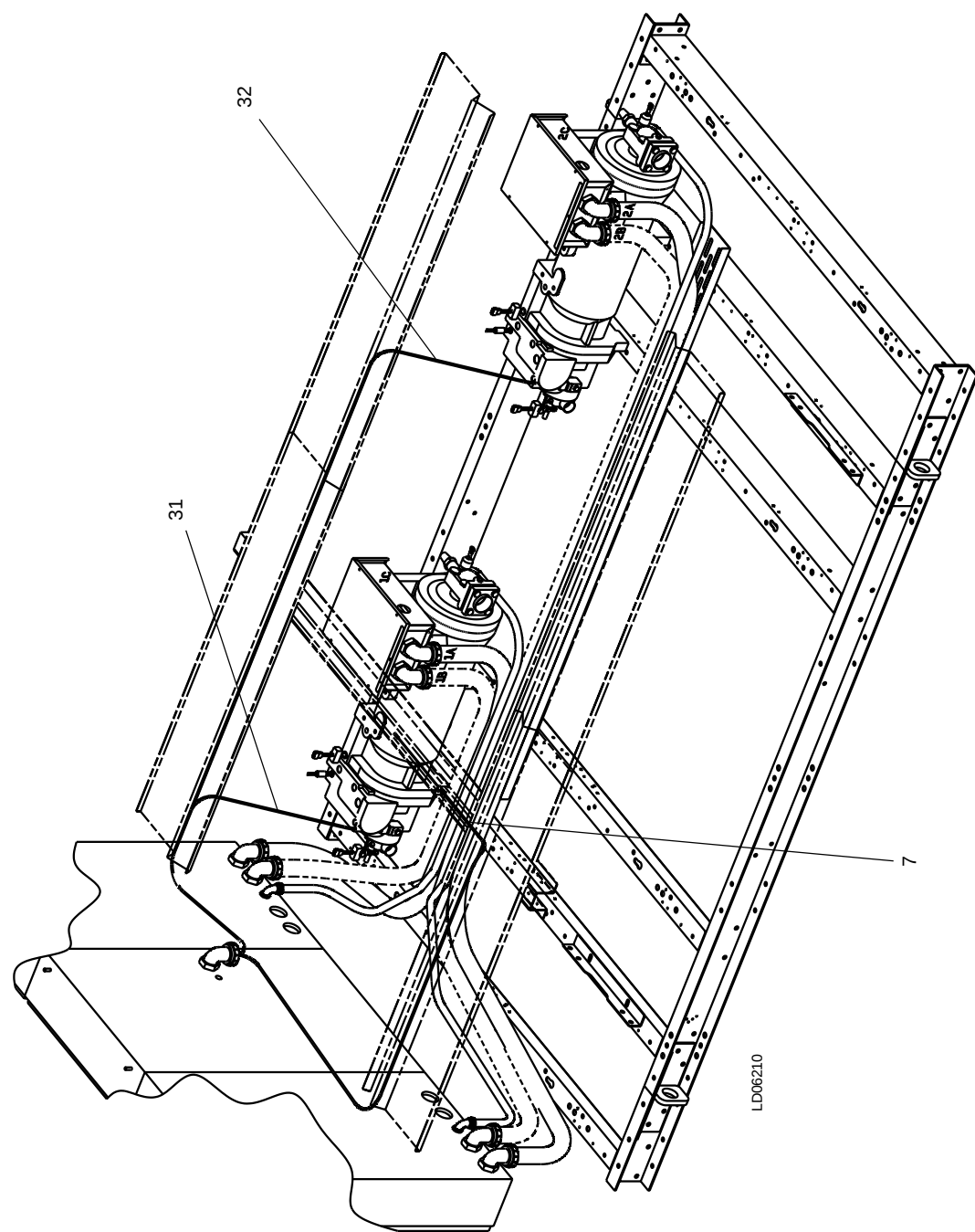
Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



LD06209

**FIG. 25 – SENSOR HARNESS PLUGS AND PINS**

**SENSOR HARNESS - REMOTE COOLER (CONT'D)**  
**CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120**

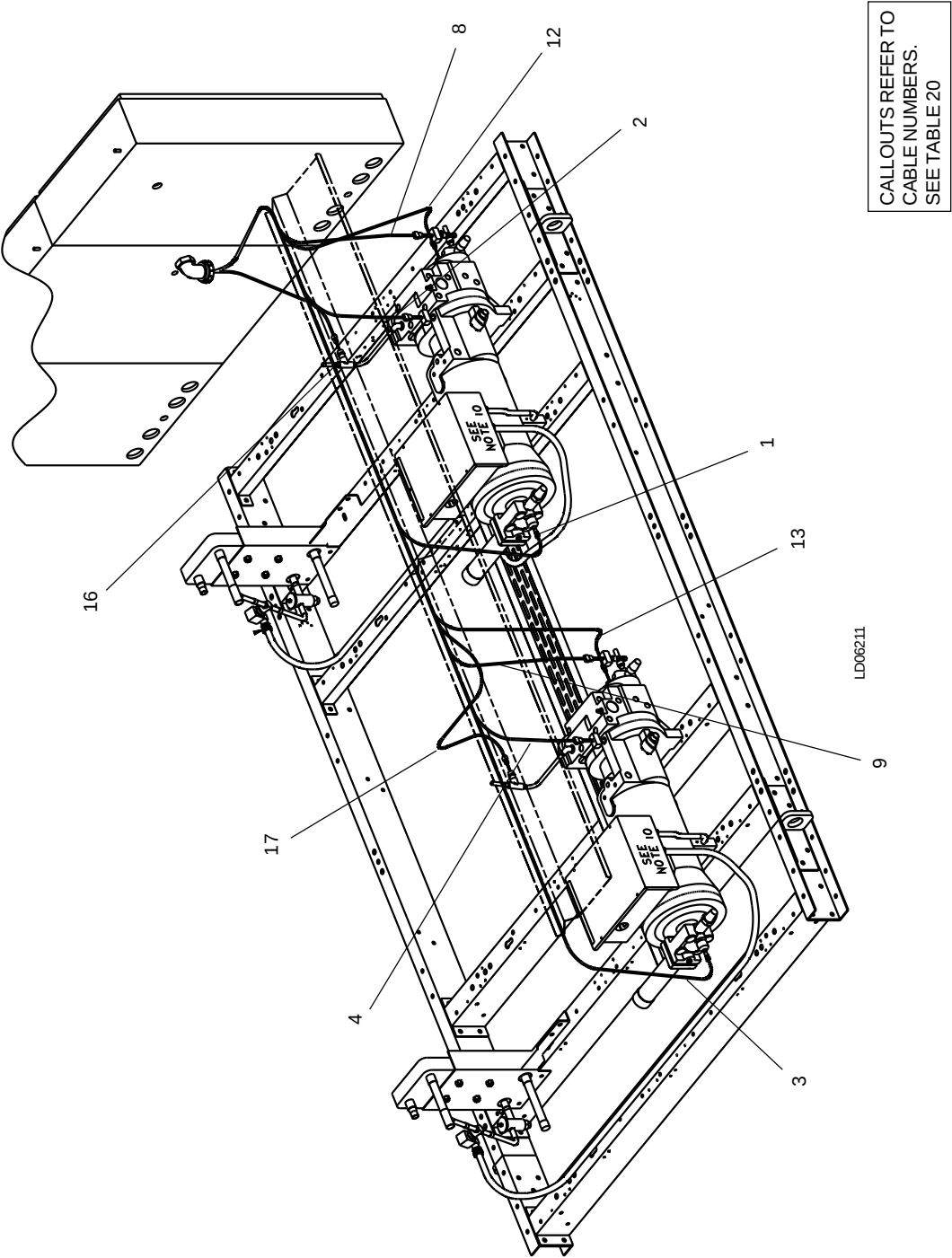


CALLOUTS REFER TO  
CABLE NUMBERS.  
SEE TABLE 20

**FIG. 26 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)**

Micro Panel

**SENSOR HARNESS - REMOTE COOLER (CONT'D)**  
**CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120**



**FIG. 27 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)**

**Micro Panel**

## TRANSDUCERS AND TEMPERATURE SENSORS

**TABLE 21 – TRANSDUCERS AND TEMPERATURE SENSORS (SEE FIG. 28, PAGE 45)**

| ITEM NUMBER    | QUANTITY | SYSTEM | DESCRIPTION                                                      | VOLTAGE CODE | PART NUMBER   |
|----------------|----------|--------|------------------------------------------------------------------|--------------|---------------|
| 1 <sup>s</sup> | 1        | Unit   | Sensor, Outside Air (OAT)(Not Shown)                             | ALL          | 025-28663-001 |
| 2 <sup>s</sup> | 2        | Unit   | Sensor, Water Temp.                                              | ALL          | 025-29964-000 |
| 3 <sup>s</sup> | 2        | 1, 2   | Sensor, Oil Temp.                                                | ALL          | 025-30440-000 |
| 4 <sup>s</sup> | 2        | 1, 2   | Sensor, Disc. Temp.                                              | ALL          | 025-32924-000 |
| 5 <sup>s</sup> | 2        | 1, 2   | Sensor, Suction Temp.                                            | ALL          | 025-28935-000 |
| 6 <sup>s</sup> | 2        | 1, 2   | Switch, High Press. Cutout                                       | ALL          | 025-30480-000 |
| 7 <sup>s</sup> | 1        | 1, 2   | Transducer 0-200 PSI                                             | ALL          | 025-29583-000 |
| 8 <sup>s</sup> | 1        | 1, 2   | Transducer 0-400 PSI                                             | ALL          | 029-29139-001 |
| 9              | 1        | 1, 2   | Valve, Transducer<br>(Use with Items 7 & 8)<br>1/4 MPT x 1/4 FPT | ALL          | 022-09503-000 |
| 10             | 4        | 1, 2   | Valve, Charging (Oil, Refrig).<br>1/2 x 3/8 Flare (Not Shown)    | ALL          | 022-09754-000 |
| 11             | 2        | 1, 2   | Adaptor, Mounting<br>(Includes Item 12) (Use with Item 6)        | ALL          | 023-18087-000 |
| 12             | 4        | 1, 2   | O-Ring (Use with Item 11)                                        | ALL          | 028-13540-000 |
| 13             | 6        | 1, 2   | Bushing (Use with Items 7 and 8)                                 | ALL          | 023-18052-000 |
| 14             | 1        | Unit   | Compound, Heat Conductive<br>(Use with Item 2)                   | ALL          | 013-00898-000 |

<sup>s</sup> Recommended Spare Part

TRANSDUCERS AND TEMPERATURE SENSORS (CONT'D)

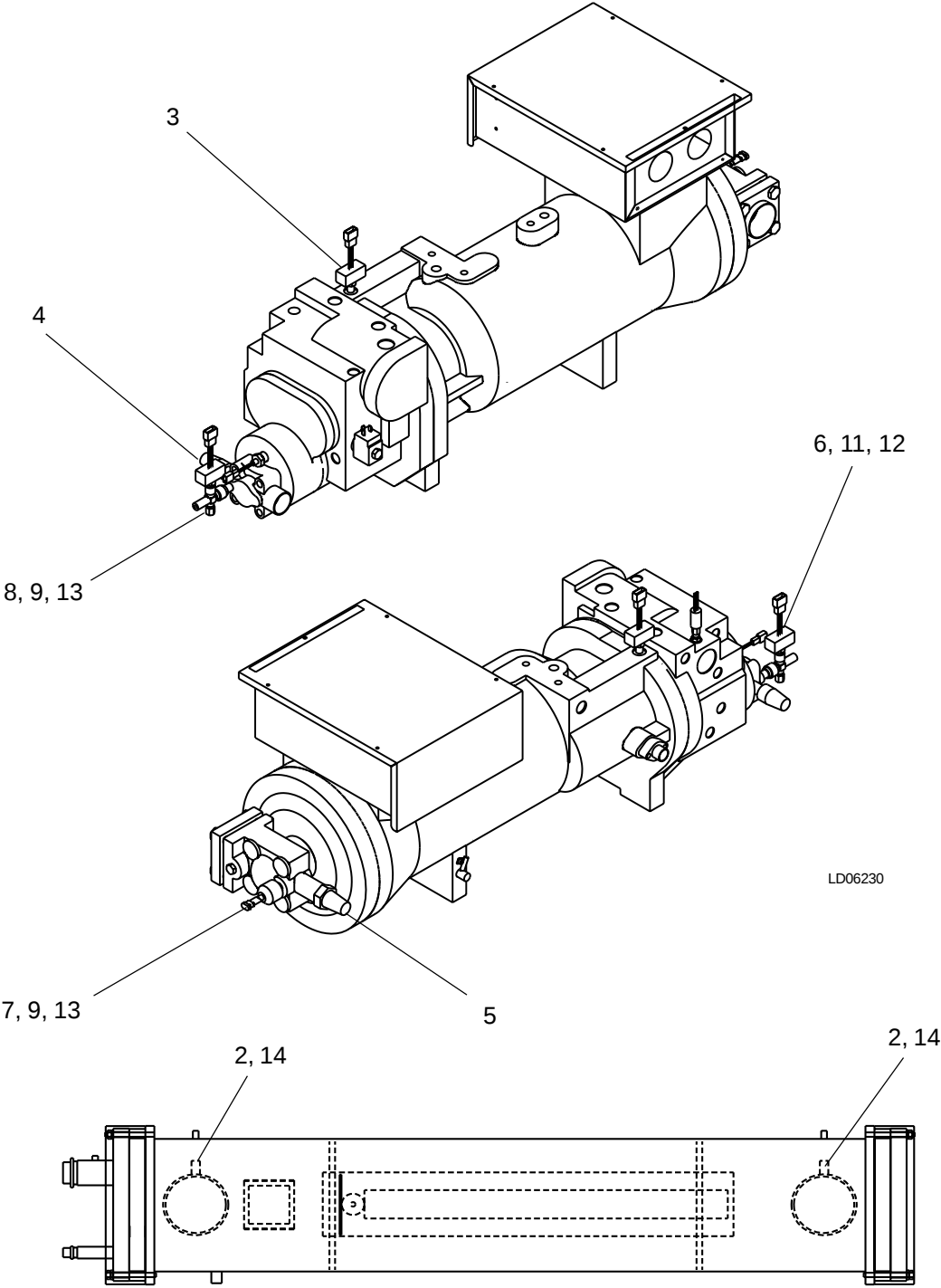


FIG. 28 – TRANSDUCERS AND TEMPERATURE SENSORS (REF. TABLE 21, PAGE 44)

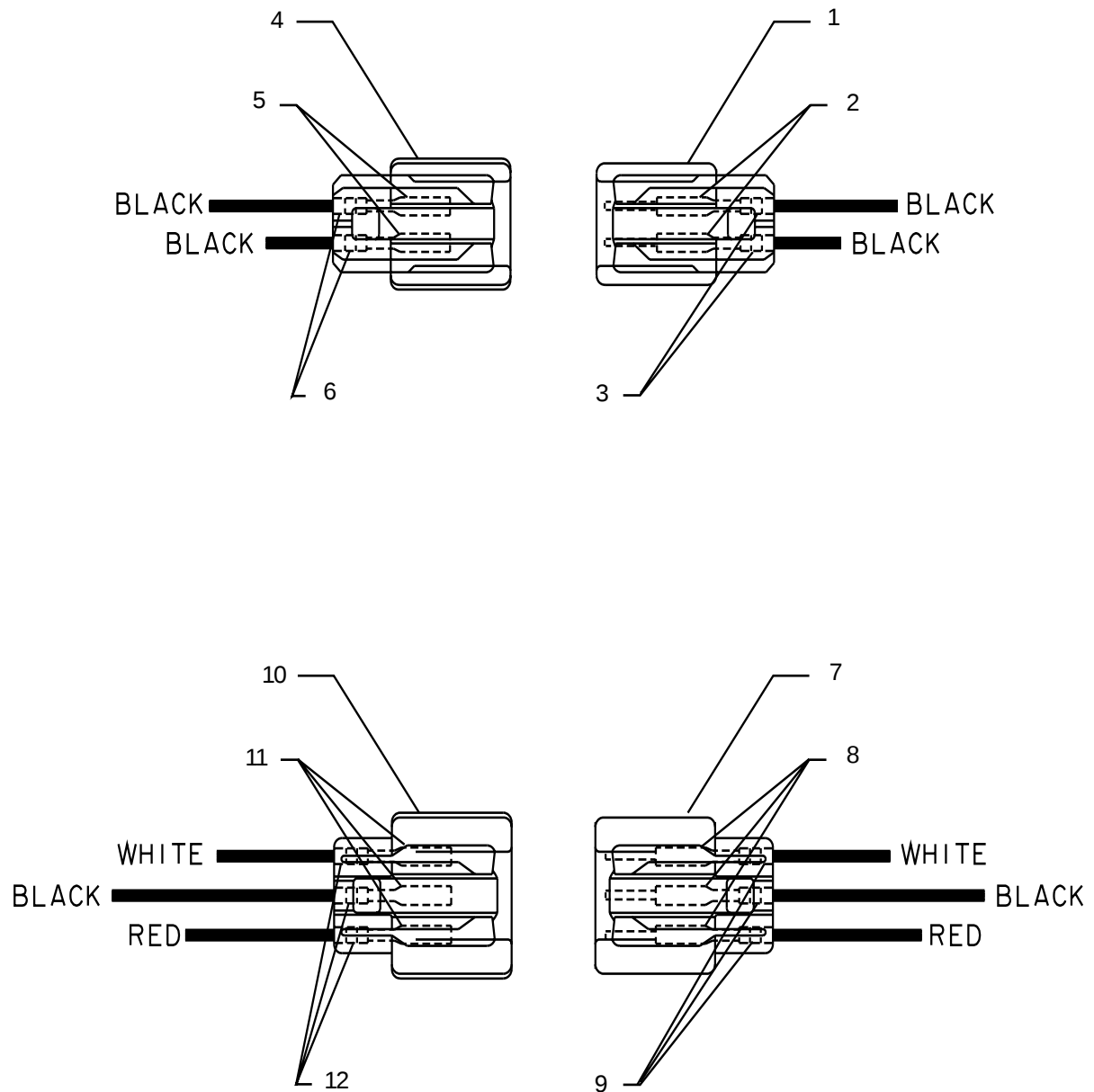
Micro Panel

## TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS – FIELD REPLACEMENT PART NUMBERS

**TABLE 22 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS  
CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 29, PAGE 47)**

| ITEM NO. | TYPE         | DESCRIPTION    | PINS      | PART NUMBER   |
|----------|--------------|----------------|-----------|---------------|
| 1        | Transducer   | Plug Connector | 3 Pin End | 025-28953-000 |
| 2        |              | Contact Pins   |           | 025-28949-000 |
| 3        |              | Rubber Collar  |           | 025-28950-000 |
| 4        | Wire Harness | Plug Connector | 3 Pin End | 025-28954-000 |
| 5        |              | Contact Pins   |           | 025-28952-000 |
| 6        |              | Rubber Collar  |           | 025-28950-000 |
| 7        | Thermistor   | Plug Connector | 2 Pin End | 025-28948-000 |
| 8        |              | Contact Pins   |           | 025-28949-000 |
| 9        |              | Rubber Collar  |           | 025-28950-000 |
| 10       | Wire Harness | Plug Connector | 2 Pin End | 025-28951-000 |
| 11       |              | Contact Pins   |           | 025-28952-000 |
| 12       |              | Rubber Collar  |           | 025-28950-000 |

## TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS – FIELD REPLACEMENT PART NUMBERS (CONT'D)



LD06225

**FIG. 29 – TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT**  
(REF. TABLE 22, PAGE 46)

## POWER AND OPTION PANELS – 2-COMPRESSOR UNITS

### POWER PANEL AND OPTION PANEL COMPONENTS

Power panels and option panels are offered in several configurations using three (3) major components:

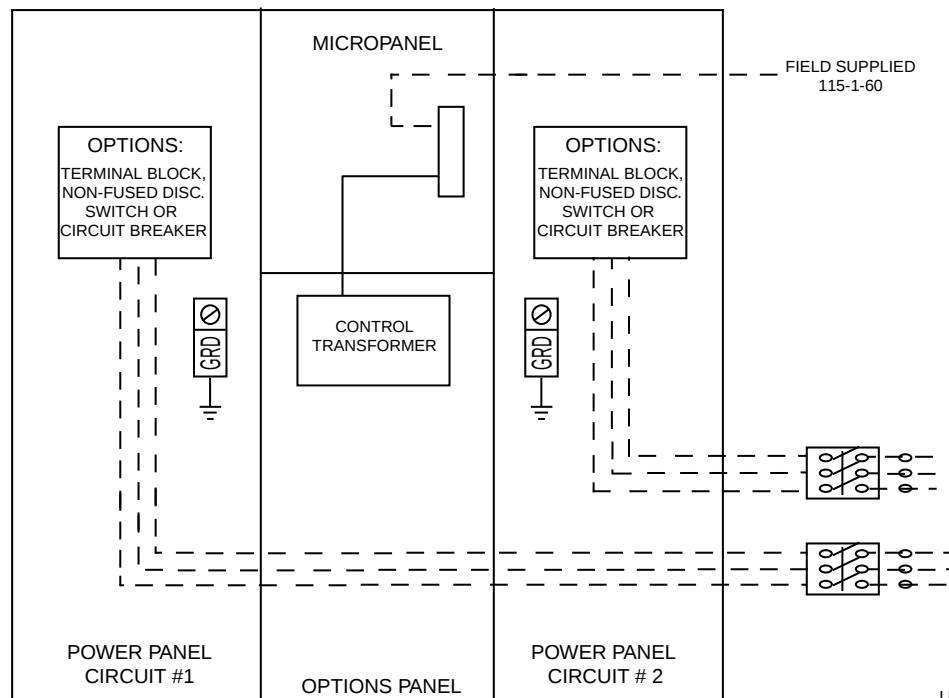
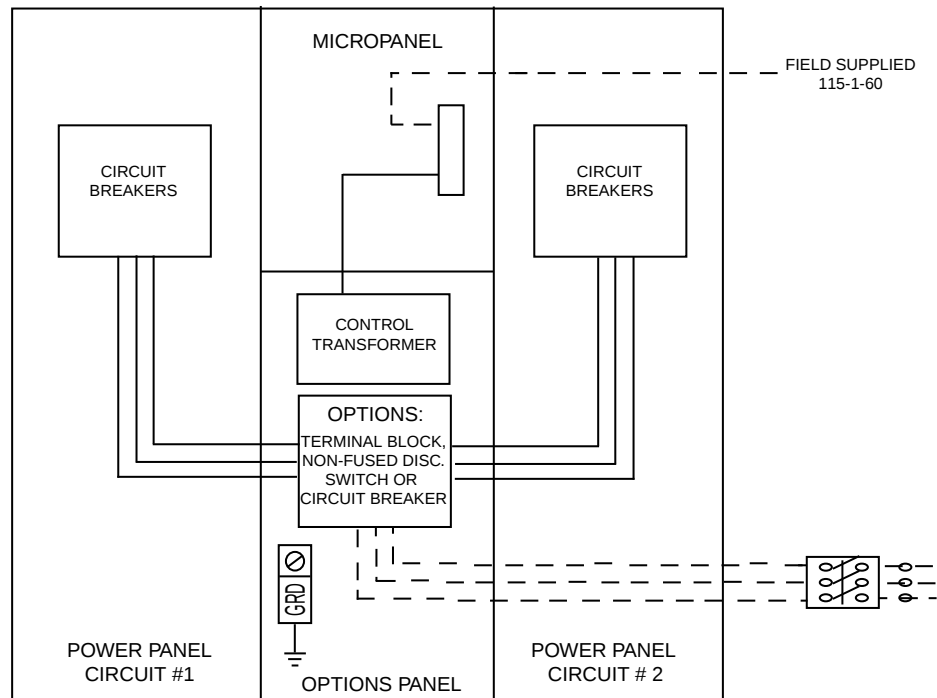
1. TERMINAL BLOCKS -
2. CIRCUIT BREAKER SWITCH -
3. NF (Non Fused) DISCONNECT SWITCH -

The most basic chiller power wiring configuration uses terminal blocks in the power panel, and an option panel with no power wire termination hardware. See figures below. The model number pin number locations 16 and 17 would be X and X to reflect this basic combination. Identify pin number locations 16 and 17 to identify the chiller power wiring connections and hardware listed below.

| PIN 16 & 17<br>LETTER CODE<br>IDENTIFIERS |   | POWER PANEL AND OPTION PANEL CONFIGURATION                                               |
|-------------------------------------------|---|------------------------------------------------------------------------------------------|
| X                                         | X | Terminal Blocks for each system in power panel; no options in option panel               |
| M                                         | D | NF disconnect switch for each system in power panel; no options in option panel          |
| M                                         | B | Circuit Breaker switch for each system in power panel; no options in option panel        |
| S                                         | X | Terminal Blocks for each system in power panel; SP terminal block in option panel        |
| S                                         | D | Terminal Blocks for each system in power panel; SP NF disc switch in option panel        |
| S                                         | B | Circuit Breaker switch for each system in power panel; SP terminal block in option panel |
| D                                         | B | Circuit Breaker switch for each system in power panel; SP NF disc switch in option panel |
| S                                         | S | NF disconnect switch for each system in power panel; SP terminal block in option panel   |
| C                                         | S | NF disconnect switch for each system in power panel; SP circuit breaker in option panel  |
| B                                         | X | Terminal Blocks for each system in power panel; SP circuit breaker in option panel       |

## POWER AND OPTION PANELS – 2-COMPRESSOR UNITS (CONT'D)

*Examples of power wiring configurations:*



LD06213

**FIG. 30 – EXAMPLES OF POWER WIRING CONFIGURATIONS (2-COMPRESSOR UNITS)**

## POWER PANEL COMPONENTS ACROSS-THE-LINE

**TABLE 23– POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)**

| ITEM NO.              | VOLTAGE                          | DESCRIPTION       | TYPE                                                              | SYSTEM 1       | SYSTEM 2      |
|-----------------------|----------------------------------|-------------------|-------------------------------------------------------------------|----------------|---------------|
| <b>1A, 1B</b>         | YCAS0090 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31643-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31638-000 |
|                       | - 40                             |                   |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 46                             |                   |                                                                   | 024-31603-000  | 024-31603-000 |
|                       | - 58                             |                   |                                                                   | 024-31640-000  | 024-31640-000 |
| <b>1A, 1B</b>         | YCAS0100 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31643-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31638-000 |
|                       | - 40                             |                   |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 46                             |                   |                                                                   | 024-31639-000  | 024-31639-000 |
|                       | - 58                             |                   |                                                                   | 024-31603-000  | 024-31603-000 |
| <b>1A, 1B</b>         | YCAS0110 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31644-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31643-000 |
|                       | - 40                             |                   |                                                                   | 024-31639-000  | 024-26577-000 |
|                       | - 46                             |                   |                                                                   | 024-31603-000  | 024-26577-000 |
|                       | - 58                             |                   |                                                                   | 024-31640-000  | 024-31639-000 |
| <b>1A, 1B</b>         | YCAS0120 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31644-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31643-000 |
|                       | - 40                             |                   |                                                                   | 024-31639-000  | 024-31642-000 |
|                       | - 46                             |                   |                                                                   | 024-31603-000  | 024-26577-000 |
|                       | - 58                             |                   |                                                                   | 024-31640-000  | 024-31639-000 |
| <b>1C<sup>s</sup></b> |                                  | Surge Suppressor  |                                                                   | 031-00808-000  | 031-00808-000 |
| <b>1D</b>             |                                  | Mech. Interlock   | VE5-2                                                             | 024-31601-000  | 024-31601-000 |
|                       |                                  |                   | VH145                                                             | 024-31600-000  | 024-31600-000 |
|                       |                                  |                   | VH210A                                                            | 024-31637-000  | 024-31637-000 |
| <b>1E</b>             |                                  | Lugs, Contactor   |                                                                   | 025-34401-000  | 025-34401-000 |
| <b>2A</b>             |                                  | 120V Wire Harness |                                                                   | 071-02600-000  | 071-02600-000 |
| <b>2B</b>             |                                  | High V Power Wire | 4AWG BLK 600v<br>6AWG BLK 600v<br>8AWG BLK 600v<br>10AWG BLK 600v | OBTAIN LOCALLY |               |
| <b>3<sup>s</sup></b>  |                                  | Motor Protector   |                                                                   | 024-30907-000  | 024-30907-000 |
| <b>4</b>              |                                  | Ground Lug        |                                                                   | 025-34455-000  | 025-34455-000 |
| <b>5</b>              |                                  | Ground Lug        |                                                                   | 025-34085-000  | 025-34085-000 |
| <b>6</b>              | See page 48<br>for configuration | Terminal Block    | UKH50                                                             | 025-34482-000  | 025-34482-000 |
|                       |                                  |                   | UKH95                                                             | 025-34454-000  | 025-34454-000 |
|                       |                                  |                   | UKH150                                                            | 025-34408-000  | 025-34408-000 |
|                       |                                  |                   | UKH240                                                            | 025-34405-000  | 025-34405-000 |

<sup>s</sup> Recommended Spare Part

## POWER PANEL COMPONENTS (CONT'D) ACROSS-THE-LINE

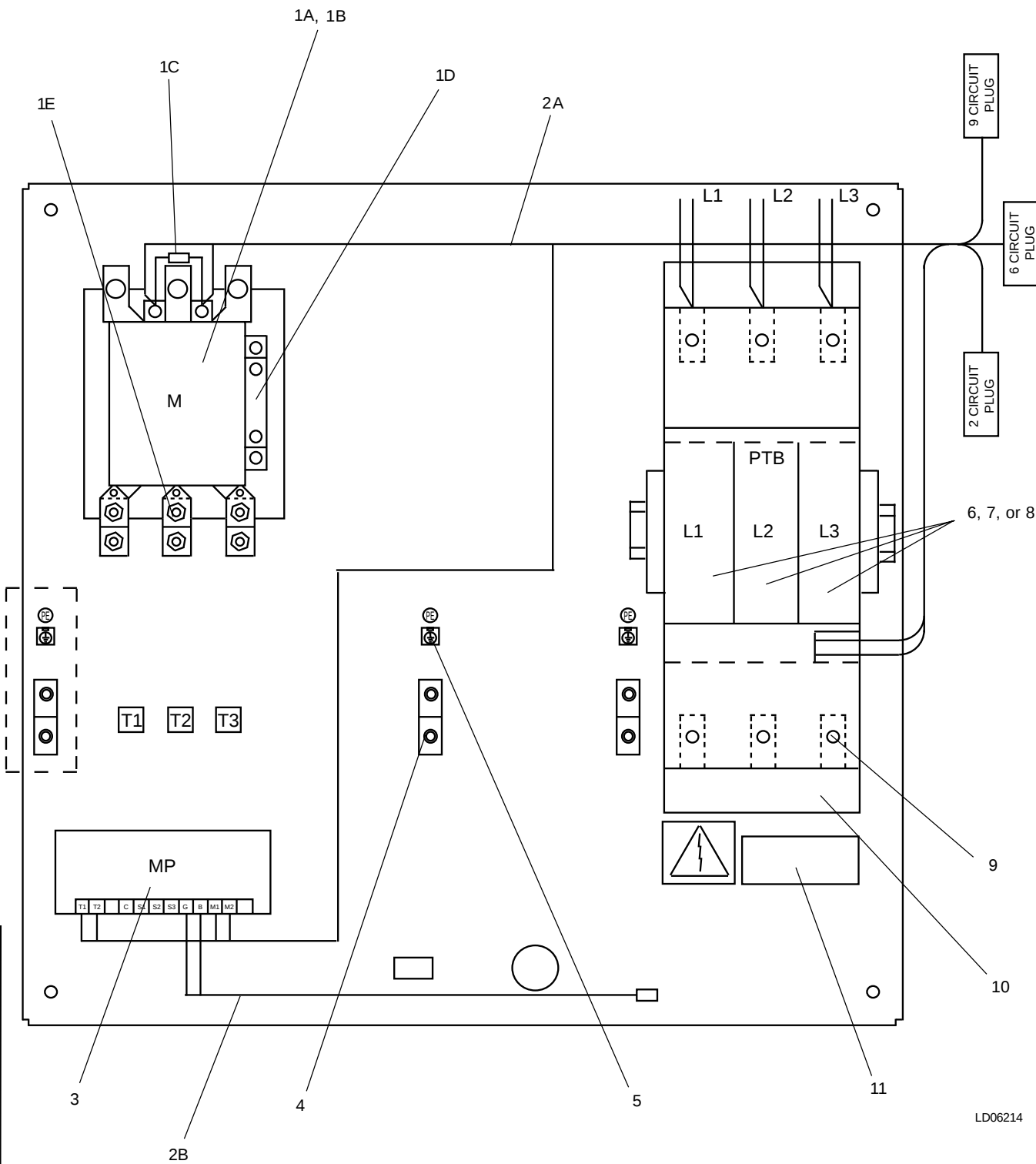
**TABLE 23 (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)**

| ITEM NO. | VOLTAGE                          | DESCRIPTION          | TYPE     | SYSTEM 1      | SYSTEM 2      |
|----------|----------------------------------|----------------------|----------|---------------|---------------|
| 7        | See page 48<br>for configuration | Circuit Breaker      | S3H125TW | 024-31844-000 | 024-31844-000 |
|          |                                  |                      | S3H150TW | 024-31649-000 | 024-31649-000 |
|          |                                  |                      | S3H225TW | 024-31819-000 | 024-31819-000 |
|          |                                  |                      | S4H250BW | 025-34419-000 | 025-34419-000 |
|          |                                  |                      | S5H400BW | 024-34424-000 | 025-34424-000 |
| 8        | See page 48<br>for configuration | NF Disc Switch       | S3H150DW | 024-25575-000 | 024-25575-000 |
|          |                                  |                      | S4H250DW | 024-25565-000 | 024-25565-000 |
|          |                                  |                      | S5H400DW | 024-25564-000 | 024-25564-000 |
| 10       |                                  | Handle Kit           |          | 025-34417-000 | 025-34417-000 |
| 11       | See page 48<br>for configuration | Aux. Circuit Breaker | K5AS     | 024-31646-000 | 024-31646-000 |
|          |                                  |                      | K7AS     | 024-31648-000 | 024-31648-000 |

**TABLE 24 – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 31, PAGE 52)**

| ITEM NO. | C/B OR DISC SW<br>FRAME SIZE | LUG KIT (SET OF 3)<br>without CONTROL POWER TAP |     | LUG KIT (SET OF 3)<br>with CONTROL POWER TAP |     | WIRE RANGE                                         |
|----------|------------------------------|-------------------------------------------------|-----|----------------------------------------------|-----|----------------------------------------------------|
|          |                              | YORK PART #                                     | QTY | YORK PART #                                  | QTY |                                                    |
| 9        | S3-125/150/225A              | 025-34462-000                                   | 3   | ---                                          | 3   | #14 - 1/0 AWG<br>2.5 - 50 mm <sup>2</sup>          |
|          |                              | 025-34480-000                                   | 3   | ---                                          | 3   | #4 AWG - 300kcm<br>25 - 150 mm <sup>2</sup>        |
| 9        | S4-250A                      | 025-34418-000                                   | 3   | 024-31650-000                                | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>       |
| 9        | S5-400A                      | 025-34418-000                                   | 3   | ---                                          | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>       |
|          |                              | 025-34421-000                                   | 3   | ---                                          | 3   | 250 - 500 kcm<br>120 - 240mm <sup>2</sup>          |
| 9        | S6-600A                      | 025-34415-000                                   | 3   | ---                                          | 3   | (3)2/0 AWG-400 kcm<br>(2) 70 - 185 mm <sup>2</sup> |

ACROSS-THE-LINE POWER PANEL



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FIG. 31 – ACROSS-THE-LINE POWER PANEL LAYOUT (REF. TABLES 23 AND 24, PAGES 50 AND 51)

## POWER PANEL COMPONENTS WYE-DELTA

**TABLE 23A – POWER PANEL COMPONENTS (REF. FIG. 32, PAGE 55)**

| ITEM NO.              | MODEL / VOLTAGE | DESCRIPTION       | TYPES                                                             | SYSTEM 1       | SYSTEM 2      |
|-----------------------|-----------------|-------------------|-------------------------------------------------------------------|----------------|---------------|
| <b>1A, 1B</b>         | YCAS0090 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | 024-31602-000  | 024-31602-000 |
|                       | - 40            |                   |                                                                   | 024-31639-000  | 024-31639-000 |
|                       | - 46            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       | - 58            |                   |                                                                   | 024-31640-000  | 024-31640-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31602-000 |
| <b>1A, 1B</b>         | YCAS0100 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 40            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       | - 46            |                   |                                                                   | 024-31640-000  | 024-31640-000 |
|                       | - 58            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31602-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
| <b>1A, 1B</b>         | YCAS0110 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | -              | 025-31642-000 |
|                       | - 40            |                   |                                                                   | 024-31602-000  | 024-26577-000 |
|                       | - 46            |                   |                                                                   | 024-31639-000  | -             |
|                       | - 58            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31603-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
| <b>1A, 1B</b>         | YCAS0120 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | -              | 024-31642-000 |
|                       | - 40            |                   |                                                                   | 024-31602-000  | 024-26577-000 |
|                       | - 46            |                   |                                                                   | 024-31639-000  | -             |
|                       | - 58            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31603-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
| <b>1C<sup>S</sup></b> |                 | Surge Suppressor  |                                                                   | 031-00808-000  | 031-00808-000 |
| <b>1D</b>             |                 | Mech. Interlock   | VE5-2                                                             | 024-31601-000  | 024-31601-000 |
|                       |                 |                   | VH145                                                             | 024-31600-000  | 024-31600-000 |
|                       |                 |                   | VH210A                                                            | 024-31637-000  | 024-31637-000 |
| <b>1E</b>             |                 | Lugs, Contactor   |                                                                   | 025-34401-000  | 025-34401-000 |
| <b>2A</b>             |                 | 120V Wire Harness |                                                                   | 071-02600-000  | 071-02600-000 |
| <b>2B</b>             |                 | High V Power Wire | 4AWG BLK 600v<br>6AWG BLK 600v<br>8AWG BLK 600v<br>10AWG BLK 600v | OBTAIN LOCALLY |               |
| <b>3<sup>S</sup></b>  |                 | Motor Protector   |                                                                   | 024-30907-000  | 024-30907-000 |

