Power-PRO™ IT Cot

REF 6516

stryker®

Maintenance Manual

Symbols

	Refer to instruction manual/booklet
	Operating instructions/Consult instructions for use
	General warning
	Caution
	Warning; crushing of hands
	Warning; non-ionizing radiation
	Do not lubricate
	Do not transport incubator or product in raised position
	Transport incubator or product in low position only
REF	Catalogue number
LOT	Lot (batch) code
SN	Serial number
US Patents	For US patents see www.stryker.com/patents
	Manufacturer
	Date of manufacture
	Safe working load
c US	Medical Equipment Recognized by Underwriters Laboratories LLC With Respect to Electric Shock, Fire, and Mechanical Hazards only in accordance with ANSI/AAMI ES60601-1: 2005 and CAN/CSA-C22.2 No. 60601-1:08.
⎓	Direct current
~	Alternating current

Symbols

	Class II electrical equipment: equipment in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions such as double insulation or reinforced insulation are provided, there being no provision for protective earthing or reliance upon installation conditions.
	Dangerous voltage
SMRT™ Power	**SMRT** power system
	Extend
	Retract
IPX0	Non-protected
IPX6	Protection from powerful water jets
	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.
	WEEE Directive (2012/96/EC). Contains cadmium.
	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.
	Contains nickel cadmium cells and should be recycled accordingly
DATA – +	Battery terminal identification (data line, negative, and positive)
KRX 23/44	Ni-Cd cell identification per IEC 61951-1:2003
2300 mAh (1.2A/2h)	Battery capacity, typical charge, and duration

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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 product 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.

Summary of safety precautions

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

WARNING

- Always keep your hands clear of the red safety bar pivots when you load, unload, or change the height position of the cot.
- Always use any appropriate personal protective equipment, such as goggles or respirator, to avoid the risk of inhaling contagion during cleaning. Use of power washing equipment can aerate contamination that collects during the use of the product.
- Always wipe the product with clean water and dry after cleaning. Some cleaning products are corrosive in nature and may cause damage to the product. Failure to properly rinse and dry the product leaves a corrosive residue on the surface of the product and may cause premature corrosion of critical components.
- Always wear insulated rubber gloves, in addition to personal protective equipment, when cleaning the **SMRT** Pak to reduce the risk of injury.
- Always disconnect the **SMRT** charger from the wall outlet before cleaning to avoid the risk of electrical hazards.
- Do not spray fluid directly onto the **SMRT** charger.
- Do not power wash the **SMRT** charger.
- Do not immerse the **SMRT** charger in water or allow water to collect on top of the **SMRT** charger to avoid the risk of electric shock.
- Always use only non-conductive materials to wipe the **SMRT** Pak.
- Always refer to the disinfectant's Material Safety Data Sheet (MSDS) to verify the pH range. Disinfectants with pH levels higher than 10.5 may cause the **SMRT** Pak housing material to crack.
- Do not directly handle or make contact with the **SMRT** Pak terminals while cleaning to avoid the risk of injury.
- Do not immerse the **SMRT** Pak in liquid to reduce the risk of electric shock.
- Do not use solvents, lubricants, or other chemicals to clean the **SMRT** Pak unless otherwise directed.
- Always relieve pressure before you disconnect hydraulic or other lines. Escaping fluid under pressure can penetrate the skin and cause serious injury. Tighten all connections before you apply pressure. If an accident occurs, see a doctor immediately.
- Do not use bare hands to check for hydraulic leaks.

CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.
- 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.
- Do not steam clean or ultrasonically clean the product.
- Do not exceed 180 °F (82 °C) as the maximum water temperature.
- Do not exceed 1500 psi (130.5 bar) as the maximum water pressure. If you are using a hand held wand to wash the product, keep the pressure nozzle at a minimum of 24 in. (61 cm) from the product.
- Always allow to air dry.
- Always remove the battery before you wash the cot.

⚠ CAUTION (CONTINUED)

- Do not steam clean or ultrasonically clean the **SMRT** Pak.
- Always use authorized parts to avoid the risk of product damage.
- Always check hoses and lines regularly to avoid damage to the cot. Check and tighten loose connections. Hydraulic lines, hoses, and connections can fail or loosen due to physical damage, kinks, age, and environment exposure.
- Do not tip the cot onto its load wheels and actuate the product as this will allow air to enter the hydraulic system.
- The cot retaining post is shipped pre-configured for an X-frame cot. If the fastener has been configured for an H-frame cot, you must adjust the retaining post to accommodate the fastener.

Pinch points

⚠ WARNING

Always keep your hands clear of the red safety bar pivots when you load, unload, or change the height position of the cot.

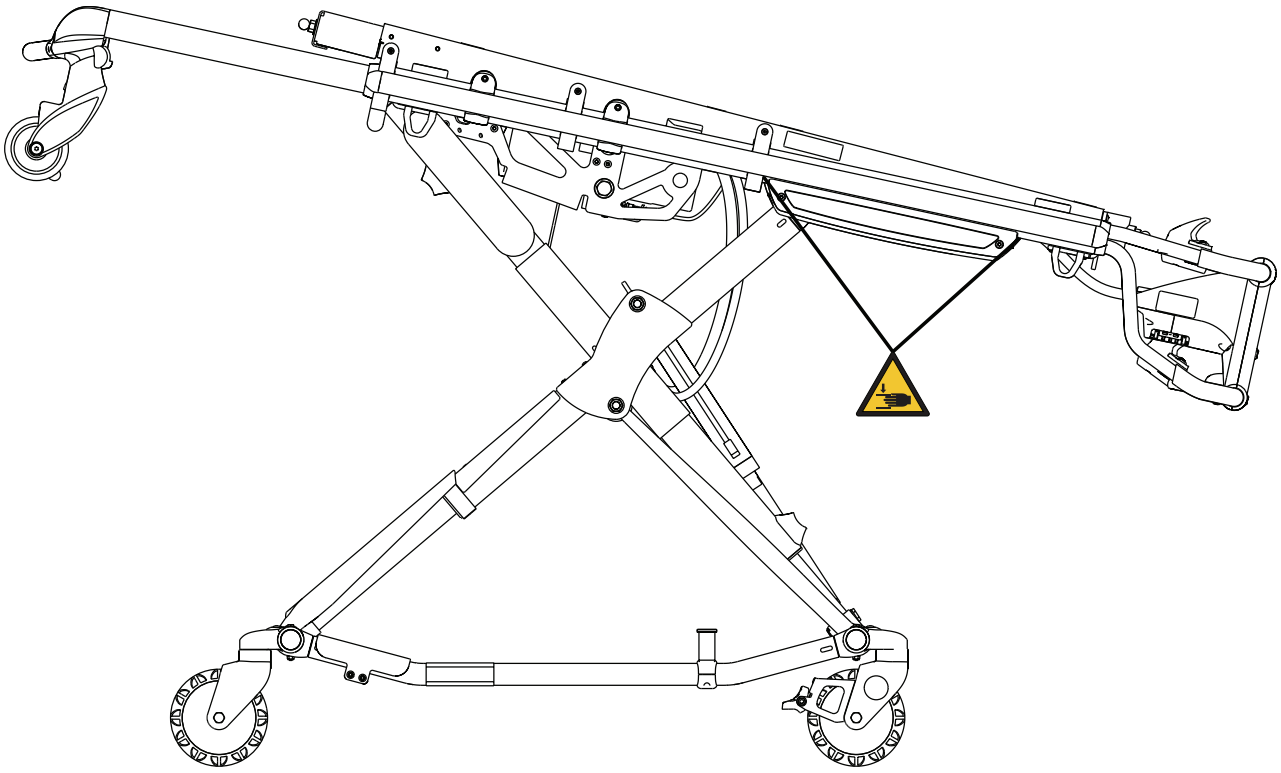


Figure 1: Pinch points

Introduction

This manual assists you with the operation or maintenance of your Stryker product. Read this manual before operating or maintaining this product. Set methods and procedures to educate and train your staff on the safe operation or maintenance of this product.

⚠ CAUTION

- Improper usage of the product can cause injury to the patient or operator. Operate the product only as described in this manual.
- Do not modify the product or any components of the product. Modifying the product can cause unpredictable operation resulting in injury to patient or operator. Modifying the product also voids its warranty.

Notes

- This manual is a permanent part of the product and should remain with the product even if the product is sold.
- Stryker continually seeks advancements in product design and quality. This manual contains the most current product information available at the time of printing. There may be minor discrepancies between your product and this manual. If you have any questions, contact Stryker Customer Service or Technical Support at 1-800-327-0770.

Product description

The Stryker Model 6516 **Power-PRO™** IT cot is a powered incubator transport ambulance cot. The cot consists of a platform, mounted on a wheeled X-frame, that is designed to support and transport a maximum weight of 700 lb (318 kg) in pre-hospital and hospital environments.

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

The **SMRT™** power system consists of a **SMRT** charger and a **SMRT** Pak. The **SMRT** Pak powers the hydraulic lift system of the Stryker powered ambulance cots.

Indications for use

The Stryker **Power-PRO** IT cot 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 lb (318 kg) (sum of the patient, incubator and accessory weight) and the intended operators of the device are trained professionals including nurses, doctors, emergency medical service and medical care center personnel, as well as medical first responders. Ambulance cots are intended for transportation purposes.

Power-PRO IT is not intended for extended stay or use as a hospital bed or in devices that modify air pressure, such as hyperbaric chambers.

Expected service life

Power-PRO has a seven year expected service life under normal use conditions and with appropriate periodic maintenance.

The **SMRT** charger has a seven year expected service life under normal use conditions and with appropriate periodic maintenance.

The **SMRT** Pak battery has a two year expected service life under normal use conditions.

Contraindications

None known.

Specifications - Power-PRO

	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
Single adjustable wheel lock/double adjustable wheel lock		Optional	
Hydraulic oil		Stryker part number 6500-001-293	
Power system			
Battery		24 VDC NiCd - **SMRT** power system	
Charger		100-240 VAC 1.20 A, 50/60 Hz or 12 VAC 4.16 A - **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	

Specifications - Power-PRO (Continued)

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

[2] Height is 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] Set the cot height to any ambulance deck height that ranges from 26 in. to 36 in. (66 cm to 91 cm).

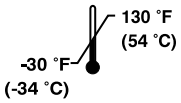
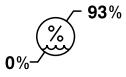
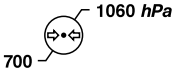
Stryker reserves the right to change specifications without notice.

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

Power-PRO IT is designed to be compatible with some competitive cot fastener systems.

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

Stryker hereby declares that this **Power-PRO** is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. Contact Stryker Medical at 3800 E. Centre Ave. Portage, MI 49002 Attn. Regulatory Affairs to obtain a copy of the original declaration of conformity.

Environmental conditions	Operation
Temperature	
Relative humidity	
Atmospheric pressure	

CAUTION

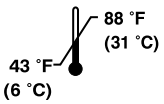
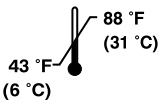
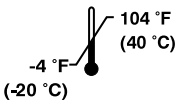
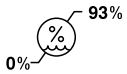
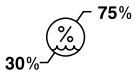
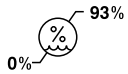
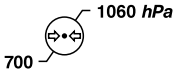
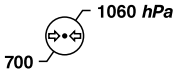
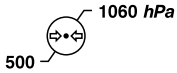
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, 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.

Specifications - SMRT

	SMRT charger	SMRT Pak	AC power supply
Electrical input	13.9 VDC 4.16 A	Not applicable	100-240 VAC 1.20 A 50/60 Hz
Electrical output	Open circuit 40 VDC 1.20 A	24 VDC NiCd	12 VDC 4.16 A
Height	2.375 in. (60.325 mm)	3.25 in. (82.55 mm)	1.61 in. (40.89 mm)
Width	5.125 in. (130.175 mm)	4 in. (101.6 mm)	2.56 in. (65.02 mm)
Length	7 in. (177.8 mm)	5.75 in. (146.05 mm)	4.72 in. (119.89 mm)

Specifications - SMRT (Continued)

	SMRT charger	SMRT Pak	AC power supply
Weight	1.3 lb (.59 kg)	3.8 lb (1.7 kg)	.61 lb (.28 kg)
Enclosure protection	IPX0	IPX6	IPX0
Equipment type	Not applicable	Not applicable	Class II
Approvals	ANSI/AAMI ES60601-1: 2005, CAN/CSA-C22.2 No. 60601-1:08	Not applicable	Not applicable

Environmental conditions	Operation	Charging	Storage and transportation
Temperature			
Relative			
Atmospheric pressure			

Specifications are approximate and may vary from unit to unit or as a result of power supply fluctuations.

Stryker reserves the right to change specifications without notice.

Product illustration - Power-PRO

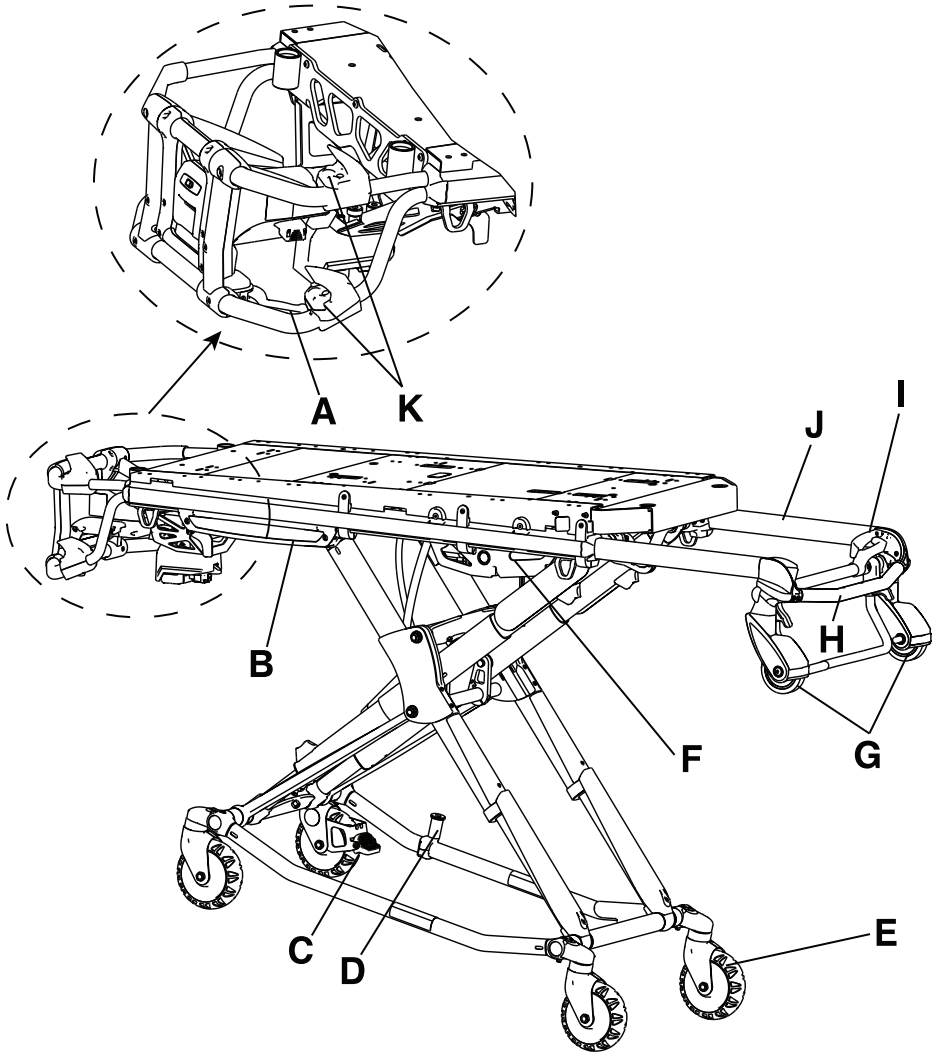


Figure 2: Power-PRO IT

A	Manual backup release handle
B	Height sensor housing
C	Wheel lock (optional)
D	Cot retaining post
E	Transport wheels
F	Hydraulic unit
G	Loading wheels
H	Head section release
I	Backrest
J	Retractable head section
K	Height adjustment switches

Product illustration - SMRT

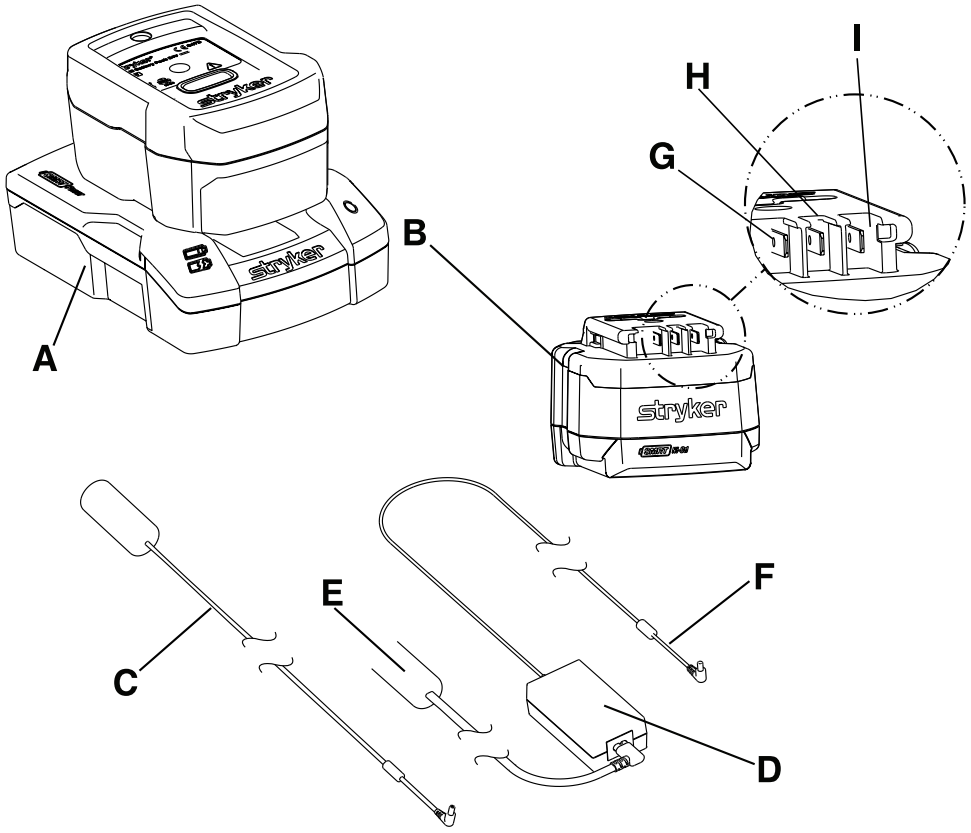


Figure 3: SMRT power system

A	**SMRT** charger	F	Output cord
B	**SMRT** Pak	G	Data
C	DC cable	H	Power (-)
D	AC power supply	I	Power (+)
E	AC power cord		

Contact information

Contact Stryker Customer Service or Technical Support at: 1-800-327-0770.

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

To view your operations or maintenance manual online, see https://techweb.stryker.com/.

Have the serial number (A) of your Stryker product available when calling Stryker Customer Service or Technical Support. Include the serial number in all written communication.

Serial number location - Power-PRO

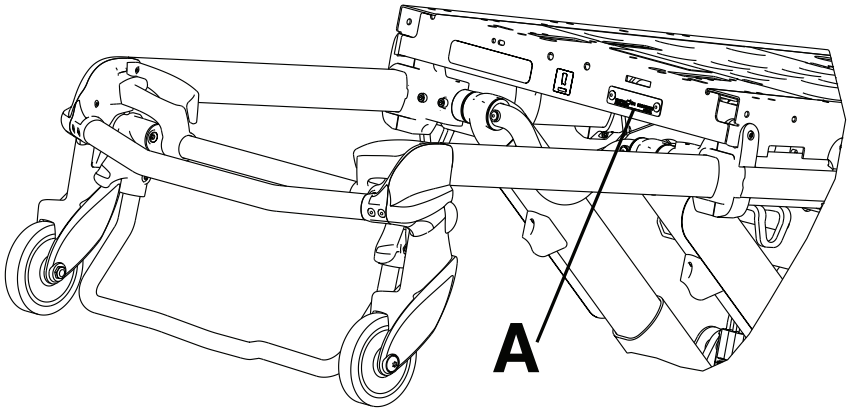


Figure 4: Serial number location

Serial number location - SMRT

The serial number for the **SMRT** charger is located on the bottom of the unit. The lot number for the **SMRT** Pak is located on the top of the **SMRT** Pak above the red release button.

Date of manufacture

The year of manufacture is the first 2 digits of the serial number for **Power-PRO**.

Cleaning procedure

WARNING

Always use any appropriate personal protective equipment, such as goggles or respirator, to avoid the risk of inhaling contagion during cleaning. Use of power washing equipment can aerate contamination that collects during the use of the product.

CAUTION

- Do not steam clean or ultrasonically clean the product.
- Do not exceed 180 ˚F (82 ˚C) as the maximum water temperature.
- Do not exceed 1500 psi (130.5 bar) as the maximum water pressure. If you are using a hand held wand to wash the product, keep the pressure nozzle at a minimum of 24 in. (61 cm) from the product.
- Always allow to air dry.
- Always remove the battery before you wash the cot.

The product is power washable. The product may show some signs of oxidation or discoloration from continuous washing. No degradation of the product's performance will occur from power washing as long as you follow the proper procedures.

- Follow the cleaning solution manufacturer's dilution recommendations exactly.
- The preferred method Stryker Medical recommends for power washing the product is with the standard hospital surgical cart washer or hand held want unit.
- Clean the cot once a month.

Suggested cleaners

In general, when used in 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 occur.

WARNING

Always wipe the product with clean water and dry after cleaning. Some cleaning products are corrosive in nature and may cause damage to the product. Failure to properly rinse and dry the product leaves a corrosive residue on the surface of the product and may cause premature corrosion of critical components.

Suggested cleaners include:

- 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. Do not allow the product to stay wet longer than the chemical manufacturer's guidelines for proper disinfecting.

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

Cleaning the charger

WARNING

- Always wear insulated rubber gloves, in addition to personal protective equipment, when cleaning the **SMRT** Pak to reduce the risk of injury.
- Always disconnect the **SMRT** charger from the wall outlet before cleaning to avoid the risk of electrical hazards.
- Do not spray fluid directly onto the **SMRT** charger.
- Do not power wash the **SMRT** charger.
- Do not use solvents, lubricants, or other chemicals to clean the **SMRT** charger unless otherwise directed.
- Do not immerse the **SMRT** charger in water or allow water to collect on top of the **SMRT** charger to avoid the risk of electric shock.

To clean the **SMRT** charger:

1. Disconnect the **SMRT** charger from the wall outlet to avoid electrical hazards during cleaning.
2. Wipe surfaces of the **SMRT** charger with a soft cloth dampened with a non-abrasive, hospital disinfectant.
3. Wipe with a cloth moistened with clean water to remove any cleaning chemicals or residue.
4. Dry thoroughly before placing the **SMRT** charger back into service.

Cleaning the battery

The **SMRT** Pak is designed to be power washable. The preferred method for power washing the **SMRT** Pak is with the standard hospital surgical cart washer or hand-held wand unit.

WARNING

- Always use any appropriate personal protective equipment while power washing to avoid inhaling contagion. Power washing equipment may aerate contamination.
- Always wear insulated rubber gloves, in addition to personal protective equipment, when cleaning the **SMRT** Pak to reduce the risk of injury.
- Always use only non-conductive materials to wipe the **SMRT** Pak.
- Always avoid excessive water exposure to the **SMRT** Pak terminals.
- Always refer to the disinfectant's Material Safety Data Sheet (MSDS) to verify the pH range. Disinfectants with pH levels higher than 10.5 may cause the **SMRT** Pak housing material to crack.
- Do not directly handle or make contact with the **SMRT** Pak terminals while cleaning to avoid the risk of injury.
- Do not immerse the **SMRT** Pak in liquid to reduce the risk of electric shock.
- Do not use solvents, lubricants, or other chemicals to clean the **SMRT** Pak unless otherwise directed.

CAUTION

- Do not steam clean or ultrasonically clean the **SMRT** Pak.
- Do not exceed 180 °F/82 °C as the maximum water temperature.
- Do not exceed 240 °F/115 °C as the maximum air dry temperature (cart washers).
- Do not exceed 1500 psi (130.5 bar) as the maximum water pressure. If you use a hand held wand to wash the product, keep the pressure nozzle at a minimum of 24 in. (61 cm) from the product.

Cleaning the battery (Continued)

To clean the **SMRT** Pak:

1. Remove the **SMRT** Pak from the **Power-PRO** cot or **SMRT** charger.
2. Inspect the **SMRT** Pak housing and terminal area for any cracks or damage.
3. Clean the **SMRT** Pak with a hospital grade disinfectant with a pH range of 6.5 to 10.5.
4. Rinse the **SMRT** Pak thoroughly with clean water to remove any cleaning chemical or residue. Position the **SMRT** Pak to avoid water from pooling near the terminals.
5. Dry the **SMRT** Pak thoroughly before insert the **SMRT** Pak into a **Power-PRO** cot or **SMRT** charger.

WARNING

- Always relieve pressure before you disconnect hydraulic or other lines. Escaping fluid under pressure can penetrate the skin and cause serious injury. Tighten all connections before you apply pressure. If an accident occurs, see a doctor immediately.
- Do not use bare hands to check for hydraulic leaks.

CAUTION

- Always use authorized parts to avoid the risk of product damage.
- Always check hoses and lines regularly to avoid damage to the cot. Check and tighten loose connections. Hydraulic lines, hoses, and connections can fail or loosen due to physical damage, kinks, age, and environment exposure.
- Do not tip the cot onto its load wheels and actuate the product as this will allow air to enter the hydraulic system.

Establish and follow a maintenance schedule and keep records of the maintenance activity. Remove product from service before you perform the preventive maintenance inspection. You may need to perform preventive maintenance checks more often based on your level of product usage. Service only by qualified personnel.

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

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.

Regular inspection and adjustments

The following schedule is a general guide to maintenance. Factors such as weather, terrain, geographical location, and individual usage will alter the required maintenance schedule. If you are unsure how to perform these checks, contact your Stryker service technician. If you are in doubt as to what intervals to follow to maintain your product, consult your Stryker service technician. Check each routine and replace worn parts if necessary.

Every month or two hours

Inspect these items every month or two hours, whichever comes first.

Item	Inspect
Settings	In-fastener shutoff configuration
Cylinder	Extend cylinder rod. Wipe the cylinder rod with a soft cloth and household cleaner.
Cables and wires	No hanging wires from routings or connections
Manual backup release handle	Manual backup release handle functions
Litter	Frame and litter
Base	Frame and base
Wheels	All wheels are secure, roll, and swivel

Regular inspection and adjustments (Continued)

Item	Inspect
Head section	Safety bar operates. Pull toward the head section to make sure that the safety bar swings and rotates freely and pulls back to the home position
Battery	**SMRT** Pak housing and terminal area for cracks or damage before first and every use
Charger	**SMRT** charger and parts for cuts in the cord, bent pins or contacts, or cracks in the housing before first and every use

Every three months or six hours

Inspect these items every three months or six hours, whichever comes first.

Item	Inspect
Cylinder	All fasteners are secure
	No hydraulic fluid (red) leaks
	Loose fittings - tighten, if needed
Hydraulics	Motor mount fasteners are secure
	No hydraulic fluid leaks
	No leaks from reservoir
Cables and wires	No damage or pinching of wiring harness, cable, or lines
	No damaged connectors
Manual backup release handle	Base extends and retracts when you pull the manual backup release handle
	Cot does not lower when you pull the manual backup release handle with 100 lb (45 kg) or more on the cot
Litter	All fasteners are secure
	Backrest cylinder operates
	Adjust pneumatic cylinder for full range of motion, if required
Base	All fasteners are secure
X-frame	X-frame expands and retracts
Head section	All fasteners are secure
	Head section extends and locks

Every six months or 12 hours

Inspect these items every six months or 12 hours, whichever comes first.

Regular inspection and adjustments (Continued)

Item	Inspect
Hydraulics	Hoses and fittings for damage or wear
	Hydraulic velocity fuse - place a weight of approximately 50 lb (23 kg) on the cot, raise the cot, lift the cot with two operators, pull the manual backup release handle, rapidly set the cot down, and make sure that the cot does not drop
Electronic controls	Extend cot to raised position, measure and check load height
	Jog function operates
	High speed retract works
Switches	No damage or wear to either switch
	Both switches operate
Litter	No bent, broken, or damaged components
	No damage or tears on cot grips
Base	No bent, broken, or damaged components
	Cot retaining post is secure. If not, replace the screw
	No excessive damage to X-frame guards
Wheels	Free of debris
Head section	No bent, broken, or damaged components
	Grip bar has no excessive damage or tears
	Load wheels are secure and roll

Every 12 months or 24 hours

Inspect these items every 12 months or 24 hours, whichever comes first.

Item	Inspect
Settings	Cot and fastener fit and function
	Safety bar connects to the vehicle safety hook
Cylinder	Cylinder is adjusted - lock nut is tight and the cot stops moving when it hits the dead stops
Manual backup release handle	Returns to the stowed position
Litter	All welds are intact, not cracked, or broken
	Warning labels present, legible
Base	All welds are intact, not cracked, or broken
Wheels	Check and adjust wheel locks

Regular inspection and adjustments (Continued)

Maintenance record

Date	Maintenance operation performed	By	Hours

Regular inspection and adjustments (Continued)

Training record

	Training date		
Trainee name	**Basic training**	**Refresher update**	**Owner's manual, in-service, formal class, etc.**

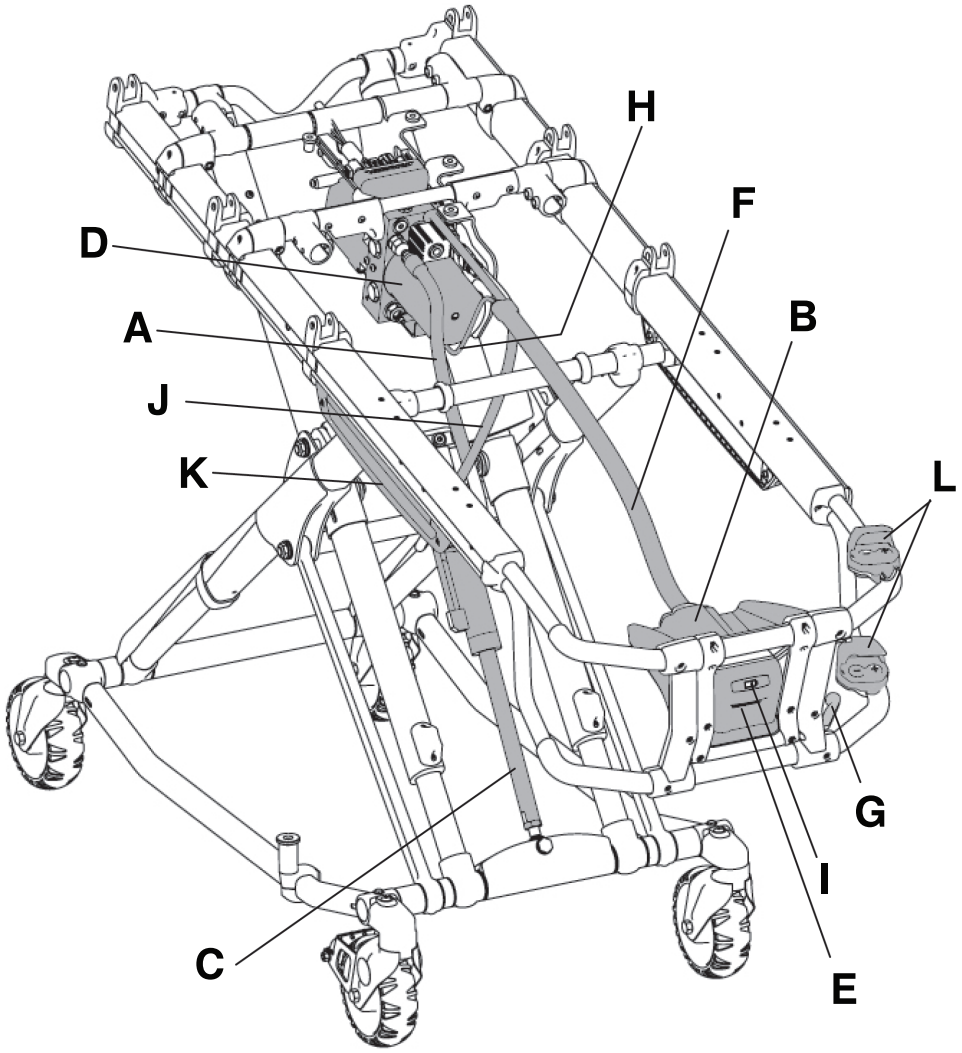
Quick reference replacement parts

These parts are currently available for purchase. Call Stryker Customer Service: 1-800-327-0770 for availability and pricing.

Name	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
SMRT charger	6500-201-000
Charger power supply	6500-201-148
Kit, battery pack, **SMRT** Pak	6500-700-046
Kit, **SMRT** power system 12 VDC (car charger), includes charger, 2 Paks, and power cord	6500-700-040
Kit, **SMRT** power system 120 VAC (wall charger), includes charger, 2 Paks, and power cord	6500-700-041
Mounting bracket, **SMRT** charger	6500-201-100
North America power cord	6500-201-149
12 VDC cable, automotive	6500-201-147
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	6086-200-010

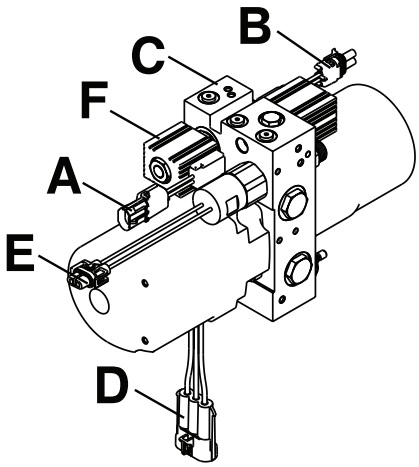
Electronics and hydraulics locator

Note: Some components have been removed for clarity.



