

# Hoshizaki America, Inc.

## Modular Crescent Cuber

### Models

KM-515MAH

KM-515MWH

KM-515MRH



“A Superior Degree  
of Reliability”

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## PARTS LIST



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## Auxiliary Codes

|                  |     |               |
|------------------|-----|---------------|
| <b>KM-515MAH</b> | S-0 | October 2007  |
|                  | T-0 | April 2008    |
|                  | U-1 | January 2009  |
|                  | U-2 | February 2009 |
|                  | U-3 | August 2009   |

|                  |     |               |
|------------------|-----|---------------|
| <b>KM-515MWH</b> | S-0 | November 2007 |
|                  | T-0 | February 2008 |
|                  | U-1 | January 2009  |
|                  | U-2 | February 2009 |
|                  | U-3 | August 2009   |

|                  |     |               |
|------------------|-----|---------------|
| <b>KM-515MRH</b> | S-0 | October 2007  |
|                  | T-0 | May 2008      |
|                  | T-1 | October 2008  |
|                  | U-1 | January 2009  |
|                  | U-2 | February 2009 |
|                  | U-3 | August 2009   |

## Auxiliary Code Breakdown

The auxiliary code is the first two characters in the serial number. The first character indicates the year. Years progress or regress in alphabetical order. The series runs from "A" through "V" and the letters "I" and "O" are skipped. The second character indicates significant part changes within a year. Base is "0" and this number advances for each change. In cases where there is a letter in parentheses, this designates the month. This is the last character in the serial number. The series runs from "(A)" through "(M)" and the letter "(I)" is skipped. This designation is only included when identifying a parts change within an auxiliary code.

## Note About Ordering Parts

Most assemblies cannot be ordered as complete units; parts in the assemblies generally must be ordered separately.

## Material Abbreviations

### ALUMINUM

AL = Aluminum

### COPPER

CU = Copper

### PLASTIC

ABS = Acrylonitrile -butadiene - styrene  
AC = Polyacetal  
EVA = Ethylene vinyl acetate  
PA = Polyamide = Nylon  
PC = Polycarbonate  
PE = Polyethylene  
PES = Polyester  
PETP = Polyethylene terephthalate = Tetlon  
PP = Polypropylene  
PS = Polystyrene  
PTFE = Polytetrafluoroethylene = Teflon  
PUR = Polyurethane  
PVC = Polyvinyl chloride

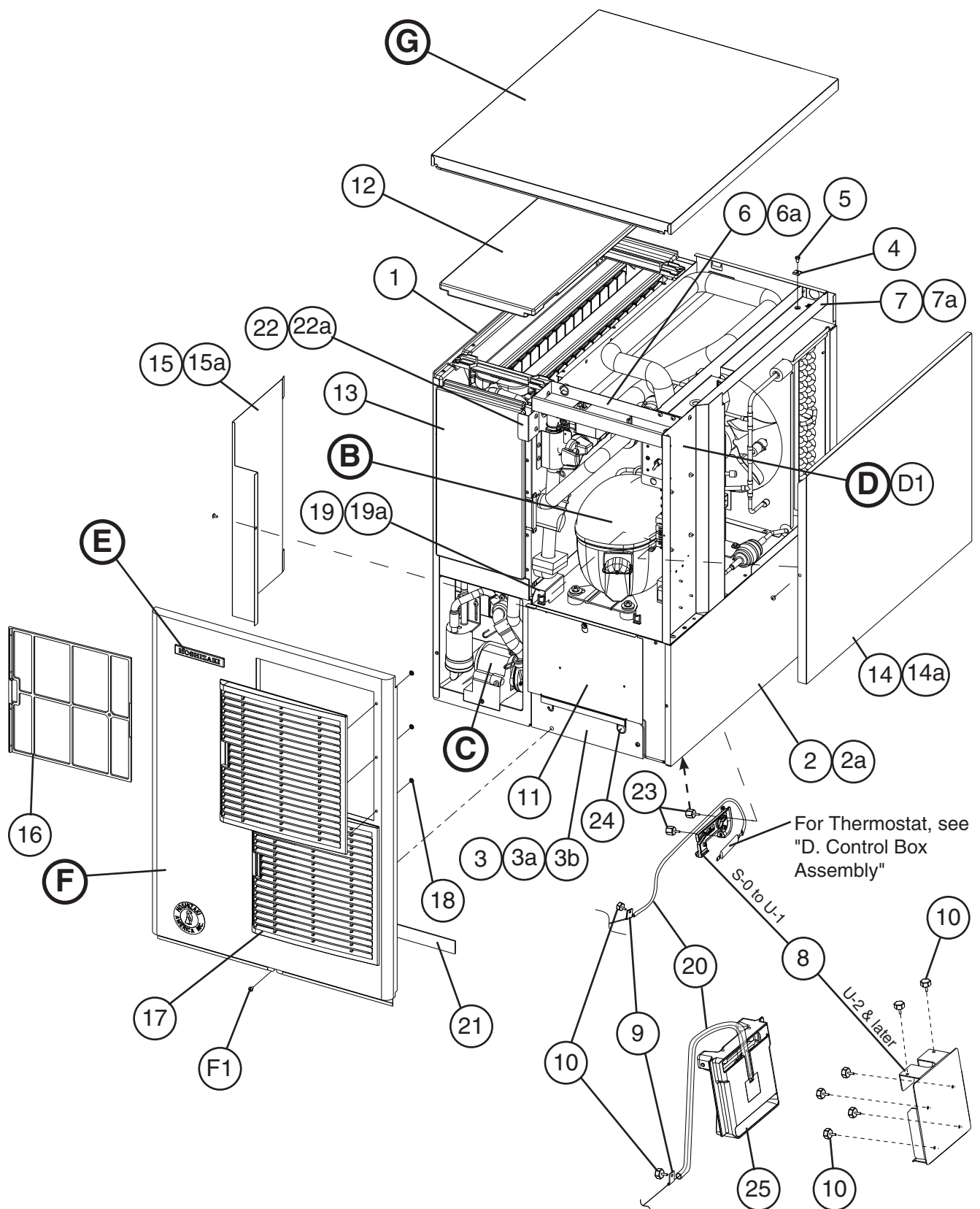
### RUBBER

VN = Vinyl Nitrile  
EPDM = EP rubber  
NBR = Nitrile butadiene rubber  
NR = Natural rubber  
NP = Neoprene  
SI.R = Silicone rubber  
SY.R = Synthetic rubber  
EPH = Epichlorohydrin

### STEEL

GS = Galvanized steel  
SS = Stainless steel  
PS = Plated steel  
PAS = Primed steel

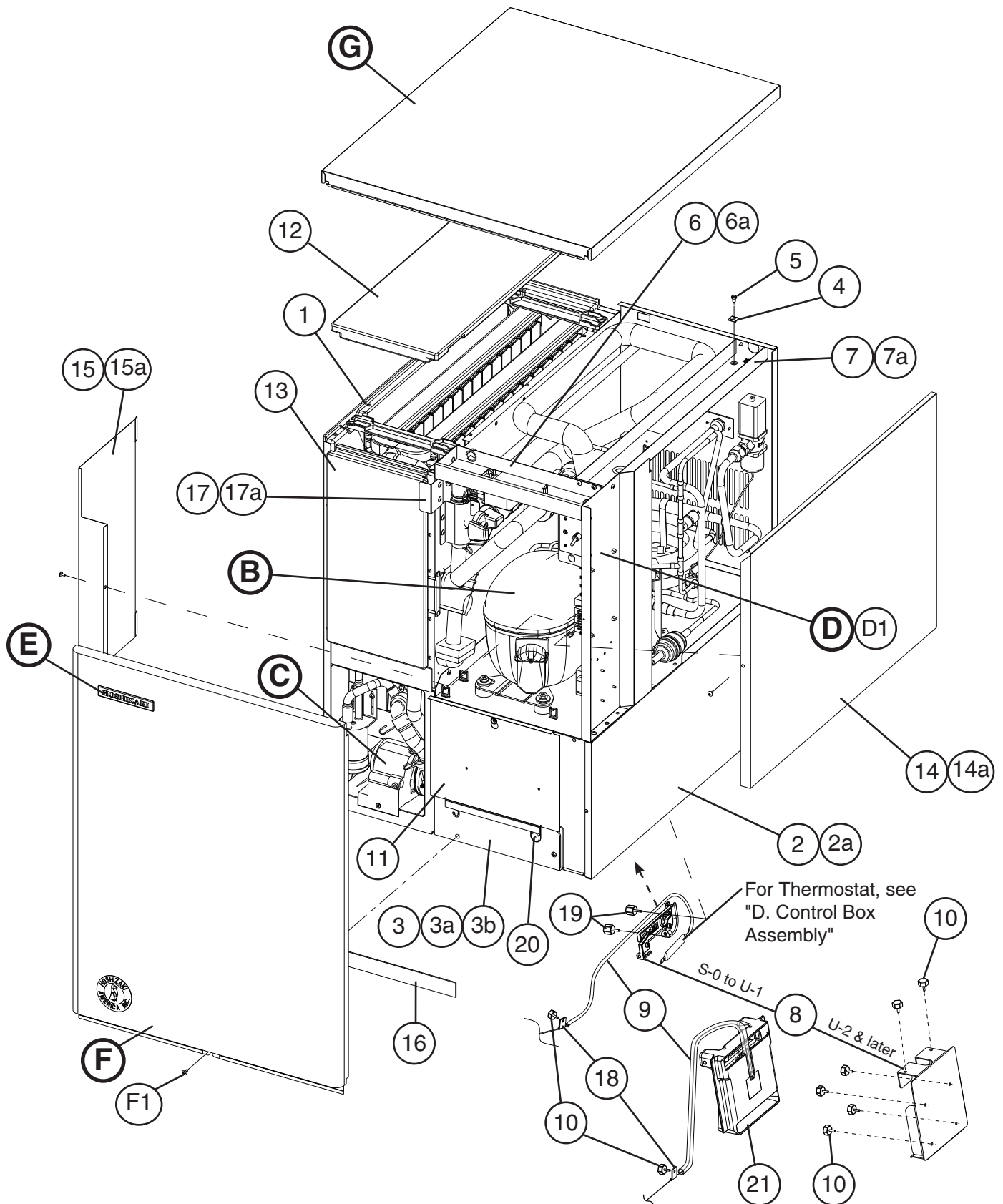
# **A. Ice Cuber Assembly** **KM-515MAH** S-0 to U-3



| Title: <b>A. Ice Cuber Assembly</b> Model: <b>KM-515MAH</b> |                          |                          |             |                     |                   |     |     |  |  |  |  |  |
|-------------------------------------------------------------|--------------------------|--------------------------|-------------|---------------------|-------------------|-----|-----|--|--|--|--|--|
| Index No.                                                   | Description              | Material or Model Number | Part Number | Required Number     |                   |     |     |  |  |  |  |  |
|                                                             |                          |                          |             | S-0<br>T-0<br>(A-L) | T-0<br>(M)<br>U-1 | U-2 | U-3 |  |  |  |  |  |
| B                                                           | Refrigeration Circuit    | -                        | 1A1406A01   | 1                   | -                 |     |     |  |  |  |  |  |
|                                                             |                          |                          | 1A1639A01   |                     | 1                 | 1   | 1   |  |  |  |  |  |
| C                                                           | Water Circuit            | -                        | 1A0283A05   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| D                                                           | Control Box Assembly     | -                        | 2A4374A01   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          |                          | 2A4374A03   |                     |                   | 1   | 1   |  |  |  |  |  |
| D1                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 4                   | 4                 | 4   | 4   |  |  |  |  |  |
| E                                                           | Label Location           | -                        | 3A4597A01   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          |                          | 3A5038A01   |                     |                   | 1   | -   |  |  |  |  |  |
|                                                             |                          |                          | 3A5561A01   |                     |                   |     | 1   |  |  |  |  |  |
| F                                                           | Front Panel Assembly     | SS                       | 2A3767G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| F1                                                          | Truss Head Screw         | 4x8, SS                  | 7C32-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| G                                                           | Top Panel Assembly       | SS                       | 3A3878A01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
|                                                             |                          |                          |             |                     |                   |     |     |  |  |  |  |  |
| 1                                                           | Evaporator Case          | -                        | 1A0579G06   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 2                                                           | Base                     | -                        | 2A2146G12   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          |                          | 2A4319G07   |                     |                   | 1   | 1   |  |  |  |  |  |
| 2a                                                          | FT Screw                 | 4x8                      | 7F31-0408   | 7                   | 7                 | 7   | 7   |  |  |  |  |  |
| 3                                                           | Frame                    | -                        | 3A2503G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 3a                                                          | Truss Head Screw         | 4x8, SS                  | 7C32-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 3b                                                          | Truss Head Screw         | 4x25, SS                 | 7C32-0425   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 4                                                           | Square Washer            | BRASS                    | 433537-02   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 5                                                           | Screw-Grounding          | BRASS                    | 433304-02   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 6                                                           | Top Frame                | GS                       | 3A3741-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 6a                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 4                   | 4                 | 4   | 4   |  |  |  |  |  |
| 7                                                           | Side Frame               | GS                       | 3A2782-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 7a                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 8                                                           | Bulb Holder              | -                        | 3A3903-01   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             | Bin Control Switch Mount |                          | 3A4463-01   |                     |                   | 1   | 1   |  |  |  |  |  |
| 9                                                           | Strap                    | -                        | 435487-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 10                                                          | Thumbscrew               | SS, ABS                  | 415949G10   | 1                   | 1                 | 7   | 7   |  |  |  |  |  |
| 11                                                          | Base Cover               | SS                       | 321525G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 12                                                          | Top Insulation           | PP                       | 215730G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 13                                                          | Front Insulation         | PP                       | 215731G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 14                                                          | Side Panel (R)           | SS                       | 2A2117G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 14a                                                         | T2 Screw                 | 4x8, SS                  | 7P32-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 15                                                          | Control Box Cover        | GS                       | 3A2476-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 15a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 16                                                          | Air Filter (A)           | ABS                      | 2A2062G01   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 17                                                          | Louver (A)               | ABS                      | 1A0547-01   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 18                                                          | Push Retainer            | -                        | 4A2414-01   | 6                   | 6                 | 6   | 6   |  |  |  |  |  |
| 19                                                          | Barrier                  | GS                       | 4A0362-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 19a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 20                                                          | Silicone Hose            | L=380                    | 7730I3812   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          | L=325                    | 7730-1114   |                     |                   | 1   | -   |  |  |  |  |  |
| 21                                                          | Gasket                   | L=554                    | 4A0808L02   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 22                                                          | Barrier-Insulation       | GS                       | 4A1167-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 22a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |

| Title: <b>A. Ice Cuber Assembly</b> Model: <b>KM-515MAH</b> |                |                          |             |                     |                   |     |     |  |  |  |  |
|-------------------------------------------------------------|----------------|--------------------------|-------------|---------------------|-------------------|-----|-----|--|--|--|--|
| Index No.                                                   | Description    | Material or Model Number | Part Number | Required Number     |                   |     |     |  |  |  |  |
|                                                             |                |                          |             | S-0<br>T-0<br>(A-L) | T-0<br>(M)<br>U-1 | U-2 | U-3 |  |  |  |  |
| 23                                                          | Thumbscrew     | SS, ABS                  | 415949G11   | 2                   | 2                 | -   |     |  |  |  |  |
| 24                                                          | Capillary Ring | -                        | 425307-01   | 1                   | 1                 | 1   | -   |  |  |  |  |
|                                                             |                |                          | 425307-02   |                     |                   |     | 1   |  |  |  |  |
| 25                                                          | Bin Control    | -                        | 2A4393G01   |                     |                   | 1   | 1   |  |  |  |  |

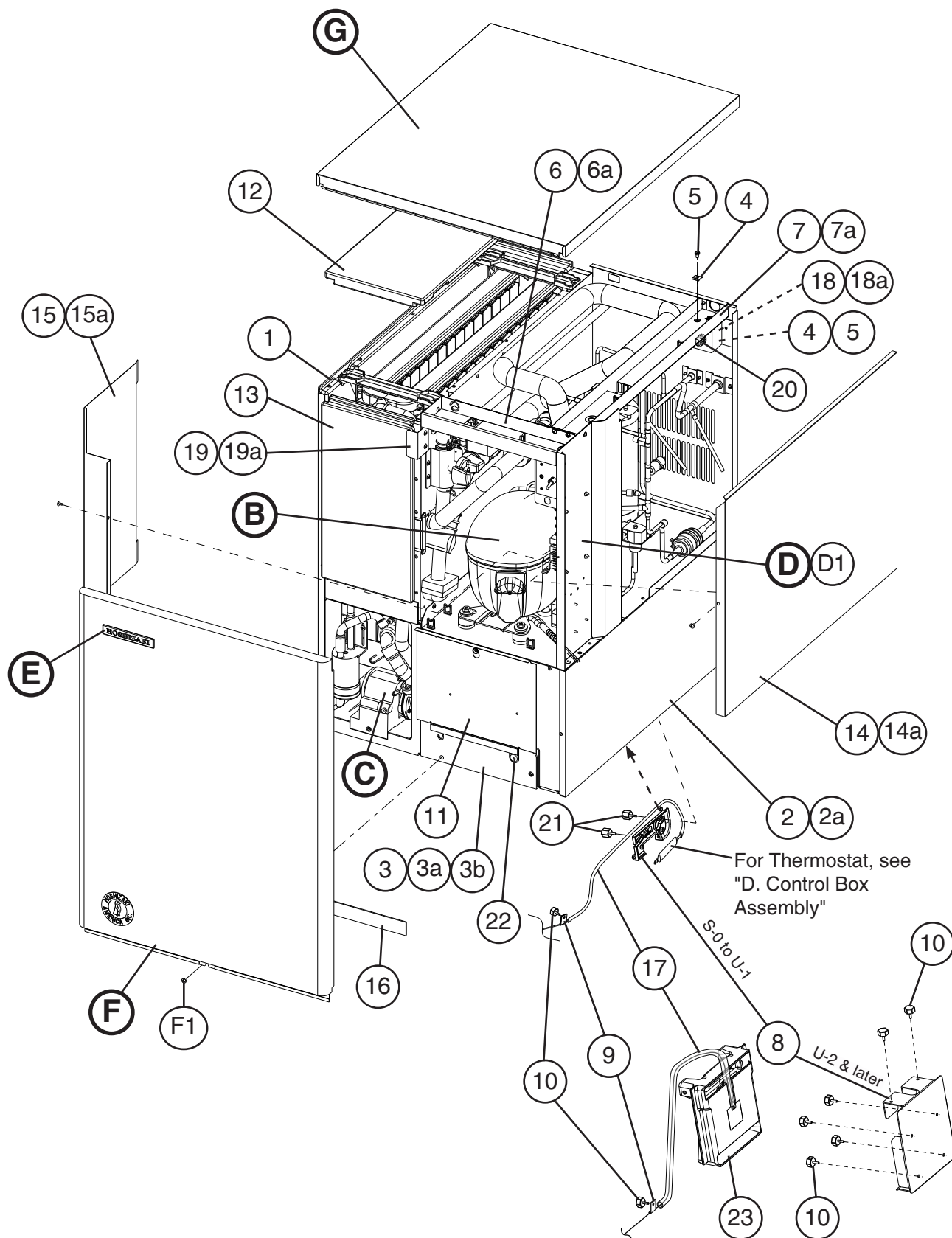
**A. Ice Cuber Assembly**  
**KM-515MWH**  
 S-0 to U-3





