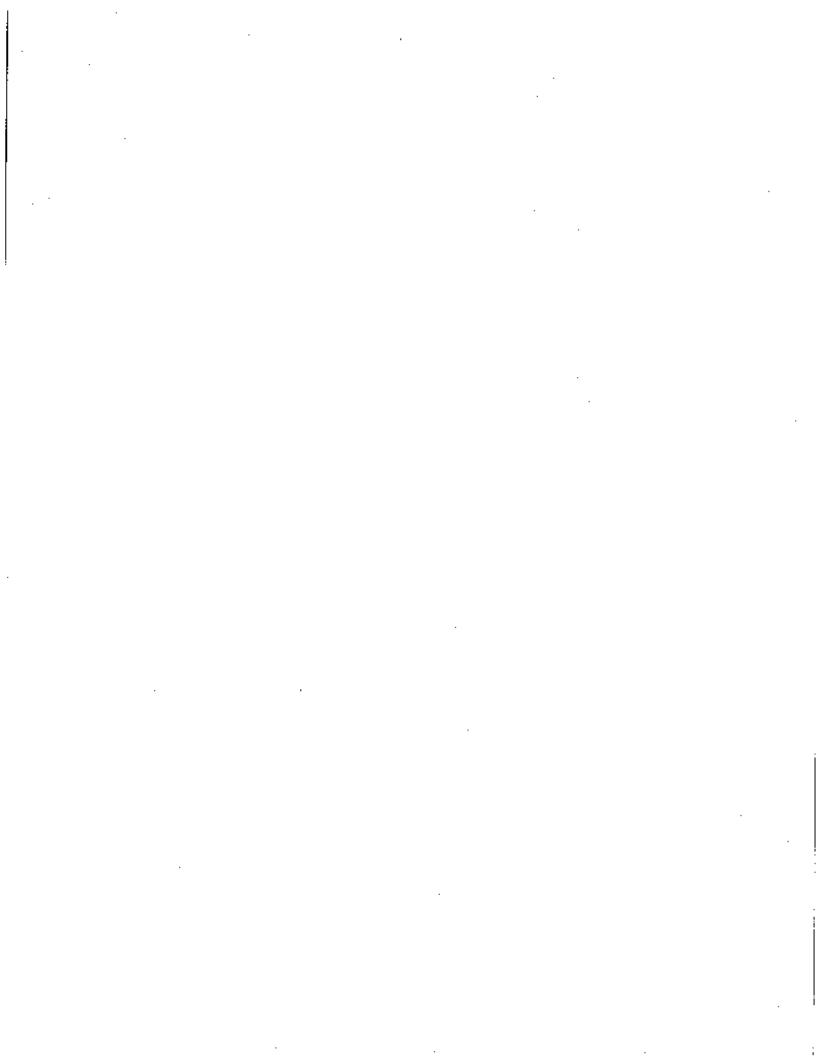


For parts or technical assistance: USA: 1-800-327-0770



Symbols

	·
(3)	Refer to instruction manual/booklet
[]i	Operating instructions
. ***	Manufacturer
<u>^^</u>	Safe working load
4	Dangerous voltage
	General warning
\triangle	Caution
	Warning; crushing of hands
8	Do not lubricate
(SMRT)Power	SMRT™ Power System
	Extend
	Retract
IPX6	Protection from powerful jets of water
	Do not transport Incubator and/or equipment in raised position
	Transport incubator and/or equipment in low position only
c 71 .us	Recognized by Underwriters Laboratories, Inc.
X	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.
	Return To Table of Contents

		. •
		·
		i
	•	
		:
		:
· .		

Symbols3
Warning/Caution/Note Definition9
Introduction
Product Description
Intended Use of Product
Contact Information
Serial Number Location
Product Illustration
Summary of Safety Precautions
Pineh Points
Setup Procedures20
Setting Cot Load Height and "Jog" Function
Cot Fastener Installation
Installing the in-Fastener Shut-Off
Vehicle Safety Hook Selection
Vehicle Safety Hook Installation
Vehicle Configuration
Required Hardware for Installation of the Safety Hook (Not Supplied)
Front to Back Positioning of the Safety Hook
Side to Side Positioning of the Safety Hook
Installing the Safety Hook
Power-PRO Cot User Controls
Using the Cot Control Switches
Checking the Cot Battery Power Level
Checking the Hour Meter/LCD Error Display
Operation Gulde
Operating Guidelines
Proper Lifting Techniques
Rolling the Cot
Adjusting The Height of the Cot
Loading or Unloading the Cot35
Loading or Unloading the Cot with the Power-LOAD Option
High Speed Retract/Extend
Loading the Cot into a Vehicle with Two Operators - Powered Method
Loading an Empty Cot into a Vehicle with One Operator - Powered Method38
Unloading the Cot from a Vehicle with Two Operators - Powered Method
Unloading an Empty Cot from a Vehicle with One Operator - Powered Method
Using the Manual Override
Loading the Cot into a Vehicle with Two Operators - Manual Method
Unloading the Cot from a Vehicle with Two Operators - Manual Method
Untoading an Empty Cot from a Vehicle with One Operator - Manual Method
Using Additional Assistance

Removing and Replacing a SMRT™ Pak	45
Operating the Retractable Head Section	<u>50</u>
Operating the Optional Wheel Locks	
Operating the Optional Steer-Lock	<u>52</u>
Installing and Removing the Incubator Adaptor	
Installing the Airborne™ Incubator In The Side-by-Side Configuration	
Installing the Drager® Incubator	
Installing the Airborne™ Stackable	
Installing the Air Sled with a Sled Receptacle	
Securing the Air Sled	
Using the Rigid Push Bars	
Installing the Base Storage Net	
Installing the Head End Storage Flat	
Cleaning	<u>82</u>
Washing Procedure	<u>82</u>
Washing Limitations	<u>62</u>
Removal of todine Compounds	
Preventative Maintenance	
Lubrication	
Regular Inspection and Adjustments	
Maintenance Record	
Training Record	
Troubleshooting Guide	<u>70</u>
Electronics and Hydraulics Locator	
Hydraulic Assembly	
Hydraulic Assembly Wiring Schematics	
Electrical System Block Diagram	
Troubleshooting Gulde	
LCD Error Codes	
Main Cable Assembly	
Main Cable Assembly Wiring Schematics	
Control Board Assembly	
Control Board Wiring Schematics	
Quick Reference Replacement Parts List	, , ,
Headsection Replacement	,
Manual Release Cable Adjustment	
Filling the Hydraulics Assembly Reservoir	
Wheel Locking Force Adjustment	
Steer-Lock Mechanism Adjustment	<u>85</u>
Cot Relaining Post Adjustment	
Cot Retaining Post Replacement	
Cot Retaining Post Screw Replacement	
Hydraulic A Valve or B Valve Replacement	
Hydraulic Manual Release Valve Replacement	<u>89</u>

Hydraulic Cylinder Replacement90
Hydraulic Hose Replacement
Terminal Block Replacement
Cot Assembly
Base Assembly
Dual Wheel Lock Option
Caster Horn Assembly
Adjustable Caster Lock Assembly
Wheel Assembly - 6060-002-010
No Stear-Lock Option
Optional Steer-Lock - 8506-038-000
Steer-Lock Subassembly, Head End
Outer Lift Tube Assembly, Base Pivot - 6500-301-021
Inner Lift Tube Assembly, Base Pivot - 6500-301-022
Inner Lift Tube, Litter Pivot - 6500-001-034
Inner Lift Tube, Litter Pivot - 8500-001-035
Outer Rail Subassembly, Right
Outer Rail Subassembly, Left
Hall Sensor Assembly
Sensor Housing Assembly
Powerplant Assembly
Hydraulic Subassembly - 6500-001-030
Foot End Assembly
Label, SMRT Power
Cross Brace Assembly
Button Assembly - 6500-101-016
Non-Power-LOAD Gempatible Option
Power-LOAD Compatible Option - 6516-144-990
Headsection - 6500-002-020
Head Section Lock Assembly - 6500-001-026
Ontional In-Pastener Shut-Off Assembly - 6500-001-027
No Headsection Oxygen Bottle Holder Option - 6506-036-000
Foot End Fastener Assembly (Power-LOAD Compatible Option)
Cot Retaining Post, Right - 6085-033-000
Airborne Side-by-Side Assembly Option - 8516-128-000.
Incubator Adaptor Assembly - Airborne Side-by-Side
Extension Assembly - 6510-001-018
Drager Assembly Option - 6516-129-000
Drager Extended Assembly Option - 6516-141-000
Incubator Adaptor Assembly - Drager
Airborne Stackable Assembly Option - 6516-127-000
Incubator Adaptor Assembly - Airborne Stackable
No Adapter Assembly Option, Air Sied - 6516-142-000

Rigid Push Bar, Foot End - 6516-040-000 / Rigid Push Bar, Head End - 6516-031-000
Head End Storage Flat - 8500-128-000
Base Storage Net - 6500-160-000
Battery Pack, SMRT - 6500-033-000
Safety Hook, Short - 6060-036-017/Safety Hook, Long - 6060-038-018/Safety Hook, J - 6092-036-018
Recycling Passport
Warranty
Stryker EMS Return Policy
Return Authorization
Damaged Merchandise
International Warranty Clause
Patent Information
EMC Information

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.

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.

6516-109-001 REV A

NOTE

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

This manual is designed to assist you with the operation and maintenance of the Stryker Power-PRO™ IT 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 6516 Power-PROTM IT is a powered incubator transport 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 a retractable head section for 360-degree mobility in any height position, four platform options for incubator system compatibility and various optional accessories that assist with transport of the patient.

INTENDED USE OF PRODUCT

The Power-PROTM IT is a powered incubator transport wheeled stretcher, which is intended to support a rigidity affixed incubator system and transport the entire body of a traumatized, ambulatory or non-ambulatory human patient while incubated. 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 provide a level patient surface at transport and working heights, 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 ib (318 kg) (sum of the patient, incubator and accessory weight) and the intended operators of the device are trained professionals including: nurses, doctors, emergency medical service and medical care center personnel, as well as medical first responders. The expected service life of the product is 7 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.

6516-109-001 REV A

SPECIFICATIONS

Safe Working Load Note: Safe Working Load Indicates the sum of the patient and accessory weight.	700 ib	318 kg
Maximum Unassisted Lift Capacity 1	500 lb	227 kg
Backrest Articulation/Shock Position	Not applicable	
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	134 lb	61 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 DC NICd - SMRT™ Power System	
Charger	120V/240V AC or 12V DC - SMRT™ Power System	
Standards (Cots and Chargers)	IEC 60601-1 CAN/CSA-C22.2 No. 601.1-M90 UL 60601-1 IEC 60601-1-2:2001 KKK-A-1822	

¹ Col loads over 300 lb (135 kg) may require additional assistance to meet the set cot load height.

Stryker reserves the right to change specifications without notice.

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

The Power-PRO™ IT 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 IT ambulance cot (model 6516) 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.

² Height measured from the top of the cot, at the center point, to ground level.

^a Cot is weighed with one battery and without incubator.

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

SPECIFICATIONS (CONTINUED)

semplifunerallistic propagation	(epataka)
Temperature	-30°F130°F (54°C) (-34°C)
Relative Humidity	0%—100%
Atmospheric Pressure	700—1060 hPa

⚠ CAUTION

- Changes or modifications to the unit not expressly approved by Stryker could void the user's authority to operate
 the system.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense.

CONTACT INFORMATION

Contact Stryker Customer Service or Technical Support at: (800) 327-0770.

Stryker Medical 3800 E. Centre Avenue Portage, MI 49002 USA

Please have the serial number (A) of your Stryker product available (as shown in Figure 1) when calling Stryker Customer Service or Technical Support, include the serial number in all written communication.

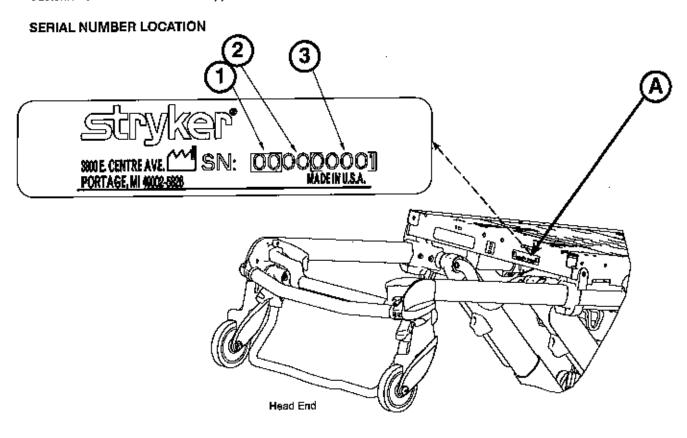


Figure 1: Cot Serial Number & Location

SERIAL NUMBER KEY

See Figure 1 and the following key for additional serial number information:

1	2-digit month
2	2 digit year
3	5 digit sequence that starts with 39000 each month

Return To Table of Contents

PRODUCT ILLUSTRATION

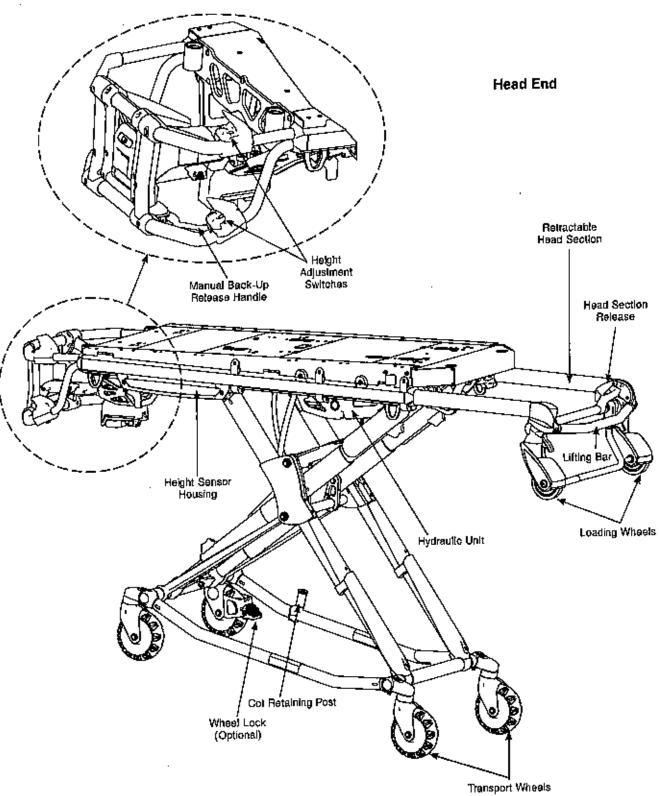


Figure 2: Cot Components

6516-109-001 REV A

Carefully read and strictly follow the warnings and cautions listed on these pages. Service only by qualified personnel.

