Power-PRO™ IT

REF 6516

stryker®

Operations/Maintenance Manual

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

CE

Table of Contents

Table of Contents

Table of Contents

Table of Contents

Return To Table of Contents

Symbols and Definitions

SYMBOLS

	Attention, consult accompanying documents
	Safe Working Load
	Dangerous Voltage
	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)
IPX6	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.

Return To Table of Contents

Symbols and Definitions

WARNING/CAUTION/NOTE DEFINITION

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

WARNING

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

CAUTION

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

NOTE

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

Return To Table of Contents

Introduction

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

PRODUCT DESCRIPTION

The Stryker Model 6516 **Power-PRO™** IT is a powered incubator transport ambulance cot that consists of a platform mounted on a wheeled X-frame designed to support and transport a maximum weight of 700 pounds in pre-hospital and hospital environments. The device is collapsible for use in emergency vehicles and has an adjustable load height feature to allow the device to be set to different ambulance deck heights for proper body mechanics during loading and unloading. The NiCd battery-powered hydraulic lift system allows operators to raise and lower the cot using the powered controls, while duplicate foot-end controls on the upper and lower lift bars accommodate different operator positions or sizes. The cot is equipped with a manual back-up release handle to allow the operation of cot functions in the event of power loss. The device is equipped with a retractable head section for 360-degree mobility in any height position, four platform options for incubator system compatibility and various optional accessories that assist with transport of the patient.

INTENDED USE OF PRODUCT

The **Power-PRO™** IT is a powered incubator transport wheeled stretcher, which is intended to support a rigidly affixed incubator system and transport the entire body of a traumatized, ambulatory or non-ambulatory human patient while incubated. The battery-powered hydraulic lift system, is intended to help reduce the effort required by the operator to raise and lower the cot. The device is designed to provide a level patient surface at transport and working heights, and facilitate the transportation of associated medical equipment (i.e. oxygen bottles, monitors, and/or pumps) in emergency/transport vehicles. This ambulance cot is intended to be used in pre-hospital and hospital environments, in emergency and non-emergency applications. It is rated to a maximum capacity of 700 pounds (sum of the patient, incubator and accessory weight) and the intended operators of the device are trained professionals including: nurses, doctors, emergency medical service and medical care center personnel, as well as medical first responders. The expected service life of the product is 7 years.

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

Return To Table of Contents

SPECIFICATIONS

	Safe Working Load **Note:** Safe Working Load indicates the sum of the patient and accessory weight.	700 lb	318 kg
Maximum Unassisted Lift Capacity [1]		500 lb	227 kg
Backrest Articulation/Shock Position		Not applicable	
Overall Length/Minimum Length/Width		81 in / 63 in / 23 in	206 cm / 160 cm / 58 cm
Height[2]		Adjustable from 14 in to 41.5 in	Adjustable from 36 cm to 105 cm
Weight[3]		134 lb	61 kg
Caster Diameter/Width		6 in / 2 in	15 cm / 5 cm
Minimum Operators Required for Loading/ Unloading an Occupied Cot		2	
Minimum Operators Required for Loading/ Unloading an Unoccupied Cot		1	
Recommended Fastener Systems		Model 6370 or 6377 Floor Mount Type Model 6371 Wall Mount Type Model 6390 **Power-LOAD™**	
Recommended Loading Height[4]		Up to 36 in	Up to 91 cm
Roll-In Style		Yes	
Single Adjustable Wheel Lock/ Double Adjustable Wheel Lock		Optional	
Hydraulic Oil		Stryker Part Number 6500-001-293	
Power System			
	Battery	24V DC NiCd - **SMRT™** Power System	
	Charger	120V/240V AC or 12V DC - **SMRT™** Power System	
Standards (Cots and Chargers)		IEC 60601-1 CAN/CSA-C22.2 No. 601.1-M90 UL 60601-1 IEC 60601-1-2:2001 KKK-A-1822	

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

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

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

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

Stryker reserves the right to change specifications without notice.

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

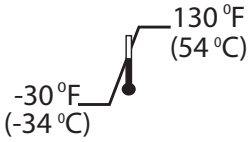
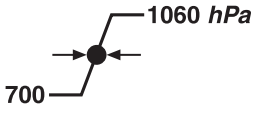
The **Power-PRO™** IT is designed to be compatible with competitive cot fastener systems.

Patents pending.

Stryker hereby declares that this Power-PRO IT ambulance cot (model 6516) is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. A copy of the original declaration of conformity can be obtained by contacting Stryker Medical at 3800 E. Centre Ave. Portage, MI 49002 Attn. Regulatory Affairs.

Return To Table of Contents

SPECIFICATIONS (CONTINUED)

Environmental Conditions	Operation
Temperature	
Relative Humidity	
Atmospheric Pressure	

⚠ CAUTION

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

Return To Table of Contents

CONTACT INFORMATION

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

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

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

SERIAL NUMBER LOCATION

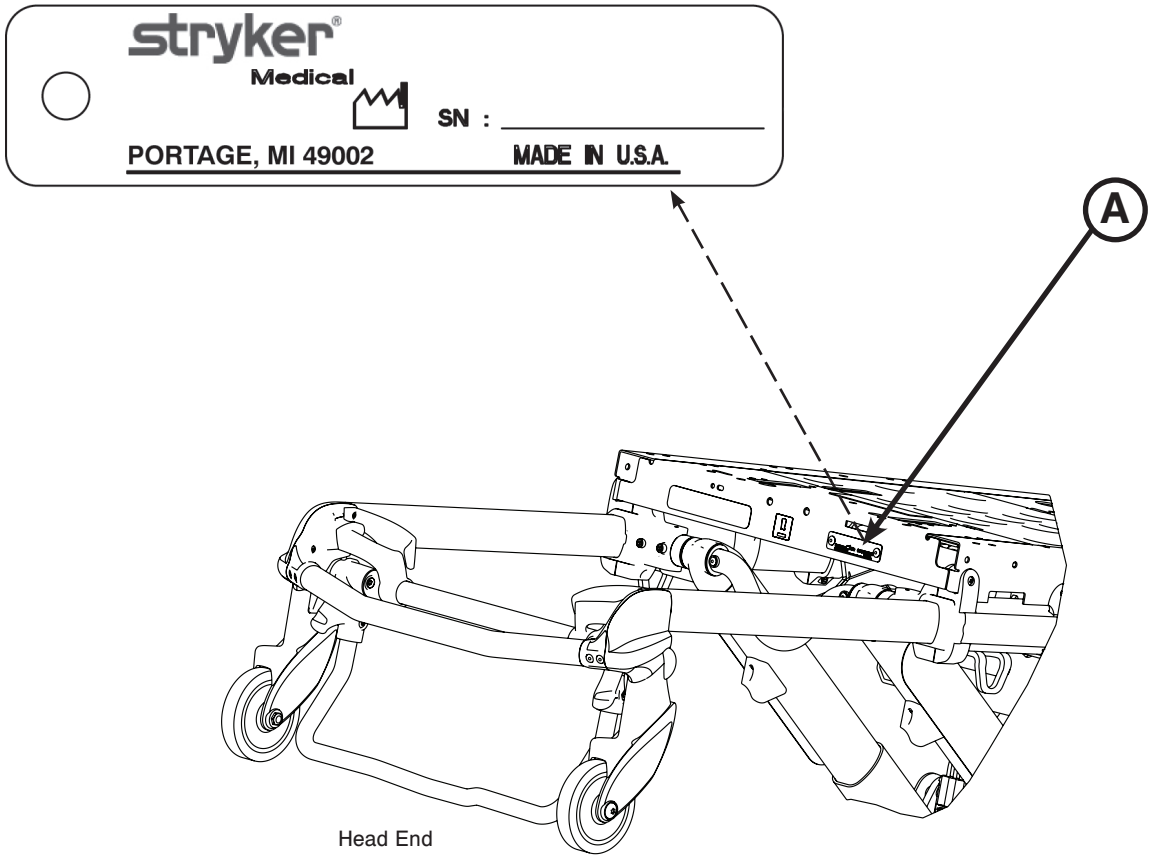


Figure 1: Cot Serial Number & Location

Return To Table of Contents

PRODUCT ILLUSTRATION

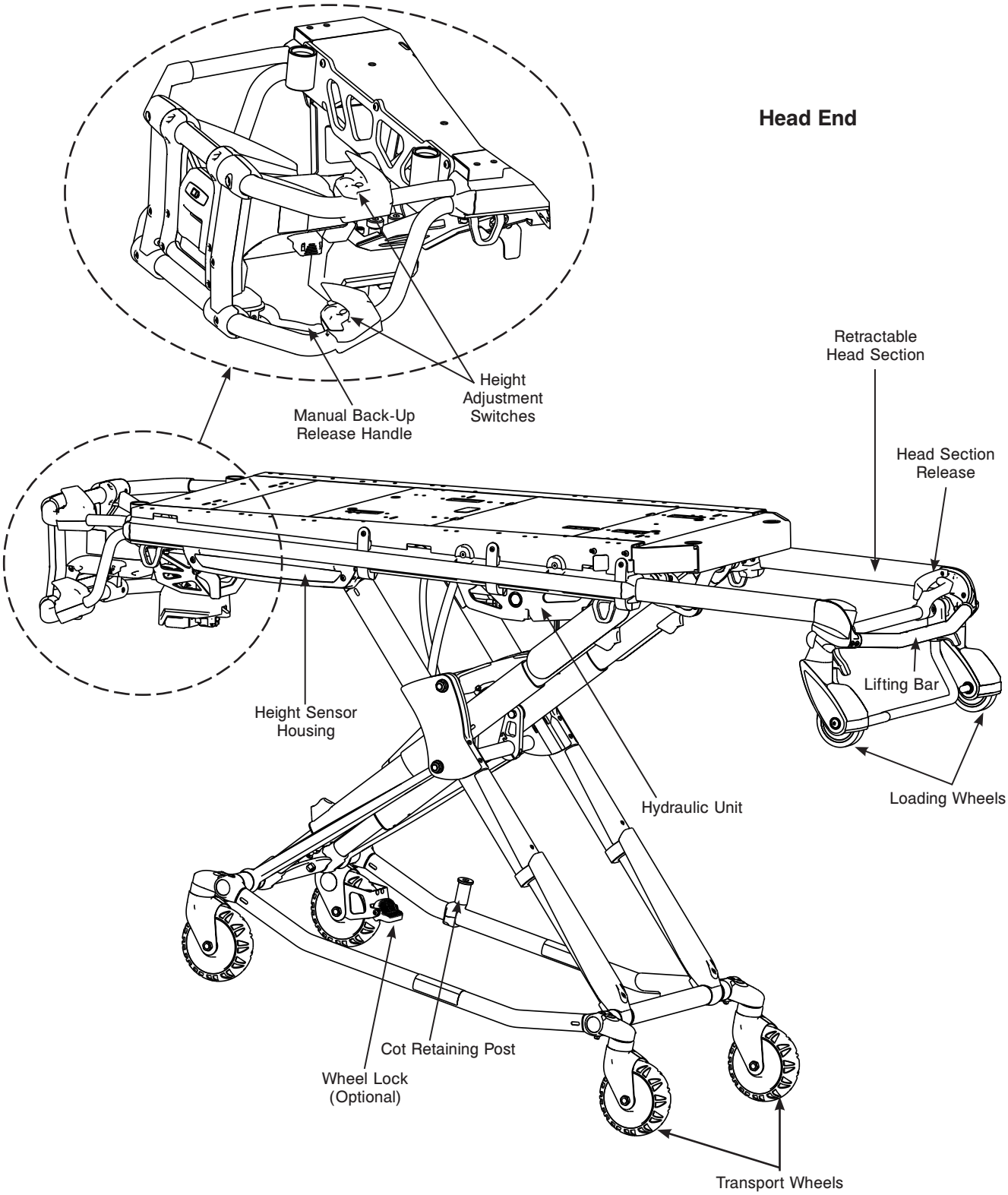


Figure 2: Cot Components

Return To Table of Contents

Summary of Safety Precautions

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

⚠ 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.
- 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 160).
- Any emergency vehicle to be used with this cot must have the in-fastener shut-off system installed (if not using Power-LOAD) (see page 24).
- It is the responsibility of the cot operator to ensure that the cot being used in the Stryker Cot Fastener Systems meets the installation specifications listed on page 23. Injury may result if a non-compatible cot is used in the Stryker Fastener System.
- 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. Install and use the safety hook as described on page 26.
- The face of the safety hook that engages the safety bar should be located at least 3-3/4” from the leading edge of the door sill. After installation, verify that the cot legs lock into the load position without contacting the vehicle 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 height into position can cause injury to the patient or operator and/or damage to the cot.
- To avoid risk of electric shock, never attempt to open the battery pack for any reason. If the battery pack case is cracked or damaged, do not insert it into the charger. Return damaged battery packs to a service center for recycling.
- Do not remove the battery when the cot is activated.
- Avoid direct contact with a wet battery or battery enclosure. Contact may cause injury to the patient or operator.
- Entanglement in powered cot mechanisms can cause serious injury. Operate the cot only when all persons are clear of the mechanisms.
- Inspect SMRT Paks for damage before every use.
- Practice changing height positions and loading the cot until operation of the product is fully understood. Improper use can cause injury.
- Do not allow untrained assistants to assist in the operation of the cot. Untrained technicians/assistants can cause injury to the patient or themselves.
- Do not ride on the base of the cot. Damage to the product could occur, resulting in injury to the patient or operator.
- Transporting the cot sideways can cause the cot to 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.

Return To Table of Contents

⚠ WARNING (CONTINUED)

- 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.
- Power-LOAD is designed to be compatible with the 6085/6086 Performance-PRO XT, 6500/6516 **Power-PRO™** XT, and 6510/6516 **Power-PRO™** IT cots with the Power-LOAD option only. In certain situations, you can use Power-LOAD as a standard antler for most X-frame cots, but a rail clamp assembly is required for all cots without the Power-LOAD option.
- It is the responsibility of the cot operator to ensure that the cot being used in the Stryker Model 6390 **Power-LOAD™** system is a Power-LOAD compatible cot. Injury may result if a non-compatible cot is used in the Stryker Model 6390 Power-LOAD system.
- Whenever the weight of the cot and patient is no longer supported by the wheels, the cot will automatically enter the high speed retract mode if the retract (–) button is pressed.
- After the weight is off of the ground, the 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.
- 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.
- When using a cot fastener, do not load the cot into the vehicle with the head section retracted. Loading the cot with the head section retracted may cause the product to tip or not engage properly in the cot fastener, possibly causing injury to the patient or operator and/or damage to the cot.
- The one person loading and unloading procedures are for use only with an empty cot. Do not use the procedures when loading/unloading a patient. Injury to the patient or operator could result.
- Do not pull or lift on the safety bar when unloading the cot. Damage to the safety bar could result and injury to the patient or operator could occur.
- Do not press the extend (+) button until the safety bar has engaged the safety hook.
- To avoid injury, always verify that the head section is locked into place prior to operating the cot.
- Do not attempt to load the cot into the patient compartment with the head section retracted. Loading the cot with the head section retracted may cause the product to tip or not engage properly in the cot fastener, possibly causing injury to the patient or operator and/or damage to the product.
- Never install or use a wheel lock on a cot with excessively worn wheels. Installing or using a wheel lock on a wheel with less than a 6” diameter could compromise the holding ability of the wheel lock, possibly resulting in injury to the patient or operator and/or damage to the cot or other equipment.
- These adaptors are intended for use only on the model 6516 **Power-PRO™** IT cot. They are not intended for installation on any other Stryker cot or on any cot from another manufacturer. Using these adaptors on any cot other than the model 6516 **Power-PRO™** IT cot may result in damage to the cot and /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 (6516-028-000) is designed to secure only Airborne™ incubators to the model 6516 **Power-PRO™** IT cot. Using this adaptor on any cot other than the model 6516 **Power-PRO™** IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.

Return To Table of Contents

⚠ WARNING (CONTINUED)

- The Drager® Incubator adaptor (6516-029-000) is designed to secure only Drager® incubators to the 6510 **Power-PRO™** IT cot. Using this adaptor on any cot other than the model 6516 **Power-PRO™** IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specifications changes to the Drager® (or Air-Shields® Series) incubators.
- The Airborne™ Stackable adaptor (6516-027-000) adaptor is designed to secure only an Airborne Stackable to the model 6516 **Power-PRO™** IT cot. Using this adaptor on any cot other than the model 6516 or using any unapproved incubators or stackables in this configuration may result in damage to the cot and/or injury to the patient or user.
- The Air Sled, no adaptor option (6516-042-000) is designed to secure incubators without an adaptor to the model 6516 **Power-PRO™** IT cot. Using this configuration on any cot other than the model 6516 **Power-PRO™** IT cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specification or option changes to Air Sled compatible incubators.
- When the optional head end storage flat is being used, ensure that it does not interfere with the operation of the retractable head section, safety bar and safety hook. Injury to the patient or operator could result.
- When cleaning, use any appropriate personal safety equipment (goggles, respirator, etc.) to avoid the risk of inhaling contagion. Use of power washing equipment can aerate contamination collected during the use of the cot.
- SOME CLEANING PRODUCTS ARE CORROSIVE IN NATURE AND MAY CAUSE DAMAGE TO THE PRODUCT IF USED IMPROPERLY. If the products described above are used to clean Stryker EMS equipment, measures must be taken to ensure the cots are wiped with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the cots will leave a corrosive residue on the surface of the cots, possibly causing premature corrosion of critical components.
- Failure to properly clean or dispose of contaminated cot components will increase the risk of bloodborne pathogens and may cause injury to the patient or operator.
- Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result. Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.
- To avoid the risk of injury, do not use bare hands to check for hydraulic leaks.
- Take special precautions regarding electromagnetic compatibility (EMC) when using medical electrical equipment like Power-PRO. Install and place Power-PRO into service according to the EMC information in this manual. Portable and mobile RF communications equipment can affect the function of Power-PRO.
- The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by Stryker as replacement parts for internal components may result in increased emissions or decreased immunity of the Power-PRO cot.
- The Power-LOAD system and the Power-PRO cot should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, observe the Power-PRO cot to verify normal operation in the configuration in which it will be used.
- Power-PRO operates at the following frequencies: 70 - 125 kHz for inductive charging and 13.56 MHz±7 kHz, Amplitude Modulated (OOK), ERP: -79.57 dBm. The Power-PRO cot may be interfered with by other equipment, even if that other equipment complies with CISPR emission requirements.

⚠ CAUTION

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

Return To Table of Contents

⚠ CAUTION (CONTINUED)

- The cot can be set at any cot load height position. Establish the required cot load height before placing the cot into service.
- Set the cot load height to the proper stop height prior to operation.
- Installation of the safety hook should be done by a certified mechanic familiar with ambulance vehicle construction. Consult the vehicle manufacturer before installing the safety hook and be sure that the installation of the safety hook does not damage or interfere with the brake lines, oxygen lines, fuel lines, fuel tank or electrical wiring of the vehicle.
- Only use the battery and charger as specified in the SMRT Power System Operations/Maintenance Manual.
- The cot is not for use with an AC adapter.
- When charging a battery in an ambulance, locate the charger in an enclosed cabinet and out of patient reach during transport.
- Ensure that the battery is fully charged prior to placing into service. An uncharged or depleted battery may cause poor cot performance.
- Before operating the cot, clear any obstacles that may interfere and cause injury to the operator or patient.
- Do not “jog” the cot past the established cot load height of the product when the safety bar engages the vehicle safety hook or damage may occur to the product.
- When unloading the cot from the patient compartment, ensure that the caster wheels are safely set on the ground or damage to the product may occur.
- Remove the battery if the cot is not going to be used for an extended period of time (more than 24 hours).
- Wheel 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 base storage net (if equipped) must not exceed 20 lb (9 kg).
- Be careful when retracting the base to avoid damaging items stored in the base storage net.
- The weight of the equipment in the head end storage flat (if equipped) must not exceed 40 lb (18 kg).
- DO NOT STEAM CLEAN OR ULTRASONICALLY CLEAN THE UNIT.
- Maximum water temperature should not exceed 180˚F/82˚C.
- Maximum water pressure should not exceed 1500 psi/130.5 bar. If a hand held wand is being used to wash the unit, the pressure nozzle must be kept a minimum of 24 inches (61 cm) from the unit.
- Allow cot to air dry.
- Towel dry all casters and interface points.
- Failure to comply with these instructions may invalidate any/all warranties.
- Always remove the battery before washing the cot.
- 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 160).
- 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 environment exposure. Check hoses and lines regularly to avoid damage to the cot. Check and tighten loose connections.
- Do not tip the cot onto its load wheels and actuate the product as this will allow air to enter the hydraulic system.
- Do not lubricate the bearings in the X-frame as it will degrade the performance of the cot and may void its warranty (see page 160).
- 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.

Return To Table of Contents

Summary of Safety Precautions

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.
- The Cot Fastener Installation instructions on page 22 through page 24 are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for installation instructions.
- 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.
- The Vehicle Safety Hook Selection and Installation instructions on page 25 through page 28 are intended for cots that you will NOT use with Power-LOAD. For Model 6516 cots with the Power-LOAD option, see the Power-LOAD Operations/Maintenance Manual for installation instructions. Power-LOAD ships and is installed with its own safety hook, thus no additional hook is needed.
- 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.
- Automatic charging will only occur with SMRT Pak batteries.
- Only use Stryker-approved batteries with Power-PRO.
- If applicable, Power-LOAD automatically charges the Power-PRO **SMRT™** Pak battery when the cot is locked into Power-LOAD in the transport position (no cable or connectors required). The cot battery LED indicator momentarily flashes green to signify that it is charging.
- If the extend (+) button on the control switch remains activated after reaching the set load height, the motor will remain halted until the operator releases the button. After the button is released, press the extend (+) button again to “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 50 lb (23 kg) are on the cot.
- Hydraulic fluid will become more viscous when the cot is used for extended periods in cold temperatures. When using the manual back-up release function to extend the base during unloading in cold weather conditions, hold the release handle for approximately one second after the cot wheels touch the ground to minimize sagging of the litter as the cot is removed from the ambulance.
- 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.
- 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.

Return To Table of Contents

PINCH POINTS

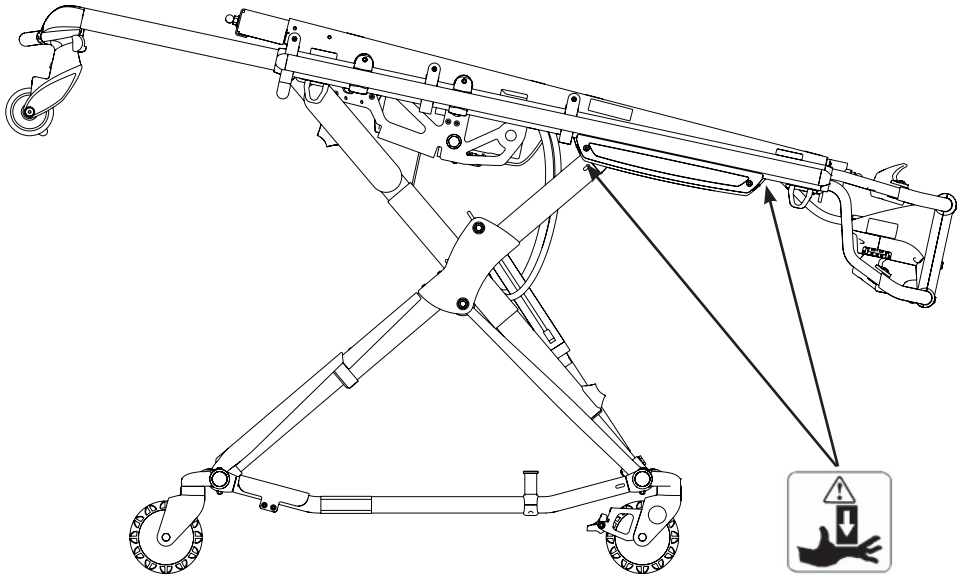


Figure 3: Potential Pinch Points

⚠ 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.

Return To Table of Contents

Setup Procedures

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. See Figure 2 on page 13 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 or Stryker Model 6390 Power-LOAD (not included)
- In-fastener shut-off module installed and positioned properly (if not using Power-LOAD) (see page 24)
- Space to properly install the safety hook

Note: Loose items or 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 160).
- Any emergency vehicle to be used with this cot **must** have the in-fastener shut-off system installed (if not using Power-LOAD) (see page 24).

Note:

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

SETTING COT LOAD HEIGHT AND "JOG" FUNCTION

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

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

To set the cot load height:

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

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

   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 7.
5. Using a T27 Torx driver, 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.

⚠ CAUTION

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

Figure 4: Sensor Housing

Figure 5: Loosening Screws

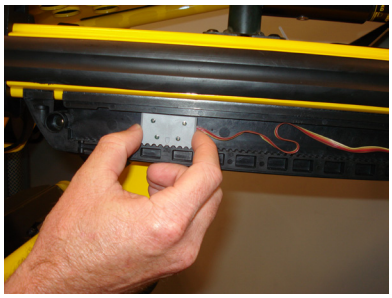


Figure 6: Adjusting Height

Figure 7: Securing Cables

Return To Table of Contents

Cot Fastener Installation

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

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

⚠ WARNING

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

Note: Adjustment of the 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.

Cot Fastener Installation

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

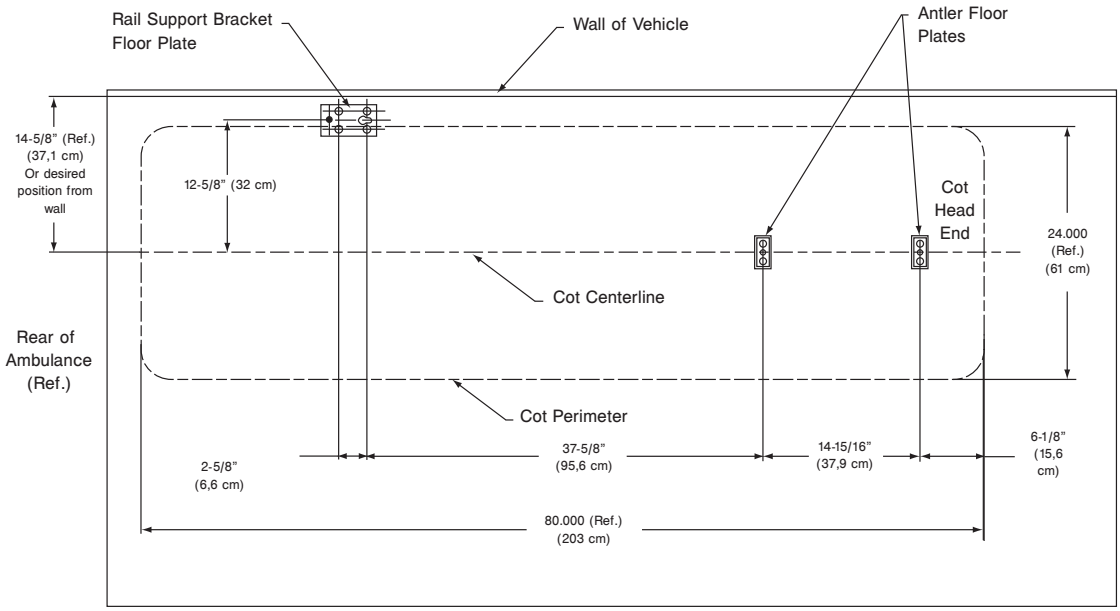


Figure 8: Installation Specifications - Floor Mount Fastener

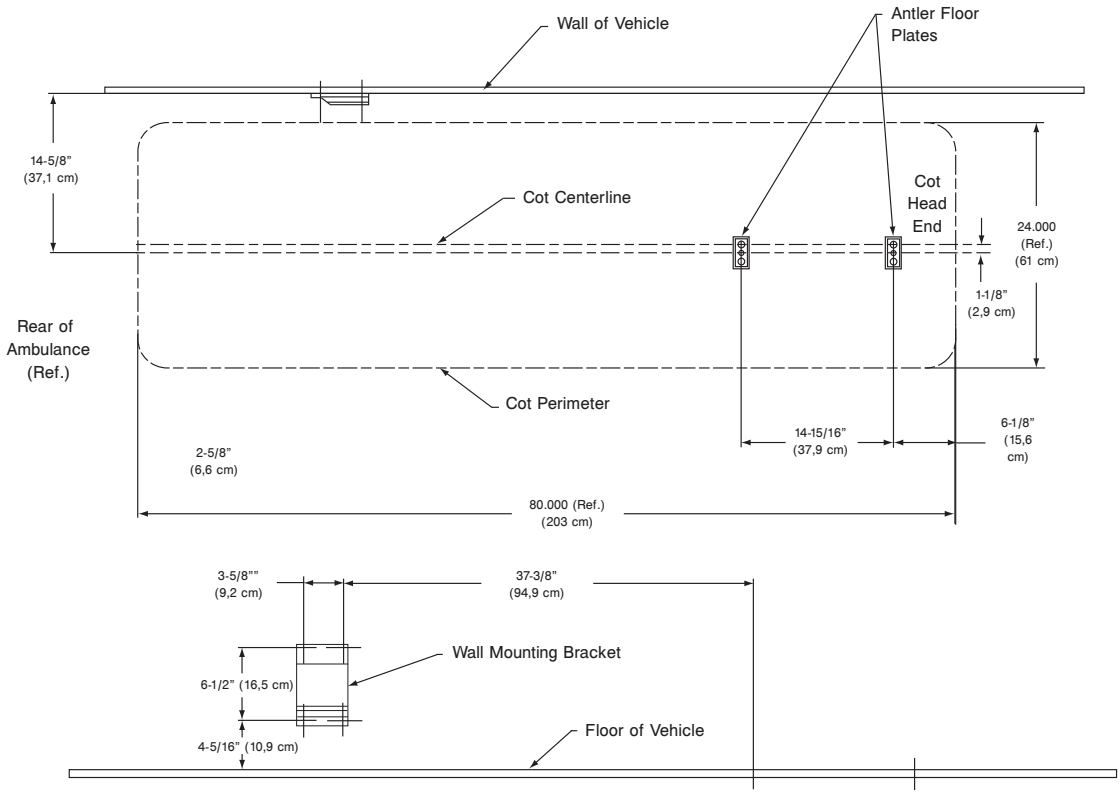


Figure 9: Installation Specifications - Wall Mount Fastener

Return To Table of Contents

INSTALLING THE IN-FASTENER SHUT-OFF

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

⚠ WARNING

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

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

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” (A) on the sensor housing is lined up with the pop rivet head (B) as shown in Figure 10.
7. Using a T27 Torx driver, 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 indictor 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.

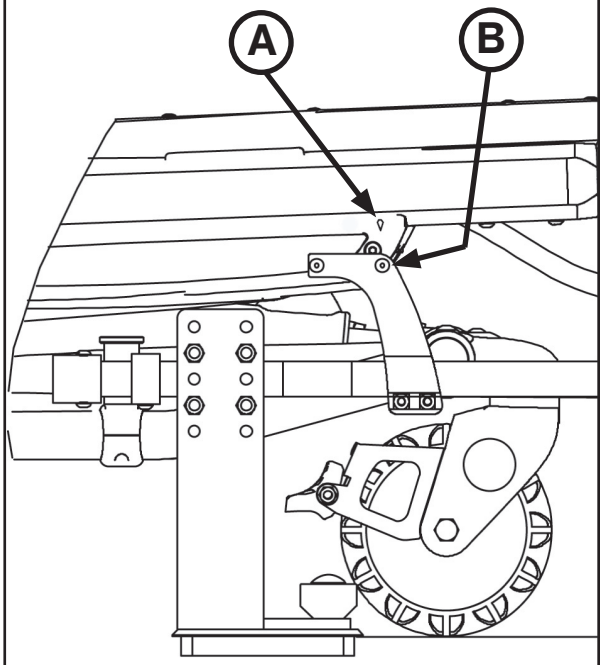


Figure 10: Cot Engaging Cot Fastener

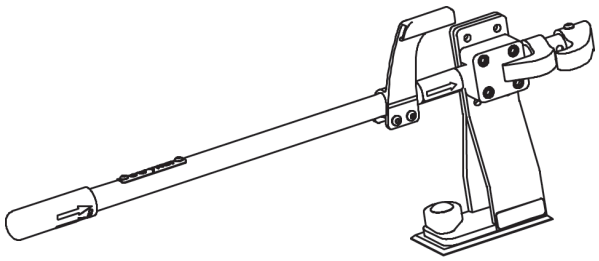


Figure 11: In-Fastener Shut-Off Module

⚠ 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 (if not using Power-LOAD) .

Return To Table of Contents

Vehicle Safety Hook Selection

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

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

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

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

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

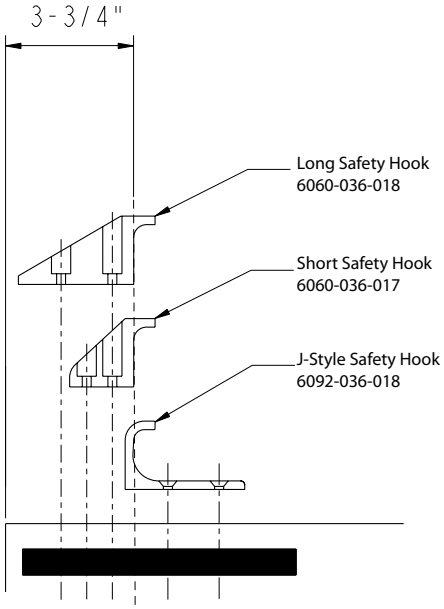


Figure 12: Safety Hook Types

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

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

Return To Table of Contents

Vehicle Safety Hook Installation

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

VEHICLE CONFIGURATION

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

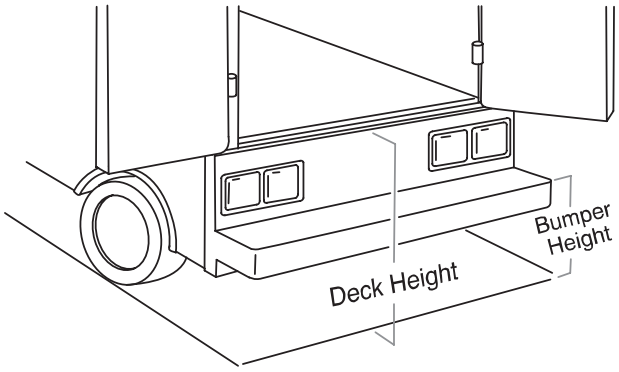


Figure 13: Vehicle Deck Height

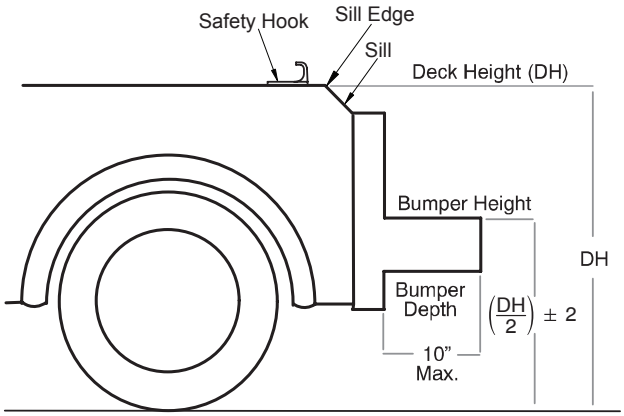


Figure 14: Vehicle Deck Height

⚠ 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, Minimum 1/4”-20 Socket Head Cap Screws* for the short or long safety hook
(2) Grade 5, Minimum 1/4”-20 Flat Socket Head Cap Screws* for the J hook
(2) Flat Washers
(2) Lock Washers
(2) 1/4”-20 Nuts

* The length of the socket head cap screws depends on the thickness of the vehicle floor. Use screws that are long enough to go completely through the patient compartment floor, washer and nut by at least two full threads.

Return To Table of Contents

Vehicle Safety Hook Installation

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

⚠ WARNING

- Have the vehicle safety hook installed by a certified mechanic. Improper safety hook installation can cause injury to the patient or operator and/or damage to the cot.
- 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.

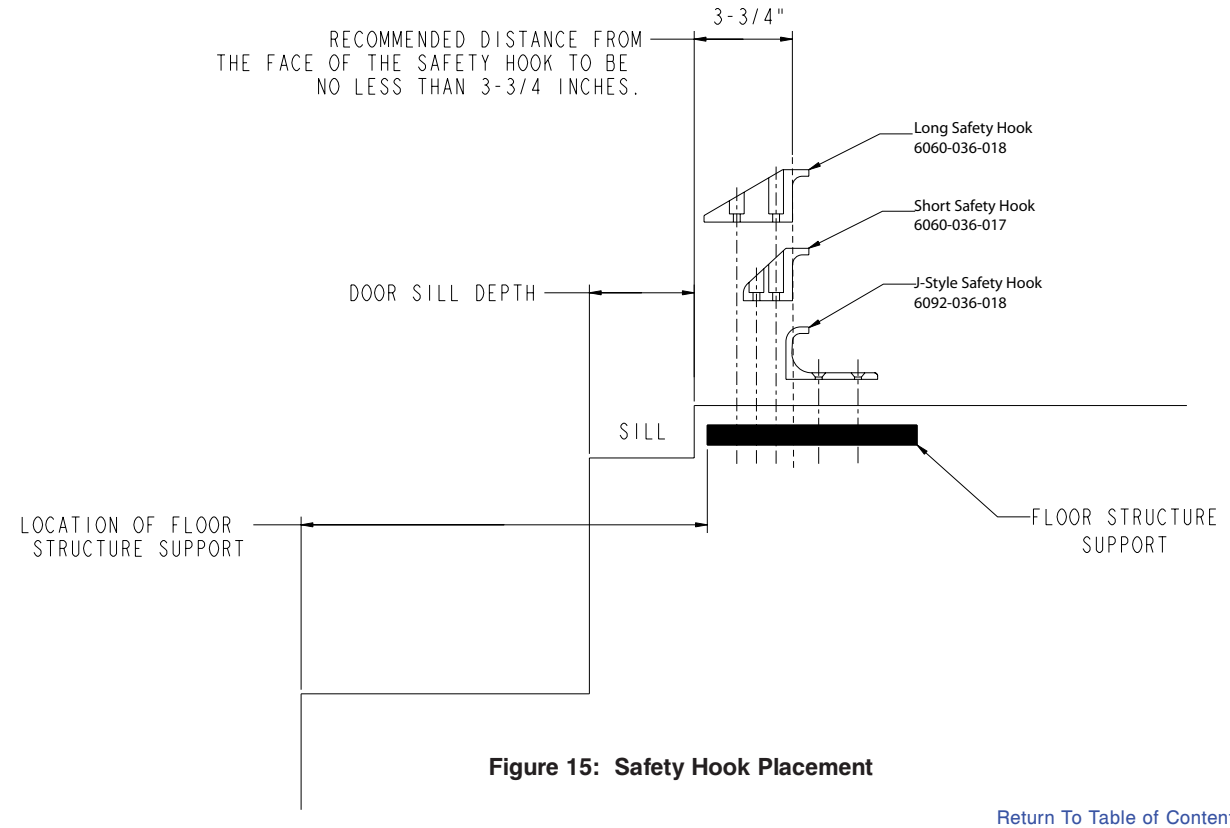


Figure 15: Safety Hook Placement

Return To Table of Contents

Vehicle Safety Hook Installation

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

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 screws.
3. Fasten the safety hook to the patient compartment floor and verify that the safety hook always engages the cot safety bar regardless of how the cot is unloaded from the vehicle.

⚠ WARNING

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

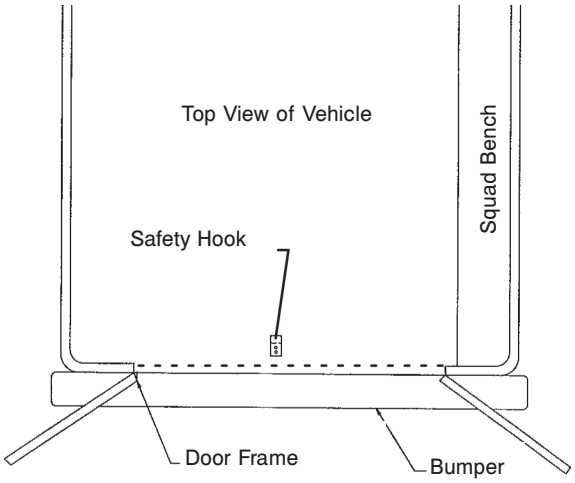


Figure 16: Safety Hook Placement (For Reference Only)

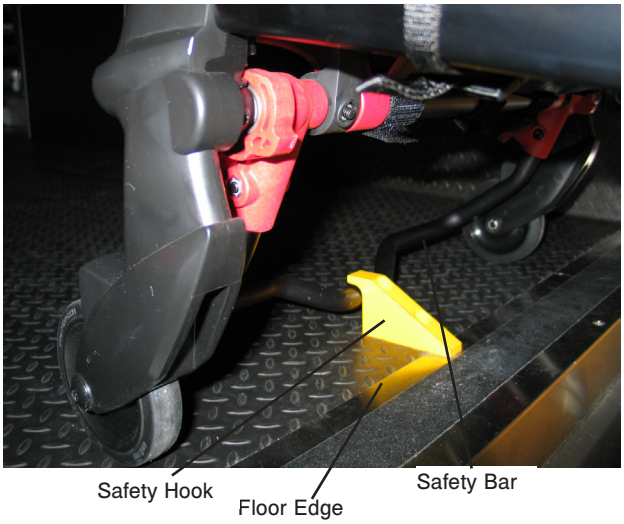


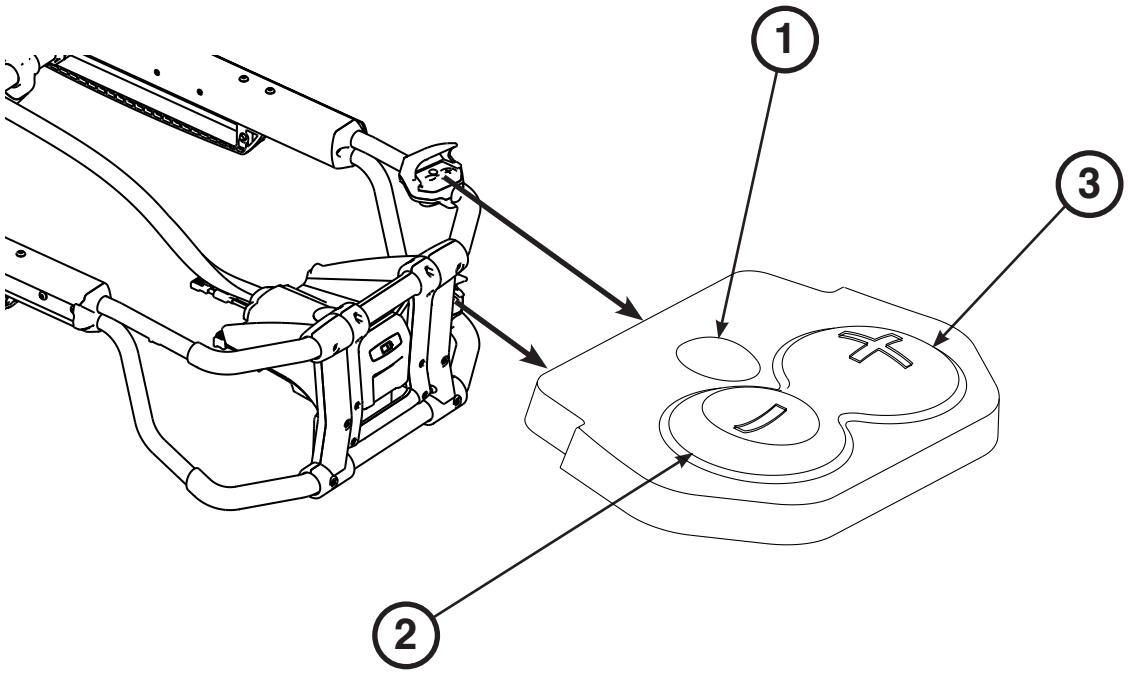
Figure 17: Safety Bar Engaging Safety Hook

Return To Table of Contents

USING THE COT CONTROL SWITCHES

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

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



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

Return To Table of Contents

CHECKING THE COT BATTERY POWER LEVEL

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

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

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

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

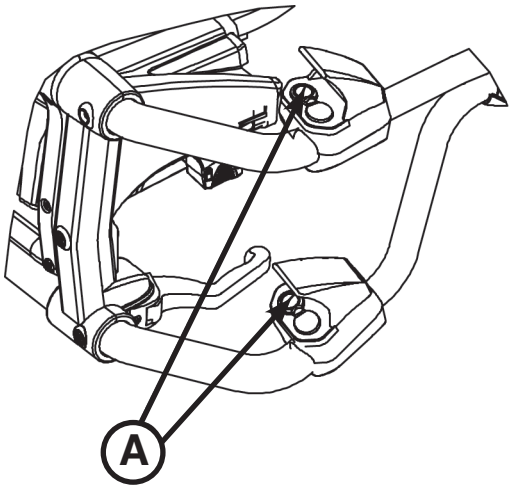


Figure 18: Retract Button - Control Switch

Notes:

- Automatic charging will only occur with SMRT Pak batteries.
- Only use Stryker-approved batteries with Power-PRO.
- If applicable, Power-LOAD automatically charges the Power-PRO **SMRT™** Pak battery when the cot is locked into Power-LOAD in the transport position (no cable or connectors required). The cot battery LED indicator momentarily flashes green to signify that it is charging.

⚠ 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.

⚠ CAUTION

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

Return To Table of Contents

CHECKING THE HOUR METER/LCD ERROR DISPLAY

The hour meter (C), located on the foot end control enclosure, indicates the amount of time (HHH.H hours) that the hydraulics have been activated as shown in Figure 19. You can use the hour meter to determine the frequency for preventative maintenance procedures as listed on page 65.

The error display (C), located on the foot end control enclosure, provides error code information for troubleshooting. See “LCD Error Codes” on page 78.

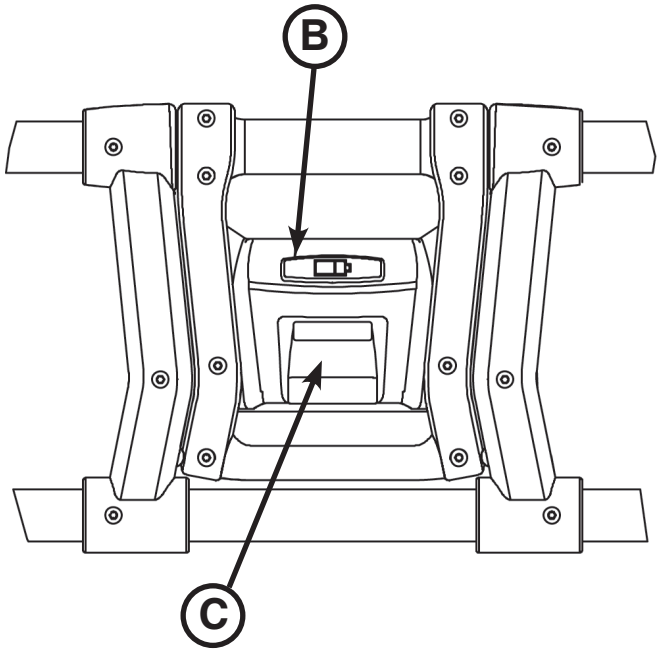


Figure 19: Foot End Control Enclosure

Return To Table of Contents

OPERATING GUIDELINES

- Use the cot only as described in this manual.
- Read all labels and instructions on the cot before using the cot.
- Before first and every use, inspect the SMRT Pak housing and terminal area for cracks and/or damage.
- Loading or unloading an occupied cot into a vehicle requires a minimum of **two (2) trained operators**. One or two operators can lift from the foot end of the cot. Stryker recommends that both operators are at the foot end to reduce the load on each operator. If additional assistance is needed, see “Using Additional Assistance” on page 48.
- Do not adjust, roll or load the cot into a vehicle without advising the patient. Stay with the patient and control the cot at all times.
- The cot can be transported in any position. Stryker recommends that the operators transport the patient in the lowest comfortable position to maneuver the cot.
- Only use the wheel lock(s) during patient transfer or without a patient on the cot.
- Do not leave wheel lock(s) engaged while transporting the cot. Failure to do so may cause wheel damage.
- Use properly trained helpers, when necessary, to control the cot.