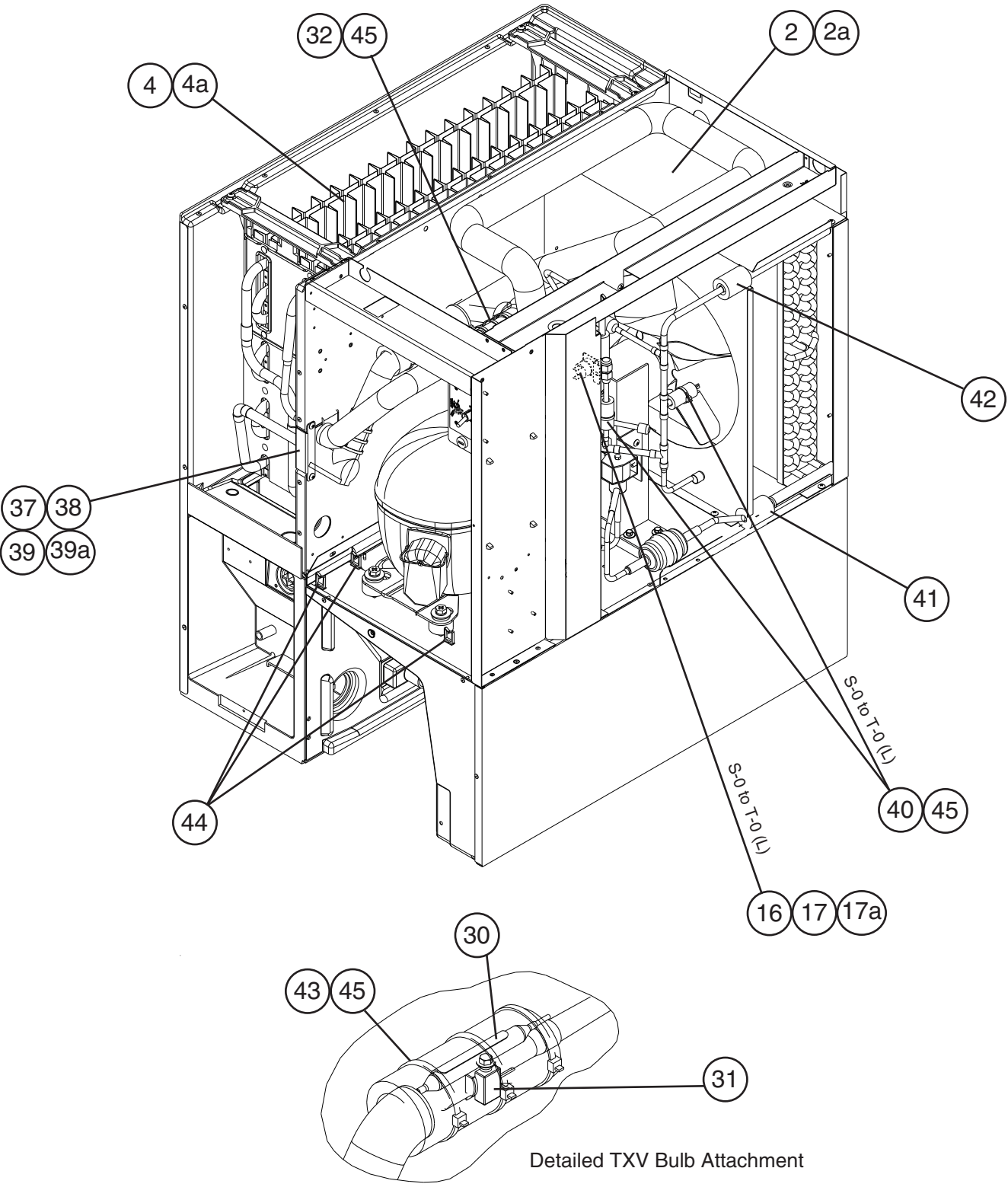
| Title: <b>A. Ice Cuber Assembly</b> Model: <b>KM-515MWH</b> |                          |                          |             |                     |                   |     |     |  |  |  |  |  |
|-------------------------------------------------------------|--------------------------|--------------------------|-------------|---------------------|-------------------|-----|-----|--|--|--|--|--|
| Index No.                                                   | Description              | Material or Model Number | Part Number | Required Number     |                   |     |     |  |  |  |  |  |
|                                                             |                          |                          |             | S-0<br>T-0<br>(A-L) | T-0<br>(M)<br>U-1 | U-2 | U-3 |  |  |  |  |  |
| B                                                           | Refrigeration Circuit    | -                        | 1A1408A01   | 1                   | -                 |     |     |  |  |  |  |  |
|                                                             |                          |                          | 1A1640A01   |                     | 1                 | 1   | 1   |  |  |  |  |  |
| C                                                           | Water Circuit            | -                        | 1A0283A05   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| D                                                           | Control Box Assembly     | -                        | 2A4374A02   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          |                          | 2A4374A04   |                     |                   | 1   | 1   |  |  |  |  |  |
| D1                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 4                   | 4                 | 4   | 4   |  |  |  |  |  |
| E                                                           | Label Location           | -                        | 3A4598A01   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          |                          | 3A5040A01   |                     |                   | 1   | -   |  |  |  |  |  |
|                                                             |                          |                          | 3A5562A01   |                     |                   |     | 1   |  |  |  |  |  |
| F                                                           | Front Panel Assembly     | SS                       | 2A2150G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| F1                                                          | Truss Head Screw         | 4x8, SS                  | 7C32-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| G                                                           | Top Panel Assembly       | SS                       | 3A3878A01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
|                                                             |                          |                          |             |                     |                   |     |     |  |  |  |  |  |
| 1                                                           | Evaporator Case          | -                        | 1A0579G06   | 1                   |                   |     |     |  |  |  |  |  |
| 2                                                           | Base                     | -                        | 2A2146G17   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          |                          | 2A4319G11   |                     |                   | 1   | 1   |  |  |  |  |  |
| 2a                                                          | FT Screw                 | 4x8                      | 7F31-0408   | 7                   | 7                 | 7   | 7   |  |  |  |  |  |
| 3                                                           | Frame                    | -                        | 3A2503G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 3a                                                          | Truss Head Screw         | 4x8, SS                  | 7C32-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 3b                                                          | Truss Head Screw         | 4x25, SS                 | 7C32-0425   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 4                                                           | Square Washer            | BRASS                    | 433537-02   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 5                                                           | Screw-Grounding          | BRASS                    | 433304-02   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 6                                                           | Top Frame                | GS                       | 3A3741-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 6a                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 4                   | 4                 | 4   | 4   |  |  |  |  |  |
| 7                                                           | Side Frame               | GS                       | 3A2782-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 7a                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 8                                                           | Bulb Holder              | -                        | 3A3903-01   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             | Bin Control Switch Mount |                          | 3A4463-01   |                     |                   | 1   | 1   |  |  |  |  |  |
| 9                                                           | Silicone Hose            | L=380                    | 773013812   | 1                   | 1                 | -   |     |  |  |  |  |  |
|                                                             |                          | L=325                    | 7730-1114   |                     |                   | 1   | -   |  |  |  |  |  |
| 10                                                          | Thumbscrew               | SS, ABS                  | 415949G10   | 1                   | 1                 | 7   | 7   |  |  |  |  |  |
| 11                                                          | Base Cover               | SS                       | 321525G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 12                                                          | Top Insulation           | PP                       | 215730G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 13                                                          | Front Insulation         | PP                       | 215731G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 14                                                          | Side Panel (R)           | SS                       | 2A2117G01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 14a                                                         | T2 Screw                 | 4x8, SS                  | 7P32-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 15                                                          | Control Box Cover        | GS                       | 3A2476-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 15a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 16                                                          | Gasket                   | L=554                    | 4A0808L02   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 17                                                          | Barrier-Insulation       | GS                       | 4A1167-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 17a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 2                   | 2                 | 2   | 2   |  |  |  |  |  |
| 18                                                          | Strap                    | -                        | 435487-01   | 1                   | 1                 | 1   | 1   |  |  |  |  |  |
| 19                                                          | Thumbscrew               | SS, ABS                  | 415949G11   | 2                   | 2                 | -   |     |  |  |  |  |  |
| 20                                                          | Capillary Ring           | -                        | 425307-01   | 1                   | 1                 | 1   | -   |  |  |  |  |  |
|                                                             |                          |                          | 425307-02   |                     |                   |     | 1   |  |  |  |  |  |
| 21                                                          | Bin Control              | -                        | 2A4393G01   |                     |                   | 1   | 1   |  |  |  |  |  |

# **A. Ice Cuber Assembly** **KM-515MRH** S-0 to U-3



| Title: <b>A. Ice Cuber Assembly</b> Model: <b>KM-515MRH</b> |                          |                          |             |                 |     |     |     |  |  |  |  |  |  |
|-------------------------------------------------------------|--------------------------|--------------------------|-------------|-----------------|-----|-----|-----|--|--|--|--|--|--|
| Index No.                                                   | Description              | Material or Model Number | Part Number | Required Number |     |     |     |  |  |  |  |  |  |
|                                                             |                          |                          |             | S-0 to T-1      | U-1 | U-2 | U-3 |  |  |  |  |  |  |
| B                                                           | Refrigeration Circuit    | -                        | 1A1410A01   | 1               | -   |     |     |  |  |  |  |  |  |
|                                                             |                          |                          | 1A1641A01   |                 | 1   | 1   | 1   |  |  |  |  |  |  |
| C                                                           | Water Circuit            | -                        | 1A0283A05   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| D                                                           | Control Box Assembly     | -                        | 2A4374A02   | 1               | 1   | -   |     |  |  |  |  |  |  |
|                                                             |                          |                          | 2A4374A04   |                 |     | 1   | 1   |  |  |  |  |  |  |
| D1                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 4               | 4   | 4   | 4   |  |  |  |  |  |  |
| E                                                           | Label Location           | -                        | 3A4599A01   | 1               | 1   | -   |     |  |  |  |  |  |  |
|                                                             |                          |                          | 3A5047A01   |                 |     | 1   | -   |  |  |  |  |  |  |
|                                                             |                          |                          | 3A5563A01   |                 |     |     | 1   |  |  |  |  |  |  |
| F                                                           | Front Panel Assembly     | SS                       | 2A2150G01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| F1                                                          | Truss Head Screw         | 4x8, SS                  | 7C32-0408   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| G                                                           | Top Panel Assembly       | SS                       | 3A3878A01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
|                                                             |                          |                          |             |                 |     |     |     |  |  |  |  |  |  |
| 1                                                           | Evaporator Case          | -                        | 1A0579G06   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 2                                                           | Base                     | -                        | 2A2146G14   | 1               | 1   | -   |     |  |  |  |  |  |  |
|                                                             |                          |                          | 2A4319G12   |                 |     | 1   | 1   |  |  |  |  |  |  |
| 2a                                                          | FT Screw                 | 4x8                      | 7F31-0408   | 7               | 7   | 7   | 7   |  |  |  |  |  |  |
| 3                                                           | Frame                    | -                        | 3A2503G01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 3a                                                          | Truss Head Screw         | 4x8, SS                  | 7C32-0408   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 3b                                                          | Truss Head Screw         | 4x25, SS                 | 7C32-0425   | 2               | 2   | 2   | 2   |  |  |  |  |  |  |
| 4                                                           | Square Washer            | BRASS                    | 433537-02   | 2               | 2   | 2   | 2   |  |  |  |  |  |  |
| 5                                                           | Screw-Grounding          | BRASS                    | 433304-02   | 2               | 2   | 2   | 2   |  |  |  |  |  |  |
| 6                                                           | Top Frame                | GS                       | 3A3741-01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 6a                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 4               | 4   | 4   | 4   |  |  |  |  |  |  |
| 7                                                           | Side Frame               | GS                       | 3A2782-01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 7a                                                          | T2 Screw                 | 4x8                      | 7P31-0408   | 2               | 2   | 2   | 2   |  |  |  |  |  |  |
| 8                                                           | Bulb Holder              | -                        | 3A3903-01   | 1               | 1   | -   |     |  |  |  |  |  |  |
|                                                             | Bin Control Switch Mount |                          | 3A4463-01   |                 |     | 1   | 1   |  |  |  |  |  |  |
| 9                                                           | Strap                    | -                        | 435487-01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 10                                                          | Thumbscrew               | SS, ABS                  | 415949G10   | 1               | 1   | 7   | 7   |  |  |  |  |  |  |
| 11                                                          | Base Cover               | SS                       | 321525G01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 12                                                          | Top Insulation           | PP                       | 215730G01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 13                                                          | Front Insulation         | PP                       | 215731G01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 14                                                          | Side Panel (R)           | SS                       | 2A2117G01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 14a                                                         | T2 Screw                 | 4x8, SS                  | 7P32-0408   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 15                                                          | Control Box Cover        | -                        | 3A2476-01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 15a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 16                                                          | Gasket                   | L=554                    | 4A0808L02   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 17                                                          | Silicone Hose            | L=380                    | 7730I3812   | 1               | 1   | -   |     |  |  |  |  |  |  |
|                                                             |                          | L=325                    | 7730-1114   |                 |     | 1   | -   |  |  |  |  |  |  |
| 18                                                          | Junction Box Cover       | GS                       | 433410-01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 18a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 19                                                          | Barrier-Insulation       | GS                       | 4A1167-01   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 19a                                                         | T2 Screw                 | 4x8                      | 7P31-0408   | 2               | 2   | 2   | 2   |  |  |  |  |  |  |
| 20                                                          | Bushing                  | SR-30-1                  | 420472-03   | 1               | 1   | 1   | 1   |  |  |  |  |  |  |
| 21                                                          | Thumbscrew               | SS, ABS                  | 415949G11   | 2               | 2   | -   |     |  |  |  |  |  |  |
| 22                                                          | Capillary Ring           | -                        | 425307-01   | 1               | 1   | 1   | -   |  |  |  |  |  |  |
|                                                             |                          |                          | 425307-02   |                 |     |     | 1   |  |  |  |  |  |  |
| 23                                                          | Bin Control              | -                        | 2A4393G01   |                 |     | 1   | 1   |  |  |  |  |  |  |

