

PowerFlex 750-Series Board Replacement Kits

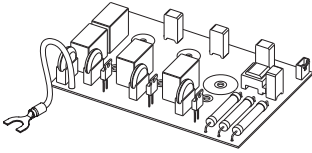
Frames 6 and 7

These installation instructions support the following board replacement kits.

| Board Type | Drive Frame | Voltage | Cat. No. | Page |
|------------------|------------------|------------------|------------------|---------|
| AC Precharge | 6 | 400/480 | SK-R9-PCG1-DF6 | 2 |
| | | 600/690 | SK-R9-PCG1-FF6 | 5 |
| | 7 | 400/480 | SK-R9-PCG1-DF7 | 9 |
| | | 600/690 | SK-R9-PCG1-FF7 | 13 |
| DC Precharge | 6 | 400/480 | SK-R9-PCG2-DF6 | 2 |
| | | 600/690 | SK-R9-PCG2-FF6 | 5 |
| | 7 | 400/480 | SK-R9-PCG2-DF7 | 9 |
| | | 600/690 | SK-R9-PCG2-FF7 | 13 |
| Power Interface | 6 | 400/480 | SK-R9-PINT1-CF6A | 2 |
| | | | SK-R9-PINT1-CF6B | |
| | | | SK-R9-PINT1-CF6C | |
| | | | SK-R9-PINT1-CF6D | |
| | | | SK-R9-PINT1-DF6A | |
| | | | SK-R9-PINT1-DF6B | |
| | | | SK-R9-PINT1-DF6C | |
| | | | SK-R9-PINT1-DF6D | |
| | | 600 | SK-R9-PINT1-EF6A | 5 |
| | | | SK-R9-PINT1-EF6B | |
| | | | SK-R9-PINT1-EF6C | |
| | | | SK-R9-PINT1-EF6D | |
| | | | SK-R9-PINT1-EF6E | |
| | | | SK-R9-PINT1-EF6F | |
| | SK-R9-PINT1-EF6G | | | |
| | SK-R9-PINT1-EF6H | | | |
| | 690 | SK-R9-PINT1-FF6A | 5 | |
| | | SK-R9-PINT1-FF6B | | |
| | | SK-R9-PINT1-FF6C | | |
| | | SK-R9-PINT1-FF6D | | |
| | | SK-R9-PINT1-FF6E | | |
| | | SK-R9-PINT1-FF6F | | |
| | | SK-R9-PINT1-FF6G | | |
| | | SK-R9-PINT1-FF6H | | |
| | | SK-R9-PINT1-FF6J | | |
| | | SK-R9-PINT1-FF6K | | |
| | | SK-R9-PINT1-FF6L | | |
| | | SK-R9-PINT1-FF6M | | |
| | | SK-R9-PINT1-FF6N | | |
| | | 7 | | 400/480 |
| | SK-R9-PINT1-CF7B | | | |
| | SK-R9-PINT1-CF7C | | | |
| | SK-R9-PINT1-DF7A | | | |
| | SK-R9-PINT1-DF7B | | | |
| | SK-R9-PINT1-DF7C | | | |
| | 600 | | SK-R9-PINT1-EF7A | 13 |
| SK-R9-PINT1-EF7B | | | | |
| SK-R9-PINT1-EF7C | | | | |
| 690 | SK-R9-PINT1-FF7A | | 13 | |
| | SK-R9-PINT1-FF7B | | | |
| | SK-R9-PINT1-FF7C | | | |

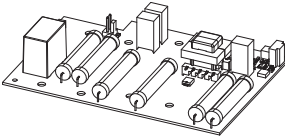
400/480V Frame 6 Drives

AC Precharge Board
SK-R9-PCG1-DF6



Step 2: See [page 3](#).

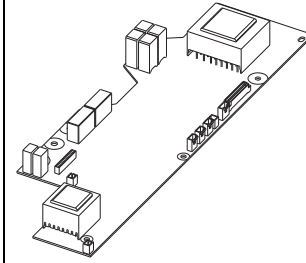
DC Precharge Board
SK-R9-PCG2-DF6



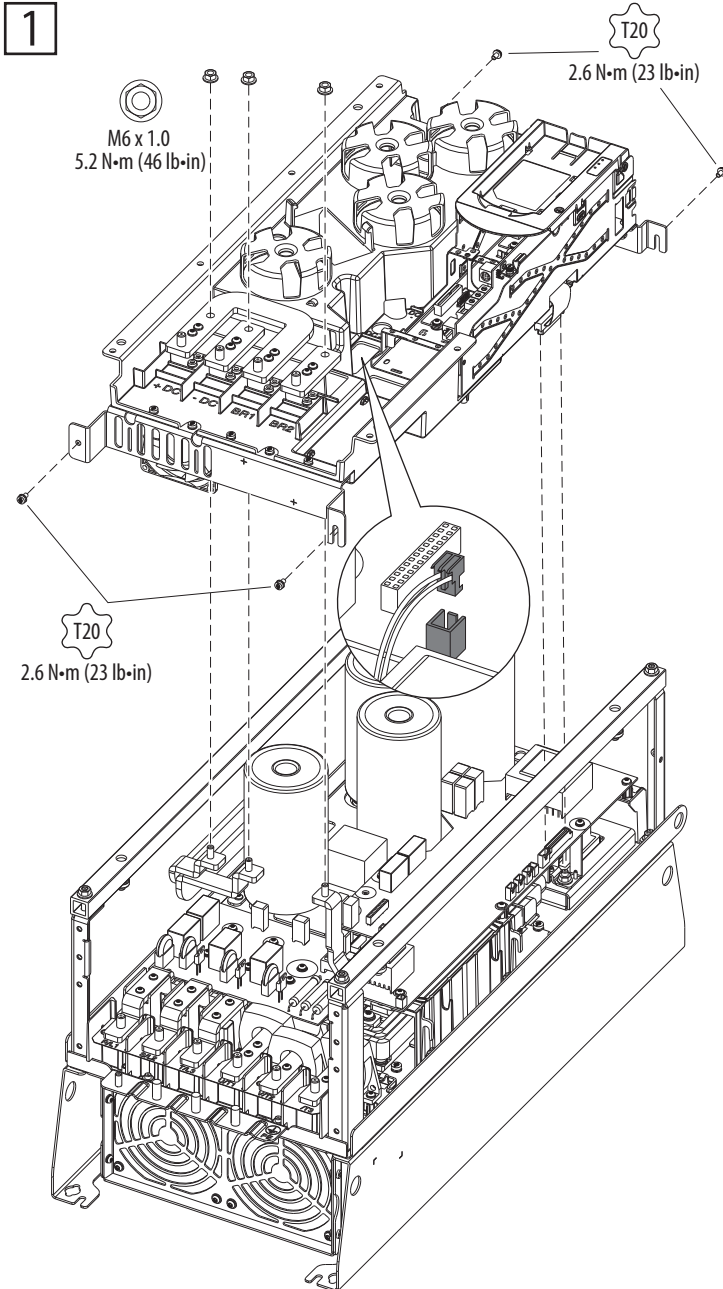
Step 2: See [page 3](#).

Power Interface Board

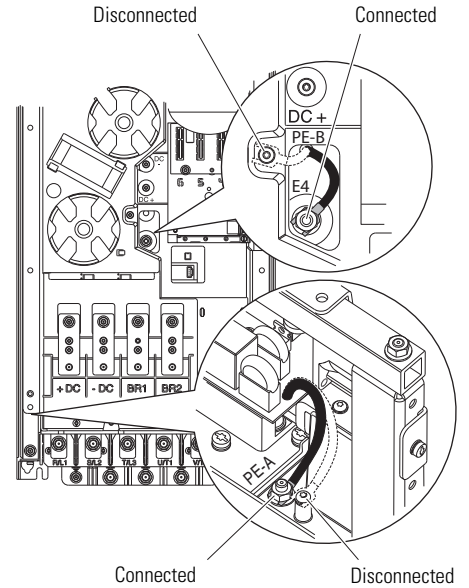
400V: SK-R9-PINT-CF6A, -CF6B, -CF6C, -CF6D
480V: SK-R9-PINT-DF6A, -DF6B, -DF6C, -DF6D



Step 2: See [page 4](#).



IMPORTANT: Power Jumpers may need to be removed during this procedure. Note where the PE-A and PE-B jumper wires are terminated before disassembly. Use the same position when installing the replacement board.

