

## Power-PRO™ 2 Cot

### Service Manual

|     |              |
|-----|--------------|
| REF | 650700000000 |
| REF | 650700080301 |
| REF | 650700450301 |
| REF | 650705550001 |
| REF | 650705550002 |
| REF | 650705550003 |







# Table of Contents

|  |    |
|--|----|
| Warning/Caution/Note Definition .....  | 5  |
| Summary of safety precautions .....  | 5  |
| Introduction for service .....   | 6  |
| Expected service life .....  | 6  |
| Contact information .....  | 6  |
| Serial number location - Power-PRO 2 .....   | 6  |
| Serial number location - Alvarium .....  | 6  |
| Preventive maintenance .....   | 8  |
| Lubrication .....  | 8  |
| Regular inspection and adjustments .....   | 8  |
| Every month or two hours .....   | 8  |
| Every three months or six hours .....  | 9  |
| Every six months or 12 hours .....   | 9  |
| Every 12 months or 24 hours .....  | 10 |
| Maintenance record .....   | 12 |
| Training record .....  | 13 |
| Troubleshooting .....  | 14 |
| Stryker Service Tool .....   | 14 |
| Error code information .....   | 16 |
| Battery charger (BC) .....   | 16 |
| Head base control (HBC) .....  | 20 |
| Foot end interface board (FEIB) .....  | 30 |
| Charger does not charge the battery .....  | 39 |
| A fully charged battery does not provide sufficient power to operate the cot ..... | 39 |
| Service .....  | 40 |
| Protecting against electrostatic discharge (ESD) .....                             | 40 |
| Cot calibration .....  | 40 |
| 12 VDC automotive cable fuse replacement .....                                     | 41 |
| Backrest adjustment .....  | 41 |
| Fowler cylinder assembly replacement .....   | 43 |
| Head section replacement .....   | 45 |
| Manual release cable adjustment .....  | 46 |
| Battery power/comm cable assembly replacement .....                                | 48 |
| Cot retaining post replacement .....   | 49 |
| Cot retaining post screw replacement .....   | 50 |
| Hydraulic cylinder assembly replacement .....                                      | 51 |
| Siderail assembly replacement (standard) .....                                     | 54 |
| Siderail assembly replacement (XPS option) .....                                   | 54 |
| Ratchet assembly replacement (XPS option) .....                                    | 56 |
| Release handle assembly replacement (XPS option) .....                             | 57 |
| Spring handle assembly replacement (XPS option) .....                              | 58 |
| Hydrogen base control (HBC) board replacement .....                                | 58 |
| Wireless module replacement .....  | 61 |
| Near field module inductive charger (NFMIC) replacement .....                      | 62 |
| Regulatory notes .....   | 64 |
| Wheel replacement .....  | 65 |
| Caster horn replacement (non-brake base tube) .....                                | 66 |
| Caster horn and base tube replacement (brake base tube) .....                      | 67 |
| X-frame base leg guard replacement .....   | 69 |
| MTS sensor replacement .....   | 69 |
| Cot foot end interface board (FEIB) replacement .....                              | 71 |
| Battery charger board replacement .....  | 73 |
| Inner tube (X-frame) replacement - foot end .....                                  | 74 |
| Inner tube (X-frame) replacement - head end .....                                  | 76 |
| Inductive power cable assembly replacement .....                                   | 78 |

|  |     |
|--|-----|
| User interface button replacement .....                    | 78  |
| Power and comm cable replacement .....                     | 80  |
| HBC enclosure and cable replacement .....                  | 83  |
| HBC strain gauge external cable assembly replacement ..... | 87  |
| Slider roller replacement .....                            | 88  |
| Foot section replacement .....                             | 91  |
| Slider magnet assembly replacement .....                   | 92  |
| Cot wireless configuration .....                           | 94  |
| Wireless router configuration .....                        | 96  |
| Cot assembly, common components .....                      | 98  |
| Power-LOAD fastener .....                                  | 106 |
| Performance-LOAD fastener .....                            | 108 |
| Power-LOAD and Performance-LOAD fastener .....             | 110 |
| Lift assembly .....  | 112 |
| Two wheel lock option - 650709990109 .....                 | 117 |
| Four wheel lock option - 650709990110 .....                | 118 |
| Lock base assembly, right .....                            | 120 |
| Lock base assembly, left .....                             | 124 |
| Non-lock base assembly, left .....                         | 127 |
| Inner lift legs assembly .....                             | 128 |
| Base leg assembly, foot end .....                          | 130 |
| Base leg assembly, head end .....                          | 131 |
| Actuator lift assembly .....                               | 132 |
| Manual release bracket assembly .....                      | 134 |
| Outer rail assembly, left .....                            | 135 |
| Outer rail assembly, right .....                           | 137 |
| Hitch bracket assembly, foot end .....                     | 139 |
| Hitch assembly, foot end .....                             | 141 |
| Foot end interface board (FEIB) assembly .....             | 144 |
| Birdcage assembly, no NFMIC, no Wi-Fi .....                | 151 |
| Birdcage assembly, NFMIC, no Wi-Fi .....                   | 154 |
| Birdcage assembly, NFMIC, Wi-Fi .....                      | 157 |
| Birdcage assembly, no NFMIC, Wi-Fi .....                   | 161 |
| HBC enclosure assembly .....                               | 165 |
| Foot section assembly .....                                | 167 |
| Housing assembly, foot end, right .....                    | 173 |
| Latch assembly, foot end, right .....                      | 174 |
| Housing assembly, foot end, left .....                     | 175 |
| Latch assembly, foot end, left .....                       | 176 |
| Wagon handle assembly .....                                | 177 |
| Head section assembly .....                                | 178 |
| Standard siderail option - 650709990102 .....              | 181 |
| XPS siderail option - 650709990101 .....                   | 182 |
| XPS assembly, left .....                                   | 183 |
| XPS assembly, right .....                                  | 184 |
| Fowler assembly .....                                      | 185 |
| Fowler frame assembly .....                                | 188 |
| Fowler cylinder assembly .....                             | 189 |

|  |     |
|--|-----|
| Fowler handle assembly .....   | 190 |
| Gatch assembly .....   | 191 |
| Gatch support assembly .....   | 193 |
| Telescoping Gatch assembly .....   | 194 |
| Thigh assembly .....   | 195 |
| Foot assembly .....  | 196 |
| IV pole, two-stage, right - 650700350101 .....   | 197 |
| IV pole, three-stage, right - 650700350102 .....   | 198 |
| IV pole, two-stage, left - 650700350105 .....  | 199 |
| IV pole, three-stage, left - 650700350106 .....  | 200 |
| IV pole, two-stage, dual .....   | 201 |
| IV pole, three-stage, dual .....   | 202 |
| HAVASU™ IV pole assembly, two-stage, left .....  | 203 |
| HAVASU IV pole assembly, two-stage, right .....  | 204 |
| HAVASU IV pole assembly, three-stage, left .....   | 205 |
| HAVASU IV pole assembly, three-stage, right .....  | 206 |
| IV pole assembly, two-stage .....  | 207 |
| IV pole assembly, three-stage .....  | 208 |
| Battery assembly - 650700080301 .....  | 209 |
| X-restraint package - 6500-001-430 .....   | 210 |
| X-restraint package, cobalt blue - 6500-001-431 .....  | 211 |
| Belt extension option - 6082-160-050 .....   | 212 |
| Storage net, base - 6500-160-000 .....   | 213 |
| Storage flat, head end - 6500-128-000 .....  | 214 |
| Storage pouch, backrest, dual-sided - 650700450134 .....   | 215 |
| Storage pouch, backrest, single-sided - 650700450142 .....   | 216 |
| Oxygen bottle holder, Fowler - 650700450153 .....  | 217 |
| Oxygen bottle holder, head section - 650700450154 .....  | 218 |
| Mattress, knee Gatch bolster - 6506-034-000 .....  | 219 |
| Mattress, knee Gatch bolster, grey - 6506-033-000 .....  | 220 |
| Mattress, knee Gatch bolster, XPS - 6500-003-130 .....   | 221 |
| Mattress, knee Gatch bolster, grey, XPS - 6506-041-000 .....   | 222 |
| In-fastener shut-off assembly option - 6500-001-027 .....  | 223 |
| Safety hook, short - 6060-036-017/Safety hook, long - 6060-036-018/Safety hook, J - 6092-036-018 ..... | 224 |
| MTS - Power-PRO 2 assembly, high config - 650705550001 .....   | 225 |
| MTS - Power-PRO 2 assembly, mid config - 650705550002 .....  | 226 |
| MTS - Power-PRO 2 assembly, high config, no Wi-Fi - 650705550003 .....                                 | 227 |
| EMC information .....  | 228 |
| Recycling passport .....   | 233 |
| 650700080301 .....   | 233 |
| 650700450301 .....   | 234 |
| 650700450102 .....   | 235 |
| 650700450103 .....   | 236 |
| 650700450104 .....   | 237 |
| 650700450105 .....   | 238 |
| 650700450106 .....   | 239 |
| 650700450107 .....   | 240 |

|                   |     |
|-------------------|-----|
| 650700450108..... | 241 |
| 650700450109..... | 242 |
| 650700450210..... | 243 |
| 650700450211..... | 244 |
| 650700450212..... | 245 |
| 650700450101..... | 246 |
| 650700080806..... | 247 |
| 650700080009..... | 248 |
| 650700080009..... | 249 |
| 650700080202..... | 250 |
| 650700080203..... | 251 |
| 650700080860..... | 252 |
| 650700080862..... | 253 |
| 650700080863..... | 254 |
| 650700080864..... | 255 |
| 650700080865..... | 256 |
| 650700080866..... | 257 |
| 650700080867..... | 258 |
| 650700080868..... | 259 |
| 650700080869..... | 260 |
| 650700080870..... | 261 |
| 650700080871..... | 262 |
| 650700080872..... | 263 |
| 650700080873..... | 264 |
| 650700080875..... | 265 |
| 650700080876..... | 266 |
| 650700080877..... | 267 |
| 650700080878..... | 268 |
| 650700080879..... | 269 |
| 650700080880..... | 270 |
| 650700080890..... | 271 |
| 650700080891..... | 272 |
| 650700080892..... | 273 |
| 650700080893..... | 274 |

# 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

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

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### **WARNING**

- Do not use bare hands to check for hydraulic leaks.
  - Do not allow the sensor lead to bend when you remove the lead from the box or install the lead. The MTS sensor arrives in a custom box to protect the sensor lead from bending.
  - Portable RF communications equipment, including peripherals such as antenna cables and external antennas, should be used no closer than 12 inches (30 cm) to any part of **Power-PRO 2**, including cables specified by the manufacturer.
  - Avoid stacking or placing other equipment adjacent to **Power-PRO 2** to prevent improper operation of the products. If such use is necessary, carefully observe the cot and the other equipment to verify proper operation.
  - The use of accessories, transducers, and cables, other than those specified or provided by the manufacturer, could result in increased electromagnetic emissions or decreased electromagnetic immunity and result in improper operation.
- 

### **CAUTION**

- Always use authorized parts to avoid the risk of product damage.
  - Do not lubricate the bearings in the X-frame as it will degrade the performance of the cot and may void its warranty.
  - Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
  - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.
  - Always use care when you lift and support the cot. The cot may move while you tip the cot onto the head section.
  - Always use assistance from another person when you flip the cot onto the backrest.
  - Changes or modifications to the **Alvarium** Battery Management System, not expressly approved by Stryker, could void the user's authority to operate the equipment.
-

## Introduction for service

This manual assists you with the service of your Stryker product. Read this manual to service this product. This manual does not address the operation of this product. See the Operations/Maintenance Manual for operating and use instructions. To view your Operations/Maintenance Manual online, see <https://techweb.stryker.com/>.

## Expected service life

**Power-PRO 2** has a 7 year expected service life under normal use conditions and with appropriate periodic maintenance.

**Alvarium** charger has a 7 year expected service life under normal use conditions.

**Alvarium** battery has a 2 year expected service life under normal use conditions.

## Contact information

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

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

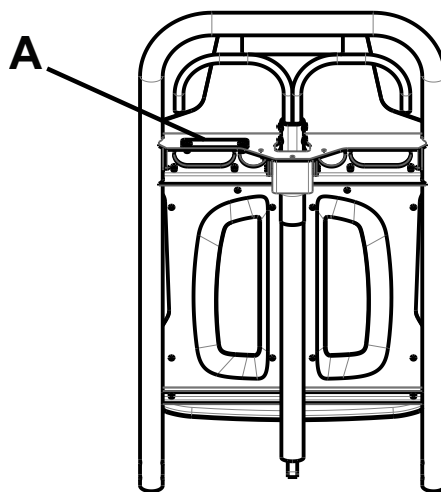
**Note** - The user and/or the patient should report any serious product-related incident to both the manufacturer and the Competent authority of the European Member State where the user and/or patient is established.

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 2

See below for the cot (A) serial number location.



## Serial number location - Alvarium

See below for the battery (B) and charger (C) serial number locations (Figure 1 and Figure 2).

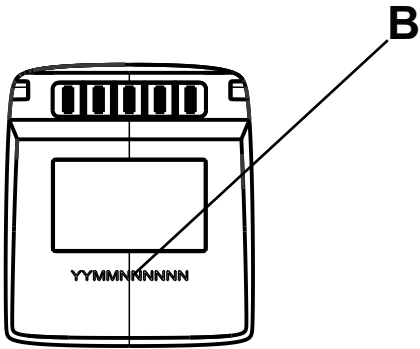


Figure 1 – Alvarium battery serial number location

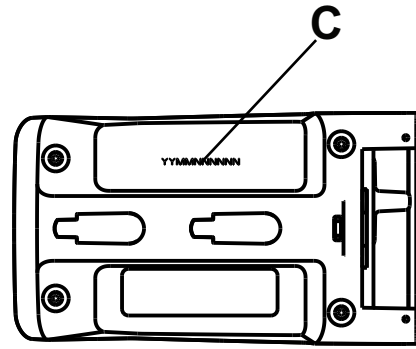


Figure 2 – Alvarium charger serial number location

# Preventive maintenance

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**WARNING** - Do not use bare hands to check for hydraulic leaks.

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**CAUTION** - Always use authorized parts to avoid the risk of product damage.

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Establish and follow a maintenance schedule and keep records of the maintenance activity. Remove the 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

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**CAUTION** - Do not lubricate the bearings in the X-frame as it will degrade the performance of the cot and may void its warranty.

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

## 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 of motor run time, whichever comes first.

| Item                          | Inspect  |
|-------------------------------|--|
| Settings                      | In-fastener shutoff configuration  |
| Cylinder                      | Extend cylinder rod and wipe with a soft cloth and household cleaner   |
| Cables and wires              | No hanging wires from routings or connections  |
|                               | Hand tighten foot end electronics cable  |
| Manual back-up release handle | Manual back-up release handle functions  |
| Litter                        | Frame and litter   |
| Base                          | Frame and base   |
| Wheels                        | All wheels are secure, roll, and swivel  |
| Head section                  | Pull toward the head section to check that the safety bar swings and rotates and pulls back to the home position |
| Foot section                  | Extend and retract   |
|                               | Functions and latches  |
| Restraint                     | Function with no excessive wear (such as a bent or broken receiver or latch plate or torn or frayed webbing)     |



| Item    | Inspect  |
|---------|--|
| Battery | Housing and terminal area for cracks or damage before first and every use                        |
| Charger | 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 of motor run time, whichever comes first.

| Item                          | Inspect  |
|-------------------------------|--|
| 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 back-up release handle | Base extends and retracts when you pull the manual back-up release handle    |
| 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   |
| Foot section                  | Transport handle extends and locks in 90 degree upright position             |
|                               | All fasteners are secure   |
|                               | Foot section extends and locks in the retracted, mid, and extended positions |
|                               | Stow and lock transport handle   |
|                               | Foot end guide lights operate  |
| Accessories and parts         | All accessories and parts operate  |

### Every six months or 12 hours

Inspect these items every six months or 12 hours of motor run time, whichever comes first.

| Item                          | Inspect  |
|-------------------------------|--|
| Electronic controls/functions | Extend cot to raised position, measure and check load height |

| Item         | Inspect   |
|--------------|---|
|              | Jog function operates   |
|              | High speed retract and extend operates  |
|              | Bumper detection operates   |
|              | Press the release or transport height button and confirm correct height               |
|              | Measure load height and confirm correct height  |
| Switches     | No damage or wear to the switches   |
|              | All switches operate  |
| Litter       | No bent, broken, or damaged components  |
|              | No damage or tears on cot grips   |
|              | Siderails operate and latch   |
|              | Footrest operates   |
| Mattress     | No cracks or tears  |
| 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  |
|              | <b>Steer-Lock</b> and wheel locks operate   |
|              | Check brake cable (between <b>Steer-Lock</b> and wheel lock) for wear, bends, creases |
| Head section | No bent, broken, or damaged components  |
|              | Grip bar has no excessive damage or tears   |
|              | Load wheels are secure and roll   |
| Foot section | No bent, broken, or damaged components  |
|              | Grip bar has no excessive damage or tears   |

### Every 12 months or 24 hours

Inspect these items every 12 months or 24 hours of motor run time, whichever comes first.

| Item                          | Inspect  |
|-------------------------------|--|
| Settings                      | Cot and fastener fit and function              |
|                               | Safety bar connects to the vehicle safety hook |
| Manual back-up release handle | Returns to the stowed position                 |
| Litter                        | All welds are intact, not cracked, or broken   |
|                               | Warning labels present and legible             |

| Item   | Inspect   |
|--|---|
| Base   | All welds are intact, not cracked, or broken  |
| Retractable head section oxygen bottle holder option | Straps and clips for wear   |
| Foot section   | Foot end hitch latch hooks not worn   |
| Cables and wires                                     | Foot end interface board (FEIB) cable connector is tight                                |
| Transport handle                                     | Apply <b>Tri-Flow™</b> lubricant (6082-199-012) to the transport handle internal joints |

# Maintenance record

| Date | Maintenance operation performed | By | Hours |
|------|---------------------------------|----|-------|
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# Training record

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

## Stryker Service Tool

The Stryker Service Tool allows you to retrieve status and diagnostic data from the cot.

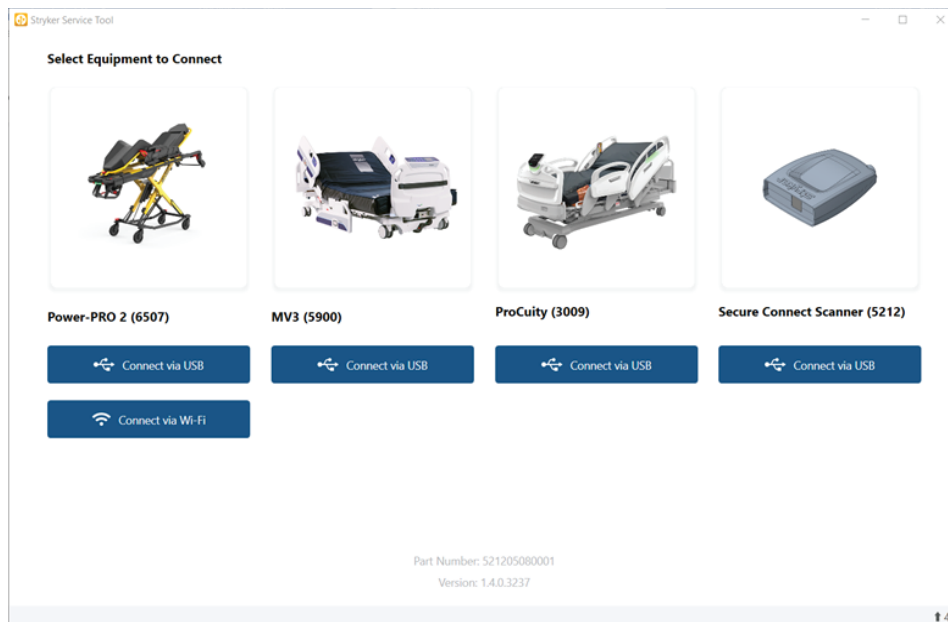
### Tools required:

- Stryker Service Tool (521205080001)
- Microsoft Windows PC
- USB A to USB micro-B cable
- T10 Torx driver

### Procedure:

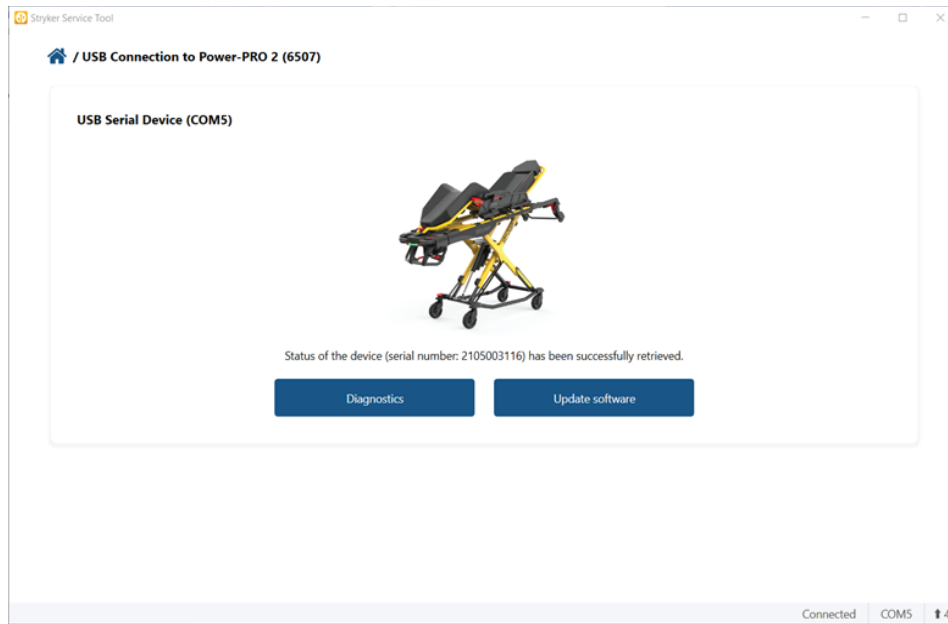
1. Using a T10 Torx driver, loosen the T10 Torx screw that secures the USB port cover. Allow the USB port cover to swing down enough so you can access the USB port.
2. Plug the USB cable into the cot and the computer.
3. Open the Stryker Service Tool (521205080001).
4. Select **Connect via USB**, located under **Power-PRO 2 (6507)** (Figure 3).

**Note** - The Stryker Service Tool will show a found device. The product will take a few seconds to make the full connection.



**Figure 3 – USB Connection to Power-PRO 2 (6507)**

5. After the Diagnostics button highlights blue, select **Diagnostics** to access Equipment Details (Figure 4).



**Figure 4 – Diagnostics**

6. Use the tabs in the Equipment Details main screen to access different data from the cot (Figure 5).

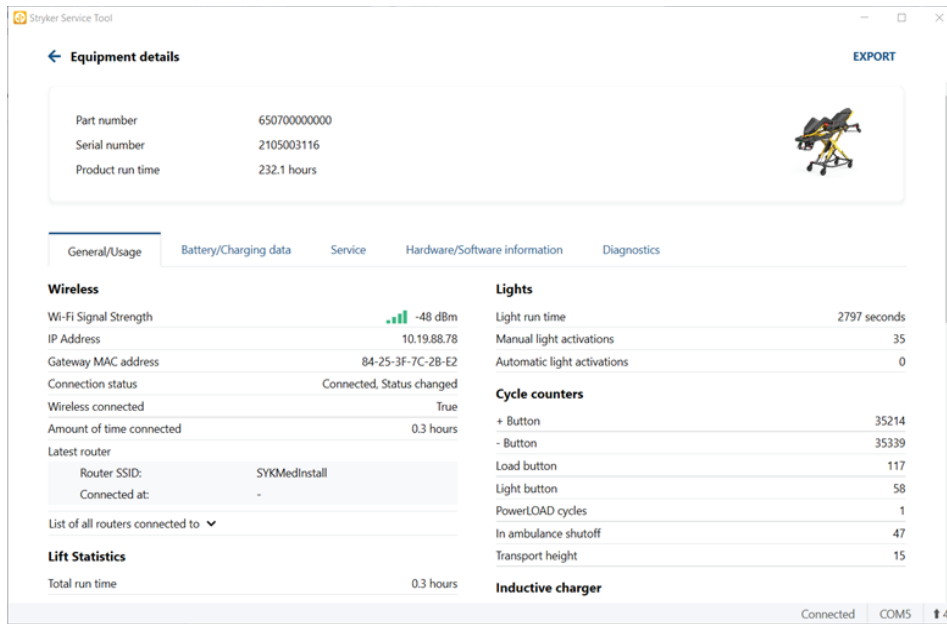


Figure 5 – Equipment Details main screen

## Error code information

### Battery charger (BC)

| Error code ID   | Fault description and possible cause   | Troubleshooting   |
|---|--|---|
| 6507-825-01-1<br>MicroP On-chip data memory levels exhausted      | The data storage leveling algorithm has run out of space. <ul style="list-style-type: none"> <li>Product is at the end of life</li> <li>Memory is worn out</li> </ul>                      | <ol style="list-style-type: none"> <li>No actions needed - the cot is still operational but will no longer collect service or operational data.</li> <li>Replace the battery charger board or leave as is.</li> </ol> |
| 6507-825-01-2<br>MicroP On-chip data memory file system corrupted | The data memory is corrupted and cannot be recovered. <ul style="list-style-type: none"> <li>Flash memory defect</li> </ul>  | <ol style="list-style-type: none"> <li>Power cycle the cot.</li> <li>Recalibrate the cot.</li> <li>Replace the battery charger board.</li> </ol>  |
| 6507-825-02-1<br>Logic power DC over voltage                      | The primary DC power supply is operating above the permissible range. <ul style="list-style-type: none"> <li>Short from battery bus to 12V_ SYSTEM bus</li> <li>FEIB PS failure</li> </ul> | Replace the battery charger board.  |



| Error code ID   | Fault description and possible cause   | Troubleshooting  |
|---|--|--|
| <p>6507-825-02-2</p> <p>Logic power DC under voltage</p>            | <p>The primary DC power supply is operating below the permissible range.</p> <ul style="list-style-type: none"> <li>• Battery charger board fault</li> <li>• HBC board fault</li> <li>• External sensor fault (pressure transducer of motor hall fault)</li> </ul> | <ol style="list-style-type: none"> <li>1. Verify that the logic power voltage is between 4-14VDC.</li> <li>2. Cycle power and confirm that the error is still present. <ol style="list-style-type: none"> <li>a. If the error is still present and voltage is correct, replace the battery charger board.</li> <li>b. If the voltage is not correct, unplug battery charger board power cable.</li> </ol> </li> <li>3. Verify that the +12V system voltage at FEIB is above 9V (FEIB board J10.8 to J10.1). <ol style="list-style-type: none"> <li>a. If the voltage recovers, replace the battery charger board.</li> <li>b. If the voltage is still low, verify the corresponding FEIB fault.</li> </ol> </li> <li>4. Unplug the system bus cable from FEIB (J10).</li> <li>5. Cycle power and confirm that the fault goes away and the voltage is above 9V. <ol style="list-style-type: none"> <li>a. If the fault goes away and voltage is above 9V, follow HBC +12V_system bus under voltage diagnosis steps.</li> <li>b. If the fault is still present and the voltage is still below 9V, replace the FEIB.</li> </ol> </li> </ol> |
| <p>6507-825-04-1</p> <p>Battery over temperature - not charging</p> | <p>The attached smart battery has set the over temperature flag in the BatteryStatus register while discharging.</p> <ul style="list-style-type: none"> <li>• Battery failure</li> <li>• Bad thermistor</li> </ul>   | <p>Replace the battery.</p>  |
| <p>6507-825-04-2</p> <p>Battery over temperature - charging</p>     | <p>The attached smart battery has set the over temperature flag in the BatteryStatus register while charging.</p> <ul style="list-style-type: none"> <li>• Battery failure</li> <li>• Bad thermistor</li> </ul>  | <p>Replace the battery.</p>  |
| <p>6507-825-04-3</p> <p>Charger over temperature</p>                | <p>The temperature measured on the charging circuit has risen above a threshold.</p> <ul style="list-style-type: none"> <li>• Charger over current</li> <li>• Damaged sensor/board</li> </ul>  | <p>Replace the battery charger board.</p>  |

| Error code ID                                  | Fault description and possible cause  | Troubleshooting   |
|--|---|---|
| 6507-825-04-4<br>Charger over current - major  | The measured charge current has risen above a major threshold. <ul style="list-style-type: none"> <li>• Damaged battery</li> <li>• Damaged battery charger board</li> <li>• Short to ground</li> <li>• Damaged sensor</li> </ul>  | 1. Replace the battery. <ul style="list-style-type: none"> <li>a. If the fault goes away, replace the battery.</li> <li>b. If the fault does not go away, verify that the short to ground is not present.</li> </ul> 2. Measure J1.1 to J1.2. <ul style="list-style-type: none"> <li>a. If you measure a fault, determine the fault location by unplugging wires until the fault goes away.</li> </ul> <b>Note</b> - The fault may be on the board. <ul style="list-style-type: none"> <li>3. Replace the battery charger board.</li> </ul>   |
| 6507-825-04-5<br>Charger open circuit          | Charging is enabled but no charge current is measured. <ul style="list-style-type: none"> <li>• Damaged battery charger board</li> <li>• Short to ground</li> <li>• Damaged sensor</li> </ul>   | 1. Replace the battery. <ul style="list-style-type: none"> <li>a. If the fault goes away, replace the battery.</li> <li>b. If the fault does not go away, verify that there is no open wire on the battery harness or charger harness.</li> <li>c. If you measure a fault, replace the appropriate harness.</li> </ul> 2. Replace the battery charger board.  |
| 6507-825-04-6<br>Charger over voltage          | The measured charge voltage has risen above a threshold. <ul style="list-style-type: none"> <li>• Damaged board</li> </ul>  | 1. Replace the battery. <ul style="list-style-type: none"> <li>a. If the fault goes away, replace the battery.</li> </ul> 2. Replace the battery charger board.   |
| 6507-825-08-1<br>Battery voltage sensing error | The battery voltage does not correlate to the other assemblies on the board measuring the battery voltage. PCB A/D input disagrees with the voltage reported by the battery. <ul style="list-style-type: none"> <li>• Damaged wiring</li> <li>• Loose cable/wire connection</li> <li>• Battery failure</li> <li>• Sensor error</li> </ul> | 1. Measure the battery voltage at the battery.<br>2. Measure the voltage at the terminal block. <ul style="list-style-type: none"> <li>a. If the battery voltage does not match the Stryker Service Tool, verify continuity of wires and connections from the battery to the battery charger board.</li> </ul> 3. Measure the voltage on the battery charger board from J1.1 to J1.2. All voltages should be within 0.25V of each other.<br>4. Replace the harnesses as appropriate. <ul style="list-style-type: none"> <li>a. If the battery voltage is not the same as the other two, replace the battery.</li> <li>b. If the battery charger board voltage is not the same as the other two, replace the battery charger board.</li> </ul> |
| 6507-825-08-2<br>MCP4725 output voltage error  | MCP4725 digital-to-analog converter accepted a new voltage command but the measured feedback from its output does not match the command. <ul style="list-style-type: none"> <li>• Damaged board</li> </ul>  | Replace the battery charger board.  |

| Error code ID                                    | Fault description and possible cause  | Troubleshooting  |
|--|---|--|
| 6507-825-08-3<br>Thermistor reading out of range | The thermistor reading is beyond typical temperature. <ul style="list-style-type: none"> <li>Defective thermistor or circuit</li> </ul>   | 1. Allow the control to cool (wait approximately 30 minutes). <ol style="list-style-type: none"> <li>If the fault is no longer present, the fault was likely due to continued use under heavy load.</li> <li>If the fault is still present, replace battery charger board.</li> </ol>  |
| 6507-825-13-1<br>CAN bus error                   | The CAN controller is going bus-off and will not recover. <ul style="list-style-type: none"> <li>Intermittent connection</li> </ul>   | 1. Cycle power. <ol style="list-style-type: none"> <li>Check that the CAN bus (BC J4.2 and J4.3) is not shorted to the ground (J4.1).</li> <li>Disconnect the boards/cables until fault goes away.</li> <li>Replace the boards/cables as needed. Wiggle the wires in case of an intermittent open wire. <ol style="list-style-type: none"> <li>If the other nodes are offline, perform a similar cable check on the other CAN cables (wireless module and HBC).</li> </ol> </li> </ol> |
| 6507-825-13-2<br>Master node is offline          | BC is not getting a master node CAN heartbeat message. <ul style="list-style-type: none"> <li>Intermittent connection</li> <li>Error could be logged during a SW update and not show up until after update completed</li> </ul> | 1. Cycle power. <ol style="list-style-type: none"> <li>Check that the CAN bus (BC J4.2 and J4.3) is not shorted to the ground (J4.1).</li> <li>Disconnect the boards/cables until fault goes away.</li> <li>Replace the boards/cables as needed. Wiggle the wires in case of an intermittent open wire.</li> </ol>   |
| 6507-825-13-3<br>MCP4725 I2C error               | I2C communication error detected with MCP4725 digital to analog converter IC. <ul style="list-style-type: none"> <li>Damaged board</li> </ul>   | Replace the battery charger board.   |
| 6507-825-13-4<br>Smart battery SMBus error       | SMBus communication error detected with attached smart battery. <ul style="list-style-type: none"> <li>Defective battery</li> <li>Open wire on harness/board</li> </ul>   | 1. Replace the battery. <ol style="list-style-type: none"> <li>If the fault does not go away, verify continuity of the SMB harness (J3.1, J3.2, J3.3) to battery connections.</li> <li>If you do not find the fault, replace the battery charger board.</li> </ol>   |
| 6507-825-14-1<br>Battery end of life             | Smart battery cycle count has risen above the rated threshold for the cells. <ul style="list-style-type: none"> <li>Battery at end of life</li> </ul>   | Replace the battery.   |

## Head base control (HBC)

| Error code ID   | Fault description and possible cause   | Troubleshooting  |
|---|--|--|
| 6507-805-01-1<br>MicroP On-chip data memory levels exhausted      | The data storage leveling algorithm has run out of space. <ul style="list-style-type: none"> <li>Product is at end of life</li> <li>Memory is worn out</li> </ul>  | <ol style="list-style-type: none"> <li>No actions needed - the cot is still operational but will no longer collect service or operational data.</li> <li>Replace the HBC board.</li> </ol>   |
| 6507-805-01-2<br>MicroP On-chip data memory file system corrupted | The data memory is corrupted and cannot be recovered. <ul style="list-style-type: none"> <li>Flash memory defect</li> </ul>  | <ol style="list-style-type: none"> <li>Cycle power.</li> <li>Recalibrate the cot.</li> <li>Replace the HBC board.</li> </ol>   |
| 6507-805-02-1<br>Battery DC over voltage                          | The primary DC power supply is operating above the permissible range. <ul style="list-style-type: none"> <li>Battery is overcharged</li> <li>Inductive charging voltage is too high</li> <li>Back EMF spike</li> </ul> | <ol style="list-style-type: none"> <li>Check the battery voltage.</li> <li>Replace the battery if the voltage is over 28V. <ol style="list-style-type: none"> <li>If the battery voltage is OK, and if inductive charging works, check the inductive charge output voltage.</li> <li>If the output voltage is over 28V, verify the voltages on <b>Power-LOAD</b>.</li> </ol> </li> <li>The foot end hitch is not damaged. Make sure that they are operating within specifications.</li> <li>If not inductively charging or the inductive charge voltages look good, verify that the motor phase cables and motor hall cables do not have an intermittent connection. Wiggle the wires while doing a continuity check on each wire measured from each end.</li> </ol>                                   |
| 6507-805-02-2<br>Battery DC under voltage                         | The primary DC power supply is operating above the permissible range. <ul style="list-style-type: none"> <li>Low battery</li> <li>Battery cell damaged</li> <li>Inductive charging voltage too low</li> </ul>          | <ol style="list-style-type: none"> <li>Check the battery voltage.</li> <li>Replace the battery if the voltage is under 18V. <p><b>Note</b> - You may need to run the cot under load.</p> </li> <li>Run the cot under heavy load.</li> <li>Verify that the battery is not cutting out by monitoring the battery for an error code. <ol style="list-style-type: none"> <li>See the over current fault for more checks and possible diagnosis.</li> <li>If the battery voltage is OK, and if inductive charging works, check the inductive charge output voltage.</li> <li>If the output voltage is under 18V, verify the voltages on <b>Power-LOAD</b>. Make sure that the voltages are operating within specifications.</li> </ol> </li> <li>Verify that the battery cables are not shorted.</li> </ol> |

| Error code ID                                     | Fault description and possible cause   | Troubleshooting  |
|---|--|--|
| <p>6507-805-02-4</p> <p>+12V SW under voltage</p> | <p>Switched +12V bus is operating below the permissible range.</p> <ul style="list-style-type: none"> <li>• FEIB circuit pulling CAN bus low</li> <li>• Pressure transducer short</li> <li>• Motor hall cable short (including cable coming from motor)</li> <li>• Motor hall sensor short</li> <li>• HBC blown fuse or damaged FET</li> </ul> | <ol style="list-style-type: none"> <li>1. Verify that the +12V SW voltage is correct (J2.1 to J2.2).<br/><b>Note</b> - The voltage should be between 9-14VDC.</li> <li>2. Cycle power and confirm that the error is still present. <ol style="list-style-type: none"> <li>a. If the error is still present and the voltage is correct, replace the HBC board.</li> </ol> </li> <li>3. Unplug the system bus cable from the HBC board.</li> <li>4. Verify that the +12V system voltage at the FEIB is correct (FEIB board J10.8 to J10.1). <ol style="list-style-type: none"> <li>a. If the voltage is still low, check the FEIB +12V system bus faults. <ol style="list-style-type: none"> <li>b. If the voltage is above 9V, reattach the system bus cable to the HBC board.</li> </ol> </li> </ol> </li> <li>5. Unplug the pressure transducer cable. <ol style="list-style-type: none"> <li>a. Cycle power and confirm that the fault goes away and the voltage is above 9V. If the fault goes away and voltage is above 9V, replace the pressure transducer. <ol style="list-style-type: none"> <li>i. If the fault is still present and the voltage is still below 9V, unplug the motor hall cable. If the fault goes away and the voltage is above 9V, replace the hydraulic assembly.</li> <li>b. If the fault does not go away, check for shorts between the motor hall cable wires. <ol style="list-style-type: none"> <li>i. If the cable has a short, replace the cable.</li> </ol> </li> </ol> </li> </ol> </li> <li>6. If the fault is still present and the voltage is still below 9V, replace the HBC board. <ol style="list-style-type: none"> <li>a. Confirm that the fuse F6 on HBC board is not blown, if possible. If blown, verify that the fault is not on the board. Confirm J6.1 and J2.3 are not shorted to ground (J2.1 or TP1) on the board. <ol style="list-style-type: none"> <li>i. If shorted, replace the HBC board.</li> <li>ii. If not shorted, there is a short elsewhere in the system.</li> </ol> </li> </ol> </li> <li>7. Double check the system. With no power to the unit, reattach all wires and the original board. <ol style="list-style-type: none"> <li>a. Confirm that there are no shorts on the motor hall, pressure transducer, or HBC board by checking J6.1 or J2.3 to all other wires on all other connectors.</li> </ol> </li> </ol> |

| Error code ID  | Fault description and possible cause   | Troubleshooting  |
|--|--|--|
| 6507-805-02-5<br>+3.3V switched power supply over voltage  | <p>3.3V bus is operating above the permissible range.</p> <ul style="list-style-type: none"> <li>• 1. 3.3V bus shorted to +12V or battery bus</li> <li>• Most likely cause is exposed wires from two different cables touching causing short</li> <li>• Other possibility includes short on board</li> </ul> | <p>1. Verify that all cables from the HBC board are intact with no abrasions or similar wear in which the bare wires are exposed.</p> <p>a. If you find damaged cables, replace all damaged cables and confirm that the error goes away.</p> <p>2. Replace the HBC board.</p>  |
| 6507-805-02-6<br>Bulk V bus over voltage                   | <p>Bulk V Bus is operating above the permissible range.</p> <ul style="list-style-type: none"> <li>• Switched_Batt+ bus on when it should not be</li> <li>• Battery overcharged</li> <li>• Inductive charging voltage too high</li> <li>• Back EMF spike</li> </ul>  | <p>1. Run DC (battery) over voltage fault checks.</p> <p>2. If DC battery over voltage checks are good, replace the HBC board.</p>   |
| 6507-805-02-8<br>Battery over current                      | <p>Excessive battery current to the motor and solenoid.</p> <ul style="list-style-type: none"> <li>• Motor stall</li> <li>• Motor windings shorted</li> <li>• Bulk cap charge circuit not working</li> </ul>   | <p>1. Verify that the motor load current is within limits (unweighted cot - should be less than 20A).</p> <p>a. If over 20A, replace the hydraulic assembly.</p> <p>b. If less than 20A but the motor stops right away, replace the HBC board.</p> <p><b>Note</b> - Make sure that there are no obstructions in the slider block or X-frame area.</p>  |
| 6507-805-02-9<br>+3.3V switched power supply under voltage | <p>3.3V bus is operating below the permissible range.</p> <ul style="list-style-type: none"> <li>• Strain gauge/strain gauge cable failure - short to ground</li> <li>• Regulator damaged</li> </ul>   | <p>1. Unplug the strain gauge cable at the enclosure.</p> <p>a. If the fault goes away, replace the strain gauge (strain gauge fault may appear).</p> <p>2. Confirm low voltage on the 3.3V line (press the light button to make sure that the circuit is ON before measuring - 20 seconds before the circuit will turn off again).</p> <p>a. If the voltage level is above 2.5V, then it is a false detection.</p> <p>3. If the fault is still present, unplug the strain gauge cable at board.</p> <p>a. If the fault goes away, replace the interior strain gauge cable (strain gauge fault may appear).</p> <p>4. Replace the HBC board.</p> |

| Error code ID                              | Fault description and possible cause  | Troubleshooting  |
|--|---|--|
| 6507-805-02-10<br>Bulk V bus under voltage | Bulk V Bus is operating below the permissible range. <ul style="list-style-type: none"> <li>• Bulk charge circuit not working (HBC board)</li> <li>• Short to ground (solenoid or HBC)</li> <li>• Gating FET did not turn ON (HBC board)</li> </ul> | 1. Verify that the battery voltage is within acceptable limits and there is no battery error. <ol style="list-style-type: none"> <li>a. If battery voltage is below 18V or battery under voltage error is shown, perform battery under voltage checks as listed above.</li> <li>b. If battery voltage is acceptable, replace the HBC board.</li> </ol>   |
| 6507-805-02-11<br>Battery under current    | Below normal current to the motor and solenoid. <ul style="list-style-type: none"> <li>• Back EMF</li> </ul>  | 1. Look for obstructions in the X-frame or slider block.<br>2. Verify that the motor hall cables or motor cables do not have intermittent connection.<br>3. Replace the HBC board (assumes that the on board current measurement circuit is bad).  |
| 6507-805-02-12<br>+12V_SYSTEM over voltage | +12V system bus is operating above the permissible range. <ul style="list-style-type: none"> <li>• Short from battery bus to 12V_SYSTEM bus</li> <li>• FEIB PS failure</li> </ul>   | 1. Verify that all cables from the HBC board are intact with no abrasions or similar wear in which the bare wires are exposed. <ol style="list-style-type: none"> <li>a. If you find damaged cables, replace all damaged cables and confirm that the error goes away.</li> </ol> 2. With power removed, perform a continuity check from the HBC cable J12.8 or FEIB board J10.8 to 24V bus terminal block or HBC J11.1. <ol style="list-style-type: none"> <li>a. If you find a continuity, unplug the cables to every component until the fault goes away.</li> </ol> <p><b>Note</b> - Start with down stream components first.</p> <ol style="list-style-type: none"> <li>b. Replace the component or cable until the fault goes away.</li> </ol> 3. If the continuity check shows no short circuit path, measure 12V output from FEIB (J10.8). <ol style="list-style-type: none"> <li>a. If the continuity check is above 14V, replace the FEIB.</li> </ol> |

| Error code ID                               | Fault description and possible cause  | Troubleshooting   |
|---|---|---|
| 6507-805-02-13<br>+12V_SYSTEM under voltage | +12V system bus is operating below the permissible range. <ul style="list-style-type: none"> <li>• High load on 12V bus (+12V_System or +12V_SW)</li> <li>• Short to GND on 12V bus (+12V_System or +12V_SW)</li> </ul> | 1. Verify that all cables from the HBC board are intact with no abrasions or similar wear in which the bare wires are exposed. <ol style="list-style-type: none"> <li>a. If you find damaged cables, replace all damaged cables and confirm that the error goes away.</li> </ol> 2. Verify that the +12V_System voltage is between 9-14VDC (J12.1 to J12.8).           3. Cycle power and confirm error is still present. <ol style="list-style-type: none"> <li>a. If the error is still present and the voltage is correct, disconnect the system bus cable.</li> <li>b. Measure the 12V output from FEIB (J10.8).</li> <li>c. If the voltage is below 7V, replace the FEIB.</li> </ol> 4. If the voltage goes to the correct level, perform diagnostics from the +12V_SW Undervoltage Section. |
| 6507-805-13-1<br>Bus-off condition          | CAN controller is going bus-off and will not recover. <ul style="list-style-type: none"> <li>• Intermittent connection</li> </ul>   | 1. Cycle power.           2. Check that the CAN bus (HBC J12.2 and J12.3) is not shorted to ground (HBC J12.1). <ol style="list-style-type: none"> <li>a. Disconnect the boards/cables until fault goes away.</li> <li>b. Replace boards/cables as needed.</li> </ol> <b>Note</b> - Wiggle the wires in case of an intermittent open wire.  |
| 6507-805-13-2<br>Master node is offline     | HBC is not getting any CAN message from master node. <ul style="list-style-type: none"> <li>• Intermittent connection</li> </ul>  | 1. Cycle power.           2. Check that the CAN bus (HBC J12.2 and J12.3) is not shorted to ground (HBC J12.1). <ol style="list-style-type: none"> <li>a. Disconnect the boards/cables until the fault goes away.</li> <li>b. Replace the boards/cables as needed.</li> </ol> <b>Note</b> - Wiggle the wires in case of an intermittent open wire.  |
| 6507-805-13-3<br>DRV8305 com failure        | Communication with DRV8305 failed. <ul style="list-style-type: none"> <li>• Defective HBC motor drive circuitry</li> </ul>  | 1. If the motor/cot is still working, the fault is most likely a false error and can be ignored.           2. If the motor does not work, replace the HBC board.  |



| Error code ID                    | Fault description and possible cause   | Troubleshooting   |
|----------------------------------|--|---|
| 6507-805-13-4<br>NFMIC invalid   | Communication with NFMIC device invalid. <ul style="list-style-type: none"> <li>• EMI or other electronic device blocking signal</li> <li>• Improper cot configuration</li> <li>• NFMIC board or cable damaged</li> <li>• HBC board damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Ignore if no NFMIC device.</li> <li>2. Verify that other electronic devices (iPad or similar) are not near the NFMIC control on the cot or on <b>Power-LOAD</b>.</li> <li>3. Determine if issue is at the cot or <b>Power-LOAD</b>.               <ol style="list-style-type: none"> <li>a. Use other cots/<b>Power-LOAD</b> to determine where issues are located.</li> </ol> </li> <li>4. Visually verify that the NFMIC cable is not damaged and is physically connected to the HBC board.</li> <li>5. Verify 9V signal from HBC board J10.2 to J10.1 (ground).               <ol style="list-style-type: none"> <li>a. If there is voltage, replace the NFMIC board.</li> <li>b. If there is no signal, replace the HBC board.</li> </ol> </li> </ol> |
| 6507-805-04-1<br>HS_FETA failure | Motor driver IC reports a fault (GATE DRIVE). <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the hydraulic assembly.</li> <li>2. If the problem persists, replace the HBC board.</li> </ol>  |
| 6507-805-04-2<br>LS_FETA failure | Motor driver IC reports a fault (GATE DRIVE). <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the hydraulic assembly.</li> <li>2. If the problem persists, replace the HBC board.</li> </ol>  |
| 6507-805-04-3<br>HS_FETB failure | Motor driver IC reports a fault (GATE DRIVE). <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the hydraulic assembly.</li> <li>2. If the problem persists, replace the HBC board.</li> </ol>  |
| 6507-805-04-4<br>LS_FETB failure | Motor driver IC reports a fault (GATE DRIVE). <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the hydraulic assembly.</li> <li>2. If the problem persists, replace the HBC board.</li> </ol>  |
| 6507-805-04-5<br>HS_FETC failure | Motor driver IC reports a fault (GATE DRIVE). <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the hydraulic assembly.</li> <li>2. If the problem persists, replace the HBC board.</li> </ol>  |
| 6507-805-04-6<br>LS_FETC failure | Motor driver IC reports a fault (GATE DRIVE). <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the hydraulic assembly.</li> <li>2. If the problem persists, replace the HBC board.</li> </ol>  |

| Error code ID                                      | Fault description and possible cause  | Troubleshooting  |
|--|---|--|
| <p>6507-805-04-7</p> <p>Motor driver over temp</p> | <p>Motor driver IC reports a fault.</p> <ul style="list-style-type: none"> <li>• HBC board driver fault</li> <li>• Motor short</li> </ul>   | <ol style="list-style-type: none"> <li>1. Allow the motor to cool (wait approximately 30 minutes).               <ol style="list-style-type: none"> <li>a. Perform five lift/lowers with no weight.</li> <li>b. If the cot runs OK, the issue is most likely due to continued use under heavy load.</li> </ol> </li> <li>2. If the fault persists, verify the current for each phase.               <ol style="list-style-type: none"> <li>a. Current for unloaded lift/lower should be under 20A.</li> <li>b. If above 20A, verify no obstructions/debris in roller guide or other similar areas that might restrict movement.</li> </ol> </li> <li>3. If not, replace the hydraulic assembly.</li> <li>4. If fault persists, replace the HBC board.</li> </ol>   |
| <p>6507-805-03-1</p> <p>SG1 strain gauge fault</p> | <p>SG1 Strain gauge input error.</p> <ul style="list-style-type: none"> <li>• Strain gauge cable short/open</li> <li>• Strain gauge drift (excess weight/stress on cot)</li> <li>• HBC board damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. While the cot is unloaded at transport (or load) height, and cot is not suspended, the Stryker Service Tool values should be within 0.75V to 2.0V.               <ol style="list-style-type: none"> <li>a. Move the cot up and down. The values should remain in the same range.</li> <li>b. Suspend the cot. The values should drop to the 0.25V to 1.0V range.</li> <li>c. If the values do not drop, replace the strain gauge/strain gauge bracket.</li> </ol> </li> <li>2. Unplug the strain gauge cable from enclosure. The Stryker Service Tool value should go to 0.1V.               <ol style="list-style-type: none"> <li>a. Measure the resistance across each pin combination of strain gauge connector, values will vary between 225Ω and 350Ω.</li> <li>b. If any reading is outside these values, replace the strain gauge/strain gauge bracket.</li> <li>c. If resistance check is OK, verify continuity of the HBC enclosure internal harness.</li> <li>d. If open wire, replace cable.</li> </ol> </li> <li>3. Replace the HBC board.</li> </ol> |

| Error code ID  | Fault description and possible cause  | Troubleshooting   |
|--|---|---|
| <p>6507-805-03-2</p> <p>Pressure transducer fault</p>            | <p>Pressure transducer out of range.</p> <ul style="list-style-type: none"> <li>• Pressure transducer cable open</li> <li>• Pressure transducer damaged</li> <li>• HBC board damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Perform lift and lower.               <ol style="list-style-type: none"> <li>a. Verify that the fault still exists.</li> </ol> </li> <li>2. While the cot is unloaded and not at minimum height, read the pressure transducer value from the Stryker Service Tool.               <ol style="list-style-type: none"> <li>a. If value is low (&gt;0.8V), perform continuity check.</li> <li>b. If open, verify cable is not open.</li> <li>c. If cable is OK, replace the pressure transducer/hydraulic assembly.</li> </ol> </li> <li>3. If the issue from step 1 still exists or value reads high (&gt;3.25V), replace the pressure transducer/hydraulic assembly.</li> <li>4. If steps 1 and 2 do not resolve the problem, replace the HBC board.</li> </ol>   |
| <p>6507-805-03-3</p> <p>Motor hall-effect sensor fault</p>       | <p>Hall effect sensor out of range.</p> <ul style="list-style-type: none"> <li>• Motor hall cable open</li> <li>• Motor/motor halls damaged</li> <li>• Motor drive circuitry damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Measure continuity from all pins on the HBC board connector J2 to backside of motor connector.               <ol style="list-style-type: none"> <li>a. If you detect an open circuit, move the probe up and down to the different connectors to determine which connection is causing the issue.</li> </ol> </li> <li>2. Verify the +12V signal on the HBC board from J2.2 to J2.1 ground.               <ol style="list-style-type: none"> <li>a. If you have a +12V signal, replace the hydraulic assembly.</li> <li>b. If +12V is not present: Verify no short is present between any pins on the HBC board J2 (keep all cable connections in place).</li> <li>c. If a short is detected, disconnect cables/change probe locations to determine location of short.</li> </ol> </li> <li>3. Replace the HBC board.</li> </ol> |
| <p>6507-805-03-4</p> <p>Motor board temperature sensor fault</p> | <p>PCB Temperature sensor is malfunctioning.</p> <ul style="list-style-type: none"> <li>• Sensor damaged</li> </ul>   | <ol style="list-style-type: none"> <li>1. Allow the motor to cool (wait approximately 30 minutes).</li> <li>2. Perform five lift lowers with no weight.               <ol style="list-style-type: none"> <li>a. If the motor/cot is still working, verify Stryker Service Tool value. If value is less than 2V, most likely due to continued use under heavy load.</li> <li>b. If the value remains above 2V (fault still present), replace the HBC board.</li> </ol> </li> </ol>   |

| Error code ID  | Fault description and possible cause  | Troubleshooting  |
|--|---|--|
| <p>6507-805-03-5</p> <p>Motor temperature sensor fault</p> | <p>Motor temperature sensor is malfunctioning.</p> <ul style="list-style-type: none"> <li>• Sensor open</li> <li>• Motor temp wire harness open</li> <li>• HBC board damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Allow the motor to cool (wait approximately 30 minutes).</li> <li>2. Read the Stryker Service Tool value. <ol style="list-style-type: none"> <li>a. If &gt; 3.1V, a sensor or cable is open. Disconnect the motor connector.</li> <li>b. Verify continuity of sensor at motor connector. If open, replace the hydraulic assembly.</li> <li>c. If the sensor at the motor connector is not open (resistance value between 40Ω and 500Ω), reattach the motor cable to the harness, and perform a continuity check from the motor connector side to the HBC connector. Move the probes and disconnect the cables as appropriate to find the open source.</li> <li>d. If the value remains above 3.1V (fault still present), replace the HBC board.</li> </ol> </li> </ol>   |
| <p>6507-805-03-7</p> <p>Position sensor fault</p>          | <p>Position sensor is disconnected or defective.</p> <ul style="list-style-type: none"> <li>• Wire harness open/shorted</li> <li>• Sensor is damaged</li> </ul>                         | <ol style="list-style-type: none"> <li>1. Monitor the Stryker Service Tool position sensor value. <ol style="list-style-type: none"> <li>a. Perform the lift/lower cot movement. If the value does not move or if the value remains below 100 mV, make sure that all cables are connected and check continuity of cable wires (open/short).</li> <li>b. Replace the cable harness as needed.</li> <li>c. If no harness fault is found, replace the MTS sensor.</li> </ol> </li> <li>2. Monitor the Stryker Service Tool position sensor value. <ol style="list-style-type: none"> <li>a. Perform the lift/lower cot movement. Watch the value to see if the reading jumps more than 1000 mV.</li> <li>b. If the value jumps, replace the MTS sensor.</li> </ol> </li> <li>3. Monitor the Stryker Service Tool position sensor value. <ol style="list-style-type: none"> <li>a. Perform the lift/lower cot movement. Verify that the value does not exceed 4950 mV or less than 100 mV.</li> <li>b. If the value is outside this range, replace the MTS sensor.</li> <li>c. If the fault persists, replace the FEIB.</li> </ol> </li> </ol> |

| Error code ID  | Fault description and possible cause   | Troubleshooting   |
|--|--|---|
| <p>6507-805-14-1</p> <p>Motor stall</p>                  | <p>Motor does not activate</p> <ul style="list-style-type: none"> <li>• Motor hall cable open</li> <li>• Motor cable open</li> <li>• Motor/motor halls damaged</li> <li>• Motor drive circuitry damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Verify there are no obstructions or debris in the roller guide or other similar areas that might restrict movement.</li> <li>2. Verify continuity of motor phase cables.</li> <li>3. Measure continuity from all pins on the HBC board connector J2 to backside of motor connector. <ol style="list-style-type: none"> <li>a. If you detect an open circuit, move the probe up and down to the different connectors to determine which connection is causing the issue.</li> </ol> </li> <li>4. Verify the +12V signal on the HBC board from J2.2 to J2.1 ground. <ol style="list-style-type: none"> <li>a. If +12V signal, replace the hydraulic assembly.</li> <li>b. If +12V is not present, verify no short is present between any pins on the HBC board J2 (keep all cable connections in place).</li> <li>c. If a short is detected, disconnect the cables/change probe locations to determine the location of the short.</li> </ol> </li> <li>5. Replace the HBC board.</li> </ol> |
| <p>6507-805-14-2</p> <p>Motor board over temperature</p> | <p>Motor PCB temperature exceeds a threshold.</p> <ul style="list-style-type: none"> <li>• Excessive load</li> <li>• Motor stall</li> <li>• Motor windings partially shorted</li> </ul>                            | <ol style="list-style-type: none"> <li>1. Allow the motor to cool (wait approximately 30 minutes).</li> <li>2. Perform five lift/lowers with no weight. <ol style="list-style-type: none"> <li>a. If the motor/cot is still working, verify the Stryker Service Tool value.</li> <li>b. If the value is less than 1.5V, the fault is most likely due to continued use under heavy load.</li> </ol> </li> <li>3. If the fault persists, verify the current for each phase. <ol style="list-style-type: none"> <li>a. Current for unloaded lift/lower should be under 20A.</li> <li>b. If the current is above 20A, verify there are no obstructions or debris in the roller guide or other similar areas that might restrict movement.</li> <li>c. If not, replace the hydraulic assembly.</li> </ol> </li> <li>4. If the fault persists, replace the HBC board.</li> </ol>  |

| Error code ID                           | Fault description and possible cause  | Troubleshooting   |
|---|---|---|
| 6507-805-14-3<br>Motor over temperature | <p>Motor temperature exceeds a threshold.</p> <ul style="list-style-type: none"> <li>Excessive load</li> <li>Motor stall</li> <li>Motor windings partially shorted</li> </ul> | <ol style="list-style-type: none"> <li>Allow the motor to cool (wait approximately 30 minutes).</li> <li>Perform five lift/lowers with no weight. <ol style="list-style-type: none"> <li>If the motor/cot is still working, verify the Stryker Service Tool value.</li> <li>If the value is less than 1V, the fault is most likely due to continued use under heavy load.</li> </ol> </li> <li>If the fault persists, verify the current for each phase. <ol style="list-style-type: none"> <li>Current for unloaded lift/lower should be under 20A.</li> <li>If the current is above 20A, verify there are no obstructions or debris in the roller guide or other similar areas that might restrict movement.</li> <li>If not, replace the hydraulic assembly.</li> </ol> </li> <li>If the fault persists, replace the HBC board.</li> </ol> |

### Foot end interface board (FEIB)

| Error code ID  | Fault description and possible cause  | Troubleshooting  |
|--|---|--|
| 6507-815-01-6<br>NVRAM data memory file system corrupted | <p>Data memory is corrupted and cannot be recovered.</p> <ul style="list-style-type: none"> <li>Memory IC defect</li> </ul>   | <ol style="list-style-type: none"> <li>Power cycle the cot.</li> <li>Recalibrate the cot.</li> <li>Replace the battery charger board.</li> </ol>   |
| 6507-815-02-1<br>DC over voltage                         | <p>The primary DC power supply is operating above the permissible range.</p> <ul style="list-style-type: none"> <li>Battery overcharged</li> <li>Inductive charging voltage too high</li> <li>Back EMF spike</li> <li>DC power supply defect</li> </ul> | <ol style="list-style-type: none"> <li>Check the battery voltage. <ol style="list-style-type: none"> <li>Replace the battery if voltage is over 28V.</li> </ol> </li> <li>If the battery voltage is OK, and if inductive charging, check the inductive charge output voltage. If the output voltage is over 28V: <ol style="list-style-type: none"> <li>Verify the voltages on <b>Power-LOAD</b>.</li> <li>The foot end hitch is not damaged.</li> <li>Make sure that the cot and <b>Power-LOAD</b> are operating within specifications.</li> </ol> </li> <li>If not inductively charging or the inductive charge voltages look good: <ol style="list-style-type: none"> <li>Verify that the motor phase cables and the motor hall cables do not have intermittent connection. Wiggle the wires while doing a continuity check on each wire measured from each end.</li> </ol> </li> </ol> |

| Error code ID                       | Fault description and possible cause   | Troubleshooting   |
|-------------------------------------|--|---|
| 6507-815-02-3<br>+12V over voltage  | <p>Voltage rating for +12V is over the acceptable range.</p> <ul style="list-style-type: none"> <li>• Issue caused by system bus cable or HBC board</li> <li>• Issue caused by light module</li> <li>• Buck converter on the FEIB unable to control the voltage</li> <li>• Short from Batt bus to 12V_SW bus</li> </ul>  | <ol style="list-style-type: none"> <li>1. Remove the connection from J10 on the FEIB and confirm that the fault goes away.</li> <li>2. Disconnect the UI coil cable on the FEIB enclosure and confirm that the fault goes away.</li> <li>3. Replace the FEIB board.</li> <li>4. Remove the connection from J11 on the FEIB and confirm that the fault goes away.</li> </ol> |
| 6507-815-02-4<br>+12V under voltage | <p>Voltage rating for +12V is under the acceptable range.</p> <ul style="list-style-type: none"> <li>• Short to ground on HBC or the system bus cable</li> <li>• Short to ground or any of the line of the UI/light module</li> <li>• Load on the FEIB buck converter too high/buck converter failure/12V bus short to ground</li> <li>• Short to ground on the battery charger board</li> </ul> | <ol style="list-style-type: none"> <li>1. Remove the connection from J10 on the FEIB and confirm that the fault goes away.</li> <li>2. Disconnect the UI coil cable on the FEIB enclosure and confirm that the fault goes away.</li> <li>3. Replace the FEIB board.</li> <li>4. Remove the connection from J11 on the FEIB and confirm that the fault goes away.</li> </ol> |
| 6507-815-02-5<br>+12V high current  | <p>Current rating for +12V is over the acceptable range.</p> <ul style="list-style-type: none"> <li>• HBC board drawing more current than expected</li> <li>• UIs shorted to ground</li> <li>• The inductor on the output of the buck converter damaged</li> </ul>   | <ol style="list-style-type: none"> <li>1. Disconnect the J10 connector from the FEIB and confirm that the fault goes away.</li> <li>2. Disconnect the UI coil cable from the FEIB and confirm that the fault goes away.</li> <li>3. Replace the FEIB.</li> </ol>  |
| 6507-815-02-7<br>+5V over voltage   | <p>Voltage rating for +5V is over of acceptable range.</p> <ul style="list-style-type: none"> <li>• Short to 12V bus</li> <li>• LDO of the buck converter not working</li> </ul>   | <ol style="list-style-type: none"> <li>1. Disconnect the in-ambulance sensor and the MTS sensor and confirm that the fault goes away. <ol style="list-style-type: none"> <li>a. If so, replace one or both of the sensors.</li> </ol> </li> <li>2. Replace the FEIB.</li> </ol>   |

| Error code ID                                    | Fault description and possible cause   | Troubleshooting   |
|--|--|---|
| 6507-815-02-8<br>+5V under voltage               | Voltage rating for +5V is under of acceptable range. <ul style="list-style-type: none"> <li>• Short to ground</li> <li>• Short to 3.3V line</li> </ul>   | 1. Disconnect the in-ambulance sensor and the MTS sensor and confirm that the fault goes away. <ol style="list-style-type: none"> <li>a. If so, replace one or both of the sensors.</li> </ol> 2. Replace the FEIB.   |
| 6507-815-02-9<br>Task light current out of range | Current supplied to the TASK_LIGHT_PWR current is out of the expected range. <ul style="list-style-type: none"> <li>• Task Light shorted to ground</li> <li>• Coil cable shorted to ground or 12V</li> <li>• One or both of the UIs is shorted to ground or 12V</li> </ul>   | 1. Replace the task light and confirm that the fault goes away.<br>2. Replace the coil cable and confirm that the fault goes away.<br>3. Disconnect the top UI and confirm that the fault goes away.<br>4. Disconnect the bottom UI and confirm that the fault goes away.   |
| 6507-815-02-10<br>Charge current too high        | Current supplied to the CHRG_I_SNS is exceeding a threshold. <ul style="list-style-type: none"> <li>• The wires soldered on the inductive coil is shorted</li> <li>• Metallic debris between the primary and secondary coil</li> <li>• The diodes of rectifier on the FEIB</li> <li>• Board shorted</li> <li>• Current monitor IC failure</li> </ul> | 1. Replace the inductive coil assembly and confirm that the fault goes away.<br>2. Visually inspect to see if any debris exists between the primary and secondary coils. <ol style="list-style-type: none"> <li>a. Blow air over the coils to clean it.</li> <li>b. Reconnect and confirm that the fault goes away.</li> </ol> 3. Replace the FEIB. |
| 6507-815-02-11<br>+12V HBC over voltage          | Voltage supplying the HBC is over the acceptable range. <ul style="list-style-type: none"> <li>• The 12 V Line is shorted to the 24V bus</li> <li>• The wires in the system bus cable shorted</li> <li>• Buck converter not able to regulate/ failed</li> </ul>  | 1. Disconnect the J10 connector from the FEIB and confirm that the fault goes away.<br>2. Replace the FEIB.   |



| Error code ID                            | Fault description and possible cause   | Troubleshooting  |
|--|--|--|
| 6507-815-02-12<br>+12V HBC under voltage | Voltage supplying the HBC is under the acceptable range. <ul style="list-style-type: none"> <li>• The 12V line is shorted to ground</li> <li>• Charger comm cable shorted with ground wire or CAN wires</li> <li>• Buck converter on the FEIB failed</li> </ul>                | <ol style="list-style-type: none"> <li>1. Disconnect the J10 connector from the FEIB and confirm that the fault goes away.</li> <li>2. Visually inspect to see if the J10 connector is secured to the header.               <ol style="list-style-type: none"> <li>a. Inspect the pins of the connector in the system bus cable to make sure that the pins have not backed out.</li> </ol> </li> <li>3. Replace the FEIB.</li> </ol> |
| 6507-815-02-13<br>+12V BC over voltage   | Voltage supplying the BC is over the acceptable range. <ul style="list-style-type: none"> <li>• The 12V line is shorted to ground</li> <li>• System bus cable not connected/ making intermittent contact/ disconnected</li> <li>• Buck converter on the FEIB failed</li> </ul> | <ol style="list-style-type: none"> <li>1. Disconnect the charger comm cable from the J11 of the FEIB and confirm that the fault goes away.</li> <li>2. Visually inspect the charger comm cable to verify a secure connection.               <ol style="list-style-type: none"> <li>a. Verify that the pins of the J11 connector are secured to of the FEIB.</li> </ol> </li> <li>3. Replace the FEIB.</li> </ol>                     |
| 6507-815-02-14<br>+12V BC under voltage  | Voltage supplying the BC is under the acceptable range. <ul style="list-style-type: none"> <li>• The 12V line is shorted to ground</li> <li>• Charger comm cable shorted with ground wire or CAN wires</li> <li>• Buck converter on the FEIB failed</li> </ul>                 | <ol style="list-style-type: none"> <li>1. Disconnect the charger comm cable from the J11 of the FEIB and confirm that the fault goes away.</li> <li>2. Replace the charger comm cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB.</li> </ol>   |

| Error code ID                               | Fault description and possible cause  | Troubleshooting   |
|---|---|---|
| <p>6507-815-13-1</p> <p>CAN bus offline</p> | <p>CAN controller is going bus-off and will not recover.</p> <ul style="list-style-type: none"> <li>• CAN connections on the system bus cable is shorted</li> <li>• CAN lines on the HBC shorted</li> <li>• CAN connections on the charger comm cables is shorted</li> <li>• CAN lines on the BC shorted</li> <li>• CAN controller completely failed</li> </ul> | <ol style="list-style-type: none"> <li>1. Disconnect the J10 connector from the FEIB and confirm that the fault goes away.               <ol style="list-style-type: none"> <li>a. If so, replace the cable.</li> <li>b. If the fault persists after replacing the cable, replace the HBC board to confirm that the fault goes away.</li> </ol> </li> <li>2. Disconnect the J11 connector from the FEIB and confirm that the fault goes away.               <ol style="list-style-type: none"> <li>a. If so, replace the charger comm cable.</li> <li>b. If the fault persists after replacing the charger comm cable, replace the HBC board and confirm that the fault goes away.</li> </ol> </li> <li>3. Replace the FEIB.</li> </ol> |
| <p>6507-815-13-2</p> <p>HBC offline</p>     | <p>FEIB is not getting HBC heartbeat.</p> <ul style="list-style-type: none"> <li>• Cable not connected on either the FEIB or the HBC end</li> <li>• CAN line of the system bus cable shorted/open</li> <li>• CAN controller on the HBC board failed</li> </ul>  | <ol style="list-style-type: none"> <li>1. Make sure that the connectors of the system bus cable are secured on both the FEIB and the HBC ends.</li> <li>2. Replace the system bus cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB.</li> </ol>  |
| <p>6507-815-13-3</p> <p>BC offline</p>      | <p>FEIB is not getting JB heartbeat.</p> <ul style="list-style-type: none"> <li>• Cable not connected on either the FEIB or the HBC end</li> <li>• CAN line of the system bus cable shorted/open</li> <li>• CAN controller on the BC board failed</li> </ul>  | <ol style="list-style-type: none"> <li>1. Make sure that the connectors of the charger comm cable are secured on both the FEIB and the BC ends.</li> <li>2. Replace the charger comm cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB.</li> </ol>   |

| Error code ID                                       | Fault description and possible cause  | Troubleshooting   |
|---|---|---|
| 6507-815-13-4<br>Gateway offline                    | FEIB is not getting Gateway heartbeat. <ul style="list-style-type: none"> <li>• Gateway cable on HBC end disconnected</li> <li>• Gateway board failed</li> <li>• Gateway not getting 12V from HBC</li> <li>• CAN lines on the system bus cable shorted/open/damaged/disconnected</li> </ul>   | <ol style="list-style-type: none"> <li>1. Make sure that the Gateway connection to the HBC end is secure and the connector is not damaged.</li> <li>2. Replace the Gateway board and confirm that the fault goes away (may take up to 10 minutes).</li> <li>3. Check to see if the 12V on pins 5 and 4 of the HBC J13 connector are secure.</li> <li>4. Replace the system bus cable and confirm that the fault goes away (may take up to 10 minutes).</li> </ol> |
| 6507-815-13-6<br>Accelerometer IC is not responding | Invalid information is being returned from the IC, suggesting that it is not communicating. <ul style="list-style-type: none"> <li>• Accelerometer IC lost communication with the FEIB micro</li> </ul>   | <ol style="list-style-type: none"> <li>1. Cycle power and confirm that the fault goes away.               <ol style="list-style-type: none"> <li>a. If the fault persists, replace the FEIB.</li> </ol> </li> </ol>   |
| 6507-815-13-7<br>GPS IC is not responding           | No information is being returned from the IC, suggesting that it is not communicating. <ul style="list-style-type: none"> <li>• GPS module lost communication with the FEIB micro</li> </ul>  | <ol style="list-style-type: none"> <li>1. Cycle power and confirm that the fault goes away.               <ol style="list-style-type: none"> <li>a. If the fault persists, replace the FEIB.</li> </ol> </li> </ol>   |
| 6507-815-16-0<br>FEIB up-switch failure             | A valid up button signal is decoded with no valid switch common signal detected. <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the purple wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> </ul> | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the UI one at a time until the fault goes away.</li> </ol>   |

| Error code ID                                      | Fault description and possible cause   | Troubleshooting   |
|--|--|---|
| 6507-815-16-1<br>FEIB down-switch failure          | <p>A valid down button signal is decoded with no valid switch common signal detected.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the gray wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> </ul>                           | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the UI one at a time until the fault goes away.</li> </ol> |
| 6507-815-16-2<br>FEIB release-switch failure       | <p>A valid release button signal is decoded with no valid switch common signal detected.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the yellow wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> </ul>                      | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the UI one at a time until the fault goes away.</li> </ol> |
| 6507-815-16-3<br>FEIB switch common mismatch error | <p>The decoded state of the switch common signal on the FEIB does not match the CAN reported state by the HBC.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the brown wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> </ul> | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the UI one at a time until the fault goes away.</li> </ol> |

| Error code ID                                      | Fault description and possible cause   | Troubleshooting  |
|--|--|--|
| <p>6507-815-16-4</p> <p>Work light switch</p>      | <p>The push button is stuck in the pressed state.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the brown wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the light module and confirm that the fault goes away.</li> </ol> |
| <p>6507-815-16-5</p> <p>FEIB up-switch stuck</p>   | <p>The push button is stuck in the pressed state.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the purple wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> <li>• The UI + button is damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the light module and confirm that the fault goes away.</li> </ol> |
| <p>6507-815-16-6</p> <p>FEIB down-switch stuck</p> | <p>The push button is stuck in the pressed state.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the gray wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> <li>• The UI - button is damaged</li> </ul>   | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the light module and confirm that the fault goes away.</li> </ol> |

| Error code ID   | Fault description and possible cause   | Troubleshooting  |
|---|--|--|
| <p>6507-815-16-7</p> <p>FEIB release-switch stuck</p> | <p>The push button is stuck in the pressed state.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the yellow wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> <li>• The RLS button is damaged</li> </ul>  | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the light module and confirm that the fault goes away.</li> </ol> |
| <p>6507-815-16-10</p> <p>FEIB switch common stuck</p> | <p>The switch common is stuck in the pressed state.</p> <ul style="list-style-type: none"> <li>• UI coil cable (650700080862) damaged where the brown wire is shorted to 3.3V</li> <li>• UI internal cable (650700080876) wire is shorted to 3.3V</li> <li>• The trace on the board is shorted to 3.3V</li> <li>• The UI carbon doom on any one or multiple buttons has collapsed</li> </ul> | <ol style="list-style-type: none"> <li>1. Replace the UI coil cable and confirm that the fault goes away.</li> <li>2. Replace the UI internal cable and confirm that the fault goes away.</li> <li>3. Replace the FEIB board and confirm that the fault goes away.</li> <li>4. Replace the light module and confirm that the fault goes away.</li> </ol> |

| Error code ID  | Fault description and possible cause   | Troubleshooting   |
|--|--|---|
| 6507-815-8-1<br>Ambient out of range temperature fault | Ambient temperature reading is out of range. <ul style="list-style-type: none"> <li>• Defective thermistor on the FEIB board</li> </ul>  | Replace the FEIB board.   |
| 6507-815-8-2<br>In-ambulance sensor fault              | In-ambulance sensor is disconnected or defective. <ul style="list-style-type: none"> <li>• The in-ambulance sensor is disconnected</li> <li>• The in-ambulance sensor panel mount connector is broken shorting the pins</li> <li>• In-ambulance sensor is disconnected from J13 of the FEIB</li> <li>• Wires directly attached to the in-ambulance sensor are damaged</li> </ul> | <ol style="list-style-type: none"> <li>1. Make sure that the in-ambulance sensor panel mount connector is connected.</li> <li>2. Visually inspect the in-ambulance sensor panel mount connector for any damage. <ol style="list-style-type: none"> <li>a. If damaged, replace the cable.</li> </ol> </li> <li>3. Make sure that the in-ambulance sensor cable is connected to the FEIB.</li> <li>4. Replace the in-ambulance sensor.</li> </ol> |

## Charger does not charge the battery

1. Verify that the battery power LED is illuminated.
2. Make sure that the battery does not have a fault condition. Push the button on the battery.
  - a. If the two outer LEDs flash five times and pause (repeated three times and then stop), the battery needs to be replaced.
  - b. If the LEDs illuminate as expected, there may be a problem with the charger.
3. Using a voltmeter, measure for 3.3 VDC between (-) negative and (D, C, or T) on the charger side of the connector.

## A fully charged battery does not provide sufficient power to operate the cot

1. Make sure that the battery does not have a fault condition. Push the button on the battery.
  - a. If the two outer LEDs flash five times and pause (repeated three times and then stop), the battery needs to be replaced.
  - b. If the LEDs illuminate as expected, there may be a problem with the charger.
2. Using a voltmeter, measure for 3.3 VDC between (-) negative and (D, C, or T) on the battery.

# Service

## Protecting against electrostatic discharge (ESD)

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### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

**Note** - Always ship the circuit boards back to Stryker. Use the antistatic bag that the new board was originally shipped in.

The electronic circuits in the product are completely protected from static electricity damage when factory assembled. Always use adequate static protection when you service the electronic systems of the product. All service personnel must use static protection whenever they touch wires.

Sample antistatic protection equipment includes:

- Antistatic wrist strap
- Grounding plug
- Test lead with a banana plug on one end and an alligator clip on the other end

Make sure that you follow the ESD manufacturer's instructions for appropriate protection against static discharge.

## Cot calibration

### Tools required:

- Magnet

### Procedure:

1. Using a magnet, cover the in-fastener shut-off magnet.

**Note** - The in-fastener shut-off magnet is located behind the foot end right side cover. There is a molded triangle to indicate where to place the magnet.

2. While you hold the magnet over the in-fastener shut-off magnet, push and hold the transport height button and the (+) button for five seconds.

**Note** - The LED will flash when in calibration mode.

3. Press the (-) button until the litter is all the way down.
4. Press the (+) button until the litter is all the way up.
5. Using a load surface, support the cot so all four casters do not touch the ground.
6. Press the cot into the loading position.
7. Press the (-) button for one second to retract the base a little.
8. Press the transport height button to save the calibration.

**Note** - The transport height lights will flash after calibration if the calibration failed. The cot will default to slow speed motion until calibration is successful.

9. Verify proper operation of the high speed retract and high speed extend before you set the cot down.

**Note** - To change the default cot load height, raise or lower the cot to the desired height and press the (+) and (-) buttons for three to five seconds. The cot load height LED will flash twice when the new cot load height is saved.



## 12 VDC automotive cable fuse replacement

### Tools required:

- None

### Procedure:

1. Unplug the adaptor cable from the plug (B) and the plug connector (A) (Figure 6).
2. Unscrew the tip on the source end and remove the fuse.

**Note** - The source tip and the fuse tension spring are loose and could be dropped.

3. Install the supplied 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 for functionality before you return the charger to service.



Figure 6 – 12 VDC automotive cable

## Backrest adjustment

### Tools required:

- Loctite®
- 1/2" combination wrench
- 5/32" hex wrench
- 3/32" hex wrench
- Small slotted screwdriver
- T25 Torx driver
- Torque wrench (in-lb)

### Procedure:

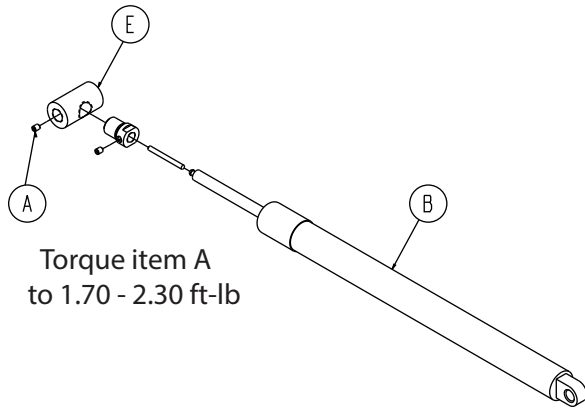
1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and Fowler in the highest height positions.
4. Check that the gas cylinder (B) is threaded into the gas spring yoke (E) so that no threads are visible on the gas cylinder shaft (Figure 7).
5. If threads are visible, complete these steps:

- a. Using a T25 Torx driver, remove the two button head cap screws (K) that secure the gas spring yoke end (G) to the yoke on the patient left side (Figure 8). Save the screws.

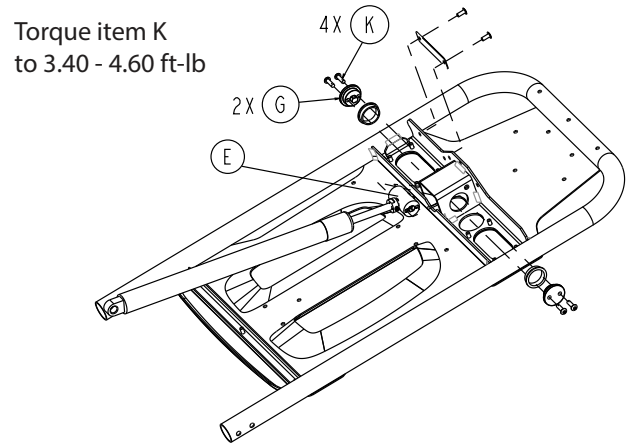
**Note** - Using a torque wrench, torque the button head cap screws to 3.40 - 4.60 ft-lb when you reinstall.

- b. Using a 3/32" hex wrench, remove the set screw (A) from the center of the gas spring yoke (E) (Figure 7 and Figure 8). Save the screw.

**Note** - Using a torque wrench, torque the set screw to 1.70 - 2.30 ft-lb when you reinstall.

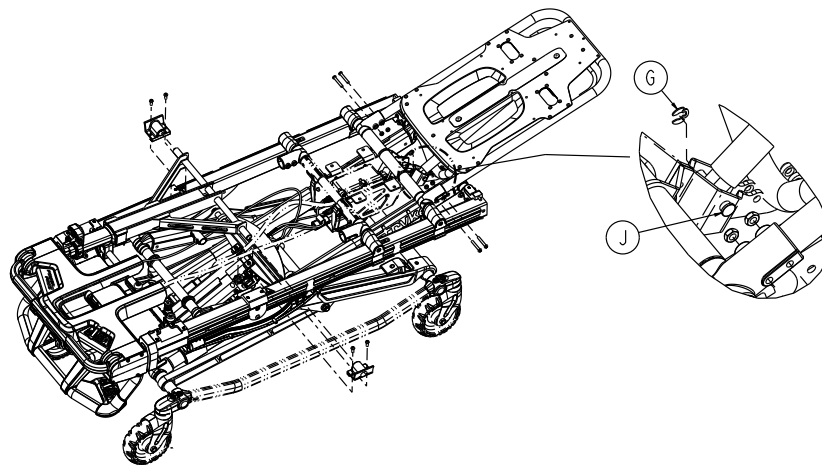


**Figure 7 – Fowler cylinder components**



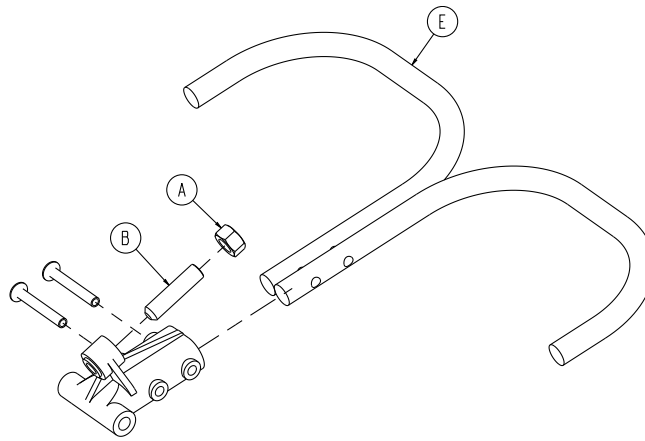
**Figure 8 – Remove the button head cap screws**

- c. Using a small slotted screwdriver, remove the truarc ring (G) and Fowler cylinder pin (J) that secure the bottom of the gas cylinder to the mount (Figure 9). Save the truarc ring and Fowler cylinder pin.



**Figure 9 – Remove the truarc ring and Fowler cylinder pin**

- d. Thread the gas cylinder into the gas spring yoke until no threads are visible on the gas cylinder shaft.
- e. Using a small slotted screwdriver, reinstall the truarc ring and Fowler cylinder pin (removed in step 3c).
- f. Using **Loctite®** and a 3/32" hex wrench, reinstall the set screw (removed in step 3b).
6. Using a 1/2" combination wrench, loosen the hex nut (A) on the Fowler release handle pivot while using a 5/32" hex wrench to hold the set screw (B) fixed in the pivot (Figure 10).
7. Using a 5/32" hex wrench, turn the set screw until there is no movement between the Fowler release handle (E) and the pneumatic cylinder release button (Figure 10).



