

Power-PRO™ IT

REF Model 6510

# stryker®

## Operations/Maintenance Manual



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

CE



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# Symbols and Definitions

## SYMBOLS

	Warning, consult accompanying documentation
	Safe Working Load Symbol
	Dangerous Voltage Symbol
	Pinch Point
	Extend
	Retract
	Type B Equipment: equipment providing a particular degree of protection against electric shock, particularly regarding allowable leakage current and reliability of the protective earth connection.  Internally Powered Equipment: Equipment able to operate from an internal (removable) electric power source.  Mode of Operation: 16.7% (1 Min. On / 5 Min. Off)
<b>IPX6</b>	Protection from powerful jets of water
	Medical Equipment Classified by Underwriters Laboratories Inc. With Respect to Electric Shock, Fire, and Mechanical Hazards Only in Accordance with UL 60601-1, and CAN/CSA C22.2 No. 601.1.
	Do not transport incubator and/or equipment in raised position
	Transport incubator and/or equipment in low position only
	Recognized by Underwriters Laboratories, Inc.
	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.

# Symbols and Definitions

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## WARNING/CAUTION/NOTE DEFINITION

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

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### **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.

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### **CAUTION**

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

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### **NOTE**

This provides special information to make maintenance easier or important instructions clearer.

# Introduction

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This manual is designed to assist you with the operation and maintenance of the Power-PRO™ IT Cot. Carefully 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 model 6510 Power-PRO™ IT powered cot reduces manual lifting. The battery-powered hydraulic system raises and lowers the patient with the touch of a button.


## **INTENDED USE OF PRODUCT**

The model 6510 Power-PRO™ IT powered cot is intended to be used as a powered incubator transport cot. It is optionally equipped with an adapter to accommodate a chosen model of incubator.



# Introduction

## SPECIFICATIONS

	<b>Safe Working Load</b> <b>Note:</b> Safe Working Load indicates the sum of the patient, incubator and accessory weight.	700 pounds	318 kg
Maximum Unassisted Lift Capacity		500 pounds	225 kg
Backrest Articulation/Shock Position		Not applicable	
Overall Length/Minimum Length/Width		81" / 63" / 23"	206 cm / 160 cm / 58 cm
Height <sup>1</sup>		Adjustable from 14" to 41.5"	Adjustable from 36 cm to 105 cm
Weight <sup>2</sup>		134 pounds	61 kg
Caster Diameter/Width		6" / 2"	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	
Recommended Loading Height <sup>3</sup>		Up to 36"	Up to 91 cm
Roll-In Style		Yes	
Single Wheel Lock / Double Wheel Lock		Optional	
Hydraulic Oil		Stryker Part Number 6500-001-293	
Power System <sup>4</sup>			
- Battery		24V DC NiCd - SMRT™ Power System 24V DC NiCd - DeWALT® Battery System	
- Charger		120V/240Vac or 12V DC - SMRT™ Power System 110V/220Vac or 12V DC - DeWALT® Battery 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	

<sup>1</sup> Height is measured from the top of the cot, at the center point, to ground level.

<sup>2</sup> Cot is weighed with 1 battery and without incubator.

<sup>3</sup> Cot can accommodate load decks up to 36" (91 cm). Load wheel height can be set between 26" and 36".

<sup>4</sup> Cot is compatible with the SMRT™ Power System and DeWALT® Battery System.

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.

DeWALT® is a registered trademark of Black & Decker Inc.

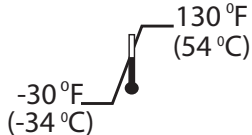

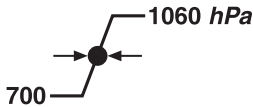
Patents pending.

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

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# Introduction

## SPECIFICATIONS (CONTINUED)

Environmental Conditions	Operation
Temperature	 A diagram showing a temperature range from -30°F (-34°C) to 130°F (54°C). The range is represented by a line with a vertical step at the top right. A thermometer icon is positioned between the two values.
Relative Humidity	 A diagram showing a relative humidity range from 0% to 100%. The range is represented by a line with a vertical step at the top right. Three water droplets are shown falling from the line.
Atmospheric Pressure	 A diagram showing an atmospheric pressure range from 700 to 1060 hPa. The range is represented by a line with a vertical step at the top right. A central dot with two horizontal arrows pointing outwards is positioned between the two values.

# Introduction

## CONTACT INFORMATION

Contact Stryker Customer Service or Technical Support at: (800) 327-0770 or (269) 324-6500.

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.

## SERIAL NUMBER LOCATION

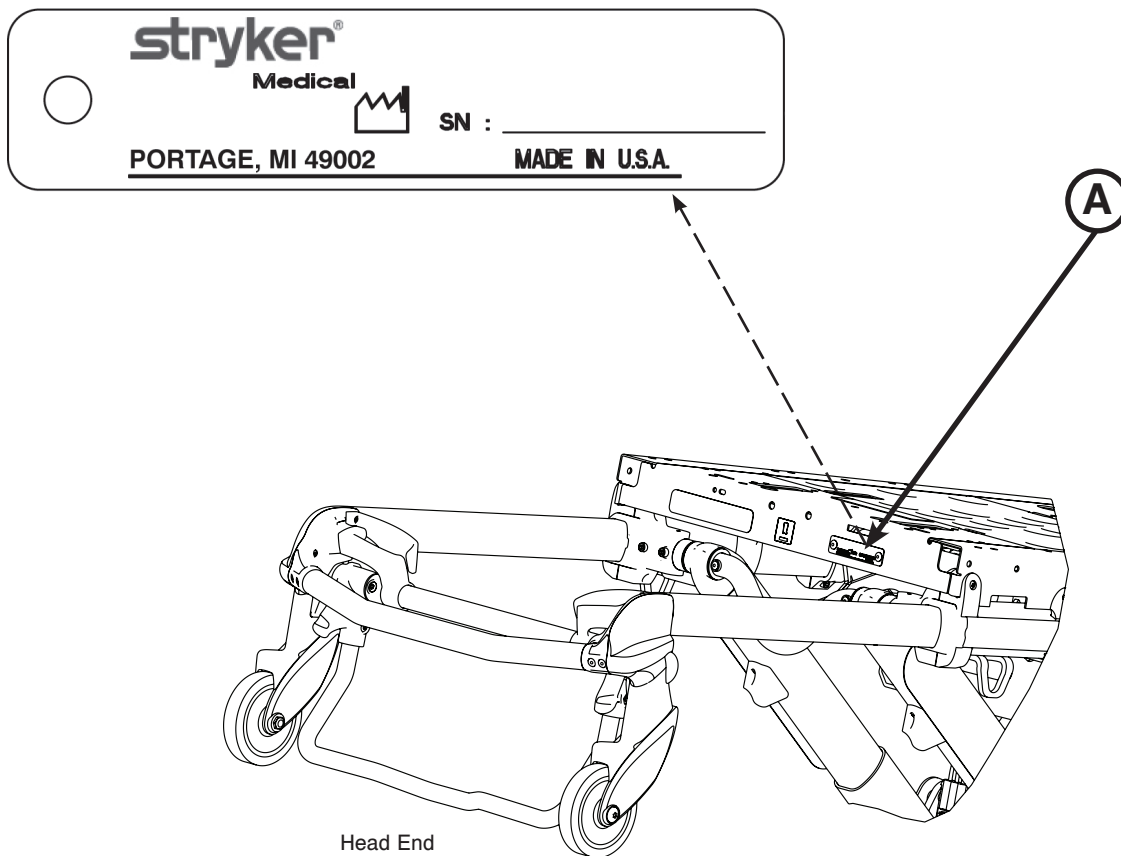
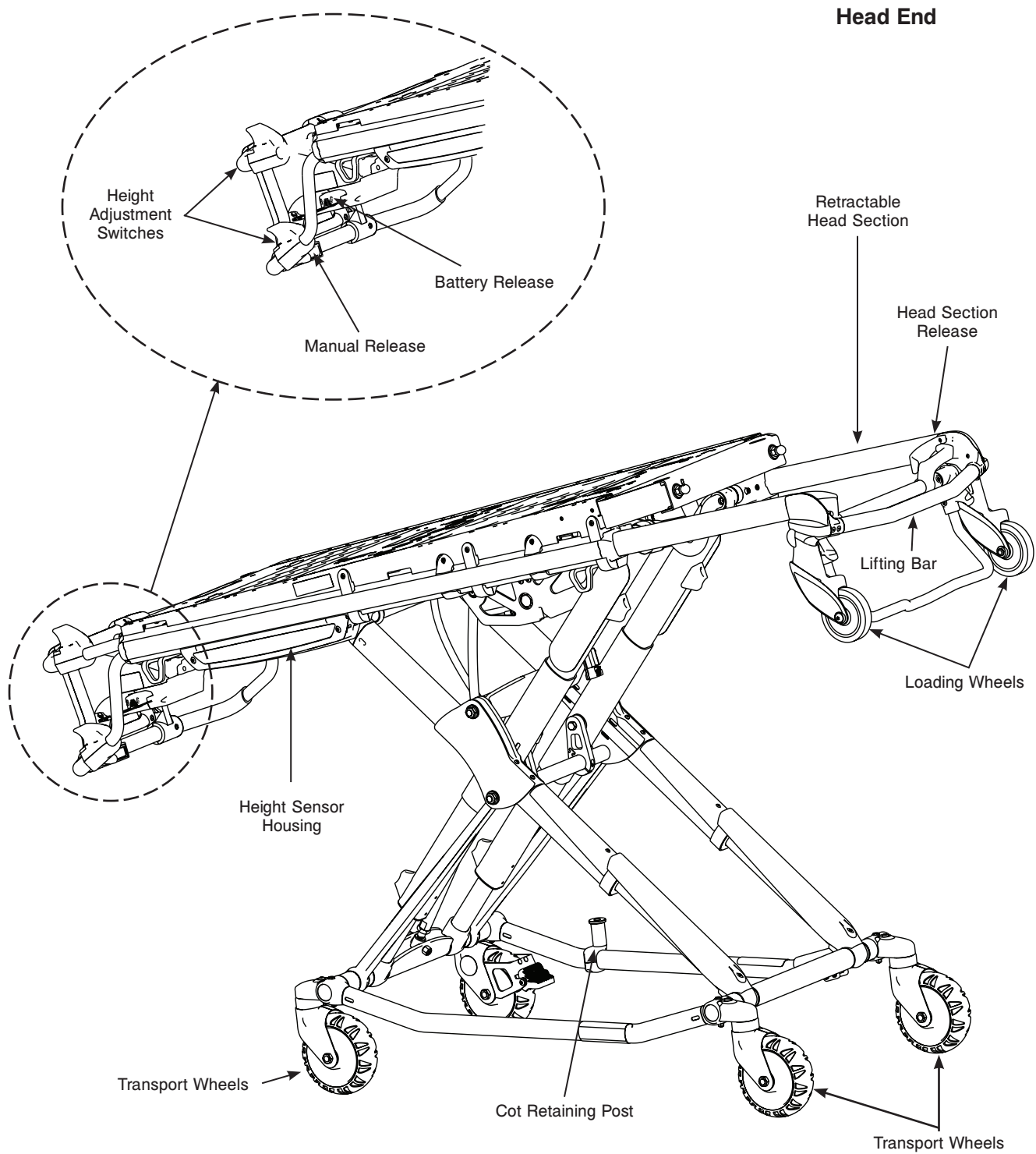


Figure 1: Cot Serial Number & Location

# Introduction

## PRODUCT ILLUSTRATION



**Figure 2: Cot Components**

# Summary of Safety Precautions

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

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## **WARNING**

- 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 141](#)).
- Any emergency vehicle to be used with this cot must have the in-fastener shut-off system installed (see [page 25](#)).
- 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 24](#). 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. Failure to install the in-fastener 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 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.
- 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.
- Failure 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 sill. After installation, verify that the cot legs lock into the load position without contacting the vehicle bumper.
- 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 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 bar from the safety hook. Failure to properly lock the cot into position can cause injury to the patient or operator and/or damage to the cot.
- Entanglement in powered cot mechanisms can cause serious injury. Operate the cot only when all persons are clear of the mechanisms.
- 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 cot.
- Never leave a patient unattended on the cot or injury could result. Hold the cot securely while a patient is on the product.
- Never apply the optional wheel lock(s) 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.

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# Summary of Safety Precautions

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## WARNING (CONTINUED)

- 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.
- There must be a safety hook properly installed in the vehicle so that the bumper does not interfere with the front legs of the base frame.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on [page 27](#).
- When using a standard 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.
- Whenever the weight of the cot and patient is off of the wheels, the cot will automatically enter the high speed retract mode if the retract (-) button is pressed.
- Once the weight is off of the ground, the operator(s) 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.
- 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 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 avoid injury, always verify that the head section is locked into place prior to operating 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" (16 cm) 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.
- 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.
- These adaptors are intended for use only on the model 6510 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 6510 Power-PRO™ IT cot may result in damage to the cot and /or 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 Airborne™ Side By Side Incubator adaptor (6510-028-000) is designed to secure only Airborne™ incubators to the model 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6510 Power-PRO™ IT cot or using any unapproved incubators on this adaptor may result in damage to the cot and/or injury to the patient or user.
- The Drager® Incubator adaptor (6510-029-000) is designed to secure only Drager® incubators to the 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6510 Power-PRO™ IT cot or using any unapproved incubators on this adaptor 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 Airborne™ Stackable adaptor (6510-027-000) adaptor is designed to secure only an Airborne Stackable to the model 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6510 or using any unapproved incubators or stackables on this adaptor may result in damage to the cot and/or injury to the patient or user.
- 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.

# Summary of Safety Precautions

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## WARNING (CONTINUED)

- Stryker is not responsible for specification or option changes to Air Sled compatible incubators.
  - 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 insure 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.
  - To minimize the potential of a cot tip occurring, the stacked (6510-027-000) and side-by-side (6510-028-000) configurations should not be exposed to inclines greater than five degrees when in positions other than the low height (transport) position.
  - To minimize the potential of a cot tip occurring, the side-by-side (6510-028-000) configuration should not be exposed to inclines greater than ten degrees when in the low height (transport) position.
  - Medical electrical equipment requires special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided on [page 137](#) to prevent equipment malfunction.
  - Portable and mobile RF communication equipment can affect Medical Electrical Equipment.
- 

## CAUTION

- The cot can be set at any cot load height position. Establish the required cot load height before placing the cot into service.
  - When charging a battery in an ambulance, locate the charger in an enclosed cabinet and out of patient reach during transport.
  - 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.
  - 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.
  - Do not “jog” the cot past the load height while the safety bar is engaged.
  - Remove the battery if the cot is not going to be used for an extended period of time (more than 24 hours).
  - Only use the battery and charger as specified.
  - 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.
  - Wheel lock(s) 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 head end storage flat (if equipped) must not exceed 40 pounds (18 kg).
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# Summary of Safety Precautions

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## CAUTION (CONTINUED)

- DO NOT STEAM CLEAN OR ULTRASONICALLY CLEAN THE UNIT.
  - Maximum water temperature should not exceed 180°F/82°C.
  - Maximum air dry temperature (cart washers) should not exceed 240°F/115°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.
  - 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 141](#)).
  - Failure 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 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 141](#)).
  - The cot retaining post comes preconfigured for an X-frame cot, if the fastener has been configured for an H-frame style cot, the cot retaining post must be adjusted to accommodate the fastener.
  - When using a single incubator, you must use the center mounting or tipping may occur.
  - If an obstacle is encountered while using the foot end push bars, use extreme caution as the head end may tip.
  - Carefully store equipment in the cot to prevent them from being jammed in the mechanism.
  - Do not lift the head end of the cot by using the head extension. The extendable head section should be used when lifting the head end of the cot.
  - The incubator should only be moved when the cot is at its lowest position.
  - To avoid malfunction, the model 6510 Power-PRO™ IT cot should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the model 6510 Power-PRO™ IT cot should be observed to verify normal operation in the configuration in which it will be used.
  - The model 6510 Power-PRO™ IT cot is not designed to transport more than one incubator.
-



# Summary of Safety Precautions

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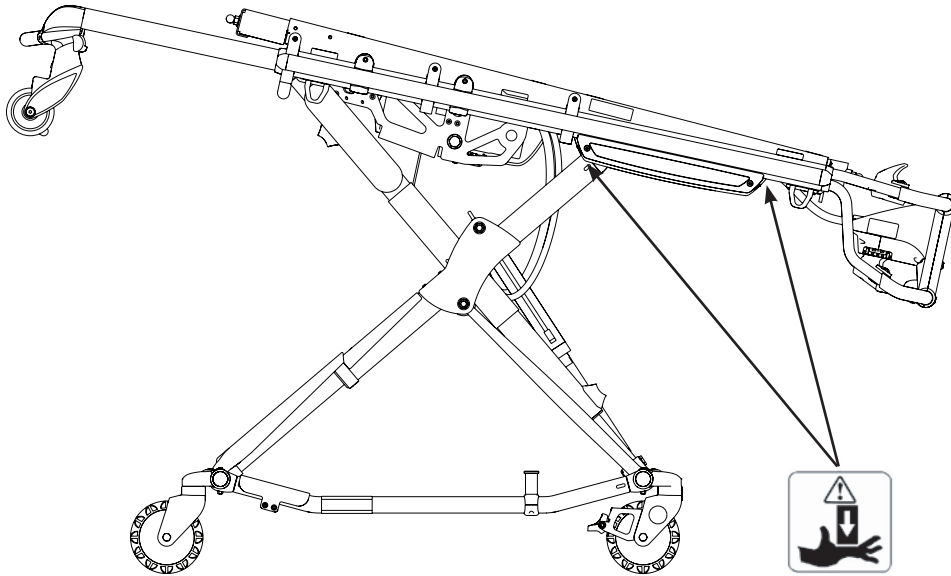
## NOTE

- Loose items or debris on the patient compartment floor can interfere with the operation of the safety hook and cot fastener. Keep the patient compartment floor clear.
- 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 or (269) 324-6500.
- Adjustment of the rail 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.
- When replacing an existing safety hook with a new style, adjust the mounting location to maintain the proper position of the safety hook face.
- Stryker recommends that, prior to installation, the certified mechanic plan the placement of the safety hook in the rear of the vehicle.
- 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. Once the button is released, press the extend (+) button again to “jog” the cot height up further.
- The operators must lift the cot weight slightly off of the wheels to use the manual extend or retract while a patient is on the cot.
- Activation of the manual back-up release handle may cause the cot to lower slowly if less than 40 pounds (18 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.
- 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.
- Batteries slowly lose power when not on the charger.
- Failure to follow the cleaning directions when using the specified types of cleaners may void this product’s warranty (see [page 141](#)).
- If the arrow on the bottom bracket of the retaining post points toward the head end of the cot, the retaining post is set for an X-frame style cot. If the arrow points toward the foot end of the cot the post is set for an H-frame style cot.

# Summary of Safety Precautions

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## PINCH POINTS



WARNING: Pinch Points

Figure 3: Potential Pinch Points

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### 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.

---

# Setup Procedures

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**Ensure that all shipping and packaging materials have been removed from the product(s) 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. Have a qualified service technician use the Product Inspection checklist on [page 21](#) and the operation instructions to check the cot before it is put into service. See Figure 2 on [page 12](#) 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 loading.
- Level floor large enough for the folded cot.
- Stryker Model 6370/6377/6378/6379 or 6371 Cot Fastener System (not included).
- In-fastener shut-off module installed and positioned properly (see [page 25](#)).
- Space to properly install the safety hook.

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

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



## **WARNING**

- Improper usage of the cot can cause injury to the patient or operator. Operate the cot only as described in this manual.
- 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 141](#)).
- Any emergency vehicle to be used with this cot **must** have the in-fastener shut-off system installed (see [page 25](#)).

## **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 or (269) 324-6500.

# 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 91,4 cm), 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:

1. Locate the sensor housing on the patient right side of the cot as shown in Figure 4.1.
2. Using a T27 Torx wrench, remove the sensor housing cover by loosening the two (2) screws (one on each end) as shown in Figure 4.2.
3. Adjust the left height sensor only as shown in Figure 4.3.
  - 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 position.
  - 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.
  - d. 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 4.4.
5. Using a T27 Torx wrench, replace the sensor housing cover by reinstalling the two screws that were removed in step 2.
6. Following completion of the sensor height adjustment, verify that the cot properly engages the safety hook.



Figure 4.1: Sensor Housing



Figure 4.2: Loosening Screws



Figure 4.3: Adjusting Height



Figure 4.4: Securing Cables

### CAUTION

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

# Product Inspection

The condition of the cot is the responsibility of the owner. It is important that the cot is working properly before the product is put into service. Have a qualified service technician use the following list and the operation instructions to check the cot before the product is put into service.

The battery must be charged prior to checking the features and condition of the cot.

Item	Routine
Battery	Unpack batteries and charger
	Charge battery according to SMRT Power System instructions (6500-009-101) or DeWALT® Battery System instructions

The power indicator LED, located at the foot end control enclosure of the cot, is solid green when the battery is fully charged or has adequately charged battery power.

## CAUTION

When charging a battery in an ambulance, locate the charger in an enclosed cabinet and out of patient reach during transport.

After the battery is fully charged, inspect the cot for the following points:

Item	Routine	Page
Battery	Charge spare battery (if necessary) according to SMRT Pak or DeWALT® battery instructions	
	Install battery into foot end enclosure - power indicator LED operates	<a href="#">page 43</a>
	Ensure that the battery remains firmly secured	<a href="#">page 43</a>
	Release and remove battery from foot end enclosure	<a href="#">page 43</a>
	Reinstall battery into foot end enclosure	<a href="#">page 43</a>
Hydraulics	Inspect motor mount - all fasteners secure	<a href="#">page 64</a>
	Check cylinder attachments at both ends - all fasteners secure	<a href="#">page 64</a>
	Inspect main cable - all connections secure	<a href="#">page 64</a>
	Inspect hoses and cylinder seal for leaks	<a href="#">page 64</a>
Electronic Controls	Check power indicator LED - charged	<a href="#">page 45</a>
	Extend cot to raised position	<a href="#">page 32</a>
	Verify "jog" function operates smoothly	<a href="#">page 32</a>
	Lower to retracted position - cot secures in a mid-height position (motor does not operate)	<a href="#">page 32</a>
	Determine and set ambulance vehicle load height	
	Check high speed retract	<a href="#">page 34</a>
	Extend cot to full height - no drift	<a href="#">page 32</a>
Manual Back-up Release	Verify the manual back-up release handle functions properly - adjust accordingly	<a href="#">page 38</a>
	With the cot empty, check the raise/lower function	<a href="#">page 38</a>
	With the cot loaded with a minimum of 99 pounds (45 kg), check the raise/lower function	<a href="#">page 38</a>
	With the cot loaded with a minimum of 99 pounds (45 kg), check the load/unload function	<a href="#">page 38</a>

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# Product Inspection

Item	Routine	Page
Litter	All fasteners secure (reference all assembly drawings)	
	All welds intact - not cracked or broken	
	No bent, broken, or damaged components	
	Inspect hand grips - no defects or tears	
Head Section	All fasteners secure (reference all assembly drawings)	
	No bent or broken tubing or sheet metal	
	Verify the head section extends and retracts properly	<a href="#">page 47</a>
	Inspect grip on lift bar - no defects or tears	
	Load wheels are secure and roll freely	
	Verify the safety bar operates properly	<a href="#">page 33</a>
Base	All fasteners secure (reference all assembly drawings)	
	All welds intact - not cracked or broken	
	No bent, broken, or damaged components	
Wheels and Tires	No debris in wheels	
	All wheels secure, rolling and swiveling properly	
	Operate wheel locks (if equipped) - wheel secure when engaged, rolls freely when disengaged	<a href="#">page 75</a>
Cot Fastener	Inspect the cot retaining post - fasteners secure	<a href="#">page 75</a>
	Install in-fastener shut-off module. Determine and set in-fastener shut-off position. Verify the cot and cot fastener fit and function properly.	<a href="#">page 25</a>
	Install vehicle safety hook	<a href="#">page 29</a>
	Verify the safety bar engages the vehicle safety hook properly	<a href="#">page 33</a>
	Verify head end storage flat (if equipped) is installed properly	<a href="#">page 49</a>

# Cot Fastener Installation

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The Stryker Cot Fastener Systems are designed to be compatible only with cots which conform to the installation specifications listed on [page 24](#).

---

 **WARNING**

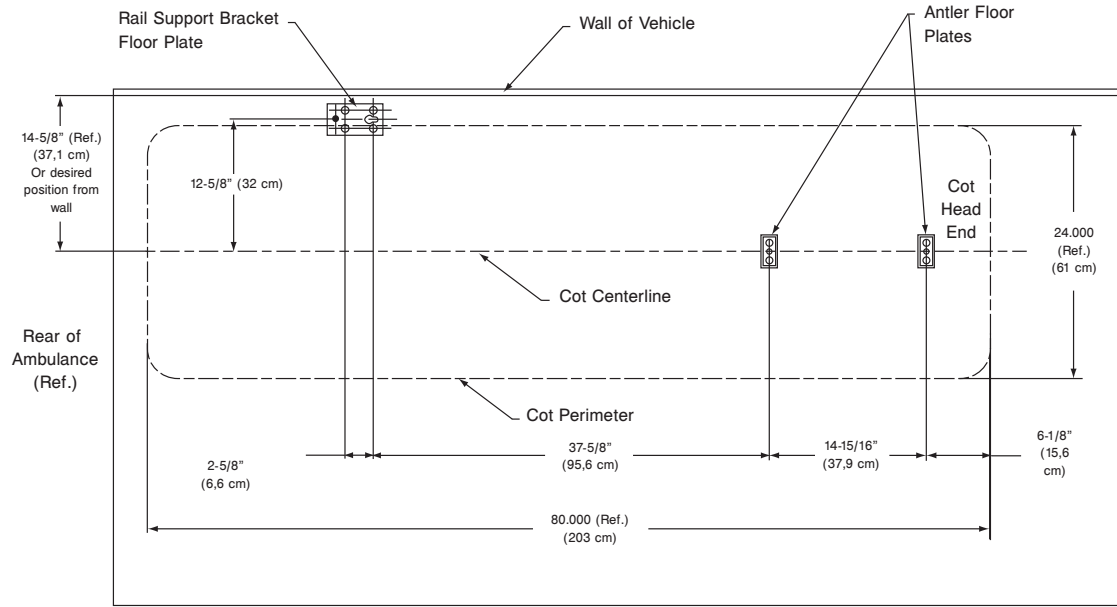
It is the responsibility of the cot operator to ensure that the cot being used in the Stryker Cot Fastener Systems meets the installation specifications listed on [page 24](#). Injury may result if a non-compatible cot is used in the Stryker Fastener System.

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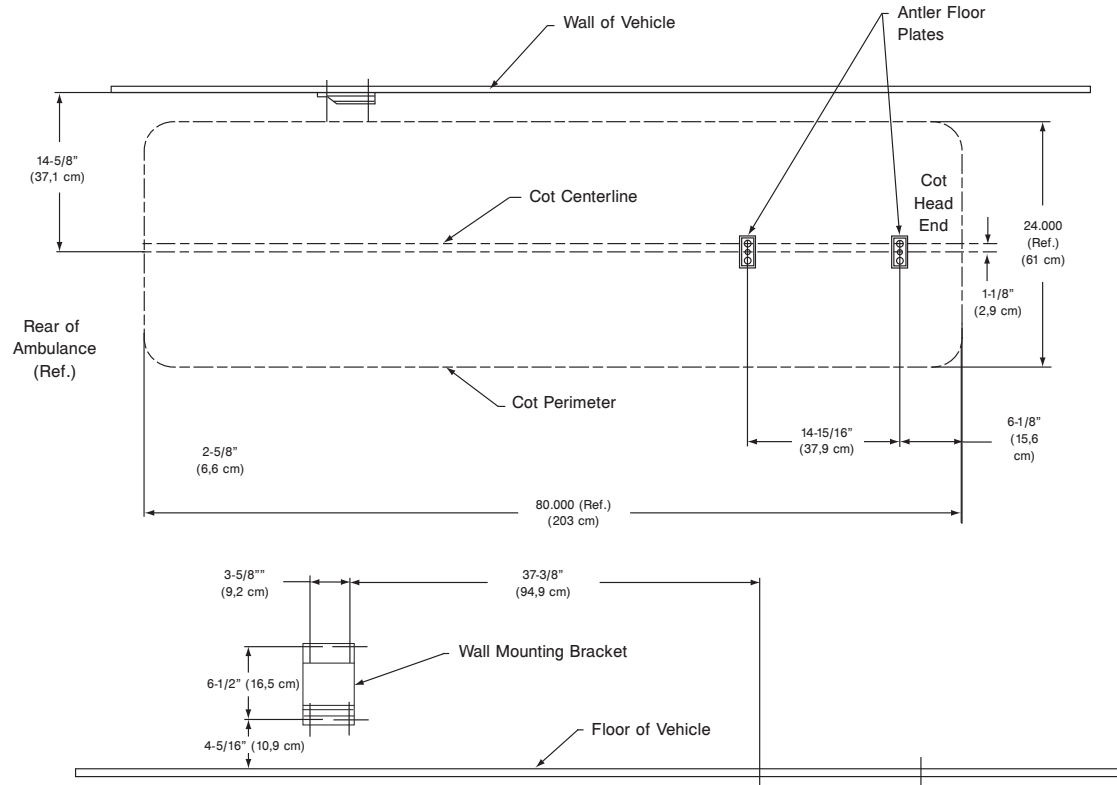
**Note:** Adjustment of the rail clamp assembly may be required in order to compensate for any variation in the cot retaining post position depending on the cot manufacturer and model number.

For more information about the Stryker Cot Fastener Systems, see the Cot Fastener Operations/Maintenance Manual (6370-009-001).

# Cot Fastener Installation



**Figure 5: Installation Specifications - Floor Mount Fastener**



**Figure 6: Installation Specifications - Wall Mount Fastener**



# Cot Fastener Installation

## INSTALLING THE IN-FASTENER SHUT-OFF

### 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.

1. Place the cot into a loading position (any position where the load wheels of the head section meet the vehicle floor height).
2. Lift the vehicle bumper to the raised position (if equipped).
3. Roll the cot to the open door of the patient compartment.
4. Push the cot forward until the load wheels are on the compartment floor and the safety bar passes the safety hook.
3. For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
4. Raise the base and push the cot into the patient compartment following the appropriate loading instructions.
5. Engage the **extended** head section of the cot into the cot fastener antler and secure the cot post into the fastener rail clamp.
6. Adjust the shut-off bracket along the rail clamp until the “diamond” on the sensor housing is lined up with the pop rivet head as shown in Figure 7.
7. Using a T27 Torx wrench, securely fasten the bolts to attach the shut-off bracket to the rail clamp assembly.
8. Press the retract (–) button to ensure that the motor does not turn on while the cot is in the fastener. The battery indicator will still illuminate. If the motor turns on, readjust the shut-off bracket.

**Note:** Align the ‘diamond’ (A) on the sensor housing cover with the pop rivet head (B) on the in-ambulance shut-off.

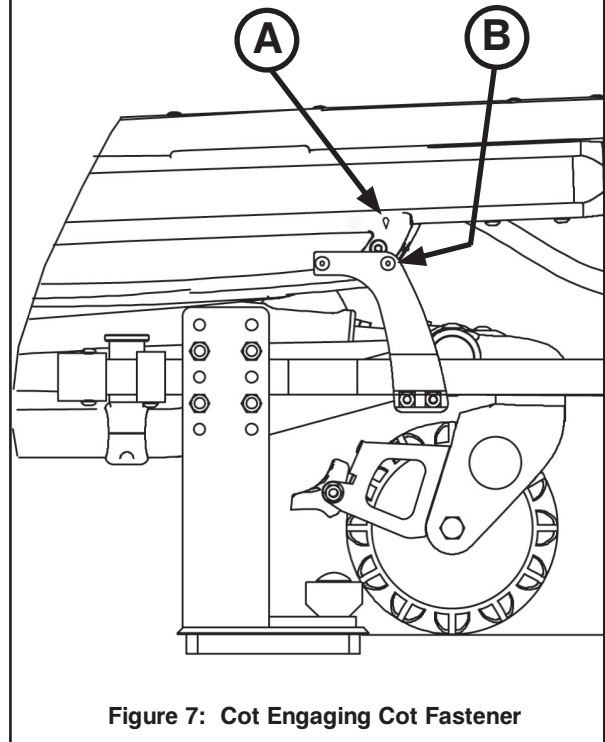


Figure 7: Cot Engaging Cot Fastener

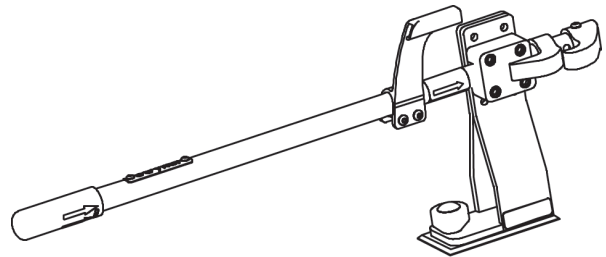


Figure 8: In-Fastener Shut-Off Module

### WARNING

- 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.

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# Vehicle Safety Hook Selection

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.

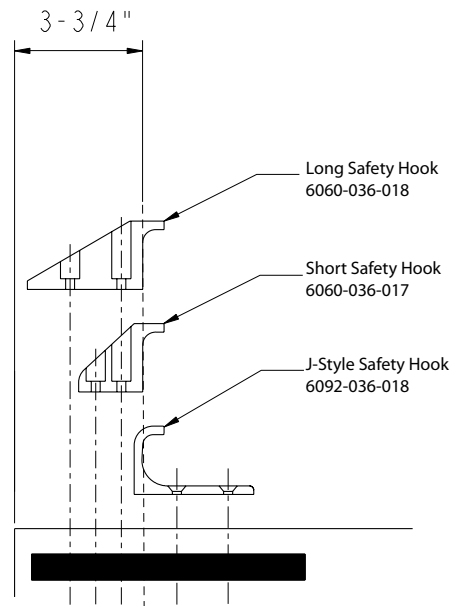
Stryker offers three different types of safety hooks that are ordered and shipped with your cot. These safety hook types are designed to meet the needs of various emergency vehicle configurations, specifically the length and location of the floor structure support that is located in the rear of the vehicle.

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.

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.



**Figure 9: Safety Hook Types**

# Vehicle Safety Hook Installation

## 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.

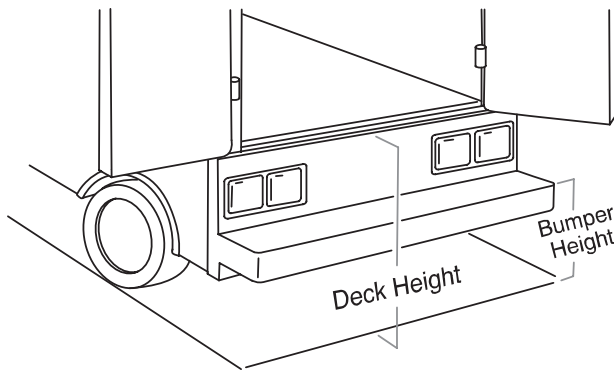


Figure 10.1: Vehicle Deck Height

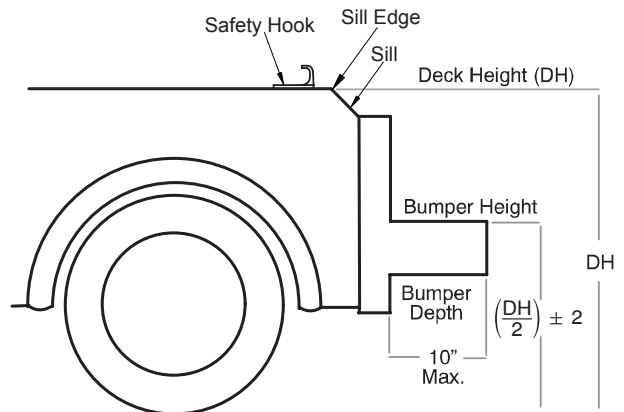


Figure 10.2: Vehicle Deck Height

### CAUTION

- 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, 1/4"-20 Socket Head Cap Screws\*
- (2) Grade 5, 1/4"-20 Flat Socket Head Cap Screws\*
- (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

## 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.
- Failure 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 sill. After installation, verify that the cot legs lock into the load position without contacting the vehicle bumper.
- 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

1. Select the appropriate safety hook for your vehicle configuration.
2. Position the safety hook at least 3-3/4" from the leading edge of the door sill.
3. 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.

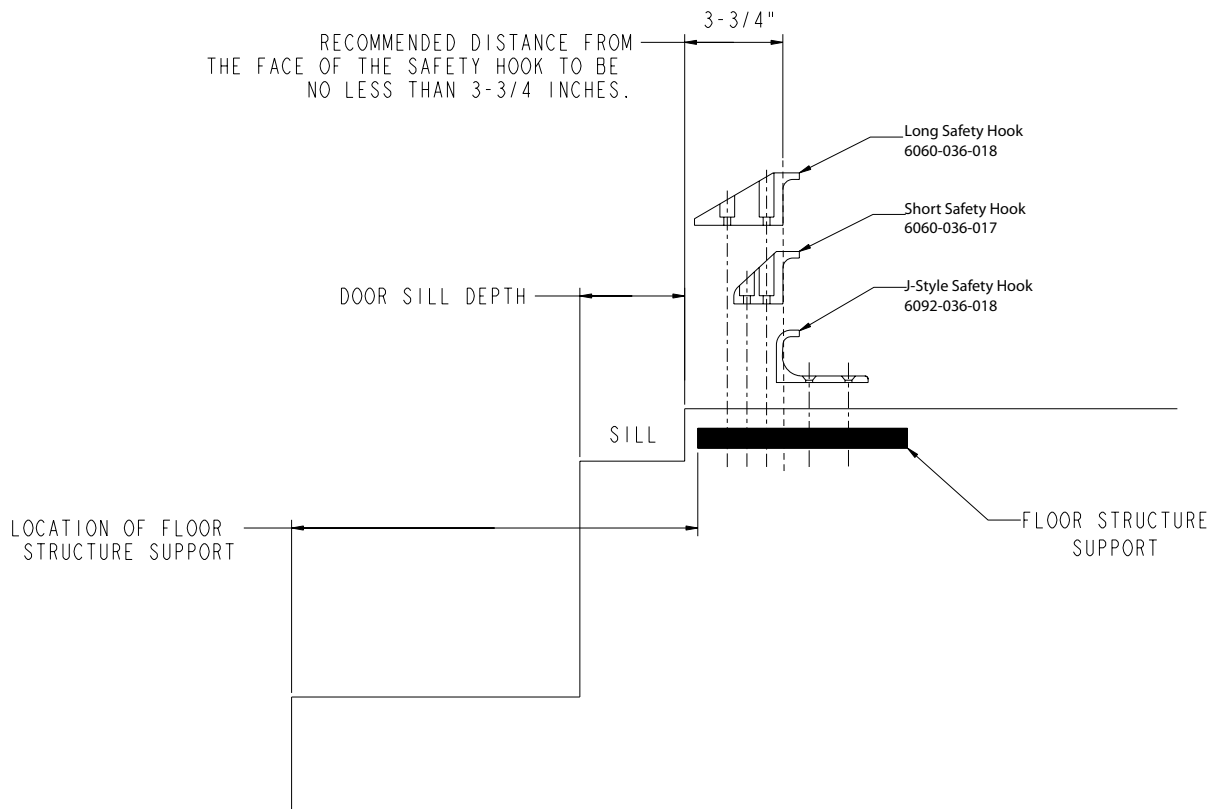


Figure 11: Safety Hook Placement

# Vehicle Safety Hook Installation

## SIDE TO SIDE POSITIONING OF THE SAFETY HOOK

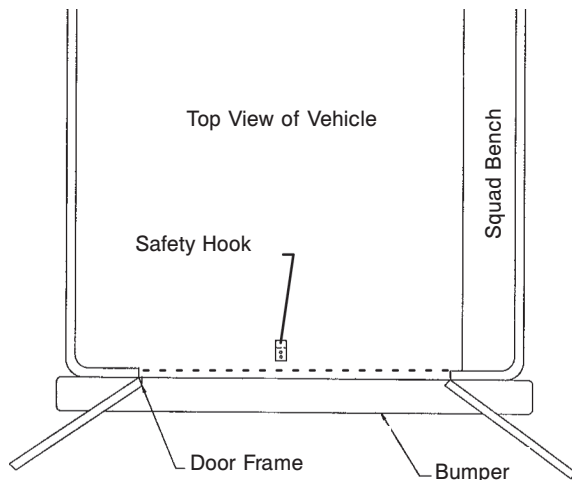
1. Remove the cot from the fastener and unload it from the vehicle.
2. While the cot is being removed, note the position of the load wheels and the safety bar.
3. Mark the center of the cot safety bar on the vehicle floor.
4. Verify that the position marked in Step 3 is where the safety bar engages the 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

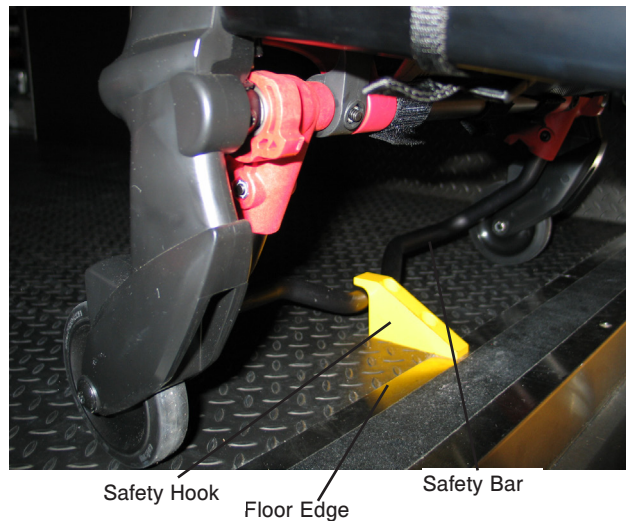
1. Determine the correct safety hook front to back and side to side positioning, so the cot safety bar engages the safety hook every time.
2. Drill the holes for the socket head cap screws.
3. Fasten the safety hook to the patient compartment floor and verify that the safety hook always engages the cot 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.



