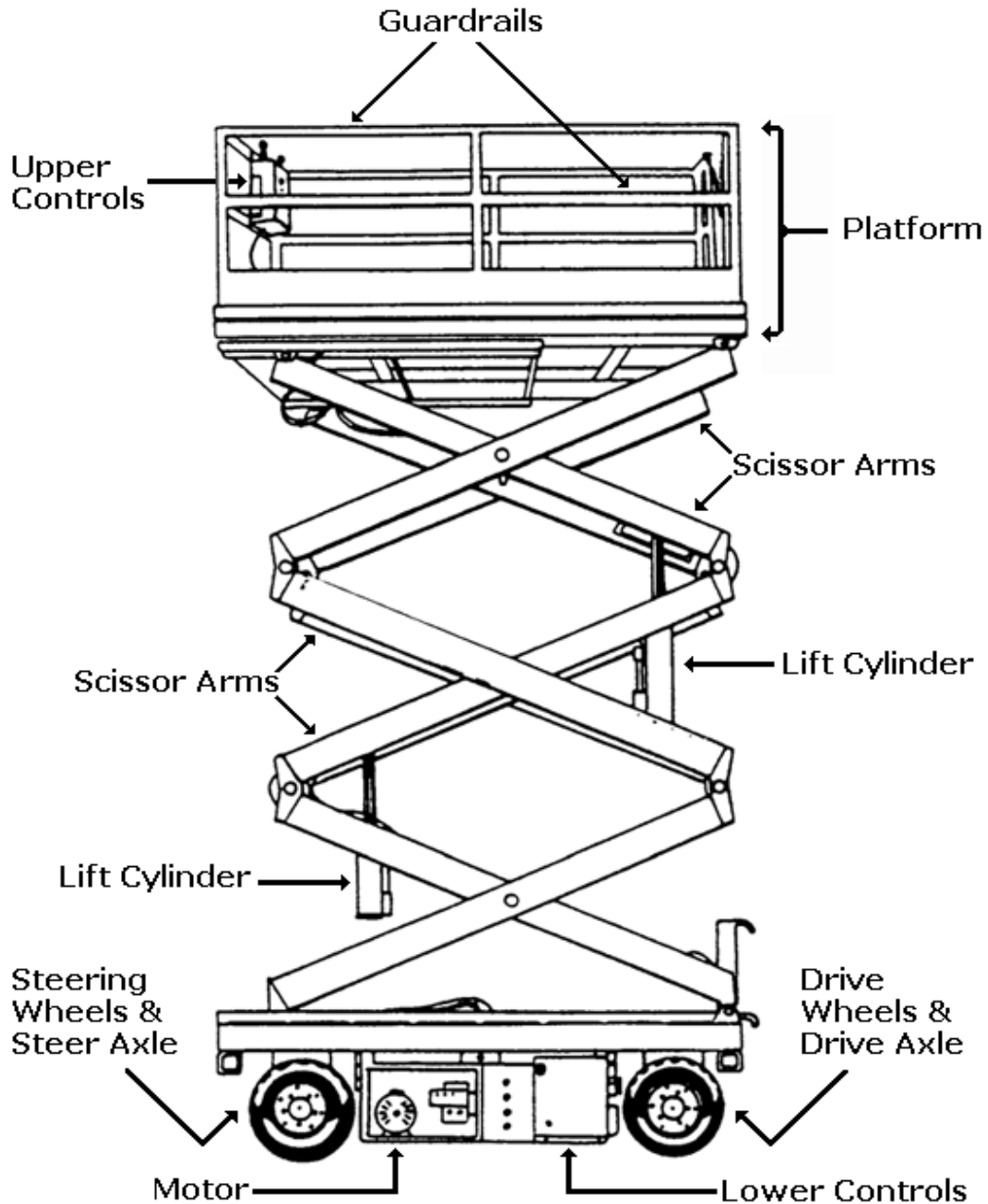


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Failure to obey the instructions and safety rules in this document can result in death or serious injury. As with all safe work practices, these are minimum requirements. Each situation requires an evaluation of the work environment and a qualified operator familiar with the equipment.