**Figure 10 – Loosen the hex nut**

8. Check that the backrest travels from flat to the highest height position. If it does not, turn the set screw clockwise half of a turn. Repeat until the backrest can achieve at least 75 degrees of movement.
9. Verify proper operation before you return the product to service.

## Fowler cylinder assembly replacement

### Tools required:

- Loctite®
- 1/2" combination wrench
- 5/32" hex wrench
- 3/32" hex wrench
- Small slotted screwdriver
- T25 Torx driver
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and Fowler in the highest height positions.
4. Using a T25 Torx driver, remove the two button head cap screws (K) that secure the gas spring yoke end (G) to the gas spring yoke (E) on the patient left side (Figure 11). Save the screws.

**Note** - Using a torque wrench, torque the button head cap screws to 3.40 - 4.60 ft-lb when you reinstall.

5. Repeat step 2 on the patient right side.
6. Using a 3/32" hex wrench, remove the set screw (A) from the center of the gas spring yoke (E) (Figure 12). Save the screw.

**Note** - Using a torque wrench, torque the set screw to 1.70 - 2.30 ft-lb when you reinstall.

Torque item K  
to 3.40 - 4.60 ft-lb

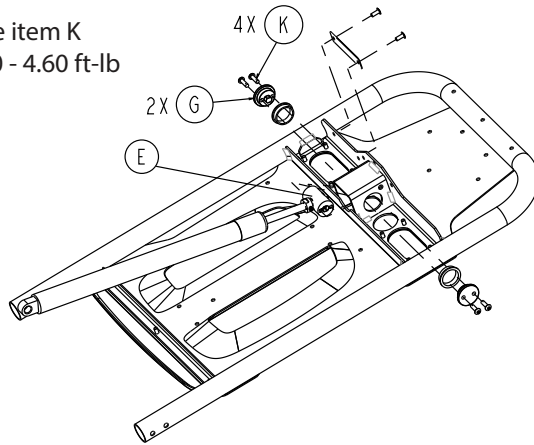


Figure 11 – Remove the button head cap screws

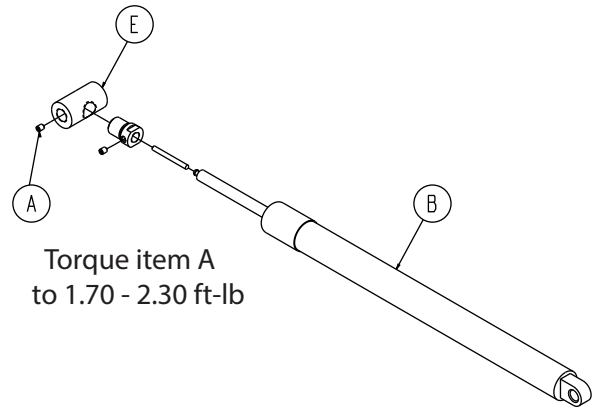


Figure 12 – Fowler cylinder components

- Using a small slotted screwdriver, remove the truarc ring (G) and Fowler cylinder pin (J) that secure the bottom of the gas cylinder to the mount (Figure 13). Save the truarc ring and Fowler cylinder pin.

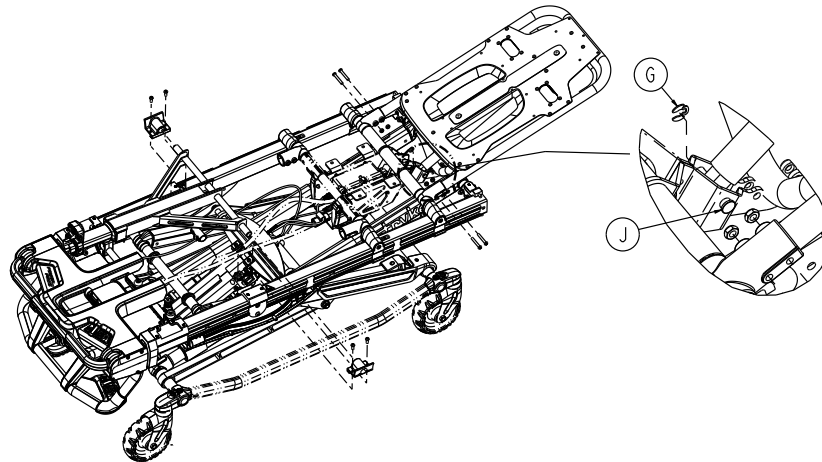


Figure 13 – Remove the truarc ring and Fowler cylinder pin

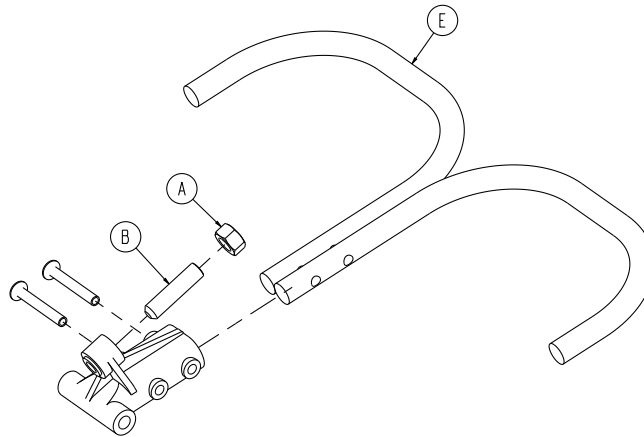
- Hold the Fowler up and pull out the bottom of the gas cylinder (B) (Figure 12).
- Lower the gas cylinder and gas spring yoke out of the backrest.
- Thread the cylinder shaft out of the gas spring yoke. Discard the gas cylinder. Save the gas spring yoke.
- Reverse steps to install the supplied Fowler cylinder assembly.

**Note** - Check that the gas cylinder is threaded into the gas spring yoke (removed in step 8) so that no threads are visible on the gas cylinder shaft.

- If threads are visible, complete these steps:

- Using a T25 Torx driver, remove the two screws that secure the pivot bearing to the gas spring yoke on the patient left side. Save the screws.
- Using a 3/32" hex wrench, remove the set screw from the center of the gas spring yoke. Save the screw.
- Using a small slotted screwdriver, remove the truarc ring and Fowler cylinder pin that secure the bottom of the gas cylinder to the mount. Save the truarc ring and Fowler cylinder pin.
- Thread the gas cylinder shaft into the gas spring yoke until no threads are visible on the gas cylinder shaft.
- Using a small slotted screwdriver, replace the truarc ring and Fowler cylinder pin (removed in step 11c).
- Using **Loctite**® and a 3/32" hex wrench, replace the set screw (removed in step 11b).

13. Using a 1/2" combination wrench, loosen the hex nut (A) on the Fowler release handle pivot while using a 5/32" hex wrench to hold the set screw (B) fixed in the pivot (Figure 14).
14. Using a 5/32" hex wrench, turn the set screw until there is no movement between the Fowler release handle (E) and the pneumatic cylinder release button (Figure 14).
15. Check that the backrest travels from flat to the highest height position. If it does not, turn the set screw clockwise half of a turn. Repeat until the backrest can achieve at least 75 degrees of movement.
16. Lower the backrest to a 5-10 degree angle and release the handle. Apply approximately 50 lb of downward force to the end of the backrest. If the backrest drifts down, turn the set screw counterclockwise. Repeat until the backrest does not drift down.
17. Using the 1/2" combination wrench, tighten the hex nut (A) while you hold the set screw (B) fixed in the pivot (Figure 14).



**Figure 14 – Loosen the hex nut**

18. Verify proper operation before you return the product to service.

## Head section replacement

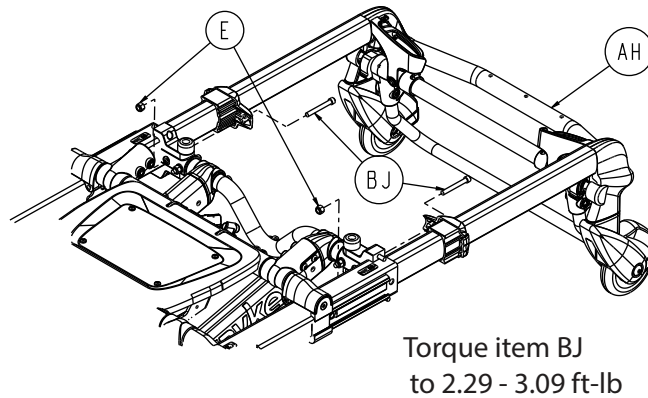
### Tools required:

- 7/16" combination wrench
- 3/16" hex wrench
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Place the cot and Fowler in the highest height positions.
3. Using a 7/16" combination wrench and a 3/16" hex wrench, remove the two socket head cap screws (BJ) and Fiberlock hex nuts (E) that secure the cap bearings to the base litter interface bracket (one on each side) (Figure 15). Save the screws and nuts.

**Note** - Using a torque wrench, torque the socket head cap screws to 2.29 - 3.09 ft-lb when you reinstall.



**Figure 15 – Head section components**

4. Squeeze the head section release handles and remove the head section assembly (AH) (Figure 15).
5. Reverse steps to reinstall.
6. Verify proper operation before you return the product to service.

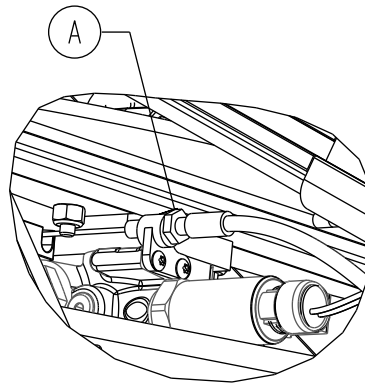
## Manual release cable adjustment

### Tools required:

- 8 mm combination wrench
- 10 mm combination wrench

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and Fowler in the highest height positions.
4. Extend the foot section assembly.
5. Using a 10 mm combination wrench, loosen the manual release cable lock nut (A) (Figure 16).

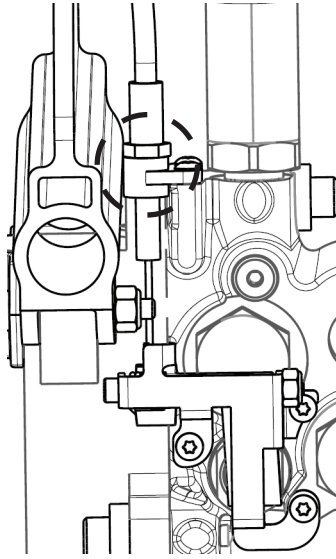


**Figure 16 – Loosen the manual release cable lock nut**

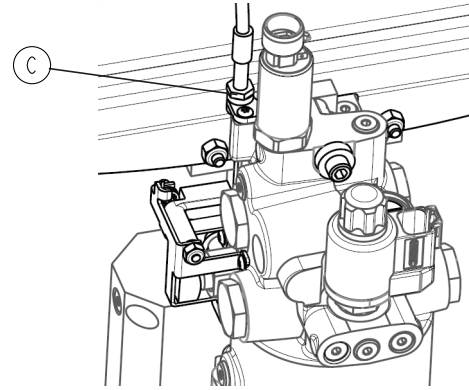
6. Using an 8 mm combination wrench, thread the manual release cable through the bracket until the cable is flush with the bracket (Figure 17).
7. Using an 8 mm combination wrench, adjust the tension on the manual release cable.
 

**Note** - Do not let the cable rotate during adjustment. Hold the cable flat while you adjust tension.
8. Using a 10 mm combination wrench, tighten the jam nut (C) after slack in the manual release cable is gone (Figure 18).

**Note** - This occurs when the manual release finger begins to move toward the manual release valve.



**Figure 17 – Cable flush with bracket**

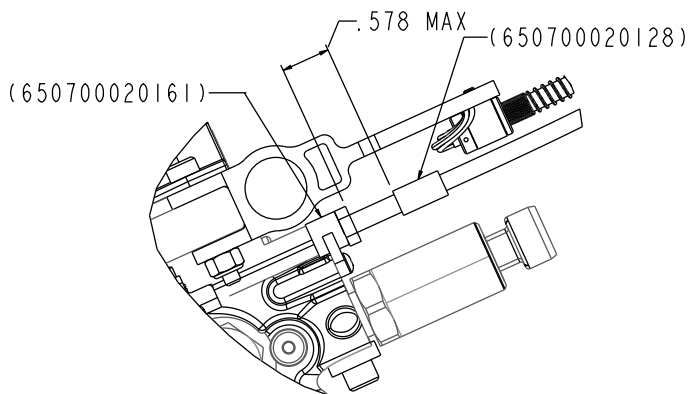


**Figure 18 – Tighten the jam nut**

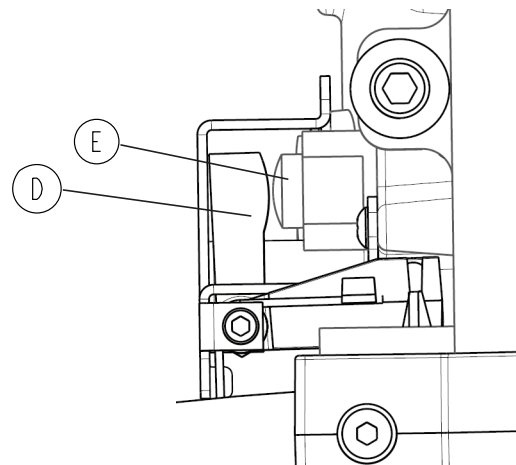
9. Make sure that the maximum distance between the cable jam nut and the manual release cable stem is 0.578" (Figure 19).

**Note** - The load height must read 34.5" - 35.5".

10. Suspend the head end and foot end of the cot.
11. Press the minus (-) button to retract the base.
12. Press and hold the minus (-) button until the motor times out (approximately two seconds).
13. Pull the manual release handle. Make sure that the cot legs extend.
14. Make sure that there is a visible gap between the manual release finger (D) and the manual release valve (E) (Figure 20).



**Figure 19 – Maximum distance**



**Figure 20 – Visible gap**

15. Verify proper operation before you return the product to service.

# Battery power/comm cable assembly replacement

## Tools required:

- T20 Torx driver
- T27 Torx driver
- Torque screwdriver (in-lb)

## Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and foot section in the highest height positions.
4. Extend and lock the foot section assembly.
5. Remove the cot battery.

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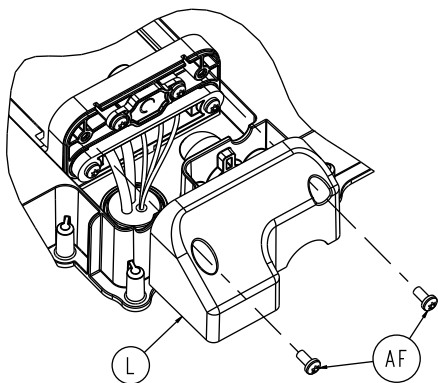
**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

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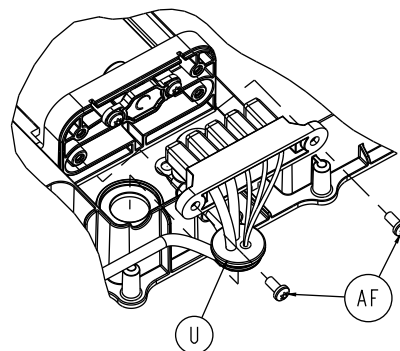
6. Using a T20 Torx driver, remove the two pan head tapping screws (AF) that secure the battery mount back cover (L) to the foot end interface assembly (FEIB) (Figure 21). Save the screws.

**Note** - Fully seat the power/comm cable assembly when you reinstall.

7. Using a T20 Torx driver, remove the two pan head tapping screws (AF) that secure the battery power/comm cable assembly (U) (Figure 22). Save the screws.



**Figure 21 – Remove the battery mount back cover screws**



**Figure 22 – Remove the battery power/comm cable assembly screws**

8. Using a T27 Torx driver, remove the two button head cap screws (CD) that secure the Gatch bumper housing (CA) to the hitch bracket (Figure 23). Remove and save the Gatch bumper housing. Save the screws. Repeat on the other side.

**Note** - Using a torque screwdriver, torque the button head cap screws to 3.91 - 5.29 ft-lb when you reinstall.

9. Unscrew the FEIB status external module coil cable assembly from the bottom FEIB enclosure. Fold the cable assembly toward the foot end of the cot.
10. Using a T20 Torx driver, remove the thirteen round washer head tapping screws (AV) that secure the top FEIB enclosure (AL) to the bottom FEIB enclosure (Figure 24). Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 0.95 - 1.16 ft-lb when you reinstall.



Torque item CD  
to 3.91 - 5.29 ft-lb

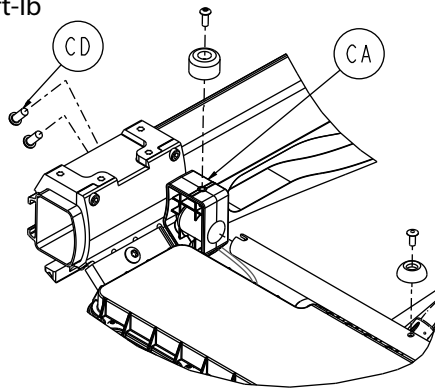


Figure 23 – Remove the Gatch bumper housing

Torque item AV  
to 0.95 - 1.16 ft-lb

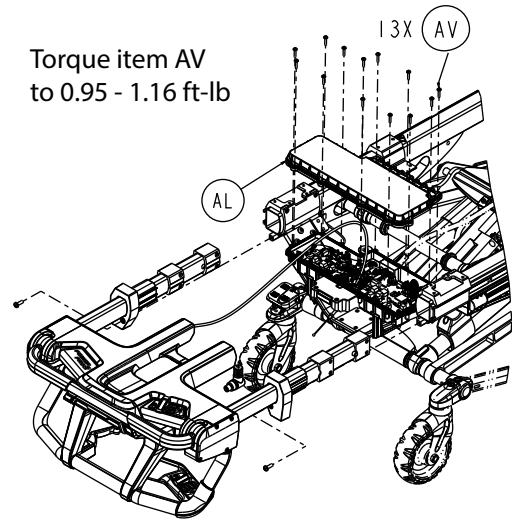


Figure 24 – Remove the FEIB cover screws

11. Remove the top FEIB enclosure from the bottom FEIB enclosure.
12. Using a T20 Torx driver, remove the two pan head tapping screws that secure the positive and negative cables to the charging board. Save the screws.
13. Remove the connection J3 cable at the charging board.
14. Remove the cables and plug from the bottom of the FEIB.
15. Remove the battery power/comm cable assembly from the holder and discard.
16. Reverse steps to reinstall.

**Note** - Fully seat the power/comm cable assembly when you reinstall.

17. Verify proper operation before you return the product to service.

## Cot retaining post replacement

### Tools required:

- T27 Torx driver
- T30 Torx driver
- Torque wrench (in-lb)

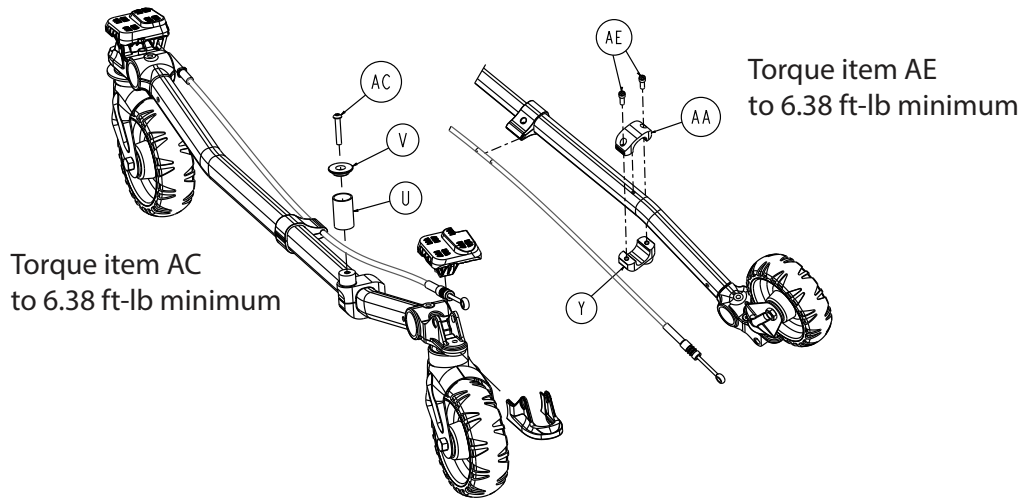
### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and Fowler in the highest height positions.
4. Tilt the cot onto the patient left side.

### Note

- Use caution when you place the cot on its side as it is heavy and could move.
- Locate and note the arrow or groove in the bottom bracket. Assemble the supplied retaining post bracket to this same orientation.
- 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.

5. Using a T30 Torx driver, remove the two socket head cap screws (AE) that secure the cot retaining post to the base tube (Figure 25). Discard the screws and cot retaining post.
6. Assemble the supplied cot retaining post across the base tube. Align the holes of the brackets and insert two supplied socket head cap screws into the threaded holes of the bottom pin bracket.
7. Using a torque wrench, tighten the socket head cap screws (AE) to 6.38 ft-lb (minimum).
8. Insert the button head cap screw (AC) through the retaining post cap (V) and retaining post body (U), and then into the top pin bracket (AA).
9. Using a T27 Torx driver, tighten the button head cap screw to secure the retaining post cap and retaining post body to the bottom bracket (Y).



**Figure 25 – Cot retaining post components**

10. Using a torque wrench, torque the screw (AC) to 6.38 ft-lb (minimum).
11. Verify proper operation before you return the product to service.

**Note** - You may need to adjust the rail clamp assembly to compensate for any variation in cot retaining post position, depending on the ambulance cot manufacturer and model number.

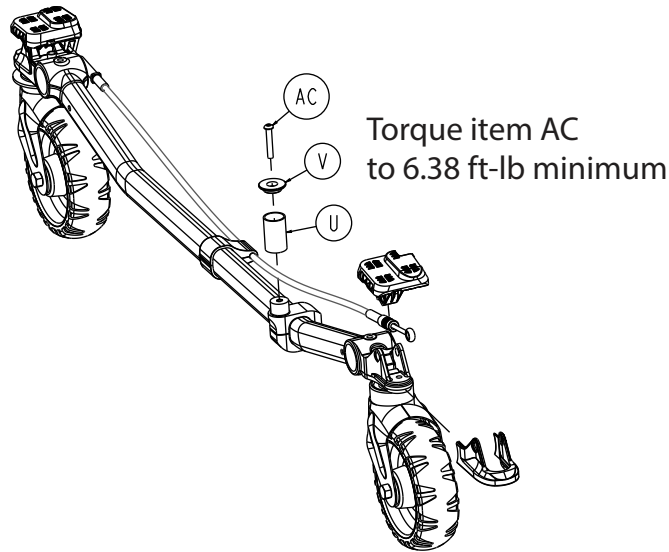
## Cot retaining post screw replacement

### Tools required:

- T27 Torx driver
- Torque wrench (in-lb)

### Procedure:

1. Using a T27 Torx driver, remove the button head cap screw (AC) that secures the retaining post cap (V) and retaining post body (U) to the top bracket (Figure 26). Discard the screw.



**Figure 26 – Remove and discard the button head cap screw**

2. Using a T27 Torx driver, install and tighten the supplied button head cap screw to secure the retaining post cap and retaining post body to the top portion of the lock base assembly.
3. Using a torque wrench, torque the screw to 6.38 ft-lb (minimum).

**Note** - If you cannot torque the screw to 6.38 ft-lb (minimum), then you must replace the entire cot retaining post. See *Cot retaining post replacement* (page 49).

4. Verify proper operation before you return the product to service.

## Hydraulic cylinder assembly replacement

---

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

#### Tools required:

- |                            |                         |
|----------------------------|-------------------------|
| • 9/16" combination wrench | • 1/8" hex wrench       |
| • 3/4" combination wrench  | • T20 Torx driver       |
| • T10 Torx driver          | • T25 Torx driver       |
| • 3/8" combination wrench  | • Torque wrench (in-lb) |

#### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and Fowler in the highest height positions.
4. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

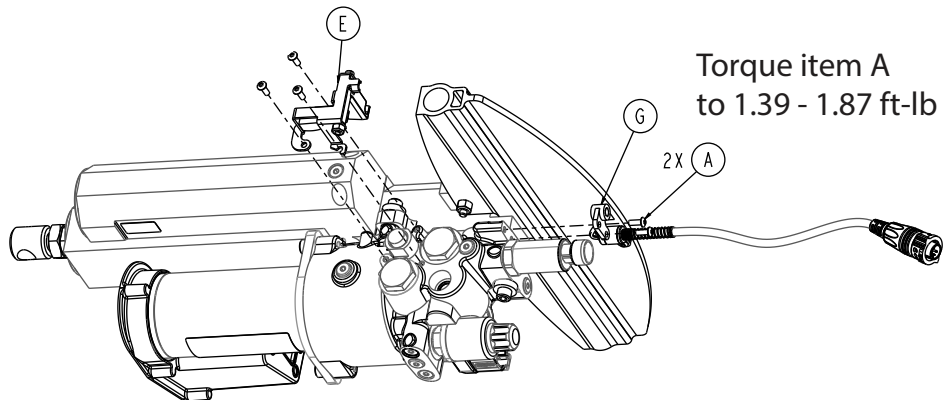
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5. Raise XPS siderails (if equipped) to the upright and locked position.

- Using a T10 Torx driver, remove the two button head cap screws (A) that secure the manual release cable bracket (G) to the X-frame cross brace (Figure 27). Save the screws and bracket.

**Note** - Using a torque wrench, torque the button head cap screws to 1.39 - 1.87 ft-lb when you reinstall.

- Remove the manual release cable from the manual release bracket assembly (E) (Figure 27).



**Figure 27 – Actuator lift assembly components**

- Unplug the two valve cables from the valves on the hydraulic cylinder.

**Note** - Use an ESD system when you unplug the cable connectors.

- Stand at the foot end and tilt the cot onto its head section.

---

**CAUTION** - Always use care when you lift and support the cot. The cot may move while you tip the cot onto the head section.

---

**Note** - Make sure that the head section is retracted and locked.

- Pull the manual release handle to relieve any pressure in the hydraulic system.

- Using a T20 Torx driver, remove the five round washer head tapping screws (AV) that secure the actuator end cap (AD) to the hydraulic assembly electrical box (Figure 28). Save the screws and end cap.

**Note** - Using a torque wrench, torque the round washer head tapping screws to 1.28 - 1.73 ft-lb when you reinstall.

- Unlock and unplug both cable connections in the electrical box.

- Using a T25 Torx driver, remove the four button head torx screws (A) that secure the lift motor cable assembly to the actuator cover (Figure 28). Remove and save the lift motor cable assembly. Save the screws.

**Note** - Using a torque wrench, torque the button head torx screws to 1.28 - 1.73 ft-lb when you reinstall.

- Using a 1/8" hex wrench and 3/8" combination wrench, remove the two socket head shoulder bolts (J) and Fiberlock nuts (C) that secure the actuator assembly to the X-frame cross brace (Figure 29). Save the bolts and nuts.

**Note** - Using a torque wrench, torque the socket head shoulder bolts to 1.75 - 2.37 ft-lb when you reinstall.

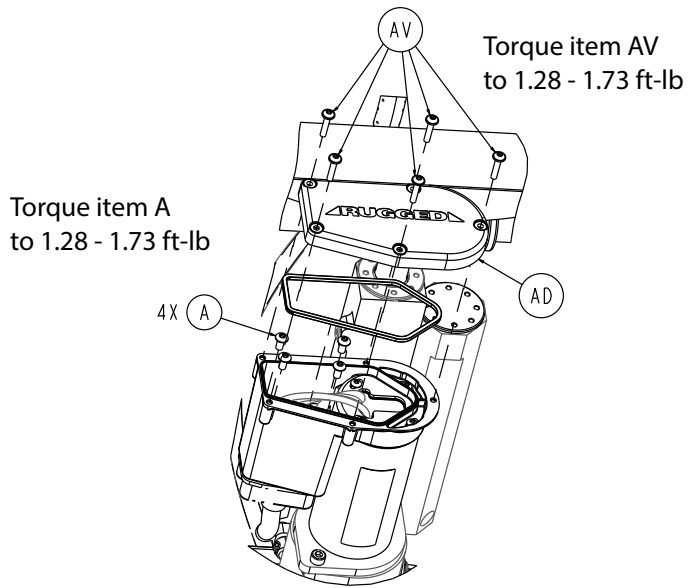


Figure 28 – Lift motor cable assembly components

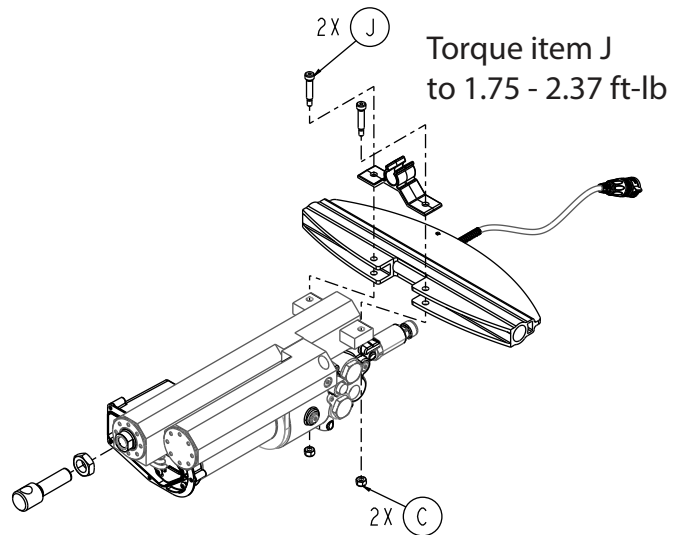


Figure 29 – Remove the actuator assembly bolts and nuts

15. Using a 3/4" combination wrench and a 9/16" combination wrench, remove the rod attachment pin (R), flat washer (B), and Nylock hex nut (E) that secure the hydraulic cylinder to the base (Figure 30). Save all parts.

**Note** - Using a torque wrench, torque the rod attachment pin to 9.61 - 13.00 ft-lb when you reinstall.

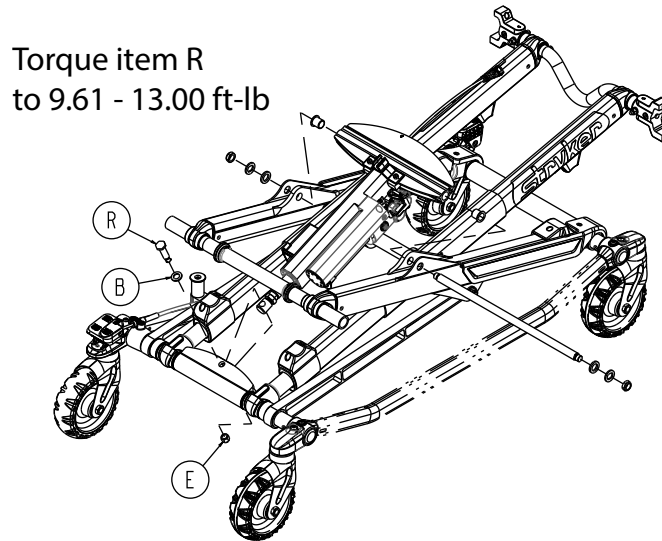


Figure 30 – Lift assembly components

16. Remove and discard the hydraulic cylinder assembly.
17. Reverse steps to reinstall.
18. Calibrate the cot. See *Cot calibration* (page 40).
19. Raise and lower the cot several times to check functionality.
20. Verify proper operation before you return the product to service.

## Siderail assembly replacement (standard)

### Tools required:

- T25 Torx driver
- 3/16" hex driver
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise the siderail to the up and locked position.
5. Using a T25 Torx driver and a 3/16" hex driver, remove the three button head cap screws (H) and siderail nuts (E) that secure the siderail assembly to the cot (Figure 31). Save the screws and nuts.

**Note** - Using a torque wrench, torque the button head cap screws and siderail nuts to 4.05 - 5.49 ft-lb when you reinstall.

6. Remove and discard the siderail (B) (Figure 31).

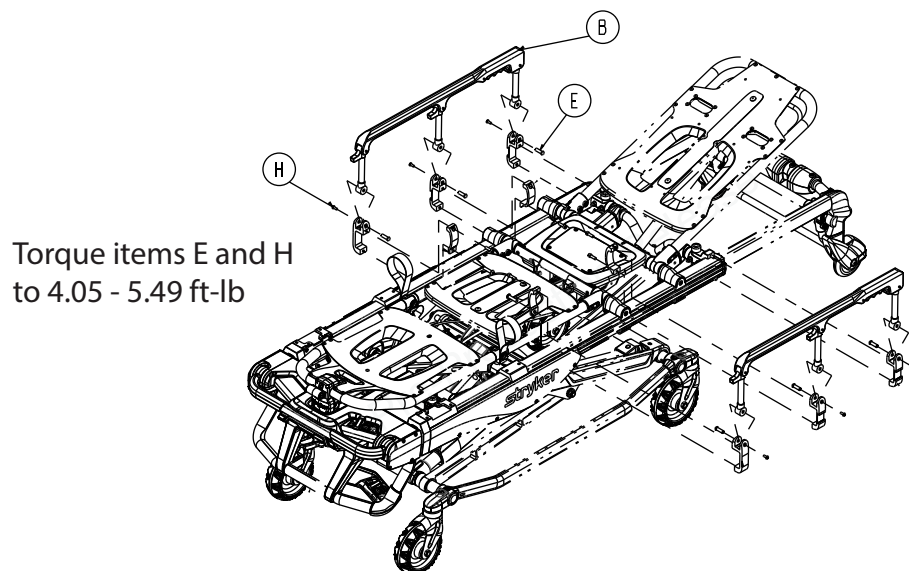


Figure 31 – Standard siderail components

7. Reverse steps to reinstall.
8. Verify proper operation before you return the product to service.

## Siderail assembly replacement (XPS option)

### Tools required:

- T25 Torx driver
- 1/4" hex wrench
- 3/16" hex wrench
- Slotted screwdriver
- Torque wrench (in-lb)
- Rubber mallet

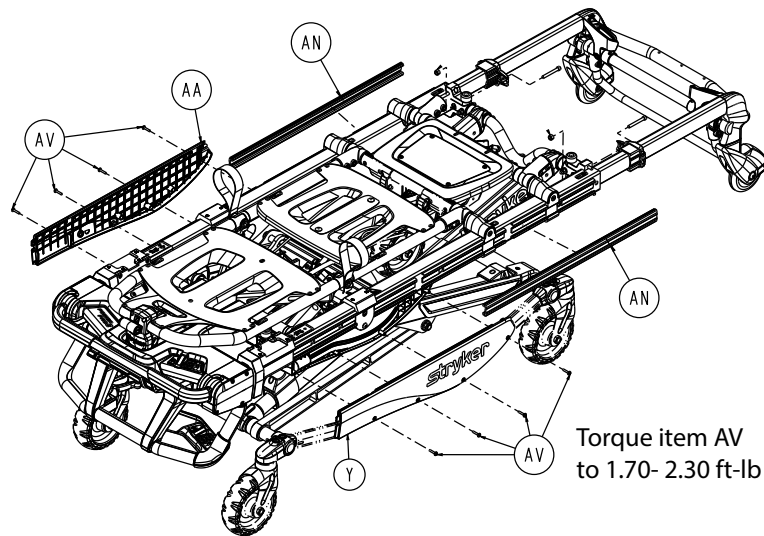
**Procedure:**

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Using a T25 Torx driver, remove the four round washer head tapping screws (AV) and slider block cover (Y or AA) on the side where you are replacing the siderail (Figure 32). Save the screws and slider block cover.

**Note** - Using a torque wrench, torque the round washer head tapping screws to 1.70 - 2.30 ft-lb when you reinstall.

5. Using a slotted screwdriver, remove the outer rail bumper (AN) (Figure 32). Save the outer rail bumper.

**Note** - Use a rubber mallet to reinstall the outer rail bumper.



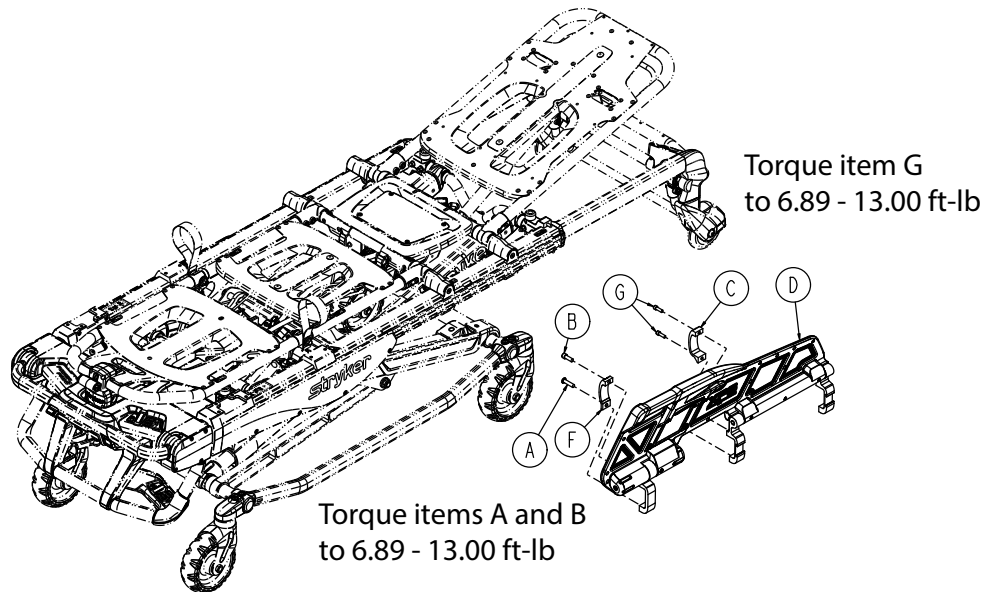
**Figure 32 – Remove the screws and slider block cover**

**Note**

- Hold on to the siderail main assembly when you remove the outer rail bumper to prevent the outer rail bumper from falling off.
  - The head end and middle siderail pivots may be loose and could fall off of the main assembly.
6. Using a 1/4" hex wrench, remove the hex socket button head cap screw (A), socket head cap screw (B) and XPS inner bracket (F) that secure the ratchet assembly at the foot end of the main assembly (Figure 33). Save the screws and bracket.

**Note**

- Using a torque wrench, torque both of the supplied screws to 6.89 - 13.00 ft-lb when you reinstall.
  - The siderail will be loose; do not operate or pull on the siderail.
7. Using a 3/16" hex wrench, remove the two socket head cap screws (G) that secure the siderail clamp (C) to the outer rail assembly (Figure 33). Save the screws and clamp.



**Figure 33 – Replace the XPS siderail**

8. Remove and discard the XPS assembly (D) (Figure 33).
9. Reverse steps to reinstall.
10. Verify proper operation before you return the product to service.

## Ratchet assembly replacement (XPS option)

### Tools required:

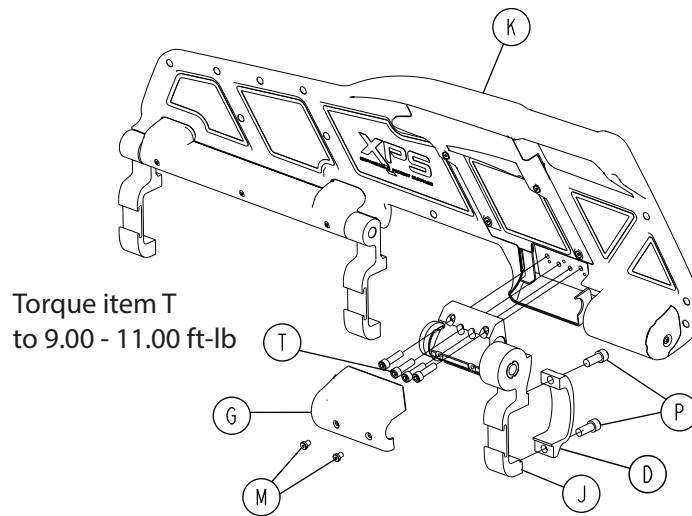
- 3/32" hex wrench
- 1/4" hex wrench
- 3/16" hex wrench
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise the siderail to the up and locked position.
5. Using a 3/32" hex wrench, remove the two socket head cap screws (M) that secure the ratchet cover (G) to the ratchet assembly (J) (Figure 34). Remove and save the ratchet cover. Save the screws.
6. Using a 1/4" hex wrench, remove the socket head cap screws (P) that secure the siderail clamp (D) to the ratchet assembly at the foot end of the main assembly. Save the screws.
7. Using a 3/16" hex wrench, remove the four socket head cap screws (T) that secure the ratchet assembly to the overmold assembly (K). Remove and discard the ratchet assembly. Save the screws.

**Note** - Using a torque wrench, torque the socket head cap screws to 9.00 - 11.00 ft-lb when you reinstall.





**Figure 34 – Ratchet assembly components (XPS)**

8. Grasp the ratchet assembly and pull toward the head end of the cot to remove. Discard the ratchet assembly.
9. Reverse steps to reinstall.
10. Verify proper operation before you return the product to service.

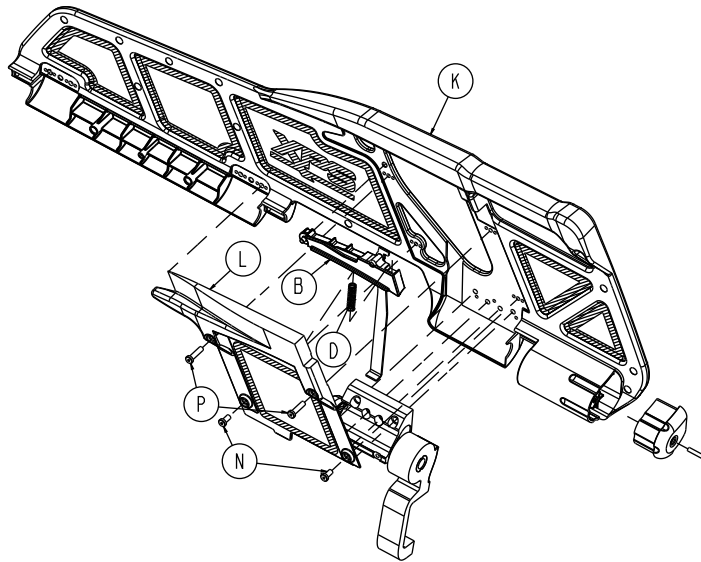
## Release handle assembly replacement (XPS option)

### Tools required:

- 3/32" hex wrench
- Small slotted screwdriver

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise the siderail to the up and locked position.
5. Using a 3/32" hex wrench, remove the four socket head cap screws (N and P) that secure the release cover (L) to the overmold assembly (K) (Figure 35). Remove and save the release cover. Save the screws.
6. Using a small slotted screwdriver, pry the handle spring (D) up. Remove and save the spring.
7. Grasp the handle assembly (B) and lift the handle spring side to remove from the cover. Discard the handle assembly.



**Figure 35 – Release/spring handle assembly components (XPS)**

8. Reverse steps to reinstall.
9. Verify proper operation before you return the product to service.

## Spring handle assembly replacement (XPS option)

### Tools required:

- 3/32" hex wrench
- Small slotted screwdriver

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise the siderail to the up and locked position.
5. Using a 3/32" hex wrench, remove the four socket head cap screws (N and P) that secure the release cover (L) to the overmold assembly (K) (Figure 35). Remove and save the release cover. Save the screws.
6. Using a small slotted screwdriver, pry the handle spring (D) up. Remove and discard the spring.
7. Reverse steps to reinstall.
8. Verify proper operation before you return the product to service.

## Hydrogen base control (HBC) board replacement

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### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
-

**Tools required:**

- T20 Torx driver
- T25 Torx driver
- 3/8" combination wrench
- Torque screwdriver (in-lb)
- ESD system

**Procedure:**

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Remove the cot battery.

---

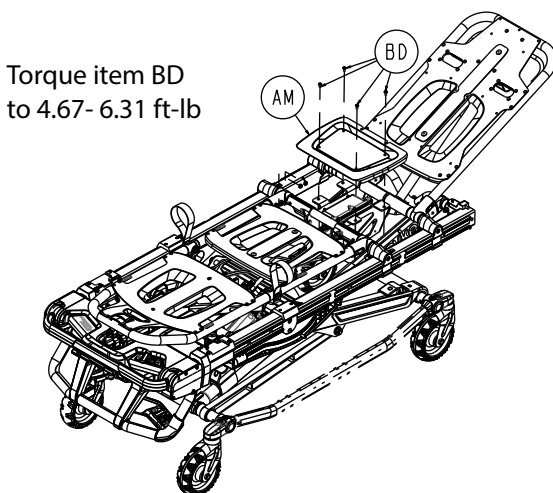
**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

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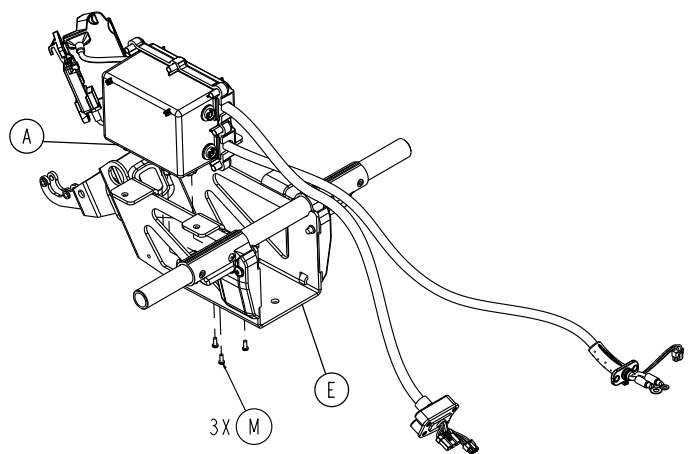
5. Using a T25 Torx driver, remove the four pan head thread rolling screws (BD) that secure the seat skin (AM) to the cot (Figure 36). Remove and save the seat skin. Save the screws.

**Note** - Using a torque screwdriver, torque the pan head thread rolling screws to 4.67 - 6.31 ft-lb when you reinstall.

6. Using a T20 Torx driver, remove the three pan head tapping screws (M) that secure the HBC enclosure assembly (A) to the birdcage (E) (Figure 37). Save the screws.



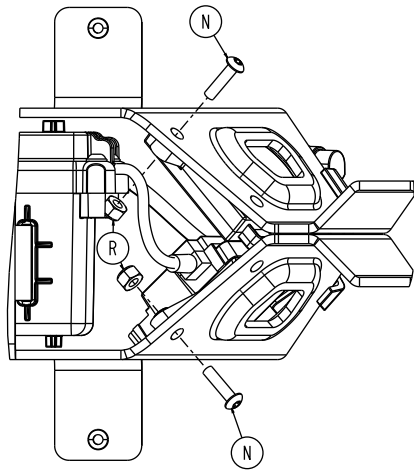
**Figure 36 – Remove the seat skin screws**



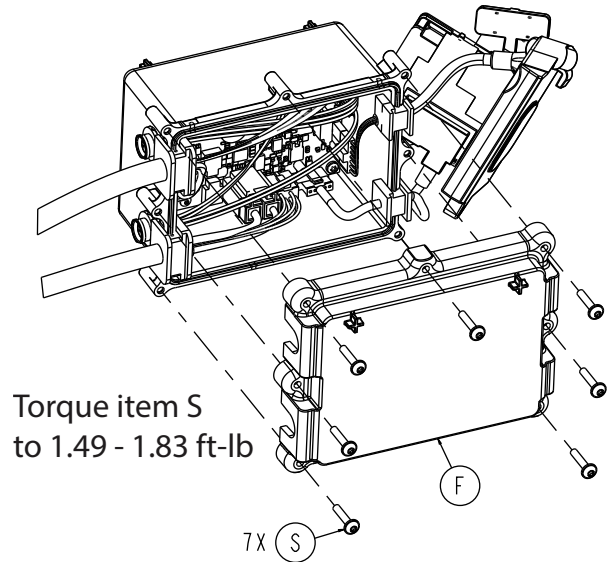
**Figure 37 – Remove the HBC enclosure assembly screws**

7. Using a T25 Torx driver and a 3/8" combination wrench, remove the button head cap screw (N) and Fiberlock nut (R) that secure the wireless module, if equipped, and the NFMIC module to the cot, if equipped (Figure 38). Save the screw and nut.
8. Unhook the wireless and NFMIC module(s), if equipped, from the frame and drop the wireless module out of the bottom of the cot.
9. Lift the HBC enclosure assembly up through the seat section to access the screws that secure the HBC top cover.
10. Using a T20 Torx driver, remove the seven round washer head tapping screws (S) that secure the top cover (F) to the HBC enclosure assembly (Figure 39). Remove and save the top cover. Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 1.49 - 1.83 ft-lb when you reinstall.



**Figure 38 – Remove the wireless module screw and nut**

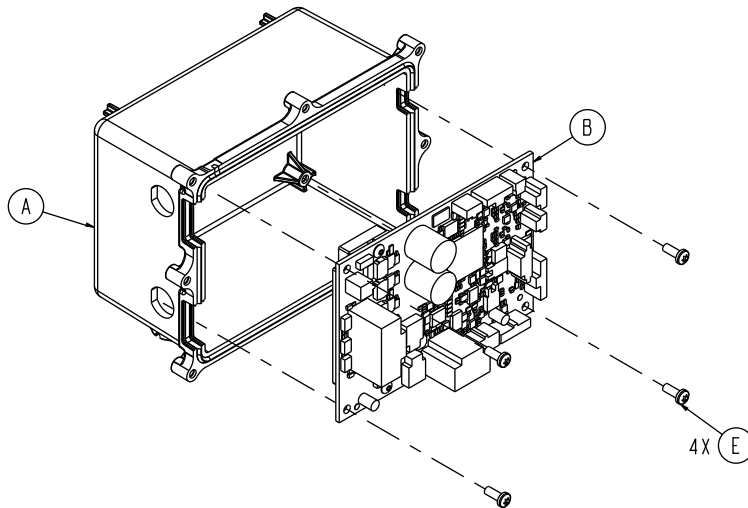


**Figure 39 – Remove the HBC top cover screws**

11. Unplug the cable connectors from the HBC board.

**Note** - Use an ESD system when you unplug the cable connectors and remove and install the HBC board.

12. Using a T20 Torx driver, remove the four pan head tapping screws (E) that secure the HBC board (B) to the HBC board enclosure assembly (A) (Figure 40). Discard the HBC board.



**Figure 40 – Remove the HBC board screws**

13. Reverse steps to reinstall.

**Note** - Push the rubber grommets from the cables into the HBC enclosure assembly pockets.

14. Calibrate the cot. See *Cot calibration* (page 40).

15. Verify proper operation before you return the product to service.

# Wireless module replacement

## CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
- Do not place unprotected circuit boards on the floor.

## Tools required:

- T20 Torx driver
- T25 Torx driver
- 3/8" combination wrench
- Torque screwdriver (in-lb)
- ESD system
- Wireless configuration tool (5212-502-003)

## Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Remove the cot battery.

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

5. Using a T25 Torx driver, remove the four pan head thread rolling screws (BD) that secure the seat skin (AM) to the cot (Figure 41). Remove and save the seat skin. Save the screws.

**Note** - Using a torque screwdriver, torque the pan head thread rolling screws to 4.67 - 6.31 ft-lb when you reinstall.

6. Using a T20 Torx driver, remove the three pan head tapping screws (M) that secure the HBC enclosure assembly (A) to the birdcage (E) (Figure 42). Save the screws.

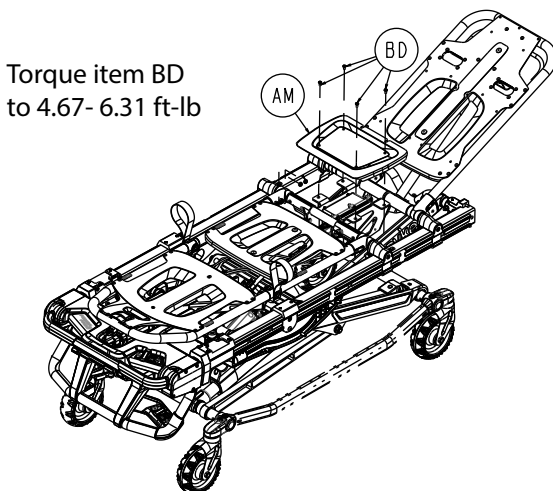


Figure 41 – Remove the seat skin screws

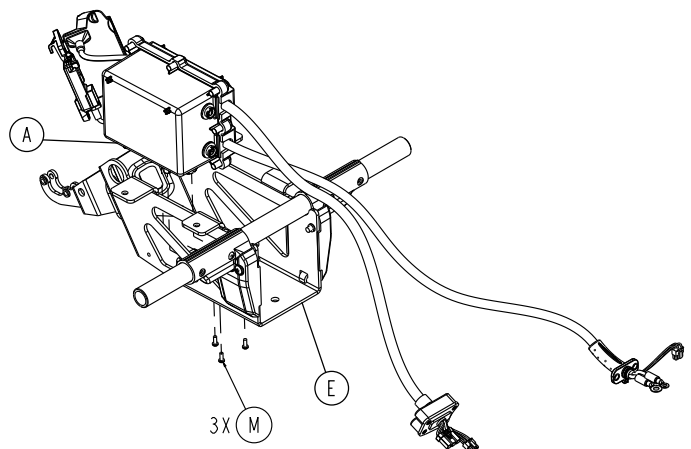


Figure 42 – Remove the HBC enclosure assembly screws

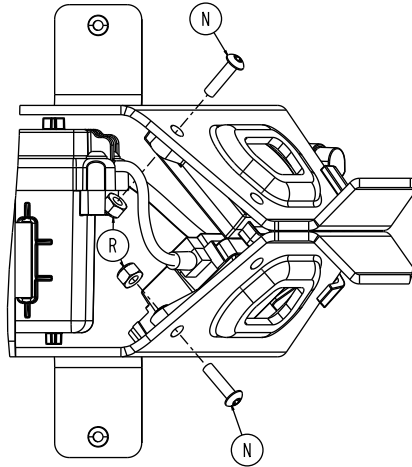
7. Using a T25 Torx driver and a 3/8" combination wrench, remove the button head cap screw (N) and Fiberlock nut (R) that secure the wireless module, if equipped, and the NFMIC module to the cot, if equipped (Figure 43). Save the screw and nut.
8. Unhook the wireless and NFMIC module(s), if equipped, from the frame and drop the wireless module out of the bottom of the cot.

9. Lift the NFMIC module and HBC enclosure assembly up through the seat section to access the screws that secure the HBC enclosure assembly top cover.

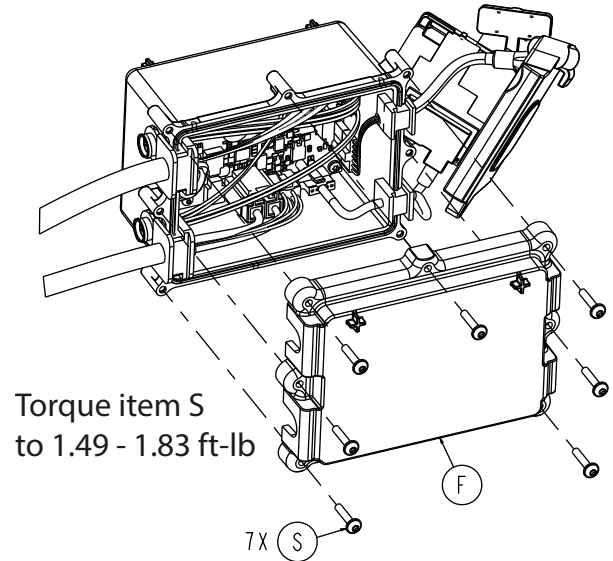
**Note** - Keep the NFMIC module tight against the HBC enclosure assembly so you can remove them together.

10. Using a T20 Torx driver, remove the seven round washer head tapping screws (S) that secure the top cover (F) to the HBC enclosure assembly (Figure 44). Remove and save the top cover. Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 1.49 - 1.83 ft-lb when you reinstall.



**Figure 43 – Remove the wireless module screw and nut**



**Figure 44 – Remove the HBC top cover screws**

11. Unplug the wireless module cable from J13 connector on the HBC board. Discard the wireless module.

**Note** - Use an ESD system when you unplug the cable connectors.

12. Reverse steps to reinstall.

**Note** - Push the rubber grommets from the cables into the HBC enclosure assembly pockets.

13. Using the 5212-502-003 wireless configuration tool and other required items, configure the wireless module for the required networks.
14. Verify proper operation before you return the product to service.

## Near field module inductive charger (NFMIC) replacement

---

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

### Tools required:

- T20 Torx driver
- T25 Torx driver
- 3/8" combination wrench
- Torque screwdriver (in-lb)
- ESD system

**Procedure:**

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Remove the cot battery.

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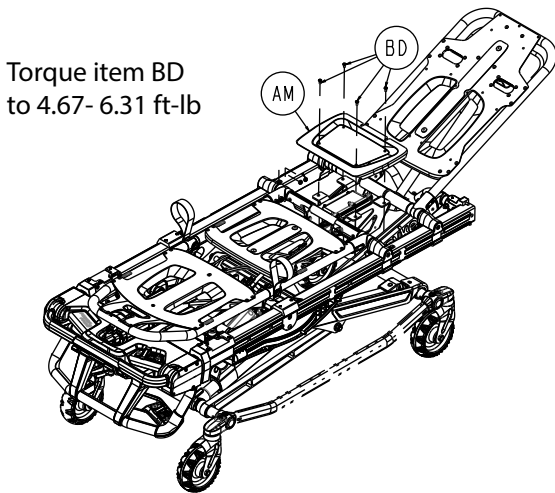
**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

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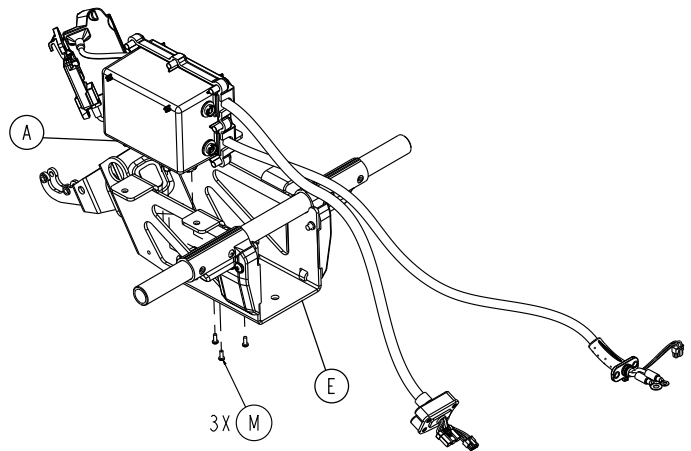
5. Using a T25 Torx driver, remove the four pan head thread rolling screws (BD) that secure the seat skin (AM) to the cot (Figure 45). Remove and save the seat skin. Save the screws.

**Note** - Using a torque screwdriver, torque the pan head thread rolling screws to 4.67 - 6.31 ft-lb when you reinstall.

6. Using a T20 Torx driver, remove the three pan head tapping screws (M) that secure the HBC enclosure assembly (A) to the birdcage (E) (Figure 46). Save the screws.



**Figure 45 – Remove the seat skin screws**



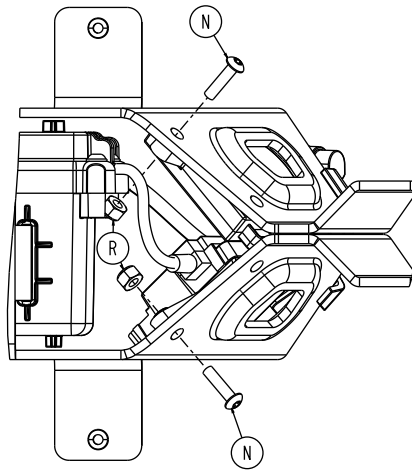
**Figure 46 – Remove the HBC enclosure assembly screws**

7. Using a T25 Torx driver and a 3/8" combination wrench, remove the button head cap screw (N) and Fiberlock nut (R) that secure the wireless module, if equipped, and the NFMIC module to the cot, if equipped (Figure 47). Save the screw and nut.
8. Unhook the wireless and NFMIC module(s), if equipped, from the frame and drop the wireless module from the bottom of the cot.
9. Lift the NFMIC module and HBC enclosure assembly up through the seat section to access the screws that secure the HBC top cover.

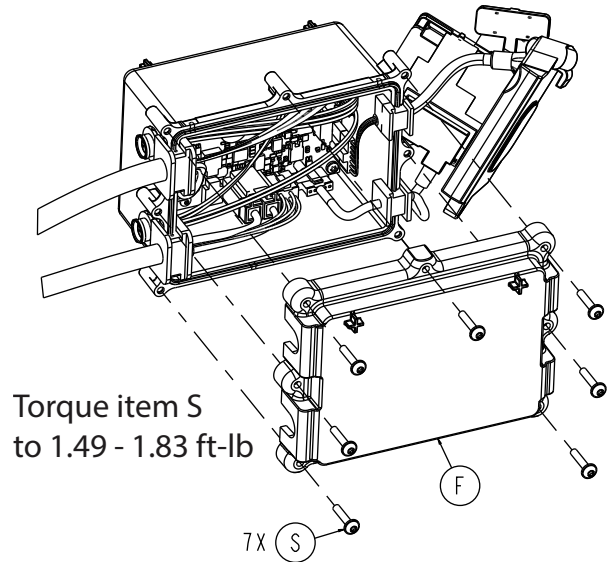
**Note** - Keep the NFMIC module tight against the HBC enclosure assembly so you can remove them together.

10. Using a T20 Torx driver, remove the seven round washer head tapping screws (S) that secure the top cover (F) to the HBC enclosure assembly (Figure 48). Remove and save the top cover. Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 1.49 - 1.83 ft-lb when you reinstall.



**Figure 47 – Remove the wireless module screw and nut**



**Figure 48 – Remove the HBC top cover screws**

11. Unplug the NFMIC module cable from J10 connector on the HBC board.

**Note** - Use an ESD system when you unplug the cable connectors.

12. Reverse steps to reinstall.

**Note** - Push the rubber grommets from the cables into the HBC enclosure assembly pockets.

13. Verify proper operation before you return the product to service.

## Regulatory notes

- The NFMIC module is limited to use in devices manufactured by Stryker.
- The NFMIC module is never connected to AC Mains.
- The NFMIC module is labeled with the FCC and IC IDs, which are visible when the module is installed according to the installation instructions provided.

### United States – Federal Communication Commission (FCC)

FCC ID: Z7A-6507

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Stryker could void the user's authority to operate the equipment.

### Canada – Innovation, Science and Economic Development (ISED)

IC: 4919E-6507

This device complies with Innovation, Science, and Economic Development Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:



1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## Wheel replacement

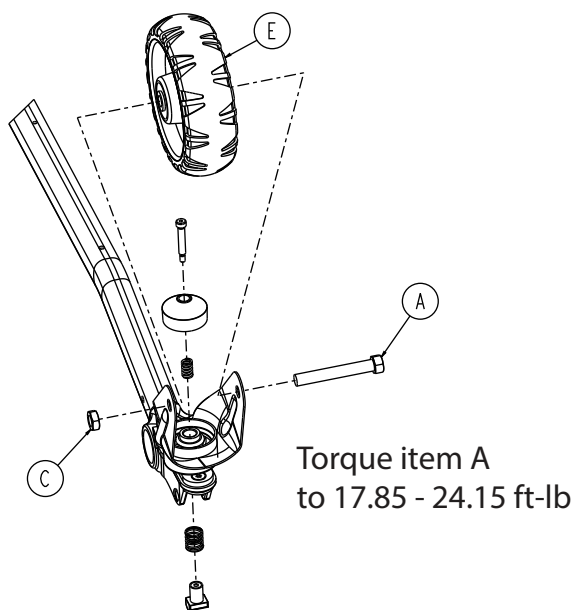
### Tools required:

- Sawhorse (2)
- Ratchet
- 5/8" combination wrench
- 11/16" socket wrench
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Using two sawhorses:
  - a. Foot end – place the cot in the highest height position. Lift and support the foot end below the foot section.
  - b. Head end – place the cot in the mid-height position. Extend and lock the head section, then lift and support the head section.
4. Using a ratchet, 11/16" socket wrench, and 5/8" combination wrench, remove the hex head cap screw (A) and toplock hex thin nut (C) that secure the 6 inch molded wheel assembly (E) to the caster horn (Figure 49). Remove and discard the wheel. Save the screw and nut.

**Note** - Using a torque wrench, torque the hex head cap screw to 17.85 - 24.15 ft-lb when you reinstall.



**Figure 49 – Transport wheel components**

5. Reverse steps to reinstall.
6. Verify proper operation before you return the product to service.

## Caster horn replacement (non-brake base tube)

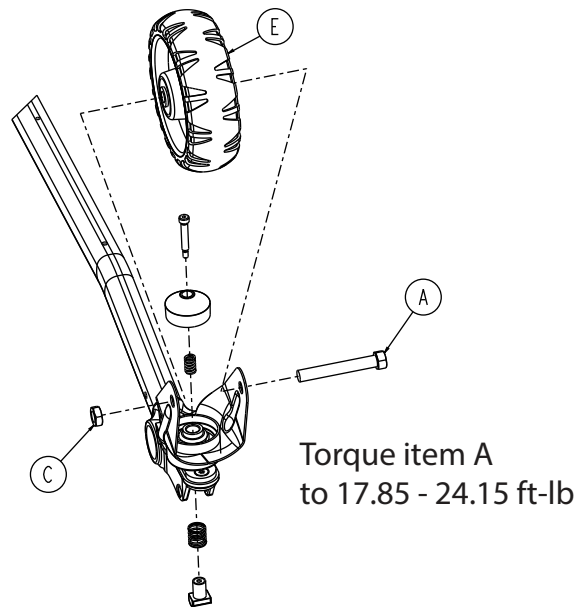
### Tools required:

- Sawhorse (2)
- 5/8" combination wrench
- 1" combination wrench
- Ratchet
- 11/16" socket wrench
- T30 Torx driver
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Using two sawhorses:
  - a. Foot end – place the cot in the highest height position. Lift and support the foot end below the foot section.
  - b. Head end – place the cot in the mid-height position. Extend and lock the head section, then lift and support the head section.
4. Using a ratchet, 11/16" socket wrench, and 5/8" combination wrench, remove the hex head cap screw (A) and toplock hex thin nut (C) that secure the 6 inch molded wheel assembly (E) to the caster horn (Figure 50). Remove and discard the wheel. Save the screw and nut.

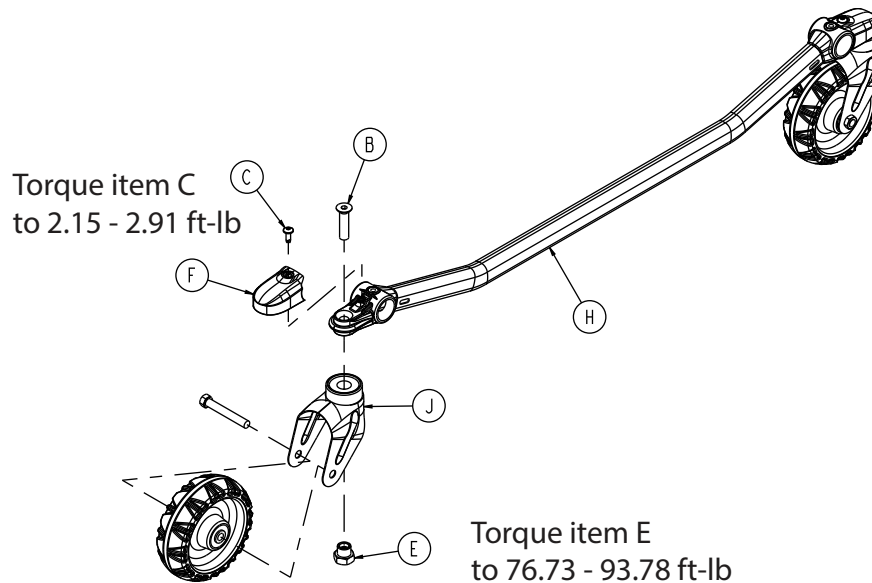
**Note** - Using a torque wrench, torque the hex head cap screw to 17.85 - 24.15 ft-lb when you reinstall.



**Figure 50 – Transport wheel components**

5. Using a T30 Torx driver, remove the pan head machine screw (C) that secures the caster mount cover (F) to the base tube (Figure 51). Remove and save the caster mount cover. Save the screw.
6. Using a 1" combination wrench, remove the flat head/hex socket bolt (B) and caster nut (E) that secure the caster horn (J) to the base tube weldment (H) (Figure 51). Remove and discard the caster horn. Save the bolt and nut.

**Note** - Using a torque wrench, torque the caster nut to 76.73 - 93.78 ft-lb when you reinstall.



**Figure 51 – Caster horn components (non-brake base tube)**

7. Reverse steps to reinstall.
8. Verify proper operation before you return the product to service.

## Caster horn and base tube replacement (brake base tube)

### Tools required:

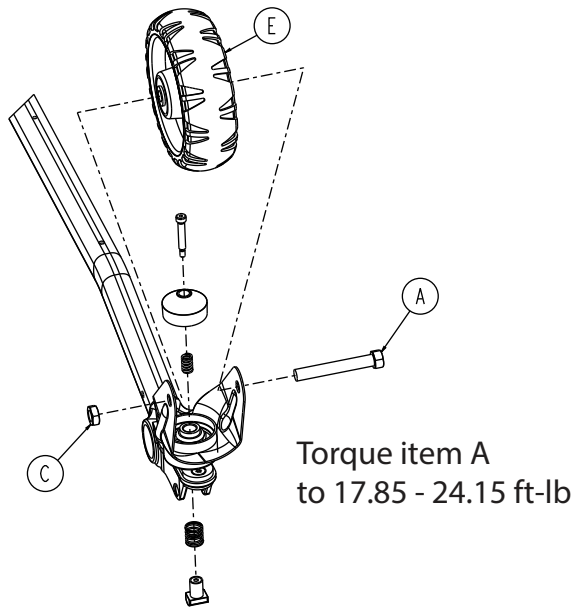
- Sawhorse (2)
- Ratchet
- 5/8" combination wrench
- 3/8" combination wrench
- 11/16" socket wrench
- Slotted screwdriver
- T27 Torx driver
- Torque wrench (in-lb)

### Procedure:

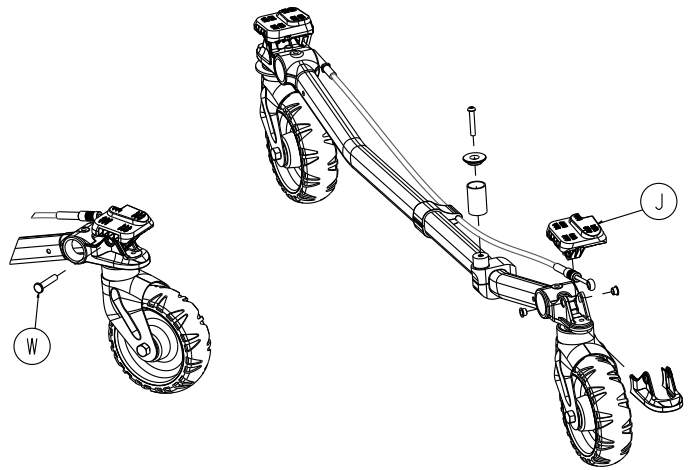
1. Apply the brakes.
2. Remove the mattress from the cot.
3. Using two sawhorses:
  - a. Foot end – place the cot in the highest height position. Lift and support the foot end below the foot section.
  - b. Head end – place the cot in the mid-height position. Extend and lock the head section, then lift and support the head section.
4. Using a ratchet, 11/16" socket wrench, and 5/8" combination wrench, remove the hex head cap screw (A) and toplock hex thin nut (C) that secure the 6 inch molded wheel assembly (E) to the caster horn (Figure 52). Remove and discard the wheel. Save the screw and nut.

**Note** - Using a torque wrench, torque the hex head cap screw to 17.85 - 24.15 ft-lb when you reinstall.

5. Using a slotted screwdriver, remove the slic pin (W) from the brake pedal (J) that secures the cable (on the side that goes through cross-tube) (Figure 53). Save the slic pin.



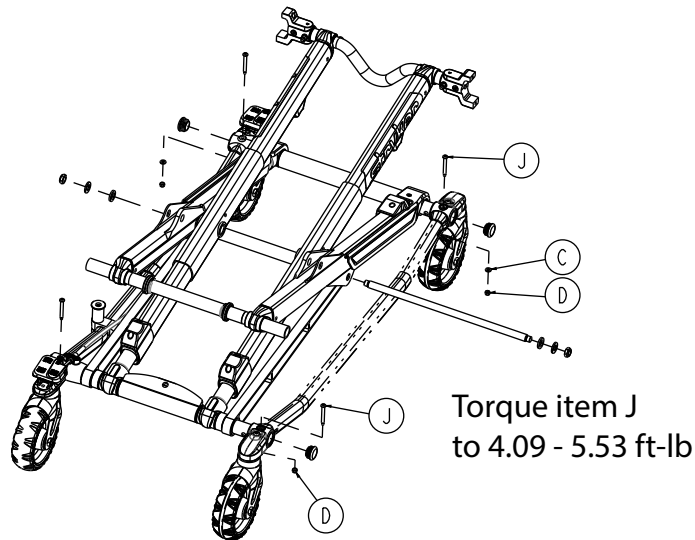
**Figure 52 – Transport wheel components**



**Figure 53 – Brake pedal components**

6. Carefully flex the cable out of the pedal.
7. Unthread the cable end and hold the cable to the cross tube to remove the nut. Pull the cable through the cross tube and remove the base tube from the cot. Save the nut.
8. Using a T27 Torx driver and a 3/8" combination wrench, remove the two caster mount bolts (J), washers (C), and fiberlock nuts (D) that secure the base tube assembly to the cot (Figure 54). Save all parts.

**Note** - Using a torque wrench, torque the caster mount bolts to 4.09 - 5.53 ft-lb when you reinstall.



**Figure 54 – Remove the base tube assembly**

9. Remove and discard the base tube assembly.
10. Reverse steps to reinstall.
11. Verify proper operation before you return the product to service.

## X-frame base leg guard replacement

### Tools required:

- T25 Torx driver
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Using a T25 Torx driver, remove the two button head cap screws (BD) that secure the roller cover (AW, AY) to the outer lift tube (Figure 55). Remove and save the roller cover. Save the screws.

**Note** - Using a torque wrench, torque the button head cap screws to 1.63 - 2.21 ft-lb when you reinstall.

5. Using a T25 Torx driver, remove the button head cap screw (BD) that secures the base leg guard (BA, BB) to the inner lift tube. Remove and discard the base leg guard. Save the screw.

**Note** - Using a torque wrench, torque the button head cap screw to 1.63 - 2.21 ft-lb when you reinstall.

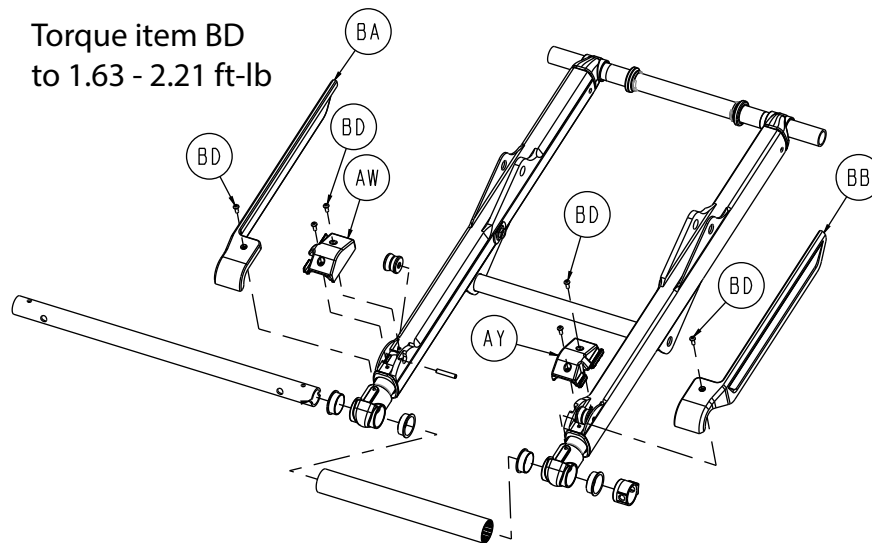


Figure 55 – Lift assembly components

6. Reverse steps to reinstall.
7. Verify proper operation before you return the product to service.

## MTS sensor replacement

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
- Do not place unprotected circuit boards on the floor.

### Tools required:

- T25 Torx driver
- Pick
- ESD system
- Torque screwdriver (in-lb)

**Procedure:**

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

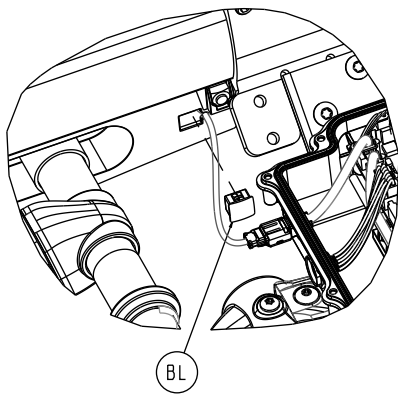
---

5. Raise the left XPS siderail to the up and locked position, if equipped.
6. Using a pick, remove the hole plug (BL) from the back of the slider block (Figure 56). Save the hole plug.
7. Using a pick, unplug the connector for the MTS sensor from the foot end box.

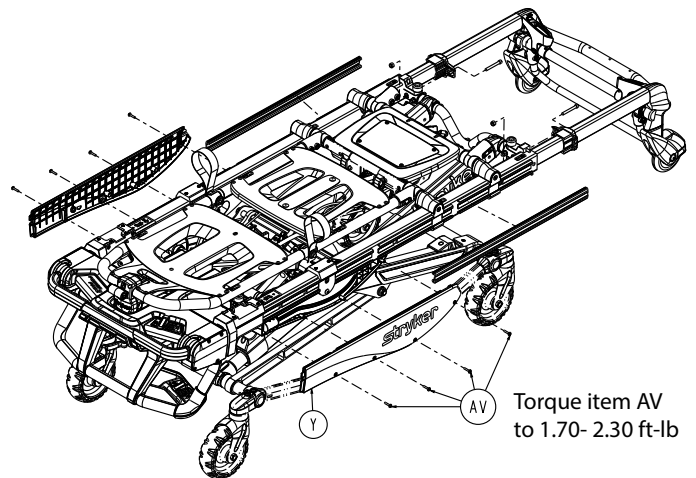
**Note** - Use an ESD system when you unplug the cable connectors.

8. Using a T25 Torx driver, remove the four round washer head tapping screws (AV) that secure the slider block cover (Y) to the slider block (Figure 57). Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 1.70 - 2.30 ft-lb when you reinstall.

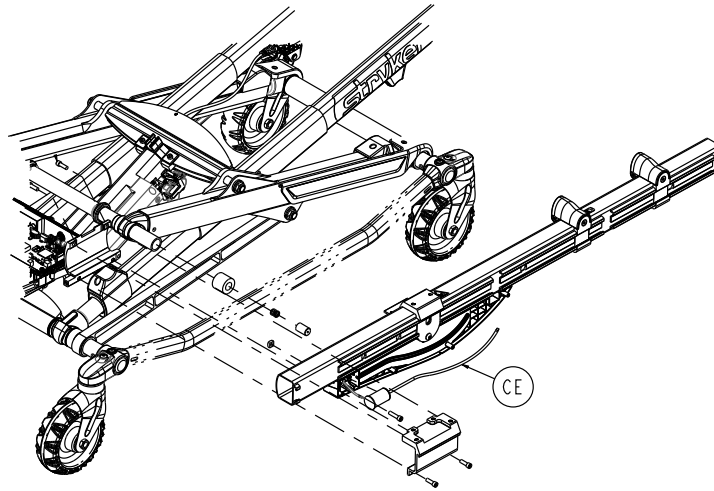


**Figure 56 – Remove the hole plug**



**Figure 57 – Remove the slider block cover screws**

9. Pivot the head end down and out to remove the slider block cover. Save the cover.
10. Remove the MTS sensor (CE) (Figure 58).



**Figure 58 – Remove the MTS sensor**

11. Reverse steps to reinstall.

---

**WARNING** - Do not allow the sensor lead to bend when you remove the lead from the box or install the lead. The MTS sensor arrives in a custom box to protect the sensor lead from bending.

---

12. Calibrate the cot. See *Cot calibration* (page 40).

13. Verify proper operation before you return the product to service.

## Cot foot end interface board (FEIB) replacement

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

### Tools required:

- T27 Torx driver
- T20 Torx driver
- Bungee cord
- Torque screwdriver (in-lb)
- ESD system

### Procedure:

1. Remove the mattress from the cot.
2. Place the product in the highest height position.
3. Raise and lock the foot section to the highest position. Fold the foot section toward the backrest and secure with the bungee cord.
4. Extend and lock the foot section assembly.
5. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

6. Using a T27 Torx driver, remove the two button head cap screws (CD) that secure the Gatch bumper housing (CA) to the hitch bracket (Figure 59). Remove and save the Gatch bumper housing. Save the screws. Repeat on the other side.

**Note** - Using a torque screwdriver, torque the button head cap screws to 3.91 - 5.29 ft-lb when you reinstall.

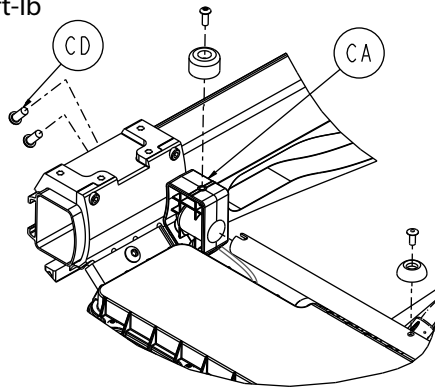
7. Unscrew the FEIB status external module coil cable assembly from the bottom FEIB enclosure. Fold the cable assembly toward the foot end of the cot.

**Note** - Full seat the cable connector when you reinstall.

8. Using a T20 Torx driver, remove the thirteen round washer head tapping screws (AV) that secure the top FEIB enclosure (AL) to the bottom FEIB enclosure (Figure 60). Save the screws.

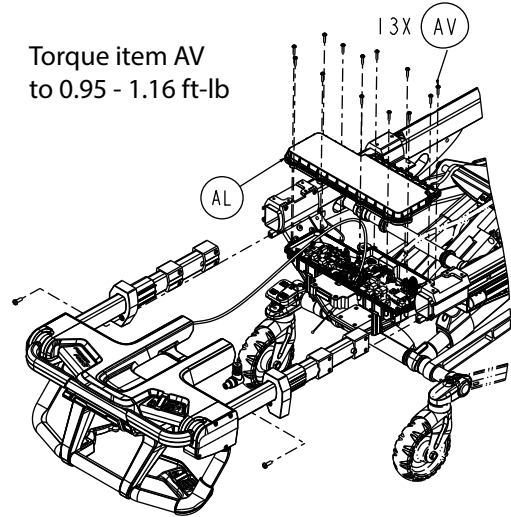
**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 0.95 - 1.16 ft-lb when you reinstall.

Torque item CD  
to 3.91 - 5.29 ft-lb



**Figure 59 – Remove the Gatch bumper housing**

Torque item AV  
to 0.95 - 1.16 ft-lb

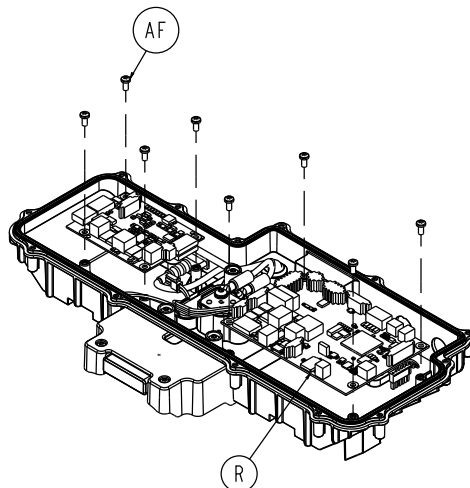


**Figure 60 – Remove the FEIB enclosure screws**

9. Remove the top FEIB enclosure from the bottom FEIB enclosure.
10. Unplug all cables from the FEIB board.

**Note** - Use an ESD system when you unplug the cable connectors.

11. Using a T20 Torx driver, remove the four pan head tapping screws (AF) that secure the cot FEIB board (R) to the bottom FEIB enclosure (Figure 61). Save the screws.