**Figure 12: Safety Hook Placement  
(For Reference Only)**



**Figure 13: Safety Bar Engaging Safety Hook**

### WARNING

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 bar from the safety hook. Failure to properly lock the cot into position can cause injury to the patient or operator and/or damage to the cot.

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# Operation Guide

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## OPERATING GUIDELINES

- Use the cot only as described in this manual.
- Read all labels and instructions on the cot before using the cot.
- Use a minimum of two (2) trained operators to operate the cot while a patient is on the cot. If additional assistance is needed, see “Using Additional Assistance” on [page 42](#).
- 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 lock(s) during patient transfer or without a patient on the cot.
- Use properly trained helpers, when necessary, to control the cot.

---

### WARNING

- Improper usage of the cot can cause injury to the patient or operator. Operate the cot only as described in this manual.
- Entanglement in powered cot mechanisms can cause serious injury. Operate the cot only when all persons are clear of the mechanisms.
- 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 cot.
- Any emergency vehicle to be used with this cot **must** have the in-fastener shut-off system installed (see [page 25](#)).

---

### CAUTION

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

---

## PROPER LIFTING TECHNIQUES

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

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

# Operation Guide

---

## ROLLING THE COT

When rolling the cot:

- Place the cot in any position for rolling.
- 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.

---

### **WARNING**

- Never leave a patient unattended on the cot or injury could result. Hold the cot securely while a patient is on the product.
  - Never apply the optional wheel lock(s) 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.
-

# Operation Guide

---

## ADJUSTING THE HEIGHT OF THE COT WITH TWO OPERATORS

Changing the height of the cot while a patient is on the cot requires a minimum of **two (2) trained operators** who are positioned at each end of the cot.

### To raise or lower the 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 detract (–) 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 rail until the cot is securely in the desired position.

---

### **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.
- 

**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. Once the button is released, press the extend (+) button again to “jog” 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.

---



# Operation Guide

## 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**.

### **WARNING**

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

### To load the cot into a vehicle with two operators:

1. 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 compartment floor and the safety bar passes the safety hook as shown in Figure 14.
5. For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
6. **Operator 2** – Verify that the bar engages the safety hook.
7. **Operator 1** – Grasp the cot frame at the foot end and press the retract (–) button until the undercarriage of the cot retracts fully.
8. **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).



**Figure 14: Safety Bar Engaging Safety Hook**

### **WARNING**

When using a standard 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.

# Operation Guide

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## LOADING THE COT INTO A VEHICLE WITH TWO OPERATORS AT THE FOOT END - POWERED METHOD

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### 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.

---

1. 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 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.
6. **Operator 1** – Grasp the cot frame at the foot end.
7. **Operator 2** – Verify that the bar engages the safety hook and return to the foot end.
8. **Both Operators** – Lift the cot together, while Operator 1 presses the retract (-) button until the undercarriage of the cot retracts fully.
9. **Both Operators** – Push the cot into the patient compartment, until the cot engages the cot fastener (not included).

## HIGH SPEED RETRACT/EXTEND

The cot is equipped with a high-speed retract mode to expedite loading/unloading 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 off of 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 off of the wheels. Press the extend (+) button to actuate the control switch.

### WARNING

- Whenever the weight of the cot and patient is off of the wheels, the cot will **automatically** enter the high speed retract mode if the retract (-) button is pressed.
  - Once the weight is off of the ground, the operator(s) 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.
-

# Operation Guide

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

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

---

### **WARNING**

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

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

1. Place the cot into a loading position (any position where the load wheels of the head section meet the vehicle floor height).
2. Lift the vehicle bumper to the raised position (if equipped).
3. Roll the cot to the open door of the patient compartment.
4. Push the cot forward until the load wheels are on the patient compartment floor and the safety bar passes the safety hook.
5. For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
6. Grasp the cot frame at the foot end and press the retract (-) button, until the undercarriage of the cot retracts into its highest position as shown in Figure 15.
7. Push the cot into the patient compartment until the cot engages the cot fastener (not included).



**Figure 15: Press the Retract Button**

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### **WARNING**

When using a standard 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.

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# Operation Guide

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

Unloading the cot from the vehicle while a patient is on the cot requires a minimum of **two (2) trained operators**, positioned at each end of the cot. Each operator must grasp the cot frame securely.

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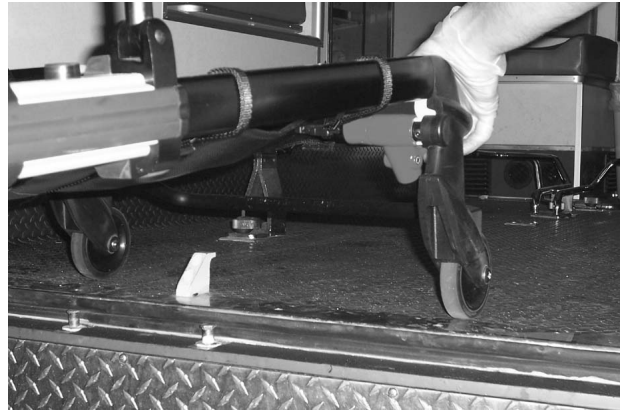
### **WARNING**

- To avoid injury, verify that the safety bar has engaged the safety hook before removing the cot from the patient compartment.
- 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.
- 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:

1. 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. **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.
4. **Operator 2** - Verify that the bar engages the safety hook.
5. **Operator 2** – Stabilize the cot during the unloading operation by securely grasping the outer rail.
6. **Operator 1** – Depress the extend (+) button to lower the undercarriage to its fully extended position.
7. **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 16.
8. Remove the load wheels from the patient compartment of the vehicle.



**Figure 16: Disengaging the Safety Bar**

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### **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 load height while the safety bar is engaged.
-

# Operation Guide

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## 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.

---

### WARNING

- 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:

1. 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. 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 17.
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.
7. Remove the load wheels from the patient compartment of the vehicle.



Figure 17: Press the Extend Button

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### CAUTION

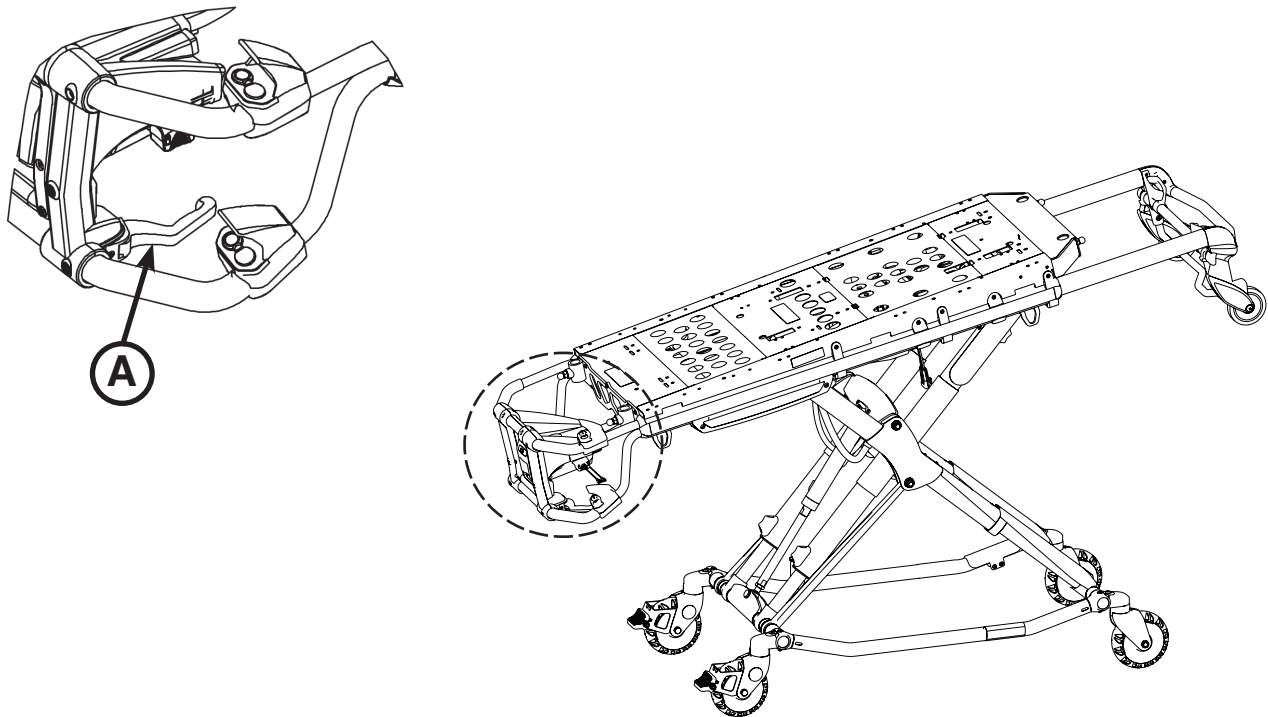
- When unloading the cot from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.
  - Do not “jog” the cot past the load height while the safety bar is engaged.
-

# Operation Guide

## 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 18.



**Figure 18: Manual Back-Up Release Handle**

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

1. **Both Operators** – Lift the cot during the raise/lower operation to support the weight of the cot at each end.
2. **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 lock the cot into position.

### Note:

- The operators must lift the cot weight slightly off of the wheels to use the manual extend or retract while a patient is on the cot.
- Activation of the manual back-up release handle may cause the cot to lower slowly if less than 40 pounds (18 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.

# Operation Guide

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## 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**.

---

### **WARNING**

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

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

1. 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.
6. **Operator 2** – Verify that the bar engages the safety hook.
7. **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.
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.
9. **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.

# Operation Guide

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

Unloading the cot from the vehicle while a patient is on the cot requires a minimum of **two (2) trained operators**, positioned at each end of the cot. Each operator must grasp the cot frame securely.

---

### **WARNING**

- To avoid injury, verify that the safety bar has engaged the safety hook before removing the cot from the patient compartment.
- 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 the cot from a vehicle with two operators:

1. 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. **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.
4. **Operator 2** - Verify that the bar engages the safety hook.
5. **Operator 2** – Stabilize the cot during the unloading operation by securely grasping the outer rail.
6. **Operator 2** – Pull the safety bar release lever forward to disengage the safety bar from the safety hook in the patient compartment (Figure 19).
7. Remove the load wheels from the patient compartment of the vehicle.



**Figure 19: Disengaging the Safety Bar**

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### **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.

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# Operation Guide

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## 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.

---

### **WARNING**

- 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:**

1. 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 24](#)).
3. 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 hook by pulling the safety bar release lever forward and roll the cot out of the vehicle.
7. Remove the load wheels from the patient compartment of the vehicle.

---

### **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.

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# Operation Guide

## USING ADDITIONAL ASSISTANCE

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

**⚠ 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.

# Operation Guide

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## REMOVING AND REPLACING THE BATTERY

The cot is supplied with two removable 24V SMRT Paks or 24V DeWALT® batteries as the power source.

See the SMRT Power System Operations/Maintenance manual (6500-009-101) for additional SMRT Pak and SMRT Charger information. See the DeWALT® Battery System manual for battery and charger information.

## REMOVING AND REPLACING A SMRT PAK

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### 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. Contact may cause injury to the patient or operator.
- 

### To remove the SMRT Pak:

1. 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 20.
2. Slide the released SMRT Pak out of the enclosure.

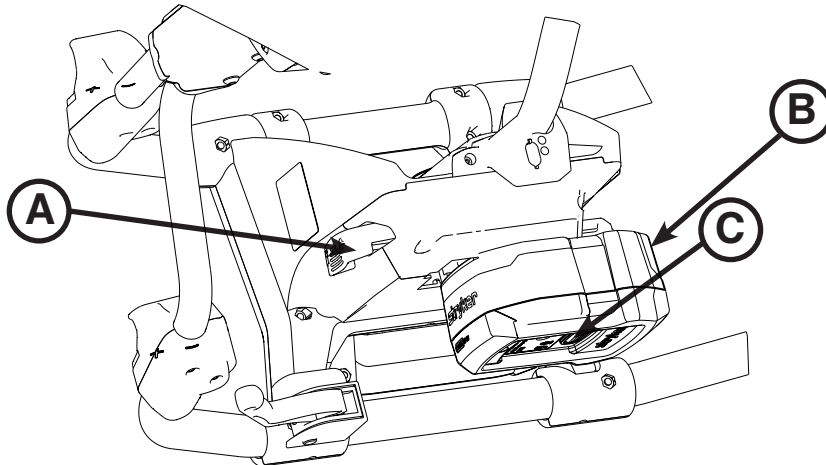


Figure 20: SMRT Pak Removal and Replacement

### To reinstall or replace the SMRT Pak:

1. Align the tabs in the battery enclosure.
2. Push the SMRT Pak into the enclosure until the latch clicks into place.
  - The cot power indicator LED is solid GREEN if the SMRT Pak is fully charged and ready.
  - The cot power indicator LED flashes RED if the SMRT Pak needs to be recharged or replaced.

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

---

### CAUTION

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

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# Operation Guide

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## REMOVING AND REPLACING A DeWALT® BATTERY

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### 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. Contact may cause injury to the patient or operator.
- 

### To remove the battery:

1. Press the red battery release button (A), located on the patient left side of the foot end control enclosure, to release the battery (B) from the cot as shown in Figure 21.
2. Slide the released battery out of the enclosure.

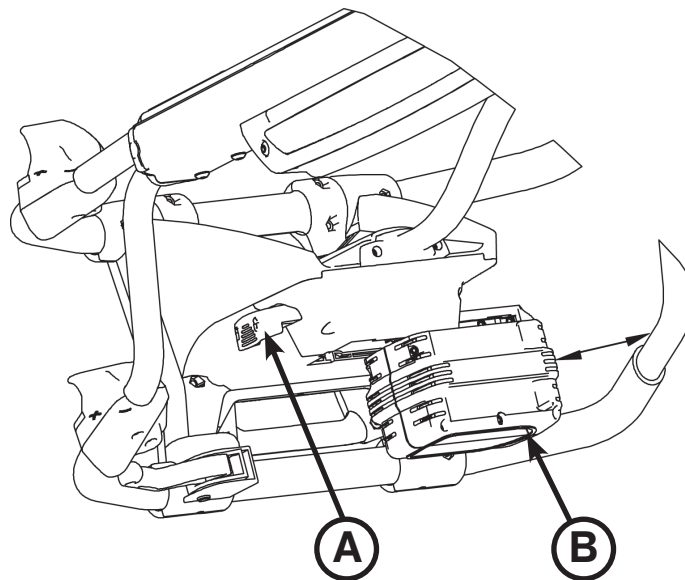


Figure 21: DeWALT® Battery Removal & Replacement

### To reinstall or replace the battery:

1. Align the tabs in the battery enclosure.
2. Push the battery into the enclosure until the latch clicks into place.
  - The cot power indicator LED is solid GREEN if the battery is fully charged and ready.
  - The cot power indicator LED flashes RED if the battery needs to be recharged or replaced.

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

### CAUTION

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

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# Operation Guide

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## USING THE BATTERY POWER INDICATOR

To check the battery power level, depress **lightly** on the retract (–) switch (A) to activate the power indicator LED (B) as shown in Figures 22.1 and 22.2.

The power indicator LED is located at the foot end control enclosure as shown in Figure 22.2, represented by a battery icon.

- The indicator LED is solid green when the battery is fully charged or has adequately charged battery power.
- The indicator LED flashes red when the battery needs to be recharged or replaced.

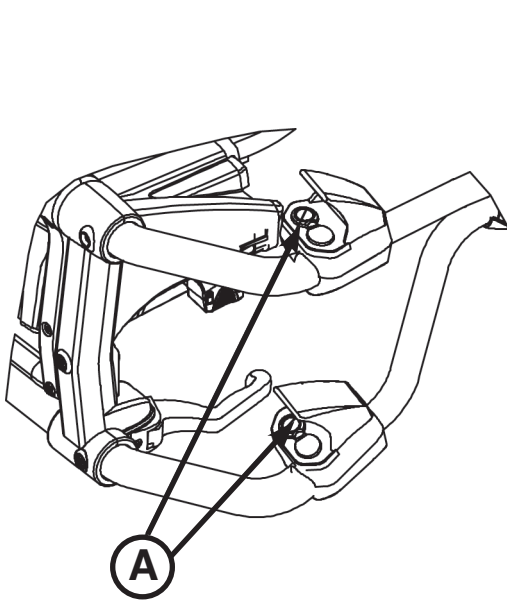


Figure 22.1: Retract Switches

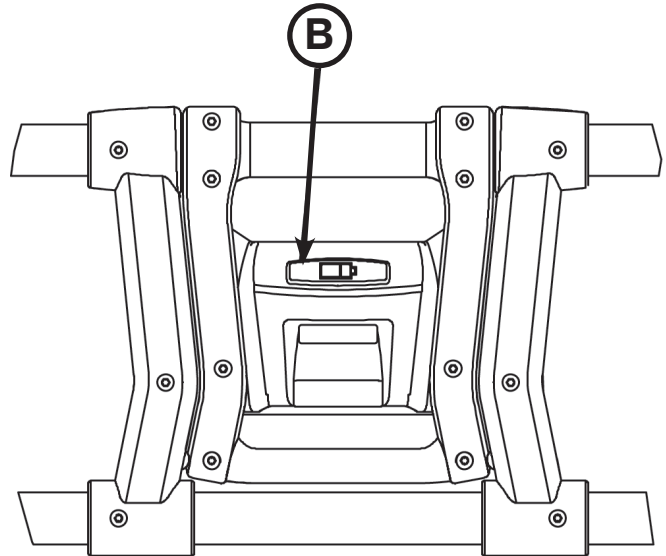


Figure 22.2: Power Indicator LED

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### 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. Contact may cause injury to the patient or operator.

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### CAUTION

- Only use the battery and charger as specified.
- 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.

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See the SMRT Power System Operations/Maintenance manual (6500-009-101) for additional SMRT Pak and SMRT Charger information. See the DeWALT® Battery System manual for battery and charger information.

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# Operation Guide

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## USING THE HOUR METER

The hour meter, located on the foot end control enclosure as shown in Figure 23, indicates the amount of time (HHH.H hours) that the hydraulics have been activated. You can use the hour meter to determine the frequency for preventative maintenance procedures as listed on [page 59](#).

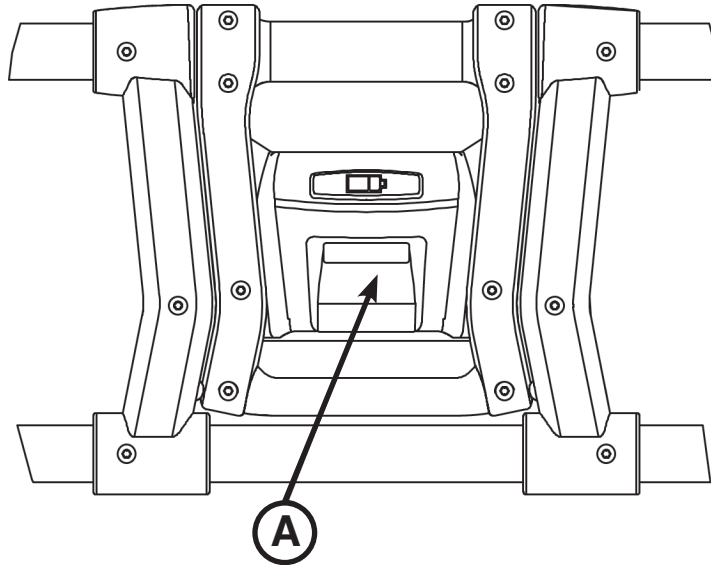


Figure 23: Hour Meter

# Operation Guide

## 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:

1. Grasp the outer rail with one hand for support and pull the lever (A), rotating the lever toward the head end of the cot to release the head section from the locked position.
2. While 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.
3. Release lever (A) to lock the head section in the extended position.

### To retract the head section:

1. Grasp the outer rail with one hand for support and release the lever (A), rotate the lever toward the head end of the cot to release the head section from the locked position.
2. While 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.
3. Release lever (A) to lock the head section in the retracted position.

### WARNING

- To avoid injury, always verify that the head section is locked into place prior to operating the cot.
- When using a standard cot fastener, 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.

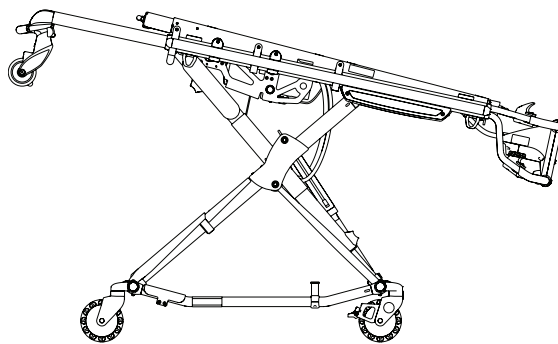


Figure 24.1 - Head Section Extended

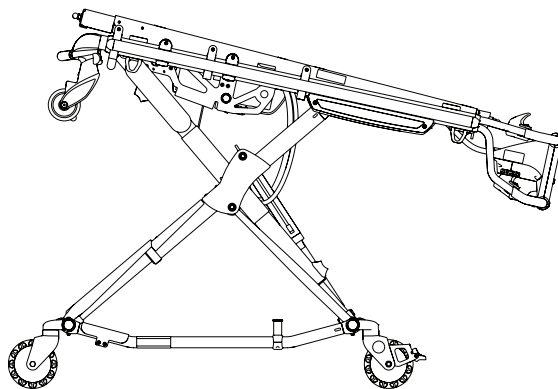


Figure 24.2 - Head Section Retracted

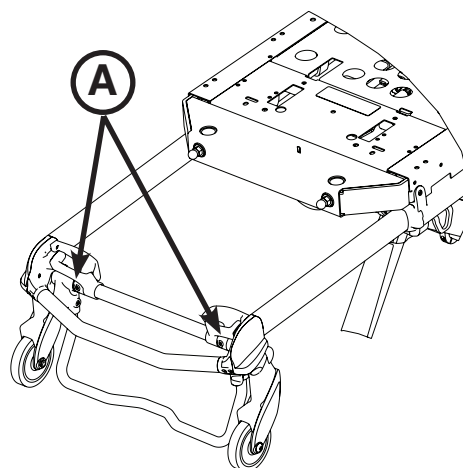


Figure 24.3 - Head Section Release Handles

# Operation Guide

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## OPERATING THE OPTIONAL WHEEL LOCK(S)

To activate the optional wheel lock(s), press fully down on the pedal (A) as shown in Figure 25 until it stops and is resting firmly against the surface of the wheel.

To release the optional wheel lock(s), 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.

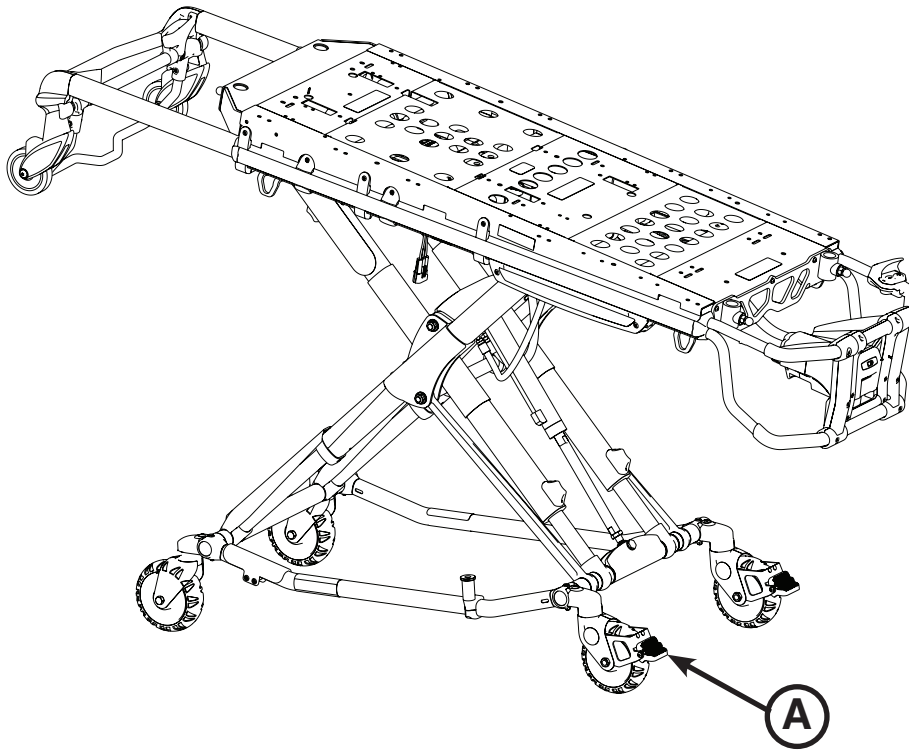


Figure 25 - Wheel Lock

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### WARNING

- Never apply the optional wheel lock(s) 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.

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### CAUTION

Wheel lock(s) 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.

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# Cot Operation

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## INSTALLING THE OPTIONAL HEAD END STORAGE FLAT

To install the optional head end storage flat (see Figure 26):

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

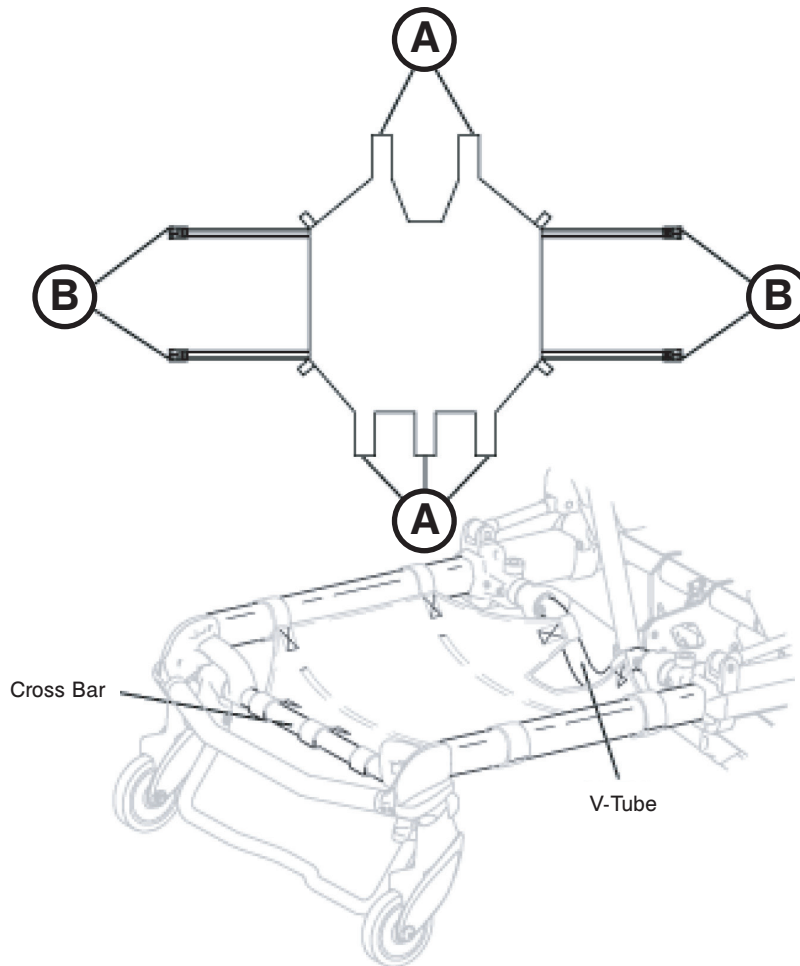


Figure 26: Head End Storage Flat

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### 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.

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### CAUTION

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

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# Cot Operation

## INSTALLING AND REMOVING THE INCUBATOR ADAPTOR

**Note:**

- If the adaptor was ordered with the model 6510 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 6510 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 6510 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 each adaptor.
3. Align the adaptor assembly with the mounting holes in the Power-PRO™ IT cot as shown in the appropriate illustration.
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 Tool(s)
Airborne™ Side By Side	<a href="#">page 114</a>	<ul style="list-style-type: none"><li>• 5/32" Allen Wrench</li><li>• 3/16" Allen Wrench</li><li>• 1/2" Socket &amp; Ratchet</li></ul>
Drager®	<a href="#">page 120</a>	<ul style="list-style-type: none"><li>• 5/32" Allen Wrench</li><li>• 3/16" Allen Wrench</li></ul>
Airborne™ Stackable	<a href="#">page 124</a>	<ul style="list-style-type: none"><li>• 1/2" Socket &amp; Ratchet</li></ul>
Air Sled (No Adaptor Option)	<a href="#">page 126</a>	<ul style="list-style-type: none"><li>• 1/2" Socket &amp; Ratchet</li></ul>

**Table 1.0**

Incubator	Page
Airborne™ Side By Side	<a href="#">page 51</a>
Drager®	<a href="#">page 52</a>
Airborne™ Stackable	<a href="#">page 54</a>
Air Sled (No Adaptor Option)	<a href="#">page 55</a>

**Table 2.0**

 **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.

# Cot Operation

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

Prior to installing the Airborne™ Side By Side Incubator on the model 6510 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator.

### WARNING

The Airborne™ Side By Side Incubator adaptor (6510-028-000) is designed to secure only Airborne™ incubators to the model 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6510 Power-PRO™ IT cot or using any unapproved incubators on this adaptor may result in damage to the cot and/or injury to the patient or user.

#### To install the incubator:

1. Push down on latch tab (A) to release latch tab (B) as shown in Figure 27.1.
2. Pull down on latch tab (B) and open each of the latches on the four corners of the incubator.
3. 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.

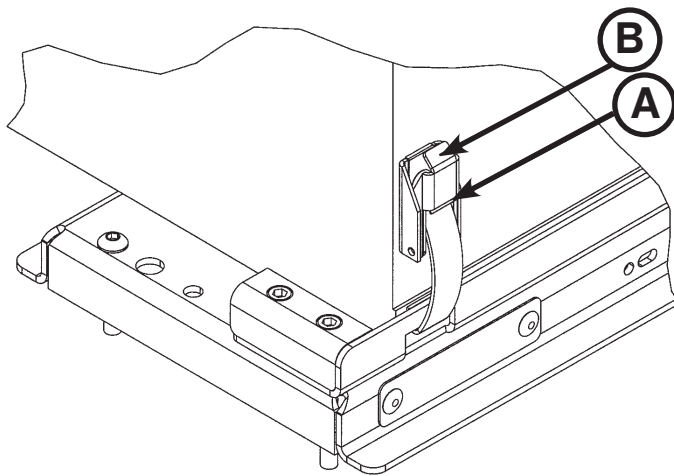


Figure 27.1: Airborne™ Side By Side Incubator

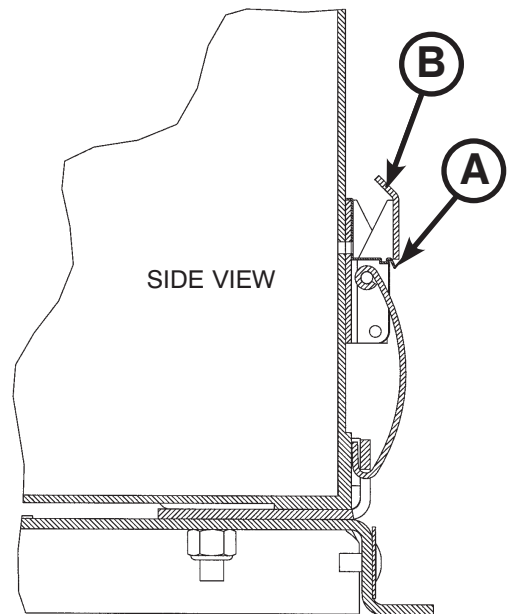


Figure 27.2: Latch Tabs - Side View

### 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.

# Cot Operation

## INSTALLING THE DRAGER® INCUBATOR

Prior to installing the Drager® Incubator on the model 6510 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator.

### WARNING

- The Drager® Incubator adaptor (6510-029-000) is designed to secure only Drager® incubators to the 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6510 Power-PRO™ IT cot or using any unapproved incubators on this adaptor 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.

### 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 adaptor as shown in Figure 28.
2. Place the incubator on the adaptor. Align the holes in the incubator with the four pins (C) on the adaptor (only 2 of the 4 pins are shown).
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.).

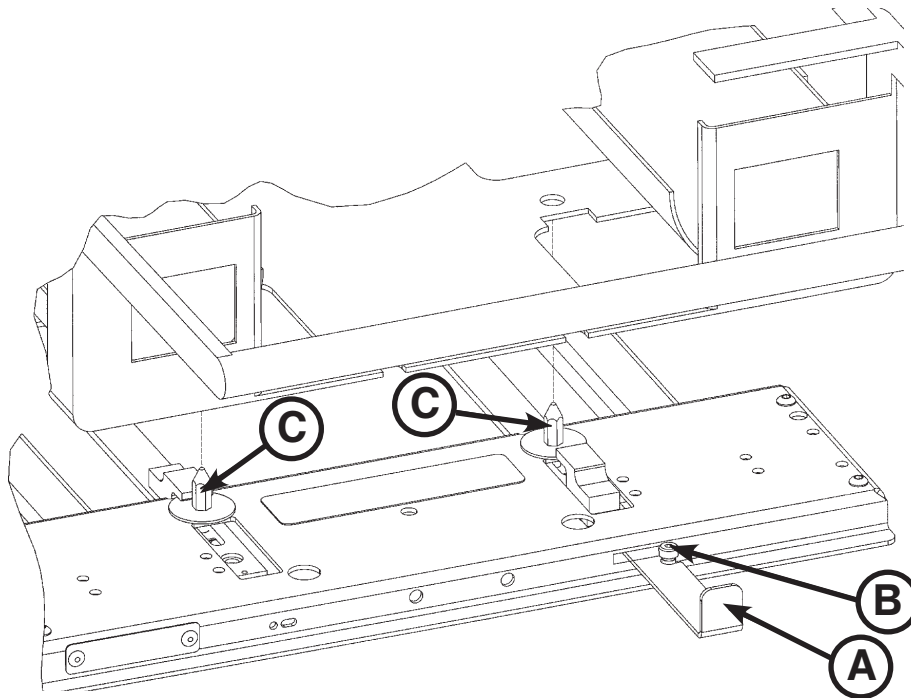


Figure 28: Drager® Incubator

# Cot Operation

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## INSTALLING THE DRAGER® INCUBATOR (CONTINUED)

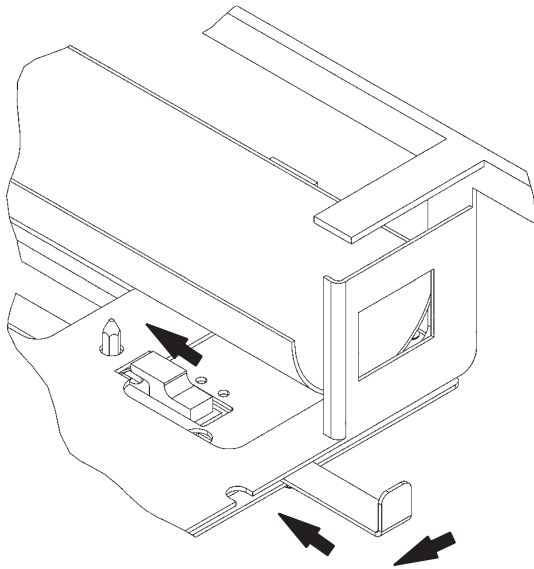
Figures 29.1 and 29.2 show the incubator in the unlocked and locked positions.

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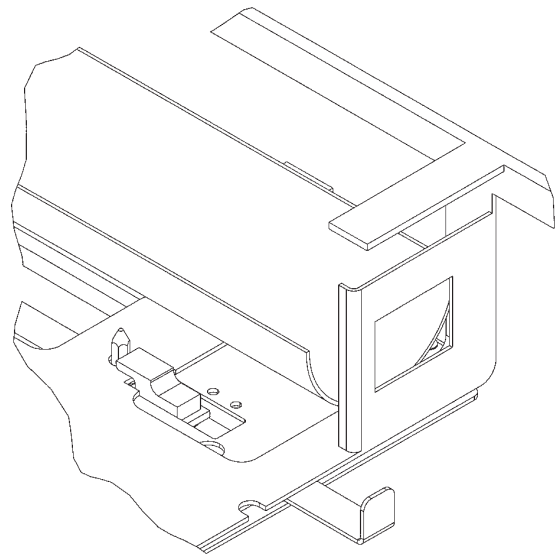
**⚠ WARNING**

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.

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**Figure 29.1: Unlocked Position**



**Figure 29.2: Locked Position**

# Cot Operation

## INSTALLING THE AIRBORNE™ STACKABLE

Prior to installing the Airborne™ Stackable on the model 6510 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator.

### WARNING

The Airborne™ Stackable adaptor (6510-027-000) adaptor is designed to secure only an Airborne Stackable to the model 6510 Power-PRO™ IT cot. Using this adaptor on any cot other than the model 6510 or using any unapproved incubators or stackables on this adaptor 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 studs (B) on the adaptor as shown in Figure 30.
2. Locate the mounting holes in the bottom of the oxygen bottle module (C).
3. Install the oxygen bottle holder on the adaptor mounting studs (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.

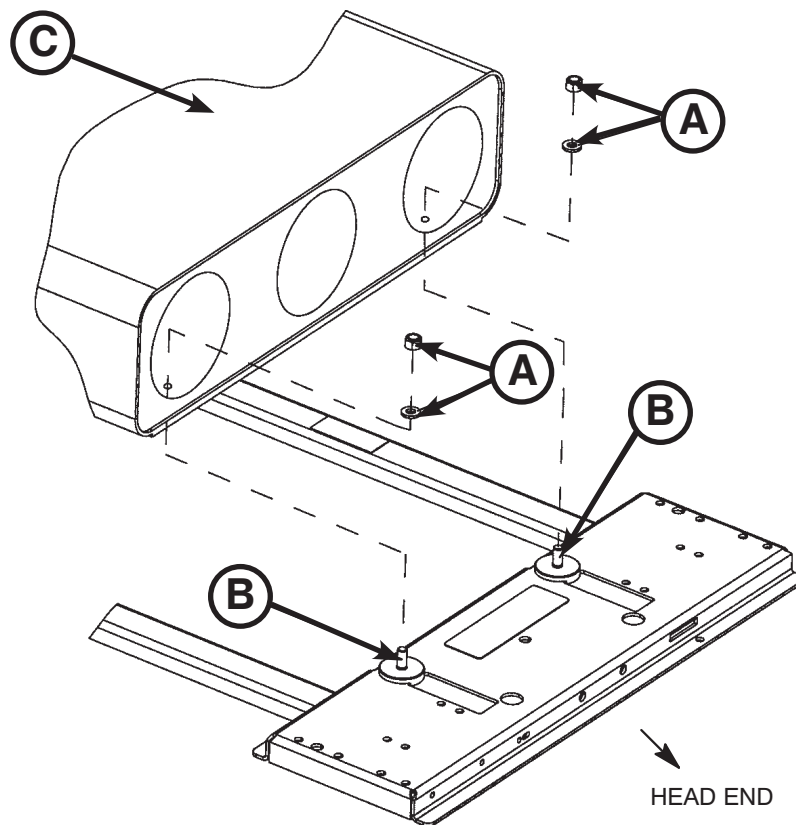


Figure 30: Airborne™ Stackable

### WARNING

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.

# Cot Operation

## INSTALLING THE AIR SLED WITH A SLED RECEPTACLE

Prior to installing the Air Sled on the model 6510 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).

### WARNING

- The Air Sled, no adaptor option, (6510-042-000) is designed to secure incubators without an adaptor to the model 6510 Power-PRO™ IT cot. Using this configuration on any cot other than the model 6510 Power-PRO™ IT cot or using any unapproved incubators on this adaptor 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.

### To install the incubator:

1. Use the supplied fasteners to bolt the receptacle to the litter frame as shown in Figure 31.
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.