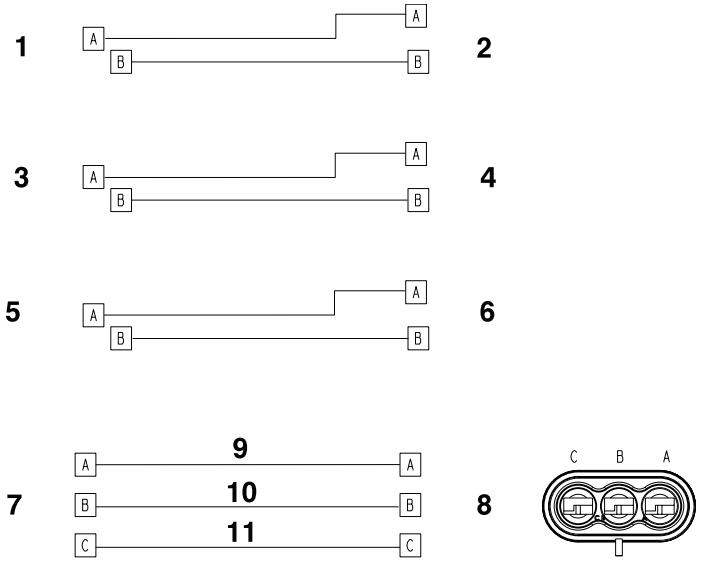
A	Cap-side hydraulic hose	G	Manual backup release handle
B	Electronic housing (control board inside)	H	Manual release cable
C	Hydraulic cylinder	I	Power indicator LED
D	Hydraulic manifold assembly	J	Rod-side hydraulic hose
E	LCD screen	K	Sensor housing (hall effects sensor inside)
F	Main cable	L	Switches, height adjustment

Hydraulic assembly



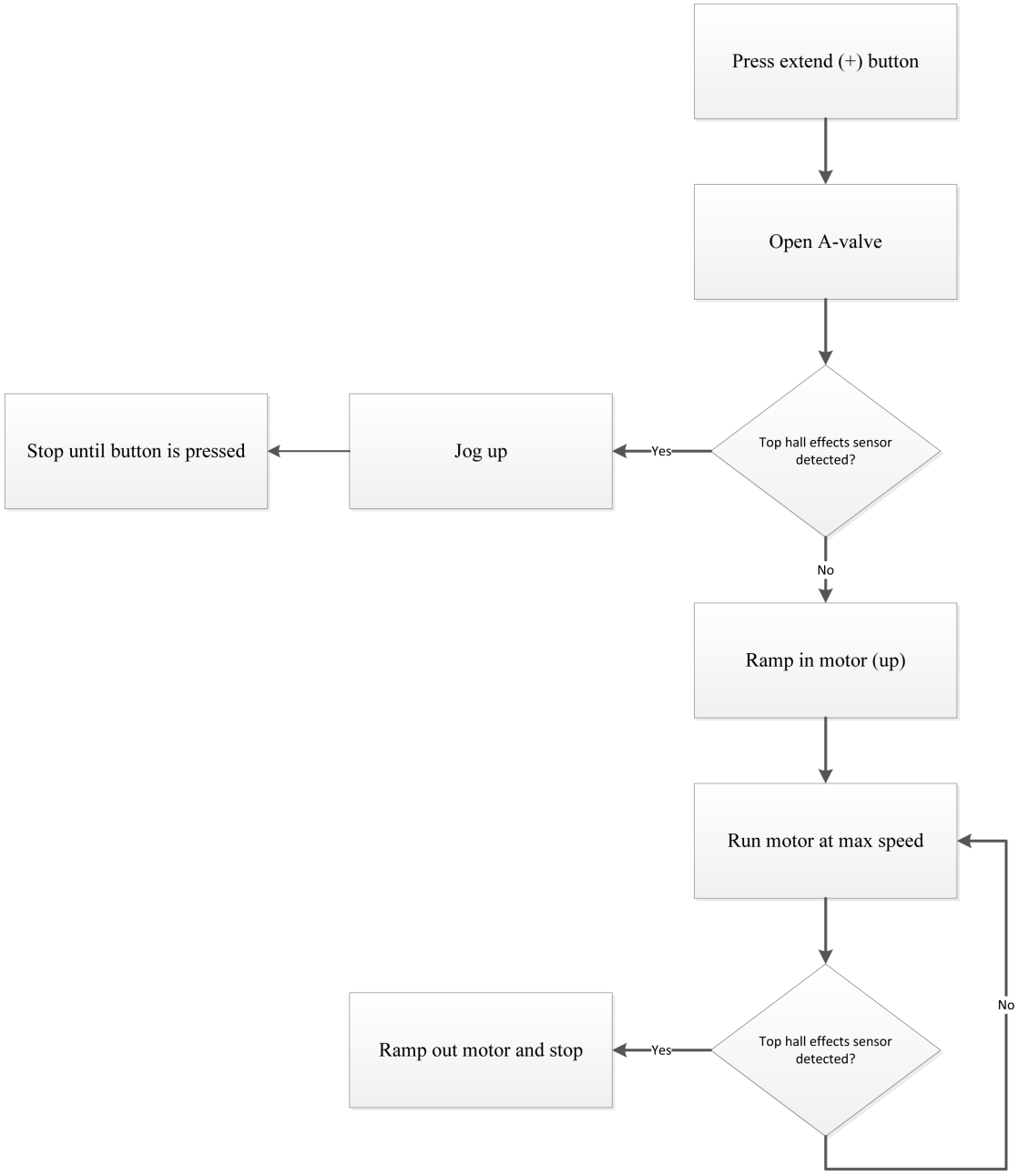
A	A-valve connector	D	Motor connector
B	B-valve connector	E	Pressure switch
C	Hydraulic manifold	F	Pressure switch connector

Hydraulic assembly wiring schematics

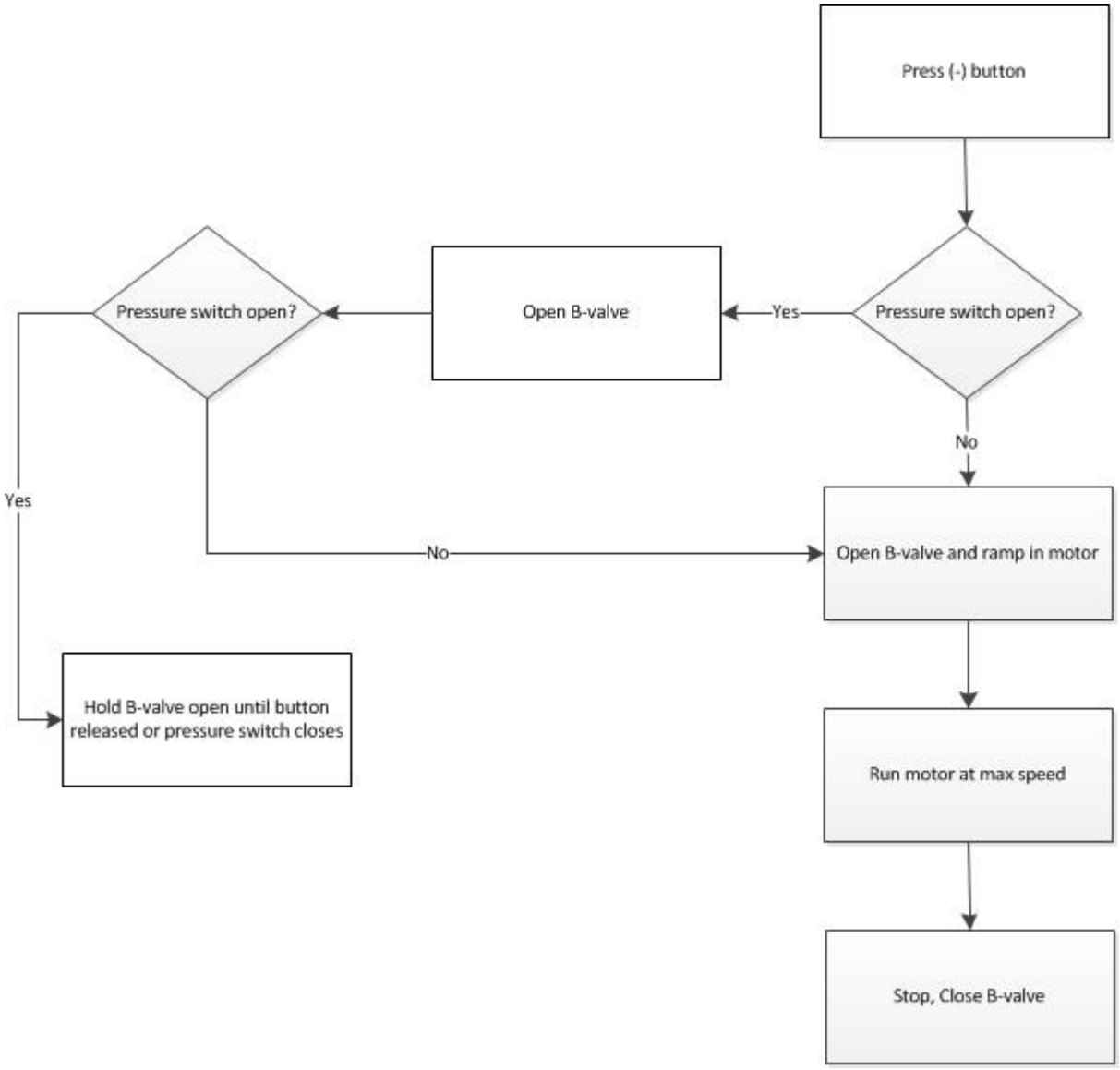


1	Pressure switch	7	Motor
2	Pressure switch connector	8	Motor connector
3	A-valve solenoid	9	Blue
4	A-valve connector	10	Black
5	B-valve solenoid	11	Green
6	B-valve connector		

Electrical system block diagram - lift and extend (unload) functions



Electrical system block diagram - lower and retract functions



SMRT charger power LED is NOT illuminated

Make sure that the AC power supply or DC cable is connected properly.

1. If using an AC power supply, make sure that the:
   a. AC power cord is plugged into a wall outlet and the wall outlet has AC power.
   b. AC power cord is plugged into the power supply.
   c. AC power supply output cord is plugged into the charger.
2. If using a DC cable, make sure that the:
   a. DC cable is plugged into a power source with 12.5 - 16 VDC
      Note: The DC power supply output cord adaptor LED should be illuminated.
   b. Power cord adaptor internal fuse has continuity. If not, replace the fuse. See 12 VDC automotive cable fuse replacement on page 45.

SMRT charger power LED is NOT illuminated (Continued)

c. DC cable is plugged into the charger.

3. Check for 12.5 to 16 VDC at the power supply output cord that plugs into the charger.
   a. If 12.5 to 16 VDC is not present, replace the power supply assembly.
   b. If 12.5 to 16 VDC is present, replace the charger.

SMRT charger will not charge the SMRT Pak

1. Make sure that the charger power LED is illuminated.
   a. If not, see SMRT charger indicator LEDs are NOT illuminated when the Pak is inserted on page 27.
2. Make sure that the charger indicator LEDs flash when the charger is first powered.
   a. If the LEDs flash at start up, go to step 3.
   b. If the LEDs do not flash at start up, replace the charger.
3. Reinsert the **SMRT** Pak on the charger and check the charger indicator LEDs for the status of the **SMRT** Pak:
   a. Solid amber = a **SMRT** Pak error. See A fully charged SMRT Pak does not provide sufficient power for cot operation on page 27.
   b. Flashing amber = a temperature delay. Allow the **SMRT** Pak time to get to normal operating temperature. Reinstall the **SMRT** Pak and recheck step 3.
   c. Solid green = a fully charged and ready **SMRT** Pak. See A fully charged SMRT Pak does not provide sufficient power for cot operation on page 27.

SMRT charger indicator LEDs are NOT illuminated when the Pak is inserted

1. Unplug the charger, wait five seconds, and plug the charger back into the wall outlet.
2. Make sure that the charger power LED is illuminated. If not, see SMRT charger power LED is NOT illuminated on page 26.
3. Make sure that the **SMRT** Pak is fully inserted into the charger. If not, reinsert the **SMRT** Pak fully, listen for an audible click, and make sure that the charger indicator LEDs illuminate.
4. Try another **SMRT** Pak to identify any issues.
   Note: Separate and label **SMRT** Paks during troubleshooting.
   a. If the charger indicator LEDs do not illuminate, replace the charger.
   b. If the charger indicator LEDs illuminate, replace the original **SMRT** Pak.

A fully charged SMRT Pak does not provide sufficient power for cot operation

1. Fully charge the **SMRT** Pak for two hours.
   a. If the charger indicator LED is solid green, indicating a fully charged and ready **SMRT** Pak, go to step 2.
   b. If the charger indicator LED is solid amber, indicating a **SMRT** Pak error, replace the **SMRT** Pak.
2. Immediately following a full charge, remove the **SMRT** Pak from the charger and check the voltage at the power terminals on the Pak for 26 VDC minimum.
   a. If the Pak has a 26 VDC minimum, go to step 3.
   b. If the VDC is less than 26 VDC, replace the Pak.
3. Wait exactly one hour and charge the **SMRT** Pak again.
   a. If the charger indicator LED turns solid green (indicating a fully charged and ready **SMRT** Pak) in less than one minute, call Stryker Technical Support.

A fully charged SMRT Pak does not provide sufficient power for cot operation (Continued)

b. If the charger indicator LED flashes green for longer than one minute, replace the Pak.

Charger indicates a temperature delay (flashing amber LED), but the Pak is within the normal operating temperature range

1. Remove the **SMRT** Pak from the charger and allow the Pak to cool for at least four hours at room temperature.
2. Insert the Pak into the charger.
   a. If the charger indicator LED is flashing green, then the Pak is charging.
   b. If the charger indicator LED is flashing amber, indicating a temperature delay, replace the Pak.

SMRT charger indicates a SMRT Pak error (amber LED), but the Pak performs well on the cot

1. Fully discharge the **SMRT** Pak by powering a cot until the cot indicator LED flashes red.
2. Recharge the Pak.
   a. If the charger indicator LED is solid green, indicating a fully charged and ready Pak, then the Pak is ready for use.
   b. If the charger indicator LED is solid amber, indicating a Pak error, call Stryker Technical Support.

Litter drifts (without patient weight)

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 Stryker service technician at (800) 327-0770.

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.

Litter does not lower in the powered mode (Continued)

4. Check for 24 VDC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenoid, and/or ‘B’ valve. If voltage is not present, go to step 5.
5. Check for 24 VDC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness.

    a. If the green light turns on, but does not lower, try the other switch. If the other switch works, replace the bad switch.

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 24 VDC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenoid, and/or ‘B’ valve. If voltage is not present, go to step 5.
5. Check for 24 VDC on electronics assembly pins 1 blue and 5 orange on (F) while pressing the retract (-) button. If voltage is not present, replace the electronics assembly. If voltage is present, replace the wire harness.

    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:
        - Check the manual release cable for too much tension.
        - Lightly tap the manual locking valve.
        - 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:
        - Check for 24 VDC 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 subassembly.
        - If voltage is not present, go to the next step.
        - Check for 24 VDC on the 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.

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 24 VDC at connector (C) on the main cable by the motor while pressing the retract (-) button. If voltage is present, replace (in order) the hall effects sensor, solenoid, and/or ‘B’ valve. If voltage is not present, go to step 5.
5. Check for 24 VDC on the 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.

Base does not extend in the manual mode

1. Check the manual cable adjustment.

Base does not extend in the manual mode (Continued)

2. Change the non-locking manual valve.

Base does not retract in the manual mode

1. Check the manual release cable adjustment.
2. Change the 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.

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	Valves 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

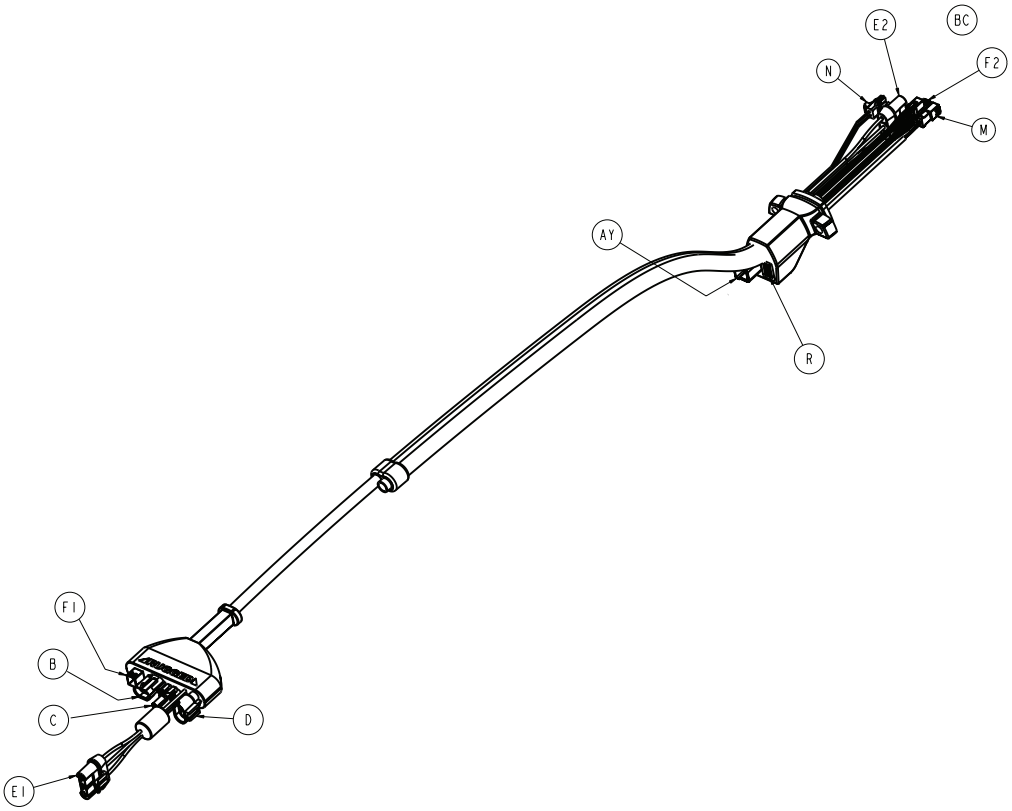
LCD error codes - main micro (Continued)

LCD display	Error description	Detection period
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

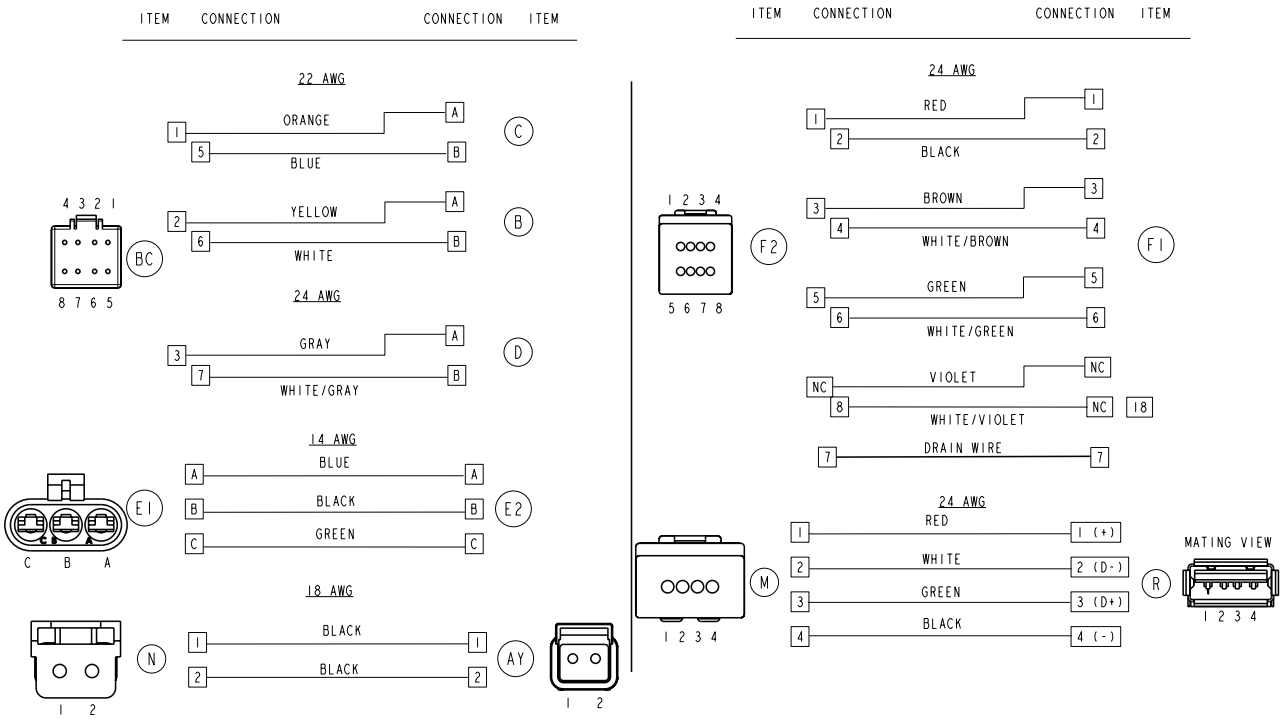
Safety micro

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

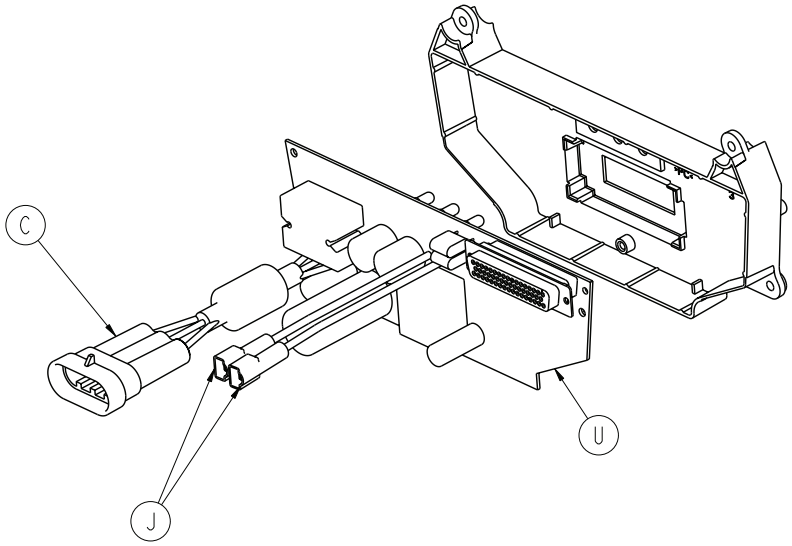
Main cable assembly



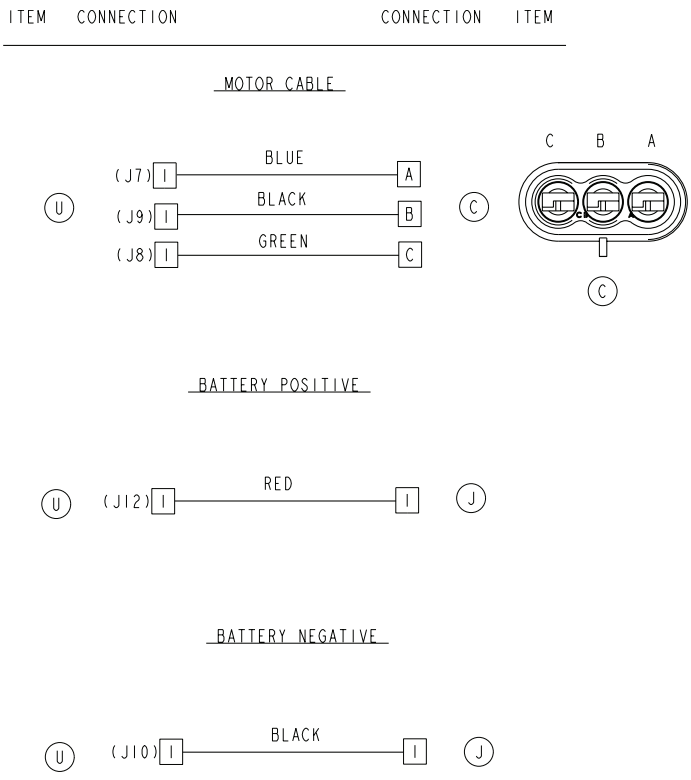
Main cable assembly wiring schematics



Control board assembly



Control board wiring schematics



Head section replacement

Tools required:

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

1. Raise the product to the highest height 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 5 on page 34).

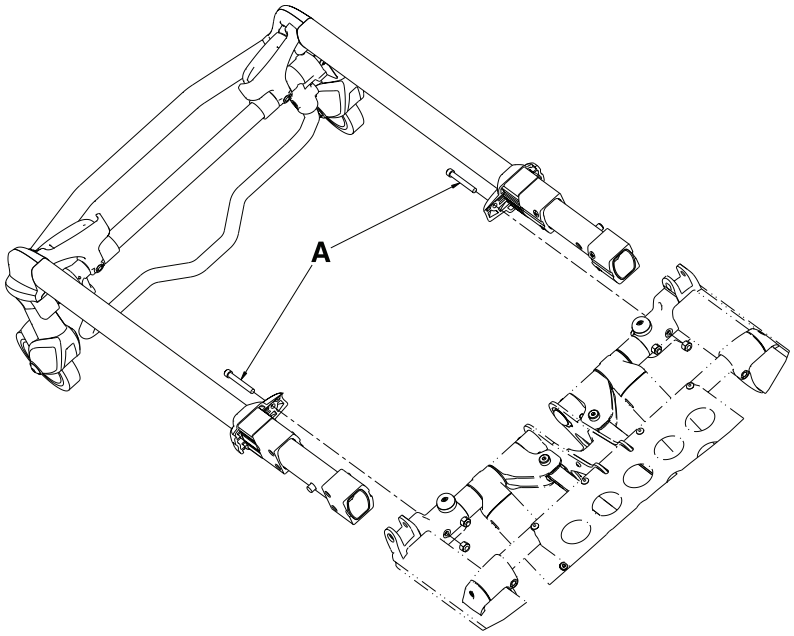


Figure 5: Head section

3. Squeeze the head release handles and remove the head section assembly.
4. Reverse steps to reinstall.
5. Verify proper operation of the product before returning it to service.

Manual release cable adjustment

Tools required:

- 8 mm Combination wrench
- 10 mm Combination wrench
- (2) Weights (50 lb each)

1. Support the litter so no weight is on the base.
2. Make sure that the manual release cable is intact (A). (Figure 6 on page 35).
3. Using a 10 mm combination wrench, loosen the cable lock nut (B). (Figure 6 on page 35).
4. Using an 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 6 on page 35).

   Note: Make sure that the manual release dual pull bracket is not tight against the manual valve nuts.
5. Tighten the cable lock nut.
6. Test for proper adjustment as follows:

Manual release cable adjustment (Continued)

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 the highest height position, pull the manual release handle, and make sure that the cot does not drop.

d. Remove 100 lb of weight, raise the cot to full height, pull the manual release handle, and make sure that the cot drops.

Note: If steps a-d do not work properly, repeat steps 3-6.

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

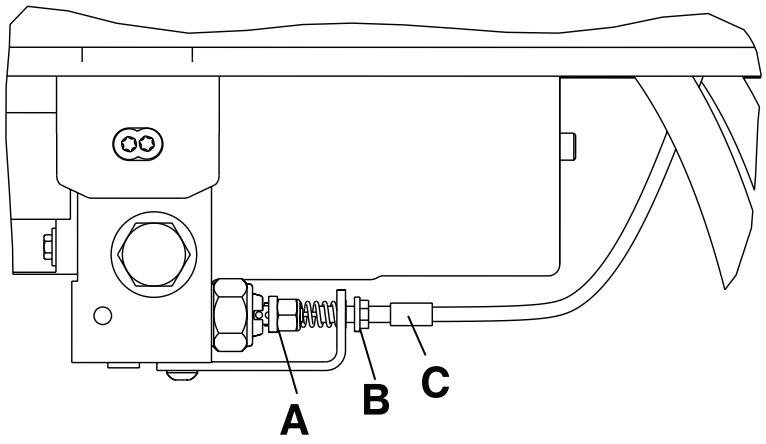


Figure 6: Manual release cable

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

1. Raise the product to the highest height position.
2. Make sure that the fill port is horizontal and lined up with the hole in the motor mount.
3. Using a 3/16” hex wrench, remove the port plug (A). (Figure 7 on page 36).
4. Fill the reservoir up to the bottom of the fill port.
5. Replace the plug and raise and lower the cot a few times.
6. Verify proper operation of the product before returning it to service.

Filling the hydraulics assembly reservoir (Continued)

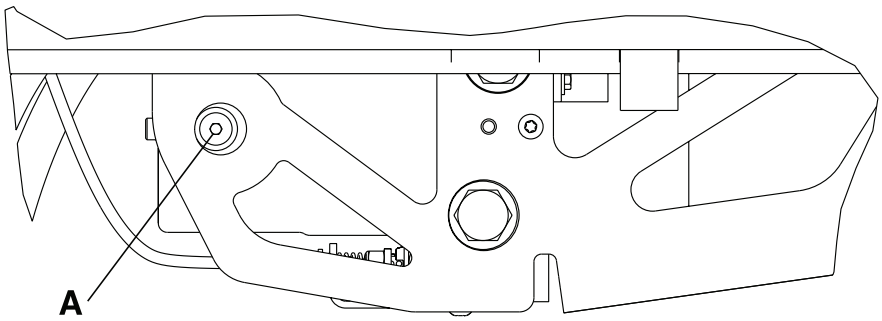


Figure 7: Hydraulic assembly reservoir

Wheel locking force adjustment

Tools required:

- 5/32” Hex wrench
- 7/16” Combination wrench or socket

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 8 on page 36).
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 8 on page 36).
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 make sure that the pedal holds properly before returning it to service.

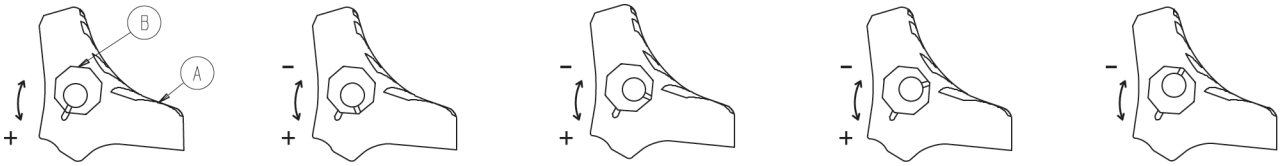


Figure 8: Wheel locking force adjustment

Steer-lock mechanism adjustment

Tools required:

- 9/16” Combination wrench

1. **If your steer-lock mechanism will not engage**:
   a. Using a 9/16" combination wrench, adjust the barrel nuts toward the foot end of the cot. (Figure 9 on page 37).
   b. After adjustment, make sure that a minimum of one full thread is exposed on each side of the barrel nut.
2. **If your steer-lock mechanism will not disengage**:
   a. Using a 9/16" combination wrench, adjust the barrel nuts toward the head end of the cot. (Figure 10 on page 37).
   b. After adjustment, make sure that a minimum of one full thread is exposed on each side of the barrel nut.

Steer-lock mechanism adjustment (Continued)

Figure 9: Barrel nut at the foot end

Figure 10: Barrel nut at the head end

Cot retaining post adjustment

Tools required:

- T30 Torx driver

CAUTION

The cot retaining post is shipped pre-configured for an X-frame cot. If the fastener has been configured for an H-frame cot, you must adjust the retaining post to accommodate the fastener.

1. Using a T30 Torx driver, remove the two socket head cap screws (A) that hold the brackets (B) to the base frame (C) (Figure 11 on page 37). Save the screws.

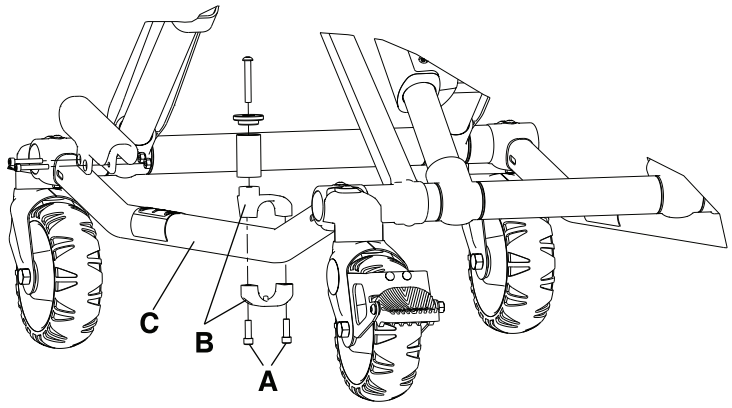


Figure 11: Cot retaining post

2. Turn the bottom bracket 180˚.
3. Using a T30 Torx driver, reinstall the two socket head cap screws that were removed in step 1.
4. Verify proper operation of the product before returning it to service.

Cot retaining post adjustment (Continued)

To determine if your cot is an X-frame or H-frame cot, look for an arrow or groove on the bottom bracket of the cot retaining post.

- The cot retaining post is set for an X-frame cot if the arrow on the bottom bracket of the retaining post points toward the head end of the cot or if the groove in the bottom bracket is located on the inside of the patient left side of the base tube.
- The cot retaining post is set for an H-frame cot if the arrow on the bottom bracket of the retaining post points toward the foot end of the cot or if the groove in the bottom bracket is located on the outside of the patient left side of the base tube.

Cot retaining post replacement

Tools required:

- T30 Torx driver
- 5/32” Hex wrench
- Torque wrench (in-lb)

1. Raise the product to the highest height position.
2. Turn the cot on the patient left side.
   Note: Locate the arrow or groove on the bottom bracket. The replacement retaining post bracket will need to be assembled in the same orientation.
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 12 on page 38). 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 12 on page 38).
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 12 on page 38). 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 brackets and insert two socket head cap screws (A) into the threaded holes of the bottom pin bracket (G) (Figure 12 on page 38).
7. Using a T30 Torx driver, tighten the two socket head cap screws completely.
8. Verify proper operation of the product 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.

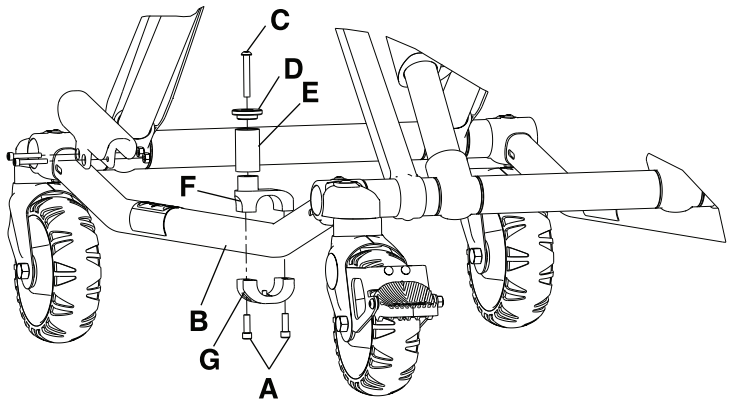


Figure 12: Cot retaining post replacement

Cot retaining post screw replacement

Tools required:

- T25 Torx driver
- 5/32” Hex wrench
- Torque wrench (in-lb)

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 (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 on page 38).
3. Verify proper operation of the product before returning it to service.

Hydraulic A valve or B valve replacement

Tools required:

- T25 Torx driver
- 3/4” Combination wrench
- 7/8” Combination wrench
- (2) Saw horse

1. Raise the product to the highest height position.
2. Using two saw horses, support the litter. 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 13 on page 40). Save the nut for reinstallation.
6. Remove the solenoid from the valve. Save the solenoid.
7. Using a 7/8" combination wrench, remove the A valve or B valve from the hydraulic subassembly. (Figure 13 on page 40).

   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 raising and lowering the cot several times. If necessary, add hydraulic oil (see).
10. Verify proper operation of the product before returning it to service.

Hydraulic A valve or B valve replacement (Continued)

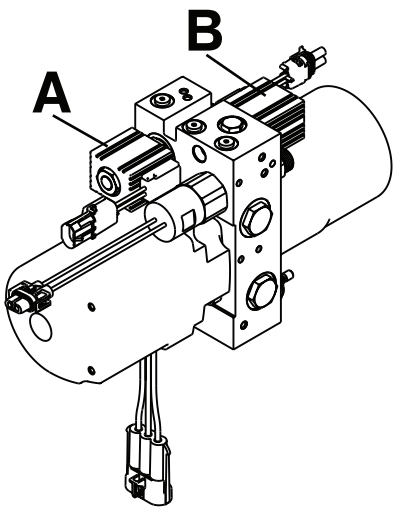


Figure 13: Hydraulic A valve or B valve replacement

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

1. Raise the product to the highest height position.
2. Using two saw horses, support the litter. 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 14 on page 41).
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 14 on page 41).
6. Using a 7/8" hex wrench, remove the valve (C or D) to be replaced. (Figure 14 on page 41).
7. Reverse steps to reinstall.
8. Check functionality by raising and lowering the cot several times. If necessary, add hydraulic oil (see).
9. Verify proper operation of the product before returning it to service.

Hydraulic manual release valve replacement (Continued)

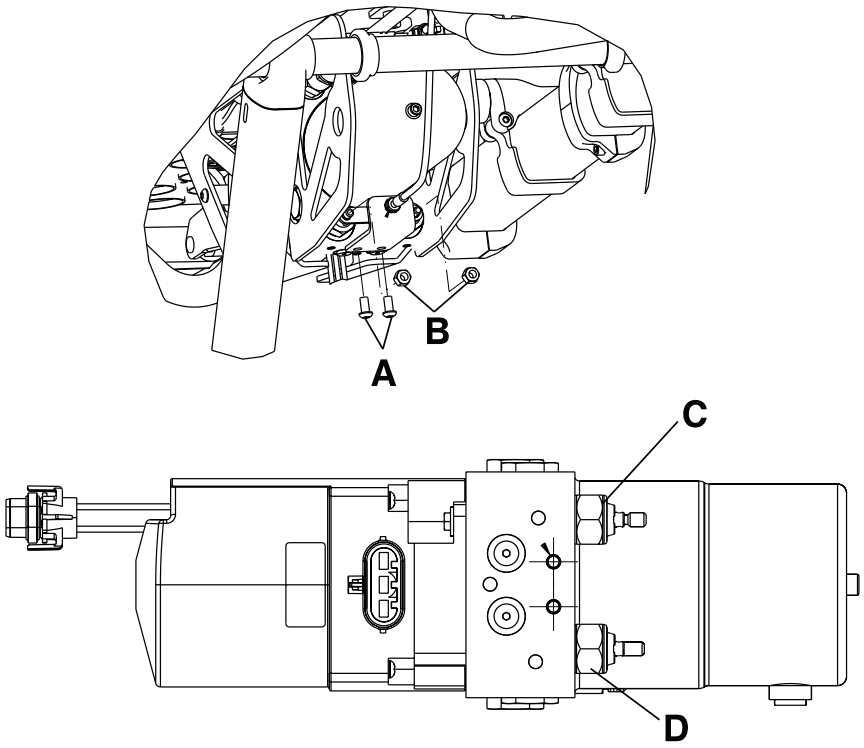


Figure 14: Hydraulic manual release valve

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

1. Raise the product to the highest height position.
2. Using two saw horses, support the litter. Activate the manual release handle. Manually compress the 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 15 on page 42).
4. Activate the manual release handle and fully compress the hydraulic cylinder.
5. Using an 11/16" combination wrench and a 13/16" combination wrench, remove both hoses (D) from the hydraulic cylinder (E). (Figure 15 on page 42).

   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 15 on page 42).

Hydraulic cylinder replacement (Continued)

8. Reverse steps to reinstall.
9. Check functionality by raising and lowering the cot several times. If necessary, add hydraulic oil (see).
10. Verify proper operation of the product before returning it to service.