**B. Refrigeration Circuit**  
**1/2**  
**KM-515MAH**  
 S-0 to U-3

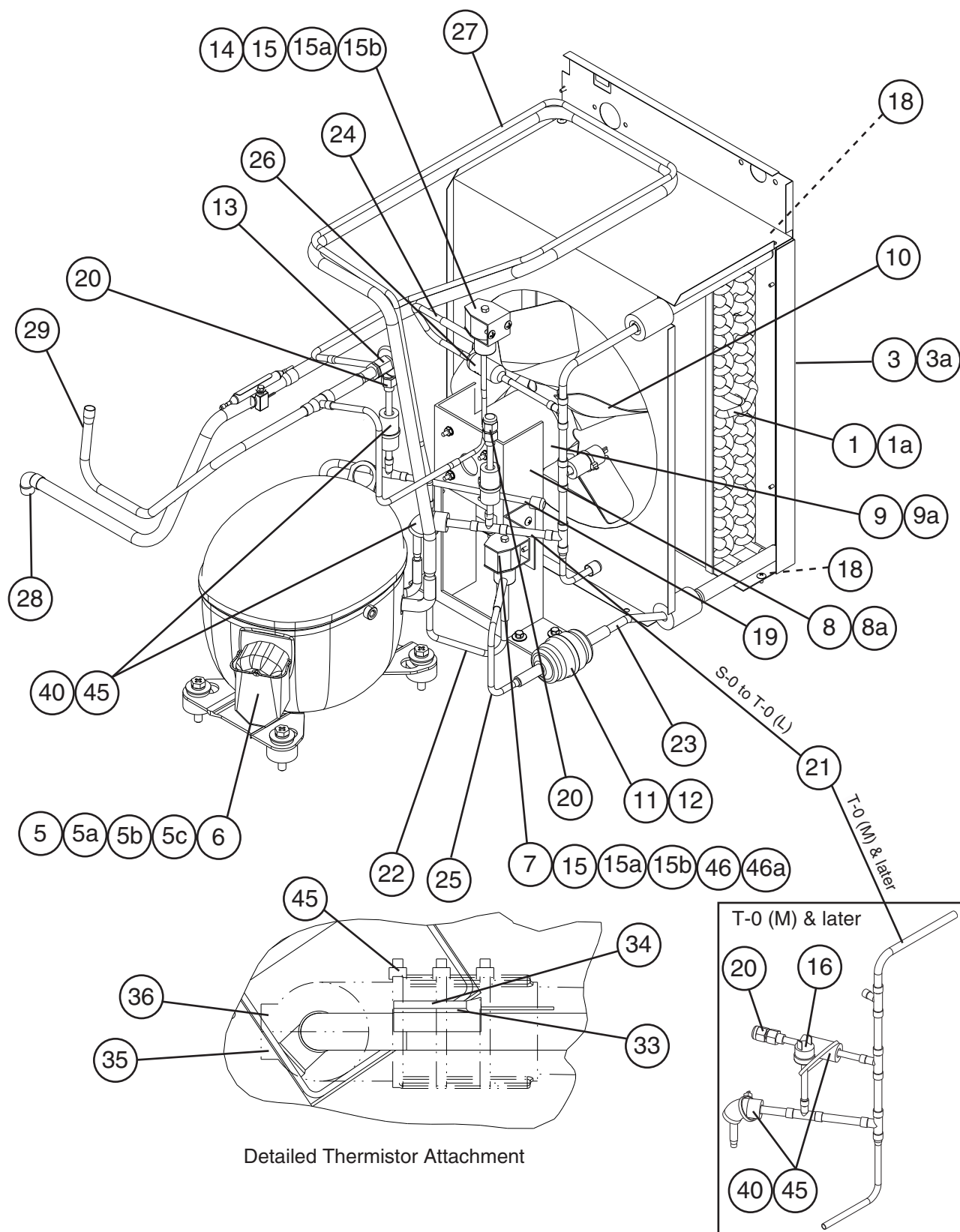


## B. Refrigeration Circuit

2/2

KM-515MAH

S-0 to U-3



| Title: <b>B. Refrigeration Circuit</b> Model: <b>KM-515MAH</b> |                                           |                          |             |                     |                         |  |  |  |  |  |  |
|----------------------------------------------------------------|-------------------------------------------|--------------------------|-------------|---------------------|-------------------------|--|--|--|--|--|--|
| Index No.                                                      | Description                               | Material or Model Number | Part Number | Required Number     |                         |  |  |  |  |  |  |
|                                                                |                                           |                          |             | S-0<br>T-0<br>(A-L) | T-0<br>(M)<br>to<br>U-3 |  |  |  |  |  |  |
| 1                                                              | Condenser                                 | -                        | 2A3756-01   | 1                   | 1                       |  |  |  |  |  |  |
| 1a                                                             | T2 Screw                                  | 4x8                      | 7P31-0408   | 2                   | 2                       |  |  |  |  |  |  |
| 2                                                              | Shroud                                    | GS                       | 2A3760-01   | 1                   | 1                       |  |  |  |  |  |  |
| 2a                                                             | T2 Screw                                  | 4x8                      | 7P31-0408   | 5                   | 5                       |  |  |  |  |  |  |
| 3                                                              | Barrier                                   | GS                       | 433693-04   | 1                   | 1                       |  |  |  |  |  |  |
| 3a                                                             | T2 Screw                                  | 4x8                      | 7P31-0408   | 2                   | 2                       |  |  |  |  |  |  |
| 4                                                              | Evaporator                                | -                        | 106492G01   | 1                   | 1                       |  |  |  |  |  |  |
| 4a                                                             | T2 Screw                                  | 4x16, SS                 | 7P32-0416   | 4                   | 4                       |  |  |  |  |  |  |
| 5                                                              | Compressor                                | RST55C1E-CAA-202         | 4A4376-01   | 1                   | 1                       |  |  |  |  |  |  |
| 5a                                                             | Bolt                                      | 8x45                     | 437889-01   | 4                   | 4                       |  |  |  |  |  |  |
| 5b                                                             | Spacer                                    | -                        | 4A2595-01   | 4                   | 4                       |  |  |  |  |  |  |
| 5c                                                             | Grommet                                   | -                        | 4A2593-01   | 4                   | 4                       |  |  |  |  |  |  |
| 6                                                              | Protector                                 | -                        | 4A2634-02   | 1                   | 1                       |  |  |  |  |  |  |
| 7                                                              | Valve Body-Liquid Line                    | -                        | 4A3276-01   | 1                   | 1                       |  |  |  |  |  |  |
| 8                                                              | Fan Motor Bracket                         | GS                       | 3A3859-01   | 1                   | 1                       |  |  |  |  |  |  |
| 8a                                                             | Hex Head Bolt W/Washer (LF)               | 5x12                     | 7B0130512   | 4                   | 4                       |  |  |  |  |  |  |
| 9                                                              | Fan Motor                                 | 5KCP84DFK148S            | 4A3158-01   | 1                   | 1                       |  |  |  |  |  |  |
| 9a                                                             | Self-locking Nut                          | NO. 8-32                 | 7N2110832   | 4                   | 4                       |  |  |  |  |  |  |
| 10                                                             | Fan Blade                                 | AD10EECW40               | 4A3959-01   | 1                   | 1                       |  |  |  |  |  |  |
| 11                                                             | Drier                                     | C-03E117                 | 4A2666-01   | 1                   | 1                       |  |  |  |  |  |  |
| 12                                                             | Nylon Tie                                 | -                        | 8911-0301   | 1                   | 1                       |  |  |  |  |  |  |
| 13                                                             | Expansion Valve                           | HFE-10NH DU-4            | 4A4008-01   | 1                   | 1                       |  |  |  |  |  |  |
| 14                                                             | Valve Body-Hot Gas                        | -                        | 4A3978-01   | 1                   | 1                       |  |  |  |  |  |  |
| 15                                                             | Coil-Valve                                |                          | 4A3277-01   | 2                   | 2                       |  |  |  |  |  |  |
| 15a                                                            | Bolt                                      | 4x6                      | 4A3277F01   | 2                   | 2                       |  |  |  |  |  |  |
| 15b                                                            | Truss Head Screw                          | 4x8                      | 7C31-0408   | 4                   | 4                       |  |  |  |  |  |  |
| 16                                                             | Pressure Switch                           | ACB-1UB09                | 433441-07   | 1                   | -                       |  |  |  |  |  |  |
|                                                                |                                           | ACB-1UB44                | 463180-04   |                     | 1                       |  |  |  |  |  |  |
| 17                                                             | Pressure Switch Bracket                   | -                        | 434938-01   | 1                   | -                       |  |  |  |  |  |  |
| 17a                                                            | T2 Screw                                  | 4x8                      | 7P31-0408   | 1                   | -                       |  |  |  |  |  |  |
| 18                                                             | Gasket                                    | L=245                    | 4A0808L02   | 2                   | 2                       |  |  |  |  |  |  |
| 19                                                             | Copper Tube Access Valve                  | COPPER                   | 3A3999G01   | 1                   | 1                       |  |  |  |  |  |  |
| 20                                                             | Access Valve                              | -                        | 457729-01   | 2                   | 2                       |  |  |  |  |  |  |
| 21                                                             | Copper Tube (A)-High Side                 | COPPER                   | 2A4385G02   | 1                   | -                       |  |  |  |  |  |  |
|                                                                |                                           |                          | 2A4808G2    |                     | 1                       |  |  |  |  |  |  |
| 22                                                             | Copper Tube (B)-High Side                 | COPPER                   | 4A3962-01   | 1                   | 1                       |  |  |  |  |  |  |
| 23                                                             | Copper Tube (C)-High Side                 | COPPER                   | 4A3961-01   | 1                   | 1                       |  |  |  |  |  |  |
| 24                                                             | Copper Tube (D)-High Side                 | COPPER                   | 3A3855G01   | 1                   | 1                       |  |  |  |  |  |  |
| 25                                                             | Copper Tube (E)-High Side                 | COPPER                   | 3A3905-01   | 1                   | 1                       |  |  |  |  |  |  |
| 26                                                             | Strainer (included in item 24: 3A3855G01) | -                        | 441569-01   | 1                   | 1                       |  |  |  |  |  |  |
| 27                                                             | Heat Exchanger                            | -                        | 2A4382G01   | 1                   | 1                       |  |  |  |  |  |  |
| 28                                                             | Elbow                                     | COPPER                   | 417395-03   | 1                   | 1                       |  |  |  |  |  |  |
| 29                                                             | Copper Tube-Hot Gas                       | COPPER                   | 2A4099G01   | 1                   | 1                       |  |  |  |  |  |  |
| 30                                                             | Holder/Expansion Valve-3/8                | SS                       | 3A0107-01   | 1                   | 1                       |  |  |  |  |  |  |
| 31                                                             | Clamp                                     | SS                       | 443461-02   | 1                   | 1                       |  |  |  |  |  |  |

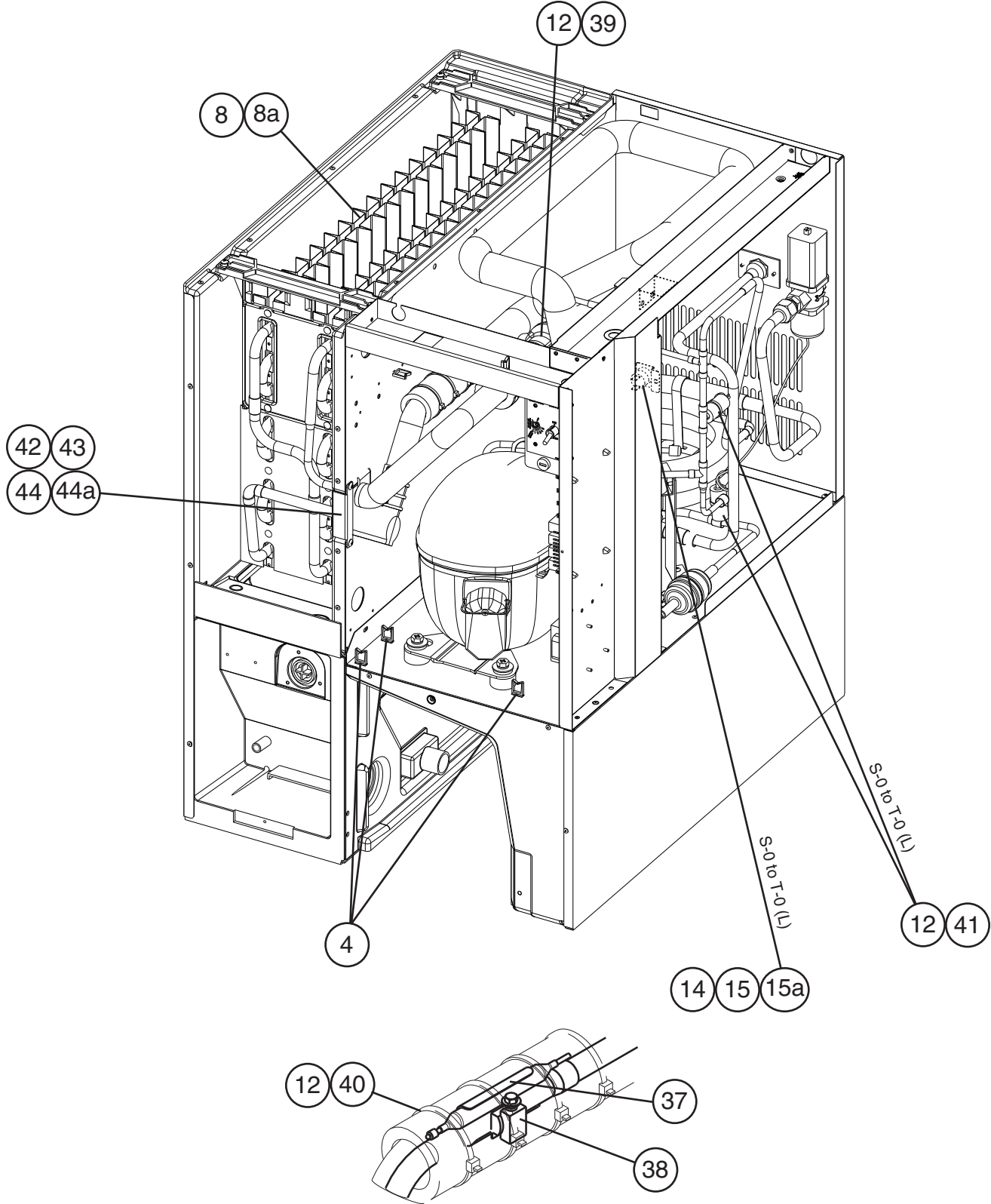
| Title: <b>B. Refrigeration Circuit</b> Model: <b>KM-515MAH</b> |                           |                          |             |                     |                         |  |  |  |  |  |  |
|----------------------------------------------------------------|---------------------------|--------------------------|-------------|---------------------|-------------------------|--|--|--|--|--|--|
| Index No.                                                      | Description               | Material or Model Number | Part Number | Required Number     |                         |  |  |  |  |  |  |
|                                                                |                           |                          |             | S-0<br>T-0<br>(A-L) | T-0<br>(M)<br>to<br>U-3 |  |  |  |  |  |  |
| 32                                                             | Expansion Valve Cover     | PE FOAM                  | 3A0944-01   | 1                   | 1                       |  |  |  |  |  |  |
| 33                                                             | Thermistor                | -                        | 429006-03   | 1                   | 1                       |  |  |  |  |  |  |
| 34                                                             | Holder-Thermistor         | COPPER                   | 427430-01   | 1                   | 1                       |  |  |  |  |  |  |
| 35                                                             | Insulation-Thermistor (A) | PE FOAM                  | 439368-01   | 1                   | 1                       |  |  |  |  |  |  |
| 36                                                             | Insulation-Thermistor (B) | PE FOAM                  | 439368-02   | 1                   | 1                       |  |  |  |  |  |  |
| 37                                                             | Rubber Insulation (A)     | EPDM                     | 3A1044-01   | 1                   | 1                       |  |  |  |  |  |  |
| 38                                                             | Rubber Insulation (B)     | EPDM                     | 3A1045-01   | 1                   | 1                       |  |  |  |  |  |  |
| 39                                                             | Insulation Holder         | -                        | 4A1550-01   | 1                   | 1                       |  |  |  |  |  |  |
| 39a                                                            | T2 Screw                  | 4x8, SS                  | 7P32-0408   | 2                   | 2                       |  |  |  |  |  |  |
| 40                                                             | Insulation Tube           | L=40                     | 7762-1020   | 4                   | 3                       |  |  |  |  |  |  |
| 41                                                             | Insulation Tube           | L=40                     | 7762-1030   | 1                   | 1                       |  |  |  |  |  |  |
| 42                                                             | Insulation Tube           | L=40                     | 7762-1630   | 1                   | 1                       |  |  |  |  |  |  |
| 43                                                             | Insulation Tube           | L=150                    | 7762-2943   | 1                   | 1                       |  |  |  |  |  |  |
| 44                                                             | Wire Saddle               | VWS4238-C                | 4A0338-02   | 8                   | 8                       |  |  |  |  |  |  |
| 45                                                             | Cable Tie                 | CV-200 (PLT-2M)          | 8911-0200   | 14                  | 13                      |  |  |  |  |  |  |
| 46                                                             | Line Valve Bracket        | -                        | 4A4011-01   | 1                   | 1                       |  |  |  |  |  |  |
| 46a                                                            | T2 Screw                  | 4x8                      | 7P31-0408   | 2                   | 2                       |  |  |  |  |  |  |