## POWER PANEL COMPONENTS (CONT'D)

### WYE-DELTA

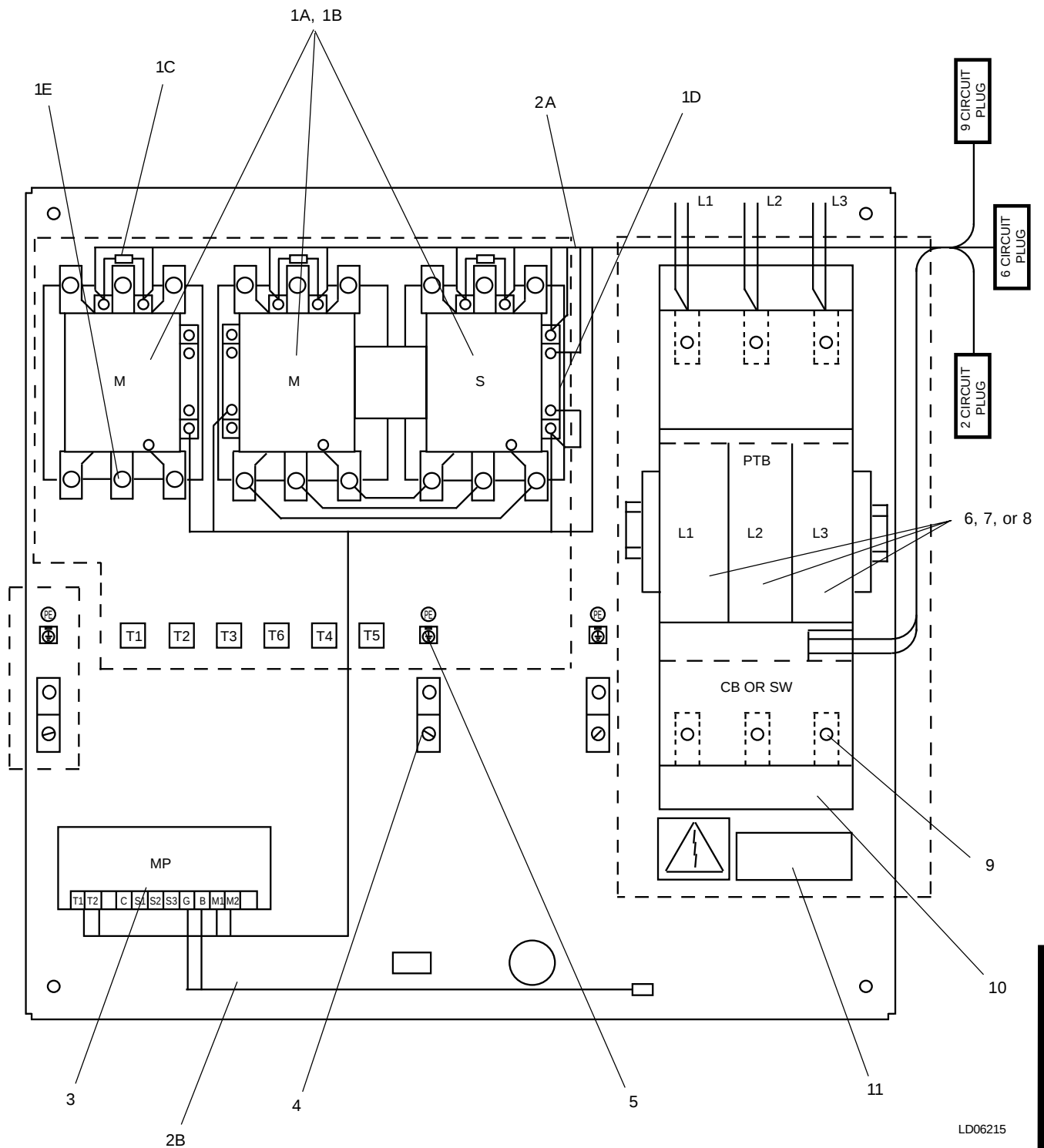
**TABLE 23A (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 32, PAGE 55)**

| ITEM NO. | VOLTAGE                          | DESCRIPTION          | TYPE                                                     | SYSTEM 1                                                                          | SYSTEM 2                                                                          |
|----------|----------------------------------|----------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 4        |                                  | Ground Lug           |                                                          | 025-34455-000                                                                     | 025-34455-000                                                                     |
| 5        |                                  | Ground Lug           |                                                          | 025-34085-000                                                                     | 025-34085-000                                                                     |
| 6        |                                  | Terminal Block       | UKH50<br>UKH95<br>UKH150<br>UKH240                       | 025-34482-000<br>025-34454-000<br>025-34408-000<br>025-34405-000                  | 025-34482-000<br>025-34454-000<br>025-34408-000<br>025-34405-000                  |
| 7        | See page 48<br>for configuration | Circuit Breaker      | S3H125TW<br>S3H150TW<br>S3H225TW<br>S4H250BW<br>S5H400BW | 024-31844-000<br>024-31649-000<br>024-31819-000<br>025-34419-000<br>024-34424-000 | 024-31844-000<br>024-31649-000<br>024-31819-000<br>025-34419-000<br>025-34424-000 |
| 8        | See page 48<br>for configuration | NF Disc Switch       | S3H150DW<br>S4H250DW<br>S5H400DW                         | 024-25575-000<br>024-25565-000<br>024-25564-000                                   | 024-25575-000<br>024-25565-000<br>024-25564-000                                   |
| 10       |                                  | Handle Kit           |                                                          | 025-34417-000                                                                     | 025-34417-000                                                                     |
| 11       | See page 48<br>for configuration | Aux. Circuit Breaker | K5AS<br>K7AS                                             | 024-31646-000<br>024-31648-000                                                    | 024-31646-000<br>024-31648-000                                                    |

**TABLE 24A – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 32, PAGES 55)**

| ITEM NO. | C/B or DISC SW<br>FRAME SIZE | LUG KIT (SET OF 3)<br>without CONTROL POWER TAP |     | LUG KIT (SET OF 3)<br>with CONTROL POWER TAP |     | WIRE RANGE                                           |
|----------|------------------------------|-------------------------------------------------|-----|----------------------------------------------|-----|------------------------------------------------------|
|          |                              | YORK PART #                                     | QTY | YORK PART #                                  | QTY |                                                      |
| 9        | S3-125/150/225A              | 025-34462-000                                   | 3   | ---                                          | 3   | #14 - 1/0 AWG<br>2.5 - 50 mm <sup>2</sup>            |
|          |                              | 025-34480-000                                   | 3   | ---                                          | 3   | #4 AWG - 300kcm<br>25 - 150 mm <sup>2</sup>          |
| 9        | S4-250A                      | 025-34418-000                                   | 3   | 024-31650-000                                | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>         |
| 9        | S5-400A                      | 025-34418-000                                   | 3   | ---                                          | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>         |
|          |                              | 025-34421-000                                   | 3   | ---                                          | 3   | 250 - 500 kcm<br>120 - 240mm <sup>2</sup>            |
| 9        | S6-600A                      | 025-34415-000                                   | 3   | ---                                          | 3   | (3)2/0 AWG - 400 kcm<br>(2) 70 - 185 mm <sup>2</sup> |

## WYE-DELTA POWER PANEL



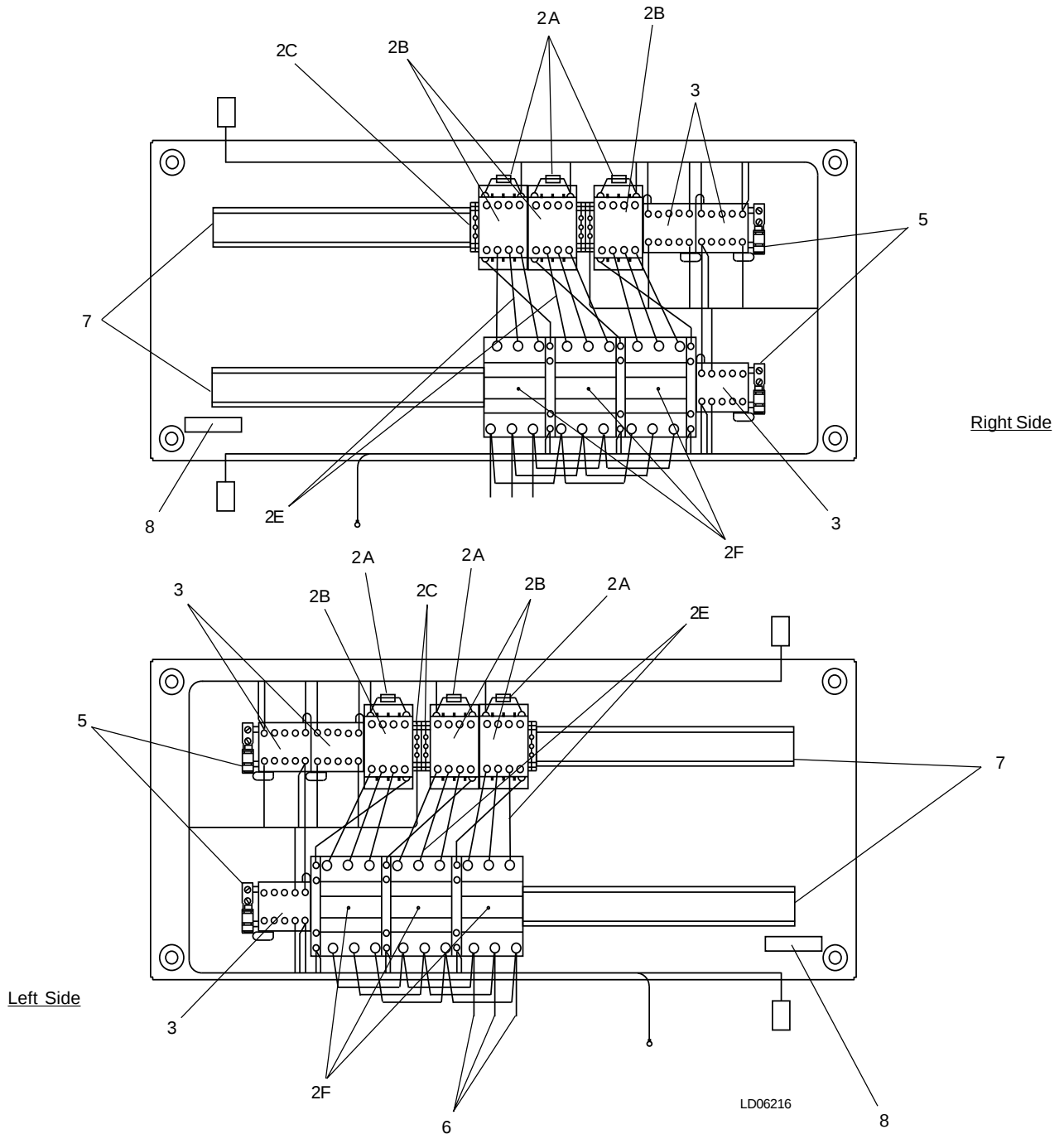
**FIG. 32 – WYE-DELTA POWER PANEL TYPICAL LAYOUT (REF. TABLES 23A AND 24A, PAGES 53 AND 54)**

### 3 FAN CONTACTOR PANEL COMPONENTS

**TABLE 25 – 3 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 33, PAGE 57)**

| ITEM NO. | VOLTAGE       | DESCRIPTION       | TYPE     | ADJUSTMENT     | PART NUMBER   |
|----------|---------------|-------------------|----------|----------------|---------------|
| 2A       |               | Surge Suppressor  |          |                | 031-00808-000 |
| 2B       | YCAS0090 - 17 | Contactor         | A12      |                | 025-34445-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A9       |                | 025-34448-000 |
| 2B       | YCAS0100 - 17 | Contactor         | A12      |                | 025-34445-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A9       |                | 025-34448-000 |
| 2B       | YCAS0110 - 17 | Contactor         | A16      |                | 024-31830-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A12      |                | 025-34445-000 |
| 2B       | YCAS0120 - 17 | Contactor         | A16      |                | 024-31830-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A12      |                | 025-34445-000 |
| 2C       |               | PH Terminal       | USLKG2.5 |                | 025-34447-000 |
| 2E       |               | 14AWG BLK 600V 1  |          |                | 025-08897-000 |
| 2F       |               | Overload          | 6.3A     | 4.0-6.3 Amps   | 025-34450-000 |
|          |               |                   | 9.0A     | 6.3-9.0 Amps   | 025-34449-000 |
|          |               |                   | 12.5A    | 9.0-12.5 Amps  | 025-34446-000 |
|          |               |                   | 16.0A    | 12.5-16.0 Amps | N/A           |
| 3        |               | Contactor 600V    |          |                | 025-31635-000 |
| 5        |               | End Clamp         |          |                | 025-34439-000 |
| 6        |               | 10AWG BLK 600V 1  |          |                | 025-11585-000 |
| 7        |               | 12-10AWG #8 Ring  |          |                | 025-34091-000 |
|          |               | Din Rail, Slotted |          |                | 025-29167-000 |
| 8        |               | Label, Caution    |          |                | 035-05548-000 |

### 3 FAN CONTACTOR PANEL COMPONENTS (CONT'D)



**FIG. 33 – 3 FAN CONTACTOR PANEL COMPONENTS– YCAS F (REF. TABLE 25, PAGE 56)**

## OPTIONS PANEL COMPONENTS

**TABLE 26 – OPTIONS PANEL COMPONENTS (SEE FIG. 34 AND 35, PAGES 59 AND 60)**

| ITEM NO.                                | PART NO.      | DESCRIPTION                                 | QTY. |
|-----------------------------------------|---------------|---------------------------------------------|------|
| 4A                                      | 024-25575-000 | Disconnect Switch, 150 Amp                  | 1    |
| 4A                                      | 024-25565-000 | Disconnect Switch, 250 Amp                  | 1    |
| 4A                                      | 024-31844-000 | Circuit Breaker, 125 Amp (S3H125TW)         | 1    |
| 4A                                      | 024-31649-000 | Circuit Breaker, 150 Amp (S3H150TW)         | 1    |
| 4A                                      | 024-31819-000 | Circuit Breaker, 225 Amp (S3H225TW)         | 1    |
| 4A                                      | 024-34424-000 | Circuit Breaker, 400 Amp (S4H400BW)         | 1    |
| 4A                                      | 024-34425-000 | Circuit Breaker, 600 Amp (S6H600BW)         | 1    |
| 4A                                      | 025-34482-000 | Terminal Block UKH50                        | 3    |
| 4A                                      | 025-34454-000 | Terminal Block UKH95                        | 3    |
| 4A                                      | 025-34408-000 | Terminal Block UKH150                       | 3    |
| 4A                                      | 025-34405-000 | Terminal Block UKH240                       | 3    |
| 4B                                      | 025-34413-000 | Handle Kit, size S6 CB or Disc. Sw.         | 1    |
| 4B                                      | 025-34417-000 | Handle Kit, size S3, S4, S5 CB or Disc. Sw. | 1    |
| <b>Lug Kits LESS Control Power Tap*</b> |               |                                             |      |
| 4C                                      | 025-34415-000 | L.K. (3) 2/0-400                            | 1    |
| 4C                                      | 025-34418-000 | L.K. (1) 6-350MCM                           | 1    |
| 4C                                      | 025-34421-000 | L.K. (6) 250-500                            | 1    |
| 4C                                      | 025-34480-000 | L.K. (1) 4-300MCM                           | 1    |
| <b>Lug Kits WITH Control Power Tap*</b> |               |                                             |      |
| 4D                                      | 024-31650-000 | L.K. (1) 6-350MCM (wire range)              | 1    |
| <b>Terminal Block Jumpers</b>           |               |                                             |      |
| 4E                                      | 025-34422-000 | Insertion Bridge EB2-31/UKH                 | 2    |
| 4E                                      | 025-34423-000 | Insertion Bridge EB2-36/UKH                 | 3    |
| 4E                                      | 025-34426-000 | Insertion Bridge EB3-36/UKH                 | 3    |
| 4E                                      | 025-34497-000 | Insertion Bridge                            | 3    |
| 1C                                      | 024-31833-000 | Switch, Non-Fused Disconnect                | 1    |
| 1D                                      | 024-31633-000 | Shaft, Disconnect Switch                    | 1    |
| 1E                                      | 024-31832-000 | Handle, Disconnect Switch                   | 1    |
| 1F                                      | 024-34427-000 | Control #UF811                              | 1    |
| 2B                                      | 025-34434-000 | Transformer, 2 kVA, 200-120V                | 1    |
| 2B                                      | 025-34436-000 | Transformer, 2 kVA, 380-120V                | 1    |
| 2B                                      | 025-34437-000 | Transformer, 2 kVA, 415-120V                | 1    |
| 2B                                      | 025-34429-000 | Transformer, 2 kVA, 460-120V                | 1    |
| 2B                                      | 025-34432-000 | Transformer, 2 kVA, 580-120V                | 1    |
| 2B                                      | 025-34493-000 | Transformer, 2 kVA 1PH 50/60 Hz             | 1    |
| 2A                                      | 025-34431-000 | Fuse, 8 Amp 600V CL-CC                      | 2    |
| 2A                                      | 025-34430-000 | Fuse, 10 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-34435-000 | Fuse, 12 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-34428-000 | Fuse, 20 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-34433-000 | Fuse, 25 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-35668-000 | Fuse, 12 Amp 500V type aM                   | 2    |

\* NOTE: Number in parenthesis indicates number of contactors per lug.

OPTIONS PANEL COMPONENTS (CONT'D)

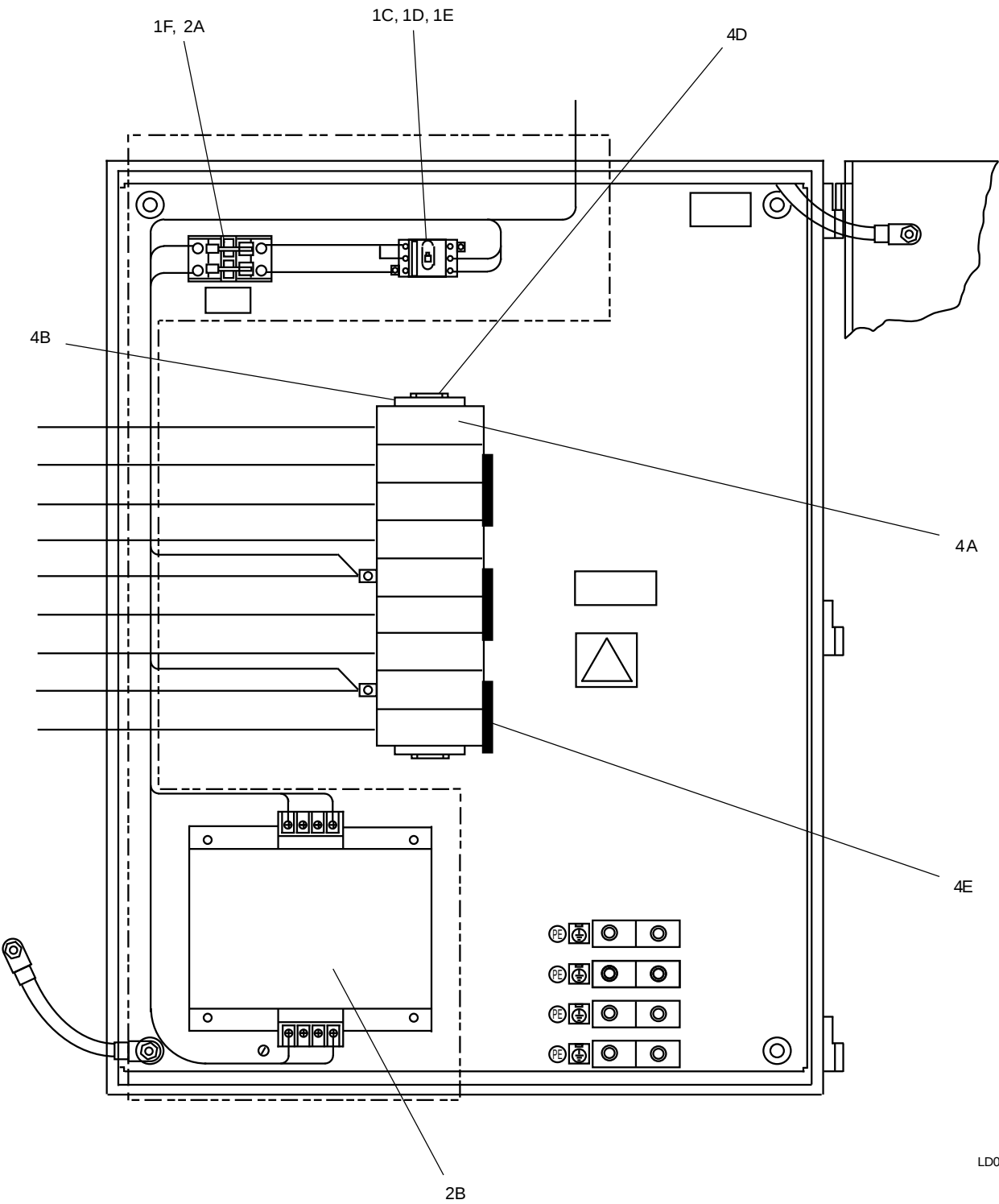
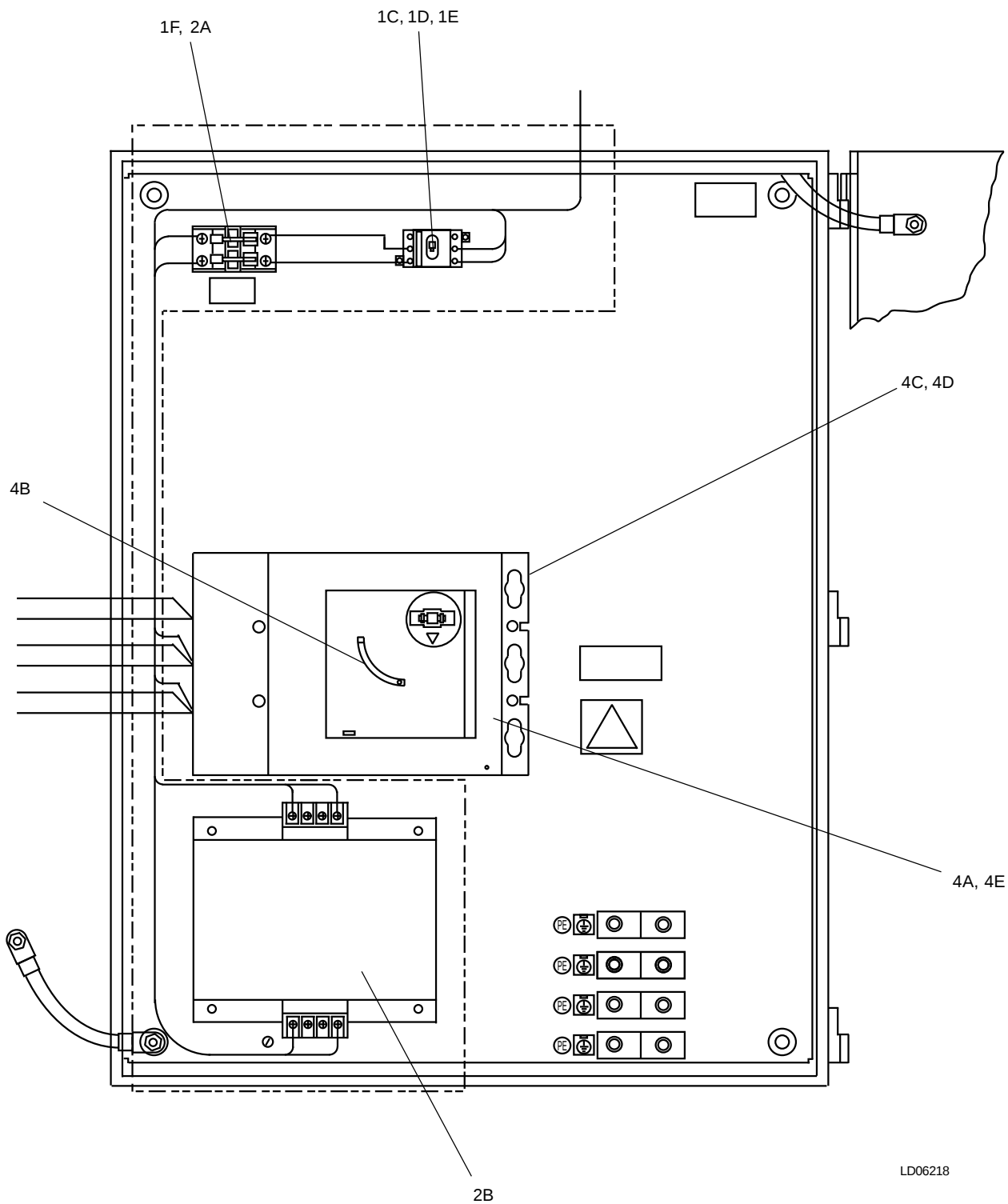


FIG. 34 – OPTIONS PANEL WITH POWER TERMINAL BLOCK OPTION (REF. TABLE 26, PAGE 58)

## OPTIONS PANEL COMPONENTS (CONT'D)



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**FIG. 35 –** OPTIONS PANEL WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH OPTION (REF. TABLE 26, PAGE 58)

## YCAS CHILLER – OPTIONS KITS

**TABLE 27 – FIELD INSTALLABLE OPTIONS KIT TABLE**

| MODEL<br>NUMBER<br>YCAS - F | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/AL | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/CU | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/CU | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/CU |
|-----------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|
| MODEL NO.                   | 029-22941                                               | 029-22941                                                 | 029-22941                                            | 029-22941                                               | 029-22941                                                 | 029-22941                                            |
| 0090                        | -101                                                    | -201                                                      | -001                                                 | -151                                                    | -251                                                      | -007                                                 |
| 0100                        | -102                                                    | -201                                                      | -002                                                 | -151                                                    | -251                                                      | -007                                                 |
| 0110                        | -103                                                    | -202                                                      | -003                                                 | -152                                                    | -252                                                      | -008                                                 |
| 0120                        | -103                                                    | -202                                                      | -003                                                 | -152                                                    | -252                                                      | -008                                                 |

\* Note Tubing and Fin Coil Material

**TABLE 27 (CONT'D) – FIELD INSTALLABLE OPTIONS KIT TABLE**

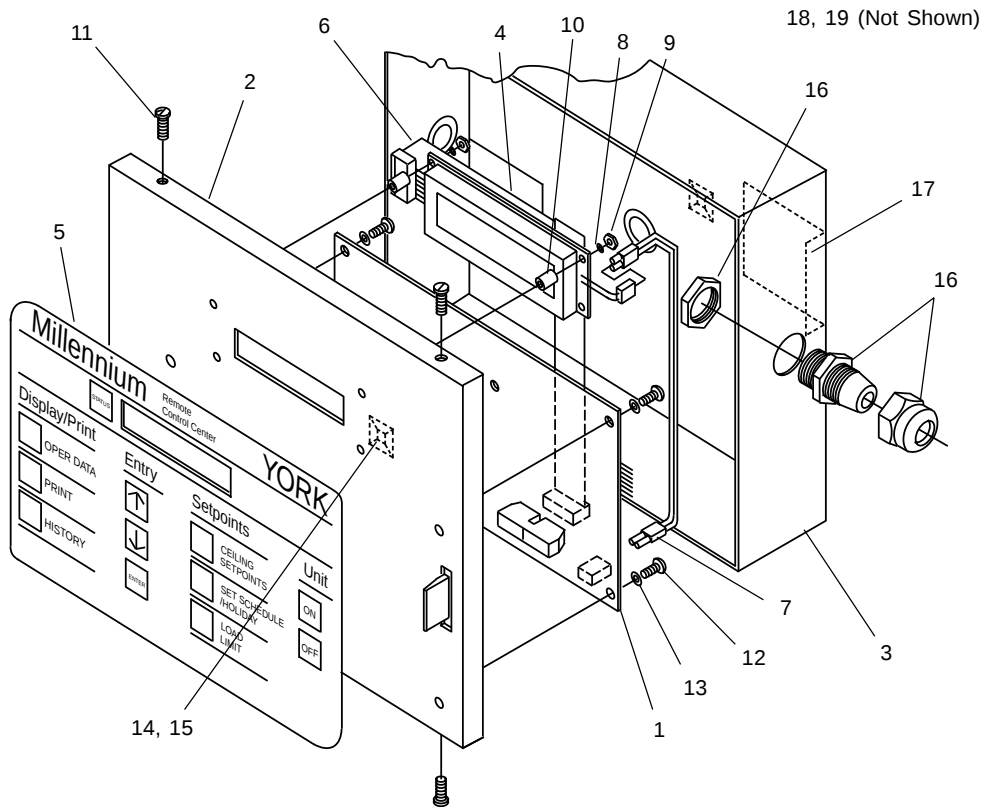
| MODEL<br>NUMBER<br>YCAS - F | WIRE<br>ENCLOSURE<br>FULL UNIT | LOUVERED<br>ENCLOSURE<br>FULL UNIT | WIRE/<br>LOUVERED<br>ENCLOSURE<br>FULL UNIT | LOUVERED<br>ENCLOSURE<br>CONDENSER<br>ONLY | BAS / EMS<br>INTERFACE<br>KIT | REMOTE<br>CONTROL<br>PANEL<br>60 HZ |
|-----------------------------|--------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------|-------------------------------------|
| MODEL NO.                   | 375-29513                      | 375-29514                          | 375-29515                                   | 375-29516                                  | 371-02590                     | 371-02485                           |
| 0090                        | -105                           | -105                               | -105                                        | -105                                       | -102                          | -102                                |
| 0100                        | -105                           | -105                               | -105                                        | -105                                       | -102                          | -102                                |
| 0110                        | -120                           | -120                               | -120                                        | -120                                       | -102                          | -102                                |
| 0120                        | -120                           | -120                               | -120                                        | -120                                       | -102                          | -102                                |

**TABLE 28 – REMOTE EVAPORATOR - FIELD INSTALLABLE OPTIONS KIT TABLE**

| MODEL<br>NUMBER<br>YCAS - F | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/AL | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/CU | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/CU | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/CU |
|-----------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|
| MODEL NO.                   | 029-22967                                               | 029-                                                      | 029-22967                                            | 029-                                                    | 029-22967                                                 | 029-22967                                            |
| 0090                        | -101                                                    | 22067-201                                                 | -005                                                 | 22967-151                                               | -251                                                      | -001                                                 |
| 0100                        | -101                                                    | 22067-201                                                 | -005                                                 | 22967-151                                               | -251                                                      | -001                                                 |
| 0110                        | -102                                                    | 22967-202                                                 | -006                                                 | 22941-152                                               | -252                                                      | -002                                                 |
| 0120                        | -102                                                    | 22967-202                                                 | -006                                                 | 22941-152                                               | -252                                                      | -002                                                 |

\* Note Tubing and Fin Coil Material

# REMOTE CONTROL CENTER



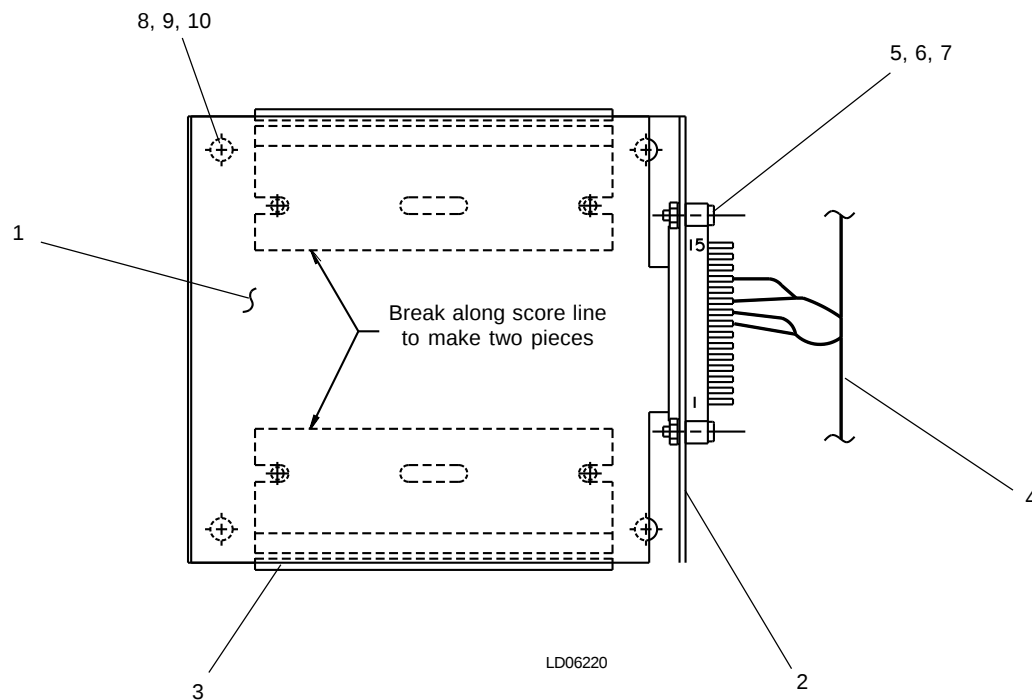
LD06219

FIG. 36 – REMOTE CONTROL CENTER PARTS (REF. TABLE 29)

TABLE 29 – REMOTE CONTROL CENTER PARTS (SEE FIG. 36)

| 371-02485-102 (60 HZ) |          |                                        |               |
|-----------------------|----------|----------------------------------------|---------------|
| REF. NUMBER           | QUANTITY | DESCRIPTION                            | PART NUMBER   |
| 1                     | 1        | CONTROL, MICROBOARD                    | 031-01196-000 |
| 2                     | 1        | COVER, REMOTE CONTROL                  | 371-02485-311 |
| 3                     | 1        | BASE, REMOTE CONTROL                   | 071-02485-320 |
| 4                     | 1        | DISPLAY, LCD                           | 031-01110-000 |
| 5                     | 1        | SWITCH, KEYPAD                         | 024-30930-000 |
| 6                     | 1        | RIBBON CABLE                           | 071-01289-211 |
| 7                     | 1        | WIRE CABLE                             | 071-01289-212 |
| 8                     | 4        | LKWASH HEL. SPG. #4 REG.               | 021-17576-000 |
| 9                     | 4        | NUT, HEX MACH SCREW - #4 – 40 UNC-2B.  | 021-10056-000 |
| 10                    | 4        | SPACER, NYLON 1/4 OD X 7/16 LG.        | 021-17575-000 |
| 11                    | 4        | SCREW TAP THD. FORM TYPE AB            | 021-14150-000 |
| 12                    | 4        | SCREW, MACH PAN HD.                    | 021-01719-000 |
| 13                    | 4        | LKWASH, TH. INT. #8                    | 021-01133-000 |
| 14                    | 3        | CABLE TIE MOUNT                        | 025-25155-000 |
| 15                    | 5        | CABLE TIE                              | 025-18167-000 |
| 16                    | 1        | CABLE FITTING                          | 025-31732-000 |
| 17                    | 2        | INSULATOR, RECIPAK, ROOFTOP            | 071-01730-000 |
| 18                    | 2        | MODULE, LAN TRANSIENT PROTECTION (LTP) | 031-01586-000 |
| 19                    | 1        | INSTALLATION INSTRUCTIONS              | 071-01289-002 |

## CURRENT/TEMPERATURE RESET PARTS BREAKDOWN



**FIG. 37 – REMOTE CURRENT/TEMPERATURE RESET KIT (REF. TABLE 30)**

**TABLE 30 – REMOTE CURRENT/TEMPERATURE RESET KIT (SEE FIG. 37)**

| REF. NUMBER | QUANTITY | DESCRIPTION              | PART NUMBER   |
|-------------|----------|--------------------------|---------------|
| 1           | 1        | CONTROL, REMOTE          | 031-00814-000 |
| 2           | 1        | BRACKET, REMOTE RESET    | 371-01232-361 |
| 3           | 1        | TRACK, SNAP              | 071-01232-363 |
| 4           | 1        | WIRING, REMOTE RESET     | 571-02492-221 |
| 5           | 2        | SCREW MACH. PAN HD #4    | 021-17594-000 |
| 6           | 4        | NUT, HEX - #4 - 40.      | 021-10056-000 |
| 7           | 2        | LKWASH HEL. SPG. #4 REG. | 021-17576-000 |
| 8           | 4        | NUT, HEX - #6 - 32.      | 021-08281-000 |
| 9           | 4        | LKWASH TH. INT. #6.      | 021-01132-000 |
| 10          | 4        | WASHER, FLAT #6.         | 021-11641-000 |

**TABLE 31 – REMOTE CURRENT/TEMPERATURE RESET KIT - LOOSE SHIP PARTS**

| QUANTITY | DESCRIPTION                        | PART NUMBER    |
|----------|------------------------------------|----------------|
| 2        | CONT SOC AWG WIRE SIZE 20          | 025-19674-000  |
| 2        | TERMINAL PUSH ON STRAIGHT          | 025-06642-000  |
| 4        | TUBING HEAT SHRINKABLE 1/8 ID      | 025-29632-000  |
| 1        | HGS CONNECTOR ELECTRICAL PLUG      | 025-21137-000* |
| 1        | CONNECTOR EDGE, 15 POSITION, 0.125 | 025-29631-000  |

\* Was P/N 025-21137-000 prior to Spring 1999.

# **ENCLOSURE KIT OPTIONS – FULL UNIT** **(Includes Top and Bottom Sections)**

**TABLE 32 – ENCLOSURE KIT OPTIONS**

| MODEL<br>NUMBER | WIRE<br>ENCLOSURE<br>FULL UNIT * | LOUVERED<br>ENCLOSURE<br>FULL UNIT * | WIRE /<br>LOUVERED<br>ENCLOSURE<br>FULL UNIT * | LOUVERED<br>ENCLOSURE<br>CONDENSER<br>ONLY |
|-----------------|----------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------------|
| <b>YCAS - F</b> | <b>375-29513-</b>                | <b>375-29514-</b>                    | <b>375-29515-</b>                              | <b>375-29516-</b>                          |
| <b>0090</b>     | 105                              | 105                                  | 105                                            | 105                                        |
| <b>0100</b>     | 105                              | 105                                  | 105                                            | 105                                        |
| <b>0110</b>     | 120                              | 120                                  | 120                                            | 012                                        |
| <b>0120</b>     | 120                              | 120                                  | 120                                            | 012                                        |

\* Full units include top and bottom sections listed in Tables 34 - 37. Top or bottom sections may be ordered separately if desired.

## ENCLOSURE KIT OPTIONS - TOP AND BOTTOM (Full Unit, Top and Bottom Kit Numbers)

**TABLE 33 – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS AVAILABLE SEPARATELY**

| FULL UNIT KIT OPTION NUMBER INCLUDES THE FOLLOWING TOP AND BOTTOM SECTION KITS |                   |                         |                         |
|--------------------------------------------------------------------------------|-------------------|-------------------------|-------------------------|
| TYPE                                                                           | FULL UNIT KIT NO. | TOP KIT NO.             | BOTTOM KIT NO.          |
| WIRE                                                                           | 375-29513-105     | 375-29569-100 (FIG. 38) | 375-29569-101 (FIG. 39) |
| WIRE                                                                           | 375-29513-120     | 375-29569-120 (FIG. 38) | 375-29081-121 (FIG. 39) |
| LOUVER                                                                         | 375-29514-105     | 375-29571-100 (FIG. 40) | 375-29571-101 (FIG. 41) |
| LOUVER                                                                         | 375-29514-120     | 375-29571-120 (FIG. 40) | 375-29080-121 (FIG. 41) |
| W/L                                                                            | 375-29515-105     | 375-29571-100           | 375-29569-101           |
| W/L                                                                            | 375-29515-120     | 375-29571-120           | 375-29081-121           |
| LOUVER                                                                         | 375-29516-105     | 375-29571-100           | N/A                     |
| LOUVER                                                                         | 375-29516-012     | 375-29571-120           | N/A                     |

- Top and Bottom may be ordered separately.
- Individual parts are shown on the following pages.