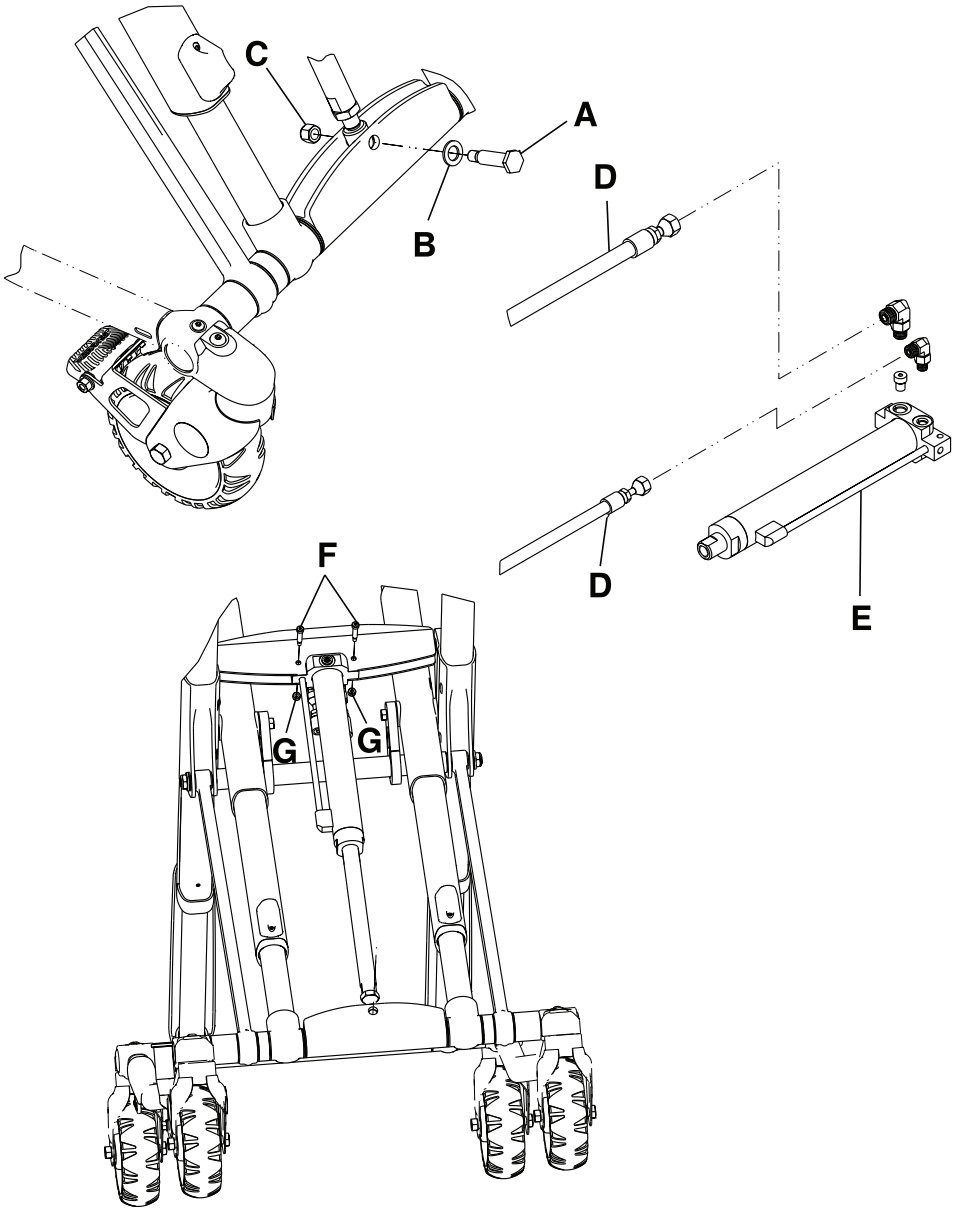


Figure 15: Hydraulic cylinder replacement

Hydraulic hose replacement

Tools required:

- 11/16” Combination wrench
- 13/16” Combination wrench

Hydraulic hose replacement (Continued)

- (2) Saw horse

1. Raise the product to the highest height position.
2. Using two saw horses, support the litter. Activate the manual release handle to relieve any hydraulic oil pressure.
   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.
3. Using a 11/16" combination wrench and a 13/16" combination wrenches, remove the damaged hose (A or B). (Figure 16 on page 43).
4. Reverse steps to reinstall.
5. Check functionality by raising and lowering the cot several times. If necessary, add hydraulic oil (see).
6. Verify proper operation of the product before returning it to service.

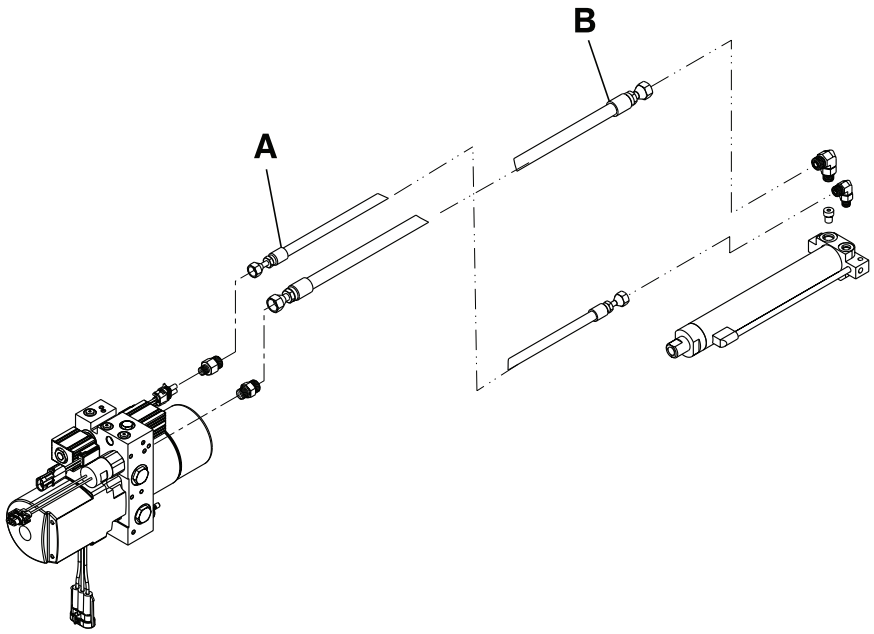


Figure 16: Hydraulic hose replacement

Terminal block replacement

Tools required:

- T20 Torx driver
- T25 Torx driver

1. Raise the product to the highest height 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 17 on page 44). 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 17 on page 44). 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 17 on page 44). Save all parts for reinstallation.

Terminal block replacement (Continued)

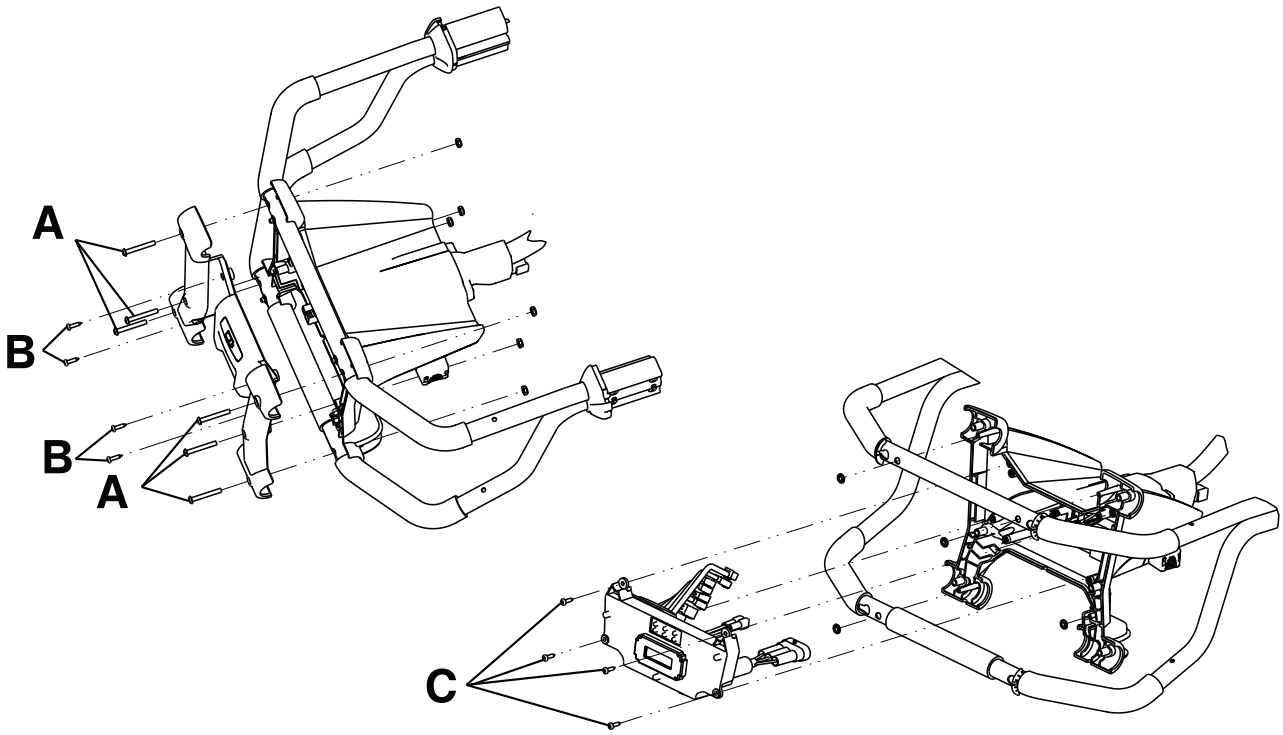


Figure 17: Terminal block replacement

6. Unplug the black and red wires that connect the cot connector cable assembly (D) to the control board (E). (Figure 18 on page 45).
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 18 on page 45). Save all parts for reinstallation.

Terminal block replacement (Continued)

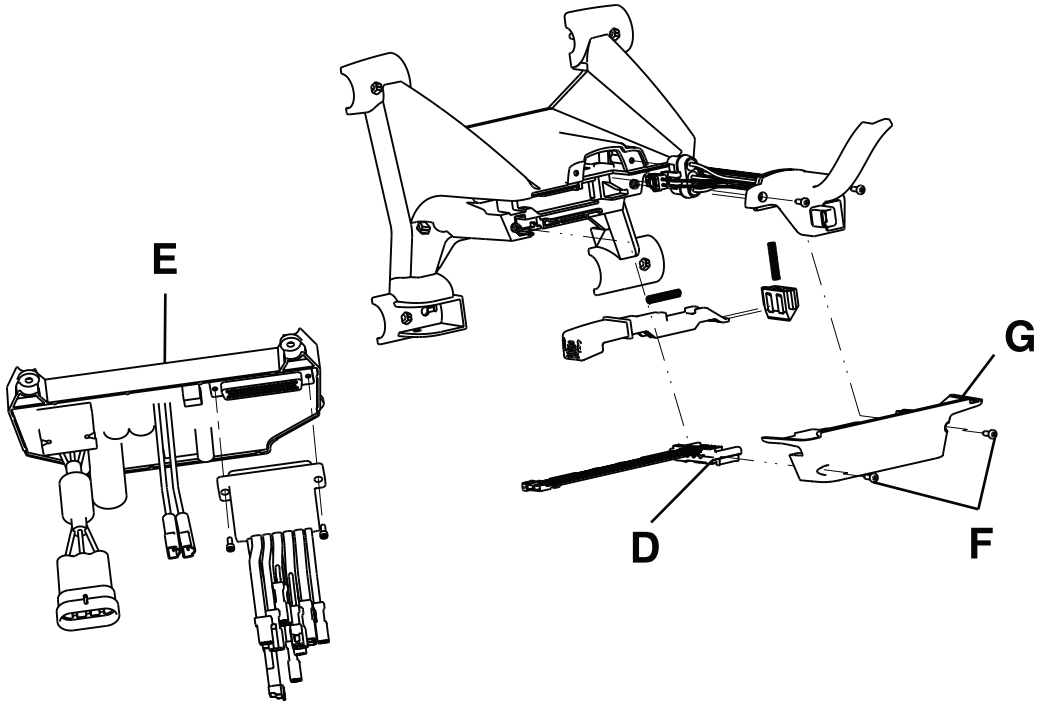


Figure 18: Control board and cot connector cable assembly

8. Remove the terminal block and discard.
9. Reverse steps to reinstall.
10. Check functionality by raising and lowering the cot several times.
11. Verify proper operation of the product before returning it to service.

12 VDC automotive cable fuse replacement

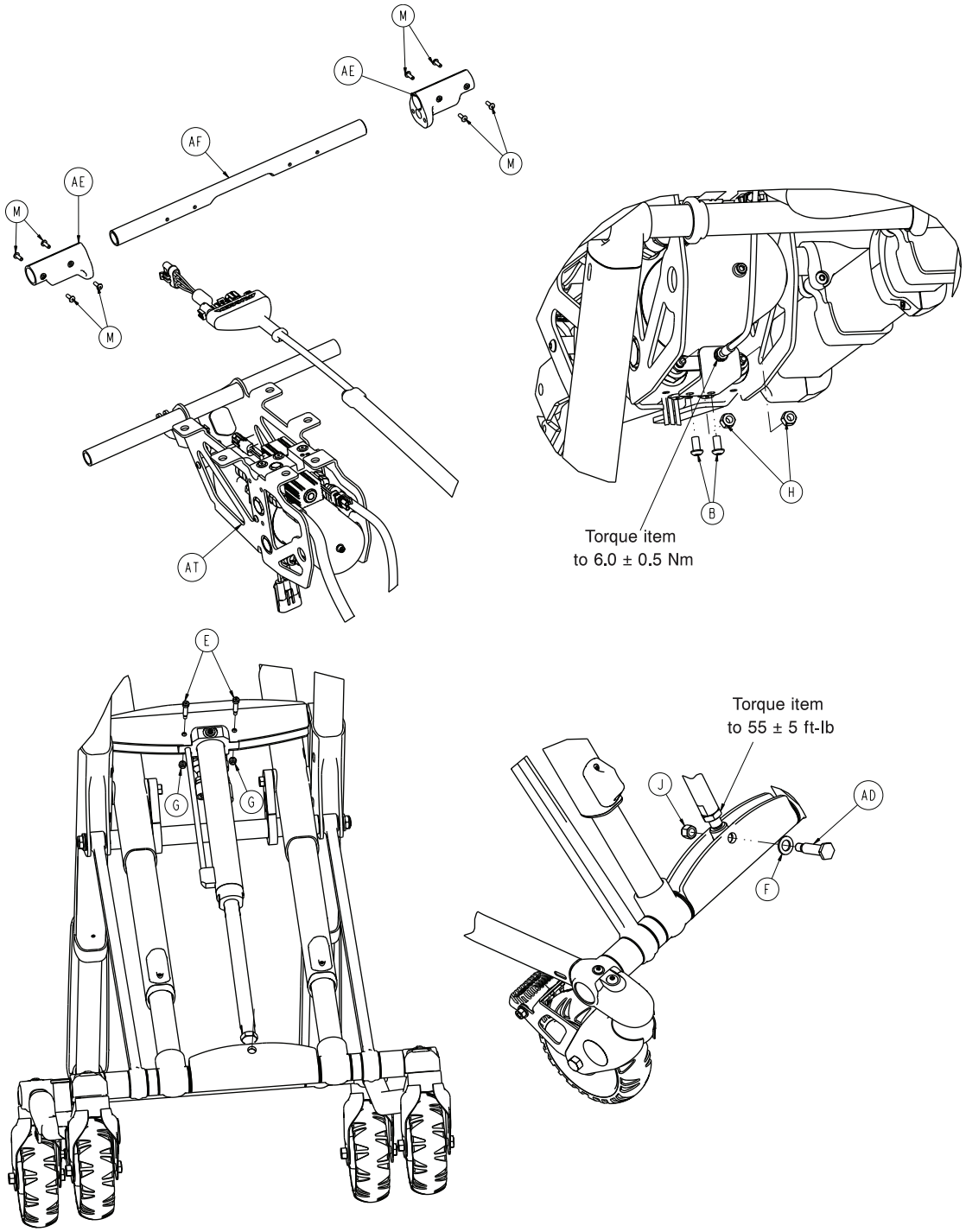
Tools required:
- None

1. Unplug the adaptor cable from the plug (B) and the plug connector (A).
2. Unscrew the tip on the source end and remove the fuse (Figure 19 on page 46).
   Note: The source tip and the fuse tension spring are loose and could be dropped.
3. Install the new 10A 250V fuse into the source end of the adaptor cable and screw the tip back on.
4. Plug both ends back into the source and the charger.
5. Test the charger for functionality before returning it to service.

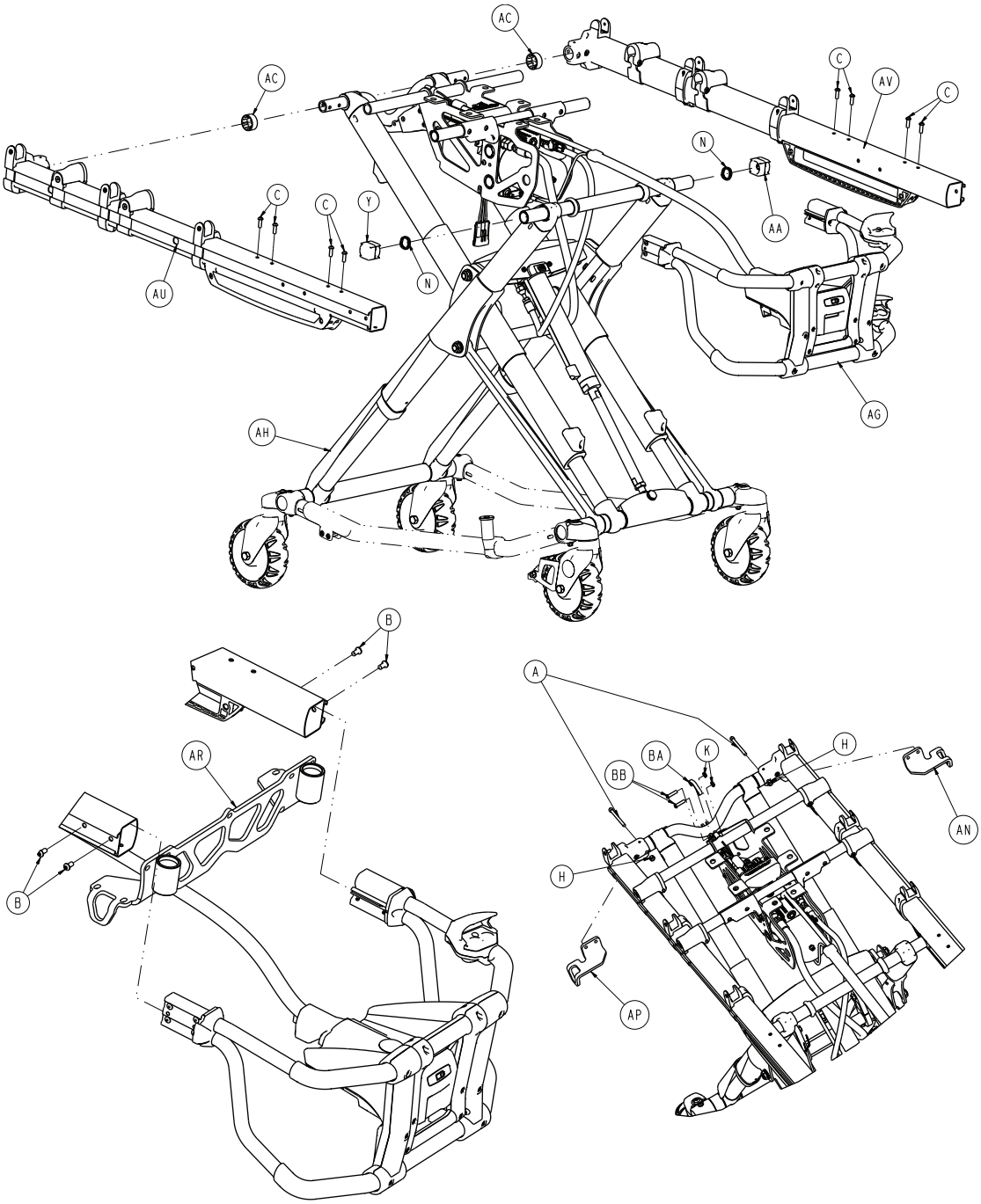
12 VDC automotive cable fuse replacement (Continued)

Figure 19: 12 VDC automotive cable

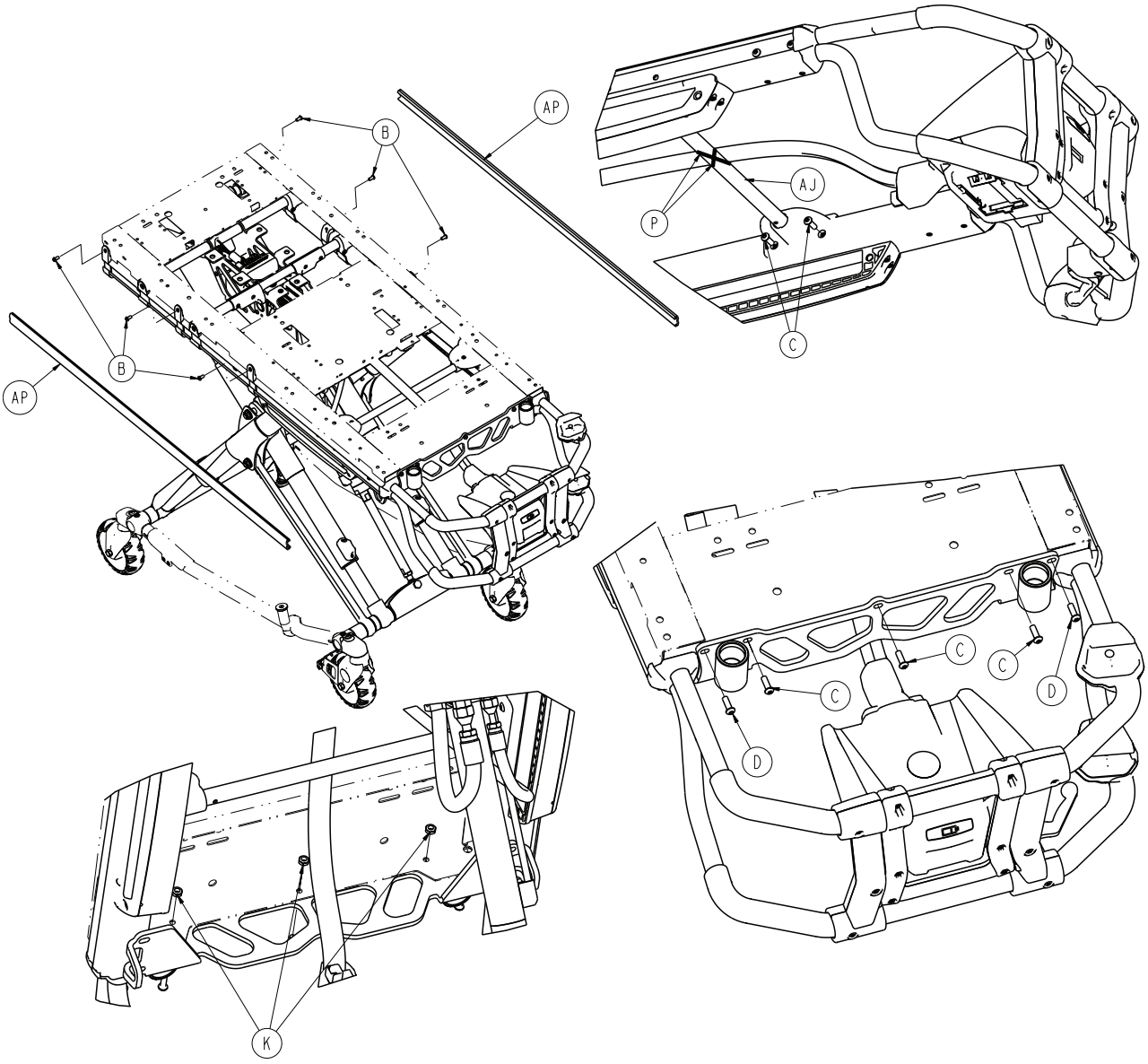
6516-001-010 Rev E (Reference only)



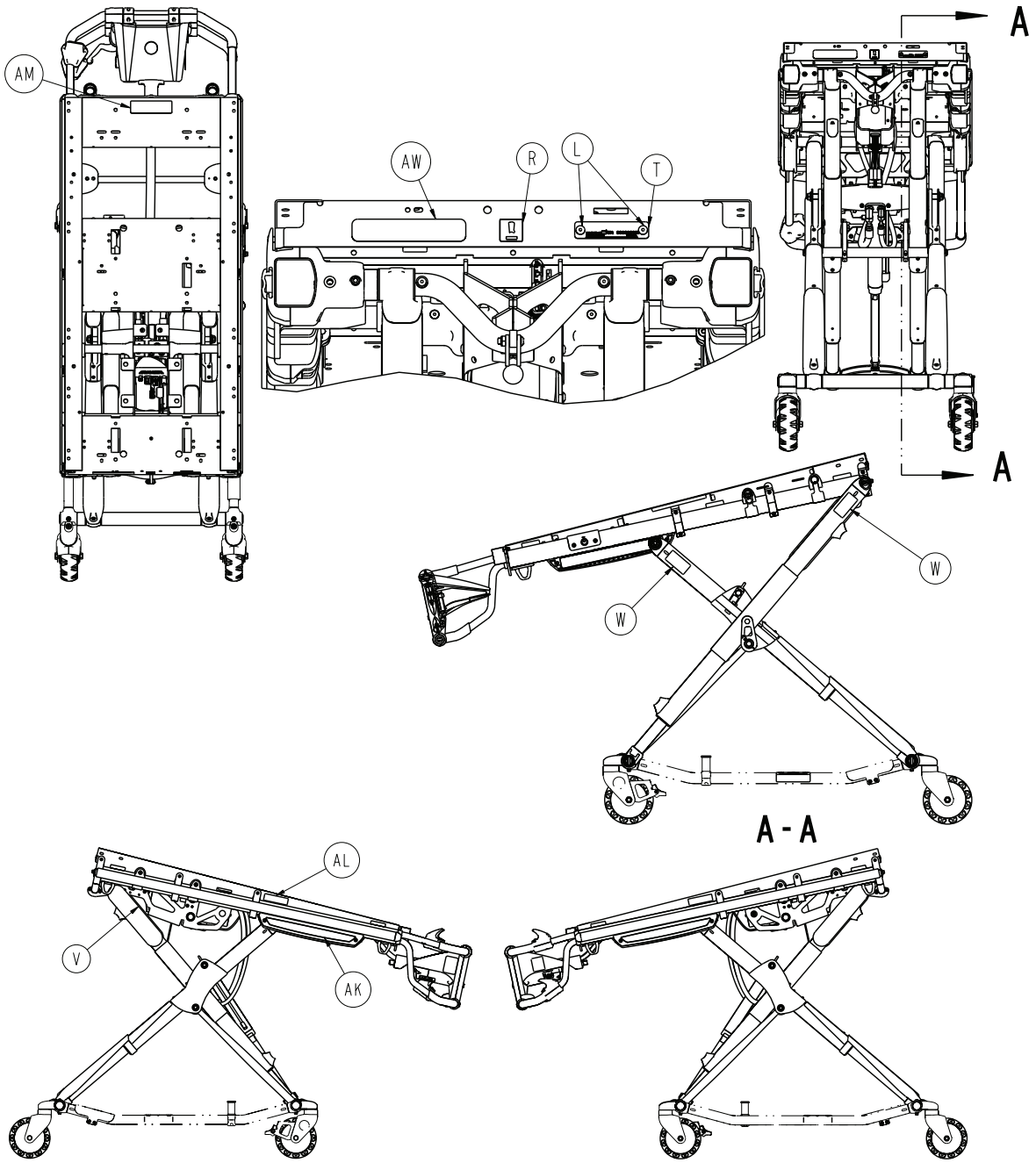
Cot assembly



Cot assembly



Cot assembly



Note: Secure cable to cross member with item P.

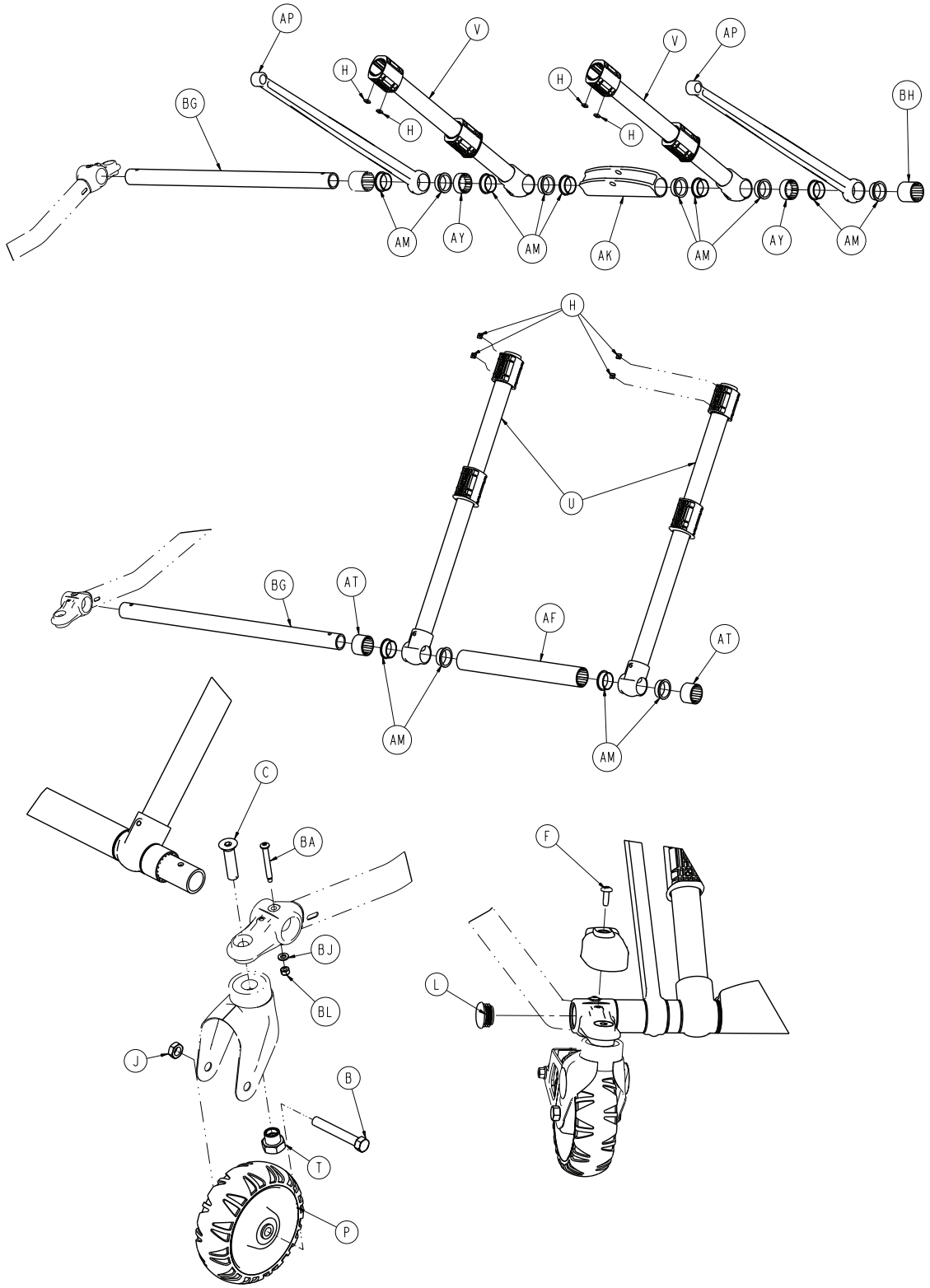
Item	Number	Name	Quantity
A	0004-517-000	Socket head cap screw	2
B	0004-589-000	Button head cap screw	12
C	0004-592-000	Button head cap screw	15
D	0004-593-000	Button head cap screw	2
E	0008-030-000	Socket head set screw	2
F	0011-013-000	Washer	1
G	0016-002-000	Fiberlock hex nut	2
H	0016-028-000	Fiberlock hex nut	4

Cot assembly

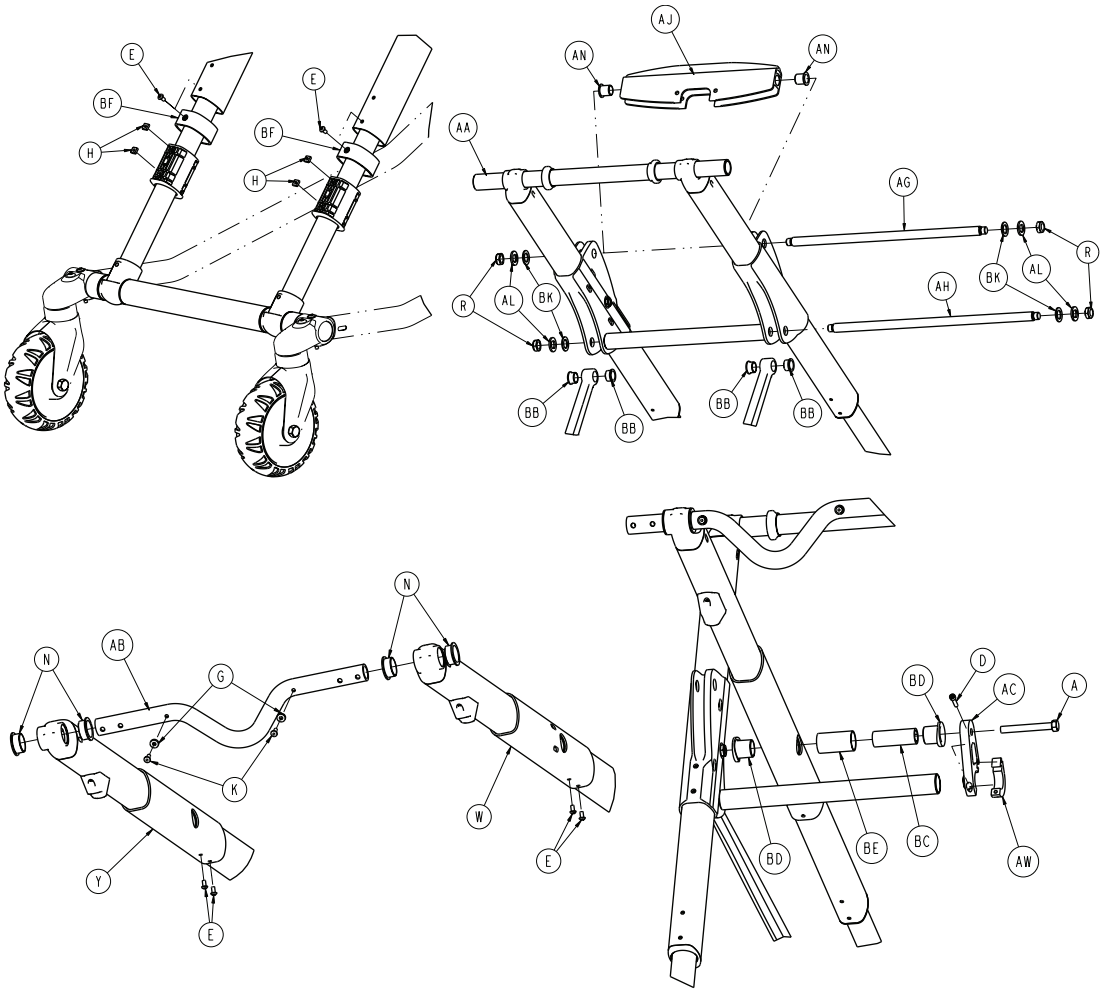
Item	Number	Name	Quantity
J	0016-035-000	Nylock hex nut	1
K	0016-102-000	Nylock hex nut	5
L	0025-079-000	Rivet, dome head	2
M	0025-133-000	Rivet, dome head	8
N	0038-574-000	Spring, crest-to-crest	2
P	0059-211-000	Nylon cable tie	2
R	2030-009-901	Label, WEEE	1
T	6060-090-002	Label, serial number	1
V	6082-090-043	Label, eleven inch	2
W	6252-101-139	Label, do not lubricate	4
Y	6500-001-017	Slider, magnet	1
AA	6500-001-123	Slider, hall effects	1
AB	6500-001-127	Bumper, outer rail	2
AC	6500-001-128	Spacer, plastic extrusion	2
AD	6500-001-168	Pin, rod attachment	1
AE	6500-001-195	Mounting casting, motor	2
AF	6500-001-196	Cross brace, litter	1
AG	6500-102-015	Foot end assembly	1
AH	6506-001-012	Base assembly	1
AJ	6510-001-013	Assembly, cross brace	1
AK	6510-101-116	Label, Power-Pro IT	2
AL	6510-101-117	Label, weight capacity	2
AM	6510-101-121	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	Weldment, socket, foot end	1
AT	6516-001-014	Power plant, assembly, mounted	1
AU	6516-001-027	Outer rail, subassembly, right	1
AV	6516-001-028	Outer rail, subassembly, left	1
AW	6516-101-100	Label, Power-Pro IT specification	1
BA	6500-002-195	Collar	1
BB	0004-594-000	Button head cap screw	2