**B. Refrigeration Circuit**

**1/2**

**KM-515MWH**

S-0 to U-3



Detailed TXV Bulb Attachment

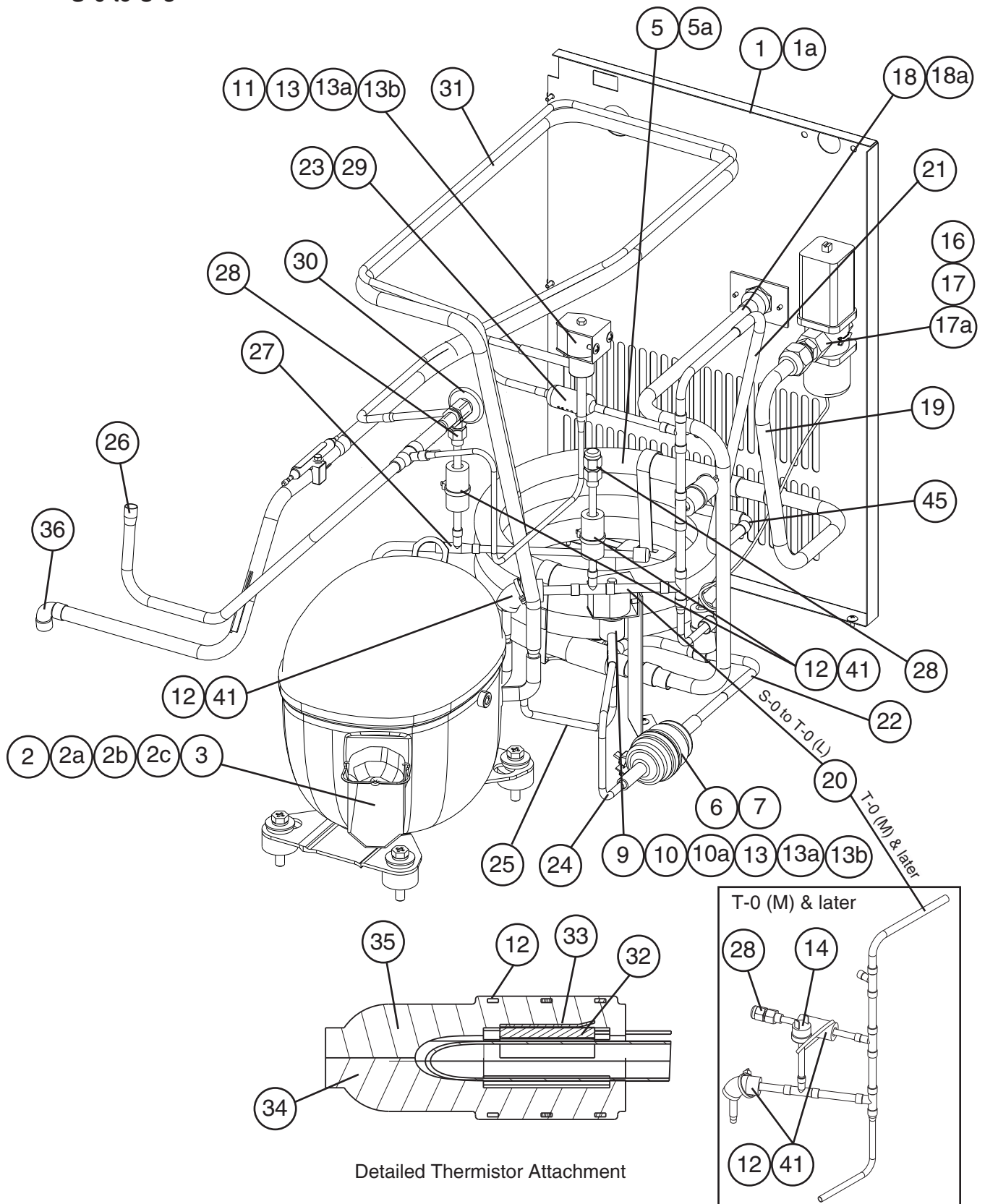


## B. Refrigeration Circuit

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KM-515MWH

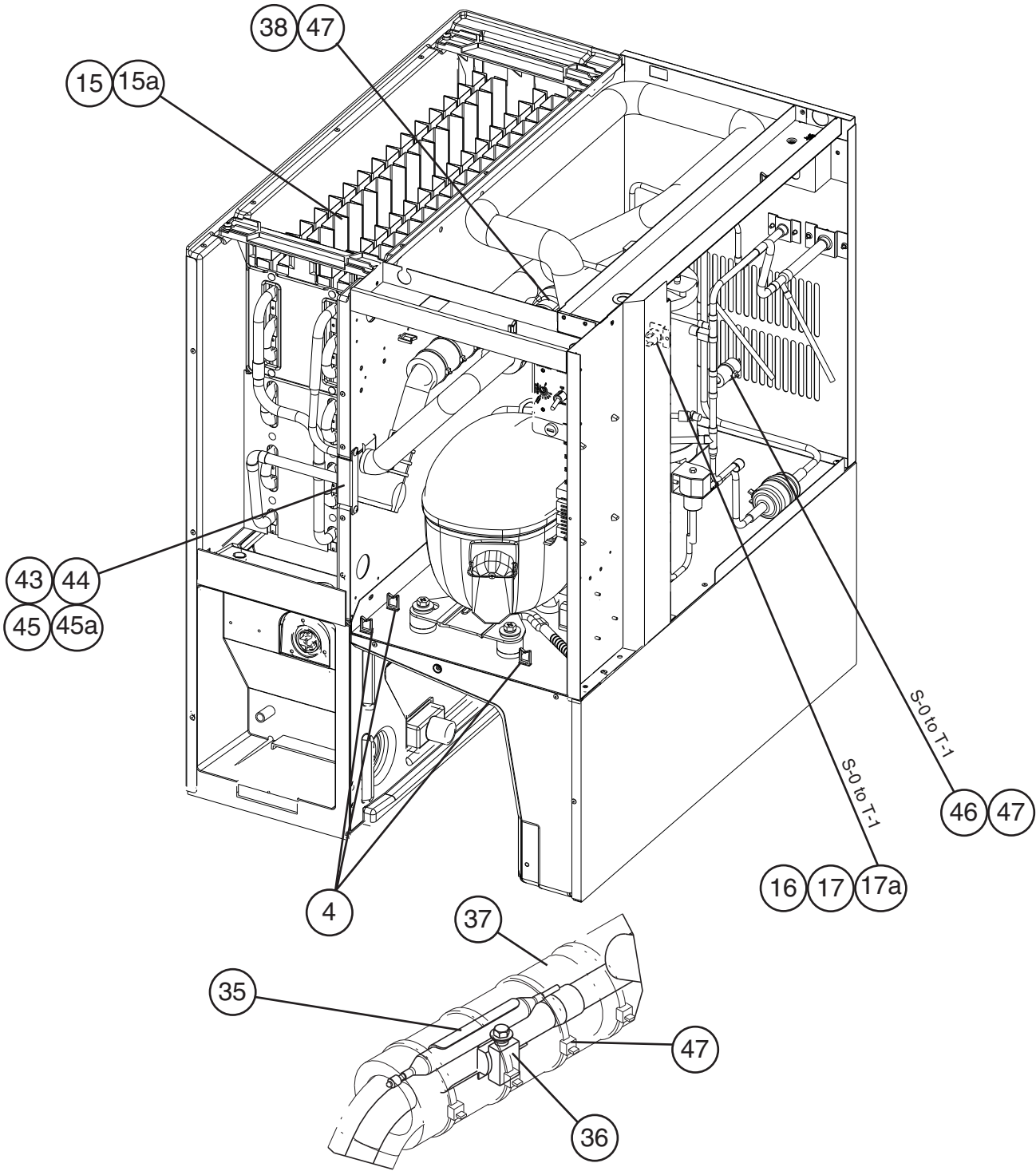
S-0 to U-3



| Title: <b>B. Refrigeration Circuit</b> Model: <b>KM-515MWH</b> |                                           |                          |             |                 |                |  |  |  |  |  |  |
|----------------------------------------------------------------|-------------------------------------------|--------------------------|-------------|-----------------|----------------|--|--|--|--|--|--|
| Index No.                                                      | Description                               | Material or Model Number | Part Number | Required Number |                |  |  |  |  |  |  |
|                                                                |                                           |                          |             | S-0 T-0 (A-L)   | T-0 (M) to U-3 |  |  |  |  |  |  |
| 1                                                              | Rear Panel                                | GS                       | 2A1426-01   | 1               | 1              |  |  |  |  |  |  |
| 1a                                                             | T2 Screw                                  | 4x8                      | 7P31-0408   | 5               | 5              |  |  |  |  |  |  |
| 2                                                              | Compressor                                | RST55C1E-CAA             | 4A4376-01   | 1               | 1              |  |  |  |  |  |  |
| 2a                                                             | Bolt                                      | 8x45                     | 437889-01   | 4               | 4              |  |  |  |  |  |  |
| 2b                                                             | Spacer                                    | -                        | 4A2595-01   | 4               | 4              |  |  |  |  |  |  |
| 2c                                                             | Grommet                                   | -                        | 4A2593-01   | 4               | 4              |  |  |  |  |  |  |
| 3                                                              | Protector                                 | -                        | 4A2634-02   | 1               | 1              |  |  |  |  |  |  |
| 4                                                              | Wire Saddle                               | -                        | 4A0338-02   | 8               | 8              |  |  |  |  |  |  |
| 5                                                              | Condenser-Water-Cooled                    | HS-0160                  | 2A2359G01   | 1               | 1              |  |  |  |  |  |  |
| 5a                                                             | Hex Head Bolt W/Washer (LF)               | 5x10                     | 7B0130510   | 2               | 2              |  |  |  |  |  |  |
| 6                                                              | Drier                                     | C-03E117                 | 4A2666-01   | 1               | 1              |  |  |  |  |  |  |
| 7                                                              | Nylon Tie                                 | NYLON                    | 8911-0301   | 1               | 1              |  |  |  |  |  |  |
| 8                                                              | Evaporator                                | -                        | 106492G01   | 1               | 1              |  |  |  |  |  |  |
| 8a                                                             | T2 Screw                                  | 4x16, SS                 | 7P32-0416   | 4               | 4              |  |  |  |  |  |  |
| 9                                                              | Valve Body-Liquid Line                    | -                        | 4A3276-01   | 1               | 1              |  |  |  |  |  |  |
| 10                                                             | Valve Bracket                             | -                        | 436893-01   | 1               | 1              |  |  |  |  |  |  |
| 10a                                                            | T2 Screw                                  | 4x8                      | 7P31-0408   | 2               | 2              |  |  |  |  |  |  |
| 11                                                             | Valve Body-Hot Gas                        | -                        | 4A3978-01   | 1               | 1              |  |  |  |  |  |  |
| 12                                                             | Cable Tie                                 | PLT-2M                   | 8911-0200   | 15              | 14             |  |  |  |  |  |  |
| 13                                                             | Coil-Valve                                | AMS-C12H DU-3            | 4A3277-01   | 2               | 2              |  |  |  |  |  |  |
| 13a                                                            | Bolt                                      | -                        | 4A3277F01   | 2               | 2              |  |  |  |  |  |  |
| 13b                                                            | Truss Head Screw                          | 4x8                      | 7C31-0408   | 4               | 4              |  |  |  |  |  |  |
| 14                                                             | Pressure Switch                           | ACB-2UB04                | 433441-05   | 1               | -              |  |  |  |  |  |  |
|                                                                |                                           | ACB-1UB43                | 463180-05   |                 | 1              |  |  |  |  |  |  |
| 15                                                             | Pressure Switch Bracket                   | GS                       | 434938-01   | 1               | -              |  |  |  |  |  |  |
| 15a                                                            | T2 Screw                                  | 4x8                      | 7P31-0408   | 1               | -              |  |  |  |  |  |  |
| 16                                                             | Male Connector                            | -                        | 4A1087-01   | 1               | 1              |  |  |  |  |  |  |
| 17                                                             | Water Regulator                           | V46DA-6                  | 4A0911-06   | 1               | 1              |  |  |  |  |  |  |
| 17a                                                            | Truss Head Screw                          | 4x6                      | 7C31-0406   | 2               | 2              |  |  |  |  |  |  |
| 18                                                             | Copper Tube (A)-Water Circuit             | COPPER                   | 3A1251G01   | 1               | 1              |  |  |  |  |  |  |
| 18a                                                            | T2 Screw                                  | 4x8                      | 7P31-0408   | 2               | 2              |  |  |  |  |  |  |
| 19                                                             | Copper Tube (B)-Water Circuit             | COPPER                   | 4A2681G01   | 1               | 1              |  |  |  |  |  |  |
| 20                                                             | Copper Tube (A)-High Side                 | COPPER                   | 2A4385G02   | 1               | -              |  |  |  |  |  |  |
|                                                                |                                           |                          | 2A4808G02   |                 | 1              |  |  |  |  |  |  |
| 21                                                             | Copper Tube (B)-High Side                 | COPPER                   | 3A2219-01   | 1               | 1              |  |  |  |  |  |  |
| 22                                                             | Copper Tube (C)-High Side                 | COPPER                   | 4A2682G01   | 1               | 1              |  |  |  |  |  |  |
| 23                                                             | Copper Tube (D)-High Side                 | COPPER                   | 3A3855G01   | 1               | 1              |  |  |  |  |  |  |
| 24                                                             | Copper Tube (E)-High Side                 | COPPER                   | 3A3541-01   | 1               | 1              |  |  |  |  |  |  |
| 25                                                             | Copper Tube (F)-High Side                 | COPPER                   | 4A3971-01   | 1               | 1              |  |  |  |  |  |  |
| 26                                                             | Copper Tube-Hot Gas                       | COPPER                   | 2A4387G01   | 1               | 1              |  |  |  |  |  |  |
| 27                                                             | Copper Tube-Access Valve                  | -                        | 3A3999G01   | 1               | 1              |  |  |  |  |  |  |
| 28                                                             | Access Valve                              | TCJ-2F20NH DU-1          | 457729-01   | 2               | 2              |  |  |  |  |  |  |
| 29                                                             | Strainer (Included in item 23: 3A3855G01) | -                        | 441569-01   | 1               | 1              |  |  |  |  |  |  |
| 30                                                             | Expansion Valve                           | HFE-10NH DU-4            | 4A4008-01   | 1               | 1              |  |  |  |  |  |  |

| Title: <b>B. Refrigeration Circuit</b> Model: <b>KM-515MWH</b> |                            |                          |             |                     |                         |  |  |  |  |  |  |  |
|----------------------------------------------------------------|----------------------------|--------------------------|-------------|---------------------|-------------------------|--|--|--|--|--|--|--|
| Index No.                                                      | Description                | Material or Model Number | Part Number | Required Number     |                         |  |  |  |  |  |  |  |
|                                                                |                            |                          |             | S-0<br>T-0<br>(A-L) | T-0<br>(M)<br>to<br>U-3 |  |  |  |  |  |  |  |
| 31                                                             | Heat Exchanger             | -                        | 2A4382G01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 32                                                             | Thermistor                 | -                        | 429006-03   | 1                   | 1                       |  |  |  |  |  |  |  |
| 33                                                             | Holder-Thermistor          | -                        | 427430-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 34                                                             | Insulation-Thermistor (A)  | PE FOAM                  | 439368-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 35                                                             | Insulation-Thermistor (B)  | PE FOAM                  | 439368-02   | 1                   | 1                       |  |  |  |  |  |  |  |
| 36                                                             | Elbow                      | COPPER                   | 417395-03   | 1                   | 1                       |  |  |  |  |  |  |  |
| 37                                                             | Holder/Expansion Valve-3/8 | -                        | 3A0107-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 38                                                             | Clamp                      | SS                       | 443461-02   | 1                   | 1                       |  |  |  |  |  |  |  |
| 39                                                             | Expansion Valve Cover      | PE FOAM                  | 3A0944-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 40                                                             | Insulation Tube            | L=150                    | 7762-2943   | 1                   | 1                       |  |  |  |  |  |  |  |
| 41                                                             | Insulation Tube            | L=40                     | 7762-1020   | 5                   | 4                       |  |  |  |  |  |  |  |
| 42                                                             | Rubber Insulation (A)      | EPDM                     | 3A1044-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 43                                                             | Rubber Insulation (B)      | EPDM                     | 3A1045-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 44                                                             | Insulation Holder          | -                        | 4A1550-01   | 1                   | 1                       |  |  |  |  |  |  |  |
| 44a                                                            | T2 Screw                   | 4x8, SS                  | 7P32-0408   | 2                   | 2                       |  |  |  |  |  |  |  |
| 45                                                             | Elbow                      | -                        | 417395-02   | 1                   | 1                       |  |  |  |  |  |  |  |