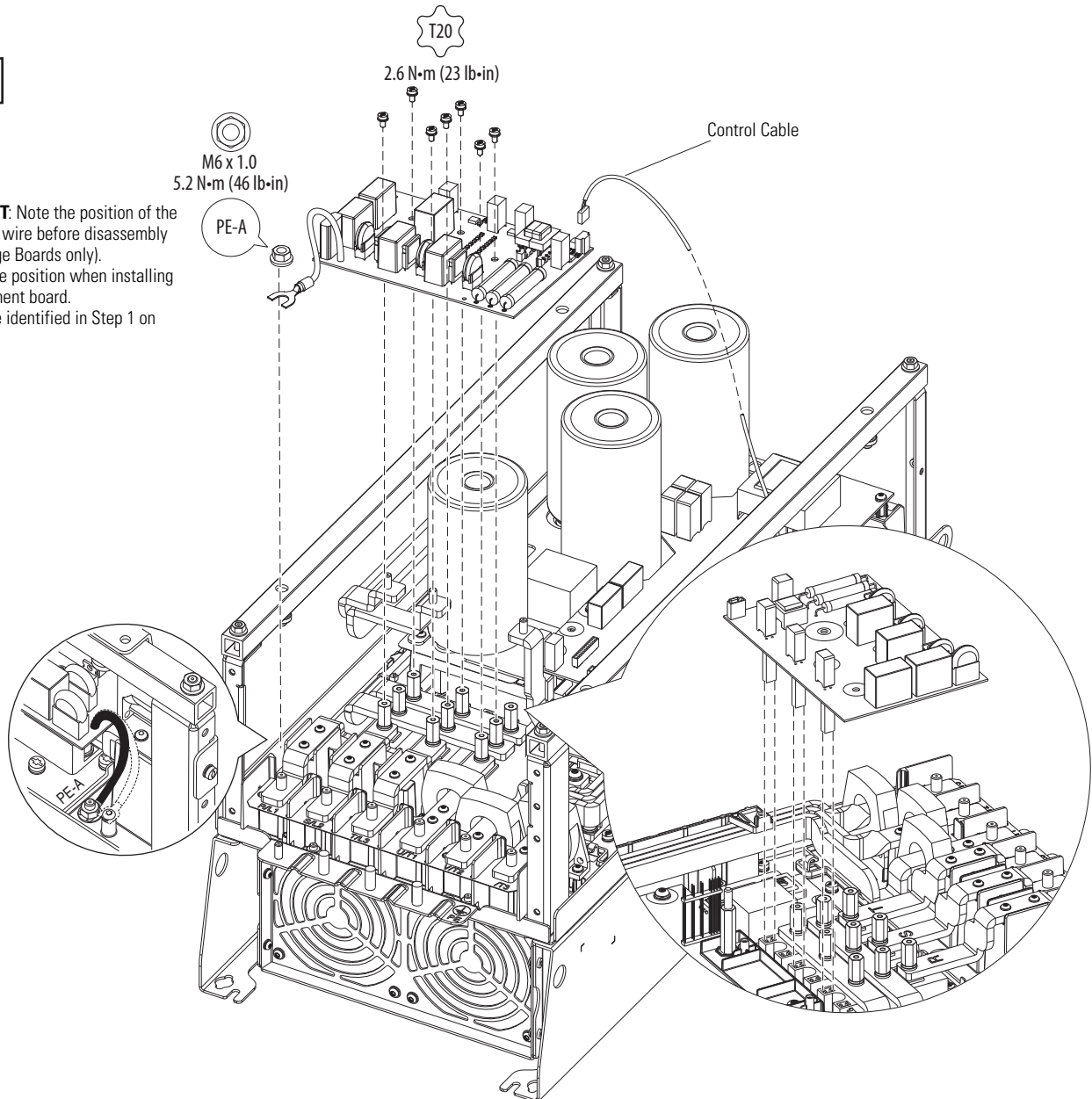


400/480V Frame 6 Drives – AC and DC Precharge Boards

SK-R9-PCG1-DF6, SK-R9-PCG2-DF6

2

IMPORTANT: Note the position of the PE-A jumper wire before disassembly (AC Precharge Boards only). Use the same position when installing the replacement board. Positions are identified in Step 1 on [page 2](#).



ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, carefully align and fully seat the pin connector(s), plug in the control cable, be sure the PE-A jumper wire is properly terminated (AC Precharge Boards only), and install all fasteners and torque as indicated.

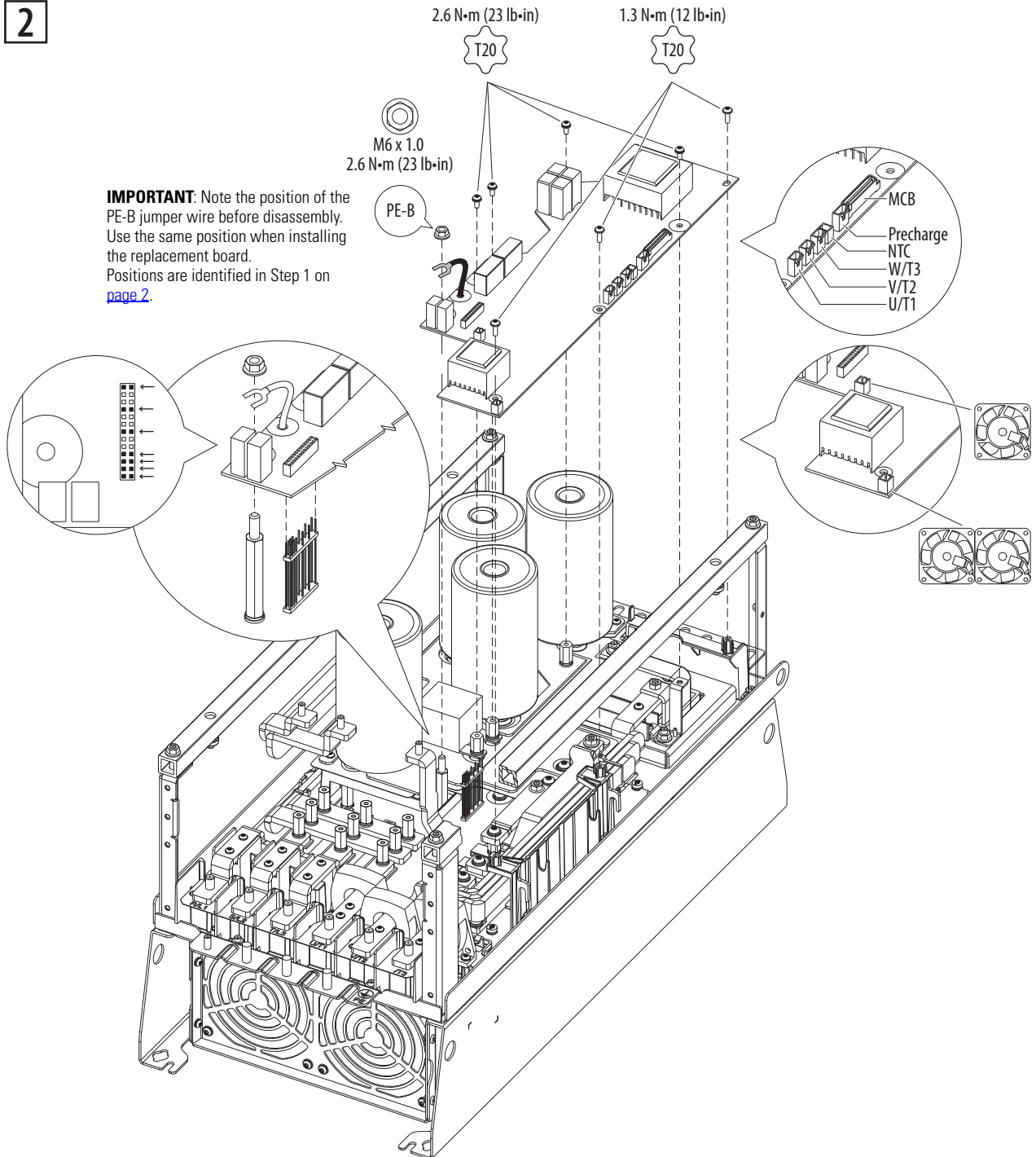
400/480V Frame 6 Drives – Power Interface Board

400V: SK-R9-PINT1-CF6A, -CF6B, -CF6C, -CF6D / 480V: SK-R9PINT1-DF6A,-DF6B, -DF6C, -DF6D



ATTENTION: Replacing the Power Interface Board will result in the loss of drive data including elapsed power consumption, elapsed run times, and preventive maintenance data.

2



IMPORTANT: Note the position of the PE-B jumper wire before disassembly. Use the same position when installing the replacement board. Positions are identified in Step 1 on [page 2](#).

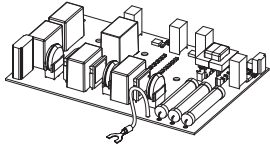


ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, be sure the pin connector is aligned, all plugs are fully seated, the PE-B jumper wire is properly terminated, and all fasteners are installed and torqued as indicated.

600/690V Frame 6 Drives

AC Precharge Board

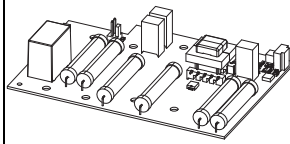
SK-R9-PCG1-FF6



Step 2: See [page 6](#).

DC Precharge Board

SK-R9-PCG2-FF6

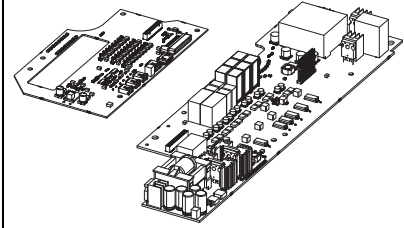


Step 2: See [page 6](#).

Power Interface Boards

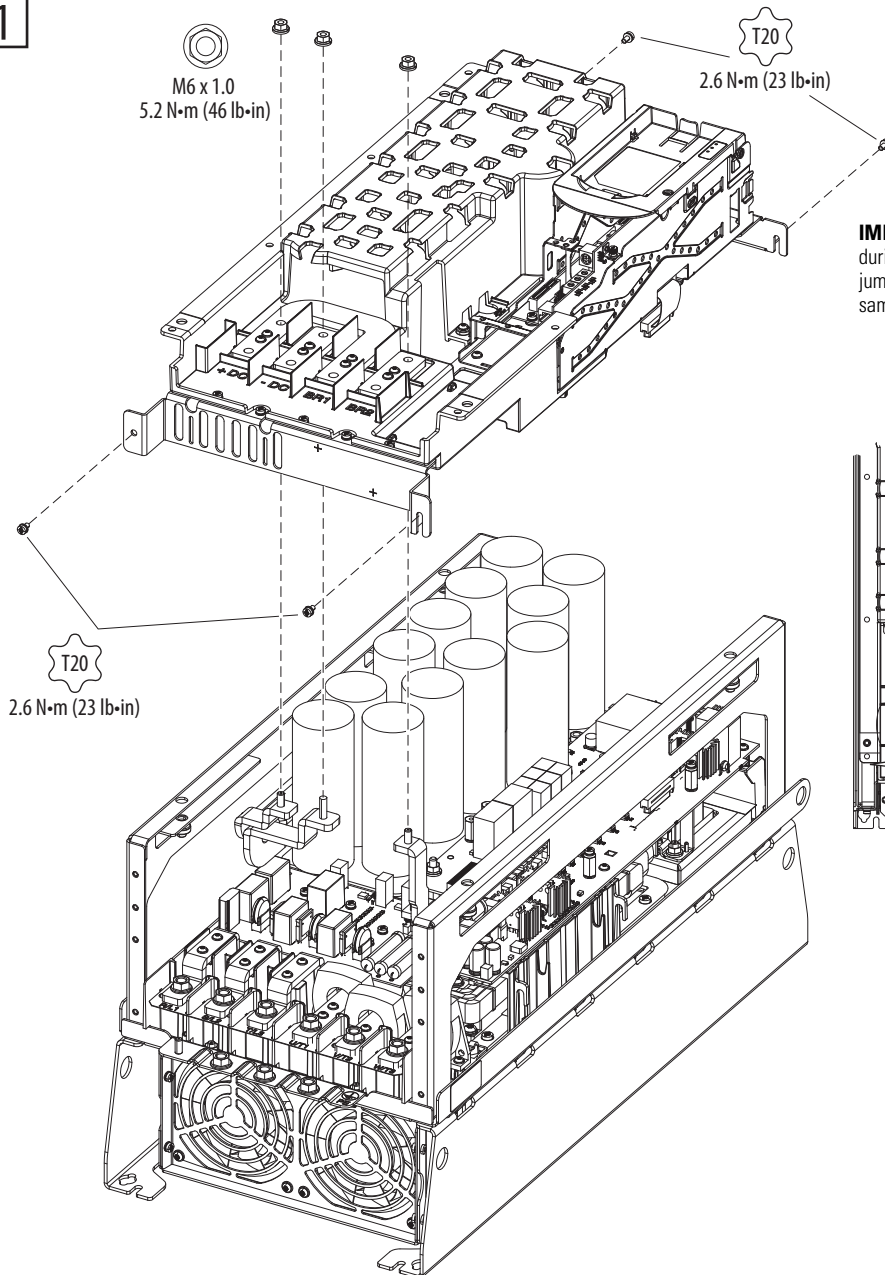
600V: SK-R9-PINT1-EF6A, B, C, D, E, F, G, H, J, K, M, N, P

