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# REPLACEMENT PARTS MANUAL

# PACKAGE AIR CONDITIONER

Models:

**PA13421-A**

**PA13421-B**

**PA13481-A**

**PA13481-B**

**PA13601-A**

**PA13601-B**

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## General Notes

- Revised and/or additional pages may be issued from time to time.
- A complete and current manual consists of pages shown in the following contents section.

## Important

- Contact the installing and/or local Bard distributor for all parts requirements. Make sure you have the complete model and serial number available from the unit rating plates.

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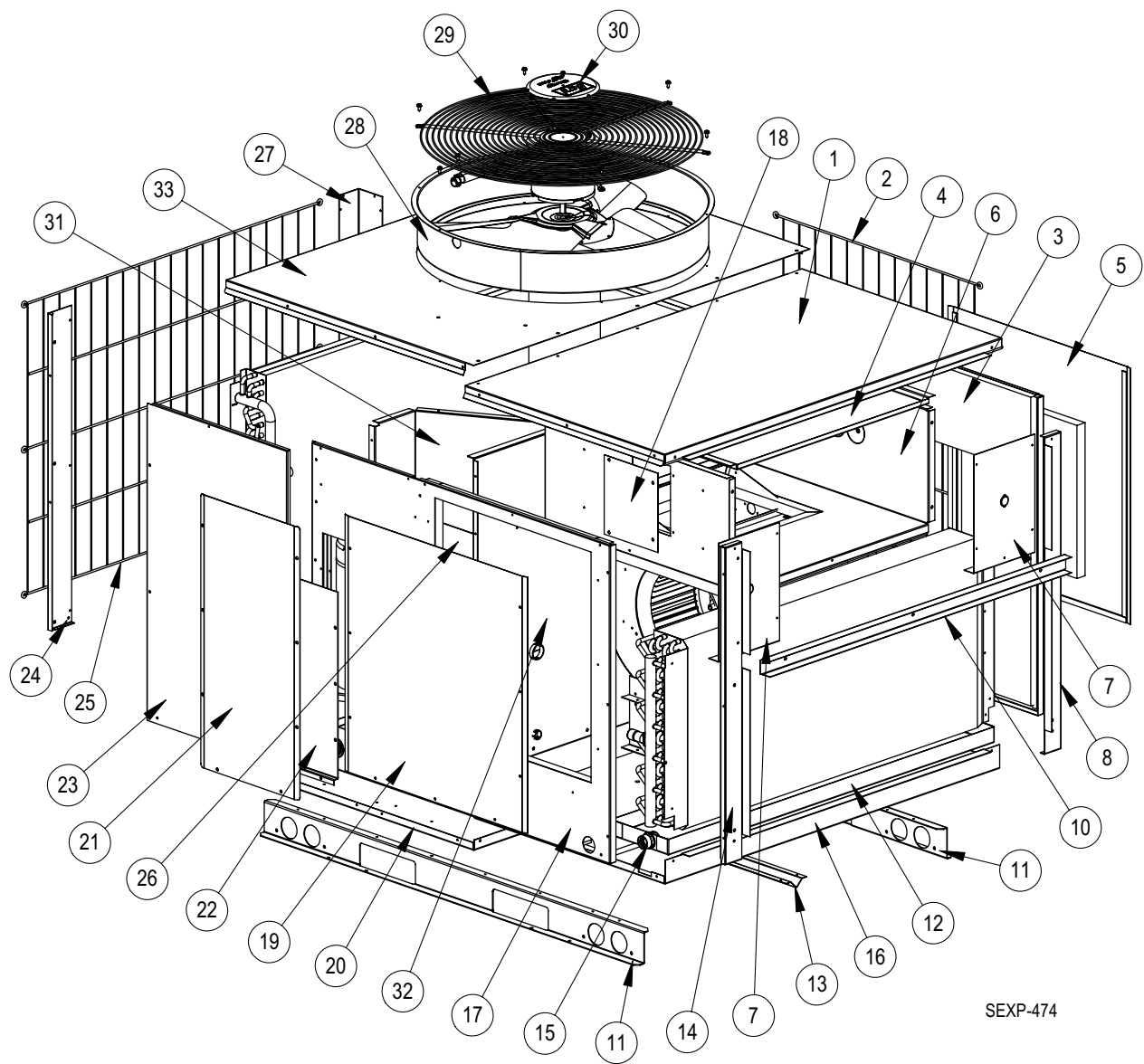