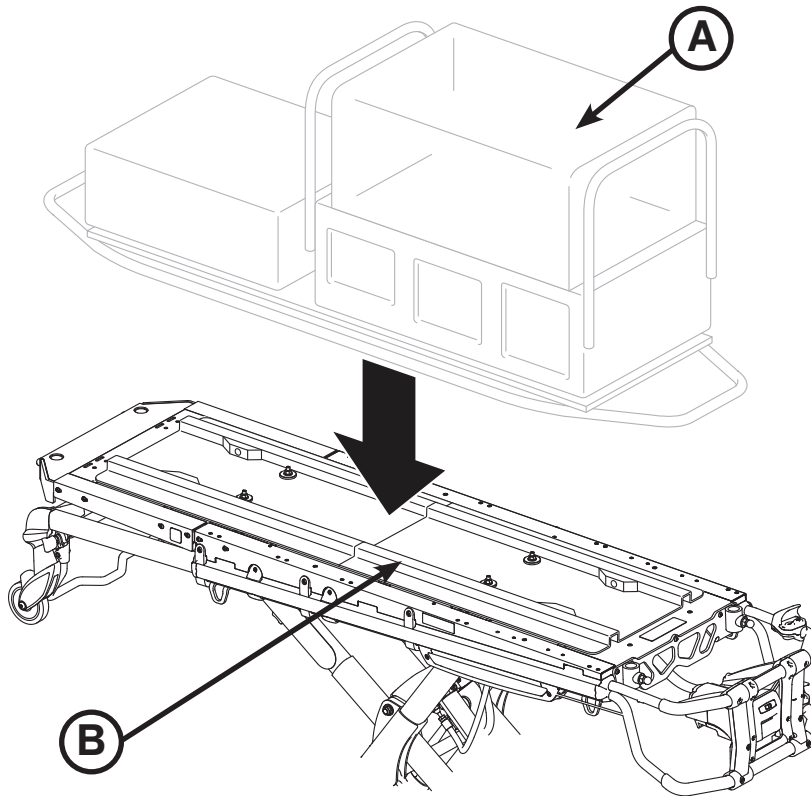


Figure 31: Air Sled Installation

# Cot Operation

## SECURING THE AIR SLED

Prior to installing the Air Sled on the on the model 6510 Power-PRO™ IT cot, read and understand this manual and the manual supplied with the incubator. These instructions explain how to secure the Air Sled to the litter surface of the model 6510 Power-PRO™ IT cot with straps.

### WARNING

- The Air Sled, no adaptor option, (6510-042-000) is designed to secure incubators without an adaptor to the model 6510 Power-PRO™ IT cot. Using this configuration on any cot other than the model 6510 Power-PRO™ IT cot or using any unapproved incubators on this adaptor 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.

### To secure the air sled to the litter surface:

1. Attach the straps (not supplied), as shown in Figure 32, to secure the Air Sled to the litter surface (A).
2. Ensure that the straps (B) are secured from the head end push bars to the Air Sled (Figure 32).
3. Confirm that the Air Sled is secured to the cot as shown in Figure 33.

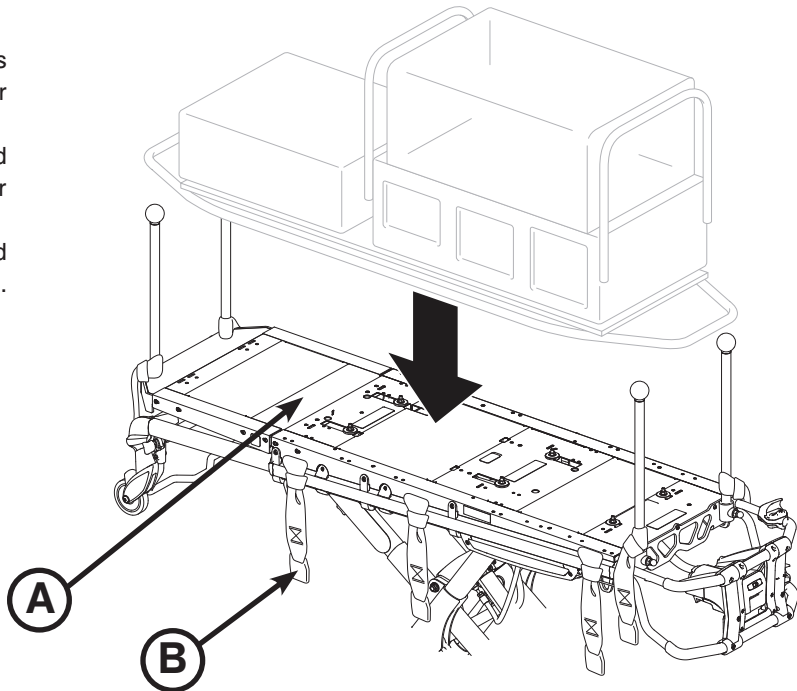


Figure 32

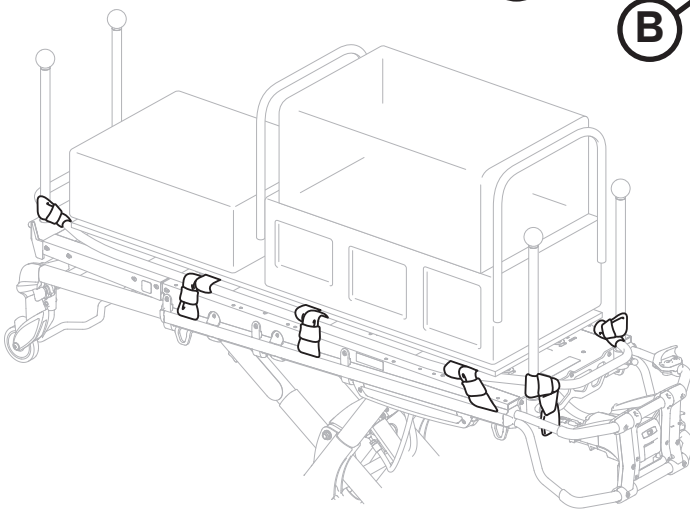


Figure 33



# Cleaning

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The Power-PRO™ IT cot is designed to be power washable. The unit may show some signs of oxidation or discoloration 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

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### WARNING

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 air dry temperature (cart washers) should not exceed 240°F/115°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.
  - 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. Iodophor 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.

---

## **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 insure 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:** Failure to follow the above directions when using these types of cleaners may void this product's warranty (see [page 141](#)).

## **REMOVAL OF IODINE COMPOUNDS**

Use a solution of 1/2 Tablespoon Sodium Thiosulfate in a pint 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

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Preventative maintenance should be performed at a minimum of annually. 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 62](#) 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 59](#).

---

## 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 141](#)).
  - 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 141](#)).
  - Failure 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 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.

---

## CAUTION

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 141](#)).

---

# Preventative Maintenance

## 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 (see [page 46](#)) to determine the frequency for preventative maintenance procedures.

Item	Routine	Every (whichever comes first)			
		1 Month or 2 hours	3 Months or 6 hours	6 Months or 12 hours	12 Months or 24 hours
Settings	Verify the in-fastener shut-off is configured properly	X			
	Verify the cot and fastener fit and function properly				X
	Verify the safety bar engages the vehicle safety hook properly				X
Cylinder	All fasteners are secure (reference all assembly drawings)		X		
	Verify the cylinder is adjusted so the lock nut is tight and the cot stops moving when it hits the dead stops				X
	Inspect for and verify that there are no hydraulic fluid (red) leaks; inspect the fittings and tighten as necessary		X		
	Extend cylinder rod completely and wipe down rod with soft cloth and household cleaner	X			
Hydraulics	Inspect motor mount and verify that all fasteners are secure		X		
	Verify that there are no hydraulic fluid leaks		X		
	Inspect the reservoir and verify that there are no leaks		X		
	Inspect hoses and fittings for damage or wear; replace as necessary			X	
Electronic Controls	Verify the hydraulic velocity fuse - Place a weight of approximately 50 pounds 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 cot does not drop			X	
	Extend cot to raised position, measure and check load height			X	
Switches	Verify "jog" function is operating			X	
	Verify high speed retract is working			X	
	Verify there is no damage or wear to either switch			X	
Cables/Wires	Verify both switches operate correctly - Replace if necessary			X	
	Verify there is no damage or pinching of wiring harness, cables or lines		X		
	Check routing(s) and connection(s), verify there are no hanging wires	X			
	Verify there are no damaged connectors, replace if necessary		X		

# Preventative Maintenance

Item	Routine	Every (whichever comes first)				
		1 Month or 2 hours	3 Months or 6 hours	6 Months or 12 hours	12 Months or 24 hours	
Manual Back-up Release Handle	Verify that the manual back-up release handle functions properly	X				
	Verify the manual back-up release handle returns to the stowed position				X	
	Verify the base extends/retracts smoothly when the manual back-up release handle is engaged		X			
	With 100 pounds or more on the cot, verify the cot does not lower when the manual backup release handle is pulled		X			
Litter	Inspect the cot frame/litter	X				
	Verify all welds intact, not cracked or broken				X	
	Verify no bent, broken or damaged components			X		
	Verify all fasteners secure (reference all assembly drawings)		X			
	Verify warning labels present, legible (reference assembly drawings)				X	
	Verify no damage or tears on cot grips			X		
Adjust pneumatic cylinder for full range of motion, if required		X				
Base	Inspect the cot frame/base	X				
	Verify all welds intact, not cracked or broken				X	
	Verify no bent, broken, or damaged components			X		
	Verify all fasteners secure		X			
Wheels	Verify no excessive damage to X-frame guards, replace if necessary			X		
	Verify wheels are free of debris			X		
	Verify tires in good condition				X	
	Verify all wheels secure, rolling and swiveling properly	X				
X-Frame	Check and adjust optional wheel locks as necessary				X	
	Verify smooth operation of X-frame		X			
Head Section	Verify all fasteners secure		X			
	Verify no bent, broken, or damaged components			X		
	Verify the head section extends and locks properly		X			
	Verify the grip bar has no excessive damage or tears			X		
	Verify load wheels are secure and roll properly			X		
	Verify the safety bar operates properly	X				

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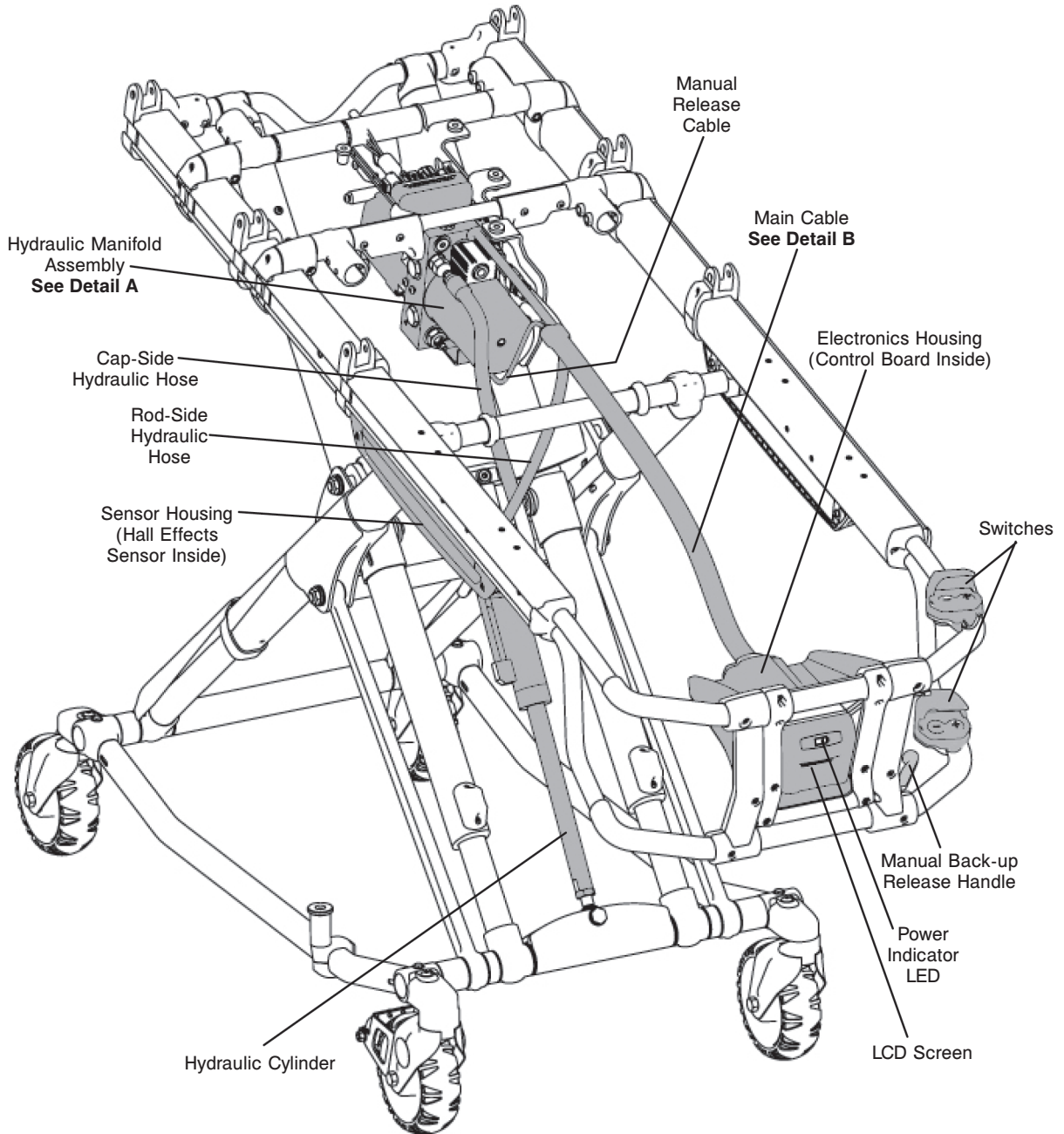




# Troubleshooting Guide

## ELECTRONICS AND HYDRAULICS LOCATOR

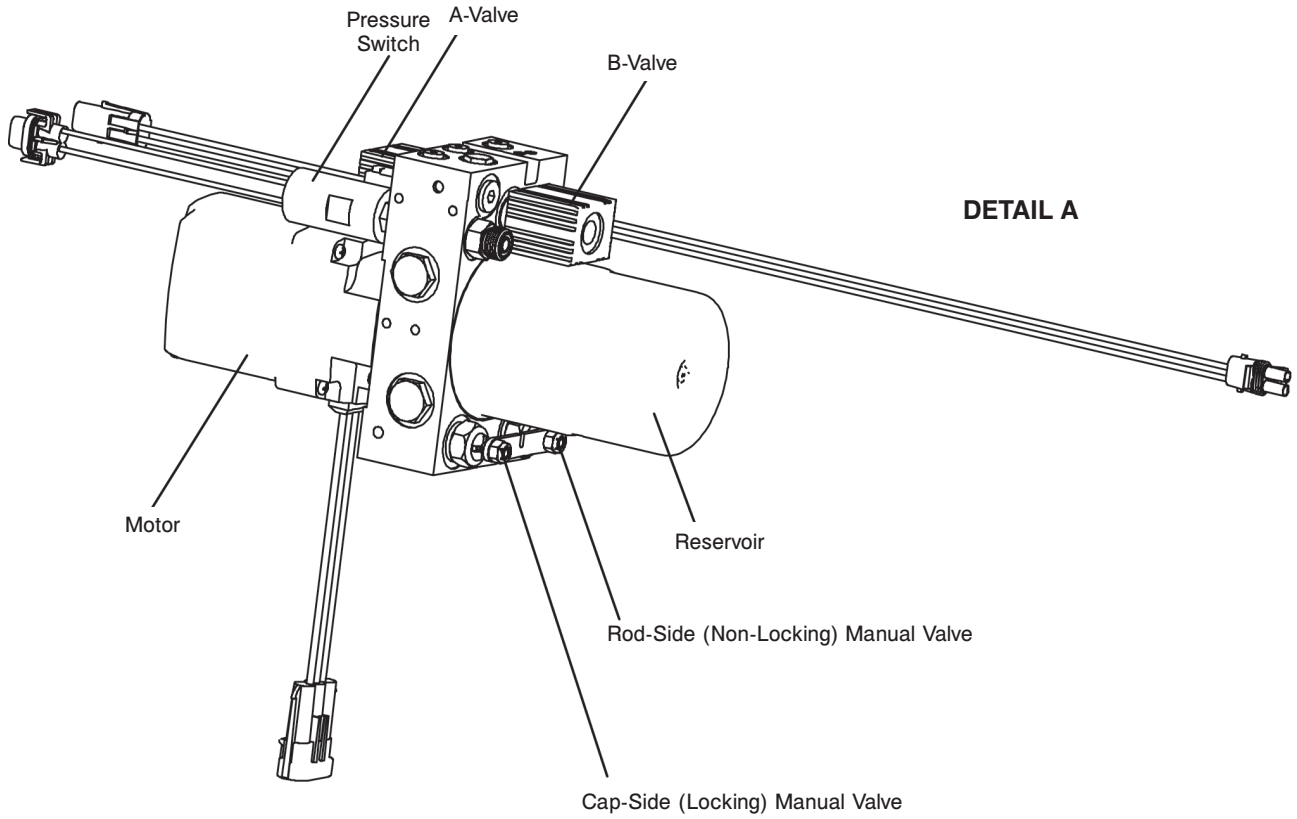
**Note:** Some components have been removed for clarity.





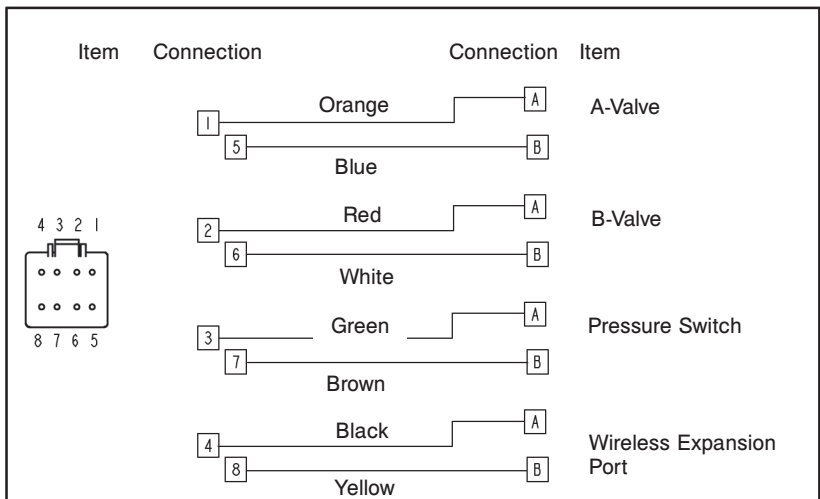
# Troubleshooting Guide

## HYDRAULIC MANIFOLD COMPONENTS LOCATOR



### DETAIL B

#### Wiring Schematics Main Cable 8-Pin Connector

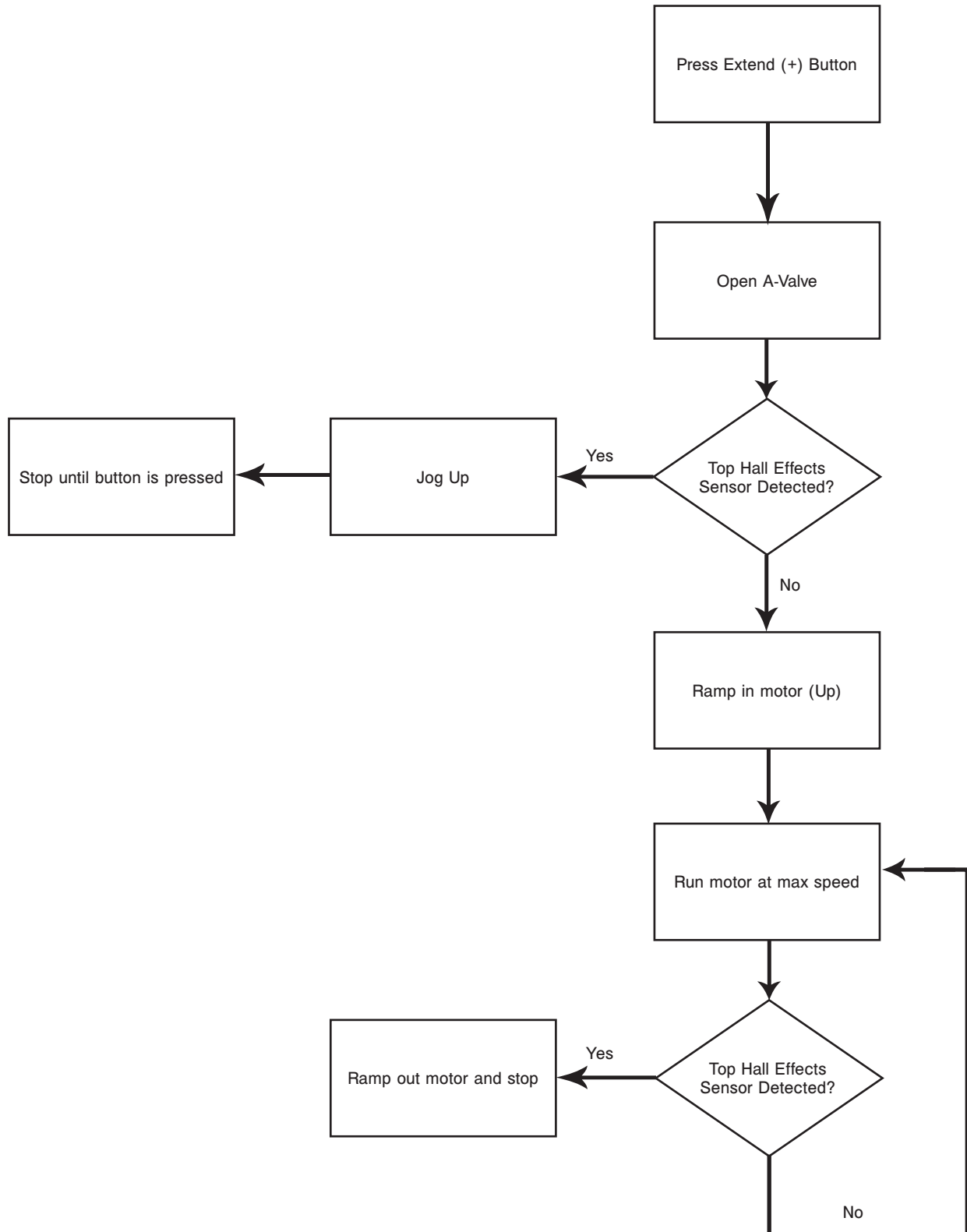


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# Troubleshooting Guide

## ELECTRICAL SYSTEM BLOCK DIAGRAM

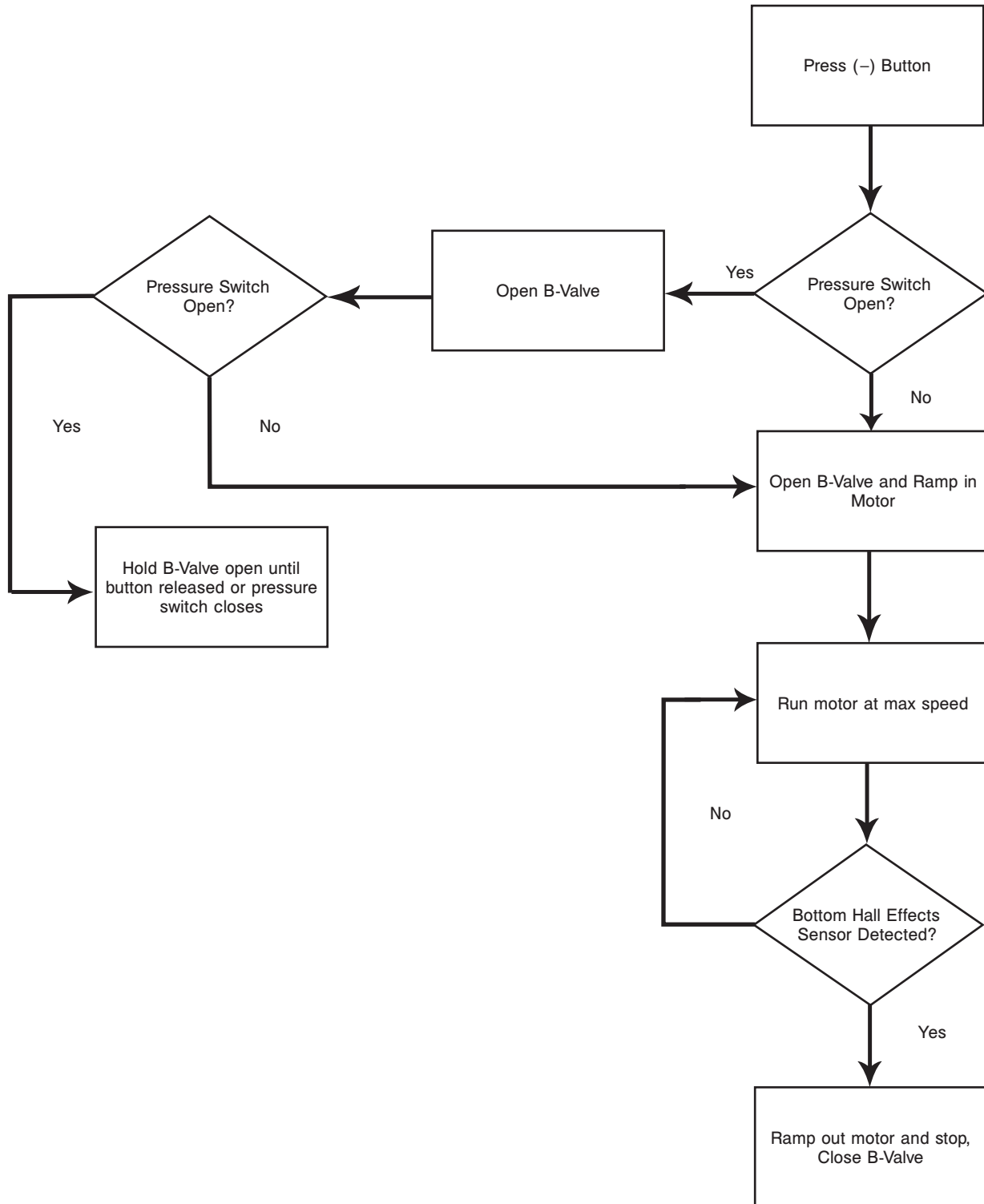
Lift and Extend (Unload) Functions



# Troubleshooting Guide

## Electrical System Block Diagram

### 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 troubleshooting, please contact a service technician at (800) 327-0770 or (269) 324-6500.

PROBLEM	SOLUTION	PAGE(S)
Litter drifts (without patient weight).	<ol style="list-style-type: none"> <li>1. Flush the hydraulic system by squeezing the manual release handle while simultaneously pressing the (+) power button for approximately 15 seconds. Repeat if necessary.</li> <li>2. Check manual release cable adjustment.</li> <li>3. Change 'locking' manual valve.</li> <li>4. Change 'B' valve.</li> </ol>	
Base drifts (without patient weight).	<ol style="list-style-type: none"> <li>1. Flush the hydraulic system by squeezing the manual release handle while simultaneously pressing the (+) power button for approximately 15 seconds. Repeat if necessary.</li> <li>2. Check manual release cable adjustment.</li> <li>3. Change 'non-locking' manual valve.</li> <li>4. Change 'A' valve.</li> </ol>	
Litter does not lower in the powered mode.	<ol style="list-style-type: none"> <li>1. Check power indicator LED.               <ol style="list-style-type: none"> <li>A. If blinking constant RED, change battery.</li> <li>B. If blinking a patterned RED short, short, long flash:                   <ol style="list-style-type: none"> <li>i. Check for broken or disconnected wires.</li> <li>ii. Check for 24 VDC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effect sensor, solenoid, and or 'B' valve. If voltage is not present, go to step iii.</li> <li>iii. Check for 24 VDC 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.</li> </ol> </li> <li>C. If the GREEN light turns on, but does not lower, try the other switch. If the other switch works, replace the bad switch.</li> </ol> </li> </ol>	<a href="#">page 71,</a> <a href="#">page 72</a>

# Troubleshooting Guide

## TROUBLESHOOTING GUIDE (CONTINUED)

PROBLEM	SOLUTION	PAGE(S)
<p>Litter does not extend in the powered mode.</p>	<ol style="list-style-type: none"> <li>1. Check power indicator LED.               <ol style="list-style-type: none"> <li>A. If blinking constant RED, change battery.</li> <li>B. If blinking a patterned RED short, short, long flash:                   <ol style="list-style-type: none"> <li>i. Check for broken or disconnected wires.</li> <li>ii. Check for 24 VDC at connector (B) on the main cable by the motor while pressing the extend (+) button. If voltage is present, replace (in order) the hall effect sensor, solenoid, and or 'A' valve. If voltage is not present, go to step iii.</li> <li>iii. Check for 24 VDC on electronics assembly pins 2 white and 6 red on (F) while pressing the extend (+) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness.</li> </ol> </li> <li>C. If the GREEN light turns on, but does not lower, try the other switch. If the other switch works, replace the bad switch.</li> </ol> </li> <li>2. Check motor.               <ol style="list-style-type: none"> <li>A. If the motor runs, but does not raise the cot:                   <ol style="list-style-type: none"> <li>i. Check the manual release cable for too much tension.</li> <li>ii. Lightly tap the manual locking valve.</li> <li>iii. Replace the manual locking valve.</li> </ol> </li> <li>B. If the motor is stalled, replace the 'A' valve.</li> <li>C. If the light is GREEN, but the motor does not run                   <ol style="list-style-type: none"> <li>i. Check for 24 VDC at connector (E) on the main cable. If voltage is present, replace the hall effect sensor. If the hall effect sensor is replaced, and the motor still does not run, replace the hydraulic sub assembly. If voltage is not present, go to step ii.</li> <li>ii. Check for 24 VDC on electronics assembly connection (H) (-) lead on black (+) lead on green while pressing the extend (+) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the main cable.</li> </ol> </li> </ol> </li> </ol>	<p><a href="#">page 71,</a> <a href="#">page 72</a></p>

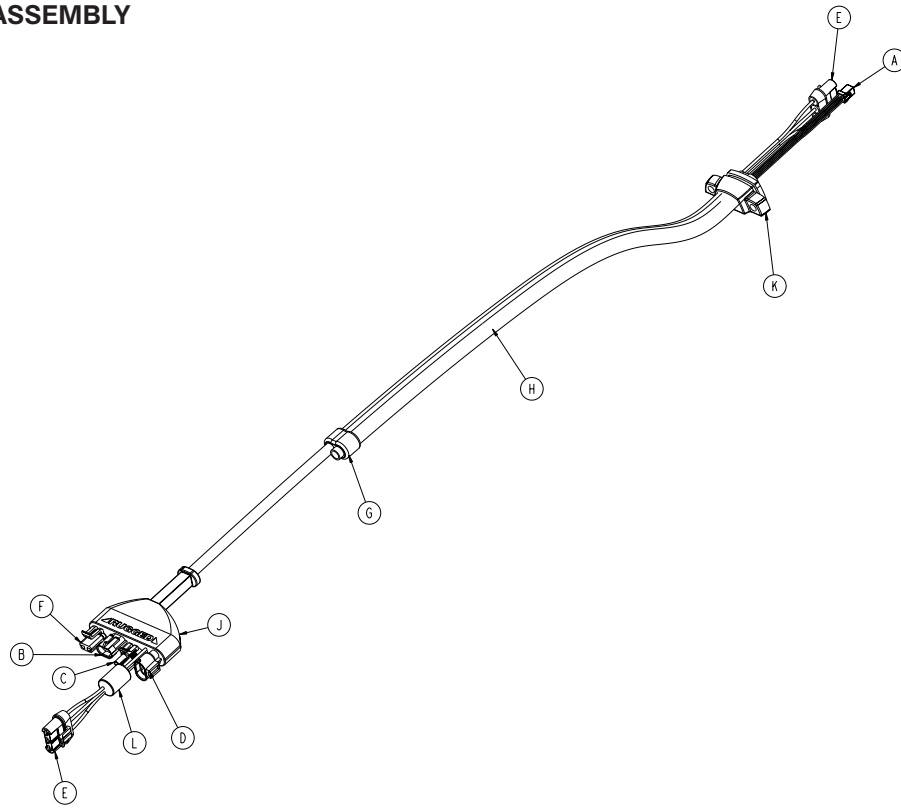
# Troubleshooting Guide

## TROUBLESHOOTING GUIDE (CONTINUED)

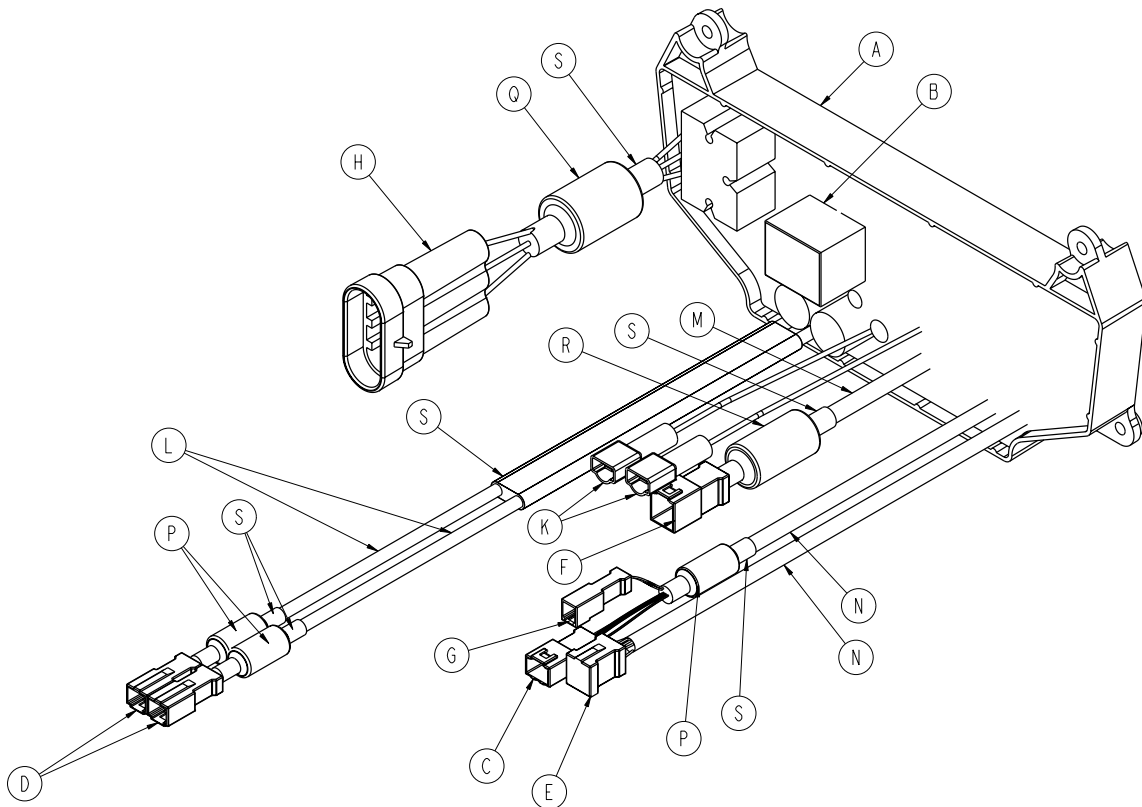
PROBLEM	SOLUTION	PAGE(S)
Base does not retract in the powered mode.	<ol style="list-style-type: none"> <li>1. Check power indicator LED.               <ol style="list-style-type: none"> <li>A. If blinking constant RED, change battery.</li> <li>B. If blinking a patterned RED short, short, long flash:                   <ol style="list-style-type: none"> <li>i. Check for broken or disconnected wires.</li> <li>ii. Check for 24 VDC at connector (B) on the main cable by the motor while pressing the extend (+) button. If voltage is present, replace (in order) the hall effect sensor, solenoid, and or 'A' valve. If voltage is not present, go to step iii.</li> <li>iii. Check for 24 VDC on electronics assembly pins 2 white and 6 red on (F) while pressing the (+a) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness.</li> </ol> </li> </ol> </li> </ol>	<a href="#">page 71,</a> <a href="#">page 72</a>
Base does not extend in the manual mode.	<ol style="list-style-type: none"> <li>1. Check manual cable adjustment.</li> <li>2. Change 'non-locking' manual valve.</li> </ol>	
Base does not retract in the manual mode.	<ol style="list-style-type: none"> <li>1. Check manual release cable adjustment.</li> <li>2. Change 'locking' manual valve.</li> </ol>	
Litter does not retract in the manual mode (with patient weight).	<ol style="list-style-type: none"> <li>1. Make sure that the weight is off of the casters before lowering the cot.</li> <li>2. Check manual cable adjustment.</li> <li>3. Replace 'locking' manual valve.</li> </ol>	
Litter does not extend in the manual mode.	<ol style="list-style-type: none"> <li>1. Check manual cable adjustment.</li> <li>2. Change 'non-locking' manual valve.</li> </ol>	
High Speed retract does not engage.	<ol style="list-style-type: none"> <li>1. Check that weight is off of the casters.</li> <li>2. Change pressure switch.</li> <li>3. Change hall effect cable.</li> </ol>	

# Troubleshooting Guide

## MAIN CABLE ASSEMBLY



## ELECTRONICS ASSEMBLY



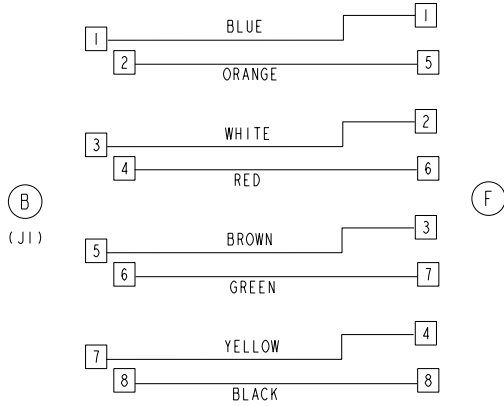
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# Troubleshooting Guide

## ELECTRONICS ASSEMBLY WIRING SCHEMATICS

ITEM	CONNECTION	CONNECTION	ITEM
------	------------	------------	------

### HYDRAULICS - 22 AWG

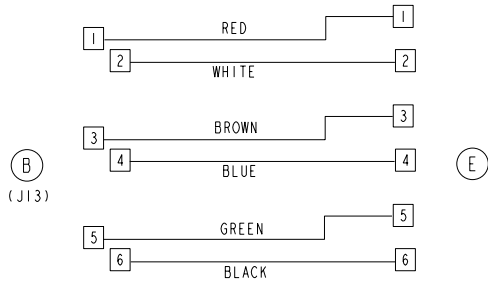


### SWITCH - 22 AWG

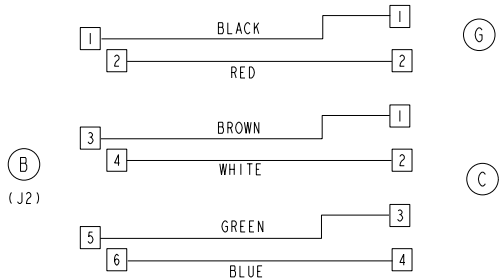


ITEM	CONNECTION	CONNECTION	ITEM
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### HAND HELD PROGRAMMER - 22 AWG



### HALL-EFFECT SENSOR - 22 AWG



ITEM	CONNECTION	CONNECTION	ITEM
------	------------	------------	------

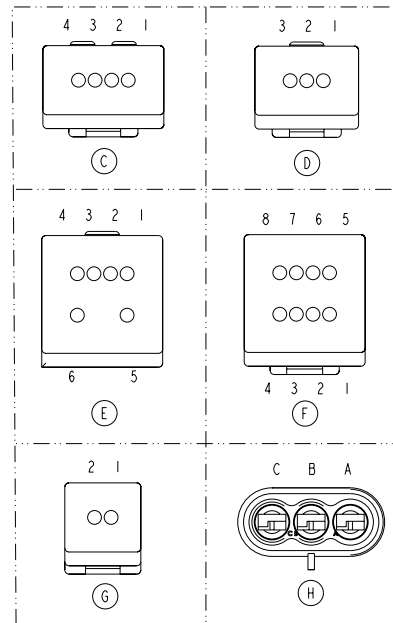
### MOTOR CABLE - 14 AWG



### BATTERY POSITIVE - 14 AWG



### BATTERY NEGATIVE - 14 AWG





# Quick Reference Replacement Parts List

The parts and accessories listed on this page 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 Name	Part Number
Base Storage Net	6500-160-000
DC Battery Charger, 110V, Domestic	6500-070-000
DC Battery Charger 12V/24V, In-Ambulance	6500-072-000
Hydraulic Oil	6500-001-293
Kit, Battery Pack, SMRT Pak	6500-700-046
Kit, SMRT Power System 12 VDC (Car Charger), includes charger, 2 paks, and power cord	6500-700-040
Kit, SMRT Power System 120 Vac (Wall Charger), includes charger, 2 paks, and power cord	6500-700-041
Kit, Battery Pack, DeWALT® 24V NiCd	6500-700-006
Kit, Battery Charger, DeWALT® 12 VDC (Car Charger)	6500-700-009
Kit, Battery Charger, DeWALT® 120 Vac (Wall Charger)	6500-700-007
Kit, Battery Charger, DeWALT® 240 Vac (International Wall Charger)	6500-700-008
Label, Base, "Lift Here"	6080-090-108
Label, "Do Not Lubricate"	6252-001-137
Label, Oxygen Caution	6500-001-201
Label, Warning	6510-001-121
Label, Warning - Brake	6080-090-101
Label, Weight Capacity	6510-001-117
Manual, Installation/Operation, Cot Fastener	6370-009-001
Safety Hook, Long	6060-036-017
Safety Hook, Short	6060-036-018
Safety Hook, J Hook	6092-036-018
Storage Flat, Head End	6500-128-000
Switch, Control	6500-101-016
Touch-Up Paint (Yellow)	6060-199-010
Touch-Up Paint (Black)	7000-001-322
Wheel Lock	6082-200-010

# Service Information

---

## MANUAL RELEASE CABLE ADJUSTMENT

### Tools Required:

- 8 mm Combination Wrench
- 10 mm Wrench

### Procedure:

1. Support the litter so no weight is on the base.
2. Ensure that the cable is intact.
3. Using a 10 mm wrench, loosen the cable lock nut.
4. Using a 8 mm hex wrench, adjust the tension on the manual release cable.
5. Tighten cable lock nut.