⚠ WARNING

- Improper usage of the cot can cause injury to the patient or operator. Operate the cot only as described in this manual.
- Entanglement in powered cot mechanisms can cause serious injury. Operate the cot only when all persons are clear of the mechanisms.
- Inspect SMRT Paks for damage before every use.
- Practice changing height positions and loading the cot until operation of the product is fully understood. Improper use can cause injury.
- Do not allow untrained assistants to assist in the operation of the cot. Untrained technicians/assistants can cause injury to the patient or themselves.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- Do not ride on the base of the cot. Damage to the product could occur, resulting in injury to the patient or operator.
- Transporting the cot sideways can cause the cot to tip, resulting in possible damage to the product and/or injury to the patient or operator. Transporting the cot in a lowered position, head or foot end first, minimizes the potential of a cot tip.
- Grasping the cot improperly can cause injury. Keep hands, fingers and feet away from moving parts. To avoid injury, use extreme caution when placing your hands and feet near the base tubes while raising and lowering the cot.
- Any emergency vehicle to be used with this cot **must** have the in-fastener shut-off system installed (if not using Power-LOAD) (see page 24).

⚠ CAUTION

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

PROPER LIFTING TECHNIQUES

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

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

Return To Table of Contents

ROLLING THE COT

When rolling the cot:

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

⚠ 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.

Return To Table of Contents

ADJUSTING THE HEIGHT OF THE COT

⚠ WARNING

- Grasping the cot improperly can cause injury. Keep hands, fingers and feet away from moving parts. To avoid injury, use extreme caution when placing your hands and feet near the base tubes while raising and lowering the cot.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.

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

To raise or lower an unoccupied cot:

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

To raise or lower the cot with a patient:

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

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

Return To Table of Contents

LOADING OR UNLOADING THE COT

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

LOADING OR UNLOADING THE COT WITH THE POWER-LOAD OPTION

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

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

⚠ WARNING

- Power-LOAD is designed to be compatible with the 6085/6086 Performance-PRO XT, 6500/6516 Power-PRO XT, and 6510/6516 **Power-PRO™** IT cots with the Power-LOAD option only. In certain situations, you can use Power-LOAD as a standard antler for most X-frame cots, but a rail clamp assembly is required for all cots without the Power-LOAD option.
- It is the responsibility of the cot operator to ensure that the cot being used in the Stryker Model 6390 Power-LOAD system is a Power-LOAD compatible cot. Injury may result if a non-compatible cot is used in the Stryker Model 6390 Power-LOAD system.

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 no longer supported by the wheels. Press the retract (–) button to actuate the control switch.

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

⚠ WARNING

- Whenever the weight of the cot and patient is no longer supported by the wheels, the cot will **automatically** enter the high speed retract mode if the retract (–) button is pressed.
- After the weight is off of the ground, the 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.

Return To Table of Contents

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

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

⚠ WARNING

- Two operators must be present when the cot is occupied.
- Operators must be able to lift the total weight of the patient, cot and any items on the cot.
- The higher an operator must lift the cot, the more difficult it becomes to hold the weight. An operator may need help loading the cot if he/she is too short or if the patient is too heavy to lift safely. The operator must be able to lift the cot high enough for the cot legs to unfold completely and lock when the cot is unloaded. A shorter operator needs to raise their arms higher to enable the undercarriage to unfold.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- There must be a safety hook properly installed in the vehicle so that the bumper does not interfere with the front legs of the base frame.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 26.

To load the cot into a vehicle with two operators:

1. Ensure that the retractable head section is fully extended and locked.
2. Place the cot in a loading position (any position where the load wheels meet the vehicle floor height).
3. Lift the vehicle bumper to the raised position (if equipped).
4. Roll the cot to the open door of the patient compartment.
5. Push the cot forward until the load wheels are on the compartment floor and the safety bar passes the safety hook as shown in Figure 20.
6. For maximum clearance to lift the base, pull the cot back until the safety bar engages the safety hook.
7. **Operator 2** – Verify that the safety bar engages the safety hook.

Figure 20: Safety Bar Engaging Safety Hook

Return To Table of Contents

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

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

   With both operators at the foot end (preferred method):
   - **Both Operators** – Grasp the cot frame at the foot end.
   - **Operator 1** – Press the retract (–) button until the undercarriage of the cot retracts fully.

   With one operator at the foot end and one on the side:
   - **Operator 1** – Grasp the cot frame at the foot end and press the retract (–) button until the undercarriage of the cot retracts fully.
   - **Operator 2** – Securely grasp the cot outer rail to stabilize the cot during retraction.

9. **Both Operators** – Push the cot into the patient compartment until the cot engages the cot fastener (not included).

⚠ WARNING

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

Return To Table of Contents

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 21).
7. Push the cot into the patient compartment until the cot engages the cot fastener (not included).

Figure 21: Press the Retract Button

⚠ WARNING

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

Return To Table of Contents

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

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

⚠ WARNING

- Two operators must be present when the cot is occupied.
- Operators must be able to lift the total weight of the patient, cot and any items on the cot.
- The higher an operator must lift the cot, the more difficult it becomes to hold the weight. An operator may need help loading the cot if he/she is too short or if the patient is too heavy to lift safely. The operator must be able to lift the cot high enough for the cot legs to unfold completely and lock when the cot is unloaded. A shorter operator needs to raise their arms higher to enable the undercarriage to unfold.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- There must be a safety hook properly installed in the vehicle so that the bumper does not interfere with the front legs of the base frame.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 26.
- To 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.
- 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. Unload the cot either from the foot end or with one operator at the foot end and one on the side:

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

- **Both Operators** – Grasp the cot frame at the foot end. Pull the cot out of the patient compartment until the safety bar engages the safety hook.
- **Both Operators** – Verify that the safety bar engages the safety hook.
- **Operator 1** – Depress the extend (+) button to lower the undercarriage to its fully extended position.

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

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

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

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

Return To Table of Contents

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

4. **Operator 2** – Pull the safety bar release lever forward to disengage the safety bar from the safety hook in the patient compartment as shown in Figure 22.
5. 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.
- Do not “jog” the cot past the established cot load height of the product when the safety bar engages the vehicle safety hook or damage may occur to the product.

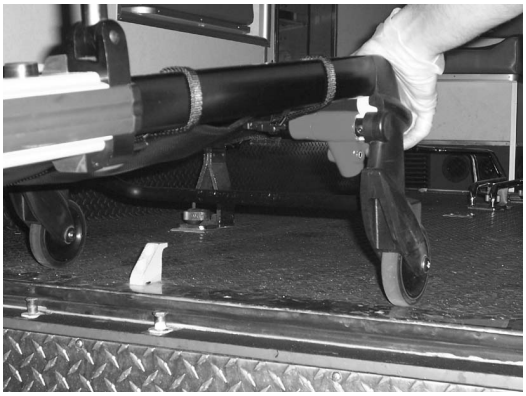


Figure 22: Disengaging the Safety Bar

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

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

⚠ 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 23.
6. Disengage the safety bar from the safety hook by pulling the safety bar release lever forward and roll the cot out of the vehicle.
7. Remove the load wheels from the patient compartment of the vehicle.

Figure 23: Press the Extend Button

⚠ CAUTION

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

Return To Table of Contents

USING THE MANUAL OVERRIDE

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

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

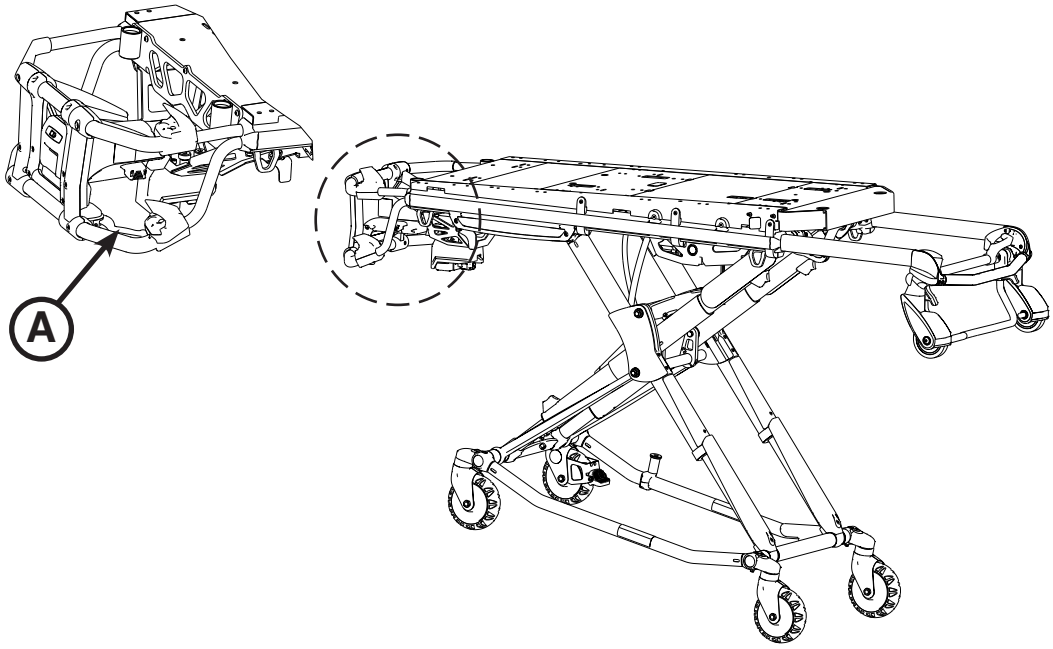


Figure 24: Manual Back-Up Release Handle

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

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.

Notes:

- 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 50 lb (23 kg) are on the cot.
- Hydraulic fluid will become more viscous when the cot is used for extended periods in cold temperatures. When using the manual back-up release function to extend the base during unloading in cold weather conditions, hold the release handle for approximately one second after the cot wheels touch the ground to minimize sagging of the litter as the cot is removed from the ambulance.

Return To Table of Contents

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

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

⚠ WARNING

- Two operators must be present when the cot is occupied.
- Operators must be able to lift the total weight of the patient, cot and any items on the cot.
- The higher an operator must lift the cot, the more difficult it becomes to hold the weight. An operator may need help loading the cot if he/she is too short or if the patient is too heavy to lift safely. The operator must be able to lift the cot high enough for the cot legs to unfold completely and lock when the cot is unloaded. A shorter operator needs to raise their arms higher to enable the undercarriage to unfold.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- There must be a safety hook properly installed in the vehicle so that the bumper does not interfere with the front legs of the base frame.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 26.

To load the cot into a vehicle with two operators 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.

Return To Table of Contents

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

6. **Operator 2** – Verify that the safety 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 as shown in Figure 25.
8. **Operator 2** – Stabilize the cot by placing your hand on the outer rail. Grasp the base frame. After the foot end operator has lifted the cot and squeezed the release handle, raise the undercarriage until it stops in the highest position and hold it there.
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.

Figure 25: Manual Back-up Release Handle

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

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

⚠ WARNING

- Two operators must be present when the cot is occupied.
- Operators must be able to lift the total weight of the patient, cot and any items on the cot.
- The higher an operator must lift the cot, the more difficult it becomes to hold the weight. An operator may need help loading the cot if he/she is too short or if the patient is too heavy to lift safely. The operator must be able to lift the cot high enough for the cot legs to unfold completely and lock when the cot is unloaded. A shorter operator needs to raise their arms higher to enable the undercarriage to unfold.
- Ensure proper hand placement on hand grips. Hands should be clear of red safety bar pivots while loading and unloading the cot or whenever changing height position of the cot with two or more operators.
- There must be a safety hook properly installed in the vehicle so that the bumper does not interfere with the front legs of the base frame.
- Failure to install the safety hook can cause injury to the patient or operator. Install and use the safety hook as described on page 26.
- To 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.
- 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. Unload the cot either from the foot end or with one operator at the foot end and one on the side:

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

- **Both Operators** – Grasp the cot frame at the foot end.
- **Operator 1** – Pull the manual back-up release handle to lower the undercarriage to its fully extended position. Pull the cot out of the patient compartment until the safety bar engages the safety hook.
- **Operator 2** – Verify that the safety bar engages the safety hook.

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

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

Return To Table of Contents

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

4. **Operator 2** – Pull the safety bar release lever forward to disengage the safety bar from the safety hook in the patient compartment (Figure 26).
5. 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.

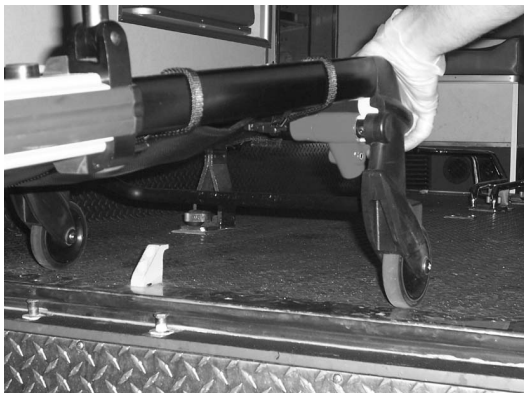


Figure 26: Disengaging the Safety Bar

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

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

⚠ 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:

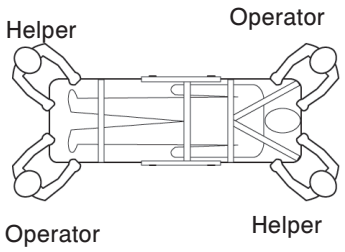
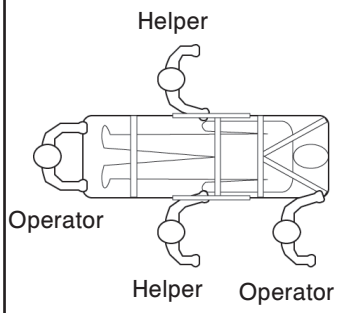
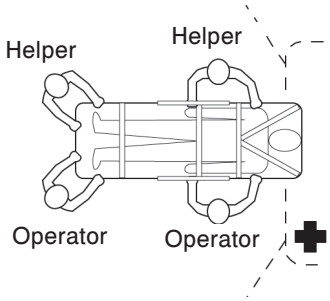
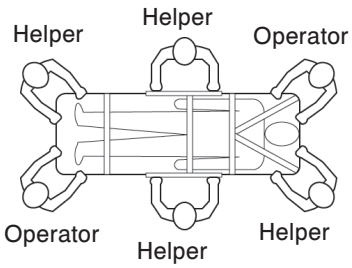
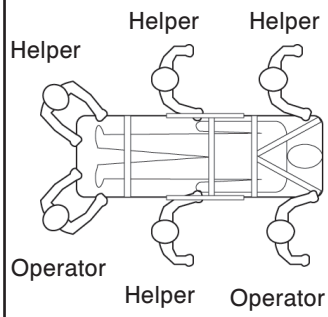
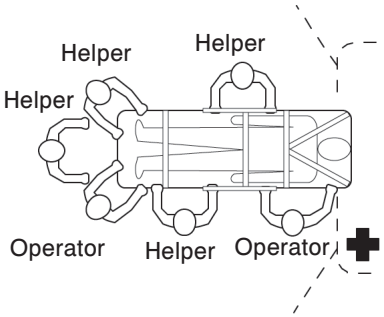
1. Lift the vehicle bumper to the raised position (if equipped).
2. Disengage the cot from the cot fastener. (For more information about the cot fastener, see page 23).
3. Grasp the cot frame at the foot end.
4. Pull the cot from the vehicle until the safety bar engages the safety hook.
5. Pull the manual 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.

Return To Table of Contents

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.

Return To Table of Contents

REMOVING AND REPLACING A SMRT PAK

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

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

⚠ 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 27.
2. Slide the released SMRT Pak out of the enclosure.

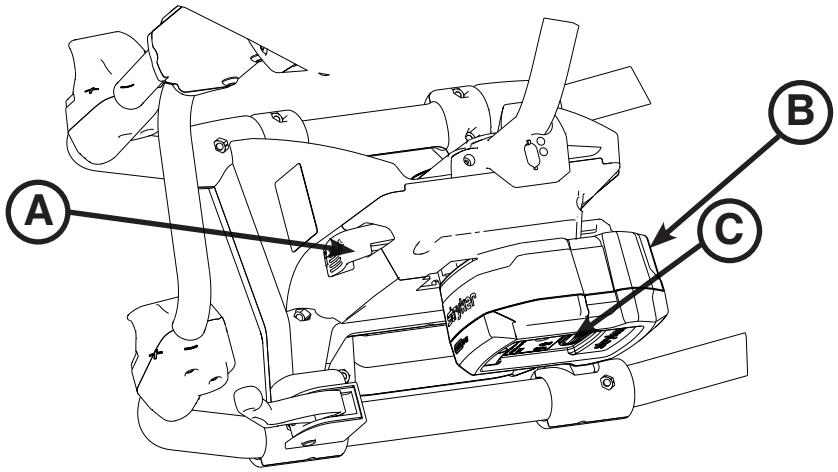


Figure 27: SMRT Pak Removal and Replacement

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 charged and ready.
   - The cot power indicator LED flashes amber if the SMRT Pak needs to be recharged or replaced.

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

⚠ CAUTION

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

Return To Table of Contents

OPERATING THE RETRACTABLE HEAD SECTION

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

To extend the head section:

1. Grasp the outer rail with one hand for support and pull the handle (A), rotating the handle toward the head end of the cot to release the head section from the locked position.
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 handle (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 handle (A), rotate the handle 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 handle (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.
- Do not attempt to load the cot into the patient compartment with the head section retracted. Loading the cot with the head section retracted may cause the product to tip or not engage properly in the cot fastener, possibly causing injury to the patient or operator and/or damage to the product.

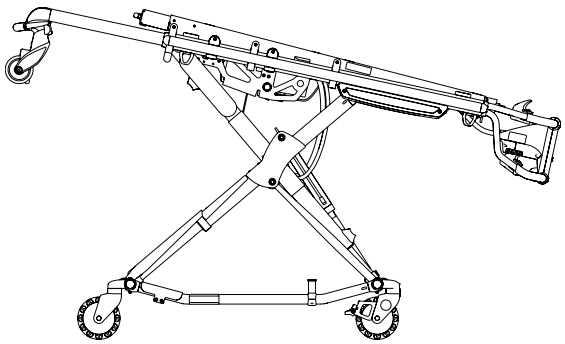


Figure 28: Head Section Extended

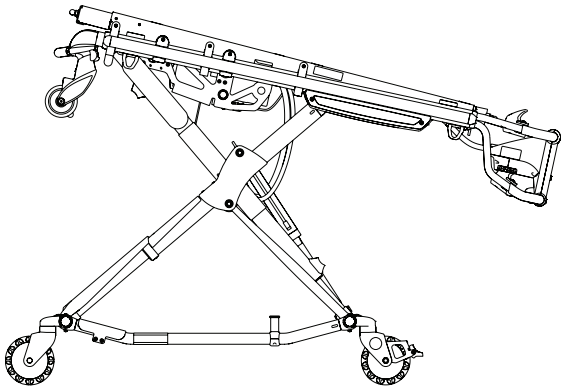


Figure 29: Head Section Retracted

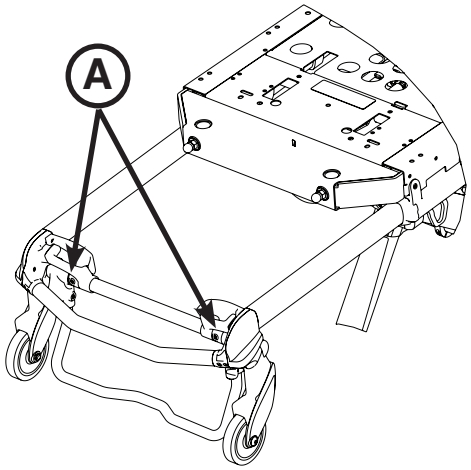


Figure 30: Head Section Release Handles

Return To Table of Contents

OPERATING THE OPTIONAL WHEEL LOCK(S)

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

To release the optional wheel 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.

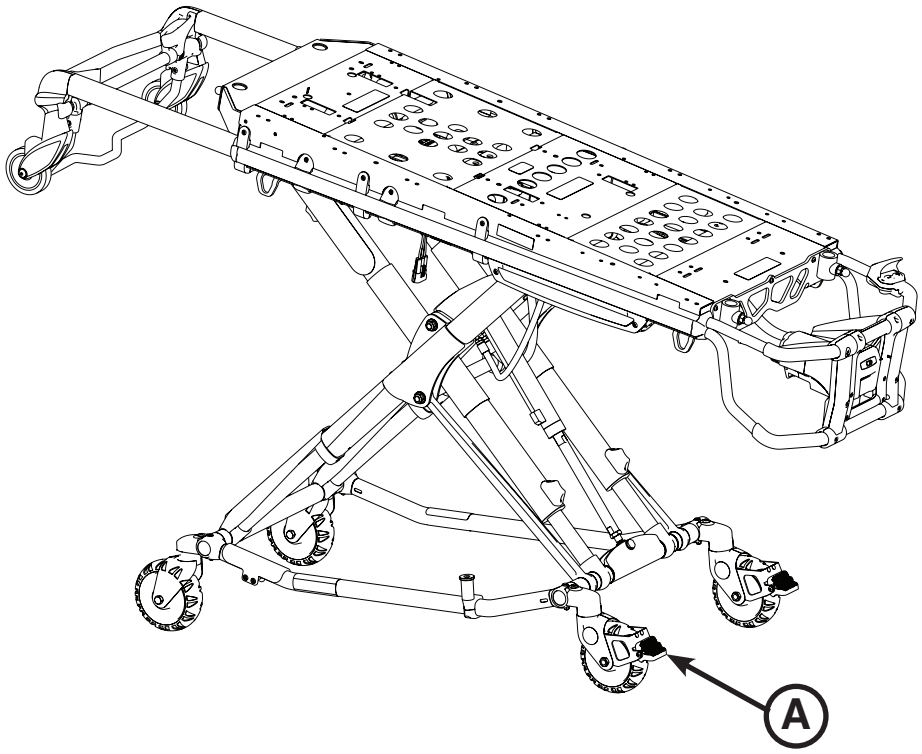


Figure 31: Wheel Lock

⚠ 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.

⚠ 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.

Return To Table of Contents

OPERATING THE OPTIONAL STEER-LOCK

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

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

Figure 32

Figure 33

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

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

Figure 34

Figure 35

Return To Table of Contents

INSTALLING AND REMOVING THE INCUBATOR ADAPTOR

Notes:

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

⚠ WARNING

These adaptors are intended for use only on the model 6516 **Power-PRO™ IT** cot. They are not intended for installation on any other Stryker cot or on any cot from another manufacturer. Using these adaptors on any cot other than the model 6516 **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	page 139	• 5/32” Allen Wrench • 3/16” Allen Wrench • 1/2” Socket & Ratchet
Drager®	page 145	• 5/32” Allen Wrench • 3/16” Allen Wrench
Airborne™ Stackable	page 148	• 1/2” Socket & Ratchet
Air Sled (No Adaptor Option)	page 150	• 1/2” Socket & Ratchet

Table 1.0

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

Table 2.0

⚠ 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.

Return To Table of Contents

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

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

⚠ WARNING

The Airborne™ Side-by-Side Incubator adaptor (6516-028-000) is designed to secure only Airborne™ incubators to the model 6516 **Power-PRO™ IT** cot. Using this adaptor on any cot other than the model 6516 **Power-PRO™ IT** cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.

To install the incubator:

1. Push down on latch tab (A) to release latch tab (B) as shown in Figure 36.
2. Pull down on latch tab (B) and open each of the latches on the four corners of the incubator.
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.

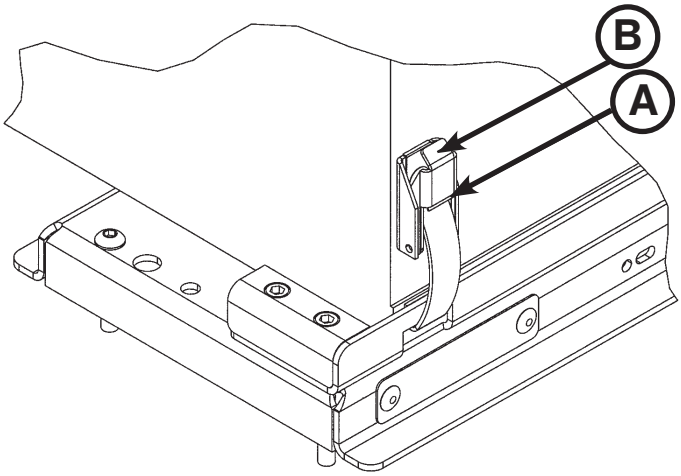


Figure 36: Airborne™ Side-by-Side Incubator

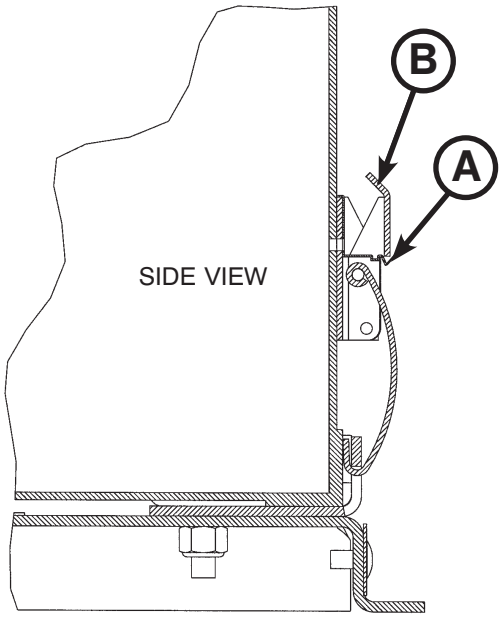


Figure 37: Latch Tabs - Side View

⚠ WARNING

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

Return To Table of Contents

INSTALLING THE DRAGER® INCUBATOR

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

⚠ WARNING

- The Drager® Incubator adaptor (6516-029-000) is designed to secure only Drager® incubators to the 6510 **Power-PRO™ IT** cot. Using this adaptor on any cot other than the model 6516 **Power-PRO™ IT** cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specifications changes to the Drager® (or Air-Shields® Series) incubators.

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 38.
2. Place the incubator on the adaptor. Align the holes in the incubator with the four pins (C) on the adaptor (only two of the four 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.).

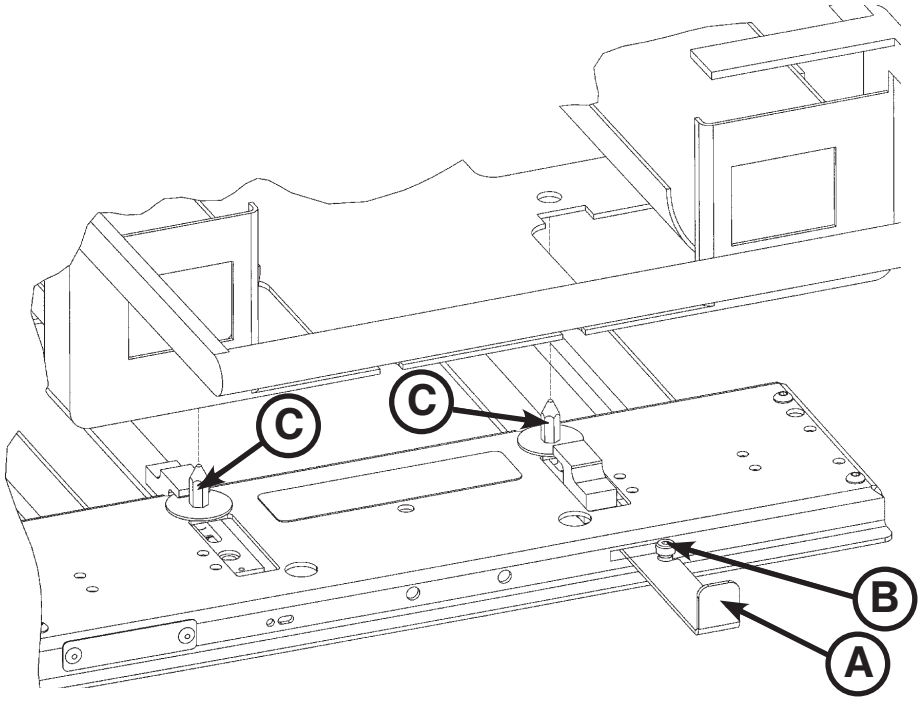


Figure 38: Drager® Incubator

Return To Table of Contents

INSTALLING THE DRAGER® INCUBATOR (CONTINUED)

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

⚠ 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.

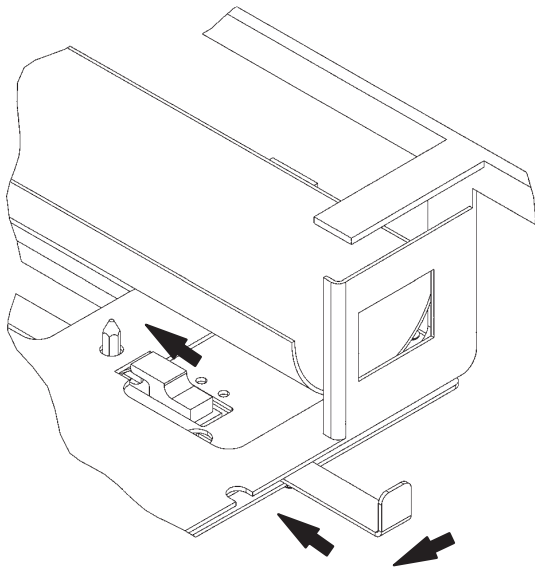


Figure 39: Unlocked Position

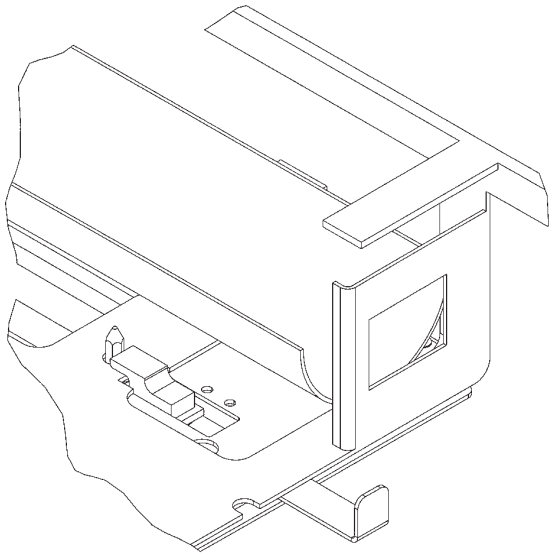


Figure 40: Locked Position

INSTALLING THE AIRBORNE™ STACKABLE

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

⚠ WARNING

The Airborne™ Stackable adaptor (6516-027-000) adaptor is designed to secure only an Airborne Stackable to the model 6516 **Power-PRO™ IT** cot. Using this adaptor on any cot other than the model 6516 or using any unapproved incubators or stackables in this configuration may result in damage to the cot and/or injury to the patient or user.

To install the adaptor:

1. Using the 1/2” socket and ratchet, remove the four 5/16” hex nuts and washers (A) from the mounting studs (B) on the adaptor as shown in Figure 41.
2. Locate the mounting holes in the bottom of the oxygen bottle module (C).
3. Install the oxygen bottle holder on the adaptor mounting 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.

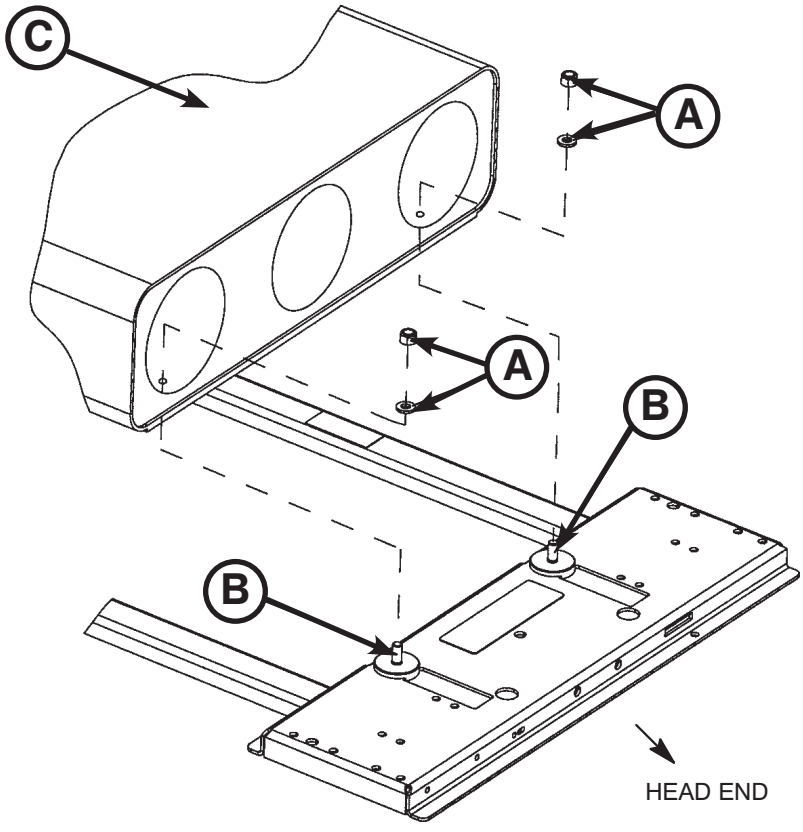


Figure 41: Airborne™ Stackable

⚠ 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.

Return To Table of Contents

INSTALLING THE AIR SLED WITH A SLED RECEPTACLE

Prior to installing the Air Sled on the model 6516 **Power-PRO™ IT** cot, read and understand this manual and the manual supplied with the incubator. These instructions explain how to install the Air Sled with the manufacturer's supplied sled receptacle (not included).

⚠ WARNING

- The Air Sled, no adaptor option (6516-042-000) is designed to secure incubators without an adaptor to the model 6516 **Power-PRO™ IT** cot. Using this configuration on any cot other than the model 6516 **Power-PRO™ IT** cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specification or option changes to Air Sled compatible incubators.

To install the incubator:

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

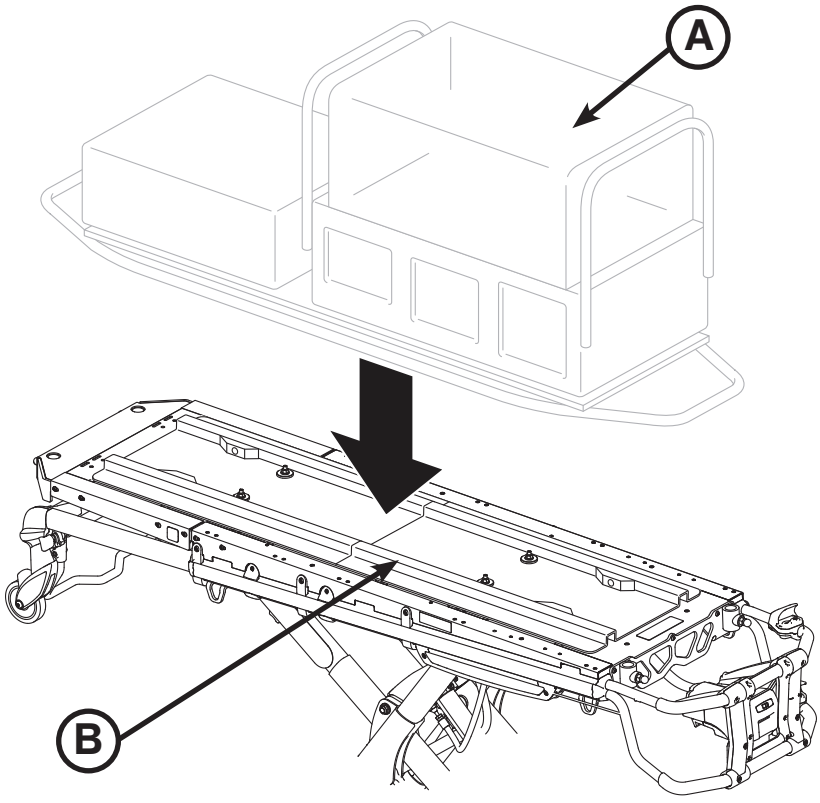


Figure 42: Air Sled Installation

Return To Table of Contents

SECURING THE AIR SLED

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

⚠ WARNING

- The Air Sled, no adaptor option (6516-042-000) is designed to secure incubators without an adaptor to the model 6516 **Power-PRO™ IT** cot. Using this configuration on any cot other than the model 6516 **Power-PRO™ IT** cot or using any unapproved incubators in this configuration may result in damage to the cot and/or injury to the patient or user.
- Stryker is not responsible for specification or option changes to Air Sled compatible incubators.

To secure the air sled to the litter surface:

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

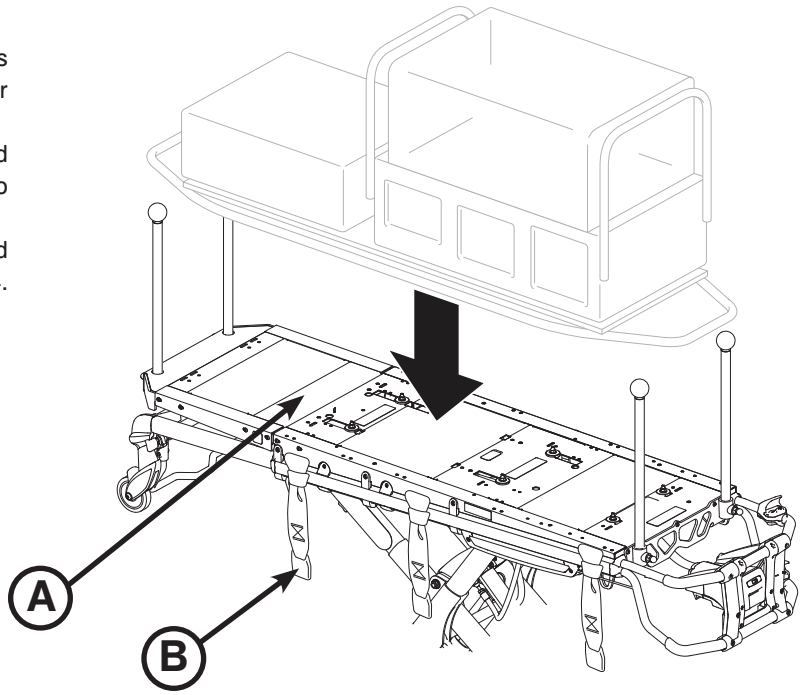


Figure 43

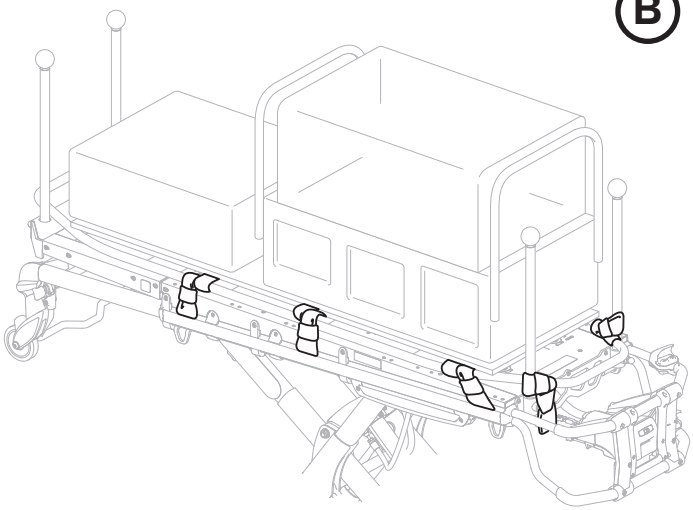


Figure 44

Return To Table of Contents

Optional Accessories

The accessories listed below can be purchased and installed on the Power-PRO™ IT cot.

Accessory	Part Number	Operation Guide Page Number
Base Storage Net	6500-160-000	page 61
Rigid Push Bar, Foot End	6516-040-000	page 61
Rigid Push Bar, Head End	6516-031-000	page 61
Storage Flat, Head End	6500-128-000	page 62

Return To Table of Contents

INSTALLING THE BASE STORAGE NET

To install the base storage net, wrap the Velcro® straps around the base tubes.

⚠ CAUTION

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

USING THE RIGID PUSH BARS

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

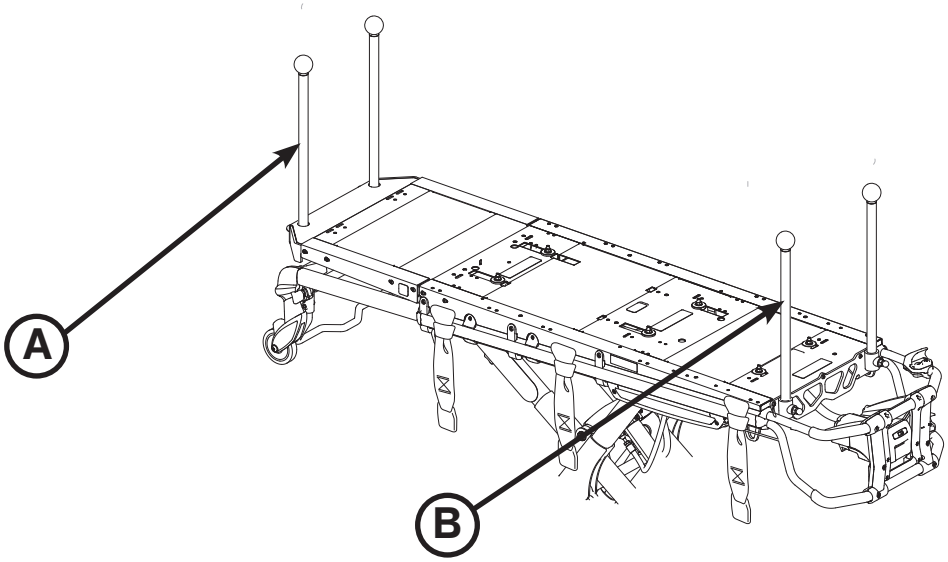


Figure 45

Return To Table of Contents

INSTALLING THE HEAD END STORAGE FLAT

⚠ WARNING

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

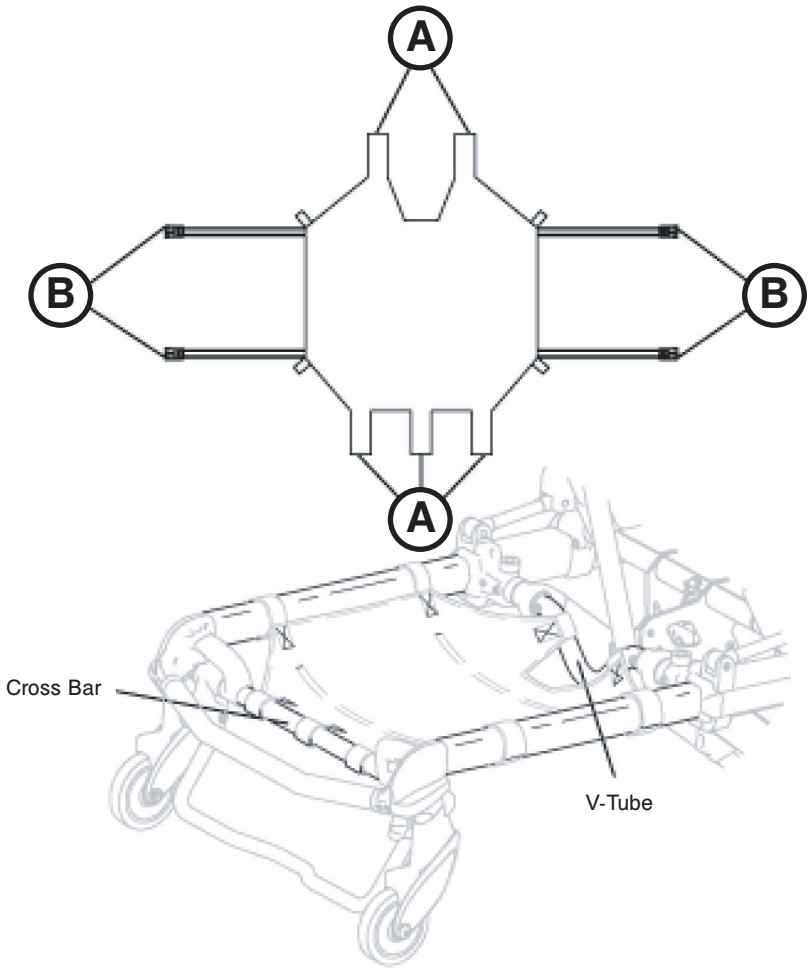


Figure 46: Head End Storage Flat

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

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.

⚠ CAUTION

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

Return To Table of Contents

Cleaning

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

⚠ WARNING

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

⚠ CAUTION

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

Return To Table of Contents

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 ensure the cots are wiped with clean water and thoroughly dried following cleaning. Failure to properly rinse and dry the cots will leave a corrosive residue on the surface of the cots, possibly causing premature corrosion of critical components.

Note: Failure to follow the above directions when using these types of cleaners may void this product's warranty (see page 160).

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

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 69 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 69.

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 160).
- 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 160).
- 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 environment exposure. Check hoses and lines regularly to avoid damage to the cot. Check and tighten loose connections.
- Do not tip the cot onto its load wheels and actuate the product as this will allow air to enter the hydraulic system.

LUBRICATION

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

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 160).

Return To Table of Contents

REGULAR INSPECTION AND ADJUSTMENTS

Maintenance Intervals

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

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			X	
	Verify the hydraulic velocity fuse - Place a weight of approximately 50 lb on the cot, raise the cot, lift the cot with two operators, pull the manual back-up release handle, rapidly set the cot down, verify that the cot does not drop			X	
Electronic Controls	Extend cot to raised position, measure and check load height			X	
	Verify “jog” function is operating			X	
	Verify high speed retract is working			X	
Switches	Verify there is no damage or wear to either switch			X	
	Verify both switches operate correctly			X	
Cables/Wires	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		X		

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 lb 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	
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		
	Verify that the cot retaining post is secure. If not secure, then the screw must be replaced. See “Cot Retaining Post Screw Replacement” on page 88.			X	
	Verify no excessive damage to X-frame guards			X	
Wheels	Verify wheels are free of debris			X	
	Verify all wheels secure, rolling and swiveling properly	X			
	Check and adjust optional wheel lock(s) as necessary				X
X-Frame	Verify smooth operation of X-frame		X		

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
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. Pull toward the head section to ensure that it swings and rotates freely and pulls back to home position.	X			
Battery	Inspect the SMRT Pak housing and terminal area for cracks or damage	X			
Accessories	Verify all optional accessories operate properly		X		

Return To Table of Contents

Maintenance Record

Date	Maintenance Operation Performed	By	Hours

Return To Table of Contents

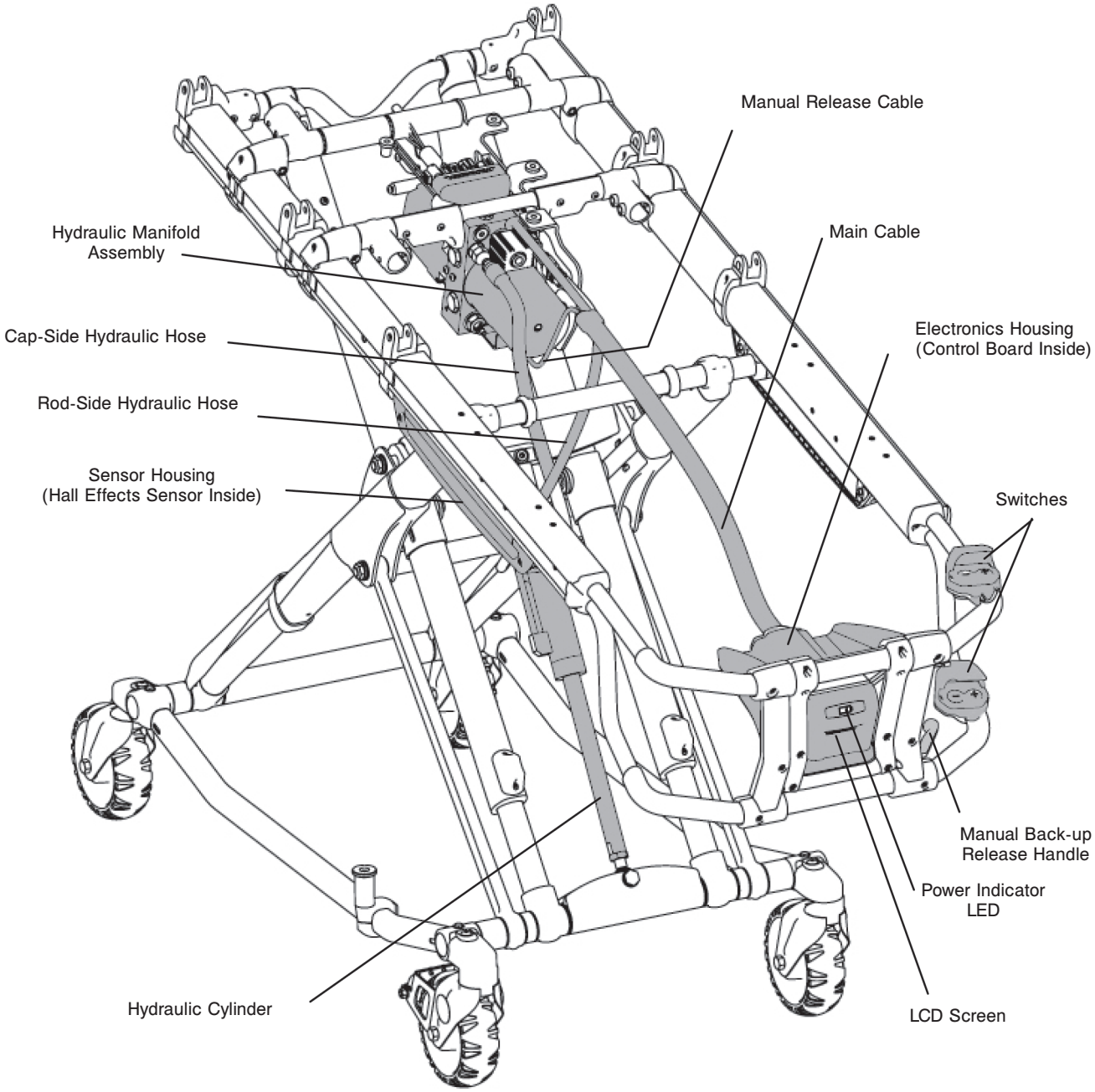
Training Record

	Training Date		Training Method
Trainee Name	Basic Training	Refresher Update	Owner's Manual, In-Service, Formal Class, Etc.