Bard Manufacturing Company, Inc.  
Bryan, Ohio 43506  
*Since 1914...Moving, ahead just as planned.*

Manual: 2110-217A  
Supersedes: 2110-217  
File: Tab 10  
Date: 08-20-07

# CABINET COMPONENTS

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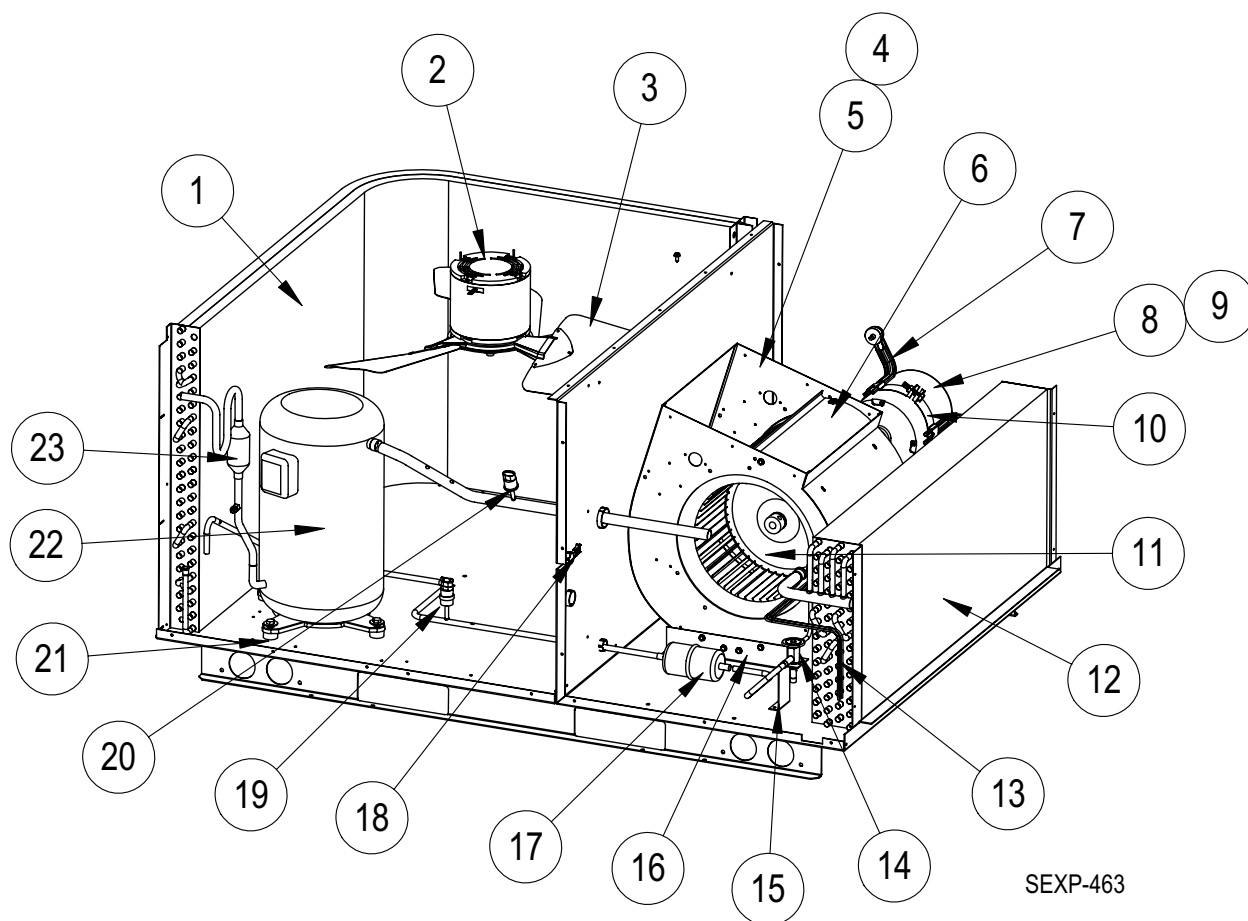
SEXP-474

