

PowerFlex 750-Series Board Replacement Kits

Catalog Numbers SK-R9-PINT1-XXXX, SK-R9-PINT2-XXXX, SK-R9-PCG1-XXX, SK-R9-PCG2-XXX

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Waste Electrical and Electronic Equipment



At the end of its life, this equipment should be collected separately from any unsorted municipal waste.

Product Safety

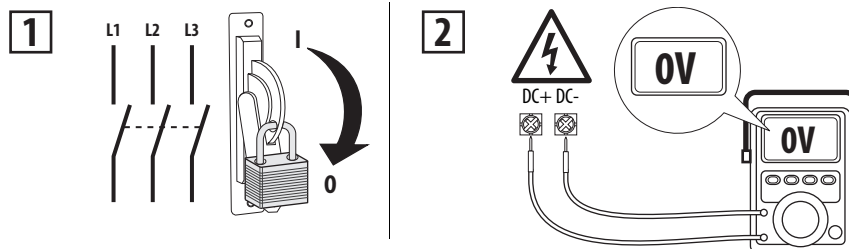


ATTENTION: This drive contains ESD (Electrostatic Discharge) sensitive parts and assemblies. Static control precautions are required when installing, testing, servicing, or repairing this assembly. Component damage may result if ESD control procedures are not followed. If you are not familiar with static control procedures, reference any applicable ESD protection handbook

Personal Safety



ATTENTION: To avoid an electric shock hazard, verify that the voltage on the bus capacitors has discharged completely before servicing.
Frames 6...7: Measure the DC bus voltage at the power terminal block by measuring between the +DC and -DC terminals or between the +DC and -DC test point sockets if equipped. Also measure between the +DC terminal or test point and the chassis, and between the -DC terminal or test point and the chassis. The voltage must be zero for all three measurements.



Board Replacement Kits

These installation instructions support the following board replacement kits.

Board Type	Drive Frame	Voltage	Current Rating	Catalog Number	Page
Power Interface	6	208	92	SK-R9-PINT1-BF6A-G	4
			120	SK-R9-PINT1-BF6A	4
			150	SK-R9-PINT1-BF6B	4
			177	SK-R9-PINT1-BF6C	4
			221	SK-R9-PINT1-BF6D	4
			260	SK-R9-PINT1-BF6F	4
		240	80	SK-R9-PINT1-BF6A-G	4
			104	SK-R9-PINT1-BF6A	4
			130	SK-R9-PINT1-BF6B	4
			154	SK-R9-PINT1-BF6C	4
			192	SK-R9-PINT1-BF6D	4
			260	SK-R9-PINT1-BF6F	4
		400	104	SK-R9-PINT1-CF6A-G	4
			140	SK-R9-PINT1-CF6A	4
			170	SK-R9-PINT1-CF6B	4
			205	SK-R9-PINT1-CF6C	4
		480	96	SK-R9-PINT1-DF6A-G	4
			125	SK-R9-PINT1-DF6A	4
	156		SK-R9-PINT1-DF6B	4	
	186		SK-R9-PINT1-DF6C	4	
	248		SK-R9-PINT1-DF6D	4	
	600	12	SK-R9-PINT1-EF6A	7	
		18	SK-R9-PINT1-EF6B	7	
		23	SK-R9-PINT1-EF6C	7	
		24	SK-R9-PINT1-EF6D	7	
		28	SK-R9-PINT1-EF6E	7	
		33	SK-R9-PINT1-EF6F	7	
		42	SK-R9-PINT1-EF6G	7	
		53	SK-R9-PINT1-EF6H	7	
		63	SK-R9-PINT1-EF6J	7	
		77	SK-R9-PINT1-EF6K	7	
		99	SK-R9-PINT1-EF6M	7	
		125	SK-R9-PINT1-EF6N	7	
		144	SK-R9-PINT1-EF6P	7	

Board Type	Drive Frame	Voltage	Current Rating	Catalog Number	Page		
Power Interface	6	690	12	SK-R9-PINT1-FF6A	7		
			15	SK-R9-PINT1-FF6B	7		
			20	SK-R9-PINT1-FF6C	7		
			23	SK-R9-PINT1-FF6D	7		
			30	SK-R9-PINT1-FF6E	7		
			34	SK-R9-PINT1-FF6F	7		
			46	SK-R9-PINT1-FF6G	7		
			50	SK-R9-PINT1-FF6H	7		
			61	SK-R9-PINT1-FF6J	7		
			82	SK-R9-PINT1-FF6K	7		
			98	SK-R9-PINT1-FF6L	7		
			119	SK-R9-PINT1-FF6M	7		
			142	SK-R9-PINT1-FF6N	7		
			7	208	260	SK-R9-PINT2-BF7A-G	11
					359	SK-R9-PINT2-BF7A	11
					414	SK-R9-PINT2-BF7B	11
					477	SK-R9-PINT2-BF7C	11
				240	260	SK-R9-PINT2-BF7A-G	11
	312	SK-R9-PINT2-BF7A			11		
	360	SK-R9-PINT2-BF7B			11		
	477	SK-R9-PINT2-BF7C			11		
	400	260		SK-R9-PINT2-CF7A-G	11		
		302		SK-R9-PINT2-CF7A	11		
		367		SK-R9-PINT2-CF7B	11		
		456		SK-R9-PINT2-CF7C	11		
	480	477		SK-R9-PINT2-CF7D	11		
		248		SK-R9-PINT2-DF7A-G	11		
		302		SK-R9-PINT2-DF7A	11		
		361		SK-R9-PINT2-DF7B	11		
	600	415		SK-R9-PINT2-DF7C	11		
		477		SK-R9-PINT2-DF7D	11		
		192		SK-R9-PINT2-EF7A	16		
	690	242		SK-R9-PINT2-EF7B	16		
		289		SK-R9-PINT2-EF7C	16		
		171		SK-R9-PINT2-FF7A	16		
		212		SK-R9-PINT2-FF7B	16		
		263		SK-R9-PINT2-FF7C	16		

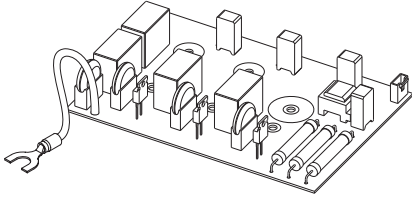
Board Type	Drive Frame	Voltage	Current Rating	Catalog Number	Page
DC Precharge	6	208/240	All	SK-R9-PCG2-DF6	4
		400/480	All	SK-R9-PCG2-DF6	4
		600/690	All	SK-R9-PCG2-FF6	7
	7	208/240	All	SK-R9-PCG2-DF7	11
		400/480	All	SK-R9-PCG2-DF7	11
		600/690	All	SK-R9-PCG2-FF7	16

Board Type	Drive Frame	Voltage	Current Rating	Catalog Number	Page
AC Precharge	6	208/240	All	SK-R9-PCG1-BF6	4
		400/480	All	SK-R9-PCG1-DF6	4
		600/690	All	SK-R9-PCG1-FF6	7
	7	208/240	All	SK-R9-PCG1-BF7	11
		400/480	All	SK-R9-PCG1-DF7	11
		600/690	All	SK-R9-PCG1-FF7	16

208/240V, 400/480V Frame 6 Drives

AC Precharge Board

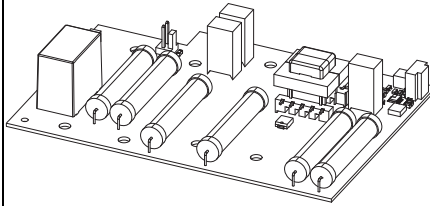
SK-R9-PCG1-BF6
SK-R9-PCG1-DF6



Step 2: See [page 5](#).

DC Precharge Board

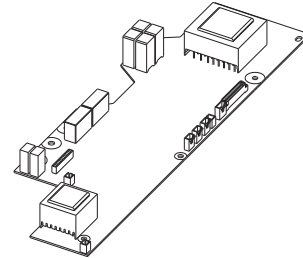
SK-R9-PCG2-DF6



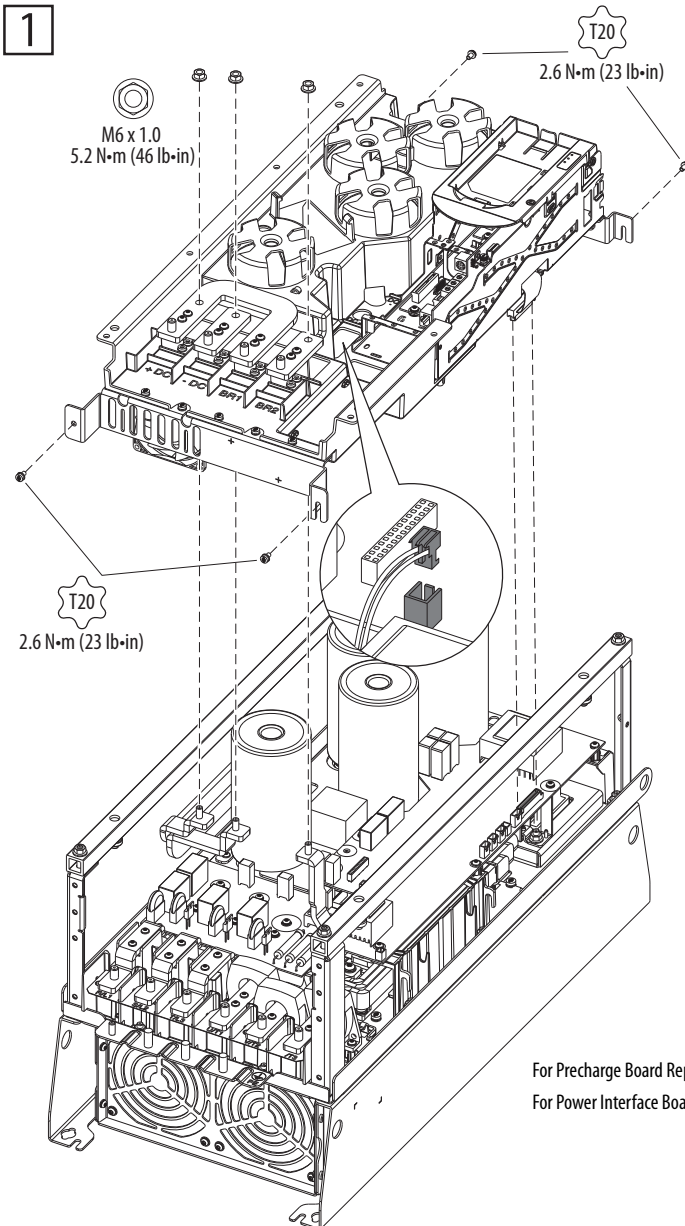
Step 2: See [page 5](#).