MARNING :

- Ensure proper hand placement on hand grips. Hands should be clear of red safety ber pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- Improper usage of the cot can cause injury to the patient or operator. Operate the cot only as described in this
- Do not modify the cot or any components of the cot. Modifying the product can cause unpredictable operation resulting in injury to the patient or operator. Modifying the product also voids its warranty (see page 161).
- Any emergency vehicle to be used with this cot must have the in-fastener shut-off system installed (if not using Power-LOAD) (see page 24).
- It is the responsibility of the dot operator to ensure that the dot being used in the Stryker Cot Fastener Systems meets the installation specifications listed on page 23. Injury may result if a non-compatible cot is used in the Stryker Fastener System.
- The In-fastener shut-off must be positioned properly before placing the cot into service. Fallure to install the infastener shut-off may cause injury to the patient or operator and/or damage to the vehicle.
- Do not attempt to operate the cot when it is loaded into a cot fastener.
- The In-fastener shut-off is only a means for disabiling the electronic functionality. Damage to the product and/or injury to the patient and/or operator may occur if used for any other purpose.
- Have the vehicle safety hook installed by a certifled mechanic, improper safety hook installation can cause injury to the patient or operator and/or damage to the cot.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 26.
- The face of the safety hook that engages the safety bar should be located at least 3-3/4" from the leading edge of the door sill. After installation, verify that the cot legs lock into the load position without contacting the vehicle
- To avoid injury, verify that the safety bar has engaged the safety hook before removing the cot from the patient compartment.
- Verify that the safety hook always engages the cot safety bar regardless of how the cot is unloaded from the vehicle or injury to the patient or operator and/or damage to the cot may occur.
- The cot must have at least 5/8" of clearance between the vehicle bumper and the cot to disangage the safety bar when unloading the cot from the vehicle. Verify that the cot legs lock into the toad position before disangaging the safety bar from the safety hook. Fallure to properly lock the cot height into position can cause injury to the patient or operator and/or damage to the cot.
- To avoid risk of electric shock, never attempt to open the battery pack for any reason. If the battery pack case is cracked or damaged, do not insert it into the charger. Return damaged battery packs to a service center for recycling.
- Do not remove the battery when the cot is activated.
- Avoid direct contact with a wet battery or battery enclosure. Contact may cause injury to the patient or operator.
- Entanglement in powered cot mechanisms can cause serious injury. Operate the cot only when all persons are clear of the mechanisms.
- Inspect SMRT™ Paks for damage before every use.
- Practice changing height positions and loading the cot until operation of the product is fully understood. improper use can cause injury.
- Do not allow untrained assistants to assist in the operation of the cot. Untrained technicians/assistants can cause injury to the patient or themselves.
- Do not ride on the base of the cot. Damage to the product could occur, resulting in injury to the patient or operator.
- Transporting the cot sideways can cause the cot to tlp, resulting In possible damage to the product and/or injury to the patient or operator. Transporting the cot in a lowered position, head or foot end first, minimizes the potential of a cot tip.
- Grasping the cot improperly can cause injury. Keep hands, tingers and feet away from moving parts. To avoid in-Jury, use extreme caution when placing your hands and feet near the base tubes while raising and lowering the cot.
- Never leave a patient unattended on the cot or injury could result. Hold the cot securely while a patient is on the product.

MARNING (CONTINUED)

- Never apply the optional wheel tooks 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.
- Hydrautically raising or lowering the cot may temporarily affect electronic patient monitoring equipment. For best results, patient monitoring should be conducted when the cot is idle.
- High obstacles such as curbing, steps or rough terrain can cause the cot to tip, possibly causing injury to the
 patient or operator.
- Transporting the cot in lower positions reduces the potential of a cot tip. If possible, obtain additional assistance or take an alternate route.
- Power-LOAD is designed to be compatible with the 6085/6086 Performance-PRO XT, 6500/6516 Power-PRO™ XT, and 6510/6516 Power-PRO™ IT cots with the Power-LOAD option only. In certain situations, you can use Power-LOAD as a standard antier 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.
- Whenever the weight of the cot and patient is no longer supported by the wheels, the cot will automatically enter the high speed retract mode if the retract (-) button is pressed.
- After the weight is off of the ground, the operators must support the load of the patient, cot and any accessories.
 Failure to support the load properly may cause injury to the patient or operator.
- 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 undercardage to unfold.
- 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.
- 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 eausing injury to the patient or operator and/or damage to the cot.
- 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.
- Do not pull or lift on the safety bar when unloading the cot. Damage to the safety bar could result and injury to the patient or operator could occur.
- Do not press the extend (+) button until the safety bar has engaged the safety hook.
- To avoid injury, always verify that the head section is locked into place prior to operating the cot.
- Do not attempt to load the cot into the patient compartment 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 product.
- Never install or use a wheel lock on a cot with excessively worn wheels. Installing or using a wheel lock on a wheel
 with less than a 6" diameter could compromise the holding ability of the wheel lock, possibly resulting in injury to
 the patient or operator and/or damage to the cot or other equipment.
- These adaptors are intended for use only on the model 6516 Power-PRO™ IT cot. They are not intended for installation on any other Stryker cot or on any cot from another manufacturer. Using these adaptors on any cot other than the model 6516 Power-PRO™ IT cot may result in damage to the cot and for injury to the patient or user.
- Verify that the adaptor is properly installed on the cot and the incubator is securely fastened to the adaptor prior to use. An improperly attached adaptor or incubator may cause injury to the patient or user.
- The AirborneTM Side-by-Side Incubator adaptor (6516-128-000) is designed to secure only AirborneTM incubators to the model 6516 Power-PROTM IT cot. Using this adaptor on any cot other than the model 6516 Power-PROTM IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.

MARNING (CONTINUED)

- The Drager[®] Incubator adaptor (6516-129-000) is designed to secure only Drager[®] Incubators to the 6510 Power-PRO[™] IT cot. Using this adaptor on any cot other than the model 6516 Power-PRO[™] IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specifications changes to the Drager® (or Air-Shields® Series) incubators.
- The AirborneTM Stackable adaptor (6516-127-000) adaptor is designed to secure only an Airborne Stackable to the model 6516 Power-PROTM IT cot. Using this adaptor on any cot other than the model 6516 or using any unapproved incubators or stackables in this configuration may result in damage to the cot and/or injury to the patient or user.
- The Air Sled, no adaptor option (6516-142-000) is designed to secure incubators without an adaptor to the model 6516 Power-PRO™ IT cot. Using this configuration on any cot other than the model 6516 Power-PRO™ IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specification or option changes to Air Sled compatible incubators.
- When the optional head end storage flat is being used, ensure that it does not interfere with the operation of the retractable head section, safety bar and safety hook. Injury to the patient or operator could result.
- When cleaning, use any appropriate personal safety equipment (goggles, respirator, etc.) to avoid the risk of inhaling contagion. Use of power washing equipment can aerate contamination collected during the use of the cot.
- SOME CLEANING PRODUCTS ARE CORROSIVE IN NATURE AND MAY CAUSE DAMAGE TO THE PRODUCT
 IF USED IMPROPERLY. If the products described above are used to clean Stryker EMS equipment, measures
 must be taken to ensure the cots are wiped with clean water and thoroughly dried following cleaning. Failure to
 properly rinse and dry the cots will leave a corrosive residue on the surface of the cots, possibly causing premature
 corrosion of critical components.
- Failure to properly clean or dispose of contaminated cot components will increase the risk of bloodborne pathogens and may cause injury to the patient or operator.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure
 before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. If an accident
 occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or
 gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.
- To avoid the risk of injury, do not use bare hands to check for hydraulic leaks.
- Take special precautions regarding electromagnetic compatibility (EMC) when using medical electrical equipment like Power-PRO. Install and place Power-PRO into service according to the EMC information in this manual. Portable and mobile RF communications equipment can affect the function of Power-PRO.
- The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by Stryker as replacement parts for internal components may result in increased emissions or decreased immunity of the Power-PRO cot.
- The Power-LOAD system and the Power-PRO cot should not be used adjacent to or stacked with other equipment.
 If adjacent or stacked use is necessary, observe the Power-PRO cot to verify normal operation in the configuration in which it will be used.
- Power-PRO operates at the following frequencies: 70 125 kHz for Inductive charging and 13.56 MHz±7 kHz, Amplitude Modulated (OOK), ERP: -79.57 dBm. The Power-PRO cot may be interfered with by other equipment, even if that other equipment compiles with CISPR emission requirements.

AUTION

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- Changes or modifications to the unit not expressly approved by Stryker could void the user's authority to operate
 the system.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their expense.
- The cot can be set at any cot load height position. Establish the required cot load height before placing the cot
 Return To Table of Contents

17

CAUTION (CONTINUED)

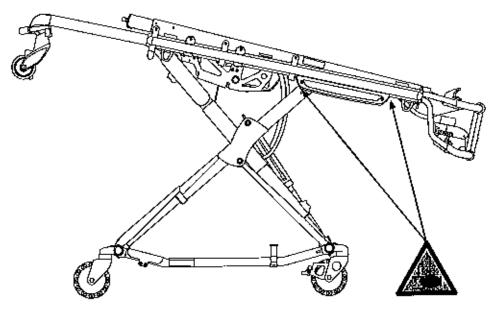
into service.

- Set the cot load height to the proper stop height prior to operation.
- Installation of the safety hook should be done by a certified mechanic familiar with ambulance vehicle construction. Consult the vehicle manufacturer before installing the safety hook and be sure that the installation of the safety hook does not damage or interfere with the brake lines, oxygen lines, fuel lines, fuel tank or electrical wiring of the vehicle.
- Only use the battery and charger as specified in the SMRT™ Power System Operations/Maintenance Manual.
- The cot is not for use with an AC adapter.
- When charging a battery in an ambulance, locate the charger in an enclosed cabinet and out of patient reach during transport.
- Ensure that the battery is fully charged prior to placing into service. An uncharged or depleted battery may cause poor cot performance.
- Before operating the cot, clear any obstacles that may interfere and cause injury to the operator or patient.
- Do not "jog" the cot past the established cot load height of the product when the safety bar engages the vehicle safety hook or damage may occur to the product.
- When unloading the cot from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.
- Remove the battery if the cot is not going to be used for an extended period of time (more than 24 hours).
- Wheel locks are only intended to help prevent the cot from rolling while unattended and to aid in patient transfer. A wheel lock may not provide sufficient resistance on all surfaces or under loads.
- The weight of the equipment in the base storage net (if equipped) must not exceed 20 lb (9 kg).
- Be careful when retracting the base to avoid damaging items stored in the base storage net.
- The weight of the equipment in the head end storage flat (if equipped) must not exceed 40 lb (18 kg).
- DO NOT STEAM CLEAN OR ULTRASONICALLY CLEAN THE UNIT.
- Maximum water temperature should not exceed 180°F/82°C.
- Maximum water pressure should not exceed 1500 psi/130.5 bar. If a hand held wand is being used to wash the unit, the pressure nozzie must be kept a minimum of 24 Inches (81 cm) from the unit.
- Allow cot to air dry.
- Towel dry all casters and interface points.
- Failure to comply with these instructions may invalidate any/all warranties.
- Always remove the battery before washing the cot.
- A preventative maintenance program should be established for all Stryker EMS equipment. Preventative maintenance may need to be performed more frequently based on the usage level of the product. Close attention should be given to safety features including, but not limited to:
 - Hydraulic power mechanism
 - All electrical controls return to off or neutral position when released.

For additional maintenance information, see the preventative maintenance information.

- Improper maintenance can cause injury or damage to the product. Maintain the cot as described in this manual. Use only Stryker approved parts and maintenance procedures. Using unapproved parts and procedures could cause unpredictable operation and/or injury and will void the product warranty (see page 161).
- Fallure to use authorized parts, lubricants, etc. could cause damage to the cot and will void the warranty of the product.
- Hydraulic lines, hoses, and connections can fail or loosen due to physical damage, kinks, age, and environment exposure. Check hoses and lines regularly to avoid damage to the cot. Check and tighten loose connections.
- Do not tip the cot onto its load wheels and actuate the product as this will allow air to enter the hydraulic system.
- Do not lubricate the bearings in the X-frame as it will degrade the performance of the cot and may void its warranty (see page 161).
- The cot retaining post is shipped preconfigured for an X-frame cot. If the cot fastener has been configured for an H-frame cot, you must adjust the cot retaining post to accommodate the cot fastener.

PINCH POINTS



WARNING: Pinch Points

Figure 3: Potential Pinch Points

WARNING

Ensure proper hand placement on hand grips. Hands should be clear of red safety bar plvots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.

Setup Procedures

Ensure that all shipping and packaging materials have been removed from the products prior to use.

Unpack the cartons and check all Items for proper operation. It is important that the cot is working properly before it Is put into service. See Figure 2 on page 14 to identify all of the cot components.

The patient compartment of the vehicle in which the cot will be used must have a:

- Smooth rear edge for cot leading
- Level floor large enough for the folded cot
- Stryker Model 6370/6377/6378/6379 or 6371 Cot Fastener System or Stryker Model 6390 Power-LOAD (not included)
- In-fastener shut-off module installed and positioned properly (if not using Power-LOAD) (see page 24)
- Space to properly install the safety hook

Note: Loose items or debrts on the patient compartment floor can interfere with the operation of the safety hook and cot fastener. Keep the patient compariment floor clear.

When necessary, modify the vehicle to fit the cot. Do not modify the cot.

₩ARNING

- improper usage of the cot can cause injury to the patient or operator. Operate the cot only as described in this manual.
- Do not modify the cot or any components of the cot. Modifying the product can cause unpredictable operation resulting in injury to the patient or operator. Modifying the product also voids its warranty (see page 181).
- Any emergency vehicle to be used with this cot must have the in-fastener shut-off system installed (if not using Power-LOAD) (see page 24).

Note:

- This manual should be considered a permanent part of the cot and should remain with the product even if the cot is subsequently sold.
- Stryker continually seeks advancements in product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your cot and this manual. If you have any questions, please contact Stryker Customer Service or Technical Support at (800) 327-0770.

Setup Procedures

SETTING COT LOAD HEIGHT AND "JOG" FUNCTION

The cot control mechanism uses height sensors to set the load height stop for the cot. These height sensors match the load wheel height for a specific ambulance deck height.

