

# SAFE WORK PROCEDURE

## Actuated Fastening Gun (Air Nailer)

Facility:	Written By:	Approved By:	Date Created:	Date of Last Revision:
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<b>Hazards Present:</b>	<b>PPE Required:</b>	<b>Additional Training Required:</b>
Hearing hazard Flying debris Injury from projectile Cartridge explosion	Eye protection Hearing protection Hard hat Safety footwear	

### Safe Work Procedure:

1. Only qualified workers should operate explosive actuated tools.
2. PRIOR TO USE, the tool should be inspected to ensure that:
  - a. The tool is unloaded
  - b. There is no obstruction in the barrel
  - c. All moving parts operate freely
  - d. The tool is in safe working condition
  - e. The tool must always be pointed away from any person, whether loaded or not
  - f. The tool shall not be used where flammable or explosive vapours, dust or other such substances are present
  - g. The tool is fired only when firmly held by the operator having a secure footing.
  - h. Provide adequate ventilation in confined spaces where explosive actuated tools are used
3. LOADING:
  - a. The tools should be loaded exactly as described in the applicable instruction manual
  - b. Check that the colour of the cartridge is appropriate for work being done. Charge cartridges are colour coded for strength
  - c. Make sure the barrel is empty before loading a new fastener and cartridge
  - d. Insert charges and fasteners in the proper sequence
  - e. NEVER load the tool until ready to fire
4. FIRING:
  - a. Prior to firing, make sure that protective equipment is being worn and in place
  - b. Before driving a fastener, particularly into materials where there is a possibility of over-penetration, know what is behind the work in the line of fire area. Do not fire until the area is cleared and precautions have been taken to keep it clear
  - c. The tools should always be held perpendicular to the work surface
  - d. Depress gun and pull trigger
  - e. If after firing, the fastener is not seen in place, it may be buried in the work or may not have left the bore. Do not fire another fastener before checking the bore. Failure to clear the bore before firing another pin may damage the barrel beyond repair or even cause injury
  - f. If a loaded tool jams in the firing position, place it very carefully where it cannot cause harm and repair the tool
5. MISFIRES:
  - a. A gun may misfire due to one of the following reasons: faulty cartridge, a broken firing pin or the gun put together incorrectly
  - b. Because of the danger of an accident occurring, such as a cartridge exploding in an operator's hand, the following procedures should be followed:
    - i. Once a gun has misfired, the gun should be in a closed position. Wait for a period of 15 seconds, open the gun and turn the breech plug or cartridge, so that the firing pin will strike the rim of the cartridge in another place.
    - ii. If the cartridge fails to fire a second time, wait 15 seconds, open the gun and remove the cartridge from the breech plug and place undetonated cartridge in a container of water until it can be disposed of safely.
6. FASTENING STEEL:

When fastening into steel, it is important to remember a few basic facts to assure safe and proper fastenings:

  - a. Do not fasten too close to the edge of a steel member
  - b. Do not set fasteners too close together
  - c. Do not fasten into thin steel base material

- d. Avoid OVERDRIVING the fastener. A fastener with excessive force can be damaged or broken
- 7. CLEANING:
  - a. Prior to cleaning, check tool to make sure it is unloaded
  - b. Clean and maintain tools in accordance with the manufacturer's instructions
- 8. STORAGE:
 

Explosive actuated tools should be stored unloaded in a container when not in use. An operator having a tool in his charge must not leave the tool unattended, except when it is in its proper container, and closed
- 9. CAUTION:
  - a. Do not use explosive actuated tool cartridges in firearms
  - b. Use only fasteners and cartridges recommended by the manufacturer
  - c. Do not carry cartridges loose or in a pocket, carry them in the manufacturer's package or in approved containers
  - d. Do not discard unfired cartridges carelessly
  - e. Exercise caution when using tools near live electrical circuits. Ensure fastenings do not penetrate live circuits that are buried or hidden in the base material
- 10. NOTES:
  - a. Brace yourself at all times when working on ladders or scaffolds to maintain good balance
  - b. Do not carry loaded tools from job to job
  - c. Do not permit bystanders in the immediate vicinity of the work. It may be necessary for the working area to be shielded to protect against possible ricochet
  - d. Remove defective tools from service, tag out and remove immediately until repaired or replaced
  - e. Do not place your hand over the front (muzzle) end of a loaded tool
  - f. Use only projectiles (nails, studs, etc.) recommended by the tool manufacturer
  - g. Ensure that base material has no holes or openings and is of sufficient consistency that a projectile would not pass right through
  - h. Do not load tool until immediately before use
  - i. Do not force a projectile into a working surface which is harder than the projectile being used. If the base material is unknown, use a hand hammer to drive the projectile, using it as a centre punch
  - j. Do not leave loaded tool unattended

***If an emergency situation occurs while conducting this task, or there is an equipment malfunction, engage the emergency stop and follow the lockout procedure.***

**REPORT ANY HAZARDOUS SITUATIONS TO YOUR SUPERVISOR**

<p><b>Guidance Documents/Standards:</b></p> <p>Operator/Owner's Manual</p> <p>MB Workplace Safety &amp; Health Regulation 217/2006:</p> <p>2.1.1 Safe work procedures</p> <p>6 Personal Protective Equipment</p> <p>16 Machines, Tools and Robots</p>	<p><b>This Safe Work Procedure will be reviewed at any time the task, equipment or materials change and at a minimum of every three years.</b></p> <hr/> <p>Reviewed:</p> <p>Date: July 6, 2013</p>
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