There are many different types and sizes of scissor lifts, however they will all have certain parts which are essential to the way scissor lifts work. Below are a few of those features.

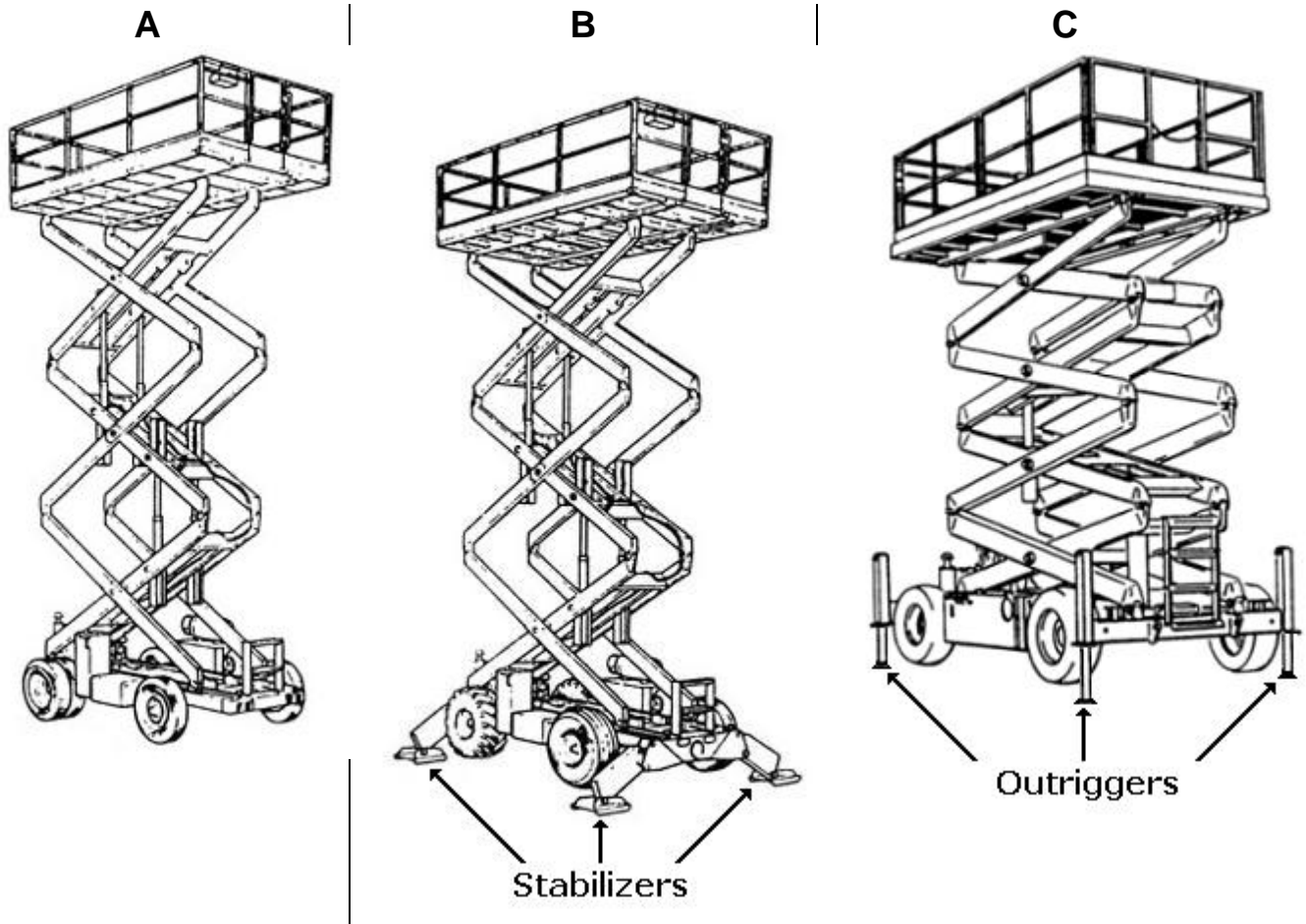


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A major difference among scissor lifts is between those that are made for indoor use and those that are made for outdoor use. Indoor scissor lifts (lift A below), or “slab” lifts, are made by their manufacturers to be used on smooth and level ground only. Outdoor scissor lifts (lifts B and C below), or “rough terrain lifts,” are meant for use on slightly sloped and rough ground. Rough terrain scissor lifts come equipped with additional stabilizers (B below) or outriggers (C below) which allow them to be placed on sloped or rough ground while the platform is elevated. Scissors lifts used for outdoor use require review and signoff of this document as well as additional documented training or instruction on their use and safe practices by the manufacturer, knowledgeable distributor, or a qualified and competent person as defined by OSHA.



Even if intended for outdoor use and equipped with stabilizers or outriggers, the units must not be used when sloping conditions or other factors jeopardize safe working conditions. Operators must be knowledgeable in the use of stabilizers and outriggers, their intent and purpose, and how they work. Make sure machine is level and all supports are on a flat, firm surface.

When working at heights, all scissor lifts operators must be alert to any possible mishap such as overhanging features and even traffic conditions. Operators must also take into consideration weather conditions when using a

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scissors lift out of doors. Scissors lift use is prohibited when it is raining, snowing, sleeting, in elevated winds, or there is a chance of lightning. The deck of the lift and the ground pathway must be free of slippery conditions.

