Power-LOAD
power-loading cot fastener system

Shown with optional accessories.

Reduce the risk of injuries when loading and unloading cots

Lifts and lowers the cot into and out of the ambulance, reducing spinal loads and the risk of cumulative trauma injuries.

Power raise and lower for loading and unloading

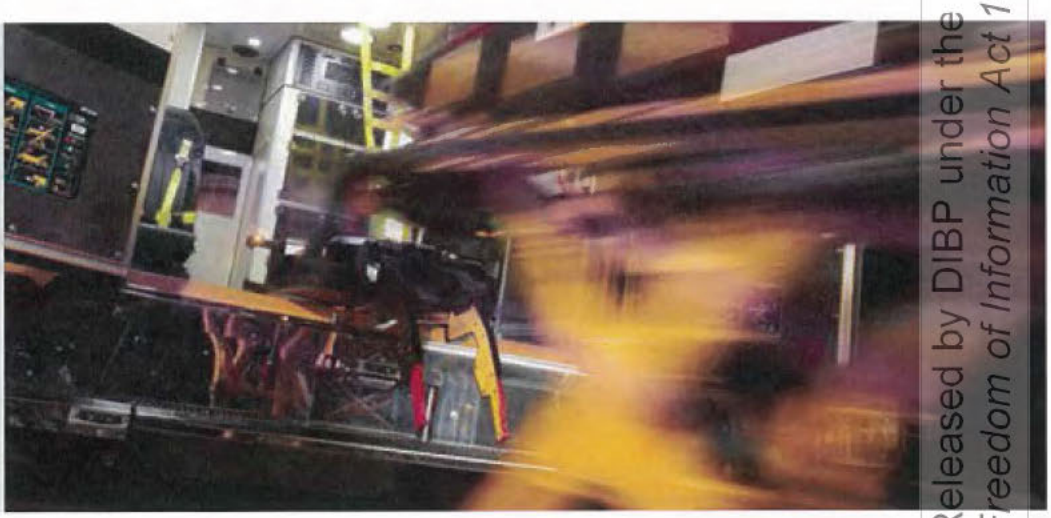
using your finger, not your back

Load and unload patients with the touch of a button.
Operator injuries result from repetitive spinal loading. Our innovative Power-LOAD cot fastener system is designed to load and unload a compatible cot with the touch of a button – not your back.

The Power-LOAD cot fastener system improves operator and patient safety by supporting the cot throughout the loading and unloading process. The reduction in spinal load helps prevent cumulative trauma injuries. Power-LOAD wirelessly communicates with Power-PRO™ cots for ease of operation and maximum operator convenience.

- **Eliminates the need to steer the cot into and out of the ambulance.**
- **Minimizes patient drops by supporting the cot until the wheels are on the ground.**
- **Meets dynamic crash test standards for maximized occupant safety.**
- **Features an easy-to-use manual back-up system, allowing complete operation in the event of power loss.**
- **Lifts or lowers the cot into and out of the ambulance, eliminating spinal loads that can result in cumulative trauma injuries.**

Save yourself from injury. Save your career with Power-LOAD.
Ergonomically designed to reduce operator and patient injuries, Power-LOAD hydraulically lifts patients weighing up to 700 lbs.



Cot Release Handles
Red release handles allow the cot to be disengaged from the Power-LOAD system when unloading.

Duplicate LED Indicator
Displays Power-LOAD status at the head end for added operator convenience.

Manual Trolley Release
Allows trolley to be released when locked at the head end.

Inductive Charging
Power-LOAD automatically charges the cot SMRT battery and Power-LOAD battery when in transport position (no cable or connectors required).

Head-end LED Indicators
Keeps operator informed of position status. Solid green when in position or ready to transport; flashing amber when not in position or not ready to transport.

Trolley
Secures the cot into the Power-LOAD system.

Lifting Arms
Battery-powered hydraulic lift system supports the cot and patient during loading and unloading.

Linear Transfer System
Supports and guides the cot during loading and unloading.

Control Panel
Allows complete operation for manual cots as well as the operation of powered cots in the event of a power loss.

Battery Indicator
If the Power-LOAD system is in transport position, the battery LED will flash green, indicating the battery is being charged. If the battery is low, the caution LED will flash amber.

Foot-end Release
Allows the cot to be disengaged from the patient compartment.

Safety Hook
Assures handling confidence when loading and unloading in the event of power loss.

700lb
capacity

Features

1. **Lifting Arms**
   Battery-powered hydraulic lift system supports the cot and patient during loading and unloading.

2. **Head-end LED Indicators**
   Keeps operator informed of position status. Solid green when in position or ready to transport, flashing amber when not in position or not ready to transport.

3. **Control Panel**
   Allows complete operation for manual cots as well as the operation of powered cots in the event of a power loss.

4. **Cot Release Handles**
   Red release handles allow the cot to be disengaged from the Power-LOAD system when unloading.

5. **Linear Transfer System**
   Supports and guides the cot during loading and unloading.

6. **Inductive Charging**
   Power-LOAD automatically charges the cot SMRT battery and Power-LOAD battery when in transport position (no cable or connectors required).

Inductive Charging
Power-LOAD automatically charges the SMRT battery when in transport position (no cable or connectors required).

Power Controls
The Power-PRO cot controls the Power-LOAD system during loading and unloading for ease of operation and maximum convenience.

Low Electrical Demand
Power-LOAD is self-powered, drawing minimal amperage from the vehicle (during charging process).

Operation Guide
Power-LOAD operation labels are provided and intended to be placed on the inside of the rear doors of the ambulance as a quick reference guide for Power-LOAD operation.

Control Panel
Allows complete operation for manual cots as well as the operation of powered cots in the event of a power loss.

Marine Grade Hydraulic System
Provides reliable operation in harsh conditions.

Warranty

- One-year parts, labor, and travel or two-year parts only
- Lifetime on all welds*

Extended warranties available.
*7-year service life

Certifications:
IPX6 IEC 60601-1
AS/NZS 4535:1999 BS EN 1789:2007

Power-LOAD Cot Compatibilty

The Power-LOAD compatibility option is available for the Power-PRO XT, Power-PRO IT, and Performance-PRO. This system meets dynamic crash test standards for maximized occupant safety[1] and will automatically charge the Power-PRO XT and Power-PRO IT SMRT battery.

Power-PRO XT Ambulance Cot

Power-PRO IT Ambulance Cot

Performance-PRO XT Ambulance Cot

Optional Features

Wheel Guide
Required for applications when the Power-LOAD system is mounted near the wall. Keeps the wheels straight when loading and unloading.

Mass Casualty Floor Mount Assembly
Provides cot compatibility for non-upgraded Stryker X-frame cots. Assembly equipped with quick release mechanism for ease of operation.

Mass Casualty Wall Mount Assembly
Provides cot compatibility for non-upgraded Stryker X-frame cots. Assembly equipped with quick release mechanism for ease of operation.

Power-LOAD Specifications

Model Number	**6390**
Length	
Overall Length	95 in (241 cm)
Minimum Length	89.5 in (228 cm)
Width	24.5 in (62 cm)
Weight	
Total Weight	211.5 lb (96.5 kg)
Floor Plate Assembly	16.5 lb (7.5 kg)
Anchor Assembly	23 lb (10.5 kg)
Transfer Assembly	67 lb (30.5 kg)
Trolley Assembly	105 lb (48 kg)
Maximum Weight Capacity*	700 lb (318 kg)
Minimum Operator Required	
Occupied Cot	2
Unoccupied Cot	1
Recommended Loading Height	22 in to 36 in (56 cm to 91 cm)
Battery	12V, 5 Ah Lead Acid Battery (6390-001-468)

* Maximum weight capacity represents patient weight [illegible] represents the sum of the cot total weight and patient

† Meets dynamic crash standards for Power-PRO [illegible] and BS EN-1789 and Performance-PRO [illegible] BS EN-1789

Stryker reserves the right to change specifications without notice.

Specifications are rounded to the nearest whole number. Conversions are calculated before rounding.

The Power-LOAD [illegible] system is designed to conform to the Federal Specification for the Star-of-Life Ambulance KKK-A-1822

Patents pending

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The information presented in this brochure is intended to demonstrate a Stryker product. Always refer to the package insert, product label and/or user instructions before using any Stryker product. Products may not be available in all markets. Product availability is subject to the regulatory or medical practices that govern individual markets. Please contact your Stryker Account Manager if you have questions about the availability of Stryker products in your area.

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171

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Products

Ambulance Cots

Cot Accessories

Cot Fasteners

- Power-LOAD™ Model 6390
- Performance-LOAD Model 6392
- Floor- or Wall-Mounts
- Center Mount Straight Guide and Center Mount DIN Guides
- Floor- or Track-Mounts
- Cot Fasteners

Evacuation Equipment

Stair Chairs

Power-LOAD™

Model Number: 6390

Cot Fasteners

The Power-LOAD™ cot fastener system lifts and lowers the cot into and out of the ambulance, reducing spinal loads and the risk of cumulative trauma injuries.

Get More Information

Literature

- Power-LOAD Brochure
- Power-LOAD Spec Sheet
- Power-LOAD Training Checklist
- White Paper Evaluation of Medical Cot Design

Case Studies

Related Products

Overview | Accessories | Interactive Demos | Videos

The Power-LOAD™ cot fastener system improves operator and patient safety by supporting the cot throughout the loading and unloading process. The reduction in spinal load helps prevent cumulative trauma injuries.

Occupant Safety

Meets dynamic crash test standards for maximized occupant safety. Also minimizes patient drops by supporting the cot until the wheels are on the ground.

Wireless Communication

The Power-LOAD™ cot fastener system wirelessly communicates with Power-PRO™ cots for ease of operation and maximum operator convenience.

Hydraulic Lift

Ergonomically designed to reduce operator and patient injuries, Power-LOAD™ hydraulically lifts patients weighing up to 700 lbs with the touch of a button.

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Zip Code

Select a Country/Region

Australia

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Stryker EMS

3800 East Centre Avenue
Portage, MI 49002 USA
1.800.327.0770

CROMWELL EMERGENCY VEHICLES INC.
IS YOUR STRYKER MEDICAL DISTRIBUTOR AND INSTALLER FOR THE NEW

Power-LOAD Model 6390

Installed right in your station

The Power-LOAD™ cot fastener system lifts and lowers the cot into and out of the ambulance, reducing spinal loads and the risk of cumulative trauma injuries. The Power-LOAD™ cot fastener system improves operator and patient safety by supporting the cot throughout the loading and unloading process. The reduction in spinal load helps prevent cumulative trauma injuries. The Power-LOAD™ cot fastener system wirelessly communicates with Power-PRO™ cots for ease of operation and maximum operator convenience.
Save yourself from injury, save your career with the Power-LOAD™ cot fastener system.
Ergonomically designed to reduce operator and patient injuries, Power-LOAD™ hydraulically lifts patients weighing up to 700 lbs with the touch of a button

Power-Load 6390	**$24,669.00**
Compatibility Kit (1)	**$ 3,029.00**
Comp Kit Install (2)	**$ 300.00**
Install in your Amb. (3)	**$ 1,800.00**
TOTAL Cost	**$29,798.00**

(1) Compatibility Kit : If you presently own a Stryker Power Load cot, you need this kit to use with the 6390 Power Load .
(2) Compatibility Kit Install : Stryker requires a Stryker factory tech to install this. We will charge you for it but you will need to make an apt with your local Stryker service rep.
(3) Install in your ambulance : Our Clifton Park , NY facility will have your vehicle for a 2.5 to 3 day period of time .

Save $2,825.00

Book your purchase & install today for only

$26,975.00

call for details

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CROMWELL EMERGENCY VEHICLES

Osage Ambulances

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(64)

Power-LOAD™
Cot Fastener System

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EMS Equipment

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Portage, MI 49002 U.S.A.
t: 269 329 2100 f: 866 795 2233
toll free: 800 327 0770

www.ems.stryker.com

Standard Features

- Lifting arms
- Head-end LED indicators
- Control panel
- Cot release handles
- Linear transfer system
- Inductive charging
- Operation guide

Optional Features

- Wheel guide
- Mass casualty floor mount assembly
- Mass casualty wall mount assembly

Specifications

Model Number	**6390**
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Maximum Weight Capacity[1]	700 lb (318 kg)
Minimum Operator Required	
Occupied Cot	2
Unoccupied Cot	1
Recommended Loading Height	22 in to 36 in (56 cm to 91 cm)
Battery	12V, 5 Ah Lead Acid Battery (6390-001-468)

Warranty

- One-year parts, labor, and travel or two-year parts only
- Lifetime on all welds*

Extended warranties available.
**7-year service life.*

[1]Maximum weight capacity represents patient weight. Safe working load of 870 lb (395 kg) represents the sum of the cot total weight and patient.

Stryker reserves the right to change specifications without notice.

The Power-LOAD cot fastener system is designed to conform to the Federal Specification for the Star-of-Life Ambulance KKK-A-1822.

Specifications are rounded to the nearest whole number. Conversions are calculated before rounding.

The yellow and black color scheme is a proprietary trademark of the Stryker Corporation.

Patents pending.

Certifications:
c US IPX6 AS/NZS 4535:1999 IEC 60601-1 BS EN 1789:2007

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59

Power-LOAD™
Cot Fastener System
REF Model 6390

stryker®

Operations/Maintenance Manual

For parts or technical assistance:
USA: 1-800-327-0770

CE

2012/04 E.1 6390-009-001 REV E www.stryker.com

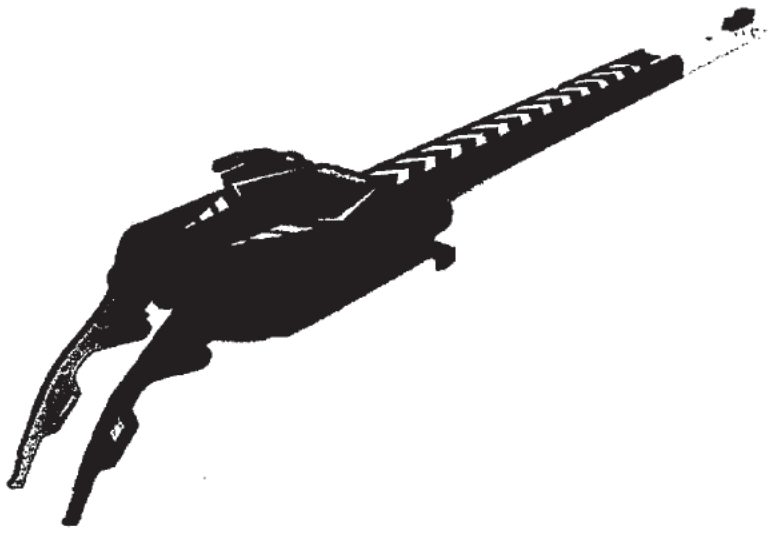
58

Power-LOAD™ Cot Fastener System

REF Model 6390

stryker

Operations/Maintenance Manual



For parts or technical assistance:
USA: 1-800-327-0770

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Table of Contents

Table of Contents

Table of Contents

Return To Table of Contents

Introduction

This manual is designed to provide instructions for the operation and maintenance of the Stryker 6390 **Power-LOAD™**. Read it thoroughly before installing or using the equipment or beginning any maintenance on it.

PRODUCT DESCRIPTION

The Stryker 6390 Power-LOAD is designed to assist the user in loading the cot into a vehicle, unloading the cot from the vehicle, and to restrict the movement of the cot as it is being transported in the vehicle patient compartment under normal conditions. Usage of this product in any other way becomes the complete responsibility of the owner/user. Caution must be used at all times during placement of the cot into the vehicle patient compartment.

INTENDED USE OF PRODUCT

The Stryker 6390 Power-LOAD cot fastening system is intended to assist with loading and unloading of a compatible wheeled stretcher (ambulance cot) to and from a transport vehicle and to secure the ambulance cot during transport. The device has a maximum safe working load of 870 lb, which includes the weight of the ambulance cot, patient, and equipment attached to the cot (i.e. oxygen bottles, monitors, and/or pumps). The intended users of the device will be trained professionals, including emergency medical service and medical care center personnel, as well as medical first responders, service technicians and installers. The expected service life of the product is 7 years.

PRODUCT ILLUSTRATION

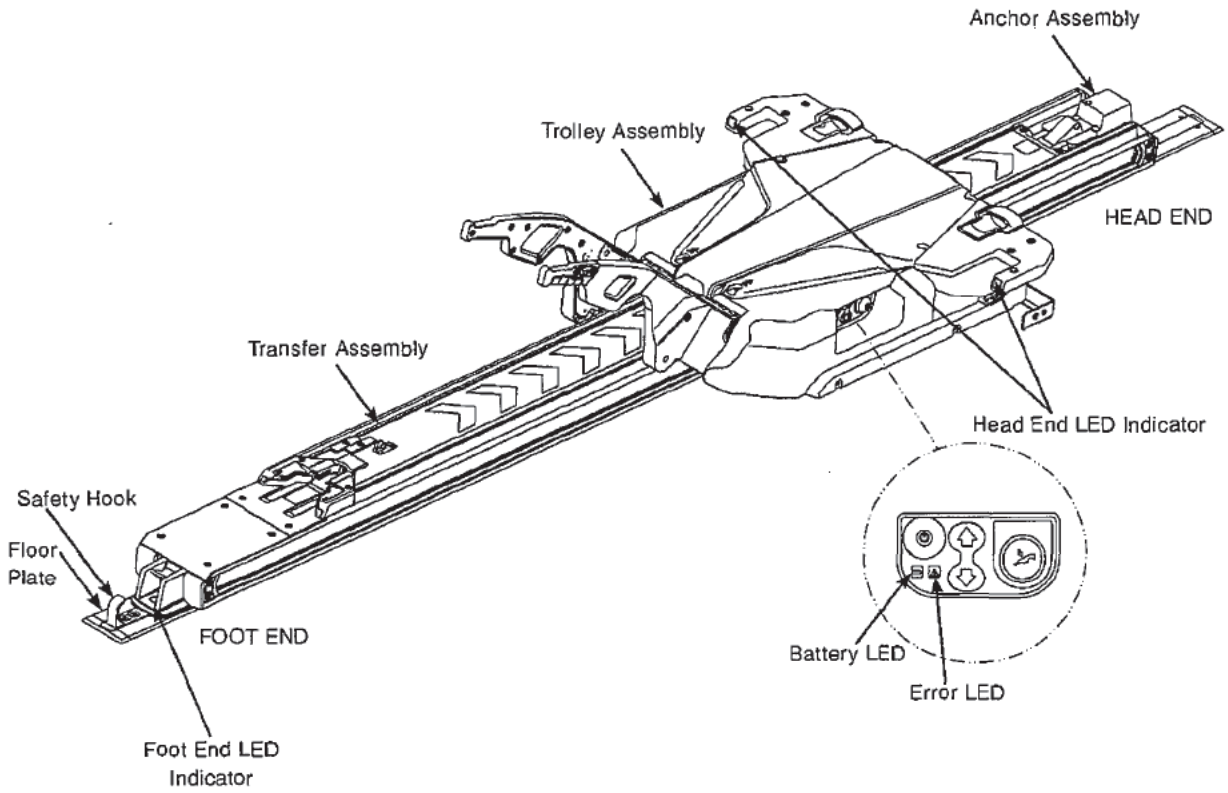


Figure 1: Product Illustration

Cot Compatibility Information

The Stryker Model 6390 Power-LOAD system is designed to be fully compatible with cots with the Power-LOAD compatible option only. Cots which currently meet these specifications are:

- Model 6085 **Performance-PRO™** XT with the Power-LOAD compatibility kit (6085-700-010)
- Model 6086 **Performance-PRO™** XT with the Power-LOAD option or compatibility kit (6086-700-001)
- Model 6500 **Power-PRO™** XT with the Power-LOAD compatibility kit (6500-700-049)
- Model 6506 **Power-PRO™** XT with the Power-LOAD option or compatibility kit (6506-700-001)
- Model 6510 **Power-PRO™** IT with the Power-LOAD compatibility kit (6510-700-001)
- Model 6516 **Power-PRO™** IT with the Power-LOAD option or compatibility kit (6516-700-001)

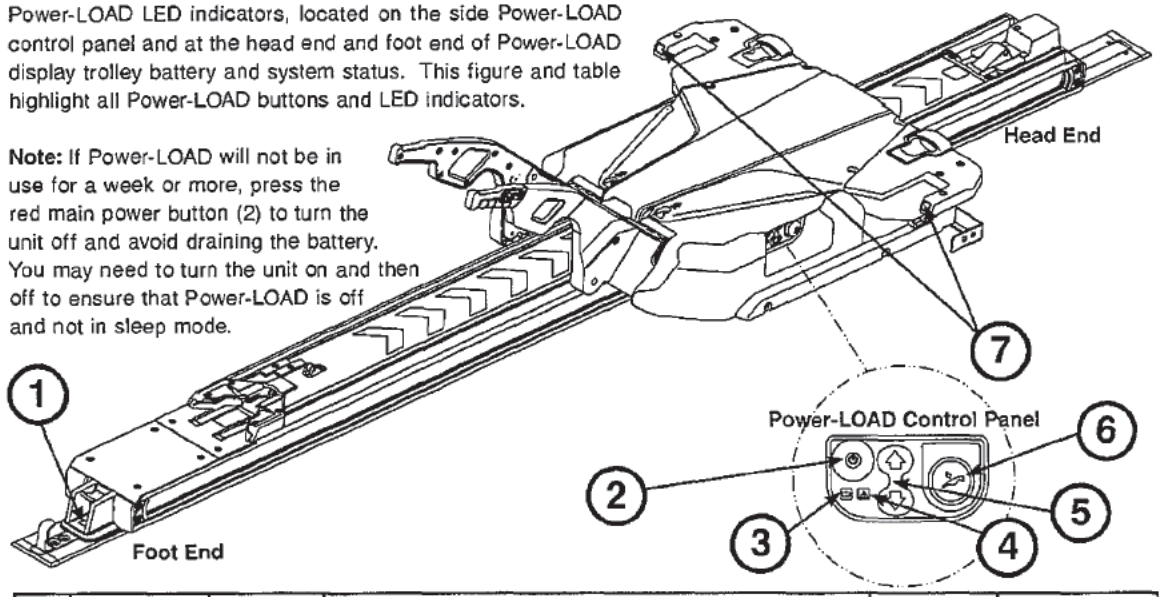
⚠ WARNING

- Power-LOAD is designed to be compatible with the Performance-PRO XT, Power-PRO XT, and Power-PRO IT cots with the Power-LOAD option only. In certain situations, you can use Power-LOAD as a standard antler for most X-frame cots, but a rail clamp assembly is required for all cots without the Power-LOAD option.
- It is the responsibility of the cot operator to ensure that the cot being used in the Stryker Model 6390 Power-LOAD system is a Power-LOAD compatible cot. Injury may result if a non-compatible cot is used in the Stryker Model 6390 Power-LOAD system.
- To meet BS EN 1789 and AS/NZS-4535 crash-test standards with the use of a crash-rated fastener, such as Power-LOAD (Model 6390), you must install the EMS restraint package (6500-002-030) and knee gatch bolster mattress (6500-002-150) on your Power-LOAD compatible cot. Call Stryker Customer Service USA at 1-800-327-0770 for availability and pricing. Power-LOAD does not meet crash-test standards for use with the Power-LOAD compatible model 6510 or 6516 Power-PRO IT cot.

User Controls and LED Indicators

Power-LOAD LED indicators, located on the side Power-LOAD control panel and at the head end and foot end of Power-LOAD display trolley battery and system status. This figure and table highlight all Power-LOAD buttons and LED indicators.

Note: If Power-LOAD will not be in use for a week or more, press the red main power button (2) to turn the unit off and avoid draining the battery. You may need to turn the unit on and then off to ensure that Power-LOAD is off and not in sleep mode.



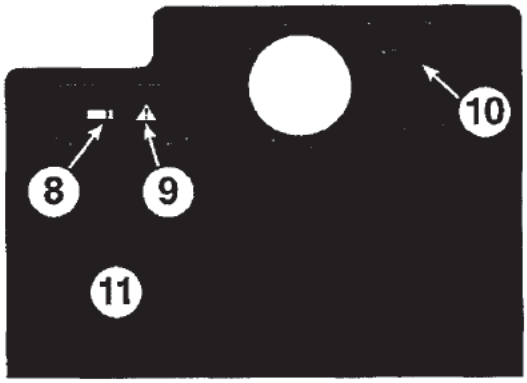
Ref	Icon/Button	Name	Description	Type	Location
1		Foot End LED Indicator	If LED is solid green, the cot foot end is in position or ready to transport. If LED is flashing amber, the cot foot end is not in position or not ready to transport.	LED	Trolley
2		Main Power	Press to power the unit on or off. **Note:** The battery power LED also illuminates to indicate that the Power-LOAD system is on. If the trolley battery is low, a flashing amber LED may appear.	Button	Power-LOAD Control Panel
3		Battery Power	If LED is solid green, the Power-LOAD system is on and not charging. If LED is flashing green, the battery is charging. **Note:** The battery will only charge when the trolley is locked at the head end of the vehicle patient compartment.	LED	Power-LOAD Control Panel
4		Error	If LED is solid amber, there is a Power-LOAD error. Press the main power button twice to reset the unit. If the LED remains solid amber, contact technical support. If LED is flashing amber, the trolley battery power is low.	LED	Power-LOAD Control Panel
5		Up/Down	Press up (↑) to raise the lifting arms to the highest position. **Note:** The cot legs do not retract. Press down (↓) to lower the lifting arms and cot. **Note:** Extend the cot base before pressing.	Button	Power-LOAD Control Panel
6		Manual Release	Press to unload the cot in the event of a Power-LOAD power failure. Continue holding the button until the lifting arms are clear of the cot. **Note:** Extend the cot base before pressing.	Button	Power-LOAD Control Panel
7		Head End LED Indicator	If LEDs are solid green, the cot head end is in position. If LEDs are flashing amber, the cot head end is not in position.	LED	Trolley

Return To Table of Contents

User Controls and LED Indicators

These Power-LOAD LED indicators are located at the head end of the Power-LOAD trolley.

The oil reservoir location is shown for your reference.



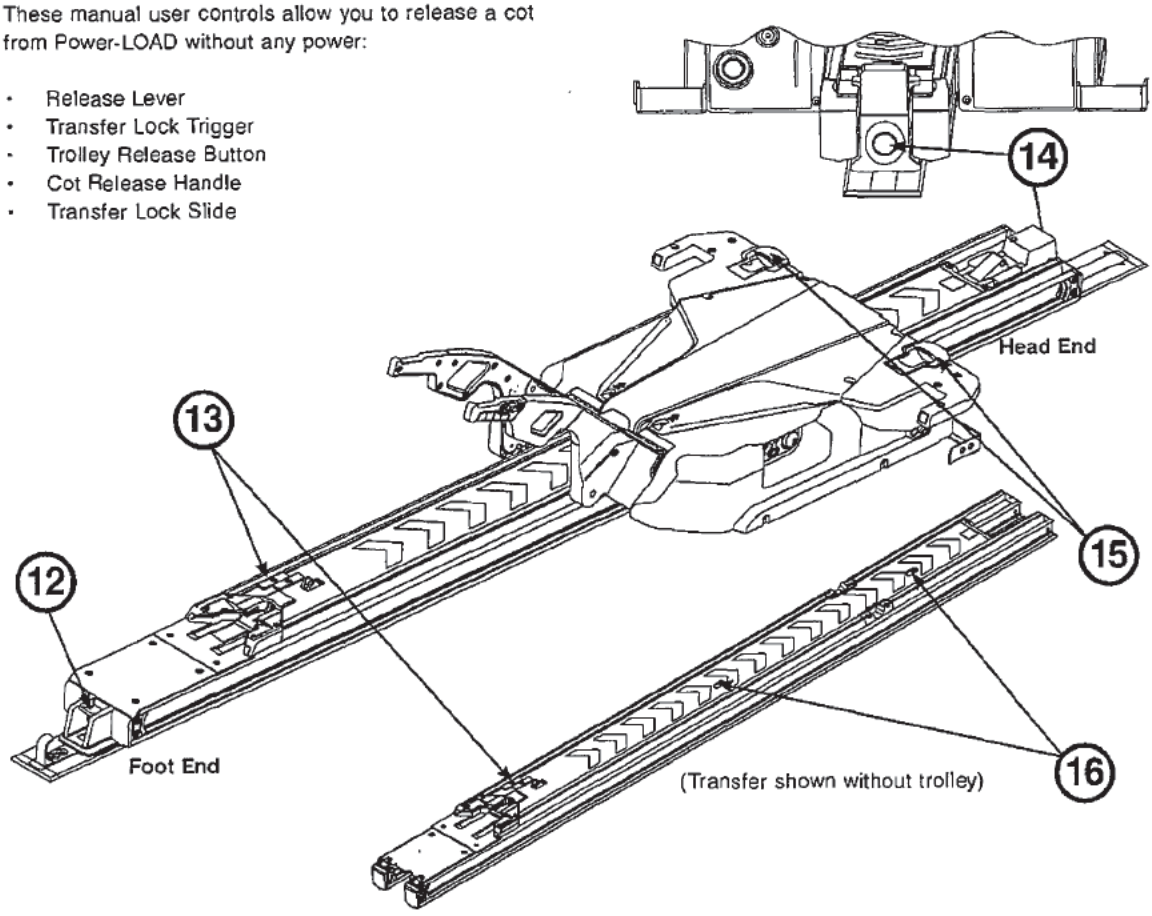
Trolley Head End Label

Ref	Icon/Button	Name	Description	Type	Location
8		Battery Power	If LED is solid green, the Power-LOAD system is on and not charging. If LED is flashing green, the battery is charging. **Note:** The battery will only charge when the trolley is locked at the head end of the patient compartment.	LED	Trolley Head End
9		Error	If LED is solid amber, there is a Power-LOAD error. Press the red main power button twice to reset the unit. If the LED remains solid amber, contact technical support. IF LED is flashing amber, the trolley battery power is low.	LED	Trolley Head End
10		Oil Reservoir	Add Mobil Mercon® V Blend ATF Oil (6500-001-293) here until full. To avoid the risk of a unit malfunction or leak, do not overfill the reservoir with oil. See "Filling the Reservoir" on page 100.	Not Applicable	Trolley Head End
11	Not Applicable	USB Port	Remove plate to access the USB port for input/output diagnostics. Service only by qualified personnel.	Not Applicable	Trolley Head End

Manual User Controls

These manual user controls allow you to release a cot from Power-LOAD without any power:

- Release Lever
- Transfer Lock Trigger
- Trolley Release Button
- Cot Release Handle
- Transfer Lock Slide



Ref	Manual Control	Name	Description	Location
12		Release Lever	Press and hold to disengage the cot from the patient compartment.	Foot End
13		Transfer Lock Trigger	Slide to disengage the transfer from a locked position.	Transfer
14		Trolley Release Button	Press while raising the lifting arms to release and extend Power-LOAD from the vehicle patient compartment without a cot. Then, pull the trolley out of the vehicle patient compartment.	Head End
15		Cot Release Handle	Lift to unlock the cot from Power-LOAD when the cot base is fully extended.	Trolley
16		Transfer Lock Slide	Slide to disengage the transfer from a locked position.	Transfer

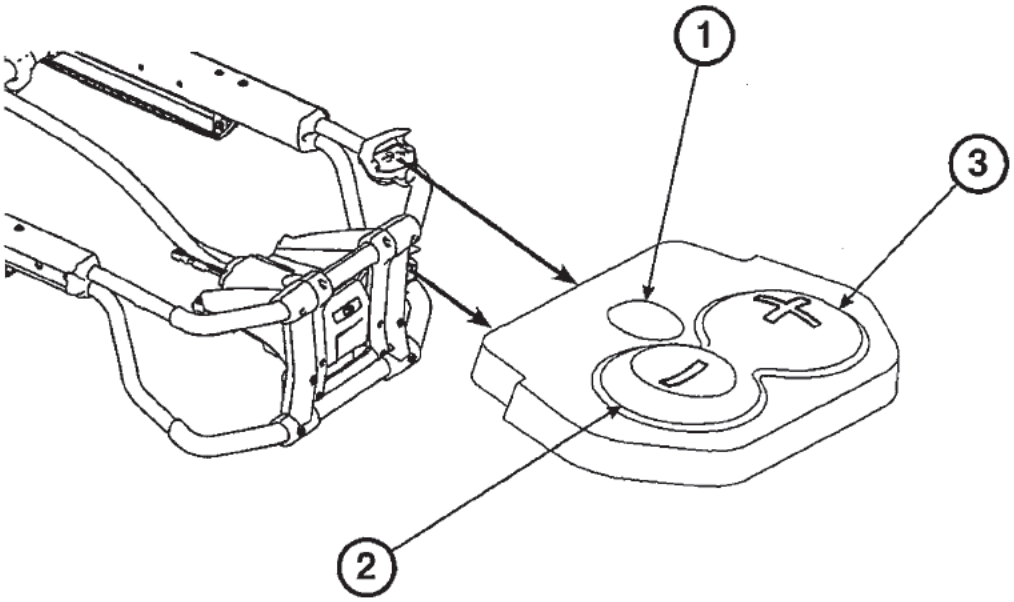
Return To Table of Contents

Power-PRO Cot User Controls

USING THE COT CONTROL SWITCHES

There are two identical cot control switches located on the Power-PRO cots (models 6500/6506 and 6510/6516). Press the buttons on either of these switches to extend the cot, retract the cot, or release the cot from Power-LOAD.

This figure and table highlight the three buttons located on the cot control switch.



Ref	Name	Description
1	Release	Press to unlock the cot from Power-LOAD.
2	Retract (-)	Press and hold to fully retract the cot undercarriage until the cot is supported.
3	Extend (+)	Press and hold to fully extend the cot undercarriage until the cot wheels are on the ground.

Power-PRO Cot User Controls

CHECKING THE COT BATTERY POWER LEVEL

Power-LOAD automatically charges the Power-PRO **SMRT™** Pak battery when the cot is locked into Power-LOAD in the transport position (no cable or connectors required). The cot battery LED indicator momentarily flashes green to signify that it is charging.

To check the battery power level, press the retract (–) button (2) on the cot control switch to activate the cot battery LED indicator (A) as shown in Figure 32.

The cot battery LED indicator is located at the Power-PRO foot end control enclosure (shown as a battery symbol).

- The LED is solid green when the battery is fully charged or has adequately charged battery power.
- The LED flashes amber when the battery needs to be recharged or replaced.
- The LED is solid amber to indicate a battery error.

See the SMRT Power System Operations/Maintenance manual for additional SMRT Pak and SMRT Charger information.

See the Power-PRO Operations/Maintenance manual for additional cot battery information.

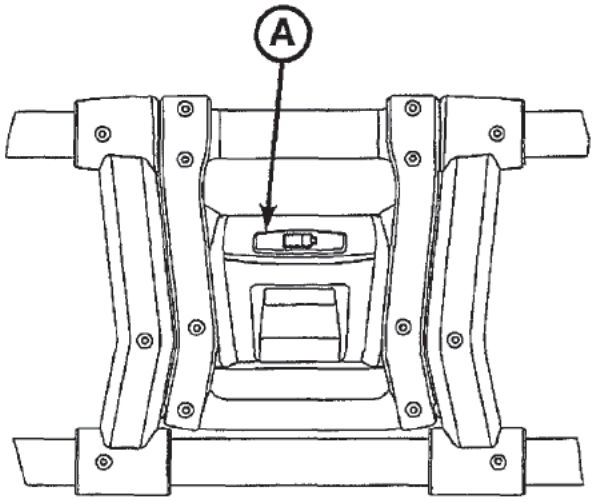


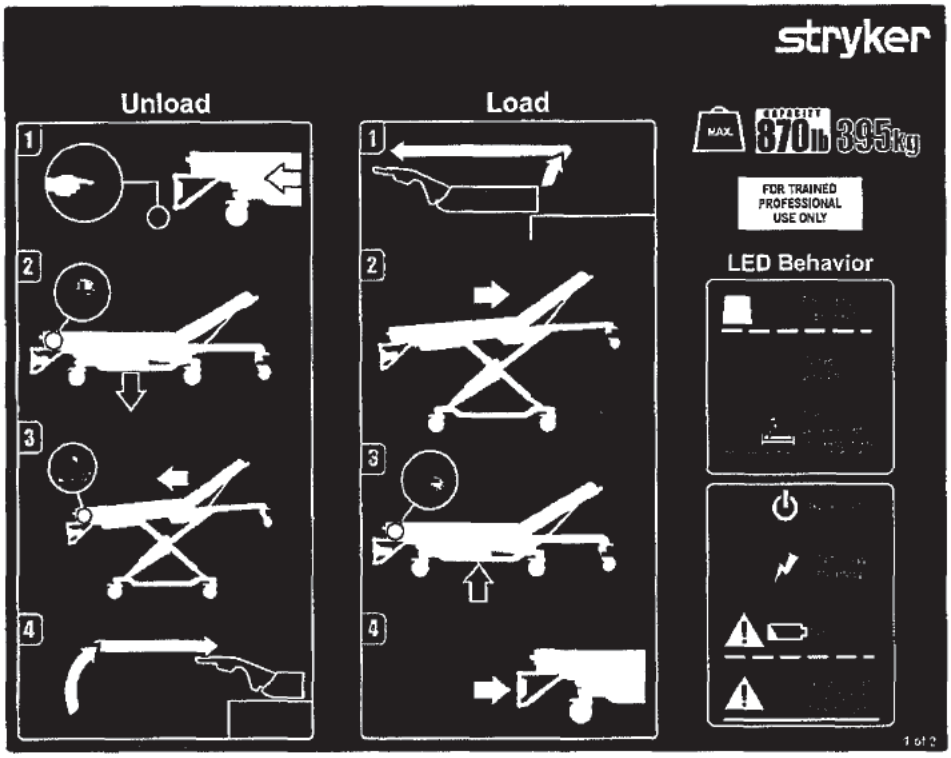
Figure 32: Battery Power LED Indicator

Notes:

- Automatic charging will only occur with SMRT Pak batteries.
- Only use Stryker-approved batteries with Power-PRO.

Powered Operations Instructions

Locate this Powered Operation instruction label on the inside door panel or wall of the vehicle patient compartment where visible to users. See "User Controls and LED Indicators" on page 44 for button and LED locations.



To unload Power-LOAD:

1. Press and hold the release lever at the foot end of the Power-LOAD system and pull to remove the cot from the vehicle patient compartment.
2. Press and hold the extend (+) button on the cot control switch to extend the cot until the cot wheels rest on the ground.
3. Press the release button on the cot control switch to unlock the cot from Power-LOAD.
4. Raise the lifting arms and guide the trolley into the vehicle patient compartment until the arms are far enough in to not interfere with the vehicle doors.
5. For additional unloading instructions, see "Unloading a Power-PRO Cot from a Vehicle (Model 6500/6506 & 6510/6516 with the Power-LOAD Option)" on page 60.