# WIRE ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN

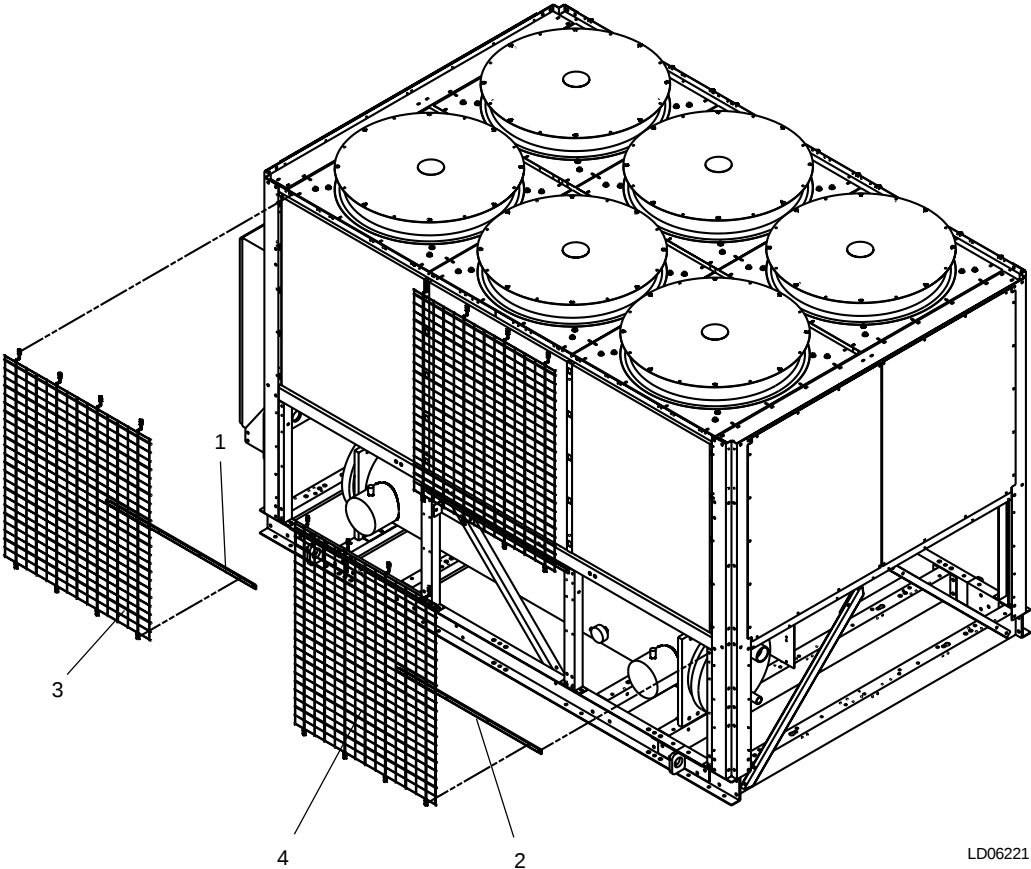
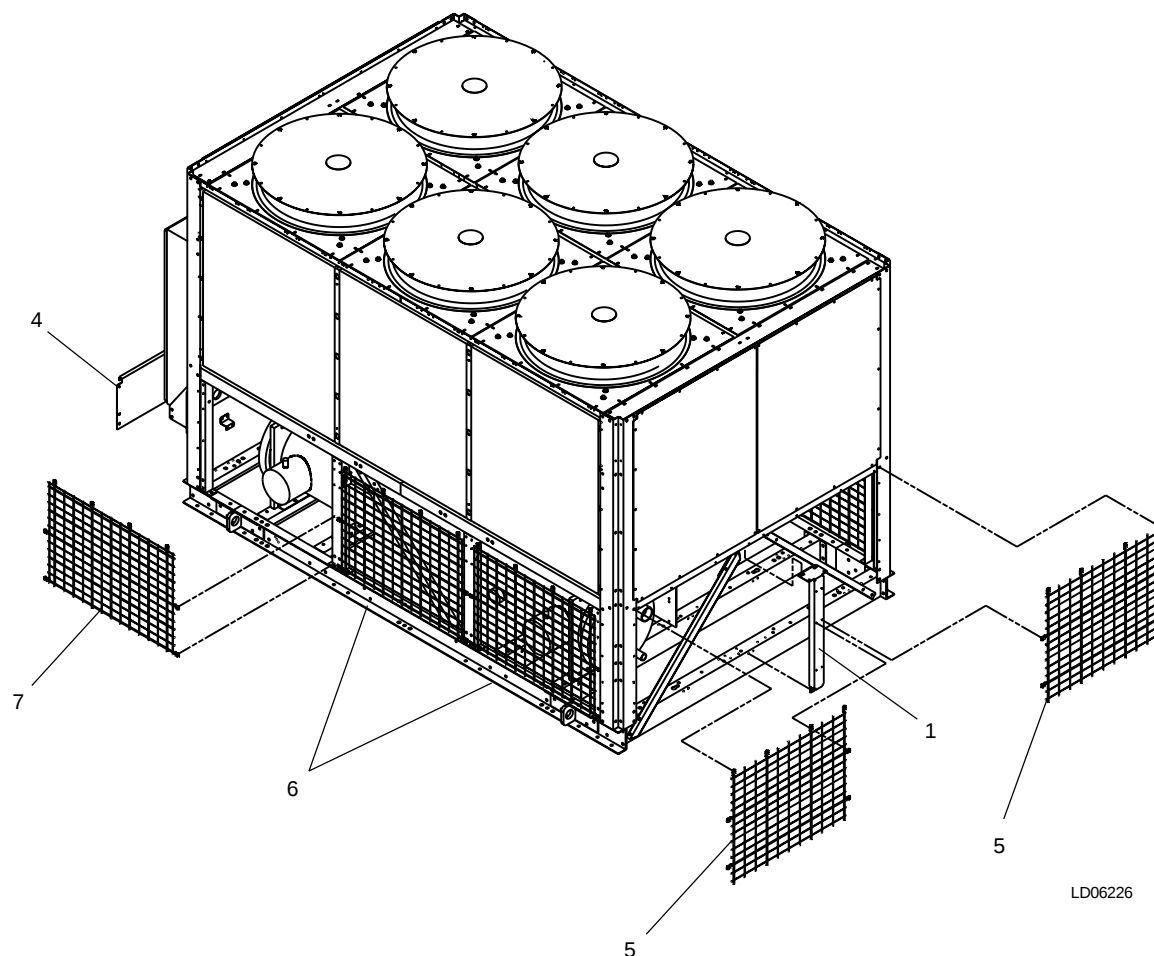


FIG. 38 – TOP SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-100 IS SHOWN.

TABLE 34 – TOP SECTION - WIRE ENCLOSURE

| TOP KIT COMPONENTS 375-29569-100 AND 375-29569-120 |      |                           |               |               |
|----------------------------------------------------|------|---------------------------|---------------|---------------|
| ITEM NUMBER                                        | QTY. | DESCRIPTION               | 375-29569-100 | 375-29569-120 |
| 1                                                  | 2    | CHANNEL                   | 075-29072-000 | 075-29588-000 |
| 2                                                  | 4    | Z CHANNEL DXST            | 075-29073-000 | 075-29589-000 |
| 3                                                  | 2    | WIRE GRILL CONDENSER DXST | 026-36770-000 | 026-36533-000 |
| 4                                                  | 4    | WIRE GRILL CONDENSER DXST | 026-36771-000 | 026-36533-000 |
| Not Shown                                          | 1    | HARDWARE KIT              | 321-29569-100 | 321-29569-120 |

## WIRE ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN

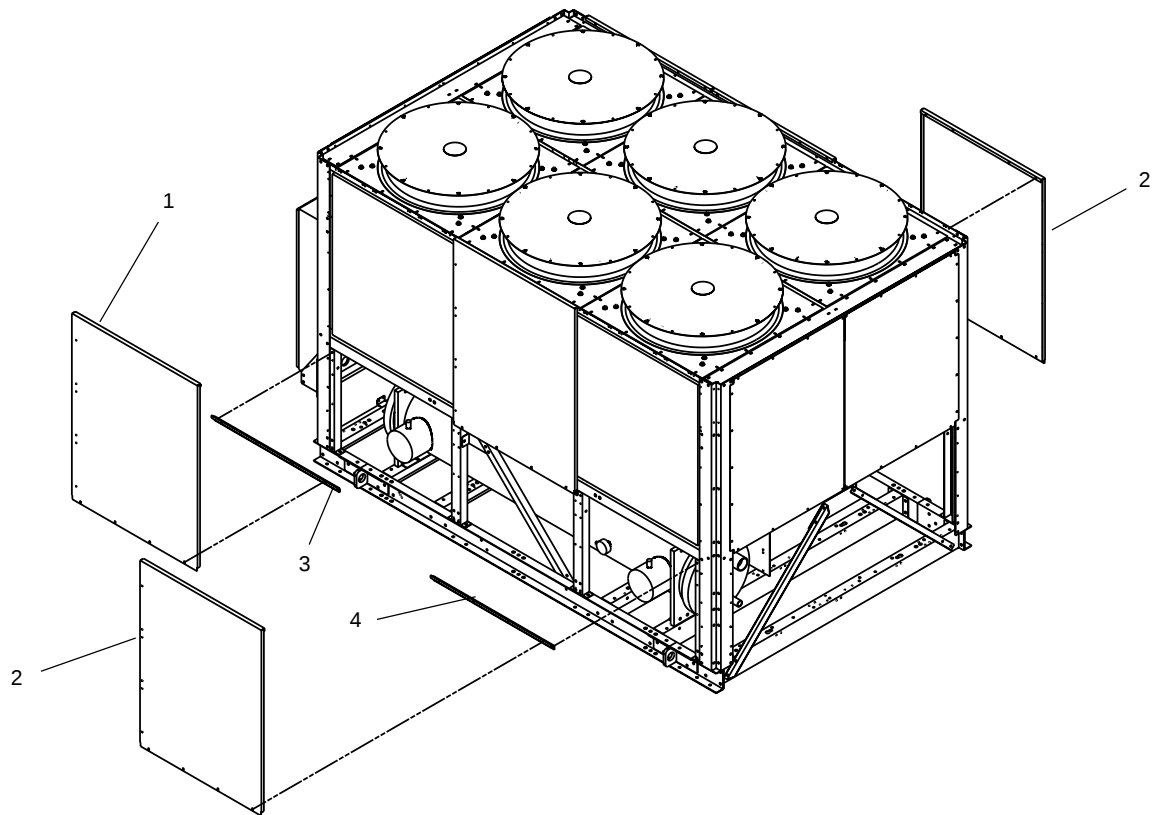


**FIG. 39 – BOTTOM SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-101 IS SHOWN.**

**TABLE 35 – BOTTOM SECTION - WIRE ENCLOSURE**

| BOTTOM KIT COMPONENTS 375-29569-101 AND 375-29081-121 |      |                           |               |               |
|-------------------------------------------------------|------|---------------------------|---------------|---------------|
| ITEM NUMBER                                           | QTY. | DESCRIPTION               | 375-29569-101 | 375-29081-121 |
| 1                                                     | 1    | REAR SUPPORT              | 075-29590-000 | 075-29590-000 |
| 2                                                     | 1    | PANEL VANITY RH           | N/A           | 075-29591-000 |
| 3                                                     | 1    | PANEL VANITY LH           | N/A           | 075-29592-000 |
| 4                                                     | 1    | TAMPERPROOF PANEL         | 075-29075-000 | 075-29075-000 |
| 5                                                     | 2    | WIRE GRILL CONDENSER REAR | 026-36565-000 | 026-36535-000 |
| 6                                                     | 4    | WIRE GRILL CONDENSER DXST | 026-36773-000 | 026-36534-000 |
| 7                                                     | 2    | WIRE GRILL CONDENSER DXST | 026-36772-000 | 026-36534-000 |
| Not Shown                                             | 1    | HARDWARE KIT              | 321-29569-101 | 321-29081-121 |

LOUVERED ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN



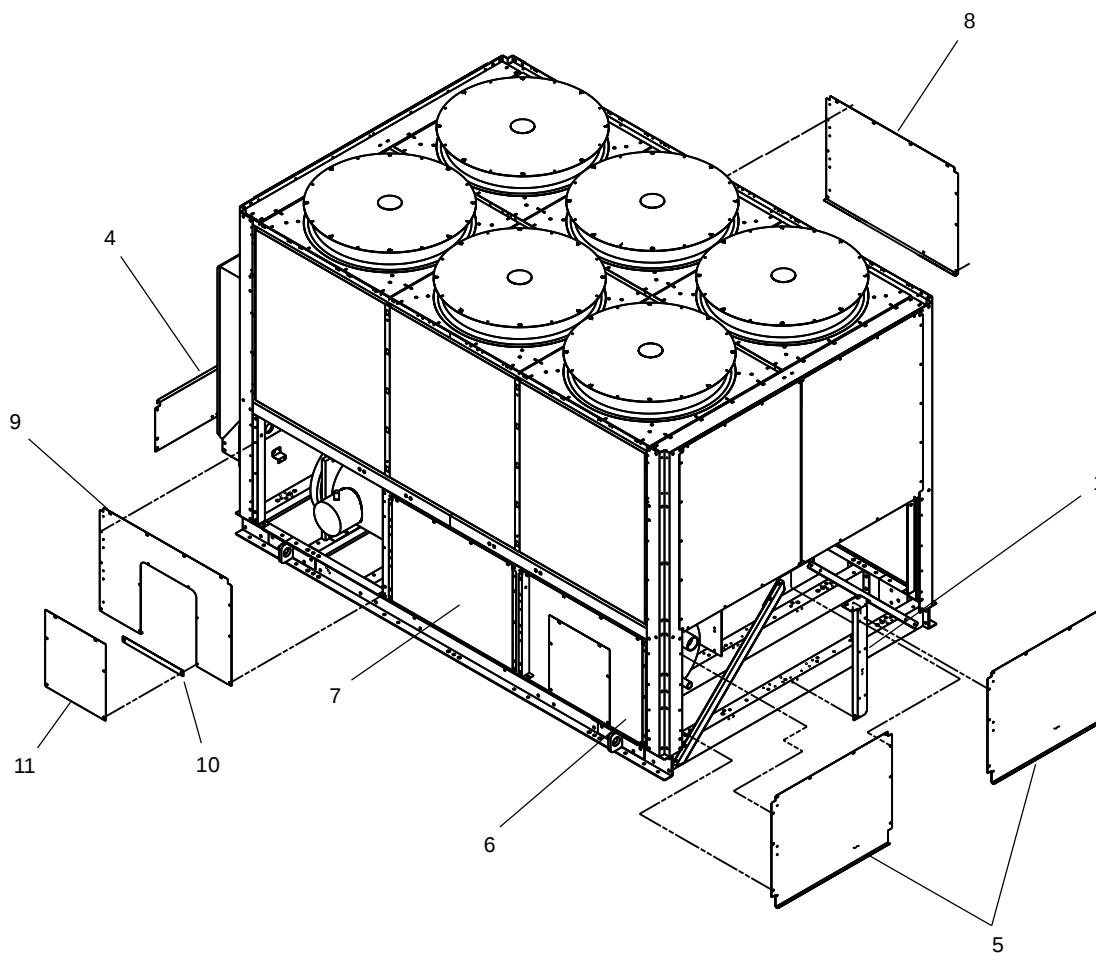
LD06223

FIG. 40 – TOP SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-100 IS SHOWN.

TABLE 36 – TOP SECTION - LOUVERED PANEL ENCLOSURE

| TOP KIT COMPONENTS 375-29571-100 AND 375-29571-120 |      |                       |               |               |
|----------------------------------------------------|------|-----------------------|---------------|---------------|
| ITEM NUMBER                                        | QTY. | DESCRIPTION           | 375-29571-100 | 375-29571-120 |
| 1                                                  | 2    | PANEL LOUVER          | 075-29068-000 | 075-29580-000 |
| 2                                                  | 4    | PANEL LOUVER          | 075-29069-000 | 075-29580-000 |
| 3                                                  | 2    | Z CHANNEL             | 075-29588-000 | 075-29572-000 |
| 4                                                  | 4    | Z CHANNEL TAMPERPROOF | 075-29089-000 | 075-29073-000 |
| Not Shown                                          | 1    | HARDWARE KIT          | 321-29571-100 | 321-29080-120 |

## LOUVERED ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN



LD06224

**FIG. 41 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-101 IS SHOWN.**

**TABLE 37 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE**

| BOTTOM KIT COMPONENTS 375-29571-101 AND 375-29080-121 |      |                          |               |               |
|-------------------------------------------------------|------|--------------------------|---------------|---------------|
| ITEM NUMBER                                           | QTY. | DESCRIPTION              | 375-29571-101 | 375-29080-121 |
| 1                                                     | 1    | REAR SUPPORT             | 075-29590-000 | 075-29590-000 |
| 2                                                     | 1    | PANEL VANITY RH          | N/A           | 075-29591-000 |
| 3                                                     | 1    | PANEL VANITY LH          | N/A           | 075-29592-000 |
| 4                                                     | 1    | TAMPERPROOF PANEL        | 075-29075-000 | 075-29075-000 |
| 5                                                     | 2    | LOUVERED PANEL REAR      | 075-29585-000 | 075-29585-000 |
| 6                                                     | 1    | LOUVERED PANEL DXST      | 075-29074-000 | 075-29583-000 |
| 7                                                     | 3    | LOUVERED PANEL DXST      | 075-29071-000 | 075-29581-000 |
| 8                                                     | 1    | LOUVERED PANEL DXST      | 075-35802-000 | 075-29581-000 |
| 9                                                     | 1    | LOUVERED PANEL DXST      | 075-29070-000 | 075-29582-000 |
| 10                                                    | 1    | WATER CONN COVER SUPPORT | 075-29587-000 | 075-29587-000 |
| 11                                                    | 1    | WATER CONN COVER         | 075-29586-000 | 075-29586-000 |
| Not Shown                                             | 1    | HARDWARE KIT             | 321-29571-101 | 321-29080-121 |

## RECOMMENDED SPARE PARTS

York Model YCAS Style F Air Cooled Screw Chillers  
Recommended Spare Parts List for Critical Duty Applications

All requests for parts should be made to your local YORK Sales And Service Center shown on inside back cover.

**TABLE 38 – SPARE PARTS**

| TABLE REF. & ITEM   | DESCRIPTION                    | PART<br>NUMBER  |
|---------------------|--------------------------------|-----------------|
| Tables 7-10, Item 5 | Filter / Drier (liquid line)   | 026-18328-000   |
| Tables 7&8, Item 1  | Valve, Thermal Expansion       | 025-32904-000   |
| Tables 9&10, Item 1 | Valve, Thermal Expansion       | 025-35757-000   |
| Table 21, Item 1    | Ambient Air Temp. Sensor       | 025-28663-001   |
| Table 21, Item 2    | Water Sensor (All)             | 025-29964-000   |
| Table 21, Item 5    | Suction Temp. Sensor           | 025-28935-000   |
| Table 21, Item 3    | Oil Temp. Sensor               | 025-30440-000   |
| Table 21, Item 4    | Discharge Temp. Sensor         | 025-32924-000   |
| Table 21, Item 6    | HP Cut-out (USA Std.)          | 025-30480-000   |
| Table 21, Item 7    | Suction Transducer             | 025-29583-000   |
| Table 23, Item 1C   | Suppressor                     | 031-00808-000   |
| Table 21, Item 8    | Discharge Transducer           | 025-29139-001   |
| Table 5&6, Item 1   | Fan Motor                      | See pages 10&11 |
| Table 5&6, Item 2   | Fan Blade                      | See pages 10&11 |
| Table 14, Item 50   | Oil filter cartridge           | 026-35601-000   |
| Table 14, Item 69   | O-ring for above filter        | 028-13849-000   |
| Table 14, Item Oil  | York Type L oil, POE, 5 gal. + | 011-00592-000   |
| Table 15, Item 61   | Capacity Control Valve         | 025-33205-000   |
| Table 23, Item 3    | Motor Protector                | 024-30907-000   |

+ Type L oil is used with both R-22 and R-407C refrigerants.

- Chiller Paint, 12 oz. Spray  
TAJ3721037 Desert Tan

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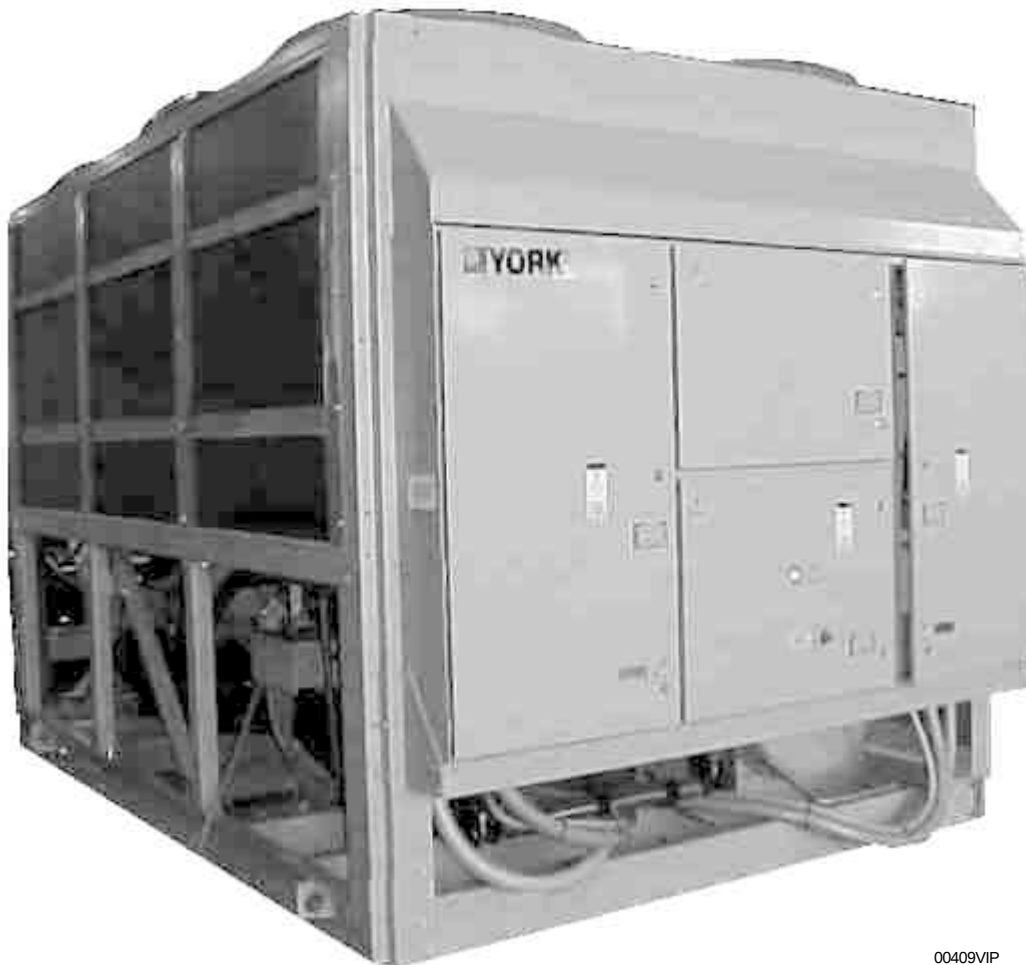
**RENEWAL PARTS LIST**

New Release

Form 201.18-RP5 (900)

**MODELS YCAS0090, YCAS0100, YCAS0110 & YCAS0120**

**60 HERTZ**



00409VIP

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| WIRE ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN .....     | 67          |
| LOUVERED ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN .....    | 68          |
| LOUVERED ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN ..... | 69          |
| RECOMMENDED SPARE PARTS .....                                 | 70          |

# WARNING

## HIGH VOLTAGE

**Is used in the operation of this equipment.**

## DEATH OR SERIOUS INJURY

**may result if personnel fail to observe safety precautions.**

Work on electronic equipment should not be undertaken unless the individual(s) have been trained in the proper maintenance of equipment and is (are) familiar with its potential hazards.

Shut off power supply to the equipment before beginning work and follow lockout procedures. When working inside equipment with power off, take care to discharge every capacitor likely to hold dangerous potential.

Be careful not to contact high voltage connections when installing or operating this equipment.

## LOW VOLTAGE

DO NOT be misled by the term "low voltage." Voltages as low as 50 volts may cause death.

## BASIC PART NUMBER

**YCAS0100EC46YFA**

|                   |          |          |          |                  |          |          |          |                 |             |                 |           |                     |                          |                  |
|-------------------|----------|----------|----------|------------------|----------|----------|----------|-----------------|-------------|-----------------|-----------|---------------------|--------------------------|------------------|
| <b>1</b>          | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b>         | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b>        | <b>10</b>   | <b>11</b>       | <b>12</b> | <b>13</b>           | <b>14</b>                | <b>15</b>        |
| BASE PRODUCT TYPE |          |          |          | NOMINAL CAPACITY |          |          |          | UNIT DESIGNATOR | REFRIGERANT | VOLTAGE/STARTER |           |                     | DESIGN/DEVELOPMENT LEVEL |                  |
| Y                 |          |          |          | 0                | #        | #        | #        | S               | B           | 1               | 7         |                     | F                        |                  |
|                   | C        |          |          |                  |          |          |          | E               | R-407C      | 2               | 8         | :200 / 3/ 60        |                          | :Design Series F |
|                   |          | A        |          |                  |          |          |          | H               | R-22        | 4               | 0         | :230 / 3/ 60        | A                        | :Engineering     |
|                   |          |          | S        |                  |          |          |          | K               |             | 4               | 0         | :380 / 3/ 60        |                          | Change           |
|                   |          |          |          |                  |          |          |          | H               |             | 4               | 6         | :460 / 3/ 60        |                          | or PIN Level     |
|                   |          |          |          |                  |          |          |          |                 |             | 5               | 8         | :575 / 3/ 60        |                          |                  |
|                   |          |          |          |                  |          |          |          |                 |             |                 |           | Y :Wye (Star) Delta |                          |                  |
|                   |          |          |          |                  |          |          |          |                 |             |                 |           | X :Across the Line  |                          |                  |

## PART NUMBER – LETTER CODES

[illegible]

**MP** = Multiple Point

**SP** = Single Point

**NF** = Non-Fused

**TB** = Terminal Block

**Ser.** = Service

**Sep. Sys. Brkr.** = Separate System Breaker

[illegible]

## 55

## EXTENDED WARRANTIES

|   |                                   |
|---|-----------------------------------|
| X | : 1st Year Parts Only             |
| B | : 1st Year Parts & Labor          |
| C | : 2nd Year Parts Only             |
| D | : 2nd Year Parts & Labor          |
| E | : 5 Year Compressor Parts Only    |
| F | : 5 Year Compressor Parts & Labor |
| G | : 5 Year Unit Parts Only          |
| H | : 5 Year Unit Parts & Labor       |

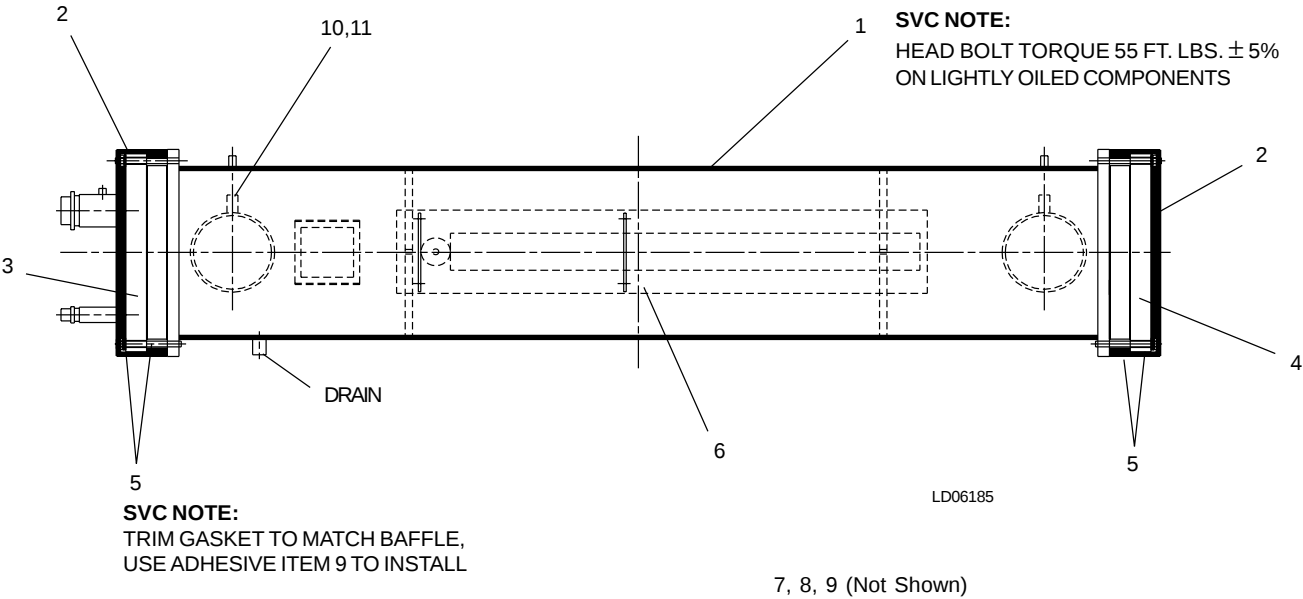
NOTES:

1. Q :DENOTES SPECIAL / S.Q.
2. # :DENOTES STANDARD
3. ☒ :w/in OPTIONS FIELD. DENOTES NO OPTION SELECTED

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# EVAPORATOR COMPONENTS

**SVC NOTE:**  
UNWEAT BRAZED ON  
STEEL COUPLINGS - FOR  
FIELD PIPE CONNECTION



**FIG. 1 – EVAPORATOR COMPONENTS - 150 PSI**

- 150# EVAPORATOR FLOW SWITCH 024-26116-000

**TABLE 1 – EVAPORATOR COMPONENTS - 150 PSI**

| ITEM NUMBER | QTY.<br>PER<br>UNIT | DESCRIPTION                                           | DWP | UNIT MODEL<br>YCAS0090 THRU<br>YCAS0120 |
|-------------|---------------------|-------------------------------------------------------|-----|-----------------------------------------|
| 1           | 1                   | Evaporator, less Heater & Insulation (Items 2 thru 5) | 150 | 375-32153-000                           |
| 2           | 1                   | Head, Front and Back                                  | ALL | 075-35113-000                           |
| 3           | 1                   | Baffle, Pass, Front                                   | ALL | 375-30235-000                           |
| 4           | 1                   | Baffle, Pass, Back                                    | ALL | 075-30238-000                           |
| 5           | 8                   | Gasket, Pass Baffle and Head                          | ALL | 075-30239-000                           |
| 6           | 1                   | Heater, Cooler 180 Watt                               | ALL | 025-22690-000                           |
| 7           | 3                   | Insulation (3/4" x 49" x 65")                         | ALL | 010-05997-000                           |
| 8           | 2                   | Insulation (1-1/2" x 49" x 65")                       | ALL | 010-05998-000                           |
| 9           | 1                   | Adhesive, 1.75 oz. Btl. (Not Shown)                   | ALL | 013-02293-000                           |
| 10          | 2                   | Pipe Plug 3/8"                                        | ALL | 023-01564-000                           |
| 11          | 2                   | Well, Thermo CU 1/2" x 9-1/2"                         | ALL | 026-33627-000                           |

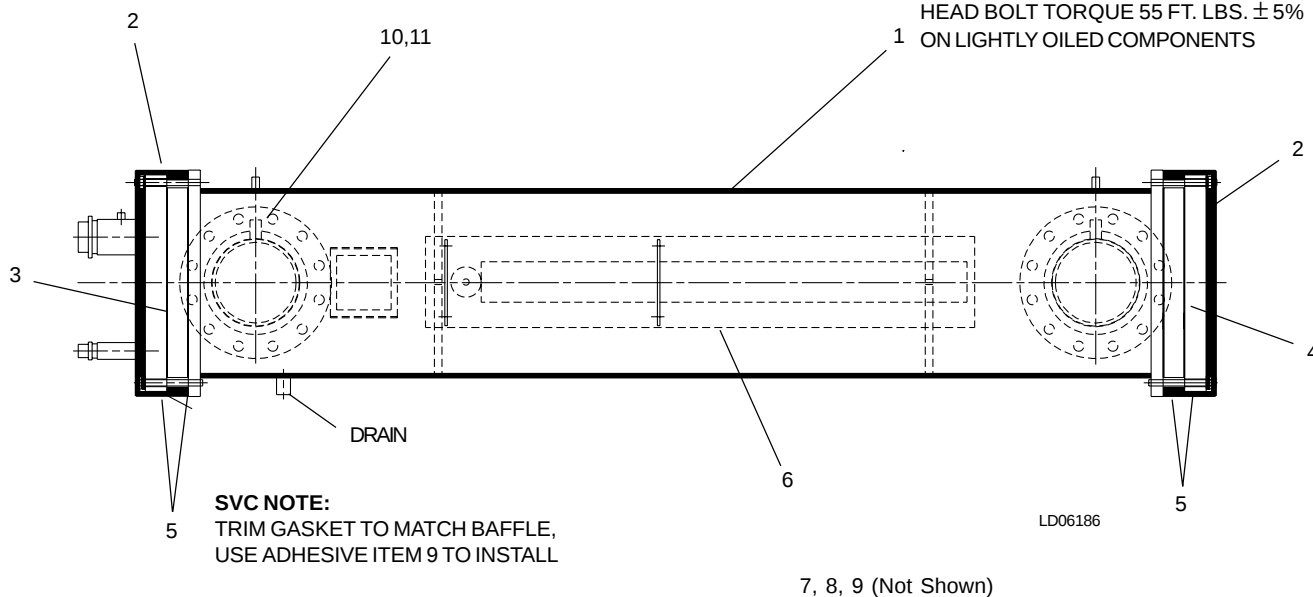
## EVAPORATOR COMPONENTS (CONT'D)

**SVC NOTE:**

UNWEAT BRAZED ON  
STEEL COUPLINGS - FOR  
FIELD PIPE CONNECTION

**SVC NOTE:**

HEAD BOLT TORQUE 55 FT. LBS.  $\pm$  5%  
ON LIGHTLY OILED COMPONENTS



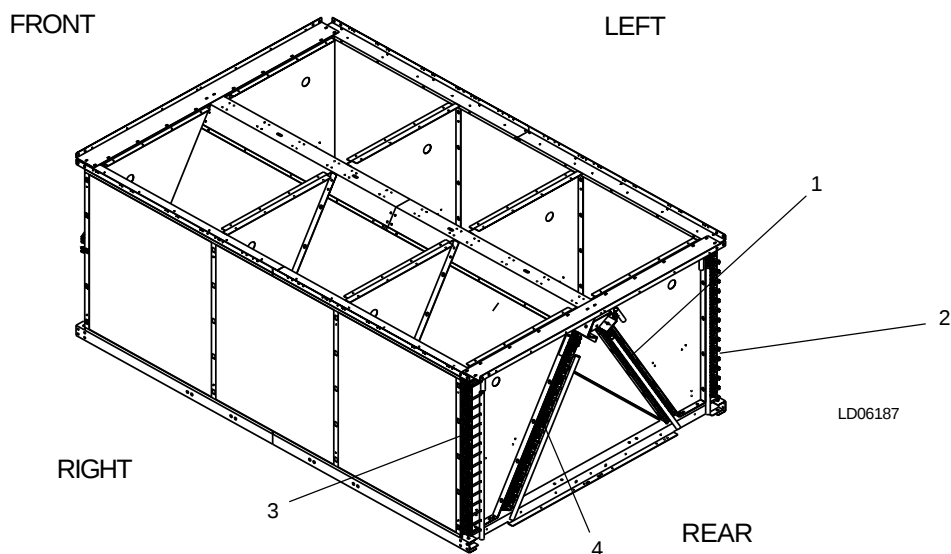
**FIG. 2 – EVAPORATOR COMPONENTS - 300 PSI**

- 300# EVAPORATOR FLOW SWITCH 024-12144-000 (PIN 38 in Model Number is 3)

**TABLE 2 – EVAPORATOR COMPONENTS - 300 PSI**

| ITEM NUMBER | QTY.<br>PER<br>UNIT | DESCRIPTION                                           | DWP | UNIT MODEL<br>YCAS0090 THRU<br>YCAS0120 |
|-------------|---------------------|-------------------------------------------------------|-----|-----------------------------------------|
| 1           | 1                   | Evaporator, less Heater & Insulation (Items 2 thru 5) | 300 | 375-32154-000                           |
| 2           | 1                   | Head, Front and Back                                  | ALL | 075-35113-000                           |
| 3           | 1                   | Baffle, Pass, Front                                   | ALL | 375-30235-000                           |
| 4           | 1                   | Baffle, Pass, Back                                    | ALL | 075-30238-000                           |
| 5           | 8                   | Gasket, Pass Baffle and Head                          | ALL | 075-30239-000                           |
| 6           | 1                   | Heater, Cooler 180 Watt                               | ALL | 025-22690-000                           |
| 7           | 3                   | Insulation (3/4" x 49" x 65")                         | ALL | 010-05997-000                           |
| 8           | 2                   | Insulation (1-1/2" x 49" x 65")                       | ALL | 010-05998-000                           |
| 9           | 1                   | Adhesive, 1.75 oz. Btl. (Not Shown)                   | ALL | 013-02293-000                           |
| 10          | 2                   | Pipe Plug 3/8"                                        | ALL | 023-01564-000                           |
| 11          | 2                   | Well, Thermo CU 1/2" x 9-1/2"                         | ALL | 026-33627-000                           |

## CONDENSER COIL COMPONENTS



VIEW OF CHILLER FROM POWER PANEL END

FIG. 3 – CONDENSER COIL LAYOUT

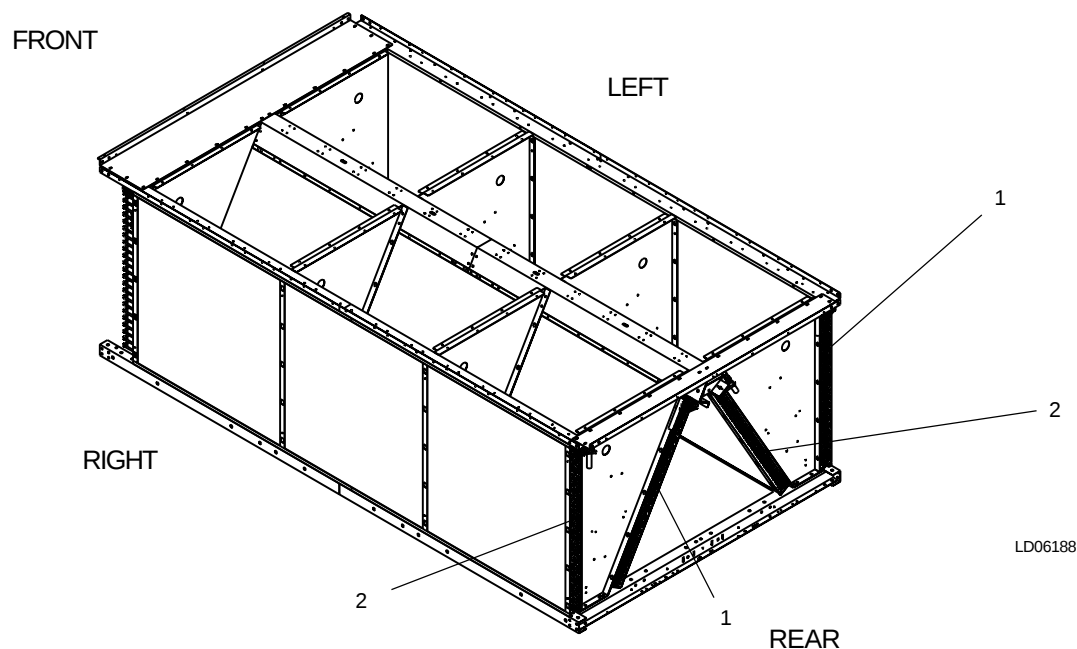
Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 3 – CONDENSER COILS – YCAS0090 AND YCAS0100

|                                     |                                    |      | MODELS<br>YCAS0090 - 0100<br>10.5' COIL |
|-------------------------------------|------------------------------------|------|-----------------------------------------|
| ITEM NUMBER                         | DESCRIPTION                        | QTY. | YORK PART NO.                           |
| <b>ALUMINUM FIN COIL</b>            |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-32252-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-32252-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-32252-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-32252-004                           |
| <b>BLACK FIN COIL</b>               |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-29092-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-29092-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-29092-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-29092-004                           |
| <b>PHENOLIC COATED ALUMINUM FIN</b> |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-33402-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-33402-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-33402-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-33402-004                           |
| <b>COPPER FIN</b>                   |                                    |      |                                         |
| 1                                   | Cond. Coil Assembly, Right (Sys 1) | 1    | 375-29093-003                           |
| 2                                   | Cond. Coil Assembly, Left (Sys 1)  | 1    | 375-29093-002                           |
| 3                                   | Cond. Coil Assembly, Right (Sys 2) | 1    | 375-29093-001                           |
| 4                                   | Cond. Coil Assembly, Left (Sys 2)  | 1    | 375-29093-004                           |

**NOTES:** Coil Assemblies are complete with headers.  
For headers – contact Factory Service.  
Tube-In-Tube Repairs – contact Factory Service.