690V: SK-R9-PINT1-FF6A, B, C, D, E, F, G, H, J, K, L, M, N

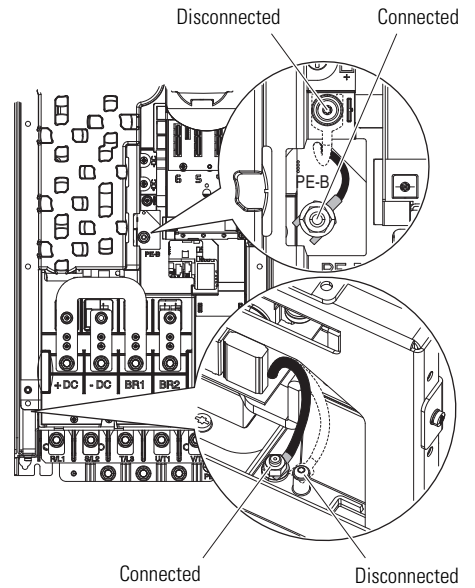


Step 2: See [page 7](#).

1



IMPORTANT: Power Jumpers may need to be removed during this procedure. Note where the PE-A and PE-B jumper wires are terminated before disassembly. Use the same position when installing the replacement board.

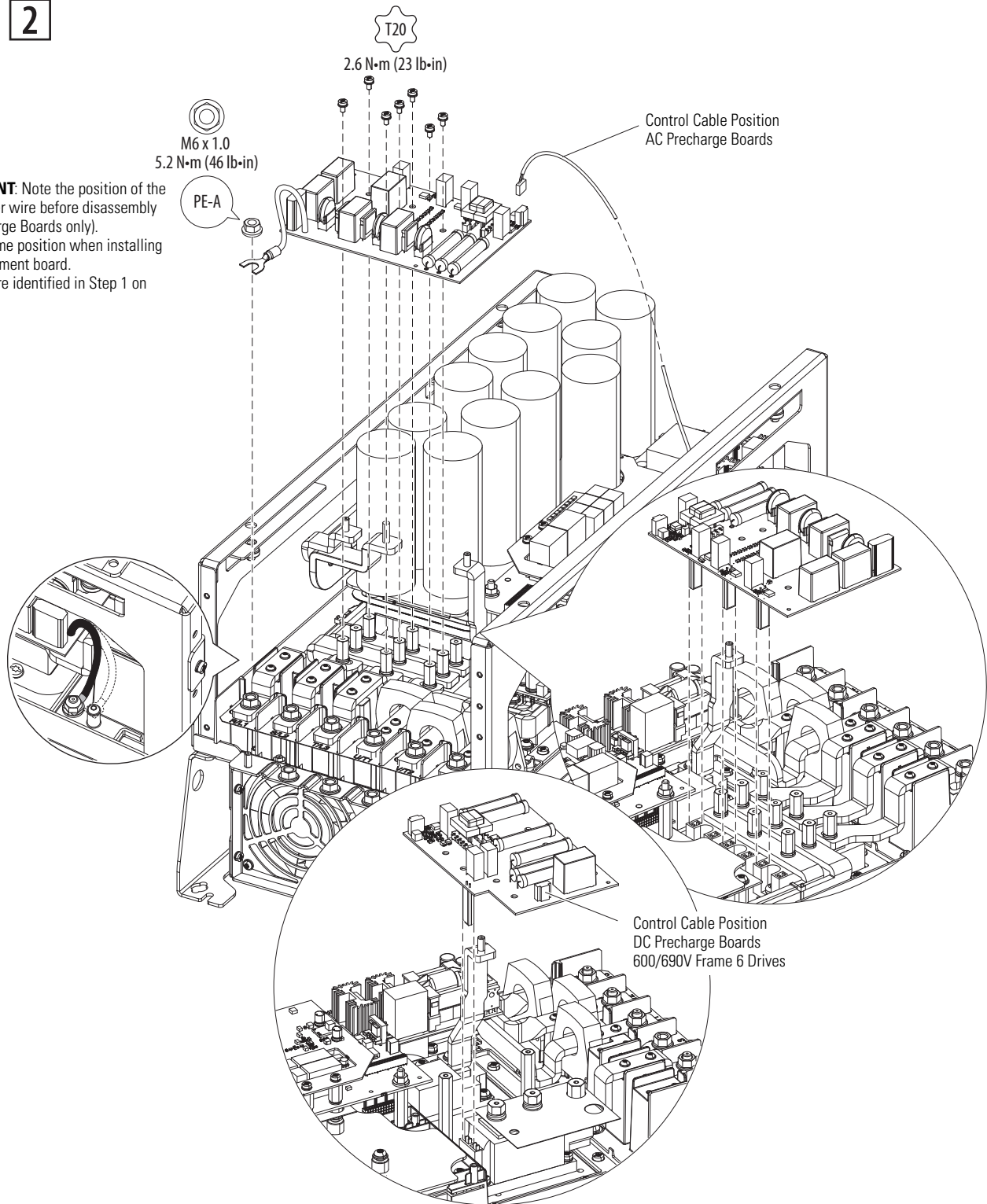


600/690V Frame 6 Drives – AC and DC Precharge Boards

SK-R9-PCG1-FF6, SK-R9-PCG2-FF6

2

IMPORTANT: Note the position of the PE-A jumper wire before disassembly (AC Precharge Boards only). Use the same position when installing the replacement board. Positions are identified in Step 1 on [page 5](#).

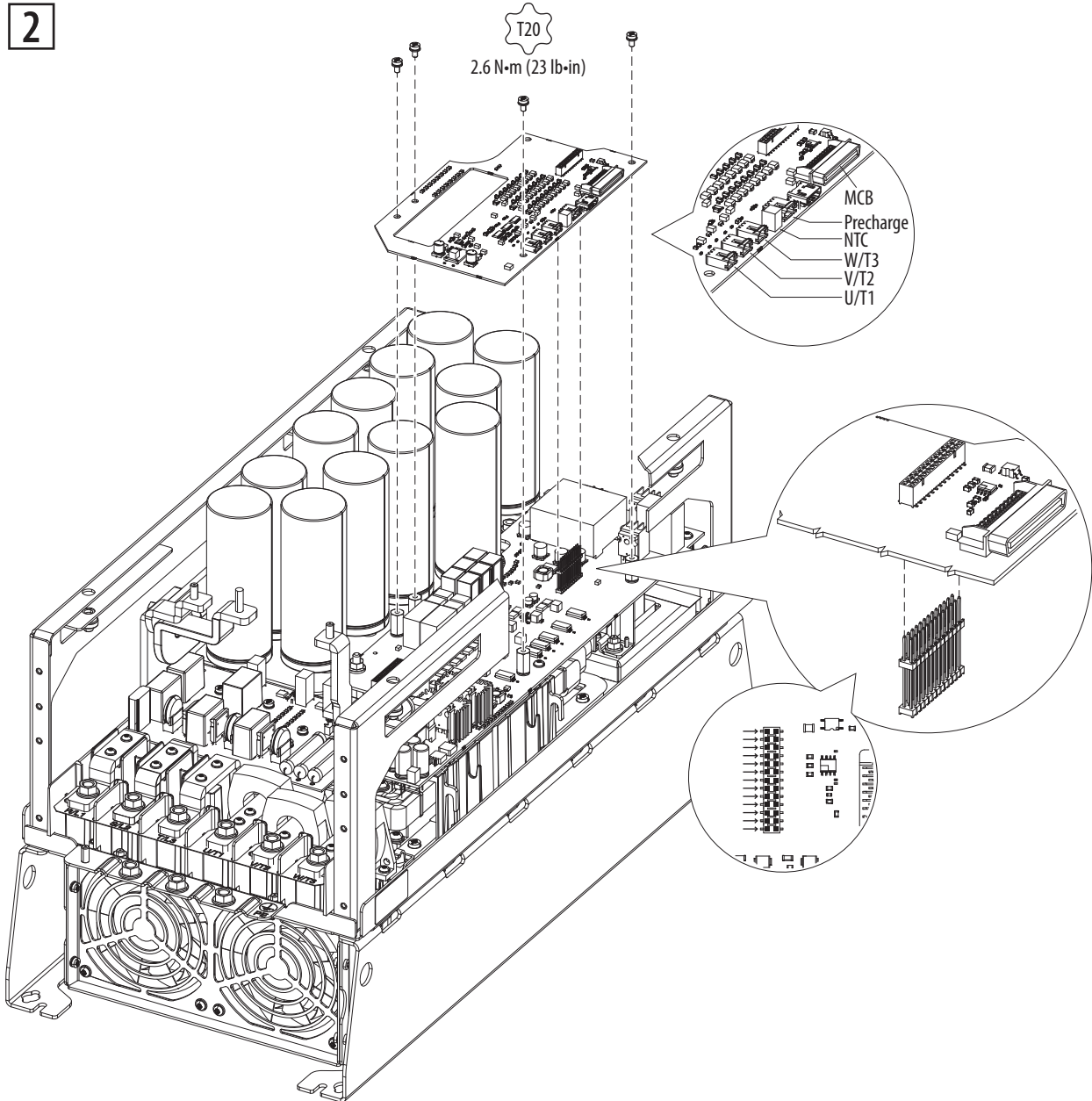


ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, carefully align and fully seat the pin connector(s), plug in the control cable, be sure the PE-A jumper wire is properly terminated (AC Precharge Boards only), and install all fasteners and torque as indicated.

