P80070 / P80073 10kVa Restore-Lite® Unit Installation Instructions
P80071 / P80074 15kVa Restore-Lite® Unit Installation Instructions
P80072 20kVa Restore-Lite® Unit Installation Instructions

Overview:

The Restore-Lite® Temporary Power Restoration System is a compact mobile transformer unit that contains a single-phase, floating-tap transformer designed to restore power to customers who have a single-faulted conductor on 120/240V service. The Restore-Lite® can be installed between the customer's meter base and transformer to restore power without immediately locating and repairing the cable fault or running temporary cable above ground.
The Restore-Lite® is designed to restore load current on an open hot leg up to the unit's designated current rating. On an open neutral, the unit restores full service up to the current rating in neutral current.
The Restore-Lite® system only works if two good conductors with sufficient insulation are available (e.g., one hot leg and a neutral or two hot legs and no neutral). Also, the neutral pigtail must be intact on the meter adapter and connected to the service neutral for the Restore-Lite® to work properly.

P80073 **(150 amp connectors)**
P80070 **(300 amp connectors)**

AMP: 80Amp

VOLTAGE: **10Kv/a**

CIRCUIT BREAKER
RATING: 80Amp

DEPTH: 16 inches
42cm
WIDTH: (from end of tires)
20.5 inches
53 cm
HEIGHT: (with 10 inch tires)
29 inches
74 cm

WEIGHT: 72.5 lbs. (P80073)
74 lbs (P80070)

P80074 **(150 amp connectors)**
P80071 **(300 amp connectors)**

AMP: 125Amp

VOLTAGE: **15Kv/a**

CIRCUIT BREAKER
RATING: 125Amp

DEPTH: 16 inches
42cm
WIDTH: (from end of tires)
20.5 inches
53 cm
HEIGHT: (with 10 inch tires)
29 inches
74 cm

WEIGHT: 88.5 lbs. (P80074)
90 lbs. (P80071)

P80072 **(300 amp connectors)**

AMP: 160Amp

VOLTAGE: **20Kv/a**

CIRCUIT BREAKER
RATING: 160Amp

DEPTH: 16 inches
42cm
WIDTH: (from end of tires)
20.5 inches
53 cm
HEIGHT: (with 10 inch tires)
29 inches
74 cm

WEIGHT: 115lbs.

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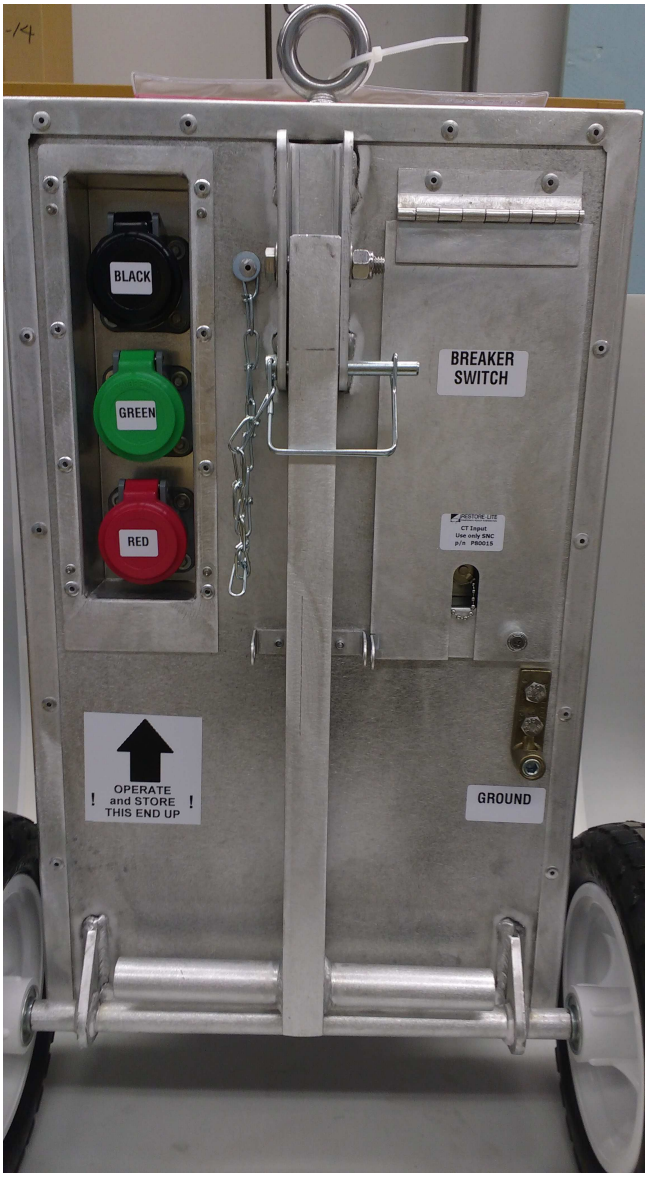
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Complete unit ready for power restoration.