## FILLING THE RESERVOIR

**Use only Mobil Mercon® Synthetic Blend Oil (6500-001-293)**

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

### Tools Required:

- 3/16" Allen Wrench

### Procedure:

1. Raise the cot to the full up position.
2. Ensure that the fill port is horizontal and lined up with the hole in the motor mount.
3. Remove the port plug using a 3/16" Allen wrench.
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.

# Service Information

## WHEEL LOCKING FORCE ADJUSTMENT

### Tools Required:

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

### Procedure:

1. Using the 5/32" Allen 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).
2. 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.
3. Using the 5/32" Allen 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 the cot to service.



## COT RETAINING POST ADJUSTMENT

### Tools Required:

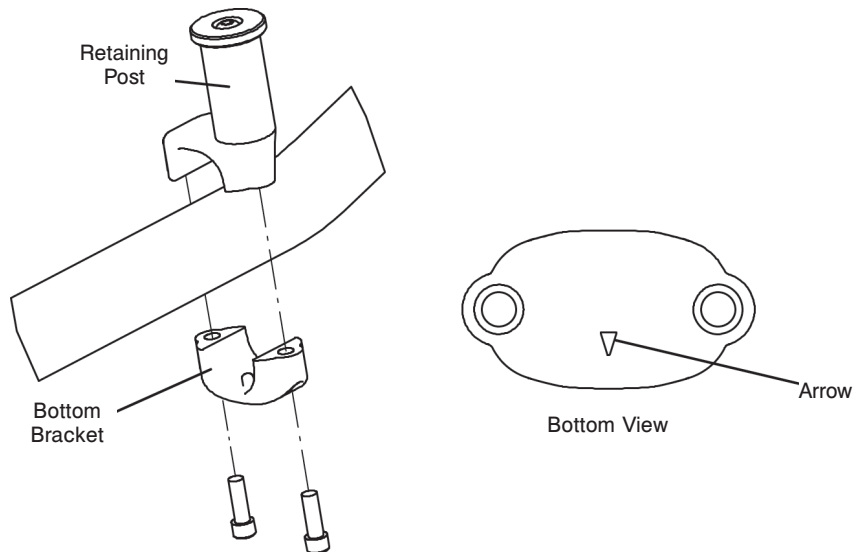
- 3/16" Allen Wrench

### CAUTION

The cot retaining post comes preconfigured for an X-frame cot, if the fastener has been configured for an H-frame style cot, the cot retaining post must be adjusted to accommodate the fastener.

### Procedure:

1. Using a 3/16" Allen wrench, remove the bolts that hold the two retaining post brackets to the base frame.
2. Turn the bottom bracket 180°.
3. Using a 3/16" Allen wrench, reinstall the bolts that were removed in step 1.

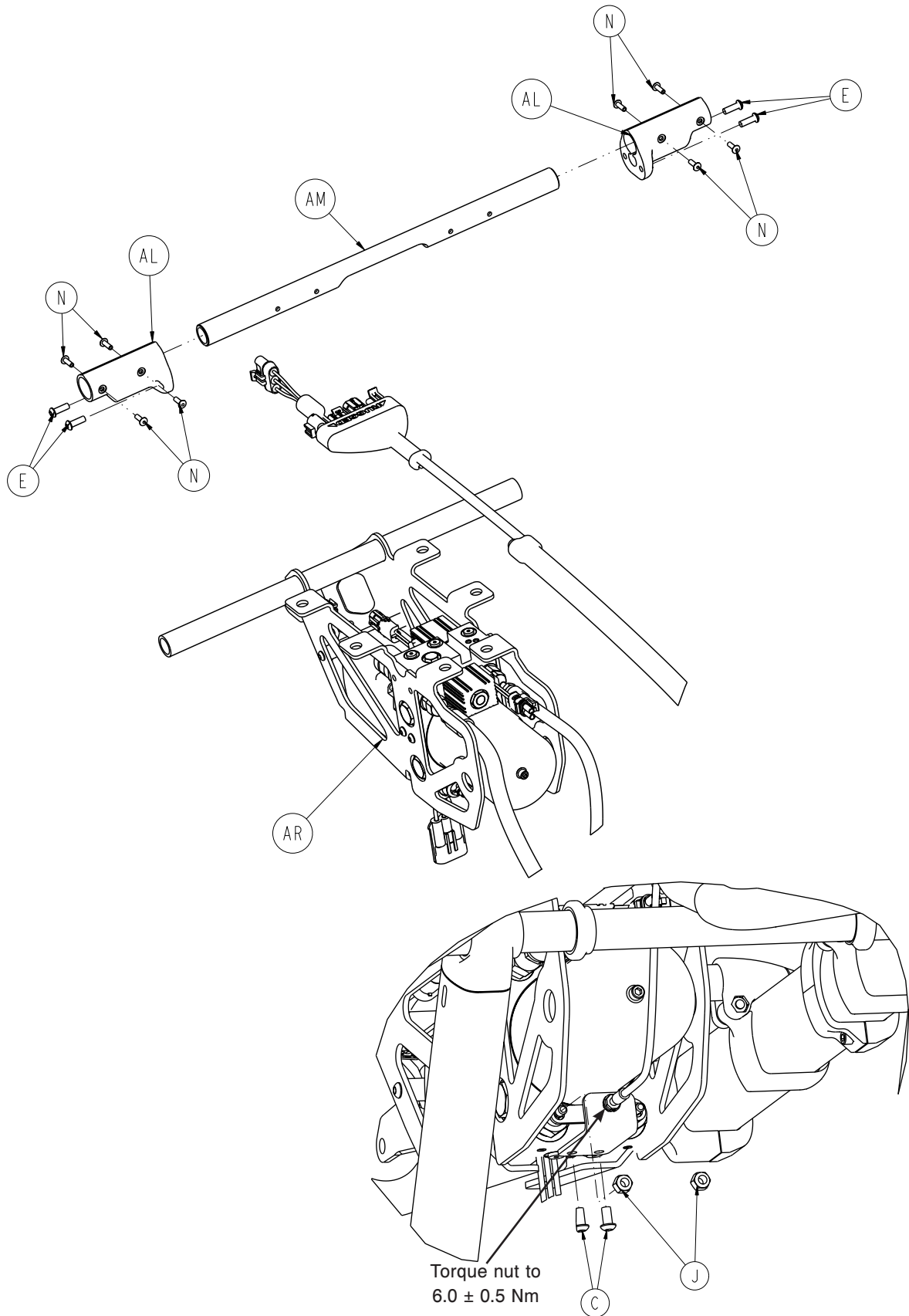


**Note:** If the arrow on the bottom bracket of the retaining post points toward the head end of the cot, the retaining post is set for an X-frame style cot. If the arrow points toward the foot end of the cot the post is set for an H-frame style cot.

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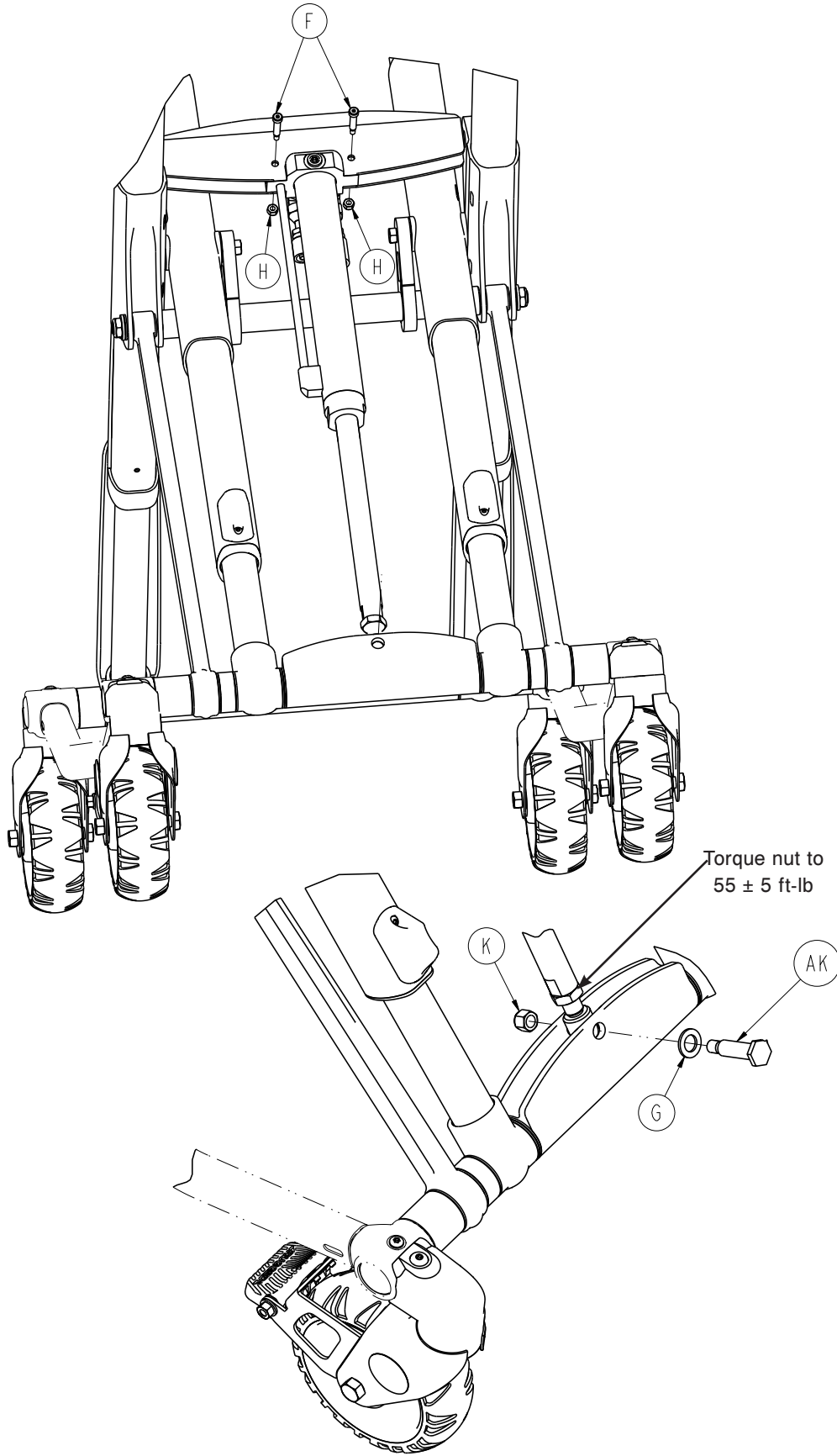
# Cot Assembly

6510-101-010 Rev A (Reference Only)



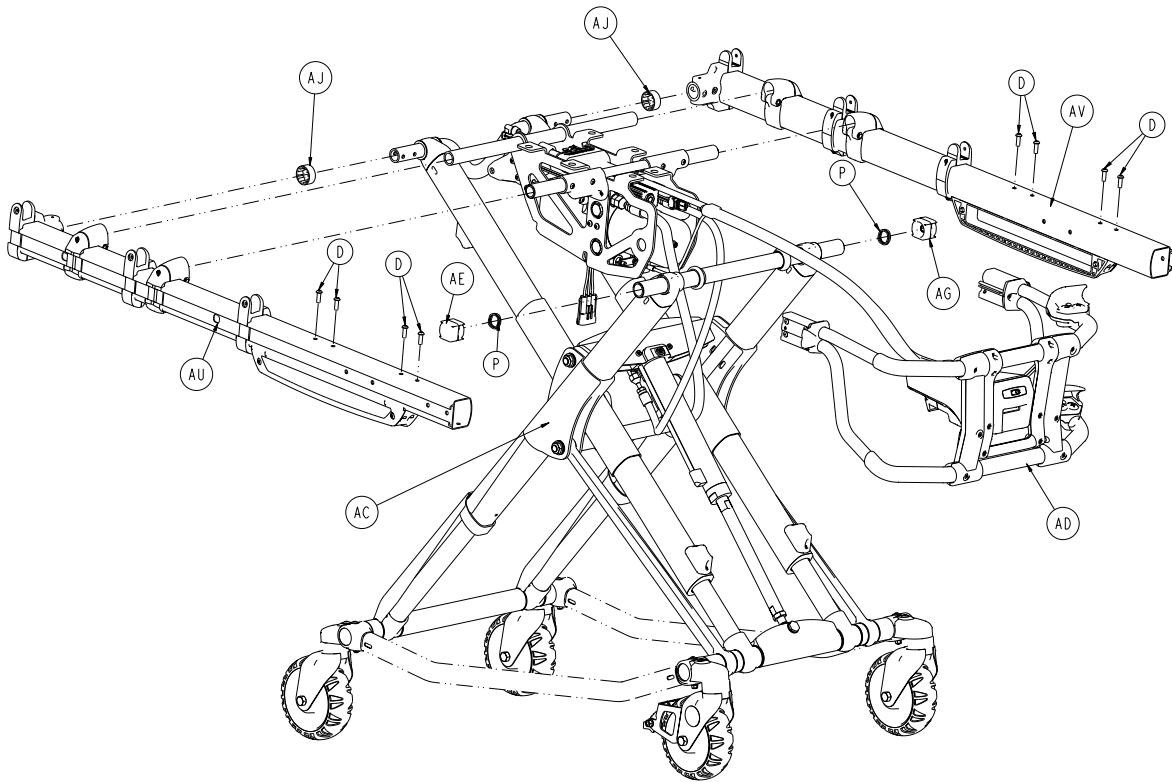
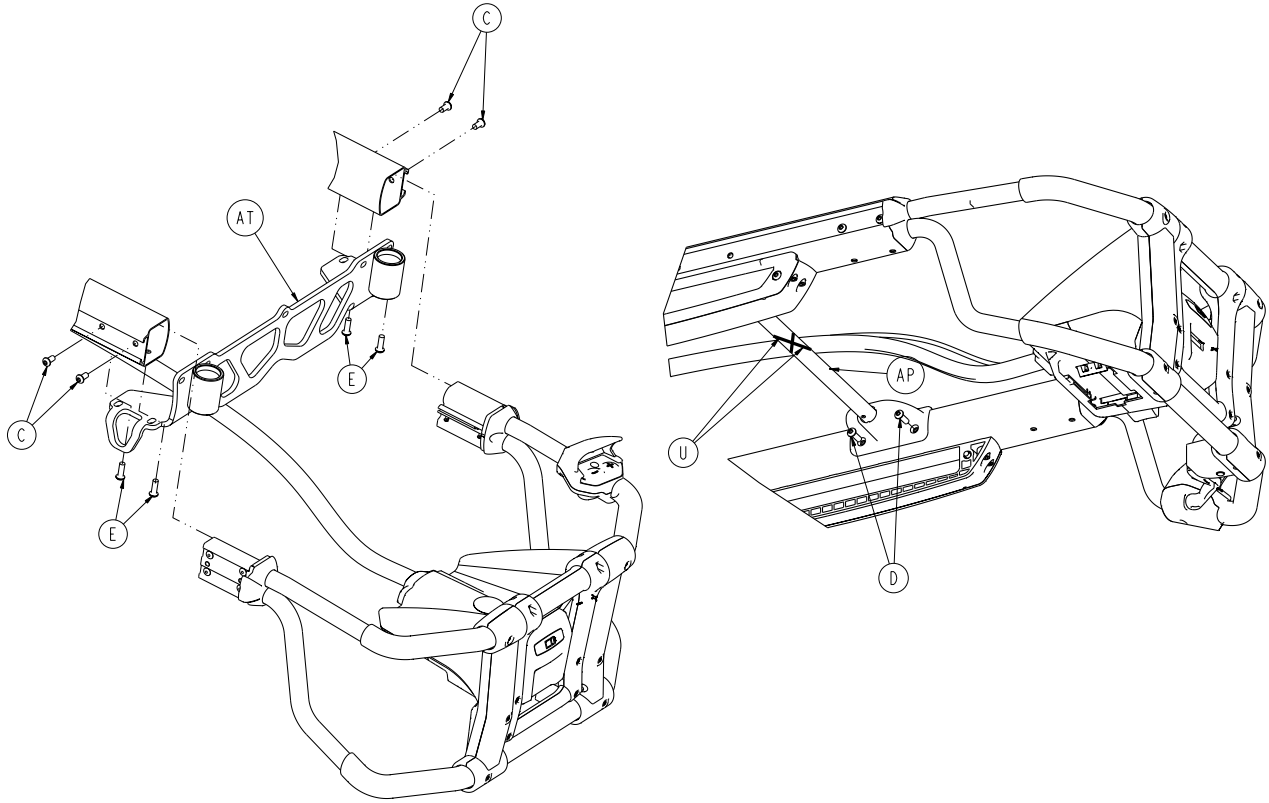
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# Cot Assembly

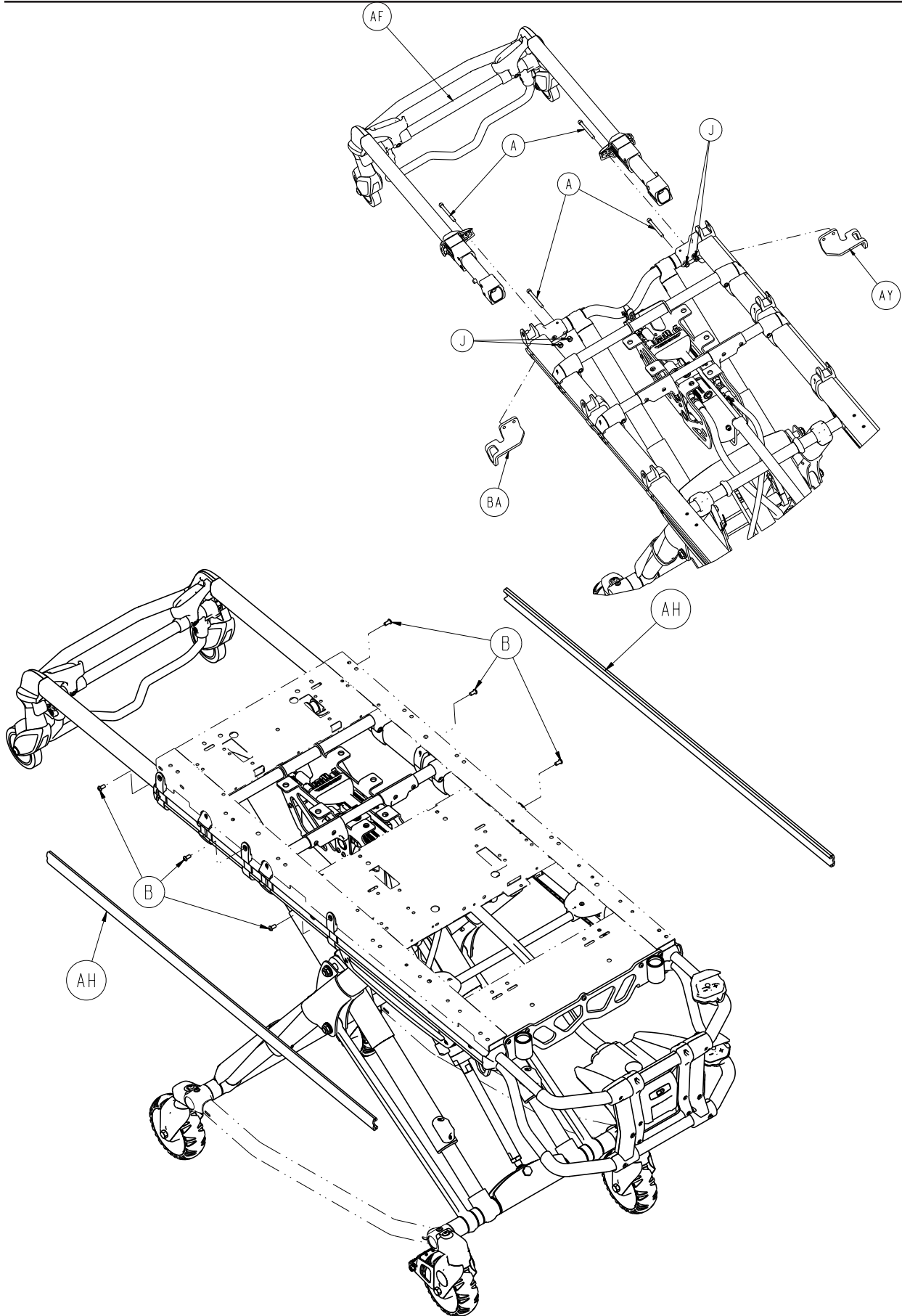


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# Cot Assembly

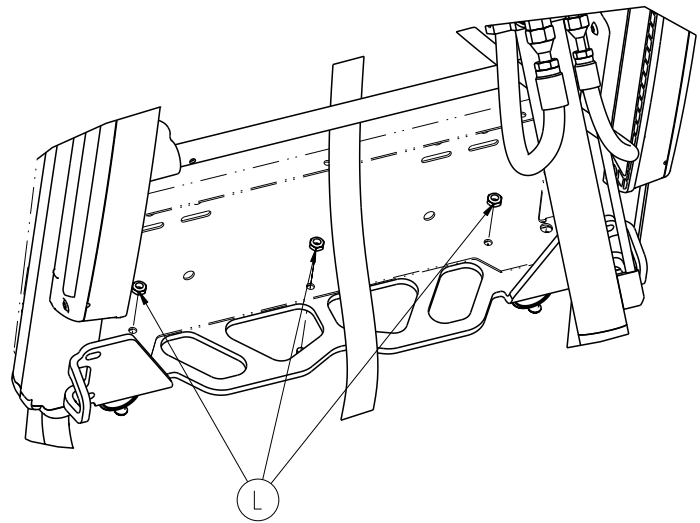
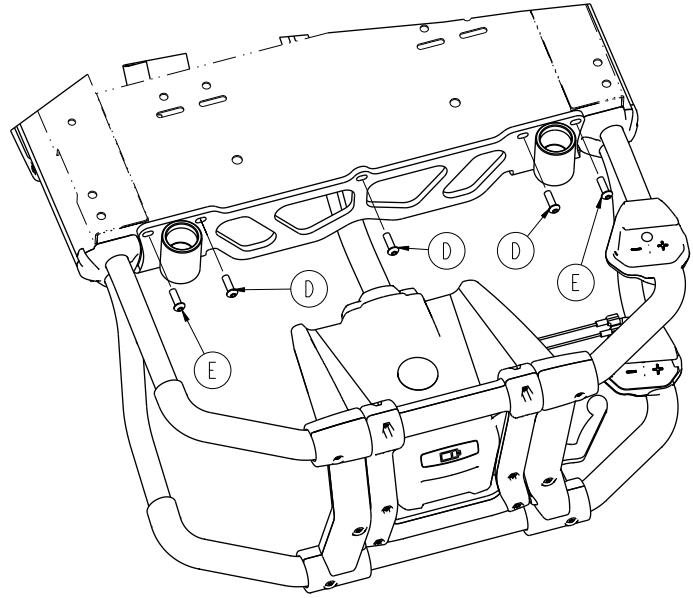
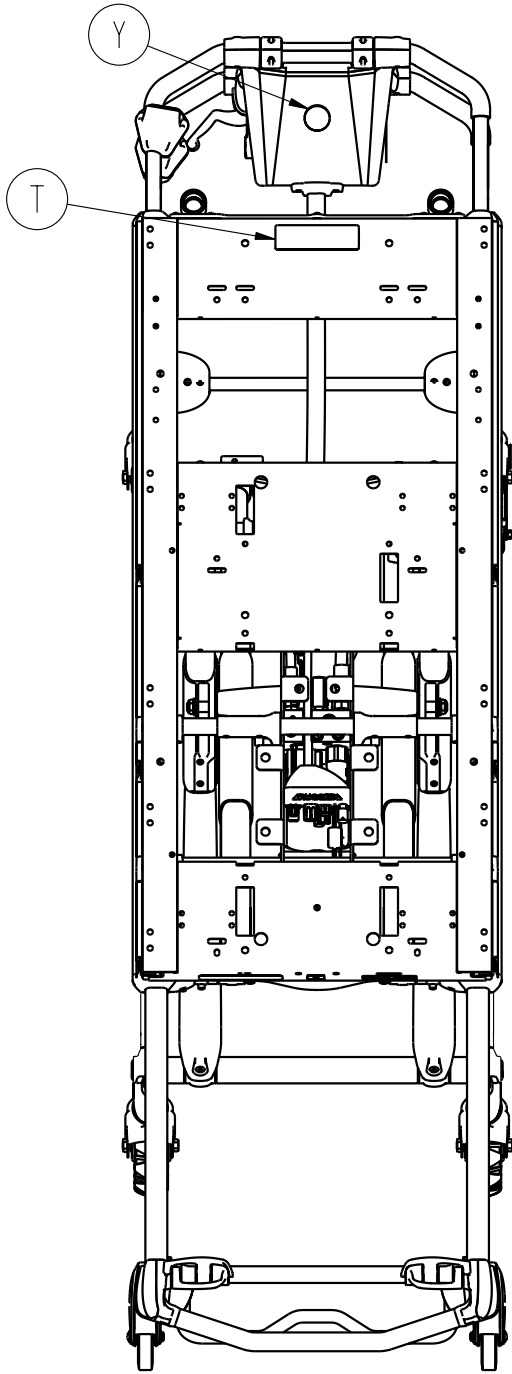


# Cot Assembly



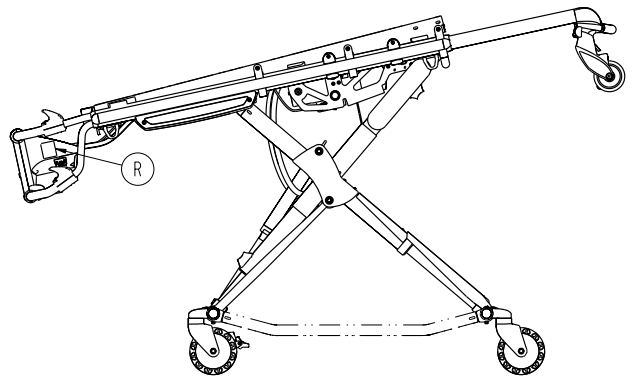
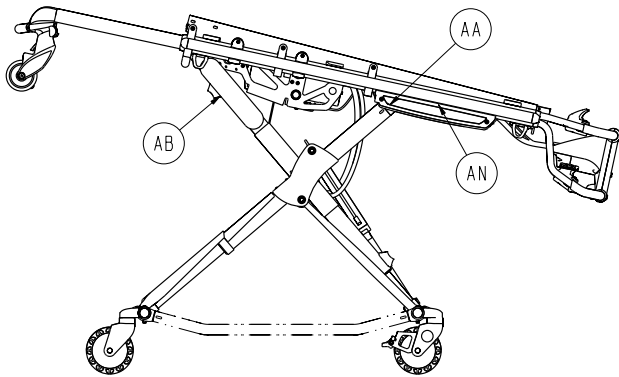
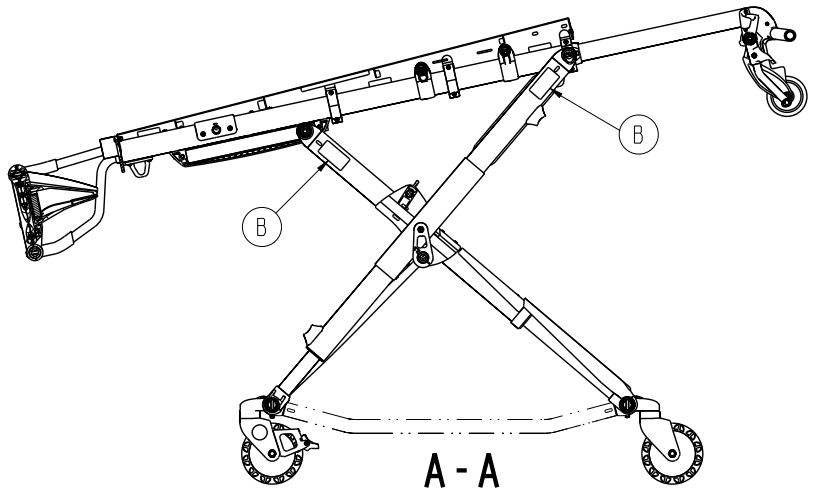
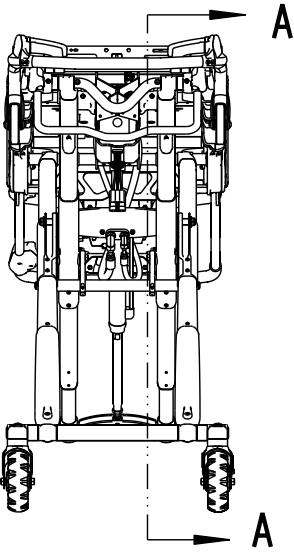
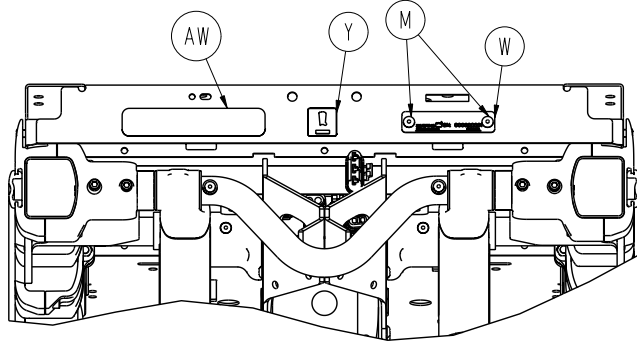
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# Cot Assembly





# Cot Assembly



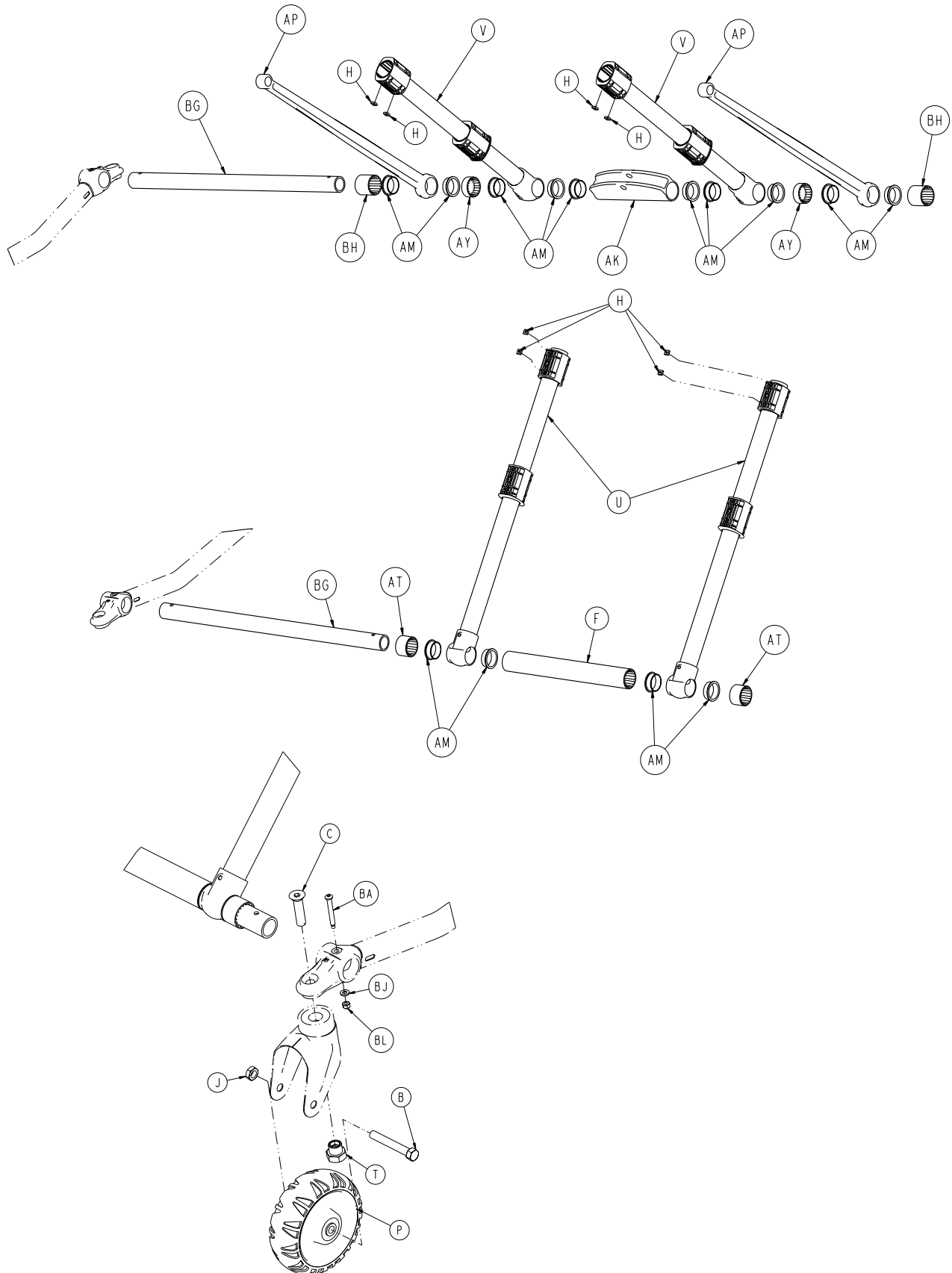
# Cot Assembly

## Cot Assembly - 6510-101-010 Rev A (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-517-000	Socket Head Cap Screw	4
B	6252-001-139	Label, Do Not Lubricate	4
C	0004-589-000	Button Head Cap Screw	12
D	0004-592-000	Button Head Cap Screw	15
E	0004-593-000	Button Head Cap Screw	10
F	0008-030-000	Socket Head Cap Screw	2
G	0011-013-000	Washer	1
H	0016-002-000	Fiberlock Hex Nut	2
J	0016-028-000	Fiberlock Hex Nut	6
K	0016-035-000	Nylock Hex Nut	1
L	0016-102-000	Nylock Hex Nut	3
M	0025-079-000	Rivet	2
N	0025-133-000	Rivet	8
P	0038-574-000	Crest to Crest Spring	2
R	6550-001-201	Label, Oxygen Caution	1
T	6510-001-121	Label, Warning	1
U	0059-211-000	Nylon Cable Tie	2
V	2030-009-901	WEEE Label	1
W	6060-090-002	Serial Number Tag	1
Y	6080-090-101	Label, Brake Warning	1
AA	6510-001-117	Label, Weight Capacity	2
AB	6082-090-043	11" Label	2
AC	6500-101-012	Base Assembly ( <a href="#">page 83</a> )	1
AD	6500-001-015	Foot End Assembly	1
AE	6500-001-017	Magnet Slider	1
AF	6085-001-037	Head Section Assembly	1
AG	6500-001-123	Hall Effects Slider	1
AH	6500-001-127	Outer Rail Bumper	2
AJ	6500-001-128	Plastic Extrusion Spacer	2
AK	6500-001-168	Rod Attachment Pin	1
AL	6500-001-195	Motor Mount Casting	2
AM	6500-001-196	Litter Cross Brace	1
AN	6510-001-116	Label, Power-PRO IT	2
AP	6510-001-013	Cross Brace Assembly	1
AR	6510-001-014	Mounted Power Plant Assembly	1
AT	6510-101-052	Socket Weldment, Foot End	1
AU	6510-001-027	Outer Rail, Sub Assembly, Right	1
AV	6510-001-028	Outer Rail, Sub Assembly, Left	1
AW	6510-001-114	Label, Power-PRO IT Specification	1
AY	6510-001-126	Tie Down Bracket, Right, Head End	1
BA	6510-001-127	Tie Down Bracket, Left, Head End	1

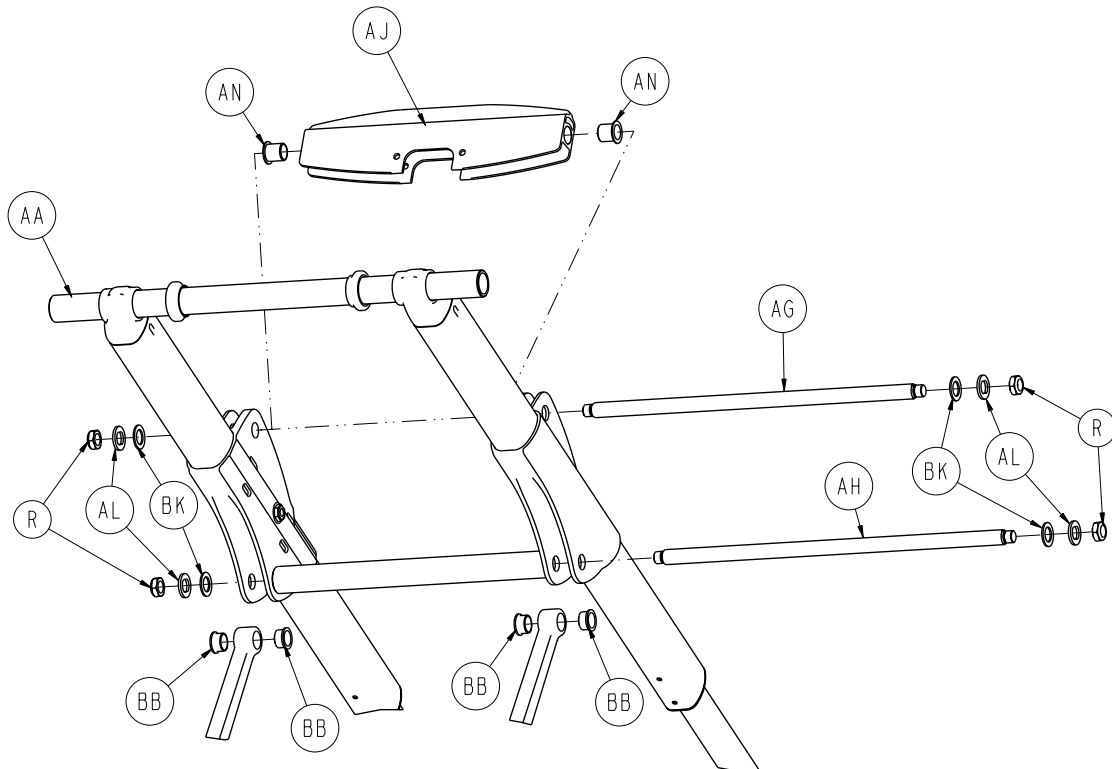
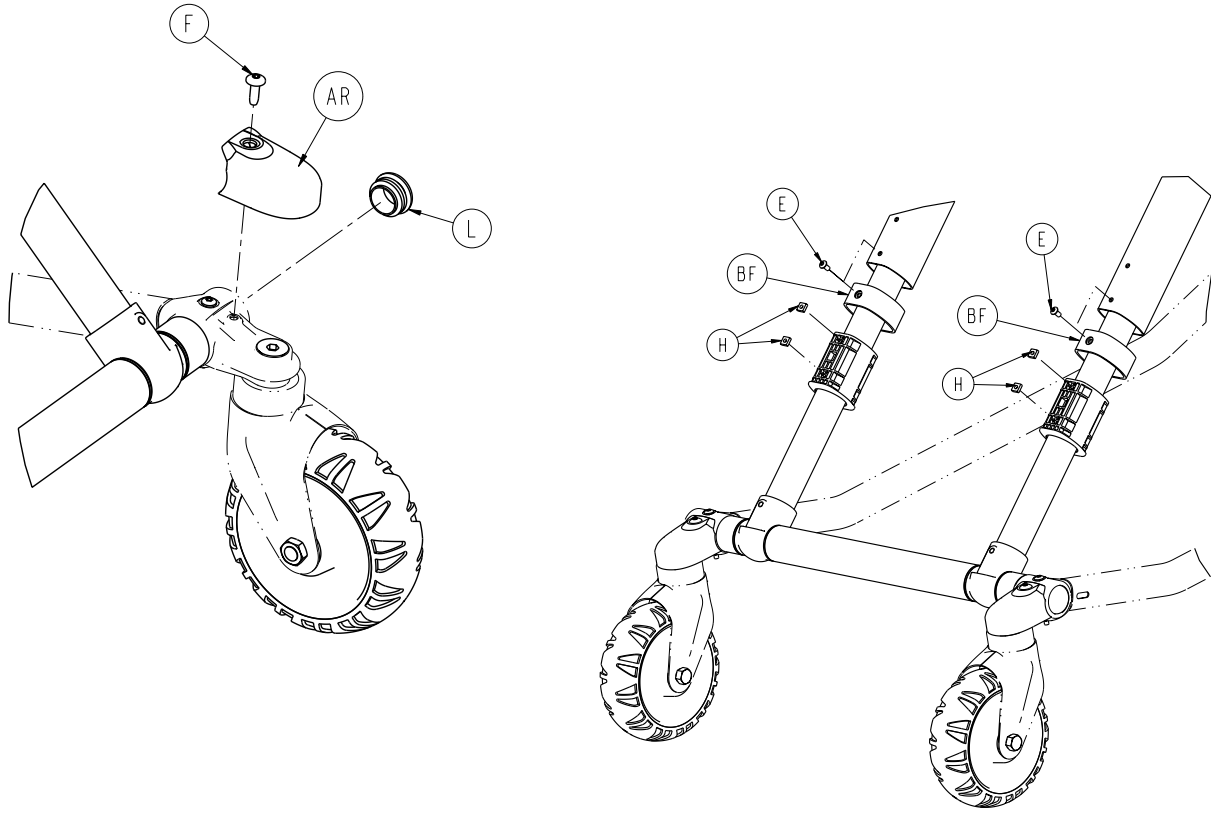
# Base Assembly