600/690V Frame 6 Drives – Power Interface Boards

600V: SK-R9-PINT1-EF6A, -EF6B, -EF6C, -EF6D, -EF6E, -EF6F, -EF6G, -EF6H, -EF6J, -EF6K, -EF6M, -EF6N, -EF6P

690V: SK-R9-PINT1-FF6A, -FF6B, -FF6C, -FF6D, -FF6E, -FF6F, -FF6G, -FF6H, -FF6J, -FF6K, -FF6L, -FF6M, -FF6N



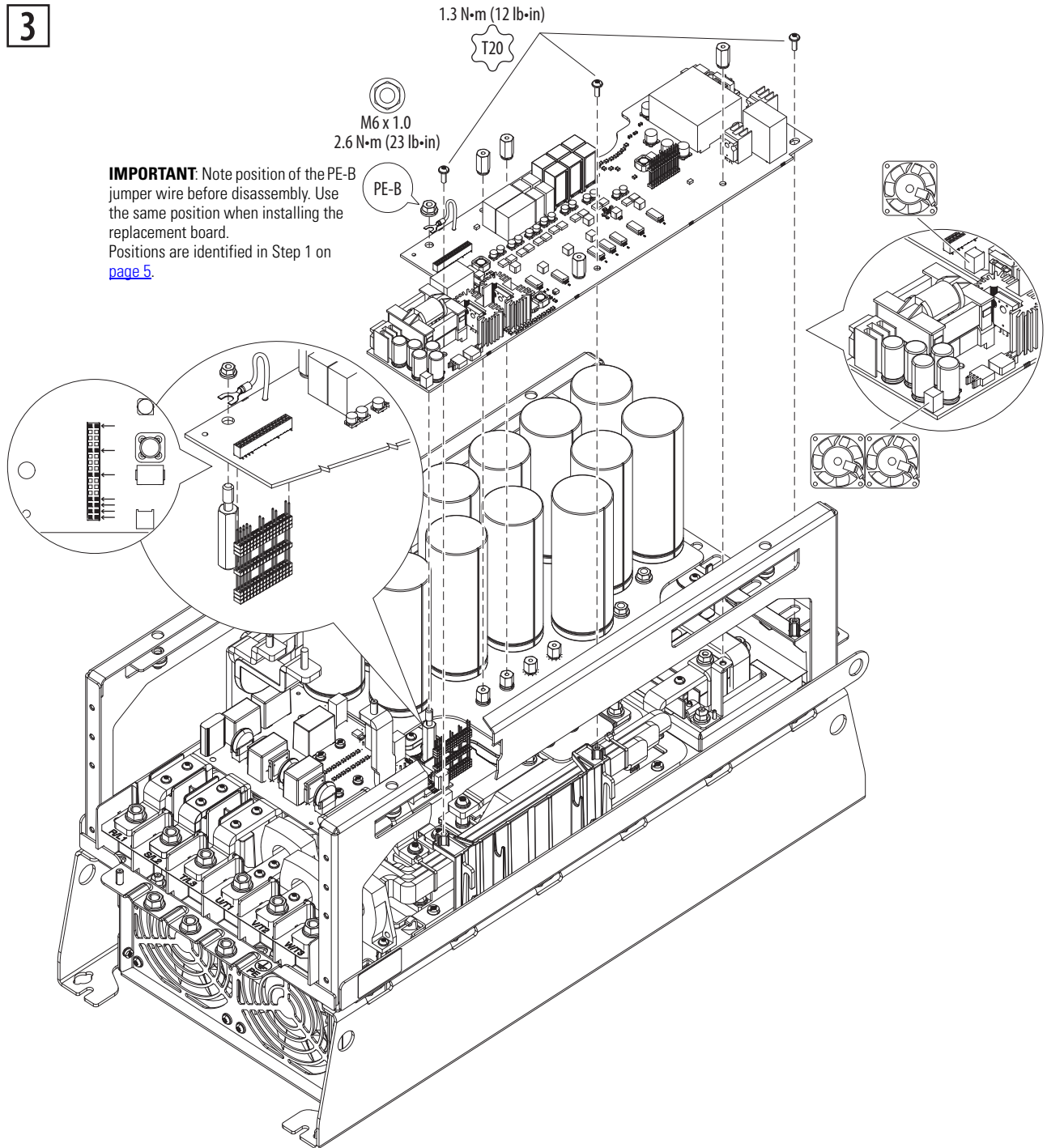
ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, be sure the pin connector is aligned and all plugs are fully seated.

600/690V Frame 6 Drives – Power Interface Boards (Continued)



ATTENTION: Replacing the Power Interface Boards will result in the loss of drive data including elapsed power consumption, elapsed run times, and preventive maintenance data.

3

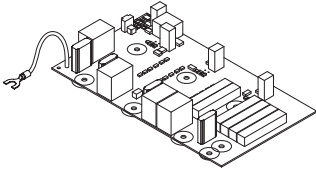


ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, be sure the pin connector is aligned, all plugs are fully seated, the PE-B jumper wire is properly terminated, and all fasteners are installed and torqued as indicated.

400/480V Frame 7 Drives

AC Precharge Board

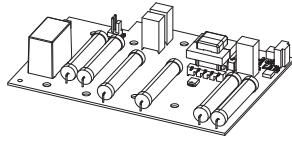
SK-R9-PCG1-DF7



Step 2: See [page 10](#).

DC Precharge Board

SK-R9-PCG2-DF7

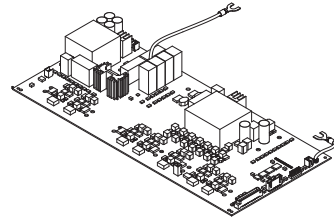


Step 2: See [page 10](#)

Power Interface Board

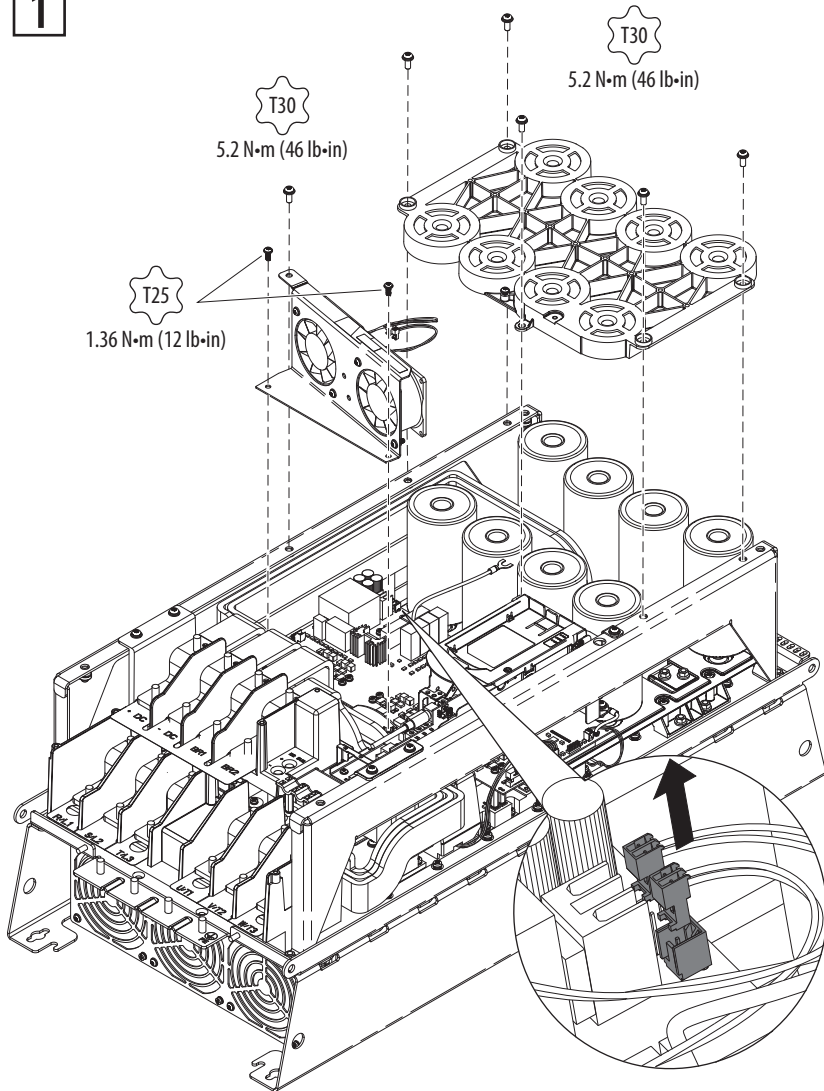
400V: SK-R9-PINT1-CF7A, -CF7B, -CF7C

480V: SK-R9-PINT1-DF7A, -DF7B, -DF7C

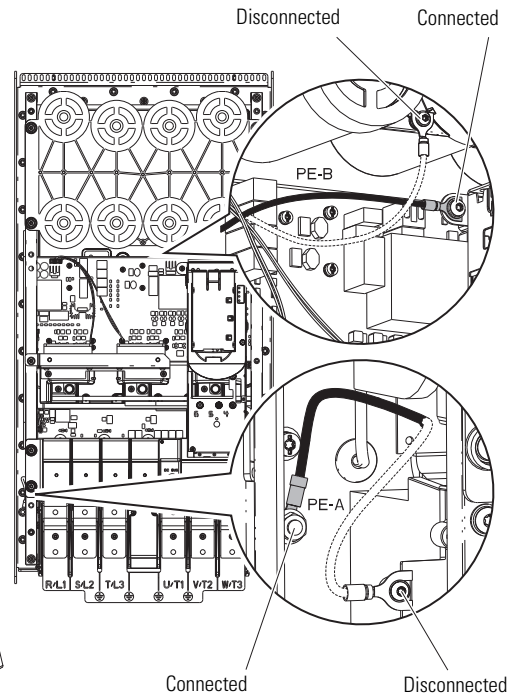


Step 2: See [page 10](#)