Return To Table of Contents

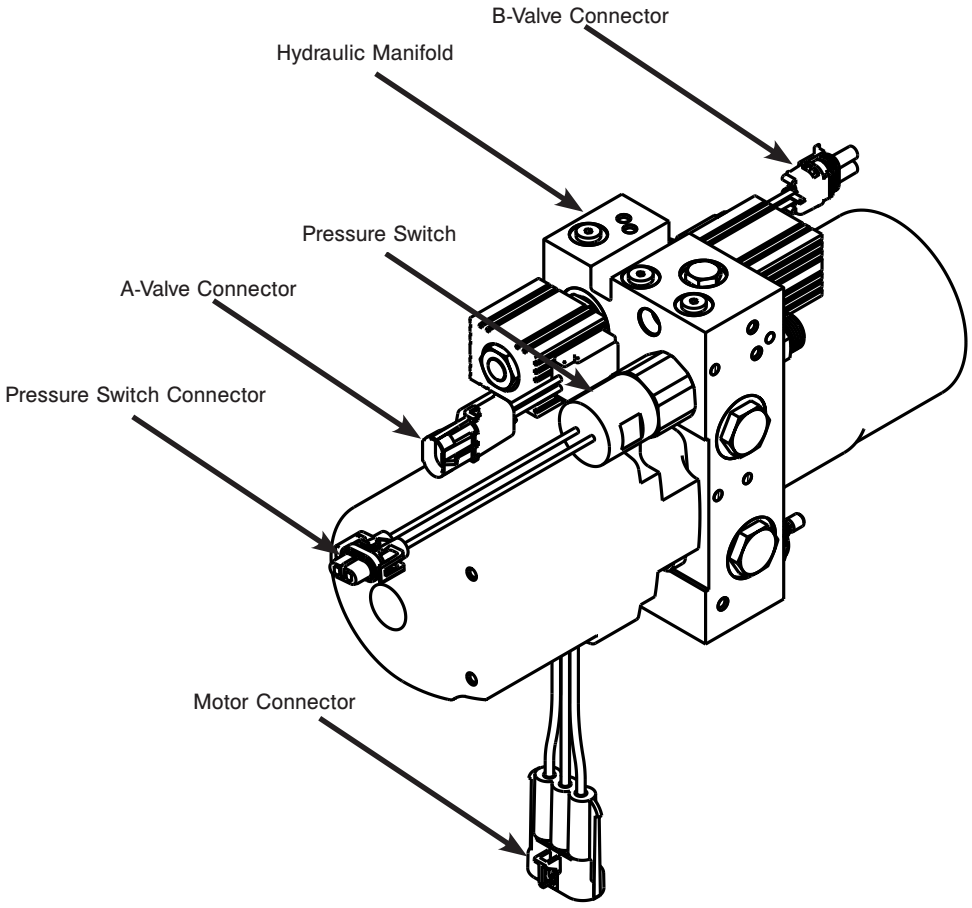
ELECTRONICS AND HYDRAULICS LOCATOR

Note: Some components have been removed for clarity.

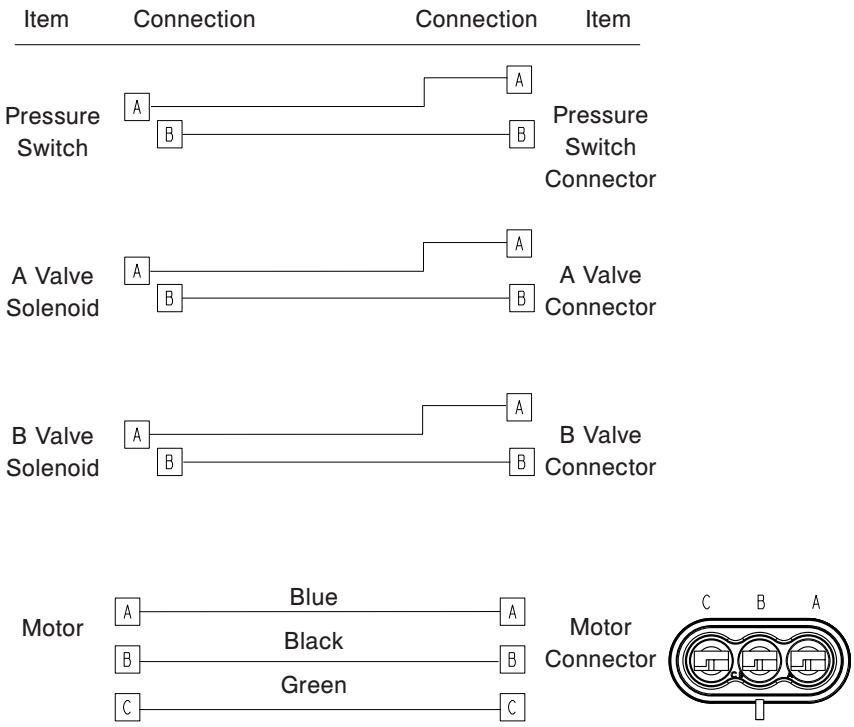


Return To Table of Contents

HYDRAULIC ASSEMBLY



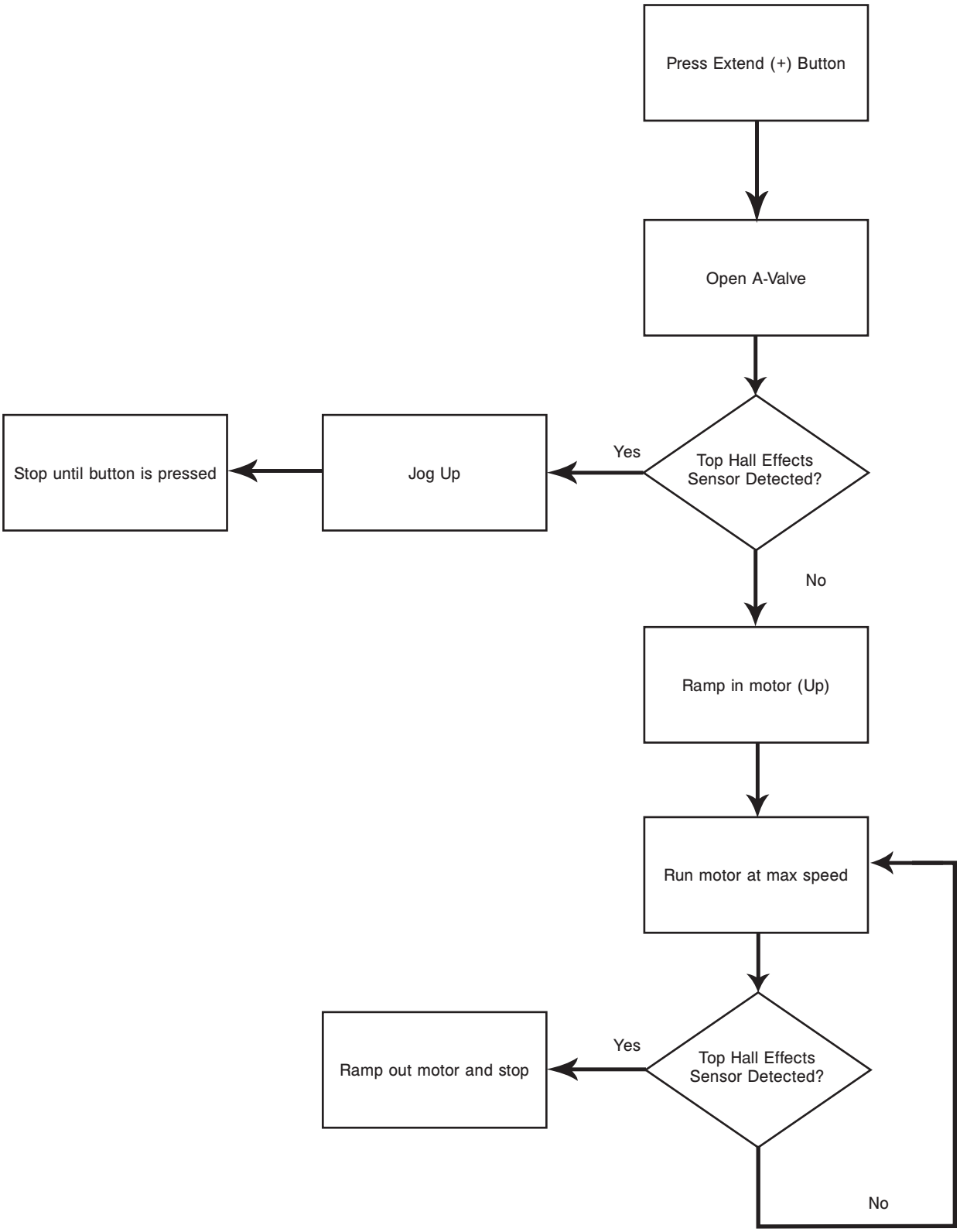
HYDRAULIC ASSEMBLY WIRING SCHEMATICS



Return To Table of Contents

ELECTRICAL SYSTEM BLOCK DIAGRAM

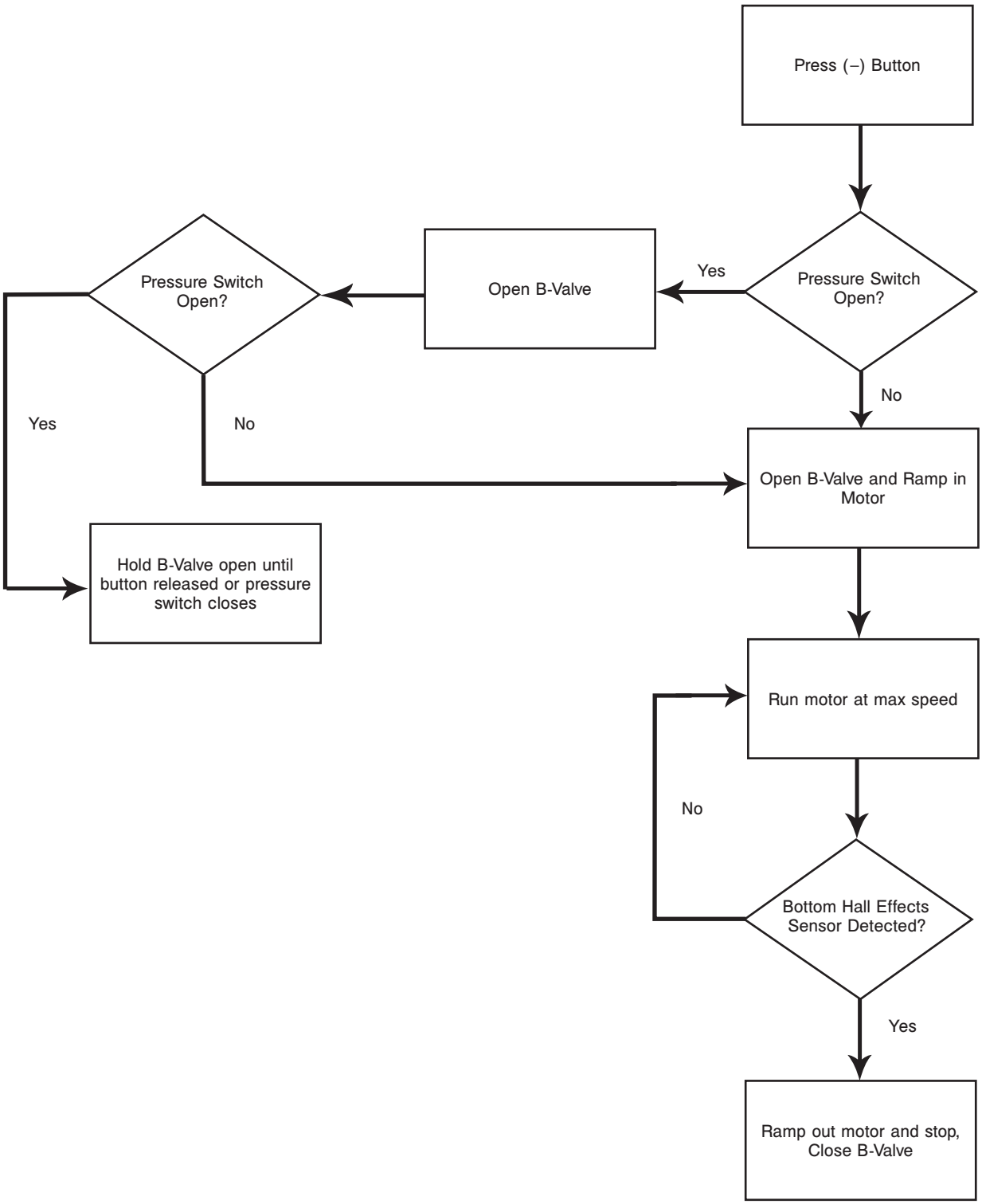
Lift and Extend (Unload) Functions



Return To Table of Contents

Electrical System Block Diagram

Lower and Retract (Load) Functions



Return To Table of Contents

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	PAGES
Litter drifts (without patient weight)	1. Flush the hydraulic system by squeezing the manual release handle while simultaneously pressing the (+) power button for approximately 15 seconds. Repeat if necessary. 2. Check the manual release cable adjustment. 3. Change the 'locking' manual valve. 4. Change the 'B' valve.	
Base drifts (without patient weight)	1. Flush the hydraulic system by squeezing the manual release handle while simultaneously pressing the (+) power button for approximately 15 seconds. Repeat if necessary. 2. Check the manual release cable adjustment. 3. Change the 'non-locking' manual valve. 4. Change the 'A' valve.	
Litter does not lower in the powered mode	1. Check the power indicator LED. a. If blinking constant amber, change the battery. 2. Check for error on LCD. 3. Check for broken or disconnected wires. 4. Check for 24V DC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenoid, and or 'B' valve. If voltage is not present, go to step 5. 5. Check for 24V DC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness. a. If the green light turns on, but does not lower, try the other switch. If the other switch works, replace the bad switch.	page 79 page 80

Return To Table of Contents

TROUBLESHOOTING GUIDE (CONTINUED)

PROBLEM	SOLUTION	PAGES
Litter does not extend in the powered mode	1. Check the power indicator LED. a. If blinking constant amber, change the battery. 2. Check for error on LCD. 3. Check for broken or disconnected wires. 4. Check for 24V DC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenoid, and or 'B' valve. If voltage is not present, go to step 5. 5. Check for 24V DC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness. a. If the green light turns on, but does not lower, try the other switch. If the other switch works, replace the bad switch. 6. Check the motor. a. If the motor runs, but does not raise the cot: i. Check the manual release cable for too much tension. ii. Lightly tap the manual locking valve. iii. Replace the manual locking valve. b. If the motor is stalled, replace the 'A' valve. c. If the light is green, but the motor does not run: i. Check for 24V DC at connector (E) on the main cable. If voltage is present, replace the hall effects sensor. If the hall effects sensor is replaced, and the motor still does not run, replace the hydraulic sub assembly. If voltage is not present, go to step ii. ii. Check for 24V DC 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.	page 79 page 80

Return To Table of Contents

TROUBLESHOOTING GUIDE (CONTINUED)

PROBLEM	SOLUTION	PAGES
Base does not retract in the powered mode	1. Check the power indicator LED. a. If blinking constant amber, change the battery. 2. Check for error on LCD. 3. Check for broken or disconnected wires. 4. Check for 24V DC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenoid, and or 'B' valve. If voltage is not present, go to step 5. 5. Check for 24V DC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness.	page 79 page 80
Base does not extend in the manual mode	1. Check the manual cable adjustment. 2. Change the 'non-locking' manual valve.	
Base does not retract in the manual mode	1. Check the manual release cable adjustment. 2. Change 'locking' manual valve.	
Litter does not retract in the manual mode (with patient weight)	1. Make sure that the weight is off of the casters before lowering the cot. 2. Check the manual cable adjustment. 3. Replace the 'locking' manual valve.	
Litter does not extend in the manual mode	1. Check the manual cable adjustment. 2. Change the 'non-locking' manual valve.	
High speed retract does not engage	1. Check that the weight is off of the casters. 2. Change the pressure switch. 3. Change the hall effect cable.	

Return To Table of Contents

LCD ERROR CODES

MAIN MICRO

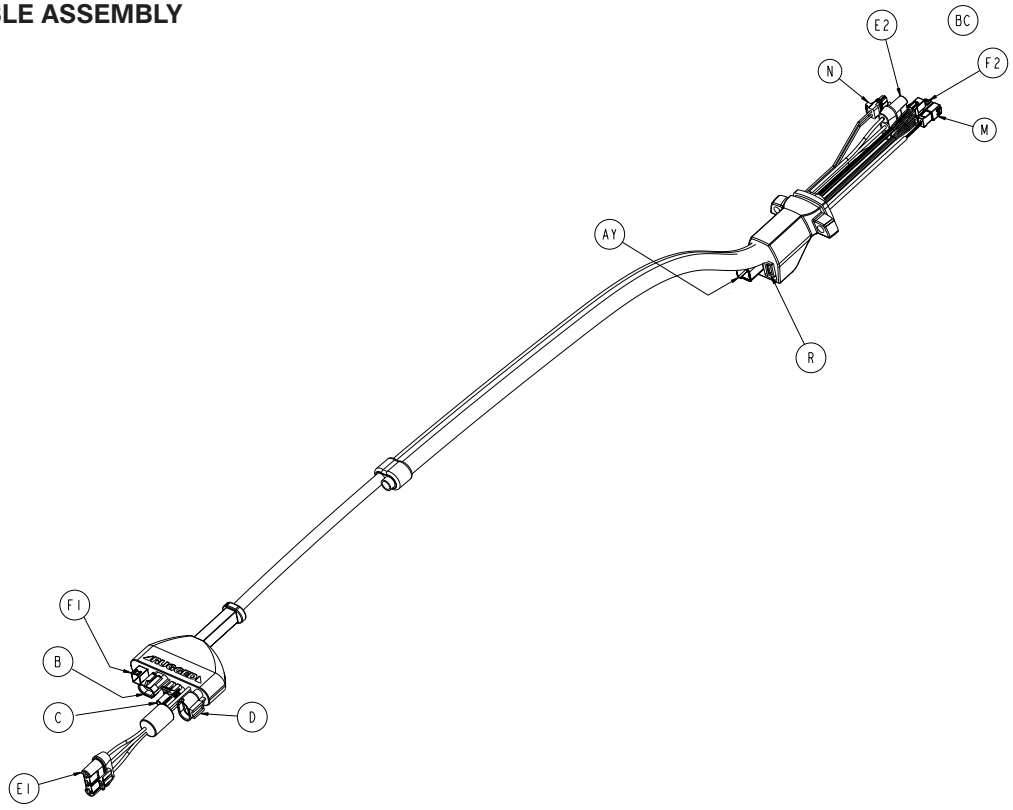
LCD DISPLAY	ERROR DESCRIPTION	DETECTION PERIOD
ERR 01	RAM diagnostic failure	Initialization
ERR 02	Program memory failure	Initialization
ERR 03	EE diagnostic failure	Initialization
ERR 04	EEPROM type and hardware type incompatible	Initialization
ERR 10	Valve(s) diagnostic failure	Initialization
ERR 61	EEPROM rev and firmware rev incompatible	Initialization
ERR 21	Motor shorted	Initialization
ERR 22	Motor open	Initialization
ERR 23	High power gating relay shorted	Initialization
ERR 51	Motor drive FET shorted - Q15	Initialization
ERR 52	Motor drive FET shorted - Q11	Initialization
ERR 55	Motor drive FET shorted - Q16	Initialization
ERR 56	Motor drive FET shorted - Q12	Initialization
ERR 62	Main Micro and ASIC current limit mismatch	Initialization
ERR 80	Extend (+) or retract (-) button detected without key	Run Time
ERR 31	Electronics board over temp (280.22 ˚F +/- 5%)	Run Time
ERR 81	Bad hall effect sensor combination	Run Time
ERR 93	Safety Micro non-responsive	Run Time

SAFETY MICRO

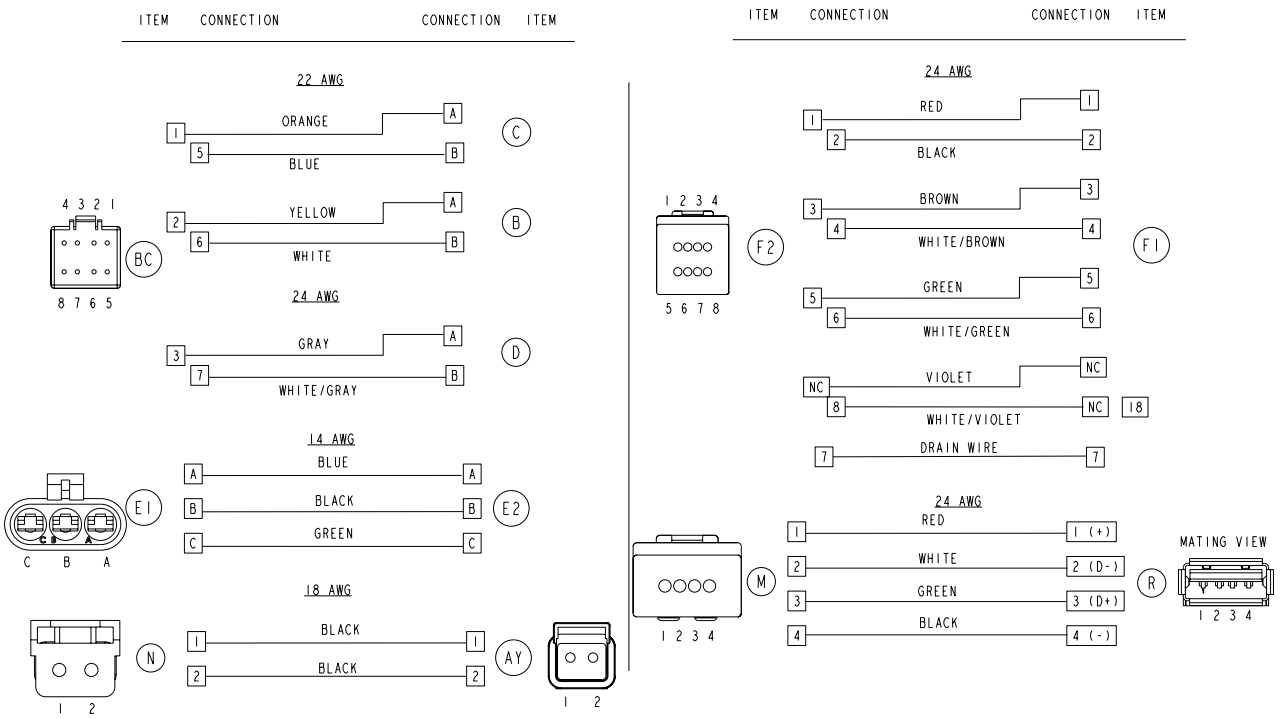
LCD DISPLAY	ERROR DESCRIPTION	DETECTION PERIOD
ERR 05	RAM diagnostic failure	Initialization
ERR 06	Program memory diagnostic failure	Initialization
ERR 08	EEPROM type and hardware type incompatible	Initialization
ERR 40	Data error	Run Time
ERR 41	Charging failed battery voltage	Run Time
ERR 42	Charging failed read battery	Run Time
ERR 43	Charging failed battery charging time or over voltage limit	Run Time
ERR 44	Charging failed charging current	Run Time
ERR 45	Charging failed delta temp	Run Time
ERR 63	EEPROM rev and firmware rev incompatible	Initialization
ERR 83	Extend (+) or retract (-) button detected without key	Run Time
ERR 90	ASIC driving without microprocessor instruction	Run Time

Return To Table of Contents

MAIN CABLE ASSEMBLY

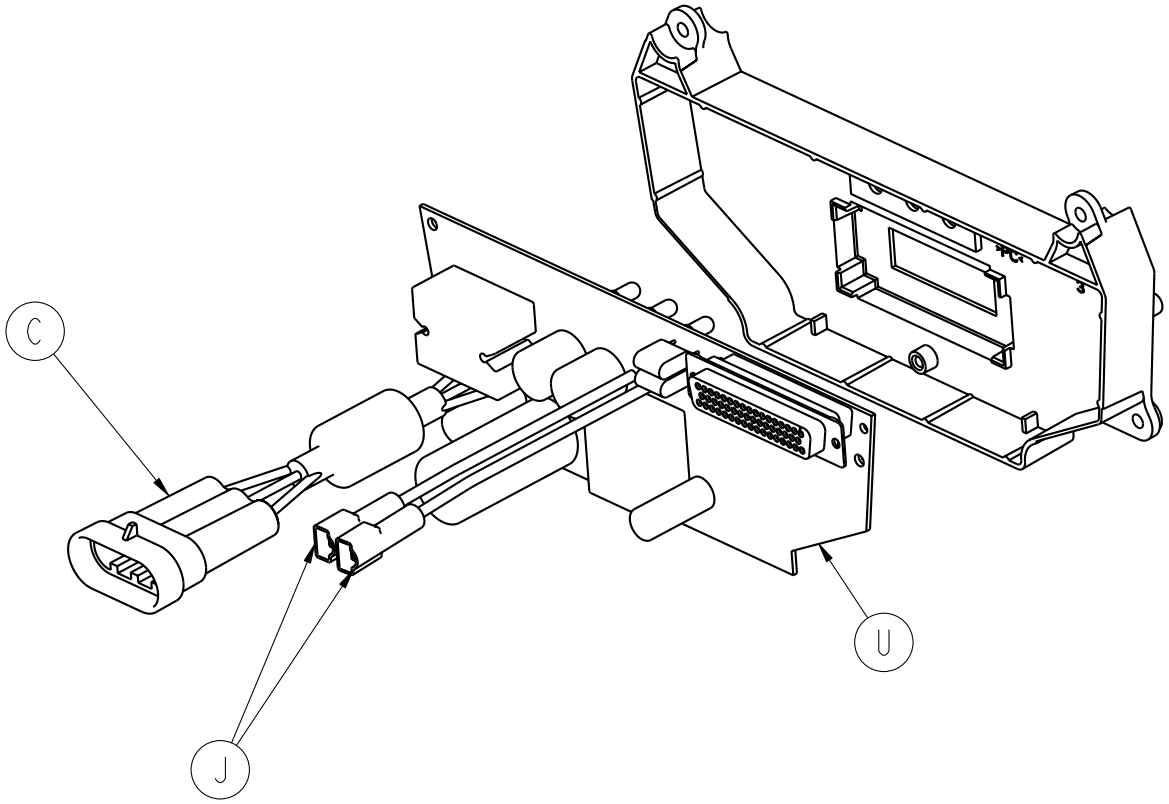


MAIN CABLE ASSEMBLY WIRING SCHEMATICS

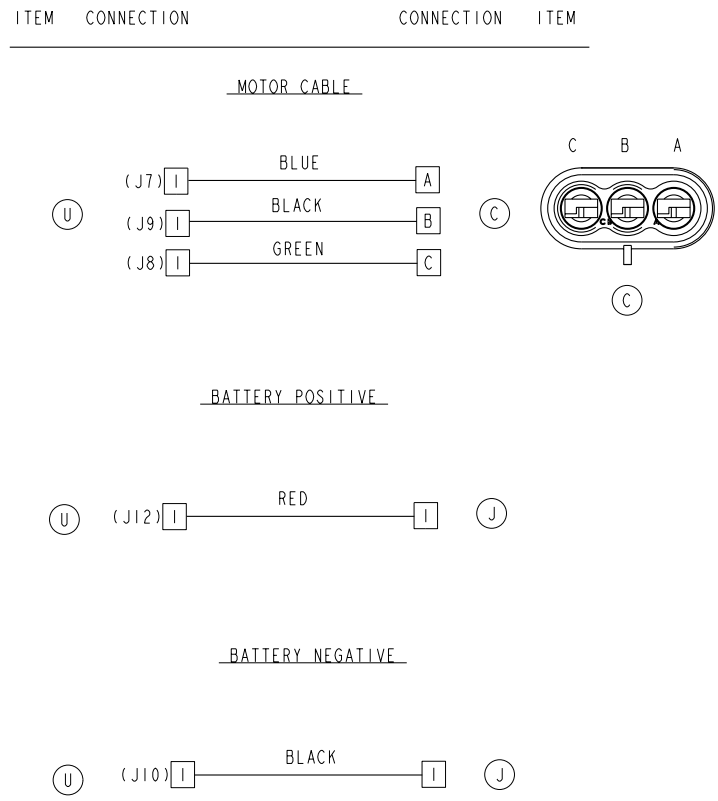


Return To Table of Contents

CONTROL BOARD ASSEMBLY



CONTROL BOARD WIRING SCHEMATICS



Return To Table of Contents

Quick Reference Replacement Parts List

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

Part Name	Part Number
Base Storage Net	6500-160-000
Cable, Hall Effect Sensor	6500-001-160
DC Battery Charger, 110V, Domestic	6500-070-000
DC Battery Charger 12V/24V, In-Ambulance	6500-072-000
Electronics Assembly	6500-002-014
Hydraulic Oil	6500-001-293
Kit, Battery Pack, SMRT Pak	6500-700-046
Kit, SMRT Power System 12V DC (Car Charger), includes charger, 2 paks, and power cord	6500-700-040
Kit, SMRT Power System 120V AC (Wall Charger), includes charger, 2 paks, and power cord	6500-700-041
Mounting Bracket, SMRT Charger	6500-201-100
Safety Hook, J	6092-036-018
Safety Hook, Long	6060-036-017
Safety Hook, Short	6060-036-018
Storage Flat, Head End	6500-128-000
Touch-Up Paint (Yellow)	6060-199-010
Touch-Up Paint (Black)	7000-001-322
Valve, “A”	6500-001-286
Valve, “B”	6500-001-287
Valve, Locking	6500-001-288
Valve, Non-Locking	6500-001-289
Wheel Lock	6082-200-010

Return To Table of Contents

HEADSECTION REPLACEMENT

Tools Required:

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

Procedure:

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

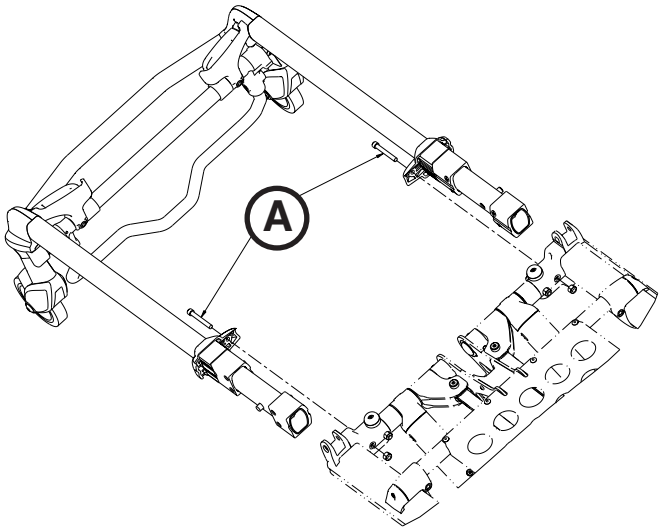


Figure 47

MANUAL RELEASE CABLE ADJUSTMENT

Tools Required:

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

Procedure:

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

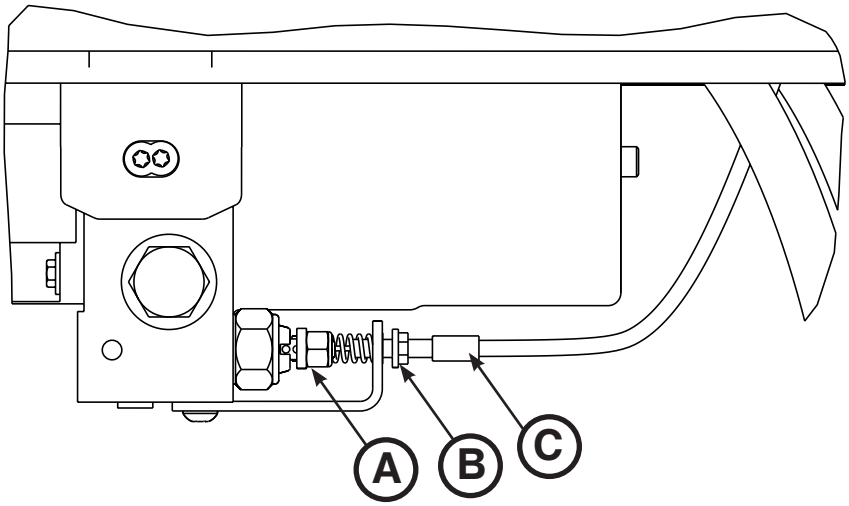


Figure 48

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

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

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

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

Return To Table of Contents

FILLING THE HYDRAULICS ASSEMBLY RESERVOIR

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

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

Tools Required:

- 3/16” Hex 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 (A) using a 3/16" hex wrench (Figure 49).
4. Fill the reservoir up to the bottom of the fill port.
5. Replace the plug and run the cot up and down a few times.
6. Verify proper operation of the unit before returning it to service.

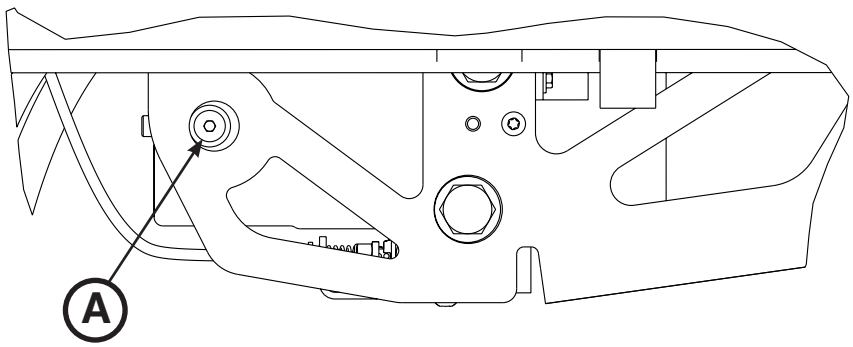


Figure 49

WHEEL LOCKING FORCE ADJUSTMENT

Tools Required:

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

Procedure:

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

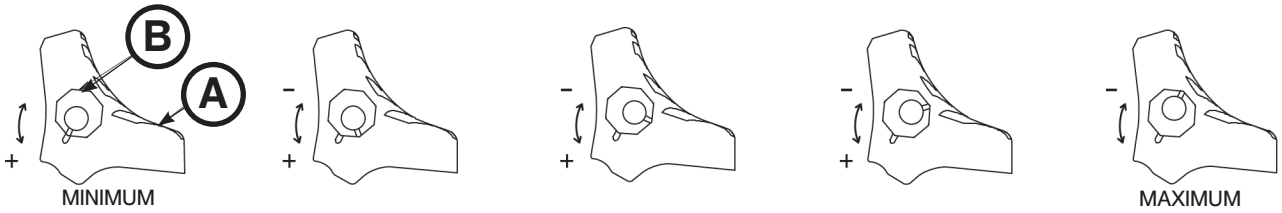


Figure 50: Wheel Locking Force Adjustment

Return To Table of Contents

STEER-LOCK MECHANISM ADJUSTMENT

Tools Required:

- 9/16” Combination Wrench

Procedure:

If your steer-lock mechanism will not engage:

- Using a 9/16” combination wrench, adjust the barrel nuts toward the foot end of the cot (Figure 51).

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

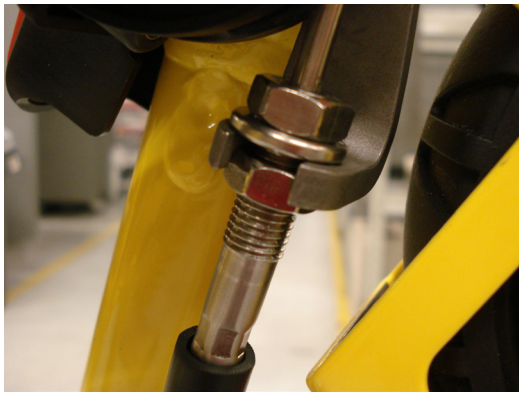


Figure 51

If your steer-lock mechanism will not disengage:

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

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

Figure 52

Return To Table of Contents

COT RETAINING POST ADJUSTMENT

Tools Required:

- 3/16” Hex 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” hex wrench, remove the two socket head cap screws (A) that hold the pin brackets (B) to the base frame (C) (Figure 53).
2. Turn the bottom pin bracket 180˚.
3. Using a 3/16” hex wrench, reinstall the two socket head cap screws that were removed in step 1.
4. Verify proper operation of the unit before returning it to service.

Note: If the arrow (D) on the bottom bracket of the retaining post (E) 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 (Figure 53).

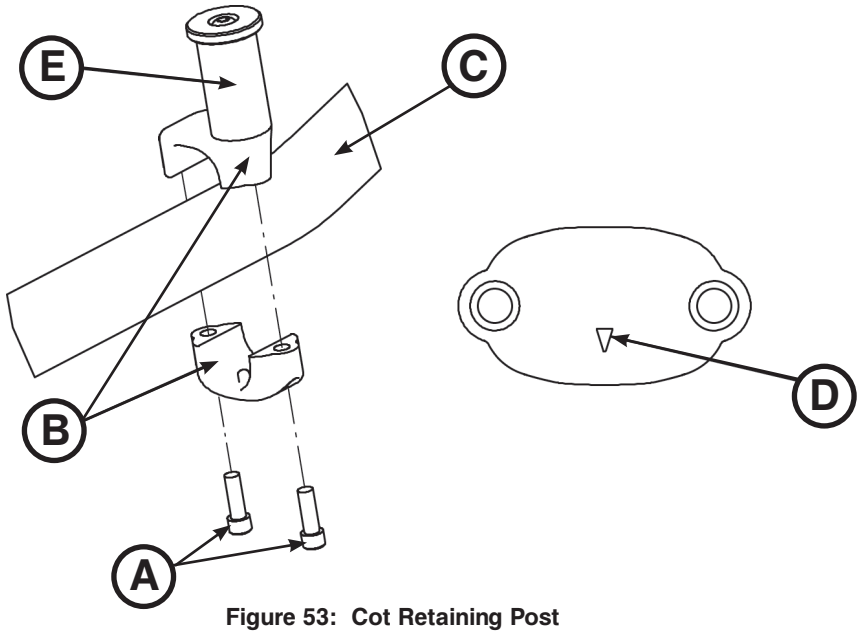


Figure 53: Cot Retaining Post

Return To Table of Contents

COT RETAINING POST REPLACEMENT

Tools Required:

- T30 Torx Driver
- 5/32” Hex Wrench
- Torque Wrench (in-lb)

Procedure:

1. Raise the cot to the full upright position.
2. Turn the cot onto the patient left side.

   Note: Locate the arrow that is located on the bottom bracket. The replacement retaining post bracket will need to be assembled in the same orientation.

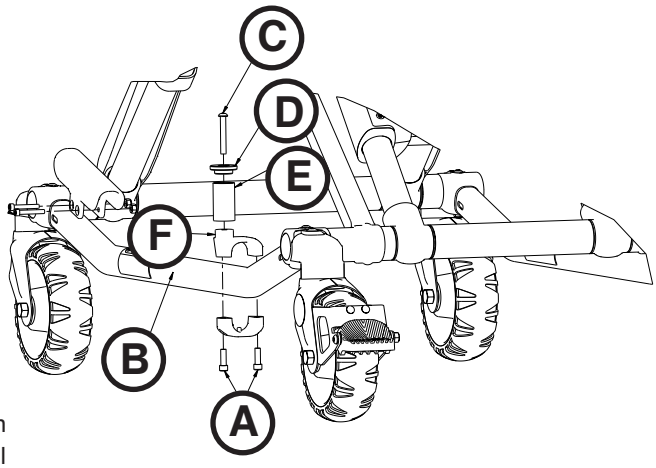


Figure 54

3. Using a T30 Torx driver, remove the two socket head cap screws (A) that secure the current cot retaining post to the base tube (B) (Figure 54). Discard the screws and cot retaining post.
4. Insert the button head cap screw (C) through the retaining post cap (D) and post tube (E), and then into the top pin bracket (F) (Figure 54).
5. Using a 5/32” hex wrench, tighten the button head cap screw (C) completely to secure the retaining post cap (D) and post tube (E) to the top pin bracket (F) (Figure 54). Using a torque wrench, torque the screw to 100-140 in-lb.
6. Assemble the cot retaining post across the base tube. Align the holes of the retaining post halves and insert the two socket head cap screws into the threaded holes of the retaining post top.
7. Using a T30 Torx driver, tighten the two socket head cap screws completely.
8. Verify proper operation of the unit before returning it to service.

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

COT RETAINING POST SCREW REPLACEMENT

Tools Required:

- T25 Torx Driver
- 5/32” Hex Wrench
- Torque Wrench (in-lb)

Procedure:

1. Using a T25 Torx driver or 5/32” hex wrench, remove the button head cap screw that secures the retaining post cap and post tube to the top pin bracket. Discard the screw.
2. Using a 5/32” hex wrench, install and tighten the button head cap screw (p/n 0004-503-000) completely to secure the retaining post cap and tube to the top portion of the retaining post assembly. Using a torque wrench, torque the screw to 100-140 in-lb.

   Note: If you cannot torque the screw to 100-140 in-lb, then you must replace the entire cot retaining post. See “Cot Retaining Post Replacement”.

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

Return To Table of Contents

HYDRAULIC A VALVE OR B VALVE REPLACEMENT

Tools Required:

- T25 Torx Driver
- 3/4” Combination Wrench
- 7/8” Combination Wrench
- (2) Saw Horse

Procedure:

1. Raise the cot to the full upright position.
2. Using two saw horses, support the litter and activate the manual release handle to relieve any hydraulic oil pressure.
3. Using a T25 Torx driver, remove the seat pan from the litter to access the hydraulic assembly.
4. Disconnect all connections to the main cable assembly.
5. Using a 3/4” combination wrench, remove the nut that secures the solenoid to the A valve (A) or B valve (B) (Figure 55). Save the nut for reinstallation.
6. Remove the solenoid from the valve. Save the solenoid for reinstallation.
7. Using a 7/8” combination wrench, remove the A valve or B valve from the hydraulic subassembly.

   Note: Hydraulic oil will leak from the valve and manifold. Lay down towels to catch the oil.

8. Reverse steps to reinstall.
9. Check functionality by running the cot up and down several times. If necessary, add hydraulic oil. See “Filling the Hydraulics Assembly Reservoir” on page 84.
10. Verify proper operation of the unit before returning it to service.

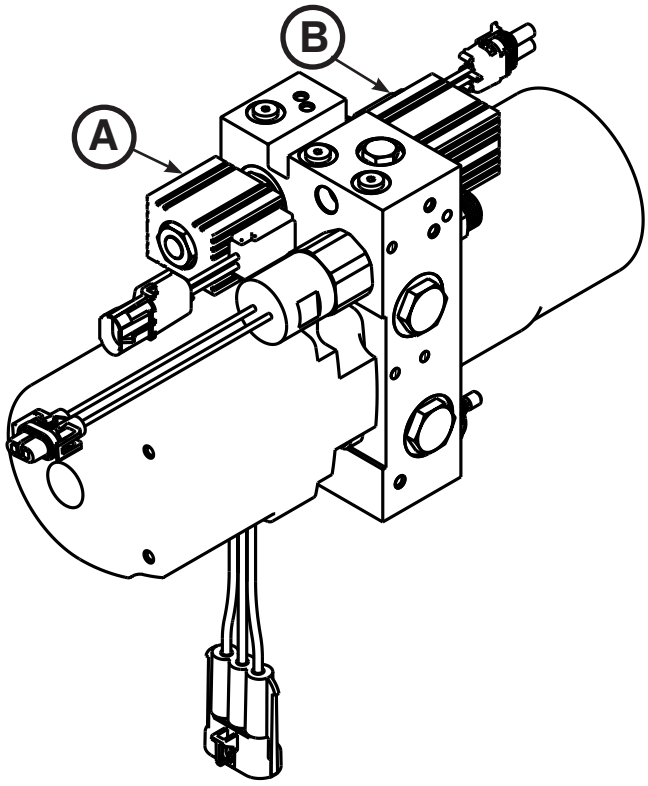


Figure 55

Return To Table of Contents

HYDRAULIC MANUAL RELEASE VALVE REPLACEMENT

Tools Required:

- T27 Torx Driver
- 7/16” Combination Wrench
- 1/8” Hex Wrench
- 7/8” Hex Wrench
- (2) Saw Horse

Procedure:

1. Raise the cot to the full upright position.
2. Using two saw horses, support the litter and activate the manual release handle to relieve any hydraulic oil pressure.
3. Using a T27 Torx driver, remove the two button head cap screws (A) that secure the manual release cable bracket to the bottom of the hydraulic subassembly (Figure 56).
4. Using a 1/8” hex wrench, place the hex wrench through the stem at the groove in the valve body to hold the valve stem in position.
5. Using a 7/16” combination wrench, remove the Nylock hex nut (B) from each of the valve stems (Figure 56).
6. Using a 7/8” combination wrench, remove the valve (C or D) to be replaced (Figure 57).
7. Reverse steps to reinstall.
8. Check functionality by running the cot up and down several times. If necessary, add hydraulic oil. See “Filling the Hydraulics Assembly Reservoir” on page 84.
9. Verify proper operation of the unit before returning it to service.

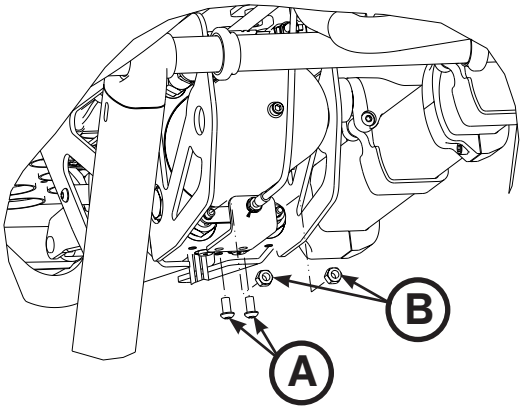


Figure 56

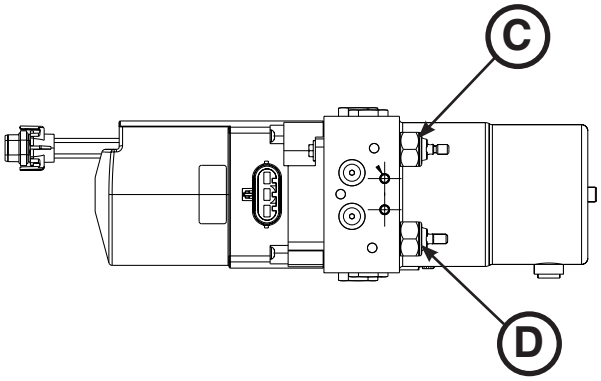


Figure 57

Return To Table of Contents

HYDRAULIC CYLINDER REPLACEMENT

Tools Required:

- 9/16” Combination Wrench
- 3/4” Combination Wrench
- 11/16” Combination Wrench
- 13/16” Combination Wrench
- 3/8” Combination Wrench
- 1/8” Hex Wrench
- (2) Saw Horse

Procedure:

1. Raise the cot to the full upright position.
2. Using two saw horses, support the litter and activate the manual release handle and manually compress ram to remove the tension on the base cross tube connecting bolt.
3. Using a 3/4” and 9/16” combination wrench, remove the rod attachment pin (A), washer (B), and Nylock hex nut (C) that secure the hydraulic cylinder to the base (Figure 58).
4. Activate the manual release handle and fully compress the hydraulic cylinder.
5. Using a 11/16” and 13/16” combination wrench, remove both hoses (D) from the hydraulic cylinder (E) (Figure 59).