6500-101-012 Rev A (Reference Only)

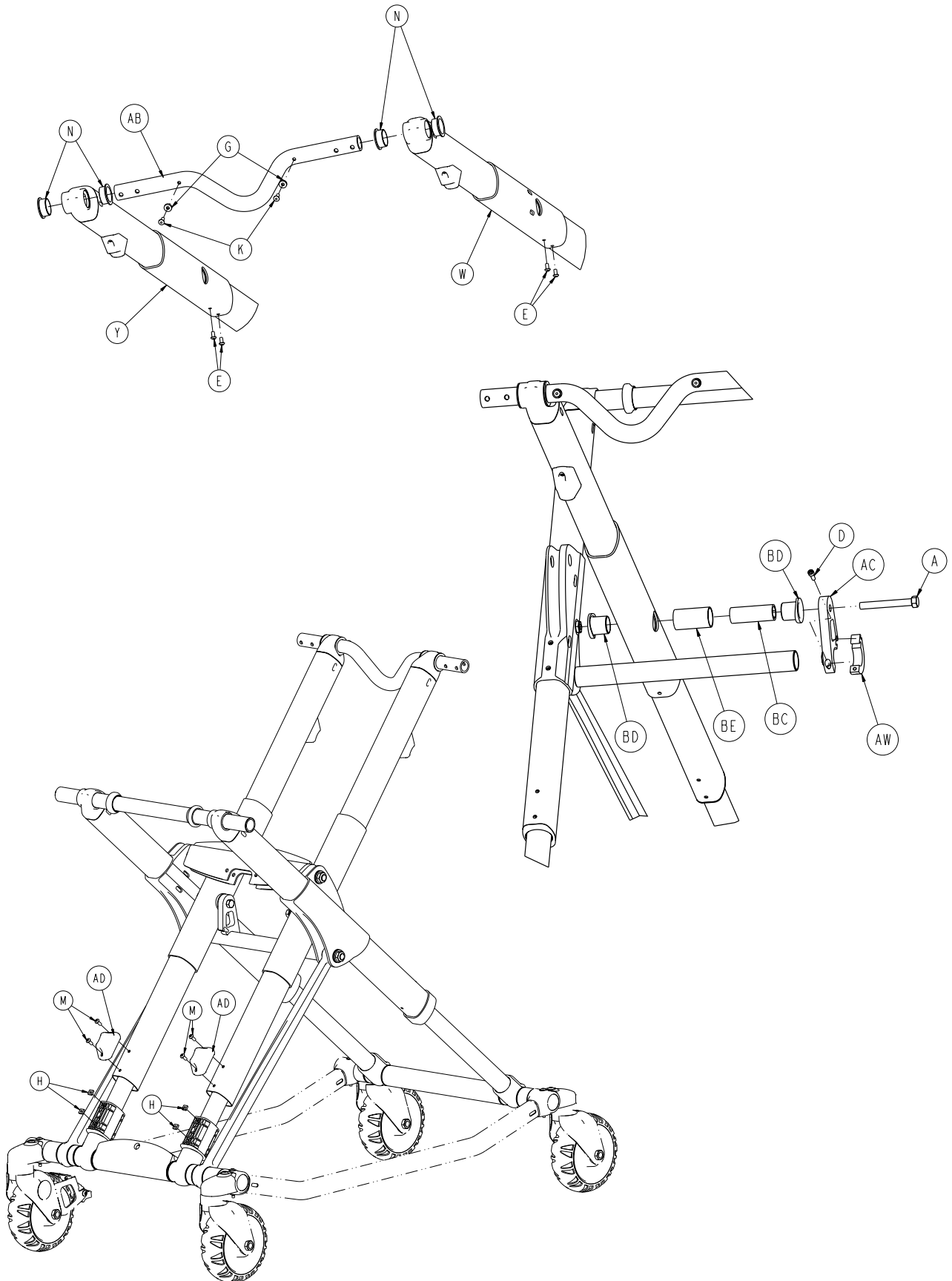


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# Base Assembly

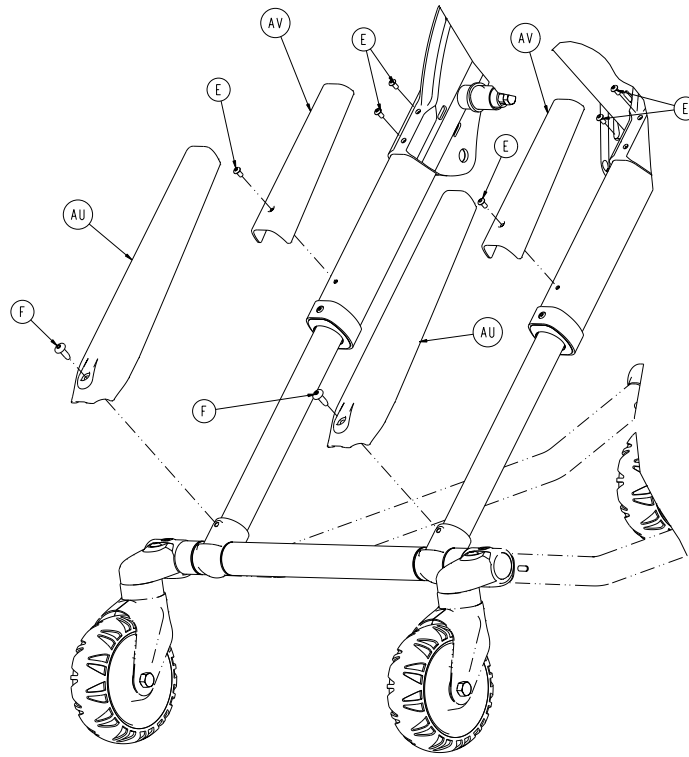


# Base Assembly



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# Base Assembly



## Base Assembly - 6500-101-012 Rev A (Reference Only)

Item	Part No.	Part Name	Qty.
A	0003-388-000	Hex Head Cap Screw	2
B	0003-205-000	Hex Head Cap Screw	4
C	0004-319-000	Flat Head Socket Screw	4
D	0004-348-000	Socket Head Cap Screw	2
E	0004-587-000	Button Head Cap Screw	12
F	0007-086-000	Truss Head Screw	6
G	0014-115-000	Washer	2
H	0015-051-000	Square Nut	16
J	0016-060-000	Toplock Hex Jam Nut	4
K	0025-133-000	Dome Head Rivet	10
L	0037-083-000	Tube Plug	4
M	0004-634-000	Button Head Cap Screw	4
N	0081-244-000	Flange Bearing	4
P	6060-002-010	Molded Wheel Assembly	4
R	0016-049-000	Nylock Hex Cap	4
T	6090-001-009	Caster Nut	4
U	6500-301-021	Outer Lift Tube Assembly ( <a href="#">page 88</a> )	2
V	6500-301-022	Inner Lift Tube Assembly ( <a href="#">page 89</a> )	2

# Base Assembly

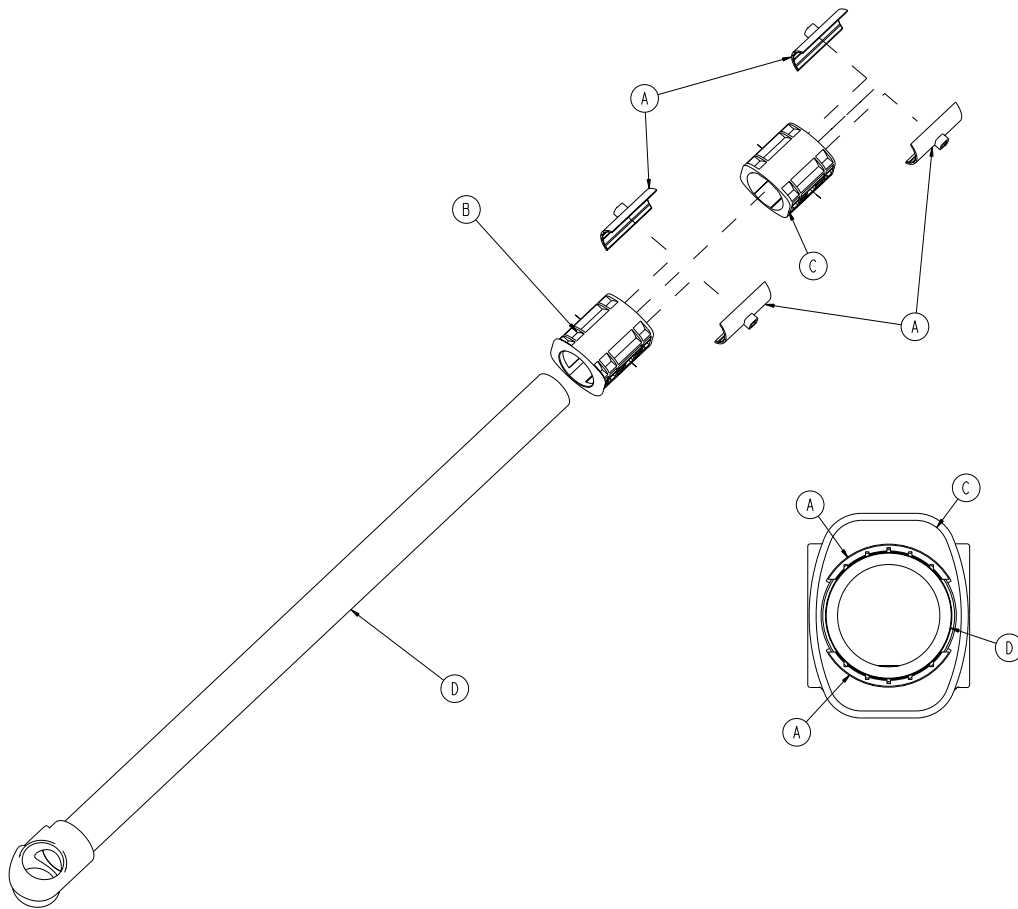
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## Base Assembly - 6500-01-012 Rev A (Reference Only) - Continued

Item	Part No.	Part Name	Qty.
W	6500-001-034	Inner Lift Tube, Right ( <a href="#">page 90</a> )	1
Y	6500-001-035	Inner Lift Tube, Left ( <a href="#">page 91</a> )	1
AA	6500-001-056	Inner Tube Base Frame	1
AB	6500-001-090	Cross Tube, Head End	1
AC	6500-001-308	Base Strap, Patient Right	1
AD	6500-001-125	Base Dead Stop	2
AE	6500-001-309	Base Strap, Patient Left	1
AF	6500-001-129	Plastic Extrusion Spacer	1
AG	6500-001-171	Cross Tube Cylinder Mount	1
AH	6500-001-182	Cross Tube Stiffener Bar	1
AJ	6500-001-164	Cylinder Mount Pivot, Top	1
AK	6500-001-165	Cylinder Mount Pivot, Bottom	1
AL	6500-001-255	"D" Washer	4
AM	6500-001-166	Flange Bearing	14
AN	6500-001-157	Flange Bearing	2
AP	6500-001-172	Support Link	2
AR	6500-001-177	Caster Mount Cover	4
AT	6500-001-178	Plastic Extrusion Spacer	2
AU	6500-001-179	Top X-Frame Guard, Lower	2
AV	6500-001-180	Top X-Frame Guard, Upper	2
AW	6500-001-183	Base Strap Clamp	2
AY	6500-001-097	Plastic Extrusion Spacer	2
BA	6085-001-162	Caster Mount Bolt	4
BB	6500-001-341	Flange Bearing	4
BC	6500-001-226	Base Tube Pivot Post	2
BD	6500-001-227	Base Tube Pivot Bearing	4
BE	6500-001-228	Base Tube Pivot Post	2
BF	6500-001-229	Foot Base Tube	2
BG	6500-001-230	Plastic Extrusion Spacer	2
BJ	0014-002-000	Flat Washer	4
BK	0014-040-000	Flat Washer	4
BL	0016-002-000	Fiberlock Nut	4

# Outer Lift Tube Assembly, Base Pivot - 6500-301-021

Rev A

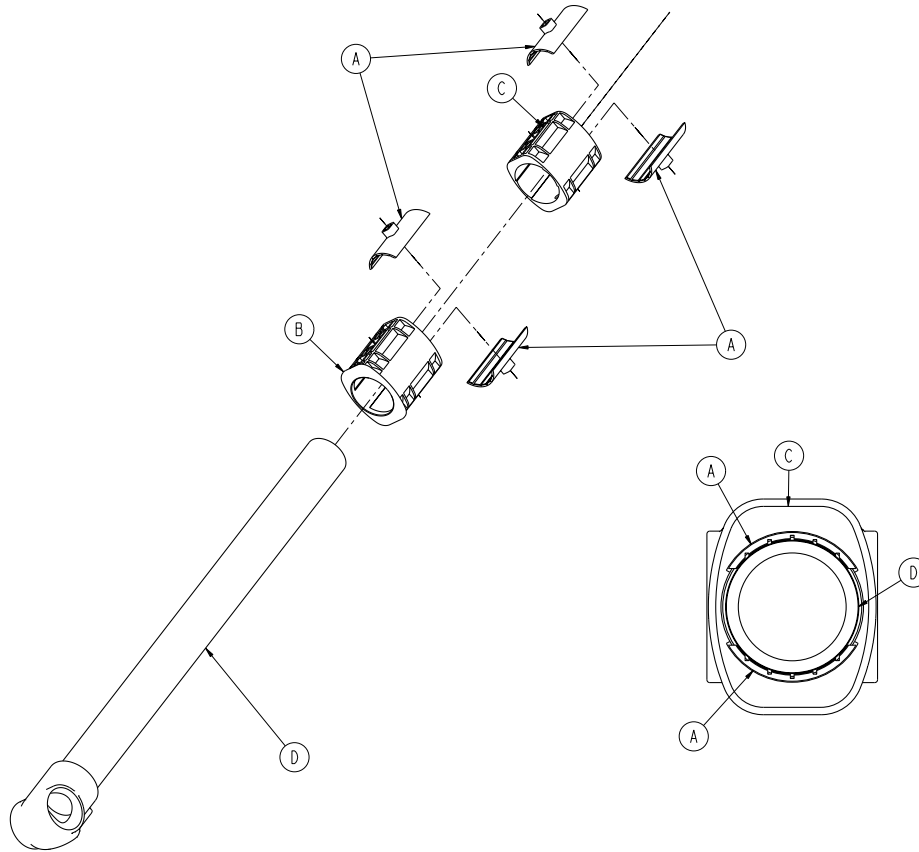


Item	Part No.	Part Name	Qty.
A	6500-001-327	Half Shell Bearing	4
B	6500-001-328	Bearing Carrier, Lower	1
C	6500-001-329	Bearing Carrier, Middle	1
D	6500-301-050	Outer Lift Tube Weldment	1



# Inner Lift Tube Assembly, Base Pivot - 6500-301-022

Rev B

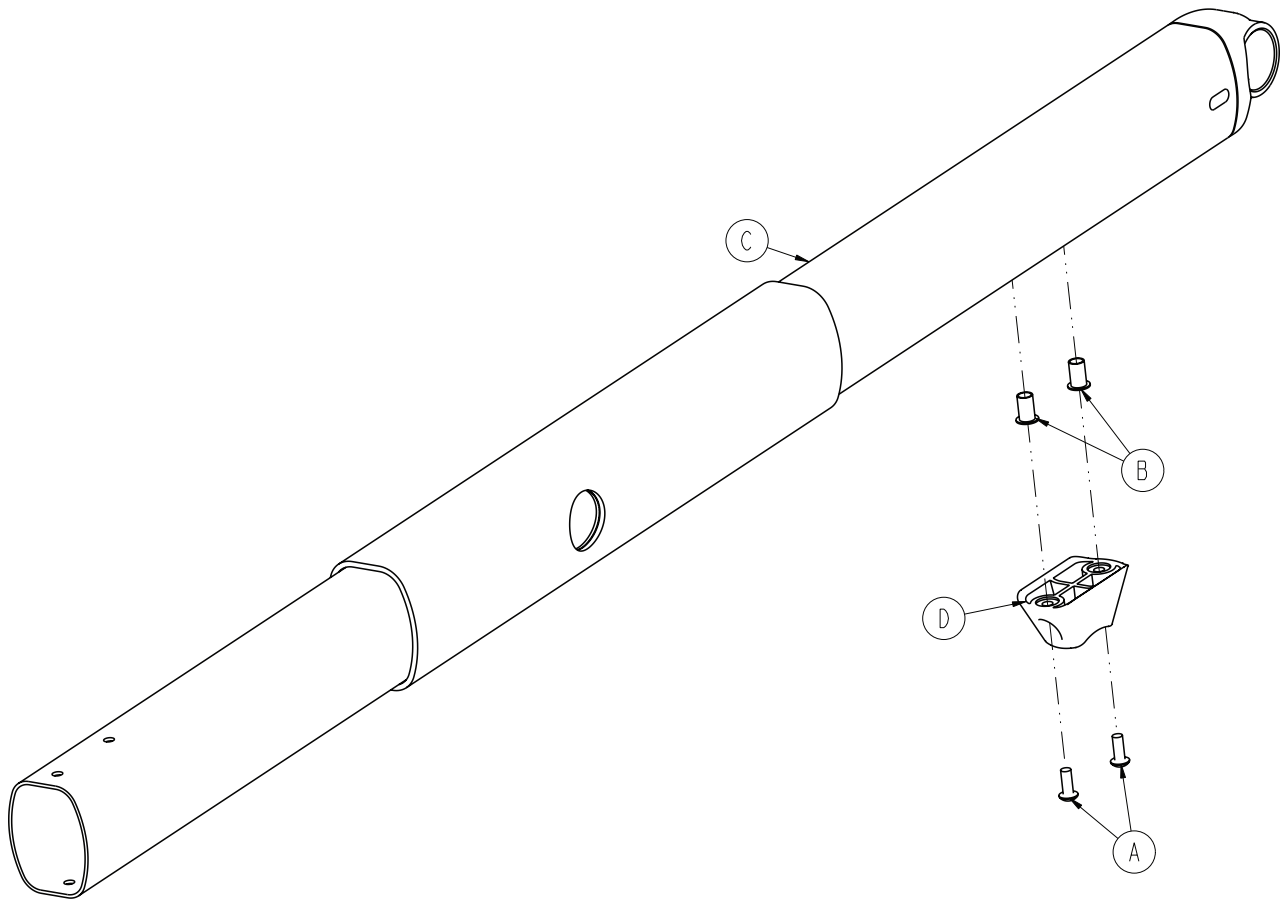


Item	Part No.	Part Name	Qty.
A	6500-001-327	Half Shell Bearing	4
B	6500-001-328	Bearing Carrier, Lower	1
C	6500-001-329	Bearing Carrier, Middle	1
D	6500-301-051	Lift Tube Weldment, Base Pivot	1

# Inner Lift Tube, Litter Pivot - 6500-001-034

## Patient Right Assembly

Rev F

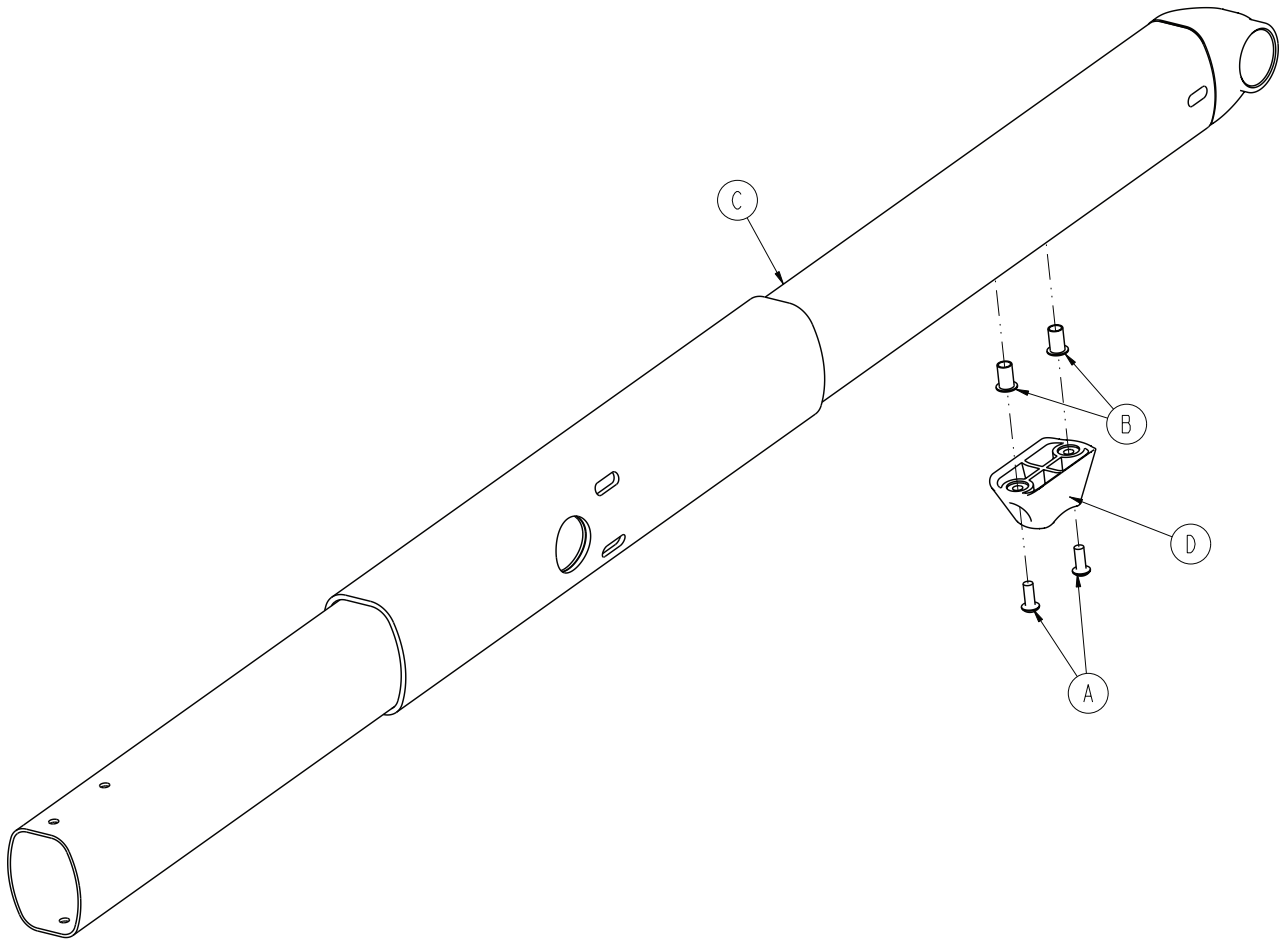


Item	Part No.	Part Name	Qty.
A	0004-634-000	Button Head Cap Screw	2
B	0055-100-075	Nut	2
C	6500-001-355	Inner Lift Tube Weldment	1
D	6500-001-125	Dead Stop	1

# Inner Lift Tube, Litter Pivot - 6500-001-035

## Patient Left Assembly

Rev F



Item	Part No.	Part Name	Qty.
A	0004-634-000	Button Head Cap Screw	2
B	0055-100-075	Nut	2
C	6500-301-053	Inner Lift Tube Weldment	1
D	6500-001-125	Dead Stop	1

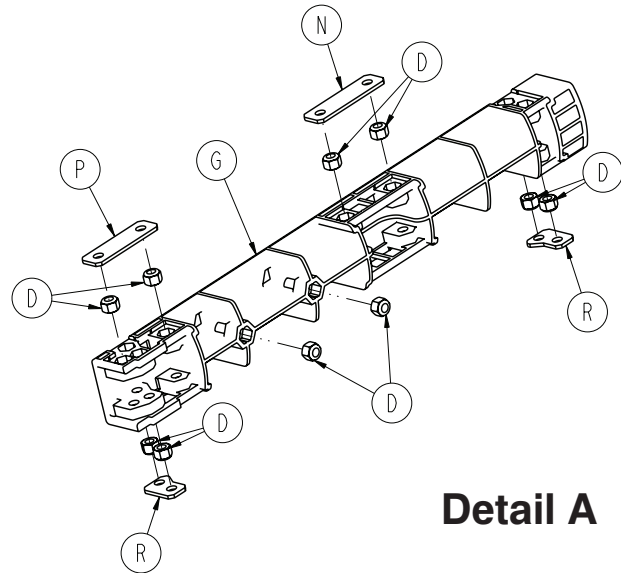
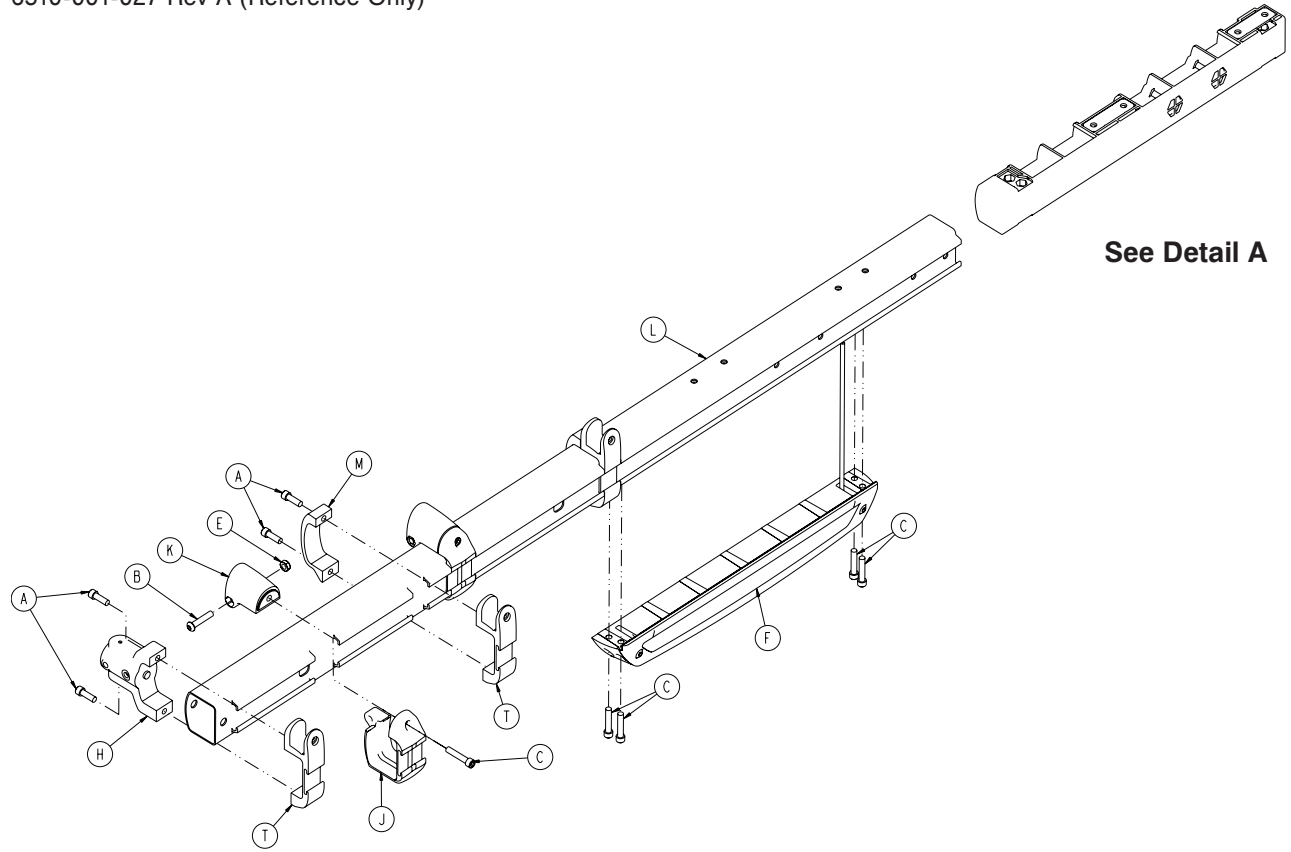
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# Notes

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# Outer Rail, Patient Right Assembly

6510-001-027 Rev A (Reference Only)



**Detail A**

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# Outer Rail, Patient Right Assembly

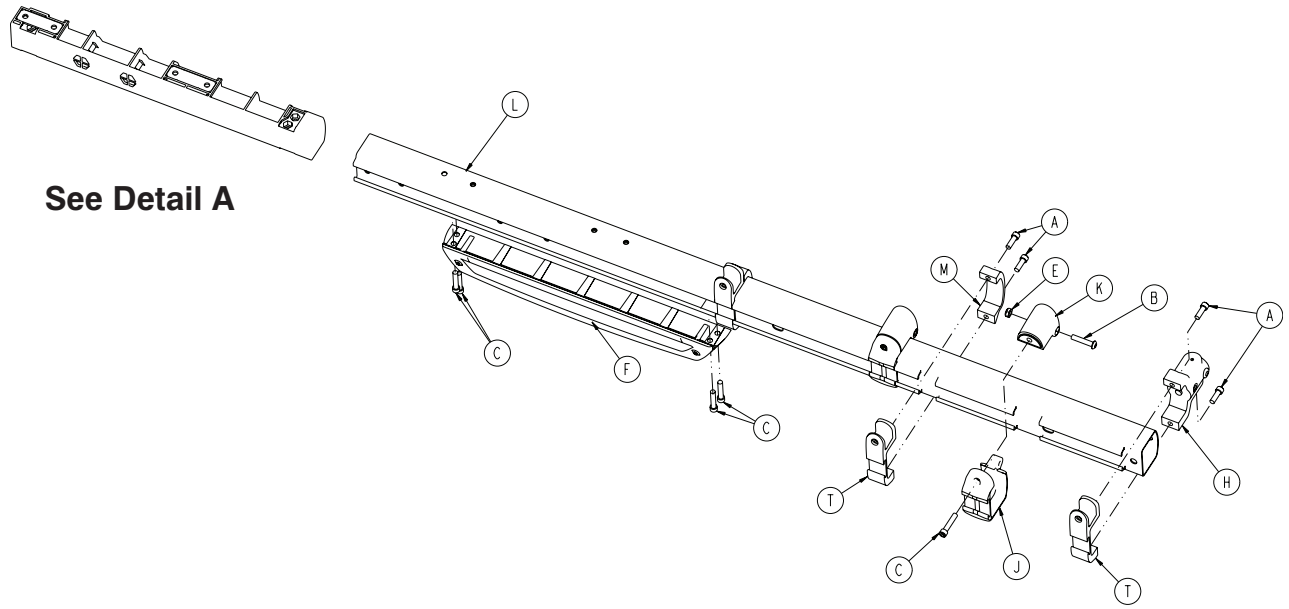
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## Outer Rail, Patient Right Assembly - 6510-001-027 Rev A (Reference Only)

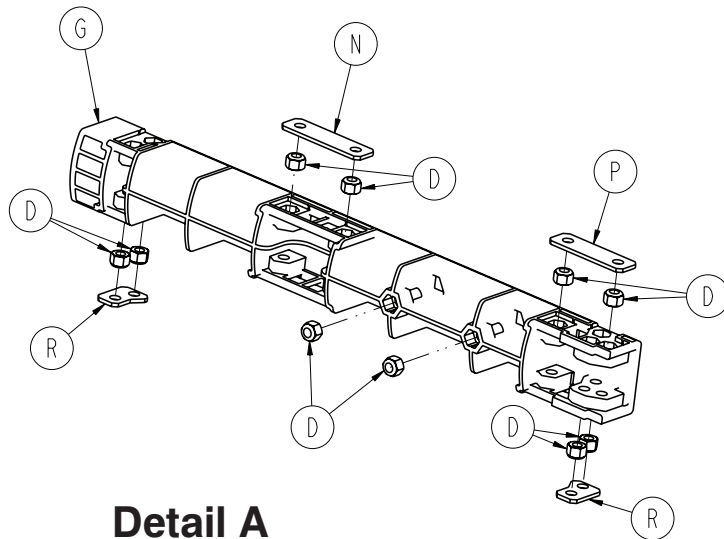
Item	Part No.	Part Name	Qty.
A	0004-591-000	Socket Head Cap Screw	6
B	0004-612-000	Button Head Cap Screw	2
C	0004-613-000	Socket Head Cap Screw	6
D	0016-028-000	Fiberlock Hex Nut	10
E	0016-102-000	Nylock Hex Nut	2
F	6500-001-028	Hall Sensor Assembly	1
G	6500-001-098	Dead Stop	1
H	6500-001-102	Base/Litter Interface Bracket	1
J	6500-001-104	Litter Support Bracket, Outside	2
K	6500-001-106	Litter Support Bracket, Inside	2
L	6500-001-114	Outer Rail Extrusion	1
M	6500-001-117	Siderail Clamp	2
N	6500-001-243	I.V. Pole Backer Plate	1
P	6500-001-244	I.V. Clip Backer Plate	1
R	6500-001-245	Sensor Housing Backer Plate	2
T	6510-001-115	Siderail Bracket	3

# Outer Rail, Patient Left Assembly

6510-001-028 Rev A (Reference Only)



See Detail A



Detail A

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# Outer Rail, Patient Left Assembly

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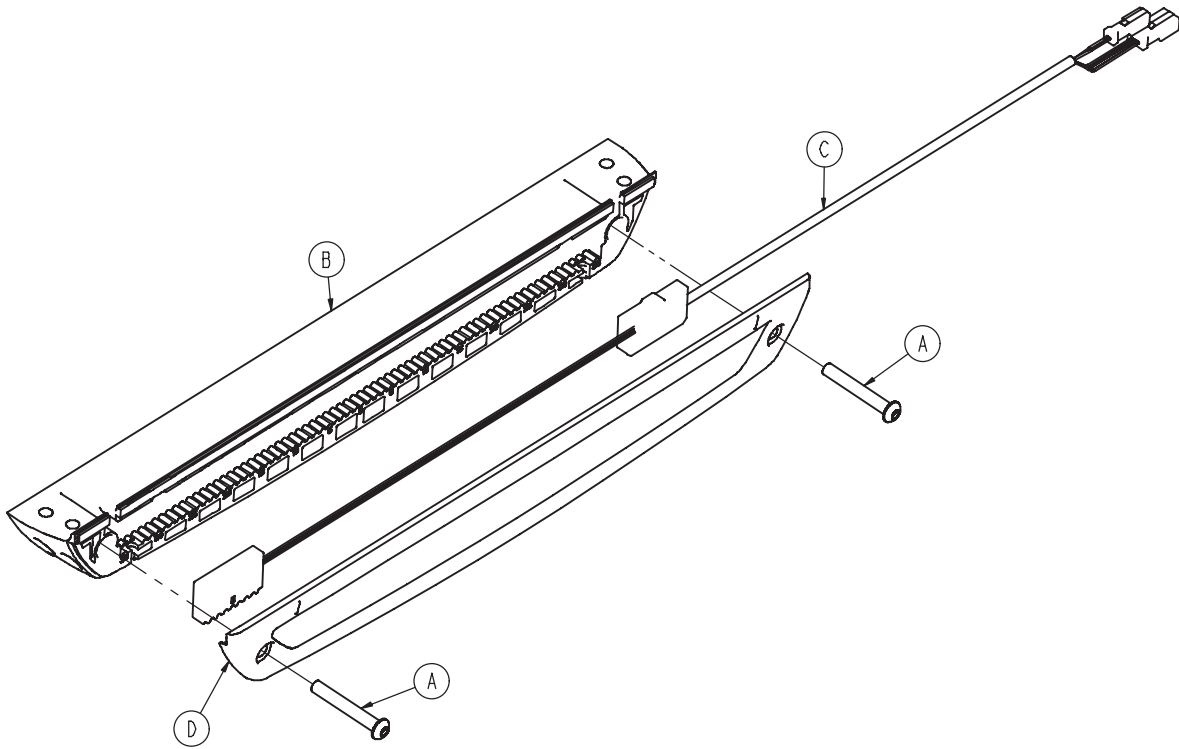
## Outer Rail, Patient Left Assembly - 6510-001-028 Rev A (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-591-000	Socket Head Cap Screw	6
B	0004-612-000	Button Head Cap Screw	2
C	0004-613-000	Socket Head Cap Screw	6
D	0016-028-000	Fiberlock Hex Nut	10
E	0016-102-000	Nylock Hex Nut	2
F	6500-001-029	Empty Sensor Housing	1
G	6500-001-098	Dead Stop	1
H	6500-001-102	Base/Litter Interface Bracket	1
J	6500-001-104	Litter Support Bracket, Outside	2
K	6500-001-106	Litter Support Bracket, Inside	2
L	6500-001-115	Outer Rail Extrusion	1
M	6500-001-117	Siderail Clamp	2
N	6500-001-243	I.V. Pole Backer Plate	1
P	6500-001-244	I.V. Clip Backer Plate	1
R	6500-001-245	Sensor Housing Backer Plate	2
T	6510-001-115	Siderail Bracket	3



# Hall Sensor Assembly

6500-001-028 Rev A (Reference Only)

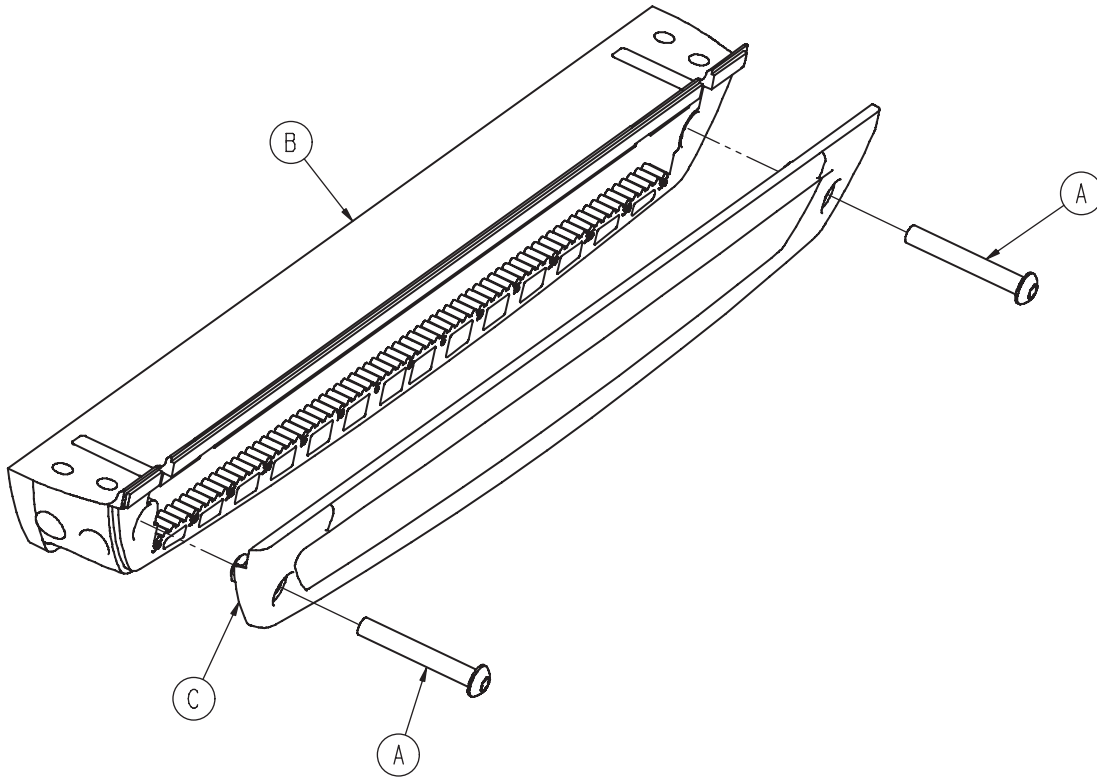


Item	Part No.	Part Name	Qty.
A	0004-596-000	Button Head Cap Screw	2
B	6500-001-124	Sensor Housing	1
C	6500-001-160	Hall Effects Sensor	1
D	6500-001-199	Housing Cover	1