1

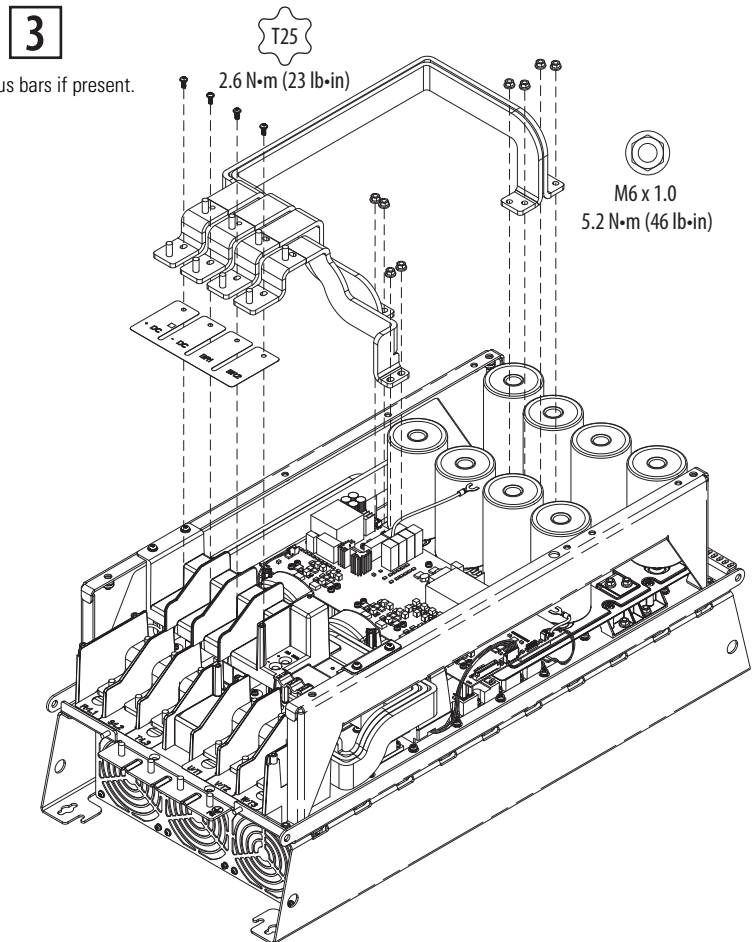
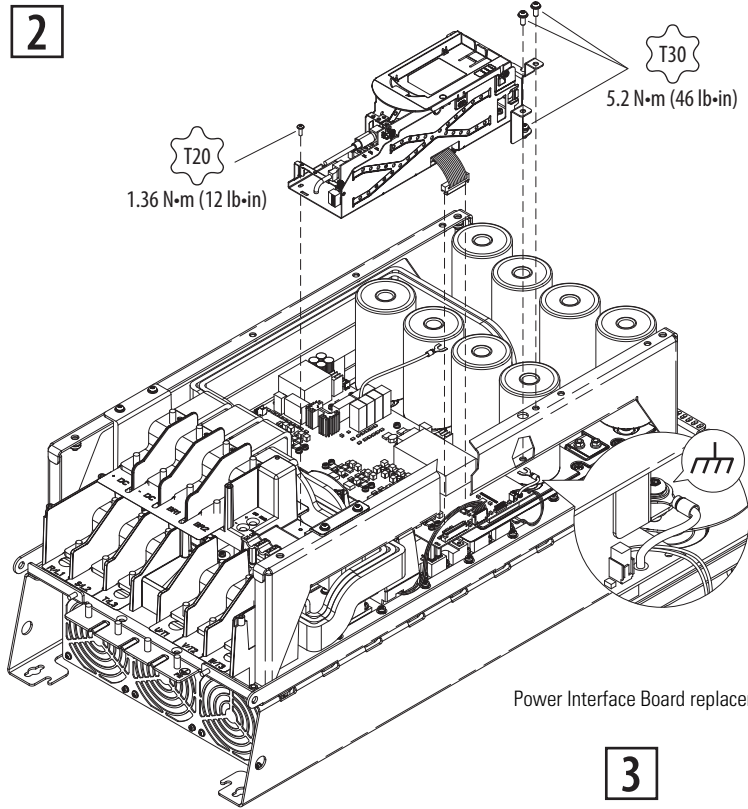


IMPORTANT: Power Jumpers may need to be removed during this procedure. Note where the PE-A and PE-B jumper wires are terminated before disassembly. Use the same position when installing the replacement board.

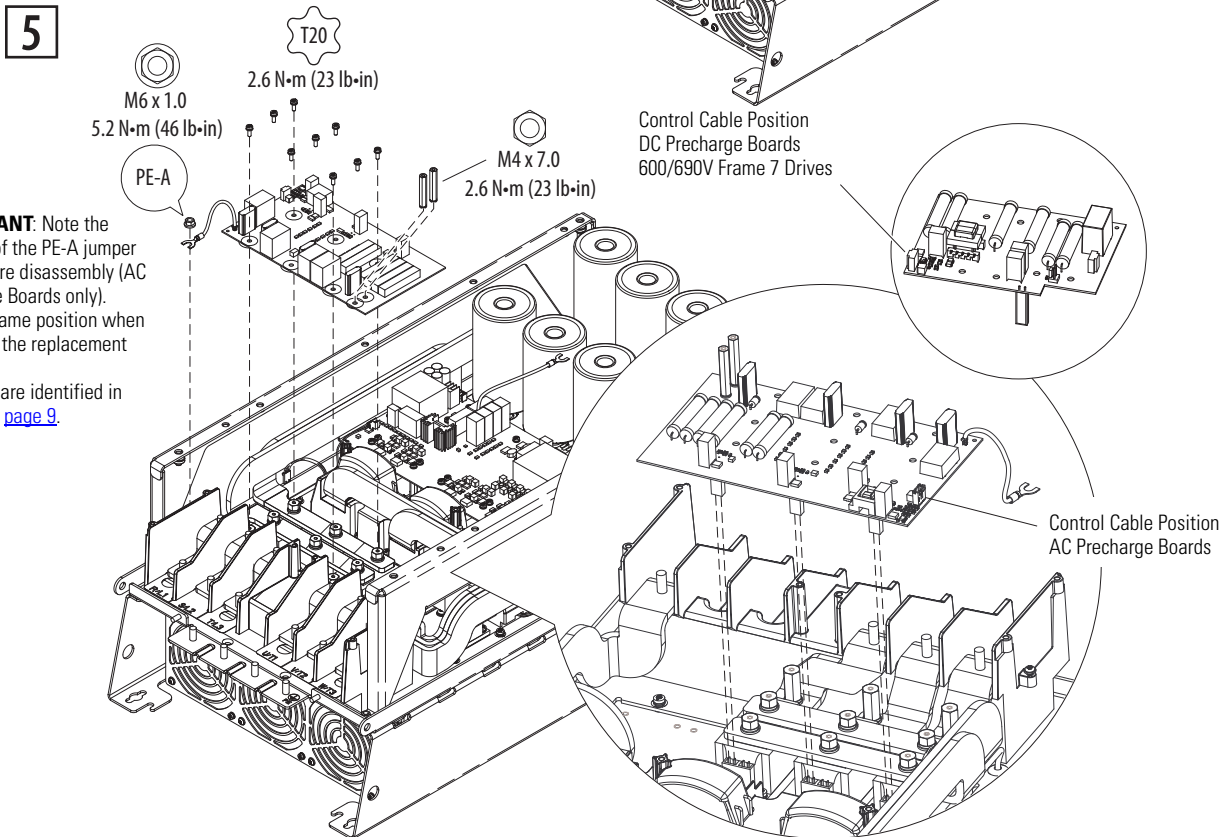
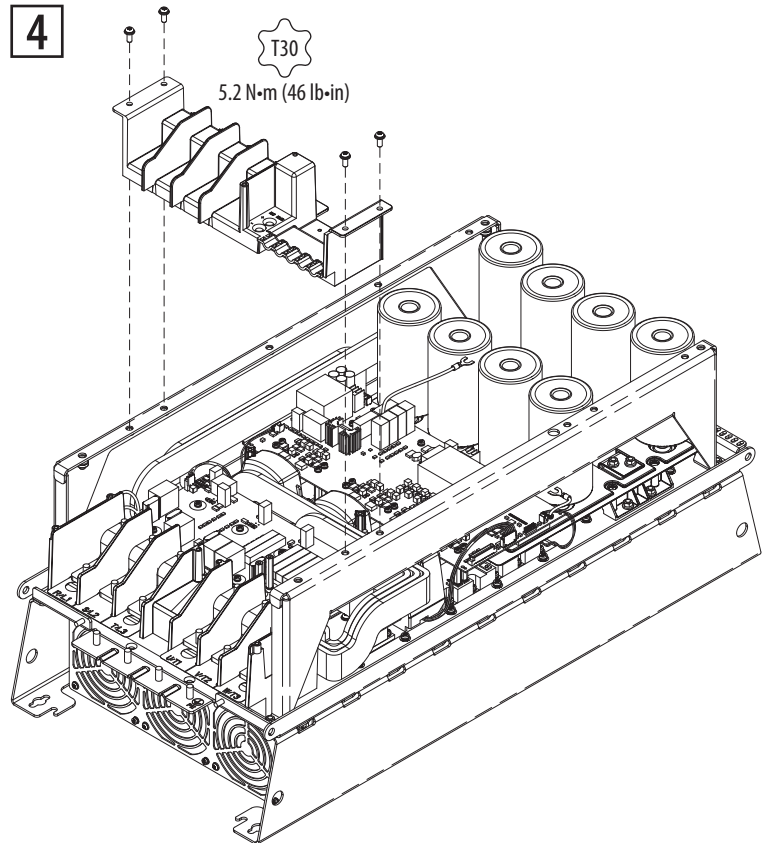


400/480V Frame 7 Drives – AC and DC Precharge Boards

SK-R9-PCG1-DF7, SK-R9-PCG2-DF7



400/480V Frame 7 Drives – AC and DC Precharge Boards (Continued)



IMPORTANT: Note the position of the PE-A jumper wire before disassembly (AC Precharge Boards only). Use the same position when installing the replacement board. Positions are identified in Step 1 on [page 9](#).



ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, carefully align and fully seat the pin connector(s), plug in the control cable, be sure the PE-A jumper wire is properly terminated (AC Precharge Boards only), and install all fasteners and torque as indicated.

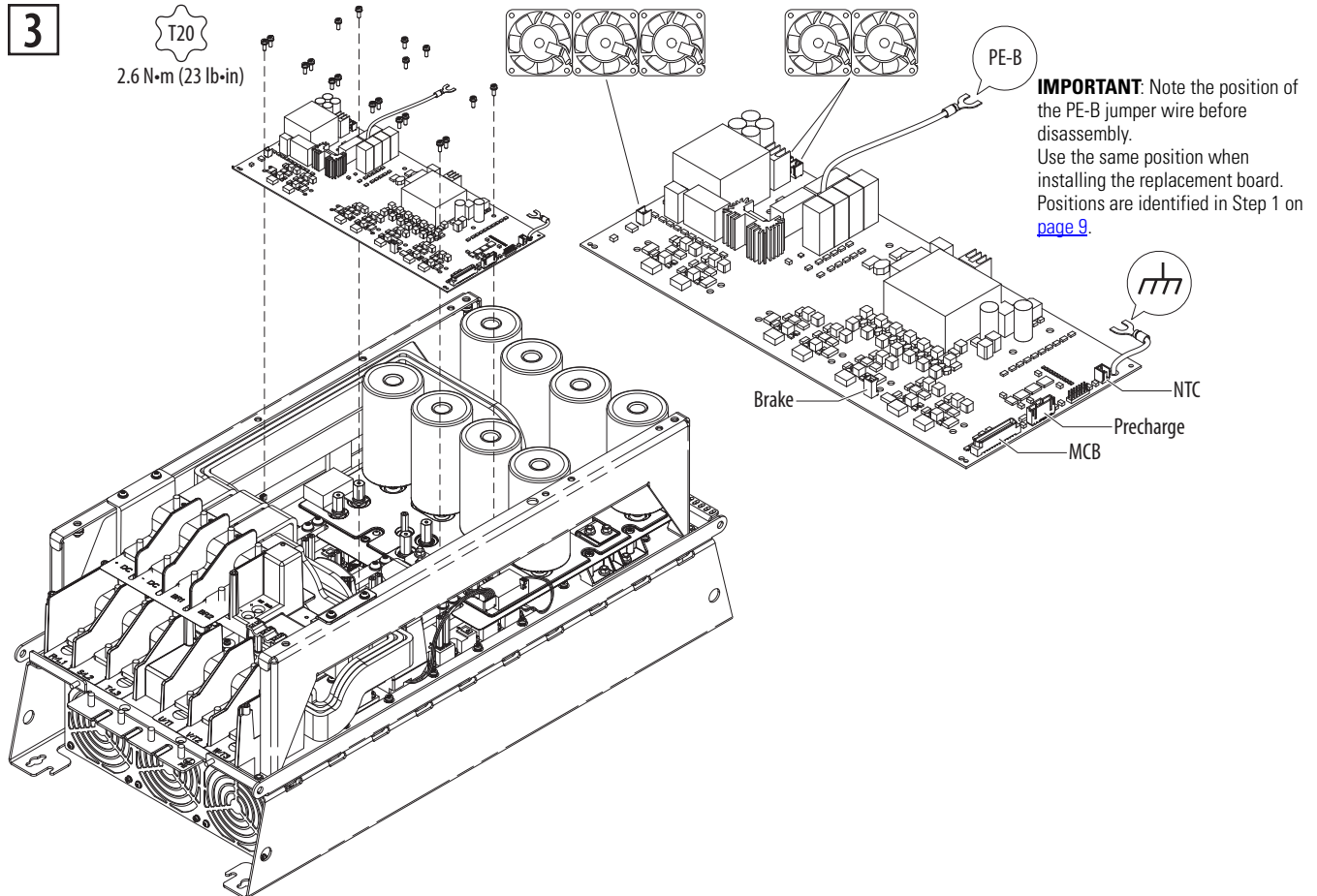
400/480V Frame 7 Drives – Power Interface Board

400V: SK-R9-PINT1-CF7A, -CF7B, -CF7C

480V: SK-R9-PINT1-DF7A, -DF7B, -DF7C



ATTENTION: Replacing the Power Interface Board will result in the loss of drive data including elapsed power consumption, elapsed run times, and preventive maintenance data.

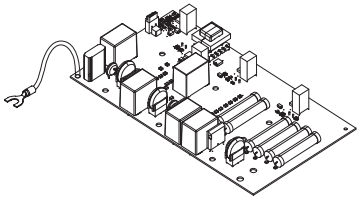


ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, be sure the pin connector is aligned, all plugs are fully seated, the PE-B jumper wire is properly terminated, and all fasteners are installed and torqued as indicated.

600/690V Frame 7 Drives

AC Precharge Board

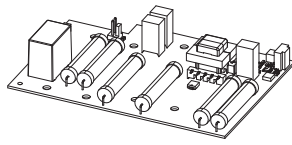
SK-R9-PCG1-FF7



Steps 2: See [page 14](#).

DC Precharge Board

SK-R9-PCG2-FF7

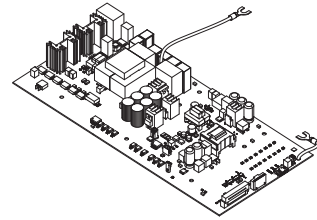


Step 2: See [page 14](#).

Power Interface Board

600V: SK-R9-PINT1-EF7A, -EF7B, -EF7C

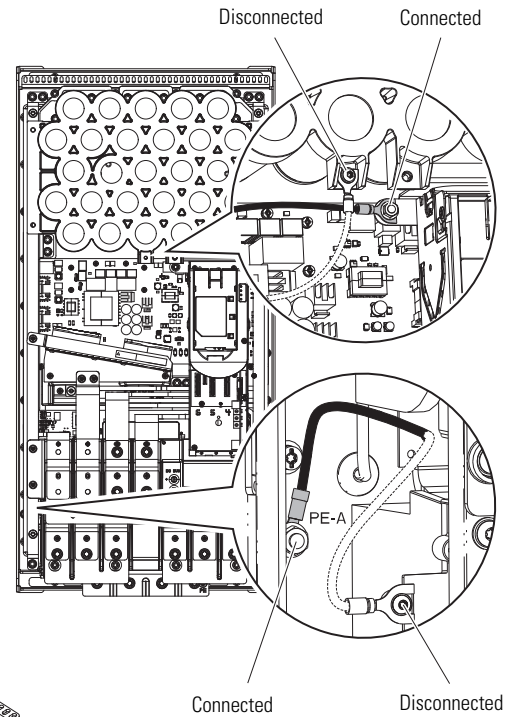
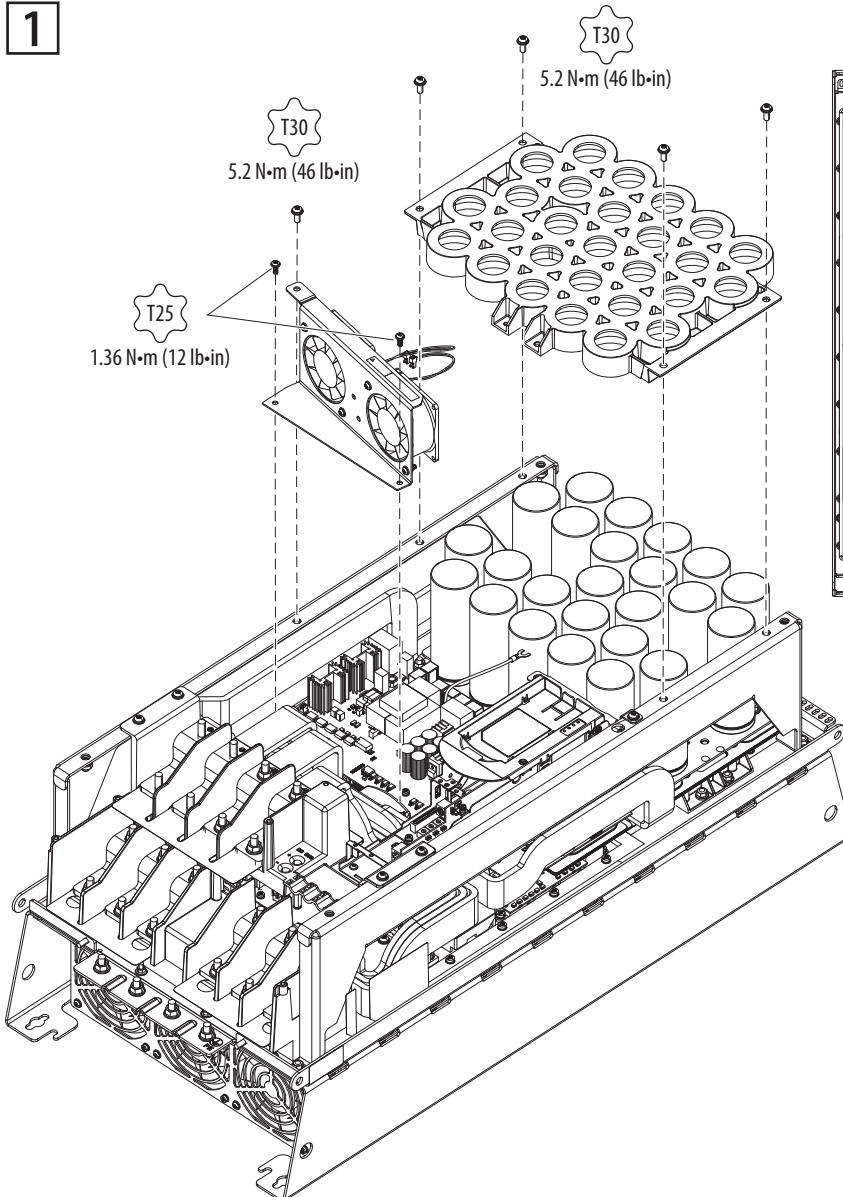
690V: SK-R9-PINT1-FF7A, -FF7B, -FF7C