**B. Refrigeration Circuit**  
**1/2**  
**KM-515MRH**  
 S-0 to U-3



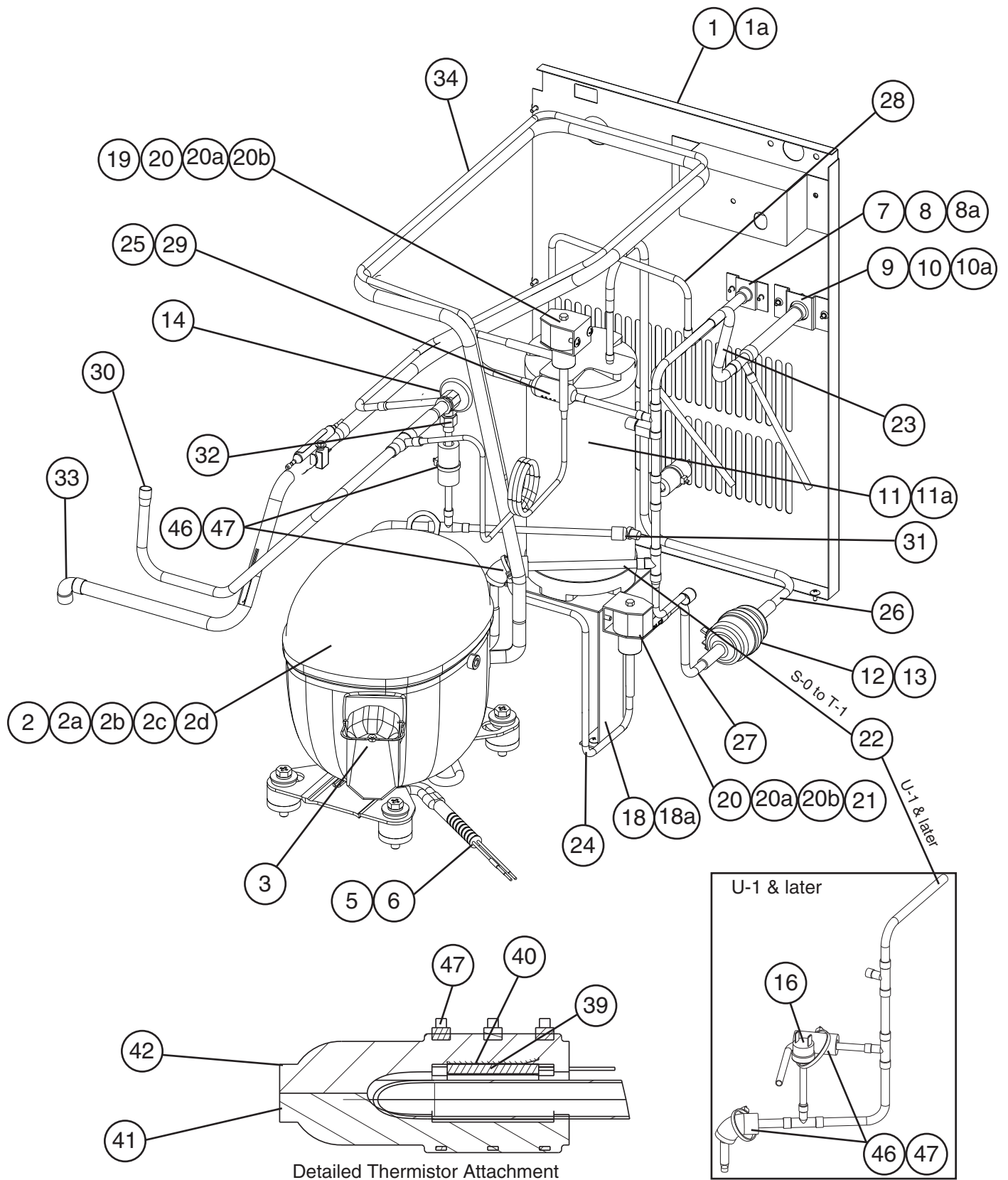
Detailed TXV Bulb Attachment

## B. Refrigeration Circuit

2/2

KM-515MRH

S-0 to U-3



Title: **B. Refrigeration Circuit** Model: **KM-515MRH**

| Index No. | Description                               | Material or Model Number | Part Number | Required Number |     |                  |  |  |  |  |  |
|-----------|-------------------------------------------|--------------------------|-------------|-----------------|-----|------------------|--|--|--|--|--|
|           |                                           |                          |             | S-0<br>T-0      | T-1 | U-1<br>to<br>U-3 |  |  |  |  |  |
| 1         | Rear Panel                                | GS                       | 220468G03   | 1               | 1   | 1                |  |  |  |  |  |
| 1a        | T2 Screw                                  | 4x8                      | 7P31-0408   | 5               | 5   | 5                |  |  |  |  |  |
| 2         | Compressor                                | RST55C1E-CAA-202         | 4A4376-01   | 1               | 1   | 1                |  |  |  |  |  |
| 2a        | Bolt                                      | 8x45                     | 437889-01   | 4               | 4   | 4                |  |  |  |  |  |
| 2b        | Spacer                                    | -                        | 4A2595-01   | 4               | 4   | 4                |  |  |  |  |  |
| 2c        | Grommet                                   | -                        | 4A2593-01   | 4               | 4   | 4                |  |  |  |  |  |
| 2d        | Washer                                    | -                        | 4A4409-01   | 4               | -   |                  |  |  |  |  |  |
| 3         | Protector                                 | -                        | 4A2634-02   | 1               | 1   | 1                |  |  |  |  |  |
| 4         | Wire Saddle                               | VWS4238-C                | 4A0338-02   | 9               | 9   | 9                |  |  |  |  |  |
| 5         | Crankcase Heater                          | -                        | 3A4663-01   | 1               | 1   | 1                |  |  |  |  |  |
| 6         | Retainer                                  | -                        | 4A4412-01   | 1               | 1   | 1                |  |  |  |  |  |
| 7         | Coupling                                  | -                        | 4A3972G01   | 1               | 1   | 1                |  |  |  |  |  |
| 8         | Tube Holder-S                             | -                        | 438246-01   | 1               | 1   | 1                |  |  |  |  |  |
| 8a        | T2 Screw                                  | 4x8                      | 7P31-0408   | 2               | 2   | 2                |  |  |  |  |  |
| 9         | Coupling                                  | -                        | 434136G01   | 1               | 1   | 1                |  |  |  |  |  |
| 10        | Tube Holder-L                             | -                        | 438245-01   | 1               | 1   | 1                |  |  |  |  |  |
| 10a       | T2 Screw                                  | 4x8                      | 7P31-0408   | 2               | 2   | 2                |  |  |  |  |  |
| 11        | Receiver Tank                             | RR KN WP450              | 437596-01   | 1               | 1   | 1                |  |  |  |  |  |
| 11a       | Hex Head Bolt W/Washer (LF)               | 5x10, SS                 | 7B0130510   | 3               | 3   | 3                |  |  |  |  |  |
| 12        | Drier                                     | C-03E117                 | 4A2666-01   | 1               | 1   | 1                |  |  |  |  |  |
| 13        | Nylon Tie                                 | -                        | 8911-0301   | 1               | 1   | 1                |  |  |  |  |  |
| 14        | Expansion Valve                           | HFE-10NHD-2              | 4A1414-01   | 1               | 1   | 1                |  |  |  |  |  |
| 15        | Evaporator                                | -                        | 106492G01   | 1               | 1   | 1                |  |  |  |  |  |
| 15a       | T2 Screw                                  | 4x16, SS                 | 7P32-0416   | 4               | 4   | 4                |  |  |  |  |  |
| 16        | Pressure Switch                           | ACB-1UB09                | 433441-07   | 1               | 1   | -                |  |  |  |  |  |
|           |                                           | ACB-1UB44                | 463180-04   |                 |     | 1                |  |  |  |  |  |
| 17        | Pressure Switch Bracket                   | GS                       | 434938-01   | 1               | 1   | -                |  |  |  |  |  |
| 17a       | T2 Screw                                  | 4x8                      | 7P31-0408   | 1               | 1   | -                |  |  |  |  |  |
| 18        | Valve Bracket                             | -                        | 436893-01   | 1               | 1   | 1                |  |  |  |  |  |
| 18a       | T2 Screw                                  | 4x8                      | 7P31-0408   | 2               | 2   | 2                |  |  |  |  |  |
| 19        | Valve Body-Hot Gas                        | 70                       | 4A3978-01   | 1               | 1   | 1                |  |  |  |  |  |
| 20        | Coil-Valve                                | AMS-C12HDU-3             | 4A3277-01   | 2               | 2   | 2                |  |  |  |  |  |
| 20a       | Bolt                                      | 4x6                      | 4A3277F01   | 2               | 2   | 2                |  |  |  |  |  |
| 20b       | Truss Head Screw                          | 4x8                      | 7C31-0408   | 4               | 4   | 4                |  |  |  |  |  |
| 21        | Valve Body-Liquid Line                    | -                        | 4A3276-01   | 1               | 1   | 1                |  |  |  |  |  |
| 22        | Copper Tube (A)-High Side                 | COPPER                   | 2A4385G01   | 1               | 1   | -                |  |  |  |  |  |
|           |                                           |                          | 2A4808G01   |                 |     | 1                |  |  |  |  |  |
| 23        | Copper Tube (B)-High Side                 | COPPER                   | 3A3867G01   | 1               | 1   | 1                |  |  |  |  |  |
| 24        | Copper Tube (C)-High Side                 | COPPER                   | 3A3973-01   | 1               | 1   | 1                |  |  |  |  |  |
| 25        | Copper Tube (D)-High Side                 | COPPER                   | 3A3855G01   | 1               | 1   | 1                |  |  |  |  |  |
| 26        | Copper Tube (E)-High Side                 | COPPER                   | 332445-01   | 1               | 1   | 1                |  |  |  |  |  |
| 27        | Copper Tube (F)-High Side                 | COPPER                   | 4A2768-01   | 1               | 1   | 1                |  |  |  |  |  |
| 28        | Copper Tube (G)-High Side                 | COPPER                   | 3A3868G01   | 1               | 1   | 1                |  |  |  |  |  |
| 29        | Strainer (Included in item 25: 3A3855G01) | -                        | 441569-01   | 1               | 1   | 1                |  |  |  |  |  |

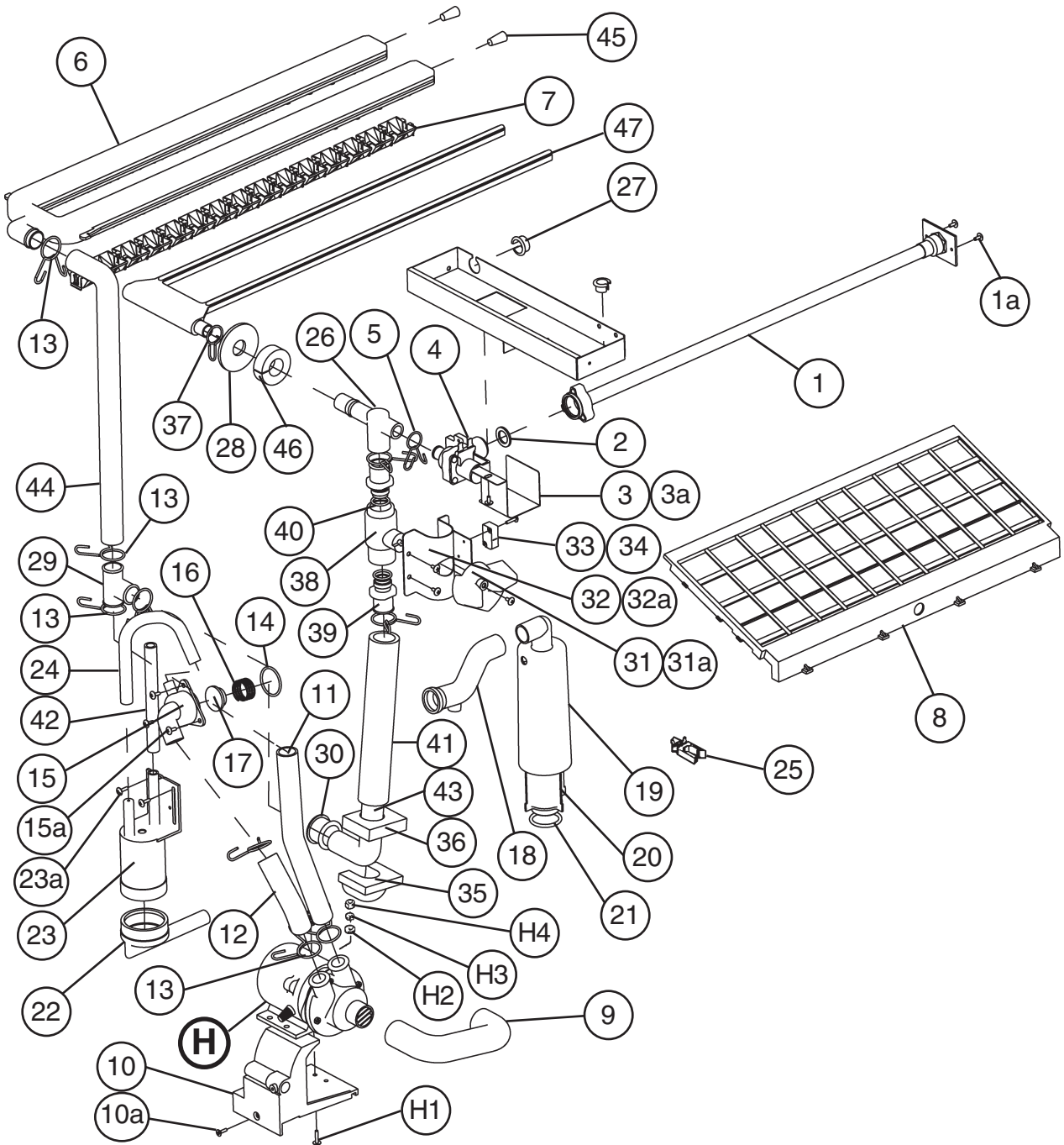
Title: **B. Refrigeration Circuit** Model: **KM-515MRH**

| Index No. | Description                | Material or Model Number | Part Number | Required Number |     |                  |  |  |  |  |  |
|-----------|----------------------------|--------------------------|-------------|-----------------|-----|------------------|--|--|--|--|--|
|           |                            |                          |             | S-0<br>T-0      | T-1 | U-1<br>to<br>U-3 |  |  |  |  |  |
| 30        | Copper Tube-Hot Gas        | COPPER                   | 2A4400G01   | 1               | 1   | 1                |  |  |  |  |  |
| 31        | Copper Tube-Access Valve   | COPPER                   | 3A3999G01   | 1               | 1   | 1                |  |  |  |  |  |
| 32        | Access Valve               | -                        | 457729-01   | 1               | 1   | 1                |  |  |  |  |  |
| 33        | Elbow                      | COPPER                   | 417395-03   | 1               | 1   | 1                |  |  |  |  |  |
| 34        | Heat Exchanger             | -                        | 2A4382G01   | 1               | 1   | 1                |  |  |  |  |  |
| 35        | Holder-Expansion Valve-3/8 | SS                       | 3A0107-01   | 1               | 1   | 1                |  |  |  |  |  |
| 36        | Clamp                      | -                        | 443461-02   | 1               | 1   | 1                |  |  |  |  |  |
| 37        | Insulation Tube            | L=150                    | 7762-2943   | 1               | 1   | 1                |  |  |  |  |  |
| 38        | Expansion Valve Cover      | PE FOAM                  | 3A0944-01   | 1               | 1   | 1                |  |  |  |  |  |
| 39        | Thermistor                 | -                        | 429006-03   | 1               | 1   | 1                |  |  |  |  |  |
| 40        | Holder-Thermistor          | COPPER                   | 427430-01   | 1               | 1   | 1                |  |  |  |  |  |
| 41        | Insulation-Thermistor (A)  | PE FOAM                  | 439368-01   | 1               | 1   | 1                |  |  |  |  |  |
| 42        | Insulation-Thermistor (B)  | PE FOAM                  | 439368-02   | 1               | 1   | 1                |  |  |  |  |  |
| 43        | Rubber Insulation (A)      | EPDM                     | 3A1044-01   | 1               | 1   | 1                |  |  |  |  |  |
| 44        | Rubber Insulation (B)      | EPDM                     | 3A1045-01   | 1               | 1   | 1                |  |  |  |  |  |
| 45        | Insulation Holder          | -                        | 4A1550-01   | 1               | 1   | 1                |  |  |  |  |  |
| 45a       | T2 Screw                   | 4x8, SS                  | 7P32-0408   | 2               | 2   | 2                |  |  |  |  |  |
| 46        | Insulation Tube            | L=40                     | 7762-1020   | 3               | 3   | 3                |  |  |  |  |  |
| 47        | Cable Tie                  | -                        | 8911-0200   | 13              | 13  | 13               |  |  |  |  |  |