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# Sensor Housing Assembly

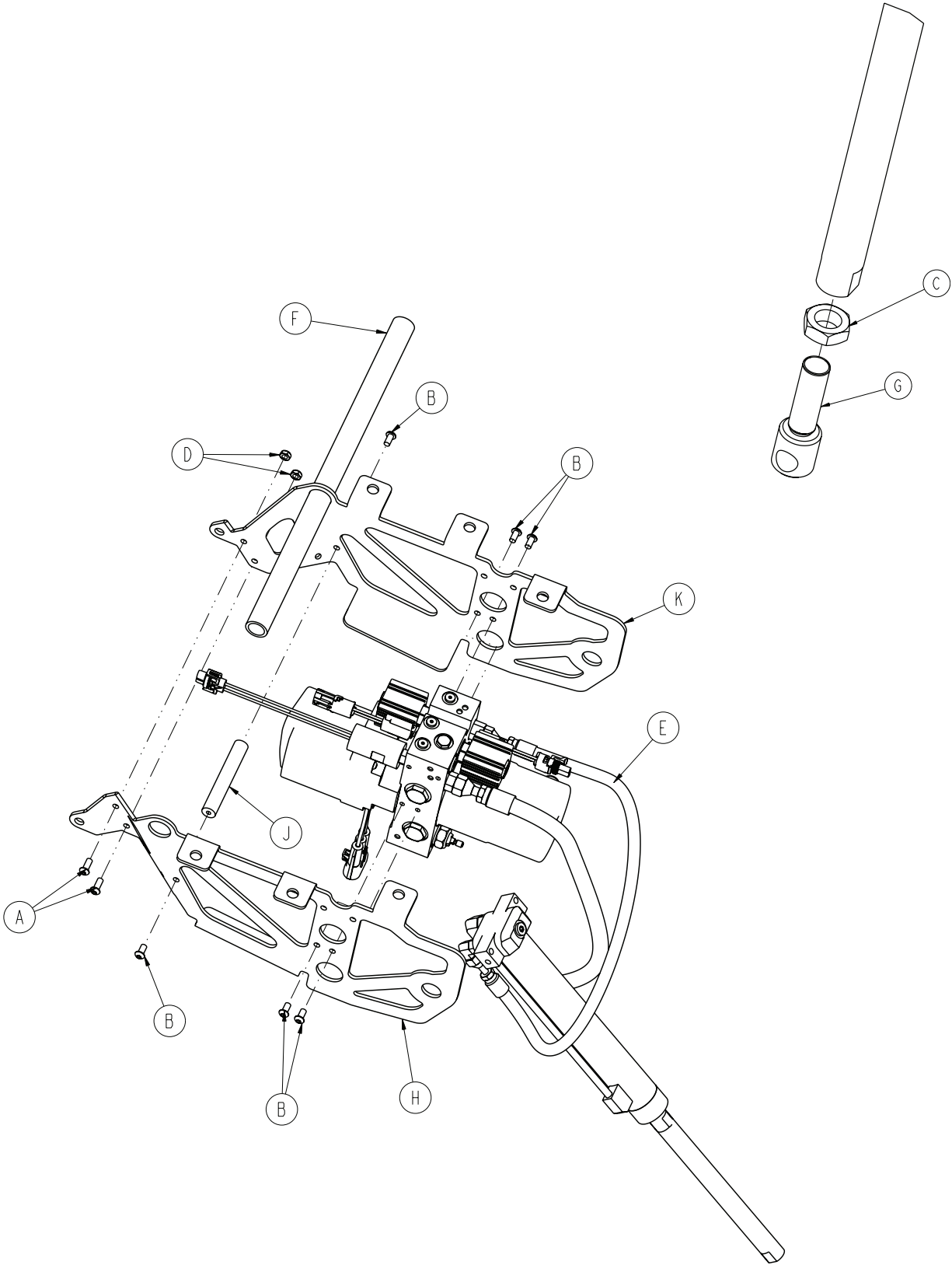
6500-001-029 Rev A (Reference Only)



Item	Part No.	Part Name	Qty.
A	0004-596-000	Button Head Cap Screw	2
B	6500-001-124	Sensor Housing	1
C	6500-001-199	Housing Cover	1

# Powerplant Assembly

6510-001-014 Rev A (Reference Only)



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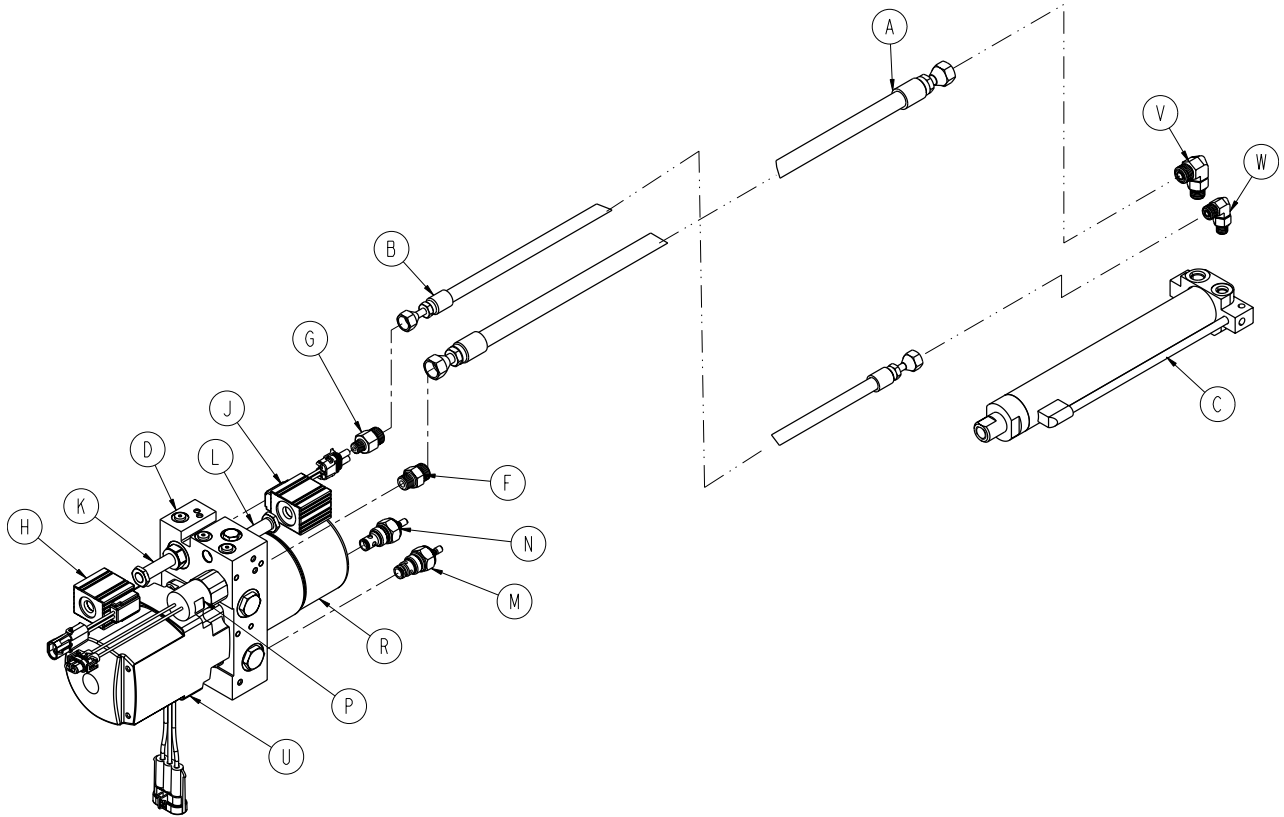
# Powerplant Assembly

---

## Powerplant Assembly - 6510-001-014 Rev A (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-577-000	Button Head Cap Screw	2
B	0004-589-000	Button Head Cap Screw	6
C	0015-052-000	Hex Jam Nut	1
D	0016-102-000	Nylock Hex Nut	2
E	6500-001-030	Hydraulics	1
F	6500-001-105	Litter Support Cross Tube	1
G	6500-001-169	Cylinder Rod End	1
H	6500-001-194	Motor Mount	1
J	6500-001-212	Motor Mount Cross Bar	1
K	6500-001-294	Motor Mount	1

# Hydraulic Sub-Assembly - 6500-001-030



Item	Part No.	Part Name	Qty.
A	6500-001-210	Cap Side Hose	1
B	6500-001-211	Rod Side Hose	1
C	6500-001-213	Cylinder	1
D	6500-001-214	Manifold Assembly	1
E	6500-001-270	Pressure Compensated Flow Control	1
F	6500-001-282	Manifold Cap Side Hose Fitting	1
G	6500-001-283	Manifold Rod Side Hose Fitting	1
H	6500-001-284	A Value Solenoid	1
J	6500-001-285	B Value Solenoid	1
K	6500-001-286	A Valve	1
L	6500-001-287	B Valve	1
M	6500-001-288	Locking Manual Valve	1
N	6500-001-289	Non-Locking Manual Valve	1
P	6500-001-290	Pressure Switch	1
R	6500-001-291	Reservoir	1
T	6500-001-293	Hydraulic Fluid	1
U	6500-001-295	Motor	1
V	6500-001-296	Cylinder Cap Side Hose Fitting	1
W	6500-001-297	Cylinder Rod Side Hose Fitting	1
Y	6500-001-299	Hydraulic Fill Plug	1

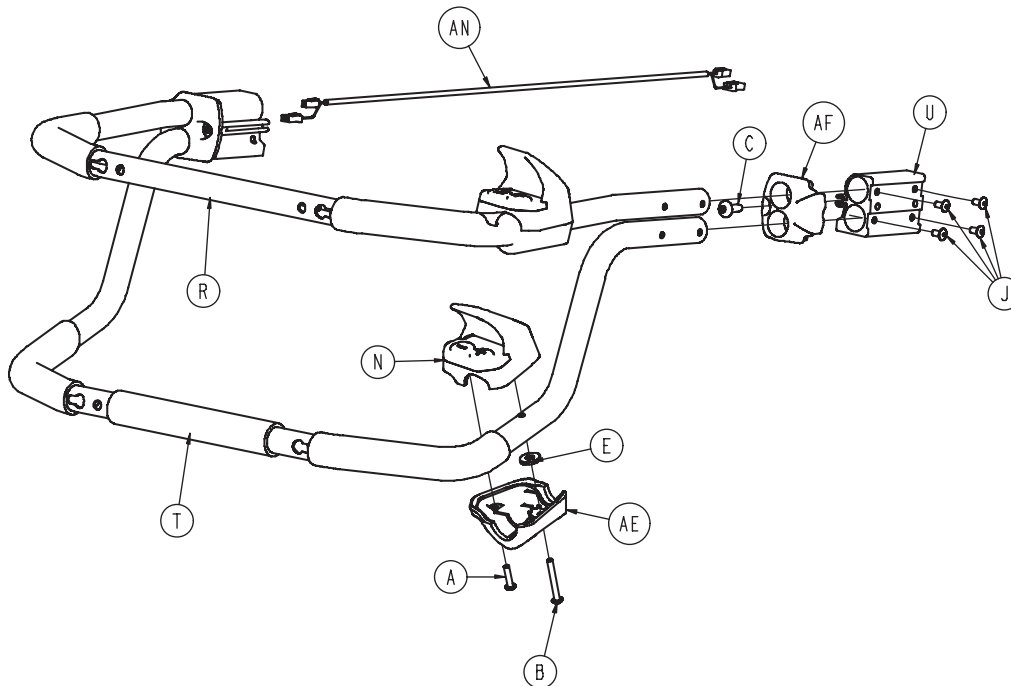
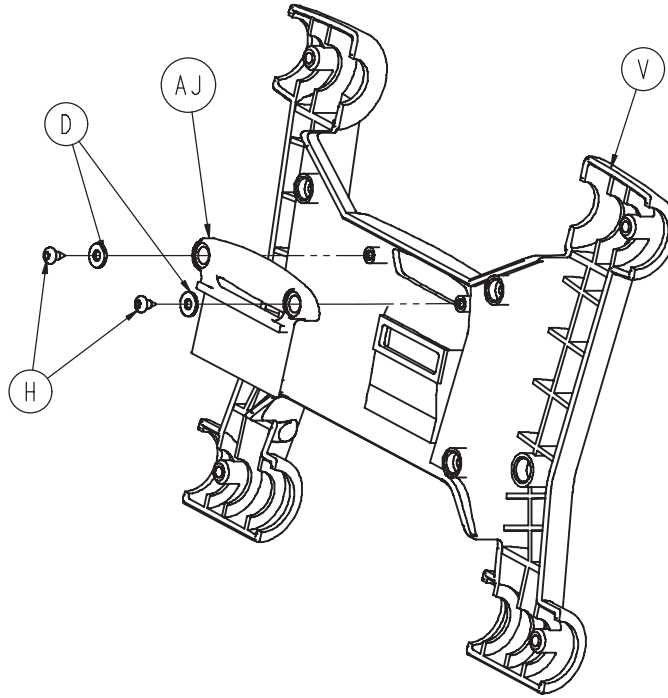
[Return To Table of Contents](#)

# Notes

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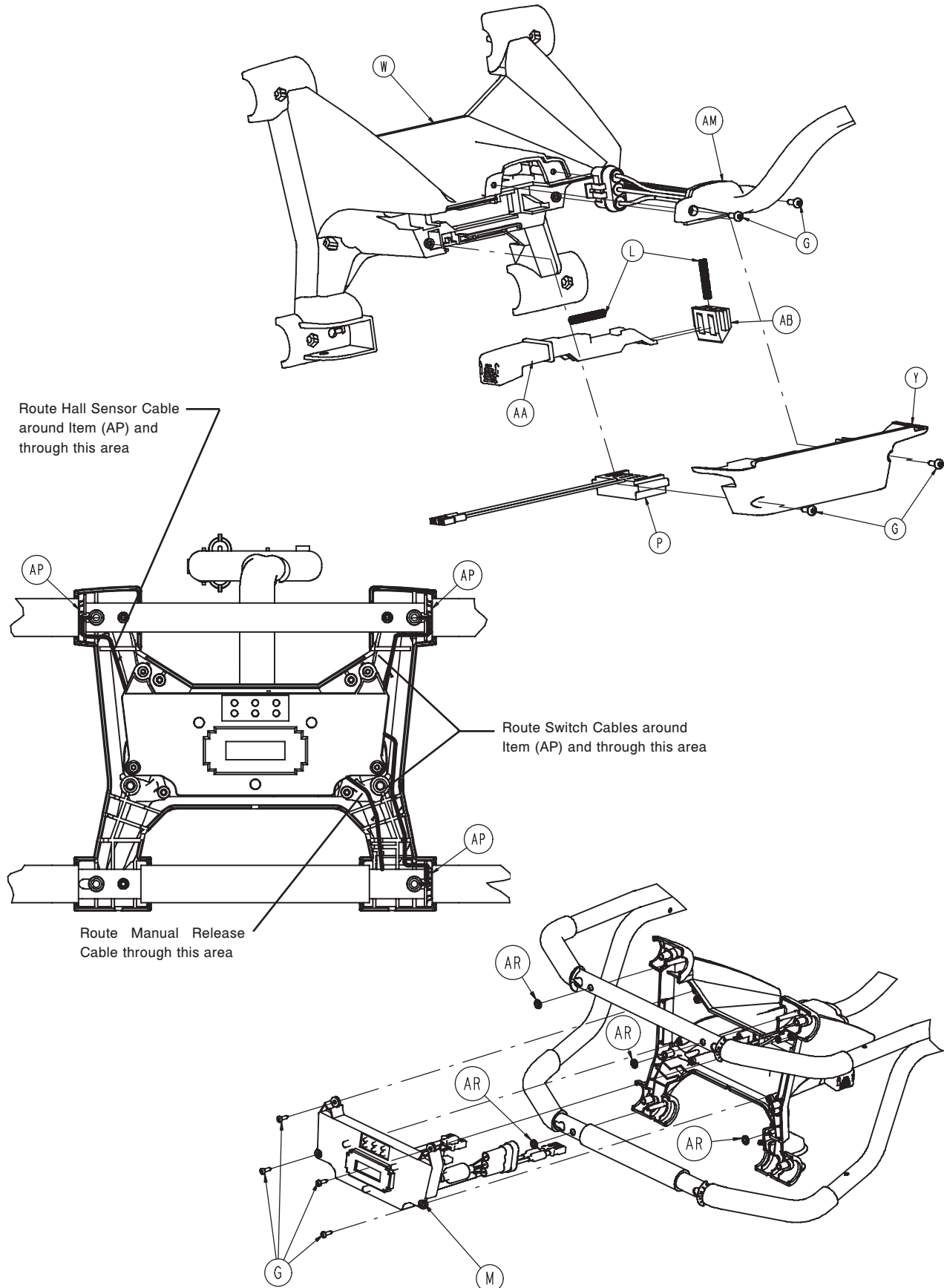
# Foot End Assembly

6500-001-015 Rev E (Reference Only)



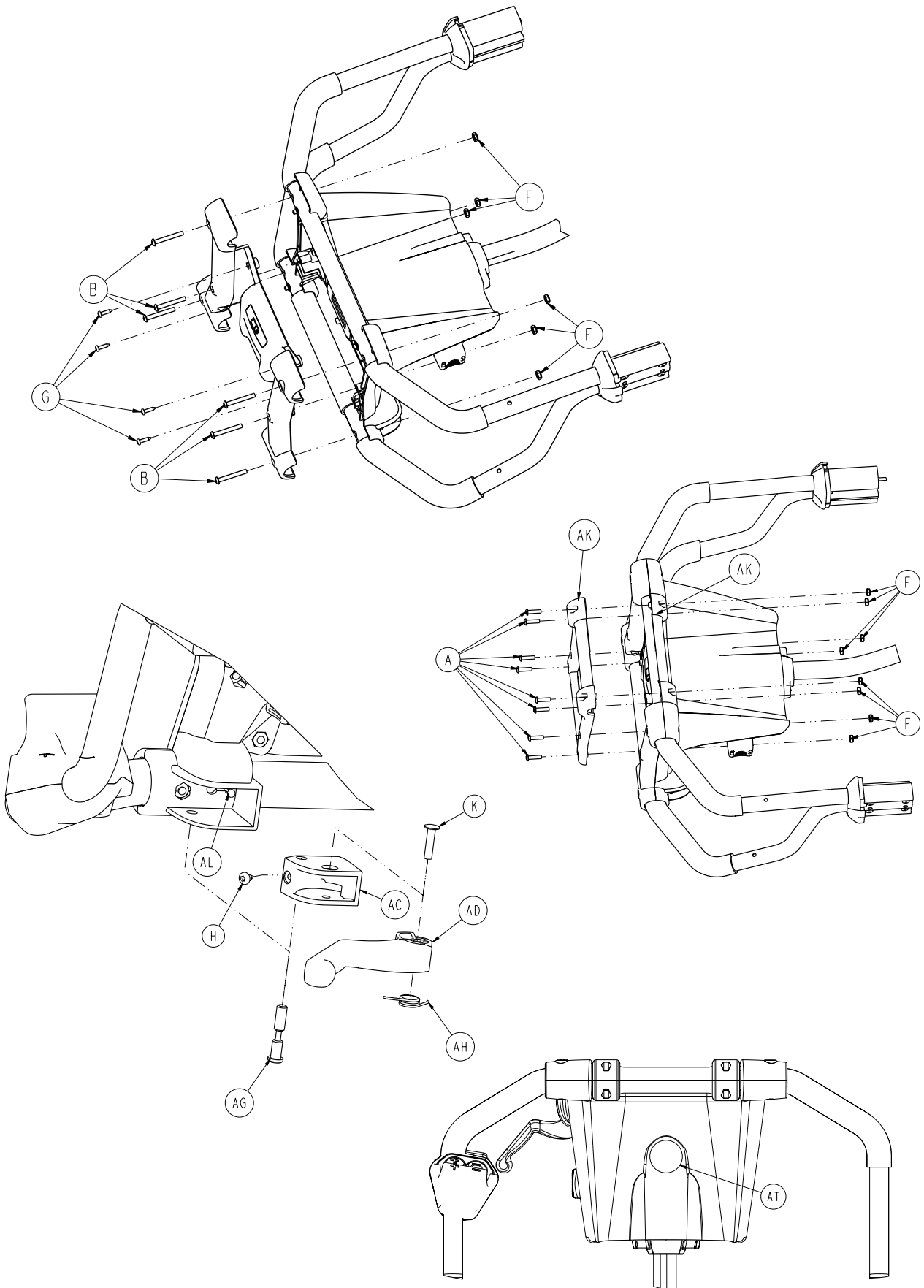
[Return To Table of Contents](#)

# Foot End Assembly





# Foot End Assembly



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# Foot End Assembly

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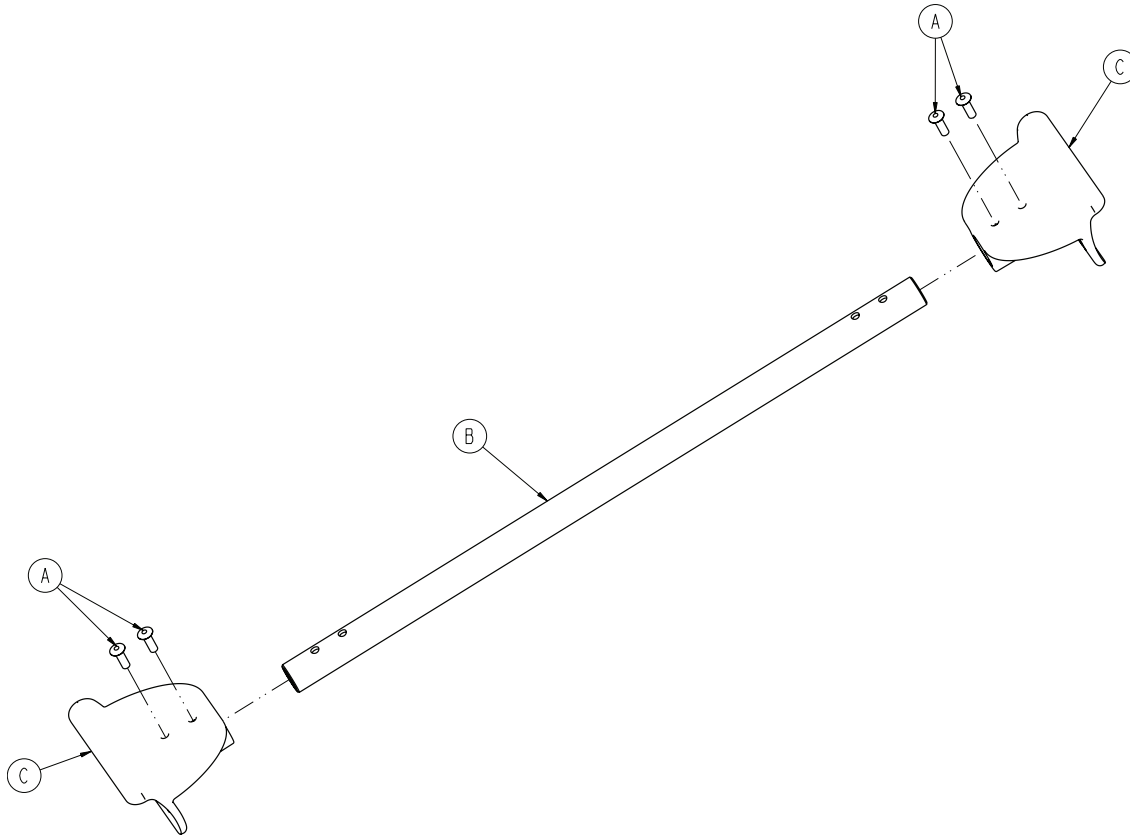
## Foot End Assembly - 6500-001-015 Rev E (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-614-000	Button Head Cap Screw	10
B	0004-615-000	Button Head Cap Screw	8
C	0007-086-000	Truss Head Screw	2
D	0011-062-000	Washer	2
E	0011-543-000	Washer	2
F	0016-131-000	Nut - Nylock Hex	14
G	0023-162-000	Pan Head Thread Forming Screw	12
H	0023-163-000	Pan Head Thread Forming Screw	3
J	0025-079-000	Rivet	8
K	0025-187-000	Semi-Tubular Rivet	1
L	0038-572-000	Compression Spring	2
M	6500-001-014	Electronics Assembly	1
N	6500-101-016	Switch Assembly ( <a href="#">page 108</a> )	2
P	6500-001-216	Terminal Block	1
R	6500-001-131	Upper Lifting Bar	1
T	6500-001-132	Lower Lifting Bar	1
U	6500-001-133	Machined Extruded Bracket	2
V	6500-001-134	Battery Enclosure - Face Plate	1
W	6500-001-135	Top Plate, Foot End Enclosure	1
Y	6500-001-136	Bottom Plate, Foot End Enclosure	1
AA	6500-001-138	Button, Battery Release	1
AB	6500-001-139	Lock, Battery Release	1
AC	6500-001-140	Pivot, Manual Release Actuator	1
AD	6500-001-141	Lever, Manual Release Actuator	1
AE	6500-001-358	Housing, Lower, Button, Foot End	2
AF	6500-001-144	Transition Cap, Right	2
AG	6500-001-146	Pivot Pin, Manual Release	1
AH	6500-001-147	Torsion Spring	1
AJ	6500-001-153	ORB, Light Panel	1
AK	6500-001-154	Pull Handle	2
AL	6500-001-156	Cable, Manual Release	1
AM	6500-001-159	Cable Assembly	1
AN	6500-001-161	Cable, Hall Effects	1
AP	6500-001-275	Wire Route Clip	3
AR	0028-116-000	Push Nut	4
AT	6080-090-101	Brake Warning Label	1

# Trend Assembly

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6510-001-013 Rev A (Reference Only)



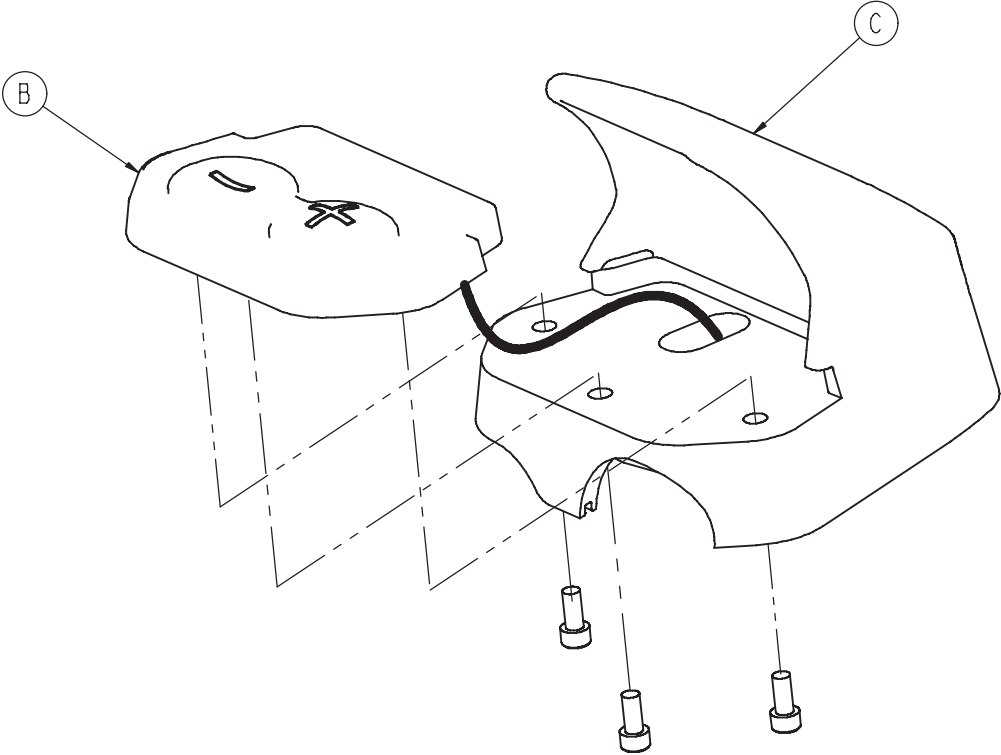
Item	Part No.	Part Name	Qty.
A	0025-133-000	Rivet	4
B	6500-001-107	Litter Cross Brace	1
C	6500-001-109	Trend Support Bracket	2

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# Button Assembly - 6500-101-016

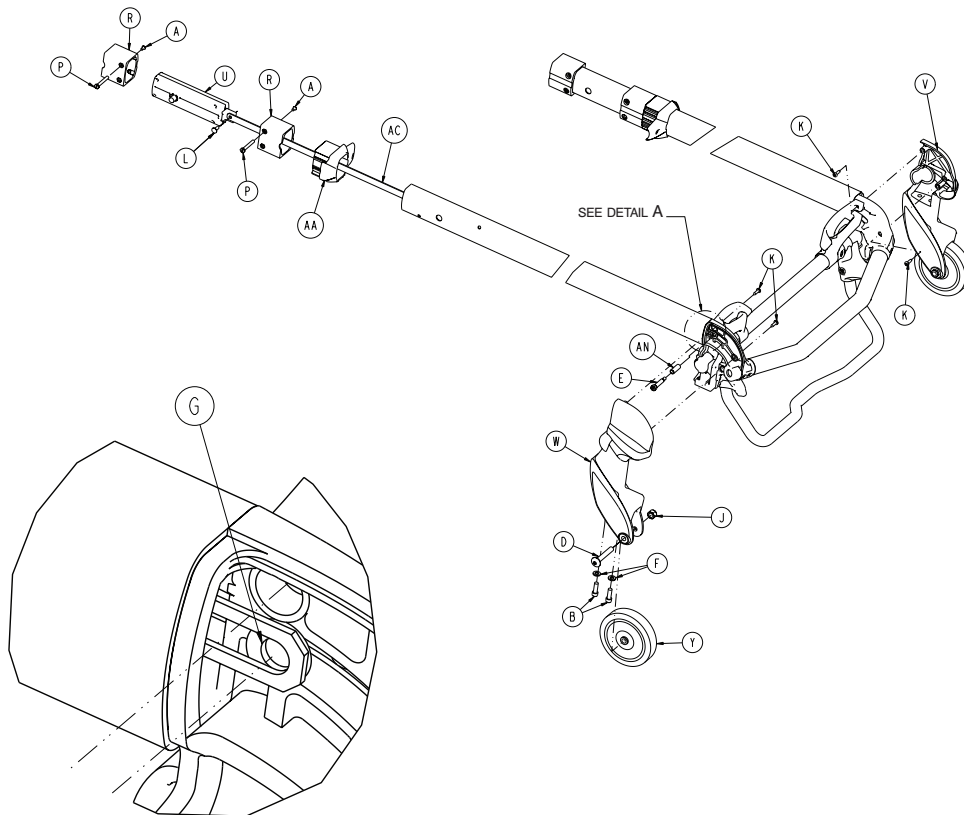
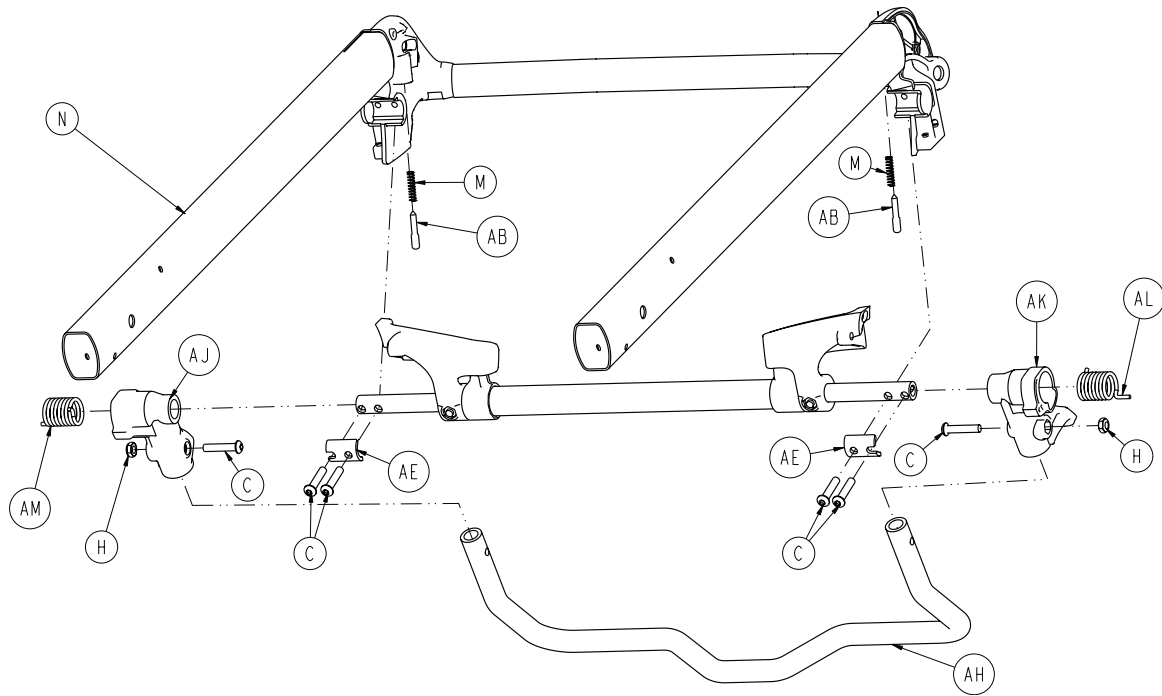
Rev B



Item	Part No.	Part Name	Qty.
B	6500-101-130	Switch	1
C	6500-001-359	Housing, Upper, Button, Foot End	1

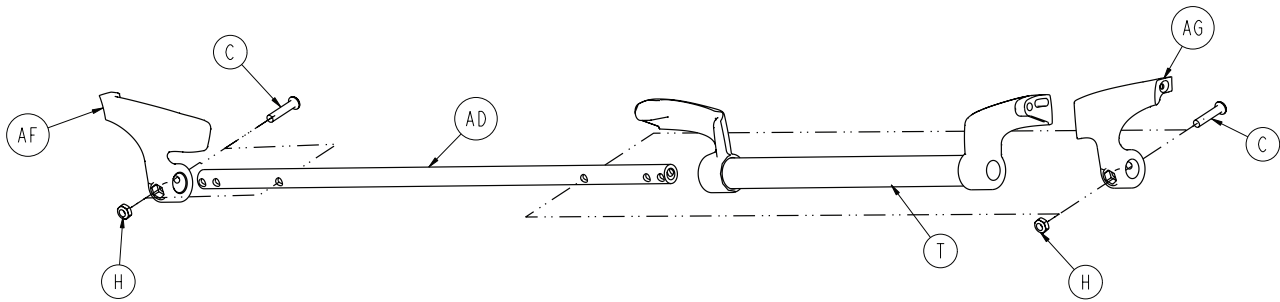
# Head Section Assembly - 6085-001-037

Rev B



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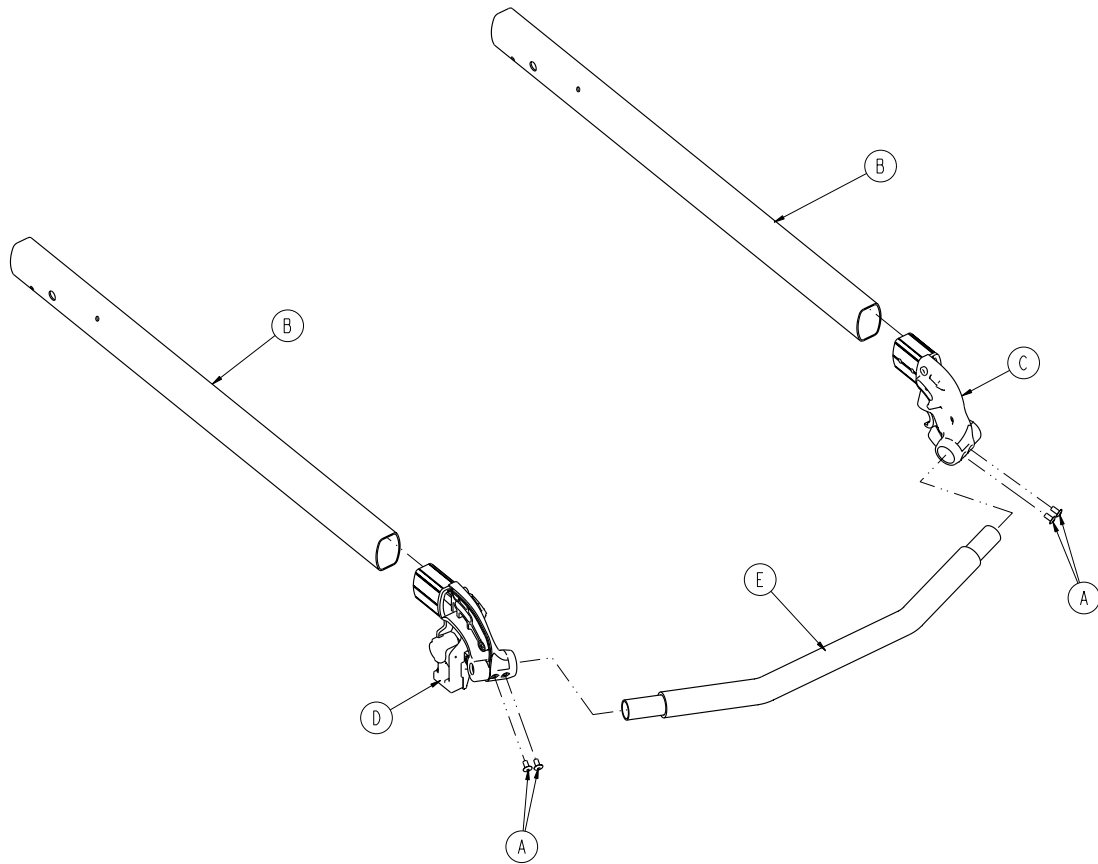
# Head Section Assembly - 6085-001-037



Item	Part No.	Part Name	Qty.
A	0004-168-000	Button Head Cap Screw	4
B	0004-591-000	Socket Head Cap Screw	4
C	0004-612-000	Button Head Cap Screw	8
D	0007-036-000	Truss Head Machine Screw	2
E	0008-030-000	Socket Head Shoulder Screw	2
F	0011-065-000	Washer	4
G	0014-002-000	Washer	2
H	0016-102-000	Nylock Hex Nut	4
J	0016-123-000	Nylock Hex Nut	2
K	0023-162-000	Delta Screw	4
L	0025-126-000	Rivet	2
M	0038-570-000	Compression Spring	2
N	6085-001-036	Telescoping Tube Assy ( <a href="#">page 111</a> )	1
P	6085-001-169	Head Section Nut	4
R	6085-001-170	Internal Bearing	4
T	6500-001-023	Head Trigger Assembly	1
U	6500-001-026	Head Section Lock Assy ( <a href="#">page 112</a> )	2
V	6500-001-082	Load Wheel Horn	1
W	6500-001-083	Load Wheel Casting	1
Y	6500-001-086	Front Wheel	2
AA	6500-001-087	Cap Bearing	2
AB	6500-001-093	Safety Bar Lock Pin	2
AC	6500-001-096	Head Section Release Link	2
AD	6500-001-220	Head Section Pivot Cross Tube	1
AE	6500-001-221	Cross Tube Clamp	2
AF	6500-001-280	Head Section Guard, Right	1
AG	6500-001-281	Head Section Guard, Left	1
AH	6500-001-322	Sliding Head Section Safety Bar	1
AJ	6500-001-323	Safety Hook Pivot, Right	1
AK	6500-001-324	Safety Hook Pivot, Left	1
AL	6500-001-325	Safety Bar Torsion Spring, Left	1
AM	6500-001-326	Safety Bar Torsion Spring, Right	1
AN	6500-001-360	Head Section Sleeve	2