Power Interface Board

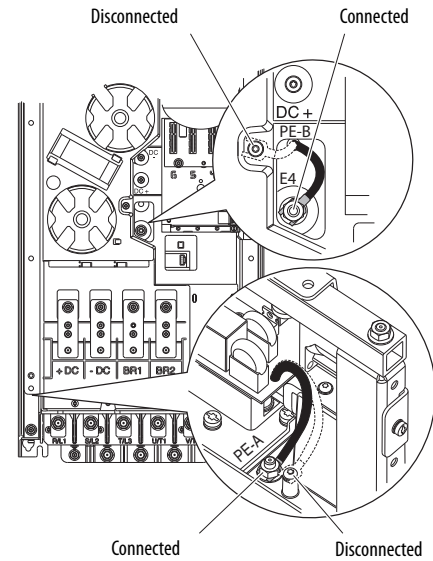
208V: SK-R9-PINT1-BF6A-G, -BF6A, -BF6B, -BF6C, -BF6D, -BF6F
240V: SK-R9-PINT1-BF6A-G, -BF6A, -BF6B, -BF6C, -BF6D, -BF6F
400V: SK-R9-PINT1-CF6A-G, -CF6A, -CF6B, -CF6C, -CF6D
480V: SK-R9-PINT1-DF6A-G, -DF6A, -DF6B, -DF6C, -DF6D



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



IMPORTANT: Power jumpers must 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.



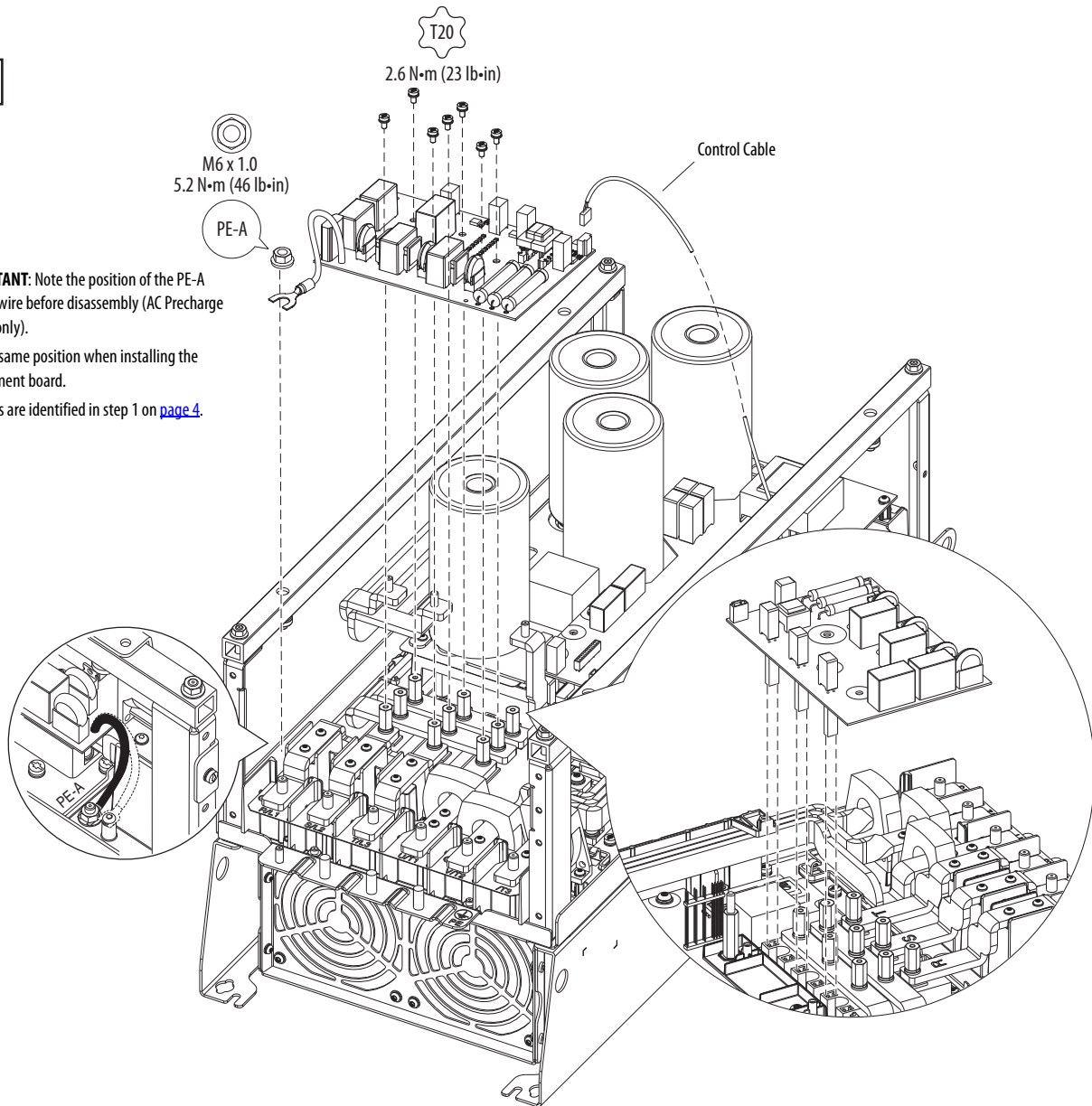
For Precharge Board Replacement, go to step 2 on [page 5](#).

For Power Interface Board Replacement, go to step 2 on [page 6](#).

208/240V, 400/480V Frame 6 Drives – AC and DC Precharge Boards

SK-R9-PCG1-BF6, 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 4](#).



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 connectors, plug in the control cable, be sure that the PE-A jumper wire is properly terminated (AC Precharge Boards only), and install all fasteners and torque as indicated.

208/240V, 400/480V Frame 6 Drives – Power Interface Board

208V: SK-R9-PINT1-BF6A-G, -BF6A, -BF6B, -BF6C, -BF6D, -BF6F

240V: SK-R9-PINT1-BF6A-G, -BF6A, -BF6B, -BF6C, -BF6D, -BF6F

400V: SK-R9-PINT1-CF6A-G, -CF6A, -CF6B, -CF6C, -CF6D

480V: SK-R9-PINT1-DF6A-G, -DF6A, -DF6B, -DF6C, -DF6D

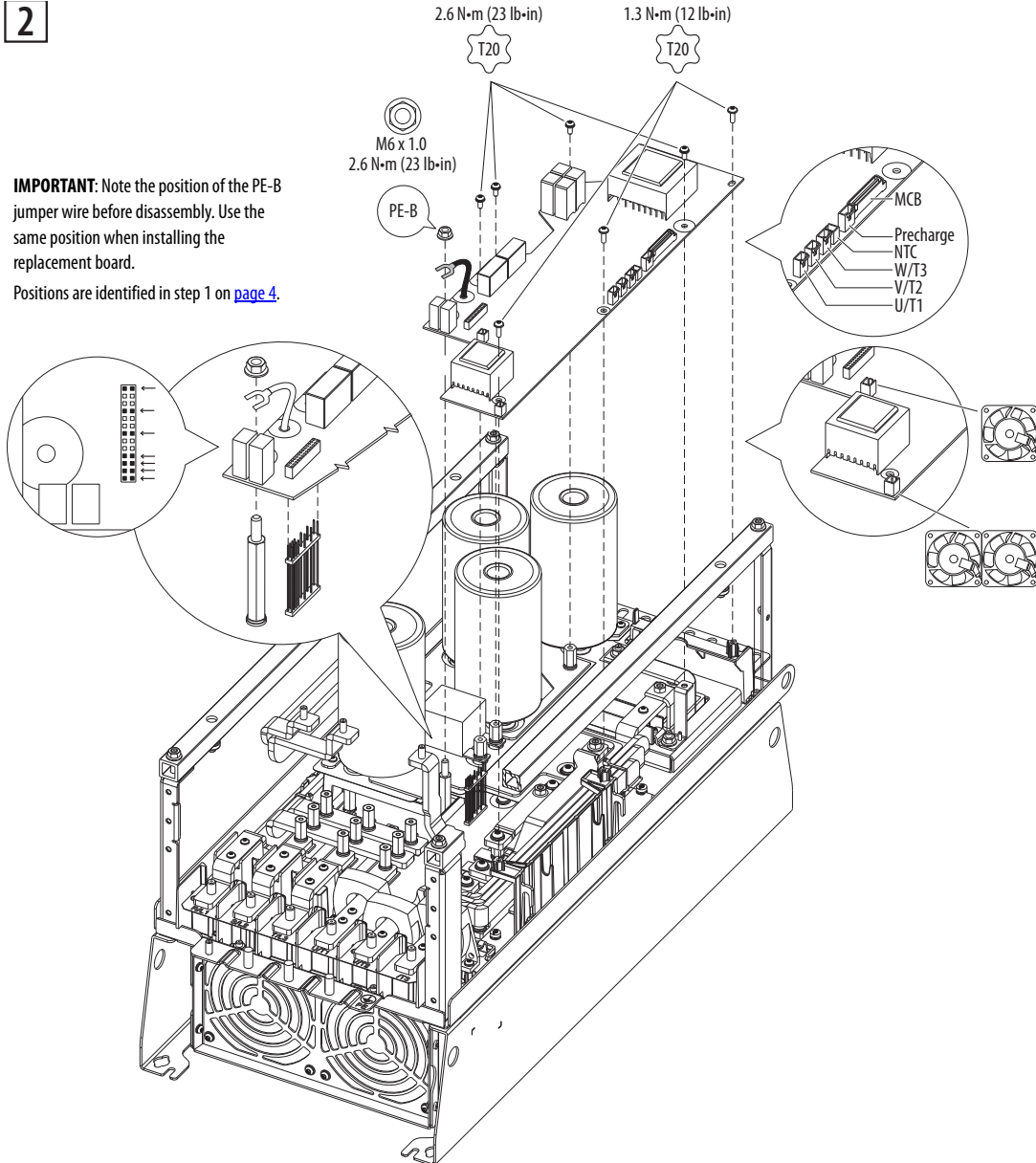


ATTENTION: Replacing the power interface board results in the loss of drive data including elapsed power consumption, elapsed runtimes, and preventive maintenance data.

2

IMPORTANT: Note the position of the PE-B jumper wire before disassembly. Use the same position when installing the replacement board.

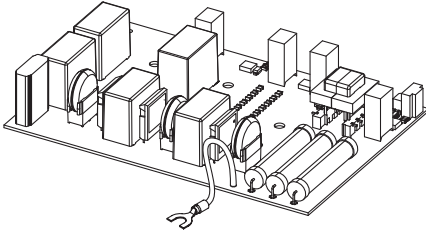
Positions are identified in step 1 on [page 4](#).