The cot load height can be set from 26" to 36" (66 cm to 91 cm) as measured from the ground to the bottom of the load wheel. Determine the cot load height before placing the cot into service. You can modify the cot load height at any time, but you must determine and set the cot load height before the cot is placed into service.

To set the cot load height:

- Locate the sensor housing on the patient right side of the cot as shown in Figure 4.
- Using a T27 Torx driver, remove the sensor housing cover by loosening the two (2) screws (one on each end) as shown in Figure 5.
- Adjust the left height sensor only as shown in Figure 6.
 - a. Move the sensor to the left to increase the set load height or move the sensor to the right to decrease the set load height.
 - b. Press the retract (-) button to lower the cot to its lowest position, then press the extend (+) button to raise the cot to its highest set load height.
 - c. Measure the cot height from the bottom of the load wheels to the floor.

Note: Add an additional 1/2" (1,3 cm) to your deck height measurement to allow for variations with patient height and other equipment added to the cot.

- Repeat steps 3a and 3b until the desired cot load height is reached.
- 4. After the proper load wheel height is set, ensure that all of the height sensor cables are secure and lying flat inside of the housing between the sensors as shown in Figure 7.
- Using a T27 Torx driver, replace the sensor housing cover by reinstalling the two screws that were removed in step 2.
- Following completion of the sensor height adjustment, verify that the cot properly engages the safety hook.

↑ CAUTION

The cot can be set at any cot load height position. Establish the required cot load height before placing the cot into service.



Figure 4: Sensor Housing



Figure 5: Loosening Screws



Figure 6: Adjusting Height



Figure 7: Securing Cables

Cot Fastener Installation

Note: The Cot Fastener Installation instructions on page 22 through page 24 are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/ Maintenance Manual for Installation Instructions.

The Stryker Cot Fastener Systems are designed to be compatible only with cots which conform to the installation specifications listed on page 23.

WARNING

it is the responsibility of the cot operator to ensure that the cot being used in the Stryker Cot Fastener Systems meets the Installation specifications listed on page 23. Injury may result if a non-compatible cot is used in the Stryker Fastener System.

Note: Adjustment of the rall clamp assembly may be required in order to compensate for any variation in the cot retaining post position depending on the cot manufacturer and model number.

For more information about the Stryker Cot Fastener Systems, see the Cot Fastener Operations/Maintenance Manual.

Note: These Installation instructions are intended for cots with cot fastener systems (NOT Power-LOAD). For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for installation instructions.

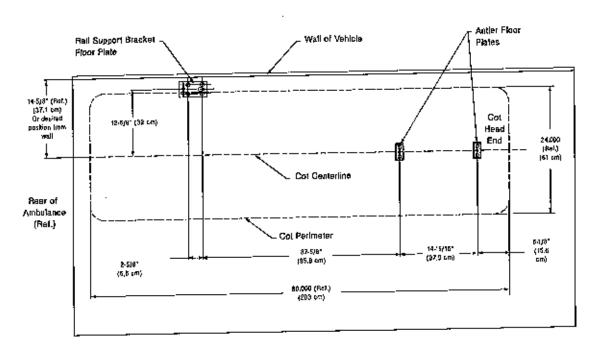


Figure 8: Installation Specifications - Floor Mount Fastener

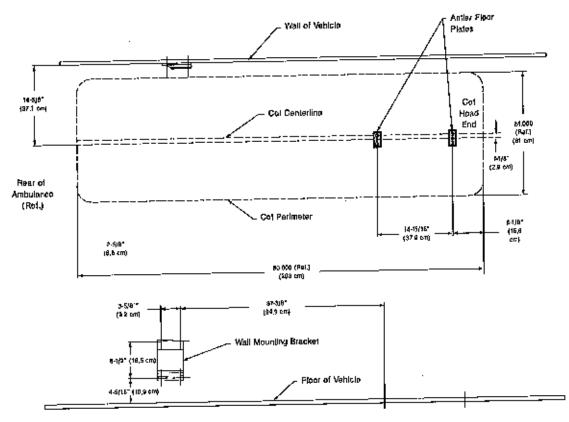


Figure 9: Installation Specifications - Wall Mount Festener

Return To Table of Contents

Cot Fastener Installation

INSTALLING THE IN-FASTENER SHUT-OFF

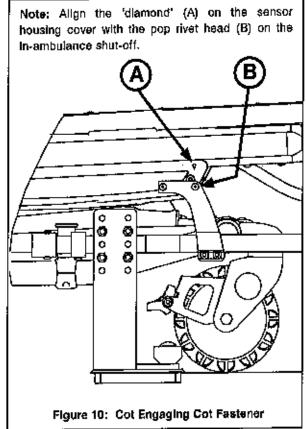
Note: These Installation instructions are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/ Maintenance Manual for installation instructions.

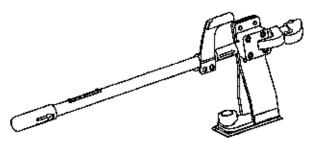
WARNING

The in-fastener shut-off must be positioned properly before placing the cot into service. Failure to install the in-fastener shut-off may cause injury to the patient or operator and/or damage to the vehicle.

The cot and fastener system have an Integrated in-fastener shut-off function that disables the cot motor when the cot is secured into the cot fastener. Securely tighten the bolts on the fastener before installing the shut-off bracket. Install the shut-off bracket onto the rail clamp assembly before putting the cot into service.

- 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).
- Roll the cot to the open door of the patient compartment.
- Push the cot forward until the load wheels are on the compartment floor and the safety bar passes the safety hook.
- For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
- Raise the base and push the cot into the patient compartment following the appropriate loading instructions.
- Engage the extended head section of the cot into the cot fastener antier and secure the cot post into the fastener rail clamp.
- Adjust the shut-off bracket along the rail clamp until the "dlamond" (A) on the sensor housing is lined up with the pop rivet head (8) as shown in Figure 10.
- Using a T27 Torx driver, securely fasten the bolts to attach the shut-off bracket to the rail clamp assembly.
- Press the retract (-) button to ensure that the motor does not turn on while the cot is in the fastener. The battery indictor will still illuminate. If the motor turns on, readjust the shut-off bracket.





Flaure 11: In-Festener Shut-Off Module

MARNING

- Do not attempt to operate the cot when it is loaded into a cot fastener.
- The in-fastener shut-off is only a means for disabling the electronic functionality. Damage to the product and/or injury to the patient and/or operator may occur if used for any other purpose.
- Any emergency vehicle to be used with this cot must have the in-fastener shut-off system installed (if not using Power-LOAD).

Vehicle Safety Hook Selection

Note: The Vehicle Safety Hook Selection and Installation instructions on page 25 through page 28 are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for installation instructions. Power-LOAD ships and is installed with its own safety hook, thus no additional hook is needed.

The vehicle safety hook is a device that ships with the cot. The cot safety bar and vehicle safety hook are designed to keep the cot from being accidentally removed from the vehicle and to provide increased operator assurance and confidence when loading and unloading. The safety hook was designed for compatibility and proper operation when loading and unloading the cot from a vehicle that is compliant with Federal Regulation KKK-A-1822.

Stryker offers three different types of safety hooks that are ordered and shipped with your cot. These safety hook types are designed to meet the needs of various emergency vehicle configurations, specifically the length and location of the floor structure support that is located in the rear of the vehicle.

Consider the following information when selecting which safety hook is appropriate for your vehicle configuration:

- Determine the location of the floor structure support where there is adequate room to mount the safety hook.
- Ensure that the safety hook can be securely mounted into the back of the vehicle while providing adequate bumper clearance to allow the cot to be loaded and unloaded from the vehicle.
- Note the differences in vehicle design. Each safety hook provides a different mounting location option to maintain the appropriate distance between the face of the safety hook and the edge of the door sill.

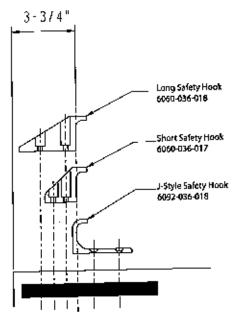


Figure 12: Safety Hook Types

Due to the differences in vehicle dimensions and the floor structure support locations, each safety hook requires a different mounting location. See "Vehicle Safety Hook Installation" to determine the correct positioning for safety hook installation.

Note: When replacing an existing safety hook with a new style, adjust the mounting location to maintain the proper position of the safety hook face.

Vehicle Safety Hook Installation

Note: These installation instructions are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for Installation instructions.

VEHICLE CONFIGURATION

According to federal regulations (reference KKK-A-1822), the bumper height of the vehicle shall be installed equidistant \pm 5 cm (2 inches) from the vehicle floor to the ground level, which is defined as the vehicle deck height. The bumper step shall have a minimum depth of 13 cm (5 inches) and a maximum depth of 25 cm (10 inches). If the bumper depth is greater than 18 cm (7 inches), then the bumper must be able to fold. Installation of the safety hook into any vehicle compliant with this federal specification provides adequate clearance for the cot base to lower to its fully extended position. The cot is compatible with all vehicle deck heights (see specifications for maximum load height) as long as the vehicle meets the federal specifications that are outlined in KKK-A-1822.

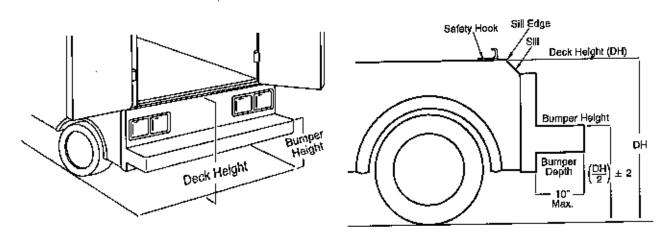


Figure 13: Vehicle Deck Height

Flaure 14: Vehicle Deck Height

- Set the cot load height to the proper stop height prior to operation.
- Installation of the safety hook should be done by a certified mechanic familiar with ambulance vehicle construction. Consult the vehicle manufacturer before installing the safety hook and be sure that the installation of the safety hook does not damage or interfere with the brake lines, oxygen lines, fuel lines, fuel tank or electrical wiring of the vehicle.

REQUIRED HARDWARE FOR INSTALLATION OF THE SAFETY HOOK (NOT SUPPLIED)

- (2) Grade 5, Minimum 1/4"-20 Socket Head Cap Screws* for the short or long safety hook
- (2) Grade 5, Minimum 1/4"-20 Flat Socket Head Cap Screws* for the J hook
- (2) Flat Washers
- (2) Lock Washers
- (2) 1/4"-20 Nuts
- * The length of the socket head cap screws depends on the thickness of the vehicle floor. Use screws that are long enough to go completely through the patient compartment floor, washer and nut by at least two full threads.

Vehicle Safety Hook Installation

Note: These installation instructions are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for installation instructions.

WARNING

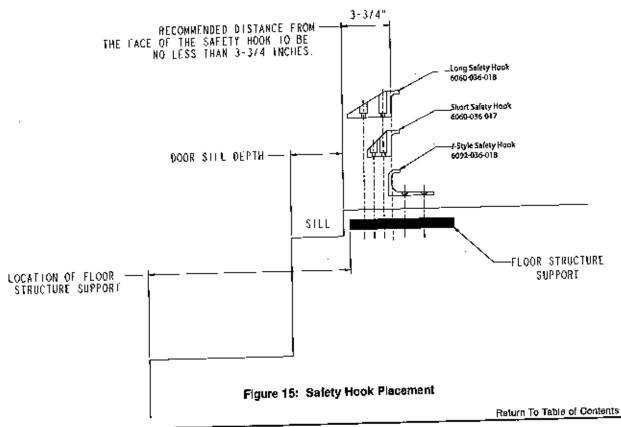
- Have the vehicle safety hook installed by a certified mechanic. Improper safety hook installation can cause injury to the patient or operator and/or damage to the cot.
- Fallure to Install the safety hook can cause injury to the patient or operator.
- The face of the safety hook that engages the safety bar should be located at least 3-3/4" from the leading edge of the door slil. After installation, verify that the cot legs lock into the load position without contacting the vehicle
- To avoid injury, verify that the safety bar has engaged the safety hook before removing the cot from the patient compartment.

Note: Stryker recommends that, prior to installation, the certified mechanic plan the placement of the safety hook in the rear of the vehicle.

Before installing the safety hook into your vehicle, check the front to back and side to side positioning when unloading and loading the cot to ensure that the safety hook will be installed properly. The cot safety bar must engage the safety hook every time, regardless of cot position.

FRONT TO BACK POSITIONING OF THE SAFETY HOOK

- Select the appropriate safety hook for your vehicle configuration.
- Position the safety hook at least 3-3/4" from the leading edge of the door sill.
- Ensure that the safety hook can be securely mounted into the back of the vehicle while providing adequate bumper clearance to allow the cot to be loaded and unloaded from the vehicle.
- 4. See "Side to Side Positioning of the Safety Hook" to confirm the side to side placement.



Vehicle Safety Hook Installation

Note: These installation instructions are intended for cots that you will NOT use with Power-LOAD. For Model 6518 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for Installation Instructions.

SIDE TO SIDE POSITIONING OF THE SAFETY HOOK

- Remove the cot from the fastener and unload it from the vehicle.
- While the cot is being removed, note the position of the load wheels and the safety bar.
- Mark the center of the cot safety bar on the vehicle floor.
- 4. Verify that the position marked in Step 3 is where the safety bar engages the safety hook every time when unloading the cot in a variety of positions (all the way to the left and all the way to the right), regardless of cot position.
 - If the cot safety bar does not engage the safety hook in any of these positions (left, center, or right), modify the vehicle, not the cot or safety hook.
 - If the cot safety bar engages the safety hook every time, Install the safety hook.

INSTALLING THE SAFETY HOOK

- 1. Determine the correct safety hook front to back and side to side positioning, so the cot safety bar engages the safety hook every time.
- Drill the holes for the screws.
- 3. Fasten the safety hook to the patient compartment floor and verify that the safety hook always engages the cot safety bar regardless of how the cot is unloaded from the vehicle.

∰ WARNING

- Verify that the safety hook always engages the cot safety bar regardless of how the cot is unloaded from the vehicle or injury to the patient or operator and/or damage to the cot may occur.
- The cot must have at least 5/8" of clearance between the vehicle bumper and the cot to disengage the safety bar when unloading the cot from the vehicle. Verify that the cot legs lock into the load position before disengaging the safety ber from the safety hook. Fallure to properly lock the cot height into position can cause injury to the patient or operator and/or damage to the cot.