   Note: Hydraulic oil will leak from the hoses and cylinder. Lay down towels to catch the oil.

6. Keep the hose ends high and upright to minimize the amount of fluid lost.
7. Using a 1/8” hex wrench and 3/8” combination wrench, remove the two socket head set screws (F) and Fiberlock hex nuts (G) that secure the hydraulic cylinder to the base (Figure 60).
8. Reverse steps to reinstall.
9. Check functionality by running the cot up and down several times. If necessary, add hydraulic oil. See “Filling the Hydraulics Assembly Reservoir” on page 84.
10. Verify proper operation of the unit before returning it to service.

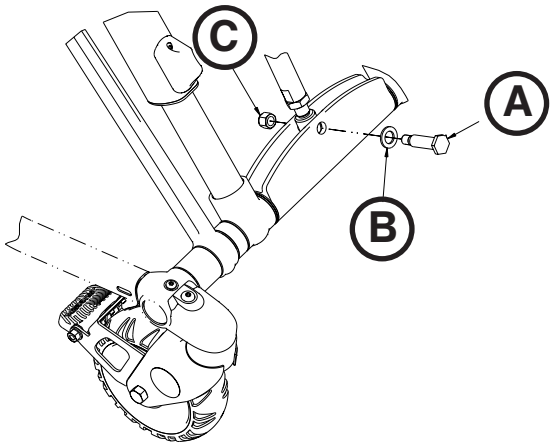


Figure 58

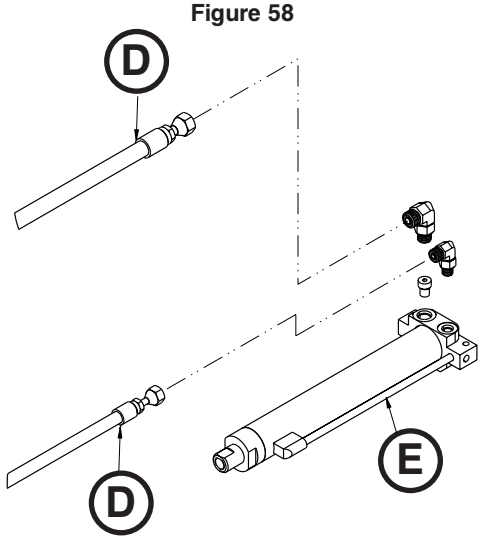


Figure 59

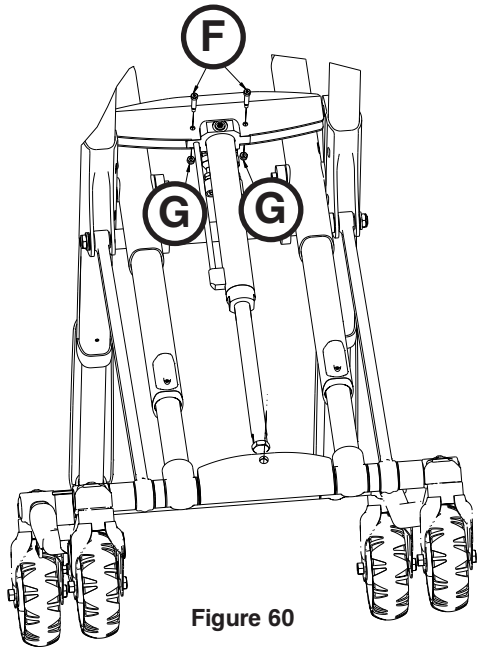


Figure 60

Return To Table of Contents

HYDRAULIC HOSE REPLACEMENT

Tools Required:

- 13/16” Combination Wrench
- 11/16” Combination Wrench
- (2) Saw Horse

Procedure:

1. Raise the cot to the full upright position.
2. Using two saw horses, support the litter and activate the manual release handle to relieve any hydraulic oil pressure.
3. Using 11/16” and 13/16” combination wrenches, remove the damaged hose (A or B) (Figure 61).

   Notes:
   - Pay attention to the routing of the hydraulic hose for reinstallation.
   - Hydraulic oil will leak from the hoses and cylinder. Lay down towels to catch the oil.

4. Reverse steps to reinstall.
5. Check functionality by running the cot up and down several times. If necessary, add hydraulic oil. See “Filling the Hydraulics Assembly Reservoir” on page 84.
6. Verify proper operation of the unit before returning it to service.

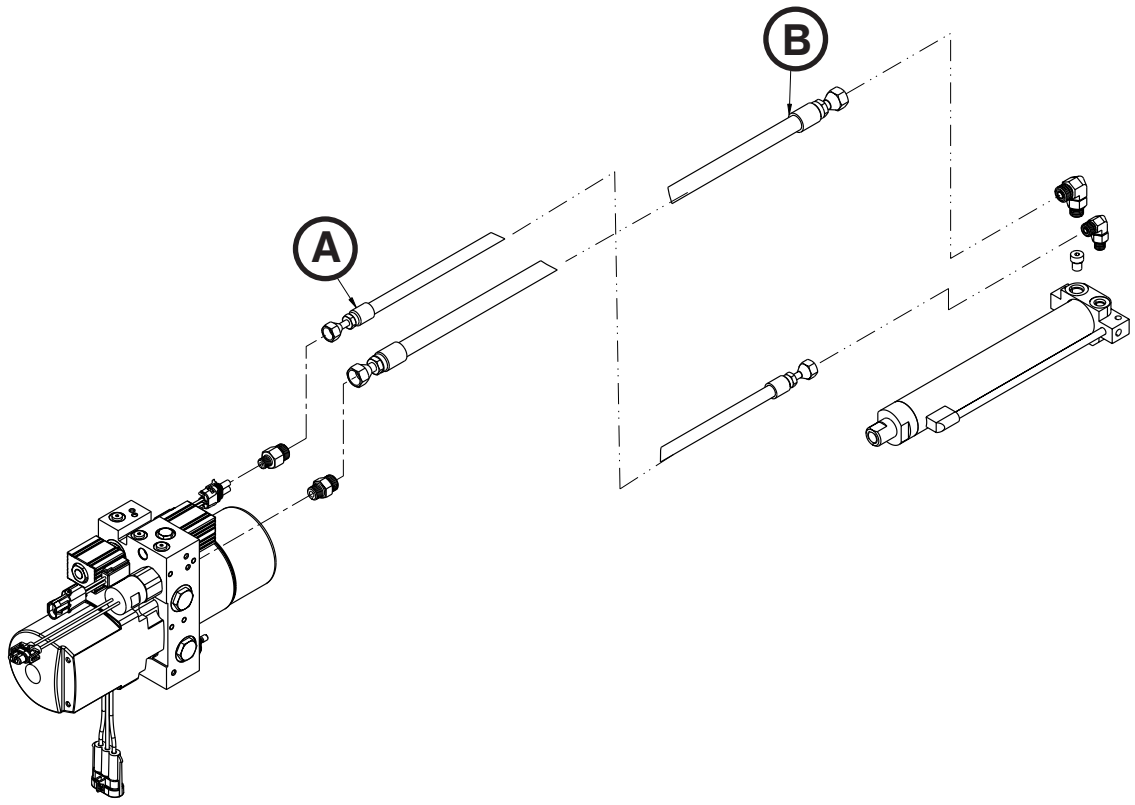


Figure 61

Return To Table of Contents

TERMINAL BLOCK REPLACEMENT

Tools Required:

- T20 Torx Driver
- T25 Torx Driver

Procedure:

1. Raise the cot to full up position.
2. Remove the battery and save for reinstallation.
3. Using a T25 Torx driver, remove the six outer button head cap screws (A) from the face plate (Figure 62). Save all screws for reinstallation.
4. Using a T20 Torx driver, remove the four inner delta screws (B) from the face plate to remove the face plate (Figure 62). Save all screws and the face plate for reinstallation.
5. Using a T20 Torx driver, remove the four delta screws (C) that secure the electronics assembly to the foot end enclosure and pull the electronics assembly out (Figure 63). Save all parts for reinstallation.
6. Unplug the black and red wires that connect the cot connector cable assembly (D) to the control board (E) (Figure 64).
7. Using a T20 Torx driver, remove the two delta screws (F) from the bottom plate of the foot end enclosure (G) to remove the enclosure (Figure 64). Save all parts for reinstallation.
8. Remove the terminal block and discard.
9. Reverse steps to reinstall.
10. Check functionality by running the cot up and down several times.
11. Verify proper operation of the unit before returning it to service.

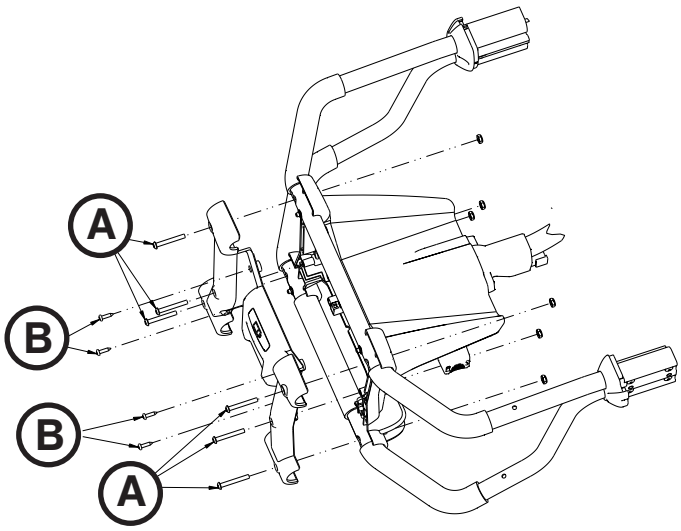


Figure 62

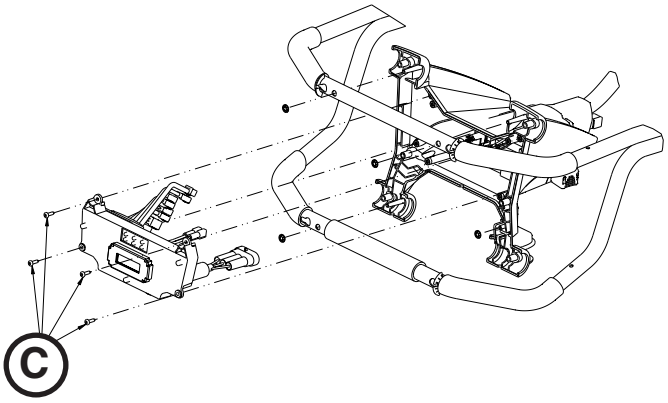


Figure 63

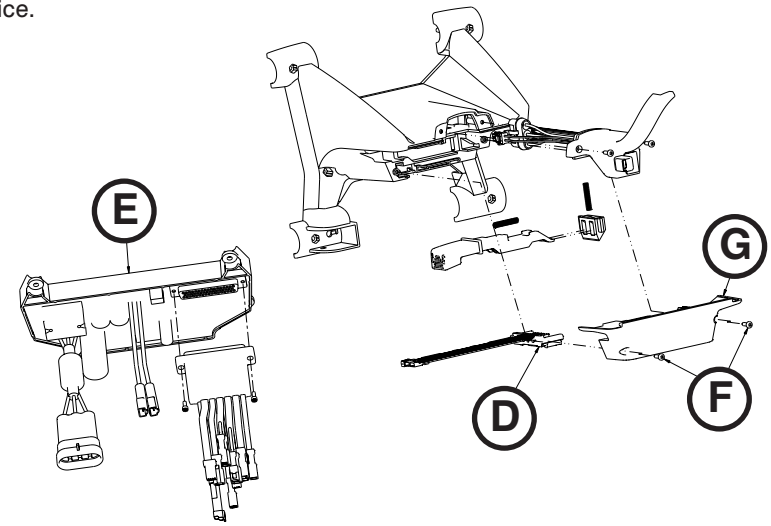
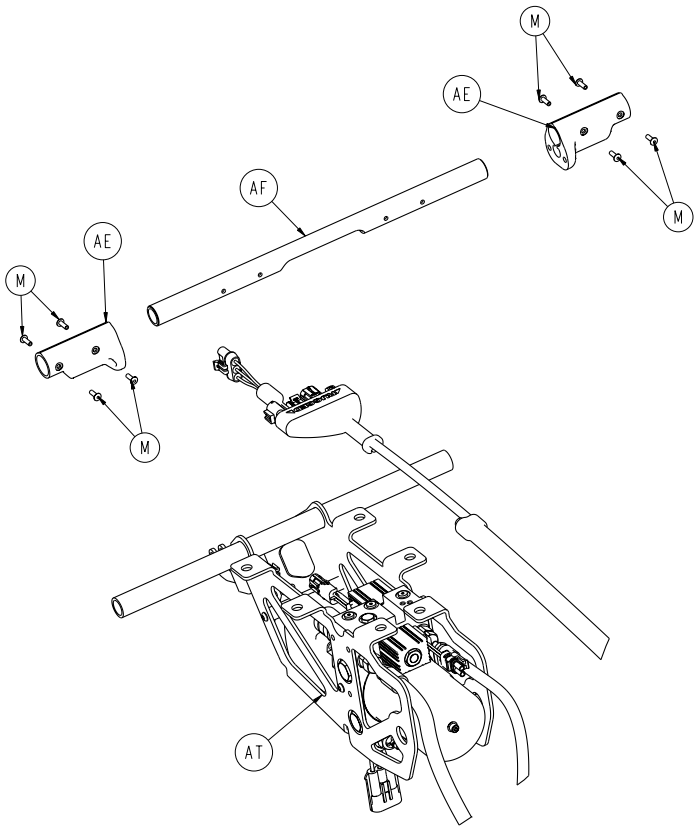
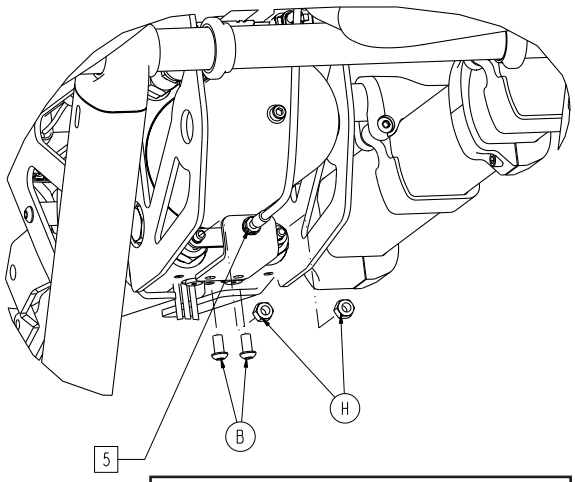


Figure 64

Return To Table of Contents

6516-001-010 Rev D (Reference Only)





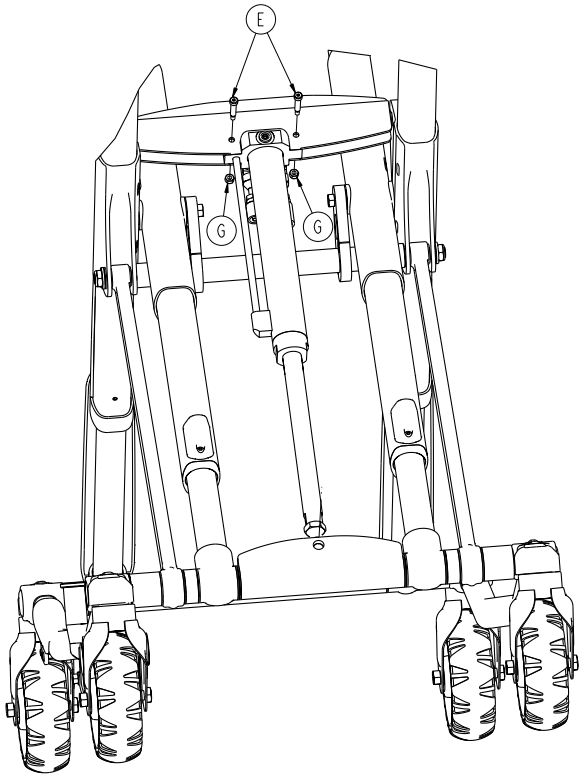
Notes:

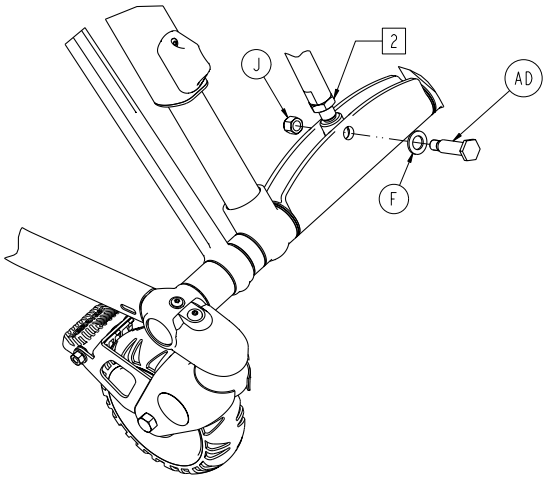
1 Secure cable to crossmember with Item P

2 Torque nut to 55±5 ft-lb

3 6510-001-050 weldment shown for reference only

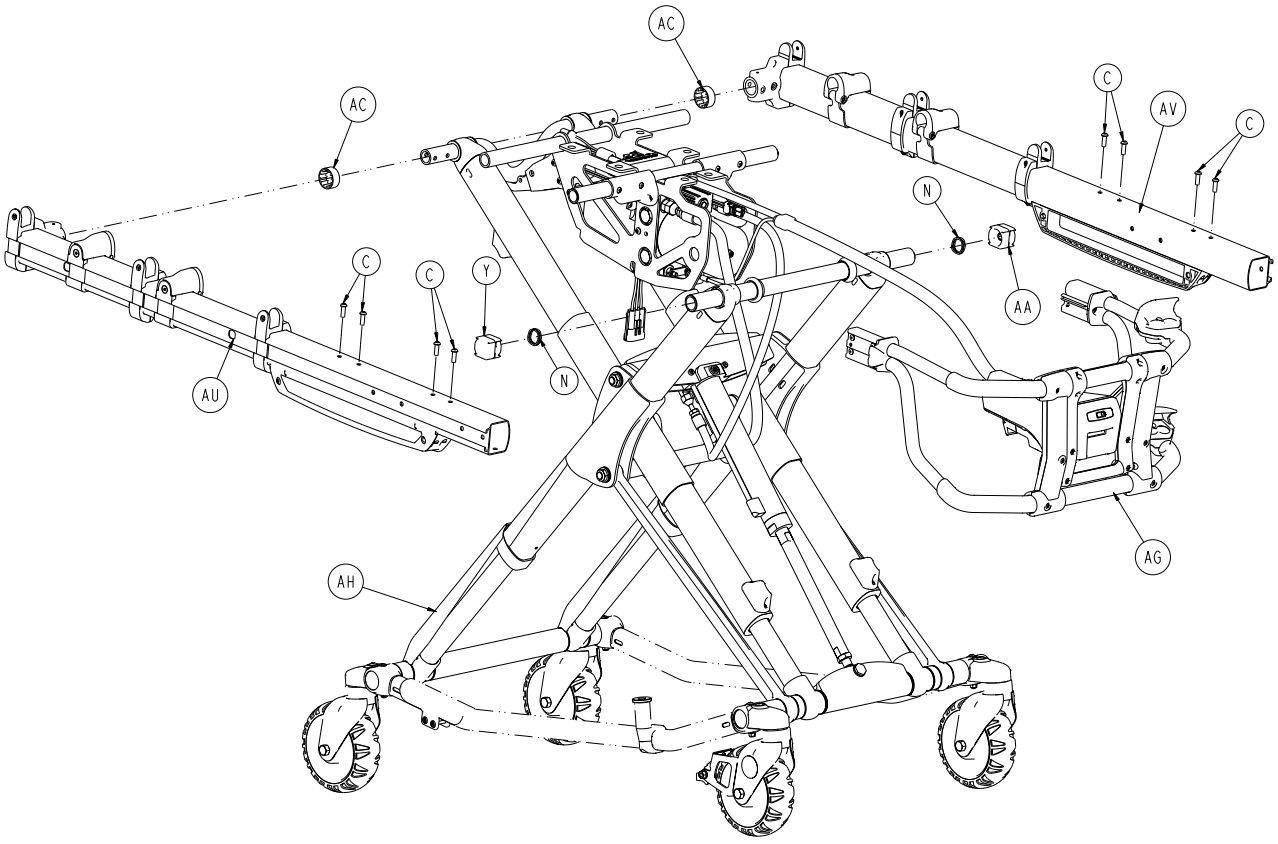
5 Torque nut to 6.0±0.5 Nm

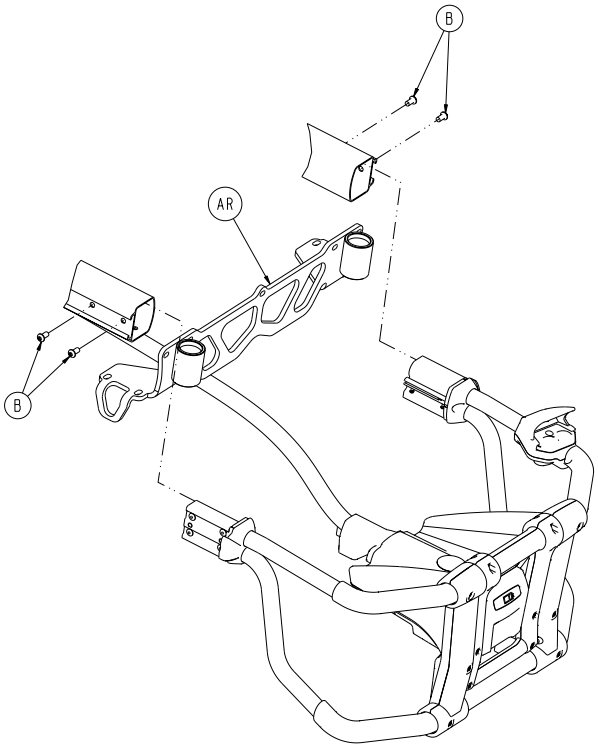


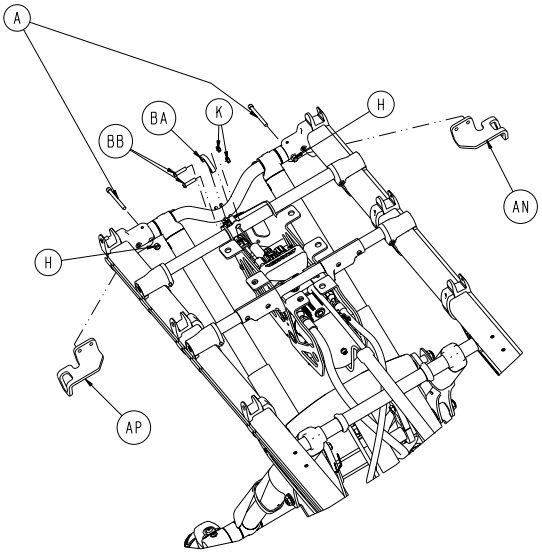


Return To Table of Contents

Cot Assembly

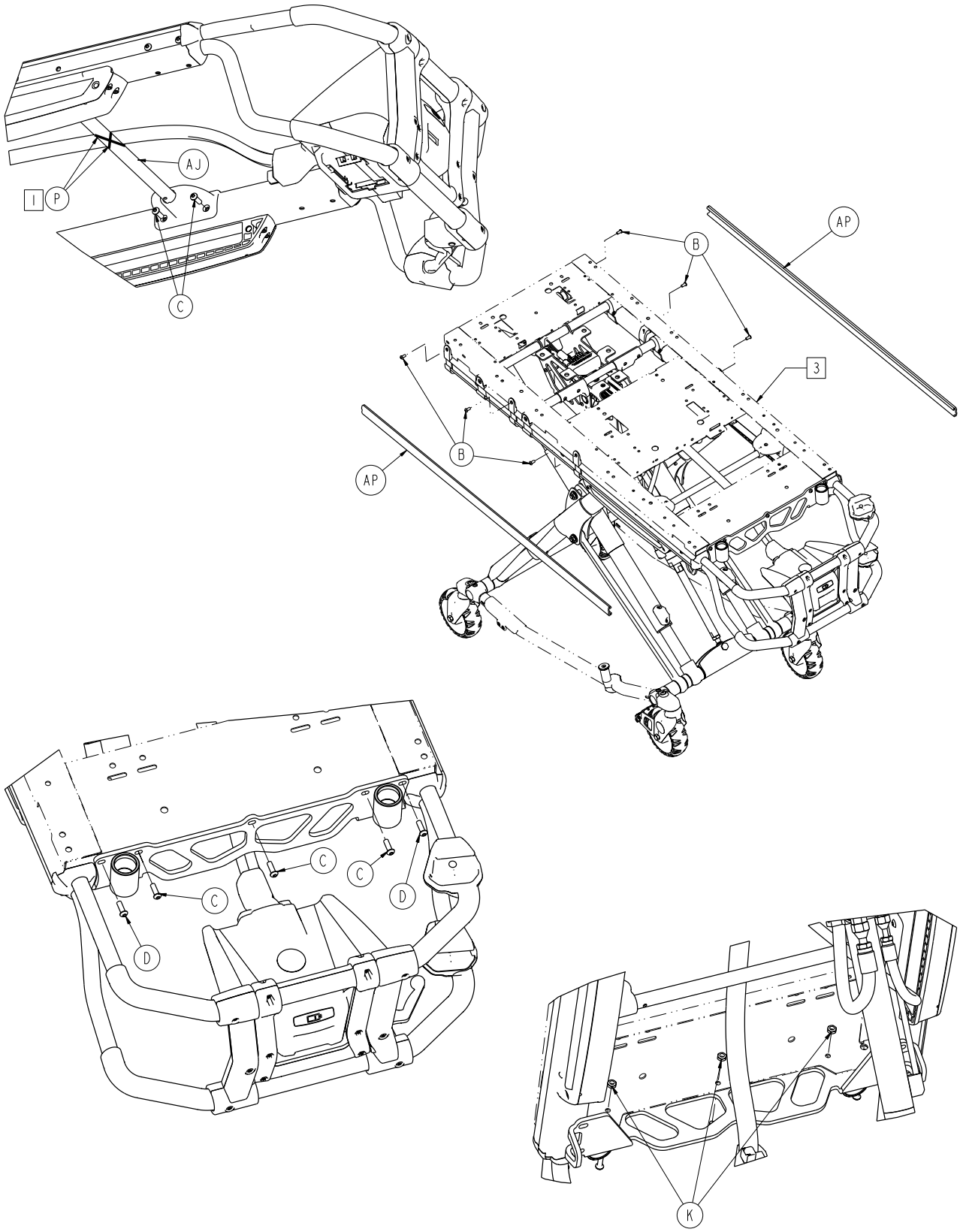






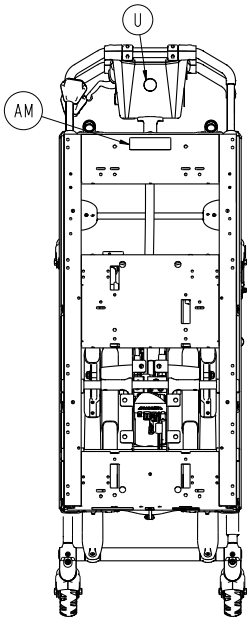
Return To Table of Contents

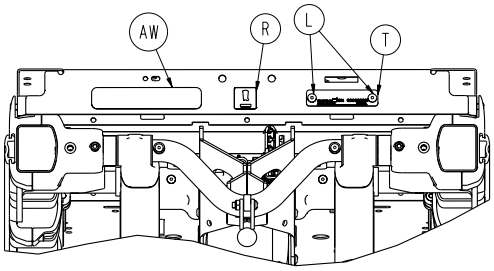
Cot Assembly

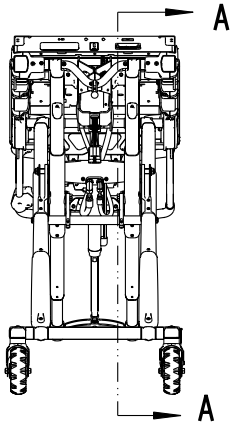


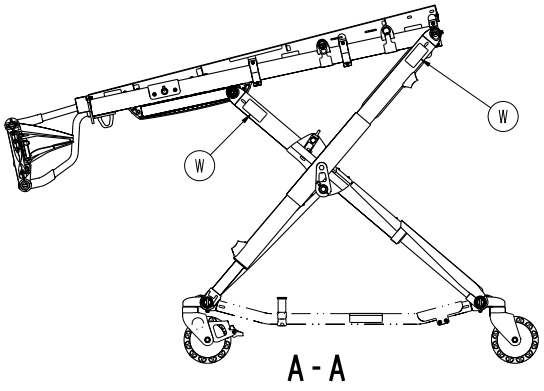
Return To Table of Contents

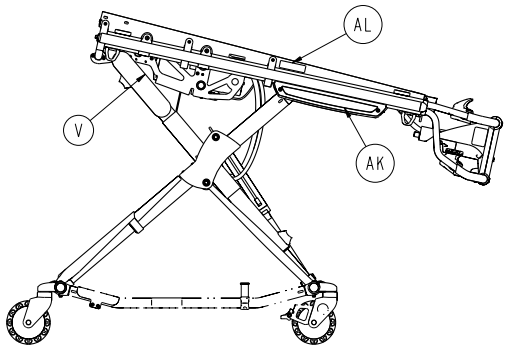
Cot Assembly

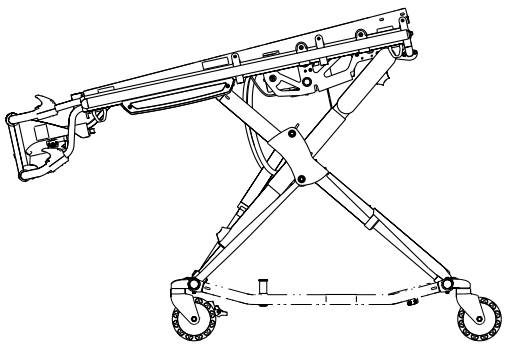












Return To Table of Contents

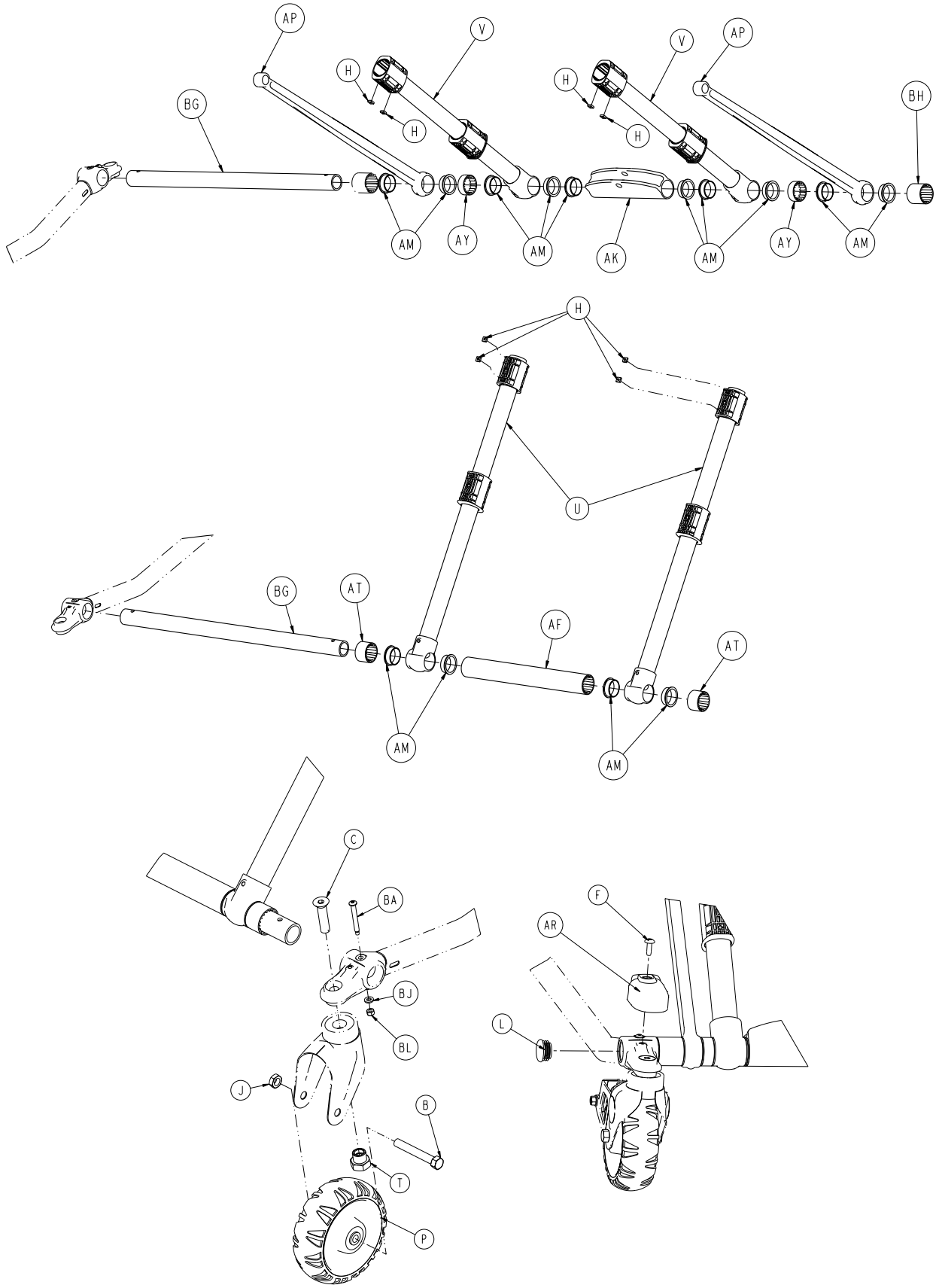
Cot Assembly - 6516-001-010 Rev D (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-517-000	Socket Head Cap Screw	2
B	0004-589-000	Button Head Cap Screw	12
C	0004-592-000	Button Head Cap Screw	15
D	0004-593-000	Button Head Cap Screw	2
E	0008-030-000	Socket Head Set Screw	2
F	0011-013-000	Washer	1
G	0016-002-000	Fiberlock Hex Nut	2
H	0016-028-000	Fiberlock Hex Nut	4
J	0016-035-000	Nylock Hex Nut	1
K	0016-102-000	Nylock Hex Nut	5
L	0025-079-000	Rivet, Dome Head	2
M	0025-133-000	Rivet, Dome Head	8
N	0038-574-000	Crest-To-Crest Spring	2
P	0059-211-000	Nylon Cable Tie	2
R	2030-009-901	Label, WEEE	1
T	6060-090-002	Serial Number Tag	1
U	6080-090-101	Label, Brake Warning	1
V	6082-090-043	Label, 11”	2
W	6252-001-139	Label, Do Not Lubricate	4
Y	6500-001-017	Magnet Slider	1
AA	6500-001-123	Hall Effects Slider	1
AB	6500-001-127	Outer Rail Bumper	2
AC	6500-001-128	Spacer	2
AD	6500-001-168	Rod Attachment Pin	1
AE	6500-001-195	Motor Mount Casting	2
AF	6500-001-196	Litter Cross Brace	1
AG	6500-002-015	Foot End Assembly (page 120)	1
AH	6506-001-012	Base Assembly (page 99)	1
AJ	6510-001-013	Cross Brace Assembly (page 125)	1
AK	6510-001-116	Label, **Power-PRO™** IT	2
AL	6510-001-117	Label, Weight Capacity	2
AM	6510-001-121	Label, Warning	1
AN	6510-001-126	Bracket, Tie Down, Head End, Right	1
AP	6510-001-127	Bracket, Tie Down, Head End Left	1
AR	6510-101-052	Socket Weldment	1
AT	6516-001-014	Powerplant Assembly (page 118)	1
AU	6516-001-027	Outer Rail Subassembly, Right (page 114)	1
AV	6516-001-028	Outer Rail Subassembly, Left (page 115)	1
AW	6516-001-100	Label, **Power-PRO™ IT** Specification	1
BA	6500-002-195	Collar	1
BB	0004-594-000	Button Head Cap Screw	2

Return To Table of Contents

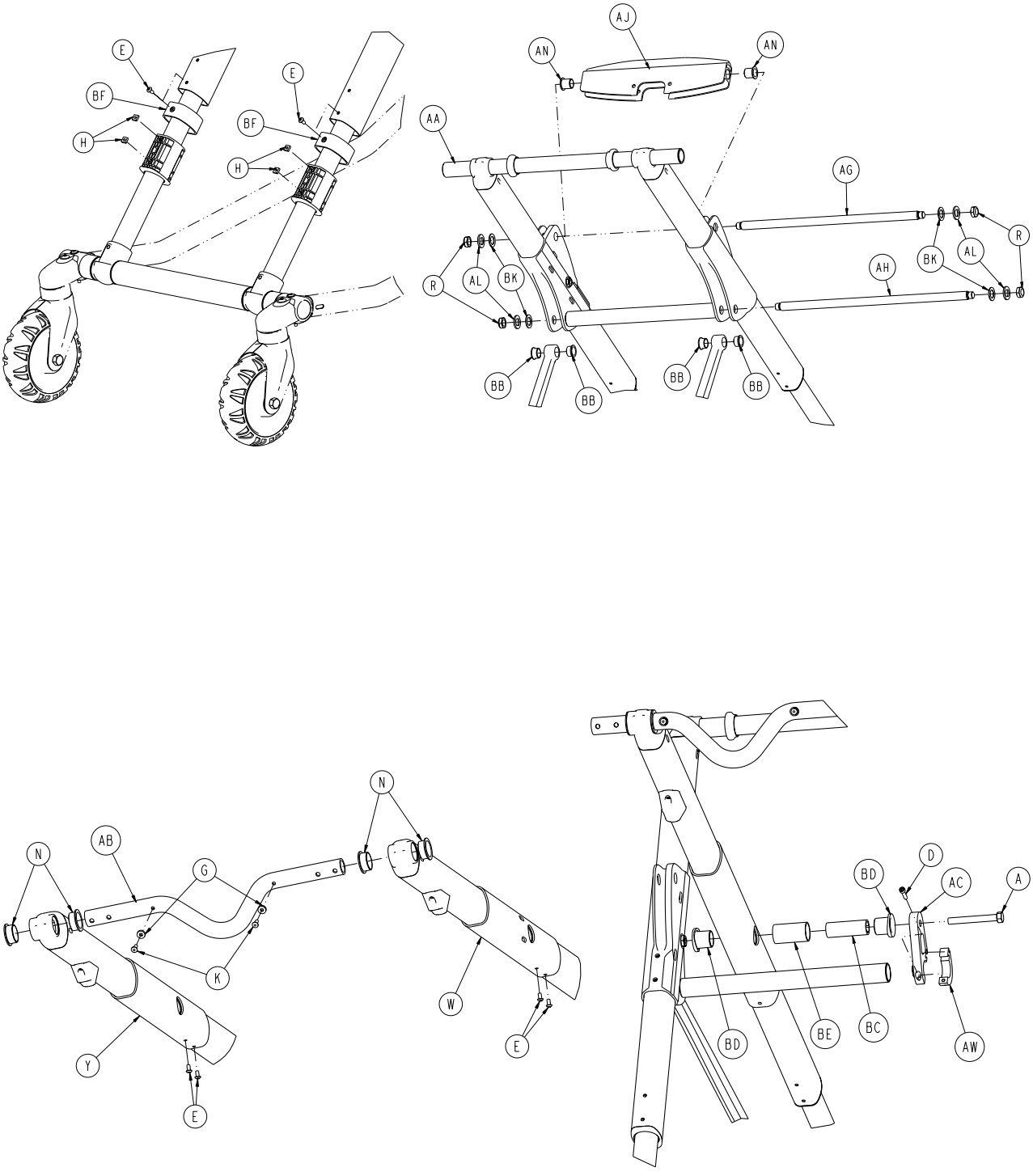
Base Assembly

6506-001-012 Rev A (Reference Only)



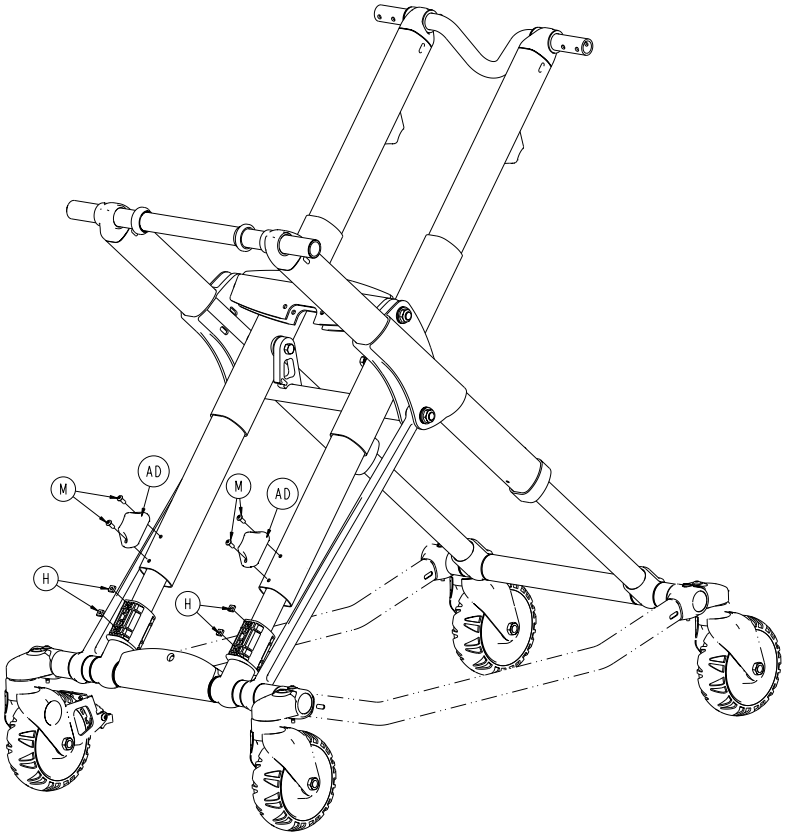
Return To Table of Contents

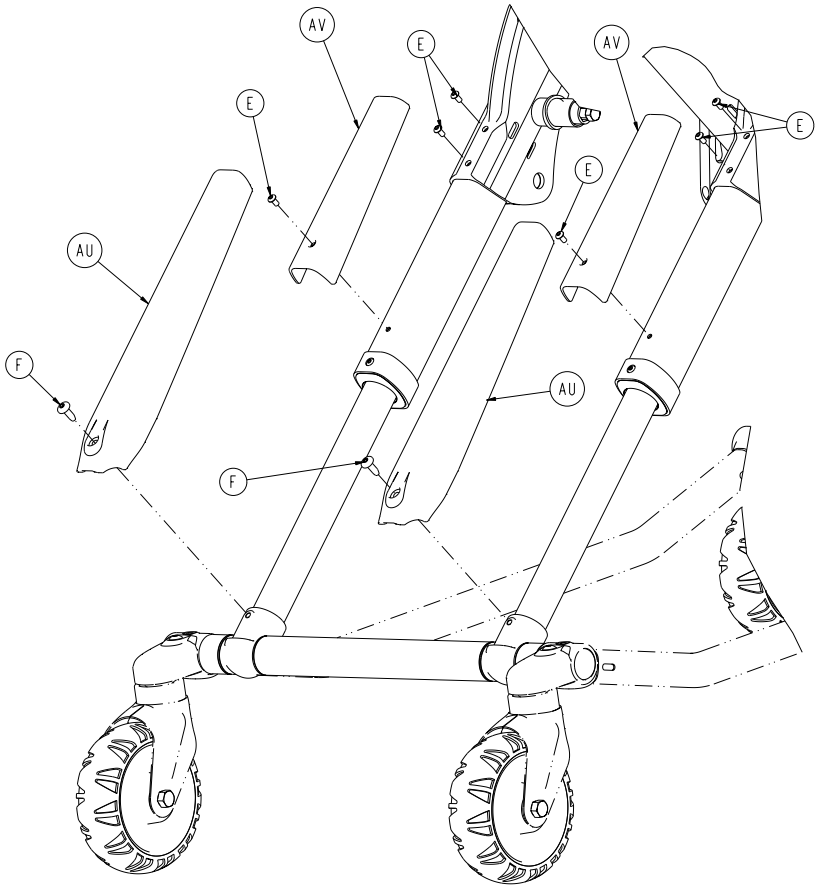
Base Assembly



Return To Table of Contents

Base Assembly





Return To Table of Contents

Base Assembly

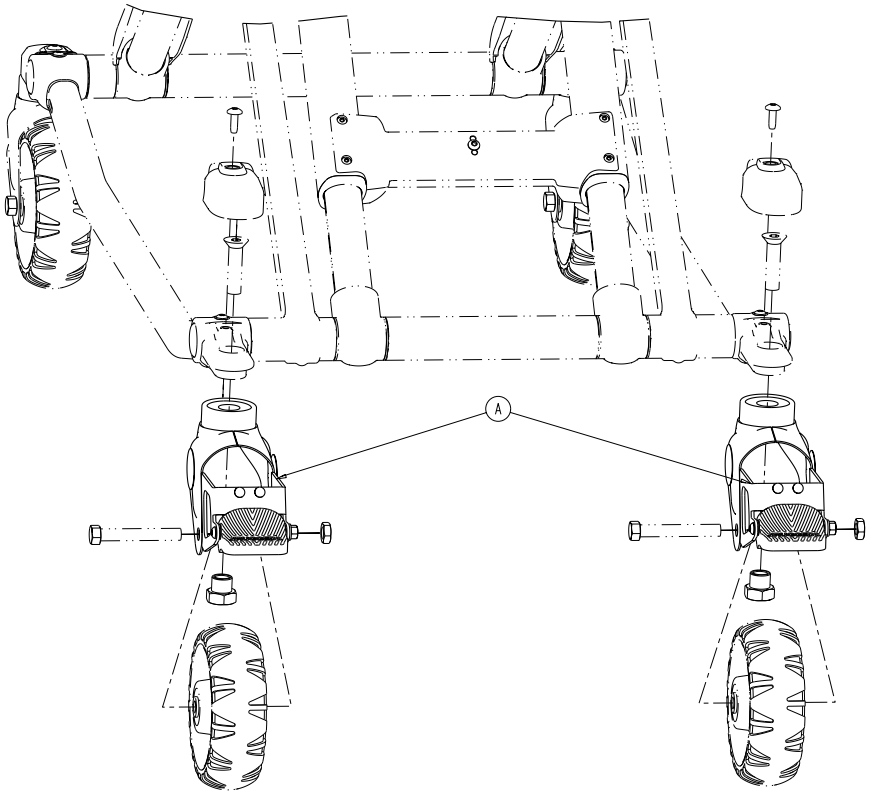
Base Assembly - 6506-001-012 Rev A (Reference Only)

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	0004-659-000	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 (page 106)	4
R	0016-049-000	Nylock Hex Nut	4
T	6090-001-009	Caster Nut	4
U	6500-301-021	Outer Lift Tube Assembly (page 110)	2
V	6500-301-022	Inner Lift Tube Assembly (page 111)	2
W	6500-001-034	Inner Lift Tube Assembly, Litter Pivot, Right (page 112)	1
Y	6500-001-035	Inner Lift Tube Assembly, Litter Pivot, Left (page 113)	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, Right	1
AD	6500-001-125	Base Dead Stop	2
AE	6500-001-309	Base Strap, 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	1
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	6500-001-310	Base Strap Clamp	2
AY	6500-001-183	Plastic Extrusion Spacer	2
BA	6085-001-097	Caster Mount Bolt	4
BB	6500-001-162	Flange Bearing	4
BC	6500-001-341	Base Tube Pivot Post	2
BD	6500-001-226	Base Tube Pivot Bearing	4
BE	6500-001-227	Base Tube Pivot Post	2
BF	6500-001-228	Inner Lift Tube Sleeve	2
BG	6500-001-229	Foot Base Tube	2
BH	6500-001-230	Plastic Extrusion Spacer	1
BJ	0014-002-000	Flat Washer	4
BK	0014-040-000	Flat Washer	4
BL	0016-002-000	Fiberlock Nut	4

Return To Table of Contents

Dual Wheel Lock Option

6086-502-010 Rev A (Reference Only)