# CABINET COMPONENTS

| Drawing No. | Part No.                             | Description                | PA13421-A | PA13421-B | PA13481-A | PA13481-B | PA13601-A | PA13601-B |
|-------------|--------------------------------------|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1           | 507-255-X                            | Indoor Top                 | X         | X         | X         | X         | X         | X         |
| 2           | 7051-054                             | Side Condenser Grille      | X         | X         | X         | X         | X         | X         |
| 3           | 501-474-X                            | Left Side                  | X         | X         | X         | X         | X         | X         |
| 4           | 134-134                              | Heat Strip Shield          | X         | X         | X         | X         | X         | X         |
| 5           | S553-400-X                           | Blower Access Door         | X         | X         | X         | X         | X         | X         |
| 6           | S120-400                             | Blower Partition           | X         | X         | X         | X         | X         | X         |
| 7           | 137-513                              | Blower Partition Side Fill | 2         | 2         | 2         | 2         | 2         | 2         |
| 8           | 549-106-X                            | Left Rear Corner           | X         | X         | X         | X         | X         | X         |
| 10          | 165-590-X                            | Plenum Channel             | X         | X         | X         | X         | X         | X         |
| 11          | 102-460                              | Base Rail                  | 2         | 2         | 2         | 2         | 2         | 2         |
| 12          | S123-114                             | Drain Pan with Fitting     | X         | X         | X         | X         | X         | X         |
| 13          | 140-321-X                            | Center Base Rail           | X         | X         | X         | X         | X         | X         |
| 14          | 549-103-X                            | Right Rear Corner          | X         | X         | X         | X         | X         | X         |
| 15          | 6094-003                             | Drain Pan Fitting          | X         | X         | X         | X         | X         | X         |
| 16          | S126-350-X                           | Indoor Base                | X         | X         | X         | X         | X         | X         |
| 17          | S501-473-X                           | Right Side                 | X         | X         | X         | X         | X         | X         |
| 18          | 142-045                              | OKW Cover Plate            | X         | X         | X         | X         | X         | X         |
| 19          | S553-409-X                           | Heater Access Door         | X         | X         | X         | X         | X         | X         |
| 20          | 126-349-X                            | Outdoor Base               | X         | X         | X         | X         | X         | X         |
| 21          | S153-399-X                           | Outer Control Panel Door   | X         | X         | X         | X         | X         | X         |
| 22          | S153-397                             | Inner Control Panel Door   | X         | X         | X         | X         | X         | X         |
| 23          | S153-398-X                           | Compressor Access Door     | X         | X         | X         | X         | X         | X         |
| 24          | 149-104-X                            | Right Front Corner         | X         | X         | X         | X         | X         | X         |
| 25          | 7051-053                             | Front Condenser Grille     | X         | X         | X         | X         | X         | X         |
| 26          | Control Panel Assembly - See Drawing |                            | X         | X         | X         | X         | X         | X         |
| 27          | 149-105-X                            | Left Front Corner          | X         | X         | X         | X         | X         | X         |
| 28          | S167-014-X                           | Fan Venturi                | X         | X         | X         | X         | X         | X         |
| 29          | 7051-018                             | Fan and Motor Mount Grille | X         | X         | X         | X         | X         | X         |
| 30          | 5252-009                             | Bard Nameplate             | X         | X         | X         | X         | X         | X         |
| 31          | 135-223                              | Control Panel Rain Shield  | X         | X         | X         | X         | X         | X         |
| 32          | S121-399                             | Condenser Partition        | X         | X         | X         | X         | X         | X         |
| 33          | 107-254-X                            | Outdoor Top                | X         | X         | X         | X         | X         | X         |