To load Power-LOAD:

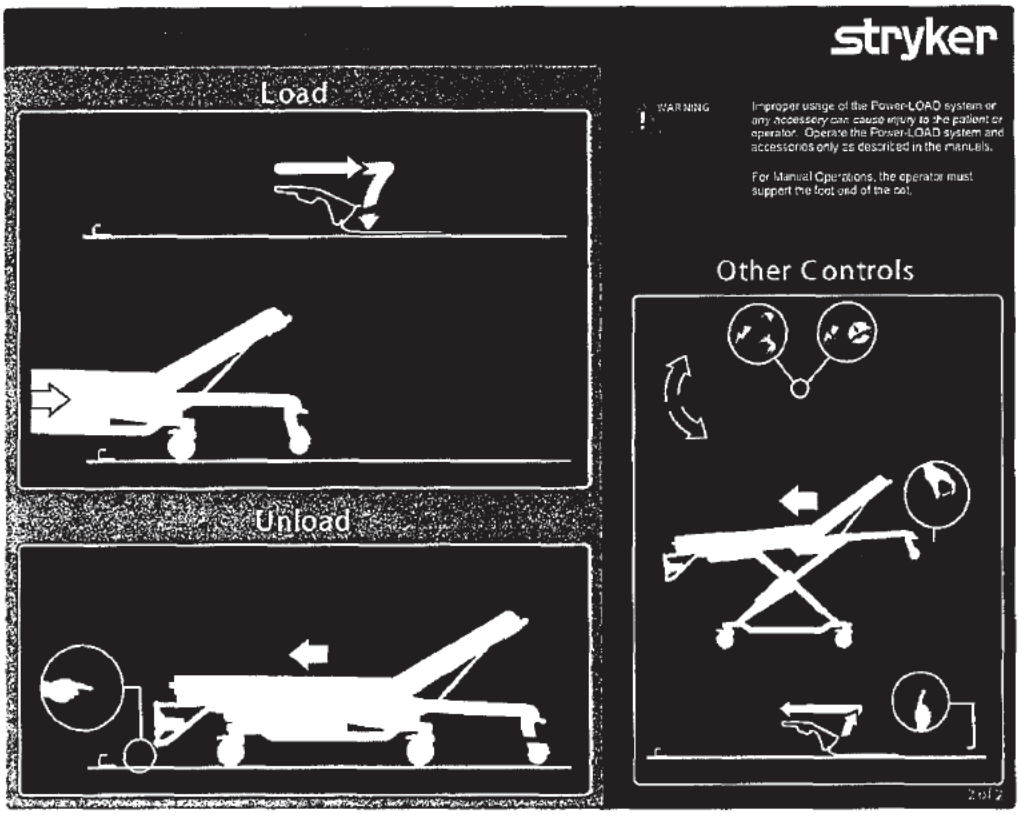
1. Raise the lifting arms to guide and pull the trolley out of the vehicle patient compartment.
2. Push the cot into Power-LOAD until the cot load wheel pins lock into position. Ensure that the cot is aligned with the lifting arms when loading.
3. Press and hold the retract (–) button on the cot control switch to fully retract the cot undercarriage until the cot is supported.
4. Push the cot into the vehicle patient compartment until the lifting arms lower and the cot locks into Power-LOAD.
5. Check the foot end LED indicator to ensure that the cot is ready to transport.
   - If the LED is solid green, then the cot foot end is in position or ready to transport.
   - If the LED is flashing amber, then the cot foot end is not in position or not ready to transport.
6. Ensure that the cot is locked into Power-LOAD by firmly pulling side to side on the foot end of the cot.
7. For additional unloading instructions, see "Loading a Power-PRO Cot into a Vehicle (Model 6500/6506 & 6510/6516 with the Power-LOAD Option)" on page 58.

Note: If Power-LOAD will not be in use for a week or more, press the main power button to turn the unit off and avoid draining the battery. You may need to turn the unit on and then off to ensure that Power-LOAD is off and not in sleep mode.

Return To Table of Contents

Manual Operations Instructions

Locate this Manual Operation instruction label on the inside door panel or wall of the vehicle patient compartment where visible to users. See "User Controls and LED Indicators" on page 44 for button and LED locations.



To load Power-LOAD:

1. Ensure that Power-LOAD is located at the head end of the vehicle patient compartment with the lifting arms down.
2. Push the cot into the vehicle patient compartment until the cot locks into Power-LOAD.
3. Ensure that the cot is locked into Power-LOAD by firmly pulling side to side on the foot end of the cot.
4. For additional loading instructions, see "Loading a Cot into a Vehicle Manually (Power-LOAD Power Loss or System Error)" on page 64.

To unload Power-LOAD:

Press and hold the release lever at the foot end of the Power-LOAD system and pull to remove the cot from the vehicle patient compartment. For additional unloading instructions, "Unloading a Cot from a Vehicle Manually" on page 65.

Notes:

- Without power, the lifting arms will not raise the cot. Operators must be ready to accept the entire weight of the cot.
- If Power-LOAD will not be in use for a week or more, press the main power button to turn the unit off and avoid draining the battery. You may need to turn the unit on and then off to ensure that Power-LOAD is off and not in sleep mode.

⚠ WARNING

- Improper usage of the Power-LOAD system or any accessory can cause injury to the patient or operator. Operate the Power-LOAD system and accessories only as described in the manuals.
- For manual operations, the operator must support the weight at the foot end of the cot.

Return To Table of Contents

OPERATING GUIDELINES

- Check Power-LOAD for proper functionality before starting each shift (the lifting arms should slightly raise the cot as the cot is unlocked, check the battery power level, etc.). If the unit does not seem to be operating properly, remove the vehicle from service to diagnose and repair Power-LOAD.
- Do not operate Power-LOAD with weights greater than 700 lb (318 kg), which includes patient weight and accessories. The safe working load of Power-LOAD is 870 lb (395 kg), which includes the weight of the cot.
- Do not turn off the main power button during normal use as it will prevent battery charging.
- Do not drive the vehicle with the trolley in the mid position. This position does not lock and is not intended for driving.
- Power-LOAD is only an assisting device. Operators are responsible for evaluating each situation to determine how to distribute and lift the weight being transported. Always use both hands when handling the cot.
- When handling weights over 400 lb (181 kg), ensure there are enough operators to handle the forces required for loading or unloading. To increase safety, users should attempt to perform loading or unloading on flat surfaces. For 36 in (91 cm) vehicle deck heights, you may need to use the manual release button on the Power-LOAD control panel or the manual cot release handles at the head end of Power-LOAD to manually unload. Keep hands and extremities clear of the Power-LOAD trolley lifting arms and the cot base during powered loading and unloading.
- Use caution when operating Power-LOAD in adverse weather conditions (for example, rain, ice, snow) to avoid operator and/or patient injury.
- Operate Power-LOAD with the vehicle on a flat surface, if possible.
- If you are unable to unload an occupied cot from the vehicle patient compartment, use a backboard to unload the patient.
- Stryker recommends periodic training (at least once per year) on manual backup procedures. See "Unloading a Cot From a Vehicle Manually after loading with Power-LOAD (Power-LOAD Power Loss or System Error)" on page 62, "Loading a Cot into a Vehicle Manually (Power-LOAD Power Loss or System Error)" on page 64, "Unloading a Cot from a Vehicle Manually" on page 65 "Unloading a Cot from a Vehicle Manually" on page 65, "Loading a Cot into a Vehicle Manually (Power-PRO Power Loss)" on page 67. See www.stryker.com or contact your Stryker sales representative for an additional training checklist example (Mkt Lit-676).

⚠ WARNING

- Improper usage of the Power-LOAD system or any accessory can cause injury to the patient or operator. Operate the Power-LOAD system and accessories only as described in the manuals.
- Failure to ensure proper Power-LOAD functionality prior to use may result in patient and/or operator injury.
- Use caution while moving around in the vehicle patient compartment to avoid tripping on Power-LOAD.
- To avoid the risk of operator and/or patient injury, use caution when operating Power-LOAD in adverse weather conditions (for example, rain, ice, snow).
- Entanglement in powered cot and/or Power-LOAD mechanisms can cause serious injury. Operate the cot and/or Power-LOAD only when all persons are clear of the mechanisms.
- Practice loading and unloading the cot with Power-LOAD until operation of the product is fully understood. Improper use can cause injury.
- Do not allow untrained personnel to assist in the operation of Power-LOAD. Untrained technicians/personnel can cause injury to the patient or themselves.
- To reduce the risk of patient injury and/or equipment damage, do not drive the vehicle with the trolley in the mid position. This position does not lock and is not intended for driving.
- Power-LOAD is only an assisting device. Operators are responsible for evaluating each situation to determine how to distribute and lift the weight being transported. Always use both hands when handling the cot.
- When handling weights over 400 lb (181 kg), ensure there are enough operators to handle the forces required for loading or unloading. To increase safety, users should attempt to perform loading or unloading on flat surfaces. For 36 in (91 cm) vehicle deck heights, you may need to use the manual release button on the Power-LOAD control panel or the manual cot release handles at the head end of Power-LOAD to manually unload.
- Keep hands and extremities clear of the Power-LOAD trolley lifting arms and the cot base during powered loading and unloading.

Return To Table of Contents

LOADING A PERFORMANCE-PRO COT INTO A VEHICLE (MODEL 6085/6086 WITH THE POWER-LOAD OPTION)

⚠ WARNING

- Loading and/or unloading an occupied cot into a vehicle requires a minimum of two (2) trained operators.
- Make sure that all occupants enter the vehicle patient compartment after the Power-LOAD compatible cot has been loaded into the vehicle patient compartment.

1. Lift the vehicle bumper to the raised position (if equipped).
2. Raise the lifting arms to guide and pull the trolley out of the vehicle patient compartment as shown in Figure 35.
3. Raise the cot to the load position.
4. Push the cot into Power-LOAD until the cot load wheel pins lock into position as shown in Figure 36. Ensure that the cot is aligned with the lifting arms when loading.

⚠ CAUTION

To avoid the risk of equipment damage, do not slam the cot into the trolley when loading.

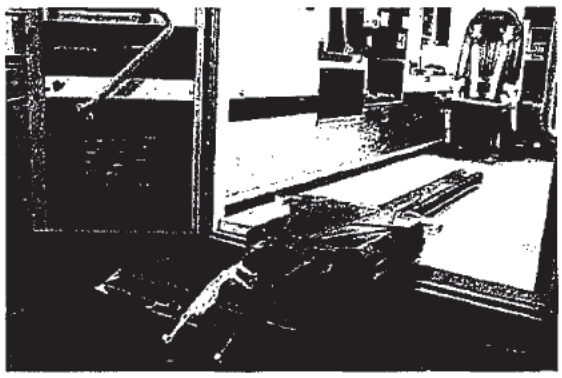


Figure 35

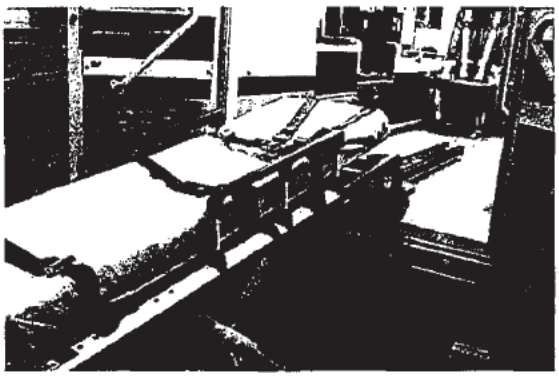


Figure 36

5. Check the head end LED indicators to ensure that the cot is ready to load.
   - If the LEDs are solid green, then the cot head end is in position.
   - If the LEDs are flashing amber, then the cot head end is not in position.

LOADING A PERFORMANCE-PRO COT INTO A VEHICLE (MODEL 6085/6086 WITH THE POWER-LOAD OPTION) (CONTINUED)

6. Press the up (↑) button on the Power-LOAD control panel to raise the lifting arms to the highest position as shown in Figure 37.

   Note: The cot legs do not retract.

7. Operator 1 (Foot End) – Grasp the cot frame at the foot end. Squeeze and hold the cot manual release.
8. Operator 2 (Side) – Stabilize the cot by placing one hand on the outer rail. Grasp the base frame as shown in Figure 38. After the foot end operator has lifted the cot and squeezed the cot manual release, retract the undercarriage with one hand and hold it in place.

Figure 37

Figure 38

9. Operator 1 (Foot End) - Release the cot manual release to lock the undercarriage in the retracted position. Ensure that the cot manual release is released. If it is not released, the cot base will extend preventing the cot from locking in the fastener.

⚠ **CAUTION**

To avoid the risk of equipment damage, do not push the cot into the vehicle patient compartment until the cot base is fully retracted.

10. Push the cot into the vehicle patient compartment until the lifting arms lower and the cot locks into Power-LOAD.
11. Check the foot end LED indicator to ensure that the cot is ready to transport.
    - If the LED is solid green, then the cot foot end is in position or ready to transport.
    - If the LED is flashing amber, then the cot foot end is not in position or not ready to transport.
12. Ensure that the cot is locked into Power-LOAD by firmly pulling side to side on the foot end of the cot.

Return To Table of Contents

Operation Guide

UNLOADING A PERFORMANCE-PRO COT FROM A VEHICLE (MODEL 6085/6086 WITH THE POWER-LOAD OPTION)

⚠ WARNING

Loading and/or unloading an occupied cot into a vehicle requires a minimum of two (2) trained operators.

1. Lift the vehicle bumper to the raised position (if equipped).
2. Press and hold the release lever at the foot end of the Power-LOAD system and pull to remove the cot from the vehicle patient compartment.

⚠ WARNING

As the cot is unlocked for removal from the vehicle patient compartment, the Power-LOAD lifting arms will slightly raise the cot. If the lifting arms do not raise the cot, then the operators must be ready to accept the entire weight of the cot and patient to avoid injury.

3. Grasp the cot frame at the foot end to pull the cot out of the vehicle patient compartment.

   Note: The head end LED indicators turn solid green only when the cot is ready to unload.

4. Operator 1 (Foot End) – Grasp the cot frame as shown in Figure 39. Squeeze and hold the cot manual release.
5. Operator 2 (Side) – Grasp the base frame where indicated in Figure 39, lift slightly, and lower the base frame to its fully extended position. Verify that the cot wheels are on the ground.

⚠ WARNING

When unloading the cot, ensure that the cot base is extended before pressing any buttons on the Power-LOAD control panel.

6. Operator 1 (Foot End) – Release the cot manual release to lock the undercarriage into the extended position.

Figure 39

UNLOADING A PERFORMANCE-PRO COT FROM A VEHICLE (MODEL 6085/6086 WITH THE POWER-LOAD OPTION) (CONTINUED)

7. Press the down (↓) button on the Power-LOAD control panel to lower the lifting arms and cot as shown in Figure 40.
8. Lift one of the two manual cot release handles at the head end of the trolley to unlock the cot as shown in Figure 41.

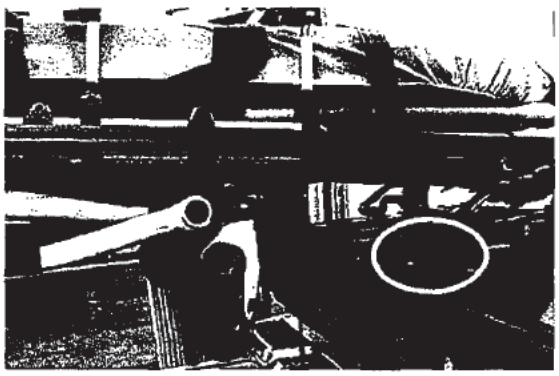


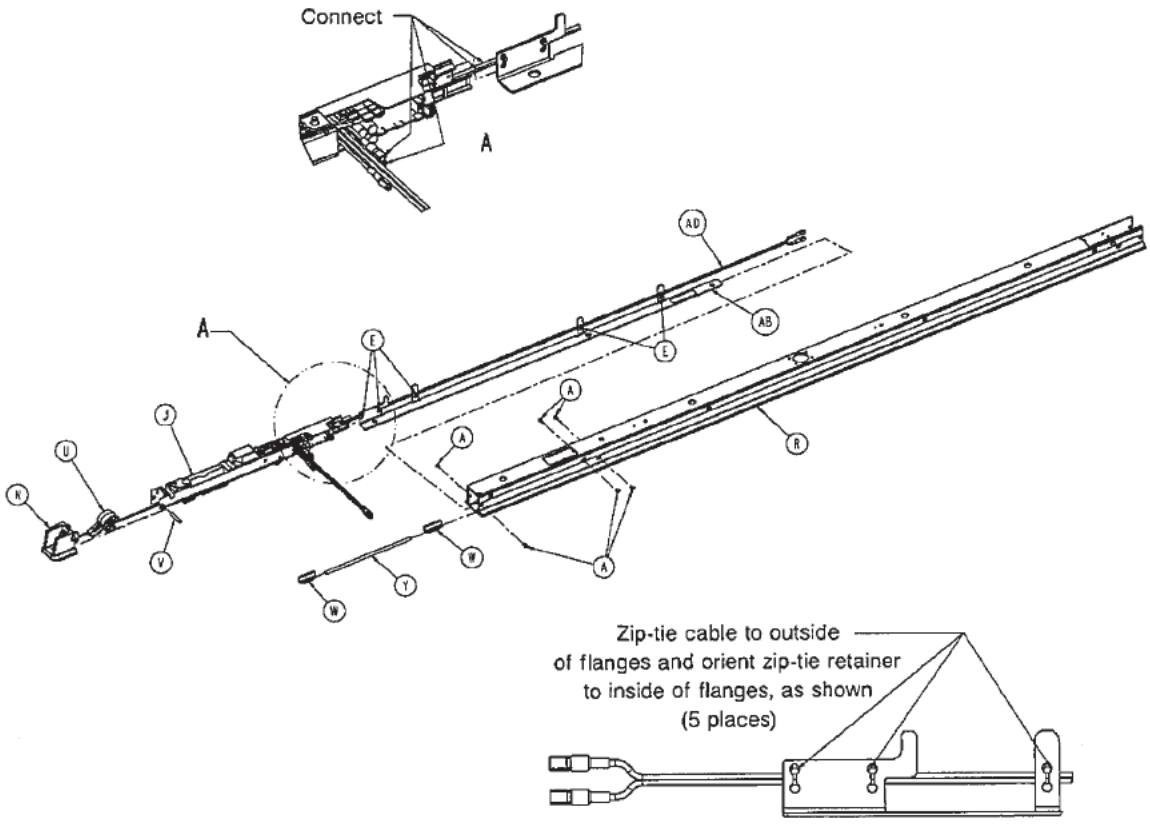
Figure 40

Figure 41

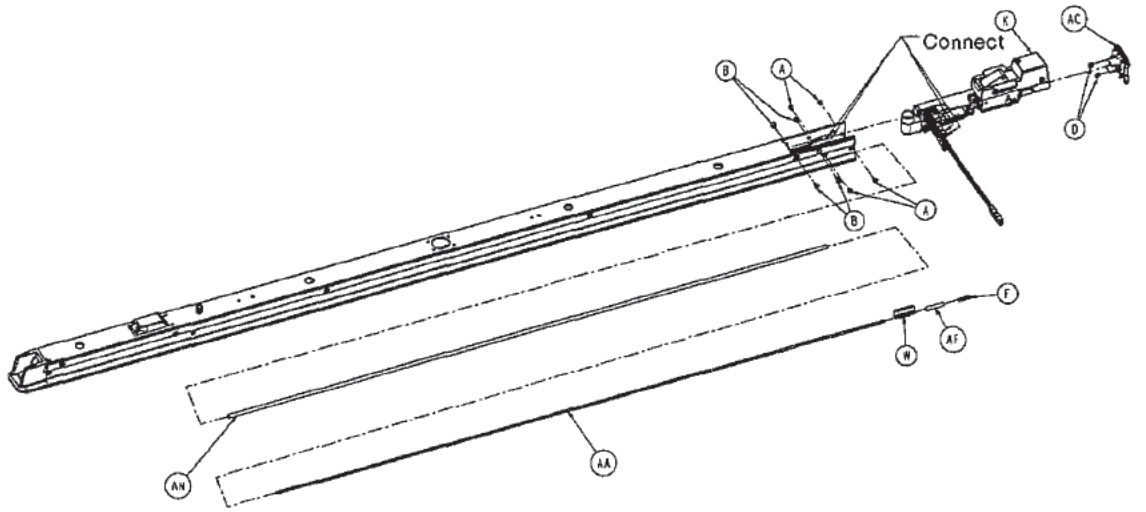
9. Raise the lifting arms and guide the trolley into the vehicle patient compartment until the arms are far enough in to not interfere with the vehicle doors.