## CONDENSER COIL COMPONENTS (CONT'D)



VIEW OF CHILLER FROM POWER PANEL END

FIG. 4 – CONDENSER COIL LAYOUT

Coils for each circuit are denoted left and right as viewed from power panel end of chiller.

TABLE 4 – CONDENSER COILS – YCAS0090 AND YCAS 0100

|                                     |                            | MODELS<br>YCAS0110 - 0120<br>12' COIL |               |
|-------------------------------------|----------------------------|---------------------------------------|---------------|
| ITEM NUMBER                         | DESCRIPTION                | QTY.                                  | YORK PART NO. |
| <b>ALUMINUM FIN COIL</b>            |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-27435-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-27435-002 |
| <b>BLACK FIN COIL</b>               |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-23772-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-23772-002 |
| <b>PHENOLIC COATED ALUMINUM FIN</b> |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-29011-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-29011-002 |
| <b>COPPER FIN</b>                   |                            |                                       |               |
| 1                                   | Cond. Coil Assembly, Right | 2                                     | 375-23778-001 |
| 2                                   | Cond. Coil Assembly, Left  | 2                                     | 375-23778-002 |

**NOTES:** Coil Assemblies are complete with headers.  
For headers – contact Factory Service.  
Tube-In-Tube Repairs – contact Factory Service.

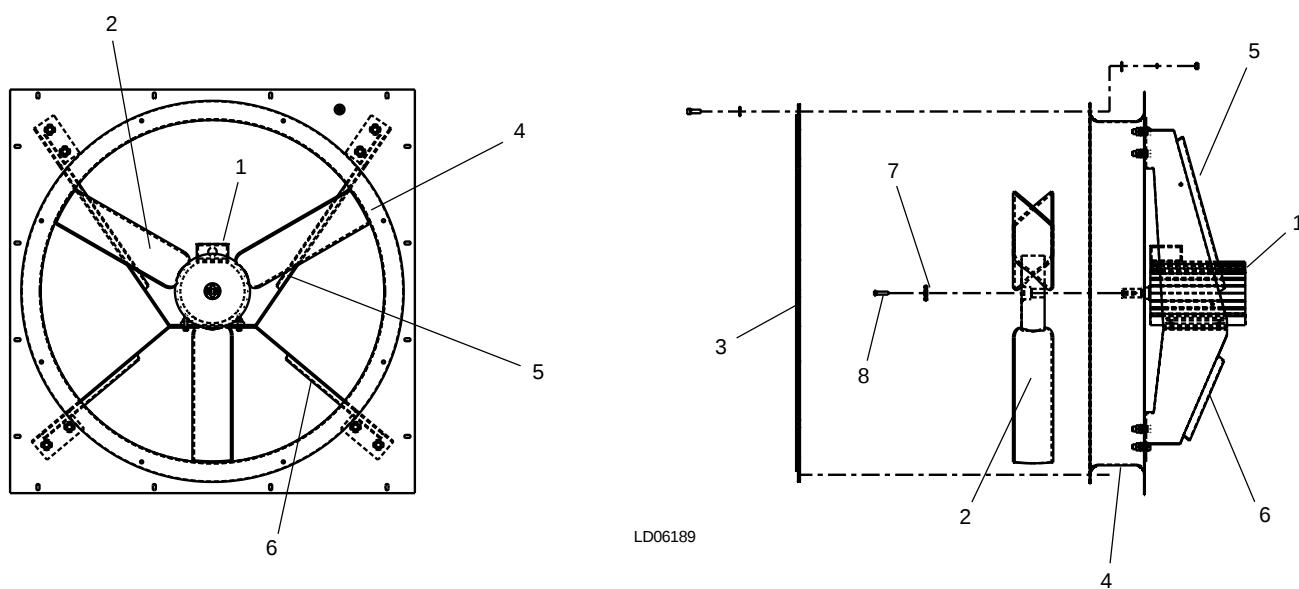
## FAN COMPONENTS

### CHILLER MODELS YCAS0090 AND YCAS0100

**TABLE 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100**

| ITEM NUMBER    | DESCRIPTION                      | VOLTAGE CODE | FAN TYPE                           |                                               |
|----------------|----------------------------------|--------------|------------------------------------|-----------------------------------------------|
|                |                                  |              | STANDARD<br>7/8" Ø SHAFT, 1160 RPM | LOW NOISE (OPTIONAL)<br>7/8" Ø SHAFT, 850 RPM |
| 1 <sup>s</sup> | Motor<br>2 HP<br>(Wt. = 50 LBS.) | -17          | 024-30900-002                      | 024-30933-002                                 |
|                |                                  | -28          | 024-30900-002                      | 024-30933-002                                 |
|                |                                  | -40          | 024-30900-004                      | 024-30933-004                                 |
|                |                                  | -46          | 024-30900-001                      | 024-30933-001                                 |
|                |                                  | -58          | 024-30900-003                      | 024-30933-003                                 |
| 2 <sup>s</sup> | Blade                            | All          | 026-35604-000 21°                  | 026-36532-000 30°                             |
| 3              | Guard                            | All          | 026-35605-000                      |                                               |
| 4              | Orifice                          | All          | 026-36760-000                      |                                               |
| 5              | Support, Motor, Upper            | All          | 075-29060-000                      |                                               |
| 6              | Support, Motor, Lower            | All          | 075-29061-000                      |                                               |
| 7              | Spacer, Fan Motor                | All          | 075-29007-000                      |                                               |
| 8              | Screw, Cap                       | All          | 021-18494-000                      |                                               |

<sup>s</sup>Recommended Spare Part



**FIG. 5 – FAN COMPONENTS - CHILLER MODELS YCAS0090 AND YCAS0100**

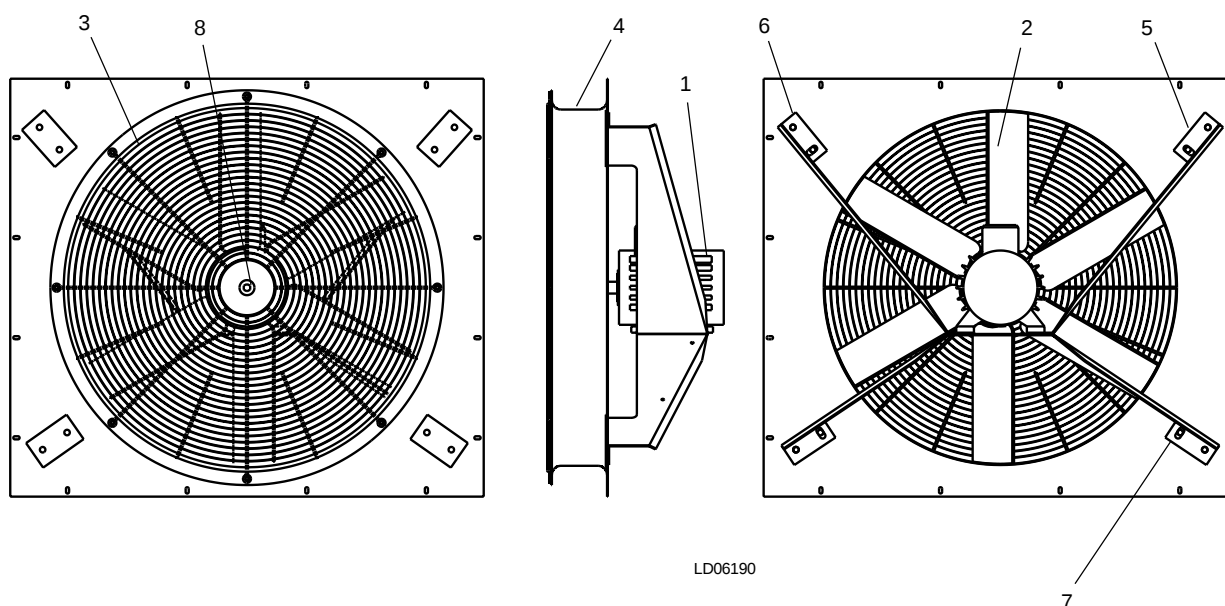
## FAN COMPONENTS (CONT'D)

### CHILLER MODELS YCAS0110 AND YCAS0120

**TABLE 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120**

| ITEM NUMBER          | DESCRIPTION                      | VOLTAGE CODE | FAN TYPE                             |                                                 |
|----------------------|----------------------------------|--------------|--------------------------------------|-------------------------------------------------|
|                      |                                  |              | STANDARD<br>1 1/8" Ø SHAFT, 1160 RPM | LOW NOISE (OPTIONAL)<br>1 3/8" Ø SHAFT, 850 RPM |
| <b>1<sup>s</sup></b> | Motor<br>3 HP<br>(Wt. = 50 LBS.) | -17          | 024-25179-002                        | 024-25247-000                                   |
|                      |                                  | -28          | 024-25179-002                        | 024-25247-000                                   |
|                      |                                  | -40          | 024-25179-001                        | 024-25247-000                                   |
|                      |                                  | -46          | 024-25179-001                        | 024-25247-000                                   |
|                      |                                  | -58          | 024-25250-000                        | 024-25252-000                                   |
| <b>2<sup>s</sup></b> | Blade                            | All          | 026-36769-000 21°                    | 026-36786-000 30°                               |
| <b>3</b>             | Guard                            | All          | 026-35605-000                        |                                                 |
| <b>4</b>             | Orifice                          | All          | 026-36141-000                        |                                                 |
| <b>5</b>             | Support, Motor, Upper            | All          | 075-25584-000                        |                                                 |
| <b>6</b>             | Support, Motor, Lower            | All          | 075-25583-000                        |                                                 |
| <b>7</b>             | Spacer, Fan Motor                | All          | 075-29007-000                        |                                                 |
| <b>8</b>             | Screw, Cap                       | All          | 021-18494-000                        |                                                 |

<sup>s</sup>Recommended Spare Part

**FIG. 6 – FAN COMPONENTS - CHILLER MODELS YCAS0110 AND YCAS0120**

## PIPING COMPONENTS CHILLER MODEL YCAS0090

**TABLE 7 – PIPING COMPONENTS (SEE FIG. 7, PAGE 13)**

| ITEM NO.       | QTY PER UNIT      | DESCRIPTION                                     | SYSTEM                  | YCAS0090                       |
|----------------|-------------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 2                 | Valve, Thermal Exp.- Cooler                     | Both                    | 025-32904-000                  |
| 2              | 1                 | Valve, Thermal Exp.- Econom.                    | N/A                     | N/A                            |
| 3              | 1                 | Valve, Solenoid, Liq. Line                      | Both                    | 025-33705-000                  |
| 4              | 2                 | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 2                 | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 1                 | Moisture Indicator, Body                        | Both                    | 026-32398-000                  |
| 7              | 2                 | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2                 | Valve, Liquid Stop                              | Both                    | 022-10022-000                  |
| 9              | 1                 | Valve, Solenoid, Liq. Line                      | Both                    | 025-33705-000                  |
| 10             | 4                 | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1                 | Economizer, Heat X                              | N/A                     | N/A                            |
| 12             | 2 per<br>circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2                 | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 2                 | Valve, Solenoid, Econo                          | N/A                     | N/A                            |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Part

PIPING COMPONENTS (CONT'D)  
CHILLER MODEL YCAS0090

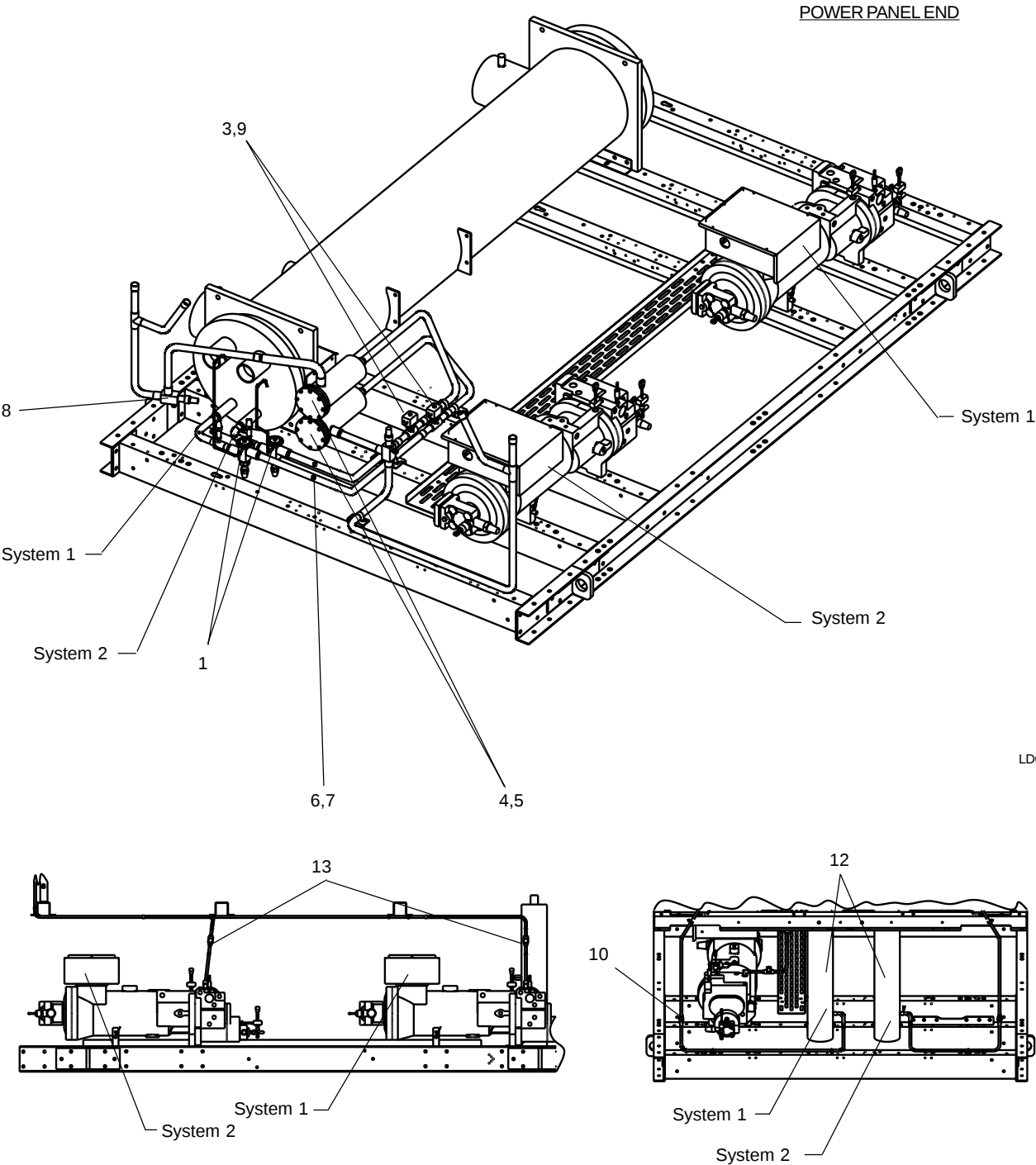


FIG. 7 – PIPING COMPONENTS (REF. TABLE 7, PAGE 12)

## PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0100

**TABLE 8 – PIPING COMPONENTS (SEE FIG. 8, PAGE 15)**

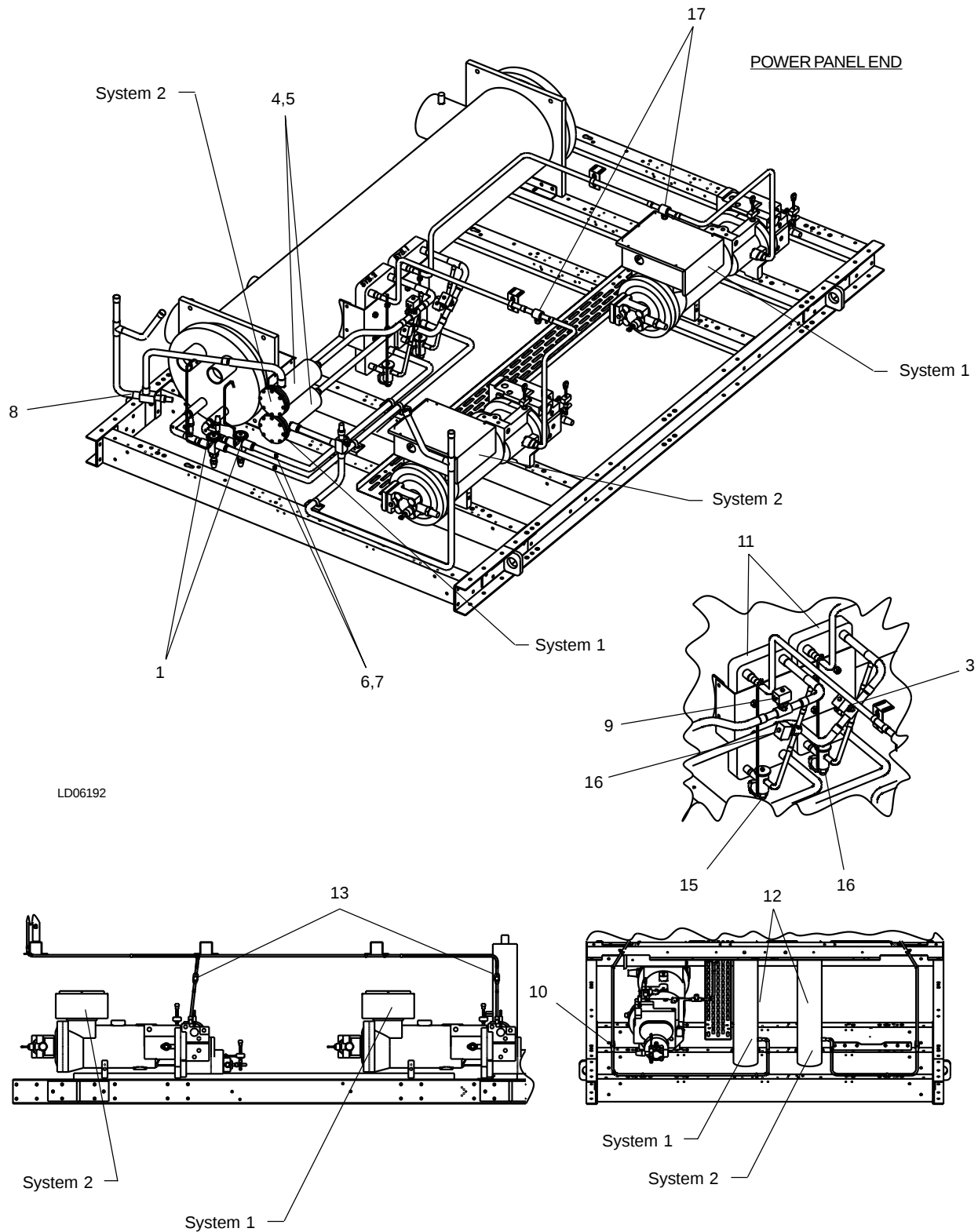
| ITEM NO.       | QTY PER UNIT   | DESCRIPTION                                     | SYSTEM                  | YCAS0100                       |
|----------------|----------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 2              | Valve, Thermal Exp.- Cooler                     | Both                    | 025-32904-000                  |
| 2              | 1              | Valve, Thermal Exp.- Econom.                    | N/A                     | N/A                            |
| 3              | 1              | Valve, Solenoid, Liq. Line                      | Both                    | 025-33704-000                  |
| 4              | 2              | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 2              | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 1              | Moisture Indicator, Body                        | Both                    | 026-32398-000                  |
| 7              | 2              | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2              | Valve, Liquid Stop                              | Both                    | 022-09778-000                  |
| 9              | 1              | Valve, Solenoid, Liq. Line                      | Both                    | 025-33705-000                  |
| 10             | 4              | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1              | Economizer, Heat X                              | Both                    | 026-36761-000                  |
| 12             | 2 per circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2              | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 2              | Valve, Solenoid, Econo                          | N/A                     | N/A                            |
| 15             | 2              | Valve, Solenoid                                 | Both                    | 025-34509-000                  |
| 16             | 1              | Valve, Thermal Exp.                             | Both                    | 026-33280-000                  |
| 17             | 2              | Valve                                           | Both                    | 022-10023-000                  |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Parts

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0100



**FIG. 8 – PIPING COMPONENTS (REF. TABLE 8, PAGE 14)**

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0110

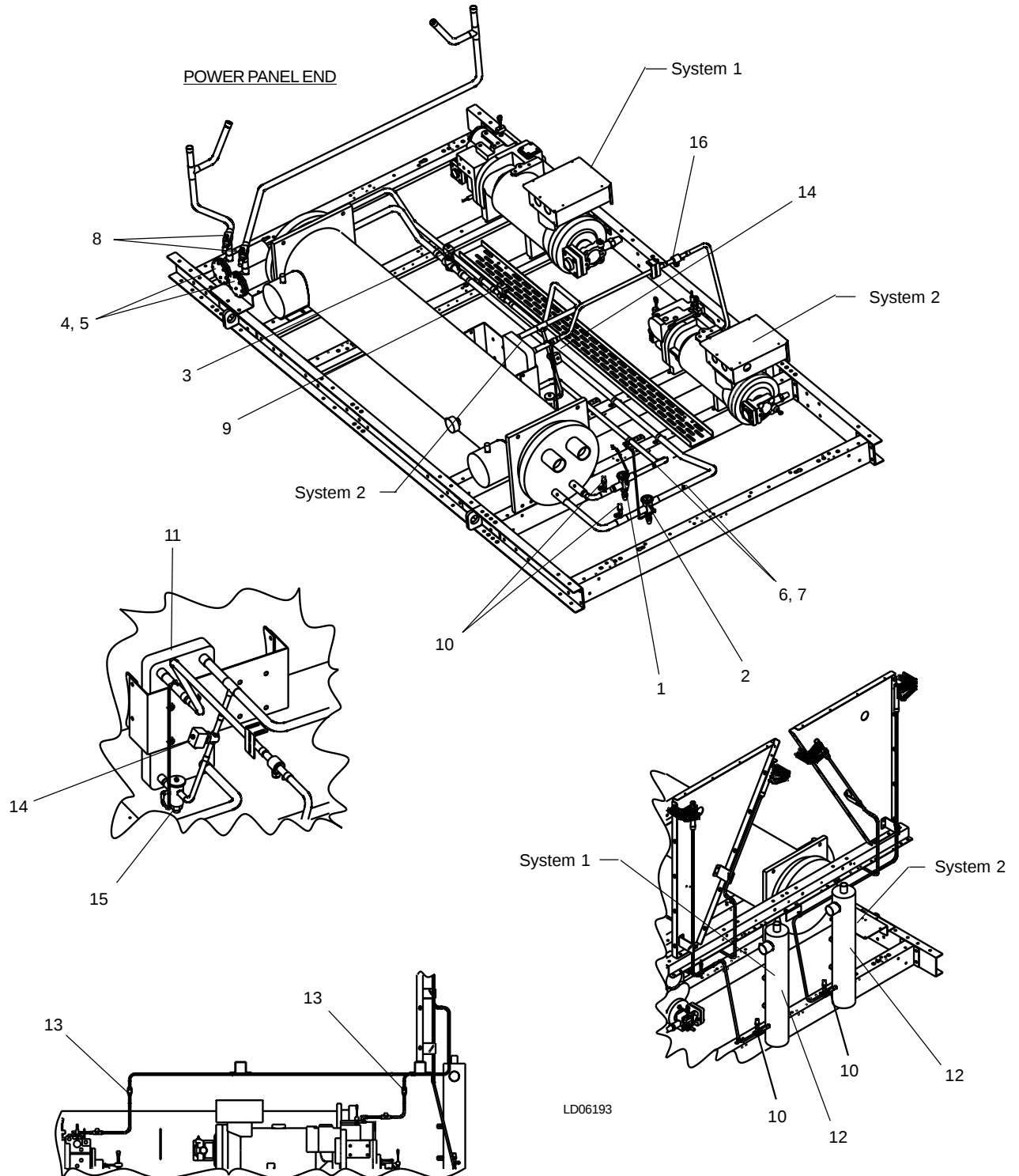
**TABLE 9 – PIPING COMPONENTS (SEE FIG. 9, PAGE 17)**

| ITEM NO.       | QTY PER UNIT      | DESCRIPTION                                     | SYSTEM                  | YCAS0110                       |
|----------------|-------------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 1                 | Valve, Thermal Exp.- Cooler                     | Sys. 1                  | 025-35757-000                  |
| 2              | 1                 | Valve, Thermal Exp.- Econom.                    | Sys. 2                  | 025-33280-000                  |
| 3              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 1                  | 025-33704-000                  |
| 4              | 2                 | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 2                 | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 2                 | Moisture Indicator, Body                        | Both                    | 026-32398-000                  |
| 7              | 2                 | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2                 | Valve, Liquid Stop                              | Both                    | 022-09778-000                  |
| 9              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 2                  | 025-33705-000                  |
| 10             | 4                 | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1                 | Economizer, Heat X                              | Sys. 2                  | 026-36761-000                  |
| 12             | 2 per<br>circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2                 | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 1                 | Valve, Solenoid                                 | Sys. 2                  | 025-34509-000                  |
| 15             | 1                 | Valve, Thermal Exp.                             | Sys. 2                  | 025-09795-000                  |
| 16             | 1                 | Valve                                           | Sys. 2                  | 022-10023-000                  |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Part

## PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0110



**FIG. 9 – PIPING COMPONENTS (REF. TABLE 9, PAGE 16)**

## PIPING COMPONENTS (CONT'D)

### CHILLER MODEL YCAS0120

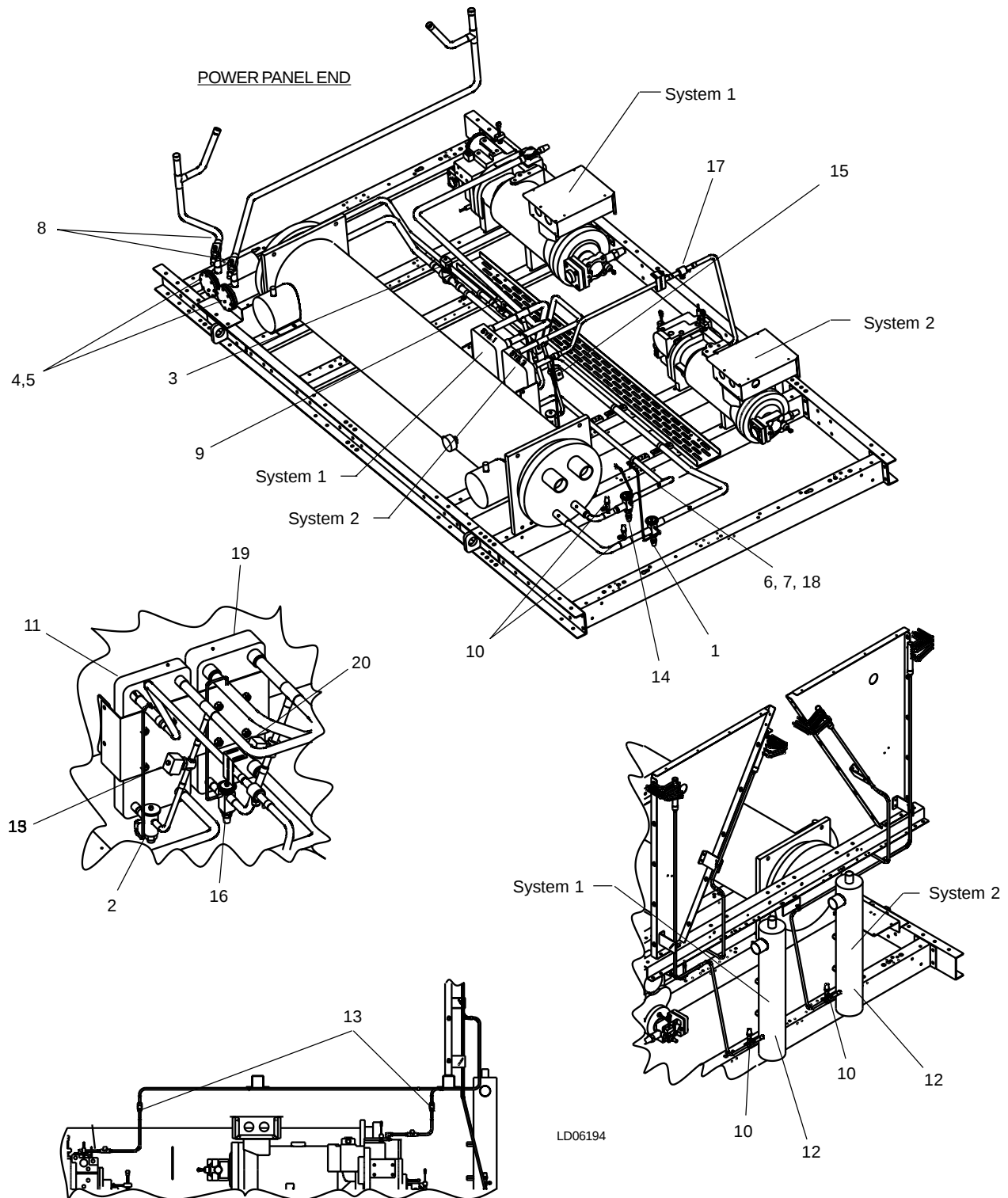
**TABLE 10 – PIPING COMPONENTS (SEE FIG. 10, PAGE 19)**

| ITEM NO.       | QTY PER UNIT      | DESCRIPTION                                     | SYSTEM                  | YCAS0120                       |
|----------------|-------------------|-------------------------------------------------|-------------------------|--------------------------------|
| 1 <sup>s</sup> | 1                 | Valve, Thermal Exp.- Cooler                     | Sys. 1                  | 025-35757-000                  |
| 2              | 1                 | Valve, Thermal Exp.- Econom.                    | Sys. 2                  | 022-09795-000                  |
| 3              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 1                  | 025-33704-000                  |
| 4              | 2                 | Dehydrator, Body<br>(Replaceable Core)          | Both                    | 026-21055-000                  |
| 5 <sup>s</sup> | 4                 | Core, Dehydrator                                | Both                    | 026-18328-000                  |
| 6              | 1                 | Moisture Indicator, Body                        | Sys. 2                  | 026-32398-000                  |
| 7              | 2                 | Moisture Indicator, Sight Glass<br>Cap Assembly | Both                    | 026-32800-000                  |
| 8              | 2                 | Valve, Liquid Stop                              | Both                    | 022-09778-000                  |
| 9              | 1                 | Valve, Solenoid, Liq. Line                      | Sys. 2                  | 025-33705-000                  |
| 10             | 4                 | Valve, Charging 3/8"                            | Both                    | 022-09754-000                  |
| 11             | 1                 | Economizer, Heat X                              | Sys. 2                  | 026-36761-000                  |
| 12             | 2 per<br>circuit* | Oil Separator                                   | Right Side<br>Left Side | 075-23738-002<br>075-23738-001 |
| 13             | 2                 | Valve, Ball, Oil Line                           | Both                    | 022-09172-000                  |
| 14             | 1                 | Valve, Thermal Exp.                             | Sys. 2                  | 025-32904-000                  |
| 15             | 1                 | Valve, Solenoid                                 | Sys. 2                  | 025-34509-000                  |
| 16             | 1                 | Valve, Thermal Exp.                             | Sys. 1                  | 025-33280-000                  |
| 17             | 1                 | Valve                                           | Sys. 2                  | 022-10023-000                  |
| 18             | 1                 | Moisture Indicator, Body                        | Sys. 1                  | 026-32397-000                  |
| 19             | 1                 | Heat Exchanger                                  | Sys. 1                  | 026-34418-000                  |
| 20             | 1                 | Valve, Solenoid                                 | Sys. 1                  | 026-33282-000                  |

\* Each Refrigerant Circuit has a right and left separator as viewed from the control panel end of the chiller.  
Be sure to order the correct number when replacing separators.

<sup>s</sup> Recommended Spare Part.

## PIPING COMPONENTS (CONT'D) CHILLER MODEL YCAS0120



**FIG. 10 – PIPING COMPONENTS (REF. TABLE 10, PAGE 18)**

# RELIEF VALVES AND HP CUTOUT SWITCH

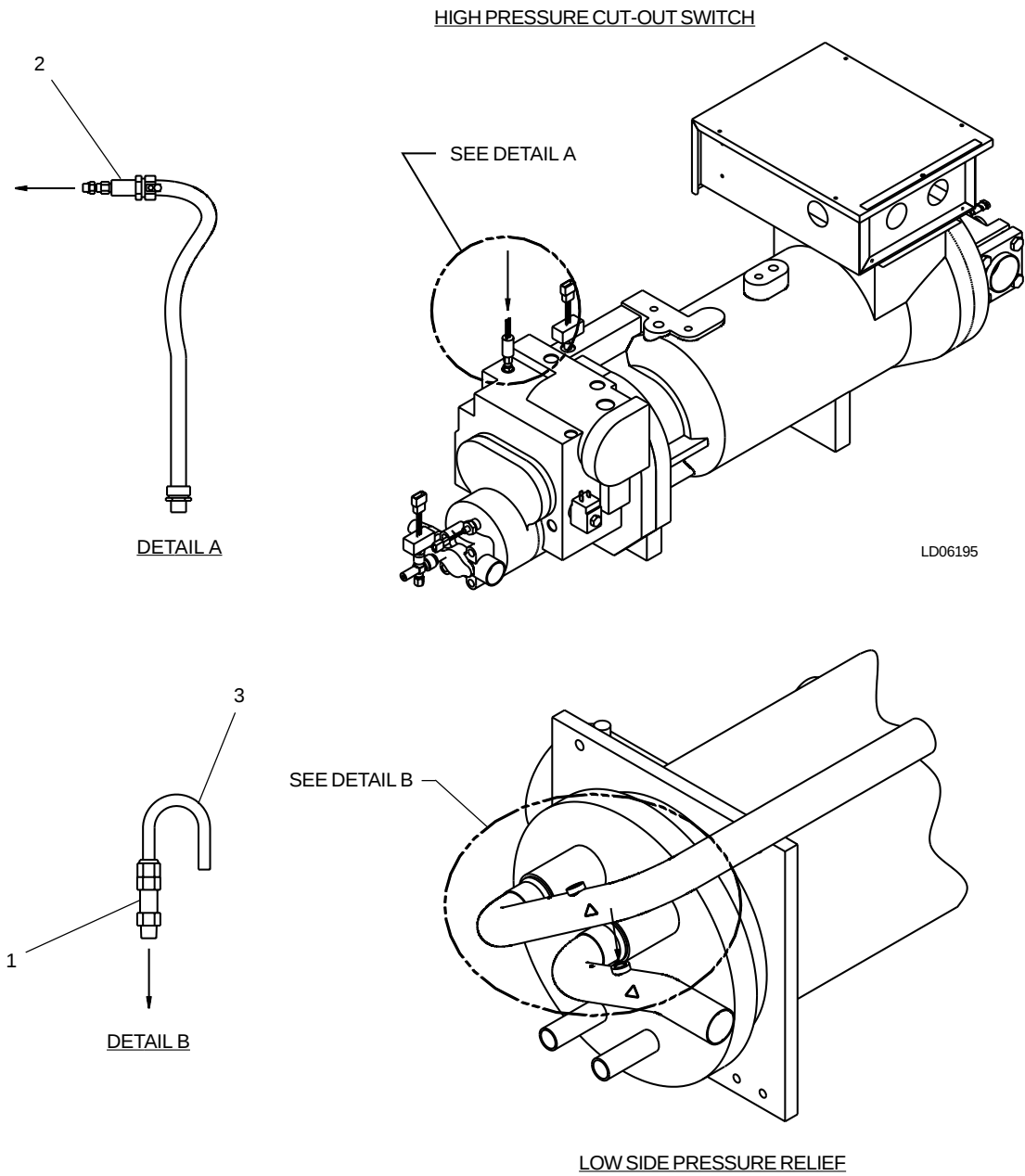


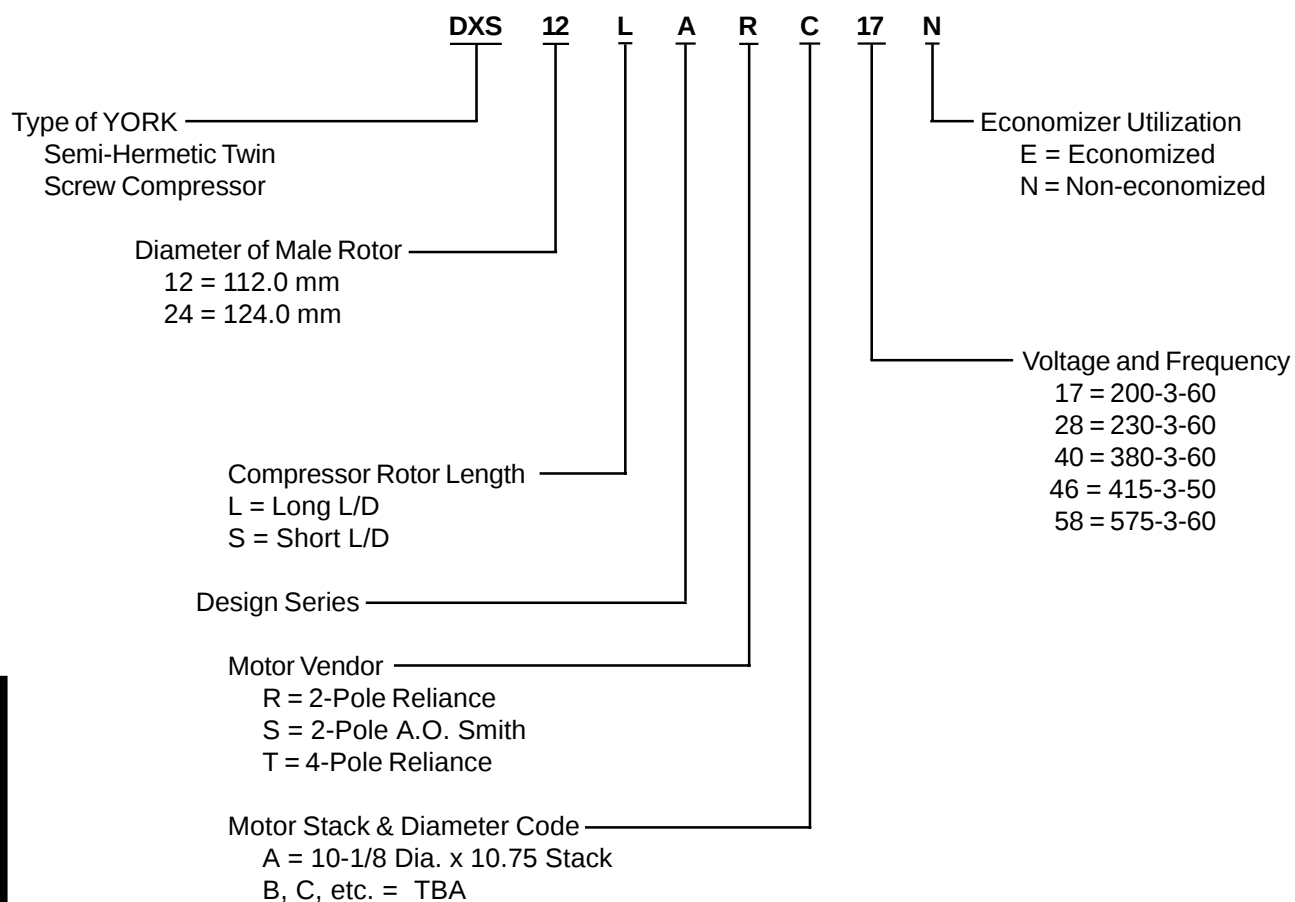
FIG. 11 – RELIEF VALVES AND HP CUTOUT SWITCH