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 that 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.

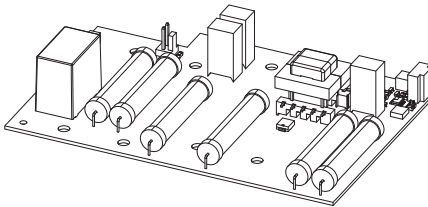
600/690V Frame 6 Drives

AC Precharge Board SK-R9-PCG1-FF6



Step 2: See [page 8](#).

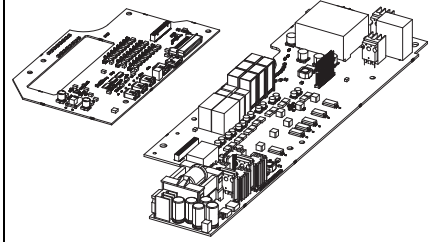
DC Precharge Board SK-R9-PCG2-FF6



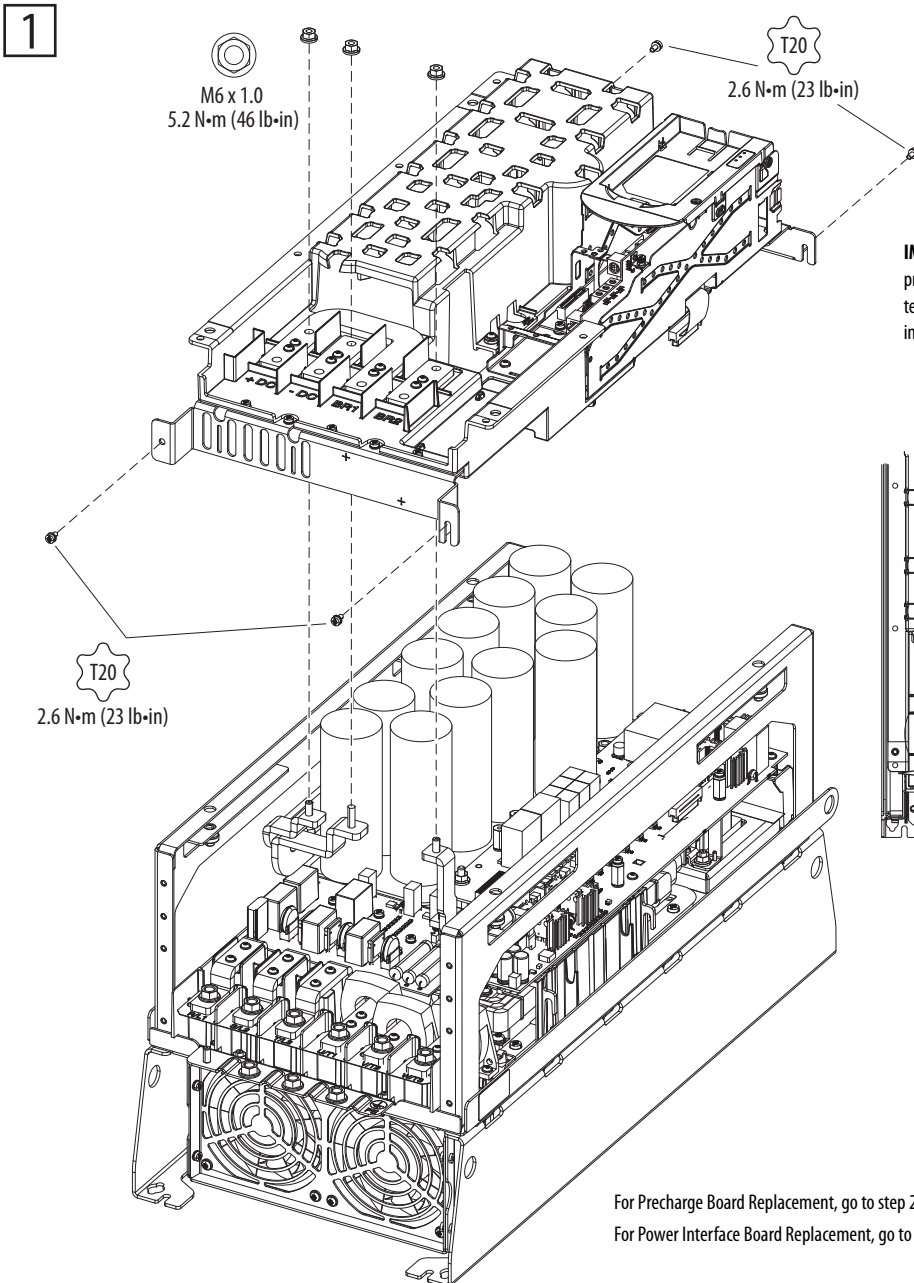
Step 2: See [page 8](#).

Power Interface Boards

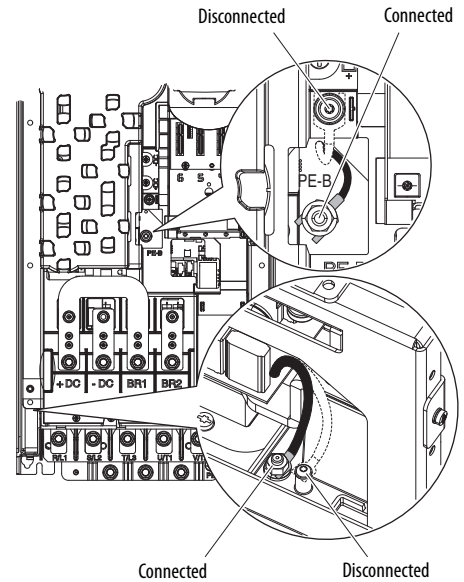
600V: SK-R9-PINT1-EF6A, B, C, D, E, F, G, H, J, K, M, N, P
690V: SK-R9-PINT1-FF6A, B, C, D, E, F, G, H, J, K, L, M, N



Step 2: See [page 9](#).



IMPORTANT: Power jumpers must 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.



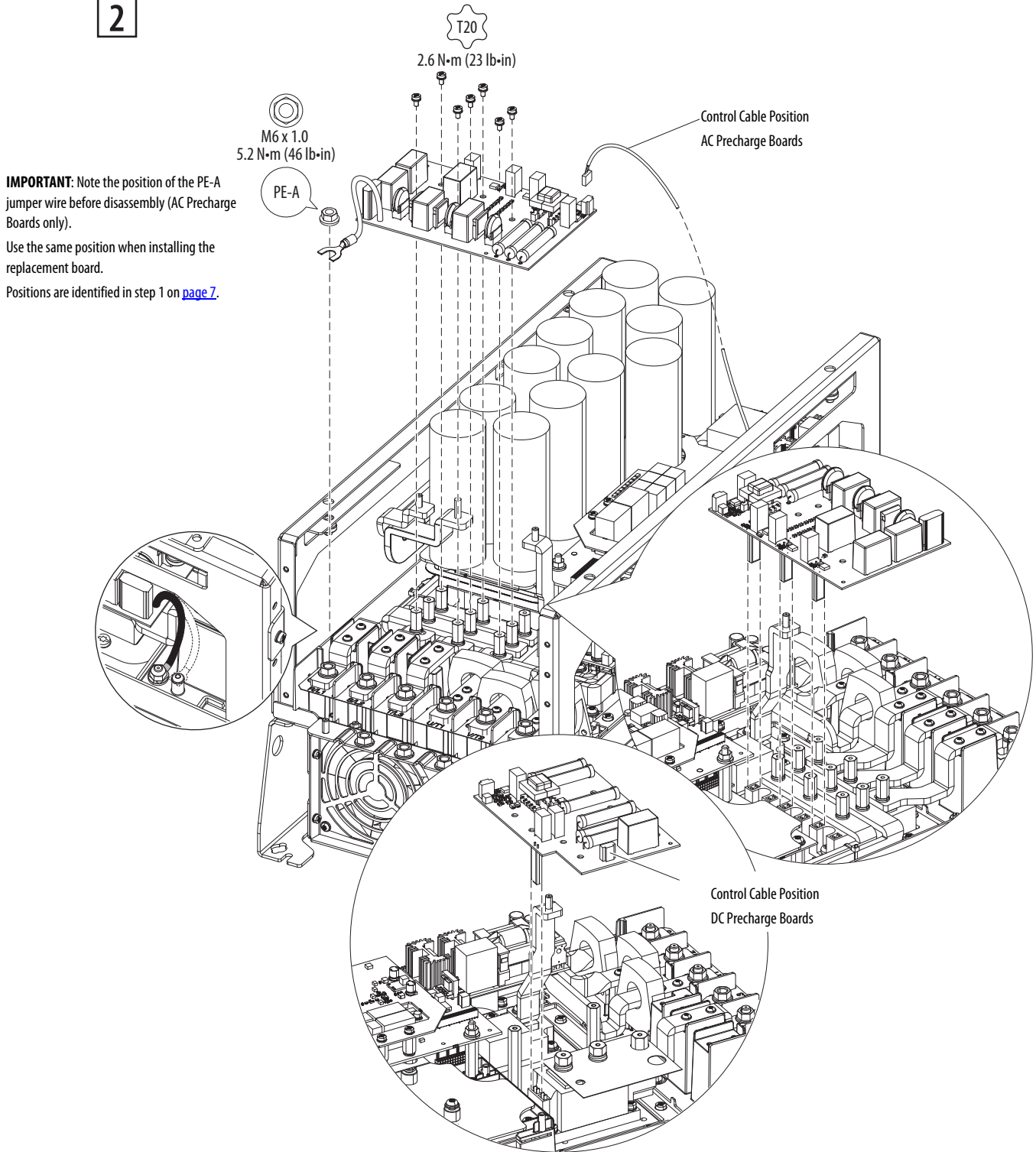
For Precharge Board Replacement, go to step 2 on [page 8](#).

For Power Interface Board Replacement, go to step 2 on [page 9](#).

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 7](#).