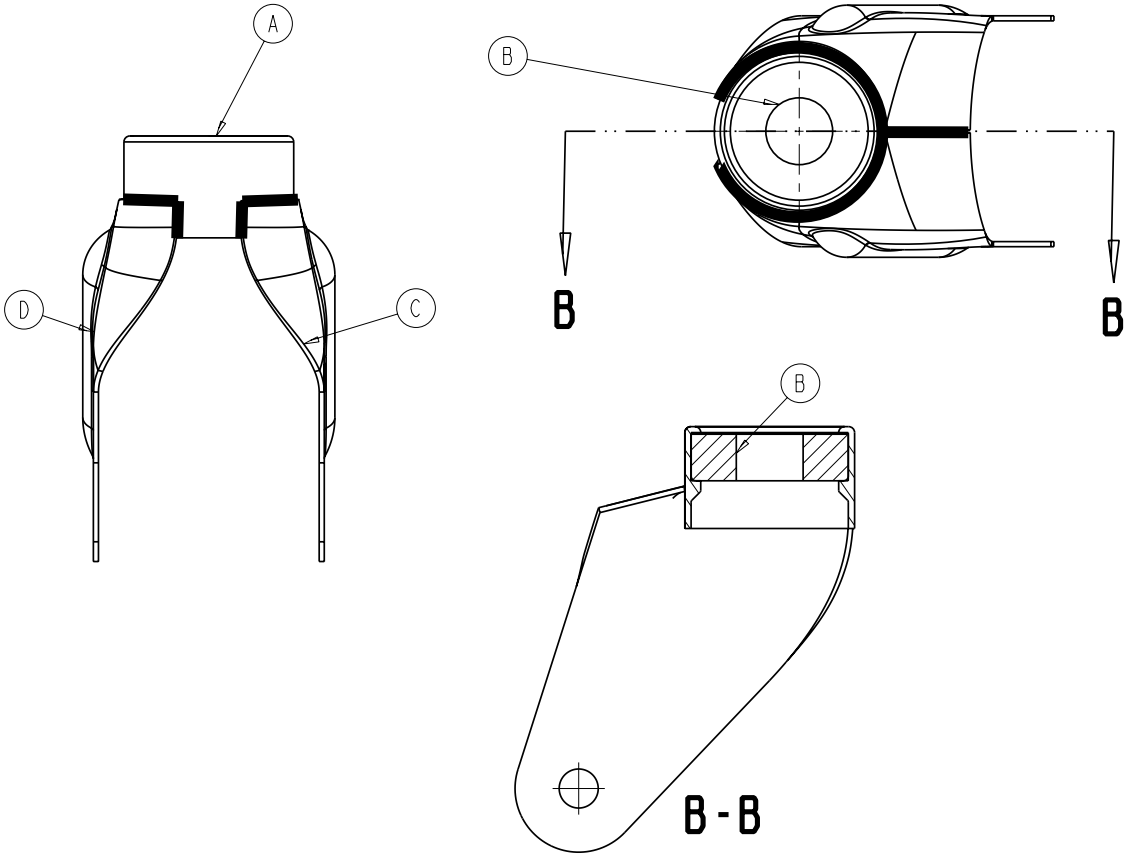


Item	Part No.	Part Name	Qty.
A	6082-200-010	Adjustable Caster Lock Assembly (page 105)	2

Return To Table of Contents

Caster Horn Assembly

6082-002-012 Rev C (Reference Only)

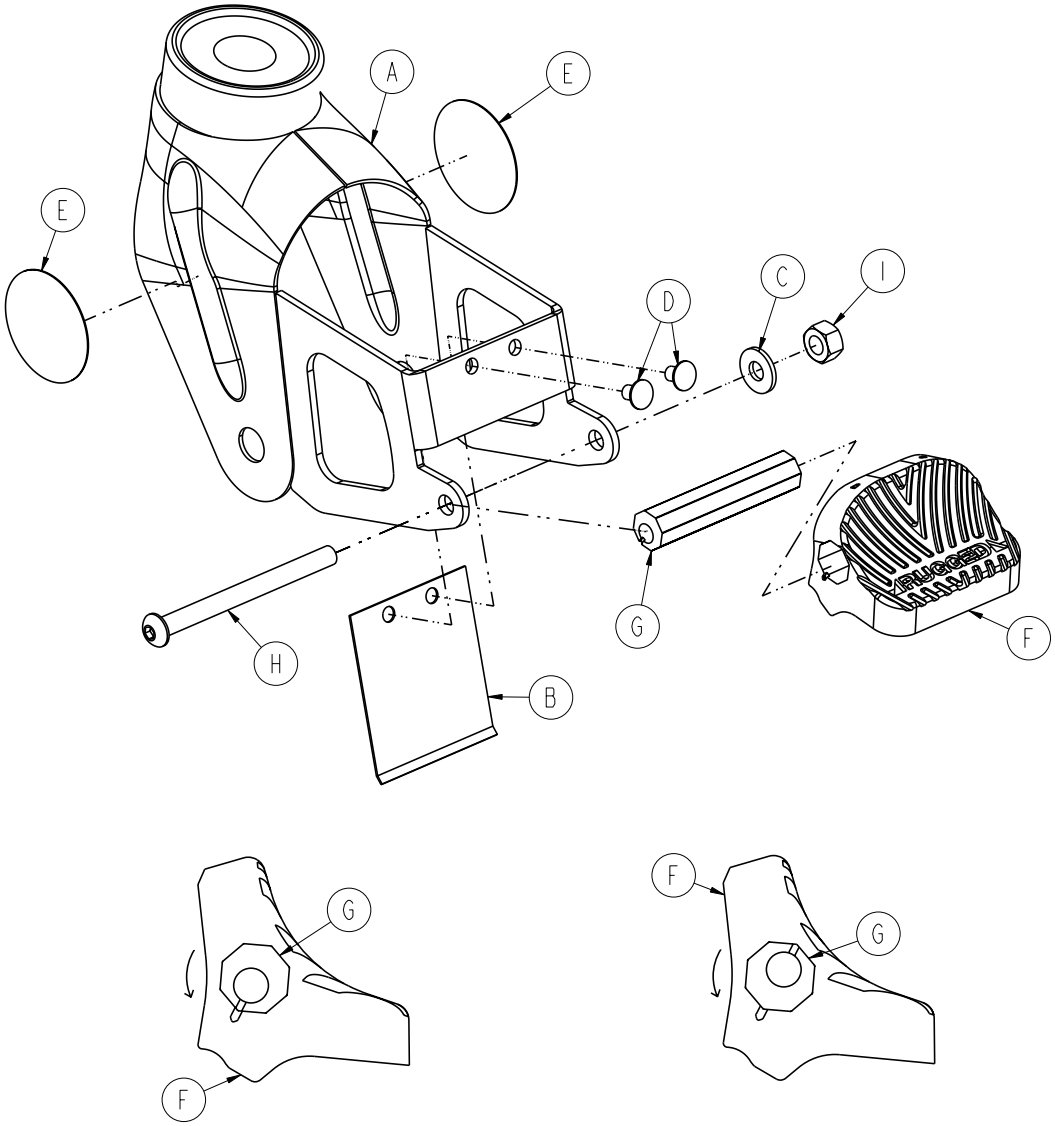


Item	Part No.	Part Name	Qty.
A	6082-002-039	Bearing Retainer	1
B	0081-227-000	Bearing	1
C	6082-002-042	Caster Horn Plate, Left	1
D	6082-002-043	Caster Horn Plate, Right	1

Return To Table of Contents

Adjustable Caster Lock Assembly

6082-200-010 Rev B (Reference Only)

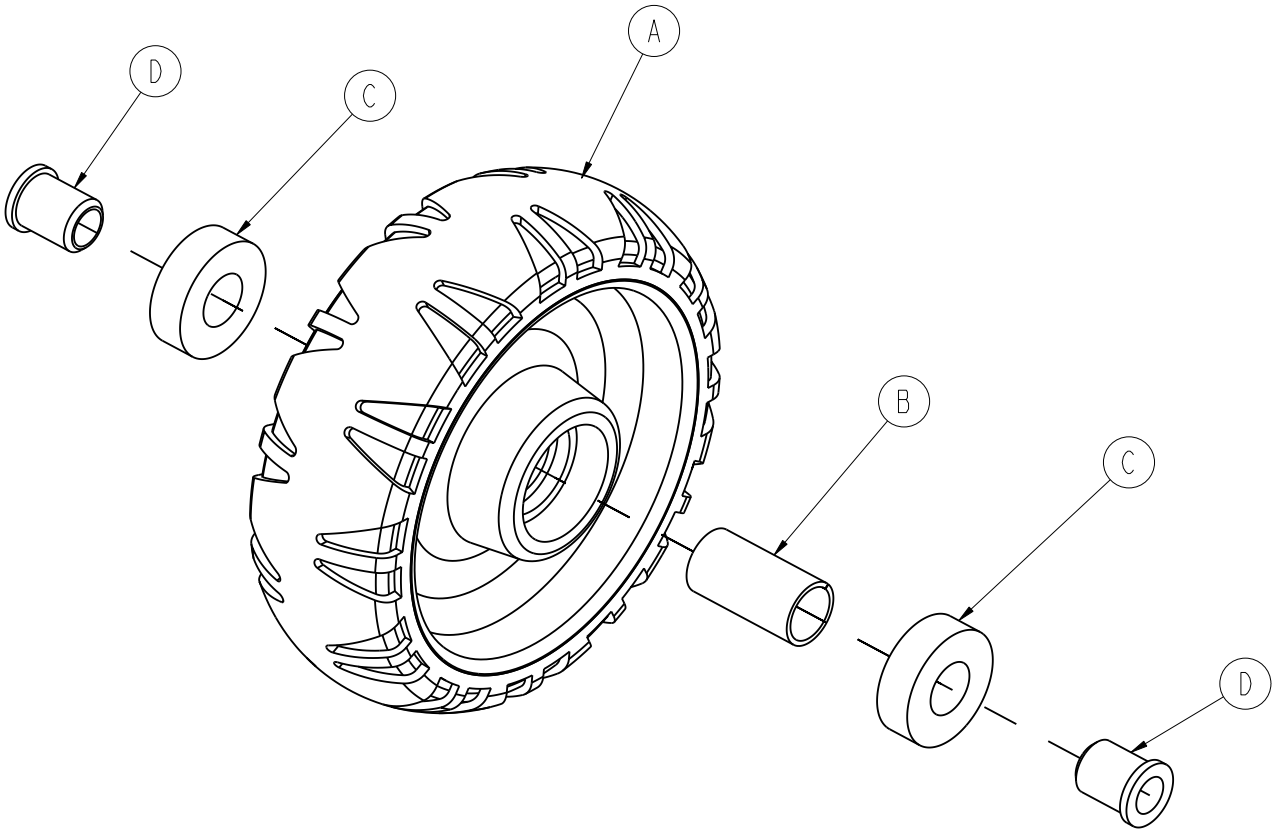


Item	Part No.	Part Name	Qty.
A	6082-100-012	Caster Horn	1
B	6080-100-032	Spring	1
C	0011-456-000	Washer	1
D	0025-153-000	Semi-Tubular Rivet	2
E	6080-090-101	Label, Warning	2
F	6080-300-030	Pedal, Adjustable Caster Lock	1
G	6080-200-041	Octagonal Sleeve, Adj Caster Lock	1
H	0004-098-000	Hex Socket Button Head Cap Screw	1
I	0016-118-000	Centerlock Nut	1

Return To Table of Contents

Wheel Assembly - 6060-002-010

Rev B

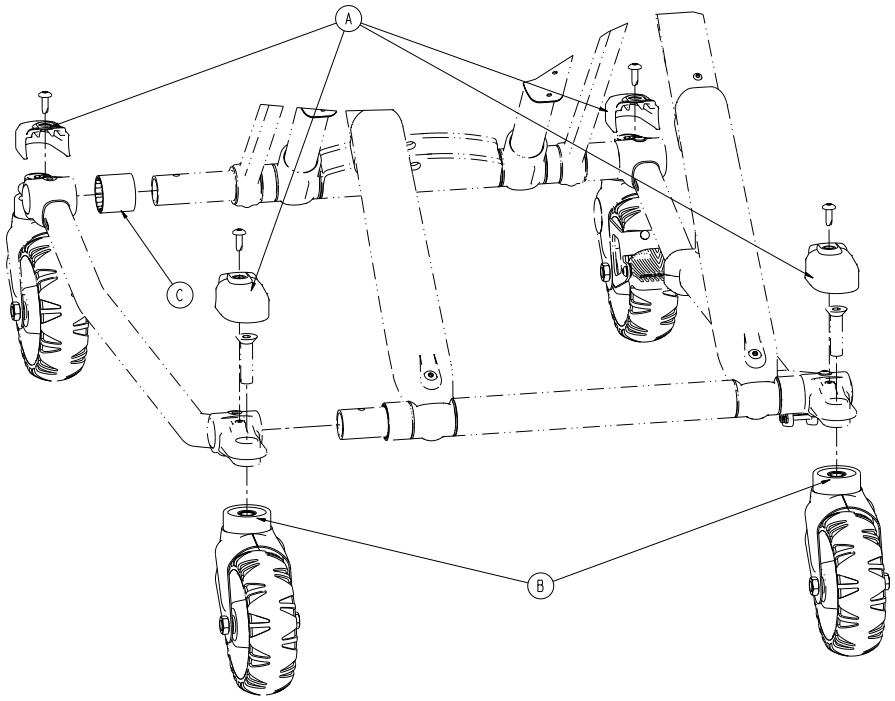


Item	Part No.	Part Name	Qty.
A	6060-002-045	6” Molded Wheel	1
B	6060-002-046	Bearing Spacer	1
C	0081-226-000	Bearing	2
D	0715-001-255	Wheel Bushing	2

Return To Table of Contents

No Steer-Lock Option

6506-037-000 Rev A (Reference Only)

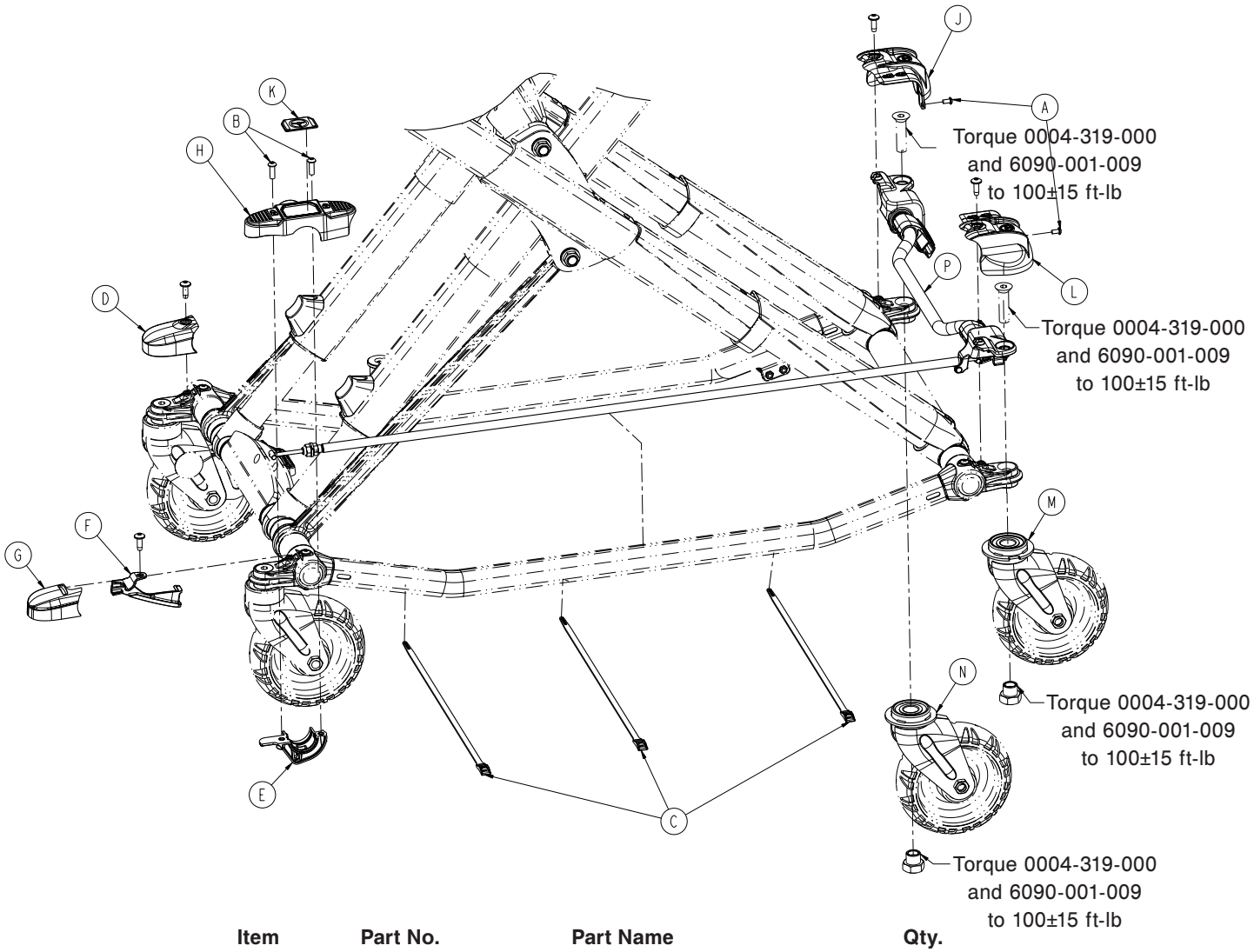


Item	Part No.	Part Name	Qty.
A	6500-001-177	Caster Mount Cover	4
B	6082-002-012	Caster Horn Assembly (page 104)	2
C	6500-001-230	Plastic Extrusion - Spacer	1

Return To Table of Contents

Optional Steer-Lock - 6506-038-000

Rev A

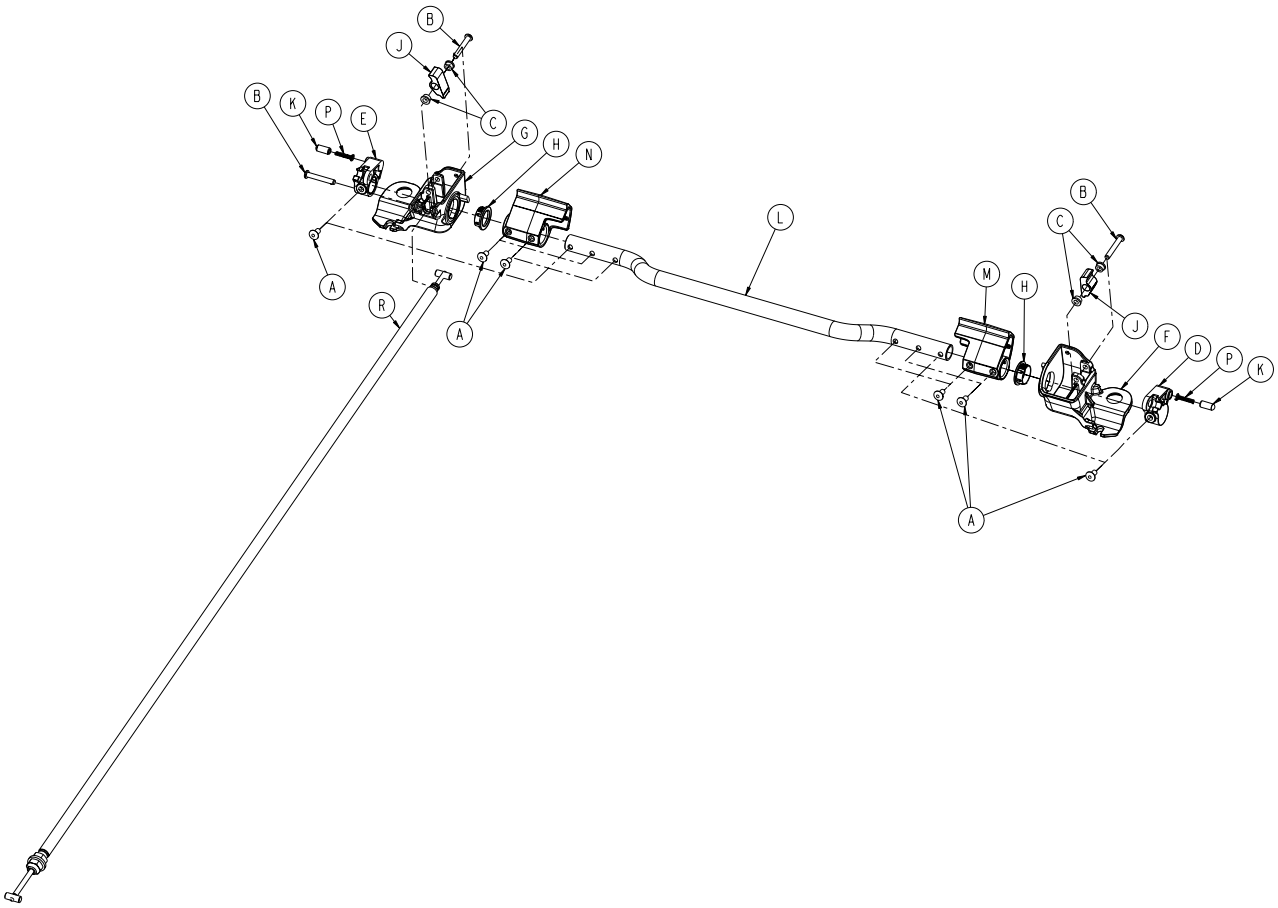


Item	Part No.	Part Name	Qty.
A	0004-587-000	Button Head Cap Screw	2
B	0004-592-000	Button Head Cap Screw	2
C	0059-211-000	Cable Tie	3
D	6500-001-177	Caster Mount Cover	1
E	6500-002-243	Steer-Lock Pedal Collar, Foot End	1
F	6500-002-244	Steer-Lock Cable Support Bracket	1
G	6500-002-245	Caster Mount Cover	1
H	6500-002-246	Steer-Lock Overmolded Pedal, Foot End	1
J	6500-002-247	Steer-Lock Housing Cover, Head End	1
K	6500-002-248	Label, Steer-Lock Pedal, Foot End	1
L	6500-002-249	Steer-Lock Housing Cover, Head End	1
M	6500-002-255	Steer-Lock Caster Horn Weldment, Left	1
N	6500-002-260	Steer-Lock Caster Horn Weldment, Right	1
P	6506-002-265	Steer-Lock Subassembly, Head End (page 109)	1

Return To Table of Contents

Steer-Lock Subassembly, Head End

6506-002-265 Rev A (Reference Only)

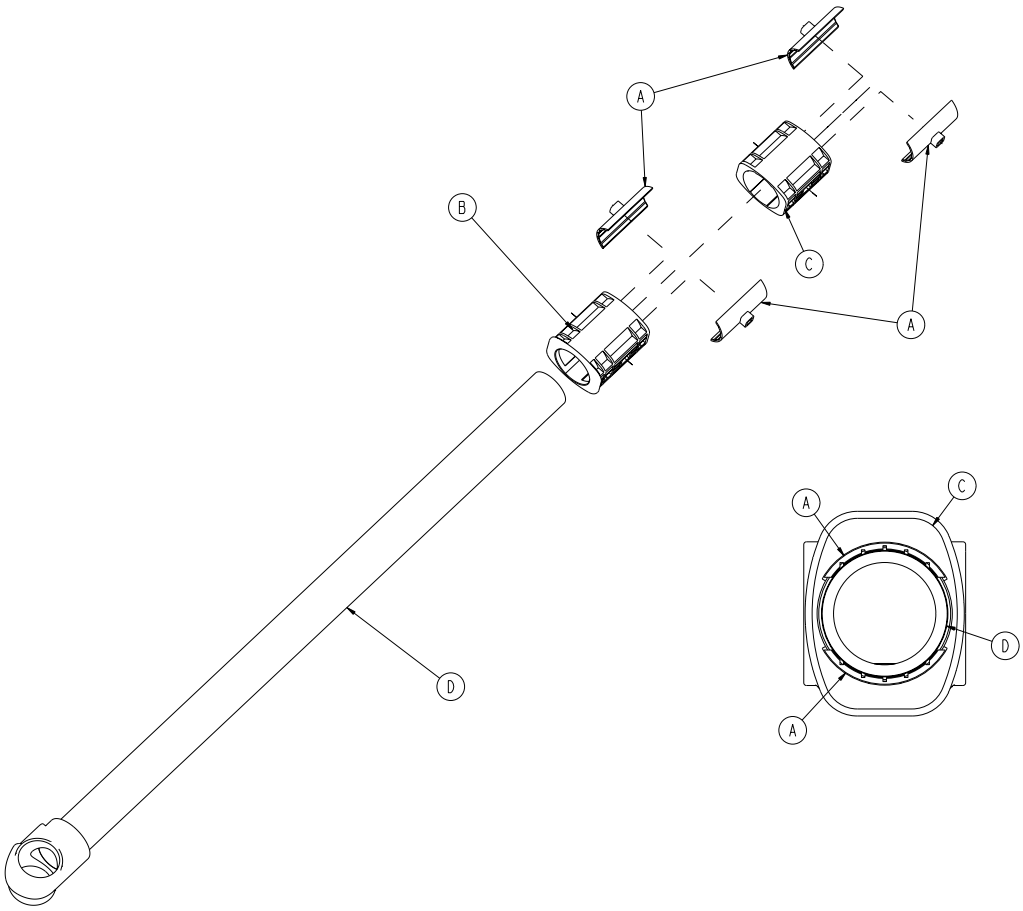


Item	Part No.	Part Name	Qty.
A	0025-079-000	Dome Head Rivet	6
B	0027-036-000	Slic Pin	3
C	0081-347-000	Flange Bearing	4
D	6500-002-230	Steer-Lock Plunger Housing	1
E	6500-002-231	Steer-Lock Plunger Housing	1
F	6500-002-234	Steer-Lock Mechanism Housing	1
G	6500-002-235	Steer-Lock Mechanism Housing	1
H	6500-002-236	Steer-Lock Custom Flange Bushing	2
J	6500-002-237	Steer-Lock Lock Pawl	2
K	6500-002-238	Steer-Lock Plunger Button	2
L	6500-002-240	Steer-Lock Cross Tube	1
M	6500-002-241	Steer-Lock Pedal, Head End	1
N	6500-002-251	Steer-Lock Pedal, Head End	1
P	6500-002-252	Compression Spring	2
R	6500-002-250	Steer-Lock Push-Pull Flex Rod Assembly	1

Return To Table of Contents

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

Rev A

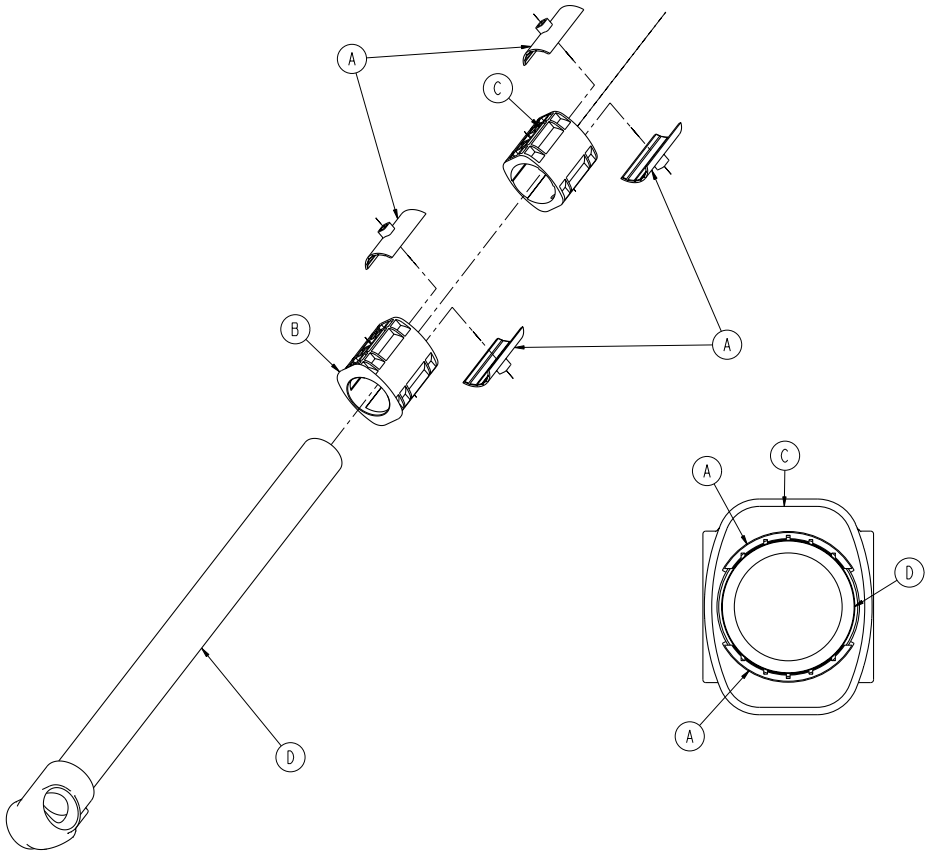


Item	Part No.	Part Name	Qty.
A	6500-001-327	Half Shell Bearing	4
B	6500-001-328	Bearing Carrier, Lower	1
C	6500-001-329	Bearing Carrier, Middle	1
D	6500-301-050	Outer Lift Tube Weldment	1

Return To Table of Contents

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

Rev B



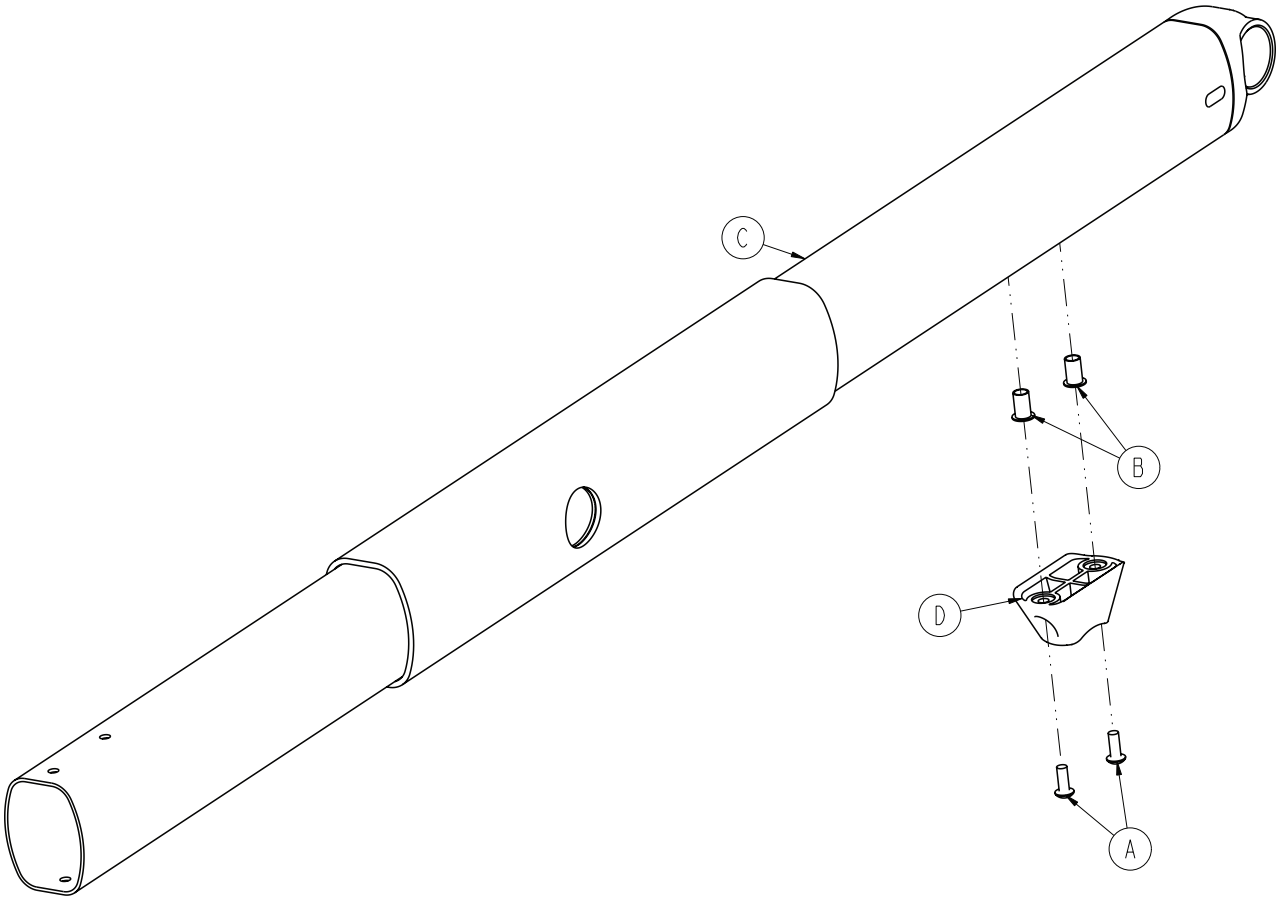
Item	Part No.	Part Name	Qty.
A	6500-001-327	Half Shell Bearing	4
B	6500-001-328	Bearing Carrier, Lower	1
C	6500-001-329	Bearing Carrier, Middle	1
D	6500-301-051	Lift Tube Weldment, Base Pivot	1

Return To Table of Contents

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

Patient Right Assembly

Rev F



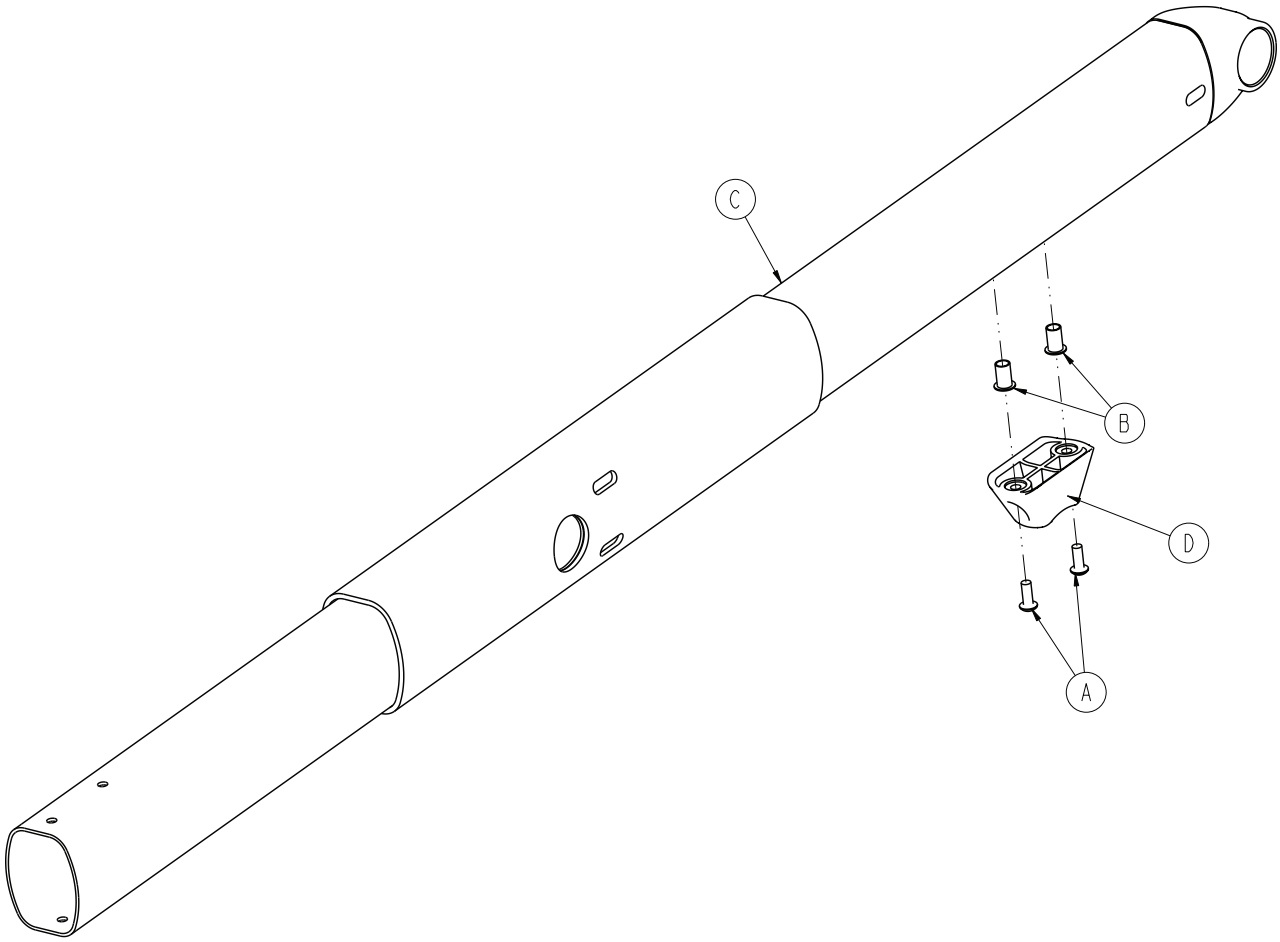
Item	Part No.	Part Name	Qty.
A	0004-634-000	Button Head Cap Screw	2
B	0055-100-075	Nut	2
C	6500-001-355	Inner Lift Tube Weldment	1
D	6500-001-125	Dead Stop	1

Return To Table of Contents

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

Patient Left Assembly

Rev F

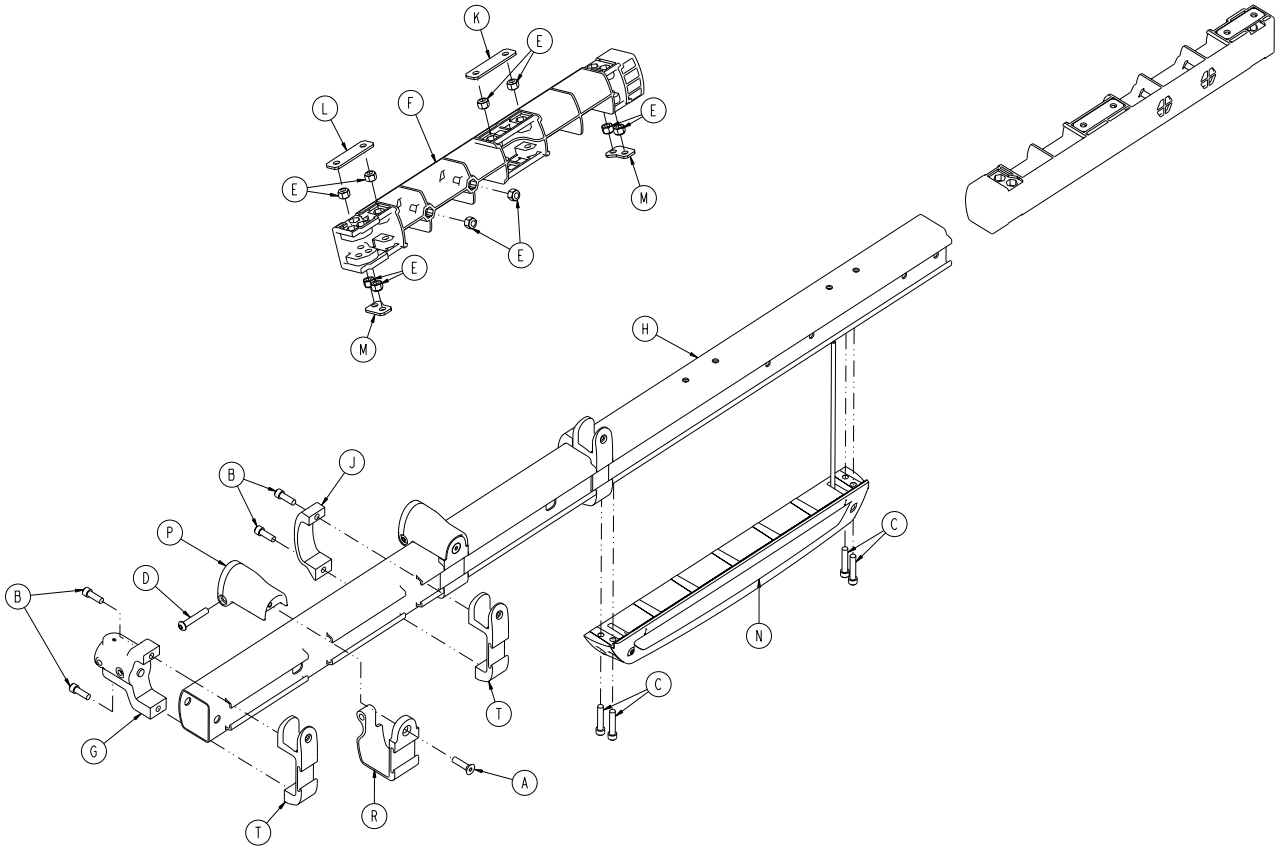


Item	Part No.	Part Name	Qty.
A	0004-634-000	Button Head Cap Screw	2
B	0055-100-075	Nut	2
C	6500-301-053	Inner Lift Tube Weldment	1
D	6500-001-125	Dead Stop	1

Return To Table of Contents

Outer Rail Subassembly, Right

6516-001-027 Rev B (Reference Only)

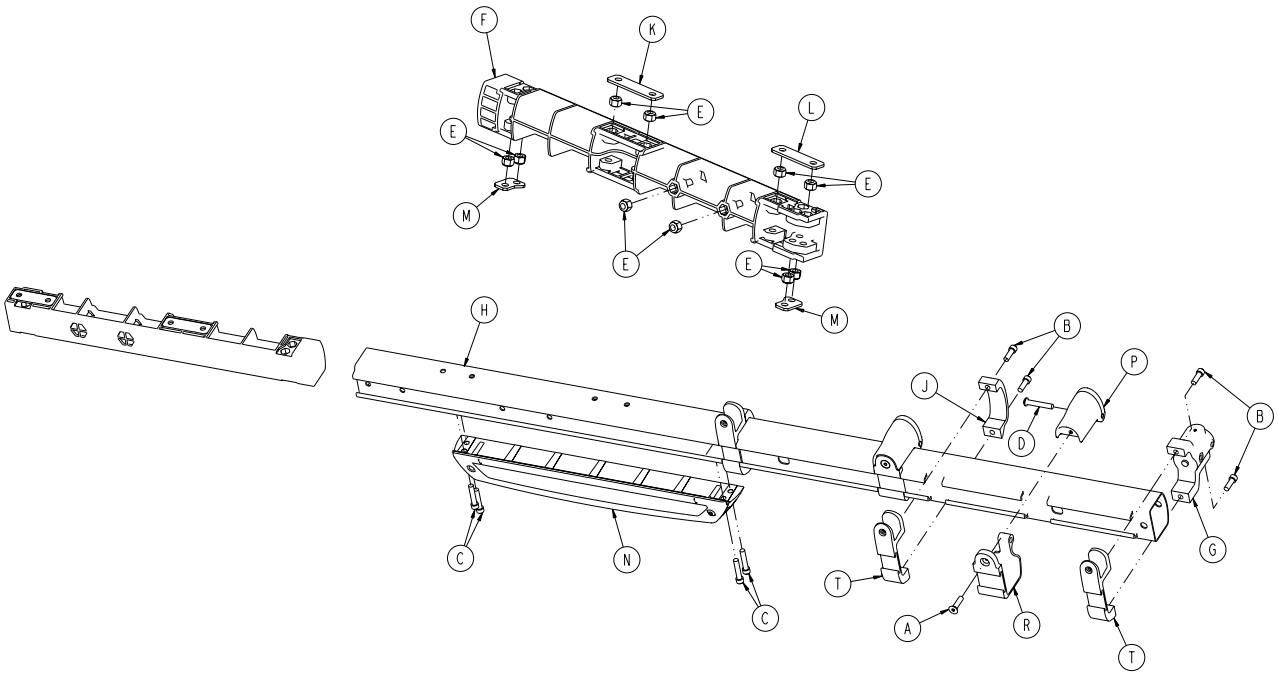


Item	Part No.	Part Name	Qty.
A	0001-004-011	Flat Head Cap Screw	2
B	0004-591-000	Socket Head Cap Screw	6
C	0004-613-000	Socket Head Cap Screw	4
D	0004-848-000	Button Head Cap Screw	2
E	0016-028-000	Fiberlock Hex Nut	10
F	6500-001-098	Dead Stop, Litter, Internal	1
G	6500-001-102	Base/Litter Interface Bracket	1
H	6500-001-114	Outer Rail Extrusion	1
J	6500-001-117	Siderail Clamp	2
K	6500-001-243	I.V. Pole Backer Plate	1
L	6500-001-244	I.V. Clip Backer Plate	1
M	6500-001-245	Sensor Housing Backer Plate	2
N	6500-002-028	Hall Sensor Assembly (page 116)	1
P	6500-002-130	Litter Support Bracket	2
R	6500-002-131	Inner Litter Support Bracket	2
T	6510-001-115	Siderail Bracket	3

Return To Table of Contents

Outer Rail Subassembly, Left

6516-001-028 Rev B (Reference Only)

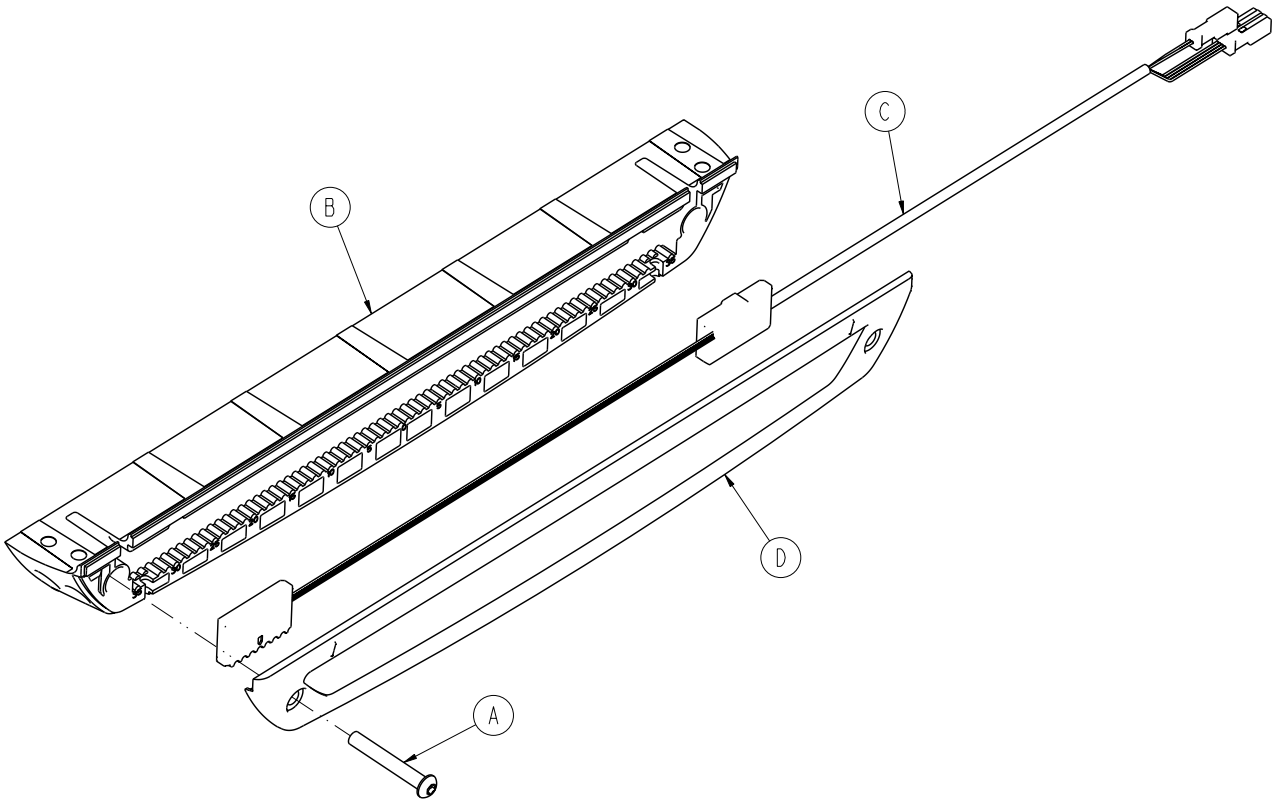


Item	Part No.	Part Name	Qty.
A	0001-004-011	Flat Head Cap Screw	2
B	0004-591-000	Socket Head Cap Screw	6
C	0004-613-000	Socket Head Cap Screw	4
D	0004-848-000	Button Head Cap Screw	2
E	0016-028-000	Fiberlock Hex Nut	10
F	6500-001-098	Dead Stop, Litter, Internal	1
G	6500-001-102	Base/Litter Interface Bracket	1
H	6500-001-115	Outer Rail Extrusion	1
J	6500-001-117	Siderail Clamp	2
K	6500-001-243	I.V. Pole Backer Plate	1
L	6500-001-244	I.V. Clip Backer Plate	1
M	6500-001-245	Sensor Housing Backer Plate	2
N	6500-002-029	Empty Sensor Housing (page 117)	1
P	6500-002-130	Litter Support Bracket	2
R	6500-002-131	Inner Litter Support Bracket	2
T	6510-001-115	Siderail Bracket	3