**Figure 61 – Remove the FEIB board screws**

12. Remove and discard the cot FEIB board.
13. Reverse steps to reinstall.
14. Calibrate the cot. See *Cot calibration* (page 40).



15. Verify proper operation before you return the product to service.

## Battery charger board replacement

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### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

### Tools required:

- T27 Torx driver
- T20 Torx driver
- Bungee cord
- Torque screwdriver (in-lb)
- ESD system

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise and lock the foot section to the highest position. Fold the foot section toward the backrest and secure with the bungee cord.
5. Extend and lock the foot section assembly.
6. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

7. Using a T27 Torx driver, remove the two button head cap screws (CD) that secure the Gatch bumper housing (CA) to the hitch bracket (Figure 62). Remove and save the Gatch bumper housing. Save the screws. Repeat on the other side.

**Note** - Using a torque screwdriver, torque the button head cap screws to 3.91 - 5.29 ft-lb when you reinstall.

8. Unscrew the FEIB status external module coil cable assembly from the bottom FEIB enclosure. Fold the cable assembly toward the foot end of the cot.

**Note** - Full seat the cable connector when you reinstall.

9. Using a T20 Torx driver, remove the thirteen round washer head tapping screws (AV) that secure the top FEIB enclosure (AL) to the bottom FEIB enclosure (Figure 63). Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 0.95 - 1.16 ft-lb when you reinstall.

Torque item CD  
to 3.91 - 5.29 ft-lb

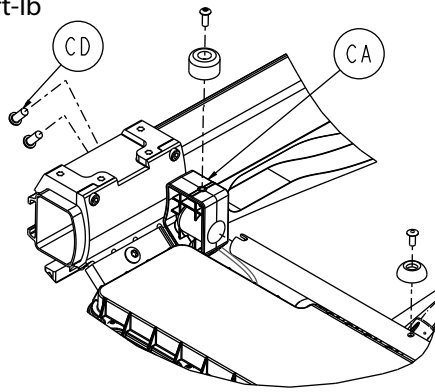


Figure 62 – Remove the Gatch bumper housing

Torque item AV  
to 0.95 - 1.16 ft-lb

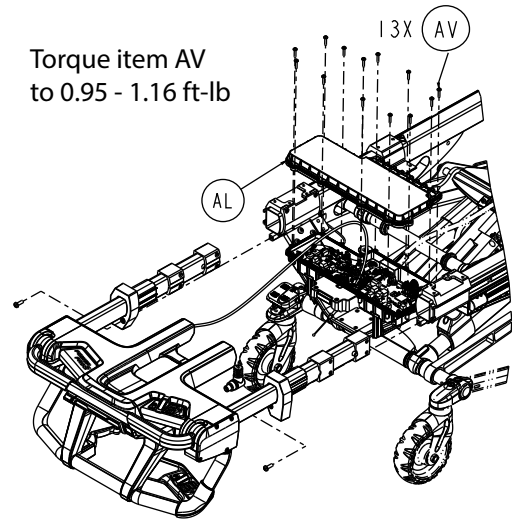


Figure 63 – Remove the FEIB enclosure screws

10. Remove the top FEIB enclosure from the bottom FEIB enclosure.

11. Unplug all cables from the battery charger board.

**Note** - Use an ESD system when you unplug the cables.

12. Using a T20 Torx driver, remove the four pan head tapping screws (AF) that secure the cot FEIB board (R) to the bottom FEIB enclosure (Figure 64). Save the screws.

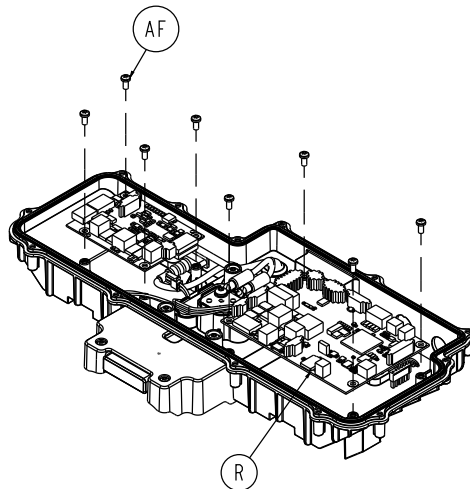


Figure 64 – Remove the FEIB board screws

13. Remove and discard the battery charger board.

14. Reverse steps to reinstall.

15. Verify proper operation before you return the product to service.

## Inner tube (X-frame) replacement - foot end

**Note** - Always replace both right and left sides of the head end or foot end inner lift tubes, even if only one is bent. This will allow the lift system to operate properly and prevent further damage to the product.

**Tools required:**

- T25 Torx driver
- T27 Torx driver
- 3/8" combination wrench
- Rubber hammer
- Small punch
- Torque wrench (in-lb)

**Procedure:**

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise the backrest and foot section to the highest position.
5. Make sure that the head extension is retracted and locked.
6. Raise the cot from the foot end. Tilt the cot up so it rests on the backrest.

---

**CAUTION** - Always use assistance from another person when you flip the cot onto the backrest.

---

7. Work from the foot end with the damaged tube (left or right).
8. Using a T25 Torx driver, remove the two button head cap screws (BD) that secure the roller cover (AW, AY) to the outer lift A-frame weldment (AP) (Figure 65). Save the screws.

**Note** - Using a torque wrench, torque the button head cap screws to 1.63 - 2.21 ft-lb when you reinstall.

9. Using a T27 Torx driver and a 3/8" combination wrench, remove the caster mount bolt (J) and fiberlock nut (D) that secure the outer base tube (Figure 66). Save the bolt and nut. Repeat on the head end.

**Note** - Using a torque wrench, torque the caster mount bolt to 4.09 - 5.53 ft-lb when you reinstall.

10. Using a rubber hammer, tap out on the foot end and head end of the outer base tube. Remove and save the outer base tube.

**Note** - Remove and save the base spacers from the foot and head end cross tubes when you repair the non-brake side of the cot.

11. Using a rubber hammer, tap out on the opposite base tube to move the base cross tubes out of the inner tube. Separate the X-frame supports and remove the cross tube spacer from the foot end only. Save all parts.
12. Using a small punch, push the dowel pin (BG) through the external roller assembly (AN) (Figure 65). Remove and save the dowel pin and external roller assembly.

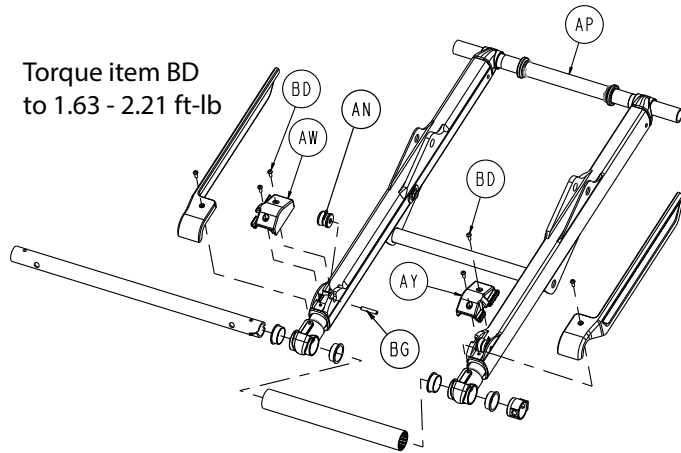


Figure 65 – Lift assembly components

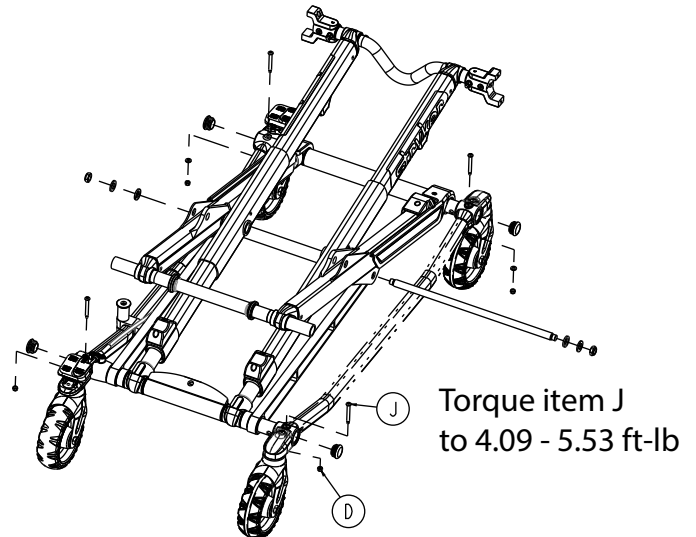


Figure 66 – Remove the foot end bolt and nut

13. Grasp the inner tube to remove it from the outer tube. Discard the inner tube.
14. Reverse steps to reinstall.
15. Verify proper operation before you return the product to service.

## Inner tube (X-frame) replacement - head end

**Note** - Always replace both right and left sides of the head end or foot end inner lift tubes, even if only one is bent. This will allow the lift system to operate properly and prevent further damage to the product.

### Tools required:

- T25 Torx driver
- T27 Torx driver
- 3/8" combination wrench
- Rubber hammer
- Small punch
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Raise the backrest and foot section to the highest position.
5. Make sure that the head extension is retracted and locked.
6. Raise the cot from the foot end. Tilt the cot up so it rests on the backrest.

---

**CAUTION** - Always use assistance from another person when you flip the cot onto the backrest.

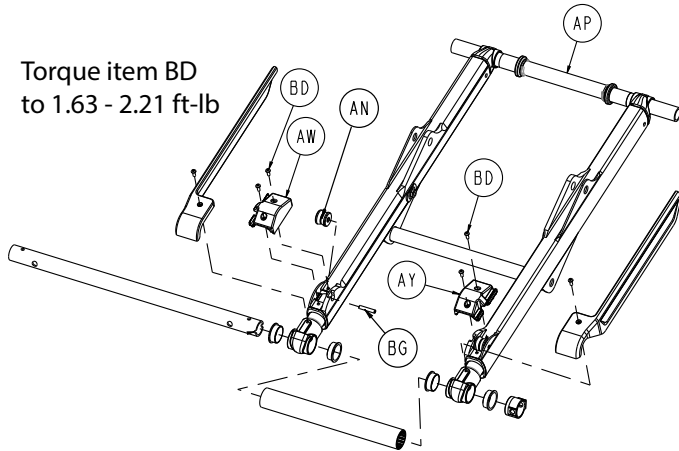
---

7. Work from the head end with the damaged tube (left or right).
8. Using a T25 Torx driver, remove the two button head cap screws (BD) that secure the roller cover (AW, AY) to the outer lift A-frame weldment (AP) (Figure 67). Save the screws.

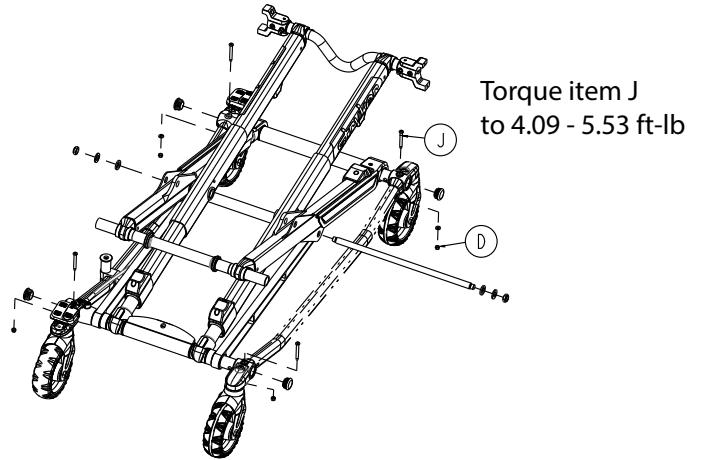
**Note** - Using a torque wrench, torque the button head cap screws to 1.63 - 2.21 ft-lb when you reinstall.

- Using a T27 Torx driver and a 3/8" combination wrench, remove the caster mount bolt (J) and fiberlock nut (D) that secure the outer base tube (Figure 68). Save the bolt and nut. Repeat on the foot end.

**Note** - Using a torque wrench, torque the caster mount bolt to 4.09 - 5.53 ft-lb when you reinstall.



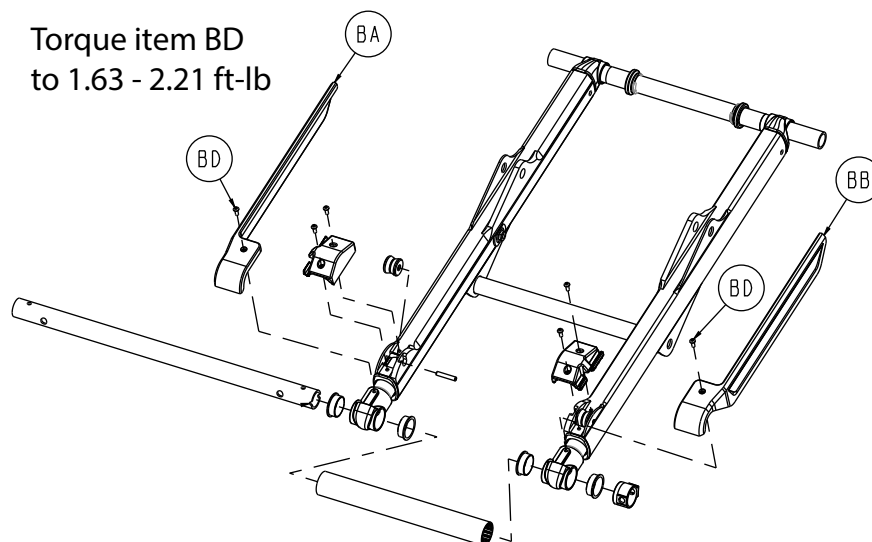
**Figure 67 – Lift assembly components**



**Figure 68 – Remove the head end bolt and nut**

- Using a rubber hammer, tap out on the foot end and head end of the outer base tube. Remove and save the outer base tube.
- Using a rubber hammer, tap out on the opposite base tube to move the base cross tubes out of the inner tube. Separate the X-frame supports and remove the cross tube spacer from the foot end only. Save all parts.
- Using a small punch, push the dowel pin (BG) through the external roller assembly (AN) (Figure 67). Remove and save the pin and roller assembly.
- Grasp the inner tube to remove it from the outer tube. Discard the inner tube.
- Using a T25 Torx driver, remove the screw (BD) that secures the base leg guard (BA, BB) (Figure 69). Remove and save the base leg guard. Save the screw.

**Note** - Guide the base leg guard through the guide bracket on the outer tube when you install the supplied inner tube.



**Figure 69 – Remove the base leg guard**

- Reverse steps to reinstall.
- Verify proper operation before you return the product to service.

## Inductive power cable assembly replacement

### Tools required:

- T40 Torx driver
- 5/32" hex wrench
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Remove the cot battery.

---

**CAUTION** - Always use assistance from another person when you flip the cot onto the backrest.

---

5. Pull the foot section out.
6. Unplug the inductive power cable from the foot section box.
7. Using a T40 Torx driver, remove the four button head cap screws that secure the foot end hitch assembly. Remove and save the foot end hitch assembly and cover. Save the screws.
8. Using a 5/32" hex wrench, remove the two socket head shoulder screws that secure the hitch body to the foot end hitch inductive support. Remove and save the hitch body. Save the screws.

**Note** - Using a torque wrench, torque the socket head shoulder screws to 3.90 - 4.76 ft-lb when you reinstall.

9. Remove and discard the inductive power cable assembly.
10. Reverse steps to reinstall.
11. Verify proper operation before you return the product to service.

## User interface button replacement

Follow this procedure to replace the upper or lower UI button.

### Tools required:

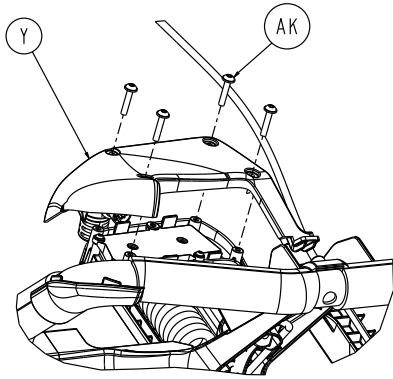
- T10 Torx driver
- T20 Torx driver

### Procedure:

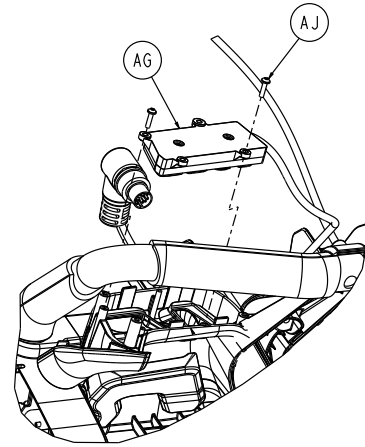
1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the product in the highest height position.
4. Remove the cot battery.

**Note** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

5. Using a T20 Torx driver, remove the four round washer head tapping screws (AK) that secure the back UI cover (Y) to the button housing (Figure 70). Save the screws and cover.
6. Using a T10 Torx driver, remove the two round washer head tapping screws (AJ) that secure the UI cable assembly (AG) to the button housing (Figure 71). Save the screws and cable assembly.



**Figure 70 – Remove the back UI button screws**

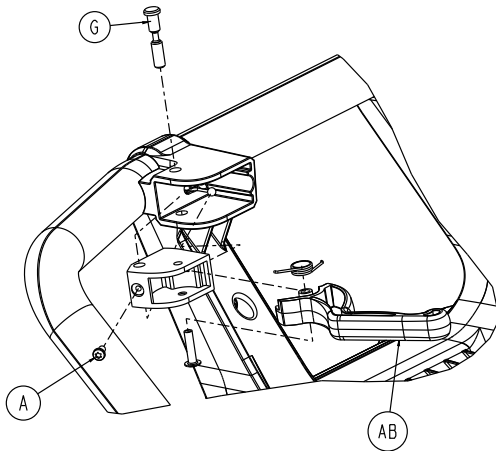


**Figure 71 – Remove the UI cable assembly and screws**

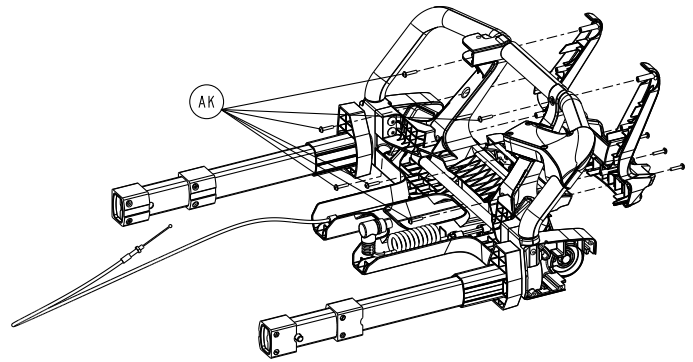
7. Using a T20 Torx driver, loosen the manual release pivot pin (G) on the quick release handle (AB) (Figure 72). Remove and save the pin and quick release handle assembly.

**Note** - Use caution when you remove the manual release handle. If you pull the manual release cable, the cot could lower during service.

8. Using a T20 Torx driver, remove the six round washer head tapping screws (AK) from the back of the foot end housing (Figure 73). Save the screws.



**Figure 72 – Remove the manual release pivot pin**



**Figure 73 – Remove the foot end housing screws**

9. Using a T20 Torx driver, remove the three round washer head tapping screws (AK) from the foot end enclosure (S) (Figure 74). Remove the front foot end housing. Save all parts.

10. Using a T10 Torx driver, remove the five round washer head tapping screws (AJ) that secure the light module cable assembly (AF) (Figure 75). Remove and save the light module cable assembly. Save the screws.

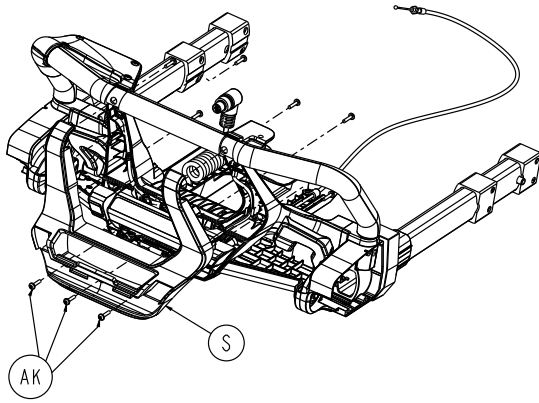


Figure 74 – Remove the foot end enclosure

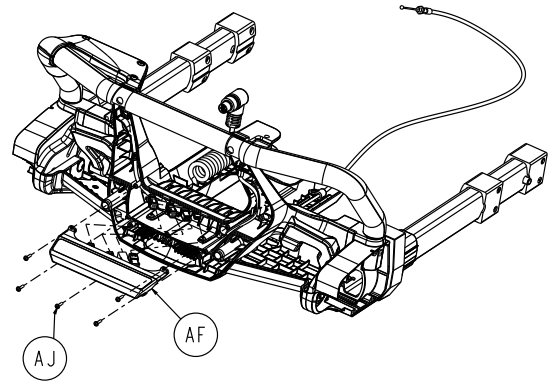


Figure 75 – Remove the light module cable assembly

11. Unplug the user interface cable connection to replace the button. Discard the cable.
12. Reverse steps to reinstall.
13. Make sure that the foot end button and latch operate.
14. Verify proper operation before you return the product to service.

## Power and comm cable replacement

---

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

### Tools required:

- T15 Torx driver
- T20 Torx driver
- T25 Torx driver
- T27 Torx driver
- 3/8" combination wrench
- Torque screwdriver (in-lb)
- ESD system

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Raise the product to the highest height position.
4. Raise and lock the foot section in the highest position.
5. Extend and lock the foot section assembly.
6. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

7. Using a T27 Torx driver, remove the two button head cap screws (CD) that secure the Gatch bumper housing (CA) to the hitch bracket (Figure 76). Remove and save the Gatch bumper housing. Save the screws. Repeat on the other side.

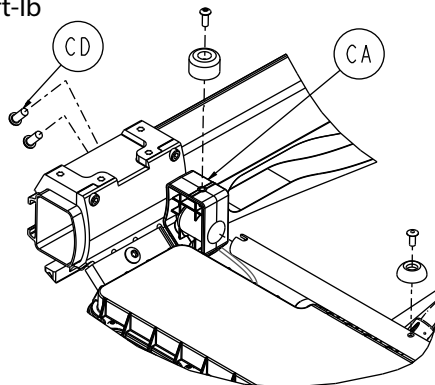
**Note** - Using a torque screwdriver, torque the screws to 3.91 - 5.29 ft-lb when you reinstall.



8. Unscrew the FEIB status external module coil cable assembly from the bottom FEIB enclosure. Fold the cable assembly toward the foot end of the cot.
9. Using a T20 Torx driver, remove the thirteen round washer head tapping screws (AV) that secure the top FEIB enclosure (AL) to the bottom FEIB enclosure (Figure 77). Save the screws.

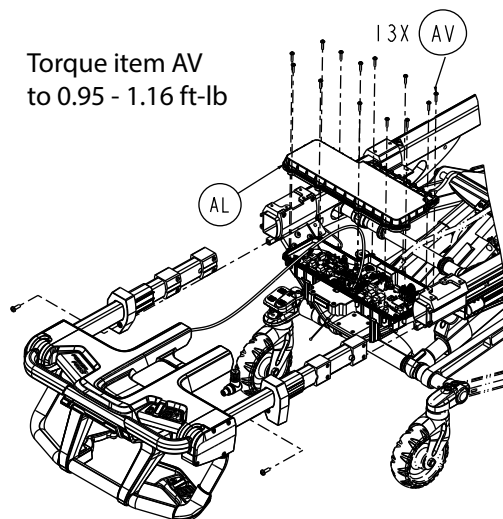
**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 0.95 - 1.16 ft-lb when you reinstall.

Torque item CD  
to 3.91 - 5.29 ft-lb



**Figure 76 – Remove the Gatch bumper housing**

Torque item AV  
to 0.95 - 1.16 ft-lb



**Figure 77 – Remove the FEIB enclosure screws**

10. Remove the top FEIB enclosure from the bottom FEIB enclosure.
11. Using a T25 Torx driver, remove the two pan head tapping screws that secure the system bus cable assembly to the back of the FEIB assembly. Save the screws.
12. Using a T27 Torx driver, remove the pan head machine screw that secures the negative wire connection to the FEIB grounding block. Save the screw.
13. Using a T25 Torx driver, remove the pan head machine screw that secures the positive wire connection to the FEIB grounding block. Save the screw.
14. Remove the two other connections from the cot FEIB PCBA to the system bus cable assembly.
15. Remove the system bus cable assembly from the back of the bottom FEIB enclosure.

**Note**

- Always use care when you lift and support the cot. The cot may move while you tip the cot onto the head section.
- Retract and lock the head section and make sure that the Fowler is in the up position before you tip the cot.

16. Stand at the foot end and tilt the cot onto its head section.
17. Using a T20 Torx driver, remove the five round washer head tapping screws (AV) that secure the actuator end cap (AD) to the hydraulic assembly electrical box (Figure 78). Save the screws and end cap.

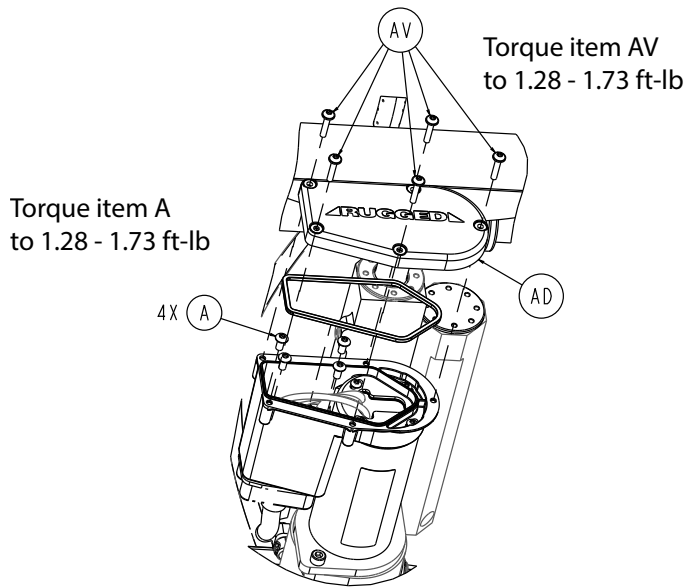
**Note** - Using a torque wrench, torque the round washer head tapping screws to 1.28 - 1.73 ft-lb when you reinstall.

18. Unlock and unplug both cable connections in the electrical box.
19. Using a T15 Torx driver, remove the four button head torx screws (A) that secure the lift motor cable assembly to the actuator cover (Figure 78). Save the screws.

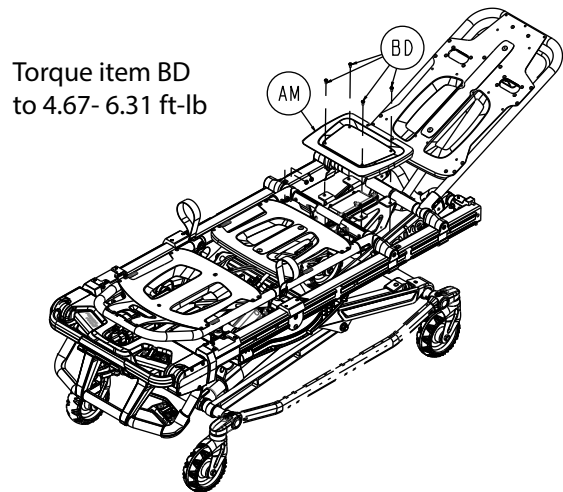
**Note** - Using a torque wrench, torque the button head torx screws to 1.28 - 1.73 ft-lb when you reinstall.

20. Remove the lift motor cable assembly through the back of the electrical box.
21. Stand at the foot end and lower the cot back onto the four wheels.
22. Using a T25 Torx driver, remove the four pan head thread rolling screws (BD) that secure the seat skin (AM) to the cot (Figure 79). Remove and save the seat skin. Save the screws.

**Note** - Using a torque wrench, torque the pan head thread rolling screws to 4.67 - 6.31 ft-lb when you reinstall.

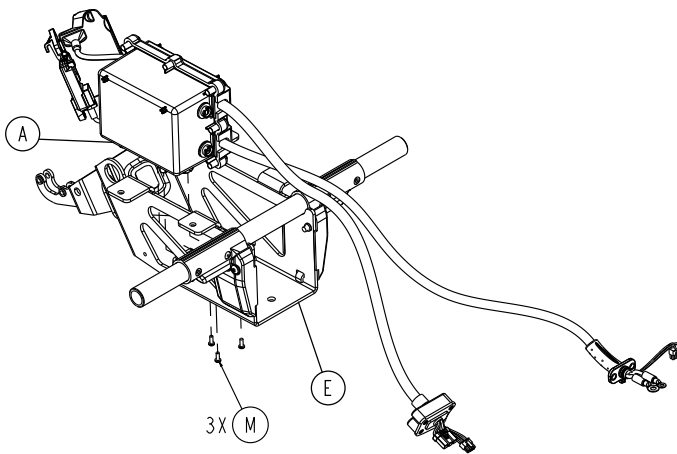


**Figure 78 – Lift motor cable assembly components**

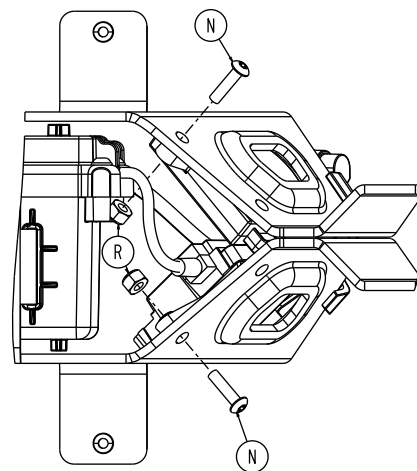


**Figure 79 – Remove the screws and seat skin**

23. Disconnect the two quick disconnect connections (HBC strain gauge external cable assembly and the solenoid/transducer external cable assembly) from the HBC enclosure assembly.
24. Using a T25 Torx driver, remove the three pan head tapping screws (M) that secure the HBC enclosure assembly (A) to the bird cage (E) (Figure 80). Save the screws.
25. Using a T25 Torx driver and a 3/8" combination wrench, remove the button head cap screw (N) and Fiberlock nut (R) that secure the wireless module, if equipped, and the NFMIC module to the cot, if equipped (Figure 81). Save the screw and nut.



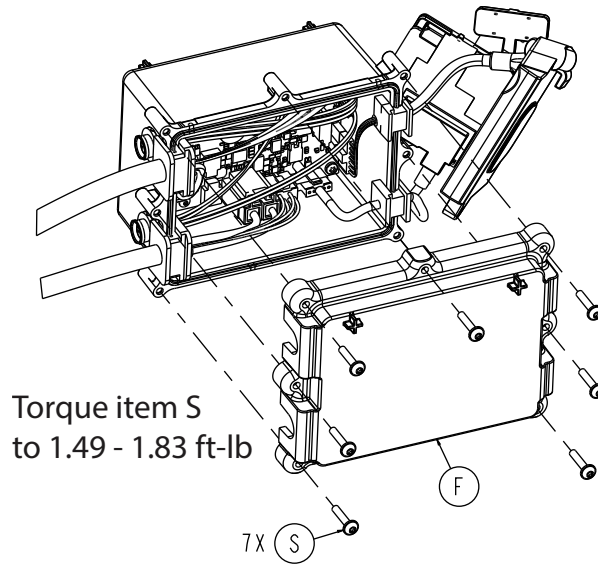
**Figure 80 – Remove the HBC enclosure assembly screws**



**Figure 81 – Remove the wireless module screw and nut**

26. Lift the HBC enclosure assembly up through the seat section to access the screws that secure the HBC top cover.
27. Using a T20 Torx driver, remove the seven round washer head tapping screws (S) that secure the top cover (F) to the HBC enclosure assembly (Figure 82). Remove and save the top cover. Save the screws.

**Note** - Using a torque screwdriver, torque the screws to 1.49 - 1.83 ft-lb when you reinstall.



**Figure 82 – Remove the HBC top cover screws**

28. Unplug the cable connectors from the HBC board.

**Note** - Use an ESD system when you unplug the cable connectors.

29. Remove HBC enclosure and cable assemblies.

30. Reverse steps to reinstall.

**Note**

- See *Cot assembly, common components* (page 98) for cable routing views.
- Push the rubber grommets from the cables into the HBC enclosure assembly pockets.

31. Calibrate the cot. See *Cot calibration* (page 40).

32. Verify proper operation before you return the product to service.

## HBC enclosure and cable replacement

---

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

**Tools required:**

- |                   |                              |
|-------------------|------------------------------|
| • T15 Torx driver | • 3/8" combination wrench    |
| • T20 Torx driver | • Torque screwdriver (ft-lb) |
| • T25 Torx driver | • ESD system                 |
| • T27 Torx driver |                              |

**Procedure:**

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Raise the product to the highest height position.

4. Raise and lock the foot section in the highest position.
5. Extend and lock the foot section assembly.
6. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

7. Using a T27 Torx driver, remove the two button head cap screws (CD) that secure the Gatch bumper housing (CA) to the hitch bracket (Figure 83). Remove and save the Gatch bumper housing. Save the screws. Repeat on the other side.

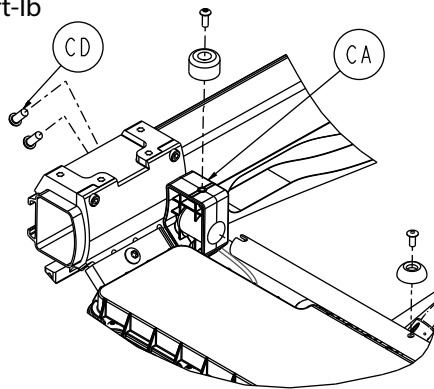
**Note** - Using a torque screwdriver, torque the screws to 3.91 - 5.29 ft-lb when you reinstall.

8. Unscrew the FEIB status external module coil cable assembly from the bottom FEIB enclosure. Fold the cable assembly toward the foot end of the cot.

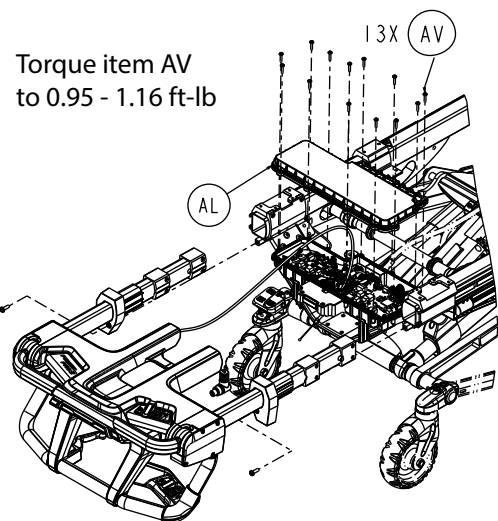
9. Using a T20 Torx driver, remove the thirteen round washer head tapping screws (AV) that secure the top FEIB enclosure (AL) to the bottom FEIB enclosure (Figure 84). Save the screws.

**Note** - Using a torque screwdriver, torque the round washer head tapping screws to 0.95 - 1.16 ft-lb when you reinstall.

Torque item CD  
to 3.91 - 5.29 ft-lb



**Figure 83 – Remove the Gatch bumper housing**



**Figure 84 – Remove the FEIB enclosure screws**

10. Remove the top FEIB enclosure from the bottom FEIB enclosure.
11. Using a T25 Torx driver, remove the two pan head tapping screws that secure the system bus cable assembly to the back of the FEIB assembly. Save the screws.
12. Using a T27 Torx driver, remove the pan head machine screw that secures the negative wire connection to the FEIB grounding block. Save the screw.
13. Using a T25 Torx driver, remove the pan head machine screw that secures the positive wire connection to the FEIB grounding block. Save the screw.
14. Remove the two other connections from the cot FEIB PCBA to the system bus cable assembly.
15. Remove system bus cable assembly from the back of the bottom FEIB enclosure.

**Note**

- Always use care when you lift and support the cot. The cot may move while you tip the cot onto the head section.
- Retract and lock the head section and make sure that the Fowler is in the up position before you tip the cot.

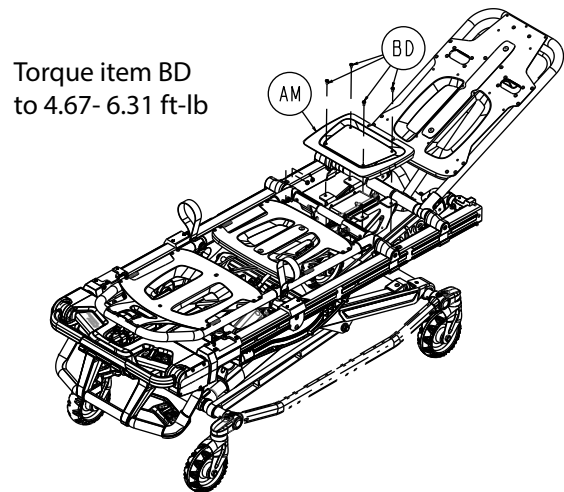
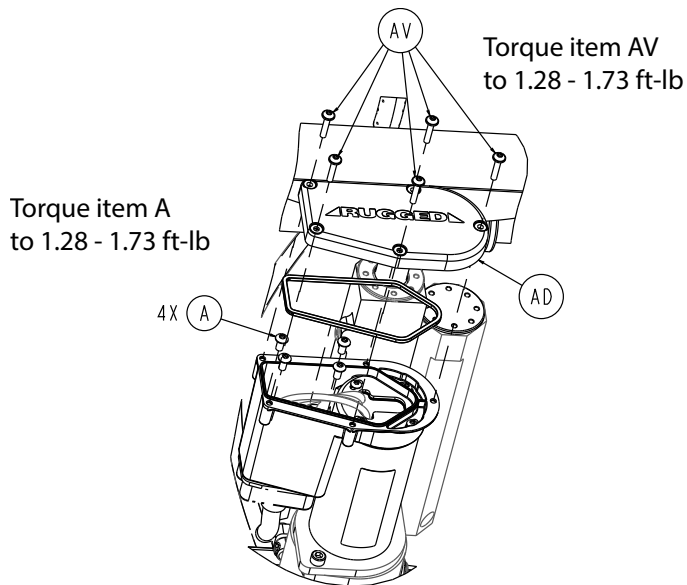
16. Stand at the foot end and tilt the cot onto its head section.
17. Using a T20 Torx driver, remove the five round washer head tapping screws (AV) that secure the actuator end cap (AD) to the hydraulic assembly electrical box (Figure 85). Save the screws and end cap.

**Note** - Using a torque wrench, torque the round washer head tapping screws to 1.28 - 1.73 ft-lb when you reinstall.

18. Unlock and unplug both cable connections in the electrical box.
19. Using a T15 Torx driver, remove the four button head torx screws (A) that secure the lift motor cable assembly to the actuator cover (Figure 85). Save the screws.
 

**Note** - Using a torque wrench, torque the button head torx screws to 1.28 - 1.73 ft-lb when you reinstall.
20. Remove the lift motor cable assembly through the back of the electrical box.
21. Stand at the foot end and lower the cot back onto the four wheels.
22. Using a T25 Torx driver, remove the four pan head thread rolling screws (BD) that secure the seat skin (AM) to the cot (Figure 86). Remove and save the seat skin. Save the screws.
 

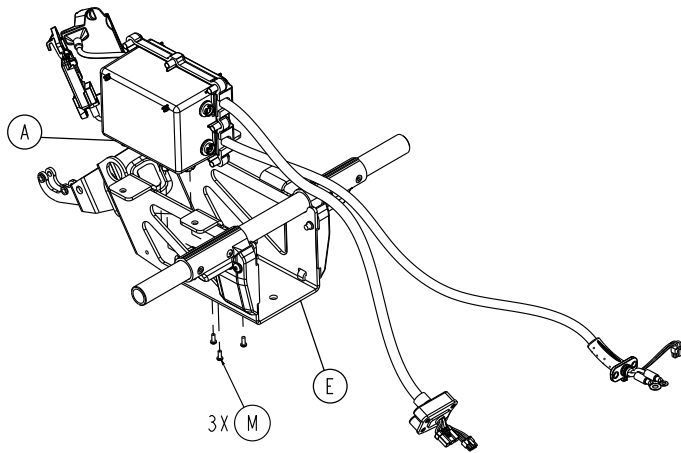
**Note** - Using a torque wrench, torque the pan head thread rolling screws to 4.67 - 6.31 ft-lb when you reinstall.



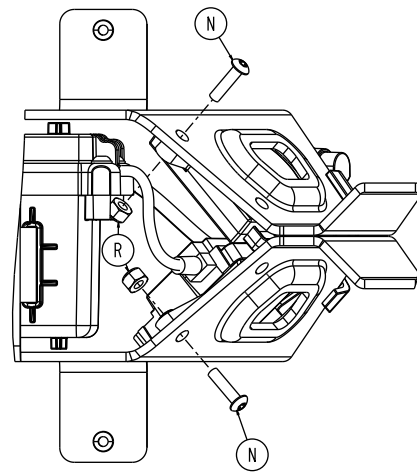
**Figure 86 – Remove the screws and seat skin**

**Figure 85 – Lift motor cable assembly components**

23. Disconnect the two quick disconnect connections (HBC strain gauge external cable assembly and the solenoid/transducer external cable assembly) from the HBC enclosure assembly.
24. Using a T25 Torx driver, remove the three pan head tapping screws (M) that secure the HBC enclosure assembly (A) to the bird cage (E) (Figure 87). Save the screws.
25. Using a T25 Torx driver and a 3/8" combination wrench, remove the button head cap screw (N) and Fiberlock nut (R) that secure the wireless module, if equipped, and the NFMIC module to the cot, if equipped (Figure 88). Save the screw and nut.



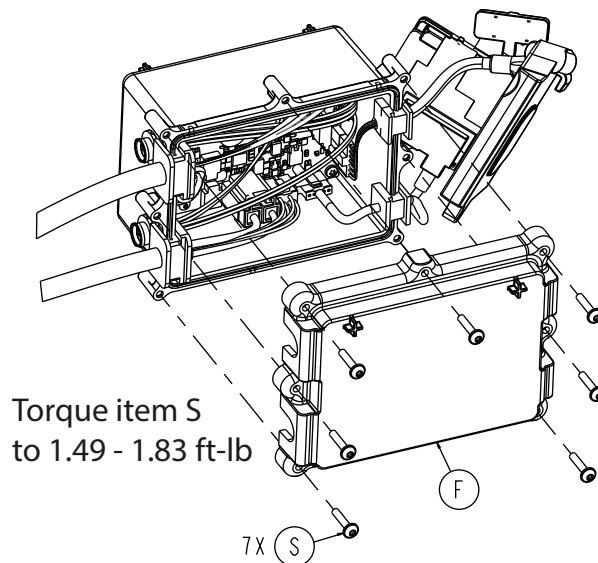
**Figure 87 – Remove the HBC enclosure assembly screws**



**Figure 88 – Remove the wireless module screw and nut**

26. Lift the HBC enclosure assembly up through the seat section to access the screws that secure the HBC top cover.
27. Using a T20 Torx driver, remove the seven round washer head tapping screws (S) that secure the top cover (F) to the HBC enclosure assembly (Figure 89). Remove and save the top cover. Save the screws.

**Note** - Using a torque screwdriver, torque the screws to 1.49 - 1.83 ft-lb when you reinstall.



**Figure 89 – Remove the HBC top cover screws**

28. Unplug the cable connectors from the HBC board.
- Note** - Use an ESD system when you unplug the cable connectors.
29. Remove HBC enclosure and cable assemblies.
30. Reverse steps to reinstall.

**Note** - Push the rubber grommets from the cables into the HBC enclosure assembly pockets.

31. Calibrate the cot. See *Cot calibration* (page 40).
32. Verify proper operation before you return the product to service.

# HBC strain gauge external cable assembly replacement

## Tools required:

- 3/4" combination wrench (2)
- 1/8" hex wrench
- 3/8" combination wrench
- Saw horse (2)
- Small punch
- Torque screwdriver (in-lb)

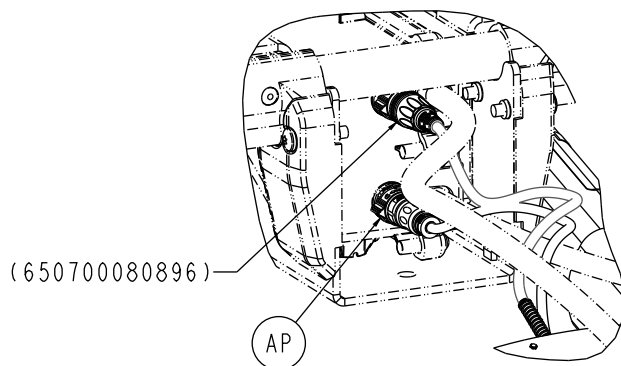
## Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Raise the product to the highest height position.
4. Remove the cot battery.

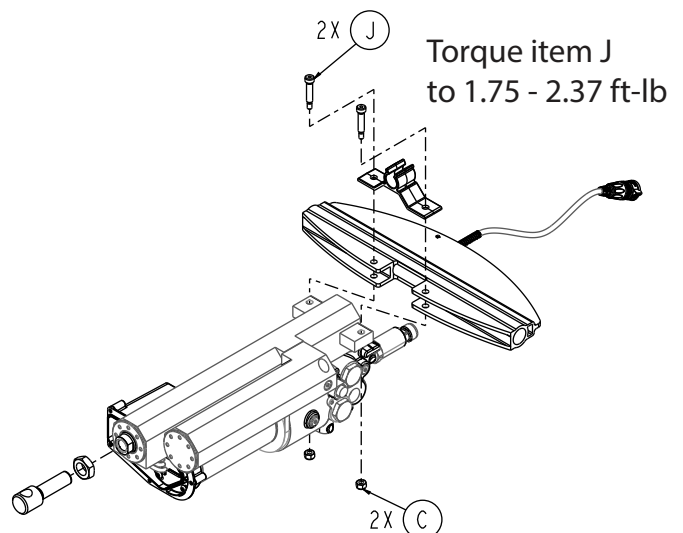
**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

5. Extend and lock the head section.
6. Retract and lock the foot section.
7. Using two sawhorses:
  - a. Foot end – place the cot in the highest height position. Lift and support the foot end below the foot section.
  - b. Head end – place the cot in the mid-height position. Extend and lock the head section, then lift and support the head section.
8. Remove the solenoid/transducer (AP) at the HBC via the quick disconnect (Figure 90).
9. Using a 1/8" hex wrench and 3/8" combination wrench, remove the two socket head shoulder bolts (J) and Fiberlock hex nuts (C) that secure the hydraulic cylinder assembly to the X-frame cross brace (Figure 91). Save the bolts and nuts.

**Note** - Using a torque screwdriver, torque the socket head shoulder bolts to 1.75 - 2.37 ft-lb when you reinstall.



**Figure 90 – Remove the solenoid/transducer external cable assembly**

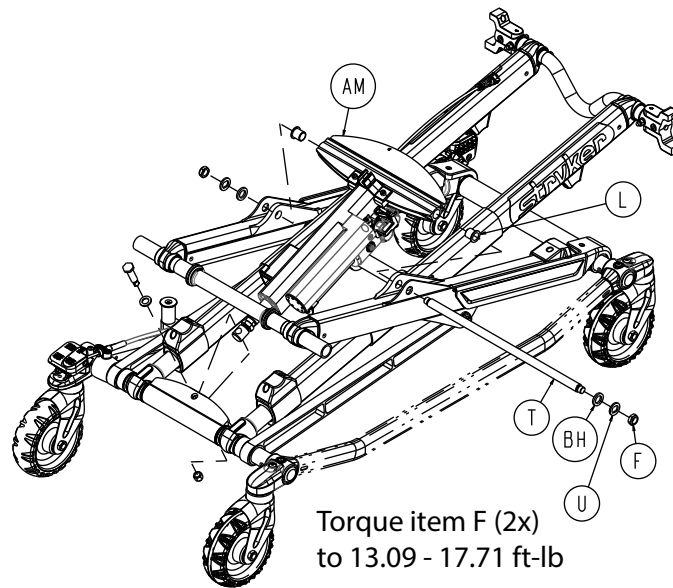


**Figure 91 – Remove the actuator assembly bolts and nuts**

10. Using two 3/4" combination wrenches, remove the Nylock hex nut (F), D washer (U), and washer (BH) (Figure 92). Save all parts.

**Note** - Using a torque screwdriver, torque the Nylock hex nut to 13.09 - 17.71 ft-lb when you reinstall.

- Using a small punch, push the stiffener bar cross tube (T) through the HBC strain gauge external cable assembly (AM) (Figure 92). Remove and save stiffener bar cross tube and flange bearings (L).



**Figure 92 – Lift assembly components**

- Remove HBC strain gauge external cable assembly and discard.
- Reverse steps to reinstall.

**Note** - Push the rubber grommets from the cables into the HBC enclosure assembly pockets.

- Calibrate the cot. See *Cot calibration* (page 40).
- Verify proper operation before you return the product to service.

## Slider roller replacement

### Tools required:

- T25 Torx driver
- T27 Torx driver
- 1/2" combination wrench
- 3/16" hex wrench
- Pick
- Torque wrench (in-lb)

### Procedure:

- Apply the brakes.
- Place the product in the highest height position.
- Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

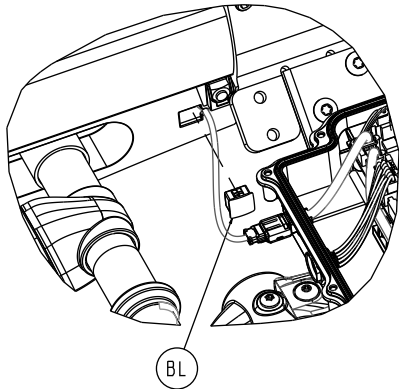
- Raise the left XPS siderail to the up and locked position, if equipped.
- Raise the backrest and foot section to the highest height position.
- Retract and lock the head section.
- Raise the cot from the foot end. Tilt the cot up so it rests on the backrest.



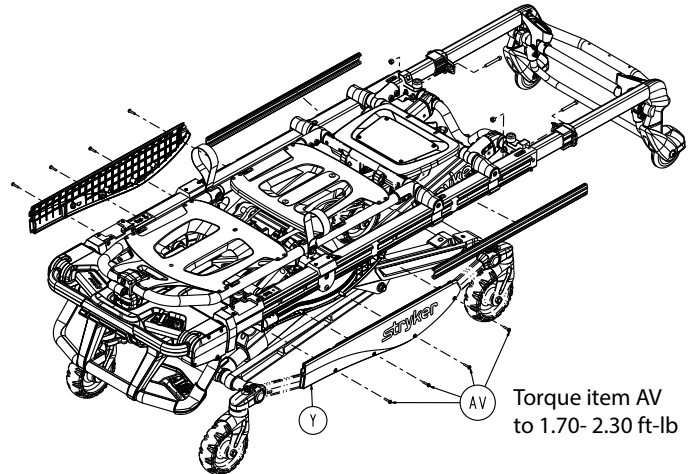
**CAUTION** - Always use assistance from another person when you flip the cot onto the backrest.

- Using a pick, remove the hole plug (BL) for the MTS sensor from the back of the slider block (Figure 93). Save the hole plug.
- Using a pick, unplug the connector for the MTS sensor from the foot end box.
- Using a T25 Torx driver, remove the four round washer head tapping screws (AV) that secure the slider block cover (Y) to the slider block (Figure 94). Save the screws.

**Note** - Using a torque wrench, torque the round washer head tapping screws to 1.70 - 2.30 ft-lb when you reinstall.



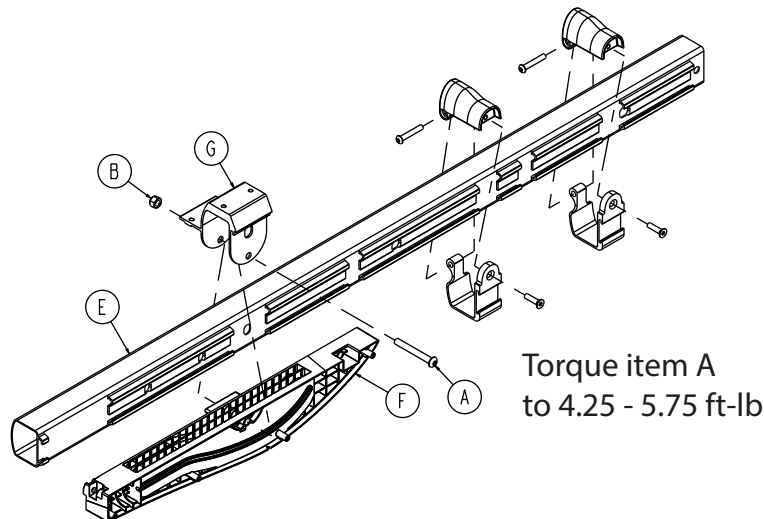
**Figure 93 – Remove the hole plug**



**Figure 94 – Remove the slider block cover screws**

- Pivot the head end down and out to remove and save the slider block cover.
- Using a T27 Torx driver and a 1/2" combination wrench, remove the button head cap screw (A) and Nylock hex nut (B) that secure the slider block (F) to the outer rail (E). Save all parts.

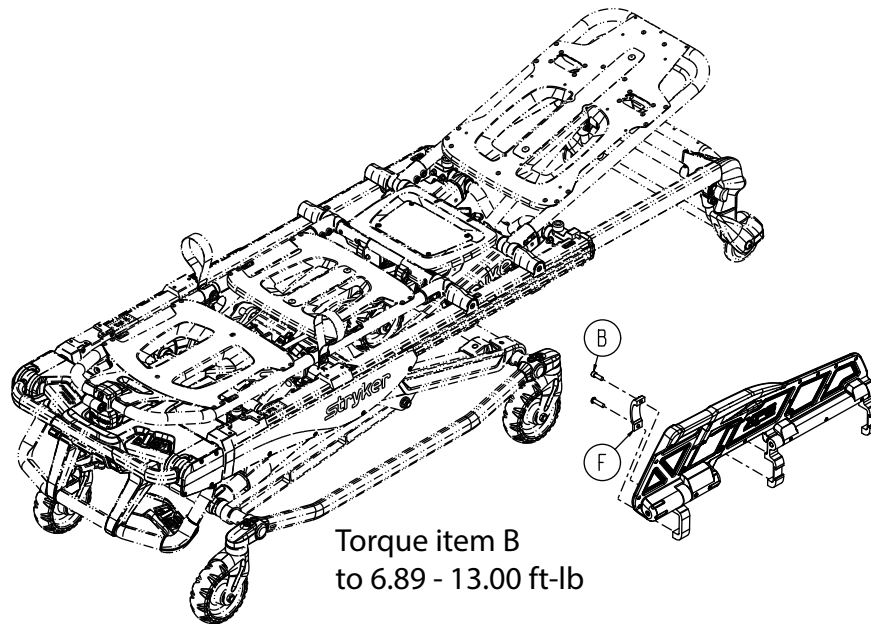
**Note** - Using a torque wrench, torque the button head cap screw to 4.25 - 5.75 ft-lb when you reinstall.



**Figure 95 – Remove the slider block**

- Using a T27 Torx driver, remove the hex socket button head cap screw (B) that secures the XPS inner bracket (F) to the slider block (Figure 96). Save the screw.

**Note** - Using a torque wrench, torque the hex socket button head cap screw (B) to 6.89 - 13.00 ft-lb when you reinstall.



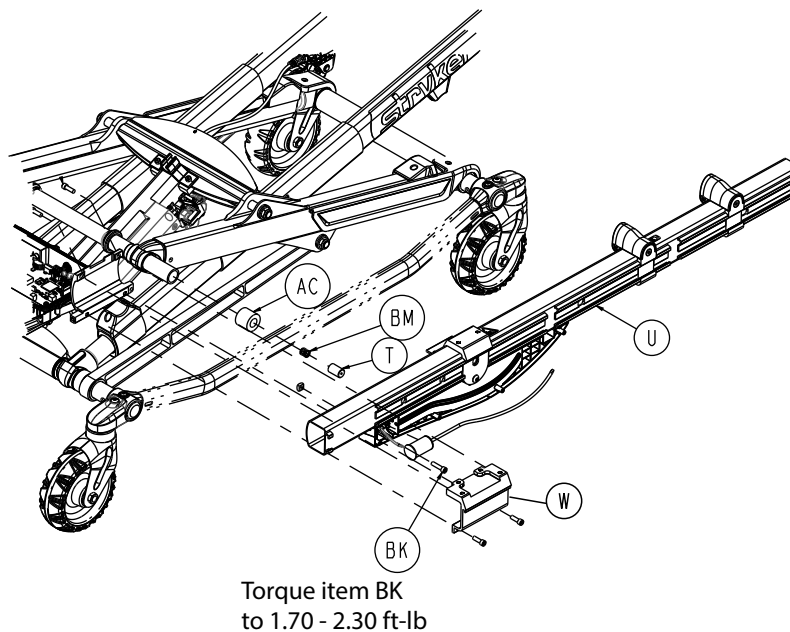
**Figure 96 – Remove the hex socket button head cap screw**

14. Using a 3/16" hex wrench, remove the socket head cap screw (BK) that secures the slider block to the hitch bracket o-clamp (W) to the outer rail (U) (Figure 97). Save the screw.

**Note** - Using a torque wrench, torque the socket head cap screw to 1.70 - 2.30 ft-lb when you reinstall.

15. Lift up and provide pressure on foot end to separate the outer rail from the slider block.

16. Remove slider roller (AC), slide magnet assembly (T), and compression wire (BM) (Figure 97). Save the slide magnet assembly and compression wire. Discard slider roller.



**Figure 97 – Discard the slider roller**

17. Reverse steps to reinstall.

18. Verify proper operation before you return the product to service.

## Foot section replacement

### Tools required:

- T10 Torx driver
- T30 Torx driver
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Place the cot and foot section in the highest height position.
4. Remove the cot battery.

---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

5. Using a T10 Torx driver, remove the two round washer head tapping screws (CH) that secure the manual release cable bracket to the hydraulic assembly (Figure 98). Save the screws.
6. Raise the knee Gatch to the Trendelenburg position.
7. Remove the FEIB to status external module coil cable assembly (650700080862) (Figure 99).

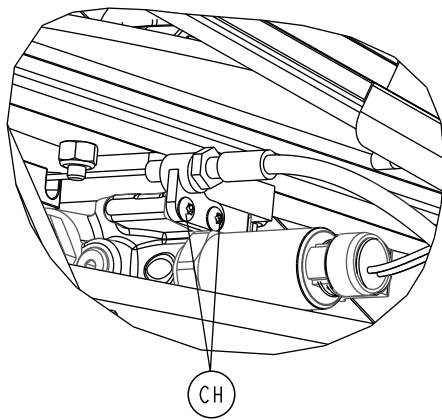


Figure 98 –

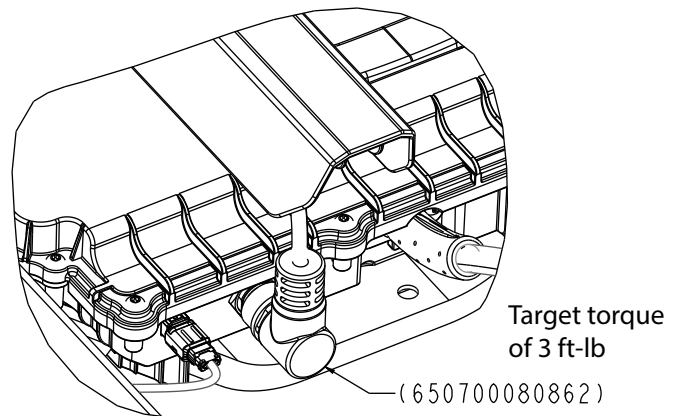
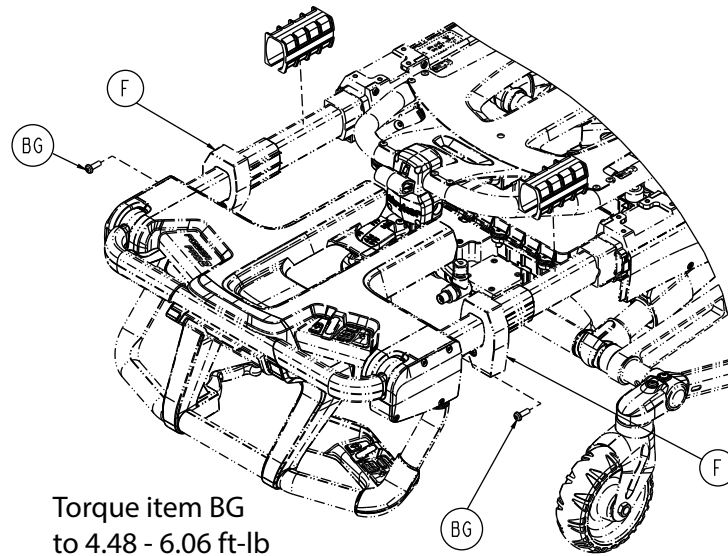


Figure 99 –

8. Extend the foot section to access the outer rail end cap screws.
9. Using a T30 Torx driver, remove the pan head machine screw (BG) that secures the outer rail end cap (F) to the outer rail (Figure 100). Repeat on the other side. Save the screws.

**Note** - Using a torque wrench, torque the pan head machine screws to 4.48 - 6.06 ft-lb when you reinstall.



**Figure 100 –**

10. Remove and discard the foot section.
11. Reverse steps to reinstall.
12. Verify proper operation before you return the product to service.

## Slider magnet assembly replacement

---

### CAUTION

- Always use electrostatic discharge (ESD) protective equipment before you open antistatic bags and service electronic parts.
  - Do not place unprotected circuit boards on the floor.
- 

### Tools required:

- T20 Torx driver
- T30 Torx driver
- Slotted screwdriver
- 1/2" combination wrench
- ESD system
- Torque wrench (in-lb)

### Procedure:

1. Apply the brakes.
2. Remove the mattress from the cot.
3. Retract the retractable head section.
4. Place the cot and Fowler in the highest height position.
5. Remove the cot battery.

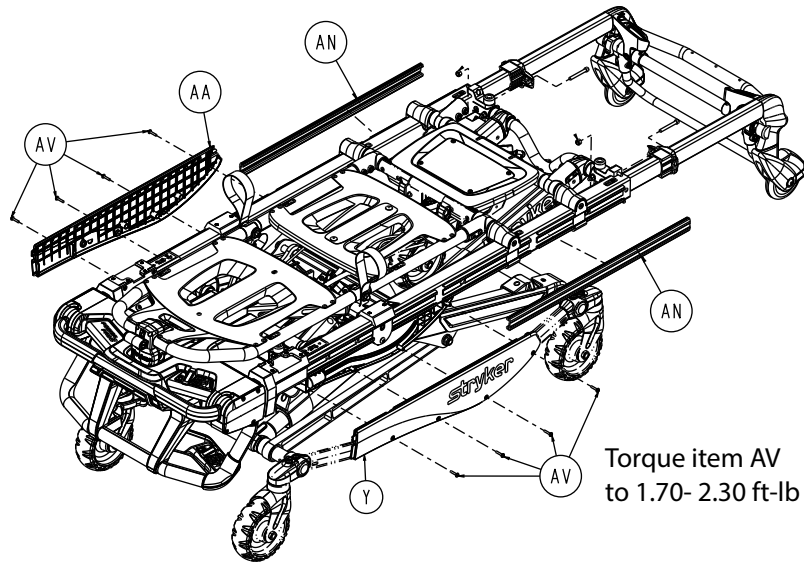
---

**CAUTION** - Always remove the cot battery before you service or upgrade the cot to reduce the risk of shock.

---

6. Tilt the cot onto its head end.
7. Using a T20 Torx driver, remove the four round washer head tapping screws (AV) from the patient left slider block cover (Y) (Figure 101). Save the screws and cover.

**Note** - Using a torque wrench, torque the round washer head tapping screws to 1.70 - 2.30 ft-lb when you reinstall.



**Figure 101 – Remove the slider block cover**

8. Using a T30 Torx driver and a 1/2" combination wrench, remove the button head cap screw (A) that secures the patient left slider block (F) to the outer rail (E) (Figure 102). Save the screw and slider block.

**Note** - Using a torque wrench, torque the button head cap screw to 4.25 - 5.75 ft-lb when you reinstall.

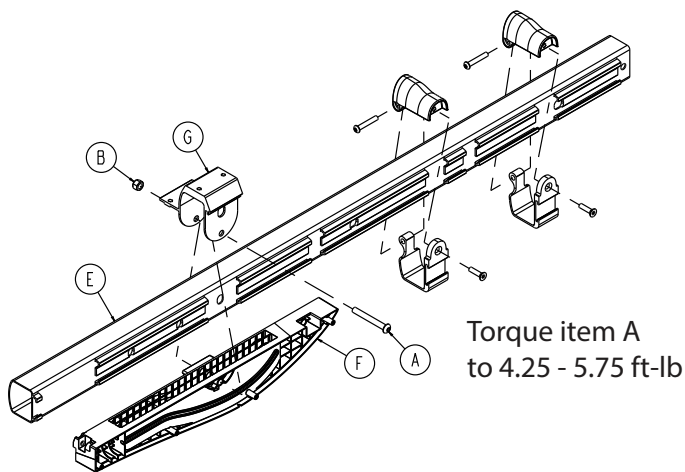
9. Unplug the MTS sensor assembly (CE) (Figure 103).

**Note** - Use an ESD system when you unplug the cable connectors.

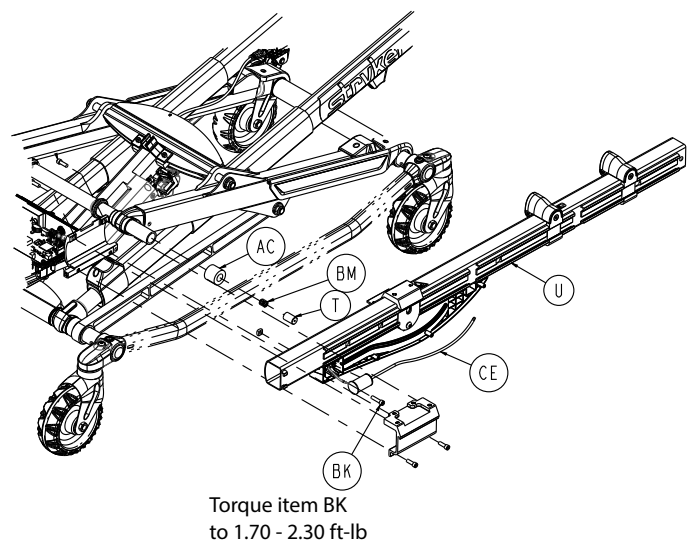
10. Using a T30 Torx driver, remove the socket head cap screw (BK) from the outer rail assembly (U) (Figure 103). Save the screw.

**Note** - Using a torque wrench, torque the socket head cap screw to 1.70 - 2.30 ft-lb when you reinstall.

11. Remove the slider magnet assembly (T), slider roller (AC), and compression wire (BM) (Figure 103). Discard all parts.



**Figure 102 – Remove the slider block**



**Figure 103 – Remove the slider magnet assembly**

12. Reverse steps to reinstall

13. Verify proper operation before you return the product to service.

# Cot wireless configuration

## Tools required:

- Wireless Configuration Tool (5212-503-001)
- Microsoft Windows PC running Windows 10 (minimum)
- Wireless router (with Stryker's SSID and security settings loaded) (*Wireless router configuration* (page 96))

## Procedure:

1. Plug in the wireless router (Programmed with Stryker's SSID).
2. Connect the PC to the wireless router SSID SYKMedicalInstall.
3. Open the Stryker Wireless Configuration Tool (Figure 104).

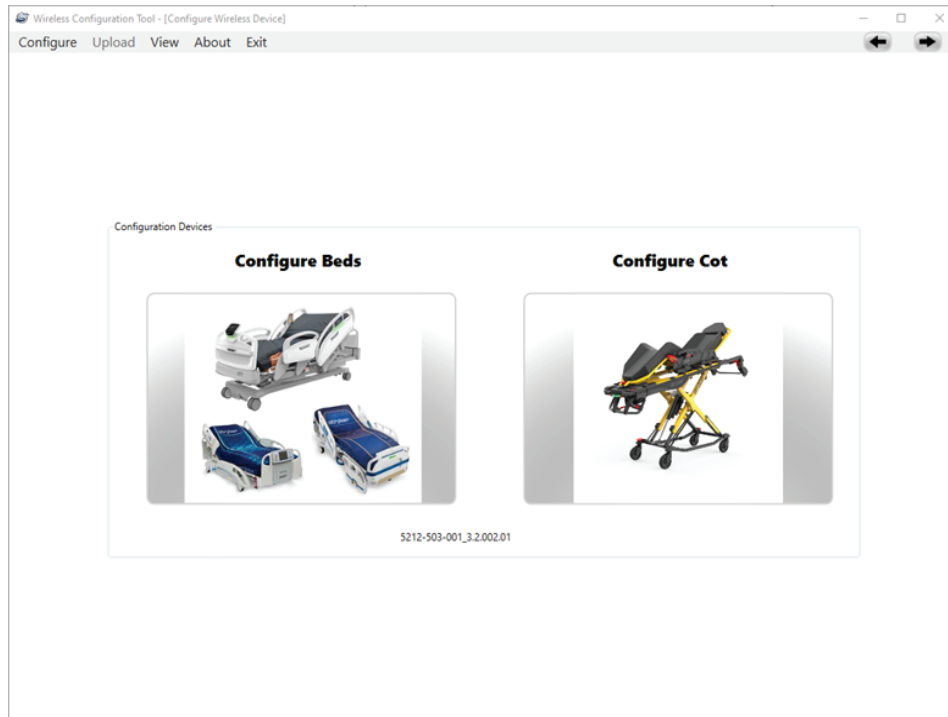


Figure 104 –

4. Click **Configure Cot**.
5. Insert the battery or press a button on the cot to turn the power on. This will power the wireless radio on the cot.
6. Select the Auto Scan box.
7. As the devices start to connect and populate Auto Scan table, select the cot to be activated. The serial number and radio MAC will be listed in the window (Figure 105).



Figure 105 –

8. For the selected device, click **Get Config** in the Auto Scan window and wait for the device info window to pop up (Figure 106).

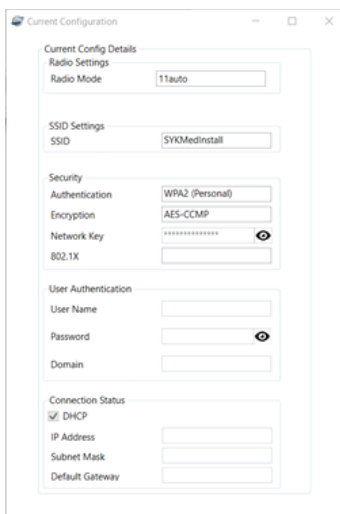


Figure 106 –

9. Close the pop-up window. This is the confirmation of the connection to the cot.
10. In the bottom of the Wireless Configuration Tool window, enter the SSID information for the SSID to be added to the cot (Figure 107).

**Note** - Click **Add SSID** and enter the next SSID information if more than one SSID is required for the cot to connect to multiple wireless networks. The cot can support up to ten SSIDs.



Figure 107 –

11. Click **Upload Configuration to Device** to upload the SSID settings to the cot.

**Note** - Use this tool to reconnect if any SSIDs need to be added, deleted, or modified. When you receive the Get Device Config pop-up, you will be able to see and edit the programmed SSIDs.

## Wireless router configuration

Linksys AC1200 Dual-Band Wi-Fi 5 Router, Model EA6350 (recommended) or any dual-band homestyle (Figure 108):

2.4 GHz network name: syk\_med\_install

Network password: Stryk3r1#TfWxP

5 GHz network name: SYKMedInstall

Network password: Stryk3r1#TfWxP



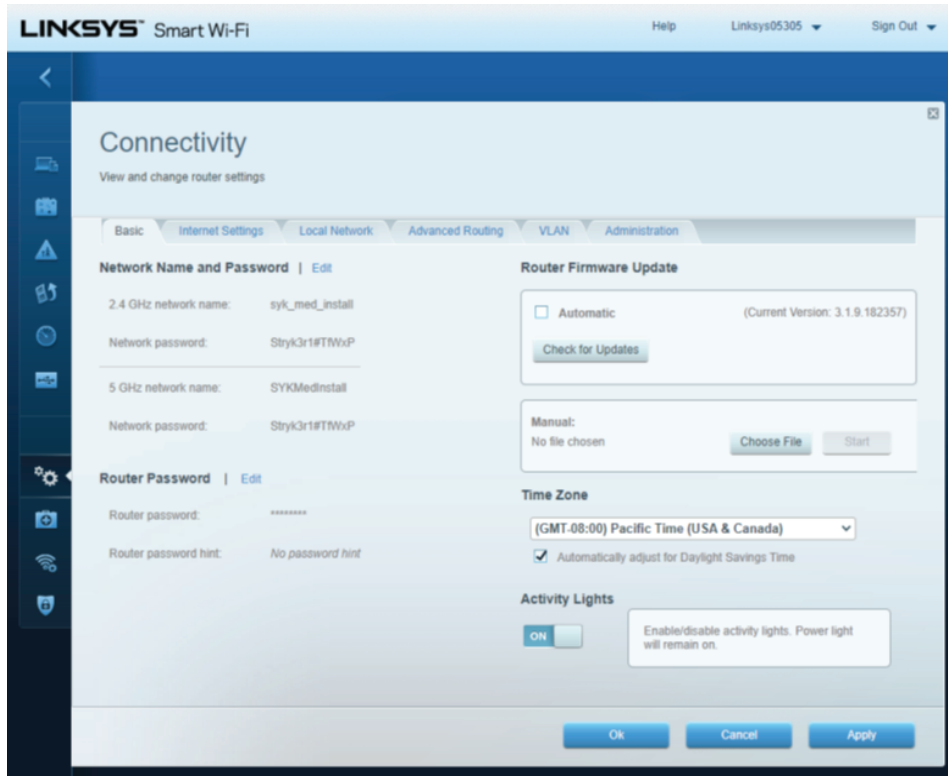
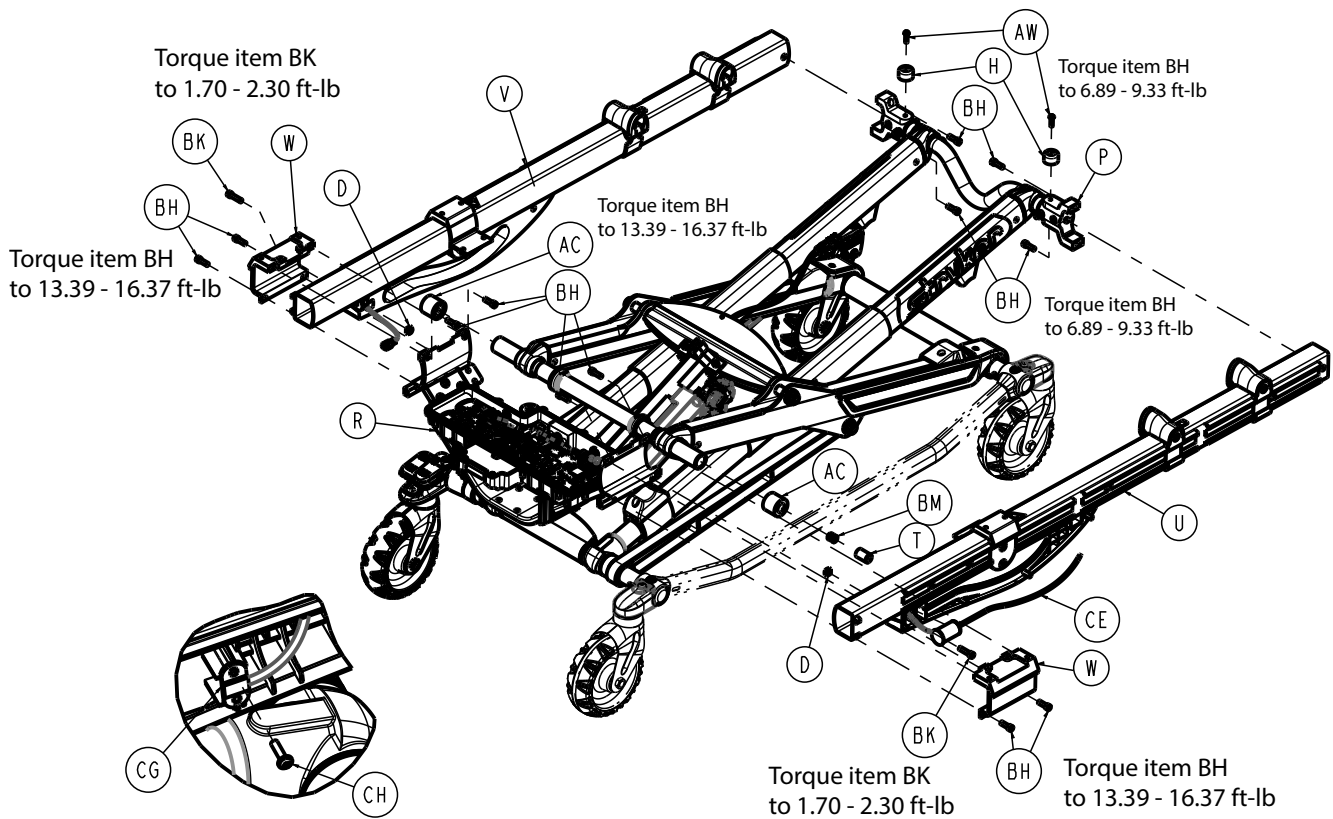
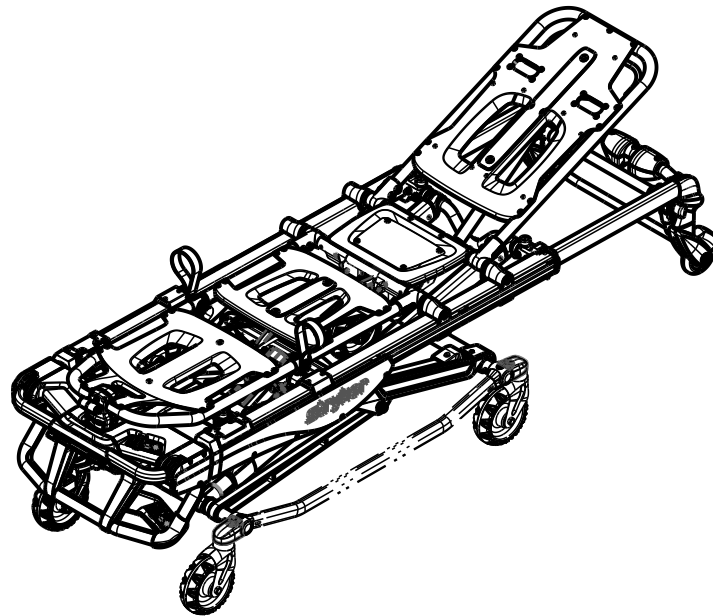
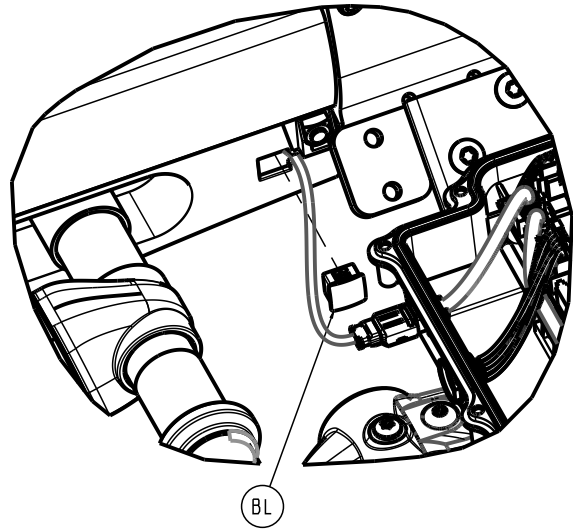
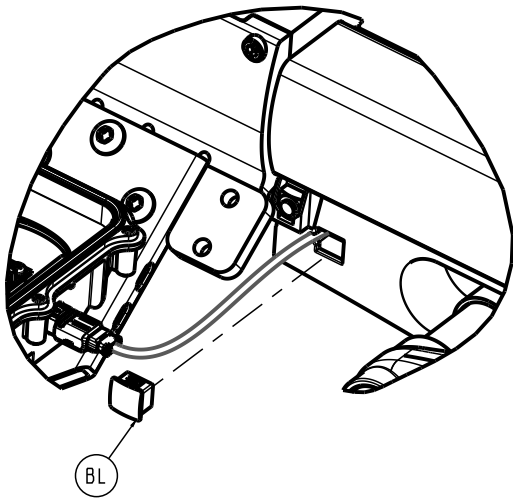


Figure 108 –

# Cot assembly, common components

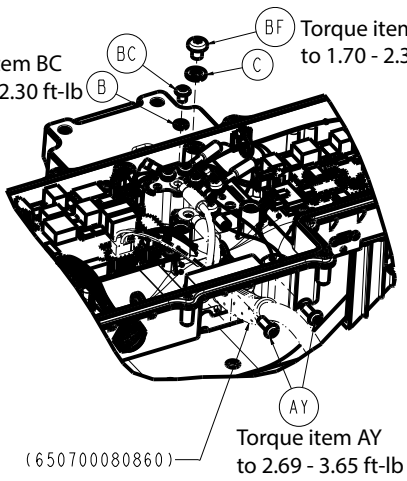
650700010001 Rev AN (Reference only)



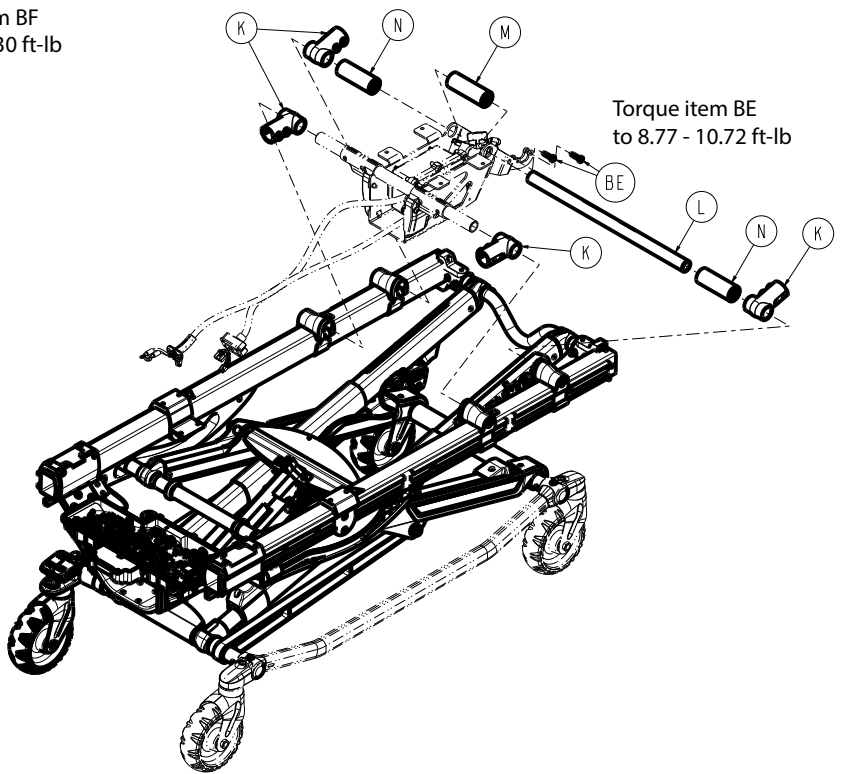


Torque item BC to 1.70 - 2.30 ft-lb

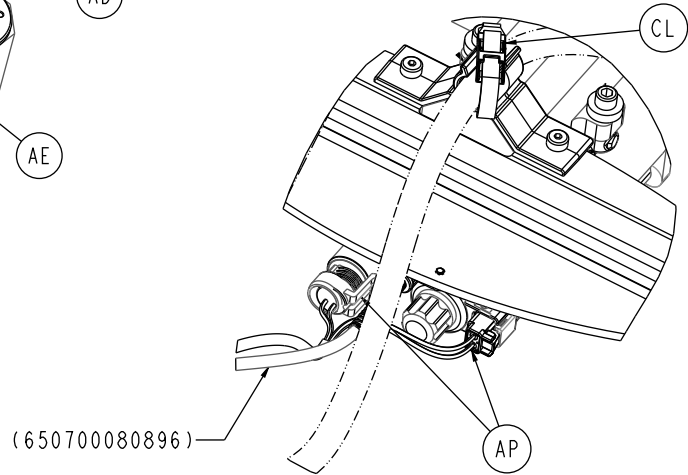
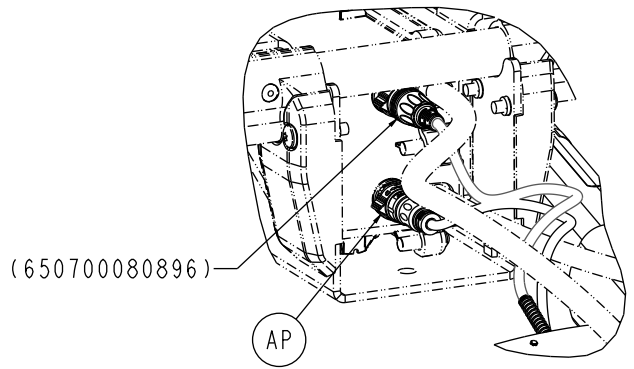
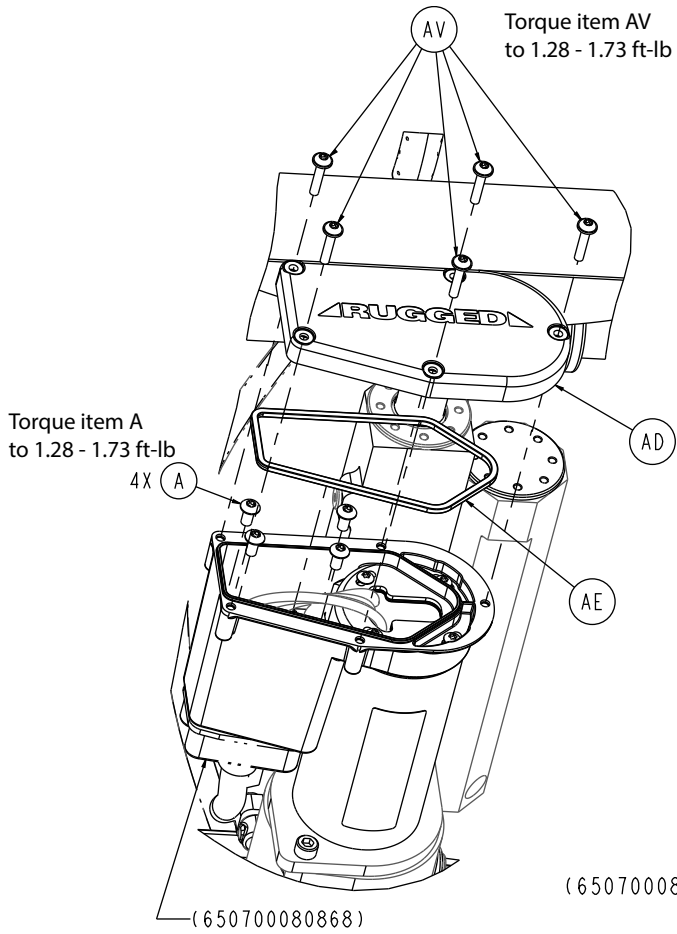
Torque item BF to 1.70 - 2.30 ft-lb