## C. Water Circuit

### KM-515MAH, KM-515MWH, KM-515MRH

S-0 to U-3

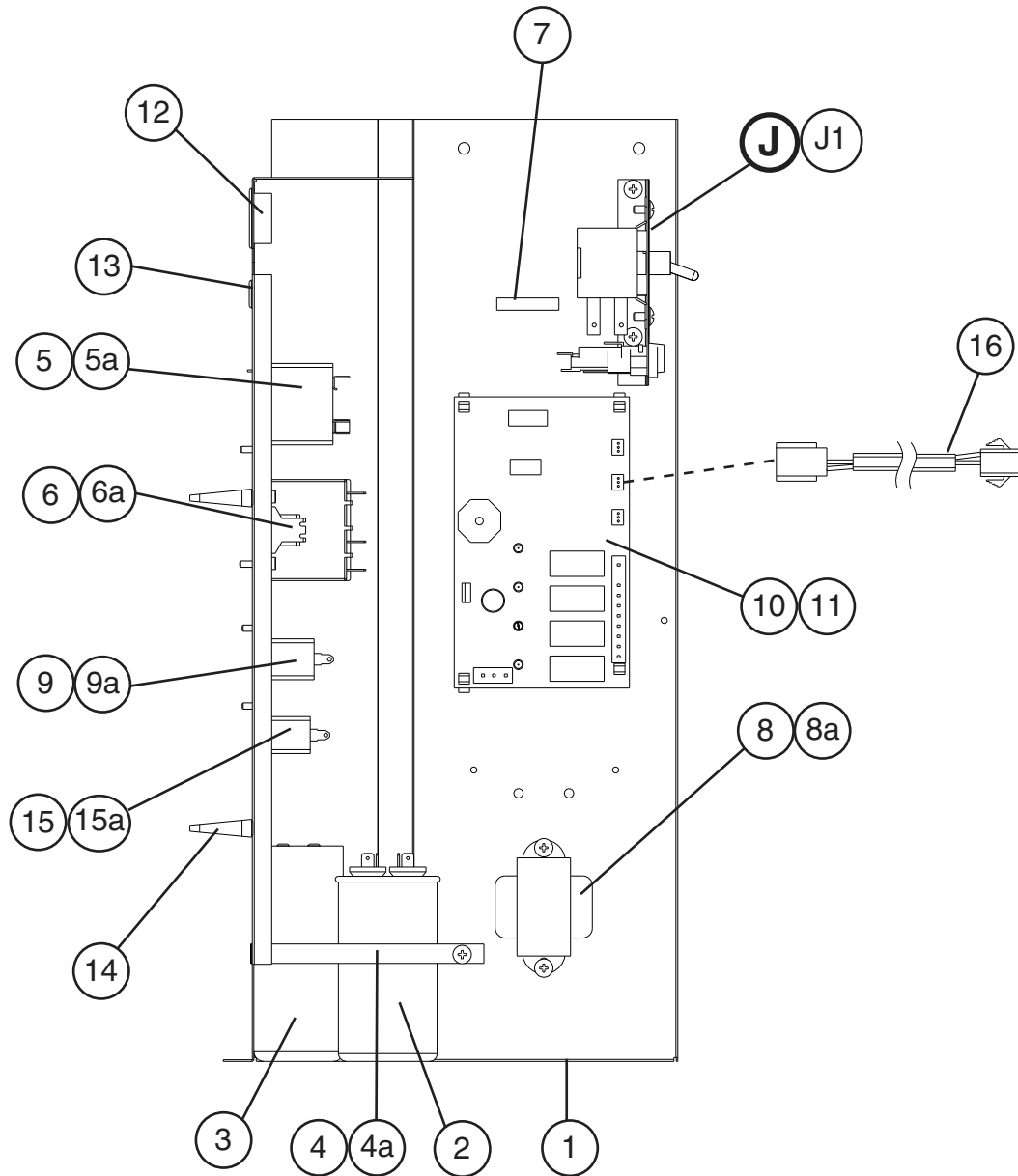




| Title: <b>C. Water Circuit</b> Model: <b>KM-515MAH, KM-515MWH, KM-515MRH</b> |                        |                          |             |                 |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------|------------------------|--------------------------|-------------|-----------------|--|--|--|--|--|--|--|--|
| Index No.                                                                    | Description            | Material or Model Number | Part Number | Required Number |  |  |  |  |  |  |  |  |
|                                                                              |                        |                          |             | S-0 to U-3      |  |  |  |  |  |  |  |  |
| H                                                                            | Pump Motor Assembly    | HS-0176                  | 3A2638A03   | 1               |  |  |  |  |  |  |  |  |
| H1                                                                           | Truss Head Screw       | 4x16, SS                 | 7C32-0416   | 1               |  |  |  |  |  |  |  |  |
| H2                                                                           | Flat Washer            | M4, SS                   | 7W22-0400   | 1               |  |  |  |  |  |  |  |  |
| H3                                                                           | Split Lock Washer      | M4, SS                   | 7L22-0400   | 1               |  |  |  |  |  |  |  |  |
| H4                                                                           | Hex Nut                | M4, SS                   | 7N12-0400   | 1               |  |  |  |  |  |  |  |  |
|                                                                              |                        |                          |             |                 |  |  |  |  |  |  |  |  |
| 1                                                                            | Water Supply Pipe      | COPPER                   | 4A0768G04   | 1               |  |  |  |  |  |  |  |  |
| 1a                                                                           | T2 Screw               | 4x8                      | 7P31-0408   | 2               |  |  |  |  |  |  |  |  |
| 2                                                                            | Rubber Gasket          | NR                       | 413854-03   | 1               |  |  |  |  |  |  |  |  |
| 3                                                                            | Water Valve Bracket    | GS                       | 321443-01   | 1               |  |  |  |  |  |  |  |  |
| 3a                                                                           | T2 Screw               | 4x8                      | 7P31-0408   | 1               |  |  |  |  |  |  |  |  |
| 4                                                                            | Water Valve            | J248-072                 | 3U0111-04   | 1               |  |  |  |  |  |  |  |  |
| 5                                                                            | Hose Clamp             | SS, 18MM                 | 427443-05   | 1               |  |  |  |  |  |  |  |  |
| 6                                                                            | Spray Tube             | PE                       | 1A0260-02   | 1               |  |  |  |  |  |  |  |  |
| 7                                                                            | Spray Guide (A)        | PE                       | 208586-01   | 6               |  |  |  |  |  |  |  |  |
| 8                                                                            | Cube Guide             | ABS                      | 212088-01   | 1               |  |  |  |  |  |  |  |  |
| 9                                                                            | Suction Hose           | EPDM                     | 433466-01   | 1               |  |  |  |  |  |  |  |  |
| 10                                                                           | Pump Motor Bracket     | PC                       | 211408-01   | 1               |  |  |  |  |  |  |  |  |
| 10a                                                                          | Flat Head Screw        | 4x12, SS                 | 7F32-0412   | 1               |  |  |  |  |  |  |  |  |
| 11                                                                           | Vinyl Hose             | L=250                    | 7716-2025   | 1               |  |  |  |  |  |  |  |  |
| 12                                                                           | Vinyl Hose             | L=110                    | 7716-2025   | 1               |  |  |  |  |  |  |  |  |
| 13                                                                           | Hose Clamp             | SS, 25MM                 | 427443-03   | 9               |  |  |  |  |  |  |  |  |
| 14                                                                           | "O" Ring               | 1AG35                    | 7611-G035   | 1               |  |  |  |  |  |  |  |  |
| 15                                                                           | Valve Housing-Drain    | ABS                      | 321001-01   | 1               |  |  |  |  |  |  |  |  |
| 15a                                                                          | T2 Screw               | 4x10, SS                 | 7P32-0410   | 3               |  |  |  |  |  |  |  |  |
| 16                                                                           | Spring                 | SS                       | 322110-01   | 1               |  |  |  |  |  |  |  |  |
| 17                                                                           | Valve Seat             | EPDM                     | 433705-01   | 1               |  |  |  |  |  |  |  |  |
| 18                                                                           | Drain Hose             | SANTO-PRENE              | 433468-01   | 1               |  |  |  |  |  |  |  |  |
| 19                                                                           | Overflow Cap           | PE                       | 321002-01   | 1               |  |  |  |  |  |  |  |  |
| 20                                                                           | Overflow Pipe          | ABS                      | 430722-03   | 1               |  |  |  |  |  |  |  |  |
| 21                                                                           | "O" Ring               | EPDM                     | 4A1234-01   | 1               |  |  |  |  |  |  |  |  |
| 22                                                                           | Connector-Float Switch | EPDM                     | 426799-01   | 1               |  |  |  |  |  |  |  |  |
| 23                                                                           | Float Switch           | -                        | 4A3624-01   | 1               |  |  |  |  |  |  |  |  |
| 23a                                                                          | T2 Screw               | 4x12, SS                 | 7P32-0412   | 2               |  |  |  |  |  |  |  |  |
| 24                                                                           | Silicone Hose          | L=140                    | 7730I3896   | 1               |  |  |  |  |  |  |  |  |
| 25                                                                           | Wire Saddle            | VWS4238-C                | 4A0338-02   | 4               |  |  |  |  |  |  |  |  |
| 26                                                                           | Tee                    | SANTO-PRENE              | 4A0177-01   | 1               |  |  |  |  |  |  |  |  |
| 27                                                                           | Bushing                | OCB-750                  | 428394-01   | 1               |  |  |  |  |  |  |  |  |
| 28                                                                           | Flange                 | EPDM                     | 439267-01   | 1               |  |  |  |  |  |  |  |  |
| 29                                                                           | Distributor            | EPDM                     | 432426-01   | 1               |  |  |  |  |  |  |  |  |
| 30                                                                           | Rubber Ring            | EPDM                     | 439236-01   | 1               |  |  |  |  |  |  |  |  |
| 31                                                                           | Handle                 | JH1352                   | 215383-01   | 1               |  |  |  |  |  |  |  |  |
| 31a                                                                          | T2 Screw               | 4x8                      | 7P31-0408   | 1               |  |  |  |  |  |  |  |  |
| 32                                                                           | Valve Holder           | GS                       | 3A1178-01   | 1               |  |  |  |  |  |  |  |  |
| 32a                                                                          | FT Screw               | 4x8                      | 7F31-0408   | 3               |  |  |  |  |  |  |  |  |

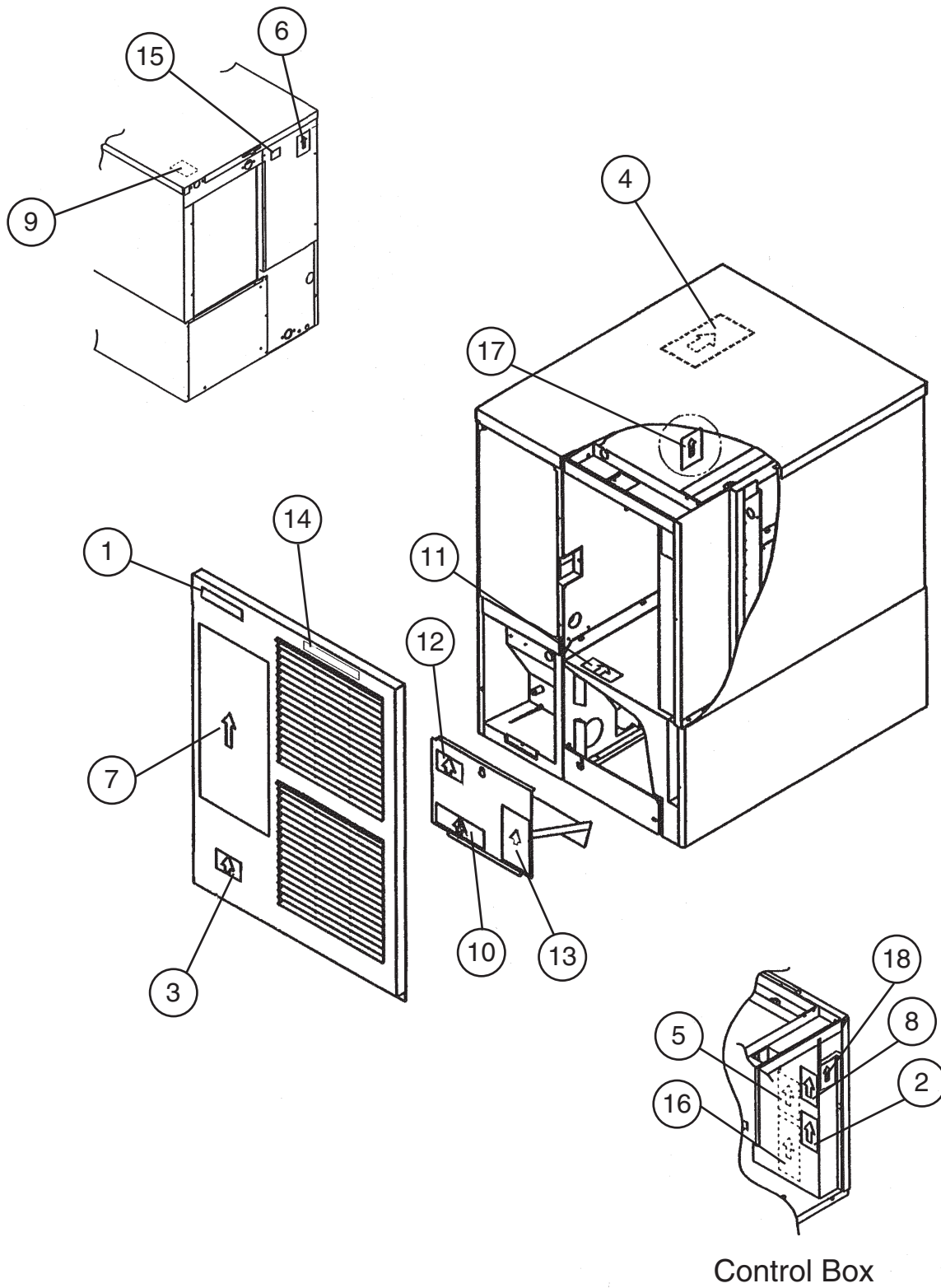
| Title: <b>C. Water Circuit</b> Model: <b>KM-515MAH, KM-515MWH, KM-515MRH</b> |                                   |                          |             |                 |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------|-----------------------------------|--------------------------|-------------|-----------------|--|--|--|--|--|--|--|--|
| Index No.                                                                    | Description                       | Material or Model Number | Part Number | Required Number |  |  |  |  |  |  |  |  |
|                                                                              |                                   |                          |             | S-0 to U-3      |  |  |  |  |  |  |  |  |
| 33                                                                           | Microswitch                       | -                        | 4A2546-01   | 1               |  |  |  |  |  |  |  |  |
| 34                                                                           | Tapping Screw                     | 3x14                     | 431415-02   | 2               |  |  |  |  |  |  |  |  |
| 35                                                                           | Corner Insulation (A)             | PE FOAM                  | 439376-01   | 1               |  |  |  |  |  |  |  |  |
| 36                                                                           | Corner Insulation (B)             | PE FOAM                  | 439392-01   | 1               |  |  |  |  |  |  |  |  |
| 37                                                                           | Hose Clamp                        | SS, 20 MM                | 427443-06   | 1               |  |  |  |  |  |  |  |  |
| 38                                                                           | Ball Valve (Included in S-0761)   | PVC                      | 439293-01   | 1               |  |  |  |  |  |  |  |  |
| 39                                                                           | Male Adaptor (Included in S-0761) | ABS                      | 325826-01   | 2               |  |  |  |  |  |  |  |  |
| 40                                                                           | "O" Ring (Included in S-0761)     | 1AP18                    | 7611-P018   | 2               |  |  |  |  |  |  |  |  |
| 41                                                                           | Insulation Tube                   | L=190                    | 7762-2636   | 1               |  |  |  |  |  |  |  |  |
| 42                                                                           | Silicone Hose                     | L=140                    | 7730I3812   | 1               |  |  |  |  |  |  |  |  |
| 43                                                                           | Rubber Hose (D)                   | EPDM                     | 4A1551-04   | 1               |  |  |  |  |  |  |  |  |
| 44                                                                           | Rubber Hose (C)                   | SANTO-PRENE              | 4A1551-03   | 1               |  |  |  |  |  |  |  |  |
| 45                                                                           | Plug                              | EPDM                     | 4A0176-01   | 2               |  |  |  |  |  |  |  |  |
| 46                                                                           | Insulation (E)                    | PE FOAM                  | 4A0392-01   | 1               |  |  |  |  |  |  |  |  |
| 47                                                                           | Water Supply Tube                 | PE                       | 2A0079-01   | 1               |  |  |  |  |  |  |  |  |

**D. Control Box Assembly**  
**KM-515MAH, KM-515MWH, KM-515MRH**  
 S-0 to U-3



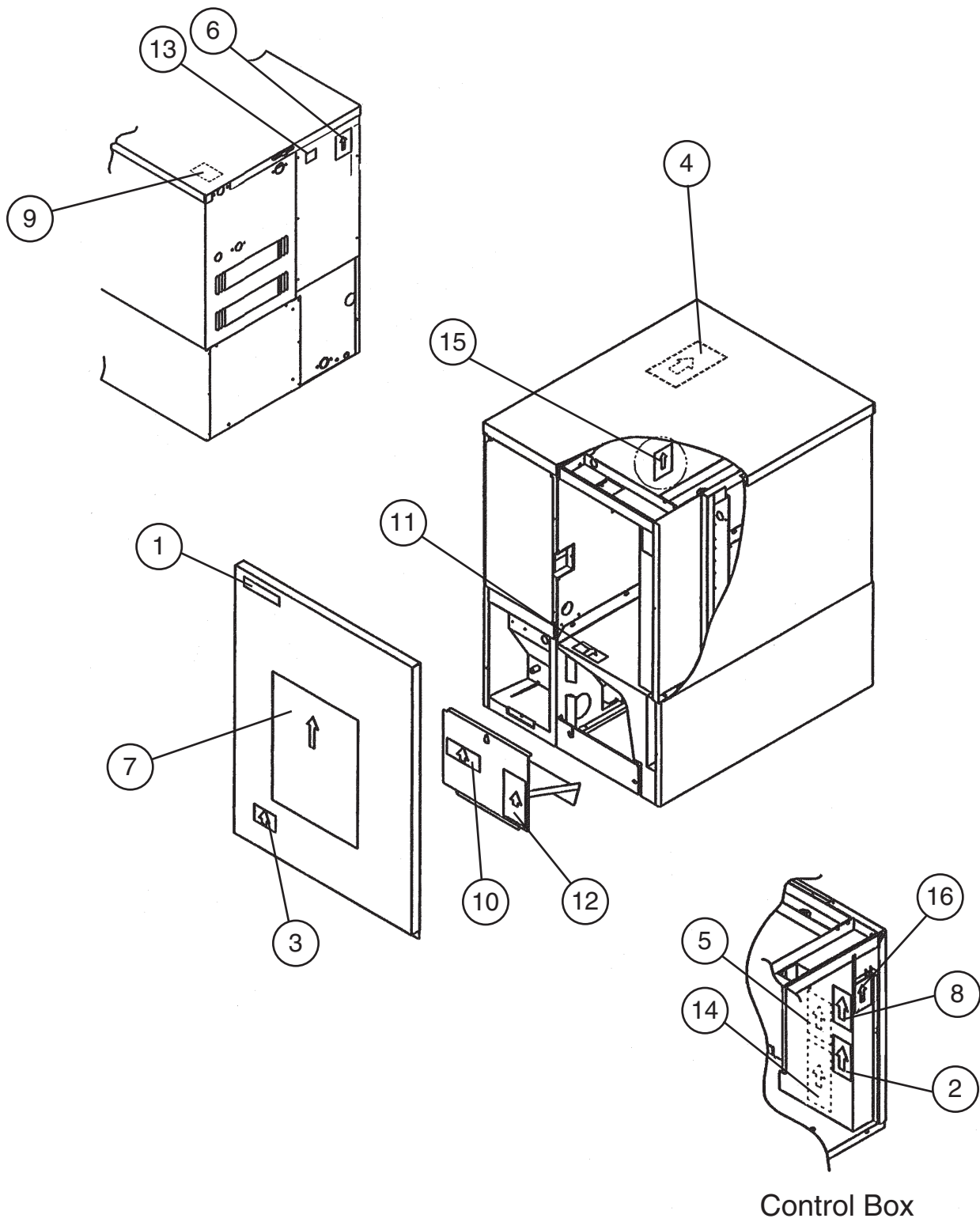
| Title: <b>D. Control Box Assembly</b> Model: <b>KM-515MAH, KM-515MWH, KM-515MRH</b> |                      |                                     |             |                 |         |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------|----------------------|-------------------------------------|-------------|-----------------|---------|--|--|--|--|--|--|--|
| Index No.                                                                           | Description          | Material or Model Number            | Part Number | Required Number |         |  |  |  |  |  |  |  |
|                                                                                     |                      |                                     |             | S-0 to U-1      | U-2 U-3 |  |  |  |  |  |  |  |
| J                                                                                   | Control Assembly     | -                                   | 4A2911A01   | 1               | -       |  |  |  |  |  |  |  |
|                                                                                     |                      |                                     | 4A4612A01   |                 | 1       |  |  |  |  |  |  |  |
| J1                                                                                  | T2 Screw             | 4x8                                 | 7P31-0408   | 2               | 2       |  |  |  |  |  |  |  |
|                                                                                     |                      |                                     |             |                 |         |  |  |  |  |  |  |  |
| 1                                                                                   | Control Box          | -                                   | 2A1851-01   | 1               | -       |  |  |  |  |  |  |  |
|                                                                                     |                      |                                     | 2A4865-01   |                 | 1       |  |  |  |  |  |  |  |
| 2                                                                                   | Capacitor-Run        | 35MFD, 440VAC                       | 3A2005-12   | 1               | 1       |  |  |  |  |  |  |  |
| 3                                                                                   | Capacitor-Starting   | 243-292MFD, 165V                    | 3A0076-20   | 1               | 1       |  |  |  |  |  |  |  |
| 4                                                                                   | Strap                | GS                                  | 4A2262-03   | 1               | 1       |  |  |  |  |  |  |  |
| 4a                                                                                  | T2 Screw             | 4x8                                 | 7P31-0408   | 1               | 1       |  |  |  |  |  |  |  |
| 5                                                                                   | Starter              | 3ARR3CT5M5                          | 4A1107-11   | 1               | 1       |  |  |  |  |  |  |  |
| 5a                                                                                  | T2 Screw             | 4x8                                 | 7P31-0408   | 1               | 1       |  |  |  |  |  |  |  |
| 6                                                                                   | Magnetic Contactor   | VC-20                               | 428393-01   | 1               | 1       |  |  |  |  |  |  |  |
| 6a                                                                                  | T2 Screw             | 4x8                                 | 7P31-0408   | 2               | 2       |  |  |  |  |  |  |  |
| 7                                                                                   | Fuse (Spare)         | -                                   | 4A0893-07   | 1               | 1       |  |  |  |  |  |  |  |
| 8                                                                                   | Transformer          | 26D285H                             | 3A0172-01   | 1               | 1       |  |  |  |  |  |  |  |
| 8a                                                                                  | T2 Screw             | 4x8                                 | 7P31-0408   | 2               | 2       |  |  |  |  |  |  |  |
| 9                                                                                   | Capacitor-Pump Motor | 5.5MFD, 250VAC                      | 443192-03   | 1               | 1       |  |  |  |  |  |  |  |
| 9a                                                                                  | T2 Screw             | 4x10                                | 7P31-0410   | 1               | 1       |  |  |  |  |  |  |  |
| 10                                                                                  | Control Board        | "E" Board                           | 2A1410-01   | 1               | -       |  |  |  |  |  |  |  |
|                                                                                     |                      | "G" Board                           | 2A3792-01   |                 | 1       |  |  |  |  |  |  |  |
| 11                                                                                  | Board Support        | CBLS37-M                            | 4A0336-03   | 4               | 4       |  |  |  |  |  |  |  |
| 12                                                                                  | Bushing              | SB-1093-15                          | 420470-03   | 1               | 1       |  |  |  |  |  |  |  |
| 13                                                                                  | Bushing              | OCB-500                             | 428394-02   | 1               | 1       |  |  |  |  |  |  |  |
| 14                                                                                  | Clamp                | -                                   | 4A2338-01   | 2               | 2       |  |  |  |  |  |  |  |
| 15                                                                                  | Capacitor-Fan Motor  | <b>KM-515MAH</b><br>5MFD,<br>250VAC | 443192-02   | 1               | 1       |  |  |  |  |  |  |  |
| 15a                                                                                 | T2 Screw             | <b>KM-515MAH</b><br>4x10            | 7P31-0410   | 1               | 1       |  |  |  |  |  |  |  |
| 16                                                                                  | Wire Harness         | -                                   | 4A2200G04   |                 | 1       |  |  |  |  |  |  |  |

