



1336 REGEN 48, 78 and 180A Precharge Unit Precharge Contactor Replacement

This publication will guide you through the replacement of the Precharge Contactor for 1336 REGEN Precharge Units.

Each 1336R-PRE-SP3A kit consists of:

- (1) 48/78A B/C Frame Precharge Contactor (PN 191113)

Each 1336R-PRE-SP4A kit consists of:

- (1) 180A D Frame Precharge Contactor (PN 191114)



ATTENTION: This product and its associated equipment 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 publication 8000-4.5.2 "*Guarding Against Electrostatic Damage*" or any other applicable ESD protection handbook.



ATTENTION: Only personnel familiar with the 1336 REGEN Line Regen Package and associated equipment should plan or implement the installation, start-up and subsequent maintenance of the system. Failure to comply may result in personal injury and/or equipment damage.



ATTENTION: Electric Shock can cause injury or death. Remove all power before working on this product.

For all 1336 REGEN Line Regeneration Packages, a separate 120V AC user power supply is required.

Hazards of electrical shock exist if accidental contact is made with parts carrying bus voltage. Before proceeding with any installation or troubleshooting activity, allow at least one minute after input power has been removed for the bus circuit to discharge. Bus voltage should be verified by using a voltmeter to measure the voltage between the DC+ and DC- Converter Output Terminals. Do not attempt any servicing until bus voltage has diminished to zero volts.

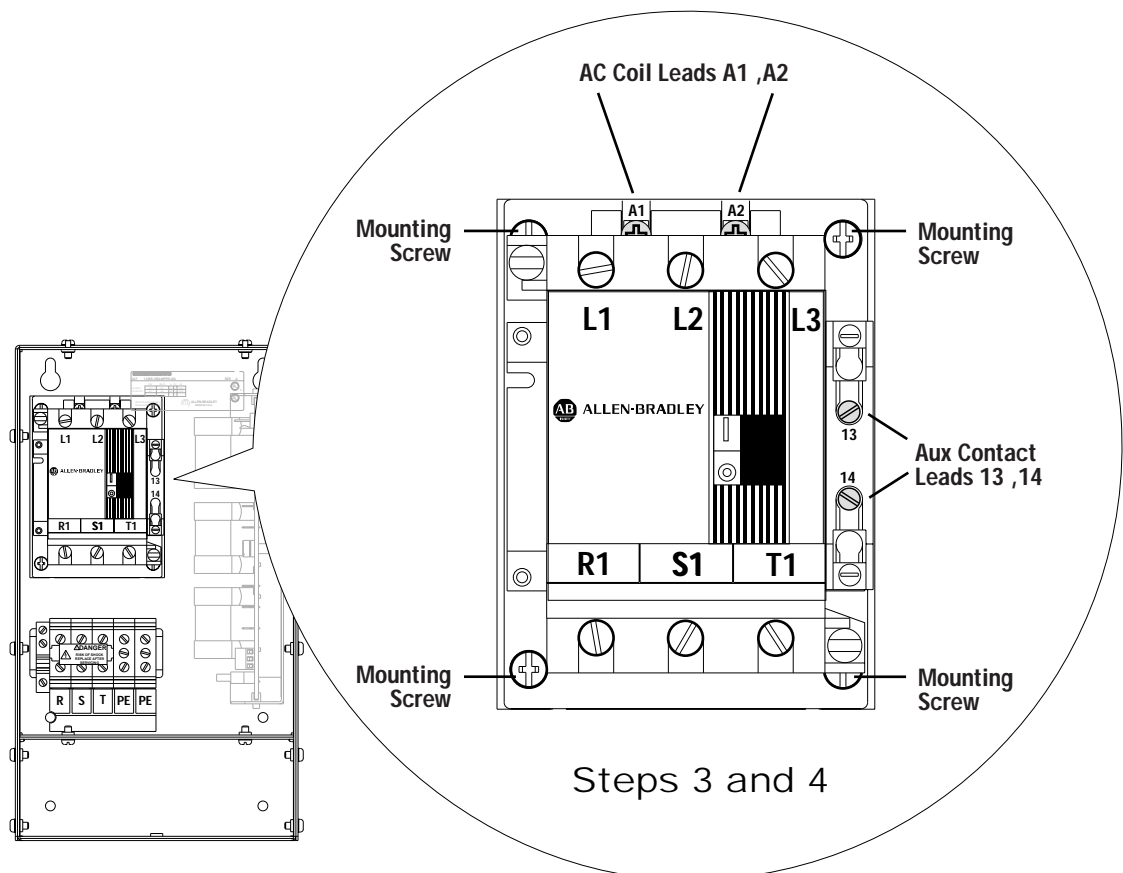
48 and 78A Precharge Contactor Replacement

1. Remove and lock-out all incoming power to the 1336 REGEN Line Regeneration Package.
2. Remove the Precharge Unit front cover. Measure the voltage at input power terminals R1-S1-T1 and terminal block TB1 with a voltmeter to ensure that no voltage is present.
3. Disconnect all leads at the contactor and remove the (4) mounting screws.
4. Install the new contactor.
 - Torque the (4) contactor mounting screws to 2.6-4.1 N-m (23-36 lb.-in.).
 - Torque L1-L2-L3 and R1-S1-T1 to 4 N-m (35 lb.-in.).
 - Torque A1-A2 and 13-14 to 2.6-4.1 N-m (23-36 lb.-in.).