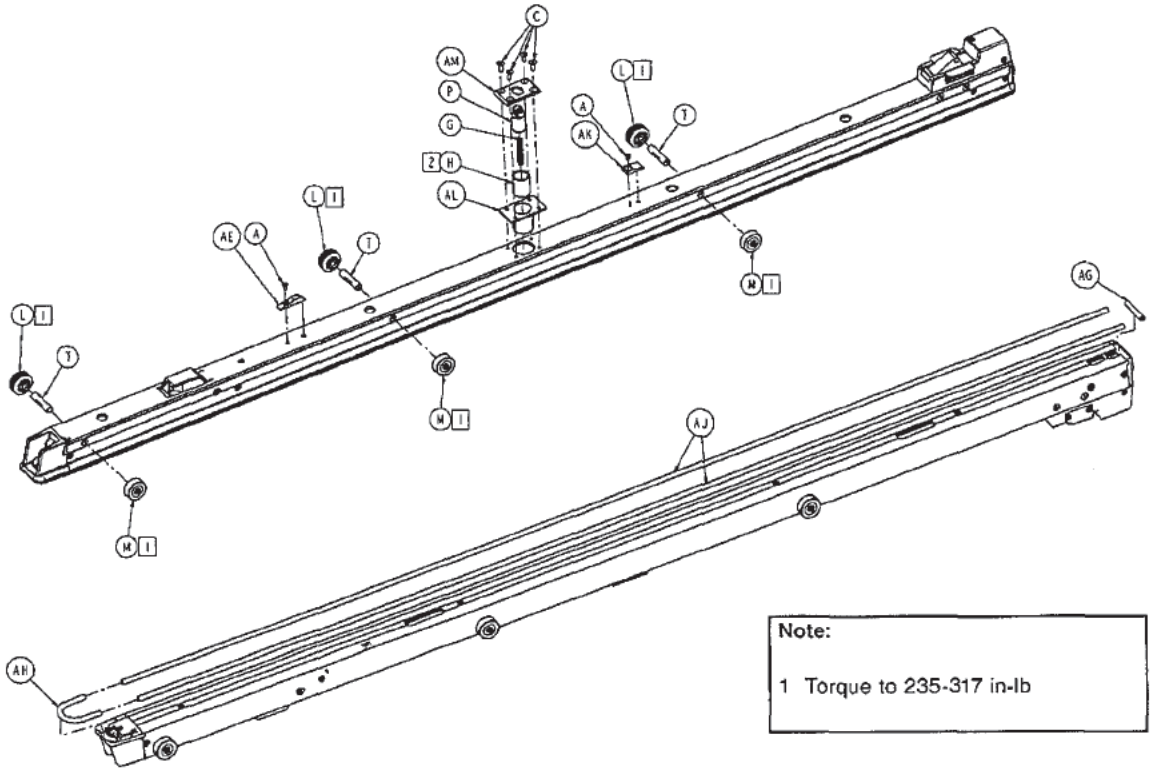
Anchor Assembly

6390-001-011 Rev D (Reference Only)



Anchor Assembly





Note:

1 Torque to 235-317 in-lb

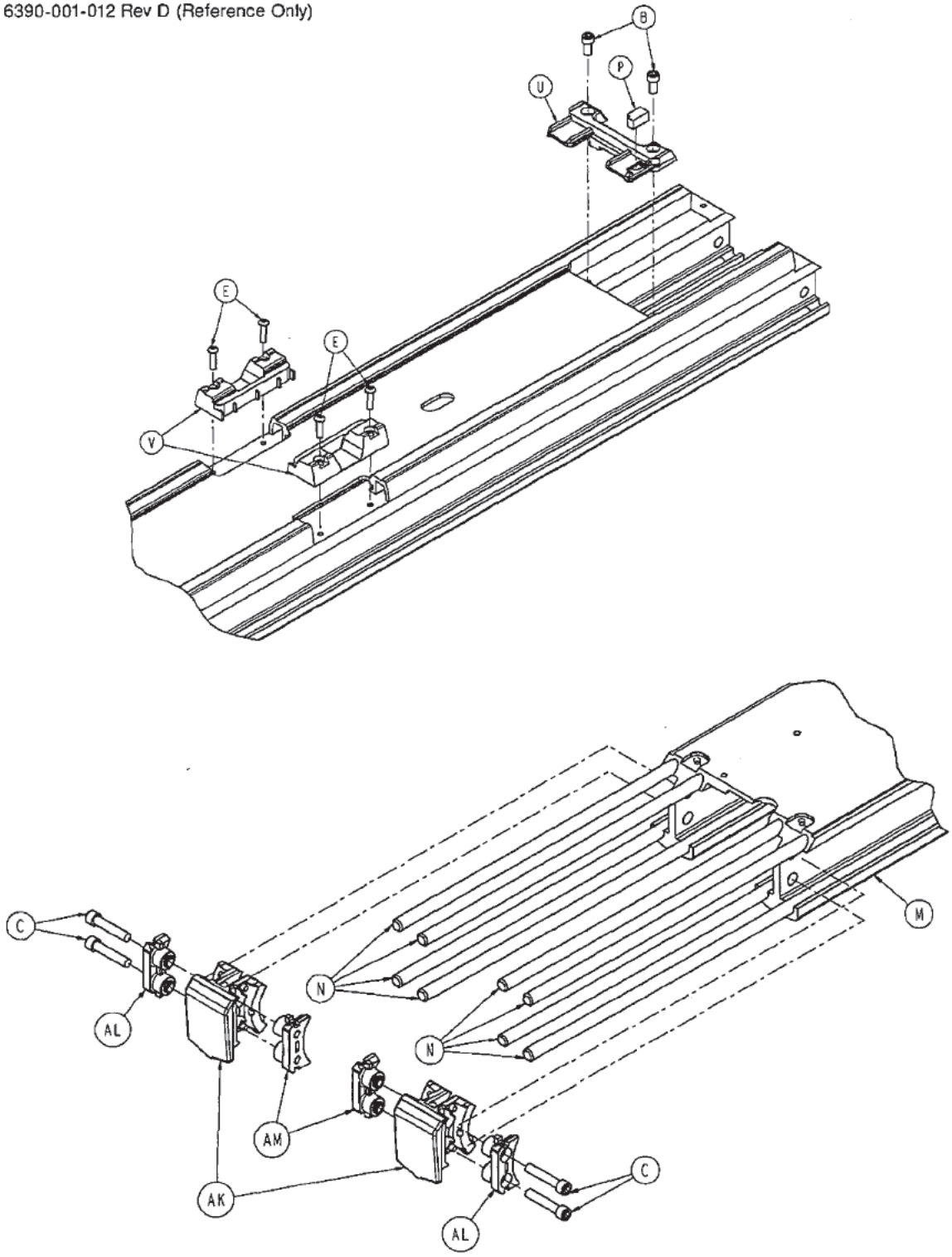
Anchor Assembly

Anchor Assembly - 6390-001-011 Rev D (Reference Only)

Item	Part No.	Part Name	Qty.
A	0001-193-000	Flat Head Cap Screw	12
B	0001-194-000	Flat Head Cap Screw	4
C	0001-195-000	Flat Head Cap Screw	4
D	0015-087-000	Square Nut	2
E	0038-111-000	Zip Tie	5
F	0038-887-000	Compression Spring	1
G	0038-606-000	Compression Spring	1
H	0081-439-000	Bronze Bearing	1
J	6390-001-023	Anchor Plunger Assembly, Mid (page 131)	1
K	6390-001-024	Anchor Pawl Assembly, Head End (page 127)	1
L	6390-001-025	V-Guide Roller Assembly	3
M	6390-001-027	Flat Roller Assembly	3
N	6390-001-067	Anchor Housing Assembly, Foot End	1
P	6390-001-074	Transfer Lock Pin Assembly	1
R	6390-001-100	Machined Anchor Extrusion	1
T	6390-001-103	Anchor Roller Axle	3
U	6390-001-104	Anchor Trigger	1
V	6390-001-112	Anchor Pivot Pin, Threaded	1
W	6390-001-113	Anchor Drive Block	3
Y	6390-001-114	Anchor Drive Rod, Medium	1
AA	6390-001-186	Anchor Drive Rod, Long	1
AB	6390-001-120	Wire Routing and Washer Bracket	1
AC	6390-001-136	Anchor End Cap, Rear	1
AD	6390-001-139	Cot Charging Cable	1
AE	6390-001-144	Trolley to Trans Lock Ramp	1
AF	6390-001-152	Anchor Rod Drive, Rear	1
AG	6390-001-179	Anchor Seal, Head End	1
AH	6390-001-180	Anchor Seal, Head End	1
AJ	6390-001-181	Anchor Seal, Side	2
AK	6390-001-193	Detent Spring Ramp	1
AL	6390-001-195	Transfer Lock Housing, Machined	1
AM	6390-001-196	Transfer Lock Cap	1
AN	6390-001-190	Anchor Drive Rod, Bearing Sleeve, Long	1

Transfer Assembly

6390-001-012 Rev D (Reference Only)



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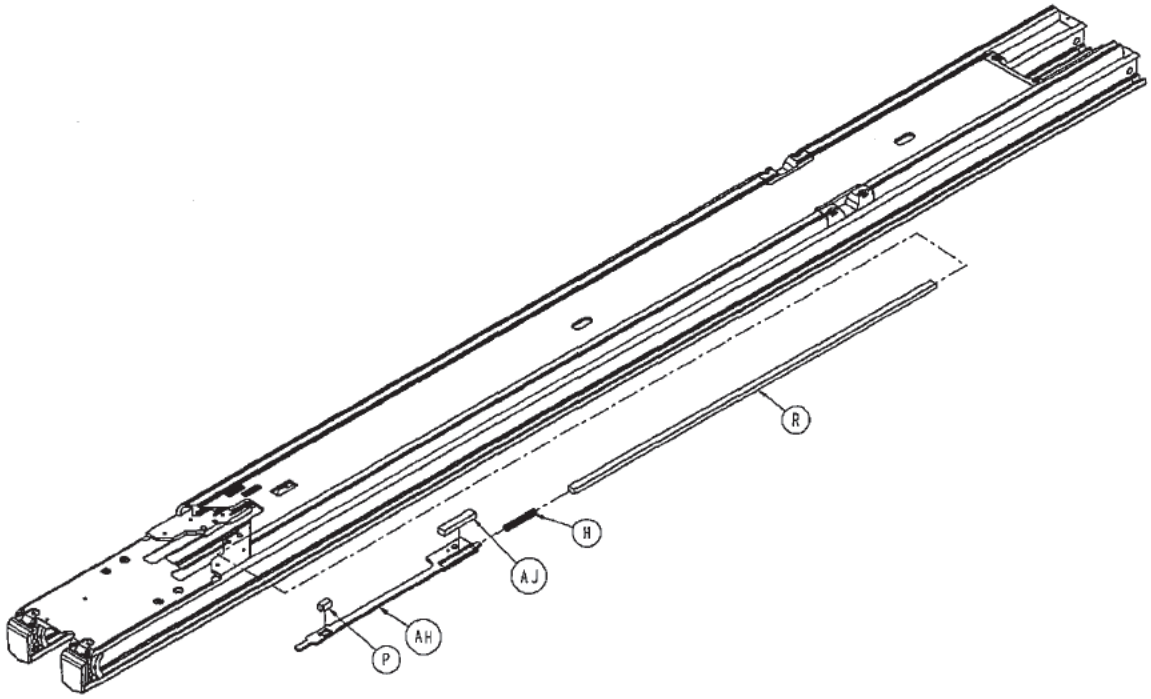
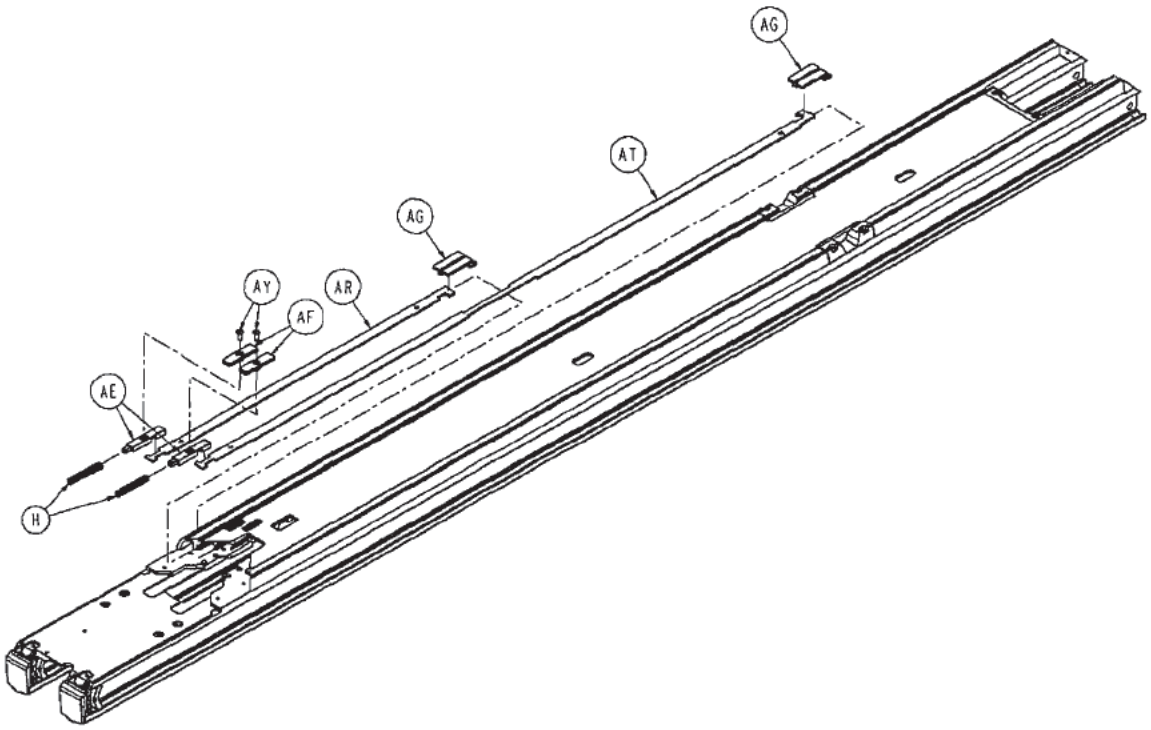
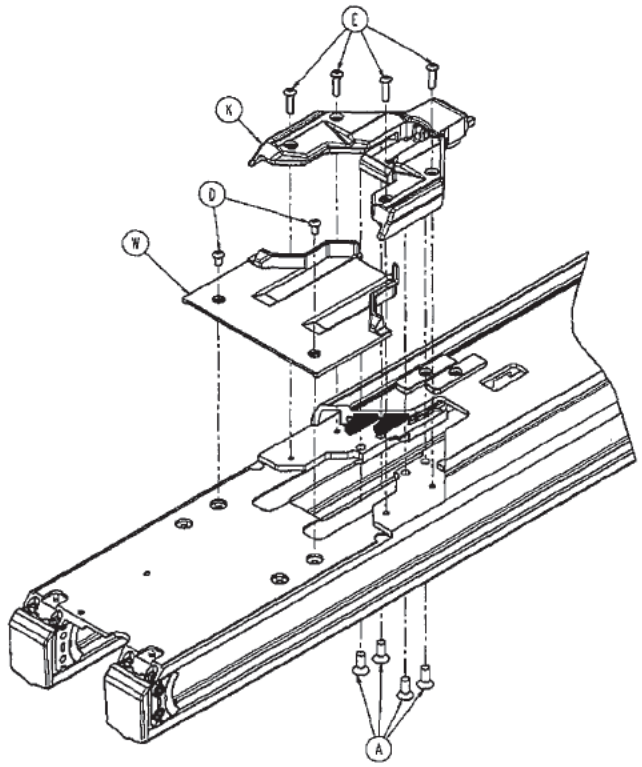
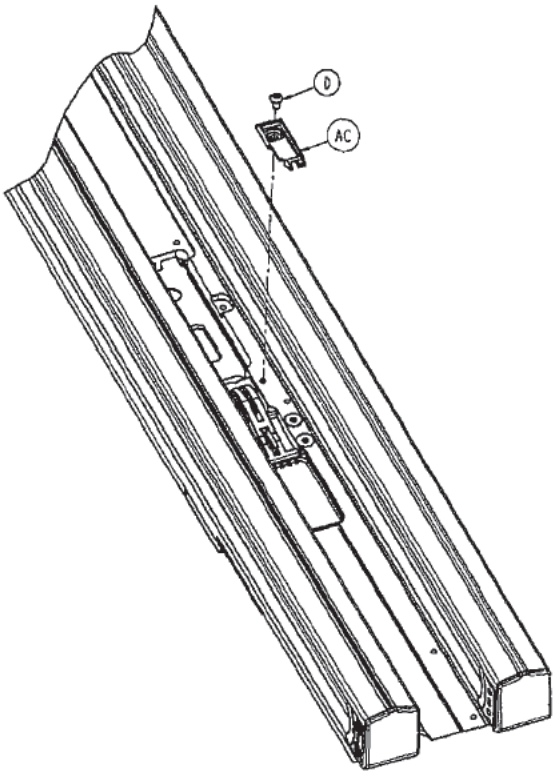