Base assembly

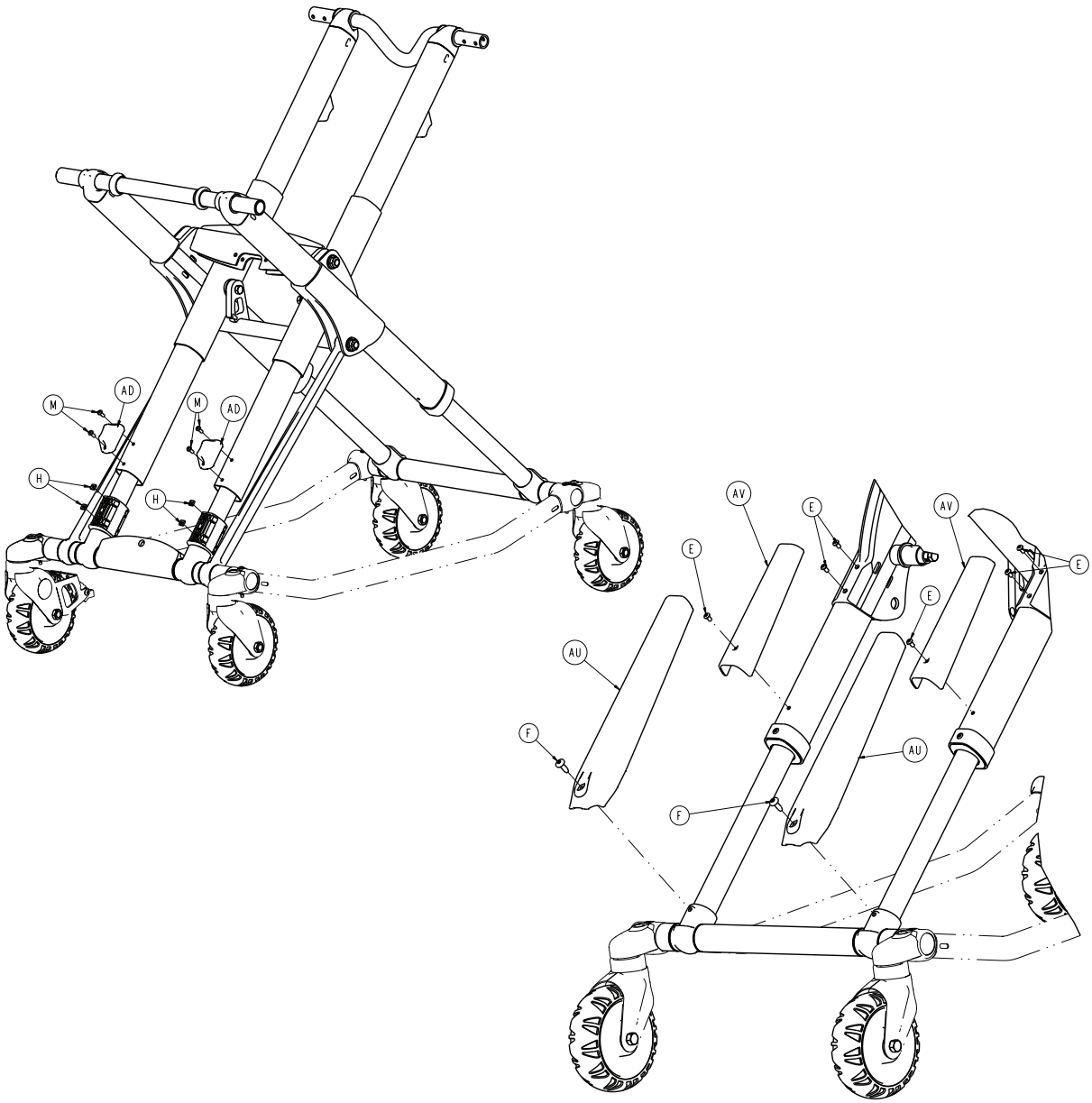
6506-001-012 Rev B (Reference only)



Base assembly



Base assembly



Base assembly

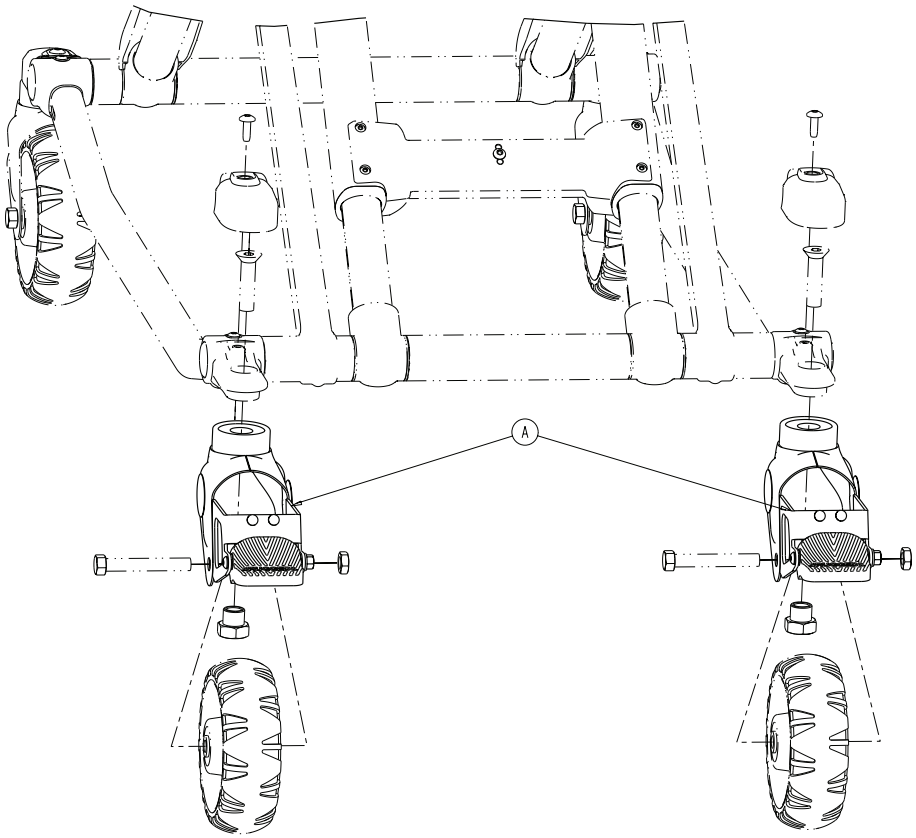
Item	Number	Name	Quantity
A	0003-388-000	Hex head cap screw	2
B	0003-205-000	Hex head cap screw	4
C	0004-319-000	Flat head socket screw	4
D	0004-659-000	Socket head cap screw	2
E	0004-587-000	Button head cap screw	12
F	0007-086-000	Truss head screw	6
G	0014-115-000	Washer	2
H	0015-051-000	Square nut	16
J	0016-060-000	Toplock hex jam nut	4
K	0025-133-000	Dome head rivet	2
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	6 inch molded wheel assembly (Wheel assembly - 6060-002-010 on page 60)	4
R	0016-049-000	Nylock hex nut	4
T	6090-001-009	Caster nut	4
U	6500-301-021	Outer lift tube assembly (Outer lift tube assembly, base pivot - 6500-301-021 on page 64)	2
V	6500-301-022	Inner lift tube assembly (Inner lift tube assembly, base pivot - 6500-301-022 on page 65)	2
W	6500-001-034	Inner lift tube assembly, litter pivot, right (Inner lift tube, litter pivot, patient right assembly - 6500-001-034 on page 66)	1
Y	6500-001-035	Inner lift tube assembly, litter pivot, left (Inner lift tube, litter pivot, patient left assembly - 6500-001-035 on page 67)	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	6500-001-225	“D” washer	4
AM	6500-001-166	Flange bearing	14
AN	6500-001-157	Flange bearing	2
AP	6500-001-172	Support link	2
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

Base assembly

Item	Number	Name	Quantity
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

Dual wheel lock option

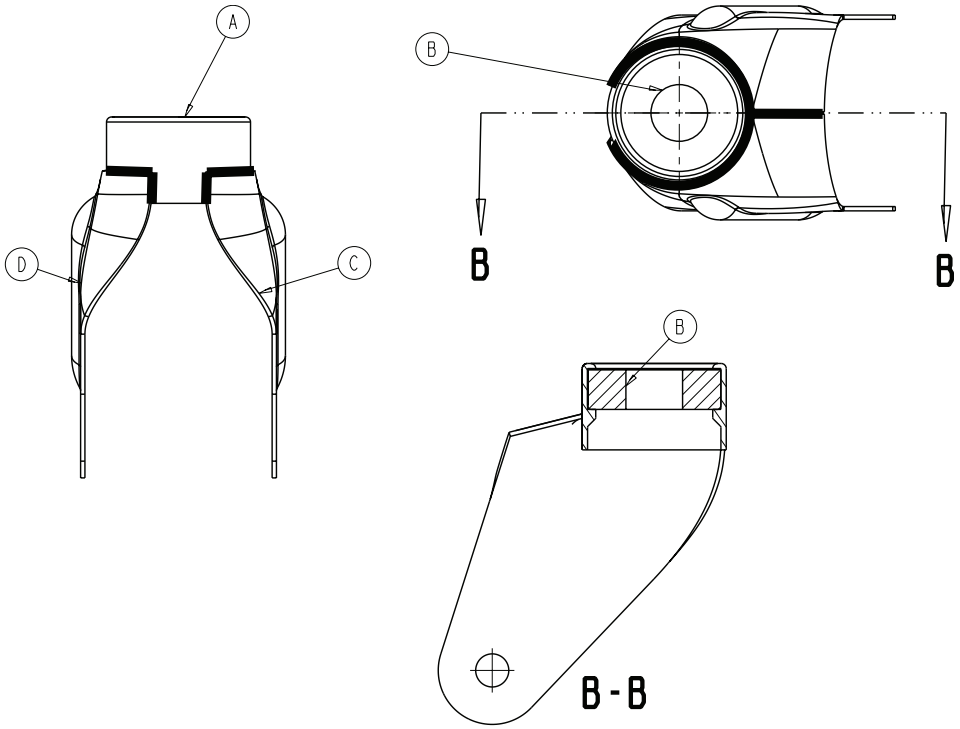
6086-602-010 Rev A (Reference only)



Item	Number	Name	Quantity
A	6086-200-010	(Adjustable caster lock assembly on page 59)	2

Caster horn assembly

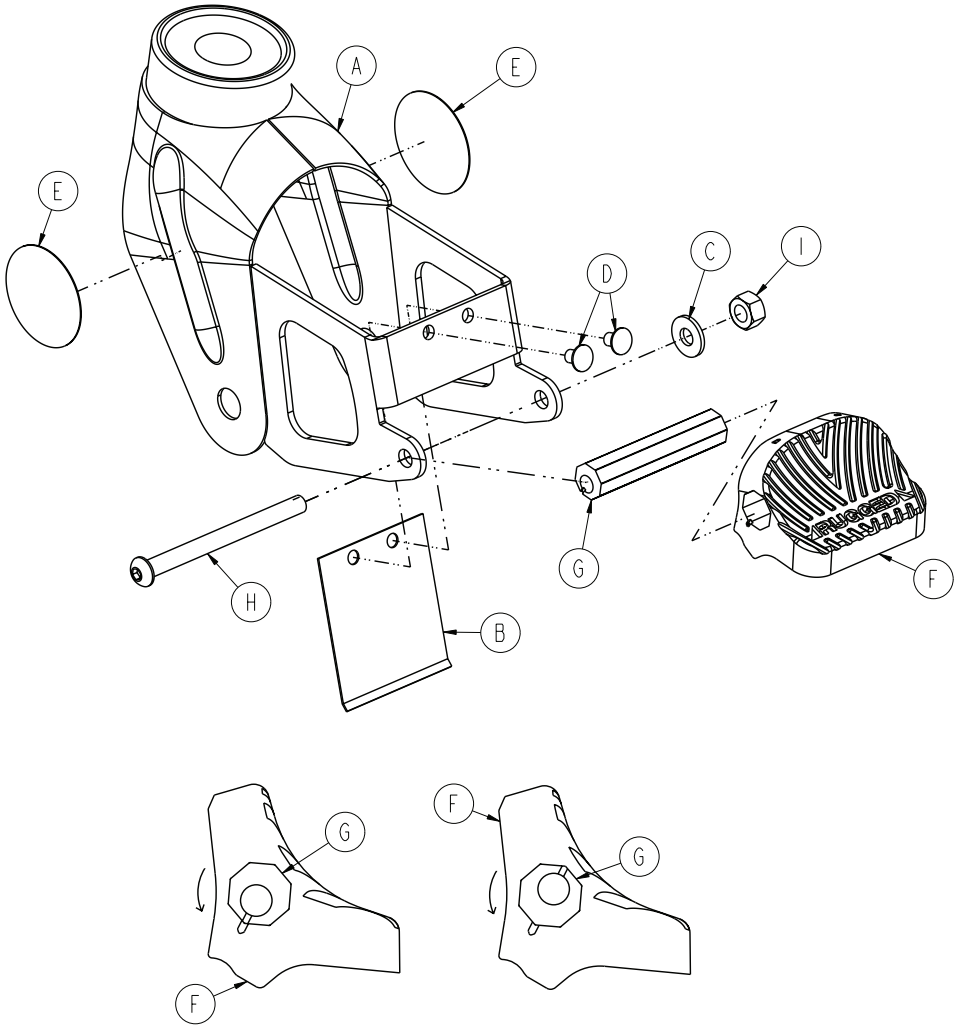
6082-002-012 Rev C (Reference only)



Item	Number	Name	Quantity
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

Adjustable caster lock assembly

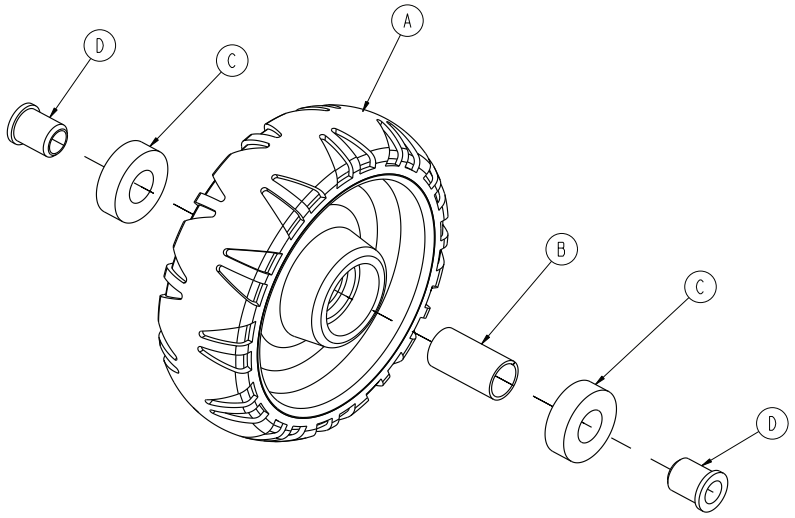
6086-200-010 Rev A (Reference only)



Item	Number	Name	Quantity
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	6506-001-900	Label	2
F	6080-300-030	Pedal, adjustable caster lock	1
G	6080-200-041	Octagonal sleeve, adjustable caster lock	1
H	0004-098-000	Hex socket button head cap screw	1
I	0016-118-000	Centerlock nut	1

Wheel assembly - 6060-002-010

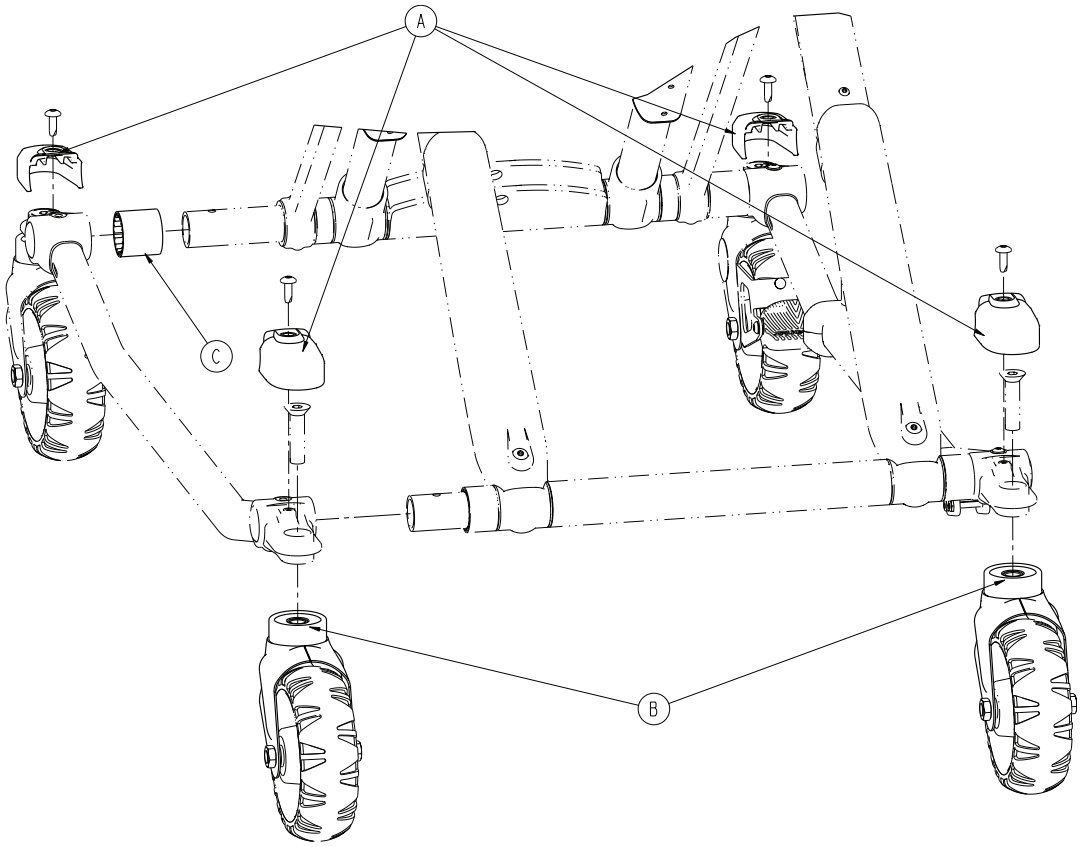
Rev D (Reference only)



Item	Number	Name	Quantity
A	6060-002-045	6 in. molded wheel	1
B	6060-002-046	Bearing spacer	1
C	0081-226-000	Bearing	2
D	0715-001-255	Wheel bushing	2

No Steer-lock option

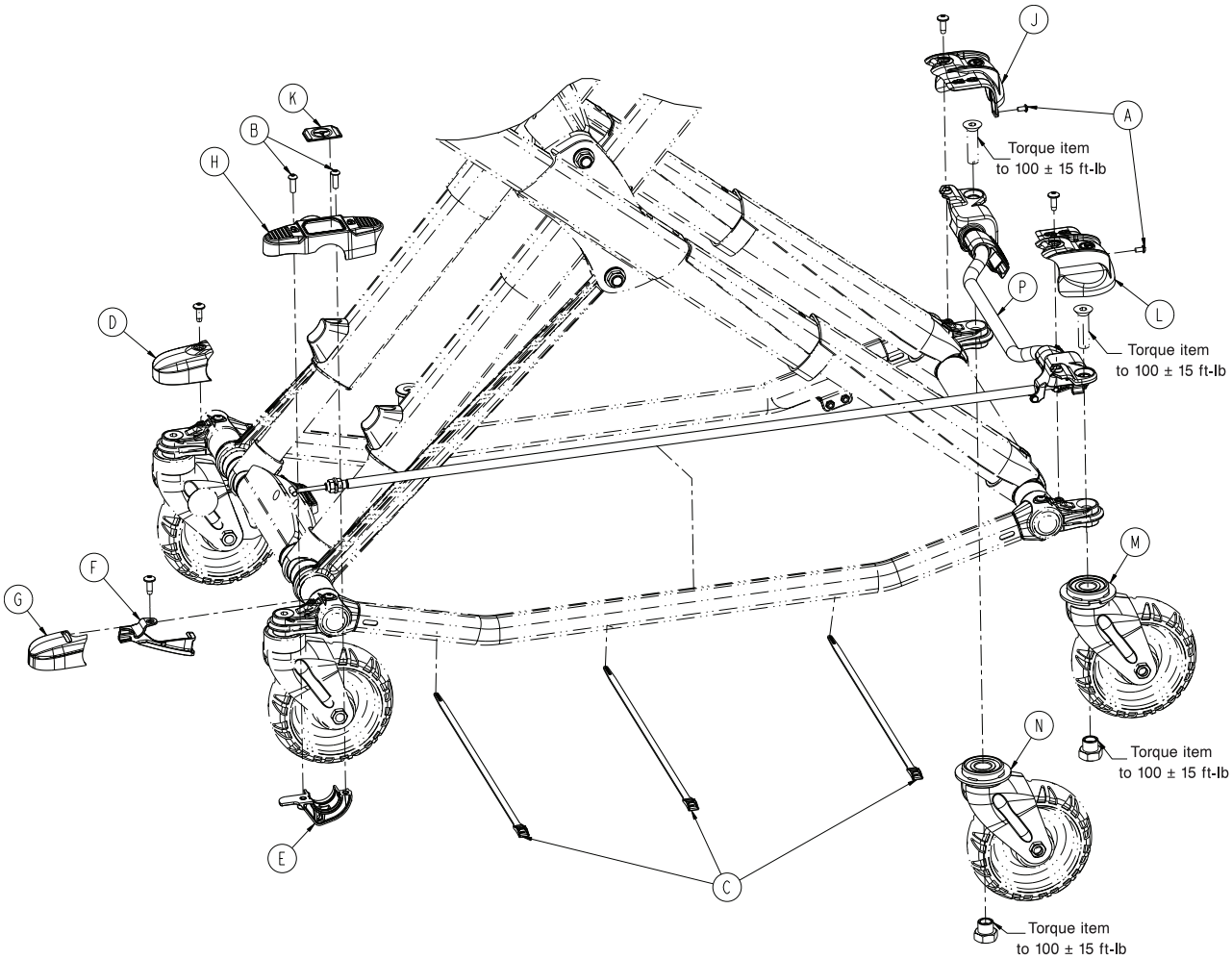
6506-037-000 Rev A (Reference only)



Item	Number	Name	Quantity
A	6500-001-177	Caster mount cover	4
B	6082-002-012	Caster horn assembly on page 58	2
C	6500-001-230	Plastic extrusion - spacer	1

Steer-lock, optional - 6506-038-000

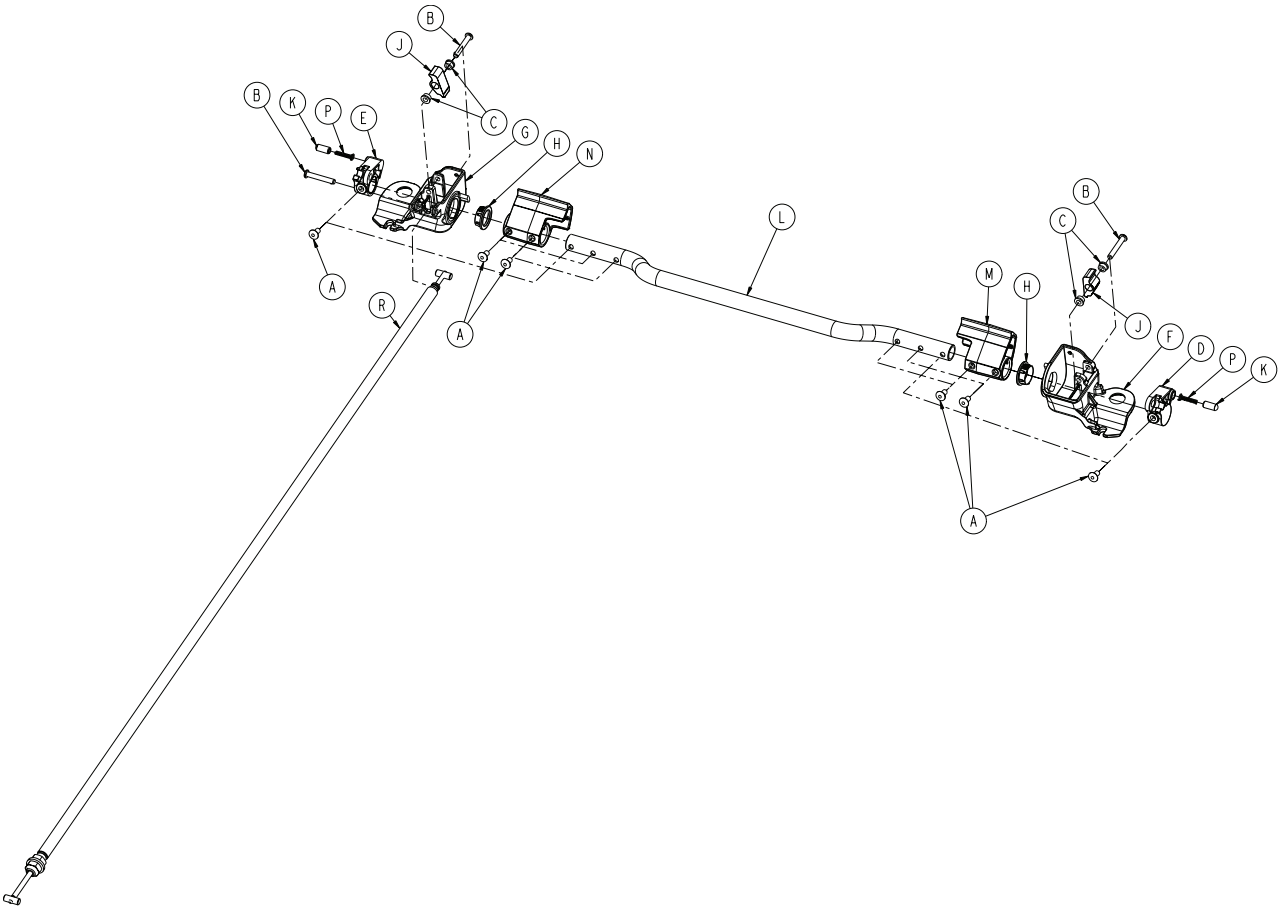
Rev A (Reference only)



Item	Number	Name	Quantity
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 sub assembly, head end on page 63	1

Steer-lock sub assembly, head end

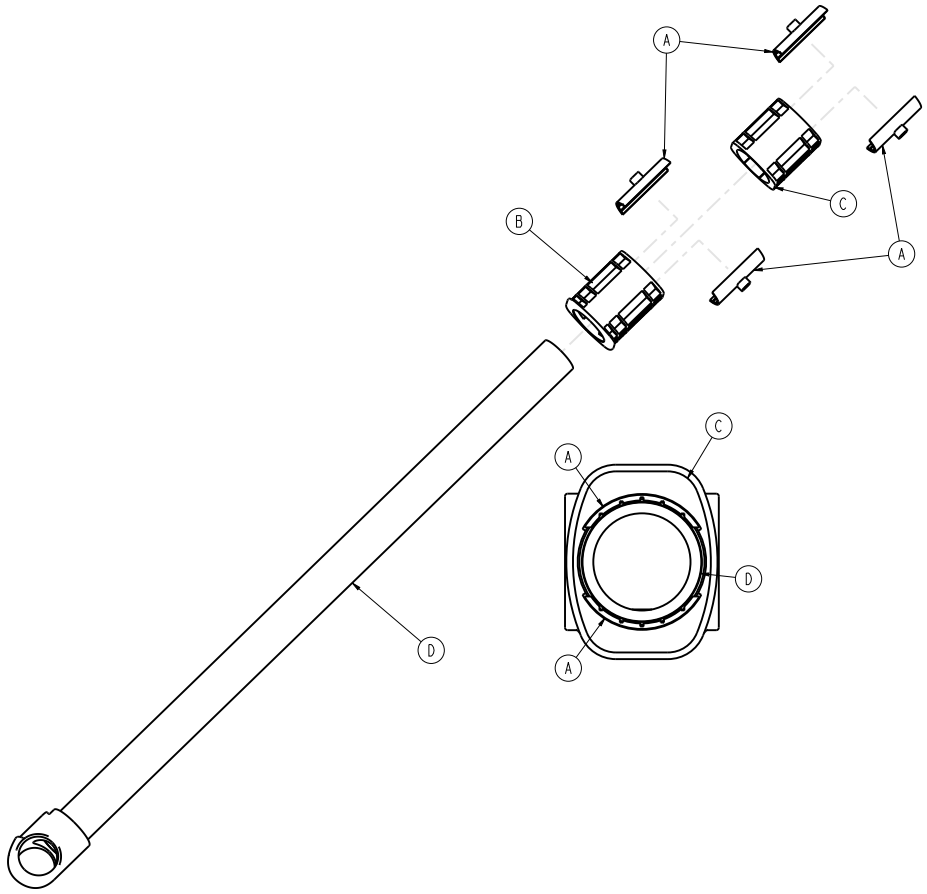
6506-002-265 Rev A (Reference only)



Item	Number	Name	Quantity
A	0025-079-000	Dome head rivet	6
B	0027-036-000	Self locking implanted cotter (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

Outer lift tube assembly, base pivot - 6500-301-021

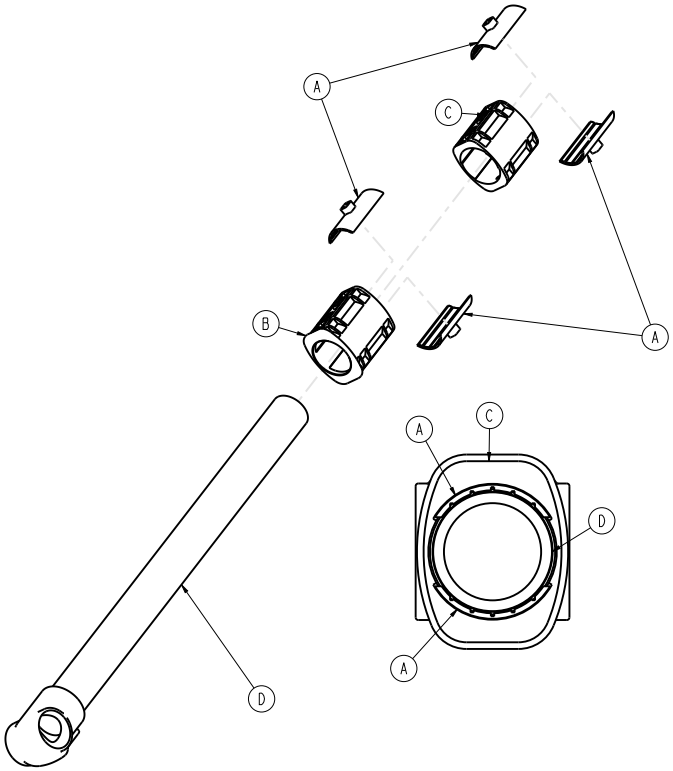
Rev B (Reference only)



Item	Number	Name	Quantity
A	6500-101-327	Half shell bearing	4
B	6500-001-328	Bearing carrier, lower	1
C	6500-001-329	Bearing carrier, middle	1
D	6500-301-050	Outer lift tube weldment	1

Inner lift tube assembly, base pivot - 6500-301-022

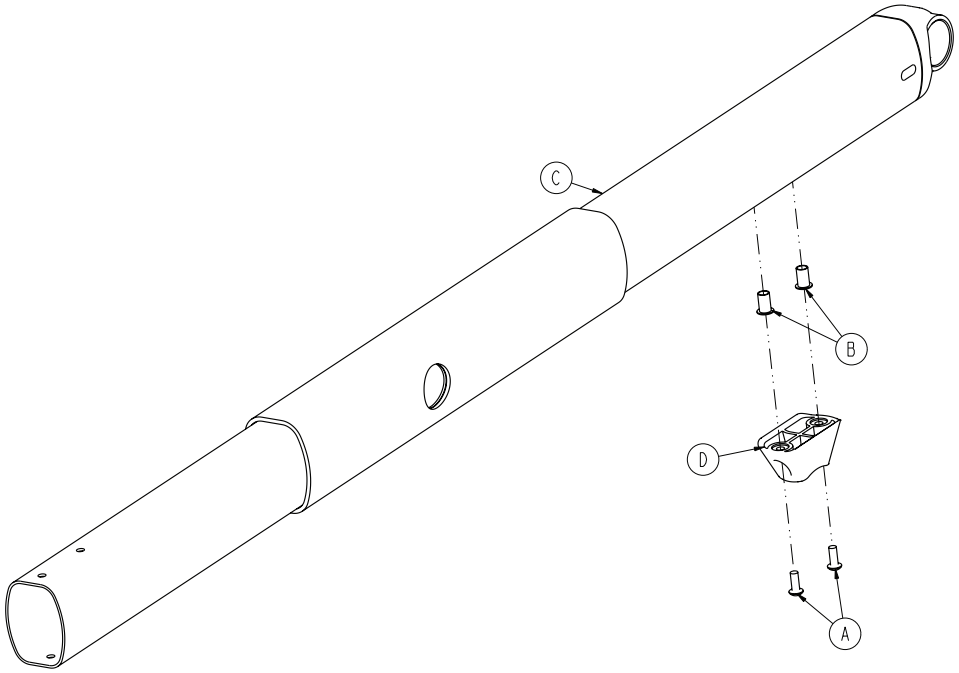
Rev C (Reference only)



Item	Number	Name	Quantity
A	6500-101-327	Half shell bearing	4
B	6500-001-328	Bearing carrier, lower	1
C	6500-001-329	Bearing carrier, middle	1
D	6500-301-051	Lift tube weldment, base pivot	1

Inner lift tube, litter pivot, patient right assembly - 6500-001-034

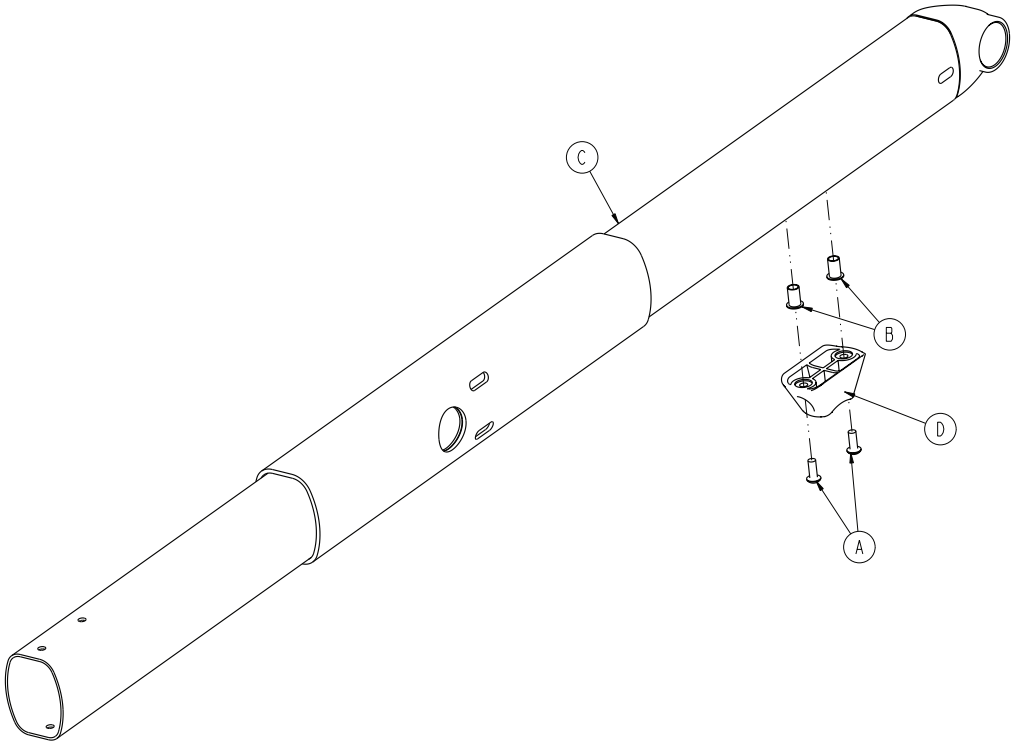
Rev F (Reference only)



Item	Number	Name	Quantity
A	0004-634-000	Button head cap screw	2
B	0055-100-075	Nut	2
C	6500-001-355	Inner lift tube weldment	1
D	6500-001-125	Dead stop	1

