STANDARD OPERATING PROCEDURE		
Removal and Installation of Budd Pilot Mount Wheel Assemblies for Medium Trucks		Document Number: 960C-SOP-811
Original Approval Date: FEB 04, 2010	Revision Number: 4	Page 1 of 4
Latest Revision Date: APR 01, 2022	Next Revision Date: APR 01, 2025	Document Approval Level: 4

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REMOVAL AND INSTALLATION OF BUDD PILOT MOUNT WHEEL ASSEMBLIES FOR MEDIUM TRUCKS

						Sauto
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3	APP	MAR 03, 2016	Approved	H. Lau	S. Kucher / T. Siver	G. Schreyer
Rev	Status	Rev. Date	Status Description	Prepared by	Reviewed by	Approved by



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The following is a step-by-step procedure on how to complete a specific task or meet a facility specific requirement. Standard Operating Procedures (SOPs) are written for all identified critical tasks. By virtue of the hazard or complexity associated with critical tasks it is paramount that the SOP be followed as written. SOPs contain a listing of high-level hazards associated with the task, for detailed hazard analysis reference the applicable Task Hazard Assessments. SOPs do not replace the requirements contained in the company Standards, Codes, and Processes nor does it replace the need to comply with required legislation. Section 8.0 references documentation that the worker shall understand before work commences.

1.0 PURPOSE

 To establish a Company standard to safely and effectively carry out work as it applies to safely removing and installing Budd pilot mount wheel assemblies for medium trucks.

2.0 SCOPE AND APPLICATION

 This document applies to all Company Heavy Construction and Mining operations. Ensure all site-specific requirements are being met or exceeded before performing the task.

3.0 HAZARDS AND CONTROLS

- Uncontrolled movement of equipment.
 - Isolate all forms of hazardous energy and use wheel chocks.
 - Inspect equipment prior to use.
- Tool failure.
 - o Inspect all tools prior to task and ensure they have been calibrated as required.
 - Only use impact sockets with impact wrenches.
 - Fit test sockets on wheel nuts by hand prior to removal to ensure proper socket size.
 - Clean all studs and nuts with a wire brush prior to removal.
 - Keep work area clear of unnecessary tools and equipment.
 - Stay out of line of fire when using a Tire Bead Axe.
- Tire rupture during installation and removal of tires and wheel components.
 - Ensure tire-wheel assemblies are fully deflated prior to mount-dismount.
 - o Do not stand in the line of fire or trajectory zone when inflating tire.
 - Use appropriate restraining devices (i.e. tire cages) when inflating tires.
- Contact with foreign objects when deflating tires.
 - Do not stand in the line of fire, always stand to one side to avoid contact with dirt and debris.



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- Heavy and awkward lifting of wheel-tire assemblies,
 - Follow 962C-SOP-008 Manual Lifting; do not lift more than 50 lb. without assistance (second person, picker, etc.).
- Uncontrolled work area.
 - Communicate with co-workers involved in the removal-installation process.
 - Keep work area clear of unnecessary personnel, erect barriers as required.

4.0 CHECKLIST

Attend all preparatory meetings (IE: daily PSI; job scope; review of JSA's and SOPs for the job)
Complete FLRA cards before starting the work.
Ensure all personnel involved in the task are aware of the hazards and the controls to be used, as identified
in the SOP's; JSA's; and FLRA's
Conduct a pre-job inspection of all equipment to be worked on and tools to be used.
Standard of Training required for working on this job: On-the job training.

5.0 DEFINITIONS

5.1 Company

Means North American Construction Group Ltd. (NACG) and all directly or indirectly owned subsidiary companies, including joint ventures.

5.2 Company Personnel

Includes the Company's employees, officers, directors, agents, associates, consultants/contractors, temporary employees, and third-party processors.

5.3 HSE

Refers to the Health, Safety & Environment department

6.0 PROCEDURE

6.1 Removal

- (a) If the wheel assembly is multi-piece proceed to steps (2) & (3). If the wheel assembly is a single piece, proceed to step (4).
- (b) Using a standard bore core tool, deflate the tire/wheel assembly by removing the valve core from the valve. Deflate the inner and outer assemblies for dual applications.
- (c) Ensure all the air has been removed from the tire/wheel assemblies by inserting a piece of wire into the valve stem.
- (d) Select the appropriate ¾ or 1" drive impact socket for the job and test its fit on the wheel nuts by hand.



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- (e) Clean all studs and nuts with a wire brush or steam hose to allow for easy removal of nuts.
- (f) Remove wheel nuts and washers from studs using a ¾ or 1" impact wrench and the appropriate socket.
- (g) Place the wheel nuts in a safe out of the way location.
- (h) Grasp the tire/wheel assembly with two hands and remove. Use a tire bar if necessary.
- (i) Inspect the studs, nuts, washers and hub for damage or distortion and replace or repair if necessary.
- (j) For dual application, remove the inside assembly after removing the outside assembly, if necessary. If the inside assembly will not move by hand, use a bead axe to tap on the wheel until it breaks free. Do not use a bead axe on aluminium wheels. Use a rubber mallet only.

6.2 Installation

- (a) Clean and remove dirt and debris from all tire/wheel assemblies, vehicle hub assemblies, mounting surfaces and studs prior to installation.
- (b) Install tire/wheel assembly onto hub and line up studs with holes in wheel assembly.
- (c) In a dual wheel assembly, install the inner wheel assembly first and then install the outer wheel, ensuring the valve stem of the outer wheel is directly opposite the valve stem of the inner wheel.
- (d) Line up studs with stud holes and slide outer wheel assembly onto studs.
- (e) Install all lug nuts by hand.
- (f) Using a "star" pattern, gently snug the wheel nuts.
- (g) Use a standard bore inflator with an in-line gauge to inflate the tire/wheel assembly to manufacturers recommended cold tire inflation pressure.
- (h) Torque the wheel assembly (see 960C-SOP-824).

7.0 NOTES

If this task is to be done by a method different than described in this SOP, the work must **STOP**, and the alternate method must be **DOCUMENTED** with an adequate hazard assessment tool such as a JSA. The document must be **APPROVED** by a supervisor before such procedures are implemented.

8.0 REFERENCES

- Alberta Occupational Health and Safety Act, Regulation and Code Part 12, Section 193, Tire Servicing
- Alberta Occupational Health and Safety Act, Regulation and Code Part 14, Sections 208 & 209, Lifting and Handling Loads

- Tire Industry Association Earth Mover Tire Service Training Program
- Vehicle/Equipment Manufacturer Service Manuals
- Jack Manufacturer's Operation Manual
- SOP 962C-SOP-008 Manual Lifting



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- SOP 960C-SOP-501 Rad Gun Use
- SOP 960C-SOP-504 Hand Tools; Use of
- SOP 960C-SOP-824 Torqueing of Tire-Wheel Assemblies
- 950C-C-028 Hazardous Energy Isolation Code

9.0 APPENDICES

No appendices.