TABLE 11 – RELIEF VALVES AND HP CUTOUT SWITCH

| ITEM | QUANTITY | DESCRIPTION                     | SYSTEM | ALL MODELS    |
|------|----------|---------------------------------|--------|---------------|
| 1    | 2        | Low Side Relief, Angle V 21 Bar | Both   | 022-10045-000 |
| 2    | 2        | HP Sw, NC, Auto Reset           | Both   | 025-30480-000 |
| 3    | 2        | Tube for 1                      | Both   | 375-30919-000 |

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## COMPRESSOR MODEL NOMENCLATURE



### COMPRESSOR WEIGHTS

| MM SIZE | WEIGHT (LBS)* | Kg  |
|---------|---------------|-----|
| 112     | 760           | 345 |
| 124     | 1175          | 533 |

\* LESS VALVES

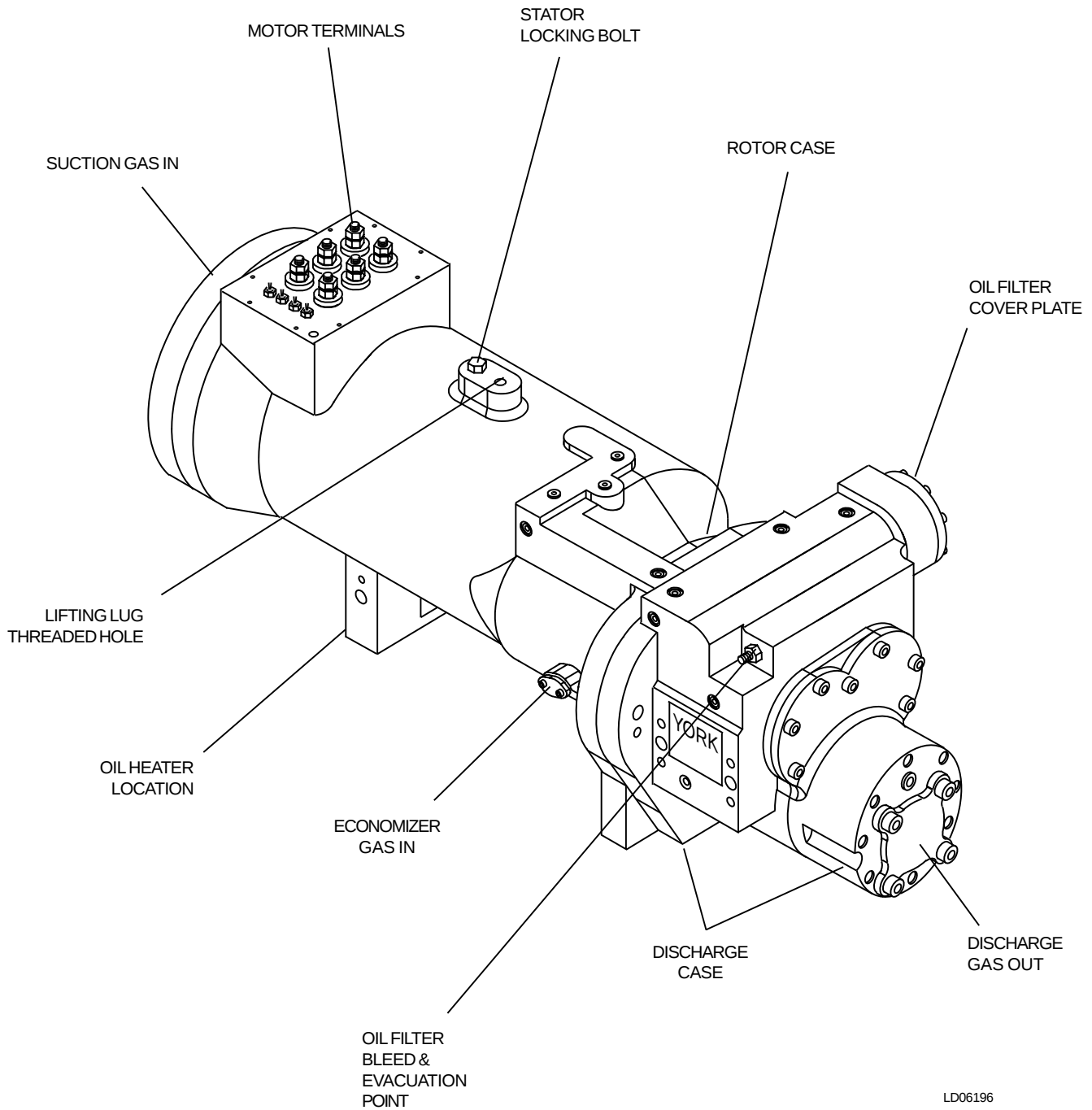
## COMPRESSOR PART NUMBERS

| COMPRESSOR PART NUMBERS |              |           |       |               |               |
|-------------------------|--------------|-----------|-------|---------------|---------------|
| UNIT                    | VOLTAGE CODE | SIZE (MM) |       | COMPRESSOR    |               |
|                         |              | SYS 1     | SYS 2 | SYSTEM # 1    | SYSTEM # 2    |
| YCAS0090                | -17          | 112       | 112   | 364-49096-012 | 364-49096-012 |
|                         | -28          | 112       | 112   | 364-49096-013 | 364-49096-013 |
|                         | -40          | 112       | 112   | 364-49096-014 | 364-49096-014 |
|                         | -46          | 112       | 112   | 364-49096-015 | 364-49096-015 |
|                         | -58          | 112       | 112   | 364-49096-016 | 364-49096-016 |
| YCAS0100                | -17          | 112       | 112   | 364-49096-112 | 364-49096-112 |
|                         | -28          | 112       | 112   | 364-49096-113 | 364-49096-113 |
|                         | -40          | 112       | 112   | 364-49096-114 | 364-49096-114 |
|                         | -46          | 112       | 112   | 364-49096-115 | 364-49096-115 |
|                         | -58          | 112       | 112   | 364-49096-116 | 364-49096-116 |
| YCAS0110                | -17          | 124       | 112   | 364-49095-012 | 364-49096-112 |
|                         | -28          | 124       | 112   | 364-49095-013 | 364-49096-113 |
|                         | -40          | 124       | 112   | 364-49095-014 | 364-49096-114 |
|                         | -46          | 124       | 112   | 364-49095-015 | 364-49096-115 |
|                         | -58          | 124       | 112   | 364-49095-016 | 364-49096-116 |
| YCAS0120                | -17          | 124       | 112   | 364-49095-112 | 364-49096-112 |
|                         | -28          | 124       | 112   | 364-49095-113 | 364-49096-113 |
|                         | -40          | 124       | 112   | 364-49095-114 | 364-49096-114 |
|                         | -46          | 124       | 112   | 364-49095-115 | 364-49096-115 |
|                         | -58          | 124       | 112   | 364-49095-116 | 364-49096-116 |

Compressor

- Compressor Change Out Kit  
(Includes gaskets and O-rings)  
464-49737-000 one per each compressor
  
- Compressor Isolator Pad Kit  
(Reduces sound and vibration)  
475-37845-000 one per each compressor or  
475-37845-001 one per each compressor  
(Not required for compressor change out)

# COMPRESSOR COMPONENTS



**FIG. 12 – DXS COMPRESSOR OUTLINE**

## COMPRESSOR COMPONENTS / RELATED PARTS

**TABLE 12 – COMPRESSOR ASSEMBLY (SEE FIG. 13, PAGE 26)**

| ITEM NO. | PART DESCRIPTION                      | PART NUMBER   |
|----------|---------------------------------------|---------------|
| 1        | CASE, ROTOR/MOTOR                     | 064-49122-000 |
| 2        | ROTOR, MALE                           | 064-48977-000 |
| 3        | ROTOR, FEMALE                         | 064-48978-000 |
| 5        | PISTON, CAPACITY CONTROL              | 064-49438-000 |
| 7        | KEY, MOUNTING                         | 029-22911-000 |
| 8        | SPRING, CAPACITY CONTROL              | 029-22908-000 |
| 9        | BEARING, RADIAL                       | 029-22905-000 |
| 13       | PLUG - HOLLOW HEX 1-7/8"              | 029-22735-000 |
| 14       | RING, RETAINING                       | 029-22743-000 |
| 18       | O-RING 3 - 908                        | 028-13856-000 |
| 28       | PLUG - HOLLOW HEX 9/16"               | 023-18922-000 |
| 29       | O-RING 3 - 906                        | 028-13855-000 |
| 30       | PLUG - 0.032 ORIFICE                  | 029-22716-000 |
| 31       | PLUG - 0.093 ORIFICE                  | 029-22717-000 |
| 32       | PLUG, HOLLOW HEX - 3/4"               | 023-18923-000 |
| 33       | GASKET, 7/8"                          | 028-13948-000 |
| 34       | PLATE, VALVE COVER                    | 064-49441-000 |
| 35       | SCREW, SOCKET HD. CAP - M8 x 25mm LG. | 021-19615-000 |
| 36       | O-RING 2 - 273                        | 028-13950-000 |
| 41       | O-RING 2 - 015                        | 028-13858-000 |
| 42       | VALVE, INTERNAL PRESSURE RELIEF       | 022-09711-000 |
| 202      | PLUG, ECONOMIZER                      | 064-49506-000 |
| 203      | RING, SUPPORT                         | 028-13961-000 |

- Compressor Change Out Kit  
(Includes gaskets and O-Rings)  
464-49737-000 one per each compressor

COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

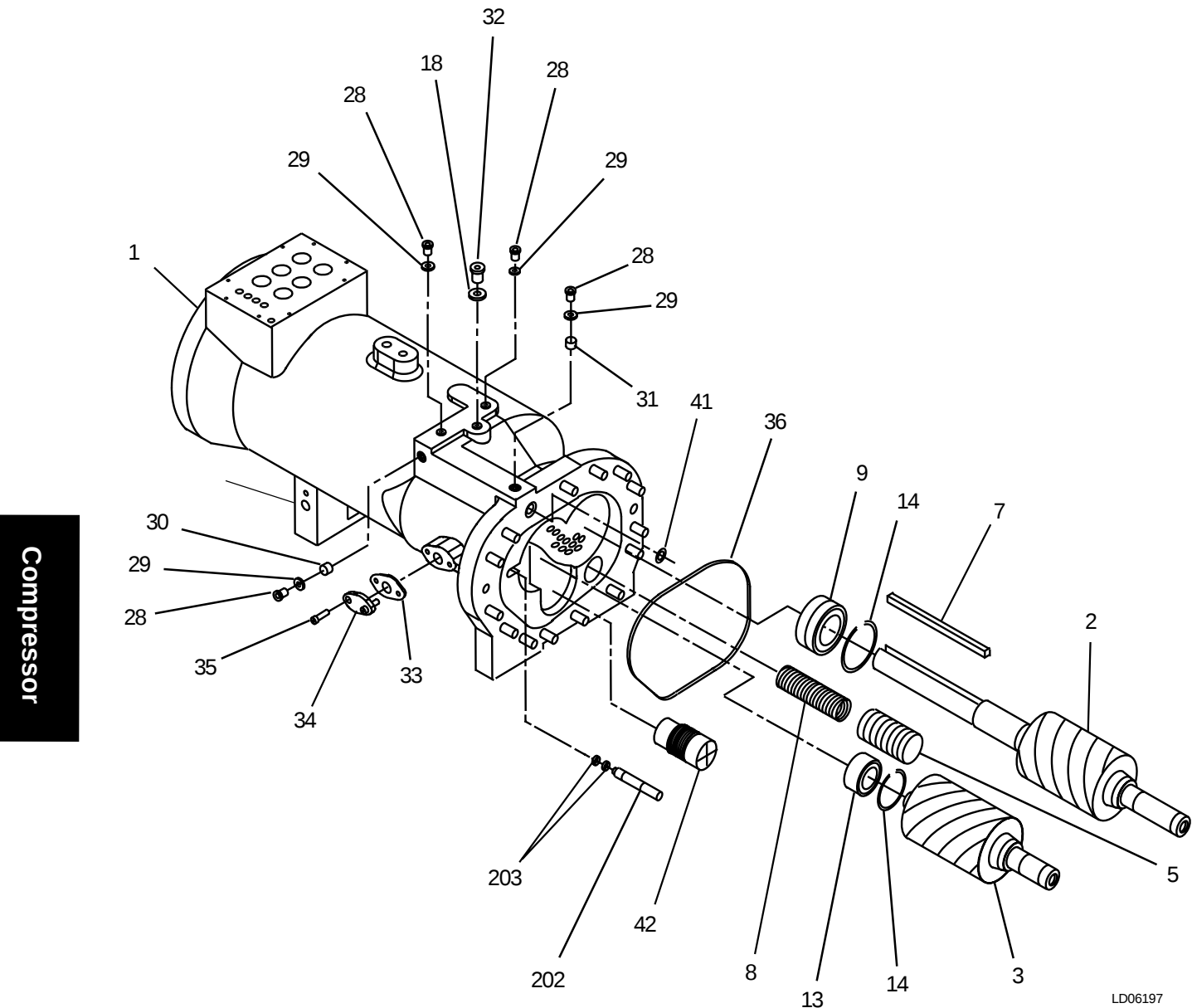


FIG. 13 – COMPRESSOR PARTIAL EXPLODED VIEW (REF. TABLE 12, PAGE 25)

**PART OF FOLDOUT**

**Compressor**

## PART OF FOLDOUT

## COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

**TABLE 13 – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)**

| ITEM NO. | PART DESCRIPTION                       | PART NUMBER   |
|----------|----------------------------------------|---------------|
| 1        | CASE, ROTOR/MOTOR                      | 064-49122-000 |
| 4        | COVER, SUCTION                         | 064-49437-000 |
| 6        | WASHER, CLAMP                          | 064-49439-000 |
| 10       | ROTOR, MOTOR                           | 024-30912-000 |
| 11       | WASHER, LOCK - M10                     | 021-19364-000 |
| 12       | SCREW, SOCKET HD. CAP - M10 x 40mm LG. | 021-19363-000 |
| 13       | BEARING, RADIAL                        | 029-22735-000 |
| 15       | PLUG - HOLLOW HEX 1-7/8"               | 023-18926-000 |
| 16       | O-RING 3-924                           | 028-13865-000 |
| 17       | PIN, STATOR LOCKING                    | 064-49129-000 |
| 18       | O-RING 3 - 908                         | 028-13856-000 |
| 19       | INSULATOR, BOTTOM                      | 025-33200-000 |
| 20       | INSULATOR, TOP                         | 025-33201-000 |
| 21       | THERMISTOR, 7/16" - 20UNF - 2A         | 025-33202-000 |
| 22       | BOLT, TERMINAL                         | 021-19104-000 |
| 23       | NUT, HEAVY HEX - 7/16" - 20UNF         | 021-19102-000 |
| 24       | WASHER, LOCK - 7/16"                   | 021-19619-000 |
| 25       | WASHER, TERMINAL                       | 021-19117-000 |
| 26       | SEAL, TERMINAL                         | 028-13946-000 |
| 27       | SCREW, SOCKET HD. CAP - M12 x 55mm LG. | 021-19614-000 |
| 28       | PLUG - HOLLOW HEX 9/16"                | 023-18922-000 |
| 29       | O-RING 3 - 906                         | 028-13855-000 |
| 30       | PLUG - 0.032 ORIFICE                   | 029-22716-000 |
| 32       | PLUG, HOLLOW HEX - 3/4"                | 023-18923-000 |
| 36       | O-RING 2 - 273                         | 028-13950-000 |
| 37       | GASKET, 3                              | 028-13863-000 |
| 38       | PLATE, VALVE COVER                     | 064-49008-000 |
| 39       | SCREW, SOCKET HD. CAP - M16 x 30mm LG. | 021-19118-000 |
| 40       | STRAINER, SUCTION                      | 026-35623-000 |
| 43       | CASE, DISCHARGE                        | 064-49124-000 |
| 44       | BEARING, THRUST - 7306                 | 029-22906-000 |
| 45       | BEARING, REVERSE THRUST - 6306         | 029-22907-000 |
| 46       | SHIM, REVERSE THRUST SPACER (0.040)    | 029-22909-000 |
| 47       | SHIM, SPACER (0.007)                   | 029-22910-000 |
| 48       | NUT, BEARING CLAMP                     | 021-19362-000 |
| 49       | SEAL, LIP                              | 028-13949-000 |
| 50       | ELEMENT, OIL FILTER                    | 026-35601-000 |
| 51       | COVER, DISCHARGE                       | 064-49123-000 |

## COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

**TABLE 13 (CONT'D) – COMPRESSOR ASSEMBLY (SEE FIGS. 14 AND 15, PAGES 27, 27A, 27B AND 28)**

| ITEM NO. | PART DESCRIPTION                       | PART NUMBER   |
|----------|----------------------------------------|---------------|
| 52       | COVER, OIL FILTER                      | 064-49003-000 |
| 53       | VALVE, ACCESS - 7/16"                  | 022-09715-000 |
| 54       | SCREW, SOCKET HD. CAP - M8 x 30mm LG.  | 021-19115-000 |
| 55       | SCREW, SOCKET HD. CAP - M8 x 35mm LG.  | 021-19617-000 |
| 56       | SCREW, SOCKET HD. CAP - M8 x 80mm LG.  | 021-19616-000 |
| 57       | VALVE, OIL CONTROL                     | 022-09710-000 |
| 58       | O-RING 2 - 023                         | 028-13859-000 |
| 59       | PLUG, OIL RETURN VALVE                 | 064-49135-000 |
| 60       | O-RING 3 - 916                         | 028-13857-000 |
| 61       | VALVE, CAPACITY CONTROL                | 025-33205-000 |
| 62       | PLUG - HOLLOW HEX 7/16"                | 023-18921-000 |
| 63       | O-RING 3 - 904                         | 028-13854-000 |
| 64       | SLEEVE, M.R. SPACER BEARING            | 064-49511-000 |
| 65       | SLEEVE, F.R. SPACER BEARING            | 064-49512-000 |
| 66       | O-RING 2 - 148                         | 028-13947-000 |
| 67       | PIN, DOWEL - 12mm x 40mm LG. (SPECIAL) | 029-22712-000 |
| 68       | PIN, DOWEL - 12mm x 40mm LG.           | 029-22713-000 |
| 69       | O-RING 2 - 152                         | 028-13849-000 |
| 70       | ORIFICE, MUFFLER                       | 064-49515-000 |
| 71       | SPACER, MUFFLER                        | 064-49514-000 |
| 72       | BUTTON, CHECK VALVE                    | 064-49507-000 |
| 73       | O-RING 2 - 155                         | 028-13962-000 |
| 74       | SPRING, MUFFLER PRELOAD                | 029-22912-000 |
| 75       | GASKET 1-1/2"                          | 028-13862-000 |
| 76       | PLATE, VALVE COVER                     | 064-49010-000 |
| 77       | SCREW, SOCKET HD. CAP - M12 x 30mm LG. | 021-19119-000 |
| 78       | PLATE, DATA                            | 029-22722-000 |
| 79       | SPRING, BEARING PRELOAD                | 029-22913-000 |
| 201      | STATOR, MOTOR - 17                     | 024-30911-002 |
|          | - 28                                   | 024-30911-003 |
|          | - 40                                   | 024-30911-004 |
|          | - 46                                   | 024-30911-005 |
|          | - 58                                   | 024-30911-006 |

**TABLE 14 – COMPRESSOR OIL AND FILTER COMPONENTS  
(SEE FIG. 15, PAGES 27B AND 28)**

| ITEM NO.         | QTY PER<br>COMP | DESCRIPTION     | MODEL<br>YCAS0090 - YCAS0120 |
|------------------|-----------------|-----------------|------------------------------|
| 50 <sup>S</sup>  | 1               | FILTER, OIL     | 026-35601-000                |
| 69 <sup>S</sup>  | 1               | O-RING          | 028-13849-000                |
| OIL <sup>S</sup> | 5 GAL           | OIL, TYPE L POE | 011-00592-000                |

<sup>S</sup>Recommended Spare Part

## COMPRESSOR COMPONENTS / RELATED PARTS (CONT'D)

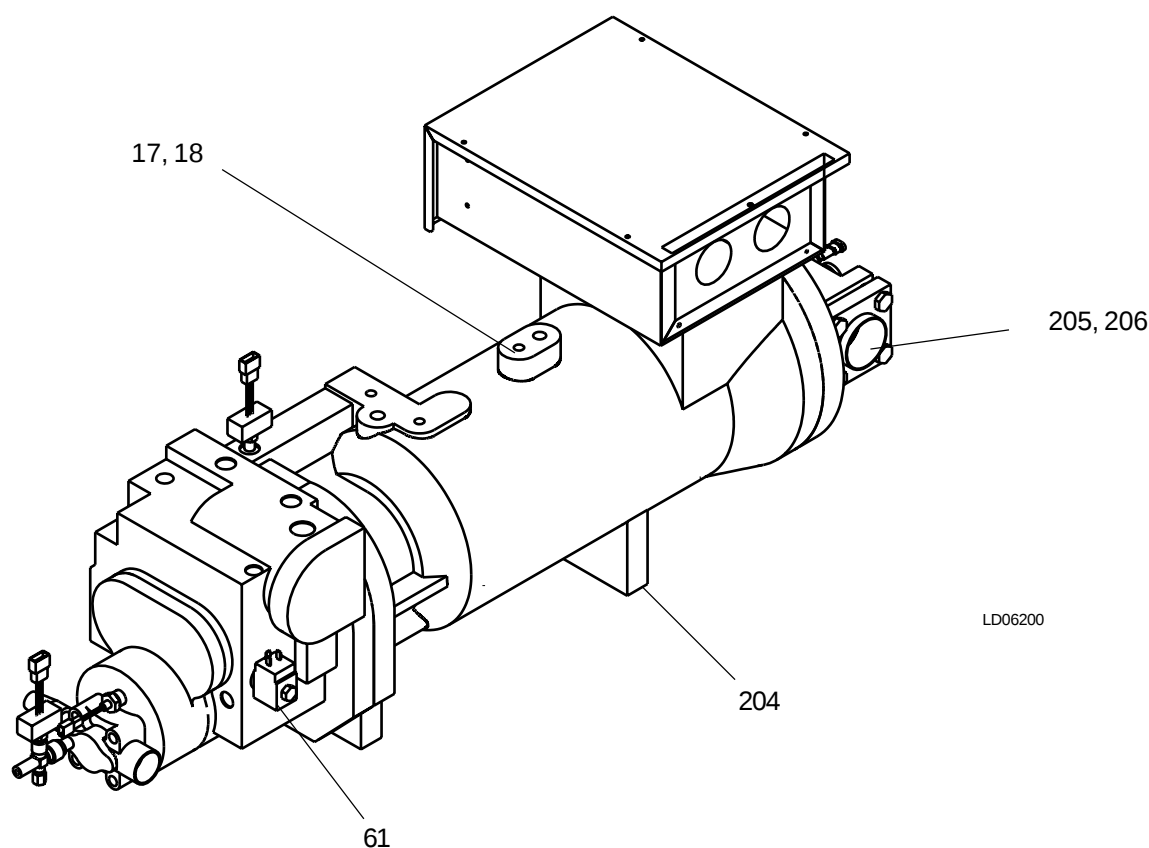
**TABLE 15 – COMPRESSOR AND CONTROL COMPONENTS (SEE FIG. 16)**

| ITEM NUMBER     | QUANTITY | SYSTEM | DESCRIPTION               | VOLTAGE CODE | PART NUMBER   |
|-----------------|----------|--------|---------------------------|--------------|---------------|
| 17              | 2        | 1, 2   | Lock Pin, Stator, EC 1099 | ALL          | 064-49129-000 |
| 18              | 2        | 1, 2   | O-ring, Lock Pin          | ALL          | 028-13856-000 |
| 61 <sup>s</sup> | 2        | 1, 2   | Valve, Capacity Control   | ALL          | 025-33205-000 |
| 204             | 2        | 1, 2   | Heater, Compressor 124    | 120V         | 025-32938-000 |
|                 |          |        | Heater, Compressor 112    | 120V         | 025-34511-000 |

<sup>s</sup> Recommended Spare Part

**TABLE 16 – COMPRESSOR STOP VALVES AND GASKETS (SEE FIG. 16)**

| ITEM NO. | DESCRIPTION         | APPLICATION                            | PART NUMBER   |
|----------|---------------------|----------------------------------------|---------------|
| 205      | Stop Valve, 1-3/8   | 112mm discharge; 124mm Economizer Port | 022-03727-003 |
| 206      | Gasket, 1-3/8 Valve |                                        | 028-13972-000 |
| 205      | Stop Valve, 2-1/8   | 124mm discharge                        | 022-01393-001 |
| 206      | Gasket, 2-1/8       |                                        | 028-13971-000 |
| 205      | Stop Valve, 2-5/8   | 112mm and 124mm suction                | 022-09777-001 |
| 206      | Gasket, 2-5/8 Valve |                                        | 028-13973-000 |



**FIG. 16 – COMPRESSOR AND CONTROL COMPONENTS (REF. TABLES 15 AND 16)**

## MICRO PANEL COMPONENTS

**TABLE 17– MICRO PANEL COMPONENTS (SEE FIGS.17 AND 18, PAGES 33, 33A, 33B AND 34)**

| ITEM NO.  | QUANTITY | DESCRIPTION                  | PART NO.      | NOTE                                |
|-----------|----------|------------------------------|---------------|-------------------------------------|
| <b>1</b>  | 1        | Door for Micro-Compartment   | RAM-202310    | 2-Piece Bolted Control/Option Panel |
|           | 1        | Door for Options Compartment | RAM-202311    |                                     |
| <b>1</b>  | 1        | Door for Micro-Compartment   | N/A           | 1-Piece Control/Option Panel        |
|           | 1        | Door for Options Compartment | N/A           |                                     |
| <b>2</b>  | 1        | MicroBoard                   | 031-01095-002 |                                     |
| <b>3</b>  | 1        | Power Supply Board           | 031-01094-000 |                                     |
| <b>4</b>  | 2        | Relay Circuit Board          | 031-01093-000 |                                     |
| <b>5</b>  | 1        | Transformer, Control 2T      | 025-27911-000 |                                     |
| <b>6</b>  | 1        | Kit, Terminal Block          | 025-33760-000 |                                     |
| <b>7</b>  | 1        | Kit, Terminal Block          | 025-33761-000 |                                     |
| <b>8</b>  | 2        | Catch, Magnetic (Not Shown)  | 029-20878-000 |                                     |
| <b>10</b> | 1        | Tag, Identification          | 035-15183-000 |                                     |
| <b>15</b> | 3        | Circuit Breaker, 6A          | 024-30913-000 |                                     |
| <b>17</b> | 2        | Strap, Cable                 | 025-18167-000 |                                     |
| <b>18</b> | 1        | Transformer, Control 3T      | 025-18452-000 |                                     |
| <b>22</b> | 2        | Switch, On/Off               | 024-25517-000 |                                     |
| <b>23</b> | 1        | Display                      | 031-01110-000 |                                     |
| <b>24</b> | 1        | Ribbon Cable                 | 071-02253-251 |                                     |
| <b>25</b> | 4        | Ribbon Cable                 | 071-02253-252 |                                     |
| <b>26</b> | 1        | Ribbon Cable                 | 071-02253-253 |                                     |
| <b>27</b> | 3        | Clamp, Ribbon Wire           | 025-25156-000 |                                     |
| <b>28</b> | 1        | Transformer, Control 4T      | 025-30889-000 |                                     |
| <b>29</b> | 4        | Spacer, Nylon                | 021-17575-000 |                                     |
| <b>30</b> | 1        | Harness, Hinged Panel        | 571-01226-211 |                                     |
| <b>31</b> | 1        | Harness, Main Panel          | 571-02253-201 |                                     |
| <b>32</b> | 1        | Connector, Cable Strap       | 025-08301-000 |                                     |
| <b>33</b> | 1        | Relay, Control               | 024-25598-000 |                                     |
| <b>34</b> | 1        | EPROM                        | 031-01798-001 |                                     |
| <b>35</b> | 1        | Label, Caution               | 035-15989-000 |                                     |
| <b>36</b> | 1        | Label, Warning               | 035-11929-000 |                                     |
| <b>37</b> | 2        | Connector, Cable Strap       | 025-12282-000 |                                     |
| <b>38</b> | 1        | I/O Expansion Board          | 031-01781-000 |                                     |
| <b>39</b> | 1        | Ribbon Cable                 | 071-02253-254 |                                     |
| <b>40</b> | Varies   | Plug, 9 Pin                  | 025-28383-000 | See Pages 33, 33A, 33B and 34       |
| <b>41</b> | Varies   | Plug, 12 Pin                 | 025-28384-000 | See Pages 33, 33A, 33B and 34       |

## PART OF FOLDOUT

## PART OF FOLDOUT

## SENSOR HARNESS

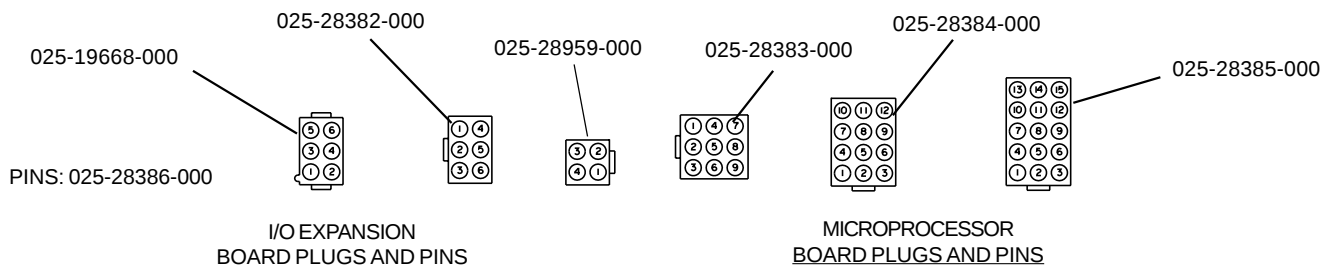
### CHILLER MODELS YCAS0090 AND YCAS0100

**TABLE 18 – SENSOR HARNESS WIRING (SEE FIGS. 19, 20 AND 21, PAGES 35, 36 AND 37)**

| BOARD LOCATION | CABLE NO. | WIRE COLOR | PLUG PIN NO. | FUNCTION                      | HARNESS ASSY  |
|----------------|-----------|------------|--------------|-------------------------------|---------------|
| MICRO P13      | 1         | RED        | 4            | SYS #1<br>SUCTION<br>PRESSURE | 375-33776-401 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 2         | RED        | 5            | SYS #1<br>OIL<br>PRESSURE     | 375-33776-403 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P14      | 3         | RED        | 4            | SYS #2<br>SUCTION<br>PRESSURE | 375-33776-402 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 4         | RED        | 5            | SYS #2<br>OIL<br>PRESSURE     | 375-33776-404 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P11      | 5         | RED        | 7            | LEAVING CHILLED<br>WATER      | 375-33776-415 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                | 6         | RED        | 8            | ENTERING CHILLED<br>WATER     | 375-33776-416 |
|                |           | BLK        | 5            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| MICRO P15      | 8         | RED        | 9            | OUTSIDE AIR TEMP.             | 375-33776-417 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                |           | RED        | 5            |                               |               |
|                | 9         | BLK        | 3            | SYS #1<br>DISCH.<br>PRESSURE  | 375-33776-405 |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
|                |           | RED        | 4            |                               |               |
| MICRO P16      | 10        | BLK        | 1            | SYS #2<br>DISCH.<br>PRESSURE  | 375-33776-406 |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                |           | RED        | 5            |                               |               |
|                | 11        | BLK        | 4            | SYS #1<br>SUCTION TEMP.       | 375-33776-411 |
|                |           | DRAIN      | 3            |                               |               |
|                |           | RED        | 2            |                               |               |
|                |           | BLK        | 6            |                               |               |
| I/O P10        | 16        | RED        | 4            | SYS #2<br>SUCTION TEMP.       | 375-33776-412 |
|                |           | BLK        | 7            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                |           | RED        | 5            | SYS #1<br>OIL TEMP.           | 375-33776-421 |
|                | 17        | BLK        | 6            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| I/O P8         | 12        | RED        | 2            | SYS #2<br>OIL TEMP.           | 375-33776-422 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                |           | RED        | 5            | SYS #1<br>DISCH. TEMP.        | 375-33776-413 |
|                | 13        | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| I/O P2         | 31        | RED (47)   | 1            | SYS #2<br>DISCH. TEMP.        | 375-33776-414 |
|                |           | BLK (48)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
|                |           | RED (49)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-423 |
| I/O P12        | 32        | BLK (50)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
|                |           | RED (49)   | 1            |                               |               |
|                |           | BLK (50)   | 2            | SYS #1<br>SLIDE VALVE         | 375-33776-424 |
|                |           | DRAIN      | 6            |                               |               |
|                |           | RED (49)   | 1            |                               |               |
|                |           | BLK (50)   | 2            |                               |               |

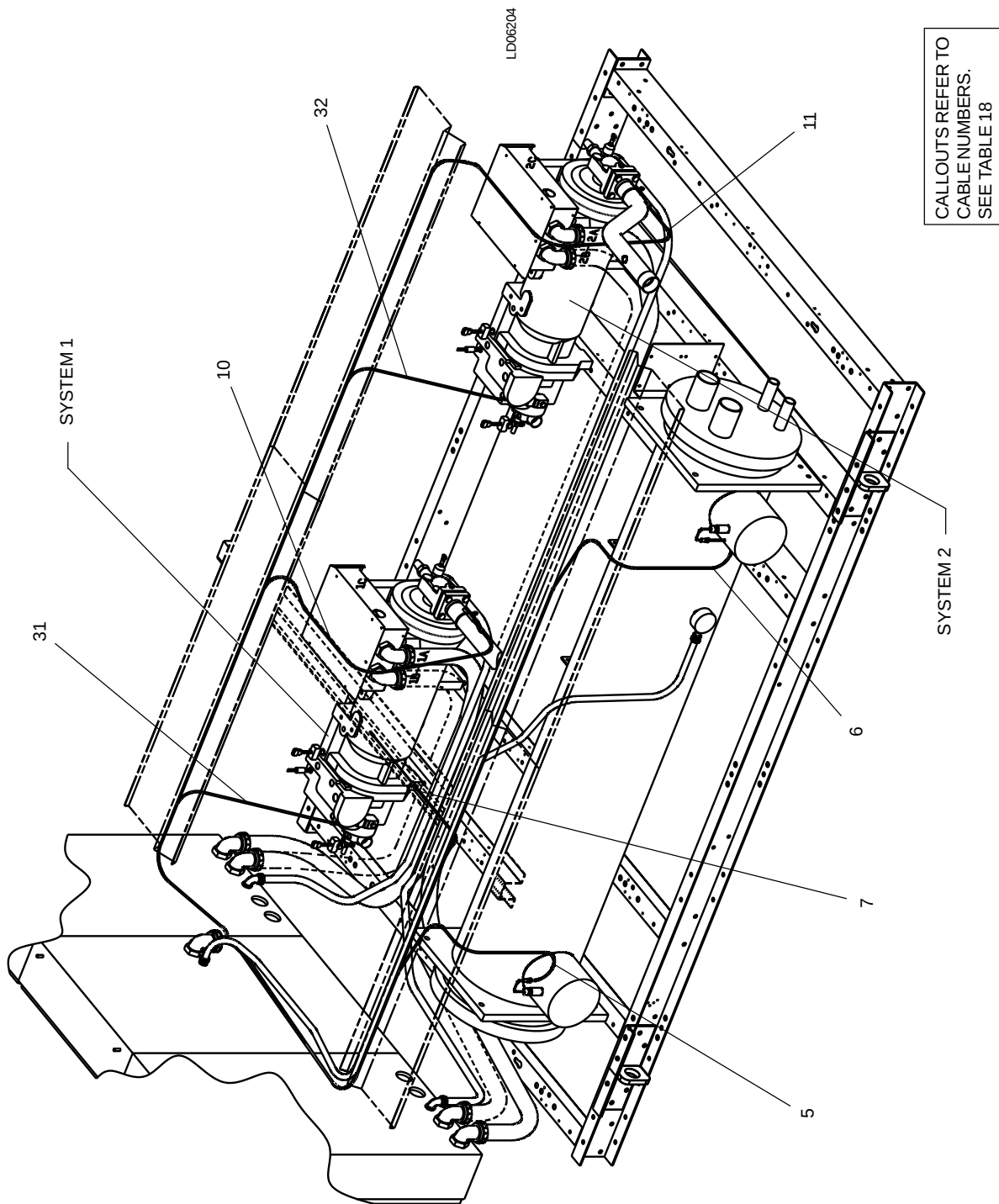
**Note:**

Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)