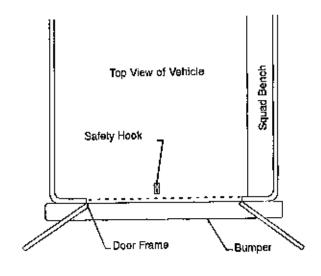


Figure 16: Safety Hook Placement (For Reference Only)

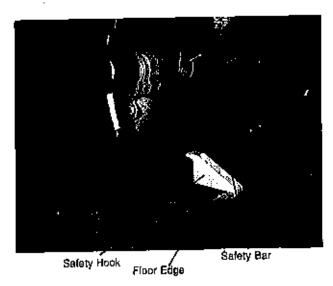


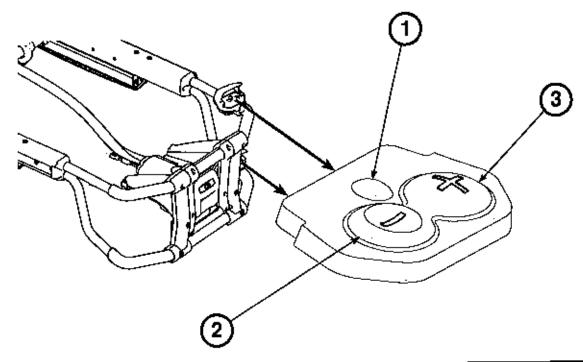
Figure 17: Safety Bar Engaging Safety Hook

Power-PRO Cot User Controls

USING THE COT CONTROL SWITCHES

There are two identical cot control switches located on the Power-PRO cots. Press the buttons on either of these switches to extend the cot, retract the cot, or release the cot from Power-LOAD (if applicable).

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



Ref	Name	Description	Description (with use of Power-LOAD)
1	Release	Not applicable	Press to unlock the cot from Power-LOAD
2	Retract (-)	Press and hold to lower the litter or retract the cot undercarriage when loading	Press and hold to fully retract the cot undercarriage
3	Extend (+)	Press and hold to raise the litter or extend the cot undercarriage when loading	Press and hold to fully extend the cot undercarriage

Power-PRO Cot User Controls

CHECKING THE COT BATTERY POWER LEVEL

To check the battery power level, press the retract (-) button (A) as shown in Figure 18 on the cot control switch to activate the cot battery LED indicator (B) as shown in "Figure 19: Foot End Control Enclosure" on page 31.

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

- The LED is solld 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.

the SMRT™ Power System Operations/ Maintenance Manual for additional SMRT™ Pak and SMRT** Charger information.

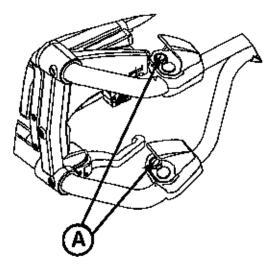


Figure 18: Retract Button - Control Switch

Notes:

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

M WARNING

- To avoid risk of electric shock, never attempt to open the battery pack for any reason. If the battery pack case is cracked or damaged, do not insert it into the charger. Return damaged battery packs to a service center for recycling.
- Do not remove the battery when the cot is activated.
- Avoid direct contact with a wet battery or battery enclosure. Centact may cause injury to the patient or operator.

- Only use the battery and charger as specified in the SMRT™ Power System Operations/Maintenance Manual.
- The cot is not for use with an AC adapter.
- When charging a battery in an ambulance, locate the charger in an enclosed cabinet and out of patient reach during transport.
- Ensure that the battery is fully charged prior to placing into service. An uncharged or depleted battery may cause poor cot performance.

Power-PRO Cot User Controls

CHECKING THE HOUR METER/LCD ERROR DISPLAY

The hour meter (C), located on the foot end control enclosure, indicates the amount of time (BHH.H hours) that the hydraulics have been activated as shown in Figure 19. You can use the hour meter to determine the frequency for preventative maintenance procedures as listed on page 64.

The error display (C), located on the foot end control enclosure, provides error code information for troubleshooting. See "LCD Error Codes" on page 77.

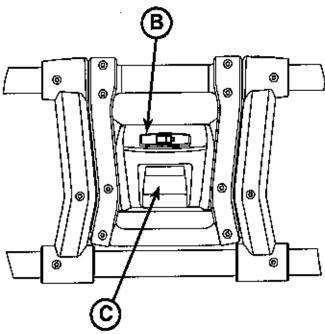


Figure 19: Foot End Control Enclosure

OPERATING GUIDELINES

- Use the cot only as described in this manual.
- Read all labels and instructions on the cot before using the cot.
- Before first and every use, inspect the SMRT™ Pak housing and terminal area for cracks and/or damage.
- Loading or unloading 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. If additional assistance is needed, see "Using Additional Assistance" on page
- 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.
- The cot can be transported in any position. 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 looks engaged while transporting the cot. Failure to do so may cause wheel damage.
- 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
- Entanglement in powered cot mechanisms can cause serious injury. Operate the cot only when all persons are clear of the mechanisms.
- Inspect SMRT™ Paks for damage before every use.
- Practice changing height positions and loading the cot until operation of the product is fully understood. Improper use can cause injury.
- Do not allow untrained assistants to assist in the operation of the cot. Untrained technicians/assistants can cause injury to the patient or themselves.
- 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.
- Do not ride on the base of the cot. Damage to the product could occur, resulting in injury to the patient or operator.
- 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. Transporting the cot in a lowered position, head or foot end first, minimizes the potential of a cot tip.
- Grasping the cot improperly can cause injury. Keep hands, fingers and feet away from moving parts. To avoid injury, use extreme caution when placing your hands and feet near the base tubes while raising and lowering the
- Any emergency vehicle to be used with this cot must have the in-fastener shut-off system installed (If not using Power-LOAD) (see page 24).

↑ 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 (wisting:
- Always operate the cot as described in this manual.

ROLLING THE COT

When rolling the cot:

- Position an operator at the foot end and one at the head end of the cot at all times when rolling the cot with a patient on It.
- Approach door sills and/or other low obstacles squarely and lift each set of wheels over the obstacle separately.

- Never leave a patient unattended on the cot or injury could result. Hold the cot securely while a patient is on the
- Never apply the optional 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.
- Hydraulically raising or lowering the cot may temporarily affect electronic patient monitoring equipment. For best results, patient monitoring should be conducted when the cot is idle.
- High obstacles such as curbing, steps or rough terrain can cause the cot to tip, possibly causing injury to the patient or operator.
- Transporting the cot in lower positions reduces the potential of a cot tip. If possible, obtain additional assistance or take an alternate route.

33

ADJUSTING THE HEIGHT OF THE COT

⋒ WARNING

- Grasping the cot improperly can cause injury. Keep hands, fingers and feet away from moving parts. To avoid injury, use extreme caution when placing your hands and feet near the base tubes while raising and lowering the cot.
- 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.

You can raise or lower an unoccupied cot with one operator. If a patient is on the cot, a minimum of two (2) trained operators (one located at each end of the cot) are required to raise or lower the of the cot.

To raise or lower an unoccupied cot:

1. Operator 1 (Foot End) - Grasp the cot frame at the foot end and press either the extend (+) button on the control switch to raise the litter or the retract (-) button on the control switch to lower the litter to the desired position.

To raise or lower the cot with a patient:

- 1. Operator 1 (Foot End) Grasp the cot frame at the foot end and press either the extend (+) button on the control switch to raise the litter or the retract (-) button on the control switch to lower the litter to the desired position.
- 2. Operator 2 (Head End) Maintain a firm grip on the outer rall until the cot is securely in the desired position.

Note: If the extend (+) button on the control switch remains activated after reaching the set load height, the motor will remain halted until the operator releases the button. After the button is released, press the extend (+) button again to "log" the cot height up further.

/ CAUTION

Do not "jog" the cot past the established cot load height of the product when the safety bar engages the vehicle safety hook or damage may occur to the product.

LOADING OR UNLOADING THE COT

The cot loading and unloading Instructions on page 35 through page 48 are Intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for loading and unloading instructions.

LOADING OR UNLOADING THE COT WITH THE POWER-LOAD OPTION

The Model 6516 Power-PRO™ IT cot is fully compatible with the Model 6390 Power-LOAD system if it is ordered with the Power-LOAD option or compatibility kit (6516-700-001).

For more information about using your Power-LOAD compatible cot, see the Power-LOAD Operations/Maintenance Manuel.

WARNING

- Power-LOAD is designed to be compatible with the 6085/6086 Performance-PRO XT, 6500/8516 Power-PRO XT, and 6510/6516 Power-PRO** IT cots with the Power-LOAD option only. In certain situations, you can use Power-LOAD as a standard antier 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.

HIGH SPEED RETRACT/EXTEND

The cot is equipped with a high-speed retract mode to expedite toading/untoading the cot into and out of a vehicle.

- The undercarriage rapidly retracts toward the highest position once the weight of the cot and patient is no longer supported by the wheels. Press the retract (-) button to actuate the control switch.
- The undercarriage rapidly extends toward the lowest position once the weight of the cot and patient is no longer supported by the wheels. Press the extend (+) button to actuate the control switch.

WARNING

- Whenever the weight of the cot and patient is no longer supported by the wheels, the cot will automatically enter the high speed retract mode if the retract (-) button is pressed.
- After the weight is off of the ground, the operators must support the load of the patient, cot and any accessories.
 Failure to support the load properly may cause injury to the patient or operator.

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 26.

To load the cot into a vehicle with two operators:

- 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).
- Lift the vehicle bumper to the raised position (if equipped).
- Roll the cot to the open door of the patient compartment.
- 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 20.
- For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
- Operator 2 Verify that the safety bar engages the safety hook.

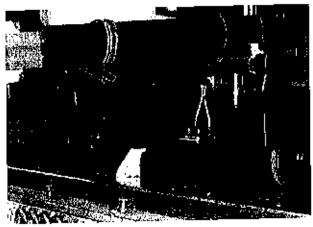


Figure 20: Safety Bar Engaging Safety Hook

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.
- Operator 1 Press the retract (-) button until the undercarriage of the cot retracts fully.

- 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 until the undercarriage of the cot retracts fully.
- Operator 2 Securely grasp the cot outer rail to stabilize the cot during retraction.
- 9. Both Operators -- Push the cot into the patient compartment until the cot engages the cot fastener (not included).

<u></u> ₩ARNING

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:

- Place the cot into a loading position (any position where the load wheels of the head section meet the vehicle floor height).
- Lift the vehicle bumper to the raised position (if equipped).
- Roll the cot to the open door of the patient compartment.
- Push the cot forward until the load wheels are on the patient compartment floor and the safety bar passes the safety hook.
- For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
- 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 21).
- Push the cot into the patient compartment until the cot engages the cot fastener (not included).



Figure 21: Press the Retract Button

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.

UNLOADING THE COT FROM A VEHICLE WITH TWO OPERATORS - POWERED METHOD

Unloading an occupied cot from 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 occupted.
- 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
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as
- To avoid injury, verify that the safety bar has engaged the safety hook before removing the cot from the patient
- Do not pull or lift on the safety bar when unloading the cot. Damage to the safety bar could result and injury to the patient or operator could occur.
- Do not press the extend (+) button until the safety bar has engaged the safety hook.

To unload the cot from a vehicle with two operators:

- Lift the vehicle bumper to the raised position (if equipped).
- 2. Disengage the cot from the cot fastener. (For more information about the cot fastener, see page 23).
- 3. Unload 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. Pull the cot out of the patient compartment until the safety bar engages the safety hook.
- Both Operators Verify that the safety bar engages the safety hook.
- Operator 1 -- Depress the extend (+) button to lower the undercarriage to its fully extended position.

Note: You can use the manual release or a combination of the manual release followed by the extend (+) button. If the extend (+) button is used, you must ensure that the manual release is fully engaged before pressing the extend (+) button.

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

- Operator 1 Grasp the cot frame at the foot end. Pull the cot out of the patient compartment until the safety bar engages the safety hook.
- Operator 2 Verify that the safety bar engages the safety hook.
- Operator 2 Stabilize the cot during the unloading operation by securely grasping the outer rail.
- Operator 1 Depress the extend (+) button to lower the undercardage to its fully extended position.

Note: You can use the manual release or a combination of the manual release followed by the extend (+) button. If the extend (+) button is used, you must ensure that the manual release is fully engaged before pressing the extend (+) button.

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UNLOADING THE COT FROM A VEHICLE WITH TWO OPERATORS - POWERED METHOD (CONTINUED)

- Operator 2 Pull the safety bar release lever forward to disengage the safety bar from the safety hook in the patient compartment as shown in Figure 22.
- Remove the load wheels from the patient compartment of the vehicle.

A CAUTION

- When unloading the cot from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.
- Do not "jog" the cot past the established cot load height of the product when the safety bar engages the vehicle safety hook or damage may occur to the product.

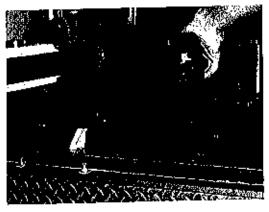


Figure 22: Disengaging the Safety Bar

UNLOADING AN EMPTY COT FROM A VEHICLE WITH ONE OPERATOR - POWERED METHOD

Unloading an unoccupied cot from a vehicle can be accomplished by a single operator.

₩ARNING

- The one person loading and unloading precedures are for use only with an empty cot. Do not use the procedures when loading or unloading a patient, injury to the patient or operator could result.
- Do not pull or lift on the safety bar when unloading the cot. Damage to the safety bar could result and injury to the patient or operator could occur.
- 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 unload an empty cot from a vehicle with one operator:

- 1. Lift the vehicle bumper to the raised position (if aquipped).
- 2. Disengage the cot from the cot fastener. (For more information about the cot fastener, see page 23).
- Grasp the cot frame at the foot end.
- 4. Pull the cot from the vehicle until the safety bar engages the safety hook.
- 5. Depress the extend (+) button to lower the undercarriage to its fully extended position as shown in Figure 23.
- 6. Disengage the safety bar from the safety hook by pulling the safety bar release lever forward and roll the cot out of the vehicle.
- Remove the load wheels from the patient compartment of the vehicle.



Figure 23: Press the Extend Button

↑ CAUTION

- When unloading the cot from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.
- Do not "jog" the cot past the established cot load height of the product when the safety bar engages the vehicle safety hook or damage may occur to the product.

USING THE MANUAL OVERRIDE

In the event of loss of electrical function, the cot is equipped with a manual override to allow manual operation of the product until electrical functionality is restored. You can use the red manual back-up release handle to raise or lower the cot.

