

EXTRACTION MOBILE CART

OPERATIONS & SAFETY MANUAL

Powered by Chariot360

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1 — SYSTEM OVERVIEW

Purpose: Explain what the system is and how it is used.

- System description
- Non-medical use disclaimer
- Components list

Reference Image:

- Chariot360 pulling the cart (side view)
 - Four-wheel cart configuration
 - Overall system scale
-

2 — MECHANICAL INTERFACES & LOCKING MECHANISMS

Purpose: Explain locking logic.

- Front hitch/pin connection photo

Label:

“Front Hitch — Locks Cart to Chariot360”

3 — REAR BED CAPTURE & LEVER LOCK

- Rear bed capture/lever lock photo

“Rear Lock — Secures Bed to Cart”

4 — BED LOADING & SECURING PROCEDURE

Purpose: Provide step-by-step clarity.

- Align bed wheels with rails
 - Roll bed forward on rails
 - Seat bed fully
 - Engage rear locking lever
-

5 — FRONT BED LOCKING MECHANISM (PRIMARY SAFETY LOCK)

The front bed locking system secures the stretcher directly to the Chariot360 frame.

- Top view of bed on rails
- Alignment and direction of travel shown

Locking Procedure:


1. Align the bed with the front attachment bracket
2. Lower the bed into the receiving cradle
3. Insert the locking pin fully
4. Push until the pin seats completely
5. Verify visually and physically:
 - Pin fully inserted
 - No vertical or lateral movement

 **Bed must be locked BEFORE any movement**

6 — PRE-OPERATION SAFETY CHECKLIST

Purpose: Prevent errors before movement.

- ☐ Front hitch pin installed and secured
- ☐ Rear bed lock engaged
- ☐ Bed restraints secured (no slack)
- ☐ Wheel clearance verified
- ☐ Steering centered prior to start
- ☐ Load balanced on rails
- ☐ Path of travel clear
- ☐ Operator positioned forward with clear line of sight

 **Do not proceed if any item is unchecked**

7 — STEERING ENVELOPE & TURNING LIMITS (CRITICAL PAGE)

Purpose: Define maximum allowable steering input.

- Top-down steering envelope diagram
- Chariot360 pulling cart
- Color zones:
 - Green: 0–20°
 - Yellow: 21–35°
 - Orange: 36–50°
 - Red: >50° **PROHIBITED**

MAXIMUM STEERING INPUT: 50°

8 — TURNING & MANEUVERING RULES

Purpose: Explain what the steering diagram means.

- Wide turns required
 - Reduce speed beyond 35°
 - Use multi-point turns
-

9 — LOAD BEHAVIOR & STABILITY CONSIDERATIONS

Purpose: Explain load behavior in plain language.

- Side-tilt / stability illustration
- Center-of-gravity reference

Explanation of:

- Load swing
 - Hitch side-load
 - Why sharp turns are dangerous
-

10 — SPEED & OPERATING LIMITS

Purpose: Reinforce safe operation.

- Recommended operating speeds
 - Turning speed limits
 - Indoor use only
-

11 — PROHIBITED ACTIONS

Purpose: Legal and safety protection.

- ✗ Sharp turns
 - ✗ Exceeding 50°
 - ✗ Operating with unlocked bed
 - ✗ Uneven terrain
-

12 — EMERGENCY STOP & FAILURE RESPONSE

Purpose: Define actions if something goes wrong.

If an instability, obstruction, or restraint issue occurs:

1. Stop immediately
2. Stabilize the cart
3. Do not attempt correction while moving
4. Resolve the issue before resuming

13 — MAINTENANCE & INSPECTION REQUIREMENTS

Purpose: Prevent failure.

- Inspect before each use
- Inspect weekly under active use
- Re-torque fasteners monthly
- Replace damaged pins or restraints immediately
- Clean debris from wheel assemblies

14 — DISCLAIMER & OPERATOR RESPONSIBILITY

This equipment:

- Is **not a medical device**
- Is **not intended for highway use**
- Is **not a replacement for ambulance transport**

The Extraction Mobile Cart is a non-medical, low-profile transport platform designed to enable rapid, controlled extraction of an injured individual within a facility.

The system uses a **dedicated stretcher that is permanently secured to the cart.**
At no time is the stretcher removed from the cart.

The cart's sole function is to:

- Transport an injured individual on a cart-mounted stretcher

- Maintain a low center of gravity
- Enable movement 2–3× faster than walking
- Deliver the individual to a designated transfer location

The Extraction Mobile Cart is not designed to replicate ambulance loading, ambulance height, or medical handling procedures.

STRETCHER HANDLING — OPERATIONAL REQUIREMENT

- The stretcher:
 - Is mechanically locked to the cart at all times
 - Remains attached during placement, transport, staging, and transfer
 - Is not intended to function as a standalone stretcher
- Ambulance or medical responders bring and use their own stretcher
- Transfer occurs only between:
 - The cart-mounted stretcher, and
 - The ambulance stretcher at the transfer location

SAFETY REQUIREMENT — STRETCHER NEVER REMOVED

WARNING

The stretcher shall remain secured to the Extraction Mobile Cart at all times.