**FIG. 19 – SENSOR HARNESS PLUGS AND PINS**

LD06203

# **SENSOR HARNESS (CONT'D)** **CHILLER MODELS YCAS0090 AND YCAS0100**



**FIG. 20 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)**

SENSOR HARNESS (CONT'D)  
CHILLER MODELS YCAS0090 AND YCAS0100

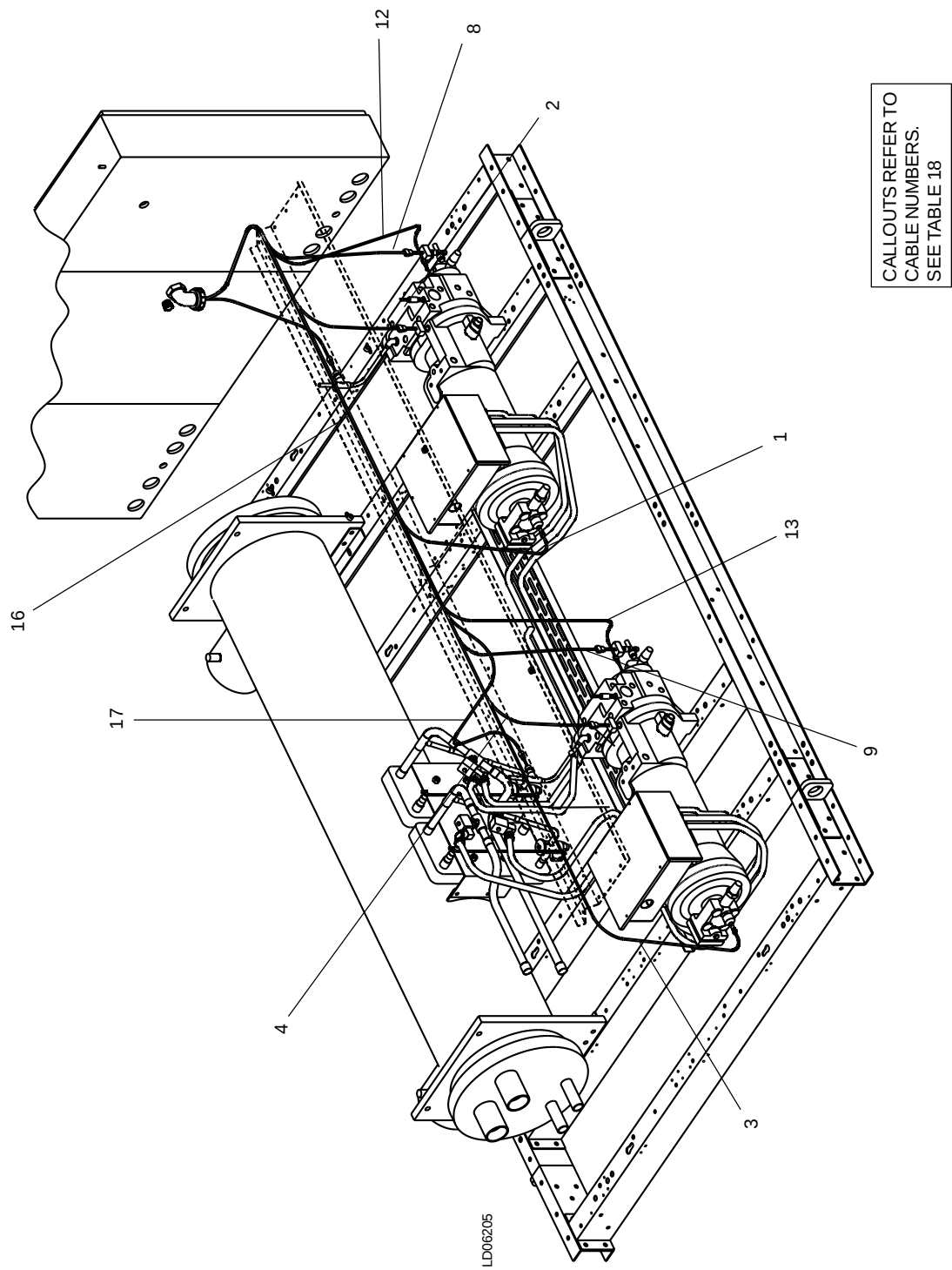


FIG. 21 – HARNESS LAYOUT (REF. TABLE 18, PAGE 35)

Micro Panel

## SENSOR HARNESS (CONT'D)

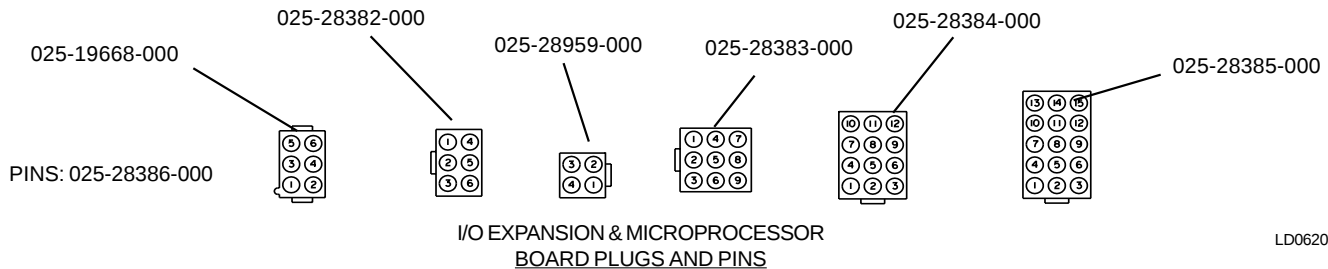
### CHILLER MODELS YCAS0110 AND YCAS0120

**TABLE 19 – SENSOR HARNESS WIRING (SEE FIGS. 22, 23 AND 24, PAGES 38, 39 AND 40)**

| BOARD LOCATION | CABLE NO. | WIRE COLOR | PLUG PIN NO. | FUNCTION                      | HARNESS ASSY  |
|----------------|-----------|------------|--------------|-------------------------------|---------------|
| MICRO P13      | 1         | RED        | 4            | SYS #1<br>SUCTION<br>PRESSURE | 375-33776-401 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                | 2         | DRAIN      | 2            | SYS #1<br>OIL<br>PRESSURE     | 375-33776-403 |
|                |           | RED        | 5            |                               |               |
|                |           | BLK        | 3            |                               |               |
| MICRO P14      | 3         | WHT        | 8            | SYS #2<br>SUCTION<br>PRESSURE | 375-33776-402 |
|                |           | DRAIN      | 9            |                               |               |
|                |           | RED        | 4            |                               |               |
|                | 4         | BLK        | 1            | SYS #2<br>OIL<br>PRESSURE     | 375-33776-404 |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| MICRO P11      | 5         | RED        | 5            | LEAVING CHILLED<br>WATER      | 375-33776-415 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                | 6         | RED        | 8            | ENTERING CHILLED<br>WATER     | 375-33776-416 |
|                |           | BLK        | 5            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| MICRO P15      | 8         | RED        | 9            | OUTSIDE AIR TEMP.             | 375-33776-417 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 9         | RED        | 5            | SYS #1<br>DISCH.<br>PRESSURE  | 375-33776-405 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
| MICRO P16      | 10        | DRAIN      | 9            | SYS #2<br>DISCH.<br>PRESSURE  | 375-33776-406 |
|                |           | RED        | 4            |                               |               |
|                |           | BLK        | 1            |                               |               |
|                | 11        | RED        | 2            | SYS #1<br>SUCTION TEMP.       | 375-33776-411 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
| I/O P10        | 16        | RED        | 2            | SYS #2<br>SUCTION TEMP.       | 375-33776-412 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 17        | RED        | 4            | SYS #1<br>OIL TEMP.           | 375-33776-421 |
|                |           | BLK        | 7            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| I/O P8         | 12        | RED        | 5            | SYS #2<br>OIL TEMP.           | 375-33776-422 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 13        | RED        | 2            | SYS #1<br>DISCH. TEMP.        | 375-33776-413 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
| I/O P2         | 31        | RED        | 5            | SYS #2<br>DISCH. TEMP.        | 375-33776-414 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 32        | RED (47)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-423 |
|                |           | BLK (48)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
| I/O P12        | 32        | RED (49)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-424 |
|                |           | BLK (50)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |

**Note:**

Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



LD06206

**FIG. 22 – SENSOR HARNESS PLUGS AND PINS**

SENSOR HARNESS (CONT'D)  
CHILLER MODELS YCAS0110 AND YCAS0120

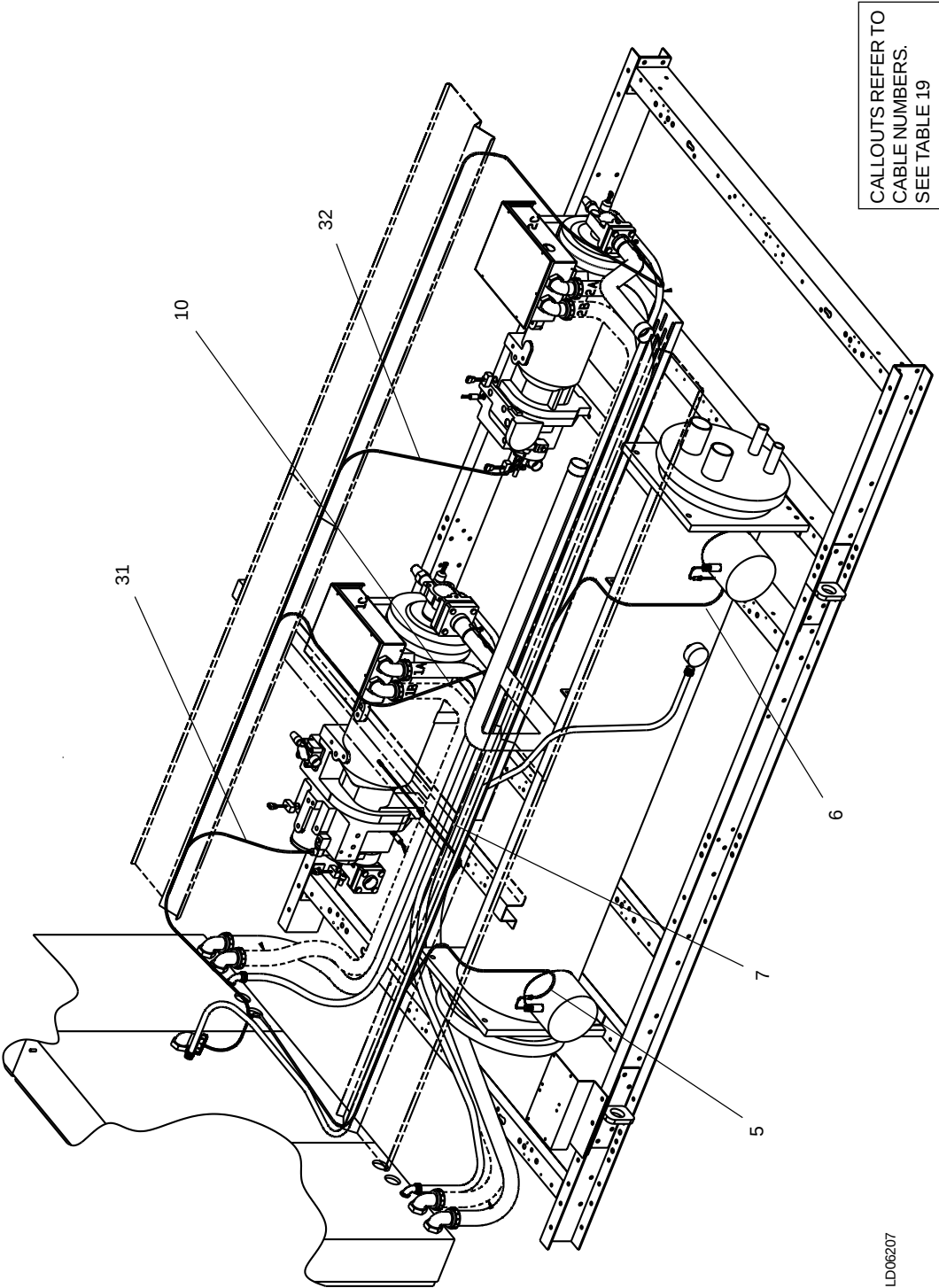
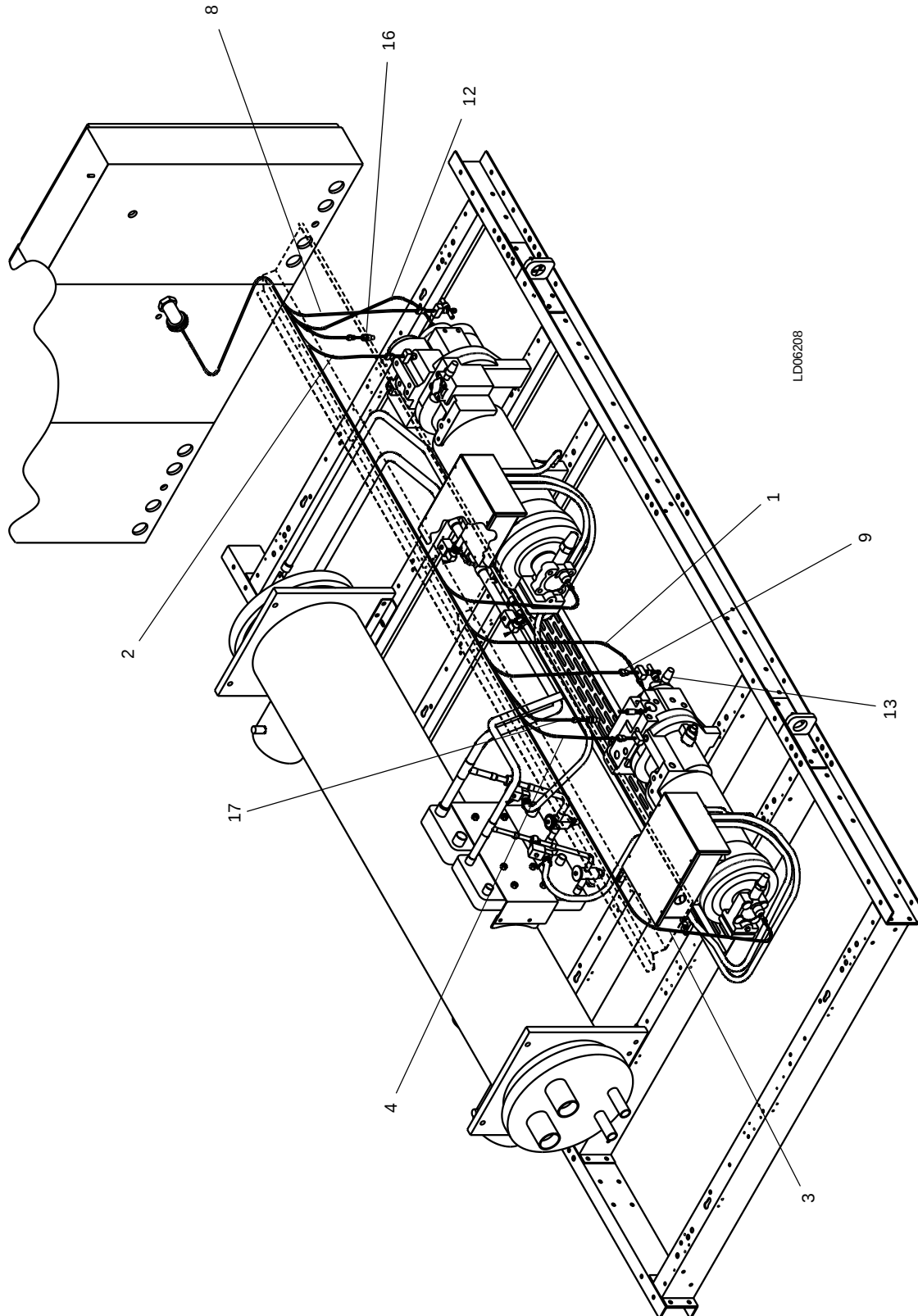


FIG. 23 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)

Micro Panel

# **SENSOR HARNESS (CONT'D)** **CHILLER MODELS YCAS0110 AND YCAS0120**



**FIG. 24 – HARNESS LAYOUT (REF. TABLE 19, PAGE 38)**

## SENSOR HARNESS - REMOTE COOLER

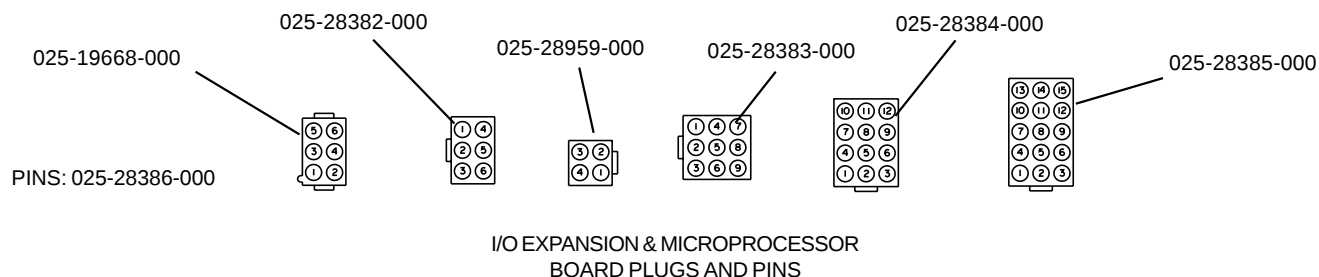
### CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120

**TABLE 20 – SENSOR WIRING (SEE FIGS. 25, 26 AND 27, PAGES 41, 42 AND 43)**

| BOARD LOCATION | CABLE NO. | WIRE COLOR | PLUG PIN NO. | FUNCTION                      | HARNESS ASSY  |
|----------------|-----------|------------|--------------|-------------------------------|---------------|
| MICRO P13      | 1         | RED        | 4            | SYS #1<br>SUCTION<br>PRESSURE | 375-33776-401 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 2         | RED        | 5            | SYS #1<br>OIL<br>PRESSURE     | 375-33776-403 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P14      | 3         | RED        | 4            | SYS #2<br>SUCTION<br>PRESSURE | 375-33776-402 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
|                | 4         | RED        | 5            | SYS #2<br>OIL<br>PRESSURE     | 375-33776-404 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
| MICRO P11      | 7         | RED        | 9            | OUTSIDE AIR TEMP.             | 375-33776-417 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| MICRO P15      | 8         | RED        | 5            | SYS #1<br>DISCH.<br>PRESSURE  | 375-33776-405 |
|                |           | BLK        | 3            |                               |               |
|                |           | WHT        | 8            |                               |               |
|                |           | DRAIN      | 9            |                               |               |
|                | 9         | RED        | 4            | SYS #2<br>DISCH.<br>PRESSURE  | 375-33776-406 |
|                |           | BLK        | 1            |                               |               |
|                |           | WHT        | 7            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| I/O P10        | 16        | RED        | 4            | SYS #1<br>OIL TEMP.           | 375-33776-411 |
|                |           | BLK        | 7            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
|                | 17        | RED        | 5            | SYS #2<br>OIL TEMP.           | 375-33776-412 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 2            |                               |               |
| I/O P8         | 12        | RED        | 2            | SYS #1<br>DISCH. TEMP.        | 375-33776-413 |
|                |           | BLK        | 4            |                               |               |
|                |           | DRAIN      | 1            |                               |               |
|                | 13        | RED        | 5            | SYS #2<br>DISCH. TEMP.        | 375-33776-414 |
|                |           | BLK        | 6            |                               |               |
|                |           | DRAIN      | 3            |                               |               |
| I/O P2         | 31        | RED (47)   | 1            | SYS #1<br>SLIDE VALVE         | 375-33776-423 |
|                |           | BLK (48)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |
| I/O P12        | 32        | RED (49)   | 1            | SYS #2<br>SLIDE VALVE         | 375-33776-424 |
|                |           | BLK (50)   | 2            |                               |               |
|                |           | DRAIN      | 6            |                               |               |

**Note:**

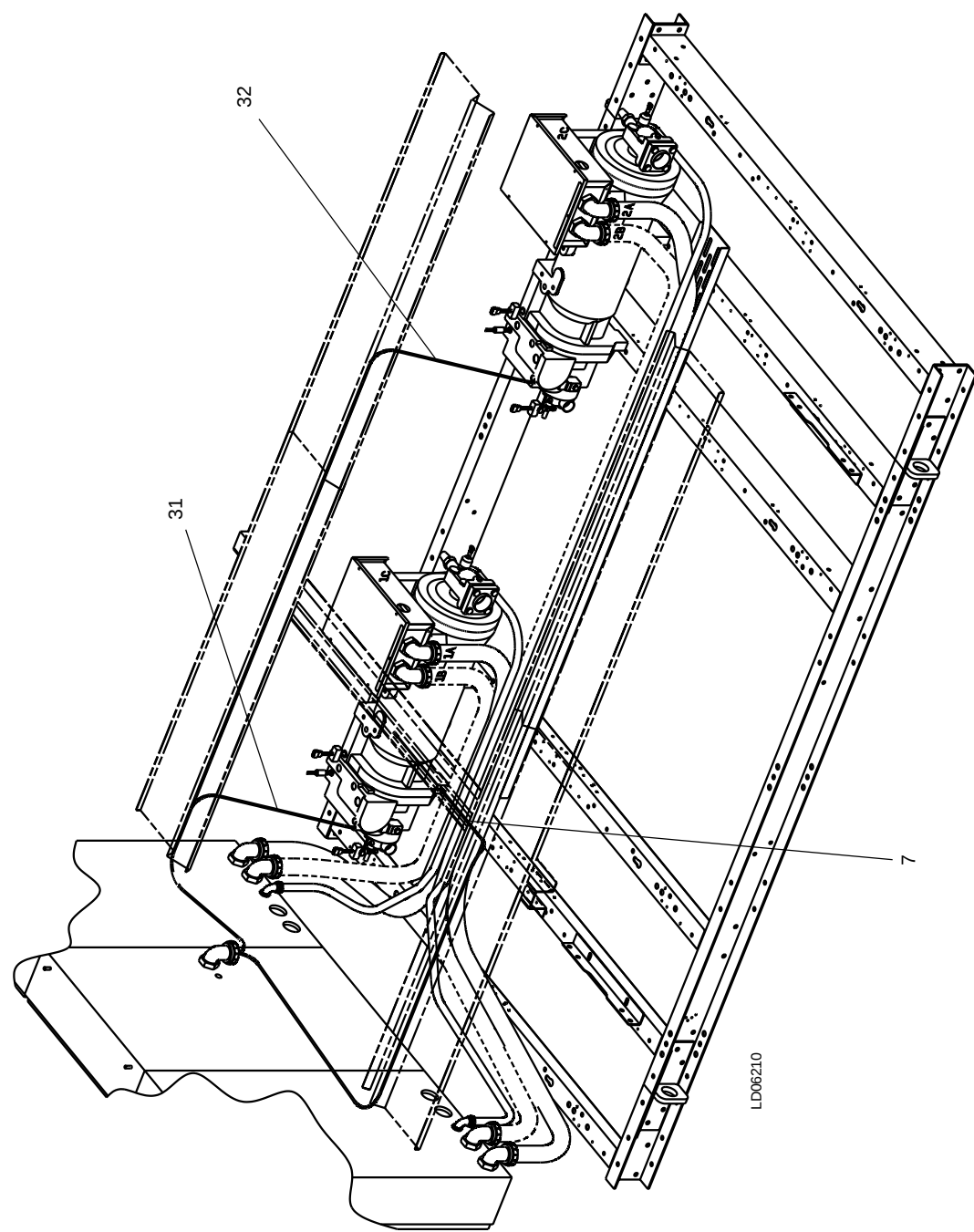
Harness comes with plug for sensor connection. Individual plug and sockets for Microboard and I/O board connections must be ordered separately when needed. (See below)



LD06209

**FIG. 25 – SENSOR HARNESS PLUGS AND PINS**

**SENSOR HARNESS - REMOTE COOLER (CONT'D)**  
**CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120**



CALLOUTS REFER TO  
CABLE NUMBERS.  
SEE TABLE 20

**FIG. 26 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)**

**SENSOR HARNESS - REMOTE COOLER (CONT'D)**  
**CHILLER MODELS YCAS0090, YCAS0100, YCAS0110 AND YCAS0120**

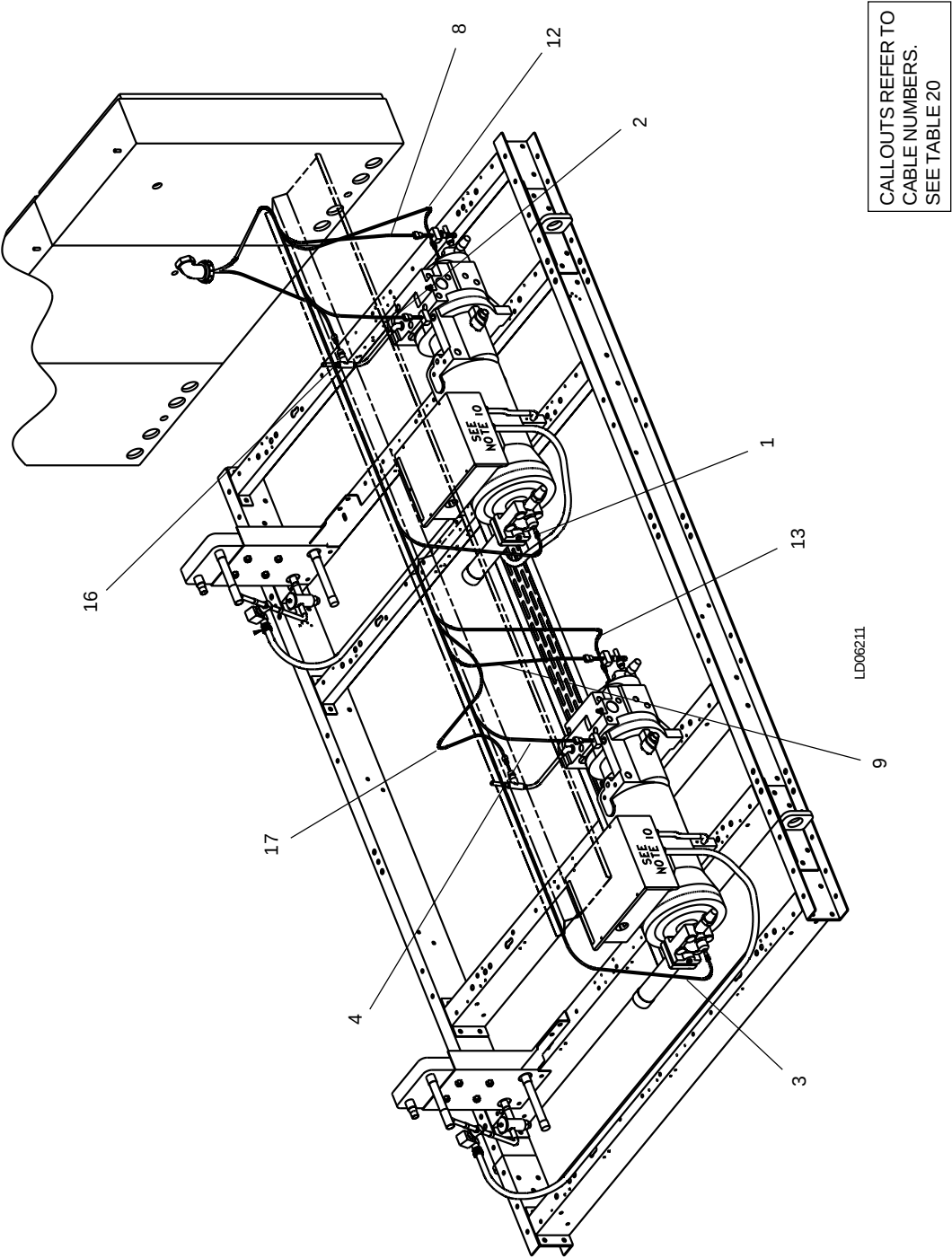


FIG. 27 – HARNESS LAYOUT (REF. TABLE 20, PAGE 41)

Micro Panel

## TRANSDUCERS AND TEMPERATURE SENSORS

**TABLE 21 – TRANSDUCERS AND TEMPERATURE SENSORS (SEE FIG. 28, PAGE 45)**

| ITEM NUMBER    | QUANTITY | SYSTEM | DESCRIPTION                                                      | VOLTAGE CODE | PART NUMBER   |
|----------------|----------|--------|------------------------------------------------------------------|--------------|---------------|
| 1 <sup>s</sup> | 1        | Unit   | Sensor, Outside Air (OAT)(Not Shown)                             | ALL          | 025-28663-001 |
| 2 <sup>s</sup> | 2        | Unit   | Sensor, Water Temp.                                              | ALL          | 025-29964-000 |
| 3 <sup>s</sup> | 2        | 1, 2   | Sensor, Oil Temp.                                                | ALL          | 025-30440-000 |
| 4 <sup>s</sup> | 2        | 1, 2   | Sensor, Disc. Temp.                                              | ALL          | 025-32924-000 |
| 5 <sup>s</sup> | 2        | 1, 2   | Sensor, Suction Temp.                                            | ALL          | 025-28935-000 |
| 6 <sup>s</sup> | 2        | 1, 2   | Switch, High Press. Cutout                                       | ALL          | 025-30480-000 |
| 7 <sup>s</sup> | 1        | 1, 2   | Transducer 0-200 PSI                                             | ALL          | 025-29583-000 |
| 8 <sup>s</sup> | 1        | 1, 2   | Transducer 0-400 PSI                                             | ALL          | 029-29139-001 |
| 9              | 1        | 1, 2   | Valve, Transducer<br>(Use with Items 7 & 8)<br>1/4 MPT x 1/4 FPT | ALL          | 022-09503-000 |
| 10             | 4        | 1, 2   | Valve, Charging (Oil, Refrig).<br>1/2 x 3/8 Flare (Not Shown)    | ALL          | 022-09754-000 |
| 11             | 2        | 1, 2   | Adaptor, Mounting<br>(Includes Item 12) (Use with Item 6)        | ALL          | 023-18087-000 |
| 12             | 4        | 1, 2   | O-Ring (Use with Item 11)                                        | ALL          | 028-13540-000 |
| 13             | 6        | 1, 2   | Bushing (Use with Items 7 and 8)                                 | ALL          | 023-18052-000 |
| 14             | 1        | Unit   | Compound, Heat Conductive<br>(Use with Item 2)                   | ALL          | 013-00898-000 |

<sup>s</sup> Recommended Spare Part

TRANSDUCERS AND TEMPERATURE SENSORS (CONT'D)

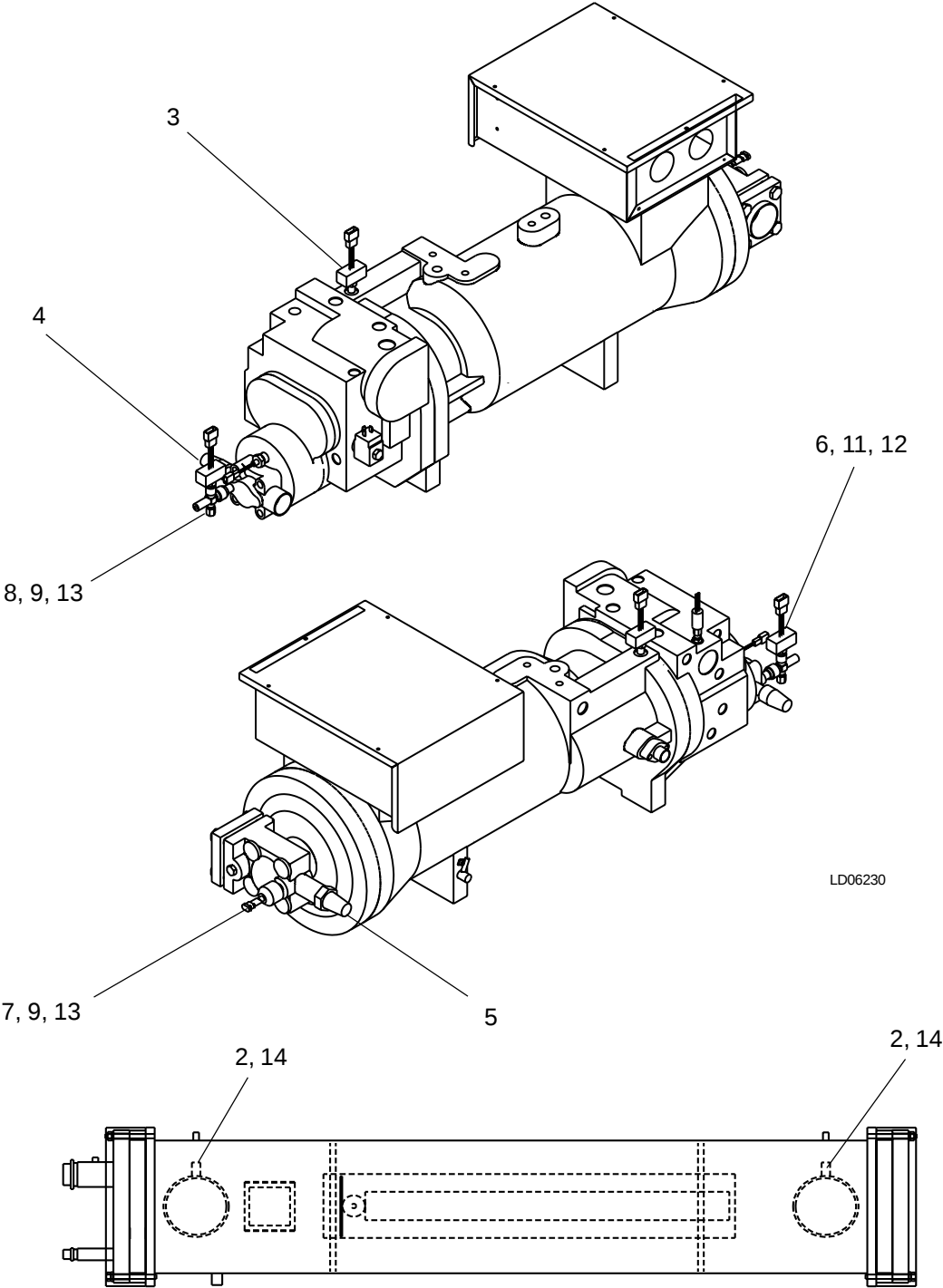


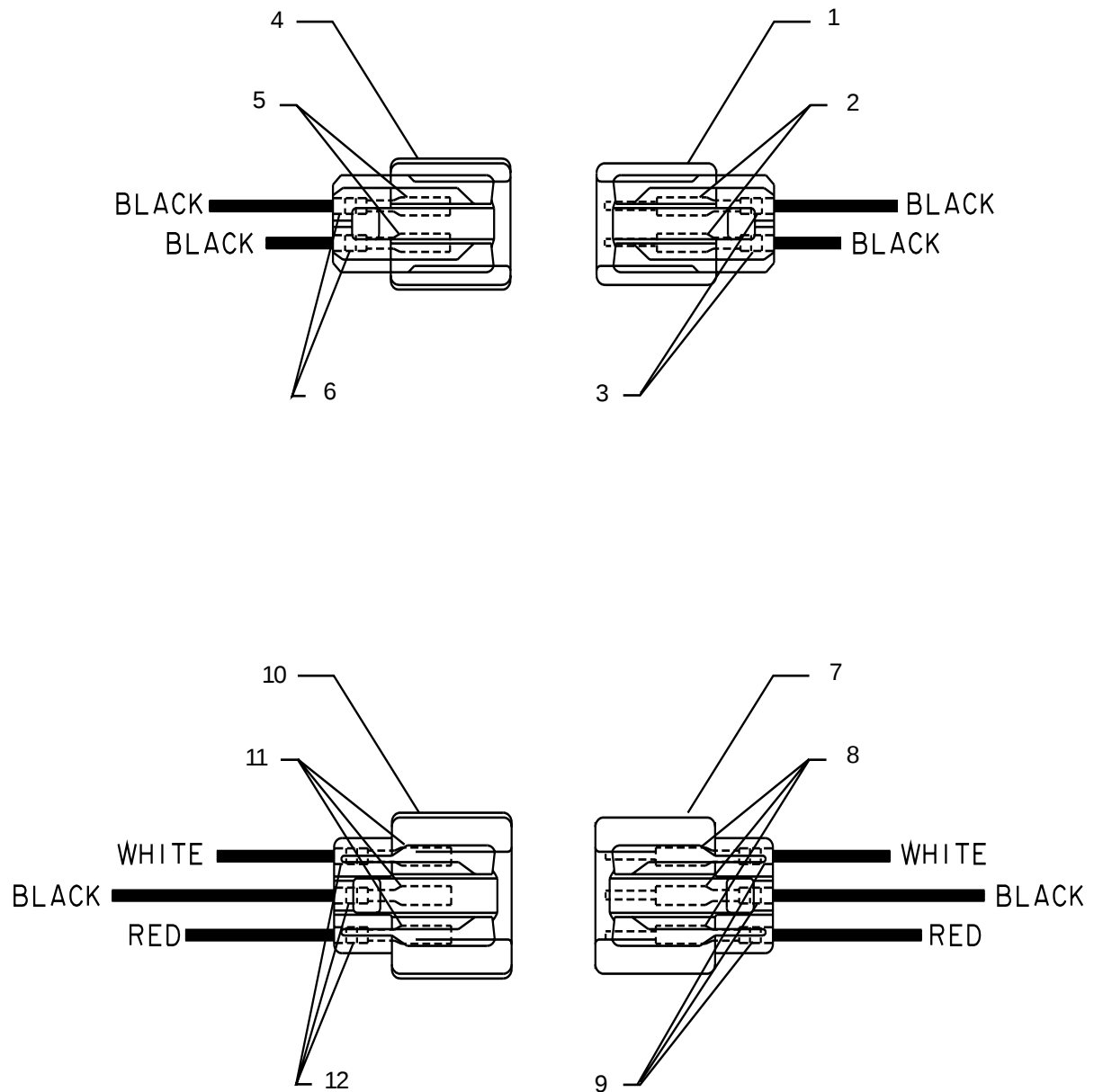
FIG. 28 – TRANSDUCERS AND TEMPERATURE SENSORS (REF. TABLE 21, PAGE 44)

## TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS – FIELD REPLACEMENT PART NUMBERS

**TABLE 22 – TRANSDUCER, TEMPERATURE SENSOR AND WIRE HARNESS  
CONNECTOR - FIELD REPLACEMENT PART NUMBERS - (SEE FIG. 29, PAGE 47)**

| ITEM NO. | TYPE         | DESCRIPTION    | PINS      | PART NUMBER   |
|----------|--------------|----------------|-----------|---------------|
| 1        | Transducer   | Plug Connector | 3 Pin End | 025-28953-000 |
| 2        |              | Contact Pins   |           | 025-28949-000 |
| 3        |              | Rubber Collar  |           | 025-28950-000 |
| 4        | Wire Harness | Plug Connector | 3 Pin End | 025-28954-000 |
| 5        |              | Contact Pins   |           | 025-28952-000 |
| 6        |              | Rubber Collar  |           | 025-28950-000 |
| 7        | Thermistor   | Plug Connector | 2 Pin End | 025-28948-000 |
| 8        |              | Contact Pins   |           | 025-28949-000 |
| 9        |              | Rubber Collar  |           | 025-28950-000 |
| 10       | Wire Harness | Plug Connector | 2 Pin End | 025-28951-000 |
| 11       |              | Contact Pins   |           | 025-28952-000 |
| 12       |              | Rubber Collar  |           | 025-28950-000 |

## TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS – FIELD REPLACEMENT PART NUMBERS (CONT'D)



LD06225

**FIG. 29 – TRANSDUCER, SENSOR AND WIRE HARNESS CONNECTORS - FIELD REPLACEMENT**  
(REF. TABLE 22, PAGE 46)

## POWER AND OPTION PANELS – 2-COMPRESSOR UNITS

### POWER PANEL AND OPTION PANEL COMPONENTS

Power panels and option panels are offered in several configurations using three (3) major components:

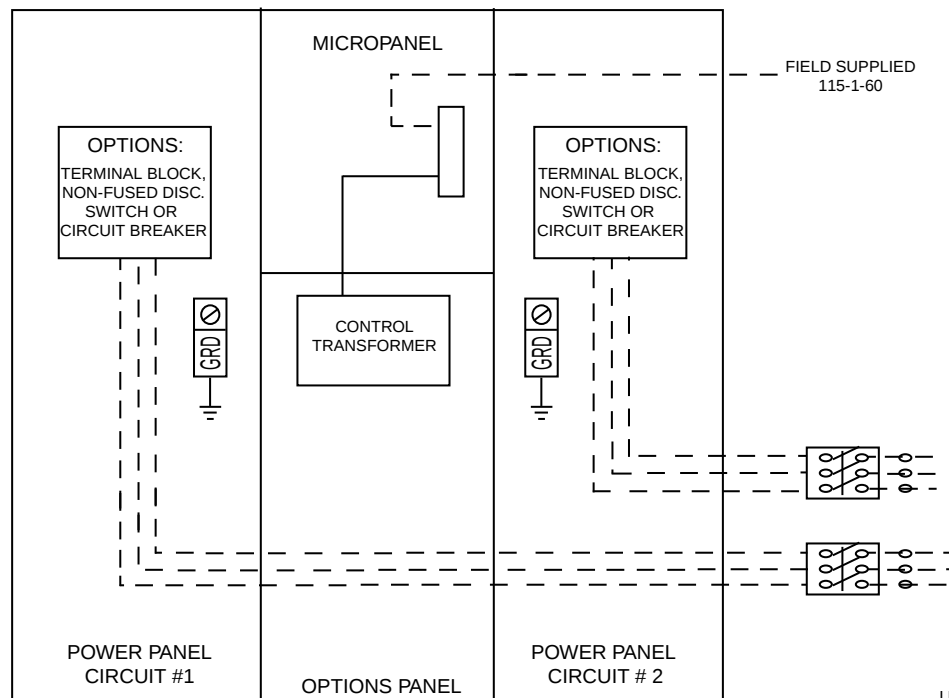
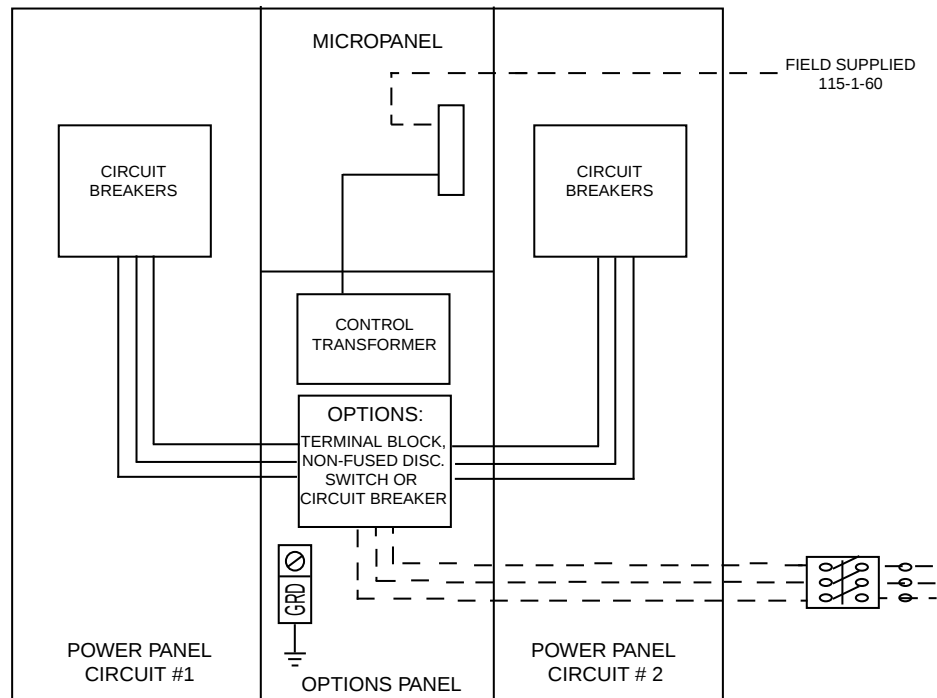
1. TERMINAL BLOCKS -
2. CIRCUIT BREAKER SWITCH -
3. NF (Non Fused) DISCONNECT SWITCH -

The most basic chiller power wiring configuration uses terminal blocks in the power panel, and an option panel with no power wire termination hardware. See figures below. The model number pin number locations 16 and 17 would be X and X to reflect this basic combination. Identify pin number locations 16 and 17 to identify the chiller power wiring connections and hardware listed below.

| PIN 16 & 17<br>LETTER CODE<br>IDENTIFIERS |   | POWER PANEL AND OPTION PANEL CONFIGURATION                                               |
|-------------------------------------------|---|------------------------------------------------------------------------------------------|
| X                                         | X | Terminal Blocks for each system in power panel; no options in option panel               |
| M                                         | D | NF disconnect switch for each system in power panel; no options in option panel          |
| M                                         | B | Circuit Breaker switch for each system in power panel; no options in option panel        |
| S                                         | X | Terminal Blocks for each system in power panel; SP terminal block in option panel        |
| S                                         | D | Terminal Blocks for each system in power panel; SP NF disc switch in option panel        |
| S                                         | B | Circuit Breaker switch for each system in power panel; SP terminal block in option panel |
| D                                         | B | Circuit Breaker switch for each system in power panel; SP NF disc switch in option panel |
| S                                         | S | NF disconnect switch for each system in power panel; SP terminal block in option panel   |
| C                                         | S | NF disconnect switch for each system in power panel; SP circuit breaker in option panel  |
| B                                         | X | Terminal Blocks for each system in power panel; SP circuit breaker in option panel       |

## POWER AND OPTION PANELS – 2-COMPRESSOR UNITS (CONT'D)

*Examples of power wiring configurations:*



LD06213

**FIG. 30 – EXAMPLES OF POWER WIRING CONFIGURATIONS (2-COMPRESSOR UNITS)**

## POWER PANEL COMPONENTS ACROSS-THE-LINE

**TABLE 23– POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)**

| ITEM NO.              | VOLTAGE                          | DESCRIPTION       | TYPE                                                              | SYSTEM 1       | SYSTEM 2      |
|-----------------------|----------------------------------|-------------------|-------------------------------------------------------------------|----------------|---------------|
| <b>1A, 1B</b>         | YCAS0090 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31643-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31638-000 |
|                       | - 40                             |                   |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 46                             |                   |                                                                   | 024-31603-000  | 024-31603-000 |
|                       | - 58                             |                   |                                                                   | 024-31640-000  | 024-31640-000 |
| <b>1A, 1B</b>         | YCAS0100 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31643-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31638-000 |
|                       | - 40                             |                   |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 46                             |                   |                                                                   | 024-31639-000  | 024-31639-000 |
|                       | - 58                             |                   |                                                                   | 024-31603-000  | 024-31603-000 |
| <b>1A, 1B</b>         | YCAS0110 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31644-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31643-000 |
|                       | - 40                             |                   |                                                                   | 024-31639-000  | 024-26577-000 |
|                       | - 46                             |                   |                                                                   | 024-31603-000  | 024-26577-000 |
|                       | - 58                             |                   |                                                                   | 024-31640-000  | 024-31639-000 |
| <b>1A, 1B</b>         | YCAS0120 - 17                    | Contactor         |                                                                   | 024-31643-000  | 024-31644-000 |
|                       | - 28                             |                   |                                                                   | 024-31638-000  | 024-31643-000 |
|                       | - 40                             |                   |                                                                   | 024-31639-000  | 024-31642-000 |
|                       | - 46                             |                   |                                                                   | 024-31603-000  | 024-26577-000 |
|                       | - 58                             |                   |                                                                   | 024-31640-000  | 024-31639-000 |
| <b>1C<sup>s</sup></b> |                                  | Surge Suppressor  |                                                                   | 031-00808-000  | 031-00808-000 |
| <b>1D</b>             |                                  | Mech. Interlock   | VE5-2                                                             | 024-31601-000  | 024-31601-000 |
|                       |                                  |                   | VH145                                                             | 024-31600-000  | 024-31600-000 |
|                       |                                  |                   | VH210A                                                            | 024-31637-000  | 024-31637-000 |
| <b>1E</b>             |                                  | Lugs, Contactor   |                                                                   | 025-34401-000  | 025-34401-000 |
| <b>2A</b>             |                                  | 120V Wire Harness |                                                                   | 071-02600-000  | 071-02600-000 |
| <b>2B</b>             |                                  | High V Power Wire | 4AWG BLK 600v<br>6AWG BLK 600v<br>8AWG BLK 600v<br>10AWG BLK 600v | OBTAIN LOCALLY |               |
| <b>3<sup>s</sup></b>  |                                  | Motor Protector   |                                                                   | 024-30907-000  | 024-30907-000 |
| <b>4</b>              |                                  | Ground Lug        |                                                                   | 025-34455-000  | 025-34455-000 |
| <b>5</b>              |                                  | Ground Lug        |                                                                   | 025-34085-000  | 025-34085-000 |
| <b>6</b>              | See page 48<br>for configuration | Terminal Block    | UKH50                                                             | 025-34482-000  | 025-34482-000 |
|                       |                                  |                   | UKH95                                                             | 025-34454-000  | 025-34454-000 |
|                       |                                  |                   | UKH150                                                            | 025-34408-000  | 025-34408-000 |
|                       |                                  |                   | UKH240                                                            | 025-34405-000  | 025-34405-000 |

<sup>s</sup> Recommended Spare Part

## POWER PANEL COMPONENTS (CONT'D) ACROSS-THE-LINE

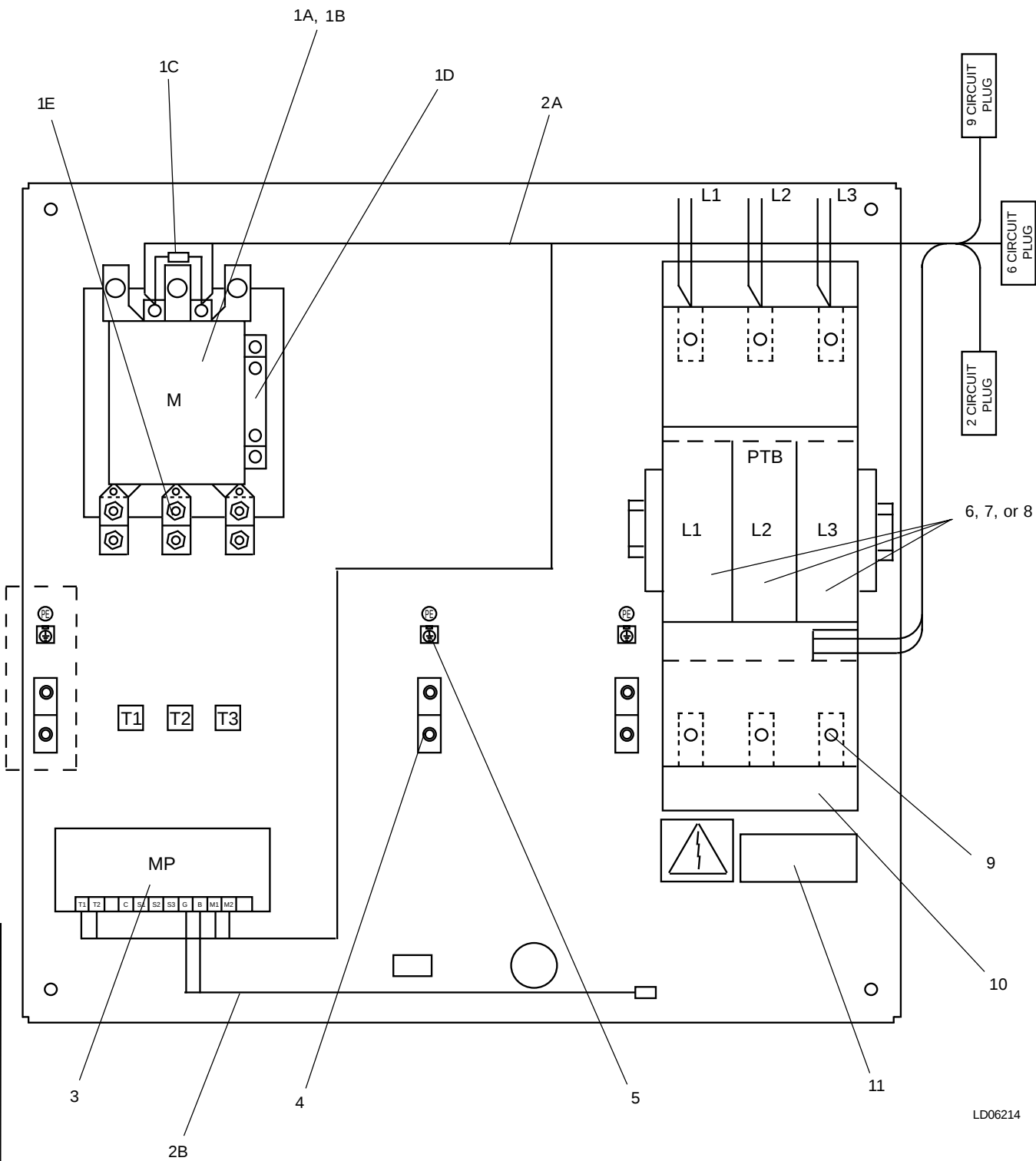
**TABLE 23 (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 31, PAGE 52)**

| ITEM NO. | VOLTAGE                          | DESCRIPTION          | TYPE     | SYSTEM 1      | SYSTEM 2      |
|----------|----------------------------------|----------------------|----------|---------------|---------------|
| 7        | See page 48<br>for configuration | Circuit Breaker      | S3H125TW | 024-31844-000 | 024-31844-000 |
|          |                                  |                      | S3H150TW | 024-31649-000 | 024-31649-000 |
|          |                                  |                      | S3H225TW | 024-31819-000 | 024-31819-000 |
|          |                                  |                      | S4H250BW | 025-34419-000 | 025-34419-000 |
|          |                                  |                      | S5H400BW | 024-34424-000 | 025-34424-000 |
| 8        | See page 48<br>for configuration | NF Disc Switch       | S3H150DW | 024-25575-000 | 024-25575-000 |
|          |                                  |                      | S4H250DW | 024-25565-000 | 024-25565-000 |
|          |                                  |                      | S5H400DW | 024-25564-000 | 024-25564-000 |
| 10       |                                  | Handle Kit           |          | 025-34417-000 | 025-34417-000 |
| 11       | See page 48<br>for configuration | Aux. Circuit Breaker | K5AS     | 024-31646-000 | 024-31646-000 |
|          |                                  |                      | K7AS     | 024-31648-000 | 024-31648-000 |

**TABLE 24 – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 31, PAGE 52)**

| ITEM NO. | C/B OR DISC SW<br>FRAME SIZE | LUG KIT (SET OF 3)<br>without CONTROL POWER TAP |     | LUG KIT (SET OF 3)<br>with CONTROL POWER TAP |     | WIRE RANGE                                         |
|----------|------------------------------|-------------------------------------------------|-----|----------------------------------------------|-----|----------------------------------------------------|
|          |                              | YORK PART #                                     | QTY | YORK PART #                                  | QTY |                                                    |
| 9        | S3-125/150/225A              | 025-34462-000                                   | 3   | ---                                          | 3   | #14 - 1/0 AWG<br>2.5 - 50 mm <sup>2</sup>          |
|          |                              | 025-34480-000                                   | 3   | ---                                          | 3   | #4 AWG - 300kcm<br>25 - 150 mm <sup>2</sup>        |
| 9        | S4-250A                      | 025-34418-000                                   | 3   | 024-31650-000                                | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>       |
| 9        | S5-400A                      | 025-34418-000                                   | 3   | ---                                          | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>       |
|          |                              | 025-34421-000                                   | 3   | ---                                          | 3   | 250 - 500 kcm<br>120 - 240mm <sup>2</sup>          |
| 9        | S6-600A                      | 025-34415-000                                   | 3   | ---                                          | 3   | (3)2/0 AWG-400 kcm<br>(2) 70 - 185 mm <sup>2</sup> |

ACROSS-THE-LINE POWER PANEL



LD06214

FIG. 31 – ACROSS-THE-LINE POWER PANEL LAYOUT (REF. TABLES 23 AND 24, PAGES 50 AND 51)

## POWER PANEL COMPONENTS WYE-DELTA

**TABLE 23A – POWER PANEL COMPONENTS (REF. FIG. 32, PAGE 55)**

| ITEM NO.              | MODEL / VOLTAGE | DESCRIPTION       | TYPES                                                             | SYSTEM 1       | SYSTEM 2      |
|-----------------------|-----------------|-------------------|-------------------------------------------------------------------|----------------|---------------|
| <b>1A, 1B</b>         | YCAS0090 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | 024-31602-000  | 024-31602-000 |
|                       | - 40            |                   |                                                                   | 024-31639-000  | 024-31639-000 |
|                       | - 46            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       | - 58            |                   |                                                                   | 024-31640-000  | 024-31640-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31602-000 |
| <b>1A, 1B</b>         | YCAS0100 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 40            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       | - 46            |                   |                                                                   | 024-31640-000  | 024-31640-000 |
|                       | - 58            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31602-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
| <b>1A, 1B</b>         | YCAS0110 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | -              | 025-31642-000 |
|                       | - 40            |                   |                                                                   | 024-31602-000  | 024-26577-000 |
|                       | - 46            |                   |                                                                   | 024-31639-000  | -             |
|                       | - 58            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31603-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
| <b>1A, 1B</b>         | YCAS0120 - 17   | Contactor         |                                                                   | 024-26577-000  | 024-26577-000 |
|                       | - 28            |                   |                                                                   | -              | 024-31642-000 |
|                       | - 40            |                   |                                                                   | 024-31602-000  | 024-26577-000 |
|                       | - 46            |                   |                                                                   | 024-31639-000  | -             |
|                       | - 58            |                   |                                                                   | 024-31636-000  | 024-31636-000 |
|                       |                 |                   |                                                                   | 024-31602-000  | 024-31603-000 |
|                       |                 |                   |                                                                   | 024-31636-000  | 024-31636-000 |
| <b>1C<sup>s</sup></b> |                 | Surge Suppressor  |                                                                   | 031-00808-000  | 031-00808-000 |
| <b>1D</b>             |                 | Mech. Interlock   | VE5-2                                                             | 024-31601-000  | 024-31601-000 |
|                       |                 |                   | VH145                                                             | 024-31600-000  | 024-31600-000 |
|                       |                 |                   | VH210A                                                            | 024-31637-000  | 024-31637-000 |
| <b>1E</b>             |                 | Lugs, Contactor   |                                                                   | 025-34401-000  | 025-34401-000 |
| <b>2A</b>             |                 | 120V Wire Harness |                                                                   | 071-02600-000  | 071-02600-000 |
| <b>2B</b>             |                 | High V Power Wire | 4AWG BLK 600v<br>6AWG BLK 600v<br>8AWG BLK 600v<br>10AWG BLK 600v | OBTAIN LOCALLY |               |
| <b>3<sup>s</sup></b>  |                 | Motor Protector   |                                                                   | 024-30907-000  | 024-30907-000 |

## POWER PANEL COMPONENTS (CONT'D) WYE-DELTA

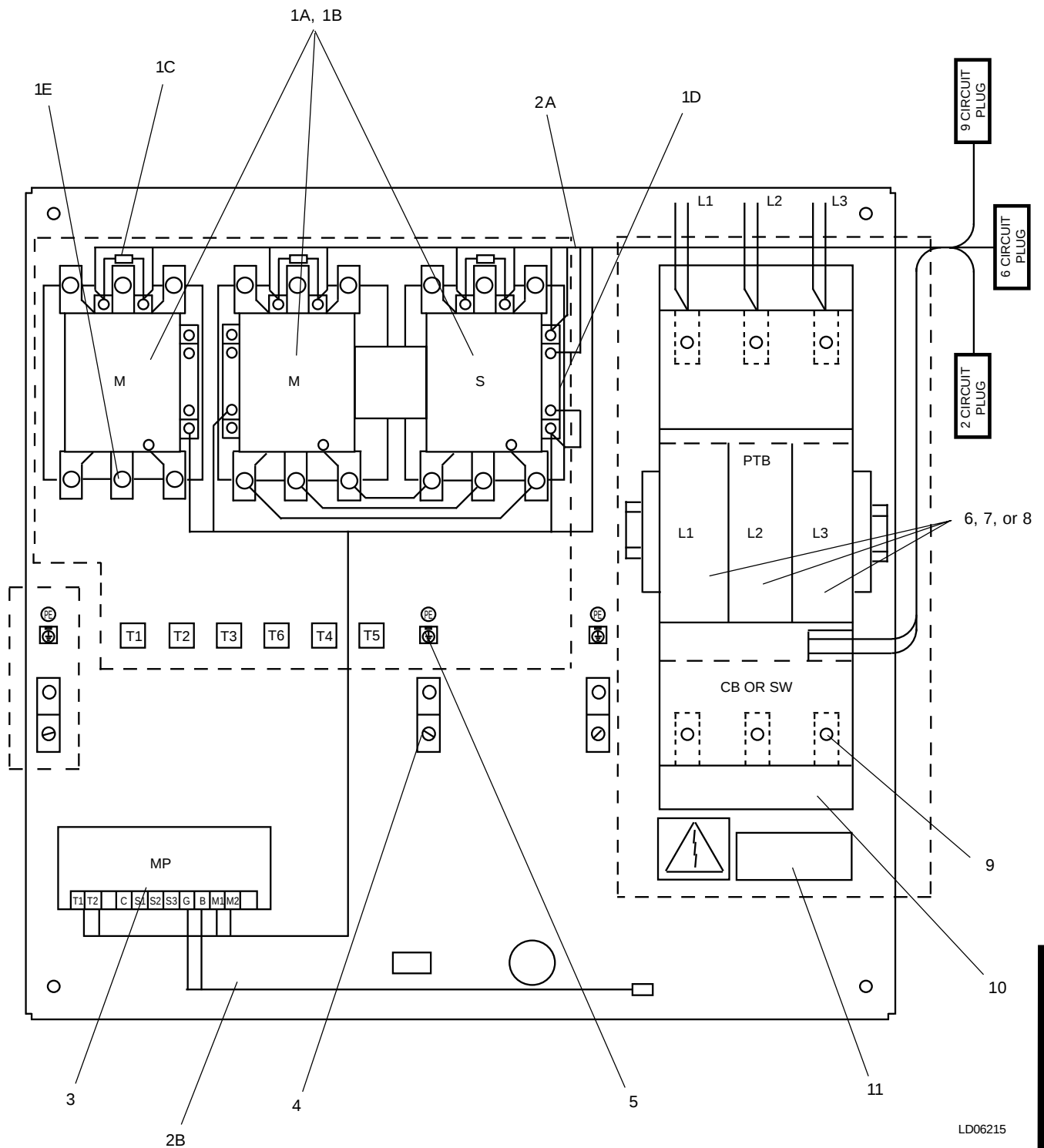
**TABLE 23A (CONT'D) – POWER PANEL COMPONENTS (SEE FIG. 32, PAGE 55)**

| ITEM NO. | VOLTAGE                          | DESCRIPTION          | TYPE                                                     | SYSTEM 1                                                                          | SYSTEM 2                                                                          |
|----------|----------------------------------|----------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 4        |                                  | Ground Lug           |                                                          | 025-34455-000                                                                     | 025-34455-000                                                                     |
| 5        |                                  | Ground Lug           |                                                          | 025-34085-000                                                                     | 025-34085-000                                                                     |
| 6        |                                  | Terminal Block       | UKH50<br>UKH95<br>UKH150<br>UKH240                       | 025-34482-000<br>025-34454-000<br>025-34408-000<br>025-34405-000                  | 025-34482-000<br>025-34454-000<br>025-34408-000<br>025-34405-000                  |
| 7        | See page 48<br>for configuration | Circuit Breaker      | S3H125TW<br>S3H150TW<br>S3H225TW<br>S4H250BW<br>S5H400BW | 024-31844-000<br>024-31649-000<br>024-31819-000<br>025-34419-000<br>024-34424-000 | 024-31844-000<br>024-31649-000<br>024-31819-000<br>025-34419-000<br>025-34424-000 |
| 8        | See page 48<br>for configuration | NF Disc Switch       | S3H150DW<br>S4H250DW<br>S5H400DW                         | 024-25575-000<br>024-25565-000<br>024-25564-000                                   | 024-25575-000<br>024-25565-000<br>024-25564-000                                   |
| 10       |                                  | Handle Kit           |                                                          | 025-34417-000                                                                     | 025-34417-000                                                                     |
| 11       | See page 48<br>for configuration | Aux. Circuit Breaker | K5AS<br>K7AS                                             | 024-31646-000<br>024-31648-000                                                    | 024-31646-000<br>024-31648-000                                                    |

**TABLE 24A – POWER PANEL COMPONENTS - LUG KITS – (SEE FIG. 32, PAGES 55)**

| ITEM NO. | C/B or DISC SW<br>FRAME SIZE | LUG KIT (SET OF 3)<br>without CONTROL POWER TAP |     | LUG KIT (SET OF 3)<br>with CONTROL POWER TAP |     | WIRE RANGE                                           |
|----------|------------------------------|-------------------------------------------------|-----|----------------------------------------------|-----|------------------------------------------------------|
|          |                              | YORK PART #                                     | QTY | YORK PART #                                  | QTY |                                                      |
| 9        | S3-125/150/225A              | 025-34462-000                                   | 3   | ---                                          | 3   | #14 - 1/0 AWG<br>2.5 - 50 mm <sup>2</sup>            |
|          |                              | 025-34480-000                                   | 3   | ---                                          | 3   | #4 AWG - 300kcm<br>25 - 150 mm <sup>2</sup>          |
| 9        | S4-250A                      | 025-34418-000                                   | 3   | 024-31650-000                                | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>         |
| 9        | S5-400A                      | 025-34418-000                                   | 3   | ---                                          | 3   | #6 AWG - 350 kcm<br>16 - 150 mm <sup>2</sup>         |
|          |                              | 025-34421-000                                   | 3   | ---                                          | 3   | 250 - 500 kcm<br>120 - 240mm <sup>2</sup>            |
| 9        | S6-600A                      | 025-34415-000                                   | 3   | ---                                          | 3   | (3)2/0 AWG - 400 kcm<br>(2) 70 - 185 mm <sup>2</sup> |

## WYE-DELTA POWER PANEL



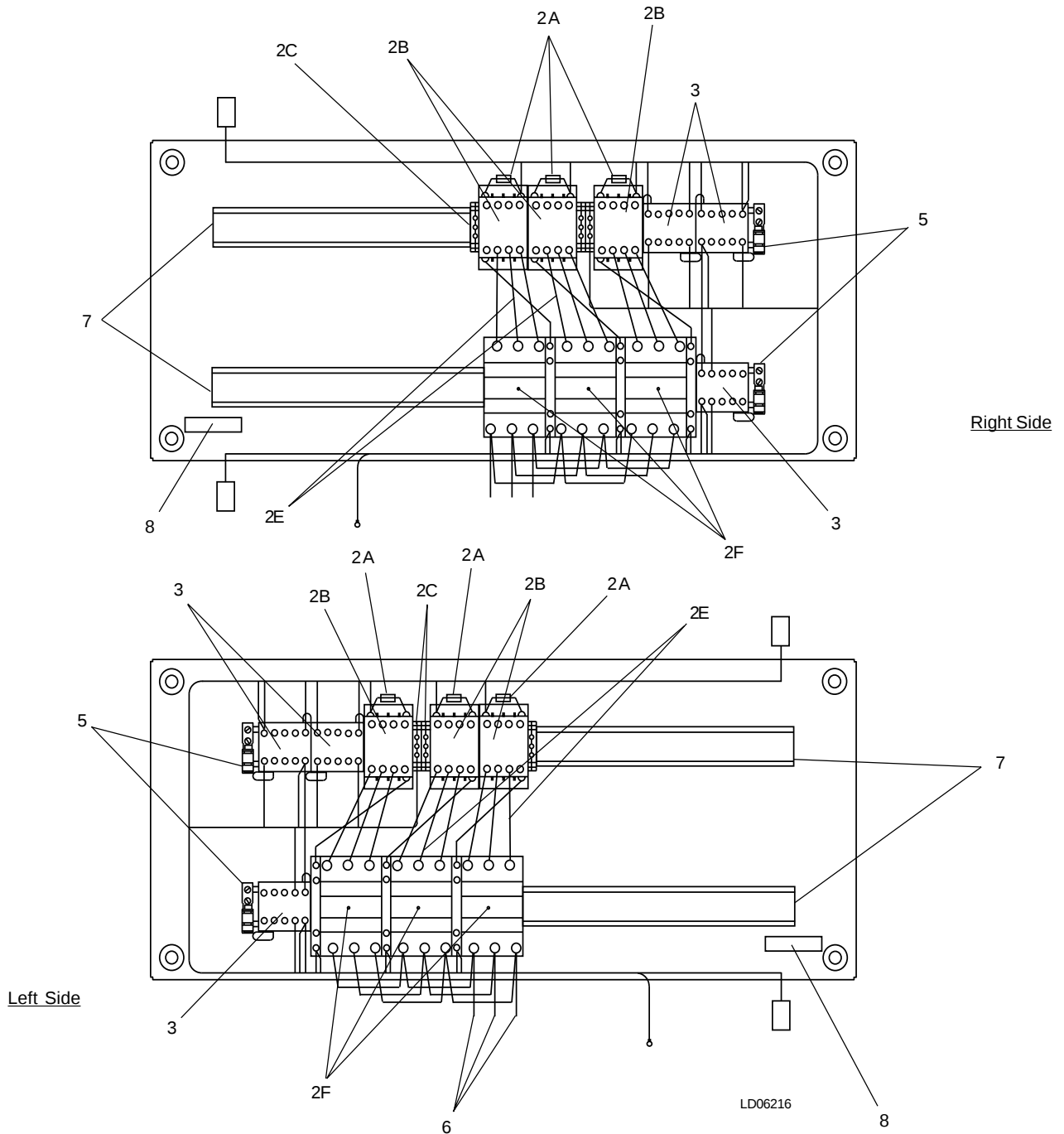
**FIG. 32 – WYE-DELTA POWER PANEL TYPICAL LAYOUT (REF. TABLES 23A AND 24A, PAGES 53 AND 54)**

### 3 FAN CONTACTOR PANEL COMPONENTS

**TABLE 25 – 3 FAN CONTACTOR PANEL COMPONENTS – YCAS F (SEE FIG. 33, PAGE 57)**

| ITEM NO. | VOLTAGE       | DESCRIPTION       | TYPE     | ADJUSTMENT     | PART NUMBER   |
|----------|---------------|-------------------|----------|----------------|---------------|
| 2A       |               | Surge Suppressor  |          |                | 031-00808-000 |
| 2B       | YCAS0090 - 17 | Contactor         | A12      |                | 025-34445-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A9       |                | 025-34448-000 |
| 2B       | YCAS0100 - 17 | Contactor         | A12      |                | 025-34445-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A9       |                | 025-34448-000 |
| 2B       | YCAS0110 - 17 | Contactor         | A16      |                | 024-31830-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A12      |                | 025-34445-000 |
| 2B       | YCAS0120 - 17 | Contactor         | A16      |                | 024-31830-000 |
|          | - 28          |                   | A12      |                | 025-34445-000 |
|          | - 40          |                   | A9       |                | 025-34448-000 |
|          | - 46          |                   | A9       |                | 025-34448-000 |
|          | - 58          |                   | A12      |                | 025-34445-000 |
| 2C       |               | PH Terminal       | USLKG2.5 |                | 025-34447-000 |
| 2E       |               | 14AWG BLK 600V 1  |          |                | 025-08897-000 |
| 2F       |               | Overload          | 6.3A     | 4.0-6.3 Amps   | 025-34450-000 |
|          |               |                   | 9.0A     | 6.3-9.0 Amps   | 025-34449-000 |
|          |               |                   | 12.5A    | 9.0-12.5 Amps  | 025-34446-000 |
|          |               |                   | 16.0A    | 12.5-16.0 Amps | N/A           |
| 3        |               | Contactor 600V    |          |                | 025-31635-000 |
| 5        |               | End Clamp         |          |                | 025-34439-000 |
| 6        |               | 10AWG BLK 600V 1  |          |                | 025-11585-000 |
| 7        |               | 12-10AWG #8 Ring  |          |                | 025-34091-000 |
|          |               | Din Rail, Slotted |          |                | 025-29167-000 |
| 8        |               | Label, Caution    |          |                | 035-05548-000 |

### 3 FAN CONTACTOR PANEL COMPONENTS (CONT'D)



**FIG. 33 – 3 FAN CONTACTOR PANEL COMPONENTS– YCAS F (REF. TABLE 25, PAGE 56)**

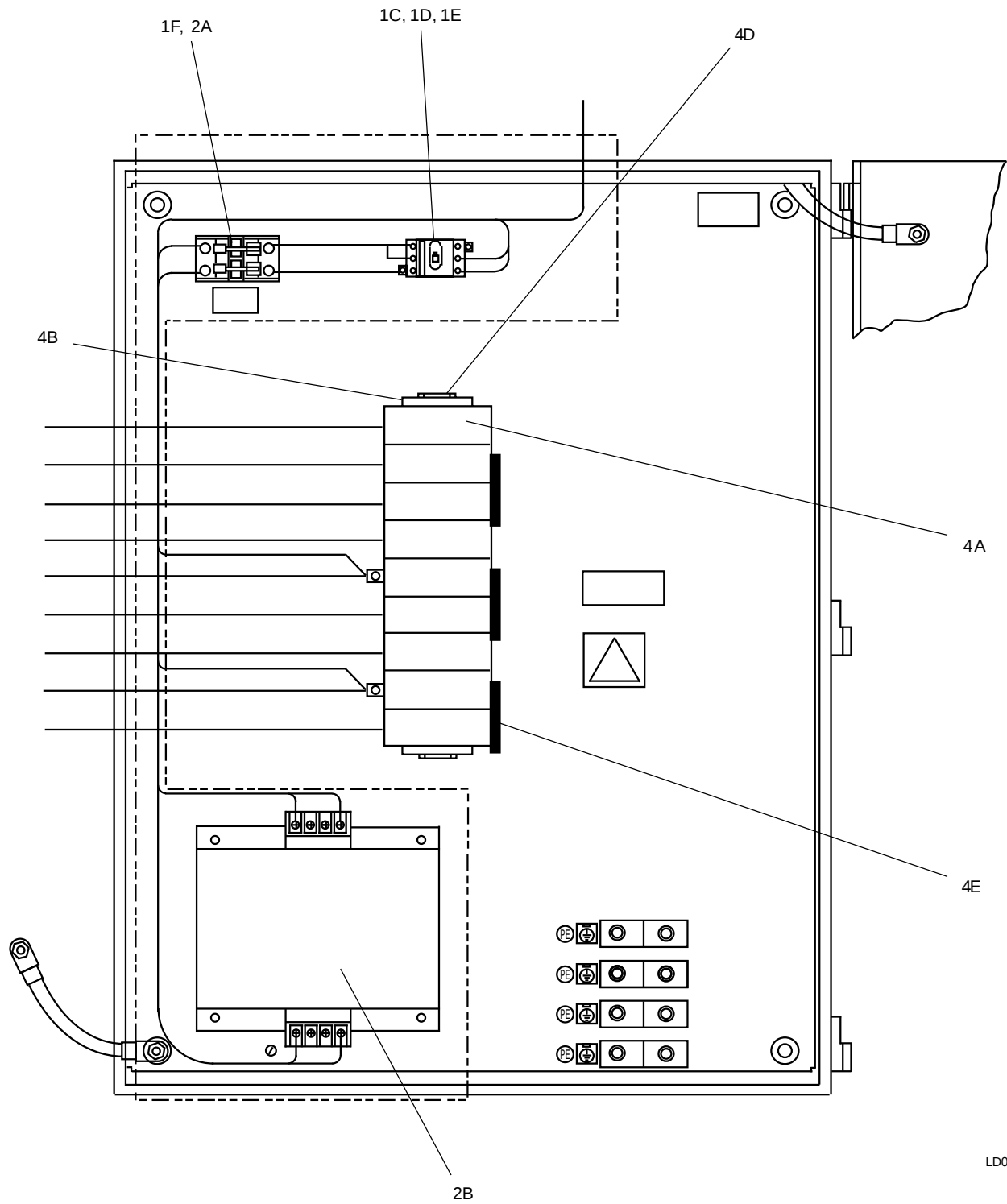
## OPTIONS PANEL COMPONENTS

**TABLE 26 – OPTIONS PANEL COMPONENTS (SEE FIG. 34 AND 35, PAGES 59 AND 60)**

| ITEM NO.                                | PART NO.      | DESCRIPTION                                 | QTY. |
|-----------------------------------------|---------------|---------------------------------------------|------|
| 4A                                      | 024-25575-000 | Disconnect Switch, 150 Amp                  | 1    |
| 4A                                      | 024-25565-000 | Disconnect Switch, 250 Amp                  | 1    |
| 4A                                      | 024-31844-000 | Circuit Breaker, 125 Amp (S3H125TW)         | 1    |
| 4A                                      | 024-31649-000 | Circuit Breaker, 150 Amp (S3H150TW)         | 1    |
| 4A                                      | 024-31819-000 | Circuit Breaker, 225 Amp (S3H225TW)         | 1    |
| 4A                                      | 024-34424-000 | Circuit Breaker, 400 Amp (S4H400BW)         | 1    |
| 4A                                      | 024-34425-000 | Circuit Breaker, 600 Amp (S6H600BW)         | 1    |
| 4A                                      | 025-34482-000 | Terminal Block UKH50                        | 3    |
| 4A                                      | 025-34454-000 | Terminal Block UKH95                        | 3    |
| 4A                                      | 025-34408-000 | Terminal Block UKH150                       | 3    |
| 4A                                      | 025-34405-000 | Terminal Block UKH240                       | 3    |
| 4B                                      | 025-34413-000 | Handle Kit, size S6 CB or Disc. Sw.         | 1    |
| 4B                                      | 025-34417-000 | Handle Kit, size S3, S4, S5 CB or Disc. Sw. | 1    |
| <b>Lug Kits LESS Control Power Tap*</b> |               |                                             |      |
| 4C                                      | 025-34415-000 | L.K. (3) 2/0-400                            | 1    |
| 4C                                      | 025-34418-000 | L.K. (1) 6-350MCM                           | 1    |
| 4C                                      | 025-34421-000 | L.K. (6) 250-500                            | 1    |
| 4C                                      | 025-34480-000 | L.K. (1) 4-300MCM                           | 1    |
| <b>Lug Kits WITH Control Power Tap*</b> |               |                                             |      |
| 4D                                      | 024-31650-000 | L.K. (1) 6-350MCM (wire range)              | 1    |
| <b>Terminal Block Jumpers</b>           |               |                                             |      |
| 4E                                      | 025-34422-000 | Insertion Bridge EB2-31/UKH                 | 2    |
| 4E                                      | 025-34423-000 | Insertion Bridge EB2-36/UKH                 | 3    |
| 4E                                      | 025-34426-000 | Insertion Bridge EB3-36/UKH                 | 3    |
| 4E                                      | 025-34497-000 | Insertion Bridge                            | 3    |
| 1C                                      | 024-31833-000 | Switch, Non-Fused Disconnect                | 1    |
| 1D                                      | 024-31633-000 | Shaft, Disconnect Switch                    | 1    |
| 1E                                      | 024-31832-000 | Handle, Disconnect Switch                   | 1    |
| 1F                                      | 024-34427-000 | Control #UF811                              | 1    |
| 2B                                      | 025-34434-000 | Transformer, 2 kVA, 200-120V                | 1    |
| 2B                                      | 025-34436-000 | Transformer, 2 kVA, 380-120V                | 1    |
| 2B                                      | 025-34437-000 | Transformer, 2 kVA, 415-120V                | 1    |
| 2B                                      | 025-34429-000 | Transformer, 2 kVA, 460-120V                | 1    |
| 2B                                      | 025-34432-000 | Transformer, 2 kVA, 580-120V                | 1    |
| 2B                                      | 025-34493-000 | Transformer, 2 kVA 1PH 50/60 Hz             | 1    |
| 2A                                      | 025-34431-000 | Fuse, 8 Amp 600V CL-CC                      | 2    |
| 2A                                      | 025-34430-000 | Fuse, 10 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-34435-000 | Fuse, 12 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-34428-000 | Fuse, 20 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-34433-000 | Fuse, 25 Amp 600V CL-CC                     | 2    |
| 2A                                      | 025-35668-000 | Fuse, 12 Amp 500V type aM                   | 2    |

\* NOTE: Number in parenthesis indicates number of contactors per lug.