The red manual back-up release handle (A) is located along the patient left side of the lower lift bar at the foot end of the cot as shown in Figure 24.

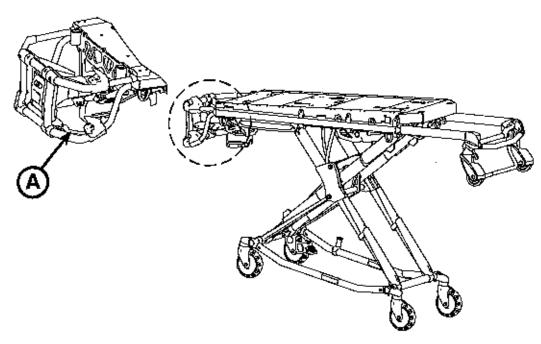


Figure 24: Manual Back-Up Release Handle

To raise or lower the cot with the manual back-up release handle:

- Both Operators Lift the cot during the raise/lower operation to support the weight of the cot at each end.
- Operator 1 (Foot End) Pull the manual back-up release handle toward the lift bar. While the manual back-up release handle is pulled, raise or lower the cot to the desired position and then release the handle to look the cot Into position.

Notes:

- The operators must lift the cot weight slightly off of the wheels to use the manual extend or retract while a patient
- Activation of the manual back-up release handle may cause the cot to lower slowly if less than 50 lb (23 kg) are on the cot.
- Hydraulic fluid will become more viscous when the cot is used for extended periods in cold temperatures. When using the manual back-up release function to extend the base during unloading in cold weather conditions, hold the release handle for approximately one second after the cot wheels touch the ground to minimize sagging of the litter as the cot is removed from the ambulance.

LOADING THE COT INTO A VEHICLE WITH TWO OPERATORS - MANUAL 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 most 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 untoading 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.
- Fallure to Install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 26.

To load the cot into a vehicle with two operators using the manual back-up release handle:

- Place the cot in a loading position (any position where the load wheels 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 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.

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

- 6. Operator 2 Verify that the safety bar engages the safety hook.
- Operator 1 Grasp the cot frame at the foot end. Lift
 the foot end of the cot until the weight is off of the cot
 base. Squeeze and hold the release handle as shown
 in Figure 25.
- 8. Operator 2 Stabilize the cot by placing your hand on the outer rail. Grasp the base frame. After the foot end operator has lifted the cot and squeezed the release handle, raise the undercarriage until it stops in the highest position and hold it there.
- Both Operators Push the cot into the patient compartment, engaging the cot fastener (not included).

Note: When operating the manual back-up release handle, avoid rapid lifting or lowering of the base or movement may appear sluggish; lift with a slow constant motion.

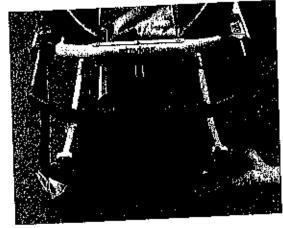


Figure 25: Manual Back-up Release Handle

UNLOADING THE COT FROM A VEHICLE WITH TWO OPERATORS - MANUAL METHOD

Unloading an occupied cot from 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 white 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 26.
- To avoid injury, verify that the safety bar has engaged the safety hook before removing the cot from the patient
- Do not pull or lift on the safety bar when unloading the cot. Damage to the safety bar could result and injury to the patient or operator could occur.
- Do not press the extend (+) button until the safety bar has engaged the safety hook.

To unload the cot from a vehicle with two operators:

- Lift the vehicle bumper to the raised position (if equipped).
- 2. Disengage the cot from the cot fastener. (For more information about the cot fastener, see page 23).
- 3. Unload 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.
- Operator 1 Pull the manual back-up release handle to lower the undercarriage to its fully extended position. Pull the cot out of the patient compartment until the safety bar engages the safety hook.
- Operator 2 Verify that the safety bar engages the safety hook.

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

- Operator 1 Grasp the cot frame at the foot end. Pull the manual back-up release handle to lower the undercarriage to its fully extended position. Pull the cot out of the patient compartment until the safety bar engages the safety hook.
- Operator 2 Verify that the safety bar engages the safety hook.
- Operator 2 Stabilize the cot during the unloading operation by securely grasping the outer rail.

UNLOADING THE COT FROM A VEHICLE WITH TWO OPERATORS - MANUAL METHOD (CONTINUED)

- Operator 2 Pull the safety bar release lever forward to disengage the safety bar from the safety hook in the patient compartment (Figure 26).
- Remove the load wheels from the patient compartment of the vehicle.

⚠ CAUTION

When unloading the cot from the patient compartment, ensure that the easter wheels are salely set on the ground or damage to the product may occur.

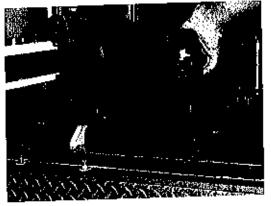


Figure 25: Disengaging the Safety Bar

UNLOADING AN EMPTY COT FROM A VEHICLE WITH ONE OPERATOR - MANUAL METHOD

Unloading an unoccupied cot from a vehicle can be accomplished by a single operator.

MARNING

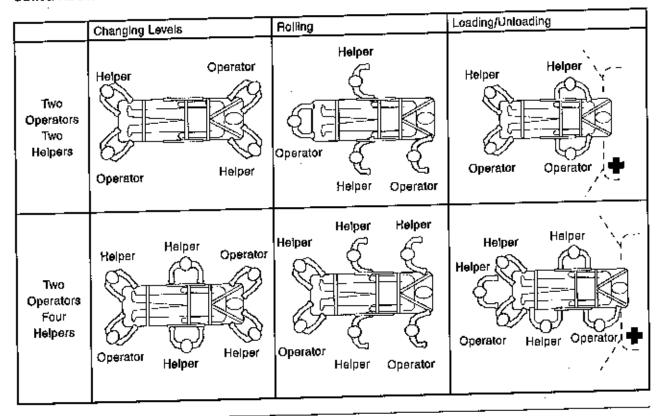
- The one person loading and unloading procedures are for use only with an empty cot. Do not use the procedures when loading or unloading a patient. Injury to the patient or operator could result.
- Do not pull or lift on the safety bar when unloading the cot. Damage to the safety bar could result and injury to the patient or operator could occur.
- 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 unload an empty cot from a vehicle with one operator:

- Lift the vehicle bumper to the raised position (if equipped).
- 2. Disengage the cot from the cot fastener. (For more information about the cot fastener, see page 23).
- Grasp the cot frame at the foot end.
- 4. Pull the cot from the vehicle until the safety bar engages the safety hook.
- 5. Pull the manual back-up release handle to lower the undercarriage to its fully extended position.
- 6. Disengage the safety bar from the safety book by pulling the safety bar release lever forward and roll the cot out of the vehicle.
- Remove the load wheels from the patient compartment of the vehicle.

When unloading the cot from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.

USING ADDITIONAL ASSISTANCE



M WARNING

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.

HEMOVING AND REPLACING A SMRT™ PAK

The cot is supplied with two removable 24V SMRT™ Paks as the power source.

See the SMRT™ Power System Operations/Maintenance Manual for additional SMRT™ Pak and SMRT™ Charger Information.

MARNING

- To avoid risk of electric shock, never attempt to open the battery pack for any reason. If the battery pack case is cracked or damaged, do not insert it into the charger. Return damaged battery packs to a service center for recycling.
- Do not remove the battery when the cot is activated.
- Avoid direct contact with a wet battery or battery enclosure. Contact may cause injury to the patient or operator.

To remove the SMAT™ Pak:

- Press the red one hand release button (C) or press the battery release button (A) to release the SMRT™ Pak (B) from the cot as shown in Figure 27.
- Slide the released SMRT™ Pak out of the enclosure.

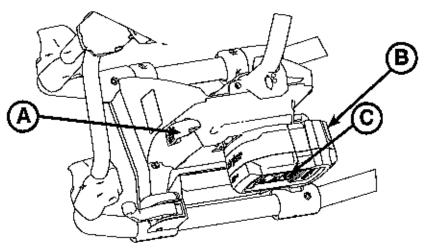


Figure 27: SMRT™ Pak Removal and Replacement

To reinstall or replace the SMRT™ Pak:

- Align the tabs in the battery enclosure.
- Push the SMRT™ Pak into the enclosure until the latch clicks into place.
 - The cot power indicator LEO is solld green if the SMRT™ Pak is charged and ready.
 - The cot power indicator LED flashes amber if the SMRT™ Pak needs to be recharged or replaced.

Note: Batteries slowly lose power when not on the charger.

Remove the battery if the cot is not going to be used for an extended period of time (more than 24 hours).

Return To Table of Contents

OPERATING THE RETRACTABLE HEAD SECTION

The head section telescopes from a first position suitable for loading the cot into an emergency vehicle to a second position retracted within the litter frame. When retracted, the cot can roll in any direction on the caster wheels even in the lowest position, allowing for improved mobility and maneuverability.

To extend the head section:

- Grasp the outer rail with one hand for support and pull the handle (A), rotating the handle toward the head end of the cot to release the head section from the locked position.
- White holding the handle (A) in the released position, pull the head section away from the litter frame, lengthening the head section until it engages in the fully extended position.
- Release handle (A) to lock the head section in the extended position.

To retract the head section:

- Grasp the outer rail with one hand for support and release the handle (A), rotate the handle toward the head end of the cot to release the head section from the locked position.
- White holding the handle (A) in the released position, push the head section toward the litter frame, retracting the head section until it engages in the retracted position.
- Release handle (A) to lock the head section in the retracted position.

MARNING

- To avoid injury, always verify that the head section is locked into place prior to operating the cot.
- Do not attempt to load the cot into the patient compartment
 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 product.

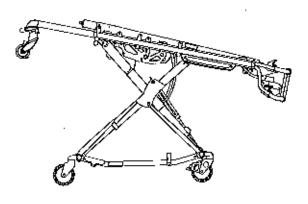


Figure 28: Head Section Extended

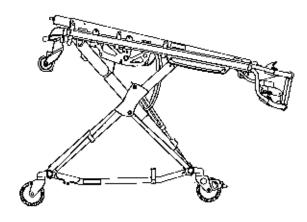


Figure 29: Head Section Retracted

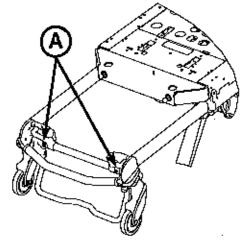


Figure 30: Head Section Release Handles

OPERATING THE OPTIONAL WHEEL LOCKS

To activate the optional wheel locks, press fully down on the pedal (A) as shown in Figure 31 until it stops and is resting firmly against the surface of the wheel.

To release the optional wheel locks, depress the upper face of the pedal with your foot or lift up with your toe under the pedal. The upper portion of the pedal will rest against the caster frame when the wheel lock is released.

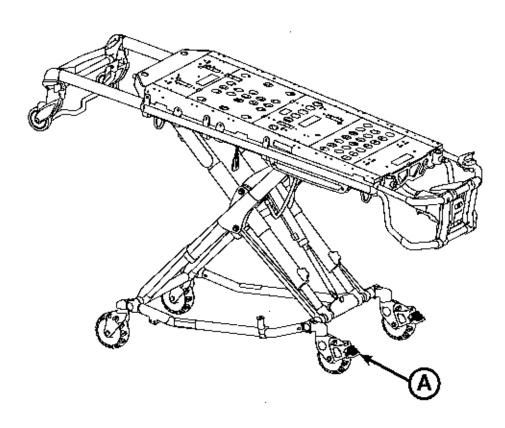


Figure 31: Wheel Lock

MARNING

- Never apply the optional wheel locks while a patient is on the cot. Tipping could occur if the cot is moved while a
 wheel lock is applied, resulting in injury to the patient or operator and/or damage to the cot.
- Never leave a patient unattended on the cot or injury could result. Hold the cot securely while a patient is on the cot.
- Never install or use a wheel lock on a cot with excessively worn wheels. Installing or using a wheel lock on a wheel
 with less than a 6" diameter could compromise the holding ability of the wheel lock, possibly resulting in injury to
 the patient or operator and/or damage to the cot or other equipment.

⚠ CAUTION

Wheel locks are only intended to help prevent the cot from rolling while unattended and to aid in patient transfer. A wheel lock may not provide sufficient resistance on all surfaces or under loads.

Return To Table of Contents

OPERATING THE OPTIONAL STEER-LOCK

To activate steer-tock from the cot foot or head end:

- From the cot foot end, press the red (lock) side of the foot pedal as shown in Figure 32 or from the cot head end, press down on either red pedal as shown in Figure 33.
- Rotate the cot until at least one head end caster is locked.

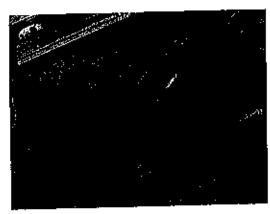


Figure 32

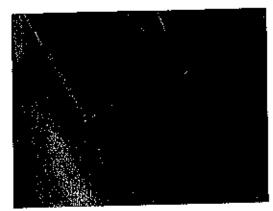


Figure 33

To deactivate steer-lock from the cot foot or head end:

From the cot foot end, press the green (unlock) side of the foot pedal as shown in Figure 34 or from the cot head end, lift up on either red pedal at the head end as shown in Figure 35.

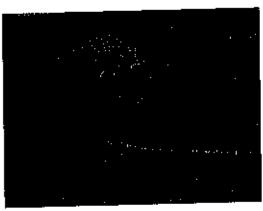


Figure 34

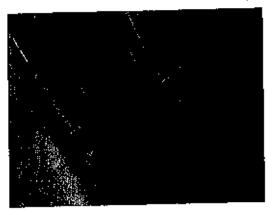


Figure 35

INSTALLING AND REMOVING THE INCUBATOR ADAPTOR

Notes:

- If the adaptor was ordered with the model 6516 Power-PRO™ IT cot, the incubator adaptor may have been installed at the factory.
- If the adaptor was purchased as a retrofit kit, follow these instructions for installation.

⚠ WARNING

These adaptors are intended for use only on the model 6516 Power-PRO™ IT cot. They are not intended for installation on any other Stryker cot or on any cot from another manufacturer. Using these adaptors on any cot other than the model 8516 Power-PRO** IT cot may result in damage to the cot and /or injury to the patient or user.