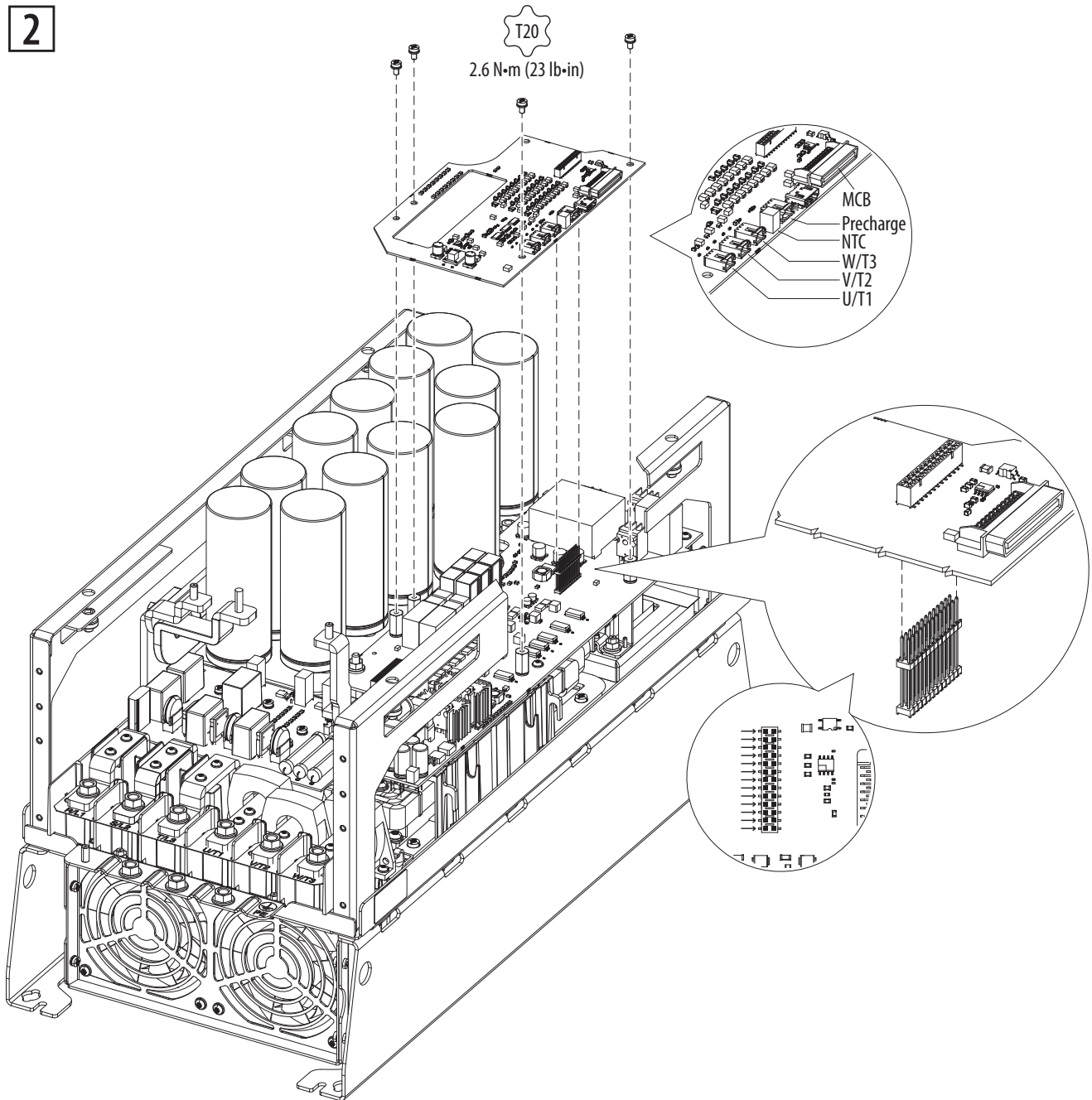


ATTENTION: Hazard of equipment damage exists if any board connector is not in full contact with its corresponding socket when power is applied. When installing the replacement board, carefully align and fully seat the pin connectors, plug in the control cable, be sure that the PE-A jumper wire is properly 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

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 that the pin connector is aligned and all plugs are fully seated.

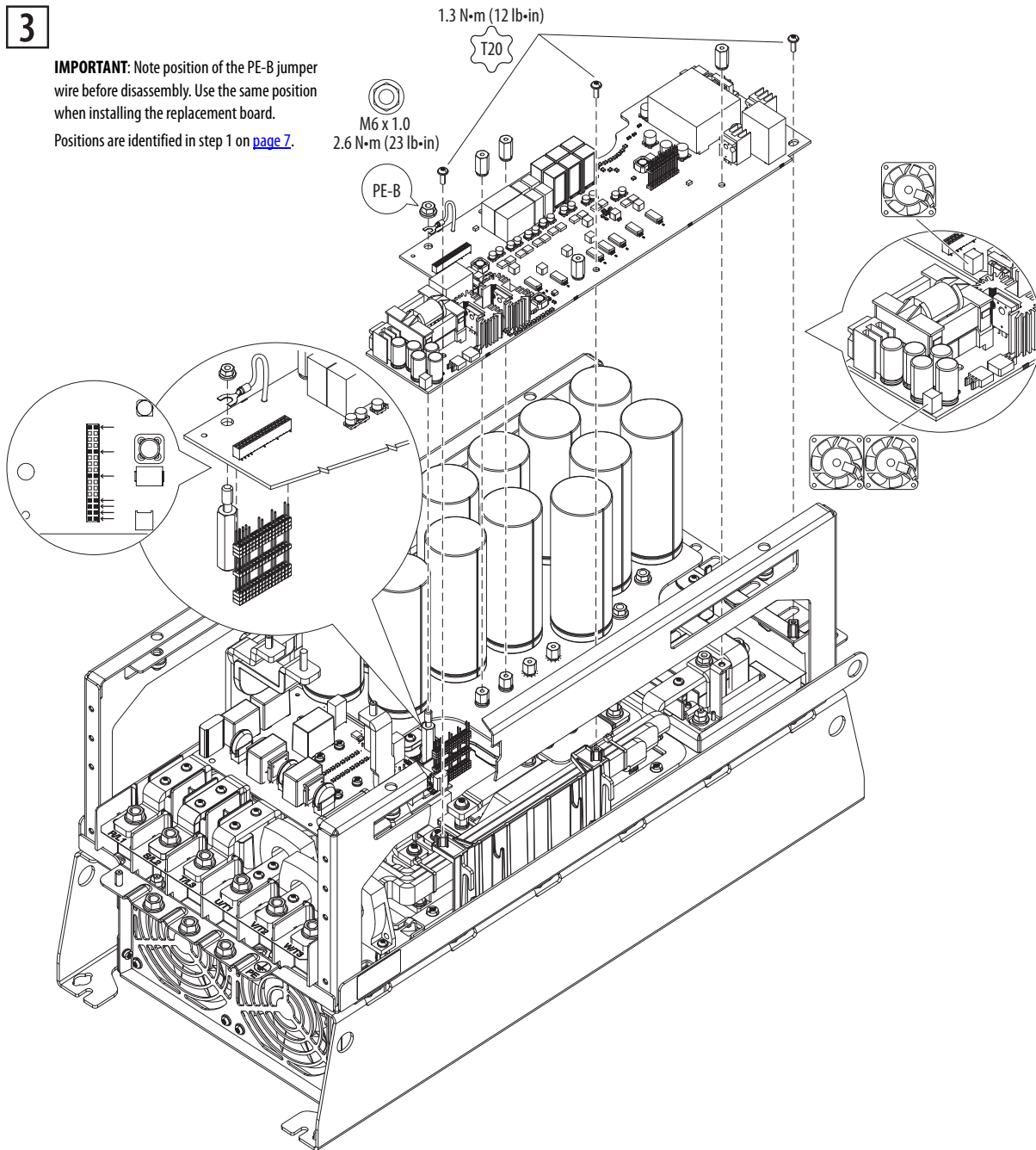
600/690V Frame 6 Drives – Power Interface Boards (continued)



ATTENTION: Replacing the power interface boards result in the loss of drive data including elapsed power consumption, elapsed runtimes, and preventive maintenance data.

3

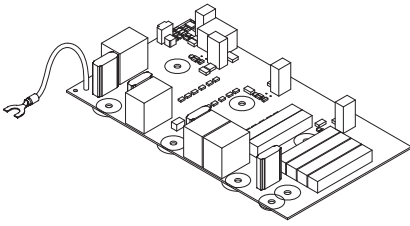
IMPORTANT: Note position of the PE-B jumper wire before disassembly. Use the same position when installing the replacement board.
Positions are identified in step 1 on [page 7](#).



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 that 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.

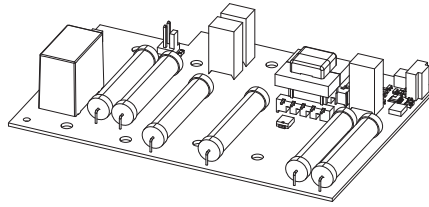
208/240V, 400/480V Frame 7 Drives

AC Precharge Board
SK-R9-PCG1-BF7
SK-R9-PCG1-DF7



Step 2: See [page 13](#).

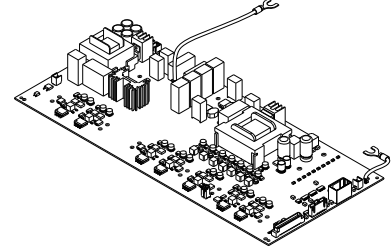
DC Precharge Board
SK-R9-PCG2-DF7



Step 2: See [page 13](#)

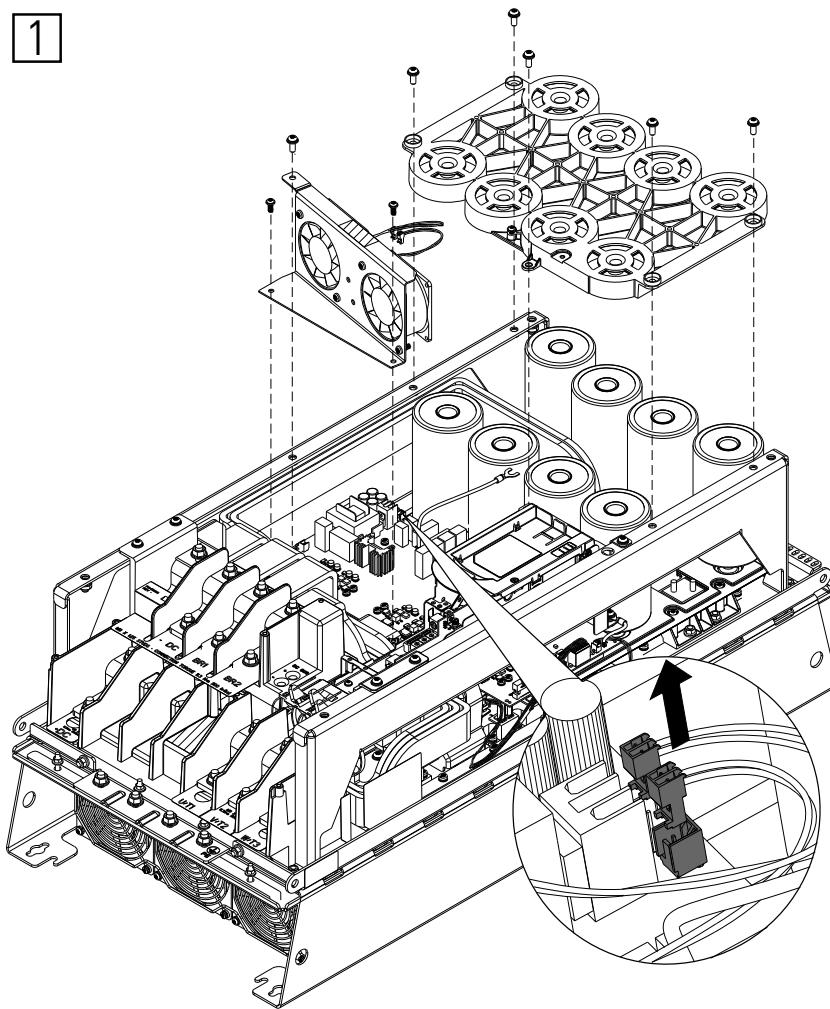
Power Interface Board

208V: SK-R9-PINT2-BF7A-G, -BF7A, -BF7B, -BF7C
240V: SK-R9-PINT2-BF7A-G, -BF7A, -BF7B, -BF7C
400V: SK-R9-PINT2-CF7A-G, -CF7A, -CF7B, -CF7C, -CF7D
480V: SK-R9-PINT2-DF7A-G, -DF7A, -DF7B, -DF7C, -DF7D