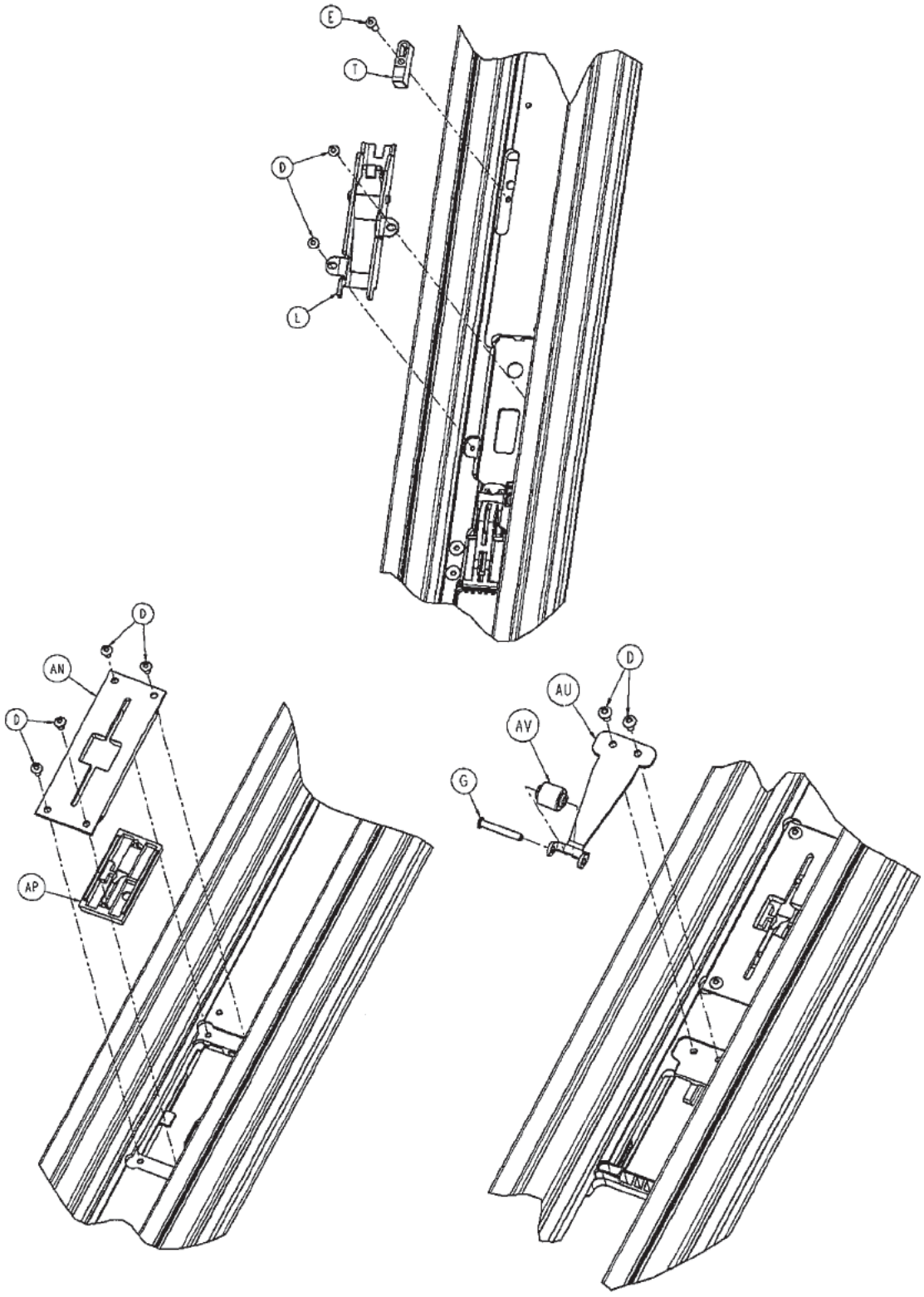
Return To Table of Contents

Transfer Assembly

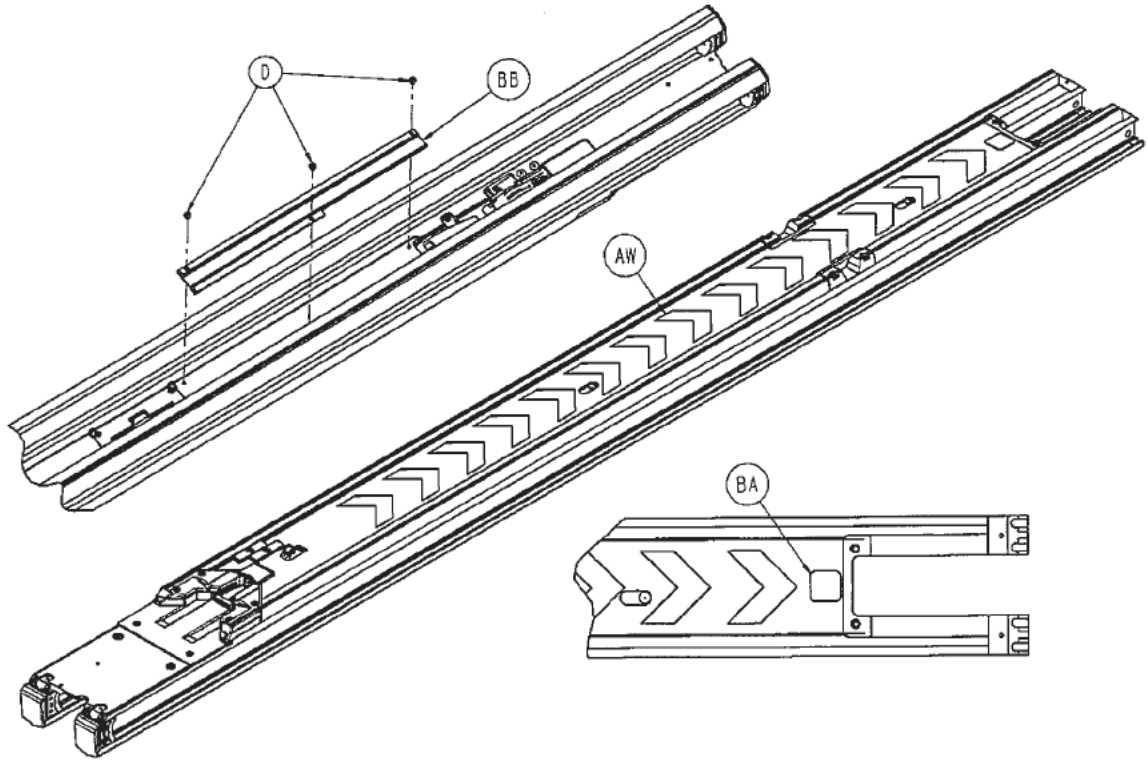




Transfer Assembly



Transfer Assembly



Transfer Assembly - 6390-001-012 Rev D (Reference Only)

Item	Part No.	Part Name	Qty.
A	0001-195-000	Flat Head Cap Screw	4
B	0004-660-000	Socket Head Cap Screw	2
C	0004-662-000	Socket Head Cap Screw	4
D	0004-665-000	Button Head Cap Screw	18
E	0004-666-000	Button Head Cap Screw	9
G	0027-778-000	Slic Pin	1
H	0038-606-000	Compression Spring	3
K	6390-001-018	Foot End Fastener Assy (page 138)	1
L	6390-001-021	Transfer Trolley Lock Assy (page 140)	1
M	6390-001-200	Transfer Extrusion	1
N	6390-001-201	Roller Rail Rod	8
P	6390-001-203	Transfer Magnet	2
R	6390-001-204	Transfer Magnet Spacer	1
T	6390-001-205	Magnet Mover Trigger	1
U	6390-001-207	Transfer Back Cover	1
V	6390-001-208	Mid Position Head End Cutout Cap	2
W	6390-001-213	Inductive Charger Cover Plate	1
AC	6390-001-217	Lock Latch Indicator Slide Block	1
AE	6390-001-230	Transfer Lock Trigger Base	2
AF	6390-001-231	Transfer Lock Trigger	2
AG	6390-001-233	Transfer Lock Slide	2
AH	6390-001-240	Magnet Mover	1
AJ	6390-001-242	Magnet Mover Glide	1

Transfer Assembly

Transfer Assembly - 6390-001-012 Rev D (Reference Only) (Continued)

AK	6390-001-243	Dead Stop Bumper	2
AL	6390-001-244	Dead Stop Block, Thru Hole	2
AM	6390-001-246	Dead Stop Block, Threaded	2
AN	6390-001-260	Transfer Lock Plate	2
AP	6390-001-261	Transfer Lock Override Slide	2
AR	6390-001-266	Transfer Lock Link, Short	1
AT	6390-001-267	Transfer Lock Link, Long	1
AU	6390-001-269	Detent Spring	1
AV	6390-001-270	Detent Roller	1
AW	6390-001-299	Label, Chevron	1
AY	0004-585-000	Button Head Cap Screw	2
BA	6060-090-114	Label, Warning	1
BB	6390-001-276	Transfer Wear Pad	1

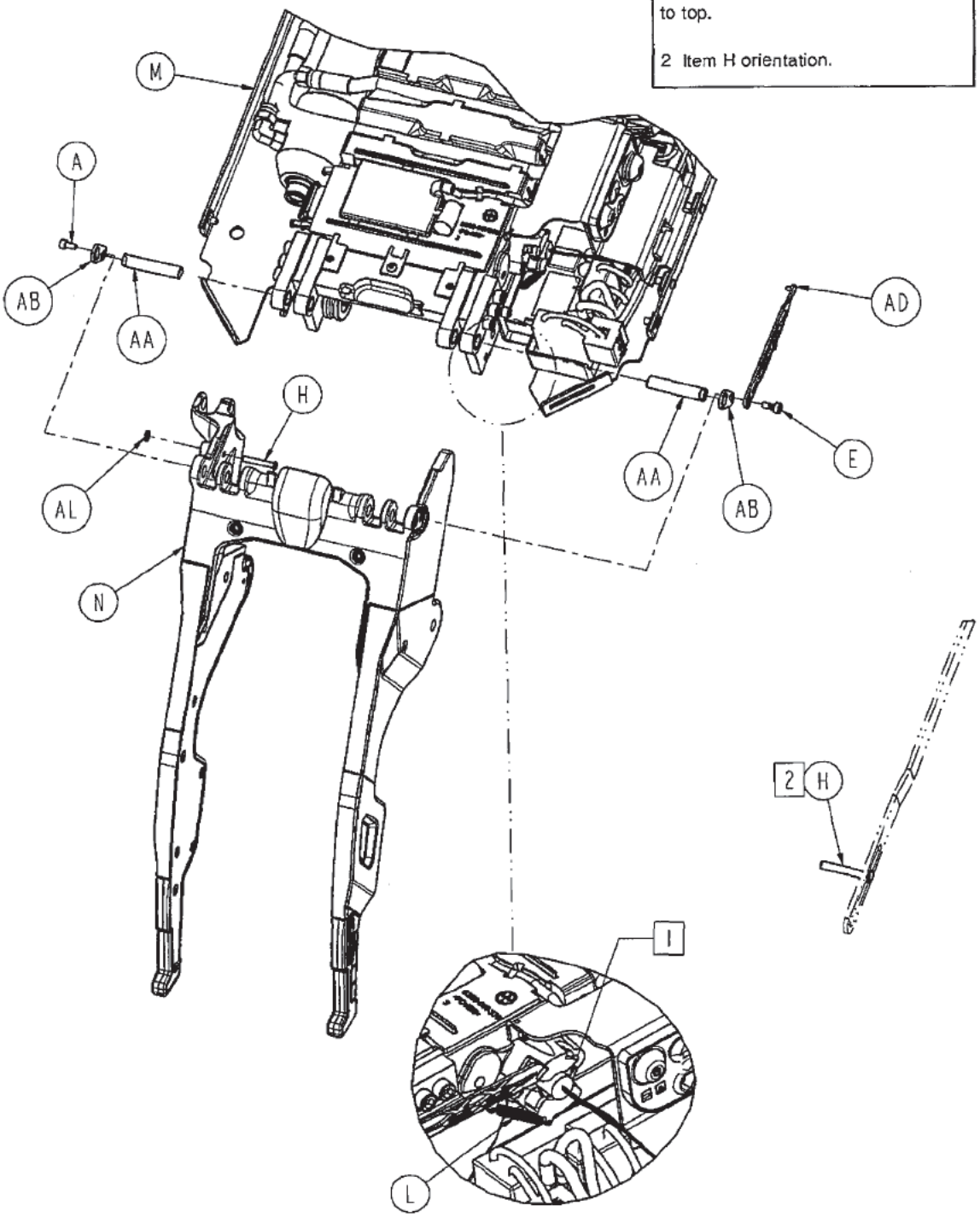
Trolley Assembly

6390-001-013 Rev E (Reference Only)

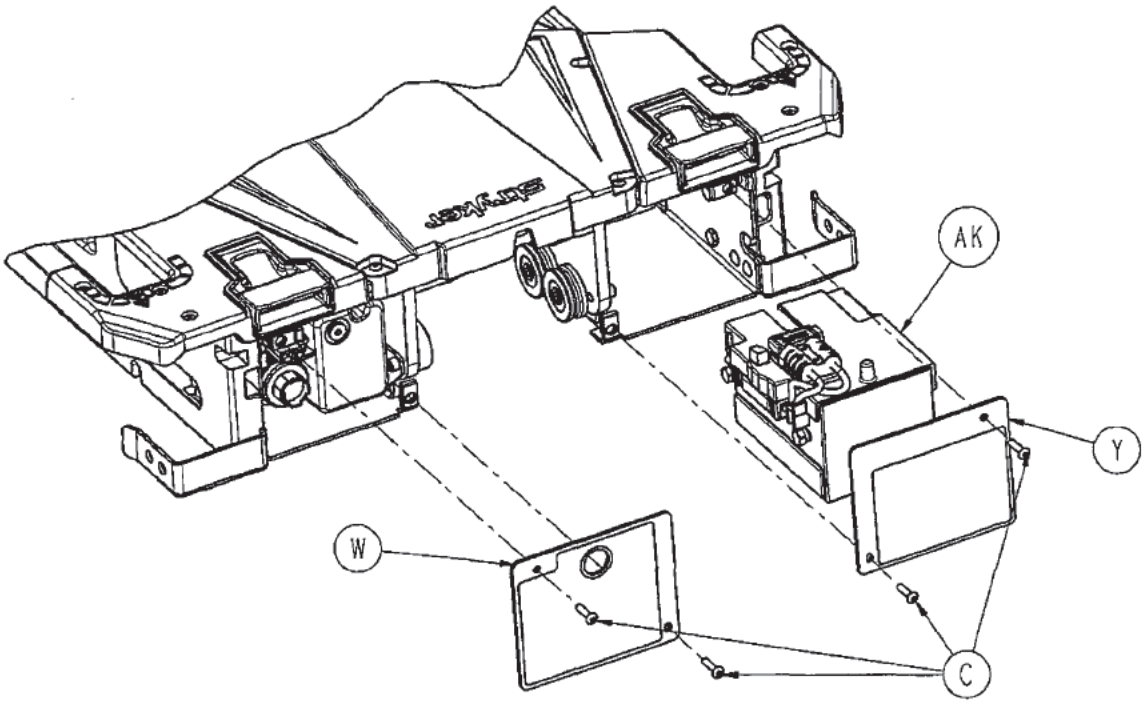
Notes:

1 Angle sensor to be connected to Item AD with indicating dot oriented to top.

2 Item H orientation.



Trolley Assembly



Trolley Assembly - 6390-001-013 Rev E (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-658-000	Socket Head Cap Screw	3
B	0004-665-000	Button Head Cap Screw	4
C	0004-666-000	Button Head Cap Screw	18
E	0008-082-000	Socket Head Set Screw	1
F	0016-132-000	Nylock Hex Nut	1
H	0027-778-000	Slic Pin	1
K	0038-111-000	Zip Tie	1
L	0038-896-000	Extension Spring	1
M	6390-001-015	Trolley Main Frame (page 146)	1
N	6390-001-016	Trolley Arm Assembly (page 167)	1
P	6390-001-040	Hydraulic Cylinder Rod End Assembly	1
R	6390-001-041	Side Cover, Right	1
T	6390-001-042	Side Cover, Left	1
U	6390-001-047	Wing Cover, Right	1
V	6390-001-048	Wing Cover, Left	1
W	6390-001-062	Trolley Rear Cover Plate, Left	1
Y	6390-001-063	Trolley Rear Cover Plate, Right	1
AA	6390-001-309	Arm Hinge Pin	2
AB	6390-001-311	Hinge Cover Plate	2
AC	6390-001-313	Cylinder Clevis Pin	1
AD	6390-001-377	Angle Sensor Link	1
AJ	6390-001-420	Trolley Top Cover	1
AK	6390-001-026	Battery Assembly	1
AL	0011-454-000	Plain Washer	1

Return To Table of Contents

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69

ALPHA MEDICAL EQUIPMENT, INC.

Stryker M-1 Roll-in System (6100) Cot

Performance. Power. Possibilities.

Stryker EMS is the global provider of industry-first patient transport products. If you are working in emergency services, you're at risk of injury. Whether caused by sudden, traumatic acute failure or cumulative trauma failure, injury will not only shorten careers but will also reduce operational efficiency.

Stryker EMS is dedicated to delivering best-in-class solutions for real industry issues that reduce the risk of injuries to the caregiver and patient alike. We've focused our efforts to address high risk injury areas including: transferring a patient up and down stairs, raising and lowering a patient on a cot, lateral patient transfer, and loading and unloading into and out of an ambulance.

Singular Focus. Global Reach.

Stryker EMS engineering and design teams focus on continuous innovation globally with the singular goal of improving patient safety and reducing injuries among medics and caregivers. With scientifically proven results, our customers have experienced reduced Workers' Compensation costs, injuries, and lost or modified workdays, while improving recruitment and retention through the deployment of these proven technologies.

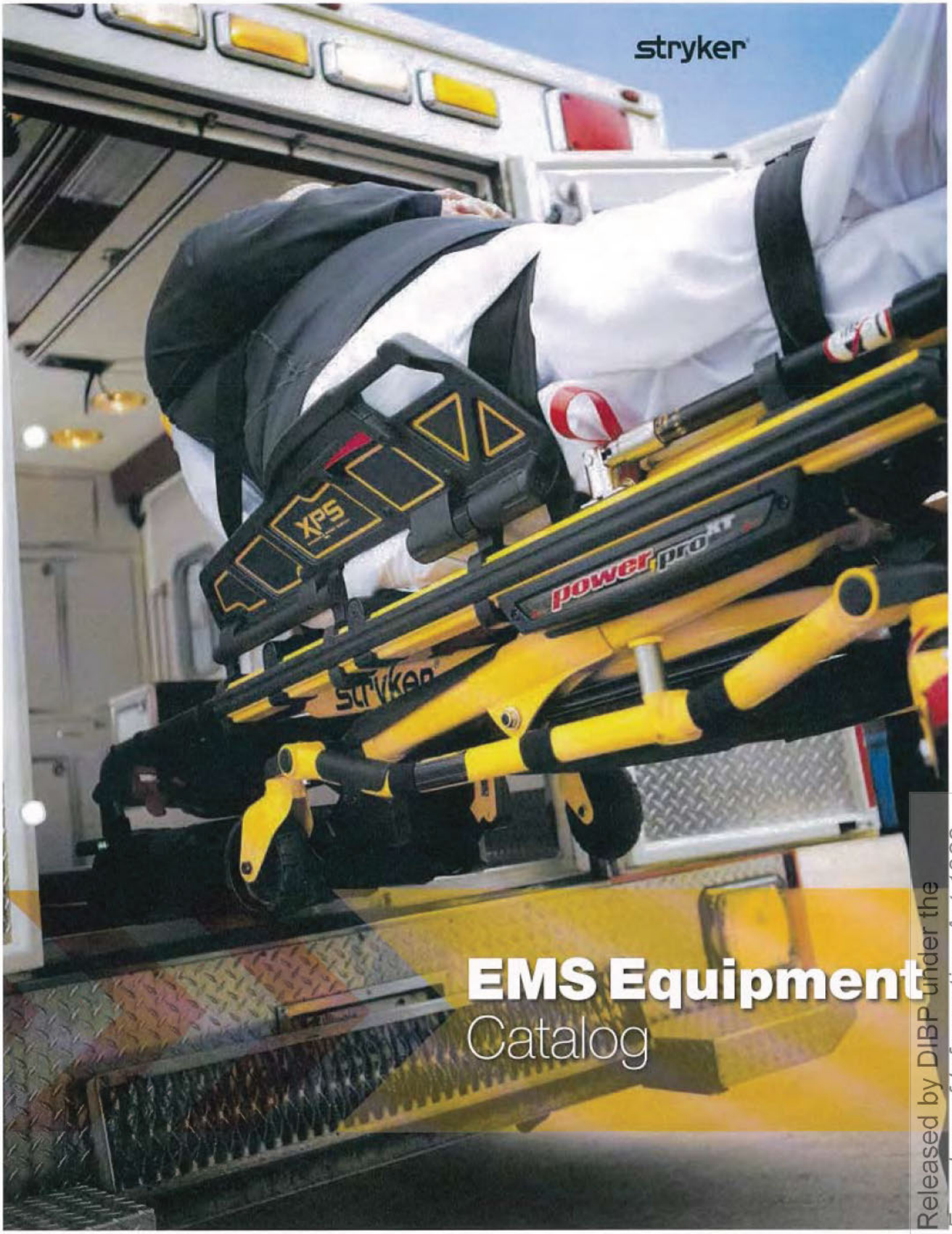
The M-1 roll-in system provides true one-person operation and unrivaled ease of use. This cot defines best-in-class versatility. The removable litter and patented Steer Lock System provide excellent maneuverability. Ergonomic lift-and-grip design with color-coded controls provides unprecedented usability.

