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## Standard information

Trailer tipper assemblies are crucial for efficiently unloading bulk materials such as sand, gravel, or agricultural products. However, improper use can lead to serious injuries, equipment damage, and downtime. This manual provides safety guidelines to ensure safe operation, maintenance, and troubleshooting of trailer tipper assemblies.

## General Safety Precautions

### Pre-Operation Inspection:

- Inspect the hydraulic system for leaks or damage.
- Check tires for proper inflation and wear.
- Ensure the trailer bed is free from debris or materials that could obstruct tipping.
- Verify the locking pins or safety locks are securely engaged.

### Personnel Training:

- Operators must be trained and certified in the use of trailer tipper assemblies.

### Environmental Awareness:

- Avoid operating on uneven or unstable ground.
- Ensure the tipping area is clear of people and obstructions.



## Operating Guidelines

### Positioning the Trailer:

- Align the trailer on firm and level ground before tipping.
- Engage the parking brake and use wheel chocks to prevent movement.

### Loading the Trailer:

- Distribute the load evenly to avoid imbalances.
- Do not exceed the trailer's maximum load capacity.

### Tipping the Load:

- Ensure all safety locks are disengaged before tipping.
- Use slow and steady hydraulic movements to raise the trailer bed.
- Keep a safe distance during tipping operations.
- Monitor the angle of tilt; avoid extreme angles that may cause the trailer to overturn.

### Lowering the Bed:

- Lower the trailer bed slowly to avoid sudden impacts.
- Engage locking mechanisms once the bed is fully down.

## Prohibited Practices



- Do not operate the trailer tipper near live electrical wires.
- Avoid using damaged or malfunctioning equipment.
- Never bypass safety mechanisms or attempt unauthorized modifications.
- Do not stand underneath the raised trailer bed.



## Maintenance Safety

### Daily Checks:

- Inspect hydraulic hoses and cylinders for leaks or cracks.
- Verify the proper functioning of the control valves and safety locks.

### Scheduled Maintenance:

- Replace hydraulic fluids and filters as recommended by the manufacturer.
- Lubricate all moving parts to reduce wear and tear.
- Check structural components, such as the frame and hinges, for signs of corrosion or fatigue.

### Storage:

- Store the trailer in a dry and secure area.
- Ensure the hydraulic system is depressurized during long-term storage.

## Emergency Procedures

### Hydraulic Failure:

- Immediately stop operations and lower the bed manually or using backup systems.
- Shut off the engine and isolate the hydraulic circuit to prevent further leakage.

### Overtipping Risk:

- If the trailer begins to tip over, evacuate the area and alert others.
- Avoid attempting to stabilize the trailer manually.