# Telescoping Tube Assembly - 6085-001-036

Rev C

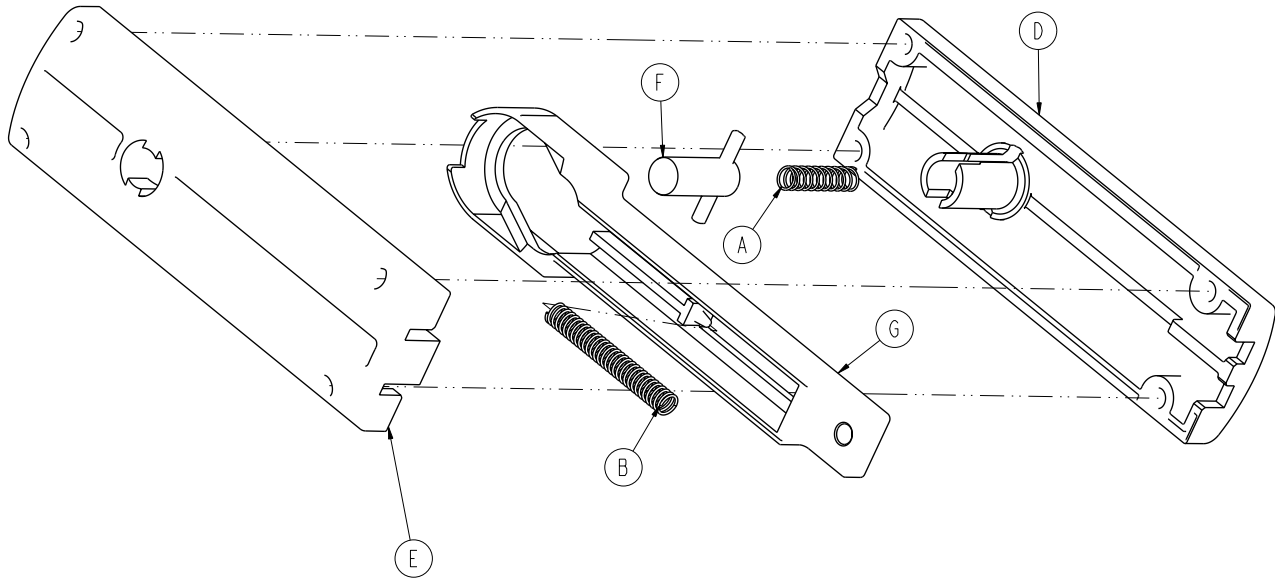


Item	Part No.	Part Name	Qty.
A	0025-079-000	Dome Head Rivet	4
B	6085-001-144	Head Section Telescoping Tube	2
C	6500-001-080	Load Wheel Casting	1
D	6500-001-081	Load Wheel Casting	1
E	6500-001-084	Front Lifting Bar	1

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# Head Section Lock Assembly - 6500-001-026

Rev C

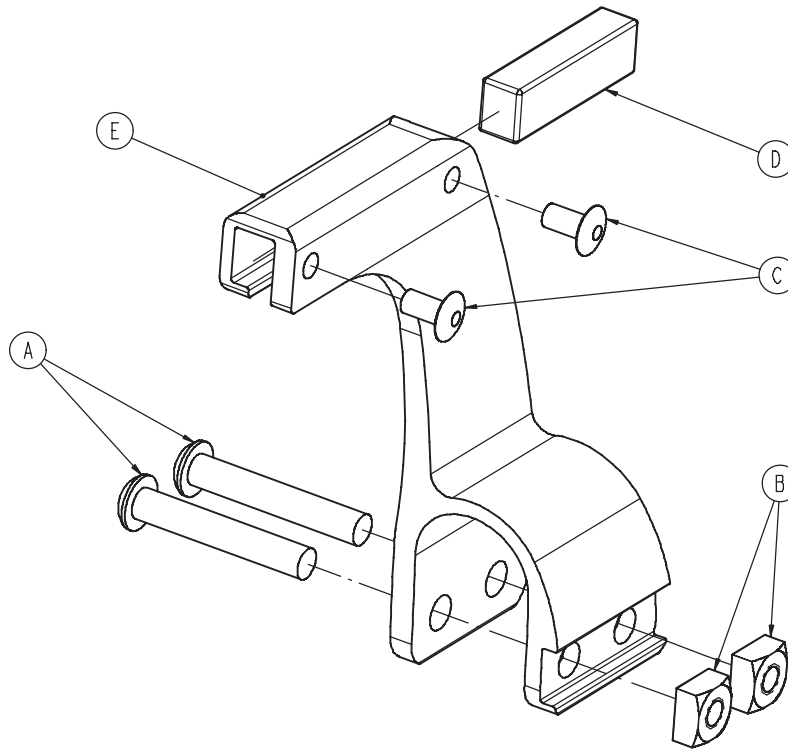


Item	Part No.	Part Name	Qty.
A	0038-570-000	Compression Spring	1
B	0038-134-000	Compression Spring	1
D	6500-001-091	Top Latch Housing	1
E	6500-001-092	Bottom Latch Housing	1
F	6500-001-025	Latch Assembly	1
G	6500-001-095	Actuation Slide	1



# In-Fastener Shut-Off Assembly - 6500-001-027

Rev C

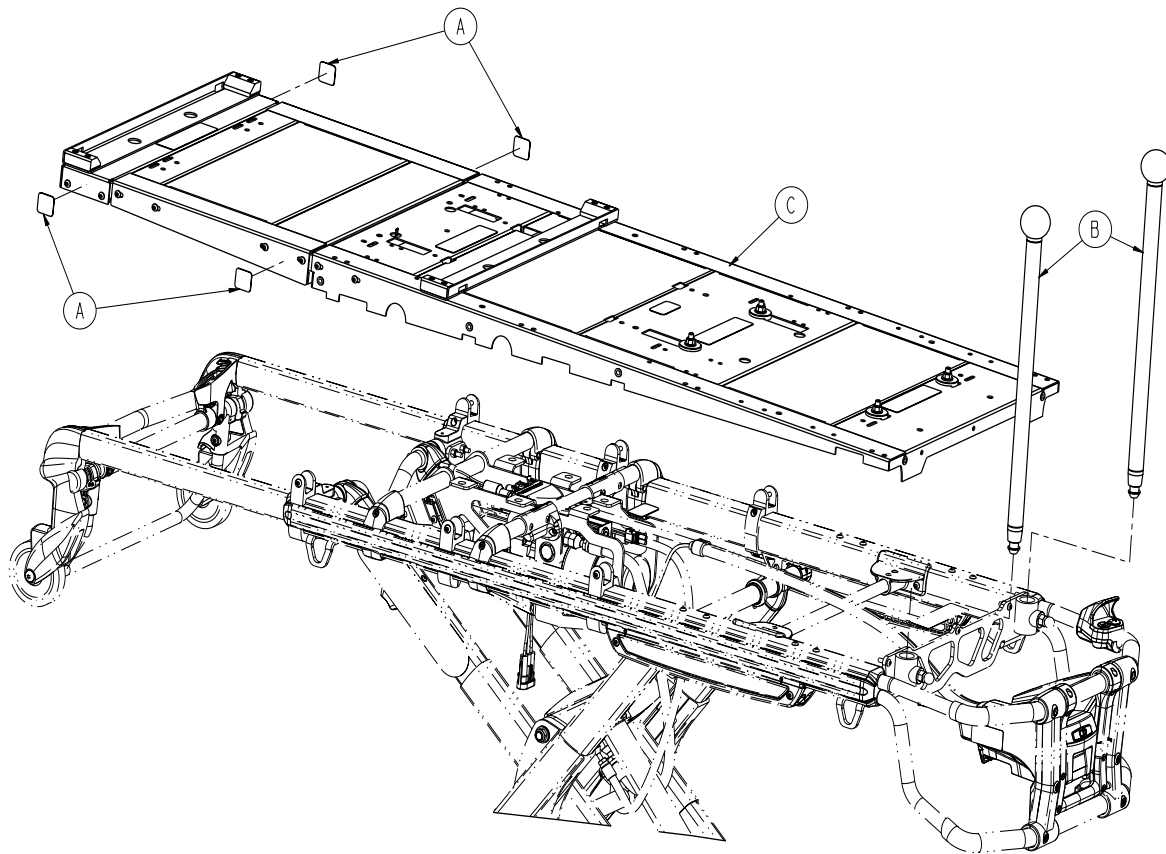


Item	Part No.	Part Name	Qty.
A	0004-376-000	Button Head Cap Screw	2
B	0015-016-000	Square Nut	2
C	0025-079-000	Rivet	2
D	6500-001-271	Magnet	1
E	6500-001-272	Holder	1

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# Airborne Side By Side Assembly Option - 6510-028-000

Rev B



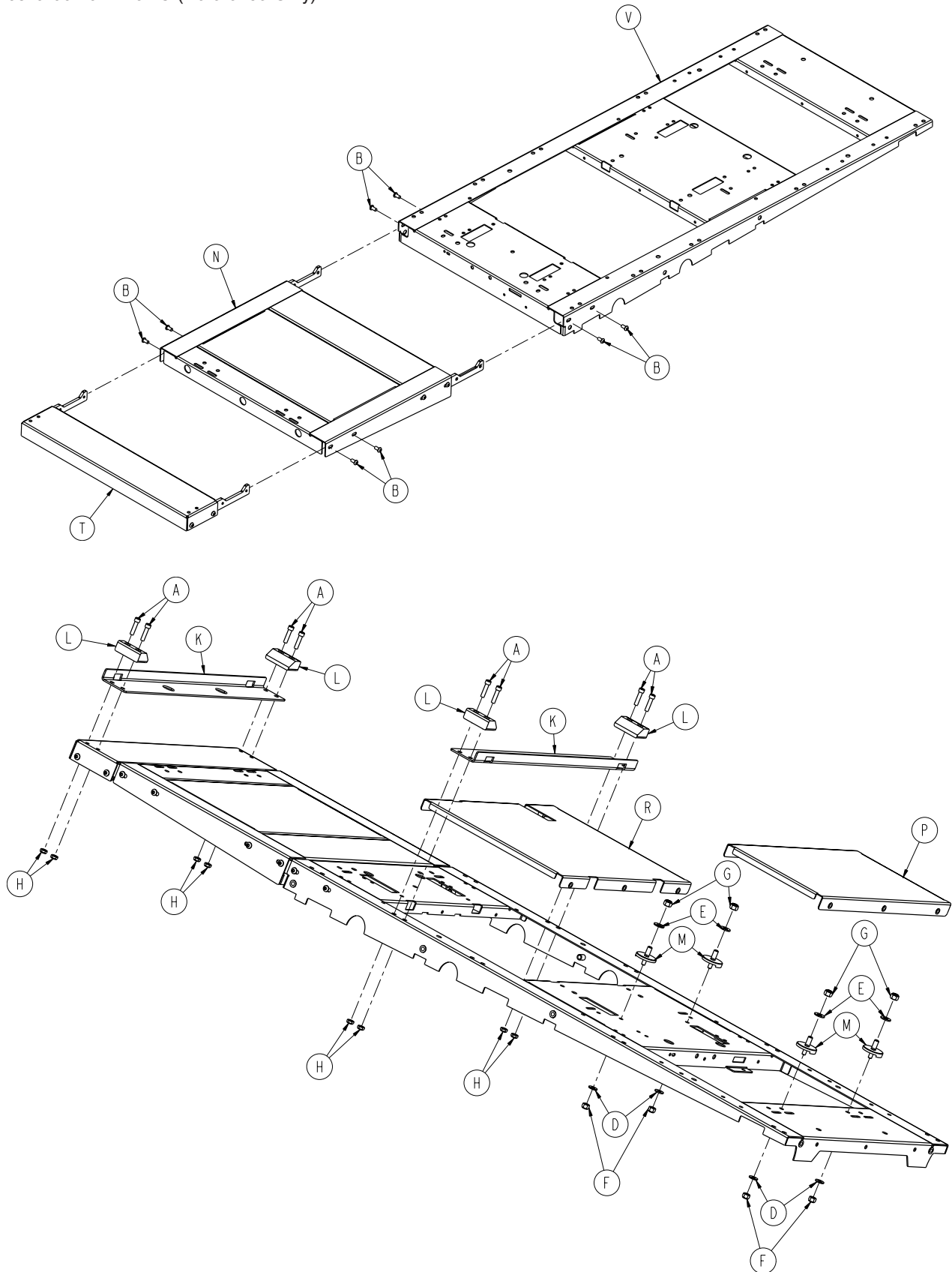
Item	Part No.	Part Name	Qty.
A	6060-090-114	Warning Label	4
B	6510-001-015	Push Bar Assembly	2
C	6510-001-017	Incubator Adaptor Assembly (Airborne Side By Side - <a href="#">page 116</a> )	1

# Notes

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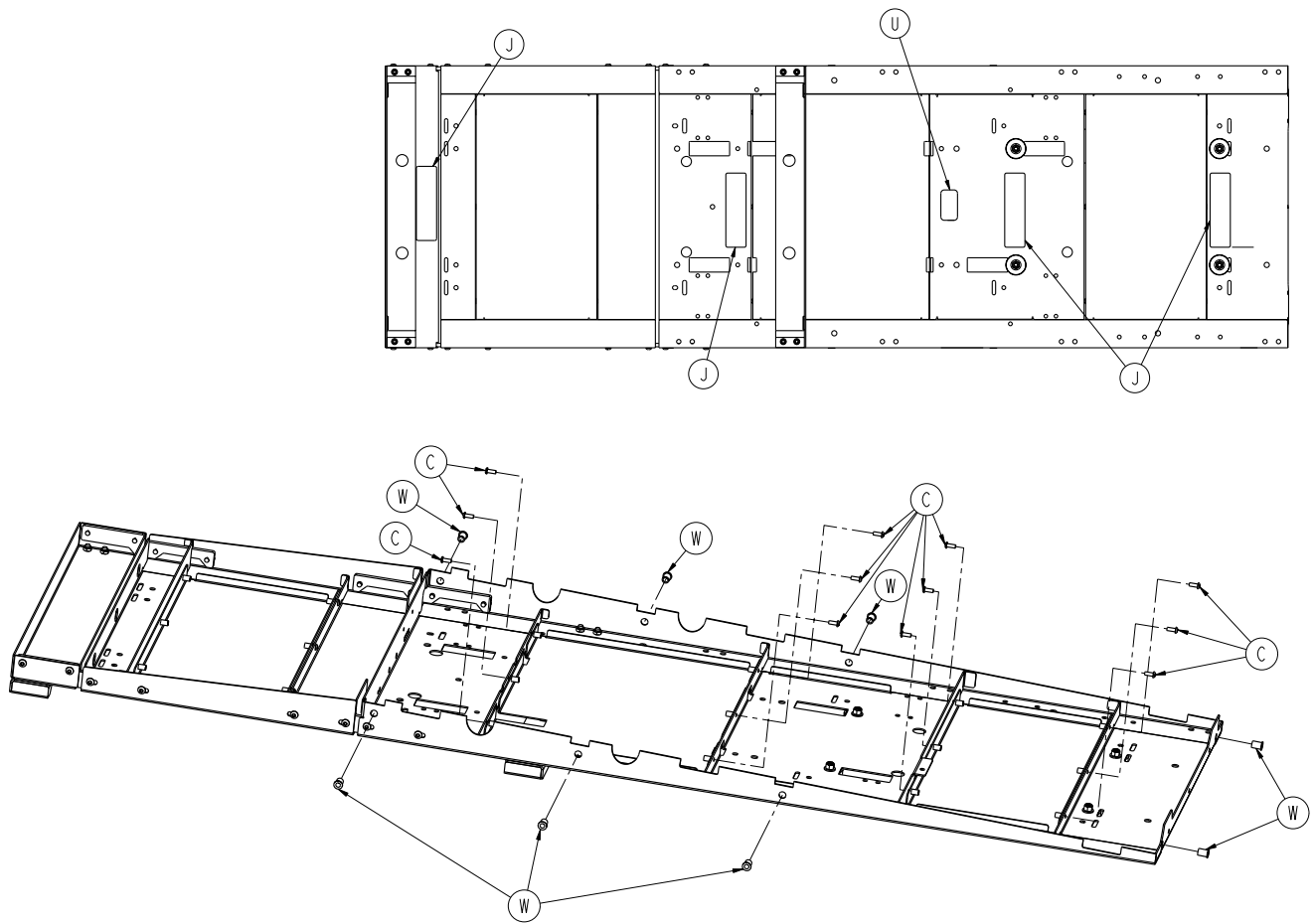
# Incubator Adaptor Assembly - Airborne Side By Side

6510-001-017 Rev C (Reference Only)



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# Incubator Adaptor Assembly - Airborne Side By Side



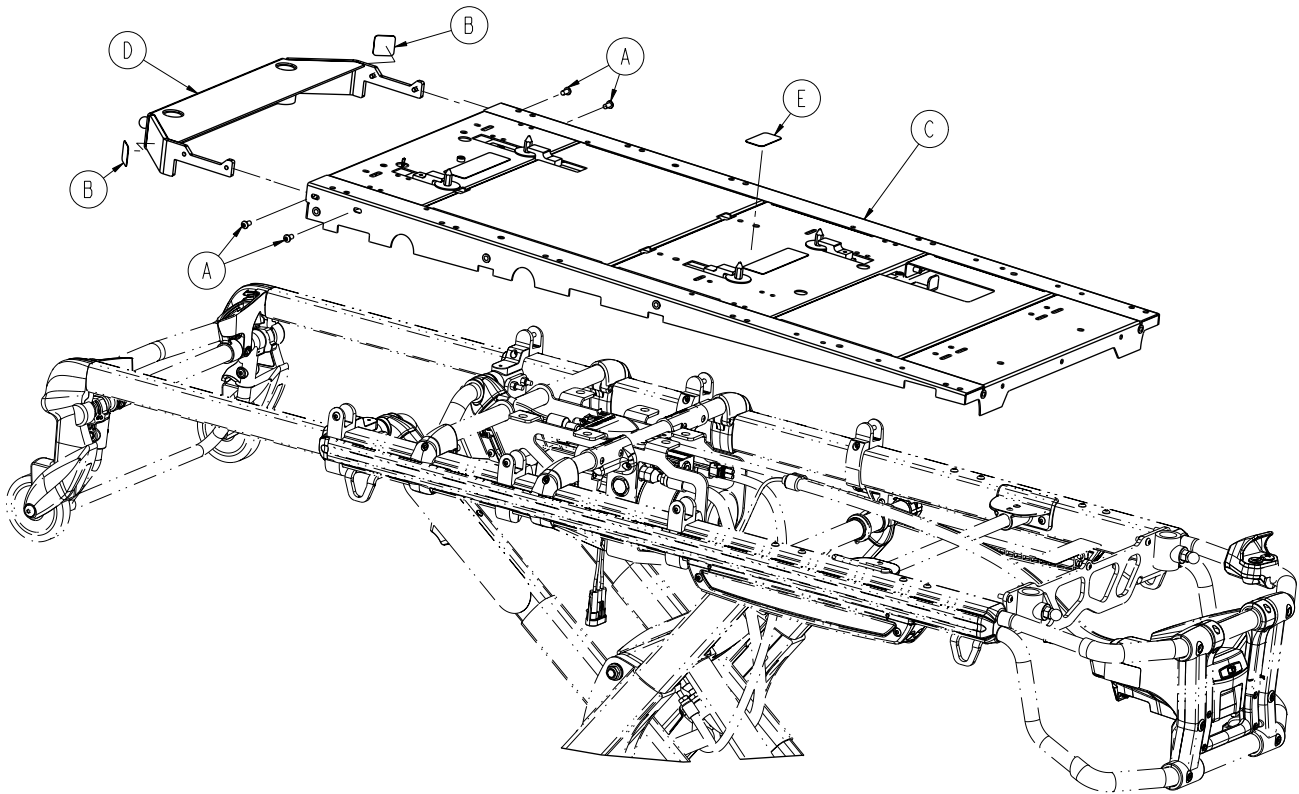
Incubator Adaptor Assembly - Airborne Side By Side - 6510-001-017 Rev C (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-028-000	Socket Head Cap Screw	8
B	0004-589-000	Button Head Cap Screw	8
C	0004-634-000	Button Head Cap Screw	12
D	0011-077-000	Washer	4
E	0011-447-000	Washer	4
F	0016-028-000	Fiberlock Hex Nut	4
G	0016-036-000	Nylock Hex Nut	4
H	0016-102-000	Nylock Hex Nut	8
J	6510-001-128	Warning Label	4
K	6510-001-131	Mounting Angle	2
L	6081-200-022	Airborne IT Cot Wedge	4
M	6081-201-020	Mounting Stud	4
N	6510-001-018	Extension Assembly	1
P	6510-001-021	Skin Assembly	1
R	6510-001-022	Skin Assembly	1
T	6510-001-026	Short Extension Assembly	1
U	6510-001-106	Spec Label	1
V	6510-001-050	Main Litter Weldment	1
W	0055-100-076	1/4-20 Riv Nut	8

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# Drager Assembly Option - 6510-029-000

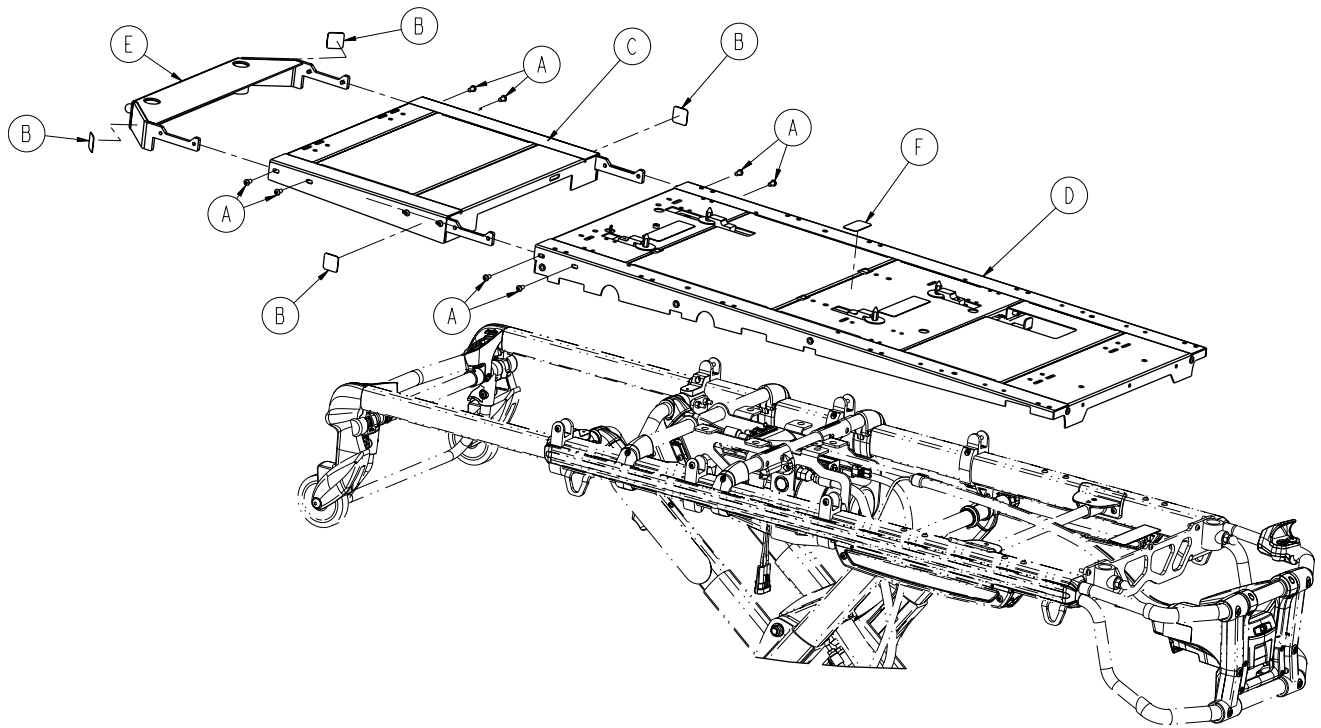
Rev B



Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	4
B	6060-090-114	Warning Label	2
C	6510-001-019	Incubator Adaptor Assembly (Drager - <a href="#">page 120</a> )	1
D	6510-001-029	Head End Push Bracket Assembly	1
E	6510-001-107	Spec Label	1

# Drager Extended Assembly Option - 6510-041-000

Rev A

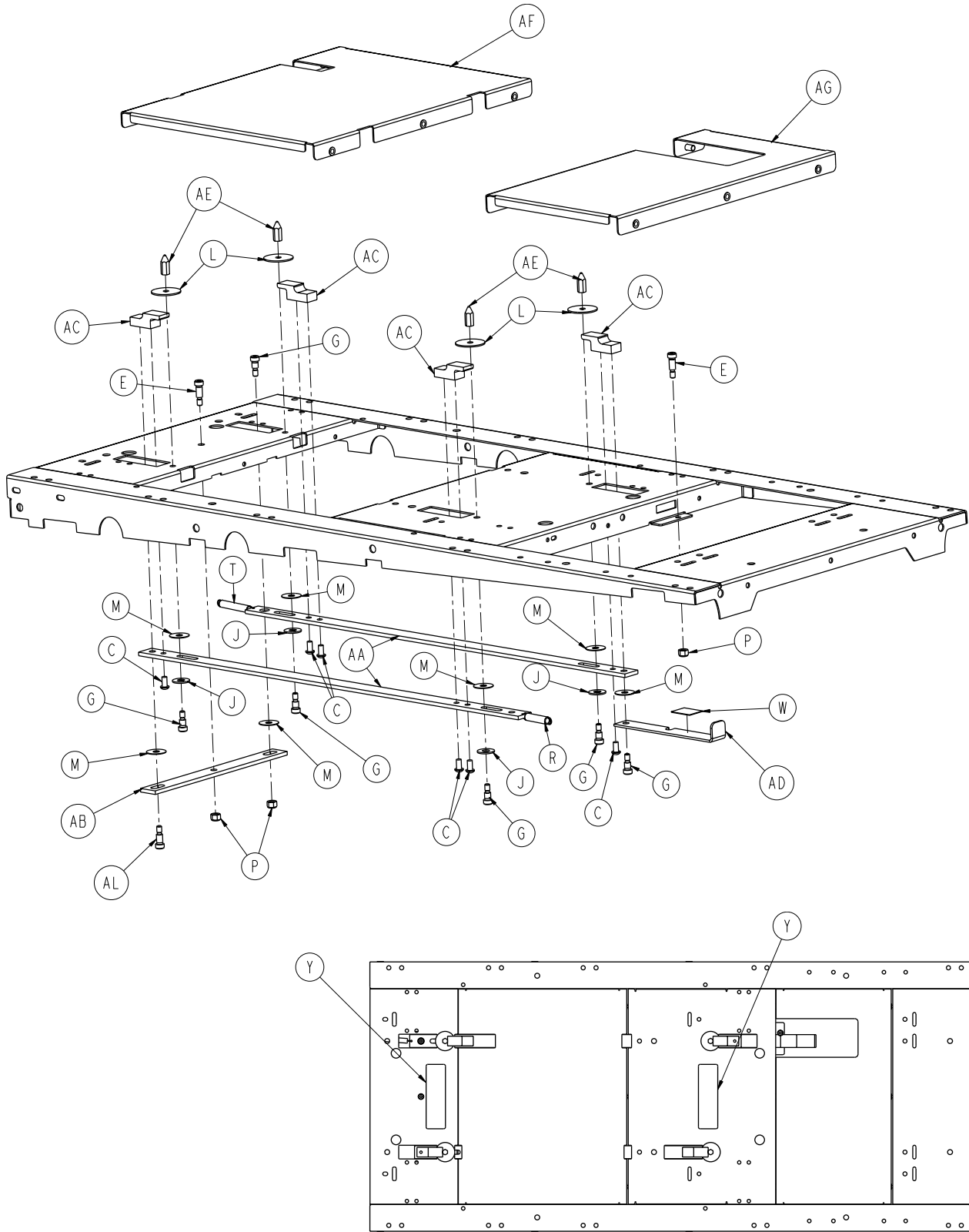


Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	8
B	6060-090-114	Warning Label	4
C	6510-001-018	Extension Assembly	1
D	6510-001-019	Incubator Adaptor Assembly (Drager - <a href="#">page 120</a> )	1
E	6510-001-029	Head End Push Bracket Assembly	1
F	6510-001-123	Drager Extended Label	1

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# Incubator Adaptor Assembly - Drager

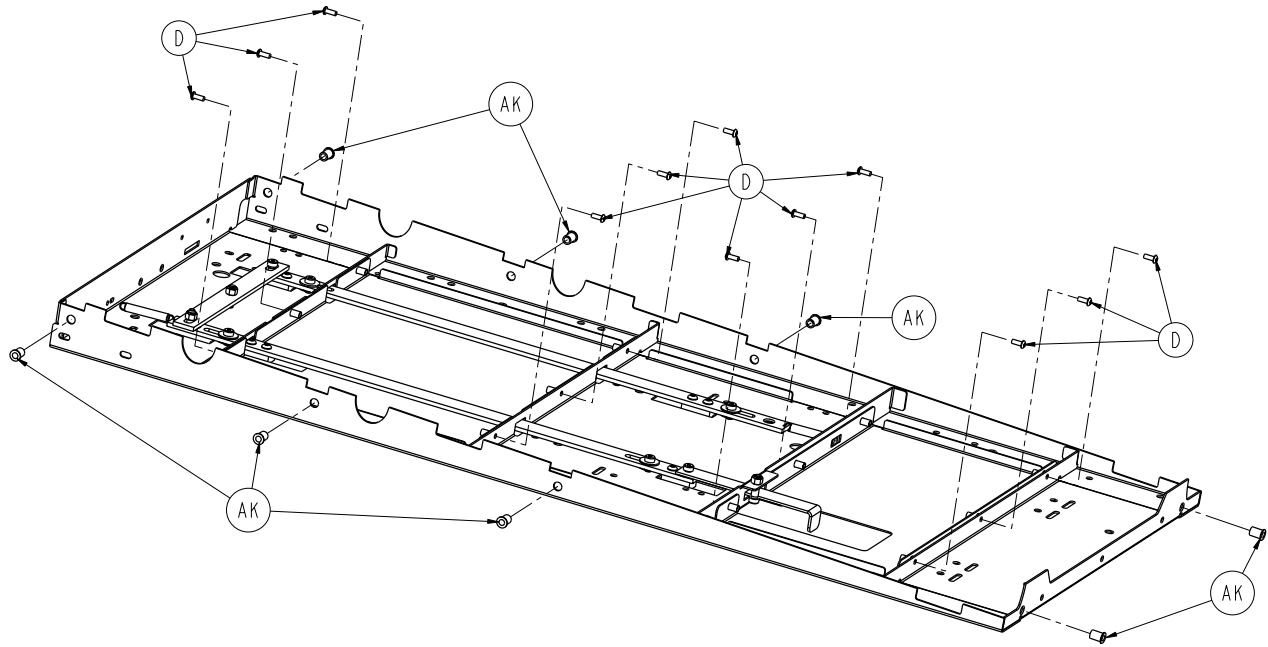
6510-001-019 Rev C (Reference Only)



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# Incubator Adapter Assembly - Drager



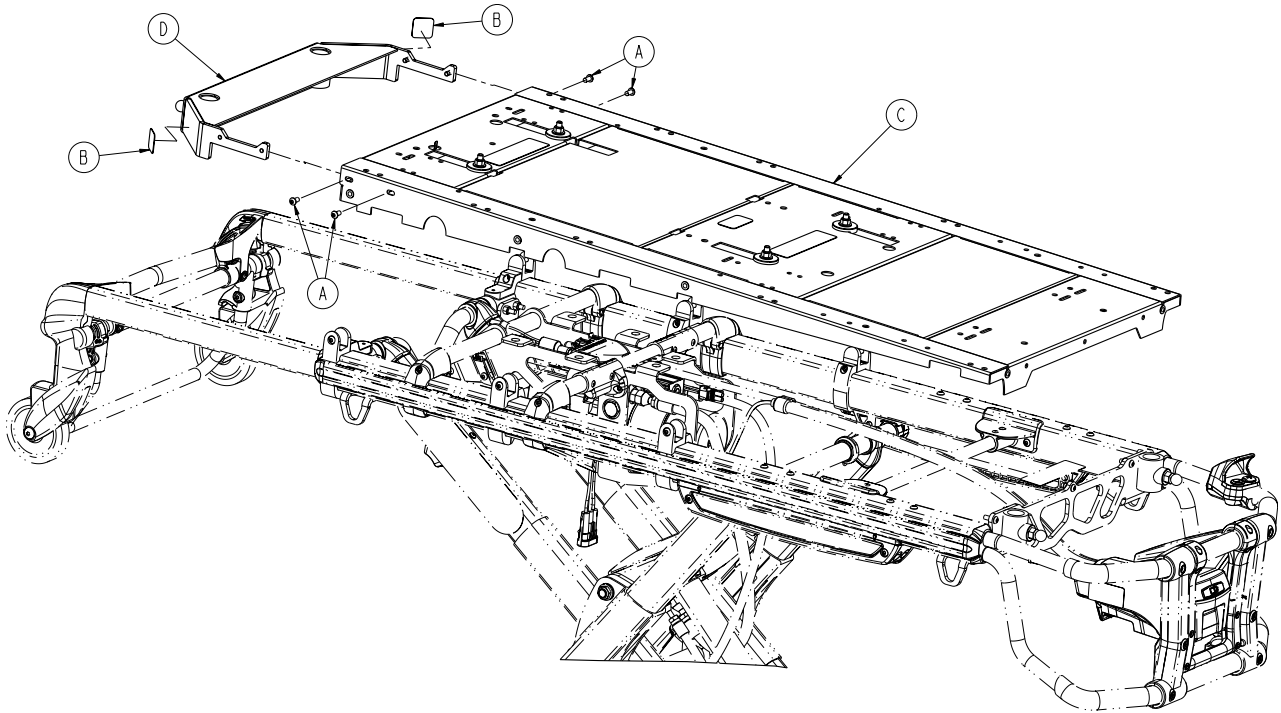
## Incubator Adapter Assembly - Drager - 6510-001-019 Rev C (Reference Only)

Item	Part No.	Part Name	Qty.
C	0004-589-000	Button Head Cap Screw	6
D	0004-634-000	Button Head Cap Screw	12
E	0008-015-000	Socket Head Shoulder Bolt	2
G	0008-051-000	Socket Head Shoulder Bolt	6
J	0011-193-000	Washer	4
L	0011-445-000	Washer	4
M	0014-019-000	Washer	7
P	0016-028-000	Fiberlock Hex Nut	3
R	0038-453-000	Extension Spring	1
T	0038-576-000	Extension Spring	1
W	6081-090-303	Lock Pull Label	1
Y	6510-001-125	Warning Label	2
AA	6081-300-020	Slide Bar	2
AB	6081-300-021	Tie Bar-Air Shields	1
AC	6081-300-022	Lock Blade	4
AD	6081-300-023	Pull Handle Air Shields	1
AE	6081-300-024	Hex Pin (Air Shields)	4
AF	6510-001-022	Skin Assembly	1
AG	6510-001-023	Skin Assembly	1
AJ	6510-001-050	Main Litter Weldment	1
AK	0055-100-076	1/4"-20 Riv Nut	8
AL	0008-049-000	Socket Head Shoulder Bolt	1

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# Airborne Stackable Assembly Option - 6510-027-000

Rev B



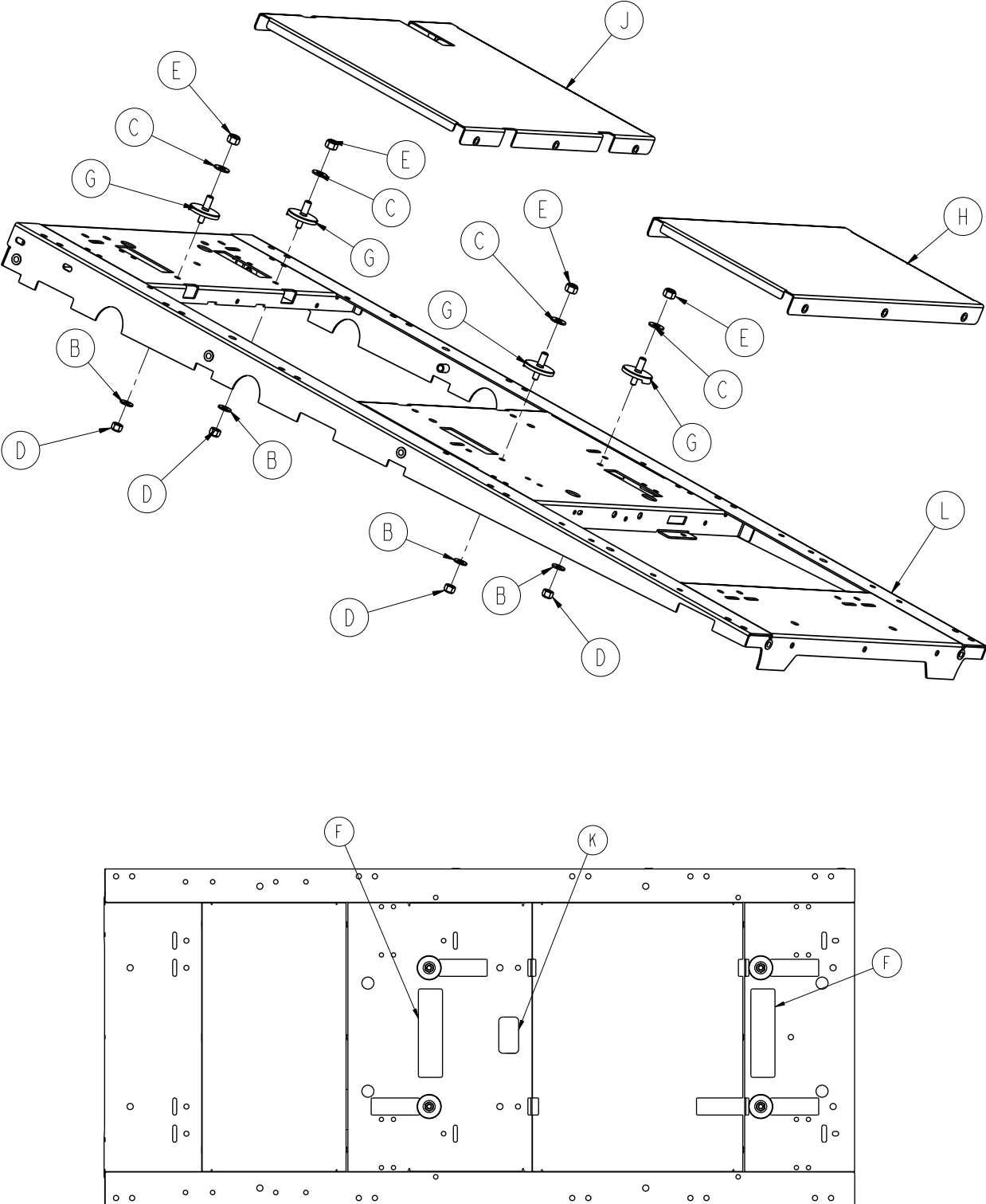
Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	4
B	6060-090-114	Warning Label	2
C	6510-001-020	Incubator Adaptor Assembly (Airborne Stackable - <a href="#">page 124</a> )	1
D	6510-001-029	Head End Push Bracket Assembly	1

# Notes

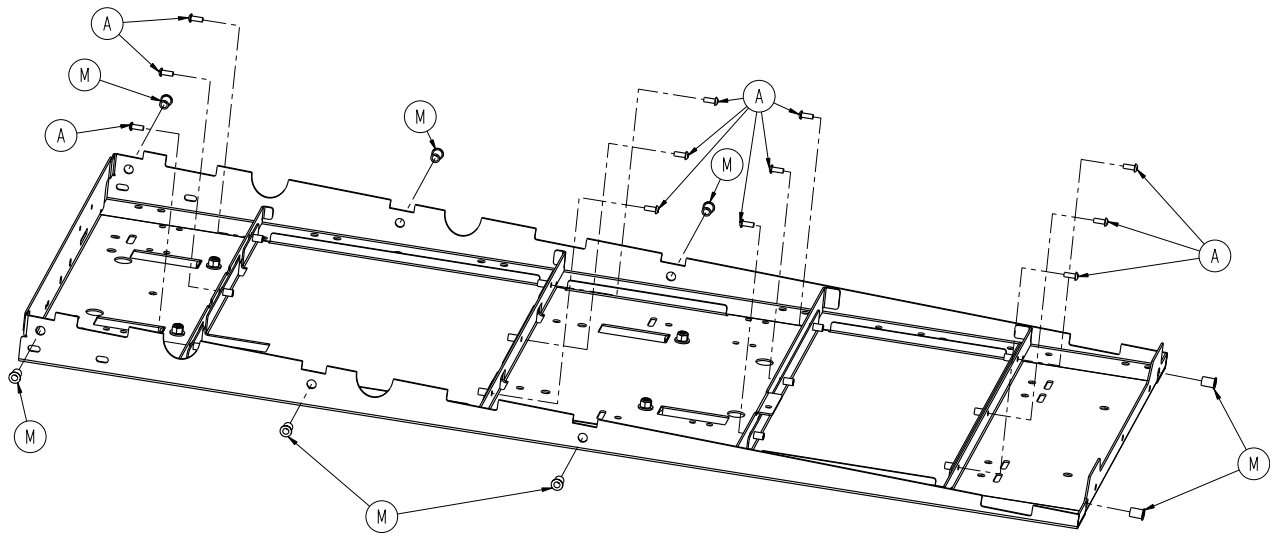
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# Incubator Adaptor Assembly - Airborne Stackable

6510-001-020 Rev C (Reference Only)



