



Safe Work Procedure

Battery Charger

Department and Program: Physical Plant Maintenance
Date First Approved: October 2018
Date Updated: February 2023 Version 2.0 SWP-PP-GEN-030

This Safe Work Procedure must be reviewed any time the task, equipment, or materials change and at a minimum every three years.

DO NOT perform this procedure until you have been appropriately trained and authorized to do so.

Required Training

- Must be trained by experienced and competent person

Required Personal Protective Equipment and Devices



CSA Approved Safety Footwear Required



No loose fitting clothing

Proper PPE Clothing



Eye Protection Required



No jewelry, watches, rings, necklaces etc.



Long or loose hair must be tied back or contained

Potential Hazards

- Explosive gas
- Battery acid burn
- Battery explosion

Pre-Operational Safety Checks

- Inspect required personal protective equipment and replace if required.
- Ensure no slip/trip hazards are present in workspaces and walkways. .
- Faulty equipment must not be used. Immediately report suspect machinery.
- Locate and ensure you are familiar with the operation of the ON/OFF starter.
- **Match Proper polarity**

Prohibited Activities

- Do not Smoke (Fire Hazard)
- Do not leave this equipment unattended while running in a boosting application.
- Never attempt to charge a battery that is frozen or that has a shorted cell.
- Never charge a battery in a poorly ventilated area.

Safe Work Procedure

1. Remove jewelry, eliminate loose clothing and tie back long hair. Remove all combustible materials from pockets (Lighters, matches, etc.)
2. Wear appropriate personal protective equipment (PPE).
3. Make all adjustments with POWER OFF.
4. Make sure all guards are in place, properly adjusted, and secured.

5. Ensure ventilation system is ON and use only in a well ventilated area.
6. Ensure power and accessories are OFF in vehicle. Remove cables from battery unclamping grounded cable first. Ensure wrench does not contact both terminals at the same time.
7. Keep battery upright and move to a ventilated area free from combustible materials, sparks or flames. Use appropriate lifting device if necessary.
8. Check battery for cracks and that it is not frozen.
9. Clean exterior of battery with an appropriate cleaner. Be careful not to let cleaning solution enter battery cells. Wash hands after contact with battery.
10. Make sure battery charger is unplugged and turned OFF. Set charge rate and timer. Hook cables up to battery terminals
11. Turn battery charger ON until battery is fully charged.
12. Turn battery charger OFF and unplug then disconnect battery from charger.
13. Reinstall battery in car. Use approved lifting device. Reconnect cable to positive battery terminal first then connect ground cable to negative battery terminal.

If an emergency situation occurs while conducting this task, or there is an equipment malfunction, shut the equipment off immediately and follow the lock out procedure.

REPORT ANY HAZARDOUS SITUATION TO YOUR INSTRUCTOR/SUPERVISOR IMMEDIATELY

Housekeeping

- Ensure equipment is off.
- Place all materials in their proper storage areas.
- Ensure the equipment is safe, clean and tidy before you leave it.

Guidance Documents/ Standards/ Applicable Legislation/ Other:

Guidance Documents:

- Operator's Manual

CSA Standards:

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Manitoba Regulation 217/06:

- 2.1 Safe Work Procedures
- 6.1 Personal Protective Equipment
- 12.3 Hearing Protection
- 16 Machine and Tool Safety

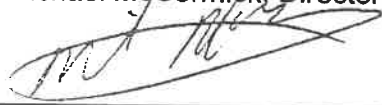
Date Written: 2017/08/08

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Date Revised:

Approved By: Michael McCormick, Director of Physical Plant

Signature: _____



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