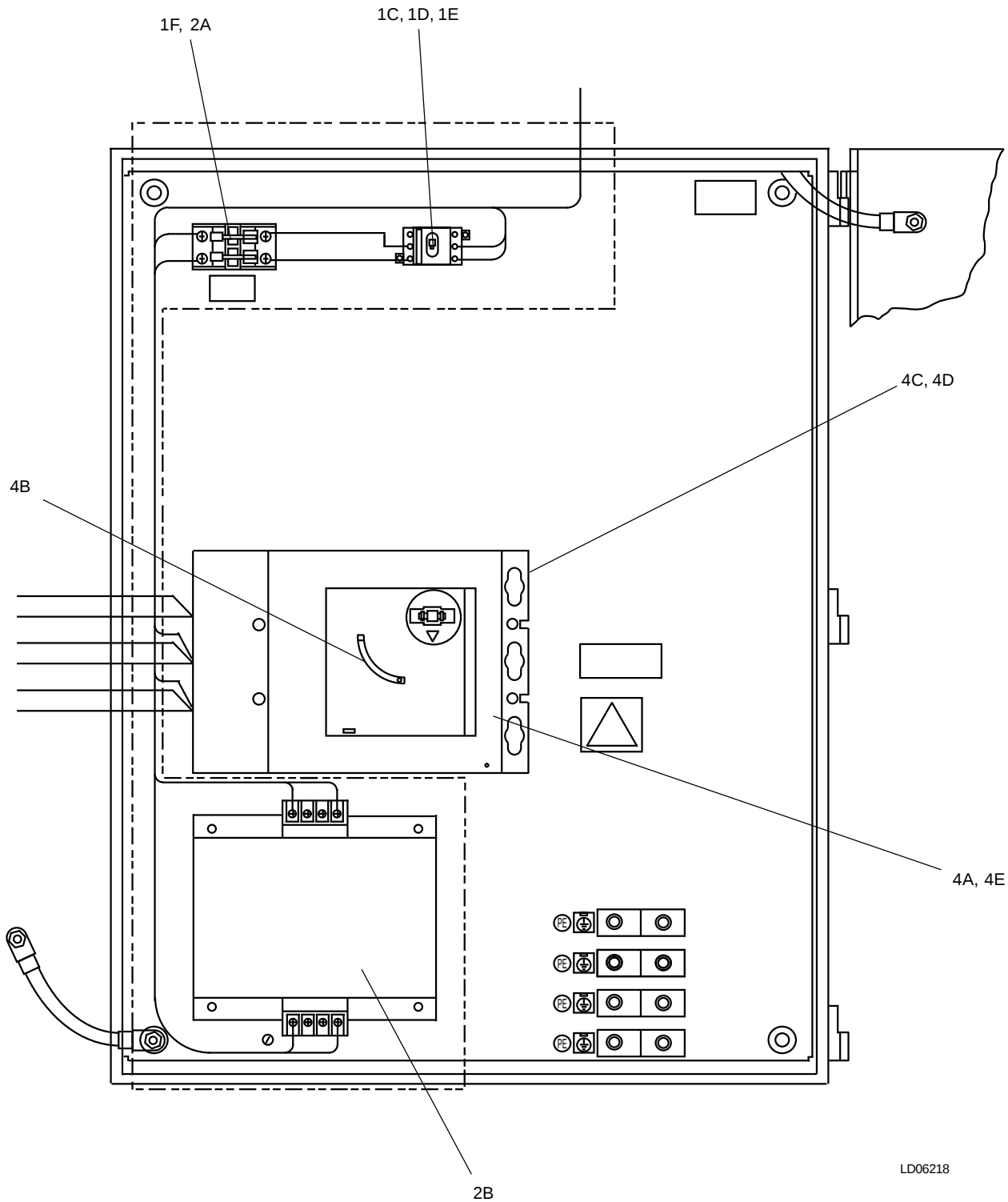
OPTIONS PANEL COMPONENTS (CONT'D)



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FIG. 34 – OPTIONS PANEL WITH POWER TERMINAL BLOCK OPTION (REF. TABLE 26, PAGE 58)

## OPTIONS PANEL COMPONENTS (CONT'D)



LD06218

**FIG. 35 –** OPTIONS PANEL WITH CIRCUIT BREAKER OR NON-FUSED DISCONNECT SWITCH OPTION (REF. TABLE 26, PAGE 58)

## YCAS CHILLER – OPTIONS KITS

**TABLE 27 – FIELD INSTALLABLE OPTIONS KIT TABLE**

| MODEL<br>NUMBER<br>YCAS - F | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/AL | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/CU | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/CU | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/CU |
|-----------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|
| MODEL NO.                   | 029-22941                                               | 029-22941                                                 | 029-22941                                            | 029-22941                                               | 029-22941                                                 | 029-22941                                            |
| 0090                        | -101                                                    | -201                                                      | -001                                                 | -151                                                    | -251                                                      | -007                                                 |
| 0100                        | -102                                                    | -201                                                      | -002                                                 | -151                                                    | -251                                                      | -007                                                 |
| 0110                        | -103                                                    | -202                                                      | -003                                                 | -152                                                    | -252                                                      | -008                                                 |
| 0120                        | -103                                                    | -202                                                      | -003                                                 | -152                                                    | -252                                                      | -008                                                 |

\* Note Tubing and Fin Coil Material

**TABLE 27 (CONT'D) – FIELD INSTALLABLE OPTIONS KIT TABLE**

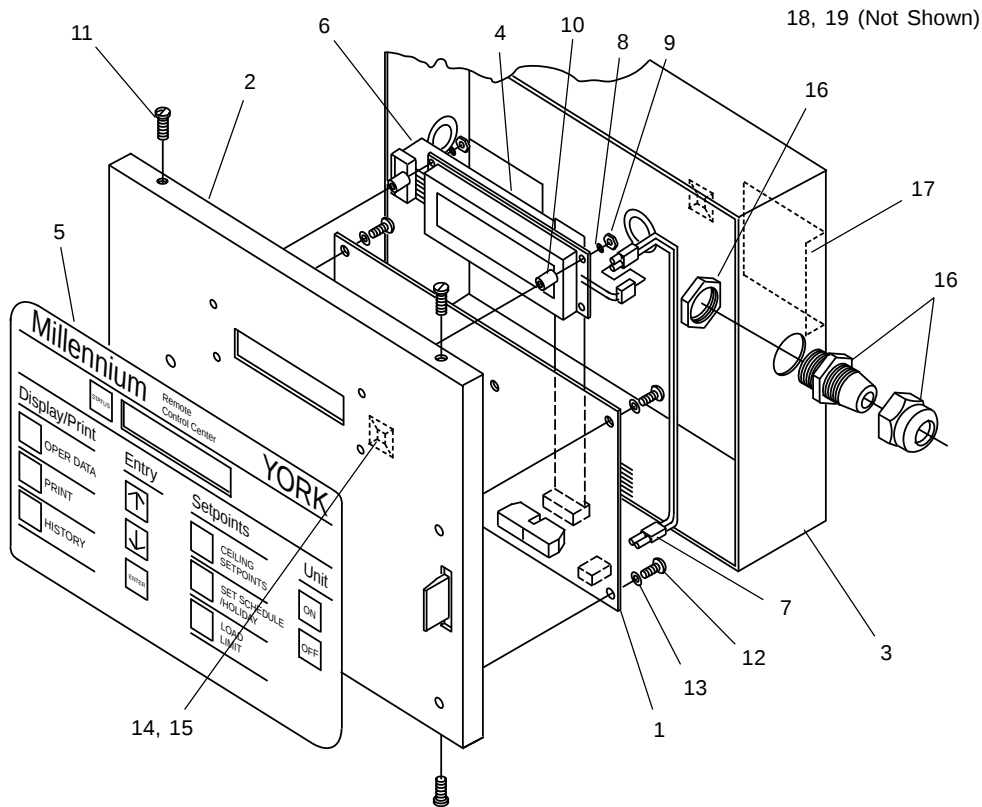
| MODEL<br>NUMBER<br>YCAS - F | WIRE<br>ENCLOSURE<br>FULL UNIT | LOUVERED<br>ENCLOSURE<br>FULL UNIT | WIRE/<br>LOUVERED<br>ENCLOSURE<br>FULL UNIT | LOUVERED<br>ENCLOSURE<br>CONDENSER<br>ONLY | BAS / EMS<br>INTERFACE<br>KIT | REMOTE<br>CONTROL<br>PANEL<br>60 HZ |
|-----------------------------|--------------------------------|------------------------------------|---------------------------------------------|--------------------------------------------|-------------------------------|-------------------------------------|
| MODEL NO.                   | 375-29513                      | 375-29514                          | 375-29515                                   | 375-29516                                  | 371-02590                     | 371-02485                           |
| 0090                        | -105                           | -105                               | -105                                        | -105                                       | -102                          | -102                                |
| 0100                        | -105                           | -105                               | -105                                        | -105                                       | -102                          | -102                                |
| 0110                        | -120                           | -120                               | -120                                        | -120                                       | -102                          | -102                                |
| 0120                        | -120                           | -120                               | -120                                        | -120                                       | -102                          | -102                                |

**TABLE 28 – REMOTE EVAPORATOR - FIELD INSTALLABLE OPTIONS KIT TABLE**

| MODEL<br>NUMBER<br>YCAS - F | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/AL | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/AL | VIBRATION<br>ISOLATORS<br>SPRING 1"<br>DEFLEC*<br>CU/CU | VIBRATION<br>ISOLATORS<br>SPRING 2"<br>(SEISMIC)<br>CU/CU | VIBRATION<br>ISOLATOR<br>PAD<br>1/2" DEFLEC<br>CU/CU |
|-----------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|
| MODEL NO.                   | 029-22967                                               | 029-                                                      | 029-22967                                            | 029-                                                    | 029-22967                                                 | 029-22967                                            |
| 0090                        | -101                                                    | 22067-201                                                 | -005                                                 | 22967-151                                               | -251                                                      | -001                                                 |
| 0100                        | -101                                                    | 22067-201                                                 | -005                                                 | 22967-151                                               | -251                                                      | -001                                                 |
| 0110                        | -102                                                    | 22967-202                                                 | -006                                                 | 22941-152                                               | -252                                                      | -002                                                 |
| 0120                        | -102                                                    | 22967-202                                                 | -006                                                 | 22941-152                                               | -252                                                      | -002                                                 |

\* Note Tubing and Fin Coil Material

# REMOTE CONTROL CENTER



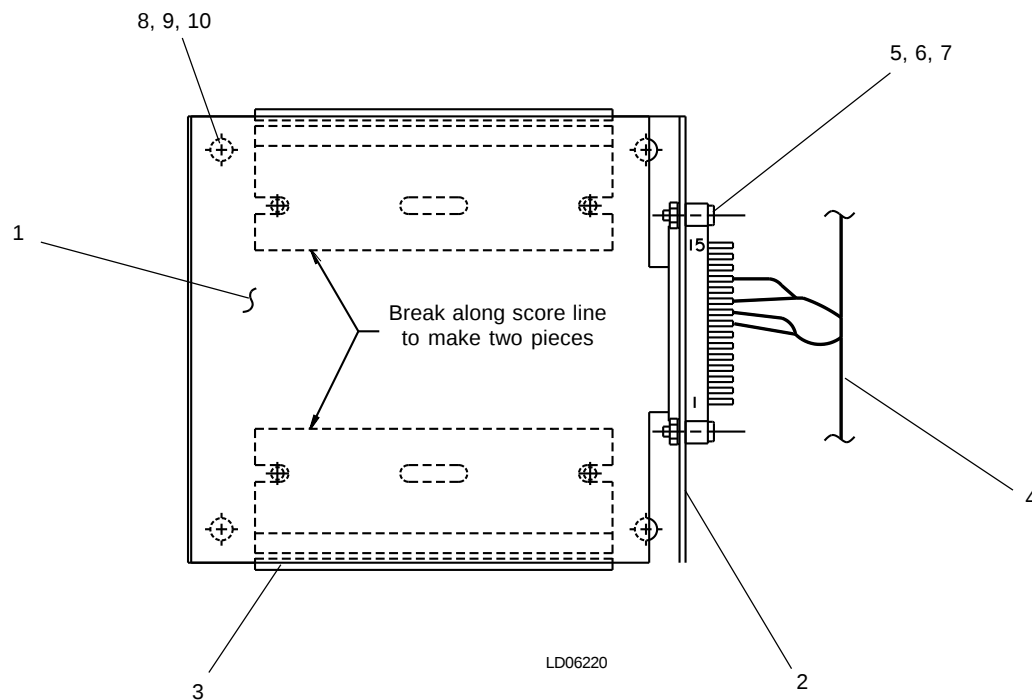
LD06219

FIG. 36 – REMOTE CONTROL CENTER PARTS (REF. TABLE 29)

TABLE 29 – REMOTE CONTROL CENTER PARTS (SEE FIG. 36)

| 371-02485-102 (60 HZ) |          |                                        |               |
|-----------------------|----------|----------------------------------------|---------------|
| REF. NUMBER           | QUANTITY | DESCRIPTION                            | PART NUMBER   |
| 1                     | 1        | CONTROL, MICROBOARD                    | 031-01196-000 |
| 2                     | 1        | COVER, REMOTE CONTROL                  | 371-02485-311 |
| 3                     | 1        | BASE, REMOTE CONTROL                   | 071-02485-320 |
| 4                     | 1        | DISPLAY, LCD                           | 031-01110-000 |
| 5                     | 1        | SWITCH, KEYPAD                         | 024-30930-000 |
| 6                     | 1        | RIBBON CABLE                           | 071-01289-211 |
| 7                     | 1        | WIRE CABLE                             | 071-01289-212 |
| 8                     | 4        | LKWASH HEL. SPG. #4 REG.               | 021-17576-000 |
| 9                     | 4        | NUT, HEX MACH SCREW - #4 – 40 UNC-2B.  | 021-10056-000 |
| 10                    | 4        | SPACER, NYLON 1/4 OD X 7/16 LG.        | 021-17575-000 |
| 11                    | 4        | SCREW TAP THD. FORM TYPE AB            | 021-14150-000 |
| 12                    | 4        | SCREW, MACH PAN HD.                    | 021-01719-000 |
| 13                    | 4        | LKWASH, TH. INT. #8                    | 021-01133-000 |
| 14                    | 3        | CABLE TIE MOUNT                        | 025-25155-000 |
| 15                    | 5        | CABLE TIE                              | 025-18167-000 |
| 16                    | 1        | CABLE FITTING                          | 025-31732-000 |
| 17                    | 2        | INSULATOR, RECIPAK, ROOFTOP            | 071-01730-000 |
| 18                    | 2        | MODULE, LAN TRANSIENT PROTECTION (LTP) | 031-01586-000 |
| 19                    | 1        | INSTALLATION INSTRUCTIONS              | 071-01289-002 |

## CURRENT/TEMPERATURE RESET PARTS BREAKDOWN



**FIG. 37 – REMOTE CURRENT/TEMPERATURE RESET KIT (REF. TABLE 30)**

**TABLE 30 – REMOTE CURRENT/TEMPERATURE RESET KIT (SEE FIG. 37)**

| REF. NUMBER | QUANTITY | DESCRIPTION              | PART NUMBER   |
|-------------|----------|--------------------------|---------------|
| 1           | 1        | CONTROL, REMOTE          | 031-00814-000 |
| 2           | 1        | BRACKET, REMOTE RESET    | 371-01232-361 |
| 3           | 1        | TRACK, SNAP              | 071-01232-363 |
| 4           | 1        | WIRING, REMOTE RESET     | 571-02492-221 |
| 5           | 2        | SCREW MACH. PAN HD #4    | 021-17594-000 |
| 6           | 4        | NUT, HEX - #4 - 40.      | 021-10056-000 |
| 7           | 2        | LKWASH HEL. SPG. #4 REG. | 021-17576-000 |
| 8           | 4        | NUT, HEX - #6 - 32.      | 021-08281-000 |
| 9           | 4        | LKWASH TH. INT. #6.      | 021-01132-000 |
| 10          | 4        | WASHER, FLAT #6.         | 021-11641-000 |

**TABLE 31 – REMOTE CURRENT/TEMPERATURE RESET KIT - LOOSE SHIP PARTS**

| QUANTITY | DESCRIPTION                        | PART NUMBER    |
|----------|------------------------------------|----------------|
| 2        | CONT SOC AWG WIRE SIZE 20          | 025-19674-000  |
| 2        | TERMINAL PUSH ON STRAIGHT          | 025-06642-000  |
| 4        | TUBING HEAT SHRINKABLE 1/8 ID      | 025-29632-000  |
| 1        | HGS CONNECTOR ELECTRICAL PLUG      | 025-21137-000* |
| 1        | CONNECTOR EDGE, 15 POSITION, 0.125 | 025-29631-000  |

\* Was P/N 025-21137-000 prior to Spring 1999.

# **ENCLOSURE KIT OPTIONS – FULL UNIT** **(Includes Top and Bottom Sections)**

**TABLE 32 – ENCLOSURE KIT OPTIONS**

| MODEL<br>NUMBER | WIRE<br>ENCLOSURE<br>FULL UNIT * | LOUVERED<br>ENCLOSURE<br>FULL UNIT * | WIRE /<br>LOUVERED<br>ENCLOSURE<br>FULL UNIT * | LOUVERED<br>ENCLOSURE<br>CONDENSER<br>ONLY |
|-----------------|----------------------------------|--------------------------------------|------------------------------------------------|--------------------------------------------|
| <b>YCAS - F</b> | <b>375-29513-</b>                | <b>375-29514-</b>                    | <b>375-29515-</b>                              | <b>375-29516-</b>                          |
| <b>0090</b>     | 105                              | 105                                  | 105                                            | 105                                        |
| <b>0100</b>     | 105                              | 105                                  | 105                                            | 105                                        |
| <b>0110</b>     | 120                              | 120                                  | 120                                            | 012                                        |
| <b>0120</b>     | 120                              | 120                                  | 120                                            | 012                                        |

\* Full units include top and bottom sections listed in Tables 34 - 37. Top or bottom sections may be ordered separately if desired.

## ENCLOSURE KIT OPTIONS - TOP AND BOTTOM (Full Unit, Top and Bottom Kit Numbers)

**TABLE 33 – ENCLOSURE KIT OPTIONS – TOP AND BOTTOM KITS AVAILABLE SEPARATELY**

| FULL UNIT KIT OPTION NUMBER INCLUDES THE FOLLOWING TOP AND BOTTOM SECTION KITS |                   |                         |                         |
|--------------------------------------------------------------------------------|-------------------|-------------------------|-------------------------|
| TYPE                                                                           | FULL UNIT KIT NO. | TOP KIT NO.             | BOTTOM KIT NO.          |
| WIRE                                                                           | 375-29513-105     | 375-29569-100 (FIG. 38) | 375-29569-101 (FIG. 39) |
| WIRE                                                                           | 375-29513-120     | 375-29569-120 (FIG. 38) | 375-29081-121 (FIG. 39) |
| LOUVER                                                                         | 375-29514-105     | 375-29571-100 (FIG. 40) | 375-29571-101 (FIG. 41) |
| LOUVER                                                                         | 375-29514-120     | 375-29571-120 (FIG. 40) | 375-29080-121 (FIG. 41) |
| W/L                                                                            | 375-29515-105     | 375-29571-100           | 375-29569-101           |
| W/L                                                                            | 375-29515-120     | 375-29571-120           | 375-29081-121           |
| LOUVER                                                                         | 375-29516-105     | 375-29571-100           | N/A                     |
| LOUVER                                                                         | 375-29516-012     | 375-29571-120           | N/A                     |

- Top and Bottom may be ordered separately.
- Individual parts are shown on the following pages.

# WIRE ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN

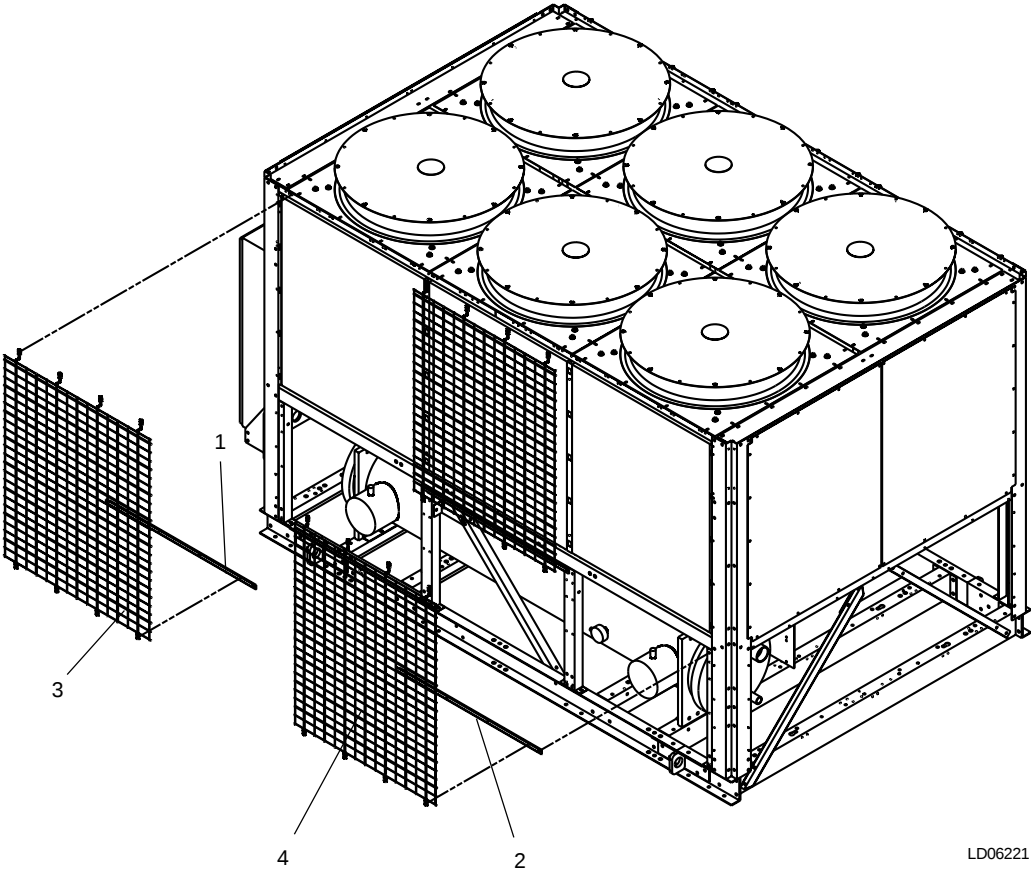
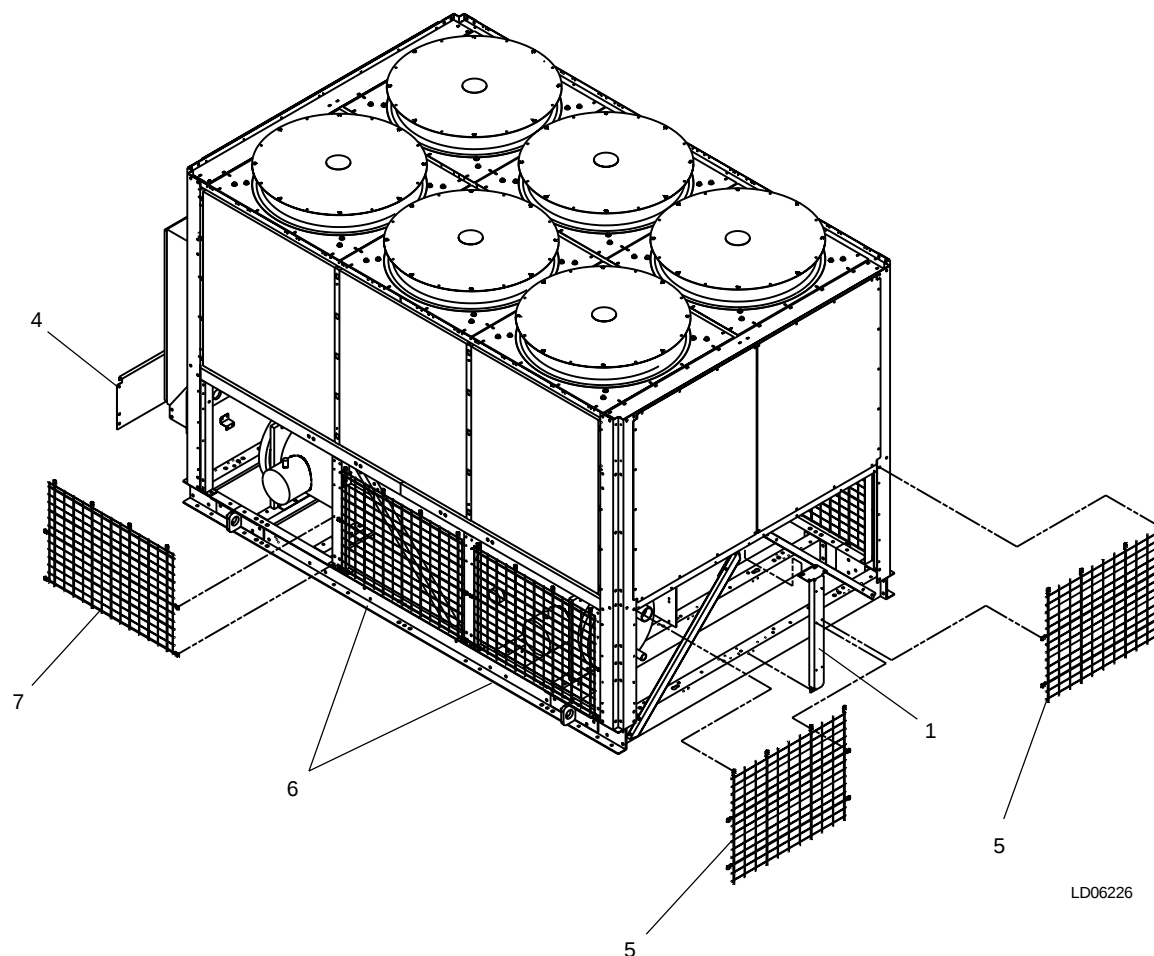


FIG. 38 – TOP SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-100 IS SHOWN.

TABLE 34 – TOP SECTION - WIRE ENCLOSURE

| TOP KIT COMPONENTS 375-29569-100 AND 375-29569-120 |      |                           |               |               |
|----------------------------------------------------|------|---------------------------|---------------|---------------|
| ITEM NUMBER                                        | QTY. | DESCRIPTION               | 375-29569-100 | 375-29569-120 |
| 1                                                  | 2    | CHANNEL                   | 075-29072-000 | 075-29588-000 |
| 2                                                  | 4    | Z CHANNEL DXST            | 075-29073-000 | 075-29589-000 |
| 3                                                  | 2    | WIRE GRILL CONDENSER DXST | 026-36770-000 | 026-36533-000 |
| 4                                                  | 4    | WIRE GRILL CONDENSER DXST | 026-36771-000 | 026-36533-000 |
| Not Shown                                          | 1    | HARDWARE KIT              | 321-29569-100 | 321-29569-120 |

## WIRE ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN

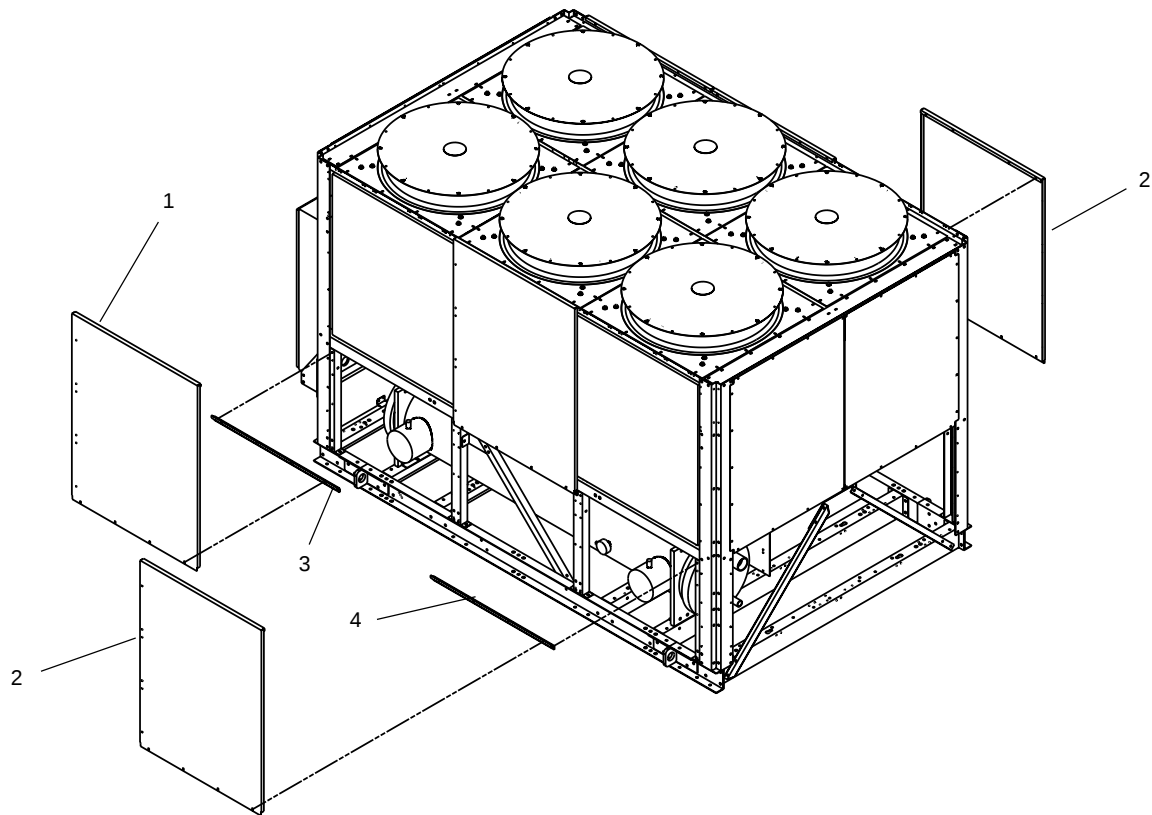


**FIG. 39 – BOTTOM SECTION - WIRE ENCLOSURE - KIT NO. 375-29569-101 IS SHOWN.**

**TABLE 35 – BOTTOM SECTION - WIRE ENCLOSURE**

| BOTTOM KIT COMPONENTS 375-29569-101 AND 375-29081-121 |      |                           |               |               |
|-------------------------------------------------------|------|---------------------------|---------------|---------------|
| ITEM NUMBER                                           | QTY. | DESCRIPTION               | 375-29569-101 | 375-29081-121 |
| 1                                                     | 1    | REAR SUPPORT              | 075-29590-000 | 075-29590-000 |
| 2                                                     | 1    | PANEL VANITY RH           | N/A           | 075-29591-000 |
| 3                                                     | 1    | PANEL VANITY LH           | N/A           | 075-29592-000 |
| 4                                                     | 1    | TAMPERPROOF PANEL         | 075-29075-000 | 075-29075-000 |
| 5                                                     | 2    | WIRE GRILL CONDENSER REAR | 026-36565-000 | 026-36535-000 |
| 6                                                     | 4    | WIRE GRILL CONDENSER DXST | 026-36773-000 | 026-36534-000 |
| 7                                                     | 2    | WIRE GRILL CONDENSER DXST | 026-36772-000 | 026-36534-000 |
| Not Shown                                             | 1    | HARDWARE KIT              | 321-29569-101 | 321-29081-121 |

LOUVERED ENCLOSURE TOP SECTION SPARE PARTS BREAKDOWN



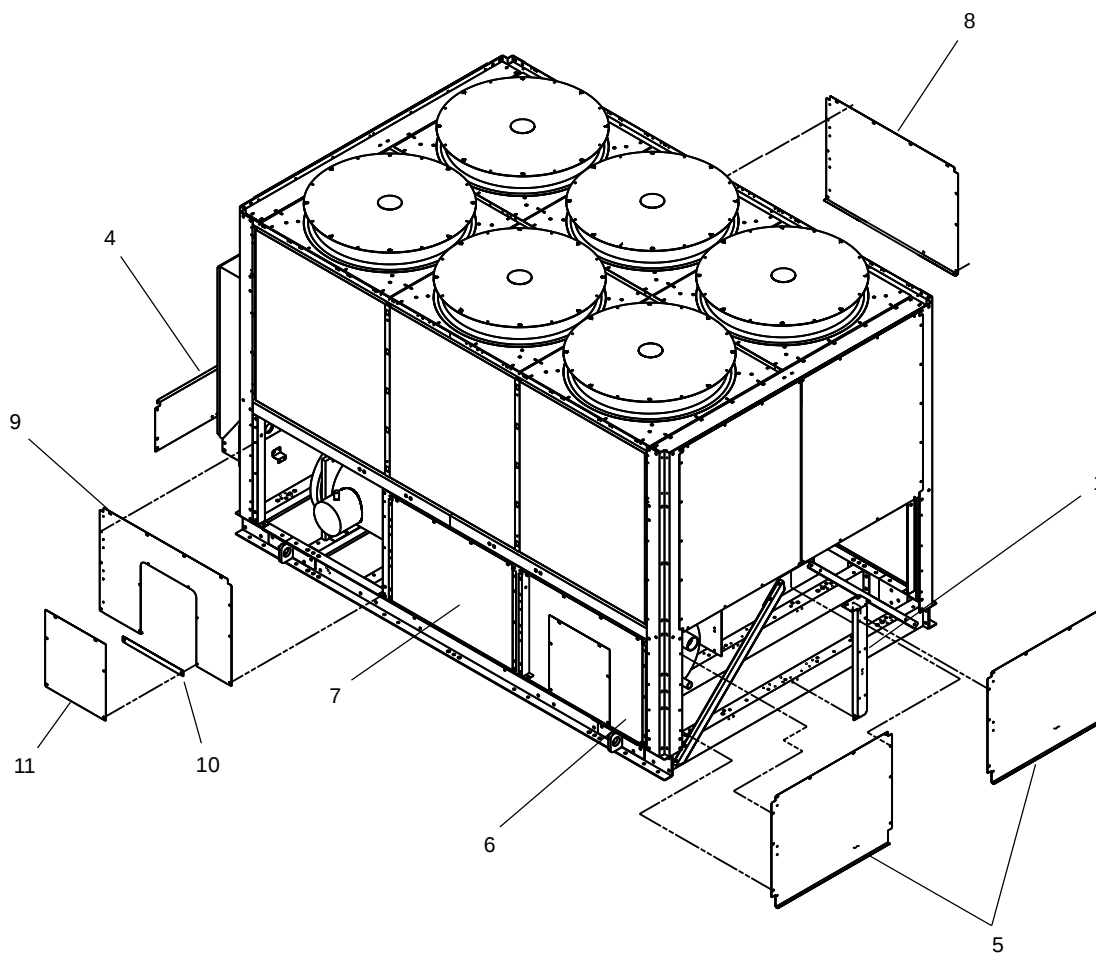
LD06223

FIG. 40 – TOP SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-100 IS SHOWN.

TABLE 36 – TOP SECTION - LOUVERED PANEL ENCLOSURE

| TOP KIT COMPONENTS 375-29571-100 AND 375-29571-120 |      |                       |               |               |
|----------------------------------------------------|------|-----------------------|---------------|---------------|
| ITEM NUMBER                                        | QTY. | DESCRIPTION           | 375-29571-100 | 375-29571-120 |
| 1                                                  | 2    | PANEL LOUVER          | 075-29068-000 | 075-29580-000 |
| 2                                                  | 4    | PANEL LOUVER          | 075-29069-000 | 075-29580-000 |
| 3                                                  | 2    | Z CHANNEL             | 075-29588-000 | 075-29572-000 |
| 4                                                  | 4    | Z CHANNEL TAMPERPROOF | 075-29089-000 | 075-29073-000 |
| Not Shown                                          | 1    | HARDWARE KIT          | 321-29571-100 | 321-29080-120 |

## LOUVERED ENCLOSURE BOTTOM SECTION SPARE PARTS BREAKDOWN



LD06224

**FIG. 41 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE - KIT NO. 375-29571-101 IS SHOWN.**

**TABLE 37 – BOTTOM SECTION - LOUVERED PANEL ENCLOSURE**

| BOTTOM KIT COMPONENTS 375-29571-101 AND 375-29080-121 |      |                          |               |               |
|-------------------------------------------------------|------|--------------------------|---------------|---------------|
| ITEM NUMBER                                           | QTY. | DESCRIPTION              | 375-29571-101 | 375-29080-121 |
| 1                                                     | 1    | REAR SUPPORT             | 075-29590-000 | 075-29590-000 |
| 2                                                     | 1    | PANEL VANITY RH          | N/A           | 075-29591-000 |
| 3                                                     | 1    | PANEL VANITY LH          | N/A           | 075-29592-000 |
| 4                                                     | 1    | TAMPERPROOF PANEL        | 075-29075-000 | 075-29075-000 |
| 5                                                     | 2    | LOUVERED PANEL REAR      | 075-29585-000 | 075-29585-000 |
| 6                                                     | 1    | LOUVERED PANEL DXST      | 075-29074-000 | 075-29583-000 |
| 7                                                     | 3    | LOUVERED PANEL DXST      | 075-29071-000 | 075-29581-000 |
| 8                                                     | 1    | LOUVERED PANEL DXST      | 075-35802-000 | 075-29581-000 |
| 9                                                     | 1    | LOUVERED PANEL DXST      | 075-29070-000 | 075-29582-000 |
| 10                                                    | 1    | WATER CONN COVER SUPPORT | 075-29587-000 | 075-29587-000 |
| 11                                                    | 1    | WATER CONN COVER         | 075-29586-000 | 075-29586-000 |
| Not Shown                                             | 1    | HARDWARE KIT             | 321-29571-101 | 321-29080-121 |

## RECOMMENDED SPARE PARTS

York Model YCAS Style F Air Cooled Screw Chillers  
Recommended Spare Parts List for Critical Duty Applications

All requests for parts should be made to your local YORK Sales And Service Center shown on inside back cover.

**TABLE 38 – SPARE PARTS**

| TABLE REF. & ITEM   | DESCRIPTION                   | PART<br>NUMBER  |
|---------------------|-------------------------------|-----------------|
| Tables 7-10, Item 5 | Filter / Drier (liquid line)  | 026-18328-000   |
| Tables 7&8, Item 1  | Valve, Thermal Expansion      | 025-32904-000   |
| Tables 9&10, Item 1 | Valve, Thermal Expansion      | 025-35757-000   |
| Table 21, Item 1    | Ambient Air Temp. Sensor      | 025-28663-001   |
| Table 21, Item 2    | Water Sensor (All)            | 025-29964-000   |
| Table 21, Item 5    | Suction Temp. Sensor          | 025-28935-000   |
| Table 21, Item 3    | Oil Temp. Sensor              | 025-30440-000   |
| Table 21, Item 4    | Discharge Temp. Sensor        | 025-32924-000   |
| Table 21, Item 6    | HP Cut-out (USA Std.)         | 025-30480-000   |
| Table 21, Item 7    | Suction Transducer            | 025-29583-000   |
| Table 23, Item 1C   | Suppressor                    | 031-00808-000   |
| Table 21, Item 8    | Discharge Transducer          | 025-29139-001   |
| Table 5&6, Item 1   | Fan Motor                     | See pages 10&11 |
| Table 5&6, Item 2   | Fan Blade                     | See pages 10&11 |
| Table 14, Item 50   | Oil filter cartridge          | 026-35601-000   |
| Table 14, Item 69   | O-ring for above filter       | 028-13849-000   |
| Table 14, Item Oil  | York Type L oil, POE, 5 gal.+ | 011-00592-000   |
| Table 15, Item 61   | Capacity Control Valve        | 025-33205-000   |
| Table 23, Item 3    | Motor Protector               | 024-30907-000   |

+ Type L oil is used with both R-22 and R-407C refrigerants.

- Chiller Paint, 12 oz. Spray  
TAJ3721037 Desert Tan

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