ATTENTION: Replace any guards or shields previously removed before reapplying power to the 1336 REGEN Line Regeneration Package. Failure to replace guards or shields may result in death or serious injury.

5. Reinstall the Precharge Unit front cover.



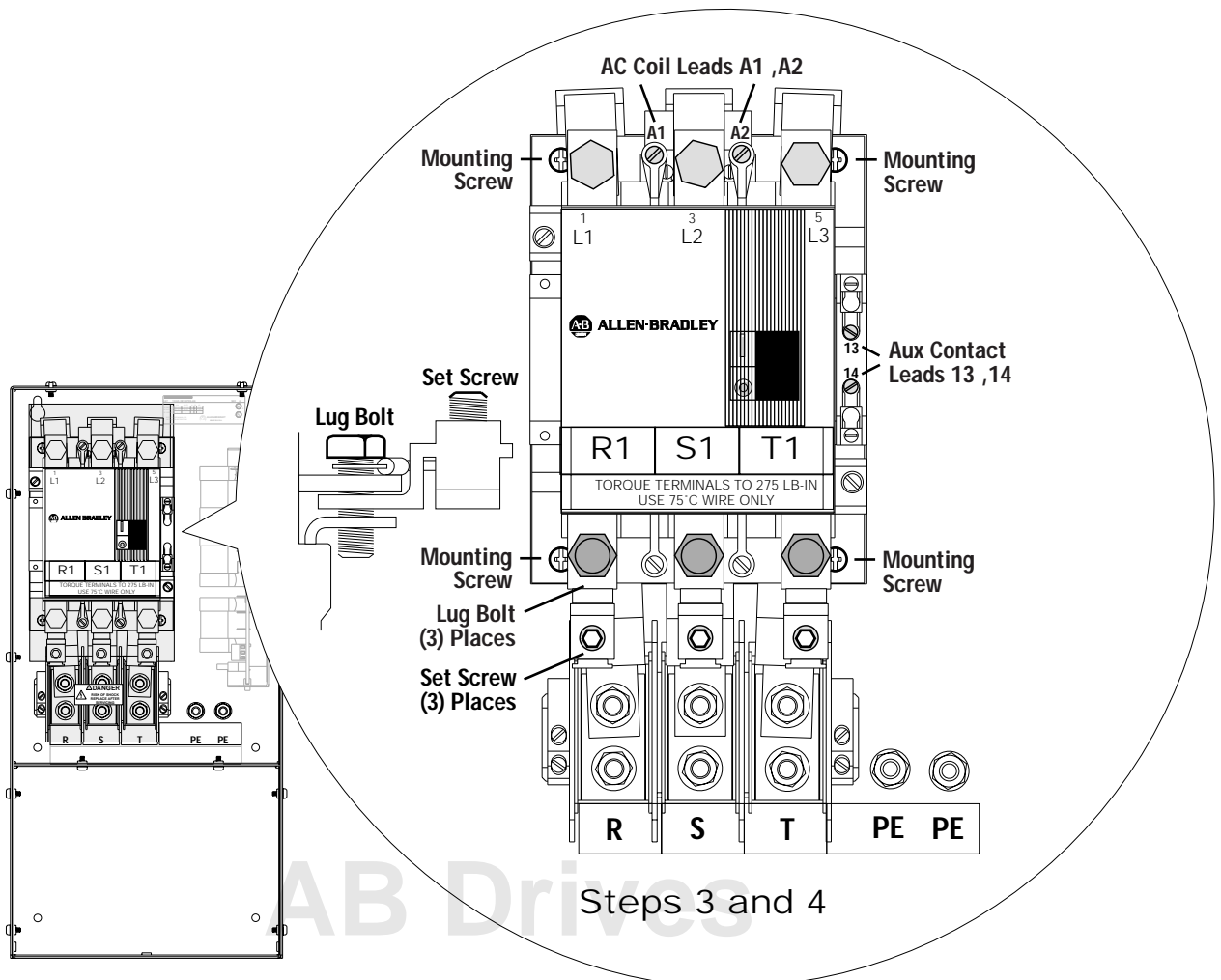
180A Precharge Contactor Replacement

1. Remove and lock-out all incoming power to the 1336 REGEN Line Regeneration Package.
2. Remove the Precharge Unit front cover. Measure the voltage at input power terminals R1-S1-T1 and terminal block TB1 with a voltmeter to ensure that no voltage is present.
3. Disconnect all leads at the contactor and remove the (4) mounting screws.
4. Install the new contactor.
Torque the (4) contactor mounting screws to 2.6-4.1 N-m (23-36 lb.-in.).
Torque A1-A2 to 2.6-4.1 N-m (23-36 lb.-in.).
Torque L1-L2-L3 and the (3) R1-S1-T1 lug bolts at the bottom of the contactor to 31.6 N-m (275 lb.-in.).
Torque the (3) R1-S1-T1 set screws to 0.9 N-m (8 lb.-in.).
Torque 13-14 to 2.6-4.1 N-m (23-36 lb.-in.).



ATTENTION: Replace any guards or shields previously removed before reapplying power to the 1336 REGEN Line Regeneration Package. Failure to replace guards or shields may result in death or serious injury.

5. Reinstall the Precharge Unit front cover.





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