- 1. Remove the existing adaptor (if there is one already present). See Table 1.0 to locate the pages for removal and Installation instructions of each adaptor.
- 2. Install the new incubator adaptor. See Table 1.0 to locate the pages with removal and installation instructions of
- 3. Align the adaptor assembly with the mounting holes in the Power-PRO™ IT cot as shown in the appropriate
- 4. Reference the appropriate illustration to determine the correct location for installation of the provided fasteners. Apply a few drops of the provided Loctite® to the threads of the fasteners and tighten them securely.
- 5. Install the incubator on the adaptor. See Table 2.0 to locate the pages for installation instructions of each incubator.

Incubator/Module	Page	Required Tools
Airborne™ Slde-by-Side	page 138	 5/32" Allen Wrench 3/16" Allen Wrench 1/2" Socket & Hatchet
Orager ²	page 144	- 5/32" Allen Wrench - 3/16" Allen Wrench
Airborne™ Stackable	page 147	1/2" Socket & Ratchet
Sied (No Adaptor Option)	page 149	1/2" Socket & Ratchet

Table 1.0

Incubator	Page
Airborne™ Side-by-Side	page 54
Drager®	page 55
Airborne™ Stackable	page 57
Air Sled (No Adaptor Option)	page 58

Table 2.0

Verify that the adaptor is properly installed on the cot and the incubator is securely fastened to the edaptor prior to use. An improperly attached adaptor or incubator may cause injury to the patient or user.

INSTALLING THE AIRBORNE™ INCUBATOR IN THE SIDE-BY-SIDE CONFIGURATION

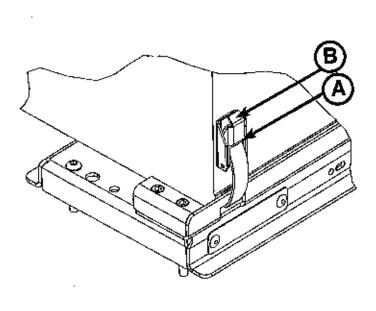
Prior to installing the Airborne™ Side-by-Side Incubator on the model 6516 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator.

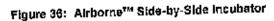
MARNING

The Airborne™ Side-by-Side Incubator adaptor (6516-128-000) is designed to secure only Airborne™ Incubators to the model 6516 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6516 Power-PRO™ IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.

To install the incubator:

- Push down on latch tab (A) to release latch tab (B) as shown in Figure 36.
- 2. Pull down on latch tab (B) and open each of the latches on the four corners of the incubator.
- Place the Airborne™ incubator into the adaptor on the cot. Verify that all four corners of the incubator are properly seated in the adaptor.
- 4. Insert each latch into its slot on the adaptor. Push up on latch (B) to secure the latches. Verify that all four latches are securely fastened.





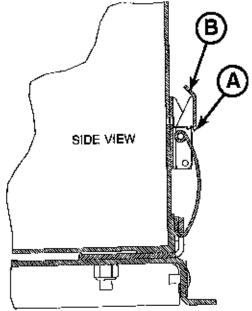


Figure 37: Latch Tabs - Side View

▲ WARNING

Verify that the adaptor is properly installed on the cot and the incubator is securely fastened to the adaptor prior to use. An improperly attached adaptor or incubator may cause injury to the patient or user.

INSTALLING THE DRAGER® INCUBATOR

Prior to installing the Drager[®] incubator on the model 6516 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator.

⚠ WARNING

- The Drager[®] Incubator adaptor (6516-129-000) is designed to secure only Drager[®] incubators to the 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6516 Power-PRO™ IT cot or using any unapproved incubators in this configuration may result in damage to the cet and/or injury to the patient or user.
- Stryker is not responsible for specifications changes to the Drager® (or Air Shields® Series) incubators.

To install the incubator:

- 1. Pull the red latch handle (A) on the adaptor and move it to the right until the slot in the handle engages with the shoulder bolt (B) on the adapter as shown in Figure 38.
- 2. Place the incubator on the adapter. Align the holes in the incubator with the four plns (C) on the adapter (only two
- 3. Move the latch handle to the left to release it. The handle retracts and the latches engage to secure the incubator. Inspect all four locking points to verify that the latches are securely engaged and are not obstructed by anything (hoses, wires, etc.).

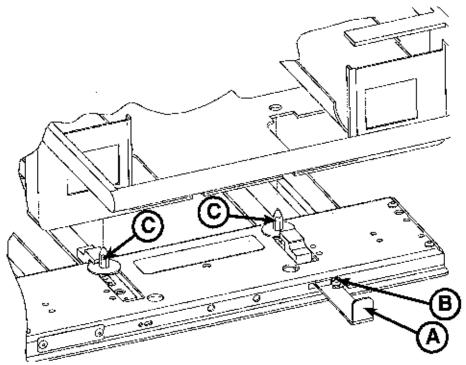


Figure 38: Drager® Incubator

Cot Operation

INSTALLING THE DRAGER® INCUBATOR (CONTINUED)

Figure 39 and Figure 40 show the incubator in the unlocked and locked positions.

MARNING

Verify that the adaptor is properly installed on the cot and the incubator is securely fastened to the adaptor prior to use. An improperly attached adapter or incubator may cause injury to the patient or user.

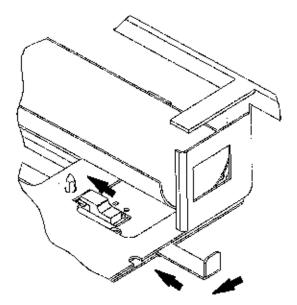


Figure 89: Unlocked Position

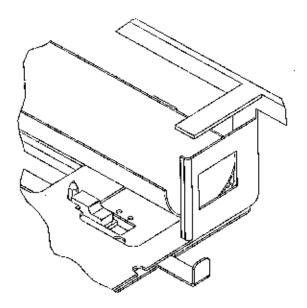


Figure 40: Locked Position

INSTALLING THE AIRBORNE™ STACKABLE

Prior to installing the Airborne™ Stackable on the model 6516 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator.

▲ WARNING

The Airborne™ Stackable adaptor (6516-127-000) adaptor is designed to secure only an Airborne Stackable to the model 6516 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6516 or using any unapproved incubators or stackables in this configuration may result in damage to the cot and/or injury to the patient or user.

To install the adaptor:

- 1. Using the 1/2" socket and ratchet, remove the four 5/16" hex nuts and washers (A) from the mounting stude (B) on the adaptor as shown in Figure 41.
- 2. Locate the mounting holes in the bottom of the oxygen bottle module (C).
- 3. Install the oxygen bottle holder on the adaptor mounting stude (B) with the bottle openings facing toward the retractable head section. Verify that all four mounting studs are properly seated into the mounting holes of the oxygen bottle holder.
- 4. Using a 1/2" socket and ratchet, install the four 5/16" hex nuts and washers (A) that were removed in step one and securely tighten them.

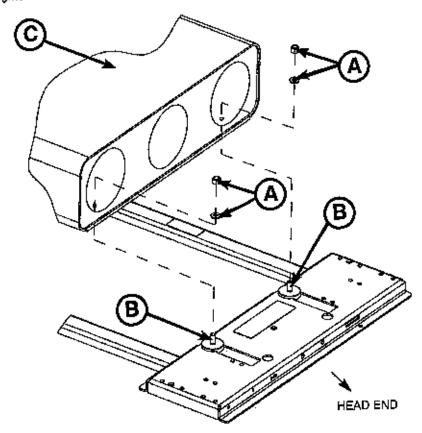


Figure 41: Airborne™ Stackable

MARNING.

Verify that the adaptor is properly installed on the cot and the oxygen module is securely fastened to the adaptor prior to use. An improperly attached adaptor or oxygen module may cause injury to the patient or user.

Return To Table of Contents

Cot Operation

INSTALLING THE AIR SLED WITH A SLED RECEPTACLE

Prior to installing the Air Sted on the model 5516 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator. These instructions explain how to install the Air Sled with the manufacturer's supplied sled receptacle (not included).

M WARNING

- The Air Sied, no adaptor option (6516-142-000) is designed to secure incubators without an adaptor to the model 6516 Power-PRO™ IT cot. Using this configuration on any cot other than the model 6516 Power-PRO™ IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specification or option changes to Air Sied compatible incubators.

To install the incubator:

- 1. Use the supplied fasteners to boit the receptacle to the litter frame as shown in Figure 42.
- 2. Insert the Air Sled (A) into the receptacle (B) by using the latching system that is included as part of the Air Sled apparatus.

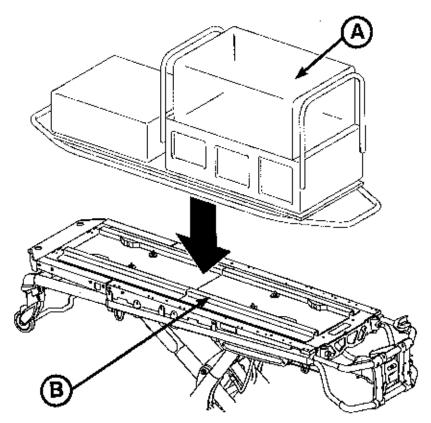


Figure 42: Air Sied Installation

SECURING THE AIR SLED

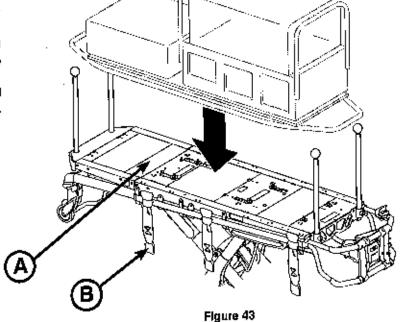
Prior to installing the Air Sted on the on the model 6516 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator. These instructions explain how to secure the Air Sied to the litter surface of the model 6516 Power-PROTM IT cot with straps.

MARNING

- The Air Sled, no adaptor option (6516-142-000) is designed to secure incubators without an adaptor to the model 8516 Power-PRO™ IT cot. Using this configuration on any cot other than the model 8516 Power-PRO™ IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specification or option changes to Air Sied compatible incubators.

To secure the air sled to the litter surface:

- 1. Attach the straps (not supplied), as shown in Figure 43, to secure the Air Sled to the litter surface (A).
- 2. Ensure that the straps (B) are secured from the litter and not the push bars to the Air Sled (Figure 43).
- 3. Confirm that the Air Sled is secured to the cot as shown in Figure 44.



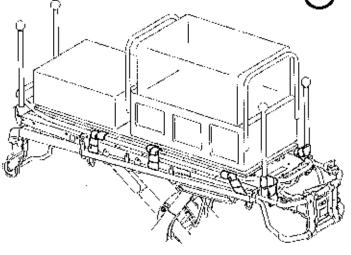


Figure 44

USING THE RIGID PUSH BARS

Use the rigid push bars to enhance emergency mobility through sturdy push points white maintaining solid stability. Push bars are available for installation at both the head end (A) and foot end (B) of the cot as shown in Figure 45.

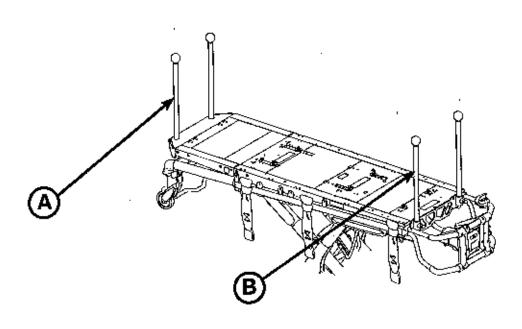


Figure 45

INSTALLING THE BASE STORAGE NET

To install the base storage net, wrap the Velcro $^{\rm o}$ straps around the base tubes.

♠ CAUTION

- The weight of the equipment in the base storage net (if equipped) must not exceed 20 lb (9 kg).
- Be careful when retracting the base to avoid damaging items stored in the base storage net.

INSTALLING THE HEAD END STORAGE FLAT

⚠ WARNING

When the optional head end storage flat is being used, ensure that it does not interfere with the operation of the retractable head section, safety bar and safety hook, injury to the patient or operator could result.

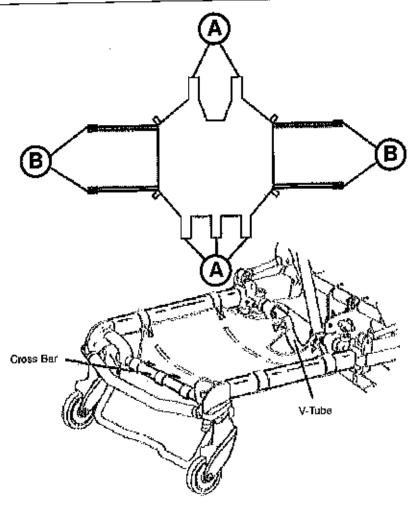


Figure 46: Head End Storage Flat

To install the optional head end storage flat (see Figure 46):

- Install the Velcro® straps (A) near the pneumatic cylinder and around the cross bar of the retractable head section.
- Buckle the restraint straps (B) around the outer rails of the retractable head section.

The weight of the equipment in the head end storage flat (if equipped) must not exceed 40 ib (18 kg).

Return To Table of Contents

Cleaning

The Power-PRO** IT cot is designed to be power washable. The unit may show some signs of exidation or discolaration from continuous washing, however, no degradation of the cot's performance characteristics or functionality will occur due to power washing as long as the proper procedures are followed.

Thoroughly clean the cot once a month. Clean Velcro® AFTER EACH USE, Saturate Velcro® with disinfectant and allow disinfectant to evaporate. Appropriate disinfectant for nylon Velcro* should be determined by the service.

WASHING PROCEDURE

- Always remove the battery! Never wash the cot with the battery installed.
- Follow the cleaning solution manufacturer's dilution recommendations exactly.
- The preferred method Stryker Medical recommends for power washing the cot is with the standard hospital surgical cart washer or hand held wand unit.

WASHING LIMITATIONS



When cleaning, use any appropriate personal safety equipment (goggles, respirator, etc.) to avoid the risk of inhaling contagion. Use of power washing equipment can aerate contamination collected during the use of the cot.

/\ CAUTION

- DO NOT STEAM CLEAN OR ULTRASONICALLY CLEAN THE UNIT.
- Maximum water temperature should not exceed 180°F/82°C.
- Maximum water pressure should not exceed 1500 psi/130.5 bar. If a hand held wand is being used to wash the unit, the pressure nozzle must be kept a minimum of 24 inches (61 cm) from the unit.
- Allow cot to air dry.
- Towel dry all casters and interface points.
- Failure to comply with these instructions may invalidate any/all warranties.
- Always remove the battery before washing the cot.

Cleaning

In general, when used in those concentrations recommended by the manufacturer, either phenolic type or quaternary (excluding Virex® TB) type disinfectants can be used. Indephor type disinfectants are not recommended for use because staining may result.