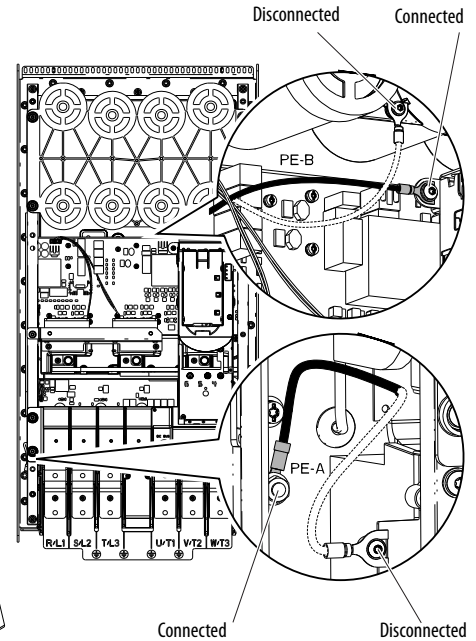


Step 2: See [page 15](#)

1

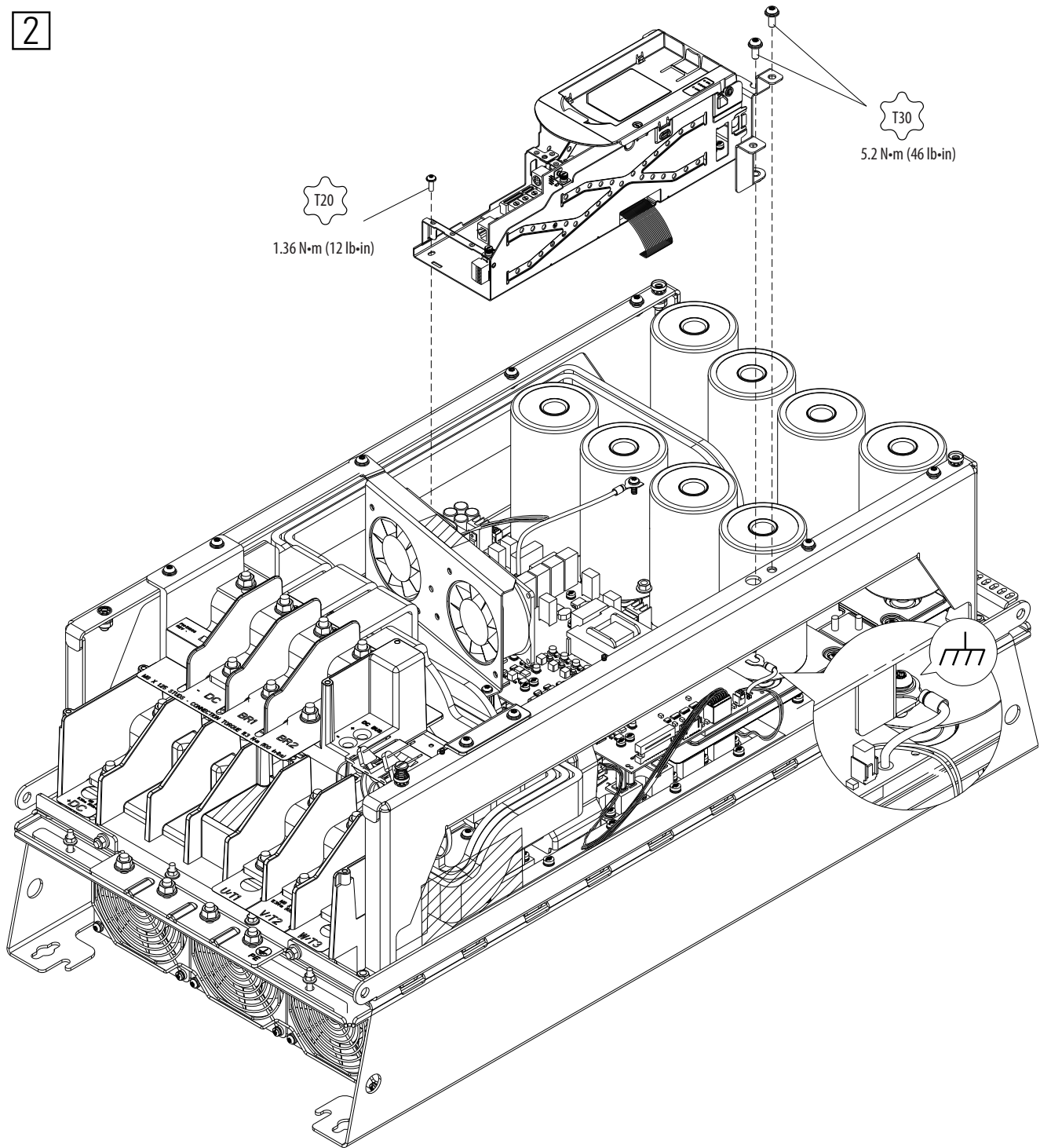


IMPORTANT: Power jumpers must be removed during this procedure. Note where the PE-A and PE-B jumper wires are terminated before disassembly. Use the same position when installing the replacement board.



208/240V, 400/480V Frame 7 Drives (continued)

2



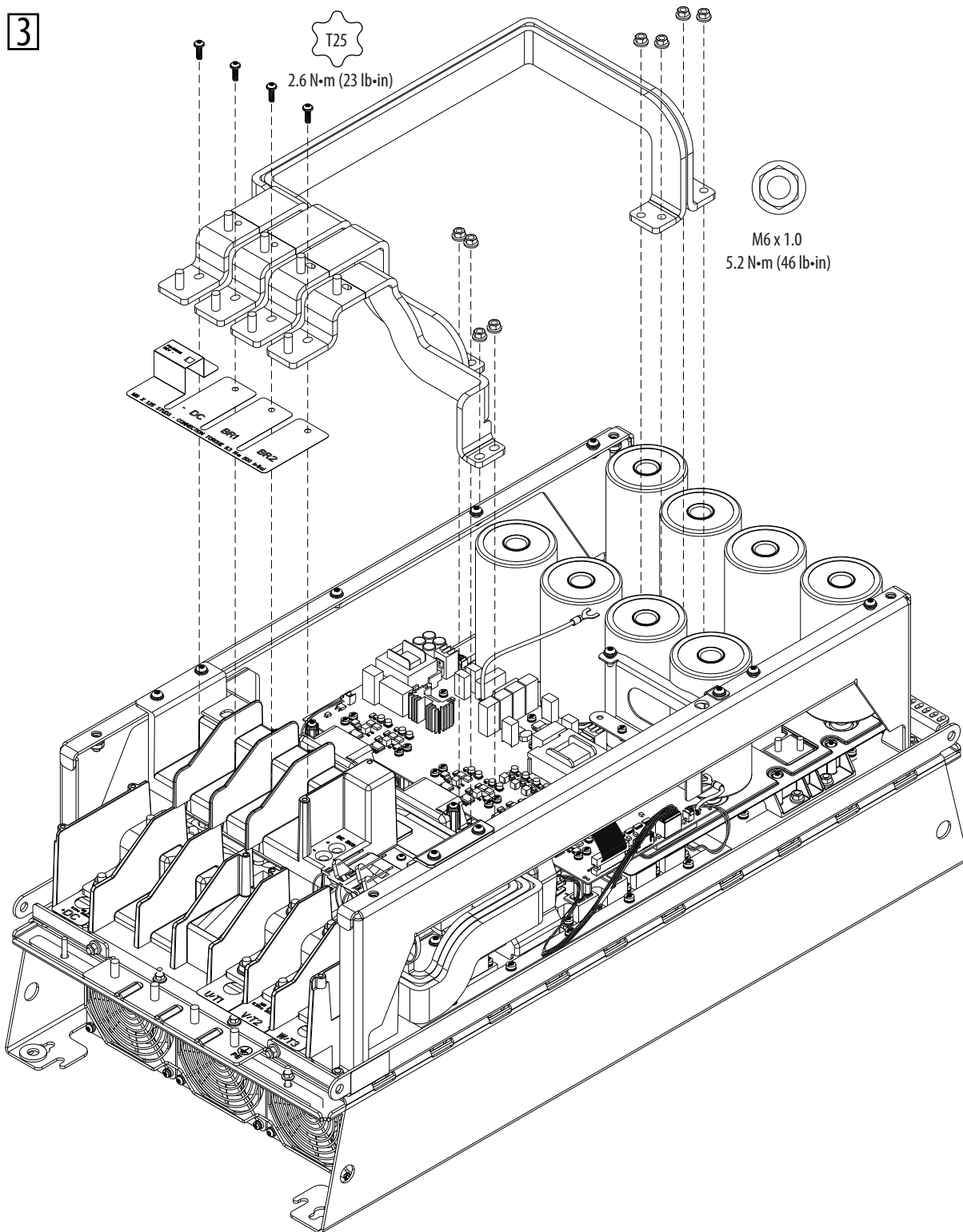
For Precharge Board Replacement, go to step 3 on [page 13](#).

For Power Interface Board Replacement, go to step 3 on [page 15](#).