Specifications:

- Height: Position 1 14"; Position 2 24"; Position 3 30"; Position 4 35"; Position 5 38"; Position 6 39"; Position 7 13"; Position 8 40"; Position 9 42.2"; Litter, Flat Foot 7'; Litter, Knee Gatch 7"
- Wheels: Diameter 6" and Width 2"
- Maximum Weight Capacity: 500 lbs
- Litter Handle Extension: 8:
- Length: Base: 77"; Litter, Flat Foot 75"; Litter, Knee Gatch 75"
- Width: 22"
- Minimum Operators Required: Occupied Cot 2; Unoccupied Cot 1
- Articulation: Flat Foot Backrest 0-73 degrees; Flat Foot Shock Position N/A; Flat Foot Knw Gatch N/A; Knee Gatch Backrest 0-75 degrees; Knee Gatch Shock Position + 17 degrees; Knee Gatch Kn Kagth 30 degrees
- Recommended Fastener System: Floor Mount 6373 (center mount, DIN guide) or 6378 (center mount, Straight guide without belts)
- Warranty: One year parts, labot and travel or two years parts
- *Contact Customer Service for Other Cot Options to be considered

Item #	Item Name	U of M	Price	
14-074-6100	Stryker M-1 Roll-in System (6100) Cot	Each	$5,770.00	Add To Cart

a



EMS Equipment
Catalog

(L9)

66

Ambulance Cots

Power-PRO XT | 6506

powered ambulance cot

Reduce the risk of injuries when raising and lowering

Now the standard of care, the Power-PRO XT was designed with extensive input from medics, resulting in a cot that reduces manual lifting. The innovative battery-powered hydraulic system raises and lowers the patient with the touch of a button* and the retractable head section shortens the cot for 360-degree mobility in any height position.

Key Features

1. Hydraulic lift system
2. Settable load height with jog function
3. Power-LOAD compatibility option
4. Shock, flat leg or optional knee gatch positioning
5. Retractable head section

CE IPX6 IEC-60601-1

700lb capacity

*700 lb. weight capacity with an unassisted lift capacity of 500 lb. (Cot loads over 300 lb. (136 kg) may require additional assistance to meet the set cot load height).

Performance-PRO XT | 6086

manual ambulance cot

Lightest-in-Class Versatility

The Performance-PRO XT is a tough, all-aluminum X-frame cot that sets the standard for manual cot operation. Lightest-in-class versatility, proven performance and increased stability put this cot in a class of its own.

The retractable head section delivers 360-degrees of mobility in any height. And its hand clearance around the litter frame allows for an increase in operator safety. These are just a few of the many features the Performance-PRO XT has to offer.

Key Features

1. Shock, flat leg or optional knee gatch positioning
2. Fold-down side rails
3. Lift-capable safety bar
4. Retractable head section
5. Adjustable load height to three positions
6. Side release handle
7. Power-LOAD compatibility option
8. Built-in pull handle
9. Non-slip textured lift handles on head/foot end
10. Duplicate Foot End controls to promote proper lifting
11. Bolster mattress

CE

700lb capacity

Power-PRO IT | 6516

powered incubator transport

Reduce the risk of injuries when raising and lowering

The Power-PRO IT incubator transport cot provides stability and safety while reducing the amount of manual lifting that caregivers experience on a day-to-day basis.

Key Features

1. Level patient surface at transport and working heights
2. Settable load height with jog function
3. Compatible with: Airborne stackable, Dräger stackable, Airborne side-by-side, no adapter options
4. Optional rigid push bars
5. Power-LOAD compatibility option

IPX6 IEC-60601-1

COTS

Power-PRO TL | 6550

powered ambulance cot

Reduce the risk of cumulative trauma injuries

The Power-PRO TL reduces spinal loading that can result in injury from these repetitive actions. Reduce the risk of lost and modified workdays. Because the Power-PRO TL can increase length of careers while improving retention and recruitment, it is now the industry standard of care.

Key Features

1. Pneumatically Assisted Backrest
2. Rigid Push Bars (optional)
3. Retractable Head and Foot Sections
4. Hydraulic Lift System
5. Patented X-frame

IPX6 IEC-60601-1 BS EN-1789

700lb capacity

MX-PRO | 6083
bariatric transport ambulance cot

Strong Support with Wide Base

The MX-PRO bariatric transport features a wide patient surface and wheelbase, providing stability during transport. Compatibility with most ramp and winch systems, and existing ambulance cot fastener configurations, allow service providers to deploy the bariatric cot when and where you need it.

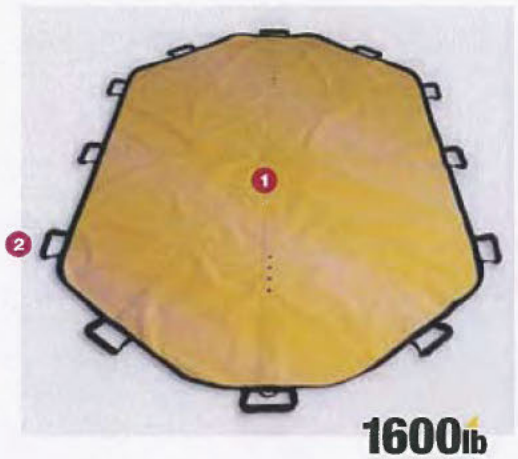
Key Features

1. 29-Inch width for superior stability
2. Optional push/pull handles
3. Optional tow package and side lift handles

CE

1600lb
lowest position capacity

Patient Transfer



1600lb
capacity

Transfer Flat | 6005
patient transfer

Big Versatility in a Small Package

The transfer flat adds a higher level of flexibility to your response capability. It can be used alone or as a means of transfer to other cot and transport equipment. Twelve rugged handles provide ample lift and leverage points. The heavy-duty webbing will support bariatric patients.

Key Features

1. Reinforced with 2-inch polyester webbing for superior strength
2. Rigid heavy-duty lift handles ergonomically designed for multiple lifters
3. Small size and compact design promote multipurpose use

(61)

MX-PRO R3 | 6082

X-frame ambulance cot

Light, Durable, Fast-Handling

The MX-PRO R3 features a 650 lb. weight capacity, yet it weighs only 81 lb. You get a lightweight cot that's strong, durable and easy to handle.

Key Features

1. Pneumatically assisted backrest
2. One-hand release breakaway head section
3. Fold-down side rails
4. Duplicate foot end controls to promote proper lifting

CE

COTS

M-1 | 6100

roll-in ambulance cot

Maneuverable and Versatile

For true one-person operation and unrivaled ease of use, the M-1 roll-in system defines best-in-class versatility. The removable litter and patented Steer-Lock System™ provide excellent maneuverability.

Key Features

1. Lift handles at four corners
2. Oversized wheels for low rolling force
3. Two versions of removable litter
4. Shock, flat leg or optional knee gatch positioning

CE EN-1865 AS/NZS-4535 EN-1789

52

M1® Roll-In System

REF 6100

stryker®

Operations/Maintenance Manual

Manuel d'utilisation et d'entretien
Manual de uso y mantenimiento
Bedienungs- und Wartungshandbuch
Gebruiks-/onderhoudshandleiding
Manuale d'uso e manutenzione
Manual de funcionamento/manutenção
Betjenings-/vedligeholdelsesmanual
Användar-/underhållshandbok
Käyttö- ja huolto-ohjekirja
Instrukcja obsługi/konserwacji
Návod k obsluze a údržbě

CE

2012/11 C.1 6100-009-005 REV C www.stryker.com

M1® Roll-In System

REF 6100

stryker

Operations/Maintenance Manual

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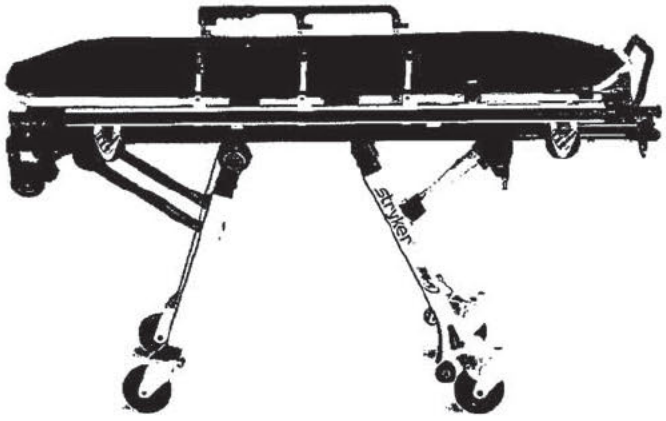

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2012/11 C.1 6100-009-005 REV C www.stryker.com

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Table of Contents

Return To Table of Contents

English

Table of Contents

Return To Table of Contents

Symbols and Definitions

English

SYMBOLS

	Attention, consult accompanying documents
	Safe Working Load Symbol

WARNING/CAUTION/NOTE DEFINITION

The words **WARNING**, **CAUTION** and **NOTE** carry special meanings and should be carefully reviewed.

⚠ WARNING

Alerts the reader about a situation which, if not avoided, could result in death or serious injury. It may also describe potential serious adverse reactions and safety hazards.

⚠ CAUTION

Alerts the reader of a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or damage to the equipment or other property. This includes special care necessary for the safe and effective use of the device and the care necessary to avoid damage to a device that may occur as a result of use or misuse.

NOTE

Provides special information to make maintenance easier or important instructions clearer.

English

Introduction

This manual is designed to assist you with the operation and maintenance of the Stryker Model 6100 M-1® Roll-in System. Read this manual thoroughly before using the equipment or beginning maintenance on it. To ensure safe operation of this equipment, it is recommended that methods and procedures be established for educating and training staff on the safe operation of this cot.

PRODUCT DESCRIPTION

The Stryker Model 6100 M-1® Roll-in System is a manual ambulance cot that consists of a platform on a wheeled frame designed to support and transport a maximum weight of 500 pounds (227 kg) in pre-hospital and hospital environments. The device is collapsible for use in emergency vehicles, has a removable litter and patented Steer Lock System™ which provides enhanced maneuverability. The device is equipped with the following: lift handles at four corners, patient securement straps, an adjustable pneumatic backrest and various optional accessories that assist with transport of the patient. Maximum patient comfort is attainable with the three different litter positions of shock, flat leg and optional knee gatch positioning.

INTENDED USE OF PRODUCT

The Stryker Model 6100 M-1® Roll-in System is a non-powered wheeled stretcher, which is intended to support and transport the entire body of a traumatized, ambulatory or non-ambulatory human patient (includes infants and adults). The device is designed to support patients in a supine (horizontal) or sitting position and facilitate the transportation of associated medical equipment (i.e. oxygen bottles, and/or I.V bags) in emergency/transport vehicles. This ambulance cot is intended to be used in pre-hospital and hospital environments, in emergency and non-emergency applications. It is rated to a maximum capacity of 500 pounds (227 kg) (sum of the patient, mattress and accessory weight) and the intended operators of the device are trained professionals including emergency medical service and medical care center personnel, as well as medical first responders. The expected service life of the product is five (5) years.

Ambulance cots are intended for transportation purposes. They are not intended for extended stay or to be used as hospital beds. They are also not intended to be used in devices which modify air pressure, such as hyperbaric chambers.

BASE UNIT SPECIFICATIONS
6100 Series M1® Base Unit - Part Number 6100-003-000

Safe Working Load **Note:** Safe Working Load indicates the sum of the patient mattress and accessory weight.		500 lb	227 kg
Backrest Articulation/Shock Position		See page 1-6	
Length/Width		77 in / 21 in	195,6 cm / 53,3 cm
Height [1]	Position 1	14.4 in	36,6 cm
	Position 2	24.4 in	62,0 cm
	Position 3	30.0 in	76,2 cm
	Position 4	34.6 in	87,9 cm
	Position 5	37.6 in	95,5 cm
	Position 6	39.3 in	99,8 cm
	Position 7	13.0 in	33,0 cm
	Position 8	N/A	N/A
Weight [2]		77.7 lb	35,2 kg
Caster Diameter/Width		6 in / 2 in	15,2 cm / 5,1 cm
Minimum Operators Required for Loading/Unloading		1	
Recommended Fastener Systems		Model 6381 Center Mount, Straight Guide Model 6373 Center Mount DIN Guide Model 6376 Center Mount, Straight Guide - No Side Restraint Belts	
Recommended Floor/Tray Height		27 in - 31 in	68,6 cm - 78,8 cm

[1] Height measured from bottom of mattress at seat section to ground level.

[2] Standard base unit is weighed without optional accessories.

Stryker reserves the right to change specifications without notice.

The M1® Roll-In System is designed to conform to DIN EN 1865:1999, Specifications for stretchers and other patient handling equipment used in road ambulances and DIN EN 1789/A1:2003 Clause 5.3 Medical vehicles and their equipment - Road ambulances.

The M1® Roll-In System, equipped with the AS/NZS 4535:1999 upgrade, is designed to conform to Australian/New Zealand Standard™ - Ambulance restraint systems.

Patents pending.

Introduction

LITTER SPECIFICATIONS

6100 Series M1® Knee Gatch Litter - Part Number 6100-031-000

Length	74.5 in	189,2 cm
Width	22.1 in	56,1 cm
Height [1]	7.3 in	18,5 cm
Weight [2]	44.6 lb	20,2 kg
Maximum Weight Capacity	500 lb	227 kg
Wheel Diameter/Width	4.0 in / 0.8 in	10,2 cm / 2.0 cm
Backrest Articulation	0° to 75°	
Shock Position	+17°	
Knee Gatch Position	30°	
Handle Extension	7.75 in	19,7 cm

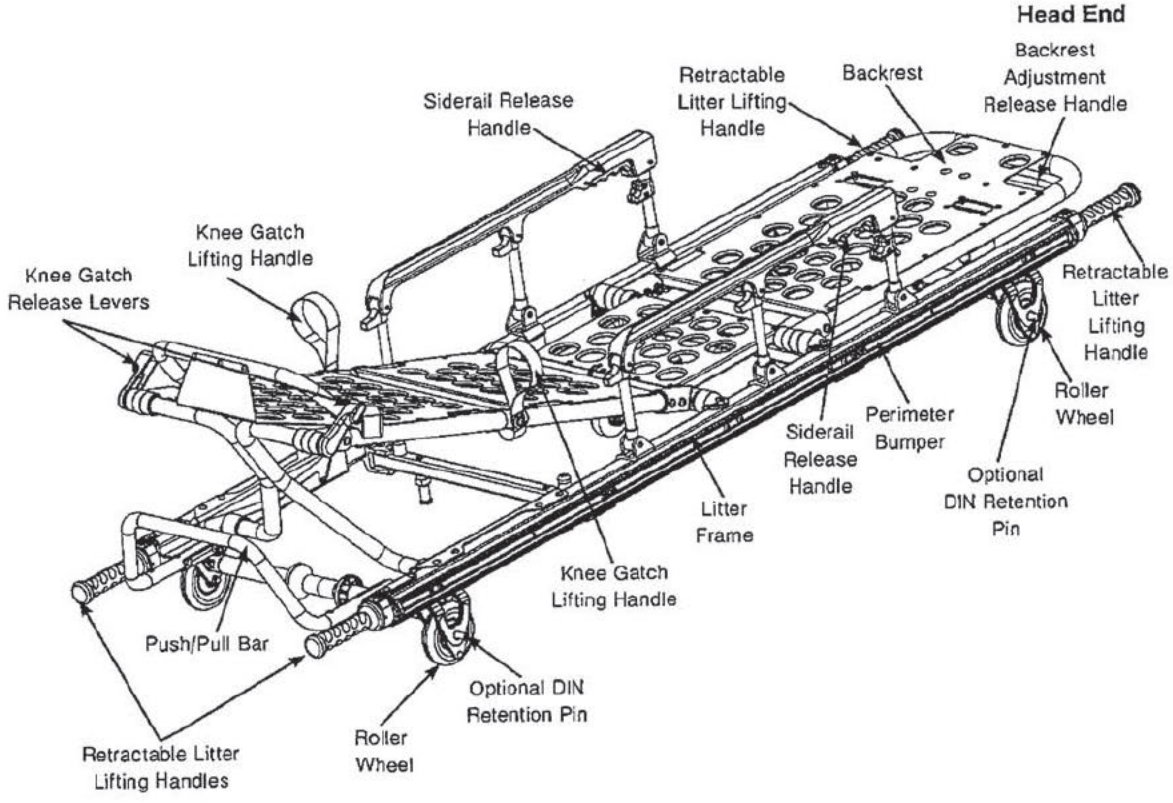


Figure 1: Knee Gatch Litter

PRODUCT ILLUSTRATION

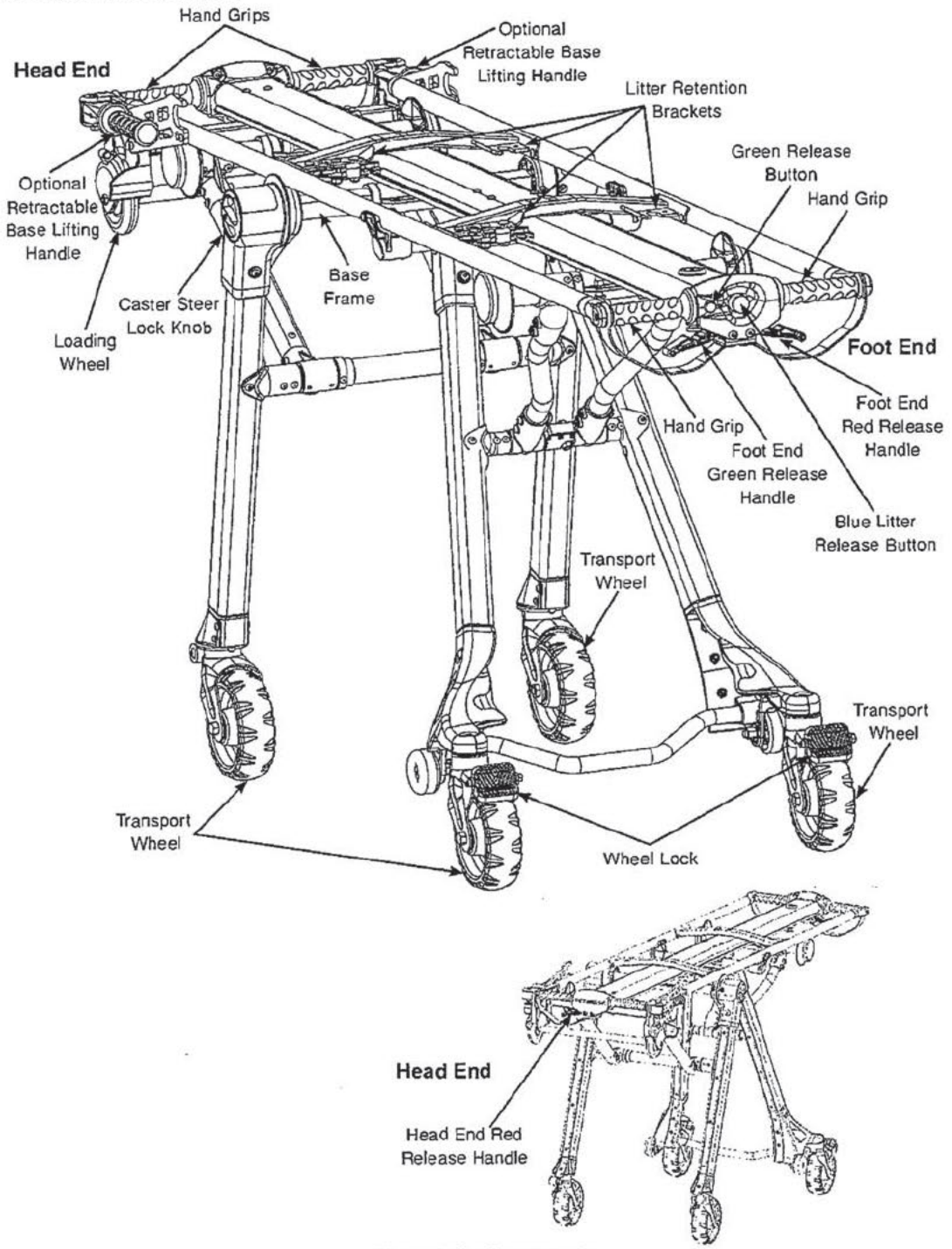


Figure 4: Cot Components

Return To Table of Contents

OPERATING GUIDELINES

- Use the cot only as described in this manual.
- Read all labels and instructions on the cot before using the cot.
- Loading an occupied cot into a vehicle requires a minimum of **one (1) trained operator**. If the load weight or height is difficult for the operator, additional assistance is needed, see "Using Additional Assistance" on page 1-23.
- Do not adjust, roll or load the cot into a vehicle without advising the patient. Stay with the patient and control the cot at all times.
- Stryker recommends that the operators transport the patient in the lowest comfortable position to maneuver the cot.
- Only use the wheel locks during patient transfer or without a patient on the cot.
- Do not leave wheel locks engaged while transporting the cot. Failure to do so may cause wheel damage.
- Always use the restraint straps when a patient is on the cot.
- Use properly trained helpers, when necessary, to control the cot.