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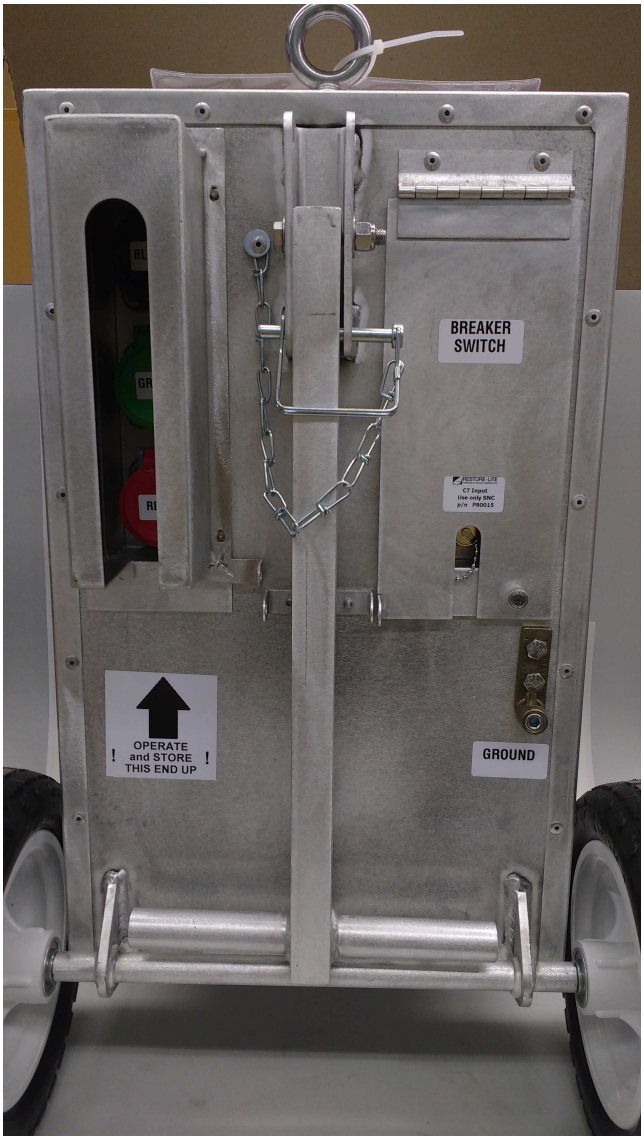
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Optional cap to lock connections in place



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Optional CT Protection

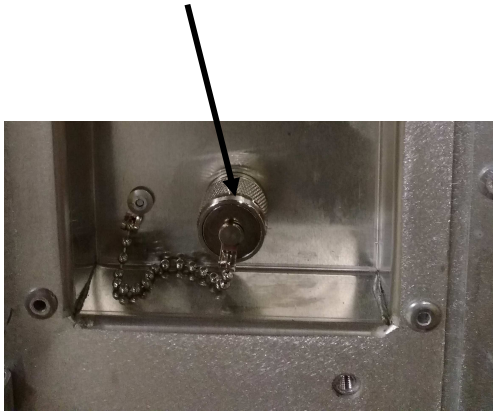
1. Follow your company safety procedures
2. Always wear all appropriate PPE and other protection during installation and use.
3. Notify customer of work to be performed.

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4. Prepare Restore-Lite® unit for field by attaching meter head cord assembly to the back of the transformer case and the CT to the side. Insert matching colored CAM Lock adapters to the back of the case by starting with the arrow in the 9 o'clock position and rotating ¼ turn clockwise. CT cord plugs into back of case. See below.





5. Follow your company grounding practices. A grounding lug is provided on the back of the unit if dictated by your company's policies.



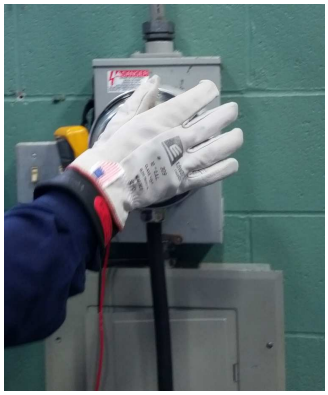
6. Set the circuit breaker to the **OFF** (green) position.