Removal of the stretcher from the cart is not permitted.

The system is not designed for lifting, re-mounting, or loading an occupied stretcher onto the cart.

Transfer shall occur only between the cart-mounted stretcher and a medical responder stretcher provided at the transfer location.

15 — APPROVAL & REVISION CONTROL

Approved By: _____

Signature: _____

Date: _____

MISSION STATEMENT

The Extraction Mobile Cart is designed to reduce response time, minimize physical strain, and enable controlled movement when every second matters.



Scan for Manuel
EMC & CHARIOT

Email: info@chariot360.com

Chariot360 pulling the cart (side view)



Front hitch/pin connection photo



Rear bed capture/lever lock photo



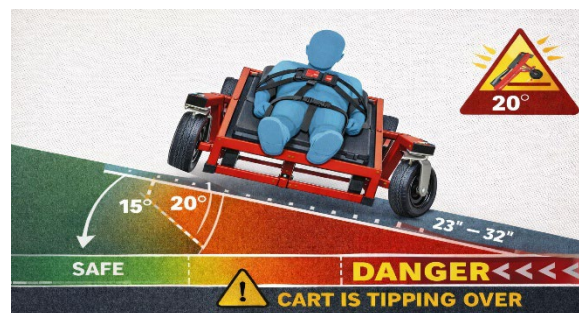
Top view of bed on rails



Do not remove the stretcher while in use.

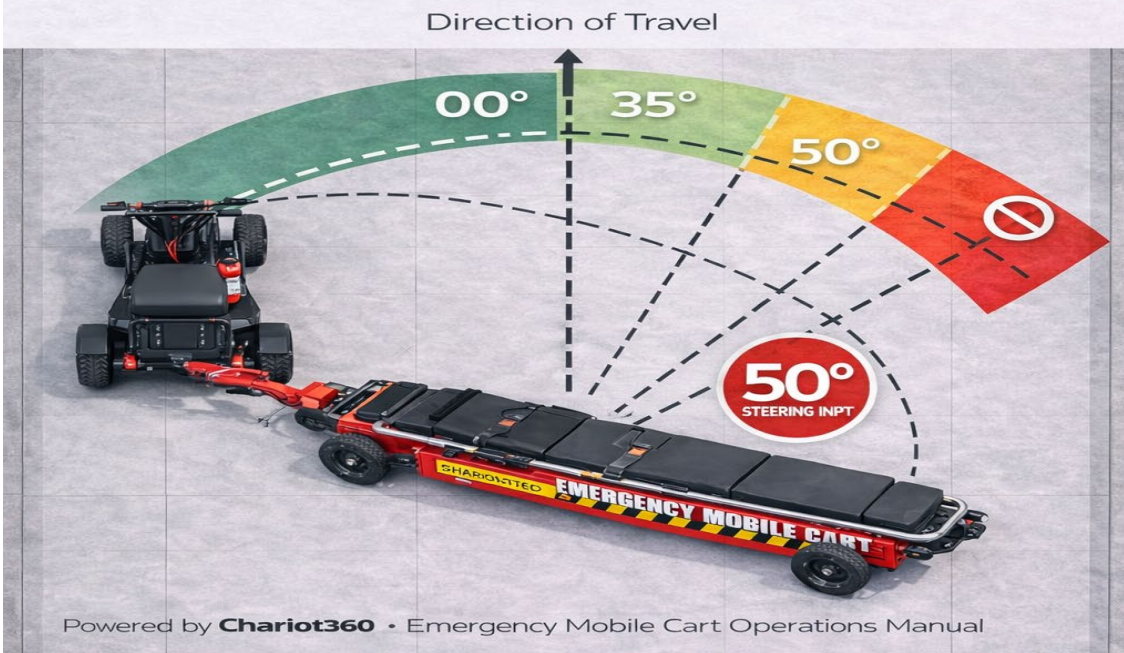


Top-down steering envelope diagram



Explain what the steering diagram means

LOADED EXTRACTION CONFIGURATION



✓ SAFE	⚠ CAUTION	⚠ RESTRICTED	⊘ PROHIBITED
0°-20°	21°-35°	36°-50°	>50°
<ul style="list-style-type: none"> ✓ Minimal load swing ✓ Stable towing ✓ Indoor speed 	<ul style="list-style-type: none"> ✓ Reduce speed ✓ Wide, gradual turn 	<ul style="list-style-type: none"> ✓ Walking speed only ✓ Large turning radius ✓ Spot for tire clearance 	<ul style="list-style-type: none"> ✓ Wheel interference ✓ Hitch side-load ✓ Tip-over risk

⚠ MAXIMUM STEERING INPUT: 50°

- ⚠ DO NOT EXCEED 50° STEERING INPUT
- ▲ USE MULTI-POINT TURNS IF TIGHT ON SPACE



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