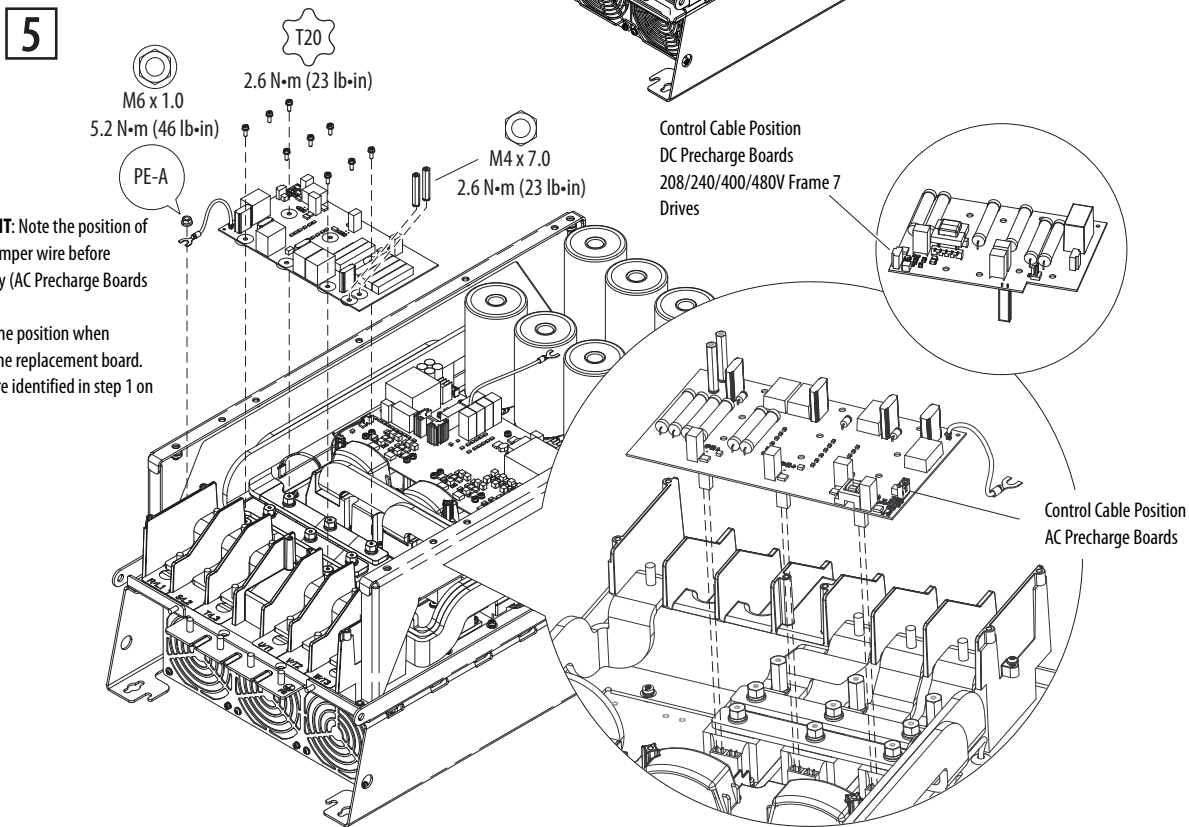
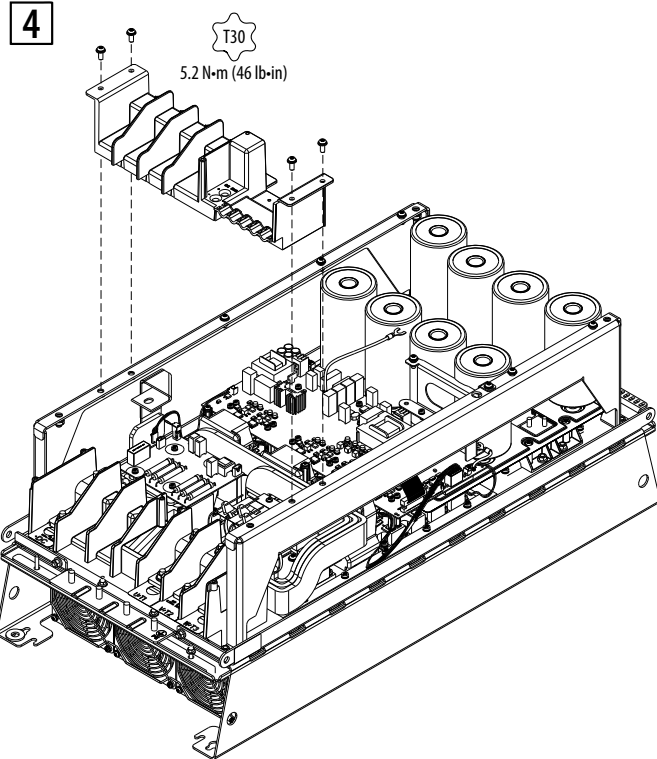
208/240V, 400/480V Frame 7 Drives – AC and DC Precharge Boards

SK-R9-PCG1-BF7, SK-R9-PCG1-DF7, and SK-R9-PCG2-DF7

3



208/240V, 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 11](#).



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 connectors, plug in the control cable, be sure that the PE-A jumper wire is properly terminated (AC Precharge Boards only), and install all fasteners and torque as indicated.

208/240V, 400/480V Frame 7 Drives – Power Interface Board

208V: SK-R9-PINT2-BF7A-G, -BF7A, -BF7B, -BF7C

240V: SK-R9-PINT2-BF7A-G, -BF7A, -BF7B, -BF7C

400V: SK-R9-PINT2-CF7A-G, -CF7A, -CF7B, -CF7C, -CF7D

480V: SK-R9-PINT2-DF7A-G, -DF7A, -DF7B, -DF7C, -DF7D

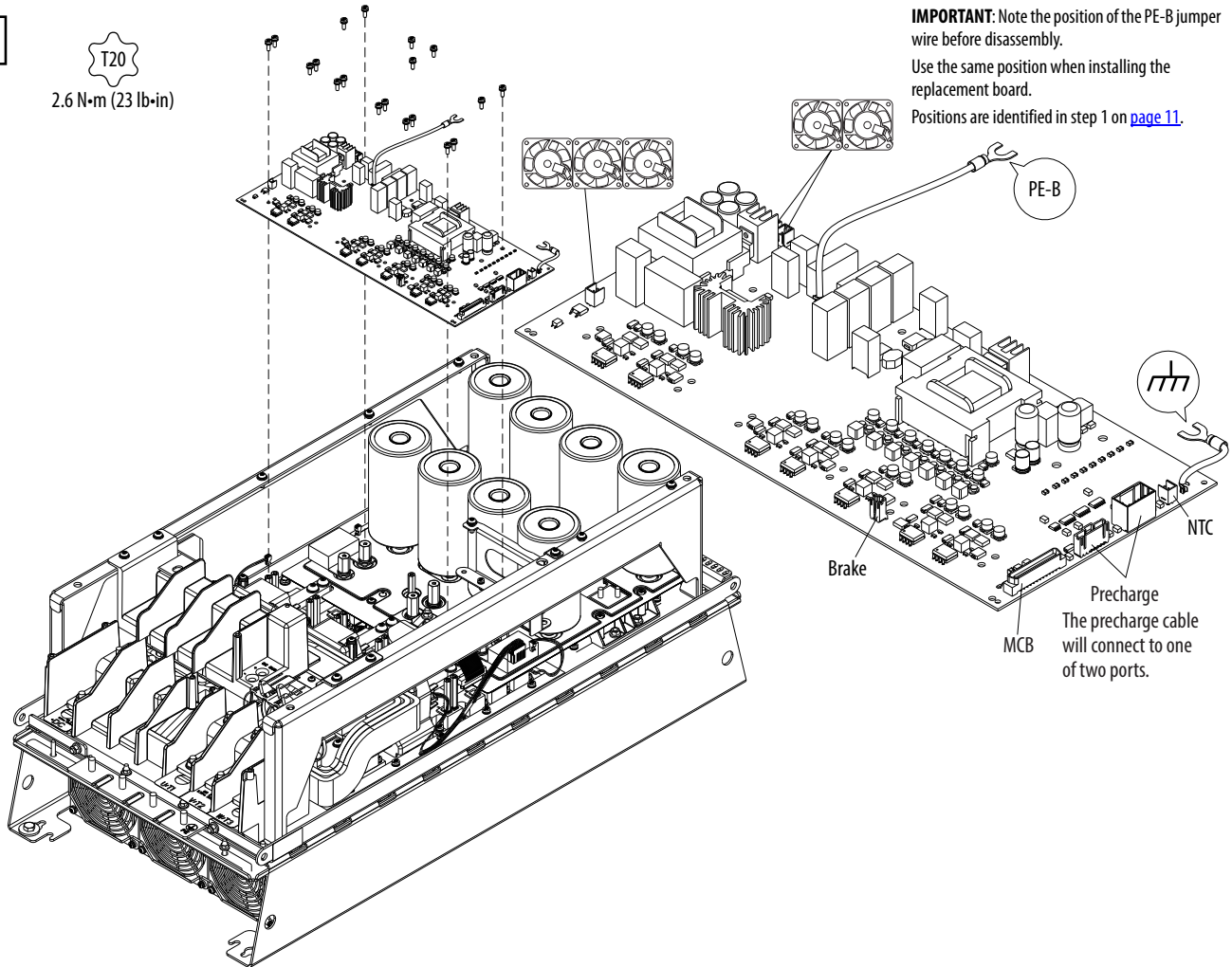


ATTENTION: Replacing the power interface board results in the loss of drive data including elapsed power consumption, elapsed runtimes, and preventive maintenance data.

3



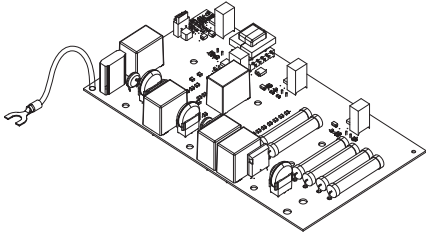
2.6 N·m (23 lb·in)



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 that 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.

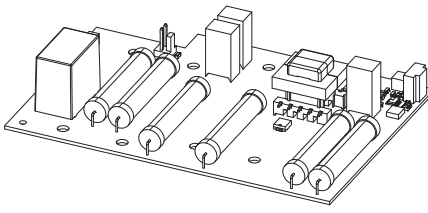
600/690V Frame 7 Drives

AC Precharge Board
SK-R9-PCG1-FF7



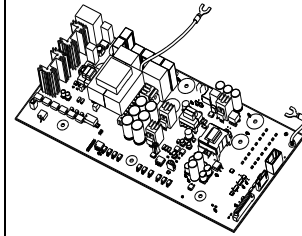
Steps 2: See [page 18](#).

DC Precharge Board
SK-R9-PCG2-FF7



Step 2: See [page 18](#).

