

**"DOCUMENT UNCONTROLLED IF PRINTED"**

DOC #	PROCESS NAME	PAGE	REVISION	STATION	BY	DATE
<b>AR847</b>	Loose Thermo King Power & Ground Lugs Inspection/Repair	1 OF 2	B	SER-E	C.WARD	9/21/2017

Read process before beginning. If you do not understand any part please contact: Chris Ward, VP of Parts and Warranty at 1-866-953-5555 or by E-mail @ cward@ARBOCSV.com.

Good Mechanics safety practice must be followed on any repairs.

Safety practices should include but not be limited to properly supporting the chassis, axles, blocking tires, and a work area free of clutter.

**Complaint:** Power/Ground Lugs loose at connection points at circuit breaker or ground bar

**Cause:** Lugs incorrectly crimped or loose connections at circuit breaker or ground bar

**Correction:** Review lugs for secure installation and lug crimp (repair as needed)

**Vehicles Affected:** SOM/SOF Units with Thermo King A/C

**Labor Operation Code:** 065001

**Authorization by Work Order Only**

**Parts Returned:** No

**Tools Required**

**Parts Required**

- Screw Gun
- Phillips Bit
- Ratchet
- 11mm Deep Socket

**Repair #1 Instructions: INSPECTION ONLY**

**Review Labor Time Allowance: .3 Hours**

Step 1: Locate 100 Amp Circuit Breaker on inside of electrical box (lower right side) - verify power connections are tight to circuit breaker and lugs are crimped to wire

- A. Verify connections to the circuit breaker are tight (50 in-lb max) - if loose tighten
- B. Firm Tug on wire to ensure that lug is adequately crimped to wire - if issue with lug see repair below



Step 2: Remove Amerex Controller (4 Black Screws)

Step 3: Remove Destination Sign Controller (Reach hand through Amerex opening to grab brass nuts on back side and loosen phillip screws on forward side)



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Step 4: Reach hand through opening to back side of electrical box to find ground bar with 3 grounds secured with Bolt - verify ground connections are tight to circuit breaker and lugs are crimped to wire



- A. Verify connections to the circuit breaker are tight (6-8 ft-lbs) - if loose tighten
- B. Firm Tug on wire to ensure that lug is adequately crimped to wire - if issue with lug see repair below

Step 5: If everything is okay:

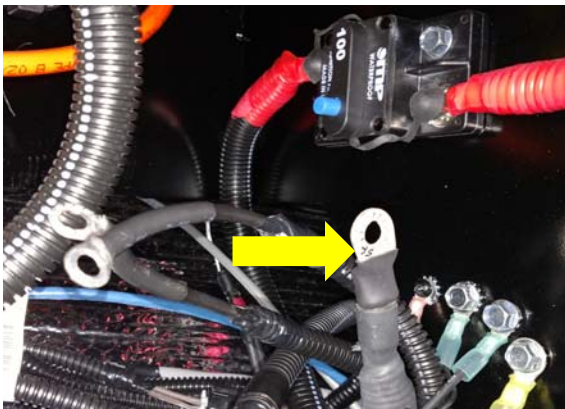
- A. Install Destination Sign Controller (Reach hand through Amerex opening to grab brass nuts on back side and tighten phillip screws on forward side)
- B. Install Amerex Controller (4 Black Screws)

## Repair #2 Instructions: Lug Repair Only

Review Labor Time Allowance: .5 Hours

Step 1: Remove Harness from Ground Bar with 11mm Deep Socket (making sure to keep bolt for re-installation)

Step 2: All (3) Ground wires can be pulled through the back of the electrical box to install 2ga x 1/4 Lug to the A/C Ground Wire.



Step 3: Push all (3) grounds back through back of electrical box and re-connect to the ground bar ( 6-8 ft-lbs).