Return To Table of Contents

Hall Sensor Assembly

6500-002-028 Rev A (Reference Only)

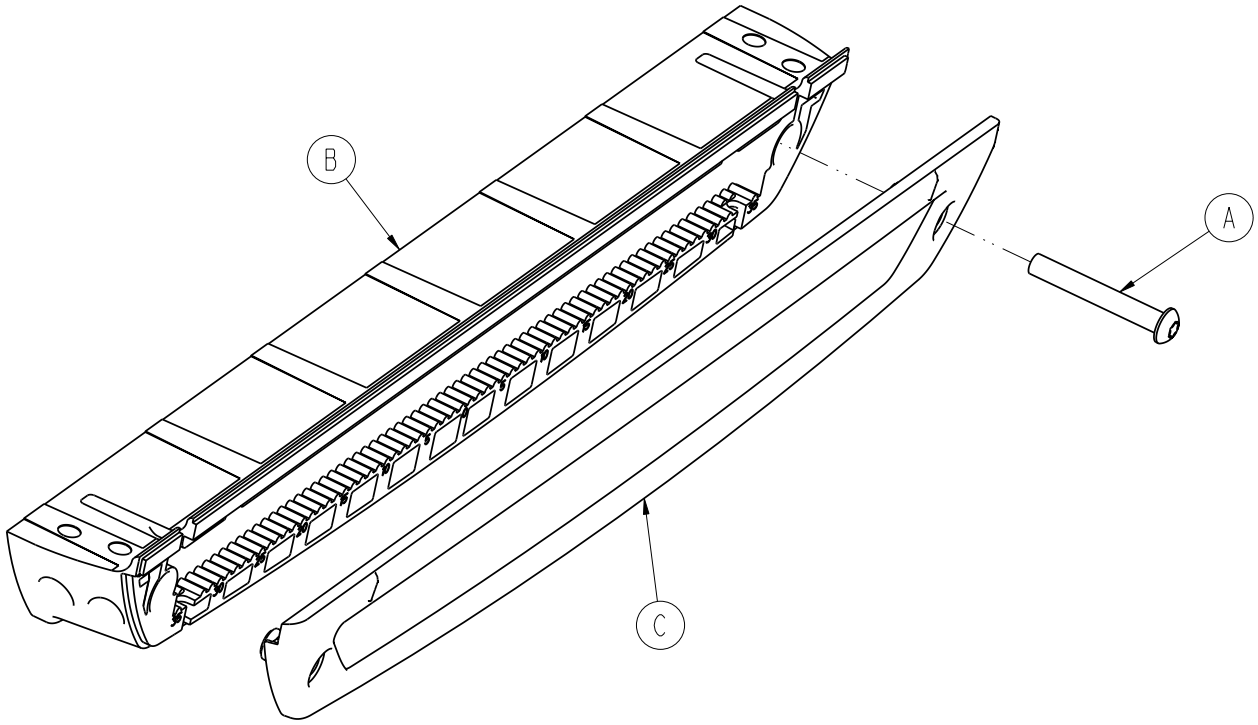


Item	Part No.	Part Name	Qty.
A	0004-596-000	Button Head Cap Screw	1
B	6500-001-124	Sensor Housing	1
C	6500-001-160	Hall Effects Sensor	1
D	6500-001-199	Sensor Housing Cover	1

Return To Table of Contents

Sensor Housing Assembly

6500-002-029 Rev A (Reference Only)

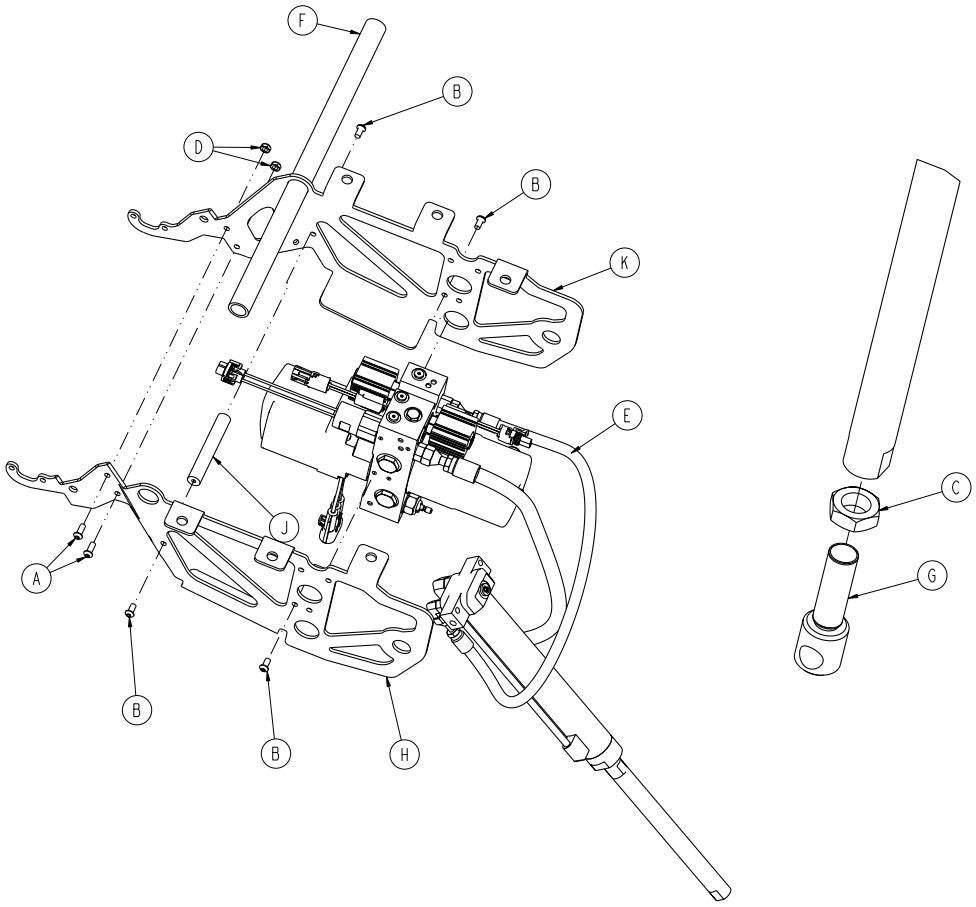


Item	Part No.	Part Name	Qty.
A	0004-596-000	Button Head Cap Screw	1
B	6500-001-124	Sensor Housing	1
C	6500-001-199	Sensor Housing Cover	1

Return To Table of Contents

Powerplant Assembly

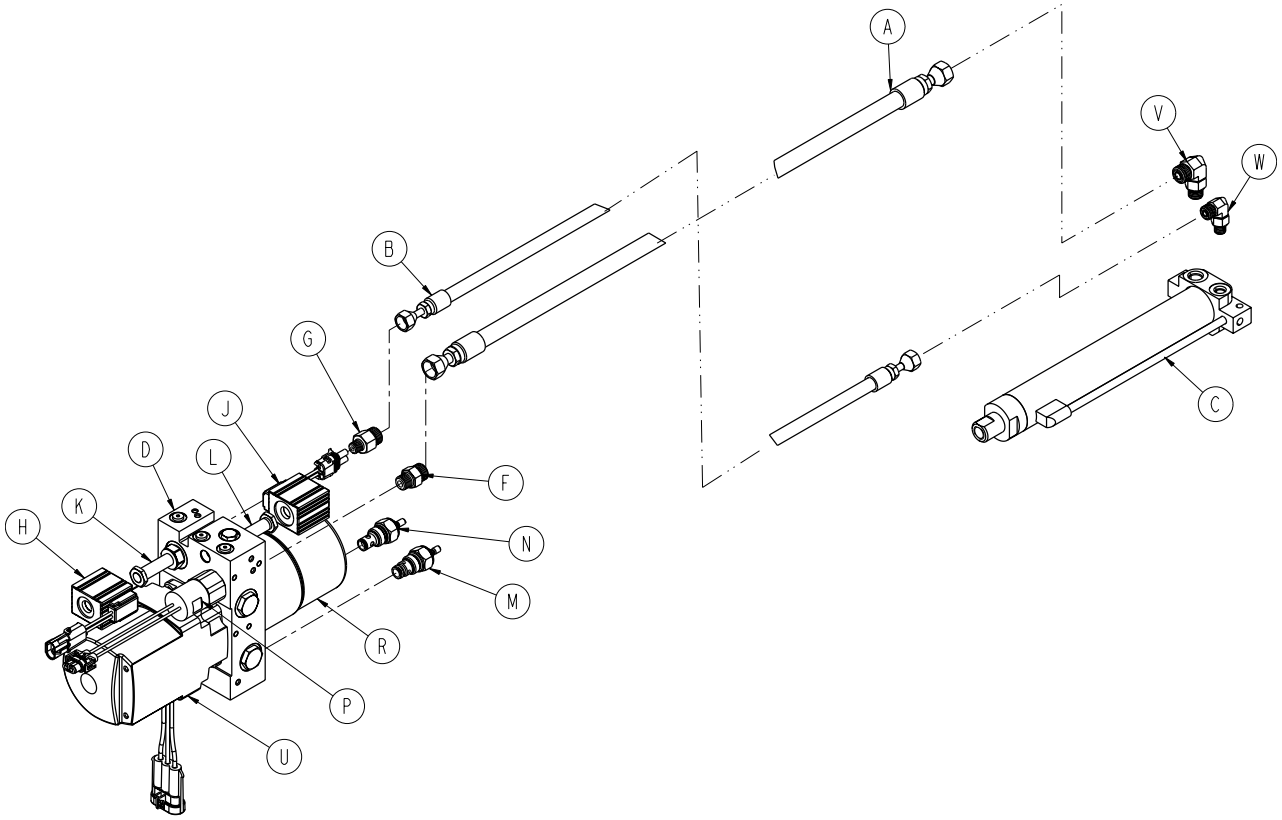
6516-001-014 Rev B (Reference Only)



Item	Part No.	Part Name	Qty.
A	0004-577-000	Button Head Cap Screw	2
B	0004-589-000	Button Head Cap Screw	4
C	0015-052-000	Hex Jam Nut	1
D	0016-102-000	Nylock Hex Nut	2
E	6500-001-030	Hydraulics (page 119)	1
F	6500-001-105	Litter Support Cross Tube	1
G	6500-001-169	Rod End, Cylinder	1
H	6500-002-194	Motor Mount	1
J	6500-001-212	Motor Mount Cross Bar	1
K	6500-002-294	Motor Mount	1

Return To Table of Contents

Hydraulic Subassembly - 6500-001-030

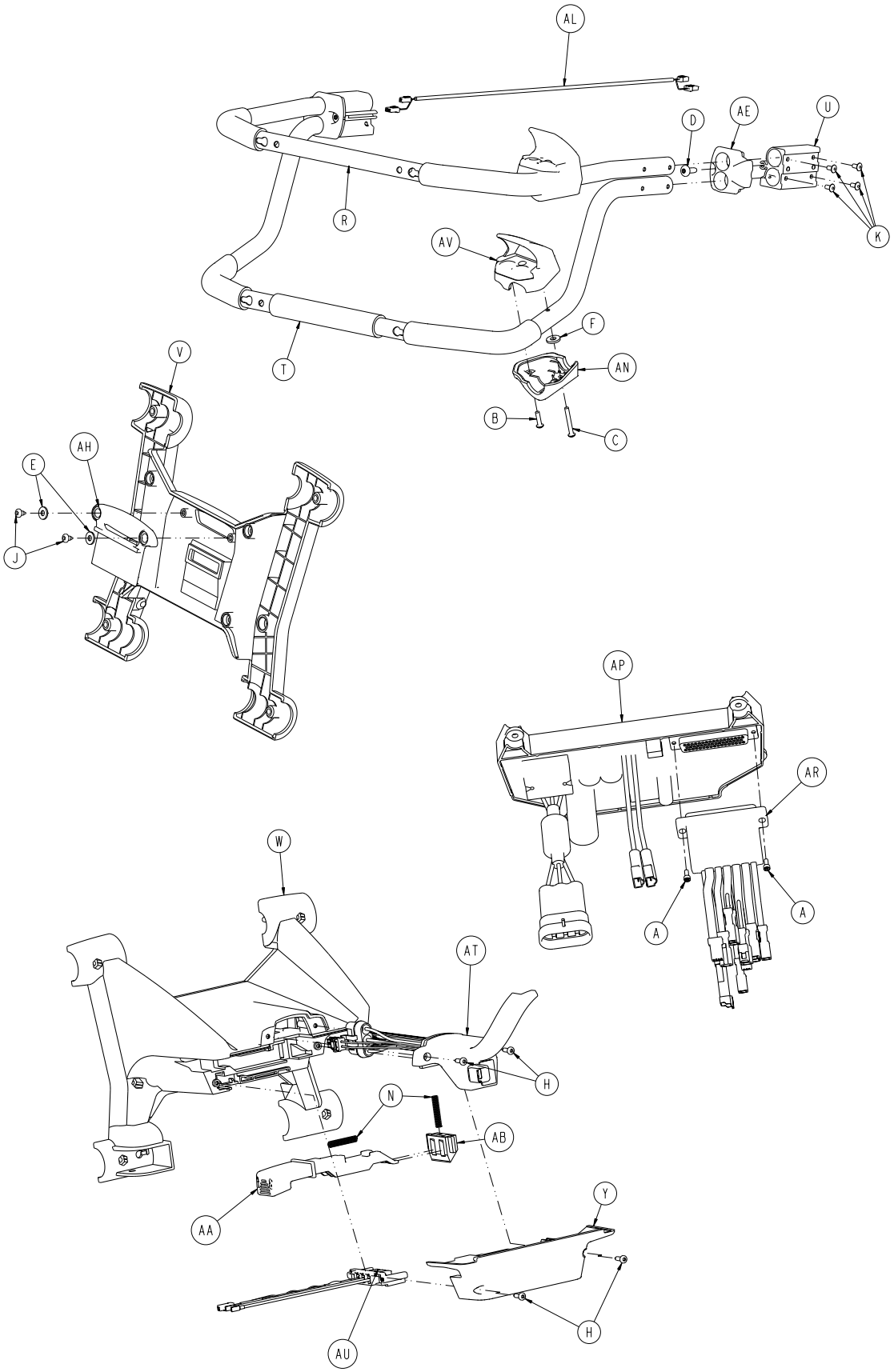


Item	Part No.	Part Name	Qty.
A	6500-001-210	Cap Side Hose	1
B	6500-001-211	Rod Side Hose	1
C	6500-001-213	Cylinder	1
D	6500-001-214	Manifold Assembly	1
E	6500-001-270	Pressure Compensated Flow Control	1
F	6500-001-282	Manifold Cap Side Hose Fitting	1
G	6500-001-283	Manifold Rod Side Hose Fitting	1
H	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

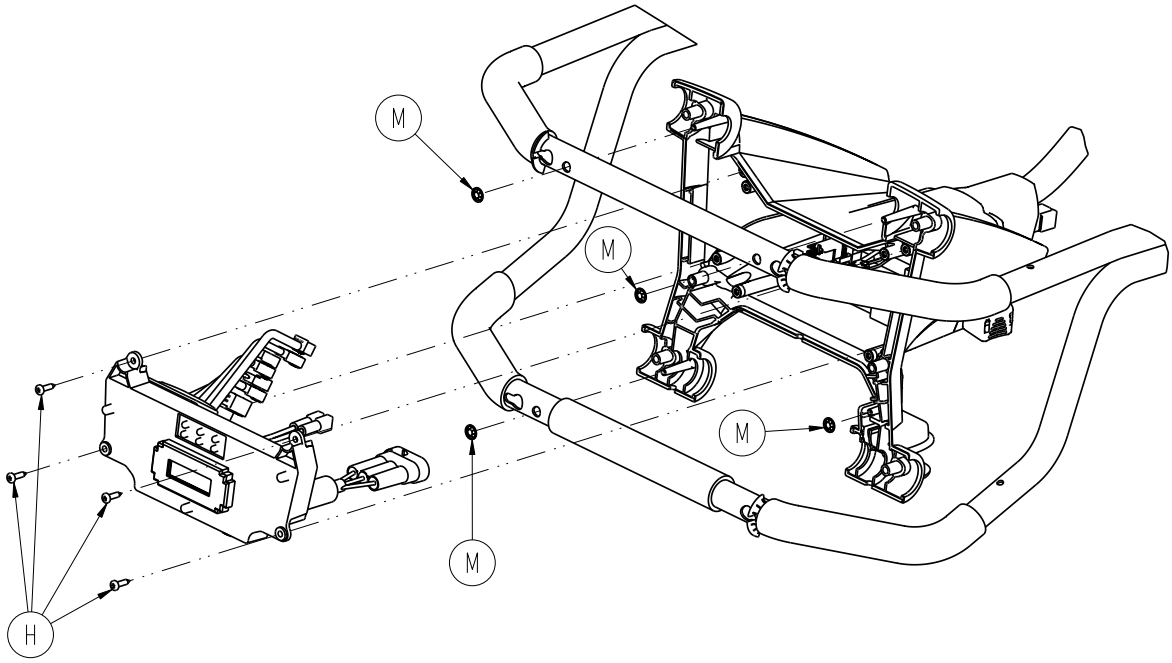
Foot End Assembly

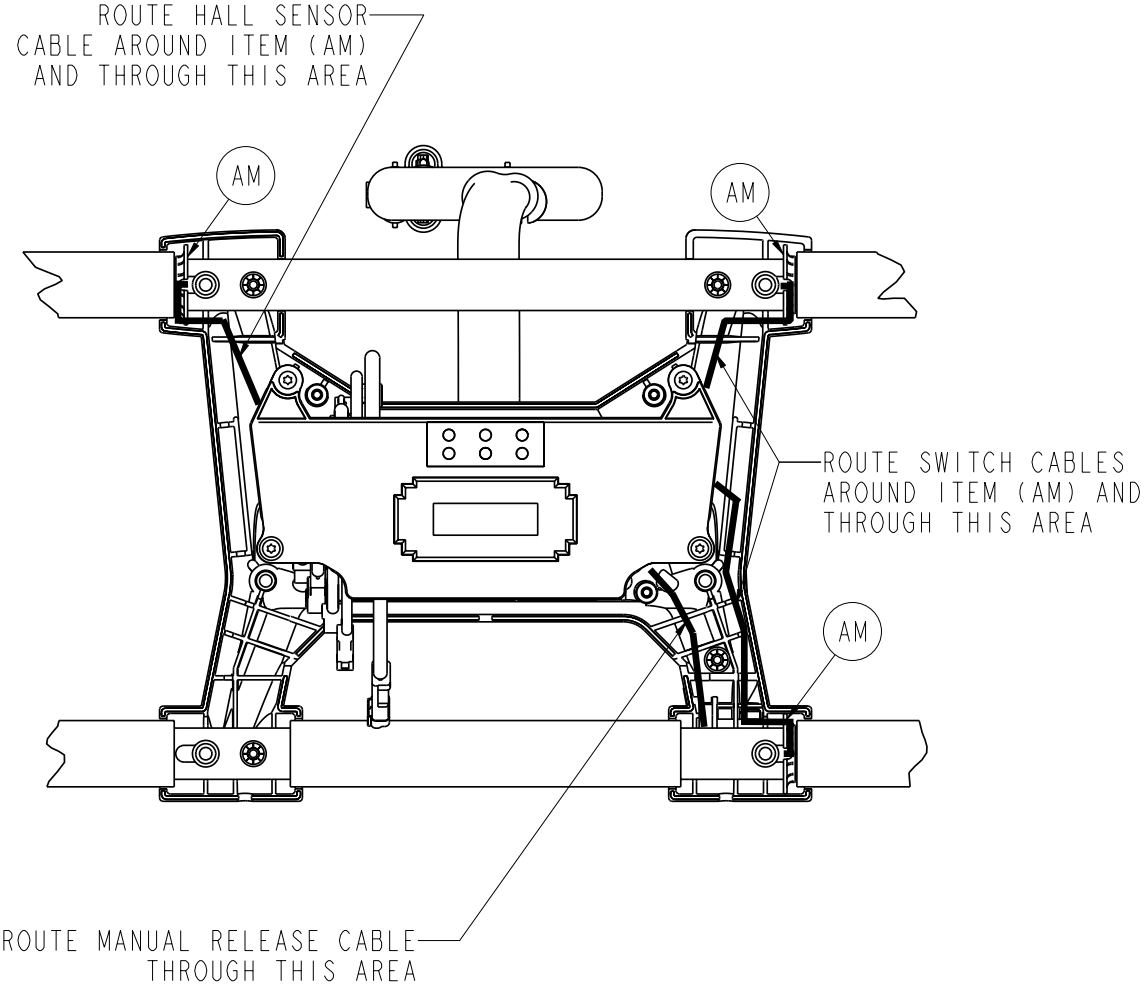
6500-002-015 Rev D (Reference Only)



Return To Table of Contents

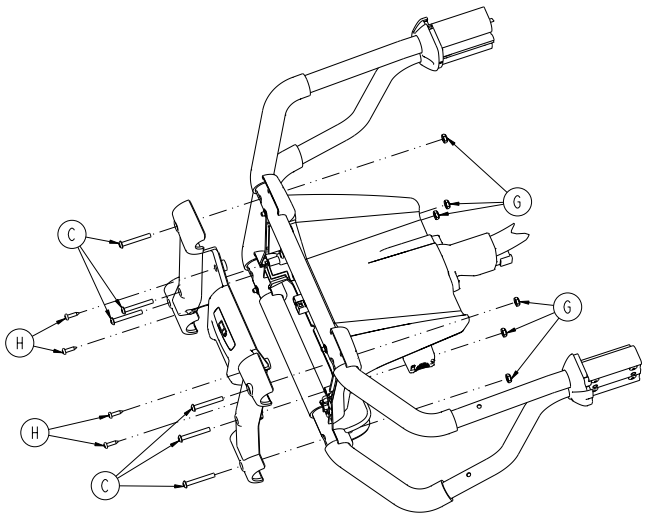
Foot End Assembly

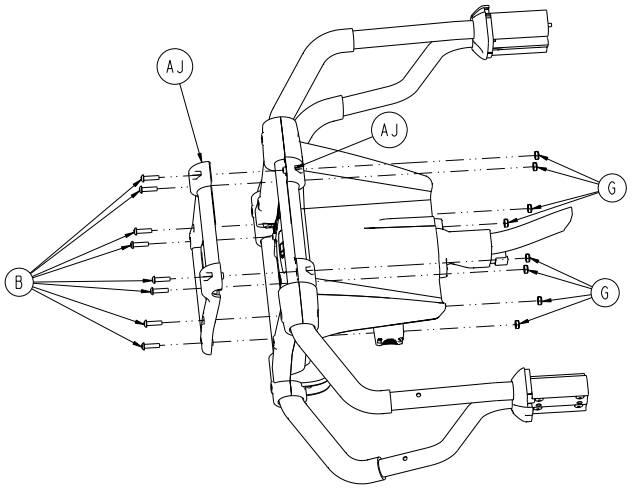


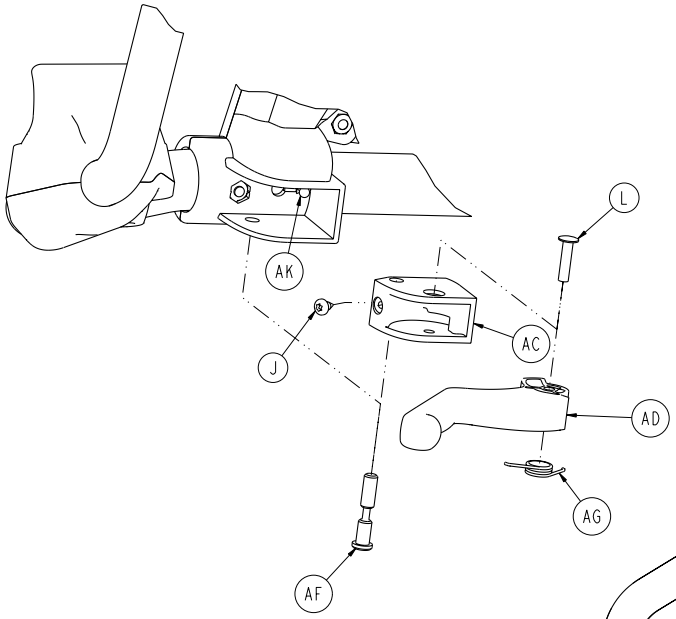


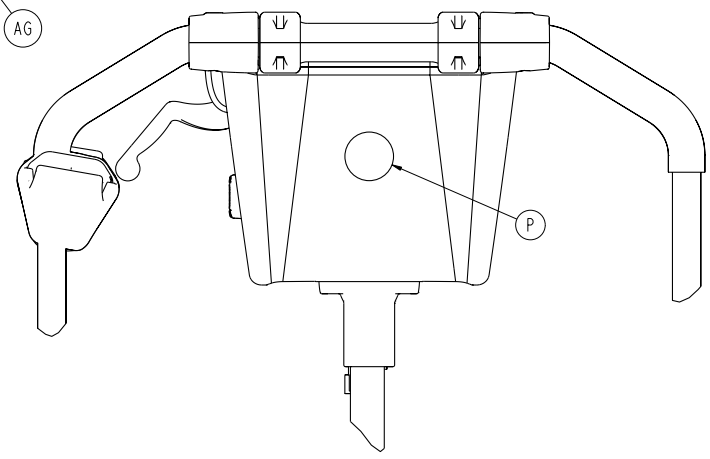
Return To Table of Contents

Foot End Assembly









Return To Table of Contents

Foot End Assembly

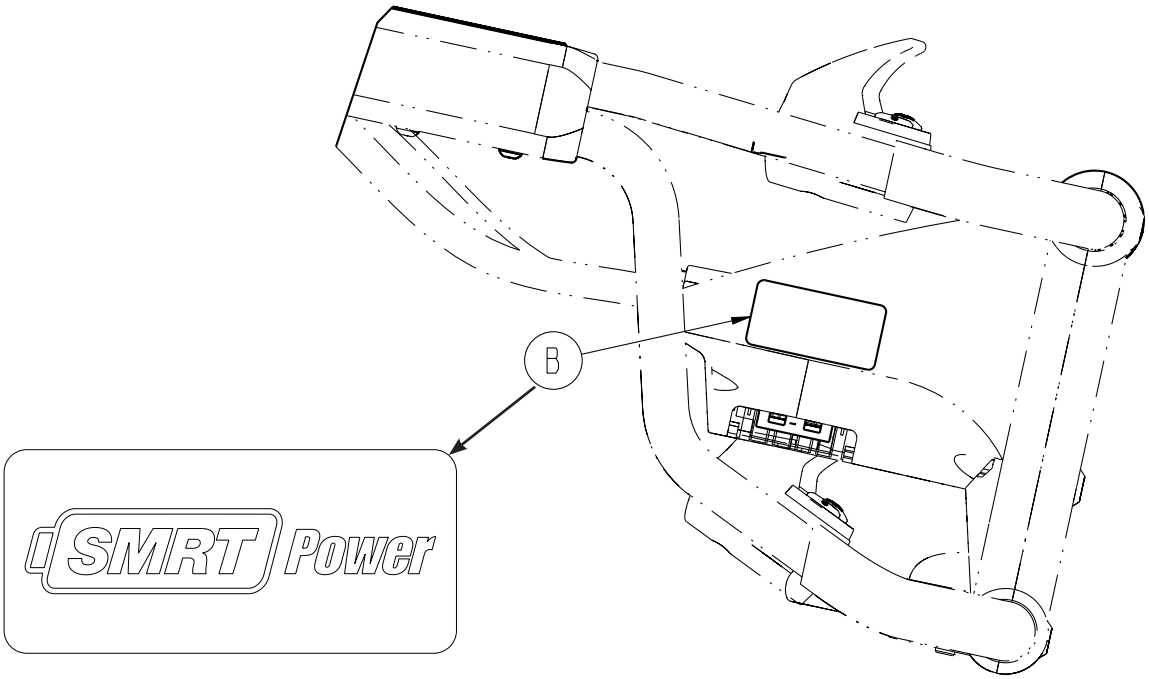
Foot End Assembly - 6500-002-015 Rev D (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-874-000	Socket Head Cap Screw	2
B	0004-614-000	Button Head Cap Screw	10
C	0004-615-000	Button Head Cap Screw	8
D	0007-086-000	Truss Head Screw	2
E	0011-062-000	Washer	2
F	0011-543-000	Washer	2
G	0016-131-000	Nylock Hex Nut	14
H	0023-162-000	Screw	12
J	0023-163-000	Screw	3
K	0025-079-000	Dome Head Rivet	8
L	0025-113-000	Semi-Tubular Rivet	1
M	0028-116-000	Pushnut	4
N	0038-572-000	Compression Spring	2
P	6080-090-101	Label, Brake Warning	1
R	6500-001-131	Upper Lifting Bar	1
T	6500-001-132	Lower Lift Bar	1
U	6500-001-133	Machined Extruded Bracket	2
V	6500-001-134	Battery Enclosure Face Plate	1
W	6500-001-135	Foot End Enclosure Top Plate	1
Y	6500-001-136	Foot End Enclosure Bottom Plate	1
AA	6500-001-138	Battery Release Button	1
AB	6500-001-139	Battery Release Lock	1
AC	6500-001-140	Manual Release Actuator Pivot	1
AD	6500-001-141	Manual Release Actuator Lever	1
AE	6500-001-144	Transition Cap	2
AF	6500-001-146	Manual Release Pivot Pin	1
AG	6500-001-147	Single Spring	1
AH	6500-001-153	Light Panel ORB	1
AJ	6500-001-154	Pull Handle, Outside	2
AK	6500-001-156	Manual Release Cable Assembly	1
AL	6500-001-161	Hall Effects Cable	1
AM	6500-001-275	Wire Route Clip	3
AN	6500-001-358	Lower Housing Button, Foot End	2
AP	6500-002-014	Control Board	1
AR	6500-002-103	Cot Dongle	1
AT	6500-002-159	Cable Assembly	1
AU	6500-002-216	Cot Connector Cable Assembly	1
AV	6500-101-016	Button Assembly (page 126)	2

Return To Table of Contents

Label, SMRT Power

6500-027-000 Rev B (Reference Only)
6500-028-000 Rev B (Reference Only)

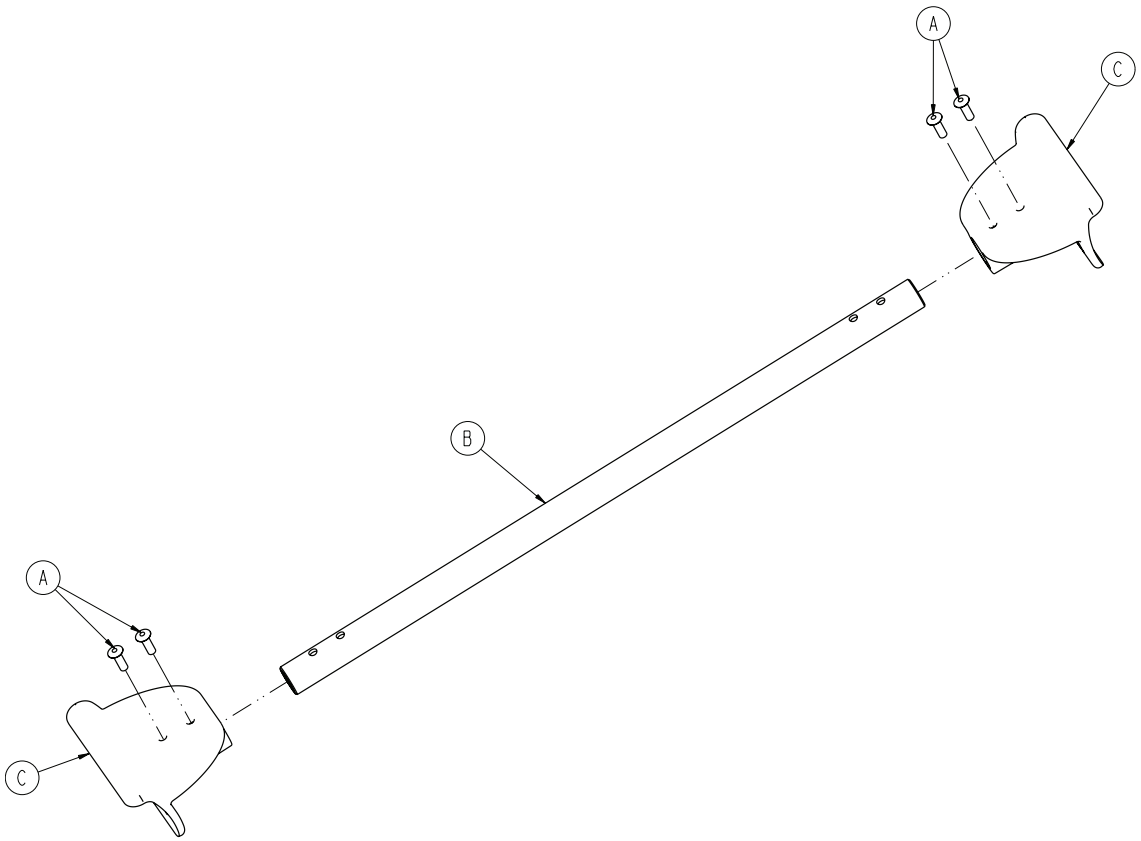


Item	Part No.	Part Name	Qty.
B	6500-001-356	Label, SMRT Power	1

Return To Table of Contents

Cross Brace Assembly

6510-001-013 Rev A (Reference Only)

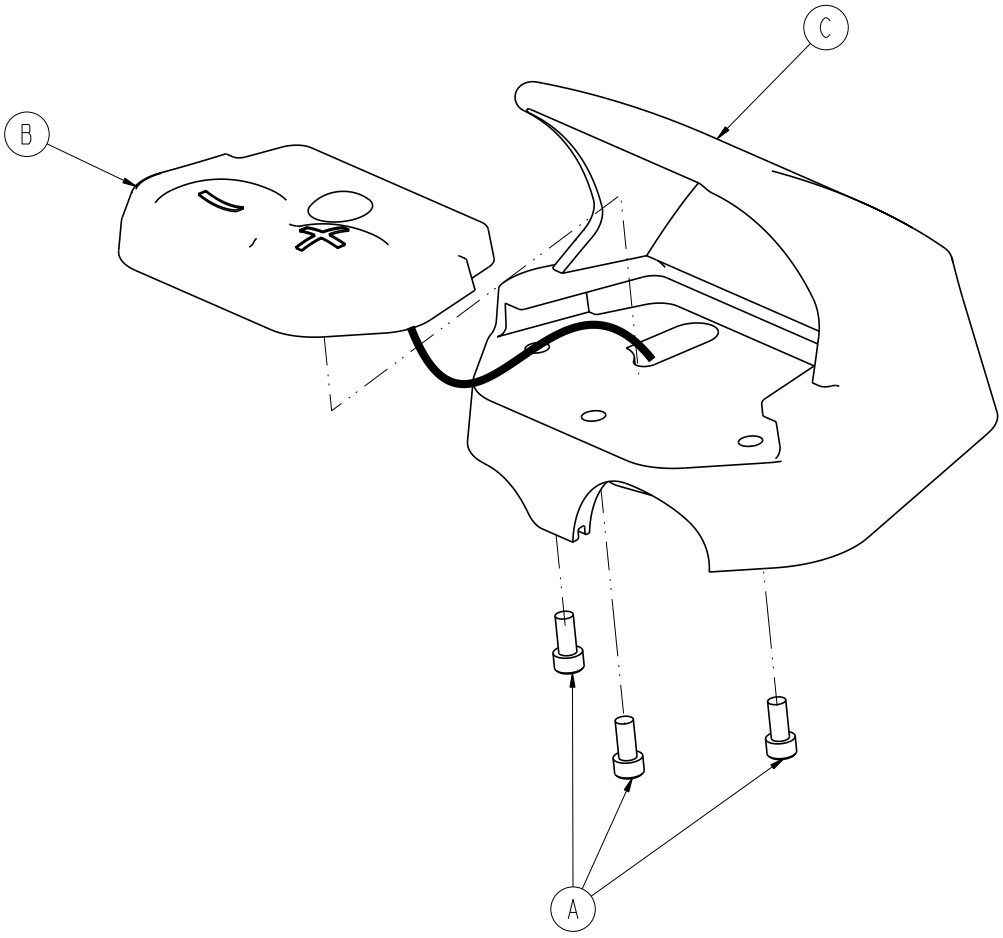


Item	Part No.	Part Name	Qty.
A	0025-133-000	Rivet	4
B	6500-001-107	Litter Cross Brace	1
C	6500-001-109	Trend Support Bracket	2

Return To Table of Contents

Button Assembly - 6500-101-016

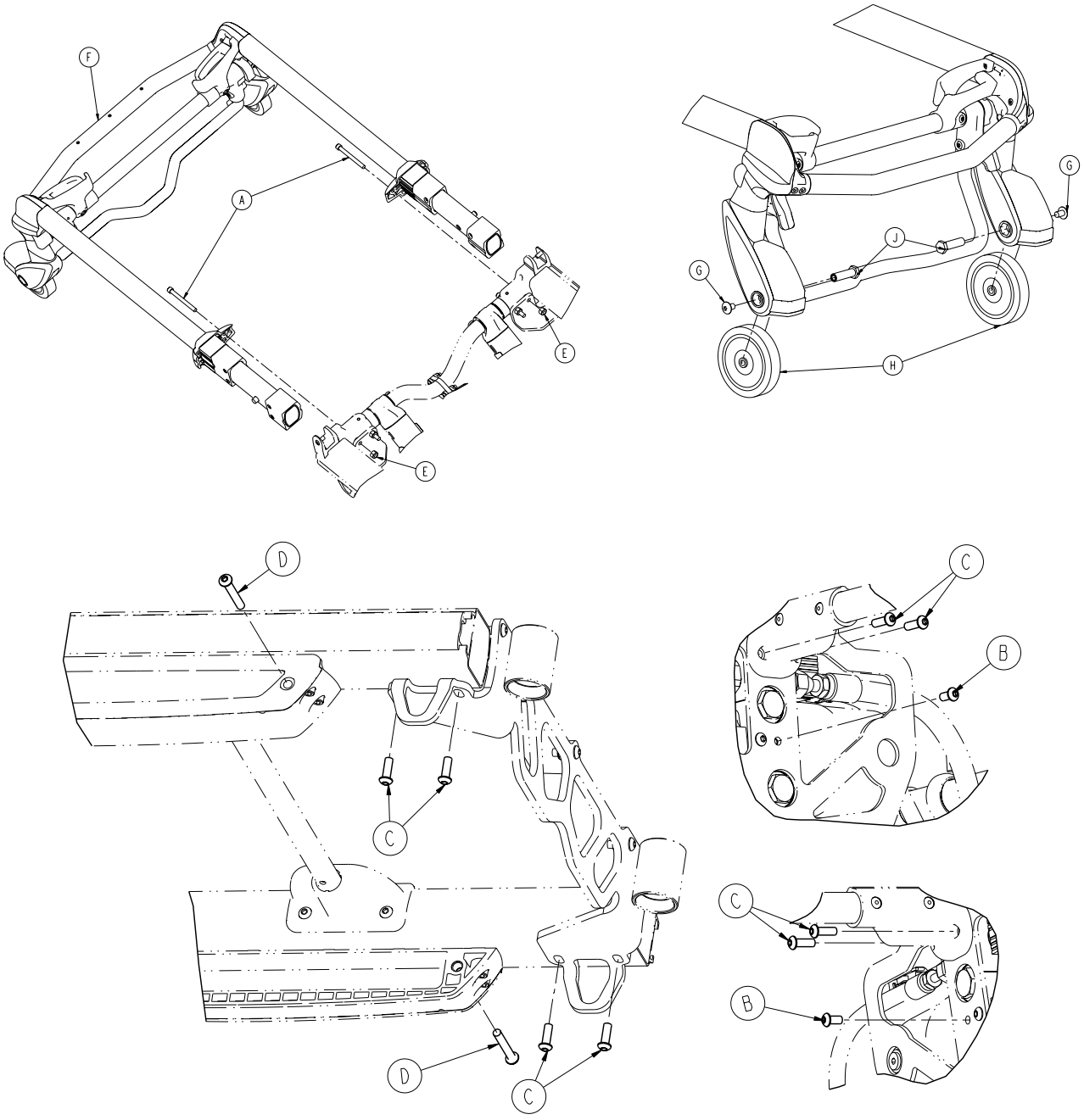
Rev C



Item	Part No.	Part Name	Qty.
A	37J102-1	Socket Head Cap Screw	3
B	6500-101-130	Switch	1
C	6500-001-359	Button Upper Housing, Foot End	1

Return To Table of Contents

6516-043-000 Rev B (Reference Only)

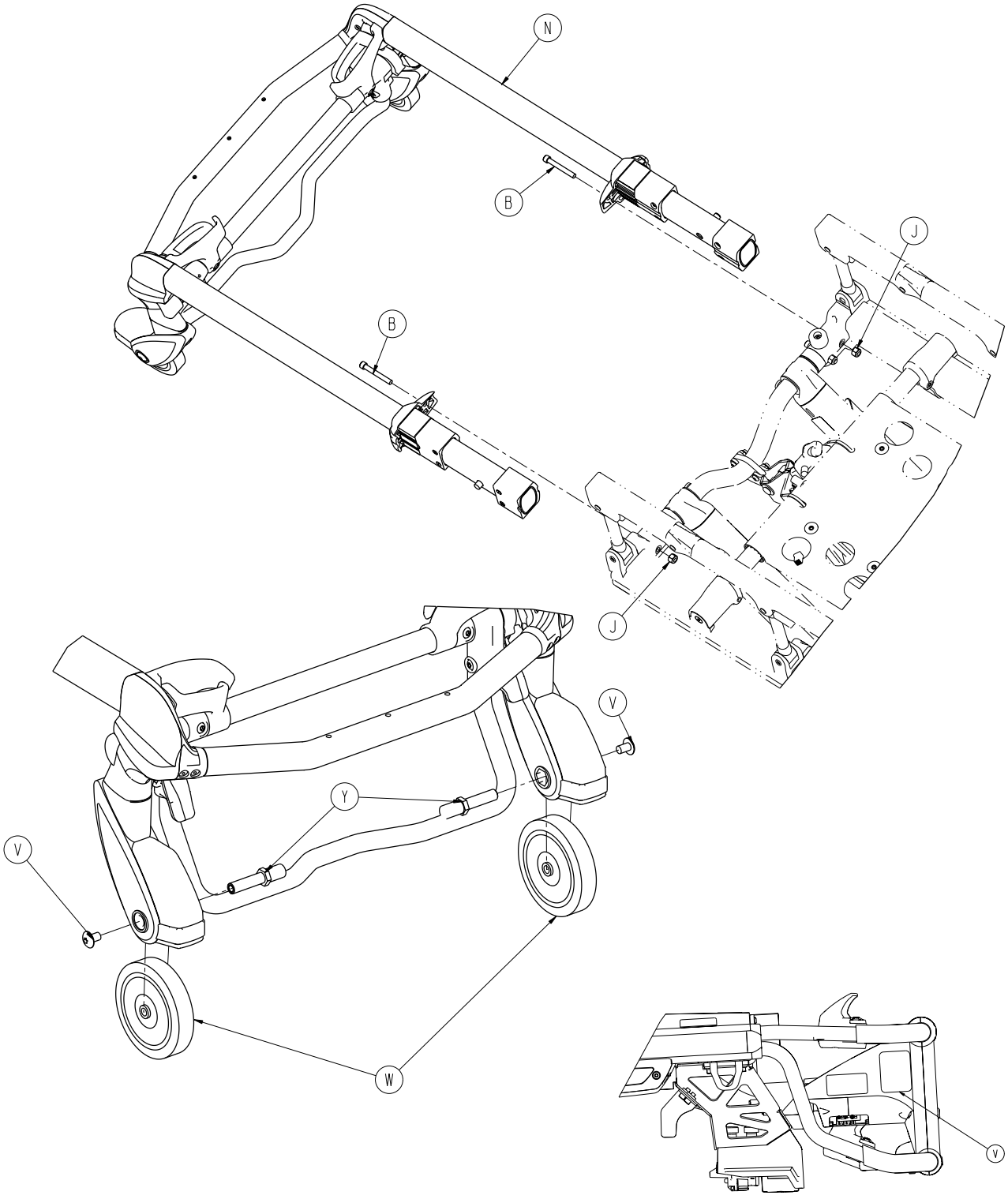


Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	6
B	0004-593-000	Button Head Cap Screw	4
C	0004-595-000	Socket Head Cap Screw	2
D	0004-596-000	Button Head Cap Screw	2
E	0016-028-000	Fiberlock Hex Nut	2
H	6500-002-020	Headsection (page 130)	1
J	0007-556-000	Truss Head Machine Screw	2
K	6500-001-086	Front Wheel	2
L	6500-002-106	Load Wheel Spacer	2

Return To Table of Contents

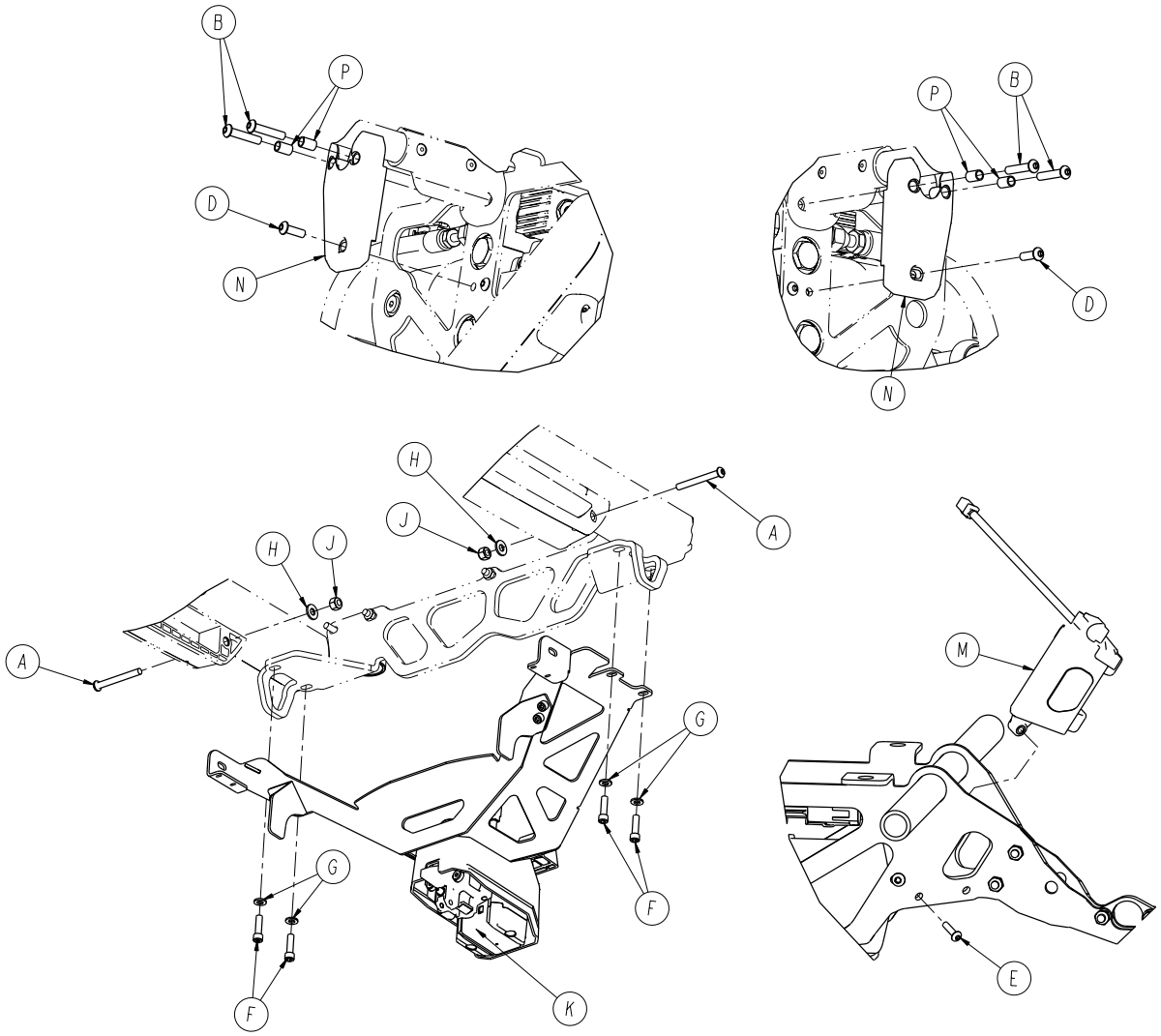
Power-LOAD Compatible Option - 6516-044-000