## FUNCTIONAL COMPONENTS

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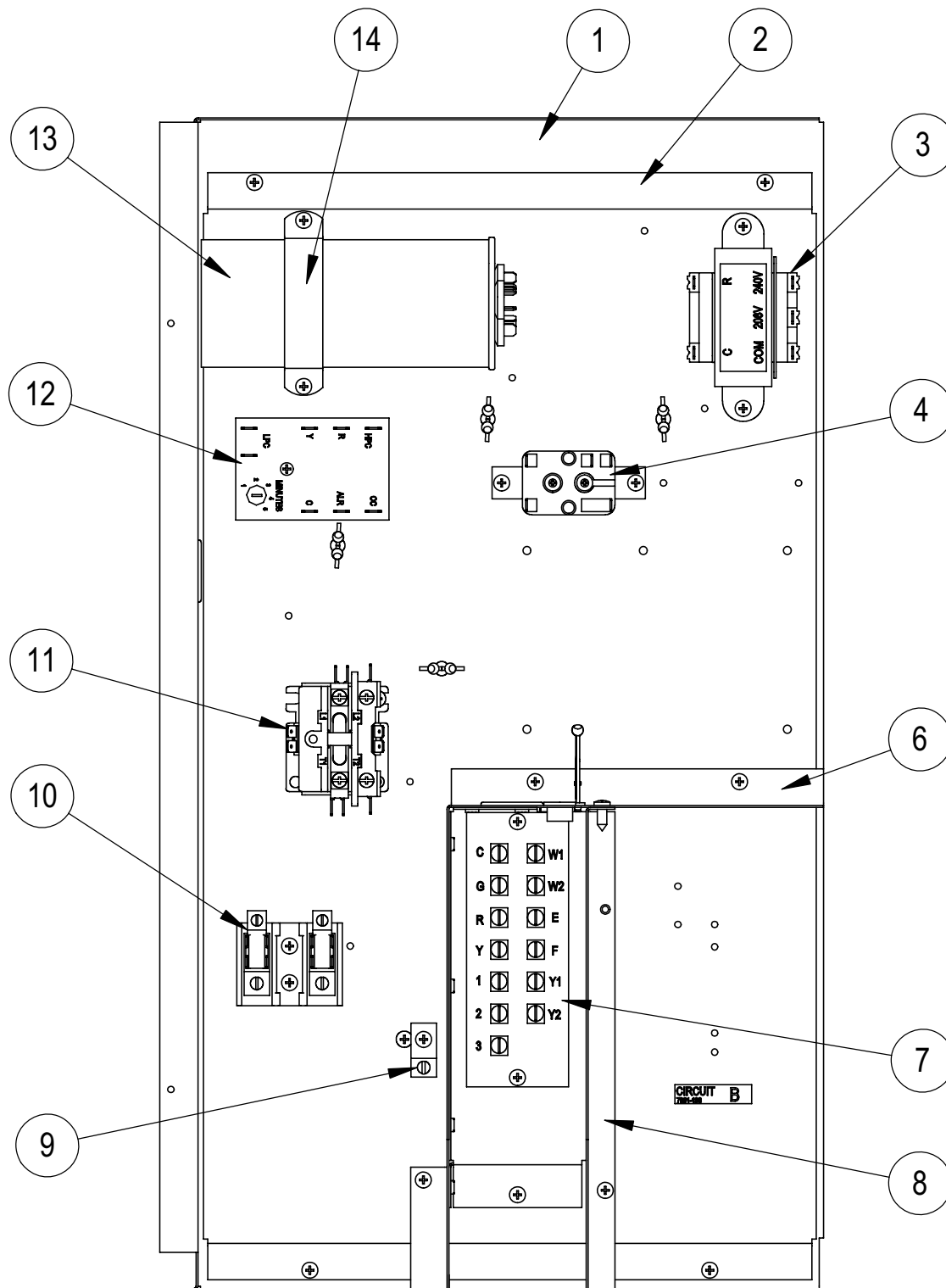


## FUNCTIONAL COMPONENTS

| Drawing No. | Part No.       | Description                       | PA13421-A | PA13421-B | PA13481-A | PA13481-B | PA13601-A | PA13601-B |
|-------------|----------------|-----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1           | 5051-138BX     | Condenser Coil                    | X         | X         | X         | X         | X         | X         |
| 2           | 8104-019       | Outdoor Motor                     | X         | X         | X         | X         | X         | X         |
| 3           | 5151-057       | Fan Blade                         | X         | X         | X         | X         | X         | X         |
| 4           | 900-244-001    | Complete Blower Assembly          | X         | X         |           |           |           |           |
| 4           | 900-245-001    |                                   |           |           | X         | X         |           |           |
| 4           | 900-245-002    |                                   |           |           |           |           | X         | X         |
| 5           | 151-097        | Blower Housing                    | X         | X         | X         | X         | X         | X         |
| 6           | 144-130        | Diffuser                          | X         | X         | X         | X         | X         | X         |
| 7           | 8620-034       | Motor Mount Kit                   | X         | X         | X         | X         | X         | X         |
| 8           | 8106-035-0018  | Programmed 1/2 HP Motor w/Control | X         | X         |           |           |           |           |
| 8           | 8107-009-0019  | Programmed 3/4 HP Motor w/Control |           |           | X         | X         |           |           |
| 8           | 8107-009-0044  | Programmed 3/4 HP Motor w/Control |           |           |           |           | X         | X         |
| 9           | C8106-035-0018 | Programmed 1/2 HP Control Only    | X         | X         |           |           |           |           |
| 9           | C8107-009-0019 | Programmed 3/4 HP Control Only    |           |           | X         | X         |           |           |
| 9           | C8107-009-0044 | Programmed 3/4 HP Control Only    |           |           |           |           | X         | X         |