⚠ WARNING

- Improper usage of the cot can cause injury to the patient or operator. Operate the cot only as described in this manual.
- Practice changing height positions and loading the cot until operation of the product is fully understood. Improper use can cause injury.
- The higher the operator must lift the cot, the more difficult it becomes to hold the weight. The operator may need help loading the cot into a vehicle if he/she is too short or if the patient is too heavy for the operator to lift safely. If additional assistance is needed, see the reference chart on page 1-23.
- Do not allow untrained assistants to assist in the operation of the cot. Untrained technicians/assistants can cause injury to the patient or themselves.
- Transporting the cot sideways can cause the cot to tip, resulting in possible damage to the product and/or injury to the patient or operator.
- Grasping the cot improperly can cause injury. Keep hands, fingers and feet away from moving parts.

⚠ CAUTION

Before operating the cot, clear any obstacles that may interfere and cause injury to the operator or patient.

PROPER LIFTING TECHNIQUES

When lifting the cot and patient, there are five basic guidelines to help you avoid injury:

- Keep your hands close to your body.
- Keep your back straight.
- Coordinate your movements with your partner and lift with your legs.
- Avoid twisting.
- Always operate the cot as described in this manual.

TRANSFERRING THE PATIENT TO THE COT

To transfer the patient to the cot:

1. Roll the cot to the patient.
2. Place the cot beside the patient and raise or lower the cot to the level of the patient.
3. Lower the siderails and open the restraint straps.
4. Transfer the patient to the cot using accepted EMS procedures.
5. Use all the restraint straps to secure the patient to the cot (see page 1-32).
6. Raise the siderails and adjust the backrest and foot rest as necessary.

Note: When transferring larger patients, use of the Transfer Flat (6005-001-001) is recommended.

⚠ WARNING

- Always use all restraint straps to secure the patient on the cot. An unrestrained patient may fall from the cot and be injured.
- Never leave a patient unattended on the cot or injury could result. Hold the cot securely while a patient is on the product.
- Never apply the wheel locks while a patient is on the cot. Tipping could occur if the cot is moved while the wheel lock is applied, resulting in injury to the patient or operator and/or damage to the cot.
- Siderails are not intended to serve as a patient restraint device. See page 1-32 for proper restraint strap usage. Failure to use the siderails properly could result in patient injury.

ROLLING THE COT

When rolling the cot:

- Requires two (2) operators.
- Make sure that all of the restraint straps are securely buckled around the patient (see page 1-32).
- Place the cot in position six (6) for rolling (see page 1-17 for cot positions).
- Position an operator at the foot end and one (1) at the head end of the cot **at all times** when rolling the cot with a patient on it.
- Approach door sills or other low obstacles squarely and lift each set of wheels over the obstacle separately.

⚠ WARNING

High obstacles such as curbing, steps or rough terrain can cause the cot to tip, possibly causing injury to the patient or operator.

CHANGING COT HEIGHT

The cot has (6) six height positions (see page 1-17):

- Highest or "Loading" position
- Four intermediate patient transfer positions
- "Folded" position for ambulance transport

⚠ WARNING

- The caster steer lock knob and the casters must be in the locked position when loading/unloading the cot from a vehicle or loading tray system and when the cot height is changed or the cot may become unstable possibly resulting in injury to the patient or operator.
- The higher the operator must lift the cot, the more difficult it becomes to hold the weight. The operator may need help loading the cot into a vehicle if he/she is too short or if the patient is too heavy for the operator to lift safely. If additional assistance is needed, see the reference chart on page 1-23.
- Always verify the base frame is securely locked into position before removing the loading wheels from the patient compartment floor of the vehicle or loading tray system. An unlocked base frame will not support the cot and injury to the patient or operator could result.
- Practice changing height positions and loading the cot until operation of the product is fully understood. Improper use could cause injury.

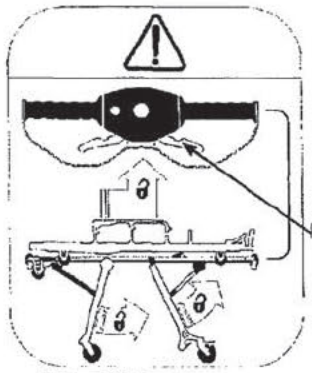
To change the cot height:

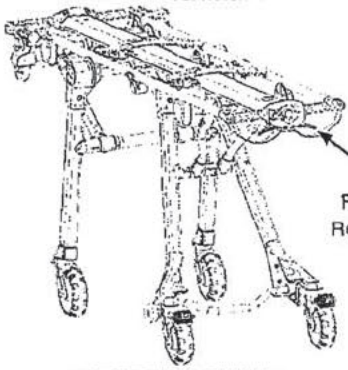
- Two (2) operators standing at opposite ends of the cot firmly grasp the hand grips on the base unit.
- Both operators lift the cot until the weight is off the latching mechanism (approximately 1/4").
- Both operators squeeze and hold the red release handles and raise or lower the cot to the desired height.
- As motion of the cot begins, each operator relaxes his/her grip on the release handle to stop the cot in the next available height position.

Note:

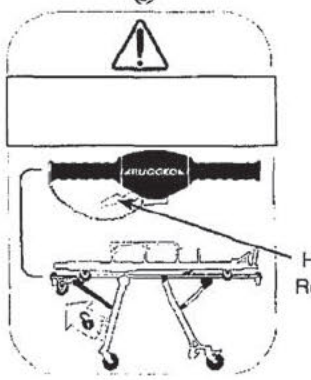
- Always communicate with your partner to ensure you work together to achieve the intended operation.
- An operator working alone can lower the cot by releasing alternating ends of the cot.

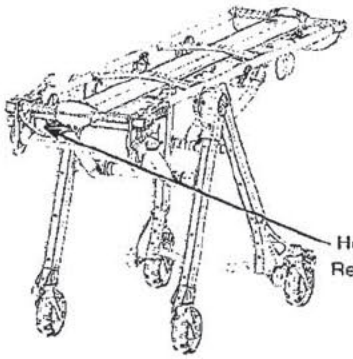
Foot End





Head End





LOADING THE COT INTO A VEHICLE

⚠ WARNING

- The caster steer lock knob and the casters must be in the locked position when loading/unloading the cot from a vehicle or loading tray system and when changing cot height positions or the cot may become unstable possibly resulting in injury to the patient or operator.
- Loading, unloading and changing the position of the cot requires a minimum of one trained operator. The operator(s) must be able to lift the total weight of the patient, cot and any other items on the cot. If additional assistance is needed, see the reference chart on page 1-23.
- The higher the operator must lift the cot, the more difficult it becomes to hold the weight. The operator may need help loading the cot into a vehicle if he/she is too short or if the patient is too heavy for the operator to lift safely. If additional assistance is needed, see the reference chart on page 1-23.

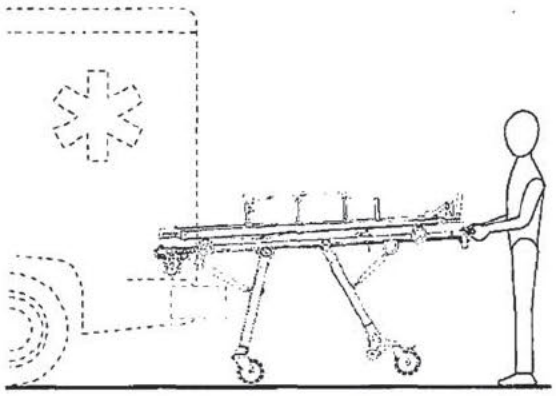
Place the cot in the loading position (see page 1-17). Roll the cot to the vehicle or loading tray system until the cot's loading wheels are in the vehicle or loading tray system. Guide the cot forward until the cot's front legs contact the rear of the vehicle or loading tray system.

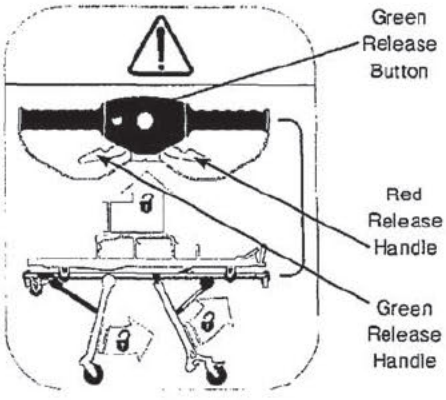
At the foot end of the cot, push and hold the green safety release button and squeeze and hold the green release handle.

Guide the cot into the vehicle or loading tray system (the front legs will fold back) until the rear legs come in contact with the vehicle or loading tray system. Relax your grip on the green release handle and green button.

Lift the foot end of the cot slightly to take the weight off the rear wheels. Squeeze and hold the red release handle and guide the cot into the vehicle or loading tray system (the rear legs will fold back) engaging the cot fastener system.

Note: Loose items or debris on the patient compartment floor can interfere with the smooth rolling of the cot and the operation of the cot fastener. Keep the patient compartment floor clear.





UNLOADING THE COT FROM A VEHICLE

⚠ WARNING

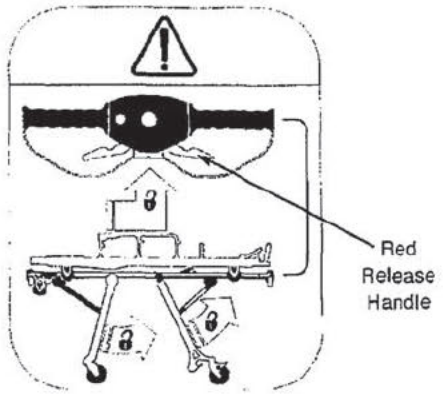
- The caster steer lock knob and the casters must be in the locked position when loading/unloading the cot from a vehicle or loading tray system and when changing cot height positions or the cot may become unstable possibly resulting in injury to the patient or operator.
- Loading, unloading and changing the position of the cot requires a minimum of one trained operator. The operator(s) must be able to lift the total weight of the patient, cot and any other items on the cot. If additional assistance is needed, see the reference chart on page 1-23.
- The higher the operator must lift the cot, the more difficult it becomes to hold the weight. The operator may need help loading the cot into a vehicle if he/she is too short or if the patient is too heavy for the operator to lift safely. If additional assistance is needed, see the reference chart on page 1-23.
- Always verify the base frame is securely locked into position before removing the loading wheels from the patient compartment floor of the vehicle or loading tray system. An unlocked base frame will not support the cot and injury to the patient or operator could result.

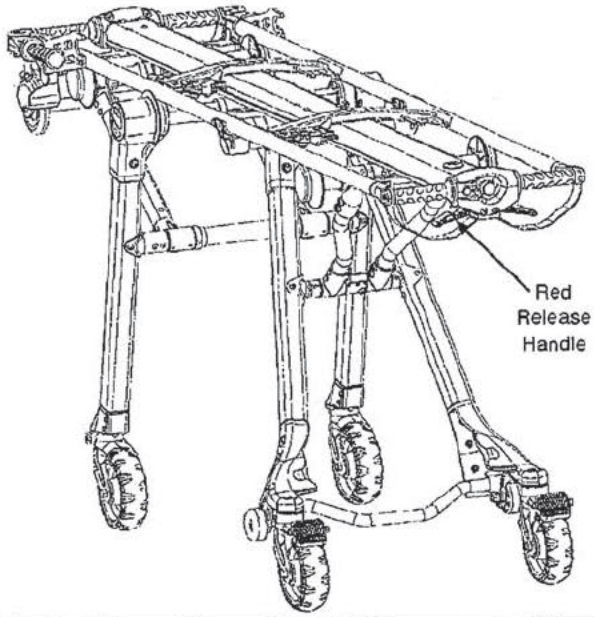
Disengage the cot from the cot fastener system.

Grasp the hand grips at the foot end of the cot base frame securely and squeeze and hold the red release handle. Guide the cot out of the vehicle or loading tray system until the rear legs lower and fully extend.

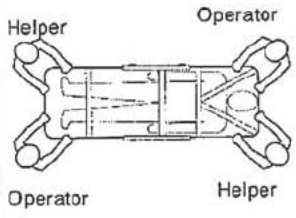
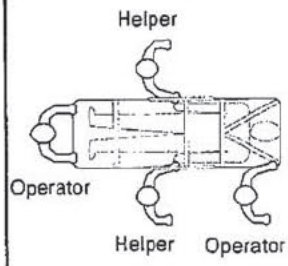
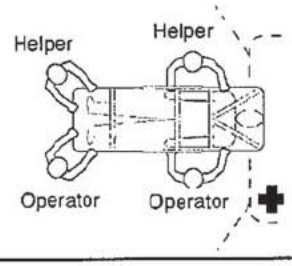
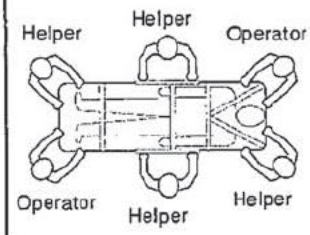
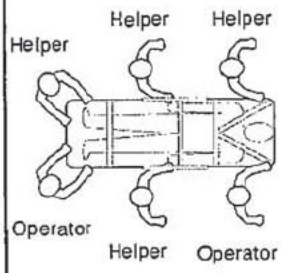
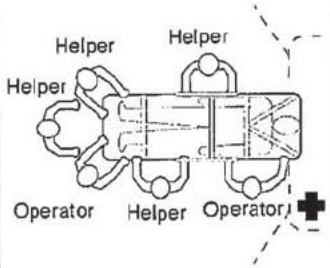
Release the red release handle when the legs are fully extended.

After verifying the rear legs are securely locked in place, continue to guide the cot out of the vehicle or loading tray system until the front legs of the cot lower and lock into position. It may be necessary to lift the cot slightly to allow the legs to fully extend and lock. After verifying the front legs are securely locked in place, pull the cot away from the ambulance until the loading wheels clear the patient compartment floor.





USING ADDITIONAL ASSISTANCE

	Changing Levels	Rolling	Loading/Unloading
Two Operators Two Helpers			
Two Operators Four Helpers			

OPERATING THE SIDERAILS

To raise the siderails, as shown in Figure 5, lift up on the siderail until the latch clicks and the siderail locks into place.

To lower the siderails, squeeze handle (B) to release the siderail latch. Guide the siderail down toward the foot end until flat. Ensure that the siderails are lowered when a patient is being transferred to or from the cot.

⚠ WARNING

Siderails are not intended to serve as a patient restraint device. See page 1-32 proper restraint strap usage. Failure to use the siderails properly could result in patient injury.

OPERATING THE BACKREST

To raise the backrest, as shown in Figure 5, squeeze handle (A) for pneumatic assist in lifting the backrest to the desired height.

To lower the backrest, squeeze handle (A) and push down on the backrest frame until the backrest has reached the desired height.

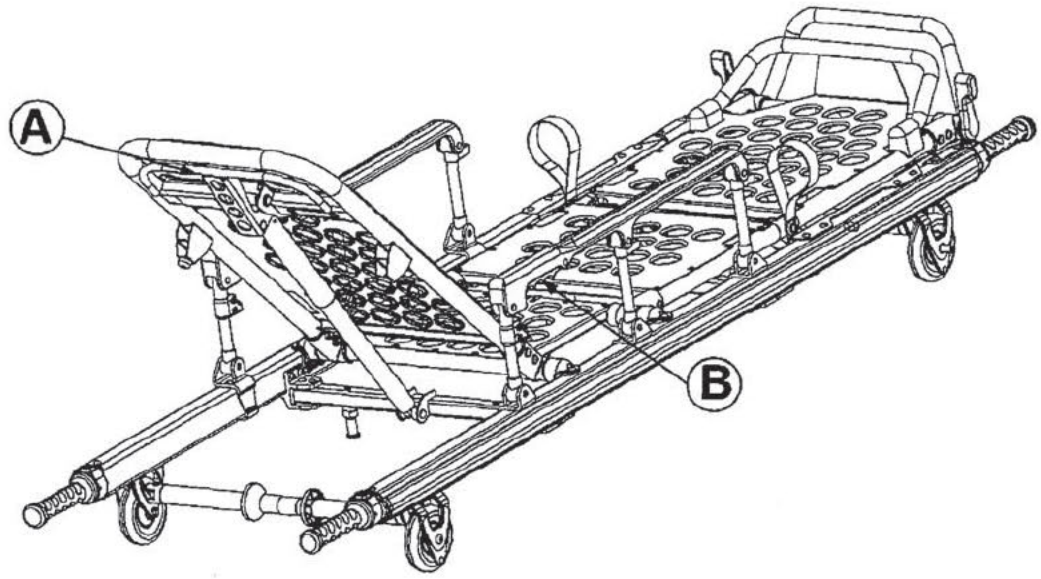


Figure 5: Backrest Elevated and Siderails Raised

35

Power-PRO™ XT

REF 6506

stryker®

Operations/Maintenance Manual

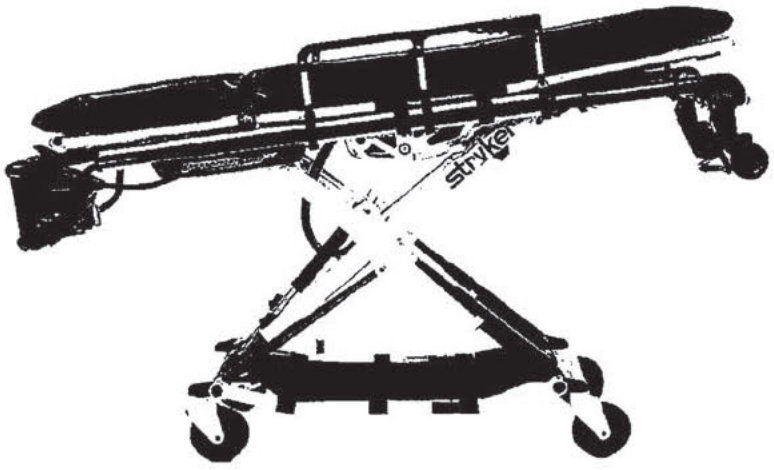
2014/11 C.1 6506-109-001 REV C www.stryker.com

34

Power-PRO™ XT

REF 6506

Operations/Maintenance Manual



2014/11 C.1 6506-109-001 REV C www.stryker.com

Symbols

	Refer to instruction manual/booklet
	Operating instructions
	CE Mark
	Manufacturer
	Safe working load
	Dangerous voltage
	General warning
	Caution
	Warning; crushing of hands
	No pushing
	Do not lubricate
	SMRT™ Power System
	Extend
	Retract
	Warning; non-ionizing radiation
IPX6	Protection from powerful water jets

Return To Table of Contents

Symbols

	Type B Applied Part
	Medical Equipment Classified by Underwriters Laboratories Inc. With Respect to Electric Shock, Fire, and Mechanical Hazards Only in Accordance with ANSI/AAMI ES60601-1: 2005 and CAN/CSA-C22.2 No. 60601-1:08.
	In accordance with European Directive 2002/96/EC on Waste Electrical and Electronic Equipment, this symbol indicates that the product must not be disposed of as unsorted municipal waste, but should be collected separately. Refer to your local distributor for return and/or collection systems available in your country.