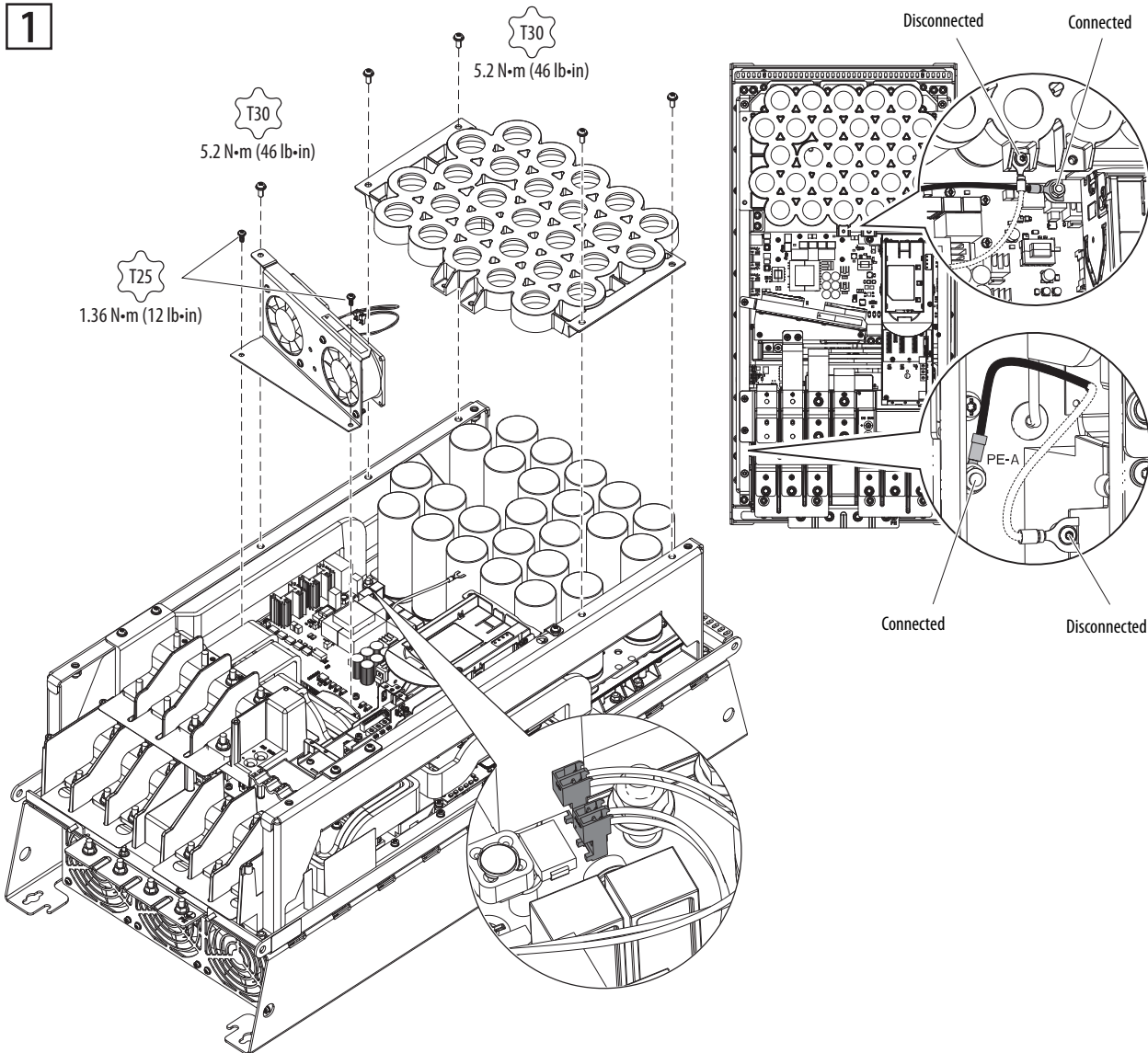
Power Interface Board
600V: SK-R9-PINT2-EF7A, -EF7B, -EF7C
690V: SK-R9-PINT2-FF7A, -FF7B, -FF7C



Step 2: See [page 20](#).

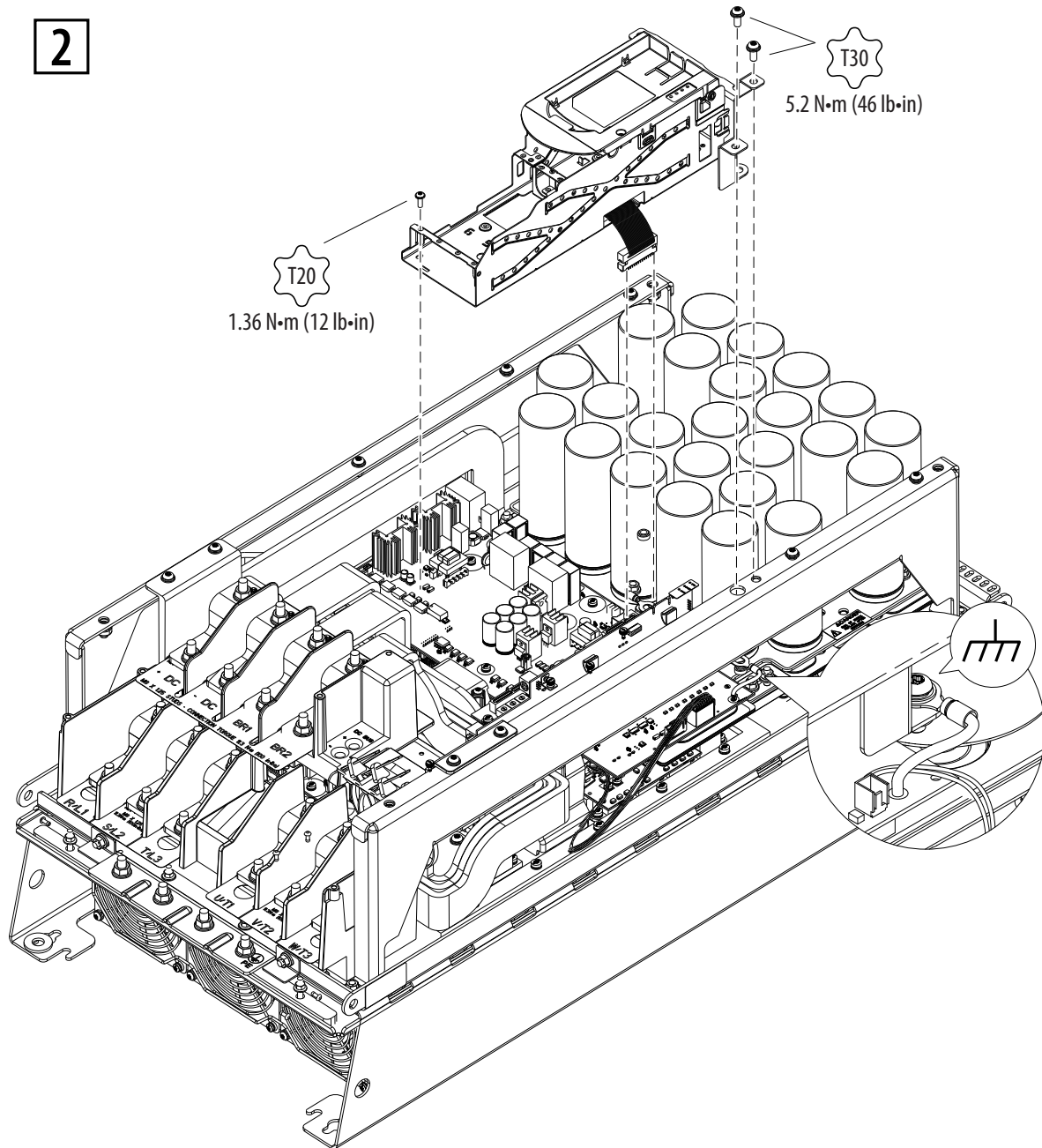
IMPORTANT: Power jumpers must be removed during this procedure. Note where the PE-A and PE-B jumper wires are terminated before disassembly. Use the same position when installing the replacement board.

1



600/690V Frame 7 Drives (continued)

2

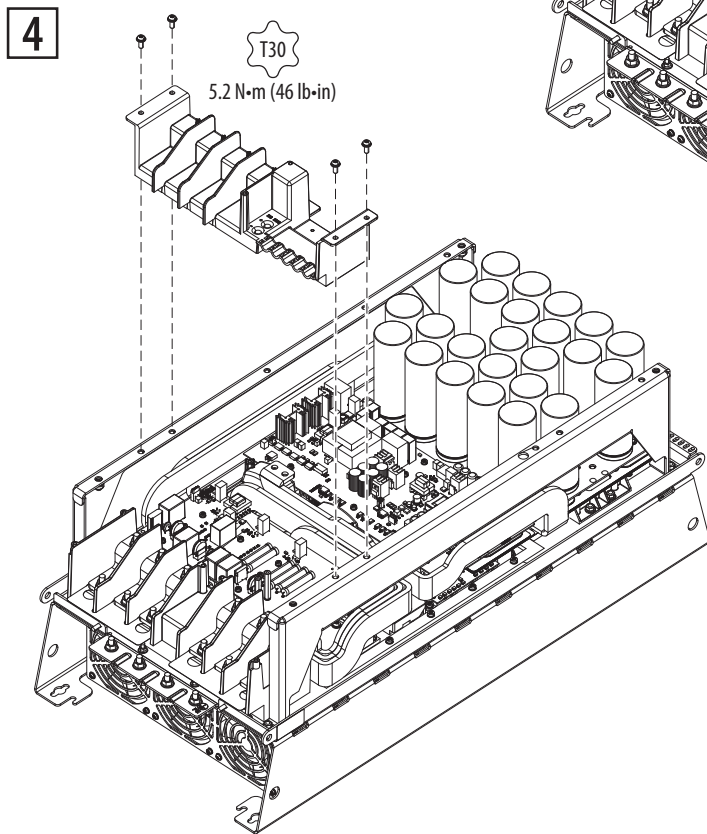
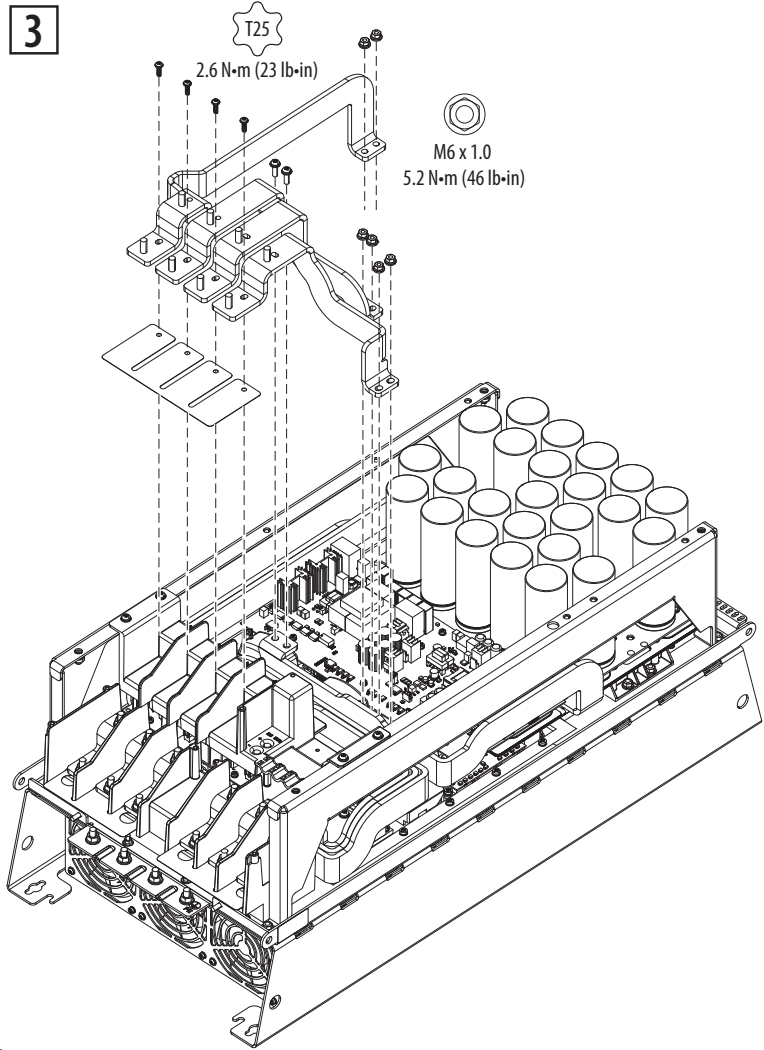