**Do Not Operate a Scissors Lift Unless:**

- You learn and practice the principles of safe machine operation contained in this document. Avoid hazardous situations. Know and understand the safety rules before going on to the next section.
- Hard hats will be worn with brim forward whenever operating or working near a scissors lift.
- Always perform a pre-operation inspection.
- Always perform function tests prior to use.
- Inspect the workplace for hazardous situations, including debris in the pathway of the unit.
- You use the machine only as it was intended.
- You read, understand and obey the manufacturer's instructions and safety rules, safety and operator's manuals and machine decals
- You read, understand and obey the University's safety rules and worksite regulations
- You have been instructed on and understand the operation of the vehicle and its controls

**Electrocution Hazards: Do Not Touch Electrical Lines!**

This machine is **not** electrically insulated and will not provide protection from contact with or proximity to electrical current.

- Allow for platform movement, electrical line sway or sag and beware of strong or gusty winds.
- Keep away from the machine if it contacts energized power 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 if exposed to lightning or storms.
- Do not use the machine as a ground for welding.



Maintain safe distances from electrical power lines and apparatus in accordance with applicable regulations and the following chart. For voltages to ground 50kV or below - 10 feet); For voltages to ground over 50kV - 10 feet plus 4 inches for every 10kV over 50kV.

Voltage Phase to Phase	Minimum Safe Approach Distance (Feet)		Voltage Phase to Phase	Minimum Safe Approach Distance (Feet)
0 to 300V	Avoid Contact		350KV to 500KV	25
300V to 50KV	10		500KV to 750KV	35
50KV to 200KV	15		750KV to 1000KV	45
200KV to 350KV	20			

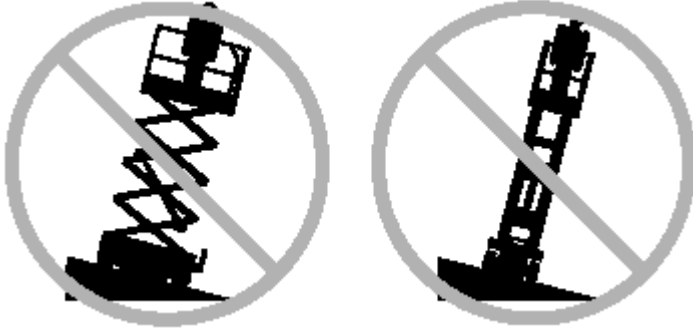
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**Tip-over Hazards**

- Occupants, equipment and materials must not exceed the maximum platform capacity or the maximum capacity of the platform extension if so equipped.
- Do not raise the platform unless the machine is on a firm, level surface.