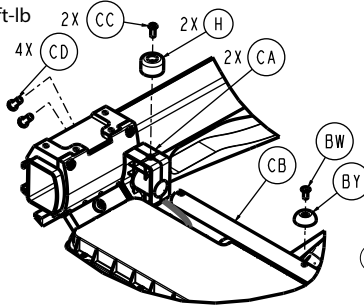
(650700080860) Torque item AY to 2.69 - 3.65 ft-lb



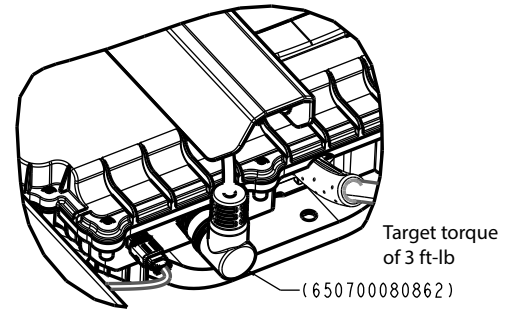
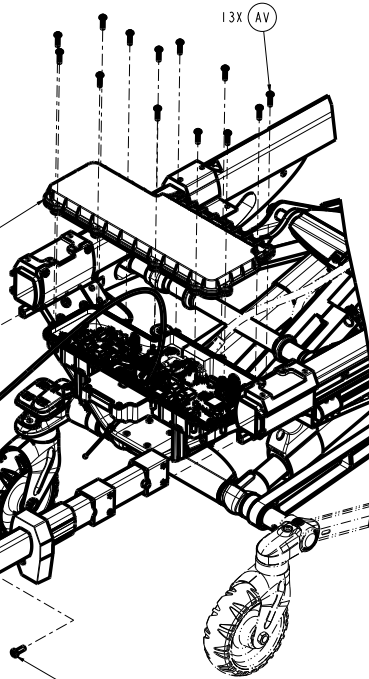
Torque item BE to 8.77 - 10.72 ft-lb



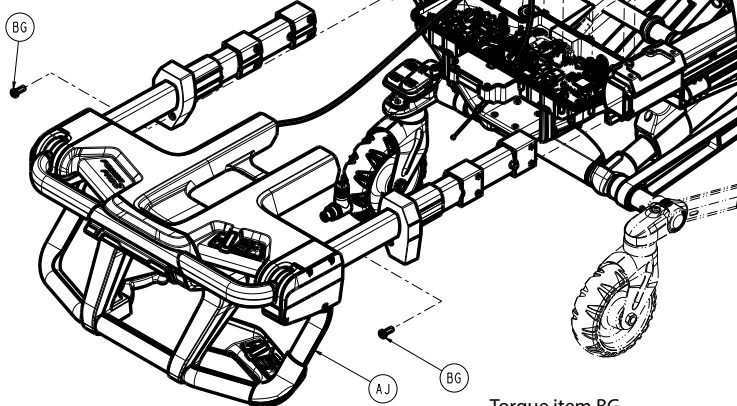
Torque item CD to 3.91 - 5.29 ft-lb



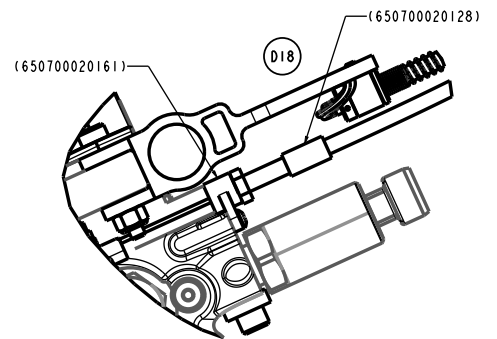
Torque item AV to 0.95 - 1.16 ft-lb

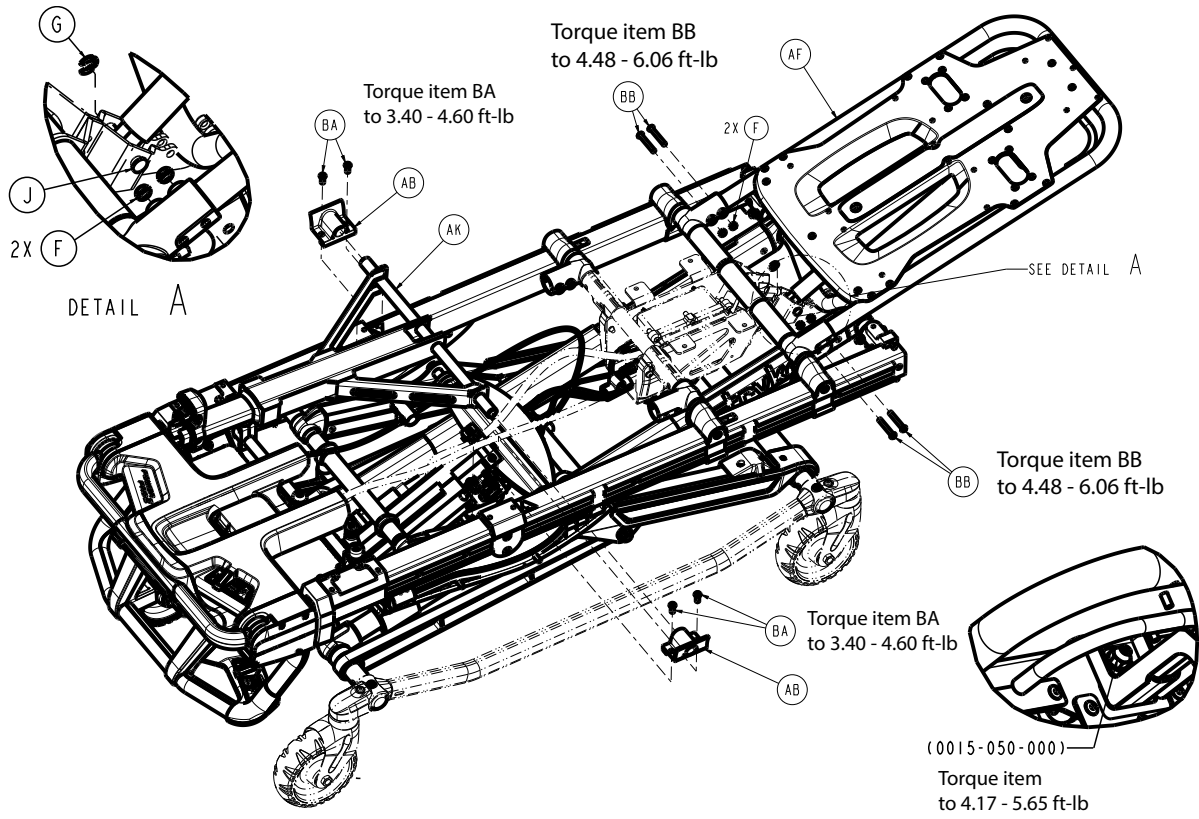


Torque item BG to 4.48 - 6.06 ft-lb

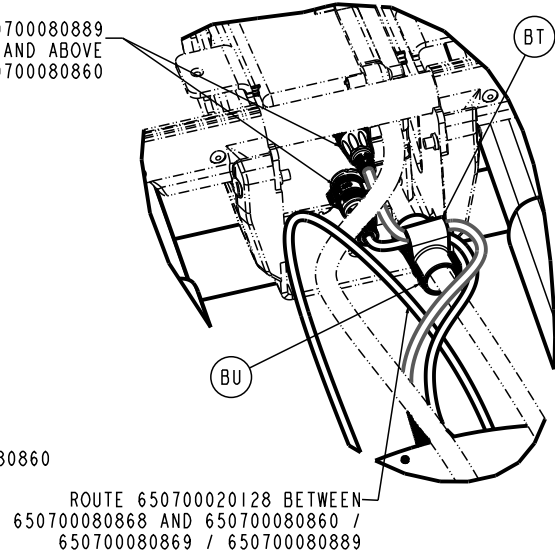
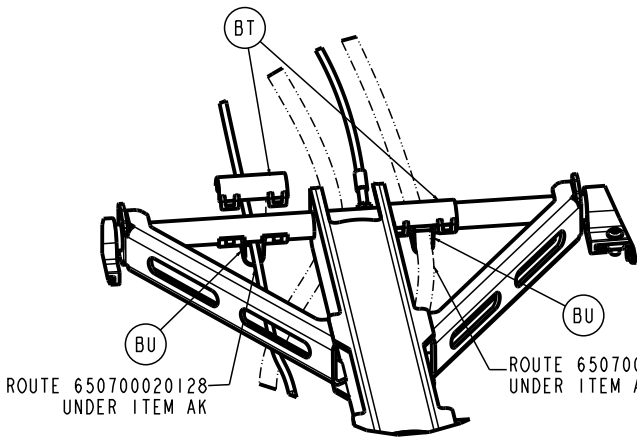


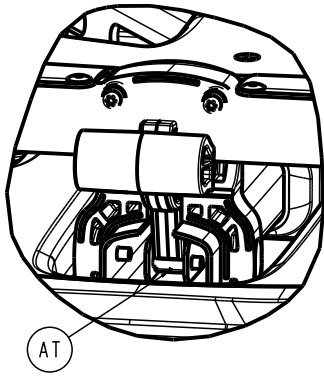
Torque item BG to 4.48 - 6.06 ft-lb





ROUTE 650700080869 AND 650700080889  
UNDERNEATH 650700080868 AND ABOVE  
650700080860





AT

Torque item BB  
to 4.48 - 6.06 ft-lb

Torque item BD  
to 4.67- 6.31 ft-lb

AM

BB

4X

F

BD

AG

AR

Torque item AU  
to 2.69 - 3.65 ft-lb

AU

AT

Torque item BB  
to 4.48 - 6.06 ft-lb

BB

Torque item AV  
to 1.70- 2.30 ft-lb

AA

AV

AN

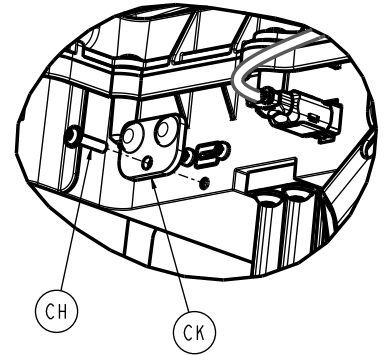
E

AH

BJ

Torque item BJ  
to 2.29- 3.09 ft-lb

AN



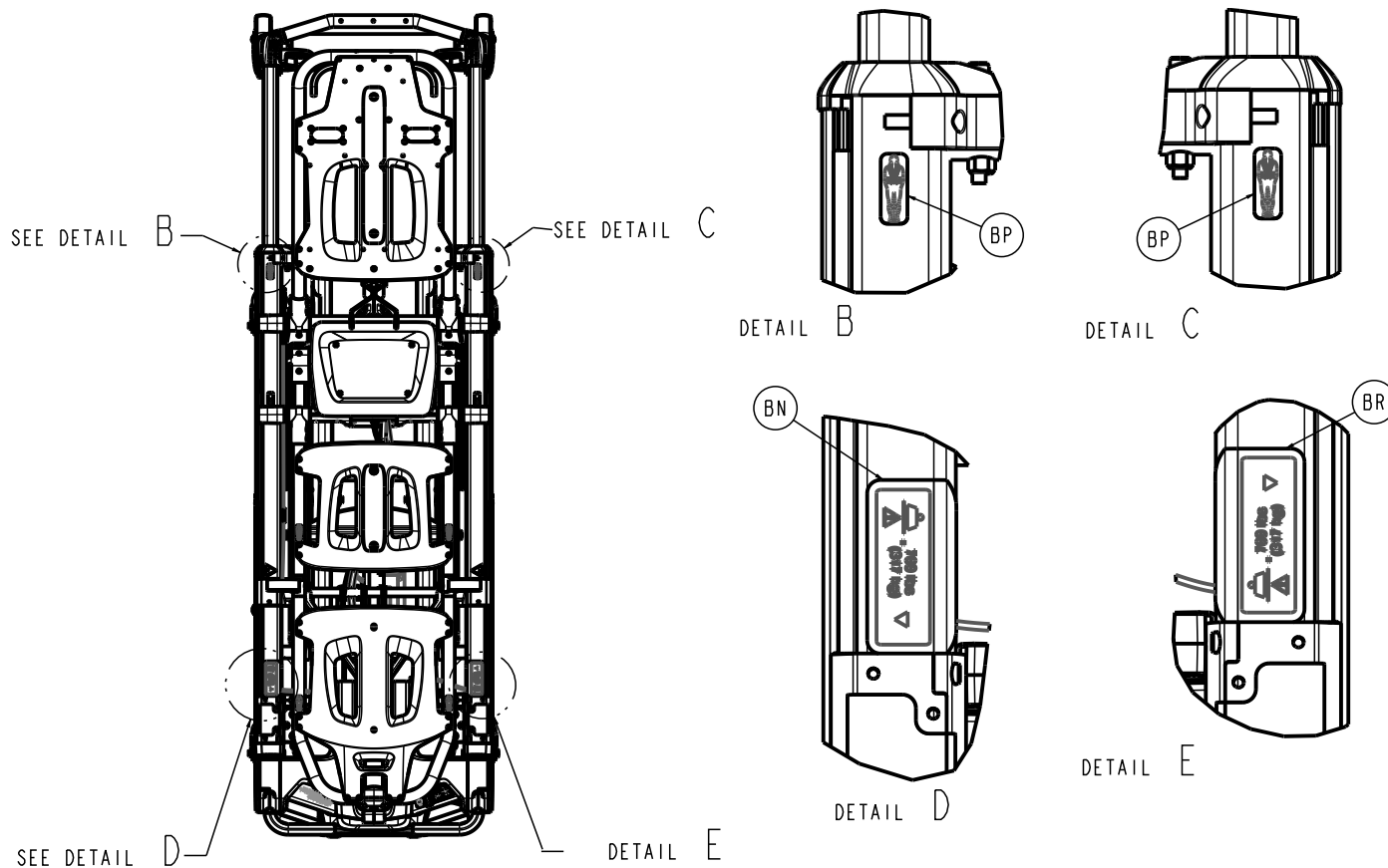
CH

CK

Torque item AV  
to 1.70- 2.30 ft-lb

Y

AV



| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| A    | 0004-442-000 | Button head torx screw                      | 4        |
| B    | 0012-005-000 | Lock washer                                 | 1        |
| C    | 0012-012-000 | Lock washer                                 | 1        |
| D    | 0015-096-000 | Square nut                                  | 2        |
| E    | 0016-028-000 | Fiberlock hex nut                           | 2        |
| F    | 0016-102-000 | Nylock nut                                  | 8        |
| G    | 0028-181-000 | Truarc ring                                 | 1        |
| H    | 0056-028-000 | Bumper, black TPR                           | 4        |
| J    | 6085-101-143 | Fowler cylinder pin                         | 1        |
| K    | 6100-003-125 | Straight T pivot                            | 4        |
| L    | 6500-001-105 | Litter support cross tube                   | 1        |
| M    | 6500-001-249 | Spacer, litter, outside                     | 1        |
| N    | 6500-001-250 | Spacer, litter, inside                      | 2        |
| P    | 650700010002 | Lift assembly (page 112)                    | 1        |
| R    | 650700020001 | Hitch bracket assembly, foot end (page 139) | 1        |
| T    | 650700020002 | Slider magnet assembly                      | 1        |
| U    | 650700020012 | Outer rail assembly, left (page 135)        | 1        |
| V    | 650700020013 | Outer rail assembly, right (page 137)       | 1        |
| W    | 650700020137 | Hitch bracket o-clamp                       | 2        |
| Y    | 650700020142 | Slider block cover, left                    | 1        |
| AA   | 650700020143 | Slider block cover, right                   | 1        |
| AB   | 650700020146 | Gatch cross tube housing                    | 2        |

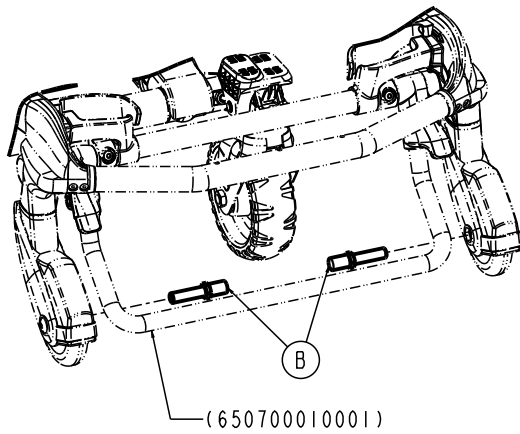
| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| AC   | 650700020248 | Slider roller                                     | 2        |
| AD   | 650700020192 | Actuator end cap                                  | 1        |
| AE   | 650700020196 | Actuator end cap seal                             | 1        |
| AF   | 650700080002 | <i>Fowler assembly (page 185)</i>                 | 1        |
| AG   | 650700080006 | <i>Gatch assembly (page 191)</i>                  | 1        |
| AH   | 650700080007 | <i>Head section assembly (page 178)</i>           | 1        |
| AJ   | 650700080008 | <i>Foot section assembly (page 167)</i>           | 1        |
| AK   | 650700080011 | <i>Gatch support assembly (page 193)</i>          | 1        |
| AL   | 650700080113 | FEIB enclosure, top                               | 1        |
| AM   | 650700080172 | Seat skin   | 1        |
| AN   | 650700080188 | Outer rail bumper                                 | 2        |
| AP   | 650700080869 | Solenoid/transducer external cable assembly       | 1        |
| AR   | 6550-001-124 | Gatch release, front                              | 1        |
| AT   | 6550-001-126 | Gatch release lever                               | 1        |
| AU   | 700000687300 | Pan head thread forming screw                     | 4        |
| AV   | 700000687745 | Round washer head tapping screw                   | 26       |
| AW   | 700000689468 | Button head cap screw                             | 2        |
| AY   | 700000689483 | Button head cap screw                             | 2        |
| BA   | 700000689546 | Button head cap screw                             | 4        |
| BB   | 700000689592 | Button head cap screw                             | 8        |
| BC   | 700000715613 | Button head cap screw                             | 1        |
| BD   | 700000717902 | Pan head thread rolling screw                     | 4        |
| BE   | 700001726578 | Pan head thread rolling screw                     | 2        |
| BF   | 700000719304 | Pan head machine screw                            | 1        |
| BG   | 700000719305 | Pan head machine screw                            | 2        |
| BH   | 700000721221 | Socket head cap screw                             | 12       |
| BJ   | 700000721224 | Socket head cap screw                             | 2        |
| BK   | 700000740914 | Socket head cap screw                             | 2        |
| BL   | 700000765285 | Rectangular hole plug                             | 2        |
| BM   | 700000770647 | Compression wire                                  | 1        |
| BN   | 650700010906 | Label, weight capacity, right                     | 1        |
| BP   | 650700010909 | Label, restraint, frame, shoulder                 | 2        |
| BT   | 650700080218 | Cable clip, top                                   | 3        |
| BU   | 650700080219 | Cable clip, bottom                                | 3        |
| BV   | 650700080301 | <i>Battery assembly - 650700080301 (page 209)</i> | 1        |
| BW   | 0025-079-000 | Dome head pop rivet                               | 1        |
| BY   | 0946-001-155 | Bumper  | 1        |
| CA   | 650700020129 | Gatch bumper housing                              | 2        |
| CB   | 650700020131 | Gatch bumper tube                                 | 1        |
| CC   | 700000689499 | Button head cap screw                             | 2        |
| CD   | 700001315681 | Button head cap screw                             | 4        |
| CE   | 650700020198 | MTS sensor assembly                               | 1        |
| CG   | 650700080875 | Cable assembly, in-ambulance sensor internal      | 1        |
| CH   | 700000687744 | Round washer head tapping screw                   | 2        |



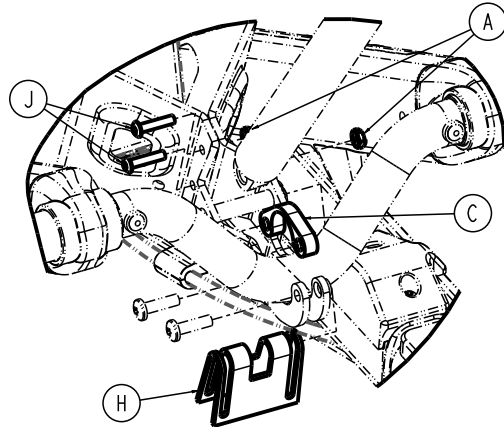
| <b>Item</b> | <b>Number</b> | <b>Name</b>                            | <b>Quantity</b> |
|-------------|---------------|--|-----------------|
| CK          | 650700080208  | FEIB USB cover                         | 1               |
| CL          | 0059-211-000  | Nylon cable tie                        | 1               |
| CM          | 6507-009-030  | Extension limiter kit memo (not shown) | 1               |

# Power-LOAD fastener

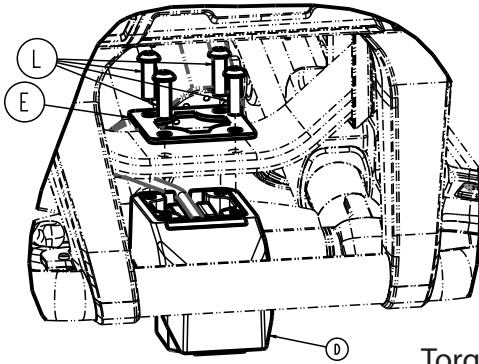
650709990104 Rev AC (Reference only)



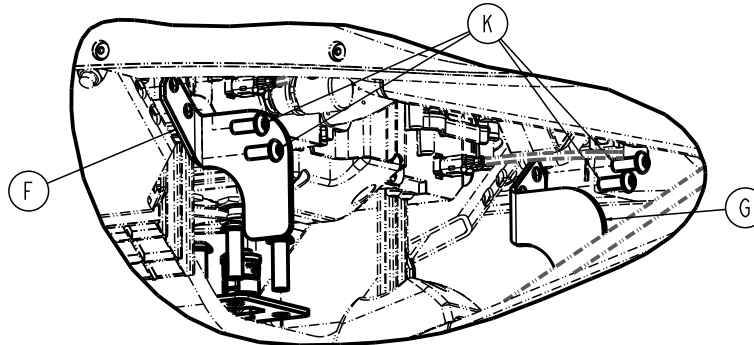
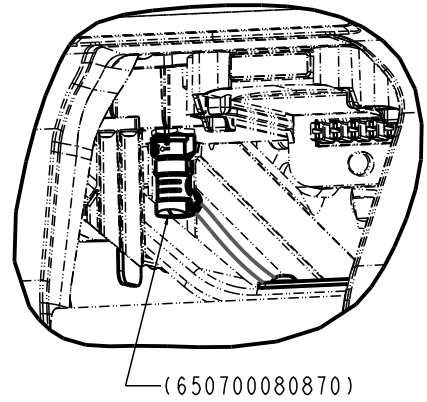
Torque item J  
to 1.77 - 2.39 ft-lb



Torque item L  
to 13.61 - 16.63 ft-lb



Torque item K  
to 3.40 - 4.60 ft-lb

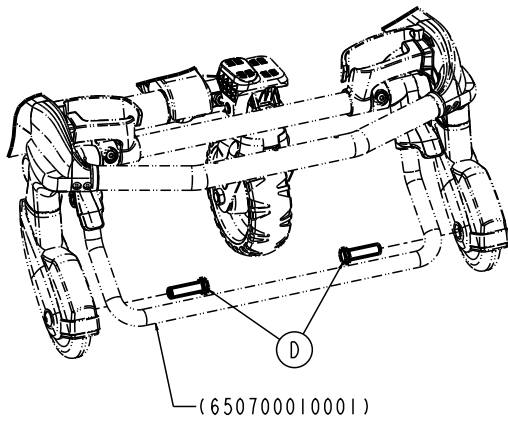


| Item | Number       | Name           | Quantity |
|------|--------------|----------------|----------|
| A    | 0016-131-000 | Nylock hex nut | 2        |
| B    | 6500-002-104 | Load wheel pin | 2        |
| C    | 6500-002-195 | Collar         | 1        |

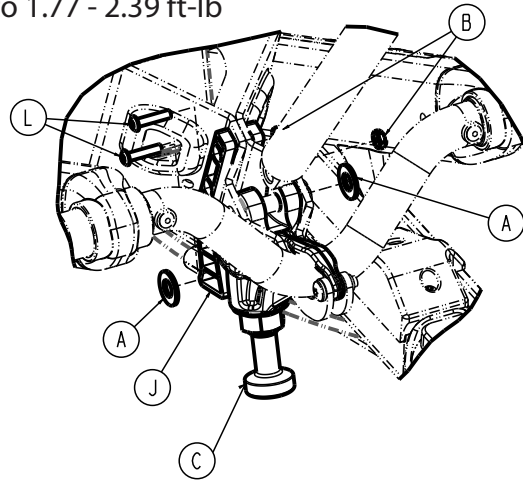
| <b>Item</b> | <b>Number</b> | <b>Name</b>                                | <b>Quantity</b> |
|-------------|---------------|--|-----------------|
| D           | 650700020011  | <i>Hitch assembly, foot end (page 141)</i> | 1               |
| E           | 650700020136  | Hitch bracket plate                        | 1               |
| F           | 650700020187  | Foot end hitch bracket hook, left          | 1               |
| G           | 650700020188  | Foot end hitch bracket hook, right         | 1               |
| H           | 650700080189  | Gas spring spacer                          | 1               |
| J           | 700000715614  | Button head cap screw                      | 2               |
| K           | 700000689546  | Button head cap screw                      | 4               |
| L           | 700000715617  | Button head cap screw                      | 4               |

# Performance-LOAD fastener

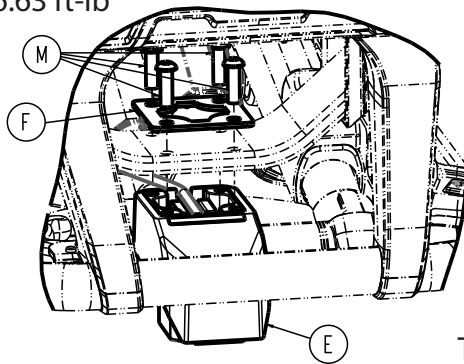
650709990105 Rev AC (Reference only)



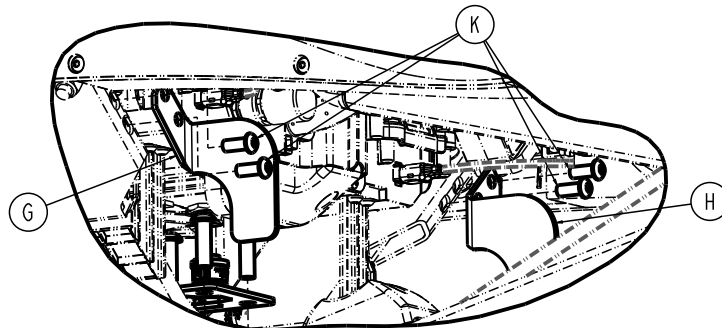
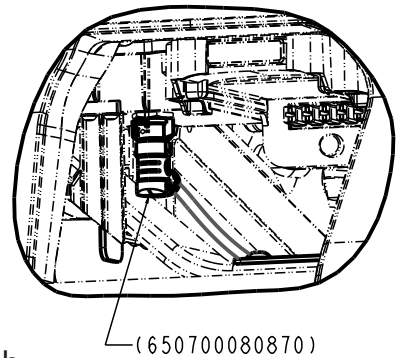
Torque item L  
to 1.77 - 2.39 ft-lb



Torque item M  
to 13.61 - 16.63 ft-lb



Torque item K  
to 3.40 - 4.60 ft-lb

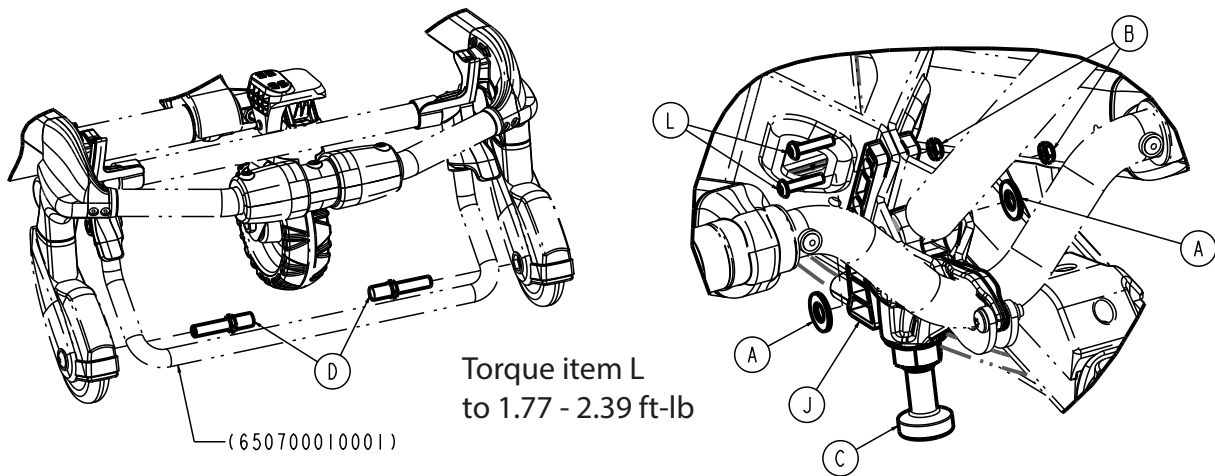


| Item | Number       | Name                      | Quantity |
|------|--------------|---------------------------|----------|
| A    | 0011-004-000 | Flat washer               | 2        |
| B    | 0016-131-000 | Nylock hex nut            | 2        |
| C    | 6392-001-062 | Head end forging assembly | 1        |

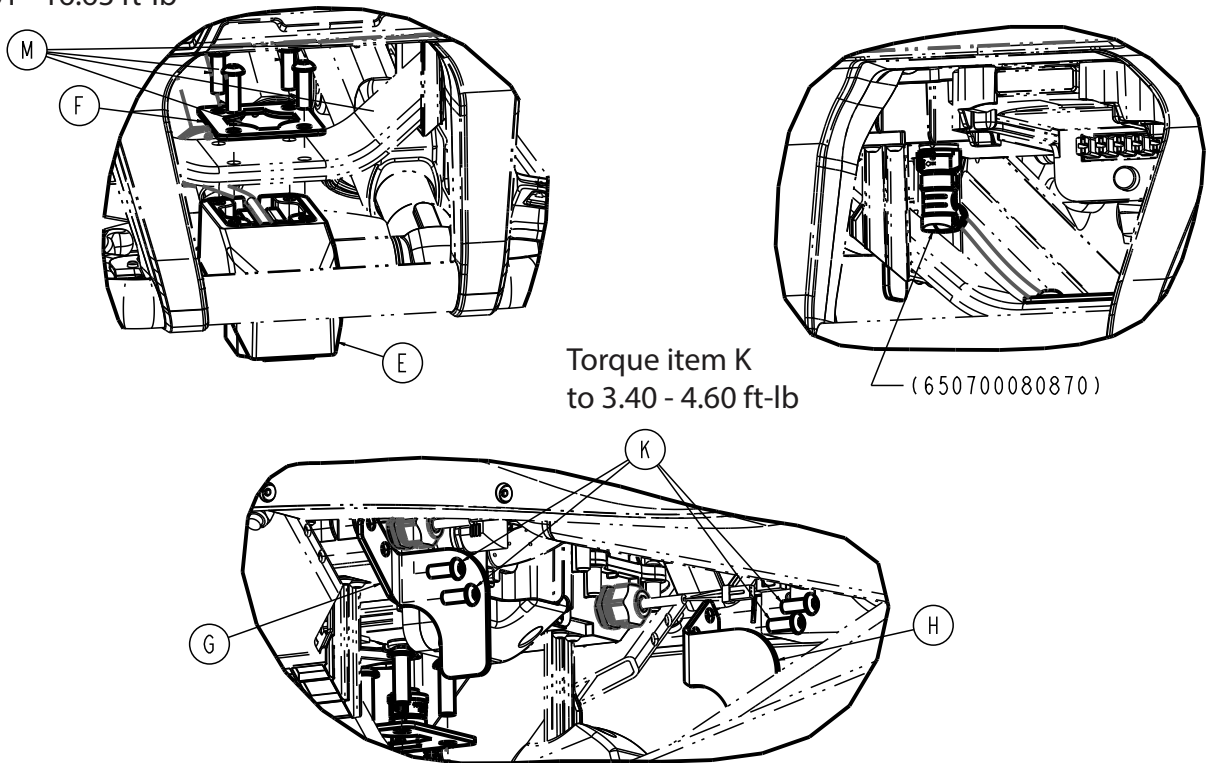
| Item | Number       | Name                                       | Quantity |
|------|--------------|--|----------|
| D    | 6500-002-106 | Load wheel fastener                        | 2        |
| E    | 650700020011 | <i>Hitch assembly, foot end (page 141)</i> | 1        |
| F    | 650700020136 | Hitch bracket plate                        | 1        |
| G    | 650700020187 | Foot end hitch bracket hook, left          | 1        |
| H    | 650700020188 | Foot end hitch bracket hook, right         | 1        |
| J    | 650700080192 | Head end pin stop                          | 1        |
| K    | 700000689546 | Button head cap screw                      | 4        |
| L    | 700000715614 | Button head cap screw                      | 2        |
| M    | 700000715617 | Button head cap screw                      | 4        |

# Power-LOAD and Performance-LOAD fastener

650709990106 Rev AB (Reference only)



Torque item M  
to 13.61 - 16.63 ft-lb



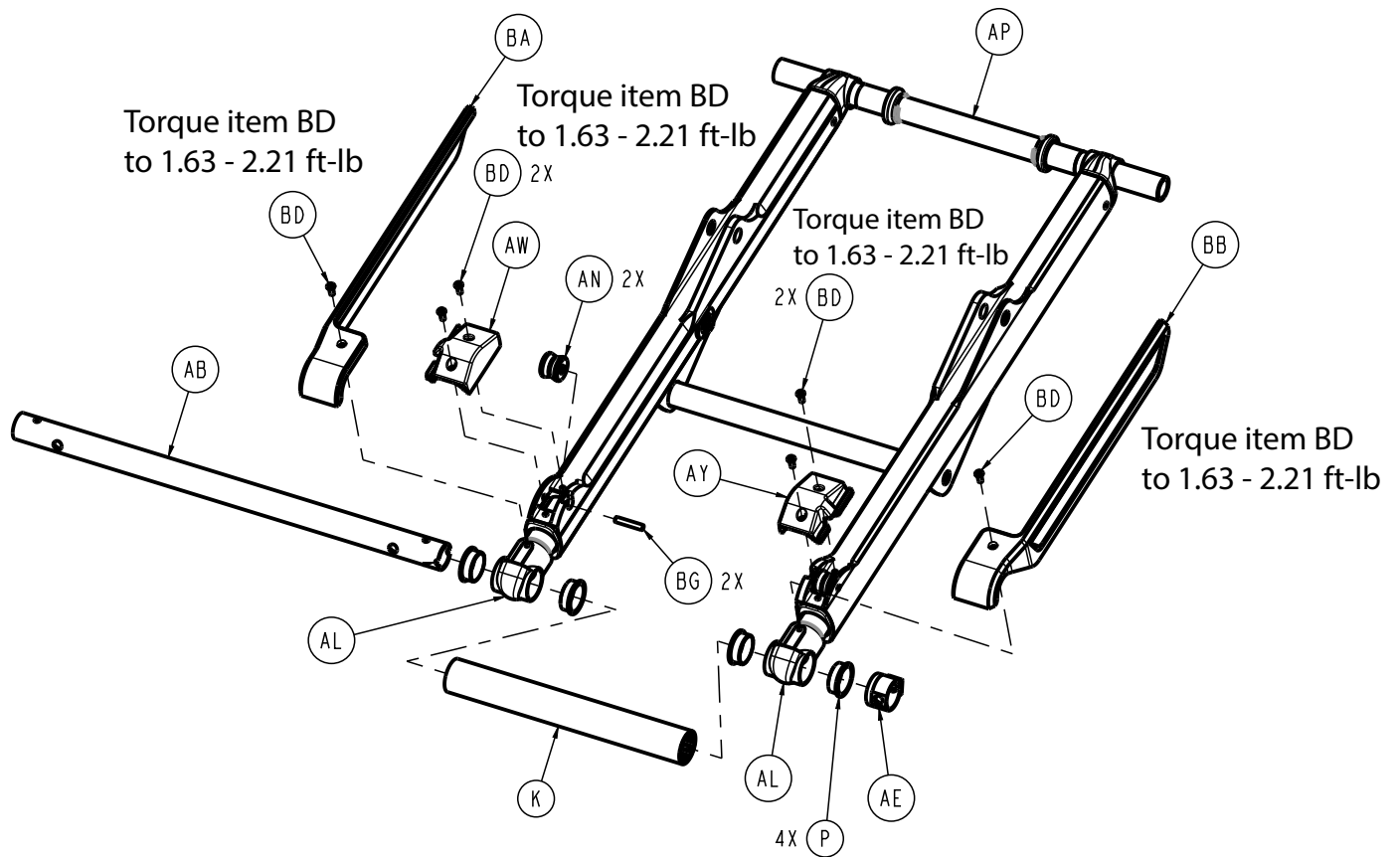
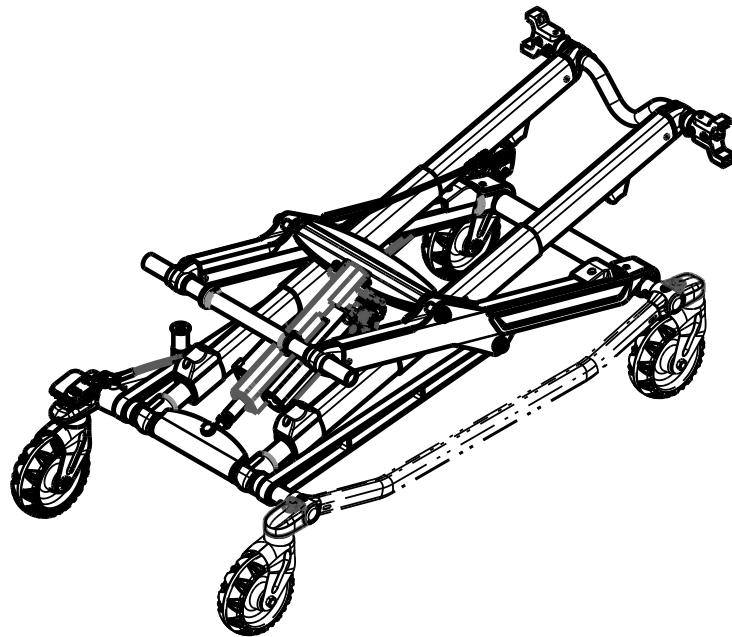
Torque item K  
to 3.40 - 4.60 ft-lb

| Item | Number       | Name                                | Quantity |
|------|--------------|-------------------------------------|----------|
| A    | 0011-004-000 | Flat washer                         | 2        |
| B    | 0016-131-000 | Nylock hex nut                      | 2        |
| C    | 6392-001-062 | Head end forging assembly           | 1        |
| D    | 6500-002-104 | Load wheel pin                      | 2        |
| E    | 650700020011 | Hitch assembly, foot end (page 141) | 1        |
| F    | 650700020136 | Hitch bracket plate                 | 1        |
| G    | 650700020187 | Foot end hitch bracket hook, left   | 1        |
| H    | 650700020188 | Foot end hitch bracket hook, right  | 1        |

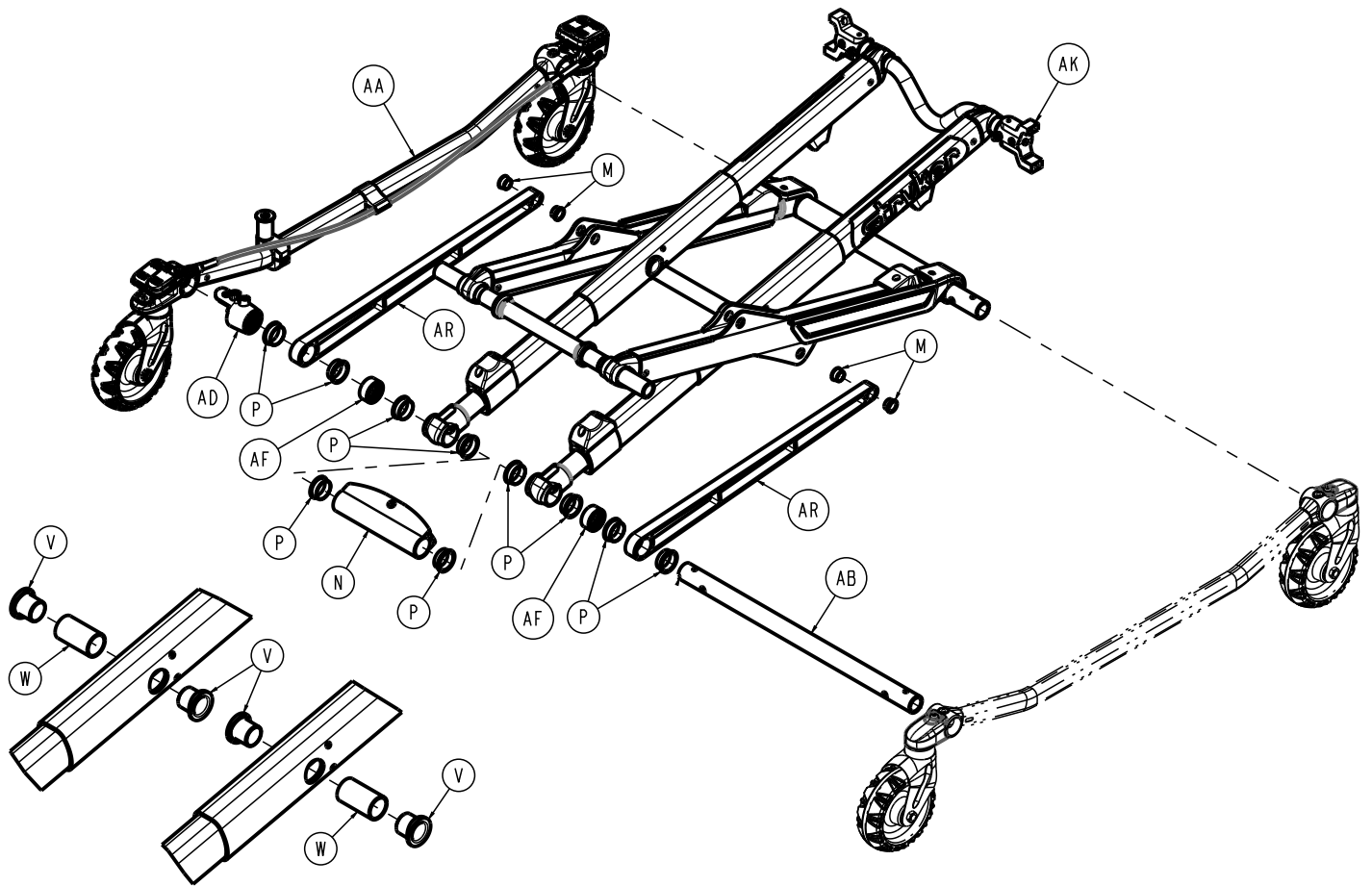
| <b>Item</b> | <b>Number</b> | <b>Name</b>           | <b>Quantity</b> |
|-------------|---------------|-----------------------|-----------------|
| J           | 650700080192  | Head end pin stop     | 1               |
| K           | 700000689546  | Button head cap screw | 4               |
| L           | 700000715614  | Button head cap screw | 2               |
| M           | 700000715617  | Button head cap screw | 4               |

# Lift assembly

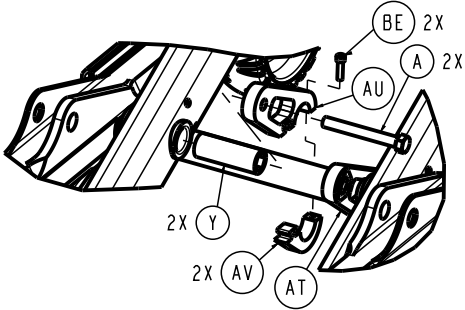
650700010002 Rev AG (Reference only)





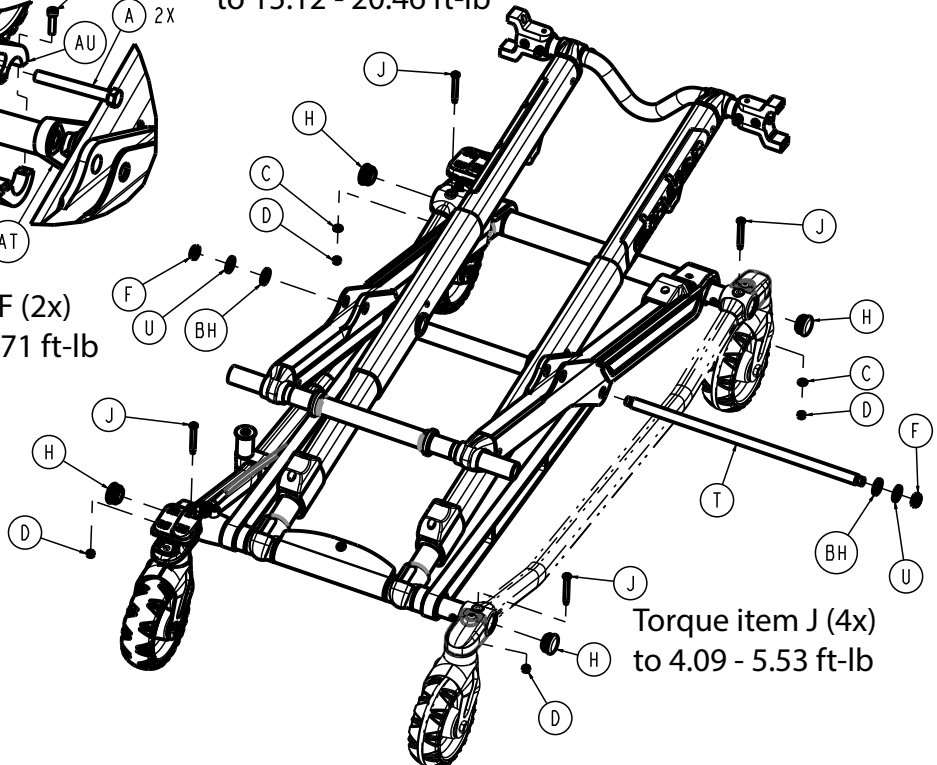


Torque item BE  
to 6.54 - 8.84 ft-lb



Torque item F (2x)  
to 13.09 - 17.71 ft-lb

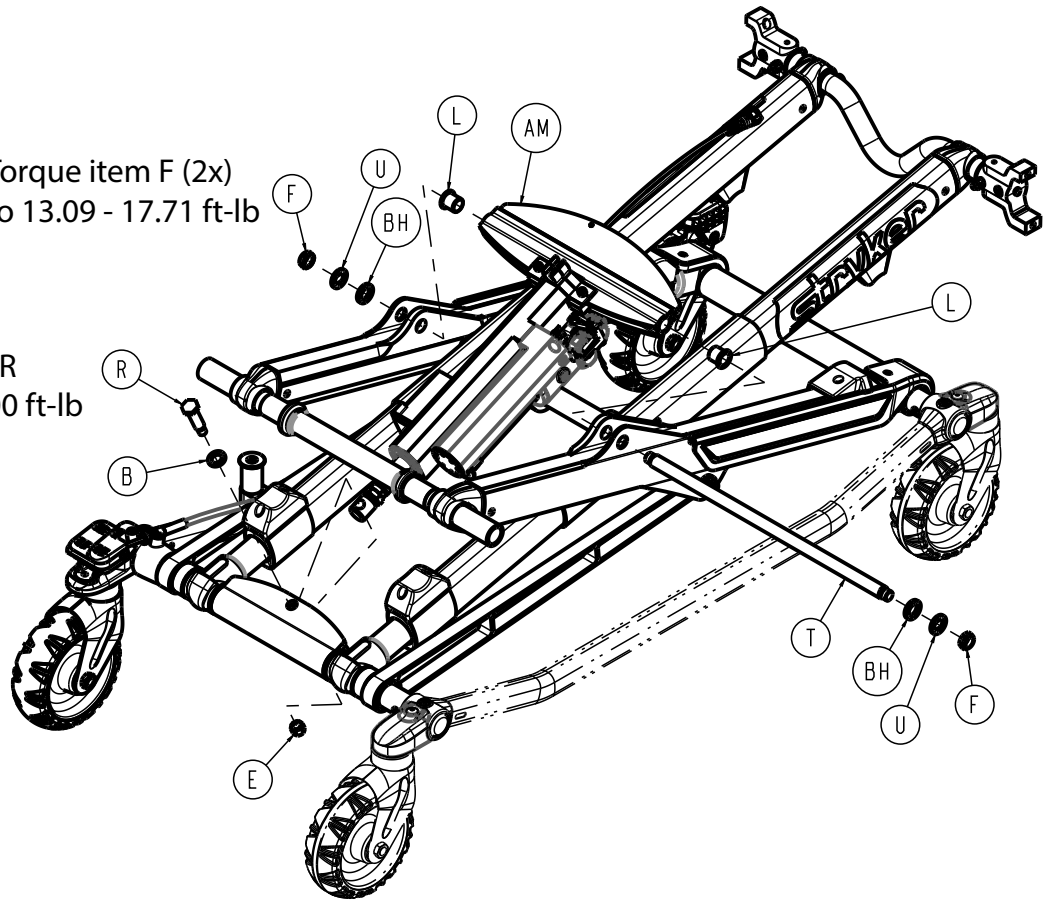
Torque item A  
to 15.12 - 20.46 ft-lb



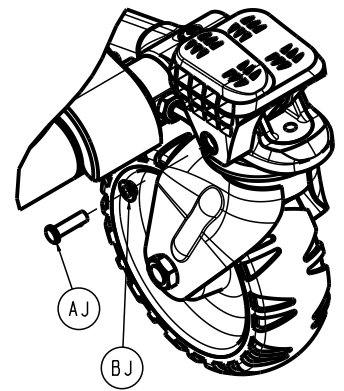
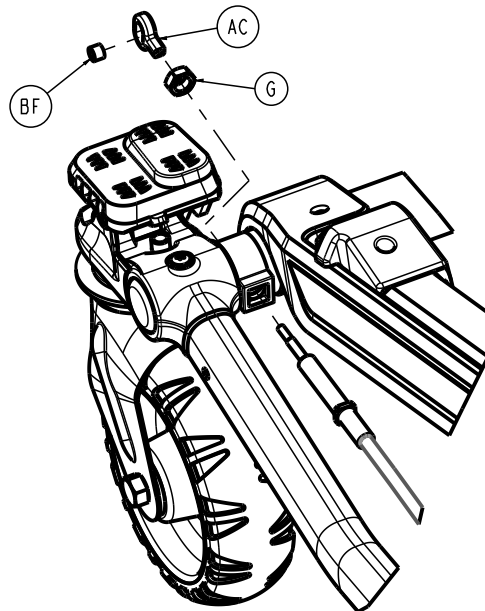
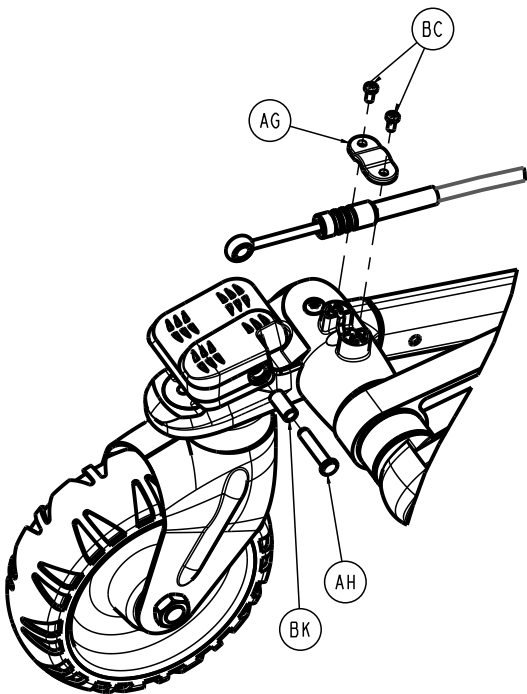
Torque item J (4x)  
to 4.09 - 5.53 ft-lb

Torque item F (2x)  
to 13.09 - 17.71 ft-lb

Torque item R  
to 9.61 - 13.00 ft-lb



Torque item G  
to 6.38 - 8.63 ft-lb

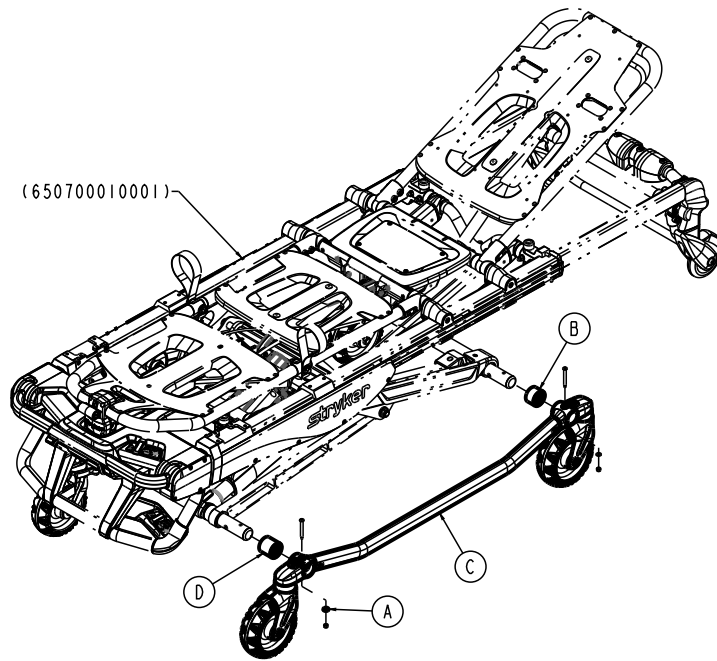


| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| A    | 0003-388-000 | Hex head cap screw                            | 2        |
| B    | 0011-013-000 | Flat washer                                   | 1        |
| C    | 0014-002-000 | Washer  | 2        |
| D    | 0016-002-000 | Fiberlock nut                                 | 4        |
| E    | 0016-035-000 | Nylock hex nut                                | 1        |
| F    | 0016-049-000 | Nylock hex nut                                | 4        |
| G    | 0016-089-000 | Centerlock hex nut                            | 1        |
| H    | 0037-083-000 | Tube plug                                     | 4        |
| J    | 6085-001-097 | Caster mount bolt                             | 4        |
| K    | 6500-001-129 | Plastic extrusion - spacer                    | 1        |
| L    | 6500-001-157 | Flange bearing                                | 2        |
| M    | 6500-001-162 | Flange bearing                                | 4        |
| N    | 6500-001-165 | Cylinder mount, pivot, bottom                 | 1        |
| P    | 6500-001-166 | Flange bearing                                | 14       |
| R    | 6500-001-168 | Rod attachment pin                            | 1        |
| T    | 6500-001-182 | Stiffener bar cross tube                      | 2        |
| U    | 6500-001-225 | D washer                                      | 4        |
| V    | 6500-001-226 | Bearing, pivot, base tube                     | 4        |
| W    | 6500-001-227 | Post, pivot, base tube                        | 2        |
| Y    | 6500-001-341 | Post, pivot, base tube                        | 2        |
| AA   | 650700010003 | <i>Lock base assembly, right (page 120)</i>   | 1        |
| AB   | 650700010104 | Base cross tube, head end                     | 2        |
| AC   | 650700010117 | Slotted eye end                               | 1        |
| AD   | 650700010123 | Brake cable mount, foot end, right            | 1        |
| AE   | 650700010124 | Brake cable mount, head end                   | 1        |
| AF   | 650700010131 | Base spacer, small                            | 2        |
| AG   | 650700010138 | Brake cable mount cover                       | 1        |
| AH   | 650700010146 | Slic pin                                      | 1        |
| AJ   | 650700010147 | Slic pin                                      | 1        |
| AK   | 650700020003 | <i>Inner lift legs assembly (page 128)</i>    | 1        |
| AL   | 650700020006 | <i>Base leg assembly, head end (page 131)</i> | 2        |
| AM   | 650700020007 | <i>Actuator lift assembly (page 132)</i>      | 1        |
| AN   | 650700020009 | External roller assembly                      | 2        |
| AP   | 650700020105 | Outer lift A-frame weldment                   | 1        |
| AR   | 650700020113 | Timing link                                   | 2        |
| AT   | 650700020116 | Pivot support, left                           | 1        |
| AU   | 650700020117 | Pivot support, right                          | 1        |
| AV   | 650700020118 | Pivot support, base                           | 2        |
| AW   | 650700020121 | Roller cover, head end, left                  | 1        |
| AY   | 650700020122 | Roller cover, head end, right                 | 1        |
| BA   | 650700020018 | Base leg guard, left                          | 1        |
| BB   | 650700020019 | Base leg guard, right                         | 1        |
| BC   | 700000687304 | Pan head tapping screw                        | 2        |
| BD   | 700000689499 | Button head cap screw                         | 6        |
| BE   | 700000721218 | Socket head cap screw                         | 2        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>     | <b>Quantity</b> |
|-------------|---------------|-----------------|-----------------|
| BF          | 70000738011   | Bearing, sleeve | 1               |
| BG          | 700001174627  | Dowel pin       | 2               |
| BH          | 70000757370   | Washer          | 4               |
| BJ          | 70000828751   | Bearing, flange | 1               |
| BK          | 700001288868  | Bearing, sleeve | 1               |

# Two wheel lock option - 650709990109

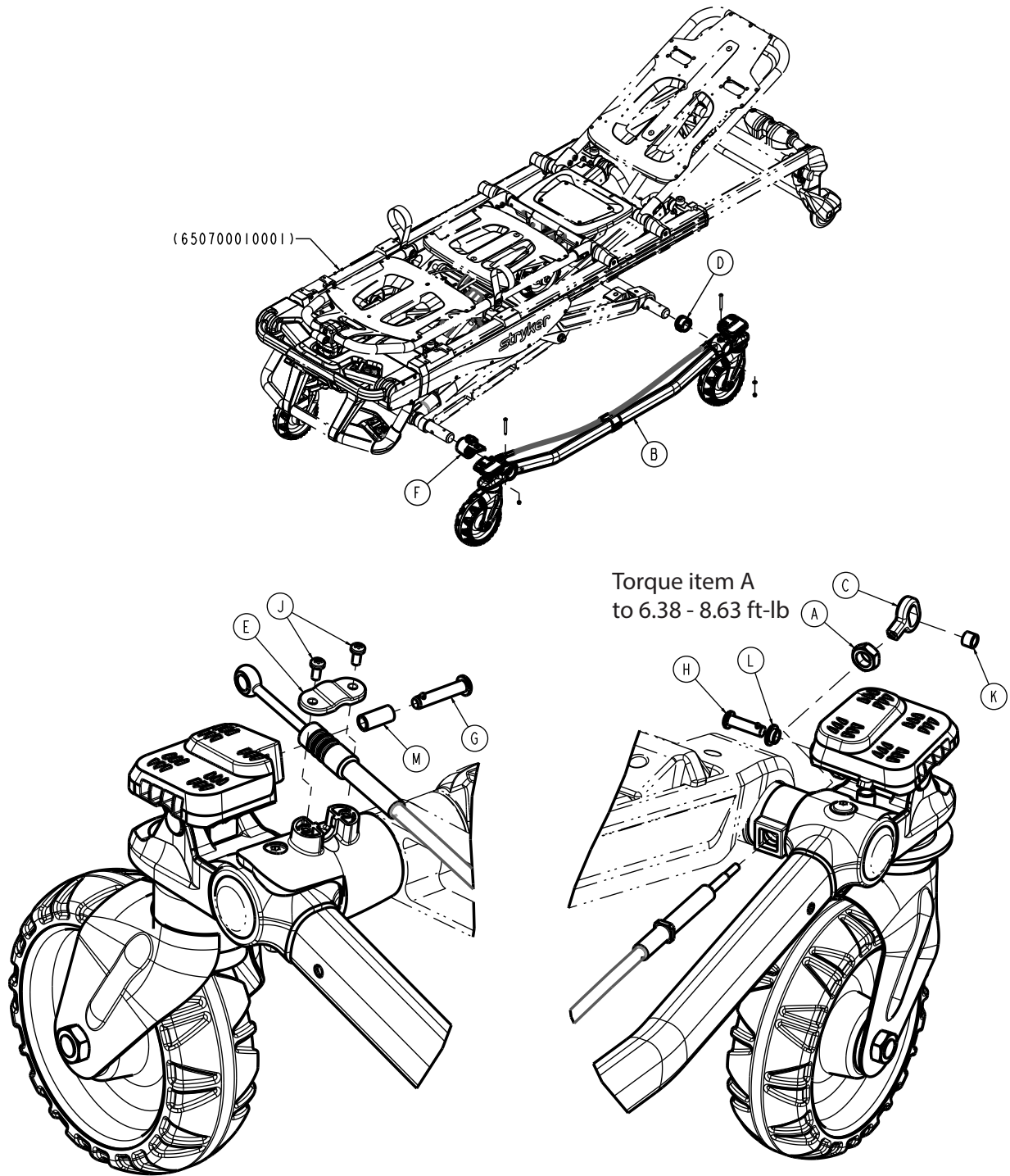
Rev AB (Reference only)



| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 0014-002-000 | Washer   | 1        |
| B    | 6500-001-178 | Plastic extrusion - spacer                     | 1        |
| C    | 650700010004 | <i>Non-lock base assembly, left (page 127)</i> | 1        |
| D    | 650700010129 | Base spacer, large                             | 1        |

# Four wheel lock option - 650709990110

Rev AD (Reference only)



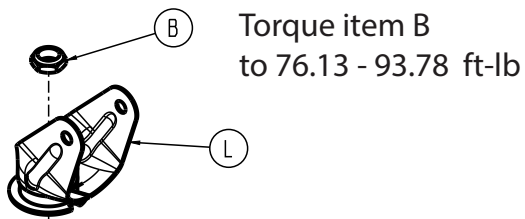
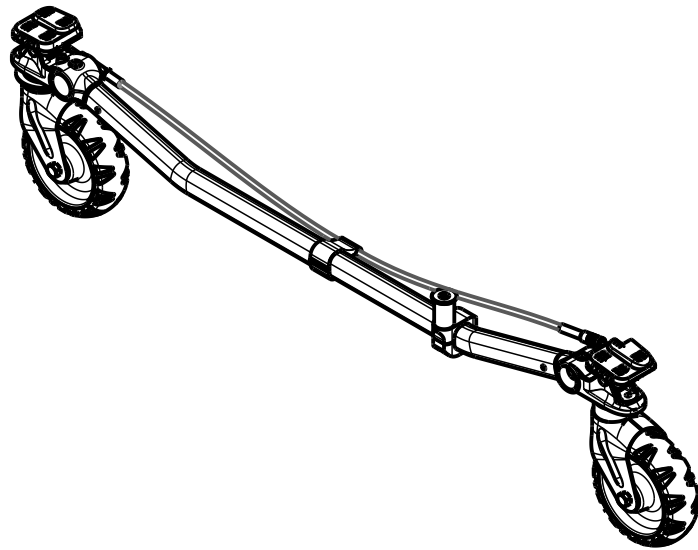
Torque item A  
to 6.38 - 8.63 ft-lb

| Item | Number       | Name                                | Quantity |
|------|--------------|-------------------------------------|----------|
| A    | 0016-089-000 | Centerlock hex nut                  | 1        |
| B    | 650700010006 | Lock base assembly, left (page 124) | 1        |
| C    | 650700010117 | Slotted eye end                     | 1        |
| D    | 650700010124 | Brake cable mount, head end, left   | 1        |
| E    | 650700010138 | Brake cable mount, cover            | 1        |

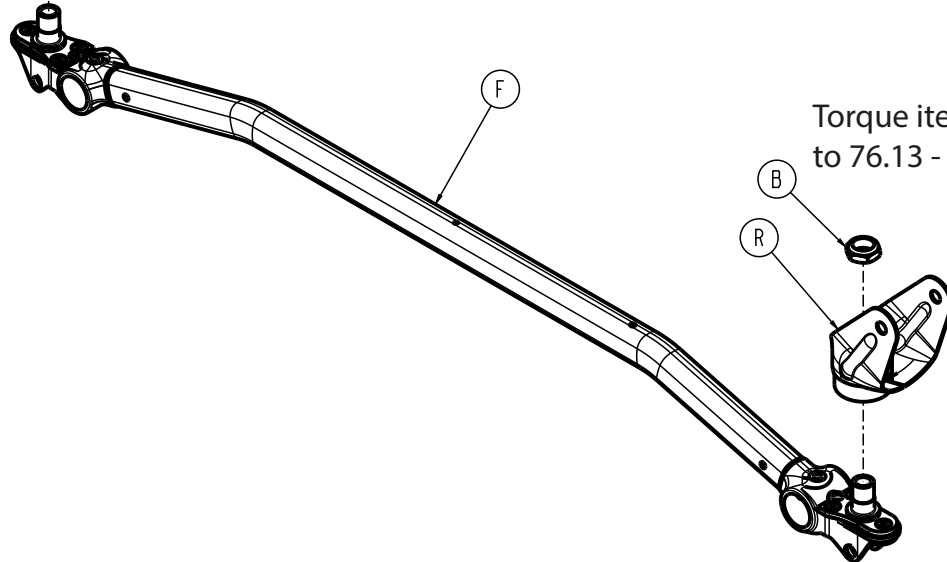
| <b>Item</b> | <b>Number</b> | <b>Name</b>                       | <b>Quantity</b> |
|-------------|---------------|-----------------------------------|-----------------|
| F           | 650700010143  | Brake cable mount, foot end, left | 1               |
| G           | 650700010146  | Slic pin                          | 1               |
| H           | 650700010147  | Slic pin                          | 1               |
| J           | 700000687304  | Pan head tapping screw            | 2               |
| K           | 700000738011  | Bearing, sleeve                   | 1               |
| L           | 700000828751  | Bearing, flange                   | 1               |
| M           | 700001288868  | Bearing, sleeve                   | 1               |

# Lock base assembly, right

650700010003 Rev AF (Reference only)

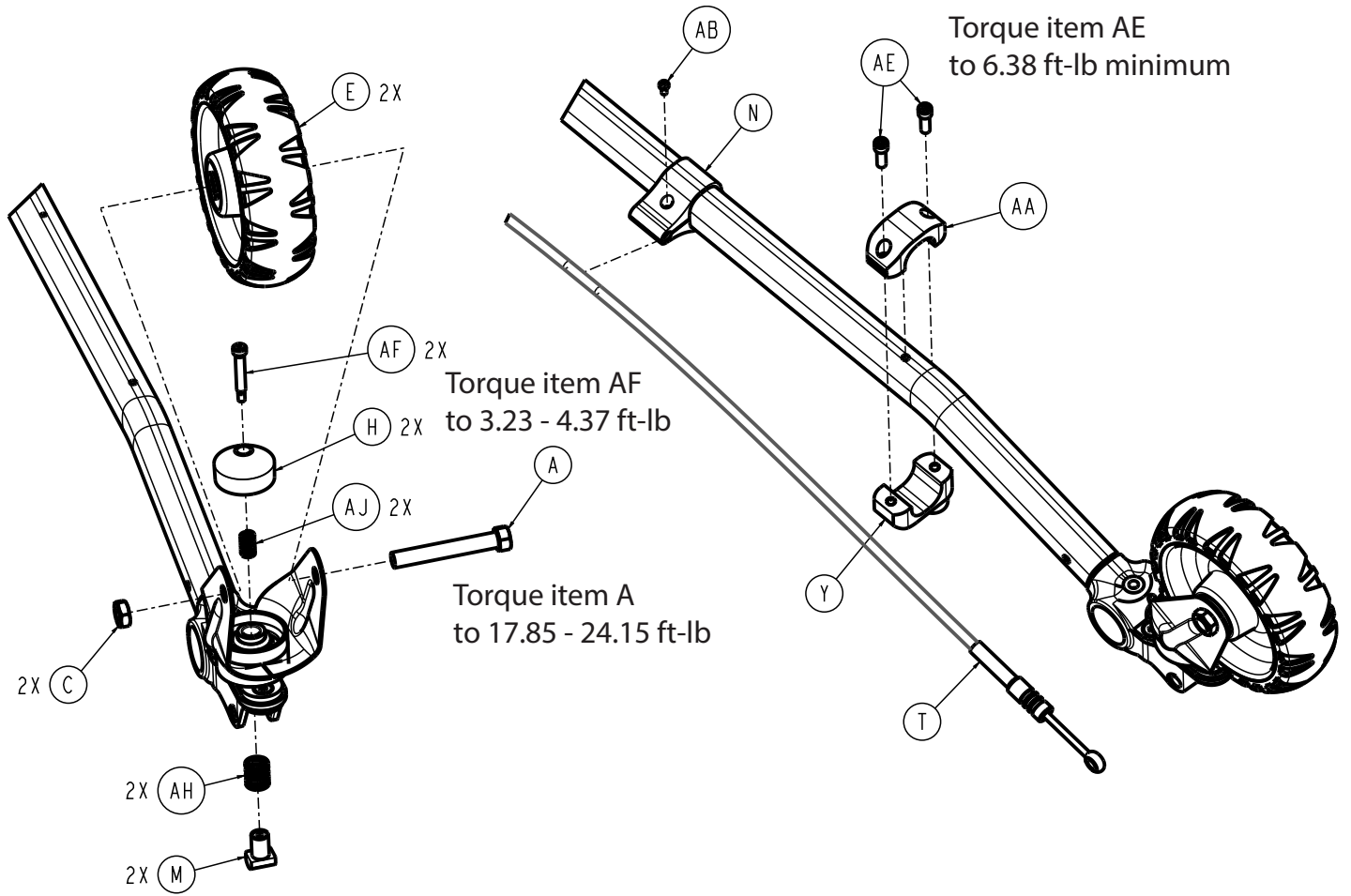


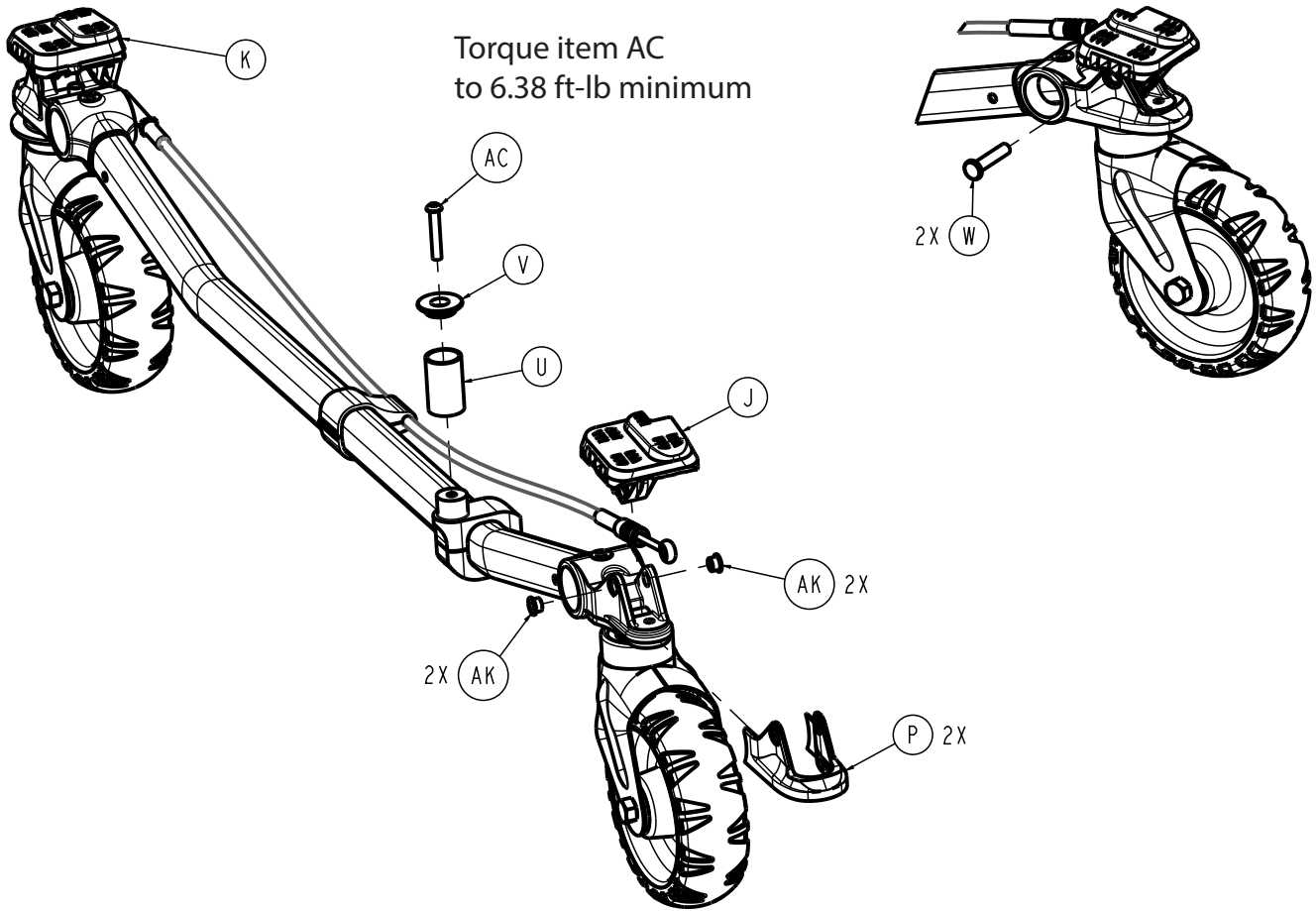
Torque item B  
to 76.13 - 93.78 ft-lb



Torque item B  
to 76.13 - 93.78 ft-lb





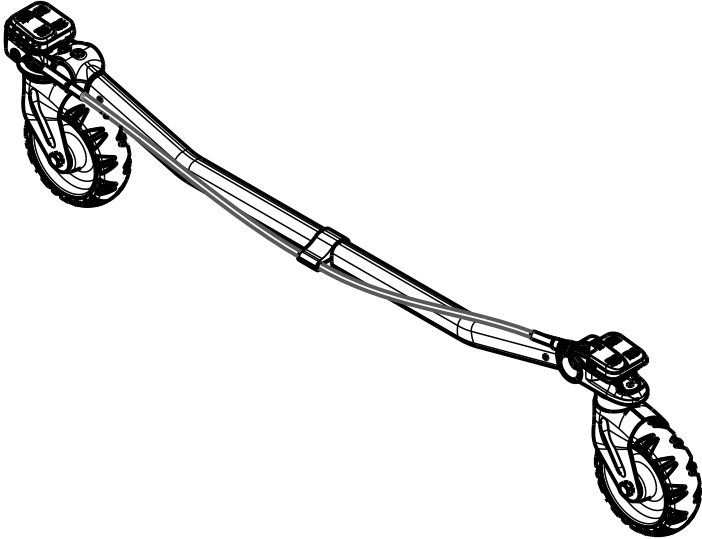


| Item | Number       | Name                           | Quantity |
|------|--------------|--------------------------------|----------|
| A    | 0003-205-000 | Hex head cap screw             | 2        |
| B    | 700000887054 | Nylock hex thin nut            | 2        |
| C    | 0016-060-000 | Toplock hex jam nut            | 2        |
| E    | 6060-002-010 | 6 in. molded wheel assembly    | 2        |
| F    | 650700010013 | Base tube lock assembly        | 1        |
| H    | 650700010107 | Brake pad                      | 2        |
| J    | 650700010108 | Brake pedal, foot end, right   | 1        |
| K    | 650700010109 | Brake pedal, head end, right   | 1        |
| L    | 650700010115 | Steer-Lock caster weldment     | 1        |
| M    | 650700010116 | Caster plunger, overmolded     | 2        |
| N    | 650700010126 | Brake cable guide              | 1        |
| P    | 650700010128 | Caster mount cover, lock       | 2        |
| R    | 650700010130 | Peening, caster, black         | 1        |
| T    | 650700010132 | Brake cable                    | 1        |
| U    | 650700010133 | Retaining post, body           | 1        |
| V    | 650700010134 | Retaining post, cap            | 1        |
| W    | 650700010144 | Slic pin                       | 2        |
| Y    | 650700010148 | Retaining post, top bracket    | 1        |
| AA   | 650700010149 | Retaining post, bottom bracket | 1        |
| AB   | 700000687304 | Pan head tapping screw         | 1        |
| AC   | 700000689591 | Button head cap screw          | 1        |
| AE   | 700000721221 | Socket head cap screw          | 2        |

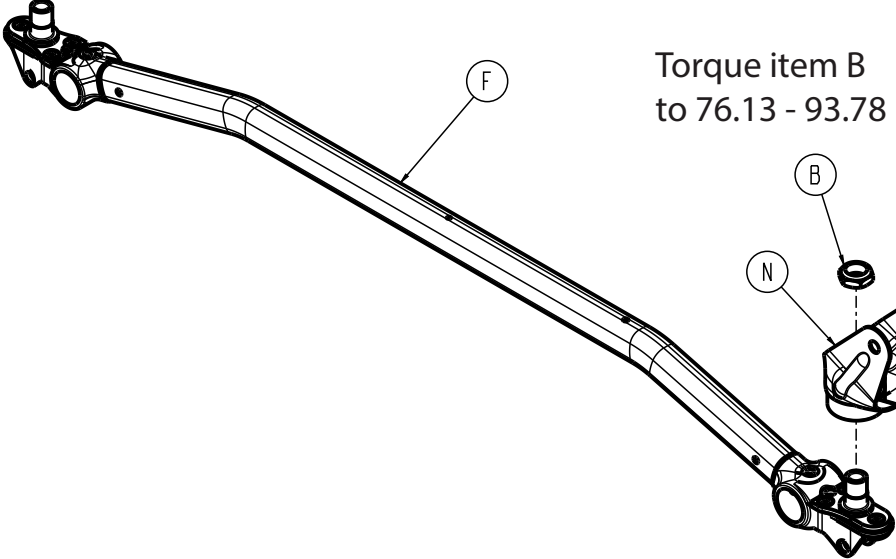
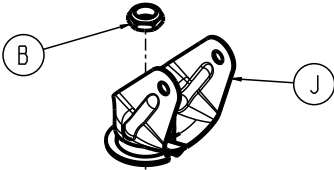
| <b>Item</b> | <b>Number</b> | <b>Name</b>               | <b>Quantity</b> |
|-------------|---------------|---------------------------|-----------------|
| AF          | 70000721316   | Socket head shoulder bolt | 2               |
| AH          | 700001303528  | Compression wire          | 2               |
| AJ          | 700001345315  | Compression wire          | 2               |
| AK          | 70000737997   | Flange bearing            | 4               |

# Lock base assembly, left

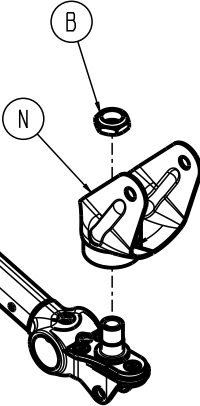
650700010006 Rev AF (Reference only)