Inner lift tube, litter pivot, patient left assembly - 6500-001-035

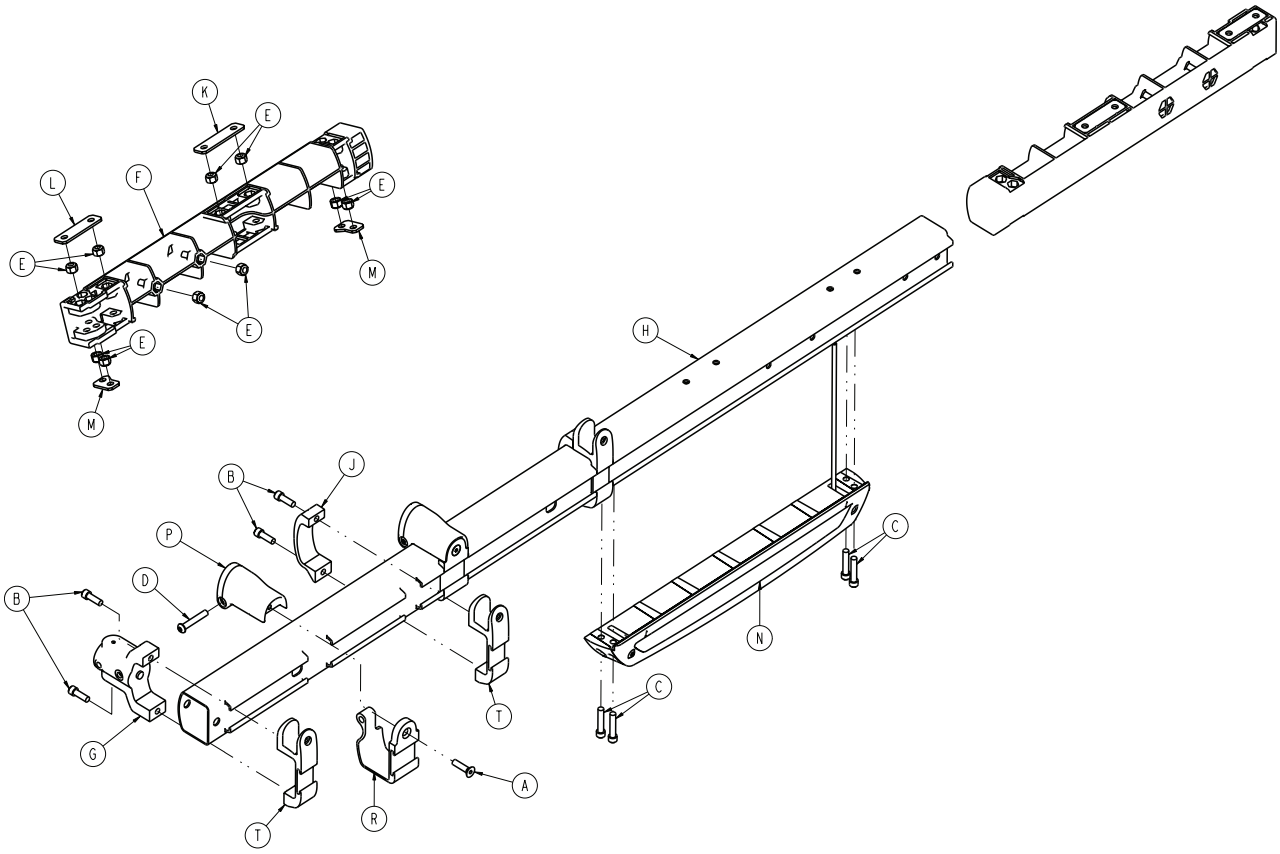
Rev F (Reference only)



Item	Number	Name	Quantity
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

Outer rail sub assembly, right

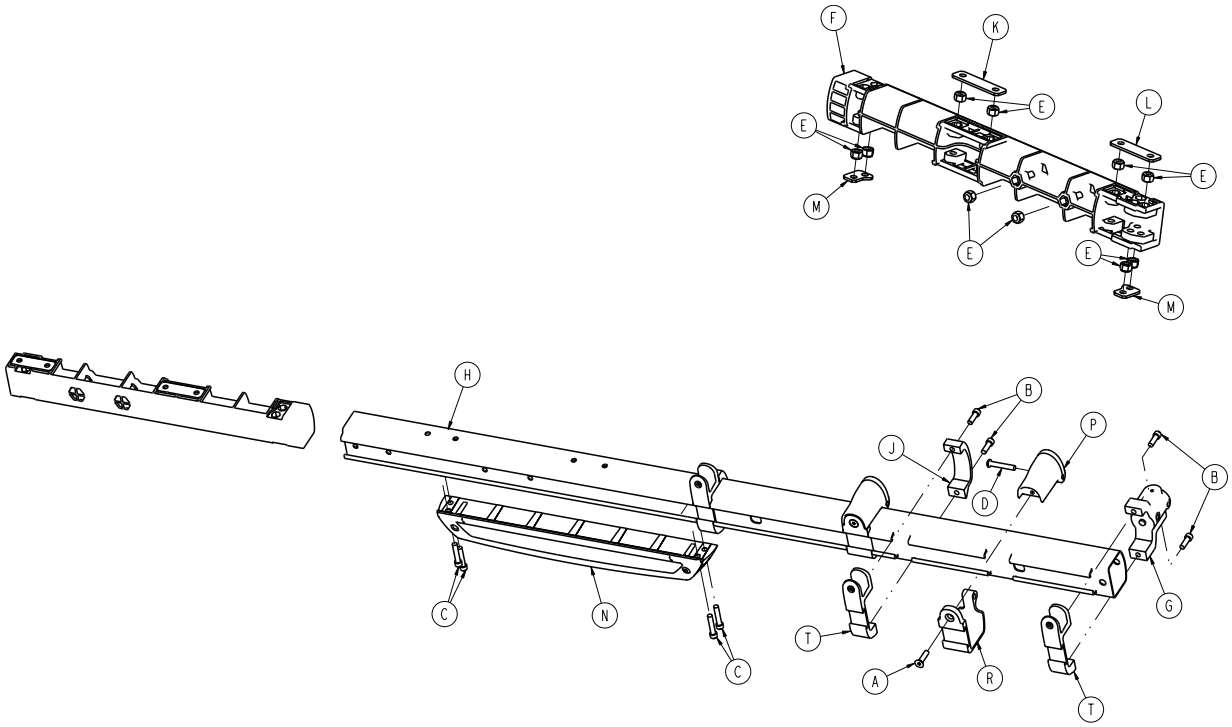
6516-001-027 Rev B (Reference only)



Item	Number	Name	Quantity
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	Litter dead stop, 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	IV pole backer plate	1
L	6500-001-244	IV clip backer plate	1
M	6500-001-245	Sensor housing bracket plate	2
N	6500-002-028	Hall sensor assembly on page 70	1
P	6500-002-130	Litter support bracket	2
R	6500-002-131	Litter support bracket, inner	2
T	6510-001-115	Siderail bracket	3

Outer rail sub assembly, left

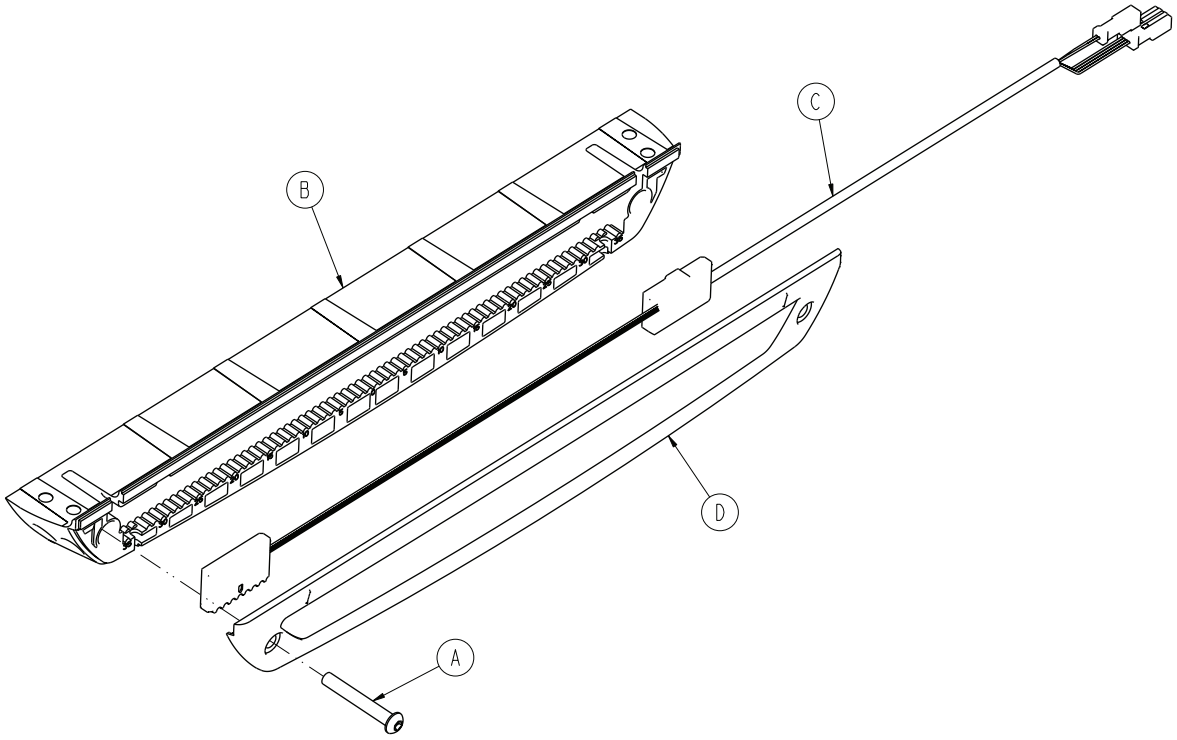
6516-001-028 Rev B (Reference only)



Item	Number	Name	Quantity
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	Litter dead stop, 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	IV pole backer plate	1
L	6500-001-244	IV clip backer plate	1
M	6500-001-245	Sensor housing bracket plate	2
N	6500-002-029	Sensor housing assembly on page 71	1
P	6500-002-130	Litter support bracket	2
R	6500-002-131	Litter support bracket, inner	2
T	6510-001-115	Siderail bracket	3

Hall sensor assembly

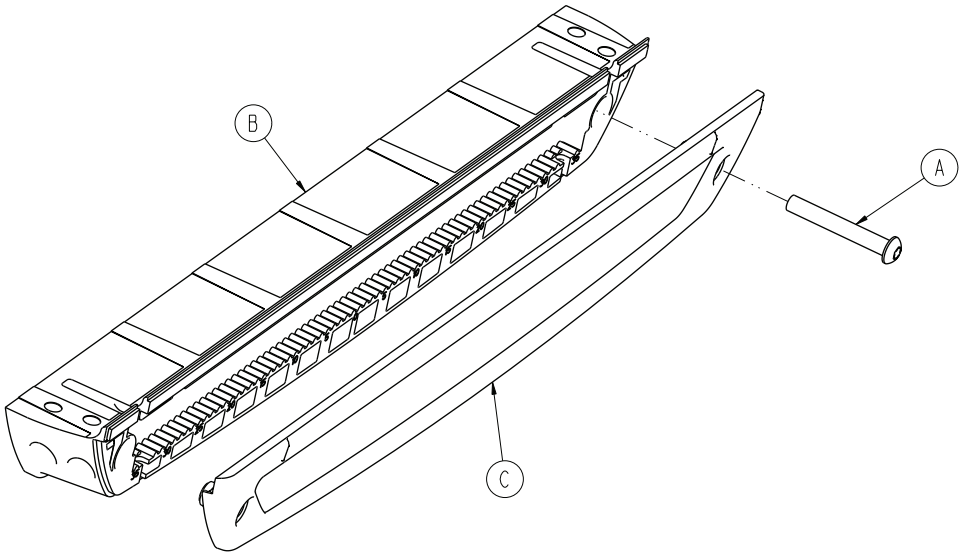
6500-002-028 Rev A (Reference only)



Item	Number	Name	Quantity
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	Housing cover	1

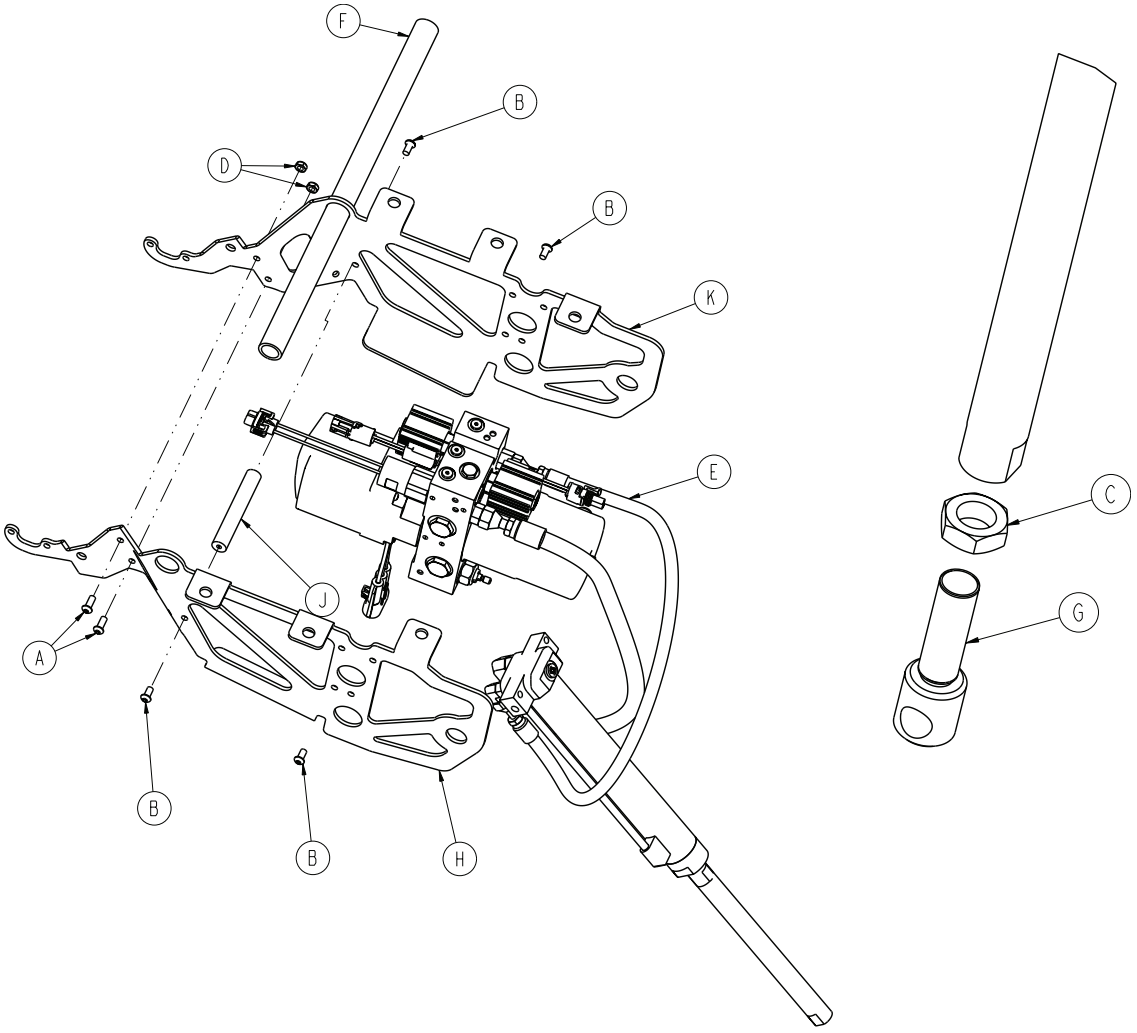
Sensor housing assembly

6500-002-029 Rev A (Reference only)



Item	Number	Name	Quantity
A	0004-596-000	Button head cap screw	1
B	6500-001-124	Sensor housing	1
C	6500-001-199	Housing cover	1

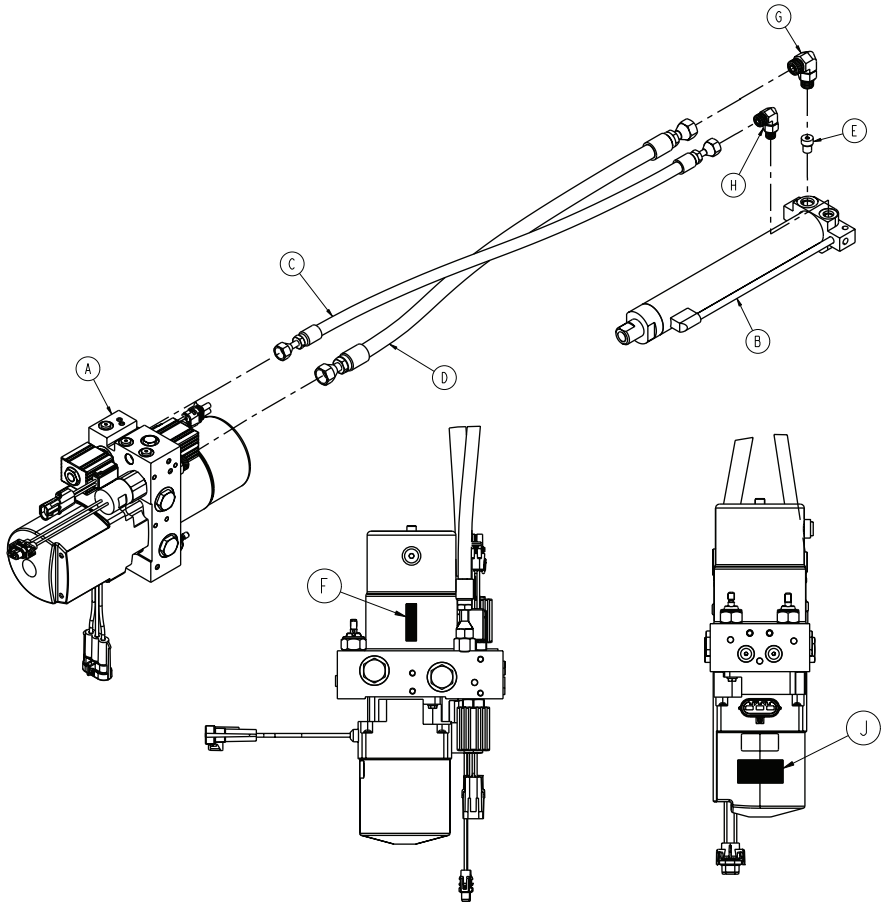
6516-001-014 Rev C (Reference only)



Item	Number	Name	Quantity
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	6500-101-030	XT/IT hydraulic subassembly	1
F	6500-001-105	Litter support, cross tube	1
G	6500-001-169	Cylinder, rod end	1
H	6500-002-194	Motor mount	1
J	6500-001-212	Motor mount cross bar	1
K	6500-002-294	Motor mount	1

Hydraulic sub assembly - 6500-001-030

Rev AC (Reference only)



Item	Number	Name	Quantity
A	6500-001-214	Manifold assembly	1
B	6500-002-034	Hydraulic cylinder assembly	1
C	6500-001-211	Hydraulic hose assembly	1
D	6500-001-210	Hydraulic hose	1
G	6500-001-296	Cylinder cap side hose fitting	1
H	6500-001-297	Cylinder rod side hose fitting	1

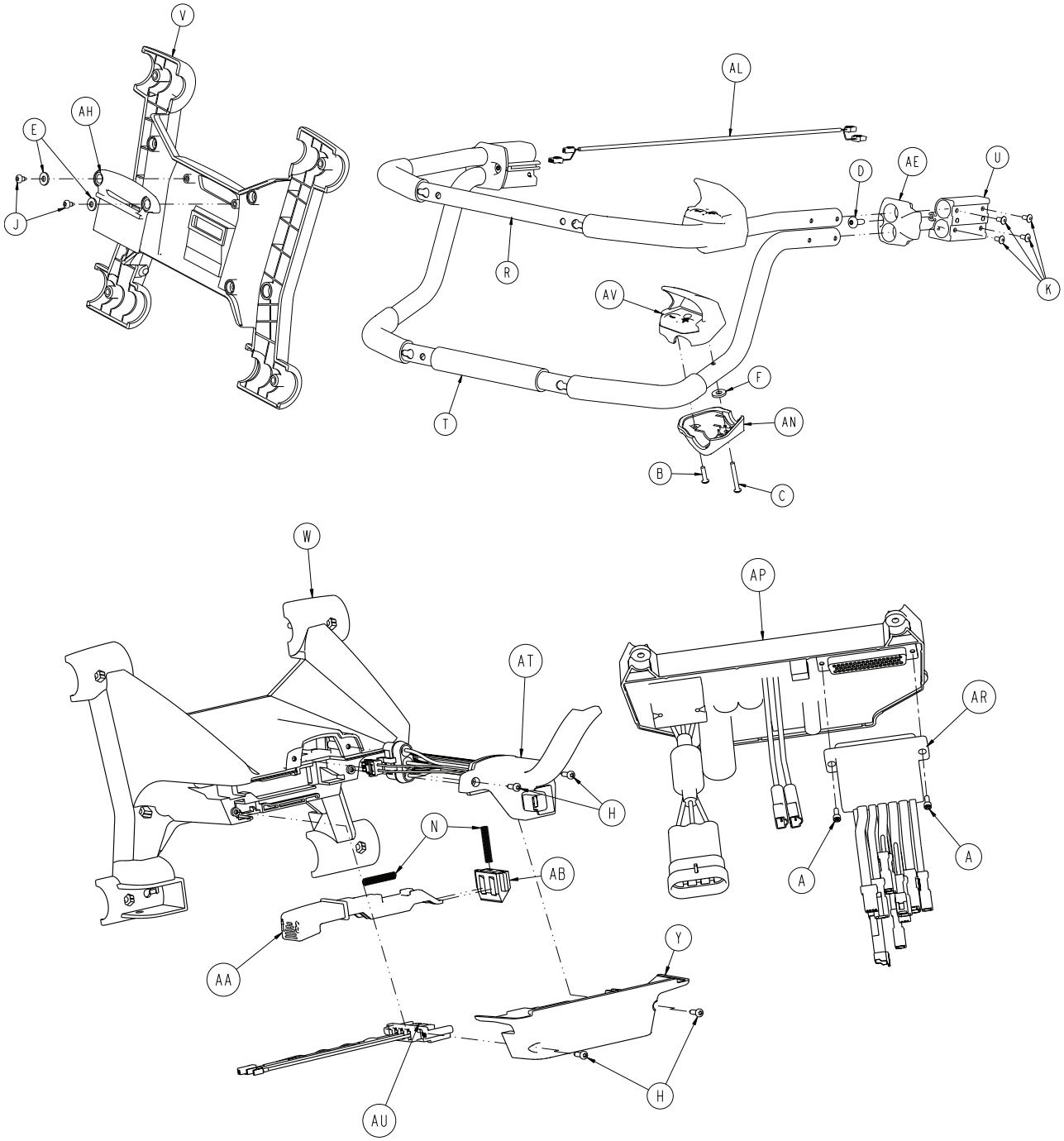
Number	Name
6500-001-210	Hydraulic hose
6500-001-211	Hydraulic hose assembly
6500-001-213	Cylinder
6500-001-214	Manifold assembly
6500-001-270	Pressure compensated flow control
6500-001-282	Manifold cap side hose fitting
6500-001-283	Manifold rod side hose fitting
6500-001-284	A value solenoid
6500-001-285	B value solenoid
6500-001-286	A valve
6500-001-287	B valve

Hydraulic sub assembly - 6500-001-030

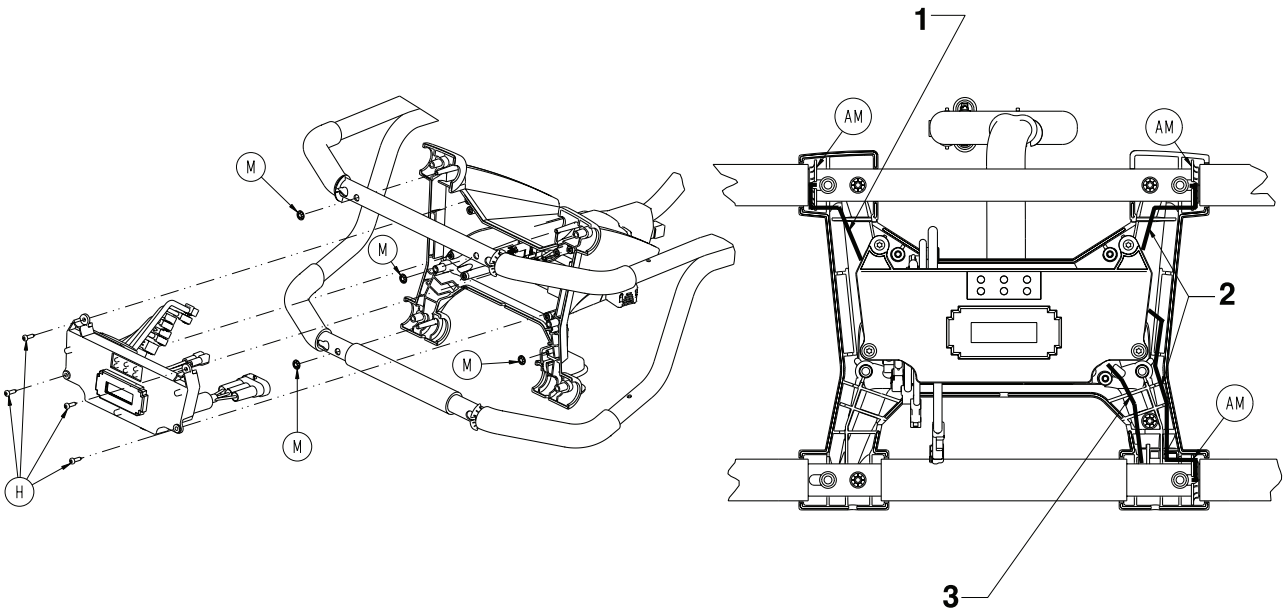
Number	Name
6500-001-288	Locking manual valve
6500-001-289	Non-locking manual valve
6500-001-290	Pressure switch
6500-001-291	Reservoir
6500-001-293	Hydraulic fluid
6500-001-295	Motor
6500-001-296	Cylinder cap side hose fitting
6500-001-297	Cylinder rod side hose fitting
6500-001-299	Hydraulic fill plug

Foot end assembly

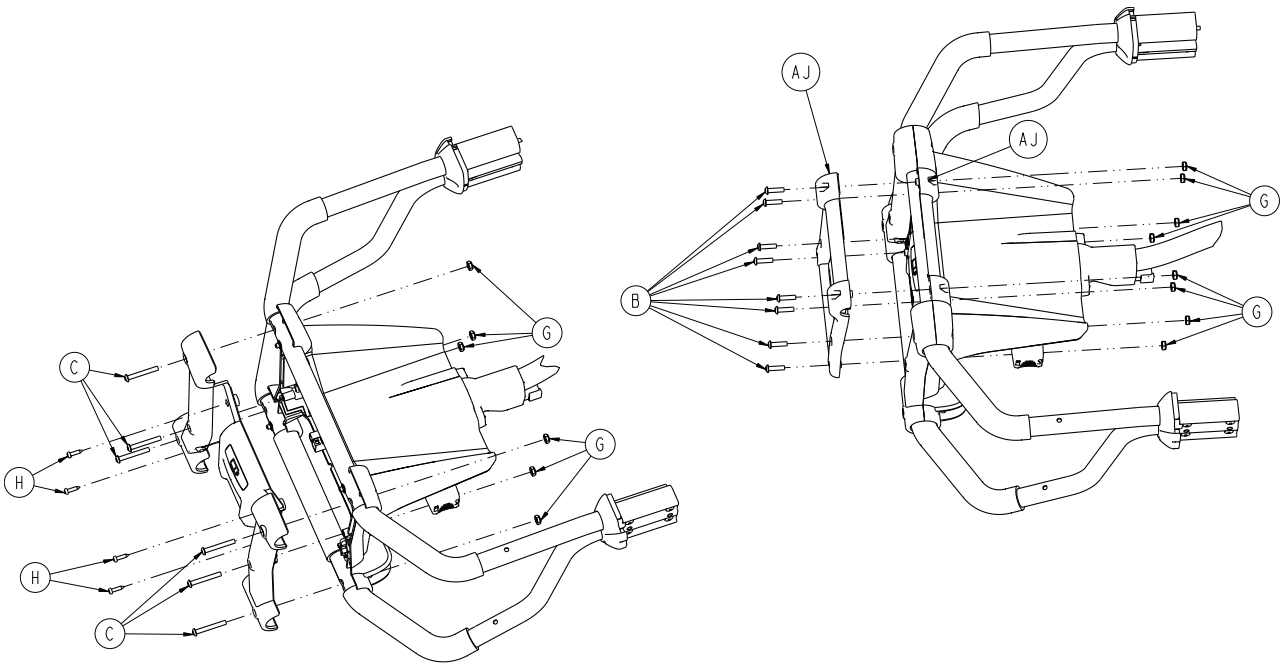
6500-102-015 Rev B (Reference only)



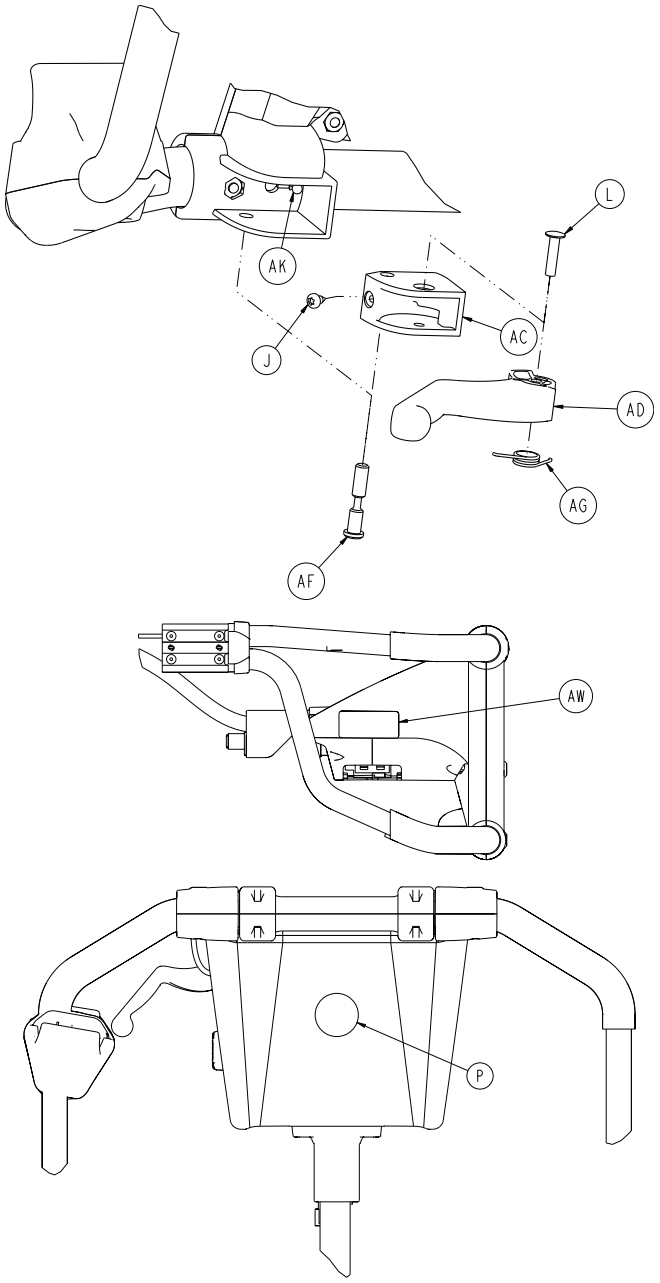
Foot end assembly



1	Route hall sensor cable around item (AM) and through this area
2	Route switch cables around item (AM) and through this area
3	Route manual release cable through this area



Foot end assembly



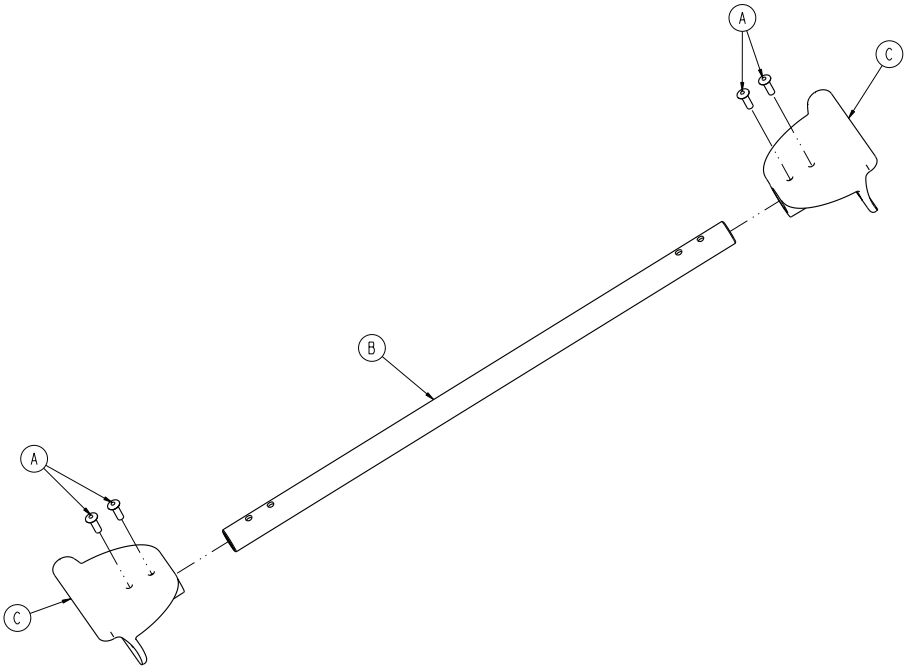
Item	Number	Name	Quantity
A	0004-874-000	Socket head cap screw	2
B	0004-614-000	Button head cap screw	10
C	0004-615-000	Button head cap screw	8
D	0007-086-000	Truss head screw	2
E	0011-062-000	Washer	2
F	0011-543-000	Washer	2
G	0016-131-000	Nylock hex nut	14
H	0023-162-000	Screw	12
J	0023-163-000	Screw	3

Foot end assembly

Item	Number	Name	Quantity
K	0025-079-000	Dome head rivet	8
L	0025-187-000	Semi-tubular rivet	1
M	0028-116-000	Pushnut	4
N	0038-572-000	Compression spring	2
P	6506-001-900	Label	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 - 6500-101-016 on page 80	2
AW	6500-001-356	Label, SMRT power	1

Cross brace assembly

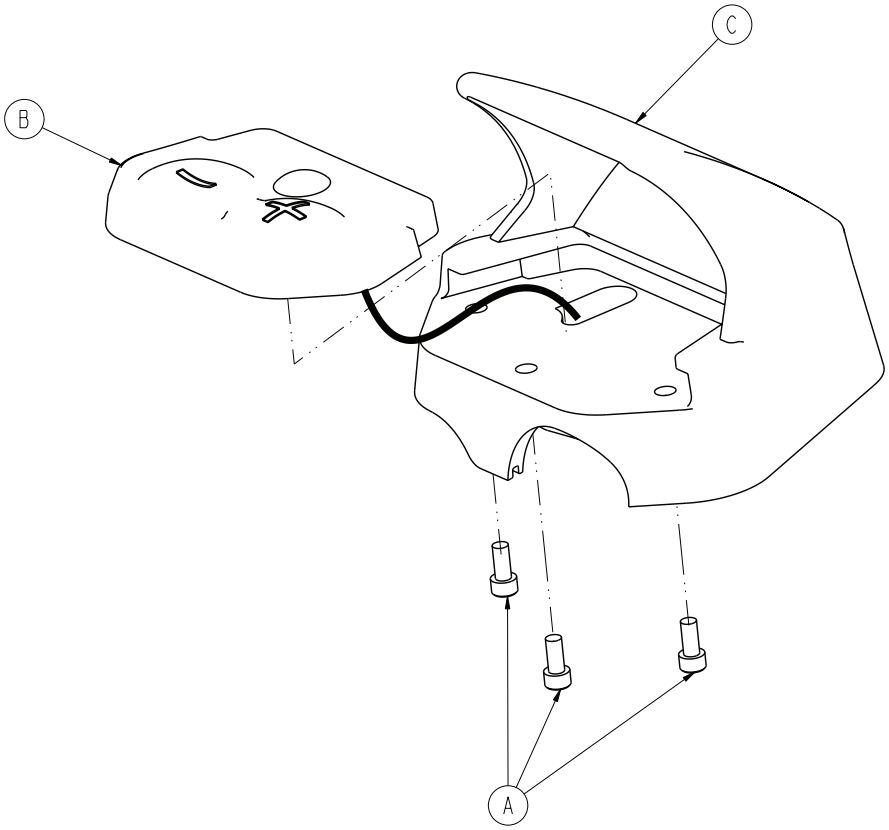
6510-001-013 Rev A (Reference only)



Item	Number	Name	Quantity
A	0025-133-000	Rivet	4
B	6500-001-107	Litter cross brace	1
C	6500-001-109	Trend support bracket	2