- Do not depend on the tilt alarm as a level indicator. The tilt alarm sounds on the chassis only when the machine is on a slope.
- If the tilt alarm sounds: Lower the platform. Move the machine to a firm, level surface. If the tilt alarm sounds when the platform is raised, use extreme caution to lower the platform.
- Do not alter or disable the limit switches.
- Do not drive over 0.5 mph with the platform raised.
- Do not operate the machine in strong or gusty winds. Do not increase the surface area of the platform or the load. Increasing the area exposed to the wind will decrease machine stability.



- Do not drive the machine on or near uneven terrain, unstable surfaces or other hazardous conditions with the platform raised.
- Use extreme care and slow speeds while driving the machine in a stowed position across uneven terrain, debris, unstable or slippery surfaces and near holes and drop-offs.
- Do not use the platform controls to free a platform that is caught, snagged or otherwise prevented from normal motion by an adjacent structure. All personnel must be removed from the platform before attempting to free the platform using the ground controls.
- Do not push off or pull toward any object outside of the platform

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- Do not alter or disable machine components that in any way affect safety and stability.
- Do not modify or alter an aerial work platform without prior written permission from the manufacturer. Mounting attachments for holding tools or other materials onto the platform, toeboards or guardrail system can increase the weight in the platform and the surface area of the platform or the load.
- Do not replace items critical to machine stability with items of different weight or specification.
- Do not place or attach fixed or overhanging loads to any part of this machine.
- Do not transport tools and materials unless they are evenly distributed and can be safely handled by person(s) in the platform.



- Do not place ladders or scaffolds in the platform or against any part of this machine.
- Do not use the machine on a moving or mobile surface or vehicle.
- Be sure all tires are in good condition, castle nuts are properly tightened and cotter pins are properly installed.
- Do not use batteries that weigh less than the original equipment. Batteries are used as counterweight and are critical to machine stability.
- Do not use the machine as a crane or hoist.
- Do not push the machine or other objects with the platform.
- Do not contact adjacent structures with the platform.
- Do not tie the platform to adjacent structures.
- Do not place loads outside the platform perimeter.
- Do not operate the machine with the chassis trays open.

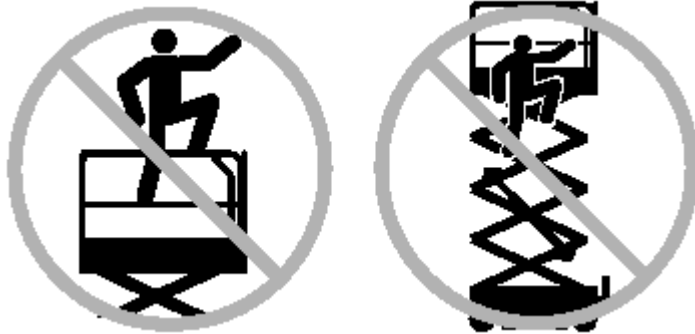
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**Fall Hazards**

- The guardrail system provides fall protection.
- Do not sit, stand or climb on the platform guardrails. Maintain a firm footing on the platform floor at all times.
- Do not climb down from the platform when raised.
- Keep the platform floor clear of debris.
- Do not operate the machine unless the guardrails are properly installed and the entry access gate, bar, chain, etc. is secured for safe operation.

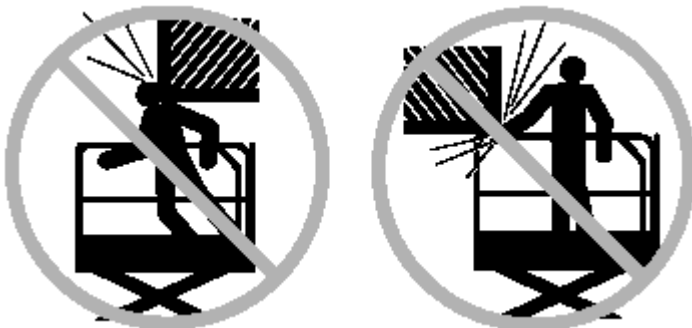


**Collision Hazards**

- Be aware of limited sight distance and blind spots when driving or operating.