# Incubator Adapter Assembly - Airborne Stackable

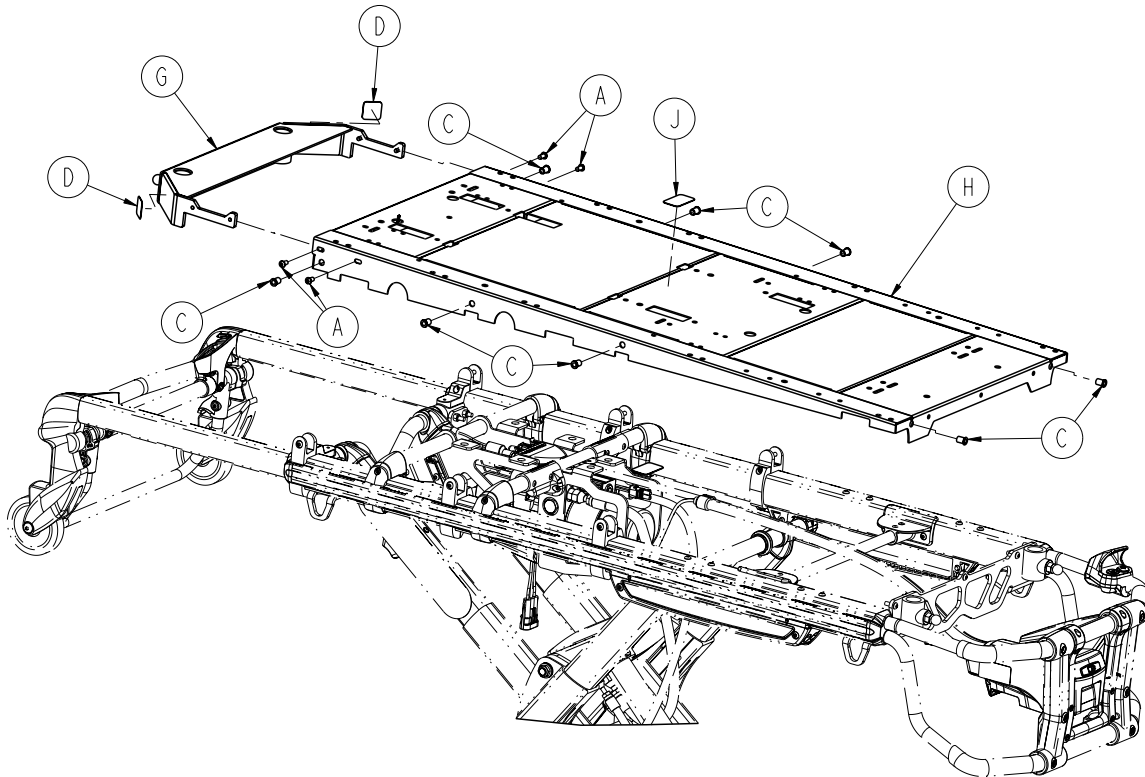


Incubator Adapter Assembly - Airborne Stackable - 6510-001-020 Rev C (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-634-000	Button Head Cap Screw	12
B	0011-077-000	Washer	4
C	0011-447-000	Washer	4
D	0016-028-000	Fiberlock Hex Nut	4
E	0016-036-000	Nylock Hex Nut	4
F	6510-001-128	Warning Label	2
G	6081-201-020	Mounting Stud	4
H	6510-001-021	Skin Assembly	1
J	6510-001-022	Skin Assembly	1
K	6510-001-105	Spec Label	1
L	6510-001-050	Main Litter Weldment	1
M	0055-100-076	Riv Nut	8

# No Adapter Assembly Option, Air Sled - 6510-042-000

Rev A



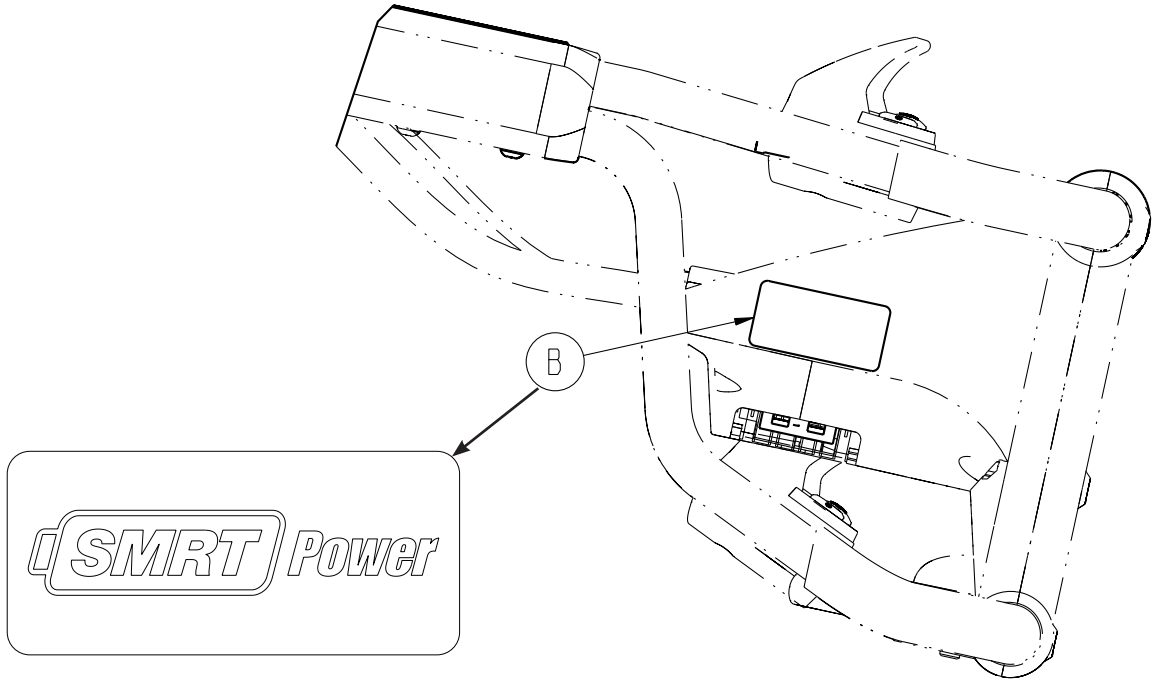
Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	4
B	0004-634-000	Button Head Cap Screw	12
C	0055-100-076	1/4"-20 Riv Nut	8
D	6060-090-114	Warning Label	2
E	6510-001-021	Skin Assembly	1
F	6510-001-022	Skin Assembly	1
G	6510-001-029	Head End Push Bracket Assembly	1
H	6510-001-050	Main Litter Weldment	1
J	6510-001-124	No Adapter Label	1

# Label, SMRT Power

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6500-027-000 Rev B (Reference Only)

6500-028-000 Rev B (Reference Only)



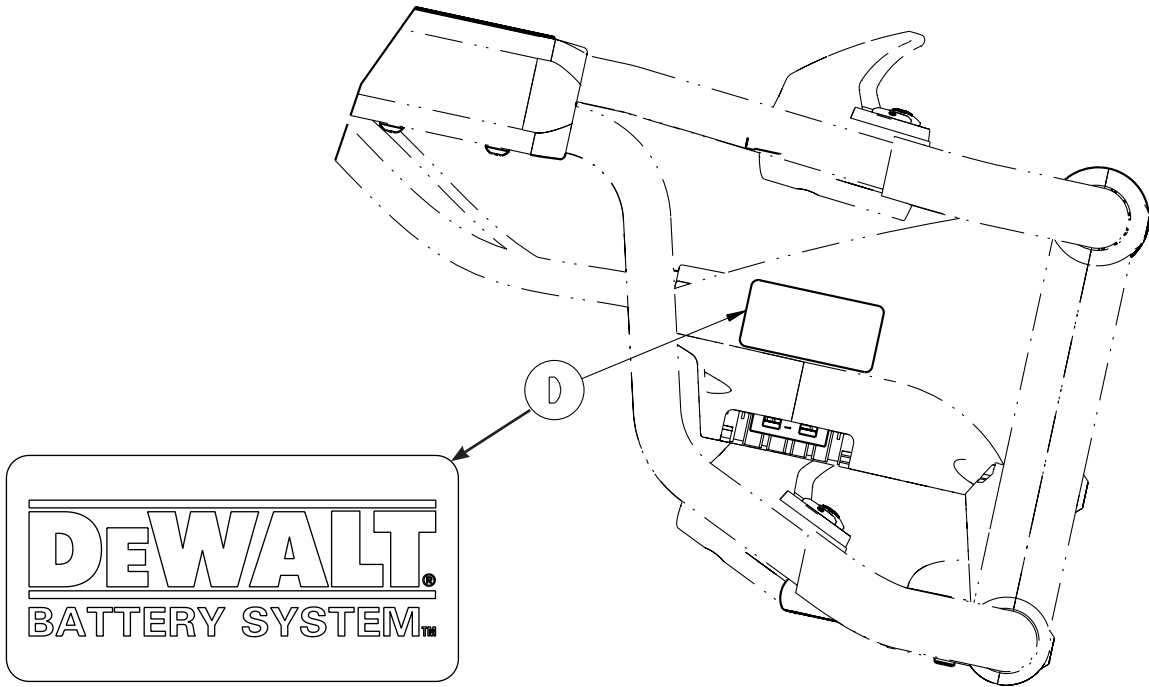
Item	Part No.	Part Name	Qty.
B	6500-001-356	Label, SMRT Power	1

# Label, DeWALT®

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6500-270-000 Rev B (Reference Only)

6500-272-000 Rev B (Reference Only)

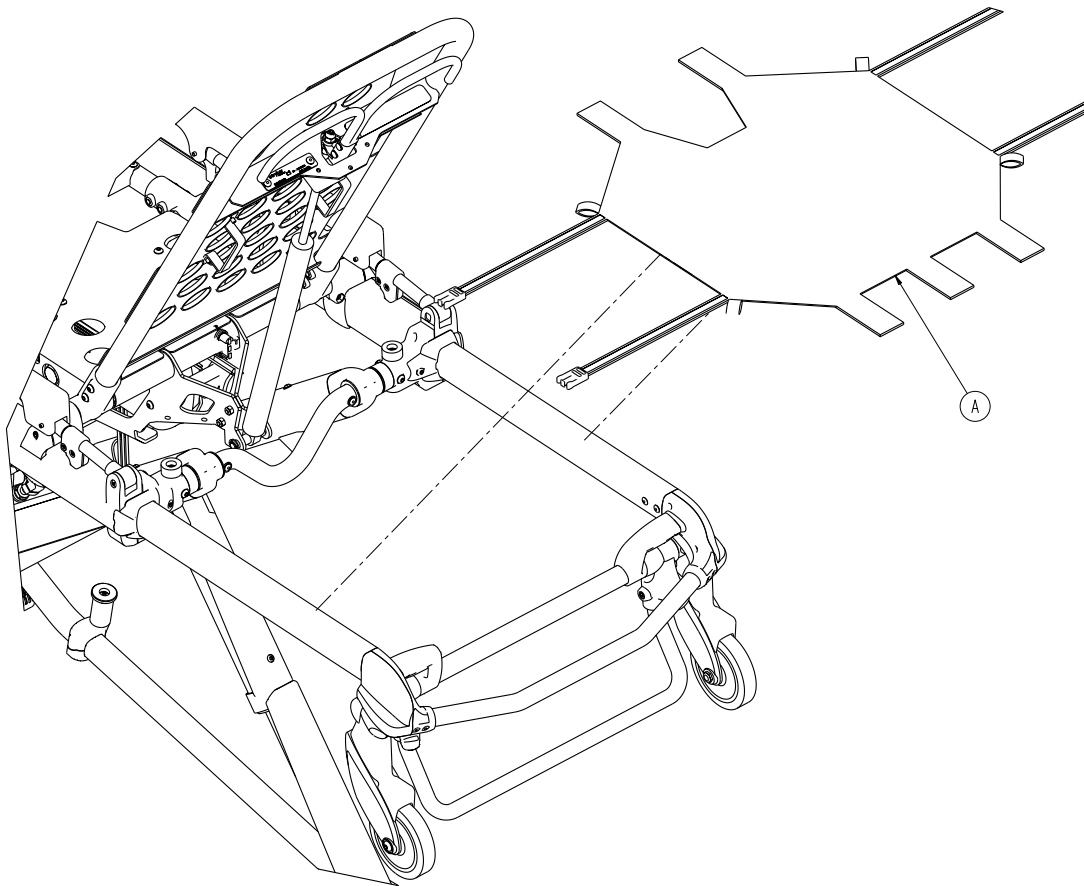


Item	Part No.	Part Name	Qty.
D	6500-001-258	Label, DeWALT®	1



# Optional Head End Storage Flat - 6500-128-000

Rev A



Item	Part No.	Part Name	Qty.
A	6500-001-232	Head End Storage Flat	1

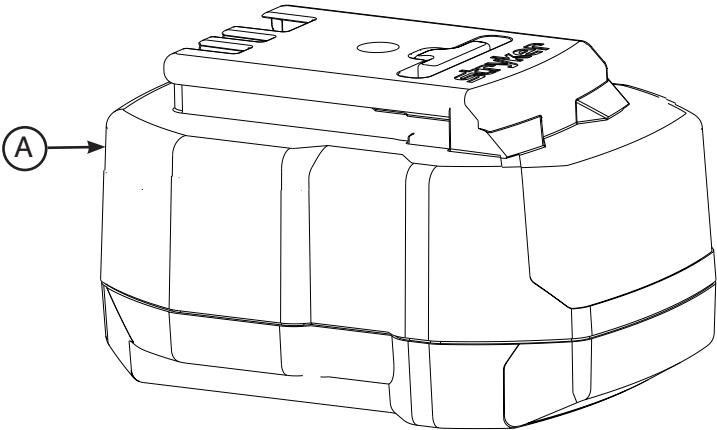
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# Recycling Passport

Assembly Part Number: 6500-101-010 (Reference Only)



View of battery



Item	Recycling/Material Code	Important Information	Qty
A	SMRT Pak (6500-101-010)	NiCd	2



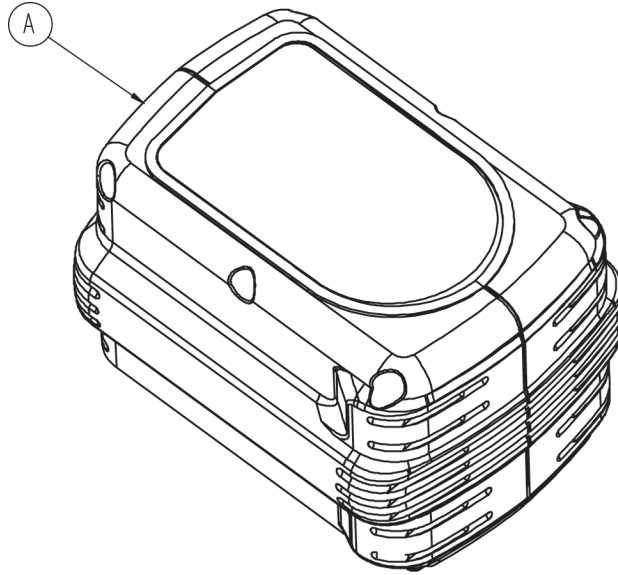
The Rechargeable Battery Recycling Corporation (RBRC) is a non-profit, public service organization that promotes the recycling of portable rechargeable batteries. Batteries must be delivered to a battery collection site. Visit the RBRC website ([www.rbrc.org](http://www.rbrc.org)) to find a nearby collection site or call the phone number shown on the recycling symbol.

# Recycling Passport

Assembly Part Number: 6500-700-006 (Reference Only)



View of battery



Item	Recycling/Material Code	Important Information	Qty
A	Battery Pack	NiCd	2

**Note:** See the DeWALT® Manual for battery recycling information.



The Rechargeable Battery Recycling Corporation (RBRC) is a non-profit, public service organization that promotes the recycling of portable rechargeable batteries. Batteries must be delivered to a battery collection site. Visit the RBRC website ([www.rbrc.org](http://www.rbrc.org)) to find a nearby collection site or call the phone number shown on the recycling symbol.

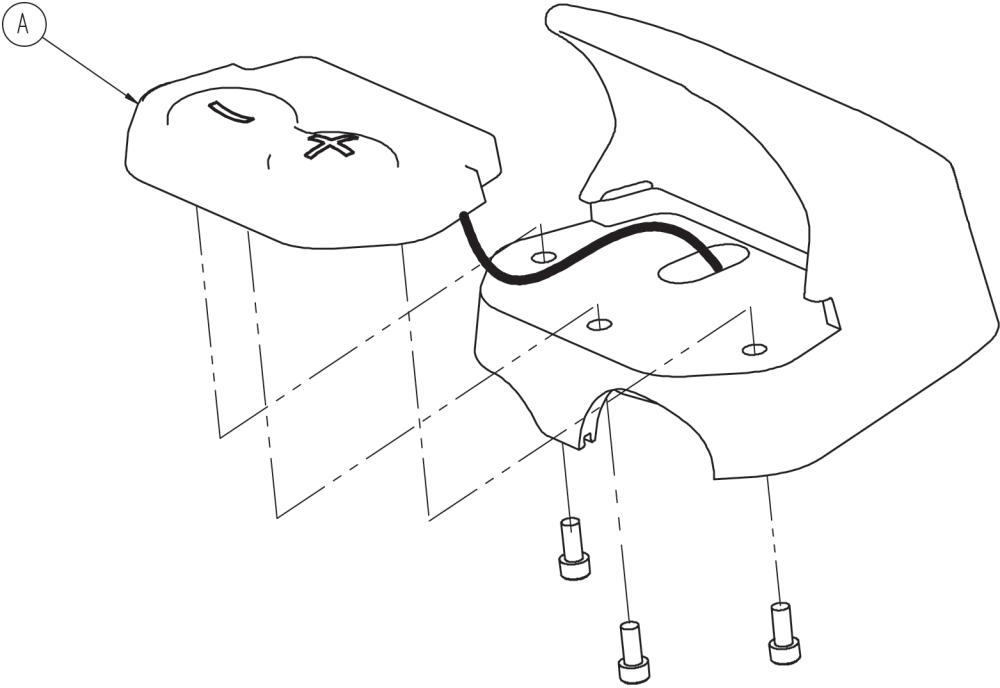
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# Recycling Passport

Assembly Part Number: 6500-101-016 (Reference Only)



Exploded view of switch assembly



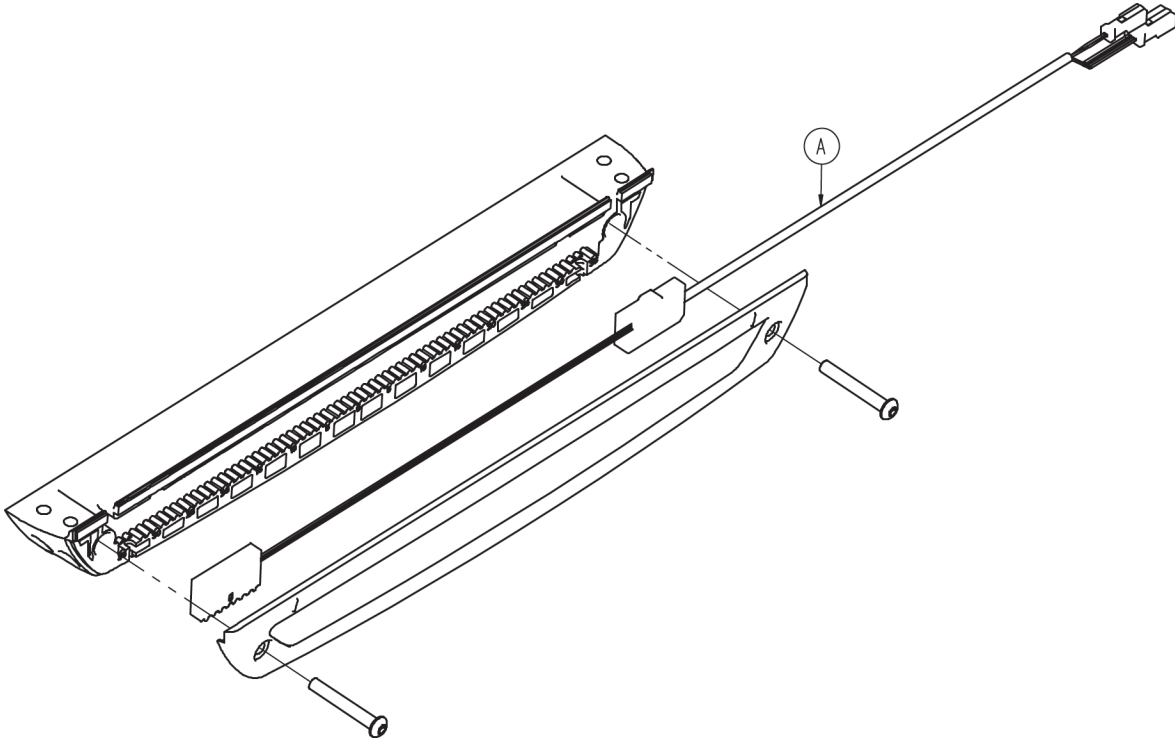
Item	Recycling/Material Code	Important Information	Qty
A	Printed Circuit Board		2

# Recycling Passport

Assembly Part Number: 6500-001-028 (Reference Only)



Exploded view of hall sensor assembly



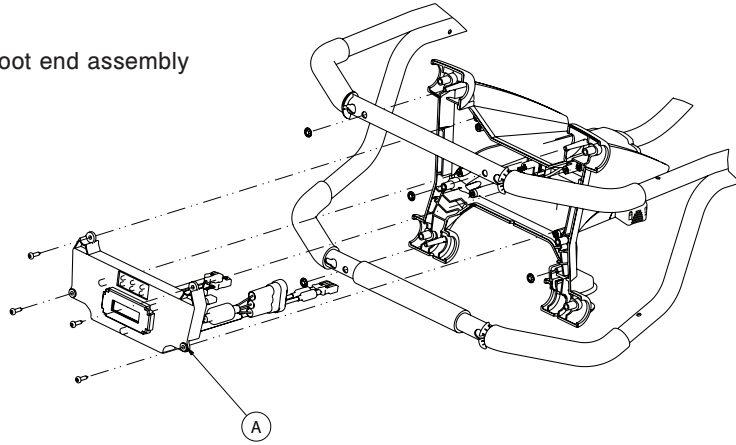
Item	Recycling/Material Code	Important Information	Qty
A	Printed Circuit Board		1

# Recycling Passport



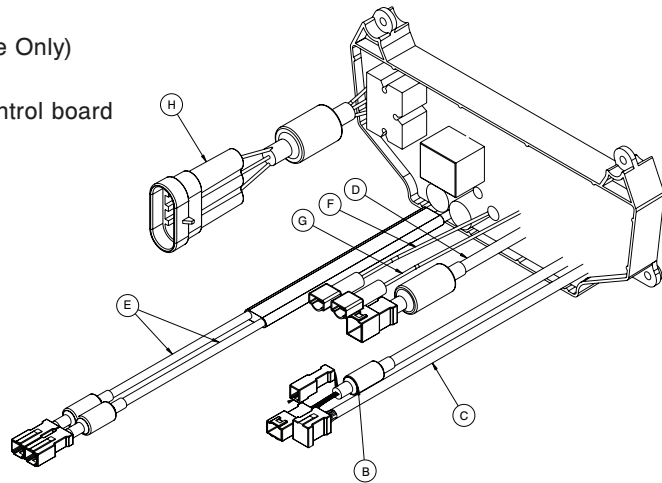
Assembly Part Number: 6500-001-015 (Reference Only)

Exploded view of foot end assembly



Assembly Part Number: 6500-001-014 (Reference Only)

Exploded view of electronics control board



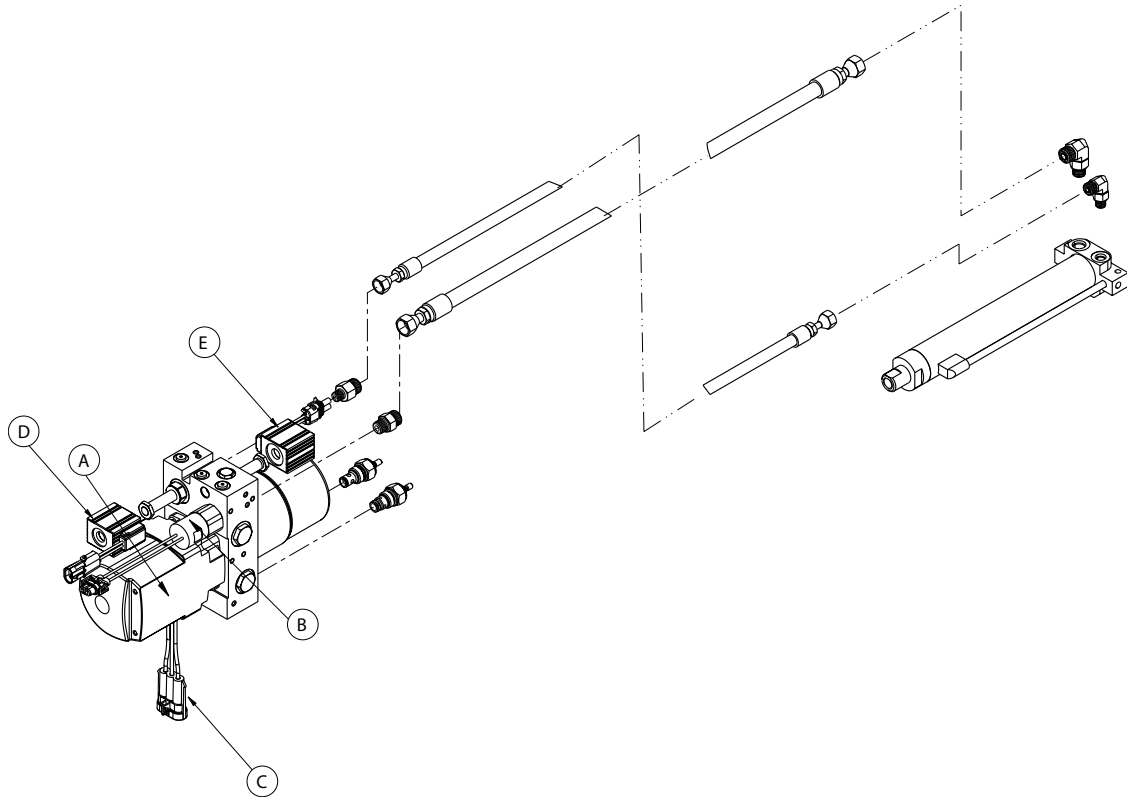
Item	Recycling/Material Code	Important Information	Qty
A	Printed Circuit Board	Contains Liquid Crystal Display	1
B	External Electrical Cable		1
C	External Electrical Cable		1
D	External Electrical Cable		1
E	External Electrical Cable		1
F	External Electrical Cable		1
G	External Electrical Cable		1
H	External Electrical Cable		1

# Recycling Passport

Assembly Part Number: 6500-001-030 (Reference Only)



Exploded view of hydraulics assembly



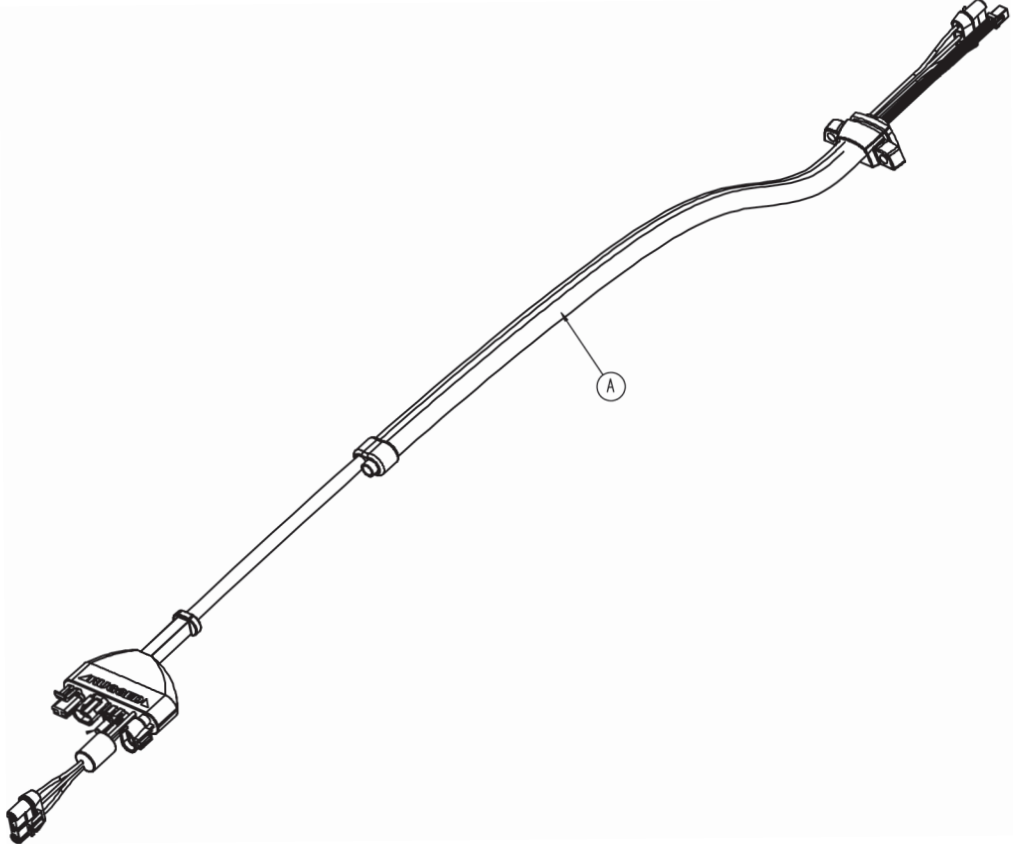
Item	Recycling/Material Code	Important Information	Qty
A	Motor	Contains Automatic Transmission Fluid*	1
B	External Electrical Cable		1
C	External Electrical Cable		1
D	External Electrical Cable		1
E	External Electrical Cable		1

\* Mobil Mercon® V Synthetic Blend or equivalent

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# Recycling Passport

Assembly Part Number: 6500-001-159 (Reference Only)



Item	Recycling/Material Code	Important Information	Qty
A	External Electrical Cable		1



# EMC Information

## POWER-PRO™ IT

Guidance and Manufacturer's declaration - Electromagnetic Immunity			
The model 6510 Power-PRO™ IT cot is suitable for use in the electromagnetic environment specified below. The customer or the user of the model 6510 Power-PRO™ IT cot should assure that it is used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment Guidance
Electrostatic Discharge (ESD) IEC 61000-4-2	±6 kV contact  ±8 kV air	±6 kV contact  ±8 kV air	Floors should be wood, concrete, or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. Applies to: <ul style="list-style-type: none"> <li>• Cot,</li> <li>• SMRT Charger (6500-201-010),</li> <li>• DeWALT® AC/DC Charger (6500-070-000),</li> <li>• DeWALT® DC/DC Charger (6500-072-000).</li> </ul>
Electrostatic fast Transient/burst IEC 61000-4-4	±2 kV for power supply lines  ±1 kV for input/output lines	±2 kV for power supply lines  ±1 kV for input/output lines	Main power quality should be that of a typical commercial or hospital environment. Applies to: <ul style="list-style-type: none"> <li>• SMRT Charger (6500-201-010),</li> <li>• DeWALT® AC/DC Charger (6500-070-000).</li> </ul>
Surge IEC 61000-4-5	±8 kV differential mode  ±2 kV common mode	±8 kV differential mode  ±2 kV common mode	Main power quality is that of a typical commercial and/or hospital environment. Applies to: <ul style="list-style-type: none"> <li>• SMRT Charger (6500-201-010),</li> <li>• DeWALT® AC/DC Charger (6500-070-000).</li> </ul>
Voltage dips, voltage variations and short interruptions on power supply input lines IEC 61000-4-11	<5% $U_T$ (>95% dip in $U_T$ ) for 0,5 cycle 40% $U_T$ (60% dip in $U_T$ ) for 5 cycles 70% $U_T$ (30% dip in $U_T$ ) for 25 cycles <5% $U_T$ (>95% dip in $U_T$ ) for 5 seconds	<5% $U_T$ (>95% dip in $U_T$ ) for 0,5 cycle 40% $U_T$ (60% dip in $U_T$ ) for 5 cycles 70% $U_T$ (30% dip in $U_T$ ) for 25 cycles <5% $U_T$ (>95% dip in $U_T$ ) for 5 seconds	Main power quality should be that of a typical commercial and/or hospital environment. If the user of the charger requires continued operation during power main interruptions, it is recommended that the device be powered from an uninterrupted power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial and/or hospital environment. Applies to: <ul style="list-style-type: none"> <li>• Cot,</li> <li>• SMRT Charger (6500-201-010),</li> <li>• DeWALT® AC/DC Charger (6500-070-000),</li> <li>• DeWALT® DC/DC Charger (6500-072-000).</li> </ul>
<b>Note:</b> $U_T$ is the alternating current mains voltage prior to application of the test level.			

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# EMC Information

## POWER-PRO™ IT (CONTINUED)

Recommended separation distances between portable and mobile RF communications equipment and the Power-PRO™ IT.			
The model 6510 Power-PRO™ IT cot is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the model 6510 Power-PRO™ IT cot can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the model 6510 Power-PRO™ IT cot as recommended below, according to the maximum output power of the communications equipment.			
Rated maximum output power of transmitter W	Separation distance according to frequency of transmitter m		
	150 kHz to 80 MHz $d=1.17\sqrt{P}$	80 MHz to 800 MHz $d=1.17\sqrt{P}$	800 MHz to 2.5 GHz $d=2.33\sqrt{P}$
0,01	0,12	0,12	0,23
0,1	0,38	0,38	0,73
1	1,2	1,2	2,3
10	3,8	3,8	7,3
100	12	12	23
For transmitters rated at a maximum output power not listed above, the recommended separation distance $d$ in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where $P$ is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.			
<b>Note 1:</b> At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.			
<b>Note 2:</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

# EMC Information

## POWER-PRO™ IT (CONTINUED)

The model 6510 Power-PRO™ IT cot is suited for use in the electromagnetic environment specified below. The customer or the user of the model 6510 Power-PRO™ IT cot should assure that it is used in such an environment.			
Immunity Test	IEC 60601 Test Level	Compliance Level	Electromagnetic Environment - Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	<p>Portable and mobile RF communications equipment should be used no closer to any part of the model 6510 Power-PRO™ IT cot, including cables, than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter.</p> <p style="text-align: center;">Recommended separation distance <math>d=1.2\sqrt{P}</math></p> <p>Applies to:</p> <ul style="list-style-type: none"> <li>• SMRT Charger (6500-201-010),</li> <li>• DeWALT® AC/DC Charger (6500-070-000)</li> </ul>
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2,5 GHz	3 V/m	$d=1.2\sqrt{P}$ 80 MHz to 800 MHz
			$d=2.3\sqrt{P}$ 800 MHz to 2.5 GHz
<p>where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <math>d</math> is the recommended separation distance in metres (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, <sup>a</sup> should be less than the compliance level in each frequency range. <sup>b</sup></p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p> <div style="text-align: center;">  </div>			
<p><b>Note 1:</b> At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p><b>Note 2:</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.</p>			
<p><sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the model 6510 Power-PRO™ IT cot is used exceeds the applicable RF compliance level above, the model 6510 Power-PRO™ IT cot should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the model 6510 Power-PRO™ IT cot.</p> <p><sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths are less than 3 V/m.</p>			

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# EMC Information

## POWER-PRO™ IT (CONTINUED)

<b>Guidance and Manufacturer's declaration - Electromagnetic Emissions</b>		
The model 6510 Power-PRO™ IT cot is intended for use in an electromagnetic environment specified below. The customer or the user of the model 6510 Power-PRO™ IT cot should assure that it is used in such an environment.		
Emissions Test	Compliance	Electromagnetic Environment
RF Emissions CISPR 11	Group 1	The model 6510 Power-PRO™ IT cot uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.
RF Emissions CISPR 11	Cot: Class A	The model 6510 Power-PRO™ IT cot is suitable for use in all establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
	SMRT Charger (6500-201-010): Class A	The SMRT Charger is suitable for use in all establishments other than domestic establishments other than domestic and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
	DeWALT® AC/DC Charger (6500-070-000): Class B	The DeWALT® AC/DC Charger and DeWALT® DC/DC Charger are suitable for use in all establishments including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
	DeWALT® DC/DC Charger (6500-072-000): Class B	
Harmonic Emissions IEC 61000-3-2	Cot: N/A	
	SMRT Charger (6500-201-010): Class A	
	DeWALT® AC/DC Charger (6500-070-000): Class A	
	DeWALT® DC/DC Charger (6500-072-000): N/A	
Voltage Fluctuations Flicker Emissions IEC 61000-3-3	Cot: N/A	
	SMRT Charger (6500-201-010): Complies	
	DeWALT® AC/DC Charger (6500-070-000): Complies	
	DeWALT® DC/DC Charger (6500-072-000): N/A	

# Warranty

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Stryker EMS, a division of the Stryker Corporation, offers one warranty option in the United States:

**Two (2) year parts and labor.** Stryker EMS warrants to the original purchaser that its products should be free from manufacturing non-conformances that affect product performance and customer satisfaction for a period of two (2) years after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product that is, in the sole discretion of Stryker, found to be defective. Expendable components, i.e. mattresses, restraints, I.V. poles, storage nets, storage pouches, oxygen straps, and other soft goods, have a one (1) year limited warranty.

The Stryker Power-PRO IT is designed for a 7 year expected service life under normal use conditions, and with appropriate periodic maintenance as described in the maintenance manual. Stryker warrants to the original purchaser that the welds on the Power-PRO IT will be free from structural defects for the expected 7 year life of the product as long as the original purchaser owns the product. Original purchasers will also obtain a three (3) year limited parts warranty for the X-frame components of the Power-PRO cot and a three (3) year limited power train warranty covering the motor pump assembly and hydraulic cylinder assembly. Stryker's obligation under this three (3) year limited warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any part that is, in the sole discretion of Stryker, found to be defective.

**SMRT Power Warranties.** Stryker EMS warrants the SMRT Charger for the same duration as the Stryker product for which it is furnished. All SMRT Paks are warranted to be free from manufacturing non-conformances that affect product performance and customer satisfaction for a period of one (1) year.

Upon Stryker's request, purchaser shall return to Stryker's factory any product or part (freight prepaid by Stryker) for which an original purchaser makes a warranty claim.

Any improper use or alteration or repair by unauthorized service providers in such a manner as in Stryker's judgment affects the product materially and adversely, shall void this warranty. Any repair of Stryker products using parts not provided or authorized by Stryker shall void this warranty. No employee or representative of Stryker is authorized to change this warranty in any way.

This statement constitutes Stryker EMS's entire warranty with respect to the aforesaid equipment. STRYKER MAKES NO OTHER WARRANTY OR REPRESENTATION EITHER EXPRESSED OR IMPLIED, EXCEPT AS SET FORTH HEREIN. THERE IS NO WARRANTY OF MERCHANTABILITY AND THERE ARE NO WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE. IN NO EVENT SHALL STRYKER BE LIABLE HEREUNDER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM OR IN ANY MANNER RELATED TO SALES OR USE OF ANY SUCH EQUIPMENT.

## **DeWALT® Product Warranty**

Any DeWALT® product purchased from Stryker EMS is covered for a period of one (1) year after date of delivery. Stryker's obligation under this warranty is expressly limited to supplying replacement parts and labor for, or replacing, at its option, any product that is, in the sole discretion of Stryker, found to be defective.

# Warranty

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## STRYKER EMS RETURN POLICY

Cots, Stair Chairs, Evacuation Chairs, Cot Fasteners and Aftermarket Accessories may be returned up to 180 days of receipt if they meet the following guidelines:

### Prior to 30 Days

- 30 day money back guarantee in effect
- Stryker EMS is responsible for all charges
- Returns will not be approved on modified items

### Prior to 90 Days

- Product must be **unused, undamaged** and in the original packaging
- Customer is responsible for a 10% restocking fee

### Prior to 180 Days

- Product must be **unused, undamaged** and in the original packaging
- Customer is responsible for a 25% restocking fee

## RETURN AUTHORIZATION

Stryker customer service department must approve any merchandise return and will provide an authorization number to be printed on any returned merchandise. Stryker reserves the right to charge shipping and restocking fees on returned items. SPECIAL, MODIFIED, OR DISCONTINUED ITEMS NOT SUBJECT TO RETURN.

## DAMAGED MERCHANDISE

ICC Regulations require that claims for damaged merchandise must be made with the carrier within fifteen (15) days of receipt of merchandise. DO NOT ACCEPT DAMAGED SHIPMENTS UNLESS SUCH DAMAGE IS NOTED ON THE DELIVERY RECEIPT AT THE TIME OF RECEIPT. Upon prompt notification, Stryker will file a freight claim with the appropriate carrier for damages incurred. Claim will be limited in amount to the actual replacement cost. In the event that this information is not received by Stryker within the fifteen (15) day period following the delivery of the merchandise, or the damage was not noted on the delivery receipt at the time of receipt, the customer will be responsible for payment of the original invoice in full.

Claims for any short shipment must be made within thirty (30) days of invoice.

## INTERNATIONAL WARRANTY CLAUSE

This warranty reflects U.S. domestic policy. Warranty outside the U.S. may vary by country. Please contact your local Stryker Medical representative for additional information.

## PATENT INFORMATION

The Stryker Power-PRO IT cot is covered by one or more of the following patents:

United States	5,537,700	5,575,026	6,908,133	7,398,571	7,540,047
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Other patents pending

The Stryker SMRT Power System is covered by one or more of the following patents:

United States	5,977,746	6,018,227
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Other patents pending





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