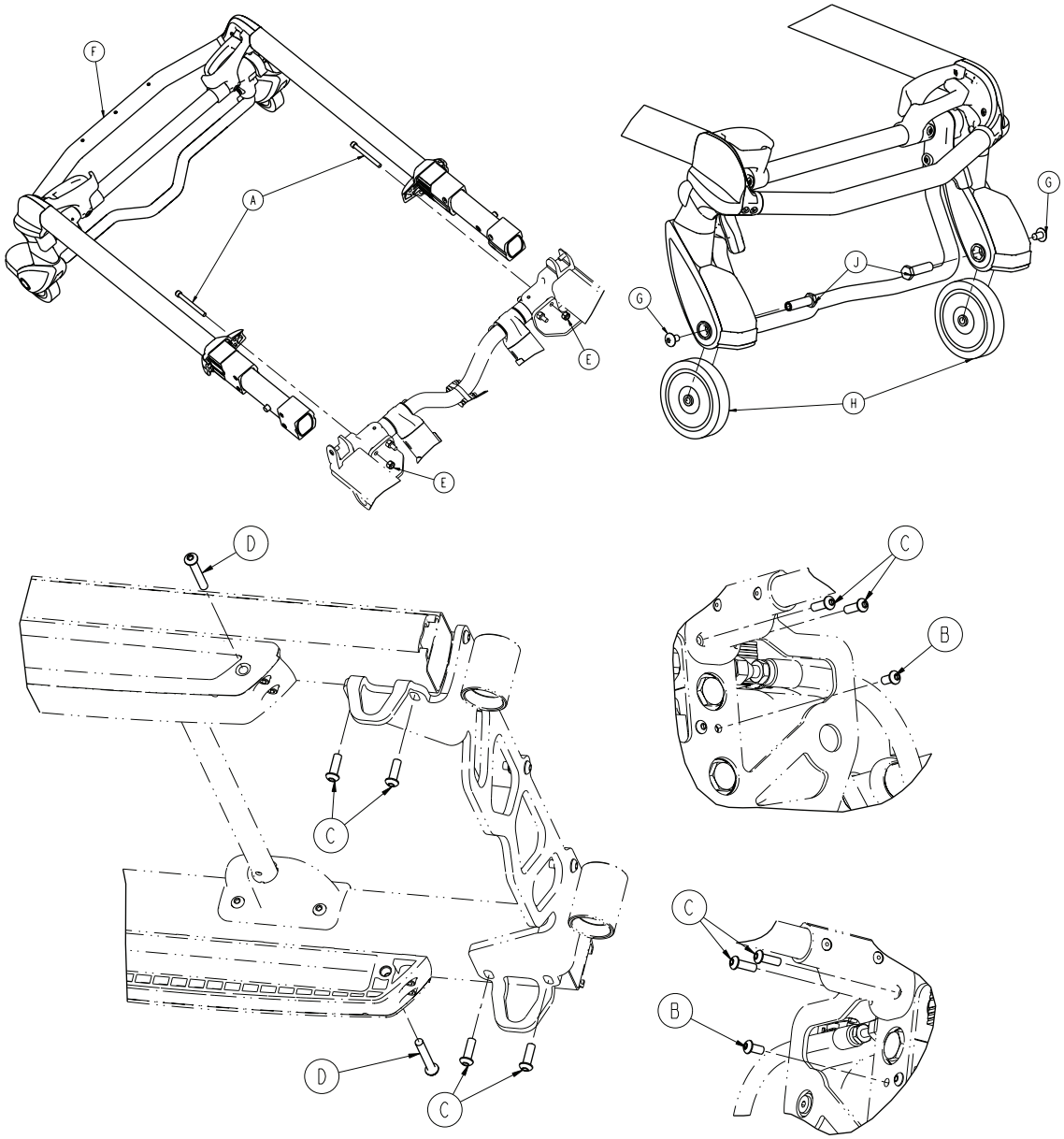
Button assembly - 6500-101-016

Rev E (Reference only)



Item	Number	Name	Quantity
A	37J102-1	Socket head cap screw	3
B	6500-101-130	Switch	1
C	6500-001-359	Button upper housing, foot end	1

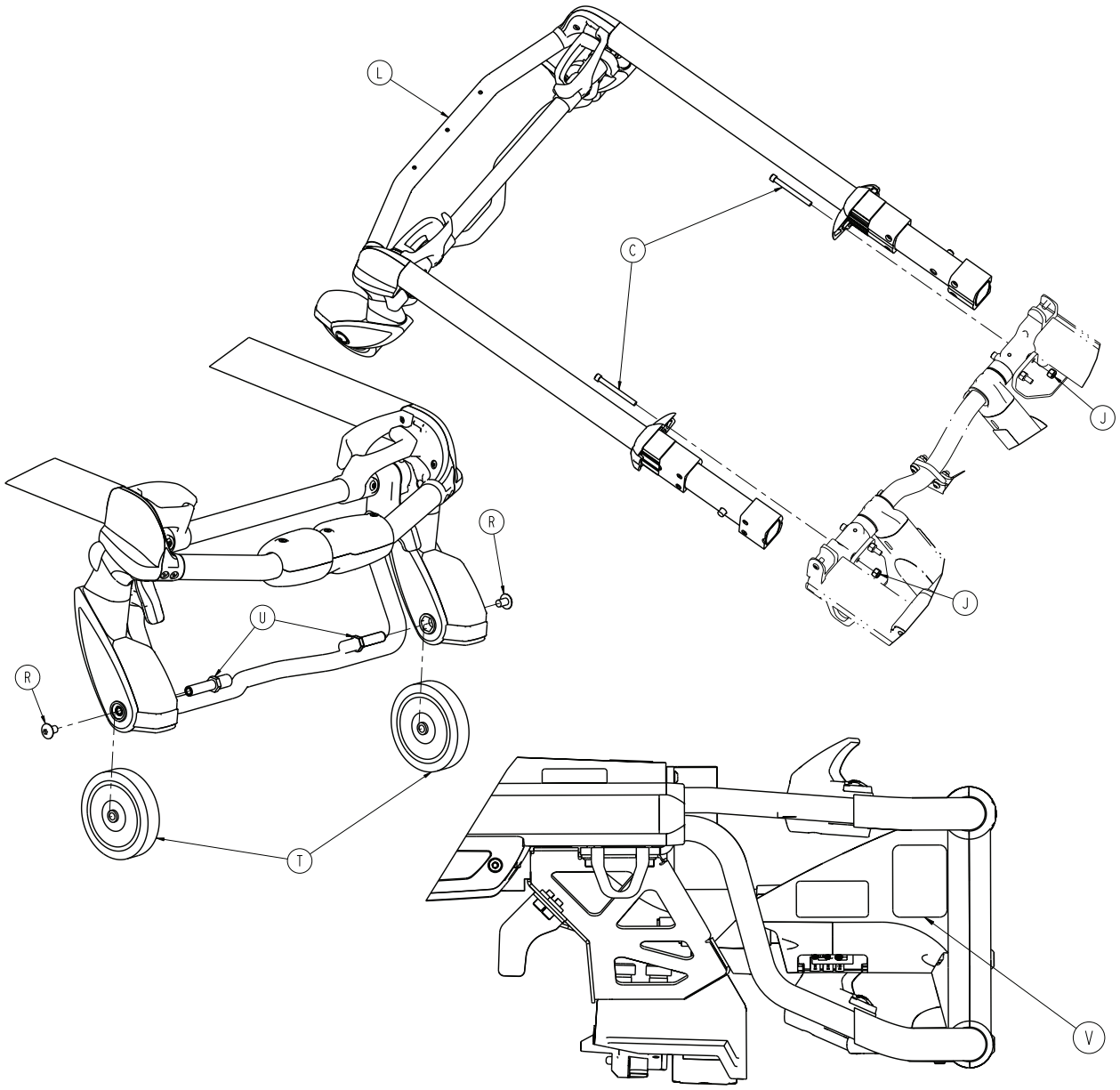
6516-043-000 Rev B (Reference only)



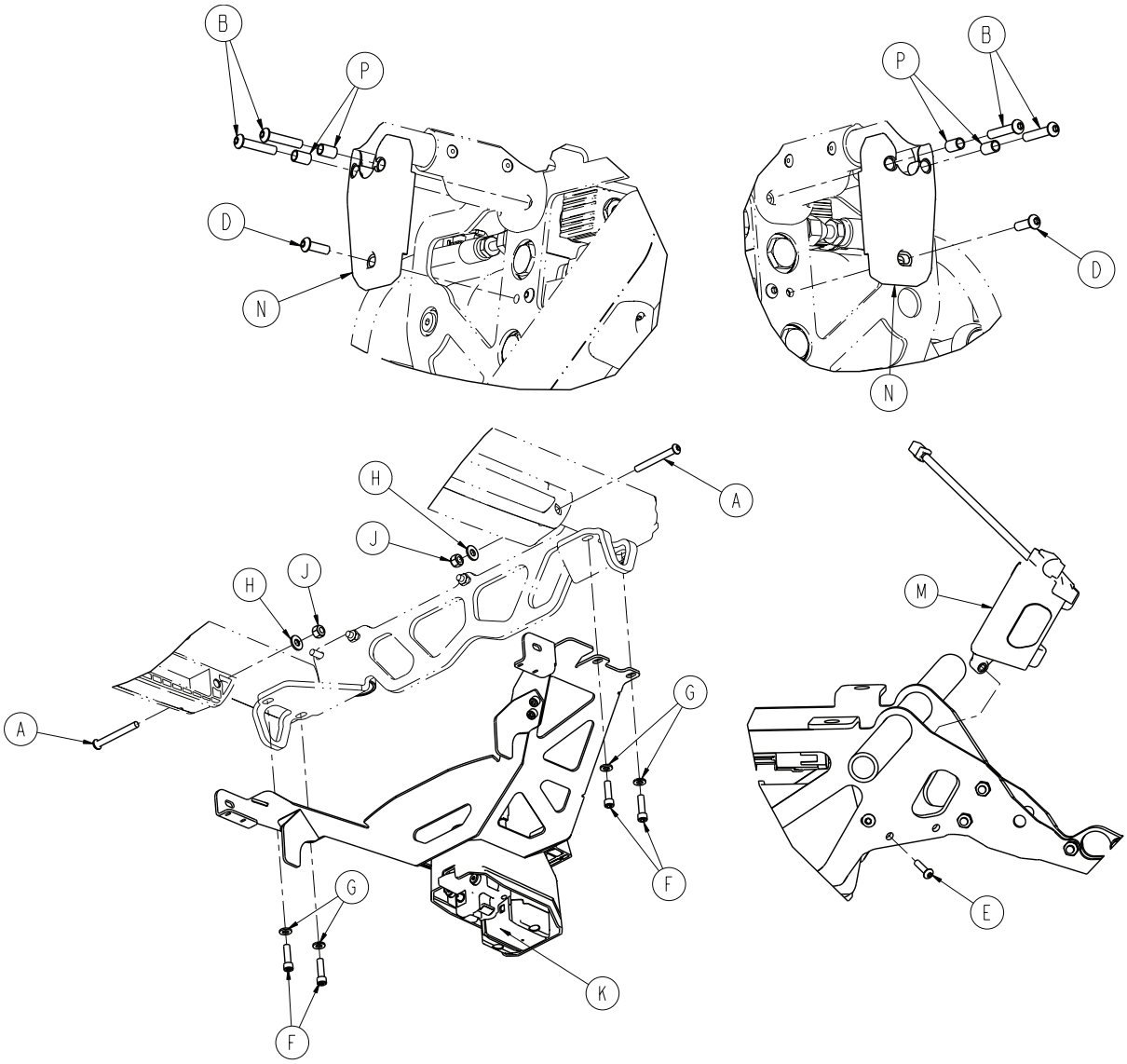
Item	Number	Name	Quantity
A	0004-517-000	Socket head cap screw	2
B	0004-589-000	Button head cap screw	2
C	0004-593-000	Button head cap screw	8
D	0004-596-000	Button head cap screw	2
E	0016-028-000	Fiberlock hex nut	2
F	6500-002-020	Head section - 6500-002-020 on page 85	1
G	0007-556-000	Truss head machine screw	2
H	6500-001-086	Wheel, front	2
J	6500-002-106	Load wheel fastener	2

Power-LOAD compatible option - 6516-144-000

Rev A (Reference only)



Power-LOAD compatible option - 6516-144-000



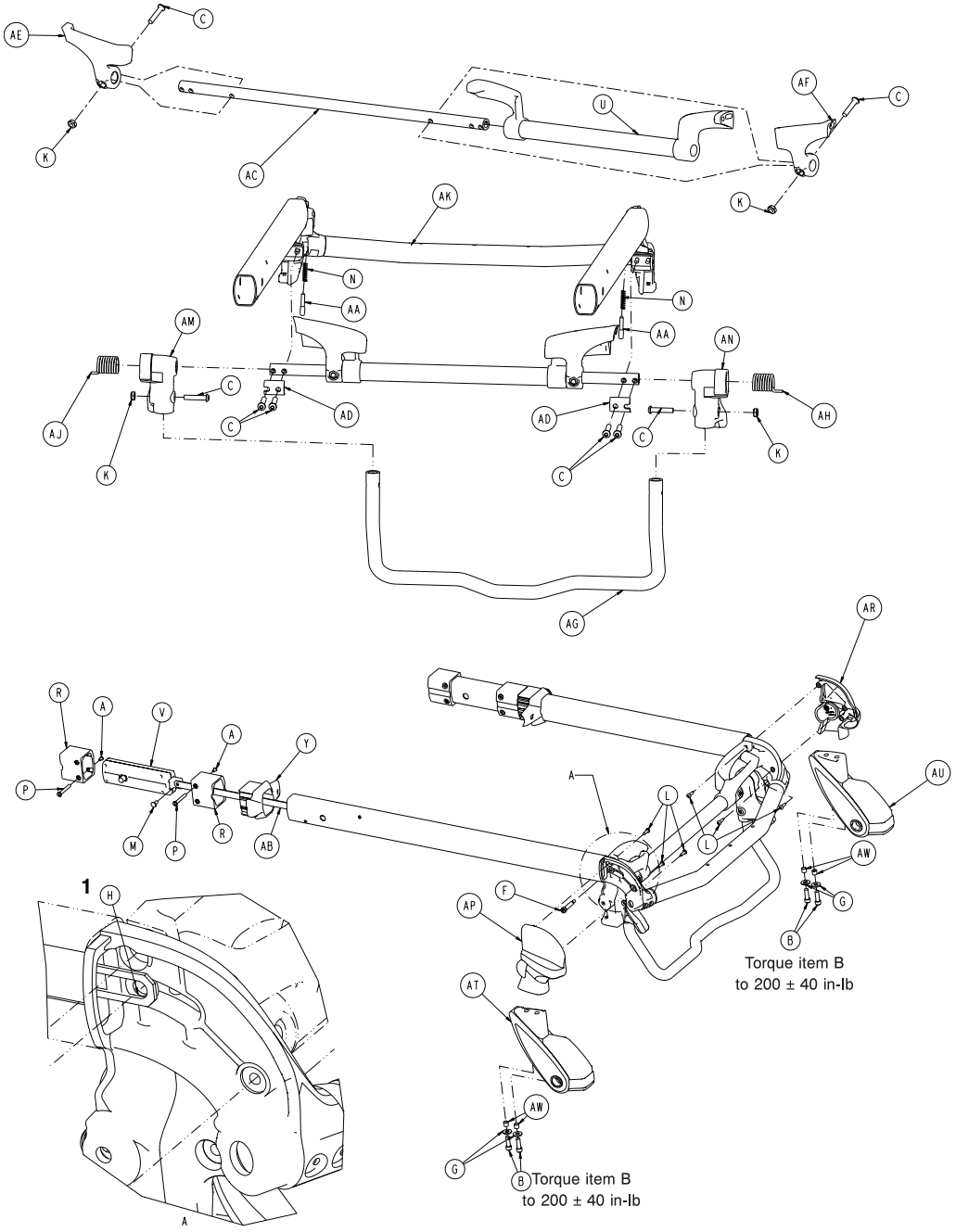
Item	Number	Name	Quantity
A	0004-387-000	Button head cap screw	2
B	0004-395-000	Button head cap screw	4
C	0004-517-000	Socket head cap screw	2
D	0004-593-000	Button head cap screw	2
E	0004-614-000	Button head cap screw	1
F	0004-661-000	Socket head cap screw	4
G	0011-065-000	Washer	4
H	0011-077-000	Washer	2
J	0016-028-000	Fiberlock hex nut	4
K	6500-002-013	Foot end fastener assembly	1
L	6500-002-020	Head section - 6500-002-020 on page 85	1
M	6500-002-100	Comm board, cot	1
N	6500-002-123	Arm spacer, cot	2
P	6500-002-124	Sleeve, spacer, cot arm	4

Power-LOAD compatible option - 6516-144-000

Item	Number	Name	Quantity
R	0007-556-000	Truss head machine screw	2
T	6500-001-086	Wheel, front	2
U	6500-002-104	Load wheel pin	2
V	6516-101-101	Label, FCC	1

Head section - 6500-002-020

Rev D (Reference only)



Note:

1	Place washer between the release link and forging

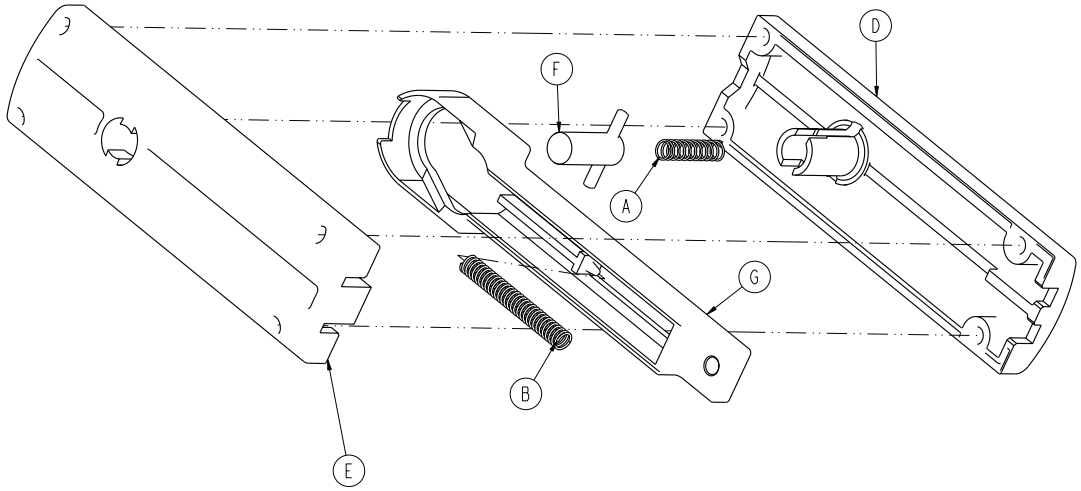
Item	Number	Name	Quantity
A	0004-168-000	Button head cap screw	4
B	0004-591-000	Socket head cap screw	4
C	0004-612-000	Button head cap screw	8
F	0008-030-000	Socket head shoulder screw	2

Head section - 6500-002-020

Item	Number	Name	Quantity
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	Head section nut	4
R	6085-001-170	Internal bearing	4
U	6500-001-023	Head trigger assembly	1
V	6500-001-026	Head section lock assembly - 6500-001-026 on page 87	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

Head section lock assembly - 6500-001-026

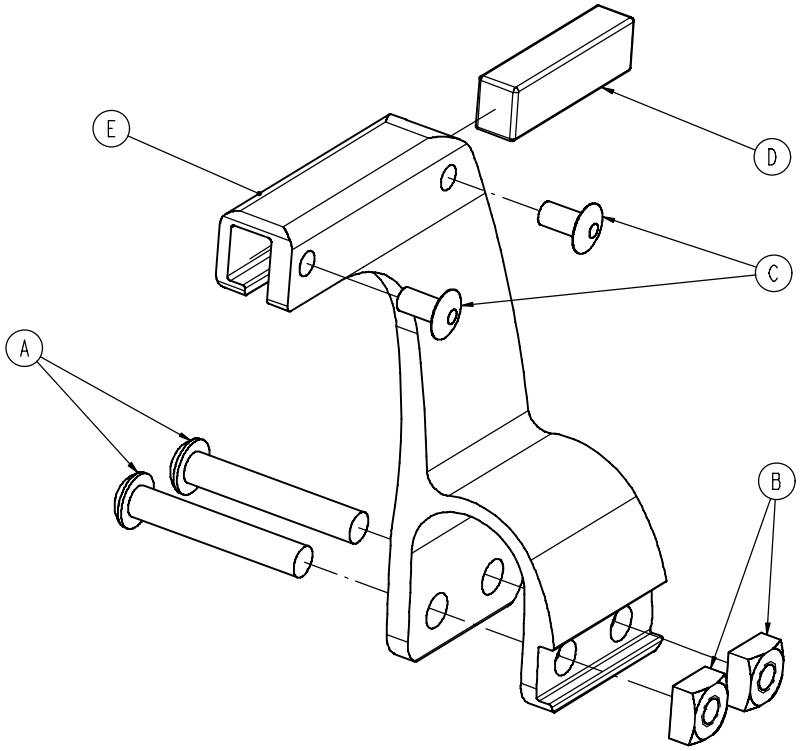
Rev C (Reference only)



Item	Number	Name	Quantity
A	0038-570-000	Compression spring	1
B	0038-134-000	Compression spring	1
D	6500-001-091	Top latch housing	1
E	6500-001-092	Bottom latch housing	1
F	6500-001-025	Latch assembly	1
G	6500-001-095	Actuation slide	1

In-fastener shut-off assembly, optional - 6500-001-027

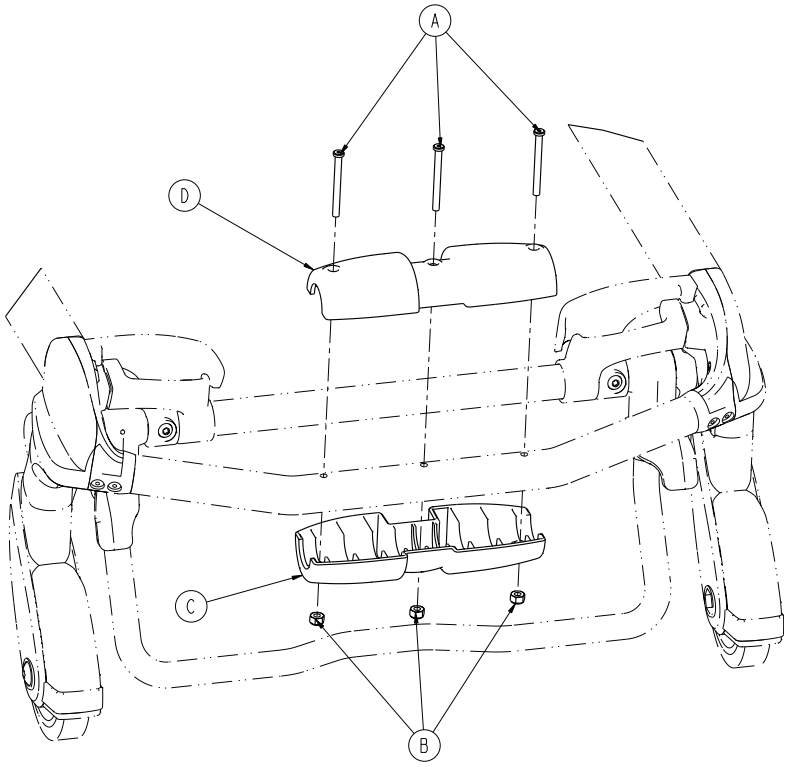
Rev C (Reference only)



Item	Number	Name	Quantity
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

No head section oxygen bottle holder option - 6506-036-000

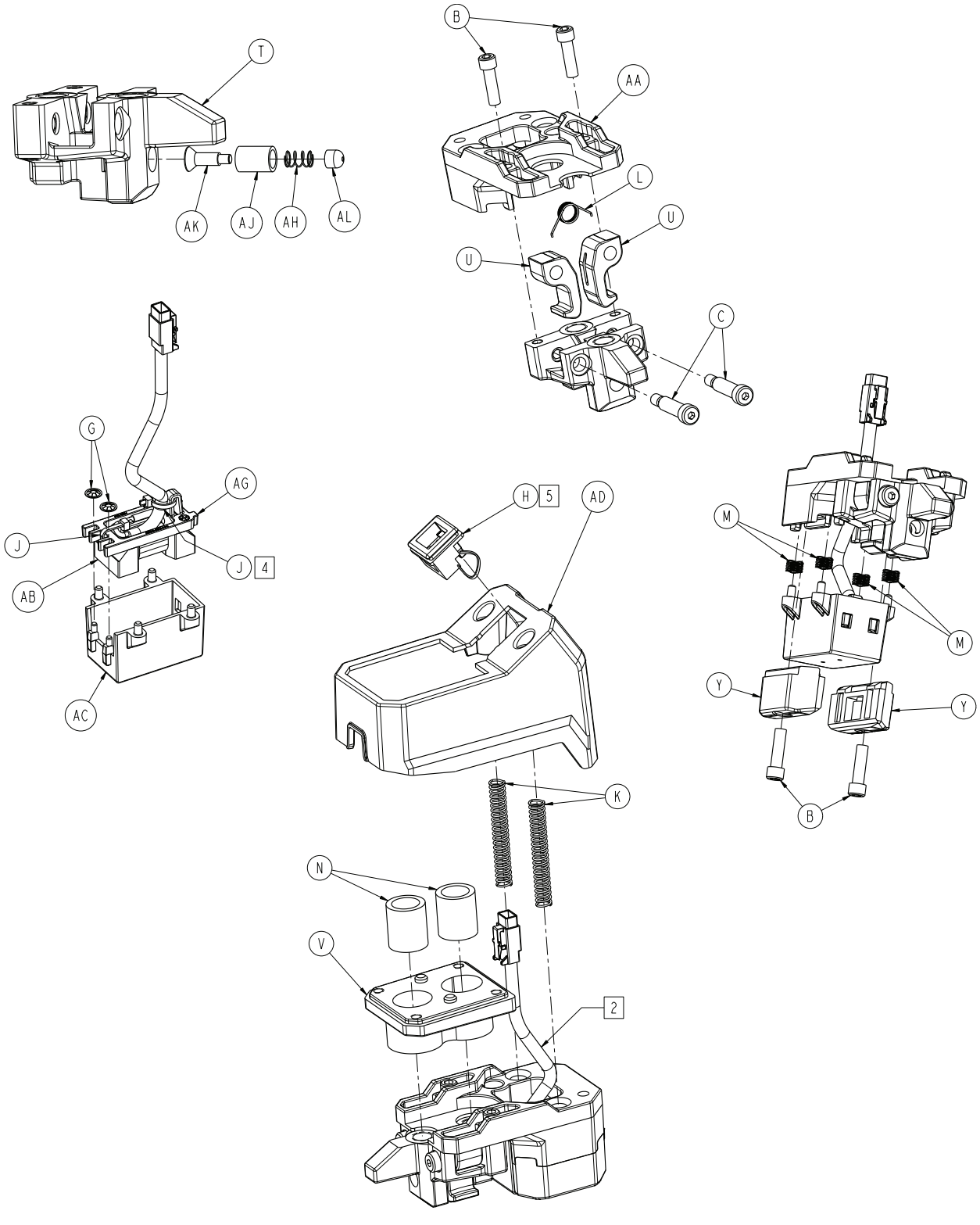
Rev A (Reference only)



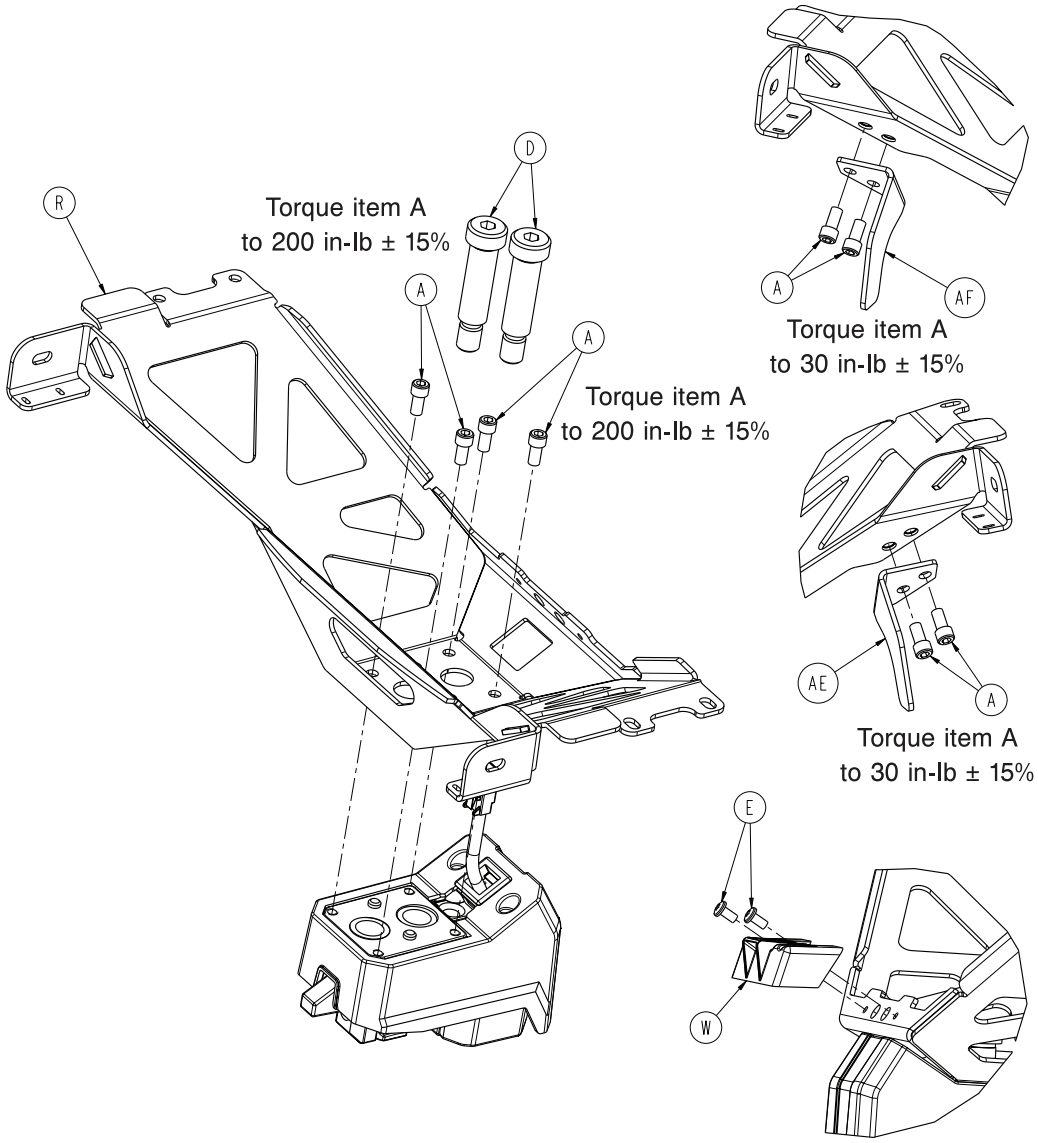
Item	Number	Name	Quantity
A	0004-656-000	Socket head cap screw	3
B	0016-002-000	Fiberlock hex nut	3
C	6085-001-174	Oxygen bottle holder, bottom	1
D	6500-002-156	Top guide, head end	1

Foot end fastener assembly (Power-LOAD compatible option)

6500-002-013 Rev F (Reference only)



Foot end fastener assembly (Power-LOAD compatible option)



Item	Number	Name	Quantity
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	Push nut	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

Foot end fastener assembly (Power-LOAD compatible option)

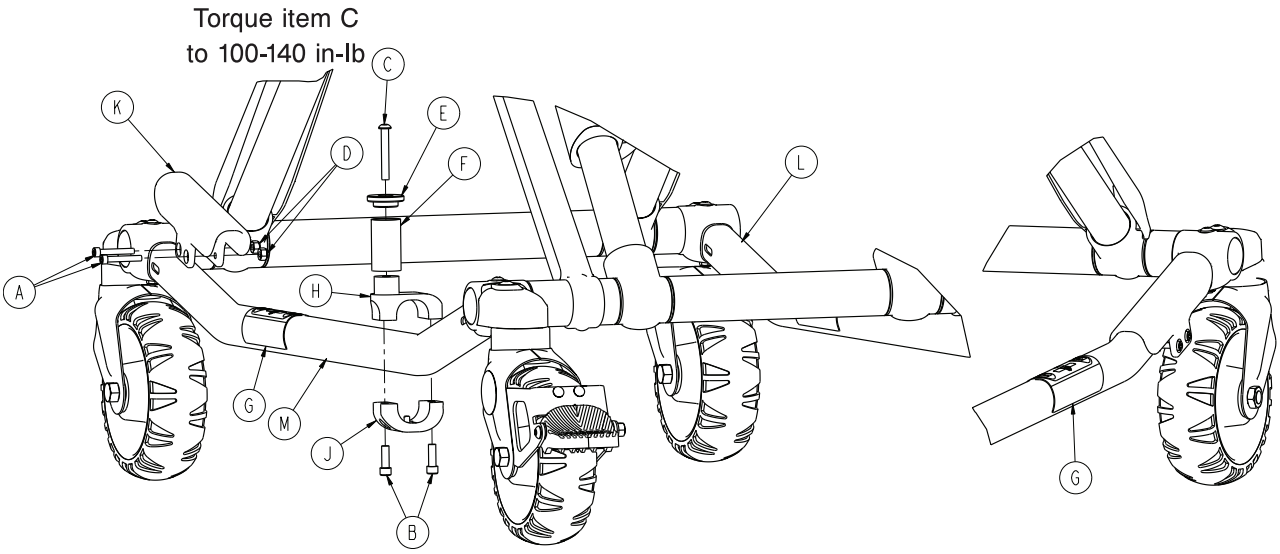
Item	Number	Name	Quantity
U	6500-002-112	Cot foot end fastener hook	2
V	6500-002-113	Foot end fastener bearing plate	1
W	6500-002-119	Foot end faster cot spacer	1
Y	6500-002-122	Foot end faster cot wear pad	2
AA	6500-002-129	Floating plate	1
AB	6500-002-133	Cot secondary coil	1
AC	6500-002-135	Cot foot 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

Notes:

2	Leave enough slack in the cable in the indicated area to allow item AC to have a full range of travel after assembly
4	Install zip tie around large wire jacket, as shown
5	Leave the strain relief loose on the wire

Cot retaining post, right - 6085-033-000

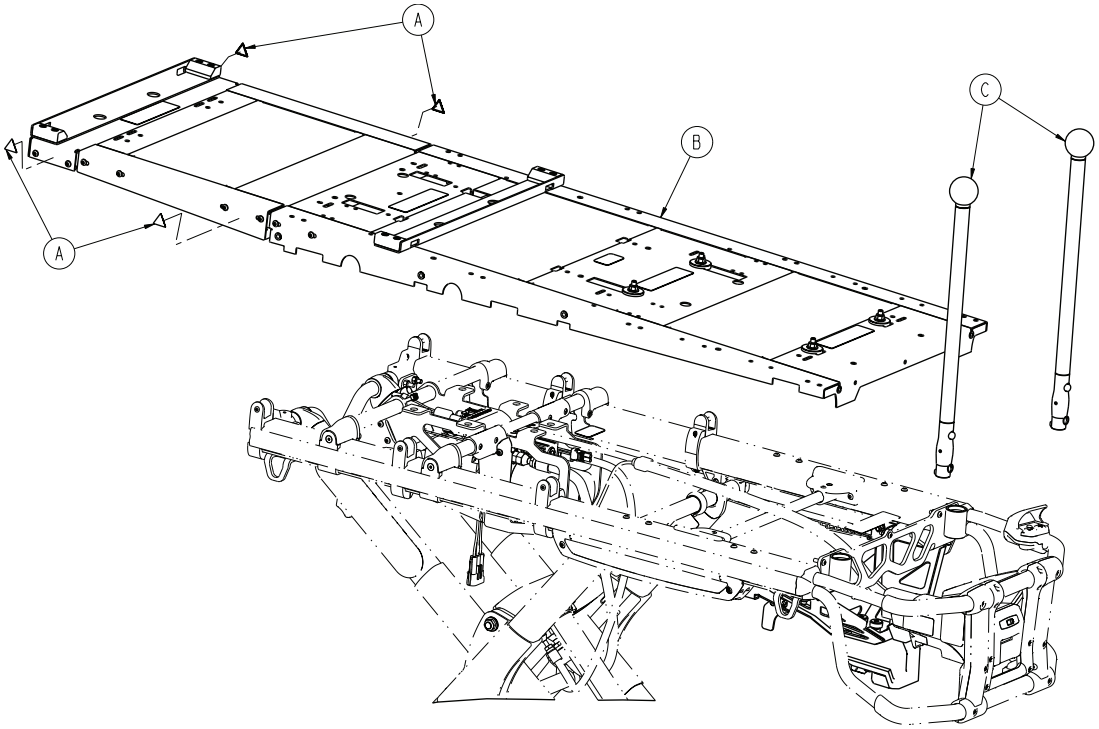
Rev E (Reference only)



