

March 13, 2008

**BATTERIES (BOOSTING)****PURPOSE/APPLICATION**

A booster start or a jump start is the process of using the power from a charged battery to supplement the power of a discharged battery and successfully start a vehicle engine. 12volt battery systems are typically found in light duty vehicles.

**PPE**

- Safety glasses
- Gloves

**TRAINING**

- WHMIS

**TOOLS/EQUIPMENT**

- Booster cables
- Fire extinguisher

#	Job Steps	Hazards	Control Measures
1	Ensure both vehicles are in park, with the park brakes set.	Crush injury or collision from rolling vehicle.	<ul style="list-style-type: none"> <li>▪ Set the park brake on both vehicles.</li> <li>▪ Vehicles should be parked close enough (BUT NOT TOUCHING) for the cables to reach without crossing engine components.</li> </ul>
2	Turn off the ignition and all accessories in both vehicles.		
3	Confirm that both batteries are of the same voltage.	Fire &/or explosion, burn out electrical system	<ul style="list-style-type: none"> <li>▪ Ensure both batteries are 12 volt.</li> <li>▪ Do not continue with the boosting process if battery voltage cannot be confirmed.</li> <li>▪ Contact a mechanic.</li> </ul>
4	Attach one of the positive booster cable clips (red handled) to the positive (red) terminal of the booster battery.		
4	Attach the other red handled end of the positive booster cable clip to the positive terminal of the dead battery.	Sparks, Short circuits	<ul style="list-style-type: none"> <li>▪ Do not allow the ends of both cables to touch while attached to the batteries.</li> </ul>
6	Then attach the negative cable clip (black) to the negative (black) terminal of the booster battery.		

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#	Job Steps	Hazards	Control Measures
7	Connect the remaining negative end of the cable (black clip) to the engine block or thick metal frame of the vehicle with the dead battery.	Incorrect grounding can lead to sparks, fire, or explosion	<ul style="list-style-type: none"> <li>▪ Ensure that the cable is clipped to a metal part of the vehicle to ensure the system is grounded.</li> </ul>
8	Start the engine of the vehicle that has the booster battery. Let it run for a few minutes with the cables attached before trying to start the vehicle with the dead battery.		
9	After the boosted engine has been started, disconnect the booster cables in reverse order of attaching them.		
10	Clean up work area, put away all tools and equipment.	Slips, trips, falls	<ul style="list-style-type: none"> <li>▪ Ensure all tools and equipment are returned to their proper place and debris is collected and disposed of. Refer to SWP- 19 Housekeeping</li> </ul>

**Additional Precautions:**

Refer to the original equipment manufacturer's specifications for any battery configuration outside of the scope of this safe job procedure.

**Reduce the Need For Booster Starts:**

- Maintain the battery. Keep the battery and its connections clean and tight.
- Realize that repeated heavy use of a battery will shorten its productive life.
- Be careful that boost starts you give are done correctly.
- Do not use vehicle accessories when the engine is not running.
- Be sure to turn off all accessories, such as headlights and two-way radios before turning off the engine.

**REFERENCE/REGULATIONS**

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Revised by: \_\_\_\_\_ Date: \_\_\_\_\_

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