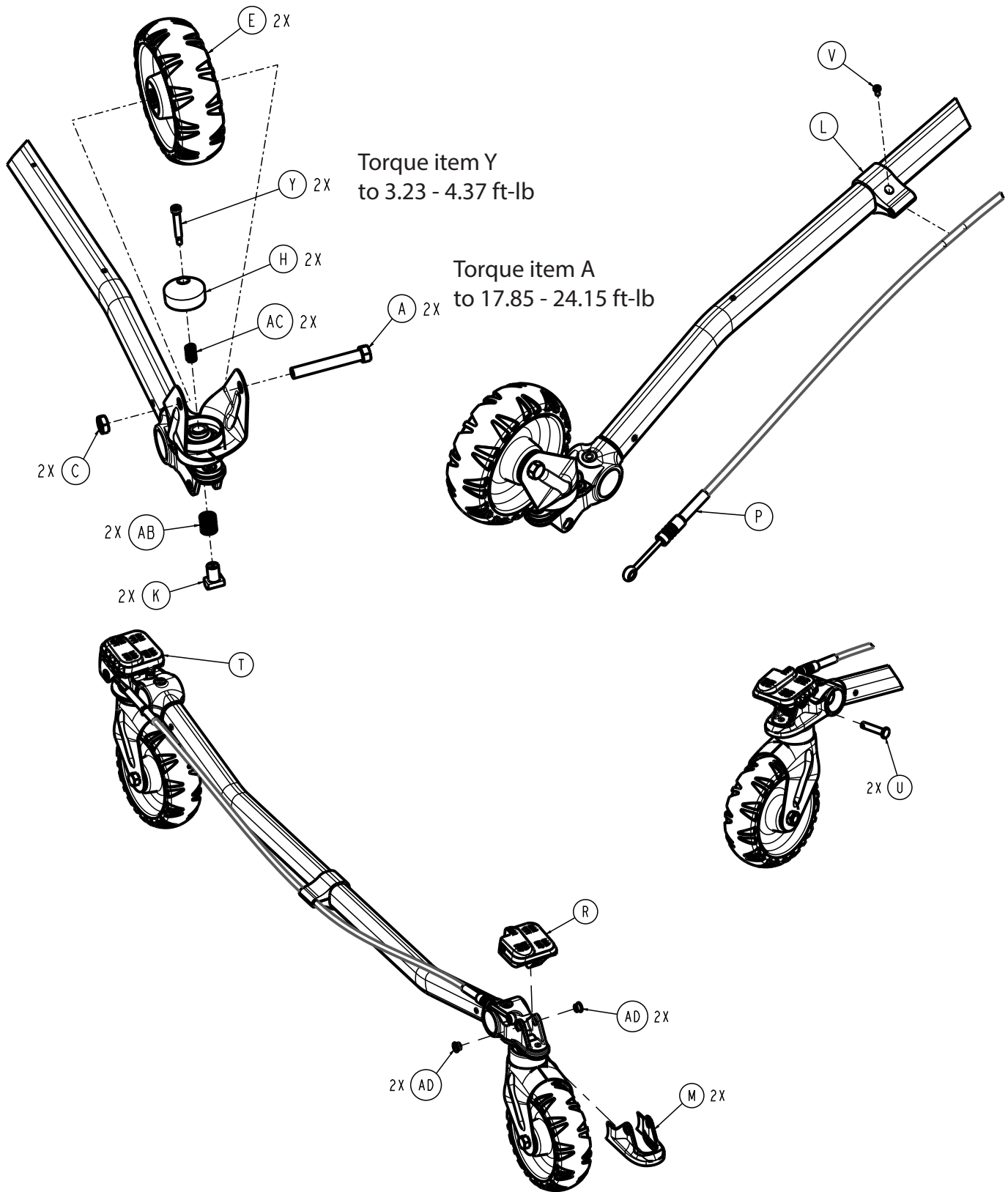


Torque item B  
to 76.13 - 93.78 ft-lb



Torque item B  
to 76.13 - 93.78 ft-lb



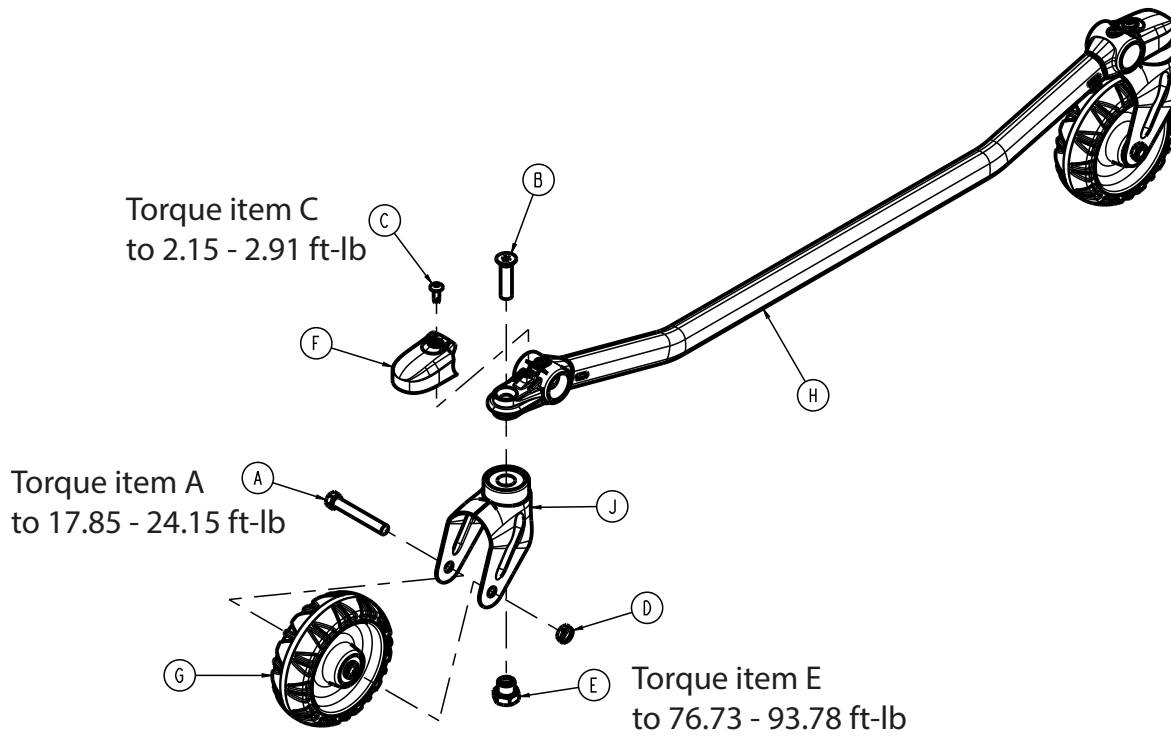


| Item | Number       | Name                        | Quantity |
|------|--------------|-----------------------------|----------|
| A    | 0003-205-000 | Hex head cap screw          | 2        |
| B    | 700000887054 | Nylock hex thin nut         | 2        |
| C    | 0016-060-000 | Toplock hex jam nut         | 2        |
| E    | 6060-002-010 | 6 in. molded wheel assembly | 2        |

| Item | Number       | Name                        | Quantity |
|------|--------------|-----------------------------|----------|
| F    | 650700010013 | Base tube lock assembly     | 1        |
| H    | 650700010107 | Brake pad                   | 2        |
| J    | 650700010115 | Steer-Lock caster weldment  | 1        |
| K    | 650700010116 | Caster plunger, overmolded  | 2        |
| L    | 650700010126 | Brake cable guide           | 1        |
| M    | 650700010128 | Caster mount cover, lock    | 2        |
| N    | 650700010130 | Peening, caster, black      | 1        |
| P    | 650700010132 | Brake cable                 | 1        |
| R    | 650700010141 | Brake pedal, foot end, left | 1        |
| T    | 650700010142 | Brake pedal, head end, left | 1        |
| U    | 650700010144 | Slic pin                    | 2        |
| V    | 700000687304 | Pan head tapping screw      | 1        |
| Y    | 700000721316 | Socket head shoulder bolt   | 2        |
| AB   | 700001303528 | Compression wire            | 2        |
| AC   | 700001345315 | Compression wire            | 2        |
| AD   | 700000737997 | Flange bearing              | 4        |

# Non-lock base assembly, left

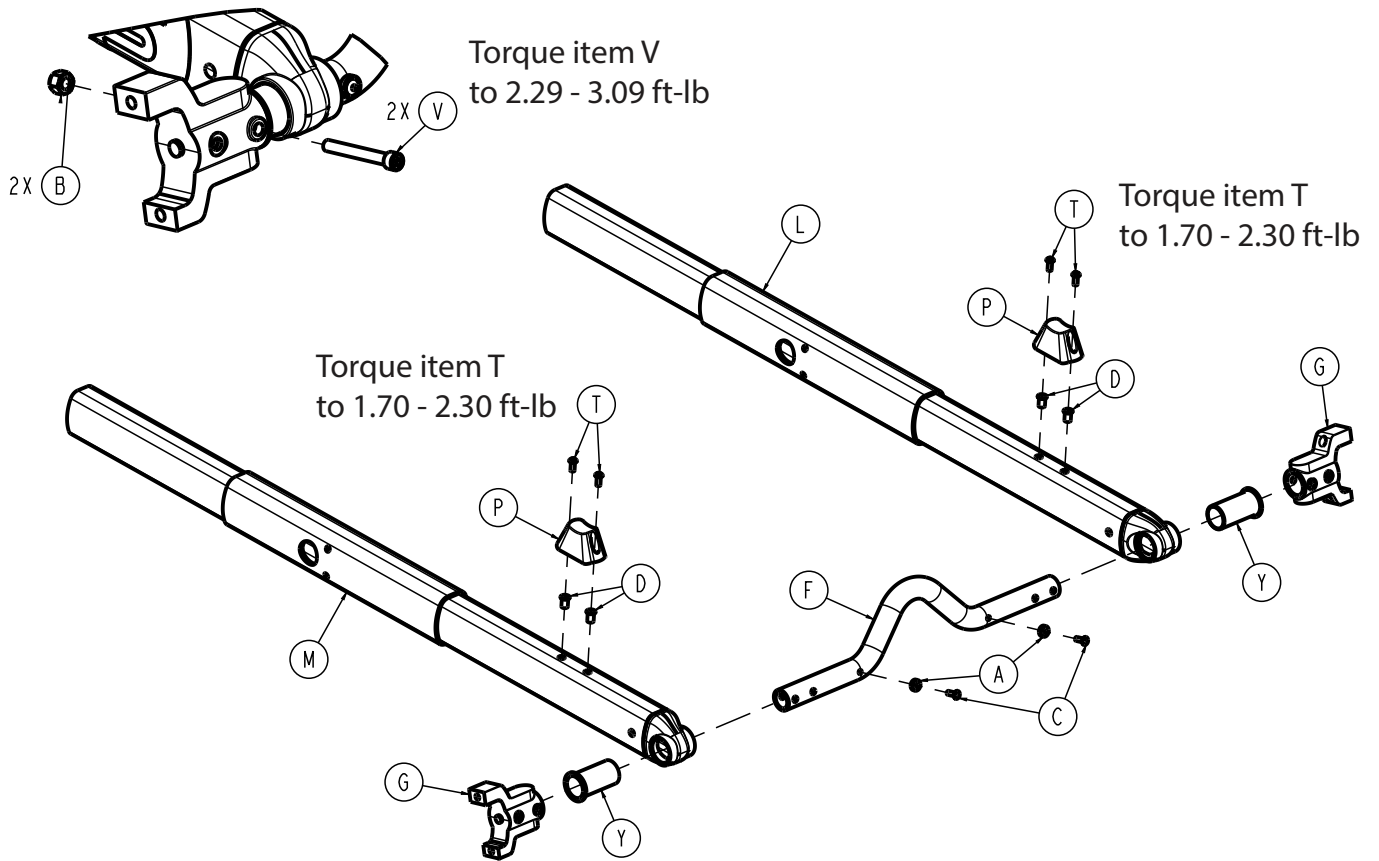
650700010004 Rev AD (Reference only)



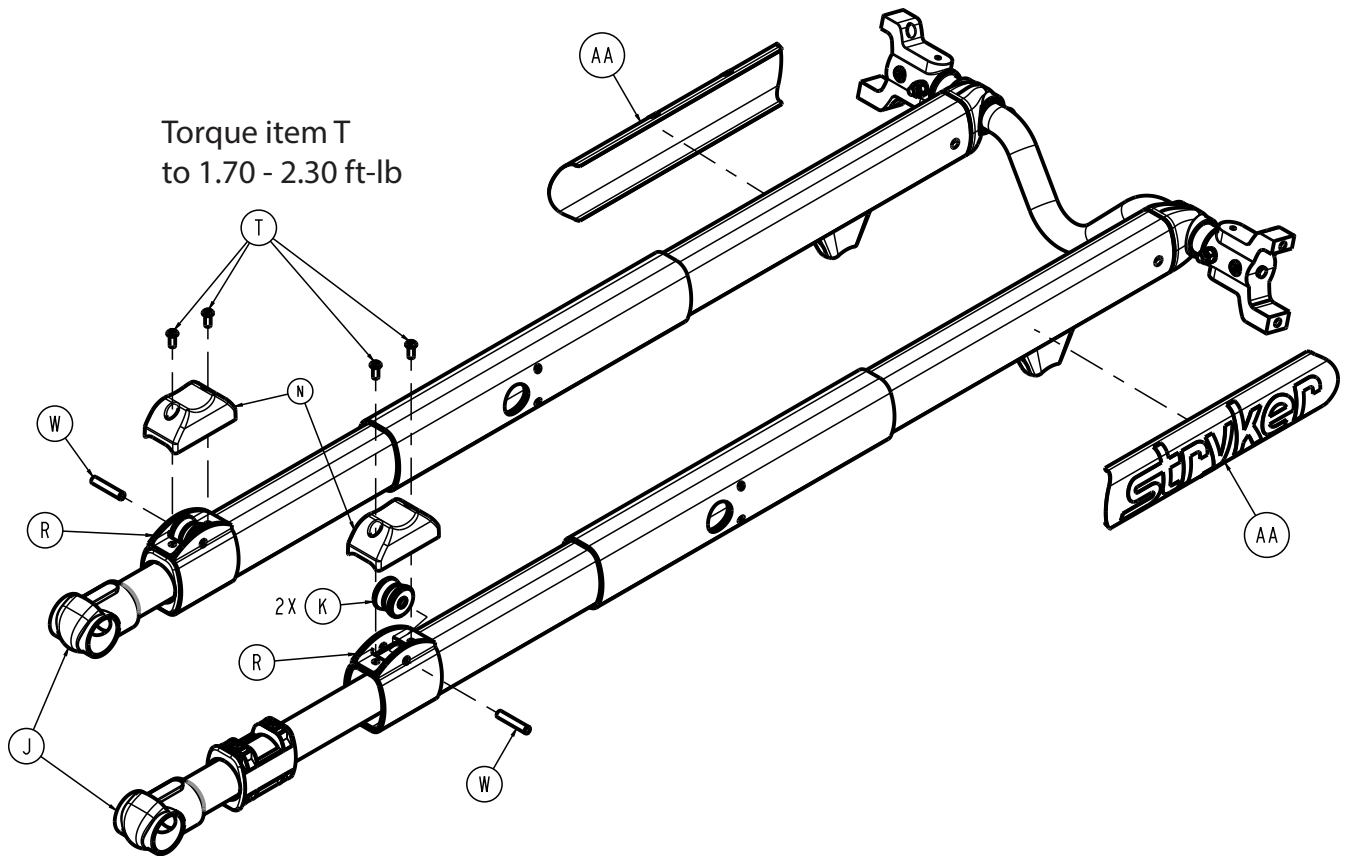
| Item | Number       | Name                        | Quantity |
|------|--------------|-----------------------------|----------|
| A    | 0003-205-000 | Hex head cap screw          | 2        |
| B    | 0004-319-000 | Flat head/hex socket bolt   | 2        |
| C    | 700000719305 | Pan head machine screw      | 2        |
| D    | 0016-060-000 | Toplock hex jam nut         | 2        |
| E    | 6090-001-009 | Caster nut                  | 2        |
| F    | 6500-001-177 | Caster mount cover          | 2        |
| G    | 6060-002-010 | 6 in. molded wheel assembly | 2        |
| H    | 650700010125 | Non-lock base tube weldment | 1        |
| J    | 650700010130 | Peening, caster, black      | 2        |

# Inner lift legs assembly

650700020003 Rev AD (Reference only)



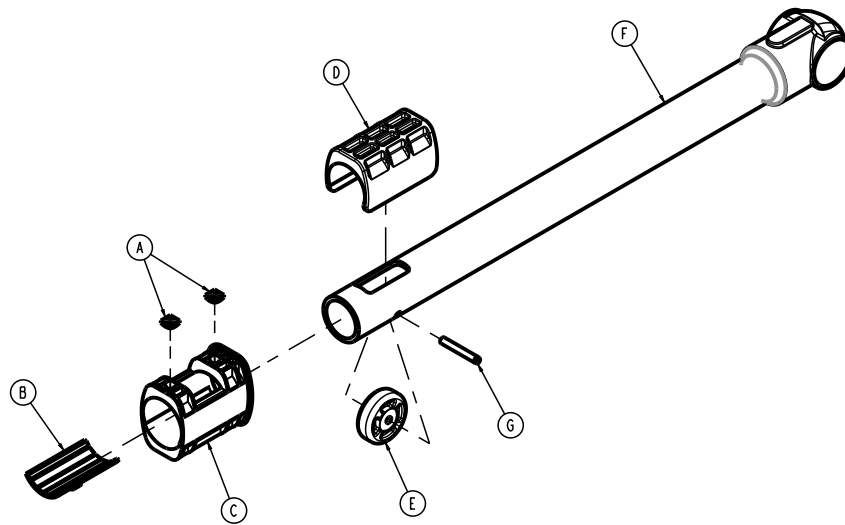




| Item | Number       | Name                                   | Quantity |
|------|--------------|--|----------|
| A    | 0014-115-000 | Washer                                 | 2        |
| B    | 0016-028-000 | Fiberlock hex nut                      | 2        |
| C    | 0025-133-000 | Dome head pop rivet                    | 2        |
| D    | 0055-100-075 | Riv nut                                | 4        |
| F    | 6500-001-090 | Head end cross tube                    | 1        |
| G    | 6500-001-102 | Base/litter interface bracket          | 2        |
| J    | 650700020004 | Base leg assembly, foot end (page 130) | 2        |
| K    | 650700020009 | External roller assembly               | 2        |
| L    | 650700020110 | Inner lift leg weldment, left          | 1        |
| M    | 650700020115 | Inner lift leg weldment, right         | 1        |
| N    | 650700020119 | Foot end roller cover                  | 2        |
| P    | 650700020152 | Dead stop                              | 2        |
| R    | 650700020153 | External roller cover                  | 2        |
| T    | 700000689499 | Button head cap screw                  | 8        |
| V    | 700000721224 | Socket head cap screw                  | 2        |
| W    | 700001174627 | Dowel pin                              | 2        |
| Y    | 650700020112 | Lift flange bearing                    | 2        |
| AA   | 650700010908 | Label, Stryker                         | 2        |

# Base leg assembly, foot end

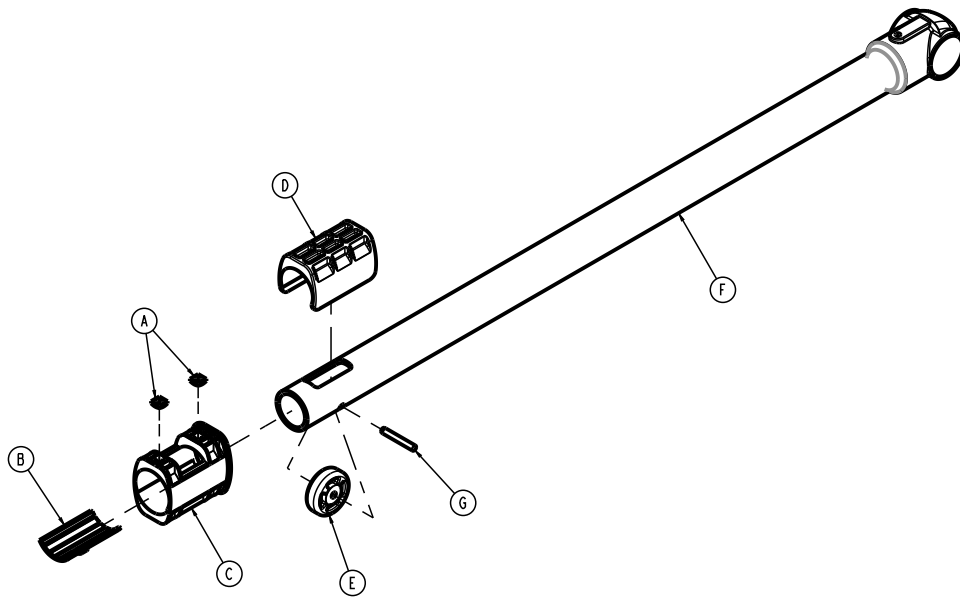
650700020004 Rev AA (Reference only)



| Item | Number       | Name                    | Quantity |
|------|--------------|-------------------------|----------|
| A    | 0015-051-000 | Square nut              | 2        |
| B    | 6500-101-327 | Half shell bearing      | 1        |
| C    | 650700020107 | Bearing housing         | 1        |
| D    | 650700020108 | Internal bearing        | 1        |
| E    | 650700020109 | Internal roller         | 1        |
| F    | 650700020130 | Inner base leg weldment | 1        |
| G    | 700000755477 | Dowel pin               | 1        |

# Base leg assembly, head end

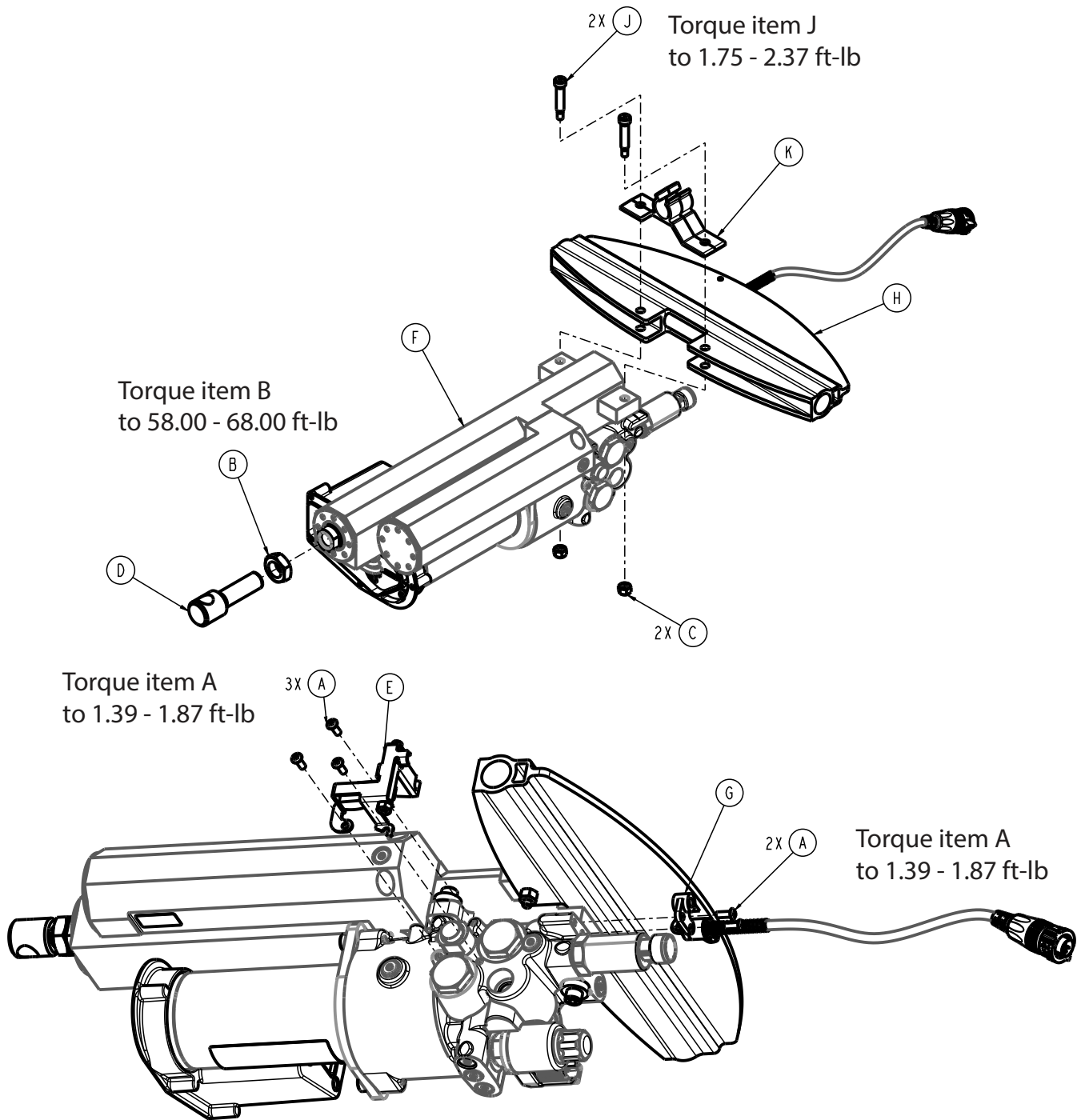
650700020006 Rev AA (Reference only)



| Item | Number       | Name                    | Quantity |
|------|--------------|-------------------------|----------|
| A    | 0015-051-000 | Square nut              | 2        |
| B    | 6500-101-327 | Half shell bearing      | 1        |
| C    | 650700020107 | Bearing housing         | 1        |
| D    | 650700020108 | Internal bearing        | 1        |
| E    | 650700020109 | Internal roller         | 1        |
| F    | 650700020135 | Outer base leg weldment | 1        |
| G    | 700000755477 | Dowel pin               | 1        |

# Actuator lift assembly

650700020007 Rev AG (Reference only)

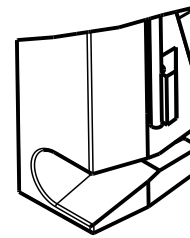
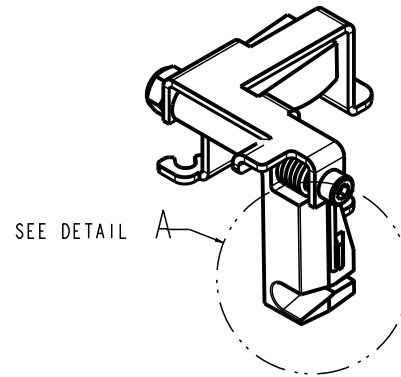
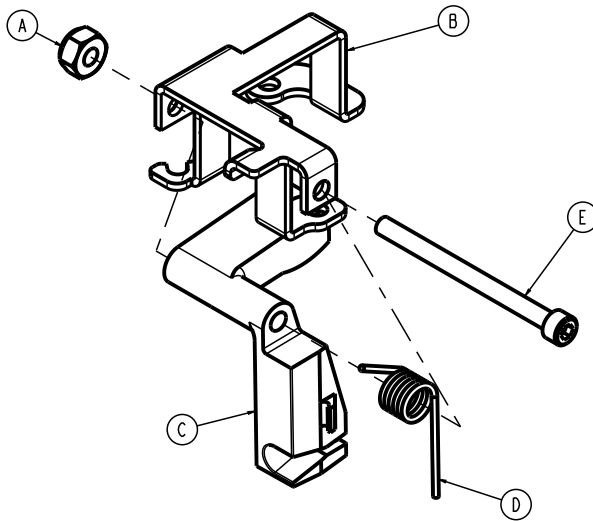


| Item | Number       | Name                                       | Quantity |
|------|--------------|--|----------|
| A    | 700000875213 | Button head cap screw                      | 5        |
| B    | 0015-052-000 | Hex jam nut                                | 1        |
| C    | 0016-002-000 | Fiberlock nut                              | 2        |
| D    | 6500-001-169 | Rod end, cylinder                          | 1        |
| E    | 650700020008 | Manual release bracket assembly (page 134) | 1        |
| F    | 650700020027 | Actuator assembly                          | 1        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>                  | <b>Quantity</b> |
|-------------|---------------|------------------------------|-----------------|
| G           | 650700020161  | Manual release cable bracket | 1               |
| H           | 650700080896  | Strain gauge cable assembly  | 1               |
| J           | 0008-030-000  | Socket head shoulder bolt    | 2               |
| K           | 650700020211  | Motor cable clip             | 1               |

# Manual release bracket assembly

650700020008 Rev AB (Reference only)

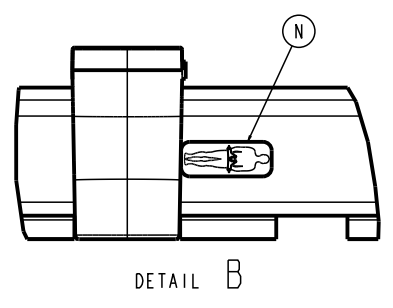
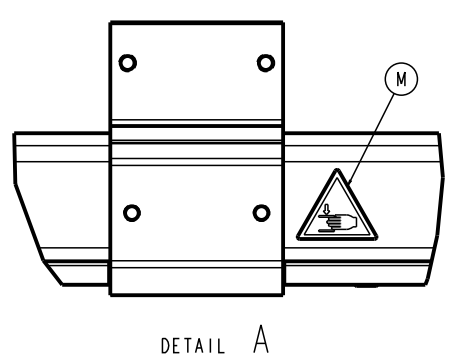
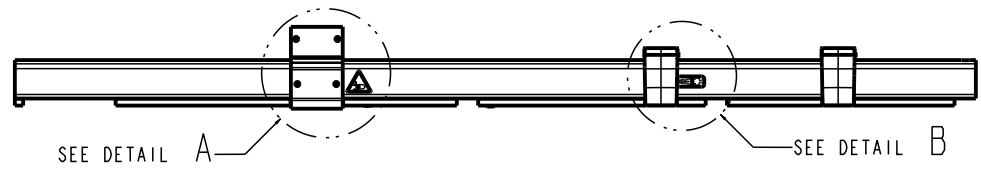
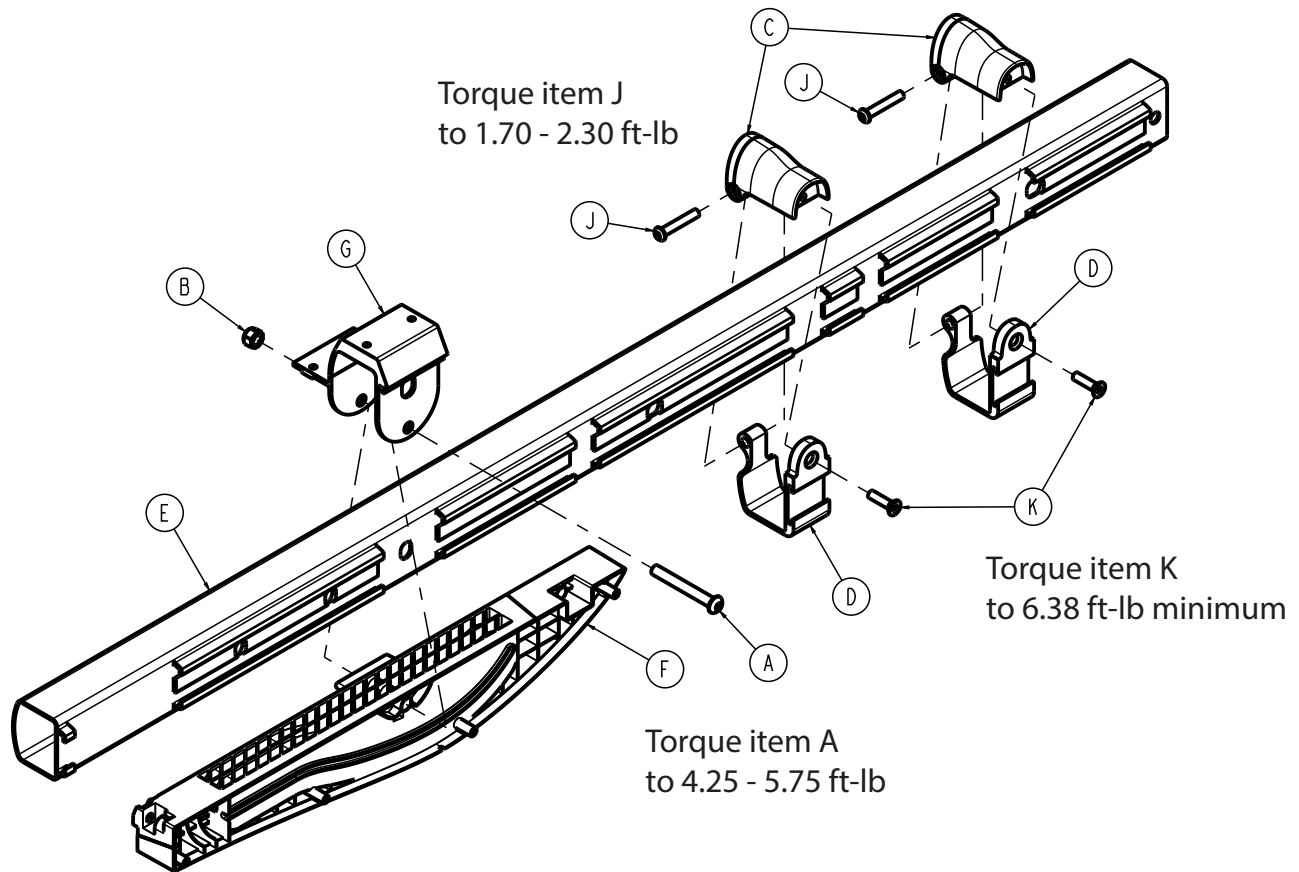


DETAIL A

| Item | Number       | Name                   | Quantity |
|------|--------------|------------------------|----------|
| A    | 0016-023-000 | Nylon hex nut          | 1        |
| B    | 650700020157 | Manual release bracket | 1        |
| C    | 650700020158 | Manual release finger  | 1        |
| D    | 650700020159 | Manual release spring  | 1        |
| E    | 700000721239 | Socket head cap screw  | 1        |

# Outer rail assembly, left

650700020012 Rev AD (Reference only)



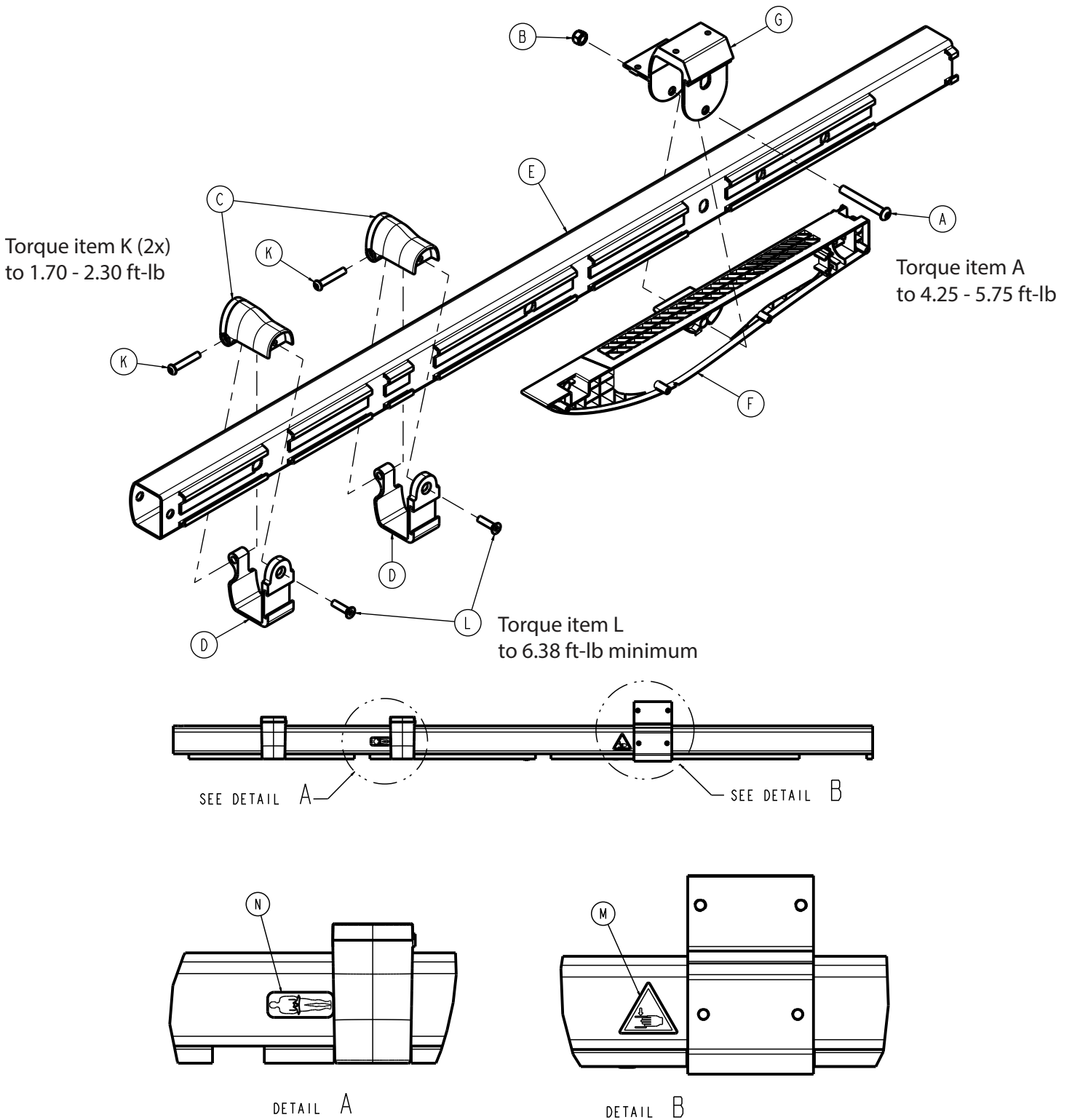
| Item | Number       | Name                             | Quantity |
|------|--------------|----------------------------------|----------|
| A    | 0004-512-000 | Button head cap screw            | 1        |
| B    | 0016-036-000 | Nylock hex nut                   | 1        |
| C    | 6500-002-130 | Litter support bracket, machined | 2        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>                              | <b>Quantity</b> |
|-------------|---------------|--|-----------------|
| D           | 6500-002-131  | Litter support bracket, inner, machining | 2               |
| E           | 650700020127  | Outer rail                               | 1               |
| F           | 650700020139  | Slider block, left                       | 1               |
| G           | 650700020144  | Gatch cross tube bracket                 | 1               |
| J           | 700000689591  | Button head cap screw                    | 2               |
| K           | 700000718346  | Socket flat countersunk head cap screw   | 2               |
| M           | 650700010903  | Label, pinch point                       | 1               |
| N           | 650700010910  | Label, restraint, frame, waist           | 1               |



# Outer rail assembly, right

650700020013 Rev AD (Reference only)

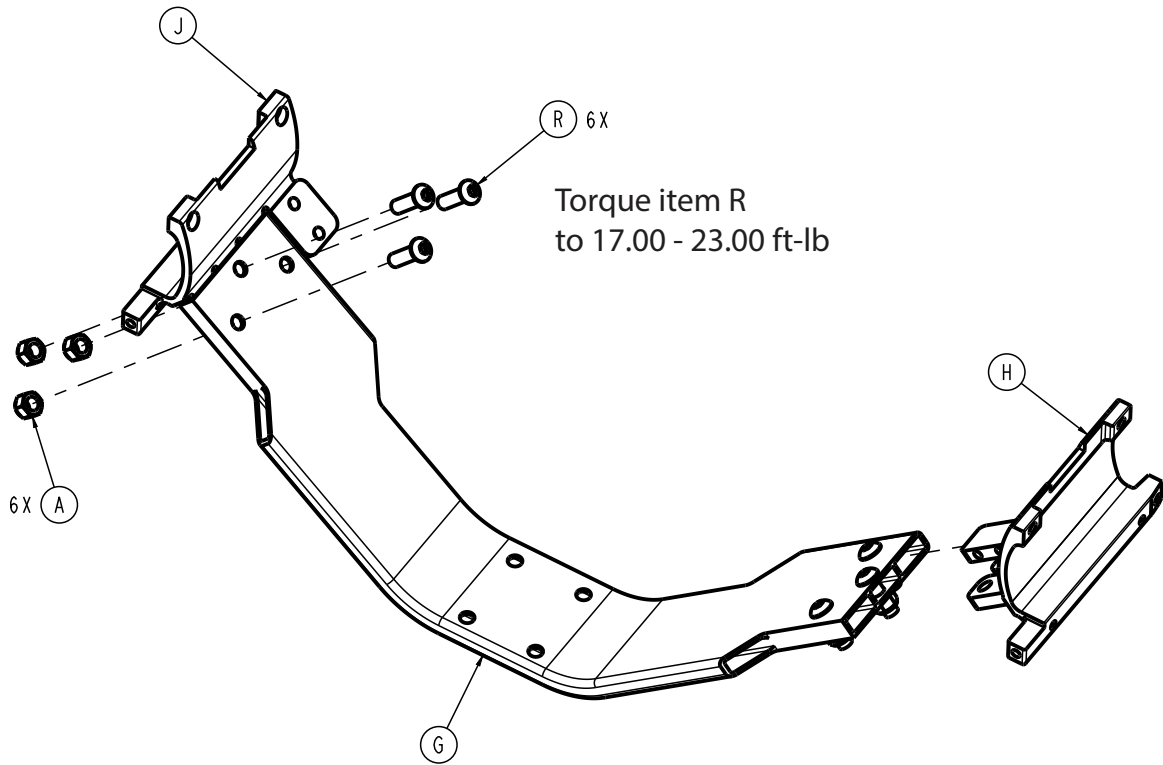
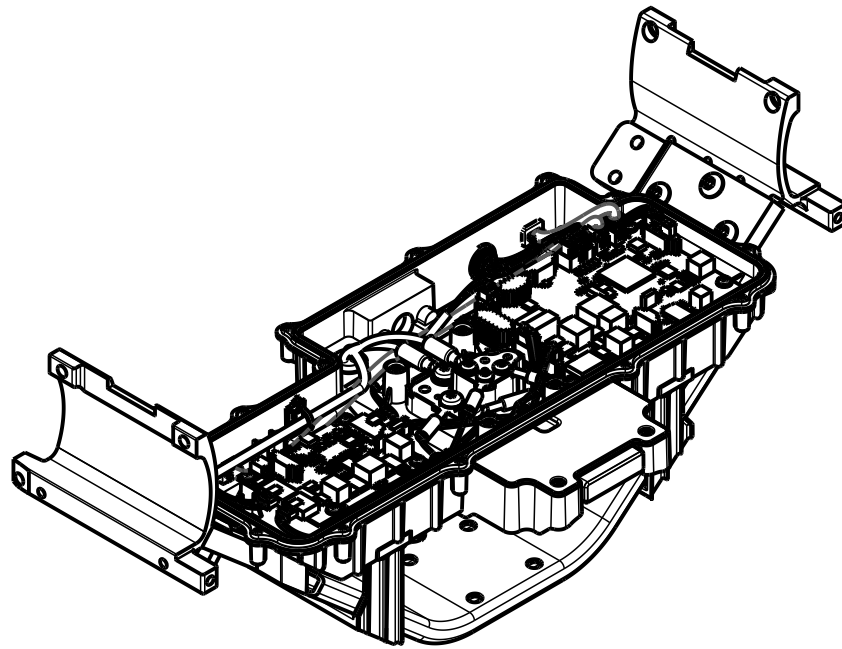


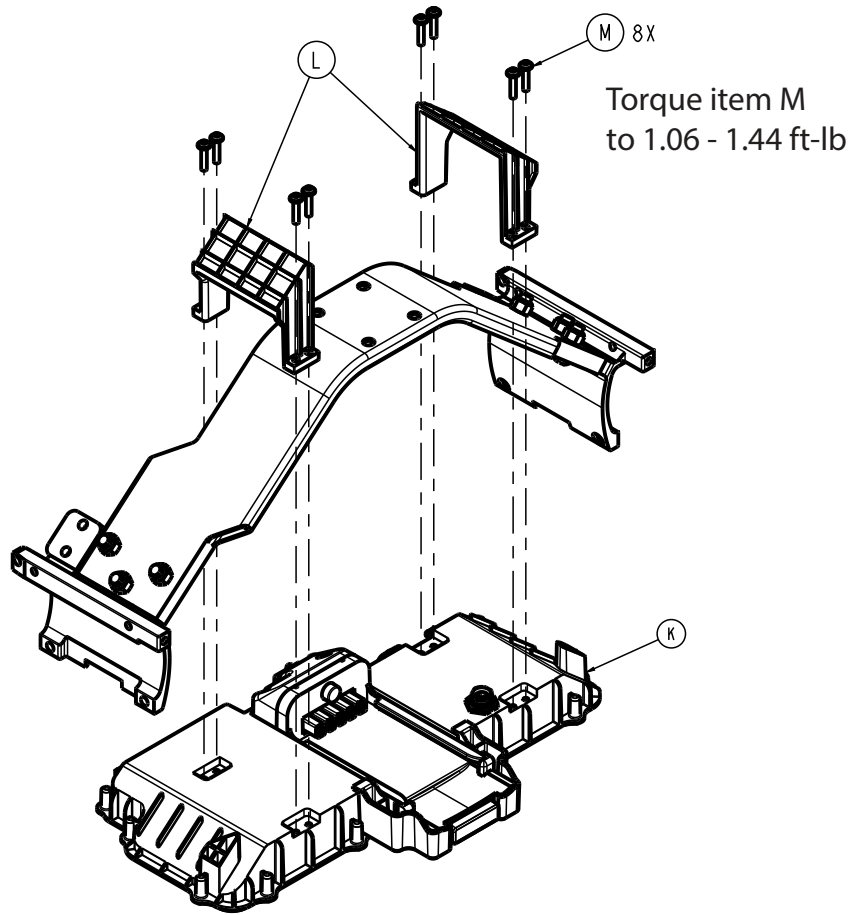
| Item | Number       | Name                             | Quantity |
|------|--------------|----------------------------------|----------|
| A    | 0004-512-000 | Button head cap screw            | 1        |
| B    | 0016-036-000 | Nylock hex nut                   | 1        |
| C    | 6500-002-130 | Litter support bracket, machined | 2        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>                              | <b>Quantity</b> |
|-------------|---------------|--|-----------------|
| D           | 6500-002-131  | Litter support bracket, inner, machining | 2               |
| E           | 650700020127  | Outer rail                               | 1               |
| F           | 650700020141  | Slider block, right                      | 1               |
| G           | 650700020144  | Gatch cross tube bracket                 | 1               |
| K           | 700000689591  | Button head cap screw                    | 2               |
| L           | 700000718346  | Socket flat countersunk head cap screw   | 2               |
| M           | 650700010903  | Label, pinch point                       | 1               |
| N           | 650700010910  | Label, restraint, frame, waist           | 1               |

# Hitch bracket assembly, foot end

650700020001 Rev AD (Reference only)

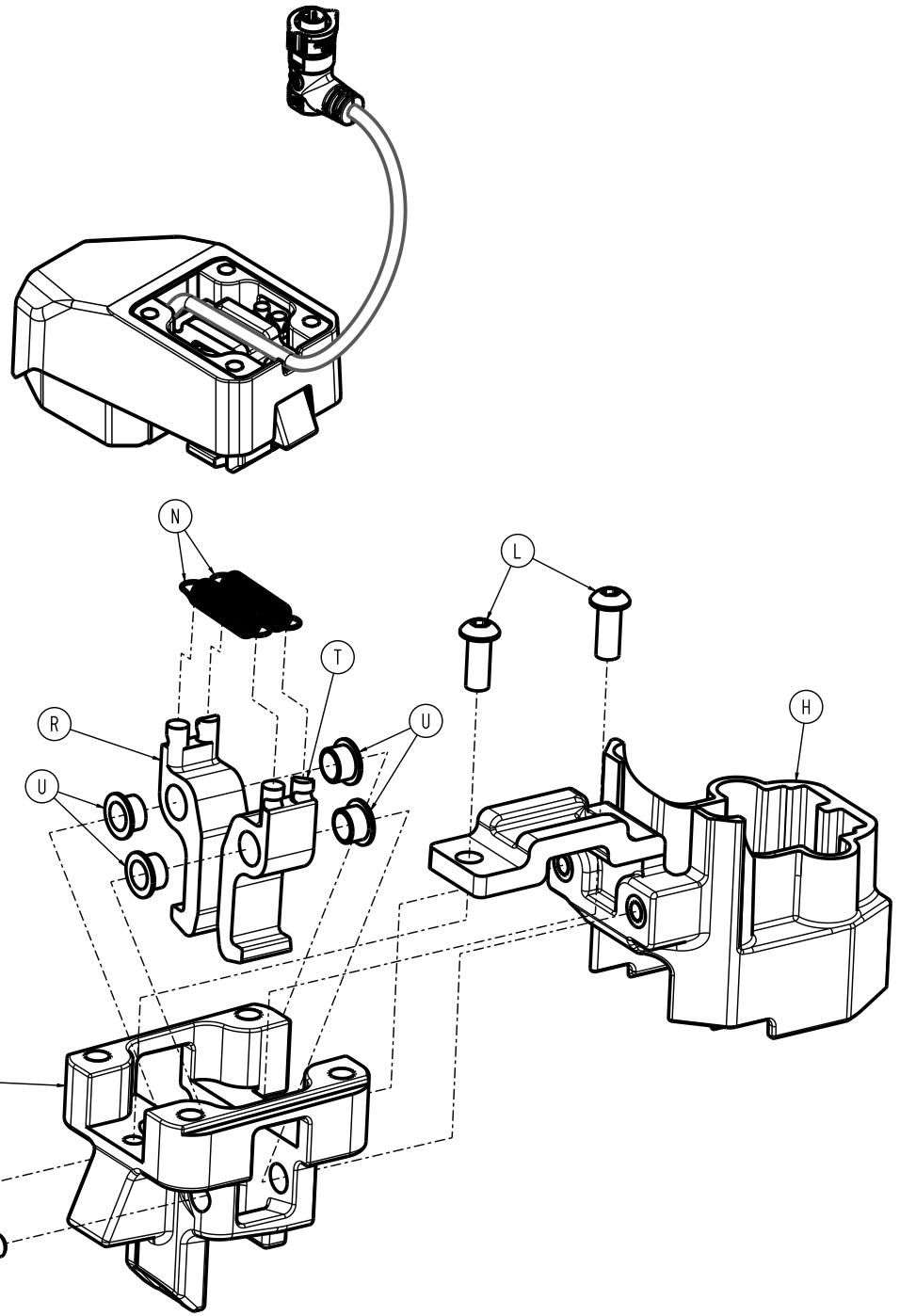




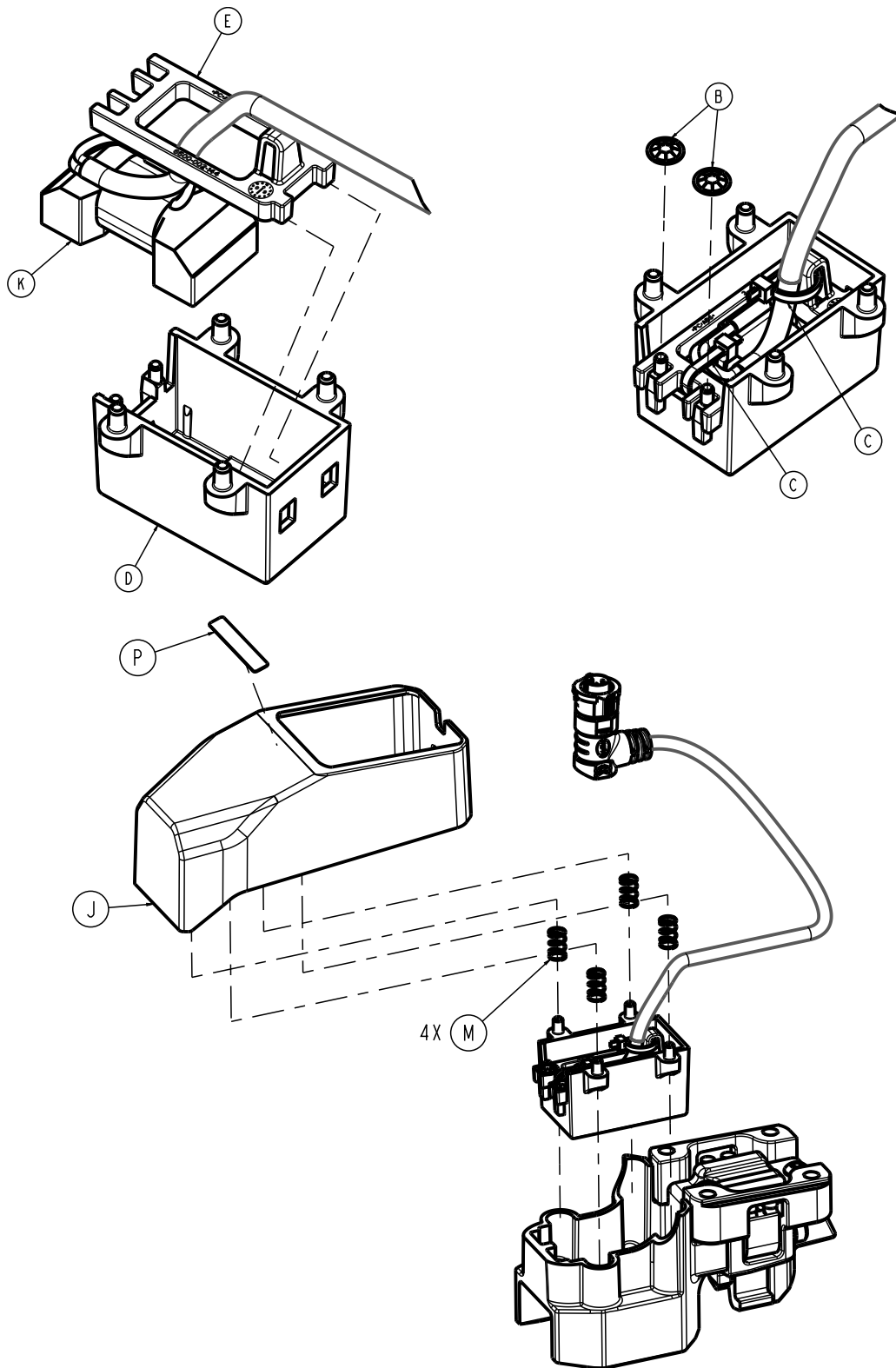
| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| A    | 0016-036-000 | Nylock hex nut                                      | 6        |
| G    | 650700020132 | Hitch bracket                                       | 1        |
| H    | 650700020133 | Hitch bracket, I-clamp, left                        | 1        |
| J    | 650700020134 | Hitch bracket, I-clamp, right                       | 1        |
| K    | 650700080009 | Foot end interface board (FEIB) assembly (page 144) | 1        |
| L    | 650700080127 | FEIB mounting bracket                               | 2        |
| M    | 700000687745 | Round washer head tapping screw                     | 8        |
| R    | 700000715617 | Button head cap screw                               | 6        |

# Hitch assembly, foot end

650700020011 Rev AE (Reference only)



Torque item A  
to 3.90 - 4.76 ft-lb

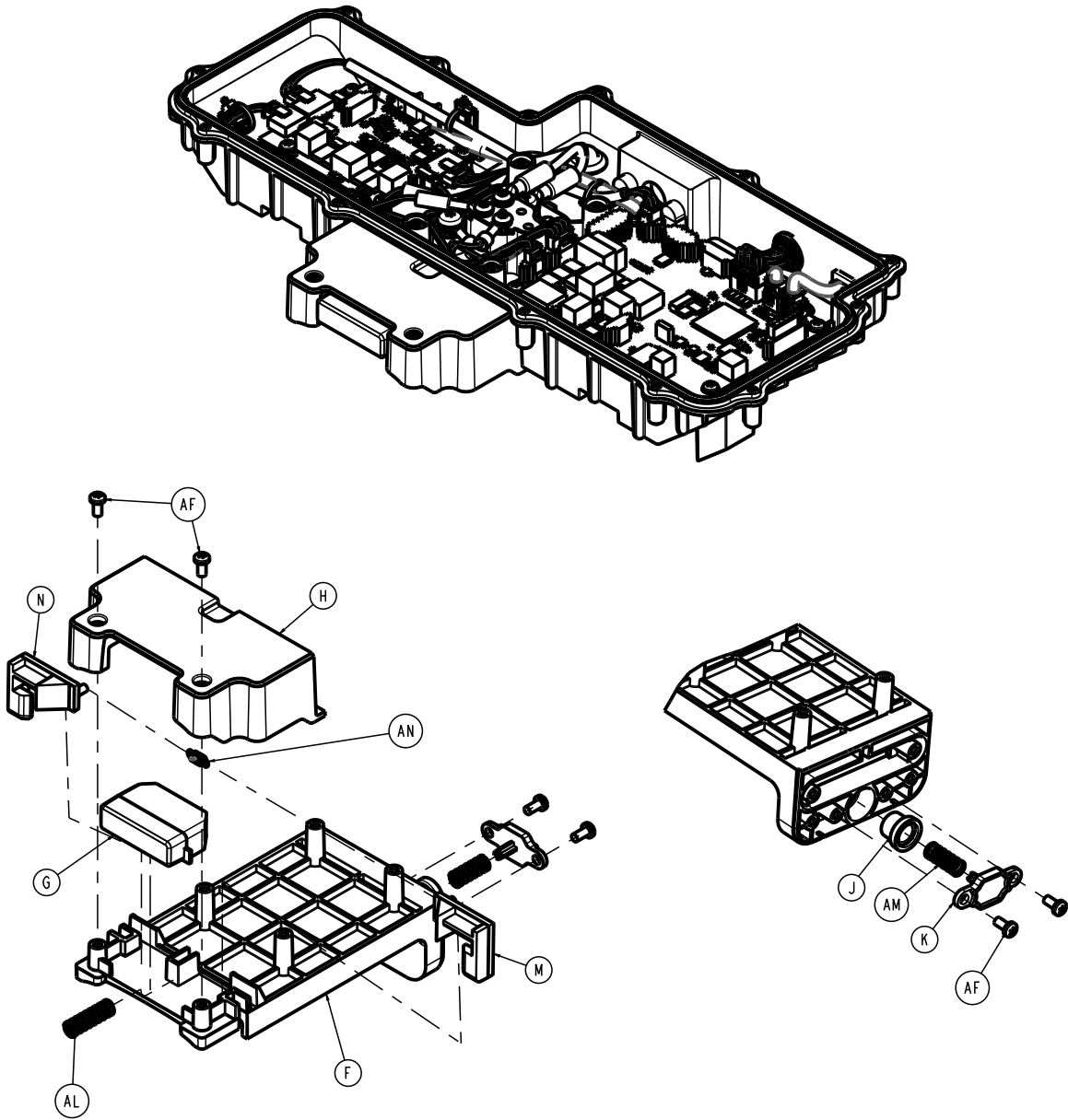


| Item | Number        | Name                              | Quantity |
|------|---------------|-----------------------------------|----------|
| A    | 7000001682962 | Socket head shoulder screw        | 2        |
| B    | 0028-217-000  | Push nut                          | 2        |
| C    | 0038-111-000  | Cable tie                         | 2        |
| D    | 6500-002-135  | Cot foot end fastener coil holder | 1        |
| E    | 6500-002-144  | Cot tie down coil strap           | 1        |

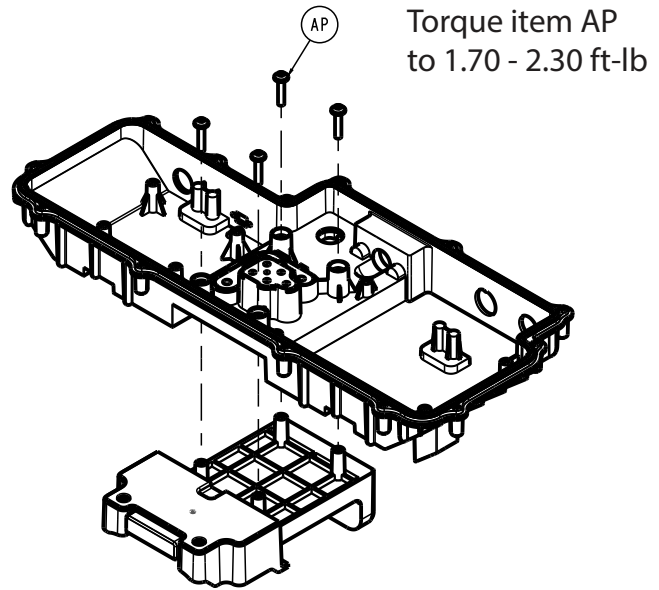
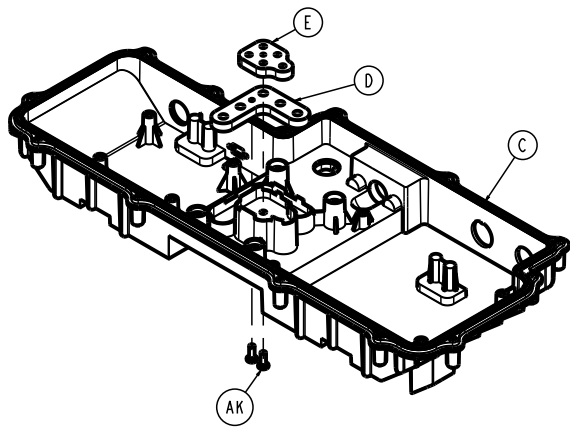
| Item | Number       | Name                             | Quantity |
|------|--------------|----------------------------------|----------|
| F    | 650700020179 | Foot end hitch body              | 1        |
| H    | 650700020183 | Foot end hitch inductive support | 1        |
| J    | 650700020186 | Foot end hitch cover             | 1        |
| K    | 650700080870 | Inductive power cable assembly   | 1        |
| L    | 700000689546 | Button head cap screw            | 2        |
| M    | 700000759852 | Compression wire                 | 4        |
| N    | 700000759904 | Extension wire                   | 2        |
| P    | 650700010969 | Label, hitch, charging           | 1        |
| R    | 650700020213 | Foot end hitch hook, left        | 1        |
| T    | 650700020214 | Foot end hitch hook, right       | 1        |
| U    | 700000737997 | Flange bearing                   | 4        |

# Foot end interface board (FEIB) assembly

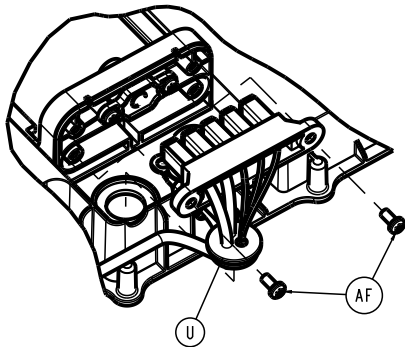
650700080009 Rev AG (Reference only)



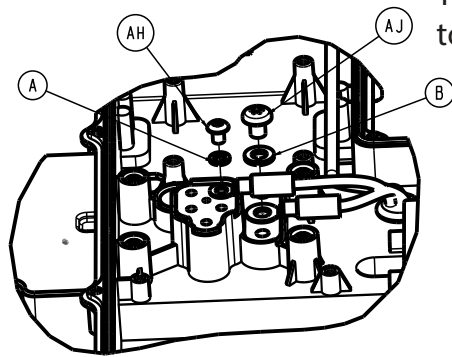




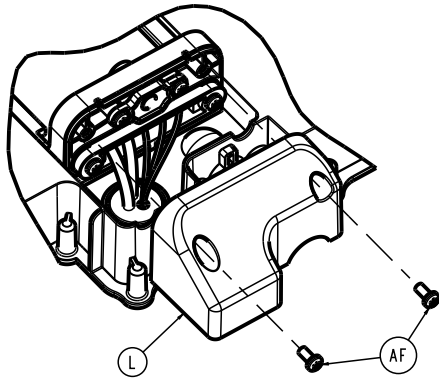
Torque item AP  
to 1.70 - 2.30 ft-lb

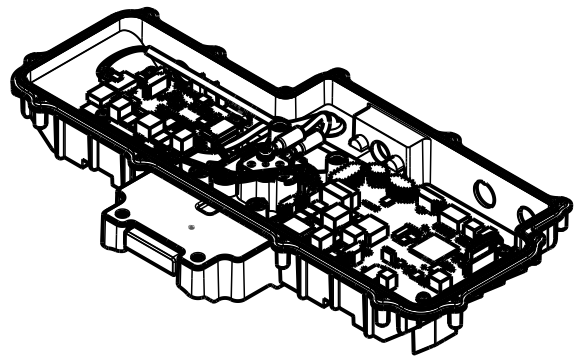
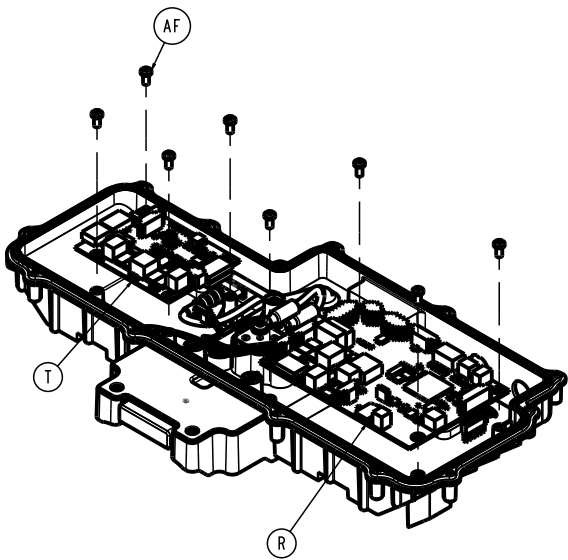
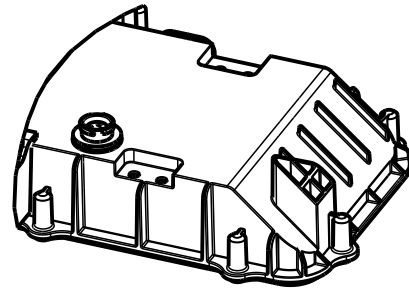
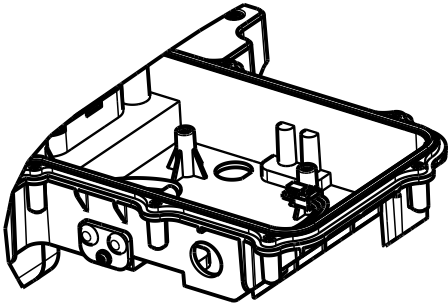
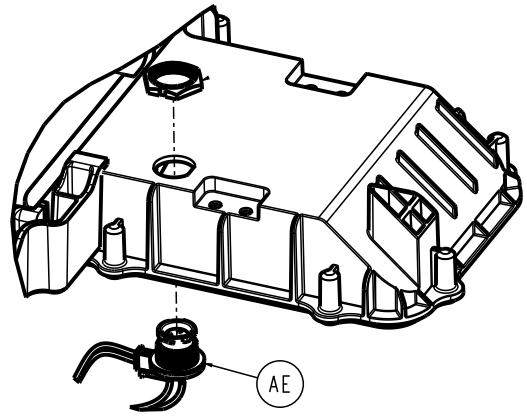
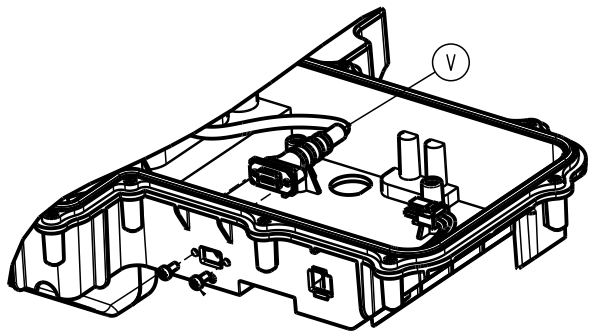


Torque item AH  
to 1.70 - 2.30 ft-lb

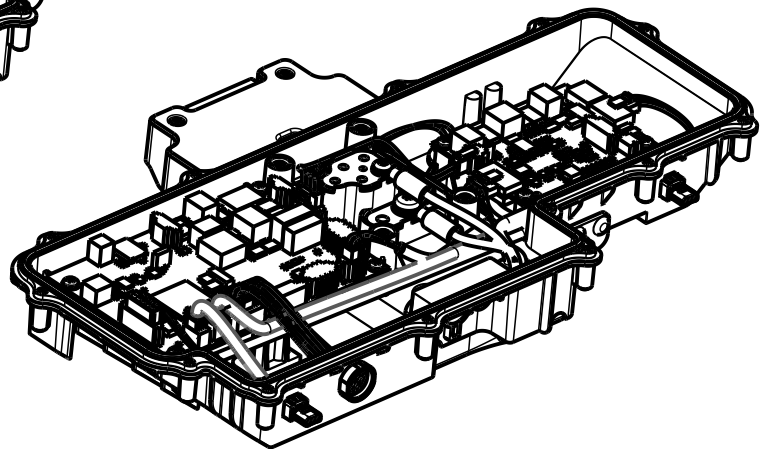
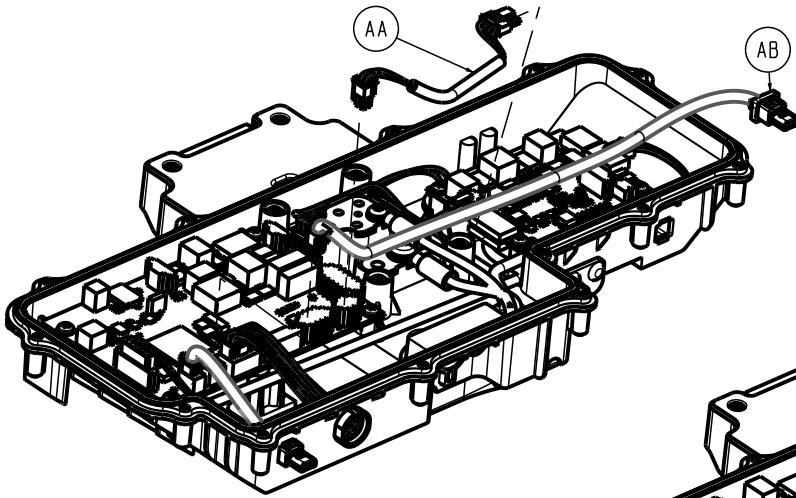
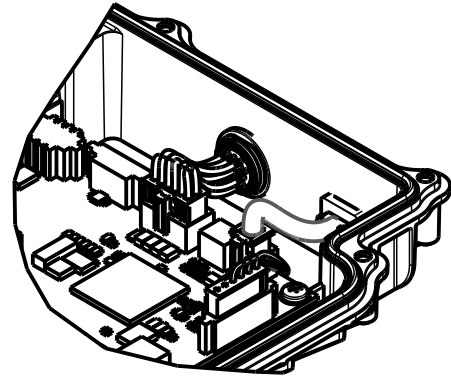
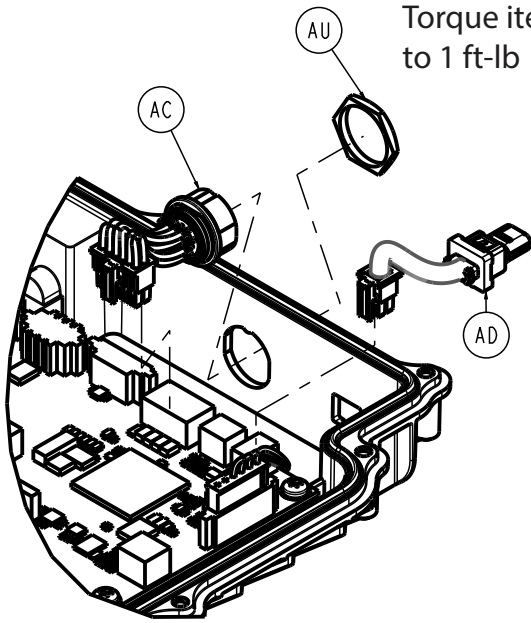


Torque item AJ  
to 1.70 - 2.30 ft-lb



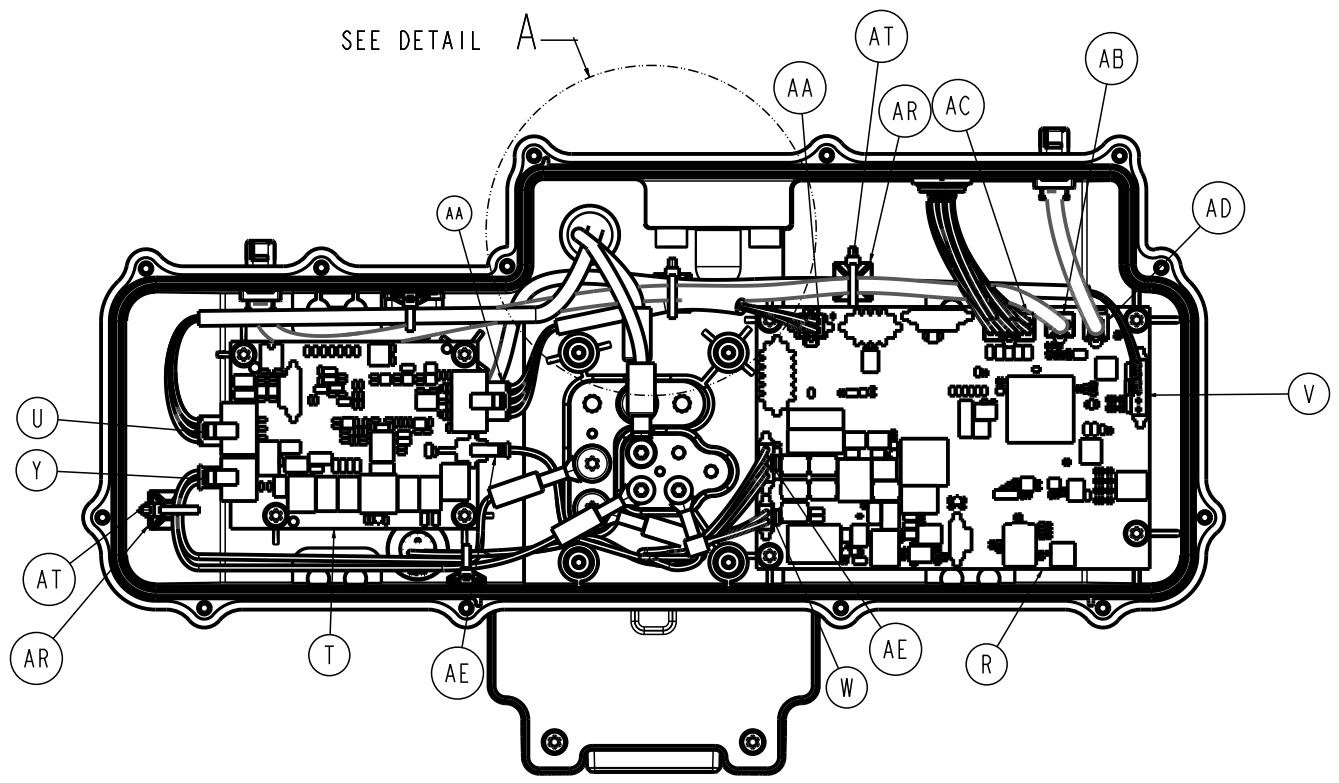
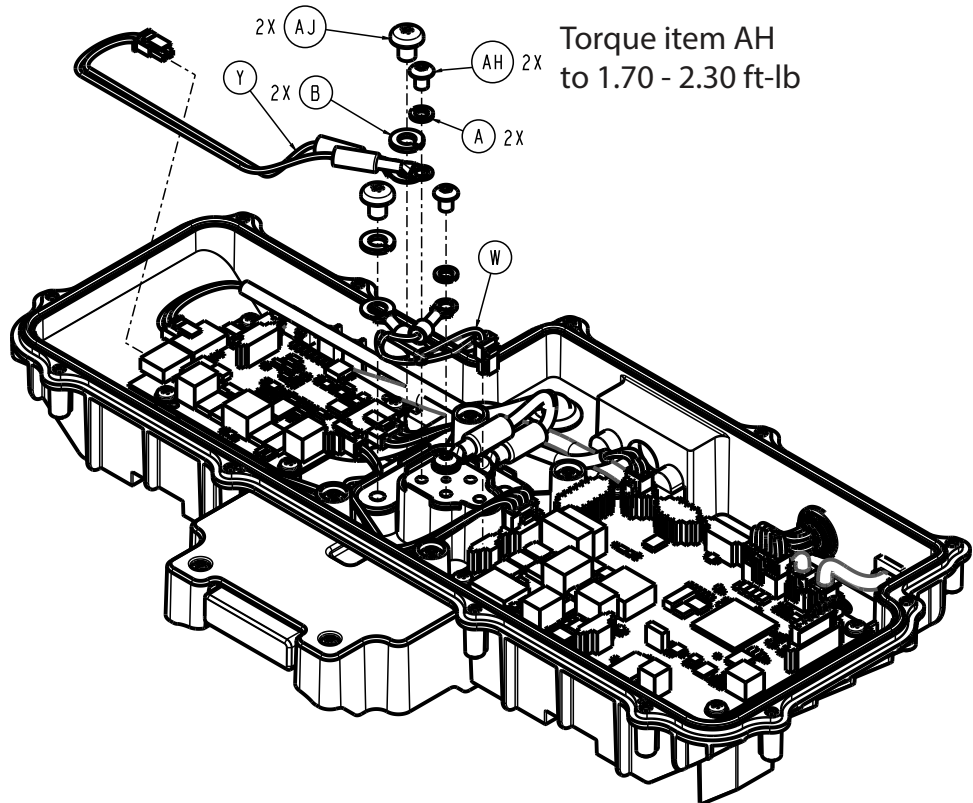


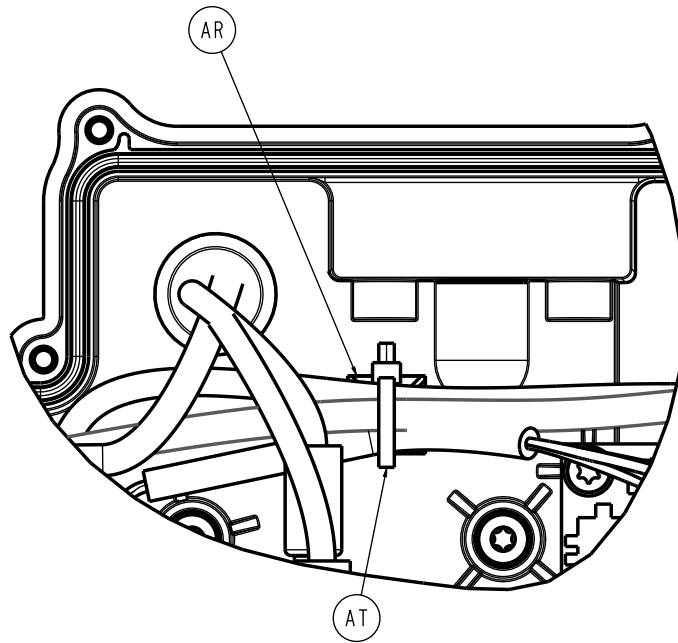
Torque item AU  
to 1 ft-lb



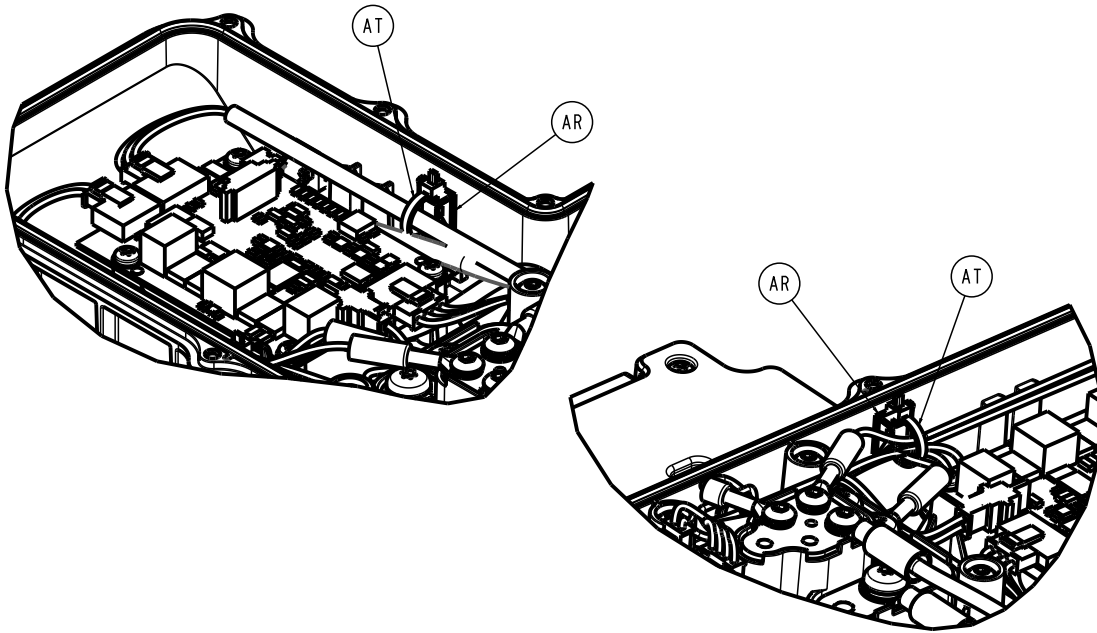
Torque item AJ  
to 1.70 - 2.30 ft-lb

Torque item AH  
to 1.70 - 2.30 ft-lb





DETAIL A

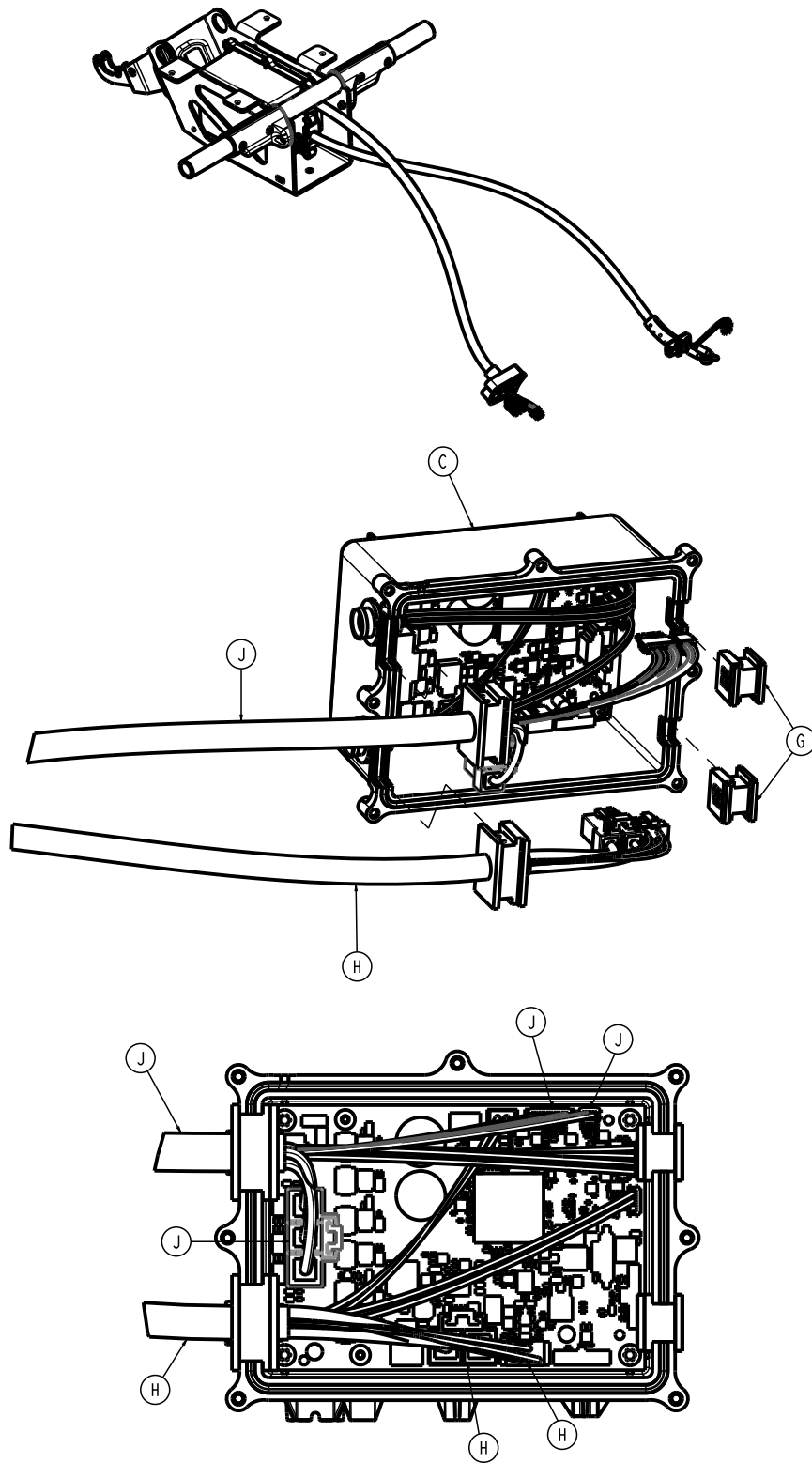


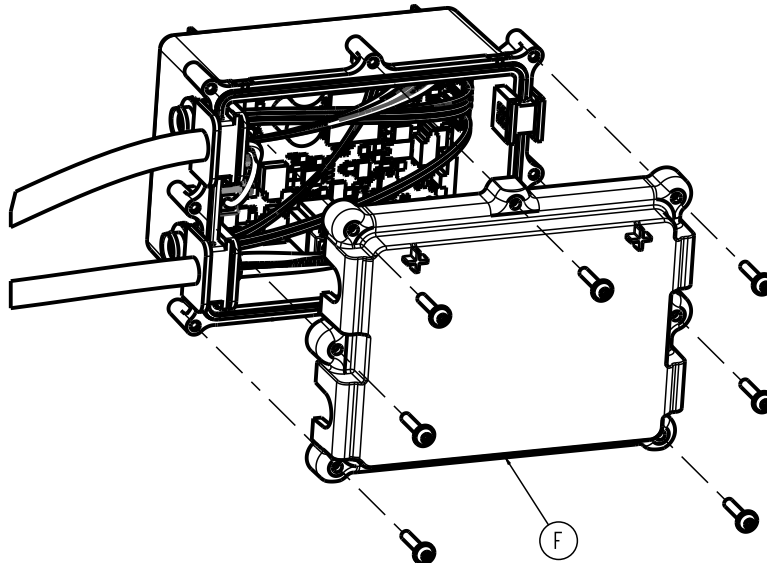
| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 0012-005-000 | Lock washer                       | 3        |
| B    | 0012-012-000 | Lock washer                       | 3        |
| C    | 650700080112 | FEIB enclosure, bottom overmolded | 1        |
| D    | 650700080114 | FEIB terminal block               | 1        |
| E    | 650700080116 | FEIB grounding block              | 1        |
| F    | 650700080117 | Battery mount                     | 1        |
| G    | 650700080118 | Battery release button            | 1        |
| H    | 650700080119 | Battery release button cover      | 1        |
| J    | 650700080121 | Battery pusher                    | 1        |
| K    | 650700080122 | Battery pusher cover              | 1        |
| L    | 650700080123 | Battery mount back cover          | 1        |

| Item | Number       | Name                                       | Quantity |
|------|--------------|--|----------|
| M    | 650700080124 | Battery lock pin, left                     | 1        |
| N    | 650700080126 | Battery lock pin, right                    | 1        |
| R    | 650700080816 | Cot FEIB PCBA with software                | 1        |
| T    | 650700080826 | Battery charger PCBA with software         | 1        |
| U    | 650700080861 | Battery power/comm cable assembly          | 1        |
| V    | 650700080864 | USB cable assembly                         | 1        |
| W    | 650700080865 | FEIB to terminal block cable assembly      | 1        |
| Y    | 650700080866 | Charger to terminal block cable assembly   | 1        |
| AA   | 650700080867 | Charger comm cable assembly                | 1        |
| AB   | 650700080873 | In-ambulance sensor cable assembly         | 1        |
| AC   | 650700080876 | FEIB coil internal cable assembly          | 1        |
| AD   | 650700080877 | FEIB height sensor internal cable assembly | 1        |
| AE   | 650700080880 | Internal inductive power cable assembly    | 1        |
| AF   | 700000687304 | Pan head tapping screw                     | 16       |
| AH   | 700000715613 | Button head cap screw                      | 3        |
| AJ   | 700000719304 | Pan head machine screw                     | 3        |
| AK   | 700000721347 | Pan head machine screw                     | 2        |
| AL   | 700000734208 | Compression wire                           | 1        |
| AM   | 700000734224 | Compression wire                           | 1        |
| AN   | 700000740590 | Extension wire                             | 1        |
| AP   | 700000778629 | Round washer head tapping screw            | 4        |
| AR   | 0058-143-000 | Adhesive backed mounting tab               | 5        |
| AT   | 0038-111-000 | Cable tie                                  | 5        |
| AU   | 700000913037 | Hex nut                                    | 1        |

