



Training Objectives

- Types of Aerial Lifts
- Safety information
- Operations/Pre-Operation Inspection
- Work place Inspection
- Set-up
- Standard Features
- Safe Work Practice
- Two Major Safety Hazards
- Personal Protective Equipment
- Hazards/Precautions

Types of Aerial Lifts and locations

– Scissor Lifts

Platform heights 15' – 53'



- Telescopic Boom Lifts Platform heights 45' – 125'



Safety Information:

Work platform is to be used by trained and authorized operators only.

Operations:

- Only Authorized persons can operate lifts (Classroom, Hands-on competency is required).
- Aerial Lifts are checked out or reserved by authorized persons only.
- Ground personnel must be properly trained and authorized for lift operation.
- Inspection of the lift must be performed before use.

Pre-Operation Inspection

- Be sure that the manuals are legible and in the storage container located on the platform
- Be sure that all decals are legible and in place
- Check the hydraulic power unit oil level
- Platform and Ground Control Panel must be tested prior to use to determine that such controls Panel are in safe working condition.

Work Place Inspection

- Do a visual inspection of the work area prior to beginning work
 - Hazardous locations
 - Drop-offs or holes
 - Bumps, floor obstruction or debris
 - Inadequate surface support to withstand all load forces imposed by the machine
 - Clearance
 - Overhead obstructions
 - High voltage conductors
 - The presence of unauthorized personnel
 - Other possible unsafe conditions

Set up

- Position machine below desired work area
- Insert key and turn to the ground control position
- Pull out the red Emergency Stop buttons at the ground and platform controls

Safe Work Practices

- Ground controls shall not be operated during use, unless instructed to do so by person in the platform or in an emergency.
- Never elevate platform unless all four (4) outriggers are properly installed, leveling jacks contact floor and base is level.
- Never adjust leveling jacks while platform is occupied.

Safe Work Practices Cont.

- Employees shall always stand firmly on the floor of the basket.
 - Do not stand, sit or climb on edge of the basket or guard rails.
 - Do not use planks, ladders, or other devices for a work position.
- Keep the platform floor clear of debris.
- Do not override safety devices.
- Learn and practice the principles of safe machine operation contained in the operator's manual.

Two Major Safety Hazards:

- <u>Electrocution Hazards</u> Caused by operating close to power lines.
 - It is easy to accidentally contact energized power lines.
 - This machine is not electrically insulated and will not provide protection from contact with electrical current.
 - If lift comes in contact with energized lines, personnel on the ground or in the platform must not touch or operate the machine until energized power lines are shut off.
 - Do not operate the machine during lighting or storms.

Two Major Safety Hazards Cont.

- Fall Hazards Caused by improper operation and/or improper set up.
 - Fall hazard due to the potential for being bounced out of lift or from climbing out of the basket.
 - Over reaching
 - Swinging under over hanging limbs, structures or lines.
 - Stumbling over tools inside the basket.

Personal Protective Equipment

- Hard hats and Safety glasses are required whenever working from an aerial lift.
- A full body harness and lanyard shall be worn
- Lanyard needs to be attached to anchor provided in platform when working from an aerial lift.
- All Aerial Lift operators must visual inspect the body harness & lanyard before each use.

Hazards / Precautions

– Tip-Over Hazards

- Do not drive or position lifts near the edge of loading docks drop-offs or holes.
- Do not raise platform on uneven or soft surfaces
- Do not drive onto uneven or soft surfaces when elevated
- Do not raise platform in windy or gusty conditions
- Do not use the platform as a crane (the TMZ-34/19 has a cargo hook that can be used in place of the platform to lift 500 pound loads).
- Do not place or attach overhanging loads to any part of the platform.

Hazards / Precautions Cont.

- Tip over Hazards Cont.
 - Do not place ladders or scaffolds in platform or against any part of this machine.
 - Be sure all tires are in good condition and lug nuts are properly tightened.
 - Do not push the machine or other objects with the boom.
 - Do not contact adjacent structures with the boom.

Hazards / Precaution Cont.

– Collision Hazards

- Be aware of boom position when rotating.
- Do not lower the boom unless the area below is clear of personnel and obstructions.
- Check work area for overhead obstructions or other possible hazards.

Hazards/Precaution Cont.

– Component Damage Hazards

• Do not fully lower the booms unless the booms are aligned with the tongue. The booms must be lowered onto the boom rests.

Hazards / Precaution Cont.

- Lifting Hazards
 - Use proper lifting techniques to move, load or unload the machine.
 - Use proper lifting techniques when installing or removing the platform.
- Damaged Machine Hazards
 - Do not use a damaged or malfunctioning machine.

Hazards / Precaution Cont.

- Battery Safety
 - Burn Hazards
 - Batteries contain acid. Always wear protective clothing and eyewear when working with batteries.
 - Explosion Hazards
 - Do not contact the battery terminals or the cable clamps with tools that may cause sparks.
 - Electrocution Hazards
 - Inspect daily for damage cord, cables and wires. Replace damaged items before operating
 - Lifting Hazard
 - Use the appropriate number of people and proper lifting techniques when lifting batteries.

Aerial Lifts - Ground Panel Controls



- 1 Secondary boom raise/lower buttons
- 2 Horn
- 3 Jib boom raise/lower buttons
- 4 Stop indicator light
- 5 Emergency Stop Button
- 6 Outrigger interlock display lights

- 7 Key Switch for ground/off/platform selection
- 8 Battery charge indicator
- 9 Speed select buttons
- 10 Power indicator lights
- 11 Turntable rotate left/right buttons
- 12 Primary boom raise/lower buttons