- Be aware of extended platform position when moving the machine.
- The machine must be on a level surface or secured before releasing the brakes.
- Operators must comply with employer, job site and governmental rules regarding use of personal protective equipment.
- Check the work area for overhead obstructions or other possible hazards before operating or moving.



- Be aware of crushing hazards when grasping the platform guardrail.
- Observe and use color-coded direction arrows on the platform controls and platform decal plate for drive and steer functions.
- No horseplay while operating a machine.
- Do not lower the platform unless the area below is clear of personnel and obstructions.

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- Limit travel speed according to the condition of the ground surface, congestion, slope, location of personnel, and any other factors which may cause collision.
- Do not operate a machine in the path of any crane or moving overhead machinery unless the controls of the crane have been locked out and/or precautions have been taken to prevent any potential collision.

**Crushing Hazards**

- Keep hands and limbs out of scissers.
- Use pre-task planning when operating the machine with the controller from the ground.
- Maintain safe distances between the operator, the machine and fixed objects.

**Component Damage Hazard**

- Do not use the machine as a ground for welding.

**Explosion and Fire Hazard**

- Do not operate the machine or charge the battery in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.

**Damaged Machine Hazards**

- Do not use a damaged or malfunctioning machine.
- Conduct a thorough pre-operation inspection of the machine and test all functions before each work shift. Immediately tag and remove from service a damaged or malfunctioning machine.
- Be sure all decals are in place and legible.
- Be sure the operator's, safety, and responsibilities manuals are complete, legible and in the storage container located on the platform.

**Bodily Injury Hazard**

- Do not operate the machine with a hydraulic oil or air leak. An air leak or hydraulic leak can penetrate and/or burn skin.
- Improper contact with components under any cover will cause serious injury. Only trained maintenance personnel should access compartments. All compartments must remain closed and secured during operation.
- Send defective equipment back to the vendor; do not perform any maintenance on the machine unless you have written authorization to do so.

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**Personal Protective Equipment**

	<p>1. You must select and wear the appropriate type of PPE called for by job conditions. This will include:</p> <ul style="list-style-type: none"> <li>• Hardhats-required all the time when moving, using or spotting <ul style="list-style-type: none"> <li>• Safety eyewear-mandatory at all times <ul style="list-style-type: none"> <li>• Work gloves as needed</li> </ul> </li> <li>• Hearing protection as needed</li> </ul> </li> <li>• Respiratory or filter masks as needed</li> <li>• Shoes w/non-slip soles mandatory at all times</li> <li>• Protective clothing or coveralls as needed</li> <li>• Electrical safety clothing/items as needed</li> <li>• Other as task specific and/or required by the work environment (must be identified &amp; obtained before using lift)</li> </ul>
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In signing this document I acknowledge that I have read it, understand that it contains minimum requirements regarding safe use of this machine, that I have had the opportunity to ask questions regarding the operation of this equipment and I will adhere to these requirements. I recognize that I can refuse to operate this equipment if the situation or conditions suggest that my safety may be at risk.

\_\_\_\_\_

In signing this document I acknowledge that I have reviewed it with the above signed. I understand that it contains minimum requirements regarding safe use of this machine, that the above signed has had the opportunity to ask questions regarding the operation of this equipment and he/she is expected to comply with these requirements. I recognize that the above signed can refuse to operate this equipment if the situation or conditions suggest that his/her safety may be at risk.

\_\_\_\_\_

In signing this document, I acknowledge that I have reviewed it with the above signed operator and provided him/her with a "hands-on" instruction of the equipment. I have provided the operator with the opportunity to ask questions so that he/she may fully understand safe operation of the equipment.

\_\_\_\_\_