Item	Number	Name	Quantity
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	6500-101-189	Top pin bracket	1
J	6500-101-190	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

Airborne side-by-side assembly option - 6516-128-000

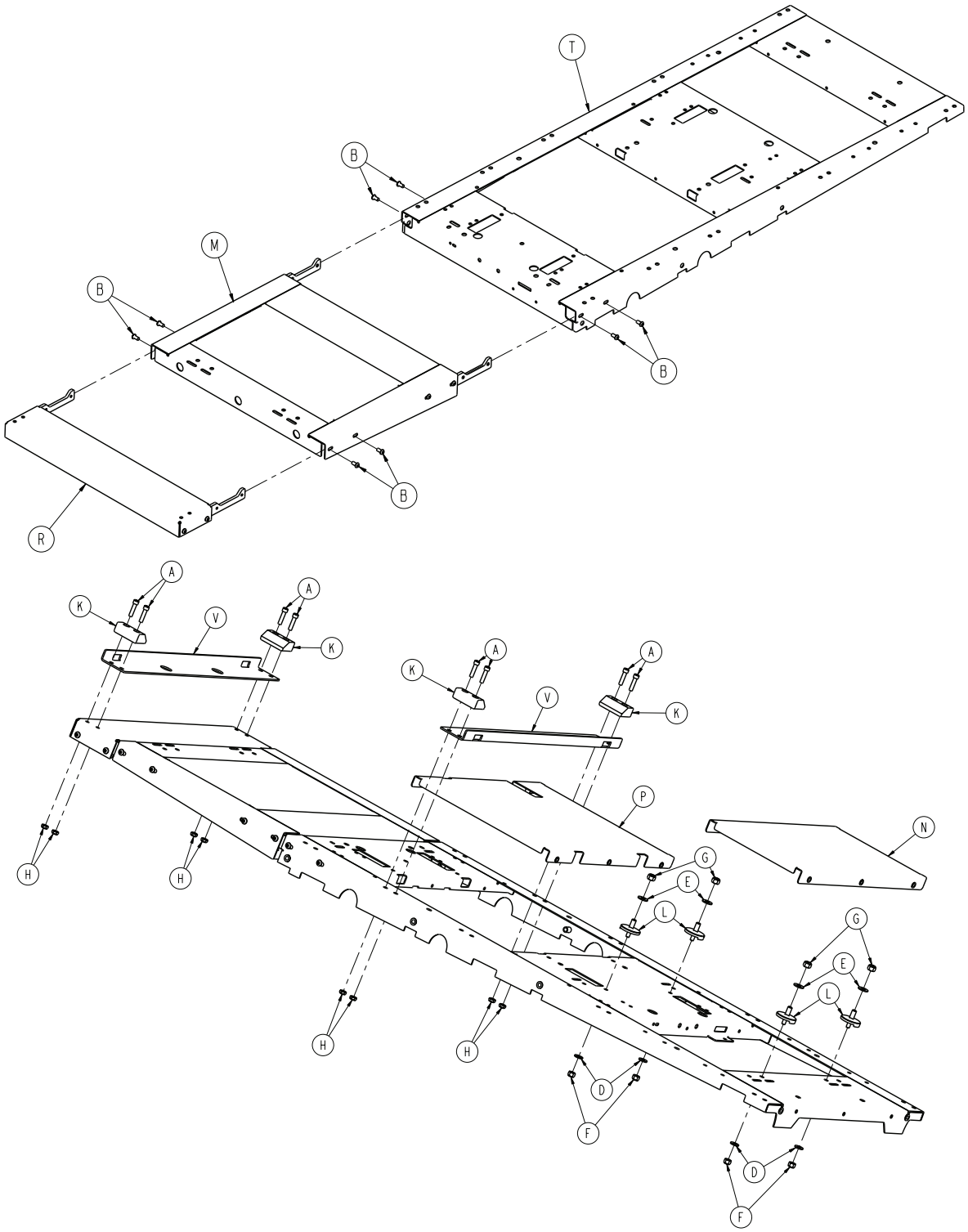
Rev A (Reference only)



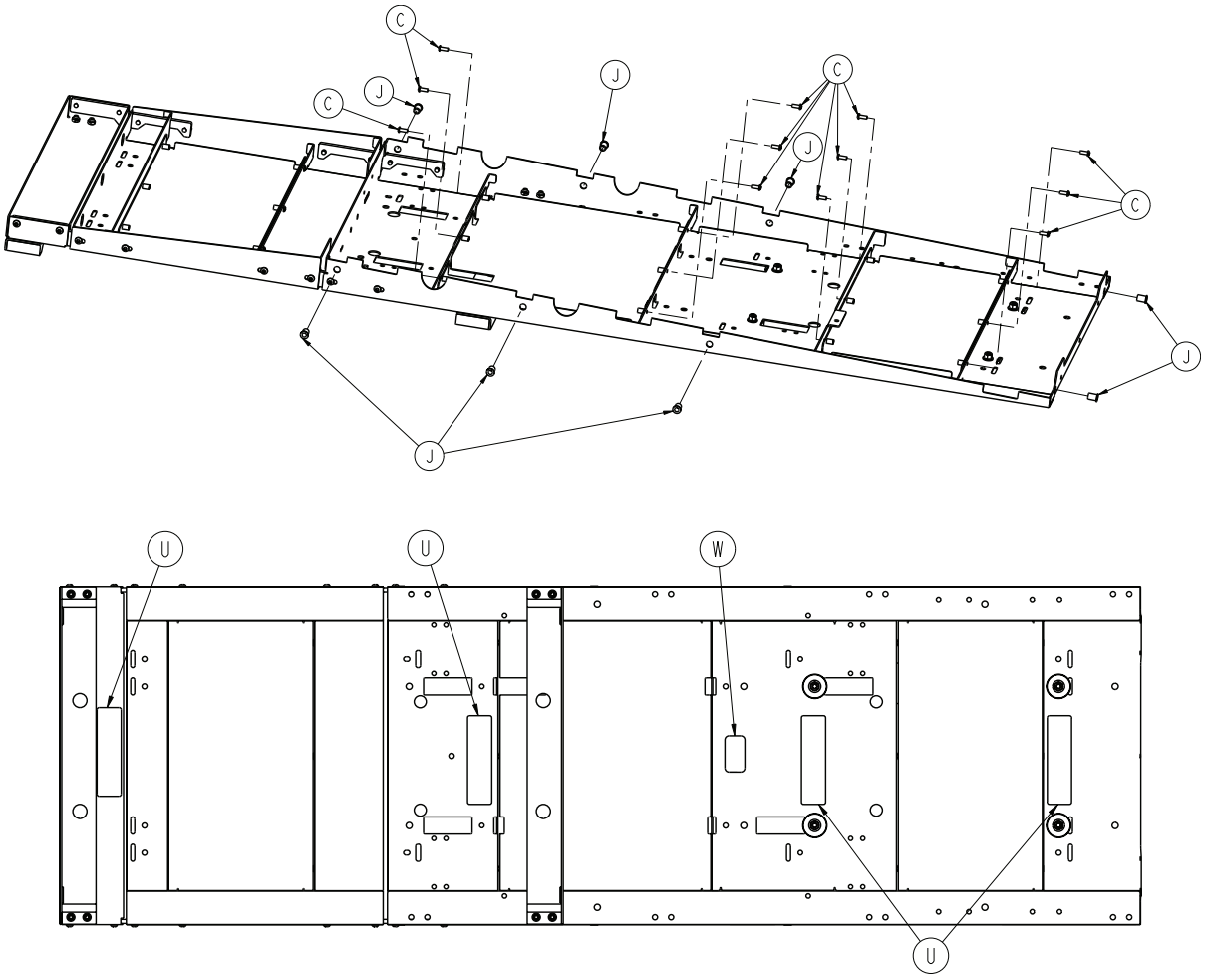
Item	Number	Name	Quantity
A	6506-001-905	Label, warning, crushing of hands	4
B	6516-101-017	Incubator adapter, airborne side-by-side	1
C	6550-001-026	Handle, corner, assembly	2

Incubator adapter, airborne side-by-side

6516-101-017 Rev A (Reference only)



Incubator adapter, airborne side-by-side



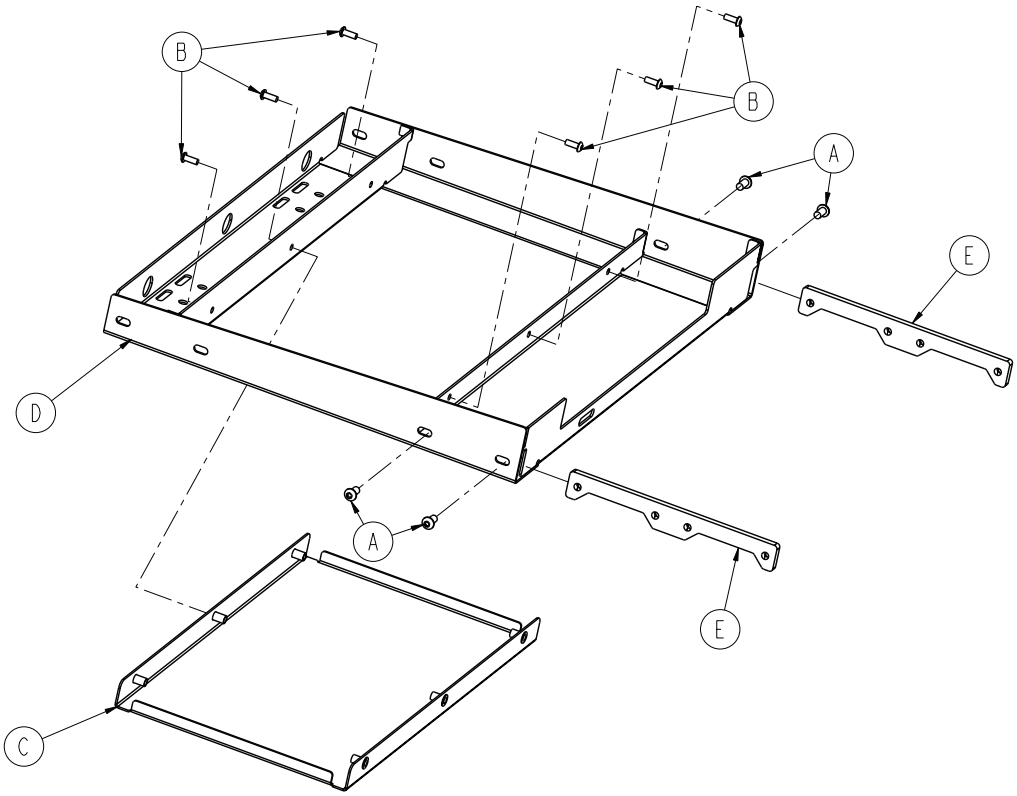
Item	Number	Name	Quantity
A	0004-028-000	Socket head cap screw	8
B	0004-589-000	Button head cap screw	8
C	0004-634-000	Button head cap screw	12
D	0011-077-000	Washer	4
E	0011-447-000	Washer	4
F	0016-028-000	Fiberlock hex nut	4
G	0016-036-000	Nylock hex nut	4
H	0016-102-000	Nylock hex nut	8
J	0055-100-076	Riv nut	8
K	6081-200-022	Wedge, airborne IT cot	4
L	6081-201-020	Mounting stud	4
M	6510-001-018	Extension assembly	1
N	6510-001-021	Skin assembly	1
P	6510-001-022	Skin assembly	1
R	6510-001-026	Extension assembly, short	1
T	6510-001-050	Weldment, litter, main	1
U	6510-101-128	Label, warning	4

Incubator adapter, airborne side-by-side

Item	Number	Name	Quantity
V	6516-001-131	Mounting angle	2
W	6516-101-106	Label, specification, airborne oxygen side-by-side	1

Extension assembly - 6510-001-018

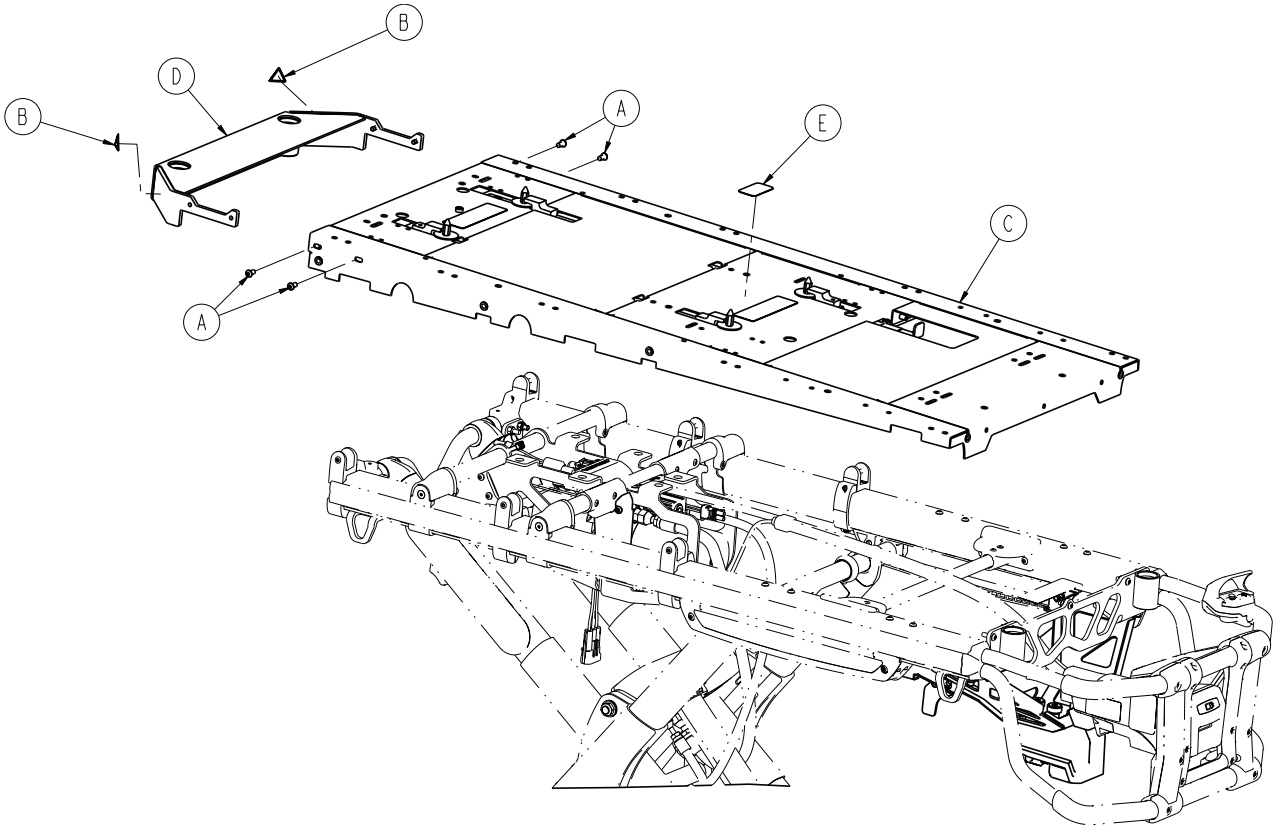
Rev B (Reference only)



Item	Number	Name	Quantity
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	Weldment, litter extension	1
E	6510-001-090	Connecting bar	2

Drager® stackable option - 6516-129-000

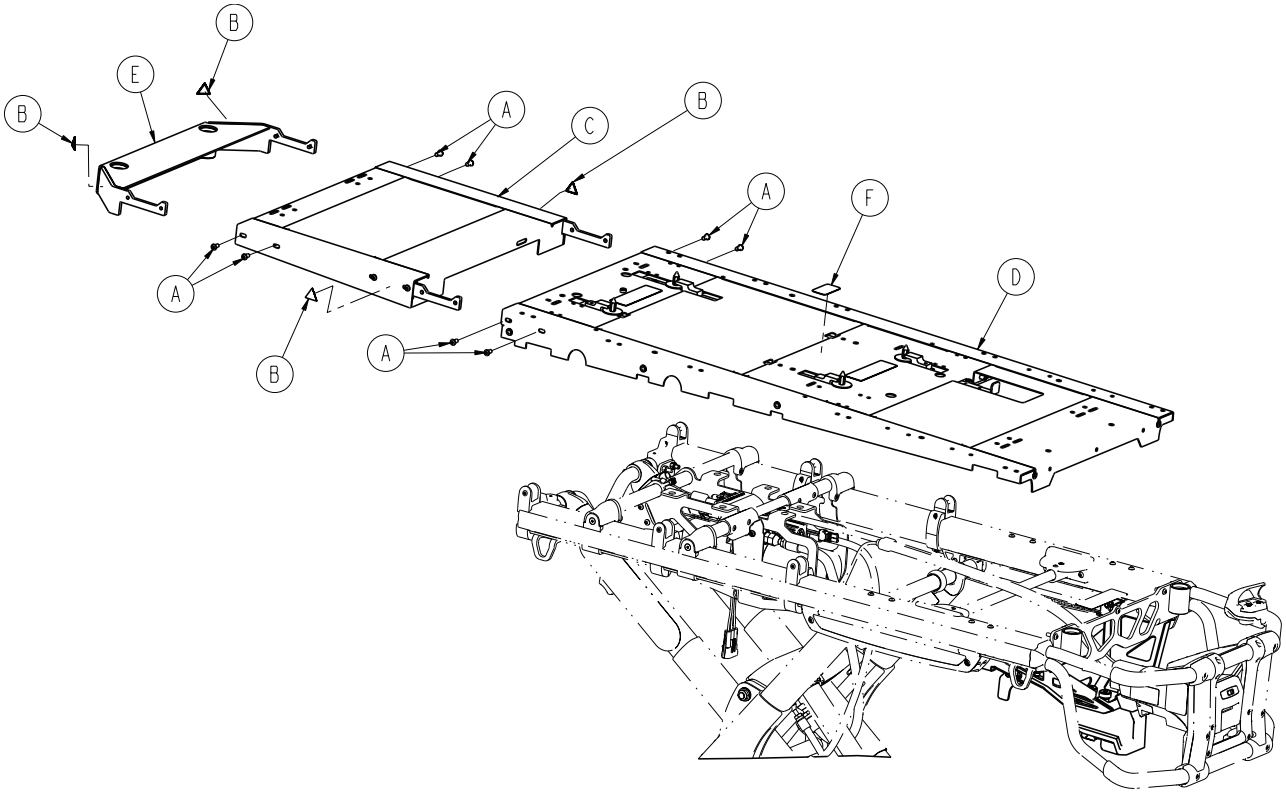
Rev A (Reference only)



Item	Number	Name	Quantity
A	0004-589-000	Button head cap screw	4
B	6506-001-905	Label, warning: crushing of hands	2
C	6510-101-019	Incubator adaptor assembly Drager®	1
D	6510-101-053	Weldment, socket, head end	1
E	6516-101-107	Label, specification, Drager®	1

Drager® extended assembly option - 6516-141-000

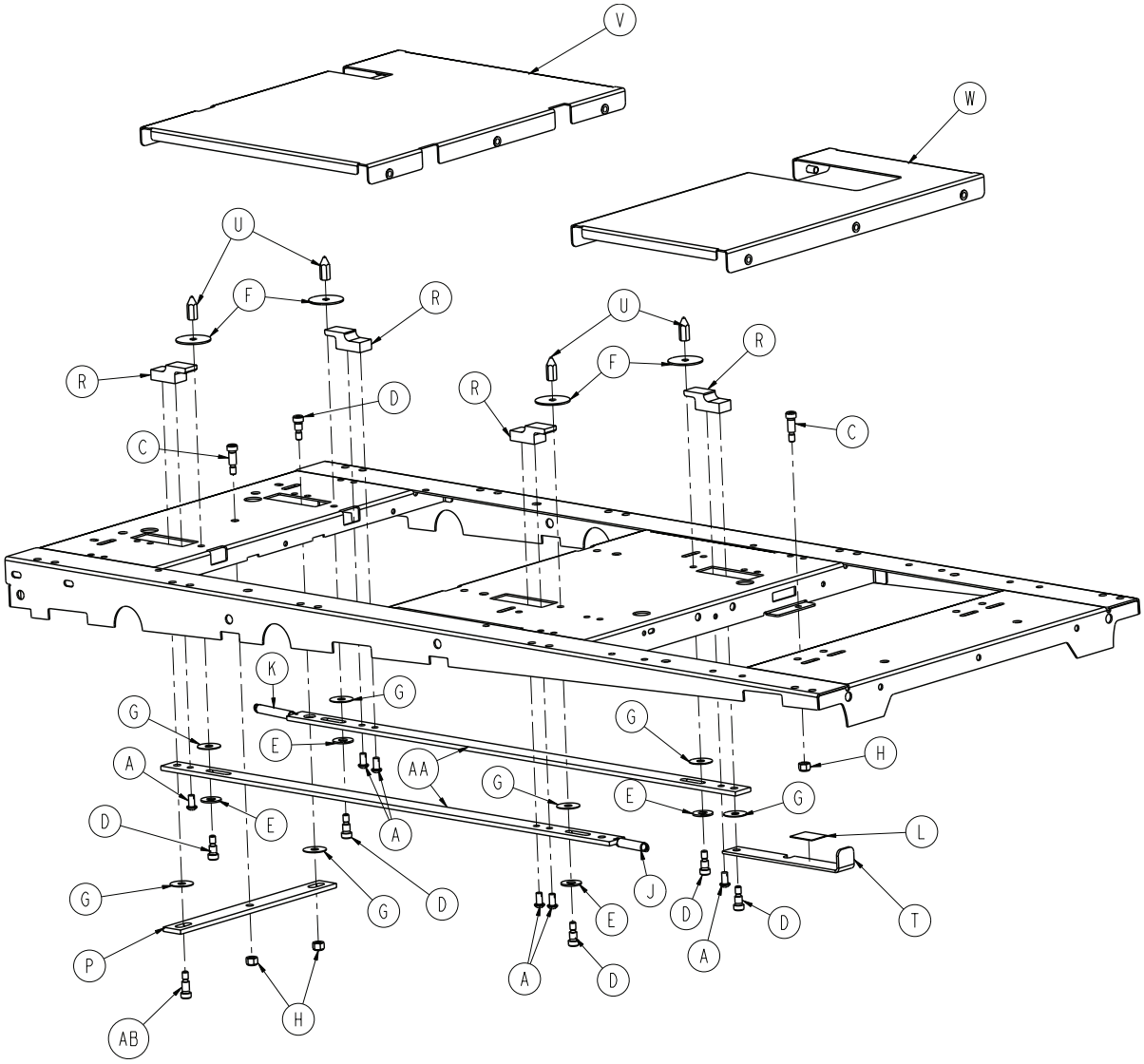
Rev A (Reference only)



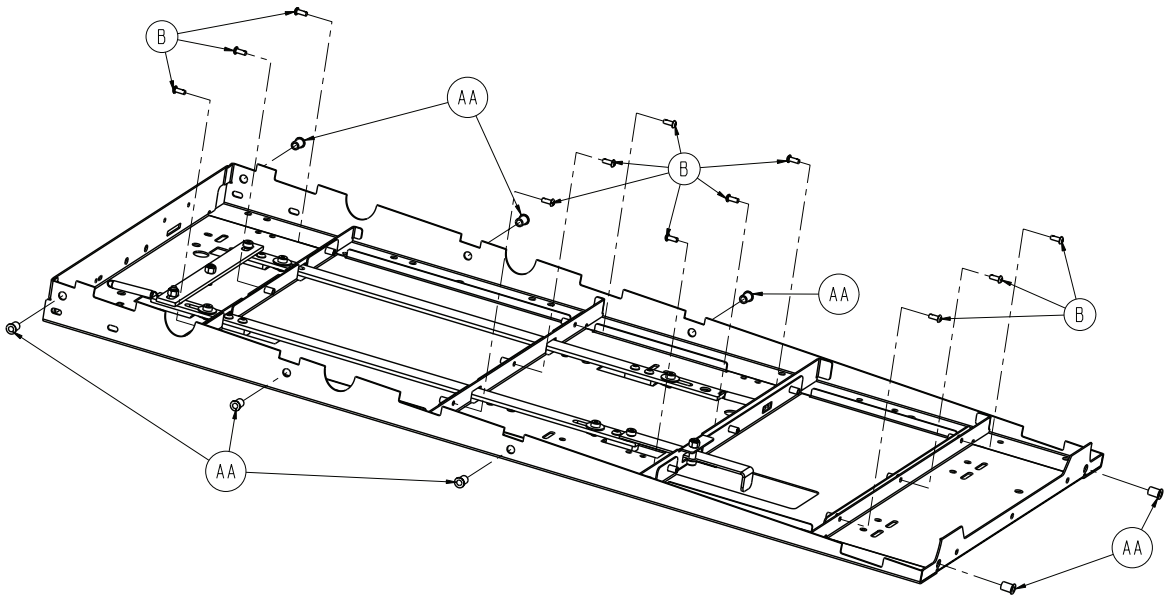
Item	Number	Name	Quantity
A	0004-589-000	Button head cap screw	8
B	6506-001-905	Label, warning: crushing of hands	4
C	6510-001-018	Extension assembly	1
D	6510-101-019	Incubator adaptor assembly, Drager®	1
E	6510-101-053	Weldment, socket, head end	1
F	6516-101-123	Label, Drager® extended	1

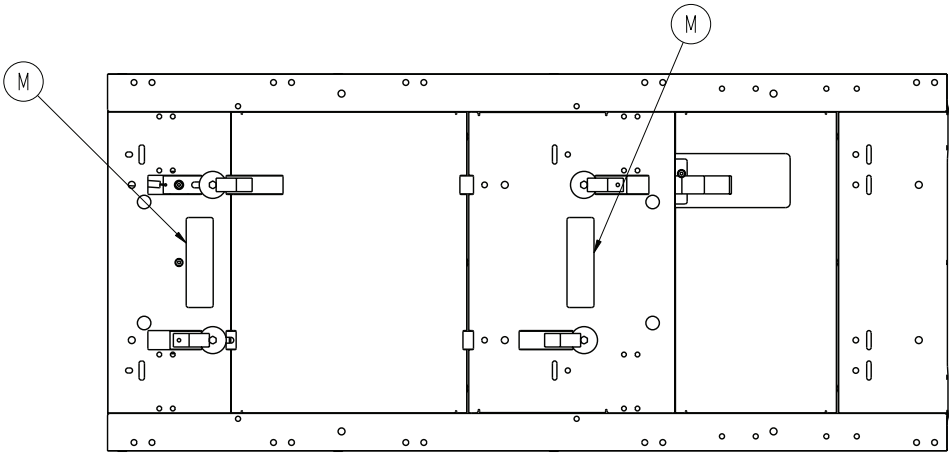
Incubator adaptor assembly - Drager®

6510-101-019 Rev A (Reference only)



Incubator adaptor assembly - Drager®





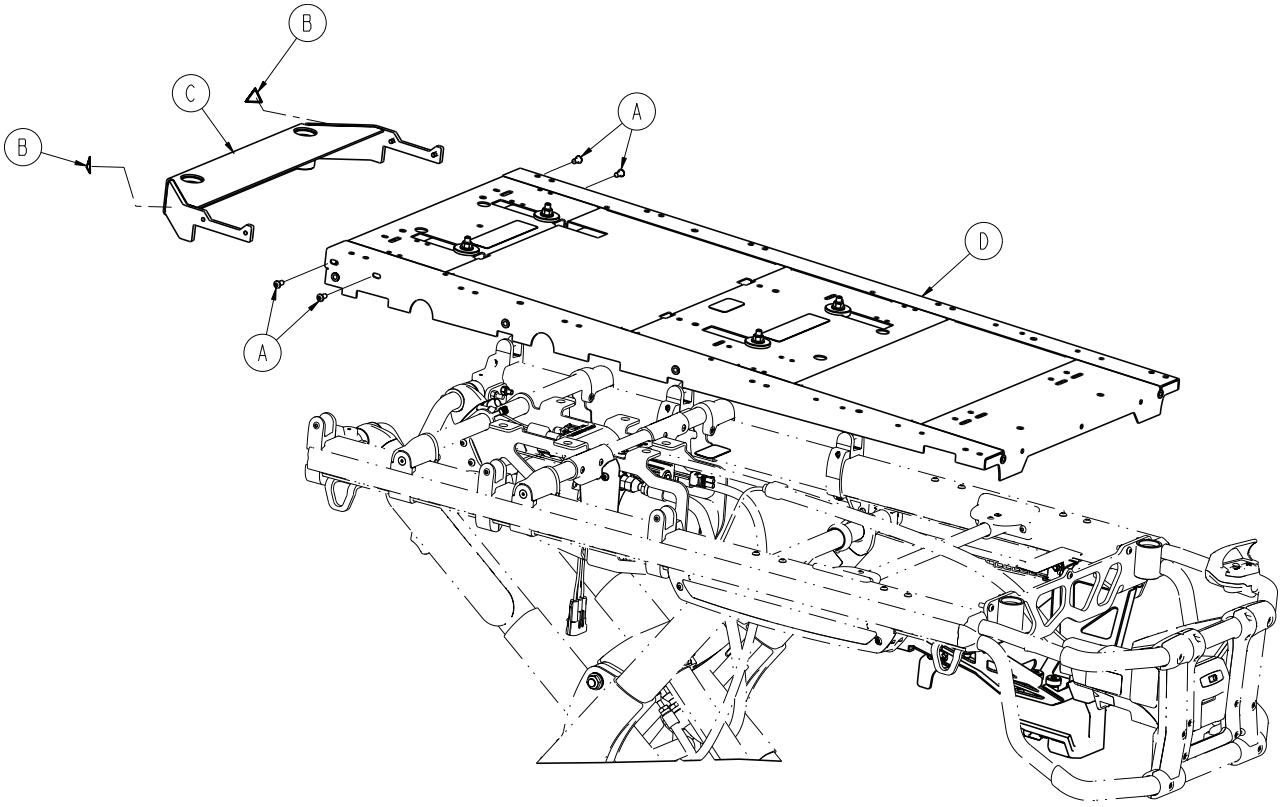
Item	Number	Name	Quantity
A	0004-589-000	Button head cap screw	6
B	0004-634-000	Button head cap screw	12
C	0008-015-000	Socket head set screw	2
D	0008-051-000	Socket head set screw	6
E	0011-193-000	Washer	4
F	0011-445-000	Washer	4
G	0014-019-000	Washer	7
H	0016-028-000	Fiberlock hex nut	3
J	0038-453-000	Extension spring	1
K	0038-576-000	Extension spring	1
L	6081-090-303	Label, lock pull	1
M	6510-101-125	Label, warning	2
N	6081-300-020	Slide bar	2
P	6081-300-021	Tie bar - air shields	1
R	6081-300-022	Lock blade	4

Incubator adaptor assembly - Drager®

Item	Number	Name	Quantity
T	6081-300-023	Pull handle air shields	1
U	6081-300-024	Hex pin (air shields)	4
V	6510-001-022	Skin assembly	1
W	6510-001-023	Skin assembly	1
Y	6510-001-050	Weldment, litter, main	1
AA	0055-100-076	Riv nut	8
AB	0008-049-000	Socket head set screw	1

Airborne stackable assembly option - 6516-127-000

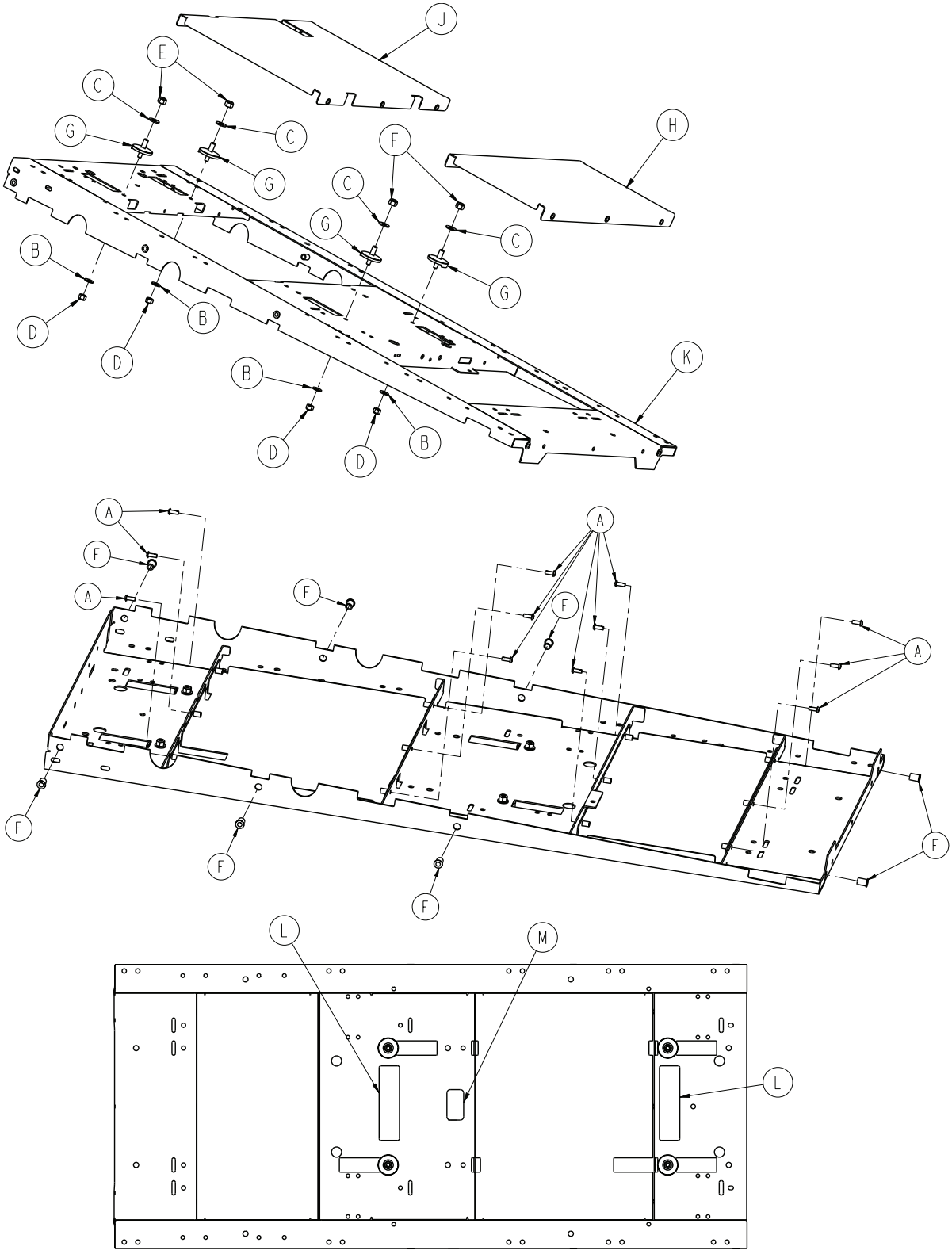
Rev A (Reference only)



Item	Number	Name	Quantity
A	0004-589-000	Button head cap screw	4
B	6506-001-905	Label, warning: crushing of hands	2
C	6510-101-053	Weldment, socket, head end	1
D	6516-101-020	Incubator adapter assembly, airborne	1

Incubator adaptor assembly - airborne stackable

6516-101-020 Rev A (Reference only)