Rev C



Return To Table of Contents

Power-LOAD Compatible Option - 6516-044-000

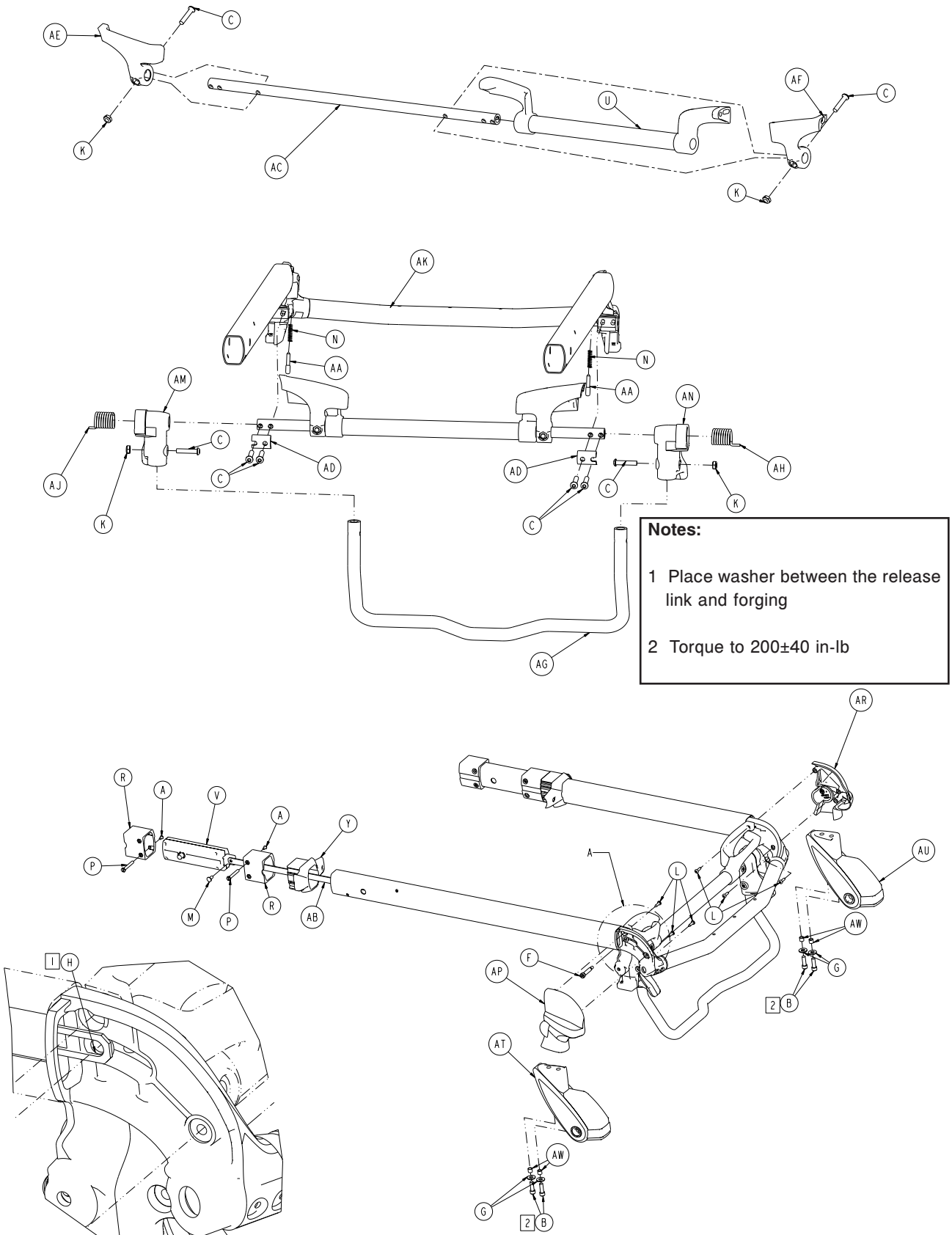


Item	Part No.	Part Name	Qty.
A	0004-387-000	Button Head Cap Screw	2
B	0004-395-000	Button Head Cap Screw	4
C	0004-517-000	Socket Head Cap Screw	2
D	0004-593-000	Button Head Cap Screw	2
E	0004-614-000	Button Head Cap Screw	1
F	0004-661-000	Socket Head Cap Screw	4
G	0011-065-000	Washer	4
H	0011-077-000	Washer	2
J	0016-028-000	Fiberlock Hex Nut	4
K	6500-002-013	Foot End Fastener Assy (page 135)	1
L	6500-002-020	Headsection (page 130)	1
M	6500-002-100	Comm Board Cot	1
N	6500-002-123	Cot Arm Spacer	2
P	6500-002-124	Sleeve Spacer	4
R	0007-556-000	Truss Head Machine Screw	2
T	6500-001-086	Front Wheel	2
U	6500-002-104	Load Wheel Pin	2
V	6516-001-101	Label, FCC	1

Return To Table of Contents

Headsection - 6500-002-020

Rev D



Notes:

1 Place washer between the release link and forging

2 Torque to 200±40 in-lb

Return To Table of Contents

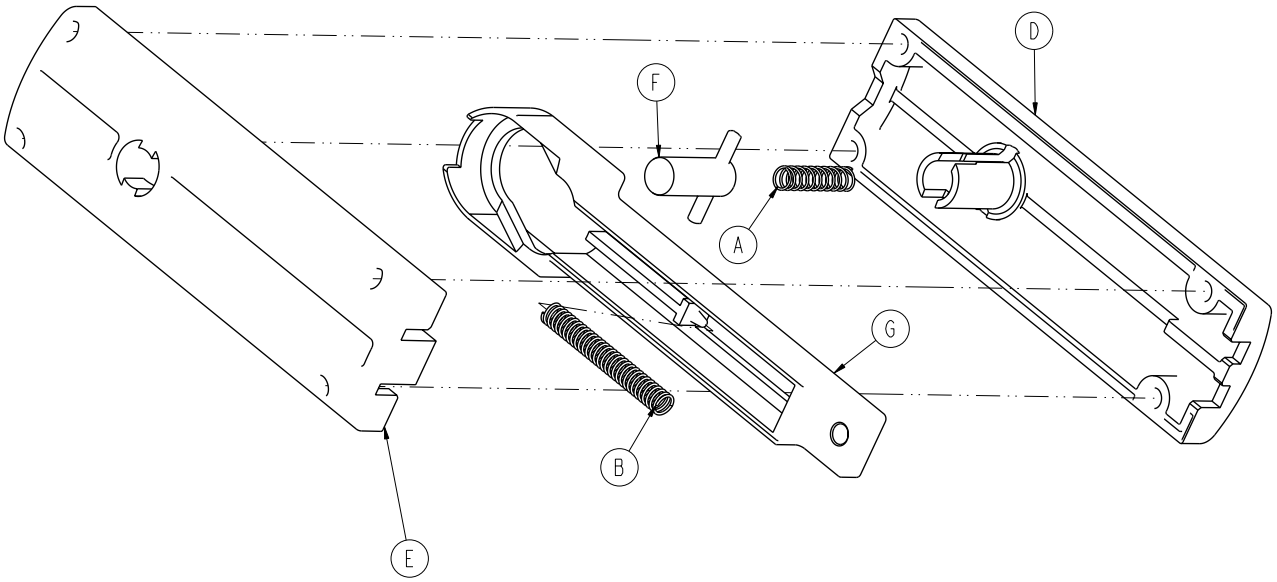
Headsection - 6500-002-020

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
F	0008-030-000	Socket Head Shoulder Screw	2
G	0011-624-000	Washer	4
H	0014-002-000	Washer	2
K	0016-102-000	Nylock Hex Nut	4
L	0023-162-000	Delta Screw	6
M	0025-126-000	Semi-Tubular Rivet	2
N	0038-570-000	Compression Spring	2
P	6085-001-169	Headsection Nut	4
R	6085-001-170	Internal Bearing	4
U	6500-001-023	Head Trigger Assembly	1
V	6500-001-026	Head Section Lock Assy (page 132)	2
Y	6500-001-087	Cap Bearing	2
AA	6500-001-093	Safety Bar Lock Pin	2
AB	6500-001-096	Head Section Release Link	2
AC	6500-001-220	Head Section Pivot Cross Tube	1
AD	6500-001-221	Cross Tube Clamp	2
AE	6500-001-280	Head Section Guard, Right	1
AF	6500-001-281	Head Section Guard, Left	1
AG	6500-001-322	Sliding Head Section Safety Bar	1
AH	6500-001-325	Safety Bar Torsion Spring, Left	1
AJ	6500-001-326	Safety Bar Torsion Spring, Right	1
AK	6500-002-025	Telescoping Tube Assembly	1
AM	6500-002-107	Safety Bar Pivot, Right	1
AN	6500-002-108	Safety Bar Pivot, Left	1
AP	6500-002-109	Load Wheel Horn Cover, Left	1
AR	6500-002-110	Load Wheel Horn Cover, Right	1
AT	6500-002-120	Load Wheel Horn, Left	1
AU	6500-002-121	Load Wheel Horn, Right	1
AW	6500-002-114	Compression Limiter Sleeve	4

Return To Table of Contents

Head Section Lock Assembly - 6500-001-026

Rev C

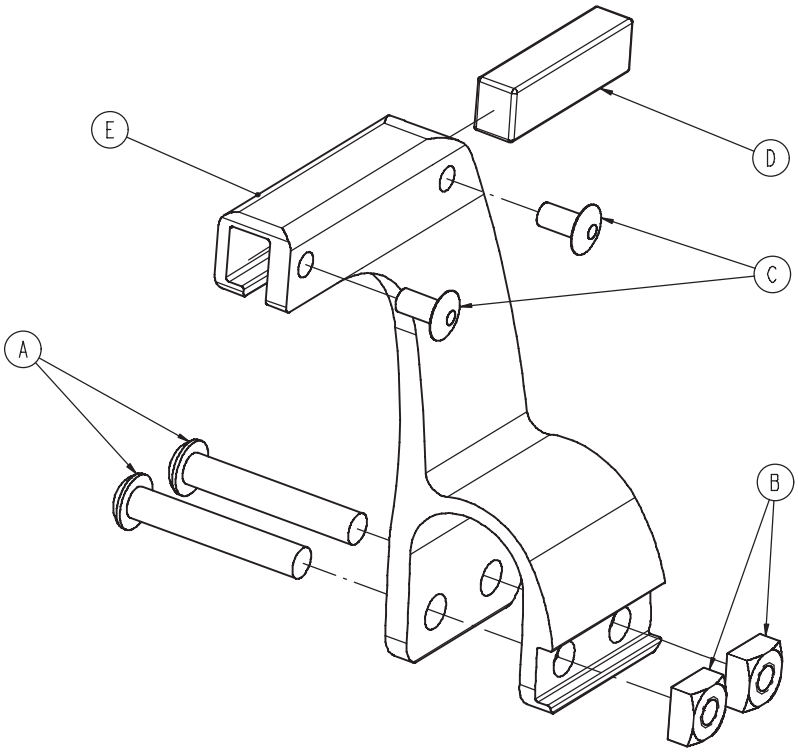


Item	Part No.	Part Name	Qty.
A	0038-570-000	Compression Spring	1
B	0038-134-000	Compression Spring	1
D	6500-001-091	Top Latch Housing	1
E	6500-001-092	Bottom Latch Housing	1
F	6500-001-025	Latch Assembly	1
G	6500-001-095	Actuation Slide	1

Return To Table of Contents

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

Rev C

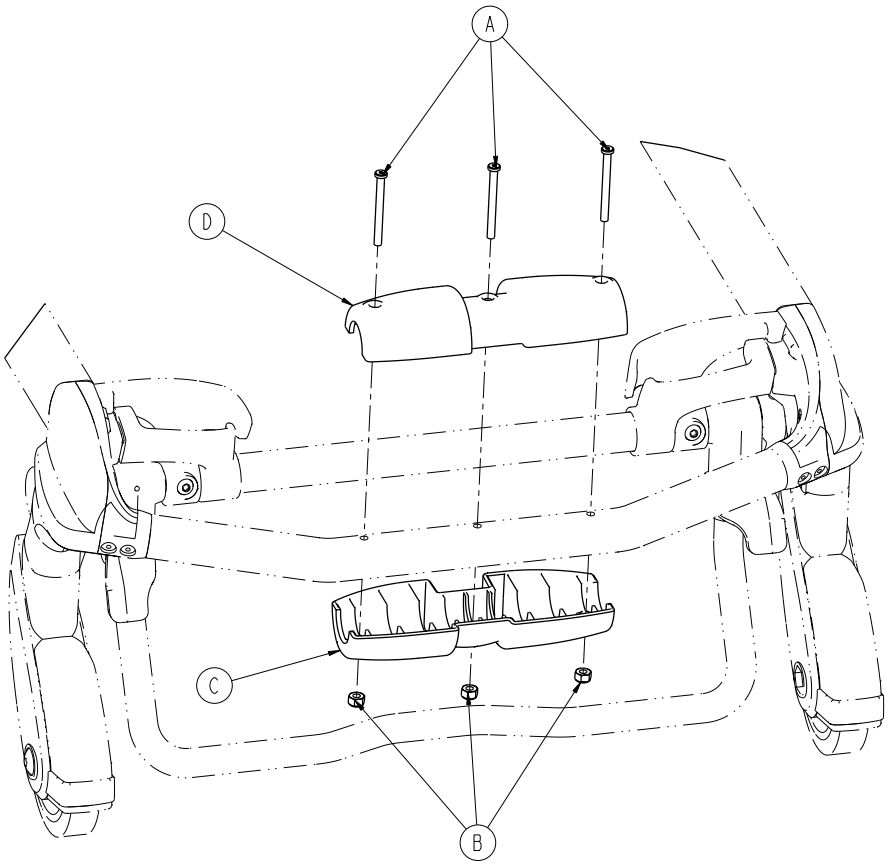


Item	Part No.	Part Name	Qty.
A	0004-376-000	Button Head Cap Screw	2
B	0015-016-000	Square Nut	2
C	0025-079-000	Rivet	2
D	6500-001-271	Magnet	1
E	6500-001-272	Holder	1

Return To Table of Contents

No Headsection Oxygen Bottle Holder Option - 6506-036-000

Rev A

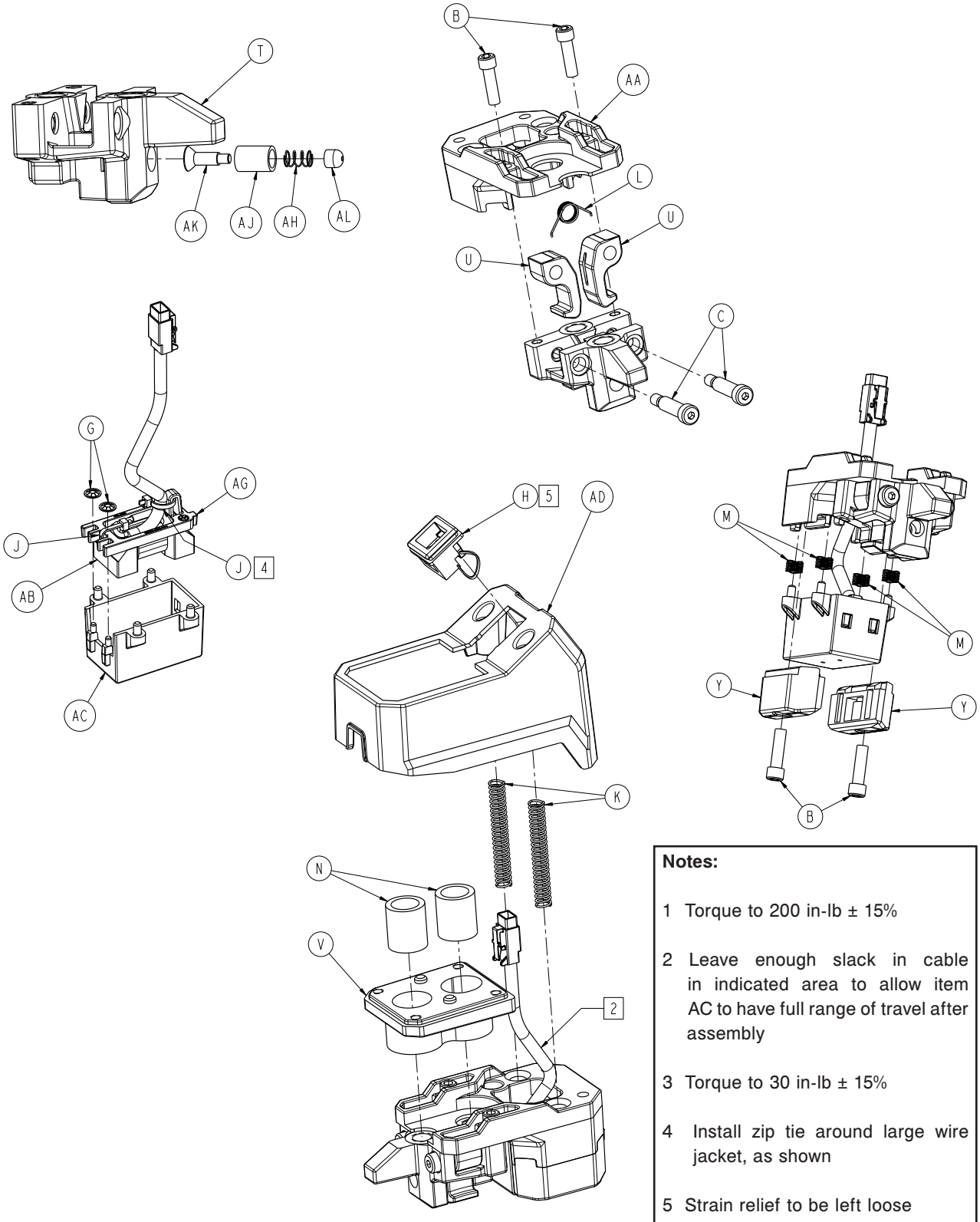


Item	Part No.	Part Name	Qty.
A	0004-656-000	Socket Head Cap Screw	3
B	0016-002-000	Fiberlock Hex Nut	3
C	6085-001-174	Oxygen Bottle Holder, Bottom	1
D	6500-002-156	Top Guide, Head End	1

Return To Table of Contents

Foot End Fastener Assembly (Power-LOAD Compatible Option)

6500-002-013 Rev F (Reference Only)



Notes:

1 Torque to 200 in-lb ± 15%

2 Leave enough slack in cable in indicated area to allow item AC to have full range of travel after assembly

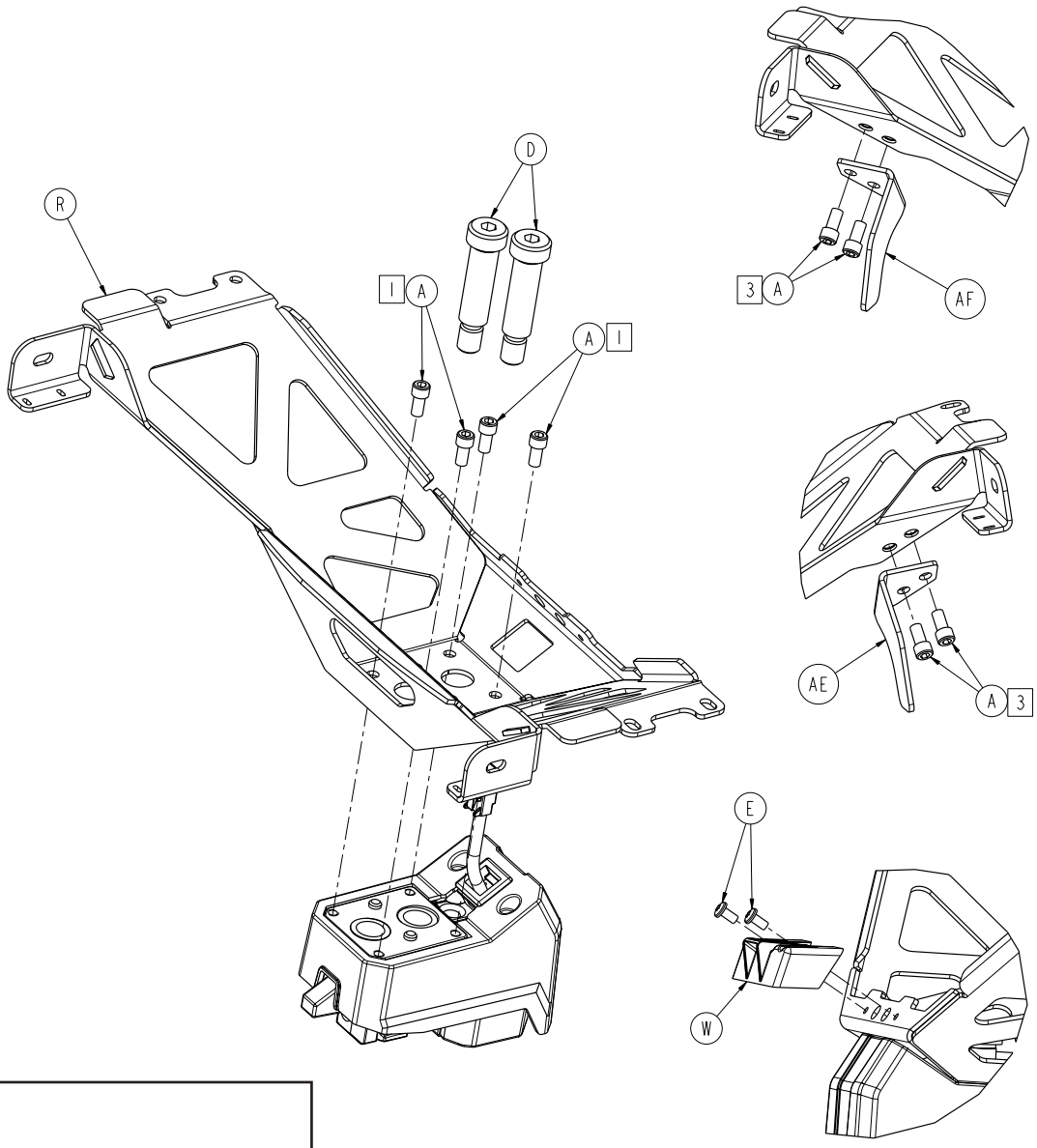
3 Torque to 30 in-lb ± 15%

4 Install zip tie around large wire jacket, as shown

5 Strain relief to be left loose on wire

Return To Table of Contents

Foot End Fastener Assembly (Power-LOAD Compatible Option)



Notes:

1 Torque to 200 in-lb ± 15%

2 Leave enough slack in cable in indicated area to allow item AC to have full range of travel after assembly

3 Torque to 30 in-lb ± 15%

4 Install zip tie around large wire jacket, as shown

5 Strain relief to be left loose on wire

Return To Table of Contents

Foot End Fastener Assembly (Power-LOAD Compatible Option)

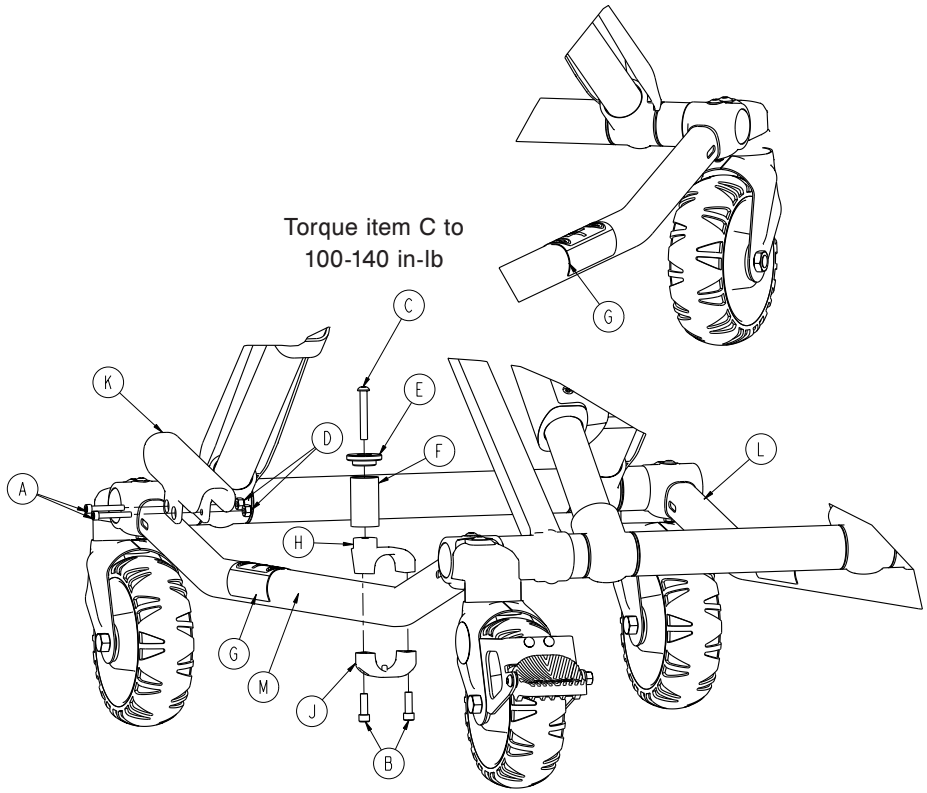
Foot End Fastener Assembly (Power-LOAD Compatible Option) - 6500-002-013 Rev F (Reference Only)

Item	Part No.	Part Name	Qty.
A	0004-660-000	Socket Head Cap Screw	8
B	0004-661-000	Socket Head Cap Screw	4
C	0008-088-000	Socket Head Set Screw	2
D	0008-087-000	Socket Head Set Screw	2
E	0023-296-000	Pan Head Machine Screw	2
G	0028-217-000	Pushnut	2
H	0037-248-000	Strain Relief	1
J	0038-111-000	Zip Tie	2
K	0038-889-000	Compression Spring	2
L	0038-891-000	Torsion Spring	1
M	0038-900-000	Wave Spring	4
N	0081-437-000	Sleeve Bearing	2
R	6500-002-050	Bracket Weldment	1
T	6500-002-111	Foot End Fastener Guide	1
U	6500-002-112	Cot Foot End Fastener Hook	2
V	6500-002-113	Foot End Fastener Bearing Plate	1
W	6500-002-119	Foot End Faster Cot Spacer	1
Y	6500-002-122	Foot End Faster Cot Wear Pad	2
AA	6500-002-129	Floating Plate	1
AB	6500-002-133	Cot Secondary Coil	1
AC	6500-002-135	Cot Foot End Fastener Coil Holder	1
AD	6500-002-136	Foot End Fastener Cot Housing	1
AE	6500-002-146	Foot End Fastener Cot Hook, Right	1
AF	6500-002-147	Foot End Fastener Cot Hook, Left	1
AG	6500-002-144	Cot Tie Down Coil Strap	1
AH	6500-001-012	Compression Spring	1
AJ	6500-002-148	Plunger Housing	1
AK	6500-002-149	Plunger	1
AL	6500-002-152	Plunger Cap	1

Return To Table of Contents

Cot Retaining Post, Right - 6085-033-000

Rev D

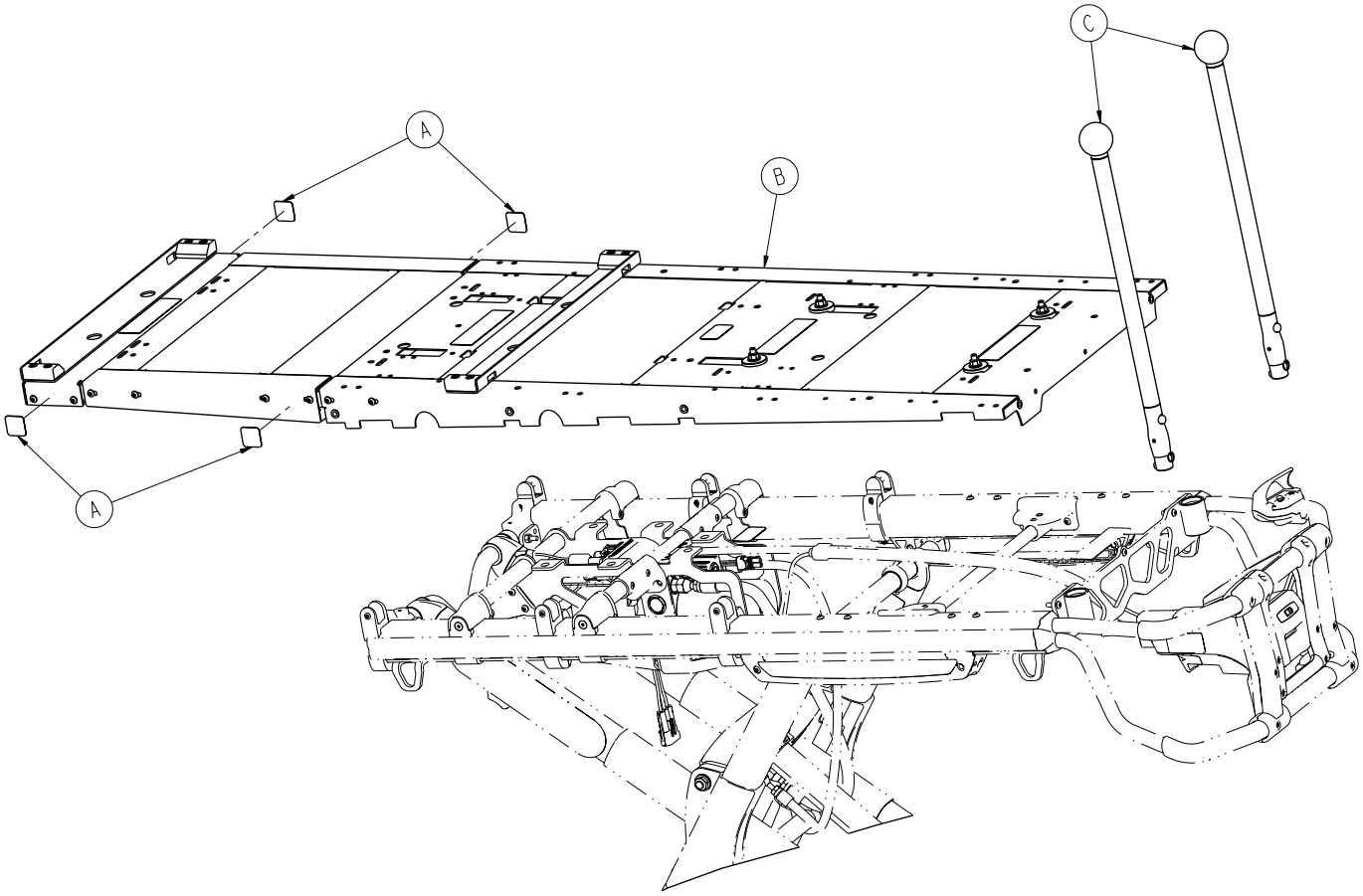


Item	Part No.	Part Name	Qty.
A	0004-160-000	Socket Head Cap Screw	2
B	0004-591-000	Socket Head Cap Screw	2
C	0004-503-000	Button Head Cap Screw	1
D	0016-003-000	Nylock Hex Nut	2
E	6060-004-043	Retaining Post Cap	1
F	6060-004-044	Post Tube	1
G	6080-090-108	Label, Lift Here	2
H	6500-001-189	Top Pin Bracket	1
J	6500-001-190	Bottom Pin Bracket	1
K	6500-001-302	Base Tube Protector	1
L	6085-001-056	Outer Base Tube Weldment	1
M	6085-001-057	Outer Base Tube Weldment	1

Return To Table of Contents

Airborne Side-by-Side Assembly Option - 6516-028-000

Rev A

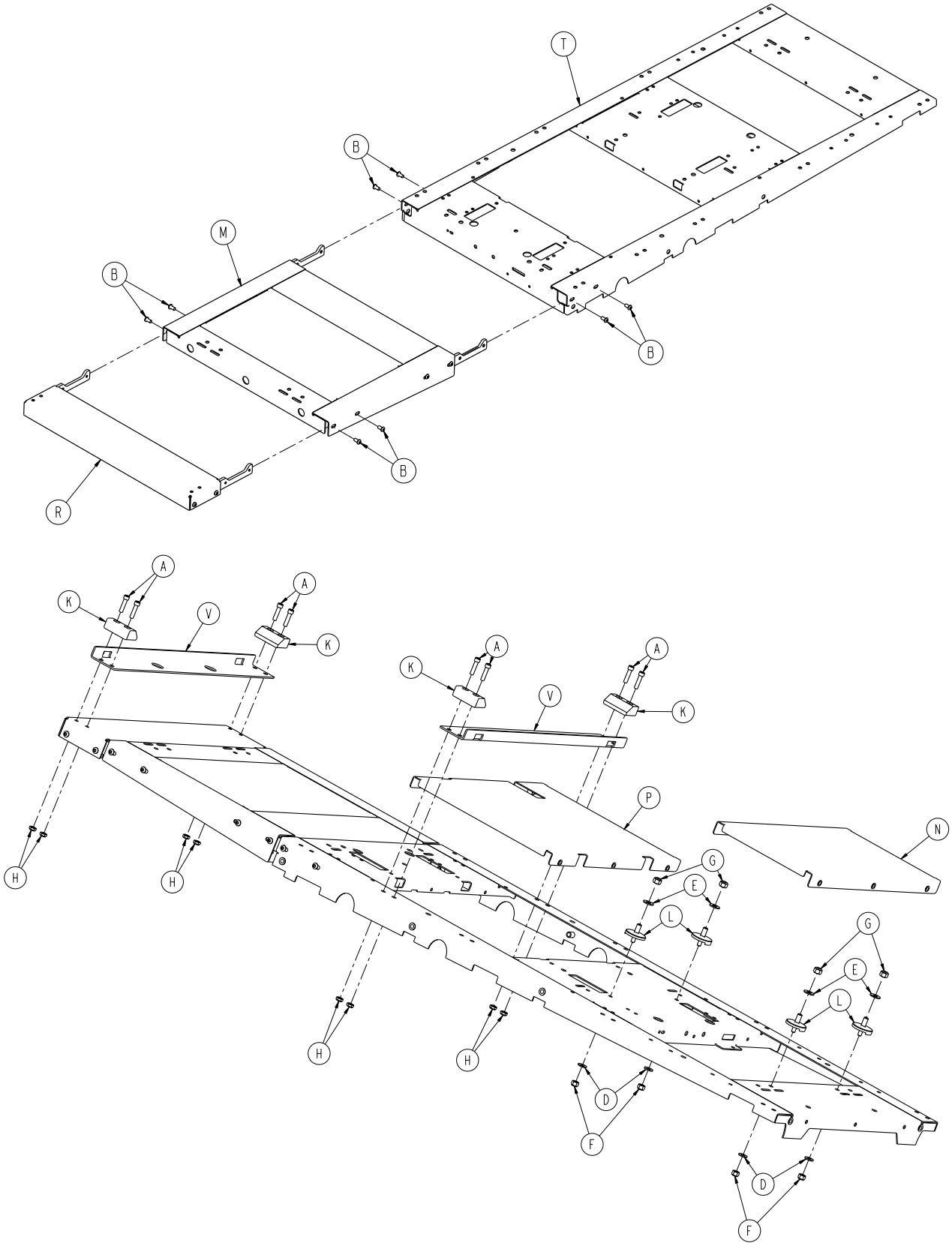


Item	Part No.	Part Name	Qty.
A	6060-090-114	Label, Warning	4
B	6516-001-017	Incubator Adaptor Assembly (Airborne Side-by-Side - page 126)	1
C	6550-001-026	Corner Handle Assembly	2

Return To Table of Contents

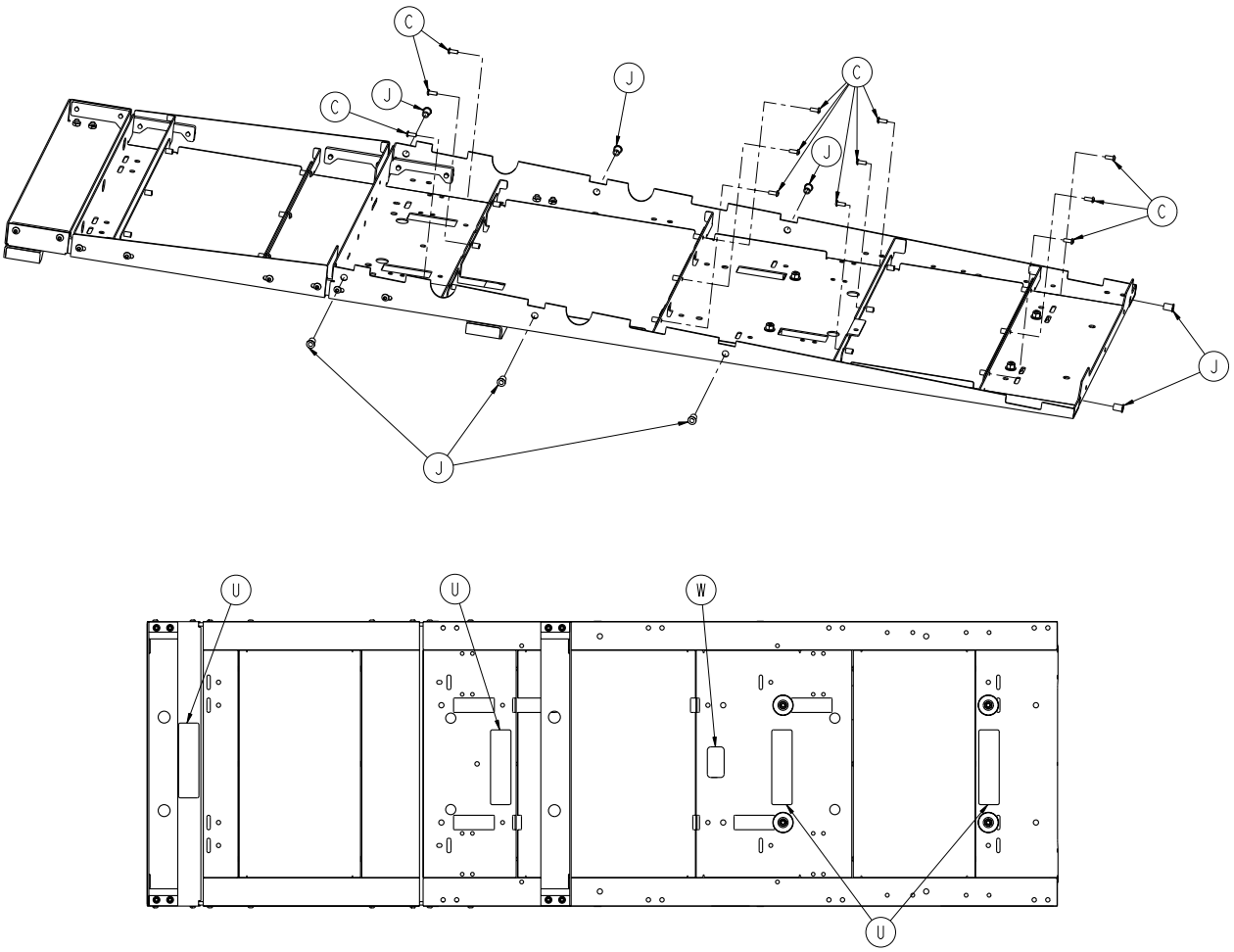
Incubator Adaptor Assembly - Airborne Side-by-Side

6516-001-017 Rev A (Reference Only)



Return To Table of Contents

Incubator Adaptor Assembly - Airborne Side-by-Side



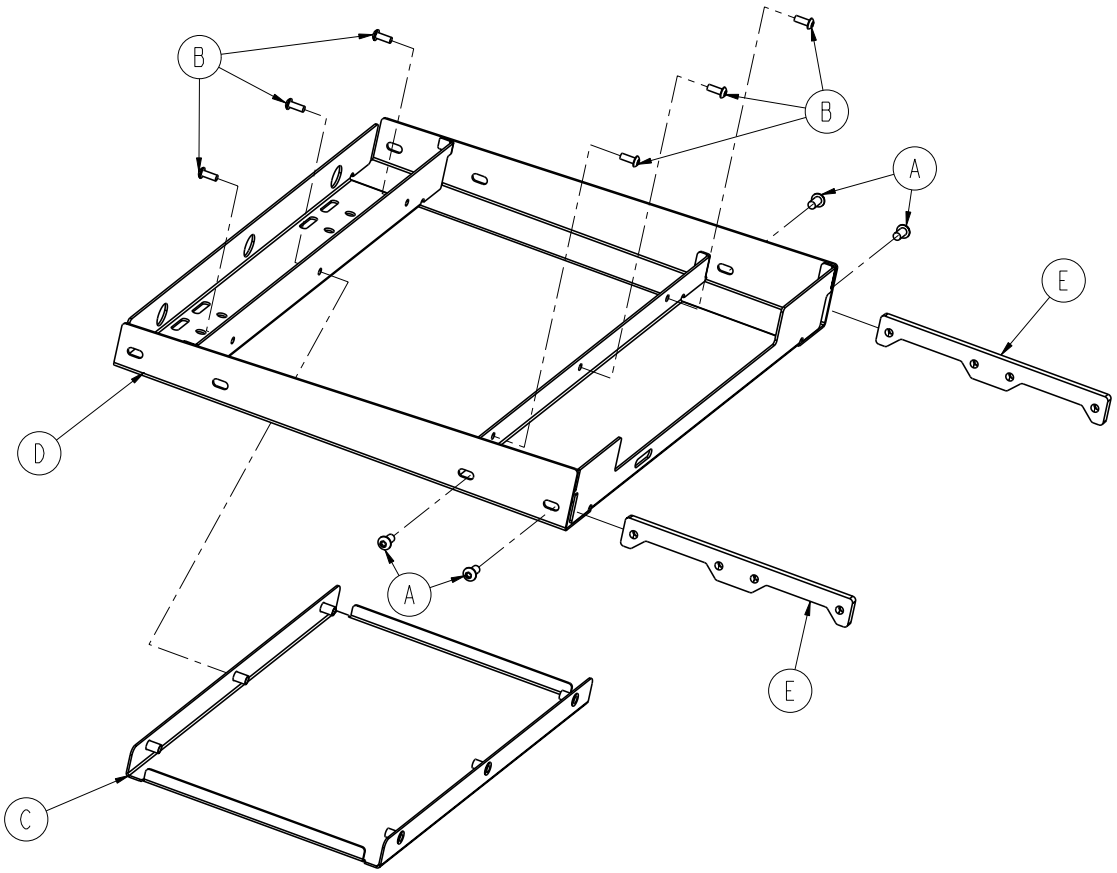
Incubator Adaptor Assembly - Airborne Side-by-Side - 6516-001-017 Rev A (Reference Only)

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	0055-100-076	1/4-20 Riv Nut	8
K	6081-200-022	Airborne IT Cot Wedge	4
L	6081-201-020	Mounting Stud	4
M	6510-001-018	Extension Assembly (page 142)	1
N	6510-001-021	Skin Assembly	1
P	6510-001-022	Skin Assembly	1
R	6510-001-026	Short Extension Assembly	1
T	6510-001-050	Main Litter Weldment	1
U	6510-001-128	Label, Warning	4
V	6510-001-131	Mounting Angle	2
W	6516-001-106	Label, Spec	1

Return To Table of Contents

Extension Assembly - 6510-001-018

Rev B

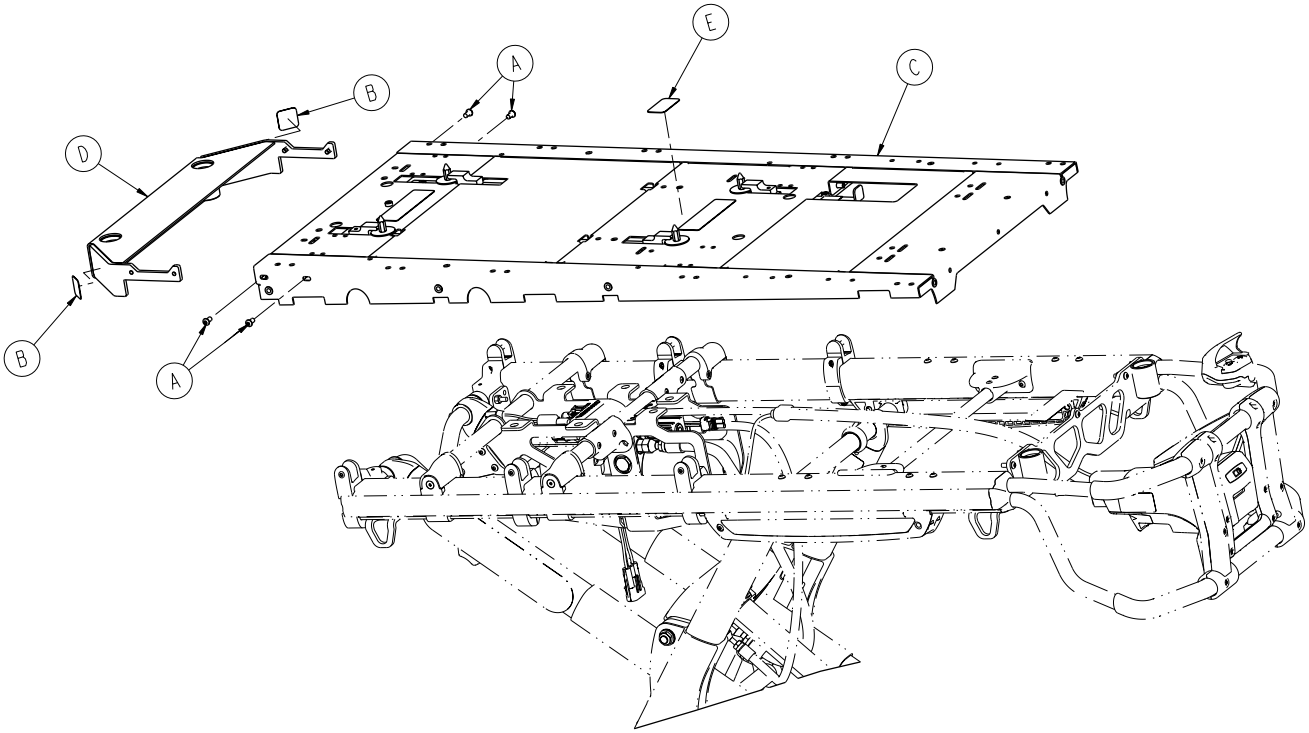


Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	4
B	0004-634-000	Button Head Cap Screw	6
C	6510-001-021	Skin Assembly	1
D	6510-001-051	Litter Extension Weldment	1
E	6510-001-090	Connecting Bar	2