For Precharge Board Replacement, go to step 3 on [page 18](#).

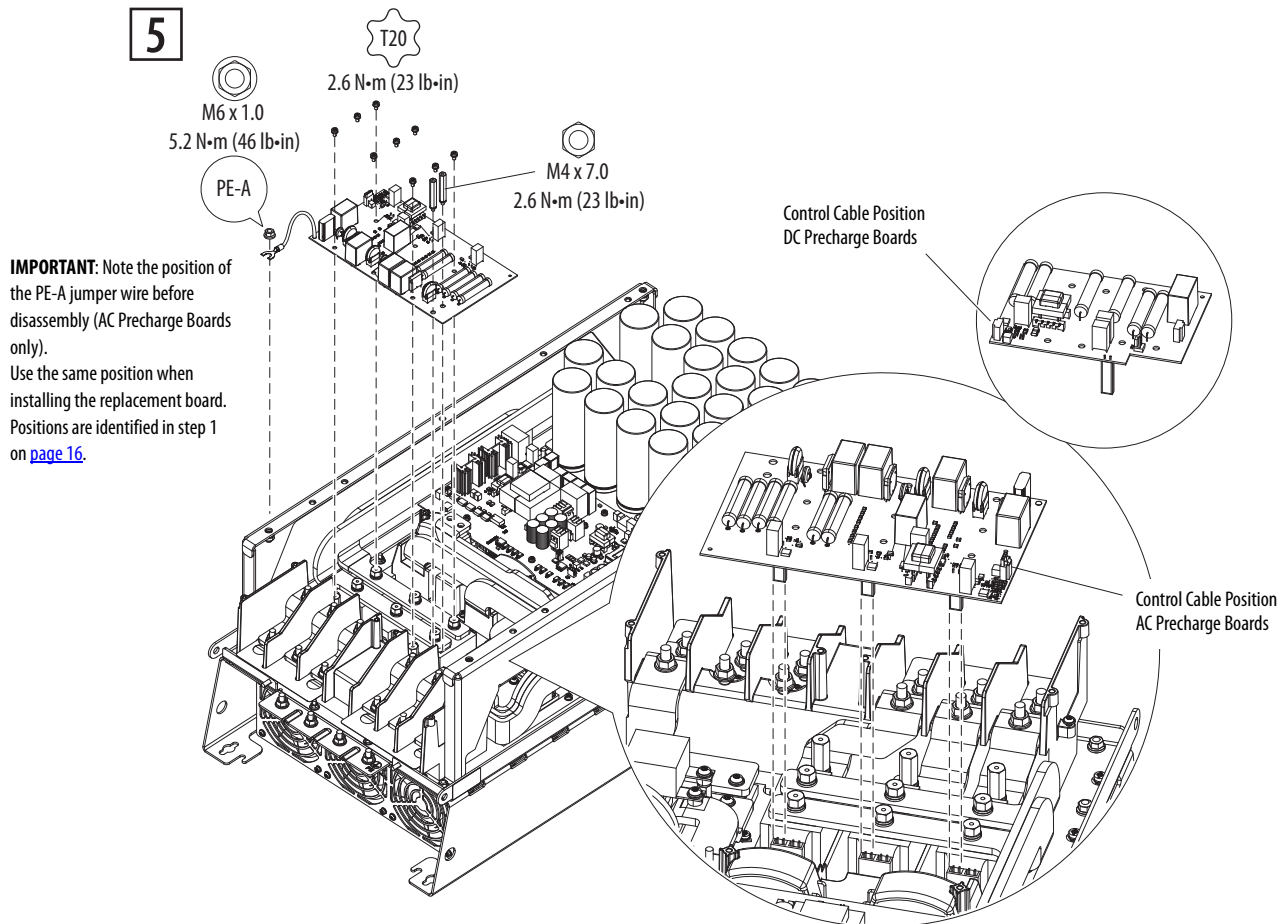
For Power Interface Board Replacement, go to step 3 on [page 20](#).

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

SK-R9-PCG1-FF7, SK-R9-PCG2-FF7



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 connectors, plug in the control cable, be sure that 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

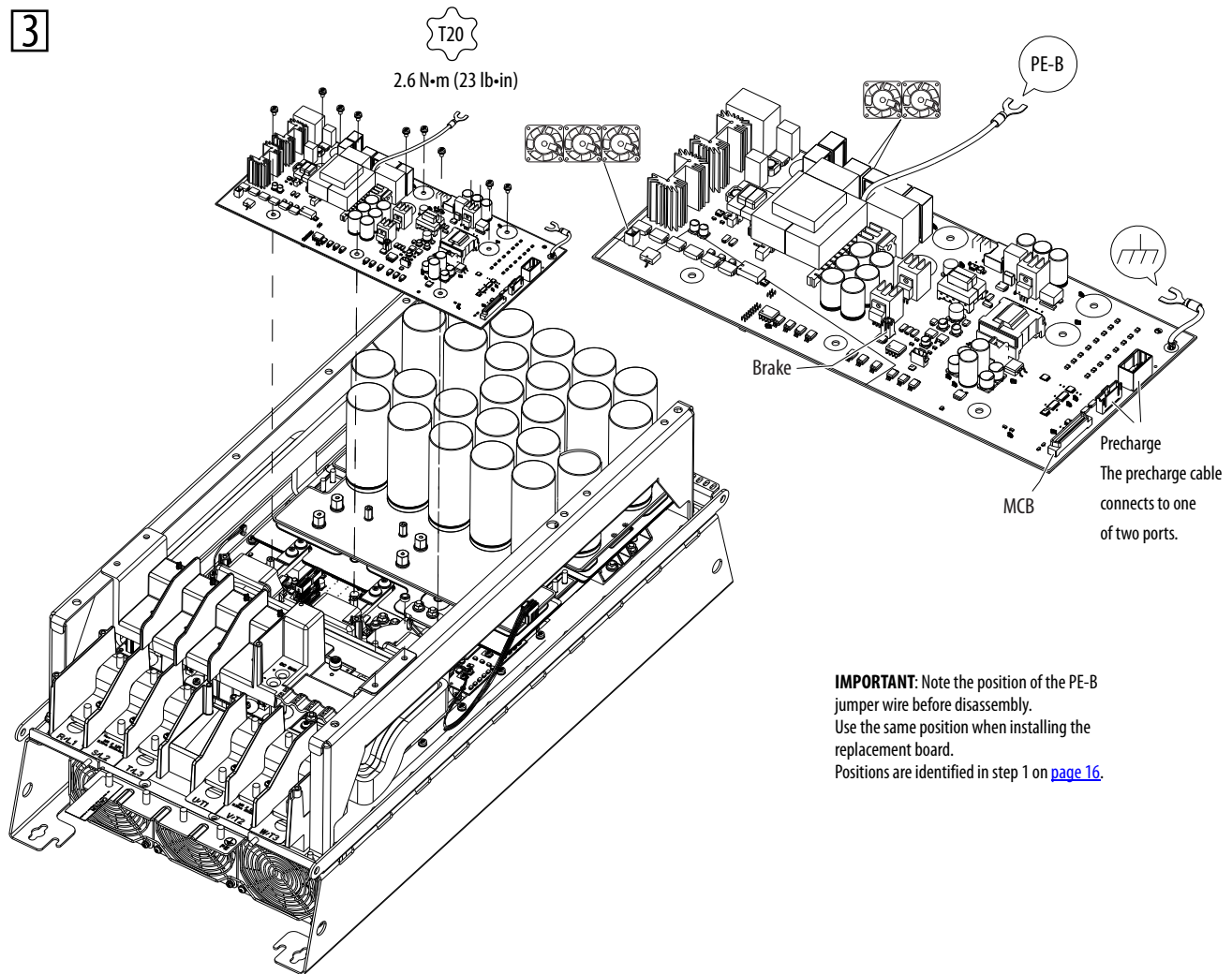
600V: SK-R9-PINT2-EF7A, -EF7B, -EF7C

690V: SK-R9-PINT2-FF7A, -FF7B, -FF7C



ATTENTION: Replacing the power interface board results in the loss of drive data including elapsed power consumption, elapsed runtimes, 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 that 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.

Notes:

Rockwell Automation Support

Use the following resources to access support information.

Technical Support Center	Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates.	https://rockwellautomation.custhelp.com/
Local Technical Support Phone Numbers	Locate the phone number for your country.	http://www.rockwellautomation.com/global/support/get-support-now.page
Direct Dial Codes	Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer.	http://www.rockwellautomation.com/global/support/direct-dial.page
Literature Library	Installation Instructions, Manuals, Brochures, and Technical Data.	http://www.rockwellautomation.com/global/literature-library/overview.page
Product Compatibility and Download Center (PCDC)	Get help determining how products interact, check features and capabilities, and find associated firmware.	http://www.rockwellautomation.com/global/support/pcdc.page

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