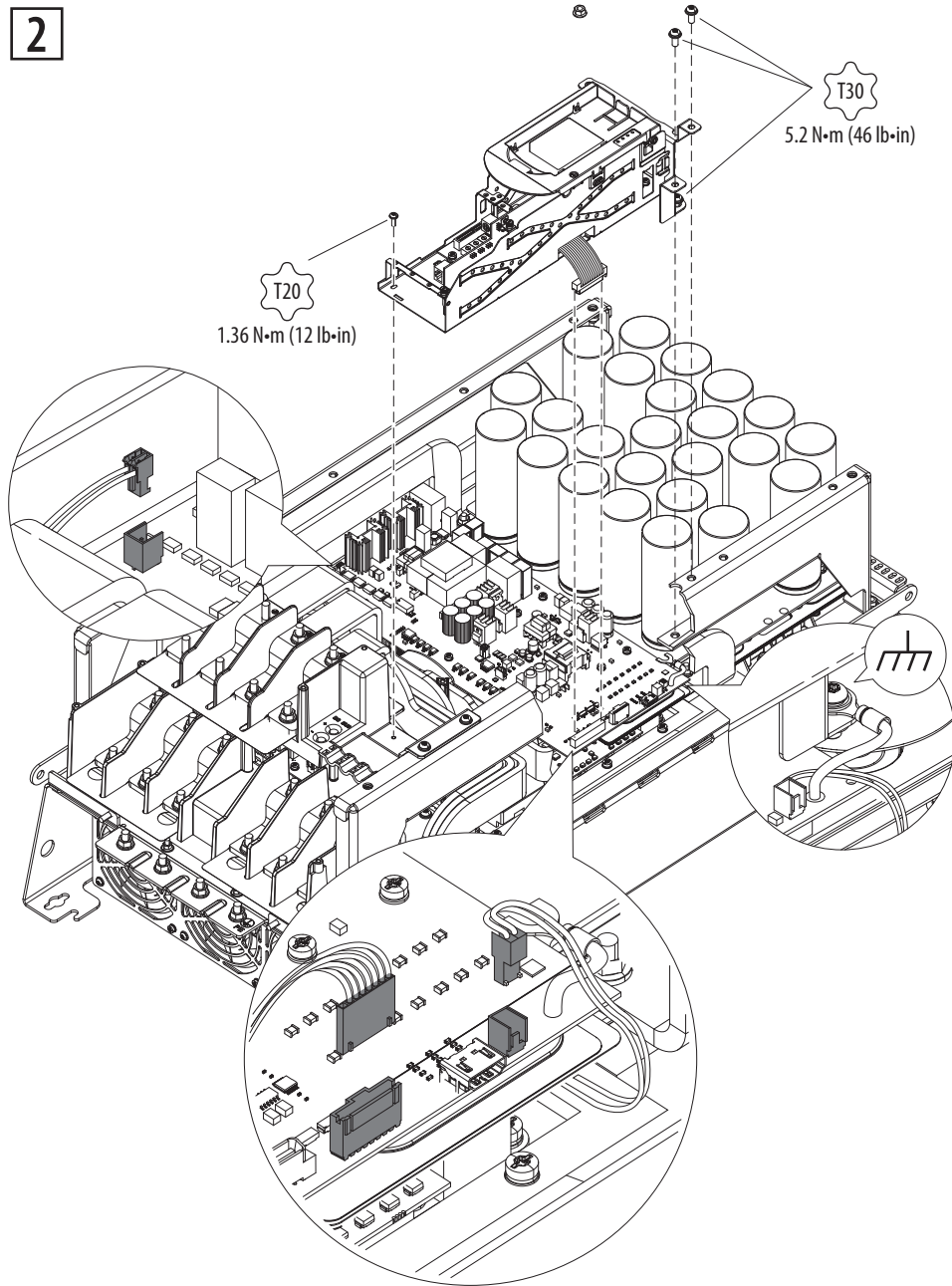
Step 2: See [page 14](#).

IMPORTANT: Power Jumpers may need to be removed during this procedure. Note where the PE-A and PE-B jumper wires are terminated before disassembly. Use the same position when installing the replacement board.

1



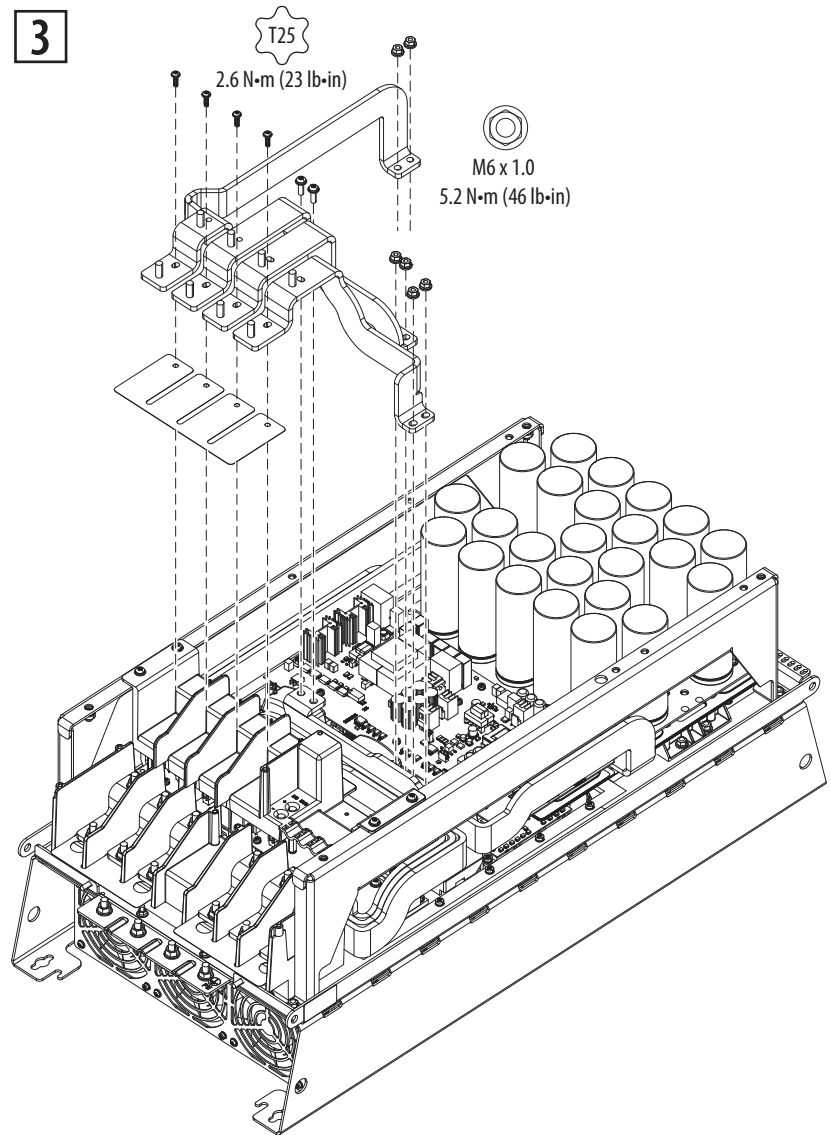
600/690V Frame 7 Drives (Continued)



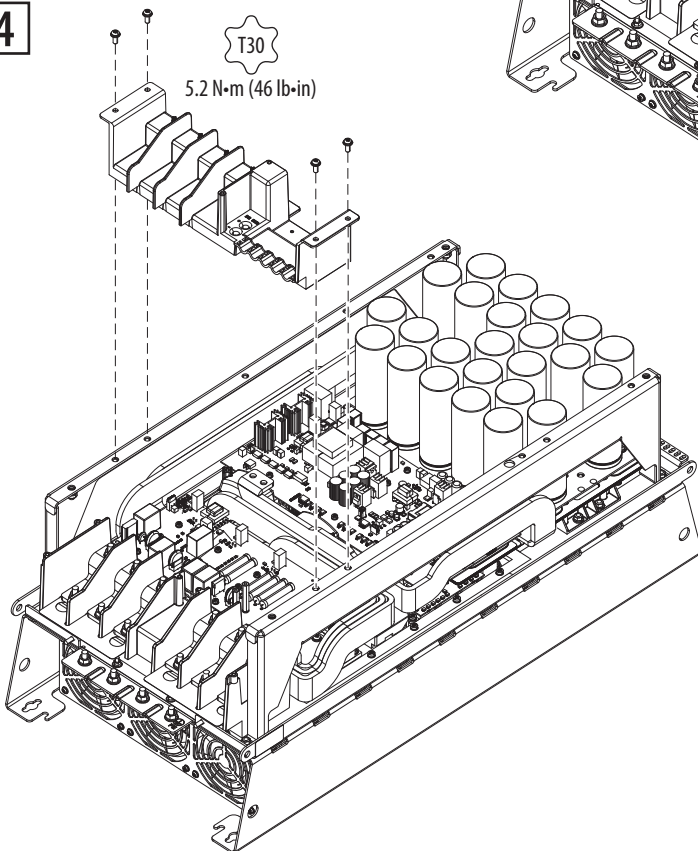
Precharge Board replacement go to Step 3 on [page 15](#).
Power Interface Board replacement go to Step 3 on [page 17](#).

