Safety Chariot - Operating and Safety Manual

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1. Introduction

Welcome to the **Safety Chariot**! This lightweight, four-wheel mobility solution is designed for maximum safety and efficiency. With a top speed of 8 mph, adjustable throttle, 4-wheel disc brakes, a backrest for comfort, a loud horn, and a kill switch for emergency stops, the Safety Chariot is perfect for navigating worksites, warehouses, and other industrial environments. This manual will guide you through proper operation, maintenance, and safety practices.

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2. Product Overview

- **Weight**: 78 lbs
- **Max Speed**: Adjustable, up to 8 mph
- **Braking System**: 4-wheel disc brakes
- **Platform Height**: 4 inches from ground
- **Visibility Features**: Strobe lights, front and rear headlights
- **Safety Features**: Loud horn, backrest for operator comfort, emergency kill switch
- **Additional Features**: Fire extinguisher attached, adjustable throttle, inflatable tires

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3. Key Features and Functions

3.1 Throttle Control

The Safety Chariot is equipped with an adjustable throttle. You can regulate the speed to match the working environment. The max speed is set to 8 mph, but you can reduce it as needed for tighter areas or increased safety.

3.2 Braking System

The chariot has a 4-wheel disc braking system for precise, reliable stopping. Apply the brakes gently to avoid sudden jerks and minimize wear on the system.

3.3 Loud Horn

A loud horn is included to alert nearby personnel. This is especially useful in noisy environments, ensuring you remain aware of your surroundings.

3.4 Strobe Lights and Headlights

Front and rear headlights provide visibility in low-light areas, while the strobe lights make the vehicle highly visible to others around you.

3.5 Backrest

For increased operator comfort, the Safety Chariot includes a padded backrest. This ensures that longer operating periods remain comfortable, reducing fatigue.

3.6 Kill Switch

The chariot is equipped with an emergency **kill switch** that instantly shuts off the motor in the event of an emergency. This is a critical safety feature that should only be used when absolutely necessary, such as a sudden loss of control.

3.7 Fire Extinguisher

A fire extinguisher is attached to the frame, ensuring the vehicle is prepared to assist in small fire emergencies.

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4. Operating Instructions

4.1 Pre-Operation Checklist

Before operating the Safety Chariot, ensure the following steps are completed:

- Inspect tires for proper inflation.
- Check that the throttle, brakes, and kill switch are functioning properly.
- Ensure strobe lights, headlights, and the horn are operational.
- Make sure the fire extinguisher is properly secured and in working condition.
- Adjust the throttle to the appropriate speed for the work area.

4.2 Starting the Vehicle

1. Ensure the chariot is powered on by switching the main **power button**.
2. Adjust the **throttle** to the desired speed.
3. Gently push the throttle to accelerate, keeping a steady pace based on the environment.

4. Use the **brake lever** to slow down or stop when needed.

4.3 Safe Driving Practices

- **Maintain a steady speed**: Avoid rapid acceleration or deceleration.
- **Sound the horn**: Use the loud horn when approaching blind corners or to alert nearby personnel.
- **Monitor your surroundings**: Always be aware of pedestrians, obstacles, or other vehicles.
- **Drive at appropriate speeds**: Reduce speed when navigating tight spaces or corners.
- **Stop safely**: Gradually apply the brakes to come to a controlled stop.

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5. Safety Guidelines

5.1 General Safety Rules

- **Do not exceed 8 mph** for normal operation.
- **Always wear appropriate personal protective equipment (PPE)**, such as helmets, gloves, or reflective vests.
- **Keep both hands on the handlebars** at all times while operating the Safety Chariot. This ensures maximum control over the vehicle and reduces the risk of accidents.
- **Maintain proper foot positioning**: For better stability, position **one foot slightly forward and the other foot back** on the platform. This stance helps improve balance and control, especially during acceleration and braking.
- **Bend your knees when turning**: To increase stability while making turns, slightly **bend your knees**. This lowers your center of gravity and improves your ability to maintain balance during tight or fast turns.
- **Keep the platform clear**: Avoid standing or riding with large objects that could obstruct your view or cause imbalance.
- **Do not overload the vehicle**: The chariot is designed for a single operator and light equipment only.
- **Never leave the vehicle unattended** with the power on.

5.2 Emergency Procedures

- **Use the kill switch**: In the event of a sudden malfunction or loss of control, press the **kill switch** to immediately cut power to the motor.
- **In case of fire**: Use the onboard fire extinguisher to address small fires. If the fire is too large to control, evacuate the area and call emergency services.

5.3 Tipping Prevention

- The **low platform** and **4-wheel design** make tipping unlikely. However, avoid sharp turns at high speeds, especially in areas with uneven surfaces.
- **Always grip the handlebars firmly** with both hands to maintain balance and control.
- **Bend your knees and position your feet properly**: When making a turn, **bend your knees slightly** to improve stability and **position one foot forward and one back** to help you balance better, reducing the chance of tipping over.
- Always approach slopes or inclines slowly.

5.4 Safe Dismounting

- Always come to a **complete stop** before stepping off the platform.
- Use the **backrest** and handlebars for support when stepping off the vehicle.
- Ensure you are stepping onto a level, secure surface when dismounting.

5.5 Avoiding Run-Over Incidents

- The inflatable tires are designed to minimize injury if the chariot accidentally runs over a foot, but always maintain a safe distance from other workers.
- Use the horn to alert nearby personnel if you are operating in a crowded space.

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6. Maintenance Instructions

6.1 Routine Maintenance

- **Brakes**: Inspect the brake system regularly and ensure that the brake pads are not worn out.
- **Tires**: Check the tire pressure weekly and refill as needed.
- **Lights and Horn**: Test the horn, strobe lights, and headlights daily before operation.
- **Throttle and Kill Switch**: Periodically check that the throttle responds smoothly and that the kill switch functions properly.

6.2 Cleaning

- Wipe down the chassis with a damp cloth to remove dust and debris.
- Avoid using high-pressure water near electrical components.

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7. Troubleshooting Guide

8. Operator Safety Checklist

Before each shift, operators should complete the following checklist:

- Vehicle powered on and functional.
- **Both hands firmly grip the handlebars** during operation.
- **Feet positioned properly** (one foot forward, one back for stability).
- **Knees bent slightly** when making turns for enhanced balance.
- Throttle, brakes, lights, horn, and kill switch tested.
- Tires properly inflated.
- Fire extinguisher present and functional.
- Platform clear of obstructions.

These additions reinforce the importance of balance and stability during operation, improving both safety and control while using the Safety Chariot. Let me know if there are any other elements you'd like to adjust!

9. Conclusion

The **Safety Chariot** is designed for efficient, safe operation in industrial and warehouse environments. Its compact, lightweight design, safety features like the kill switch and loud horn, and ease of use make it the ideal choice for improving worksite productivity while minimizing risks.

By following this manual, you will ensure that both the vehicle and the operator remain safe, productive, and efficient.