# Birdcage assembly, no NFMIC, no Wi-Fi

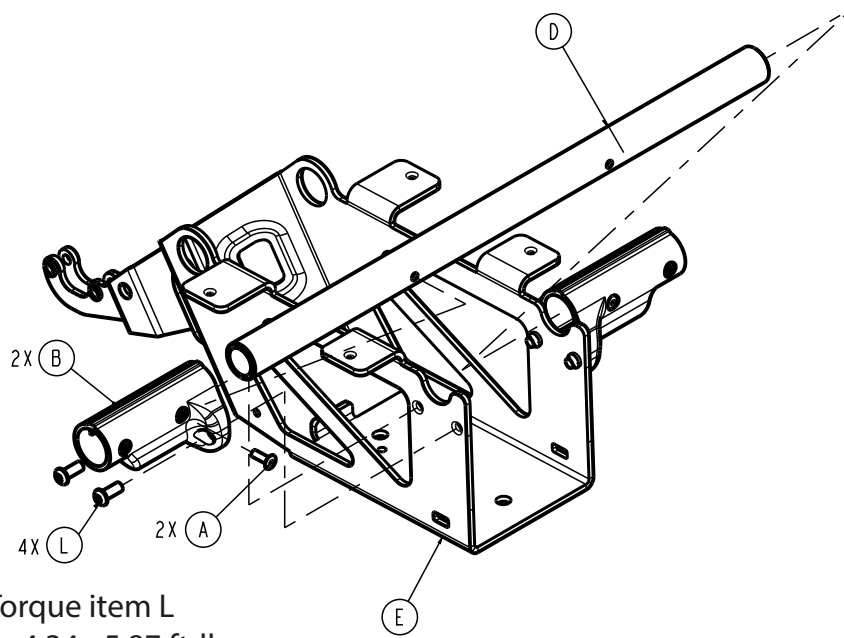
650700080027 Rev AF (Reference only)





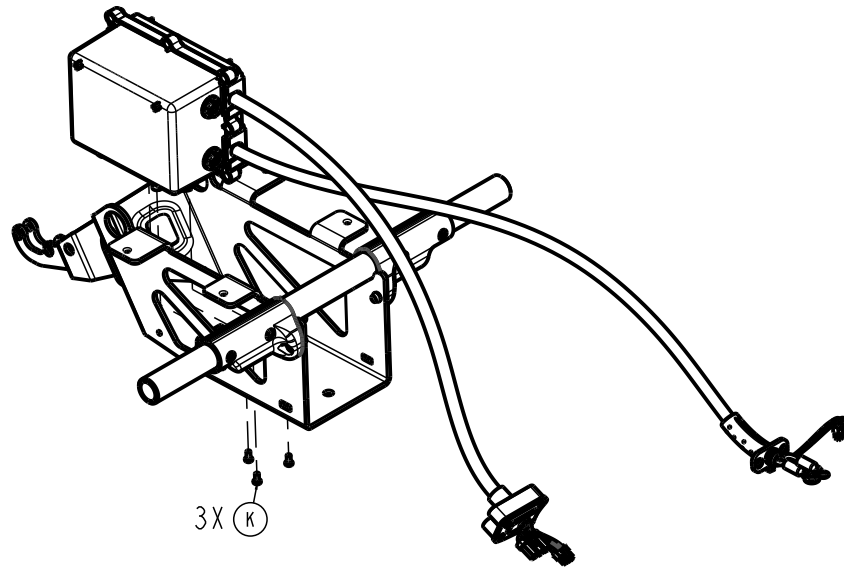
Torque item M  
to 1.49 - 1.83 ft-lb

7X (M)



Torque item L  
to 4.34 - 5.87 ft-lb

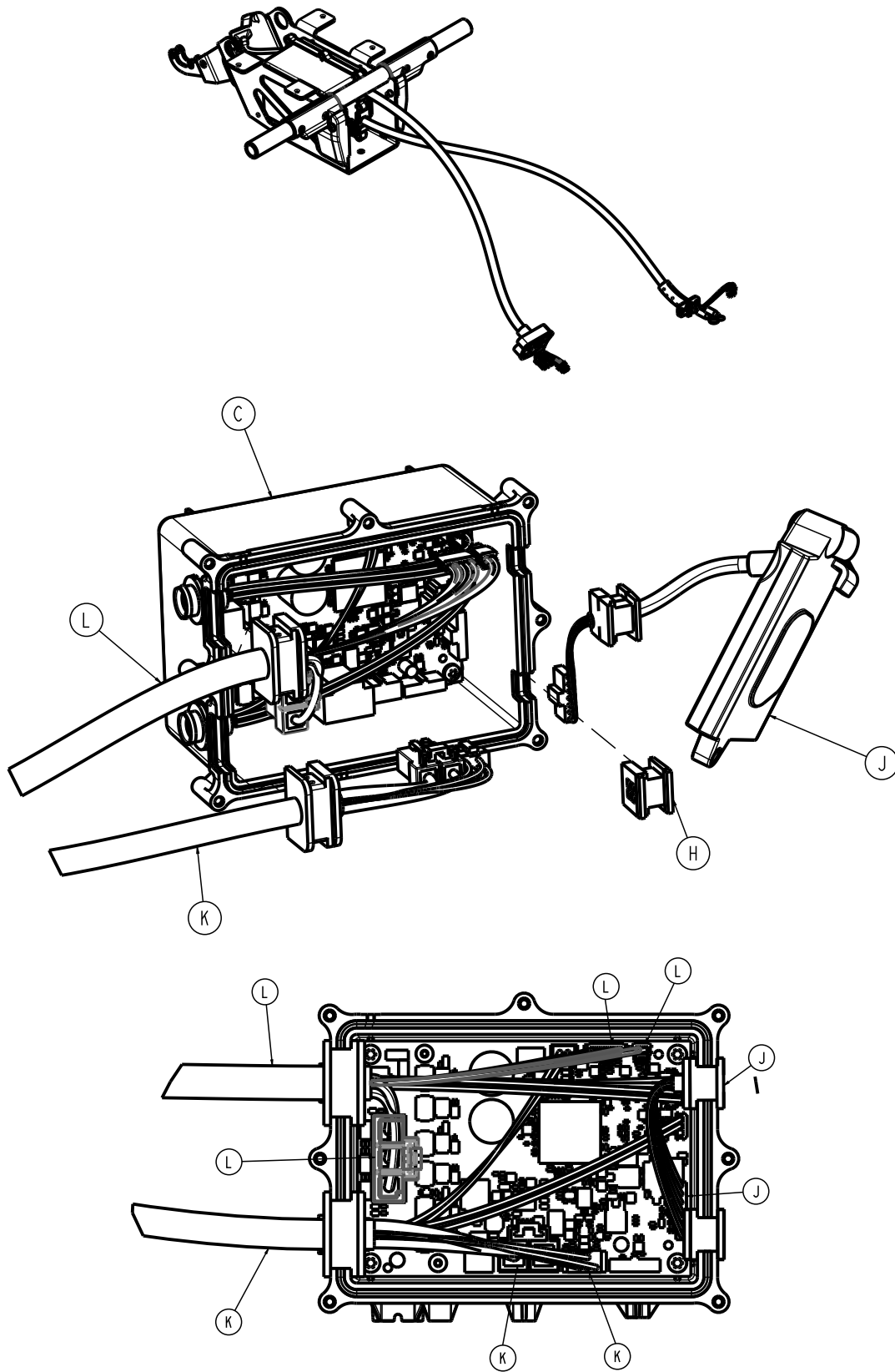


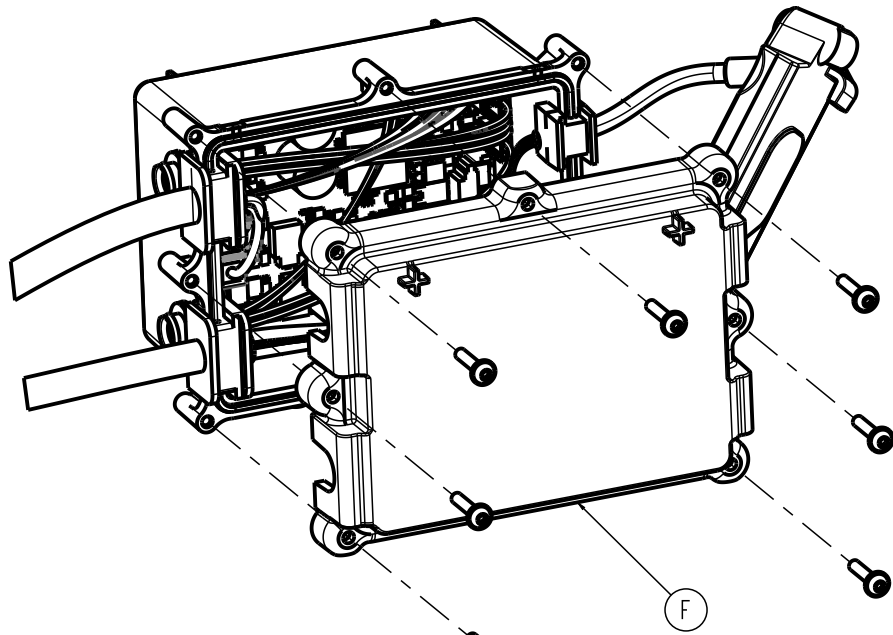


| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 0025-133-000 | Dome head pop rivet               | 2        |
| B    | 6500-001-195 | Motor mount casting               | 2        |
| C    | 650700080032 | HBC enclosure assembly (page 165) | 1        |
| D    | 650700080104 | Gatch cross brace                 | 1        |
| E    | 650700080106 | Birdcage bracket                  | 1        |
| F    | 650700080108 | HBC enclosure, top                | 1        |
| G    | 650700080196 | HBC plug                          | 2        |
| H    | 650700080860 | System bus cable assembly         | 1        |
| J    | 650700080868 | Lift motor cable assembly         | 1        |
| K    | 700000837095 | Pan head tapping screw            | 3        |
| L    | 700000717877 | Button head thread rolling screw  | 4        |
| M    | 700000687745 | Round washer head tapping screw   | 7        |

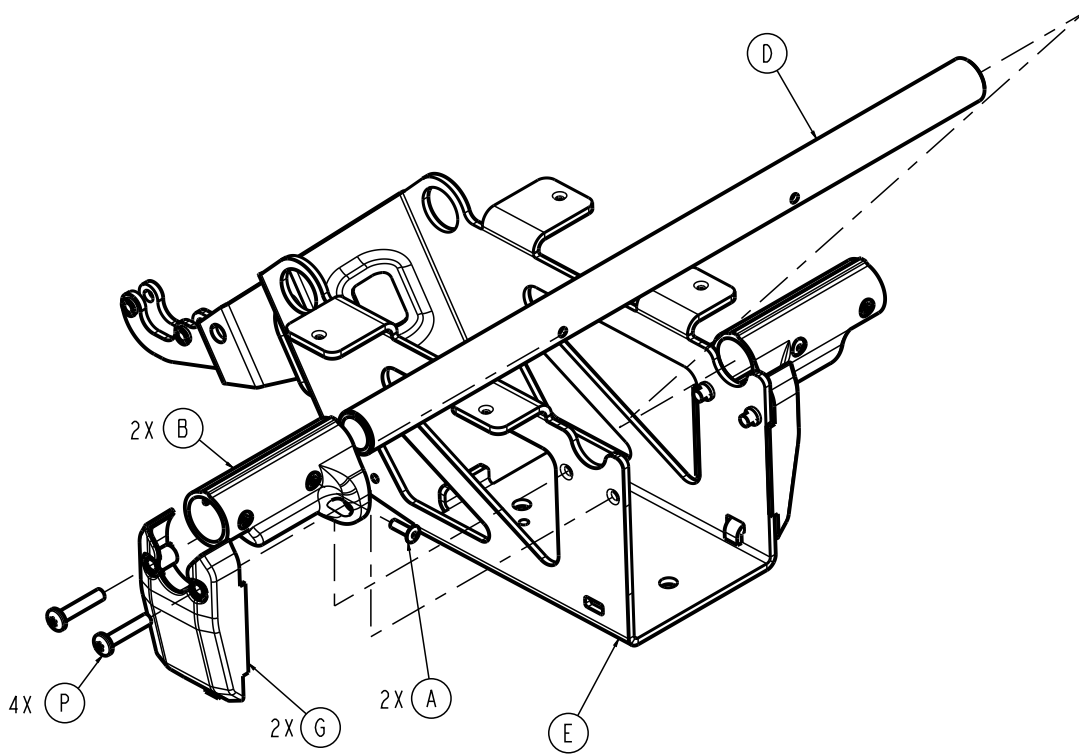
# Birdcage assembly, NFMIC, no Wi-Fi

650700080028 Rev AJ (Reference only)

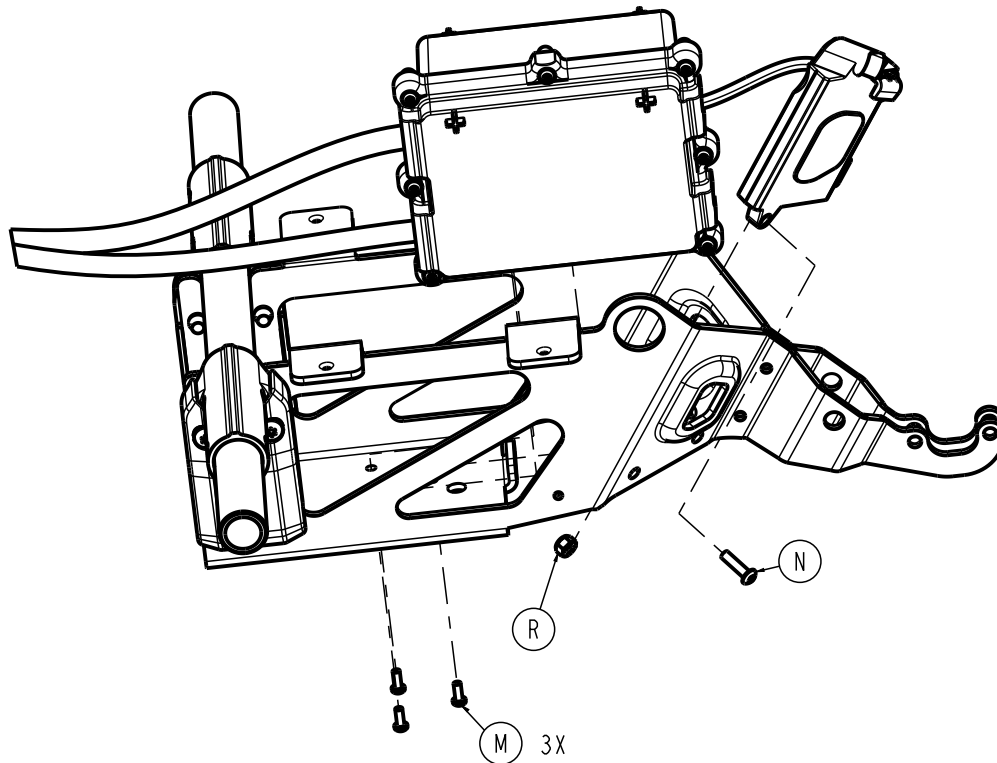




Torque item S  
to 1.49 - 1.83 ft-lb 7X S



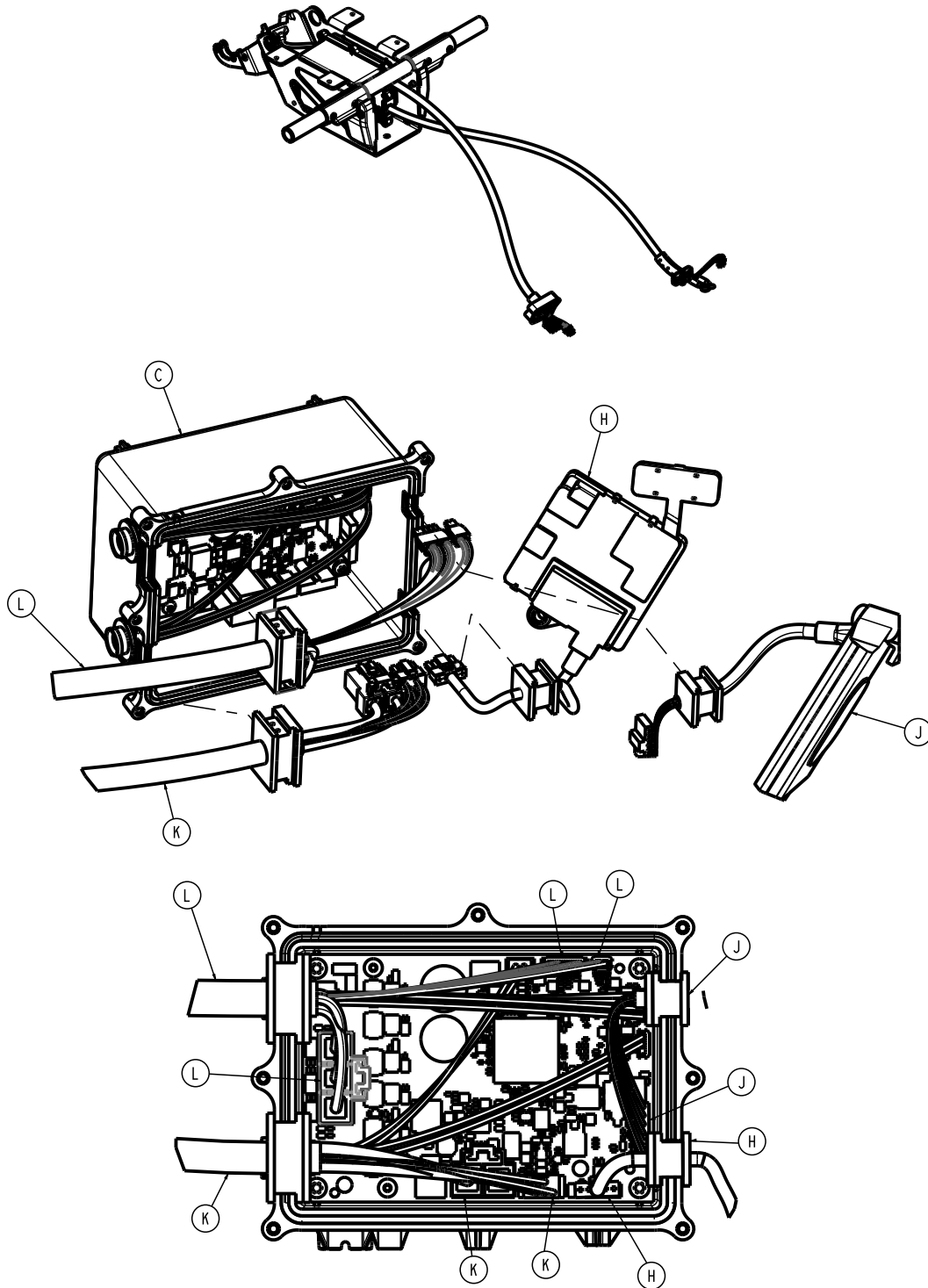
Torque item P  
to 4.34 - 5.87 ft-lb

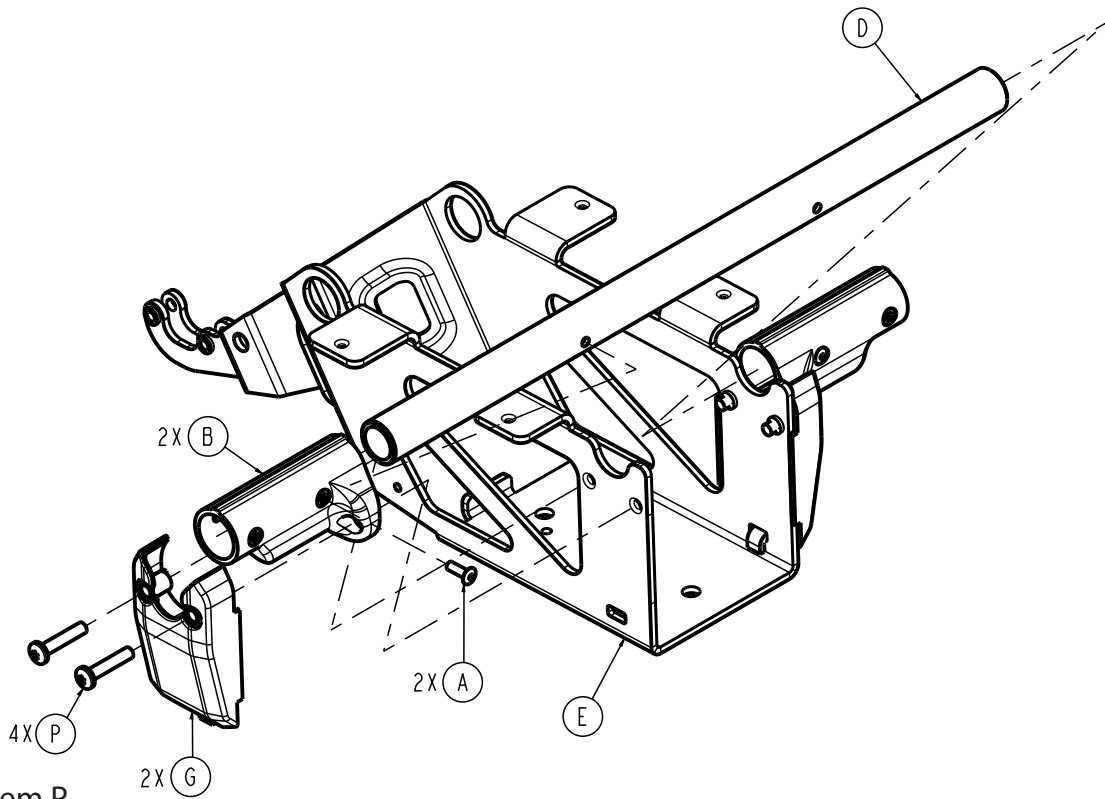
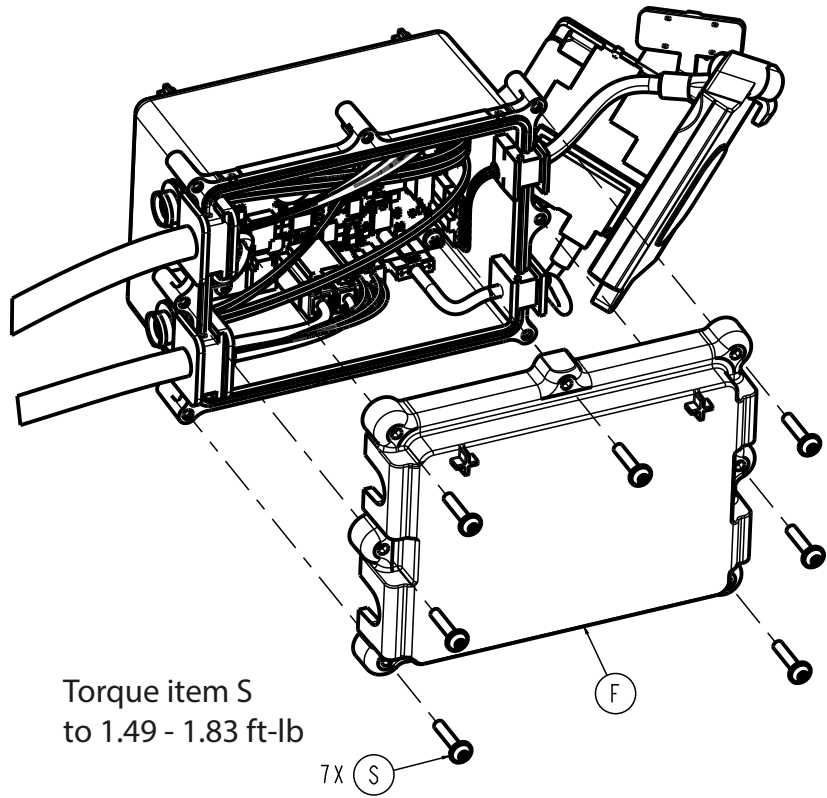


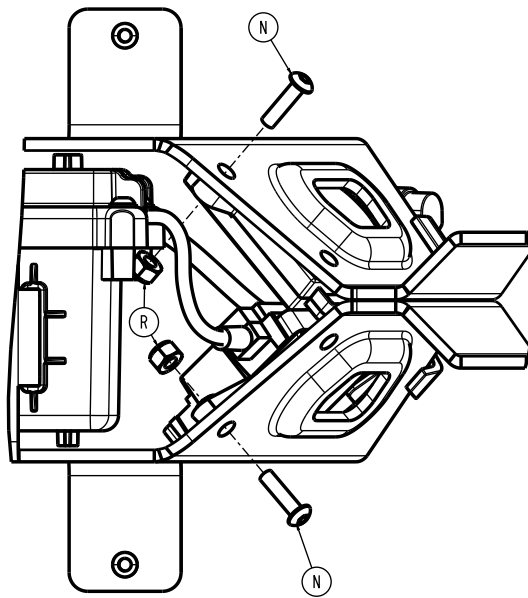
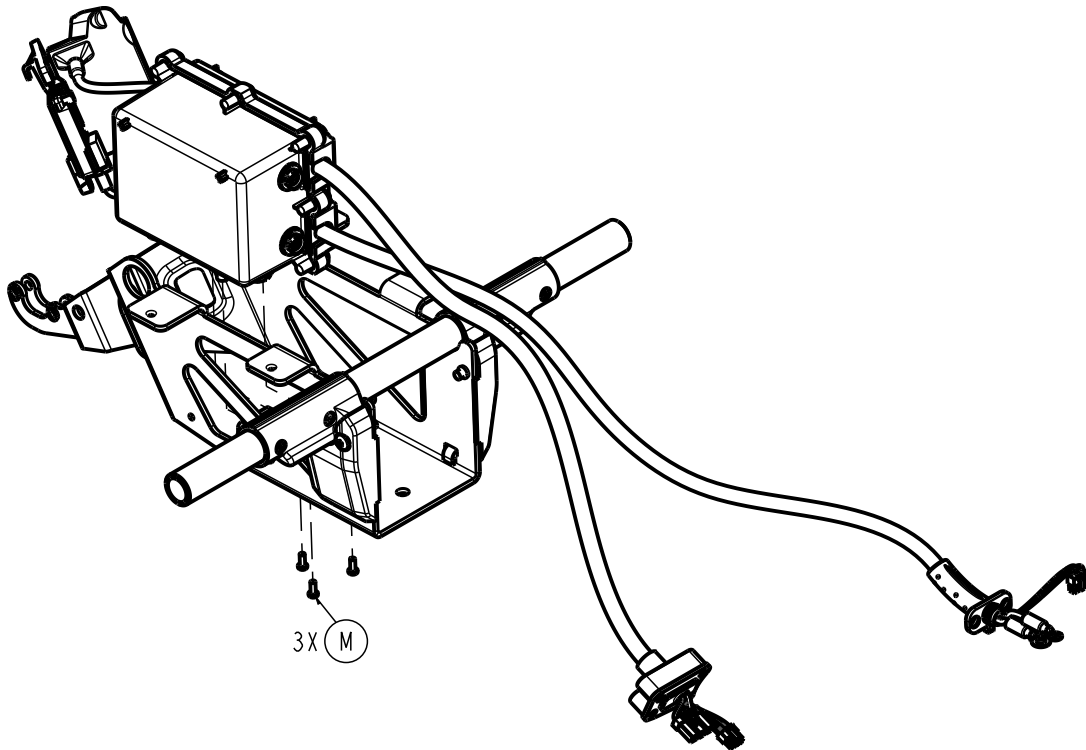
| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 0025-133-000 | Dome head pop rivet               | 2        |
| B    | 6500-001-195 | Motor mount casting               | 2        |
| C    | 650700080032 | HBC enclosure assembly (page 165) | 1        |
| D    | 650700080104 | Gatch cross brace                 | 1        |
| E    | 650700080106 | Birdcage bracket                  | 1        |
| F    | 650700080108 | HBC enclosure, top                | 1        |
| G    | 650700080191 | <b>Power-LOAD</b> guide           | 2        |
| H    | 650700080196 | HBC plug                          | 1        |
| J    | 650700080203 | Cot comm board                    | 1        |
| K    | 650700080860 | System bus cable assembly         | 1        |
| L    | 650700080868 | Lift motor cable assembly         | 1        |
| M    | 700000837095 | Pan head tapping screw            | 3        |
| N    | 700000689468 | Button head cap screw             | 1        |
| P    | 700000717908 | Pan head thread rolling screw     | 4        |
| R    | 0016-002-000 | Fiberlock nut                     | 1        |
| S    | 700000687745 | Round washer head tapping screw   | 7        |

# Birdcage assembly, NFMIC, Wi-Fi

650700080029 Rev AK (Reference only)







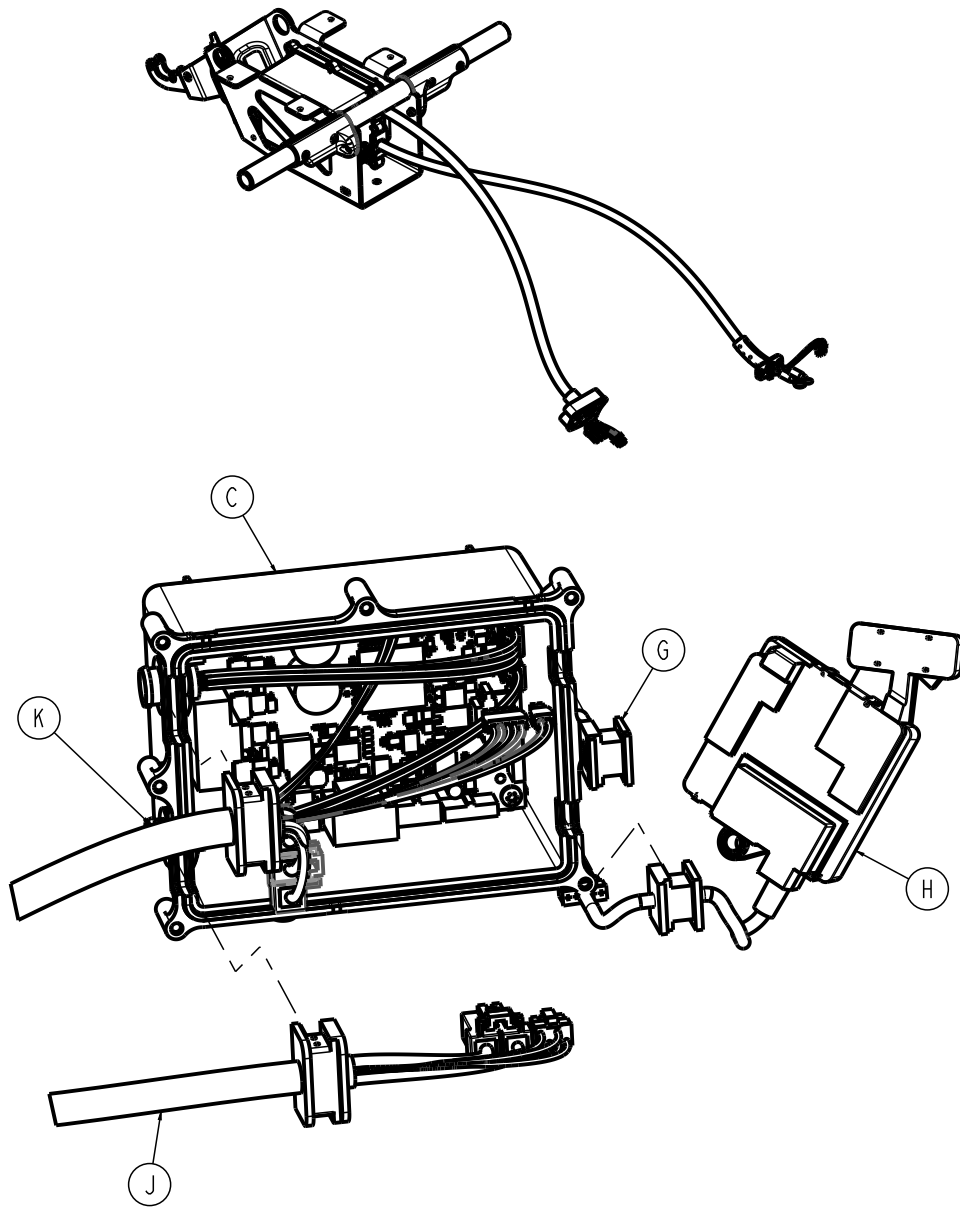
| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 0025-133-000 | Dome head pop rivet               | 2        |
| B    | 6500-001-195 | Motor mount casting               | 2        |
| C    | 650700080032 | HBC enclosure assembly (page 165) | 1        |
| D    | 650700080104 | Gatch cross brace                 | 1        |
| E    | 650700080106 | Birdcage bracket                  | 1        |
| F    | 650700080108 | HBC enclosure, top                | 1        |
| G    | 650700080191 | <b>Power-LOAD</b> guide           | 2        |
| H    | 650700080202 | Wi-Fi module, cot                 | 1        |
| J    | 650700080203 | Cot comm board                    | 1        |
| K    | 650700080860 | System bus cable assembly         | 1        |

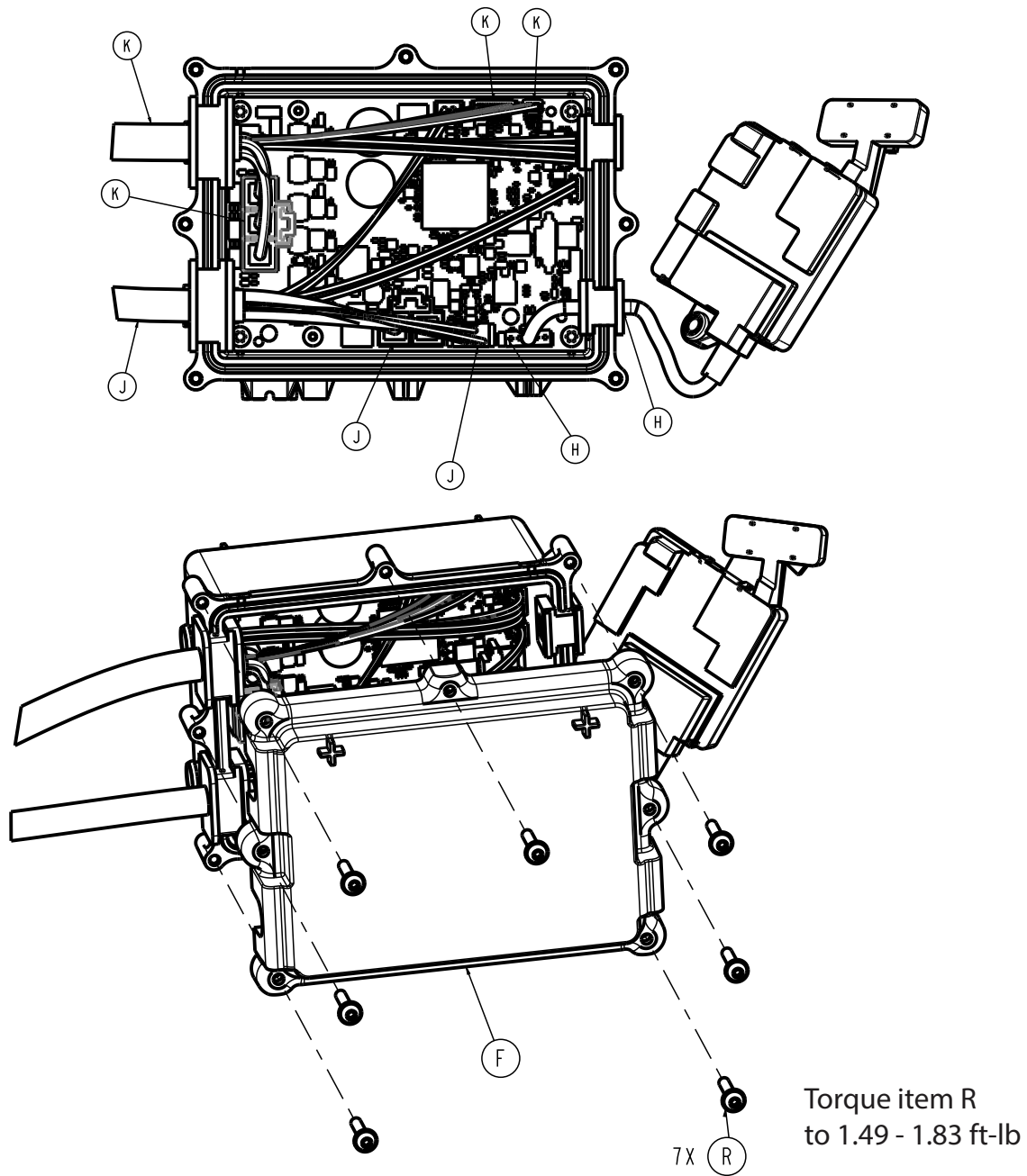
| <b>Item</b> | <b>Number</b> | <b>Name</b>                     | <b>Quantity</b> |
|-------------|---------------|---------------------------------|-----------------|
| L           | 650700080868  | Lift motor cable assembly       | 1               |
| M           | 700000837095  | Pan head tapping screw          | 3               |
| N           | 700000689468  | Button head cap screw           | 2               |
| P           | 700000717908  | Pan head thread rolling screw   | 4               |
| R           | 0016-002-000  | Fiberlock nut                   | 2               |
| S           | 700000687745  | Round washer head tapping screw | 7               |

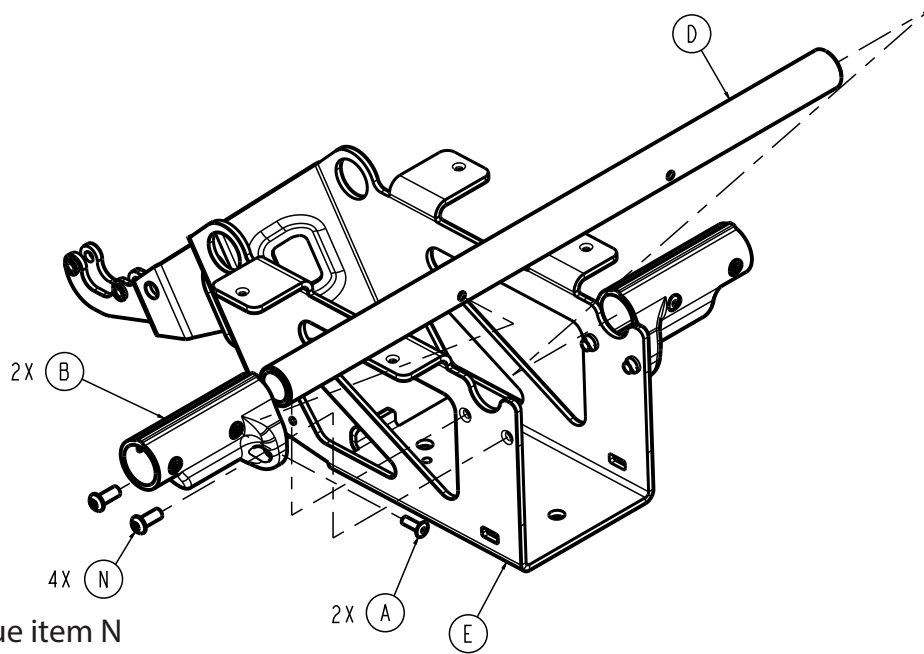


# Birdcage assembly, no NFMIC, Wi-Fi

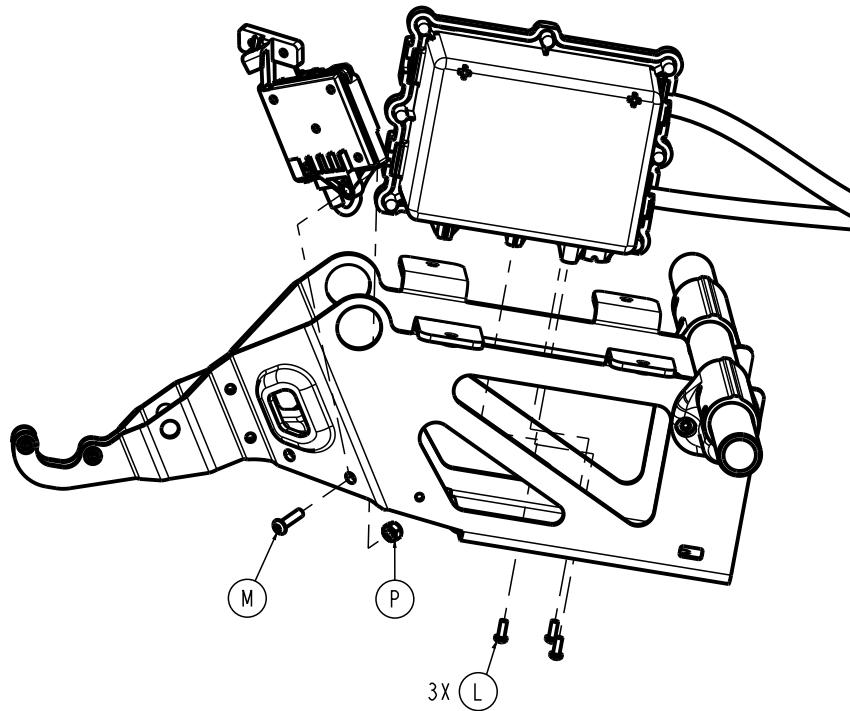
650700080031 Rev AK (Reference only)







Torque item N  
to 4.34 - 5.87 ft-lb

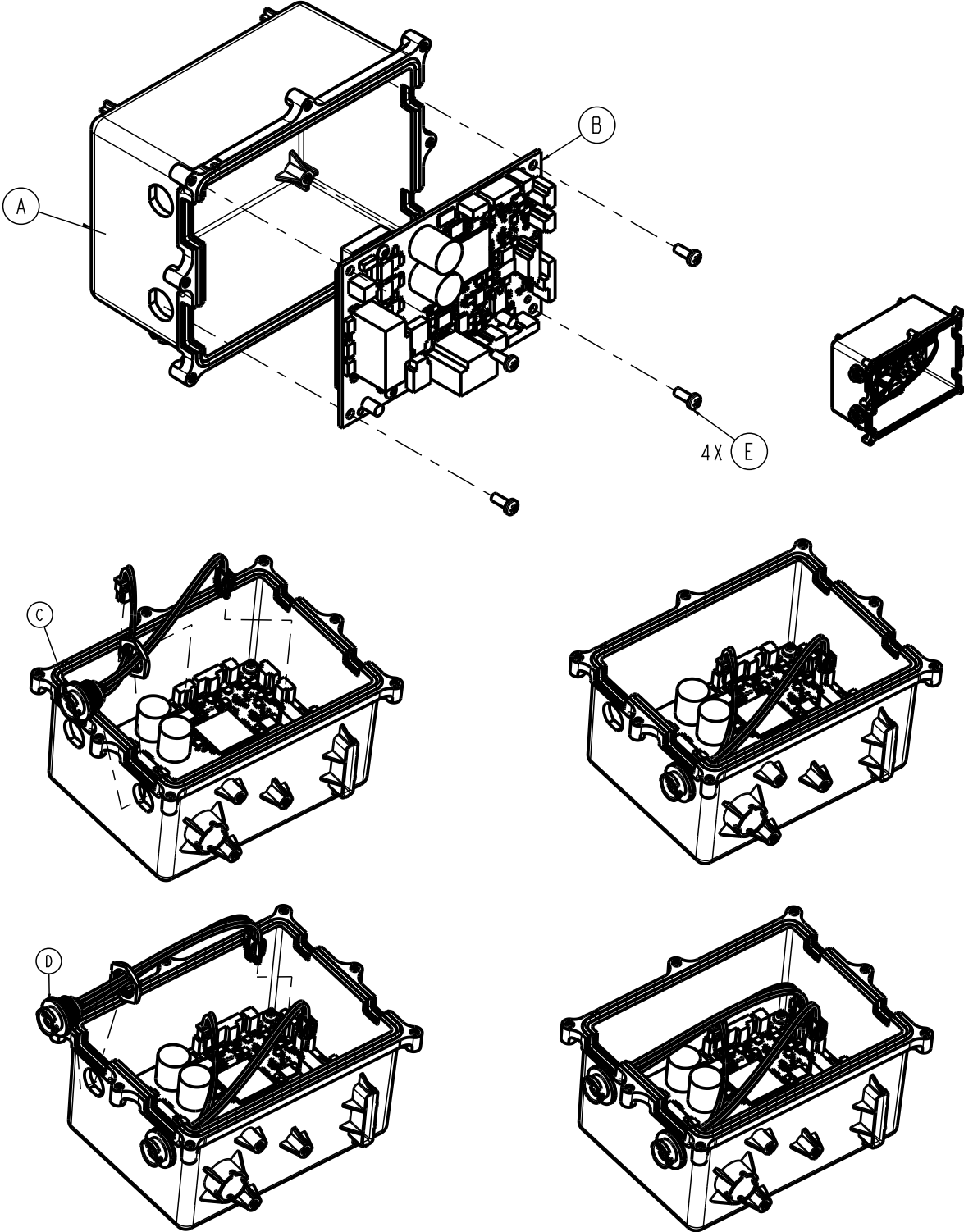


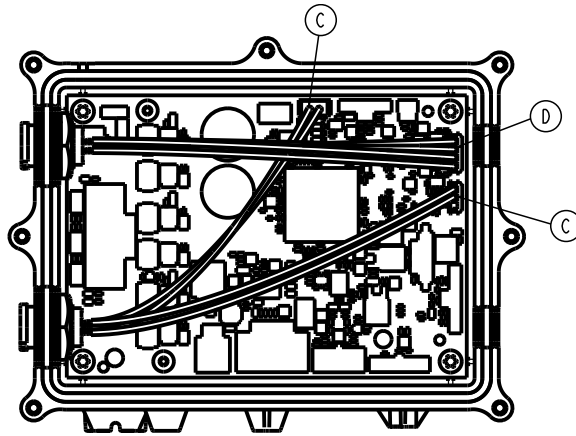
| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 0025-133-000 | Dome head pop rivet               | 2        |
| B    | 6500-001-195 | Motor mount casting               | 2        |
| C    | 650700080032 | HBC enclosure assembly (page 165) | 1        |
| D    | 650700080104 | Gatch cross brace                 | 1        |
| E    | 650700080106 | Birdcage bracket                  | 1        |
| F    | 650700080108 | HBC enclosure, top                | 1        |
| G    | 650700080196 | HBC plug                          | 1        |
| H    | 650700080202 | Wi-Fi module, cot                 | 1        |
| J    | 650700080860 | System bus cable assembly         | 1        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>                      | <b>Quantity</b> |
|-------------|---------------|----------------------------------|-----------------|
| K           | 650700080868  | Lift motor cable assembly        | 1               |
| L           | 700000837095  | Pan head tapping screw           | 3               |
| M           | 700000689468  | Button head cap screw            | 1               |
| N           | 700000717877  | Button head thread rolling screw | 4               |
| P           | 0016-002-000  | Fiberlock nut                    | 1               |
| R           | 700000687745  | Round washer head tapping screw  | 7               |

# HBC enclosure assembly

650700080032 Rev AC (Reference only)



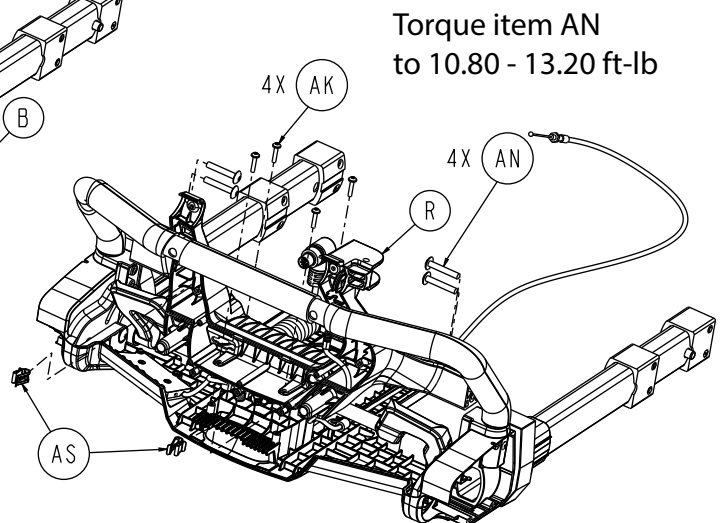
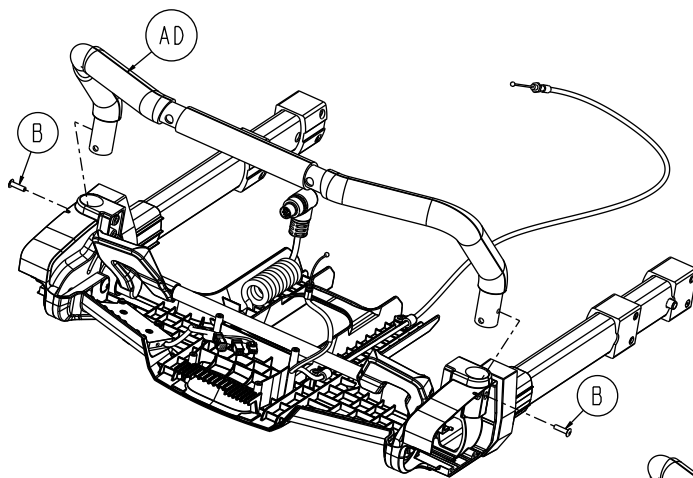
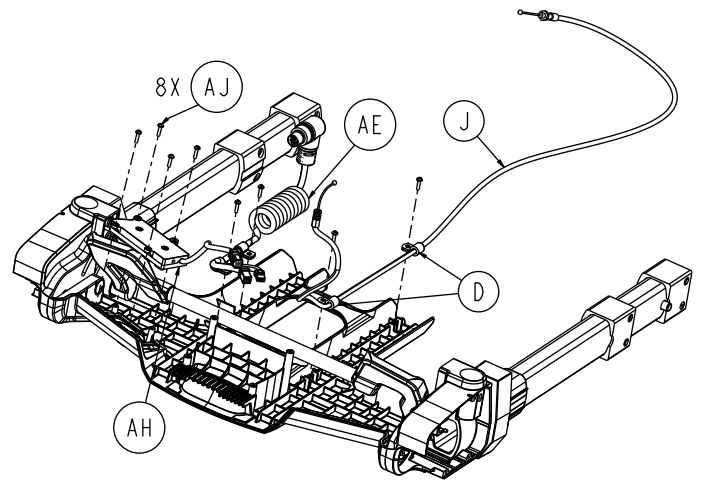
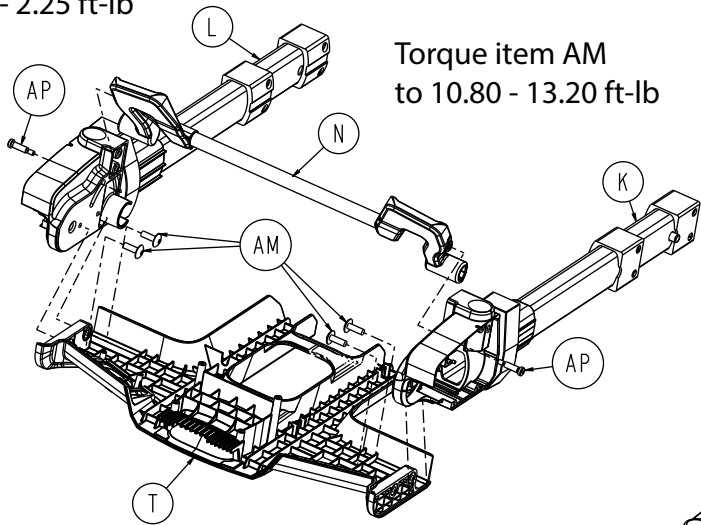


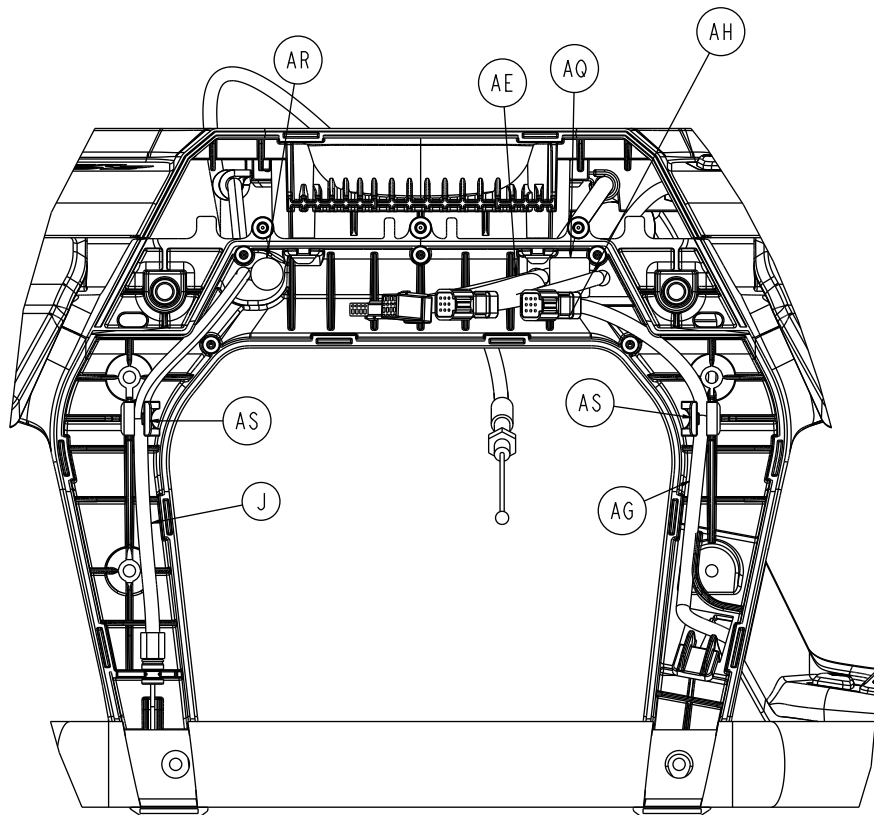
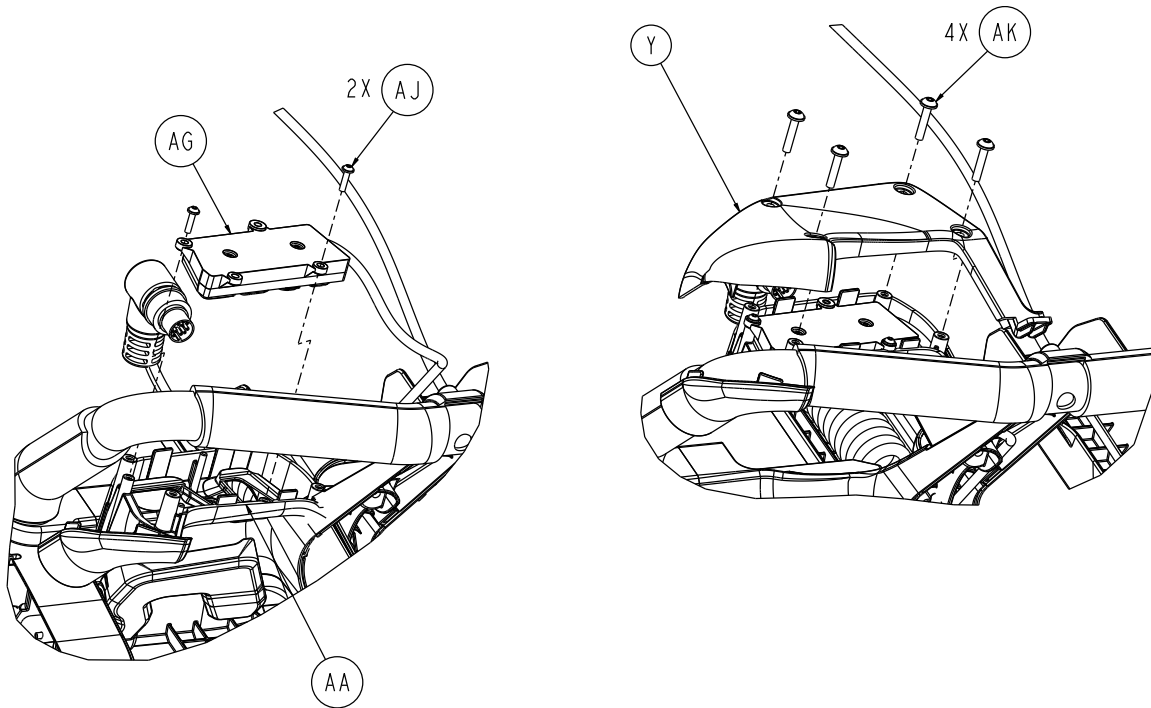
| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| A    | 650700080107 | HBC enclosure, bottom overmolded            | 1        |
| B    | 650700080806 | Base controller PCBA assembly with software | 1        |
| C    | 650700080878 | Solenoid/transducer internal cable assembly | 1        |
| D    | 650700080879 | HBC strain gauge internal cable assembly    | 1        |
| E    | 700000837095 | Pan head tapping screw                      | 4        |

# Foot section assembly

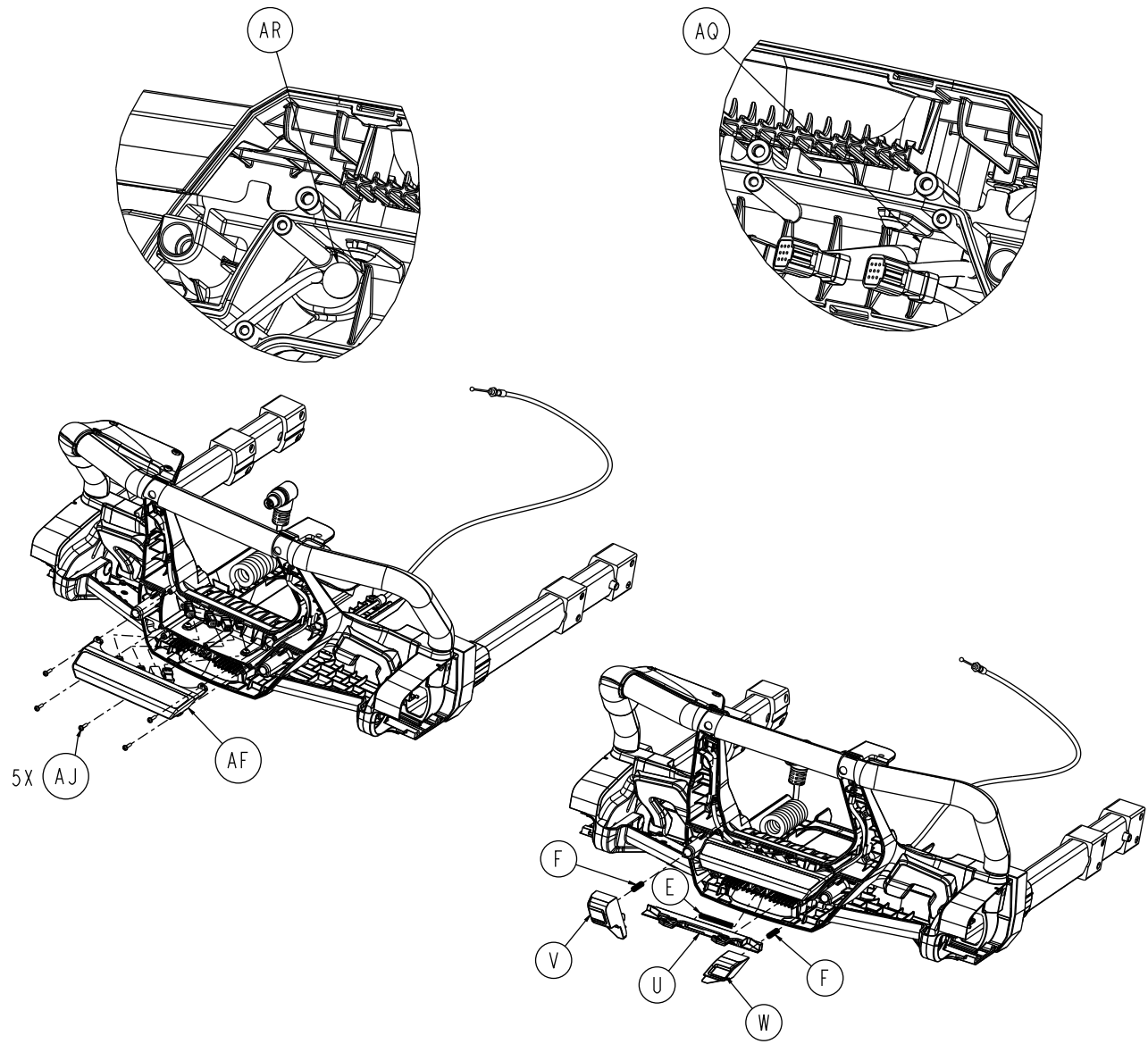
650700080008 Rev AH (Reference only)

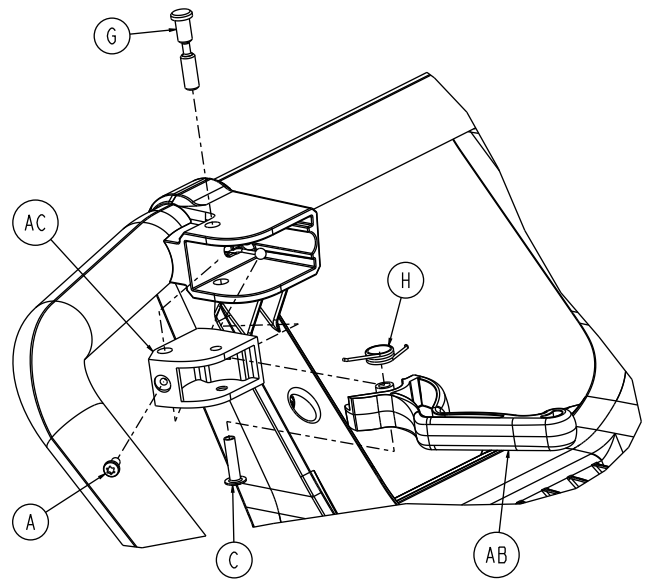
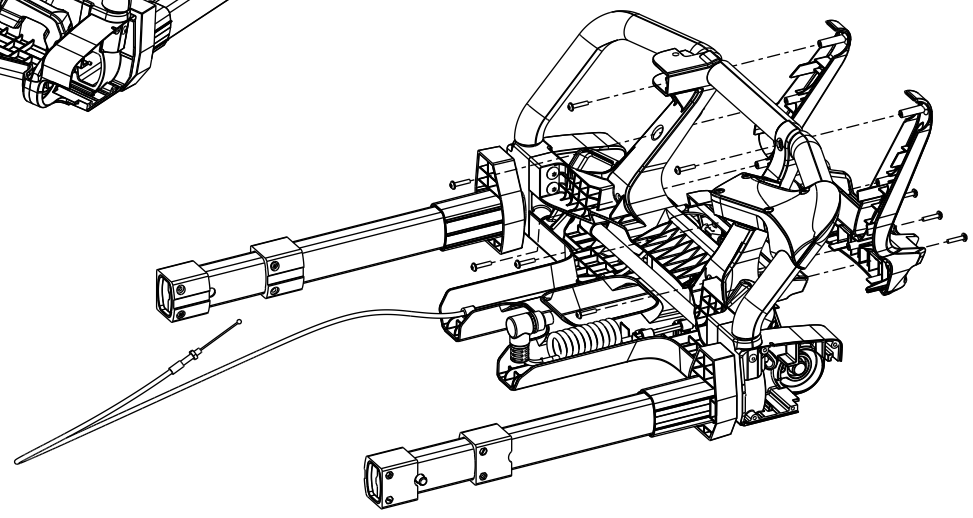
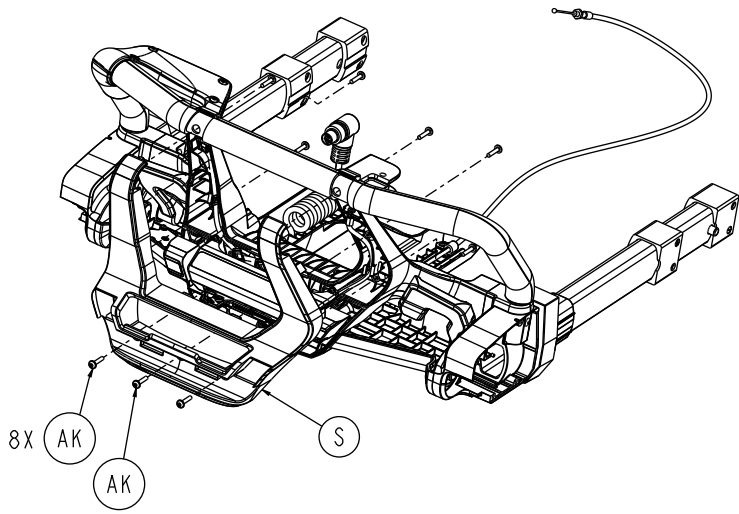
Torque item AP  
to 1.67 - 2.25 ft-lb

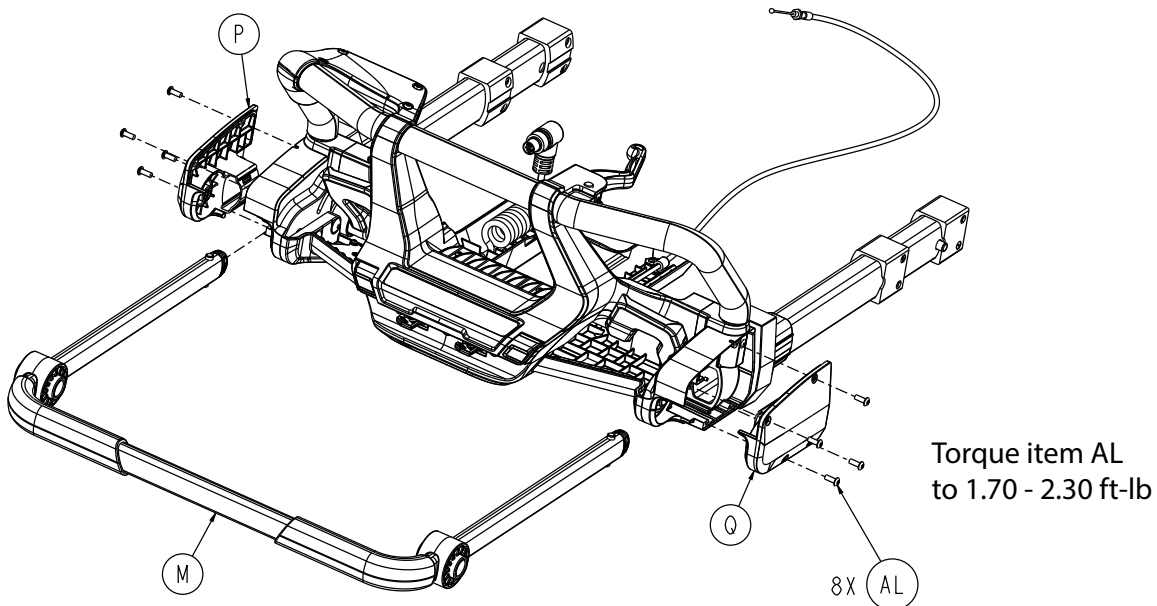










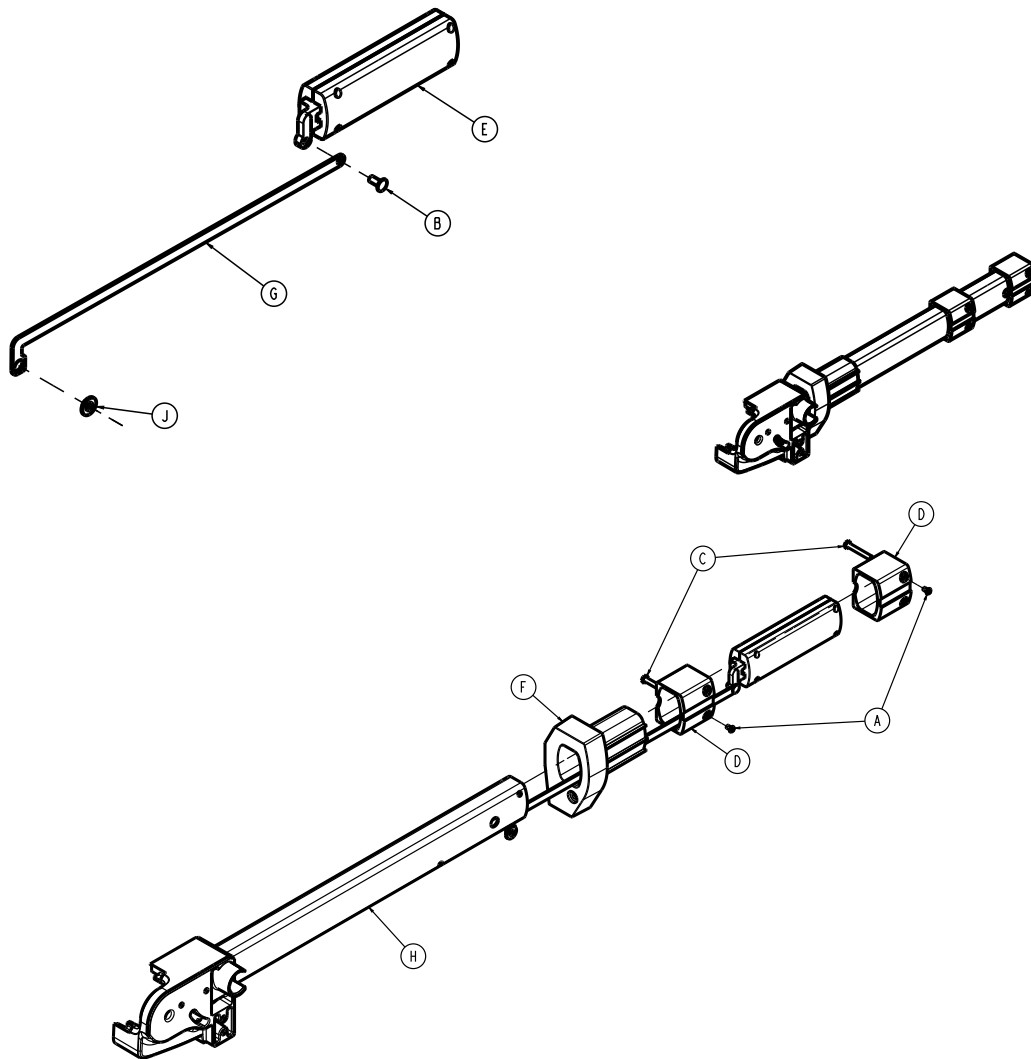


| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 0023-163-000 | Pan head tapping screw                             | 1        |
| B    | 0025-086-000 | Dome head, open pop rivet                          | 2        |
| C    | 0025-113-000 | Truss head semi-tubular rivet                      | 1        |
| D    | 0034-381-000 | Cable clamp  | 2        |
| E    | 0038-134-000 | Compression wire                                   | 1        |
| F    | 0038-570-000 | Compression wire                                   | 2        |
| G    | 6500-001-146 | Manual release pivot pin                           | 1        |
| H    | 6500-001-147 | Manual release torsion spring                      | 1        |
| J    | 650700020128 | Manual release cable                               | 1        |
| K    | 650700080014 | Housing assembly, foot end, right (page 173)       | 1        |
| L    | 650700080016 | Housing assembly, foot end, left (page 175)        | 1        |
| M    | 650700080017 | Wagon handle assembly (page 177)                   | 1        |
| N    | 650700080135 | Activation bonding, foot end                       | 1        |
| P    | 650700080156 | Foot end housing body cover, left                  | 1        |
| Q    | 650700080157 | Foot end housing body cover, right                 | 1        |
| R    | 650700080158 | Foot end enclosure, back                           | 1        |
| S    | 650700080159 | Foot end enclosure, front                          | 1        |
| T    | 650700080161 | Foot end enclosure, top                            | 1        |
| U    | 650700080221 | Wagon handle release latch                         | 1        |
| V    | 650700080164 | Wagon handle release button, left                  | 1        |
| W    | 650700080166 | Wagon handle release button, right                 | 1        |
| Y    | 650700080167 | UI cover, back                                     | 1        |
| AA   | 650700080168 | UI cover, front                                    | 1        |
| AB   | 650700080193 | Quick release handle                               | 1        |
| AC   | 650700080194 | Quick release handle housing                       | 1        |
| AD   | 650700080206 | Foot end lift bar overmold                         | 1        |
| AE   | 650700080862 | FEIB to status external module coil cable assembly | 1        |
| AF   | 650700080890 | Light module cable assembly                        | 1        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>                     | <b>Quantity</b> |
|-------------|---------------|---------------------------------|-----------------|
| AG          | 650700080891  | UI bottom cable assembly        | 1               |
| AH          | 650700080892  | UI top cable assembly           | 1               |
| AJ          | 700000687744  | Round washer head tapping screw | 15              |
| AK          | 700000687745  | Round washer head tapping screw | 17              |
| AL          | 700000689483  | Button head cap screw           | 8               |
| AM          | 700000711191  | Truss head machine screw        | 4               |
| AN          | 700000711194  | Truss head machine screw        | 4               |
| AP          | 700002801177  | Socket head shoulder bolt       | 2               |
| AQ          | 700000765285  | Rectangular hole plug           | 1               |
| AR          | 700000765287  | Round hole plug                 | 1               |
| AS          | 700000765290  | Heyco wire clip                 | 2               |

# Housing assembly, foot end, right

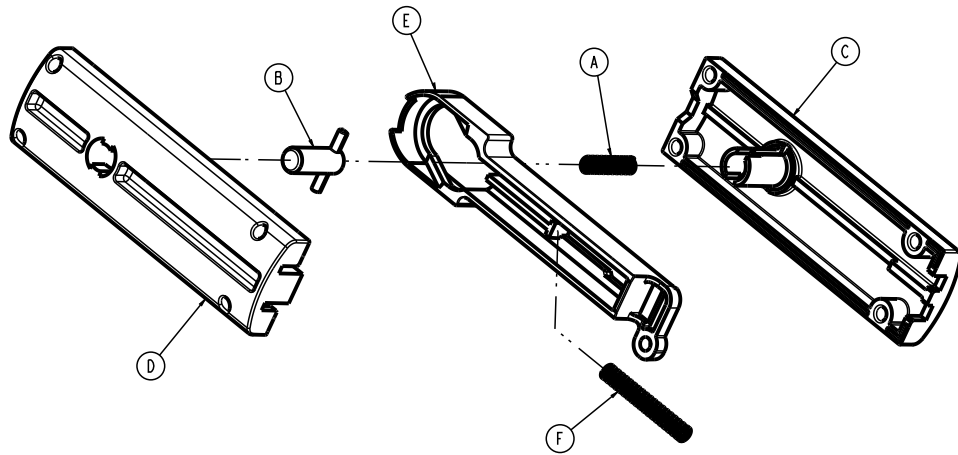
650700080014 Rev AC (Reference only)



| Item | Number       | Name                                       | Quantity |
|------|--------------|--|----------|
| A    | 0004-883-000 | Button head cap screw                      | 2        |
| B    | 0025-126-000 | Semi-tubular rivet                         | 1        |
| C    | 6085-001-169 | Head section nut                           | 2        |
| D    | 6085-001-170 | Internal bearing                           | 2        |
| E    | 650700080022 | Latch assembly, foot end, right (page 174) | 1        |
| F    | 650700080133 | Outer rail end cap, foot end, right        | 1        |
| G    | 650700080142 | Extension release latch link               | 1        |
| H    | 650700080145 | Foot end housing bonding, right            | 1        |
| J    | 700001235118 | Flange bearing                             | 1        |

# Latch assembly, foot end, right

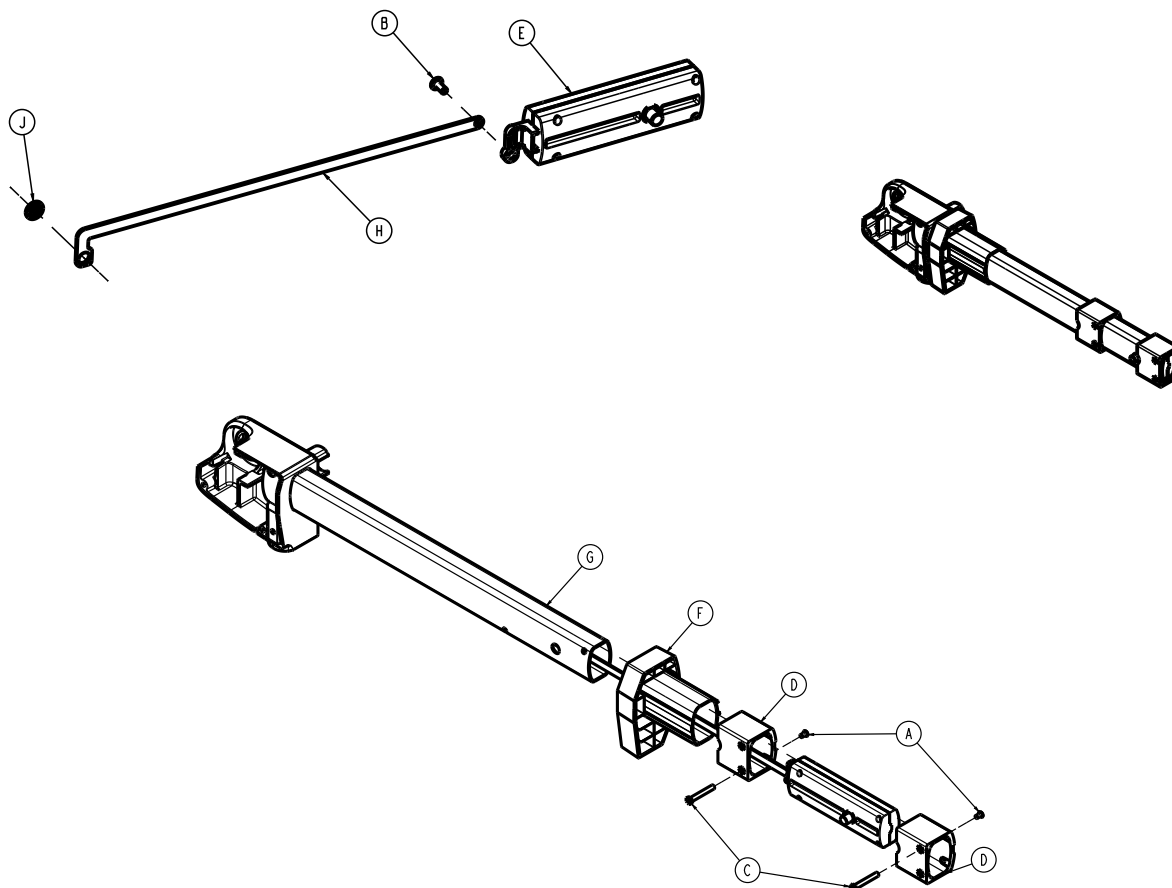
650700080022 Rev AA (Reference only)



| Item | Number       | Name                           | Quantity |
|------|--------------|--------------------------------|----------|
| A    | 0038-570-000 | Compression wire               | 1        |
| B    | 6500-001-025 | Latch assembly                 | 1        |
| C    | 6500-001-091 | Housing latch, top             | 1        |
| D    | 6500-001-092 | Housing latch, bottom          | 1        |
| E    | 650700080138 | Extension release latch, right | 1        |
| F    | 700000763860 | Compression wire               | 1        |

# Housing assembly, foot end, left

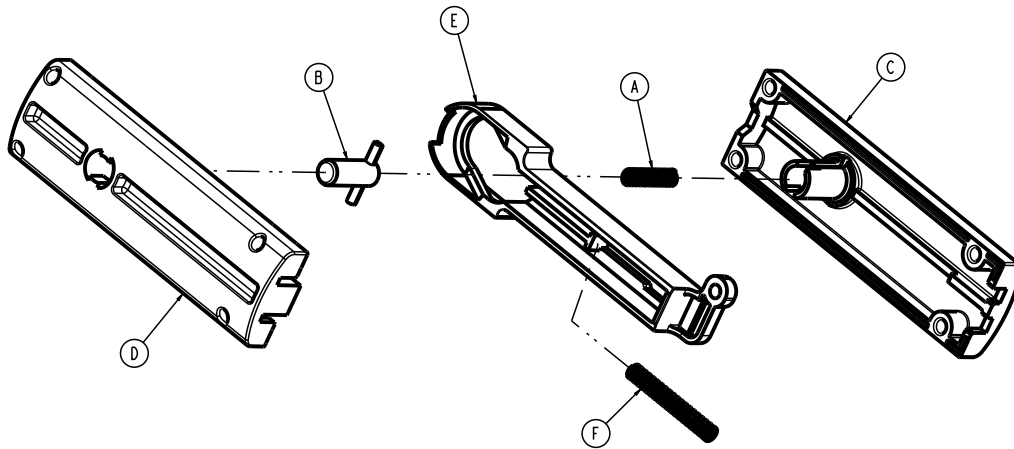
650700080016 Rev AC (Reference only)



| Item | Number       | Name                                      | Quantity |
|------|--------------|---|----------|
| A    | 0004-883-000 | Button head cap screw                     | 2        |
| B    | 0025-126-000 | Semi-tubular rivet                        | 1        |
| C    | 6085-001-169 | Head section nut                          | 2        |
| D    | 6085-001-170 | Internal bearing                          | 2        |
| E    | 650700080023 | Latch assembly, foot end, left (page 176) | 1        |
| F    | 650700080132 | Outer rail end cap, foot end, left        | 1        |
| G    | 650700080140 | Foot end housing bonding, left            | 1        |
| H    | 650700080142 | Extension release latch link              | 1        |
| J    | 700001235118 | Flange bearing                            | 1        |