**E. Label Location**  
**KM-515MAH**  
S-0 to U-3



| Title: <b>E. Label Location</b> Model: <b>KM-515MAH</b> |                                    |                          |             |                 |     |     |  |  |  |  |  |  |
|---------------------------------------------------------|------------------------------------|--------------------------|-------------|-----------------|-----|-----|--|--|--|--|--|--|
| Index No.                                               | Description                        | Material or Model Number | Part Number | Required Number |     |     |  |  |  |  |  |  |
|                                                         |                                    |                          |             | S-0 to U-1      | U-2 | U-3 |  |  |  |  |  |  |
| 1                                                       | Emblem                             | PETP FILM                | 4A0560-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 2                                                       | Label-Alarm                        | -                        | 4A3517-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4737-01   |                 |     | 1   |  |  |  |  |  |  |
| 3                                                       | Label-Penguin-HA (R)               | PETP FILM                | 4A0526-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 4                                                       | Maintenance Label                  | PVC FILM                 | 3A4649-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 3A5404-01   |                 |     | 1   |  |  |  |  |  |  |
| 5                                                       | Wiring Label                       | PVC FILM                 | 3A4595-01   | 1               | -   |     |  |  |  |  |  |  |
|                                                         |                                    |                          | 3A5036-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 6                                                       | Nameplate                          | PES FILM                 | 2A4372-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 7                                                       | Instruction Sheet                  | PAPER                    | 2A4371-01   | 1               | -   |     |  |  |  |  |  |  |
| 8                                                       | Manual Label                       | PVC FILM                 | 446564-01   | 1               | -   |     |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4615-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 9                                                       | Tag-Warning: Electrical Connection | PAPER                    | 435005-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4766-01   |                 |     | 1   |  |  |  |  |  |  |
| 10                                                      | Operation Label-Valve              | PVC FILM                 | 439541-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4828-01   |                 |     | 1   |  |  |  |  |  |  |
| 11                                                      | Label-R404A                        | PES FILM                 | 4A0960-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 12                                                      | Caution Label (F)                  | PVC FILM                 | 439146-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         | Warning Label (F)                  |                          | 4A4767-01   |                 |     | 1   |  |  |  |  |  |  |
| 13                                                      | Caution Label (H)                  | PVC FILM                 | 439148-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         | Warning Label (H)                  |                          | 4A4795-01   |                 |     | 1   |  |  |  |  |  |  |
| 14                                                      | Label-Air Filter                   | PETP FILM                | 426177-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 15                                                      | Instruction Label                  | PVC FILM                 | 444575-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 16                                                      | Label-Control Board                | PVC FILM                 | 3A2220-01   | 1               | -   |     |  |  |  |  |  |  |
|                                                         |                                    |                          | 3A4799-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 17                                                      | Rating Label                       | -                        | 2A4373-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 18                                                      | Label-Fuse                         | -                        | 4A2817-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4829-01   |                 |     | 1   |  |  |  |  |  |  |

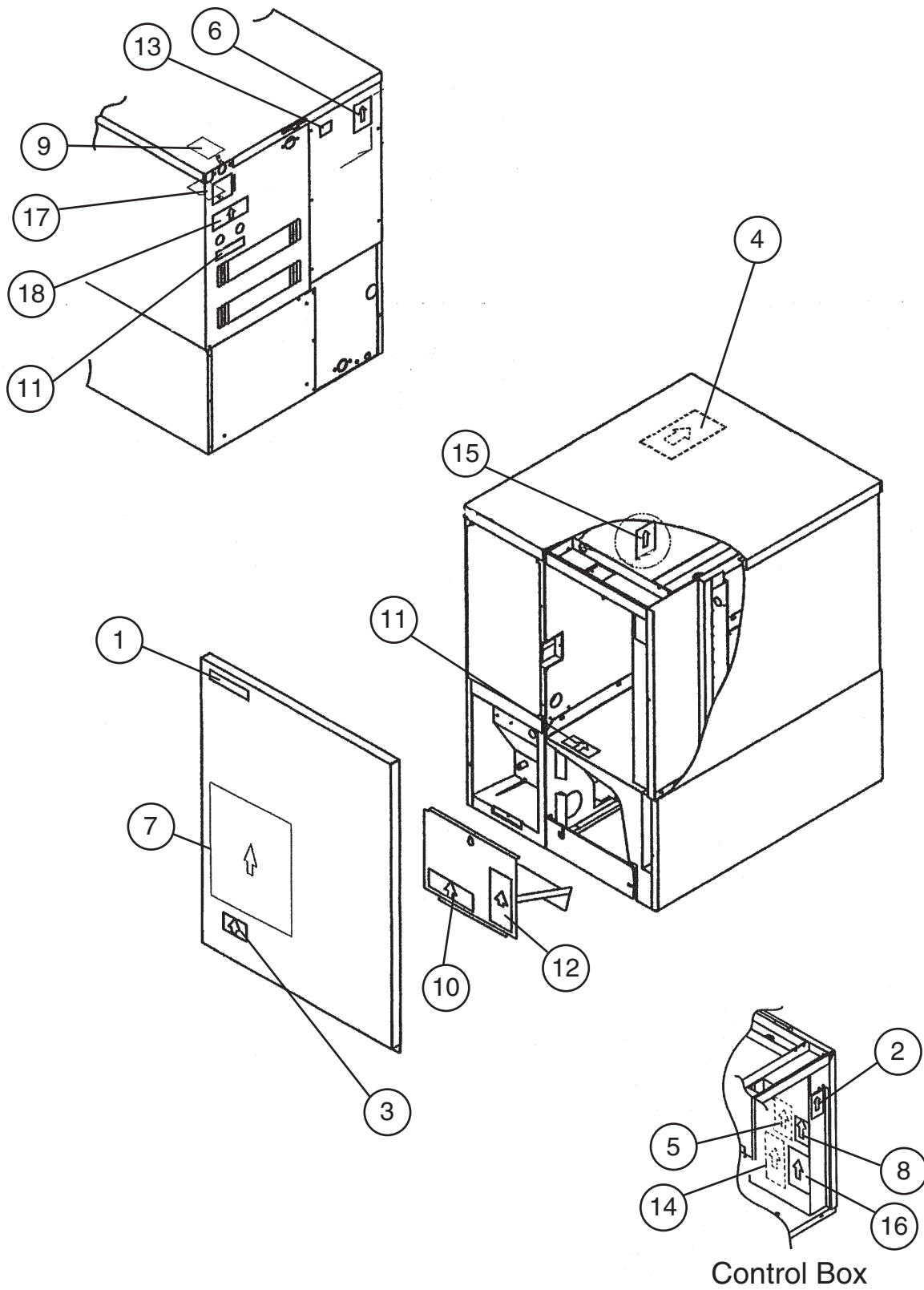
**E. Label Location**  
**KM-515MWH**  
S-0 to U-3



| Title: <b>E. Label Location</b> Model: <b>KM-515MWH</b> |                                    |                          |             |                 |     |     |  |  |  |  |  |  |
|---------------------------------------------------------|------------------------------------|--------------------------|-------------|-----------------|-----|-----|--|--|--|--|--|--|
| Index No.                                               | Description                        | Material or Model Number | Part Number | Required Number |     |     |  |  |  |  |  |  |
|                                                         |                                    |                          |             | S-0 to U-1      | U-2 | U-3 |  |  |  |  |  |  |
| 1                                                       | Emblem                             | PETP FILM                | 4A0560-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 2                                                       | Label-Alarm                        | -                        | 4A3517-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4737-01   |                 |     | 1   |  |  |  |  |  |  |
| 3                                                       | Label-Penguin-HA (R)               | PETP FILM                | 4A0526-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 4                                                       | Maintenance Label                  | PVC FILM                 | 3A4649-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 3A5404-01   |                 |     | 1   |  |  |  |  |  |  |
| 5                                                       | Wiring Label                       | PVC FILM                 | 3A4595-01   | 1               | -   |     |  |  |  |  |  |  |
|                                                         |                                    |                          | 3A5036-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 6                                                       | Nameplate                          | PES FILM                 | 2A4372-02   | 1               | 1   | 1   |  |  |  |  |  |  |
| 7                                                       | Instruction Sheet                  | PAPER                    | 2A4371-01   | 1               | -   |     |  |  |  |  |  |  |
| 8                                                       | Manual Label                       | PVC FILM                 | 446564-01   | 1               | -   |     |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4615-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 9                                                       | Tag-Warning: Electrical Connection | PAPER                    | 435005-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4766-01   |                 |     | 1   |  |  |  |  |  |  |
| 10                                                      | Operation Label-Valve              | PVC FILM                 | 439541-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4828-01   |                 |     | 1   |  |  |  |  |  |  |
| 11                                                      | Label-R404A                        | PES FILM                 | 4A0960-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 12                                                      | Caution Label (H)                  | PVC FILM                 | 439148-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         | Warning Label (H)                  |                          | 4A4795-01   |                 |     | 1   |  |  |  |  |  |  |
| 13                                                      | Instruction Label                  | PVC FILM                 | 444575-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 14                                                      | Label-Control Board                | PVC FILM                 | 3A2220-01   | 1               | -   |     |  |  |  |  |  |  |
|                                                         |                                    |                          | 3A4799-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 15                                                      | Rating Label                       | -                        | 2A4373-02   | 1               | 1   | 1   |  |  |  |  |  |  |
| 16                                                      | Label-Fuse                         | -                        | 4A2817-01   | 1               | 1   | -   |  |  |  |  |  |  |
|                                                         |                                    |                          | 4A4829-01   |                 |     | 1   |  |  |  |  |  |  |



**E. Label Location**  
**KM-515MRH**  
 S-0 to U-3



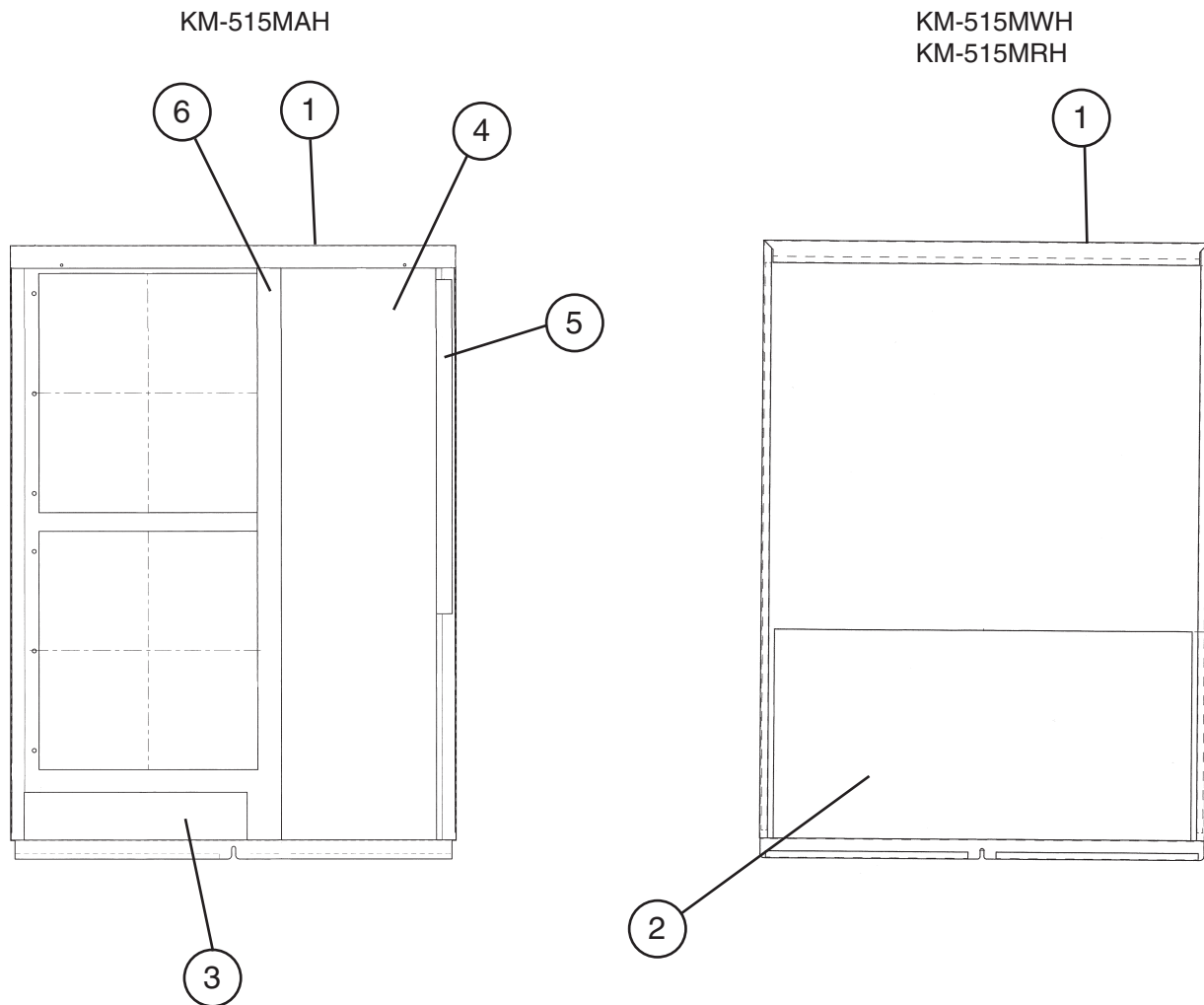
Title: **E. Label Location** Model: **KM-515MRH**

| Index No. | Description                        | Material or Model Number | Part Number | Required Number |     |     |  |  |  |  |  |  |
|-----------|------------------------------------|--------------------------|-------------|-----------------|-----|-----|--|--|--|--|--|--|
|           |                                    |                          |             | S-0 to U-1      | U-2 | U-3 |  |  |  |  |  |  |
| 1         | Emblem                             | PETP FILM                | 4A0560-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 2         | Label-Fuse                         | -                        | 4A2817-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           |                                    |                          | 4A4829-01   |                 |     | 1   |  |  |  |  |  |  |
| 3         | Label-Penguin-HA (R)               | PETP FILM                | 4A0526-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 4         | Maintenance Label                  | PVC FILM                 | 3A4649-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           |                                    |                          | 3A5404-01   |                 |     | 1   |  |  |  |  |  |  |
| 5         | Wiring Label                       | PVC FILM                 | 3A4596-01   | 1               | -   |     |  |  |  |  |  |  |
|           |                                    |                          | 3A5042-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 6         | Nameplate                          | PES FILM                 | 2A4372-03   | 1               | 1   | 1   |  |  |  |  |  |  |
| 7         | Instruction Sheet                  | PAPER                    | 2A4371-01   | 1               | -   |     |  |  |  |  |  |  |
| 8         | Manual Label                       | PVC FILM                 | 4A6564-01   | 1               | -   |     |  |  |  |  |  |  |
|           |                                    |                          | 4A4615-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 9         | Tag-Warning: Electrical Connection | PAPER                    | 435005-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           |                                    |                          | 4A4766-01   |                 |     | 1   |  |  |  |  |  |  |
| 10        | Operation Label-Valve              | PVC FILM                 | 439541-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           |                                    |                          | 4A4828-01   |                 |     | 1   |  |  |  |  |  |  |
| 11        | Label-R404A                        | PES FILM                 | 4A0960-01   | 2               | 2   | 2   |  |  |  |  |  |  |
| 12        | Caution Label (H)                  | PVC FILM                 | 439148-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           | Warning Label (H)                  |                          | 4A4795-01   |                 |     | 1   |  |  |  |  |  |  |
| 13        | Instruction Label                  | PVC FILM                 | 4A4575-01   | 1               | 1   | 1   |  |  |  |  |  |  |
| 14        | Label-Control Board                | PVC FILM                 | 3A2220-01   | 1               | -   |     |  |  |  |  |  |  |
|           |                                    |                          | 3A4799-01   |                 | 1   | 1   |  |  |  |  |  |  |
| 15        | Rating Label                       | PES FILM                 | 2A4373-03   | 1               | 1   | 1   |  |  |  |  |  |  |
| 16        | Label-Alarm                        | -                        | 4A3517-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           |                                    |                          | 4A4737-01   |                 |     | 1   |  |  |  |  |  |  |
| 17        | Tag-Fan Motor Leads                | -                        | 4A1494-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           |                                    |                          | 4A4830-01   |                 |     | 1   |  |  |  |  |  |  |
| 18        | Caution-Remote Label               | -                        | 4A1491-01   | 1               | 1   | -   |  |  |  |  |  |  |
|           | Warning-Remote Label               |                          | 4A4831-01   |                 |     | 1   |  |  |  |  |  |  |