Suggested cleaners for the cot surfaces:

- Quaternary Cleaners (active ingredient ammonium chloride)
- Phenolic Cleaners (active ingredient o-phenylphenol)
- Chlorinated Bleach Solution (5.25% less than 1 part bleach to 100 parts water)

Avoid over saturation and ensure that the product does not stay wet longer than the chemical manufacturer's guidelines for proper disinfecting.

M WARNING

SOME CLEANING PRODUCTS ARE CORROSIVE IN NATURE AND MAY CAUSE DAMAGE TO THE PRODUCT IF USED IMPROPERLY. If the products described above are used to clean Stryker EMS equipment, measures must be taken to ensure the cots are wiped with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the cots will leave a corrosive residue on the surface of the cots, possibly causing premature corrosion of critical components.

Note: Fallure to follow the above directions when using these types of cleaners may void this product's warranty (see page 161).

REMOVAL OF IODINE COMPOUNDS

Use a solution of 1/2 Tablespoon Sodium Thiosulfate in a plnt of warm water to clean the stained area. Clean as soon as possible after staining occurs. If stains are not immediately removed, allow solution to soak or stand on the surface. Rinse surfaces which have been exposed to the solution in clear water before returning unit to service.

WARNING

Failure to properly clean or dispose of contaminated cot components will increase the risk of exposure to bloodborne pathogens and may cause injury to the patient or the operator.

Preventative Maintenance

A preventative maintenance program should be established for all Stryker Medical equipment. Preventative maintenance may need to be performed more frequently based on the usage level of the product. The cot requires regular maintenance. Establish and follow a maintenance schedule and keep records of maintenance activity (see page 68 for a form).

CAUTION

A preventative maintenance program should be established for all Stryker EMS equipment. Preventative maintenance may need to be performed more frequently based on the usage level of the product. Close attention should be given to safety features including, but not limited to:

- Hydraulic power mechanism
- All electrical controls return to off or neutral position when released

For additional maintenance information, see the preventative maintenance information on page 68.



▲ WARNING

- Do not modify the cot or any components of the cot. Modifying the product can cause unpredictable operation resulting in injury to the patient or operator. Modifying the product will also void its warranty (see page 161).
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.
- To avoid the risk of injury, do not use bare hands to check for hydraulic leaks.

When using maintenance products, follow the directions of the manufacturer and reference all material safety data sheets.

↑ CAUTION

- Improper maintenance can cause injury or damage to the product. Maintain the cot as described in this manual. Use only Stryker approved parts and maintenance procedures. Using unapproved parts and procedures could cause unpredictable operation and/or injury and will void the product warranty (see page 161).
- Fallure to use authorized parts, lubricants, etc. could cause damage to the cot and will void the warranty of the product.
- Hydraulic lines, hoses, and connections can fall or loosen due to physical damage, kinks, age, and environment exposure. Check hoses and lines regularly to avoid damage to the cot. Check and tighten loose connections.
- Do not tip the cot onto its load wheels and actuate the product as this will allow air to enter the hydraulic system.

LUBRICATION

The cot has been designed to operate without the need for lubrication.



64

Do not lubricate the bearings in the X-frame as it will degrade the performance of the cot and may void its warranty (see page 161).

REGULAR INSPECTION AND ADJUSTMENTS

Maintenance Intervals

The following schedule is intended as a general guide to maintenance. Bear in mind that such factors as weather, terrain, geographical location, and individual usage will alter the required maintenance schedule. If you are unsure as to how to perform these checks please contact your Stryker service technician. If you are in doubt as to what intervals to follow in maintaining your product, consult your Stryker service technician. Use the hour meter (page 31) to determine the frequency for preventative maintenance procedures. Check each routine and replace damaged or worn parts if necessary.

			very (whichev	Every (whichever comes first)	
Rem	Hottine	1 Month or	3 Months	6 Months or	12 Months
		2 hours	or 6 hours	12 hours	or 24 hours
	Marify the in-fastener shut-off is configured properly	×			
e Burger	Verify the cot and fastener fit and function properly				×
	Verify the safety bar engages the vehicle safety hook properly				×
Colinder	All fasteners are secure (reference all assembly drawings)		×		
	Verify the cylinder is adjusted so the lock nut is tight and the cot stops moving				×
	when it hits the dead stops				
_	inspect for and verify that there are no hydraulic fluid (red) leaks; inspect the		×		
	fittings and tighten as necessary				
	Extend cylinder rod completely and wipe down rod with soft cloth and household	×	_		
	cleaner				
Hydrautics	Inspect motor mount and verify that all fasteners are secure		×		
	Verify that there are no hydraulic fluid leaks		×		
	Instruct the reservoir and verify that there are no leaks		×		
				×	
	Inspect noses and number to extings of view			,	
	Verify the hydraulic velocity fuse - Place a weight of approximately 50 lb on the			<	
_	cot, raise the cot, lift the cot with two operators, pull the manual back-up release				
	handle, rapidly set the cot down, verify that the cut does not drop				
Electronic Controls	Extend cot to raised position, measure and check load height			×	
	Verify "jog" function is operating			×	_
	Verify high speed retract is working			×	
0.000	Verify there is no damage or wear to either switch			×	
SWIGHTEN S	Vesity both switches onerate correctly			×	
	Wester that is no demone or ninching of wiring harness, cables or lines		×		
Cables/Wires	Cherk routhors and connections, verify there are no hanging wires	×			:
			×		
	לפוול חופים מים זה המשפחה במים מים מים מים מים מים מים מים מים מים				

Return To Table of Contents

			-very (whichev	Every (whichever comes first)	
Item	Houriste	-			L
		1 Month or	3 Months	6 Months of	2 MONITUS
		2 hours	or 6 hours	12 hours	or 24 hours
Monnel Back in Selease Handle	Verify that the manual back-up release handle functions properly	×			
	Verify the manual back				×
	Verify the base extends/retracts smoothly when the manual back-up release		×	. <u> </u>	
	handle is engaged				
	With 100 lb or more on the cot, verify the cot does not lower when the manual		×		
	backup release handle is pulled				
Litter	Inspect the cot frame/litter	×			
	Verify all welds intact, not cracked or broken				×
	Verity no bent, broken or damaged components			×	
	Venty all tasteners secure (reference all assembly drawings)		×		
	Verify warning labels present, legible (reference assembly drawings)				×
	Verify no damage or tears on cot grips			×	
Race	Inspect the cot frame/base	×			:
	Verify all welds intact, not cracked or broken				×
	Verify no bent, braken, or damaged components			×	
	Verify all fasteners secure		×		
	Verify that the cot retaining post is secure. If not secure, then the screw must be			×	
	replaced. See "Cot Retaining Post Screw Replacement" on page 87.				
	Verify no excessive damage to X-frame guards			×	- i
Wheels	Verify wheels are free of debris			×	
	Verity all wheels secure, rolling and swiveling properly	×		!	
	Check and adjust optional wheel tooks as necessary				×
X-Frame	Verity smooth operation of X-frame	<u>.</u>	×		

			Every (whichev	Every (whichever comes first)	
Item	Routine	1 Month or	3 Months	6 Months or	12 Months
		2 hours	or 6 hours	12 hours	or 24 hours
			× 		
Head Section	Verify all fasteners secure			×	
	Verify no bent, broken, or camages components		×		
	Verify the head section externos and locks pruporty			×	
	Verify the gnp bar has no excessive contage in war a			×	
	Verify load wheels are secure and row properly. Verify the safety bar operates properly. Pull toward the head section to ensure	×			
	that it swings and rotates freely and pulls back to home position.	\ 	<u> </u>]	 -
Battery	Inspect the SMRT** Pak housing and terminal area for cracks or damage		×		
Accessories	Verify all optional accessories operate properly		; -		

Return To Table of Contents

Maintenance Record

Date	Maintenance Operation Performed	Ву	Hours
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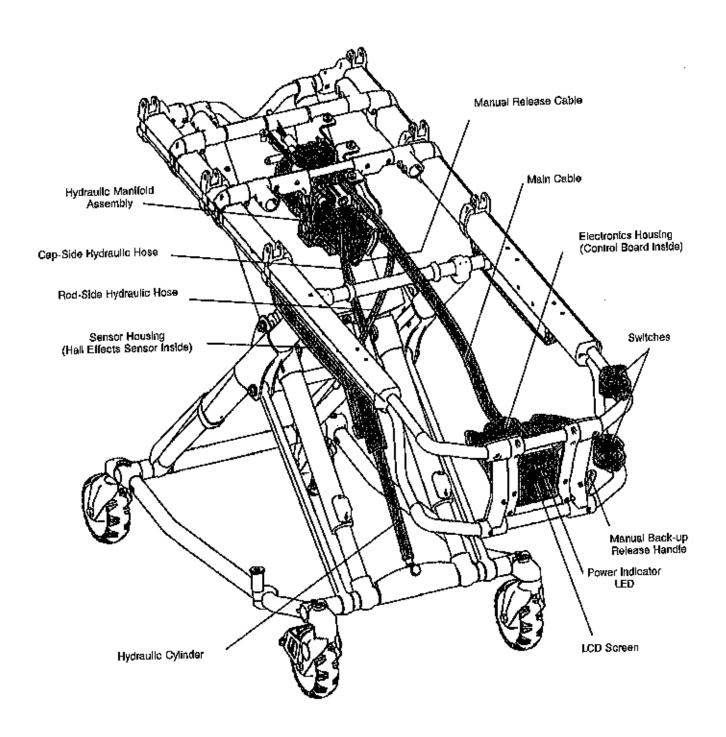
Training Record

	Trainin	g Date	Training Method
To local Name	Basic	Retresher	Owner's Manual, In-Service, Formal Class, Etc.
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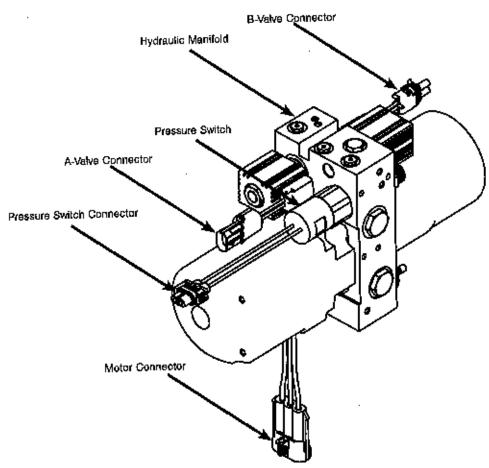
Troubleshooting Guide

ELECTRONICS AND HYDRAULICS LOCATOR

Note: Some components have been removed for clarity.



HYDRAULIC ASSEMBLY

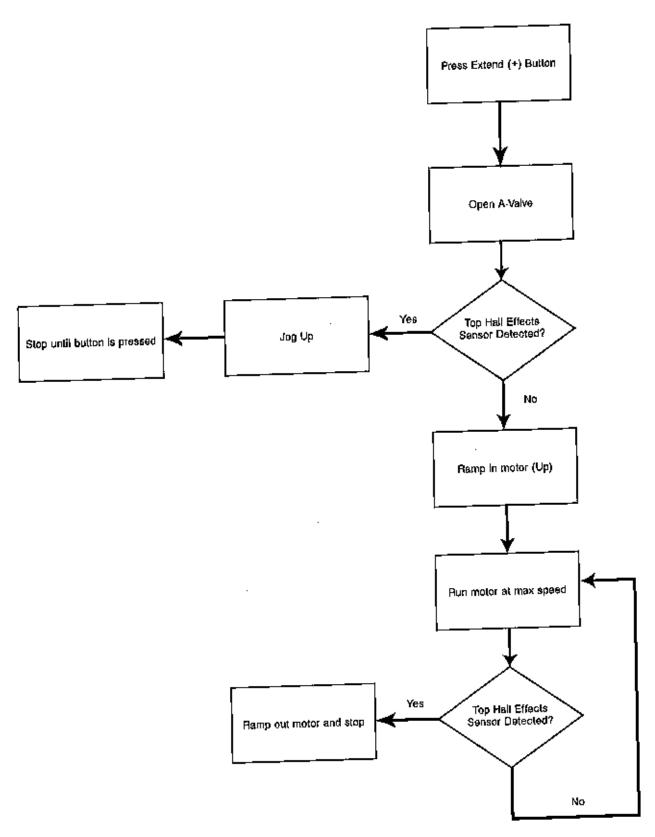


HYDRAULIC ASSEMBLY WIRING SCHEMATICS

item	Connection	Connection Item
Pressure Switch	[A]————————————————————————————————————	Pressure Switch Connector
A Valve Solenoid		
8 Valve Selencid	[B] — —	
		Blue

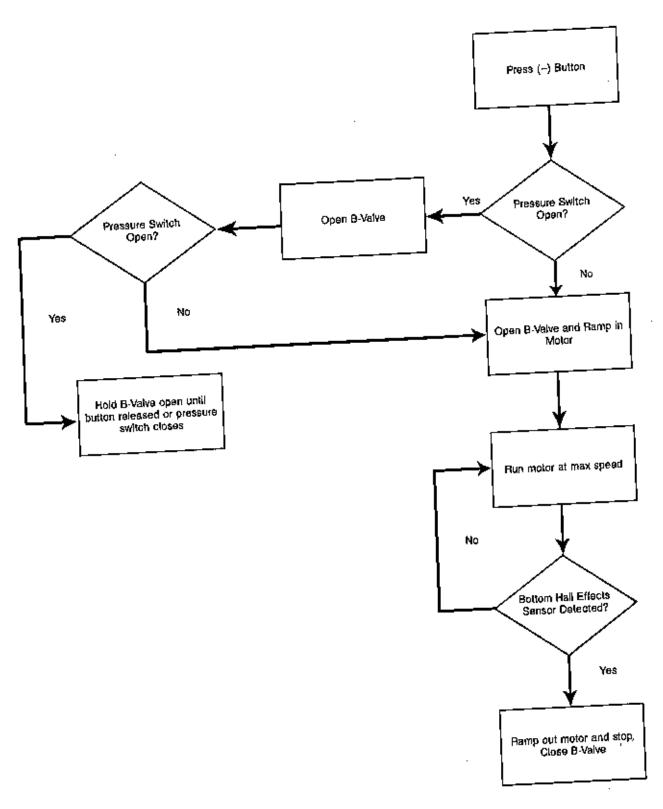
ELECTRICAL SYSTEM BLOCK DIAGRAM

Lift and Extend (Unload) Functions



Electrical System Block Diagrant

Lower and Retract (Load) Functions



Troubleshooting Guide

TROUBLESHOOTING GUIDE

Check for proper operation after each step. When the problem is fixed, return the cot to service. If assistance is needed at any time during troubteshooting, please contact à service technician at (800) 327-0770 or (269) 324-6500.