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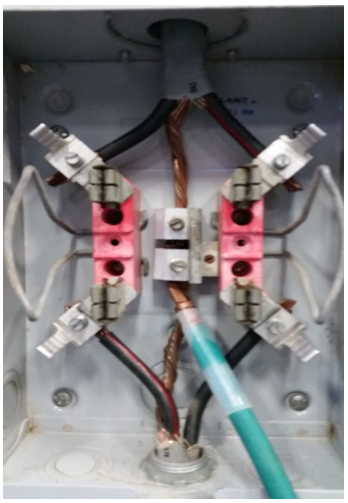
7. To begin field installation, remove the customer's meter.



8. Disconnect the faulty leg at the transformer and meter assembly, making sure to tape exposed conductors. If the neutral is being restored, leave it in place.

9. Connect the neutral lead on the meter adapter to the neutral lug found in the meter base. Make sure to feed the green neutral lead through the lid to the meter base before installing it on the lugs. The provided hanging hook will help during neutral lead installation.



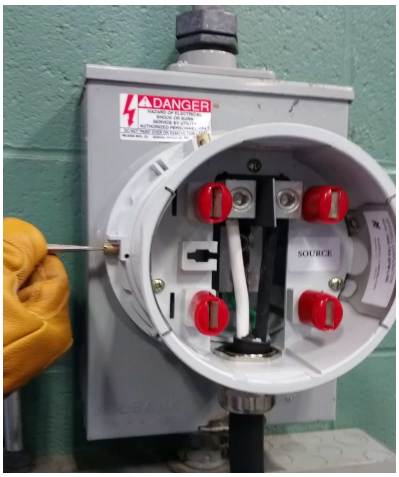


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10. Check that the locking tab screws on the meter head adapter are loosened to their fully retracted position.

11. Tuck the green neutral cord inside the can, install the meter base lid and plug the meter adapter into the meter socket. Once adapter is tight to the lid you can tighten the locking tab screws.



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OPTIONAL CT PROCESS

12. Install external CT by opening CT and attaching to conductor (bare #6) between meter base and ground rod as close to the meter base as possible.

Note: If attaching case ground to the same conductor, the CT must be between the meter base and the case ground.

IF REQUIRED



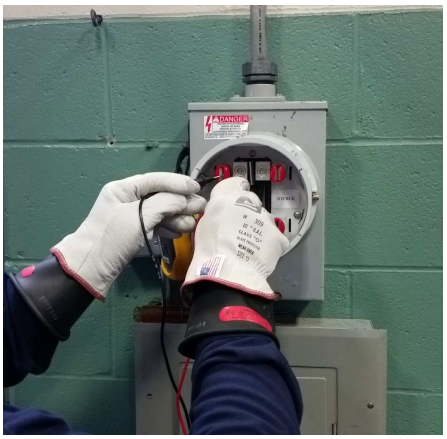
13. To start the unit set the circuit breaker to the **ON** (red) position.



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14. Check that the voltage across the top terminals is either 208 or 240 volts, depending on the application. Check for 120 volts between both hot legs and the neutral.



15. Set the circuit breaker to the **OFF** (green) position and install the meter in the adapter. Add meter seal if needed.



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16. Set the circuit breaker to the **ON** (red) position and the Restore-Lite® will start running. Note that fan can be heard when unit is running.



17. When Finished, turn off unit, replace all covers and disconnect all cord sets from Restore-Lite® unit, store the cords in storage bag.
(Failure to remove cord sets before transporting unit can result in damage to the cord set and can cause lack of performance or failure)



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Warnings and Notes

- Restore-Lite® must remain in upright position.
- Do not exceed specified power rating.
- Unit is not designated for use in 3-phase systems.
- To restore a faulty phase, one functional phase and one functional neutral are required.
- To restore a faulty neutral, two functional phases are required.
- Optional: If the CT experiences a current of 10A or greater for 5 seconds the Restore-Lite® breaker will trip and shut down the unit. (To restart the Restore-Lite® back up, cycle the breaker.)
- Locking tab screws must be fully loosened to remove adapter.
- When removing the device from service, switch the breaker to the OFF position and remove the meter and meter-head. Un-plug the cables from case and store the meter adapter and CT in storage bag.

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