# Latch assembly, foot end, left

650700080023 Rev AA (Reference only)

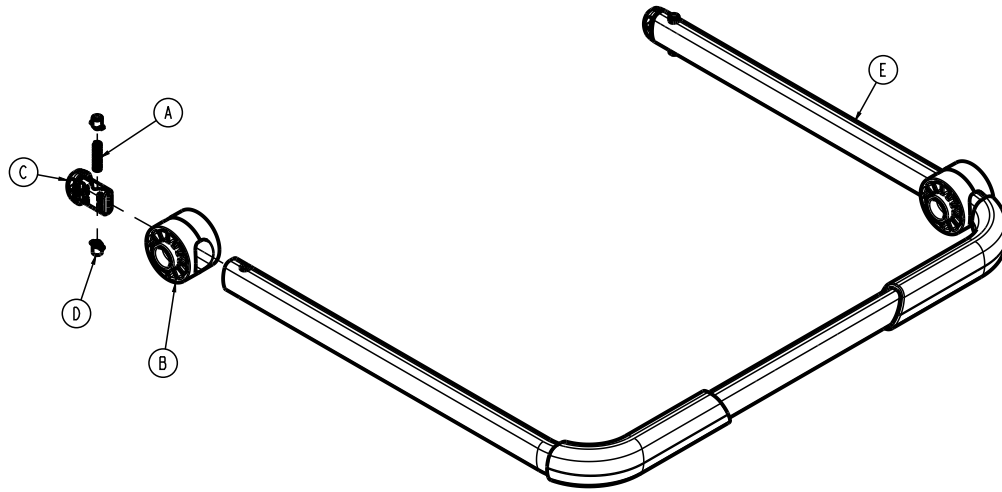


| Item | Number       | Name                          | Quantity |
|------|--------------|-------------------------------|----------|
| A    | 0038-570-000 | Compression wire              | 1        |
| B    | 6500-001-025 | Latch assembly                | 1        |
| C    | 6500-001-091 | Housing latch, top            | 1        |
| D    | 6500-001-092 | Housing latch, bottom         | 1        |
| E    | 650700080139 | Extension release latch, left | 1        |
| F    | 700000763860 | Compression wire              | 1        |



# Wagon handle assembly

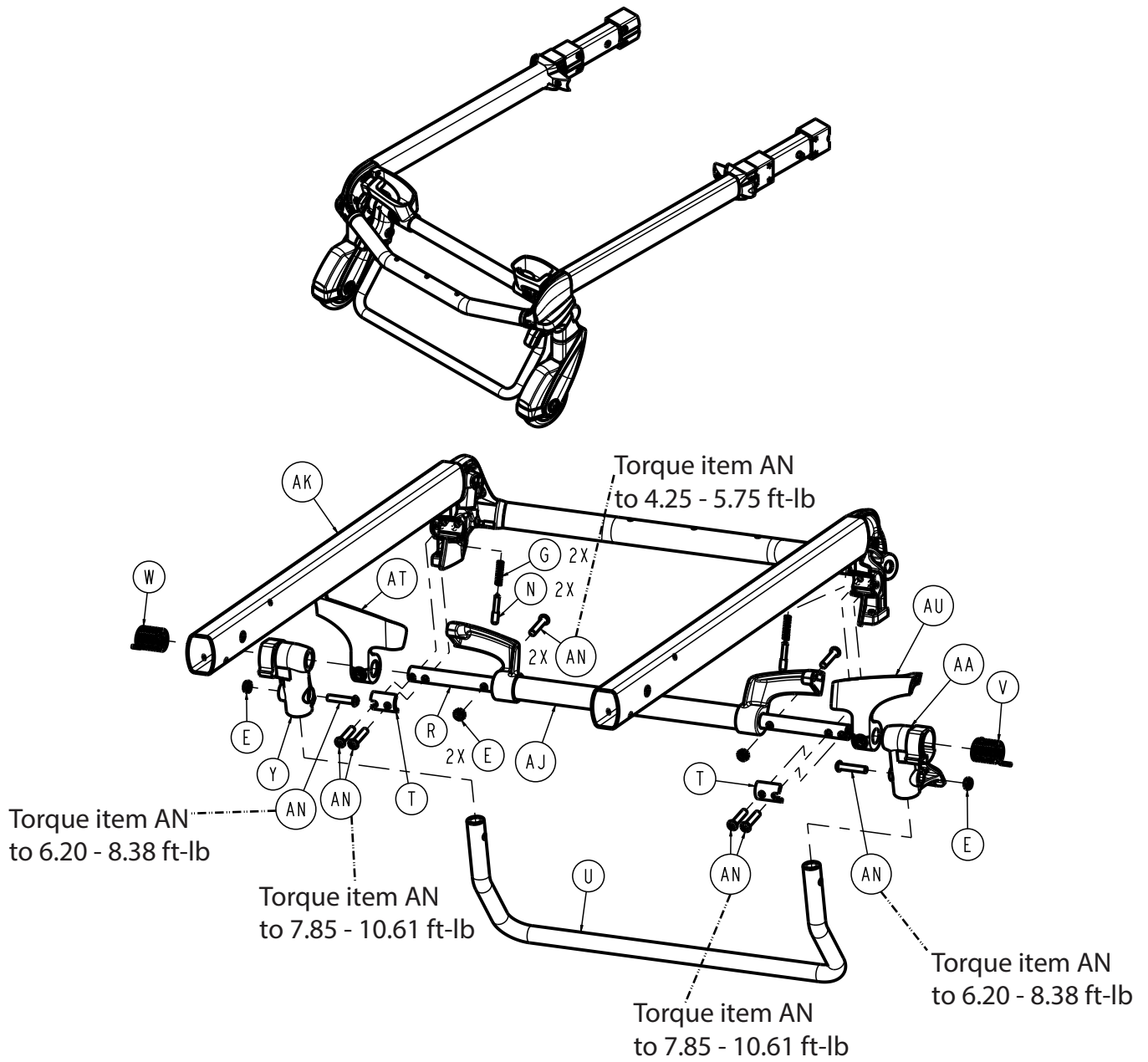
650700080017 Rev AA (Reference only)

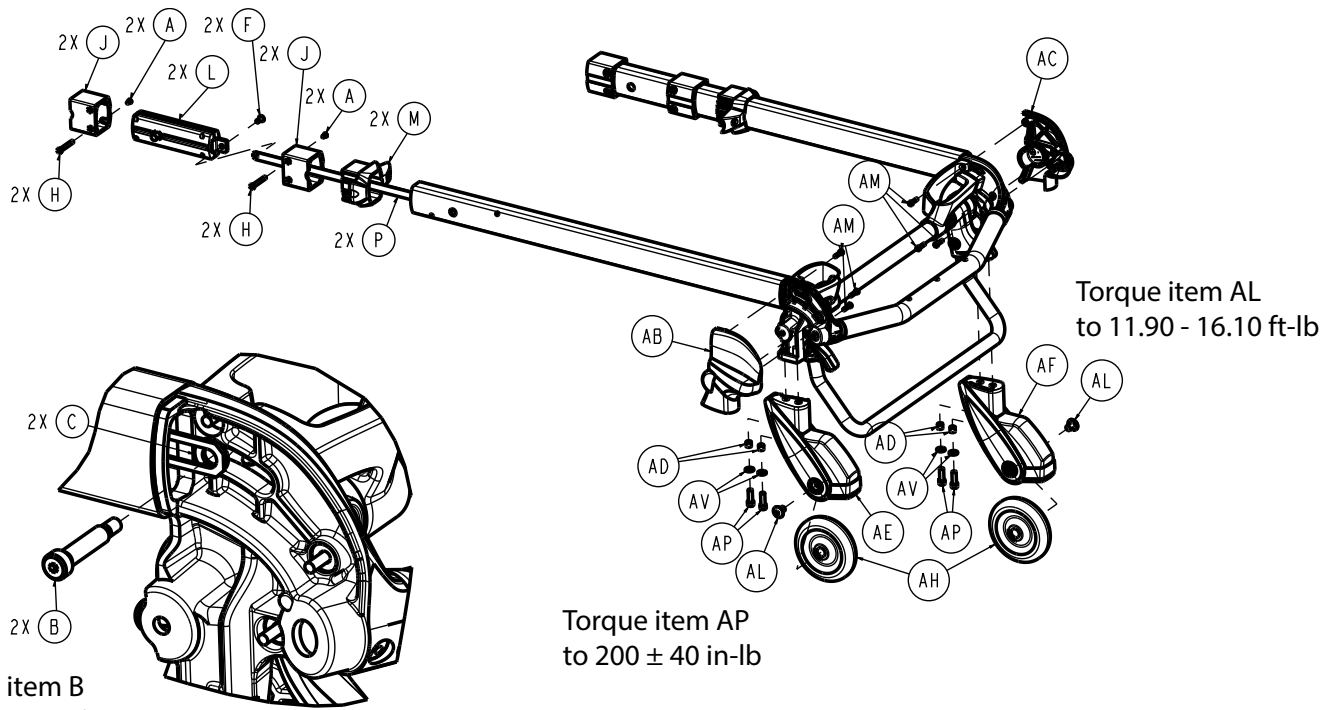


| Item | Number       | Name                       | Quantity |
|------|--------------|----------------------------|----------|
| A    | 0038-570-000 | Compression wire           | 2        |
| B    | 650700080144 | Wagon handle joint         | 2        |
| C    | 650700080147 | Wagon handle bar cap       | 2        |
| D    | 650700080148 | Wagon handle bar pin       | 4        |
| E    | 650700080204 | Wagon handle bar, overmold | 1        |

# Head section assembly

650700080007 Rev AE (Reference only)





Torque item B  
to 2.55 - 3.45 ft-lb

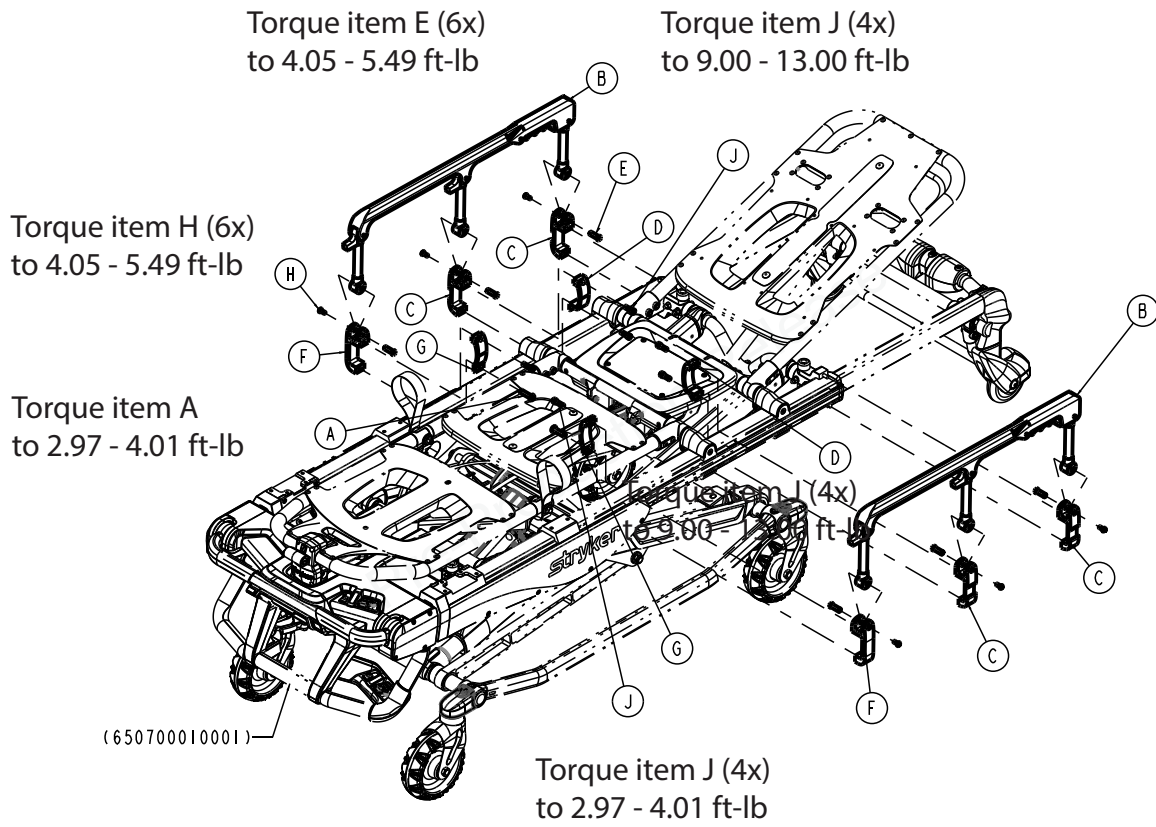
Torque item AP  
to 200 ± 40 in-lb

| Item | Number       | Name                             | Quantity |
|------|--------------|----------------------------------|----------|
| A    | 0004-883-000 | Button head cap screw            | 4        |
| B    | 0008-030-000 | Socket head shoulder bolt        | 2        |
| C    | 0014-002-000 | Washer                           | 2        |
| E    | 0016-102-000 | Nylock nut                       | 4        |
| F    | 0025-126-000 | Semi-tubular rivet               | 2        |
| G    | 0038-570-000 | Compression wire                 | 2        |
| H    | 6085-001-169 | Head section nut                 | 4        |
| J    | 6085-001-170 | Internal bearing                 | 4        |
| L    | 6500-001-026 | Head section lock assembly       | 2        |
| M    | 6500-001-087 | Cap bearing                      | 2        |
| N    | 6500-001-093 | Safety bar lock pin              | 2        |
| P    | 6500-001-096 | Head section release link        | 2        |
| R    | 6500-001-220 | Head section pivot cross tube    | 1        |
| T    | 6500-001-221 | Cross tube clamp                 | 2        |
| U    | 6500-001-322 | Sliding head section safety bar  | 1        |
| V    | 6500-001-325 | Safety bar torsion spring, left  | 1        |
| W    | 6500-001-326 | Safety bar torsion spring, right | 1        |
| Y    | 6500-002-107 | Safety bar pivot, right          | 1        |
| AA   | 6500-002-108 | Safety bar pivot, left           | 1        |
| AB   | 6500-002-109 | Load wheel horn cover, left      | 1        |
| AC   | 6500-002-110 | Load wheel horn cover, right     | 1        |
| AD   | 6500-002-114 | Compression limiter sleeve       | 4        |
| AE   | 6500-002-120 | Load wheel horn, left            | 1        |
| AF   | 6500-002-121 | Load wheel horn, right           | 1        |
| AH   | 6500-101-086 | Load wheel, hard                 | 2        |
| AJ   | 650700080155 | Activation bonding, head end     | 1        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>               | <b>Quantity</b> |
|-------------|---------------|---------------------------|-----------------|
| AK          | 650700080150  | Head section bonding      | 1               |
| AL          | 700000686337  | Truss head machine screw  | 2               |
| AM          | 700000687300  | Pan head tapping screw    | 6               |
| AN          | 700000689588  | Button head cap screw     | 8               |
| AP          | 700000721221  | Socket head cap screw     | 4               |
| AT          | 6500-001-280  | Head section guard, right | 1               |
| AU          | 6500-001-281  | Head section guard, left  | 1               |
| AV          | 700001671948  | Flat washer               | 4               |

# Standard siderail option - 650709990102

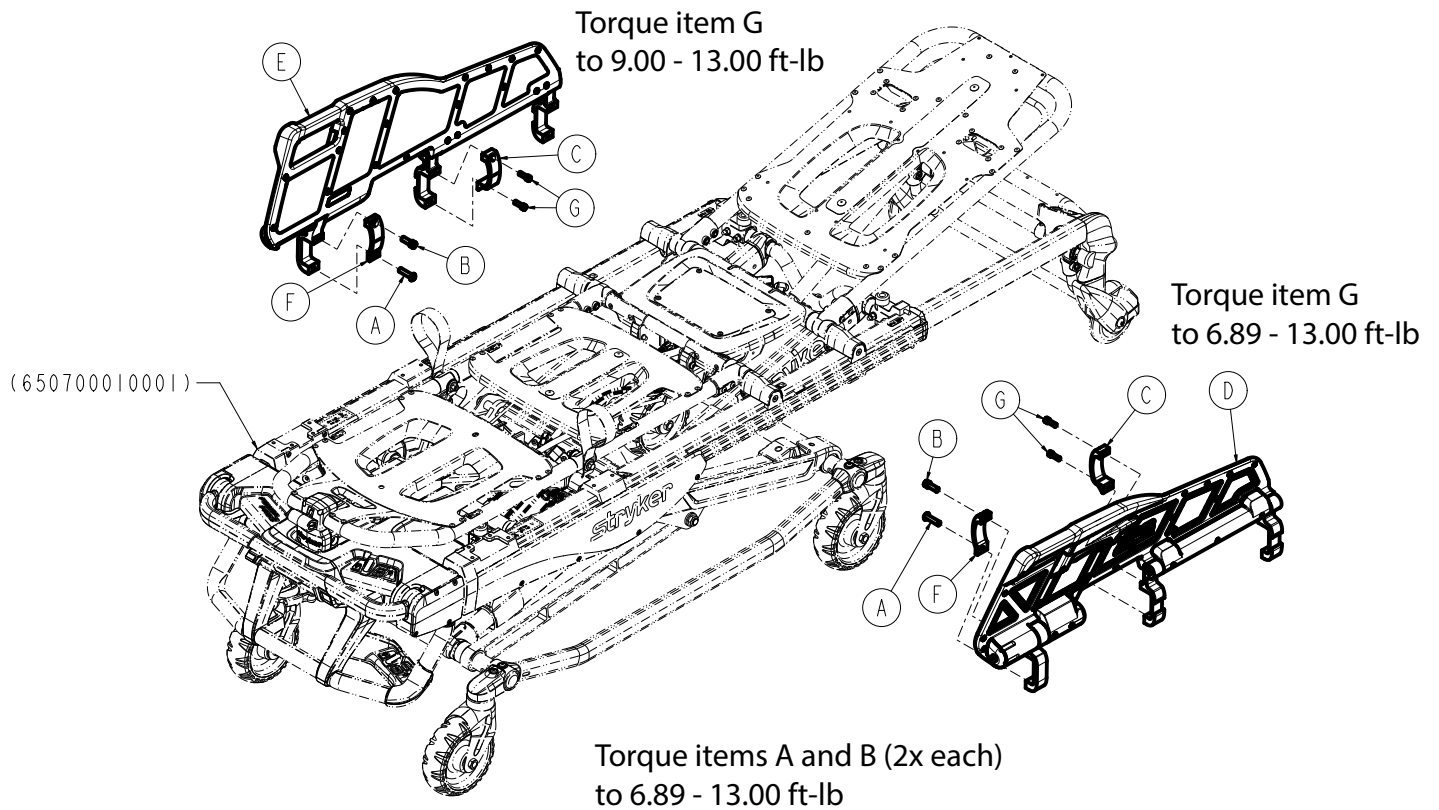
Rev AD (Reference only)



| Item | Number       | Name                               | Quantity |
|------|--------------|------------------------------------|----------|
| A    | 0004-130-000 | Hex socket button head cap screw   | 2        |
| B    | 6082-026-010 | Siderail assembly                  | 2        |
| C    | 6500-001-116 | Siderail bracket                   | 4        |
| D    | 6500-001-117 | Siderail clamp                     | 2        |
| E    | 6500-001-118 | Siderail nut                       | 6        |
| F    | 650700020169 | Standard siderail mounting bracket | 2        |
| G    | 650700020171 | Standard siderail inner bracket    | 2        |
| H    | 700000689483 | Button head cap screw              | 6        |
| J    | 700000721221 | Socket head cap screw              | 6        |

# XPS siderail option - 650709990101

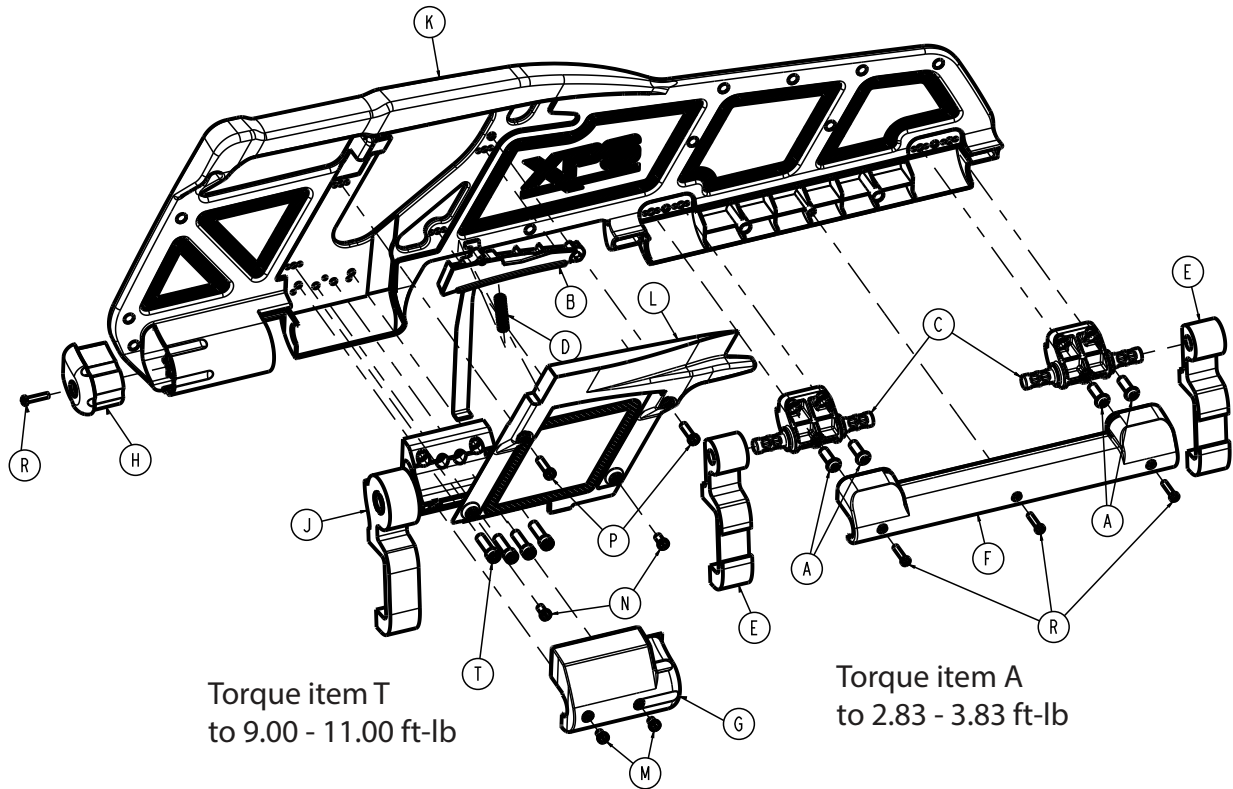
Rev AC (Reference only)



| Item | Number       | Name                             | Quantity |
|------|--------------|----------------------------------|----------|
| A    | 0004-130-000 | Hex socket button head cap screw | 2        |
| B    | 0004-213-000 | Socket head cap screw            | 2        |
| C    | 6500-001-117 | Siderail clamp                   | 2        |
| D    | 650700020021 | XPS assembly, left (page 183)    | 1        |
| E    | 650700020022 | XPS assembly, right (page 184)   | 1        |
| F    | 650700020168 | XPS inner bracket                | 2        |
| G    | 700000721221 | Socket head cap screw            | 4        |

# XPS assembly, left

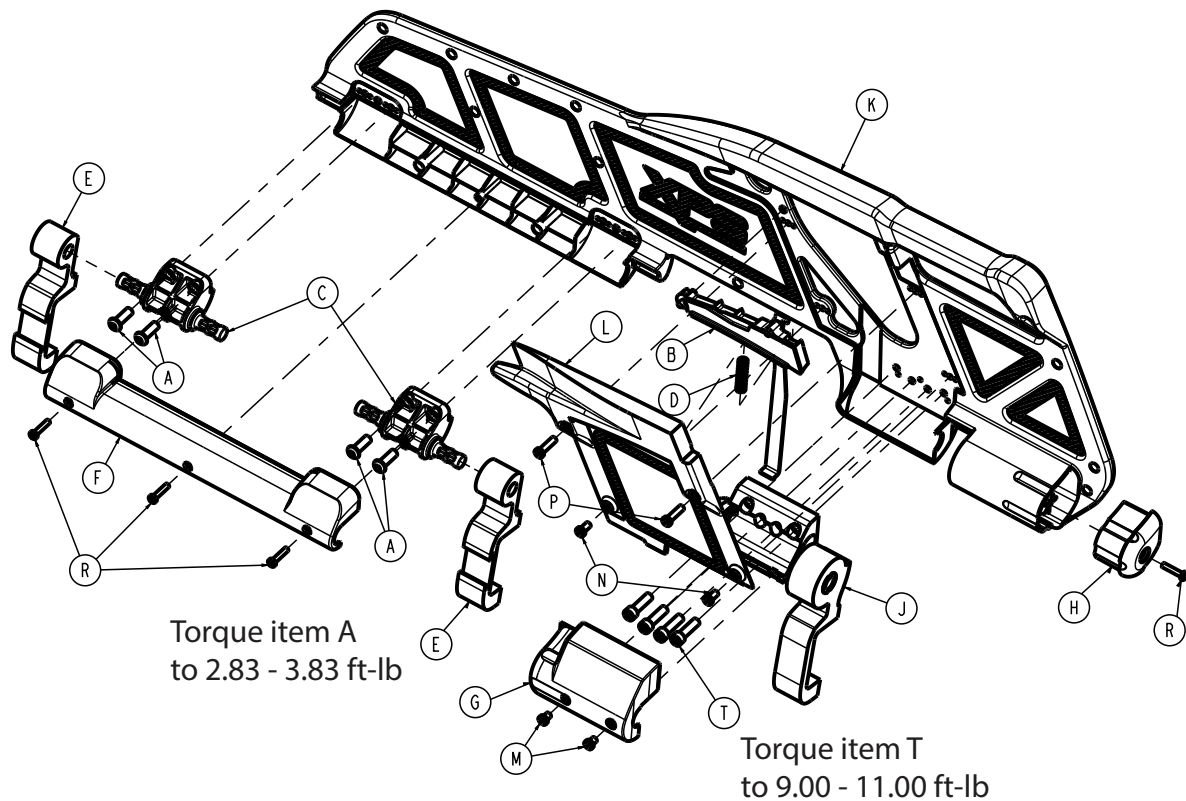
650700020021 Rev AB (Reference only)



| Item | Number       | Name                        | Quantity |
|------|--------------|-----------------------------|----------|
| A    | 0004-468-000 | Button head cap screw       | 4        |
| B    | 6500-003-045 | XPS handle assembly, left   | 1        |
| C    | 6500-003-084 | Support pivot               | 2        |
| D    | 6500-003-085 | XPS handle spring           | 1        |
| E    | 6500-003-086 | XPS siderail pivot          | 2        |
| F    | 6500-003-097 | XPS pivot cover             | 1        |
| G    | 6500-003-120 | Ratchet cover, left         | 1        |
| H    | 6500-003-122 | Cap end cover               | 1        |
| J    | 650700020023 | XPS ratchet assembly, left  | 1        |
| K    | 650700020201 | XPS overmold assembly, left | 1        |
| L    | 650700020203 | XPS release cover, right    | 1        |
| M    | 700000718375 | Socket head cap screw       | 2        |
| N    | 700000718378 | Socket head cap screw       | 2        |
| P    | 700000718380 | Socket head cap screw       | 2        |
| R    | 700000719623 | Pan head tapping screw      | 4        |
| T    | 700000721223 | Socket head cap screw       | 4        |

# XPS assembly, right

650700020022 Rev AB (Reference only)

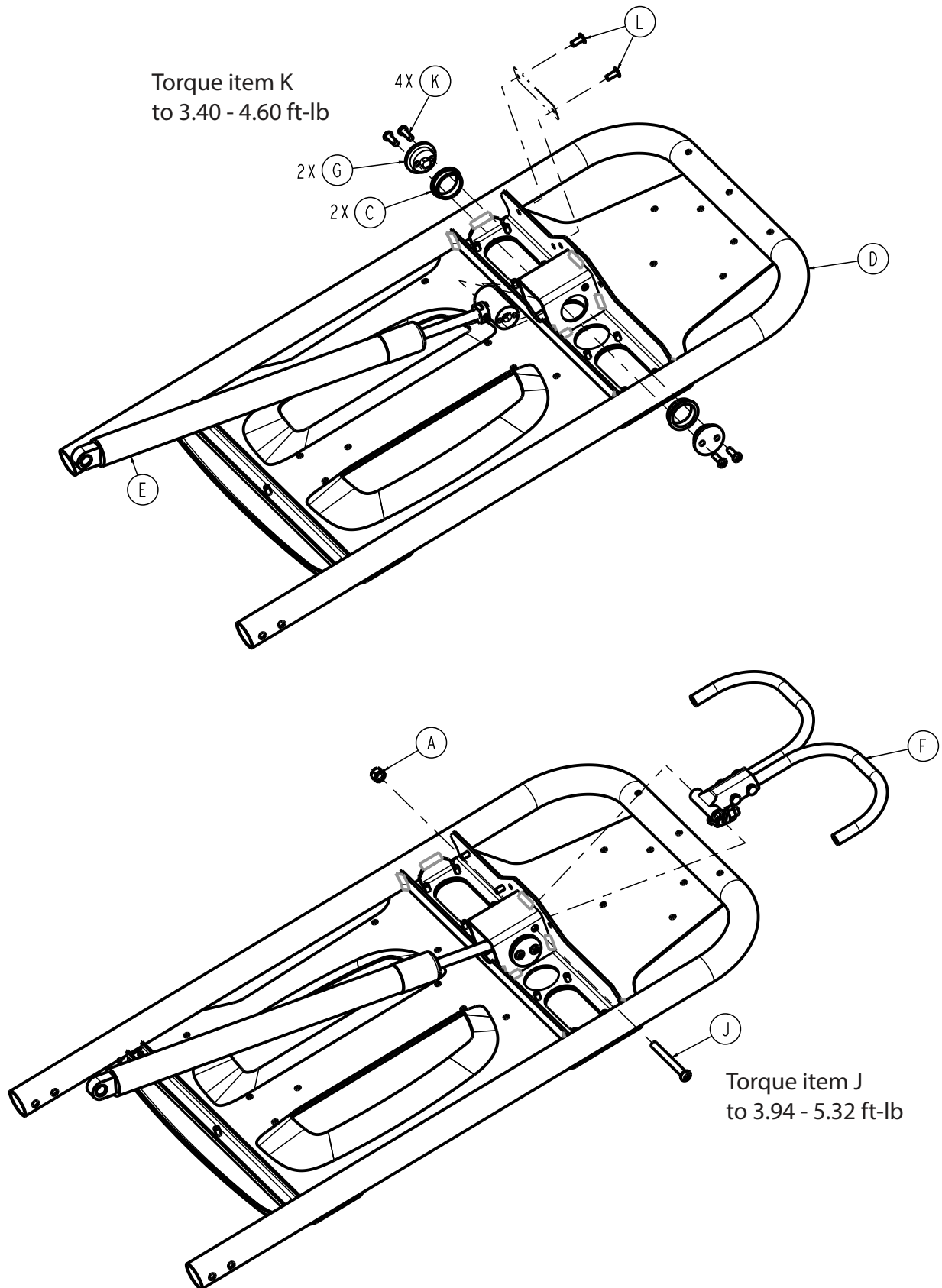


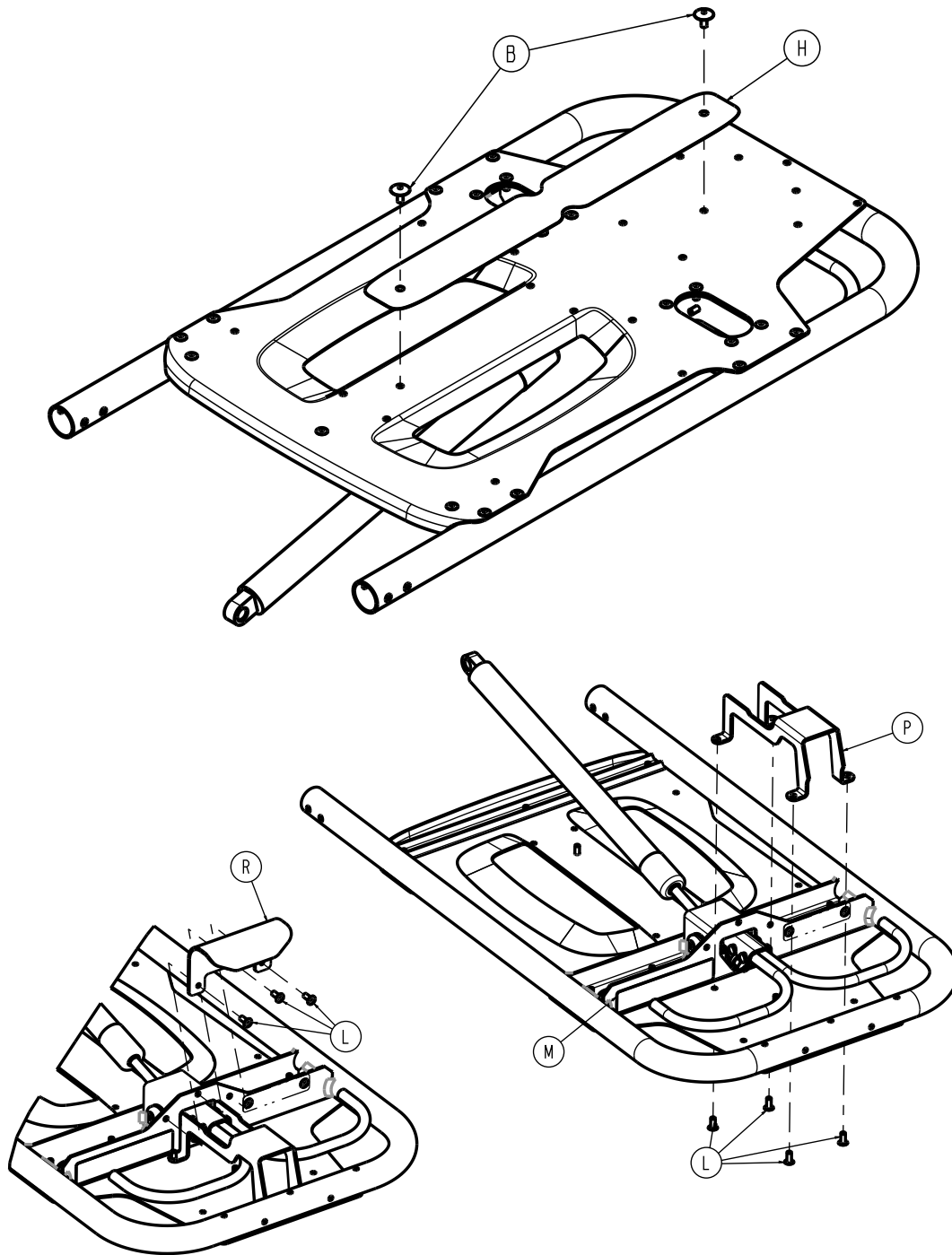
| Item | Number       | Name                         | Quantity |
|------|--------------|------------------------------|----------|
| A    | 0004-468-000 | Button head cap screw        | 4        |
| B    | 6500-003-043 | XPS handle assembly, right   | 1        |
| C    | 6500-003-084 | Support pivot                | 2        |
| D    | 6500-003-085 | XPS handle spring            | 1        |
| E    | 6500-003-086 | XPS siderail pivot           | 2        |
| F    | 6500-003-097 | XPS pivot cover              | 1        |
| G    | 6500-003-119 | Ratchet cover, right         | 1        |
| H    | 6500-003-121 | Cap end cover                | 1        |
| J    | 650700020024 | XPS ratchet assembly, right  | 1        |
| K    | 650700020202 | XPS overmold assembly, right | 1        |
| L    | 650700020204 | XPS release cover, right     | 1        |
| M    | 700000718375 | Socket head cap screw        | 2        |
| N    | 700000718378 | Socket head cap screw        | 2        |
| P    | 700000718380 | Socket head cap screw        | 2        |
| R    | 700000719623 | Pan head tapping screw       | 4        |
| T    | 700000721223 | Socket head cap screw        | 4        |



# Fowler assembly

650700080002 Rev AG (Reference only)



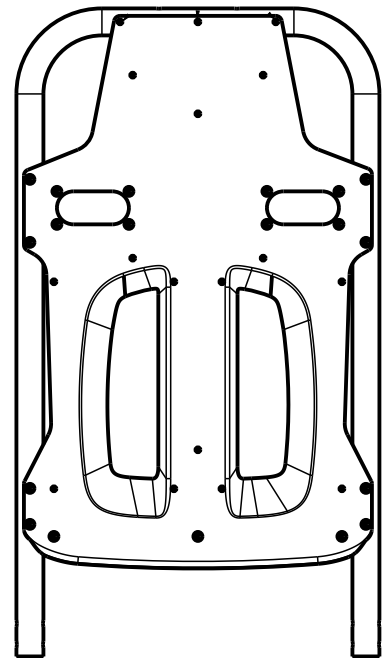
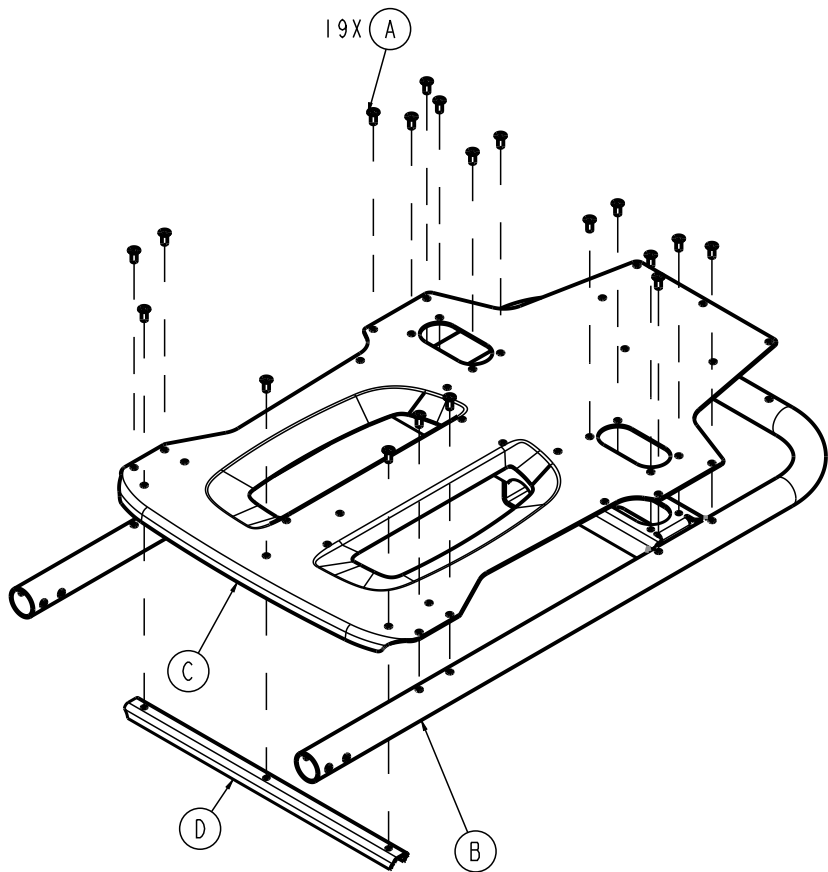


| Item | Number       | Name                                | Quantity |
|------|--------------|-------------------------------------|----------|
| A    | 0016-028-000 | Fiberlock hex nut                   | 1        |
| B    | 0025-132-000 | Large flange rivet                  | 2        |
| C    | 0946-035-025 | Liner                               | 2        |
| D    | 650700080001 | Fowler frame assembly (page 188)    | 1        |
| E    | 650700080012 | Fowler cylinder assembly (page 189) | 1        |
| F    | 650700080013 | Fowler handle assembly (page 190)   | 1        |
| G    | 650700080179 | Gas spring yoke end                 | 2        |
| H    | 650700080182 | Fowler mattress loop                | 1        |
| J    | 700000689600 | Button head cap screw               | 1        |
| K    | 700000689500 | Button head cap screw               | 4        |

| <b>Item</b> | <b>Number</b> | <b>Name</b>          | <b>Quantity</b> |
|-------------|---------------|----------------------|-----------------|
| L           | 0025-079-000  | Dome head pop rivet  | 9               |
| M           | 650700010901  | Label, specification | 1               |
| P           | 650700080228  | Fowler release guard | 1               |
| R           | 6500-001-237  | Equipment hook       | 1               |

# Fowler frame assembly

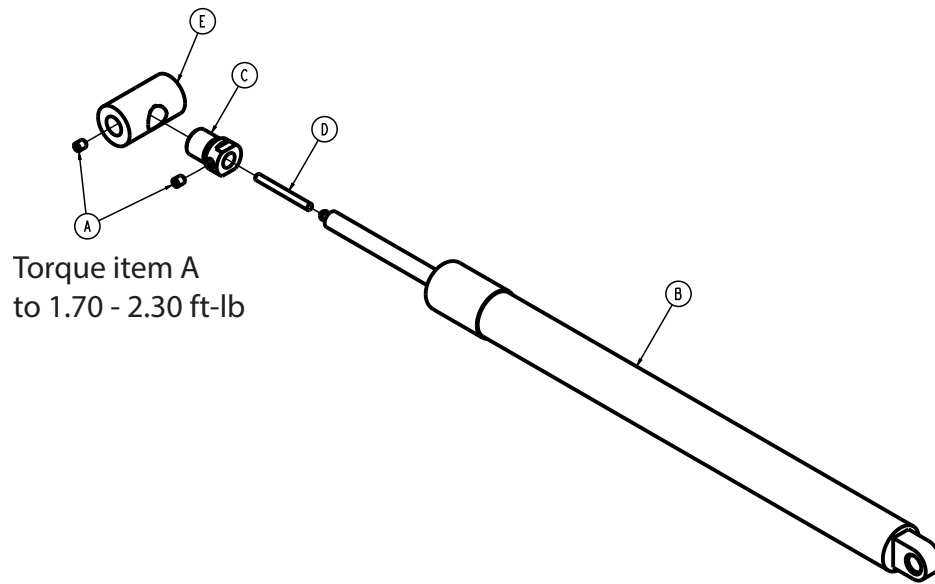
650700080001 Rev AC (Reference only)



| Item | Number       | Name                | Quantity |
|------|--------------|---------------------|----------|
| A    | 0025-079-000 | Dome head pop rivet | 19       |
| B    | 650700080110 | Fowler weldment     | 1        |
| C    | 650700080171 | Fowler skin         | 1        |
| D    | 650700080222 | Fowler crossbrace   | 1        |

# Fowler cylinder assembly

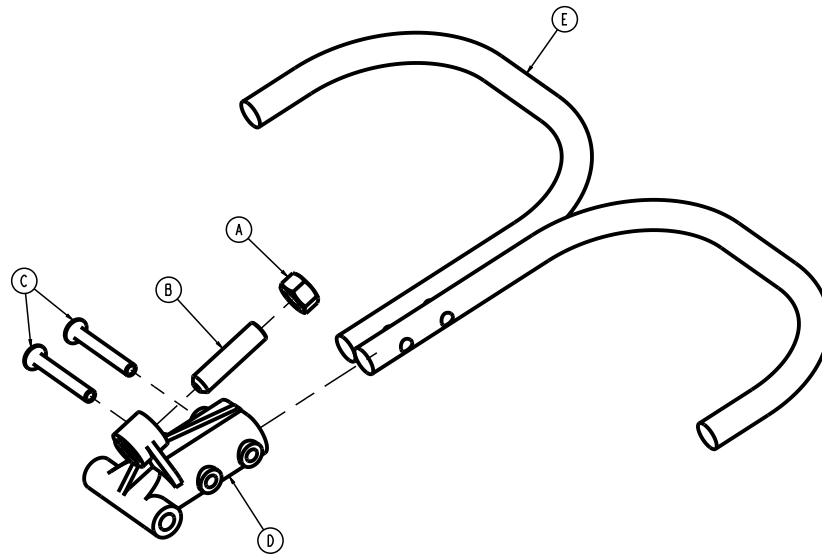
650700080012 Rev AC (Reference only)



| Item | Number       | Name                                   | Quantity |
|------|--------------|--|----------|
| A    | 0021-050-000 | Set screw                              | 2        |
| B    | 6500-031-077 | Gas cylinder                           | 1        |
| C    | 6506-012-001 | Fowler extension sleeve, ambulance cot | 1        |
| D    | 6506-012-002 | Fowler plunger, ambulance cot          | 1        |
| E    | 650700080178 | Gas spring yoke                        | 1        |

# Fowler handle assembly

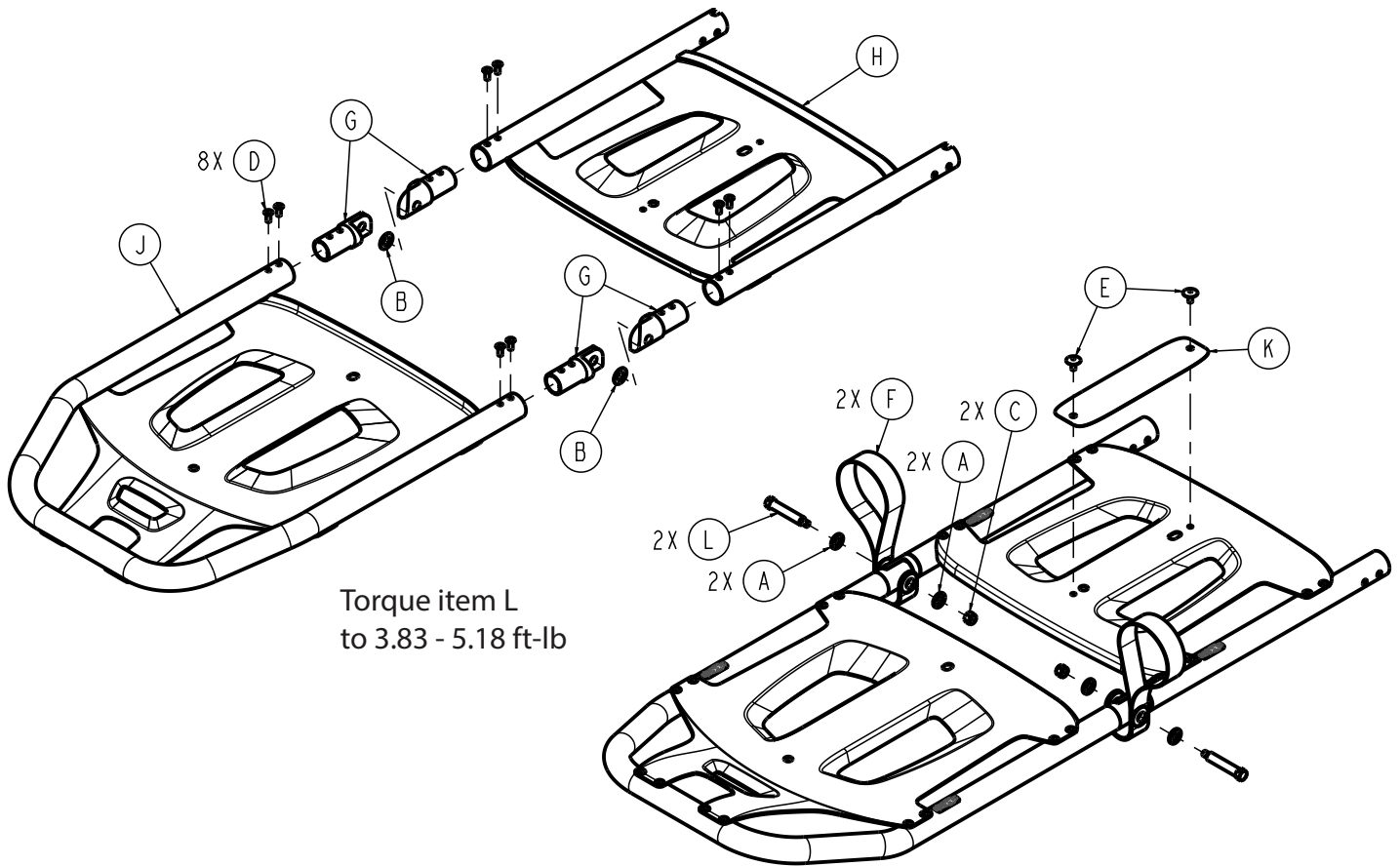
650700080013 Rev AA (Reference only)



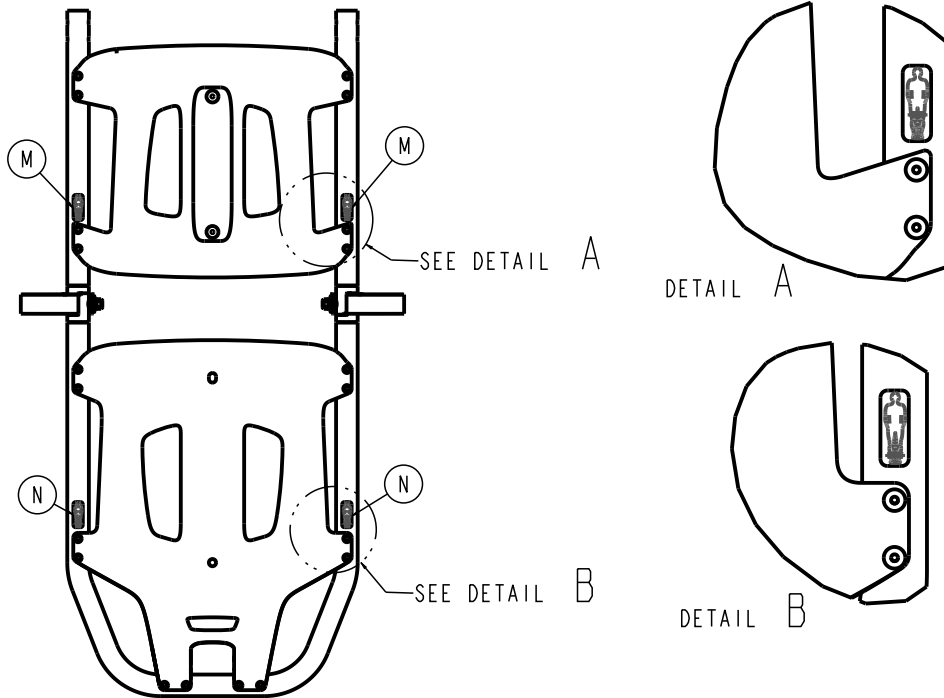
| Item | Number       | Name                                  | Quantity |
|------|--------------|---------------------------------------|----------|
| A    | 0015-050-000 | Hex nut                               | 1        |
| B    | 0021-138-000 | Set screw                             | 1        |
| C    | 0025-131-000 | Type S (oval) head semi-tubular rivet | 2        |
| D    | 6060-032-040 | Pivot Fowler lift - ambulance cot     | 1        |
| E    | 6082-032-052 | Release handle weldment - Fowler      | 1        |

# Gatch assembly

650700080006 Rev AC (Reference only)



Torque item L  
to 3.83 - 5.18 ft-lb

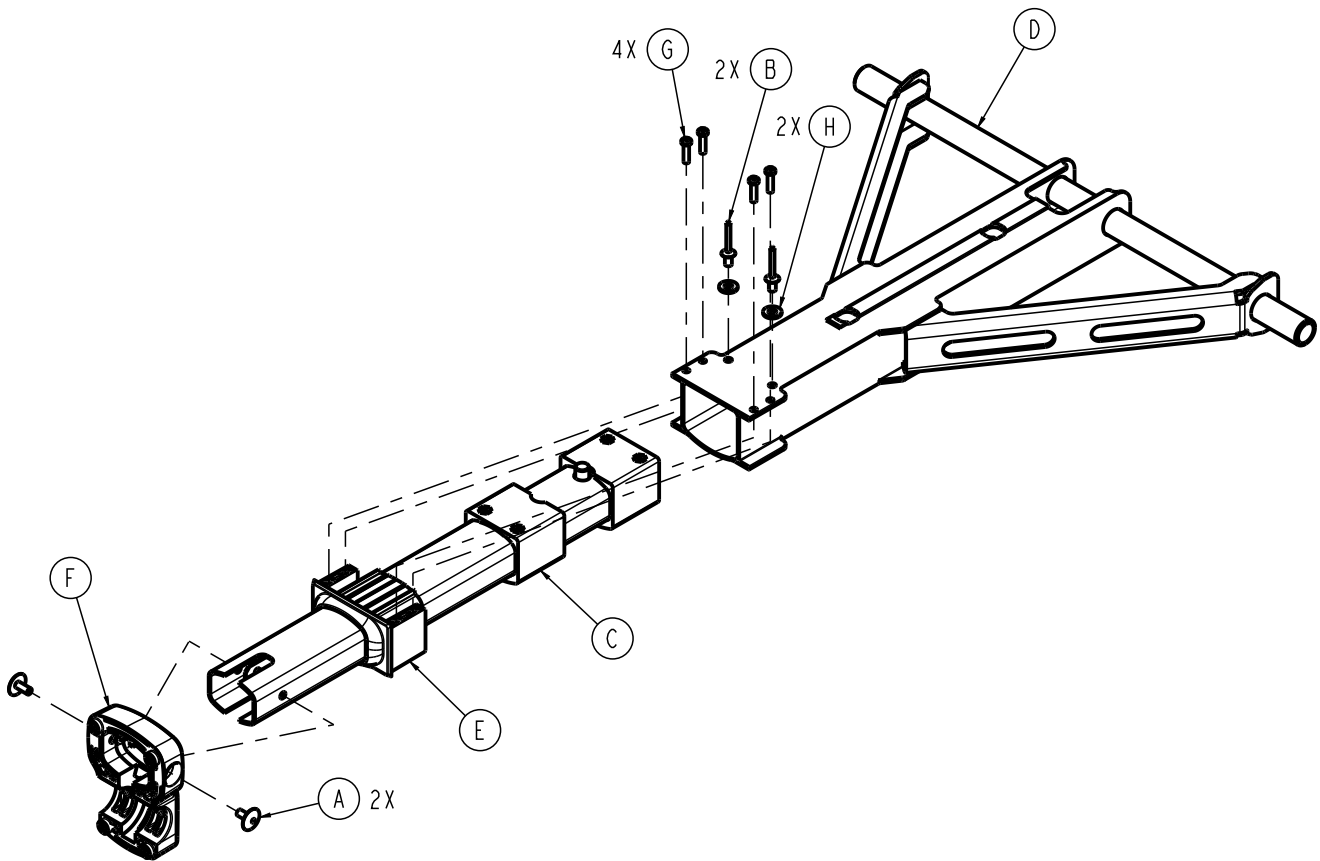


| Item | Number       | Name                             | Quantity |
|------|--------------|----------------------------------|----------|
| A    | 0011-448-000 | Plain washer                     | 4        |
| B    | 0014-020-000 | Flat washer                      | 2        |
| C    | 0016-028-000 | Fiberlock hex nut                | 2        |
| D    | 0025-079-000 | Dome head pop rivet              | 8        |
| E    | 0025-132-000 | Large flange rivet               | 2        |
| F    | 6100-031-096 | Trend lift strap                 | 2        |
| G    | 6100-031-108 | Gatch pivot                      | 4        |
| H    | 650700080003 | <i>Thigh assembly</i> (page 195) | 1        |
| J    | 650700080004 | <i>Foot assembly</i> (page 196)  | 1        |
| K    | 650700080187 | Thigh mattress loop              | 1        |
| L    | 6550-001-186 | Gatch pivot pin                  | 2        |
| M    | 650700010911 | Label, restraint, frame, thigh   | 2        |
| N    | 650700010912 | Label, restraint, frame, ankle   | 2        |



# Gatch support assembly

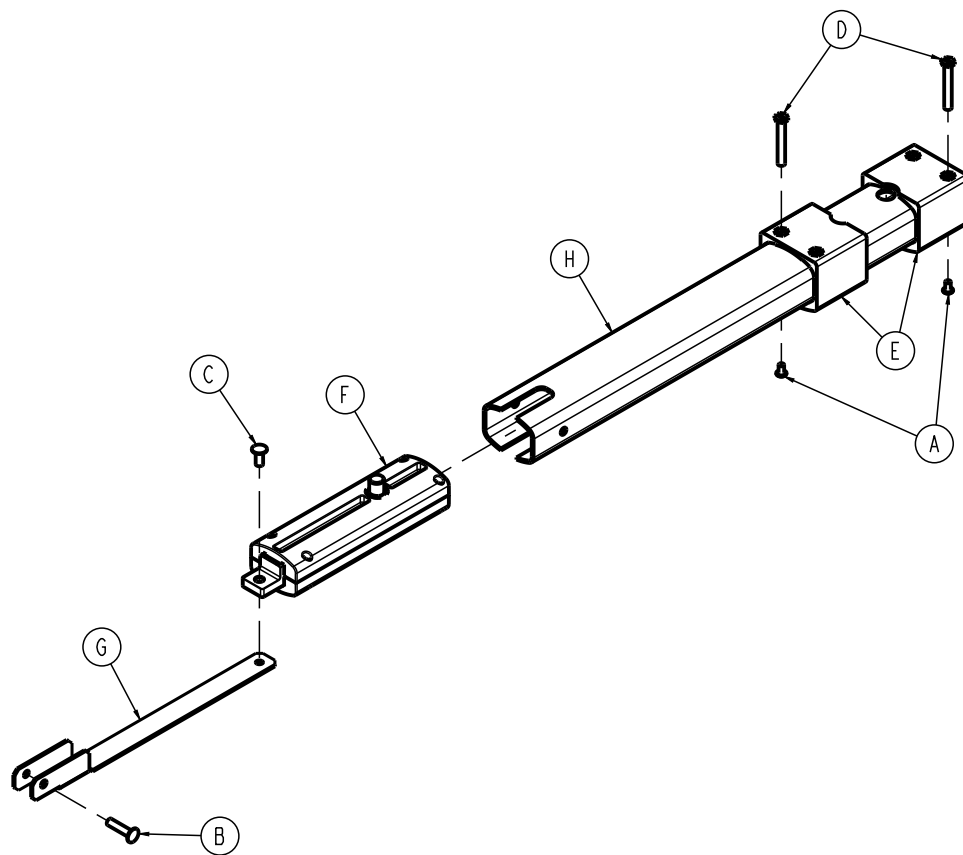
650700080011 Rev AD (Reference only)



| Item | Number       | Name                                  | Quantity |
|------|--------------|---------------------------------------|----------|
| A    | 0025-132-000 | Large flange rivet                    | 2        |
| B    | 0025-271-000 | Closed end blind rivet, dome head     | 2        |
| C    | 650700080018 | Telescoping Gatch assembly (page 194) | 1        |
| D    | 650700080105 | Gatch support weldment                | 1        |
| E    | 650700080186 | Gatch bearing end cap                 | 1        |
| F    | 6550-001-125 | Gatch release, back                   | 1        |
| G    | 700000687300 | Pan head tapping screw                | 4        |
| H    | 0011-453-000 | Plain washer                          | 2        |

# Telescoping Gatch assembly

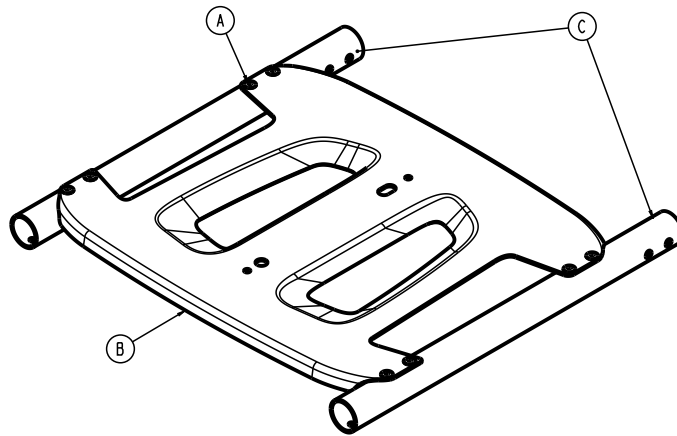
650700080018 Rev AC (Reference only)



| Item | Number       | Name                   | Quantity |
|------|--------------|------------------------|----------|
| A    | 0004-883-000 | Button head cap screw  | 2        |
| B    | 0025-125-000 | Semi-tubular steel     | 1        |
| C    | 0025-126-000 | Semi-tubular rivet     | 1        |
| D    | 6085-001-169 | Head section nut       | 2        |
| E    | 6085-001-170 | Internal bearing       | 2        |
| F    | 6500-001-026 | Head section lock assy | 1        |
| G    | 6550-001-115 | Gatch link             | 1        |
| H    | 6550-001-119 | Gatch inner tube       | 1        |

# Thigh assembly

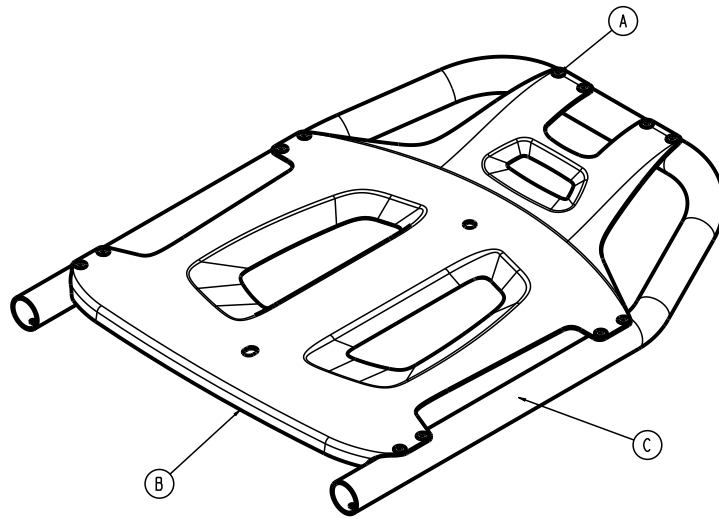
650700080003 Rev AA (Reference only)



| Item | Number       | Name                | Quantity |
|------|--------------|---------------------|----------|
| A    | 0025-079-000 | Dome head pop rivet | 8        |
| B    | 650700080173 | Thigh skin          | 1        |
| C    | 650700080183 | Thigh frame         | 2        |

# Foot assembly

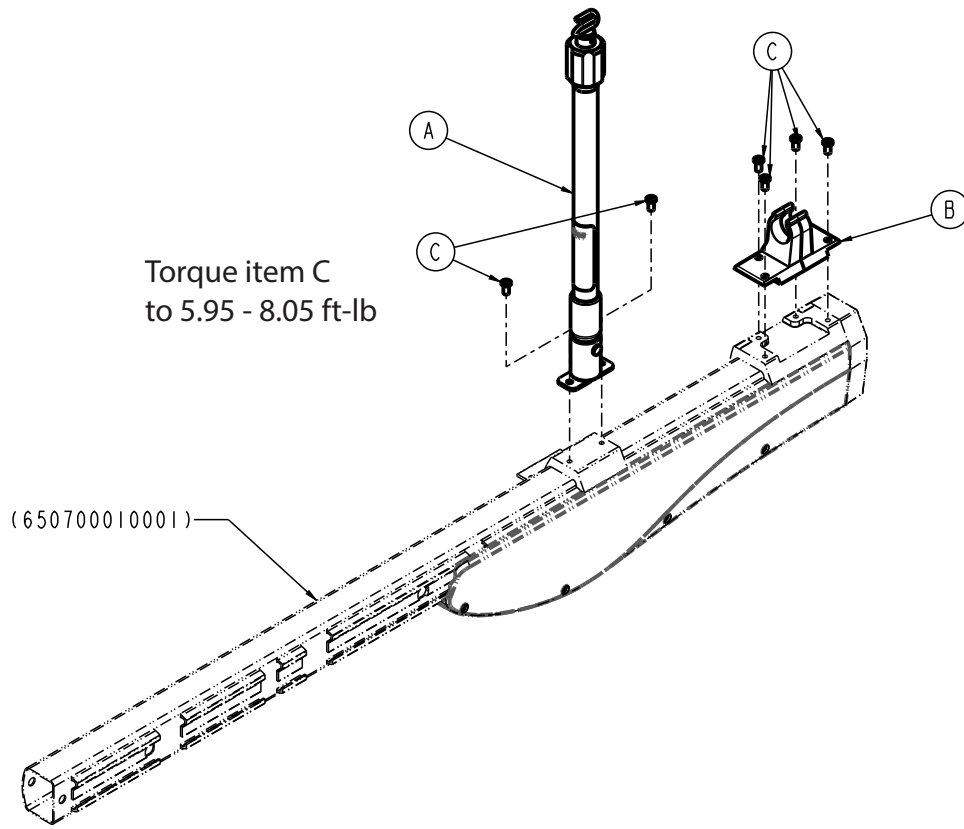
650700080004 Rev AA (Reference only)



| Item | Number       | Name                | Quantity |
|------|--------------|---------------------|----------|
| A    | 0025-079-000 | Dome head pop rivet | 12       |
| B    | 650700080169 | Foot skin           | 1        |
| C    | 650700080184 | Foot frame          | 1        |

# IV pole, two-stage, right - 650700350101

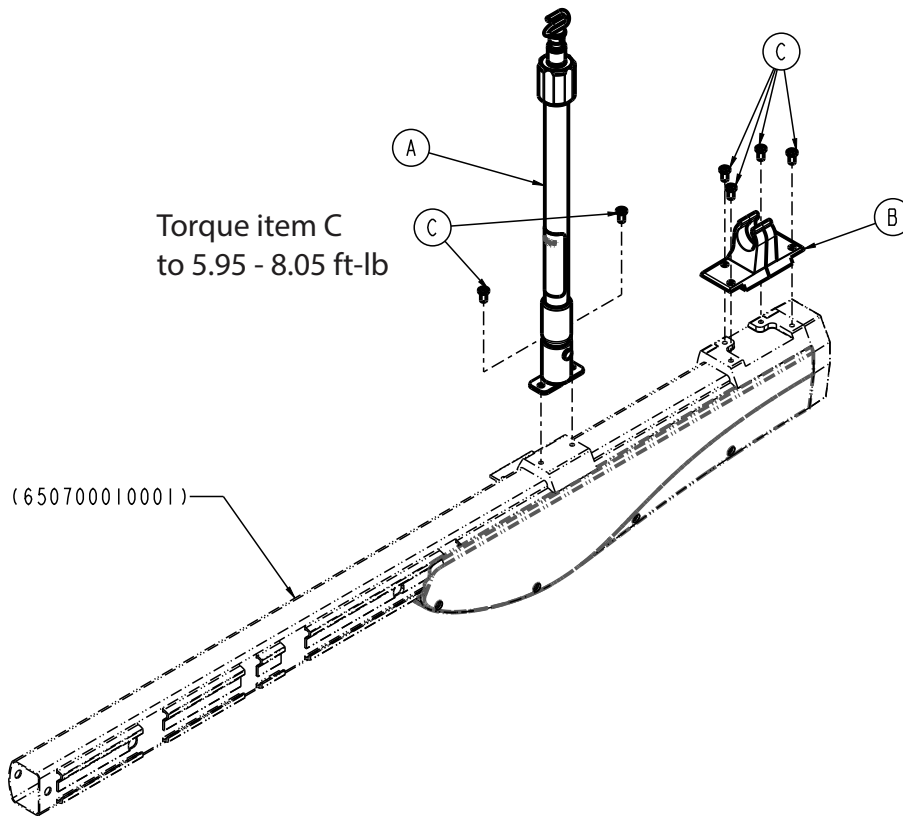
Rev AE (Reference only)



| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 650700450033 | HAVASU IV pole assembly, two-stage, right (page 204) | 1        |
| B    | 650700450133 | IV pole clip   | 1        |
| C    | 700000913363 | Button head cap screw                                | 6        |

# IV pole, three-stage, right - 650700350102

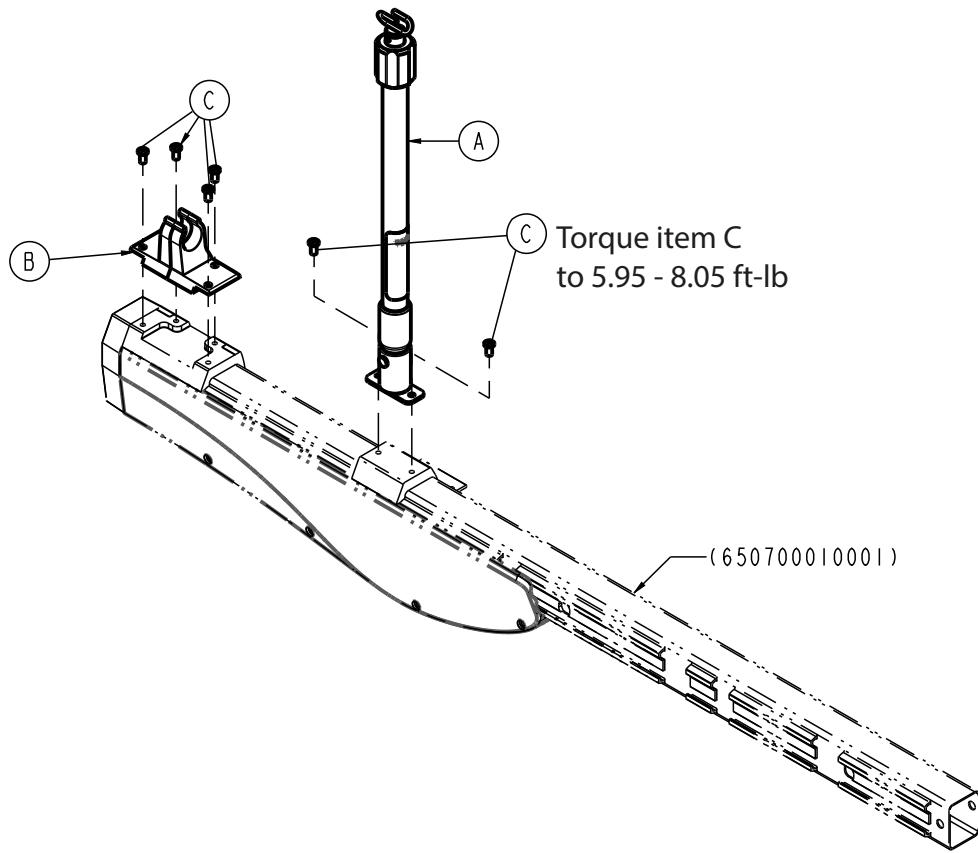
Rev AD (Reference only)



| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 650700450034 | HAVASU IV pole assembly, three-stage, right (page 206) | 1        |
| B    | 650700450133 | IV pole clip   | 1        |
| C    | 700000913363 | Button head cap screw                                  | 6        |

# IV pole, two-stage, left - 650700350105

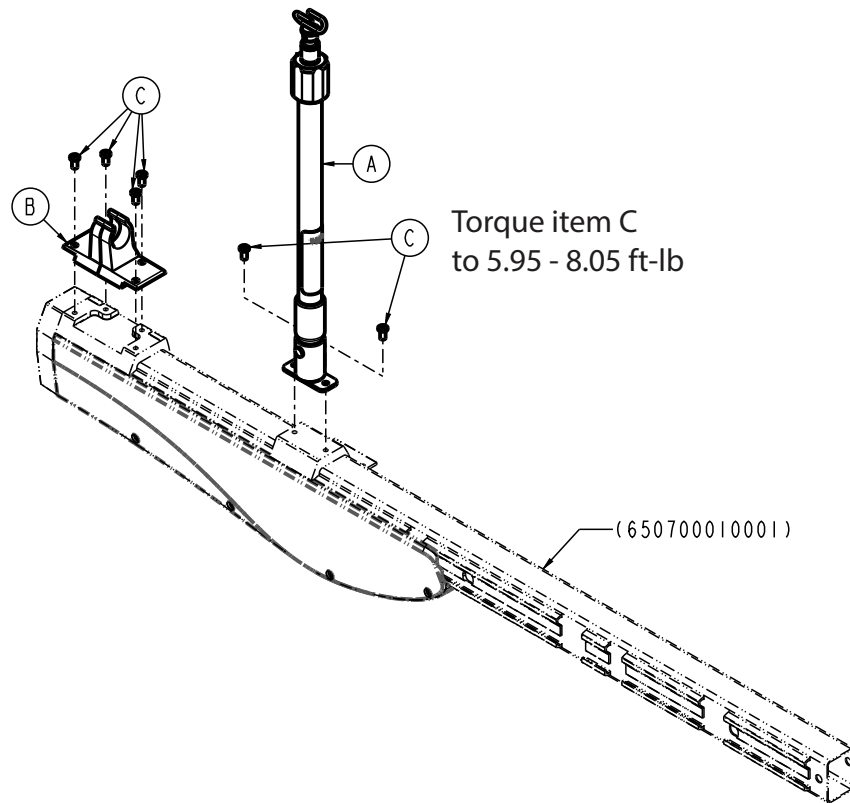
Rev AD (Reference only)



| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 650700450035 | HAVASU™ IV pole assembly, two-stage, left (page 203) | 1        |
| B    | 650700450133 | IV pole clip   | 1        |
| C    | 700000913363 | Button head cap screw                                | 6        |

# IV pole, three-stage, left - 650700350106

Rev AD (Reference only)

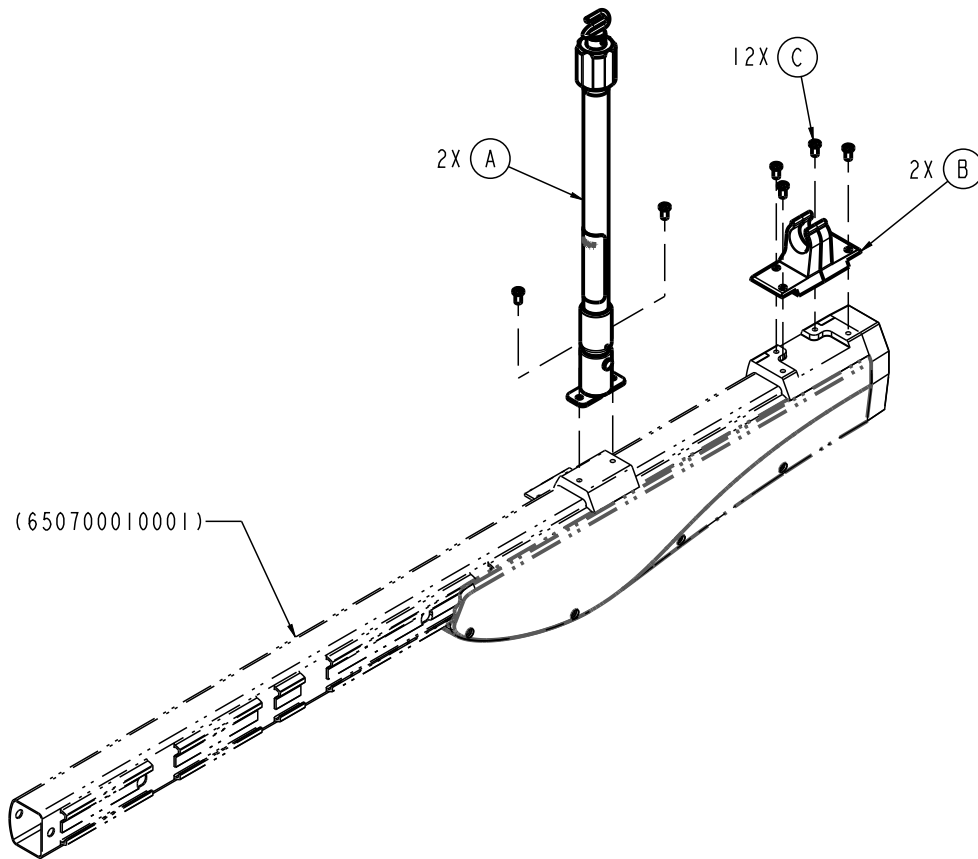


| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| A    | 650700450036 | HAVASU IV pole assembly, three-stage, left (page 205) | 1        |
| B    | 650700450133 | IV pole clip  | 1        |
| C    | 700000913363 | Button head cap screw                                 | 6        |



# IV pole, two-stage, dual

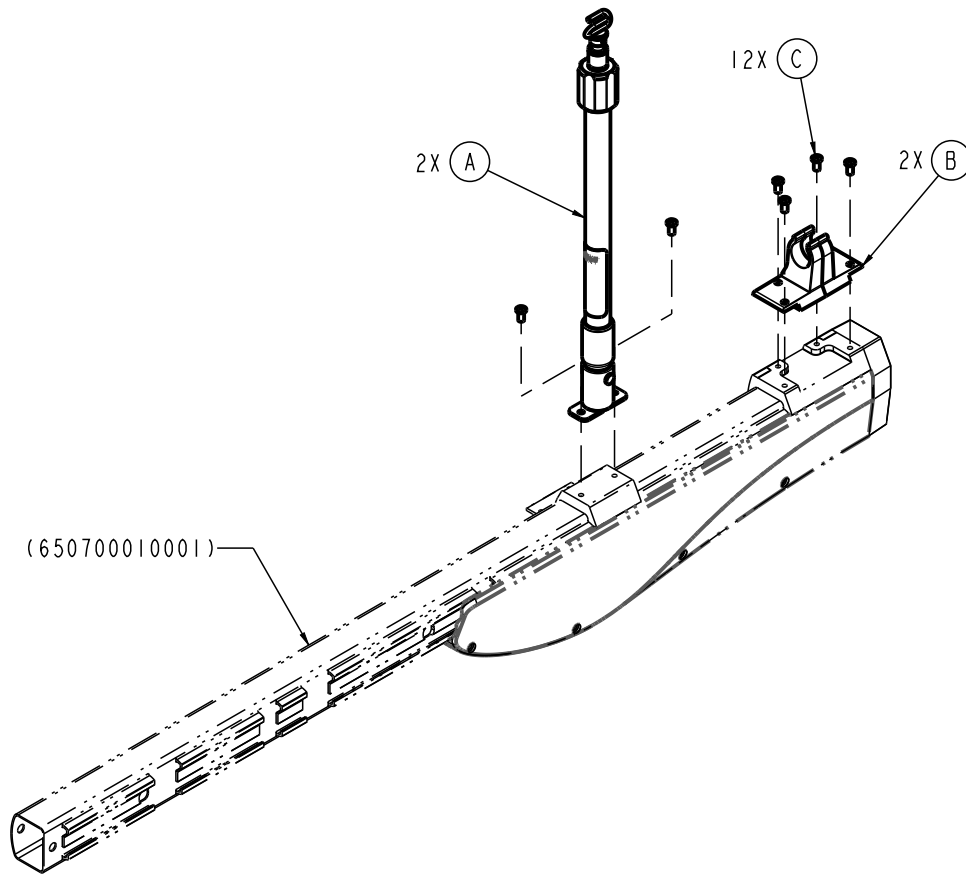
650700350103 Rev AA (Reference only)



| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 650700450033 | HAVASU IV pole assembly, two-stage, right (page 204) | 2        |
| B    | 650700450133 | IV pole clip   | 2        |
| C    | 700000913363 | Button head cap screw                                | 12       |

# IV pole, three-stage, dual

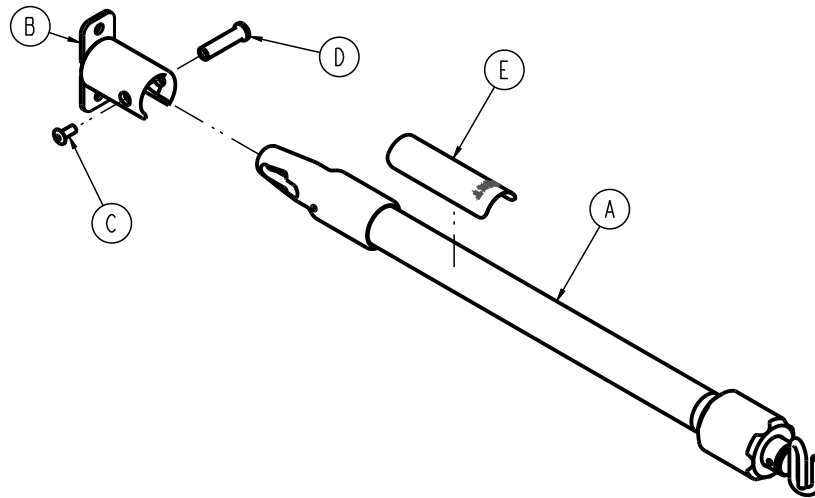
650700350104 Rev AA (Reference only)



| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 650700450034 | HAVASU IV pole assembly, three-stage, 2 right (page 206) | 2        |
| B    | 650700450133 | IV pole clip   | 2        |
| C    | 700000913363 | Button head cap screw                                    | 12       |

# HAVASU™ IV pole assembly, two-stage, left

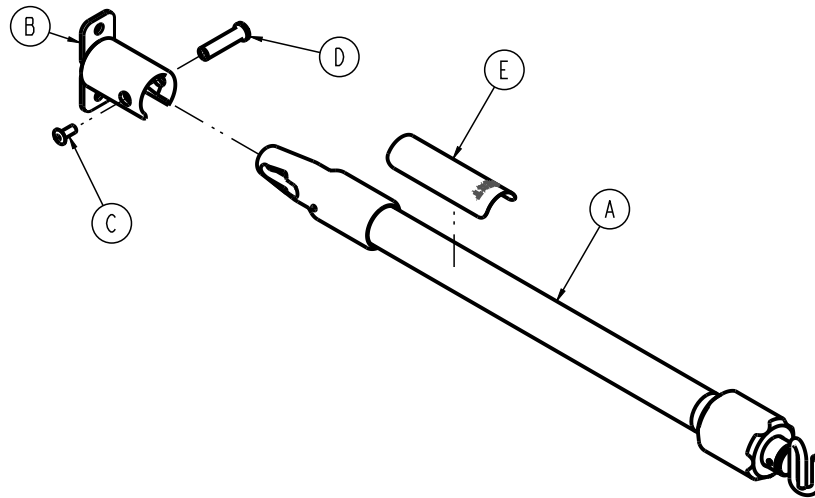
650700450035 Rev AC (Reference only)



| Item | Number       | Name                                   | Quantity |
|------|--------------|--|----------|
| A    | 6070-210-070 | IV pole assembly, two-stage (page 207) | 1        |
| B    | 6100-115-051 | Socket weldment, Euro IV               | 1        |
| C    | 0025-079-000 | Dome head pop rivet                    | 1        |
| D    | 6070-110-037 | IV pivot pin                           | 1        |
| E    | 650700010953 | Label, IV pole, two-stage, left        | 1        |

# HAVASU IV pole assembly, two-stage, right

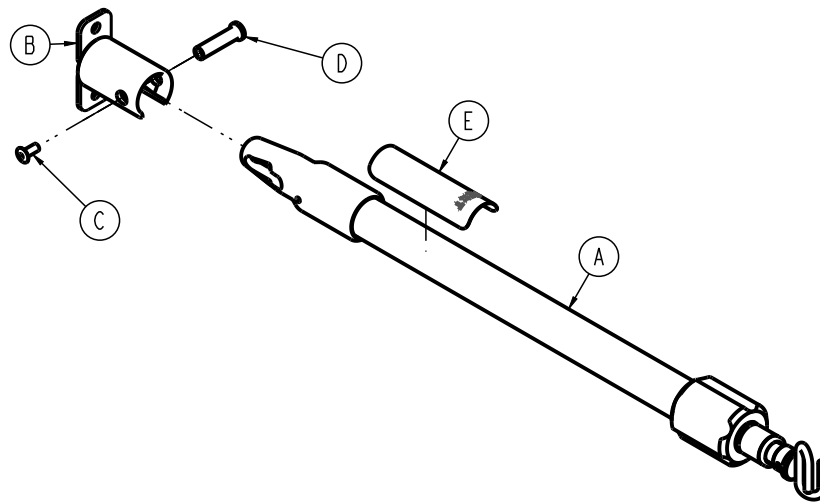
650700450033 Rev AD (Reference only)



| Item | Number       | Name                                   | Quantity |
|------|--------------|--|----------|
| A    | 6070-210-070 | IV pole assembly, two-stage (page 207) | 1        |
| B    | 6100-115-051 | Socket weldment, Euro IV               | 1        |
| C    | 0025-079-000 | Dome head pop rivet                    | 1        |
| D    | 6070-110-037 | IV pivot pin                           | 1        |
| E    | 650700010951 | Label, IV pole, two-stage, right       | 1        |

# HAVASU IV pole assembly, three-stage, left

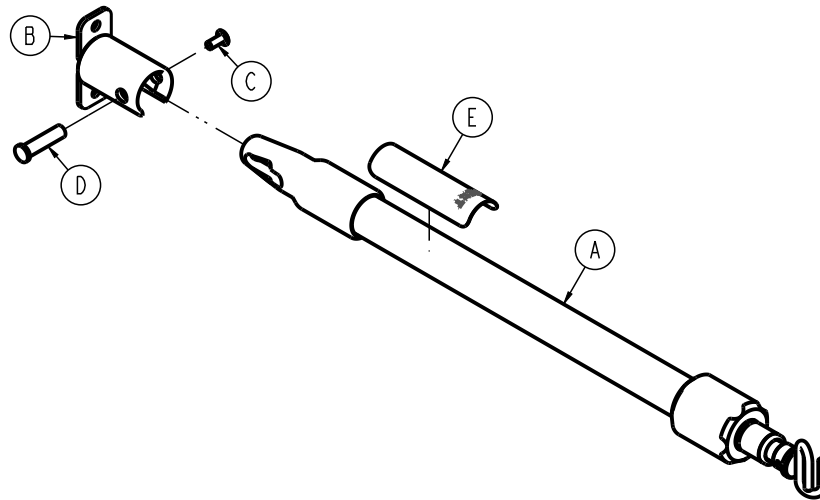
650700450036 Rev AC (Reference only)



| Item | Number       | Name                                     | Quantity |
|------|--------------|--|----------|
| A    | 6070-215-070 | IV pole assembly, three-stage (page 208) | 1        |
| B    | 6100-115-051 | Socket weldment, Euro IV                 | 1        |
| C    | 0025-079-000 | Dome head pop rivet                      | 1        |
| D    | 6070-110-037 | IV pivot pin                             | 1        |
| E    | 650700010954 | Label, IV pole, three-stage, left        | 1        |