- Indiana Pilin	Para Britania	PAGES
Itter drifts (without patient weight) Base drifts (without patient weight) Litter does not lower in the powered mode	1. Flush the hydraulic system by squeezing the manual release handle white simultaneously pressing the (+) power button for approximately 15 seconds. Repeat if necessary. 2. Check the manual release cable adjustment. 3. Change the 'locking' manual valve. 4. Change the 'B' valve. 1. Flush the hydraulic system by squeezing the manual release handle while simultaneously pressing the (+) power button for approximately 15 seconds. Repeat if necessary. 2. Check the manual release cable adjustment. 3. Change the 'non-locking' manual valve. 4. Change the 'A' valve. 1. Check the power indicator LED. a. If blinking constant amber, change the battery.	page 78 page 79
the powered mode	 a. If blinking constant amon, change 2. Check for error on LCD. 3. Check for broken or disconnected wires. 4. Check for 24V DC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenold, and or 'B' valve. If voltage is not present, go to step 5. 5. Check for 24V DC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present replace the wire harness. a. If the green light turns on, but does not lower, try the other switch. If the switch. 	

TROUBLESHOOTING GUIDE (CONTINUED)

FROUBLESHOOTING GUIDE (CON		Service of the Part of the Par
	SOLUTION	PAGES page 78
Litter does not extend in the powered mode	 Check the power indicator LED. 	page 79 in: or ge or. ind the not ably ead (+) ace

Troubleshooting Guide

TROUBLESHOOTING GUIDE (CONTINUED)

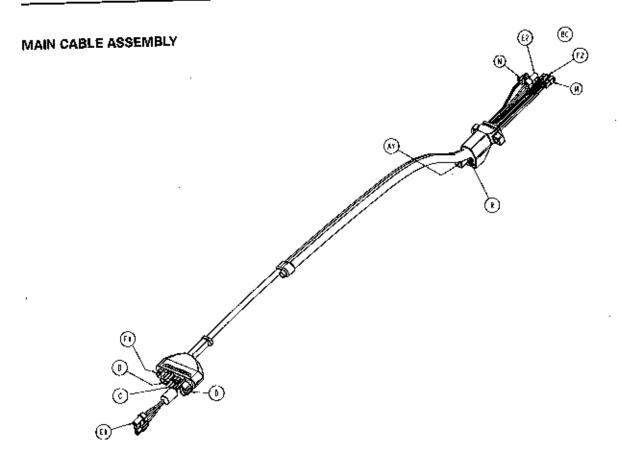
PROBLEM	SOLUTION	PAGES
PROBLEM Dase does not retract in the powered mode	 Check the power indicator LED. a. If blinking constant amber, change the battery. Check for error on LCD. Check for broken or disconnected wires. Check for 24V DC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solanoid, and or 'B' valve. If voltage is not present, go to step 5. Check for 24V DC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present, 	
Base does not extend in the manual mode	replace the wire harness. 1. Check the manual cable adjustment. 2. Change the 'non-locking' manual valve.	
Base does not retract in the manual mode	 Check the manual release cable adjustment. Change 'locking' manual valve. 	
Litter does not retract in the manual mode (with patient weight)	 Make sure that the weight is off of the casters before lowering the cot. Check the manual cable adjustment. Replace the 'locking' manual valve. 	·
Litter does not extend in the manual mode	Check the manual cable adjustment. Change the 'non-locking' manual valve.	
High speed retract does not engage	 Check that the weight is off of the casters. Change the pressure switch. Change the hall effect cable. 	

Troubleshooting Guide

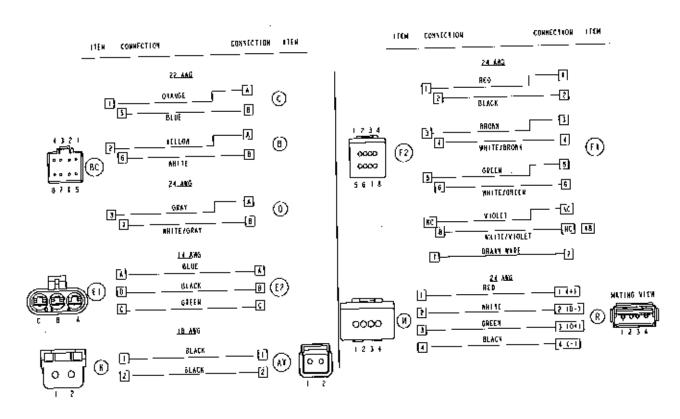
LCD ERROR CODES .

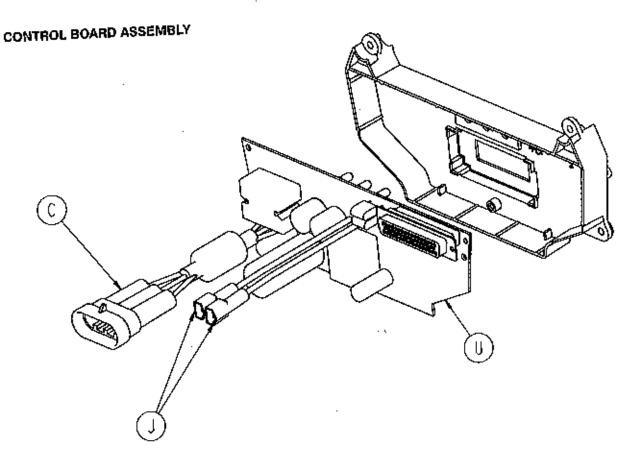
MICRO		DETECTION PERIO
LCD DISPLAY	ERROR DESCRIPTION	Initialization
ERR 01	RAM dlagnostic fallure	Initialization
ERR 02	Program memory failure	Initialization
ERR 03	EE diagnostic failure	Initialization
ERR 04	EEPROM type and hardware type incompatible	Initialization
ERR 10	Volves diagnostic failure	Initialization
ERR 81	EEPROM rev and firmware rev incompatible	Initialization
ERR 21	Motor shorted	Initialization
EBR 22	Motor open	Initialization
ERR 23	High power gating relay shorted	Initialization
ERR 51	Motor drive FET shorted - Q15	Initialization
ERR 52	Motor drive FET shorted - Q11	Initialization
ERR 55	Motor drive FET shorted - Q16	Initialization
ERR 56	Motor drive FET shorted - Q12	Initialization
ERR 62	Add Micro and ASIC current limit mismatch	Run Time
ERR 80	Eutond (4) or retract (-) button detected without key	Run Time
ERR 31	Electronics board over temp (280,22 P 4)- 5/6)	Run Time
ERR 81	Bad hall effect sensor combination	Run Time
ERR 93	Safety Micro non-responsive	

LCD DISPLAY		DETECTION PER
ERA 05	BAM diagnostic failure	Initialization
ERR 06	Program memory diagnostic fallure	Initialization
ERR 08	EEPHOM type and hardware type incompatible	Aun Time
ERR 40	Data error	Run Time
ERR 41	Charging failed battery voltage	Run Time
ERR 42	VIBITED A PART NOTE IN THE PART NOTE IN	Run Time
ERR 43	Charging failed battery charging time or over voltage and	Run Time
ERR 44	Charging falled charging current	Run Time
ERR 45	Charolog falled delta temp	Initialization
ERR 63	EEPROM rev and firmware rev Incompatible	Run Time
ERR 83	Extend (+) or retract (-) button detected without key ASIC driving without microprocessor instruction	Run Time

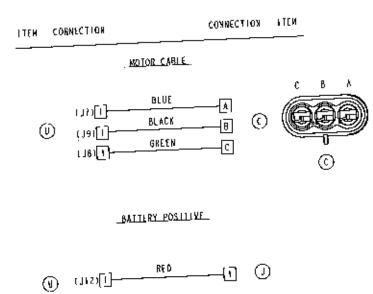


MAIN CABLE ASSEMBLY WIRING SCHEMATICS





CONTROL BOARD WIRING SCHEMATICS



BATTERY NEGALINE

(B) 1710)[] BLACK

Return To Table of Contents

Quick Reference Replacement Parts List

The parts and accessories listed on these pages are all currently available for purchase. Some of the parts identified on the assembly drawing parts in this manual may not be individually available for purchase. Please call Stryker Customer Service USA: 1-800-327-0770 (Option 2) for availability and pricing.

	Part Number
Parf Name Base Storage Nat	6500-180-000
Cable, Hall Effect Sensor	6500-001-160
DC Battery Charger, 110V, Domestic	6500-070-000
	6500-072-000
DC Battery Charger 12V/24V, In-Ambulance	6500-002-014
Electronics Assembly	6500-001-293
Hydraulic Oli	6500-700-046
Kit, Battery Pack, SMRT™ Pak	6500-700-040
Kit, SMRT*** Power System 12V DC (Car Charger), includes charger, 2 paks, and power cord	
Kit, SMRT** Power System 120V AC (Wall Charger), includes charger, 2 paks, and power cord	6500-700-041
Mounting Bracket, SMRT™ Charger	6500-201-100
Safety Hook, J	6092-036-018
Safety Hook, Long	6060-038-017
	6060-036-016
Safety Hook, Short	6500-128-000
Storage Flat, Head End	6060-199-010
Touch-Up Paint (Yellow)	7000-001-322
Touch-Up Paint (Black)	6500-001-286
Valve, "A"	6500-001-287
Valve, "B"	6500-001-28
Valve, Locking	
Valve, Non-Locking	6500-001-289
Wheel Lock	6086-200-010

HEADSECTION REPLACEMENT

Tools Required:

- 7/16" Combination Wrench
- 3/16" Hex Wrench

Procedure:

- Raise the cot to the full upright position.
- 2. Using a 7/16" combination wrench and a 3/16" hex wrench, remove the two screws (A) that secure the cap bearings to the base litter interface bracket (one on each side) (Figure 47).
- 3. Squeeze the head release handles and slowly remove the head section assembly.
- Reverse steps to reinstall.
- 5. Verify proper operation of the unit before returning it to service.

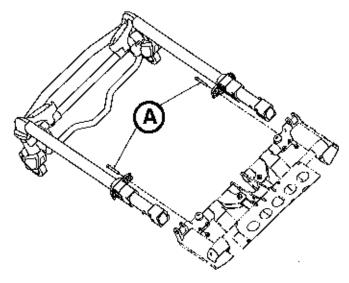


Figure 47

MANUAL RELEASE CABLE ADJUSTMENT

Tools Required:

- 8 mm Combination Wrench
- 10 mm Combination Wrench
- (2) Weight (50 lb each)

Procedure:

- Support the litter so no weight is on the bass.
- Ensure that the manual release cable is intact (A) (Figure 48).
- 3. Using a 10 mm combination wrench, loosen the cable lock nut (B) (Figure 48).
- 4. Using a 8 mm combination wrench, adjust the tension on the manual release cable so it just starts to touch the manual release dual pull bracket (C) (Figure 48).

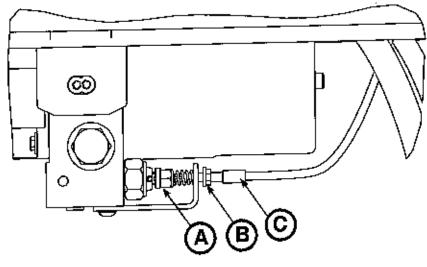


Figure 48

Note: The manual release dual pull bracket should not be tight against the manual valve nuts.

- Tighten the cable lock nut.
- 6. Test for proper adjustment by following steps A-D:
 - A. Place 50 lb of weight on the hydraulic skin.
 - Load height must read 34-1/2" to 35-1/2".
 - C. Place 100 lb of weight on the hydraulic skin, raise cot to full height, pull the manual release handle and ensure that the cot does not drop.
 - D. Remove 100 lb of weight, raise cot to full height, pull the manual release handle, and ensure that the cot drops.

Note: If steps A-D do not work properly, repeat steps 3-6.

Verify proper operation of the unit before returning it to service.

Service Information

FILLING THE HYDRAULICS ASSEMBLY RESERVOIR

Use only Mobil Mercon® V Synthetic Blend Oli (6500-001-293)

Note: Any time you work with the hydraulics you may lose some oil.

Tools Required:

3/16" Hex Wrench

Procedure:

- 1. Paise the cot to the full up position.
- Ensure that the fill port is horizontal and lined up with the hole in the motor mount.
- 3. Remove the port plug (A) using a 3/16" hex wrench (Figure 49).
- 4. Fill the reservoir up to the bottom of the fill port.
- 5. Replace the plug and run the cot up and down a few times.
- Verify proper operation of the unit before returning it to service.

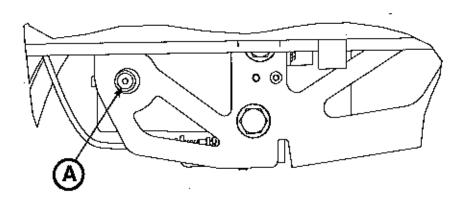


Figure 49

Service Information

WHEEL LOCKING FORCE ADJUSTMENT

Tools Required:

- 5/32" Hex Wrench
- 7/16" Combination Wrench or Socket

Procedure:

- Using the 5/32" hex wrench and 7/16" combination wrench or socket, remove the socket screw from the center of the lock pedal. The wheel lock is initially assembled with the pedal set at the minimum locking force. The marker on the pedal (A) is aligned with the marker on the octagonal sleeve (B) (Figure 50).
- Remove the sleeve (B). Rotate the sleeve counterclockwise to increase the pedal locking force and clockwise to decrease the locking force. Insert the sleeve into the pedal (Figure 50).
- 3. Using the 5/32" hex wrench and 7/16" combination wrench or socket, reinstall the socket screw.
- 4. Test the pedal locking force and verify that the pedal holds properly before returning it to service.



Figure 50: Wheel Locking Force Adjustment

Service Information

STEER-LOCK MECHANISM ADJUSTMENT

Tools Required:

9/16" Combination Wrench

Procedure:

If your steer-lock mechanism will not engage:

 Using a 9/18" combination wrench, adjust the barrel nuts toward the foot end of the cot (Figure 51).

Note: After adjustment, make sure that a minimum of one full thread is exposed on each side of the barrel nut.

If your steer-lock mechanism will not disengage:

 Using a 9/16" combination wrench, adjust the barrel nuts toward the head end of the cot (Figure 52).

Note: After adjustment, make sure that a minimum of one full thread is exposed on each side of the barrel nut.



Figure 51



Figure 52