Table of Contents

Table of Contents

Table of Contents

Introduction

This manual is designed to assist you with the operation and maintenance of the Stryker **Power-PRO™** XT cot. Read this manual thoroughly before using the equipment or beginning maintenance on it. To ensure safe operation of this equipment, it is recommended that methods and procedures be established for educating and training staff on the safe operation of this cot.

PRODUCT DESCRIPTION

The Stryker Model 6506 **Power-PRO™** XT is a powered ambulance cot that consists of a platform mounted on a wheeled X-frame designed to support and transport a maximum weight of 700 lb (318 kg) in pre-hospital and hospital environments. The device is collapsible for use in emergency vehicles and has an adjustable load height feature to allow the device to be set to different ambulance deck heights for proper body mechanics during loading and unloading. The NiCd battery-powered hydraulic lift system allows operators to raise and lower the cot using the powered controls, while duplicate foot-end controls on the upper and lower lift bars accommodate different operator positions or sizes. The cot is equipped with a manual back-up release handle to allow the operation of cot functions in the event of power loss. The device is equipped with the following: a retractable head section for 360-degree mobility in any height position, side rails, patient securement straps, an adjustable pneumatic backrest and various optional accessories that assist with transport of the patient. Maximum patient comfort is attainable with the three different litter positions of shock, flat leg and optional knee gatch positioning.

INTENDED USE OF PRODUCT

The Stryker **Power-PRO™** is a powered wheeled stretcher, which is intended to support and transport the entire body of a traumatized, ambulatory or non-ambulatory human patient (includes infants and adults). The battery-powered hydraulic lift system is intended to help reduce the effort required by the operator to raise and lower the cot. The device is designed to support patients in a supine (horizontal) or sitting position and facilitate the transportation of associated medical equipment (i.e. oxygen bottles, monitors, and/or pumps) in emergency/transport vehicles. This ambulance cot is intended to be used in pre-hospital and hospital environments, in emergency and non-emergency applications. It is rated to a maximum capacity of 700 lb (318 kg) (sum of the patient, mattress and accessory weight) and the intended operators of the device are trained professionals including emergency medical service and medical care center personnel, as well as medical first responders.

EXPECTED SERVICE LIFE

- 7 years for **Power-PRO™** XT cot
- 7 years for **SMRT™** charger
- 2 years for **SMRT™** Pak battery

CONTRAINDICATIONS

- **Power-PRO™** XT is not intended for extended stay or to be used as a hospital bed.
- **Power-PRO™** XT is not intended to be used in devices which modify air pressure, such as hyperbaric chambers.

Return To Table of Contents

Introduction

SPECIFICATIONS

Safe Working Load **Note:** Safe Working Load indicates the sum of the patient, mattress and accessory weight.	700 lb	318 kg
Maximum Unassisted Lift Capacity [1]	500 lb	227 kg
Backrest Articulation/Shock Position	0° to 73° / +15°	
Overall Length/Minimum Length/Width	81 in / 63 in / 23 in	206 cm / 160 cm / 58 cm
Height[2]	Adjustable from 14 in to 41.5 in	Adjustable from 36 cm to 105 cm
Weight[3]	125 lb	57 kg
Caster Diameter/Width	6 in / 2 in	15 cm / 5 cm
Minimum Operators Required for Loading/ Unloading an Occupied Cot	2	
Minimum Operators Required for Loading/ Unloading an Unoccupied Cot	1	
Recommended Fastener Systems	Model 6370 or 6377 Floor Mount Type Model 6371 Wall Mount Type Model 6390 Power-LOAD	
Recommended Loading Height[4]	Up to 36 in	Up to 91 cm
Single Adjustable Wheel Lock/ Double Adjustable Wheel Lock	Optional	
Hydraulic Oil	Stryker Part Number 6500-001-293	
Power System		
Battery	24V ⎓ NiCd - **SMRT™** Power System	
Charger	100-240V 1.20 A, 50/60Hz or 12V ⎓ 4.16 A - **SMRT™** Power System	
Cot Duty Cycle	16.7% (1 Min. On / 5 Min. Off)	
Standards (Cots and Chargers)[5]	ANSI/AAMI ES60601-1: 2005, CAN/CSA-C22.2 No. 60601-1:08, BS EN 1789, AS/NZS-4535, KKK-A-1822, SAE J3027	

[1] Cot loads over 300 lb (136 kg) may require additional assistance to meet the set cot load height.

[2] Height measured from bottom of mattress at seat section to ground level.

[3] Cot is weighed with one battery and without mattress and restraints.

[4] Cot may be set to any ambulance deck height ranging from 26" to 36" (66 cm to 91 cm).

[5] To meet SAE J3027 and AS/NZS-4535 crash-test standards with the use of a crash-rated fastener, such as Power-LOAD (Model 6390) (when equipped with the XPS option siderails), you must install the X-restraint package (6500-001-430) and knee gatch bolster mattress (6500-002-150). To meet BS EN 1789 crash-test standards with the use of a crash-rated fastener, such as Power-LOAD (Model 6390), you must install the G-rated restraint package (6500-002-030) and knee gatch bolster mattress (6500-002-150).

Stryker reserves the right to change specifications without notice.

The **Power-PRO™** XT is designed to conform to the Federal Specification for the Star-of-Life Ambulance (KKK-A-1822).

The **Power-PRO™** XT is designed to be compatible with competitive cot fastener systems.

Patents pending.

The yellow and black color scheme is a proprietary trademark of Stryker Corporation.

Stryker hereby declares that this **Power-PRO™** XT ambulance cot (model 6506) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the original declaration of conformity can be obtained by contacting Stryker Medical at 3800 E. Centre Ave. Portage, MI 49002 Attn. Regulatory Affairs.

Return To Table of Contents

PRODUCT ILLUSTRATION

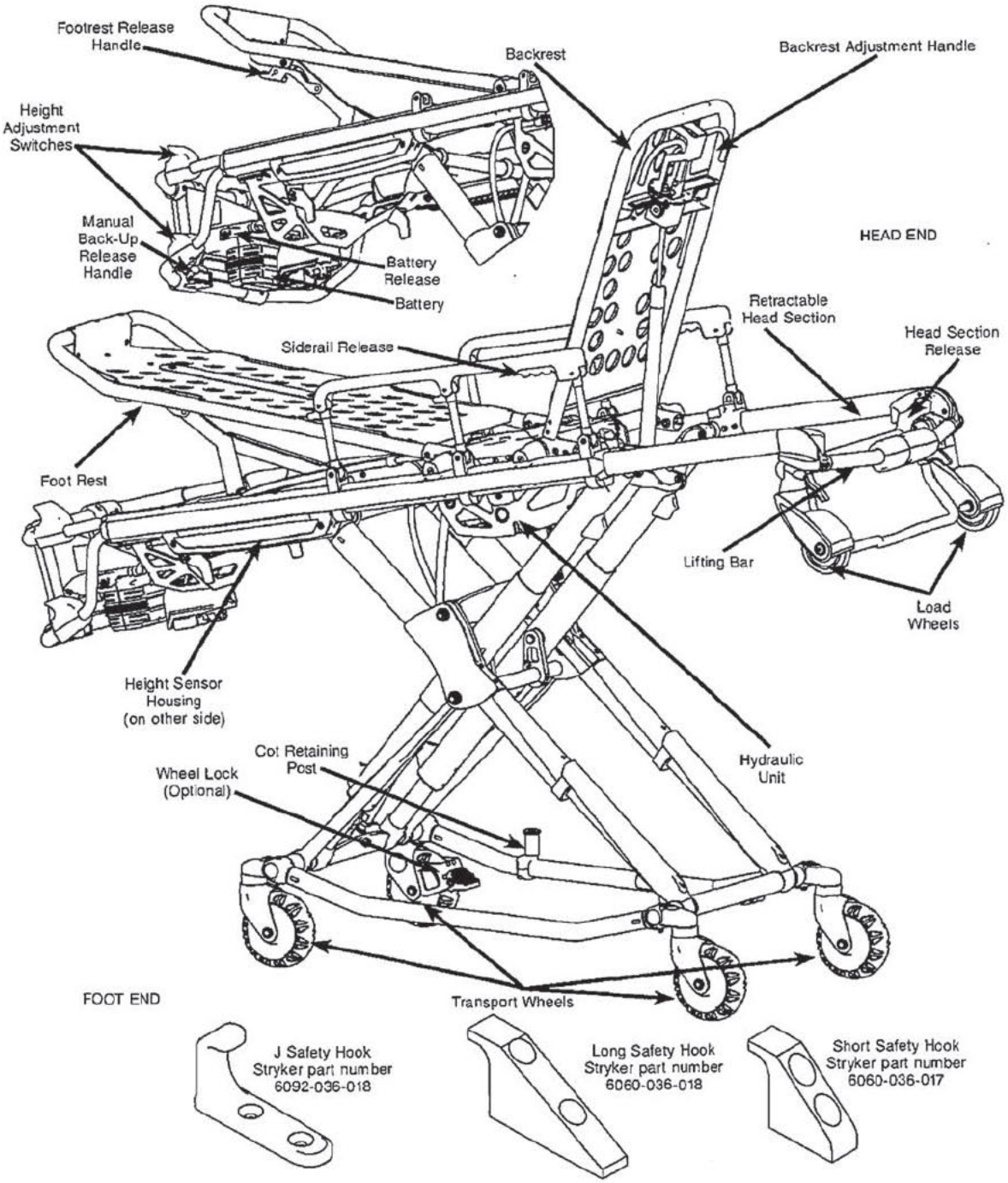


Figure 2

Return To Table of Contents

LOADING THE COT INTO A VEHICLE WITH TWO OPERATORS - POWERED METHOD

Loading an occupied cot into a vehicle requires a minimum of **two (2) trained operators.** One or two operators can lift from the foot end of the cot. Stryker recommends that both operators are at the foot end to reduce the load on each operator.

⚠ WARNING

- Two operators must be present when the cot is occupied.
- Operators must be able to lift the total weight of the patient, cot and any items on the cot.
- The higher an operator must lift the cot, the more difficult it becomes to hold the weight. An operator may need help loading the cot if he/she is too short or if the patient is too heavy to lift safely. The operator must be able to lift the cot high enough for the cot legs to unfold completely and lock when the cot is unloaded. A shorter operator needs to raise their arms higher to enable the undercarriage to unfold.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- There must be a safety hook properly installed in the vehicle so that the bumper does not interfere with the front legs of the base frame.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 27.

To load the cot into a vehicle with two operators:

1. Ensure that the retractable head section is fully extended and locked.
2. Place the cot in a loading position (any position where the load wheels meet the vehicle floor height).
3. Lift the vehicle bumper to the raised position (if equipped).
4. Roll the cot to the open door of the patient compartment.
5. Push the cot forward until the load wheels are on the compartment floor and the safety bar passes the safety hook as shown in Figure 22.
6. For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
7. **Operator 2** – Verify that the safety bar engages the safety hook.

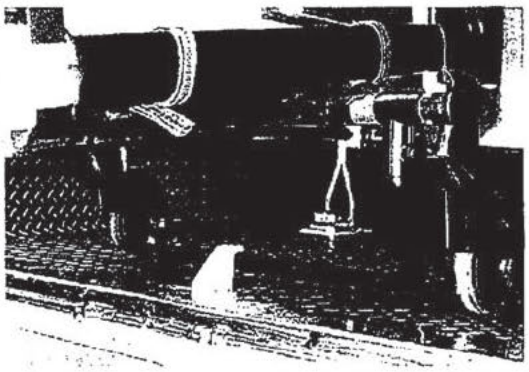


Figure 22

Return To Table of Contents

LOADING THE COT INTO A VEHICLE WITH TWO OPERATORS - POWERED METHOD (CONTINUED)

8. Load the cot either from the foot end or with one operator at the foot end and one on the side:

With both operators at the foot end (preferred method):

- **Both Operators** – Grasp the cot frame at the foot end (Figure 23).
- **Operator 1** – Press the retract (–) button until the undercarriage of the cot retracts fully (Figure 24).

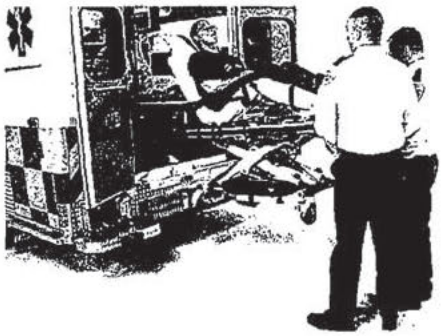


Figure 23

Figure 24

With one operator at the foot end and one on the side:

- **Operator 1** – Grasp the cot frame at the foot end and press the retract (–) button (Figure 25) until the undercarriage of the cot retracts fully (Figure 25).

Figure 25

Figure 26

- **Operator 2** – Securely grasp the cot outer rail to stabilize the cot during retraction.

9. **Both Operators** – Push the cot into the patient compartment as shown in Figure 24 or Figure 26 until the cot engages the cot fastener (not included).

⚠ WARNING

When using a cot fastener, do not load the cot into the vehicle with the head section retracted. Loading the cot with the head section retracted may cause the product to tip or not engage properly in the cot fastener, possibly causing injury to the patient or operator and/or damage to the cot.

LOADING AN EMPTY COT INTO A VEHICLE WITH ONE OPERATOR - POWERED METHOD

Loading an **unoccupied** cot into the emergency vehicle can be accomplished by a single operator.

⚠ WARNING

- The one person loading and unloading procedures are for use only with an empty cot. Do not use the procedures when loading/unloading a patient. Injury to the patient or operator could result.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.

To load an empty cot into a vehicle with one operator:

1. Place the cot into a loading position (any position where the load wheels of the head section meet the vehicle floor height).
2. Lift the vehicle bumper to the raised position (if equipped).
3. Roll the cot to the open door of the patient compartment.
4. Push the cot forward until the load wheels are on the patient compartment floor (Figure 27) and the safety bar passes the safety hook.
5. For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
6. Grasp the cot frame at the foot end and press the retract (–) button, until the undercarriage of the cot retracts into its highest position as shown in Figure 28.
7. Push the cot into the patient compartment until the cot engages the cot fastener (not included) as shown in Figure 29.

⚠ WARNING

When using a cot fastener, do not load the cot into the vehicle with the head section retracted. Loading the cot with the head section retracted may cause the product to tip or not engage properly in the cot fastener, possibly causing injury to the patient or operator and/or damage to the cot.

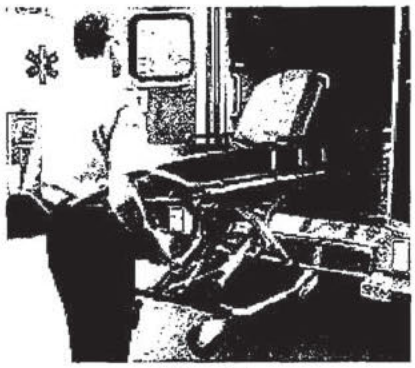


Figure 27

Figure 28

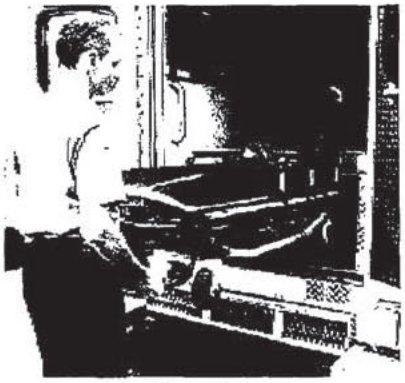


Figure 29

Return To Table of Contents

Operation Guide

ATTACHING THE MATTRESS

You have two mattress options for use with this unit. Use the standard gatch bolster mattress (6506-034-000) with the standard siderail. Use the wider gatch bolster mattress (6500-003-130) with the optional eXpandable patient system (XPS).

To attach the mattress to the cot:

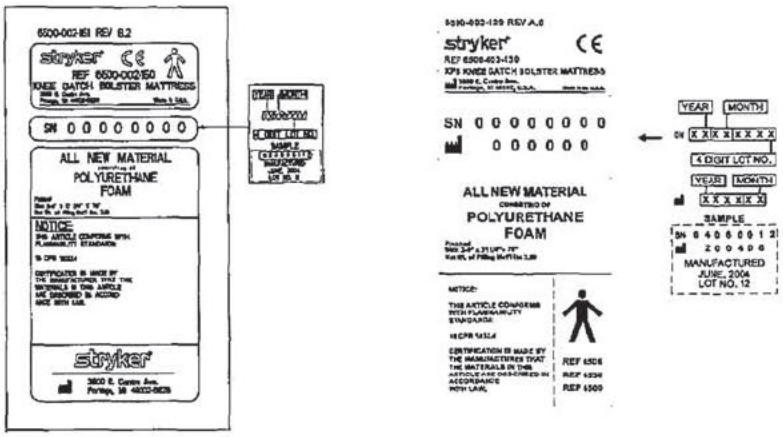
1. Align the Velcro® on the back of the mattress with the Velcro® on the cot litter.
2. Attach the strap at the foot end of the mattress through the two holes in the foot end skin on the cot litter.
3. Pull the strap through the buckle and attach the Velcro® to secure the strap.

Note: The optional gatch bolster mattress for XPS (6500-003-130) is not compatible with the standard siderail (6506-031-000).

Note: The mattress is a Type B applied part.

⚠ CAUTION

Do not store items under the cot mattress. Storing items under the mattress can interfere with the operation of the cot.



Return To Table of Contents

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