## F. Front Panel Assembly

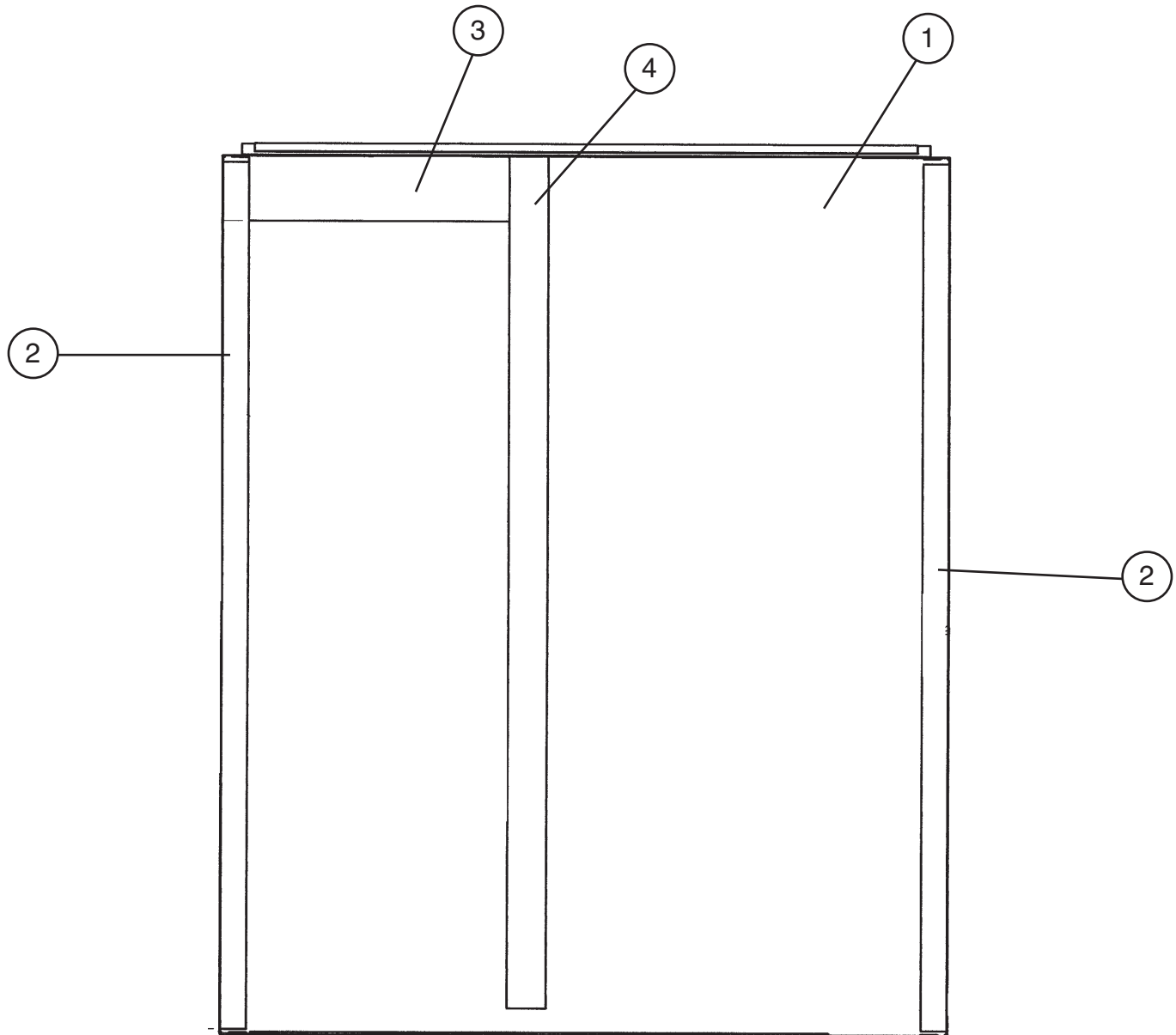
### KM-515MAH, KM-515MWH, KM-515MRH

S-0 to U-3



| Title: F. Front Panel Assembly Model: KM-515MAH, KM-515MWH, KM-515MRH |                      |                          |             |            |                 |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------|----------------------|--------------------------|-------------|------------|-----------------|--|--|--|--|--|--|--|
| Index No.                                                             | Description          | Material or Model Number | Part Number | S-0 to U-3 | Required Number |  |  |  |  |  |  |  |
|                                                                       |                      |                          |             |            |                 |  |  |  |  |  |  |  |
| 1                                                                     | Front Panel          | KM-515MAH                | 2A2130-04   | 1          |                 |  |  |  |  |  |  |  |
|                                                                       |                      | KM-515MWH, KM-515MRH     | 2A2130-05   | 1          |                 |  |  |  |  |  |  |  |
| 2                                                                     | Insulation (A)       | KM-515MWH, KM-515MRH     | 4A2507-01   | 1          |                 |  |  |  |  |  |  |  |
| 3                                                                     | Insulation (B)       | KM-515MAH                | 4A1872-01   | 1          |                 |  |  |  |  |  |  |  |
| 4                                                                     | Front Insulation (C) | KM-515MAH                | 3A3885-01   | 1          |                 |  |  |  |  |  |  |  |
| 5                                                                     | Foam Seal            | KM-515MAH<br>L=420       | 4A1163L01   | 1          |                 |  |  |  |  |  |  |  |
| 6                                                                     | Foam Seal            | KM-515MAH<br>L=530       | 4A1163L01   | 1          |                 |  |  |  |  |  |  |  |

**G. Top Panel Assembly**  
**KM-515MAH, KM-515MWH, KM-515MRH**  
 S-0 to U-3

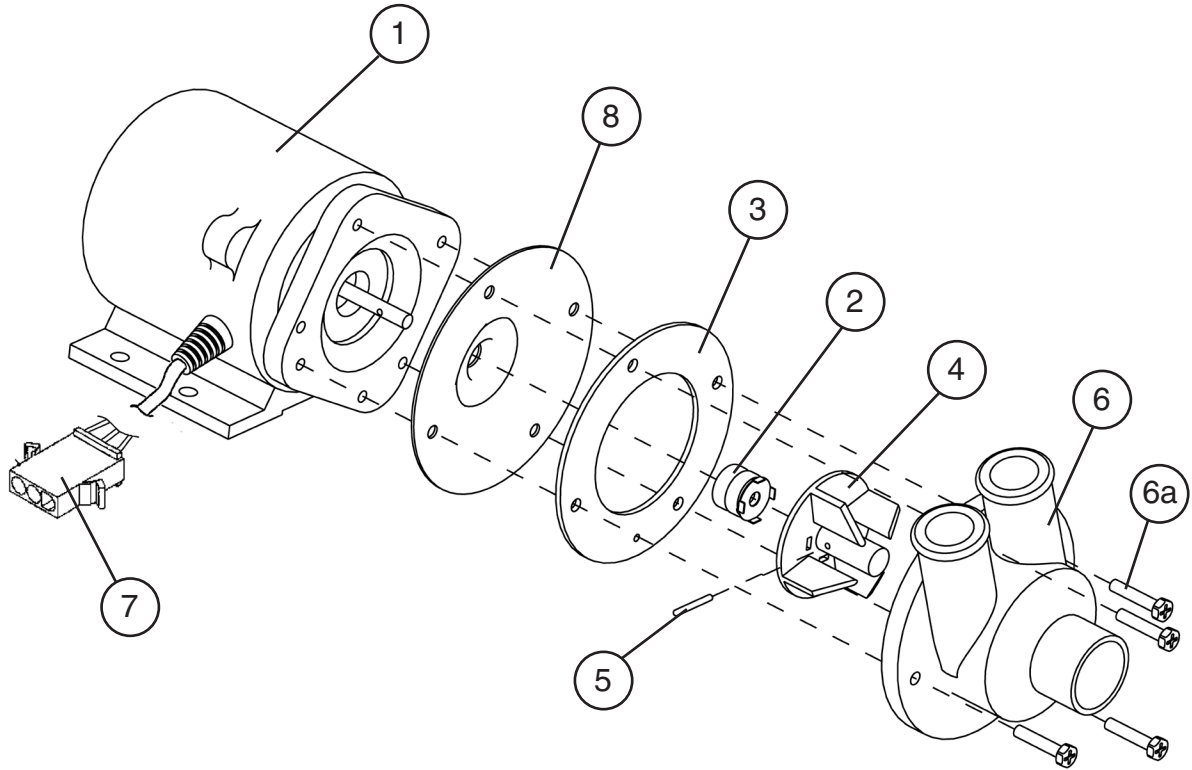


| Title: <b>G. Top Panel Assembly</b> Model: <b>KM-515MAH, KM-515MWH, KM-515MRH</b> |             |                          |             |            |                 |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|-------------|--------------------------|-------------|------------|-----------------|--|--|--|--|--|--|--|
| Index No.                                                                         | Description | Material or Model Number | Part Number | S-0 to U-3 | Required Number |  |  |  |  |  |  |  |
|                                                                                   |             |                          |             |            |                 |  |  |  |  |  |  |  |
| 1                                                                                 | Top Panel   | -                        | 2A2133-01   | 1          |                 |  |  |  |  |  |  |  |
| 2                                                                                 | Gasket      | -                        | 427014-04   | 2          |                 |  |  |  |  |  |  |  |
| 3                                                                                 | Insulation  | -                        | 438012-01   | 1          |                 |  |  |  |  |  |  |  |
| 4                                                                                 | Foam Seal   | L=658                    | 4A1163L01   | 1          |                 |  |  |  |  |  |  |  |

## H. Pump Motor Assembly

### KM-515MAH, KM-515MWH, KM-515MRH

S-0 to U-3

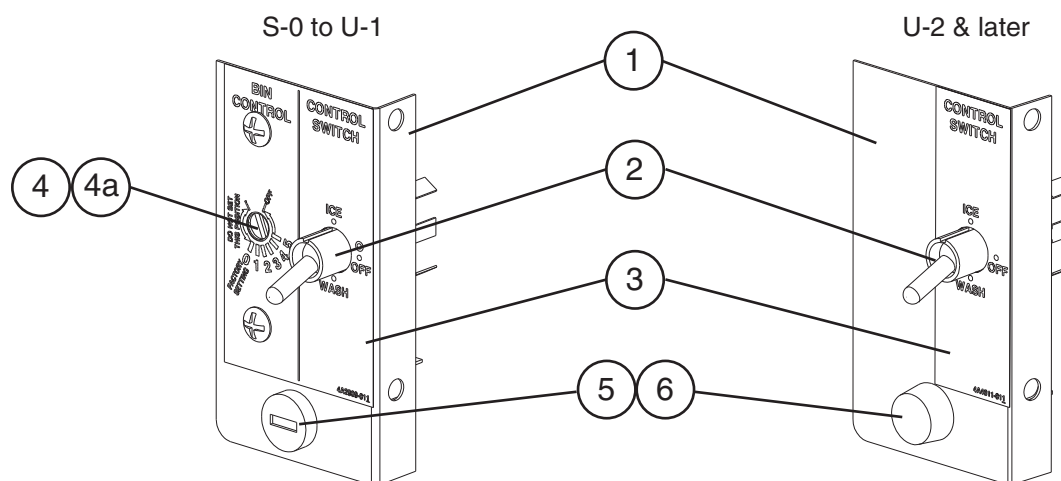


| Title: <b>H. Pump Motor Assembly</b> Model: <b>KM-515MAH, KM-515MWH, KM-515MRH</b> |                     |                           |             |                 |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------|---------------------|---------------------------|-------------|-----------------|--|--|--|--|--|--|--|
| Index No.                                                                          | Description         | Material or Model Number  | Part Number | Required Number |  |  |  |  |  |  |  |
|                                                                                    |                     |                           |             | S-0 to U-3      |  |  |  |  |  |  |  |
| 1                                                                                  | Pump Motor          | APTA9210WD1 120V          | 2A2758-01   | 1               |  |  |  |  |  |  |  |
| 2                                                                                  | Mechanical Seal / R | HKU90-J9001               | 465627-01   | 1               |  |  |  |  |  |  |  |
| 3                                                                                  | Pump Gasket         | EPDM                      | 4A2974-01   | 1               |  |  |  |  |  |  |  |
| 4                                                                                  | Impeller            | ABS                       | 433522-01   | 1               |  |  |  |  |  |  |  |
| 5                                                                                  | Pin                 | SS                        | 4A0648-01   | 1               |  |  |  |  |  |  |  |
| 6                                                                                  | Pump Housing        | ABS                       | 211409-01   | 1               |  |  |  |  |  |  |  |
| 6a                                                                                 | Screw               | 4x20, Geomet 321coated SS | 4A3871-01   | 4               |  |  |  |  |  |  |  |
| 7                                                                                  | Plug Housing        | -                         | 412832-06   | 1               |  |  |  |  |  |  |  |
| 8                                                                                  | Pump Flange         | -                         | 3A2988-01   | 1               |  |  |  |  |  |  |  |

## J. Control Assembly

### KM-515MAH, KM-515MWH, KM-515MRH

S-0 to U-3



| Title: J. Control Assembly    Model: KM-515MAH, KM-515MWH, KM-515MRH |                  |                          |             |                 |         |  |  |  |  |  |  |
|----------------------------------------------------------------------|------------------|--------------------------|-------------|-----------------|---------|--|--|--|--|--|--|
| Index No.                                                            | Description      | Material or Model Number | Part Number | Required Number |         |  |  |  |  |  |  |
|                                                                      |                  |                          |             | S-0 to U-1      | U-2 U-3 |  |  |  |  |  |  |
| 1                                                                    | Control Box (C)  | -                        | 4A2816-01   | 1               | -       |  |  |  |  |  |  |
|                                                                      |                  |                          | 4A4613-01   |                 | 1       |  |  |  |  |  |  |
| 2                                                                    | Toggle Switch    | 8966K84                  | 443119-01   | 1               | 1       |  |  |  |  |  |  |
| 3                                                                    | Control Label    | -                        | 4A2909-01   | 1               | -       |  |  |  |  |  |  |
|                                                                      |                  |                          | 4A4611-01   |                 | 1       |  |  |  |  |  |  |
| 4                                                                    | Thermostat       | -                        | 4A2879-01   | 1               | -       |  |  |  |  |  |  |
| 4a                                                                   | Truss Head Screw | -                        | 7C31-0408   | 2               | -       |  |  |  |  |  |  |
| 5                                                                    | Fuse Holder      | -                        | 4A0892-01   | 1               | -       |  |  |  |  |  |  |
|                                                                      |                  |                          | 4A3449-01   |                 | 1       |  |  |  |  |  |  |
| 6                                                                    | Fuse (10A 250V)  | AGC-10                   | 4A0893-07   | 1               | 1       |  |  |  |  |  |  |

**K. Accessories & Packaging**  
**KM-515MAH, KM-515MWH, KM-515MRH**  
 S-0 to U-3

| Title: <b>K. Accessories &amp; Packaging</b> Model: <b>KM-515MAH, KM-515MWH, KM-515MRH</b> |                    |                          |             |                 |  |  |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------------|--------------------|--------------------------|-------------|-----------------|--|--|--|--|--|--|--|--|
| Index No.                                                                                  | Description        | Material or Model Number | Part Number | Required Number |  |  |  |  |  |  |  |  |
|                                                                                            |                    |                          |             | S-0 to U-3      |  |  |  |  |  |  |  |  |
| 1                                                                                          | Instruction Manual | -                        | 91A1MQ10B   | 1               |  |  |  |  |  |  |  |  |
| 2                                                                                          | Universal Brace    | GS                       | 4A0363-01   | 2               |  |  |  |  |  |  |  |  |
| 3                                                                                          | Hex Head Bolt      | 5x12, SS                 | 7B0230512   | 4               |  |  |  |  |  |  |  |  |
|                                                                                            |                    |                          |             |                 |  |  |  |  |  |  |  |  |
| -                                                                                          | Packaging          | -                        | 2A3865A01   |                 |  |  |  |  |  |  |  |  |