Return To Table of Contents

Drager Assembly Option - 6516-029-000

Rev A

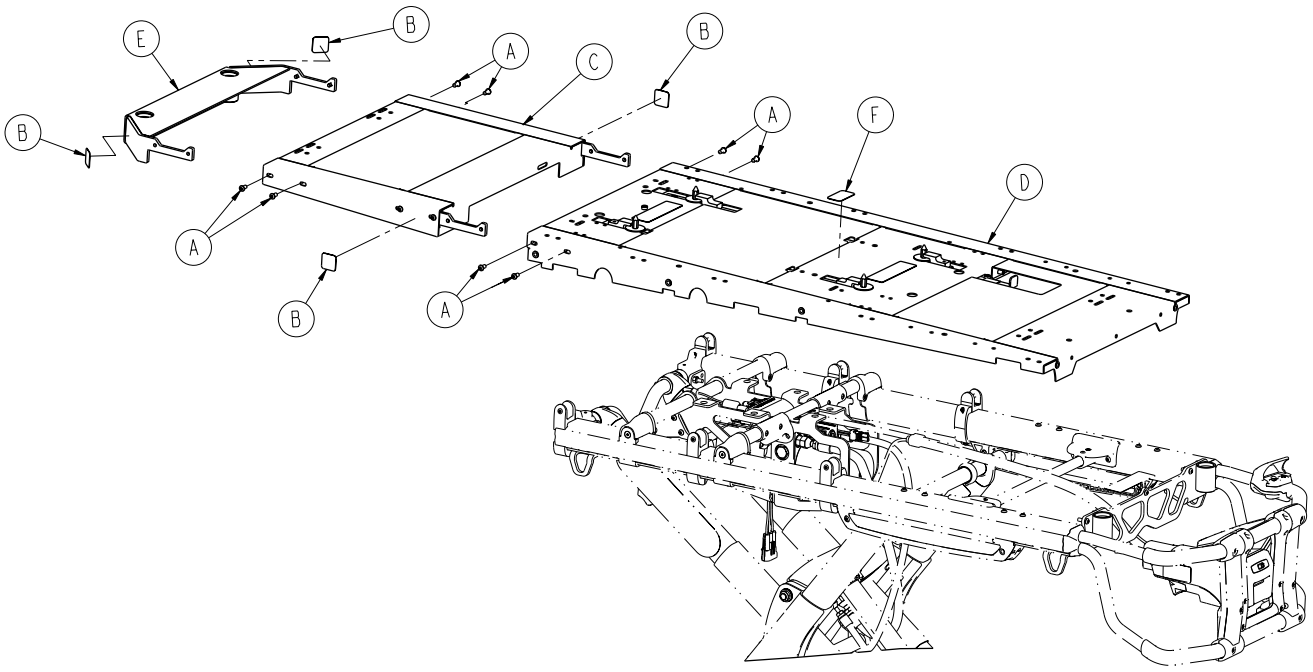


Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	4
B	6060-090-114	Label, Warning	2
C	6510-001-019	Incubator Adaptor Assembly (Drager - page 145)	1
D	6510-001-053	Socket Weldment, Head End	1
E	6516-001-107	Label, Drager, Spec	1

Return To Table of Contents

Drager Extended Assembly Option - 6516-041-000

Rev A

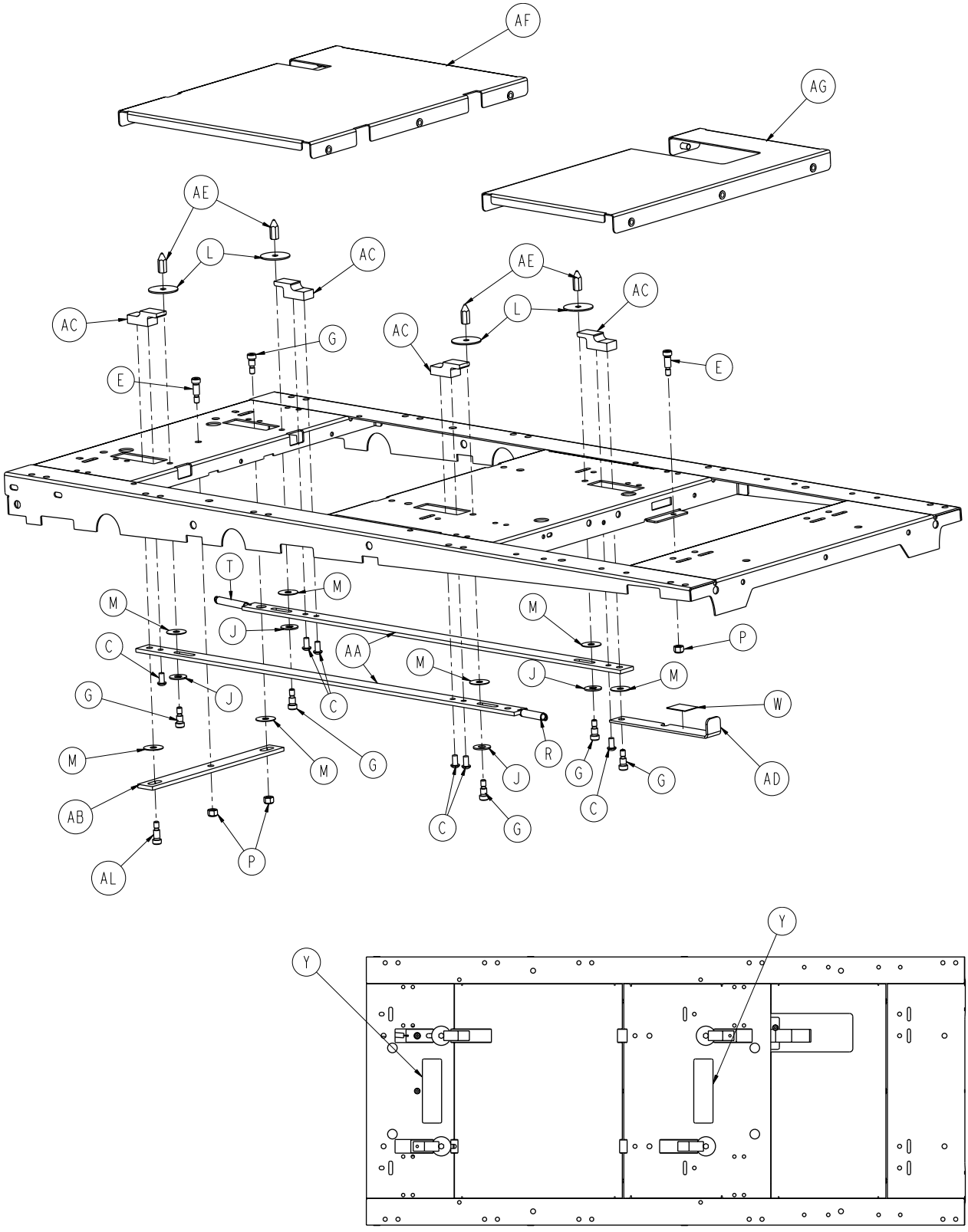


Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	8
B	6060-090-114	Label, Warning	4
C	6510-001-018	Extension Assembly (page 142)	1
D	6510-001-019	Incubator Adaptor Assembly (Drager - page 145)	1
E	6510-101-053	Socket Weldment, Head End	1
F	6516-001-123	Label, Drager Extended	1

Return To Table of Contents

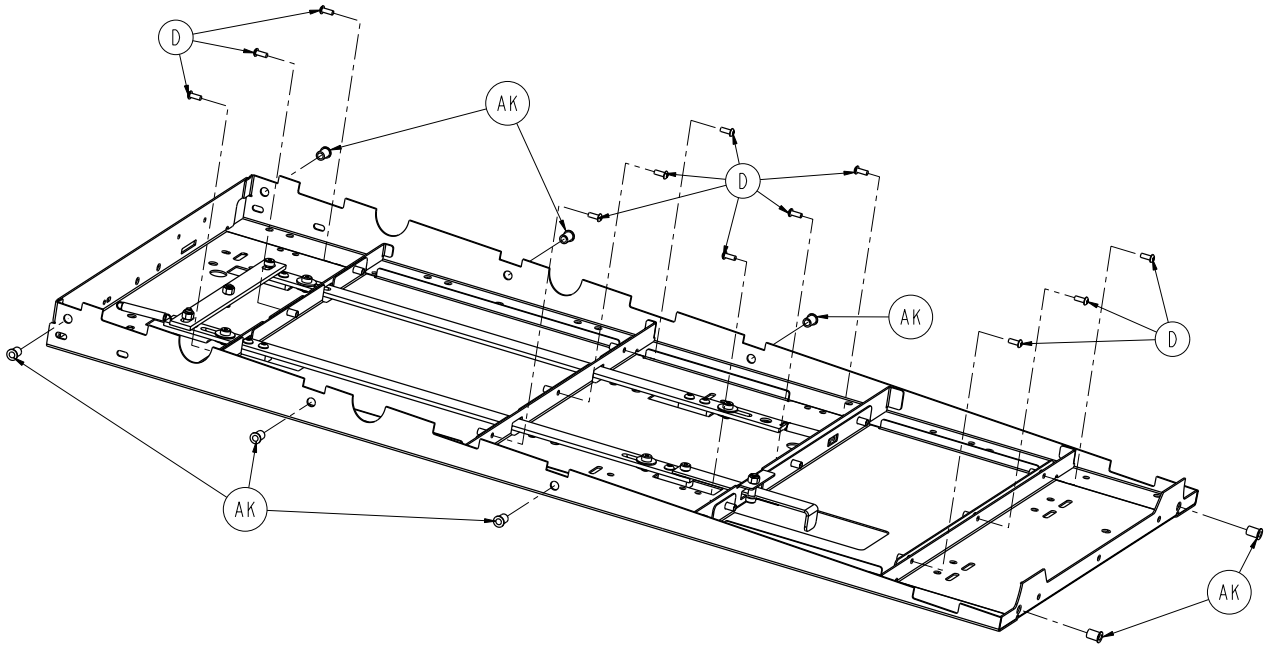
Incubator Adaptor Assembly - Drager

6510-001-019 Rev C (Reference Only)



Return To Table of Contents

Incubator Adapter Assembly - Drager



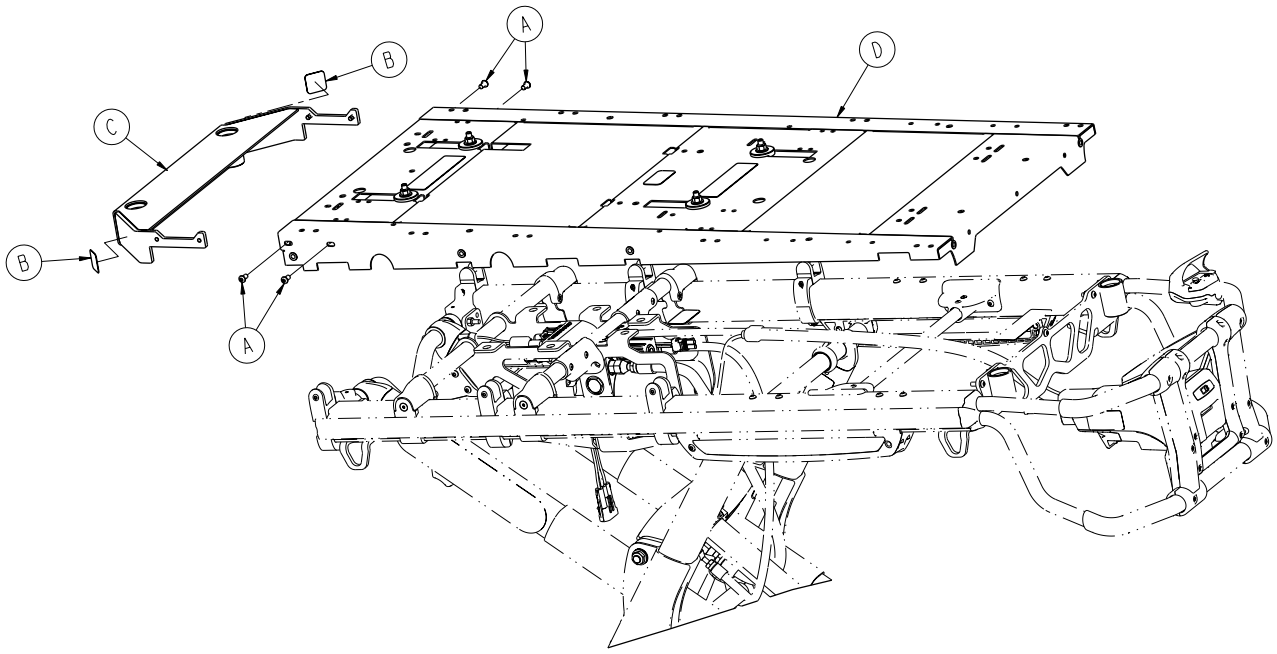
Incubator Adapter Assembly - Drager - 6510-001-019 Rev C (Reference Only)

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	Label, Lock Pull	1
Y	6510-001-125	Label, Warning	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

Return To Table of Contents

Airborne Stackable Assembly Option - 6516-027-000

Rev A

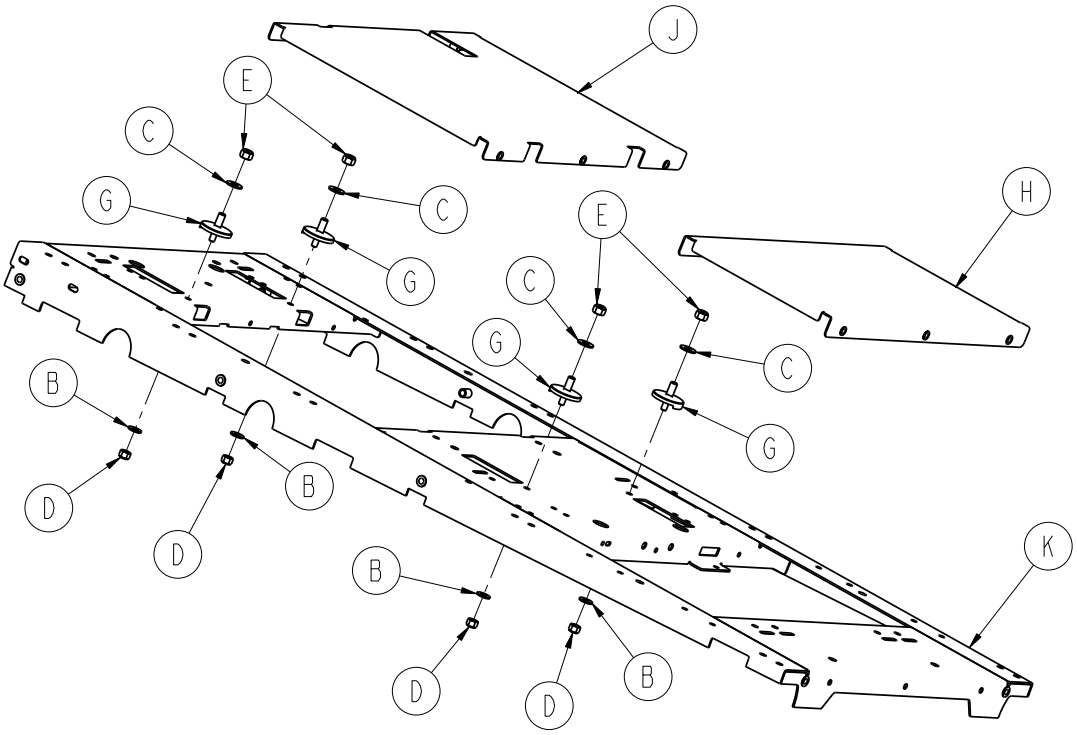


Item	Part No.	Part Name	Qty.
A	0004-589-000	Button Head Cap Screw	4
B	6060-090-114	Label, Warning	2
C	6510-001-029	Socket Weldment, Head End	1
D	6516-001-020	Incubator Adaptor Assembly (Airborne Stackable - page 148)	1

Return To Table of Contents

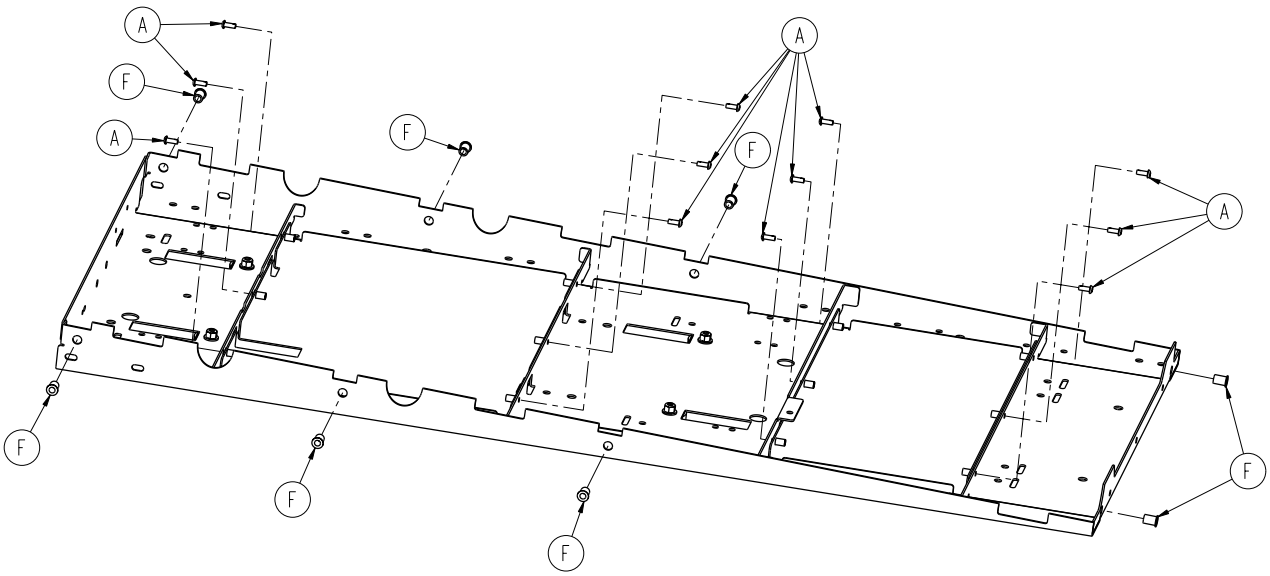
Incubator Adaptor Assembly - Airborne Stackable

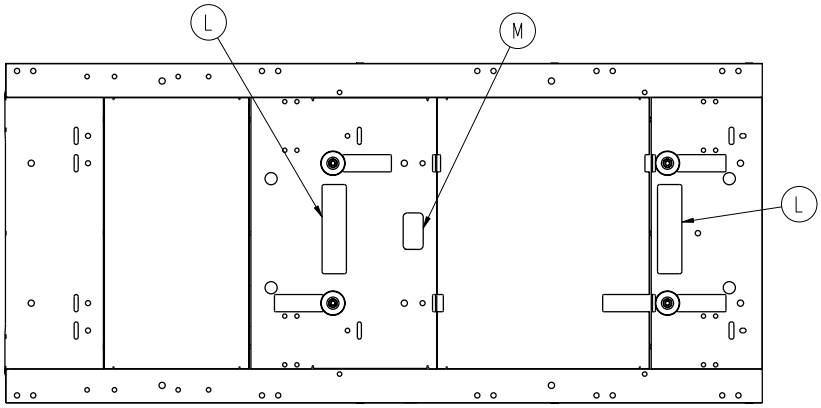
6516-001-020 Rev A (Reference Only)



Return To Table of Contents

Incubator Adapter Assembly - Airborne Stackable





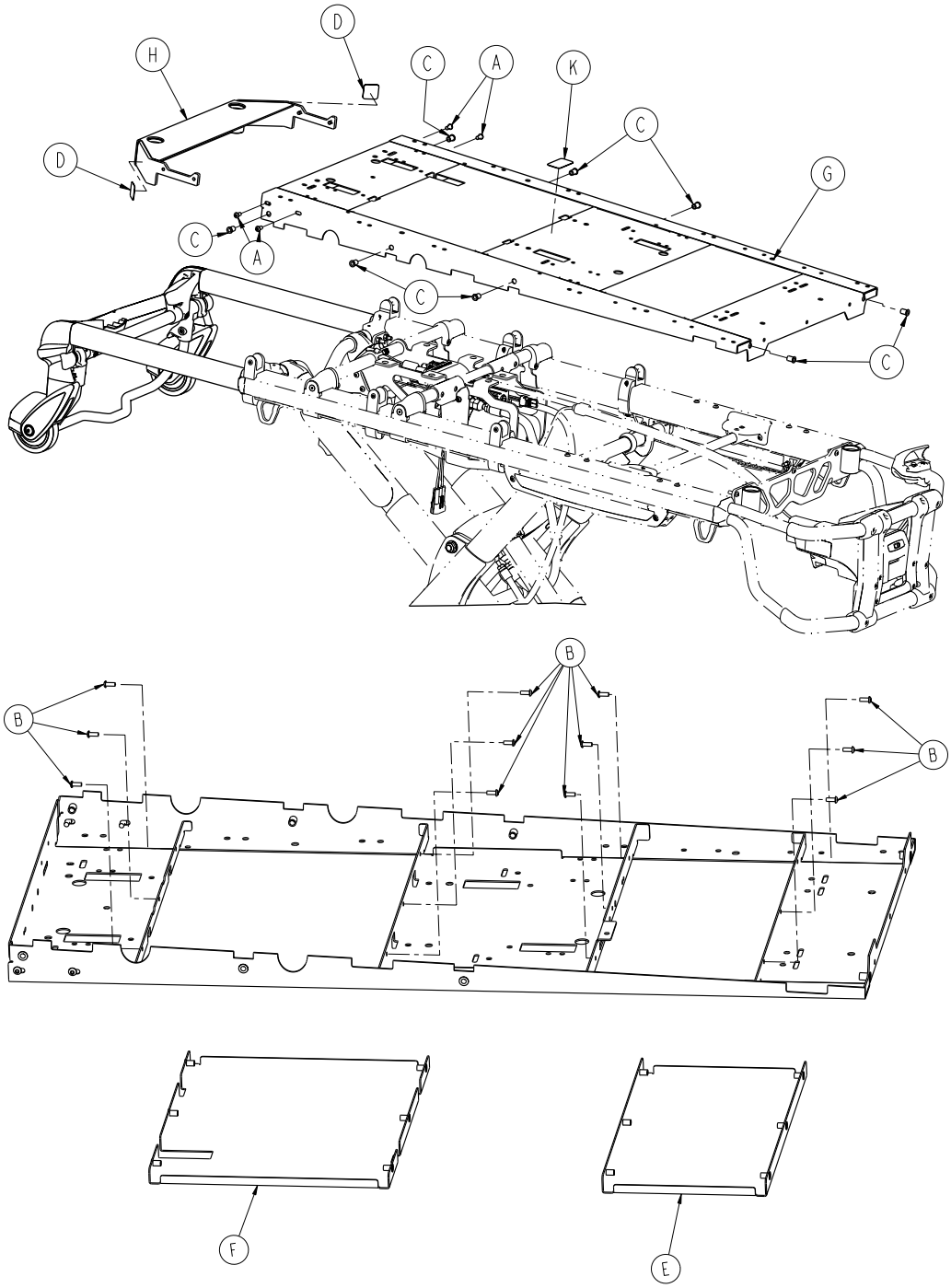
Incubator Adaptor Assembly - Airborne Stackable - 6516-001-020 Rev A (Reference Only)

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	0055-100-076	1/4-20 Riv Nut	8
G	6081-201-020	Mounting Stud	4
H	6510-001-021	Skin Assembly	1
J	6510-001-022	Skin Assembly	1
K	6510-001-050	Main Litter Weldment	1
L	6510-001-128	Label, Warning	2
M	6516-001-105	Label, Spec	1

Return To Table of Contents

No Adapter Assembly Option, Air Sled - 6516-042-000

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	Label, Warning	2
E	6510-001-021	Skin Assembly	1
F	6510-001-022	Skin Assembly	1
G	6510-001-050	Main Litter Weldment	1
H	6510-101-053	Socket Weldment, Head End	1
J	6516-001-124	Label, Spec, No Adapter Option	1

Return To Table of Contents

Optional Accessories

The accessories listed below can be purchased and installed on the **Power-PRO™** IT cot.

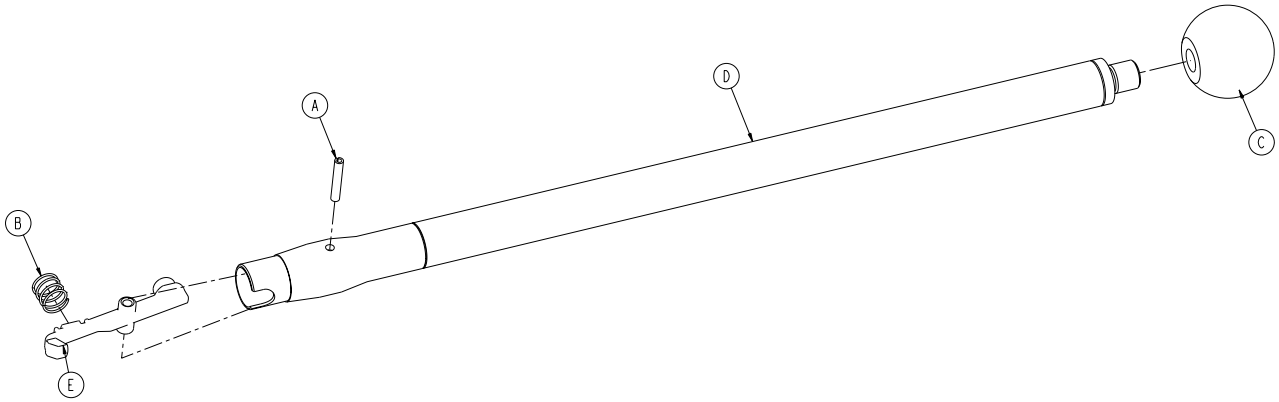
Accessory	Part Number	Assembly Page Number
Rigid Push Bar, Foot End	6516-040-000	page 152
Rigid Push Bar, Head End	6516-031-000	page 152
Storage Flat, Head End	6500-128-000	page 153

Return To Table of Contents

Rigid Push Bar, Foot End - 6516-040-000 / Rigid Push Bar, Head End - 6516-031-000

Rev B

6550-001-026 Rev B (Reference Only)

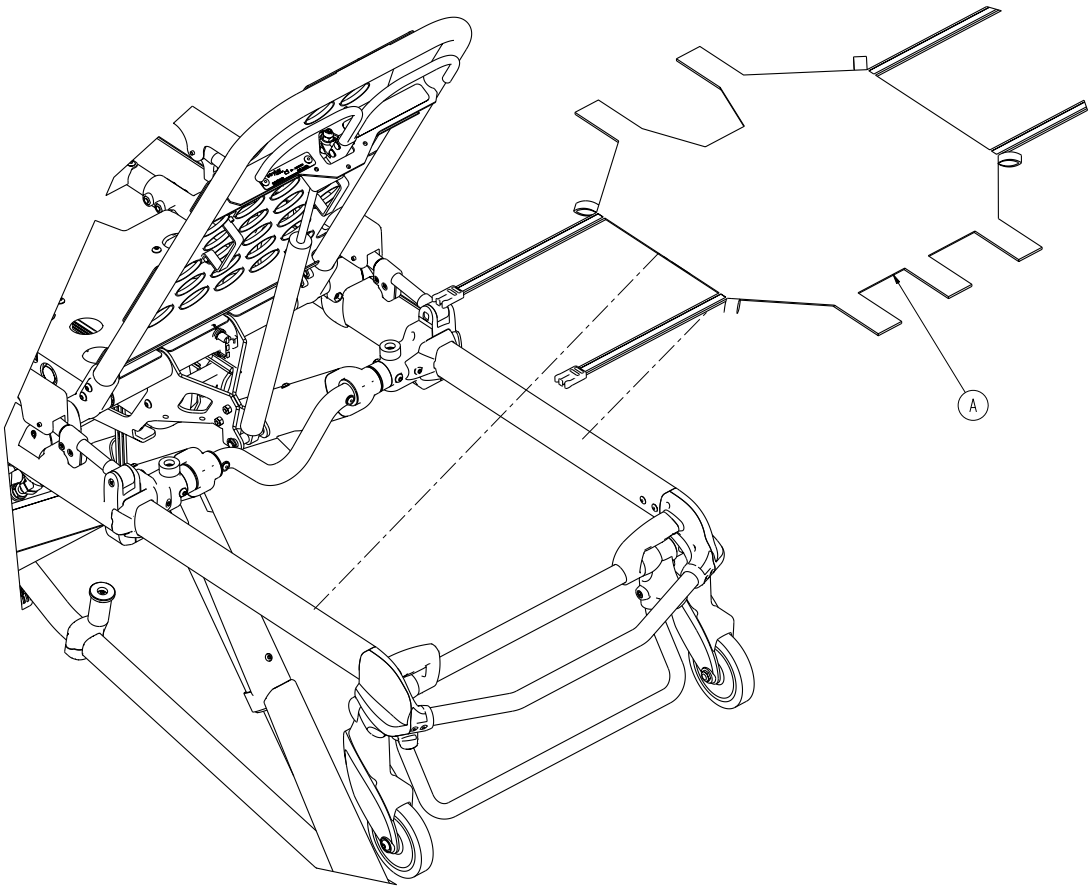


Item	Part No.	Part Name	Qty.
A	0026-387-000	Slotted Spring Pin	1
B	0038-589-000	Compression Spring	1
C	6510-001-119	Handle Ball	1
D	6550-001-067	Handle Weldment	1
E	6550-001-100	Push Bar Lock Button	1

Return To Table of Contents

Head End Storage Flat - 6500-128-000

Rev A



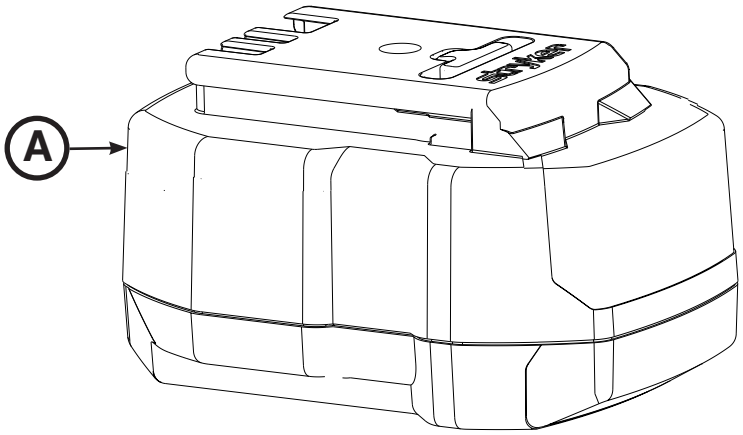
Item	Part No.	Part Name	Qty.
A	6500-001-232	Head End Storage Flat	1

Return To Table of Contents

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

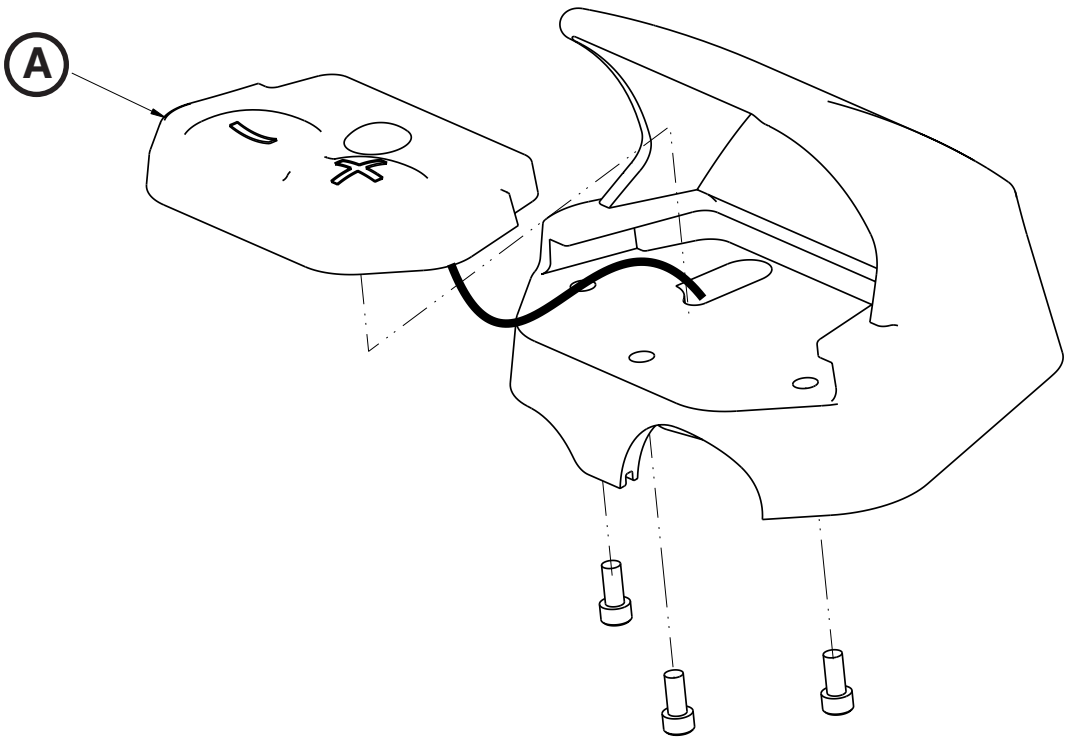
The Rechargeable Battery Recycling Corporation (RBRC) is a non-profit, public service organization that promotes the recycling of portable rechargeable batteries. Batteries must be delivered to a battery collection site. Visit the RBRC website (www.rbrc.org) to find a nearby collection site or call the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

Return To Table of Contents

Recycling Passport

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

Exploded view of switch assembly



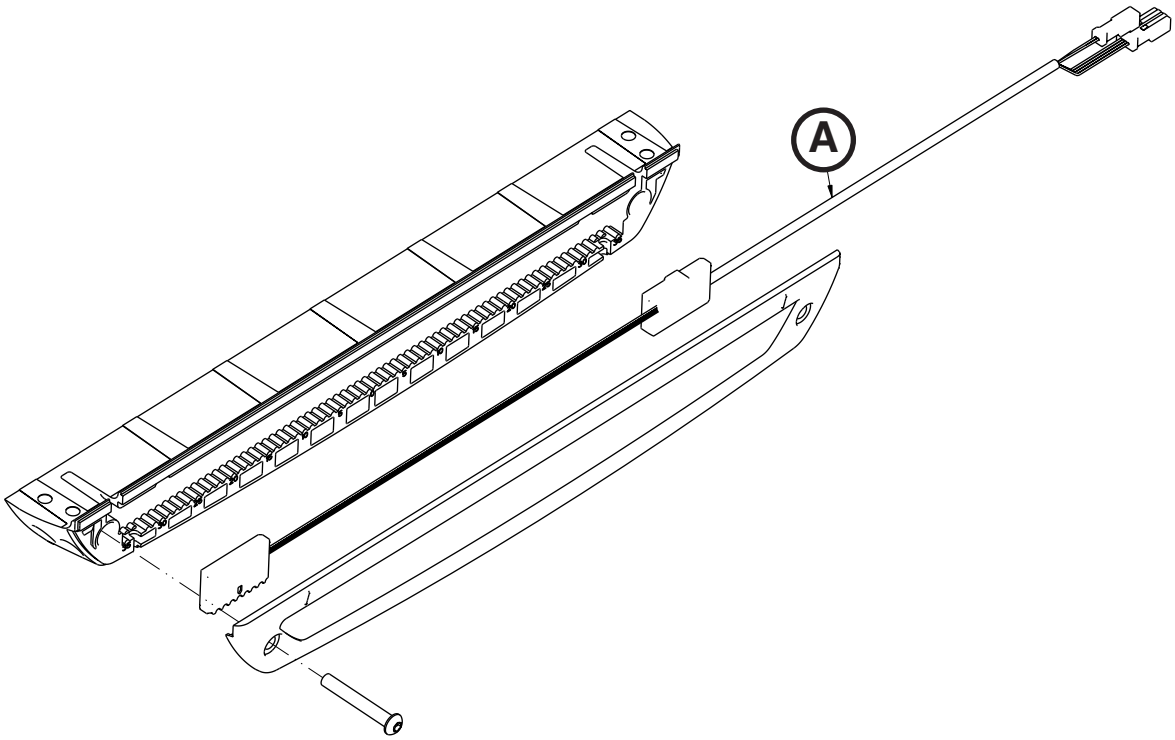
Item	Recycling/Material Code	Important Information	Qty
A	Printed Circuit Board		2

Return To Table of Contents

Recycling Passport

Assembly Part Number: 6500-002-028 (Reference Only)

Exploded view of hall sensor assembly

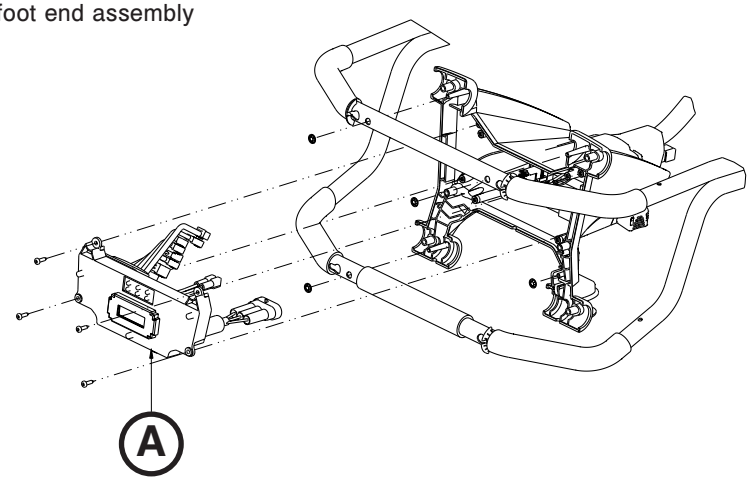


Item	Recycling/Material Code	Important Information	Qty
A	Printed Circuit Board		1

Return To Table of Contents

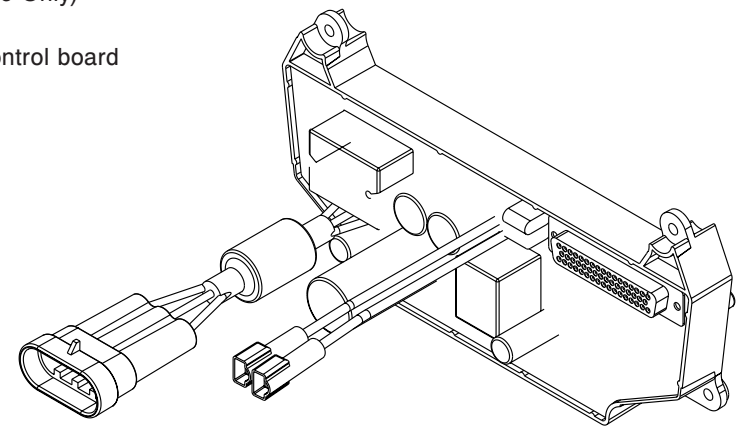
Assembly Part Number: 6500-002-015 (Reference Only)

Exploded view of foot end assembly



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

Exploded view of electronics control board



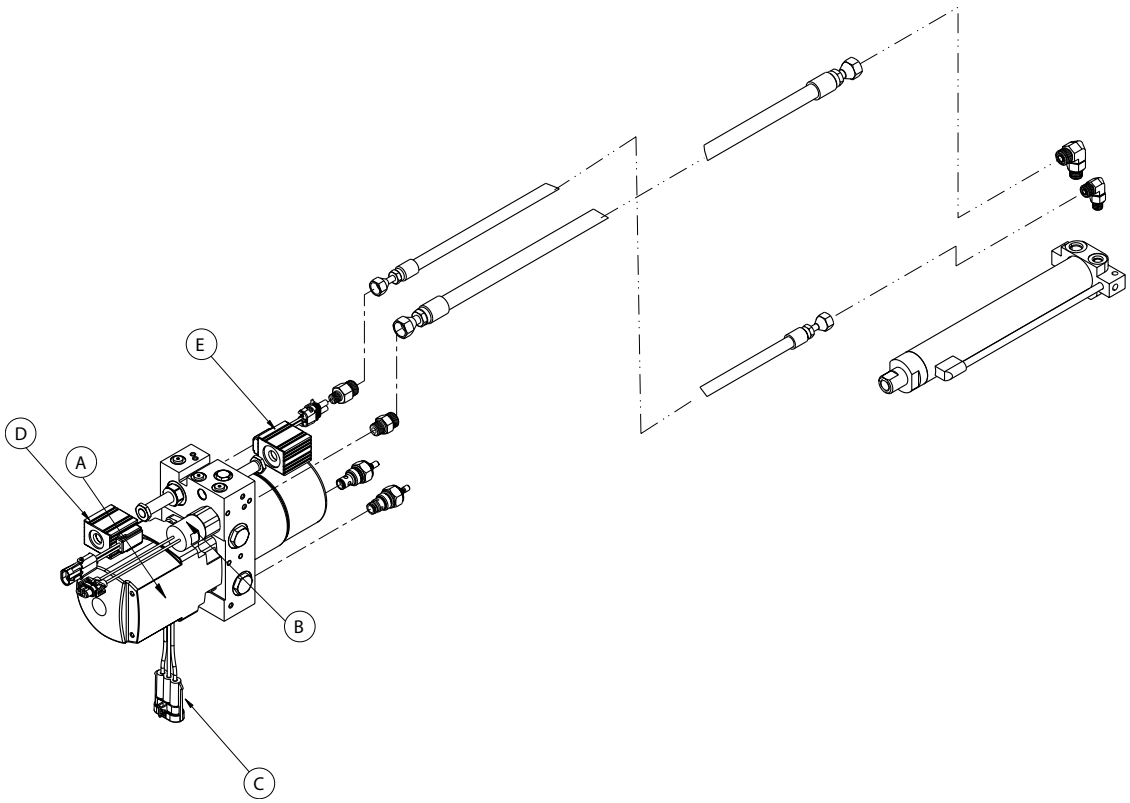
Item	Recycling/Material Code	Important Information	Qty
A	Printed Circuit Board	Contains Liquid Crystal Display	1

Return To Table of Contents

Recycling Passport

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

Exploded view of hydraulics assembly



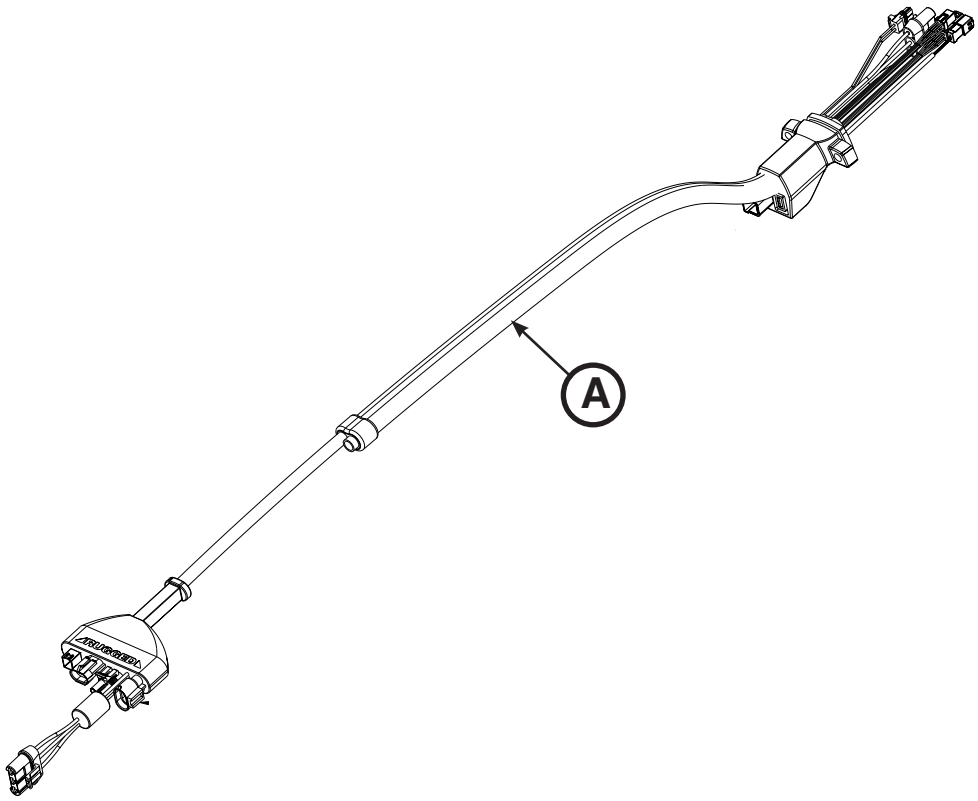
Item	Recycling/Material Code	Important Information	Qty
A	Motor	Contains Automatic Transmission Fluid*	1
B	External Electrical Cable		1
C	External Electrical Cable		1
D	External Electrical Cable		1
E	External Electrical Cable		1

* Mobil Mercon® V Synthetic Blend or equivalent

Return To Table of Contents

Recycling Passport

Assembly Part Number: 6500-002-159 (Reference Only)



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

Return To Table of Contents

Warranty

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.

Return To Table of Contents

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

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

Other patents pending

Return To Table of Contents

POWER-PRO™ IT

Guidance and manufacturer's declaration - electromagnetic emissions		
The Model 6516 **Power-PRO™** IT cot is intended for use in the electromagnetic environment specified below. The customer or the user of the Model 6516 **Power-PRO™** IT cot should assure that it is used in such an environment.		
Emissions test	**Compliance**	**Electromagnetic environment - guidance**
RF emissions CISPR 11	Group 1	The Model 6516 **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	Group 2	The Model 6516 **Power-PRO™** IT cot must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.
RF emissions CISPR 11	Cot: Class A	The Model 6516 **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.
Harmonic emissions IEC 61000-3-2	Cot: N/A	Not applicable
	SMRT Charger (6500-201-010): Class A	
Voltage fluctuations flicker emissions IEC 61000-3-3	Cot: N/A	Not applicable
	SMRT Charger (6500-201-010): Complies	

Return To Table of Contents

POWER-PRO™ IT (CONTINUED)

Guidance and manufacturer's declaration - electromagnetic immunity			
The Model 6516 **Power-PRO™** IT cot is intended for use in the electromagnetic environment specified below. The customer or user of the Model 6516 **Power-PRO™** IT cot should assure that it is used in such an environment.			
IMMUNITY test	**EN/IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Electrostatic discharge (ESD) EN/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: • Cot • SMRT Charger (6500-201-010)
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	Mains power quality should be that of a typical commercial or hospital environment. Applies to: • SMRT Charger (6500-201-010)
Surge IEC 61000-4-5	±8 kV differential mode ±2 kV common mode	±8 kV differential mode ±2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment. Applies to: • SMRT Charger (6500-201-010)
Voltage dips, short interruptions, and voltage variations 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	Mains power quality should be that of a typical commercial 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 (50/60Hz) magnetic field EN/IEC 61000-4-8	3A/m	3A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. Applies to: • Cot • SMRT Charger (6500-201-010)
Note: U_T is the alternating current mains voltage prior to application of the test level.			

Return To Table of Contents

POWER-PRO™ IT (CONTINUED)

Guidance and manufacturer's declaration - electromagnetic immunity			
The Model 6516 **Power-PRO™** IT cot is intended for use in the electromagnetic environment specified below. The customer or user of the Model 6516 **Power-PRO™** IT cot should assure that it is used in such an environment.			
IMMUNITY test	**EN/IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Conducted RF EN/IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the model 6516 **Power-PRO™** IT cot, including cables, than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter. **Recommended separation distance** $d=1.2\sqrt{P}$ Applies to: • SMRT Charger (6500-201-010)

POWER-PRO™ IT (CONTINUED)

Guidance and manufacturer's declaration - electromagnetic immunity			
The Model 6516 **Power-PRO™** IT cot is intended for use in the electromagnetic environment specified below. The customer or user of the Model 6516 **Power-PRO™** IT cot should assure that it is used in such an environment.			
IMMUNITY test	**EN/IEC 60601 test level**	**Compliance level**	**Electromagnetic environment - guidance**
Radiated RF EN/IEC 61000-4-3	20 V/m 80 MHz to 2,5 GHz	20 V/m	Portable and mobile RF communications equipment should be used no closer to any part of the Model 6516 **Power-PRO™** IT cot, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter. **Recommended separation distance:** D=(1.2)(√P) D=(0.18)(√P) 80 MHz to 800 MHz D=(0.35)(√P) 800 MHz to 2,5 GHz where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and *d* is the recommended separation distance in metres (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, [a] should be less than the compliance level in each frequency range. [b] Interference may occur in the vicinity of equipment with the following symbol: 
NOTE 1: At 80 MHz and 800 MHz, the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			
[a] 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 6516 **Power-PRO™** IT cot is used exceeds the applicable RF compliance level above, the Model 6516 **Power-PRO™** IT cot should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the Model 6516 **Power-PRO™** IT cot. [b] Over the frequency range 150 kHz to 80 MHz, field strengths are less than 20 V/m.			

Return To Table of Contents

POWER-PRO™ IT (CONTINUED)

Recommended separations distances between portable and mobile RF communication equipment and the Model 6516 Power-PRO™ IT cot			
The Model 6516 **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 6516 **Power-PRO™** IT cot can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the Model 6516 **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=(1.2)(√P)	**80 MHz to 800 MHz D=(0.18)(√P)**	**800 MHz to 2,5 GHz D=(0.35)(√P)**
0.01	0.12	0.018	0.035
0.1	0.38	0.57	0.11
1	1.2	0.18	0.35
10	3.8	0.57	1.1
100	12	1.8	3.5
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. NOTE 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.			

Return To Table of Contents

Stryker Medical
3800 E. Centre Ave.
Portage, Michigan 49002
USA

EC REP

Stryker France S.A.S.
ZAC - Avenue de Satolas Green
69881 MEYZIEU Cedex
France

Made in the U.S.A.

stryker®

2012/08 6516-009-001 REV C www.stryker.com