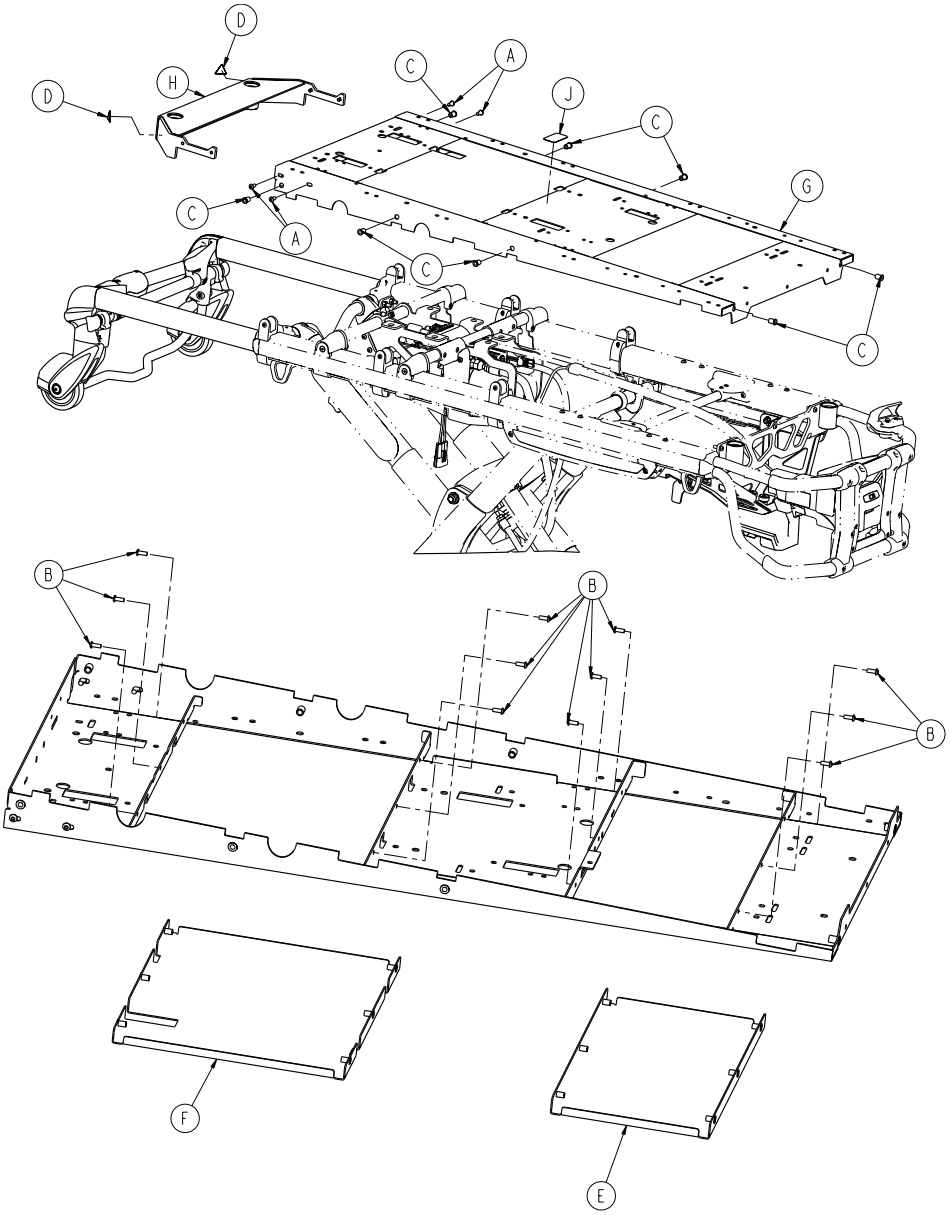


Incubator adaptor assembly - airborne stackable

Item	Number	Name	Quantity
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	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	Weldment, litter, main	1
L	6510-101-128	Label, warning	2
M	6516-101-105	Label, specification, airborne oxygen	1

No adapter assembly option, air sled - 6516-142-000

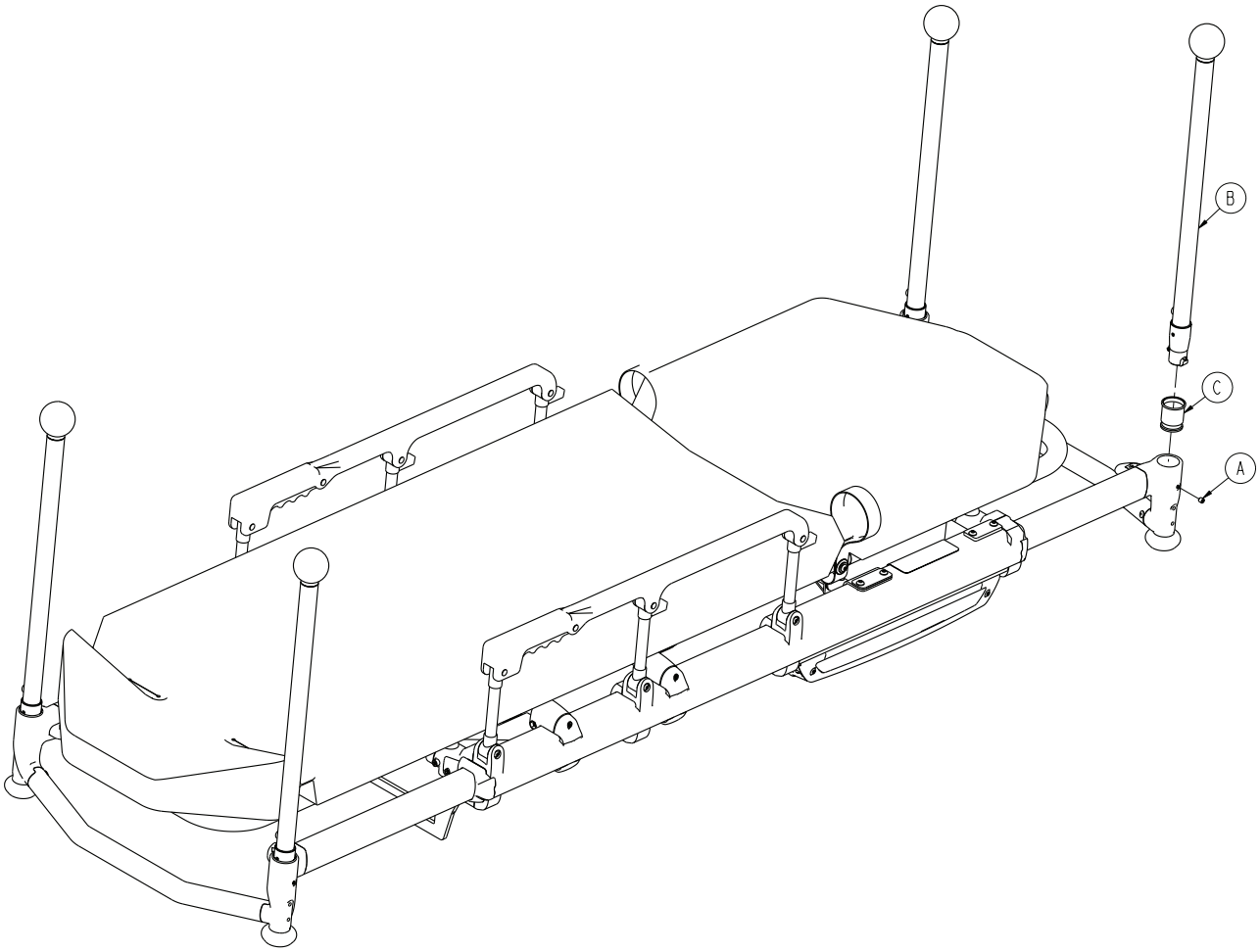
Rev A (Reference only)



Item	Number	Name	Quantity
A	0004-589-000	Button head cap screw	4
B	0004-634-000	Button head cap screw	12
C	0055-100-076	Riv nut	8
D	6506-001-905	Label, warning: crushing of hands	2
E	6510-001-021	Skin assembly	1
F	6510-001-022	Skin assembly	1
G	6510-001-050	Weldment, litter, main	1
H	6510-101-053	Weldment, socket, head end	1
J	6516-101-124	Label, specification, no adapter option	1

Optional push bar - 6550-040-000

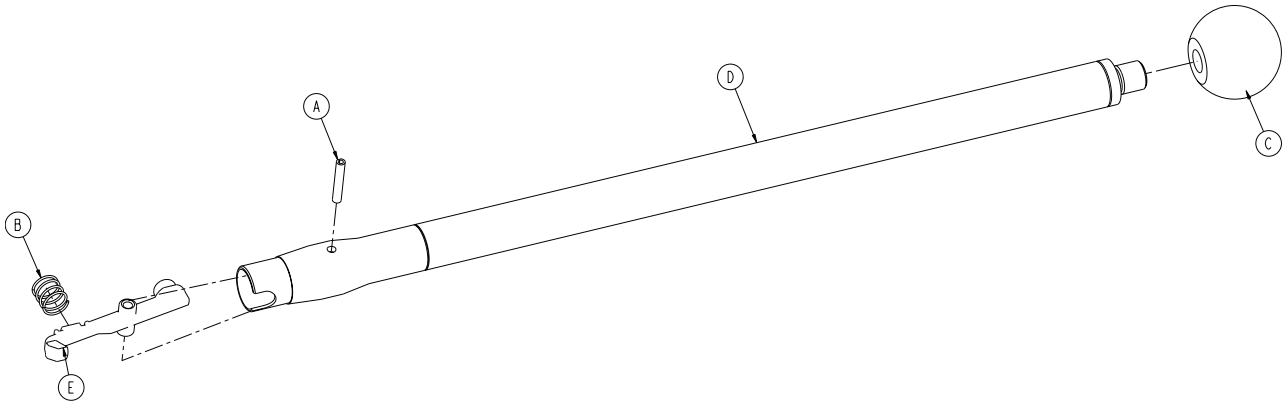
Rev A (Reference only)



Item	Number	Name	Quantity
A	0021-179-000	Set screw	4
B	6550-001-026	Optional corner handle assembly on page 109	4
C	6550-001-108	Push bar sleeve	4
D	6550-001-199	Push bar storage pouch	1

Optional corner handle assembly

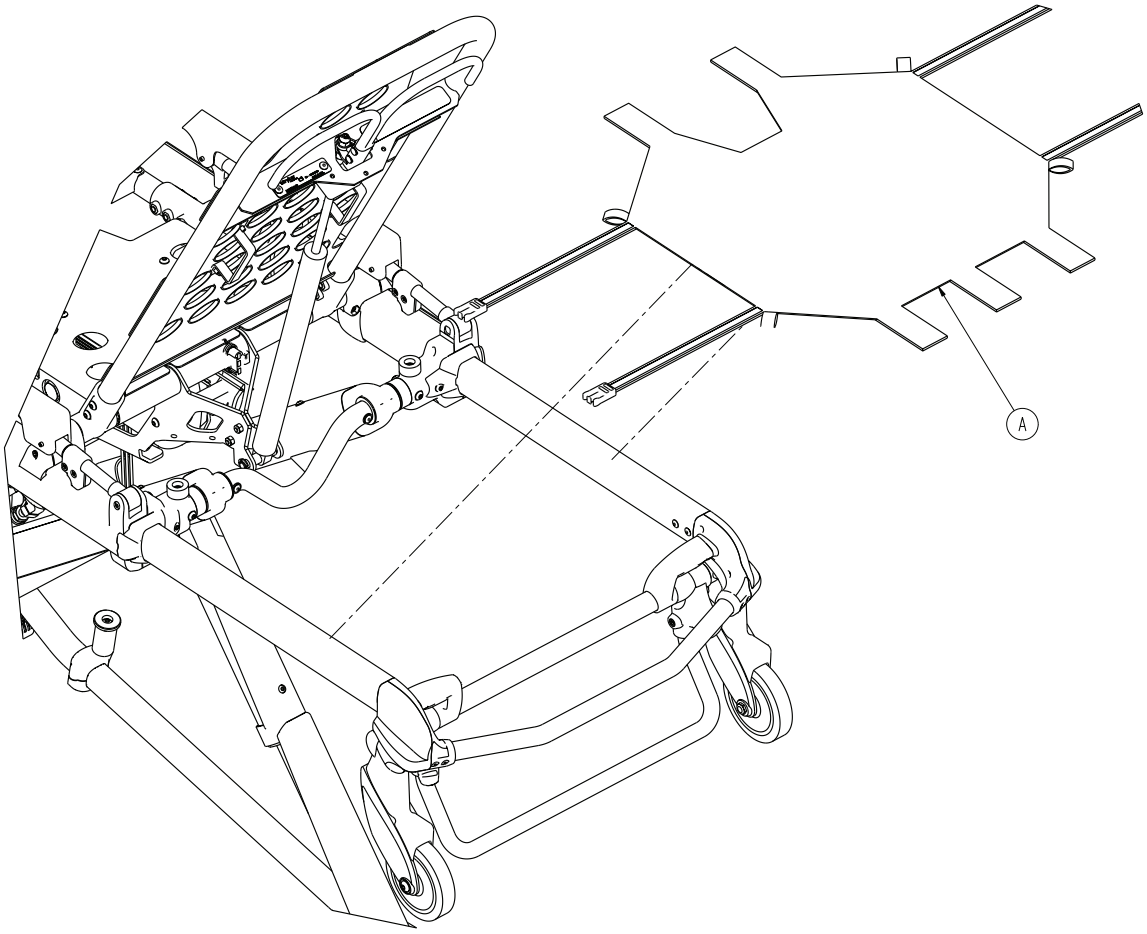
6550-001-026 Rev B (Reference only)



Item	Number	Name	Quantity
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

Head end storage flat - 6500-128-000

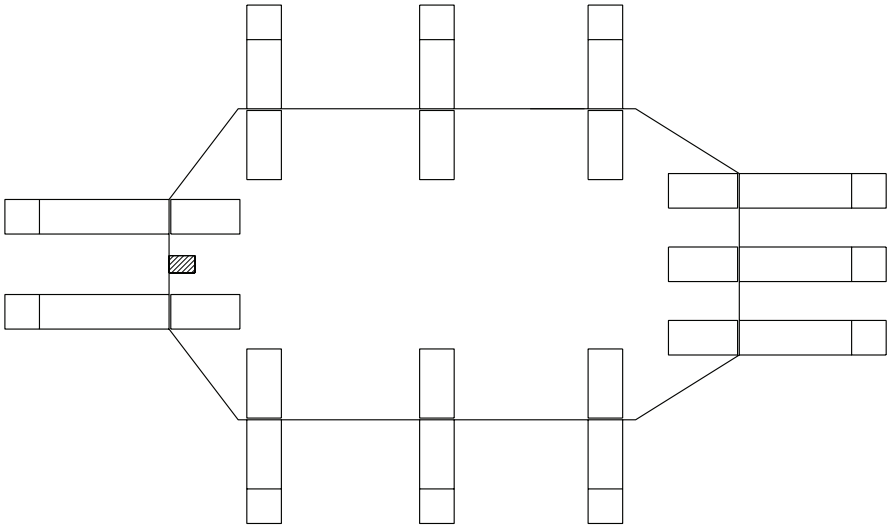
Rev A (Reference only)



Item	Number	Name	Quantity
A	6500-001-232	Head end storage flat	1

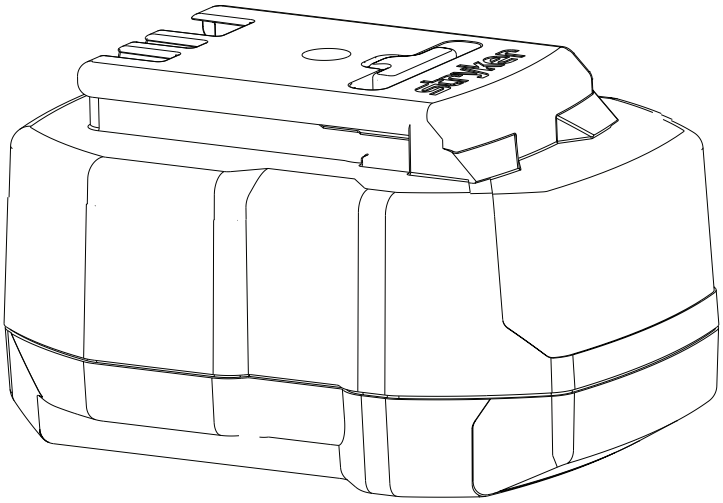
Base storage net - 6500-160-000

Rev A / 6500-001-126 Rev E (Reference only)



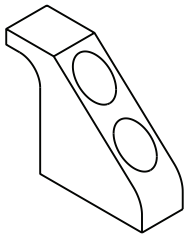
Battery pack, SMRT - 6500-033-000

Rev A/6500-101-010 Rev H (Reference only)

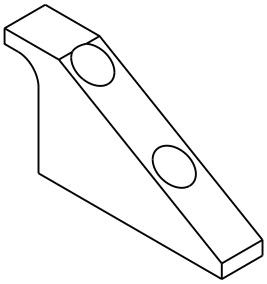


Safety hook, short - 6060-036-017/ Safety hook, long - 6060-036-018/ Safety hook, J - 6092-036-018

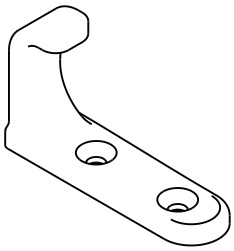
Safety hook, short - 6060-036-017 Rev A (Reference only)



Safety hook, long - 6060-036-018 Rev D (Reference only)



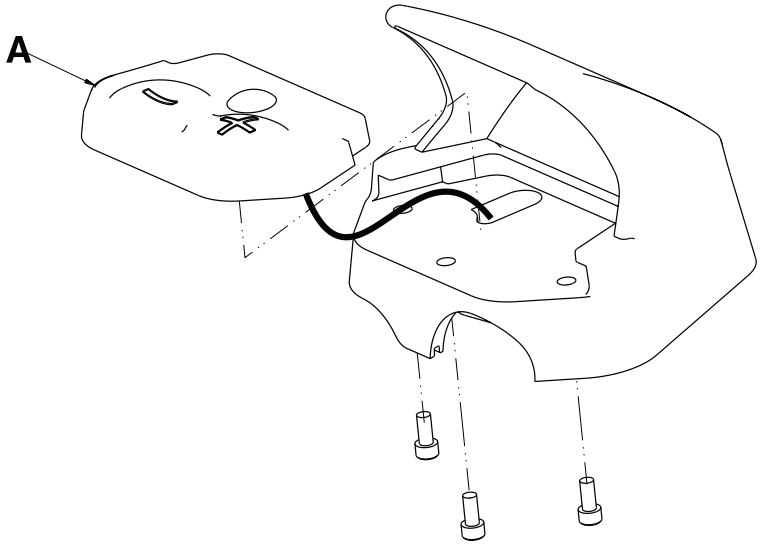
Safety hook, J - 6092-036-018 Rev A (Reference only)



Recycling passport

Recycling passport

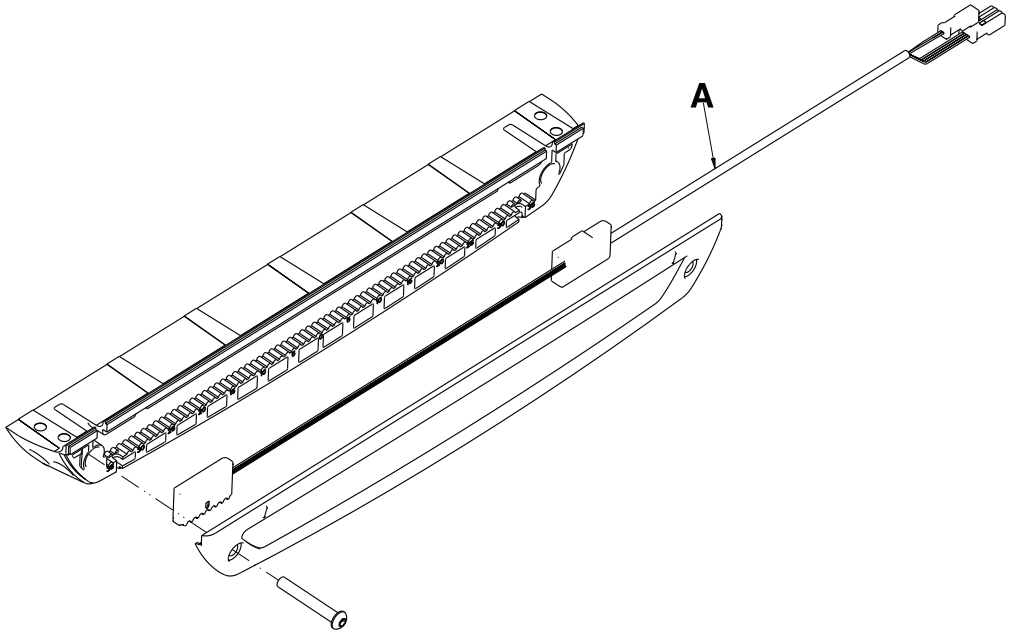
6500-101-016 (Reference only)



Item	Recycling/material code	Important information	Quanti-ty
A	Printed circuit board		2

Recycling passport

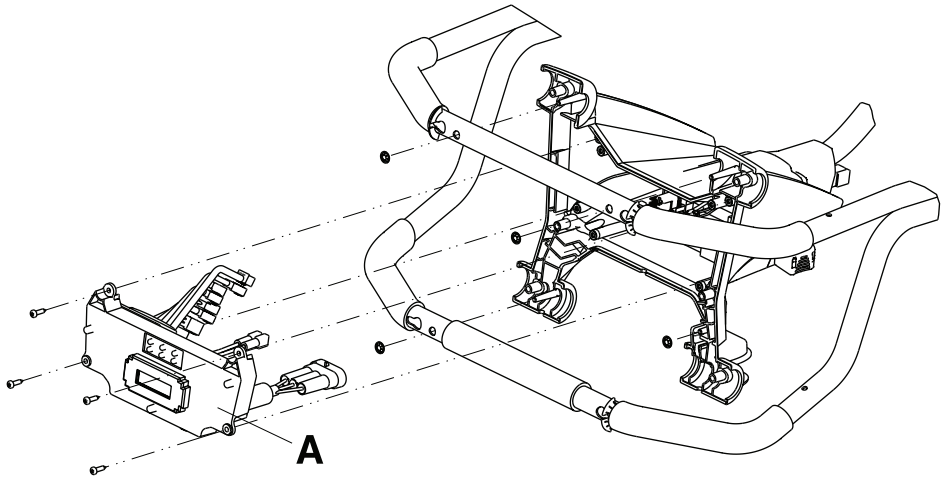
6500-002-028 (Reference only)



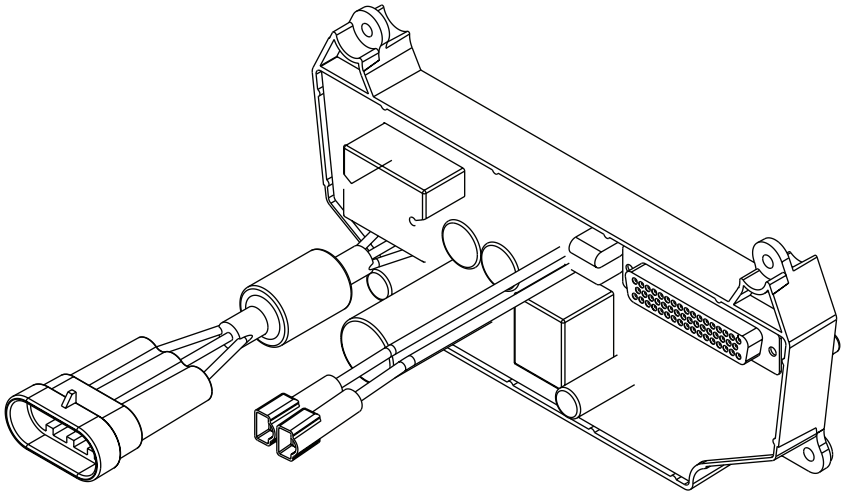
Item	Recycling/material code	Important information	Quanti-ty
A	Printed circuit board		1

Recycling passport

6500-102-015 (Reference only)



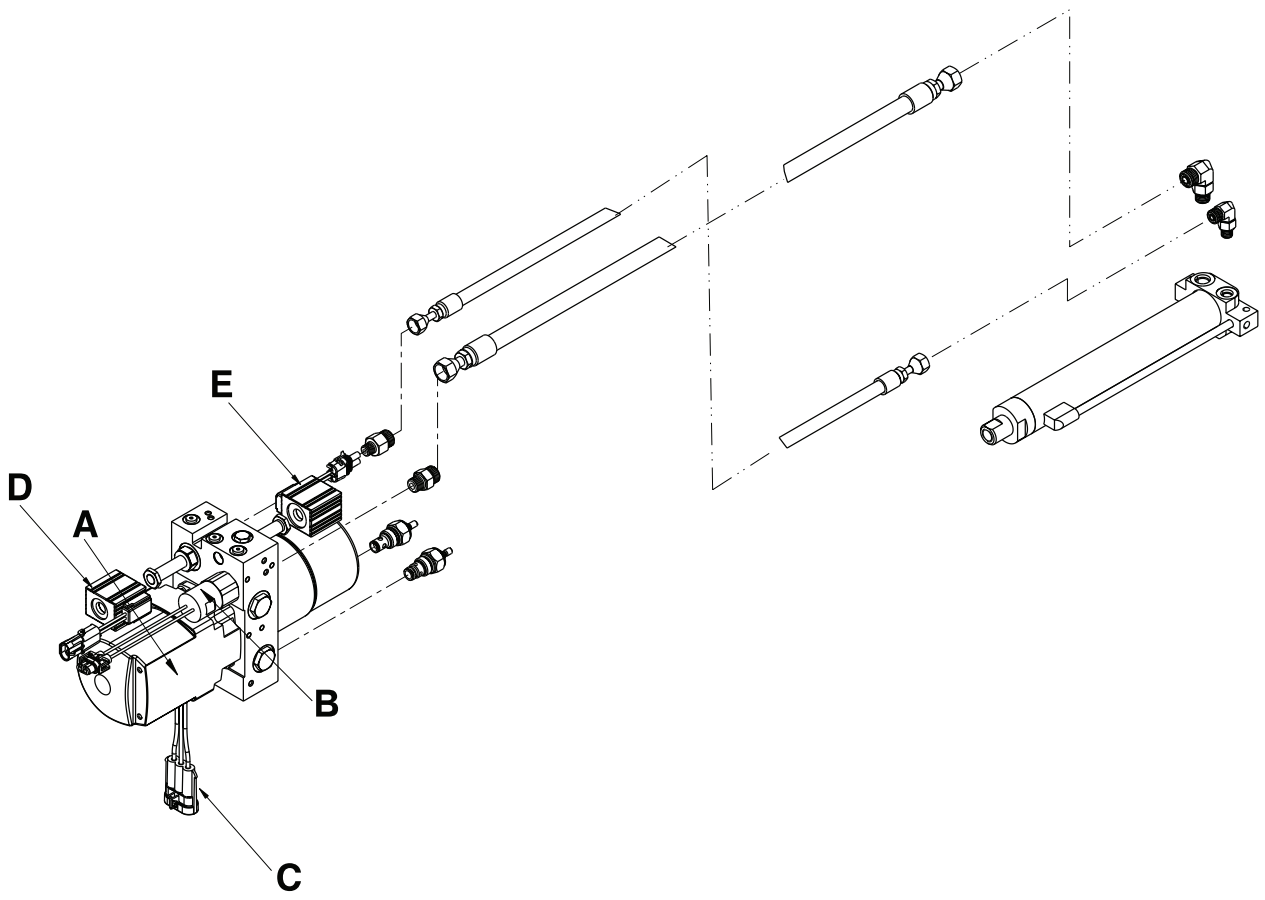
6500-002-014 (Reference only)



Item	Recycling/material code	Important information	Quanti-ty
A	Printed circuit board	Contains liquid crystal display	1

Recycling passport

6500-001-030 (Reference only)

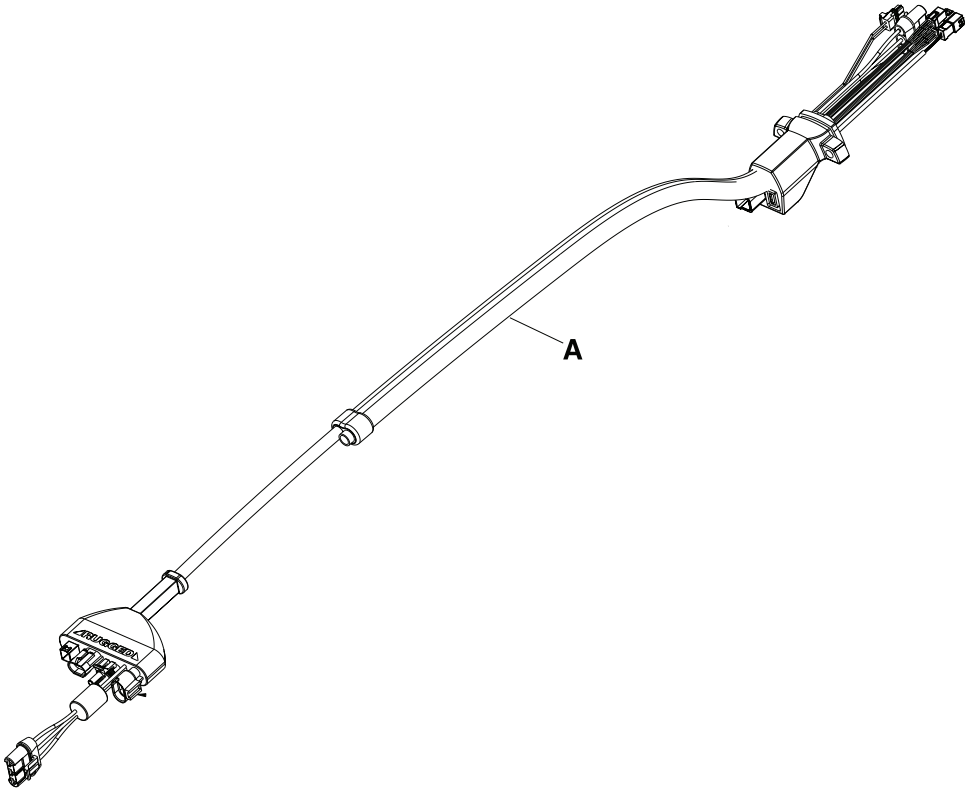


Item	Recycling/material code	Important information	Quanti-ty
A	Motor	Contains automatic transmission fluid*	1
B	External electrical cable		1
C	External electrical cable		1
D	External electrical cable		1
E	External electrical cable		1

* Mobil Mercon V Synthetic blend or equivalent

Recycling passport

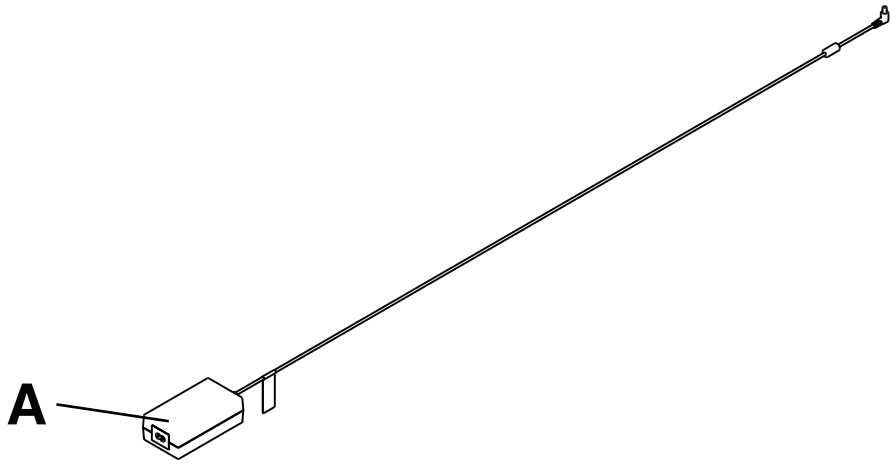
6500-002-159 (Reference only)



Item	Recycling/material code	Important information	Quanti-ty
A	External electrical cable		1

Recycling passport

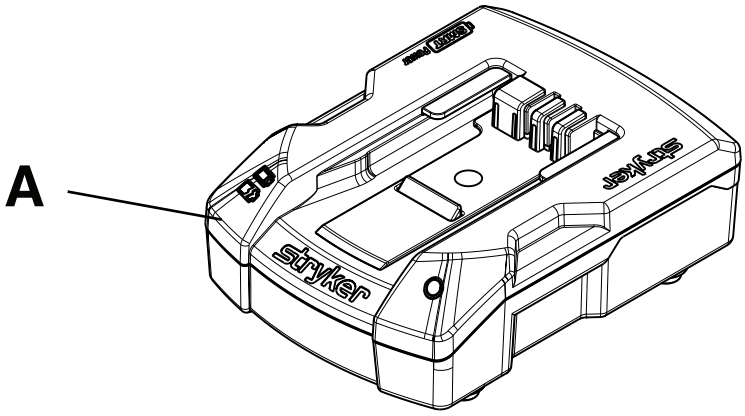
6500-201-148 (Reference only)



Item	Recycling/material code	Important information	Quantity
A	6500-201-248 (power supply)		1

Recycling passport

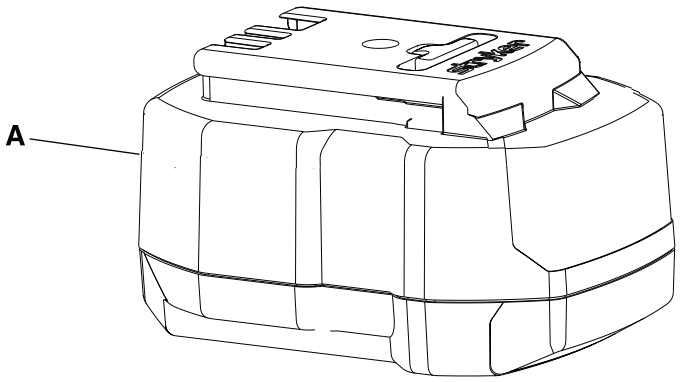
6500-201-000 (Reference only)



Item	Recycling/material code	Important information	Quantity
A	6500-201-140 (Charger PCB)		1

Recycling passport

6500-101-010 (Reference only)



Item	Recycling/material code	Important information	Quanti-ty
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.

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

Recommended separations distances between portable and mobile RF communications equipment and Power-PRO			
Power-PRO is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of **Power-PRO** can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and **Power-PRO** 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

(Continued)

Recommended separations distances between portable and mobile RF communications equipment and Power-PRO			
10	3.8	.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.			

Guidance and manufacturer's declaration - electromagnetic immunity			
Power-PRO is suitable for use in the electromagnetic environment specified below. The customer or the user of **Power-PRO** should assure that it is used in such an environment.			
Immunity test	**IEC 60601 test level**	**Compliance level**	**Electromagnetic environment-guidance**
Electrostatic discharge (ESD) IEC 61000-4-2	±6 kV contact ±8 kV air	±6 kV contact ±8 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%. Applies to: • 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	Main 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 line(s) to line(s) ±2 kV line(s) to earth	±8 kV line(s) to line(s) ±2 kV line(s) to earth	Main power quality should be that of a typical commercial or hospital environment. Applies to: • **SMRT** charger (6500-201-010)
Voltage dips, voltage variations and short interruptions on power supply input lines IEC 61000-4-11	<5% U_T (95% dip in U_T) for 0.5 cycle 40% U_T (60% dip in U_T) for 5 cycles 70% U_T (30% dip in U_T) for 25 cycles <5% U_T (>95% dip in U_T) for 5 sec.	<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 sec.	Main 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.

(Continued)

Guidance and manufacturer's declaration - electromagnetic immunity			
Power frequency (50/60Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment. Applies to: • Cot • **SMRT** charger (6500-201-010)
Note: U_T is the a.c. mains voltage before applications of the test level.			

(Continued)

Guidance and manufacturer's declaration - electromagnetic immunity			
Conducted RF IEC 61000-4-6 Radiated RF IEC 61000-4-3	3 Vrms 150 kHz to 80 MHz 20 V/m 80 MHz to 2.5 GHz	3 Vrms 20 V/m	Portable and mobile RF communications equipment should be used no closer to any part of **Power-PRO**, including cables, than the recommended separation distance calculated from the equation appropriate for the frequency of the transmitter. Recommended separation distance D=(1.2) ($\sqrt{P}$) D=(.18) ($\sqrt{P}$) 80 MHz to 800 MHz D=(0.35) ($\sqrt{P}$) 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 meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site [a] should be less than the compliance level in each frequency range.[b] Interference may occur in the vicinity of equipment marked 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.			

(Continued)

Guidance and manufacturer's declaration - electromagnetic immunity
[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 **Power-PRO** is used exceeds the applicable RF compliance level above, the **Power-PRO** system should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating **Power-PRO**.
[b] Over the frequency range 150 kHz to 80 MHz, field strengths are less than 20 V/m.

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

Warranty exclusions and other conditions:

- 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.
- There are extenuating circumstances and events that may alter the performance of the products such as an ambulance accident. In Stryker's discretion, certain circumstances may allow for evaluation of the product post ambulance accident which could allow for continued use of the product. If products recommended to be removed from service are put back into service, Stryker will consider the product as being subject to unusual stress and improperly maintained. Products which are subject to unusual stress and improper maintenance are not subject to Stryker's warranty as noted above. In addition, Stryker will not indemnify any customer for any third-party claims related to injuries caused by products that have been involved in accidents.
- This warranty is void if the label bearing the serial number of the product has been removed or defaced.
- This warranty is void if the product is not purchased from an authorized Stryker dealer.

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 on 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 matter related to sales or use of such equipment.

No employee or representative of Stryker is authorized to change this warranty in any way.

Warranty exclusion and damage limitations

The express warranty set forth herein is the only warranty applicable to the product. **Any and all other warranties, whether express or implied, including any implied warranty of merchantability or fitness for a particular purpose are expressly excluded by Stryker.** In no event shall Stryker be liable for incidental or consequential damages.

To obtain parts and service

Stryker products are supported by a nationwide network of dedicated Stryker Field Service Representatives. These representatives are factory trained, available locally, and carry a substantial spare parts inventory to minimize repair time. Simply call your local representative or call Stryker Customer Service at 1-800-327-0770.

Return authorization

Product cannot be returned without prior approval from the Stryker Customer Service Department. An authorization number will be provided which must be printed on the returned product. Stryker reserves the right to charge shipping and restocking fees on returned product. Special, modified, or discontinued products are not subject to return.

Damaged product

ICC Regulations require that claims for damaged product must be made within fifteen (15) days of receipt of the product. 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. Claims 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 product, 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 within thirty (30) days of receipt. Claims for any incomplete shipments 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. Contact your local Stryker Medical representative for additional information.

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