# HAVASU IV pole assembly, three-stage, right

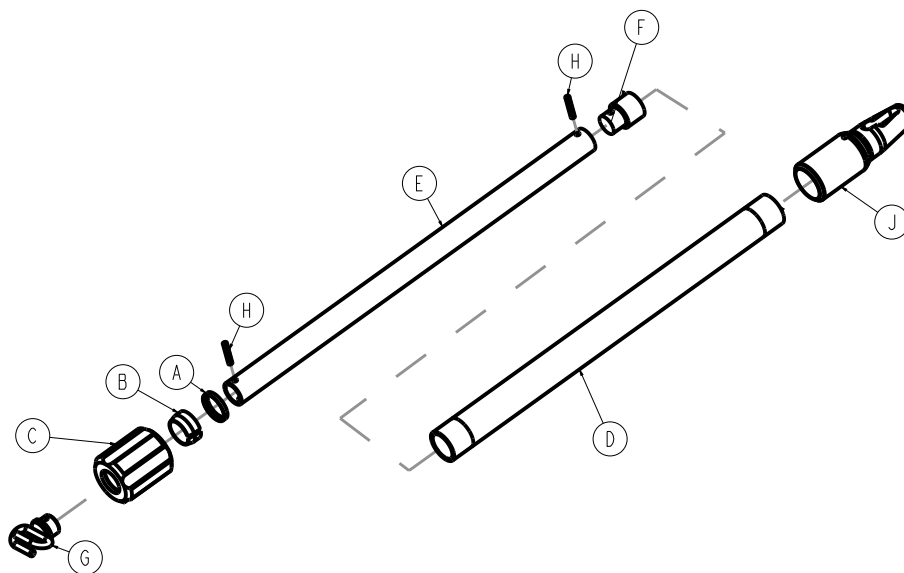
650700450034 Rev AC (Reference only)



| Item | Number       | Name                                     | Quantity |
|------|--------------|--|----------|
| A    | 6070-215-070 | IV pole assembly, three-stage (page 208) | 1        |
| B    | 6100-115-051 | Socket weldment, Euro IV                 | 1        |
| C    | 0025-079-000 | Dome head pop rivet                      | 1        |
| D    | 6070-110-037 | IV pivot pin                             | 1        |
| E    | 650700010952 | Label, IV pole, three-stage, right       | 1        |

# IV pole assembly, two-stage

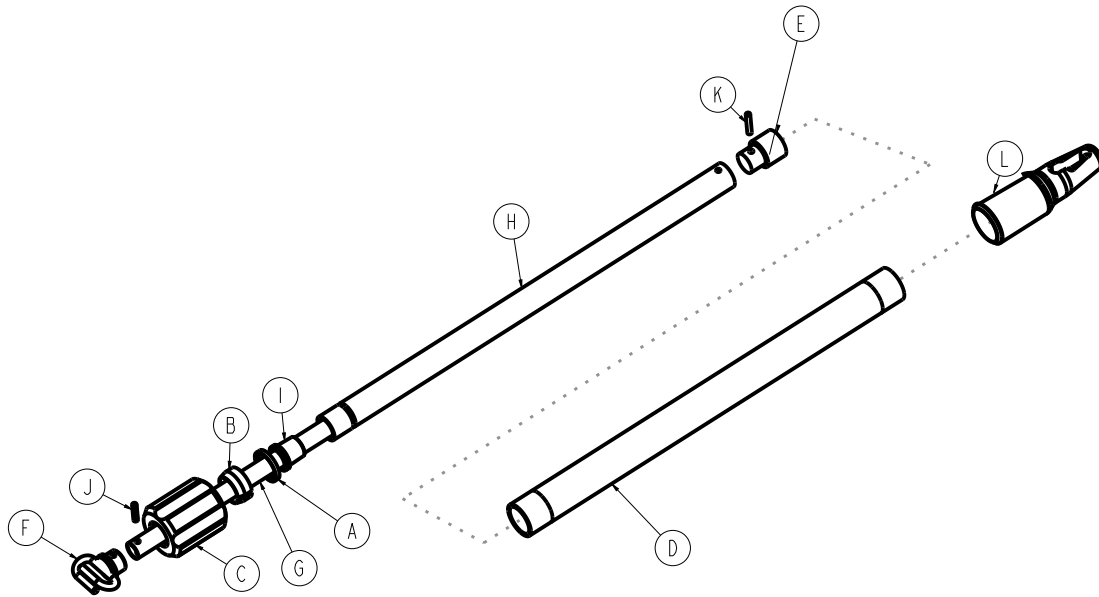
6070-210-070 Rev AA (Reference only)



| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 1210-110-046 | Back-up ring                      | 1        |
| B    | 1210-110-047 | Lock ring                         | 1        |
| C    | 1210-110-049 | IV pole actuator (locking collar) | 1        |
| D    | 6070-210-051 | Base tube, cot IV                 | 1        |
| E    | 6070-110-042 | 2nd stage tube, cot IV            | 1        |
| F    | 6070-110-051 | 2nd stage slide plug              | 1        |
| G    | 6070-110-050 | Hook weldment, cot IV             | 1        |
| H    | 0026-006-000 | Roll pin                          | 1        |
| J    | 6070-110-012 | IV pole pivot                     | 1        |

# IV pole assembly, three-stage

6070-215-070 Rev AA (Reference only)

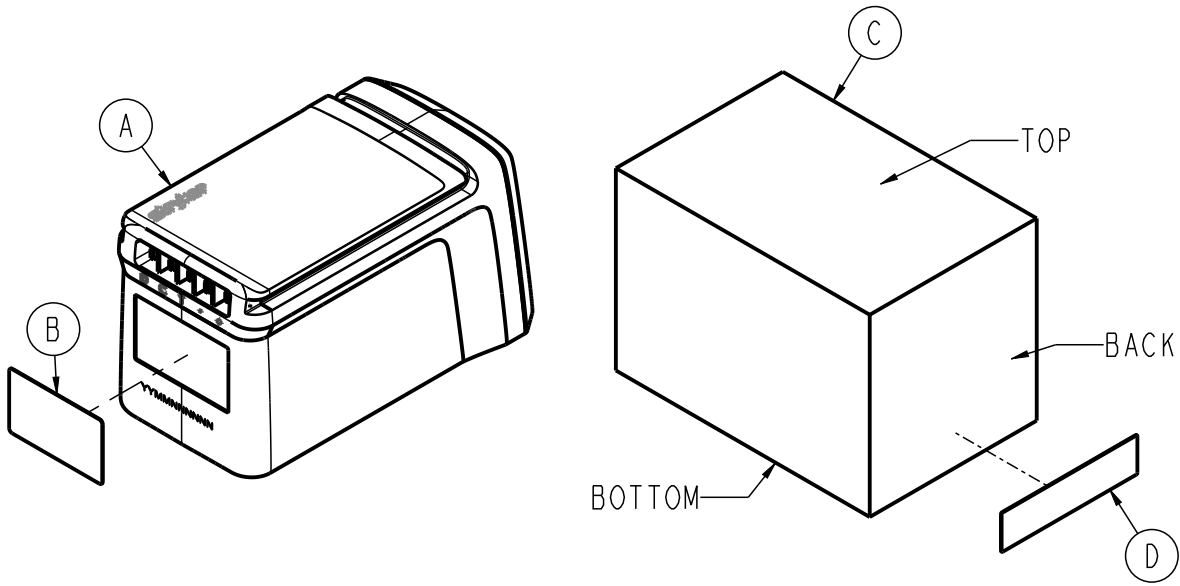


| Item | Number       | Name                              | Quantity |
|------|--------------|-----------------------------------|----------|
| A    | 1210-110-046 | Back-up ring                      | 1        |
| B    | 1210-110-047 | Lock ring                         | 1        |
| C    | 1210-110-049 | IV pole actuator (locking collar) | 1        |
| D    | 6070-210-051 | Base tube, cot IV                 | 1        |
| E    | 6070-110-051 | 2nd stage slide plug              | 1        |
| F    | 6070-110-050 | Hook weldment, cot IV             | 1        |
| G    | 6070-115-030 | 3rd stage assembly, cot IV        | 1        |
| H    | 6070-115-042 | 2nd stage tube, cot IV            | 1        |
| I    | 6070-115-045 | Bearing plug, IV pole             | 1        |
| J    | 0026-005-000 | Roll pin                          | 1        |
| K    | 0026-006-000 | Roll pin                          | 1        |
| L    | 6070-110-012 | IV pole pivot                     | 1        |



# Battery assembly - 650700080301

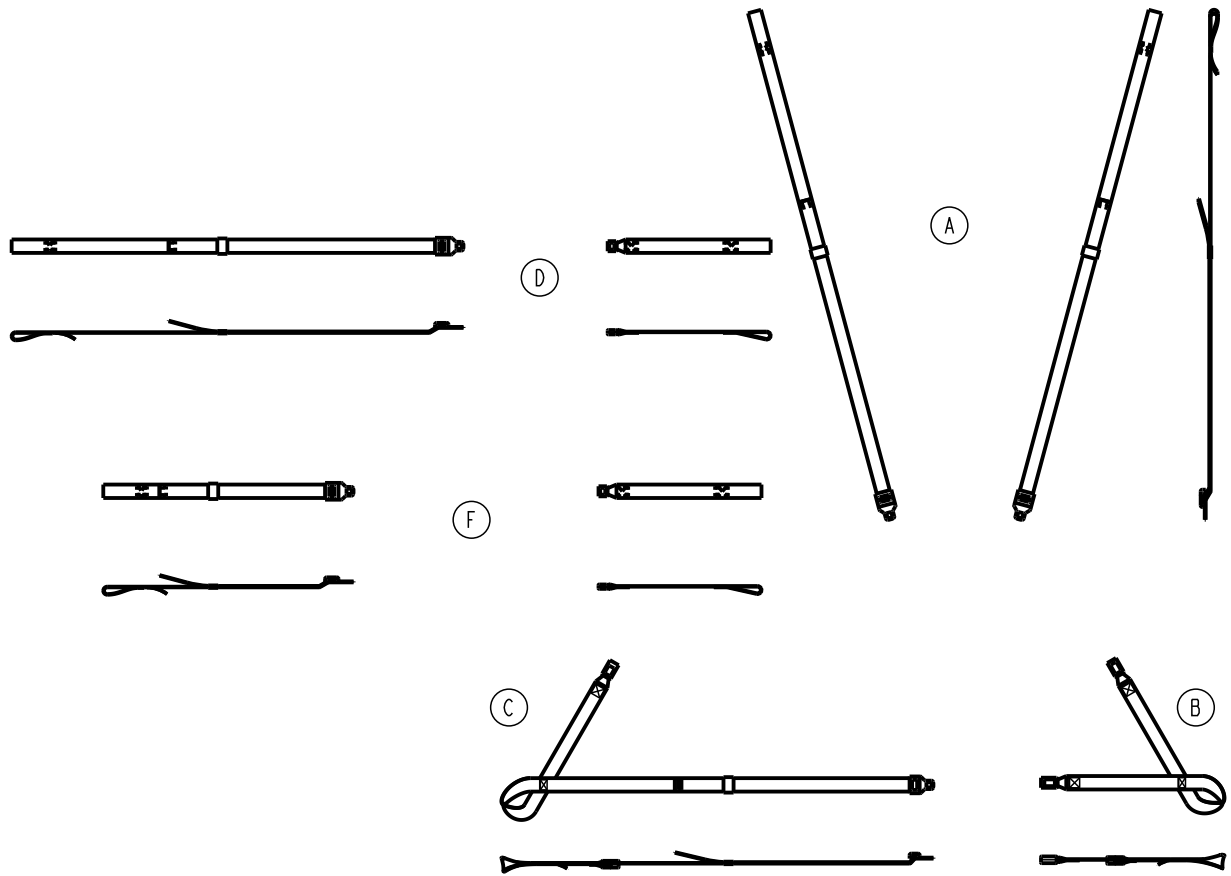
Rev AK (Reference only)



| Item | Number       | Name                               | Quantity |
|------|--------------|------------------------------------|----------|
| A    | 650700080401 | Battery assembly                   | 1        |
| B    | 650700010930 | Label, battery                     | 1        |
| C    | 650700190011 | Packaging, battery, individual box | 1        |
| D    | 650700010940 | Label, GSI barcode, battery        | 1        |

# X-restraint package - 6500-001-430

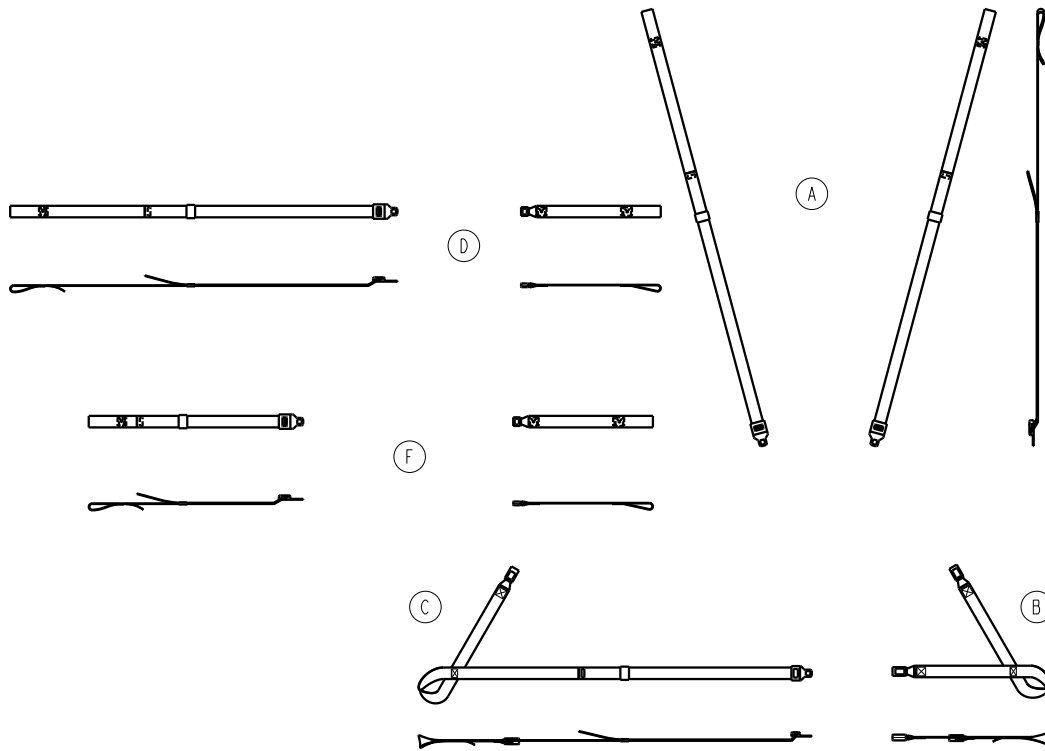
Rev G (Reference only)



| Item | Number       | Name                      | Quantity |
|------|--------------|---------------------------|----------|
| A    | 6500-001-401 | Shoulder restraint        | 2        |
| B    | 6500-001-402 | X-double buckle strap     | 1        |
| C    | 6500-001-403 | X-buckle and tongue strap | 1        |
| D    | 6500-001-404 | Thigh restraint           | 1        |
| F    | 6500-001-405 | Ankle restraint           | 1        |

# X-restraint package, cobalt blue - 6500-001-431

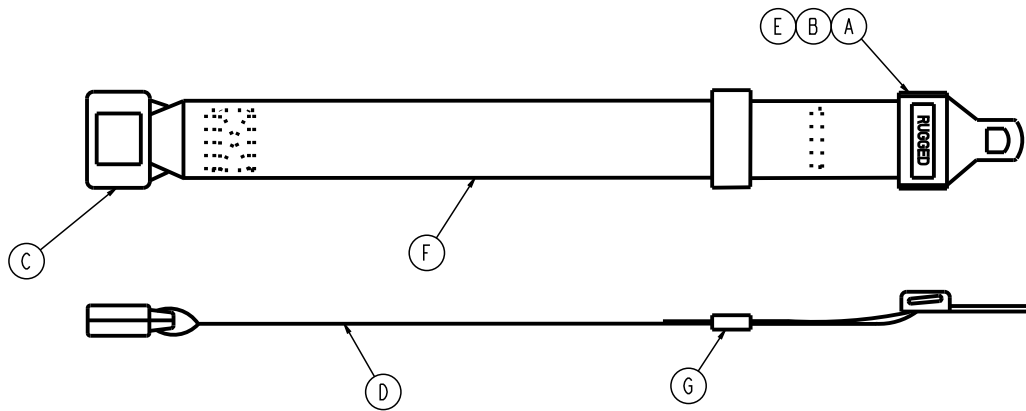
Rev B (Reference only)



| Item | Number       | Name                                   | Quantity |
|------|--------------|--|----------|
| A    | 6500-001-411 | Shoulder restraint, cobalt blue        | 2        |
| B    | 6500-001-412 | X-double buckle strap, cobalt blue     | 1        |
| C    | 6500-001-413 | X-buckle and tongue strap, cobalt blue | 1        |
| D    | 6500-001-414 | Thigh restraint, cobalt blue           | 1        |
| F    | 6500-001-415 | Ankle restraint, cobalt blue           | 1        |

# Belt extension option - 6082-160-050

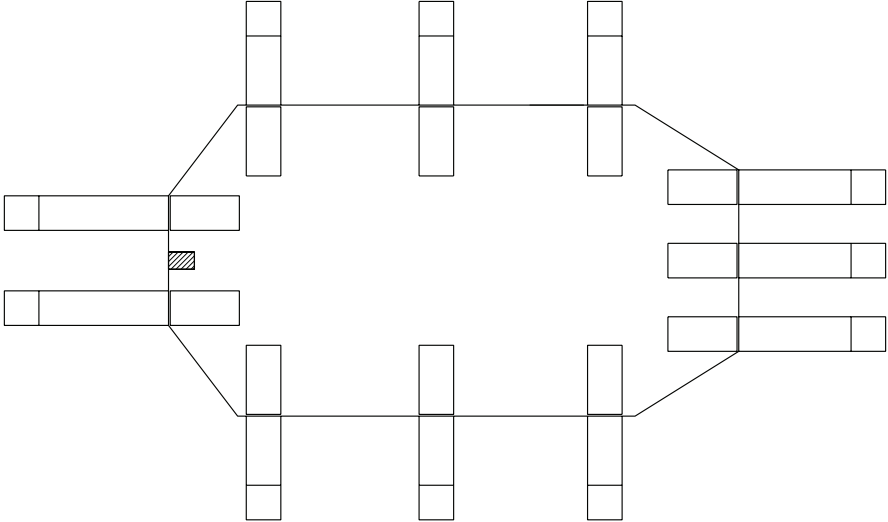
Rev C (Reference only)



| Item | Number       | Name                          | Quantity |
|------|--------------|-------------------------------|----------|
| A    |              | Tongue (Intertek p/n 2122681) |          |
| B    |              | Cap (Intertek p/n 2122525)    |          |
| C    |              | Buckle (Intertek p/n 2122682) |          |
| D    | 6082-090-001 | Label, belt extension         | 1        |
| E    | 6060-090-011 | Label, <b>RUGGED</b>          | 1        |
| F    |              | Belt, 2" wide, black          |          |
| G    |              | Belt retainer                 |          |

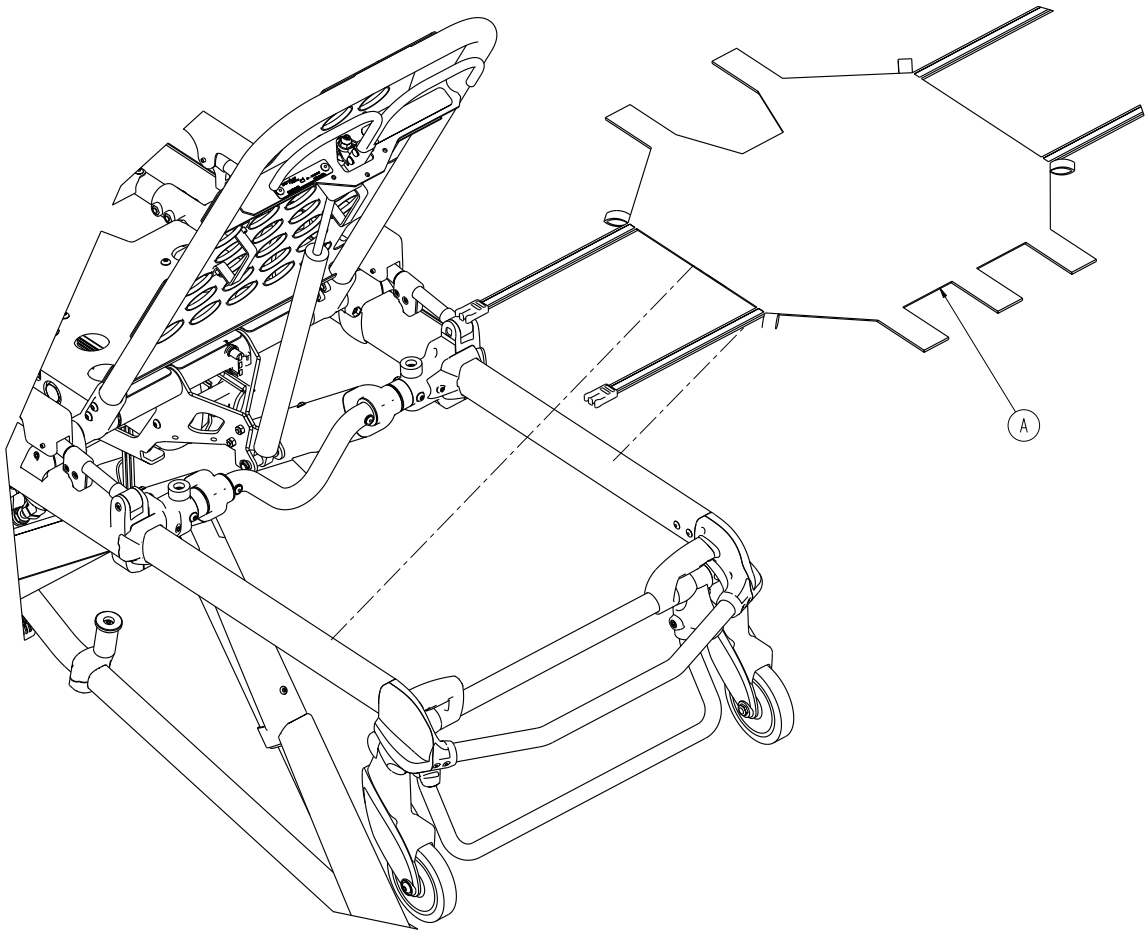
# Storage net, base - 6500-160-000

6500-001-126 Rev AB (Reference only)



# Storage flat, head end - 6500-128-000

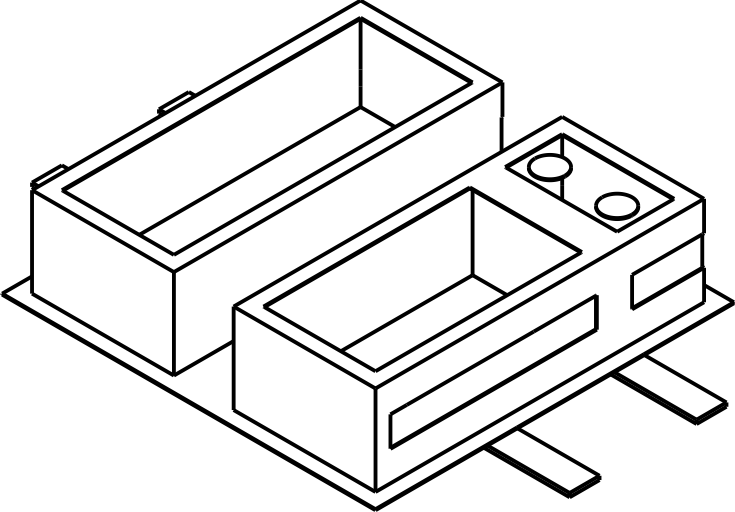
Rev A (Reference only)



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

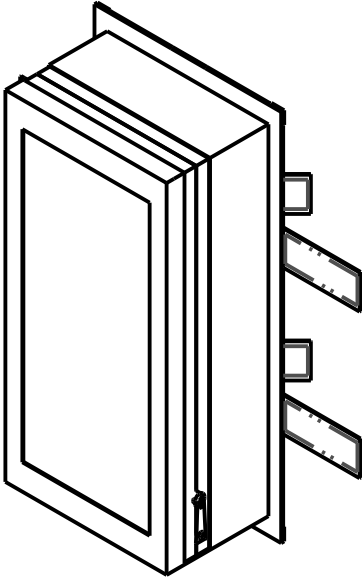
# Storage pouch, backrest, dual-sided - 650700450134

Rev AC (Reference only)



# Storage pouch, backrest, single-sided - 650700450142

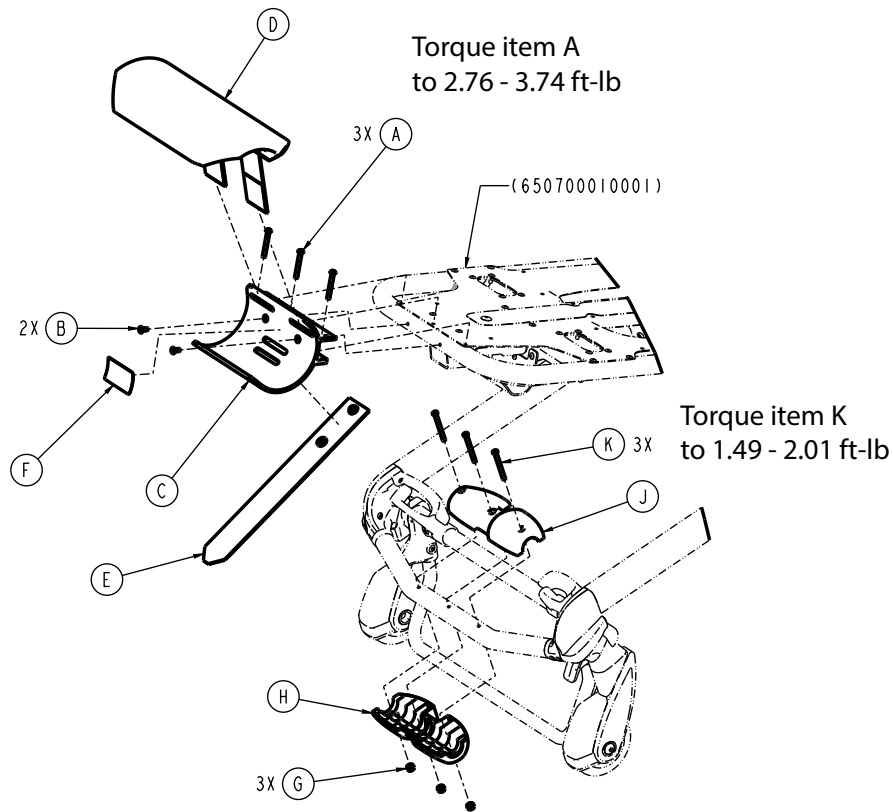
Rev AB (Reference only)





# Oxygen bottle holder, Fowler - 650700450153

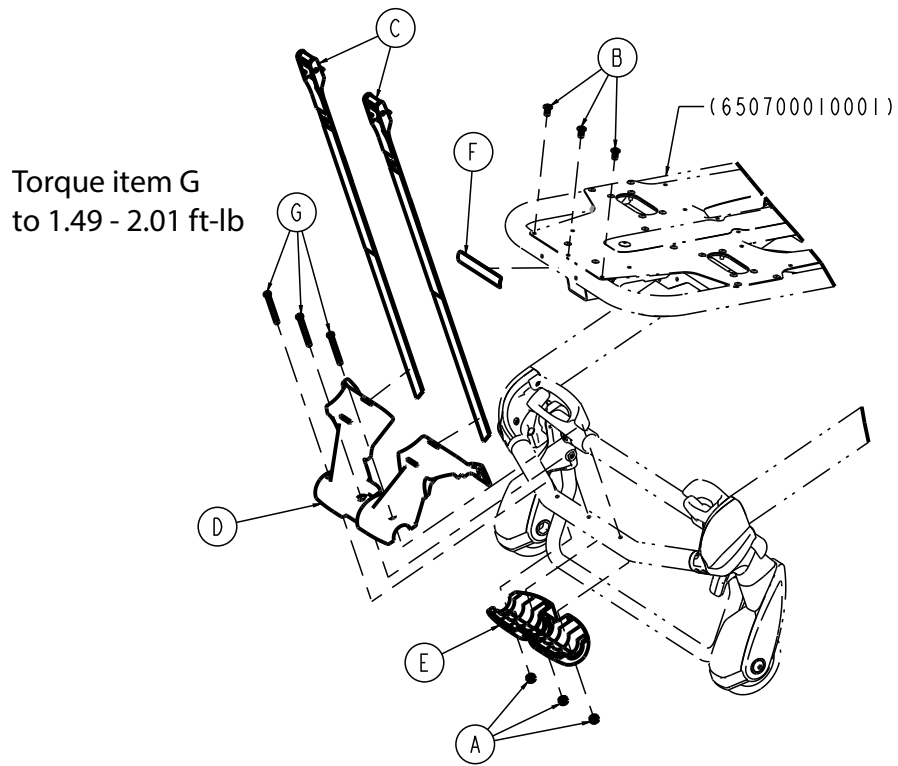
Rev AC (Reference only)



| Item | Number       | Name                               | Quantity |
|------|--------------|------------------------------------|----------|
| A    | 0004-636-000 | Button head cap screw              | 3        |
| B    | 0025-079-000 | Dome head pop rivet                | 2        |
| C    | 6500-011-119 | Bracket, oxygen holder, backrest   | 1        |
| D    | 6500-001-260 | Fowler oxygen bottle holder cover  | 1        |
| E    | 6500-001-261 | Fowler oxygen bottle holder strap  | 1        |
| F    | 6500-101-231 | Label, Fowler oxygen bottle holder | 1        |
| G    | 0016-002-000 | Fiberlock nut                      | 3        |
| H    | 6085-001-174 | Oxygen bottle holder, bottom       | 1        |
| J    | 6500-002-156 | Guide, head end, top               | 1        |
| K    | 700000721220 | Socket head cap screw              | 3        |

# Oxygen bottle holder, head section - 650700450154

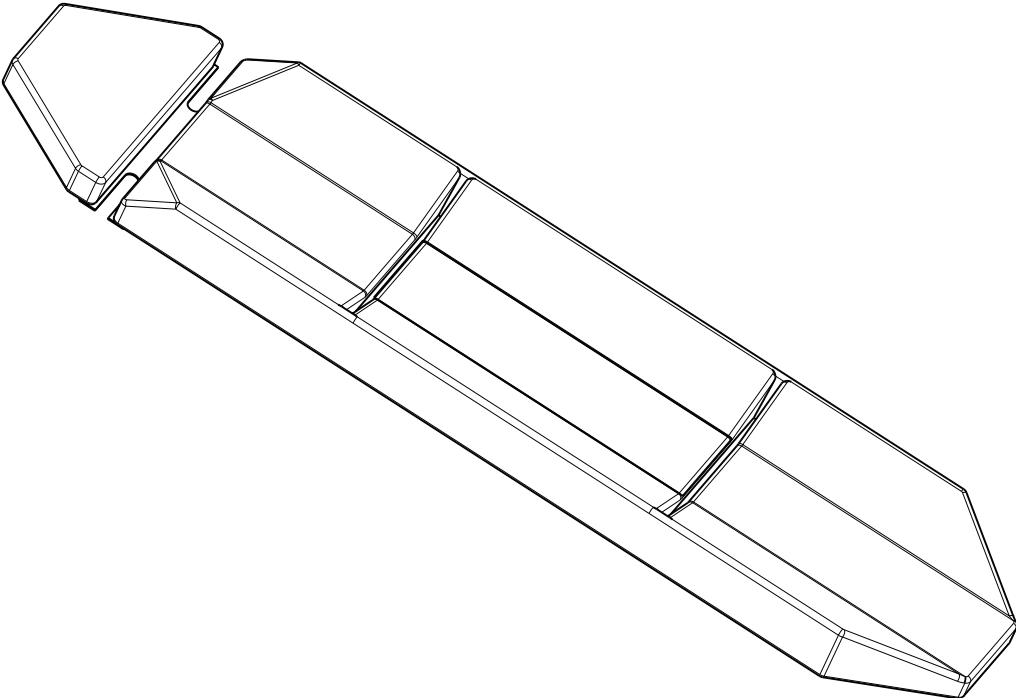
Rev AB (Reference only)



| Item | Number       | Name                         | Quantity |
|------|--------------|------------------------------|----------|
| A    | 0016-002-000 | Fiberlock nut                | 3        |
| B    | 0025-079-000 | Dome head pop rivet          | 3        |
| C    | 6085-001-171 | Strap, head end              | 2        |
| D    | 6085-001-173 | Oxygen bottle holder, top    | 1        |
| E    | 6085-001-174 | Oxygen bottle holder, bottom | 1        |
| F    | 650700010904 | Label, <b>Power-PRO 2</b>    | 1        |
| G    | 700000721220 | Socket head cap screw        | 3        |

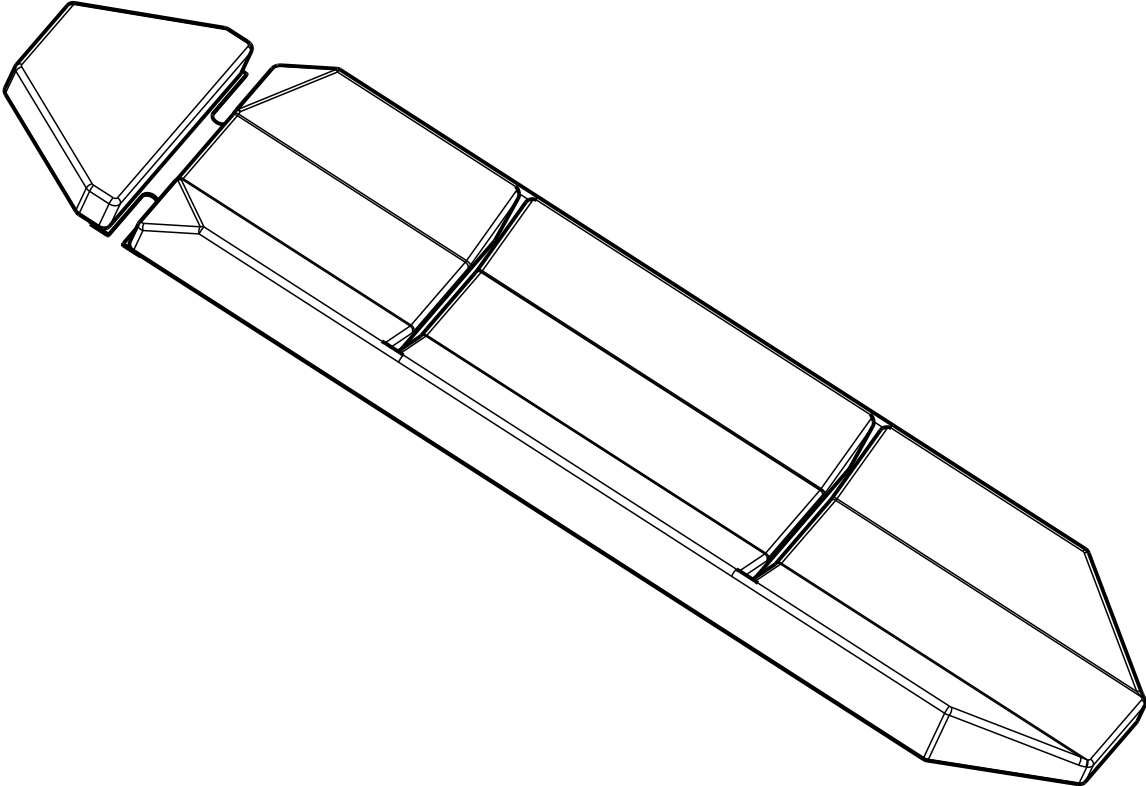
# Mattress, knee Gatch bolster - 6506-034-000

6500-002-150 Rev AB (Reference only)



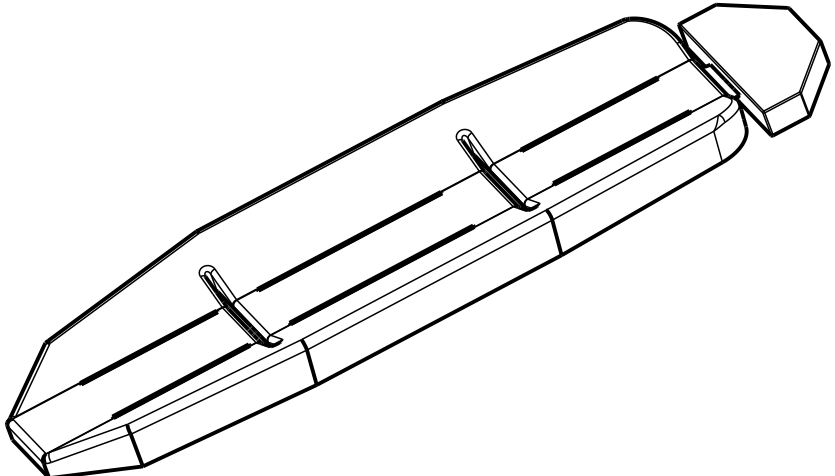
# Mattress, knee Gatch bolster, grey - 6506-033-000

6506-002-150 Rev AB (Reference only)



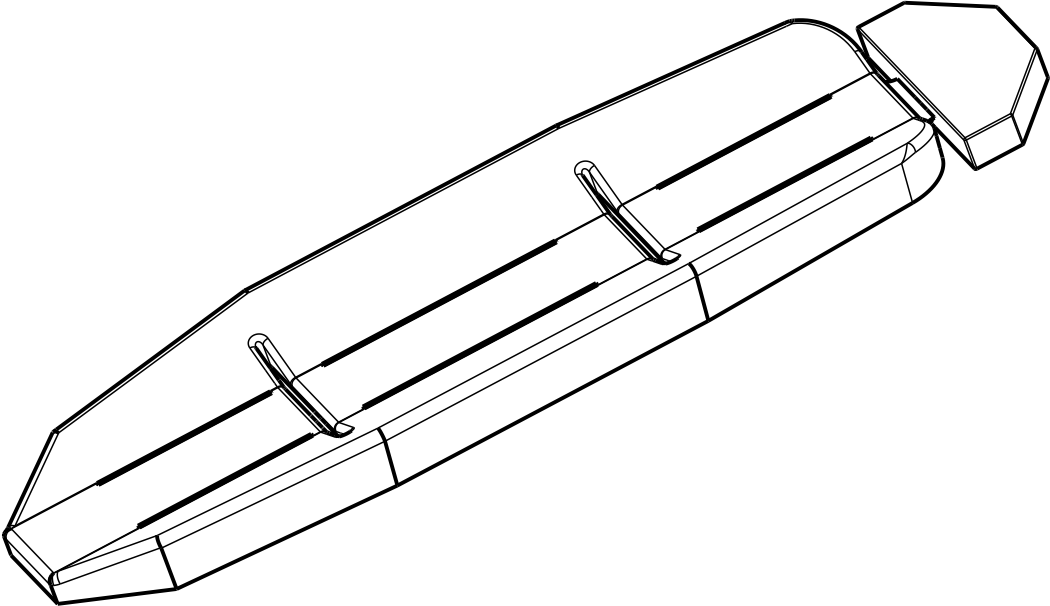
# Mattress, knee Gatch bolster, XPS - 6500-003-130

Rev AB (Reference only)



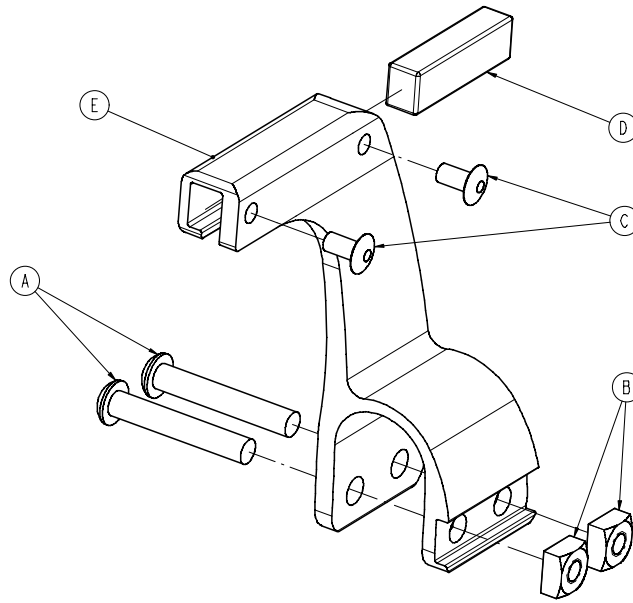
# Mattress, knee Gatch bolster, grey, XPS - 6506-041-000

6506-003-130 Rev AB (Reference only)



# In-fastener shut-off assembly option - 6500-001-027

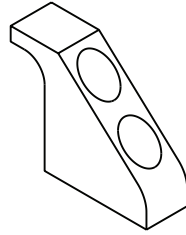
Rev C (Reference only)



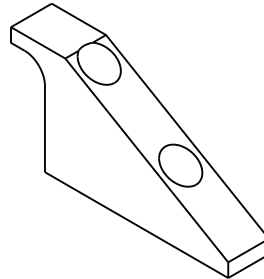
| Item | Number       | Name                            | Quantity |
|------|--------------|---------------------------------|----------|
| A    | 0004-376-000 | Button head cap screw           | 2        |
| B    | 0015-016-000 | Square nut                      | 2        |
| C    | 0025-079-000 | Dome head rivet                 | 2        |
| D    | 6500-001-271 | Ambulance shut-off magnet       | 1        |
| E    | 6500-001-272 | Fastener shut-off magnet holder | 1        |

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

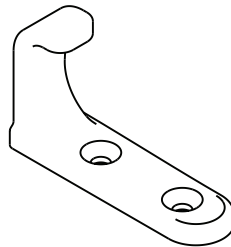
Safety hook, short - 6060-036-017 Rev A (Reference only)



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



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





# MTS - Power-PRO 2 assembly, high config - 650705550001

Rev AC (Reference only)

| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 6500-001-232 | <i>Storage flat, head end - 6500-128-000</i><br>(page 214)                     | 1        |
| B    | 6500-003-130 | <i>Mattress, knee Gatch bolster, XPS -</i><br><i>6500-003-130</i> (page 221)   | 1        |
| D    | 650700010001 | <i>Cot assembly, common components</i><br>(page 98)                            | 1        |
| E    | 650700010880 | Wi-Fi setting, US  | 1        |
| F    | 650700010927 | Label, serial number, 001  | 1        |
| G    | 650700080029 | <i>Birdcage assembly, NFMIC, Wi-Fi</i> (page 1<br>157)                         | 1        |
| H    | 650700190212 | Packaging assembly, boxed  | 1        |
| J    | 650700350102 | <i>IV pole, three-stage, right -</i><br><i>650700350102</i> (page 198)         | 1        |
| K    | 650700450134 | <i>Storage pouch, backrest, dual-sided -</i><br><i>650700450134</i> (page 215) | 1        |
| L    | 650700450154 | <i>Oxygen bottle holder, head section -</i><br><i>650700450154</i> (page 218)  | 1        |
| M    | 650709990101 | <i>XPS siderail option - 650709990101</i><br>(page 182)                        | 1        |
| N    | 650709990106 | <i>Power-LOAD and Performance-LOAD</i><br><i>fastener</i> (page 110)           | 1        |
| P    | 650709990110 | <i>Four wheel lock option - 650709990110</i><br>(page 118)                     | 1        |
| R    | 650700020959 | Assembly, labels, Wi-Fi - NFMIC, US<br>setting                                 | 1        |
| T    | 6500-001-430 | X-restraint package  | 1        |

# MTS - Power-PRO 2 assembly, mid config - 650705550002

Rev AC (Reference only)

| Item | Number       | Name   | Quantity |
|------|--------------|--|----------|
| A    | 6500-001-232 | <i>Storage flat, head end - 6500-128-000</i><br>(page 214)             | 1        |
| B    | 6500-002-150 | <i>Mattress, knee Gatch bolster - 6506-034-000</i><br>(page 219)       | 1        |
| D    | 650700010001 | <i>Cot assembly, common components</i><br>(page 98)                    | 1        |
| E    | 650700010880 | Wi-Fi setting, US  | 1        |
| F    | 650700010928 | Label, serial number, 002  | 1        |
| G    | 650700080029 | <i>Birdcage assembly, NFMIC, Wi-Fi</i> (page 157)                      | 1        |
| H    | 650700190212 | Packaging assembly, boxed  | 1        |
| J    | 650700350102 | <i>IV pole, three-stage, right - 650700350102</i><br>(page 198)        | 1        |
| K    | 650700450154 | <i>Oxygen bottle holder, head section - 650700450154</i><br>(page 218) | 1        |
| L    | 650709990102 | <i>Standard siderail option - 650709990102</i><br>(page 181)           | 1        |
| M    | 650709990106 | <i>Power-LOAD and Performance-LOAD fastener</i><br>(page 110)          | 1        |
| N    | 650709990109 | <i>Two wheel lock option - 650709990109</i><br>(page 117)              | 1        |
| P    | 650700020959 | Assembly, labels, Wi-Fi - NFMIC, US setting                            | 1        |
| R    | 6500-001-430 | X-restraint package  | 1        |

# MTS - Power-PRO 2 assembly, high config, no Wi-Fi - 650705550003

Rev AB (Reference only)

| Item | Number       | Name  | Quantity |
|------|--------------|---|----------|
| A    | 6500-001-232 | <i>Storage flat, head end - 6500-128-000</i><br>(page 214)              | 1        |
| B    | 6500-003-130 | <i>Mattress, knee Gatch bolster, XPS - 6500-003-130</i><br>(page 221)   | 1        |
| D    | 650700010001 | <i>Cot assembly, common components</i><br>(page 98)                     | 1        |
| E    | 650700010929 | Label, serial number, 003   | 1        |
| F    | 650700020961 | Assembly, labels, NFMIC, US setting                                     | 1        |
| G    | 650700080028 | <i>Birdcage assembly, NFMIC, no Wi-Fi</i><br>(page 154)                 | 1        |
| H    | 650700190212 | Packaging assembly, boxed   | 1        |
| J    | 650700350102 | <i>IV pole, three-stage, right - 650700350102</i><br>(page 198)         | 1        |
| K    | 650700450134 | <i>Storage pouch, backrest, dual-sided - 650700450134</i><br>(page 215) | 1        |
| L    | 650700450154 | <i>Oxygen bottle holder, head section - 650700450154</i><br>(page 218)  | 1        |
| M    | 650709990101 | <i>XPS siderail option - 650709990101</i><br>(page 182)                 | 1        |
| N    | 650709990106 | <i>Power-LOAD and Performance-LOAD fastener</i><br>(page 110)           | 1        |
| P    | 650709990110 | <i>Four wheel lock option - 650709990110</i><br>(page 118)              | 1        |
| R    | 6500-001-430 | X-restraint package   | 1        |

# EMC information

## WARNING

- Portable RF communications equipment, including peripherals such as antenna cables and external antennas, should be used no closer than 12 inches (30 cm) to any part of **Power-PRO 2**, including cables specified by the manufacturer.
- Avoid stacking or placing other equipment adjacent to **Power-PRO 2** to prevent improper operation of the products. If such use is necessary, carefully observe the cot and the other equipment to verify proper operation.
- The use of accessories, transducers, and cables, other than those specified or provided by the manufacturer, could result in increased electromagnetic emissions or decreased electromagnetic immunity and result in improper operation.


| Guidance and manufacturer's declaration - electromagnetic emissions  |            |  |
|--|------------|--|
| Emissions test   | Compliance | Electromagnetic environment  |
| <b>Power-PRO 2</b> is intended for use in the electromagnetic environment specified below. The customer or the user of <b>Power-PRO 2</b> should assure that they are used in such an environment. |            |  |
| RF emissions<br>CISPR 11   | Group 2    | <b>Power-PRO 2</b> with the <b>Power-LOAD</b> compatibility option must emit electromagnetic energy in order to perform its intended function. Nearby electronic equipment may be affected.  |
| RF emissions<br>CISPR 11   | Group 1    | The emissions characteristics of this equipment make it suitable for use in professional healthcare facilities, emergency medical services, and home healthcare environments. If it is used in other environments, this equipment might not offer adequate protection to radio-frequency communication services and power supply networks. The user might need to take mitigation measures, such as relocating or reorienting the equipment. |
| RF emissions<br>CISPR 11   | Class B    |  |

| Recommended separation distances between portable and mobile RF communications equipment and <b>Power-PRO 2</b>  |                     |                   |                                 |
|--|---------------------|-------------------|---------------------------------|
| Band (MHz)   | Service             | Maximum power (W) | Minimum separation distance (m) |
| <b>Power-PRO 2</b> is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of <b>Power-PRO 2</b> can help prevent electromagnetic interferences by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters), <b>Power-PRO 2</b> , and cables, as recommended below, according to the maximum output power of the communications equipment. |                     |                   |                                 |
| 380-390  | TETRA 400           | 1.8               | 0.3                             |
| 430-470  | GMRS 460<br>FRS 460 | 2.0               | 0.3                             |
| 704-787  | LTE band 13, 17     | 0.2               | 0.3                             |

| Recommended separation distances between portable and mobile RF communications equipment and Power-PRO 2   |   |                   |                                 |
|--|---|-------------------|---------------------------------|
| Band (MHz)   | Service   | Maximum power (W) | Minimum separation distance (m) |
| 800-960  | GSM 800/900<br>TETRA 800<br>iDEN 820<br>CDMA 850<br>LTE band 5            | 2.0               | 0.3                             |
| 1,700-1,990  | GSM 1800<br>CDMA 1900<br>GSM 1900<br>DECT<br>LTE band 1, 3, 4, 25<br>UMTS | 2.0               | 0.3                             |
| 2,400-2,570  | Bluetooth<br>WLAN<br>802.11 b/g/n<br>RFID 2450<br>LTE band 7              | 2.0               | 0.3                             |
| 5,100-5,800  | WLAN<br>802.11 a/n  | 0.2               | 0.3                             |
| <p>For transmitters rated at a maximum output power not listed above, the recommended separation distance <math>d</math> in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p><b>Note:</b> These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.</p> |   |                   |                                 |

| Guidance and manufacturer's declaration - electromagnetic immunity  |                      |                  |                                      |
|---|----------------------|------------------|--------------------------------------|
| <p><b>Power-PRO 2</b> is suitable for use in a professional healthcare facility, home, and EMS environments. <b>Power-PRO 2</b> is not suitable for use in environments exceeding immunity test conditions that the product was evaluated to, such as near high frequency (HF) surgical equipment and inside of the radio frequency (RF) shielded room of magnetic resonance imaging (MRI) equipment. The customer or the user of <b>Power-PRO 2</b> should assure that it is used in such an environment and that the electromagnetic environment guidance listed below is followed.</p> |                      |                  |                                      |
| Immunity test   | IEC 60601 test level | Compliance level | Electromagnetic environment-guidance |

**Guidance and manufacturer's declaration - electromagnetic immunity**

|   |  |  |   |
|---|--|--|---|
| <p align="center">Electrostatic discharge (ESD)<br/>IEC 61000-4-2</p>             | <p align="center">±8 kV contact<br/>±15 kV air</p> | <p align="center">±8 kV contact<br/>±15 kV air</p> | <p>Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.</p>  |
| <p align="center">Power frequency (50/60 Hz) magnetic field<br/>IEC 61000-4-8</p> | <p align="center">30 A/m</p>                       | <p align="center">30 A/m</p>                       | <p>Power frequency magnetic fields should be at levels characteristic of a typical location in a typical commercial or hospital environment.</p>  |
| <p align="center">Radiated RF<br/>IEC 61000-4-3</p>                               | <p align="center">10 V/m<br/>80 MHz to 2.7 GHz</p> | <p align="center">10 V/m</p>                       | <p>Portable and mobile RF communications equipment should follow the guidance in the table titled Recommended separation distances between portable and mobile RF communication equipment and <b>Power-PRO 2</b>. If the mobile service is not listed in the table, the recommended separation distance should be calculated from the equation appropriate for the frequency of the transmitter.</p> <p>Recommended separation distance:</p> $D=(0.6) (\sqrt{P})$ <p>where <math>P</math> is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and <math>d</math> is the recommended separation distance in meters (m).</p> <p>Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey<sup>a</sup> should be less than the compliance level in each frequency range.<sup>b</sup></p> <p>Interference may occur in the vicinity of equipment marked with the following symbol:</p>  |

## Guidance and manufacturer's declaration - electromagnetic immunity

**Note** - These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

<sup>a</sup> Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which **Power-PRO 2** is used exceeds the applicable RF compliance level above, the **Power-PRO 2** 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 2**.

<sup>b</sup> Over the frequency range 150 kHz to 80 MHz, field strengths are less than 10 V/m.

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**CAUTION** - Changes or modifications to the **Alvarium** Battery Management System, not expressly approved by Stryker, could void the user's authority to operate the equipment.

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**For United States only:**

**Alvarium Battery Management System: Model 650700080301 (battery) and Model 650700450301 (charger)**

**Note** - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

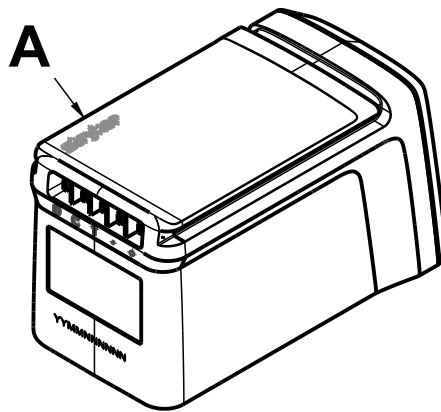
- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio or TV technician for help



# Recycling passport

650700080301

Rev AK



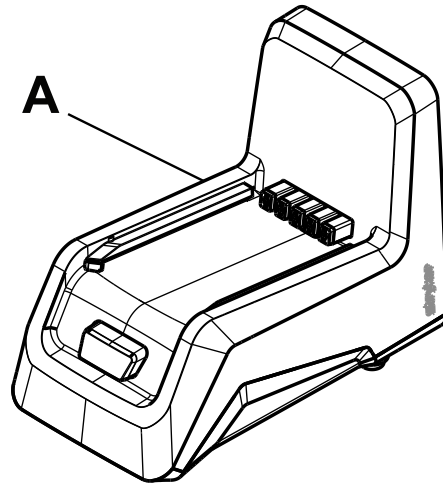
| Item | Recyclable part number | Material code                  | Important information | Quantity |
|------|------------------------|--------------------------------|-----------------------|----------|
| A    | 650700080401           | Battery (LiFePO <sub>4</sub> ) |                       | 1        |



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

# 650700450301

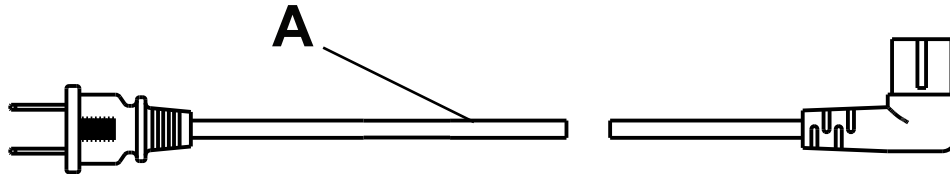
Rev AH



| Item | Recyclable part number | Material code                  | Important information | Quantity |
|------|------------------------|--------------------------------|-----------------------|----------|
| A    | 650700450401           | Battery (LiFePO <sub>4</sub> ) |                       | 1        |

# 650700450102

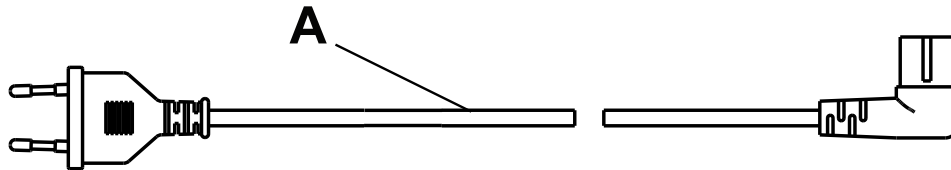
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450002           | External electrical cable |                       | 1        |

# 650700450103

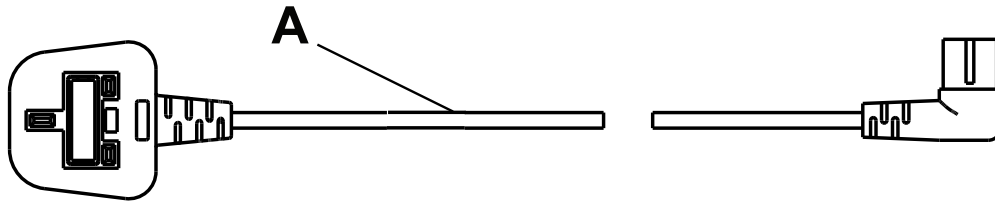
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450003           | External electrical cable |                       | 1        |

# 650700450104

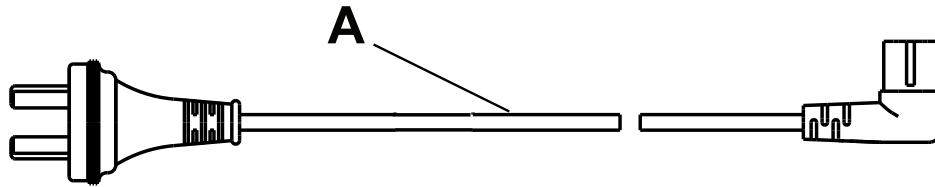
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450004           | External electrical cable |                       | 1        |

# 650700450105

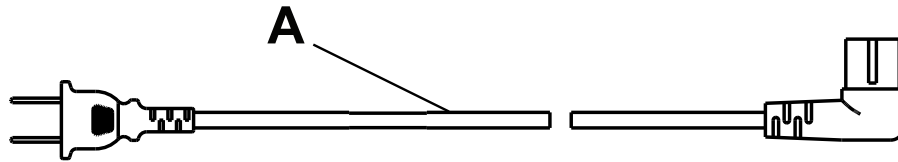
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450005           | External electrical cable |                       | 1        |

# 650700450106

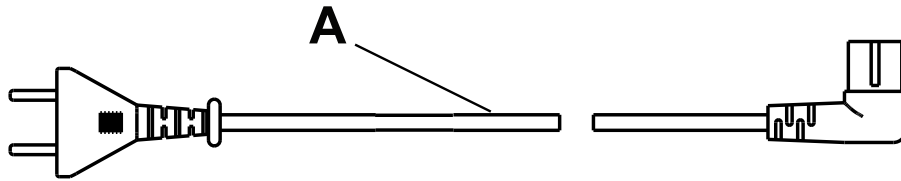
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450006           | External electrical cable |                       | 1        |

# 650700450107

Rev AC

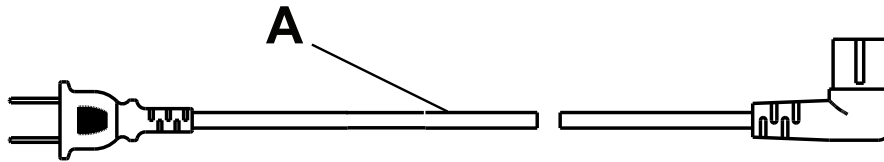


| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450007           | External electrical cable |                       | 1        |



# 650700450108

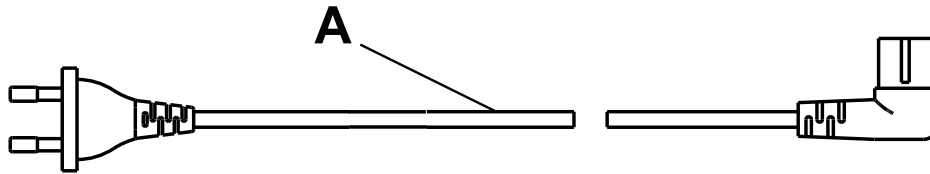
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450008           | External electrical cable |                       | 1        |

# 650700450109

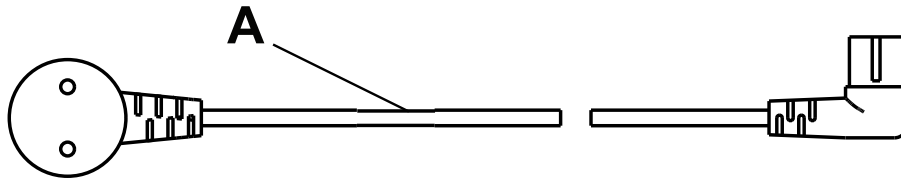
Rev AA



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450009           | External electrical cable |                       | 1        |

# 650700450210

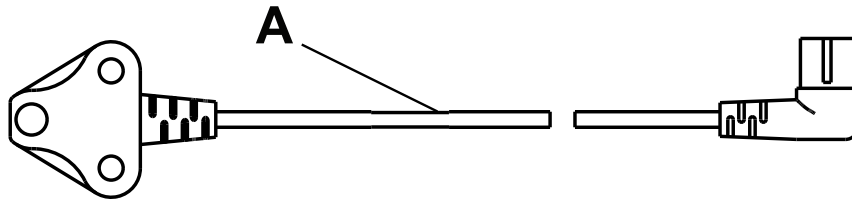
Rev AA



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450010           | External electrical cable |                       | 1        |

# 650700450211

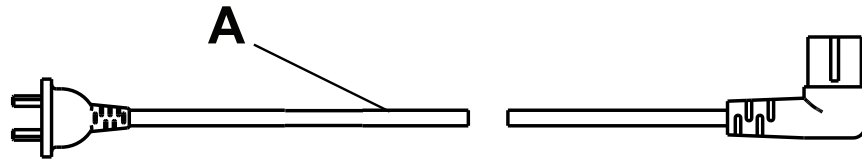
Rev AA



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450011           | External electrical cable |                       | 1        |

# 650700450212

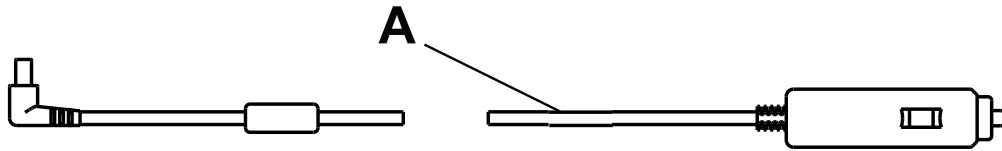
Rev AA



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700450012           | External electrical cable |                       | 1        |

# 650700450101

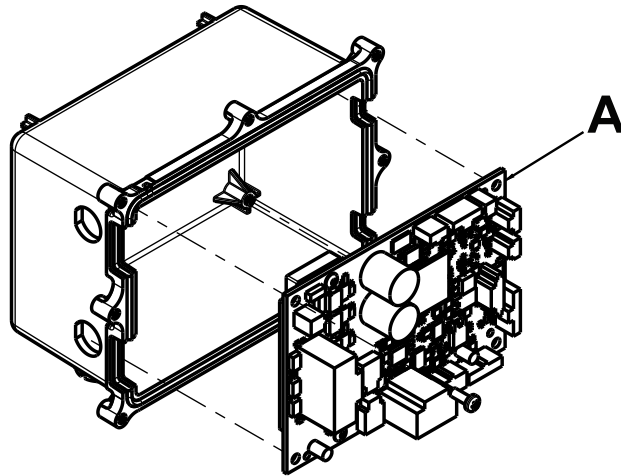
Rev AA



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 6500-201-147           | External electrical cable |                       | 1        |

# 650700080806

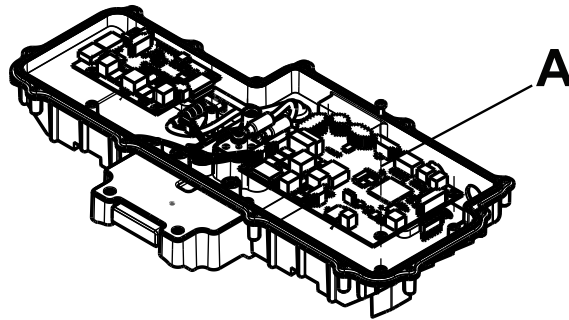
Rev AD



| Item | Recyclable part number | Material code         | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A    | 650700080806           | Printed circuit board |                       | 1        |

# 650700080009

Rev AG

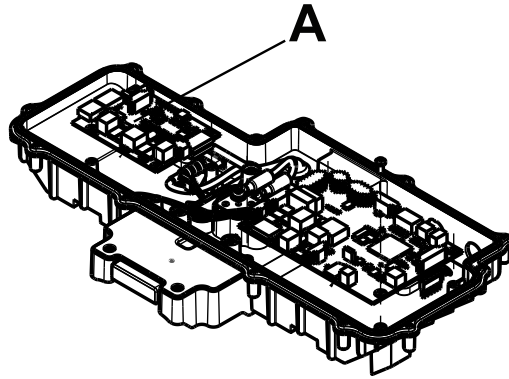


| Item | Recyclable part number | Material code         | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A    | 650700080816           | Printed circuit board |                       | 1        |



# 650700080009

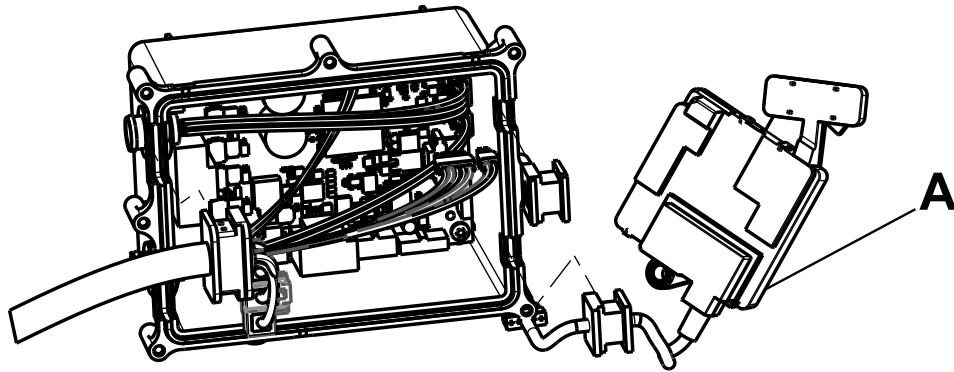
Rev AG



| Item | Recyclable part number | Material code         | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A    | 650700080826           | Printed circuit board |                       | 1        |

# 650700080202

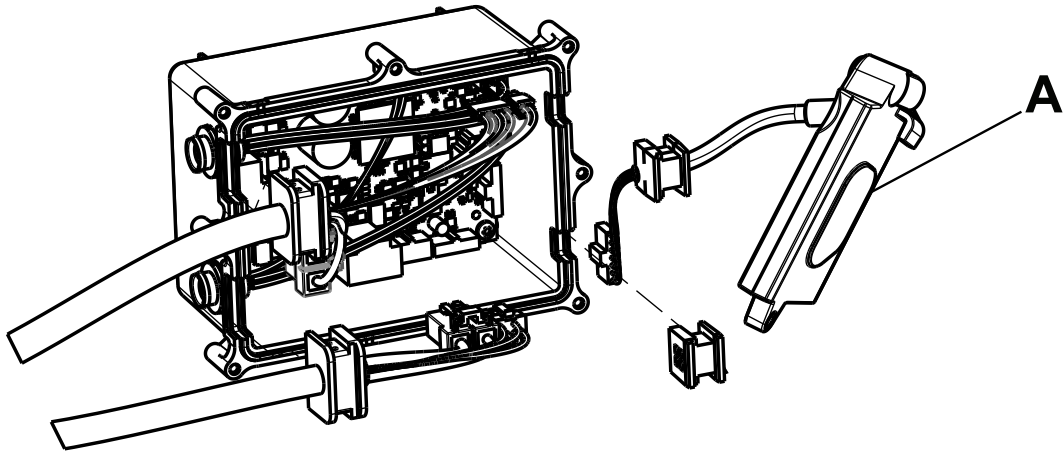
Rev AG



| Item | Recyclable part number | Material code         | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A    | 521206000900           | Printed circuit board |                       | 1        |

# 650700080203

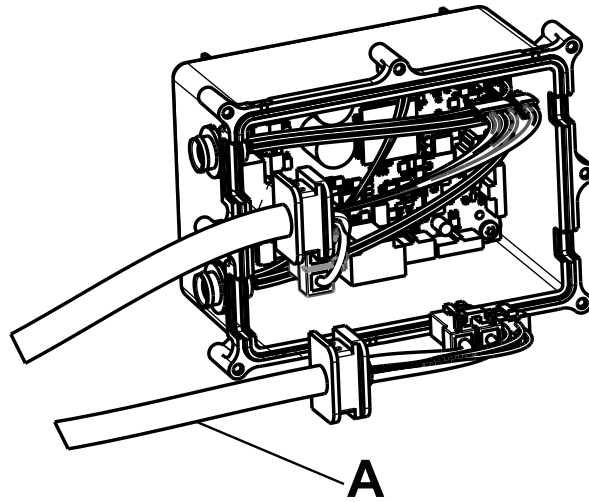
Rev AG



| Item | Recyclable part number | Material code         | Important information | Quantity |
|------|------------------------|-----------------------|-----------------------|----------|
| A    | 650700080830           | Printed circuit board |                       | 1        |

650700080860

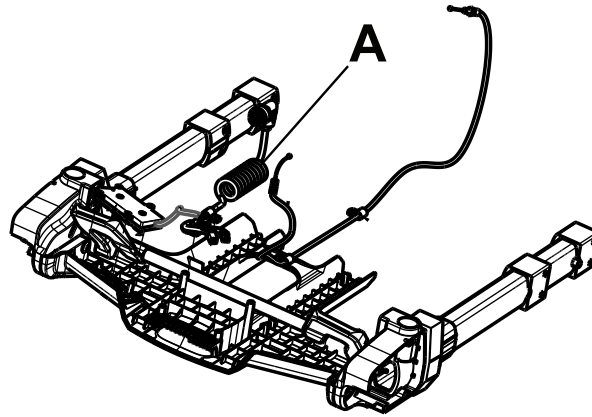
Rev AF



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080860           | External electrical cable |                       | 1        |

# 650700080862

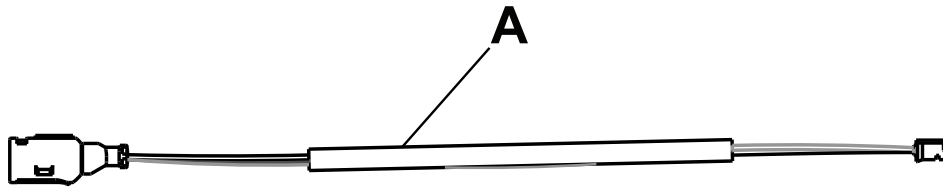
Rev AG



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080862           | External electrical cable |                       | 1        |

# 650700080863

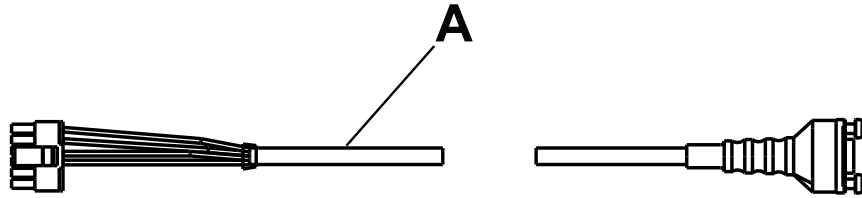
Rev AG



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080863           | External electrical cable |                       | 1        |

# 650700080864

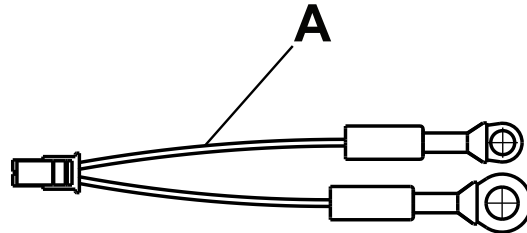
Rev AD



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080864           | External electrical cable |                       | 1        |

# 650700080865

Rev AE

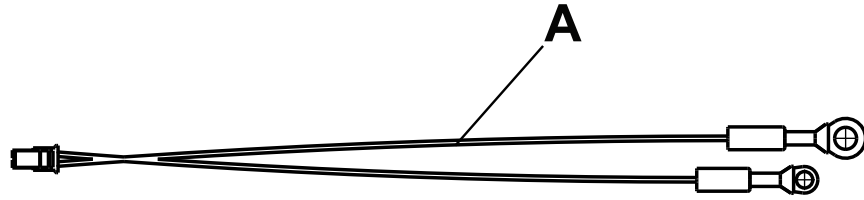


| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080865           | External electrical cable |                       | 1        |



# 650700080866

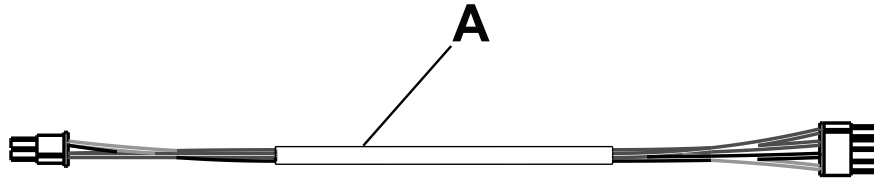
Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080866           | External electrical cable |                       | 1        |

# 650700080867

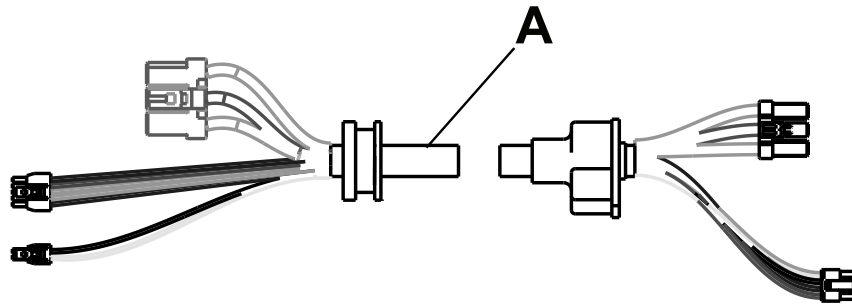
Rev AD



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080867           | External electrical cable |                       | 1        |

# 650700080868

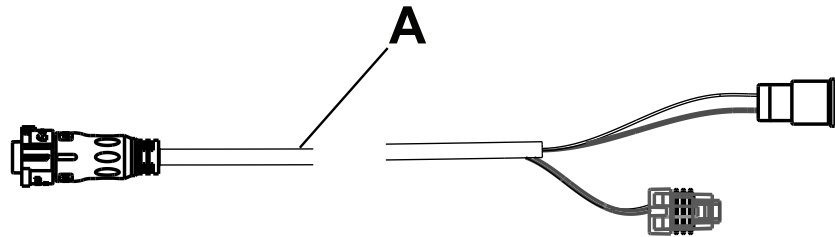
Rev AH



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080868           | External electrical cable |                       | 1        |

# 650700080869

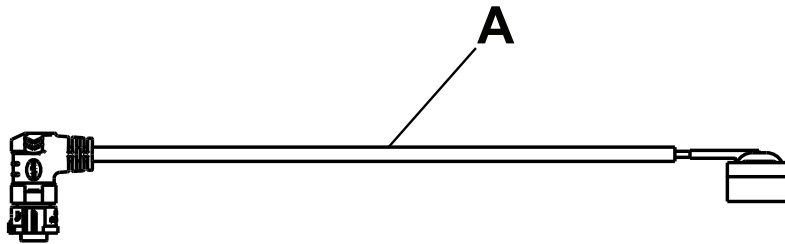
Rev AJ



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080869           | External electrical cable |                       | 1        |

# 650700080870

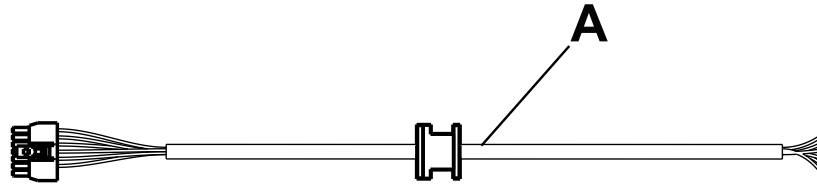
Rev AG



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080870           | External electrical cable |                       | 1        |

# 650700080871

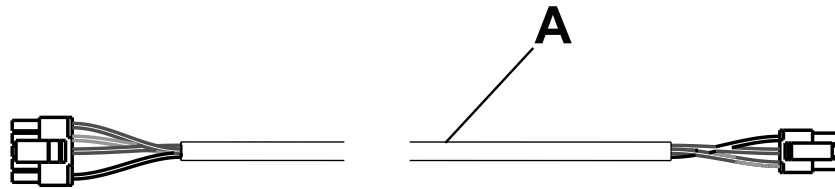
Rev AE



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080871           | External electrical cable |                       | 1        |

# 650700080872

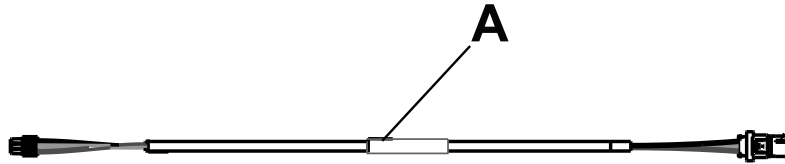
Rev AD



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080872           | External electrical cable |                       | 1        |

# 650700080873

Rev AE

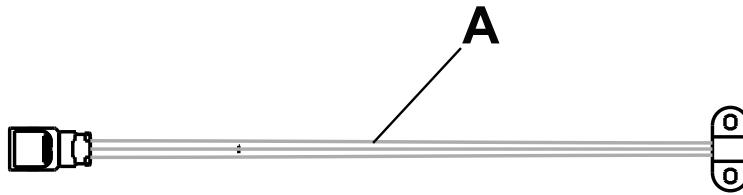


| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080873           | External electrical cable |                       | 1        |



# 650700080875

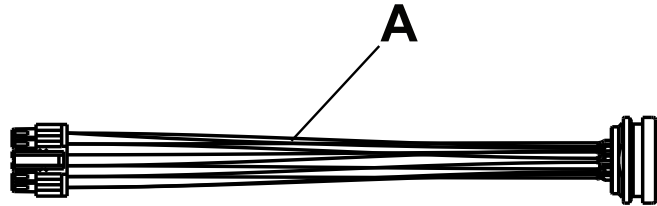
Rev AE



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080875           | External electrical cable |                       | 1        |

# 650700080876

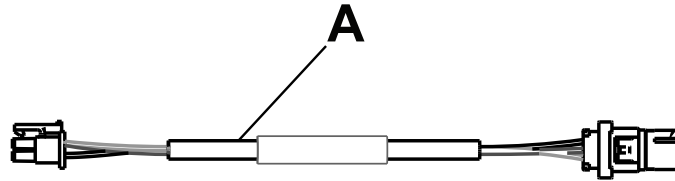
Rev AD



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080876           | External electrical cable |                       | 1        |

# 650700080877

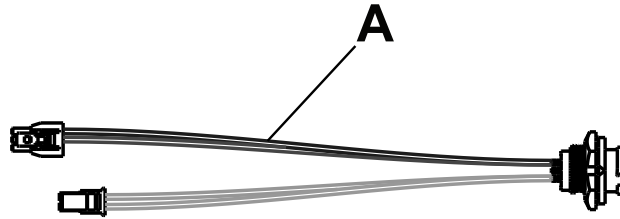
Rev AD



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080877           | External electrical cable |                       | 1        |

# 650700080878

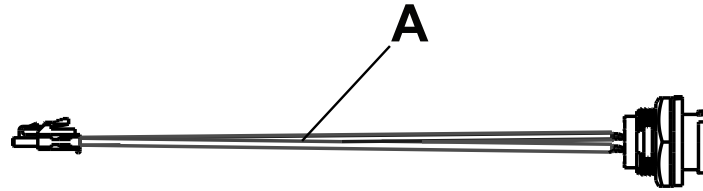
Rev AB



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080878           | External electrical cable |                       | 1        |

# 650700080879

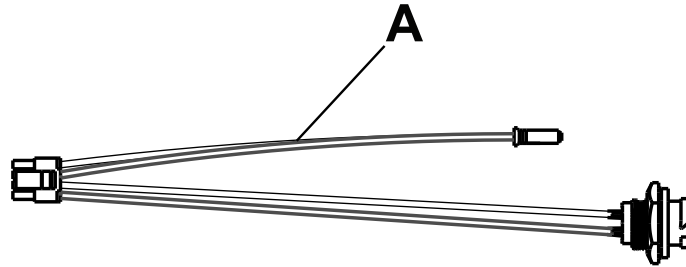
Rev AA



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080879           | External electrical cable |                       | 1        |

# 650700080880

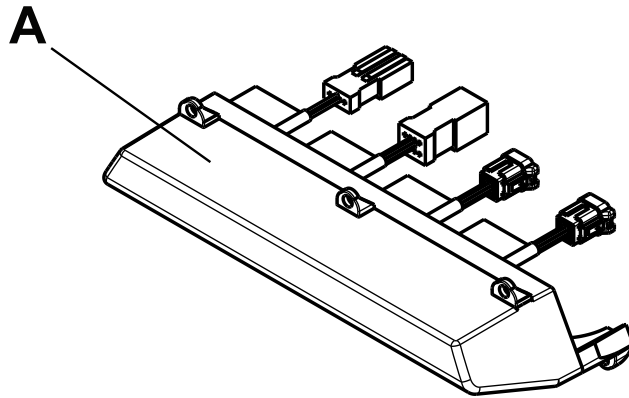
Rev AB



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080880           | External electrical cable |                       | 1        |

650700080890

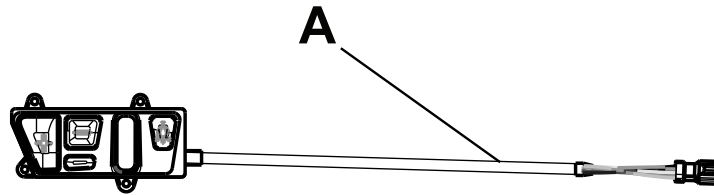
Rev AG



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080890           | External electrical cable |                       | 1        |

# 650700080891

Rev AD

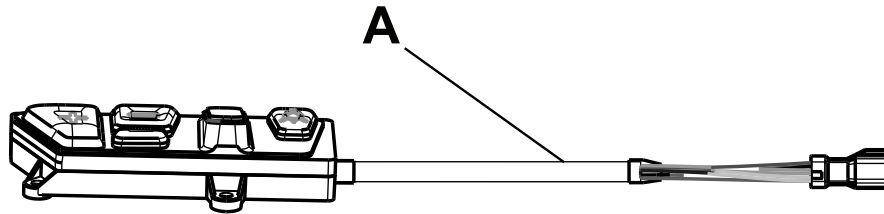


| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080891           | External electrical cable |                       | 1        |



# 650700080892

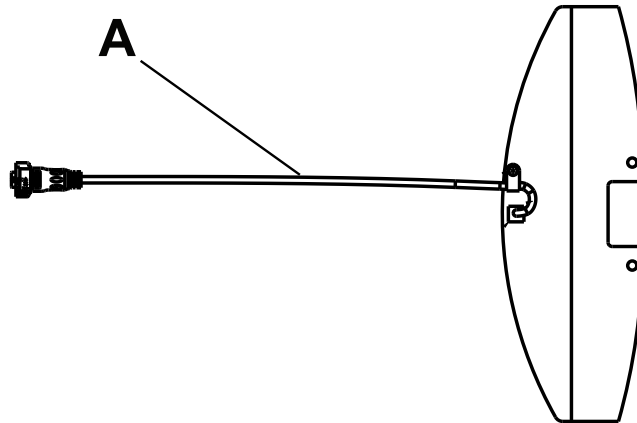
Rev AD



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080892           | External electrical cable |                       | 1        |

650700080893

Rev AC



| Item | Recyclable part number | Material code             | Important information | Quantity |
|------|------------------------|---------------------------|-----------------------|----------|
| A    | 650700080893           | External electrical cable |                       | 1        |





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