| 10          | 8620-034       | Motor Mount Kit                   | X         | X         | X         | X         | X         | X         |
| 11          | 5152-049       | Blower Wheel                      | X         | X         | X         | X         | X         | X         |
| 12          | 5060-128BX     | Evaporator Coil                   | X         | X         | X         | X         | X         | X         |
| 13          | S800-0351      | Cooling Distributor 4 Outlet      | X         | X         | X         | X         | X         | X         |
| 14          | 5651-180       | Expansion Valve                   | X         | X         | X         | X         | X         | X         |
| 15          | 113-325        | Cooling TXV Mounting Bracket      | X         | X         | X         | X         | X         | X         |
| 16          | 104-795        | Blower Leg                        | 2         | 2         | 2         | 2         | 2         | 2         |
| 17          | 5201-002       | Filter Drier                      | X         | X         | X         | X         | X         | X         |
| 18          | 3000-1245      | 6 Pin Plug for Heater Package     | X         | X         | X         | X         | X         | X         |
| 19          | 1804-0327      | High Pressure Switch              | X         | X         | X         | X         | X         | X         |
| 20          | 1804-0338      | Low Pressure Switch               | X         | X         | X         | X         | X         | X         |
| 21          | 1012-217       | Cage Nut                          | 4         | 4         | 4         | 4         | 4         | 4         |
| 22          | 8000-287       | Compressor                        | X         |           |           |           |           |           |
| 22          | 8000-290       |                                   |           | X         |           |           |           |           |
| 22          | 8000-288       |                                   |           |           | X         |           |           |           |
| 22          | 8000-291       |                                   |           |           |           | X         |           |           |
| 22          | 8000-289       |                                   |           |           |           |           | X         |           |
| 22          | 8000-292       |                                   |           |           |           |           |           | X         |