600/690V Frame 7 Drives – AC and DC Precharge Board
 SK-R9-PCG1-FF7, SK-R9-PCG2-FF7

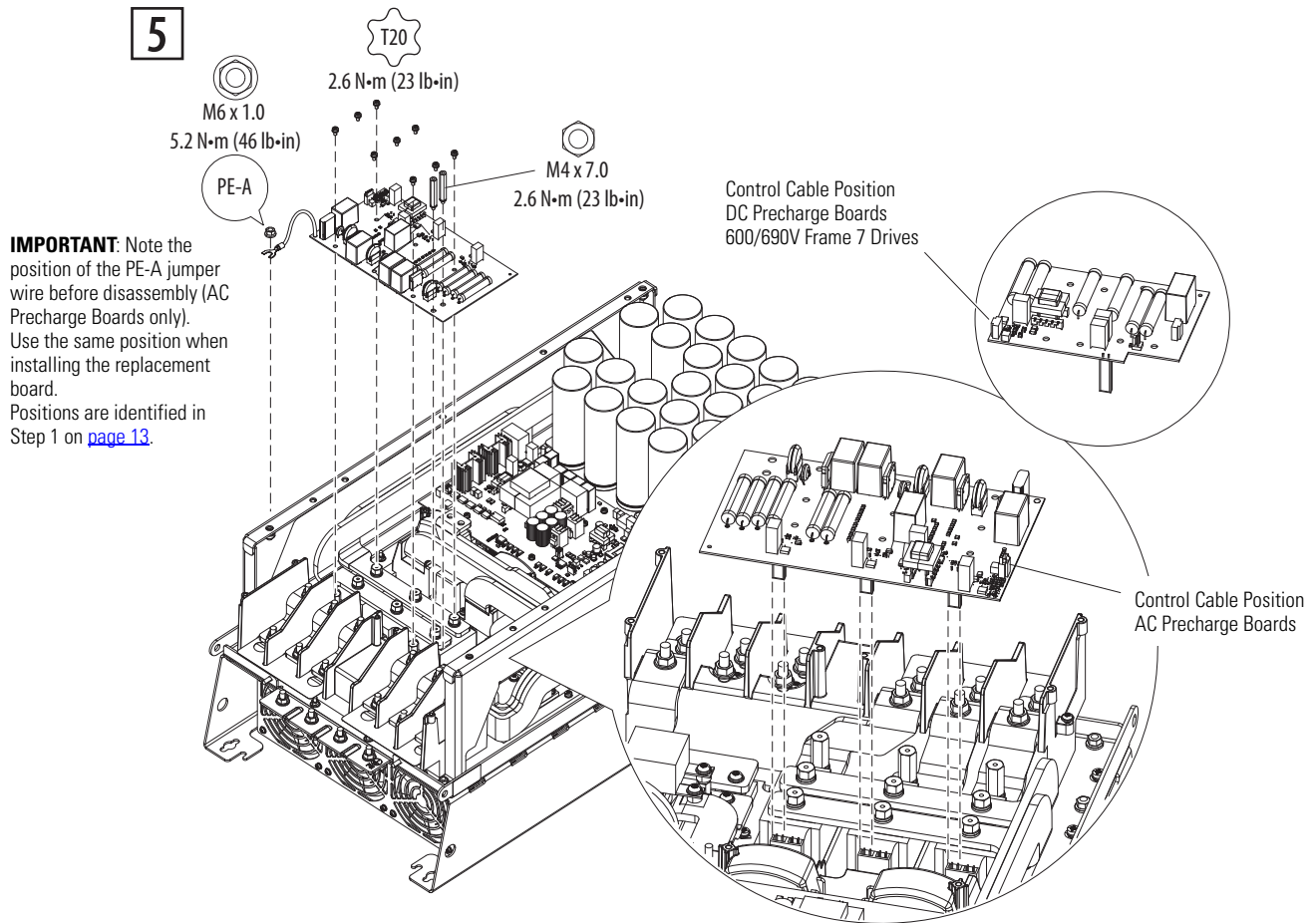
3



4



600/690V Frame 7 Drives – AC and DC Precharge Board (Continued)



ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, carefully align and fully seat the pin connector(s), plug in the control cable, be sure the PE-A jumper wire is properly terminated (AC Precharge Boards only), and install all fasteners and torque as indicated.

600/690V Frame 7 – Power Interface Board

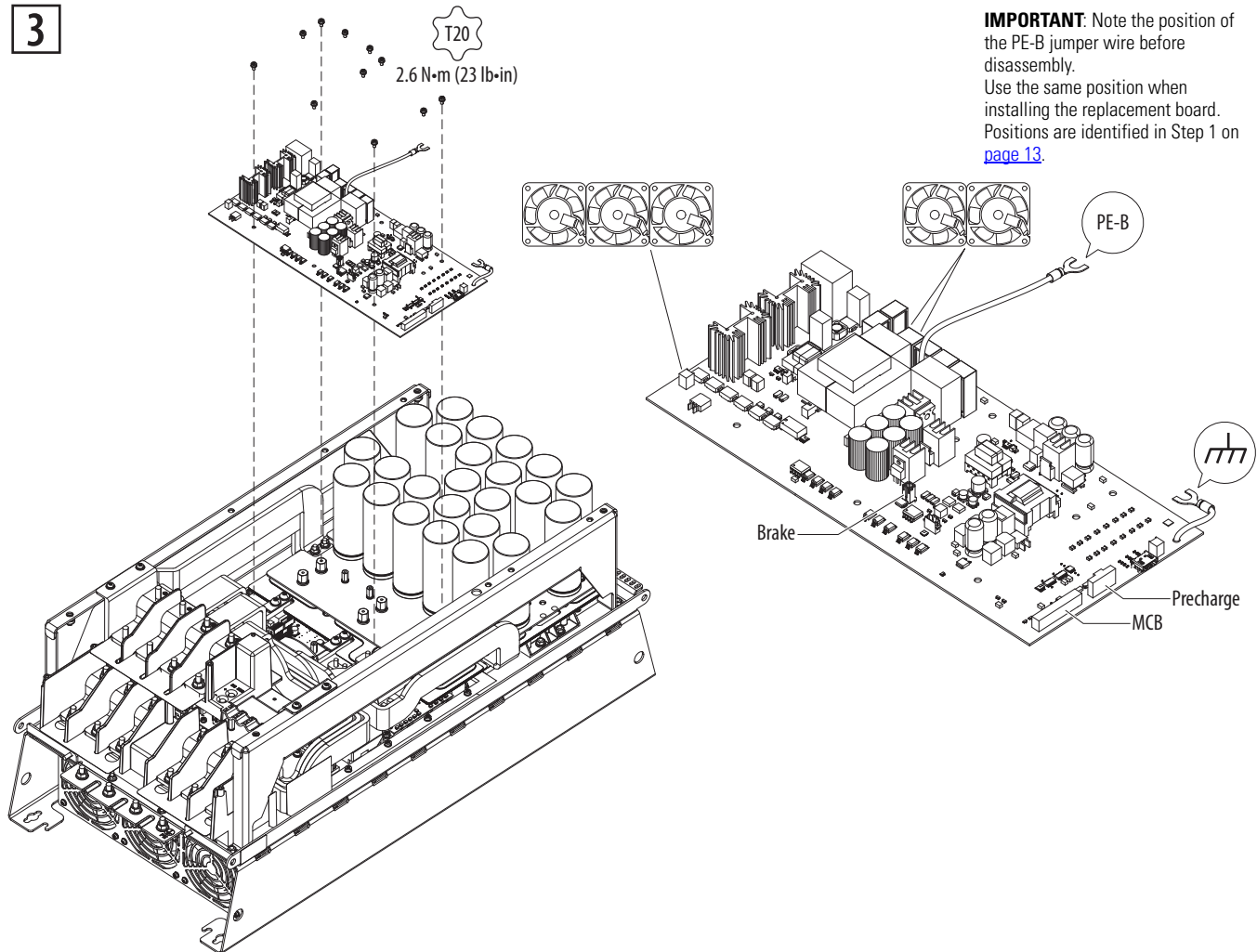
600V: SK-R9-PINT1-EF7A, -EF7B, -EF7C

690V: SK-R9-PINT1-FF7A, -FF7B, -FF7C



ATTENTION: Replacing the Power Interface Board will result in the loss of drive data including elapsed power consumption, elapsed run times, and preventive maintenance data.

3



ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, be sure the pin connector is aligned, all plugs are fully seated, the PE-B jumper wire is properly terminated, and all fasteners are installed and torqued as indicated.

Rockwell Automation Support

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At <http://www.rockwellautomation.com/support> you can find technical and application notes, sample code, and links to software service packs. You can also visit our Support Center at <https://rockwellautomation.custhelp.com/> for software updates, support chats and forums, technical information, FAQs, and to sign up for product notification updates.

In addition, we offer multiple support programs for installation, configuration, and troubleshooting. For more information, contact your local distributor or Rockwell Automation representative, or visit <http://www.rockwellautomation.com/services/online-phone>.

Installation Assistance

If you experience a problem within the first 24 hours of installation, review the information that is contained in this manual. You can contact Customer Support for initial help in getting your product up and running.

| | |
|---------------------------------|--|
| United States or Canada | 1.440.646.3434 |
| Outside United States or Canada | Use the Worldwide Locator at http://www.rockwellautomation.com/rockwellautomation/support/overview.page , or contact your local Rockwell Automation representative. |

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Rockwell Automation tests all of its products to help ensure that they are fully operational when shipped from the manufacturing facility. However, if your product is not functioning and needs to be returned, follow these procedures.

| | |
|-----------------------|---|
| United States | Contact your distributor. You must provide a Customer Support case number (call the phone number above to obtain one) to your distributor to complete the return process. |
| Outside United States | Please contact your local Rockwell Automation representative for the return procedure. |

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PN-316636

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