Reference SEXP-463

# CONTROL PANEL — 1-PHASE



SEXP-466

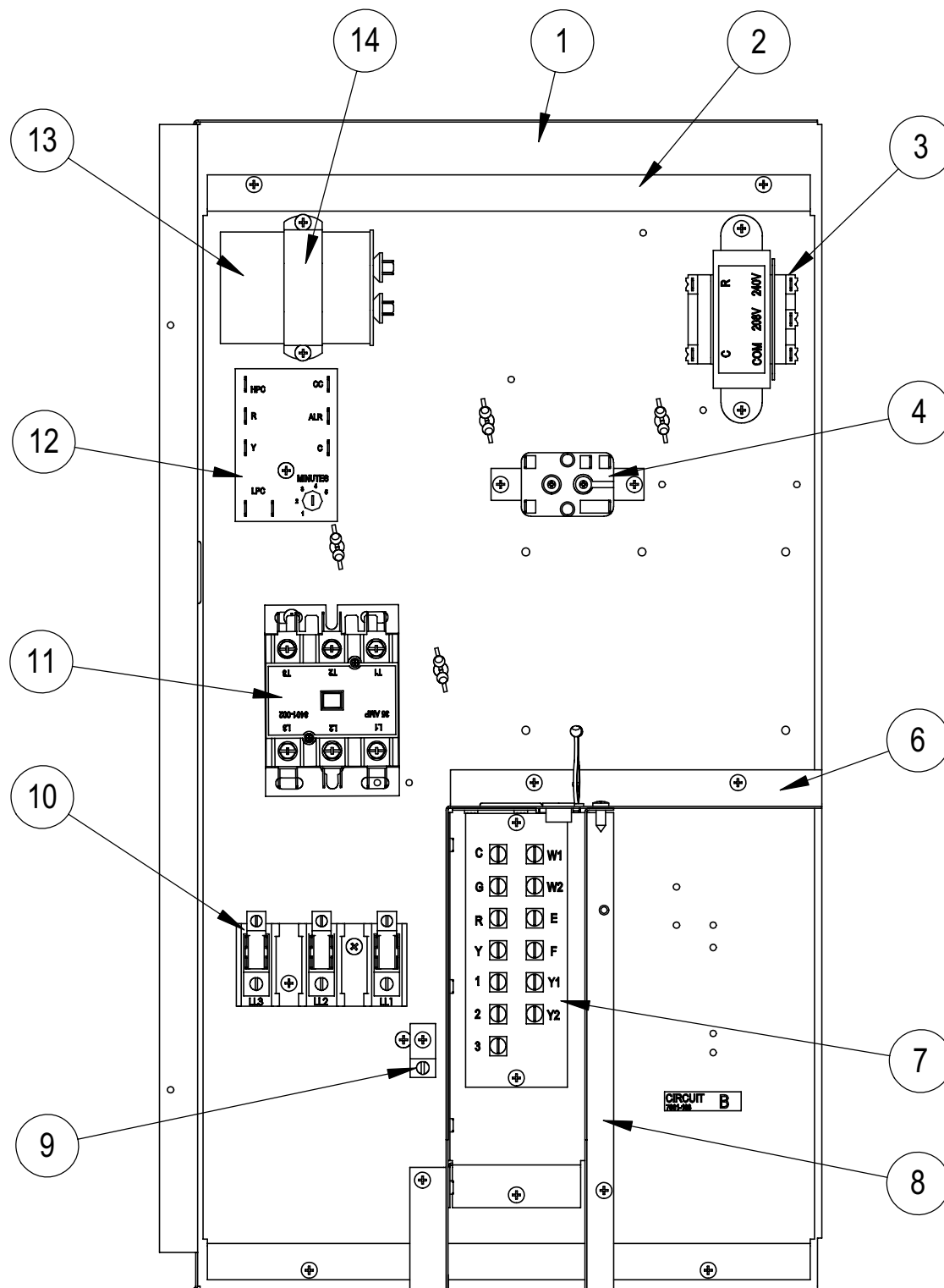
## CONTROL PANEL 1-PHASE

| Drawing No. | Part No. | Description               | PA13421-A | PA13481-A | PA13601-A |
|-------------|----------|---------------------------|-----------|-----------|-----------|
| 1           | 117-262  | Control Panel             | X         | X         | X         |
| 2           | 117-261  | Control Mounting Plate    | X         | X         | X         |
| 3           | 8407-035 | Transformer               | X         | X         | X         |
| 4           | 8201-062 | Relay                     | X         | X         | X         |
| 6           | 117-263  | Low Voltage Box Assembly  | X         | X         | X         |
| 7           | 8607-024 | Terminal Strip            | X         | X         | X         |
| 8           | 135-218  | Terminal Shield           | X         | X         | X         |
| 9           | 8611-006 | Ground Terminal           | X         | X         | X         |
| 10          | 8607-013 | Terminal Block            | X         | X         | X         |
| 11          | 8401-007 | Contactor                 | X         | X         | X         |
| 12          | 8201-088 | Compressor Control Module | X         | X         | X         |
| 13          | 8552-062 | Capacitor 60/5 MFD 370V   | X         |           |           |
| 13          | 8552-081 | Capacitor 70/5 MFD 370V   |           | X         |           |
| 13          | 8552-061 | Capacitor 80/5 MFD 370V   |           |           | X         |
| 14          | 8550-008 | Capacitor Bracket         | X         | X         | X         |
| NS          | 4109A100 | Wiring Diagram            | X         | X         | X         |
| NS          | 4109A101 | Ladder Diagram            | X         | X         | X         |

NS = Not Shown

*Reference SEXP-466*

# CONTROL PANEL — 3-PHASE



SEXP-468

## CONTROL PANEL 3-PHASE

| Drawing<br>No. | Part No. | Description               | PA13421-B | PA13481-B | PA13601-B |
|----------------|----------|---------------------------|-----------|-----------|-----------|
| 1              | 117-262  | Control Panel             | X         | X         | X         |
| 2              | 117-261  | Control Mounting Plate    | X         | X         | X         |
| 3              | 8407-035 | Transformer               | X         | X         | X         |
| 4              | 8201-062 | Relay                     | X         | X         | X         |
| 6              | 117-263  | Low Voltage Box Assembly  | X         | X         | X         |
| 7              | 8607-024 | Terminal Strip            | X         | X         | X         |
| 8              | 135-218  | Terminal Shield           | X         | X         | X         |
| 9              | 8611-006 | Ground Terminal           | X         | X         | X         |
| 10             | 8607-014 | Terminal Block            | X         | X         | X         |
| 11             | 8401-002 | Contactor                 | X         | X         | X         |
| 12             | 8201-088 | Compressor Control Module | X         | X         | X         |
| 13             | 8552-002 | Capacitor 5 MFD 370V      | X         | X         | X         |
| 14             | 8550-003 | Capacitor Bracket         | X         | X         | X         |
| NS             | 4109A202 | Wiring Diagram            | X         | X         |           |
| NS             | 4109A203 | Wiring Diagram            |           |           | X         |
| NS             | 4109A204 | Ladder Diagram            | X         | X         | X         |

NS = Not Shown

*Reference SEXP-468*